FCC SAR Test Report

FCC ID: R9C-CPH2127

Project No.	:	2006C121
Equipment	:	Mobile Phone
Brand Name	:	OPPO
Test Model	:	CPH2127
Series Model	:	N/A
Date of Receipt	:	Jun. 09, 2020
Date of Test	:	Jul. 20, 2020 ~ Aug. 02, 2020
Issued Date	:	Aug. 05, 2020
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20200619120, DG20200619119, DG20200619121, DG2020061224
Standard(s)	:	Please refer to page 2.
Applicant	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO. 18 HaiBin Road, Wusha Village, Chang An Town, DongGuan City, Guangdong, China
Manufacturer	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO. 18 HaiBin Road, Wusha Village, Chang An Town, DongGuan City, Guangdong, China
Factory	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO. 18 HaiBin Road, Wusha Village, Chang An Town, DongGuan City, Guangdong, China

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

Seven Lu

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Certificate #5123.02

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Standard(s) : **ANSI Std C95.1-1992** Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz - 300 GHz. (IEEE Std C95.1-1991)

IEEE Std 1528-2013 Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

KDB941225 D01 3G SAR Procedures v03r01
KDB941225 D05 SAR for LTE Devices v02r05
KDB941225 D06 Hotspot Mode V02r01
KDB447498 D01 General RF Exposure Guidance v06
KDB648474 D04 Handset SAR v01r03
KDB248227 D01 802.11 Wi-Fi SAR v02r02
KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB865664 D02 SAR Reporting v01r02
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).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** 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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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 05, 2020

1. RF EMISSIONS MEASUREMENT

1.1 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, Shixia, Dalang Town, Dongguan, Guangdong, China.

1.2 MEASUREMENT UNCERTAINTY

Note: Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone			
Brand Name	OPPO			
Model Name	CPH2127			
S/N	Sample 1	879adefc		
	Sample 2	b3defb73		
	Sample 3	a311af9f		
	Sample 4	17902dcc		
Hardware Version	11			
Software Version	ColorOS V7.2			
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)	RX (MHz)	
	GSM850	824~849	869~894	
	GSM1900	1850~1910	1930~1990	
	UMTS B2	1850~1910	1930~1990	
	UMTS B4	1710~1755	2110~2155	
	UMTS B5	824~849	869~894	
	LTE B2	1850~1910	1930~1990	
	LTE B4	1710~1755	2110~2155	
	LTE B5	824~849	869~894	
	LTE B7	2500~2570	2620~2690	
	LTE B12	699~716	729~746	
	LTE B17	704~716	734~746	
	LTE B26	814~849	859~894	
	LTE B66	1710~1780	2110~2180	
	LTE B38	2570~2620		
	LTE B41	2535~2655		
	Bluetooth	2400~2483.5		
	2.4G WLAN	2400~2483.5		
	5.2G WLAN	5150~5250		
	5.3G WLAN	5250~5350		
	5.6G WLAN	5470~5725		
	5.8G WLAN	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			
GSM Device class	Class B				
HSDPA UE Category	24				
HSUPA UE Category	6				
DC-HSDPA Category	24				
HSPA+ Category	6				
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 B2/4/5/7/12/17/26/38/41/66)				
Test Channels (low-mid-high)	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)				
	23060-23095-23130 (LTE B12 BW=10MHz)				
	23780-23790-23800 (LTE B17 BW=10MHz)				
	26765-26865-26965 (LTE B26 BW=15MHz)				
	37850-38000-38150 (LTE B38 BW=20MHz)				
	40140-40440-40840-41140 (LTE B41 BW=20MHz)				
	132072-132322-132572 (LTE B66 BW=20MHz)				
	0-39-78 (BT)				
	0-19-39 (BLE)				
	1-6-11 (2.4G WiFi 802.11b/g/n HT20)				
	5G WiFi	5.2G	5.3G	5.6G	5.8G
	802.11a/n HT20/ ac VHT20	36-40-44-48	52-56-60-64	100-104-108-112-116-132-136-140	149-153-157-161-165
	802.11n HT40/ ac VHT40	38-46	54-62	102-110-118-126-134	151-159
	802.11ac VHT80	42	58	106-122	155

Antenna Gain	Band	Main Antenna(dBi)	Second Antenna(dBi)	WiFi antenna(dBi)
	GSM 850	-3.70	-8.70	/
	GSM 1900	-0.78	-0.57	/
	UMTS B2	-3.70	-8.70	/
	UMTS B4	-3.70	-8.70	/
	UMTS B5	-3.70	-8.70	/
	LTE B2	-2.20	-0.50	/
	LTE B4	-3.80	-2.09	/
	LTE B5	-3.70	-8.70	/
	LTE B7	-2.20	-0.79	/
	LTE B12	-5.50	-11.60	/
	LTE B17	-5.20	-11.30	/
	LTE B26	-3.80	-8.60	/
	LTE B38	-3.50	-1.60	/
	LTE B41	-1.50	-1.50	/
	LTE B66	-3.60	-1.90	/
	Bluetooth	/	/	-3.00
	WLAN 2.4G	/	/	-3.00
	WLAN 5G	/	/	-3.00
Other Information				
Battery	Power Rating	3.87Vdc, 4890mAh/18.92Wh		
	Factory / Model	1# TWS / BLP805 (MA-P805-018703454472)		
		2# Sunwoda / BLP805 (XW-P805-019)		
		3# Desay / BLP805 (DG-P805-016)		
		4# Desay / BLP805 (DA-P805-016)		
		5# NVT / BLP805 (NA-P805-01)		
With Earphone(Yes/No)	Yes			

2.2 STATEMENT OF COMPLIANCE

Mode	Highest Reported Head SAR-1g (W/kg)	Highest Reported Body-worn (15mm) SAR-1g (W/kg)	Highest Reported Hotspot (10mm) SAR-1g (W/kg)	Highest Reported Product Specific (0mm) SAR-10g (W/kg)
GSM850	0.79	0.19	0.25	/
GSM1900	0.10	0.25	0.60	/
UMTS B2	0.93	0.35	0.78	/
UMTS B4	0.74	0.39	0.71	/
UMTS B5	1.07	0.21	0.28	/
LTE B2	0.93	0.54	0.87	/
LTE B4	1.06	0.22	0.67	/
LTE B5	0.56	0.20	0.28	/
LTE B7	1.07	0.68	1.08	/
LTE B12	0.11	0.22	0.22	/
LTE B17	/	/	/	/
LTE B26	0.38	0.14	0.17	/
LTE B38	0.69	0.58	0.90	/
LTE B41	0.48	0.57	0.80	/
LTE B66	0.80	0.24	0.66	/
2.4G WLAN	0.27	0.36	0.58	/
5.2G WLAN	/	/	0.59	/
5.3G WLAN	0.27	0.68	/	0.68
5.6G WLAN	0.21	0.75	/	0.57
5.8G WLAN	0.13	0.46	0.21	/
Bluetooth	0.23	0.06	/	/

Note:
1) The highest reported SAR for head, body-worn, hotspot and product Specific SAR-10g are 1.07W/kg, 0.75W/kg, 1.08W/kg and 0.68W/kg respectively.
2) The highest simultaneous SAR are 1.19W/kg(head), 1.43W/kg(body-worn), 1.48W/kg(hotspot) and 0.68W/kg(product specific 10g SAR) respectively.

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 C95.1:1992/IEEE C95.1:1991, the NCRP Report Number 86 for uncontrolled environment and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.
2) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):
SAR for LTE B17 (Frequency range: 704-716 MHz) is covered by LTE B12 (Frequency range: 699-716MHz) due to similar frequency range, same maximum tune up limit and same maximum channel bandwidth.
Therefore, SAR tests for LTE B17 is not required.

2.3 LABORATORY ENVIRONMENT

Temperature	Min. = 18ºC, Max. = 25ºC
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.	

2.4 MAIN TEST INSTRUMENTS

Item	Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Interval
1	Data Acquisition Electronics	Speag	DAE4	1390	Oct. 29, 2019	1 Year
2	Data Acquisition Electronics	Speag	DAE3	420	Jun. 22, 2020	1 Year
3	E-field Probe	Speag	ES3DV3	3162	May 09, 2020	1 Year
4	E-field Probe	Speag	EX3DV4	7544	Sep. 09, 2019	1 Year
5	System Validation Dipole	Speag	D750V3	1095	Jun. 05, 2018	3 Years
6	System Validation Dipole	Speag	D835V2	4d160	Jun. 05, 2018	3 Years
7	System Validation Dipole	Speag	D1750V2	1101	Jun. 07, 2018	3 Years
8	System Validation Dipole	Speag	D1900V2	5d179	Jun. 07, 2018	3 Years
9	System Validation Dipole	Speag	D2450V2	919	Jun. 11, 2018	3 Years
10	System Validation Dipole	Speag	D2600V2	1067	Jun. 11, 2018	3 Years
11	System Validation Dipole	Speag	D5GHzV2	1160	Jun. 20, 2018	3 Years
12	Twin Sam Phantom	Speag	Twin Sam Phantom V5.0	1469	N/A	N/A
13	Twin Sam Phantom	Speag	Twin Sam Phantom V5.0	1784	N/A	N/A
14	Twin Sam Phantom	Speag	Twin Sam Phantom V5.0	1896	N/A	N/A
15	Radio Communication Analver	Anritsu	MT8821C	6261915479	Sep. 29, 2019	1 Year
16	Radio Communication Analver	Anritsu	MT8820C	6201525877	Aug. 03, 2019	1 Year
17	Wideband Radio Communication Tester	R&S	CMW500	104462	Aug. 10, 2019	1 Year
18	Power Amplifier	Mini-Circuits	ZHL-42W+	QA1333003	Mar. 10, 2020	1 Year
19	Power Amplifier	Mini-Circuits	ZVE-8G+	520701341	Mar. 10, 2020	1 Year
20	DC Source metter	Iteck	IT6154	006104126768201001	Aug. 03, 2019	1 Year
21	Signal Analyzer	R&S	FSV7	103120	Sep. 29, 2019	1 Year
22	Vector Network Analyzer	Anritsu	MS46522B	1538101	Sep. 29, 2019	1 Year
23	Signal Generator	R&S	SMF100A	101214	Feb. 29, 2020	1 Year
24	Smart Power Sensor	R&S	NRP-Z21	102209	Mar. 07, 2020	1 Year
25	Dielectric Assessment Kit	Speag	DAK-3.5	1226	N/A	N/A
26	Directional Coupler	Woken	TS-PCC0M-05	107090019	Mar. 01, 2020	1 Year
27	Coupler	Woken	0110A05601O-10	COM5BNW1A2	Mar. 01, 2020	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.

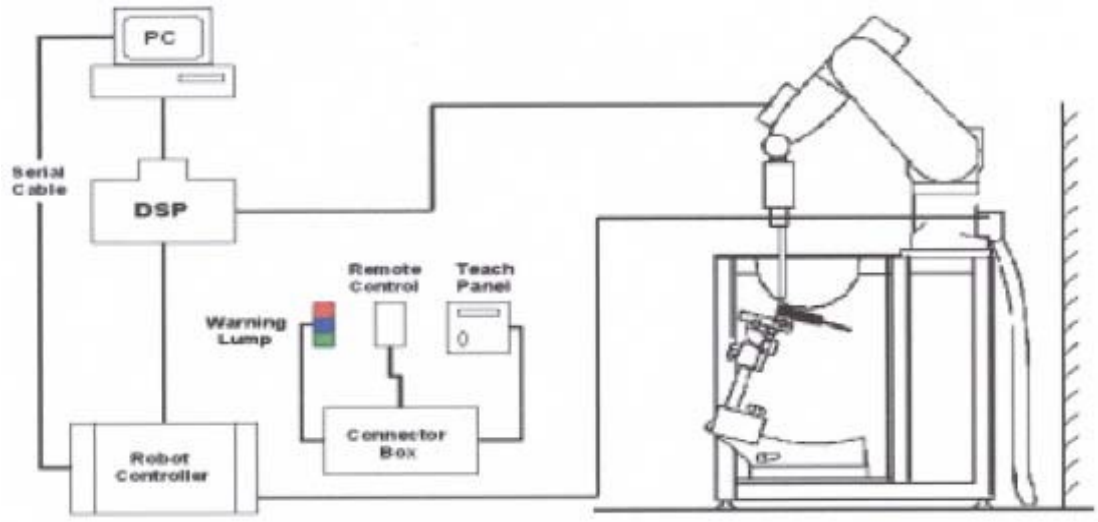
3. SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1 SAR MEASUREMENT SET-UP

The DASY5 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 DASY5 measurement server.
6. TheDASY5 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
7. DASY5 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 DASY5 E-FIELD PROBE SYSTEM

The SAR measurements were conducted with the dosimetric probe EX3DV4 and ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

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	10 MHz to 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity:± 0.2dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.0 mm

ES3DV3

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	10 MHz to 4 GHz Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	5 µW/g to > 100 mW/g Linearity:± 0.2dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 4 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.0 mm

E-field Probe

3.2.2 E-FIELD PROBE CALIBRATION

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than ±10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB. 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 bellow 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.

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

Where: Δt = Exposure time (30 seconds),

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

ΔT = Temperature increase due to RF exposure.

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

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m3).

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 light weight 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 and SAM v6.0 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 IEEE 1528 and IEC 62209-1. 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 evaporation of the liquid. 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
Aailable	Special

3.2.4 SCANNING PROCEDURE

The DASY5 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. ± 5 %.

The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1mm). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within ± 30°.)

- Area Scan

The “area scan” measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension (≤2GHz), 12 mm in x- and y- dimension (2-4 GHz) and 10mm in x- and y- dimension (4-6GHz). If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation.

- Zoom Scan

A “zoom scan” measures the field in a volume around the 2D peak SAR value acquired in the previous “coarse” scan. This is a fine grid with maximum scan spatial resolution: Δx_{zoom}, Δy_{zoom}≤2GHz -≤8mm, 2-4GHz -≤5 mm and 4-6 GHz-≤4mm; Δz_{zoom}≤3GHz -≤5 mm, 3-4 GHz-≤4mm and 4-6GHz-≤2mm where the robot additionally moves the probe along the z-axis away from the bottom of the Phantom. DASY is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in Appendix B. Test results relevant for the specified standard (see chapter 1.4.) are shown in table form in chapter 7.2.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2 mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth.

The following table summarizes the area scan and zoom scan resolutions per FCC KDB 865664D01:

Frequency	Maximun Area Scan resolution (Δx_{area}, Δy_{area})	Maximun Zoom Scan spatial resolution (Δx_{Zoom}, Δy_{Zoom})	Maximun Zoom Scan spatial resolution			Minimum zoom scan volume (x,y,z)
			Uniform Grid	Graded Grad		
			$\Delta z_{Zoom}(n)$	$\Delta z_{Zoom}(1)$*	$\Delta z_{Zoom}(n>1)$*	
≤2GHz	≤15mm	≤8mm	≤5mm	≤4mm	≤1.5*Δz_{Zoom}(n-1)	≥30mm
2-3GHz	≤12mm	≤5mm	≤5mm	≤4mm	≤1.5*Δz_{Zoom}(n-1)	≥30mm
3-4GHz	≤12mm	≤5mm	≤4mm	≤3mm	≤1.5*Δz_{Zoom}(n-1)	≥28mm
4-5GHz	≤10mm	≤4mm	≤3mm	≤2.5mm	≤1.5*Δz_{Zoom}(n-1)	≥25mm
5-6GHz	≤10mm	≤4mm	≤2mm	≤2mm	≤1.5*Δz_{Zoom}(n-1)	≥22mm

3.2.5 SPATIAL PEAK SAR EVALUATION

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 5 x 5 x 7 points (with 8mm horizontal resolution) or 7 x 7 x 7 points (with 5mm horizontal resolution) or 8 x 8 x 7 points (with 4mm horizontal resolution). The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting “Graph Evaluated”.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computer mathematic, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computer mathematic, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY5 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

3.2.6 DATA STORAGE AND EVALUATION

3.2.6.1 Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “DAE”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.2.7 DATA EVALUATION BY SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	Sensitivity	Normi, a_{i0}, a_{i1}, a_{i2}
	Conversion factor	$ConvF_i$
	Diode compression point	Dcp_i
Device parameters:	Frequency	f
	Crest factor	cf
Media parameters:	Conductivity	
	Density	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multi meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With	V_i = compensated signal of channel i	(i = x, y, z)
	U_i = input signal of channel i	(i = x, y, z)
	cf = crest factor of exciting field	(DASY parameter)
	dcp_i = diode compression point	(DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$

With V_i = compensated signal of channel i (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i (i = x, y, z)

$[mV/(V/m)^2]$ for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_X^2 + E_Y^2 + E_Z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot})^2 \cdot \sigma / (\rho \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

= conductivity in [mho/m] or [Siemens/m]

= equivalent tissue density in g/cm^3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

With P_{pwe} = equivalent power density of a plane wave in mW/cm^2

E_{tot} = total field strength in V/m

H_{tot} = total magnetic field strength in A/m

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 of the dielectic parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within ± 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 2450	-	45.0	-	0.1	-	-	54.9	-
Head 2600	-	45.1	-	0.1	-	-	54.8	-
Head 5G	-	-	-	-	-	17.2	65.5	17.3

Salt: 99+% Pure Sodium Chloride; Sugar: 98+% Pure Sucrose; Water: De-ionized, 16M + resistivity
HEC: Hydroxyethyl Cellulose; DGBE: 99+% Di(ethylene glycol) butyl ether,[2-(2-butoxyethoxy)ethanol]
Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

Tissue Verification									
Tissue Type	Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ) (%)	Deviation Permittivity (εr) (%)	Date
Head	750	22.2	0.893	41.425	0.89	41.9	0.34	-1.13	Jul. 26, 2020
Head	750	22.3	0.892	41.542	0.89	41.9	0.22	-0.85	Jul. 27, 2020
Head	750	22.3	0.892	41.542	0.89	41.9	0.22	-0.85	Jul. 27, 2020
Head	835	22.4	0.908	42.878	0.90	41.5	0.89	3.32	Jul. 24, 2020
Head	835	22.3	0.885	41.978	0.90	41.5	-1.67	1.15	Jul. 25, 2020
Head	835	22.4	0.885	41.978	0.90	41.5	-1.67	1.15	Jul. 25, 2020
Head	835	22.3	0.884	42.716	0.90	41.5	-1.78	2.93	Jul. 31, 2020
Head	835	22.1	0.881	43.208	0.90	41.5	-2.11	4.12	Aug. 01, 2020
Head	835	22.3	0.889	43.222	0.90	41.5	-1.22	4.15	Aug. 02, 2020
Head	1750	22.4	1.321	40.183	1.37	40.1	-3.58	0.21	Jul. 22, 2020
Head	1750	22.4	1.335	39.769	1.37	40.1	-2.55	-0.83	Jul. 23, 2020
Head	1750	22.4	1.400	39.470	1.37	40.1	2.19	-1.57	Jul. 26, 2020
Head	1750	22.1	1.320	40.141	1.37	40.1	-3.65	0.10	Jul. 29, 2020
Head	1750	22.3	1.320	40.130	1.37	40.1	-3.65	0.07	Jul. 31, 2020
Head	1900	22.4	1.463	39.541	1.40	40.0	4.50	-1.15	Jul. 22, 2020
Head	1900	22.3	1.379	39.607	1.40	40.0	-1.50	-0.98	Jul. 23, 2020
Head	1900	22.2	1.379	39.612	1.40	40.0	-1.50	-0.97	Jul. 27, 2020
Head	1900	22.3	1.463	39.482	1.40	40.0	4.50	-1.30	Jul. 31, 2020
Head	2450	22.3	1.859	38.018	1.80	39.2	3.28	-3.02	Jul. 23, 2020
Head	2450	22.4	1.874	38.304	1.80	39.2	4.11	-2.29	Aug. 02, 2020
Head	2600	22.4	2.024	38.655	1.96	39.0	3.27	-0.88	Jul. 21, 2020
Head	2600	22.1	2.046	37.741	1.96	39.0	4.39	-3.23	Jul. 24, 2020
Head	2600	22.1	2.046	37.741	1.96	39.0	4.39	-3.23	Jul. 24, 2020
Head	2600	22.2	2.017	37.678	1.96	39.0	2.91	-3.39	Jul. 25, 2020
Head	2600	22.4	2.048	37.715	1.96	39.0	4.49	-3.29	Jul. 30, 2020
Head	5200	23.2	4.781	35.400	4.66	36.0	2.60	-1.67	Jul. 20, 2020
Head	5200	21.9	4.806	35.620	4.66	36.0	3.13	-1.06	Jul. 28, 2020
Head	5300	22.0	4.899	35.209	4.76	35.9	2.92	-1.92	Jul. 20, 2020
Head	5300	21.9	4.926	35.427	4.76	35.9	3.49	-1.32	Jul. 28, 2020
Head	5500	22.0	5.120	34.811	4.96	35.6	3.23	-2.22	Jul. 20, 2020
Head	5500	21.9	5.150	35.024	4.96	35.6	3.83	-1.62	Jul. 28, 2020
Head	5600	22.0	5.224	34.629	5.07	35.5	3.04	-2.45	Jul. 20, 2020
Head	5600	21.9	5.253	34.836	5.07	35.5	3.61	-1.87	Jul. 28, 2020
Head	5800	22.0	5.437	34.332	5.27	35.3	3.17	-2.74	Jul. 20, 2020
Head	5800	21.9	5.467	34.539	5.27	35.3	3.74	-2.16	Jul. 28, 2020

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) KDB 865664 was ensured to be applied for probe calibration frequencies greater than or equal to 50MHz of the EUT frequencies.
3) 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

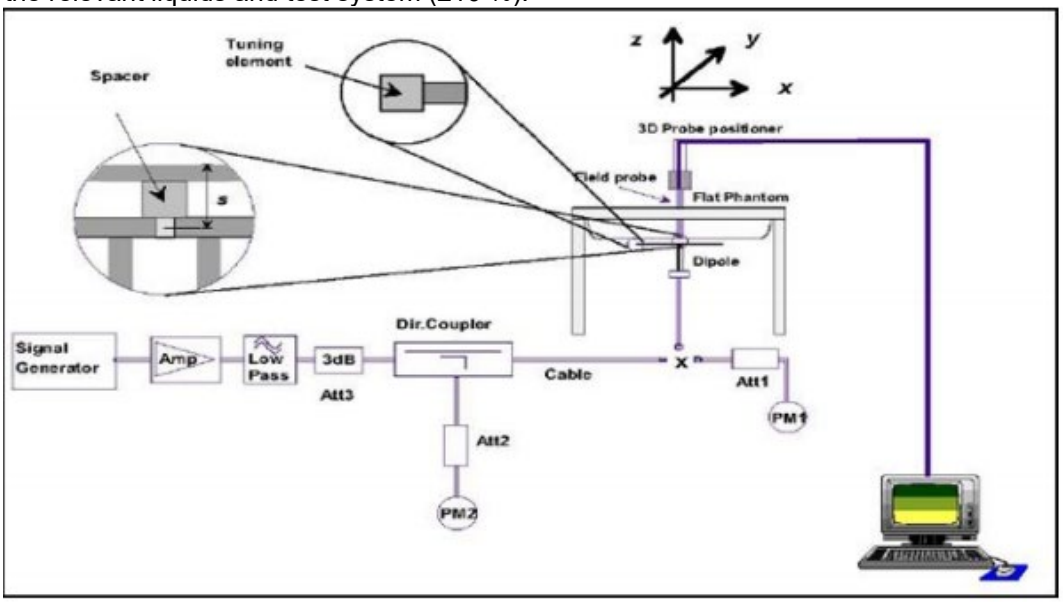
The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE Std 1528 (described above). The following table shows system check results for all frequency bands 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 (%)	Dipole S/N
Head	Jul. 26, 2020	750	8.47	2.16	8.64	2.01	1095
Head	Jul. 27, 2020	750	8.47	2.08	8.32	-1.77	1095
Head	Jul. 27, 2020	750	8.47	2.17	8.68	2.48	1095
Head	Jul. 24, 2020	835	9.23	2.28	9.12	-1.19	4d160
Head	Jul. 25, 2020	835	9.23	2.23	8.92	-3.36	4d160
Head	Jul. 25, 2020	835	9.23	2.28	9.12	-1.19	4d160
Head	Jul. 31, 2020	835	9.23	2.27	9.08	-1.63	4d160
Head	Aug. 01, 2020	835	9.23	2.36	9.44	2.28	4d160
Head	Aug. 02, 2020	835	9.23	2.38	9.52	3.14	4d160
Head	Jul. 22, 2020	1750	37.00	9.14	36.56	-1.19	1101
Head	Jul. 23, 2020	1750	37.00	9.24	36.96	-0.11	1101
Head	Jul. 26, 2020	1750	37.00	9.68	38.72	4.65	1101
Head	Jul. 29, 2020	1750	37.00	9.29	37.16	0.43	1101
Head	Jul. 31, 2020	1750	37.00	8.80	35.20	-4.86	1101
Head	Jul. 22, 2020	1900	39.50	10.10	40.40	2.28	5d179
Head	Jul. 23, 2020	1900	39.50	9.51	38.04	-3.70	5d179
Head	Jul. 27, 2020	1900	39.50	9.61	38.44	-2.68	5d179
Head	Jul. 31, 2020	1900	39.50	10.40	41.60	5.32	5d179
Head	Jul. 23, 2020	2450	52.10	13.50	54.00	3.65	919
Head	Aug. 02, 2020	2450	52.10	12.90	51.60	-0.96	919
Head	Jul. 21, 2020	2600	56.10	14.10	56.40	0.53	1067
Head	Jul. 24, 2020	2600	56.10	14.50	58.00	3.39	1067
Head	Jul. 24, 2020	2600	56.10	14.20	56.80	1.25	1067
Head	Jul. 25, 2020	2600	56.10	14.00	56.00	-0.18	1067
Head	Jul. 30, 2020	2600	56.10	14.30	57.20	1.96	1067
Head	Jul. 20, 2020	5200	75.30	7.40	74.00	-1.73	1160
Head	Jul. 28, 2020	5200	75.30	7.47	74.70	-0.80	1160
Head	Jul. 20, 2020	5300	76.80	7.84	78.40	2.08	1160
Head	Jul. 28, 2020	5300	76.80	7.59	75.90	-1.17	1160
Head	Jul. 20, 2020	5500	80.80	8.17	81.70	1.11	1160
Head	Jul. 28, 2020	5500	80.80	8.48	84.80	4.95	1160
Head	Jul. 20, 2020	5600	78.60	8.25	82.50	4.96	1160
Head	Jul. 28, 2020	5600	78.60	8.10	81.00	3.05	1160
Head	Jul. 20, 2020	5800	77.90	7.78	77.80	-0.13	1160
Head	Jul. 28, 2020	5800	77.90	7.88	78.80	1.16	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 SAM 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. It is fed with a power of 250mW (below 3GHz) or 100mW (3-6GHz). To adjust this power a power meter is used.
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 (±10 %).



5. SAR MEASUREMENT VARIABILITY AND UNCERTAINTY

5.1 SAR MEASUREMENT VARIABILITY

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

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

The detailed repeated measurement results are shown in Section 7.2.

6. OPERATIONAL CONDITIONS DURING TEST

6.1 SAR TEST CONFIGURATION

6.1.1 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

6.1.2 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 ≤ ¼ 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 ≤ 1.2W/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, ΔNACK, ΔCQI = 8. The variation of the β_c /β_d ratio causes a power reduction at sub-tests 2 - 4.

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

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

Note 2 : CM=1 for β_c/β_d= 12/15, β_{hs}/β_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 β_c = 11/15 and β_d = 15/15

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 ≤ ¼ 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 ≤ 1.2W/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	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_e (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ ACK, Δ NACK and Δ 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 difference

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 $\beta_d = 15/15$

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 $\beta_d = 15/15$

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

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

HSUPA UE category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading 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.

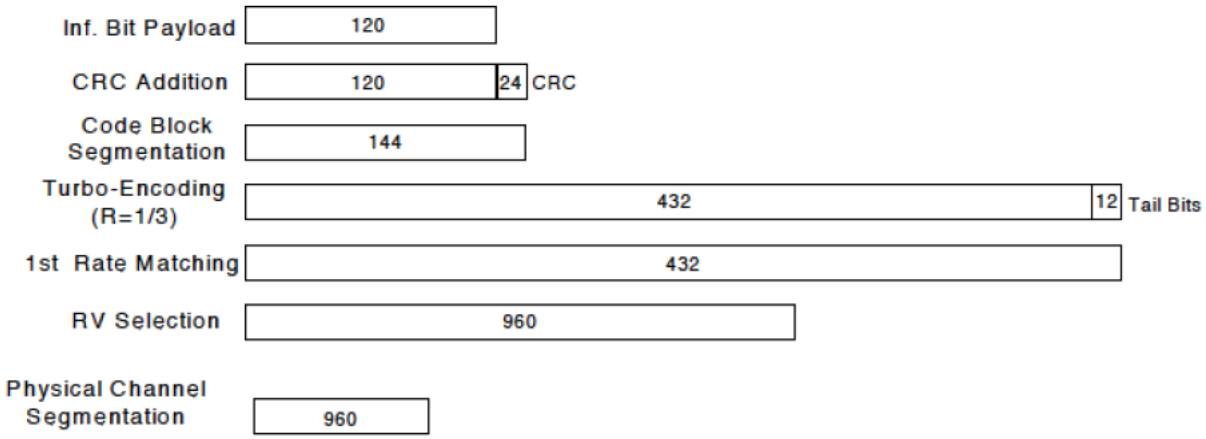


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
Note 2: CM=1 for β_c/β_d= 12/15, β_{hs}/β_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 β_c = 11/15 and β_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 (Note3)	β_d	β_{HS} (Note1)	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	$\beta_{ed}1$: 30/15 $\beta_{ed}2$: 30/15	$\beta_{ed}3$: 24/15 $\beta_{ed}4$: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{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 β_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.

6.1.3 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 > ½ 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 > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

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

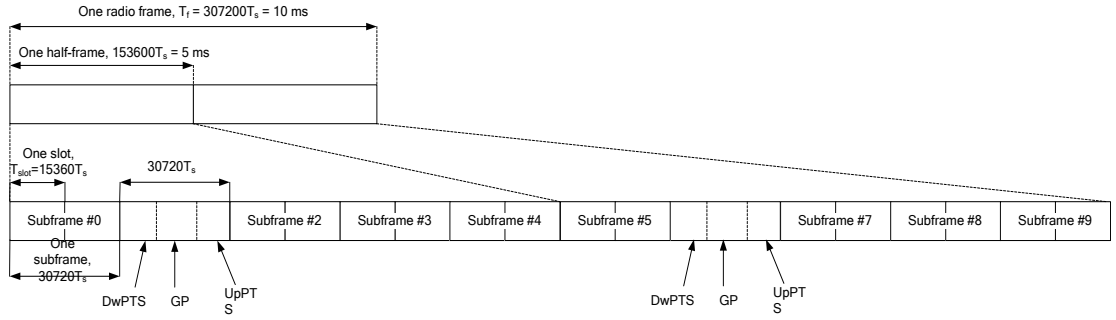


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

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:

Duty cycle =(30720Ts*Ups+Uplink Component*Specials)/(307200Ts)

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

Uplink Component=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.

Duty cycle =[(30720Ts*Ups)+ UpPTS *Specials]/(307200Ts)

And we can get different Duty cycles under different configurations:

Uplink-downlink configuratin	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
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.

6.1.4 WIFI TEST CONFIGURATION

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

2.4G

Mode	802.11b	802.11g	802.11n HT20
Duty cycle	100%		
Crest factor	1		

5G

Mode	802.11a	802.11n HT20	802.11n HT40	802.11ac HT20	802.11ac HT40	802.11ac VH80
Duty cycle	100%					
Crest factor	1					

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.

6.1.4.1 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.

6.1.4.2 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.

6.1.4.3 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.

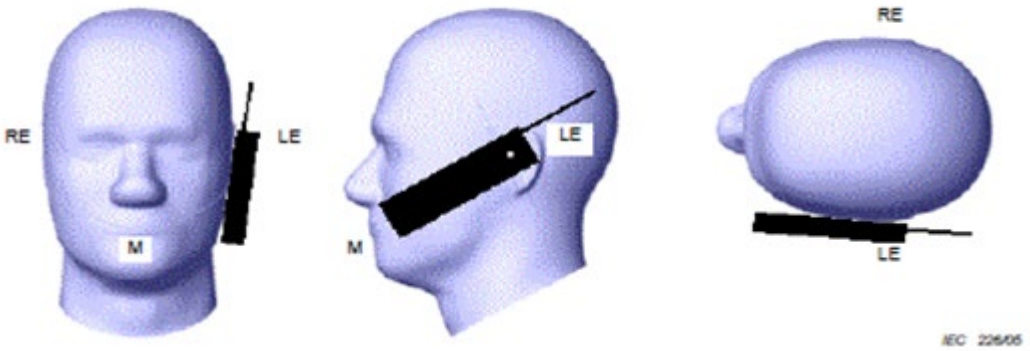
6.1.4.4 Initial test configuration procedure

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.

6.2 TEST POSITION

6.2.1 HEAD TEST CONFIGURATION

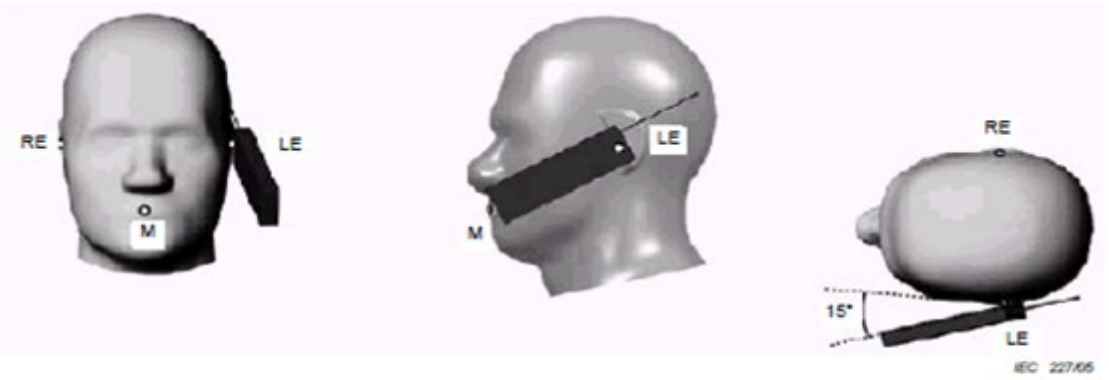
Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.



Key	
M	Mouth reference point
LE	Left ear reference point (ERP)
RE	Right ear reference point (ERP)

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.



Key	
M	Mouth reference point
LE	Left ear reference point (ERP)
RE	Right ear reference point (ERP)

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.

6.2.2 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.

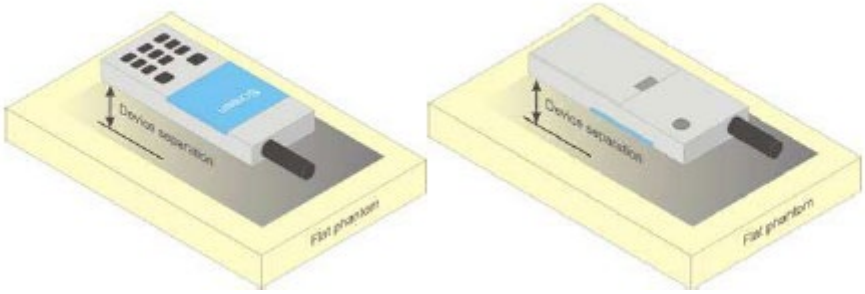


Figure 3 Test positions for body-worn device

6.2.3 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 > 9cm×5cm, 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.

6.2.4 PRODUCT SPECIFIC 10-G SAR TEST CONFIGURATION

Per KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0cm or an overall diagonal dimension > 16.0cm 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 ≤ 25mm 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 > 1.2W/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 location of the antenna inside EUT and the test position judgment of Hotspot/Specific 10g SAR, please refer to Appendix E.

6.3 GENERAL DESCRIPTION OF TEST PROCEDURES

Connection to the EUT is established via air interface with Anritsu MT8820C & Anritsu MT8821C & R&S CMW500, and the EUT is set to maximum output power by Anritsu MT8820C & Anritsu MT8821C & 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.

6.4 RECEIVER DETECTION MECHANISM

6.4.1 GENERAL DESCRIPTION OF RECEIVER DETECTION MECHANISM OF 2G&3G&4G

The device supports the receiver detection mechanism. The main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience.
This device uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G antenna accordingly.

Table: Summery of Receiver detection mechanism

Antenna	Receiver on (Head)	Receiver off (Body-worn & Hotspot & Specific 10g SAR)
2G&3G&4G Main Ant.	Power Level A1	Power Level B1
2G&3G&4G Second Ant.	Power Level A2	Power Level B2

Main Antenna Max Power (dBm)															
Power scenario	GSM 850	GSM 1900	UMTS B2	UMTS B4	UMTS B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	LTE B26	LTE B38	LTE B41	LTE B66
Receiver on (Head)	33	26	23.5	23.5	24	23	24	24	23.8	24	24	24	24	24	24
Receiver off (Body-worn & Hotspot & Specific 10g SAR)	33	30.5	21.5	20.5	24	23	23.5	24	23	24	24	24	24	24	23.5

Second Antenna Max Power (dBm)															
Power scenario	GSM 850	GSM 1900	UMTS B2	UMTS B4	UMTS B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B12	LTE B26	LTE B38	LTE B41	LTE B66
Receiver on (Head)	33	28	17.5	19	24.5	18	21	24	15.5	24	24	24	18.5	16	19
Receiver off (Body-worn & Hotspot & Specific 10g SAR)	33	30.5	22	21	24.5	23	24	24	19	24	24	24	24	24	24

6.4.2 GENERAL DESCRIPTION OF RECEIVER DETECTION MECHANISM OF WIFI

Users will be in full power when using WiFi alone. When WiFi+2G/3G/4G are used simultaneously, WiFi power reduction will be triggered, i.e. WiFi will be in power level B3 state.

Antenna	WiFi Power Reduction	
	WiFi only	WiFi Antenna Simultaneous with 2G&3G&4G
WiFi Ant.	Power Level A3	Power Level B3

Power scenario	2.4G			5G (5150MHz~5250MHz)				5G (Not Support Hotspot) (5260MHz~5350MHz)			
	802.11 b	802.11 g	802.11 n20	802.11 a	802.11 n20/ ac20	802.11 n40/ ac40	802.11 ac80	802.11 a	802.11 n20/ ac20	802.11 n40/ ac40	802.11 ac80
WiFi only (Full Power)	20	19	19	19	18	17	18	19	18	17	18
Receiver on (Head)	14.5	13.5	13.5	14.5	13.5	12.5	13.5	14.5	13.5	12.5	13.5
WiFi Antenna Simultaneous with 2G&3G&4G receiver off (Body-worn & Hotspot & Specific 10g SAR)	20	19	19	12.5	11.5	10.5	11.5	12.5	11.5	10.5	11.5

Power scenario	2.4G		5G (Not Support Hotspot) (5500MHz~5700MHz)				5G (5750MHz~5850MHz)			
	BT	BLE	802.11 a	802.11 n20/ ac20	802.11 n40/ ac40	802.11 ac80	802.11 a	802.11 n20/ ac20	802.11 n40/ ac40	802.11 ac80
WiFi only (Body-worn & Hotspot)	13	8.5	19	18	17	18	16.5	16.5	16.5	16.5
Receiver on (Head)	13	8.5	14.5	13.5	12.5	13.5	12	12	12	12
WiFi Antenna Simultaneous with 2G&3G&4G receiver off (Hotspot & Specific 10g SAR)	13	8.5	12.5	11.5	10.5	11.5	10	10	10	10

6.4.3 MORE DETAILS INFORMATION FOLLOWINGS

For head SAR test,
1) Standalone Head SAR of 2G&3G&4G Second Antenna is evaluated at power level A1;
2) Standalone Head SAR of 2G&3G&4G Main Antenna is evaluated at power level A2;
3) Standalone Head SAR of WiFi Antenna receiver on is evaluated at power level A3;
4) Simultaneous Head SAR of WiFi Antenna with 2G&3G&4G is evaluated at power level B3;
Note: As the receiver only works in voice mode when the user is making a call in head scenario, In LTE Data/ WCDMA RMC (Data) mode, the mobile phone won't ring and answer, it just can be connected with the test instrument. Therefore, for Head SAR test of UMTS and LTE, we're planning to test LTE Data/ WCDMA RMC (Data) mode through triggering the receiver on by XML test scripts in order to simulate the users' scene (LTE VOIP, WCDMA VOIP).

For body-worn & hotspot & specific 10g SAR test,
1) Standalone body-worn & hotspot & specific 10g SAR of 2G&3G&4G Second Antenna is evaluated at power level B1;
2) Standalone body-worn & hotspot & specific 10g SAR of 2G&3G&4G Main Antenna is evaluated at power level B2;
3) Standalone body-worn & hotspot & specific 10g SAR of WiFi Antenna receiver on is evaluated at power level A3;
4) Simultaneous body-worn & hotspot & specific 10g SAR of WiFi Antenna with 2G&3G&4G is evaluated at power level B3;
Note: As the receiver will not work during body-worn voice mode operation with the headset connected. When the receiver is off, the power level with headset connected is the same as those without headset connected. So body-worn & hotspot SAR with headset is tested at the body-worn & hotspot & specific 10g SAR worst case without headset connected at the same power level.

7. TEST RESULT

7.1 CONDUCTED POWER RESULTS

7.1.1 CONDUCTED POWER MEASUREMENTS OF GSM

1. Conducted power measurements of GSM850

Main Antenna_Receiver on

GSM850		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			128/ 824.2	190/ 836.6	251/ 848.8		128/ 824.2	190/ 836.6	251/ 848.8
GSM (CS)		33.00	31.60	**31.80**	31.90	23.81	22.41	22.61	22.71
GPRS/ EDGE (GMSK)	1 Tx Slot	33.00	31.60	31.80	31.90	23.81	22.41	22.61	22.71
	2 Tx Slot	31.00	29.83	29.88	29.94	24.87	23.70	23.75	23.81
	3 Tx Slot	28.00	27.12	27.48	27.34	23.58	22.70	23.06	22.92
	4 Tx Slot	27.00	26.35	26.57	26.77	23.82	23.17	23.39	23.59
EDGE (8PSK)	1 Tx Slot	27.50	26.45	26.37	26.27	18.31	17.26	17.18	17.08
	2 Tx Slot	25.50	24.57	24.60	24.31	19.37	18.44	18.47	18.18
	3 Tx Slot	24.00	22.98	22.96	22.95	19.58	18.56	18.54	18.53
	4 Tx Slot	23.50	22.32	22.41	22.25	20.32	19.14	19.23	19.07

Main Antenna_Receiver off

GSM850		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			128/ 824.2	190/ 836.6	251/ 848.8		128/ 824.2	190/ 836.6	251/ 848.8
GSM (CS)		33.00	31.12	**31.28**	31.38	23.81	21.93	22.09	22.19
GPRS/ EDGE (GMSK)	1 Tx Slot	33.00	31.12	31.28	31.38	23.81	21.93	22.09	22.19
	2 Tx Slot	31.00	29.06	**29.34**	29.57	24.87	22.93	23.21	23.44
	3 Tx Slot	28.00	26.50	26.34	26.75	23.58	22.08	21.92	22.33
	4 Tx Slot	27.00	25.76	26.02	26.14	23.82	22.58	22.84	22.96
EDGE (8PSK)	1 Tx Slot	27.50	25.93	25.85	25.75	18.31	16.74	16.66	16.56
	2 Tx Slot	25.50	23.98	23.90	24.01	19.37	17.85	17.77	17.88
	3 Tx Slot	24.00	22.57	22.41	22.31	19.58	18.15	17.99	17.89
	4 Tx Slot	23.50	21.60	21.52	21.54	20.32	18.42	18.34	18.36

Second Antenna_Receiver on

GSM850		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			128/ 824.2	190/ 836.6	251/ 848.8		128/ 824.2	190/ 836.6	251/ 848.8
GSM (CS)		33.00	31.69	**31.85**	31.41	23.81	22.50	22.66	22.22
GPRS/ EDGE (GMSK)	1 Tx Slot	33.00	31.73	31.84	31.46	23.81	22.54	22.65	22.27
	2 Tx Slot	31.00	29.65	29.78	29.75	24.87	23.52	23.65	23.62
	3 Tx Slot	29.00	27.12	27.19	27.08	24.58	22.70	22.77	22.66
	4 Tx Slot	28.00	26.04	26.33	26.14	24.82	22.86	23.15	22.96
EDGE (8PSK)	1 Tx Slot	27.50	26.44	26.18	25.97	18.31	17.25	16.99	16.78
	2 Tx Slot	25.50	24.52	24.31	24.19	19.37	18.39	18.18	18.06
	3 Tx Slot	24.00	23.31	22.86	22.52	19.58	18.89	18.44	18.10
	4 Tx Slot	23.50	22.13	21.91	21.77	20.32	18.95	18.73	18.59

Second Antenna_Receiver off

GSM850		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			128/ 824.2	190/ 836.6	251/ 848.8		128/ 824.2	190/ 836.6	251/ 848.8
GSM (CS)		33.00	31.59	**31.70**	31.31	23.81	22.40	22.51	22.12
GPRS/ EDGE (GMSK)	1 Tx Slot	33.00	31.42	31.59	31.26	23.81	22.23	22.40	22.07
	2 Tx Slot	31.00	29.33	**29.48**	29.45	24.87	23.20	23.35	23.32
	3 Tx Slot	28.00	26.83	26.90	26.92	23.58	22.41	22.48	22.50
	4 Tx Slot	27.00	25.78	25.99	25.86	23.82	22.60	22.81	22.68
EDGE (8PSK)	1 Tx Slot	27.50	25.98	25.84	25.71	18.31	16.79	16.65	16.52
	2 Tx Slot	25.50	24.23	24.08	23.97	19.37	18.10	17.95	17.84
	3 Tx Slot	24.00	22.82	22.78	22.73	19.58	18.40	18.36	18.31
	4 Tx Slot	23.50	21.85	21.72	21.81	20.32	18.67	18.54	18.63

Note:
1) The conducted power of GSM850 is measured with RMS detector.
2) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 time slots.
3) The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power=10 x log (Burst-averaged power mW x Slot used/8)
4) The tested channels are marks in bold.
5) The receiver on/off power of GSM850 main antenna and second antenna are the same.

2. Conducted power measurements of GSM1900

Main Antenna_Receiver on

GSM1900		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			512/ 1850.2	661/ 1880	810/ 1909.8		512/ 1850.2	661/ 1880	810/ 1909.8
GSM (CS)		26.00	25.78	**25.89**	25.69	16.81	16.59	16.70	16.50
GPRS/ EDGE (GMSK)	1 Tx Slot	26.00	25.78	25.89	25.69	16.81	16.59	16.70	16.50
	2 Tx Slot	23.00	22.32	22.41	22.18	16.87	16.19	16.28	16.05
	3 Tx Slot	22.00	21.74	21.82	21.67	17.58	17.32	17.40	17.25
	4 Tx Slot	21.00	20.48	20.59	20.35	17.82	17.30	17.41	17.17
EDGE (8PSK)	1 Tx Slot	22.00	21.80	21.89	21.90	12.81	12.61	12.70	12.71
	2 Tx Slot	21.00	20.53	20.63	20.61	14.87	14.40	14.50	14.48
	3 Tx Slot	20.00	19.30	19.44	19.55	15.58	14.88	15.02	15.13
	4 Tx Slot	18.50	17.54	17.78	17.80	15.32	14.36	14.60	14.62

Main Antenna_Receiver off

GSM1900		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			512/ 1850.2	661/ 1880	810/ 1909.8		512/ 1850.2	661/ 1880	810/ 1909.8
GSM (CS)		30.50	29.02	**29.03**	28.63	21.31	19.83	19.84	19.44
GPRS/ EDGE (GMSK)	1 Tx Slot	30.50	29.02	**29.03**	28.63	21.31	19.83	19.84	19.44
	2 Tx Slot	25.50	24.92	25.03	24.87	19.37	18.79	18.90	18.74
	3 Tx Slot	25.50	24.24	24.42	24.06	21.08	19.82	20.00	19.64
	4 Tx Slot	23.50	22.93	23.06	23.03	20.32	19.75	19.88	19.85
EDGE (8PSK)	1 Tx Slot	25.00	24.29	24.45	24.46	15.81	15.10	15.26	15.27
	2 Tx Slot	24.00	23.14	23.27	23.31	17.87	17.01	17.14	17.18
	3 Tx Slot	24.00	22.02	22.07	22.00	19.58	17.60	17.65	17.58
	4 Tx Slot	21.00	20.00	20.12	20.17	17.82	16.82	16.94	16.99

Second Antenna_Receiver on

GSM1900		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			512/ 1850.2	661/ 1880	810/ 1909.8		512/ 1850.2	661/ 1880	810/ 1909.8
GSM (CS)		28.00	26.88	**26.90**	26.76	18.81	17.69	17.71	17.57
GPRS/ EDGE (GMSK)	1 Tx Slot	28.00	26.96	26.95	26.83	18.81	17.77	17.76	17.64
	2 Tx Slot	25.50	23.68	23.61	23.52	19.37	17.55	17.48	17.39
	3 Tx Slot	24.50	22.68	22.75	22.62	20.08	18.26	18.33	18.20
	4 Tx Slot	23.50	21.59	21.53	21.56	20.32	18.41	18.35	18.38
EDGE (8PSK)	1 Tx Slot	24.00	22.92	22.96	23.07	14.81	13.73	13.77	13.88
	2 Tx Slot	23.00	21.70	21.78	21.83	16.87	15.57	15.65	15.70
	3 Tx Slot	22.00	20.65	20.67	20.64	17.58	16.23	16.25	16.22
	4 Tx Slot	21.00	19.05	19.08	19.33	17.82	15.87	15.90	16.15

Second Antenna_Receiver off

GSM1900		Max Burst Average Power (dBm)				Max Frame Average Power (dBm)			
		Max. Tune-up	Channel/Frequency(MHz)			Max. Tune-up	Channel/Frequency(MHz)		
			512/ 1850.2	661/ 1880	810/ 1909.8		512/ 1850.2	661/ 1880	810/ 1909.8
GSM (CS)		30.50	29.81	**29.77**	29.65	21.31	20.62	20.58	20.46
GPRS/ EDGE (GMSK)	1 Tx Slot	30.50	29.94	29.91	29.77	21.31	20.75	20.72	20.58
	2 Tx Slot	27.50	25.83	25.94	25.89	21.37	19.70	19.81	19.76
	3 Tx Slot	27.00	25.16	**25.25**	25.11	22.58	20.74	20.83	20.69
	4 Tx Slot	24.00	23.78	23.95	23.92	20.82	20.60	20.77	20.74
EDGE (8PSK)	1 Tx Slot	26.50	25.23	25.28	25.40	17.31	16.04	16.09	16.21
	2 Tx Slot	25.50	24.08	24.14	24.31	19.37	17.95	18.01	18.18
	3 Tx Slot	24.50	22.77	22.82	22.89	20.08	18.35	18.40	18.47
	4 Tx Slot	22.00	20.95	21.02	21.16	18.82	17.77	17.84	17.98

Note:
1) The conducted power of GSM1900 is measured with RMS detector.
2) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 time slots.
3) The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power=10 x log (Burst-averaged power mW x Slot used/8)
4) The tested channels are marks in bold.
5) The receiver on/off power of GSM1900 main antenna is the same.

7.1.2 CONDUCTED POWER MEASUREMENTS OF UMTS

1. Conducted power measurements of UMTS B2

Main Antenna_Receiver on

Band	UMTS B2 Average Conducted Power(dBm)			
Tx Channel	Max.	9262	9400	9538
Frequency(MHz)	Tune-up	1852.4	1880	1907.6
AMR Voice	23.50	22.80	22.82	22.00
RMC 12.2K	23.50	22.80	**22.82**	22.00
HSDPA Subtest-1	22.50	21.90	21.87	21.12
HSDPA Subtest-2	22.50	21.83	21.86	20.95
HSDPA Subtest-3	21.50	21.33	21.37	20.76
HSDPA Subtest-4	21.50	21.27	21.29	20.52
HSUPA Subtest-1	22.00	21.07	21.15	20.83
HSUPA Subtest-2	20.50	19.76	19.78	19.07
HSUPA Subtest-3	16.00	14.83	14.78	14.86
HSUPA Subtest-4	20.50	19.71	19.82	19.00
HSUPA Subtest-5	22.00	21.82	21.82	21.06
DC-HSDPA Subtest-1	22.50	21.90	21.87	21.12
DC-HSDPA Subtest-2	22.50	21.83	21.86	20.95
DC-HSDPA Subtest-3	21.50	21.33	21.37	20.76
DC-HSDPA Subtest-4	21.50	21.27	21.29	20.52
HSPA+ Subtest-1	20.50	18.84	18.94	18.63

Main Antenna_Receiver off

Band	UMTS B2 Average Conducted Power(dBm)			
Tx Channel	Max.	9262	9400	9538
Frequency(MHz)	Tune-up	1852.4	1880	1907.6
AMR Voice	21.50	20.84	20.85	20.90
RMC 12.2K	21.50	20.84	**20.85**	20.90
HSDPA Subtest-1	21.30	20.28	20.36	20.43
HSDPA Subtest-2	21.30	19.79	19.70	19.84
HSDPA Subtest-3	20.50	19.82	19.83	19.88
HSDPA Subtest-4	20.50	19.73	19.77	19.83
HSUPA Subtest-1	21.00	19.25	19.32	19.44
HSUPA Subtest-2	18.50	17.78	17.81	17.86
HSUPA Subtest-3	19.50	18.76	18.81	18.83
HSUPA Subtest-4	18.50	17.74	17.79	17.66
HSUPA Subtest-5	21.00	20.23	20.32	20.31
DC-HSDPA Subtest-1	21.30	20.28	20. 36	20.43
DC-HSDPA Subtest-2	21.30	19.79	19.70	19.84
DC-HSDPA Subtest-3	20.50	19.82	19.83	19.88
DC-HSDPA Subtest-4	20.50	19.73	19.77	19.83
HSPA+ Subtest-1	20.50	19.35	19.21	18.87

Second Antenna_Receiver on

Band	UMTS B2 Average Conducted Power(dBm)			
Tx Channel	Max.	9262	9400	9538
Frequency(MHz)	Tune-up	1852.4	1880	1907.6
AMR Voice	17.50	17.26	17.15	17.39
RMC 12.2K	17.50	17.26	**17.15**	17.39
HSDPA Subtest-1	17.30	16.22	16.24	16.34
HSDPA Subtest-2	17.30	16.18	16.14	16.40
HSDPA Subtest-3	16.50	15.64	15.67	15.82
HSDPA Subtest-4	16.50	15.65	15.60	15.84
HSUPA Subtest-1	16.00	15.36	15.36	15.57
HSUPA Subtest-2	15.00	14.22	14.27	14.36
HSUPA Subtest-3	16.30	15.25	15.16	15.32
HSUPA Subtest-4	15.00	14.26	14.16	14.18
HSUPA Subtest-5	17.30	16.22	16.18	16.39
DC-HSDPA Subtest-1	17.30	16.22	16.24	16.34
DC-HSDPA Subtest-2	17.30	16.18	16.14	16.40
DC-HSDPA Subtest-3	16.50	15.64	15.67	15.82
DC-HSDPA Subtest-4	16.50	15.65	15.60	15.84
HSPA+ Subtest-1	17.30	15.75	15.60	15.71

Second Antenna_Receiver off

Band	UMTS B2 Average Conducted Power(dBm)			
Tx Channel	Max.	9262	9400	9538
Frequency(MHz)	Tune-up	1852.4	1880	1907.6
AMR Voice	22.00	21.61	21.78	21.92
RMC 12.2K	22.00	21.61	**21.78**	21.92
HSDPA Subtest-1	21.30	20.58	20.82	20.93
HSDPA Subtest-2	21.30	20.54	20.78	20.91
HSDPA Subtest-3	20.50	20.06	20.36	20.40
HSDPA Subtest-4	20.50	20.05	20.32	20.35
HSUPA Subtest-1	21.00	19.30	19.51	19.89
HSUPA Subtest-2	19.00	18.56	18.78	18.85
HSUPA Subtest-3	20.00	19.55	19.83	19.88
HSUPA Subtest-4	19.00	18.07	18.38	18.48
HSUPA Subtest-5	21.00	20.64	20.76	20.89
DC-HSDPA Subtest-1	21.30	20.58	20.82	20.93
DC-HSDPA Subtest-2	21.30	20.54	20.78	20.91
DC-HSDPA Subtest-3	20.50	20.06	20.36	20.40
DC-HSDPA Subtest-4	20.50	20.05	20.32	20.35
HSPA+ Subtest-1	19.00	18.39	18.50	18.63

Note:
1) The conducted power of UMTS B2 is measured with RMS detector.
2) Note: Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ 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.
3) The tested channels are marks in bold.
4) The power of single channel and double channel is smaller than RMC12.2K, so SAR need not be tested.

2. Conducted power measurements of UMTS B4

Main Antenna_Receiver on

Band	UMTS B4 Average Conducted Power(dBm)			
Tx Channel	Max.	1312	1413	1513
Frequency(MHz)	Tune-up	1712.4	1732.6	1752.6
AMR Voice	23.50	22.95	22.86	22.66
RMC 12.2K	23.50	22.95	**22.86**	22.66
HSDPA Subtest-1	22.50	21.96	21.92	21.68
HSDPA Subtest-2	22.50	21.95	21.93	21.63
HSDPA Subtest-3	22.00	21.47	21.44	21.25
HSDPA Subtest-4	22.00	21.42	21.35	21.21
HSUPA Subtest-1	22.50	21.63	21.72	21.32
HSUPA Subtest-2	20.50	19.89	19.87	19.76
HSUPA Subtest-3	17.00	16.43	16.52	16.20
HSUPA Subtest-4	20.50	19.87	19.96	19.72
HSUPA Subtest-5	22.50	21.92	21.94	21.71
DC-HSDPA Subtest-1	22.50	21.96	21.92	21.68
DC-HSDPA Subtest-2	22.50	21.95	21.93	21.63
DC-HSDPA Subtest-3	22.00	21.47	21.44	21.25
DC-HSDPA Subtest-4	22.00	21.42	21.35	21.21
HSPA+ Subtest-1	20.00	19.05	19.07	18.43

Main Antenna_Receiver off

Band	UMTS B4 Average Conducted Power(dBm)			
Tx Channel	Max.	1312	1413	1513
Frequency(MHz)	Tune-up	1712.4	1732.6	1752.6
AMR Voice	20.50	20.22	20.32	20.02
RMC 12.2K	20.50	20.22	**20.32**	20.02
HSDPA Subtest-1	20.30	19.29	19.10	19.00
HSDPA Subtest-2	20.30	19.35	19.26	19.02
HSDPA Subtest-3	19.50	18.78	18.89	18.60
HSDPA Subtest-4	19.50	18.73	18.76	18.58
HSUPA Subtest-1	20.50	18.78	18.88	18.66
HSUPA Subtest-2	19.50	18.10	18.22	18.15
HSUPA Subtest-3	19.30	18.32	18.38	18.12
HSUPA Subtest-4	19.50	18.12	17.92	17.90
HSUPA Subtest-5	20.30	18.78	18.83	18.55
DC-HSDPA Subtest-1	20.30	19.29	19.10	19.00
DC-HSDPA Subtest-2	20.30	19.35	19.26	19.02
DC-HSDPA Subtest-3	19.50	18.78	18.89	18.60
DC-HSDPA Subtest-4	19.50	18.73	18.76	18.58
HSPA+ Subtest-1	19.50	18.95	18.78	18.50

Second Antenna_Receiver on

Band	UMTS B4 Average Conducted Power(dBm)			
Tx Channel	Max.	1312	1413	1513
Frequency(MHz)	Tune-up	1712.4	1732.6	1752.6
AMR Voice	19.00	18.92	18.96	18.76
RMC 12.2K	19.00	**18.92**	**18.96**	**18.76**
HSDPA Subtest-1	18.80	17.88	17.91	17.77
HSDPA Subtest-2	18.80	17.87	17.85	17.65
HSDPA Subtest-3	18.00	17.45	17.45	17.20
HSDPA Subtest-4	18.00	17.45	17.40	17.23
HSUPA Subtest-1	19.00	17.82	17.91	17.77
HSUPA Subtest-2	16.00	15.82	15.90	15.78
HSUPA Subtest-3	17.80	16.97	16.88	16.75
HSUPA Subtest-4	16.00	15.84	15.85	15.80
HSUPA Subtest-5	18.80	17.92	17.85	17.75
DC-HSDPA Subtest-1	18.80	17.88	17.91	17.77
DC-HSDPA Subtest-2	18.80	17.87	17.85	17.65
DC-HSDPA Subtest-3	18.00	17.45	17.45	17.20
DC-HSDPA Subtest-4	18.00	17.45	17.40	17.23
HSPA+ Subtest-1	18.00	17.04	17.06	16.80

Second Antenna_Receiver off

Band	UMTS B4 Average Conducted Power(dBm)			
Tx Channel	Max.	1312	1413	1513
Frequency(MHz)	Tune-up	1712.4	1732.6	1752.6
AMR Voice	21.00	20.91	20.95	20.75
RMC 12.2K	21.00	20.91	**20.95**	20.75
HSDPA Subtest-1	20.00	19.88	19.85	19.69
HSDPA Subtest-2	20.00	19.85	19.86	19.65
HSDPA Subtest-3	19.50	19.38	19.43	19.15
HSDPA Subtest-4	19.50	19.31	19.39	19.20
HSUPA Subtest-1	22.50	21.93	22.02	21.71
HSUPA Subtest-2	18.00	17.89	17.90	17.76
HSUPA Subtest-3	19.00	18.87	18.90	18.76
HSUPA Subtest-4	20.50	20.36	20.47	20.23
HSUPA Subtest-5	20.50	19.88	19.96	19.69
DC-HSDPA Subtest-1	20.00	19.88	19.85	19.69
DC-HSDPA Subtest-2	20.00	19.85	19.86	19.65
DC-HSDPA Subtest-3	19.50	19.38	19.43	19.15
DC-HSDPA Subtest-4	19.50	19.31	19.39	19.20
HSPA+ Subtest-1	19.50	18.28	18.26	17.67

Note:
1) The conducted power of UMTS B4 is measured with RMS detector.
2) Note: Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ 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.
3) The tested channels are marks in bold.
4) The power of single channel and double channel is smaller than RMC12.2K, so SAR need not be tested.

