



SAR EVALUATION REPORT

**FCC 47 CFR § 2.1093
IEEE Std 1528-2013**

For
Cellular Phone with Bluetooth and WLAN Radios

**FCC ID: BCG-E2946A
Model Name: A1633, A1688, A1691, A1700**

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Prepared for
**APPLE, INC.
1 INFINITE LOOP, MS 26A
CUPERTINO, CA 95014-2084**

Prepared by
**UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



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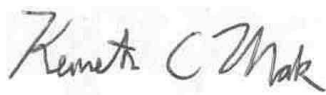
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1. Attestation of Test Results

Applicant Name	APPLE, INC.				
FCC ID	BCG-E2946A				
Model Name	A1633, A1688, A1691, A1700				
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013				
SAR Limits (W/Kg)					
Exposure Category	Peak spatial-average(1g of tissue)				
General population / Uncontrolled exposure	1.6				
The Highest Reported SAR (W/kg)					
RF Exposure Conditions		Equipment Class			
		Licensed	DTS	U-NII	DSS (BT)
Head		1.140	0.990	0.991	0.449
Body-worn		1.140	0.905	1.120	0.376
Hotspot		1.140	0.905	1.120	N/A
Simultaneous TX		1.580	1.522	1.580	1.580
Simultaneous TX	Head	1.576	1.511	1.576	1.576
	Body-worn	1.580	1.522	1.580	1.580
	Hotspot	1.580	1.522	1.580	N/A
Date Tested	6/8/2015 to 7/9/2015; 7/27/2015 to 7/28/2015				
Test Results	Pass				
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.					
Approved & Released By:		Prepared By:			
					
Bobby Bayani Senior Engineer UL Verification Services Inc.		Kenneth C. Mak Laboratory Engineer UL Verification Services Inc.			

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, the following FCC Published RF exposure [KDB](#) procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r01
- 447498 D01 General RF Exposure Guidance v05r02
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r02
- 690783 D01 SAR Listings on Grants v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r03
- 865664 D02 RF Exposure Reporting v01r01
- 941225 D01 3G SAR Procedures v03
- 941225 D05 SAR for LTE Devices v02r03
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r01
- 941225 D06 Hotspot Mode v02

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

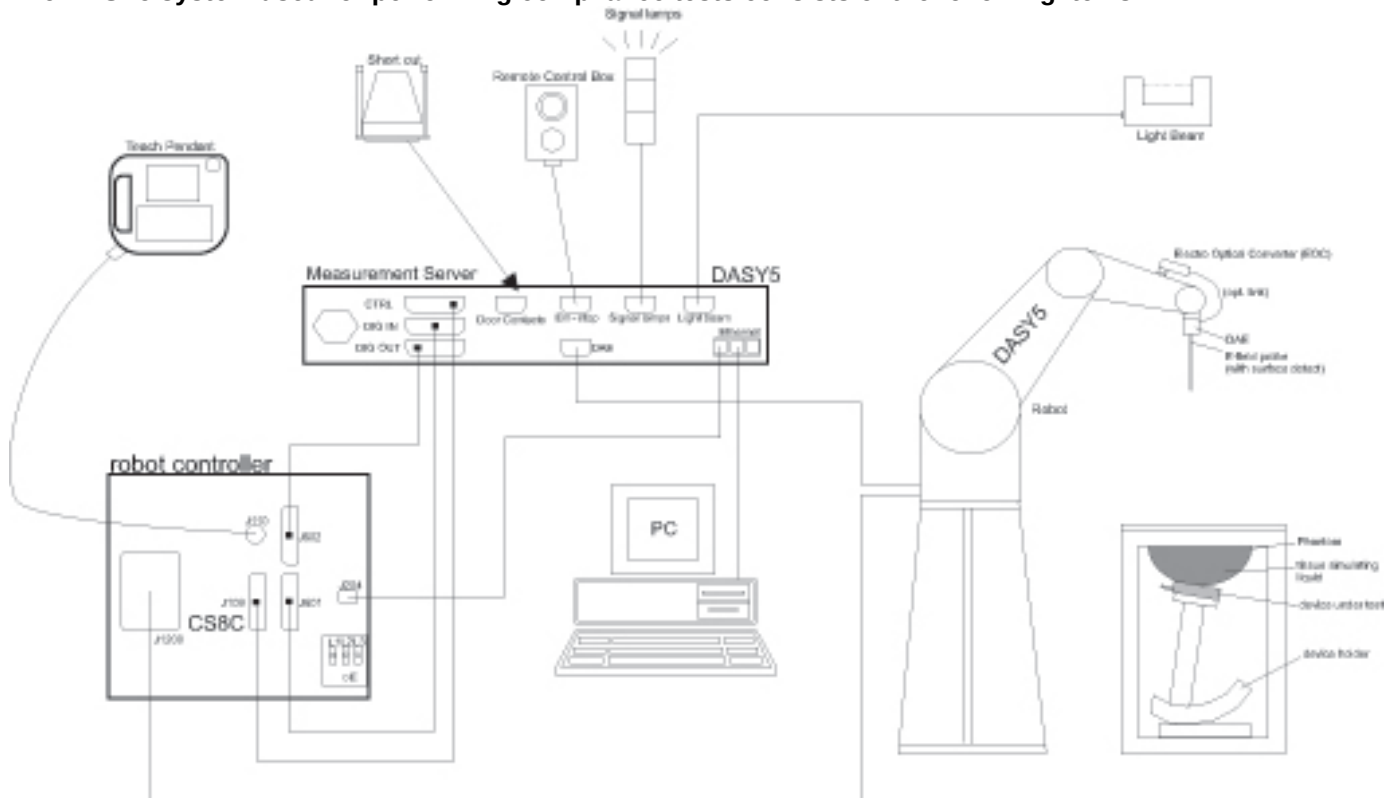
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	
SAR Lab G	
SAR Lab H	

UL Verification Services Inc. is accredited by [NVLAP](#), Laboratory Code 200065-0.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power drift measurement

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

Step 5: Z-Scan (FCC only)

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	8753ES	MY40001647	7/17/2015
Dielectric Probe kit	SPEAG	DAK-3.5	1087	11/11/2015
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Traceable Calibration Control Co.	4242	122529162	10/8/2015
Network Analyzer	Agilent	E753ES	MY40000980	4/17/2016
Dielectric Probe kit	SPEAG	DAK-3.5	1082	9/16/2015
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Control Company	Traceable	122529163	10/8/2015

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	HP	8665B	1000622	5/8/2016
Power Meter	Agilent	N1912A	MY50001018	9/3/2015
Power Sensor	Agilent	E9323A	US40411556	8/27/2015
Power Sensor	Agilent	E9323A	MY53070007	3/2/2016
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	AMETEK	XT 15-4	1319A02778	N/A
Synthesized Signal Generator	HP	8665B	3744A01155	3/18/2016
Power Meter	HP	437B	3125U11364	8/27/2015
Power Meter	HP	437B	3125U12345	8/15/2015
Power Sensor	HP	8481A	1926A27048	8/15/2015
Power Sensor	HP	8481A	2702A76223	9/17/2015
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2141	N/A
DC Power Supply	BK PRECISION	1611	215-02292	N/A
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3901	1/27/2016
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3751	11/14/2015
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3885	9/15/2015
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3772	2/23/2016
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	7356	4/22/2016
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3686	2/23/2016
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3991	5/19/2016
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7335	3/13/2016
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1357	2/20/2016
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1360	3/12/2016
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE3	427	1/14/2016
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1257	9/29/2015
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1359	2/18/2016
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1433	3/12/2016
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1472	3/5/2016
System Validation Dipole	SPEAG	D750V3	1019	3/11/2016
System Validation Dipole	SPEAG	D750V3	1024	5/12/2016
System Validation Dipole	SPEAG	D835V2	4d002	11/13/2015
System Validation Dipole	SPEAG	D1750V2	1050	4/15/2016
System Validation Dipole	SPEAG	D1750V2	1077	9/11/2015
System Validation Dipole	SPEAG	D1900V2	5d043	11/7/2015
System Validation Dipole	SPEAG	D2300V2	1002	3/13/2016
System Validation Dipole	SPEAG	D2450V2	899	3/13/2016
System Validation Dipole	SPEAG	D2600V2	1006	9/10/2015
System Validation Dipole	SPEAG	D5GHzV2	1168	12/4/2015
System Validation Dipole	SPEAG	D5GHzV2	1138	9/18/2015
System Validation Dipole	SPEAG	D5GHzV2	1003	2/20/2016

Other

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Agilent	N1912A	MY53040016	3/26/2016
Power Meter	Agilent	N1912A	MY53040015	2/27/2016
Power Sensor	Agilent	N1921A	MY52270022	12/12/2015
Power Sensor	Agilent	N1921A	MY52260001	10/11/2015
Base Station Simulator	R & S	CMU200	106301	11/7/2015
Base Station Simulator	R & S	CMW500	112269	4/6/2016
Base Station Simulator	R & S	CMW500	112268	4/2/2016
Base Station Simulator	R & S	CMW500	137877	7/28/2015
Base Station Simulator	R & S	CMW500	104245	1/14/2016
Base Station Simulator	R & S	CMW500	134854	4/28/2016
Base Station Simulator	R & S	CMW500	135390	4/6/2016
Base Station Simulator	R & S	CMW500	134853	6/30/2016
Base Station Simulator	R & S	CMW500	124594	10/15/2015

5. Measurement Uncertainty

Per KDB 865664 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.

6. Device Under Test (DUT) Information

6.1. DUT Description

The device is the next generation iPhone.

For operational and marketing reasons, there will be four models: A1633, A1688, A1691 and A1700.

All models are mobile phones with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1x Advanced/EVDO Rev.A /WCDMA/HSPA+/DC-HSDPA/HSUPA, LTE FDD/TDD & Carrier Aggregation / TD-SCDMA, VoLTE radio, IEEE 802.11a/b/g/n/ac radio 2x2 MIMO, Bluetooth radio and NFC. The rechargeable battery is not user accessible.

All models have identical PCB layout, design and functionality except A1633 has Tx and Rx filter for Band 30.

Model A1633 was set as the primary model for testing.

This device has two antennas. The Primary Cellular Antenna (LAT) is located on the bottom edge of the device and the Secondary Cellular Antenna (UAT) is located on the top edge of the device.

The device is capable of switching between the LAT and UAT based on signal strength.

The antenna switching is implemented with a physical, “break-before-make” switch such that only one antenna can be used for cellular transmission at a time.

There are two vendors of the Wi-Fi/Bluetooth radio modules: Variant 1 and Variant 2 and they have the same mechanical outline, same on board antenna, matching circuit, antenna structure and same specification. Complete SAR evaluation is performed on Variant 1 that has the highest SAR, and then, the test is repeated for the other variant at the highest peak SAR value.

Device Dimension	Overall (Length x Width): 138.1 mm x 67 mm Overall Diagonal: 147 mm Display Diagonal: 120 mm
Back Cover	The rechargeable battery is not user accessible.
Battery Options	The rechargeable battery is not user accessible.
Accessory	Headset
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its cellular data connection with other Wi-Fi-enabled devices. ☒ Mobile Hotspot (Wi-Fi 2.4 GHz) ☐ Mobile Hotspot (Wi-Fi 5 GHz)
AirPlay	AirPlay mode enabled devices transfer data directly between each other ☒ AirPlay (Wi-Fi 2.4 GHz) ☒ AirPlay (Wi-Fi 5 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EGPRS (8PSK)	GPRS Multi-Slot Class: ☐ Class 8 - 1 Up, 4 Down ☒ Class 10 - 2 Up, 4 Down ☐ Class 12 - 4 Up, 4 Down ☐ Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25%
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No			
CDMA (CDMA2000)	BC0 BC1 BC10 BC15	1xRTT (Voice & Data) 1xEV-DO Rel. 0 1xEV-DO Rev. A 1xAdvanced		100%
	Does this device support SV-DO (1xRTT-1xEVDO)? ☐ Yes ☒ No			
W-CDMA (UMTS)	Band II Band IV Band V	UMTS Rel. 99 (Voice & Data) HSDPA (Rel. 5) HSUPA (Rel. 6) DC-HSDPA (Rel. 8) HSPA+ (Rel. 7)		100%
LTE	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 27 FDD Band 30 TDD Band 41	QPSK 16QAM ☐ Rel. 10 Does not support Carrier Aggregation (CA) ☒ Rel. 10 Carrier Aggregation (1 Uplink and 2 Downlinks) ☐ Rel. 11 Carrier Aggregation (2 Uplink and 2 Downlinks)		100% (FDD) 63.3% (TDD)
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
Wi-Fi	2.4 GHz	802.11b 802.11g 802.11n (HT20)		100%
	5 GHz	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80)		100%
	Does this device support bands 5.60 ~ 5.65 GHz? ☒ Yes ☐ No			
	Does this device support Band gap channel(s)? ☒ Yes ☐ No			
Bluetooth	2.4 GHz	Version 4.2 LE		77.5% (DH5)

6.3. Maximum Output Power

KDB 447498 sec.4.1.(3) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit

RF Air interface	Mode	Maximum Output Power (dBm)			
		UAT		LAT	
		Head	Body	Head	Body
GSM850	Voice	31.5	31.5	33.5	33.5
	GPRS 1 slot	31.5	31.5	33.5	33.5
	GPRS 2 slots	30.5	30.5	32.5	32.5
	EGPRS 1 slot	27.0	27.0	29.0	29.0
	EGPRS 2 slots	27.0	27.0	29.0	29.0
GSM1900	Voice	25.6	27.5	30.5	27.7
	GPRS 1 slot	25.6	27.5	30.5	27.7
	GPRS 2 slots	22.6	25.1	29.5	24.7
	EGPRS 1 slot	25.0	25.0	28.0	27.7
	EGPRS 2 slots	22.6	25.0	28.0	24.7
W-CDMA Band V	R99	23.5	23.5	25.0	25.0
	HSDPA	23.5	23.5	25.0	25.0
	HSUPA	23.5	23.5	25.0	25.0
	DC-HSDPA	23.5	23.5	25.0	25.0
	HSPA+	23.5	23.5	25.0	25.0
W-CDMA Band IV	R99	17.5	20.0	25.0	19.5
	HSDPA	17.5	20.0	25.0	19.5
	HSUPA	17.5	20.0	25.0	19.5
	DC-HSDPA	17.5	20.0	25.0	19.5
	HSPA+	17.5	20.0	25.0	19.5
W-CDMA Band II	R99	18.5	21.5	25.0	18.5
	HSDPA	18.5	21.5	25.0	18.5
	HSUPA	18.5	21.5	25.0	18.5
	DC-HSDPA	18.5	21.5	25.0	18.5
	HSPA+	18.5	21.5	25.0	18.5
CDMA BC0	1xRTT	23.5	23.5	25.0	25.0
	1xAdvanced	23.5	23.5	25.0	25.0
	1xEVDO Rel. 0	23.5	23.5	25.0	25.0
	1xEVDO Rev. A	23.5	23.5	25.0	25.0
CDMA BC1	1xRTT	18.5	21.5	25.0	18.5
	1xAdvanced	18.5	21.5	25.0	18.5
	1xEVDO Rel. 0	18.5	21.5	25.0	18.5
	1xEVDO Rev. A	18.5	21.5	25.0	18.5
CDMA BC10	1xRTT	23.5	23.5	25.0	25.0
	1xAdvanced	23.5	23.5	25.0	25.0
	1xEVDO Rel. 0	23.5	23.5	25.0	25.0
	1xEVDO Rev. A	23.5	23.5	25.0	25.0
CDMA BC15	1xRTT	17.5	20.0	25.0	19.5
	1xAdvanced	17.5	20.0	25.0	19.5
	1xEVDO Rel. 0	17.5	20.0	25.0	19.5
	1xEVDO Rev. A	17.5	20.0	25.0	19.5

RF Air interface	Mode	Maximum Output Pow er (dBm)			
		UAT		LAT	
		Head	Body	Head	Body
LTE Band 2	QPSK	18.5	21.5	24.0	18.5
LTE Band 4	QPSK	17.5	20.0	24.0	19.5
LTE Band 5	QPSK	22.5	22.5	24.0	24.0
LTE Band 7	QPSK	18.0	17.7	22.0	17.5
LTE Band 12	QPSK	23.0	23.0	24.0	24.0
LTE Band 13	QPSK	23.0	23.0	24.0	24.0
LTE Band 17	QPSK	23.0	23.0	24.0	24.0
LTE Band 25	QPSK	18.5	21.5	24.0	18.5
LTE Band 26	QPSK	22.5	22.5	24.0	24.0
LTE Band 27	QPSK	22.5	22.5	24.0	24.0
LTE Band 30	QPSK	16.5	19.0	23.0	20.5
LTE Band 41	QPSK	19.8	21.5	22.5	18.5
RF Air interface	Mode	Maximum Output Pow er (dBm)			
		P _{Low}		P _{Max}	
Bluetooth		10.5		16.5	

6.3.1. WLAN (P_{Cell ON})

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
2.4	802.11b	1 Tx	1	2412	14.5	15.5	18.5	14.0	Yes
			6	2437	14.5	15.5	18.5	14.0	
			11	2462	14.5	15.5	18.5	14.0	
			12	2467	14.5	15.5	18.0	14.0	
			13	2472	14.5	15.0	15.0	14.0	
	802.11g	1 Tx	1	2412	14.5	15.5	16.0	14.0	No
			2	2417	14.5	15.5	17.0	14.0	
			3	2422	14.5	15.5	18.5	14.0	
			6	2437	14.5	15.5	18.5	14.0	
			9	2452	14.5	15.5	18.5	14.0	
			10	2457	14.5	15.5	16.0	14.0	
			11	2462	14.5	15.0	15.0	14.0	
			12	2467	12.0	12.0	12.0	12.0	
		2 Tx CDD	1	2412	14.5		15.5		Yes
			2	2417	14.5		17.0		
			3	2422	14.5		18.5		
			6	2437	14.5		18.5		
			9	2452	14.5		18.5		
			10	2457	14.5		15.5		
			11	2462	14.5		14.5		
			12	2467	12.0		12.0		
			13	2472	3.0		3.0		
			1	2412		15.5		14.0	Yes
			2	2417		15.5		14.0	
			3	2422		15.5		14.0	
			6	2437		15.5		14.0	
			9	2452		15.5		14.0	
			10	2457		15.5		14.0	
			11	2462		14.5		14.0	
			12	2467		12.0		12.0	
			13	2472		3.0		3.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
2.4	802.11n	1 Tx HT20	1	2412	14.5	15.5	16.0	14.0	No
			2	2417	14.5	15.5	17.0	14.0	
			3	2422	14.5	15.5	18.5	14.0	
			6	2437	14.5	15.5	18.5	14.0	
			9	2452	14.5	15.5	18.5	14.0	
			10	2457	14.5	15.5	16.0	14.0	
			11	2462	14.5	15.0	15.0	14.0	
			12	2467	12.0	12.0	12.0	12.0	
			13	2472	3.0	3.0	3.0	3.0	
		2 Tx HT20 CDD/STBC/ SDM	1	2412	14.5		15.5		No
			2	2417	14.5		17.0		
			3	2422	14.5		18.5		
			6	2437	14.5		18.5		
			9	2452	14.5		18.5		
			10	2457	14.5		15.5		
			11	2462	14.5		14.5		
			12	2467	12.0		12.0		
			13	2472	3.0		3.0		
			1	2412		15.5		14.0	No
			2	2417		15.5		14.0	
			3	2422		15.5		14.0	
			6	2437		15.5		14.0	
			9	2452		15.5		14.0	
			10	2457		15.5		14.0	
			11	2462		14.5		14.0	
			12	2467		12.0		12.0	
			13	2472		3.0		3.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.2	802.11a	1 Tx	36	5180	10.0	14.0	16.0	11.0	No	
			40	5200	10.0	14.0	18.5	11.0		
			44	5220	10.0	14.0	18.5	11.0		
			48	5240	10.0	14.0	18.5	11.0		
		2 Tx CDD	36	5180	10.0		16.0		No	
			40	5200	10.0		17.0			
			44	5220	10.0		17.0			
			48	5240	10.0		17.0			
			36	5180		14.0		11.0	No	
			40	5200		14.0		11.0		
			44	5220		14.0		11.0		
			48	5240		14.0		11.0		
		802.11n	1 Tx HT20	36	5180	10.0	14.0	16.0	11.0	No
				40	5200	10.0	14.0	18.5	11.0	
				44	5220	10.0	14.0	18.5	11.0	
				48	5240	10.0	14.0	18.5	11.0	
	1 Tx HT40		38	5190	10.0	14.0	14.5	11.0	No	
			46	5230	10.0	14.0	17.0	11.0		
	2 Tx HT20 CDD/STBC/ SDM		36	5180	10.0		16.0		No	
			40	5200	10.0		17.0			
			44	5220	10.0		17.0			
			48	5240	10.0		17.0			
			36	5180		14.0		11.0	No	
			40	5200		14.0		11.0		
			44	5220		14.0		11.0		
			48	5240		14.0		11.0		
	2 Tx HT40 CDD/STBC/ SDM		38	5190	10.0		14.0		No	
			46	5230	10.0		17.0			
			38	5190		14.0		11.0	No	
			46	5230		14.0		11.0		
	802.11ac		1 Tx VHT20	36	5180	10.0	14.0	16.0	11.0	No
				40	5200	10.0	14.0	18.5	11.0	
				44	5220	10.0	14.0	18.5	11.0	
				48	5240	10.0	14.0	18.5	11.0	
			1 Tx VHT40	38	5190	10.0	14.0	14.5	11.0	No
				46	5230	10.0	14.0	17.0	11.0	
		1 Tx VHT80	42	5210	10.0	13.0	13.0	11.0	Yes	
		2 Tx VHT20 CDD/STBC/ SDM	36	5180	10.0		16.0		No	
			40	5200	10.0		17.0			
			44	5220	10.0		17.0			
			48	5240	10.0		17.0			
			36	5180		14.0		11.0	No	
			40	5200		14.0		11.0		
			44	5220		14.0		11.0		
			48	5240		14.0		11.0		
		2 Tx VHT40 CDD/STBC/ SDM	38	5190	10.0		14.0		No	
			46	5230	10.0		17.0			
			38	5190		14.0		11.0	No	
			46	5230		14.0		11.0		
		2 Tx VHT80 CDD/STBC/ SDM	42	5210	10.0		12.0		No	
			42	5210		12.0		11.0	No	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.3	802.11a	1 Tx	52	5260	10.0	14.3	19.5	10.5	Yes	
			56	5280	10.0	14.3	19.5	10.5		
			60	5300	10.0	14.3	19.5	10.5		
			64	5320	10.0	14.3	16.0	10.5		
		2 Tx CDD	52	5260	10.0		17.0		No	
			56	5280	10.0		17.0			
			60	5300	10.0		17.0			
			64	5320	10.0		16.0			
			52	5260		14.3		10.5	No	
			56	5280		14.3		10.5		
			60	5300		14.3		10.5		
			64	5320		14.3		10.5		
		802.11n	1 Tx HT20	52	5260	10.0	14.3	19.5	10.5	No
				56	5280	10.0	14.3	19.5	10.5	
				60	5300	10.0	14.3	19.5	10.5	
				64	5320	10.0	14.3	16.0	10.5	
	1 Tx HT40		54	5270	10.0	14.3	18.0	10.5	No	
			62	5310	10.0	14.3	15.0	10.5		
	2 Tx HT20 CDD/STBC/ SDM		52	5260	10.0		17.0		No	
			56	5280	10.0		17.0			
			60	5300	10.0		17.0			
			64	5320	10.0		16.0			
			52	5260		14.3		10.5	No	
			56	5280		14.3		10.5		
			60	5300		14.3		10.5		
			64	5320		14.3		10.5		
	2 Tx HT40 CDD/STBC/ SDM		54	5270	10.0		18.0		Yes	
			62	5310	10.0		14.5			
			54	5270		14.3		10.5	Yes	
			62	5310		14.3		10.5		
	802.11ac		1 Tx VHT20	52	5260	10.0	14.3	19.5	10.5	No
				56	5280	10.0	14.3	19.5	10.5	
				60	5300	10.0	14.3	19.5	10.5	
				64	5320	10.0	14.3	16.0	10.5	
			1 Tx VHT40	54	5270	10.0	14.3	18.0	10.5	No
				62	5310	10.0	14.3	15.0	10.5	
		1 Tx VHT80	58	5290	10.0	14.3	15.0	10.5	Yes	
		2 Tx VHT20 CDD/STBC/ SDM	52	5260	10.0		17.0		No	
			56	5280	10.0		17.0			
			60	5300	10.0		17.0			
			64	5320	10.0		16.0			
			52	5260		14.3		10.5	No	
			56	5280		14.3		10.5		
			60	5300		14.3		10.5		
			64	5320		14.3		10.5		
		2 Tx VHT40 CDD/STBC/ SDM	54	5270	10.0		18.0		No	
			62	5310	10.0		14.5			
			54	5270		14.3		10.5	No	
			62	5310		14.3		10.5		
		2 Tx VHT80 CDD/STBC/ SDM	58	5290	10.0		14.0		No	
			58	5290		14.0		10.5	No	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.5	802.11a	1 Tx	100	5500	10.5	15.1	16.0	10.5	No
			104	5520	10.5	15.1	18.5	10.5	
			108	5540	10.5	15.1	18.5	10.5	
			112	5560	10.5	15.1	18.5	10.5	
			116	5580	10.5	15.1	18.5	10.5	
			120	5600	10.5	15.1	18.5	10.5	
			124	5620	10.5	15.1	18.5	10.5	
			128	5640	10.5	15.1	18.5	10.5	
			132	5660	10.5	15.1	18.5	10.5	
			136	5680	10.5	15.1	18.5	10.5	
			140	5700	10.5	15.1	15.5	10.5	
			144	5720	10.5	15.1	18.5	10.5	
		2 Tx CDD	100	5500	10.5		16.0		No
			104	5520	10.5		17.0		
			108	5540	10.5		17.0		
			112	5560	10.5		17.0		
			116	5580	10.5		17.0		
			120	5600	10.5		17.0		
			124	5620	10.5		17.0		
			128	5640	10.5		17.0		
			132	5660	10.5		17.0		
			136	5680	10.5		17.0		
			140	5700	10.5		15.5		
			144	5720	10.5		17.0		
			100	5500		15.1		10.5	No
			104	5520		15.1		10.5	
			108	5540		15.1		10.5	
			112	5560		15.1		10.5	
			116	5580		15.1		10.5	
			120	5600		15.1		10.5	
			124	5620		15.1		10.5	
			128	5640		15.1		10.5	
			132	5660		15.1		10.5	
			136	5680		15.1		10.5	
			140	5700		15.1		10.5	
			144	5720		15.1		10.5	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.5	802.11n	1 Tx HT20	100	5500	10.5	15.1	16.0	10.5	No	
			104	5520	10.5	15.1	18.5	10.5		
			108	5540	10.5	15.1	18.5	10.5		
			112	5560	10.5	15.1	18.5	10.5		
			116	5580	10.5	15.1	18.5	10.5		
			120	5600	10.5	15.1	18.5	10.5		
			124	5620	10.5	15.1	18.5	10.5		
			128	5640	10.5	15.1	18.5	10.5		
			132	5660	10.5	15.1	18.5	10.5		
			136	5680	10.5	15.1	18.5	10.5		
			140	5700	10.5	15.1	15.5	10.5		
			144	5720	10.5	15.1	18.5	10.5		
		1 Tx HT40	102	5510	10.5	15.1	16.0	10.5	No	
			110	5550	10.5	15.1	18.5	10.5		
			118	5590	10.5	15.1	18.5	10.5		
			126	5630	10.5	15.1	18.5	10.5		
			134	5670	10.5	15.1	16.5	10.5		
			142	5710	10.5	15.1	18.5	10.5		
		2 Tx HT20 CDD/STBC/ SDM	100	5500	10.5		16.0		No	
			104	5520	10.5		17.0			
			108	5540	10.5		17.0			
			112	5560	10.5		17.0			
			116	5580	10.5		17.0			
			120	5600	10.5		17.0			
			124	5620	10.5		17.0			
			128	5640	10.5		17.0			
			132	5660	10.5		17.0			
			136	5680	10.5		17.0			
			140	5700	10.5		15.5			
			144	5720	10.5		17.0			
			100	5500		15.1		10.5	No	
			104	5520		15.1		10.5		
			108	5540		15.1		10.5		
			112	5560		15.1		10.5		
			116	5580		15.1		10.5		
			120	5600		15.1		10.5		
			124	5620		15.1		10.5		
			128	5640		15.1		10.5		
			132	5660		15.1		10.5		
			136	5680		15.1		10.5		
			140	5700		15.1		10.5		
			144	5720		15.1		10.5		
			2 Tx HT40 CDD/STBC/ SDM	102	5510	10.5		16.0		No
				110	5550	10.5		18.5		
				118	5590	10.5		18.5		
				126	5630	10.5		18.5		
				134	5670	10.5		16.5		
				142	5710	10.5		18.5		
		102		5510		15.1		10.5	No	
		110		5550		15.1		10.5		
		118		5590		15.1		10.5		
		126		5630		15.1		10.5		
		134		5670		15.1		10.5		
		142		5710		15.1		10.5		

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.5	802.11ac	1 Tx VHT20	100	5500	10.5	15.1	16.0	10.5	No
			104	5520	10.5	15.1	18.5	10.5	
			108	5540	10.5	15.1	18.5	10.5	
			112	5560	10.5	15.1	18.5	10.5	
			116	5580	10.5	15.1	18.5	10.5	
			120	5600	10.5	15.1	18.5	10.5	
			124	5620	10.5	15.1	18.5	10.5	
			128	5640	10.5	15.1	18.5	10.5	
			132	5660	10.5	15.1	18.5	10.5	
			136	5680	10.5	15.1	18.5	10.5	
			140	5700	10.5	15.1	15.5	10.5	
			144	5720	10.5	15.1	18.5	10.5	
		1 Tx VHT40	102	5510	10.5	15.1	16.0	10.5	No
			110	5550	10.5	15.1	18.5	10.5	
			118	5590	10.5	15.1	18.5	10.5	
			126	5630	10.5	15.1	18.5	10.5	
			134	5670	10.5	15.1	16.5	10.5	
		1 Tx VHT80	142	5710	10.5	15.1	18.5	10.5	Yes
			106	5530	10.5	14.0	14.0	10.5	
			122	5610	10.5	15.1	17.0	10.5	
				138	5690	10.5	15.1	18.5	10.5

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.5	802.11ac	2 Tx VHT20 CDD/STBC/ SDM	100	5500	10.5		16.0		No	
			104	5520	10.5		17.0			
			108	5540	10.5		17.0			
			112	5560	10.5		17.0			
			116	5580	10.5		17.0			
			120	5600	10.5		17.0			
			124	5620	10.5		17.0			
			128	5640	10.5		17.0			
			132	5660	10.5		17.0			
			136	5680	10.5		17.0			
			140	5700	10.5		15.5			
			144	5720	10.5		17.0			
			100	5500		15.1		10.5	No	
			104	5520		15.1		10.5		
			108	5540		15.1		10.5		
			112	5560		15.1		10.5		
			116	5580		15.1		10.5		
			120	5600		15.1		10.5		
			124	5620		15.1		10.5		
			128	5640		15.1		10.5		
			132	5660		15.1		10.5		
			136	5680		15.1		10.5		
			140	5700		15.1		10.5		
			144	5720		15.1		10.5		
		2 Tx VHT40 CDD/STBC/ SDM	102	5510	10.5		16.0		No	
			110	5550	10.5		18.5			
			118	5590	10.5		18.5			
			126	5630	10.5		18.5			
			134	5670	10.5		16.5			
			142	5710	10.5		18.5			
				102	5510		15.1		10.5	No
				110	5550		15.1		10.5	
				118	5590		15.1		10.5	
				126	5630		15.1		10.5	
				134	5670		15.1		10.5	
				142	5710		15.1		10.5	
2 Tx VHT80 CDD/STBC/ SDM	106	5530	10.5		14.0		Yes			
	122	5610	10.5		16.0					
	138	5690	10.5		18.5					
		106	5530		14.0		10.5	Yes		
		122	5610		15.1		10.5			
		138	5690		15.1		10.5			

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.8	802.11a	1 Tx	149	5745	10.0	16.0	16.0	10.5	Yes
			153	5765	10.0	17.2	19.5	10.5	
			157	5785	10.0	17.2	19.5	10.5	
			161	5805	10.0	17.2	19.5	10.5	
			165	5825	10.0	17.0	17.0	10.5	
		2 Tx CDD	149	5745	10.0		16.0		Yes
			153	5765	10.0		19.5		
			157	5785	10.0		19.5		
			161	5805	10.0		19.5		
			165	5825	10.0		17.0		
			149	5745		16.0		10.5	Yes
			153	5765		17.2		10.5	
			157	5785		17.2		10.5	
			161	5805		17.2		10.5	
			165	5825		17.0		10.5	
	802.11n	1 Tx HT20	149	5745	10.0	16.0	16.0	10.5	No
			153	5765	10.0	17.2	19.5	10.5	
			157	5785	10.0	17.2	19.5	10.5	
			161	5805	10.0	17.2	19.5	10.5	
			165	5825	10.0	17.0	17.0	10.5	
		1 Tx HT40	151	5755	10.0	15.0	15.0	10.5	Yes
			159	5795	10.0	17.2	18.0	10.5	
		2 Tx HT20 CDD/STBC/ SDM	149	5745	10.0		16.0		No
			153	5765	10.0		19.5		
			157	5785	10.0		19.5		
			161	5805	10.0		19.5		
			165	5825	10.0		17.0		
			149	5745		16.0		10.5	No
			153	5765		17.2		10.5	
			157	5785		17.2		10.5	
			161	5805		17.2		10.5	
			165	5825		17.0		10.5	
		2 Tx HT40 CDD/STBC/ SDM	151	5755	10.0		15.0		No
			159	5795	10.0		17.0		
			151	5755		15.0		10.5	No
			159	5795		17.0		10.5	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.8	802.11ac	1 Tx VHT20	149	5745	10.0	16.0	16.0	10.5	No
			153	5765	10.0	17.2	19.5	10.5	
			157	5785	10.0	17.2	19.5	10.5	
			161	5805	10.0	17.2	19.5	10.5	
			165	5825	10.0	17.0	17.0	10.5	
		1 Tx VHT40	151	5755	10.0	15.0	15.0	10.5	No
			159	5795	10.0	17.2	18.0	10.5	
		1 Tx VHT80	155	5775	10.0	15.0	15.0	10.5	Yes
		2 Tx HT20 CDD/STBC/ SDM	149	5745	10.0		16.0		No
			153	5765	10.0		19.5		
			157	5785	10.0		19.5		
			161	5805	10.0		19.5		
			165	5825	10.0		17.0		
		2 Tx HT40 CDD/STBC/ SDM	149	5745		16.0		10.5	No
			153	5765		17.2		10.5	
			157	5785		17.2		10.5	
			161	5805		17.2		10.5	
			165	5825		17.0		10.5	
		2 Tx HT40 CDD/STBC/ SDM	151	5755	10.0		15.0		No
			159	5795	10.0		17.0		
			151	5755		15.0		10.5	No
			159	5795		17.0		10.5	
		2 Tx VHT80 CDD/STBC/ SDM	155	5775	10.0		15.0		No
			155	5775		15.0		10.5	No

6.3.2. WLAN (P_{Cell_OFF})

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
2.4	802.11b	1 Tx	1	2412	18.5	18.5	18.5	18.5	Yes
			6	2437	18.5	18.5	18.5	18.5	
			11	2462	18.5	18.5	18.5	18.5	
			12	2467	18.0	18.0	18.0	18.0	
			13	2472	15.0	15.0	15.0	15.0	
	802.11g	1 Tx	1	2412	16.0	16.0	16.0	16.0	No
			2	2417	17.0	17.0	17.0	17.0	
			3	2422	18.5	18.5	18.5	18.5	
			6	2437	18.5	18.5	18.5	18.5	
			9	2452	18.5	18.5	18.5	18.5	
			10	2457	16.0	16.0	16.0	16.0	
			11	2462	15.0	15.0	15.0	15.0	
			12	2467	12.0	12.0	12.0	12.0	
		13	2472	3.0	3.0	3.0	3.0	Yes	
		2 Tx CDD	1	2412	15.5		15.5		
			2	2417	17.0		17.0		
			3	2422	18.5		18.5		
			6	2437	18.5		18.5		
			9	2452	18.5		18.5		
			10	2457	15.5		15.5		
			11	2462	14.5		14.5		
			12	2467	12.0		12.0		
			13	2472	3.0		3.0		
			1	2412		15.5		15.5	Yes
			2	2417		17.0		17.0	
			3	2422		18.5		18.5	
			6	2437		18.5		18.5	
			9	2452		18.5		18.5	
			10	2457		15.5		15.5	
			11	2462		14.5		14.5	
			12	2467		12.0		12.0	
		13	2472		3.0		3.0		

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
2.4	802.11n	1 Tx HT20	1	2412	16.0	16.0	16.0	16.0	No
			2	2417	17.0	17.0	17.0	17.0	
			3	2422	18.5	18.5	18.5	18.5	
			6	2437	18.5	18.5	18.5	18.5	
			9	2452	18.5	18.5	18.5	18.5	
			10	2457	16.0	16.0	16.0	16.0	
			11	2462	15.0	15.0	15.0	15.0	
			12	2467	12.0	12.0	12.0	12.0	
			13	2472	3.0	3.0	3.0	3.0	
		2 Tx HT20 CDD/STBC/ SDM	1	2412	15.5		15.5		No
			2	2417	17.0		17.0		
			3	2422	18.5		18.5		
			6	2437	18.5		18.5		
			9	2452	18.5		18.5		
			10	2457	15.5		15.5		
			11	2462	14.5		14.5		
			12	2467	12.0		12.0		
			13	2472	3.0		3.0		
			1	2412		15.5		15.5	No
			2	2417		17.0		17.0	
			3	2422		18.5		18.5	
			6	2437		18.5		18.5	
			9	2452		18.5		18.5	
			10	2457		15.5		15.5	
			11	2462		14.5		14.5	
			12	2467		12.0		12.0	
			13	2472		3.0		3.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.2	802.11a	1 Tx	36	5180	14.0	16.0	16.0	16.0	Yes	
			40	5200	14.0	18.0	19.5	17.8		
			44	5220	14.0	18.0	19.5	17.8		
			48	5240	14.0	18.0	19.5	17.8		
		2 Tx CDD	36	5180	14.0		16.0		No	
			40	5200	14.0		17.0			
			44	5220	14.0		17.0			
			48	5240	14.0		17.0			
			36	5180		16.0		16.0	No	
			40	5200		17.0		17.0		
			44	5220		17.0		17.0		
			48	5240		17.0		17.0		
		802.11n	1 Tx HT20	36	5180	14.0	16.0	16.0	16.0	No
				40	5200	14.0	18.0	19.5	17.8	
				44	5220	14.0	18.0	19.5	17.8	
				48	5240	14.0	18.0	19.5	17.8	
	1 Tx HT40		38	5190	14.0	14.5	14.5	14.5	No	
			46	5230	14.0	17.0	17.0	17.0		
	2 Tx HT20 CDD/STBC/ SDM		36	5180	14.0		16.0		No	
			40	5200	14.0		17.0			
			44	5220	14.0		17.0			
			48	5240	14.0		17.0			
			36	5180		16.0		16.0	No	
			40	5200		17.0		17.0		
			44	5220		17.0		17.0		
			48	5240		17.0		17.0		
	2 Tx HT40 CDD/STBC/ SDM		38	5190	14.0		14.0		No	
			46	5230	14.0		17.0			
			38	5190		14.0		14.0	No	
			46	5230		17.0		17.0		
	802.11ac		1 Tx VHT20	36	5180	14.0	16.0	16.0	16.0	No
				40	5200	14.0	18.0	19.5	17.8	
				44	5220	14.0	18.0	19.5	17.8	
				48	5240	14.0	18.0	19.5	17.8	
			1 Tx VHT40	38	5190	14.0	14.5	14.5	14.5	No
				46	5230	14.0	17.0	17.0	17.0	
			1 Tx VHT80	42	5210	13.0	13.0	13.0	13.0	No
			2 Tx VHT20 CDD/STBC/ SDM	36	5180	14.0		16.0		No
				40	5200	14.0		17.0		
				44	5220	14.0		17.0		
				48	5240	14.0		17.0		
				36	5180		16.0		16.0	No
				40	5200		17.0		17.0	
				44	5220		17.0		17.0	
		48		5240		17.0		17.0		
		2 Tx VHT40 CDD/STBC/ SDM	38	5190	14.0		14.0		No	
			46	5230	14.0		17.0			
			38	5190		14.0		14.0	No	
			46	5230		17.0		17.0		
		2 Tx VHT80 CDD/STBC/ SDM	42	5210	12.0		12.0		No	
			42	5210		12.0		12.0	No	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.3	802.11a	1 Tx	52	5260	14.0	18.5	19.5	17.3	Yes	
			56	5280	14.0	18.5	19.5	17.3		
			60	5300	14.0	18.5	19.5	17.3		
			64	5320	14.0	16.0	16.0	16.0		
		2 Tx CDD	52	5260	14.0		17.0		No	
			56	5280	14.0		17.0			
			60	5300	14.0		17.0			
			64	5320	14.0		16.0			
			52	5260		17.0		17.0	No	
			56	5280		17.0		17.0		
			60	5300		17.0		17.0		
			64	5320		16.0		16.0		
	802.11n	1 Tx HT20	52	5260	14.0	18.5	19.5	17.3	No	
			56	5280	14.0	18.5	19.5	17.3		
			60	5300	14.0	18.5	19.5	17.3		
			64	5320	14.0	16.0	16.0	16.0		
		1 Tx HT40	54	5270	14.0	18.0	18.0	17.3	No	
			62	5310	14.0	15.0	15.0	15.0		
		2 Tx HT20 CDD/STBC/ SDM	52	5260	14.0		17.0		No	
			56	5280	14.0		17.0			
			60	5300	14.0		17.0			
			64	5320	14.0		16.0			
			52	5260		17.0		17.0	No	
			56	5280		17.0		17.0		
			60	5300		17.0		17.0		
			64	5320		16.0		16.0		
		2 Tx HT40 CDD/STBC/ SDM	54	5270	14.0		18.0		Yes	
			62	5310	14.0		14.5			
			54	5270		18.0		17.3	Yes	
			62	5310		14.5		14.5		
		802.11ac	1 Tx VHT20	52	5260	14.0	18.5	19.5	17.3	No
				56	5280	14.0	18.5	19.5	17.3	
				60	5300	14.0	18.5	19.5	17.3	
				64	5320	14.0	16.0	16.0	16.0	
			1 Tx VHT40	54	5270	14.0	18.0	18.0	17.3	No
				62	5310	14.0	15.0	15.0	15.0	
	1 Tx VHT80		58	5290	14.0	15.0	15.0	15.0	Yes	
	2 Tx VHT20 CDD/STBC/ SDM		52	5260	14.0		17.0		No	
			56	5280	14.0		17.0			
			60	5300	14.0		17.0			
			64	5320	14.0		16.0			
			52	5260		17.0		17.0	No	
			56	5280		17.0		17.0		
			60	5300		17.0		17.0		
			64	5320		16.0		16.0		
	2 Tx VHT40 CDD/STBC/ SDM		54	5270	14.0		18.0		No	
			62	5310	14.0		14.5			
			54	5270		18.0		17.3	No	
			62	5310		14.5		14.5		
	2 Tx VHT80 CDD/STBC/ SDM		58	5290	14.0		14.0		No	
			58	5290		14.0		14.0	No	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.5	802.11a	1 Tx	100	5500	14.5	16.0	16.0	16.0	Yes
			104	5520	14.5	18.5	19.5	17.3	
			108	5540	14.5	18.5	19.5	17.3	
			112	5560	14.5	18.5	19.5	17.3	
			116	5580	14.5	18.5	19.5	17.3	
			120	5600	14.5	18.5	19.5	17.3	
			124	5620	14.5	18.5	19.5	17.3	
			128	5640	14.5	18.5	19.5	17.3	
			132	5660	14.5	18.5	19.5	17.3	
			136	5680	14.5	18.5	19.5	17.3	
			140	5700	14.5	15.5	15.5	15.5	
			144	5720	14.5	18.5	19.5	17.3	
		2 Tx CDD	100	5500	14.5		16.0		No
			104	5520	14.5		17.0		
			108	5540	14.5		17.0		
			112	5560	14.5		17.0		
			116	5580	14.5		17.0		
			120	5600	14.5		17.0		
			124	5620	14.5		17.0		
			128	5640	14.5		17.0		
			132	5660	14.5		17.0		
			136	5680	14.5		17.0		
			140	5700	14.5		15.5		
			144	5720	14.5		17.0		
			100	5500		16.0		16.0	No
			104	5520		17.0		17.0	
			108	5540		17.0		17.0	
			112	5560		17.0		17.0	
			116	5580		17.0		17.0	
			120	5600		17.0		17.0	
			124	5620		17.0		17.0	
			128	5640		17.0		17.0	
			132	5660		17.0		17.0	
			136	5680		17.0		17.0	
			140	5700		15.5		15.5	
			144	5720		17.0		17.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)	
					UAT		LAT			
					HEAD	BODY	HEAD	BODY		
5.5	802.11n	1 Tx HT20	100	5500	14.5	16.0	16.0	16.0	No	
			104	5520	14.5	18.5	19.5	17.3		
			108	5540	14.5	18.5	19.5	17.3		
			112	5560	14.5	18.5	19.5	17.3		
			116	5580	14.5	18.5	19.5	17.3		
			120	5600	14.5	18.5	19.5	17.3		
			124	5620	14.5	18.5	19.5	17.3		
			128	5640	14.5	18.5	19.5	17.3		
			132	5660	14.5	18.5	19.5	17.3		
			136	5680	14.5	18.5	19.5	17.3		
			140	5700	14.5	15.5	15.5	15.5		
			144	5720	14.5	18.5	19.5	17.3		
		1 Tx HT40	102	5510	14.5	16.0	16.0	16.0	No	
			110	5550	14.5	18.5	19.0	17.3		
			118	5590	14.5	18.5	19.0	17.3		
			126	5630	14.5	18.5	19.0	17.3		
			134	5670	14.5	16.5	16.5	16.5		
			142	5710	14.5	18.5	19.0	17.3		
		2 Tx HT20 CDD/STBC/ SDM	100	5500	14.5		16.0		No	
			104	5520	14.5		17.0			
			108	5540	14.5		17.0			
			112	5560	14.5		17.0			
			116	5580	14.5		17.0			
			120	5600	14.5		17.0			
			124	5620	14.5		17.0			
			128	5640	14.5		17.0			
			132	5660	14.5		17.0			
			136	5680	14.5		17.0			
			140	5700	14.5		15.5			
			144	5720	14.5		17.0			
				100	5500		16.0		16.0	No
				104	5520		17.0		17.0	
				108	5540		17.0		17.0	
				112	5560		17.0		17.0	
				116	5580		17.0		17.0	
				120	5600		17.0		17.0	
				124	5620		17.0		17.0	
				128	5640		17.0		17.0	
				132	5660		17.0		17.0	
				136	5680		17.0		17.0	
				140	5700		15.5		15.5	
				144	5720		17.0		17.0	
2 Tx HT40 CDD/STBC/ SDM	102	5510	14.5		16.0		No			
	110	5550	14.5		19.0					
	118	5590	14.5		19.0					
	126	5630	14.5		19.0					
	134	5670	14.5		16.5					
	142	5710	14.5		19.0					
		102	5510		16.0		16.0	No		
		110	5550		18.5		17.3			
		118	5590		18.5		17.3			
		126	5630		18.5		17.3			
		134	5670		16.5		16.5			
		142	5710		18.5		17.3			

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.5	802.11ac	1 Tx VHT20	100	5500	14.5	16.0	16.0	16.0	No
			104	5520	14.5	18.5	19.5	17.3	
			108	5540	14.5	18.5	19.5	17.3	
			112	5560	14.5	18.5	19.5	17.3	
			116	5580	14.5	18.5	19.5	17.3	
			120	5600	14.5	18.5	19.5	17.3	
			124	5620	14.5	18.5	19.5	17.3	
			128	5640	14.5	18.5	19.5	17.3	
			132	5660	14.5	18.5	19.5	17.3	
			136	5680	14.5	18.5	19.5	17.3	
			140	5700	14.5	15.5	15.5	15.5	
			144	5720	14.5	18.5	19.5	17.3	
		1 Tx VHT40	102	5510	14.5	16.0	16.0	16.0	No
			110	5550	14.5	18.5	19.0	17.3	
			118	5590	14.5	18.5	19.0	17.3	
			126	5630	14.5	18.5	19.0	17.3	
			134	5670	14.5	16.5	16.5	16.5	
		1 Tx VHT80	142	5710	14.5	18.5	19.0	17.3	Yes
			106	5530	14.0	14.0	14.0	14.0	
			122	5610	14.5	17.0	17.0	17.0	
				138	5690	14.5	18.5	19.0	17.3

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.5	802.11ac	2 Tx HT20 CDD/STBC/ SDM	100	5500	14.5		16.0		No
			104	5520	14.5		17.0		
			108	5540	14.5		17.0		
			112	5560	14.5		17.0		
			116	5580	14.5		17.0		
			120	5600	14.5		17.0		
			124	5620	14.5		17.0		
			128	5640	14.5		17.0		
			132	5660	14.5		17.0		
			136	5680	14.5		17.0		
			140	5700	14.5		15.5		
			144	5720	14.5		17.0		
		100	5500		16.0		16.0	No	
		104	5520		17.0		17.0		
		108	5540		17.0		17.0		
		112	5560		17.0		17.0		
		116	5580		17.0		17.0		
		120	5600		17.0		17.0		
		124	5620		17.0		17.0		
		128	5640		17.0		17.0		
		132	5660		17.0		17.0		
		136	5680		17.0		17.0		
		140	5700		15.5		15.5		
		144	5720		17.0		17.0		
		2 Tx HT40 CDD/STBC/ SDM	102	5510	14.5		16.0		No
			110	5550	14.5		19.0		
			118	5590	14.5		19.0		
			126	5630	14.5		19.0		
			134	5670	14.5		16.5		
			142	5710	14.5		19.0		
102	5510			16.0		16.0	No		
110	5550			18.5		17.3			
118	5590			18.5		17.3			
126	5630			18.5		17.3			
134	5670			16.5		16.5			
142	5710			18.5		17.3			
2 Tx VHT80 CDD/STBC/ SDM	106	5530	14.0		14.0		Yes		
	122	5610	14.5		16.0				
	138	5690	14.5		19.0				
	106	5530		14.0		14.0	Yes		
	122	5610		16.0		16.0			
	138	5690		18.5		17.3			

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Pow er (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.8	802.11a	1 Tx	149	5745	14.0	16.0	16.0	16.0	Yes
			153	5765	14.0	19.0	19.5	17.3	
			157	5785	14.0	19.0	19.5	17.3	
			161	5805	14.0	19.0	19.5	17.3	
			165	5825	14.0	17.0	17.0	17.0	
		2 Tx CDD	149	5745	14.0		16.0		Yes
			153	5765	14.0		19.5		
			157	5785	14.0		19.5		
			161	5805	14.0		19.5		
			165	5825	14.0		17.0		
			149	5745		16.0		16.0	Yes
			153	5765		19.0		17.3	
			157	5785		19.0		17.3	
			161	5805		19.0		17.3	
			165	5825		17.0		17.0	
	802.11n	1 Tx HT20	149	5745	14.0	16.0	16.0	16.0	No
			153	5765	14.0	19.0	19.5	17.3	
			157	5785	14.0	19.0	19.5	17.3	
			161	5805	14.0	19.0	19.5	17.3	
			165	5825	14.0	17.0	17.0	17.0	
		1 Tx HT40	151	5755	14.0	15.0	15.0	15.0	Yes
			159	5795	14.0	18.0	18.0	17.3	
		2 Tx HT20 CDD/STBC/ SDM	149	5745	14.0		16.0		No
			153	5765	14.0		19.5		
			157	5785	14.0		19.5		
			161	5805	14.0		19.5		
			165	5825	14.0		17.0		
			149	5745		16.0		16.0	No
			153	5765		19.0		17.3	
			157	5785		19.0		17.3	
			161	5805		19.0		17.3	
			165	5825		17.0		17.0	
		2 Tx HT40 CDD/STBC/ SDM	151	5755	14.0		15.0		No
			159	5795	14.0		17.0		
			151	5755		15.0		15.0	No
			159	5795		17.0		17.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Maximum Output Power (dBm)				SAR Test (Yes/No)
					UAT		LAT		
					HEAD	BODY	HEAD	BODY	
5.8	802.11ac	1 Tx VHT20	149	5745	14.0	16.0	16.0	16.0	No
			153	5765	14.0	19.0	19.5	17.3	
			157	5785	14.0	19.0	19.5	17.3	
			161	5805	14.0	19.0	19.5	17.3	
			165	5825	14.0	17.0	17.0	17.0	
		1 Tx VHT40	151	5755	14.0	15.0	15.0	15.0	No
			159	5795	14.0	18.0	18.0	17.3	
		1 Tx VHT80	155	5775	14.0	15.0	15.0	15.0	Yes
		2 Tx HT20 CDD/STBC/ SDM	149	5745	14.0		16.0		No
			153	5765	14.0		19.5		
			157	5785	14.0		19.5		
			161	5805	14.0		19.5		
			165	5825	14.0		17.0		
			149	5745		16.0		16.0	No
			153	5765		19.0		17.3	
			157	5785		19.0		17.3	
			161	5805		19.0		17.3	
			165	5825		17.0		17.0	
		2 Tx HT40 CDD/STBC/ SDM	151	5755	14.0		15.0		No
			159	5795	14.0		17.0		
			151	5755		15.0		15.0	No
			159	5795		17.0		17.0	
		2 Tx VHT80 CDD/STBC/ SDM	155	5775	14.0		15.0		No
			155	5775		15.0		15.0	No

6.4. General LTE SAR Test and Reporting Considerations

Item	Description					
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	18700/ 1860	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5
	Mid	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	19100/ 1900	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5
	Band 4	Frequency range: 1710 - 1755 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5
	Mid	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20385/ 1753.5
	Band 5	Frequency range: 824 - 849 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5
	Band 7	Frequency range: 2500 - 2570 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	20850/ 2510	20825/ 2507.5	20800/ 2505	20775/ 2502.5	
	Mid	21100/ 2535	21100/ 2535	21100/ 2535	21100/ 2535	
	High	21350/ 2560	21375/ 2562.5	21400/ 2565	21425/ 2567.5	
	Band 12	Frequency range: 699 – 716 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5
	Band 13	Frequency range: 777 - 787 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low				23205/ 779.5	
	Mid			23230/ 782	23230/ 782	
	High				23255/ 784.5	

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 17	Frequency range: 704 - 716 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			23780/ 709	23755/ 706.5		
	Mid			23790/ 710	23790/ 710		
	High			23800/ 711	23825/ 713.5		
	Band 25	Frequency range: 1850 - 1915 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7
	Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5
	High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3
	Band 26	Frequency range: 814 - 824 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				26715/ 816.5	26705/ 815.5	26697/ 814.7
	Mid			26740/ 819	26740/ 819	26740/ 819	26740/ 819
	High				26765/ 821.5	26775/ 822.5	26783/ 823.3
	Band 30	Frequency range: 2305 - 2315 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				27685/ 2307.5	27675/ 2306.5	27667/ 2305.7
	Mid			27710/ 2310	27710/ 2310	27710/ 2310	27710/ 2310
	High				27735/ 2312.5	27745/ 2313.5	27753/ 2314.3

Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 41	Frequency range: 2496 - 2690 MHz																																											
		Channel Bandwidth																																											
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz																																						
	Low	39750/ 2506.0	39725/ 2503.5	39700/ 2501	39675/ 2498.5																																								
	Low-Mid	40185/ 2549.5	40173/ 2548.3	40160/ 2547.0	40148/ 2545.8																																								
	Mid	40620/ 2593.0	40620/ 2593.0	40620/ 2593.0	40620/ 2593.0																																								
	Mid-High	41055/ 2636.5	41068/ 2547.8	41080/ 2639.0	41093/ 2640.3																																								
	High	41490/ 2680.0	41515/ 2682.5	41540/ 2685.0	41565/ 2687.5																																								
LTE transmitter and antenna implementation	LTE can transmit from either UAT (Secondary Antenna) or LAT (Primary Antenna). The antenna switching is implemented with a physical, "break-before-make" switch such that only one antenna can be used for LTE transmission at a time.																																												
Maximum power reduction (MPR)	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3 <table> <tr> <th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (RB)</th><th rowspan="2">MPR (dB)</th></tr> <tr> <th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr> <tr> <td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr> <tr> <td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr> <tr> <td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr> </table> MPR Built-in by design A-MPR (additional MPR) was disabled during SAR testing							Modulation	Channel bandwidth / Transmission bandwidth (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
Modulation	Channel bandwidth / Transmission bandwidth (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																																						
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																												

6.5. LTE (TDD) Considerations

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

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

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

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

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

Calculated Duty Cycle

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

Calculated Duty Cycle = Extended cyclic prefix in uplink $\times (T_s) \times \# \text{ of S} + \# \text{ of U}$

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048) \text{ seconds}$

6.6. Antenna Dimensions and Separation Distances

Refer to separate filing document.

7. RF Exposure Conditions (Test Configurations)

The Body-worn accessory test configurations were tested using a conservative minimum test separation distance of 5 mm.

Upper Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body	5 mm	Rear	N/A	Yes	2
			Front	N/A	Yes	2
	Hotspot	5 mm	Rear	< 25 mm	Yes	
			Front	< 25 mm	Yes	
			Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	< 25 mm	Yes	
WLAN	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body	5 mm	Rear	N/A	Yes	2
			Front	N/A	Yes	2
	Hotspot / Airplay	5 mm	Rear	< 25 mm	Yes	
			Front	< 25 mm	Yes	
			Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	< 25 mm	Yes	

Notes:

1. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
2. The Body-worn minimum separation distance is 5 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 5 mm.

Lower Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body	5 mm	Rear	N/A	Yes	2
			Front	N/A	Yes	2
	Hotspot	5 mm	Rear	< 25 mm	Yes	
			Front	< 25 mm	Yes	
			Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	
WLAN	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body	5 mm	Rear	N/A	Yes	2
			Front	N/A	Yes	2
	Hotspot / Airplay	5 mm	Rear	< 25 mm	Yes	
			Front	< 25 mm	Yes	
			Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	

Notes:

1. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
2. The Body-worn minimum separation distance is 5 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 5 mm.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

Dielectric Property Measurements Results:**SAR Lab A**

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/8/2015	Head 2300	e'	39.6500	Relative Permittivity (ϵ_r):	39.65	39.47	0.45	5
		e''	12.6500	Conductivity (σ):	1.62	1.66	-2.76	5
	Head 2310	e'	39.6100	Relative Permittivity (ϵ_r):	39.61	39.45	0.39	5
		e''	12.7400	Conductivity (σ):	1.64	1.67	-2.16	5
	Head 2320	e'	39.5600	Relative Permittivity (ϵ_r):	39.56	39.44	0.31	5
		e''	12.7600	Conductivity (σ):	1.65	1.68	-2.10	5
6/8/2015	Body 2300	e'	52.6800	Relative Permittivity (ϵ_r):	52.68	52.90	-0.42	5
		e''	14.4300	Conductivity (σ):	1.85	1.80	2.32	5
	Body 2310	e'	52.6300	Relative Permittivity (ϵ_r):	52.63	52.89	-0.49	5
		e''	14.5000	Conductivity (σ):	1.86	1.81	2.73	5
	Body 2320	e'	52.5800	Relative Permittivity (ϵ_r):	52.58	52.88	-0.56	5
		e''	14.5000	Conductivity (σ):	1.87	1.82	2.64	5
6/11/2015	Head 2300	e'	40.1400	Relative Permittivity (ϵ_r):	40.14	39.47	1.69	5
		e''	13.0800	Conductivity (σ):	1.67	1.66	0.54	5
	Head 2310	e'	40.1100	Relative Permittivity (ϵ_r):	40.11	39.45	1.66	5
		e''	13.1200	Conductivity (σ):	1.69	1.67	0.76	5
	Head 2320	e'	40.0900	Relative Permittivity (ϵ_r):	40.09	39.44	1.65	5
		e''	13.1400	Conductivity (σ):	1.70	1.68	0.82	5
6/11/2015	Body 2300	e'	52.0600	Relative Permittivity (ϵ_r):	52.06	52.90	-1.60	5
		e''	13.9500	Conductivity (σ):	1.78	1.80	-1.08	5
	Body 2310	e'	52.0000	Relative Permittivity (ϵ_r):	52.00	52.89	-1.68	5
		e''	14.0000	Conductivity (σ):	1.80	1.81	-0.81	5
	Body 2320	e'	51.9900	Relative Permittivity (ϵ_r):	51.99	52.88	-1.68	5
		e''	14.0200	Conductivity (σ):	1.81	1.82	-0.76	5
6/12/2015	Head 750	e'	40.8000	Relative Permittivity (ϵ_r):	40.80	41.96	-2.77	5
		e''	21.7200	Conductivity (σ):	0.91	0.89	1.42	5
	Head 700	e'	41.4900	Relative Permittivity (ϵ_r):	41.49	42.22	-1.72	5
		e''	22.0400	Conductivity (σ):	0.86	0.89	-3.53	5
	Head 790	e'	40.2500	Relative Permittivity (ϵ_r):	40.25	41.76	-3.61	5
		e''	21.4200	Conductivity (σ):	0.94	0.90	4.99	5
6/12/2015	Body 750	e'	54.5400	Relative Permittivity (ϵ_r):	54.54	55.55	-1.81	5
		e''	23.3000	Conductivity (σ):	0.97	0.96	0.89	5
	Body 700	e'	55.0800	Relative Permittivity (ϵ_r):	55.08	55.74	-1.18	5
		e''	23.7300	Conductivity (σ):	0.92	0.96	-3.71	5
	Body 790	e'	54.0700	Relative Permittivity (ϵ_r):	54.07	55.39	-2.39	5
		e''	23.0100	Conductivity (σ):	1.01	0.97	4.62	5
6/15/2015	Head 750	e'	40.6200	Relative Permittivity (ϵ_r):	40.62	41.96	-3.20	5
		e''	21.7500	Conductivity (σ):	0.91	0.89	1.56	5
	Head 700	e'	41.2900	Relative Permittivity (ϵ_r):	41.29	42.22	-2.20	5
		e''	22.1100	Conductivity (σ):	0.86	0.89	-3.22	5
	Head 790	e'	40.0600	Relative Permittivity (ϵ_r):	40.06	41.76	-4.06	5
		e''	21.3700	Conductivity (σ):	0.94	0.90	4.75	5
6/15/2015	Body 750	e'	53.8900	Relative Permittivity (ϵ_r):	53.89	55.55	-2.98	5
		e''	23.2900	Conductivity (σ):	0.97	0.96	0.85	5
	Body 700	e'	54.4000	Relative Permittivity (ϵ_r):	54.40	55.74	-2.40	5
		e''	23.7000	Conductivity (σ):	0.92	0.96	-3.83	5
	Body 790	e'	53.4700	Relative Permittivity (ϵ_r):	53.47	55.39	-3.47	5
		e''	22.8900	Conductivity (σ):	1.01	0.97	4.07	5

SAR Lab A (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/16/2015	Head 2300	e'	38.3500	Relative Permittivity (ϵ_r):	38.35	39.47	-2.84	5
		e"	13.5500	Conductivity (σ):	1.73	1.66	4.16	5
	Head 2310	e'	38.3200	Relative Permittivity (ϵ_r):	38.32	39.45	-2.88	5
		e"	13.5900	Conductivity (σ):	1.75	1.67	4.37	5
	Head 2320	e'	38.2900	Relative Permittivity (ϵ_r):	38.29	39.44	-2.91	5
		e"	13.6100	Conductivity (σ):	1.76	1.68	4.42	5
6/16/015	Body 2300	e'	50.9100	Relative Permittivity (ϵ_r):	50.91	52.90	-3.77	5
		e"	14.5600	Conductivity (σ):	1.86	1.80	3.24	5
	Body 2310	e'	50.8900	Relative Permittivity (ϵ_r):	50.89	52.89	-3.78	5
		e"	14.5800	Conductivity (σ):	1.87	1.81	3.29	5
	Body 2320	e'	50.8600	Relative Permittivity (ϵ_r):	50.86	52.88	-3.82	5
		e"	14.5900	Conductivity (σ):	1.88	1.82	3.27	5
6/18/2015	Head 750	e'	40.4200	Relative Permittivity (ϵ_r):	40.42	41.96	-3.67	5
		e"	21.6600	Conductivity (σ):	0.90	0.89	1.14	5
	Head 700	e'	41.1900	Relative Permittivity (ϵ_r):	41.19	42.22	-2.43	5
		e"	22.0600	Conductivity (σ):	0.86	0.89	-3.44	5
	Head 790	e'	39.8500	Relative Permittivity (ϵ_r):	39.85	41.76	-4.57	5
		e"	21.3800	Conductivity (σ):	0.94	0.90	4.80	5
6/18/2015	Body 750	e'	53.3500	Relative Permittivity (ϵ_r):	53.35	55.55	-3.95	5
		e"	23.0600	Conductivity (σ):	0.96	0.96	-0.15	5
	Body 700	e'	53.9300	Relative Permittivity (ϵ_r):	53.93	55.74	-3.24	5
		e"	23.4600	Conductivity (σ):	0.91	0.96	-4.81	5
	Body 790	e'	52.8300	Relative Permittivity (ϵ_r):	52.83	55.39	-4.63	5
		e"	22.7400	Conductivity (σ):	1.00	0.97	3.39	5
6/20/2015	Head 2300	e'	38.3100	Relative Permittivity (ϵ_r):	38.31	39.47	-2.95	5
		e"	13.4900	Conductivity (σ):	1.73	1.66	3.69	5
	Head 2310	e'	38.2800	Relative Permittivity (ϵ_r):	38.28	39.45	-2.98	5
		e"	13.5400	Conductivity (σ):	1.74	1.67	3.98	5
	Head 2320	e'	38.2500	Relative Permittivity (ϵ_r):	38.25	39.44	-3.01	5
		e"	13.5700	Conductivity (σ):	1.75	1.68	4.12	5
6/20/2015	Body 2300	e'	50.9900	Relative Permittivity (ϵ_r):	50.99	52.90	-3.62	5
		e"	14.6300	Conductivity (σ):	1.87	1.80	3.74	5
	Body 2310	e'	50.9800	Relative Permittivity (ϵ_r):	50.98	52.89	-3.61	5
		e"	14.6700	Conductivity (σ):	1.88	1.81	3.93	5
	Body 2320	e'	50.9300	Relative Permittivity (ϵ_r):	50.93	52.88	-3.68	5
		e"	14.7000	Conductivity (σ):	1.90	1.82	4.05	5
6/22/2015	Head 750	e'	40.6200	Relative Permittivity (ϵ_r):	40.62	41.96	-3.20	5
		e"	21.7000	Conductivity (σ):	0.90	0.89	1.33	5
	Head 700	e'	41.1700	Relative Permittivity (ϵ_r):	41.17	42.22	-2.48	5
		e"	21.8600	Conductivity (σ):	0.85	0.89	-4.32	5
	Head 790	e'	40.2600	Relative Permittivity (ϵ_r):	40.26	41.76	-3.58	5
		e"	21.3900	Conductivity (σ):	0.94	0.90	4.85	5
6/22/2015	Body 750	e'	53.1200	Relative Permittivity (ϵ_r):	53.12	55.55	-4.37	5
		e"	23.4200	Conductivity (σ):	0.98	0.96	1.41	5
	Body 700	e'	53.5900	Relative Permittivity (ϵ_r):	53.59	55.74	-3.85	5
		e"	23.8600	Conductivity (σ):	0.93	0.96	-3.18	5
	Body 790	e'	52.7200	Relative Permittivity (ϵ_r):	52.72	55.39	-4.82	5
		e"	22.9200	Conductivity (σ):	1.01	0.97	4.21	5

SAR Lab A (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/24/2015	Head 835	e'	39.8200	Relative Permittivity (ϵ_r):	39.82	41.50	-4.05	5
		e''	18.8500	Conductivity (σ):	0.88	0.90	-2.76	5
	Head 820	e'	40.0000	Relative Permittivity (ϵ_r):	40.00	41.60	-3.85	5
		e''	18.9000	Conductivity (σ):	0.86	0.90	-4.09	5
	Head 850	e'	39.6300	Relative Permittivity (ϵ_r):	39.63	41.50	-4.51	5
		e''	18.7800	Conductivity (σ):	0.89	0.92	-3.00	5
6/25/2015	Body 835	e'	53.3700	Relative Permittivity (ϵ_r):	53.37	55.20	-3.32	5
		e''	21.4000	Conductivity (σ):	0.99	0.97	2.43	5
	Body 820	e'	53.5300	Relative Permittivity (ϵ_r):	53.53	55.28	-3.16	5
		e''	21.5100	Conductivity (σ):	0.98	0.97	1.27	5
	Body 850	e'	53.2100	Relative Permittivity (ϵ_r):	53.21	55.16	-3.53	5
		e''	21.3100	Conductivity (σ):	1.01	0.99	2.03	5
6/29/2015	Body 5180	e'	47.8300	Relative Permittivity (ϵ_r):	47.83	49.05	-2.48	5
		e''	18.6800	Conductivity (σ):	5.38	5.27	2.07	5
	Body 5200	e'	47.8500	Relative Permittivity (ϵ_r):	47.85	49.02	-2.39	5
		e''	18.6400	Conductivity (σ):	5.39	5.29	1.79	5
	Body 5600	e'	47.1700	Relative Permittivity (ϵ_r):	47.17	48.48	-2.70	5
		e''	18.9200	Conductivity (σ):	5.89	5.76	2.26	5
	Body 5800	e'	46.9300	Relative Permittivity (ϵ_r):	46.93	48.20	-2.63	5
		e''	19.1500	Conductivity (σ):	6.18	6.00	2.93	5
	Body 5825	e'	46.8700	Relative Permittivity (ϵ_r):	46.87	48.20	-2.76	5
		e''	19.2000	Conductivity (σ):	6.22	6.00	3.64	5
	Body 5180	e'	48.1400	Relative Permittivity (ϵ_r):	48.14	49.05	-1.85	5
		e''	18.5400	Conductivity (σ):	5.34	5.27	1.30	5
7/2/2015	Body 5200	e'	48.1700	Relative Permittivity (ϵ_r):	48.17	49.02	-1.73	5
		e''	18.5400	Conductivity (σ):	5.36	5.29	1.24	5
	Body 5600	e'	47.5600	Relative Permittivity (ϵ_r):	47.56	48.48	-1.89	5
		e''	18.8300	Conductivity (σ):	5.86	5.76	1.77	5
	Body 5800	e'	47.2400	Relative Permittivity (ϵ_r):	47.24	48.20	-1.99	5
		e''	19.0100	Conductivity (σ):	6.13	6.00	2.18	5
	Body 5825	e'	47.2100	Relative Permittivity (ϵ_r):	47.21	48.20	-2.05	5
		e''	19.0800	Conductivity (σ):	6.18	6.00	3.00	5
	Body 5180	e'	48.0200	Relative Permittivity (ϵ_r):	48.02	49.05	-2.09	5
		e''	17.9000	Conductivity (σ):	5.16	5.27	-2.20	5
	Body 5200	e'	48.0400	Relative Permittivity (ϵ_r):	48.04	49.02	-2.00	5
		e''	17.9100	Conductivity (σ):	5.18	5.29	-2.20	5
7/6/2015	Body 5600	e'	47.4700	Relative Permittivity (ϵ_r):	47.47	48.48	-2.08	5
		e''	17.7000	Conductivity (σ):	5.51	5.76	-4.33	5
	Body 5800	e'	47.3100	Relative Permittivity (ϵ_r):	47.31	48.20	-1.85	5
		e''	18.5000	Conductivity (σ):	5.97	6.00	-0.56	5
	Body 5825	e'	47.3700	Relative Permittivity (ϵ_r):	47.37	48.20	-1.72	5
		e''	18.4600	Conductivity (σ):	5.98	6.00	-0.35	5
	Body 5180	e'	50.4700	Relative Permittivity (ϵ_r):	50.47	49.05	2.90	5
		e''	17.8800	Conductivity (σ):	5.15	5.27	-2.31	5
	Body 5200	e'	50.4600	Relative Permittivity (ϵ_r):	50.46	49.02	2.94	5
		e''	17.8900	Conductivity (σ):	5.17	5.29	-2.31	5
	Body 5600	e'	50.0100	Relative Permittivity (ϵ_r):	50.01	48.48	3.16	5
		e''	18.2300	Conductivity (σ):	5.68	5.76	-1.47	5
7/9/2015	Body 5800	e'	49.7300	Relative Permittivity (ϵ_r):	49.73	48.20	3.17	5
		e''	18.4100	Conductivity (σ):	5.94	6.00	-1.05	5
	Body 5825	e'	49.7300	Relative Permittivity (ϵ_r):	49.73	48.20	3.17	5
		e''	18.4500	Conductivity (σ):	5.98	6.00	-0.40	5

SAR Lab A (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
7/9/2015	Head 750	e'	40.1600	Relative Permittivity (ϵ_r):	40.16	41.96	-4.29	5
		e''	21.3800	Conductivity (σ):	0.89	0.89	-0.17	5
	Head 700	e'	40.9100	Relative Permittivity (ϵ_r):	40.91	42.22	-3.10	5
		e''	21.7400	Conductivity (σ):	0.85	0.89	-4.84	5
	Head 790	e'	39.6900	Relative Permittivity (ϵ_r):	39.69	41.76	-4.95	5
		e''	21.3100	Conductivity (σ):	0.94	0.90	4.45	5
7/9/2015	Body 750	e'	53.6000	Relative Permittivity (ϵ_r):	53.60	55.55	-3.50	5
		e''	23.4700	Conductivity (σ):	0.98	0.96	1.63	5
	Body 700	e'	53.8700	Relative Permittivity (ϵ_r):	53.87	55.74	-3.35	5
		e''	24.1100	Conductivity (σ):	0.94	0.96	-2.17	5
	Body 790	e'	52.9800	Relative Permittivity (ϵ_r):	52.98	55.39	-4.35	5
		e''	23.0400	Conductivity (σ):	1.01	0.97	4.75	5
7/27/2015	Head 750	e'	40.4600	Relative Permittivity (ϵ_r):	40.46	41.96	-3.58	5
		e''	21.5000	Conductivity (σ):	0.90	0.89	0.39	5
	Head 700	e'	41.1400	Relative Permittivity (ϵ_r):	41.14	42.22	-2.55	5
		e''	21.9000	Conductivity (σ):	0.85	0.89	-4.14	5
	Head 790	e'	39.9400	Relative Permittivity (ϵ_r):	39.94	41.76	-4.35	5
		e''	21.2300	Conductivity (σ):	0.93	0.90	4.06	5
7/27/2015	Body 750	e'	53.5600	Relative Permittivity (ϵ_r):	53.56	55.55	-3.58	5
		e''	23.2600	Conductivity (σ):	0.97	0.96	0.72	5
	Body 700	e'	54.1200	Relative Permittivity (ϵ_r):	54.12	55.74	-2.90	5
		e''	23.7100	Conductivity (σ):	0.92	0.96	-3.79	5
	Body 790	e'	53.1100	Relative Permittivity (ϵ_r):	53.11	55.39	-4.12	5
		e''	22.9600	Conductivity (σ):	1.01	0.97	4.39	5
7/27/2015	Head 1750	e'	38.3800	Relative Permittivity (ϵ_r):	38.38	40.08	-4.25	5
		e''	14.0000	Conductivity (σ):	1.36	1.37	-0.49	5
	Head 1710	e'	38.5800	Relative Permittivity (ϵ_r):	38.58	40.15	-3.90	5
		e''	13.8900	Conductivity (σ):	1.32	1.35	-1.91	5
	Head 1755	e'	38.3600	Relative Permittivity (ϵ_r):	38.36	40.08	-4.28	5
		e''	14.0200	Conductivity (σ):	1.37	1.37	-0.27	5

SAR Lab B

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/8/2015	Head 2450	e'	39.3200	Relative Permittivity (ϵ_r):	39.32	39.20	0.31	5
		e''	13.6500	Conductivity (σ):	1.86	1.80	3.31	5
	Head 2410	e'	39.3800	Relative Permittivity (ϵ_r):	39.38	39.28	0.26	5
		e''	13.5400	Conductivity (σ):	1.81	1.76	3.07	5
	Head 2475	e'	39.1300	Relative Permittivity (ϵ_r):	39.13	39.17	-0.10	5
		e''	13.5800	Conductivity (σ):	1.87	1.83	2.29	5
6/8/2015	Body 2450	e'	51.1100	Relative Permittivity (ϵ_r):	51.11	52.70	-3.02	5
		e''	14.8100	Conductivity (σ):	2.02	1.95	3.46	5
	Body 2410	e'	51.1500	Relative Permittivity (ϵ_r):	51.15	52.76	-3.05	5
		e''	14.7100	Conductivity (σ):	1.97	1.91	3.34	5
	Body 2475	e'	50.9200	Relative Permittivity (ϵ_r):	50.92	52.67	-3.32	5
		e''	14.6400	Conductivity (σ):	2.01	1.99	1.49	5
6/11/2015	Head 2450	e'	39.1700	Relative Permittivity (ϵ_r):	39.17	39.20	-0.08	5
		e''	12.7700	Conductivity (σ):	1.74	1.80	-3.35	5
	Head 2410	e'	39.2800	Relative Permittivity (ϵ_r):	39.28	39.28	0.00	5
		e''	12.6700	Conductivity (σ):	1.70	1.76	-3.56	5
	Head 2475	e'	39.0800	Relative Permittivity (ϵ_r):	39.08	39.17	-0.23	5
		e''	12.7800	Conductivity (σ):	1.76	1.83	-3.74	5
6/11/2015	Body 2450	e'	51.3700	Relative Permittivity (ϵ_r):	51.37	52.70	-2.52	5
		e''	14.1800	Conductivity (σ):	1.93	1.95	-0.94	5
	Body 2410	e'	51.4400	Relative Permittivity (ϵ_r):	51.44	52.76	-2.50	5
		e''	14.0900	Conductivity (σ):	1.89	1.91	-1.02	5
	Body 2475	e'	51.3200	Relative Permittivity (ϵ_r):	51.32	52.67	-2.56	5
		e''	14.2000	Conductivity (σ):	1.95	1.99	-1.56	5
6/15/2015	Head 2450	e'	38.1900	Relative Permittivity (ϵ_r):	38.19	39.20	-2.58	5
		e''	13.5500	Conductivity (σ):	1.85	1.80	2.55	5
	Head 2410	e'	38.3200	Relative Permittivity (ϵ_r):	38.32	39.28	-2.44	5
		e''	13.4600	Conductivity (σ):	1.80	1.76	2.46	5
	Head 2475	e'	38.1100	Relative Permittivity (ϵ_r):	38.11	39.17	-2.70	5
		e''	13.6000	Conductivity (σ):	1.87	1.83	2.44	5
6/15/2015	Body 2450	e'	52.0900	Relative Permittivity (ϵ_r):	52.09	52.70	-1.16	5
		e''	14.8200	Conductivity (σ):	2.02	1.95	3.53	5
	Body 2410	e'	52.2000	Relative Permittivity (ϵ_r):	52.20	52.76	-1.06	5
		e''	14.7500	Conductivity (σ):	1.98	1.91	3.62	5
	Body 2475	e'	52.0400	Relative Permittivity (ϵ_r):	52.04	52.67	-1.19	5
		e''	14.8500	Conductivity (σ):	2.04	1.99	2.95	5
6/18/2015	Body 2450	e'	51.2400	Relative Permittivity (ϵ_r):	51.24	52.70	-2.77	5
		e''	14.1900	Conductivity (σ):	1.93	1.95	-0.87	5
	Body 2410	e'	51.3200	Relative Permittivity (ϵ_r):	51.32	52.76	-2.73	5
		e''	14.0500	Conductivity (σ):	1.88	1.91	-1.30	5
	Body 2475	e'	51.1900	Relative Permittivity (ϵ_r):	51.19	52.67	-2.81	5
		e''	14.2400	Conductivity (σ):	1.96	1.99	-1.28	5
6/18/2015	Head 2450	e'	39.2600	Relative Permittivity (ϵ_r):	39.26	39.20	0.15	5
		e''	13.6100	Conductivity (σ):	1.85	1.80	3.00	5
	Head 2410	e'	39.3800	Relative Permittivity (ϵ_r):	39.38	39.28	0.26	5
		e''	13.4500	Conductivity (σ):	1.80	1.76	2.38	5
	Head 2475	e'	39.1800	Relative Permittivity (ϵ_r):	39.18	39.17	0.03	5
		e''	13.6800	Conductivity (σ):	1.88	1.83	3.04	5
6/18/2015	Body 835	e'	53.4200	Relative Permittivity (ϵ_r):	53.42	55.20	-3.22	5
		e''	21.4600	Conductivity (σ):	1.00	0.97	2.72	5
	Body 820	e'	53.6000	Relative Permittivity (ϵ_r):	53.60	55.28	-3.03	5
		e''	21.4900	Conductivity (σ):	0.98	0.97	1.17	5
	Body 850	e'	53.2800	Relative Permittivity (ϵ_r):	53.28	55.16	-3.40	5
		e''	21.4200	Conductivity (σ):	1.01	0.99	2.56	5

SAR Lab B (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/22/2015	Body 835	e'	53.1700	Relative Permittivity (ϵ_r):	53.17	55.20	-3.68	5
		e"	21.3600	Conductivity (σ):	0.99	0.97	2.24	5
	Body 820	e'	53.3500	Relative Permittivity (ϵ_r):	53.35	55.28	-3.49	5
		e"	21.4500	Conductivity (σ):	0.98	0.97	0.99	5
	Body 850	e'	53.0100	Relative Permittivity (ϵ_r):	53.01	55.16	-3.89	5
		e"	21.3200	Conductivity (σ):	1.01	0.99	2.08	5
6/22/2015	Head 2450	e'	38.5400	Relative Permittivity (ϵ_r):	38.54	39.20	-1.68	5
		e"	13.6700	Conductivity (σ):	1.86	1.80	3.46	5
	Head 2410	e'	38.6800	Relative Permittivity (ϵ_r):	38.68	39.28	-1.53	5
		e"	13.5900	Conductivity (σ):	1.82	1.76	3.45	5
	Head 2475	e'	38.4600	Relative Permittivity (ϵ_r):	38.46	39.17	-1.81	5
		e"	13.7100	Conductivity (σ):	1.89	1.83	3.27	5
6/23/2015	Body 2450	e'	50.6800	Relative Permittivity (ϵ_r):	50.68	52.70	-3.83	5
		e"	14.8400	Conductivity (σ):	2.02	1.95	3.67	5
	Body 2410	e'	50.8000	Relative Permittivity (ϵ_r):	50.80	52.76	-3.71	5
		e"	14.7700	Conductivity (σ):	1.98	1.91	3.76	5
	Body 2475	e'	50.6200	Relative Permittivity (ϵ_r):	50.62	52.67	-3.89	5
		e"	14.8700	Conductivity (σ):	2.05	1.99	3.08	5
6/25/2015	Head 2450	e'	39.7700	Relative Permittivity (ϵ_r):	39.77	39.20	1.45	5
		e"	13.6600	Conductivity (σ):	1.86	1.80	3.38	5
	Head 2410	e'	39.9100	Relative Permittivity (ϵ_r):	39.91	39.28	1.61	5
		e"	13.5800	Conductivity (σ):	1.82	1.76	3.37	5
	Head 2475	e'	39.6600	Relative Permittivity (ϵ_r):	39.66	39.17	1.25	5
		e"	13.7300	Conductivity (σ):	1.89	1.83	3.42	5
6/25/2015	Body 2450	e'	52.4500	Relative Permittivity (ϵ_r):	52.45	52.70	-0.47	5
		e"	14.5200	Conductivity (σ):	1.98	1.95	1.44	5
	Body 2410	e'	52.7600	Relative Permittivity (ϵ_r):	52.76	52.76	0.00	5
		e"	14.4700	Conductivity (σ):	1.94	1.91	1.65	5
	Body 2475	e'	52.3100	Relative Permittivity (ϵ_r):	52.31	52.67	-0.68	5
		e"	14.5700	Conductivity (σ):	2.01	1.99	1.01	5
6/29/2015	Head 2450	e'	39.3900	Relative Permittivity (ϵ_r):	39.39	39.20	0.48	5
		e"	13.7400	Conductivity (σ):	1.87	1.80	3.99	5
	Head 2410	e'	39.4400	Relative Permittivity (ϵ_r):	39.44	39.28	0.41	5
		e"	13.6700	Conductivity (σ):	1.83	1.76	4.06	5
	Head 2475	e'	39.4000	Relative Permittivity (ϵ_r):	39.40	39.17	0.59	5
		e"	13.8000	Conductivity (σ):	1.90	1.83	3.95	5
6/29/2015	Body 2450	e'	51.6800	Relative Permittivity (ϵ_r):	51.68	52.70	-1.94	5
		e"	14.1100	Conductivity (σ):	1.92	1.95	-1.43	5
	Body 2410	e'	51.8000	Relative Permittivity (ϵ_r):	51.80	52.76	-1.82	5
		e"	14.0300	Conductivity (σ):	1.88	1.91	-1.44	5
	Body 2475	e'	51.6100	Relative Permittivity (ϵ_r):	51.61	52.67	-2.01	5
		e"	14.1700	Conductivity (σ):	1.95	1.99	-1.77	5
6/30/2015	Body 835	e'	53.3100	Relative Permittivity (ϵ_r):	53.31	55.20	-3.42	5
		e"	21.1400	Conductivity (σ):	0.98	0.97	1.19	5
	Body 820	e'	53.4100	Relative Permittivity (ϵ_r):	53.41	55.28	-3.38	5
		e"	21.1800	Conductivity (σ):	0.97	0.97	-0.29	5
	Body 850	e'	52.8000	Relative Permittivity (ϵ_r):	52.80	55.16	-4.27	5
		e"	21.0600	Conductivity (σ):	1.00	0.99	0.83	5
7/2/2015	Head 2450	e'	37.8900	Relative Permittivity (ϵ_r):	37.89	39.20	-3.34	5
		e"	13.7400	Conductivity (σ):	1.87	1.80	3.99	5
	Head 2410	e'	38.0000	Relative Permittivity (ϵ_r):	38.00	39.28	-3.26	5
		e"	13.6300	Conductivity (σ):	1.83	1.76	3.75	5
	Head 2475	e'	37.8200	Relative Permittivity (ϵ_r):	37.82	39.17	-3.44	5
		e"	13.7900	Conductivity (σ):	1.90	1.83	3.87	5

SAR Lab B (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
7/6/2015	Head 2450	e'	38.7900	Relative Permittivity (ϵ_r):	38.79	39.20	-1.05	5
		e"	12.9100	Conductivity (σ):	1.76	1.80	-2.29	5
	Head 2410	e'	39.8500	Relative Permittivity (ϵ_r):	39.85	39.28	1.45	5
		e"	13.1100	Conductivity (σ):	1.76	1.76	-0.21	5
	Head 2475	e'	38.0800	Relative Permittivity (ϵ_r):	38.08	39.17	-2.78	5
		e"	12.7100	Conductivity (σ):	1.75	1.83	-4.26	5
7/6/2015	Body 2450	e'	52.1000	Relative Permittivity (ϵ_r):	52.10	52.70	-1.14	5
		e"	14.4400	Conductivity (σ):	1.97	1.95	0.88	5
	Body 2410	e'	52.2300	Relative Permittivity (ϵ_r):	52.23	52.76	-1.00	5
		e"	14.3400	Conductivity (σ):	1.92	1.91	0.74	5
	Body 2475	e'	52.0500	Relative Permittivity (ϵ_r):	52.05	52.67	-1.17	5
		e"	14.4500	Conductivity (σ):	1.99	1.99	0.17	5
7/6/2015	Body 835	e'	53.3700	Relative Permittivity (ϵ_r):	53.37	55.20	-3.32	5
		e"	21.3000	Conductivity (σ):	0.99	0.97	1.95	5
	Body 820	e'	53.5300	Relative Permittivity (ϵ_r):	53.53	55.28	-3.16	5
		e"	21.4100	Conductivity (σ):	0.98	0.97	0.80	5
	Body 850	e'	53.2200	Relative Permittivity (ϵ_r):	53.22	55.16	-3.51	5
		e"	21.2400	Conductivity (σ):	1.00	0.99	1.69	5
7/9/2015	Head 2450	e'	39.8900	Relative Permittivity (ϵ_r):	39.89	39.20	1.76	5
		e"	13.5700	Conductivity (σ):	1.85	1.80	2.70	5
	Head 2410	e'	40.0500	Relative Permittivity (ϵ_r):	40.05	39.28	1.96	5
		e"	13.4700	Conductivity (σ):	1.81	1.76	2.53	5
	Head 2475	e'	39.7800	Relative Permittivity (ϵ_r):	39.78	39.17	1.56	5
		e"	13.6100	Conductivity (σ):	1.87	1.83	2.52	5
7/9/2015	Body 2450	e'	51.4300	Relative Permittivity (ϵ_r):	51.43	52.70	-2.41	5
		e"	14.5500	Conductivity (σ):	1.98	1.95	1.65	5
	Body 2410	e'	51.4800	Relative Permittivity (ϵ_r):	51.48	52.76	-2.42	5
		e"	14.4300	Conductivity (σ):	1.93	1.91	1.37	5
	Body 2475	e'	51.3700	Relative Permittivity (ϵ_r):	51.37	52.67	-2.47	5
		e"	14.6000	Conductivity (σ):	2.01	1.99	1.21	5
7/27/2015	Head 1900	e'	39.6600	Relative Permittivity (ϵ_r):	39.66	40.00	-0.85	5
		e"	13.6900	Conductivity (σ):	1.45	1.40	3.31	5
	Head 1850	e'	39.9100	Relative Permittivity (ϵ_r):	39.91	40.00	-0.23	5
		e"	13.5400	Conductivity (σ):	1.39	1.40	-0.51	5
	Head 1910	e'	39.6400	Relative Permittivity (ϵ_r):	39.64	40.00	-0.90	5
		e"	13.6600	Conductivity (σ):	1.45	1.40	3.62	5

SAR Lab C

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/19/2015	Head 835	e'	40.2100	Relative Permittivity (ϵ_r):	40.21	41.50	-3.11	5
		e''	19.1400	Conductivity (σ):	0.89	0.90	-1.26	5
	Head 820	e'	40.4300	Relative Permittivity (ϵ_r):	40.43	41.60	-2.82	5
		e''	19.1400	Conductivity (σ):	0.87	0.90	-2.87	5
	Head 850	e'	40.0200	Relative Permittivity (ϵ_r):	40.02	41.50	-3.57	5
		e''	19.1000	Conductivity (σ):	0.90	0.92	-1.34	5
6/22/2015	Head 835	e'	41.5000	Relative Permittivity (ϵ_r):	41.50	41.50	0.00	5
		e''	19.2600	Conductivity (σ):	0.89	0.90	-0.64	5
	Head 820	e'	41.7300	Relative Permittivity (ϵ_r):	41.73	41.60	0.31	5
		e''	19.3800	Conductivity (σ):	0.88	0.90	-1.65	5
	Head 850	e'	41.2900	Relative Permittivity (ϵ_r):	41.29	41.50	-0.51	5
		e''	19.2500	Conductivity (σ):	0.91	0.92	-0.57	5
6/25/2015	Head 835	e'	39.7700	Relative Permittivity (ϵ_r):	39.77	41.50	-4.17	5
		e''	20.2800	Conductivity (σ):	0.94	0.90	4.62	5
	Head 820	e'	39.9500	Relative Permittivity (ϵ_r):	39.95	41.60	-3.97	5
		e''	20.2900	Conductivity (σ):	0.93	0.90	2.97	5
	Head 850	e'	39.5800	Relative Permittivity (ϵ_r):	39.58	41.50	-4.63	5
		e''	20.1900	Conductivity (σ):	0.95	0.92	4.29	5
6/29/2015	Head 835	e'	40.4500	Relative Permittivity (ϵ_r):	40.45	41.50	-2.53	5
		e''	19.3200	Conductivity (σ):	0.90	0.90	-0.33	5
	Head 820	e'	40.6300	Relative Permittivity (ϵ_r):	40.63	41.60	-2.34	5
		e''	19.3100	Conductivity (σ):	0.88	0.90	-2.01	5
	Head 850	e'	40.2300	Relative Permittivity (ϵ_r):	40.23	41.50	-3.06	5
		e''	19.2200	Conductivity (σ):	0.91	0.92	-0.72	5
7/27/2015	Head 835	e'	40.8700	Relative Permittivity (ϵ_r):	40.87	41.50	-1.52	5
		e''	19.6900	Conductivity (σ):	0.91	0.90	1.58	5
	Head 820	e'	41.0700	Relative Permittivity (ϵ_r):	41.07	41.60	-1.28	5
		e''	19.9000	Conductivity (σ):	0.91	0.90	0.99	5
	Head 850	e'	40.8600	Relative Permittivity (ϵ_r):	40.86	41.50	-1.54	5
		e''	19.6700	Conductivity (σ):	0.93	0.92	1.60	5
7/27/2015	Body 835	e'	54.7700	Relative Permittivity (ϵ_r):	54.77	55.20	-0.78	5
		e''	21.8900	Conductivity (σ):	1.02	0.97	4.78	5
	Body 820	e'	54.8600	Relative Permittivity (ϵ_r):	54.86	55.28	-0.75	5
		e''	22.0500	Conductivity (σ):	1.01	0.97	3.81	5
	Body 850	e'	54.7500	Relative Permittivity (ϵ_r):	54.75	55.16	-0.74	5
		e''	21.7100	Conductivity (σ):	1.03	0.99	3.94	5

SAR Lab E

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/8/2015	Head 2600	e'	38.2400	Relative Permittivity (ϵ_r):	38.24	39.01	-1.98	5
		e''	14.0300	Conductivity (σ):	2.03	1.96	3.37	5
	Head 2500	e'	38.6200	Relative Permittivity (ϵ_r):	38.62	39.14	-1.32	5
		e''	13.8800	Conductivity (σ):	1.93	1.85	4.07	5
	Head 2700	e'	37.8600	Relative Permittivity (ϵ_r):	37.86	38.88	-2.64	5
		e''	14.2300	Conductivity (σ):	2.14	2.07	3.19	5
6/8/2015	Body 2600	e'	51.4400	Relative Permittivity (ϵ_r):	51.44	52.51	-2.04	5
		e''	15.1500	Conductivity (σ):	2.19	2.16	1.36	5
	Body 2500	e'	51.7000	Relative Permittivity (ϵ_r):	51.70	52.64	-1.78	5
		e''	15.0300	Conductivity (σ):	2.09	2.02	3.42	5
	Body 2700	e'	51.1800	Relative Permittivity (ϵ_r):	51.18	52.38	-2.30	5
		e''	15.3700	Conductivity (σ):	2.31	2.30	0.27	5
6/11/2015	Head 2600	e'	39.0700	Relative Permittivity (ϵ_r):	39.07	39.01	0.15	5
		e''	13.9600	Conductivity (σ):	2.02	1.96	2.85	5
	Head 2500	e'	39.4700	Relative Permittivity (ϵ_r):	39.47	39.14	0.85	5
		e''	13.7600	Conductivity (σ):	1.91	1.85	3.17	5
	Head 2700	e'	38.6600	Relative Permittivity (ϵ_r):	38.66	38.88	-0.58	5
		e''	14.1000	Conductivity (σ):	2.12	2.07	2.25	5
6/11/2015	Body 2600	e'	51.5000	Relative Permittivity (ϵ_r):	51.50	52.51	-1.92	5
		e''	15.0700	Conductivity (σ):	2.18	2.16	0.83	5
	Body 2500	e'	51.8300	Relative Permittivity (ϵ_r):	51.83	52.64	-1.53	5
		e''	14.8700	Conductivity (σ):	2.07	2.02	2.32	5
	Body 2700	e'	51.1500	Relative Permittivity (ϵ_r):	51.15	52.38	-2.36	5
		e''	15.2400	Conductivity (σ):	2.29	2.30	-0.58	5
6/15/2015	Head 2600	e'	38.1500	Relative Permittivity (ϵ_r):	38.15	39.01	-2.21	5
		e''	13.6000	Conductivity (σ):	1.97	1.96	0.20	5
	Head 2500	e'	38.3000	Relative Permittivity (ϵ_r):	38.30	39.14	-2.14	5
		e''	13.3100	Conductivity (σ):	1.85	1.85	-0.21	5
	Head 2700	e'	37.7500	Relative Permittivity (ϵ_r):	37.75	38.88	-2.92	5
		e''	13.8000	Conductivity (σ):	2.07	2.07	0.07	5
6/15/2015	Body 2600	e'	51.1200	Relative Permittivity (ϵ_r):	51.12	52.51	-2.65	5
		e''	14.8100	Conductivity (σ):	2.14	2.16	-0.91	5
	Body 2500	e'	51.4600	Relative Permittivity (ϵ_r):	51.46	52.64	-2.24	5
		e''	14.6100	Conductivity (σ):	2.03	2.02	0.53	5
	Body 2700	e'	50.8200	Relative Permittivity (ϵ_r):	50.82	52.38	-2.99	5
		e''	15.0300	Conductivity (σ):	2.26	2.30	-1.95	5
6/18/2015	Head 2600	e'	39.7800	Relative Permittivity (ϵ_r):	39.78	39.01	1.97	5
		e''	13.2200	Conductivity (σ):	1.91	1.96	-2.60	5
	Head 2500	e'	40.1600	Relative Permittivity (ϵ_r):	40.16	39.14	2.61	5
		e''	12.9400	Conductivity (σ):	1.80	1.85	-2.98	5
	Head 2700	e'	39.4600	Relative Permittivity (ϵ_r):	39.46	38.88	1.48	5
		e''	13.4400	Conductivity (σ):	2.02	2.07	-2.54	5
6/18/2015	Body 2600	e'	50.9100	Relative Permittivity (ϵ_r):	50.91	52.51	-3.05	5
		e''	14.5900	Conductivity (σ):	2.11	2.16	-2.39	5
	Body 2500	e'	51.2100	Relative Permittivity (ϵ_r):	51.21	52.64	-2.71	5
		e''	14.3200	Conductivity (σ):	1.99	2.02	-1.47	5
	Body 2700	e'	50.6400	Relative Permittivity (ϵ_r):	50.64	52.38	-3.33	5
		e''	14.8000	Conductivity (σ):	2.22	2.30	-3.45	5

SAR Lab E (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/22/2015	Head 2600	e'	39.7100	Relative Permittivity (ϵ_r):	39.71	39.01	1.79	5
		e''	13.7900	Conductivity (σ):	1.99	1.96	1.60	5
	Head 2500	e'	40.0100	Relative Permittivity (ϵ_r):	40.01	39.14	2.23	5
		e''	13.5100	Conductivity (σ):	1.88	1.85	1.29	5
	Head 2700	e'	39.2800	Relative Permittivity (ϵ_r):	39.28	38.88	1.02	5
		e''	14.0400	Conductivity (σ):	2.11	2.07	1.81	5
6/22/2015	Body 2600	e'	50.5300	Relative Permittivity (ϵ_r):	50.53	52.51	-3.77	5
		e''	14.9100	Conductivity (σ):	2.16	2.16	-0.25	5
	Body 2500	e'	50.7500	Relative Permittivity (ϵ_r):	50.75	52.64	-3.58	5
		e''	14.6500	Conductivity (σ):	2.04	2.02	0.80	5
	Body 2700	e'	50.1600	Relative Permittivity (ϵ_r):	50.16	52.38	-4.25	5
		e''	15.2100	Conductivity (σ):	2.28	2.30	-0.78	5
6/25/2015	Head 2600	e'	38.9400	Relative Permittivity (ϵ_r):	38.94	39.01	-0.18	5
		e''	13.7800	Conductivity (σ):	1.99	1.96	1.53	5
	Head 2500	e'	39.3000	Relative Permittivity (ϵ_r):	39.30	39.14	0.42	5
		e''	13.5500	Conductivity (σ):	1.88	1.85	1.59	5
	Head 2700	e'	38.6300	Relative Permittivity (ϵ_r):	38.63	38.88	-0.65	5
		e''	13.9400	Conductivity (σ):	2.09	2.07	1.09	5
6/25/2015	Body 2600	e'	51.3800	Relative Permittivity (ϵ_r):	51.38	52.51	-2.15	5
		e''	14.8900	Conductivity (σ):	2.15	2.16	-0.38	5
	Body 2500	e'	51.7700	Relative Permittivity (ϵ_r):	51.77	52.64	-1.65	5
		e''	14.6800	Conductivity (σ):	2.04	2.02	1.01	5
	Body 2700	e'	51.0900	Relative Permittivity (ϵ_r):	51.09	52.38	-2.47	5
		e''	15.1500	Conductivity (σ):	2.27	2.30	-1.17	5
6/29/2015	Head 2600	e'	38.0600	Relative Permittivity (ϵ_r):	38.06	39.01	-2.44	5
		e''	13.3800	Conductivity (σ):	1.93	1.96	-1.42	5
	Head 2500	e'	38.4600	Relative Permittivity (ϵ_r):	38.46	39.14	-1.73	5
		e''	13.2000	Conductivity (σ):	1.83	1.85	-1.03	5
	Head 2700	e'	37.7000	Relative Permittivity (ϵ_r):	37.70	38.88	-3.05	5
		e''	13.5700	Conductivity (σ):	2.04	2.07	-1.60	5
6/29/2015	Body 2600	e'	52.0900	Relative Permittivity (ϵ_r):	52.09	52.51	-0.80	5
		e''	14.7400	Conductivity (σ):	2.13	2.16	-1.38	5
	Body 2500	e'	52.3500	Relative Permittivity (ϵ_r):	52.35	52.64	-0.55	5
		e''	14.5100	Conductivity (σ):	2.02	2.02	-0.16	5
	Body 2700	e'	51.7800	Relative Permittivity (ϵ_r):	51.78	52.38	-1.15	5
		e''	14.9500	Conductivity (σ):	2.24	2.30	-2.47	5
6/30/2015	Body 1900	e'	51.5900	Relative Permittivity (ϵ_r):	51.59	53.30	-3.21	5
		e''	14.7800	Conductivity (σ):	1.56	1.52	2.73	5
	Body 1850	e'	51.7900	Relative Permittivity (ϵ_r):	51.79	53.30	-2.83	5
		e''	14.6800	Conductivity (σ):	1.51	1.52	-0.65	5
	Body 1910	e'	51.5500	Relative Permittivity (ϵ_r):	51.55	53.30	-3.28	5
		e''	14.7900	Conductivity (σ):	1.57	1.52	3.34	5
7/2/2015	Head 2600	e'	38.1000	Relative Permittivity (ϵ_r):	38.10	39.01	-2.33	5
		e''	13.6300	Conductivity (σ):	1.97	1.96	0.42	5
	Head 2500	e'	38.4600	Relative Permittivity (ϵ_r):	38.46	39.14	-1.73	5
		e''	13.4100	Conductivity (σ):	1.86	1.85	0.54	5
	Head 2700	e'	37.7500	Relative Permittivity (ϵ_r):	37.75	38.88	-2.92	5
		e''	13.8000	Conductivity (σ):	2.07	2.07	0.07	5
7/2/2015	Body 2600	e'	52.5200	Relative Permittivity (ϵ_r):	52.52	52.51	0.02	5
		e''	14.7100	Conductivity (σ):	2.13	2.16	-1.58	5
	Body 2500	e'	52.8500	Relative Permittivity (ϵ_r):	52.85	52.64	0.40	5
		e''	14.5100	Conductivity (σ):	2.02	2.02	-0.16	5
	Body 2700	e'	52.1200	Relative Permittivity (ϵ_r):	52.12	52.38	-0.51	5
		e''	14.8900	Conductivity (σ):	2.24	2.30	-2.87	5

SAR Lab E (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
7/3/2015	Body 835	e'	55.2100	Relative Permittivity (ϵ_r):	55.21	55.20	0.02	5
		e"	21.3900	Conductivity (σ):	0.99	0.97	2.38	5
	Body 820	e'	55.3500	Relative Permittivity (ϵ_r):	55.35	55.28	0.13	5
		e"	21.4400	Conductivity (σ):	0.98	0.97	0.94	5
	Body 850	e'	55.0000	Relative Permittivity (ϵ_r):	55.00	55.16	-0.28	5
		e"	20.8100	Conductivity (σ):	0.98	0.99	-0.37	5
7/6/2015	Body 835	e'	53.3700	Relative Permittivity (ϵ_r):	53.37	55.20	-3.32	5
		e"	21.7000	Conductivity (σ):	1.01	0.97	3.87	5
	Body 820	e'	53.5000	Relative Permittivity (ϵ_r):	53.50	55.28	-3.21	5
		e"	21.6900	Conductivity (σ):	0.99	0.97	2.12	5
	Body 850	e'	53.2900	Relative Permittivity (ϵ_r):	53.29	55.16	-3.39	5
		e"	21.5600	Conductivity (σ):	1.02	0.99	3.23	5
7/9/2015	Body 835	e'	54.4000	Relative Permittivity (ϵ_r):	54.40	55.20	-1.45	5
		e"	21.7800	Conductivity (σ):	1.01	0.97	4.25	5
	Body 820	e'	54.6300	Relative Permittivity (ϵ_r):	54.63	55.28	-1.17	5
		e"	22.0300	Conductivity (σ):	1.00	0.97	3.72	5
	Body 850	e'	54.3600	Relative Permittivity (ϵ_r):	54.36	55.16	-1.45	5
		e"	21.8400	Conductivity (σ):	1.03	0.99	4.57	5
7/27/2015	Head 2600	e'	40.2400	Relative Permittivity (ϵ_r):	40.24	39.01	3.15	5
		e"	14.1800	Conductivity (σ):	2.05	1.96	4.48	5
	Head 2500	e'	40.6000	Relative Permittivity (ϵ_r):	40.60	39.14	3.74	5
		e"	13.9500	Conductivity (σ):	1.94	1.85	4.59	5
	Head 2700	e'	39.9200	Relative Permittivity (ϵ_r):	39.92	38.88	2.66	5
		e"	14.3800	Conductivity (σ):	2.16	2.07	4.28	5

SAR Lab F

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/11/2015	Head 5180	e'	35.7500	Relative Permittivity (ϵ_r):	35.75	36.01	-0.73	5
		e"	15.5300	Conductivity (σ):	4.47	4.63	-3.40	5
	Head 5200	e'	35.6800	Relative Permittivity (ϵ_r):	35.68	35.99	-0.86	5
		e"	15.5100	Conductivity (σ):	4.48	4.65	-3.58	5
	Head 5600	e'	35.1400	Relative Permittivity (ϵ_r):	35.14	35.53	-1.11	5
		e"	15.7000	Conductivity (σ):	4.89	5.06	-3.39	5
	Head 5800	e'	34.8900	Relative Permittivity (ϵ_r):	34.89	35.30	-1.16	5
		e"	15.8100	Conductivity (σ):	5.10	5.27	-3.25	5
Head 5825	e'	34.8600	Relative Permittivity (ϵ_r):	34.86	35.30	-1.25	5	
	e"	15.8200	Conductivity (σ):	5.12	5.27	-2.77	5	
6/11/2015	Body 5180	e'	49.8600	Relative Permittivity (ϵ_r):	49.86	49.05	1.66	5
		e"	18.5900	Conductivity (σ):	5.35	5.27	1.57	5
	Body 5200	e'	49.7000	Relative Permittivity (ϵ_r):	49.70	49.02	1.39	5
		e"	18.6500	Conductivity (σ):	5.39	5.29	1.84	5
	Body 5600	e'	49.1100	Relative Permittivity (ϵ_r):	49.11	48.48	1.30	5
		e"	18.7800	Conductivity (σ):	5.85	5.76	1.50	5
	Body 5800	e'	48.8600	Relative Permittivity (ϵ_r):	48.86	48.20	1.37	5
		e"	19.0100	Conductivity (σ):	6.13	6.00	2.18	5
Body 5825	e'	48.8400	Relative Permittivity (ϵ_r):	48.84	48.20	1.33	5	
	e"	19.0900	Conductivity (σ):	6.18	6.00	3.05	5	
6/15/2015	Head 5180	e'	35.2400	Relative Permittivity (ϵ_r):	35.24	36.01	-2.15	5
		e"	16.3600	Conductivity (σ):	4.71	4.63	1.76	5
	Head 5200	e'	35.2100	Relative Permittivity (ϵ_r):	35.21	35.99	-2.17	5
		e"	16.3600	Conductivity (σ):	4.73	4.65	1.70	5
	Head 5600	e'	34.6800	Relative Permittivity (ϵ_r):	34.68	35.53	-2.40	5
		e"	16.3600	Conductivity (σ):	5.09	5.06	0.67	5
	Head 5800	e'	34.4300	Relative Permittivity (ϵ_r):	34.43	35.30	-2.46	5
		e"	16.4100	Conductivity (σ):	5.29	5.27	0.42	5
Head 5825	e'	34.3900	Relative Permittivity (ϵ_r):	34.39	35.30	-2.58	5	
	e"	16.4500	Conductivity (σ):	5.33	5.27	1.10	5	
6/15/2015	Body 5180	e'	47.9700	Relative Permittivity (ϵ_r):	47.97	49.05	-2.20	5
		e"	18.4100	Conductivity (σ):	5.30	5.27	0.59	5
	Body 5200	e'	47.9500	Relative Permittivity (ϵ_r):	47.95	49.02	-2.18	5
		e"	18.4000	Conductivity (σ):	5.32	5.29	0.48	5
	Body 5600	e'	47.3700	Relative Permittivity (ϵ_r):	47.37	48.48	-2.29	5
		e"	18.6500	Conductivity (σ):	5.81	5.76	0.80	5
	Body 5800	e'	47.1300	Relative Permittivity (ϵ_r):	47.13	48.20	-2.22	5
		e"	18.8500	Conductivity (σ):	6.08	6.00	1.32	5
Body 5825	e'	47.0600	Relative Permittivity (ϵ_r):	47.06	48.20	-2.37	5	
	e"	18.9000	Conductivity (σ):	6.12	6.00	2.02	5	
6/18/2015	Head 5180	e'	36.0500	Relative Permittivity (ϵ_r):	36.05	36.01	0.10	5
		e"	15.6900	Conductivity (σ):	4.52	4.63	-2.41	5
	Head 5200	e'	35.9900	Relative Permittivity (ϵ_r):	35.99	35.99	0.00	5
		e"	15.6800	Conductivity (σ):	4.53	4.65	-2.52	5
	Head 5600	e'	35.4600	Relative Permittivity (ϵ_r):	35.46	35.53	-0.21	5
		e"	15.8700	Conductivity (σ):	4.94	5.06	-2.35	5
	Head 5800	e'	35.2000	Relative Permittivity (ϵ_r):	35.20	35.30	-0.28	5
		e"	15.9700	Conductivity (σ):	5.15	5.27	-2.27	5
Head 5825	e'	35.1700	Relative Permittivity (ϵ_r):	35.17	35.30	-0.37	5	
	e"	16.0000	Conductivity (σ):	5.18	5.27	-1.67	5	