3. Conducted power measurements of UMTS B5

Main Antenna_Receiver on

Band	UMTS B5 Average Conducted Power(dBm)			
Tx Channel	Max.	4132	4182	4233
Frequency(MHz)	Tune-up	826.4	836.4	846.6
AMR Voice	24.00	23.02	23.19	23.39
RMC 12.2K	24.00	23.02	**23.19**	**23.39**
HSDPA Subtest-1	23.00	22.08	22.24	22.36
HSDPA Subtest-2	23.00	22.06	22.22	22.32
HSDPA Subtest-3	22.50	21.54	21.80	21.89
HSDPA Subtest-4	22.50	21.58	21.77	21.88
HSUPA Subtest-1	22.50	21.34	21.52	21.57
HSUPA Subtest-2	21.00	20.02	20.25	20.38
HSUPA Subtest-3	21.50	20.98	21.16	21.21
HSUPA Subtest-4	21.00	20.01	20.25	20.36
HSUPA Subtest-5	22.50	22.08	22.22	22.32
DC-HSDPA Subtest-1	23.00	22.08	22.24	22.36
DC-HSDPA Subtest-2	23.00	22.06	22.22	22.32
DC-HSDPA Subtest-3	22.50	21.54	21.80	21.89
DC-HSDPA Subtest-4	22.50	21.58	21.77	21.88
HSPA+ Subtest-1	20.50	18.88	18.98	19.07

Main Antenna_Receiver off

Band	UMTS B5 Average Conducted Power(dBm)			
Tx Channel	Max.	4132	4182	4233
Frequency(MHz)	Tune-up	826.4	836.4	846.6
AMR Voice	24.00	22.96	23.22	23.36
RMC 12.2K	24.00	22.96	**23.22**	23.36
HSDPA Subtest-1	23.00	22.05	22.23	22.35
HSDPA Subtest-2	23.00	22.06	22.20	22.31
HSDPA Subtest-3	22.50	21.52	21.74	21.83
HSDPA Subtest-4	22.50	21.55	21.68	21.84
HSUPA Subtest-1	22.50	21.26	21.35	21.54
HSUPA Subtest-2	21.00	19.99	20.23	20.35
HSUPA Subtest-3	21.50	20.86	21.01	21.12
HSUPA Subtest-4	21.00	19.96	20.17	20.32
HSUPA Subtest-5	22.50	21.05	21.18	21.31
DC-HSDPA Subtest-1	23.00	22.05	22.23	22.35
DC-HSDPA Subtest-2	23.00	22.06	22.20	22.31
DC-HSDPA Subtest-3	22.50	21.52	21.74	21.83
DC-HSDPA Subtest-4	22.50	21.55	21.68	21.84
HSPA+ Subtest-1	20.50	20.29	20.33	20.35

Second Antenna_Receiver on

Band	UMTS B5 Average Conducted Power(dBm)			
Tx Channel	Max.	4132	4182	4233
Frequency(MHz)	Tune-up	826.4	836.4	846.6
AMR Voice	24.50	23.21	23.30	23.36
RMC 12.2K	24.50	**23.21**	**23.30**	**23.36**
HSDPA Subtest-1	23.00	22.17	22.33	22.40
HSDPA Subtest-2	23.00	22.25	22.38	22.47
HSDPA Subtest-3	22.50	21.67	21.88	21.96
HSDPA Subtest-4	22.50	21.80	21.93	21.98
HSUPA Subtest-1	22.50	21.46	21.63	21.56
HSUPA Subtest-2	21.50	20.32	20.34	20.42
HSUPA Subtest-3	21.30	21.12	21.23	21.28
HSUPA Subtest-4	21.50	20.24	20.28	20.46
HSUPA Subtest-5	22.50	22.24	22.42	22.46
DC-HSDPA Subtest-1	23.00	22.17	22.33	22.40
DC-HSDPA Subtest-2	23.00	22.25	22.38	22.47
DC-HSDPA Subtest-3	22.50	21.67	21.88	21.96
DC-HSDPA Subtest-4	22.50	21.80	21.93	21.98
HSPA+ Subtest-1	21.00	19.03	19.15	19.34

Second Antenna_Receiver off

Band	UMTS B5 Average Conducted Power(dBm)			
Tx Channel	Max.	4132	4182	4233
Frequency(MHz)	Tune-up	826.4	836.4	846.6
AMR Voice	24.50	23.28	23.43	23.49
RMC 12.2K	24.50	23.28	**23.43**	23.49
HSDPA Subtest-1	23.00	22.26	22.35	22.43
HSDPA Subtest-2	23.00	22.22	22.34	22.45
HSDPA Subtest-3	22.50	21.75	21.92	21.98
HSDPA Subtest-4	22.50	21.72	21.88	21.94
HSUPA Subtest-1	22.50	21.48	21.36	21.62
HSUPA Subtest-2	21.50	20.26	20.38	20.47
HSUPA Subtest-3	21.30	21.17	21.24	21.23
HSUPA Subtest-4	21.50	20.27	20.16	20.17
HSUPA Subtest-5	22.50	22.27	22.44	22.46
DC-HSDPA Subtest-1	23.00	22.26	22.35	22.43
DC-HSDPA Subtest-2	23.00	22.22	22.34	22.45
DC-HSDPA Subtest-3	22.50	21.75	21.92	21.98
DC-HSDPA Subtest-4	22.50	21.72	21.88	21.94
HSPA+ Subtest-1	20.50	18.95	18.89	19.29

Note:
1) The conducted power of UMTS B5 is measured with RMS detector.
2) Note: Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ 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.
3) The tested channels are marks in bold.
4) The power of single channel and double channel is smaller than RMC12.2K, so SAR need not be tested.
5) The receiver on/off power of UMTS B5 main antenna and second antenna are the same.

7.1.3 CONDUCTED POWER MEASUREMENTS OF LTE

1. Conducted power measurement results of LTE B2

Main Antenna_Receiver on

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880	19193/ 1909.3				18615/ 1851.5	18900/ 1880	19185/ 1908.5
QPSK	1/0	23.00	22.47	22.50	22.48	QPSK	1/0	23.00	22.40	22.56	22.63
	1/2	23.00	22.50	22.54	22.59		1/7	23.00	22.69	22.69	22.66
	1/5	23.00	22.46	22.46	22.52		1/14	23.00	22.36	22.46	22.55
	3/0	23.00	22.40	22.46	22.58		8/0	23.00	22.39	22.43	22.56
	3/1	23.00	22.43	22.52	22.65		8/3	23.00	22.38	22.44	22.56
	3/3	23.00	22.45	22.41	22.65		8/7	23.00	22.36	22.41	22.55
	6/0	23.00	22.38	22.39	22.51		15/0	23.00	22.39	22.40	22.55
16QAM	1/0	22.50	21.88	21.49	21.55	16QAM	1/0	22.50	21.42	21.95	21.57
	1/2	22.50	21.88	21.45	21.64		1/7	22.50	21.41	21.58	21.61
	1/5	22.50	21.86	21.47	21.64		1/14	22.50	21.35	21.92	21.56
	3/0	22.50	21.64	21.63	21.56		8/0	22.50	21.49	21.55	21.58
	3/1	22.50	21.66	21.66	21.59		8/3	22.50	21.50	21.53	21.61
	3/3	22.50	21.60	21.62	21.55		8/7	22.50	21.48	21.51	21.58
	6/0	22.50	21.27	21.58	21.55		15/0	22.50	21.45	21.46	21.50
64QAM	1/0	21.50	20.55	20.81	20.71	64QAM	1/0	21.50	20.74	20.90	20.60
	1/2	21.50	20.61	20.92	20.74		1/7	21.50	20.74	20.84	20.71
	1/5	21.50	20.63	20.80	20.62		1/14	21.50	20.62	20.75	20.68
	3/0	21.50	21.35	21.41	21.32		8/0	21.50	20.38	20.53	20.58
	3/1	21.50	21.36	21.46	21.32		8/3	21.50	20.41	20.50	20.60
	3/3	21.50	21.37	21.38	21.32		8/7	21.50	20.36	20.48	20.59
	6/0	21.50	20.46	20.36	20.81		15/0	21.50	20.44	20.44	20.61

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	23.00	22.57	22.53	22.68	QPSK	1/0	23.00	22.51	22.57	22.76
	1/12	23.00	22.47	22.47	22.65		1/24	23.00	22.42	22.51	22.86
	1/24	23.00	22.49	22.45	22.64		1/49	23.00	22.55	22.62	22.81
	12/0	23.00	22.41	22.48	22.62		25/0	23.00	22.36	22.35	22.72
	12/6	23.00	22.42	22.44	22.62		25/12	23.00	22.41	22.39	22.67
	12/13	23.00	22.35	22.42	22.57		25/25	23.00	22.44	22.41	22.71
	25/0	23.00	22.40	22.44	22.60		50/0	23.00	22.35	22.41	22.67
16QAM	1/0	22.50	21.69	21.71	21.75	16QAM	1/0	22.50	21.59	21.93	21.72
	1/12	22.50	21.63	21.99	21.71		1/24	22.50	21.42	21.85	21.70
	1/24	22.50	21.65	21.93	21.69		1/49	22.50	21.60	21.95	21.76
	12/0	22.50	21.53	21.65	21.71		25/0	22.50	21.38	21.40	21.81
	12/6	22.50	21.48	21.59	21.60		25/12	22.50	21.43	21.44	21.75
	12/13	22.50	21.45	21.57	21.59		25/25	22.50	21.47	21.42	21.74
	25/0	22.50	21.42	21.50	21.54		50/0	22.50	21.35	21.43	21.68
64QAM	1/0	21.50	20.44	20.89	20.83	64QAM	1/0	21.50	20.92	20.67	20.92
	1/12	21.50	20.38	20.73	20.74		1/24	21.50	20.78	20.62	20.90
	1/24	21.50	20.38	20.78	20.81		1/49	21.50	20.96	20.73	20.93
	12/0	21.50	20.49	20.47	20.54		25/0	21.50	20.40	20.42	20.78
	12/6	21.50	20.46	20.43	20.63		25/12	21.50	20.43	20.48	20.76
	12/13	21.50	20.41	20.39	20.61		25/25	21.50	20.48	20.47	20.77
	25/0	21.50	20.39	20.41	20.61		50/0	21.50	20.35	20.42	20.64

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	23.00	22.53	22.61	22.72	QPSK	1/0	23.00	22.67	22.68	**22.89**
	1/37	23.00	22.26	22.41	22.50		1/50	23.00	22.54	22.56	22.77
	1/74	23.00	22.64	22.51	22.77		1/99	23.00	22.45	22.28	22.58
	36/0	23.00	22.34	22.51	22.45		50/0	23.00	22.39	22.36	22.54
	36/19	23.00	22.44	22.31	22.45		50/25	23.00	22.46	22.33	**22.61**
	36/39	23.00	22.47	22.26	22.45		50/50	23.00	22.41	22.24	22.51
	75/0	23.00	22.39	22.29	22.49		100/0	23.00	22.43	22.25	22.57
16QAM	1/0	22.50	21.58	22.00	22.21	16QAM	1/0	22.50	21.93	22.18	22.19
	1/37	22.50	21.28	21.80	21.94		1/50	22.50	21.86	21.40	22.05
	1/74	22.50	21.68	21.99	22.15		1/99	22.50	21.77	21.80	21.86
	36/0	22.50	21.34	21.99	21.48		50/0	22.50	21.39	21.53	21.53
	36/19	22.50	21.49	21.50	21.55		50/25	22.50	21.45	21.50	21.62
	36/39	22.50	21.48	21.42	21.55		50/50	22.50	21.40	21.39	21.57
	75/0	22.50	21.42	21.42	21.59		100/0	22.50	21.47	21.39	21.53
64QAM	1/0	21.50	20.93	20.75	21.36	64QAM	1/0	21.50	20.81	21.30	20.84
	1/37	21.50	20.66	20.51	21.15		1/50	21.50	20.76	20.48	20.78
	1/74	21.50	21.05	20.70	21.42		1/99	21.50	20.65	20.90	20.60
	36/0	21.50	20.36	20.70	20.53		50/0	21.50	20.39	20.51	20.51
	36/19	21.50	20.50	20.49	20.54		50/25	21.50	20.50	20.48	20.60
	36/39	21.50	20.50	20.40	20.54		50/50	21.50	20.48	20.38	20.51
	75/0	21.50	20.42	20.42	20.67		100/0	21.50	20.44	20.33	20.55

Main Antenna_Receiver off

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880	19193/ 1909.3				18615/ 1851.5	18900/ 1880	19185/ 1908.5
QPSK	1/0	23.00	22.45	22.42	22.50	QPSK	1/0	23.00	22.42	22.53	22.66
	1/2	23.00	22.56	22.48	22.64		1/7	23.00	22.54	22.52	22.68
	1/5	23.00	22.40	22.43	22.54		1/14	23.00	22.40	22.45	22.59
	3/0	23.00	22.54	22.59	22.49		8/0	23.00	22.40	22.42	22.56
	3/1	23.00	22.61	22.39	22.59		8/3	23.00	22.39	22.44	22.56
	3/3	23.00	22.51	22.61	22.39		8/7	23.00	22.37	22.41	22.54
	6/0	23.00	22.34	22.36	22.47		15/0	23.00	22.40	22.40	22.55
16QAM	1/0	22.00	21.55	21.63	21.46	16QAM	1/0	22.00	21.42	21.97	21.59
	1/2	22.00	21.61	21.95	21.58		1/7	22.00	21.44	21.97	21.58
	1/5	22.00	21.52	21.88	21.56		1/14	22.00	21.35	21.90	21.59
	3/0	22.00	21.44	21.62	21.75		8/0	22.00	21.55	21.56	21.60
	3/1	22.00	21.49	21.67	21.77		8/3	22.00	21.55	21.53	21.62
	3/3	22.00	21.45	21.60	21.71		8/7	22.00	21.53	21.50	21.59
	6/0	22.00	21.57	21.33	21.67		15/0	22.00	21.49	21.44	21.52
64QAM	1/0	21.00	20.80	20.51	20.72	64QAM	1/0	21.00	20.79	20.60	20.80
	1/2	21.00	20.92	20.54	20.81		1/7	21.00	20.79	20.70	20.86
	1/5	21.00	20.80	20.45	20.79		1/14	21.00	20.75	20.50	20.77
	3/0	21.00	20.78	20.55	20.50		8/0	21.00	20.47	20.47	20.49
	3/1	21.00	20.77	20.59	20.46		8/3	21.00	20.50	20.49	20.52
	3/3	21.00	20.73	20.55	20.48		8/7	21.00	20.45	20.45	20.51
	6/0	21.00	20.39	20.69	20.60		15/0	21.00	20.40	20.45	20.59

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	23.00	22.60	22.55	22.67	QPSK	1/0	23.00	22.54	22.59	22.78
	1/12	23.00	22.51	22.48	22.66		1/24	23.00	22.45	22.50	22.87
	1/24	23.00	22.49	22.49	22.62		1/49	23.00	22.63	22.62	22.80
	12/0	23.00	22.44	22.49	22.63		25/0	23.00	22.41	22.34	22.74
	12/6	23.00	22.43	22.42	22.60		25/12	23.00	22.41	22.37	22.68
	12/13	23.00	22.36	22.39	22.56		25/25	23.00	22.47	22.39	22.71
	25/0	23.00	22.45	22.44	22.60		50/0	23.00	22.39	22.39	22.68
16QAM	1/0	22.00	21.72	21.71	21.74	16QAM	1/0	22.00	21.60	21.95	21.73
	1/12	22.00	21.64	21.98	21.72		1/24	22.00	21.44	21.90	21.73
	1/24	22.00	21.67	21.92	21.71		1/49	22.00	21.61	21.95	21.86
	12/0	22.00	21.54	21.66	21.70		25/0	22.00	21.40	21.42	21.83
	12/6	22.00	21.49	21.61	21.62		25/12	22.00	21.44	21.45	21.74
	12/13	22.00	21.46	21.58	21.61		25/25	22.00	21.50	21.42	21.75
	25/0	22.00	21.45	21.53	21.56		50/0	22.00	21.38	21.44	21.68
64QAM	1/0	21.00	20.47	20.88	20.80	64QAM	1/0	21.00	20.89	20.66	20.90
	1/12	21.00	20.38	20.82	20.82		1/24	21.00	20.79	20.58	20.87
	1/24	21.00	20.38	20.77	20.81		1/49	21.00	20.96	20.71	20.93
	12/0	21.00	20.45	20.44	20.68		25/0	21.00	20.43	20.41	20.77
	12/6	21.00	20.47	20.39	20.63		25/12	21.00	20.45	20.45	20.74
	12/13	21.00	20.43	20.34	20.61		25/25	21.00	20.47	20.48	20.80
	25/0	21.00	20.39	20.42	20.60		50/0	21.00	20.35	20.47	20.64

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	23.00	22.54	22.68	22.79	QPSK	1/0	23.00	22.82	22.86	**22.88**
	1/37	23.00	22.25	22.40	22.53		1/50	23.00	22.71	22.72	22.76
	1/74	23.00	22.65	22.59	22.77		1/99	23.00	22.63	22.53	22.65
	36/0	23.00	22.34	22.59	22.50		50/0	23.00	22.40	22.45	22.53
	36/19	23.00	22.45	22.40	22.55		50/25	23.00	22.46	22.43	**22.61**
	36/39	23.00	22.50	22.35	22.57		50/50	23.00	22.42	22.35	22.53
	75/0	23.00	22.39	22.40	22.60		100/0	23.00	22.45	22.39	22.55
16QAM	1/0	22.00	21.57	21.70	21.48	16QAM	1/0	22.00	21.69	21.79	21.70
	1/37	22.00	21.31	21.45	21.59		1/50	22.00	21.94	21.44	21.93
	1/74	22.00	21.70	21.62	21.44		1/99	22.00	21.88	21.78	21.78
	36/0	22.00	21.37	21.62	21.53		50/0	22.00	21.41	21.47	21.52
	36/19	22.00	21.51	21.53	21.55		50/25	22.00	21.48	21.48	21.59
	36/39	22.00	21.49	21.41	21.58		50/50	22.00	21.44	21.37	21.51
	75/0	22.00	21.39	21.42	21.61		100/0	22.00	21.47	21.39	21.54
64QAM	1/0	21.00	20.94	20.78	20.64	64QAM	1/0	21.00	20.82	20.93	20.69
	1/37	21.00	20.67	20.52	20.79		1/50	21.00	20.74	20.47	20.98
	1/74	21.00	20.69	20.72	20.67		1/99	21.00	20.67	20.93	20.80
	36/0	21.00	20.37	20.72	20.53		50/0	21.00	20.43	20.48	20.57
	36/19	21.00	20.49	20.49	20.57		50/25	21.00	20.50	20.45	20.70
	36/39	21.00	20.50	20.43	20.55		50/50	21.00	20.47	20.40	20.64
	75/0	21.00	20.42	20.42	20.69		100/0	21.00	20.47	20.34	20.58

Second Antenna_Receiver on

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880	19193/ 1909.3				18615/ 1851.5	18900/ 1880	19185/ 1908.5
QPSK	1/0	18.00	16.96	16.98	17.10	QPSK	1/0	18.00	16.98	17.09	17.11
	1/2	18.00	17.02	17.03	17.22		1/7	18.00	16.97	17.15	17.20
	1/5	18.00	16.98	16.98	17.15		1/14	18.00	16.92	17.08	17.10
	3/0	18.00	16.97	17.04	17.13		8/0	18.00	16.99	17.11	17.17
	3/1	18.00	16.97	17.09	17.21		8/3	18.00	16.96	17.09	17.20
	3/3	18.00	16.92	17.04	17.17		8/7	18.00	16.94	17.04	17.18
	6/0	18.00	16.92	17.04	17.14		15/0	18.00	16.96	17.06	17.19
16QAM	1/0	18.00	17.01	17.27	17.51	16QAM	1/0	18.00	17.04	17.67	17.28
	1/2	18.00	17.05	17.31	17.62		1/7	18.00	17.01	17.50	17.28
	1/5	18.00	17.04	17.25	17.56		1/14	18.00	16.95	17.53	17.23
	3/0	18.00	17.15	17.15	17.40		8/0	18.00	17.10	17.21	17.23
	3/1	18.00	17.21	17.23	17.41		8/3	18.00	17.13	17.22	17.25
	3/3	18.00	17.16	17.16	17.35		8/7	18.00	17.10	17.16	17.21
	6/0	18.00	17.17	17.24	17.09		15/0	18.00	17.02	17.12	17.19
64QAM	1/0	18.00	17.11	17.35	17.56	64QAM	1/0	18.00	17.39	17.16	17.53
	1/2	18.00	17.16	17.34	17.73		1/7	18.00	17.44	17.29	17.50
	1/5	18.00	17.05	17.33	17.58		1/14	18.00	17.32	17.19	17.43
	3/0	18.00	17.14	17.06	17.54		8/0	18.00	17.09	17.19	17.17
	3/1	18.00	17.19	17.09	17.59		8/3	18.00	17.12	17.21	17.22
	3/3	18.00	17.16	17.08	17.51		8/7	18.00	17.07	17.13	17.17
	6/0	18.00	17.31	17.19	17.19		15/0	18.00	17.01	17.15	17.25

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	18.00	17.22	17.18	17.36	QPSK	1/0	18.00	17.13	17.24	17.31
	1/12	18.00	17.09	17.12	17.27		1/24	18.00	17.03	17.17	17.27
	1/24	18.00	17.11	17.03	17.29		1/49	18.00	17.15	17.26	17.35
	12/0	18.00	17.01	17.09	17.23		25/0	18.00	16.96	16.96	17.39
	12/6	18.00	16.97	17.12	17.20		25/12	18.00	17.00	17.09	17.28
	12/13	18.00	16.95	17.06	17.18		25/25	18.00	16.99	17.07	17.33
	25/0	18.00	17.02	17.14	17.22		50/0	18.00	17.00	17.00	17.28
16QAM	1/0	18.00	17.33	17.72	17.43	16QAM	1/0	18.00	17.15	17.60	17.43
	1/12	18.00	17.25	17.69	17.36		1/24	18.00	17.00	17.49	17.45
	1/24	18.00	17.28	17.59	17.37		1/49	18.00	17.12	17.61	17.49
	12/0	18.00	17.14	17.24	17.34		25/0	18.00	17.00	17.02	17.46
	12/6	18.00	17.11	17.26	17.25		25/12	18.00	17.05	17.13	17.38
	12/13	18.00	17.06	17.25	17.27		25/25	18.00	17.01	17.08	17.38
	25/0	18.00	17.02	17.18	17.19		50/0	18.00	16.94	17.02	17.34
64QAM	1/0	18.00	17.12	17.59	17.50	64QAM	1/0	18.00	17.53	17.33	17.61
	1/12	18.00	17.00	17.52	17.47		1/24	18.00	17.43	17.27	17.56
	1/24	18.00	17.06	17.42	17.48		1/49	18.00	17.52	17.42	17.66
	12/0	18.00	17.11	17.05	17.32		25/0	18.00	17.05	17.06	17.47
	12/6	18.00	17.06	17.09	17.29		25/12	18.00	17.10	17.18	17.40
	12/13	18.00	17.03	17.08	17.26		25/25	18.00	17.07	17.15	17.45
	25/0	18.00	17.02	17.10	17.27		50/0	18.00	16.98	17.06	17.29

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	18.00	17.23	17.36	17.47	QPSK	1/0	18.00	17.65	17.59	17.62
	1/37	18.00	16.99	17.06	17.10		1/50	18.00	17.51	17.46	**17.92**
	1/74	18.00	17.17	17.33	17.40		1/99	18.00	17.32	17.36	17.73
	36/0	18.00	17.03	17.33	17.24		50/0	18.00	17.15	17.16	**17.35**
	36/19	18.00	17.09	17.09	17.18		50/25	18.00	**17.16**	**17.19**	17.26
	36/39	18.00	17.01	17.06	17.20		50/50	18.00	16.96	17.07	17.21
	75/0	18.00	17.04	17.06	17.23		100/0	18.00	17.06	17.06	**17.23**
16QAM	1/0	18.00	17.26	17.73	17.69	16QAM	1/0	18.00	17.70	17.80	17.83
	1/37	18.00	17.01	17.41	17.62		1/50	18.00	17.62	16.96	17.79
	1/74	18.00	17.19	17.67	17.90		1/99	18.00	17.43	17.56	17.67
	36/0	18.00	17.02	17.67	17.21		50/0	18.00	17.11	17.15	17.43
	36/19	18.00	17.08	17.16	17.19		50/25	18.00	17.15	17.15	17.33
	36/39	18.00	17.02	17.11	17.20		50/50	18.00	16.96	17.04	17.26
	75/0	18.00	16.98	17.08	17.22		100/0	18.00	17.03	17.04	17.32
64QAM	1/0	18.00	17.63	17.43	17.41	64QAM	1/0	18.00	17.20	17.26	17.41
	1/37	18.00	17.40	17.15	17.75		1/50	18.00	17.03	16.91	17.11
	1/74	18.00	17.55	17.44	17.59		1/99	18.00	16.89	16.97	17.02
	36/0	18.00	17.07	17.44	17.24		50/0	18.00	17.08	17.13	17.28
	36/19	18.00	17.13	17.19	17.18		50/25	18.00	17.14	17.10	17.18
	36/39	18.00	17.06	17.16	17.16		50/50	18.00	16.91	16.99	17.12
	75/0	18.00	17.02	17.11	17.30		100/0	18.00	17.02	17.06	17.24

Second Antenna_Receiver off

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880	19193/ 1909.3				18615/ 1851.5	18900/ 1880	19185/ 1908.5
QPSK	1/0	23.00	22.04	22.12	22.47	QPSK	1/0	23.00	21.89	22.04	22.19
	1/2	23.00	22.08	22.15	22.51		1/7	23.00	22.06	22.13	22.25
	1/5	23.00	22.08	22.13	22.49		1/14	23.00	21.92	22.02	22.21
	3/0	22.50	21.10	21.16	21.36		8/0	22.50	21.91	21.93	22.18
	3/1	22.50	21.09	21.09	21.47		8/3	22.50	21.87	21.91	22.18
	3/3	22.50	21.07	21.09	21.35		8/7	22.50	21.86	21.88	22.17
	6/0	22.50	21.01	21.05	21.34		15/0	22.50	21.91	21.90	22.18
16QAM	1/0	22.50	21.13	21.29	21.53	16QAM	1/0	22.50	20.94	21.42	21.19
	1/2	22.50	21.20	21.33	21.53		1/7	22.50	20.92	21.55	21.22
	1/5	22.50	21.10	21.26	21.54		1/14	22.50	20.88	21.46	21.18
	3/0	21.50	20.20	20.61	20.32		8/0	21.50	21.00	21.01	21.21
	3/1	21.50	20.24	20.59	20.35		8/3	21.50	21.01	21.02	21.20
	3/3	21.50	20.24	20.53	20.38		8/7	21.50	20.97	20.96	21.16
	6/0	21.50	20.19	19.97	20.50		15/0	21.50	20.93	20.93	21.11
64QAM	1/0	21.50	20.27	20.10	20.45	64QAM	1/0	21.50	20.35	20.10	20.44
	1/2	21.50	20.30	20.11	20.43		1/7	21.50	20.35	20.17	20.52
	1/5	21.50	20.26	20.07	20.42		1/14	21.50	20.32	20.13	20.43
	3/0	20.50	19.25	19.38	19.43		8/0	20.50	20.02	19.95	20.13
	3/1	20.50	19.31	19.35	19.60		8/3	20.50	20.04	19.96	20.15
	3/3	20.50	19.19	19.36	19.48		8/7	20.50	20.01	19.89	20.15
	6/0	20.50	19.44	19.15	19.38		15/0	20.50	19.94	19.93	20.23

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	23.00	22.12	22.16	22.25	QPSK	1/0	23.00	22.04	22.21	22.32
	1/12	23.00	21.94	21.89	22.29		1/24	23.00	21.94	21.94	22.40
	1/24	23.00	22.03	21.98	22.28		1/49	23.00	22.12	22.19	22.46
	12/0	22.50	21.92	21.96	22.25		25/0	22.50	21.87	21.95	22.28
	12/6	22.50	21.88	21.87	22.23		25/12	22.50	21.90	21.82	22.26
	12/13	22.50	21.84	21.88	22.20		25/25	22.50	21.93	21.96	22.32
	25/0	22.50	21.91	21.90	22.21		50/0	22.50	21.84	21.88	22.27
16QAM	1/0	22.50	21.18	21.59	21.36	16QAM	1/0	22.50	21.09	21.61	21.25
	1/12	22.50	21.12	21.43	21.34		1/24	22.50	20.82	21.32	21.32
	1/24	22.50	21.14	21.50	21.32		1/49	22.50	21.12	21.53	21.42
	12/0	21.50	20.99	21.11	21.27		25/0	21.50	20.85	20.98	21.40
	12/6	21.50	20.97	21.04	21.20		25/12	21.50	20.88	20.91	21.33
	12/13	21.50	20.93	21.01	21.23		25/25	21.50	20.97	20.98	21.38
	25/0	21.50	20.89	20.98	21.15		50/0	21.50	20.83	20.94	21.27
64QAM	1/0	21.50	20.00	20.46	20.47	64QAM	1/0	21.50	20.50	20.33	20.51
	1/12	21.50	19.91	20.31	20.47		1/24	21.50	20.38	20.07	20.48
	1/24	21.50	19.96	20.40	20.49		1/49	21.50	20.56	20.40	20.64
	12/0	20.50	20.06	19.90	20.31		25/0	20.50	19.99	20.02	20.37
	12/6	20.50	19.97	19.84	20.30		25/12	20.50	19.97	19.93	20.35
	12/13	20.50	19.97	19.84	20.25		25/25	20.50	20.00	20.10	20.42
	25/0	20.50	19.95	19.88	20.26		50/0	20.50	19.91	19.95	20.26

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	23.00	22.14	22.23	22.35	QPSK	1/0	23.00	**22.54**	**22.56**	**22.58**
	1/37	23.00	21.84	21.98	22.02		1/50	23.00	22.28	22.35	22.36
	1/74	23.00	22.23	22.20	22.41		1/99	23.00	22.28	22.19	22.43
	36/0	22.50	21.93	22.20	22.09		50/0	22.50	**21.87**	21.85	21.77
	36/19	22.50	21.93	21.99	22.05		50/25	22.50	21.84	**21.88**	**21.99**
	36/39	22.50	22.00	21.89	22.16		50/50	22.50	21.85	21.78	21.98
	75/0	22.50	21.98	21.99	22.12		100/0	22.50	21.86	21.84	**21.87**
16QAM	1/0	22.50	21.18	21.60	21.80	16QAM	1/0	22.50	21.67	21.70	21.86
	1/37	22.50	20.86	21.35	21.46		1/50	22.50	21.38	20.96	21.56
	1/74	22.50	21.27	21.57	21.83		1/99	22.50	21.46	21.39	21.62
	36/0	21.50	20.92	21.07	21.03		50/0	21.50	21.01	20.97	21.27
	36/19	21.50	20.94	21.05	21.05		50/25	21.50	20.98	21.04	21.18
	36/39	21.50	21.01	20.97	21.15		50/50	21.50	20.96	20.97	21.24
	75/0	21.50	21.01	20.96	21.13		100/0	21.50	21.01	20.96	21.27
64QAM	1/0	21.50	20.61	20.33	21.03	64QAM	1/0	21.50	20.59	20.96	20.51
	1/37	21.50	20.31	20.14	20.72		1/50	21.50	20.40	20.10	20.31
	1/74	21.50	20.69	20.37	21.10		1/99	21.50	20.42	20.60	20.34
	36/0	20.50	19.99	20.37	20.12		50/0	20.50	20.11	20.02	20.25
	36/19	20.50	20.03	20.12	20.12		50/25	20.50	20.12	20.15	20.15
	36/39	20.50	20.10	20.07	20.14		50/50	20.50	20.10	20.01	20.17
	75/0	20.50	20.05	20.05	20.22		100/0	20.50	20.09	20.02	20.22

Note: The tested channels are marks in bold.

2. Conducted power measurement results of LTE B4

Main Antenna_Receiver on

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	24.00	23.19	23.34	23.43	QPSK	1/0	24.00	23.15	23.37	23.44
	1/2	24.00	23.31	23.43	23.41		1/7	24.00	23.24	23.42	23.31
	1/5	24.00	23.11	23.31	23.36		1/14	24.00	23.13	23.35	23.38
	3/0	23.00	22.23	22.34	22.26		8/0	23.00	22.12	22.33	22.18
	3/1	23.00	22.25	22.37	22.34		8/3	23.00	22.14	22.38	22.24
	3/3	23.00	22.16	22.34	22.37		8/7	23.00	22.09	22.36	22.26
	6/0	23.00	22.07	22.29	22.20		15/0	23.00	22.05	22.35	22.24
16QAM	1/0	23.00	22.23	22.46	22.76	16QAM	1/0	23.00	22.11	22.89	22.46
	1/2	23.00	22.22	22.47	22.81		1/7	23.00	22.14	22.31	22.30
	1/5	23.00	22.17	22.45	22.68		1/14	23.00	22.00	22.76	22.45
	3/0	22.00	21.52	21.36	21.66		8/0	22.00	21.23	21.46	21.34
	3/1	22.00	21.42	21.42	21.64		8/3	22.00	21.26	21.46	21.41
	3/3	22.00	21.33	21.37	21.49		8/7	22.00	21.20	21.46	21.43
	6/0	22.00	21.25	21.49	21.25		15/0	22.00	21.11	21.39	21.21
64QAM	1/0	22.00	21.42	21.70	21.67	64QAM	1/0	22.00	21.60	21.49	21.75
	1/2	22.00	21.40	21.80	21.53		1/7	22.00	21.70	21.60	21.66
	1/5	22.00	21.51	21.72	21.49		1/14	22.00	21.44	21.44	21.64
	3/0	21.00	20.17	20.69	20.56		8/0	21.00	20.18	20.37	20.23
	3/1	21.00	20.18	20.67	20.57		8/3	21.00	20.23	20.44	20.33
	3/3	21.00	20.10	20.65	20.54		8/7	21.00	20.12	20.39	20.34
	6/0	21.00	20.16	20.27	20.63		15/0	21.00	20.03	20.42	20.37

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	24.00	23.35	23.57	23.49	QPSK	1/0	24.00	23.38	23.59	23.76
	1/12	24.00	23.20	23.53	23.42		1/24	24.00	23.13	23.40	23.41
	1/24	24.00	23.17	23.50	23.44		1/49	24.00	23.51	23.68	23.69
	12/0	23.00	22.19	22.38	22.41		25/0	23.00	22.26	22.31	22.38
	12/6	23.00	22.23	22.39	22.39		25/12	23.00	22.26	22.44	22.37
	12/13	23.00	22.18	22.33	22.38		25/25	23.00	22.36	22.49	22.42
	25/0	23.00	22.25	22.41	22.34		50/0	23.00	22.29	22.36	22.40
16QAM	1/0	23.00	22.48	22.94	22.63	16QAM	1/0	23.00	22.51	22.68	22.67
	1/12	23.00	22.38	22.91	22.46		1/24	23.00	22.20	22.82	22.37
	1/24	23.00	22.35	22.87	22.55		1/49	23.00	22.43	22.70	22.65
	12/0	22.00	21.28	21.55	21.46		25/0	22.00	21.18	21.37	21.48
	12/6	22.00	21.21	21.49	21.40		25/12	22.00	21.22	21.45	21.47
	12/13	22.00	21.26	21.44	21.43		25/25	22.00	21.29	21.48	21.46
	25/0	22.00	21.14	21.48	21.28		50/0	22.00	21.16	21.38	21.43
64QAM	1/0	22.00	21.31	21.78	21.81	64QAM	1/0	22.00	21.71	21.64	21.90
	1/12	22.00	21.15	21.72	21.57		1/24	22.00	21.45	21.51	21.54
	1/24	22.00	21.06	21.70	21.67		1/49	22.00	21.78	21.74	21.83
	12/0	21.00	20.24	20.33	20.45		25/0	21.00	20.20	20.37	20.42
	12/6	21.00	20.21	20.36	20.36		25/12	21.00	20.21	20.47	20.47
	12/13	21.00	20.21	20.27	20.39		25/25	21.00	20.26	20.52	20.50
	25/0	21.00	20.12	20.37	20.35		50/0	21.00	20.15	20.38	20.37

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	24.00	23.41	23.54	23.55	QPSK	1/0	24.00	23.46	23.34	23.29
	1/37	24.00	23.19	23.32	23.20		1/50	24.00	23.31	23.43	23.25
	1/74	24.00	23.60	23.69	23.55		1/99	24.00	**23.78**	23.63	23.49
	36/0	23.00	22.22	22.01	22.21		50/0	23.00	22.31	22.36	22.29
	36/19	23.00	22.19	22.34	22.23		50/25	23.00	22.26	22.32	22.30
	36/39	23.00	22.29	22.39	22.27		50/50	23.00	**22.43**	22.41	22.38
	75/0	23.00	22.22	22.33	22.32		100/0	23.00	22.32	22.42	22.39
16QAM	1/0	23.00	22.41	22.94	22.93	16QAM	1/0	23.00	22.87	22.91	22.68
	1/37	23.00	22.20	22.70	22.64		1/50	23.00	22.74	22.44	22.65
	1/74	23.00	22.60	22.70	22.67		1/99	23.00	22.75	22.81	22.90
	36/0	22.00	21.24	21.36	21.18		50/0	22.00	21.30	21.33	21.24
	36/19	22.00	21.16	21.39	21.22		50/25	22.00	21.29	21.30	21.29
	36/39	22.00	21.28	21.43	21.27		50/50	22.00	21.44	21.46	21.39
	75/0	22.00	21.25	21.31	21.30		100/0	22.00	21.32	21.42	21.33
64QAM	1/0	22.00	21.81	21.63	21.80	64QAM	1/0	22.00	21.68	21.77	21.73
	1/37	22.00	21.58	21.46	21.84		1/50	22.00	21.54	21.49	21.70
	1/74	22.00	21.94	21.79	21.92		1/99	22.00	21.91	21.70	21.99
	36/0	21.00	20.22	20.11	20.21		50/0	21.00	20.36	20.43	20.38
	36/19	21.00	20.20	20.40	20.20		50/25	21.00	20.31	20.38	20.44
	36/39	21.00	20.33	20.44	20.26		50/50	21.00	20.49	20.49	20.55
	75/0	21.00	20.24	20.33	20.37		100/0	21.00	20.33	20.42	20.47

Main Antenna_Receiver off

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	23.50	22.78	22.88	22.97	QPSK	1/0	23.50	22.68	22.88	22.94
	1/2	23.50	22.87	22.93	22.93		1/7	23.50	22.86	23.00	22.94
	1/5	23.50	22.75	22.88	22.95		1/14	23.50	22.66	22.86	22.91
	3/0	23.50	22.75	22.85	22.91		8/0	23.50	22.12	22.34	22.31
	3/1	23.50	22.81	22.88	22.95		8/3	23.50	22.14	22.37	22.39
	3/3	23.50	22.72	22.90	22.96		8/7	23.50	22.11	22.39	22.39
	6/0	23.50	22.09	22.31	22.36		15/0	23.50	22.10	22.38	22.35
16QAM	1/0	23.50	22.36	22.51	22.93	16QAM	1/0	23.50	22.21	22.86	22.47
	1/2	23.50	22.35	22.50	22.88		1/7	23.50	22.18	22.93	22.42
	1/5	23.50	22.29	22.53	23.05		1/14	23.50	22.13	22.80	22.44
	3/0	22.00	21.27	21.42	21.65		8/0	22.00	21.27	21.46	21.38
	3/1	22.00	21.38	21.51	21.63		8/3	22.00	21.32	21.50	21.42
	3/3	22.00	21.20	21.45	21.65		8/7	22.00	21.21	21.48	21.43
	6/0	22.00	21.29	21.53	21.30		15/0	22.00	21.11	21.42	21.34
64QAM	1/0	22.00	21.34	21.59	21.87	64QAM	1/0	22.00	21.57	21.50	21.68
	1/2	22.00	21.40	21.58	21.88		1/7	22.00	21.65	21.67	21.64
	1/5	22.00	21.23	21.62	21.81		1/14	22.00	21.50	21.45	21.66
	3/0	22.00	21.35	21.29	21.73		8/0	22.00	20.21	20.38	20.25
	3/1	22.00	21.40	21.37	21.75		8/3	22.00	20.25	20.43	20.33
	3/3	22.00	21.29	21.31	21.76		8/7	22.00	20.18	20.45	20.35
	6/0	22.00	20.40	20.41	20.34		15/0	22.00	20.08	20.41	20.36

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	23.50	22.88	23.04	23.01	QPSK	1/0	23.50	22.93	23.06	23.17
	1/12	23.50	22.74	23.03	22.91		1/24	23.50	22.66	22.94	22.88
	1/24	23.50	22.72	23.04	23.00		1/49	23.50	22.97	23.15	23.20
	12/0	23.50	22.21	22.38	22.44		25/0	23.50	22.19	22.34	22.37
	12/6	23.50	22.14	22.41	22.38		25/12	23.50	22.20	22.42	22.41
	12/13	23.50	22.17	22.32	22.39		25/25	23.50	22.26	22.48	22.42
	25/0	23.50	22.14	22.41	22.35		50/0	23.50	22.17	22.34	22.40
16QAM	1/0	23.50	22.49	22.94	22.64	16QAM	1/0	23.50	22.40	23.04	22.65
	1/12	23.50	22.39	22.92	22.50		1/24	23.50	22.15	22.83	22.39
	1/24	23.50	22.33	22.90	22.65		1/49	23.50	22.40	23.08	22.64
	12/0	22.00	21.30	21.58	21.48		25/0	22.00	21.21	21.38	21.49
	12/6	22.00	21.26	21.54	21.45		25/12	22.00	21.24	21.45	21.47
	12/13	22.00	21.25	21.46	21.45		25/25	22.00	21.30	21.48	21.49
	25/0	22.00	21.19	21.51	21.31		50/0	22.00	21.17	21.42	21.45
64QAM	1/0	22.00	21.24	21.76	21.72	64QAM	1/0	22.00	21.74	21.65	21.82
	1/12	22.00	21.14	21.74	21.61		1/24	22.00	21.49	21.50	21.55
	1/24	22.00	21.08	21.73	21.73		1/49	22.00	21.79	21.80	21.84
	12/0	22.00	20.23	20.36	20.47		25/0	22.00	20.23	20.39	20.42
	12/6	22.00	20.20	20.34	20.39		25/12	22.00	20.22	20.50	20.48
	12/13	22.00	20.22	20.28	20.40		25/25	22.00	20.28	20.55	20.51
	25/0	22.00	20.17	20.39	20.38		50/0	22.00	20.19	20.39	20.39

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	23.50	22.94	23.05	23.07	QPSK	1/0	23.50	22.91	23.01	22.91
	1/37	23.50	22.70	22.84	22.72		1/50	23.50	22.80	22.43	22.85
	1/74	23.50	23.08	23.19	23.11		1/99	23.50	23.15	**23.32**	23.14
	36/0	23.50	22.23	23.19	22.23		50/0	23.50	22.33	22.44	22.41
	36/19	23.50	22.21	22.36	22.25		50/25	23.50	22.28	22.35	22.44
	36/39	23.50	22.30	22.44	22.28		50/50	23.50	22.43	22.46	**22.49**
	75/0	23.50	22.25	22.35	22.33		100/0	23.50	22.33	22.45	22.50
16QAM	1/0	23.50	22.45	22.96	22.96	16QAM	1/0	23.50	22.75	22.93	22.90
	1/37	23.50	22.22	22.73	22.65		1/50	23.50	22.64	22.82	22.89
	1/74	23.50	22.60	23.07	23.03		1/99	23.50	22.97	23.21	23.11
	36/0	22.00	21.24	21.48	21.19		50/0	22.00	21.31	21.39	21.41
	36/19	22.00	21.17	21.41	21.23		50/25	22.00	21.25	21.29	21.42
	36/39	22.00	21.32	21.46	21.29		50/50	22.00	21.42	21.44	21.57
	75/0	22.00	21.27	21.33	21.32		100/0	22.00	21.31	21.40	21.47
64QAM	1/0	22.00	21.82	21.64	21.77	64QAM	1/0	22.00	21.69	21.76	21.77
	1/37	22.00	21.59	21.47	21.85		1/50	22.00	21.59	20.47	21.75
	1/74	22.00	21.96	21.82	21.81		1/99	22.00	21.56	21.54	21.70
	36/0	22.00	20.24	21.82	20.24		50/0	22.00	20.38	20.36	20.47
	36/19	22.00	20.19	20.42	20.22		50/25	22.00	20.34	20.34	20.46
	36/39	22.00	20.32	20.48	20.26		50/50	22.00	20.47	20.48	20.59
	75/0	22.00	20.29	20.35	20.37		100/0	22.00	20.31	20.36	20.44

Second Antenna_Receiver on

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	21.00	20.39	20.42	20.45	QPSK	1/0	21.00	20.40	20.48	20.46
	1/2	21.00	20.50	20.54	20.46		1/7	21.00	20.49	20.62	20.46
	1/5	21.00	20.33	20.38	20.46		1/14	21.00	20.27	20.50	20.43
	3/0	21.00	20.39	20.43	20.42		8/0	21.00	20.29	20.39	20.36
	3/1	21.00	20.43	20.45	20.43		8/3	21.00	20.33	20.41	20.37
	3/3	21.00	20.30	20.46	20.47		8/7	21.00	20.23	20.39	20.42
	6/0	21.00	20.24	20.33	20.37		15/0	21.00	20.26	20.40	20.39
16QAM	1/0	21.00	20.15	20.22	20.66	16QAM	1/0	21.00	20.05	20.65	20.21
	1/2	21.00	20.13	20.25	20.58		1/7	21.00	20.07	20.61	20.13
	1/5	21.00	20.12	20.24	20.60		1/14	21.00	19.91	20.57	20.15
	3/0	21.00	20.27	20.13	20.34		8/0	21.00	20.11	20.20	20.09
	3/1	21.00	20.30	20.20	20.34		8/3	21.00	20.16	20.24	20.15
	3/3	21.00	20.20	20.14	20.34		8/7	21.00	20.02	20.19	20.13
	6/0	21.00	20.12	20.23	19.99		15/0	21.00	19.96	20.11	20.03
64QAM	1/0	21.00	20.17	20.30	20.54	64QAM	1/0	21.00	20.44	20.20	20.43
	1/2	21.00	20.21	20.32	20.60		1/7	21.00	20.44	20.33	20.31
	1/5	21.00	20.06	20.36	20.52		1/14	21.00	20.29	20.24	20.35
	3/0	21.00	20.17	20.06	20.43		8/0	21.00	19.52	19.65	19.49
	3/1	21.00	20.24	20.08	20.46		8/3	21.00	19.58	19.65	19.56
	3/3	21.00	20.12	20.03	20.48		8/7	21.00	19.48	19.65	19.55
	6/0	21.00	19.75	19.63	19.55		15/0	21.00	19.42	19.66	19.60

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	21.00	20.30	20.18	20.34	QPSK	1/0	21.00	20.25	20.32	20.35
	1/12	21.00	20.15	20.20	20.20		1/24	21.00	20.02	20.17	20.11
	1/24	21.00	20.12	20.22	20.27		1/49	21.00	20.27	20.44	20.30
	12/0	21.00	20.39	20.44	20.48		25/0	21.00	20.34	20.38	20.41
	12/6	21.00	20.33	20.43	20.41		25/12	21.00	20.37	20.46	20.45
	12/13	21.00	20.36	20.45	20.41		25/25	21.00	20.45	20.46	20.43
	25/0	21.00	20.33	20.46	20.40		50/0	21.00	20.36	20.48	20.43
16QAM	1/0	21.00	20.40	20.68	20.39	16QAM	1/0	21.00	20.26	20.72	20.34
	1/12	21.00	20.26	20.64	20.25		1/24	21.00	20.01	20.54	20.15
	1/24	21.00	20.22	20.70	20.33		1/49	21.00	20.21	20.76	20.31
	12/0	21.00	20.16	20.30	20.21		25/0	21.00	20.02	20.12	20.16
	12/6	21.00	20.09	20.30	20.14		25/12	21.00	20.09	20.17	20.20
	12/13	21.00	20.13	20.26	20.16		25/25	21.00	20.18	20.15	20.20
	25/0	21.00	20.05	20.21	20.04		50/0	21.00	20.05	20.22	20.15
64QAM	1/0	21.00	20.15	20.59	20.43	64QAM	1/0	21.00	20.61	20.41	20.52
	1/12	21.00	20.01	20.48	20.35		1/24	21.00	20.35	20.26	20.28
	1/24	21.00	19.99	20.51	20.44		1/49	21.00	20.59	20.53	20.48
	12/0	21.00	19.59	19.59	19.72		25/0	21.00	19.57	19.64	19.68
	12/6	21.00	19.56	19.60	19.65		25/12	21.00	19.56	19.71	19.74
	12/13	21.00	19.58	19.57	19.64		25/25	21.00	19.66	19.72	19.73
	25/0	21.00	19.48	19.60	19.59		50/0	21.00	19.53	19.71	19.61

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	21.00	20.29	20.31	20.22	QPSK	1/0	21.00	20.74	20.68	20.67
	1/37	21.00	19.97	20.05	19.97		1/50	21.00	20.61	20.75	20.64
	1/74	21.00	20.30	20.35	20.20		1/99	21.00	**20.90**	**20.76**	**20.77**
	36/0	21.00	20.38	20.65	20.27		50/0	21.00	20.36	20.39	**20.45**
	36/19	21.00	20.40	20.35	20.26		50/25	21.00	20.43	20.40	20.35
	36/39	21.00	20.44	20.41	20.29		50/50	21.00	**20.46**	**20.43**	20.44
	75/0	21.00	20.36	20.40	20.29		100/0	21.00	20.62	20.59	**20.68**
16QAM	1/0	21.00	20.27	20.66	20.62	16QAM	1/0	21.00	20.65	20.58	20.64
	1/37	21.00	19.96	20.43	20.43		1/50	21.00	20.54	20.17	20.61
	1/74	21.00	20.32	20.70	20.66		1/99	21.00	20.71	20.69	20.76
	36/0	21.00	20.03	20.70	19.93		50/0	21.00	20.08	20.07	20.14
	36/19	21.00	20.05	20.09	19.92		50/25	21.00	20.18	20.07	20.11
	36/39	21.00	20.12	20.16	20.00		50/50	21.00	20.17	20.10	20.21
	75/0	21.00	20.04	20.09	19.98		100/0	21.00	20.12	20.05	20.21
64QAM	1/0	21.00	20.63	20.40	20.80	64QAM	1/0	21.00	20.37	20.46	20.74
	1/37	21.00	20.33	20.14	20.59		1/50	21.00	20.25	19.67	20.77
	1/74	21.00	20.66	20.43	20.87		1/99	21.00	20.40	20.54	20.86
	36/0	21.00	19.55	20.43	19.46		50/0	21.00	19.57	19.66	19.72
	36/19	21.00	19.59	19.61	19.45		50/25	21.00	19.63	19.65	19.64
	36/39	21.00	19.66	19.70	19.46		50/50	21.00	19.67	19.70	19.74
	75/0	21.00	19.57	19.61	19.54		100/0	21.00	19.60	19.60	19.70

Second Antenna_Receiver off

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	24.00	22.90	23.09	23.10	QPSK	1/0	24.00	22.94	23.13	23.18
	1/2	24.00	23.00	23.15	23.09		1/7	24.00	23.02	23.20	23.29
	1/5	24.00	22.92	23.10	23.04		1/14	24.00	22.95	23.11	23.02
	3/0	24.00	23.00	23.09	22.99		8/0	23.00	21.87	22.12	22.05
	3/1	24.00	23.03	23.09	23.03		8/3	23.00	21.95	22.13	22.12
	3/3	24.00	22.98	23.11	23.07		8/7	23.00	21.87	22.15	21.99
	6/0	23.00	21.84	22.08	21.92		15/0	23.00	21.86	22.11	21.99
16QAM	1/0	23.00	21.98	22.61	22.21	16QAM	1/0	23.00	21.93	22.67	22.29
	1/2	23.00	21.98	22.61	22.18		1/7	23.00	21.94	22.76	22.14
	1/5	23.00	21.98	22.57	22.19		1/14	23.00	21.87	22.60	22.04
	3/0	23.00	22.18	22.34	22.12		8/0	22.00	21.05	21.25	21.13
	3/1	23.00	22.19	22.37	22.18		8/3	22.00	21.10	21.25	21.17
	3/3	23.00	22.14	22.29	22.18		8/7	22.00	21.03	21.26	21.03
	6/0	22.00	21.02	21.06	21.15		15/0	22.00	20.91	21.18	20.96
64QAM	1/0	22.00	21.14	21.53	21.09	64QAM	1/0	22.00	21.33	21.23	21.48
	1/2	22.00	21.17	21.63	21.13		1/7	22.00	21.41	21.40	21.45
	1/5	22.00	21.20	21.55	21.15		1/14	22.00	21.30	21.20	21.29
	3/0	22.00	20.89	21.47	21.15		8/0	21.00	19.96	20.14	20.03
	3/1	22.00	20.92	21.51	21.15		8/3	21.00	20.03	20.17	20.06
	3/3	22.00	20.84	21.47	21.21		8/7	21.00	19.96	20.17	19.98
	6/0	21.00	19.93	20.09	20.25		15/0	21.00	19.87	20.19	20.04

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	24.00	23.13	23.22	23.32	QPSK	1/0	24.00	23.15	23.32	23.47
	1/12	24.00	23.07	23.20	23.15		1/24	24.00	22.92	23.17	23.08
	1/24	24.00	23.05	23.26	23.14		1/49	24.00	23.26	23.56	23.45
	12/0	23.00	22.00	22.14	22.22		25/0	23.00	21.99	22.11	22.09
	12/6	23.00	21.98	22.13	22.19		25/12	23.00	21.89	22.19	22.12
	12/13	23.00	21.98	22.08	22.05		25/25	23.00	21.98	22.26	22.23
	25/0	23.00	21.95	22.19	22.13		50/0	23.00	22.00	22.13	22.14
16QAM	1/0	23.00	22.26	22.69	22.45	16QAM	1/0	23.00	22.25	22.78	22.35
	1/12	23.00	22.14	22.70	22.31		1/24	23.00	22.02	22.56	22.09
	1/24	23.00	22.16	22.66	22.27		1/49	23.00	22.31	22.86	22.41
	12/0	22.00	21.08	21.32	21.31		25/0	22.00	20.99	21.16	21.23
	12/6	22.00	21.06	21.29	21.21		25/12	22.00	20.95	21.22	21.20
	12/13	22.00	21.08	21.21	21.11		25/25	22.00	21.01	21.26	21.31
	25/0	22.00	20.99	21.25	21.10		50/0	22.00	20.96	21.17	21.16
64QAM	1/0	22.00	21.00	21.60	21.56	64QAM	1/0	22.00	21.55	21.48	21.54
	1/12	22.00	20.99	21.55	21.38		1/24	22.00	21.29	21.32	21.29
	1/24	22.00	20.92	21.51	21.30		1/49	22.00	21.63	21.61	21.60
	12/0	21.00	20.03	20.10	20.25		25/0	21.00	20.05	20.17	20.17
	12/6	21.00	20.03	20.10	20.19		25/12	21.00	19.96	20.25	20.20
	12/13	21.00	20.03	20.02	20.05		25/25	21.00	20.01	20.30	20.33
	25/0	21.00	19.93	20.12	20.15		50/0	21.00	20.01	20.16	20.11

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	24.00	23.26	23.24	23.28	QPSK	1/0	24.00	23.40	23.26	23.25
	1/37	24.00	22.90	23.05	22.91		1/50	24.00	23.37	23.27	23.22
	1/74	24.00	23.39	23.60	23.34		1/99	24.00	**23.62**	23.43	23.48
	36/0	23.00	22.06	22.10	22.01		50/0	23.00	22.09	22.10	22.22
	36/19	23.00	21.98	22.08	21.94		50/25	23.00	22.08	22.08	22.10
	36/39	23.00	22.10	22.22	21.99		50/50	23.00	22.27	**22.31**	22.22
	75/0	23.00	22.05	22.09	22.00		100/0	23.00	22.22	22.27	22.23
16QAM	1/0	23.00	22.32	22.69	22.68	16QAM	1/0	23.00	22.73	22.76	22.69
	1/37	23.00	21.92	22.47	22.36		1/50	23.00	22.51	21.28	22.42
	1/74	23.00	22.49	22.31	22.80		1/99	23.00	22.99	22.96	22.88
	36/0	22.00	21.07	21.08	20.95		50/0	22.00	21.04	21.06	21.14
	36/19	22.00	21.00	21.17	20.94		50/25	22.00	21.10	21.05	21.06
	36/39	22.00	21.09	21.23	21.02		50/50	22.00	21.28	21.28	21.23
	75/0	22.00	21.04	21.10	21.02		100/0	22.00	21.21	21.25	21.21
64QAM	1/0	22.00	21.65	21.44	21.93	64QAM	1/0	22.00	21.63	21.99	21.54
	1/37	22.00	21.32	21.20	21.56		1/50	22.00	21.44	20.32	21.36
	1/74	22.00	21.85	21.73	21.64		1/99	22.00	21.95	21.67	21.77
	36/0	21.00	20.07	20.13	20.00		50/0	21.00	20.15	20.08	20.22
	36/19	21.00	20.04	20.15	19.96		50/25	21.00	20.15	20.10	20.10
	36/39	21.00	20.12	20.25	19.96		50/50	21.00	20.32	20.30	20.25
	75/0	21.00	20.09	20.10	20.07		100/0	21.00	20.22	20.21	20.24

Note: The tested channels are marks in bold.

3. Conducted power measurement results of LTE B5

Main Antenna_Receiver on

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	24.00	23.39	23.37	23.43	QPSK	1/0	24.00	23.23	23.43	23.54
	1/2	24.00	23.42	23.74	23.88		1/7	24.00	23.33	23.85	23.91
	1/5	24.00	23.37	23.68	23.81		1/14	24.00	23.27	23.74	23.80
	3/0	24.00	23.35	23.68	23.80		8/0	23.00	22.22	22.65	22.73
	3/1	24.00	23.37	23.75	23.81		8/3	23.00	22.24	22.64	22.80
	3/3	24.00	23.39	23.63	23.82		8/7	23.00	22.19	22.63	22.76
	6/0	23.00	22.32	22.61	22.74		15/0	23.00	22.26	22.65	22.80
16QAM	1/0	23.00	22.43	22.47	22.99	16QAM	1/0	23.00	22.31	22.79	22.52
	1/2	23.00	22.37	22.84	22.84		1/7	23.00	22.33	22.85	22.79
	1/5	23.00	22.46	22.75	22.85		1/14	23.00	22.34	22.86	22.79
	3/0	23.00	22.55	22.67	22.89		8/0	22.00	21.32	21.73	21.76
	3/1	23.00	22.57	22.73	22.96		8/3	22.00	21.39	21.74	21.84
	3/3	23.00	22.64	22.68	22.92		8/7	22.00	21.34	21.70	21.80
	6/0	22.00	21.49	21.78	21.64		15/0	22.00	21.27	21.66	21.73
64QAM	1/0	22.00	21.52	21.64	21.83	64QAM	1/0	22.00	21.71	21.44	21.72
	1/2	22.00	21.47	21.82	21.80		1/7	22.00	21.75	21.88	21.74
	1/5	22.00	21.44	21.83	21.70		1/14	22.00	21.74	21.83	21.67
	3/0	22.00	21.51	21.54	21.66		8/0	21.00	20.27	20.66	20.65
	3/1	22.00	21.56	21.56	21.71		8/3	21.00	20.36	20.70	20.74
	3/3	22.00	21.57	21.52	21.70		8/7	21.00	20.28	20.64	20.70
	6/0	21.00	20.65	20.62	20.61		15/0	21.00	20.25	20.68	20.77

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829	20525/ 836.5	20600/ 844
QPSK	1/0	24.00	23.50	23.53	23.49	QPSK	1/0	24.00	23.49	23.73	23.90
	1/12	24.00	23.50	23.72	23.86		1/24	24.00	23.30	23.72	**23.93**
	1/24	24.00	23.37	23.76	23.76		1/49	24.00	23.66	23.74	23.77
	12/0	23.00	22.37	22.66	22.70		25/0	23.00	22.38	22.74	22.56
	12/6	23.00	22.33	22.67	22.80		25/12	23.00	22.44	22.71	22.61
	12/13	23.00	22.40	22.64	22.90		25/25	23.00	22.58	**22.81**	22.70
	25/0	23.00	22.33	22.66	22.85		50/0	23.00	22.47	22.76	22.66
16QAM	1/0	23.00	22.64	22.95	22.62	16QAM	1/0	23.00	22.56	22.89	22.71
	1/12	23.00	22.66	22.88	22.97		1/24	23.00	22.38	22.73	22.89
	1/24	23.00	22.52	22.87	22.90		1/49	23.00	22.66	22.72	22.65
	12/0	22.00	21.44	21.81	21.73		25/0	22.00	21.39	21.74	21.88
	12/6	22.00	21.40	21.78	21.79		25/12	22.00	21.42	21.67	21.92
	12/13	22.00	21.53	21.77	21.86		25/25	22.00	21.53	21.78	21.67
	25/0	22.00	21.38	21.72	21.68		50/0	22.00	21.35	21.72	21.62
64QAM	1/0	22.00	21.36	21.87	21.66	64QAM	1/0	22.00	21.99	21.81	21.71
	1/12	22.00	21.42	21.73	21.66		1/24	22.00	21.81	21.79	21.72
	1/24	22.00	21.29	21.73	21.70		1/49	22.00	21.83	21.77	21.71
	12/0	21.00	20.40	20.59	20.70		25/0	21.00	20.48	20.71	20.86
	12/6	21.00	20.36	20.57	20.76		25/12	21.00	20.49	20.68	20.92
	12/13	21.00	20.48	20.54	20.79		25/25	21.00	20.56	20.79	20.69
	25/0	21.00	20.35	20.61	20.73		50/0	21.00	20.41	20.72	20.87

Main Antenna_Receiver off

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	24.00	23.47	23.42	23.47	QPSK	1/0	24.00	23.31	23.44	23.54
	1/2	24.00	23.46	23.67	23.76		1/7	24.00	23.51	23.79	23.83
	1/5	24.00	23.44	23.65	23.84		1/14	24.00	23.35	23.70	23.76
	3/0	24.00	23.43	23.57	23.70		8/0	23.00	22.27	22.60	22.65
	3/1	24.00	23.50	23.65	23.74		8/3	23.00	22.32	22.59	22.75
	3/3	24.00	23.44	23.60	23.76		8/7	23.00	22.23	22.56	22.68
	6/0	23.00	22.37	22.56	22.64		15/0	23.00	22.30	22.56	22.69
16QAM	1/0	23.00	22.47	22.50	22.65	16QAM	1/0	23.00	22.33	22.87	22.52
	1/2	23.00	22.41	22.78	22.52		1/7	23.00	22.40	22.53	22.77
	1/5	23.00	22.50	22.73	22.57		1/14	23.00	22.31	22.53	22.74
	3/0	23.00	22.60	22.63	22.55		8/0	22.00	21.37	21.69	21.67
	3/1	23.00	22.61	22.69	22.61		8/3	22.00	21.43	21.69	21.76
	3/3	23.00	22.64	22.62	22.60		8/7	22.00	21.37	21.64	21.74
	6/0	22.00	21.55	21.72	21.59		15/0	22.00	21.34	21.63	21.67
64QAM	1/0	22.00	21.58	21.75	21.64	64QAM	1/0	22.00	21.83	21.55	21.82
	1/2	22.00	21.56	21.66	21.61		1/7	22.00	21.80	21.89	21.76
	1/5	22.00	21.50	21.69	21.54		1/14	22.00	21.86	21.83	22.00
	3/0	22.00	21.61	21.62	21.77		8/0	21.00	20.38	20.70	20.62
	3/1	22.00	21.65	21.65	21.79		8/3	21.00	20.43	20.69	20.70
	3/3	22.00	21.68	21.63	21.78		8/7	21.00	20.38	20.66	20.68
	6/0	21.00	20.74	20.71	20.69		15/0	21.00	20.36	20.68	20.79

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829	20525/ 836.5	20600/ 844
QPSK	1/0	24.00	23.53	23.59	23.55	QPSK	1/0	24.00	23.52	23.74	**23.92**
	1/12	24.00	23.57	23.78	23.78		1/24	24.00	23.37	23.68	23.85
	1/24	24.00	23.43	23.70	23.80		1/49	24.00	23.75	23.61	23.82
	12/0	23.00	22.44	22.59	22.74		25/0	23.00	22.44	22.68	22.84
	12/6	23.00	22.41	22.62	22.82		25/12	23.00	22.49	22.63	22.88
	12/13	23.00	22.47	22.59	22.86		25/25	23.00	22.52	22.72	**22.97**
	25/0	23.00	22.40	22.61	22.77		50/0	23.00	22.41	22.70	22.93
16QAM	1/0	23.00	22.67	22.64	22.67	16QAM	1/0	23.00	22.59	22.69	22.92
	1/12	23.00	22.71	22.79	22.84		1/24	23.00	22.49	22.91	22.85
	1/24	23.00	22.57	22.77	22.94		1/49	23.00	22.73	22.83	22.85
	12/0	22.00	21.50	21.74	21.80		25/0	22.00	21.42	21.95	22.00
	12/6	22.00	21.44	21.74	21.84		25/12	22.00	21.47	21.90	21.66
	12/13	22.00	21.57	21.74	21.88		25/25	22.00	21.56	21.62	21.69
	25/0	22.00	21.44	21.65	21.72		50/0	22.00	21.41	21.53	21.67
64QAM	1/0	22.00	21.44	21.78	21.76	64QAM	1/0	22.00	21.91	21.76	21.99
	1/12	22.00	21.50	21.70	21.70		1/24	22.00	21.72	21.63	21.96
	1/24	22.00	21.36	21.70	21.73		1/49	22.00	21.63	21.81	21.94
	12/0	21.00	20.51	20.57	20.80		25/0	21.00	20.56	20.77	20.85
	12/6	21.00	20.46	20.59	20.85		25/12	21.00	20.59	20.72	20.92
	12/13	21.00	20.57	20.56	20.88		25/25	21.00	20.67	20.79	20.98
	25/0	21.00	20.44	20.59	20.80		50/0	21.00	20.47	20.75	20.87

Second Antenna_Receiver on

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	24.00	23.21	23.23	23.39	QPSK	1/0	24.00	23.06	23.25	23.45
	1/2	24.00	23.34	23.54	23.59		1/7	24.00	23.15	23.73	23.66
	1/5	24.00	23.22	23.43	23.56		1/14	24.00	23.11	23.49	23.52
	3/0	24.00	23.29	23.44	23.50		8/0	23.00	22.09	22.37	22.54
	3/1	24.00	23.38	23.47	23.54		8/3	23.00	22.15	22.37	22.60
	3/3	24.00	23.21	23.38	23.56		8/7	23.00	22.09	22.35	22.57
	6/0	23.00	22.18	22.33	22.47		15/0	23.00	22.14	22.37	22.59
16QAM	1/0	23.00	22.62	22.16	22.34	16QAM	1/0	23.00	22.10	22.72	22.37
	1/2	23.00	22.69	22.37	22.70		1/7	23.00	22.20	22.34	22.62
	1/5	23.00	22.60	22.42	22.65		1/14	23.00	22.06	22.04	22.59
	3/0	23.00	22.37	22.54	22.54		8/0	22.00	21.22	21.55	21.58
	3/1	23.00	22.43	22.58	22.67		8/3	22.00	21.28	21.55	21.65
	3/3	23.00	22.29	22.52	22.57		8/7	22.00	21.22	21.52	21.59
	6/0	22.00	21.10	21.53	21.70		15/0	22.00	21.18	21.48	21.55
64QAM	1/0	22.00	21.23	21.47	21.76	64QAM	1/0	22.00	21.49	21.30	21.68
	1/2	22.00	21.32	21.63	21.99		1/7	22.00	21.58	21.63	21.87
	1/5	22.00	21.24	21.63	21.92		1/14	22.00	21.43	21.59	21.76
	3/0	22.00	21.38	21.34	21.83		8/0	21.00	20.11	20.40	20.39
	3/1	22.00	21.41	21.32	21.92		8/3	21.00	20.20	20.43	20.51
	3/3	22.00	21.35	21.32	21.86		8/7	21.00	20.14	20.37	20.45
	6/0	21.00	20.50	20.44	20.45		15/0	21.00	20.11	20.41	20.55

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829	20525/ 836.5	20600/ 844
QPSK	1/0	24.00	23.28	23.32	23.49	QPSK	1/0	24.00	23.36	23.56	23.73
	1/12	24.00	23.31	23.59	23.70		1/24	24.00	23.27	23.55	23.66
	1/24	24.00	23.32	23.56	23.68		1/49	24.00	23.49	**23.94**	23.42
	12/0	23.00	22.23	22.50	22.56		25/0	23.00	22.29	22.67	22.65
	12/6	23.00	22.21	22.47	22.62		25/12	23.00	22.24	22.54	22.71
	12/13	23.00	22.17	22.42	22.63		25/25	23.00	22.31	22.60	**22.77**
	25/0	23.00	22.20	22.47	22.58		50/0	23.00	22.27	22.56	22.74
16QAM	1/0	23.00	22.36	22.83	22.55	16QAM	1/0	23.00	22.41	22.58	22.15
	1/12	23.00	22.46	22.33	22.76		1/24	23.00	22.31	22.38	22.19
	1/24	23.00	22.44	22.43	22.69		1/49	23.00	22.48	22.74	22.99
	12/0	22.00	21.35	21.65	21.61		25/0	22.00	21.29	21.49	21.72
	12/6	22.00	21.32	21.62	21.65		25/12	22.00	21.26	21.43	21.76
	12/13	22.00	21.29	21.57	21.69		25/25	22.00	21.30	21.54	21.81
	25/0	22.00	21.27	21.52	21.53		50/0	22.00	21.26	21.45	21.80
64QAM	1/0	22.00	21.13	21.79	21.64	64QAM	1/0	22.00	21.82	21.67	21.88
	1/12	22.00	21.21	21.77	21.87		1/24	22.00	21.70	21.53	21.85
	1/24	22.00	21.19	21.74	21.88		1/49	22.00	21.92	21.96	21.99
	12/0	21.00	20.31	20.32	20.58		25/0	21.00	20.35	20.57	20.65
	12/6	21.00	20.27	20.32	20.65		25/12	21.00	20.30	20.52	20.72
	12/13	21.00	20.24	20.26	20.69		25/25	21.00	20.34	20.62	20.81
	25/0	21.00	20.24	20.33	20.59		50/0	21.00	20.31	20.54	20.64

Second Antenna_Receiver off

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	24.00	23.25	23.28	23.29	QPSK	1/0	24.00	23.03	23.30	23.37
	1/2	24.00	23.20	23.58	23.52		1/7	24.00	23.19	23.73	23.51
	1/5	24.00	23.20	23.55	23.52		1/14	24.00	23.08	23.48	23.48
	3/0	24.00	23.13	23.53	23.43		8/0	23.00	22.00	22.42	22.37
	3/1	24.00	23.19	23.55	23.50		8/3	23.00	22.03	22.47	22.45
	3/3	24.00	23.28	23.49	23.49		8/7	23.00	22.02	22.42	22.42
	6/0	23.00	22.08	22.44	22.37		15/0	23.00	22.07	22.45	22.42
16QAM	1/0	23.00	22.29	22.84	22.20	16QAM	1/0	23.00	22.08	22.66	22.27
	1/2	23.00	22.30	22.95	22.39		1/7	23.00	22.13	22.03	22.45
	1/5	23.00	22.29	22.97	22.45		1/14	23.00	22.02	22.85	22.46
	3/0	23.00	22.16	22.63	22.52		8/0	22.00	21.13	21.54	21.40
	3/1	23.00	22.27	22.63	22.58		8/3	22.00	21.21	21.55	21.49
	3/3	23.00	22.26	22.58	22.55		8/7	22.00	21.18	21.49	21.43
	6/0	22.00	21.24	21.33	21.53		15/0	22.00	21.13	21.46	21.40
64QAM	1/0	22.00	21.26	21.53	21.58	64QAM	1/0	22.00	21.46	21.30	21.53
	1/2	22.00	21.27	21.68	21.85		1/7	22.00	21.46	21.66	21.72
	1/5	22.00	21.26	21.73	21.80		1/14	22.00	21.44	21.51	21.65
	3/0	22.00	21.28	21.39	21.71		8/0	21.00	20.05	20.42	20.27
	3/1	22.00	21.30	21.41	21.74		8/3	21.00	20.14	20.49	20.37
	3/3	22.00	21.35	21.39	21.72		8/7	21.00	20.08	20.43	20.32
	6/0	21.00	20.43	20.49	20.34		15/0	21.00	20.05	20.47	20.42

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829	20525/ 836.5	20600/ 844
QPSK	1/0	24.00	23.30	23.39	23.39	QPSK	1/0	24.00	23.33	23.57	23.67
	1/12	24.00	23.29	23.57	23.57		1/24	24.00	23.24	23.51	23.74
	1/24	24.00	23.29	23.47	23.59		1/49	24.00	23.61	**23.85**	23.33
	12/0	23.00	22.16	22.41	22.59		25/0	23.00	22.23	22.52	22.59
	12/6	23.00	22.18	22.42	22.54		25/12	23.00	22.20	22.45	22.64
	12/13	23.00	22.18	22.45	22.56		25/25	23.00	22.28	22.49	**22.73**
	25/0	23.00	22.17	22.45	22.48		50/0	23.00	22.29	22.55	22.70
16QAM	1/0	23.00	22.39	22.81	22.52	16QAM	1/0	23.00	22.37	22.94	22.81
	1/12	23.00	22.37	22.41	22.63		1/24	23.00	22.30	22.87	22.60
	1/24	23.00	22.41	22.91	22.64		1/49	23.00	22.59	22.46	22.58
	12/0	22.00	21.26	21.57	21.65		25/0	22.00	21.27	21.56	21.56
	12/6	22.00	21.28	21.58	21.57		25/12	22.00	21.24	21.50	21.59
	12/13	22.00	21.28	21.58	21.60		25/25	22.00	21.28	21.51	21.68
	25/0	22.00	21.19	21.51	21.46		50/0	22.00	21.24	21.57	21.59
64QAM	1/0	22.00	21.14	21.73	21.55	64QAM	1/0	22.00	21.64	21.89	21.69
	1/12	22.00	21.14	21.87	21.73		1/24	22.00	21.52	21.81	21.70
	1/24	22.00	21.19	21.73	21.77		1/49	22.00	21.87	21.61	21.72
	12/0	21.00	20.23	20.33	20.60		25/0	21.00	20.33	20.55	20.56
	12/6	21.00	20.20	20.38	20.50		25/12	21.00	20.32	20.50	20.60
	12/13	21.00	20.21	20.33	20.55		25/25	21.00	20.38	20.49	20.68
	25/0	21.00	20.18	20.37	20.50		50/0	21.00	20.30	20.55	20.62

Note: The tested channels are marks in bold.

4. Conducted power measurement results of LTE B7

Main Antenna_Receiver on

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535	21425/ 2567.5				20800/ 2505	21100/ 2535	21400/ 2565
QPSK	1/0	23.80	21.93	22.74	22.82	QPSK	1/0	23.80	22.56	22.65	22.73
	1/12	23.80	22.26	22.72	22.72		1/24	23.80	22.34	22.67	22.56
	1/24	23.80	22.11	22.45	22.75		1/49	23.80	22.07	22.12	22.52
	12/0	22.80	22.10	22.40	22.11		25/0	22.80	22.15	22.28	22.14
	12/6	22.80	22.20	22.37	22.09		25/12	22.80	22.32	22.31	22.12
	12/13	22.80	22.21	22.32	22.08		25/25	22.80	22.27	22.25	22.09
	25/0	22.80	22.14	22.33	22.09		50/0	22.80	22.18	22.31	22.18
16QAM	1/0	22.80	21.27	22.08	22.76	16QAM	1/0	22.80	20.84	22.11	22.27
	1/12	22.80	21.60	22.06	22.63		1/24	22.80	21.41	22.15	22.13
	1/24	22.80	21.44	21.77	22.46		1/49	22.80	21.12	21.57	21.70
	12/0	21.80	21.37	21.42	21.27		25/0	21.80	21.31	21.32	21.24
	12/6	21.80	21.47	21.39	21.24		25/12	21.80	21.49	21.29	21.23
	12/13	21.80	21.47	21.33	21.25		25/25	21.80	21.43	21.22	21.19
	25/0	21.80	21.30	21.31	21.18		50/0	21.80	21.32	21.33	21.20
64QAM	1/0	21.80	20.54	21.05	21.66	64QAM	1/0	21.80	20.34	21.05	21.65
	1/12	21.80	20.90	21.03	21.43		1/24	21.80	20.96	21.12	21.34
	1/24	21.80	20.72	20.71	21.36		1/49	21.80	20.64	20.53	21.06
	12/0	20.80	20.53	20.39	20.07		25/0	20.80	20.49	20.36	20.19
	12/6	20.80	20.51	20.34	20.03		25/12	20.80	20.58	20.39	20.19
	12/13	20.80	20.45	20.33	20.00		25/25	20.80	20.51	20.32	20.16
	25/0	20.80	20.49	20.32	20.04		50/0	20.80	20.50	20.36	20.17

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535	21375/ 2562.5				20850/ 2510	21100/ 2535	21350/ 2560
QPSK	1/0	23.80	22.01	22.88	22.89	QPSK	1/0	23.80	22.03	22.88	22.55
	1/37	23.80	22.41	22.57	22.85		1/50	23.80	22.54	22.52	**22.94**
	1/74	23.80	22.47	22.25	22.69		1/99	23.80	22.61	22.05	22.60
	36/0	22.80	22.24	22.36	22.13		50/0	22.80	22.30	22.38	22.18
	36/19	22.80	22.41	22.36	22.09		50/25	22.80	**22.41**	22.35	22.16
	36/39	22.80	22.43	22.39	22.15		50/50	22.80	22.36	22.35	22.12
	75/0	22.80	22.33	22.37	22.10		100/0	22.80	22.43	22.40	22.16
16QAM	1/0	22.80	21.08	22.39	22.47	16QAM	1/0	22.80	21.64	22.50	22.12
	1/37	22.80	21.49	22.09	22.45		1/50	22.80	22.18	22.15	22.39
	1/74	22.80	21.56	21.75	22.27		1/99	22.80	22.24	21.71	22.18
	36/0	21.80	21.40	21.40	21.11		50/0	21.80	21.41	21.41	21.14
	36/19	21.80	21.48	21.40	21.09		50/25	21.80	21.35	21.39	21.14
	36/39	21.80	21.40	21.41	21.18		50/50	21.80	21.35	21.41	21.13
	75/0	21.80	21.40	21.37	21.13		100/0	21.80	21.47	21.39	21.19
64QAM	1/0	21.80	20.62	21.32	21.72	64QAM	1/0	21.80	20.62	21.34	21.63
	1/37	21.80	21.05	21.05	21.73		1/50	21.80	21.18	21.54	21.43
	1/74	21.80	21.09	20.69	21.70		1/99	21.80	21.23	21.09	21.52
	36/0	20.80	20.43	20.44	20.16		50/0	20.80	20.49	20.42	20.32
	36/19	20.80	20.48	20.45	20.07		50/25	20.80	20.44	20.42	20.24
	36/39	20.80	20.45	20.45	20.18		50/50	20.80	20.42	20.44	20.19
	75/0	20.80	20.42	20.38	20.17		100/0	20.80	20.48	20.38	20.24

Main Antenna_Receiver off

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535	21425/ 2567.5				20800/ 2505	21100/ 2535	21400/ 2565
QPSK	1/0	23.00	22.03	22.70	22.84	QPSK	1/0	23.00	21.75	22.62	22.81
	1/12	23.00	22.33	22.72	22.66		1/24	23.00	22.31	22.63	22.68
	1/24	23.00	22.16	22.44	22.51		1/49	23.00	22.05	22.07	22.40
	12/0	22.50	22.14	22.40	22.09		25/0	22.50	22.13	22.31	22.14
	12/6	22.50	22.23	22.36	22.08		25/12	22.50	22.29	22.29	22.13
	12/13	22.50	22.22	22.32	22.06		25/25	22.50	22.24	22.26	22.10
	25/0	22.50	22.14	22.34	22.10		50/0	22.50	22.16	22.32	22.18
16QAM	1/0	23.00	21.24	22.07	22.78	16QAM	1/0	23.00	21.24	22.36	22.41
	1/12	23.00	21.57	22.04	22.65		1/24	23.00	21.80	22.39	22.16
	1/24	23.00	21.41	21.75	22.43		1/49	23.00	21.47	21.80	21.84
	12/0	22.00	21.35	21.42	21.29		25/0	22.00	21.60	21.37	21.27
	12/6	22.00	21.45	21.39	21.25		25/12	22.00	21.52	21.34	21.26
	12/13	22.00	21.45	21.36	21.26		25/25	22.00	21.46	21.28	21.21
	25/0	22.00	21.28	21.34	21.18		50/0	22.00	21.56	21.37	21.23
64QAM	1/0	22.00	20.68	21.19	21.24	64QAM	1/0	22.00	20.80	21.62	21.60
	1/12	22.00	21.03	21.18	21.17		1/24	22.00	21.39	21.65	21.32
	1/24	22.00	20.85	20.84	21.11		1/49	22.00	21.01	21.06	21.31
	12/0	21.00	20.65	20.42	20.24		25/0	21.00	20.62	20.43	20.27
	12/6	21.00	20.56	20.38	20.21		25/12	21.00	20.60	20.39	20.25
	12/13	21.00	20.51	20.38	20.21		25/25	21.00	20.55	20.32	20.23
	25/0	21.00	20.50	20.36	20.15		50/0	21.00	20.55	20.40	20.24

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535	21375/ 2562.5				20850/ 2510	21100/ 2535	21350/ 2560
QPSK	1/0	23.00	21.98	22.69	22.61	QPSK	1/0	23.00	22.12	**22.86**	**22.55**
	1/37	23.00	22.36	22.54	22.55		1/50	23.00	22.61	22.55	22.52
	1/74	23.00	22.42	22.21	22.60		1/99	23.00	**22.68**	22.07	22.44
	36/0	22.50	22.20	22.37	22.20		50/0	22.50	22.35	**22.40**	**22.19**
	36/19	22.50	22.36	22.36	22.14		50/25	22.50	**22.40**	22.37	22.17
	36/39	22.50	22.42	22.37	22.22		50/50	22.50	22.37	22.36	22.13
	75/0	22.50	22.28	22.37	22.13		100/0	22.50	**22.45**	22.41	22.17
16QAM	1/0	23.00	21.57	22.64	22.15	16QAM	1/0	23.00	22.47	22.82	22.40
	1/37	23.00	21.96	22.36	22.09		1/50	23.00	22.57	22.55	22.59
	1/74	23.00	21.97	22.01	22.15		1/99	23.00	22.60	22.08	22.48
	36/0	22.00	21.55	21.35	21.26		50/0	22.00	21.50	21.35	21.25
	36/19	22.00	21.55	21.38	21.21		50/25	22.00	21.43	21.36	21.23
	36/39	22.00	21.49	21.37	21.27		50/50	22.00	21.41	21.35	21.20
	75/0	22.00	21.50	21.33	21.20		100/0	22.00	21.57	21.38	21.24
64QAM	1/0	22.00	20.80	21.34	21.76	64QAM	1/0	22.00	20.71	21.94	21.64
	1/37	22.00	21.23	21.24	21.71		1/50	22.00	21.27	21.65	21.45
	1/74	22.00	21.28	20.88	21.77		1/99	22.00	21.32	21.19	21.60
	36/0	21.00	20.51	20.41	20.14		50/0	21.00	20.52	20.43	20.33
	36/19	21.00	20.55	20.41	20.09		50/25	21.00	20.46	20.44	20.26
	36/39	21.00	20.53	20.40	20.18		50/50	21.00	20.43	20.45	20.23
	75/0	21.00	20.48	20.34	20.18		100/0	21.00	20.50	20.44	20.19

Second Antenna_Receiver on

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535	21425/ 2567.5				20800/ 2505	21100/ 2535	21400/ 2565
QPSK	1/0	15.50	14.54	14.52	14.42	QPSK	1/0	15.50	14.55	14.58	14.54
	1/12	15.50	14.41	14.39	14.27		1/24	15.50	14.36	14.31	14.32
	1/24	15.50	14.43	14.38	14.31		1/49	15.50	14.51	14.45	14.31
	12/0	15.50	14.51	14.28	14.24		25/0	15.50	14.45	14.38	14.18
	12/6	15.50	14.37	14.28	14.22		25/12	15.50	14.37	14.28	14.27
	12/13	15.50	14.38	14.26	14.21		25/25	15.50	14.28	14.29	14.24
	25/0	15.50	14.41	14.27	14.24		50/0	15.50	14.41	14.27	14.22
16QAM	1/0	15.50	14.87	14.61	14.92	16QAM	1/0	15.50	14.71	15.01	14.40
	1/12	15.50	14.68	14.54	14.76		1/24	15.50	14.54	14.65	14.16
	1/24	15.50	14.71	14.49	14.72		1/49	15.50	14.57	14.82	14.24
	12/0	15.50	14.59	14.34	14.40		25/0	15.50	14.43	14.38	14.24
	12/6	15.50	14.45	14.35	14.36		25/12	15.50	14.41	14.26	14.30
	12/13	15.50	14.45	14.34	14.35		25/25	15.50	14.30	14.27	14.24
	25/0	15.50	14.34	14.28	14.30		50/0	15.50	14.34	14.29	14.16
64QAM	1/0	15.50	14.73	14.40	14.78	64QAM	1/0	15.50	15.07	14.67	14.64
	1/12	15.50	14.68	14.18	14.62		1/24	15.50	14.92	14.40	14.40
	1/24	15.50	14.62	14.20	14.53		1/49	15.50	14.96	14.53	14.52
	12/0	15.50	14.51	14.30	14.23		25/0	15.50	14.46	14.43	14.19
	12/6	15.50	14.41	14.30	14.14		25/12	15.50	14.40	14.31	14.30
	12/13	15.50	14.40	14.31	14.13		25/25	15.50	14.28	14.32	14.29
	25/0	15.50	14.38	14.25	14.17		50/0	15.50	14.38	14.31	14.13

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535	21375/ 2562.5				20850/ 2510	21100/ 2535	21350/ 2560
QPSK	1/0	15.50	14.41	14.28	14.16	QPSK	1/0	15.50	**15.11**	14.78	**14.66**
	1/37	15.50	14.47	14.36	14.16		1/50	15.50	15.08	14.86	14.60
	1/74	15.50	14.28	14.33	14.00		1/99	15.50	14.80	**14.89**	14.44
	36/0	15.50	14.49	14.27	14.19		50/0	15.50	**15.09**	14.71	14.51
	36/19	15.50	14.48	14.33	14.21		50/25	15.50	14.86	**15.06**	**14.76**
	36/39	15.50	14.36	14.31	14.16		50/50	15.50	14.75	14.73	14.56
	75/0	15.50	14.42	14.32	14.11		100/0	15.50	**15.11**	14.82	14.90
16QAM	1/0	15.50	14.45	14.70	14.61	16QAM	1/0	15.50	14.48	14.24	14.17
	1/37	15.50	14.49	14.76	14.47		1/50	15.50	14.47	14.34	14.17
	1/74	15.50	14.35	14.75	14.48		1/99	15.50	14.30	14.27	13.98
	36/0	15.50	14.45	14.32	14.14		50/0	15.50	14.46	14.26	14.16
	36/19	15.50	14.50	14.39	14.18		50/25	15.50	14.47	14.33	14.19
	36/39	15.50	14.33	14.38	14.17		50/50	15.50	14.36	14.30	14.22
	75/0	15.50	14.37	14.34	14.14		100/0	15.50	14.39	14.35	14.17
64QAM	1/0	15.50	14.87	14.43	14.84	64QAM	1/0	15.50	14.93	14.97	14.56
	1/37	15.50	14.93	14.45	14.72		1/50	15.50	14.90	15.08	14.48
	1/74	15.50	14.72	14.38	14.71		1/99	15.50	14.68	14.92	14.37
	36/0	15.50	14.49	14.37	14.17		50/0	15.50	14.47	14.32	14.25
	36/19	15.50	14.49	14.44	14.22		50/25	15.50	14.44	14.36	14.28
	36/39	15.50	14.34	14.39	14.13		50/50	15.50	14.36	14.33	14.28
	75/0	15.50	14.37	14.37	14.15		100/0	15.50	14.36	14.34	14.29

Second Antenna_Receiver off

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535	21425/ 2567.5				20800/ 2505	21100/ 2535	21400/ 2565
QPSK	1/0	19.00	18.24	18.24	18.21	QPSK	1/0	19.00	18.36	18.27	18.18
	1/12	19.00	18.12	18.10	17.97		1/24	19.00	18.07	18.02	17.82
	1/24	19.00	18.16	18.08	17.94		1/49	19.00	18.24	18.26	17.99
	12/0	19.00	18.14	18.00	17.85		25/0	19.00	18.13	18.01	17.93
	12/6	19.00	18.11	17.99	17.80		25/12	19.00	18.11	17.95	17.84
	12/13	19.00	18.05	17.95	17.81		25/25	19.00	17.98	17.95	17.85
	25/0	19.00	18.07	17.98	17.85		50/0	19.00	18.06	17.98	17.91
16QAM	1/0	19.00	18.45	18.26	18.50	16QAM	1/0	19.00	18.46	18.68	18.22
	1/12	19.00	18.29	18.26	18.39		1/24	19.00	18.16	18.45	17.86
	1/24	19.00	18.34	18.16	18.37		1/49	19.00	18.24	18.59	18.05
	12/0	19.00	18.23	18.05	17.99		25/0	19.00	18.13	18.03	18.00
	12/6	19.00	18.20	18.04	17.97		25/12	19.00	18.09	17.96	17.89
	12/13	19.00	18.12	18.04	17.95		25/25	19.00	17.99	17.98	17.91
	25/0	19.00	18.03	18.00	17.91		50/0	19.00	18.06	18.00	17.89
64QAM	1/0	19.00	18.50	17.99	18.43	64QAM	1/0	19.00	18.75	18.29	18.49
	1/12	19.00	18.34	17.93	18.25		1/24	19.00	18.47	18.12	18.07
	1/24	19.00	18.35	17.86	18.21		1/49	19.00	18.60	18.33	18.20
	12/0	19.00	18.17	18.00	17.76		25/0	19.00	18.13	18.02	17.94
	12/6	19.00	18.18	17.98	17.74		25/12	19.00	18.07	17.98	17.89
	12/13	19.00	18.08	17.93	17.70		25/25	19.00	17.98	17.99	17.90
	25/0	19.00	18.04	17.92	17.76		50/0	19.00	18.06	17.96	17.84

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535	21375/ 2562.5				20850/ 2510	21100/ 2535	21350/ 2560
QPSK	1/0	19.00	18.29	18.24	18.05	QPSK	1/0	19.00	**18.90**	**18.81**	18.63
	1/37	19.00	18.18	18.02	17.91		1/50	19.00	18.75	18.50	18.37
	1/74	19.00	18.25	18.19	18.06		1/99	19.00	18.87	18.77	**18.64**
	36/0	19.00	18.22	18.02	18.01		50/0	19.00	**18.42**	18.25	18.08
	36/19	19.00	18.26	18.03	17.93		50/25	19.00	18.40	18.23	18.15
	36/39	19.00	18.13	18.05	18.02		50/50	19.00	18.41	**18.29**	**18.18**
	75/0	19.00	18.17	18.02	17.98		100/0	19.00	**18.18**	18.07	17.95
16QAM	1/0	19.00	18.28	18.55	18.53	16QAM	1/0	19.00	18.50	18.34	18.18
	1/37	19.00	18.18	18.46	18.45		1/50	19.00	18.21	17.98	17.87
	1/74	19.00	18.30	18.54	18.51		1/99	19.00	18.38	18.20	18.11
	36/0	19.00	18.19	18.08	17.92		50/0	19.00	18.24	18.07	17.95
	36/19	19.00	18.22	18.06	17.90		50/25	19.00	18.17	17.99	17.99
	36/39	19.00	18.10	18.11	17.96		50/50	19.00	18.19	18.06	18.01
	75/0	19.00	18.15	17.99	17.96		100/0	19.00	18.16	18.16	17.95
64QAM	1/0	19.00	18.63	18.23	18.74	64QAM	1/0	19.00	18.75	18.90	18.62
	1/37	19.00	18.54	18.02	18.65		1/50	19.00	18.53	18.67	18.38
	1/74	19.00	18.63	18.14	18.76		1/99	19.00	18.76	18.83	18.62
	36/0	19.00	18.21	18.05	17.96		50/0	19.00	18.24	18.00	18.04
	36/19	19.00	18.21	18.04	17.89		50/25	19.00	18.20	17.98	18.08
	36/39	19.00	18.11	18.08	17.94		50/50	19.00	18.23	18.08	18.14
	75/0	19.00	18.15	17.97	17.98		100/0	19.00	18.17	18.05	17.99

Note: The tested channels are marks in bold.

5. Conducted power measurement results of LTE B12

Main Antenna_Receiver on

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	24.00	23.40	23.37	23.38	QPSK	1/0	24.00	23.28	23.38	23.51
	1/2	24.00	23.43	23.45	23.42		1/7	24.00	23.51	23.42	23.50
	1/5	24.00	23.40	23.37	23.39		1/14	24.00	23.38	23.38	23.39
	3/0	24.00	23.43	23.34	23.38		8/0	23.00	22.26	22.33	22.31
	3/1	24.00	23.35	23.41	23.42		8/3	23.00	22.38	22.29	22.47
	3/3	24.00	23.38	23.31	23.42		8/7	23.00	22.27	22.37	22.40
	6/0	23.00	22.31	22.26	22.33		15/0	23.00	22.27	22.34	22.41
16QAM	1/0	23.00	22.42	22.54	22.94	16QAM	1/0	23.00	22.28	22.84	22.43
	1/2	23.00	22.46	22.66	22.91		1/7	23.00	22.39	22.93	22.52
	1/5	23.00	22.49	22.54	22.97		1/14	23.00	22.34	22.91	22.45
	3/0	23.00	22.65	22.45	22.64		8/0	22.00	21.42	21.48	21.42
	3/1	23.00	22.65	22.54	22.61		8/3	22.00	21.56	21.46	21.49
	3/3	23.00	22.59	22.39	22.66		8/7	22.00	21.42	21.46	21.47
	6/0	22.00	21.58	21.52	21.30		15/0	22.00	21.34	21.37	21.40
64QAM	1/0	22.00	21.48	21.62	21.62	64QAM	1/0	22.00	21.71	21.85	21.54
	1/2	22.00	21.53	21.71	21.60		1/7	22.00	21.69	21.86	21.69
	1/5	22.00	21.48	21.66	21.56		1/14	22.00	21.77	21.80	21.58
	3/0	22.00	21.53	21.37	21.61		8/0	21.00	20.34	20.49	20.45
	3/1	22.00	21.56	21.40	21.60		8/3	21.00	20.49	20.46	20.53
	3/3	22.00	21.49	21.29	21.65		8/7	21.00	20.36	20.48	20.49
	6/0	21.00	20.69	20.43	20.77		15/0	21.00	20.44	20.38	20.54

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704	23095/ 707.5	23130/ 711
QPSK	1/0	24.00	23.47	23.42	23.45	QPSK	1/0	24.00	23.57	23.71	**23.72**
	1/12	24.00	23.47	23.38	23.48		1/24	24.00	23.34	23.38	23.51
	1/24	24.00	23.47	23.56	23.43		1/49	24.00	23.60	23.69	23.72
	12/0	23.00	22.36	22.35	22.37		25/0	23.00	22.50	22.44	**22.56**
	12/6	23.00	22.36	22.33	22.44		25/12	23.00	22.41	22.41	22.54
	12/13	23.00	22.36	22.39	22.47		25/25	23.00	22.44	22.35	22.49
	25/0	23.00	22.41	22.37	22.43		50/0	23.00	22.44	22.47	22.52
16QAM	1/0	23.00	22.54	22.91	22.54	16QAM	1/0	23.00	22.71	22.75	22.48
	1/12	23.00	22.62	22.89	22.50		1/24	23.00	22.50	22.36	22.93
	1/24	23.00	22.62	22.98	22.55		1/49	23.00	22.69	22.61	22.68
	12/0	22.00	21.49	21.52	21.45		25/0	22.00	21.68	21.49	21.56
	12/6	22.00	21.47	21.47	21.53		25/12	22.00	21.57	21.46	21.54
	12/13	22.00	21.48	21.56	21.53		25/25	22.00	21.56	21.47	21.49
	25/0	22.00	21.43	21.44	21.46		50/0	22.00	21.51	21.49	21.52
64QAM	1/0	22.00	21.33	21.85	21.72	64QAM	1/0	22.00	21.82	21.87	21.96
	1/12	22.00	21.39	21.80	21.72		1/24	22.00	21.81	21.49	21.69
	1/24	22.00	21.36	21.89	21.79		1/49	22.00	21.74	21.82	21.91
	12/0	21.00	20.47	20.34	20.45		25/0	21.00	20.60	20.54	20.56
	12/6	21.00	20.45	20.32	20.52		25/12	21.00	20.49	20.51	20.56
	12/13	21.00	20.48	20.41	20.56		25/25	21.00	20.49	20.52	20.56
	25/0	21.00	20.43	20.39	20.53		50/0	21.00	20.47	20.56	20.49

Main Antenna_Receiver off

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	24.00	23.37	23.41	23.38	QPSK	1/0	24.00	23.27	23.38	23.46
	1/2	24.00	23.54	23.55	23.45		1/7	24.00	23.38	23.44	23.48
	1/5	24.00	23.45	23.42	23.40		1/14	24.00	23.35	23.38	23.46
	3/0	24.00	23.48	23.44	23.38		8/0	23.00	22.27	22.35	22.34
	3/1	24.00	23.46	23.48	23.34		8/3	23.00	22.38	22.33	22.44
	3/3	24.00	23.40	23.37	23.45		8/7	23.00	22.29	22.35	22.39
	6/0	23.00	22.36	22.28	22.32		15/0	23.00	22.29	22.29	22.43
16QAM	1/0	23.00	22.36	22.48	22.41	16QAM	1/0	23.00	22.26	22.80	22.41
	1/2	23.00	22.36	22.59	22.83		1/7	23.00	22.33	22.88	22.52
	1/5	23.00	22.43	22.49	22.88		1/14	23.00	22.32	22.83	22.40
	3/0	23.00	22.56	22.40	22.61		8/0	22.00	21.37	21.45	21.51
	3/1	23.00	22.56	22.49	22.57		8/3	22.00	21.48	21.39	21.60
	3/3	23.00	22.51	22.35	22.55		8/7	22.00	21.37	21.40	21.56
	6/0	22.00	21.49	21.42	21.23		15/0	22.00	21.29	21.31	21.52
64QAM	1/0	22.00	21.43	21.63	21.56	64QAM	1/0	22.00	21.63	21.81	21.46
	1/2	22.00	21.45	21.65	21.55		1/7	22.00	21.72	21.77	21.62
	1/5	22.00	21.42	21.61	21.55		1/14	22.00	21.69	21.76	21.55
	3/0	22.00	21.49	21.31	21.54		8/0	21.00	20.28	20.41	20.40
	3/1	22.00	21.48	21.35	21.59		8/3	21.00	20.42	20.41	20.49
	3/3	22.00	21.41	21.25	21.59		8/7	21.00	20.30	20.44	20.43
	6/0	21.00	20.64	20.36	20.70		15/0	21.00	20.41	20.32	20.49

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704	23095/ 707.5	23130/ 711
QPSK	1/0	24.00	23.50	23.47	23.51	QPSK	1/0	24.00	23.59	23.68	**23.76**
	1/12	24.00	23.53	23.42	23.50		1/24	24.00	23.34	23.36	23.42
	1/24	24.00	23.52	23.53	23.67		1/49	24.00	23.61	23.64	23.66
	12/0	23.00	22.46	22.37	22.31		25/0	23.00	**22.49**	22.42	22.42
	12/6	23.00	22.41	22.34	22.40		25/12	23.00	22.44	22.37	22.42
	12/13	23.00	22.44	22.39	22.45		25/25	23.00	22.44	22.34	22.40
	25/0	23.00	22.45	22.38	22.42		50/0	23.00	22.40	22.48	22.43
16QAM	1/0	23.00	22.55	22.87	22.58	16QAM	1/0	23.00	22.67	22.73	22.70
	1/12	23.00	22.62	22.88	22.56		1/24	23.00	22.49	22.37	22.88
	1/24	23.00	22.59	22.98	22.60		1/49	23.00	22.64	22.61	22.60
	12/0	22.00	21.48	21.49	21.42		25/0	22.00	21.63	21.45	21.51
	12/6	22.00	21.44	21.46	21.49		25/12	22.00	21.55	21.40	21.53
	12/13	22.00	21.50	21.56	21.50		25/25	22.00	21.53	21.40	21.46
	25/0	22.00	21.41	21.43	21.44		50/0	22.00	21.48	21.47	21.51
64QAM	1/0	22.00	21.25	21.75	21.66	64QAM	1/0	22.00	21.95	21.79	21.92
	1/12	22.00	21.35	21.76	21.72		1/24	22.00	21.70	21.48	21.66
	1/24	22.00	21.35	21.84	21.73		1/49	22.00	21.98	21.80	21.82
	12/0	21.00	20.40	20.28	20.40		25/0	21.00	20.54	20.49	20.52
	12/6	21.00	20.39	20.27	20.47		25/12	21.00	20.42	20.45	20.52
	12/13	21.00	20.41	20.32	20.46		25/25	21.00	20.42	20.48	20.54
	25/0	21.00	20.36	20.34	20.49		50/0	21.00	20.40	20.51	20.48

Second Antenna_Receiver on

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	24.00	23.20	23.24	23.15	QPSK	1/0	24.00	23.16	23.25	23.31
	1/2	24.00	23.32	23.34	23.33		1/7	24.00	23.26	23.41	23.21
	1/5	24.00	23.25	23.21	23.29		1/14	24.00	23.20	23.15	23.22
	3/0	24.00	23.20	23.29	23.12		8/0	23.00	22.15	22.21	22.06
	3/1	24.00	23.28	23.26	23.32		8/3	23.00	22.24	22.18	22.17
	3/3	24.00	23.27	23.22	23.14		8/7	23.00	22.15	22.21	22.12
	6/0	23.00	22.05	22.13	22.05		15/0	23.00	22.16	22.16	22.16
16QAM	1/0	23.00	22.32	22.87	22.68	16QAM	1/0	23.00	22.94	22.38	22.28
	1/2	23.00	22.40	22.84	22.76		1/7	23.00	22.85	22.32	22.24
	1/5	23.00	22.40	22.79	22.80		1/14	23.00	22.87	22.27	22.29
	3/0	23.00	22.23	22.46	22.39		8/0	22.00	21.39	21.35	21.21
	3/1	23.00	22.34	22.51	22.50		8/3	22.00	21.48	21.33	21.35
	3/3	23.00	22.25	22.36	22.39		8/7	22.00	21.37	21.33	21.31
	6/0	22.00	21.32	21.11	21.07		15/0	22.00	21.29	21.20	21.28
64QAM	1/0	22.00	21.68	21.39	21.46	64QAM	1/0	22.00	21.62	21.35	21.59
	1/2	22.00	21.77	21.44	21.55		1/7	22.00	21.64	21.45	21.55
	1/5	22.00	21.69	21.32	21.57		1/14	22.00	21.58	21.27	21.55
	3/0	22.00	21.57	21.43	21.16		8/0	21.00	20.26	20.29	20.03
	3/1	22.00	21.63	21.48	21.25		8/3	21.00	20.37	20.26	20.15
	3/3	22.00	21.55	21.38	21.19		8/7	21.00	20.23	20.28	20.12
	6/0	21.00	20.11	20.49	20.23		15/0	21.00	20.17	20.25	20.21

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704	23095/ 707.5	23130/ 711
QPSK	1/0	24.00	23.25	23.29	23.33	QPSK	1/0	24.00	**23.55**	23.51	23.49
	1/12	24.00	23.34	23.28	23.24		1/24	24.00	23.30	23.22	23.22
	1/24	24.00	23.31	23.25	23.33		1/49	24.00	23.49	23.41	23.37
	12/0	23.00	22.15	22.22	22.23		25/0	23.00	**22.38**	22.27	22.28
	12/6	23.00	22.17	22.17	22.21		25/12	23.00	22.29	22.22	22.21
	12/13	23.00	22.21	22.21	22.20		25/25	23.00	22.28	22.30	22.20
	25/0	23.00	22.26	22.21	22.22		50/0	23.00	22.28	22.27	22.32
16QAM	1/0	23.00	22.37	22.74	22.46	16QAM	1/0	23.00	22.38	22.92	22.63
	1/12	23.00	22.47	22.79	22.36		1/24	23.00	22.20	22.61	22.36
	1/24	23.00	22.44	22.74	22.43		1/49	23.00	22.32	22.84	22.43
	12/0	22.00	21.29	21.40	21.30		25/0	22.00	21.35	21.33	21.48
	12/6	22.00	21.35	21.39	21.21		25/12	22.00	21.24	21.29	21.37
	12/13	22.00	21.35	21.43	21.29		25/25	22.00	21.26	21.32	21.28
	25/0	22.00	21.29	21.33	21.16		50/0	22.00	21.24	21.27	21.40
64QAM	1/0	22.00	21.63	21.52	21.18	64QAM	1/0	22.00	21.83	21.66	21.78
	1/12	22.00	21.73	21.58	21.12		1/24	22.00	21.59	21.34	21.47
	1/24	22.00	21.64	21.51	21.31		1/49	22.00	21.78	21.54	21.58
	12/0	21.00	20.14	20.31	20.28		25/0	21.00	20.39	20.36	20.36
	12/6	21.00	20.22	20.28	20.27		25/12	21.00	20.30	20.31	20.28
	12/13	21.00	20.18	20.31	20.25		25/25	21.00	20.30	20.36	20.30
	25/0	21.00	20.26	20.25	20.26		50/0	21.00	20.26	20.31	20.31

Second Antenna_Receiver off

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	24.00	23.09	23.00	22.95	QPSK	1/0	24.00	23.05	23.14	23.14
	1/2	24.00	23.14	23.28	23.01		1/7	24.00	23.18	23.12	23.12
	1/5	24.00	23.07	23.02	23.03		1/14	24.00	23.04	23.07	23.05
	3/0	24.00	23.09	23.07	22.97		8/0	23.00	21.99	21.98	21.91
	3/1	24.00	23.12	23.10	22.90		8/3	23.00	22.09	21.97	22.02
	3/3	24.00	23.07	23.07	23.04		8/7	23.00	21.94	22.00	21.96
	6/0	23.00	21.96	21.90	21.91		15/0	23.00	22.00	21.93	22.00
16QAM	1/0	23.00	22.53	22.04	22.13	16QAM	1/0	23.00	22.13	22.63	22.21
	1/2	23.00	22.57	22.09	22.09		1/7	23.00	22.18	22.65	22.09
	1/5	23.00	22.57	22.06	22.15		1/14	23.00	22.10	22.57	22.10
	3/0	23.00	22.22	22.23	21.99		8/0	22.00	21.26	21.19	21.00
	3/1	23.00	22.35	22.27	22.03		8/3	22.00	21.32	21.15	21.11
	3/3	23.00	22.20	22.20	22.06		8/7	22.00	21.20	21.20	21.07
	6/0	22.00	20.90	21.15	21.12		15/0	22.00	21.14	21.07	21.01
64QAM	1/0	22.00	21.21	21.31	21.45	64QAM	1/0	22.00	21.49	21.23	21.47
	1/2	22.00	21.20	21.30	21.51		1/7	22.00	21.47	21.23	21.41
	1/5	22.00	21.19	21.33	21.43		1/14	22.00	21.45	21.16	21.47
	3/0	22.00	21.16	21.01	21.37		8/0	21.00	20.10	20.06	20.03
	3/1	22.00	21.27	21.06	21.36		8/3	21.00	20.23	20.03	20.13
	3/3	22.00	21.20	20.97	21.36		8/7	21.00	20.07	20.08	20.08
	6/0	21.00	20.28	20.04	19.96		15/0	21.00	20.01	20.04	20.04

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704	23095/ 707.5	23130/ 711
QPSK	1/0	24.00	23.10	23.21	23.26	QPSK	1/0	24.00	23.14	23.16	**23.35**
	1/12	24.00	23.12	23.09	23.17		1/24	24.00	23.10	23.05	23.13
	1/24	24.00	23.12	23.16	23.20		1/49	24.00	23.31	23.35	23.17
	12/0	23.00	22.00	21.98	22.10		25/0	23.00	**22.20**	22.18	22.14
	12/6	23.00	22.01	21.95	22.08		25/12	23.00	22.17	22.06	22.09
	12/13	23.00	21.98	22.07	22.07		25/25	23.00	22.11	22.13	22.05
	25/0	23.00	22.07	22.02	22.12		50/0	23.00	22.08	22.15	22.16
16QAM	1/0	23.00	22.27	22.61	22.39	16QAM	1/0	23.00	22.51	22.39	22.82
	1/12	23.00	22.33	22.58	22.32		1/24	23.00	22.25	22.03	22.60
	1/24	23.00	22.29	22.62	22.32		1/49	23.00	22.41	22.27	22.71
	12/0	22.00	21.15	21.18	21.21		25/0	22.00	21.39	21.26	21.27
	12/6	22.00	21.20	21.15	21.21		25/12	22.00	21.35	21.11	21.18
	12/13	22.00	21.18	21.26	21.19		25/25	22.00	21.26	21.24	21.12
	25/0	22.00	21.15	21.11	21.17		50/0	22.00	21.19	21.20	21.24
64QAM	1/0	22.00	21.37	21.11	21.51	64QAM	1/0	22.00	21.57	21.41	21.63
	1/12	22.00	21.40	21.05	21.50		1/24	22.00	21.52	21.17	21.37
	1/24	22.00	21.37	21.09	21.50		1/49	22.00	21.73	21.41	21.50
	12/0	21.00	20.14	20.07	20.06		25/0	21.00	20.25	20.28	20.23
	12/6	21.00	20.16	20.05	20.02		25/12	21.00	20.21	20.13	20.17
	12/13	21.00	20.15	20.15	20.01		25/25	21.00	20.13	20.23	20.16
	25/0	21.00	20.16	20.05	20.07		50/0	21.00	20.10	20.25	20.19

Note: The tested channels are marks in bold.

6. Conducted power measurement results of LTE B17

Main Antenna_Receiver on

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709	23790/ 710	23800/ 711
QPSK	1/0	24.00	23.49	23.45	23.57	QPSK	1/0	24.00	23.64	23.71	**23.82**
	1/12	24.00	23.51	23.55	23.49		1/24	24.00	23.34	23.50	23.47
	1/24	24.00	23.44	23.42	23.41		1/49	24.00	23.49	23.56	23.63
	12/0	23.00	22.42	22.40	22.33		25/0	23.00	22.44	22.47	22.48
	12/6	23.00	22.47	22.41	22.27		25/12	23.00	**22.50**	22.44	22.46
	12/13	23.00	22.41	22.36	22.32		25/25	23.00	22.37	22.37	22.44
	25/0	23.00	22.46	22.42	22.34		50/0	23.00	22.43	22.39	22.47
16QAM	1/0	23.00	22.68	22.56	22.95	16QAM	1/0	23.00	22.72	22.78	22.80
	1/12	23.00	22.68	22.64	22.88		1/24	23.00	22.35	22.89	22.43
	1/24	23.00	22.57	22.56	22.91		1/49	23.00	22.44	23.00	22.55
	12/0	22.00	21.53	21.45	21.50		25/0	22.00	21.43	21.53	21.60
	12/6	22.00	21.57	21.52	21.47		25/12	22.00	21.50	21.53	21.61
	12/13	22.00	21.46	21.49	21.52		25/25	22.00	21.41	21.41	21.53
	25/0	22.00	21.44	21.48	21.46		50/0	22.00	21.39	21.48	21.51
64QAM	1/0	22.00	21.76	21.36	21.91	64QAM	1/0	22.00	21.79	21.88	21.76
	1/12	22.00	21.76	21.48	21.85		1/24	22.00	21.74	21.56	21.89
	1/24	22.00	21.64	21.33	21.73		1/49	22.00	21.90	21.72	21.98
	12/0	21.00	20.50	20.43	20.33		25/0	21.00	20.49	20.55	20.63
	12/6	21.00	20.53	20.46	20.29		25/12	21.00	20.52	20.56	20.62
	12/13	21.00	20.46	20.41	20.32		25/25	21.00	20.42	20.48	20.51
	25/0	21.00	20.53	20.46	20.39		50/0	21.00	20.42	20.51	20.55

Main Antenna_Receiver off

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709	23790/ 710	23800/ 711
QPSK	1/0	24.00	23.44	23.39	23.53	QPSK	1/0	24.00	23.58	23.64	**23.78**
	1/12	24.00	23.48	23.48	23.41		1/24	24.00	23.32	23.47	23.38
	1/24	24.00	23.42	23.37	23.37		1/49	24.00	23.48	23.52	23.50
	12/0	23.00	22.39	22.34	22.29		25/0	23.00	22.37	22.42	22.42
	12/6	23.00	22.39	22.34	22.22		25/12	23.00	**22.45**	22.39	22.41
	12/13	23.00	22.35	22.32	22.28		25/25	23.00	22.33	22.31	22.38
	25/0	23.00	22.41	22.37	22.30		50/0	23.00	22.37	22.33	22.42
16QAM	1/0	23.00	22.62	22.50	22.87	16QAM	1/0	23.00	22.63	22.63	22.71
	1/12	23.00	22.62	22.59	22.86		1/24	23.00	22.35	22.74	22.36
	1/24	23.00	22.52	22.47	22.83		1/49	23.00	22.38	22.93	22.47
	12/0	22.00	21.46	21.40	21.47		25/0	22.00	21.37	21.47	21.54
	12/6	22.00	21.49	21.47	21.41		25/12	22.00	21.43	21.47	21.56
	12/13	22.00	21.41	21.41	21.48		25/25	22.00	21.36	21.35	21.48
	25/0	22.00	21.37	21.43	21.43		50/0	22.00	21.34	21.41	21.46
64QAM	1/0	22.00	21.72	21.32	21.89	64QAM	1/0	22.00	21.97	21.79	21.76
	1/12	22.00	21.73	21.41	21.80		1/24	22.00	21.70	21.55	21.81
	1/24	22.00	21.61	21.28	21.73		1/49	22.00	21.87	21.75	21.94
	12/0	21.00	20.44	20.36	20.24		25/0	21.00	20.43	20.51	20.60
	12/6	21.00	20.48	20.43	20.21		25/12	21.00	20.47	20.50	20.59
	12/13	21.00	20.39	20.37	20.27		25/25	21.00	20.38	20.44	20.49
	25/0	21.00	20.46	20.39	20.30		50/0	21.00	20.37	20.45	20.51

Second Antenna_Receiver on

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709	23790/ 710	23800/ 711
QPSK	1/0	24.00	23.30	23.30	23.35	QPSK	1/0	24.00	23.39	23.44	**23.55**
	1/12	24.00	23.30	23.34	23.28		1/24	24.00	23.13	23.24	23.22
	1/24	24.00	23.24	23.32	23.39		1/49	24.00	23.28	23.43	23.32
	12/0	23.00	22.16	22.14	22.15		25/0	23.00	22.18	22.25	22.20
	12/6	23.00	22.16	22.21	22.14		25/12	23.00	22.23	22.16	22.17
	12/13	23.00	22.12	22.15	22.19		25/25	23.00	22.18	22.21	**22.27**
	25/0	23.00	22.20	22.13	22.20		50/0	23.00	22.19	22.22	22.27
16QAM	1/0	23.00	22.39	22.37	22.74	16QAM	1/0	23.00	22.48	22.85	22.56
	1/12	23.00	22.39	22.48	22.77		1/24	23.00	22.18	22.58	22.30
	1/24	23.00	22.31	22.42	22.70		1/49	23.00	22.31	22.78	22.41
	12/0	22.00	21.28	21.29	21.29		25/0	22.00	21.23	21.32	21.34
	12/6	22.00	21.30	21.30	21.27		25/12	22.00	21.31	21.19	21.25
	12/13	22.00	21.23	21.23	21.38		25/25	22.00	21.19	21.20	21.32
	25/0	22.00	21.19	21.11	21.28		50/0	22.00	21.19	21.28	21.30
64QAM	1/0	22.00	21.69	21.47	21.26	64QAM	1/0	22.00	21.77	21.87	21.67
	1/12	22.00	21.71	21.56	21.19		1/24	22.00	21.45	21.61	21.37
	1/24	22.00	21.62	21.51	21.22		1/49	22.00	21.55	21.80	21.58
	12/0	21.00	20.19	20.28	20.25		25/0	21.00	20.30	20.36	20.34
	12/6	21.00	20.23	20.33	20.24		25/12	21.00	20.38	20.26	20.30
	12/13	21.00	20.13	20.24	20.28		25/25	21.00	20.32	20.25	20.39
	25/0	21.00	20.23	20.19	20.26		50/0	21.00	20.26	20.28	20.34

Second Antenna_Receiver off

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709	23790/ 710	23800/ 711
QPSK	1/0	24.00	23.15	23.22	23.19	QPSK	1/0	24.00	23.24	23.26	**23.35**
	1/12	24.00	23.13	23.09	23.17		1/24	24.00	23.03	23.07	23.03
	1/24	24.00	23.10	23.18	23.18		1/49	24.00	23.22	23.25	23.16
	12/0	23.00	22.09	22.06	22.06		25/0	23.00	22.09	22.09	22.12
	12/6	23.00	22.03	22.04	22.03		25/12	23.00	22.02	22.06	22.09
	12/13	23.00	22.10	22.07	22.08		25/25	23.00	22.10	22.11	**22.17**
	25/0	23.00	22.06	22.05	22.09		50/0	23.00	22.06	22.09	22.19
16QAM	1/0	23.00	22.29	22.31	22.58	16QAM	1/0	23.00	22.30	22.68	22.36
	1/12	23.00	22.24	22.29	22.66		1/24	23.00	22.14	22.46	22.07
	1/24	23.00	22.25	22.31	22.61		1/49	23.00	22.26	22.69	22.28
	12/0	22.00	21.24	21.16	21.21		25/0	22.00	21.13	21.17	21.26
	12/6	22.00	21.13	21.13	21.21		25/12	22.00	21.06	21.14	21.25
	12/13	22.00	21.16	21.16	21.23		25/25	22.00	21.15	21.14	21.25
	25/0	22.00	21.03	21.08	21.17		50/0	22.00	21.06	21.14	21.21
64QAM	1/0	22.00	21.06	21.57	21.30	64QAM	1/0	22.00	21.71	21.50	21.59
	1/12	22.00	21.02	21.53	21.41		1/24	22.00	21.44	21.21	21.24
	1/24	22.00	21.02	21.47	21.39		1/49	22.00	21.65	21.48	21.50
	12/0	21.00	20.18	20.03	20.14		25/0	21.00	20.19	20.16	20.21
	12/6	21.00	20.08	19.99	20.11		25/12	21.00	20.10	20.15	20.18
	12/13	21.00	20.11	19.99	20.14		25/25	21.00	20.14	20.20	20.28
	25/0	21.00	20.04	20.03	20.14		50/0	21.00	20.07	20.16	20.17

Note: The tested channels are marks in bold.