SAR Lab F (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/18/2015	Body 5180	e'	47.6900	Relative Permittivity (ϵ_r):	47.69	49.05	-2.77	5
		e"	18.1100	Conductivity (σ):	5.22	5.27	-1.05	5
	Body 5200	e'	47.6800	Relative Permittivity (ϵ_r):	47.68	49.02	-2.73	5
		e"	18.1200	Conductivity (σ):	5.24	5.29	-1.05	5
	Body 5600	e'	47.0200	Relative Permittivity (ϵ_r):	47.02	48.48	-3.01	5
		e"	18.4100	Conductivity (σ):	5.73	5.76	-0.50	5
	Body 5800	e'	46.7800	Relative Permittivity (ϵ_r):	46.78	48.20	-2.95	5
		e"	18.6300	Conductivity (σ):	6.01	6.00	0.14	5
Body 5825	e'	46.7500	Relative Permittivity (ϵ_r):	46.75	48.20	-3.01	5	
	e"	18.6500	Conductivity (σ):	6.04	6.00	0.68	5	
6/22/2015	Head 5180	e'	34.9800	Relative Permittivity (ϵ_r):	34.98	36.01	-2.87	5
		e"	15.6900	Conductivity (σ):	4.52	4.63	-2.41	5
	Head 5200	e'	34.9600	Relative Permittivity (ϵ_r):	34.96	35.99	-2.86	5
		e"	15.6900	Conductivity (σ):	4.54	4.65	-2.46	5
	Head 5600	e'	34.4200	Relative Permittivity (ϵ_r):	34.42	35.53	-3.13	5
		e"	15.8100	Conductivity (σ):	4.92	5.06	-2.71	5
	Head 5800	e'	34.2200	Relative Permittivity (ϵ_r):	34.22	35.30	-3.06	5
		e"	15.8900	Conductivity (σ):	5.12	5.27	-2.76	5
Head 5825	e'	34.2100	Relative Permittivity (ϵ_r):	34.21	35.30	-3.09	5	
	e"	15.9000	Conductivity (σ):	5.15	5.27	-2.28	5	
6/22/2015	Body 5180	e'	47.6100	Relative Permittivity (ϵ_r):	47.61	49.05	-2.93	5
		e"	18.7000	Conductivity (σ):	5.39	5.27	2.18	5
	Body 5200	e'	47.5600	Relative Permittivity (ϵ_r):	47.56	49.02	-2.98	5
		e"	18.7100	Conductivity (σ):	5.41	5.29	2.17	5
	Body 5600	e'	46.9200	Relative Permittivity (ϵ_r):	46.92	48.48	-3.21	5
		e"	18.8200	Conductivity (σ):	5.86	5.76	1.72	5
	Body 5800	e'	46.6700	Relative Permittivity (ϵ_r):	46.67	48.20	-3.17	5
		e"	19.0600	Conductivity (σ):	6.15	6.00	2.45	5
Body 5825	e'	46.6300	Relative Permittivity (ϵ_r):	46.63	48.20	-3.26	5	
	e"	19.0700	Conductivity (σ):	6.18	6.00	2.94	5	
6/25/2015	Head 5180	e'	36.4200	Relative Permittivity (ϵ_r):	36.42	36.01	1.13	5
		e"	15.9100	Conductivity (σ):	4.58	4.63	-1.04	5
	Head 5200	e'	36.3700	Relative Permittivity (ϵ_r):	36.37	35.99	1.06	5
		e"	15.9100	Conductivity (σ):	4.60	4.65	-1.09	5
	Head 5600	e'	35.7600	Relative Permittivity (ϵ_r):	35.76	35.53	0.64	5
		e"	16.1300	Conductivity (σ):	5.02	5.06	-0.75	5
	Head 5800	e'	35.4800	Relative Permittivity (ϵ_r):	35.48	35.30	0.51	5
		e"	16.1900	Conductivity (σ):	5.22	5.27	-0.93	5
Head 5825	e'	35.4700	Relative Permittivity (ϵ_r):	35.47	35.30	0.48	5	
	e"	16.2500	Conductivity (σ):	5.26	5.27	-0.13	5	
6/29/2015	Head 5180	e'	36.6100	Relative Permittivity (ϵ_r):	36.61	36.01	1.66	5
		e"	16.3300	Conductivity (σ):	4.70	4.63	1.57	5
	Head 5200	e'	36.6000	Relative Permittivity (ϵ_r):	36.60	35.99	1.69	5
		e"	16.3400	Conductivity (σ):	4.72	4.65	1.58	5
	Head 5600	e'	36.0000	Relative Permittivity (ϵ_r):	36.00	35.53	1.31	5
		e"	16.4200	Conductivity (σ):	5.11	5.06	1.04	5
	Head 5800	e'	35.7900	Relative Permittivity (ϵ_r):	35.79	35.30	1.39	5
		e"	16.5100	Conductivity (σ):	5.32	5.27	1.03	5
Head 5825	e'	35.7400	Relative Permittivity (ϵ_r):	35.74	35.30	1.25	5	
	e"	16.5200	Conductivity (σ):	5.35	5.27	1.53	5	

SAR Lab F (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/29/2015	Body 5180	e'	47.9000	Relative Permittivity (ϵ_r):	47.90	49.05	-2.34	5
		e"	18.0200	Conductivity (σ):	5.19	5.27	-1.54	5
	Body 5200	e'	47.9000	Relative Permittivity (ϵ_r):	47.90	49.02	-2.28	5
		e"	18.0100	Conductivity (σ):	5.21	5.29	-1.65	5
	Body 5600	e'	47.3100	Relative Permittivity (ϵ_r):	47.31	48.48	-2.41	5
		e"	18.3300	Conductivity (σ):	5.71	5.76	-0.93	5
	Body 5800	e'	47.0600	Relative Permittivity (ϵ_r):	47.06	48.20	-2.37	5
		e"	18.5100	Conductivity (σ):	5.97	6.00	-0.51	5
Body 5825	e'	47.0200	Relative Permittivity (ϵ_r):	47.02	48.20	-2.45	5	
	e"	18.5800	Conductivity (σ):	6.02	6.00	0.30	5	
7/2/2015	Head 5180	e'	35.9900	Relative Permittivity (ϵ_r):	35.99	36.01	-0.06	5
		e"	15.8400	Conductivity (σ):	4.56	4.63	-1.47	5
	Head 5200	e'	36.0100	Relative Permittivity (ϵ_r):	36.01	35.99	0.06	5
		e"	15.8600	Conductivity (σ):	4.59	4.65	-1.40	5
	Head 5600	e'	35.4400	Relative Permittivity (ϵ_r):	35.44	35.53	-0.26	5
		e"	15.9900	Conductivity (σ):	4.98	5.06	-1.61	5
	Head 5800	e'	35.1600	Relative Permittivity (ϵ_r):	35.16	35.30	-0.40	5
		e"	16.0400	Conductivity (σ):	5.17	5.27	-1.84	5
Head 5825	e'	35.1300	Relative Permittivity (ϵ_r):	35.13	35.30	-0.48	5	
	e"	16.0800	Conductivity (σ):	5.21	5.27	-1.17	5	
7/6/2015	Head 5180	e'	36.9300	Relative Permittivity (ϵ_r):	36.93	36.01	2.55	5
		e"	16.3600	Conductivity (σ):	4.71	4.63	1.76	5
	Head 5200	e'	36.9500	Relative Permittivity (ϵ_r):	36.95	35.99	2.67	5
		e"	16.4100	Conductivity (σ):	4.74	4.65	2.02	5
	Head 5600	e'	36.3300	Relative Permittivity (ϵ_r):	36.33	35.53	2.24	5
		e"	16.4700	Conductivity (σ):	5.13	5.06	1.35	5
	Head 5800	e'	36.0500	Relative Permittivity (ϵ_r):	36.05	35.30	2.12	5
		e"	16.5800	Conductivity (σ):	5.35	5.27	1.46	5
Head 5825	e'	36.0400	Relative Permittivity (ϵ_r):	36.04	35.30	2.10	5	
	e"	16.6200	Conductivity (σ):	5.38	5.27	2.14	5	
7/9/2015	Head 5180	e'	36.6400	Relative Permittivity (ϵ_r):	36.64	36.01	1.74	5
		e"	16.2700	Conductivity (σ):	4.69	4.63	1.20	5
	Head 5200	e'	36.5700	Relative Permittivity (ϵ_r):	36.57	35.99	1.61	5
		e"	16.2800	Conductivity (σ):	4.71	4.65	1.21	5
	Head 5600	e'	35.9400	Relative Permittivity (ϵ_r):	35.94	35.53	1.14	5
		e"	16.4700	Conductivity (σ):	5.13	5.06	1.35	5
	Head 5800	e'	35.6100	Relative Permittivity (ϵ_r):	35.61	35.30	0.88	5
		e"	16.5000	Conductivity (σ):	5.32	5.27	0.97	5
Head 5825	e'	35.6500	Relative Permittivity (ϵ_r):	35.65	35.30	0.99	5	
	e"	16.5600	Conductivity (σ):	5.36	5.27	1.78	5	

SAR Lab G

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/8/2015	Head 1750	e'	40.9400	Relative Permittivity (ϵ_r):	40.94	40.08	2.13	5
		e"	13.9400	Conductivity (σ):	1.36	1.37	-0.92	5
	Head 1710	e'	41.0300	Relative Permittivity (ϵ_r):	41.03	40.15	2.20	5
		e"	13.6700	Conductivity (σ):	1.30	1.35	-3.46	5
	Head 1755	e'	40.9500	Relative Permittivity (ϵ_r):	40.95	40.08	2.18	5
		e"	13.9100	Conductivity (σ):	1.36	1.37	-1.05	5
6/8/2015	Body 1750	e'	52.4100	Relative Permittivity (ϵ_r):	52.41	53.44	-1.93	5
		e"	14.8900	Conductivity (σ):	1.45	1.49	-2.51	5
	Body 1710	e'	52.4500	Relative Permittivity (ϵ_r):	52.45	53.54	-2.04	5
		e"	14.7100	Conductivity (σ):	1.40	1.46	-4.30	5
	Body 1755	e'	52.4400	Relative Permittivity (ϵ_r):	52.44	53.43	-1.85	5
		e"	14.8300	Conductivity (σ):	1.45	1.49	-2.82	5
6/11/2015	Head 1750	e'	40.7400	Relative Permittivity (ϵ_r):	40.74	40.08	1.64	5
		e"	13.7300	Conductivity (σ):	1.34	1.37	-2.41	5
	Head 1710	e'	40.8800	Relative Permittivity (ϵ_r):	40.88	40.15	1.83	5
		e"	13.6300	Conductivity (σ):	1.30	1.35	-3.75	5
	Head 1755	e'	40.7100	Relative Permittivity (ϵ_r):	40.71	40.08	1.58	5
		e"	13.7300	Conductivity (σ):	1.34	1.37	-2.33	5
6/11/2015	Body 1750	e'	52.7300	Relative Permittivity (ϵ_r):	52.73	53.44	-1.33	5
		e"	15.2500	Conductivity (σ):	1.48	1.49	-0.15	5
	Body 1710	e'	52.8200	Relative Permittivity (ϵ_r):	52.82	53.54	-1.35	5
		e"	15.1500	Conductivity (σ):	1.44	1.46	-1.44	5
	Body 1755	e'	52.7200	Relative Permittivity (ϵ_r):	52.72	53.43	-1.33	5
		e"	15.2600	Conductivity (σ):	1.49	1.49	-0.01	5
6/15/2015	Head 1750	e'	40.3900	Relative Permittivity (ϵ_r):	40.39	40.08	0.76	5
		e"	13.5900	Conductivity (σ):	1.32	1.37	-3.40	5
	Head 1710	e'	40.5000	Relative Permittivity (ϵ_r):	40.50	40.15	0.88	5
		e"	13.5300	Conductivity (σ):	1.29	1.35	-4.45	5
	Head 1755	e'	40.3600	Relative Permittivity (ϵ_r):	40.36	40.08	0.71	5
		e"	13.6000	Conductivity (σ):	1.33	1.37	-3.26	5
6/15/2015	Body 1750	e'	52.5000	Relative Permittivity (ϵ_r):	52.50	53.44	-1.76	5
		e"	15.1700	Conductivity (σ):	1.48	1.49	-0.67	5
	Body 1710	e'	52.5800	Relative Permittivity (ϵ_r):	52.58	53.54	-1.80	5
		e"	15.1100	Conductivity (σ):	1.44	1.46	-1.70	5
	Body 1755	e'	52.4800	Relative Permittivity (ϵ_r):	52.48	53.43	-1.77	5
		e"	15.1500	Conductivity (σ):	1.48	1.49	-0.73	5
6/18/2015	Head 1750	e'	40.9000	Relative Permittivity (ϵ_r):	40.90	40.08	2.03	5
		e"	13.7300	Conductivity (σ):	1.34	1.37	-2.41	5
	Head 1710	e'	40.9800	Relative Permittivity (ϵ_r):	40.98	40.15	2.08	5
		e"	13.6400	Conductivity (σ):	1.30	1.35	-3.68	5
	Head 1755	e'	40.8700	Relative Permittivity (ϵ_r):	40.87	40.08	1.98	5
		e"	13.7300	Conductivity (σ):	1.34	1.37	-2.33	5
6/18/2015	Body 1750	e'	52.3100	Relative Permittivity (ϵ_r):	52.31	53.44	-2.12	5
		e"	15.1000	Conductivity (σ):	1.47	1.49	-1.13	5
	Body 1710	e'	52.3400	Relative Permittivity (ϵ_r):	52.34	53.54	-2.25	5
		e"	15.0600	Conductivity (σ):	1.43	1.46	-2.03	5
	Body 1755	e'	52.2800	Relative Permittivity (ϵ_r):	52.28	53.43	-2.15	5
		e"	15.1100	Conductivity (σ):	1.47	1.49	-0.99	5

SAR Lab G (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/22/2015	Head 1750	e'	40.9100	Relative Permittivity (ϵ_r):	40.91	40.08	2.06	5
		e''	13.8900	Conductivity (σ):	1.35	1.37	-1.27	5
	Head 1710	e'	41.0400	Relative Permittivity (ϵ_r):	41.04	40.15	2.23	5
		e''	13.7600	Conductivity (σ):	1.31	1.35	-2.83	5
	Head 1755	e'	40.8900	Relative Permittivity (ϵ_r):	40.89	40.08	2.03	5
		e''	13.8800	Conductivity (σ):	1.35	1.37	-1.26	5
6/22/2015	Body 1750	e'	52.3800	Relative Permittivity (ϵ_r):	52.38	53.44	-1.99	5
		e''	15.2400	Conductivity (σ):	1.48	1.49	-0.22	5
	Body 1710	e'	52.5000	Relative Permittivity (ϵ_r):	52.50	53.54	-1.95	5
		e''	15.1900	Conductivity (σ):	1.44	1.46	-1.18	5
	Body 1755	e'	52.3400	Relative Permittivity (ϵ_r):	52.34	53.43	-2.04	5
		e''	15.2400	Conductivity (σ):	1.49	1.49	-0.14	5
6/24/2015	Body 5180	e'	47.1300	Relative Permittivity (ϵ_r):	47.13	49.05	-3.91	5
		e''	18.5900	Conductivity (σ):	5.35	5.27	1.57	5
	Body 5200	e'	47.1000	Relative Permittivity (ϵ_r):	47.10	49.02	-3.92	5
		e''	18.6200	Conductivity (σ):	5.38	5.29	1.68	5
	Body 5600	e'	46.4600	Relative Permittivity (ϵ_r):	46.46	48.48	-4.16	5
		e''	19.0300	Conductivity (σ):	5.93	5.76	2.86	5
	Body 5800	e'	46.1200	Relative Permittivity (ϵ_r):	46.12	48.20	-4.32	5
		e''	19.1900	Conductivity (σ):	6.19	6.00	3.15	5
	Body 5825	e'	46.0900	Relative Permittivity (ϵ_r):	46.09	48.20	-4.38	5
		e''	19.2300	Conductivity (σ):	6.23	6.00	3.81	5
6/29/2015	Body 5180	e'	48.4900	Relative Permittivity (ϵ_r):	48.49	49.05	-1.14	5
		e''	18.4100	Conductivity (σ):	5.30	5.27	0.59	5
	Body 5200	e'	48.4600	Relative Permittivity (ϵ_r):	48.46	49.02	-1.14	5
		e''	18.4400	Conductivity (σ):	5.33	5.29	0.70	5
	Body 5600	e'	47.8600	Relative Permittivity (ϵ_r):	47.86	48.48	-1.27	5
		e''	18.7700	Conductivity (σ):	5.84	5.76	1.45	5
	Body 5800	e'	47.6000	Relative Permittivity (ϵ_r):	47.60	48.20	-1.24	5
		e''	18.9400	Conductivity (σ):	6.11	6.00	1.80	5
	Body 5825	e'	47.5400	Relative Permittivity (ϵ_r):	47.54	48.20	-1.37	5
		e''	19.0300	Conductivity (σ):	6.16	6.00	2.73	5
7/2/2015	Body 5180	e'	48.2400	Relative Permittivity (ϵ_r):	48.24	49.05	-1.64	5
		e''	17.9200	Conductivity (σ):	5.16	5.27	-2.09	5
	Body 5200	e'	48.2500	Relative Permittivity (ϵ_r):	48.25	49.02	-1.57	5
		e''	17.8600	Conductivity (σ):	5.16	5.29	-2.47	5
	Body 5600	e'	47.6600	Relative Permittivity (ϵ_r):	47.66	48.48	-1.69	5
		e''	18.3000	Conductivity (σ):	5.70	5.76	-1.09	5
	Body 5800	e'	47.3500	Relative Permittivity (ϵ_r):	47.35	48.20	-1.76	5
		e''	18.4100	Conductivity (σ):	5.94	6.00	-1.05	5
	Body 5825	e'	47.3600	Relative Permittivity (ϵ_r):	47.36	48.20	-1.74	5
		e''	18.4200	Conductivity (σ):	5.97	6.00	-0.57	5
7/6/2015	Body 5180	e'	49.0900	Relative Permittivity (ϵ_r):	49.09	49.05	0.09	5
		e''	17.8500	Conductivity (σ):	5.14	5.27	-2.47	5
	Body 5200	e'	49.0800	Relative Permittivity (ϵ_r):	49.08	49.02	0.12	5
		e''	17.8900	Conductivity (σ):	5.17	5.29	-2.31	5
	Body 5600	e'	48.4700	Relative Permittivity (ϵ_r):	48.47	48.48	-0.02	5
		e''	18.1600	Conductivity (σ):	5.65	5.76	-1.85	5
	Body 5800	e'	48.2700	Relative Permittivity (ϵ_r):	48.27	48.20	0.15	5
		e''	18.3600	Conductivity (σ):	5.92	6.00	-1.32	5
	Body 5825	e'	48.2600	Relative Permittivity (ϵ_r):	48.26	48.20	0.12	5
		e''	18.3800	Conductivity (σ):	5.95	6.00	-0.78	5

SAR Lab G (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
7/9/2015	Body 5180	e'	49.0300	Relative Permittivity (ϵ_r):	49.03	49.05	-0.03	5
		e"	18.4800	Conductivity (σ):	5.32	5.27	0.97	5
	Body 5200	e'	49.0300	Relative Permittivity (ϵ_r):	49.03	49.02	0.02	5
		e"	18.5200	Conductivity (σ):	5.35	5.29	1.14	5
	Body 5600	e'	48.5600	Relative Permittivity (ϵ_r):	48.56	48.48	0.17	5
		e"	18.8400	Conductivity (σ):	5.87	5.76	1.83	5
	Body 5800	e'	48.2900	Relative Permittivity (ϵ_r):	48.29	48.20	0.19	5
		e"	19.0100	Conductivity (σ):	6.13	6.00	2.18	5
Body 5825	e'	48.2900	Relative Permittivity (ϵ_r):	48.29	48.20	0.19	5	
	e"	19.0500	Conductivity (σ):	6.17	6.00	2.83	5	
7/27/2015	Head 1750	e'	38.3800	Relative Permittivity (ϵ_r):	38.38	40.08	-4.25	5
		e"	14.0000	Conductivity (σ):	1.36	1.37	-0.49	5
	Head 1710	e'	38.5800	Relative Permittivity (ϵ_r):	38.58	40.15	-3.90	5
		e"	13.8900	Conductivity (σ):	1.32	1.35	-1.91	5
	Head 1755	e'	38.3600	Relative Permittivity (ϵ_r):	38.36	40.08	-4.28	5
		e"	14.0200	Conductivity (σ):	1.37	1.37	-0.27	5

SAR Lab H

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/3/2015	Head 1900	e'	40.1500	Relative Permittivity (ϵ_r):	40.15	40.00	0.37	5
		e"	13.7100	Conductivity (σ):	1.45	1.40	3.46	5
	Head 1850	e'	40.3200	Relative Permittivity (ϵ_r):	40.32	40.00	0.80	5
		e"	13.6600	Conductivity (σ):	1.41	1.40	0.37	5
	Head 1910	e'	40.1000	Relative Permittivity (ϵ_r):	40.10	40.00	0.25	5
		e"	13.7400	Conductivity (σ):	1.46	1.40	4.23	5
6/4/2015	Body 1900	e'	50.8700	Relative Permittivity (ϵ_r):	50.87	53.30	-4.56	5
		e"	14.5300	Conductivity (σ):	1.54	1.52	0.99	5
	Body 1850	e'	50.9900	Relative Permittivity (ϵ_r):	50.99	53.30	-4.33	5
		e"	14.4100	Conductivity (σ):	1.48	1.52	-2.48	5
	Body 1910	e'	50.8300	Relative Permittivity (ϵ_r):	50.83	53.30	-4.63	5
		e"	14.5500	Conductivity (σ):	1.55	1.52	1.66	5
6/8/2015	Head 1900	e'	38.5400	Relative Permittivity (ϵ_r):	38.54	40.00	-3.65	5
		e"	13.0900	Conductivity (σ):	1.38	1.40	-1.22	5
	Head 1850	e'	38.5800	Relative Permittivity (ϵ_r):	38.58	40.00	-3.55	5
		e"	13.0900	Conductivity (σ):	1.35	1.40	-3.82	5
	Head 1910	e'	38.5500	Relative Permittivity (ϵ_r):	38.55	40.00	-3.63	5
		e"	13.0500	Conductivity (σ):	1.39	1.40	-1.00	5
6/8/2015	Body 1900	e'	52.2200	Relative Permittivity (ϵ_r):	52.22	53.30	-2.03	5
		e"	14.9400	Conductivity (σ):	1.58	1.52	3.84	5
	Body 1850	e'	52.3200	Relative Permittivity (ϵ_r):	52.32	53.30	-1.84	5
		e"	14.8300	Conductivity (σ):	1.53	1.52	0.36	5
	Body 1910	e'	52.2300	Relative Permittivity (ϵ_r):	52.23	53.30	-2.01	5
		e"	14.9300	Conductivity (σ):	1.59	1.52	4.32	5
6/11/2015	Head 1900	e'	40.9000	Relative Permittivity (ϵ_r):	40.90	40.00	2.25	5
		e"	13.2900	Conductivity (σ):	1.40	1.40	0.29	5
	Head 1850	e'	41.0100	Relative Permittivity (ϵ_r):	41.01	40.00	2.53	5
		e"	13.2400	Conductivity (σ):	1.36	1.40	-2.72	5
	Head 1910	e'	40.8800	Relative Permittivity (ϵ_r):	40.88	40.00	2.20	5
		e"	13.2900	Conductivity (σ):	1.41	1.40	0.82	5
6/11/2015	Body 1900	e'	51.7000	Relative Permittivity (ϵ_r):	51.70	53.30	-3.00	5
		e"	14.6500	Conductivity (σ):	1.55	1.52	1.82	5
	Body 1850	e'	51.8700	Relative Permittivity (ϵ_r):	51.87	53.30	-2.68	5
		e"	14.5600	Conductivity (σ):	1.50	1.52	-1.47	5
	Body 1910	e'	51.6900	Relative Permittivity (ϵ_r):	51.69	53.30	-3.02	5
		e"	14.6800	Conductivity (σ):	1.56	1.52	2.57	5
6/15/2015	Head 1900	e'	40.9600	Relative Permittivity (ϵ_r):	40.96	40.00	2.40	5
		e"	13.5600	Conductivity (σ):	1.43	1.40	2.33	5
	Head 1850	e'	41.0500	Relative Permittivity (ϵ_r):	41.05	40.00	2.62	5
		e"	13.5400	Conductivity (σ):	1.39	1.40	-0.51	5
	Head 1910	e'	40.8900	Relative Permittivity (ϵ_r):	40.89	40.00	2.23	5
		e"	13.5900	Conductivity (σ):	1.44	1.40	3.09	5
6/15/2015	Body 1900	e'	52.5700	Relative Permittivity (ϵ_r):	52.57	53.30	-1.37	5
		e"	14.8200	Conductivity (σ):	1.57	1.52	3.00	5
	Body 1850	e'	52.7200	Relative Permittivity (ϵ_r):	52.72	53.30	-1.09	5
		e"	14.7400	Conductivity (σ):	1.52	1.52	-0.25	5
	Body 1910	e'	52.5300	Relative Permittivity (ϵ_r):	52.53	53.30	-1.44	5
		e"	14.8700	Conductivity (σ):	1.58	1.52	3.90	5

SAR Lab H (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
6/18/2015	Head 1900	e'	38.8700	Relative Permittivity (ϵ_r):	38.87	40.00	-2.83	5
		e"	13.6800	Conductivity (σ):	1.45	1.40	3.23	5
	Head 1850	e'	39.0200	Relative Permittivity (ϵ_r):	39.02	40.00	-2.45	5
		e"	13.6400	Conductivity (σ):	1.40	1.40	0.22	5
	Head 1910	e'	38.8200	Relative Permittivity (ϵ_r):	38.82	40.00	-2.95	5
		e"	13.6900	Conductivity (σ):	1.45	1.40	3.85	5
6/18/2015	Body 1900	e'	51.8700	Relative Permittivity (ϵ_r):	51.87	53.30	-2.68	5
		e"	14.5600	Conductivity (σ):	1.54	1.52	1.20	5
	Body 1850	e'	52.0200	Relative Permittivity (ϵ_r):	52.02	53.30	-2.40	5
		e"	14.4500	Conductivity (σ):	1.49	1.52	-2.21	5
	Body 1910	e'	51.8400	Relative Permittivity (ϵ_r):	51.84	53.30	-2.74	5
		e"	14.6000	Conductivity (σ):	1.55	1.52	2.01	5
6/22/2015	Head 1900	e'	40.7700	Relative Permittivity (ϵ_r):	40.77	40.00	1.93	5
		e"	13.6100	Conductivity (σ):	1.44	1.40	2.70	5
	Head 1850	e'	40.9000	Relative Permittivity (ϵ_r):	40.90	40.00	2.25	5
		e"	13.5400	Conductivity (σ):	1.39	1.40	-0.51	5
	Head 1910	e'	40.7600	Relative Permittivity (ϵ_r):	40.76	40.00	1.90	5
		e"	13.6200	Conductivity (σ):	1.45	1.40	3.32	5
6/22/2015	Body 1900	e'	51.5900	Relative Permittivity (ϵ_r):	51.59	53.30	-3.21	5
		e"	14.6200	Conductivity (σ):	1.54	1.52	1.61	5
	Body 1850	e'	51.7600	Relative Permittivity (ϵ_r):	51.76	53.30	-2.89	5
		e"	14.5100	Conductivity (σ):	1.49	1.52	-1.80	5
	Body 1910	e'	51.5800	Relative Permittivity (ϵ_r):	51.58	53.30	-3.23	5
		e"	14.6600	Conductivity (σ):	1.56	1.52	2.43	5
6/25/2015	Head 1900	e'	40.5900	Relative Permittivity (ϵ_r):	40.59	40.00	1.48	5
		e"	13.6100	Conductivity (σ):	1.44	1.40	2.70	5
	Head 1850	e'	40.7000	Relative Permittivity (ϵ_r):	40.70	40.00	1.75	5
		e"	13.5600	Conductivity (σ):	1.39	1.40	-0.37	5
	Head 1910	e'	40.5300	Relative Permittivity (ϵ_r):	40.53	40.00	1.33	5
		e"	13.6100	Conductivity (σ):	1.45	1.40	3.24	5
6/25/2015	Body 1900	e'	54.3200	Relative Permittivity (ϵ_r):	54.32	53.30	1.91	5
		e"	14.4500	Conductivity (σ):	1.53	1.52	0.43	5
	Body 1850	e'	54.4300	Relative Permittivity (ϵ_r):	54.43	53.30	2.12	5
		e"	14.3500	Conductivity (σ):	1.48	1.52	-2.89	5
	Body 1910	e'	54.2600	Relative Permittivity (ϵ_r):	54.26	53.30	1.80	5
		e"	14.4900	Conductivity (σ):	1.54	1.52	1.24	5
6/29/2015	Body 1900	e'	52.6900	Relative Permittivity (ϵ_r):	52.69	53.30	-1.14	5
		e"	14.5700	Conductivity (σ):	1.54	1.52	1.27	5
	Body 1850	e'	52.7000	Relative Permittivity (ϵ_r):	52.70	53.30	-1.13	5
		e"	14.4900	Conductivity (σ):	1.49	1.52	-1.94	5
	Body 1910	e'	52.5800	Relative Permittivity (ϵ_r):	52.58	53.30	-1.35	5
		e"	14.5800	Conductivity (σ):	1.55	1.52	1.87	5
6/29/2015	Head 1900	e'	39.0200	Relative Permittivity (ϵ_r):	39.02	40.00	-2.45	5
		e"	13.4700	Conductivity (σ):	1.42	1.40	1.65	5
	Head 1850	e'	39.1800	Relative Permittivity (ϵ_r):	39.18	40.00	-2.05	5
		e"	13.4500	Conductivity (σ):	1.38	1.40	-1.18	5
	Head 1910	e'	38.9700	Relative Permittivity (ϵ_r):	38.97	40.00	-2.58	5
		e"	13.4800	Conductivity (σ):	1.43	1.40	2.26	5

SAR Lab H (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
7/2/2015	Head 1900	e'	39.4600	Relative Permittivity (ϵ_r):	39.46	40.00	-1.35	5
		e"	13.6800	Conductivity (σ):	1.45	1.40	3.23	5
	Head 1850	e'	39.6100	Relative Permittivity (ϵ_r):	39.61	40.00	-0.98	5
		e"	13.6500	Conductivity (σ):	1.40	1.40	0.29	5
	Head 1910	e'	39.4300	Relative Permittivity (ϵ_r):	39.43	40.00	-1.43	5
		e"	13.6700	Conductivity (σ):	1.45	1.40	3.70	5
7/2/2015	Body 1900	e'	52.8900	Relative Permittivity (ϵ_r):	52.89	53.30	-0.77	5
		e"	14.9400	Conductivity (σ):	1.58	1.52	3.84	5
	Body 1850	e'	53.0700	Relative Permittivity (ϵ_r):	53.07	53.30	-0.43	5
		e"	14.8500	Conductivity (σ):	1.53	1.52	0.50	5
	Body 1910	e'	52.8700	Relative Permittivity (ϵ_r):	52.87	53.30	-0.81	5
		e"	14.9600	Conductivity (σ):	1.59	1.52	4.53	5
7/6/2015	Head 1900	e'	39.4400	Relative Permittivity (ϵ_r):	39.44	40.00	-1.40	5
		e"	13.4300	Conductivity (σ):	1.42	1.40	1.34	5
	Head 1850	e'	39.5600	Relative Permittivity (ϵ_r):	39.56	40.00	-1.10	5
		e"	13.3300	Conductivity (σ):	1.37	1.40	-2.06	5
	Head 1910	e'	39.4200	Relative Permittivity (ϵ_r):	39.42	40.00	-1.45	5
		e"	13.4600	Conductivity (σ):	1.43	1.40	2.11	5
7/6/2015	Body 1900	e'	52.4100	Relative Permittivity (ϵ_r):	52.41	53.30	-1.67	5
		e"	14.6700	Conductivity (σ):	1.55	1.52	1.96	5
	Body 1850	e'	52.6100	Relative Permittivity (ϵ_r):	52.61	53.30	-1.29	5
		e"	14.5100	Conductivity (σ):	1.49	1.52	-1.80	5
	Body 1910	e'	52.3600	Relative Permittivity (ϵ_r):	52.36	53.30	-1.76	5
		e"	14.7100	Conductivity (σ):	1.56	1.52	2.78	5

8.2. System Check

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

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 $\pm$ 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be $\geq$ 15.0 cm for SAR measurements $\leq$ 3 GHz and $\geq$ 10.0 cm for measurements $>$ 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
For 5 GHz band - Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles

System Dipole	Serial No.	Cal. Date	Freq. (MHz)	Target SAR Values (W/kg)		
				1g/10g	Head	Body
D750V3	1019	3/11/2015	750	1g	8.44	8.53
				10g	5.50	5.68
D750V3	1024	5/12/2015	750	1g	8.10	8.41
				10g	5.33	5.60
D835V2	4d002	11/13/2014	835	1g	9.23	9.33
				10g	5.99	6.12
D1750V2	1050	4/15/2015	1750	1g	36.4	37.0
				10g	19.3	19.9
D1750V2	1077	9/11/2014	1750	1g	36.5	36.9
				10g	19.4	19.8
D1900V2	5d043	11/7/2014	1900	1g	40.6	40.0
				10g	21.1	21.3
D2300V2	1002	3/13/2015	2300	1g	47.7	49.1
				10g	23.0	23.7
D2450V2	899	3/13/2015	2450	1g	51.6	48.8
				10g	23.9	22.7
D2600V2	1006	9/10/2014	2600	1g	58.6	56.3
				10g	26.1	25.1
D5GHzV2	1003	2/20/2015	5200	1g	76.4	72.7
				10g	21.9	20.4
			5600	1g	79.6	77.0
				10g	22.8	21.3
			5800	1g	76.1	75.0
				10g	21.7	20.6
D5GHzV2	1138	9/18/2014	5200	1g	81.4	75.4
				10g	23.3	21.0
			5600	1g	85.1	81.9
				10g	24.2	22.6
			5800	1g	80.6	75.2
				10g	23.0	20.8
D5GHzV2	1168	12/4/2014	5200	1g	79.3	76.0
				10g	22.5	21.1
			5600	1g	81.7	82.0
				10g	23.2	22.7
			5800	1g	78.0	76.2
				10g	22.1	21.0

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

SAR Lab A

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6/8/2015	D2300V2	1002	Head	1g	4.61	46.1	47.7	-3.35	
				10g	2.20	22.0	23.0	-4.35	
6/8/2015	D2300V2	1002	Body	1g	4.61	46.1	49.1	-6.11	1,2
				10g	2.21	22.1	23.7	-6.75	
6/11/2015	D2300V2	1002	Head	1g	4.62	46.2	47.7	-3.14	
				10g	2.20	22.0	23.0	-4.35	
6/11/2015	D2300V2	1002	Body	1g	4.70	47.0	49.1	-4.28	
				10g	2.24	22.4	23.7	-5.49	
6/12/2015	D750V3	1019	Head	1g	0.839	8.39	8.44	-0.59	
				10g	0.550	5.50	5.50	0.00	
6/12/2015	D750V3	1019	Body	1g	0.863	8.63	8.53	1.17	
				10g	0.575	5.75	5.68	1.23	
6/15/2015	D750V3	1019	Head	1g	0.837	8.37	8.44	-0.83	
				10g	0.548	5.48	5.50	-0.36	
6/15/2015	D750V3	1019	Body	1g	0.870	8.70	8.53	1.99	
				10g	0.580	5.80	5.68	2.11	
6/16/2015	D2300V2	1002	Head	1g	4.50	45.0	47.7	-5.66	
				10g	2.17	21.7	23.0	-5.65	
6/16/2015	D2300V2	1002	Body	1g	4.75	47.5	49.1	-3.26	
				10g	2.30	23.0	23.7	-2.95	
6/18/2015	D750V3	1019	Head	1g	0.792	7.92	8.44	-6.16	3,4
				10g	0.518	5.18	5.50	-5.82	
6/18/2015	D750V3	1019	Body	1g	0.836	8.36	8.53	-1.99	
				10g	0.558	5.58	5.68	-1.76	
6/20/2015	D2300V2	1002	Head	1g	4.99	49.9	47.7	4.61	
				10g	2.37	23.7	23.0	3.04	
6/22/2015	D750V3	1019	Head	1g	0.871	8.71	8.44	3.20	
				10g	0.570	5.70	5.50	3.64	
6/22/2015	D750V3	1019	Body	1g	0.839	8.39	8.53	-1.64	
				10g	0.559	5.59	5.68	-1.58	
6/24/2015	D835V2	4d002	Head	1g	0.890	8.90	9.23	-3.58	
				10g	0.585	5.85	5.99	-2.34	
6/25/2015	D835V2	4d002	Body	1g	0.972	9.72	9.33	4.18	5,6
				10g	0.643	6.43	6.12	5.07	
6/29/2015	D5GHzV2 (5.2GHz)	1003	Body	1g	7.26	72.6	72.7	-0.14	
				10g	2.04	20.4	20.4	0.00	
6/29/2015	D5GHzV2 (5.6GHz)	1003	Body	1g	7.76	77.6	77.0	0.78	
				10g	2.14	21.4	21.3	0.47	
6/29/2015	D5GHzV2 (5.8GHz)	1003	Body	1g	7.71	77.1	75.0	2.80	7,8
				10g	2.15	21.5	20.6	4.37	
7/2/2015	D5GHzV2 (5.2GHz)	1168	Body	1g	7.81	78.1	76.0	2.76	
				10g	2.18	21.8	21.1	3.32	
7/2/2015	D5GHzV2 (5.8GHz)	1168	Body	1g	7.39	73.9	76.2	-3.02	9,10
				10g	2.04	20.4	21.0	-2.86	
7/6/2015	D5GHzV2 (5.2GHz)	1168	Body	1g	7.69	76.9	76.0	1.18	
				10g	2.14	21.4	21.1	1.42	
7/6/2015	D5GHzV2 (5.8GHz)	1168	Body	1g	7.50	75.0	76.2	-1.57	
				10g	2.08	20.8	21.0	-0.95	

SAR Lab A (continued)

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
7/9/2015	D5GHzV2 (5.2GHz)	1168	Body	1g	7.80	78.0	76.0	2.63
				10g	2.15	21.5	21.1	1.90
7/9/2015	D5GHzV2 (5.8GHz)	1168	Body	1g	7.69	76.9	76.2	0.92
				10g	2.13	21.3	21.0	1.43
7/9/2015	D750V3	1019	Head	1g	0.826	8.26	8.44	-2.13
				10g	0.544	5.44	5.50	-1.09
7/9/2015	D750V3	1019	Body	1g	0.855	8.55	8.53	0.23
				10g	0.569	5.69	5.68	0.18
7/27/2015	D750V3	1024	Head	1g	0.837	8.37	8.10	3.33
				10g	0.550	5.50	5.33	3.19
7/27/2015	D750V3	1024	Body	1g	0.821	8.21	8.41	-2.38
				10g	0.545	5.45	5.60	-2.68
7/27/2015	D1750V2	1077	Head	1g	3.71	37.1	36.5	1.64
				10g	1.97	19.7	19.4	1.55

SAR Lab B

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/8/2015	D2450V2	899	Head	1g	4.97	49.7	51.6	-3.68
				10g	2.28	22.8	23.9	-4.60
6/8/2015	D2450V2	899	Body	1g	5.10	51.0	48.8	4.51
				10g	2.34	23.4	22.7	3.08
6/11/2015	D2450V2	899	Head	1g	5.20	52.0	51.6	0.78
				10g	2.39	23.9	23.9	0.00
6/11/2015	D2450V2	899	Body	1g	5.13	51.3	48.8	5.12
				10g	2.36	23.6	22.7	3.96
6/15/2015	D2450V2	899	Head	1g	5.40	54.0	51.6	4.65
				10g	2.49	24.9	23.9	4.18
6/15/2015	D2450V2	899	Body	1g	5.12	51.2	48.8	4.92
				10g	2.35	23.5	22.7	3.52
6/18/2015	D2450V2	899	Body	1g	4.80	48.0	48.8	-1.64
				10g	2.21	22.1	22.7	-2.64
6/18/2015	D2450V2	899	Head	1g	5.23	52.3	51.6	1.36
				10g	2.40	24.0	23.9	0.42
6/18/2015	D835V2	4d002	Body	1g	0.983	9.83	9.3	5.36
				10g	0.648	6.48	6.1	5.88
6/22/2015	D835V2	4d002	Body	1g	0.938	9.38	9.3	0.54
				10g	0.618	6.18	6.1	0.98
6/22/2015	D2450V2	899	Head	1g	5.27	52.7	51.6	2.13
				10g	2.43	24.3	23.9	1.67
6/23/2015	D2450V2	899	Body	1g	5.10	51.0	48.8	4.51
				10g	2.37	23.7	22.7	4.41
6/25/2015	D2450V2	899	Head	1g	5.28	52.8	51.6	2.33
				10g	2.43	24.3	23.9	1.67
6/25/2015	D2450V2	899	Body	1g	4.93	49.3	48.8	1.02
				10g	2.28	22.8	22.7	0.44
6/29/2015	D2450V2	899	Head	1g	5.21	52.1	51.6	0.97
				10g	2.39	23.9	23.9	0.00
6/29/2015	D2450V2	899	Body	1g	4.93	49.3	48.8	1.02
				10g	2.26	22.6	22.7	-0.44
6/30/2015	D835V2	4d002	Body	1g	0.927	9.27	9.33	-0.64
				10g	0.609	6.09	6.12	-0.49
7/2/2015	D2450V2	899	Head	1g	5.29	52.9	51.6	2.52
				10g	2.43	24.3	23.9	1.67
7/6/2015	D2450V2	899	Head	1g	4.96	49.6	51.6	-3.88
				10g	2.29	22.9	23.9	-4.18
7/6/2015	D2450V2	899	Body	1g	4.97	49.7	48.8	1.84
				10g	2.31	23.1	22.7	1.76
7/6/2015	D835V2	4d002	Body	1g	0.950	9.50	9.33	1.82
				10g	0.625	6.25	6.12	2.12
7/9/2015	D2450V2	899	Head	1g	5.05	50.5	51.6	-2.13
				10g	2.32	23.2	23.9	-2.93
7/9/2015	D2450V2	899	Body	1g	5.15	51.5	48.8	5.53
				10g	2.37	23.7	22.7	4.41
7/27/2015	D1900V2	5d043	Head	1g	4.08	40.8	40.6	0.49
				10g	2.10	21.0	21.1	-0.47

SAR Lab C

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/19/2015	D835V2	4d002	Head	1g	0.889	8.89	9.23	-3.68
				10g	0.586	5.86	5.99	-2.17
6/22/2015	D835V2	4d002	Head	1g	0.923	9.23	9.23	0.00
				10g	0.608	6.08	5.99	1.50
6/25/2015	D835V2	4d002	Head	1g	0.914	9.14	9.23	-0.98
				10g	0.600	6.00	5.99	0.17
6/29/2015	D835V2	4d002	Head	1g	0.932	9.32	9.23	0.98
				10g	0.613	6.13	5.99	2.34
7/27/2015	835MHz	4d002	Head	1g	0.971	9.71	9.23	5.20
				10g	0.639	6.39	5.99	6.68
7/27/2015	835MHz	4d002	Body	1g	0.963	9.63	9.33	3.22
				10g	0.638	6.38	6.12	4.25

SAR Lab E

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/8/2015	D2600V2	1006	Head	1g	5.86	58.6	58.6	0.00
				10g	2.59	25.9	26.1	-0.77
6/8/2015	D2600V2	1006	Body	1g	5.74	57.4	56.3	1.95
				10g	2.52	25.2	25.1	0.40
6/11/2015	D2600V2	1006	Head	1g	5.87	58.7	58.6	0.17
				10g	2.59	25.9	26.1	-0.77
6/11/2015	D2600V2	1006	Body	1g	5.88	58.8	56.3	4.44
				10g	2.59	25.9	25.1	3.19
6/15/2015	D2600V2	1006	Head	1g	5.76	57.6	58.6	-1.71
				10g	2.55	25.5	26.1	-2.30
6/15/2015	D2600V2	1006	Body	1g	5.87	58.7	56.3	4.26
				10g	2.59	25.9	25.1	3.19
6/18/2015	D2600V2	1006	Head	1g	5.58	55.8	58.6	-4.78
				10g	2.46	24.6	26.1	-5.75
6/18/2015	D2600V2	1006	Body	1g	5.65	56.5	56.3	0.36
				10g	2.49	24.9	25.1	-0.80
6/22/2014	D2600V2	1006	Head	1g	5.83	58.3	58.6	-0.51
				10g	2.58	25.8	26.1	-1.15
6/22/2014	D2600V2	1006	Body	1g	5.60	56.0	56.3	-0.53
				10g	2.46	24.6	25.1	-1.99
6/25/2015	D2600V2	1006	Head	1g	5.87	58.7	58.6	0.17
				10g	2.60	26.0	26.1	-0.38
6/25/2015	D2600V2	1006	Body	1g	5.69	56.9	56.3	1.07
				10g	2.50	25.0	25.1	-0.40
6/29/2015	D2600V2	1006	Head	1g	5.55	55.5	58.6	-5.29
				10g	2.48	24.8	26.1	-4.98
6/29/2015	D2600V2	1006	Body	1g	5.86	58.6	56.3	4.09
				10g	2.60	26.0	25.1	3.59
6/30/2015	D1900V2	5d043	Body	1g	4.06	40.6	40.0	1.50
				10g	2.16	21.6	21.3	1.41
7/2/2015	D2600V2	1006	Head	1g	5.82	58.2	58.6	-0.68
				10g	2.57	25.7	26.1	-1.53
7/2/2015	D2600V2	1006	Body	1g	5.56	55.6	56.3	-1.24
				10g	2.45	24.5	25.1	-2.39
7/3/2015	D835V2	4d002	Body	1g	1.00	10.0	9.33	7.18
				10g	0.662	6.62	6.12	8.17
7/6/2015	D835V2	4d002	Body	1g	0.899	8.99	9.33	-3.64
				10g	0.594	5.94	6.12	-2.94
7/9/2015	D835V2	4d002	Body	1g	0.892	8.92	9.33	-4.39
				10g	0.589	5.89	6.12	-3.76
7/27/2015	D2600V2	1006	Head	1g	6.17	61.7	58.6	5.29
				10g	2.75	27.5	26.1	5.36

SAR Lab F

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/11/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.43	84.3	81.4	3.56
				10g	2.42	24.2	23.3	3.86
6/11/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.40	84.0	85.1	-1.29
				10g	2.37	23.7	24.2	-2.07
6/11/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	8.46	84.6	80.6	4.96
				10g	2.40	24.0	23.0	4.35
6/11/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	8.42	84.2	81.4	3.44
				10g	2.39	23.9	23.3	2.58
6/11/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	9.03	90.3	85.1	6.11
				10g	2.55	25.5	24.2	5.37
6/11/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	7.61	76.1	80.6	-5.58
				10g	2.14	21.4	23.0	-6.96
6/15/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	7.81	78.1	81.4	-4.05
				10g	2.22	22.2	23.3	-4.72
6/15/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.54	85.4	85.1	0.35
				10g	2.41	24.1	24.2	-0.41
6/15/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	7.94	79.4	80.6	-1.49
				10g	2.25	22.5	23.0	-2.17
6/15/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	8.13	81.3	81.4	-0.12
				10g	2.31	23.1	23.3	-0.86
6/15/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	9.10	91.0	85.1	6.93
				10g	2.54	25.4	24.2	4.96
6/15/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	7.67	76.7	80.6	-4.84
				10g	2.16	21.6	23.0	-6.09
6/18/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.30	83.0	81.4	1.97
				10g	2.37	23.7	23.3	1.72
6/18/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.32	83.2	85.1	-2.23
				10g	2.34	23.4	24.2	-3.31
6/18/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	7.89	78.9	80.6	-2.11
				10g	2.23	22.3	23.0	-3.04
6/18/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	7.82	78.2	81.4	-3.93
				10g	2.23	22.3	23.3	-4.29
6/18/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.63	86.3	85.1	1.41
				10g	2.40	24.0	24.2	-0.83
6/18/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	8.21	82.1	80.6	1.86
				10g	2.30	23.0	23.0	0.00
6/22/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	7.75	77.50	81.4	-4.79
				10g	2.23	22.30	23.3	-4.29
6/22/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.29	82.90	85.1	-2.59
				10g	2.34	23.40	24.2	-3.31
6/22/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	7.88	78.80	80.6	-2.23
				10g	2.25	22.50	23.0	-2.17
6/22/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	8.30	83.00	81.4	1.97
				10g	2.37	23.70	23.3	1.72
6/22/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.66	86.60	85.1	1.76
				10g	2.43	24.30	24.2	0.41
6/22/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	8.01	80.10	80.6	-0.62
				10g	2.25	22.50	23.0	-2.17

SAR Lab F (continued)

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/25/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.16	81.6	81.4	0.25
				10g	2.34	23.4	23.3	0.43
6/25/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.68	86.8	85.1	2.00
				10g	2.44	24.4	24.2	0.83
6/25/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	8.35	83.5	80.6	3.60
				10g	2.37	23.7	23.0	3.04
6/29/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.19	81.9	81.4	0.61
				10g	2.33	23.3	23.3	0.00
6/29/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.52	85.2	85.1	0.12
				10g	2.41	24.1	24.2	-0.41
6/29/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	8.36	83.6	80.6	3.72
				10g	2.37	23.7	23.0	3.04
6/29/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	8.10	81.0	81.4	-0.49
				10g	2.31	23.1	23.3	-0.86
6/29/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.39	83.9	85.1	-1.41
				10g	2.35	23.5	24.2	-2.89
6/29/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	8.05	80.5	80.6	-0.12
				10g	2.27	22.7	23.0	-1.30
7/2/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.24	82.4	81.4	1.23
				10g	2.35	23.5	23.3	0.86
7/2/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.40	84.0	85.1	-1.29
				10g	2.38	23.8	24.2	-1.65
7/2/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	8.42	84.2	80.6	4.47
				10g	2.38	23.8	23.0	3.48
7/6/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.66	86.6	81.4	6.39
				10g	2.47	24.7	23.3	6.01
7/6/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.41	84.1	85.1	-1.18
				10g	2.38	23.8	24.2	-1.65
7/6/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	8.40	84.0	80.6	4.22
				10g	2.38	23.8	23.0	3.48
7/9/2015	D5GHzV2 (5.2GHz)	1138	Head	1g	8.06	80.6	81.4	-0.98
				10g	2.30	23.0	23.3	-1.29
7/9/2015	D5GHzV2 (5.6GHz)	1138	Head	1g	8.09	80.9	85.1	-4.94
				10g	2.29	22.9	24.2	-5.37
7/9/2015	D5GHzV2 (5.8GHz)	1138	Head	1g	7.90	79.0	80.6	-1.99
				10g	2.23	22.3	23.0	-3.04

SAR Lab G

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6/8/2015	D1750V2	1050	Head	1g	3.39	33.9	36.4	-6.87	31,32
				10g	1.81	18.1	19.3	-6.22	
6/8/2015	D1750V2	1050	Body	1g	3.48	34.8	37.0	-5.95	
				10g	1.85	18.5	19.9	-7.04	
6/11/2015	D1750V2	1050	Head	1g	3.54	35.4	36.4	-2.75	
				10g	1.88	18.8	19.3	-2.59	
6/11/2015	D1750V2	1050	Body	1g	3.74	37.4	37.0	1.08	
				10g	1.99	19.9	19.9	0.00	
6/15/2015	D1750V2	1050	Head	1g	3.49	34.9	36.4	-4.12	
				10g	1.86	18.6	19.3	-3.63	
6/15/2015	D1750V2	1050	Body	1g	3.66	36.6	37.0	-1.08	
				10g	1.95	19.5	19.9	-2.01	
6/18/2015	D1750V2	1050	Head	1g	3.65	36.5	36.4	0.27	
				10g	1.94	19.4	19.3	0.52	
6/18/2015	D1750V2	1050	Body	1g	3.89	38.9	37.0	5.14	
				10g	2.07	20.7	19.9	4.02	
6/22/2015	D1750V2	1050	Head	1g	3.50	35.0	36.4	-3.85	
				10g	1.86	18.6	19.3	-3.63	
6/22/2015	D1750V2	1050	Body	1g	3.63	36.3	37.0	-1.89	
				10g	1.93	19.3	19.9	-3.02	
6/24/2015	D5GHzV2 (5.2GHz)	1138	Body	1g	7.71	77.1	75.4	2.25	
				10g	2.15	21.5	21.0	2.38	
6/24/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.70	87.0	81.9	6.23	33,34
				10g	2.39	23.9	22.6	5.75	
6/24/2015	D5GHzV2 (5.8GHz)	1138	Body	1g	7.55	75.5	75.2	0.40	
				10g	2.09	20.9	20.8	0.48	
6/29/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.18	81.8	81.9	-0.12	
				10g	2.26	22.6	22.6	0.00	
6/29/2015	D1750V2	1050	Head	1g	3.66	36.6	36.4	0.55	
				10g	1.96	19.6	19.3	1.55	
6/29/2015	D1750V2	1050	Body	1g	3.70	37.0	37.0	0.00	
				10g	1.99	19.9	19.9	0.00	
7/2/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.28	82.8	81.9	1.10	
				10g	2.29	22.9	22.6	1.33	
7/6/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	7.96	79.6	81.9	-2.81	
				10g	2.20	22.0	22.6	-2.65	
7/9/2015	D5GHzV2 (5.6GHz)	1138	Body	1g	8.68	86.8	81.9	5.98	
				10g	2.38	23.8	22.6	5.31	
7/28/2015	D1750V2	1050	Head	1g	3.47	34.7	36.4	-4.67	
				10g	1.86	18.6	19.3	-3.63	

SAR Lab H

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
6/4/2015	1900MHz	5d043	Head	1g	3.97	39.7	40.6	-2.22
				10g	2.03	20.3	21.1	-3.79
6/4/2015	1900MHz	5d043	Body	1g	4.01	40.1	40.0	0.25
				10g	2.08	20.8	21.3	-2.35
6/8/2015	1900MHz	5d043	Head	1g	3.97	39.7	40.6	-2.22
				10g	2.04	20.4	21.1	-3.32
6/8/2015	1900MHz	5d043	Body	1g	4.22	42.2	40.0	5.50
				10g	2.20	22.0	21.3	3.29
6/11/2015	1900MHz	5d043	Head	1g	3.85	38.5	40.6	-5.17
				10g	1.98	19.8	21.1	-6.16
6/11/2015	1900MHz	5d043	Body	1g	4.09	40.9	40.0	2.25
				10g	2.13	21.3	21.3	0.00
6/15/2015	1900MHz	5d043	Head	1g	3.93	39.3	40.6	-3.20
				10g	2.02	20.2	21.1	-4.27
6/15/2015	1900MHz	5d043	Body	1g	4.10	41.0	40.0	2.50
				10g	2.14	21.4	21.3	0.47
6/18/2015	1900MHz	5d043	Head	1g	4.02	40.2	40.6	-0.99
				10g	2.07	20.7	21.1	-1.90
6/18/2015	1900MHz	5d043	Body	1g	4.13	41.3	40.0	3.25
				10g	2.14	21.4	21.3	0.47
6/22/2015	1900MHz	5d043	Head	1g	4.01	40.1	40.6	-1.23
				10g	2.06	20.6	21.1	-2.37
6/22/2015	1900MHz	5d043	Body	1g	4.11	41.1	40.0	2.75
				10g	2.14	21.4	21.3	0.47
6/25/2015	1900MHz	5d043	Head	1g	4.00	40.0	40.6	-1.48
				10g	2.05	20.5	21.1	-2.84
6/25/2015	1900MHz	5d043	Body	1g	3.98	39.8	40.0	-0.50
				10g	2.06	20.6	21.3	-3.29
6/29/2015	1900MHz	5d043	Head	1g	3.88	38.8	40.6	-4.43
				10g	2.01	20.1	21.1	-4.74
6/29/2015	1900MHz	5d043	Body	1g	3.91	39.1	40.0	-2.25
				10g	2.07	20.7	21.3	-2.82
7/2/2015	1900MHz	5d043	Head	1g	3.97	39.7	40.6	-2.22
				10g	2.04	20.4	21.1	-3.32
7/2/2015	1900MHz	5d043	Body	1g	4.02	40.2	40.0	0.50
				10g	2.09	20.9	21.3	-1.88
7/6/2015	1900MHz	5d043	Head	1g	3.81	38.1	40.6	-6.16
				10g	1.97	19.7	21.1	-6.64
7/6/2015	1900MHz	5d043	Body	1g	3.99	39.90	40.00	-0.25
				10g	2.09	20.90	21.30	-1.88

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9. Conducted Output Power Measurements

The proprietary logic is used to determine when head/body power table is used.

9.1. GSM

Per KDB 941225 D01 3G SAR Procedures:

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.