7. Conducted power measurement results of LTE B26

Main Antenna_Receiver on

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26697/ 814.7	26865/ 831	27033/ 848.3				26705/ 815.5	26865/ 831	27025/ 847.5
QPSK	1/0	24.00	22.64	22.76	22.89	QPSK	1/0	24.00	22.98	22.85	22.91
	1/2	24.00	22.70	22.79	23.06		1/7	24.00	22.76	22.52	22.82
	1/5	24.00	22.66	22.78	23.05		1/14	24.00	22.93	22.73	22.69
	3/0	24.00	22.96	22.72	23.00		8/0	23.00	21.87	22.10	22.34
	3/1	24.00	22.71	22.80	23.06		8/3	23.00	21.91	22.05	22.39
	3/3	24.00	22.64	22.76	22.76		8/7	23.00	21.85	22.00	22.41
	6/0	23.00	21.88	22.03	22.02		15/0	23.00	21.83	22.08	22.39
16QAM	1/0	23.00	22.02	21.95	21.98	16QAM	1/0	23.00	21.94	22.34	21.88
	1/2	23.00	22.03	22.20	22.16		1/7	23.00	21.90	22.30	22.38
	1/5	23.00	21.97	22.18	22.20		1/14	23.00	21.88	22.21	22.49
	3/0	23.00	22.13	22.02	22.28		8/0	22.00	21.03	21.19	21.06
	3/1	23.00	22.24	22.10	22.37		8/3	22.00	21.09	21.15	21.10
	3/3	23.00	22.15	22.08	22.31		8/7	22.00	21.04	21.08	21.12
	6/0	22.00	21.04	21.21	21.32		15/0	22.00	20.92	21.07	21.03
64QAM	1/0	22.00	21.36	20.86	21.13	64QAM	1/0	22.00	21.31	20.90	21.06
	1/2	22.00	21.45	21.13	21.29		1/7	22.00	21.22	21.23	21.21
	1/5	22.00	21.27	21.07	20.99		1/14	22.00	21.32	21.10	21.15
	3/0	22.00	21.23	21.12	21.01		8/0	21.00	19.99	20.10	20.44
	3/1	22.00	21.32	21.17	21.05		8/3	21.00	20.06	20.06	20.15
	3/3	22.00	21.25	21.18	21.04		8/7	21.00	19.99	19.99	20.18
	6/0	21.00	19.85	20.33	20.48		15/0	21.00	19.88	20.06	20.07

LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26715/ 816.5	26865/ 831	27015/ 846.5				26740/ 819	26865/ 831	26990/ 844
QPSK	1/0	24.00	22.98	22.96	22.98	QPSK	1/0	24.00	22.67	22.94	22.66
	1/12	24.00	22.67	22.77	22.84		1/24	24.00	22.83	22.74	22.96
	1/24	24.00	22.95	22.76	22.93		1/49	24.00	22.74	22.73	22.71
	12/0	23.00	21.99	21.99	22.41		25/0	23.00	21.91	22.26	22.41
	12/6	23.00	21.97	22.02	22.37		25/12	23.00	21.86	22.15	22.40
	12/13	23.00	21.90	21.97	22.42		25/25	23.00	21.90	22.24	22.46
	25/0	23.00	21.93	22.03	22.39		50/0	23.00	21.91	22.13	22.47
16QAM	1/0	23.00	22.09	22.36	22.02	16QAM	1/0	23.00	22.24	22.28	22.28
	1/12	23.00	22.16	22.22	22.48		1/24	23.00	22.31	22.06	22.36
	1/24	23.00	22.05	22.22	22.23		1/49	23.00	22.23	22.34	22.35
	12/0	22.00	21.02	21.17	21.45		25/0	22.00	21.04	21.32	21.47
	12/6	22.00	20.99	21.18	21.41		25/12	22.00	21.00	21.24	21.46
	12/13	22.00	20.95	21.13	21.47		25/25	22.00	20.99	21.27	21.18
	25/0	22.00	20.93	21.13	21.34		50/0	22.00	21.01	21.14	21.46
64QAM	1/0	22.00	20.83	21.30	21.12	64QAM	1/0	22.00	21.18	21.38	21.24
	1/12	22.00	20.94	21.47	21.30		1/24	22.00	21.26	21.24	21.22
	1/24	22.00	20.84	21.42	21.37		1/49	22.00	21.23	21.20	21.21
	12/0	21.00	19.99	19.97	20.42		25/0	21.00	20.06	20.26	20.49
	12/6	21.00	19.96	19.99	20.40		25/12	21.00	20.02	20.20	20.17
	12/13	21.00	19.88	19.92	20.44		25/25	21.00	19.99	20.23	20.20
	25/0	21.00	19.90	20.03	20.41		50/0	21.00	19.98	20.14	20.47

LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26765/ 821.5	26865/ 831	26965/ 841.5
QPSK	1/0	24.00	23.03	22.98	23.16
	1/37	24.00	23.17	23.05	**23.19**
	1/74	24.00	23.13	23.12	23.17
	36/0	23.00	21.56	21.75	21.70
	36/19	23.00	21.87	21.85	**21.94**
	36/39	23.00	21.83	21.82	21.83
	75/0	23.00	21.72	21.80	21.82
16QAM	1/0	23.00	21.80	22.10	22.06
	1/37	23.00	21.98	22.16	22.39
	1/74	23.00	21.64	22.22	22.04
	36/0	22.00	20.72	21.22	20.76
	36/19	22.00	21.04	21.01	21.02
	36/39	22.00	21.00	20.99	20.90
	75/0	22.00	20.88	20.92	20.89
64QAM	1/0	22.00	21.80	21.19	20.81
	1/37	22.00	21.97	21.22	21.14
	1/74	22.00	21.57	21.29	20.83
	36/0	21.00	19.94	19.79	19.94
	36/19	21.00	19.94	19.94	19.89
	36/39	21.00	19.87	19.91	19.93
	75/0	21.00	19.90	19.85	19.84

Main Antenna_Receiver off

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26697/ 814.7	26865/ 831	27033/ 848.3				26705/ 815.5	26865/ 831	27025/ 847.5
QPSK	1/0	24.00	22.70	22.43	22.61	QPSK	1/0	24.00	22.56	22.71	22.62
	1/2	24.00	22.80	22.85	22.82		1/7	24.00	22.62	22.93	22.86
	1/5	24.00	22.64	22.79	22.78		1/14	24.00	22.62	22.73	22.79
	3/0	24.00	22.73	22.79	22.74		8/0	23.00	21.88	22.03	22.36
	3/1	24.00	22.75	22.88	22.75		8/3	23.00	21.91	22.00	22.40
	3/3	24.00	22.68	22.87	22.84		8/7	23.00	21.85	21.95	22.45
	6/0	23.00	21.55	21.73	22.05		15/0	23.00	21.83	22.02	22.39
16QAM	1/0	23.00	22.03	22.29	21.85	16QAM	1/0	23.00	22.00	22.22	21.89
	1/2	23.00	22.11	22.42	22.41		1/7	23.00	21.89	22.36	22.39
	1/5	23.00	21.99	22.19	22.48		1/14	23.00	21.90	22.25	22.47
	3/0	23.00	21.90	22.23	22.16		8/0	22.00	20.99	21.25	21.37
	3/1	23.00	22.07	22.35	22.20		8/3	22.00	21.06	21.22	21.43
	3/3	23.00	21.94	22.26	22.24		8/7	22.00	21.01	21.15	21.45
	6/0	22.00	20.98	21.00	21.16		15/0	22.00	20.86	21.13	21.31
64QAM	1/0	22.00	21.03	21.00	21.28	64QAM	1/0	22.00	21.21	21.27	20.93
	1/2	22.00	21.06	21.25	21.40		1/7	22.00	21.21	21.46	21.19
	1/5	22.00	20.93	21.28	21.38		1/14	22.00	21.20	21.40	21.19
	3/0	22.00	20.97	20.92	21.02		8/0	21.00	19.87	20.14	20.36
	3/1	22.00	21.06	20.94	20.98		8/3	21.00	19.95	20.09	20.41
	3/3	22.00	21.04	20.97	21.00		8/7	21.00	19.88	20.00	20.43
	6/0	21.00	20.16	20.06	20.36		15/0	21.00	19.92	19.98	20.42

LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26715/ 816.5	26865/ 831	27015/ 846.5				26740/ 819	26865/ 831	26990/ 844
QPSK	1/0	24.00	22.64	22.62	22.62	QPSK	1/0	24.00	22.74	22.72	22.80
	1/12	24.00	22.85	22.86	22.72		1/24	24.00	22.53	22.62	22.76
	1/24	24.00	22.69	22.63	22.87		1/49	24.00	22.83	22.56	22.84
	12/0	23.00	21.91	22.09	22.39		25/0	23.00	21.92	22.26	22.40
	12/6	23.00	21.89	22.06	22.33		25/12	23.00	21.88	22.13	22.40
	12/13	23.00	21.84	22.06	22.38		25/25	23.00	22.01	22.19	22.44
	25/0	23.00	21.90	22.10	22.37		50/0	23.00	22.01	22.13	22.46
16QAM	1/0	23.00	22.07	22.07	22.40	16QAM	1/0	23.00	22.11	22.29	22.30
	1/12	23.00	22.14	22.31	22.22		1/24	23.00	21.98	22.25	22.39
	1/24	23.00	22.04	22.26	22.31		1/49	23.00	22.25	22.49	22.38
	12/0	22.00	21.08	21.15	21.23		25/0	22.00	21.04	21.31	21.17
	12/6	22.00	21.02	21.17	21.19		25/12	22.00	21.03	21.22	21.16
	12/13	22.00	20.97	21.11	21.23		25/25	22.00	21.05	21.26	21.21
	25/0	22.00	20.90	21.11	21.47		50/0	22.00	21.02	21.19	21.17
64QAM	1/0	22.00	20.79	21.25	21.10	64QAM	1/0	22.00	21.45	21.33	21.21
	1/12	22.00	20.91	21.34	21.17		1/24	22.00	21.31	21.21	21.19
	1/24	22.00	20.82	21.49	21.36		1/49	22.00	21.29	21.35	21.21
	12/0	21.00	19.97	20.05	20.41		25/0	21.00	20.09	20.34	20.45
	12/6	21.00	19.93	20.07	20.39		25/12	21.00	20.04	20.27	20.47
	12/13	21.00	19.87	19.99	20.42		25/25	21.00	20.06	20.32	20.21
	25/0	21.00	19.90	20.12	20.40		50/0	21.00	20.03	20.22	20.44

LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26765/ 821.5	26865/ 831	26965/ 841.5
QPSK	1/0	24.00	22.81	22.44	22.40
	1/37	24.00	**22.94**	22.51	22.71
	1/74	24.00	22.54	22.56	22.37
	36/0	23.00	21.56	**22.56**	21.56
	36/19	23.00	21.84	21.73	21.80
	36/39	23.00	21.79	21.70	21.67
	75/0	23.00	21.66	21.68	21.67
16QAM	1/0	23.00	22.01	21.95	22.04
	1/37	23.00	22.18	22.02	22.33
	1/74	23.00	21.84	21.88	21.95
	36/0	22.00	20.92	21.08	21.17
	36/19	22.00	21.22	21.18	21.39
	36/39	22.00	21.17	21.15	21.24
	75/0	22.00	21.05	21.09	21.21
64QAM	1/0	22.00	20.96	20.64	21.01
	1/37	22.00	21.12	20.72	21.35
	1/74	22.00	20.77	20.77	21.06
	36/0	21.00	19.54	20.77	19.60
	36/19	21.00	19.84	19.83	19.85
	36/39	21.00	19.79	19.81	19.73
	75/0	21.00	19.66	19.73	19.74

Second Antenna_Receiver on

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26697/ 814.7	26865/ 831	27033/ 848.3				26705/ 815.5	26865/ 831	27025/ 847.5
QPSK	1/0	24.00	22.34	22.11	22.33	QPSK	1/0	24.00	22.35	22.25	22.38
	1/2	24.00	22.44	22.55	22.91		1/7	24.00	22.34	22.71	22.61
	1/5	24.00	22.36	22.45	22.88		1/14	24.00	22.27	22.48	22.92
	3/0	24.00	22.37	22.45	22.84		8/0	23.00	21.59	21.90	22.18
	3/1	24.00	22.53	22.49	22.84		8/3	23.00	21.64	21.85	22.23
	3/3	24.00	22.30	22.50	22.93		8/7	23.00	21.58	21.78	22.26
	6/0	23.00	21.66	21.84	22.16		15/0	23.00	21.67	21.83	22.21
16QAM	1/0	23.00	22.19	21.57	21.87	16QAM	1/0	23.00	21.78	22.16	21.76
	1/2	23.00	22.17	21.81	22.38		1/7	23.00	21.72	22.53	22.26
	1/5	23.00	22.11	21.89	22.44		1/14	23.00	21.67	22.43	22.33
	3/0	23.00	21.87	21.96	22.24		8/0	22.00	20.77	21.06	21.25
	3/1	23.00	21.98	22.02	22.33		8/3	22.00	20.84	21.02	21.30
	3/3	23.00	21.77	22.01	22.29		8/7	22.00	20.76	20.91	21.30
	6/0	22.00	20.52	20.98	21.38		15/0	22.00	20.73	20.86	21.19
64QAM	1/0	22.00	20.88	20.88	21.25	64QAM	1/0	22.00	21.17	20.67	21.14
	1/2	22.00	20.92	21.10	21.82		1/7	22.00	21.16	21.13	21.62
	1/5	22.00	20.80	21.17	21.73		1/14	22.00	21.09	20.89	21.59
	3/0	22.00	20.83	20.79	21.66		8/0	21.00	19.71	19.91	20.16
	3/1	22.00	20.92	20.85	21.69		8/3	21.00	19.77	19.90	20.23
	3/3	22.00	20.78	20.84	21.72		8/7	21.00	19.73	19.81	20.27
	6/0	21.00	19.99	19.84	20.27		15/0	21.00	19.70	19.87	20.31

LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26715/ 816.5	26865/ 831	27015/ 846.5				26740/ 819	26865/ 831	26990/ 844
QPSK	1/0	24.00	22.41	22.38	22.43	QPSK	1/0	24.00	22.15	22.25	22.38
	1/12	24.00	22.39	22.61	22.49		1/24	24.00	22.56	22.16	22.36
	1/24	24.00	22.28	22.58	22.58		1/49	24.00	22.16	22.43	22.76
	12/0	23.00	21.61	21.88	22.26		25/0	23.00	21.74	22.02	22.17
	12/6	23.00	21.62	21.90	22.25		25/12	23.00	21.72	21.95	22.22
	12/13	23.00	21.57	21.84	22.27		25/25	23.00	21.81	22.02	22.29
	25/0	23.00	21.62	21.93	22.24		50/0	23.00	21.75	21.93	22.28
16QAM	1/0	23.00	21.92	22.21	21.94	16QAM	1/0	23.00	21.92	22.47	22.17
	1/12	23.00	21.95	22.47	22.38		1/24	23.00	21.64	22.36	22.19
	1/24	23.00	21.83	22.47	22.43		1/49	23.00	21.98	22.60	22.57
	12/0	22.00	20.76	21.08	21.31		25/0	22.00	20.82	21.13	21.33
	12/6	22.00	20.74	21.08	21.28		25/12	22.00	20.78	21.05	21.33
	12/13	22.00	20.72	21.02	21.33		25/25	22.00	20.88	21.09	21.39
	25/0	22.00	20.69	21.04	21.21		50/0	22.00	20.75	21.00	21.32
64QAM	1/0	22.00	20.68	21.15	21.03	64QAM	1/0	22.00	21.27	21.19	21.39
	1/12	22.00	20.69	21.29	21.55		1/24	22.00	20.98	21.02	21.40
	1/24	22.00	20.63	21.20	21.64		1/49	22.00	21.33	21.26	21.75
	12/0	21.00	19.67	19.78	20.31		25/0	21.00	19.75	20.04	20.30
	12/6	21.00	19.71	19.78	20.28		25/12	21.00	19.71	19.98	20.34
	12/13	21.00	19.66	19.75	20.31		25/25	21.00	19.77	20.04	20.41
	25/0	21.00	19.64	19.84	20.28		50/0	21.00	19.68	19.94	20.32

LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26765/ 821.5	26865/ 831	26965/ 841.5
QPSK	1/0	24.00	22.94	22.73	22.75
	1/37	24.00	22.88	**22.96**	22.85
	1/74	24.00	22.72	22.81	22.61
	36/0	23.00	21.64	**22.61**	21.54
	36/19	23.00	21.68	21.68	21.72
	36/39	23.00	21.60	21.63	21.71
	75/0	23.00	21.57	21.61	21.65
16QAM	1/0	23.00	21.33	21.53	21.68
	1/37	23.00	21.32	21.70	21.66
	1/74	23.00	21.15	21.62	21.27
	36/0	22.00	20.27	21.62	20.34
	36/19	22.00	20.33	20.38	20.71
	36/39	22.00	20.25	20.33	20.67
	75/0	22.00	20.21	20.26	20.57
64QAM	1/0	22.00	20.70	20.66	20.12
	1/37	22.00	20.67	20.62	20.34
	1/74	22.00	20.49	20.59	20.04
	36/0	21.00	19.28	20.09	19.36
	36/19	21.00	19.34	19.46	19.55
	36/39	21.00	19.26	19.34	19.51
	75/0	21.00	19.20	19.40	19.43

Second Antenna_Receiver off

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26697/ 814.7	26865/ 831	27033/ 848.3				26705/ 815.5	26865/ 831	27025/ 847.5
QPSK	1/0	24.00	22.80	22.66	22.84	QPSK	1/0	24.00	22.69	22.70	22.89
	1/2	24.00	22.86	23.11	23.39		1/7	24.00	22.71	23.08	23.49
	1/5	24.00	22.83	22.99	23.41		1/14	24.00	22.82	22.99	23.46
	3/0	24.00	22.84	23.01	23.37		8/0	23.00	21.72	22.01	22.28
	3/1	24.00	22.91	23.03	23.40		8/3	23.00	21.78	21.97	22.36
	3/3	24.00	22.90	23.08	23.46		8/7	23.00	21.73	21.90	22.39
	6/0	23.00	21.72	21.94	22.32		15/0	23.00	21.71	21.99	22.34
16QAM	1/0	23.00	21.89	22.11	21.92	16QAM	1/0	23.00	21.74	22.21	21.86
	1/2	23.00	21.91	22.41	22.40		1/7	23.00	21.71	22.56	22.38
	1/5	23.00	21.84	22.46	22.47		1/14	23.00	21.77	22.50	22.44
	3/0	23.00	21.78	22.18	22.55		8/0	22.00	20.87	21.11	21.38
	3/1	23.00	21.92	22.23	22.56		8/3	22.00	20.93	21.11	21.42
	3/3	23.00	21.80	22.16	22.57		8/7	22.00	20.87	20.99	21.45
	6/0	22.00	20.85	20.87	21.56		15/0	22.00	20.77	21.02	21.33
64QAM	1/0	22.00	21.20	20.72	21.55	64QAM	1/0	22.00	21.22	20.77	21.09
	1/2	22.00	21.32	20.99	21.58		1/7	22.00	21.17	21.16	21.66
	1/5	22.00	21.13	20.95	21.57		1/14	22.00	21.26	20.97	21.64
	3/0	22.00	21.08	20.98	21.52		8/0	21.00	19.87	19.99	20.24
	3/1	22.00	21.19	21.02	21.57		8/3	21.00	19.93	19.99	20.31
	3/3	22.00	21.11	21.02	21.59		8/7	21.00	19.87	19.90	20.35
	6/0	21.00	19.67	20.18	20.70		15/0	21.00	19.75	19.98	20.36

LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26715/ 816.5	26865/ 831	27015/ 846.5				26740/ 819	26865/ 831	26990/ 844
QPSK	1/0	24.00	22.84	23.04	22.98	QPSK	1/0	24.00	22.91	23.21	23.33
	1/12	24.00	22.89	23.05	23.41		1/24	24.00	22.84	23.07	23.30
	1/24	24.00	22.90	23.07	23.67		1/49	24.00	23.16	23.39	23.69
	12/0	23.00	21.74	21.93	22.33		25/0	23.00	21.90	22.15	22.32
	12/6	23.00	21.74	21.92	22.31		25/12	23.00	21.89	22.07	22.35
	12/13	23.00	21.75	21.89	22.36		25/25	23.00	21.98	22.11	22.42
	25/0	23.00	21.79	21.94	22.34		50/0	23.00	21.92	22.05	22.43
16QAM	1/0	23.00	21.92	22.21	22.36	16QAM	1/0	23.00	22.02	22.64	22.29
	1/12	23.00	22.04	22.20	22.87		1/24	23.00	21.80	22.46	22.28
	1/24	23.00	22.02	22.25	22.99		1/49	23.00	22.08	22.80	22.72
	12/0	22.00	20.89	21.06	21.56		25/0	22.00	20.87	21.27	21.48
	12/6	22.00	20.88	21.05	21.54		25/12	22.00	20.83	21.11	21.45
	12/13	22.00	20.87	21.02	21.56		25/25	22.00	20.94	21.15	21.51
	25/0	22.00	20.84	20.97	21.46		50/0	22.00	20.91	21.07	21.46
64QAM	1/0	22.00	20.69	21.09	21.01	64QAM	1/0	22.00	21.27	21.50	21.39
	1/12	22.00	20.82	21.28	21.31		1/24	22.00	20.98	21.24	21.44
	1/24	22.00	20.76	21.28	21.42		1/49	22.00	21.30	21.64	21.89
	12/0	21.00	19.82	19.85	20.40		25/0	21.00	19.90	20.11	20.43
	12/6	21.00	19.81	19.88	20.35		25/12	21.00	19.89	20.02	20.41
	12/13	21.00	19.83	19.80	20.40		25/25	21.00	20.01	20.06	20.49
	25/0	21.00	19.78	19.91	20.35		50/0	21.00	19.85	19.96	20.45

LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			26765/ 821.5	26865/ 831	26965/ 841.5
QPSK	1/0	24.00	23.55	23.29	23.48
	1/37	24.00	23.50	**23.70**	23.49
	1/74	24.00	23.33	23.47	23.19
	36/0	23.00	22.02	**22.97**	21.93
	36/19	23.00	22.02	22.13	22.02
	36/39	23.00	21.88	22.05	21.97
	75/0	23.00	21.89	22.04	21.95
16QAM	1/0	23.00	22.10	22.32	22.09
	1/37	23.00	22.10	22.71	22.08
	1/74	23.00	21.93	22.50	21.78
	36/0	22.00	21.10	21.50	21.05
	36/19	22.00	21.12	21.18	21.14
	36/39	22.00	20.98	21.29	21.08
	75/0	22.00	20.97	21.24	21.05
64QAM	1/0	22.00	21.51	21.60	21.41
	1/37	22.00	21.50	21.97	21.41
	1/74	22.00	21.31	21.74	21.13
	36/0	21.00	20.16	20.44	20.25
	36/19	21.00	20.18	20.55	20.34
	36/39	21.00	20.02	20.46	20.29
	75/0	21.00	19.99	20.36	20.19

Note: The tested channels are marks in bold.

8. Conducted power measurement results of LTE B38

Main Antenna_Receiver on

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595	38225/ 2617.5				37800/ 2575	38000/ 2595	38200/ 2615
QPSK	1/0	24.00	22.67	22.80	22.82	QPSK	1/0	24.00	22.77	23.10	22.98
	1/12	24.00	22.53	23.01	23.06		1/24	24.00	22.45	23.26	23.10
	1/24	24.00	22.47	23.06	23.17		1/49	24.00	22.72	23.16	23.12
	12/0	23.00	22.56	22.96	22.82		25/0	23.00	22.53	22.98	22.72
	12/6	23.00	22.47	22.90	22.82		25/12	23.00	22.48	22.70	22.80
	12/13	23.00	22.48	22.97	22.70		25/25	23.00	22.54	22.68	22.85
	25/0	23.00	22.58	22.97	22.80		50/0	23.00	22.63	22.69	22.86
16QAM	1/0	23.00	21.76	21.64	21.81	16QAM	1/0	23.00	22.05	22.31	22.06
	1/12	23.00	21.68	21.97	22.09		1/24	23.00	21.71	22.13	22.09
	1/24	23.00	21.64	21.91	22.01		1/49	23.00	21.94	22.40	22.30
	12/0	22.00	21.66	21.94	21.73		25/0	22.00	21.70	21.93	22.00
	12/6	22.00	21.57	21.94	21.68		25/12	22.00	21.60	21.70	21.70
	12/13	22.00	21.58	22.00	21.89		25/25	22.00	21.68	21.75	21.80
	25/0	22.00	21.61	21.70	21.79		50/0	22.00	21.78	21.72	21.81
64QAM	1/0	22.00	20.74	20.46	21.25	64QAM	1/0	22.00	20.44	21.28	21.07
	1/12	22.00	20.65	20.67	21.49		1/24	22.00	20.11	21.26	21.16
	1/24	22.00	20.59	20.75	21.57		1/49	22.00	20.46	21.64	21.50
	12/0	21.00	20.55	20.93	20.92		25/0	21.00	20.65	20.94	20.67
	12/6	21.00	20.43	20.91	20.89		25/12	21.00	20.52	20.68	20.71
	12/13	21.00	20.44	20.98	20.83		25/25	21.00	20.55	20.72	20.77
	25/0	21.00	20.49	20.73	20.84		50/0	21.00	20.65	20.72	20.84

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595	38175/ 2612.5				37850/ 2580	38000/ 2595	38150/ 2610
QPSK	1/0	24.00	22.74	22.85	23.25	QPSK	1/0	24.00	22.78	22.70	23.01
	1/37	24.00	22.51	22.59	23.15		1/50	24.00	22.54	22.56	23.00
	1/74	24.00	22.97	22.95	23.17		1/99	24.00	22.91	22.99	**23.39**
	36/0	23.00	22.40	22.57	22.63		50/0	23.00	22.54	22.51	22.63
	36/19	23.00	22.42	22.56	22.70		50/25	23.00	22.49	22.57	22.68
	36/39	23.00	22.60	22.58	22.72		50/50	23.00	22.63	22.67	**22.80**
	75/0	23.00	22.66	22.57	22.67		100/0	23.00	22.66	22.59	22.73
16QAM	1/0	23.00	21.85	21.88	22.25	16QAM	1/0	23.00	21.92	21.64	21.89
	1/37	23.00	21.53	21.54	22.12		1/50	23.00	21.62	21.43	22.01
	1/74	23.00	22.00	21.94	22.58		1/99	23.00	22.08	21.95	22.28
	36/0	22.00	21.48	21.50	21.64		50/0	22.00	21.56	21.50	21.65
	36/19	22.00	21.46	21.49	21.70		50/25	22.00	21.54	21.57	21.72
	36/39	22.00	21.63	21.55	21.75		50/50	22.00	21.71	21.64	21.82
	75/0	22.00	21.61	21.63	21.70		100/0	22.00	21.60	21.59	21.74
64QAM	1/0	22.00	20.39	21.12	20.88	64QAM	1/0	22.00	21.21	20.73	21.09
	1/37	22.00	20.10	20.72	20.67		1/50	22.00	21.00	20.51	21.05
	1/74	22.00	20.53	21.21	21.15		1/99	22.00	21.35	20.95	21.48
	36/0	21.00	20.51	20.56	20.66		50/0	21.00	20.54	20.54	20.52
	36/19	21.00	20.52	20.55	20.72		50/25	21.00	20.56	20.54	20.53
	36/39	21.00	20.67	20.54	20.59		50/50	21.00	20.71	20.64	20.58
	75/0	21.00	20.60	20.55	20.65		100/0	21.00	20.62	20.53	20.54

Main Antenna_Receiver off

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595	38225/ 2617.5				37800/ 2575	38000/ 2595	38200/ 2615
QPSK	1/0	24.00	22.67	22.71	22.85	QPSK	1/0	24.00	22.74	23.04	23.07
	1/12	24.00	22.64	22.93	23.11		1/24	24.00	22.41	23.03	23.16
	1/24	24.00	22.62	22.93	23.20		1/49	24.00	22.72	23.17	23.26
	12/0	23.00	22.59	22.61	22.83		25/0	23.00	22.55	22.98	22.76
	12/6	23.00	22.45	22.62	22.86		25/12	23.00	22.50	22.99	22.84
	12/13	23.00	22.47	22.70	22.71		25/25	23.00	22.57	22.73	22.88
	25/0	23.00	22.58	22.71	22.52		50/0	23.00	22.64	22.76	22.88
16QAM	1/0	23.00	22.04	22.01	22.20	16QAM	1/0	23.00	22.10	22.57	22.61
	1/12	23.00	22.03	22.30	22.48		1/24	23.00	21.72	22.51	22.62
	1/24	23.00	21.95	22.27	22.44		1/49	23.00	22.09	22.84	22.89
	12/0	22.00	21.76	21.69	21.89		25/0	22.00	21.60	21.69	21.82
	12/6	22.00	21.66	21.65	21.86		25/12	22.00	21.51	21.71	21.86
	12/13	22.00	21.64	21.71	21.79		25/25	22.00	21.58	21.72	21.93
	25/0	22.00	21.60	21.68	21.91		50/0	22.00	21.65	21.77	21.93
64QAM	1/0	22.00	21.22	20.98	21.08	64QAM	1/0	22.00	20.80	21.56	21.39
	1/12	22.00	21.30	21.20	21.39		1/24	22.00	20.45	21.53	21.47
	1/24	22.00	21.24	21.11	21.43		1/49	22.00	20.77	21.89	21.79
	12/0	21.00	20.72	20.84	20.88		25/0	21.00	20.63	20.90	20.99
	12/6	21.00	20.63	20.86	20.88		25/12	21.00	20.53	20.72	20.77
	12/13	21.00	20.63	20.96	20.77		25/25	21.00	20.58	20.72	20.82
	25/0	21.00	20.56	20.92	20.90		50/0	21.00	20.57	20.75	20.85

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595	38175/ 2612.5				37850/ 2580	38000/ 2595	38150/ 2610
QPSK	1/0	24.00	22.72	22.89	23.22	QPSK	1/0	24.00	22.86	22.84	23.08
	1/37	24.00	22.49	22.68	23.05		1/50	24.00	22.64	22.68	23.09
	1/74	24.00	22.87	23.00	23.29		1/99	24.00	**23.01**	**23.13**	**23.32**
	36/0	23.00	22.42	22.48	22.42		50/0	23.00	22.52	22.49	22.69
	36/19	23.00	22.40	22.47	22.48		50/25	23.00	22.45	22.54	22.74
	36/39	23.00	22.55	22.54	22.49		50/50	23.00	22.59	22.63	**22.82**
	75/0	23.00	22.52	22.54	22.46		100/0	23.00	22.58	22.56	**22.77**
16QAM	1/0	23.00	22.05	22.25	22.24	16QAM	1/0	23.00	22.03	22.01	22.38
	1/37	23.00	21.73	21.93	22.09		1/50	23.00	21.75	21.90	22.24
	1/74	23.00	22.22	22.35	22.53		1/99	23.00	22.21	22.26	22.62
	36/0	22.00	21.42	21.48	21.77		50/0	22.00	21.49	21.48	21.99
	36/19	22.00	21.42	21.48	21.81		50/25	22.00	21.48	21.52	21.79
	36/39	22.00	21.59	21.50	21.86		50/50	22.00	21.67	21.65	21.89
	75/0	22.00	21.55	21.56	21.80		100/0	22.00	21.58	21.58	21.80
64QAM	1/0	22.00	20.87	21.46	21.52	64QAM	1/0	22.00	21.56	21.13	21.43
	1/37	22.00	20.52	21.15	21.29		1/50	22.00	21.31	20.84	21.62
	1/74	22.00	20.96	21.52	21.77		1/99	22.00	21.71	21.38	21.87
	36/0	21.00	20.48	20.55	20.95		50/0	21.00	20.55	20.50	20.73
	36/19	21.00	20.52	20.57	20.76		50/25	21.00	20.55	20.55	20.77
	36/39	21.00	20.67	20.60	20.80		50/50	21.00	20.68	20.62	20.87
	75/0	21.00	20.54	20.54	20.78		100/0	21.00	20.56	20.56	20.82

Second Antenna_Receiver on

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595	38225/ 2617.5				37800/ 2575	38000/ 2595	38200/ 2615
QPSK	1/0	18.50	17.53	17.66	17.58	QPSK	1/0	18.50	17.74	18.05	17.77
	1/12	18.50	17.56	17.71	17.80		1/24	18.50	17.43	17.89	17.67
	1/24	18.50	17.49	17.62	17.82		1/49	18.50	17.69	18.23	18.06
	12/0	18.50	17.56	17.65	17.86		25/0	18.50	17.51	17.71	17.84
	12/6	18.50	17.46	17.62	17.90		25/12	18.50	17.40	17.75	17.88
	12/13	18.50	17.46	17.67	17.76		25/25	18.50	17.49	17.76	17.93
	25/0	18.50	17.50	17.74	17.90		50/0	18.50	17.53	17.75	17.93
16QAM	1/0	18.50	18.04	17.93	18.17	16QAM	1/0	18.50	18.03	18.33	18.46
	1/12	18.50	18.01	18.13	18.32		1/24	18.50	17.70	18.07	18.44
	1/24	18.50	17.83	18.04	18.29		1/49	18.50	18.09	18.48	18.40
	12/0	18.50	17.63	17.69	17.86		25/0	18.50	17.50	17.71	17.87
	12/6	18.50	17.54	17.67	17.89		25/12	18.50	17.42	17.73	17.89
	12/13	18.50	17.55	17.72	17.78		25/25	18.50	17.47	17.76	17.92
	25/0	18.50	17.53	17.74	17.94		50/0	18.50	17.56	17.83	17.95
64QAM	1/0	18.50	17.79	18.26	18.11	64QAM	1/0	18.50	18.40	17.91	18.40
	1/12	18.50	17.78	18.35	18.15		1/24	18.50	17.99	17.68	18.28
	1/24	18.50	17.67	18.30	17.98		1/49	18.50	18.22	18.02	18.18
	12/0	18.50	17.49	17.66	17.86		25/0	18.50	17.46	17.60	17.65
	12/6	18.50	17.39	17.64	17.90		25/12	18.50	17.34	17.66	17.72
	12/13	18.50	17.42	17.84	17.77		25/25	18.50	17.46	17.68	17.78
	25/0	18.50	17.38	17.66	17.86		50/0	18.50	17.50	17.63	17.79

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595	38175/ 2612.5				37850/ 2580	38000/ 2595	38150/ 2610
QPSK	1/0	18.50	17.75	17.89	18.08	QPSK	1/0	18.50	18.41	18.16	18.39
	1/37	18.50	17.49	17.56	17.86		1/50	18.50	18.18	18.07	18.44
	1/74	18.50	17.95	17.99	18.28		1/99	18.50	18.34	18.43	**18.49**
	36/0	18.50	17.33	17.30	17.77		50/0	18.50	17.44	17.35	17.73
	36/19	18.50	17.31	17.35	17.86		50/25	18.50	17.43	17.48	17.82
	36/39	18.50	17.46	17.39	17.86		50/50	18.50	17.57	17.55	**17.92**
	75/0	18.50	17.47	17.40	17.81		100/0	18.50	17.47	17.48	17.88
16QAM	1/0	18.50	18.07	18.24	18.36	16QAM	1/0	18.50	18.06	17.85	18.21
	1/37	18.50	17.78	17.84	18.18		1/50	18.50	17.78	17.68	18.11
	1/74	18.50	18.24	18.31	18.28		1/99	18.50	18.26	18.19	18.15
	36/0	18.50	17.32	17.30	17.80		50/0	18.50	17.39	17.34	17.71
	36/19	18.50	17.32	17.31	17.88		50/25	18.50	17.39	17.53	17.77
	36/39	18.50	17.51	17.36	17.88		50/50	18.50	17.55	17.59	17.90
	75/0	18.50	17.48	17.41	17.83		100/0	18.50	17.49	17.48	17.79
64QAM	1/0	18.50	17.77	18.36	18.40	64QAM	1/0	18.50	17.75	17.63	17.86
	1/37	18.50	17.49	18.24	18.15		1/50	18.50	17.46	17.57	17.82
	1/74	18.50	17.99	18.42	18.20		1/99	18.50	17.92	18.04	18.19
	36/0	18.50	17.42	17.40	17.69		50/0	18.50	17.42	17.29	17.72
	36/19	18.50	17.44	17.42	17.80		50/25	18.50	17.39	17.37	17.78
	36/39	18.50	17.60	17.43	17.85		50/50	18.50	17.52	17.44	17.85
	75/0	18.50	17.47	17.39	17.83		100/0	18.50	17.50	17.39	17.82

Second Antenna_Receiver off

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595	38225/ 2617.5				37800/ 2575	38000/ 2595	38200/ 2615
QPSK	1/0	24.00	22.39	22.51	22.58	QPSK	1/0	24.00	22.50	22.65	22.71
	1/12	24.00	22.40	22.60	22.80		1/24	24.00	22.15	22.76	22.77
	1/24	24.00	22.19	22.54	22.87		1/49	24.00	22.55	22.57	22.60
	12/0	23.00	22.23	22.58	22.74		25/0	23.00	22.26	22.66	22.67
	12/6	23.00	22.13	22.55	22.77		25/12	23.00	22.12	22.56	22.74
	12/13	23.00	22.22	22.53	22.71		25/25	23.00	22.21	22.61	22.74
	25/0	23.00	22.22	22.51	22.73		50/0	23.00	22.30	22.58	22.78
16QAM	1/0	23.00	21.51	21.70	21.95	16QAM	1/0	23.00	21.83	21.91	22.01
	1/12	23.00	21.45	21.91	22.26		1/24	23.00	21.47	21.85	22.06
	1/24	23.00	21.38	21.81	22.31		1/49	23.00	21.86	22.17	22.38
	12/0	22.00	21.25	21.65	21.84		25/0	22.00	21.21	21.60	21.73
	12/6	22.00	21.14	21.57	21.79		25/12	22.00	21.15	21.54	21.76
	12/13	22.00	21.16	21.57	21.78		25/25	22.00	21.23	21.56	21.82
	25/0	22.00	21.17	21.61	21.81		50/0	22.00	21.28	21.64	21.81
64QAM	1/0	22.00	20.37	20.79	21.37	64QAM	1/0	22.00	20.77	20.98	20.75
	1/12	22.00	20.41	20.74	21.31		1/24	22.00	20.45	20.86	20.80
	1/24	22.00	20.35	20.67	21.28		1/49	22.00	20.82	21.32	21.26
	12/0	21.00	20.24	20.65	20.68		25/0	21.00	20.29	20.66	20.76
	12/6	21.00	20.17	20.61	20.69		25/12	21.00	20.16	20.60	20.79
	12/13	21.00	20.17	20.58	20.66		25/25	21.00	20.24	20.63	20.83
	25/0	21.00	20.21	20.57	20.71		50/0	21.00	20.33	20.67	20.78

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595	38175/ 2612.5				37850/ 2580	38000/ 2595	38150/ 2610
QPSK	1/0	24.00	22.47	22.50	22.41	QPSK	1/0	24.00	22.41	22.45	22.69
	1/37	24.00	22.22	22.28	22.66		1/50	24.00	22.14	22.15	22.52
	1/74	24.00	22.65	22.69	22.63		1/99	24.00	22.68	22.71	**22.94**
	36/0	23.00	22.09	22.09	22.63		50/0	23.00	22.20	22.22	22.53
	36/19	23.00	22.08	22.06	22.59		50/25	23.00	22.13	22.23	22.55
	36/39	23.00	22.27	22.26	22.76		50/50	23.00	**22.32**	**22.34**	**22.66**
	75/0	23.00	22.21	22.11	22.65		100/0	23.00	22.31	22.24	**22.61**
16QAM	1/0	23.00	21.81	21.75	22.14	16QAM	1/0	23.00	21.91	21.62	22.19
	1/37	23.00	21.51	21.45	21.92		1/50	23.00	21.54	21.36	22.02
	1/74	23.00	21.95	21.94	22.47		1/99	23.00	22.15	21.90	22.66
	36/0	22.00	21.07	21.15	21.62		50/0	22.00	21.20	21.21	21.60
	36/19	22.00	21.14	21.10	21.61		50/25	22.00	21.19	21.23	21.61
	36/39	22.00	21.36	21.27	21.76		50/50	22.00	21.43	21.33	21.75
	75/0	22.00	21.22	21.15	21.69		100/0	22.00	21.25	21.27	21.67
64QAM	1/0	22.00	20.71	20.89	21.25	64QAM	1/0	22.00	20.61	20.43	20.85
	1/37	22.00	20.43	20.52	20.89		1/50	22.00	20.42	20.18	20.68
	1/74	22.00	20.83	21.09	21.40		1/99	22.00	20.92	20.77	21.27
	36/0	21.00	20.13	20.17	20.74		50/0	21.00	20.26	20.20	20.63
	36/19	21.00	20.18	20.16	20.66		50/25	21.00	20.29	20.19	20.61
	36/39	21.00	20.35	20.29	20.76		50/50	21.00	20.47	20.33	20.70
	75/0	21.00	20.28	20.18	20.68		100/0	21.00	20.38	20.27	20.65

Note: The tested channels are marks in bold.

9. Conducted power measurement results of LTE B41

Main Antenna_Receiver on

LTE B41/BW=5M		Average Conducted Power(dBm)					LTE B41/BW=10M		Average Conducted Power(dBm)				
Modula-tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula-tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40065/ 2537.5	40440/ 2575	40840/ 2615	41215/ 2652.5				40090/ 2540	40440/ 2575	40840/ 2615	41190/ 2650
QPSK	1/0	24.00	23.38	23.49	23.55	23.63	QPSK	1/0	24.00	23.49	23.53	23.65	23.45
	1/12	24.00	23.36	23.51	23.48	23.63		1/24	24.00	23.33	23.49	23.43	23.65
	1/24	24.00	23.47	23.51	23.44	23.58		1/49	24.00	23.59	23.43	23.60	23.64
	12/0	23.00	22.40	22.44	22.77	22.98		25/0	23.00	22.34	22.43	22.67	22.86
	12/6	23.00	22.27	22.42	22.68	22.86		25/12	23.00	22.39	22.45	22.67	22.79
	12/13	23.00	22.32	22.48	22.64	22.83		25/25	23.00	22.38	22.50	22.80	22.77
	25/0	23.00	22.30	22.49	22.64	22.91		50/0	23.00	22.35	22.51	22.75	22.81
16QAM	1/0	23.00	22.72	22.69	22.78	22.72	16QAM	1/0	23.00	22.76	22.92	22.71	22.78
	1/12	23.00	22.68	22.69	22.69	22.64		1/24	23.00	22.56	22.64	22.84	22.79
	1/24	23.00	22.73	22.68	22.73	22.74		1/49	23.00	22.91	22.96	22.74	22.65
	12/0	22.00	21.54	21.49	21.91	21.61		25/0	22.00	21.28	21.51	21.60	21.76
	12/6	22.00	21.39	21.51	21.82	21.88		25/12	22.00	21.32	21.52	21.67	21.71
	12/13	22.00	21.36	21.52	21.78	21.95		25/25	22.00	21.32	21.54	21.70	21.71
	25/0	22.00	21.24	21.47	21.73	21.93		50/0	22.00	21.25	21.55	21.78	21.76
64QAM	1/0	22.00	21.71	21.63	21.71	21.57	64QAM	1/0	22.00	21.46	21.65	21.80	21.84
	1/12	22.00	21.53	21.76	21.64	21.53		1/24	22.00	21.26	21.47	21.71	21.44
	1/24	22.00	21.60	21.64	21.58	21.52		1/49	22.00	21.50	21.71	21.95	21.66
	12/0	21.00	20.32	20.47	20.69	20.98		25/0	21.00	20.35	20.62	20.62	20.91
	12/6	21.00	20.26	20.51	20.65	20.84		25/12	21.00	20.39	20.61	20.68	20.78
	12/13	21.00	20.24	20.47	20.60	20.82		25/25	21.00	20.36	20.59	20.73	20.71
	25/0	21.00	20.19	20.52	20.58	20.69		50/0	21.00	20.27	20.49	20.73	20.67

LTE B41/BW=15M		Average Conducted Power(dBm)					LTE B41/BW=20M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40115/ 2542.5	40440/ 2575	40840/ 2615	41165/ 2647.5				40140/ 2545	40440/ 2575	40840/ 2615	41140/ 2645
QPSK	1/0	24.00	23.12	23.06	23.21	23.26	QPSK	1/0	24.00	23.91	23.85	23.76	23.80
	1/37	24.00	23.36	23.32	23.56	23.70		1/50	24.00	23.67	23.73	23.79	23.80
	1/74	24.00	22.72	22.67	22.78	22.98		1/99	24.00	23.91	23.91	23.84	**23.93**
	36/0	23.00	22.47	22.44	22.61	22.75		50/0	23.00	22.56	22.46	22.64	22.80
	36/19	23.00	22.50	22.47	22.51	22.77		50/25	23.00	22.48	22.44	22.67	22.79
	36/39	23.00	22.13	22.08	22.26	22.48		50/50	23.00	22.49	22.42	22.68	**22.83**
	75/0	23.00	22.34	22.28	22.42	22.69		100/0	23.00	22.54	22.56	22.65	22.90
16QAM	1/0	23.00	22.49	22.39	22.59	22.71	16QAM	1/0	23.00	22.74	22.86	22.80	22.86
	1/37	23.00	22.73	22.68	22.83	22.69		1/50	23.00	22.73	22.69	22.79	22.99
	1/74	23.00	22.11	22.04	22.20	22.32		1/99	23.00	22.72	22.93	22.84	22.92
	36/0	22.00	21.53	21.53	21.63	21.90		50/0	22.00	21.65	21.51	21.62	21.86
	36/19	22.00	21.52	21.53	21.54	21.92		50/25	22.00	21.54	21.48	21.60	21.87
	36/39	22.00	21.12	21.12	21.28	21.58		50/50	22.00	21.54	21.44	21.56	21.87
	75/0	22.00	21.44	21.30	21.44	21.74		100/0	22.00	21.60	21.55	21.56	21.94
64QAM	1/0	22.00	21.15	21.49	21.84	21.58	64QAM	1/0	22.00	21.62	21.51	21.46	21.66
	1/37	22.00	21.45	21.76	21.82	21.67		1/50	22.00	21.69	21.71	21.82	21.96
	1/74	22.00	20.76	21.14	21.47	21.30		1/99	22.00	21.51	21.57	21.49	21.70
	36/0	21.00	20.57	20.51	20.77	20.82		50/0	21.00	20.56	20.49	20.55	20.83
	36/19	21.00	20.57	20.48	20.75	20.83		50/25	21.00	20.52	20.46	20.61	20.85
	36/39	21.00	20.25	20.08	20.46	20.51		50/50	21.00	20.50	20.46	20.55	20.87
	75/0	21.00	20.40	20.29	20.55	20.76		100/0	21.00	20.53	20.54	20.63	20.90

Main Antenna_Receiver off

LTE B41/BW=5M		Average Conducted Power(dBm)					LTE B41/BW=10M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40065/ 2537.5	40440/ 2575	40840/ 2615	41215/ 2652.5				40090/ 2540	40440/ 2575	40840/ 2615	41190/ 2650
QPSK	1/0	24.00	23.24	23.54	23.88	23.83	QPSK	1/0	24.00	23.47	23.68	23.67	23.83
	1/12	24.00	23.17	23.53	23.80	23.76		1/24	24.00	23.29	23.42	23.64	23.90
	1/24	24.00	23.16	23.54	23.76	23.70		1/49	24.00	23.48	23.63	23.65	23.58
	12/0	23.00	22.27	22.44	22.76	22.82		25/0	23.00	22.28	22.54	22.70	22.80
	12/6	23.00	22.17	22.45	22.72	22.57		25/12	23.00	22.35	22.63	22.75	22.73
	12/13	23.00	22.22	22.49	22.70	22.71		25/25	23.00	22.35	22.56	22.83	22.74
	25/0	23.00	22.35	22.51	22.70	22.78		50/0	23.00	22.29	22.53	22.77	22.86
16QAM	1/0	23.00	22.54	22.75	22.86	22.72	16QAM	1/0	23.00	22.74	22.96	22.77	22.72
	1/12	23.00	22.52	22.72	22.81	22.72		1/24	23.00	22.66	22.69	22.86	22.80
	1/24	23.00	22.63	22.73	22.73	22.86		1/49	23.00	22.94	22.65	22.70	22.56
	12/0	22.00	21.41	21.55	21.92	21.70		25/0	22.00	21.41	21.52	21.76	21.81
	12/6	22.00	21.25	21.55	21.84	21.92		25/12	22.00	21.46	21.55	21.79	21.76
	12/13	22.00	21.27	21.56	21.79	21.91		25/25	22.00	21.42	21.55	21.84	21.75
	25/0	22.00	21.23	21.52	21.76	21.88		50/0	22.00	21.35	21.59	21.84	21.85
64QAM	1/0	22.00	21.66	21.65	21.97	21.85	64QAM	1/0	22.00	21.44	21.54	21.61	21.50
	1/12	22.00	21.50	21.81	21.92	21.87		1/24	22.00	21.21	21.56	21.66	21.58
	1/24	22.00	21.56	21.54	21.83	21.91		1/49	22.00	21.50	21.51	21.53	21.43
	12/0	21.00	20.29	20.51	20.71	20.65		25/0	21.00	20.36	20.41	20.59	20.64
	12/6	21.00	20.22	20.55	20.66	20.88		25/12	21.00	20.39	20.42	20.63	20.56
	12/13	21.00	20.24	20.57	20.65	20.83		25/25	21.00	20.37	20.47	20.69	20.60
	25/0	21.00	20.27	20.58	20.68	20.73		50/0	21.00	20.28	20.50	20.69	20.69

LTE B41/BW=15M		Average Conducted Power(dBm)					LTE B41/BW=20M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40115/ 2542.5	40440/ 2575	40840/ 2615	41165/ 2647.5				40140/ 2545	40440/ 2575	40840/ 2615	41140/ 2645
QPSK	1/0	24.00	23.15	23.11	23.23	23.27	QPSK	1/0	24.00	23.66	23.74	23.84	23.86
	1/37	24.00	23.42	23.38	23.55	23.70		1/50	24.00	23.46	23.64	23.79	23.67
	1/74	24.00	22.77	22.69	22.79	22.98		1/99	24.00	23.70	23.79	23.84	**23.92**
	36/0	23.00	22.51	22.52	22.60	22.77		50/0	23.00	22.54	22.55	22.65	22.81
	36/19	23.00	22.55	22.56	22.55	22.85		50/25	23.00	22.46	22.51	22.68	22.79
	36/39	23.00	22.19	22.14	22.27	22.46		50/50	23.00	22.49	22.50	22.66	**22.84**
	75/0	23.00	22.37	22.29	22.46	22.70		100/0	23.00	22.53	22.67	22.68	22.88
16QAM	1/0	23.00	22.47	22.69	22.55	22.73	16QAM	1/0	23.00	22.94	22.90	22.88	22.82
	1/37	23.00	22.70	22.99	22.89	22.72		1/50	23.00	22.76	22.71	22.89	22.90
	1/74	23.00	22.08	22.38	22.23	22.34		1/99	23.00	22.85	22.97	22.92	22.86
	36/0	22.00	21.48	21.64	21.74	21.82		50/0	22.00	21.53	21.55	21.74	21.84
	36/19	22.00	21.48	21.62	21.72	21.82		50/25	22.00	21.43	21.52	21.75	21.87
	36/39	22.00	21.10	21.23	21.38	21.51		50/50	22.00	21.47	21.51	21.73	21.89
	75/0	22.00	21.41	21.45	21.61	21.80		100/0	22.00	21.51	21.60	21.70	21.90
64QAM	1/0	22.00	21.16	21.16	21.66	21.62	64QAM	1/0	22.00	21.68	21.94	21.93	21.85
	1/37	22.00	21.44	21.42	21.68	21.68		1/50	22.00	21.79	21.80	21.67	21.65
	1/74	22.00	20.77	20.75	21.26	21.30		1/99	22.00	21.94	21.67	21.66	21.62
	36/0	21.00	20.54	20.64	20.74	20.84		50/0	21.00	20.58	20.57	20.71	20.94
	36/19	21.00	20.55	20.61	20.63	20.82		50/25	21.00	20.52	20.54	20.75	20.92
	36/39	21.00	20.24	20.22	20.35	20.53		50/50	21.00	20.53	20.51	20.71	20.89
	75/0	21.00	20.37	20.38	20.56	20.78		100/0	21.00	20.57	20.60	20.77	20.92

Second Antenna_Receiver on

LTE B41/BW=5M		Average Conducted Power(dBm)					LTE B41/BW=10M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz) 40065/ 2537.5	40440/ 2575	40840/ 2615	41215/ 2652.5	Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz) 40090/ 2540	40440/ 2575	40840/ 2615	41190/ 2650
QPSK	1/0	16.00	14.75	14.64	15.29	15.35	QPSK	1/0	16.00	14.85	14.83	15.46	15.69
	1/12	16.00	14.63	14.53	14.97	15.10		1/24	16.00	14.59	14.52	15.09	15.14
	1/24	16.00	14.67	14.57	15.07	15.02		1/49	16.00	14.85	14.86	15.39	15.17
	12/0	16.00	14.66	14.60	15.04	15.12		25/0	16.00	14.73	14.61	15.08	14.96
	12/6	16.00	14.57	14.64	14.99	14.95		25/12	16.00	14.56	14.60	15.07	14.93
	12/13	16.00	14.64	14.58	14.98	14.97		25/25	16.00	14.58	14.57	15.10	14.94
	25/0	16.00	14.72	14.60	15.00	15.03		50/0	16.00	14.69	14.62	15.10	14.95
16QAM	1/0	16.00	15.05	14.85	15.69	15.67	16QAM	1/0	16.00	15.23	15.17	15.94	15.88
	1/12	16.00	14.88	14.74	15.46	15.38		1/24	16.00	14.94	14.85	15.46	15.42
	1/24	16.00	14.90	14.87	15.43	15.44		1/49	16.00	15.23	15.24	15.79	15.54
	12/0	16.00	14.70	14.68	15.17	15.27		25/0	16.00	14.75	14.66	15.11	15.04
	12/6	16.00	14.66	14.65	15.14	15.12		25/12	16.00	14.61	14.63	15.08	14.94
	12/13	16.00	14.67	14.61	15.11	15.11		25/25	16.00	14.63	14.60	15.14	14.95
	25/0	16.00	14.69	14.56	15.05	15.10		50/0	16.00	14.70	14.68	15.12	15.03
64QAM	1/0	16.00	14.80	14.69	15.55	15.53	64QAM	1/0	16.00	14.86	14.81	15.82	15.73
	1/12	16.00	14.76	14.72	15.32	15.54		1/24	16.00	14.54	14.43	15.30	15.07
	1/24	16.00	14.78	14.76	15.29	15.50		1/49	16.00	14.84	14.85	15.67	15.42
	12/0	16.00	14.71	14.63	14.98	15.12		25/0	16.00	14.78	14.66	14.95	14.96
	12/6	16.00	14.61	14.63	14.96	15.04		25/12	16.00	14.61	14.63	14.96	14.86
	12/13	16.00	14.68	14.60	14.95	14.99		25/25	16.00	14.64	14.60	15.04	14.86
	25/0	16.00	14.77	14.62	14.89	14.93		50/0	16.00	14.66	14.60	15.01	14.94

LTE B41/BW=15M		Average Conducted Power(dBm)					LTE B41/BW=20M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40115/ 2542.5	40440/ 2575	40840/ 2615	41165/ 2647.5				40140/ 2545	40440/ 2575	40840/ 2615	41140/ 2645
QPSK	1/0	16.00	14.56	14.58	14.99	14.91	QPSK	1/0	16.00	15.81	15.85	15.82	15.87
	1/37	16.00	14.84	14.95	15.28	15.36		1/50	16.00	15.76	15.80	15.78	15.76
	1/74	16.00	14.20	14.18	14.57	14.61		1/99	16.00	**15.90**	15.87	15.87	15.88
	36/0	16.00	14.97	15.07	15.32	15.49		50/0	16.00	15.00	15.08	15.40	15.40
	36/19	16.00	15.00	15.10	15.30	15.42		50/25	16.00	15.05	15.07	15.32	15.37
	36/39	16.00	14.72	14.74	14.95	15.09		50/50	16.00	15.01	15.07	15.36	**15.40**
	75/0	16.00	14.85	14.89	15.20	15.23		100/0	16.00	14.99	15.08	15.40	15.48
16QAM	1/0	16.00	14.96	14.92	15.37	15.15	16QAM	1/0	16.00	15.37	15.44	15.78	15.65
	1/37	16.00	15.20	15.24	15.67	15.61		1/50	16.00	15.29	15.30	15.85	15.58
	1/74	16.00	14.52	14.50	14.86	14.89		1/99	16.00	15.46	15.57	15.86	15.90
	36/0	16.00	14.92	15.08	15.34	15.53		50/0	16.00	14.94	15.10	15.43	15.40
	36/19	16.00	14.96	15.13	15.33	15.43		50/25	16.00	14.99	15.07	15.38	15.39
	36/39	16.00	14.68	14.71	14.98	15.12		50/50	16.00	14.96	15.08	15.40	15.44
	75/0	16.00	14.88	14.92	15.18	15.27		100/0	16.00	14.99	15.10	15.43	15.45
64QAM	1/0	16.00	14.51	14.46	15.21	14.81	64QAM	1/0	16.00	15.65	15.76	15.87	15.91
	1/37	16.00	14.80	14.84	15.45	15.39		1/50	16.00	15.66	15.67	15.84	15.79
	1/74	16.00	14.08	14.09	14.64	14.70		1/99	16.00	15.74	15.90	15.92	15.88
	36/0	16.00	15.02	15.12	15.26	15.49		50/0	16.00	15.03	15.10	15.38	15.42
	36/19	16.00	15.04	15.19	15.23	15.38		50/25	16.00	15.02	15.11	15.30	15.36
	36/39	16.00	14.75	14.79	14.85	15.07		50/50	16.00	15.02	15.08	15.36	15.40
	75/0	16.00	14.82	14.88	15.17	15.26		100/0	16.00	15.01	15.10	15.45	15.40

Second Antenna_Receiver off

LTE B41/BW=5M		Average Conducted Power(dBm)					LTE B41/BW=10M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz) 40065/ 2537.5	40440/ 2575	40840/ 2615	41215/ 2652.5	Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz) 40090/ 2540	40440/ 2575	40840/ 2615	41190/ 2650
QPSK	1/0	24.00	22.94	23.07	23.47	23.45	QPSK	1/0	24.00	23.17	23.29	23.31	23.35
	1/12	24.00	22.89	22.99	23.41	23.45		1/24	24.00	22.91	23.02	23.16	23.21
	1/24	24.00	22.95	23.04	23.43	23.37		1/49	24.00	23.13	23.33	23.43	23.44
	12/0	23.00	22.00	22.17	22.37	22.66		25/0	23.00	22.00	22.32	22.29	22.54
	12/6	23.00	21.91	22.18	22.30	22.49		25/12	23.00	22.04	22.24	22.34	22.43
	12/13	23.00	22.02	22.22	22.29	22.47		25/25	23.00	21.99	22.25	22.37	22.44
	25/0	23.00	21.90	22.15	22.33	22.60		50/0	23.00	21.97	22.30	22.38	22.51
16QAM	1/0	23.00	22.43	22.67	22.52	22.86	16QAM	1/0	23.00	22.55	22.76	22.78	22.96
	1/12	23.00	22.17	22.54	22.54	22.35		1/24	23.00	22.33	22.56	22.60	22.68
	1/24	23.00	22.25	22.54	22.52	22.96		1/49	23.00	22.53	22.76	22.89	22.80
	12/0	22.00	21.04	21.28	21.37	21.69		25/0	22.00	21.01	21.30	21.33	21.58
	12/6	22.00	21.06	21.28	21.35	21.59		25/12	22.00	21.09	21.26	21.38	21.53
	12/13	22.00	21.05	21.32	21.30	21.56		25/25	22.00	21.05	21.31	21.42	21.45
	25/0	22.00	21.04	21.28	21.33	21.67		50/0	22.00	20.97	21.28	21.38	21.47
64QAM	1/0	22.00	21.25	21.69	21.50	21.50	64QAM	1/0	22.00	21.51	21.68	21.64	21.81
	1/12	22.00	21.14	21.65	21.59	21.73		1/24	22.00	21.28	21.40	21.42	21.52
	1/24	22.00	21.20	21.66	21.55	21.66		1/49	22.00	21.59	21.63	21.74	21.82
	12/0	21.00	20.04	20.08	20.37	20.70		25/0	21.00	20.08	20.29	20.37	20.57
	12/6	21.00	20.02	20.10	20.33	20.58		25/12	21.00	20.10	20.18	20.40	20.51
	12/13	21.00	20.07	20.09	20.33	20.60		25/25	21.00	20.04	20.19	20.44	20.50
	25/0	21.00	20.03	20.14	20.32	20.66		50/0	21.00	20.04	20.20	20.38	20.51

LTE B41/BW=15M		Average Conducted Power(dBm)					LTE B41/BW=20M		Average Conducted Power(dBm)				
Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)				Modula -tion	RB Size/ Offset	Max. Tune up	Channel/Frequency(MHz)			
			40115/ 2542.5	40440/ 2575	40840/ 2615	41165/ 2647.5				40140/ 2545	40440/ 2575	40840/ 2615	41140/ 2645
QPSK	1/0	24.00	22.78	22.80	22.83	23.00	QPSK	1/0	24.00	23.21	23.26	23.26	23.46
	1/37	24.00	23.00	23.05	23.06	23.40		1/50	24.00	22.90	22.97	23.05	23.34
	1/74	24.00	22.38	22.47	22.51	22.69		1/99	24.00	23.20	23.39	23.30	**23.49**
	36/0	23.00	22.02	22.00	22.12	22.48		50/0	23.00	21.99	22.14	22.08	**22.41**
	36/19	23.00	21.98	22.09	21.99	22.39		50/25	23.00	21.94	22.09	22.07	22.37
	36/39	23.00	21.75	21.73	21.79	22.10		50/50	23.00	22.08	22.10	22.20	22.39
	75/0	23.00	21.88	21.82	21.95	22.27		100/0	23.00	22.04	22.22	22.17	22.60
16QAM	1/0	23.00	22.02	22.08	22.17	22.19	16QAM	1/0	23.00	22.71	22.71	22.87	22.94
	1/37	23.00	22.21	22.28	22.30	22.67		1/50	23.00	22.36	22.47	22.67	22.87
	1/74	23.00	21.68	21.74	21.75	21.90		1/99	23.00	22.72	22.79	22.94	22.99
	36/0	22.00	21.06	21.10	21.15	21.44		50/0	22.00	21.06	21.21	21.22	21.54
	36/19	22.00	21.04	21.10	21.08	21.38		50/25	22.00	21.03	21.12	21.23	21.46
	36/39	22.00	20.77	20.74	20.77	21.03		50/50	22.00	21.13	21.15	21.32	21.56
	75/0	22.00	20.91	20.89	20.96	21.30		100/0	22.00	21.12	21.15	21.32	21.56
64QAM	1/0	22.00	21.05	21.10	21.25	21.20	64QAM	1/0	22.00	21.40	21.44	21.45	21.64
	1/37	22.00	21.19	21.20	21.51	21.60		1/50	22.00	21.18	21.27	21.18	21.54
	1/74	22.00	20.62	20.71	20.87	20.93		1/99	22.00	21.42	21.50	21.51	21.65
	36/0	21.00	20.09	20.09	20.16	20.48		50/0	21.00	20.03	20.19	20.18	20.51
	36/19	21.00	20.10	20.15	20.13	20.40		50/25	21.00	20.03	20.09	20.14	20.37
	36/39	21.00	19.82	19.76	19.81	20.18		50/50	21.00	20.04	20.19	20.25	20.45
	75/0	21.00	19.89	19.91	19.95	20.34		100/0	21.00	20.02	20.16	20.24	20.55

Note: The tested channels are marks in bold.

10. Conducted power measurement results of LTE B66

Main Antenna_Receiver on

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745	132665/ 1779.3				131987/ 1711.5	132322/ 1745	132657/ 1778.5
QPSK	1/0	24.00	23.34	23.49	23.43	QPSK	1/0	24.00	23.26	23.43	23.50
	1/2	24.00	23.39	23.54	23.47		1/7	24.00	23.53	23.41	23.51
	1/5	24.00	23.20	23.37	23.37		1/14	24.00	23.19	23.40	23.44
	3/0	24.00	23.34	23.42	23.58		8/0	23.00	22.32	22.38	22.49
	3/1	24.00	23.49	23.48	23.53		8/3	23.00	22.24	22.37	22.49
	3/3	24.00	23.27	23.38	23.58		8/7	23.00	22.25	22.31	22.51
	6/0	23.00	22.29	22.33	22.43		15/0	23.00	22.27	22.36	22.51
16QAM	1/0	23.00	22.48	22.84	22.52	16QAM	1/0	23.00	22.22	22.85	22.56
	1/2	23.00	22.54	22.85	22.49		1/7	23.00	22.25	22.78	22.54
	1/5	23.00	22.45	22.86	22.55		1/14	23.00	22.15	22.76	22.51
	3/0	23.00	22.39	22.59	22.74		8/0	22.00	21.47	21.54	21.51
	3/1	23.00	22.43	22.58	22.77		8/3	22.00	21.40	21.53	21.55
	3/3	23.00	22.33	22.55	22.78		8/7	22.00	21.41	21.46	21.53
	6/0	22.00	21.50	21.32	21.65		15/0	22.00	21.32	21.45	21.45
64QAM	1/0	22.00	21.43	21.69	21.82	64QAM	1/0	22.00	21.68	21.51	21.79
	1/2	22.00	21.49	21.61	21.95		1/7	22.00	21.70	21.72	21.74
	1/5	22.00	21.35	21.64	21.82		1/14	22.00	21.57	21.50	21.73
	3/0	22.00	21.42	21.39	21.86		8/0	21.00	20.41	20.48	20.45
	3/1	22.00	21.46	21.39	21.82		8/3	21.00	20.33	20.47	20.44
	3/3	22.00	21.37	21.33	21.83		8/7	21.00	20.36	20.41	20.45
	6/0	21.00	20.63	20.45	20.46		15/0	21.00	20.28	20.44	20.51

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131997/ 1712.5	132322/ 1745	132647/ 1777.5				132022/ 1715	132322/ 1745	132622/ 1775
QPSK	1/0	24.00	23.45	23.65	23.59	QPSK	1/0	24.00	22.66	22.97	22.93
	1/12	24.00	23.28	23.44	23.54		1/24	24.00	23.21	23.42	23.52
	1/24	24.00	23.36	23.42	23.52		1/49	24.00	23.78	23.93	23.36
	12/0	23.00	22.33	22.38	22.55		25/0	23.00	22.17	22.33	22.44
	12/6	23.00	22.33	22.38	22.53		25/12	23.00	22.28	22.32	22.54
	12/13	23.00	22.25	22.32	22.55		25/25	23.00	22.35	22.52	22.63
	25/0	23.00	22.33	22.31	22.51		50/0	23.00	22.33	22.38	22.51
16QAM	1/0	23.00	22.58	22.63	22.67	16QAM	1/0	23.00	21.79	22.31	21.91
	1/12	23.00	22.45	22.89	22.61		1/24	23.00	22.37	22.79	22.47
	1/24	23.00	22.41	22.94	22.58		1/49	23.00	22.79	22.32	22.52
	12/0	22.00	21.39	21.57	21.58		25/0	22.00	21.19	21.41	21.52
	12/6	22.00	21.41	21.55	21.54		25/12	22.00	21.35	21.39	21.61
	12/13	22.00	21.36	21.52	21.55		25/25	22.00	21.40	21.53	21.69
	25/0	22.00	21.34	21.40	21.47		50/0	22.00	21.31	21.47	21.54
64QAM	1/0	22.00	21.34	21.85	21.87	64QAM	1/0	22.00	21.08	21.03	21.05
	1/12	22.00	21.19	21.78	21.79		1/24	22.00	21.54	21.52	21.63
	1/24	22.00	21.19	21.72	21.72		1/49	22.00	21.63	21.76	21.75
	12/0	21.00	20.36	20.38	20.60		25/0	21.00	20.23	20.44	20.51
	12/6	21.00	20.40	20.42	20.57		25/12	21.00	20.33	20.44	20.63
	12/13	21.00	20.29	20.36	20.54		25/25	21.00	20.38	20.63	20.73
	25/0	21.00	20.33	20.32	20.55		50/0	21.00	20.35	20.48	20.49

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			132047/ 1717.5	132322/ 1745	132597/ 1772.5				132072/ 1720	132322/ 1745	132572/ 1770
QPSK	1/0	24.00	23.58	23.64	23.63	QPSK	1/0	24.00	23.28	23.21	23.28
	1/37	24.00	23.15	23.32	23.40		1/50	24.00	23.34	22.37	23.24
	1/74	24.00	23.41	23.66	23.65		1/99	24.00	**23.94**	23.80	23.57
	36/0	23.00	22.38	22.66	22.50		50/0	23.00	22.22	22.32	22.31
	36/19	23.00	22.29	22.31	22.41		50/25	23.00	22.26	22.32	22.45
	36/39	23.00	22.22	22.31	22.41		50/50	23.00	22.37	22.39	**22.48**
	75/0	23.00	22.24	22.40	22.41		100/0	23.00	22.34	22.41	22.43
16QAM	1/0	23.00	22.57	22.51	22.55	16QAM	1/0	23.00	22.70	22.72	22.86
	1/37	23.00	22.21	22.71	22.85		1/50	23.00	22.77	22.37	22.88
	1/74	23.00	22.42	22.45	22.56		1/99	23.00	22.27	22.35	22.45
	36/0	22.00	21.41	21.35	21.43		50/0	22.00	21.28	21.39	21.36
	36/19	22.00	21.29	21.43	21.40		50/25	22.00	21.32	21.41	21.49
	36/39	22.00	21.23	21.36	21.40		50/50	22.00	21.37	21.49	21.52
	75/0	22.00	21.26	21.41	21.43		100/0	22.00	21.40	21.33	21.47
64QAM	1/0	22.00	21.97	21.77	21.62	64QAM	1/0	22.00	21.52	21.61	22.00
	1/37	22.00	21.59	21.44	21.95		1/50	22.00	21.53	20.40	21.95
	1/74	22.00	21.81	21.76	21.50		1/99	22.00	21.01	21.22	21.49
	36/0	21.00	20.41	20.76	20.53		50/0	21.00	20.29	20.45	20.37
	36/19	21.00	20.33	20.45	20.46		50/25	21.00	20.31	20.45	20.52
	36/39	21.00	20.24	20.39	20.42		50/50	21.00	20.40	20.52	20.60
	75/0	21.00	20.27	20.44	20.49		100/0	21.00	20.37	20.36	20.45

Main Antenna_Receiver off

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745	132665/ 1779.3				131987/ 1711.5	132322/ 1745	132657/ 1778.5
QPSK	1/0	23.50	22.79	22.95	23.04	QPSK	1/0	23.50	22.77	22.93	23.02
	1/2	23.50	22.84	22.98	23.03		1/7	23.50	23.10	23.13	23.02
	1/5	23.50	22.82	22.83	22.95		1/14	23.50	22.75	22.83	22.95
	3/0	23.50	22.81	22.86	22.89		8/0	22.50	22.29	22.36	22.47
	3/1	23.50	22.95	22.92	23.11		8/3	22.50	22.19	22.33	22.49
	3/3	23.50	22.73	22.79	23.01		8/7	22.50	22.22	22.30	22.46
	6/0	22.50	22.25	22.28	22.42		15/0	22.50	22.25	22.32	22.47
16QAM	1/0	23.00	22.39	22.50	22.91	16QAM	1/0	23.00	22.22	22.82	22.55
	1/2	23.00	22.49	22.54	22.93		1/7	23.00	22.20	22.78	22.50
	1/5	23.00	22.33	22.43	22.51		1/14	23.00	22.09	22.82	22.50
	3/0	23.00	22.29	22.41	22.67		8/0	21.50	21.44	21.17	21.18
	3/1	23.00	22.49	22.52	22.78		8/3	21.50	21.35	21.50	21.17
	3/3	23.00	22.24	22.43	22.70		8/7	21.50	21.36	21.45	21.16
	6/0	22.00	21.45	21.51	21.38		15/0	21.50	21.28	21.45	21.42
64QAM	1/0	22.00	21.38	21.57	21.89	64QAM	1/0	22.00	21.72	21.79	21.63
	1/2	22.00	21.45	21.53	21.98		1/7	22.00	21.51	21.80	21.80
	1/5	22.00	21.32	21.47	21.82		1/14	22.00	21.48	21.74	21.63
	3/0	22.00	21.36	21.55	21.85		8/0	21.00	20.35	20.55	20.53
	3/1	22.00	21.50	21.59	21.81		8/3	21.00	20.27	20.49	20.60
	3/3	22.00	21.32	21.53	21.79		8/7	21.00	20.33	20.43	20.53
	6/0	21.00	20.57	20.66	20.46		15/0	21.00	20.37	20.42	20.54

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131997/ 1712.5	132322/ 1745	132647/ 1777.5				132022/ 1715	132322/ 1745	132622/ 1775
QPSK	1/0	23.50	22.95	23.02	23.14	QPSK	1/0	23.50	22.20	22.41	22.41
	1/12	23.50	22.77	23.00	23.05		1/24	23.50	22.69	22.91	22.97
	1/24	23.50	22.85	22.99	23.01		1/49	23.50	23.31	23.41	23.11
	12/0	22.50	22.27	22.37	22.40		25/0	22.50	22.18	22.30	22.40
	12/6	22.50	22.28	22.36	22.39		25/12	22.50	22.28	22.30	22.14
	12/13	22.50	22.21	22.29	22.37		25/25	22.50	22.32	22.14	22.23
	25/0	22.50	22.29	22.28	22.46		50/0	22.50	22.33	22.36	22.49
16QAM	1/0	23.00	22.53	22.95	22.62	16QAM	1/0	23.00	21.73	22.26	21.87
	1/12	23.00	22.46	22.86	22.56		1/24	23.00	22.32	22.75	22.46
	1/24	23.00	22.45	22.90	22.61		1/49	23.00	22.78	22.88	22.29
	12/0	21.50	21.38	21.42	21.46		25/0	21.50	21.19	21.36	21.48
	12/6	21.50	21.40	21.41	21.38		25/12	21.50	21.31	21.36	21.23
	12/13	21.50	21.33	21.38	21.38		25/25	21.50	21.38	21.49	21.29
	25/0	21.50	21.33	21.40	21.44		50/0	21.50	21.31	21.45	21.14
64QAM	1/0	22.00	21.38	21.86	21.88	64QAM	1/0	22.00	20.99	21.28	21.02
	1/12	22.00	21.24	21.77	21.78		1/24	22.00	21.45	21.69	21.60
	1/24	22.00	21.22	21.77	21.74		1/49	22.00	21.66	21.85	21.74
	12/0	21.00	20.37	20.40	20.59		25/0	21.00	20.27	20.43	20.54
	12/6	21.00	20.39	20.41	20.57		25/12	21.00	20.38	20.40	20.64
	12/13	21.00	20.30	20.37	20.53		25/25	21.00	20.49	20.53	20.74
	25/0	21.00	20.35	20.33	20.55		50/0	21.00	20.33	20.47	20.58

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			132047/ 1717.5	132322/ 1745	132597/ 1772.5				132072/ 1720	132322/ 1745	132572/ 1770
QPSK	1/0	23.50	23.07	23.14	23.17	QPSK	1/0	23.50	22.70	22.88	22.83
	1/37	23.50	22.69	22.81	22.88		1/50	23.50	22.71	22.35	22.83
	1/74	23.50	22.88	23.14	23.14		1/99	23.50	23.33	**23.45**	23.38
	36/0	22.50	22.35	22.23	22.47		50/0	22.50	22.22	22.35	22.35
	36/19	22.50	22.29	22.28	22.39		50/25	22.50	22.24	22.35	**22.48**
	36/39	22.50	22.20	22.27	22.39		50/50	22.50	22.35	22.42	22.48
	75/0	22.50	22.23	22.38	22.39		100/0	22.50	22.32	22.37	22.48
16QAM	1/0	23.00	22.55	22.99	22.70	16QAM	1/0	23.00	22.72	22.56	22.82
	1/37	23.00	22.19	22.63	22.85		1/50	23.00	22.74	22.64	22.80
	1/74	23.00	22.42	22.72	22.95		1/99	23.00	22.89	22.82	22.72
	36/0	21.50	21.38	21.33	21.44		50/0	21.50	21.21	21.32	21.31
	36/19	21.50	21.28	21.38	21.39		50/25	21.50	21.26	21.34	21.40
	36/39	21.50	21.20	21.32	21.40		50/50	21.50	21.34	21.41	21.46
	75/0	21.50	21.22	21.39	21.41		100/0	21.50	21.32	21.35	21.43
64QAM	1/0	22.00	21.99	21.81	21.93	64QAM	1/0	22.00	21.55	21.96	21.70
	1/37	22.00	21.61	21.48	21.96		1/50	22.00	21.63	20.46	21.70
	1/74	22.00	21.81	21.81	21.99		1/99	22.00	21.14	21.54	21.21
	36/0	21.00	20.43	20.50	20.55		50/0	21.00	20.30	20.43	20.42
	36/19	21.00	20.36	20.48	20.48		50/25	21.00	20.37	20.47	20.54
	36/39	21.00	20.26	20.41	20.43		50/50	21.00	20.46	20.52	20.54
	75/0	21.00	20.29	20.47	20.50		100/0	21.00	20.37	20.39	20.52

Second Antenna_Receiver on

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745	132665/ 1779.3				131987/ 1711.5	132322/ 1745	132657/ 1778.5
QPSK	1/0	19.00	18.24	18.23	18.19	QPSK	1/0	19.00	18.21	18.25	18.30
	1/2	19.00	18.29	18.30	18.29		1/7	19.00	18.32	18.35	18.31
	1/5	19.00	18.16	18.18	18.20		1/14	19.00	18.12	18.13	18.22
	3/0	19.00	18.21	18.28	18.24		8/0	19.00	18.20	18.22	18.26
	3/1	19.00	18.30	18.30	18.27		8/3	19.00	18.12	18.22	18.24
	3/3	19.00	18.08	18.19	18.28		8/7	19.00	18.10	18.13	18.24
	6/0	19.00	18.17	18.18	18.17		15/0	19.00	18.15	18.16	18.25
16QAM	1/0	19.00	18.35	18.67	18.30	16QAM	1/0	19.00	18.17	18.66	18.40
	1/2	19.00	18.40	18.67	18.23		1/7	19.00	18.10	18.70	18.33
	1/5	19.00	18.30	18.57	18.26		1/14	19.00	18.05	18.54	18.36
	3/0	19.00	18.31	18.45	18.44		8/0	19.00	18.35	18.35	18.29
	3/1	19.00	18.40	18.42	18.46		8/3	19.00	18.27	18.34	18.31
	3/3	19.00	18.19	18.37	18.47		8/7	19.00	18.25	18.27	18.26
	6/0	19.00	18.38	18.08	18.40		15/0	19.00	18.18	18.26	18.23
64QAM	1/0	19.00	18.37	18.39	18.69	64QAM	1/0	19.00	18.30	18.47	18.63
	1/2	19.00	18.38	18.42	18.73		1/7	19.00	18.38	18.44	18.66
	1/5	19.00	18.32	18.28	18.60		1/14	19.00	18.25	18.34	18.54
	3/0	19.00	18.11	18.36	18.53		8/0	19.00	18.29	18.22	18.27
	3/1	19.00	18.17	18.40	18.58		8/3	19.00	18.23	18.19	18.30
	3/3	19.00	18.09	18.35	18.54		8/7	19.00	18.23	18.10	18.30
	6/0	19.00	18.24	18.49	18.19		15/0	19.00	18.23	18.26	18.23

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131997/ 1712.5	132322/ 1745	132647/ 1777.5				132022/ 1715	132322/ 1745	132622/ 1775
QPSK	1/0	19.00	18.39	18.44	18.44	QPSK	1/0	19.00	17.70	17.81	17.74
	1/12	19.00	18.24	18.22	18.37		1/24	19.00	18.19	18.30	18.31
	1/24	19.00	18.18	18.23	18.35		1/49	19.00	18.77	18.80	18.77
	12/0	19.00	18.17	18.24	18.32		25/0	19.00	18.14	18.23	18.24
	12/6	19.00	18.18	18.25	18.30		25/12	19.00	18.22	18.18	18.34
	12/13	19.00	18.15	18.18	18.29		25/25	19.00	18.29	18.36	18.43
	25/0	19.00	18.21	18.18	18.26		50/0	19.00	18.28	18.28	18.33
16QAM	1/0	19.00	18.51	18.87	18.55	16QAM	1/0	19.00	17.65	18.15	17.72
	1/12	19.00	18.32	18.77	18.51		1/24	19.00	18.21	18.59	18.22
	1/24	19.00	18.29	18.74	18.50		1/49	19.00	18.72	18.79	18.77
	12/0	19.00	18.28	18.40	18.39		25/0	19.00	18.10	18.19	18.30
	12/6	19.00	18.31	18.36	18.34		25/12	19.00	18.20	18.18	18.40
	12/13	19.00	18.24	18.33	18.36		25/25	19.00	18.29	18.29	18.43
	25/0	19.00	18.24	18.23	18.32		50/0	19.00	18.24	18.28	18.30
64QAM	1/0	19.00	18.27	18.69	18.64	64QAM	1/0	19.00	18.00	17.90	17.92
	1/12	19.00	18.11	18.55	18.51		1/24	19.00	18.45	18.36	18.42
	1/24	19.00	18.09	18.54	18.52		1/49	19.00	18.76	18.89	18.95
	12/0	19.00	18.24	18.17	18.37		25/0	19.00	18.14	18.26	18.29
	12/6	19.00	18.21	18.21	18.35		25/12	19.00	18.23	18.26	18.37
	12/13	19.00	18.19	18.14	18.30		25/25	19.00	18.27	18.42	18.50
	25/0	19.00	18.21	18.12	18.31		50/0	19.00	18.24	18.32	18.27

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			132047/ 1717.5	132322/ 1745	132597/ 1772.5				132072/ 1720	132322/ 1745	132572/ 1770
QPSK	1/0	19.00	18.58	18.59	18.50	QPSK	1/0	19.00	18.68	18.60	18.68
	1/37	19.00	18.15	18.17	18.22		1/50	19.00	18.65	**18.89**	18.64
	1/74	19.00	18.38	18.52	18.45		1/99	19.00	18.72	18.69	18.71
	36/0	19.00	18.31	18.52	18.33		50/0	19.00	18.14	18.21	18.13
	36/19	19.00	18.23	18.18	18.23		50/25	19.00	18.16	18.16	18.27
	36/39	19.00	18.14	18.10	18.18		50/50	19.00	18.23	18.20	**18.28**
	75/0	19.00	18.18	18.22	18.19		100/0	19.00	18.22	18.22	18.26
16QAM	1/0	19.00	18.50	18.63	18.82	16QAM	1/0	19.00	18.68	18.61	18.59
	1/37	19.00	18.07	18.51	18.62		1/50	19.00	18.66	18.27	18.50
	1/74	19.00	18.35	18.86	18.83		1/99	19.00	18.62	18.62	18.55
	36/0	19.00	18.32	18.86	18.22		50/0	19.00	18.13	18.19	18.06
	36/19	19.00	18.17	18.24	18.15		50/25	19.00	18.18	18.19	18.17
	36/39	19.00	18.11	18.13	18.16		50/50	19.00	18.27	18.27	18.24
	75/0	19.00	18.13	18.21	18.19		100/0	19.00	18.28	18.15	18.20
64QAM	1/0	19.00	18.64	18.85	18.58	64QAM	1/0	19.00	18.46	18.77	18.35
	1/37	19.00	18.80	18.47	18.29		1/50	19.00	18.47	18.29	18.38
	1/74	19.00	18.71	18.82	18.53		1/99	19.00	18.62	18.77	18.67
	36/0	19.00	18.30	18.82	18.34		50/0	19.00	18.14	18.21	18.10
	36/19	19.00	18.18	18.22	18.26		50/25	19.00	18.22	18.17	18.24
	36/39	19.00	18.10	18.13	18.24		50/50	19.00	18.29	18.28	18.20
	75/0	19.00	18.21	18.24	18.20		100/0	19.00	18.22	18.13	18.23

Second Antenna_Receiver off

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745	132665/ 1779.3				131987/ 1711.5	132322/ 1745	132657/ 1778.5
QPSK	1/0	24.00	23.01	23.01	22.98	QPSK	1/0	24.00	22.93	23.11	23.03
	1/2	24.00	23.07	23.08	23.03		1/7	24.00	23.17	23.07	23.06
	1/5	24.00	22.91	23.11	22.95		1/14	24.00	23.00	23.08	22.90
	3/0	24.00	22.97	22.99	23.01		8/0	23.00	22.02	22.02	21.96
	3/1	24.00	23.01	23.10	22.99		8/3	23.00	21.95	22.03	21.98
	3/3	24.00	22.95	23.12	22.97		8/7	23.00	21.96	22.06	21.96
	6/0	23.00	21.96	21.98	21.90		15/0	23.00	21.96	21.99	21.96
16QAM	1/0	23.00	22.43	22.03	22.07	16QAM	1/0	23.00	21.92	22.49	22.00
	1/2	23.00	22.39	22.04	22.09		1/7	23.00	21.92	22.52	22.01
	1/5	23.00	22.39	22.13	22.13		1/14	23.00	21.91	22.52	22.00
	3/0	23.00	22.28	22.20	21.99		8/0	22.00	21.14	21.12	21.06
	3/1	23.00	22.31	22.25	21.98		8/3	22.00	21.07	21.11	21.06
	3/3	23.00	22.18	22.27	22.01		8/7	22.00	21.11	21.16	21.01
	6/0	22.00	20.91	21.13	21.09		15/0	22.00	20.96	21.05	20.95
64QAM	1/0	22.00	21.02	21.30	21.10	64QAM	1/0	22.00	21.30	21.48	21.12
	1/2	22.00	21.16	21.24	21.12		1/7	22.00	21.31	21.43	21.26
	1/5	22.00	20.95	21.33	21.06		1/14	22.00	21.25	21.43	21.12
	3/0	22.00	21.16	21.00	21.10		8/0	21.00	20.03	20.13	20.00
	3/1	22.00	21.15	20.92	21.15		8/3	21.00	19.98	20.14	20.03
	3/3	22.00	21.01	20.99	21.15		8/7	21.00	20.02	20.13	20.03
	6/0	21.00	20.30	20.06	20.24		15/0	21.00	20.08	20.03	20.03

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			131997/ 1712.5	132322/ 1745	132647/ 1777.5				132022/ 1715	132322/ 1745	132622/ 1775
QPSK	1/0	24.00	23.18	23.34	23.21	QPSK	1/0	24.00	22.55	22.51	22.46
	1/12	24.00	23.03	23.09	23.05		1/24	24.00	23.10	22.97	22.97
	1/24	24.00	23.03	23.16	23.04		1/49	24.00	23.66	23.56	23.00
	12/0	23.00	22.01	22.14	22.04		25/0	23.00	21.95	22.04	21.96
	12/6	23.00	22.05	22.04	22.03		25/12	23.00	22.12	22.09	22.04
	12/13	23.00	21.98	22.09	21.98		25/25	23.00	22.19	22.18	22.17
	25/0	23.00	22.07	22.05	21.99		50/0	23.00	22.08	22.07	22.00
16QAM	1/0	23.00	22.28	22.71	22.29	16QAM	1/0	23.00	21.55	21.99	21.43
	1/12	23.00	22.15	22.59	22.20		1/24	23.00	22.15	22.49	21.94
	1/24	23.00	22.21	22.55	22.19		1/49	23.00	22.55	22.02	22.16
	12/0	22.00	21.09	21.24	21.16		25/0	22.00	20.99	21.08	21.06
	12/6	22.00	21.13	21.20	21.13		25/12	22.00	21.13	21.10	21.17
	12/13	22.00	21.07	21.20	21.10		25/25	22.00	21.22	21.18	21.20
	25/0	22.00	21.07	21.09	21.05		50/0	22.00	21.00	21.10	21.06
64QAM	1/0	22.00	21.37	21.16	21.34	64QAM	1/0	22.00	20.86	20.74	20.64
	1/12	22.00	21.26	21.01	21.28		1/24	22.00	21.39	21.16	21.16
	1/24	22.00	21.34	21.00	21.26		1/49	22.00	21.87	21.74	21.69
	12/0	21.00	20.11	20.17	20.11		25/0	21.00	20.02	20.14	20.04
	12/6	21.00	20.13	20.08	20.06		25/12	21.00	20.20	20.12	20.11
	12/13	21.00	20.07	20.15	20.03		25/25	21.00	20.20	20.27	20.23
	25/0	21.00	20.12	20.04	20.04		50/0	21.00	20.07	20.15	20.01

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)			Modula -tion	RB Size/ Offset	Max. Tune-up	Channel/Frequency(MHz)		
			132047/ 1717.5	132322/ 1745	132597/ 1772.5				132072/ 1720	132322/ 1745	132572/ 1770
QPSK	1/0	24.00	23.25	23.34	23.01	QPSK	1/0	24.00	23.07	22.99	22.81
	1/37	24.00	22.91	22.94	22.92		1/50	24.00	22.98	22.09	22.90
	1/74	24.00	23.19	23.37	23.16		1/99	24.00	**23.67**	23.54	23.11
	36/0	23.00	22.06	22.37	22.08		50/0	23.00	21.96	22.01	21.91
	36/19	23.00	21.95	21.98	22.02		50/25	23.00	21.95	21.98	22.07
	36/39	23.00	21.94	21.94	22.02		50/50	23.00	22.09	22.05	**22.12**
	75/0	23.00	21.98	22.01	22.02		100/0	23.00	22.06	22.07	22.08
16QAM	1/0	23.00	22.24	22.77	22.52	16QAM	1/0	23.00	22.38	22.59	22.47
	1/37	23.00	21.94	22.34	22.45		1/50	23.00	22.34	21.10	22.41
	1/74	23.00	22.28	22.75	22.72		1/99	23.00	22.73	22.82	22.81
	36/0	22.00	21.08	21.05	21.09		50/0	22.00	20.98	21.00	20.94
	36/19	22.00	20.94	21.01	21.02		50/25	22.00	20.95	20.99	21.06
	36/39	22.00	20.93	21.00	21.05		50/50	22.00	21.10	21.10	21.21
	75/0	22.00	20.98	21.00	21.09		100/0	22.00	21.06	21.04	21.11
64QAM	1/0	22.00	21.63	21.49	21.80	64QAM	1/0	22.00	21.29	21.71	21.24
	1/37	22.00	21.36	21.03	21.65		1/50	22.00	21.29	20.19	21.31
	1/74	22.00	21.63	21.41	21.99		1/99	22.00	21.94	21.75	21.69
	36/0	21.00	20.10	20.41	20.16		50/0	21.00	20.06	20.02	19.96
	36/19	21.00	20.00	20.04	20.06		50/25	21.00	20.03	20.03	20.12
	36/39	21.00	19.98	20.03	20.02		50/50	21.00	20.19	20.15	20.11
	75/0	21.00	20.05	20.04	20.09		100/0	21.00	20.07	20.05	20.16

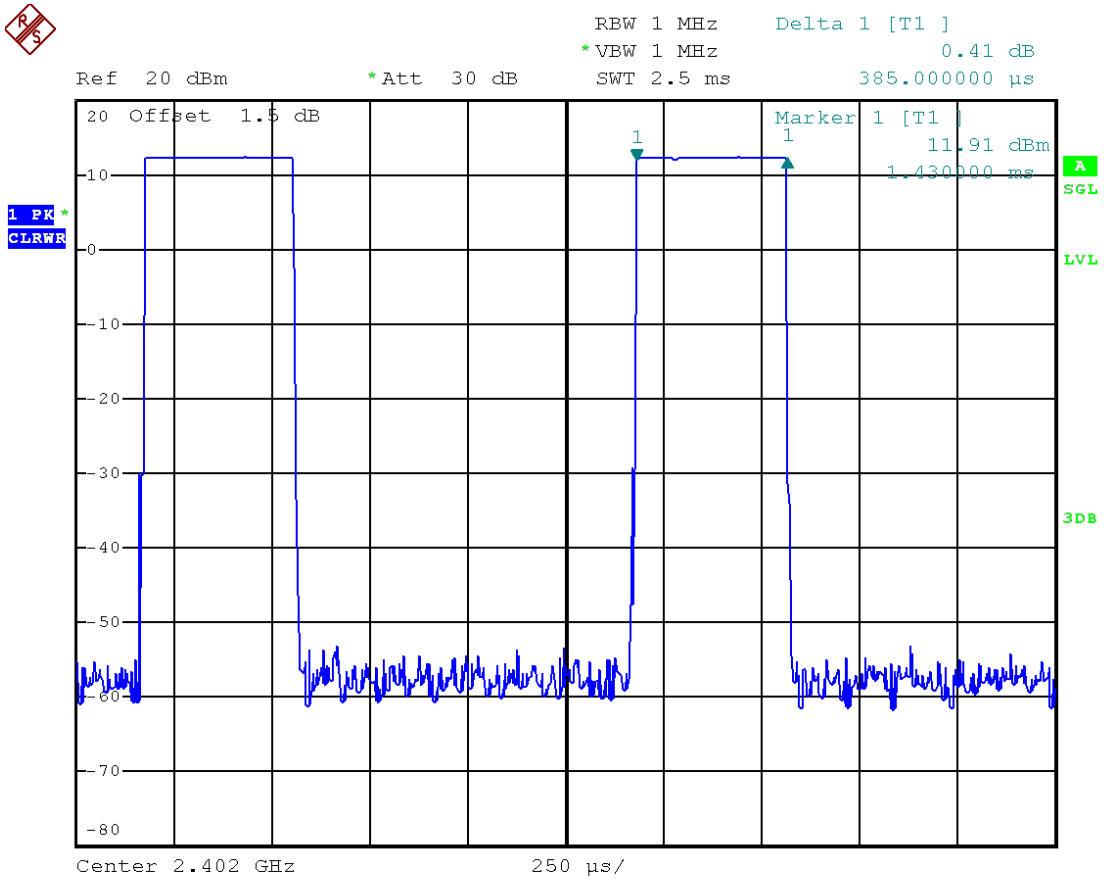
Note: The tested channels are marks in bold.

7.1.4 CONDUCTED POWER MEASUREMENTS OF BT

For BT SAR testing, BT engineering testing software installed on the EUT can provide continuous transmitting RF signal with maximum output power, and the CBT control the EUT operating with hoping off and data rate set for 2DH5. The SAR measurement takes full account of the BT duty cycle and is reflected in the report, and the duty factor of the device is as follow:

BT	Average Conducted Power(dBm)			
	Max. Tune up	CH0	CH39	CH78
		2402	2441	2480
DH5	13.00	12.44	**12.60**	11.83
2DH5	13.50	12.55	12.73	12.11
3DH5	13.50	12.80	13.03	12.28

MODE	ON Time (ms)	Total Time (ms)	Duty cycle
BT	1.43	3.85	37%



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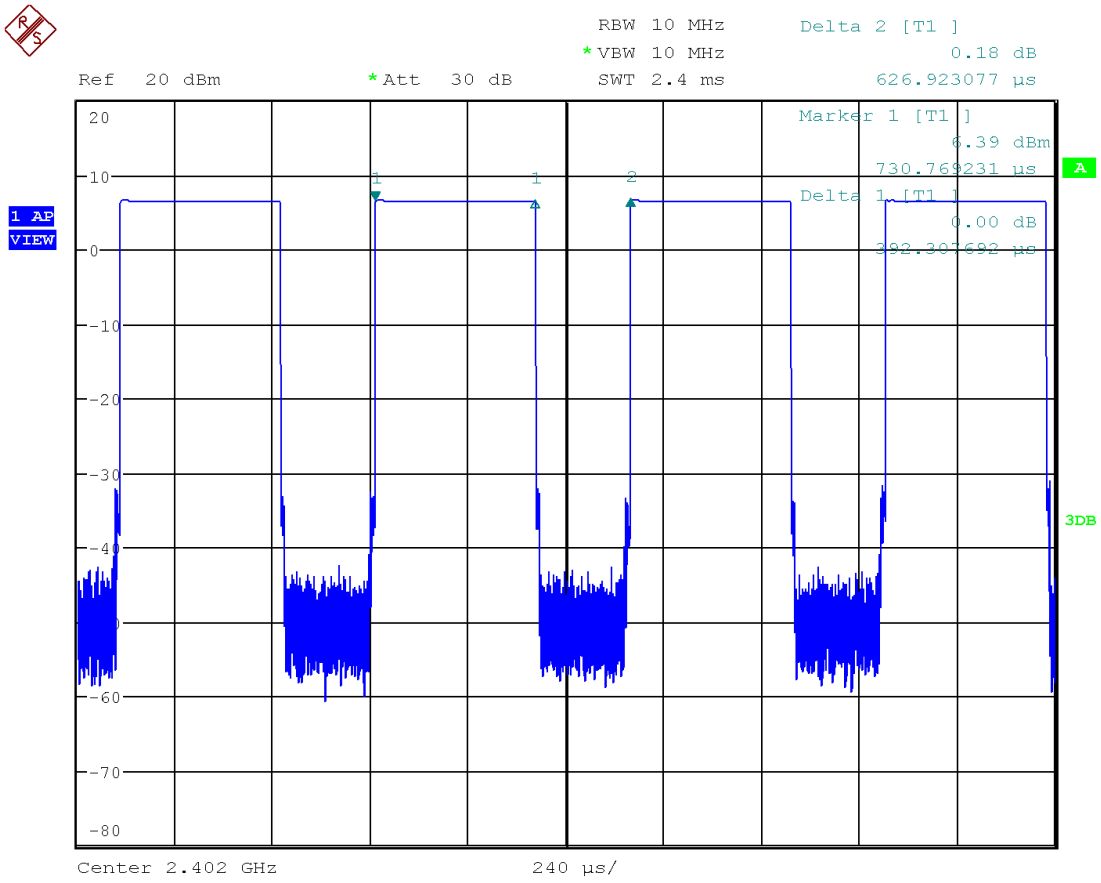
BT	Average Conducted Power(dBm)			
	Max. Tune up	CH0	CH19	CH39
		2402	2441	2480
BLE(1M)	8.50	8.10	8.18	7.46

MODE	ON Time (ms)	Total Time (ms)	Duty cycle
BLE	3.92	7.31	54%



Date: 4.AUG.2020 17:08:22

Note:
1) The conducted power of BT is measured with RMS detector.
2) The tested channels are marks in bold.

7.1.5 CONDUCTED POWER MEASUREMENTS OF WIFI

1. Conducted power measurement results of WiFi 2.4G

Receiver on

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
802.11b	1	2412	1	14.50	**14.46**
	6	2437		14.50	**14.36**
	11	2462		14.50	**14.45**
802.11g	1	2412	6	13.50	13.43
	6	2437		13.50	13.35
	11	2462		13.50	13.44
802.11n HT20	1	2412	6.5	13.50	13.38
	6	2437		13.50	13.32
	11	2462		13.50	13.40

Receiver off

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
802.11b	1	2412	1	20.00	**19.50**
	6	2437		20.00	**19.61**
	11	2462		20.00	**19.87**
802.11g	1	2412	6	19.00	18.58
	6	2437		19.00	18.71
	11	2462		19.00	18.32
802.11n HT20	1	2412	6.5	19.00	18.79
	6	2437		19.00	18.50
	11	2462		19.00	18.84

Note:
1) The Average conducted power of WiFi 2.4G is measured with RMS detector.
2) Per KDB248227 D01, for WiFi 2.4GHz, the highest measured maximum output power Channel for DSSS modes (802.11b) was selected for SAR measurement. SAR for OFDM modes (2.4GHz 802.11g/n) was not required When the highest reported SAR for DSSS is adjusted by the ratio of OFDM modes (802.11g/n) to DSSS modes (802.11b) specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
3) The tested channels are marks in bold.

2. Conducted power measurement results of WiFi 5.2G

Full Power

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G	802.11a	36	5180	6	19.00	18.85
		40	5200		19.00	18.51
		44	5220		19.00	18.52
		48	5240		19.00	18.60
	802.11n HT20	36	5180	MCS0	18.00	17.83
		40	5200		18.00	17.87
		44	5220		18.00	17.89
		48	5240		18.00	17.90
	802.11n HT40	38	5190	MCS0	17.00	16.72
		46	5230		17.00	16.88
	802.11ac VHT20	36	5180	MCS0	19.00	18.82
		40	5200		19.00	18.88
		44	5220		19.00	18.90
		48	5240		19.00	18.91
	802.11ac VHT40	38	5190	MCS0	18.00	17.65
		46	5230		18.00	17.67
	802.11ac VHT80	42	5210	MCS0	18.00	17.64

Receiver on

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G	802.11a	36	5180	6	14.50	14.02
		40	5200		14.50	14.13
		44	5220		14.50	14.16
		48	5240		14.50	14.37
	802.11n HT20	36	5180	MCS0	13.50	13.28
		40	5200		13.50	13.29
		44	5220		13.50	13.36
		48	5240		13.50	13.39
	802.11n HT40	38	5190	MCS0	12.50	12.31
		46	5230		12.50	12.42
	802.11ac VHT20	36	5180	MCS0	14.50	14.30
		40	5200		14.50	14.33
		44	5220		14.50	14.39
		48	5240		14.50	14.40
	802.11ac VHT40	38	5190	MCS0	13.50	13.27
		46	5230		13.50	13.39
	802.11ac VHT80	42	5210	MCS0	13.50	13.35

Receiver off

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.2G	802.11a	36	5180	6	12.50	**12.45**
		40	5200		12.50	**12.42**
		44	5220		12.50	12.02
		48	5240		12.50	**12.06**
	802.11n HT20	36	5180	MCS0	11.50	11.29
		40	5200		11.50	11.32
		44	5220		11.50	11.36
		48	5240		11.50	11.41
	802.11n HT40	38	5190	MCS0	10.50	10.24
		46	5230		10.50	10.31
	802.11ac VHT20	36	5180	MCS0	12.50	12.29
		40	5200		12.50	12.35
		44	5220		12.50	12.38
		48	5240		12.50	12.43
	802.11ac VHT40	38	5190	MCS0	11.50	11.27
		46	5230		11.50	11.31
	802.11ac VHT80	42	5210	MCS0	11.50	11.02

Note:
1) The Average conducted power of WiFi 5.2G is measured with RMS detector.
2) The tested channels are marks in bold.

3. Conducted power measurement results of WiFi 5.3G

Full Power

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G	802.11a	52	5260	6	19.00	**18.57**
		56	5280		19.00	**18.59**
		60	5300		19.00	**18.61**
		64	5320		19.00	17.79
	802.11n HT20	52	5260	MCS0	18.00	17.88
		56	5280		18.00	17.90
		60	5300		18.00	17.92
		64	5320		18.00	17.83
	802.11n HT40	54	5270	MCS0	17.00	16.90
		62	5310		17.00	16.92
	802.11ac VHT20	52	5260	MCS0	19.00	18.88
		56	5280		19.00	18.90
		60	5300		19.00	18.92
		64	5320		19.00	18.69
	802.11ac VHT40	54	5270	MCS0	18.00	17.78
		62	5310		18.00	17.84
	802.11ac VHT80	58	5290	MCS0	18.00	17.79

Receiver on

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G	802.11a	52	5260	6	14.50	14.24
		56	5280		14.50	**14.39**
		60	5300		14.50	**14.46**
		64	5320		14.50	**14.32**
	802.11n HT20	52	5260	MCS0	13.50	13.32
		56	5280		13.50	13.41
		60	5300		13.50	13.06
		64	5320		13.50	13.37
	802.11n HT40	54	5270	MCS0	12.50	12.23
		62	5310		12.50	12.41
	802.11ac VHT20	52	5260	MCS0	14.50	14.13
		56	5280		14.50	14.23
		60	5300		14.50	14.36
		64	5320		14.50	14.15
	802.11ac VHT40	54	5270	MCS0	13.50	13.18
		62	5310		13.50	13.38
	802.11ac VHT80	58	5290	MCS0	13.50	13.40

Receiver off

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.3G	802.11a	52	5260	6	12.50	**12.09**
		56	5280		12.50	**12.22**
		60	5300		12.50	**12.25**
		64	5320		12.50	12.08
	802.11n HT20	52	5260	MCS0	11.50	11.44
		56	5280		11.50	11.03
		60	5300		11.50	11.12
		64	5320		11.50	11.43
	802.11n HT40	54	5270	MCS0	10.50	10.42
		62	5310		10.50	10.14
	802.11ac VHT20	52	5260	MCS0	12.50	12.07
		56	5280		12.50	12.11
		60	5300		12.50	12.18
		64	5320		12.50	12.40
	802.11ac VHT40	54	5270	MCS0	11.50	11.00
		62	5310		11.50	11.13
	802.11ac VHT80	58	5290	MCS0	11.50	11.26

Note:
1) The Average conducted power of WiFi 5.3G is measured with RMS detector.
2) The tested channels are marks in bold.

4. Conducted power measurement results of WiFi 5.6G

Full Power

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G	802.11a	100	5500	6	19.00	18.84
		104	5520		19.00	18.78
		108	5540		19.00	18.82
		112	5560		19.00	**18.84**
		116	5580		19.00	**18.87**
		132	5660		19.00	18.79
		136	5680		19.00	18.71
		140	5700		19.00	**18.90**
	802.11n HT20	100	5500	MCS0	18.00	17.90
		104	5520		18.00	17.91
		108	5540		18.00	17.94
		112	5560		18.00	17.90
		116	5580		18.00	17.89
		132	5660		18.00	17.66
		136	5680		18.00	17.68
		140	5700		18.00	17.81
	802.11n HT40	102	5510	MCS0	17.00	16.82
		110	5550		17.00	16.84
		118	5590		17.00	16.83
		126	5630		17.00	16.85
		134	5670		17.00	16.43
	802.11ac VHT20	100	5500	MCS0	19.00	18.57
		104	5520		19.00	18.56
		108	5540		19.00	18.55
		112	5560		19.00	18.50
		116	5580		19.00	18.52
		132	5660		19.00	18.62
		136	5680		19.00	18.63
		140	5700		19.00	18.78
	802.11ac VHT40	102	5510	MCS0	18.00	17.71
		110	5550		18.00	17.67
		118	5590		18.00	17.70
		126	5630		18.00	17.69
		134	5670		18.00	17.81
	802.11ac VHT80	106	5530	MCS0	18.00	17.75
		122	5610		18.00	17.76

Receiver on

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G	802.11a	100	5500	6	14.50	14.23
		104	5520		14.50	**14.35**
		108	5540		14.50	**14.39**
		112	5560		14.50	**14.41**
		116	5580		14.50	14.13
		132	5660		14.50	14.06
		136	5680		14.50	14.05
		140	5700		14.50	14.10
	802.11n HT20	100	5500	MCS0	13.50	13.46
		104	5520		13.50	13.43
		108	5540		13.50	13.07
		112	5560		13.50	13.47
		116	5580		13.50	13.09
		132	5660		13.50	13.15
		136	5680		13.50	13.08
		140	5700		13.50	13.25
	802.11n HT40	102	5510	MCS0	12.50	12.24
		110	5550		12.50	12.34
		118	5590		12.50	12.41
		126	5630		12.50	12.36
		134	5670		12.50	12.39
	802.11ac VHT20	100	5500	MCS0	14.50	14.12
		104	5520		14.50	14.16
		108	5540		14.50	14.24
		112	5560		14.50	14.21
		116	5580		14.50	14.30
		132	5660		14.50	14.42
		136	5680		14.50	14.37
		140	5700		14.50	14.45
	802.11ac VHT40	102	5510	MCS0	13.50	13.18
		110	5550		13.50	13.24
		118	5590		13.50	13.30
		126	5630		13.50	13.34
		134	5670		13.50	13.36
	802.11ac VHT80	106	5530	MCS0	13.50	13.33
		122	5610		13.50	13.41

Receiver off

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.6G	802.11a	100	5500	6	12.50	12.12
		104	5520		12.50	12.15
		108	5540		12.50	12.17
		112	5560		12.50	**12.20**
		116	5580		12.50	**12.21**
		132	5660		12.50	12.19
		136	5680		12.50	12.16
		140	5700		12.50	**12.42**
	802.11n HT20	100	5500	MCS0	11.50	11.44
		104	5520		11.50	11.05
		108	5540		11.50	11.01
		112	5560		11.50	11.03
		116	5580		11.50	11.05
		132	5660		11.50	11.05
		136	5680		11.50	11.04
		140	5700		11.50	11.27
	802.11n HT40	102	5510	MCS0	10.50	10.38
		110	5550		10.50	10.42
		118	5590		10.50	10.07
		126	5630		10.50	10.03
		134	5670		10.50	10.11
	802.11ac VHT20	100	5500	MCS0	12.50	11.96
		104	5520		12.50	12.00
		108	5540		12.50	12.02
		112	5560		12.50	12.06
		116	5580		12.50	12.05
		132	5660		12.50	12.09
		136	5680		12.50	12.10
		140	5700		12.50	12.28
	802.11ac VHT40	102	5510	MCS0	11.50	11.36
		110	5550		11.50	11.39
		118	5590		11.50	11.42
		126	5630		11.50	11.36
		134	5670		11.50	11.40
	802.11ac VHT80	106	5530	MCS0	11.50	11.47
		122	5610		11.50	11.45

Note:
1) The Average conducted power of WiFi 5.6G is measured with RMS detector.
2) The tested channels are marks in bold.

5. Conducted power measurement results of WiFi 5.8G

Full Power

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G	802.11a	149	5745	6	16.50	16.09
		153	5765		16.50	16.07
		157	5785		16.50	16.09
		161	5805		16.50	16.31
		165	5825		16.50	16.02
	802.11n HT20	149	5745	MCS0	16.50	16.01
		153	5765		16.50	16.02
		157	5785		16.50	15.99
		161	5805		16.50	16.23
		165	5825		16.50	16.41
	802.11n HT40	151	5755	MCS0	16.50	16.16
		159	5795		16.50	16.38
	802.11ac VHT20	149	5745	MCS0	16.50	16.02
		153	5765		16.50	15.99
		157	5785		16.50	16.00
		161	5805		16.50	16.24
		165	5825		16.50	16.39
	802.11ac VHT40	151	5755	MCS0	16.50	16.18
		159	5795		16.50	15.98
	802.11ac VHT80	155	5775	MCS0	16.50	**16.24**

Receiver on

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G	802.11a	149	5745	6	12.00	11.79
		153	5765		12.00	11.76
		157	5785		12.00	11.80
		161	5805		12.00	11.67
		165	5825		12.00	11.77
	802.11n HT20	149	5745	MCS0	12.00	11.73
		153	5765		12.00	11.70
		157	5785		12.00	11.62
		161	5805		12.00	11.49
		165	5825		12.00	11.63
	802.11n HT40	151	5755	MCS0	12.00	11.67
		159	5795		12.00	11.46
	802.11ac VHT20	149	5745	MCS0	12.00	11.76
		153	5765		12.00	11.72
		157	5785		12.00	11.68
		161	5805		12.00	11.53
		165	5825		12.00	11.64
	802.11ac VHT40	151	5755	MCS0	12.00	11.75
		159	5795		12.00	11.54
	802.11ac VHT80	155	5775	MCS0	12.00	**11.73**

Receiver off

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
5.8G	802.11a	149	5745	6	10.00	9.48
		153	5765		10.00	9.52
		157	5785		10.00	9.47
		161	5805		10.00	9.50
		165	5825		10.00	9.48
	802.11n HT20	149	5745	MCS0	10.00	9.87
		153	5765		10.00	9.80
		157	5785		10.00	9.83
		161	5805		10.00	9.86
		165	5825		10.00	9.79
	802.11n HT40	151	5755	MCS0	10.00	9.73
		159	5795		10.00	9.61
	802.11ac VHT20	149	5745	MCS0	10.00	9.84
		153	5765		10.00	9.82
		157	5785		10.00	9.86
		161	5805		10.00	9.83
		165	5825		10.00	9.79
	802.11ac VHT40	151	5755	MCS0	10.00	9.68
		159	5795		10.00	9.59
	802.11ac VHT80	155	5775	MCS0	10.00	**9.84**

Note:
1) The Average conducted power of WiFi 5.8G is measured with RMS detector.
2) The tested channels are marks in bold.
3) The WiFi Antenna simultaneous with 2G&3G&4G receiver on/off power of WiFi 5.8G are the same.

7.2 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 > ½ 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 ≥ 0.8W/kg; if the deviation among the repeated measurement is ≤ 20%, and the measured SAR < 1.45W/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 ≤ ¼ 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.

7.2.1 SAR MEASUREMENT RESULT OF HEAD

1. Head SAR test results of GSM

Test No.	Band	Mode	Channel	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
G01	GSM 850	GSM	190	Right Cheek	Main	1	33	31.8	0.04	**0.106**	**0.082**	**0.140**
G02	GSM 850	GSM	190	Right Tilted	Main	1	33	31.8	-0.03	0.072	0.050	0.095
G03	GSM 850	GSM	190	Left Cheek	Main	1	33	31.8	-0.19	0.102	0.070	0.134
G04	GSM 850	GSM	190	Left Tilted	Main	1	33	31.8	0.07	0.057	0.040	0.075
G05	GSM 850	GSM	190	Right Cheek	Main	2	33	31.8	0.07	0.099	0.074	0.130
G06	GSM 850	GSM	190	Right Cheek	Main	3	33	31.8	-0.05	0.095	0.072	0.126
G07	GSM 850	GSM	190	Right Cheek	Main	4	33	31.8	0.04	0.094	0.075	0.124
G08	GSM 850	GSM	190	Right Cheek	Main	5	33	31.8	0.12	0.100	0.078	0.132
G10	GSM 850	GSM	190	Right Cheek	Second	1	33	31.85	0.06	0.602	0.379	0.785
G11	GSM 850	GSM	190	Right Tilted	Second	1	33	31.85	0.02	0.382	0.235	0.498
G12	GSM 850	GSM	190	Left Cheek	Second	1	33	31.85	0.03	0.428	0.284	0.558
G13	GSM 850	GSM	190	Left Tilted	Second	1	33	31.85	0.04	0.349	0.213	0.455
G14	GSM 850	GSM	190	Right Cheek	Second	2	33	31.85	0.08	0.599	0.301	0.781
G15	GSM 850	GSM	190	Right Cheek	Second	3	33	31.85	-0.03	**0.603**	**0.378**	**0.786**
G16	GSM 850	GSM	190	Right Cheek	Second	4	33	31.85	-0.05	0.588	0.299	0.766
G17	GSM 850	GSM	190	Right Cheek	Second	5	33	31.85	-0.01	0.601	0.334	0.783
G19	GSM 1900	GSM	661	Right Cheek	Main	1	26	25.89	0	0.002	0.001	<0.001
G20	GSM 1900	GSM	661	Right Tilted	Main	1	26	25.89	0	<0.001	<0.001	<0.001
G21	GSM 1900	GSM	661	Left Cheek	Main	1	26	25.89	0	**0.003**	**0.001**	**0.003**
G22	GSM 1900	GSM	661	Left Tilted	Main	1	26	25.89	0.08	<0.001	<0.001	<0.001
G23	GSM 1900	GSM	661	Left Cheek	Main	2	26	25.89	0	<0.001	<0.001	<0.001
G24	GSM 1900	GSM	661	Left Cheek	Main	3	26	25.89	0.04	0.002	0.001	0.002
G25	GSM 1900	GSM	661	Left Cheek	Main	4	26	25.89	0.03	0.001	0.001	0.001
G26	GSM 1900	GSM	661	Left Cheek	Main	5	26	25.89	0.06	0.001	0.001	0.001
G28	GSM 1900	GSM	661	Right Cheek	Second	1	28	26.9	0.05	0.010	0.004	0.013
G29	GSM 1900	GSM	661	Right Tilted	Second	1	28	26.9	0.03	0.010	0.004	0.013
G30	GSM 1900	GSM	661	Left Cheek	Second	1	28	26.9	0.06	0.074	0.037	0.095
G31	GSM 1900	GSM	661	Left Tilted	Second	1	28	26.9	0.02	0.070	0.042	0.090
G32	GSM 1900	GSM	661	Left Cheek	Second	2	28	26.9	0.1	0.070	0.037	0.090
G33	GSM 1900	GSM	661	Left Cheek	Second	3	28	26.9	0.12	**0.076**	**0.039**	**0.098**
G34	GSM 1900	GSM	661	Left Cheek	Second	4	28	26.9	0.02	0.069	0.038	0.089
G35	GSM 1900	GSM	661	Left Cheek	Second	5	28	26.9	0.09	0.074	0.334	0.095

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

2. Head SAR test results of UMTS

Test No.	Band	Mode	Channel	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
U01	UMTS B2	RMC12.2K	9400	Right Cheek	Main	1	23.5	22.82	-0.05	0.097	0.064	0.114
U02	UMTS B2	RMC12.2K	9400	Right Tilted	Main	1	23.5	22.82	0.04	0.063	0.040	0.074
U03	UMTS B2	RMC12.2K	9400	Left Cheek	Main	1	23.5	22.82	-0.02	0.080	0.052	0.093
U04	UMTS B2	RMC12.2K	9400	Left Tilted	Main	1	23.5	22.82	0.17	0.053	0.034	0.062
U05	UMTS B2	RMC12.2K	9400	Right Cheek	Main	2	23.5	22.82	0.06	0.091	0.031	0.106
U06	UMTS B2	RMC12.2K	9400	Right Cheek	Main	3	23.5	22.82	0.01	0.090	0.042	0.105
U07	UMTS B2	RMC12.2K	9400	Right Cheek	Main	4	23.5	22.82	0.04	**0.099**	**0.065**	**0.115**
U08	UMTS B2	RMC12.2K	9400	Right Cheek	Main	5	23.5	22.82	-0.19	0.089	0.055	0.104
U10	UMTS B2	RMC12.2K	9400	Right Cheek	Second	1	17.5	17.15	0.07	0.570	0.289	0.618
U11	UMTS B2	RMC12.2K	9400	Right Tilted	Second	1	17.5	17.15	-0.05	0.797	0.361	0.864
U12	UMTS B2	RMC12.2K	9400	Left Cheek	Second	1	17.5	17.15	0.11	0.352	0.200	0.382
U13	UMTS B2	RMC12.2K	9400	Left Tilted	Second	1	17.5	17.15	0.02	0.414	0.240	0.449
U14	UMTS B2	RMC12.2K	9262	Right Tilted	Second	1	17.5	17.26	0.05	0.745	0.340	0.787
U15	UMTS B2	RMC12.2K	9538	Right Tilted	Second	1	17.5	17.39	0.05	0.901	0.409	0.924
U16	UMTS B2	RMC12.2K	9538	Right Tilted	Second	2	17.5	17.39	-0.07	0.890	0.401	0.913
U17	UMTS B2	RMC12.2K	9538	Right Tilted	Second	3	17.5	17.39	0.11	0.879	0.389	0.902
U18	UMTS B2	RMC12.2K	9538	Right Tilted	Second	4	17.5	17.39	0.03	**0.905**	**0.410**	**0.928**
U19	UMTS B2	RMC12.2K	9538	Right Tilted	Second	5	17.5	17.39	0.09	0.896	0.358	0.919
U20	UMTS B2	RMC12.2K	9538	Right Tilted (Repeated)	Second	4	17.5	17.39	-0.12	0.902	0.411	0.925
U21	UMTS B4	RMC12.2K	1413	Right Cheek	Main	1	23.5	22.86	0.08	0.049	0.034	0.057
U22	UMTS B4	RMC12.2K	1413	Right Tilted	Main	1	23.5	22.86	-0.04	0.046	0.030	0.053
U23	UMTS B4	RMC12.2K	1413	Left Cheek	Main	1	23.5	22.86	0	0.085	0.053	0.098
U24	UMTS B4	RMC12.2K	1413	Left Tilted	Main	1	23.5	22.86	-0.12	0.029	0.018	0.034
U25	UMTS B4	RMC12.2K	1413	Left Cheek	Main	2	23.5	22.86	0.06	**0.086**	**0.054**	**0.099**
U26	UMTS B4	RMC12.2K	1413	Left Cheek	Main	3	23.5	22.86	-0.11	0.083	0.051	0.096
U27	UMTS B4	RMC12.2K	1413	Left Cheek	Main	4	23.5	22.86	-0.06	0.079	0.049	0.091
U28	UMTS B4	RMC12.2K	1413	Left Cheek	Main	5	23.5	22.86	0.02	0.084	0.052	0.097
U30	UMTS B4	RMC12.2K	1413	Right Cheek	Second	1	19	18.96	0.03	0.460	0.237	0.464
U31	UMTS B4	RMC12.2K	1413	Right Tilted	Second	1	19	18.96	0.05	**0.729**	**0.335**	**0.736**
U32	UMTS B4	RMC12.2K	1413	Left Cheek	Second	1	19	18.96	-0.04	0.262	0.152	0.264
U33	UMTS B4	RMC12.2K	1413	Left Tilted	Second	1	19	18.96	0.17	0.406	0.230	0.410
U34	UMTS B4	RMC12.2K	1312	Right Tilted	Second	1	19	18.92	-0.08	0.613	0.285	0.624
U35	UMTS B4	RMC12.2K	1513	Right Tilted	Second	1	19	18.76	0.02	0.669	0.316	0.707
U36	UMTS B4	RMC12.2K	1413	Right Tilted	Second	2	19	18.96	0.11	0.713	0.312	0.720
U37	UMTS B4	RMC12.2K	1413	Right Tilted	Second	3	19	18.96	-0.03	0.724	0.332	0.731
U38	UMTS B4	RMC12.2K	1413	Right Tilted	Second	4	19	18.96	0.09	0.709	0.321	0.716
U39	UMTS B4	RMC12.2K	1413	Right Tilted	Second	5	19	18.96	-0.07	0.701	0.301	0.707