GSM850 Measured Results

GSM (GMSK) - Voice Mode

Band	Ch No.	Freq. (MHz)	Avg Power (dBm)			
			UAT		LAT	
			HEAD	BODY	HEAD	BODY
850	128	824.2	31.3	31.3	33.4	33.4
	190	836.6	31.5	31.5	33.5	33.5
	251	848.8	31.4	31.4	33.0	33.0

GPRS (GMSK) - Coding Scheme: CS1

Band	Ch No.	Freq. (MHz)	UAT				LAT			
			HEAD		BODY		HEAD		BODY	
			1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots
Burst Power (dBm)										
850	128	824.2	31.3	30.3	31.3	30.3	33.4	32.5	33.4	32.5
	190	836.6	31.4	30.5	31.4	30.5	33.4	32.5	33.4	32.5
	251	848.8	31.4	30.4	31.4	30.4	33.0	32.5	33.0	32.5
Frame Power (dBm)										
850	128	824.2	22.3	24.3	22.3	24.3	24.3	26.5	24.3	26.5
	190	836.6	22.3	24.5	22.3	24.5	24.3	26.5	24.3	26.5
	251	848.8	22.4	24.4	22.4	24.4	24.0	26.5	24.0	26.5

EGPRS (8PSK) - Coding Scheme: MCS5

Band	Ch No.	Freq. (MHz)	UAT				LAT			
			HEAD		BODY		HEAD		BODY	
			1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots
Burst Power (dBm)										
850.0	128.0	824.2	26.6	26.7	26.7	26.7	28.7	28.7	28.7	28.7
	190.0	836.6	26.7	26.8	26.8	26.8	28.8	28.8	28.8	28.8
	251.0	848.8	26.7	26.7	26.8	26.7	28.8	28.8	28.7	28.8
Frame Power (dBm)										
850.0	128.0	824.2	17.6	20.7	17.7	20.7	19.7	22.7	19.7	22.7
	190.0	836.6	17.7	20.8	17.8	20.8	19.8	22.8	19.8	22.8
	251.0	848.8	17.7	20.7	17.8	20.7	19.8	22.8	19.7	22.8

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- Head & Body-worn: GMSK Voice Mode
- Hotspot mode: GMSK (GPRS) mode with 2 time slots based on the output power measurements above.
- SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode

GSM1900 Measured Results**GSM (GMSK) - Voice Mode**

Band	Ch No.	Freq. (MHz)	Avg Power (dBm)			
			UAT		LAT	
			HEAD	BODY	HEAD	BODY
1900	512	1850.2	25.5	27.5	30.5	27.7
	661	1880.0	25.6	27.5	30.5	27.7
	810	1909.8	25.4	27.5	30.5	27.7

GPRS (GMSK) - Coding Scheme: CS1

Band	Ch No.	Freq. (MHz)	UAT				LAT			
			HEAD		BODY		HEAD		BODY	
			1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots
			Burst Power (dBm)				Burst Power (dBm)			
1900.0	512.0	1850.2	25.5	22.6	27.5	25.1	30.5	29.5	27.1	24.2
	661.0	1880.0	25.3	22.6	27.5	25.1	30.4	29.5	27.1	24.2
	810.0	1909.8	25.4	22.6	27.5	25.1	30.5	29.5	27.1	24.2
			Frame Power (dBm)				Frame Power (dBm)			
1900.0	512.0	1850.2	16.5	16.6	18.5	19.1	21.5	23.5	18.1	18.2
	661.0	1880.0	16.2	16.6	18.5	19.1	21.4	23.5	18.1	18.2
	810.0	1909.8	16.4	16.6	18.5	19.1	21.5	23.5	18.1	18.2

EGPRS (8PSK) - Coding Scheme: MCS5

Band	Ch No.	Freq. (MHz)	UAT				LAT			
			HEAD		BODY		HEAD		BODY	
			1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots
			Burst Power (dBm)				Burst Power (dBm)			
1900.0	512.0	1850.2	25.0	22.5	25.0	25.0	27.9	28.0	27.0	24.1
	661.0	1880.0	25.0	22.5	25.0	25.0	28.0	28.0	27.0	24.1
	810.0	1909.8	24.9	22.5	24.9	24.9	28.0	28.0	27.0	24.1
			Frame Power (dBm)				Frame Power (dBm)			
1900.0	512.0	1850.2	16.0	16.5	16.0	19.0	18.9	22.0	18.0	18.1
	661.0	1880.0	16.0	16.5	16.0	19.0	19.0	22.0	18.0	18.1
	810.0	1909.8	15.9	16.5	15.9	18.9	19.0	22.0	18.0	18.1

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- Head & Body-worn: GMSK Voice Mode
- Hotspot mode: GMSK (GPRS) mode with 2 time slots based on the output power measurements above.
- SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode

9.2. W-CDMA

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
W-CDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

HSPA (HSDPA & HSUPA) Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSPA				
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2 kbps RMC				
	HSDPA FRC	H-Set 1				
	HSUPA Test	HSPA				
	Power Control Algorithm	Algorithm 2				Algorithm 1
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/1
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	β_{ed}	1309/225	94/75	47/15	56/75	47/15
HSDPA Specific Settings	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0
	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
HSUPA Specific Settings	CQI Repetition Factor (Table 5.2B.4)	2				
	$A_{hs} = \beta_{hs}/\beta_c$	30/15				
	E-DPDCCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E-TFCIs	5	5	2	5	1
	Reference E-TFCI	11	11	11	11	67
	Reference E-TFCI PO	4	4	4	4	18
	Reference E-TFCI	67	67	92	67	67
	Reference E-TFCI PO	18	18	18	18	18
	Reference E-TFCI	71	71	71	71	71
	Reference E-TFCI PO	23	23	23	23	23
	Reference E-TFCI	75	75	75	75	75
	Reference E-TFCI PO	26	26	26	26	26
	Reference E-TFCI	81	81	81	81	81
	Reference E-TFCI PO	27	27	27	27	27
	Maximum Channelisation Codes	2xSF2				SF4

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108 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

Table E.5.0: Levels for HSDPA connection setup

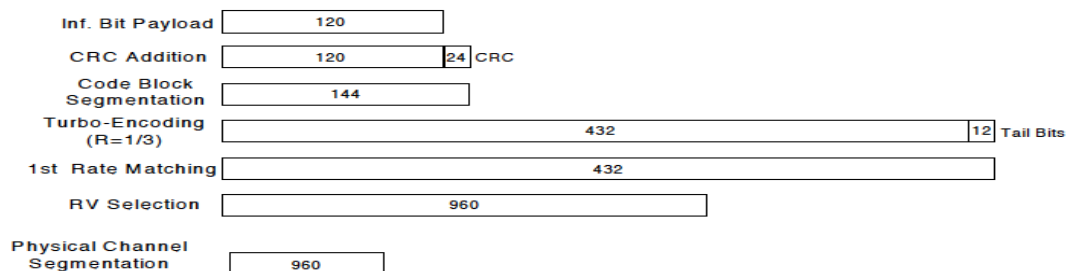
Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

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.

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Proces ses	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
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.		
Note 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 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c/β_d	2/15	11/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	MPR (dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

HSPA+

Since 16QAM is not used for uplink, the uplink Category and release is same as HSUPA, i.e., Rel. 7 Therefore, the RF conducted power is not measured.

W-CDMA Band V Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Avg Pwr (dBm)			
						UAT		LAT	
						HEAD	BODY	HEAD	BODY
W-CDMA Band V	Rel 99	RMC, 12.2 kbps	4132	826.4	N/A	23.5	23.5	25.0	25.0
			4183	836.6	N/A	23.5	23.5	25.0	25.0
			4233	846.6	N/A	23.5	23.5	25.0	25.0
	HSDPA	Subtest 1	4132	826.4	0	23.5	23.5	25.0	25.0
			4183	836.6	0	23.4	23.4	24.9	24.9
			4233	846.6	0	23.5	23.5	24.9	24.9
		Subtest 2	4132	826.4	0	23.5	23.5	25.0	25.0
			4183	836.6	0	23.4	23.4	25.0	25.0
			4233	846.6	0	23.5	23.5	24.9	24.9
		Subtest 3	4132	826.4	0.5	23.0	23.0	24.5	24.5
			4183	836.6	0.5	22.9	22.9	24.5	24.5
			4233	846.6	0.5	22.9	22.9	24.4	24.4
		Subtest 4	4132	826.4	0.5	23.0	23.0	24.4	24.4
			4183	836.6	0.5	22.9	22.9	24.5	24.5
			4233	846.6	0.5	22.9	22.9	24.4	24.4
	HSUPA	Subtest 1	4132	826.4	0	23.5	23.5	25.0	25.0
			4183	836.6	0	23.4	23.4	24.9	24.9
			4233	846.6	0	23.5	23.5	24.9	24.9
		Subtest 2	4132	826.4	2	21.5	21.5	23.0	23.0
			4183	836.6	2	21.4	21.4	22.9	22.9
			4233	846.6	2	21.5	21.5	22.9	22.9
		Subtest 3	4132	826.4	1	22.5	22.5	24.0	24.0
			4183	836.6	1	22.4	22.4	23.9	23.9
			4233	846.6	1	22.5	22.5	23.9	23.9
		Subtest 4	4132	826.4	2	21.4	21.4	23.0	23.0
			4183	836.6	2	21.4	21.4	22.9	22.9
			4233	846.6	2	21.5	21.5	22.9	22.9
		Subtest 5	4132	826.4	0	23.5	23.5	25.0	25.0
			4183	836.6	0	23.4	23.4	24.9	24.9
			4233	846.6	0	23.5	23.5	24.9	24.9
	DC-HSDPA	Subtest 1	4132	826.4	0	23.5	23.5	25.0	25.0
			4183	836.6	0	23.4	23.4	24.9	24.9
			4233	846.6	0	23.5	23.5	24.9	24.9
		Subtest 2	4132	826.4	0	23.4	23.4	24.8	24.8
			4183	836.6	0	23.3	23.3	24.8	24.8
			4233	846.6	0	23.5	23.5	24.8	24.8
		Subtest 3	4132	826.4	0.5	23.0	23.0	24.5	24.5
			4183	836.6	0.5	22.9	22.9	24.4	24.4
			4233	846.6	0.5	23.0	23.0	24.4	24.4
		Subtest 4	4132	826.4	0.5	22.9	22.9	24.3	24.3
			4183	836.6	0.5	22.8	22.8	24.3	24.3
			4233	846.6	0.5	23.0	23.0	24.3	24.3

W-CDMA Band IV Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Avg Pwr (dBm)			
						UAT		LAT	
						HEAD	BODY	HEAD	BODY
W-CDMA Band IV	Rel 99	RMC, 12.2 kbps	1312	1712.4	N/A	17.5	20.0	25.0	19.5
			1413	1732.6	N/A	17.5	20.0	25.0	19.5
			1513	1752.6	N/A	17.5	20.0	25.0	19.5
	HSDPA	Subtest 1	1312	1712.4	0	17.4	19.9	25.0	19.4
			1413	1732.6	0	17.5	19.9	25.0	19.5
			1513	1752.6	0	17.4	19.8	25.0	19.4
		Subtest 2	1312	1712.4	0	17.4	19.9	25.0	19.5
			1413	1732.6	0	17.5	19.9	25.0	19.4
			1513	1752.6	0	17.4	20.0	25.0	19.5
		Subtest 3	1312	1712.4	0.5	16.9	19.5	24.3	18.9
			1413	1732.6	0.5	17.0	19.5	24.5	19.0
			1513	1752.6	0.5	16.9	19.3	24.5	18.9
		Subtest 4	1312	1712.4	0.5	17.0	19.3	24.3	18.9
			1413	1732.6	0.5	17.0	19.5	24.5	19.0
			1513	1752.6	0.5	16.9	19.5	24.5	18.9
	HSUPA	Subtest 1	1312	1712.4	0	17.5	20.0	24.9	19.5
			1413	1732.6	0	17.5	20.0	24.8	19.5
			1513	1752.6	0	17.4	19.8	24.8	19.4
		Subtest 2	1312	1712.4	2	15.5	18.0	22.9	17.5
			1413	1732.6	2	15.5	18.0	22.8	17.5
			1513	1752.6	2	15.4	17.9	22.8	17.4
		Subtest 3	1312	1712.4	1	16.4	19.0	23.9	18.5
			1413	1732.6	1	16.5	19.0	23.8	18.5
			1513	1752.6	1	16.5	18.9	23.8	18.4
		Subtest 4	1312	1712.4	2	15.5	18.0	22.9	17.5
			1413	1732.6	2	15.5	18.0	22.8	17.5
			1513	1752.6	2	15.4	17.9	22.8	17.4
		Subtest 5	1312	1712.4	0	17.5	20.0	24.9	19.5
			1413	1732.6	0	17.5	20.0	24.8	19.5
			1513	1752.6	0	17.4	19.9	24.8	19.4
	DC-HSDPA	Subtest 1	1312	1712.4	0	17.4	20.0	24.9	19.5
			1413	1732.6	0	17.5	20.0	24.8	19.5
			1513	1752.6	0	17.5	19.9	24.8	19.4
		Subtest 2	1312	1712.4	0	17.4	20.0	24.9	19.5
			1413	1732.6	0	17.5	20.0	24.8	19.5
			1513	1752.6	0	17.5	19.9	24.8	19.4
		Subtest 3	1312	1712.4	0.5	17.0	19.5	24.4	19.0
			1413	1732.6	0.5	16.9	19.5	24.3	19.0
			1513	1752.6	0.5	17.0	19.4	24.4	18.9
		Subtest 4	1312	1712.4	0.5	16.9	19.5	24.5	18.8
			1413	1732.6	0.5	17.0	19.5	24.3	18.9
			1513	1752.6	0.5	17.0	19.4	24.4	19.0

W-CDMA Band II Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	MPR (dB)	Avg Pwr (dBm)			
						UAT		LAT	
						HEAD	BODY	HEAD	BODY
W-CDMA Band II	Rel 99	RMC, 12.2 kbps	9262	1852.4	N/A	18.5	21.5	25.0	18.5
			9400	1880.0	N/A	18.5	21.5	25.0	18.5
			9538	1907.6	N/A	18.5	21.5	25.0	18.5
	HSDPA	Subtest 1	9262	1852.4	0	18.5	21.3	24.7	18.5
			9400	1880.0	0	18.4	21.2	24.9	18.5
			9538	1907.6	0	18.4	21.2	24.9	18.5
		Subtest 2	9262	1852.4	0	18.5	21.3	24.7	18.5
			9400	1880.0	0	18.4	21.2	24.9	18.5
			9538	1907.6	0	18.4	21.2	24.9	18.5
		Subtest 3	9262	1852.4	0.5	18.0	20.8	24.2	18.0
			9400	1880.0	0.5	17.9	20.9	24.4	18.0
			9538	1907.6	0.5	17.9	21.0	24.4	18.0
		Subtest 4	9262	1852.4	0.5	18.0	21.0	24.3	18.0
			9400	1880.0	0.5	18.0	20.9	24.5	18.0
			9538	1907.6	0.5	17.9	20.8	24.5	18.0
	HSUPA	Subtest 1	9262	1852.4	0	18.5	21.3	24.7	18.5
			9400	1880.0	0	18.4	21.2	24.9	18.5
			9538	1907.6	0	18.4	21.2	24.9	18.5
		Subtest 2	9262	1852.4	2	16.4	19.4	23.0	16.4
			9400	1880.0	2	16.5	19.4	22.9	16.4
			9538	1907.6	2	16.4	19.3	22.9	16.3
		Subtest 3	9262	1852.4	1	17.5	20.4	23.8	17.4
			9400	1880.0	1	17.4	20.3	23.8	17.4
			9538	1907.6	1	17.4	20.4	23.9	17.5
		Subtest 4	9262	1852.4	2	16.3	19.4	22.8	16.3
			9400	1880.0	2	16.4	19.5	22.8	16.4
			9538	1907.6	2	16.4	19.3	22.8	16.4
		Subtest 5	9262	1852.4	0	18.4	21.2	24.7	18.4
			9400	1880.0	0	18.4	21.2	24.8	18.4
			9538	1907.6	0	18.4	21.2	24.9	18.3
	DC-HSDPA	Subtest 1	9262	1852.4	0	18.5	21.3	24.7	18.5
			9400	1880.0	0	18.4	21.4	24.8	18.5
			9538	1907.6	0	18.4	21.2	24.9	18.4
		Subtest 2	9262	1852.4	0	18.5	21.3	24.7	18.5
			9400	1880.0	0	18.4	21.2	24.9	18.5
			9538	1907.6	0	18.4	21.2	24.9	18.4
		Subtest 3	9262	1852.4	0.5	18.0	21.0	24.2	17.9
			9400	1880.0	0.5	18.0	21.0	24.4	18.0
			9538	1907.6	0.5	18.0	21.0	24.4	18.0
		Subtest 4	9262	1852.4	0.5	18.0	21.0	24.3	17.9
			9400	1880.0	0.5	18.0	20.8	24.4	18.0
			9538	1907.6	0.5	17.8	20.9	24.5	18.0

9.3. CDMA

1x Advanced Setup Procedures used to establish the test signals

Call box setup procedure

- Protocol Rev > 6 (IS-2000-0)
- System ID: 331; NID: 65535, Reg. Ch. #.:
- Radio Config (RC) > Fwd11,Rvs8
- Service Option (SO) Setup > SO75 (Loopback)
- Traffic Data Rate > Full
- Rvs Power Ctrl > All Up bits (Maximum TxPout)
- Reverse Power Control Mode: 00-200 to 400 bps
- Smart blanking was disabled.

CDMA BC0 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Avg Pwr (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
BC 0	1xRTT	RC1 SO55 (Loopback)	1013	824.70	23.5	23.5	25.0	25.0
			384	836.52	23.5	23.5	25.0	25.0
			777	848.31	23.5	23.5	25.0	25.0
		RC3 SO55 (Loopback)	1013	824.70	23.4	23.4	24.8	24.8
			384	836.52	23.5	23.5	24.9	24.9
			777	848.31	23.4	23.4	24.8	24.8
		RC3 SO32 (+F-SCH)	1013	824.70	23.5	23.5	25.0	25.0
			384	836.52	23.5	23.5	25.0	25.0
			777	848.31	23.5	23.5	25.0	25.0
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	23.4	23.4	24.9	24.9
			384	836.52	23.5	23.5	24.9	24.9
			777	848.31	23.4	23.4	24.9	24.9
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	1013	824.70	23.5	23.5	25.0	25.0
			384	836.52	23.5	23.5	25.0	25.0
			777	848.31	23.5	23.5	25.0	25.0
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	1013	824.70	23.4	23.4	24.9	24.9
			384	836.52	23.4	23.4	24.9	24.9
			777	848.31	23.4	23.4	24.9	24.9

CDMA BC1 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Avg Pwr (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
BC 1	1xRTT	RC1 SO55 (Loopback)	25	1851.25	18.5	21.0	25.0	18.5
			600	1880.00	18.5	21.0	25.0	18.5
			1175	1908.75	18.5	21.0	25.0	18.5
		RC3 SO55 (Loopback)	25	1851.25	18.5	20.9	25.0	18.4
			600	1880.00	18.5	21.0	25.0	18.5
			1175	1908.75	18.4	21.0	24.9	18.5
		RC3 SO32 (+F-SCH)	25	1851.25	18.5	21.0	25.0	18.5
			600	1880.00	18.5	21.0	25.0	18.5
			1175	1908.75	18.5	21.0	25.0	18.5
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	18.4	20.9	24.9	18.4
			600	1880.00	18.5	20.9	24.9	18.4
			1175	1908.75	18.4	20.9	24.9	18.4
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1851.25	18.5	21.0	25.0	18.5
			600	1880.00	18.5	21.0	25.0	18.5
			1175	1908.75	18.5	21.0	25.0	18.5
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1851.25	18.4	20.9	24.9	18.5
			600	1880.00	18.4	21.0	25.0	18.5
			1175	1908.75	18.4	21.0	24.9	18.5

CDMA BC10 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Avg Pwr (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
BC 10	1xRTT	RC1 SO55 (Loopback)	476	817.90	23.5	23.5	25.0	25.0
			580	820.50	23.5	23.5	25.0	25.0
			684	823.10	23.5	23.5	25.0	25.0
		RC3 SO55 (Loopback)	476	817.90	23.3	23.3	24.7	24.7
			580	820.50	23.4	23.4	25.0	25.0
			684	823.10	23.4	23.4	24.8	24.8
		RC3 SO32 (+F-SCH)	476	817.90	23.5	23.5	25.0	25.0
			580	820.50	23.5	23.5	25.0	25.0
			684	823.10	23.5	23.5	25.0	25.0
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	476	817.90	23.3	23.3	24.9	24.9
			580	820.50	23.5	23.5	24.9	24.9
			684	823.10	23.5	23.5	24.9	24.9
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	476	817.90	23.5	23.5	25.0	25.0
			580	820.50	23.5	23.5	25.0	25.0
			684	823.10	23.5	23.5	25.0	25.0
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	476	817.90	23.4	23.4	24.7	24.7
			580	820.50	23.4	23.4	24.8	24.8
			684	823.10	23.3	23.3	24.6	24.6

CDMA BC15 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Avg Pwr (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
BC 15	1xRTT	RC1 SO55 (Loopback)	25	1711.25	17.5	19.9	25.0	19.4
			450	1732.50	17.5	19.9	25.0	19.5
			875	1753.75	17.5	19.9	25.0	19.5
		RC3 SO55 (Loopback)	25	1711.25	17.4	20.0	24.9	19.4
			450	1732.50	17.5	20.0	24.9	19.5
			875	1753.75	17.4	19.9	25.0	19.5
		RC3 SO32 (+F-SCH)	25	1711.25	17.4	20.0	24.9	19.5
			450	1732.50	17.5	20.0	25.0	19.5
			875	1753.75	17.5	20.0	25.0	19.5
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1711.25	17.4	19.9	24.9	19.4
			450	1732.50	17.5	19.9	25.0	19.4
			875	1753.75	17.5	19.9	24.9	19.4
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1711.25	17.5	19.9	25.0	19.5
			450	1732.50	17.5	19.9	25.0	19.5
			875	1753.75	17.5	20.0	25.0	19.5
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1711.25	17.4	19.9	24.9	19.4
			450	1732.50	17.4	19.9	25.0	19.5
			875	1753.75	17.5	20.0	24.9	19.4

9.4. LTE

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

Modulation	Channel bandwidth / Transmission bandwidth (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

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signalling Value of "NS_01".

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

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

LTE Band 2 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD				UAT / BODY				LAT / HEAD				LAT / BODY		
						1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz
LTE Band 2	20	QPSK	1	0	0	18.5	18.5	18.5	0	21.1	21.1	21.3	0	23.7	23.7	23.8	0	18.5	18.5	18.5
			1	49	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	24.0	24.0	24.0	0	18.5	18.5	18.5
			1	99	0	18.5	18.5	18.5	0	21.3	21.5	21.4	0	23.6	23.5	23.6	0	18.5	18.5	18.5
			50	0	1	17.5	17.4	17.5	1	20.1	20.1	20.0	1	22.7	22.7	22.8	1	17.5	17.5	17.5
			50	24	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			50	49	1	17.5	17.5	17.5	1	20.3	20.5	20.4	1	22.6	22.8	22.6	1	17.4	17.4	17.4
		16QAM	100	0	1	17.5	17.5	17.5	1	20.1	20.5	20.0	1	22.7	23.0	22.8	1	17.5	17.5	17.5
			1	0	1	17.4	17.4	17.5	1	20.4	20.4	20.3	1	22.7	22.7	22.8	1	17.5	17.5	17.5
			1	49	1	17.5	17.5	17.4	1	20.5	20.5	20.5	1	22.7	23.0	23.0	1	17.2	17.5	17.4
			1	99	1	17.5	17.5	17.5	1	20.3	20.5	20.4	1	22.6	22.5	22.6	1	17.5	17.5	17.5
			50	0	2	16.5	16.5	16.5	2	19.5	19.5	19.4	2	21.7	21.7	21.8	2	16.4	16.4	16.5
			50	24	2	16.4	16.5	16.5	2	19.5	19.4	19.4	2	21.9	22.0	22.0	2	16.5	16.5	16.5
			50	49	2	16.5	16.5	16.4	2	19.3	19.5	19.5	2	21.6	21.6	21.7	2	16.4	16.5	16.4
			100	0	2	16.5	16.4	16.5	2	19.5	19.4	19.4	2	21.7	21.7	21.8	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz
LTE Band 2	15	QPSK	1	0	0	18.4	18.5	18.4	0	21.4	21.2	21.3	0	23.5	23.5	23.5	0	18.3	18.3	18.2
			1	36	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	23.9	23.9	24.0	0	18.1	18.1	18.2
			1	74	0	18.4	18.3	18.4	0	21.3	21.5	21.5	0	23.6	23.5	23.4	0	18.5	18.5	18.3
			36	0	1	17.5	17.4	17.5	1	20.4	20.3	20.3	1	22.7	22.7	22.8	1	17.5	17.5	17.5
			36	18	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	22.9	23.0	23.0	1	17.5	17.5	17.5
			36	37	1	17.5	17.4	17.5	1	20.3	20.4	20.4	1	22.6	22.6	22.7	1	17.5	17.5	17.5
		16QAM	75	0	1	17.5	17.3	17.4	1	20.3	20.4	20.4	1	22.7	22.7	22.8	1	17.5	17.5	17.5
			1	0	1	17.4	17.4	17.5	1	20.4	20.4	20.3	1	22.3	22.8	22.7	1	17.1	17.5	17.4
			1	36	1	17.3	17.5	17.4	1	20.4	20.5	20.4	1	22.5	23.1	22.9	1	17.0	17.5	17.4
			1	74	1	17.5	17.5	17.5	1	20.3	20.3	20.4	1	22.5	22.5	22.6	1	17.4	17.5	17.5
			36	0	2	16.3	16.5	16.4	2	19.4	19.5	19.4	2	21.7	21.7	21.8	2	16.5	16.5	16.5
			36	18	2	16.4	16.4	16.4	2	19.5	19.3	19.3	2	21.9	22.0	22.0	2	16.5	16.5	16.5
			36	37	2	16.5	16.5	16.4	2	19.4	19.3	19.5	2	21.6	21.6	21.7	2	16.5	16.5	16.5
			75	0	2	16.5	16.4	16.5	2	19.5	19.4	19.4	2	21.7	21.7	21.8	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz
LTE Band 2	10	QPSK	1	0	0	18.4	18.5	18.5	0	21.4	21.1	21.3	0	23.4	23.5	23.4	0	18.2	18.2	18.1
			1	24	0	18.4	18.4	18.4	0	21.5	21.5	21.4	0	23.9	24.0	24.0	0	18.0	17.9	18.0
			1	49	0	18.4	18.4	18.5	0	21.3	21.4	21.4	0	23.5	23.1	23.2	0	18.4	18.1	18.1
			25	0	1	17.5	17.4	17.5	1	20.3	20.5	20.3	1	22.7	22.7	22.8	1	17.5	17.5	17.5
			25	12	1	17.3	17.5	17.4	1	20.5	20.5	20.5	1	22.9	23.0	23.0	1	17.5	17.5	17.5
			25	24	1	17.4	17.5	17.5	1	20.3	20.5	20.4	1	22.6	22.6	22.7	1	17.5	17.5	17.5
		16QAM	50	0	1	17.5	17.5	17.4	1	20.1	20.1	20.3	1	22.6	22.6	22.8	1	17.4	17.4	17.5
			1	0	1	17.4	17.4	17.4	1	20.4	20.4	20.3	1	22.4	22.3	22.6	1	17.2	17.1	17.3
			1	24	1	17.5	17.5	17.4	1	20.5	20.5	20.5	1	22.3	22.4	22.8	1	16.8	16.8	17.2
			1	49	1	17.3	17.5	17.4	1	20.3	20.5	20.4	1	22.2	22.1	22.3	1	17.1	17.1	17.3
			25	0	2	16.3	16.5	16.3	2	19.5	19.5	19.4	2	21.6	21.7	21.8	2	16.4	16.5	16.5
			25	12	2	16.5	16.5	16.4	2	19.5	19.4	19.4	2	21.8	22.0	22.0	2	16.4	16.4	16.3
			25	24	2	16.4	16.5	16.4	2	19.5	19.5	19.4	2	21.5	21.6	21.7	2	16.4	16.5	16.4
			50	0	2	16.5	16.4	16.5	2	19.5	19.4	19.4	2	21.7	21.6	21.8	2	16.5	16.4	16.5

LTE Band 2 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz
LTE Band 2	5	QPSK	1	0	0	18.4	18.5	18.5	0	21.4	21.5	21.3	0	23.7	23.7	23.8	0	18.1	18.0	18.1
			1	12	0	18.4	18.5	18.4	0	21.5	21.5	21.5	0	23.9	24.0	24.0	0	18.0	17.9	18.0
			1	24	0	18.4	18.5	18.5	0	21.5	21.4	21.4	0	23.6	23.5	23.6	0	18.1	18.1	18.1
			12	0	1	17.5	17.4	17.5	1	20.3	20.5	20.3	1	22.7	22.7	22.8	1	17.5	17.4	17.5
			12	7	1	17.3	17.5	17.4	1	20.4	20.5	20.4	1	22.9	23.0	23.0	1	17.5	17.5	17.5
			12	13	1	17.4	17.5	17.5	1	20.3	20.5	20.4	1	22.6	22.5	22.6	1	17.5	17.5	17.5
			25	0	1	17.4	17.5	17.4	1	20.1	20.1	20.3	1	22.7	22.7	22.8	1	17.3	17.3	17.5
		16QAM	1	0	1	17.4	17.4	17.5	1	20.4	20.4	20.4	1	22.7	22.7	22.8	1	17.0	17.5	17.1
			1	12	1	17.5	17.4	17.5	1	20.5	20.5	20.5	1	22.7	23.0	23.0	1	16.9	17.4	17.1
			1	24	1	17.3	17.5	17.4	1	20.3	20.5	20.4	1	22.6	22.5	22.6	1	17.1	17.5	17.1
			12	0	2	16.3	16.3	16.3	2	19.5	19.5	19.4	2	21.7	21.7	21.8	2	16.4	16.3	16.5
			12	7	2	16.4	16.4	16.4	2	19.5	19.4	19.5	2	21.9	22.0	22.0	2	16.4	16.3	16.5
			12	13	2	16.4	16.5	16.5	2	19.5	19.5	19.5	2	21.6	21.6	21.7	2	16.4	16.3	16.5
			25	0	2	16.5	16.4	16.5	2	19.5	19.4	19.4	2	21.7	21.7	21.8	2	16.4	16.3	16.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz
LTE Band 2	3	QPSK	1	0	0	18.4	18.5	18.5	0	21.4	21.1	21.3	0	23.5	23.7	23.6	0	17.9	18.0	17.9
			1	8	0	18.4	18.4	18.4	0	21.5	21.5	21.4	0	23.9	24.0	23.9	0	18.0	17.9	17.9
			1	14	0	18.5	18.4	18.5	0	21.3	21.4	21.5	0	23.5	23.3	23.4	0	18.0	17.9	17.9
			8	0	1	17.5	17.4	17.4	1	20.3	20.5	20.3	1	22.4	22.1	22.6	1	17.3	17.5	17.5
			8	4	1	17.3	17.5	17.4	1	20.5	20.3	20.5	1	22.6	22.3	22.8	1	17.3	17.4	17.5
			8	7	1	17.4	17.5	17.5	1	20.3	20.5	20.4	1	22.3	21.8	22.4	1	17.3	17.4	17.5
			15	0	1	17.4	17.5	17.4	1	20.1	20.1	20.5	1	22.8	22.7	22.8	1	17.4	17.3	17.5
		16QAM	1	0	1	17.4	17.4	17.3	1	20.4	20.4	20.4	1	22.4	22.1	22.8	1	16.7	16.9	17.1
			1	8	1	17.5	17.5	17.4	1	20.4	20.5	20.5	1	22.6	22.4	23.0	1	16.8	16.7	17.1
			1	14	1	17.3	17.5	17.5	1	20.3	20.5	20.4	1	22.2	21.7	22.6	1	16.7	16.7	17.1
			8	0	2	16.3	16.5	16.3	2	19.4	19.5	19.3	2	21.7	21.7	21.6	2	16.4	16.3	16.3
			8	4	2	16.5	16.4	16.5	2	19.5	19.5	19.4	2	21.9	22.0	21.8	2	16.4	16.3	16.3
			8	7	2	16.4	16.5	16.4	2	19.5	19.5	19.4	2	21.6	21.6	21.6	2	16.4	16.3	16.4
			15	0	2	16.5	16.4	16.5	2	19.4	19.4	19.4	2	21.7	21.7	21.8	2	16.4	16.3	16.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz
LTE Band 2	1.4	QPSK	1	0	0	18.4	18.5	18.5	0	21.4	21.4	21.3	0	23.5	23.5	23.6	0	17.9	17.8	17.9
			1	3	0	18.4	18.5	18.4	0	21.5	21.5	21.5	0	23.9	23.9	23.9	0	18.5	18.3	18.3
			1	5	0	18.5	18.4	18.5	0	21.4	21.4	21.5	0	23.4	23.3	23.4	0	17.9	17.9	17.9
			3	0	0	18.5	18.4	18.5	0	21.3	21.5	21.3	0	23.6	23.1	23.6	0	18.1	18.0	18.0
			3	1	0	18.3	18.4	18.4	0	21.5	21.5	21.5	0	23.7	23.3	23.7	0	18.1	18.0	18.2
			3	3	0	18.4	18.5	18.5	0	21.3	21.5	21.4	0	23.5	22.9	23.4	0	18.5	18.1	18.3
			6	0	1	17.4	17.3	17.4	1	20.1	20.1	20.3	1	22.7	22.7	22.6	1	17.3	17.3	17.3
		16QAM	1	0	1	17.4	17.4	17.4	1	20.5	20.4	20.5	1	22.7	21.8	22.4	1	17.0	17.0	17.2
			1	3	1	17.5	17.5	17.4	1	20.5	20.5	20.5	1	22.9	22.3	22.6	1	17.1	17.1	17.2
			1	5	1	17.3	17.4	17.4	1	20.3	20.5	20.4	1	22.4	22.7	22.2	1	17.2	17.3	17.3
			3	0	1	17.3	17.5	17.3	1	20.5	20.5	20.5	1	22.7	22.7	22.6	1	17.3	17.2	17.2
			3	1	1	17.4	17.4	17.4	1	20.5	20.4	20.5	1	22.9	23.0	22.8	1	17.3	17.2	17.3
			3	3	1	17.4	17.4	17.4	1	20.4	20.5	20.4	1	22.6	22.6	22.6	1	17.2	17.3	17.3
			6	0	2	16.5	16.4	16.5	2	19.5	19.4	19.4	2	21.8	21.8	21.9	2	16.5	16.4	16.5

LTE Band 4 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz
LTE Band 4	20	QPSK	1	0	0	17.5	17.4	17.4	0	19.9	19.9	19.8	0	24.0	24.0	23.5	0	19.4	19.4	19.2
			1	49	0	17.5	17.5	17.5	0	20.0	20.0	20.0	0	24.0	24.0	24.0	0	19.5	19.5	19.5
			1	99	0	17.5	17.5	17.5	0	20.0	19.9	20.0	0	24.0	24.0	24.0	0	19.5	19.5	19.3
			50	0	1	16.4	16.5	16.5	1	18.8	19.0	18.8	1	23.0	23.0	23.0	1	18.5	18.5	18.5
			50	24	1	16.5	16.5	16.5	1	19.0	19.0	19.0	1	23.0	23.0	23.0	1	18.5	18.5	18.5
			50	49	1	16.5	16.5	16.5	1	18.9	19.0	18.9	1	23.0	23.0	23.0	1	18.5	18.5	18.5
			100	0	1	16.5	16.5	16.5	1	18.8	19.0	18.8	1	23.0	23.0	23.0	1	18.5	18.5	18.5
		16QAM	1	0	1	16.5	16.5	16.5	1	19.0	18.9	19.0	1	23.0	23.0	23.0	1	18.8	18.7	18.4
			1	49	1	16.5	16.5	16.5	1	18.9	19.0	18.9	1	23.0	23.0	23.0	1	18.5	18.5	18.2
			1	99	1	16.5	16.5	16.5	1	18.8	18.9	18.9	1	23.0	23.0	23.0	1	19.0	19.0	18.6
			50	0	2	15.5	15.4	15.3	2	18.0	18.0	18.0	2	22.0	22.0	22.0	2	17.5	17.5	17.5
			50	24	2	15.4	15.5	15.5	2	18.0	17.9	18.0	2	22.0	22.0	22.0	2	17.5	17.5	17.4
			50	49	2	15.5	15.5	15.5	2	17.9	18.0	18.0	2	22.0	22.0	22.0	2	17.4	17.5	17.4
			100	0	2	15.5	15.3	15.5	2	18.0	17.9	17.9	2	22.0	22.0	22.0	2	17.4	17.5	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz
LTE Band 4	15	QPSK	1	0	0	17.5	17.4	17.4	0	19.9	19.9	19.9	0	24.0	24.0	23.7	0	19.4	19.4	19.4
			1	36	0	17.5	17.5	17.5	0	20.0	19.9	20.0	0	24.0	23.9	24.0	0	19.3	19.2	19.2
			1	74	0	17.5	17.5	17.5	0	20.0	19.9	20.0	0	23.9	23.9	24.0	0	19.4	19.4	19.3
			36	0	1	16.4	16.5	16.5	1	18.8	19.0	18.8	1	22.8	22.9	22.8	1	18.3	18.4	18.3
			36	18	1	16.5	16.5	16.5	1	18.9	19.0	19.0	1	22.8	22.9	22.8	1	18.3	18.4	18.3
			36	37	1	16.5	16.4	16.5	1	18.9	18.9	18.9	1	22.9	22.9	22.8	1	18.4	18.4	18.3
			75	0	1	16.5	16.5	16.5	1	18.8	18.7	18.8	1	22.9	22.9	22.8	1	18.4	18.4	18.3
		16QAM	1	0	1	16.5	16.5	16.5	1	19.0	18.9	19.0	1	22.4	23.0	23.2	1	18.2	18.7	18.6
			1	36	1	16.5	16.5	16.5	1	18.9	18.9	18.9	1	22.7	23.1	23.2	1	18.2	18.6	18.4
			1	74	1	16.5	16.5	16.4	1	18.8	18.9	18.9	1	22.3	22.6	23.0	1	18.3	18.6	18.6
			36	0	2	15.5	15.4	15.3	2	18.0	18.0	18.0	2	21.8	21.9	21.8	2	17.3	17.4	17.3
			36	18	2	15.4	15.5	15.4	2	17.9	17.9	17.9	2	21.8	21.9	21.9	2	17.3	17.4	17.3
			36	37	2	15.5	15.4	15.5	2	17.9	18.0	18.0	2	21.9	21.9	21.9	2	17.3	17.4	17.3
			75	0	2	15.5	15.3	15.5	2	18.0	17.9	17.9	2	22.0	22.0	22.0	2	17.4	17.5	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz
LTE Band 4	10	QPSK	1	0	0	17.5	17.4	17.4	0	19.9	19.9	19.9	0	23.9	23.9	23.6	0	19.3	19.3	19.3
			1	24	0	17.5	17.5	17.5	0	20.0	20.0	20.0	0	23.8	23.9	24.0	0	19.1	19.2	19.2
			1	49	0	17.5	17.5	17.5	0	20.0	20.0	20.0	0	23.7	23.7	23.9	0	19.2	19.2	19.2
			25	0	1	16.5	16.5	16.5	1	18.8	19.0	18.8	1	22.9	22.9	23.3	1	18.4	18.4	18.8
			25	12	1	16.5	16.5	16.5	1	18.9	19.0	19.0	1	22.9	22.9	23.3	1	18.4	18.4	18.8
			25	24	1	16.4	16.4	16.5	1	18.9	18.9	18.9	1	22.9	23.0	23.3	1	18.4	18.5	18.8
			50	0	1	16.5	16.5	16.4	1	18.9	19.0	19.0	1	22.7	22.9	23.1	1	18.2	18.4	18.6
		16QAM	1	0	1	16.5	16.5	16.5	1	19.0	18.9	19.0	1	22.4	22.5	23.2	1	18.2	18.2	18.6
			1	24	1	16.5	16.5	16.5	1	19.0	18.9	18.9	1	22.4	22.6	23.1	1	17.9	18.1	18.3
			1	49	1	16.5	16.4	16.4	1	18.8	18.9	18.9	1	22.0	22.1	23.8	1	18.0	18.1	19.4
			25	0	2	15.4	15.4	15.4	2	18.0	18.0	18.0	2	21.6	21.7	21.5	2	17.1	17.2	17.0
			25	12	2	15.4	15.4	15.4	2	18.0	18.0	17.9	2	21.6	21.7	21.6	2	17.1	17.2	17.0
			25	24	2	15.5	15.4	15.4	2	17.9	18.0	18.0	2	21.7	21.7	21.6	2	17.1	17.2	17.0
			50	0	2	15.5	15.3	15.5	2	18.0	17.9	17.9	2	21.7	21.6	21.6	2	17.1	17.1	17.0

LTE Band 4 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz
LTE Band 4	5	QPSK	1	0	0	17.3	17.4	17.4	0	19.9	19.9	19.9	0	23.9	23.8	23.3	0	19.3	19.4	19.2
			1	12	0	17.5	17.5	17.5	0	20.0	20.0	20.0	0	23.9	23.7	23.7	0	19.3	19.5	19.4
			1	24	0	17.4	17.5	17.5	0	20.0	20.0	20.0	0	23.9	23.9	23.8	0	19.3	19.3	19.2
			12	0	1	16.5	16.5	16.5	1	18.8	19.0	18.8	1	22.9	22.0	23.0	1	18.2	18.2	18.5
			12	7	1	16.5	16.5	16.4	1	18.9	19.0	19.0	1	22.9	21.8	23.0	1	18.2	18.3	18.5
			12	13	1	16.4	16.4	16.5	1	18.9	18.9	18.9	1	22.8	21.9	23.0	1	18.2	18.2	18.5
		16QAM	25	0	1	16.5	16.4	16.3	1	18.9	19.0	19.0	1	22.7	22.2	23.1	1	18.2	18.3	18.3
			1	0	1	16.5	16.5	16.5	1	19.0	18.9	19.0	1	22.8	22.2	23.0	1	17.9	18.3	18.2
			1	12	1	16.5	16.5	16.5	1	19.0	18.9	18.9	1	22.9	21.1	23.2	1	17.9	18.5	18.1
			1	24	1	16.5	16.5	16.5	1	18.8	18.9	18.9	1	22.8	22.0	23.1	1	17.9	18.5	18.1
			12	0	2	15.4	15.4	15.4	2	18.0	18.0	18.0	2	22.0	22.0	22.0	2	17.1	17.1	17.0
			12	7	2	15.4	15.5	15.4	2	18.0	18.0	17.9	2	22.0	21.9	22.0	2	17.1	17.1	17.0
			12	13	2	15.5	15.4	15.4	2	17.9	18.0	18.0	2	22.0	22.0	21.9	2	17.1	17.1	17.0
			25	0	2	15.5	15.3	15.5	2	18.0	17.9	17.9	2	22.0	22.0	22.0	2	17.1	17.1	17.0
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz
LTE Band 4	3	QPSK	1	0	0	17.3	17.4	17.4	0	19.9	19.9	19.9	0	23.9	23.8	23.3	0	19.2	19.2	19.0
			1	8	0	17.5	17.5	17.5	0	20.0	19.9	20.0	0	23.9	23.7	23.7	0	19.2	19.2	19.1
			1	14	0	17.4	17.5	17.5	0	19.9	20.0	19.9	0	23.9	23.9	23.8	0	19.2	19.2	19.0
			8	0	1	16.5	16.5	16.5	1	18.8	19.0	18.8	1	22.9	22.0	23.0	1	18.1	18.2	18.5
			8	4	1	16.5	16.5	16.4	1	19.0	19.0	19.0	1	22.9	21.8	23.0	1	18.1	18.1	18.5
			8	7	1	16.4	16.3	16.5	1	19.0	18.9	18.9	1	22.8	21.9	23.0	1	18.0	18.1	18.5
		16QAM	15	0	1	16.4	16.5	16.4	1	18.9	19.0	19.0	1	22.7	22.2	23.0	1	17.9	18.0	18.4
			1	0	1	16.5	16.5	16.5	1	19.0	18.9	19.0	1	22.8	22.2	23.0	1	17.7	18.0	18.2
			1	8	1	16.5	16.5	16.5	1	19.0	18.9	18.9	1	22.9	21.1	22.9	1	17.8	17.0	18.3
			1	14	1	16.5	16.5	16.4	1	18.8	18.9	18.9	1	22.8	22.0	22.9	1	17.7	17.9	18.2
			8	0	2	15.5	15.5	15.4	2	18.0	18.0	18.0	2	22.0	22.0	22.0	2	17.1	17.1	17.1
			8	4	2	15.4	15.5	15.4	2	18.0	17.9	17.9	2	22.0	22.0	22.0	2	17.1	17.1	17.1
			8	7	2	15.5	15.3	15.5	2	17.9	18.0	17.8	2	22.0	21.9	22.0	2	17.1	17.3	17.3
			15	0	2	15.5	15.3	15.5	2	18.0	17.9	17.9	2	22.0	22.0	22.0	2	17.1	17.3	17.3
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz
LTE Band 4	1.4	QPSK	1	0	0	17.3	17.4	17.4	0	19.9	19.9	19.9	0	23.9	23.8	23.3	0	19.2	19.2	19.0
			1	3	0	17.5	17.5	17.3	0	20.0	19.9	20.0	0	23.9	23.7	23.7	0	19.2	19.2	19.1
			1	5	0	17.4	17.5	17.5	0	19.9	20.0	20.0	0	23.8	23.9	23.8	0	19.1	19.2	19.0
			3	0	0	17.5	17.5	17.4	0	20.0	20.0	19.9	0	23.9	23.9	23.6	0	19.2	19.1	19.4
			3	1	0	17.5	17.5	17.5	0	20.0	19.9	20.0	0	23.8	23.8	23.7	0	19.2	19.1	19.4
			3	3	0	17.4	17.5	17.5	0	20.0	20.0	19.9	0	23.8	23.9	23.6	0	19.2	19.1	19.3
		16QAM	6	0	1	16.5	16.4	16.5	1	18.8	19.0	18.8	1	22.8	22.7	23.0	1	18.3	18.4	18.3
			1	0	1	16.5	16.5	16.4	1	18.9	19.0	19.0	1	22.8	22.3	22.9	1	18.3	18.4	18.4
			1	3	1	16.5	16.3	16.5	1	19.0	18.9	18.9	1	22.9	22.6	22.9	1	18.1	18.3	18.4
			1	5	1	16.4	16.4	16.4	1	18.9	18.8	19.0	1	23.0	22.8	22.9	1	18.3	18.4	18.5
			3	0	1	16.5	16.5	16.4	1	18.8	18.9	18.8	1	23.0	22.9	22.8	1	18.5	18.5	18.5
			3	1	1	16.4	16.4	16.5	1	19.0	18.8	18.9	1	22.9	22.7	22.8	1	18.4	18.4	18.4
			3	3	1	16.5	16.3	16.4	1	18.8	18.9	18.8	1	22.8	22.8	22.7	1	18.3	18.5	18.3
			6	0	2	15.5	15.5	15.4	2	17.9	18.0	18.0	2	22.0	21.9	22.0	2	17.1	17.0	17.0

LTE Band 5 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz
LTE Band 5	10	QPSK	1	0	0	22.4	22.3	22.3	0	22.4	22.3	22.3	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			1	24	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	49	0	22.3	22.4	22.4	0	22.3	22.4	22.4	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			25	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			25	12	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	24	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	22.9	22.8	1	22.9	22.9	22.8
		16QAM	50	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	23.0	22.8	1	22.8	23.0	22.8
			1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	24	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			1	49	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.9	21.8	2	21.8	21.9	21.8
			25	12	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.9	21.8	2	21.8	21.9	21.8
			25	24	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.9	21.8	2	21.8	21.9	21.8
			50	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	21.8	21.8	2	21.9	21.8	21.8
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz
LTE Band 5	5	QPSK	1	0	0	22.4	22.3	22.3	0	22.4	22.3	22.3	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			1	12	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	24	0	22.3	22.4	22.4	0	22.3	22.4	22.4	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			12	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	7	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	13	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	22.9	23.0	1	22.9	22.9	23.0
		16QAM	25	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	22.9	22.9	1	22.8	22.9	22.9
			1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	22.9	22.8	1	22.8	22.9	22.8
			1	12	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	22.9	23.0	1	22.8	22.9	23.0
			1	24	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	0	2	20.5	20.4	20.5	2	20.5	20.4	20.5	2	21.9	21.8	21.7	2	21.9	21.8	21.7
			12	7	2	20.4	20.5	20.5	2	20.4	20.5	20.5	2	21.8	21.8	21.7	2	21.8	21.8	21.7
			12	13	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			25	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.8	21.8	2	21.8	21.8	21.8
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz
LTE Band 5	3	QPSK	1	0	0	22.4	22.3	22.3	0	22.4	22.3	22.3	0	23.9	24.0	23.9	0	23.9	24.0	23.9
			1	8	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	23.9	24.0	24.0	0	23.9	24.0	24.0
			1	14	0	22.3	22.4	22.4	0	22.3	22.4	22.4	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			8	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	23.0	22.9	1	22.8	23.0	22.9
			8	4	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.7	23.0	22.9	1	22.7	23.0	22.9
			8	7	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.7	23.0	23.0	1	22.7	23.0	23.0
			15	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	22.9	22.9	1	22.9	22.9	22.9
		16QAM	1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	23.0	23.0	1	22.8	23.0	23.0
			1	8	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			1	14	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.7	23.0	23.0	1	22.7	23.0	23.0
			8	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			8	4	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.8	21.8	2	21.8	21.8	21.8
			8	7	2	20.4	20.5	20.4	2	20.4	20.5	20.4	2	21.8	21.8	21.8	2	21.8	21.8	21.8
			15	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	21.8	21.8	2	21.9	21.8	21.8

LTE Band 5 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz
LTE Band 5	1.4	QPSK	1	0	0	22.4	22.3	22.3	0	22.4	22.3	22.3	0	23.9	24.0	24.0	0	23.9	24.0	24.0
			1	2	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	5	0	22.3	22.4	22.4	0	22.3	22.4	22.4	0	23.9	24.0	24.0	0	23.9	24.0	24.0
			3	0	0	22.3	22.4	22.3	0	22.3	22.4	22.3	0	23.9	23.9	23.9	0	23.9	23.9	23.9
			3	1	0	22.4	22.5	22.4	0	22.4	22.5	22.4	0	23.9	23.8	23.9	0	23.9	23.8	23.9
			3	2	0	22.4	22.4	22.4	0	22.4	22.4	22.4	0	23.9	23.8	23.9	0	23.9	23.8	23.9
		16QAM	6	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	2	1	21.5	21.5	21.4	1	21.5	21.5	21.4	1	22.9	22.8	23.0	1	22.9	22.8	23.0
			1	5	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	22.9	1	23.0	22.9	22.9
			3	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			3	1	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	22.9	22.8	1	22.9	22.9	22.8
			3	2	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	22.9	1	23.0	22.9	22.9
			6	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.8	21.9	21.8	2	21.8	21.9	21.8

LTE Band 7 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz
LTE Band 7	20	QPSK	1	0	0	17.7	17.9	17.9	0	17.3	17.7	17.5	0	21.9	22.0	21.9	0	17.5	17.5	17.5
			1	49	0	18.0	18.0	18.0	0	17.7	17.7	17.7	0	22.0	22.0	22.0	0	17.5	17.5	17.5
			1	99	0	18.0	18.0	17.8	0	17.7	17.7	17.7	0	22.0	22.0	22.0	0	17.5	17.5	17.5
			50	0	1	17.0	16.9	17.0	1	16.7	16.7	16.7	1	20.9	20.9	20.9	1	16.5	16.5	16.5
			50	24	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	21.0	20.9	1	16.4	16.5	16.4
			50	49	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	21.0	20.9	1	16.4	16.4	16.4
			100	0	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	21.0	21.0	21.0	1	16.4	16.5	16.5
		16QAM	1	0	1	17.0	17.0	16.9	1	16.7	16.7	16.7	1	20.9	20.9	20.9	1	16.4	16.4	16.5
			1	49	1	16.9	17.0	17.0	1	16.7	16.7	16.7	1	20.9	20.9	20.9	1	16.4	16.4	16.5
			1	99	1	17.0	16.9	17.0	1	16.7	16.7	16.7	1	20.9	20.9	20.9	1	16.5	16.5	16.5
			50	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.9	20.0	2	15.4	15.5	15.5
			50	24	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	20.0	19.9	20.0	2	15.5	15.5	15.5
			50	49	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	20.0	19.9	20.0	2	15.5	15.5	15.5
			100	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	20.0	20.0	20.0	2	15.5	15.5	15.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz
LTE Band 7	15	QPSK	1	0	0	17.7	17.9	17.9	0	17.3	17.7	17.5	0	21.9	22.0	22.0	0	17.5	17.5	17.5
			1	36	0	18.0	17.8	17.9	0	17.7	17.7	17.7	0	21.9	22.0	21.9	0	17.4	17.5	17.5
			1	74	0	18.0	18.0	17.8	0	17.7	17.7	17.7	0	22.0	22.0	22.0	0	17.5	17.5	17.5
			36	0	1	17.0	16.9	17.0	1	16.7	16.7	16.7	1	20.9	21.0	21.0	1	16.3	16.4	16.4
			36	18	1	17.0	16.9	17.0	1	16.7	16.7	16.7	1	20.9	21.0	21.0	1	16.3	16.4	16.4
			36	37	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	21.0	21.0	1	16.3	16.4	16.4
			75	0	1	17.0	16.9	17.0	1	16.7	16.7	16.7	1	20.7	20.8	20.8	1	16.3	16.4	16.4
		16QAM	1	0	1	16.9	17.0	16.9	1	16.7	16.7	16.7	1	21.0	21.0	20.9	1	16.3	16.4	16.4
			1	36	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.8	20.9	21.0	1	16.3	16.3	16.4
			1	74	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.1	20.3	20.4	1	16.3	16.4	16.4
			36	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	20.0	19.9	19.9	2	15.5	15.4	15.5
			36	18	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.9	19.8	2	15.5	15.4	15.5
			36	37	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.9	19.8	2	15.5	15.4	15.5
			75	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.8	19.9	2	15.5	15.5	15.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz
LTE Band 7	10	QPSK	1	0	0	18.0	18.0	18.0	0	17.7	17.6	17.7	0	21.9	22.0	22.0	0	17.5	17.5	17.4
			1	24	0	18.0	18.0	18.0	0	17.7	17.7	17.6	0	22.0	22.0	22.0	0	17.3	17.2	17.2
			1	49	0	18.0	18.0	18.0	0	17.7	17.7	17.7	0	22.0	22.0	21.9	0	17.4	17.3	17.4
			25	0	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	21.0	21.0	1	16.3	16.4	16.5
			25	12	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	20.9	21.0	1	16.4	16.4	16.5
			25	24	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.9	21.0	21.0	1	16.3	16.4	16.5
			50	0	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.7	20.8	20.8	1	16.2	16.2	16.2
		16QAM	1	0	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	21.0	21.0	20.9	1	16.5	16.5	16.4
			1	24	1	16.9	17.0	17.0	1	16.7	16.7	16.7	1	20.8	20.9	21.0	1	16.2	16.3	16.5
			1	49	1	17.0	17.0	16.9	1	16.7	16.7	16.7	1	20.1	20.3	20.4	1	16.3	16.4	16.5
			25	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.8	19.9	2	15.4	15.4	15.4
			25	12	2	16.0	16.0	15.9	2	15.7	15.7	15.7	2	19.9	19.9	19.8	2	15.4	15.3	15.3
			25	24	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.9	19.8	2	15.4	15.3	15.3
			50	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.8	19.9	2	15.4	15.3	15.3

LTE Band 7 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz
LTE Band 7	5	QPSK	1	0	0	18.0	18.0	18.0	0	17.7	17.7	17.7	0	22.0	21.9	22.0	0	17.2	17.3	17.3
			1	12	0	18.0	18.0	18.0	0	17.7	17.7	17.7	0	21.9	22.0	22.0	0	17.2	17.3	17.4
			1	24	0	18.0	18.0	18.0	0	17.7	17.7	17.7	0	22.0	22.0	21.9	0	17.3	17.3	17.4
			12	0	1	17.0	17.0	17.0	1	16.7	16.6	16.7	1	21.0	20.6	20.6	1	16.4	16.1	16.1
			12	7	1	16.9	17.0	17.0	1	16.7	16.7	16.7	1	20.7	20.7	20.7	1	16.2	16.1	16.1
			12	13	1	17.0	17.0	17.0	1	16.7	16.7	16.6	1	20.7	20.7	20.6	1	16.1	16.1	16.1
			25	0	1	17.0	17.0	17.0	1	16.7	16.6	16.7	1	20.7	20.7	20.7	1	16.2	16.2	16.2
		16QAM	1	0	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.8	21.0	21.0	1	16.2	16.2	16.5
			1	12	1	17.0	17.0	17.0	1	16.6	16.6	16.7	1	21.0	21.0	21.0	1	16.4	16.3	16.5
			1	24	1	17.0	17.0	17.0	1	16.7	16.7	16.7	1	20.2	20.8	20.4	1	16.4	16.3	16.5
			12	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.9	19.8	2	15.3	15.4	15.3
			12	7	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.8	19.9	19.9	2	15.3	15.4	15.3
			12	13	2	16.0	16.0	16.0	2	15.7	15.6	15.7	2	19.8	19.9	19.9	2	15.3	15.4	15.4
			25	0	2	16.0	16.0	16.0	2	15.7	15.7	15.7	2	19.9	19.8	19.9	2	15.3	15.3	15.4

LTE Band 12 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz
LTE Band 12	10	QPSK	1	0	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	23.9	0	24.0	24.0	23.9
			1	24	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	49	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			25	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			25	12	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	22.8	23.0	1	23.0	22.8	23.0
			50	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
		16QAM	1	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	22.8	23.0	1	22.9	22.8	23.0
			1	49	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	22.8	23.0	1	22.9	22.8	23.0
			25	0	2	21.0	21.0	20.9	2	21.0	21.0	20.9	2	21.9	21.9	21.8	2	21.9	21.9	21.8
			25	12	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.9	21.8	2	21.9	21.9	21.8
			25	24	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.9	21.8	2	21.9	21.9	21.8
			50	0	2	21.0	21.0	20.9	2	21.0	21.0	20.9	2	21.9	21.9	21.9	2	21.9	21.9	21.9
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz
LTE Band 12	5	QPSK	1	0	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	23.9	24.0	23.9	0	23.9	24.0	23.9
			1	12	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	23.9	24.0	24.0	0	23.9	24.0	24.0
			1	24	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			12	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	7	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	13	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			25	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	22.9	23.0	1	22.9	22.9	23.0
		16QAM	1	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.8	23.0	23.0	1	22.8	23.0	23.0
			1	12	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	22.9	23.0	1	22.9	22.9	23.0
			12	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			12	7	2	20.9	21.0	21.0	2	20.9	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			12	13	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			25	0	2	21.0	21.0	20.9	2	21.0	21.0	20.9	2	21.9	21.9	21.8	2	21.9	21.9	21.8
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz
LTE Band 12	3	QPSK	1	0	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	23.9	24.0	23.9	0	23.9	24.0	23.9
			1	8	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	23.9	24.0	24.0	0	23.9	24.0	24.0
			1	14	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			8	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			8	4	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			8	7	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			15	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	22.9	23.0	1	22.9	22.9	23.0
		16QAM	1	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.8	23.0	22.9	1	22.8	23.0	22.9
			1	8	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	14	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			8	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			8	4	2	21.1	21.0	21.0	2	21.1	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			8	7	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.8	21.8	2	21.9	21.8	21.8
			15	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	21.9	21.9	21.8	2	21.9	21.9	21.8

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz
LTE Band 12	1.4	QPSK	1	0	0	22.9	23.0	22.9	0	22.9	23.0	22.9	0	24.0	23.8	23.9	0	24.0	23.8	23.9
			1	2	0	23.0	22.9	22.9	0	23.0	22.9	22.9	0	24.0	23.7	23.8	0	24.0	23.7	23.8
			1	5	0	22.8	22.8	22.8	0	22.8	22.8	22.8	0	23.9	23.8	23.8	0	23.9	23.8	23.8
			3	0	0	23.0	22.9	22.9	0	23.0	22.9	22.9	0	23.9	23.9	23.9	0	23.9	23.9	23.9
			3	1	0	22.9	23.0	22.9	0	22.9	23.0	22.9	0	24.0	23.8	23.8	0	24.0	23.8	23.8
			3	2	0	22.9	22.9	23.0	0	22.9	22.9	23.0	0	23.9	23.7	23.8	0	23.9	23.7	23.8
		16QAM	6	0	1	21.8	21.8	21.9	1	21.8	21.8	21.9	1	22.7	22.7	22.5	1	22.7	22.7	22.5
			1	0	1	21.9	21.8	22.0	1	21.9	21.8	22.0	1	22.9	22.8	22.8	1	22.9	22.8	22.8
			1	2	1	21.8	21.9	22.0	1	21.8	21.9	22.0	1	22.8	22.9	23.0	1	22.8	22.9	23.0
			1	5	1	21.8	22.0	21.9	1	21.8	22.0	21.9	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			3	0	1	22.0	22.0	21.8	1	22.0	22.0	21.8	1	23.0	23.0	22.8	1	23.0	23.0	22.8
			3	1	1	21.9	21.9	22.0	1	21.9	21.9	22.0	1	22.8	22.9	22.9	1	22.8	22.9	22.9
			3	2	1	22.0	22.0	21.8	1	22.0	22.0	21.8	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			6	0	2	21.0	20.9	20.9	2	21.0	20.9	20.9	2	21.7	21.8	21.6	2	21.7	21.8	21.6

LTE Band 13 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
							782 MHz				782 MHz				782 MHz				782 MHz	
LTE Band 13	10	QPSK	1	0	0		23.0		0		23.0		0		24.0		0		24.0	
			1	24	0		23.0		0		23.0		0		24.0		0		24.0	
			1	49	0		23.0		0		23.0		0		24.0		0		24.0	
			25	0	1		21.9		1		21.9		1		22.9		1		22.9	
			25	12	1		22.0		1		22.0		1		23.0		1		23.0	
			25	24	1		22.0		1		22.0		1		23.0		1		23.0	
			50	0	1		22.0		1		22.0		1		23.0		1		23.0	
		16QAM	1	0	1		21.9		1		21.9		1		23.0		1		23.0	
			1	24	1		21.9		1		21.9		1		22.9		1		22.9	
			1	49	1		21.9		1		21.9		1		23.0		1		23.0	
			25	0	2		21.0		2		21.0		2		22.0		2		22.0	
			25	12	2		21.0		2		21.0		2		22.0		2		22.0	
			25	24	2		21.0		2		21.0		2		21.9		2		21.9	
			50	0	2		21.0		2		21.0		2		22.0		2		22.0	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz
LTE Band 13	5	QPSK	1	0	0	22.9	23.0	23.0	0	22.9	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	12	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	24	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	23.9	0	24.0	24.0	23.9
			12	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	7	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	22.9	1	23.0	23.0	22.9
			12	13	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
		16QAM	25	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	0	1	22.0	22.0	21.9	1	22.0	22.0	21.9	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	12	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			12	0	2	21.0	20.9	21.0	2	21.0	20.9	21.0	2	21.9	22.0	22.0	2	21.9	22.0	22.0
			12	7	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			12	13	2	20.9	21.0	21.0	2	20.9	21.0	21.0	2	22.0	21.9	22.0	2	22.0	21.9	22.0
			25	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0

Note(s):

10/5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices

LTE Band 17 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						709 MHz	710 MHz	711 MHz		709 MHz	710 MHz	711 MHz		709 MHz	710 MHz	711 MHz		709 MHz	710 MHz	711 MHz
LTE Band 17	10	QPSK	1	0	0	23.0	22.9	23.0	0	23.0	22.9	23.0	0	24.0	24.0	23.8	0	24.0	24.0	23.8
			1	24	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	49	0	22.9	23.0	23.0	0	22.9	23.0	23.0	0	24.0	23.9	23.9	0	24.0	23.9	23.9
			25	0	1	22.0	21.9	22.0	1	22.0	21.9	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	12	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	23.0	1	22.9	23.0	23.0
			25	24	1	22.0	21.9	22.0	1	22.0	21.9	22.0	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			50	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
		16QAM	1	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	22.9	23.0	22.8	1	22.9	23.0	22.8
			1	49	1	22.0	21.9	22.0	1	22.0	21.9	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			25	12	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			25	24	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			50	0	2	20.9	21.0	21.0	2	20.9	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz
LTE Band 17	5	QPSK	1	0	0	23.0	23.0	22.9	0	23.0	23.0	22.9	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	12	0	22.9	23.0	23.0	0	22.9	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	24	0	23.0	23.0	23.0	0	23.0	23.0	23.0	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			12	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	7	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	13	1	22.0	21.9	22.0	1	22.0	21.9	22.0	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			25	0	1	22.0	21.9	22.0	1	22.0	21.9	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
		16QAM	1	0	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	12	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			1	24	1	22.0	22.0	22.0	1	22.0	22.0	22.0	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	0	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	21.9	2	22.0	22.0	21.9
			12	7	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			12	13	2	21.0	21.0	21.0	2	21.0	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			25	0	2	20.9	21.0	21.0	2	20.9	21.0	21.0	2	22.0	22.0	22.0	2	22.0	22.0	22.0

Note(s):

10/5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices

LTE Band 25 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz
LTE Band 25	20	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	49	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	24.0	24.0	24.0	0	18.5	18.5	18.5
			1	99	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.5
			50	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			50	24	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			50	49	1	17.5	17.5	17.5	1	20.4	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			100	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	1	0	1	17.5	17.5	17.7	1	20.5	20.4	20.5	1	23.0	23.0	23.0	1	17.7	17.5	17.5
			1	49	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	99	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			50	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			50	24	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			50	49	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.4
			100	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz
LTE Band 25	15	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	36	0	18.5	18.2	18.3	0	21.5	21.5	21.5	0	23.4	24.0	24.0	0	18.5	18.5	18.5
			1	74	0	18.5	18.5	18.5	0	21.4	21.5	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.4
			36	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			36	18	1	17.5	17.4	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			36	37	1	17.5	17.5	17.5	1	20.5	20.5	20.4	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	75	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	36	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	74	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			36	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			36	18	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.4	16.4	16.5
			36	37	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.4
			75	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz
LTE Band 25	10	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	24	0	18.5	18.2	18.3	0	21.5	21.5	21.5	0	24.0	24.0	23.4	0	18.5	18.5	18.5
			1	49	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.4
			25	0	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			25	12	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			25	24	1	17.5	17.5	17.5	1	20.4	20.5	20.4	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	50	0	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.4	17.5
			1	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.4	17.5	17.5
			1	24	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	49	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			25	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			25	12	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.4	16.4	16.5
			25	24	2	16.5	16.4	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.4
			50	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5

LTE Band 25 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz
LTE Band 25	5	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	12	0	18.5	18.2	18.3	0	21.5	21.5	21.5	0	24.0	24.0	24.0	0	18.5	18.5	18.5
			1	24	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.5
			12	0	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			12	7	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.4
			12	13	1	17.5	17.4	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			25	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	1	0	1	17.5	17.5	17.5	1	20.4	20.4	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	12	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	24	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			12	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			12	7	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.4	16.5	16.5
			12	13	2	16.5	16.4	16.4	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.4
			25	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz
LTE Band 25	3	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	8	0	18.5	18.2	18.3	0	21.5	21.5	21.5	0	23.9	24.0	24.0	0	18.5	18.4	18.5
			1	14	0	18.5	18.5	18.5	0	21.4	21.4	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.4
			8	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			8	4	1	17.5	17.4	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			8	7	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			15	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	1	0	1	17.5	17.5	17.5	1	20.5	20.4	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	8	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	14	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			8	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
			8	4	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.4	16.4	16.5
			8	7	2	16.5	16.4	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.4
			15	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz
LTE Band 25	1.4	QPSK	1	0	0	18.5	18.5	18.3	0	21.5	21.5	21.5	0	23.7	23.7	23.7	0	18.5	18.5	18.5
			1	3	0	18.5	18.5	18.3	0	21.5	21.4	21.5	0	23.9	24.0	24.0	0	18.5	18.5	18.5
			1	5	0	18.5	18.5	18.5	0	21.5	21.5	21.5	0	23.9	23.8	23.6	0	18.5	18.5	18.4
			3	0	0	18.5	18.5	18.5	0	21.5	21.5	21.4	0	23.7	23.9	23.8	0	18.4	18.4	18.5
			3	1	0	18.5	18.4	18.5	0	21.5	21.5	21.5	0	23.9	24.0	24.0	0	18.5	18.5	18.5
			3	3	0	18.5	18.4	18.5	0	21.4	21.5	21.5	0	23.9	23.9	23.6	0	18.5	18.5	18.4
			6	0	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
		16QAM	1	0	1	17.5	17.5	17.5	1	20.4	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	3	1	17.4	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			1	5	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			3	0	1	17.5	17.5	17.5	1	20.4	20.4	20.5	1	23.0	23.0	22.9	1	17.5	17.5	17.5
			3	1	1	17.5	17.5	17.4	1	20.5	20.5	20.5	1	23.0	22.9	23.0	1	17.5	17.5	17.4
			3	3	1	17.5	17.5	17.5	1	20.5	20.5	20.5	1	23.0	23.0	23.0	1	17.5	17.5	17.5
			6	0	2	16.5	16.5	16.5	2	19.5	19.5	19.5	2	22.0	22.0	22.0	2	16.5	16.5	16.5

LTE Band 26 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
							819 MHz				819 MHz				819 MHz				819 MHz	
LTE Band 26	10	QPSK	1	0	0		22.3		0		22.3		0		24.0		0		24.0	
			1	24	0		22.5		0		22.5		0		24.0		0		24.0	
			1	49	0		22.3		0		22.3		0		24.0		0		24.0	
			25	0	1		21.5		1		21.5		1		23.0		1		23.0	
			25	12	1		21.5		1		21.5		1		23.0		1		23.0	
			25	24	1		21.5		1		21.5		1		23.0		1		23.0	
			50	0	1		21.5		1		21.5		1		23.0		1		23.0	
		16QAM	1	0	1		21.5		1		21.5		1		23.0		1		23.0	
			1	24	1		21.5		1		21.5		1		23.0		1		23.0	
			1	49	1		21.5		1		21.5		1		23.0		1		23.0	
			25	0	2		20.5		2		20.5		2		22.0		2		22.0	
			25	12	2		20.5		2		20.5		2		22.0		2		22.0	
			25	24	2		20.5		2		20.5		2		22.0		2		22.0	
			50	0	2		20.5		2		20.5		2		22.0		2		22.0	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						816.5 MHz	819 MHz	821.5 MHz		816.5 MHz	819 MHz	821.5 MHz		816.5 MHz	819 MHz	821.5 MHz		816.5 MHz	819 MHz	821.5 MHz
LTE Band 26	5	QPSK	1	0	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	12	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	24	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			12	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	7	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	22.9	1	23.0	23.0	22.9
			12	13	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	22.9	23.0	1	23.0	22.9	23.0
			25	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
		16QAM	1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	12	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	24	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			12	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			12	7	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	22.0	21.9	2	21.9	22.0	21.9
			12	13	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			25	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						815.5 MHz	819 MHz	822.5 MHz		815.5 MHz	819 MHz	822.5 MHz		815.5 MHz	819 MHz	822.5 MHz		815.5 MHz	819 MHz	822.5 MHz
LTE Band 26	3	QPSK	1	0	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	8	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	14	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			8	0	1	21.5	21.4	21.5	1	21.5	21.4	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			8	4	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			8	7	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			15	0	1	21.4	21.5	21.5	1	21.4	21.5	21.5	1	23.0	22.9	23.0	1	23.0	22.9	23.0
		16QAM	1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	8	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	14	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			8	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	22.0	22.0	2	21.9	22.0	22.0
			8	4	2	20.4	20.4	20.5	2	20.4	20.4	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			8	7	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0
			15	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	21.9	22.0	22.0	2	21.9	22.0	22.0

LTE Band 26 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						814.7 MHz	819 MHz	823.3 MHz		814.7 MHz	819 MHz	823.3 MHz		814.7 MHz	819 MHz	823.3 MHz		814.7 MHz	819 MHz	823.3 MHz
LTE Band 26	1.4	QPSK	1	0	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	2	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	5	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	23.9	0	24.0	24.0	23.9
			3	0	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			3	1	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			3	2	0	22.5	22.5	22.5	0	22.5	22.5	22.5	0	24.0	24.0	24.0	0	24.0	24.0	24.0
		16QAM	6	0	1	21.4	21.5	21.5	1	21.4	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			1	2	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.9	23.0	22.8	1	22.9	23.0	22.8
			1	5	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			3	0	1	21.5	21.5	21.5	1	21.5	21.5	21.5	1	22.8	23.0	22.9	1	22.8	23.0	22.9
			3	1	1	21.5	21.5	21.4	1	21.5	21.5	21.4	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			3	2	1	21.4	21.5	21.5	1	21.4	21.5	21.5	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			6	0	2	20.5	20.5	20.5	2	20.5	20.5	20.5	2	22.0	22.0	22.0	2	22.0	22.0	22.0

LTE Band 27 Average Power (dBm) Measured Results

SAR for LTE Band 27 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

LTE Band 30 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
							2310 MHz				2310 MHz				2310 MHz				2310 MHz	
LTE Band 30	10	QPSK	1	0	0		16.5		0		18.9		0		23.0		0		20.5	
			1	24	0		16.5		0		19.0		0		23.0		0		20.5	
			1	49	0		16.5		0		18.9		0		23.0		0		20.5	
			25	0	1		15.4		1		18.0		1		22.0		1		19.4	
			25	12	1		15.5		1		18.0		1		22.0		1		19.5	
			25	24	1		15.4		1		17.9		1		22.0		1		19.5	
			50	0	1		15.5		1		18.0		1		22.0		1		19.5	
		16QAM	1	0	1		15.5		1		18.0		1		22.0		1		19.4	
			1	24	1		15.5		1		18.0		1		22.0		1		19.5	
			1	49	1		15.5		1		18.0		1		21.9		1		19.5	
			25	0	2		14.5		2		17.0		2		21.0		2		18.5	
			25	12	2		14.5		2		17.0		2		21.0		2		18.5	
			25	24	2		14.5		2		17.0		2		21.0		2		18.5	
			50	0	2		14.5		2		17.0		2		21.0		2		18.5	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz
LTE Band 30	5	QPSK	1	0	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	23.0	23.0	0	20.5	20.5	20.5
			1	12	0	16.5	16.4	16.5	0	19.0	18.8	19.0	0	23.0	23.0	23.0	0	20.5	20.5	20.5
			1	24	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	22.9	23.0	0	20.5	20.5	20.5
			12	0	1	15.5	15.4	15.5	1	18.0	17.7	18.0	1	22.0	21.9	22.0	1	19.4	19.4	19.4
			12	7	1	15.5	15.4	15.5	1	18.0	17.9	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			12	13	1	15.5	15.4	15.5	1	18.0	18.0	18.0	1	22.0	21.9	22.0	1	19.4	19.4	19.4
			25	0	1	15.5	15.4	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
		16QAM	1	0	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			1	12	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			1	24	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			12	0	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5
			12	7	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5
			12	13	2	14.5	14.5	14.5	2	17.0	16.9	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5
			25	0	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2306.5 MHz	2310 MHz	2313.5 MHz		2306.5 MHz	2310 MHz	2313.5 MHz		2306.5 MHz	2310 MHz	2313.5 MHz		2306.5 MHz	2310 MHz	2313.5 MHz
LTE Band 30	3	QPSK	1	0	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	23.0	23.0	0	20.5	20.5	20.5
			1	8	0	16.5	16.4	16.5	0	19.0	18.8	19.0	0	23.0	23.0	23.0	0	20.5	20.5	20.5
			1	14	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	23.0	23.0	0	20.5	20.5	20.5
			8	0	1	15.5	15.4	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.4	19.4	19.4
			8	4	1	15.5	15.4	15.5	1	18.0	17.9	18.0	1	22.0	22.0	22.0	1	19.5	19.4	19.5
			8	7	1	15.5	15.4	15.5	1	17.9	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.4	19.4
			15	0	1	15.5	15.4	15.5	1	18.0	18.0	18.0	1	22.0	21.9	22.0	1	19.5	19.5	19.5
		16QAM	1	0	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	21.9	22.0	1	19.5	19.5	19.5
			1	8	1	15.7	15.5	15.5	1	18.0	17.8	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			1	14	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	21.9	22.0	1	19.5	19.5	19.5
			8	0	2	14.5	14.5	14.5	2	16.9	16.9	17.0	2	21.0	20.9	21.0	2	18.5	18.4	18.4
			8	4	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	20.9	21.0	21.0	2	18.5	18.5	18.5
			8	7	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5
			15	0	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5

LTE Band 30 Average Power (dBm) Measured Results (continued)

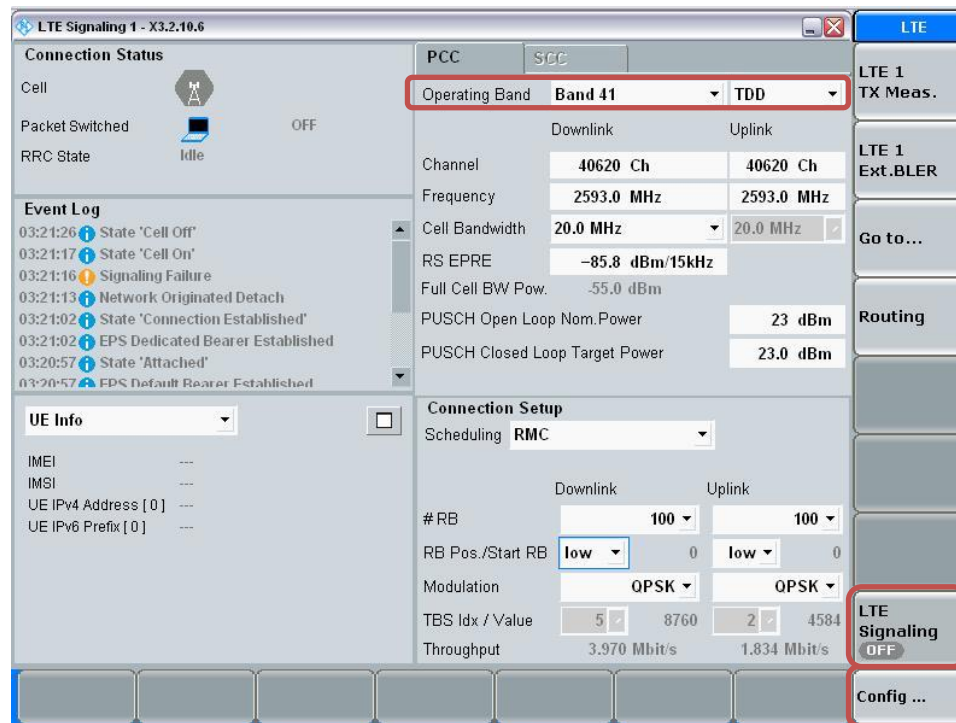
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						2305.7 MHz	2310 MHz	2314.3 MHz		2305.7 MHz	2310 MHz	2314.3 MHz		2305.7 MHz	2310 MHz	2314.3 MHz		2305.7 MHz	2310 MHz	2314.3 MHz
LTE Band 30	1.4	QPSK	1	0	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	23.0	23.0	0	20.4	20.4	20.4
			1	2	0	16.5	16.4	16.5	0	19.0	18.8	19.0	0	23.0	23.0	22.9	0	20.5	20.4	20.5
			1	5	0	16.5	16.5	16.5	0	19.0	18.9	19.0	0	23.0	23.0	22.8	0	20.5	20.5	20.5
			3	0	0	16.5	16.4	16.5	0	18.9	18.7	18.9	0	22.8	22.9	23.0	0	20.4	20.5	20.5
			3	1	0	16.5	16.4	16.5	0	18.9	18.9	18.9	0	22.8	22.9	23.0	0	20.5	20.5	20.5
			3	2	0	16.5	16.5	16.5	0	19.0	18.6	18.8	0	23.0	23.0	23.0	0	20.5	20.4	20.4
		16QAM	6	0	1	15.5	15.4	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			1	0	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.4
			1	2	1	15.4	15.5	15.5	1	18.0	18.0	17.9	1	21.8	21.9	22.0	1	19.4	19.5	19.5
			1	5	1	15.5	15.5	15.5	1	18.0	18.0	18.0	1	21.9	21.9	22.0	1	19.5	19.5	19.4
			3	0	1	15.5	15.5	15.5	1	17.9	18.0	17.9	1	22.0	22.0	21.8	1	19.4	19.4	19.5
			3	1	1	15.5	15.5	15.5	1	17.9	18.0	18.0	1	22.0	21.9	21.9	1	19.5	19.4	19.4
			3	2	1	15.6	15.5	15.5	1	18.0	18.0	18.0	1	22.0	22.0	22.0	1	19.5	19.5	19.5
			6	0	2	14.5	14.5	14.5	2	17.0	17.0	17.0	2	21.0	21.0	21.0	2	18.5	18.5	18.5

LTE Band 41 Average Power (dBm) Measured Results

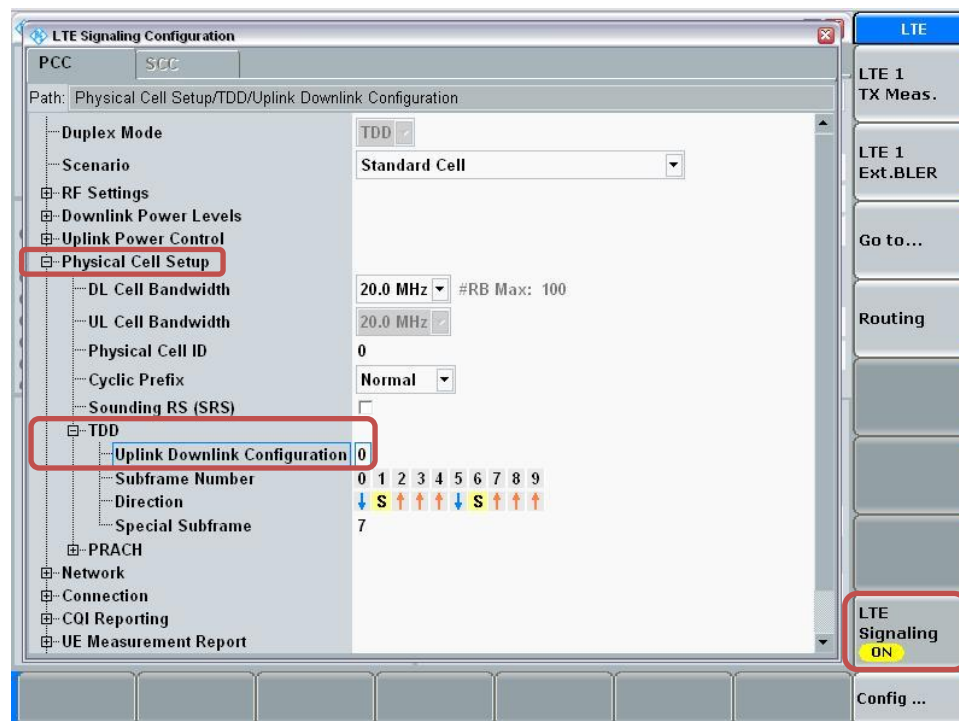
Procedure used to establish SAR test signal for LTE TDD Band 41

Set to CMW-500 with following parameters:

- Turn the LTE Signaling off using "ON | OFF" key
- Operating Band: Select Band 41 and TDD
- Go to "Config...."

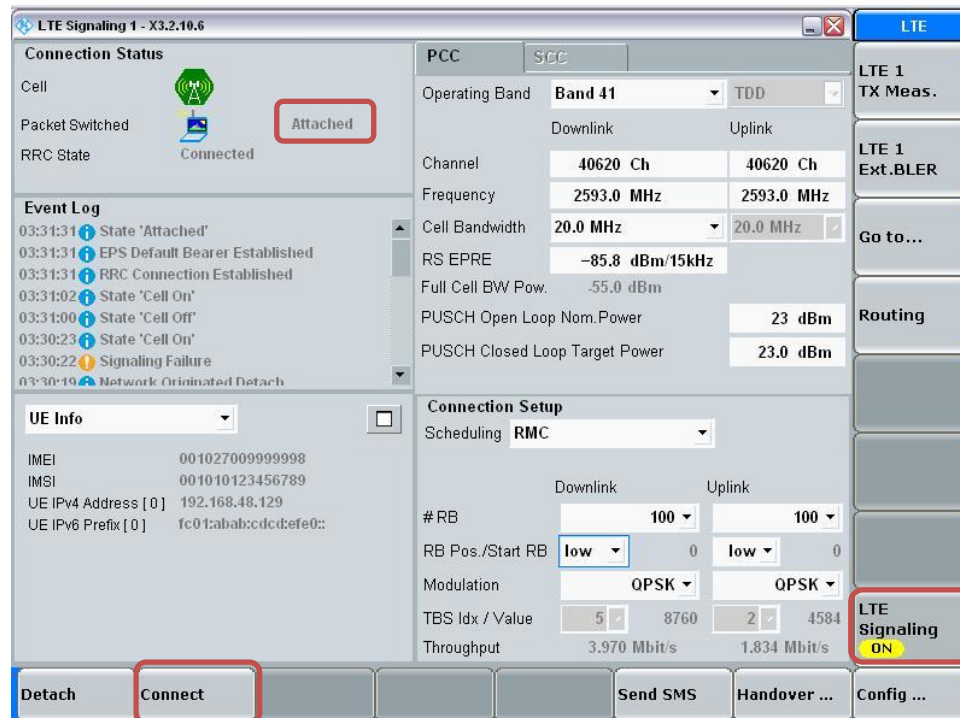


- Go to “Physical Cell Setup”
- Select “TDD” and Set “Uplink Downlink Configuration” to “0”
- Turn the cell on using “ON | OFF” key



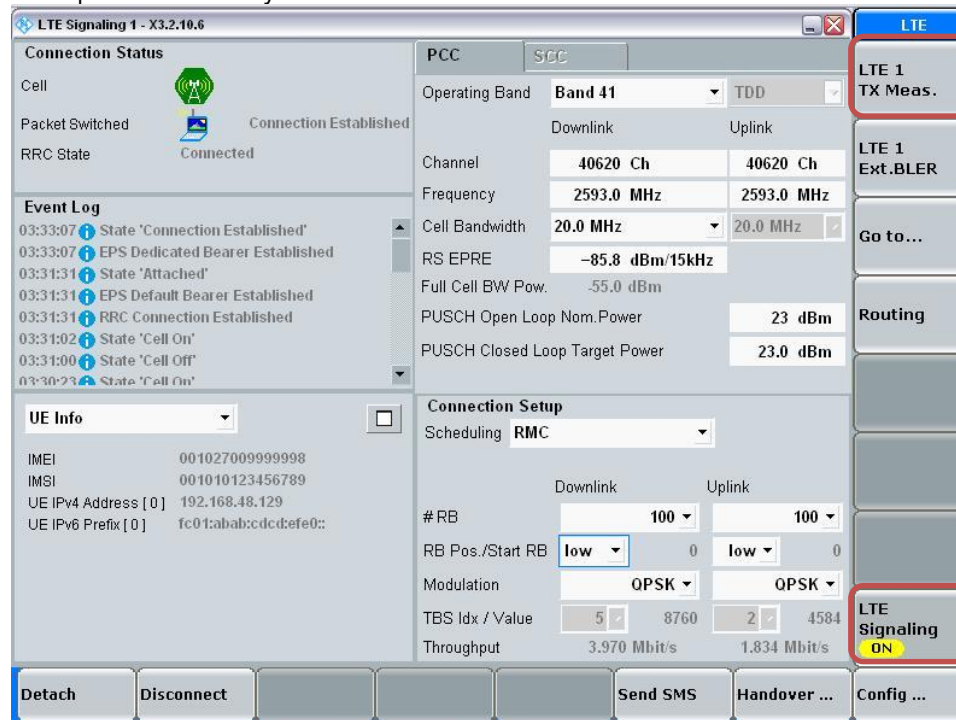
Connect to EUT

- Turn the cell on using “ON | OFF” key
- After EUT is Attached
- Select “Connect”

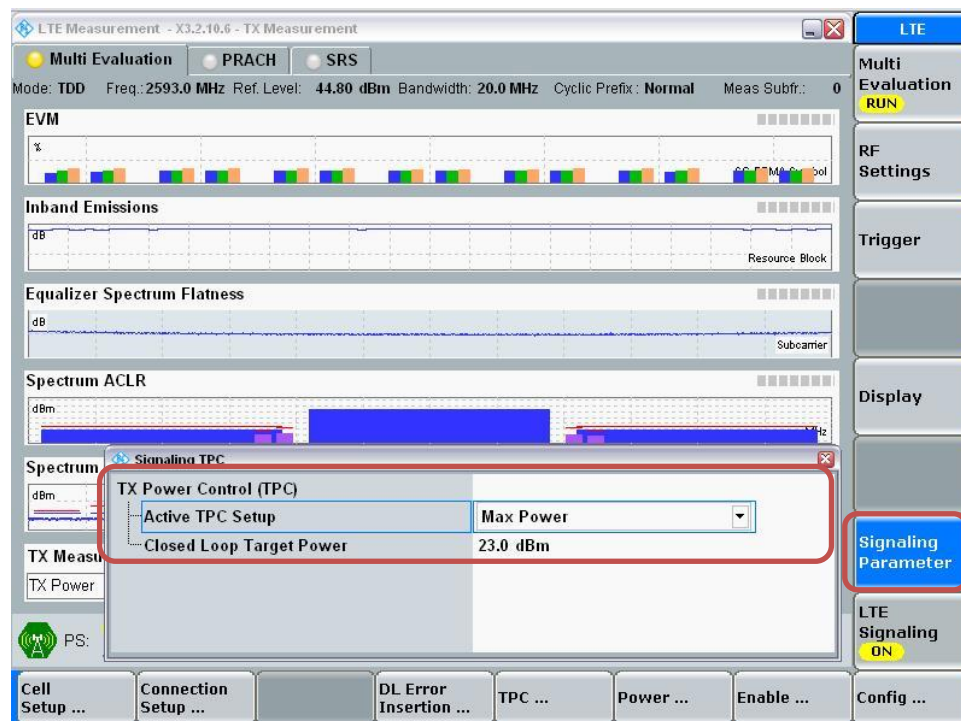


Max Power Setting

- Select "LTE 1 TX Meas."
- Press "RESTART | STOP" Soft key



- Select “Signaling Parameter”
- Select “TX Power Control (TPC)” > Select “Active TPC Setup” to “Max Power” > Set “Closed Loop Target Power” to “23 dBm”



View TX Power

- Go to “Display”
- Select “Select View...”
- Select “Spectrum Emission Mask”



Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD					Target MPR	UAT / BODY					Target MPR	LAT / HEAD					Target MPR	LAT / BODY					
						2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	
LTE Band 41	20	QPSK	1	0	0	19.2	19.4	19.6	19.6	19.6	0	21.0	21.0	21.0	21.2	21.3	0	22.3	22.0	22.3	22.4	22.2	0	18.5	18.5	18.5	18.5	18.5	
			1	49	0	19.7	19.7	19.7	19.7	19.7	19.7	0	21.5	21.5	21.5	21.5	21.5	0	22.5	22.5	22.5	22.5	22.5	0	18.5	18.5	18.5	18.5	18.5
			1	99	0	19.7	19.7	19.7	19.7	19.7	19.7	0	21.1	20.8	20.9	21.3	21.3	0	22.5	22.3	22.4	22.4	22.4	0	18.5	18.5	18.5	18.5	18.5
			50	0	1	18.8	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.4	17.5	17.5	17.5	17.5
			50	24	1	18.8	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			50	49	1	18.8	18.7	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			100	0	1	18.8	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
		16QAM	1	0	1	18.8	18.8	18.7	18.8	18.8	18.8	1	20.4	20.5	20.5	20.5	20.4	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			1	49	1	18.7	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.4	20.4	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			1	99	1	18.8	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			50	0	2	17.8	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			50	24	2	17.8	17.7	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			50	49	2	17.8	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			100	0	2	17.8	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD					Target MPR	UAT / BODY					Target MPR	LAT / HEAD					Target MPR	LAT / BODY					
						2503.5 MHz	2548.3 MHz	2593 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593 MHz	2637.8 MHz	2682.5 MHz	
LTE Band 41	15	QPSK	1	0	0	19.6	19.8	19.6																					

LTE Band 41 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD					Target MPR	UAT / BODY					Target MPR	LAT / HEAD					Target MPR	LAT / BODY				
						2498.5 MHz	2545.8 MHz	2593 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593 MHz	2640.3 MHz	2687.5 MHz
LTE Band 41	5	QPSK	1	0	0	19.6	19.6	19.8	19.8	19.8	0	21.5	21.5	21.4	21.5	21.5	0	22.3	22.2	22.3	22.4	22.2	0	18.5	18.5	18.5	18.5	18.5
			1	12	0	19.8	19.8	19.8	19.8	19.8	0	21.5	21.5	21.5	21.5	21.5	0	22.5	22.5	22.5	22.5	22.5	0	18.5	18.5	18.5	18.5	18.5
			1	24	0	19.8	19.8	19.8	19.8	19.8	0	21.5	21.5	21.4	21.5	21.5	0	22.5	22.3	22.4	22.4	22.4	0	18.5	18.5	18.5	18.4	18.5
			12	0	1	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			12	7	1	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			12	13	1	18.8	18.9	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
		16QAM	25	0	1	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			1	0	1	18.8	18.8	18.7	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			1	12	1	18.7	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.5	17.5	17.5
			1	24	1	18.8	18.8	18.8	18.8	18.8	1	20.5	20.5	20.5	20.5	20.5	1	21.5	21.5	21.5	21.5	21.5	1	17.5	17.5	17.4	17.5	17.5
			12	0	2	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			12	7	2	17.8	17.7	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			12	13	2	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5
			25	0	2	17.8	17.8	17.8	17.8	17.8	2	19.5	19.5	19.5	19.5	19.5	2	20.5	20.5	20.5	20.5	20.5	2	16.5	16.5	16.5	16.5	16.5

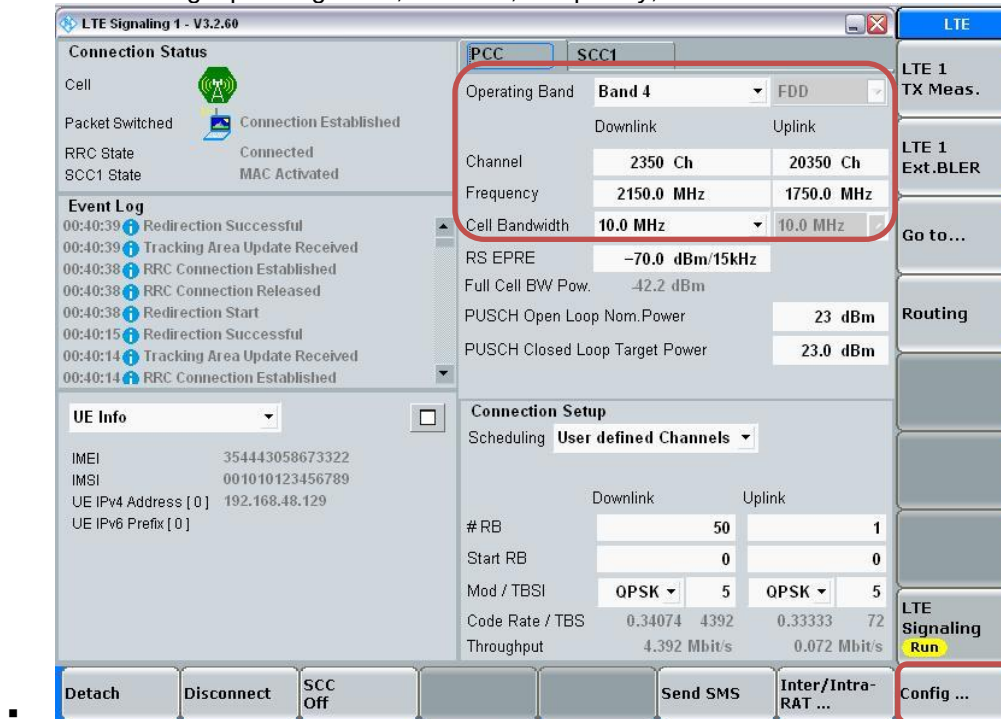
9.5. LTE Rel. 10 Carrier Aggregation

LTE Carrier Aggregation Test Signal Set-up Procedure

(Use normal LTE set-up procedure in addition with the following steps)

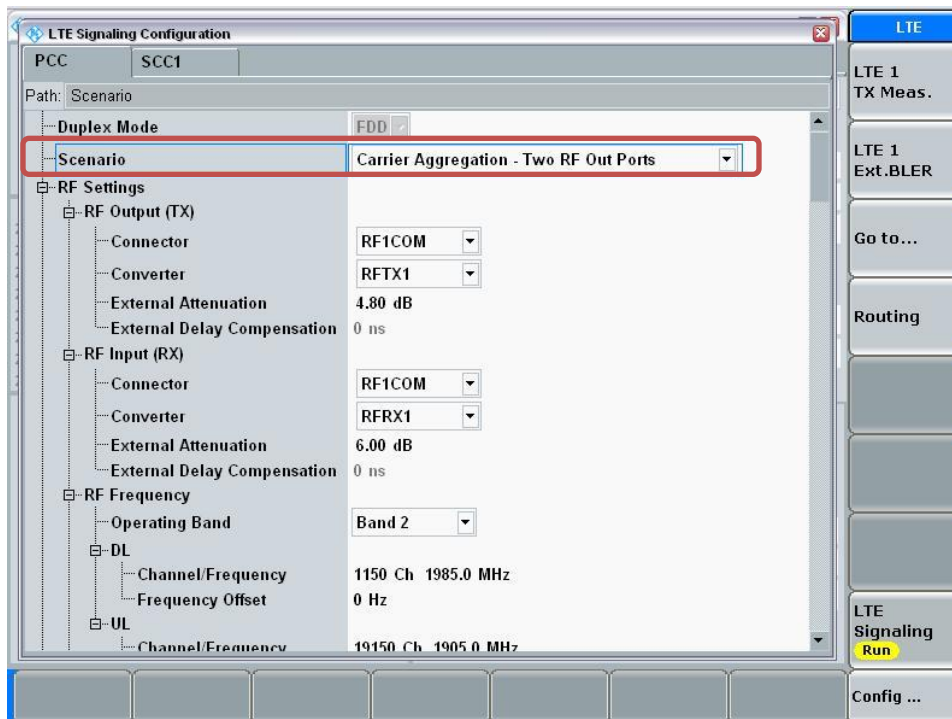
Set to CMW-500 with following parameters:

- PCC tab:
 - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth

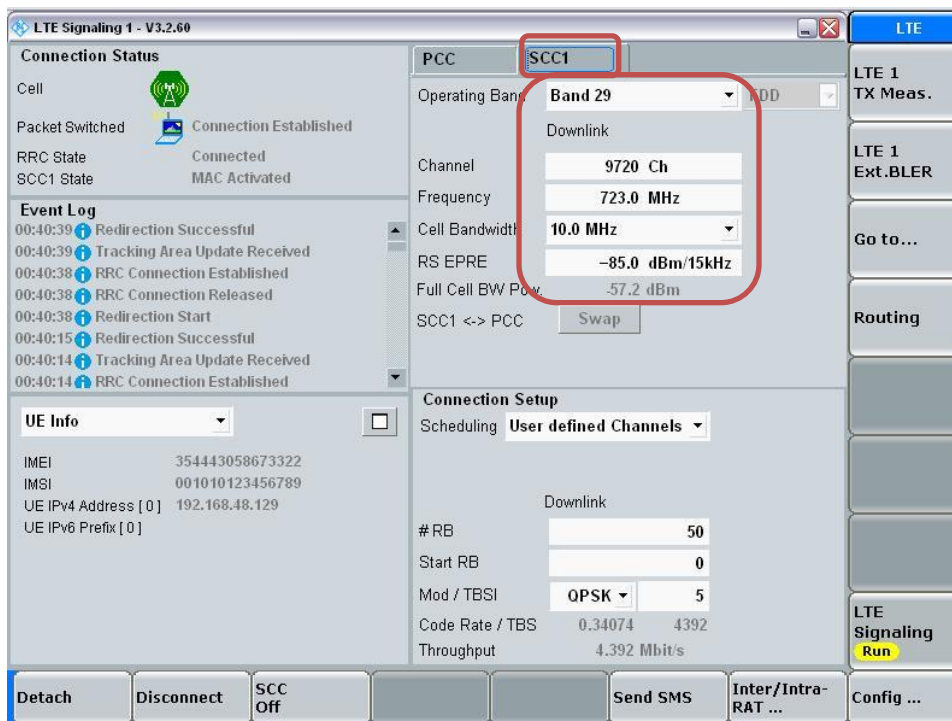


- Go to "Config...."

- Go to "Scenario"
- Select "Carrier Aggregation" and Set to "Carrier Aggregation – Two RF Out Ports"
- Select "LTE Signaling" button

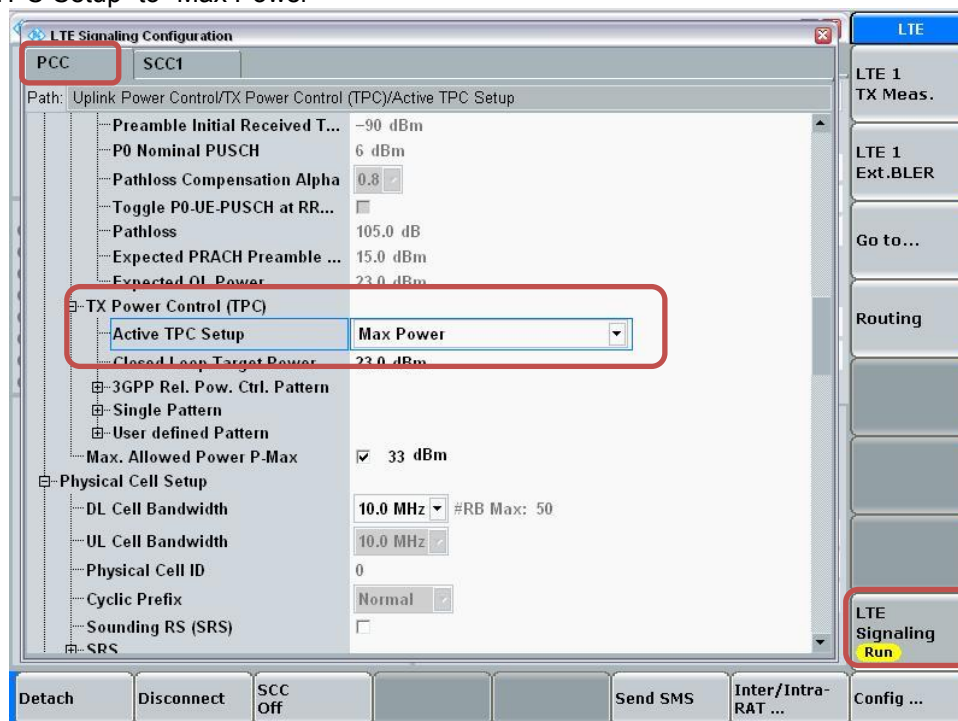


- Select "SCC1" tab
 - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth

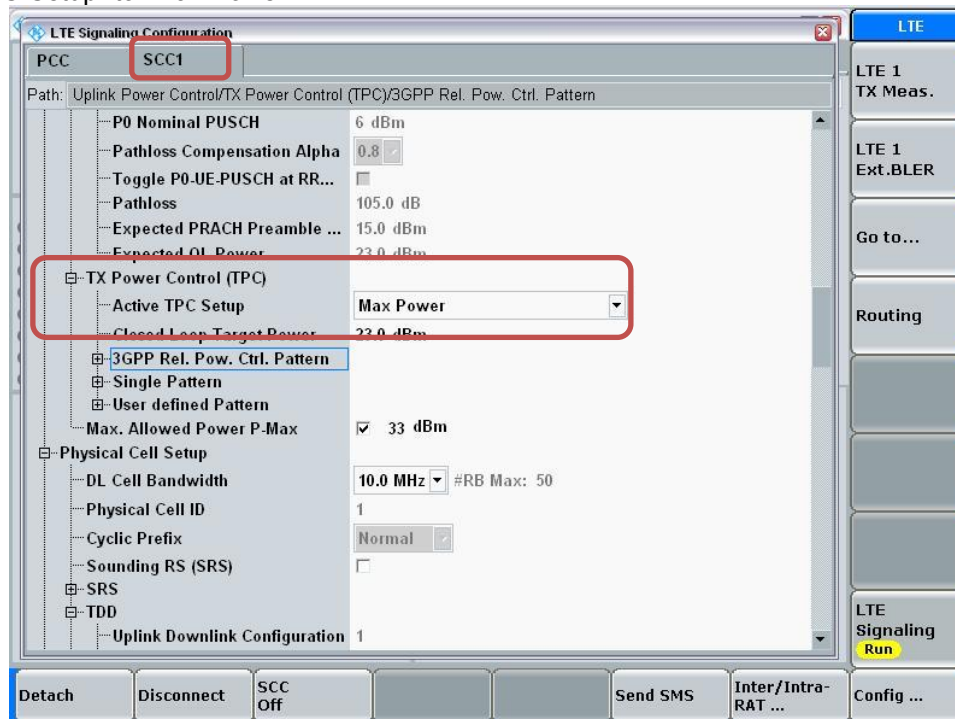


Max Power Setting

- Select “LTE Signaling” button
- Select PCC tab
- Set “Active TPC Setup” to “Max Power”



- Select SCC1 tab
- Set “Active TPC Setup” to “Max Power”



View TX Power

- Go to “Display”
- Select “Select View...”
- Select “Spectrum Emission Mask”



The device supports LTE Advanced Rel-10, Cat 6 and Carrier Aggregation (CA) on downlink only for Inter and Intra band. Uplink CA is not supported. Supported bands and bandwidths are provided in Tables 1 and 2.

Table 1

Inter-Band E-UTRA Carrier Aggregation Configurations							
Configuration	Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
CA_2A-4A(0)	2	Yes	Yes	Yes	Yes	Yes	Yes
	4			Yes	Yes	Yes	Yes
CA_2A-5A(0)	2			Yes	Yes	Yes	Yes
	5			Yes	Yes		
CA_2A-12A(1)	2			Yes	Yes	Yes	Yes
	12		Yes	Yes	Yes		
CA_2A-13A(0)	2			Yes	Yes	Yes	Yes
	13				Yes		
CA_2A-17A(0)	2			Yes	Yes		
	17			Yes	Yes		
CA_2A-29A(0)	2			Yes	Yes		
	29		Yes	Yes	Yes		
CA_2A-29A(1)	2			Yes	Yes		
	29			Yes	Yes		
CA_2A-29A(2)	2			Yes	Yes	Yes	Yes
	29			Yes	Yes		
CA_4A-5A(1)	4			Yes	Yes	Yes	Yes
	5			Yes	Yes		
CA_4A-7A(0)	4			Yes	Yes		
	7			Yes	Yes	Yes	Yes
CA_4A-12A(1)	4	Yes	Yes	Yes	Yes	Yes	Yes
	12			Yes	Yes		
CA_4A-13A(0)	4			Yes	Yes	Yes	Yes
	13				Yes		
CA_4A-17A(0)	4			Yes	Yes		
	17			Yes	Yes		
CA_4A-29A(0)	4			Yes	Yes		
	29		Yes	Yes	Yes		
CA_12A-30A(0)	12			Yes	Yes		
	30			Yes	Yes		

Table 6 provides the results for the combinations selected for measurement from Table 1. For all PCCs, UL power measurements were made for all supported DL bandwidths on the channel/RB combination resulting in the highest output power. For Band 2, UL power measurements were made for all PCC/SCC combinations. For the remaining PCC bands, UL power measurements were made for only one PCC/SCC combination. The exception is PCC Band 5. The FCC requested measurements for the Band 5/4 PCC/SCC combination.

For each LTE band, the maximum UL output power is capped in the cellular power table for all channel/bandwidth/RB combinations. Variations in output power measurements for a given band are dependent only upon bandwidth, resource block allocations, and measurement tolerances. Therefore, per KDB Publication 941225 D05A, Footnote 2, the maximum UL power with CA active is measured using the highest maximum output power configuration for uplink with downlink carrier aggregation inactive measured among the channel bandwidth, modulation and RB combinations in each frequency band.

Table 2

Intra-Band Non-Contiguous E-UTRA CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]
CA_2A-2A(0)	5, 10, 15, 20	5, 10, 15, 20
CA_4A-4A(0)	5, 10, 15, 20	5, 10, 15, 20
CA_7A-7A(0)	5	15
	10	10, 15
	15	15, 20
	20	20
CA_25A-25A(1)	5, 10, 15, 20	5, 10, 15, 20
Intra-Band Contiguous E-UTRA CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]
CA_7C(0)	10	20
	15	15, 20
	20	10, 15, 20
CA_41C(1)	5, 10	20
	15	15, 20
	20	5, 10, 15, 20

For intra-band CA, UL power measurements were made for each PCC/SCC combination with the widest bandwidth at the highest power level.

The high, middle, and low channels and frequencies for all inter-band and non-contiguous intra-band LTE Bands are provided in Table 3. Contiguous intra-band channels are provided in Tables 4 and 5.

Table 3

LTE Band 2	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	1940	700	1960	900	1980	1099	1860	18700	1880	18900	1900	19099
15	1937.5	675	1960	900	1982.5	1124	1857.5	18675	1880	18900	1902.5	19124
10	1935	650	1960	900	1985	1149	1855	18650	1880	18900	1905	19149
5	1932.5	625	1960	900	1987.5	1174	1852.5	18625	1880	18900	1907.5	19174
3	1931.5	615	1960	900	1988.5	1184	1851.5	18615	1880	18900	1908.5	19184
1.4	1930.7	607	1960	900	1989.3	1192	1850.7	18607	1880	18900	1909.3	19192
LTE Band 4	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	2120	2050	2132.5	2175	2145	2299	1720	20050	1732.5	20175	1745	20299
15	2117.5	2025	2132.5	2175	2147.5	2324	1717.5	20025	1732.5	20175	1747.5	20324
10	2115	2000	2132.5	2175	2150	2349	1715	20000	1732.5	20175	1750	20349
5	2112.5	1975	2132.5	2175	2152.5	2374	1712.5	19975	1732.5	20175	1752.5	20374
3	2111.5	1965	2132.5	2175	2153.5	2384	1711.5	19965	1732.5	20175	1753.5	20384
1.4	2110.7	1957	2132.5	2175	2154.3	2392	1710.7	19957	1732.5	20175	1754.3	20392
LTE Band 5	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	874	2450	881.5	2525	889	2599	829	20450	836.5	20525	844	20599
5	871.5	2425	881.5	2525	891.5	2624	826.5	20425	836.5	20525	846.5	20624
3	870.5	2415	881.5	2525	892.5	2634	825.5	20415	836.5	20525	847.5	20634
1.4	869.7	2407	881.5	2525	893.3	2642	824.7	20407	836.5	20525	848.3	20642
LTE Band 7	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	2630	2850	2655	3100	2680	3349	2510	20850	2535	21100	2560	21349
15	2627.5	2825	2655	3100	2682.5	3374	2507.5	20825	2535	21100	2562.5	21374
10	2625	2800	2655	3100	2685	3399	2505	20800	2535	21100	2565	21399
5	2622.5	2775	2655	3100	2687.5	3424	2502.5	20775	2535	21100	2567.5	21424
LTE Band 12	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	734	5060	737.5	5095	741	5129	704	23060	707.5	23095	711	23129
5	731.5	5035	737.5	5095	743.5	5154	701.5	23035	707.5	23095	713.5	23154

3	730.5	5025	737.5	5095	744.5	5164	700.5	23025	707.5	23095	714.5	23164
1.4	729.7	5017	737.5	5095	745.3	5172	699.7	23017	707.5	23095	715.3	23172
LTE Band 13	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	751	5230	751	5230	751	5230	782	23230	782	23230	782	23230
5	748.5	5205	751	5230	753.5	5254	779.5	23205	782	23230	784.5	23254
LTE Band 17	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	739	5780	740	5790	741	5799	709	23780	710	23790	711	23799
5	736.5	5755	740	5790	743.5	5824	706.5	23755	710	23790	713.5	23824
LTE Band 30	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	2355	9820	2355	9820	2355	9820	2310	27710	2310	27710	2310	27710
5	2352.5	9795	2355	9820	2357.5	9844	2307.5	27685	2310	27710	2312.5	27734
LTE Band 41 (FCC)	DL & UL Channel / Frequency											
Bandwidth	Low		Low-Mid		Mid		Mid-High		High			
20	2506	39750	2549.5	40185	2593	40620	2636.5	41055	2680	41490		
15	2503.5	39725	2548.3	40173	2593	40620	2547.8	41068	2682.5	41515		
10	2501	39700	2547.0	40160	2593	40620	2639	41080	2685	41540		
5	2498.5	39675	2545.8	40148	2593	40620	2640.3	41093	2687.5	41565		

Table 4

Band 41 Contiguous Channel and Frequency Combinations										
PCC Bandwidth	5					10				
	Low	Low-Mid	Mid	Mid-High	High	Low	Low-Mid	Mid	Mid-High	High
PCC Frequency	2498.5	2545.8	2593	2640.3	2687.5	2501	2547	2593	2639	2685
SCC Bandwidth	20	20	20	20	20	20	20	20	20	20
SCC Frequency	2512.75		2610.25		2673.25	2515.5		2610.25		2670.5
SCC Frequency								2575.75		

PCC Bandwidth	15									
	Low		Low-Mid		Mid		Mid-High		High	
PCC Frequency	2503.5		2548.3		2593		2547.8		2682.5	
SCC Bandwidth	15	20	15	20	15	20	15	20	15	20
SCC Frequency	2518.5	2520.75			2608	2610.25			2667.75	2665
SCC Frequency					2578	2575.5				

PCC Bandwidth	20											
	Low				Low-Mid				Mid			
PCC Frequency	2506				2549.5				2593			
SCC Bandwidth	5	10	15	20	5	10	15	20	5	10	15	20
SCC Frequency	2510	2520.5	2523.25	2526					2610.25	2607.5	2610.25	2613
SCC Frequency									2575.75	2578.5	2575.75	2573

PCC Bandwidth	20							
	Mid-High				High			
PCC Frequency	2636.5				2680			
SCC Bandwidth	5	10	15	20	5	10	15	20
SCC Frequency					2675.75	2665.5	2662.75	2660
SCC Frequency								

Table 5

Band 7 Contiguous Channel and Frequency Combinations									
PCC Bandwidth	10			15					
	Low	Mid	High	Low		Mid		High	
PCC Frequency	2625	2655	2685	2627.5		2655		2682.5	
SCC Bandwidth	20	20	20	15	20	15	20	15	20
SCC Frequency	2639.5	2672.25	2670.5	2642.5	2644.75	2670	2672.25	2667.75	2665
SCC Frequency		2637.75				2640	2637.75		
PCC Bandwidth	20								
	Low			Mid			High		
PCC Frequency	2630			2655			2680		
SCC Bandwidth	10	15	20	10	15	20	10	15	20
SCC Frequency	2644.5	2647.25	2650	2669.5	2672.25	2675	2665.5	2662.75	2660
SCC Frequency				2641	2645	2635			

Measurement results are provided in Table 6. Based upon the measurement results, uplink power is not affected by downlink CA and additional SAR measurements are not required.