Test No.	Band	Mode	Channel	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
U41	UMTS B5	RMC12.2K	4182	Right Cheek	Main	1	24	23.19	0.02	0.131	0.105	0.158
U42	UMTS B5	RMC12.2K	4182	Right Tilted	Main	1	24	23.19	0.09	0.066	0.046	0.079
U43	UMTS B5	RMC12.2K	4182	Left Cheek	Main	1	24	23.19	0.05	**0.154**	**0.121**	**0.186**
U44	UMTS B5	RMC12.2K	4182	Left Tilted	Main	1	24	23.19	0.08	0.071	0.050	0.086
U45	UMTS B5	RMC12.2K	4182	Left Cheek	Main	2	24	23.19	-0.03	0.147	0.114	0.177
U46	UMTS B5	RMC12.2K	4182	Left Cheek	Main	3	24	23.19	-0.08	0.126	0.101	0.152
U47	UMTS B5	RMC12.2K	4182	Left Cheek	Main	4	24	23.19	-0.01	0.142	0.117	0.171
U48	UMTS B5	RMC12.2K	4182	Left Cheek	Main	5	24	23.19	0.12	0.138	0.112	0.166
U50	UMTS B5	RMC12.2K	4182	Right Cheek	Second	1	24.5	23.3	-0.02	0.645	0.372	0.850
U51	UMTS B5	RMC12.2K	4182	Right Tilted	Second	1	24.5	23.3	0.06	0.373	0.200	0.492
U52	UMTS B5	RMC12.2K	4182	Left Cheek	Second	1	24.5	23.3	0.01	0.337	0.202	0.444
U53	UMTS B5	RMC12.2K	4182	Left Tilted	Second	1	24.5	23.3	-0.02	0.289	0.160	0.381
U54	UMTS B5	RMC12.2K	4132	Right Cheek	Second	1	24.5	23.21	0.04	0.446	0.250	0.600
U55	UMTS B5	RMC12.2K	4233	Right Cheek	Second	1	24.5	23.36	-0.07	0.743	0.417	0.966
U56	UMTS B5	RMC12.2K	4233	Right Cheek	Second	2	24.5	23.36	0.1	0.751	0.412	0.976
U57	UMTS B5	RMC12.2K	4233	Right Cheek	Second	3	24.5	23.36	0.03	0.810	0.416	1.053
U58	UMTS B5	RMC12.2K	4233	Right Cheek	Second	4	24.5	23.36	-0.08	**0.821**	**0.465**	**1.067**
U59	UMTS B5	RMC12.2K	4233	Right Cheek	Second	5	24.5	23.36	0.01	0.799	0.432	1.039
U49	UMTS B5	RMC12.2K	4233	Right Cheek (Repeated)	Second	4	24.5	23.36	-0.03	0.815	0.461	1.060

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

3. Head SAR test results of LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L01	LTE B2	QPSK20M	19100	1	0	Right Cheek	Main	1	23	22.89	0.08	**0.025**	**0.016**	**0.026**
L02	LTE B2	QPSK20M	19100	1	0	Right Tilted	Main	1	23	22.89	-0.04	0.020	0.013	0.020
L03	LTE B2	QPSK20M	19100	1	0	Left Cheek	Main	1	23	22.89	0.02	0.022	0.014	0.022
L04	LTE B2	QPSK20M	19100	1	0	Left Tilted	Main	1	23	22.89	-0.16	0.013	0.009	0.014
L05	LTE B2	QPSK20M	19100	50	25	Right Cheek	Main	1	23	22.61	0.01	0.023	0.013	0.025
L06	LTE B2	QPSK20M	19100	50	25	Right Tilted	Main	1	23	22.61	0.02	0.018	0.012	0.019
L07	LTE B2	QPSK20M	19100	50	25	Left Cheek	Main	1	23	22.61	0	0.015	0.009	0.016
L08	LTE B2	QPSK20M	19100	50	25	Left Tilted	Main	1	23	22.61	-0.08	0.013	0.002	0.015
L09	LTE B2	QPSK20M	19100	1	0	Right Cheek	Main	2	23	22.89	0.04	0.025	0.015	0.025
L10	LTE B2	QPSK20M	19100	1	0	Right Cheek	Main	3	23	22.89	0.04	0.024	0.017	0.025
L11	LTE B2	QPSK20M	19100	1	0	Right Cheek	Main	4	23	22.89	0.02	0.025	0.017	0.025
L12	LTE B2	QPSK20M	19100	1	0	Right Cheek	Main	5	23	22.89	0.01	0.025	0.017	0.025
L14	LTE B2	QPSK20M	19100	1	50	Right Cheek	Second	1	18	17.92	0.01	0.752	0.333	0.767
L15	LTE B2	QPSK20M	19100	1	50	Right Tilted	Second	1	18	17.92	0.05	0.736	0.332	0.751
L16	LTE B2	QPSK20M	19100	1	50	Left Cheek	Second	1	18	17.92	0.06	0.433	0.217	0.442
L17	LTE B2	QPSK20M	19100	1	50	Left Tilted	Second	1	18	17.92	0.08	0.548	0.254	0.559
L18	LTE B2	QPSK20M	19100	50	0	Right Cheek	Second	1	18	17.35	0.02	0.753	0.333	0.875
L19	LTE B2	QPSK20M	19100	50	0	Right Tilted	Second	1	18	17.35	0.01	0.766	0.347	0.891
L20	LTE B2	QPSK20M	19100	50	0	Left Cheek	Second	1	18	17.35	-0.04	0.443	0.223	0.515
L21	LTE B2	QPSK20M	19100	50	0	Left Tilted	Second	1	18	17.35	0.06	0.570	0.262	0.663
L22	LTE B2	QPSK20M	18900	50	25	Right Cheek	Second	1	18	17.19	0.04	0.551	0.265	0.664
L23	LTE B2	QPSK20M	18900	50	25	Right Tilted	Second	1	18	17.19	0.08	0.716	0.325	0.863
L24	LTE B2	QPSK20M	18700	50	25	Right Cheek	Second	1	18	17.16	0.06	0.523	0.251	0.634
L25	LTE B2	QPSK20M	18700	50	25	Right Tilted	Second	1	18	17.16	0.05	0.683	0.310	0.828
L26	LTE B2	QPSK20M	19100	100	0	Right Cheek	Second	1	18	17.23	0.01	0.779	0.349	0.931
L27	LTE B2	QPSK20M	19100	100	0	Right Tilted	Second	1	18	17.23	0.03	**0.781**	**0.354**	**0.934**
L28	LTE B2	QPSK20M	19100	100	0	Right Tilted	Second	2	18	17.23	0.01	0.719	0.351	0.859
L29	LTE B2	QPSK20M	19100	100	0	Right Tilted	Second	3	18	17.23	0.06	0.721	0.321	0.862
L30	LTE B2	QPSK20M	19100	100	0	Right Tilted	Second	4	18	17.23	0.12	0.771	0.360	0.922
L31	LTE B2	QPSK20M	19100	100	0	Right Tilted	Second	5	18	17.23	0.01	0.710	0.332	0.849
L32	LTE B2	QPSK20M	19100	100	0	Right Tilted (Repeated)	Second	1	18	17.23	0.01	0.776	0.359	0.928

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L33	LTE B4	QPSK20M	20050	1	99	Right Cheek	Main	1	24	23.78	0.02	0.075	0.048	0.078
L34	LTE B4	QPSK20M	20050	1	99	Right Tilted	Main	1	24	23.78	0	0.068	0.042	0.072
L35	LTE B4	QPSK20M	20050	1	99	Left Cheek	Main	1	24	23.78	0.09	**0.104**	**0.063**	**0.109**
L36	LTE B4	QPSK20M	20050	1	99	Left Tilted	Main	1	24	23.78	0.14	0.044	0.027	0.046
L37	LTE B4	QPSK20M	20050	50	50	Right Cheek	Main	1	23	22.43	-0.11	0.057	0.036	0.065
L38	LTE B4	QPSK20M	20050	50	50	Right Tilted	Main	1	23	22.43	0.02	0.052	0.033	0.059
L39	LTE B4	QPSK20M	20050	50	50	Left Cheek	Main	1	23	22.43	-0.01	0.092	0.055	0.104
L40	LTE B4	QPSK20M	20050	50	50	Left Tilted	Main	1	23	22.43	0.06	0.058	0.034	0.066
L41	LTE B4	QPSK20M	20050	1	99	Left Cheek	Main	2	24	23.78	0.04	0.100	0.061	0.105
L42	LTE B4	QPSK20M	20050	1	99	Left Cheek	Main	3	24	23.78	-0.18	0.091	0.058	0.096
L43	LTE B4	QPSK20M	20050	1	99	Left Cheek	Main	4	24	23.78	-0.1	0.093	0.057	0.097
L44	LTE B4	QPSK20M	20050	1	99	Left Cheek	Main	5	24	23.78	0	0.095	0.058	0.100
L46	LTE B4	QPSK20M	20050	1	99	Right Cheek	Second	1	21	20.90	0	0.712	0.336	0.729
L47	LTE B4	QPSK20M	20050	1	99	Right Tilted	Second	1	21	20.90	-0.08	0.929	0.424	0.951
L48	LTE B4	QPSK20M	20050	1	99	Left Cheek	Second	1	21	20.90	-0.04	0.532	0.278	0.545
L49	LTE B4	QPSK20M	20050	1	99	Left Tilted	Second	1	21	20.90	0.01	0.724	0.349	0.741
L50	LTE B4	QPSK20M	20050	50	50	Right Cheek	Second	1	21	20.46	-0.03	0.706	0.333	0.800
L51	LTE B4	QPSK20M	20050	50	50	Right Tilted	Second	1	21	20.46	0	0.928	0.422	1.051
L52	LTE B4	QPSK20M	20050	50	50	Left Cheek	Second	1	21	20.46	0.03	0.489	0.255	0.554
L53	LTE B4	QPSK20M	20050	50	50	Left Tilted	Second	1	21	20.46	0.05	0.688	0.329	0.779
L54	LTE B4	QPSK20M	20175	1	99	Right Tilted	Second	1	21	20.76	0.02	0.918	0.377	0.970
L55	LTE B4	QPSK20M	20300	1	99	Right Tilted	Second	1	21	20.77	0.01	0.962	0.388	1.014
L56	LTE B4	QPSK20M	20300	50	0	Right Cheek	Second	1	21	20.45	0.05	0.683	0.286	0.776
L57	LTE B4	QPSK20M	20175	50	50	Right Cheek	Second	1	21	20.43	0.01	0.674	0.283	0.769
L58	LTE B4	QPSK20M	20300	50	0	Right Tilted	Second	1	21	20.45	0.05	0.925	0.350	1.050
L59	LTE B4	QPSK20M	20175	50	50	Right Tilted	Second	1	21	20.43	0.02	0.900	0.365	1.027
L60	LTE B4	QPSK20M	20300	100	0	Right Cheek	Second	1	21	20.68	-0.06	0.958	0.412	1.032
L61	LTE B4	QPSK20M	20300	100	0	Right Tilted	Second	1	21	20.68	0.01	**0.982**	**0.430**	**1.058**
L62	LTE B4	QPSK20M	20300	100	0	Right Tilted	Second	2	21	20.68	0.02	0.927	0.391	0.998
L63	LTE B4	QPSK20M	20300	100	0	Right Tilted	Second	3	21	20.68	0.05	0.945	0.407	1.018
L64	LTE B4	QPSK20M	20300	100	0	Right Tilted	Second	4	21	20.68	-0.03	0.909	0.399	0.979
L65	LTE B4	QPSK20M	20300	100	0	Right Tilted	Second	5	21	20.68	0.06	0.927	0.364	0.998
L66	LTE B4	QPSK20M	20300	100	0	Right Tilted (Repeated)	Second	1	21	20.68	0.06	0.976	0.423	1.051

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L68	LTE B5	QPSK10M	20600	1	24	Right Cheek	Main	1	24	23.93	0	0.155	0.123	0.157
L69	LTE B5	QPSK10M	20600	1	24	Right Tilted	Main	1	24	23.93	0.04	0.070	0.069	0.071
L70	LTE B5	QPSK10M	20600	1	24	Left Cheek	Main	1	24	23.93	-0.06	0.158	0.126	0.161
L71	LTE B5	QPSK10M	20600	1	24	Left Tilted	Main	1	24	23.93	-0.16	0.096	0.086	0.097
L72	LTE B5	QPSK10M	20525	25	25	Right Cheek	Main	1	23	22.81	0.08	0.093	0.086	0.097
L73	LTE B5	QPSK10M	20525	25	25	Right Tilted	Main	1	23	22.81	-0.02	0.048	0.046	0.050
L74	LTE B5	QPSK10M	20525	25	25	Left Cheek	Main	1	23	22.81	0.04	0.111	0.096	0.116
L75	LTE B5	QPSK10M	20525	25	25	Left Tilted	Main	1	23	22.81	0.03	0.066	0.060	0.069
L76	LTE B5	QPSK10M	20600	1	24	Left Cheek	Main	2	24	23.93	-0.15	0.147	0.127	0.149
L77	LTE B5	QPSK10M	20600	1	24	Left Cheek	Main	3	24	23.93	0.16	**0.159**	**0.126**	**0.162**
L78	LTE B5	QPSK10M	20600	1	24	Left Cheek	Main	4	24	23.93	0.01	0.142	0.130	0.144
L79	LTE B5	QPSK10M	20600	1	24	Left Cheek	Main	5	24	23.93	0.08	0.147	0.127	0.149
L85	LTE B5	QPSK10M	20525	1	49	Right Cheek	Second	1	24	23.94	0.04	0.551	0.328	0.559
L86	LTE B5	QPSK10M	20525	1	49	Right Tilted	Second	1	24	23.94	0.01	0.415	0.231	0.421
L87	LTE B5	QPSK10M	20525	1	49	Left Cheek	Second	1	24	23.94	0.06	0.400	0.248	0.406
L88	LTE B5	QPSK10M	20525	1	49	Left Tilted	Second	1	24	23.94	0.05	0.350	0.203	0.355
L89	LTE B5	QPSK10M	20600	25	25	Right Cheek	Second	1	23	22.77	0.08	0.493	0.293	0.520
L90	LTE B5	QPSK10M	20600	25	25	Right Tilted	Second	1	23	22.77	-0.04	0.365	0.204	0.385
L91	LTE B5	QPSK10M	20600	25	25	Left Cheek	Second	1	23	22.77	-0.09	0.351	0.219	0.370
L92	LTE B5	QPSK10M	20600	25	25	Left Tilted	Second	1	23	22.77	0.01	0.303	0.176	0.319
L96	LTE B5	QPSK10M	20525	1	49	Right Cheek	Second	2	24	23.94	-0.09	0.459	0.321	0.466
L97	LTE B5	QPSK10M	20525	1	49	Right Cheek	Second	3	24	23.94	-0.08	**0.553**	**0.329**	**0.561**
L98	LTE B5	QPSK10M	20525	1	49	Right Cheek	Second	4	24	23.94	0.11	0.501	0.312	0.508
L99	LTE B5	QPSK10M	20525	1	49	Right Cheek	Second	5	24	23.94	0.04	0.489	0.299	0.496

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L101	LTE B7	QPSK20M	21350	1	50	Right Cheek	Main	1	23.8	22.94	-0.09	0.045	0.023	0.055
L102	LTE B7	QPSK20M	21350	1	50	Right Tilted	Main	1	23.8	22.94	0.05	0.066	0.032	0.080
L103	LTE B7	QPSK20M	21350	1	50	Left Cheek	Main	1	23.8	22.94	-0.13	0.066	0.037	0.080
L104	LTE B7	QPSK20M	21350	1	50	Left Tilted	Main	1	23.8	22.94	-0.09	**0.075**	**0.035**	**0.091**
L105	LTE B7	QPSK20M	20850	50	25	Right Cheek	Main	1	22.8	22.41	0.04	0.062	0.034	0.068
L106	LTE B7	QPSK20M	20850	50	25	Right Tilted	Main	1	22.8	22.41	0.08	0.070	0.035	0.077
L107	LTE B7	QPSK20M	20850	50	25	Left Cheek	Main	1	22.8	22.41	0.12	0.069	0.035	0.075
L108	LTE B7	QPSK20M	20850	50	25	Left Tilted	Main	1	22.8	22.41	0.04	0.081	0.041	0.088
L109	LTE B7	QPSK20M	21350	1	50	Left Tilted	Main	2	23.8	22.94	0.1	0.069	0.036	0.084
L110	LTE B7	QPSK20M	21350	1	50	Left Tilted	Main	3	23.8	22.94	-0.07	0.073	0.035	0.089
L111	LTE B7	QPSK20M	21350	1	50	Left Tilted	Main	4	23.8	22.94	-0.02	0.072	0.034	0.088
L112	LTE B7	QPSK20M	21350	1	50	Left Tilted	Main	5	23.8	22.94	-0.04	0.074	0.034	0.090
L114	LTE B7	QPSK20M	20850	1	0	Right Cheek	Second	1	15.5	15.11	-0.02	0.915	0.376	1.002
L115	LTE B7	QPSK20M	20850	1	0	Right Tilted	Second	1	15.5	15.11	-0.01	0.901	0.385	0.986
L116	LTE B7	QPSK20M	20850	1	0	Left Cheek	Second	1	15.5	15.11	0.02	0.509	0.239	0.557
L117	LTE B7	QPSK20M	20850	1	0	Left Tilted	Second	1	15.5	15.11	0.06	0.729	0.353	0.798
L118	LTE B7	QPSK20M	20850	50	0	Right Cheek	Second	1	15.5	15.09	0.11	0.958	0.386	1.052
L119	LTE B7	QPSK20M	20850	50	0	Right Tilted	Second	1	15.5	15.09	0.04	0.924	0.405	1.014
L120	LTE B7	QPSK20M	20850	50	0	Left Cheek	Second	1	15.5	15.09	0.06	0.490	0.230	0.538
L121	LTE B7	QPSK20M	20850	50	0	Left Tilted	Second	1	15.5	15.09	0.04	0.689	0.342	0.756
L122	LTE B7	QPSK20M	21350	1	0	Right Cheek	Second	1	15.5	14.66	0.08	0.779	0.351	0.945
L123	LTE B7	QPSK20M	21100	1	99	Right Cheek	Second	1	15.5	14.89	-0.02	0.562	0.260	0.646
L124	LTE B7	QPSK20M	21100	50	25	Right Cheek	Second	1	15.5	15.06	0.06	0.807	0.333	0.893
L125	LTE B7	QPSK20M	21350	50	25	Right Cheek	Second	1	15.5	14.76	-0.1	0.901	0.389	1.068
L126	LTE B7	QPSK20M	21350	1	0	Right Tilted	Second	1	15.5	14.66	0.07	0.856	0.490	1.039
L127	LTE B7	QPSK20M	21100	1	99	Right Tilted	Second	1	15.5	14.89	0.05	0.905	0.322	1.040
L128	LTE B7	QPSK20M	21100	50	25	Right Tilted	Second	1	15.5	15.06	0.07	**0.970**	**0.441**	**1.073**
L129	LTE B7	QPSK20M	21350	50	25	Right Tilted	Second	1	15.5	14.76	0.02	0.894	0.356	1.060
L130	LTE B7	QPSK20M	20850	100	0	Right Cheek	Second	1	15.5	15.11	-0.05	0.905	0.387	0.991
L131	LTE B7	QPSK20M	20850	100	0	Right Tilted	Second	1	15.5	15.11	0	0.825	0.482	0.903
L132	LTE B7	QPSK20M	21100	50	25	Right Tilted	Second	2	15.5	15.06	0.01	0.814	0.432	0.901
L133	LTE B7	QPSK20M	21100	50	25	Right Tilted	Second	3	15.5	15.06	0.06	0.789	0.398	0.873
L134	LTE B7	QPSK20M	21100	50	25	Right Tilted	Second	4	15.5	15.06	0.12	0.815	0.201	0.902
L135	LTE B7	QPSK20M	21100	50	25	Right Tilted	Second	5	15.5	15.06	-0.02	0.803	0.234	0.889
L135	LTE B7	QPSK20M	21100	50	25	Right Tilted (Repeated)	Second	1	15.5	15.06	0.01	0.956	0.421	1.058

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L136	LTE B12	QPSK10M	23130	1	0	Right Cheek	Main	1	24	23.72	0.06	0.078	0.062	0.083
L137	LTE B12	QPSK10M	23130	1	0	Right Tilted	Main	1	24	23.72	0.01	0.052	0.041	0.056
L138	LTE B12	QPSK10M	23130	1	0	Left Cheek	Main	1	24	23.72	0.08	0.078	0.061	0.083
L139	LTE B12	QPSK10M	23130	1	0	Left Tilted	Main	1	24	23.72	0.02	0.046	0.036	0.049
L140	LTE B12	QPSK10M	23130	25	0	Right Cheek	Main	1	23	22.56	0.04	0.075	0.060	0.083
L141	LTE B12	QPSK10M	23130	25	0	Right Tilted	Main	1	23	22.56	-0.03	0.041	0.032	0.045
L142	LTE B12	QPSK10M	23130	25	0	Left Cheek	Main	1	23	22.56	0.08	0.064	0.050	0.070
L143	LTE B12	QPSK10M	23130	25	0	Left Tilted	Main	1	23	22.56	-0.09	0.037	0.029	0.041
L144	LTE B12	QPSK10M	23130	1	0	Right Cheek	Main	2	24	23.72	0.03	0.086	0.059	0.092
L145	LTE B12	QPSK10M	23130	1	0	Right Cheek	Main	3	24	23.72	-0.07	**0.104**	**0.081**	**0.111**
L146	LTE B12	QPSK10M	23130	1	0	Right Cheek	Main	4	24	23.72	-0.08	0.091	0.062	0.097
L147	LTE B12	QPSK10M	23130	1	0	Right Cheek	Main	5	24	23.72	0.01	0.084	0.058	0.090
L149	LTE B12	QPSK10M	23060	1	0	Right Cheek	Second	1	24	23.55	-0.06	0.018	0.011	0.020
L150	LTE B12	QPSK10M	23060	1	0	Right Tilted	Second	1	24	23.55	0.17	0.020	0.011	0.022
L151	LTE B12	QPSK10M	23060	1	0	Left Cheek	Second	1	24	23.55	-0.04	0.015	0.009	0.016
L152	LTE B12	QPSK10M	23060	1	0	Left Tilted	Second	1	24	23.55	0.13	0.011	0.007	0.012
L153	LTE B12	QPSK10M	23060	25	0	Right Cheek	Second	1	23	22.38	0.05	0.017	0.010	0.020
L154	LTE B12	QPSK10M	23060	25	0	Right Tilted	Second	1	23	22.38	0.05	0.015	0.008	0.018
L155	LTE B12	QPSK10M	23060	25	0	Left Cheek	Second	1	23	22.38	0.04	0.011	0.007	0.013
L156	LTE B12	QPSK10M	23060	25	0	Left Tilted	Second	1	23	22.38	0.1	0.009	0.005	0.010
L157	LTE B12	QPSK10M	23060	1	0	Right Tilted	Second	2	24	23.55	0.02	0.019	0.010	0.021
L158	LTE B12	QPSK10M	23060	1	0	Right Tilted	Second	3	24	23.55	-0.19	**0.020**	**0.011**	**0.022**
L159	LTE B12	QPSK10M	23060	1	0	Right Tilted	Second	4	24	23.55	0.07	0.020	0.010	0.022
L160	LTE B12	QPSK10M	23060	1	0	Right Tilted	Second	5	24	23.55	-0.06	0.020	0.010	0.022

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L188	LTE B26	QPSK15M	26965	1	37	Right Cheek	Main	1	24	23.19	-0.02	0.098	0.084	0.118
L189	LTE B26	QPSK15M	26965	1	37	Right Tilted	Main	1	24	23.19	0.07	0.050	0.046	0.061
L190	LTE B26	QPSK15M	26965	1	37	Left Cheek	Main	1	24	23.19	0.05	**0.114**	**0.090**	**0.137**
L191	LTE B26	QPSK15M	26965	1	37	Left Tilted	Main	1	24	23.19	0.13	0.068	0.058	0.081
L192	LTE B26	QPSK15M	26965	36	19	Right Cheek	Main	1	23	21.94	0.04	0.080	0.069	0.102
L193	LTE B26	QPSK15M	26965	36	19	Right Tilted	Main	1	23	21.94	0.02	0.020	0.013	0.026
L194	LTE B26	QPSK15M	26965	36	19	Left Cheek	Main	1	23	21.94	-0.09	0.088	0.068	0.112
L195	LTE B26	QPSK15M	26965	36	19	Left Tilted	Main	1	23	21.94	0.07	0.052	0.431	0.067
L196	LTE B26	QPSK15M	26965	1	37	Left Cheek	Main	2	24	23.19	-0.01	0.103	0.083	0.124
L197	LTE B26	QPSK15M	26965	1	37	Left Cheek	Main	3	24	23.19	0.06	0.112	0.090	0.135
L198	LTE B26	QPSK15M	26965	1	37	Left Cheek	Main	4	24	23.19	0.08	0.110	0.087	0.133
L199	LTE B26	QPSK15M	26965	1	37	Left Cheek	Main	5	24	23.19	-0.13	0.111	0.090	0.134
L201	LTE B26	QPSK15M	26865	1	37	Right Cheek	Second	1	24	22.96	-0.16	**0.301**	**0.185**	**0.383**
L202	LTE B26	QPSK15M	26865	1	37	Right Tilted	Second	1	24	22.96	0.02	0.225	0.128	0.286
L203	LTE B26	QPSK15M	26865	1	37	Left Cheek	Second	1	24	22.96	0.07	0.215	0.138	0.273
L204	LTE B26	QPSK15M	26865	1	37	Left Tilted	Second	1	24	22.96	0.05	0.177	0.106	0.225
L205	LTE B26	QPSK15M	26865	36	0	Right Cheek	Second	1	23	22.61	0.06	0.226	0.138	0.247
L206	LTE B26	QPSK15M	26865	36	0	Right Tilted	Second	1	23	22.61	0.07	0.168	0.096	0.184
L207	LTE B26	QPSK15M	26865	36	0	Left Cheek	Second	1	23	22.61	-0.01	0.162	0.104	0.177
L208	LTE B26	QPSK15M	26865	36	0	Left Tilted	Second	1	23	22.61	0.04	0.132	0.079	0.144
L209	LTE B26	QPSK15M	26865	1	37	Right Cheek	Second	2	24	22.96	0.07	0.289	0.156	0.367
L210	LTE B26	QPSK15M	26865	1	37	Right Cheek	Second	3	24	22.96	0.12	0.278	0.151	0.353
L211	LTE B26	QPSK15M	26865	1	37	Right Cheek	Second	4	24	22.96	-0.03	0.291	0.159	0.370
L212	LTE B26	QPSK15M	26865	1	37	Right Cheek	Second	5	24	22.96	0.08	0.293	0.161	0.373

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L214	LTE B38	QPSK20M	38150	1	99	Right Cheek	Main	1	24	23.39	0	0.022	0.012	0.026
L215	LTE B38	QPSK20M	38150	1	99	Right Tilted	Main	1	24	23.39	0.02	0.034	0.015	0.039
L216	LTE B38	QPSK20M	38150	1	99	Left Cheek	Main	1	24	23.39	0	0.019	0.012	0.022
L217	LTE B38	QPSK20M	38150	1	99	Left Tilted	Main	1	24	23.39	0.09	0.020	0.011	0.023
L218	LTE B38	QPSK20M	38150	50	50	Right Cheek	Main	1	23	22.80	0	0.018	0.011	0.019
L219	LTE B38	QPSK20M	38150	50	50	Right Tilted	Main	1	23	22.80	0.08	0.022	0.012	0.023
L220	LTE B38	QPSK20M	38150	50	50	Left Cheek	Main	1	23	22.80	0	0.017	0.010	0.018
L221	LTE B38	QPSK20M	38150	50	50	Left Tilted	Main	1	23	22.80	0.04	0.020	0.012	0.021
L222	LTE B38	QPSK20M	38150	1	99	Right Tilted	Main	2	24	23.39	0.01	0.039	0.020	0.045
L223	LTE B38	QPSK20M	38150	1	99	Right Tilted	Main	3	24	23.39	0.04	**0.049**	**0.022**	**0.056**
L224	LTE B38	QPSK20M	38150	1	99	Right Tilted	Main	4	24	23.39	-0.03	0.040	0.018	0.046
L225	LTE B38	QPSK20M	38150	1	99	Right Tilted	Main	5	24	23.39	-0.12	0.038	0.019	0.044
L227	LTE B38	QPSK20M	38150	1	99	Right Cheek	Second	1	18.5	18.49	0.01	0.453	0.223	0.454
L228	LTE B38	QPSK20M	38150	1	99	Right Tilted	Second	1	18.5	18.49	0.04	0.533	0.226	0.534
L229	LTE B38	QPSK20M	38150	1	99	Left Cheek	Second	1	18.5	18.49	0.05	0.141	0.072	0.141
L230	LTE B38	QPSK20M	38150	1	99	Left Tilted	Second	1	18.5	18.49	0.06	0.181	0.091	0.181
L231	LTE B38	QPSK20M	38150	50	50	Right Cheek	Second	1	18.5	17.92	0.04	0.431	0.210	0.493
L232	LTE B38	QPSK20M	38150	50	50	Right Tilted	Second	1	18.5	17.92	0.19	0.531	0.223	0.607
L233	LTE B38	QPSK20M	38150	50	50	Left Cheek	Second	1	18.5	17.92	-0.01	0.130	0.067	0.149
L234	LTE B38	QPSK20M	38150	50	50	Left Tilted	Second	1	18.5	17.92	0.02	0.174	0.087	0.199
L235	LTE B38	QPSK20M	38150	50	50	Right Tilted	Second	2	18.5	17.92	-0.09	0.599	0.237	0.685
L236	LTE B38	QPSK20M	38150	50	50	Right Tilted	Second	3	18.5	17.92	-0.03	**0.606**	**0.249**	**0.693**
L237	LTE B38	QPSK20M	38150	50	50	Right Tilted	Second	4	18.5	17.92	0.11	0.601	0.239	0.687
L238	LTE B38	QPSK20M	38150	50	50	Right Tilted	Second	5	18.5	17.92	0.09	0.578	0.189	0.661

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L240	LTE B41	QPSK20M	41140	1	99	Right Cheek	Main	1	24	23.93	0	0.017	0.008	0.017
L241	LTE B41	QPSK20M	41140	1	99	Right Tilted	Main	1	24	23.93	0.09	0.029	0.012	0.030
L242	LTE B41	QPSK20M	41140	1	99	Left Cheek	Main	1	24	23.93	0.05	0.024	0.011	0.025
L243	LTE B41	QPSK20M	41140	1	99	Left Tilted	Main	1	24	23.93	-0.17	0.017	0.007	0.018
L244	LTE B41	QPSK20M	41140	50	50	Right Cheek	Main	1	23	22.83	0.05	0.016	0.008	0.017
L245	LTE B41	QPSK20M	41140	50	50	Right Tilted	Main	1	23	22.83	0.03	0.026	0.010	0.027
L246	LTE B41	QPSK20M	41140	50	50	Left Cheek	Main	1	23	22.83	0.03	0.021	0.013	0.022
L247	LTE B41	QPSK20M	41140	50	50	Left Tilted	Main	1	23	22.83	0.05	0.022	0.009	0.023
L248	LTE B41	QPSK20M	41140	1	99	Right Tilted	Main	2	24	23.93	-0.06	0.018	0.007	0.019
L249	LTE B41	QPSK20M	41140	1	99	Right Tilted	Main	3	24	23.93	-0.11	0.016	0.008	0.016
L250	LTE B41	QPSK20M	41140	1	99	Right Tilted	Main	4	24	23.93	0.01	**0.035**	**0.016**	**0.036**
L251	LTE B41	QPSK20M	41140	1	99	Right Tilted	Main	5	24	23.93	0.09	0.163	0.013	0.166
L259	LTE B41	QPSK20M	40140	1	99	Right Cheek	Second	1	16	15.90	-0.02	0.459	0.208	0.469
L260	LTE B41	QPSK20M	40140	1	99	Right Tilted	Second	1	16	15.90	0.04	**0.469**	**0.190**	**0.479**
L261	LTE B41	QPSK20M	40140	1	99	Left Cheek	Second	1	16	15.90	0.09	0.147	0.076	0.150
L262	LTE B41	QPSK20M	40140	1	99	Left Tilted	Second	1	16	15.90	-0.12	0.177	0.079	0.181
L263	LTE B41	QPSK20M	41140	50	50	Right Cheek	Second	1	16	15.40	0.06	0.403	0.183	0.462
L264	LTE B41	QPSK20M	41140	50	50	Right Tilted	Second	1	16	15.40	0.05	0.409	0.181	0.469
L265	LTE B41	QPSK20M	41140	50	50	Left Cheek	Second	1	16	15.40	-0.01	0.131	0.066	0.150
L266	LTE B41	QPSK20M	41140	50	50	Left Tilted	Second	1	16	15.40	0.09	0.183	0.085	0.210
L275	LTE B41	QPSK20M	40140	1	99	Right Tilted	Second	2	16	15.90	0.01	0.436	0.168	0.446
L276	LTE B41	QPSK20M	40140	1	99	Right Tilted	Second	3	16	15.90	0.06	0.415	0.159	0.424
L277	LTE B41	QPSK20M	40140	1	99	Right Tilted	Second	4	16	15.90	-0.02	0.399	0.145	0.408
L278	LTE B41	QPSK20M	40140	1	99	Right Tilted	Second	5	16	15.90	-0.07	0.446	0.163	0.456

Test No.	Band	Mode	Channel	RB	offset	Test Position	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L280	LTE B66	QPSK20M	132072	1	99	Right Cheek	Main	1	24	23.94	0.02	0.093	0.057	0.094
L281	LTE B66	QPSK20M	132072	1	99	Right Tilted	Main	1	24	23.94	0	0.062	0.038	0.063
L282	LTE B66	QPSK20M	132072	1	99	Left Cheek	Main	1	24	23.94	0.08	**0.114**	**0.069**	**0.116**
L283	LTE B66	QPSK20M	132072	1	99	Left Tilted	Main	1	24	23.94	-0.11	0.051	0.031	0.052
L284	LTE B66	QPSK20M	132572	50	50	Right Cheek	Main	1	23	22.48	0.1	0.080	0.048	0.090
L285	LTE B66	QPSK20M	132572	50	50	Right Tilted	Main	1	23	22.48	-0.05	0.055	0.033	0.062
L286	LTE B66	QPSK20M	132572	50	50	Left Cheek	Main	1	23	22.48	0	0.077	0.045	0.086
L287	LTE B66	QPSK20M	132572	50	50	Left Tilted	Main	1	23	22.48	0.05	0.052	0.032	0.059
L288	LTE B66	QPSK20M	132072	1	99	Left Cheek	Main	2	24	23.94	-0.17	0.109	0.067	0.110
L289	LTE B66	QPSK20M	132072	1	99	Left Cheek	Main	3	24	23.94	0.06	0.107	0.066	0.108
L290	LTE B66	QPSK20M	132072	1	99	Left Cheek	Main	4	24	23.94	0.04	0.109	0.068	0.110
L291	LTE B66	QPSK20M	132072	1	99	Left Cheek	Main	5	24	23.94	-0.08	0.110	0.068	0.111
L293	LTE B66	QPSK20M	132322	1	50	Right Cheek	Second	1	19	18.89	0.1	0.509	0.220	0.522
L294	LTE B66	QPSK20M	132322	1	50	Right Tilted	Second	1	19	18.89	0.05	0.545	0.247	0.559
L295	LTE B66	QPSK20M	132322	1	50	Left Cheek	Second	1	19	18.89	0.06	0.307	0.157	0.315
L296	LTE B66	QPSK20M	132322	1	50	Left Tilted	Second	1	19	18.89	0.08	0.431	0.203	0.442
L297	LTE B66	QPSK20M	132572	50	50	Right Cheek	Second	1	19	18.28	0.07	0.602	0.261	0.711
L298	LTE B66	QPSK20M	132572	50	50	Right Tilted	Second	1	19	18.28	-0.03	0.649	0.296	0.767
L299	LTE B66	QPSK20M	132572	50	50	Left Cheek	Second	1	19	18.28	0.05	0.359	0.183	0.424
L300	LTE B66	QPSK20M	132572	50	50	Left Tilted	Second	1	19	18.28	0.03	0.491	0.228	0.580
L301	LTE B66	QPSK20M	132572	50	50	Right Tilted	Second	2	19	18.28	-0.06	0.569	0.246	0.672
L302	LTE B66	QPSK20M	132572	50	50	Right Tilted	Second	3	19	18.28	0.11	0.626	0.225	0.740
L303	LTE B66	QPSK20M	132572	50	50	Right Tilted	Second	4	19	18.28	-0.09	0.594	0.221	0.702
L304	LTE B66	QPSK20M	132572	50	50	Right Tilted	Second	5	19	18.28	0.07	**0.676**	**0.303**	**0.799**

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

4. Head SAR test results of 2.4G WiFi

Test No.	Band	Channel	Test Position	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W01	802.11b	1	Right Cheek	1	1	14.5	14.46	0.04	0.123	0.063	0.124
W02	802.11b	1	Right Tilted	1	1	14.5	14.46	-0.03	0.117	0.053	0.118
W03	802.11b	1	Left Cheek	1	1	14.5	14.46	0.08	0.227	0.104	0.229
W04	802.11b	1	Left Tilted	1	1	14.5	14.46	-0.12	0.139	0.062	0.140
W05	802.11b	11	Left Cheek	1	1	14.5	14.45	0.16	**0.265**	**0.117**	**0.268**
W06	802.11b	6	Left Cheek	1	1	14.5	14.36	0.07	0.243	0.109	0.251
W07	802.11b	11	Left Cheek	2	1	14.5	14.45	0.07	0.256	0.113	0.259
W08	802.11b	11	Left Cheek	3	1	14.5	14.45	-0.05	0.251	0.106	0.254
W09	802.11b	11	Left Cheek	4	1	14.5	14.45	0.09	0.261	0.097	0.264
W10	802.11b	11	Left Cheek	5	1	14.5	14.45	0.01	0.260	0.108	0.263

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

5. Head SAR test results of BT

Test No.	Band	Channel	Test Position	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
B01	BT DH5	39	Right Cheek	1	1	13	12.6	0.02	0.102	0.047	0.112
B02	BT DH5	39	Right Tilted	1	1	13	12.6	0.04	0.100	0.043	0.110
B03	BT DH5	39	Left Cheek	1	1	13	12.6	-0.09	**0.209**	**0.092**	**0.229**
B04	BT DH5	39	Left Tilted	1	1	13	12.6	0.01	0.134	0.055	0.147
B05	BT DH5	39	Left Cheek	2	1	13	12.6	0.08	0.181	0.081	0.198
B06	BT DH5	39	Left Cheek	3	1	13	12.6	-0.01	0.183	0.080	0.201
B07	BT DH5	39	Left Cheek	4	1	13	12.6	0.05	0.189	0.082	0.207
B08	BT DH5	39	Left Cheek	5	1	13	12.6	-0.04	0.194	0.085	0.213

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

6. Head SAR test results of 5G WiFi

Test No.	Band	Channel	Test Position	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W12	802.11a	60	Right Cheek	1	6	14.5	14.46	0.04	0.082	0.038	0.083
W13	802.11a	60	Right Tilted	1	6	14.5	14.46	-0.13	0.108	0.044	0.109
W14	802.11a	60	Left Cheek	1	6	14.5	14.46	0.01	0.238	0.082	0.240
W15	802.11a	60	Left Tilted	1	6	14.5	14.46	-0.05	0.216	0.071	0.218
W16	802.11a	56	Left Cheek	1	6	14.5	14.39	0.03	**0.260**	**0.087**	**0.267**
W17	802.11a	64	Left Cheek	1	6	14.5	14.32	0.08	0.192	0.066	0.200
W18	802.11a	56	Left Cheek	2	6	14.5	14.39	0.03	0.252	0.088	0.258
W19	802.11a	56	Left Cheek	3	6	14.5	14.39	-0.07	0.254	0.083	0.261
W20	802.11a	56	Left Cheek	4	6	14.5	14.39	0.04	0.254	0.084	0.261
W21	802.11a	56	Left Cheek	5	6	14.5	14.39	0	0.245	0.079	0.251
W23	802.11a	112	Right Cheek	1	6	14.5	14.41	0.1	0.073	0.028	0.074
W24	802.11a	112	Right Tilted	1	6	14.5	14.41	-0.05	0.076	0.029	0.077
W25	802.11a	112	Left Cheek	1	6	14.5	14.41	0.07	0.183	0.064	0.187
W26	802.11a	112	Left Tilted	1	6	14.5	14.41	0.09	0.079	0.032	0.080
W27	802.11a	108	Left Cheek	1	6	14.5	14.39	-0.04	0.205	0.066	0.210
W28	802.11a	104	Left Cheek	1	6	14.5	14.35	0.03	0.202	0.063	0.209
W29	802.11a	108	Left Cheek	2	6	14.5	14.39	0.07	0.203	0.061	0.208
W30	802.11a	108	Left Cheek	3	6	14.5	14.39	-0.15	0.197	0.058	0.202
W31	802.11a	108	Left Cheek	4	6	14.5	14.39	-0.13	0.197	0.061	0.202
W32	802.11a	108	Left Cheek	5	6	14.5	14.39	0.05	**0.207**	**0.071**	**0.212**
W34	802.11ac VHT80	155	Right Cheek	1	MCS0	12	11.73	0.01	0.050	0.015	0.054
W35	802.11ac VHT80	155	Right Tilted	1	MCS0	12	11.73	0.01	0.054	0.026	0.057
W36	802.11ac VHT80	155	Left Cheek	1	MCS0	12	11.73	0.04	0.081	0.071	0.086
W37	802.11ac VHT80	155	Left Tilted	1	MCS0	12	11.73	-0.07	0.098	0.036	0.104
W38	802.11ac VHT80	155	Left Tilted	2	MCS0	12	11.73	-0.05	0.057	0.035	0.061
W39	802.11ac VHT80	155	Left Tilted	3	MCS0	12	11.73	0.06	0.059	0.026	0.062
W40	802.11ac VHT80	155	Left Tilted	4	MCS0	12	11.73	0	0.072	0.017	0.076
W41	802.11ac VHT80	155	Left Tilted	5	MCS0	12	11.73	0.05	**0.122**	**0.045**	**0.130**

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

7.2.2 SAR MEASUREMENT RESULT OF BODY-WORN

1. Body-worn SAR test results of GSM

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
G37	GSM 850	GSM	190	Front Face	1.5	Main	1	33	31.28	0.19	0.083	0.063	0.123
G38	GSM 850	GSM	190	Rear Face	1.5	Main	1	33	31.28	0.09	0.118	0.089	0.175
G39	GSM 850	GSM	190	Rear Face	1.5	Main	2	33	31.28	0.07	**0.126**	**0.096**	**0.187**
G40	GSM 850	GSM	190	Rear Face	1.5	Main	3	33	31.28	-0.08	0.124	0.095	0.184
G41	GSM 850	GSM	190	Rear Face	1.5	Main	4	33	31.28	0.11	0.121	0.087	0.180
G42	GSM 850	GSM	190	Rear Face	1.5	Main	5	33	31.28	0.09	0.117	0.080	0.174
G54	GSM 850	GSM	190	Front Face	1.5	Second	1	33	31.7	-0.05	0.100	0.076	0.135
G55	GSM 850	GSM	190	Rear Face	1.5	Second	1	33	31.7	-0.19	**0.115**	**0.087**	**0.155**
G56	GSM 850	GSM	190	Rear Face	1.5	Second	2	33	31.7	0.01	0.101	0.082	0.136
G57	GSM 850	GSM	190	Rear Face	1.5	Second	3	33	31.7	0.02	0.088	0.066	0.119
G58	GSM 850	GSM	190	Rear Face	1.5	Second	4	33	31.7	0.09	0.081	0.070	0.110
G59	GSM 850	GSM	190	Rear Face	1.5	Second	5	33	31.7	0.03	0.080	0.076	0.108
G70	GSM 1900	GSM	661	Front Face	1.5	Main	1	30.5	29.03	-0.06	0.166	0.078	0.233
G71	GSM 1900	GSM	661	Rear Face	1.5	Main	1	30.5	29.03	0.09	**0.180**	**0.094**	**0.253**
G72	GSM 1900	GSM	661	Rear Face	1.5	Main	2	30.5	29.03	0.08	0.169	0.090	0.237
G73	GSM 1900	GSM	661	Rear Face	1.5	Main	3	30.5	29.03	-0.12	0.175	0.093	0.245
G74	GSM 1900	GSM	661	Rear Face	1.5	Main	4	30.5	29.03	0.04	0.173	0.091	0.243
G75	GSM 1900	GSM	661	Rear Face	1.5	Main	5	30.5	29.03	-0.06	0.166	0.083	0.233
G87	GSM 1900	GSM	661	Front Face	1.5	Second	1	30.5	29.77	0	<0.001	<0.001	<0.001
G88	GSM 1900	GSM	661	Rear Face	1.5	Second	1	30.5	29.77	0	<0.001	<0.001	<0.001
G89	GSM 1900	GSM	661	Rear Face	1.5	Second	2	30.5	29.77	0	<0.001	<0.001	<0.001
G90	GSM 1900	GSM	661	Rear Face	1.5	Second	3	30.5	29.77	0	<0.001	<0.001	<0.001
G91	GSM 1900	GSM	661	Rear Face	1.5	Second	4	30.5	29.77	0	<0.001	<0.001	<0.001
G92	GSM 1900	GSM	661	Rear Face	1.5	Second	5	30.5	29.77	0	<0.001	<0.001	<0.001

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

2. Body-worn SAR test results of UMTS

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
U60	UMTS B2	RMC12.2K	9400	Front Face	1.5	Main	1	21.5	20.85	-0.01	0.195	0.106	0.226
U61	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Main	1	21.5	20.85	0.06	**0.304**	**0.158**	**0.353**
U62	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Main	2	21.5	20.85	0.09	0.289	0.153	0.336
U63	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Main	3	21.5	20.85	-0.12	0.285	0.144	0.331
U64	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Main	4	21.5	20.85	0.05	0.303	0.158	0.352
U65	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Main	5	21.5	20.85	0.09	0.297	0.154	0.345
U77	UMTS B2	RMC12.2K	9400	Front Face	1.5	Second	1	22	21.78	0.01	0.221	0.122	0.232
U78	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Second	1	22	21.78	-0.01	0.268	0.151	0.282
U79	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Second	2	22	21.78	-0.06	0.256	0.131	0.269
U80	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Second	3	22	21.78	0.08	**0.269**	**0.151**	**0.283**
U81	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Second	4	22	21.78	-0.11	0.241	0.139	0.254
U82	UMTS B2	RMC12.2K	9400	Rear Face	1.5	Second	5	22	21.78	0.09	0.238	0.125	0.250
U93	UMTS B4	RMC12.2K	1413	Front Face	1.5	Main	1	20.5	20.32	0	0.215	0.136	0.224
U94	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Main	1	20.5	20.32	0.07	**0.377**	**0.229**	**0.393**
U95	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Main	2	20.5	20.32	0.01	0.369	0.221	0.385
U96	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Main	3	20.5	20.32	-0.15	0.359	0.506	0.374
U97	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Main	4	20.5	20.32	0.05	0.371	0.527	0.387
U98	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Main	5	20.5	20.32	0	0.375	0.228	0.391
U110	UMTS B4	RMC12.2K	1413	Front Face	1.5	Second	1	21	20.95	-0.03	0.173	0.095	0.175
U111	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Second	1	21	20.95	0.06	**0.225**	**0.131**	**0.228**
U112	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Second	2	21	20.95	-0.03	0.223	0.127	0.226
U113	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Second	3	21	20.95	0.02	0.209	0.129	0.211
U114	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Second	4	21	20.95	-0.2	0.216	0.126	0.219
U115	UMTS B4	RMC12.2K	1413	Rear Face	1.5	Second	5	21	20.95	0.09	0.201	0.119	0.203
U126	UMTS B5	RMC12.2K	4182	Front Face	1.5	Main	1	24	23.22	-0.06	0.120	0.092	0.144
U127	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Main	1	24	23.22	0.13	0.171	0.129	0.205
U128	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Main	2	24	23.22	0.05	0.166	0.125	0.199
U129	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Main	3	24	23.22	0	0.155	0.119	0.185
U130	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Main	4	24	23.22	0.01	**0.174**	**0.134**	**0.208**
U131	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Main	5	24	23.22	-0.13	0.172	0.132	0.206
U143	UMTS B5	RMC12.2K	4182	Front Face	1.5	Second	1	24.5	23.43	-0.02	0.055	0.044	0.070
U144	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Second	1	24.5	23.43	-0.11	0.062	0.049	0.079
U145	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Second	2	24.5	23.43	-0.03	0.061	0.046	0.078
U146	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Second	3	24.5	23.43	0.06	**0.067**	**0.053**	**0.085**
U147	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Second	4	24.5	23.43	0.06	0.056	0.049	0.072
U148	UMTS B5	RMC12.2K	4182	Rear Face	1.5	Second	5	24.5	23.43	0.04	0.052	0.048	0.066

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

3. Body-worn SAR test results of LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L305	LTE B2	QPSK20M	19100	1	0	Front Face	1.5	Main	1	23	22.88	0.01	0.188	0.105	0.193
L306	LTE B2	QPSK20M	19100	1	0	Rear Face	1.5	Main	1	23	22.88	0	0.286	0.156	0.294
L307	LTE B2	QPSK20M	19100	50	25	Front Face	1.5	Main	1	23	22.61	-0.16	0.191	0.106	0.209
L308	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Main	1	23	22.61	0.09	**0.292**	**0.159**	**0.320**
L309	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Main	2	23	22.61	0.18	0.281	0.153	0.307
L310	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Main	3	23	22.61	0.02	0.284	0.156	0.311
L311	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Main	4	23	22.61	0.05	0.280	0.152	0.306
L312	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Main	5	23	22.61	-0.04	0.273	0.150	0.299
L329	LTE B2	QPSK20M	19100	1	0	Front Face	1.5	Second	1	23	22.58	-0.02	0.253	0.140	0.279
L330	LTE B2	QPSK20M	19100	1	0	Rear Face	1.5	Second	1	23	22.58	0.06	0.318	0.177	0.350
L331	LTE B2	QPSK20M	19100	50	25	Front Face	1.5	Second	1	22.5	21.99	0.08	0.266	0.149	0.299
L332	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Second	1	22.5	21.99	0.09	**0.482**	**0.279**	**0.542**
L333	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Second	2	22.5	21.99	0.02	0.312	0.179	0.351
L334	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Second	3	22.5	21.99	0.01	0.315	0.188	0.354
L335	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Second	4	22.5	21.99	0.03	0.321	0.182	0.361
L336	LTE B2	QPSK20M	19100	50	25	Rear Face	1.5	Second	5	22.5	21.99	0.05	0.307	0.186	0.345
L356	LTE B4	QPSK20M	20175	1	99	Front Face	1.5	Main	1	23.5	23.32	0.02	0.142	0.093	0.148
L357	LTE B4	QPSK20M	20175	1	99	Rear Face	1.5	Main	1	23.5	23.32	0	**0.208**	**0.125**	**0.217**
L358	LTE B4	QPSK20M	20300	50	50	Front Face	1.5	Main	1	23.5	22.49	-0.15	0.095	0.062	0.120
L359	LTE B4	QPSK20M	20300	50	50	Rear Face	1.5	Main	1	23.5	22.49	0.04	0.160	0.097	0.202
L360	LTE B4	QPSK20M	20175	1	99	Rear Face	1.5	Main	2	23.5	23.32	-0.17	0.199	0.119	0.207
L361	LTE B4	QPSK20M	20175	1	99	Rear Face	1.5	Main	3	23.5	23.32	0.02	0.195	0.117	0.203
L362	LTE B4	QPSK20M	20175	1	99	Rear Face	1.5	Main	4	23.5	23.32	0.01	0.201	0.120	0.209
L363	LTE B4	QPSK20M	20175	1	99	Rear Face	1.5	Main	5	23.5	23.32	0	0.202	0.122	0.210
L381	LTE B4	QPSK20M	20050	1	99	Front Face	1.5	Second	1	24	23.62	-0.1	0.157	0.090	0.171
L382	LTE B4	QPSK20M	20050	1	99	Rear Face	1.5	Second	1	24	23.62	0.05	0.179	0.104	0.195
L383	LTE B4	QPSK20M	20175	50	50	Front Face	1.5	Second	1	23	22.31	0.06	0.137	0.078	0.161
L384	LTE B4	QPSK20M	20175	50	50	Rear Face	1.5	Second	1	23	22.31	-0.03	0.148	0.087	0.174
L385	LTE B4	QPSK20M	20050	1	99	Rear Face	1.5	Second	2	24	23.62	0.02	0.145	0.079	0.158
L386	LTE B4	QPSK20M	20050	1	99	Rear Face	1.5	Second	3	24	23.62	0.06	0.171	0.069	0.187
L387	LTE B4	QPSK20M	20050	1	99	Rear Face	1.5	Second	4	24	23.62	-0.1	**0.180**	**0.104**	**0.196**
L388	LTE B4	QPSK20M	20050	1	99	Rear Face	1.5	Second	5	24	23.62	0.06	0.176	0.089	0.192
L403	LTE B5	QPSK10M	20600	1	0	Front Face	1.5	Main	1	24	23.92	0.08	0.188	0.139	0.191
L404	LTE B5	QPSK10M	20600	1	0	Rear Face	1.5	Main	1	24	23.92	-0.03	**0.196**	**0.149**	**0.200**
L405	LTE B5	QPSK10M	20600	25	25	Front Face	1.5	Main	1	23	22.97	-0.07	0.174	0.131	0.175
L406	LTE B5	QPSK10M	20600	25	25	Rear Face	1.5	Main	1	23	22.97	-0.02	0.165	0.126	0.166
L407	LTE B5	QPSK10M	20600	1	0	Rear Face	1.5	Main	2	24	23.92	-0.11	0.187	0.141	0.190
L408	LTE B5	QPSK10M	20600	1	0	Rear Face	1.5	Main	3	24	23.92	0	0.169	0.125	0.172
L409	LTE B5	QPSK10M	20600	1	0	Rear Face	1.5	Main	4	24	23.92	0.05	0.178	0.130	0.181
L410	LTE B5	QPSK10M	20600	1	0	Rear Face	1.5	Main	5	24	23.92	0.06	0.188	0.142	0.191
L427	LTE B5	QPSK10M	20600	1	49	Front Face	1.5	Second	1	24	23.85	0.02	0.087	0.054	0.090
L428	LTE B5	QPSK10M	20600	1	49	Rear Face	1.5	Second	1	24	23.85	0.03	0.089	0.056	0.092
L429	LTE B5	QPSK10M	20600	25	25	Front Face	1.5	Second	1	23	22.73	0.03	0.081	0.060	0.086
L430	LTE B5	QPSK10M	20600	25	25	Rear Face	1.5	Second	1	23	22.73	0.07	0.068	0.044	0.072
L431	LTE B5	QPSK10M	20600	1	49	Rear Face	1.5	Second	2	24	23.85	0.17	0.089	0.056	0.092
L432	LTE B5	QPSK10M	20600	1	49	Rear Face	1.5	Second	3	24	23.85	0.09	**0.092**	**0.060**	**0.095**
L433	LTE B5	QPSK10M	20600	1	49	Rear Face	1.5	Second	4	24	23.85	0.01	0.088	0.057	0.091
L434	LTE B5	QPSK10M	20600	1	49	Rear Face	1.5	Second	5	24	23.85	0.05	0.085	0.058	0.088

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L449	LTE B7	QPKS20M	21100	1	0	Front Face	1.5	Main	1	23	22.86	-0.08	0.146	0.078	0.151
L450	LTE B7	QPKS20M	21100	1	0	Rear Face	1.5	Main	1	23	22.86	-0.1	0.446	0.231	0.461
L451	LTE B7	QPKS20M	21100	50	0	Front Face	1.5	Main	1	22.5	22.40	0.01	0.127	0.067	0.130
L452	LTE B7	QPKS20M	21100	50	0	Rear Face	1.5	Main	1	22.5	22.40	0.06	0.402	0.208	0.412
L453	LTE B7	QPKS20M	21100	1	0	Rear Face	1.5	Main	2	23	22.86	0.05	**0.476**	**0.245**	**0.492**
L454	LTE B7	QPKS20M	21100	1	0	Rear Face	1.5	Main	3	23	22.86	-0.06	0.432	0.213	0.446
L455	LTE B7	QPKS20M	21100	1	0	Rear Face	1.5	Main	4	23	22.86	0.12	0.356	0.201	0.368
L456	LTE B7	QPKS20M	21100	1	0	Rear Face	1.5	Main	5	23	22.86	0.07	0.401	0.198	0.414
L483	LTE B7	QPSK20M	20850	1	0	Front Face	1.5	Second	1	19	18.90	0.01	0.351	0.172	0.359
L484	LTE B7	QPSK20M	20850	1	0	Rear Face	1.5	Second	1	19	18.90	0.09	**0.668**	**0.321**	**0.684**
L485	LTE B7	QPSK20M	20850	50	0	Front Face	1.5	Second	1	19	18.42	0.06	0.328	0.161	0.375
L486	LTE B7	QPSK20M	20850	50	0	Rear Face	1.5	Second	1	19	18.42	-0.02	0.595	0.293	0.680
L487	LTE B7	QPKS20M	20850	1	0	Rear Face	1.5	Second	2	19	18.90	-0.01	0.612	0.214	0.626
L488	LTE B7	QPKS20M	20850	1	0	Rear Face	1.5	Second	3	19	18.90	0.09	0.564	0.168	0.577
L489	LTE B7	QPKS20M	20850	1	0	Rear Face	1.5	Second	4	19	18.90	0.11	0.630	0.264	0.645
L490	LTE B7	QPKS20M	20850	1	0	Rear Face	1.5	Second	5	19	18.90	0.07	0.608	0.245	0.622
L510	LTE B12	QPSK10M	23130	1	0	Front Face	1.5	Main	1	24	23.76	0.03	0.126	0.099	0.133
L511	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Main	1	24	23.76	0.06	**0.210**	**0.162**	**0.222**
L512	LTE B12	QPSK10M	23060	25	0	Front Face	1.5	Main	1	23	22.49	-0.08	0.102	0.077	0.115
L513	LTE B12	QPSK10M	23060	25	0	Rear Face	1.5	Main	1	23	22.49	0.01	0.185	0.140	0.208
L514	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Main	2	24	23.76	0.02	0.201	0.158	0.212
L515	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Main	3	24	23.76	0.09	0.193	0.156	0.204
L516	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Main	4	24	23.76	0.03	0.192	0.154	0.203
L517	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Main	5	24	23.76	-0.1	0.190	0.147	0.201
L534	LTE B12	QPSK10M	23130	1	0	Front Face	1.5	Second	1	24	23.35	0.04	0.005	0.004	0.006
L535	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Second	1	24	23.35	-0.15	**0.006**	**0.005**	**0.007**
L536	LTE B12	QPSK10M	23060	25	0	Front Face	1.5	Second	1	23	22.20	0.1	0.004	0.003	0.005
L537	LTE B12	QPSK10M	23060	25	0	Rear Face	1.5	Second	1	23	22.20	0.03	0.005	0.001	0.006
L538	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Second	2	24	23.35	0.05	0.003	0.001	0.003
L539	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Second	3	24	23.35	0.02	0.002	0.001	0.002
L540	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Second	4	24	23.35	0.05	0.005	0.004	0.005
L541	LTE B12	QPSK10M	23130	1	0	Rear Face	1.5	Second	5	24	23.35	0.11	0.002	0.003	0.002