Table 6

PCC Band	SCC Band	PCC BW	PCC DL Freq. MHz	SCC BW	SCC DL Freq. MHz	UL RBs	UL RB Start	UL Freq. MHz	Mod.	UL Power Standalone dBm	UL Power CA dBm	Delta dB
2	4	1.4	1930.7	20	2120	1	3	1850.7	QPSK	23.9	23.9	0
2	4	1.4	1960	20		1	3	1880	QPSK	23.9		
2	4	1.4	1989.3	20		1	3	1909.3	QPSK	23.9		
2	4	3	1931.5	20		1	8	1851.5	QPSK	23.9		
2	4	3	1960	20	2132.5	1	8	1880	QPSK	24.0	23.9	-0.1
2	4	3	1988.5	20		1	8	1908.5	QPSK	23.9		
2	4	5	1932.5	20		1	12	1852.5	QPSK	23.9		
2	4	5	1960	20	2132.5	1	12	1880	QPSK	24.0	23.9	-0.1
2	4	5	1987.5	20		1	12	1907.5	QPSK	24.0		
2	4	10	1935	20		1	24	1855	QPSK	23.9		
2	4	10	1960	20	2132.5	1	24	1880	QPSK	24.0	24.0	0
2	4	10	1985	20		1	24	1905	QPSK	24.0		
2	4	15	1937.5	20		1	36	1857.5	QPSK	23.9		
2	4	15	1960	20		1	36	1880	QPSK	23.9		
2	4	15	1982.5	20	2145	1	36	1902.5	QPSK	24.0	23.9	-0.1
2	4	20	1940	20	2120	1	49	1860	QPSK	24.0	24.0	0
2	4	20	1960	20		1	49	1880	QPSK	24.0		
2	4	20	1980	20		1	49	1900	QPSK	24.0		
2	5	5	1932.5	10		1	12	1852.5	QPSK	23.9		
2	5	5	1960	10	2132.5	1	12	1880	QPSK	24.0	23.9	-0.1
2	5	5	1987.5	10		1	12	1907.5	QPSK	24.0		
2	5	10	1935	10		1	24	1855	QPSK	23.9		

2	5	10	1960	10	881.5	1	24	1880	QPSK	24.0	23.9	-0.1
2	5	10	1985	10		1	24	1905	QPSK	24.0		
2	5	15	1937.5	10		1	36	1857.5	QPSK	23.9		
2	5	15	1960	10		1	36	1880	QPSK	23.9		
2	5	15	1982.5	10	889	1	36	1902.5	QPSK	24.0	23.9	-0.1
2	5	20	1940	10	874	1	49	1860	QPSK	24.0	24.0	0
2	5	20	1960	10		1	49	1880	QPSK	24.0		
2	5	20	1980	10		1	49	1900	QPSK	24.0		
2	12	10	1935	10		1	24	1855	QPSK	23.9		
2	12	10	1960	10	737.5	1	24	1880	QPSK	24.0	24.0	0
2	12	10	1985	10		1	24	1905	QPSK	24.0		
2	12	15	1937.5	10		1	36	1857.5	QPSK	23.9		
2	12	15	1960	10		1	36	1880	QPSK	23.9		
2	12	15	1982.5	10	741	1	36	1902.5	QPSK	24.0	23.9	-0.1
2	12	20	1940	10	734	1	49	1860	QPSK	24.0	23.9	-0.1
2	12	20	1960	10			49	1880	QPSK	24.0		
2	12	20	1980	10			49	1900	QPSK	24.0		
2	17	5	1932.5	10		1	12	1852.5	QPSK	23.9		
2	17	5	1960	10	740	1	12	1880	QPSK	24.0	24.0	0
2	17	5	1987.5	10		1	12	1907.5	QPSK	24.0		
2	17	10	1935	10		1	24	1855	QPSK	23.9		
2	17	10	1960	10	740	1	24	1880	QPSK	24.0	23.9	-0.1
2	17	10	1985	10		1	24	1905	QPSK	24.0		
2	29	5	1932.5	10		1	12	1852.5	QPSK	23.9		
2	29	5	1960	10	722.5	1	12	1880	QPSK	24.0	24.0	0
2	29	5	1987.5	10		1	12	1907.5	QPSK	24.0		
2	29	10	1935	10		1	24	1855	QPSK	23.9		
2	29	10	1960	10	722.5	1	24	1880	QPSK	24.0	23.9	-0.1

2	29	10	1985	10		1	24	1905	QPSK	24.0		
2	29	15	1937.5	10		1	36	1857.5	QPSK	23.9		
2	29	15	1960	10		1	36	1880	QPSK	23.9		
2	29	15	1982.5	10	723	1	36	1902.5	QPSK	24.0	23.9	-0.1
2	29	20	1940	10	722	1	49	1860	QPSK	24.0	24.0	0
2	29	20	1960	10		1	49	1880	QPSK	24.0		
2	29	20	1980	10		1	49	1900	QPSK	24.0		
4	2	5	2112.5	20	1940	1	12	1712.5	QPSK	23.9	23.8	-0.1
4	2	5	2132.5	20		1	12	1715	QPSK	23.7		
4	2	5	2152.5	20		1	12	1732.5	QPSK	23.7		
4	2	10	2115	20		1	24	1715	QPSK	23.8		
4	2	10	2132.5	20		1	24	1732.5	QPSK	23.9		
4	2	10	2150	20	1980	1	24	1750	QPSK	24.0	23.8	-0.2
4	2	15	2117.5	20	1940	1	36	1717.5	QPSK	24.0	23.9	-0.1
4	2	15	2132.5	20		1	36	1732.5	QPSK	23.9		
4	2	15	2147.5	20		1	36	1747.5	QPSK	24.0		
4	2	20	2120	20	1940	1	49	1720	QPSK	24.0	23.9	-0.1
4	2	20	2132.5	20		1	49	1732.5	QPSK	24.0		
4	2	20	2145	20		1	49	1745	QPSK	24.0		
5	2	5	871.5	20	1940	1	12	826.5	QPSK	24.0	24.0	0
5	2	5	881.5	20		1	12	836.5	QPSK	24.0		
5	2	5	891.5	20		1	12	846.5	QPSK	24.0		
5	2	10	874	20	1940	1	24	829	QPSK	24.0	24.0	0
5	2	10	881.5	20		1	24	836.5	QPSK	24.0		
5	2	10	889	20		1	24	844	QPSK	24.0		
5	4	5	871.5	20	2120	1	12	826.5	QPSK	24.0	24.0	0
5	4	5	881.5	20		1	12	836.5	QPSK	24.0		
5	4	5	891.5	20		1	12	846.5	QPSK	24.0		

5	4	10	874	20	2120	1	24	829	QPSK	24.0	23.9	-0.1
5	4	10	881.5	20		1	24	836.5	QPSK	24.0		
5	4	10	889	20		1	24	844	QPSK	24.0		
7	4	5	2622.5	10		1	12	2502.5	QPSK	21.9		
7	4	5	2655	10	2132.5	1	12	2535	QPSK	22.0	21.9	-0.1
7	4	5	2687.5	10		1	12	2567.5	QPSK	22.0		
7	4	10	2625	10		1	24	2505	QPSK	21.9		
7	4	10	2655	10	2132.5	1	24	2535	QPSK	22.0	22.0	0
7	4	10	2685	10		1	24	2565	QPSK	22.0		
7	4	15	2627.5	10		1	36	2507.5	QPSK	21.9		
7	4	15	2655	10	2132.5	1	36	2535	QPSK	22.0	21.9	-0.1
7	4	15	2682.5	10		1	36	2562.5	QPSK	22.0		
7	4	20	2630	10	2115	1	49	2510	QPSK	22.0	22.0	0
7	4	20	2655	10		1	49	2534	QPSK	22.0		
7	4	20	2680	10		1	49	2540	QPSK	22.0		
12	2	3	730.5	20		1	8	700.5	QPSK	23.9		
12	2	3	737.5	20	1960	1	8	707.5	QPSK	24.0	23.9	-0.1
12	2	3	744.5	20		1	8	714.5	QPSK	24.0		
12	2	5	731.5	20		1	12	701.5	QPSK	23.9		
12	2	5	737.5	20	1960	1	12	707.5	QPSK	24.0	23.9	-0.1
12	2	5	743.5	20		1	12	713.5	QPSK	24.0		
12	2	10	734	20	1940	1	24	704	QPSK	24.0	24.0	0
12	2	10	737.5	20		1	24	707.5	QPSK	24.0		
12	2	10	741	20		1	24	711	QPSK	24.0		
13	2	10	751	20	1960	1	24	782	QPSK	24.0	24.0	0
17	2	5	736.5	10	1935	1	12	709	QPSK	24.0	24.0	0
17	2	5	740	10		1	12	710	QPSK	24.0		
17	2	5	743.5	10		1	12	711	QPSK	24.0		

17	2	10	739	10	1935	1	24	709	QPSK	24.0	23.9	-0.1
17	2	10	740	10		1	24	710	QPSK	24.0		
17	2	10	741	10		1	24	711	QPSK	24.0		
30	12	5	2352.5	10	734	1	12	2307.5	QPSK	23.0	23.0	0
30	12	5	2355	10		1	12	2310	QPSK	23.0		
30	12	5	2357.5	10		1	12	2312.5	QPSK	23.0		
30	12	10	2355	10	737.5	1	24	2310	QPSK	23.0	23.0	0
2	2	20	1940	20	1940	1	49	1860	QPSK	24.0	24.0	0
2	2	20	1960	20		1	49	1880	QPSK	24.0		
2	2	20	1980	20		1	49	1900	QPSK	24.0		
4	4	20	2120	20	2120	1	49	1720	QPSK	24.0	24.0	0
4	4	20	2132.5	20		1	49	1732.5	QPSK	24.0		
4	4	20	2145	20		1	49	1745	QPSK	24.0		
7	7	20	2630	20	2630	1	49	2510	QPSK	22.0	21.9	-0.1
7	7	20	2655	20		1	49	2534	QPSK	22.0		
7	7	20	2680	20		1	49	2540	QPSK	22.0		
25	25	20	1940	20	1940	1	49	1940	QPSK	24.0	24.0	0
25	25	20	1962.5	20		1	49	1962.5	QPSK	24.0		
25	25	20	1985	20		1	49	1985	QPSK	24.0		
41	41	20	2506	20	2506	1	49	2506	QPSK	22.5	22.4	-0.1
41	41	20	2549.5	20		1	49	2549.5	QPSK	22.5		
41	41	20	2593	20		1	49	2593	QPSK	22.5		
41	41	20	2636.5	20		1	49	2636.5	QPSK	22.5		
41	41	20	2680	20		1	49	2680	QPSK	22.5		

9.6. Wi-Fi 2.4GHz (DTS Band)

For 2.4 GHz band, there are two use cases:

- P_{Cell_ON} : This will be used when both Cellular and Wi-Fi radios are ON.
- P_{Cell_OFF} : This will be used when only Wi-Fi radio is ON

9.6.1. P_{Cell_ON}

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
2.4	802.11b	1 Tx	1	2412	14.5	15.5	18.5	14.0
			6	2437	14.5	15.5	18.5	14.0
			11	2462	14.5	15.5	18.5	14.0
			12	2467	14.5	15.5	18.0	14.0
			13	2472	14.5	15.0	15.0	14.0
	802.11g	2 Tx CDD	1	2412	14.5		15.5	
			2	2417	14.5		17.0	
			3	2422	14.5		18.5	
			6	2437	14.5		18.5	
			9	2452	14.5		18.5	
			10	2457	14.5		15.5	
			11	2462	14.5		14.5	
			12	2467	12.0		12.0	
			13	2472	3.0		3.0	
			1	2412		15.5		14.0
			2	2417		15.5		14.0
			3	2422		15.5		14.0
			6	2437		15.5		14.0
			9	2452		15.5		14.0
			10	2457		15.5		14.0
			11	2462		14.5		14.0
			12	2467		12.0		12.0
			13	2472		3.0		3.0

9.6.2. P_{Cell_OFF}**Measured Results**

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
2.4	802.11b	1 Tx	1	2412	18.5	18.5	18.5	18.5
			6	2437	18.5	18.5	18.5	18.5
			11	2462	18.5	18.5	18.5	18.5
			12	2467	18.0	18.0	18.0	18.0
			13	2472	15.0	15.0	15.0	15.0
	802.11g	2 Tx CDD	1	2412	15.5		15.5	
			2	2417	17.0		17.0	
			3	2422	18.5		18.5	
			6	2437	18.5		18.5	
			9	2452	18.5		18.5	
			10	2457	15.5		15.5	
			11	2462	14.5		14.5	
			12	2467	12.0		12.0	
			13	2472	3.0		3.0	
			1	2412		15.5		15.5
			2	2417		17.0		17.0
			3	2422		18.5		18.5
			6	2437		18.5		18.5
			9	2452		18.5		18.5
			10	2457		15.5		15.5
			11	2462		14.5		14.5
			12	2467		12.0		12.0
			13	2472		3.0		3.0

9.7. Wi-Fi 5GHz (U-NII Bands)

For 5 GHz band, there are two use cases:

- P_{Cell_ON} : This will be used when both Cellular and Wi-Fi radios are ON.
- P_{Cell_OFF} : This will be used when only Wi-Fi radio is ON

9.7.1. P_{Cell_ON}

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.2	802.11ac	1 Tx VHT80	42	5210	Not Required	Not Required	Not Required	11.0
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.3	802.11a	1 Tx	52	5260	Not Required	Not Required	19.5	Not Required
			56	5280			19.5	
			60	5300			19.5	
			64	5320			16.0	
	802.11n	2 Tx HT40 CDD	54	5270	10.0		18.0	
			62	5310	10.0		14.5	
			54	5270		14.3		10.5
			62	5310		14.3		10.5
	802.11ac	1 Tx VHT80	58	5290	10.0	14.3	Not Required	Not Required
	Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)		
UAT						LAT		
HEAD						BODY	HEAD	BODY
5.5	802.11ac	1 Tx VHT80	106	5530	10.5	14.0	14.0	10.5
			122	5610	10.5	15.1	17.0	10.5
			138	5690	10.5	15.1	18.5	10.5
5.5	802.11ac	2 Tx VHT80 CDD	106	5530	10.5		14.0	
			122	5610	10.5		16.0	
			138	5690	10.5		18.5	
			106	5530		14.0		10.5
			122	5610		15.1		10.5
			138	5690		15.1		10.5

Measured Results (continued)

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.8	802.11a	1 Tx	149	5745	Not Required	Not Required	16.0	Not Required
			153	5765			19.5	
			157	5785			19.5	
			161	5805			19.5	
			165	5825			17.0	
		2 Tx CDD	149	5745	10.0		16.0	
			153	5765	10.0		19.5	
			157	5785	10.0		19.5	
			161	5805	10.0		19.5	
			165	5825	10.0		17.0	
			149	5745		16.0		10.5
			153	5765		17.2		10.5
			157	5785		17.2		10.5
			161	5805		17.2		10.5
			165	5825		17.0		10.5
	802.11n	1 Tx HT40	151	5755	Not Required	15.0	Not Required	Not Required
			159	5795		17.2		
	802.11ac	1 Tx VHT80	155	5775	10.0	Not Required	Not Required	10.5

9.7.2. P_{Cell_OFF}**Measured Results**

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.2	802.11a	1 Tx	36	5180	Not Required	Not Required	Not Required	16.0
			40	5200				17.8
			44	5220				17.8
			48	5240				17.8
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.3	802.11a	1 Tx	52	5260	Not Required	18.5	19.5	Not Required
			56	5280		18.5	19.5	
			60	5300		18.5	19.5	
			64	5320		16.0	16.0	
	802.11n	2 Tx HT40 CDD	54	5270	14.0		18.0	
			62	5310	14.0		14.5	
			54	5270		18.0		17.3
			62	5310		14.5		14.5
	802.11ac	1 Tx VHT80	58	5290	14.0	Not Required	Not Required	Not Required
	Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Pow er (dBm)		
UAT						LAT		
HEAD						BODY	HEAD	BODY
5.5	802.11a	1 Tx	100	5500	Not Required	Not Required	16.0	Not Required
			104	5520			19.5	
			108	5540			19.5	
			112	5560			19.5	
			116	5580			19.5	
			120	5600			19.5	
			124	5620			19.5	
			128	5640			19.5	
			132	5660			19.5	
			136	5680			19.5	
			140	5700			15.5	
			144	5720			19.5	
	802.11ac	1 Tx VHT80	106	5530	14.0	14.0	Not Required	14.0
			122	5610	14.5	17.0		17.0
			138	5690	14.5	18.5		17.3
		2 Tx VHT80 CDD	106	5530	14.0		14.0	
			122	5610	14.5		16.0	
			138	5690	14.5		19.0	
			106	5530		14.0		14.0
			122	5610		16.0		16.0
			138	5690		18.5		17.3

Measured Results (continued)

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					UAT		LAT	
					HEAD	BODY	HEAD	BODY
5.8	802.11a	1 Tx	149	5745	Not Required	16.0	16.0	Not Required
			153	5765		19.0	19.5	
			157	5785		19.0	19.5	
			161	5805		19.0	19.5	
			165	5825		17.0	17.0	
		2 Tx CDD	149	5745	14.0		16.0	
			153	5765	14.0		19.5	
			157	5785	14.0		19.5	
			161	5805	14.0		19.5	
			165	5825	14.0		17.0	
			149	5745		16.0		16.0
			153	5765		19.0		17.3
			157	5785		19.0		17.3
			161	5805		19.0		17.3
			165	5825		17.0		17.0
	802.11n	1 Tx HT40	151	5755	Not Required	Not Required	Not Required	15.0
			159	5795				17.3
	802.11ac	1 Tx VHT80	155	5775	14.0	Not Required	Not Required	Not Required

9.8. Bluetooth

 P_{Low}

Band (GHz)	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)
2.4	V3.0 + EDR, GFSK	0	2402	10.5
		39	2441	10.5
		78	2480	10.5

 P_{Max}

Band (GHz)	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)
2.4	V3.0 + EDR, GFSK	0	2402	16.3
		39	2441	16.5
		78	2480	16.3

10. Measured and Reported (Scaled) SAR Results

Model A1633 was set as the primary model for testing.

SAR Test Reduction criteria are as follows:

KDB 447498 D01 General RF Exposure Guidance:

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
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among 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 for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

KDB 248227 D01 SAR meas for 802.11 v02r01:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the reported SAR for the initial test position is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.

- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
 - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.
 - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the initial test position, Area Scans were performed to determine the position with the *Maximum Value of SAR (measured)*. The position that produced the highest *Maximum Value of SAR* is considered the worst case position; thus used as the initial test position.

10.1. GSM850**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Voice	0	Left Touch	190	836.6	31.5	31.5	0.679	0.679	0.455	0.455	
			Left Tilt	190	836.6	31.5	31.5	0.366	0.366	0.227	0.227	
			Right Touch	190	836.6	31.5	31.5	0.545	0.545	0.353	0.353	
			Right Tilt	190	836.6	31.5	31.5	0.338	0.338	0.199	0.199	
Head VoIP	GPRS 2 Slots	0	Left Touch	190	836.6	30.5	30.5	0.737	0.737	0.499	0.499	1
			Left Tilt	190	836.6	30.5	30.5	0.456	0.456	0.275	0.275	
			Right Touch	190	836.6	30.5	30.5	0.682	0.682	0.445	0.445	
			Right Tilt	190	836.6	30.5	30.5	0.389	0.389	0.230	0.230	
Body-worn	Voice	5	Rear	190	836.6	31.5	31.5	0.261	0.261	0.170	0.170	
			Front	190	836.6	31.5	31.5	0.262	0.262	0.167	0.167	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	190	836.6	30.5	30.5	0.506	0.506	0.328	0.328	
Front			190	836.6	30.5	30.5	0.503	0.503	0.320	0.320		
Hotspot			Edge 1	190	836.6	30.5	30.5	0.201	0.201	0.091	0.091	
			Edge 2	190	836.6	30.5	30.5	0.644	0.644	0.425	0.425	
			Edge 4	190	836.6	30.5	30.5	0.467	0.467	0.307	0.307	

LAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Voice	0	Left Touch	190	836.6	33.5	33.5	0.318	0.318	0.245	0.245	
			Left Tilt	190	836.6	33.5	33.5	0.202	0.202	0.155	0.155	
			Right Touch	190	836.6	33.5	33.5	0.278	0.278	0.211	0.211	
			Right Tilt	190	836.6	33.5	33.5	0.214	0.214	0.165	0.165	
Head VoIP	GPRS 2 Slots	0	Left Touch	190	836.6	32.5	32.5	0.650	0.650	0.499	0.499	
			Left Tilt	190	836.6	32.5	32.5	0.421	0.421	0.324	0.324	
			Right Touch	190	836.6	32.5	32.5	0.555	0.555	0.422	0.422	
			Right Tilt	190	836.6	32.5	32.5	0.446	0.446	0.343	0.343	
Body-worn	Voice	5	Rear	190	836.6	32.5	32.5	0.478	0.478	0.294	0.294	
			Front	190	836.6	32.5	32.5	0.510	0.510	0.288	0.288	2
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	128	824.2	32.5	32.5	0.722	0.722	0.433	0.433	
				190	836.6	32.5	32.5	0.878	0.878	0.513	0.513	
				251	848.8	32.5	32.5	0.950	0.950	0.536	0.536	
			Front	128	824.2	32.5	32.5	0.833	0.833	0.471	0.471	
				190	836.6	32.5	32.5	0.964	0.964	0.535	0.535	
				251	848.8	32.5	32.5	1.060	1.060	0.584	0.584	3
Hotspot			Edge 2	190	836.6	32.5	32.5	0.787	0.787	0.456	0.456	
			Edge 3	190	836.6	32.5	32.5	0.761	0.761	0.366	0.366	
			Edge 4	128	824.2	32.5	32.5	0.829	0.829	0.549	0.549	
				190	836.6	32.5	32.5	0.836	0.836	0.551	0.551	
				251	848.8	32.5	32.5	0.885	0.885	0.581	0.581	

10.2. GSM1900**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Voice	0	Left Touch	661	1880.0	25.6	25.6	0.161	0.161	0.085	0.085	
			Left Tilt	661	1880.0	25.6	25.6	0.133	0.133	0.068	0.068	
			Right Touch	661	1880.0	25.6	25.6	0.402	0.402	0.217	0.217	
			Right Tilt	661	1880.0	25.6	25.6	0.317	0.317	0.147	0.147	
Head VoIP	GPRS 2 Slots	0	Left Touch	661	1880.0	22.6	22.6	0.277	0.277	0.142	0.142	
			Left Tilt	661	1880.0	22.6	22.6	0.299	0.299	0.150	0.150	
			Right Touch	512	1850.2	22.6	22.6	0.828	0.828	0.437	0.437	
				661	1880.0	22.6	22.6	0.815	0.815	0.425	0.425	
				810	1909.8	22.6	22.6	0.838	0.838	0.439	0.439	
			Right Tilt	661	1880.0	22.6	22.6	0.692	0.692	0.324	0.324	
Body-worn	Voice	5	Rear	661	1880.0	27.5	27.5	0.492	0.492	0.247	0.247	
			Front	661	1880.0	27.5	27.5	0.491	0.491	0.231	0.231	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	512	1850.2	25.1	25.1	0.813	0.813	0.410	0.410	
				661	1880.0	25.1	25.1	0.813	0.813	0.409	0.409	
				810	1909.8	25.1	25.1	0.834	0.834	0.408	0.408	
			Front	512	1850.2	25.1	25.1	0.832	0.832	0.388	0.388	
				661	1880.0	25.1	25.1	0.812	0.812	0.375	0.375	
				810	1909.8	25.1	25.1	0.872	0.872	0.401	0.401	
Hotspot			Edge 1	661	1880.0	25.1	25.1	0.493	0.493	0.214	0.214	
			Edge 2	661	1880.0	25.1	25.1	0.030	0.030	0.015	0.015	
			Edge 4	661	1880.0	25.1	25.1	0.342	0.342	0.185	0.185	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Voice	0	Left Touch	661	1880.0	30.5	30.5	0.275	0.275	0.177	0.177	
			Left Tilt	661	1880.0	30.5	30.5	0.192	0.192	0.113	0.113	
			Right Touch	661	1880.0	30.5	30.5	0.478	0.478	0.295	0.295	
			Right Tilt	661	1880.0	30.5	30.5	0.150	0.150	0.098	0.098	
Head VoIP	GPRS 2 Slots	0	Left Touch	661	1880.0	29.5	29.5	0.480	0.480	0.316	0.316	
			Left Tilt	661	1880.0	29.5	29.5	0.340	0.340	0.203	0.203	
			Right Touch	512	1850.2	29.5	29.5	0.983	0.983	0.613	0.613	4
				661	1880.0	29.5	29.5	0.961	0.961	0.595	0.595	
				810	1909.8	29.5	29.5	0.929	0.929	0.572	0.572	
			Right Tilt	661	1880.0	29.5	29.5	0.284	0.284	0.188	0.188	
Body-worn	Voice	5	Rear	512	1850.2	27.7	27.7	0.932	0.932	0.452	0.452	
				661	1880.0	27.7	27.7	0.888	0.888	0.427	0.427	
				810	1909.8	27.7	27.7	0.842	0.842	0.402	0.402	
			Front	512	1850.2	27.7	27.7	0.919	0.919	0.442	0.442	
				661	1880.0	27.7	27.7	0.838	0.838	0.399	0.399	
				810	1909.8	27.7	27.7	0.802	0.802	0.379	0.379	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	512	1850.2	24.7	24.2	0.887	0.995	0.434	0.487	5
				661	1880.0	24.7	24.2	0.854	0.958	0.413	0.463	
				810	1909.8	24.7	24.2	0.820	0.920	0.393	0.441	
			Front	512	1850.2	24.7	24.2	0.880	0.987	0.431	0.484	
				661	1880.0	24.7	24.2	0.817	0.917	0.395	0.443	
				810	1909.8	24.7	24.2	0.836	0.938	0.403	0.452	
Hotspot			Edge 2	661	1880.0	24.7	24.2	0.475	0.533	0.259	0.291	
			Edge 3	512	1850.2	24.7	24.2	0.878	0.985	0.408	0.458	
				661	1880.0	24.7	24.2	0.817	0.917	0.375	0.421	
				810	1909.8	24.7	24.2	0.755	0.847	0.334	0.375	
			Edge 4	661	1880.0	24.7	24.2	0.084	0.094	0.046	0.052	

10.3. W-CDMA Band V**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	4183	836.6	23.5	23.5	0.785	0.785	0.574	0.574	6
			Left Tilt	4183	836.6	23.5	23.5	0.433	0.433	0.258	0.258	
			Right Touch	4183	836.6	23.5	23.5	0.634	0.634	0.412	0.412	
			Right Tilt	4183	836.6	23.5	23.5	0.383	0.383	0.228	0.228	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	4183	836.6	23.5	23.5	0.303	0.303	0.191	0.191	
			Front	4183	836.6	23.5	23.5	0.301	0.301	0.194	0.194	
Hotspot	Rel 99 RMC	5	Edge 1	4183	836.6	23.5	23.5	0.125	0.125	0.057	0.057	
			Edge 2	4183	836.6	23.5	23.5	0.431	0.431	0.281	0.281	
			Edge 4	4183	836.6	23.5	23.5	0.331	0.331	0.214	0.214	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	4183	836.6	25.0	25.0	0.570	0.570	0.442	0.442	
			Left Tilt	4183	836.6	25.0	25.0	0.318	0.318	0.245	0.245	
			Right Touch	4183	836.6	25.0	25.0	0.491	0.491	0.376	0.376	
			Right Tilt	4183	836.6	25.0	25.0	0.306	0.306	0.238	0.238	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	4132	826.4	25.0	25.0	0.709	0.709	0.459	0.459	
				4183	836.6	25.0	25.0	0.819	0.819	0.504	0.504	
				4233	846.6	25.0	25.0	0.926	0.926	0.579	0.579	
			Front	4132	826.4	25.0	25.0	0.844	0.844	0.462	0.462	
				4183	836.6	25.0	25.0	0.951	0.951	0.528	0.528	7
				4233	846.6	25.0	25.0	0.868	0.868	0.473	0.473	
Hotspot	Rel 99 RMC	5	Edge 2	4183	836.6	25.0	25.0	0.522	0.522	0.338	0.338	
			Edge 3	4183	836.6	25.0	25.0	0.653	0.653	0.307	0.307	
			Edge 4	4183	836.6	25.0	25.0	0.476	0.476	0.309	0.309	

10.4. W-CDMA Band IV**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	1413	1732.6	17.5	17.5	0.343	0.343	0.179	0.179	
			Left Tilt	1413	1732.6	17.5	17.5	0.370	0.370	0.191	0.191	
			Right Touch	1312	1712.4	17.5	17.5	0.864	0.864	0.448	0.448	
				1413	1732.6	17.5	17.5	0.925	0.925	0.481	0.481	8
			Right Tilt	1513	1752.6	17.5	17.5	0.879	0.879	0.452	0.452	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	1413	1732.6	17.5	17.5	0.728	0.728	0.367	0.367	
				1312	1712.4	20.0	20.0	0.861	0.861	0.430	0.430	
				1513	1752.6	20.0	20.0	0.968	0.968	0.477	0.477	
			Front	1312	1712.4	20.0	20.0	0.886	0.886	0.426	0.426	
				1413	1732.6	20.0	20.0	0.999	0.999	0.476	0.476	
				1513	1752.6	20.0	20.0	0.943	0.943	0.456	0.456	
Hotspot	Rel 99 RMC	5	Edge 1	1312	1712.4	20.0	20.0	0.822	0.822	0.372	0.372	
				1413	1732.6	20.0	20.0	0.922	0.922	0.418	0.418	
				1513	1752.6	20.0	20.0	0.919	0.919	0.409	0.409	
			Edge 2	1413	1732.6	20.0	20.0	0.035	0.035	0.012	0.012	
			Edge 4	1413	1732.6	20.0	20.0	0.624	0.624	0.341	0.341	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	1413	1732.6	25.0	25.0	0.297	0.297	0.198	0.198	
			Left Tilt	1413	1732.6	25.0	25.0	0.180	0.180	0.111	0.111	
			Right Touch	1413	1732.6	25.0	25.0	0.668	0.668	0.429	0.429	
			Right Tilt	1413	1732.6	25.0	25.0	0.181	0.181	0.120	0.120	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	1312	1712.4	19.5	19.5	0.834	0.834	0.409	0.409	
				1413	1732.6	19.5	19.5	0.964	0.964	0.467	0.467	
				1513	1752.6	19.5	19.5	1.050	1.050	0.504	0.504	9
			Front	1312	1712.4	19.5	19.5	0.882	0.882	0.449	0.449	
				1413	1732.6	19.5	19.5	0.940	0.940	0.476	0.476	
				1513	1752.6	19.5	19.5	0.982	0.982	0.489	0.489	
Hotspot	Rel 99 RMC	5	Edge 2	1413	1732.6	19.5	19.5	0.393	0.393	0.214	0.214	
			Edge 3	1312	1712.4	19.5	19.5	0.954	0.954	0.467	0.467	
				1413	1732.6	19.5	19.5	0.971	0.971	0.477	0.477	
				1513	1752.6	19.5	19.5	1.110	1.110	0.546	0.546	10
			Edge 4	1413	1732.6	19.5	19.5	0.026	0.026	0.013	0.013	

10.5. W-CDMA Band II**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	9400	1880.0	18.5	18.5	0.317	0.317	0.164	0.164	
			Left Tilt	9400	1880.0	18.5	18.5	0.322	0.322	0.164	0.164	
			Right Touch	9262	1852.4	18.5	18.5	0.852	0.852	0.444	0.444	
				9400	1880.0	18.5	18.5	0.880	0.880	0.459	0.459	
			Right Tilt	9538	1907.6	18.5	18.5	0.939	0.939	0.490	0.490	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	9400	1880.0	21.5	21.5	0.858	0.858	0.430	0.430	
				9262	1852.4	21.5	21.5	0.880	0.880	0.438	0.438	
				9538	1907.6	21.5	21.5	0.979	0.979	0.481	0.481	
			Front	9262	1852.4	21.5	21.5	0.871	0.871	0.398	0.398	
				9400	1880.0	21.5	21.5	0.897	0.897	0.409	0.409	
				9538	1907.6	21.5	21.5	0.966	0.966	0.445	0.445	
Hotspot	Rel 99 RMC	5	Edge 1	9400	1880.0	21.5	21.5	0.745	0.745	0.236	0.236	
			Edge 2	9400	1880.0	21.5	21.5	0.062	0.062	0.032	0.032	
			Edge 4	9400	1880.0	21.5	21.5	0.588	0.588	0.318	0.318	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	Rel 99 RMC	0	Left Touch	9400	1880.0	25.0	25.0	0.675	0.675	0.442	0.442	
			Left Tilt	9400	1880.0	25.0	25.0	0.451	0.451	0.270	0.270	
			Right Touch	9262	1852.4	25.0	25.0	1.020	1.020	0.643	0.643	
				9400	1880.0	25.0	25.0	1.070	1.070	0.666	0.666	
			Right Tilt	9538	1907.6	25.0	25.0	1.080	1.080	0.668	0.668	11
				9400	1880.0	25.0	25.0	0.377	0.377	0.249	0.249	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	9262	1852.4	18.5	18.5	1.100	1.100	0.532	0.532	
				9400	1880.0	18.5	18.5	1.140	1.140	0.543	0.543	12
				9538	1907.6	18.5	18.5	1.060	1.060	0.512	0.512	
			Front	9262	1852.4	18.5	18.5	0.936	0.936	0.458	0.458	
				9400	1880.0	18.5	18.5	0.948	0.948	0.457	0.457	
				9538	1907.6	18.5	18.5	0.959	0.959	0.461	0.461	
Hotspot	Rel 99 RMC	5	Edge 2	9400	1880.0	18.5	18.5	0.631	0.631	0.343	0.343	
			Edge 3	9262	1852.4	18.5	18.5	0.828	0.828	0.394	0.394	
				9400	1880.0	18.5	18.5	0.833	0.833	0.388	0.388	
				9538	1907.6	18.5	18.5	0.927	0.927	0.413	0.413	
			Edge 4	9400	1880.0	18.5	18.5	0.105	0.105	0.056	0.056	

10.6. CDMA BC0**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	1013	824.7	23.5	23.5	0.920	0.920	0.675	0.675	13
				384	836.5	23.5	23.5	0.943	0.943	0.693	0.693	
				777	848.3	23.5	23.5	0.767	0.767	0.559	0.559	
			Left Tilt	384	836.5	23.5	23.5	0.629	0.629	0.374	0.374	
				1013	824.7	23.5	23.5	0.796	0.796	0.589	0.589	
				384	836.5	23.5	23.5	0.896	0.896	0.661	0.661	
	1xEVDO (Rel. 0)	0	Right Touch	777	848.3	23.5	23.5	0.679	0.679	0.501	0.501	
				384	836.5	23.5	23.5	0.594	0.594	0.355	0.355	
				1013	824.7	23.5	23.5	0.767	0.767	0.572	0.572	
			Right Tilt	384	836.5	23.5	23.5	0.892	0.892	0.661	0.661	
				777	848.3	23.5	23.5	0.690	0.690	0.510	0.510	
				384	836.5	23.5	23.5	0.545	0.545	0.329	0.329	
			Left Touch	1013	824.7	23.5	23.5	0.755	0.755	0.556	0.556	
				384	836.5	23.5	23.5	0.840	0.840	0.581	0.581	
				777	848.3	23.5	23.5	0.649	0.649	0.476	0.476	
				384	836.5	23.5	23.5	0.513	0.513	0.304	0.304	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	384	836.5	23.5	23.5	0.376	0.376	0.239	0.239	
			Front	384	836.5	23.5	23.5	0.380	0.380	0.237	0.237	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	384	836.5	23.5	23.5	0.163	0.163	0.074	0.074	
			Edge 2	384	836.5	23.5	23.5	0.392	0.392	0.255	0.255	
			Edge 4	384	836.5	23.5	23.5	0.304	0.304	0.198	0.198	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	384	836.5	25.0	25.0	0.476	0.476	0.367	0.367	
			Left Tilt	384	836.5	25.0	25.0	0.251	0.251	0.193	0.193	
			Right Touch	384	836.5	25.0	25.0	0.387	0.387	0.295	0.295	
			Right Tilt	384	836.5	25.0	25.0	0.225	0.225	0.175	0.175	
	1xEVDO (Rel. 0)	0	Left Touch	384	836.5	25.0	25.0	0.424	0.424	0.332	0.332	
			Left Tilt	384	836.5	25.0	25.0	0.236	0.236	0.182	0.182	
			Right Touch	384	836.5	25.0	25.0	0.374	0.374	0.290	0.290	
			Right Tilt	384	836.5	25.0	25.0	0.220	0.220	0.172	0.172	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	1013	824.7	25.0	25.0	0.785	0.785	0.475	0.475	14
				384	836.5	25.0	25.0	0.996	0.996	0.587	0.587	
				777	848.3	25.0	25.0	0.743	0.743	0.453	0.453	
			Front	1013	824.7	25.0	25.0	0.874	0.874	0.500	0.500	
				384	836.5	25.0	25.0	0.931	0.931	0.502	0.502	
				777	848.3	25.0	25.0	0.809	0.809	0.446	0.446	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	384	836.5	25.0	25.0	0.710	0.710	0.463	0.463	
			Edge 3	384	836.5	25.0	25.0	0.793	0.793	0.371	0.371	
			Edge 4	384	836.5	25.0	25.0	0.756	0.756	0.498	0.498	

10.7. CDMA BC1**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	600	1880.0	18.5	18.5	0.332	0.332	0.165	0.165	
			Left Tilt	600	1880.0	18.5	18.5	0.349	0.349	0.173	0.173	
			Right Touch	25	1851.3	18.5	18.5	0.877	0.877	0.448	0.448	
				600	1880.0	18.5	18.5	0.920	0.920	0.467	0.467	
			Right Tilt	1175	1908.8	18.5	18.5	0.988	0.988	0.503	0.503	
				600	1880.0	18.5	18.5	0.770	0.770	0.355	0.355	
	1xEVDO (Rel. 0)	0	Left Touch	600	1880.0	18.5	18.5	0.321	0.321	0.164	0.164	
			Left Tilt	600	1880.0	18.5	18.5	0.335	0.335	0.171	0.171	
			Right Touch	25	1851.3	18.5	18.5	0.831	0.831	0.433	0.433	
				600	1880.0	18.5	18.5	0.872	0.872	0.452	0.452	
			Right Tilt	1175	1908.8	18.5	18.5	0.933	0.933	0.486	0.486	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1851.3	21.5	21.0	0.874	0.981	0.444	0.498	
				600	1880.0	21.5	21.0	0.862	0.967	0.435	0.488	
				1175	1908.8	21.5	21.0	0.873	0.980	0.425	0.477	
			Front	25	1851.3	21.5	21.0	0.757	0.849	0.348	0.390	
				600	1880.0	21.5	21.0	0.784	0.880	0.356	0.399	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	1175	1908.8	21.5	21.0	0.860	0.965	0.390	0.438	
				25	1851.3	21.5	21.0	0.800	0.898	0.356	0.399	
				600	1880.0	21.5	21.0	0.817	0.917	0.359	0.403	
			Edge 2	600	1880.0	21.5	21.0	0.061	0.068	0.032	0.036	
			Edge 4	600	1880.0	21.5	21.0	0.689	0.773	0.371	0.416	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	600	1880.0	25.0	25.0	0.557	0.557	0.364	0.364	
			Left Tilt	600	1880.0	25.0	25.0	0.450	0.450	0.267	0.267	
			Right Touch	25	1851.3	25.0	25.0	1.140	1.140	0.704	0.704	15
				600	1880.0	25.0	25.0	1.130	1.130	0.692	0.692	
			Right Tilt	1175	1908.8	25.0	25.0	1.140	1.140	0.699	0.699	
				600	1880.0	25.0	25.0	0.351	0.351	0.224	0.224	
	1xEVDO (Rel. 0)	0	Left Touch	600	1880.0	25.0	25.0	0.519	0.519	0.339	0.339	
			Left Tilt	600	1880.0	25.0	25.0	0.440	0.440	0.261	0.261	
			Right Touch	25	1851.3	25.0	25.0	1.130	1.130	0.699	0.699	
				600	1880.0	25.0	25.0	1.100	1.100	0.675	0.675	
			Right Tilt	1175	1908.8	25.0	25.0	1.110	1.110	0.677	0.677	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	600	1880.0	25.0	25.0	0.334	0.334	0.218	0.218	
				25	1851.3	18.5	18.5	1.130	1.130	0.534	0.534	16
				600	1880.0	18.5	18.5	1.130	1.130	0.530	0.530	
			Front	1175	1908.8	18.5	18.5	1.090	1.090	0.508	0.508	
				25	1851.3	18.5	18.5	0.929	0.929	0.453	0.453	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	600	1880.0	18.5	18.5	0.912	0.912	0.437	0.437	
				1175	1908.8	18.5	18.5	1.010	1.010	0.480	0.480	
			Edge 3	25	1851.3	18.5	18.5	0.545	0.545	0.298	0.298	
				600	1880.0	18.5	18.5	0.942	0.942	0.443	0.443	
			Edge 4	1175	1908.8	18.5	18.5	0.928	0.928	0.427	0.427	

10.8. CDMA BC10**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	580	820.5	23.5	23.5	0.712	0.712	0.526	0.526	17
			Left Tilt	580	820.5	23.5	23.5	0.389	0.389	0.235	0.235	
			Right Touch	580	820.5	23.5	23.5	0.612	0.612	0.427	0.427	
			Right Tilt	580	820.5	23.5	23.5	0.322	0.322	0.191	0.191	
	1xEVDO (Rel. 0)	0	Left Touch	580	820.5	23.5	23.5	0.707	0.707	0.519	0.519	
			Left Tilt	580	820.5	23.5	23.5	0.375	0.375	0.231	0.231	
			Right Touch	580	820.5	23.5	23.5	0.524	0.524	0.379	0.379	
			Right Tilt	580	820.5	23.5	23.5	0.269	0.269	0.163	0.163	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	580	820.5	23.5	23.5	0.258	0.258	0.168	0.168	
			Front	580	820.5	23.5	23.5	0.250	0.250	0.161	0.161	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	580	820.5	23.5	23.5	0.093	0.093	0.043	0.043	
			Edge 2	580	820.5	23.5	23.5	0.412	0.412	0.270	0.270	
			Edge 4	580	820.5	23.5	23.5	0.307	0.307	0.201	0.201	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	580	820.5	25.0	25.0	0.581	0.581	0.448	0.448	
			Left Tilt	580	820.5	25.0	25.0	0.387	0.387	0.298	0.298	
			Right Touch	580	820.5	25.0	25.0	0.492	0.492	0.377	0.377	
			Right Tilt	580	820.5	25.0	25.0	0.371	0.371	0.285	0.285	
	1xEVDO (Rel. 0)	0	Left Touch	580	820.5	25.0	25.0	0.539	0.539	0.426	0.426	
			Left Tilt	580	820.5	25.0	25.0	0.380	0.380	0.293	0.293	
			Right Touch	580	820.5	25.0	25.0	0.483	0.483	0.383	0.383	
			Right Tilt	580	820.5	25.0	25.0	0.358	0.358	0.277	0.277	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	476	817.9	25.0	25.0	0.790	0.790	0.484	0.484	
				580	820.5	25.0	25.0	0.829	0.829	0.504	0.504	
				684	823.1	25.0	25.0	0.878	0.878	0.531	0.531	
			Front	476	817.9	25.0	25.0	0.962	0.962	0.520	0.520	
				580	820.5	25.0	25.0	0.996	0.996	0.538	0.538	
				684	823.1	25.0	25.0	1.100	1.100	0.602	0.602	18
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	580	820.5	25.0	25.0	0.421	0.421	0.277	0.277	
			Edge 3	580	820.5	25.0	25.0	0.375	0.375	0.183	0.183	
			Edge 4	476	817.9	25.0	25.0	0.844	0.844	0.561	0.561	
				580	820.5	25.0	25.0	0.868	0.868	0.576	0.576	
				684	823.1	25.0	25.0	0.864	0.864	0.574	0.574	

10.9. CDMA BC15**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	450	1732.5	17.5	17.5	0.350	0.350	0.210	0.210	
			Left Tilt	450	1732.5	17.5	17.5	0.327	0.327	0.182	0.182	
			Right Touch	25	1711.3	17.5	17.5	0.848	0.848	0.438	0.438	
				450	1732.5	17.5	17.5	0.924	0.924	0.475	0.475	19
				875	1753.8	17.5	17.5	0.893	0.893	0.454	0.454	
			Right Tilt	450	1732.5	17.5	17.5	0.669	0.669	0.348	0.348	
	1xEVDO (Rel. 0)	0	Left Touch	450	1732.5	17.5	17.5	0.294	0.294	0.159	0.159	
			Left Tilt	450	1732.5	17.5	17.5	0.319	0.319	0.172	0.172	
			Right Touch	25	1711.3	17.5	17.5	0.733	0.733	0.387	0.387	
				450	1732.5	17.5	17.5	0.825	0.825	0.435	0.435	
				875	1753.8	17.5	17.5	0.874	0.874	0.438	0.438	
			Right Tilt	450	1732.5	17.5	17.5	0.721	0.721	0.380	0.380	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	450	1732.5	20.0	20.0	0.699	0.699	0.352	0.352	
			Front	450	1732.5	20.0	20.0	0.781	0.781	0.367	0.367	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	450	1732.5	20.0	20.0	0.762	0.762	0.345	0.345	
			Edge 2	450	1732.5	20.0	20.0	0.027	0.027	0.014	0.014	
			Edge 4	450	1732.5	20.0	20.0	0.495	0.495	0.270	0.270	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	1xRTT (RC3 SO55)	0	Left Touch	450	1732.5	25.0	25.0	0.332	0.332	0.222	0.222	
			Left Tilt	450	1732.5	25.0	25.0	0.226	0.226	0.138	0.138	
			Right Touch	450	1732.5	25.0	25.0	0.742	0.742	0.497	0.497	
			Right Tilt	450	1732.5	25.0	25.0	0.192	0.192	0.126	0.126	
	1xEVDO (Rel. 0)	0	Left Touch	450	1732.5	25.0	25.0	0.296	0.296	0.200	0.200	
			Left Tilt	450	1732.5	25.0	25.0	0.222	0.222	0.135	0.135	
			Right Touch	450	1732.5	25.0	25.0	0.624	0.624	0.409	0.409	
			Right Tilt	450	1732.5	25.0	25.0	0.212	0.212	0.131	0.131	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1711.3	19.5	19.5	0.776	0.776	0.376	0.376	
				450	1732.5	19.5	19.5	0.882	0.882	0.431	0.431	
				875	1753.8	19.5	19.5	0.982	0.982	0.476	0.476	20
			Front	25	1711.3	19.5	19.5	0.740	0.740	0.385	0.385	
				450	1732.5	19.5	19.5	0.875	0.875	0.444	0.444	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	450	1732.5	19.5	19.5	0.377	0.377	0.206	0.206	
			Edge 3	25	1711.3	19.5	19.5	0.869	0.869	0.424	0.424	
				450	1732.5	19.5	19.5	0.894	0.894	0.438	0.438	
				875	1753.8	19.5	19.5	0.926	0.926	0.450	0.450	
			Edge 4	450	1732.5	19.5	19.5	0.082	0.082	0.045	0.045	

10.10. LTE Band 2 (20MHz Bandwidth)

UAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	18900	1880.0	1	49	18.5	18.5	0.351	0.351	0.172	0.172	
						50	24	17.5	17.5	0.264	0.264	0.130	0.130	
			Left Tilt	18900	1880.0	1	49	18.5	18.5	0.373	0.373	0.182	0.182	
						50	24	17.5	17.5	0.286	0.286	0.140	0.140	
			Right Touch	18700	1860.0	1	49	18.5	18.5	0.854	0.854	0.440	0.440	
				18900	1880.0	1	49	18.5	18.5	0.872	0.872	0.446	0.446	
						50	24	17.5	17.5	0.726	0.726	0.370	0.370	
				19100	1900.0	1	49	18.5	18.5	0.931	0.931	0.480	0.480	21
			Right Tilt	18700	1860.0	1	49	18.5	18.5	0.806	0.806	0.376	0.376	
				18900	1880.0	1	49	18.5	18.5	0.826	0.826	0.386	0.386	
						50	24	17.5	17.5	0.667	0.667	0.302	0.302	
				19100	1900.0	1	49	18.5	18.5	0.882	0.882	0.412	0.412	
Body-worn & Hotspot	QPSK	5	Rear	18700	1860.0	1	49	21.5	21.5	0.799	0.799	0.401	0.401	
				18900	1880.0	1	49	21.5	21.5	0.827	0.827	0.409	0.409	
						50	24	20.5	20.5	0.619	0.619	0.307	0.307	
			Front	19100	1900.0	1	49	21.5	21.5	0.869	0.869	0.432	0.432	
				18700	1860.0	1	49	21.5	21.5	0.882	0.882	0.415	0.415	
				18900	1880.0	1	49	21.5	21.5	0.966	0.966	0.450	0.450	
						50	24	20.5	20.5	0.674	0.674	0.306	0.306	
				19100	1900.0	1	49	21.5	21.5	0.931	0.931	0.440	0.440	
Hotspot	QPSK	5	Edge 1	18700	1860.0	1	49	21.5	21.5	0.919	0.919	0.397	0.397	
				18900	1880.0	1	49	21.5	21.5	0.933	0.933	0.402	0.402	
						50	24	20.5	20.5	0.759	0.759	0.325	0.325	
			Edge 2	18900	1880.0	1	49	21.5	21.5	0.066	0.066	0.035	0.035	
						50	24	20.5	20.5	0.058	0.058	0.031	0.031	
			Edge 4	18900	1880.0	1	49	21.5	21.5	0.588	0.588	0.315	0.315	
						50	24	20.5	20.5	0.467	0.467	0.250	0.250	
						50	24	20.5	20.5	0.467	0.467	0.250	0.250	

LAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	18900	1880.0	1	49	24.0	24.0	0.505	0.505	0.329	0.329	
						50	24	23.0	23.0	0.400	0.400	0.262	0.262	
			Left Tilt	18900	1880.0	1	49	24.0	24.0	0.413	0.413	0.239	0.239	
						50	24	23.0	23.0	0.329	0.329	0.192	0.192	
			Right Touch	18700	1860.0	1	49	24.0	24.0	0.887	0.887	0.551	0.551	
				18900	1880.0	1	49	24.0	24.0	0.897	0.897	0.556	0.556	
						50	24	23.0	23.0	0.740	0.740	0.459	0.459	
			Right Tilt	19100	1900.0	1	49	24.0	24.0	0.898	0.898	0.556	0.556	
						1	49	24.0	24.0	0.305	0.305	0.194	0.194	
				18900	1880.0	1	49	24.0	24.0	0.305	0.305	0.194	0.194	
Body-worn & Hotspot	QPSK	5	Rear	18700	1860.0	1	49	18.5	18.5	1.070	1.070	5.040	5.040	
						50	24	17.5	17.5	0.855	0.855	0.408	0.408	
				18900	1880.0	1	49	18.5	18.5	1.070	1.070	0.503	0.503	
						50	24	17.5	17.5	0.855	0.855	0.405	0.405	
						100	0	17.5	17.5	0.831	0.831	0.390	0.390	
				19100	1900.0	1	49	18.5	18.5	1.110	1.110	0.515	0.515	22
			Front			50	24	17.5	17.5	0.890	0.890	0.419	0.419	
				18700	1860.0	1	49	18.5	18.5	0.885	0.885	0.430	0.430	
						1	49	18.5	18.5	0.895	0.895	0.428	0.428	
				18900	1880.0	1	49	18.5	18.5	0.895	0.895	0.428	0.428	
						50	24	17.5	17.5	0.616	0.616	0.298	0.298	
				19100	1900.0	1	49	18.5	18.5	0.908	0.908	0.432	0.432	
Hotspot	QPSK	5	Edge 2	18900	1880.0	1	49	18.5	18.5	0.545	0.545	0.300	0.300	
						50	24	17.5	17.5	0.424	0.424	0.233	0.233	
			Edge 3	18700	1860.0	1	49	18.5	18.5	0.866	0.866	0.405	0.405	
				18900	1880.0	1	49	18.5	18.5	0.852	0.852	0.389	0.389	
						50	24	17.5	17.5	0.728	0.728	0.328	0.328	
			Edge 4	19100	1900.0	1	49	18.5	18.5	0.894	0.894	0.402	0.402	
						1	49	18.5	18.5	0.124	0.124	0.066	0.066	
				18900	1880.0	1	49	18.5	18.5	0.124	0.124	0.066	0.066	
						50	24	17.5	17.5	0.097	0.097	0.051	0.051	

10.11. LTE Band 4 (20MHz Bandwidth)

UAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	20175	1732.5	1	49	17.5	17.5	0.348	0.348	0.184	0.184	
						50	24	16.5	16.5	0.274	0.274	0.153	0.153	
			Left Tilt	20175	1732.5	1	49	17.5	17.5	0.363	0.363	0.198	0.198	
						50	24	16.5	16.5	0.283	0.283	0.160	0.160	
			Right Touch	20050	1720.0	1	49	17.5	17.5	0.966	0.966	0.503	0.503	23
				20175	1732.5	1	49	17.5	17.5	0.966	0.966	0.500	0.500	
						50	24	16.5	16.5	0.714	0.714	0.371	0.371	
				20300	1745.0	1	49	17.5	17.5	0.966	0.966	0.498	0.498	
			Right Tilt	20175	1732.5	1	49	17.5	17.5	0.715	0.715	0.371	0.371	
						50	24	16.5	16.5	0.555	0.555	0.285	0.285	
Body-worn & Hotspot	QPSK	5	Rear	20050	1720.0	1	49	20.0	20.0	0.824	0.824	0.414	0.414	
				20175	1732.5	1	49	20.0	20.0	0.868	0.868	0.439	0.439	
						50	24	19.0	19.0	0.797	0.797	0.397	0.397	
				20300	1745.0	1	49	20.0	20.0	0.888	0.888	0.450	0.450	
			Front	20050	1720.0	1	49	20.0	20.0	0.908	0.908	0.439	0.439	
				20175	1732.5	1	49	20.0	20.0	0.971	0.971	0.473	0.473	24
						50	24	19.0	19.0	0.773	0.773	0.371	0.371	
				20300	1745.0	1	49	20.0	20.0	0.960	0.960	0.462	0.462	
Hotspot	QPSK	5	Edge 1	20050	1720.0	1	49	20.0	20.0	0.958	0.958	0.435	0.435	
				20175	1732.5	1	49	20.0	20.0	0.966	0.966	0.427	0.427	
						50	24	19.0	19.0	0.787	0.787	0.345	0.345	
				20300	1745.0	1	49	20.0	20.0	0.990	0.990	0.447	0.447	
			Edge 2	20175	1732.5	1	49	20.0	20.0	0.052	0.052	0.028	0.028	
						50	24	19.0	19.0	0.031	0.031	0.017	0.017	
			Edge 4	20175	1732.5	1	49	20.0	20.0	0.559	0.559	0.313	0.313	
						50	24	19.0	19.0	0.463	0.463	0.257	0.257	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	20175	1732.5	1	49	24.0	24.0	0.213	0.213	0.144	0.144	
						50	24	23.0	23.0	0.173	0.173	0.117	0.117	
			Left Tilt	20175	1732.5	1	49	24.0	24.0	0.161	0.161	0.101	0.101	
						50	24	23.0	23.0	0.130	0.130	0.083	0.083	
			Right Touch	20175	1732.5	1	49	24.0	24.0	0.460	0.460	0.295	0.295	
						50	24	23.0	23.0	0.379	0.379	0.242	0.242	
			Right Tilt	20175	1732.5	1	49	24.0	24.0	0.157	0.157	0.104	0.104	
						50	24	23.0	23.0	0.125	0.125	0.080	0.080	
Body-worn & Hotspot	QPSK	5	Rear	20050	1720.0	1	49	19.5	19.5	0.841	0.841	0.412	0.412	
				20175	1732.5	1	49	19.5	19.5	0.897	0.897	0.442	0.442	
						50	24	18.5	18.5	0.622	0.622	0.310	0.310	
				20300	1745.0	1	49	19.5	19.5	0.836	0.836	0.410	0.410	
			Front	20050	1720.0	1	49	19.5	19.5	0.838	0.838	0.426	0.426	
				20175	1732.5	1	49	19.5	19.5	0.891	0.891	0.446	0.446	
						50	24	18.5	18.5	0.745	0.745	0.370	0.370	
				20300	1745.0	1	49	19.5	19.5	0.899	0.899	0.447	0.447	
Hotspot	QPSK	5	Edge 2	20175	1732.5	1	49	19.5	19.5	0.430	0.430	0.239	0.239	
						50	24	18.5	18.5	0.324	0.324	0.180	0.180	
			Edge 3	20050	1720.0	1	49	19.5	19.5	0.948	0.948	0.467	0.467	
				20175	1732.5	1	49	19.5	19.5	1.010	1.010	0.500	0.500	
						50	24	18.5	18.5	0.688	0.688	0.335	0.335	
				20300	1745.0	1	49	19.5	19.5	1.030	1.030	0.508	0.508	25
			Edge 4	20175	1732.5	1	49	19.5	19.5	0.034	0.034	0.018	0.018	
						50	24	18.5	18.5	0.023	0.023	0.011	0.011	

10.12. LTE Band 5 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	20525	836.5	1	24	22.5	22.5	0.578	0.578	0.387	0.387	26
						25	12	21.5	21.5	0.406	0.406	0.273	0.273	
			Left Tilt	20525	836.5	1	24	22.5	22.5	0.344	0.344	0.200	0.200	
						25	12	21.5	21.5	0.246	0.246	0.143	0.143	
			Right Touch	20525	836.5	1	24	22.5	22.5	0.496	0.496	0.322	0.322	
						25	12	21.5	21.5	0.363	0.363	0.231	0.231	
			Right Tilt	20525	836.5	1	24	22.5	22.5	0.282	0.282	0.166	0.166	
						25	12	21.5	21.5	0.220	0.220	0.128	0.128	
Body-worn & Hotspot	QPSK	5	Rear	20525	836.5	1	24	22.5	22.5	0.246	0.246	0.158	0.158	
						25	12	21.5	21.5	0.186	0.186	0.121	0.121	
			Front	20525	836.5	1	24	22.5	22.5	0.214	0.214	0.133	0.133	
						25	12	21.5	21.5	0.182	0.182	0.114	0.114	
Hotspot	QPSK	5	Edge 1	20525	836.5	1	24	22.5	22.5	0.093	0.093	0.041	0.041	
						25	12	21.5	21.5	0.079	0.079	0.035	0.035	
			Edge 2	20525	836.5	1	24	22.5	22.5	0.383	0.383	0.248	0.248	
						25	12	21.5	21.5	0.167	0.167	0.110	0.110	
			Edge 4	20525	836.5	1	24	22.5	22.5	0.116	0.116	0.075	0.075	
						25	12	21.5	21.5	0.110	0.110	0.071	0.071	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	20525	836.5	1	24	24.0	24.0	0.362	0.362	0.280	0.280	
						25	12	23.0	23.0	0.339	0.339	0.263	0.263	
			Left Tilt	20525	836.5	1	24	24.0	24.0	0.210	0.210	0.160	0.160	
						25	12	23.0	23.0	0.191	0.191	0.146	0.146	
			Right Touch	20525	836.5	1	24	24.0	24.0	0.293	0.293	0.227	0.227	
						25	12	23.0	23.0	0.289	0.289	0.222	0.222	
			Right Tilt	20525	836.5	1	24	24.0	24.0	0.225	0.225	0.168	0.168	
						25	12	23.0	23.0	0.208	0.208	0.155	0.155	
Body-worn & Hotspot	QPSK	5	Rear	20525	836.5	1	24	24.0	24.0	0.615	0.615	0.366	0.366	
						25	12	23.0	23.0	0.505	0.505	0.301	0.301	
			Front	20525	836.5	1	24	24.0	24.0	0.721	0.721	0.397	0.397	27
						25	12	23.0	23.0	0.528	0.528	0.297	0.297	
Hotspot	QPSK	5	Edge 2	20525	836.5	1	24	24.0	24.0	0.327	0.327	0.213	0.213	
						25	12	23.0	23.0	0.258	0.258	0.168	0.168	
			Edge 3	20525	836.5	1	24	24.0	24.0	0.497	0.497	0.234	0.234	
						25	12	23.0	23.0	0.399	0.399	0.186	0.186	
			Edge 4	20525	836.5	1	24	24.0	24.0	0.785	0.785	0.516	0.516	28
						25	12	23.0	23.0	0.574	0.574	0.377	0.377	

10.13. LTE Band 7 (20MHz Bandwidth)

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	21100	2535.0	1	49	18.0	18.0	0.734	0.734	0.346	0.346	
						50	24	17.0	17.0	0.553	0.553	0.260	0.260	
			Left Tilt	21100	2535.0	1	49	18.0	18.0	0.700	0.700	0.282	0.282	
						50	24	17.0	17.0	0.666	0.666	0.267	0.267	
			Right Touch	20850	2510.0	1	49	18.0	18.0	0.877	0.877	0.396	0.396	
				21100	2535.0	1	49	18.0	18.0	0.921	0.921	0.411	0.411	
						50	24	17.0	17.0	0.735	0.735	0.329	0.329	
				21350	2560.0	1	49	18.0	18.0	0.994	0.994	0.442	0.442	
			Right Tilt	20850	2510.0	1	49	18.0	18.0	0.959	0.959	0.397	0.397	
				21100	2535.0	1	49	18.0	18.0	0.937	0.937	0.396	0.396	
						50	24	17.0	17.0	0.705	0.705	0.290	0.290	
				21350	2560.0	1	49	18.0	18.0	0.951	0.951	0.413	0.413	
Body-worn & Hotspot	QPSK	5	Rear	20850	2510.0	1	49	17.7	17.7	0.788	0.788	0.318	0.318	
				21100	2535.0	1	49	17.7	17.7	0.861	0.861	0.348	0.348	
						50	24	16.7	16.7	0.709	0.709	0.286	0.286	
				21350	2560.0	1	49	17.7	17.7	0.985	0.985	0.397	0.397	
			Front	21100	2535.0	1	49	17.7	17.7	0.574	0.574	0.239	0.239	
						50	24	16.7	16.7	0.372	0.372	0.157	0.157	
Hotspot	QPSK	5	Edge 1	21100	2535.0	1	49	17.7	17.7	0.421	0.421	0.179	0.179	
						50	24	16.7	16.7	0.288	0.288	0.127	0.127	
			Edge 2	21100	2535.0	1	49	17.7	17.7	0.267	0.267	0.125	0.125	
						50	24	16.7	16.7	0.227	0.227	0.104	0.104	
			Edge 4	21100	2535.0	1	49	17.7	17.7	0.345	0.345	0.171	0.171	
						50	24	16.7	16.7	0.293	0.293	0.145	0.145	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	20850	2510.0	1	49	22.0	22.0	0.988	0.988	0.540	0.540	29
				21100	2535.0	1	49	22.0	22.0	0.994	0.994	0.546	0.546	
						50	24	21.0	21.0	0.665	0.665	0.359	0.359	
			Left Tilt	21350	2560.0	1	49	22.0	22.0	0.834	0.834	0.453	0.453	
				21100	2535.0	1	49	22.0	22.0	0.270	0.270	0.128	0.128	
						50	24	21.0	21.0	0.145	0.145	0.071	0.071	
			Right Touch	21100	2535.0	1	49	22.0	22.0	0.531	0.531	0.291	0.291	
						50	24	21.0	21.0	0.411	0.411	0.225	0.225	
				21100	2535.0	1	49	22.0	22.0	0.414	0.414	0.181	0.181	
			Right Tilt			50	24	21.0	21.0	0.331	0.331	0.145	0.145	
Body-worn & Hotspot	QPSK	5	Rear	20850	2510.0	1	49	17.5	17.5	1.090	1.090	0.512	0.512	30
						50	24	16.5	16.5	0.860	0.860	0.401	0.401	
				21100	2535.0	1	49	17.5	17.5	1.140	1.140	0.533	0.533	
						50	24	16.5	16.5	0.833	0.833	0.391	0.391	
						100	0	16.5	16.5	0.901	0.901	0.423	0.423	
				21350	2560.0	1	49	17.5	17.5	1.040	1.040	0.375	0.375	
			Front			50	24	16.5	16.5	0.932	0.932	0.326	0.326	
				20850	2510.0	1	49	17.5	17.5	0.753	0.753	0.363	0.363	
				21100	2535.0	50	24	16.5	16.5	0.836	0.836	0.393	0.393	
						1	49	17.5	17.5	0.635	0.635	0.300	0.300	
				21350	2560.0	1	49	17.5	17.5	0.619	0.619	0.294	0.294	
Hotspot	QPSK	5	Edge 2	21100	2535.0	50	24	16.5	16.5	0.119	0.119	0.055	0.055	
						1	49	17.5	17.5	0.090	0.090	0.041	0.041	
			Edge 3	21100	2535.0	1	49	17.5	17.5	0.555	0.555	0.232	0.232	
						50	24	16.5	16.5	0.433	0.433	0.180	0.180	
			Edge 4	21100	2535.0	1	49	17.5	17.5	0.656	0.656	0.300	0.300	
						50	24	16.5	16.5	0.543	0.543	0.248	0.248	

10.14. LTE Band 12 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23095	707.5	1	24	23.0	23.0	0.613	0.613	0.416	0.416	31
						25	12	22.0	22.0	0.464	0.464	0.315	0.315	
			Left Tilt	23095	707.5	1	24	23.0	23.0	0.488	0.488	0.301	0.301	
						25	12	22.0	22.0	0.399	0.399	0.243	0.243	
			Right Touch	23095	707.5	1	24	23.0	23.0	0.610	0.610	0.388	0.388	
						25	12	22.0	22.0	0.486	0.486	0.303	0.303	
			Right Tilt	23095	707.5	1	24	23.0	23.0	0.451	0.451	0.268	0.268	
						25	12	22.0	22.0	0.388	0.388	0.225	0.225	
Body-worn & Hotspot	QPSK	5	Rear	23095	707.5	1	24	23.0	23.0	0.276	0.276	0.173	0.173	
						25	12	22.0	22.0	0.190	0.190	0.121	0.121	
			Front	23095	707.5	1	24	23.0	23.0	0.265	0.265	0.170	0.170	
						25	12	22.0	22.0	0.195	0.195	0.123	0.123	
Hotspot	QPSK	5	Edge 1	23095	707.5	1	24	23.0	23.0	0.139	0.139	0.066	0.066	
						25	12	22.0	22.0	0.097	0.097	0.046	0.046	
			Edge 2	23095	707.5	1	24	23.0	23.0	0.332	0.332	0.223	0.223	
						25	12	22.0	22.0	0.261	0.261	0.175	0.175	
			Edge 4	23095	707.5	1	24	23.0	23.0	0.182	0.182	0.121	0.121	
						25	12	22.0	22.0	0.141	0.141	0.094	0.094	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23095	707.5	1	24	24.0	24.0	0.227	0.227	0.177	0.177	
						25	12	23.0	23.0	0.170	0.170	0.132	0.132	
			Left Tilt	23095	707.5	1	24	24.0	24.0	0.075	0.075	0.058	0.058	
						25	12	23.0	23.0	0.037	0.037	0.022	0.022	
			Right Touch	23095	707.5	1	24	24.0	24.0	0.181	0.181	0.139	0.139	
						25	12	23.0	23.0	0.142	0.142	0.109	0.109	
			Right Tilt	23095	707.5	1	24	24.0	24.0	0.097	0.097	0.065	0.065	
						25	12	23.0	23.0	0.069	0.069	0.044	0.044	
Body-worn & Hotspot	QPSK	5	Rear	23095	707.5	1	24	24.0	24.0	0.500	0.500	0.339	0.339	
						25	12	23.0	23.0	0.426	0.426	0.250	0.250	
			Front	23095	707.5	1	24	24.0	24.0	0.518	0.518	0.301	0.301	32
						25	12	23.0	23.0	0.416	0.416	0.249	0.249	
Hotspot	QPSK	5	Edge 2	23095	707.5	1	24	24.0	24.0	0.281	0.281	0.188	0.188	
						25	12	23.0	23.0	0.227	0.227	0.150	0.150	
			Edge 3	23095	707.5	1	24	24.0	24.0	0.452	0.452	0.211	0.211	
						25	12	23.0	23.0	0.345	0.345	0.162	0.162	
			Edge 4	23095	707.5	1	24	24.0	24.0	0.569	0.569	0.384	0.384	33
						25	12	23.0	23.0	0.438	0.438	0.296	0.296	

10.15. LTE Band 13 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23230	782.0	1	24	23.0	23.0	0.758	0.758	0.513	0.513	34
						25	12	22.0	22.0	0.550	0.550	0.362	0.362	
			Left Tilt	23230	782.0	1	24	23.0	23.0	0.528	0.528	0.320	0.320	
						25	12	22.0	22.0	0.381	0.381	0.233	0.233	
			Right Touch	23230	782.0	1	24	23.0	23.0	0.637	0.637	0.404	0.404	
						25	12	22.0	22.0	0.441	0.441	0.284	0.284	
Body-worn & Hotspot	QPSK	5	Rear	23230	782.0	1	24	23.0	23.0	0.262	0.262	0.162	0.162	
						25	12	22.0	22.0	0.256	0.256	0.155	0.155	
			Front	23230	782.0	1	24	23.0	23.0	0.263	0.263	0.160	0.160	
						25	12	22.0	22.0	0.223	0.223	0.139	0.139	
Hotspot	QPSK	5	Edge 1	23230	782.0	1	24	23.0	23.0	0.186	0.186	0.082	0.082	
						25	12	22.0	22.0	0.144	0.144	0.065	0.065	
			Edge 2	23230	782.0	1	24	23.0	23.0	0.379	0.379	0.250	0.250	
						25	12	22.0	22.0	0.301	0.301	0.199	0.199	
			Edge 4	23230	782.0	1	24	23.0	23.0	0.151	0.151	0.099	0.099	
						25	12	22.0	22.0	0.117	0.117	0.077	0.077	

LAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23230	782.0	1	24	24.0	24.0	0.299	0.299	0.226	0.226	
						25	12	23.0	23.0	0.240	0.240	0.182	0.182	
			Left Tilt	23230	782.0	1	24	24.0	24.0	0.130	0.130	0.102	0.102	
						25	12	23.0	23.0	0.127	0.127	0.099	0.099	
			Right Touch	23230	782.0	1	24	24.0	24.0	0.263	0.263	0.198	0.198	
						25	12	23.0	23.0	0.190	0.190	0.142	0.142	
Body-worn & Hotspot	QPSK	5	Rear	23230	782.0	1	24	24.0	24.0	0.585	0.585	0.334	0.334	
						25	12	23.0	23.0	0.464	0.464	0.268	0.268	
			Front	23230	782.0	1	24	24.0	24.0	0.650	0.650	0.369	0.369	35
						25	12	23.0	23.0	0.498	0.498	0.277	0.277	
Hotspot	QPSK	5	Edge 2	23230	782.0	1	24	24.0	24.0	0.335	0.335	0.218	0.218	
						25	12	23.0	23.0	0.221	0.221	0.144	0.144	
			Edge 3	23230	782.0	1	24	24.0	24.0	0.553	0.553	0.251	0.251	
						25	12	23.0	23.0	0.434	0.434	0.198	0.198	
			Edge 4	23230	782.0	1	24	24.0	24.0	0.744	0.744	0.494	0.494	36
						25	12	23.0	23.0	0.632	0.632	0.417	0.417	

10.16. LTE Band 17 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23790	710.0	1	24	23.0	23.0	0.678	0.678	0.449	0.449	37
						25	12	22.0	22.0	0.458	0.458	0.343	0.343	
			Left Tilt	23790	710.0	1	24	23.0	23.0	0.483	0.483	0.303	0.303	
						25	12	22.0	22.0	0.335	0.335	0.208	0.208	
			Right Touch	23790	710.0	1	24	23.0	23.0	0.566	0.566	0.362	0.362	
						25	12	22.0	22.0	0.442	0.442	0.281	0.281	
			Right Tilt	23790	710.0	1	24	23.0	23.0	0.484	0.484	0.285	0.285	
						25	12	22.0	22.0	0.316	0.316	0.182	0.182	
Body-worn & Hotspot	QPSK	5	Rear	23790	710.0	1	24	23.0	23.0	0.280	0.280	0.178	0.178	
						25	12	22.0	22.0	0.190	0.190	0.122	0.122	
			Front	23790	710.0	1	24	23.0	23.0	0.306	0.306	0.193	0.193	
						25	12	22.0	22.0	0.194	0.194	0.122	0.122	
Hotspot	QPSK	5	Edge 1	23790	710.0	1	24	23.0	23.0	0.160	0.160	0.075	0.075	
						25	12	22.0	22.0	0.105	0.105	0.049	0.049	
			Edge 2	23790	710.0	1	24	23.0	23.0	0.356	0.356	0.242	0.242	
						25	12	22.0	22.0	0.284	0.284	0.191	0.191	
			Edge 4	23790	710.0	1	24	23.0	23.0	0.195	0.195	0.130	0.130	
						25	12	22.0	22.0	0.133	0.133	0.088	0.088	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	23790	710.0	1	24	24.0	24.0	0.222	0.222	0.172	0.172	
						25	12	23.0	23.0	0.179	0.179	0.139	0.139	
			Left Tilt	23790	710.0	1	24	24.0	24.0	0.078	0.078	0.061	0.061	
						25	12	23.0	23.0	0.076	0.076	0.060	0.060	
			Right Touch	23790	710.0	1	24	24.0	24.0	0.181	0.181	0.139	0.139	
						25	12	23.0	23.0	0.146	0.146	0.112	0.112	
			Right Tilt	23790	710.0	1	24	24.0	24.0	0.076	0.076	0.047	0.047	
						25	12	23.0	23.0	0.075	0.075	0.059	0.059	
Body-worn & Hotspot	QPSK	5	Rear	23790	710.0	1	24	24.0	24.0	0.494	0.494	0.295	0.295	
						25	12	23.0	23.0	0.420	0.420	0.247	0.247	
			Front	23790	710.0	1	24	24.0	24.0	0.593	0.593	0.344	0.344	38
						25	12	23.0	23.0	0.464	0.464	0.271	0.271	
Hotspot	QPSK	5	Edge 2	23790	710.0	1	24	24.0	24.0	0.273	0.273	0.180	0.180	
						25	12	23.0	23.0	0.212	0.212	0.141	0.141	
			Edge 3	23790	710.0	1	24	24.0	24.0	0.448	0.448	0.209	0.209	
						25	12	23.0	23.0	0.354	0.354	0.165	0.165	
			Edge 4	23790	710.0	1	24	24.0	24.0	0.567	0.567	0.382	0.382	
						25	12	23.0	23.0	0.431	0.431	0.289	0.289	

10.17. LTE Band 25 (20MHz Bandwidth)

UAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	26365	1882.5	1	49	18.5	18.5	0.310	0.310	0.161	0.161	
						50	24	17.5	17.5	0.252	0.252	0.127	0.127	
			Left Tilt	26365	1882.5	1	49	18.5	18.5	0.310	0.310	0.151	0.151	
						50	24	17.5	17.5	0.246	0.246	0.123	0.123	
			Right Touch	26140	1860.0	1	49	18.5	18.5	0.867	0.867	0.454	0.454	
				26365	1882.5	1	49	18.5	18.5	0.886	0.886	0.468	0.468	
						50	24	17.5	17.5	0.760	0.760	0.393	0.393	
				26590	1905.0	1	49	18.5	18.5	0.935	0.935	0.495	0.495	
			Right Tilt	26365	1882.5	1	49	18.5	18.5	0.792	0.792	0.377	0.377	
						50	24	17.5	17.5	0.616	0.616	0.279	0.279	
Body-worn & Hotspot	QPSK	5	Rear	26140	1860.0	1	49	21.5	21.5	0.833	0.833	0.413	0.413	
				26365	1882.5	1	49	21.5	21.5	0.838	0.838	0.414	0.414	
						50	24	20.5	20.5	0.635	0.635	0.313	0.313	
				26590	1905.0	1	49	21.5	21.5	0.860	0.860	0.425	0.425	
			Front	26140	1860.0	1	49	21.5	21.5	0.843	0.843	0.394	0.394	
				26365	1882.5	1	49	21.5	21.5	0.845	0.845	0.385	0.385	
						50	24	20.5	20.5	0.588	0.588	0.274	0.274	
				26590	1905.0	1	49	21.5	21.5	0.885	0.885	0.412	0.412	
Hotspot	QPSK	5	Edge 1	26140	1860.0	1	49	21.5	21.5	0.874	0.874	0.385	0.385	
				26365	1882.5	1	49	21.5	21.5	0.850	0.850	0.373	0.373	
						50	24	20.5	20.5	0.644	0.644	0.285	0.285	
				26590	1905.0	1	49	21.5	21.5	0.821	0.821	0.356	0.356	
			Edge 2	26365	1882.5	1	49	21.5	21.5	0.062	0.062	0.034	0.034	
						50	24	20.5	20.5	0.036	0.036	0.020	0.020	
			Edge 4	26365	1882.5	1	49	21.5	21.5	0.510	0.510	0.277	0.277	
						50	24	20.5	20.5	0.376	0.376	0.206	0.206	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	26365	1882.5	1	49	24.0	24.0	0.433	0.433	0.286	0.286	
						50	24	23.0	23.0	0.368	0.368	0.241	0.241	
			Left Tilt	26365	1882.5	1	49	24.0	24.0	0.399	0.399	0.231	0.231	
						50	24	23.0	23.0	0.310	0.310	0.180	0.180	
			Right Touch	26140	1860.0	1	49	24.0	24.0	0.958	0.958	0.596	0.596	
				26365	1882.5	1	49	23.0	23.0	1.010	1.010	0.625	0.625	
				26590	1905.0	1	49	23.0	23.0	1.020	1.020	0.631	0.631	39
			Right Tilt	26365	1882.5	1	49	24.0	24.0	0.351	0.351	0.225	0.225	
						50	24	23.0	23.0	0.282	0.282	0.179	0.179	
						50	24	23.0	23.0	0.282	0.282	0.179	0.179	
Body-worn & Hotspot	QPSK	5	Rear	26140	1860.0	1	49	18.5	18.5	0.988	0.988	0.476	0.476	
				26365	1882.5	1	49	17.5	17.5	1.000	1.000	0.481	0.481	
				26590	1905.0	1	49	17.5	17.5	1.020	1.020	0.489	0.489	40
				26590	1905.0	1	49	17.5	17.5	0.988	0.988	0.476	0.476	
			Front	26140	1860.0	1	49	18.5	18.5	0.960	0.960	0.469	0.469	
				26365	1882.5	1	49	17.5	17.5	0.967	0.967	0.468	0.468	
				26590	1905.0	1	49	17.5	17.5	0.988	0.988	0.476	0.476	
				26590	1905.0	1	49	17.5	17.5	0.988	0.988	0.476	0.476	
			Edge 2	26365	1882.5	1	49	18.5	18.5	0.546	0.546	0.303	0.303	
						50	24	17.5	17.5	0.425	0.425	0.234	0.234	
Hotspot	QPSK	5	Edge 3	26140	1860.0	1	49	18.5	18.5	0.856	0.856	0.398	0.398	
				26365	1882.5	1	49	17.5	17.5	0.856	0.856	0.384	0.384	
				26590	1905.0	1	49	17.5	17.5	0.873	0.873	0.391	0.391	
				26590	1905.0	1	49	17.5	17.5	0.873	0.873	0.391	0.391	
			Edge 4	26365	1882.5	1	49	18.5	18.5	0.116	0.116	0.062	0.062	
						50	24	17.5	17.5	0.087	0.087	0.047	0.047	
			Edge 4	26365	1882.5	1	49	18.5	18.5	0.116	0.116	0.062	0.062	
						50	24	17.5	17.5	0.087	0.087	0.047	0.047	

10.18. LTE Band 26 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	26740	819.0	1	24	22.5	22.5	0.442	0.442	0.304	0.304	41
						25	12	21.5	21.5	0.388	0.388	0.259	0.259	
			Left Tilt	26740	819.0	1	24	22.5	22.5	0.274	0.274	0.155	0.155	
						25	12	21.5	21.5	0.217	0.217	0.124	0.124	
			Right Touch	26740	819.0	1	24	22.5	22.5	0.421	0.421	0.270	0.270	
						25	12	21.5	21.5	0.355	0.355	0.229	0.229	
			Right Tilt	26740	819.0	1	24	22.5	22.5	0.211	0.211	0.122	0.122	
						25	12	21.5	21.5	0.196	0.196	0.112	0.112	
Body-worn & Hotspot	QPSK	5	Rear	26740	819.0	1	24	22.5	22.5	0.187	0.187	0.118	0.118	
						25	12	21.5	21.5	0.151	0.151	0.095	0.095	
			Front	26740	819.0	1	24	22.5	22.5	0.169	0.169	0.106	0.106	
						25	12	21.5	21.5	0.142	0.142	0.089	0.089	
Hotspot	QPSK	5	Edge 1	26740	819.0	1	24	22.5	22.5	0.070	0.070	0.031	0.031	
						25	12	21.5	21.5	0.058	0.058	0.026	0.026	
			Edge 2	26740	819.0	1	24	22.5	22.5	0.189	0.189	0.125	0.125	
						25	12	21.5	21.5	0.157	0.157	0.104	0.104	
			Edge 4	26740	819.0	1	24	22.5	22.5	0.086	0.086	0.056	0.056	
						25	12	21.5	21.5	0.058	0.058	0.038	0.038	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	26740	819.0	1	24	24.0	24.0	0.293	0.293	0.227	0.227	
						25	12	23.0	23.0	0.239	0.239	0.185	0.185	
			Left Tilt	26740	819.0	1	24	24.0	24.0	0.158	0.158	0.123	0.123	
						25	12	23.0	23.0	0.126	0.126	0.098	0.098	
			Right Touch	26740	819.0	1	24	24.0	24.0	0.255	0.255	0.197	0.197	
						25	12	23.0	23.0	0.178	0.178	0.138	0.138	
			Right Tilt	26740	819.0	1	24	24.0	24.0	0.155	0.155	0.120	0.120	
						25	12	23.0	23.0	0.124	0.124	0.095	0.095	
Body-worn & Hotspot	QPSK	5	Rear	26740	819.0	1	24	24.0	24.0	0.507	0.507	0.334	0.334	
						25	12	23.0	23.0	0.386	0.386	0.236	0.236	
			Front	26740	819.0	1	24	24.0	24.0	0.585	0.585	0.330	0.330	42
						25	12	23.0	23.0	0.444	0.444	0.250	0.250	
Hotspot	QPSK	5	Edge 2	26740	819.0	1	24	24.0	24.0	0.283	0.283	0.185	0.185	
						25	12	23.0	23.0	0.176	0.176	0.116	0.116	
			Edge 3	26740	819.0	1	24	24.0	24.0	0.353	0.353	0.168	0.168	
						25	12	23.0	23.0	0.298	0.298	0.141	0.141	
			Edge 4	26740	819.0	1	24	24.0	24.0	0.614	0.614	0.406	0.406	43
						25	12	23.0	23.0	0.494	0.494	0.327	0.327	

10.19. LTE Band 27 (10MHz Bandwidth)

SAR for LTE Band 27 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.

10.20. LTE Band 30 (10MHz Bandwidth)**UAT**

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	27710	2310.0	1	24	16.5	16.5	0.356	0.356	0.150	0.150	
						25	12	15.5	15.5	0.286	0.286	0.119	0.119	
			Left Tilt	27710	2310.0	1	24	16.5	16.5	0.418	0.418	0.171	0.171	
						25	12	15.5	15.5	0.328	0.328	0.133	0.133	
			Right Touch	27710	2310.0	1	24	16.5	16.5	0.841	0.841	0.364	0.364	
						25	12	15.5	15.5	0.685	0.685	0.288	0.288	
			Right Tilt	27710	2310.0	1	24	16.5	16.5	0.963	0.963	0.375	0.375	44
						25	12	15.5	15.5	0.762	0.762	0.297	0.297	
Body-worn & Hotspot	QPSK	5	Rear	27710	2310.0	1	24	19.0	19.0	0.822	0.822	0.354	0.354	
						25	12	18.0	18.0	0.667	0.667	0.287	0.287	
			Front	27710	2310.0	1	24	19.0	19.0	0.824	0.824	0.332	0.332	
						25	12	18.0	18.0	0.751	0.751	0.300	0.300	
Hotspot	QPSK	5	Edge 1	27710	2310.0	1	24	19.0	19.0	0.737	0.737	0.266	0.266	
						25	12	18.0	18.0	0.642	0.642	0.231	0.231	
			Edge 2	27710	2310.0	1	24	19.0	19.0	0.318	0.318	0.157	0.157	
						25	12	18.0	18.0	0.244	0.244	0.120	0.120	
			Edge 4	27710	2310.0	1	24	19.0	19.0	0.422	0.422	0.194	0.194	
						25	12	18.0	18.0	0.345	0.345	0.157	0.157	

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RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	27710	2310.0	1	24	23.0	23.0	0.498	0.498	0.278	0.278	
						25	12	22.0	22.0	0.406	0.406	0.226	0.226	
			Left Tilt	27710	2310.0	1	24	23.0	23.0	0.216	0.216	0.109	0.109	
						25	12	22.0	22.0	0.171	0.171	0.087	0.087	
			Right Touch	27710	2310.0	1	24	23.0	23.0	0.322	0.322	0.188	0.188	
						25	12	22.0	22.0	0.255	0.255	0.148	0.148	
			Right Tilt	27710	2310.0	1	24	23.0	23.0	0.249	0.249	0.129	0.129	
						25	12	22.0	22.0	0.206	0.206	0.104	0.104	
Body-worn & Hotspot	QPSK	5	Rear	27710	2310.0	1	24	20.5	20.5	1.080	1.080	0.519	0.519	45
						25	12	19.5	19.5	0.873	0.873	0.423	0.423	
						50	0	19.5	19.5	0.834	0.834	0.405	0.405	
			Front	27710	2310.0	1	24	20.5	20.5	1.040	1.040	0.477	0.477	
						25	12	19.5	19.5	0.825	0.825	0.386	0.386	
						50	0	19.5	19.5	0.734	0.734	0.329	0.329	
Hotspot	QPSK	5	Edge 2	27710	2310.0	1	24	20.5	20.5	0.214	0.214	0.100	0.100	
						25	12	19.5	19.5	0.178	0.178	0.082	0.082	
			Edge 3	27710	2310.0	1	24	20.5	20.5	0.796	0.796	0.305	0.305	
						25	12	19.5	19.5	0.599	0.599	0.228	0.228	
			Edge 4	27710	2310.0	1	24	20.5	20.5	0.927	0.927	0.460	0.460	
						25	12	19.5	19.5	0.704	0.704	0.347	0.347	

10.21. LTE Band 41 (20MHz Bandwidth)

UAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	40620	2593.0	1	49	19.8	19.7	0.499	0.511	0.203	0.208	
						50	24	18.8	18.8	0.407	0.407	0.191	0.191	
			Left Tilt	40620	2593.0	1	49	19.8	19.7	0.577	0.590	0.266	0.272	
						50	24	18.8	18.8	0.455	0.455	0.181	0.181	
			Right Touch	39750	2506.0	1	49	19.8	19.7	0.691	0.707	0.315	0.322	
				40185	2549.5	1	49	19.8	19.7	0.889	0.910	0.393	0.402	46
				40620	2593.0	1	49	19.8	19.7	0.788	0.806	0.344	0.352	
						50	24	18.8	18.8	0.720	0.720	0.305	0.305	
				41055	2636.5	1	49	19.8	19.7	0.854	0.874	0.370	0.379	
				41490	2680.0	1	49	19.8	19.7	0.729	0.746	0.326	0.334	
			Right Tilt	40620	2593.0	1	49	19.8	19.7	0.775	0.793	0.313	0.320	
						50	24	18.8	18.8	0.524	0.524	0.260	0.260	
Body-worn & Hotspot	QPSK	5	Rear	39750	2506.0	1	49	21.5	21.5	0.687	0.687	0.346	0.346	
						50	24	20.5	20.5	0.641	0.641	0.264	0.264	
				40185	2549.5	1	49	21.5	21.5	0.964	0.964	0.399	0.399	
						50	24	20.5	20.5	0.810	0.810	0.329	0.329	
				40620	2593.0	1	49	21.5	21.5	0.960	0.960	0.407	0.407	
						50	24	20.5	20.5	0.885	0.885	0.355	0.355	
						100	0	20.5	20.5	0.878	0.878	0.354	0.354	
				41055	2636.5	1	49	21.5	21.5	0.959	0.959	0.402	0.402	
						50	24	20.5	20.5	0.827	0.827	0.328	0.328	
				41490	2680.0	1	49	21.5	21.5	0.943	0.943	0.368	0.368	
						50	24	20.5	20.5	0.864	0.864	0.324	0.324	
			Front	40620	2593.0	1	49	21.5	21.5	0.427	0.427	0.177	0.177	
						50	24	20.5	20.5	0.336	0.336	0.142	0.142	
Hotspot	QPSK	5	Edge 1	40620	2593.0	1	49	21.5	21.5	0.479	0.479	0.206	0.206	
						50	24	20.5	20.5	0.365	0.365	0.157	0.157	
			Edge 2	40620	2593.0	1	49	21.5	21.5	0.285	0.285	0.136	0.136	
						50	24	20.5	20.5	0.229	0.229	0.108	0.108	
			Edge 4	40620	2593.0	1	49	21.5	21.5	0.516	0.516	0.252	0.252	
						50	24	20.5	20.5	0.439	0.439	0.211	0.211	

LAT

RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
Head	QPSK	0	Left Touch	40620	2593.0	1	49	22.5	22.5	0.447	0.447	0.243	0.243	
						50	24	21.5	21.5	0.422	0.422	0.223	0.223	
			Left Tilt	40620	2593.0	1	49	22.5	22.5	0.122	0.122	0.056	0.056	
						50	24	21.5	21.5	0.094	0.094	0.042	0.042	
			Right Touch	40620	2593.0	1	49	22.5	22.5	0.269	0.269	0.146	0.146	
						50	24	21.5	21.5	0.202	0.202	0.108	0.108	
			Right Tilt	40620	2593.0	1	49	22.5	22.5	0.170	0.170	0.071	0.071	
						50	24	21.5	21.5	0.145	0.145	0.060	0.060	
Body-worn & Hotspot	QPSK	5	Rear	39750	2506.0	1	49	18.5	18.5	0.753	0.753	0.356	0.356	
				40185	2549.5	1	49	18.5	18.5	0.644	0.644	0.309	0.309	
				40620	2593.0	1	49	18.5	18.5	0.984	0.984	0.326	0.326	47
						50	24	17.5	17.5	0.599	0.599	0.188	0.188	
				41055	2636.5	1	49	18.5	18.5	0.728	0.728	0.245	0.245	
				41490	2680.0	1	49	18.5	18.5	0.734	0.734	0.232	0.232	
			Front	40620	2593.0	1	49	18.5	18.5	0.535	0.535	0.229	0.229	
						50	24	17.5	17.5	0.243	0.243	0.104	0.104	
Hotspot	QPSK	5	Edge 2	40620	2593.0	1	49	18.5	18.5	0.313	0.313	0.148	0.148	
						50	24	17.5	17.5	0.152	0.152	0.071	0.071	
			Edge 3	40620	2593.0	1	49	18.5	18.5	0.369	0.369	0.161	0.161	
						50	24	17.5	17.5	0.197	0.197	0.085	0.085	
			Edge 4	40620	2593.0	1	49	18.5	18.5	0.268	0.268	0.128	0.128	
						50	24	17.5	17.5	0.145	0.145	0.067	0.067	

10.22. Wi-Fi (DTS Band)

Cell On

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots			
								UAT		LAT			UAT				LAT							
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled					
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g				
2.4 GHz	Head	802.11b 20MHz	0	1 Tx	Left Touch	6	2437	14.5	14.5			0.364												
					Left Tilt	6	2437	14.5	14.5			0.375												
					Right Touch	6	2437	14.5	14.5			0.390												
					Right Tilt	6	2437	14.5	14.5			0.451	0.350	0.143	0.350	0.143								
					Left Touch	6	2437			18.5	18.5	0.138												
					Left Tilt	6	2437			18.5	18.5	0.108												
					Right Touch	6	2437			18.5	18.5	0.312					0.249	0.137	0.249	0.137				
					Right Tilt	6	2437			18.5	18.5	0.062												
		802.11g 20MHz	0	2 Tx	Left Touch	6	2437	14.5	14.5	18.5	18.5	0.352												
					Left Tilt	6	2437	14.5	14.5	18.5	18.5	0.357												
					Right Touch	6	2437	14.5	14.5	18.5	18.5	0.398												
					Right Tilt	6	2437	14.5	14.5	18.5	18.5	0.409	0.371	0.153	0.371	0.153								
	Body-worn & Hotspot	802.11b 20MHz	5	1 Tx	Rear	6	2437	15.5	15.5			0.450	0.331	0.132	0.331	0.132								
					Front	6	2437	15.5	15.5			0.357												
					Edge 1	6	2437	15.5	15.5			0.442												
					Edge 2	6	2437	15.5	15.5			0.330												
					Edge 4	6	2437	15.5	15.5			0.115												
					Rear	6	2437			14.0	14.0	0.302												
					Front	6	2437			14.0	14.0	0.303					0.209	0.101	0.209	0.101				
					Edge 2	6	2437			14.0	14.0	0.217												
					Edge 3	6	2437			14.0	14.0	0.131												
					Edge 4	6	2437			14.0	14.0	0.007												
		802.11g 20MHz	5	2 Tx	Rear	6	2437	15.5	15.5	14.0	14.0	0.508	0.382	0.155	0.382	0.155	0.229	0.122	0.229	0.122				
					Front	6	2437	15.5	15.5	14.0	14.0	0.340												
					Edge 1	6	2437	15.5	15.5	14.0	14.0	0.353												
					Edge 2	6	2437	15.5	15.5	14.0	14.0	0.345												
					Edge 3	6	2437	15.5	15.5	14.0	14.0	0.176												
					Edge 4	6	2437	15.5	15.5	14.0	14.0	0.096												

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

Cell Off

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots			
								UAT		LAT			UAT				LAT							
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled					
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g				
2.4 GHz	Head	802.11b 20MHz	0	1 Tx	Left Touch	6	2437	18.5	18.5			0.786	0.697	0.324	0.697	0.324								
					Left Tilt	6	2437	18.5	18.5			0.739												
					Right Touch	6	2437	18.5	18.5			0.787	0.854	0.341	0.854	0.341								
						11	2462	18.5	18.5				0.897	0.362	0.897	0.362								
					Right Tilt	6	2437	18.5	18.5			0.911	0.948	0.372	0.948	0.372								
						11	2462	18.5	18.5				0.972	0.380	0.972	0.380								
					Left Touch	6	2437			18.5	18.5	0.138												
					Left Tilt	6	2437			18.5	18.5	0.108												
		Right Touch	6	2437			18.5	18.5	0.312					0.249	0.137	0.249	0.137							
		Right Tilt	6	2437			18.5	18.5	0.062															
		802.11g 20MHz	0	2 Tx	Left Touch	6	2437	18.5	18.5	18.5	18.5	0.826	0.654	0.317	0.654	0.317								
					Left Tilt	6	2437	18.5	18.5	18.5	18.5	0.780												
					Right Touch	6	2437	18.5	18.5	18.5	18.5	0.890	0.940	0.380	0.940	0.380								
						9	2452	18.5	18.5	18.5	18.5		0.990	0.404	0.990	0.404					48			
					Right Tilt	6	2437	18.5	18.5	18.5	18.5	0.827	0.959	0.384	0.959	0.384								
						9	2452	18.5	18.5	18.5	18.5		0.939	0.381	0.939	0.381								
	Body-worn & Hotspot				802.11b 20MHz	5	1 Tx	Rear	6	2437	18.5	18.5			1.200	0.865	0.417	0.865	0.417					
									11	2462	18.5	18.5				0.905	0.368	0.905	0.368					49
		Front	6	2437				18.5	18.5			0.812	0.840	0.336	0.840	0.336								
			11	2462				18.5	18.5				0.770	0.311	0.770	0.311								
		Edge 1	6	2437				18.5	18.5			0.664	0.425	0.142	0.425	0.142								
		Edge 2	6	2437				18.5	18.5			0.312												
		Edge 4	6	2437				18.5	18.5			0.279												
		Rear	6	2437						18.5	18.5	0.603												
		Front	6	2437						18.5	18.5	0.891					0.668	0.340	0.668	0.340				
		Edge 2	6	2437						18.5	18.5	0.684					0.488	0.236	0.488	0.236				
		Edge 3	6	2437						18.5	18.5	0.340												
		Edge 4	6	2437						18.5	18.5	0.021												
		802.11g 20MHz	5	2 Tx	Rear	6	2437	18.5	18.5	18.5	18.5	0.838	0.533	0.270	0.533	0.270	0.679	0.360	0.679	0.360				
					Front	6	2437	18.5	18.5	18.5	18.5	0.999	0.719	0.375	0.719	0.375	0.673	0.271	0.673	0.271				
					Edge 1	6	2437	18.5	18.5	18.5	18.5	0.710												
					Edge 2	6	2437	18.5	18.5	18.5	18.5	0.813												
					Edge 3	6	2437	18.5	18.5	18.5	18.5	0.346												
					Edge 4	6	2437	18.5	18.5	18.5	18.5	0.236												

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

10.23. Wi-Fi (U-NII-1 and U-NII-2A Band)

Cell On

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots
								UAT		LAT			UAT				LAT				
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled		
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3 GHz	Head	802.11ac VHT80 CDD	0	1 Tx	Left Touch	58	5290	10.0	10.0			0.241									
					Left Tilt	58	5290	10.0	10.0			0.241									
					Right Touch	58	5290	10.0	10.0			0.672	0.322	0.073	0.322	0.073					
					Right Tilt	58	5290	10.0	10.0			0.450									
		802.11a	0	1 Tx	Left Touch	60	5300			19.5	19.5	0.339									
					Left Tilt	60	5300			19.5	19.5	0.002									
					Right Touch	60	5300			19.5	19.5	0.381				0.221	0.094	0.221	0.094		
					Right Tilt	60	5300			19.5	19.5	0.121									
		802.11n HT40 CDD	0	2 Tx	Left Touch	54	5270	10.0	10.0	18.0	18.0	0.304									
					Left Tilt	54	5270	10.0	10.0	18.0	18.0	0.279									
					Right Touch	54	5270	10.0	10.0	18.0	18.0	0.644	0.390	0.084	0.390	0.084					
					Right Tilt	54	5270	10.0	10.0	18.0	18.0	0.483									
5.3 GHz	Body-worn & Airplay	802.11ac VHT80 CDD	5	1 Tx	Rear	58	5290	14.3	14.3			0.909	0.330	0.086	0.330	0.086					
					Front	58	5290	14.3	14.3			0.496									
					Edge 1	58	5290	14.3	14.3			0.110									
					Edge 2	58	5290	14.3	14.3			0.004									
					Edge 4	58	5290	14.3	14.3			0.385									
5.2 GHz		802.11ac VHT80 CDD	5	1 Tx	Rear	42	5210			11.0	11.0	0.054									
					Front	42	5210			11.0	11.0	0.647				0.232	0.064	0.232	0.064		
					Edge 2	42	5210			11.0	11.0	0.078									
					Edge 3	42	5210			11.0	11.0	0.058									
					Edge 4	42	5210			11.0	11.0	0.016									
5.3 GHz		802.11n HT40 CDD	5	2 Tx	Rear	62	5310	14.3	14.3	10.5	10.5	0.588	0.346	0.099	0.346	0.099					
					Front	62	5310	14.3	14.3	10.5	10.5	0.579									
					Edge 1	62	5310	14.3	14.3	10.5	10.5	0.104									
					Edge 2	62	5310	14.3	14.3	10.5	10.5	0.053									
					Edge 3	62	5310	14.3	14.3	10.5	10.5	0.069									
					Edge 4	62	5310	14.3	14.3	10.5	10.5	0.389									

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

Cell Off

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots
								UAT		LAT			UAT				LAT				
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled		
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3 GHz	Head	802.11ac VHT80 CDD	0	1 Tx	Left Touch	58	5290	14.0	14.0			0.622									
					Left Tilt	58	5290	14.0	14.0			0.697	0.412	0.117	0.412	0.117					
					Right Touch	58	5290	14.0	14.0			1.900	0.969	0.219	0.969	0.219					
					Right Tilt	58	5290	14.0	14.0			1.140	0.809	0.189	0.809	0.189					
		802.11a	0	1 Tx	Left Touch	60	5300			19.5	19.5	0.339									
					Left Tilt	60	5300			19.5	19.5	0.002									
					Right Touch	60	5300			19.5	19.5	0.381					0.221	0.094	0.221	0.094	
					Right Tilt	60	5300			19.5	19.5	0.121									
		802.11n HT40 CDD	0	2 Tx	Left Touch	54	5270	14.0	14.0	18.0	18.0	0.634									
					Left Tilt	54	5270	14.0	14.0	18.0	18.0	0.663	0.451	0.136	0.451	0.136					
					Right Touch	54	5270	14.0	14.0	18.0	18.0	1.340	0.980	0.217	0.980	0.217				50	
						62	5310	14.0	14.0	14.5	14.5		0.953	0.208	0.953	0.208					
					Right Tilt	54	5270	14.0	14.0	18.0	18.0	1.530	0.824	0.198	0.824	0.198					
						62	5310	14.0	14.0	14.5	14.5	1.110	0.779	0.180	0.779	0.180					
5.3 GHz	Body-worn & Airplay	802.11a	5	1 Tx	Rear	56	5280	18.5	18.5				0.933	0.243	0.933	0.243					
						60	5300	18.5	18.5			2.100	0.929	0.253	0.929	0.253					
					Front	60	5300	18.5	18.5			1.530	0.776	0.201	0.776	0.201					
					Edge 1	60	5300	18.5	18.5			0.364									
					Edge 2	60	5300	18.5	18.5			0.026									
					Edge 4	60	5300	18.5	18.5			1.080									
5.2 GHz		802.11a	5	1 Tx	Rear	44	5220			17.8	17.8	0.374					0.234	0.061	0.234	0.061	
					Front	40	5200			17.8	17.8						1.010	0.295	1.010	0.295	
						44	5220			17.8	17.8	1.850					0.875	0.277	0.875	0.277	
					Edge 2	44	5220			17.8	17.8	0.366									
					Edge 3	44	5220			17.8	17.8	0.373									
					Edge 4	44	5220			17.8	17.8	0.096									
5.3 GHz		802.11n HT40 CDD	5	2 Tx	Rear	54	5270	18.0	18.0	17.3	17.3	1.320	0.946	0.257	0.946	0.257					
						62	5310	14.5	14.5	14.5	14.5		0.388	0.109	0.388	0.109					
					Front	54	5270	18.0	18.0	17.3	17.3	1.840	0.722	0.194	0.722	0.194	1.050	0.306	1.050	0.306	51
						62	5310	14.5	14.5	14.5	14.5						0.711	0.197	0.711	0.197	
					Edge 1	54	5270	18.0	18.0	17.3	17.3	0.328									
					Edge 2	54	5270	18.0	18.0	17.3	17.3	0.290									
					Edge 3	54	5270	18.0	18.0	17.3	17.3	0.378									
					Edge 4	54	5270	18.0	18.0	17.3	17.3	0.810	0.471	0.157	0.471	0.157					

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

10.24. Wi-Fi (U-NII-2C Band)

Cell On

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Pow er (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots
								UAT		LAT			UAT				LAT				
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled		
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.6 GHz	Head	802.11ac VHT80 CDD	0	1 Tx	Left Touch	122	5610	10.5	10.5			0.264									
					Left Tilt	122	5610	10.5	10.5			0.266									
					Right Touch	122	5610	10.5	10.5			0.362	0.224	0.046	0.224	0.046					
					Right Tilt	122	5610	10.5	10.5			0.308									
		802.11ac VHT80 CDD	0	1 Tx	Left Touch	138	5690			18.5	18.5	0.253									
					Left Tilt	138	5690			18.5	18.5	0.068									
					Right Touch	138	5690			18.5	18.5	0.266				0.130	0.050	0.130	0.050		
					Right Tilt	138	5690			18.5	18.5	0.080									
		802.11ac VHT80 CDD	0	2 Tx	Left Touch	138	5690	10.5	10.5	18.5	18.5	0.318									
					Left Tilt	138	5690	10.5	10.5	18.5	18.5	0.349									
					Right Touch	138	5690	10.5	10.5	18.5	18.5	0.657	0.357	0.079	0.357	0.079					
					Right Tilt	138	5690	10.5	10.5	18.5	18.5	0.370									
5.6 GHz	Body-worn & Airplay	802.11ac VHT80	5	1 Tx	Rear	122	5610	15.1	15.1			0.497									
					Front	122	5610	15.1	15.1			0.778	0.392	0.096	0.392	0.096					
					Edge 1	122	5610	15.1	15.1			0.137									
					Edge 2	122	5610	15.1	15.1			0.012									
					Edge 4	122	5610	15.1	15.1			0.294									
		802.11ac VHT80	5	1 Tx	Rear	138	5690			10.5	10.5	0.038									
					Front	138	5690			10.5	10.5	0.624				0.248	0.060	0.248	0.060		
					Edge 2	138	5690			10.5	10.5	0.039									
					Edge 3	138	5690			10.5	10.5	0.087									
					Edge 4	138	5690			10.5	10.5	0.019									
		802.11ac VHT80	5	2 Tx	Rear	138	5690	15.1	15.1	10.5	10.5	0.405	0.233	0.060	0.233	0.060					
					Front	138	5690	15.1	15.1	10.5	10.5	0.136									
					Edge 1	138	5690	15.1	15.1	10.5	10.5	0.245									
					Edge 2	138	5690	15.1	15.1	10.5	10.5	0.033									
					Edge 3	138	5690	15.1	15.1	10.5	10.5	0.028									
					Edge 4	138	5690	15.1	15.1	10.5	10.5	0.383									

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

Cell Off

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots
								UAT		LAT			UAT				LAT				
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled		
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.6 GHz	Head	802.11ac VHT80 CDD	0	1 Tx	Left Touch	122	5610	14.5	14.5			0.852	0.522	0.151	0.522	0.151					52
					Left Tilt	122	5610	14.5	14.5			0.600									
					Right Touch	122	5610	14.5	14.5			2.240	0.954	0.230	0.954	0.230					
						138	5690	14.5	14.5				0.957	0.222	0.957	0.222					
					Right Tilt	122	5610	14.5	14.5			1.900	0.849	0.205	0.849	0.205					
						138	5690	14.5	14.5				0.885	0.206	0.885	0.206					
		802.11a	0	1 Tx	Left Touch	120	5600			19.5	19.5	0.377									
					Left Tilt	120	5600			19.5	19.5	0.067									
					Right Touch	120	5600			19.5	19.5	0.418					0.247	0.105	0.247	0.105	
					Right Tilt	120	5600			19.5	19.5	0.072									
		802.11ac VHT80 CDD	0	2 Tx	Left Touch	138	5690	14.5	14.5	19.0	19.0	0.892	0.490	0.141	0.490	0.141					
					Left Tilt	138	5690	14.5	14.5	19.0	19.0	0.869									
					Right Touch	122	5610	14.5	14.5	16.0	16.0		0.884	0.199	0.884	0.199					
						138	5690	14.5	14.5	19.0	19.0	2.640	0.859	0.139	0.859	0.139					
					Right Tilt	122	5610	14.5	14.5	16.0	16.0		0.816	0.190	0.816	0.190					
						138	5690	14.5	14.5	19.0	19.0	1.910	0.942	0.208	0.942	0.208					
5.6 GHz	Body-worn & Airplay	802.11ac VHT80	5	1 Tx	Rear	138	5690	18.5	18.0			1.070	0.709	0.186	0.796	0.209					
					Front	138	5690	18.5	18.0			1.980	0.878	0.231	0.985	0.259					
					Edge 1	138	5690	18.5	18.0			0.496									
					Edge 2	138	5690	18.5	18.0			0.042									
					Edge 4	138	5690	18.5	18.0			0.640									
		802.11ac VHT80	5	1 Tx	Rear	138	5690			17.3	17.3	0.190									
					Front	122	5610			17.0	17.0	2.370					1.070	0.282	1.070	0.282	
						138	5690			17.3	17.3	2.320					0.948	0.247	0.948	0.247	
					Edge 2	122	5610			17.0	17.0										
						138	5690			17.3	17.3	0.230					0.166	0.052	0.166	0.052	
					Edge 3	122	5610			17.0	17.0										
						138	5690			17.3	17.3	0.163									
					Edge 4	122	5610			17.0	17.0										
						138	5690			17.3	17.3	0.100									
		802.11ac VHT80	5	2 Tx	Rear	122	5610	16.0	16.0	16.0	16.0		0.395	0.103	0.395	0.103					
						138	5690	18.5	18.5	17.3	17.3	1.480	0.805	0.223	0.805	0.223					
					Front	122	5610	16.0	16.0	16.0	16.0		0.535	0.132	0.535	0.132	0.880	0.218	0.880	0.218	
						138	5690	18.5	18.5	17.3	17.3	2.490	0.903	0.232	0.903	0.232	1.120	0.297	1.120	0.297	
					Edge 1	138	5690	18.5	18.5	17.3	17.3	0.800									
					Edge 2	138	5690	18.5	18.5	17.3	17.3	0.200									
					Edge 3	138	5690	18.5	18.5	17.3	17.3	0.301									
					Edge 4	138	5690	18.5	18.5	17.3	17.3	0.857	0.416	0.120	0.416	0.120					

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

10.25. Wi-Fi (U-NII-3 Band)

Cell On

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan	SAR (W/kg)								Plots	
								UAT		LAT			Measured Peak	UAT				LAT				
								Tune-up Limit	Measured	Tune-up Limit	Measured			Measured		Scaled		Measured		Scaled		
								1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g							
5.8 GHz	Head	802.11ac VHT80	0	1 Tx	Left Touch	155	5775	10.0	10.0			0.302										
					Left Tilt	155	5775	10.0	10.0			0.259										
					Right Touch	155	5775	10.0	10.0			0.785	0.360	0.063	0.360	0.063						
					Right Tilt	155	5775	10.0	10.0			0.634										
		802.11a	0	1 Tx	Left Touch	157	5785			19.5	19.5	0.378										
					Left Tilt	157	5785			19.5	19.5	0.100										
					Right Touch	157	5785			19.5	19.5	0.383					0.221	0.084	0.221	0.084		
					Right Tilt	157	5785			19.5	19.5	0.093										
		802.11a	0	2 Tx	Left Touch	157	5785	10.0	10.0	19.5	19.5	0.745										
					Left Tilt	157	5785	10.0	10.0	19.5	19.5	0.368										
					Right Touch	157	5785	10.0	10.0	19.5	19.5	0.782	0.346	0.068	0.346	0.068						
					Right Tilt	157	5785	10.0	10.0	19.5	19.5	0.566										
5.8 GHz	Body-worn & Airplay	802.11n HT40	5	1 Tx	Rear	159	5795	17.2	17.2			0.598										
					Front	159	5795	17.2	17.2			0.687	0.343	0.070	0.343	0.070						
					Edge 1	159	5795	17.2	17.2			0.418										
					Edge 2	159	5795	17.2	17.2			0.019										
					Edge 4	159	5795	17.2	17.2			0.674										
		802.11ac VHT80	5	1 Tx	Rear	155	5775			10.5	10.5	0.066										
					Front	155	5775			10.5	10.5	0.346					0.210	0.041	0.210	0.041		
					Edge 2	155	5775			10.5	10.5	0.061										
					Edge 3	155	5775			10.5	10.5	0.097										
					Edge 4	155	5775			10.5	10.5	0.017										
		802.11a	5	2 Tx	Rear	157	5785	17.2	17.2	10.5	10.5	0.723										
					Front	157	5785	17.2	17.2	10.5	10.5	0.966	0.367	0.090	0.367	0.090						
					Edge 1	157	5785	17.2	17.2	10.5	10.5	0.370										
					Edge 2	157	5785	17.2	17.2	10.5	10.5	0.028										
					Edge 3	157	5785	17.2	17.2	10.5	10.5	0.074										
					Edge 4	157	5785	17.2	17.2	10.5	10.5	0.544										

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

Cell Off

Band	RF Exposure	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				Area Scan Measured Peak	SAR (W/kg)								Plots	
								UAT		LAT			UAT				LAT					
								Tune-up Limit	Measured	Tune-up Limit	Measured		Measured		Scaled		Measured		Scaled			
													1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
5.8 GHz	Head	802.11ac VHT80	0	1 Tx	Left Touch	155	5775	14.0	14.0			0.548										
					Left Tilt	155	5775	14.0	14.0			0.516										
					Right Touch	155	5775	14.0	14.0			2.050	0.991	0.191	0.991	0.191					54	
					Right Tilt	155	5775	14.0	14.0			1.540	0.758	0.145	0.758	0.145						
		802.11a	0	1 Tx	Left Touch	157	5785			19.5	19.5	0.378										
					Left Tilt	157	5785			19.5	19.5	0.100										
					Right Touch	157	5785			19.5	19.5	0.383					0.221	0.084	0.221	0.084		
					Right Tilt	157	5785			19.5	19.5	0.093										
		802.11a	0	2 Tx	Left Touch	157	5785	14.0	14.0	19.5	19.5	1.100	0.345	0.085	0.345	0.085						
					Left Tilt	157	5785	14.0	14.0	19.5	19.5	0.941										
					Right Touch	157	5785	14.0	14.0	19.5	19.5	2.270	0.946	0.184	0.946	0.184						
						161	5805	14.0	14.0	19.5	19.5		0.855	0.172	0.855	0.172						
					Right Tilt	157	5785	14.0	14.0	19.5	19.5	1.840	0.829	0.171	0.829	0.171						
						161	5805	14.0	14.0	19.5	19.5		0.834	0.172	0.834	0.172						
5.8 GHz	Body-worn & Airplay	802.11a	5	1 Tx	Rear	157	5785	19.0	19.0			0.853	0.509	0.148	0.509	0.148						
					Front	157	5785	19.0	19.0			1.790	0.811	0.195	0.811	0.195						
						161	5805	19.0	19.0				0.654	0.160	0.654	0.160						
					Edge 1	157	5785	19.0	19.0			0.564										
					Edge 2	157	5785	19.0	19.0			0.090										
		802.11n HT40	5	1 Tx	Edge 4	157	5785	19.0	19.0			0.650										
					Rear	159	5795			17.3	17.3	0.217										
					Front	151	5755			15.0	15.0						0.616	0.161	0.616	0.161		
						159	5795			17.3	17.3	1.920					1.000	0.271	1.000	0.271		
					Edge 2	159	5795			17.3	17.3	0.230										
		802.11a	5	2 Tx	Edge 3	159	5795			17.3	17.3	0.333					0.185	0.057	0.185	0.057		
					Edge 4	159	5795			17.3	17.3	0.135										
					Rear	157	5785	19.0	19.0	17.3	17.3	0.903	0.431	0.134	0.431	0.134						
						157	5785	19.0	19.0	17.3	17.3	1.830	0.855	0.205	0.855	0.205	1.070	0.269	1.070	0.269	55	
						161	5805	19.0	19.0	17.3	17.3		0.966	0.231	0.966	0.231	0.959	0.244	0.959	0.244		
		Edge 1	157	5785	19.0	19.0	17.3	17.3	0.690													
		Edge 2	157	5785	19.0	19.0	17.3	17.3	0.200													
		Edge 3	157	5785	19.0	19.0	17.3	17.3	0.175													
		Edge 4	157	5785	19.0	19.0	17.3	17.3	1.110													

Notes:

For some of the 2Tx measurements, there is no additional zoom scans due to secondary peak not being within 2dB of maximum peak.