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L602	LTE B26	QPSK15M	26765	1	37	Front Face	1.5	Main	1	24	22.94	0.02	0.100	0.072	0.128
L603	LTE B26	QPSK15M	26765	1	37	Rear Face	1.5	Main	1	24	22.94	-0.06	**0.112**	**0.085**	**0.143**
L604	LTE B26	QPSK15M	26865	36	0	Front Face	1.5	Main	1	23	22.56	0.03	0.097	0.062	0.107
L605	LTE B26	QPSK15M	26865	36	0	Rear Face	1.5	Main	1	23	22.56	0.06	0.096	0.070	0.106
L606	LTE B26	QPSK15M	26765	1	37	Rear Face	1.5	Main	2	24	22.94	0	0.108	0.081	0.138
L607	LTE B26	QPSK15M	26765	1	37	Rear Face	1.5	Main	3	24	22.94	0.02	0.111	0.083	0.142
L608	LTE B26	QPSK15M	26765	1	37	Rear Face	1.5	Main	4	24	22.94	-0.14	0.104	0.079	0.133
L609	LTE B26	QPSK15M	26765	1	37	Rear Face	1.5	Main	5	24	22.94	-0.01	0.100	0.074	0.127
L626	LTE B26	QPSK15M	26865	1	37	Front Face	1.5	Second	1	24	23.70	-0.03	0.033	0.025	0.035
L627	LTE B26	QPSK15M	26865	1	37	Rear Face	1.5	Second	1	24	23.70	0.07	**0.036**	**0.027**	**0.038**
L628	LTE B26	QPSK15M	26865	36	0	Front Face	1.5	Second	1	23	22.97	0	0.025	0.019	0.025
L629	LTE B26	QPSK15M	26865	36	0	Rear Face	1.5	Second	1	23	22.97	0.04	0.028	0.021	0.028
L630	LTE B26	QPSK15M	26865	1	37	Rear Face	1.5	Second	2	24	23.70	0.03	0.034	0.025	0.036
L631	LTE B26	QPSK15M	26865	1	37	Rear Face	1.5	Second	3	24	23.70	0.01	0.029	0.023	0.031
L632	LTE B26	QPSK15M	26865	1	37	Rear Face	1.5	Second	4	24	23.70	0.09	0.033	0.025	0.035
L633	LTE B26	QPSK15M	26865	1	37	Rear Face	1.5	Second	5	24	23.70	0.08	0.031	0.029	0.034
L648	LTE B38	QPSK20M	38150	1	99	Front Face	1.5	Main	1	24	23.32	0.02	0.144	0.077	0.168
L649	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Main	1	24	23.32	-0.09	**0.492**	**0.253**	**0.576**
L650	LTE B38	QPSK20M	38150	50	50	Front Face	1.5	Main	1	23	22.82	0.04	0.141	0.076	0.147
L651	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Main	1	23	22.82	0.06	0.470	0.242	0.490
L652	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Main	2	24	23.32	0.03	0.481	0.241	0.563
L653	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Main	3	24	23.32	-0.09	0.467	0.226	0.546
L654	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Main	4	24	23.32	0.02	0.485	0.249	0.568
L655	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Main	5	24	23.32	0.12	0.472	0.244	0.552
L672	LTE B38	QPSK20M	38150	1	99	Front Face	1.5	Second	1	24	22.94	-0.02	0.267	0.157	0.341
L673	LTE B38	QPSK20M	38150	1	99	Rear Face	1.5	Second	1	24	22.94	0.03	0.433	0.142	0.553
L674	LTE B38	QPSK20M	38150	50	50	Front Face	1.5	Second	1	23	22.66	0.05	0.253	0.145	0.274
L675	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Second	1	23	22.66	-0.07	0.521	0.262	0.564
L676	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Second	2	23	22.66	0.01	0.512	0.231	0.554
L677	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Second	3	23	22.66	-0.08	**0.526**	**0.263**	**0.569**
L678	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Second	4	23	22.66	0.01	0.516	0.215	0.558
L679	LTE B38	QPSK20M	38150	50	50	Rear Face	1.5	Second	5	23	22.66	0.12	0.509	0.209	0.551
L696	LTE B41	QPSK20M	41140	1	99	Front Face	1.5	Main	1	24	23.92	0.12	0.125	0.068	0.127
L697	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Main	1	24	23.92	0.02	0.518	0.266	0.527
L698	LTE B41	QPSK20M	41140	50	50	Front Face	1.5	Main	1	23	22.84	0.03	0.111	0.059	0.115
L699	LTE B41	QPSK20M	41140	50	50	Rear Face	1.5	Main	1	23	22.84	0	0.406	0.206	0.421
L700	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Main	2	24	23.92	-0.08	**0.564**	**0.289**	**0.574**
L701	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Main	3	24	23.92	0.05	0.542	0.265	0.552
L702	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Main	4	24	23.92	-0.12	0.526	0.215	0.535
L703	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Main	5	24	23.92	0.09	0.512	0.206	0.521
L720	LTE B41	QPSK20M	41140	1	99	Front Face	1.5	Second	1	24	23.49	0.02	0.310	0.174	0.349
L721	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Second	1	24	23.49	0.01	0.461	0.239	0.518
L722	LTE B41	QPSK20M	41140	50	0	Front Face	1.5	Second	1	23	22.41	0.06	0.256	0.142	0.293
L723	LTE B41	QPSK20M	41140	50	0	Rear Face	1.5	Second	1	23	22.41	-0.1	0.433	0.221	0.496
L724	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Second	2	24	23.49	0.06	0.452	0.216	0.508
L725	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Second	3	24	23.49	-0.12	0.451	0.209	0.507
L726	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Second	4	24	23.49	0.03	**0.465**	**0.240**	**0.523**
L727	LTE B41	QPSK20M	41140	1	99	Rear Face	1.5	Second	5	24	23.49	-0.06	0.459	0.213	0.516

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L742	LTE B66	QPSK20M	132322	1	99	Front Face	1.5	Main	1	23.5	23.45	0.03	0.136	0.084	0.138
L743	LTE B66	QPSK20M	132322	1	99	Rear Face	1.5	Main	1	23.5	23.45	0.01	0.210	0.122	0.213
L744	LTE B66	QPSK20M	132572	50	25	Front Face	1.5	Main	1	22.5	22.48	0.02	0.111	0.068	0.112
L745	LTE B66	QPSK20M	132572	50	25	Rear Face	1.5	Main	1	22.5	22.48	0	0.184	0.105	0.185
L746	LTE B66	QPSK20M	132322	1	99	Rear Face	1.5	Main	2	23.5	23.45	-0.04	0.213	0.121	0.216
L747	LTE B66	QPSK20M	132322	1	99	Rear Face	1.5	Main	3	23.5	23.45	-0.13	**0.238**	**0.142**	**0.241**
L748	LTE B66	QPSK20M	132322	1	99	Rear Face	1.5	Main	4	23.5	23.45	-0.19	0.226	0.136	0.229
L749	LTE B66	QPSK20M	132322	1	99	Rear Face	1.5	Main	5	23.5	23.45	0.07	0.217	0.126	0.220
L766	LTE B66	QPSK20M	132072	1	99	Front Face	1.5	Second	1	24	23.67	-0.01	0.164	0.095	0.177
L767	LTE B66	QPSK20M	132072	1	99	Rear Face	1.5	Second	1	24	23.67	0.17	0.189	0.110	0.204
L768	LTE B66	QPSK20M	132572	50	50	Front Face	1.5	Second	1	23	22.12	0.01	0.145	0.083	0.178
L769	LTE B66	QPSK20M	132572	50	50	Rear Face	1.5	Second	1	23	22.12	0.11	0.160	0.100	0.196
L770	LTE B66	QPSK20M	132072	1	99	Rear Face	1.5	Second	2	24	23.67	0.02	0.189	0.102	0.204
L771	LTE B66	QPSK20M	132072	1	99	Rear Face	1.5	Second	3	24	23.67	-0.12	0.178	0.089	0.192
L772	LTE B66	QPSK20M	132072	1	99	Rear Face	1.5	Second	4	24	23.67	-0.05	**0.202**	**0.117**	**0.218**
L773	LTE B66	QPSK20M	132072	1	99	Rear Face	1.5	Second	5	24	23.67	0.1	0.189	0.102	0.204

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

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

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W42	802.11b	11	Front Face	1.5	1	1	20	19.87	0.03	0.246	0.120	0.253
W43	802.11b	11	Rear Face	1.5	1	1	20	19.87	-0.11	0.287	0.141	0.296
W44	802.11b	6	Rear Face	1.5	1	1	20	19.61	0.05	0.314	0.153	0.344
W45	802.11b	1	Rear Face	1.5	1	1	20	19.5	0.01	0.255	0.126	0.286
W46	802.11b	6	Rear Face	1.5	2	1	20	19.61	-0.2	0.318	0.156	0.348
W47	802.11b	6	Rear Face	1.5	3	1	20	19.61	0.18	0.320	0.157	0.350
W48	802.11b	6	Rear Face	1.5	4	1	20	19.61	0	0.321	0.157	0.351
W49	802.11b	6	Rear Face	1.5	5	1	20	19.61	0.06	**0.330**	**0.164**	**0.361**

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

5. Body-worn SAR test results of BT

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
B09	BT DH5	39	Front Face	1.5	1	1	13	12.6	0	0.019	0.008	0.021
B10	BT DH5	39	Rear Face	1.5	1	1	13	12.6	0.01	**0.051**	**0.025**	**0.056**
B11	BT DH5	39	Rear Face	1.5	2	1	13	12.6	-0.02	0.036	0.014	0.039
B12	BT DH5	39	Rear Face	1.5	3	1	13	12.6	0.05	0.044	0.025	0.048
B13	BT DH5	39	Rear Face	1.5	4	1	13	12.6	0	0.035	0.014	0.038
B14	BT DH5	39	Rear Face	1.5	5	1	13	12.6	0.07	0.045	0.020	0.049

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

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

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W73	802.11a	60	Front Face	1.5	1	6	19	18.61	0.05	0.204	0.071	0.223
W74	802.11a	60	Rear Face	1.5	1	6	19	18.61	0.01	0.487	0.185	0.533
W75	802.11a	56	Rear Face	1.5	1	6	19	18.59	-0.12	0.558	0.214	0.613
W76	802.11a	52	Rear Face	1.5	1	6	19	18.57	-0.05	**0.615**	**0.237**	**0.679**
W77	802.11a	52	Rear Face	1.5	2	6	19	18.57	0.04	0.584	0.232	0.645
W78	802.11a	52	Rear Face	1.5	3	6	19	18.57	-0.05	0.558	0.207	0.616
W79	802.11a	52	Rear Face	1.5	4	6	19	18.57	0.07	0.593	0.242	0.655
W80	802.11a	52	Rear Face	1.5	5	6	19	18.57	0.09	0.591	0.240	0.653
W93	802.11a	140	Front Face	1.5	1	6	19	18.9	0.01	0.407	0.093	0.416
W94	802.11a	140	Rear Face	1.5	1	6	19	18.9	0.01	**0.729**	**0.298**	**0.746**
W95	802.11a	116	Rear Face	1.5	1	6	19	18.87	0.06	0.409	0.174	0.421
W96	802.11a	112	Rear Face	1.5	1	6	19	18.84	-0.01	0.336	0.147	0.349
W97	802.11a	140	Rear Face	1.5	2	6	19	18.9	0.09	0.611	0.256	0.625
W98	802.11a	140	Rear Face	1.5	3	6	19	18.9	-0.12	0.640	0.300	0.655
W99	802.11a	140	Rear Face	1.5	4	6	19	18.9	0.06	0.653	0.283	0.668
W100	802.11a	140	Rear Face	1.5	5	6	19	18.9	0.04	0.649	0.164	0.664
W113	802.11ac VHT80	155	Front Face	1.5	1	MCS0	16.5	16.24	0.07	0.197	0.068	0.209
W114	802.11ac VHT80	155	Rear Face	1.5	1	MCS0	16.5	16.24	-0.02	0.374	0.164	0.397
W115	802.11ac VHT80	155	Rear Face	1.5	2	MCS0	16.5	16.24	0.06	0.374	0.174	0.397
W116	802.11ac VHT80	155	Rear Face	1.5	3	MCS0	16.5	16.24	0.04	**0.436**	**0.171**	**0.463**
W117	802.11ac VHT80	155	Rear Face	1.5	4	MCS0	16.5	16.24	-0.11	0.414	0.198	0.440
W118	802.11ac VHT80	155	Rear Face	1.5	5	MCS0	16.5	16.24	0.17	0.391	0.181	0.415

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

7.2.3 SAR MEASUREMENT RESULT OF HOTSPOT

1. Hotspot SAR test results of GSM

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
G44	GSM 850	GPRS2TX	190	Front Face	1	Main	1	31	29.34	-0.01	0.123	0.065	0.180
G45	GSM 850	GPRS2TX	190	Rear Face	1	Main	1	31	29.34	-0.08	**0.170**	**0.105**	**0.249**
G46	GSM 850	GPRS2TX	190	Left Side	1	Main	1	31	29.34	0.06	0.109	0.051	0.160
G47	GSM 850	GPRS2TX	190	Right Side	1	Main	1	31	29.34	-0.07	0.087	0.032	0.128
G48	GSM 850	GPRS2TX	190	Bottom Side	1	Main	1	31	29.34	0.15	0.134	0.074	0.196
G49	GSM 850	GPRS2TX	190	Rear Face	1	Main	2	31	29.34	0.12	0.161	0.102	0.236
G50	GSM 850	GPRS2TX	190	Rear Face	1	Main	3	31	29.34	0.04	0.149	0.090	0.218
G51	GSM 850	GPRS2TX	190	Rear Face	1	Main	4	31	29.34	-0.12	0.154	0.093	0.226
G52	GSM 850	GPRS2TX	190	Rear Face	1	Main	5	31	29.34	0.02	0.159	0.096	0.233
G61	GSM 850	GPRS2TX	190	Front Face	1	Second	1	31	29.48	0.01	0.096	0.073	0.137
G62	GSM 850	GPRS2TX	190	Rear Face	1	Second	1	31	29.48	-0.18	**0.123**	**0.094**	**0.175**
G63	GSM 850	GPRS2TX	190	Left Side	1	Second	1	31	29.48	0.02	0.064	0.023	0.090
G64	GSM 850	GPRS2TX	190	Top Side	1	Second	1	31	29.48	0.06	0.112	0.078	0.159
G65	GSM 850	GPRS2TX	190	Rear Face	1	Second	2	31	29.48	0.08	0.106	0.089	0.150
G66	GSM 850	GPRS2TX	190	Rear Face	1	Second	3	31	29.48	0.11	0.110	0.087	0.156
G67	GSM 850	GPRS2TX	190	Rear Face	1	Second	4	31	29.48	0.2	0.107	0.078	0.152
G68	GSM 850	GPRS2TX	190	Rear Face	1	Second	5	31	29.48	0.06	0.112	0.092	0.159
G77	GSM 1900	GPRS1TX	661	Front Face	1	Main	1	30.5	29.03	0.01	0.190	0.102	0.267
G78	GSM 1900	GPRS1TX	661	Rear Face	1	Main	1	30.5	29.03	0.06	0.301	0.151	0.422
G79	GSM 1900	GPRS1TX	661	Left Side	1	Main	1	30.5	29.03	0	<0.001	<0.001	<0.001
G80	GSM 1900	GPRS1TX	661	Right Side	1	Main	1	30.5	29.03	-0.02	0.223	0.112	0.313
G81	GSM 1900	GPRS1TX	661	Bottom Side	1	Main	1	30.5	29.03	0.01	**0.391**	**0.193**	**0.549**
G82	GSM 1900	GPRS1TX	661	Bottom Side	1	Main	2	30.5	29.03	0.05	0.383	0.017	0.537
G83	GSM 1900	GPRS1TX	661	Bottom Side	1	Main	3	30.5	29.03	-0.07	0.374	0.178	0.525
G84	GSM 1900	GPRS1TX	661	Bottom Side	1	Main	4	30.5	29.03	0.13	0.387	0.192	0.543
G85	GSM 1900	GPRS1TX	661	Bottom Side	1	Main	5	30.5	29.03	0.05	0.385	0.186	0.540
G94	GSM 1900	GPRS3TX	661	Front Face	1	Second	1	27	25.25	0.06	0.257	0.136	0.385
G95	GSM 1900	GPRS3TX	661	Rear Face	1	Second	1	27	25.25	0.11	0.301	0.167	0.450
G96	GSM 1900	GPRS3TX	661	Left Side	1	Second	1	27	25.25	0.03	0.083	0.048	0.124
G97	GSM 1900	GPRS3TX	661	Top Side	1	Second	1	27	25.25	0.02	**0.398**	**0.201**	**0.596**
G98	GSM 1900	GPRS3TX	661	Top Side	1	Second	2	27	25.25	0.09	0.388	0.198	0.581
G99	GSM 1900	GPRS3TX	661	Top Side	1	Second	3	27	25.25	-0.09	0.393	0.202	0.588
G100	GSM 1900	GPRS3TX	661	Top Side	1	Second	4	27	25.25	0.05	0.369	0.195	0.552
G101	GSM 1900	GPRS3TX	661	Top Side	1	Second	5	27	25.25	0.07	0.326	0.189	0.488

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

2. Hotspot SAR test results of UMTS

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
U67	UMTS B2	RMC12.2K	9400	Front Face	1	Main	1	21.5	20.85	0.01	0.340	0.178	0.395
U68	UMTS B2	RMC12.2K	9400	Rear Face	1	Main	1	21.5	20.85	0.09	0.562	0.286	0.653
U69	UMTS B2	RMC12.2K	9400	Left Side	1	Main	1	21.5	20.85	-0.05	0.067	0.033	0.077
U70	UMTS B2	RMC12.2K	9400	Right Side	1	Main	1	21.5	20.85	-0.06	0.381	0.195	0.443
U71	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	1	21.5	20.85	0.15	0.664	0.327	0.771
U72	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	2	21.5	20.85	-0.07	0.637	0.310	0.740
U73	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	3	21.5	20.85	0.06	**0.667**	**0.328**	**0.775**
U74	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	4	21.5	20.85	0.12	0.654	0.320	0.760
U75	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	5	21.5	20.85	0.08	0.649	0.316	0.754
U84	UMTS B2	RMC12.2K	9400	Front Face	1	Second	1	22	21.78	-0.01	0.332	0.185	0.349
U85	UMTS B2	RMC12.2K	9400	Rear Face	1	Second	1	22	21.78	0.06	0.354	0.207	0.372
U86	UMTS B2	RMC12.2K	9400	Left Side	1	Second	1	22	21.78	0.04	0.329	0.068	0.346
U87	UMTS B2	RMC12.2K	9400	Top Side	1	Second	1	22	21.78	-0.16	**0.683**	**0.342**	**0.718**
U88	UMTS B2	RMC12.2K	9400	Top Side	1	Second	2	22	21.78	0.01	0.645	0.336	0.679
U89	UMTS B2	RMC12.2K	9400	Top Side	1	Second	3	22	21.78	-0.16	0.638	0.342	0.671
U90	UMTS B2	RMC12.2K	9400	Top Side	1	Second	4	22	21.78	0.03	0.641	0.370	0.674
U91	UMTS B2	RMC12.2K	9400	Top Side	1	Second	5	22	21.78	0.05	0.650	0.340	0.684
U100	UMTS B4	RMC12.2K	1413	Front Face	1	Main	1	20.5	20.32	-0.06	0.200	0.124	0.208
U101	UMTS B4	RMC12.2K	1413	Rear Face	1	Main	1	20.5	20.32	0	0.380	0.222	0.396
U102	UMTS B4	RMC12.2K	1413	Left Side	1	Main	1	20.5	20.32	0.11	0.052	0.030	0.054
U103	UMTS B4	RMC12.2K	1413	Right Side	1	Main	1	20.5	20.32	0.05	0.130	0.077	0.136
U104	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	1	20.5	20.32	0.01	0.511	0.282	0.533
U105	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	2	20.5	20.32	-0.02	0.505	0.276	0.526
U106	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	3	20.5	20.32	0.05	0.488	0.264	0.509
U107	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	4	20.5	20.32	0.01	**0.559**	**0.301**	**0.583**
U108	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	5	20.5	20.32	-0.17	0.494	0.266	0.515
U117	UMTS B4	RMC12.2K	1413	Front Face	1	Second	1	21	20.95	-0.03	0.356	0.192	0.360
U118	UMTS B4	RMC12.2K	1413	Rear Face	1	Second	1	21	20.95	-0.06	0.385	0.217	0.389
U119	UMTS B4	RMC12.2K	1413	Left Side	1	Second	1	21	20.95	0.08	0.099	0.056	0.100
U120	UMTS B4	RMC12.2K	1413	Top Side	1	Second	1	21	20.95	-0.01	0.581	0.301	0.588
U121	UMTS B4	RMC12.2K	1413	Top Side	1	Second	2	21	20.95	0.02	0.684	0.320	0.692
U122	UMTS B4	RMC12.2K	1413	Top Side	1	Second	3	21	20.95	0.06	**0.702**	**0.360**	**0.710**
U123	UMTS B4	RMC12.2K	1413	Top Side	1	Second	4	21	20.95	0.08	0.687	0.336	0.695
U124	UMTS B4	RMC12.2K	1413	Top Side	1	Second	5	21	20.95	0.05	0.599	0.314	0.606

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
U133	UMTS B5	RMC12.2K	4182	Front Face	1	Main	1	24	23.22	0.07	0.175	0.118	0.209
U134	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	1	24	23.22	0.02	0.229	0.143	0.274
U135	UMTS B5	RMC12.2K	4182	Left Side	1	Main	1	24	23.22	-0.12	0.172	0.110	0.206
U136	UMTS B5	RMC12.2K	4182	Right Side	1	Main	1	24	23.22	0.12	0.115	0.070	0.138
U137	UMTS B5	RMC12.2K	4182	Bottom Side	1	Main	1	24	23.22	0.15	0.146	0.083	0.175
U138	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	2	24	23.22	0	0.230	0.141	0.275
U139	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	3	24	23.22	0.12	**0.236**	**0.145**	**0.282**
U140	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	4	24	23.22	0.01	0.224	0.130	0.268
U141	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	5	24	23.22	-0.06	0.221	0.129	0.264
U150	UMTS B5	RMC12.2K	4182	Front Face	1	Second	1	24.5	23.43	-0.01	0.077	0.052	0.099
U151	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	1	24.5	23.43	-0.07	0.112	0.072	0.143
U152	UMTS B5	RMC12.2K	4182	Left Side	1	Second	1	24.5	23.43	0.09	0.045	0.032	0.057
U153	UMTS B5	RMC12.2K	4182	Top Side	1	Second	1	24.5	23.43	0.05	0.087	0.053	0.111
U154	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	2	24.5	23.43	0.07	0.102	0.068	0.130
U155	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	3	24.5	23.43	-0.05	**0.115**	**0.073**	**0.147**
U156	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	4	24.5	23.43	0.08	0.111	0.070	0.142
U157	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	5	24.5	23.43	0.04	0.105	0.064	0.134

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

3. Hotspot SAR test results of LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L314	LTE B2	QPSK20M	19100	1	0	Front Face	1	Main	1	23	22.88	0.08	0.352	0.199	0.362
L315	LTE B2	QPSK20M	19100	1	0	Rear Face	1	Main	1	23	22.88	0.04	0.607	0.320	0.624
L316	LTE B2	QPSK20M	19100	1	0	Left Side	1	Main	1	23	22.88	-0.06	<0.001	<0.001	<0.001
L317	LTE B2	QPSK20M	19100	1	0	Right Side	1	Main	1	23	22.88	0.07	0.395	0.215	0.406
L318	LTE B2	QPSK20M	19100	1	0	Bottom Side	1	Main	1	23	22.88	0.02	0.579	0.310	0.595
L319	LTE B2	QPSK20M	19100	50	25	Front Face	1	Main	1	23	22.61	0.09	0.336	0.190	0.368
L320	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	1	23	22.61	0.03	**0.573**	**0.301**	**0.627**
L321	LTE B2	QPSK20M	19100	50	25	Left Side	1	Main	1	23	22.61	-0.01	0.065	0.033	0.072
L322	LTE B2	QPSK20M	19100	50	25	Right Side	1	Main	1	23	22.61	-0.17	0.385	0.211	0.421
L323	LTE B2	QPSK20M	19100	50	25	Bottom Side	1	Main	1	23	22.61	-0.02	0.517	0.271	0.566
L324	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	2	23	22.61	0.06	0.571	0.289	0.625
L325	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	3	23	22.61	0.08	0.567	0.291	0.620
L326	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	4	23	22.61	-0.01	0.547	0.259	0.599
L327	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	5	23	22.61	0.12	0.512	0.241	0.560
L338	LTE B2	QPSK20M	19100	1	0	Front Face	1	Second	1	23	22.58	-0.02	0.574	0.288	0.632
L339	LTE B2	QPSK20M	19100	1	0	Rear Face	1	Second	1	23	22.58	0.03	0.677	0.343	0.746
L340	LTE B2	QPSK20M	19100	1	0	Left Side	1	Second	1	23	22.58	0.06	0.219	0.112	0.241
L341	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	1	23	22.58	-0.05	0.789	0.388	0.869
L342	LTE B2	QPSK20M	19100	50	25	Front Face	1	Second	1	22.5	21.99	-0.02	0.601	0.300	0.676
L343	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Second	1	22.5	21.99	0.07	0.701	0.370	0.789
L344	LTE B2	QPSK20M	19100	50	25	Left Side	1	Second	1	22.5	21.99	0.11	0.243	0.122	0.273
L345	LTE B2	QPSK20M	19100	50	25	Top Side	1	Second	1	22.5	21.99	0.0.8	0.770	0.362	0.866
L346	LTE B2	QPSK20M	18700	1	0	Top Side	1	Second	1	23	22.54	0.09	0.759	0.386	0.843
L347	LTE B2	QPSK20M	18900	1	0	Top Side	1	Second	1	23	22.56	0.02	0.624	0.298	0.691
L348	LTE B2	QPSK20M	18900	50	25	Top Side	1	Second	1	22.5	21.88	0.1	0.612	0.291	0.705
L349	LTE B2	QPSK20M	18700	50	0	Top Side	1	Second	1	22.5	21.87	0.03	0.678	0.346	0.783
L350	LTE B2	QPSK20M	19100	100	0	Top Side	1	Second	1	22.5	21.87	0.02	0.743	0.412	0.859
L351	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	2	23	22.58	0.06	0.774	0.406	0.852
L352	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	3	23	22.58	0.03	**0.791**	**0.379**	**0.871**
L353	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	4	23	22.58	0.05	0.768	0.329	0.846
L354	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	5	23	22.58	0.07	0.748	0.356	0.824
L355	LTE B2	QPSK20M	19100	1	0	Top Side (Repeated)	1	Second	3	23	22.58	0.04	0.789	0.384	0.869

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L365	LTE B4	QPSK20M	20175	1	99	Front Face	1	Main	1	23.5	23.32	0	0.276	0.171	0.288
L366	LTE B4	QPSK20M	20175	1	99	Rear Face	1	Main	1	23.5	23.32	0.02	0.464	0.274	0.483
L367	LTE B4	QPSK20M	20175	1	99	Left Side	1	Main	1	23.5	23.32	0	0.066	0.040	0.069
L368	LTE B4	QPSK20M	20175	1	99	Right Side	1	Main	1	23.5	23.32	-0.15	0.180	0.110	0.188
L369	LTE B4	QPSK20M	20175	1	99	Bottom Side	1	Main	1	23.5	23.32	0.17	0.452	0.258	0.471
L370	LTE B4	QPSK20M	20300	50	50	Front Face	1	Main	1	23.5	22.49	-0.11	0.222	0.133	0.280
L371	LTE B4	QPSK20M	20300	50	50	Rear Face	1	Main	1	23.5	22.49	0.06	0.370	0.222	0.467
L372	LTE B4	QPSK20M	20300	50	50	Left Side	1	Main	1	23.5	22.49	0.08	0.054	0.032	0.067
L373	LTE B4	QPSK20M	20300	50	50	Right Side	1	Main	1	23.5	22.49	-0.13	0.178	0.105	0.225
L374	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	1	23.5	22.49	-0.03	**0.484**	**0.270**	**0.611**
L375	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	2	23.5	22.49	0.14	0.447	0.260	0.564
L376	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	3	23.5	22.49	0	0.462	0.264	0.583
L377	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	4	23.5	22.49	-0.06	0.471	0.266	0.594
L378	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	5	23.5	22.49	0.14	0.454	0.235	0.573
L390	LTE B4	QPSK20M	20050	1	99	Front Face	1	Second	1	24	23.62	-0.07	0.347	0.181	0.379
L391	LTE B4	QPSK20M	20050	1	99	Rear Face	1	Second	1	24	23.62	0.05	0.363	0.200	0.396
L392	LTE B4	QPSK20M	20050	1	99	Left Side	1	Second	1	24	23.62	-0.01	0.089	0.050	0.097
L393	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	1	24	23.62	-0.06	0.570	0.293	0.622
L394	LTE B4	QPSK20M	20175	50	50	Front Face	1	Second	1	23	22.31	0.01	0.284	0.147	0.333
L395	LTE B4	QPSK20M	20175	50	50	Rear Face	1	Second	1	23	22.31	0.08	0.290	0.167	0.340
L396	LTE B4	QPSK20M	20175	50	50	Left Side	1	Second	1	23	22.31	-0.06	0.091	0.479	0.107
L397	LTE B4	QPSK20M	20175	50	50	Top Side	1	Second	1	23	22.31	0.07	0.426	0.215	0.500
L398	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	2	24	23.62	0.01	0.526	0.269	0.574
L399	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	3	24	23.62	-0.08	**0.610**	**0.316**	**0.666**
L400	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	4	24	23.62	0.05	0.569	0.281	0.621
L401	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	5	24	23.62	0.07	0.526	0.241	0.574

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L412	LTE B5	QPSK10M	20600	1	0	Front Face	1	Main	1	24	23.92	0.07	0.155	0.095	0.158
L413	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	1	24	23.92	0.02	**0.271**	**0.165**	**0.276**
L414	LTE B5	QPSK10M	20600	1	0	Left Side	1	Main	1	24	23.92	-0.02	0.194	0.120	0.198
L415	LTE B5	QPSK10M	20600	1	0	Right Side	1	Main	1	24	23.92	0.06	0.110	0.069	0.112
L416	LTE B5	QPSK10M	20600	1	0	Bottom Side	1	Main	1	24	23.92	0.08	0.141	0.078	0.144
L417	LTE B5	QPSK10M	20600	25	25	Front Face	1	Main	1	23	22.97	0.1	0.109	0.067	0.110
L418	LTE B5	QPSK10M	20600	25	25	Rear Face	1	Main	1	23	22.97	-0.17	0.170	0.106	0.171
L419	LTE B5	QPSK10M	20600	25	25	Left Side	1	Main	1	23	22.97	0.05	0.119	0.076	0.120
L420	LTE B5	QPSK10M	20600	25	25	Right Side	1	Main	1	23	22.97	0.02	0.076	0.048	0.076
L421	LTE B5	QPSK10M	20600	25	25	Bottom Side	1	Main	1	23	22.97	-0.09	0.087	0.047	0.088
L422	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	2	24	23.92	-0.15	0.268	0.162	0.273
L423	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	3	24	23.92	0	0.264	0.156	0.269
L424	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	4	24	23.92	0.02	0.236	0.145	0.240
L425	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	5	24	23.92	-0.04	0.213	0.112	0.217
L436	LTE B5	QPSK10M	20525	1	49	Front Face	1	Second	1	24	23.85	-0.01	0.097	0.070	0.101
L437	LTE B5	QPSK10M	20525	1	49	Rear Face	1	Second	1	24	23.85	0.06	0.126	0.089	0.130
L438	LTE B5	QPSK10M	20525	1	49	Left Side	1	Second	1	24	23.85	-0.05	0.046	0.031	0.047
L439	LTE B5	QPSK10M	20525	1	49	Top Side	1	Second	1	24	23.85	0.02	0.110	0.075	0.114
L440	LTE B5	QPSK10M	20600	25	25	Front Face	1	Second	1	23	22.73	0.07	0.084	0.060	0.089
L441	LTE B5	QPSK10M	20600	25	25	Rear Face	1	Second	1	23	22.73	0.06	0.126	0.088	0.134
L442	LTE B5	QPSK10M	20600	25	25	Left Side	1	Second	1	23	22.73	0.05	0.075	0.035	0.079
L443	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	1	23	22.73	-0.18	0.132	0.081	0.141
L444	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	2	23	22.73	-0.15	**0.133**	**0.075**	**0.142**
L445	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	3	23	22.73	0.09	0.124	0.077	0.132
L446	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	4	23	22.73	0.08	0.127	0.072	0.135
L447	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	5	23	22.73	-0.06	0.129	0.073	0.137

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L458	LTE B7	QPSK20M	21100	1	0	Front Face	1	Main	1	23	22.86	0.04	0.292	0.146	0.302
L459	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	1	23	22.86	0.19	**0.879**	**0.432**	**0.908**
L460	LTE B7	QPSK20M	21100	1	0	Left Side	1	Main	1	23	22.86	-0.03	0.133	0.075	0.137
L461	LTE B7	QPSK20M	21100	1	0	Right Side	1	Main	1	23	22.86	0.04	0.183	0.094	0.189
L462	LTE B7	QPSK20M	21100	1	0	Bottom Side	1	Main	1	23	22.86	0.12	0.814	0.395	0.841
L463	LTE B7	QPSK20M	21100	50	0	Front Face	1	Main	1	22.5	22.40	-0.18	0.246	0.123	0.252
L464	LTE B7	QPSK20M	21100	50	0	Rear Face	1	Main	1	22.5	22.40	0.08	0.834	0.373	0.854
L465	LTE B7	QPSK20M	21100	50	0	Left Side	1	Main	1	22.5	22.40	0.01	0.118	0.066	0.121
L466	LTE B7	QPSK20M	21100	50	0	Right Side	1	Main	1	22.5	22.40	0	0.172	0.086	0.176
L467	LTE B7	QPSK20M	21100	50	0	Bottom Side	1	Main	1	22.5	22.40	0.07	0.870	0.425	0.891
L468	LTE B7	QPSK20M	20850	1	99	Rear Face	1	Main	1	23	22.68	0.02	0.802	0.398	0.863
L469	LTE B7	QPSK20M	21350	1	0	Rear Face	1	Main	1	23	22.55	-0.03	0.811	0.400	0.900
L470	LTE B7	QPSK20M	20850	50	25	Rear Face	1	Main	1	22.5	22.40	0	0.777	0.385	0.795
L471	LTE B7	QPSK20M	21350	50	0	Rear Face	1	Main	1	22.5	22.19	0	0.774	0.369	0.832
L472	LTE B7	QPSK20M	20850	1	99	Bottom Side	1	Main	1	23	22.68	0.12	0.799	0.395	0.860
L473	LTE B7	QPSK20M	21350	1	0	Bottom Side	1	Main	1	23	22.55	0.04	0.807	0.389	0.896
L474	LTE B7	QPSK20M	20850	50	25	Bottom Side	1	Main	1	22.5	22.40	0.08	0.791	0.374	0.810
L475	LTE B7	QPSK20M	21350	50	0	Bottom Side	1	Main	1	22.5	22.19	0.11	0.801	0.368	0.860
L476	LTE B7	QPSK20M	21100	100	0	Rear Face	1	Main	1	22.5	22.45	-0.16	0.780	0.379	0.790
L477	LTE B7	QPSK20M	21100	100	0	Bottom Side	1	Main	1	22.5	22.45	-0.16	0.825	0.390	0.835
L478	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	2	23	22.86	0.03	0.824	0.392	0.851
L479	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	3	23	22.86	-0.15	0.820	0.390	0.847
L480	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	4	23	22.86	-0.06	0.806	0.382	0.832
L481	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	5	23	22.86	0	0.812	0.384	0.838
L482	LTE B7	QPSK20M	21100	1	0	Rear Face (Repeated)	1	Main	1	23	22.86	0.09	0.874	0.433	0.902
L492	LTE B7	QPSK20M	20850	1	0	Front Face	1	Second	1	19	18.90	0.01	0.284	0.129	0.291
L493	LTE B7	QPSK20M	20850	1	0	Rear Face	1	Second	1	19	18.90	0.02	0.532	0.238	0.544
L494	LTE B7	QPSK20M	20850	1	0	Left Side	1	Second	1	19	18.90	0.06	0.156	0.084	0.160
L495	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	1	19	18.90	-0.03	**1.050**	**0.491**	**1.075**
L496	LTE B7	QPSK20M	20850	50	0	Front Face	1	Second	1	19	18.42	0.08	0.270	0.121	0.308
L497	LTE B7	QPSK20M	20850	50	0	Rear Face	1	Second	1	19	18.42	0.02	0.552	0.235	0.631
L498	LTE B7	QPSK20M	20850	50	0	Left Side	1	Second	1	19	18.42	-0.01	0.148	0.077	0.169
L499	LTE B7	QPSK20M	20850	50	0	Top Side	1	Second	1	19	18.42	0.03	0.780	0.333	0.891
L500	LTE B7	QPSK20M	21100	1	0	Top Side	1	Second	1	19	18.81	0.12	0.901	0.400	0.942
L501	LTE B7	QPSK20M	21350	1	99	Top Side	1	Second	1	19	18.64	0	0.613	0.273	0.665
L502	LTE B7	QPSK20M	21100	50	50	Top Side	1	Second	1	19	18.29	-0.03	0.789	0.363	0.929
L503	LTE B7	QPSK20M	21350	50	50	Top Side	1	Second	1	19	18.18	0.06	0.580	0.284	0.700
L504	LTE B7	QPSK20M	20850	100	0	Top Side	1	Second	1	19	18.18	-0.04	0.889	0.451	1.074
L505	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	2	19	18.90	0.05	0.981	0.426	1.004
L506	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	3	19	18.90	0.07	0.978	0.413	1.001
L507	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	4	19	18.90	-0.18	0.908	0.366	0.929
L508	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	5	19	18.90	-0.09	0.913	0.401	0.934
L509	LTE B7	QPSK20M	20850	1	0	Top Side (Repeated)	1	Second	1	19	18.90	-0.04	0.997	0.486	1.020

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L519	LTE B12	QPSK10M	23130	1	0	Front Face	1	Main	1	24	23.76	0.02	0.115	0.091	0.121
L520	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	1	24	23.76	0.05	**0.207**	**0.161**	**0.219**
L521	LTE B12	QPSK10M	23130	1	0	Left Side	1	Main	1	24	23.76	0.09	0.169	0.118	0.178
L522	LTE B12	QPSK10M	23130	1	0	Right Side	1	Main	1	24	23.76	0.04	0.076	0.054	0.080
L523	LTE B12	QPSK10M	23130	1	0	Bottom Side	1	Main	1	24	23.76	0.02	0.070	0.036	0.074
L524	LTE B12	QPSK10M	23060	25	0	Front Face	1	Main	1	23	22.49	0.06	0.082	0.063	0.092
L525	LTE B12	QPSK10M	23060	25	0	Rear Face	1	Main	1	23	22.49	0.07	0.182	0.137	0.205
L526	LTE B12	QPSK10M	23060	25	0	Left Side	1	Main	1	23	22.49	-0.02	0.120	0.087	0.135
L527	LTE B12	QPSK10M	23060	25	0	Right Side	1	Main	1	23	22.49	0.03	0.091	0.065	0.102
L528	LTE B12	QPSK10M	23060	25	0	Bottom Side	1	Main	1	23	22.49	-0.03	0.052	0.027	0.059
L529	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	2	24	23.76	-0.08	0.199	0.157	0.210
L530	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	3	24	23.76	0.09	0.189	0.151	0.200
L531	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	4	24	23.76	-0.12	0.202	0.158	0.213
L532	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	5	24	23.76	0	0.195	0.152	0.206
L543	LTE B12	QPSK10M	23130	1	0	Front Face	1	Second	1	24	23.35	-0.13	0.005	0.003	0.005
L544	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	1	24	23.35	0	**0.006**	**0.004**	**0.007**
L545	LTE B12	QPSK10M	23130	1	0	Left Side	1	Second	1	24	23.35	0.06	0.005	0.004	0.006
L546	LTE B12	QPSK10M	23130	1	0	Top Side	1	Second	1	24	23.35	0.08	0.005	0.001	0.006
L547	LTE B12	QPSK10M	23060	25	0	Front Face	1	Second	1	23	22.20	0.06	0.004	0.003	0.005
L548	LTE B12	QPSK10M	23060	25	0	Rear Face	1	Second	1	23	22.20	-0.07	0.003	0.002	0.004
L549	LTE B12	QPSK10M	23060	25	0	Left Side	1	Second	1	23	22.20	-0.11	0.005	0.002	0.006
L550	LTE B12	QPSK10M	23060	25	0	Top Side	1	Second	1	23	22.20	0.07	0.006	0.001	0.007
L551	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	2	24	23.35	0.02	0.005	0.002	0.006
L552	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	3	24	23.35	-0.03	0.006	0.004	0.007
L553	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	4	24	23.35	0.12	0.005	0.004	0.005
L554	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	5	24	23.35	0.02	0.004	0.002	0.005

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L611	LTE B26	QPSK15M	26765	1	37	Front Face	1	Main	1	24	22.94	0.01	0.070	0.048	0.089
L612	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	1	24	22.94	0.05	**0.131**	**0.081**	**0.167**
L613	LTE B26	QPSK15M	26765	1	37	Left Side	1	Main	1	24	22.94	0.09	0.056	0.040	0.071
L614	LTE B26	QPSK15M	26765	1	37	Right Side	1	Main	1	24	22.94	0.02	0.054	0.039	0.069
L615	LTE B26	QPSK15M	26765	1	37	Bottom Side	1	Main	1	24	22.94	-0.02	0.053	0.031	0.068
L616	LTE B26	QPSK15M	26865	36	0	Front Face	1	Main	1	23	22.56	0.04	0.058	0.039	0.064
L617	LTE B26	QPSK15M	26865	36	0	Rear Face	1	Main	1	23	22.56	0.12	0.103	0.068	0.114
L618	LTE B26	QPSK15M	26865	36	0	Left Side	1	Main	1	23	22.56	0.03	0.057	0.040	0.063
L619	LTE B26	QPSK15M	26865	36	0	Right Side	1	Main	1	23	22.56	-0.04	0.051	0.035	0.057
L620	LTE B26	QPSK15M	26865	36	0	Bottom Side	1	Main	1	23	22.56	0.01	0.018	0.004	0.020
L621	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	2	24	22.94	-0.02	0.109	0.006	0.139
L622	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	3	24	22.94	0.06	0.104	0.004	0.133
L623	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	4	24	22.94	0.12	0.112	0..081	0.143
L624	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	5	24	22.94	-0.05	0.124	0.078	0.158
L635	LTE B26	QPSK15M	26865	1	37	Front Face	1	Second	1	24	23.70	0.01	0.057	0.035	0.061
L636	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	1	24	23.70	-0.16	**0.071**	**0.043**	**0.076**
L637	LTE B26	QPSK15M	26865	1	37	Left Side	1	Second	1	24	23.70	0.18	0.055	0.037	0.059
L638	LTE B26	QPSK15M	26865	1	37	Top Side	1	Second	1	24	23.70	0.01	0.070	0.043	0.075
L639	LTE B26	QPSK15M	26865	36	0	Front Face	1	Second	1	23	22.97	0.07	0.046	0.031	0.046
L640	LTE B26	QPSK15M	26865	36	0	Rear Face	1	Second	1	23	22.97	0.02	0.066	0.042	0.066
L641	LTE B26	QPSK15M	26865	36	0	Left Side	1	Second	1	23	22.97	0.08	0.043	0.029	0.043
L642	LTE B26	QPSK15M	26865	36	0	Top Side	1	Second	1	23	22.97	0.11	0.073	0.047	0.073
L643	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	2	24	23.70	0.06	0.070	0.042	0.075
L644	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	3	24	23.70	0.01	0.062	0.039	0.067
L645	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	4	24	23.70	0.02	0.065	0.044	0.070
L646	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	5	24	23.70	0.05	0.070	0.041	0.074

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L657	LTE B38	QPSK20M	38150	1	99	Front Face	1	Main	1	24	23.32	-0.1	0.098	0.047	0.114
L658	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	1	24	23.32	0.08	**0.772**	**0.374**	**0.903**
L659	LTE B38	QPSK20M	38150	1	99	Left Side	1	Main	1	24	23.32	-0.12	0.128	0.077	0.150
L660	LTE B38	QPSK20M	38150	1	99	Right Side	1	Main	1	24	23.32	0.03	0.144	0.075	0.168
L661	LTE B38	QPSK20M	38150	1	99	Bottom Side	1	Main	1	24	23.32	0.06	0.749	0.371	0.876
L662	LTE B38	QPSK20M	38150	50	50	Front Face	1	Main	1	23	22.82	0.08	0.175	0.091	0.182
L663	LTE B38	QPSK20M	38150	50	50	Rear Face	1	Main	1	23	22.82	-0.05	0.747	0.359	0.779
L664	LTE B38	QPSK20M	38150	50	50	Left Side	1	Main	1	23	22.82	0.06	0.126	0.075	0.131
L665	LTE B38	QPSK20M	38150	50	50	Right Side	1	Main	1	23	22.82	-0.1	0.159	0.070	0.166
L666	LTE B38	QPSK20M	38150	50	50	Bottom Side	1	Main	1	23	22.82	0.03	0.731	0.348	0.762
L625	LTE B38	QPSK20M	38000	1	99	Rear Face	1	Main	1	24	23.13	0.02	0.699	0.347	0.853
L634	LTE B38	QPSK20M	37850	1	99	Rear Face	1	Main	1	24	23.01	-0.01	0.712	0.365	0.894
L647	LTE B38	QPSK20M	38000	1	99	Bottom Side	1	Main	1	24	23.13	0.02	0.668	0.333	0.815
L656	LTE B38	QPSK20M	37850	1	99	Bottom Side	1	Main	1	24	23.01	0.07	0.662	0.331	0.832
L790	LTE B38	QPSK20M	38150	100	0	Rear Face	1	Main	1	23	22.77	0	0.721	0.354	0.760
L791	LTE B38	QPSK20M	38150	100	0	Bottom Side	1	Main	1	23	22.77	0.02	0.671	0.326	0.707
L667	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	2	24	23.32	-0.03	0.659	0.298	0.771
L668	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	3	24	23.32	0.09	0.569	0.289	0.666
L669	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	4	24	23.32	0.07	0.562	0.248	0.658
L670	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	5	24	23.32	0.01	0.578	0.214	0.676
L671	LTE B38	QPSK20M	38150	1	99	Rear Face (Repeated)	1	Main	1	24	23.32	0.11	0.764	0.368	0.894
L681	LTE B38	QPSK20M	38150	1	99	Front Face	1	Second	1	24	22.94	0.01	0.289	0.178	0.369
L682	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Second	1	24	22.94	0.16	0.615	0.331	0.785
L683	LTE B38	QPSK20M	38150	1	99	Left Side	1	Second	1	24	22.94	0.05	0.435	0.248	0.555
L684	LTE B38	QPSK20M	38150	1	99	Top Side	1	Second	1	24	22.94	-0.01	0.619	0.314	0.790
L685	LTE B38	QPSK20M	38150	50	50	Front Face	1	Second	1	23	22.66	0.06	0.272	0.158	0.294
L686	LTE B38	QPSK20M	38150	50	50	Rear Face	1	Second	1	23	22.66	0.04	0.598	0.337	0.647
L687	LTE B38	QPSK20M	38150	50	50	Left Side	1	Second	1	23	22.66	-0.03	0.501	0.286	0.542
L688	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	1	23	22.66	-0.12	**0.757**	**0.329**	**0.819**
L689	LTE B38	QPSK20M	37850	50	50	Top Side	1	Second	1	23	22.32	0.09	0.687	0.269	0.804
L690	LTE B38	QPSK20M	38000	50	50	Top Side	1	Second	1	23	22.34	0.11	0.613	0.254	0.713
T696	LTE B38	QPSK20M	38150	100	0	Top Side	1	Second	1	23	22.61	-0.07	0.738	0.307	0.807
L691	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	2	23	22.66	0.12	0.713	0.321	0.771
L692	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	3	23	22.66	-0.05	0.755	0.330	0.817
L693	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	4	23	22.66	0.01	0.725	0.351	0.784
L694	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	5	23	22.66	0.14	0.746	0.378	0.807
L695	LTE B38	QPSK20M	38150	50	50	Top Side (Repeated)	1	Second	1	23	22.66	-0.14	0.749	0.321	0.810

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L705	LTE B41	QPSK20M	41140	1	99	Front Face	1	Main	1	24	23.92	0.01	0.123	0.060	0.125
L706	LTE B41	QPSK20M	41140	1	99	Rear Face	1	Main	1	24	23.92	0.11	0.655	0.319	0.667
L707	LTE B41	QPSK20M	41140	1	99	Left Side	1	Main	1	24	23.92	0.03	0.139	0.082	0.141
L708	LTE B41	QPSK20M	41140	1	99	Right Side	1	Main	1	24	23.92	-0.07	0.050	0.022	0.051
L709	LTE B41	QPSK20M	41140	1	99	Bottom Side	1	Main	1	24	23.92	0.05	0.749	0.343	0.762
L710	LTE B41	QPSK20M	41140	50	50	Front Face	1	Main	1	23	22.84	0.09	0.175	0.089	0.182
L711	LTE B41	QPSK20M	41140	50	50	Rear Face	1	Main	1	23	22.84	-0.05	0.666	0.319	0.691
L712	LTE B41	QPSK20M	41140	50	50	Left Side	1	Main	1	23	22.84	0.04	0.099	0.062	0.102
L713	LTE B41	QPSK20M	41140	50	50	Right Side	1	Main	1	23	22.84	-0.06	0.079	0.029	0.081
L714	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	1	23	22.84	-0.01	**0.768**	**0.353**	**0.797**
L715	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	2	23	22.84	0.2	0.614	0.264	0.637
L716	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	3	23	22.84	0.05	0.715	0.241	0.742
L717	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	4	23	22.84	0.09	0.725	0.213	0.753
L718	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	5	23	22.84	0.07	0.709	0.209	0.736
L729	LTE B41	QPSK20M	41140	1	99	Front Face	1	Second	1	24	23.49	0.12	0.299	0.184	0.336
L730	LTE B41	QPSK20M	41140	1	99	Rear Face	1	Second	1	24	23.49	0.03	0.586	0.329	0.659
L731	LTE B41	QPSK20M	41140	1	99	Left Side	1	Second	1	24	23.49	0.09	0.478	0.282	0.537
L732	LTE B41	QPSK20M	41140	1	99	Top Side	1	Second	1	24	23.49	0.02	0.590	0.308	0.663
L733	LTE B41	QPSK20M	41140	50	0	Front Face	1	Second	1	23	22.41	-0.02	0.245	0.149	0.280
L734	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	1	23	22.41	0.1	**0.677**	**0.332**	**0.775**
L735	LTE B41	QPSK20M	41140	50	0	Left Side	1	Second	1	23	22.41	-0.12	0.423	0.243	0.484
L736	LTE B41	QPSK20M	41140	50	0	Top Side	1	Second	1	23	22.41	0.07	0.508	0.250	0.581
L737	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	2	23	22.41	0.09	0.635	0.215	0.727
L738	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	3	23	22.41	-0.12	0.612	0.218	0.700
L739	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	4	23	22.41	0.04	0.654	0.318	0.749
L740	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	5	23	22.41	0.02	0.629	0.310	0.720

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
L751	LTE B66	QPSK20M	132322	1	99	Front Face	1	Main	1	23.5	23.45	0	0.290	0.177	0.294
L752	LTE B66	QPSK20M	132322	1	99	Rear Face	1	Main	1	23.5	23.45	0.02	0.462	0.271	0.468
L753	LTE B66	QPSK20M	132322	1	99	Left Side	1	Main	1	23.5	23.45	0.15	0.073	0.045	0.074
L754	LTE B66	QPSK20M	132322	1	99	Right Side	1	Main	1	23.5	23.45	-0.14	0.224	0.135	0.227
L755	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	1	23.5	23.45	-0.17	**0.655**	**0.367**	**0.663**
L756	LTE B66	QPSK20M	132572	50	25	Front Face	1	Main	1	22.5	22.48	0	0.212	0.133	0.213
L757	LTE B66	QPSK20M	132572	50	25	Rear Face	1	Main	1	22.5	22.48	0.05	0.411	0.238	0.413
L758	LTE B66	QPSK20M	132572	50	25	Left Side	1	Main	1	22.5	22.48	-0.14	0.057	0.035	0.058
L759	LTE B66	QPSK20M	132572	50	25	Right Side	1	Main	1	22.5	22.48	0.12	0.196	0.116	0.197
L760	LTE B66	QPSK20M	132572	50	25	Bottom Side	1	Main	1	22.5	22.48	0.08	0.572	0.319	0.575
L761	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	2	23.5	23.45	-0.11	0.637	0.351	0.645
L762	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	3	23.5	23.45	-0.07	0.626	0.345	0.634
L763	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	4	23.5	23.45	0.05	0.640	0.354	0.648
L764	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	5	23.5	23.45	0	0.636	0.350	0.644
L775	LTE B66	QPSK20M	132072	1	99	Front Face	1	Second	1	24	23.67	0.01	0.319	0.168	0.344
L776	LTE B66	QPSK20M	132072	1	99	Rear Face	1	Second	1	24	23.67	0.03	0.377	0.206	0.407
L777	LTE B66	QPSK20M	132072	1	99	Left Side	1	Second	1	24	23.67	0.05	0.082	0.045	0.089
L778	LTE B66	QPSK20M	132072	1	99	Top Side	1	Second	1	24	23.67	0.08	0.488	0.249	0.527
L779	LTE B66	QPSK20M	132572	50	50	Front Face	1	Second	1	23	22.12	-0.02	0.289	0.150	0.354
L780	LTE B66	QPSK20M	132572	50	50	Rear Face	1	Second	1	23	22.12	0.04	0.335	0.182	0.410
L781	LTE B66	QPSK20M	132572	50	50	Left Side	1	Second	1	23	22.12	0.06	0.078	0.043	0.096
L782	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	1	23	22.12	0.01	0.517	0.266	0.633
L783	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	2	23	22.12	0.05	0.516	0.261	0.632
L784	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	3	23	22.12	0.01	0.501	0.210	0.613
L785	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	4	23	22.12	0.02	**0.526**	**0.291**	**0.644**
L786	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	5	23	22.12	0.11	0.512	0.234	0.627

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

4. Hotspot SAR test results of 2.4G WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W51	802.11b	11	Front Face	1	1	1	20	19.87	0.01	0.439	0.221	0.452
W52	802.11b	11	Rear Face	1	1	1	20	19.87	0.03	0.547	0.241	0.564
W53	802.11b	11	Right Side	1	1	1	20	19.87	0.04	0.500	0.234	0.515
W54	802.11b	11	Top Side	1	1	1	20	19.87	-0.11	0.343	0.181	0.353
W55	802.11b	6	Rear Face	1	1	1	20	19.61	0	0.509	0.228	0.557
W56	802.11b	1	Rear Face	1	1	1	20	19.5	0.15	0.436	0.211	0.489
W57	802.11b	11	Rear Face	1	2	1	20	19.87	0	0.552	0.241	0.569
W58	802.11b	11	Rear Face	1	3	1	20	19.87	0.02	0.537	0.235	0.553
W59	802.11b	11	Rear Face	1	4	1	20	19.87	0.06	0.548	0.243	0.565
W60	802.11b	11	Rear Face	1	5	1	20	19.87	-0.05	**0.559**	**0.247**	**0.576**

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

5. Hotspot SAR test results of 5G WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR
W62	802.11a	36	Front Face	1	1	6	12.5	12.45	0.01	0.099	0.035	0.100
W63	802.11a	36	Rear Face	1	1	6	12.5	12.45	0.06	0.449	0.163	0.454
W64	802.11a	36	Right Side	1	1	6	12.5	12.45	-0.12	0.495	0.172	0.501
W65	802.11a	36	Top Side	1	1	6	12.5	12.45	0.02	0.294	0.095	0.297
W66	802.11a	40	Right Side	1	1	6	12.5	12.42	0.15	0.465	0.161	0.474
W67	802.11a	48	Right Side	1	1	6	12.5	12.06	0.16	0.435	0.148	0.481
W68	802.11a	36	Right Side	1	2	6	12.5	12.45	-0.08	0.555	0.174	0.561
W69	802.11a	36	Right Side	1	3	6	12.5	12.45	0	0.510	0.164	0.516
W70	802.11a	36	Right Side	1	4	6	12.5	12.45	0.05	0.537	0.170	0.543
W71	802.11a	36	Right Side	1	5	6	12.5	12.45	-0.02	**0.583**	**0.176**	**0.590**
W120	802.11ac VHT80	155	Front Face	1	1	MCS0	10	9.84	0.06	0.065	0.022	0.068
W121	802.11ac VHT80	155	Rear Face	1	1	MCS0	10	9.84	0	**0.198**	**0.063**	**0.205**
W122	802.11ac VHT80	155	Right Side	1	1	MCS0	10	9.84	0.07	0.184	0.060	0.191
W123	802.11ac VHT80	155	Top Side	1	1	MCS0	10	9.84	0.12	0.082	0.018	0.085
W124	802.11ac VHT80	155	Rear Face	1	2	MCS0	10	9.84	-0.05	0.189	0.073	0.196
W125	802.11ac VHT80	155	Rear Face	1	3	MCS0	10	9.84	-0.01	0.181	0.070	0.188
W126	802.11ac VHT80	155	Rear Face	1	4	MCS0	10	9.84	0.06	0.176	0.066	0.183
W127	802.11ac VHT80	155	Rear Face	1	5	MCS0	10	9.84	0.04	0.172	0.063	0.178

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.

7.2.4 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:

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
G44	GSM 850	GPRS2TX	190	Front Face	1	Main	1	31	29.34	-0.01	0.123	0.065	0.180	YES
G45	GSM 850	GPRS2TX	190	Rear Face	1	Main	1	31	29.34	-0.08	**0.170**	**0.105**	**0.249**	YES
G46	GSM 850	GPRS2TX	190	Left Side	1	Main	1	31	29.34	0.06	0.109	0.051	0.160	YES
G47	GSM 850	GPRS2TX	190	Right Side	1	Main	1	31	29.34	-0.07	0.087	0.032	0.128	YES
G48	GSM 850	GPRS2TX	190	Bottom Side	1	Main	1	31	29.34	0.15	0.134	0.074	0.196	YES
G49	GSM 850	GPRS2TX	190	Rear Face	1	Main	2	31	29.34	0.12	0.161	0.102	0.236	YES
G50	GSM 850	GPRS2TX	190	Rear Face	1	Main	3	31	29.34	0.04	0.149	0.090	0.218	YES
G51	GSM 850	GPRS2TX	190	Rear Face	1	Main	4	31	29.34	-0.12	0.154	0.093	0.226	YES
G52	GSM 850	GPRS2TX	190	Rear Face	1	Main	5	31	29.34	0.02	0.159	0.096	0.233	YES
G61	GSM 850	GPRS2TX	190	Front Face	1	Second	1	31	29.48	0.01	0.096	0.073	0.137	YES
G62	GSM 850	GPRS2TX	190	Rear Face	1	Second	1	31	29.48	-0.18	**0.123**	**0.094**	**0.175**	YES
G63	GSM 850	GPRS2TX	190	Left Side	1	Second	1	31	29.48	0.02	0.064	0.023	0.090	YES
G64	GSM 850	GPRS2TX	190	Top Side	1	Second	1	31	29.48	0.06	0.112	0.078	0.159	YES
G65	GSM 850	GPRS2TX	190	Rear Face	1	Second	2	31	29.48	0.08	0.106	0.089	0.150	YES
G66	GSM 850	GPRS2TX	190	Rear Face	1	Second	3	31	29.48	0.11	0.110	0.087	0.156	YES
G67	GSM 850	GPRS2TX	190	Rear Face	1	Second	4	31	29.48	0.2	0.107	0.078	0.152	YES
G68	GSM 850	GPRS2TX	190	Rear Face	1	Second	5	31	29.48	0.06	0.112	0.092	0.159	YES
G77	GSM 1900	GPRS3TX	661	Front Face	1	Main	1	30.5	29.03	0.01	0.190	0.102	0.267	YES
G78	GSM 1900	GPRS3TX	661	Rear Face	1	Main	1	30.5	29.03	0.06	0.301	0.151	0.422	YES
G79	GSM 1900	GPRS3TX	661	Left Side	1	Main	1	30.5	29.03	0	<0.001	<0.001	<0.001	YES
G80	GSM 1900	GPRS3TX	661	Right Side	1	Main	1	30.5	29.03	-0.02	0.223	0.112	0.313	YES
G81	GSM 1900	GPRS3TX	661	Bottom Side	1	Main	1	30.5	29.03	0.01	**0.391**	**0.193**	**0.549**	YES
G82	GSM 1900	GPRS3TX	661	Bottom Side	1	Main	2	30.5	29.03	0.05	0.383	0.017	0.537	YES
G83	GSM 1900	GPRS3TX	661	Bottom Side	1	Main	3	30.5	29.03	-0.07	0.374	0.178	0.525	YES
G84	GSM 1900	GPRS3TX	661	Bottom Side	1	Main	4	30.5	29.03	0.13	0.387	0.192	0.543	YES
G85	GSM 1900	GPRS3TX	661	Bottom Side	1	Main	5	30.5	29.03	0.05	0.385	0.186	0.540	YES
G94	GSM 1900	GPRS3TX	661	Front Face	1	Second	1	27	25.25	0.06	0.257	0.136	0.385	YES
G95	GSM 1900	GPRS3TX	661	Rear Face	1	Second	1	27	25.25	0.11	0.301	0.167	0.450	YES
G96	GSM 1900	GPRS3TX	661	Left Side	1	Second	1	27	25.25	0.03	0.083	0.048	0.124	YES
G97	GSM 1900	GPRS3TX	661	Top Side	1	Second	1	27	25.25	0.02	**0.398**	**0.201**	**0.596**	YES
G98	GSM 1900	GPRS3TX	661	Top Side	1	Second	2	27	25.25	0.09	0.388	0.198	0.581	YES
G99	GSM 1900	GPRS3TX	661	Top Side	1	Second	3	27	25.25	-0.09	0.393	0.202	0.588	YES
G100	GSM 1900	GPRS3TX	661	Top Side	1	Second	4	27	25.25	0.05	0.369	0.195	0.552	YES
G101	GSM 1900	GPRS3TX	661	Top Side	1	Second	5	27	25.25	0.07	0.326	0.189	0.488	YES

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
U67	UMTS B2	RMC12.2K	9400	Front Face	1	Main	1	21.5	20.85	0.01	0.340	0.178	0.395	YES
U68	UMTS B2	RMC12.2K	9400	Rear Face	1	Main	1	21.5	20.85	0.09	0.562	0.286	0.653	YES
U69	UMTS B2	RMC12.2K	9400	Left Side	1	Main	1	21.5	20.85	-0.05	0.067	0.033	0.077	YES
U70	UMTS B2	RMC12.2K	9400	Right Side	1	Main	1	21.5	20.85	-0.06	0.381	0.195	0.443	YES
U71	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	1	21.5	20.85	0.15	0.664	0.327	0.771	YES
U72	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	2	21.5	20.85	-0.07	0.637	0.310	0.740	YES
U73	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	3	21.5	20.85	0.06	**0.667**	**0.328**	**0.775**	YES
U74	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	4	21.5	20.85	0.12	0.654	0.320	0.760	YES
U75	UMTS B2	RMC12.2K	9400	Bottom Side	1	Main	5	21.5	20.85	0.08	0.649	0.316	0.754	YES
U84	UMTS B2	RMC12.2K	9400	Front Face	1	Second	1	22	21.78	-0.01	0.332	0.185	0.349	YES
U85	UMTS B2	RMC12.2K	9400	Rear Face	1	Second	1	22	21.78	0.06	0.354	0.207	0.372	YES
U86	UMTS B2	RMC12.2K	9400	Left Side	1	Second	1	22	21.78	0.04	0.329	0.068	0.346	YES
U87	UMTS B2	RMC12.2K	9400	Top Side	1	Second	1	22	21.78	-0.01	**0.673**	**0.339**	**0.708**	YES
U88	UMTS B2	RMC12.2K	9400	Top Side	1	Second	2	22	21.78	0.01	0.645	0.336	0.679	YES
U89	UMTS B2	RMC12.2K	9400	Top Side	1	Second	3	22	21.78	-0.16	0.638	0.342	0.671	YES
U90	UMTS B2	RMC12.2K	9400	Top Side	1	Second	4	22	21.78	0.03	0.641	0.370	0.674	YES
U91	UMTS B2	RMC12.2K	9400	Top Side	1	Second	5	22	21.78	0.05	0.650	0.340	0.684	YES
U100	UMTS B4	RMC12.2K	1413	Front Face	1	Main	1	20.5	20.32	-0.06	0.200	0.124	0.208	YES
U101	UMTS B4	RMC12.2K	1413	Rear Face	1	Main	1	20.5	20.32	0	0.380	0.222	0.396	YES
U102	UMTS B4	RMC12.2K	1413	Left Side	1	Main	1	20.5	20.32	0.11	0.052	0.030	0.054	YES
U103	UMTS B4	RMC12.2K	1413	Right Side	1	Main	1	20.5	20.32	0.05	0.130	0.077	0.136	YES
U104	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	1	20.5	20.32	0.01	0.511	0.282	0.533	YES
U105	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	2	20.5	20.32	-0.02	0.505	0.276	0.526	YES
U106	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	3	20.5	20.32	0.05	0.488	0.264	0.509	YES
U107	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	4	20.5	20.32	0.01	**0.559**	**0.301**	**0.583**	YES
U108	UMTS B4	RMC12.2K	1413	Bottom Side	1	Main	5	20.5	20.32	-0.17	0.494	0.266	0.515	YES
U117	UMTS B4	RMC12.2K	1413	Front Face	1	Second	1	21	20.95	-0.03	0.356	0.192	0.360	YES
U118	UMTS B4	RMC12.2K	1413	Rear Face	1	Second	1	21	20.95	-0.06	0.385	0.217	0.389	YES
U119	UMTS B4	RMC12.2K	1413	Left Side	1	Second	1	21	20.95	0.08	0.099	0.056	0.100	YES
U120	UMTS B4	RMC12.2K	1413	Top Side	1	Second	1	21	20.95	-0.01	0.581	0.301	0.588	YES
U121	UMTS B4	RMC12.2K	1413	Top Side	1	Second	2	21	20.95	0.02	0.684	0.320	0.692	YES
U122	UMTS B4	RMC12.2K	1413	Top Side	1	Second	3	21	20.95	0.06	**0.702**	**0.360**	**0.710**	YES
U123	UMTS B4	RMC12.2K	1413	Top Side	1	Second	4	21	20.95	0.08	0.687	0.336	0.695	YES
U124	UMTS B4	RMC12.2K	1413	Top Side	1	Second	5	21	20.95	0.05	0.599	0.314	0.606	YES

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
U133	UMTS B5	RMC12.2K	4182	Front Face	1	Main	1	24	23.22	0.07	0.175	0.118	0.209	YES
U134	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	1	24	23.22	0.02	0.229	0.143	0.274	YES
U135	UMTS B5	RMC12.2K	4182	Left Side	1	Main	1	24	23.22	-0.12	0.172	0.110	0.206	YES
U136	UMTS B5	RMC12.2K	4182	Right Side	1	Main	1	24	23.22	0.12	0.115	0.070	0.138	YES
U137	UMTS B5	RMC12.2K	4182	Bottom Side	1	Main	1	24	23.22	0.15	0.146	0.083	0.175	YES
U138	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	2	24	23.22	0	0.230	0.141	0.275	YES
U139	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	3	24	23.22	0.12	**0.236**	**0.145**	**0.282**	YES
U140	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	4	24	23.22	0.01	0.224	0.130	0.268	YES
U141	UMTS B5	RMC12.2K	4182	Rear Face	1	Main	5	24	23.22	-0.06	0.221	0.129	0.264	YES
U150	UMTS B5	RMC12.2K	4182	Front Face	1	Second	1	24.5	23.43	-0.01	0.077	0.052	0.099	YES
U151	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	1	24.5	23.43	-0.07	0.112	0.072	0.143	YES
U152	UMTS B5	RMC12.2K	4182	Left Side	1	Second	1	24.5	23.43	0.09	0.045	0.032	0.057	YES
U153	UMTS B5	RMC12.2K	4182	Top Side	1	Second	1	24.5	23.43	0.05	0.087	0.053	0.111	YES
U154	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	2	24.5	23.43	0.07	0.102	0.068	0.130	YES
U155	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	3	24.5	23.43	-0.05	**0.115**	**0.073**	**0.147**	YES
U156	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	4	24.5	23.43	0.08	0.111	0.070	0.142	YES
U157	UMTS B5	RMC12.2K	4182	Rear Face	1	Second	5	24.5	23.43	0.04	0.105	0.064	0.134	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L314	LTE B2	QPSK20M	19100	1	0	Front Face	1	Main	1	23	22.88	0.08	0.352	0.199	0.362	YES
L315	LTE B2	QPSK20M	19100	1	0	Rear Face	1	Main	1	23	22.88	0.04	0.607	0.320	0.624	YES
L316	LTE B2	QPSK20M	19100	1	0	Left Side	1	Main	1	23	22.88	-0.06	<0.001	<0.001	<0.001	YES
L317	LTE B2	QPSK20M	19100	1	0	Right Side	1	Main	1	23	22.88	0.07	0.395	0.215	0.406	YES
L318	LTE B2	QPSK20M	19100	1	0	Bottom Side	1	Main	1	23	22.88	0.02	0.579	0.310	0.595	YES
L319	LTE B2	QPSK20M	19100	50	25	Front Face	1	Main	1	23	22.61	0.09	0.336	0.190	0.368	YES
L320	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	1	23	22.61	0.03	**0.573**	**0.301**	**0.627**	YES
L321	LTE B2	QPSK20M	19100	50	25	Left Side	1	Main	1	23	22.61	-0.01	0.065	0.033	0.072	YES
L322	LTE B2	QPSK20M	19100	50	25	Right Side	1	Main	1	23	22.61	-0.17	0.385	0.211	0.421	YES
L323	LTE B2	QPSK20M	19100	50	25	Bottom Side	1	Main	1	23	22.61	-0.02	0.517	0.271	0.566	YES
L324	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	2	23	22.61	0.06	0.571	0.289	0.625	YES
L325	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	3	23	22.61	0.08	0.567	0.291	0.620	YES
L326	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	4	23	22.61	-0.01	0.547	0.259	0.599	YES
L327	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Main	5	23	22.61	0.12	0.512	0.241	0.560	YES
L338	LTE B2	QPSK20M	19100	1	0	Front Face	1	Second	1	23	22.58	-0.02	0.574	0.288	0.632	YES
L339	LTE B2	QPSK20M	19100	1	0	Rear Face	1	Second	1	23	22.58	0.03	0.677	0.343	0.746	YES
L340	LTE B2	QPSK20M	19100	1	0	Left Side	1	Second	1	23	22.58	0.06	0.219	0.112	0.241	YES
L341	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	1	23	22.58	-0.05	0.789	0.373	0.869	YES
L342	LTE B2	QPSK20M	19100	50	25	Front Face	1	Second	1	22.5	21.99	-0.02	0.601	0.300	0.676	YES
L343	LTE B2	QPSK20M	19100	50	25	Rear Face	1	Second	1	22.5	21.99	0.07	0.701	0.370	0.789	YES
L344	LTE B2	QPSK20M	19100	50	25	Left Side	1	Second	1	22.5	21.99	0.11	0.243	0.122	0.273	YES
L345	LTE B2	QPSK20M	19100	50	25	Top Side	1	Second	1	22.5	21.99	0.0.8	0.770	0.362	0.866	YES
L346	LTE B2	QPSK20M	18700	1	0	Top Side	1	Second	1	23	22.54	0.09	0.759	0.386	0.843	YES
L347	LTE B2	QPSK20M	18900	1	0	Top Side	1	Second	1	23	22.56	0.02	0.624	0.298	0.691	YES
L348	LTE B2	QPSK20M	18900	50	25	Top Side	1	Second	1	22.5	21.88	0.1	0.612	0.291	0.705	YES
L349	LTE B2	QPSK20M	18700	50	0	Top Side	1	Second	1	22.5	21.87	0.03	0.678	0.346	0.783	YES
L350	LTE B2	QPSK20M	19100	100	0	Top Side	1	Second	1	22.5	21.87	0.02	0.743	0.412	0.859	YES
L351	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	2	23	22.58	0.06	0.774	0.406	0.852	YES
L352	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	3	23	22.58	0.03	**0.791**	**0.379**	**0.871**	YES
L353	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	4	23	22.58	0.05	0.768	0.329	0.846	YES
L354	LTE B2	QPSK20M	19100	1	0	Top Side	1	Second	5	23	22.58	0.07	0.748	0.356	0.824	YES
L355	LTE B2	QPSK20M	19100	1	0	Top Side(Repeated)	1	Second	3	23	22.58	0.04	0.789	0.384	0.869	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L365	LTE B4	QPSK20M	20175	1	99	Front Face	1	Main	1	23.5	23.32	0	0.276	0.171	0.288	YES
L366	LTE B4	QPSK20M	20175	1	99	Rear Face	1	Main	1	23.5	23.32	0.02	0.464	0.274	0.483	YES
L367	LTE B4	QPSK20M	20175	1	99	Left Side	1	Main	1	23.5	23.32	0	0.066	0.040	0.069	YES
L368	LTE B4	QPSK20M	20175	1	99	Right Side	1	Main	1	23.5	23.32	-0.15	0.180	0.110	0.188	YES
L369	LTE B4	QPSK20M	20175	1	99	Bottom Side	1	Main	1	23.5	23.32	0.17	0.070	0.358	0.072	YES
L370	LTE B4	QPSK20M	20300	50	50	Front Face	1	Main	1	23.5	22.49	-0.11	0.222	0.133	0.280	YES
L371	LTE B4	QPSK20M	20300	50	50	Rear Face	1	Main	1	23.5	22.49	0.06	0.370	0.222	0.467	YES
L372	LTE B4	QPSK20M	20300	50	50	Left Side	1	Main	1	23.5	22.49	0.08	0.054	0.032	0.067	YES
L373	LTE B4	QPSK20M	20300	50	50	Right Side	1	Main	1	23.5	22.49	-0.13	0.178	0.105	0.225	YES
L374	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	1	23.5	22.49	-0.03	**0.484**	**0.270**	**0.611**	YES
L375	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	2	23.5	22.49	0.14	0.447	0.260	0.564	YES
L376	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	3	23.5	22.49	0	0.462	0.264	0.583	YES
L377	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	4	23.5	22.49	-0.06	0.471	0.266	0.594	YES
L378	LTE B4	QPSK20M	20300	50	50	Bottom Side	1	Main	5	23.5	22.49	0.14	0.454	0.235	0.573	YES
L390	LTE B4	QPSK20M	20050	1	99	Front Face	1	Second	1	24	23.62	-0.07	0.347	0.181	0.379	YES
L391	LTE B4	QPSK20M	20050	1	99	Rear Face	1	Second	1	24	23.62	0.05	0.363	0.200	0.396	YES
L392	LTE B4	QPSK20M	20050	1	99	Left Side	1	Second	1	24	23.62	-0.01	0.089	0.050	0.097	YES
L393	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	1	24	23.62	-0.06	0.570	0.293	0.622	YES
L394	LTE B4	QPSK20M	20175	50	50	Front Face	1	Second	1	23	22.31	0.01	0.284	0.147	0.333	YES
L395	LTE B4	QPSK20M	20175	50	50	Rear Face	1	Second	1	23	22.31	0.08	0.290	0.167	0.340	YES
L396	LTE B4	QPSK20M	20175	50	50	Left Side	1	Second	1	23	22.31	-0.06	0.091	0.479	0.107	YES
L397	LTE B4	QPSK20M	20175	50	50	Top Side	1	Second	1	23	22.31	0.07	0.426	0.215	0.500	YES
L398	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	2	24	23.62	0.01	0.526	0.269	0.574	YES
L399	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	3	24	23.62	-0.08	**0.610**	**0.316**	**0.666**	YES
L400	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	4	24	23.62	0.05	0.569	0.281	0.621	YES
L401	LTE B4	QPSK20M	20050	1	99	Top Side	1	Second	5	24	23.62	0.07	0.526	0.241	0.574	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L412	LTE B5	QPSK10M	20600	1	0	Front Face	1	Main	1	24	23.92	0.07	0.155	0.095	0.158	YES
L413	LTE B5	QPSK10M	20600	1	0	Rear Face	1	Main	1	24	23.92	0.02	**0.271**	**0.165**	**0.276**	YES
L414	LTE B5	QPSK10M	20600	1	0	Left Side	1	Main	1	24	23.92	-0.02	0.194	0.120	0.198	YES
L415	LTE B5	QPSK10M	20600	1	0	Right Side	1	Main	1	24	23.92	0.06	0.110	0.069	0.112	YES
L416	LTE B5	QPSK10M	20600	1	0	Bottom Side	1	Main	1	24	23.92	0.08	0.141	0.078	0.144	YES
L417	LTE B5	QPSK10M	20600	25	25	Front Face	1	Main	1	23	22.97	0.1	0.109	0.067	0.110	YES
L418	LTE B5	QPSK10M	20600	25	25	Rear Face	1	Main	1	23	22.97	-0.17	0.170	0.106	0.171	YES
L419	LTE B5	QPSK10M	20600	25	25	Left Side	1	Main	1	23	22.97	0.05	0.119	0.076	0.120	YES
L420	LTE B5	QPSK10M	20600	25	25	Right Side	1	Main	1	23	22.97	0.02	0.076	0.048	0.076	YES
L421	LTE B5	QPSK10M	20600	25	25	Bottom Side	1	Main	1	23	22.97	-0.09	0.087	0.047	0.088	YES
L422	LTE B5	QPSK10M	20600	1	49	Rear Face	1	Main	2	24	23.92	-0.15	0.268	0.162	0.273	YES
L423	LTE B5	QPSK10M	20600	1	49	Rear Face	1	Main	3	24	23.92	0.08	0.264	0.156	0.269	YES
L424	LTE B5	QPSK10M	20600	1	49	Rear Face	1	Main	4	24	23.92	-0.04	0.236	0.145	0.240	YES
L425	LTE B5	QPSK10M	20600	1	49	Rear Face	1	Main	5	24	23.92	0.13	0.213	0.112	0.217	YES
L436	LTE B5	QPSK10M	20525	1	49	Front Face	1	Second	1	24	23.85	-0.01	0.097	0.070	0.101	YES
L437	LTE B5	QPSK10M	20525	1	49	Rear Face	1	Second	1	24	23.85	0.06	0.126	0.089	0.130	YES
L438	LTE B5	QPSK10M	20525	1	49	Left Side	1	Second	1	24	23.85	-0.05	0.046	0.031	0.047	YES
L439	LTE B5	QPSK10M	20525	1	49	Top Side	1	Second	1	24	23.85	0.02	0.110	0.075	0.114	YES
L440	LTE B5	QPSK10M	20600	25	25	Front Face	1	Second	1	23	22.73	0.07	0.084	0.060	0.089	YES
L441	LTE B5	QPSK10M	20600	25	25	Rear Face	1	Second	1	23	22.73	0.06	0.126	0.088	0.134	YES
L442	LTE B5	QPSK10M	20600	25	25	Left Side	1	Second	1	23	22.73	0.05	0.075	0.035	0.079	YES
L443	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	1	23	22.73	-0.18	0.132	0.081	0.141	YES
L444	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	2	23	22.73	-0.15	**0.133**	**0.075**	**0.142**	YES
L445	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	3	23	22.73	0.09	0.124	0.077	0.132	YES
L446	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	4	23	22.73	0.08	0.127	0.072	0.135	YES
L447	LTE B5	QPSK10M	20600	25	25	Top Side	1	Second	5	23	22.73	-0.06	0.129	0.073	0.137	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Batt ery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L458	LTE B7	QPSK20M	21100	1	0	Front Face	1	Main	1	23	22.86	0.04	0.292	0.146	0.302	YES
L459	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	1	23	22.86	0.19	**1.070**	**0.532**	**1.105**	YES
L460	LTE B7	QPSK20M	21100	1	0	Left Side	1	Main	1	23	22.86	-0.03	0.133	0.075	0.137	YES
L461	LTE B7	QPSK20M	21100	1	0	Right Side	1	Main	1	23	22.86	0.04	0.183	0.094	0.189	YES
L462	LTE B7	QPSK20M	21100	1	0	Bottom Side	1	Main	1	23	22.86	0.12	0.884	0.433	0.913	YES
L463	LTE B7	QPSK20M	21100	50	0	Front Face	1	Main	1	22.5	22.40	-0.18	0.246	0.123	0.252	YES
L464	LTE B7	QPSK20M	21100	50	0	Rear Face	1	Main	1	22.5	22.40	0.08	0.905	0.409	0.927	YES
L465	LTE B7	QPSK20M	21100	50	0	Left Side	1	Main	1	22.5	22.40	0.01	0.118	0.066	0.121	YES
L466	LTE B7	QPSK20M	21100	50	0	Right Side	1	Main	1	22.5	22.40	0	0.172	0.086	0.176	YES
L467	LTE B7	QPSK20M	21100	50	0	Bottom Side	1	Main	1	22.5	22.40	0.07	0.870	0.425	0.891	YES
L468	LTE B7	QPSK20M	20850	1	99	Rear Face	1	Main	1	23	22.68	0.02	0.945	0.478	1.018	YES
L469	LTE B7	QPSK20M	21350	1	0	Rear Face	1	Main	1	23	22.55	-0.03	0.956	0.481	1.061	YES
L470	LTE B7	QPSK20M	20850	50	25	Rear Face	1	Main	1	22.5	22.40	0	0.916	0.463	0.938	YES
L471	LTE B7	QPSK20M	21350	50	0	Rear Face	1	Main	1	22.5	22.19	0	0.913	0.444	0.981	YES
L472	LTE B7	QPSK20M	20850	1	99	Bottom Side	1	Main	1	23	22.68	0.12	0.942	0.475	1.014	YES
L473	LTE B7	QPSK20M	21350	1	0	Bottom Side	1	Main	1	23	22.55	0.04	0.951	0.468	1.056	YES
L474	LTE B7	QPSK20M	20850	50	25	Bottom Side	1	Main	1	22.5	22.40	0.08	0.933	0.450	0.955	YES
L475	LTE B7	QPSK20M	21350	50	0	Bottom Side	1	Main	1	22.5	22.19	0.11	0.944	0.442	1.014	YES
L476	LTE B7	QPSK20M	21100	100	0	Rear Face	1	Main	1			-0.16	0.920	0.456	0.000	YES
L477	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	2	23	22.86	0.03	0.971	0.471	1.003	YES
L478	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	3	23	22.86	-0.15	0.967	0.469	0.999	YES
L479	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	4	23	22.86	-0.06	0.950	0.459	0.981	YES
L480	LTE B7	QPSK20M	21100	1	0	Rear Face	1	Main	5	23	22.86	0	0.957	0.462	0.988	YES
L481	LTE B7	QPSK20M	21100	1	0	Rear Face (Repeated)	1	Main	1	23	22.86	0.09	1.030	0.521	1.064	YES
L492	LTE B7	QPSK20M	20850	1	0	Front Face	1	Second	1	19	18.90	0.01	0.284	0.129	0.291	YES
L493	LTE B7	QPSK20M	20850	1	0	Rear Face	1	Second	1	19	18.90	0.02	0.532	0.238	0.544	YES
L494	LTE B7	QPSK20M	20850	1	0	Left Side	1	Second	1	19	18.90	0.06	0.156	0.084	0.160	YES
L495	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	1	19	18.90	-0.03	**1.050**	**0.491**	**1.075**	YES
L496	LTE B7	QPSK20M	20850	50	0	Front Face	1	Second	1	19	18.22	0.08	0.270	0.121	0.323	YES
L497	LTE B7	QPSK20M	20850	50	0	Rear Face	1	Second	1	19	18.22	0.02	0.552	0.235	0.660	YES
L498	LTE B7	QPSK20M	20850	50	0	Left Side	1	Second	1	19	18.22	-0.01	0.148	0.077	0.177	YES
L499	LTE B7	QPSK20M	20850	50	0	Top Side	1	Second	1	19	18.22	0.03	0.780	0.333	0.933	YES
L500	LTE B7	QPSK20M	21100	1	0	Top Side	1	Second	1	19	18.81	0.12	0.901	0.400	0.942	YES
L501	LTE B7	QPSK20M	21350	1	99	Top Side	1	Second	1	19	18.64	0	0.613	0.273	0.665	YES
L502	LTE B7	QPSK20M	21100	50	50	Top Side	1	Second	1	19	18.09	-0.03	0.789	0.363	0.972	YES
L503	LTE B7	QPSK20M	21350	50	50	Top Side	1	Second	1	19	17.98	0.06	0.580	0.284	0.733	YES
L504	LTE B7	QPSK20M	20850	100	0	Top Side	1	Second	1	19	18.18	-0.04	0.889	0.451	1.074	YES
L505	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	2	19	18.90	0.05	0.981	0.426	1.004	YES
L506	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	3	19	18.90	0.07	0.978	0.413	1.001	YES
L507	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	4	19	18.90	-0.18	0.908	0.366	0.929	YES
L508	LTE B7	QPSK20M	20850	1	0	Top Side	1	Second	5	19	18.90	-0.09	0.913	0.401	0.934	YES
L509	LTE B7	QPSK20M	20850	1	0	Top Side (Repeated)	1	Second	1	19	18.90	-0.04	0.997	0.486	1.020	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L519	LTE B12	QPSK10M	23130	1	0	Front Face	1	Main	1	24	23.76	0.02	0.115	0.091	0.121	YES
L520	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	1	24	23.76	0.05	**0.207**	**0.161**	**0.219**	YES
L521	LTE B12	QPSK10M	23130	1	0	Left Side	1	Main	1	24	23.76	0.09	0.169	0.118	0.178	YES
L522	LTE B12	QPSK10M	23130	1	0	Right Side	1	Main	1	24	23.76	0.04	0.076	0.054	0.080	YES
L523	LTE B12	QPSK10M	23130	1	0	Bottom Side	1	Main	1	24	23.76	0.02	0.070	0.036	0.074	YES
L524	LTE B12	QPSK10M	23060	25	0	Front Face	1	Main	1	23	22.49	0.06	0.082	0.063	0.092	YES
L525	LTE B12	QPSK10M	23060	25	0	Rear Face	1	Main	1	23	22.49	0.07	0.182	0.137	0.205	YES
L526	LTE B12	QPSK10M	23060	25	0	Left Side	1	Main	1	23	22.49	-0.02	0.120	0.087	0.135	YES
L527	LTE B12	QPSK10M	23060	25	0	Right Side	1	Main	1	23	22.49	0.03	0.091	0.065	0.102	YES
L528	LTE B12	QPSK10M	23060	25	0	Bottom Side	1	Main	1	23	22.49	-0.03	0.052	0.027	0.059	YES
L529	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	2	24	23.76	-0.08	0.199	0.157	0.210	YES
L530	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	3	24	23.76	0.09	0.189	0.151	0.200	YES
L531	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	4	24	23.76	-0.12	0.202	0.158	0.213	YES
L532	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Main	5	24	23.76	0	0.195	0.152	0.206	YES
L543	LTE B12	QPSK10M	23130	1	0	Front Face	1	Second	1	24	23.35	-0.13	0.005	0.003	0.005	YES
L544	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	1	24	23.35	0	**0.006**	**0.004**	**0.007**	YES
L545	LTE B12	QPSK10M	23130	1	0	Left Side	1	Second	1	24	23.35	0.06	0.051	0.004	0.059	YES
L546	LTE B12	QPSK10M	23130	1	0	Top Side	1	Second	1	24	23.35	0.08	0.005	0.001	0.006	YES
L547	LTE B12	QPSK10M	23060	25	0	Front Face	1	Second	1	23	22.20	0.06	0.004	0.003	0.005	YES
L548	LTE B12	QPSK10M	23060	25	0	Rear Face	1	Second	1	23	22.20	-0.07	0.003	0.002	0.004	YES
L549	LTE B12	QPSK10M	23060	25	0	Left Side	1	Second	1	23	22.20	-0.11	0.005	0.002	0.006	YES
L550	LTE B12	QPSK10M	23060	25	0	Top Side	1	Second	1	23	22.20	0.07	0.006	0.001	0.007	YES
L551	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	2	24	23.35	0.02	0.005	0.002	0.006	YES
L552	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	3	24	23.35	-0.03	0.006	0.004	0.007	YES
L553	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	4	24	23.35	0.12	0.005	0.004	0.005	YES
L554	LTE B12	QPSK10M	23130	1	0	Rear Face	1	Second	5	24	23.35	0.02	0.004	0.002	0.005	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L611	LTE B26	QPSK15M	26765	1	37	Front Face	1	Main	1	24	22.94	0.01	0.070	0.048	0.089	YES
L612	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	1	24	22.94	0.05	**0.131**	**0.081**	**0.167**	YES
L613	LTE B26	QPSK15M	26765	1	37	Left Side	1	Main	1	24	22.94	0.09	0.056	0.040	0.071	YES
L614	LTE B26	QPSK15M	26765	1	37	Right Side	1	Main	1	24	22.94	0.02	0.054	0.039	0.069	YES
L615	LTE B26	QPSK15M	26765	1	37	Bottom Side	1	Main	1	24	22.94	-0.02	0.053	0.031	0.068	YES
L616	LTE B26	QPSK15M	26865	36	0	Front Face	1	Main	1	23	22.56	0.04	0.058	0.039	0.064	YES
L617	LTE B26	QPSK15M	26865	36	0	Rear Face	1	Main	1	23	22.56	0.12	0.103	0.068	0.114	YES
L618	LTE B26	QPSK15M	26865	36	0	Left Side	1	Main	1	23	22.56	0.03	0.057	0.040	0.063	YES
L619	LTE B26	QPSK15M	26865	36	0	Right Side	1	Main	1	23	22.56	-0.04	0.001	0.001	0.001	YES
L620	LTE B26	QPSK15M	26865	36	0	Bottom Side	1	Main	1	23	22.56	0.01	0.018	0.004	0.020	YES
L621	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	2	24	22.94	-0.02	0.109	0.006	0.139	YES
L622	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	3	24	22.94	0.06	0.104	0.004	0.133	YES
L623	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	4	24	22.94	0.12	0.112	0..081	0.143	YES
L624	LTE B26	QPSK15M	26765	1	37	Rear Face	1	Main	5	24	22.94	-0.05	0.124	0.078	0.158	YES
L635	LTE B26	QPSK15M	26865	1	37	Front Face	1	Second	1	24	23.70	0.01	0.057	0.035	0.061	YES
L636	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	1	24	23.70	-0.16	**0.071**	**0.043**	**0.076**	YES
L637	LTE B26	QPSK15M	26865	1	37	Left Side	1	Second	1	24	23.70	0.18	0.055	0.037	0.059	YES
L638	LTE B26	QPSK15M	26865	1	37	Top Side	1	Second	1	24	23.70	0.01	0.070	0.043	0.075	YES
L639	LTE B26	QPSK15M	26865	36	0	Front Face	1	Second	1	23	22.97	0.07	0.046	0.031	0.046	YES
L640	LTE B26	QPSK15M	26865	36	0	Rear Face	1	Second	1	23	22.97	0.02	0.066	0.042	0.066	YES
L641	LTE B26	QPSK15M	26865	36	0	Left Side	1	Second	1	23	22.97	0.08	0.043	0.029	0.043	YES
L642	LTE B26	QPSK15M	26865	36	0	Top Side	1	Second	1	23	22.97	0.11	0.073	0.047	0.073	YES
L643	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	2	24	23.70	0.06	0.070	0.042	0.075	YES
L644	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	3	24	23.70	0.01	0.062	0.039	0.067	YES
L645	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	4	24	23.70	0.02	0.065	0.044	0.070	YES
L646	LTE B26	QPSK15M	26865	1	37	Rear Face	1	Second	5	24	23.70	0.05	0.070	0.041	0.074	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L657	LTE B38	QPSK20M	38150	1	99	Front Face	1	Main	1	24	23.32	-0.1	0.098	0.047	0.114	YES
L658	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	1	24	23.32	0.08	**0.772**	**0.374**	**0.903**	YES
L659	LTE B38	QPSK20M	38150	1	99	Left Side	1	Main	1	24	23.32	-0.12	0.128	0.077	0.150	YES
L660	LTE B38	QPSK20M	38150	1	99	Right Side	1	Main	1	24	23.32	0.03	0.144	0.075	0.168	YES
L661	LTE B38	QPSK20M	38150	1	99	Bottom Side	1	Main	1	24	23.32	0.06	0.749	0.371	0.876	YES
L662	LTE B38	QPSK20M	38150	50	50	Front Face	1	Main	1	23	22.82	0.08	0.175	0.091	0.182	YES
L663	LTE B38	QPSK20M	38150	50	50	Rear Face	1	Main	1	23	22.82	-0.05	0.747	0.359	0.779	YES
L664	LTE B38	QPSK20M	38150	50	50	Left Side	1	Main	1	23	22.82	0.06	0.126	0.075	0.131	YES
L665	LTE B38	QPSK20M	38150	50	50	Right Side	1	Main	1	23	22.82	-0.1	0.013	0.070	0.013	YES
L666	LTE B38	QPSK20M	38150	50	50	Bottom Side	1	Main	1	23	22.82	0.03	0.731	0.348	0.762	YES
L667	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	2	24	23.32	-0.03	0.659	0.298	0.771	YES
L668	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	3	24	23.32	0.09	0.569	0.289	0.666	YES
L669	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	4	24	23.32	0.07	0.562	0.248	0.658	YES
L670	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Main	5	24	23.32	0.01	0.578	0.214	0.676	YES
L671	LTE B38	QPSK20M	38150	1	99	Rear Face (Repeated)	1	Main	1	24	23.32	0.11	0.764	0.368	0.894	YES
L681	LTE B38	QPSK20M	38150	1	99	Front Face	1	Second	1	24	22.94	0.01	0.289	0.178	0.369	YES
L682	LTE B38	QPSK20M	38150	1	99	Rear Face	1	Second	1	24	22.94	0.16	0.615	0.331	0.785	YES
L683	LTE B38	QPSK20M	38150	1	99	Left Side	1	Second	1	24	22.94	0.05	0.435	0.248	0.555	YES
L684	LTE B38	QPSK20M	38150	1	99	Top Side	1	Second	1	24	22.94	-0.01	0.619	0.314	0.790	YES
L685	LTE B38	QPSK20M	38150	50	50	Front Face	1	Second	1	23	22.66	0.06	0.272	0.158	0.294	YES
L686	LTE B38	QPSK20M	38150	50	50	Rear Face	1	Second	1	23	22.66	0.04	0.598	0.337	0.647	YES
L687	LTE B38	QPSK20M	38150	50	50	Left Side	1	Second	1	23	22.66	-0.03	0.501	0.286	0.542	YES
L688	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	1	23	22.66	-0.12	**0.757**	**0.329**	**0.819**	YES
L689	LTE B38	QPSK20M	37850	50	50	Top Side	1	Second	1	23	22.32	0.09	0.687	0.269	0.804	YES
L690	LTE B38	QPSK20M	38000	50	50	Top Side	1	Second	1	23	22.34	0.11	0.613	0.254	0.713	YES
L691	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	2	23	22.66	0.12	0.713	0.321	0.771	YES
L692	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	3	23	22.66	-0.05	0.755	0.330	0.817	YES
L693	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	4	23	22.66	0.01	0.725	0.351	0.784	YES
L694	LTE B38	QPSK20M	38150	50	50	Top Side	1	Second	5	23	22.66	0.14	0.746	0.378	0.807	YES
L695	LTE B38	QPSK20M	38150	50	50	Top Side (Repeated)	1	Second	1	23	22.66	-0.14	0.749	0.321	0.810	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L705	LTE B41	QPSK20M	41140	1	99	Front Face	1	Main	1	24	23.92	0.01	0.123	0.060	0.125	YES
L706	LTE B41	QPSK20M	41140	1	99	Rear Face	1	Main	1	24	23.92	0.11	0.655	0.319	0.667	YES
L707	LTE B41	QPSK20M	41140	1	99	Left Side	1	Main	1	24	23.92	0.03	0.139	0.082	0.141	YES
L708	LTE B41	QPSK20M	41140	1	99	Right Side	1	Main	1	24	23.92	-0.07	0.050	0.022	0.051	YES
L709	LTE B41	QPSK20M	41140	1	99	Bottom Side	1	Main	1	24	23.92	0.05	0.749	0.343	0.762	YES
L710	LTE B41	QPSK20M	41140	50	50	Front Face	1	Main	1	23	22.84	0.09	0.175	0.089	0.182	YES
L711	LTE B41	QPSK20M	41140	50	50	Rear Face	1	Main	1	23	22.84	-0.05	0.666	0.319	0.691	YES
L712	LTE B41	QPSK20M	41140	50	50	Left Side	1	Main	1	23	22.84	0.04	0.099	0.062	0.102	YES
L713	LTE B41	QPSK20M	41140	50	50	Right Side	1	Main	1	23	22.84	-0.06	0.079	0.029	0.081	YES
L714	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	1	23	22.84	-0.01	**0.768**	**0.353**	**0.797**	YES
L715	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	2	23	22.84	0.2	0.614	0.264	0.637	YES
L716	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	3	23	22.84	0.05	0.715	0.241	0.742	YES
L717	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	4	23	22.84	0.09	0.725	0.213	0.753	YES
L718	LTE B41	QPSK20M	41140	50	50	Bottom Side	1	Main	5	23	22.84	0.07	0.709	0.209	0.736	YES
L729	LTE B41	QPSK20M	41140	1	99	Front Face	1	Second	1	24	23.49	0.12	0.299	0.184	0.336	YES
L730	LTE B41	QPSK20M	41140	1	99	Rear Face	1	Second	1	24	23.49	0.03	0.586	0.329	0.659	YES
L731	LTE B41	QPSK20M	41140	1	99	Left Side	1	Second	1	24	23.49	0.09	0.478	0.282	0.537	YES
L732	LTE B41	QPSK20M	41140	1	99	Top Side	1	Second	1	24	23.49	0.02	0.590	0.308	0.663	YES
L733	LTE B41	QPSK20M	41140	50	0	Front Face	1	Second	1	23	22.41	-0.02	0.245	0.149	0.280	YES
L734	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	1	23	22.41	0.1	**0.677**	**0.332**	**0.775**	YES
L735	LTE B41	QPSK20M	41140	50	0	Left Side	1	Second	1	23	22.41	-0.12	0.423	0.243	0.484	YES
L736	LTE B41	QPSK20M	41140	50	0	Top Side	1	Second	1	23	22.41	0.07	0.508	0.250	0.581	YES
L737	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	2	23	22.41	0.09	0.635	0.215	0.727	YES
L738	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	3	23	22.41	-0.12	0.612	0.218	0.700	YES
L739	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	4	23	22.41	0.04	0.654	0.318	0.749	YES
L740	LTE B41	QPSK20M	41140	50	0	Rear Face	1	Second	5	23	22.41	0.02	0.629	0.310	0.720	YES

Test No.	Band	Mode	Channel	RB	off set	Test Position	Separation Distance (cm)	Ant	Battery	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
L751	LTE B66	QPSK20M	132322	1	99	Front Face	1	Main	1	23.5	23.45	0	0.290	0.177	0.294	YES
L752	LTE B66	QPSK20M	132322	1	99	Rear Face	1	Main	1	23.5	23.45	0.02	0.462	0.271	0.468	YES
L753	LTE B66	QPSK20M	132322	1	99	Left Side	1	Main	1	23.5	23.45	0.15	0.073	0.045	0.074	YES
L754	LTE B66	QPSK20M	132322	1	99	Right Side	1	Main	1	23.5	23.45	-0.14	0.224	0.135	0.227	YES
L755	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	1	23.5	23.45	-0.17	**0.655**	**0.367**	**0.663**	YES
L756	LTE B66	QPSK20M	132572	50	25	Front Face	1	Main	1	22.5	22.50	0	0.212	0.133	0.212	YES
L757	LTE B66	QPSK20M	132572	50	25	Rear Face	1	Main	1	22.5	22.50	0.05	0.411	0.238	0.411	YES
L758	LTE B66	QPSK20M	132572	50	25	Left Side	1	Main	1	22.5	22.50	-0.14	0.057	0.035	0.057	YES
L759	LTE B66	QPSK20M	132572	50	25	Right Side	1	Main	1	22.5	22.50	0.12	0.196	0.116	0.196	YES
L760	LTE B66	QPSK20M	132572	50	25	Bottom Side	1	Main	1	22.5	22.50	0.08	0.572	0.319	0.573	YES
L761	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	2	23.5	23.45	-0.11	0.637	0.351	0.645	YES
L762	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	3	23.5	23.45	-0.07	0.626	0.345	0.634	YES
L763	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	4	23.5	23.45	0.05	0.640	0.354	0.648	YES
L764	LTE B66	QPSK20M	132322	1	99	Bottom Side	1	Main	5	23.5	23.45	0	0.636	0.350	0.644	YES
L775	LTE B66	QPSK20M	132072	1	99	Front Face	1	Second	1	24	23.67	0.01	0.319	0.168	0.344	YES
L776	LTE B66	QPSK20M	132072	1	99	Rear Face	1	Second	1	24	23.67	0.03	0.377	0.206	0.407	YES
L777	LTE B66	QPSK20M	132072	1	99	Left Side	1	Second	1	24	23.67	0.05	0.082	0.045	0.089	YES
L778	LTE B66	QPSK20M	132072	1	99	Top Side	1	Second	1	24	23.67	0.08	0.488	0.249	0.527	YES
L779	LTE B66	QPSK20M	132572	50	50	Front Face	1	Second	1	23	22.12	-0.02	0.289	0.150	0.354	YES
L780	LTE B66	QPSK20M	132572	50	50	Rear Face	1	Second	1	23	22.12	0.04	0.335	0.182	0.410	YES
L781	LTE B66	QPSK20M	132572	50	50	Left Side	1	Second	1	23	22.12	0.06	0.078	0.043	0.096	YES
L782	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	1	23	22.12	0.01	0.517	0.266	0.633	YES
L783	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	2	23	22.12	0.05	0.516	0.261	0.632	YES
L784	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	3	23	22.12	0.01	0.501	0.210	0.613	YES
L785	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	4	23	22.12	0.03	**0.527**	**0.269**	**0.646**	YES
L786	LTE B66	QPSK20M	132572	50	50	Top Side	1	Second	5	23	22.12	0.11	0.512	0.234	0.627	YES

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 1g SAR	product specific 10-g SAR Exclusion
W51	802.11b	11	Front Face	1	1	1	20	19.87	0.01	0.439	0.221	0.452	YES
W52	802.11b	11	Rear Face	1	1	1	20	19.87	0.03	0.587	0.278	0.605	YES
W53	802.11b	11	Right Side	1	1	1	20	19.87	0.04	0.500	0.234	0.515	YES
W54	802.11b	11	Top Side	1	1	1	20	19.87	-0.11	0.343	0.181	0.353	YES
W55	802.11b	6	Rear Face	1	1	1	20	19.61	0	0.530	0.253	0.580	YES
W56	802.11b	1	Rear Face	1	1	1	20	19.5	0.15	0.436	0.211	0.489	YES
W57	802.11b	11	Rear Face	1	2	1	20	19.87	0	0.582	0.277	0.600	YES
W58	802.11b	11	Rear Face	1	3	1	20	19.87	0.02	0.587	0.278	0.605	YES
W59	802.11b	11	Rear Face	1	4	1	20	19.87	0.06	0.588	0.283	0.606	YES
W60	802.11b	11	Rear Face	1	5	1	20	19.87	-0.05	**0.610**	**0.294**	**0.629**	YES
W62	802.11a	36	Front Face	1	1	6	12.5	12.45	0.01	0.099	0.035	0.100	YES
W63	802.11a	36	Rear Face	1	1	6	12.5	12.45	0.06	0.449	0.163	0.454	YES
W64	802.11a	36	Right Side	1	1	6	12.5	12.45	-0.12	0.495	0.172	0.501	YES
W65	802.11a	36	Top Side	1	1	6	12.5	12.45	0.02	0.294	0.095	0.297	YES
W66	802.11a	40	Right Side	1	1	6	12.5	12.42	0.15	0.465	0.161	0.474	YES
W67	802.11a	48	Right Side	1	1	6	12.5	12.06	0.16	0.435	0.148	0.481	YES
W68	802.11a	36	Right Side	1	2	6	12.5	12.45	-0.08	0.555	0.174	0.561	YES
W69	802.11a	36	Right Side	1	3	6	12.5	12.45	0	0.510	0.164	0.516	YES
W70	802.11a	36	Right Side	1	4	6	12.5	12.45	0.05	0.537	0.170	0.543	YES
W71	802.11a	36	Right Side	1	5	6	12.5	12.45	-0.02	**0.583**	**0.176**	**0.590**	YES
W120	802.11ac VHT80	155	Front Face	1	1	MCS0	10	9.84	0.06	0.065	0.022	0.068	YES
W121	802.11ac VHT80	155	Rear Face	1	1	MCS0	10	9.84	0	**0.198**	**0.063**	**0.205**	YES
W122	802.11ac VHT80	155	Right Side	1	1	MCS0	10	9.84	0.07	0.184	0.060	0.191	YES
W123	802.11ac VHT80	155	Top Side	1	1	MCS0	10	9.84	0.12	0.082	0.018	0.085	YES
W124	802.11ac VHT80	155	Rear Face	1	2	MCS0	10	9.84	-0.05	0.189	0.073	0.196	YES
W125	802.11ac VHT80	155	Rear Face	1	3	MCS0	10	9.84	-0.01	0.181	0.070	0.188	YES
W126	802.11ac VHT80	155	Rear Face	1	4	MCS0	10	9.84	0.06	0.176	0.066	0.183	YES
W127	802.11ac VHT80	155	Rear Face	1	5	MCS0	10	9.84	0.04	0.172	0.063	0.178	YES

Product specific 10-g SAR test results of WiFi

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Battery	Data Rate	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	SAR 10g (W/kg)	Reported 10g SAR
W82	802.11a	60	Front Face	0	1	6	12.5	12.25	-0.05	0.603	0.181	0.192
W83	802.11a	60	Rear Face	0	1	6	12.5	12.25	0.12	0.744	0.305	0.323
W84	802.11a	60	Right Side	0	1	6	12.5	12.25	0.09	2.640	0.556	0.589
W85	802.11a	60	Top Side	0	1	6	12.5	12.25	0.2	0.217	0.087	0.092
W86	802.11a	56	Right Side	0	1	6	12.5	12.22	0.06	2.750	0.582	0.621
W87	802.11a	52	Right Side	0	1	6	12.5	12.09	0.09	2.230	0.574	0.631
W88	802.11a	52	Right Side	0	2	6	12.5	12.09	0.04	2.550	0.586	0.644
W89	802.11a	52	Right Side	0	3	6	12.5	12.09	-0.07	2.630	0.601	0.661
W90	802.11a	52	Right Side	0	4	6	12.5	12.09	0.02	**2.930**	**0.621**	**0.682**
W91	802.11a	52	Right Side	0	5	6	12.5	12.09	0.03	2.350	0.611	0.671
W102	802.11a	140	Front Face	0	1	6	12.5	12.42	0.05	0.456	0.123	0.125
W103	802.11a	140	Rear Face	0	1	6	12.5	12.42	0.03	1.190	0.377	0.384
W104	802.11a	140	Right Side	0	1	6	12.5	12.42	0.12	2.310	0.479	0.488
W105	802.11a	140	Top Side	0	1	6	12.5	12.42	0.01	0.248	0.101	0.103
W106	802.11a	116	Right Side	0	1	6	12.5	12.21	0.06	1.810	0.368	0.393
W107	802.11a	112	Right Side	0	1	6	12.5	12.2	0	1.360	0.305	0.327
W108	802.11a	140	Right Side	0	2	6	12.5	12.42	-0.08	2.360	0.543	0.553
W109	802.11a	140	Right Side	0	3	6	12.5	12.42	0.04	2.520	0.505	0.514
W110	802.11a	140	Right Side	0	4	6	12.5	12.42	-0.09	2.580	0.518	0.528
W111	802.11a	140	Right Side	0	5	6	12.5	12.42	0.15	**2.770**	**0.560**	**0.570**

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

7.3 MULTIPLE TRANSMITTER EVALUATION

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to FCC KDB 447498D01 General RF Exposure Guidance v06.

The location of the antenna inside EUT, please refer to Appendix E.

7.3.1 SIMULTANEOUS TRANSMISSION CONDITIONS

Per FCC KDB 447498 D01, 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 (15mm)	Hotspot (10mm)	Product specific 10-g (0mm)
1	GSM/UMTS/LTE(Main Ant) + 2.4G WIFI	Yes	Yes	Yes	Yes
2	GSM/UMTS/LTE(Main Ant) + 5G WIFI	Yes	Yes	Yes	Yes
3	GSM/UMTS/LTE(Main Ant) + BT	Yes	Yes	No	Yes
4	GSM/UMTS/LTE(Second Ant) + 2.4G WIFI	Yes	Yes	Yes	Yes
5	GSM/UMTS/LTE(Second Ant) + 5G WIFI	Yes	Yes	Yes	Yes
6	GSM/UMTS/LTE(Second Ant) + BT	Yes	Yes	No	Yes

Note:
1) 2G&3G&4G share the same Tx antenna and can’t transmit simultaneously.
2) WiFi and Bluetooth share the same Tx antenna and can’t transmit simultaneously.
3) Main Ant and Second Ant can’t transmit simultaneously.

7.3.2 SAR SUMMATION SCENARIO

1. About BT/WIFI and GSM/UMTS/LTE main antenna

Position	Head				Body-worn		Hotspot					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face (1.5cm)	Rear Face (1.5cm)	Front Face (1cm)	Rear Face (1cm)	Left Side (1cm)	Right Side (1cm)	Top Side (1cm)	Bottom Side (1cm)
GSM 850	0.140	0.095	0.134	0.075	0.123	0.187	0.180	0.249	0.160	0.128	/	0.196
GSM 1900	<0.001	<0.001	0.003	<0.001	0.233	0.253	0.267	0.422	<0.001	0.313	/	0.549
UMTS B2	0.115	0.074	0.093	0.062	0.226	0.353	0.395	0.653	0.077	0.443	/	0.771
UMTS B4	0.057	0.053	0.099	0.034	0.224	0.393	0.208	0.396	0.054	0.136	/	0.583
UMTS B5	0.158	0.079	0.186	0.086	0.144	0.208	0.209	0.282	0.206	0.138	/	0.175
LTE B2	0.026	0.020	0.022	0.015	0.209	0.320	0.368	0.627	0.072	0.421	/	0.595
LTE B4	0.078	0.072	0.109	0.066	0.148	0.217	0.288	0.483	0.069	0.225	/	0.611
LTE B5	0.157	0.071	0.162	0.097	0.191	0.200	0.158	0.276	0.198	0.112	/	0.144
LTE B7	0.068	0.080	0.080	0.091	0.151	0.492	0.302	0.908	0.137	0.189	/	0.896
LTE B12	0.111	0.056	0.083	0.049	0.133	0.222	0.121	0.219	0.178	0.102	/	0.074
LTE B17	/	/	/	/	/	/	/	/	/	/	/	/
LTE B26	0.118	0.061	0.137	0.081	0.128	0.143	0.089	0.167	0.071	0.069	/	0.068
LTE B38	0.026	0.056	0.022	0.023	0.168	0.576	0.182	0.903	0.150	0.168	/	0.876
LTE B41	0.017	0.036	0.025	0.023	0.127	0.574	0.182	0.691	0.141	0.081	/	0.797
LTE B66	0.094	0.063	0.116	0.059	0.138	0.241	0.294	0.468	0.074	0.227	/	0.663
802.11b/g	0.124	0.118	0.268	0.140	0.253	0.361	0.452	0.576	/	0.515	0.353	/
5.2G	/	/	/	/	/	/	0.100	0.454	/	0.590	0.297	/
5.3G	0.083	0.109	0.267	0.218	0.223	0.679	/	/	/	/	/	/
5.5G	0.074	0.077	0.212	0.080	/	/	/	/	/	/	/	/
5.6G	/	/	/	/	0.416	0.746	/	/	/	/	/	/
5.8G	0.054	0.057	0.086	0.130	0.209	0.463	0.068	0.205	/	0.191	0.085	/
Bluetooth	0.112	0.110	0.229	0.147	0.021	0.056	/	/	/	/	/	/
Max. SAR Summation	**0.282**	**0.213**	**0.454**	**0.315**	**0.649**	**1.322**	**0.847**	**1.484**	**0.206**	**1.033**	**0.353**	**0.896**

Note: MAX. $\sum SAR_{1g}$ =1.484 W/Kg <1.6W/Kg, so the SAR to peak location separation ratio should not be considered.

2. About BT/WIFI and GSM/UMTS/LTE second antenna

Position	Head				Bodyworn		Hotspot					
	Right Cheek	Right Tilted	Left Cheek	Left Tilted	Front Face (1.5cm)	Rear Face (1.5cm)	Front Face (1cm)	Rear Face (1cm)	Left Side (1cm)	Right Side (1cm)	Top Side (1cm)	Bottom Side (1cm)
GSM 850	0.786	0.498	0.558	0.455	0.135	0.155	0.137	0.175	0.090	/	0.159	/
GSM 1900	0.013	0.013	0.098	0.090	<0.001	<0.001	0.385	0.450	0.124	/	0.596	/
UMTS B2	0.618	0.928	0.382	0.449	0.232	0.283	0.349	0.372	0.346	/	0.718	/
UMTS B4	0.464	0.736	0.264	0.410	0.175	0.228	0.360	0.389	0.100	/	0.710	/
UMTS B5	1.067	0.492	0.444	0.381	0.070	0.085	0.099	0.147	0.057	/	0.111	/
LTE B2	0.931	0.934	0.515	0.663	0.299	0.542	0.676	0.789	0.273	/	0.871	/
LTE B4	1.032	1.058	0.554	0.779	0.171	0.196	0.379	0.396	0.107	/	0.666	/
LTE B5	0.561	0.421	0.406	0.355	0.090	0.095	0.101	0.134	0.079	/	0.142	/
LTE B7	1.068	1.073	0.557	0.798	0.375	0.684	0.308	0.631	0.169	/	1.075	/
LTE B12	0.020	0.023	0.016	0.012	0.006	0.007	0.005	0.007	0.006	/	0.007	/
LTE B17	/	/	/	/	/	/	/	/	/	/	/	/
LTE B26	0.383	0.286	0.273	0.225	0.035	0.038	0.061	0.076	0.059	/	0.075	/
LTE B38	0.493	0.693	0.149	0.199	0.341	0.569	0.369	0.785	0.555	/	0.819	/
LTE B41	0.469	0.479	0.150	0.210	0.349	0.523	0.336	0.775	0.537	/	0.663	/
LTE B66	0.711	0.799	0.424	0.580	0.178	0.218	0.354	0.410	0.096	/	0.644	/
802.11b/g	0.124	0.118	0.268	0.140	0.253	0.361	0.452	0.576	/	0.515	0.353	/
5.2G	/	/	/	/	/	/	0.100	0.454	/	0.590	0.297	/
5.3G	0.083	0.109	0.267	0.218	0.223	0.679	/	/	/	/	/	/
5.5G	0.074	0.077	0.212	0.080	/	/	/	/	/	/	/	/
5.6G	/	/	/	/	0.416	0.746	/	/	/	/	/	/
5.8G	0.054	0.057	0.086	0.130	0.209	0.463	0.068	0.205	/	0.191	0.085	/
Bluetooth	0.112	0.110	0.229	0.147	0.021	0.056	/	/	/	/	/	/
Max. SAR Summation	**1.192**	**1.191**	**0.826**	**1.016**	**0.791**	**1.430**	**1.128**	**1.365**	**0.555**	**0.590**	**1.428**	**0.000**

Note: MAX. $\sum SAR_{1g}$ =1.430W/Kg <1.6W/Kg, so the SAR to peak location separation ratio should not be considered.

3. About product specific 10g SAR

Position	Specific 10g SAR					
	Front Face (0cm)	Rear Face (0cm)	Left Side (0cm)	Right Side (0cm)	Top Side (0cm)	Bottom Side (0cm)
GSM 850	/	/	/	/	/	/
GSM 1900	/	/	/	/	/	/
UMTS B2	/	/	/	/	/	/
UMTS B4	/	/	/	/	/	/
UMTS B5	/	/	/	/	/	/
LTE B2	/	/	/	/	/	/
LTE B4	/	/	/	/	/	/
LTE B5	/	/	/	/	/	/
LTE B7	/	/	/	/	/	/
LTE B12	/	/	/	/	/	/
LTE B26	/	/	/	/	/	/
LTE B38	/	/	/	/	/	/
LTE B41	/	/	/	/	/	/
LTE B66	/	/	/	/	/	/
WiFi 2.4G	/	/	/	/	/	/
WiFi 5.2G	/	/	/	/	/	/
WiFi 5.3G	0.192	0.323	/	0.682	0.092	/
WiFi 5.6G	0.125	0.384	/	0.570	0.103	/
WiFi 5.8G	/	/	/	/	/	/
BT	/	/	/	/	/	/
Max. SAR Summation	0.192	0.384	0.000	0.682	0.103	0.000

Note:
The Simultaneous SAR of product Specific 10-g SAR is 0.682W/Kg which less than 4.0W/Kg, so the Simultaneous SAR is not required to calculate.

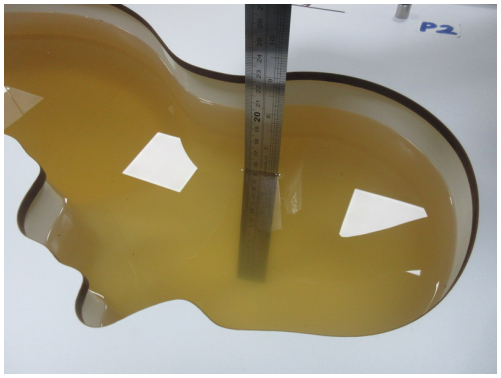
APPENDIX

1. TEST LAYOUT

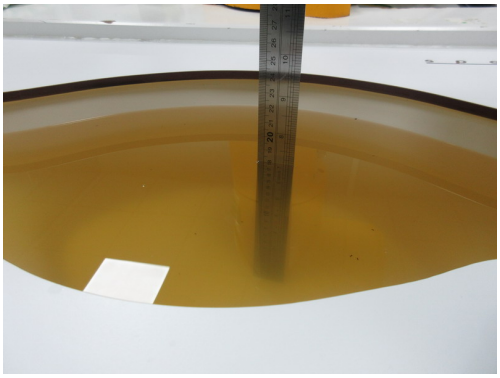
Specific Absorption Rate Test Layout

Liquid depth in the flat Phantom (≥15cm depth)

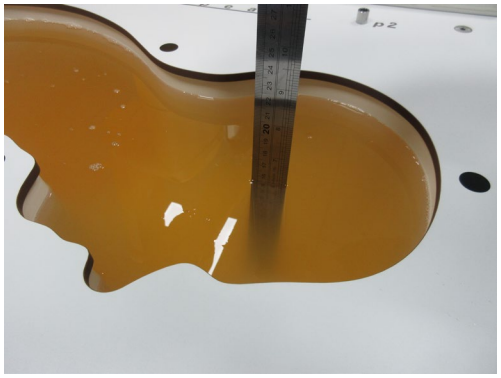
HSL750_Head_15.5cm



HSL750_Body_18.1cm



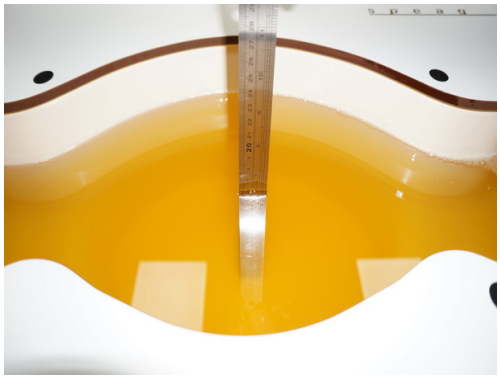
HSL810-920_Head_15.6cm



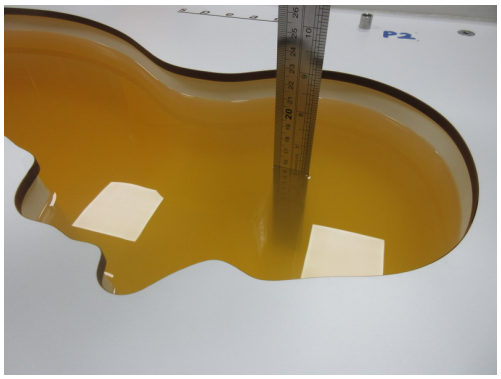
HSL810-920_Body_18.8cm

HSL1700-1900_Head_15.5cm

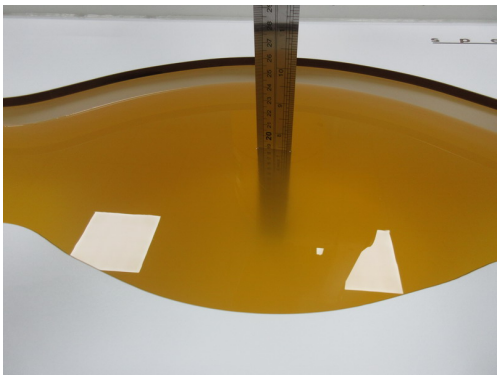
HSL1700-1900_Body_16.2cm



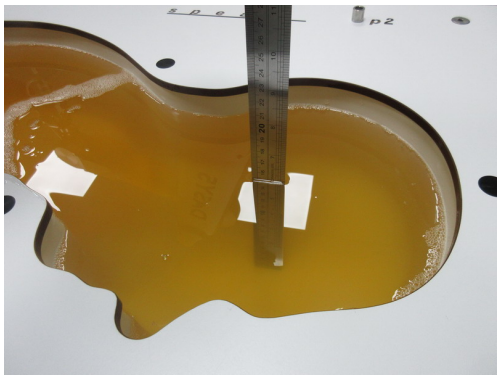
HSL1900-2300_Head_15.5cm



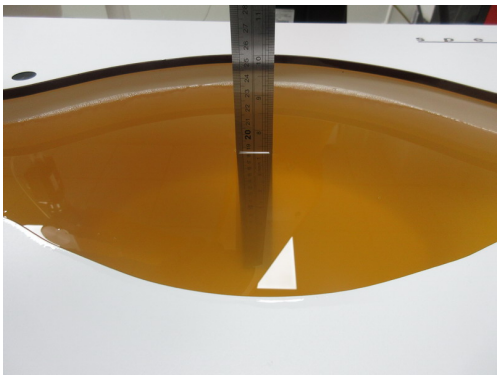
HSL1900-2300_Body_18.8cm



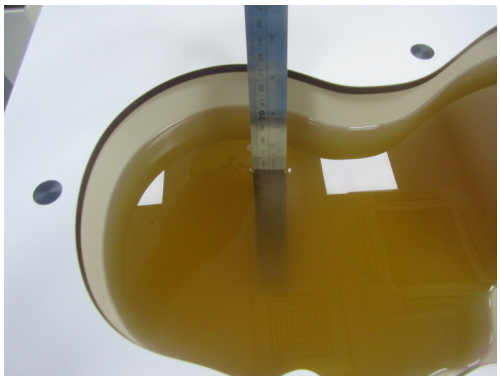
HSL2300-2700_Head_15.35cm



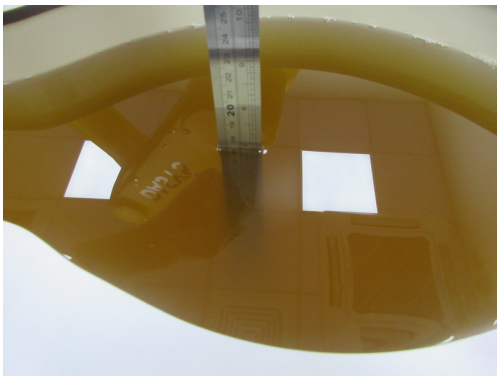
HSL2300-2700_Body_18.5cm



HSL5G_Head_15.6cm



HSL5G_Body_17.5cm



Appendix A. SAR Plots of System Verification

(Pls See BTL-FCC SAR-1-2006C121_Appendix A.)

Appendix B. SAR Plots of SAR Measurement

(Pls See BTL-FCC SAR-1-2006C121_Appendix B.)

Appendix C. Calibration Certificate

(Pls See BTL-FCC SAR-1-2006C121_Appendix C.)

Appendix D. Photographs of the Test Set-Up

(Pls See BTL-FCC SAR-1-2006C121_Appendix D.)

Appendix E. Antenna location

(Pls See BTL-FCC SAR-1-2006C121_Appendix E.)

End of Test Report