10.26. Wi-Fi Murata Spot Check

Band	Mode	Dist. (mm)	No. of Transmitters	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
							UAT		LAT		UAT				LAT				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
2.4 GHz	802.11g 20MHz	0	2 Tx	Right Touch	9	2452	18.5	18.5	18.5	18.5	0.982	0.395	0.982	0.395					
	802.11b 20MHz	5	1 Tx	Rear	11	2462	18.5	18.5			0.763	0.306	0.763	0.306					
5.3 GHz	802.11n HT40 CDD	0	2 Tx	Right Touch	54	5270	14.0	14.0	18.0	18.0	0.963	0.221	0.963	0.221					
	802.11n HT40 CDD	5	2 Tx	Front	54	5270	18.0	18.0	17.3	17.3	0.624	0.176	0.624	0.176	0.982	0.288	0.982	0.288	
5.6 GHz	802.11ac VHT80 CDD	0	1 Tx	Right Touch	138	5690	14.5	14.5			0.847	0.181	0.847	0.181					
	802.11ac VHT80	5	2 Tx	Front	138	5690	18.5	18.5	17.3	17.3	0.803	0.205	0.803	0.205	1.070	0.268	1.070	0.268	
5.8 GHz	802.11ac VHT80	0	1 Tx	Right Touch	155	5775	14.0	14.0			0.922	0.190	0.922	0.190					
	802.11a	5	2 Tx	Front	157	5785	19.0	19.0	17.3	17.3	0.854	0.193	0.854	0.193	0.981	0.245	0.981	0.245	

10.27. Bluetooth

P_{high}

Frequency Band	RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
2.4 GHz	Head	GFSK	0	Left Touch	39	2441.0	16.5	16.5	0.368	0.368	0.170	0.170	
				Left Tilt	39	2441.0	16.5	16.5	0.359	0.359	0.142	0.142	
				Right Touch	39	2441.0	16.5	16.5	0.449	0.449	0.178	0.178	56
				Right Tilt	39	2441.0	16.5	16.5	0.395	0.395	0.156	0.156	
	Body-worn	GFSK	5	Rear	39	2441.0	16.5	16.5	0.290	0.290	0.120	0.120	
				Front	39	2441.0	16.5	16.5	0.376	0.376	0.149	0.149	57

P_{low}

Frequency Band	RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
2.4 GHz	Head	GFSK	0	Left Touch	39	2441.0	10.5	10.5	0.042	0.042	0.016	0.016	
				Left Tilt	39	2441.0	10.5	10.5	0.046	0.046	0.017	0.017	
				Right Touch	39	2441.0	10.5	10.5	0.046	0.046	0.017	0.017	
				Right Tilt	39	2441.0	10.5	10.5	0.037	0.037	0.013	0.013	
	Body-worn	GFSK	5	Rear	39	2441.0	10.5	10.5	0.048	0.048	0.019	0.019	
				Front	39	2441.0	10.5	10.5	0.047	0.047	0.018	0.018	

10.28. Non LTE Band 30 Model Spot Check

Testing for Model A1688 was performed on a spot check basis for the worst-case positions established from model A1633 as well as highest power levels.

Band	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Ant.	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)	
							Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled
GSM 850	GPRS 2 Slots	5	Front	251	848.8	LAT	32.5	32.5	1.030	1.030	0.563	0.563
GSM 1900	GPRS 2 Slots	5	Rear	512	1850.2	LAT	24.7	24.2	0.885	0.993	0.431	0.484
W-CDMA V	Rel 99 RMC 12.2 kbps	5	Front	4183	836.6	LAT	25.0	25.0	0.881	0.881	0.482	0.482
W-CDMA IV	Rel 99 RMC 12.2 kbps	5	Edge 3	1513	1752.6	LAT	19.5	19.5	1.060	1.060	0.508	0.508
W-CDMA II	Rel 99 RMC 12.2 kbps	5	Rear	9400	1880.0	LAT	18.5	18.5	1.040	1.040	0.500	0.500
CDMA BC0	1xRTT (RC3 SO32)	5	Rear	384	836.5	LAT	25.0	25.0	0.931	0.931	0.566	0.566
CDMA BC1	1xRTT (RC3 SO55)	0	Right Touch	25	1851.3	LAT	25.0	25.0	1.130	1.130	0.703	0.703
CDMA BC10	1xRTT (RC3 SO32)	5	Front	684	823.1	LAT	25.0	25.0	1.030	1.030	0.590	0.590
CDMA BC15	1xRTT (RC3 SO32)	5	Rear	875	1753.8	LAT	19.5	19.5	0.938	0.938	0.458	0.458
LTE Band 2 (20 MHz)	QPSK RB 1/49	5	Rear	19100	1900.0	LAT	18.5	18.5	1.070	1.070	0.508	0.508
LTE Band 4 (20 MHz)	QPSK RB 1/49	5	Edge 3	20300	1745.0	LAT	19.5	19.5	0.922	0.922	0.447	0.447
LTE Band 7 (20 MHz)	QPSK RB 1/49	5	Rear	21100	2535.0	LAT	17.5	17.5	1.100	1.100	0.503	0.503
LTE Band 25 (20 MHz)	QPSK RB 1/49	0	Right Touch	26590	1905.0	LAT	24.0	24.0	0.992	0.992	0.602	0.602
LTE Band 41 (20 MHz)	QPSK RB 1/49	5	Rear	40620	2593.0	LAT	18.5	18.5	0.979	0.979	0.321	0.321
2.4 GHz (MIMO)	802.11g 20 MHz	0	Right Touch	9	2452.0	UAT	18.5	18.5	0.987	0.987	0.394	0.394
						LAT	18.5	18.5				
5.3 GHz (MIMO)	802.11n HT40	5	Front	54	5270.0	UAT	18.0	18.0	0.658	0.658	0.173	0.173
						LAT	17.3	17.3	1.010	1.010	0.290	0.290
5.5 GHz (MIMO)	802.11ac VHT80	5	Front	138	5690.0	UAT	18.5	18.5	0.874	0.874	0.211	0.211
						LAT	17.3	17.3	1.020	1.020	0.271	0.271
5.8 GHz (MIMO)	802.11a	5	Front	157	5785.0	UAT	19.0	19.0	0.792	0.792	0.187	0.187
						LAT	17.3	17.3	0.943	0.943	0.251	0.251

Band	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Ant.	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)	
							Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled
GSM 850	Voice	0	Left Touch	190	836.6	LAT	33.5	33.4	0.298	0.305	0.227	0.232
GSM 850	GPRS 2 Slots	0	Left Touch	190	836.6	LAT	32.5	32.5	0.563	0.563	0.426	0.426
GSM 1900	Voice	0	Right Touch	661	1880.0	LAT	30.5	30.5	0.442	0.442	0.272	0.272
GSM 1900	GPRS 2 Slots	0	Right Touch	512	1880.0	LAT	29.5	29.0	0.771	0.865	0.482	0.541
W-CDMA IV	Rel 99 RMC 12.2 kbps	0	Right Touch	1413	1732.6	LAT	25.4	25.0	0.548	0.601	0.357	0.391
W-CDMA II	Rel 99 RMC 12.2 kbps	0	Right Touch	9538	1907.6	LAT	25.0	25.0	0.897	0.897	0.550	0.550
CDMA BC15	1xRTT (RC3 SO55)	0	Right Touch	450	1732.5	LAT	25.0	25.0	0.742	0.742	0.467	0.467
LTE Band 2 (20 MHz)	QPSK RB 1/49	0	Right Touch	19100	1900.0	LAT	24.0	24.0	0.875	0.875	0.537	0.537
LTE Band 4 (20 MHz)	QPSK RB 1/49	0	Right Touch	20175	1732.5	LAT	24.0	24.0	0.413	0.413	0.270	0.270
LTE Band 5 (10 MHz)	QPSK RB 1/24	5	Edge 4	20525	836.5	LAT	24.0	23.5	0.662	0.743	0.429	0.481
LTE Band 7 (20 MHz)	QPSK RB 1/49	0	Left Touch	21100	2535.0	LAT	22.0	22.0	0.855	0.855	0.465	0.465
LTE Band 12 (10 MHz)	QPSK RB 1/24	0	Left Touch	23095	707.5	UAT	23.0	23.0	0.557	0.557	0.385	0.385
LTE Band 12 (10 MHz)	QPSK RB 1/24	5	Edge 4	23095	707.5	LAT	24.0	24.0	0.516	0.516	0.345	0.345
LTE Band 13 (10 MHz)	QPSK RB 1/24	0	Left Touch	23230	782.0	UAT	23.0	23.0	0.663	0.663	0.436	0.436
LTE Band 13 (10 MHz)	QPSK RB 1/24	5	Edge 4	23230	782.0	LAT	24.0	24.0	0.736	0.736	0.485	0.485
LTE Band 17 (10 MHz)	QPSK RB 1/24	0	Left Touch	23790	710.0	UAT	23.0	23.0	0.616	0.616	0.457	0.457
LTE Band 17 (10 MHz)	QPSK RB 1/24	5	Front	23790	710.0	LAT	24.0	24.0	0.534	0.534	0.300	0.300
LTE Band 26 (10 MHz)	QPSK RB 1/24	5	Edge 4	26740	819.0	LAT	24.0	24.0	0.606	0.606	0.402	0.402
LTE Band 41 (20 MHz)	QPSK RB 1/49	0	Left Touch	40620	2593.0	LAT	22.5	22.5	0.378	0.378	0.208	0.208

11. SAR Measurement Variability

In accordance with published RF Exposure KDB 865664 D01 SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 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 .

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
700	LTE Band 12	Body	Edge 4	No	0.569	N/A	N/A
	LTE Band 13	Body	Edge 4	No	0.744	N/A	N/A
	LTE Band 17	Head	Left Touch	No	0.678	N/A	N/A
850	GSM 850	Body	Front	No	1.06	N/A	N/A
	CDMA BC0	Body	Rear	No	0.996	N/A	N/A
	CDMA BC10	Body	Front	Yes	1.10	1.05	1.05
	WCDMA Band V	Body	Front	No	0.951	N/A	N/A
	LTE Band 5	Body	Edge 4	No	0.785	N/A	N/A
	LTE Band 26	Body	Edge 4	No	0.614	N/A	N/A
1750	CDMA BC15	Body	Rear	No	0.982	N/A	N/A
	WCDMA Band IV	Body	Edge 3	Yes	1.11	1.10	1.01
	LTE Band 4	Body	Edge 3	No	1.03	N/A	N/A
1900	GSM 1900	Head	Right Touch	No	0.983	N/A	N/A
	CDMA BC1	Head	Right Touch	Yes	1.14	1.13	1.01
	WCDMA Band II	Body	Rear	No	1.14	N/A	N/A
	LTE Band 2	Body	Rear	No	1.11	N/A	N/A
	LTE Band 25	Head	Right Touch	No	1.02	N/A	N/A
2300	LTE Band 30	Body	Rear	Yes	1.08	1.02	1.06
2400	Wi-Fi 802.11b/g/n	Head	Right Touch	Yes	0.990	0.943	1.05
2600	LTE Band 7	Body	Rear	Yes	1.14	1.11	1.03
	LTE Band 41	Body	Rear	No	0.984	N/A	N/A
5300	Wi-Fi 802.11a/n/ac	Body	Front	Yes	1.05	1.05	1.00
5500	Wi-Fi 802.11a/n/ac	Body	Front	Yes	1.12	1.04	1.08
5800	Wi-Fi 802.11a/n/ac	Body	Front	Yes	1.07	0.939	1.14

Note(s):

Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 .

12. Simultaneous Transmission SAR Analysis

KDB 447498 D01 General RF Exposure Guidance introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR₁ is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri < 0.04$$

Simultaneous Transmission Condition

RF Exposure Condition	Item	Capable Transmit Configurations			
Head	1	WWAN OFF	+ LAT Wi-Fi 2.4 GHz SISO	+ Bluetooth (P _{high})	
	2		+ UAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{high})	
	3		+ LAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{high})	
	4		+ Wi-Fi 5 GHz MIMO	+ Bluetooth (P _{high})	
	5		+ LAT Wi-Fi 2.4 GHz SISO	+ Bluetooth (P _{low})	
	6		+ UAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{low})	
	7		+ LAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{low})	
	8		+ Wi-Fi 5 GHz MIMO	+ Bluetooth (P _{low})	
Body Worn Accessory	9	WWAN ON	+ UAT Wi-Fi 2.4 GHz SISO		
Hotspot	10		+ LAT Wi-Fi 2.4 GHz SISO		
	11		+ Wi-Fi 2.4 GHz MIMO		
Airplay	12		+ Bluetooth (P _{low})		
	13		+ LAT Wi-Fi 2.4 GHz SISO	+ Bluetooth (P _{low})	
	14		+ UAT Wi-Fi 5 GHz SISO		
	15		+ LAT Wi-Fi 5 GHz SISO		
	16		+ Wi-Fi 5 GHz MIMO		
	17		+ UAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{low})	
	18		+ LAT Wi-Fi 5 GHz SISO	+ Bluetooth (P _{low})	
	19		+ Wi-Fi 5 GHz MIMO	+ Bluetooth (P _{low})	
Notes:					
1. UAT Wi-Fi 2.4GHz Radio cannot transmit simultaneously w with Bluetooth Radio.					

12.1. Sum of the SAR for Wi-Fi (Cell Off) & BT(P_{high})

RF Exposure Conditions	Test Position	① Wi-Fi 2.4GHz (LAT)	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{high})	① + ⑤		② + ⑤		③ + ⑤		④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.249	0.522	0.247	0.490	0.368	0.617	No	0.890	No	0.615	No	0.858	No
	Left Tilt	0.249	0.412	0.247	0.451	0.359	0.608	No	0.771	No	0.606	No	0.810	No
	Right Touch	0.249	0.991	0.247	0.980	0.449	0.698	No	1440	No	0.696	No	1429	No
	Right Tilt	0.249	0.885	0.247	0.942	0.395	0.644	No	1280	No	0.642	No	1337	No
Body-worn	Rear	0.668	0.933	0.234	0.946	0.290	0.958	No	1223	No	0.524	No	1236	No
	Front	0.668	0.878	1070	1120	0.376	1044	No	1254	No	1446	No	1496	No

12.2. Sum of the SAR for Wi-Fi (Cell Off)& BT(P_{low})

RF Exposure Conditions	Test Position	① Wi-Fi 2.4GHz (LAT)	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ⑤		② + ⑤		③ + ⑤		④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.249	0.522	0.247	0.490	0.042	0.291	No	0.564	No	0.289	No	0.532	No
	Left Tilt	0.249	0.412	0.247	0.451	0.046	0.295	No	0.458	No	0.293	No	0.497	No
	Right Touch	0.249	0.991	0.247	0.980	0.046	0.295	No	1037	No	0.293	No	1026	No
	Right Tilt	0.249	0.885	0.247	0.942	0.037	0.286	No	0.922	No	0.284	No	0.979	No
Body-worn	Rear	0.668	0.933	0.234	0.946	0.048	0.716	No	0.981	No	0.282	No	0.994	No
	Front	0.668	0.878	1070	1120	0.047	0.715	No	0.925	No	1117	No	1167	No

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.3. Sum of the SAR for GSM850 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.737	0.350	0.249	0.371	0.042	1087	No	0.986	No	1108	No	0.779	No	1028	No
	Left Tilt	0.456	0.350	0.249	0.371	0.046	0.806	No	0.705	No	0.827	No	0.502	No	0.751	No
	Right Touch	0.682	0.350	0.249	0.371	0.046	1032	No	0.931	No	1053	No	0.728	No	0.977	No
	Right Tilt	0.389	0.350	0.249	0.371	0.037	0.739	No	0.638	No	0.760	No	0.426	No	0.675	No
Body-worn & Hotspot & Airplay	Rear	0.506	0.331	0.209	0.382	0.048	0.837	No	0.715	No	0.888	No	0.554	No	0.763	No
	Front	0.503	0.331	0.209	0.382	0.047	0.834	No	0.712	No	0.885	No	0.550	No	0.759	No
Hotspot & Airplay	Edge 1	0.201	0.331	0.209	0.382	N/A	0.532	No	0.410	No	0.583	No				
	Edge 2	0.644	0.331	0.209	0.382	N/A	0.975	No	0.853	No	1026	No				
	Edge 4	0.467	0.331	0.209	0.382	N/A	0.798	No	0.676	No	0.849	No				

12.4. Sum of the SAR for GSM850 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.650	0.350	0.249	0.371	0.042	1000	No	0.899	No	1021	No	0.692	No	0.941	No
	Left Tilt	0.421	0.350	0.249	0.371	0.046	0.771	No	0.670	No	0.792	No	0.467	No	0.716	No
	Right Touch	0.555	0.350	0.249	0.371	0.046	0.905	No	0.804	No	0.926	No	0.601	No	0.850	No
	Right Tilt	0.446	0.350	0.249	0.371	0.037	0.796	No	0.695	No	0.817	No	0.483	No	0.732	No
Body-worn & Hotspot & Airplay	Rear	0.950	0.331	0.209	0.382	0.048	1281	No	1159	No	1332	No	0.998	No	1207	No
	Front	1060	0.331	0.209	0.382	0.047	1391	No	1269	No	1442	No	1107	No	1316	No
Hotspot & Airplay	Edge 2	0.787	0.331	0.209	0.382	N/A	1118	No	0.996	No	1169	No				
	Edge 3	0.761	0.331	0.209	0.382	N/A	1092	No	0.970	No	1143	No				
	Edge 4	0.885	0.331	0.209	0.382	N/A	1216	No	1094	No	1267	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.5. Sum of the SAR for GSM1900 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.277	0.350	0.249	0.371	0.042	0.627	No	0.526	No	0.648	No	0.319	No	0.568	No
	Left Tilt	0.299	0.350	0.249	0.371	0.046	0.649	No	0.548	No	0.670	No	0.345	No	0.594	No
	Right Touch	0.838	0.350	0.249	0.371	0.046	1.188	No	1.087	No	1.209	No	0.884	No	1.133	No
	Right Tilt	0.692	0.350	0.249	0.371	0.037	1.042	No	0.941	No	1.063	No	0.729	No	0.978	No
Body-worn & Hotspot & Airplay	Rear	0.834	0.331	0.209	0.382	0.048	1.165	No	1.043	No	1.216	No	0.882	No	1.091	No
	Front	0.872	0.331	0.209	0.382	0.047	1.203	No	1.081	No	1.254	No	0.919	No	1.128	No
Hotspot & Airplay	Edge 1	0.493	0.331	0.209	0.382	N/A	0.824	No	0.702	No	0.875	No				
	Edge 2	0.030	0.331	0.209	0.382	N/A	0.361	No	0.239	No	0.412	No				
	Edge 4	0.342	0.331	0.209	0.382	N/A	0.673	No	0.551	No	0.724	No				

12.6. Sum of the SAR for GSM1900 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.480	0.350	0.249	0.371	0.042	0.830	No	0.729	No	0.851	No	0.522	No	0.771	No
	Left Tilt	0.340	0.350	0.249	0.371	0.046	0.690	No	0.589	No	0.711	No	0.386	No	0.635	No
	Right Touch	0.983	0.350	0.249	0.371	0.046	1.333	No	1.232	No	1.354	No	1.029	No	1.278	No
	Right Tilt	0.284	0.350	0.249	0.371	0.037	0.634	No	0.533	No	0.655	No	0.321	No	0.570	No
Body-worn & Hotspot & Airplay	Rear	0.995	0.331	0.209	0.382	0.048	1.326	No	1.204	No	1.377	No	1.043	No	1.252	No
	Front	0.987	0.331	0.209	0.382	0.047	1.318	No	1.196	No	1.369	No	1.034	No	1.243	No
Hotspot & Airplay	Edge 2	0.533	0.331	0.209	0.382	N/A	0.864	No	0.742	No	0.915	No				
	Edge 3	0.985	0.331	0.209	0.382	N/A	1.316	No	1.194	No	1.367	No				
	Edge 4	0.094	0.331	0.209	0.382	N/A	0.425	No	0.303	No	0.476	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.7. Sum of the SAR for W-CDMA V (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.785	0.350	0.249	0.371	0.042	1.135	No	1.034	No	1.156	No	0.827	No	1.076	No
	Left Tilt	0.433	0.350	0.249	0.371	0.046	0.783	No	0.682	No	0.804	No	0.479	No	0.728	No
	Right Touch	0.634	0.350	0.249	0.371	0.046	0.984	No	0.883	No	1.005	No	0.680	No	0.929	No
	Right Tilt	0.383	0.350	0.249	0.371	0.037	0.733	No	0.632	No	0.754	No	0.420	No	0.669	No
Body-worn & Hotspot & Airplay	Rear	0.303	0.331	0.209	0.382	0.048	0.634	No	0.512	No	0.685	No	0.351	No	0.560	No
	Front	0.301	0.331	0.209	0.382	0.047	0.632	No	0.510	No	0.683	No	0.348	No	0.557	No
Hotspot & Airplay	Edge 1	0.125	0.331	0.209	0.382	N/A	0.456	No	0.334	No	0.507	No				
	Edge 2	0.431	0.331	0.209	0.382	N/A	0.762	No	0.640	No	0.813	No				
	Edge 4	0.331	0.331	0.209	0.382	N/A	0.662	No	0.540	No	0.713	No				

12.8. Sum of the SAR for W-CDMA V (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.570	0.350	0.249	0.371	0.042	0.920	No	0.819	No	0.941	No	0.612	No	0.861	No
	Left Tilt	0.318	0.350	0.249	0.371	0.046	0.668	No	0.567	No	0.689	No	0.364	No	0.613	No
	Right Touch	0.491	0.350	0.249	0.371	0.046	0.841	No	0.740	No	0.862	No	0.537	No	0.786	No
	Right Tilt	0.306	0.350	0.249	0.371	0.037	0.656	No	0.555	No	0.677	No	0.343	No	0.592	No
Body-worn & Hotspot & Airplay	Rear	0.926	0.331	0.209	0.382	0.048	1.257	No	1.135	No	1.308	No	0.974	No	1.183	No
	Front	0.951	0.331	0.209	0.382	0.047	1.282	No	1.160	No	1.333	No	0.998	No	1.207	No
Hotspot & Airplay	Edge 2	0.522	0.331	0.209	0.382	N/A	0.853	No	0.731	No	0.904	No				
	Edge 3	0.653	0.331	0.209	0.382	N/A	0.984	No	0.862	No	1.035	No				
	Edge 4	0.476	0.331	0.209	0.382	N/A	0.807	No	0.685	No	0.858	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.9. Sum of the SAR for W-CDMA IV (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.343	0.350	0.249	0.371	0.042	0.693	No	0.592	No	0.714	No	0.385	No	0.634	No
	Left Tilt	0.370	0.350	0.249	0.371	0.046	0.720	No	0.619	No	0.741	No	0.416	No	0.665	No
	Right Touch	0.925	0.350	0.249	0.371	0.046	1275	No	1174	No	1296	No	0.971	No	1220	No
	Right Tilt	0.728	0.350	0.249	0.371	0.037	1078	No	0.977	No	1099	No	0.765	No	1014	No
Body-worn & Hotspot & Airplay	Rear	0.968	0.331	0.209	0.382	0.048	1299	No	1177	No	1350	No	1016	No	1225	No
	Front	0.999	0.331	0.209	0.382	0.047	1330	No	1208	No	1381	No	1046	No	1255	No
Hotspot & Airplay	Edge 1	0.922	0.331	0.209	0.382	N/A	1253	No	1131	No	1304	No				
	Edge 2	0.035	0.331	0.209	0.382	N/A	0.366	No	0.244	No	0.417	No				
	Edge 4	0.624	0.331	0.209	0.382	N/A	0.955	No	0.833	No	1006	No				

12.10. Sum of the SAR for W-CDMA IV (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.297	0.350	0.249	0.371	0.042	0.647	No	0.546	No	0.668	No	0.339	No	0.588	No
	Left Tilt	0.180	0.350	0.249	0.371	0.046	0.530	No	0.429	No	0.551	No	0.226	No	0.475	No
	Right Touch	0.668	0.350	0.249	0.371	0.046	1018	No	0.917	No	1039	No	0.714	No	0.963	No
	Right Tilt	0.181	0.350	0.249	0.371	0.037	0.531	No	0.430	No	0.552	No	0.218	No	0.467	No
Body-worn & Hotspot & Airplay	Rear	1050	0.331	0.209	0.382	0.048	1381	No	1259	No	1432	No	1098	No	1307	No
	Front	0.982	0.331	0.209	0.382	0.047	1313	No	1191	No	1364	No	1029	No	1238	No
Hotspot & Airplay	Edge 2	0.393	0.331	0.209	0.382	N/A	0.724	No	0.602	No	0.775	No				
	Edge 3	1.110	0.331	0.209	0.382	N/A	1441	No	1319	No	1492	No				
	Edge 4	0.026	0.331	0.209	0.382	N/A	0.357	No	0.235	No	0.408	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.11. Sum of the SAR for W-CDMA II (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.317	0.350	0.249	0.371	0.042	0.667	No	0.566	No	0.688	No	0.359	No	0.608	No
	Left Tilt	0.322	0.350	0.249	0.371	0.046	0.672	No	0.571	No	0.693	No	0.368	No	0.617	No
	Right Touch	0.939	0.350	0.249	0.371	0.046	1289	No	1188	No	1310	No	0.985	No	1234	No
	Right Tilt	0.756	0.350	0.249	0.371	0.037	1106	No	1005	No	1127	No	0.793	No	1042	No
Body-worn & Hotspot & Airplay	Rear	0.979	0.331	0.209	0.382	0.048	1310	No	1188	No	1361	No	1027	No	1236	No
	Front	0.966	0.331	0.209	0.382	0.047	1297	No	1175	No	1348	No	1013	No	1222	No
Hotspot & Airplay	Edge 1	0.745	0.331	0.209	0.382	N/A	1076	No	0.954	No	1127	No				
	Edge 2	0.062	0.331	0.209	0.382	N/A	0.393	No	0.271	No	0.444	No				
	Edge 4	0.588	0.331	0.209	0.382	N/A	0.919	No	0.797	No	0.970	No				

12.12. Sum of the SAR for W-CDMA II (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.675	0.350	0.249	0.371	0.042	1025	No	0.924	No	1046	No	0.717	No	0.966	No
	Left Tilt	0.451	0.350	0.249	0.371	0.046	0.801	No	0.700	No	0.822	No	0.497	No	0.746	No
	Right Touch	1080	0.350	0.249	0.371	0.046	1430	No	1329	No	1451	No	1126	No	1375	No
	Right Tilt	0.377	0.350	0.249	0.371	0.037	0.727	No	0.626	No	0.748	No	0.414	No	0.663	No
Body-worn & Hotspot & Airplay	Rear	1140	0.331	0.209	0.382	0.048	1471	No	1349	No	1522	No	1188	No	1397	No
	Front	0.959	0.331	0.209	0.382	0.047	1290	No	1168	No	1341	No	1006	No	1215	No
Hotspot & Airplay	Edge 2	0.631	0.331	0.209	0.382	N/A	0.962	No	0.840	No	1013	No				
	Edge 3	0.927	0.331	0.209	0.382	N/A	1258	No	1136	No	1309	No				
	Edge 4	0.105	0.331	0.209	0.382	N/A	0.436	No	0.314	No	0.487	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.13. Sum of the SAR for CDMA BC0 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.943	0.350	0.249	0.371	0.042	1293	No	1192	No	1314	No	0.985	No	1234	No
	Left Tilt	0.629	0.350	0.249	0.371	0.046	0.979	No	0.878	No	1000	No	0.675	No	0.924	No
	Right Touch	0.896	0.350	0.249	0.371	0.046	1246	No	1145	No	1267	No	0.942	No	1191	No
	Right Tilt	0.594	0.350	0.249	0.371	0.037	0.944	No	0.843	No	0.965	No	0.631	No	0.880	No
Body-worn & Hotspot & Airplay	Rear	0.376	0.331	0.209	0.382	0.048	0.707	No	0.585	No	0.758	No	0.424	No	0.633	No
	Front	0.380	0.331	0.209	0.382	0.047	0.711	No	0.589	No	0.762	No	0.427	No	0.636	No
Hotspot & Airplay	Edge 1	0.163	0.331	0.209	0.382	N/A	0.494	No	0.372	No	0.545	No				
	Edge 2	0.392	0.331	0.209	0.382	N/A	0.723	No	0.601	No	0.774	No				
	Edge 4	0.304	0.331	0.209	0.382	N/A	0.635	No	0.513	No	0.686	No				

12.14. Sum of the SAR for CDMA BC0 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.476	0.350	0.249	0.371	0.042	0.826	No	0.725	No	0.847	No	0.518	No	0.767	No
	Left Tilt	0.251	0.350	0.249	0.371	0.046	0.601	No	0.500	No	0.622	No	0.297	No	0.546	No
	Right Touch	0.387	0.350	0.249	0.371	0.046	0.737	No	0.636	No	0.758	No	0.433	No	0.682	No
	Right Tilt	0.225	0.350	0.249	0.371	0.037	0.575	No	0.474	No	0.596	No	0.262	No	0.511	No
Body-worn & Hotspot & Airplay	Rear	0.996	0.331	0.209	0.382	0.048	1327	No	1205	No	1378	No	1044	No	1253	No
	Front	0.931	0.331	0.209	0.382	0.047	1262	No	1140	No	1313	No	0.978	No	1187	No
Hotspot & Airplay	Edge 2	0.710	0.331	0.209	0.382	N/A	1041	No	0.919	No	1092	No				
	Edge 3	0.793	0.331	0.209	0.382	N/A	1124	No	1002	No	1175	No				
	Edge 4	0.756	0.331	0.209	0.382	N/A	1087	No	0.965	No	1138	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.15. Sum of the SAR for CDMA BC1 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.332	0.350	0.249	0.371	0.042	0.682	No	0.581	No	0.703	No	0.374	No	0.623	No
	Left Tilt	0.349	0.350	0.249	0.371	0.046	0.699	No	0.598	No	0.720	No	0.395	No	0.644	No
	Right Touch	0.988	0.350	0.249	0.371	0.046	1338	No	1237	No	1359	No	1034	No	1283	No
	Right Tilt	0.770	0.350	0.249	0.371	0.037	1120	No	1019	No	1141	No	0.807	No	1056	No
Body-worn & Hotspot & Airplay	Rear	0.981	0.331	0.209	0.382	0.048	1312	No	1190	No	1363	No	1029	No	1238	No
	Front	0.965	0.331	0.209	0.382	0.047	1296	No	1174	No	1347	No	1012	No	1221	No
Hotspot & Airplay	Edge 1	0.971	0.331	0.209	0.382	N/A	1302	No	1180	No	1353	No				
	Edge 2	0.068	0.331	0.209	0.382	N/A	0.399	No	0.277	No	0.450	No				
	Edge 4	0.773	0.331	0.209	0.382	N/A	1104	No	0.982	No	1155	No				

12.16. Sum of the SAR for CDMA BC1 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.557	0.350	0.249	0.371	0.042	0.907	No	0.806	No	0.928	No	0.599	No	0.848	No
	Left Tilt	0.450	0.350	0.249	0.371	0.046	0.800	No	0.699	No	0.821	No	0.496	No	0.745	No
	Right Touch	1140	0.350	0.249	0.371	0.046	1490	No	1389	No	1511	No	1186	No	1435	No
	Right Tilt	0.351	0.350	0.249	0.371	0.037	0.701	No	0.600	No	0.722	No	0.388	No	0.637	No
Body-worn & Hotspot & Airplay	Rear	1130	0.331	0.209	0.382	0.048	1461	No	1339	No	1512	No	1178	No	1387	No
	Front	1010	0.331	0.209	0.382	0.047	1341	No	1219	No	1392	No	1057	No	1266	No
Hotspot & Airplay	Edge 2	0.545	0.331	0.209	0.382	N/A	0.876	No	0.754	No	0.927	No				
	Edge 3	0.942	0.331	0.209	0.382	N/A	1273	No	1151	No	1324	No				
	Edge 4	0.104	0.331	0.209	0.382	N/A	0.435	No	0.313	No	0.486	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.17. Sum of the SAR for CDMA BC10 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.712	0.350	0.249	0.371	0.042	1.062	No	0.961	No	1.083	No	0.754	No	1.003	No
	Left Tilt	0.389	0.350	0.249	0.371	0.046	0.739	No	0.638	No	0.760	No	0.435	No	0.684	No
	Right Touch	0.612	0.350	0.249	0.371	0.046	0.962	No	0.861	No	0.983	No	0.658	No	0.907	No
	Right Tilt	0.322	0.350	0.249	0.371	0.037	0.672	No	0.571	No	0.693	No	0.359	No	0.608	No
Body-worn & Hotspot & Airplay	Rear	0.258	0.331	0.209	0.382	0.048	0.589	No	0.467	No	0.640	No	0.306	No	0.515	No
	Front	0.250	0.331	0.209	0.382	0.047	0.581	No	0.459	No	0.632	No	0.297	No	0.506	No
Hotspot & Airplay	Edge 1	0.093	0.331	0.209	0.382	N/A	0.424	No	0.302	No	0.475	No				
	Edge 2	0.412	0.331	0.209	0.382	N/A	0.743	No	0.621	No	0.794	No				
	Edge 4	0.307	0.331	0.209	0.382	N/A	0.638	No	0.516	No	0.689	No				

12.18. Sum of the SAR for CDMA BC10 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.581	0.350	0.249	0.371	0.042	0.931	No	0.830	No	0.952	No	0.623	No	0.872	No
	Left Tilt	0.387	0.350	0.249	0.371	0.046	0.737	No	0.636	No	0.758	No	0.433	No	0.682	No
	Right Touch	0.492	0.350	0.249	0.371	0.046	0.842	No	0.741	No	0.863	No	0.538	No	0.787	No
	Right Tilt	0.371	0.350	0.249	0.371	0.037	0.721	No	0.620	No	0.742	No	0.408	No	0.657	No
Body-worn & Hotspot & Airplay	Rear	0.878	0.331	0.209	0.382	0.048	1.209	No	1.087	No	1.260	No	0.926	No	1.135	No
	Front	1.100	0.331	0.209	0.382	0.047	1.431	No	1.309	No	1.482	No	1.147	No	1.356	No
Hotspot & Airplay	Edge 2	0.421	0.331	0.209	0.382	N/A	0.752	No	0.630	No	0.803	No				
	Edge 3	0.375	0.331	0.209	0.382	N/A	0.706	No	0.584	No	0.757	No				
	Edge 4	0.868	0.331	0.209	0.382	N/A	1.199	No	1.077	No	1.250	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.19. Sum of the SAR for CDMA BC15 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.350	0.350	0.249	0.371	0.042	0.700	No	0.599	No	0.721	No	0.392	No	0.641	No
	Left Tilt	0.327	0.350	0.249	0.371	0.046	0.677	No	0.576	No	0.698	No	0.373	No	0.622	No
	Right Touch	0.924	0.350	0.249	0.371	0.046	1274	No	1173	No	1295	No	0.970	No	1219	No
	Right Tilt	0.721	0.350	0.249	0.371	0.037	1071	No	0.970	No	1092	No	0.758	No	1007	No
Body-worn & Hotspot & Airplay	Rear	0.699	0.331	0.209	0.382	0.048	1030	No	0.908	No	1081	No	0.747	No	0.956	No
	Front	0.781	0.331	0.209	0.382	0.047	1112	No	0.990	No	1163	No	0.828	No	1037	No
Hotspot & Airplay	Edge 1	0.762	0.331	0.209	0.382	N/A	1093	No	0.971	No	1144	No				
	Edge 2	0.027	0.331	0.209	0.382	N/A	0.358	No	0.236	No	0.409	No				
	Edge 4	0.495	0.331	0.209	0.382	N/A	0.826	No	0.704	No	0.877	No				

12.20. Sum of the SAR for CDMA BC15 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.332	0.350	0.249	0.371	0.042	0.682	No	0.581	No	0.703	No	0.374	No	0.623	No
	Left Tilt	0.226	0.350	0.249	0.371	0.046	0.576	No	0.475	No	0.597	No	0.272	No	0.521	No
	Right Touch	0.742	0.350	0.249	0.371	0.046	1092	No	0.991	No	1113	No	0.788	No	1037	No
	Right Tilt	0.212	0.350	0.249	0.371	0.037	0.562	No	0.461	No	0.583	No	0.249	No	0.498	No
Body-worn & Hotspot & Airplay	Rear	0.982	0.331	0.209	0.382	0.048	1313	No	1191	No	1364	No	1030	No	1239	No
	Front	0.884	0.331	0.209	0.382	0.047	1215	No	1093	No	1266	No	0.931	No	1140	No
Hotspot & Airplay	Edge 2	0.377	0.331	0.209	0.382	N/A	0.708	No	0.586	No	0.759	No				
	Edge 3	0.926	0.331	0.209	0.382	N/A	1257	No	1135	No	1308	No				
	Edge 4	0.082	0.331	0.209	0.382	N/A	0.413	No	0.291	No	0.464	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.21. Sum of the SAR for LTE Band 2 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.351	0.350	0.249	0.371	0.042	0.701	No	0.600	No	0.722	No	0.393	No	0.642	No
	Left Tilt	0.373	0.350	0.249	0.371	0.046	0.723	No	0.622	No	0.744	No	0.419	No	0.668	No
	Right Touch	0.931	0.350	0.249	0.371	0.046	1281	No	1180	No	1302	No	0.977	No	1226	No
	Right Tilt	0.882	0.350	0.249	0.371	0.037	1232	No	1131	No	1253	No	0.919	No	1168	No
Body-worn & Hotspot & Airplay	Rear	0.869	0.331	0.209	0.382	0.048	1200	No	1078	No	1251	No	0.917	No	1126	No
	Front	0.966	0.331	0.209	0.382	0.047	1297	No	1175	No	1348	No	1013	No	1222	No
Hotspot & Airplay	Edge 1	0.933	0.331	0.209	0.382	N/A	1264	No	1142	No	1315	No				
	Edge 2	0.066	0.331	0.209	0.382	N/A	0.397	No	0.275	No	0.448	No				
	Edge 4	0.588	0.331	0.209	0.382	N/A	0.919	No	0.797	No	0.970	No				

12.22. Sum of the SAR for LTE Band 2 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.505	0.350	0.249	0.371	0.042	0.855	No	0.754	No	0.876	No	0.547	No	0.796	No
	Left Tilt	0.413	0.350	0.249	0.371	0.046	0.763	No	0.662	No	0.784	No	0.459	No	0.708	No
	Right Touch	0.898	0.350	0.249	0.371	0.046	1248	No	1147	No	1269	No	0.944	No	1193	No
	Right Tilt	0.305	0.350	0.249	0.371	0.037	0.655	No	0.554	No	0.676	No	0.342	No	0.591	No
Body-worn & Hotspot & Airplay	Rear	1.110	0.331	0.209	0.382	0.048	1441	No	1319	No	1492	No	1.158	No	1367	No
	Front	0.908	0.331	0.209	0.382	0.047	1239	No	1117	No	1290	No	0.955	No	1.164	No
Hotspot & Airplay	Edge 2	0.545	0.331	0.209	0.382	N/A	0.876	No	0.754	No	0.927	No				
	Edge 3	0.894	0.331	0.209	0.382	N/A	1225	No	1103	No	1276	No				
	Edge 4	0.124	0.331	0.209	0.382	N/A	0.455	No	0.333	No	0.506	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.23. Sum of the SAR for LTE Band 4 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.348	0.350	0.249	0.371	0.042	0.698	No	0.597	No	0.719	No	0.390	No	0.639	No
	Left Tilt	0.363	0.350	0.249	0.371	0.046	0.713	No	0.612	No	0.734	No	0.409	No	0.658	No
	Right Touch	0.966	0.350	0.249	0.371	0.046	1316	No	1215	No	1337	No	1012	No	1261	No
	Right Tilt	0.715	0.350	0.249	0.371	0.037	1065	No	0.964	No	1086	No	0.752	No	1001	No
Body-worn & Hotspot & Airplay	Rear	0.888	0.331	0.209	0.382	0.048	1219	No	1097	No	1270	No	0.936	No	1145	No
	Front	0.971	0.331	0.209	0.382	0.047	1302	No	1180	No	1353	No	1018	No	1227	No
Hotspot & Airplay	Edge 1	0.990	0.331	0.209	0.382	N/A	1321	No	1199	No	1372	No				
	Edge 2	0.052	0.331	0.209	0.382	N/A	0.383	No	0.261	No	0.434	No				
	Edge 4	0.559	0.331	0.209	0.382	N/A	0.890	No	0.768	No	0.941	No				

12.24. Sum of the SAR for LTE Band 4 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.213	0.350	0.249	0.371	0.042	0.563	No	0.462	No	0.584	No	0.255	No	0.504	No
	Left Tilt	0.161	0.350	0.249	0.371	0.046	0.511	No	0.410	No	0.532	No	0.207	No	0.456	No
	Right Touch	0.460	0.350	0.249	0.371	0.046	0.810	No	0.709	No	0.831	No	0.506	No	0.755	No
	Right Tilt	0.157	0.350	0.249	0.371	0.037	0.507	No	0.406	No	0.528	No	0.194	No	0.443	No
Body-worn & Hotspot & Airplay	Rear	0.897	0.331	0.209	0.382	0.048	1228	No	1106	No	1279	No	0.945	No	1154	No
	Front	0.899	0.331	0.209	0.382	0.047	1230	No	1108	No	1281	No	0.946	No	1155	No
Hotspot & Airplay	Edge 2	0.430	0.331	0.209	0.382	N/A	0.761	No	0.639	No	0.812	No				
	Edge 3	1030	0.331	0.209	0.382	N/A	1361	No	1239	No	1412	No				
	Edge 4	0.034	0.331	0.209	0.382	N/A	0.365	No	0.243	No	0.416	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.25. Sum of the SAR for LTE Band 5 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.578	0.350	0.249	0.371	0.042	0.928	No	0.827	No	0.949	No	0.620	No	0.869	No
	Left Tilt	0.344	0.350	0.249	0.371	0.046	0.694	No	0.593	No	0.715	No	0.390	No	0.639	No
	Right Touch	0.496	0.350	0.249	0.371	0.046	0.846	No	0.745	No	0.867	No	0.542	No	0.791	No
	Right Tilt	0.282	0.350	0.249	0.371	0.037	0.632	No	0.531	No	0.653	No	0.319	No	0.568	No
Body-worn & Hotspot & Airplay	Rear	0.246	0.331	0.209	0.382	0.048	0.577	No	0.455	No	0.628	No	0.294	No	0.503	No
	Front	0.214	0.331	0.209	0.382	0.047	0.545	No	0.423	No	0.596	No	0.261	No	0.470	No
Hotspot & Airplay	Edge 1	0.093	0.331	0.209	0.382	N/A	0.424	No	0.302	No	0.475	No				
	Edge 2	0.383	0.331	0.209	0.382	N/A	0.714	No	0.592	No	0.765	No				
	Edge 4	0.116	0.331	0.209	0.382	N/A	0.447	No	0.325	No	0.498	No				

12.26. Sum of the SAR for LTE Band 5 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.362	0.350	0.249	0.371	0.042	0.712	No	0.611	No	0.733	No	0.404	No	0.653	No
	Left Tilt	0.210	0.350	0.249	0.371	0.046	0.560	No	0.459	No	0.581	No	0.256	No	0.505	No
	Right Touch	0.293	0.350	0.249	0.371	0.046	0.643	No	0.542	No	0.664	No	0.339	No	0.588	No
	Right Tilt	0.225	0.350	0.249	0.371	0.037	0.575	No	0.474	No	0.596	No	0.262	No	0.511	No
Body-worn & Hotspot & Airplay	Rear	0.615	0.331	0.209	0.382	0.048	0.946	No	0.824	No	0.997	No	0.663	No	0.872	No
	Front	0.721	0.331	0.209	0.382	0.047	1052	No	0.930	No	1103	No	0.768	No	0.977	No
Hotspot & Airplay	Edge 2	0.327	0.331	0.209	0.382	N/A	0.658	No	0.536	No	0.709	No				
	Edge 3	0.497	0.331	0.209	0.382	N/A	0.828	No	0.706	No	0.879	No				
	Edge 4	0.785	0.331	0.209	0.382	N/A	1116	No	0.994	No	1167	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.27. Sum of the SAR for LTE Band 7 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.734	0.350	0.249	0.371	0.042	1084	No	0.983	No	1105	No	0.776	No	1025	No
	Left Tilt	0.700	0.350	0.249	0.371	0.046	1050	No	0.949	No	1071	No	0.746	No	0.995	No
	Right Touch	0.994	0.350	0.249	0.371	0.046	1344	No	1243	No	1365	No	1040	No	1289	No
	Right Tilt	0.959	0.350	0.249	0.371	0.037	1309	No	1208	No	1330	No	0.996	No	1245	No
Body-worn & Hotspot & Airplay	Rear	0.985	0.331	0.209	0.382	0.048	1316	No	1194	No	1367	No	1033	No	1242	No
	Front	0.574	0.331	0.209	0.382	0.047	0.905	No	0.783	No	0.956	No	0.621	No	0.830	No
Hotspot & Airplay	Edge 1	0.421	0.331	0.209	0.382	N/A	0.752	No	0.630	No	0.803	No				
	Edge 2	0.267	0.331	0.209	0.382	N/A	0.598	No	0.476	No	0.649	No				
	Edge 4	0.345	0.331	0.209	0.382	N/A	0.676	No	0.554	No	0.727	No				

12.28. Sum of the SAR for LTE Band 7 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.994	0.350	0.249	0.371	0.042	1344	No	1243	No	1365	No	1036	No	1285	No
	Left Tilt	0.270	0.350	0.249	0.371	0.046	0.620	No	0.519	No	0.641	No	0.316	No	0.565	No
	Right Touch	0.531	0.350	0.249	0.371	0.046	0.881	No	0.780	No	0.902	No	0.577	No	0.826	No
	Right Tilt	0.414	0.350	0.249	0.371	0.037	0.764	No	0.663	No	0.785	No	0.451	No	0.700	No
Body-worn & Hotspot & Airplay	Rear	1.140	0.331	0.209	0.382	0.048	1471	No	1349	No	1522	No	1188	No	1397	No
	Front	0.836	0.331	0.209	0.382	0.047	1.167	No	1045	No	1218	No	0.883	No	1092	No
Hotspot & Airplay	Edge 2	0.119	0.331	0.209	0.382	N/A	0.450	No	0.328	No	0.501	No				
	Edge 3	0.555	0.331	0.209	0.382	N/A	0.886	No	0.764	No	0.937	No				
	Edge 4	0.656	0.331	0.209	0.382	N/A	0.987	No	0.865	No	1038	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.29. Sum of the SAR for LTE Band 12 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.613	0.350	0.249	0.371	0.042	0.963	No	0.862	No	0.984	No	0.655	No	0.904	No
	Left Tilt	0.488	0.350	0.249	0.371	0.046	0.838	No	0.737	No	0.859	No	0.534	No	0.783	No
	Right Touch	0.610	0.350	0.249	0.371	0.046	0.960	No	0.859	No	0.981	No	0.656	No	0.905	No
	Right Tilt	0.451	0.350	0.249	0.371	0.037	0.801	No	0.700	No	0.822	No	0.488	No	0.737	No
Body-worn & Hotspot & Airplay	Rear	0.276	0.331	0.209	0.382	0.048	0.607	No	0.485	No	0.658	No	0.324	No	0.533	No
	Front	0.265	0.331	0.209	0.382	0.047	0.596	No	0.474	No	0.647	No	0.312	No	0.521	No
Hotspot & Airplay	Edge 1	0.139	0.331	0.209	0.382	N/A	0.470	No	0.348	No	0.521	No				
	Edge 2	0.332	0.331	0.209	0.382	N/A	0.663	No	0.541	No	0.714	No				
	Edge 4	0.182	0.331	0.209	0.382	N/A	0.513	No	0.391	No	0.564	No				

12.30. Sum of the SAR for LTE Band 12 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.227	0.350	0.249	0.371	0.042	0.577	No	0.476	No	0.598	No	0.269	No	0.518	No
	Left Tilt	0.075	0.350	0.249	0.371	0.046	0.425	No	0.324	No	0.446	No	0.121	No	0.370	No
	Right Touch	0.181	0.350	0.249	0.371	0.046	0.531	No	0.430	No	0.552	No	0.227	No	0.476	No
	Right Tilt	0.097	0.350	0.249	0.371	0.037	0.447	No	0.346	No	0.468	No	0.134	No	0.383	No
Body-worn & Hotspot & Airplay	Rear	0.500	0.331	0.209	0.382	0.048	0.831	No	0.709	No	0.882	No	0.548	No	0.757	No
	Front	0.518	0.331	0.209	0.382	0.047	0.849	No	0.727	No	0.900	No	0.565	No	0.774	No
Hotspot & Airplay	Edge 2	0.281	0.331	0.209	0.382	N/A	0.612	No	0.490	No	0.663	No				
	Edge 3	0.452	0.331	0.209	0.382	N/A	0.783	No	0.661	No	0.834	No				
	Edge 4	0.569	0.331	0.209	0.382	N/A	0.900	No	0.778	No	0.951	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.31. Sum of the SAR for LTE Band 13 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.758	0.350	0.249	0.371	0.042	1.108	No	1007	No	1.129	No	0.800	No	1049	No
	Left Tilt	0.528	0.350	0.249	0.371	0.046	0.878	No	0.777	No	0.899	No	0.574	No	0.823	No
	Right Touch	0.637	0.350	0.249	0.371	0.046	0.987	No	0.886	No	1008	No	0.683	No	0.932	No
	Right Tilt	0.490	0.350	0.249	0.371	0.037	0.840	No	0.739	No	0.861	No	0.527	No	0.776	No
Body-worn & Hotspot & Airplay	Rear	0.262	0.331	0.209	0.382	0.048	0.593	No	0.471	No	0.644	No	0.310	No	0.519	No
	Front	0.263	0.331	0.209	0.382	0.047	0.594	No	0.472	No	0.645	No	0.310	No	0.519	No
Hotspot & Airplay	Edge 1	0.186	0.331	0.209	0.382	N/A	0.517	No	0.395	No	0.568	No				
	Edge 2	0.379	0.331	0.209	0.382	N/A	0.710	No	0.588	No	0.761	No				
	Edge 4	0.151	0.331	0.209	0.382	N/A	0.482	No	0.360	No	0.533	No				

12.32. Sum of the SAR for LTE Band 13 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.299	0.350	0.249	0.371	0.042	0.649	No	0.548	No	0.670	No	0.341	No	0.590	No
	Left Tilt	0.130	0.350	0.249	0.371	0.046	0.480	No	0.379	No	0.501	No	0.176	No	0.425	No
	Right Touch	0.263	0.350	0.249	0.371	0.046	0.613	No	0.512	No	0.634	No	0.309	No	0.558	No
	Right Tilt	0.151	0.350	0.249	0.371	0.037	0.501	No	0.400	No	0.522	No	0.188	No	0.437	No
Body-worn & Hotspot & Airplay	Rear	0.585	0.331	0.209	0.382	0.048	0.916	No	0.794	No	0.967	No	0.633	No	0.842	No
	Front	0.650	0.331	0.209	0.382	0.047	0.981	No	0.859	No	1032	No	0.697	No	0.906	No
Hotspot & Airplay	Edge 2	0.335	0.331	0.209	0.382	N/A	0.666	No	0.544	No	0.717	No				
	Edge 3	0.553	0.331	0.209	0.382	N/A	0.884	No	0.762	No	0.935	No				
	Edge 4	0.744	0.331	0.209	0.382	N/A	1075	No	0.953	No	1126	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.33. Sum of the SAR for LTE Band 17 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.678	0.350	0.249	0.371	0.042	1.028	No	0.927	No	1.049	No	0.720	No	0.969	No
	Left Tilt	0.483	0.350	0.249	0.371	0.046	0.833	No	0.732	No	0.854	No	0.529	No	0.778	No
	Right Touch	0.566	0.350	0.249	0.371	0.046	0.916	No	0.815	No	0.937	No	0.612	No	0.861	No
	Right Tilt	0.484	0.350	0.249	0.371	0.037	0.834	No	0.733	No	0.855	No	0.521	No	0.770	No
Body-worn & Hotspot & Airplay	Rear	0.280	0.331	0.209	0.382	0.048	0.611	No	0.489	No	0.662	No	0.328	No	0.537	No
	Front	0.306	0.331	0.209	0.382	0.047	0.637	No	0.515	No	0.688	No	0.353	No	0.562	No
Hotspot & Airplay	Edge 1	0.160	0.331	0.209	0.382	N/A	0.491	No	0.369	No	0.542	No				
	Edge 2	0.356	0.331	0.209	0.382	N/A	0.687	No	0.565	No	0.738	No				
	Edge 4	0.195	0.331	0.209	0.382	N/A	0.526	No	0.404	No	0.577	No				

12.34. Sum of the SAR for LTE Band 17 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.222	0.350	0.249	0.371	0.042	0.572	No	0.471	No	0.593	No	0.264	No	0.513	No
	Left Tilt	0.078	0.350	0.249	0.371	0.046	0.428	No	0.327	No	0.449	No	0.124	No	0.373	No
	Right Touch	0.181	0.350	0.249	0.371	0.046	0.531	No	0.430	No	0.552	No	0.227	No	0.476	No
	Right Tilt	0.076	0.350	0.249	0.371	0.037	0.426	No	0.325	No	0.447	No	0.113	No	0.362	No
Body-worn & Hotspot & Airplay	Rear	0.494	0.331	0.209	0.382	0.048	0.825	No	0.703	No	0.876	No	0.542	No	0.751	No
	Front	0.593	0.331	0.209	0.382	0.047	0.924	No	0.802	No	0.975	No	0.640	No	0.849	No
Hotspot & Airplay	Edge 2	0.273	0.331	0.209	0.382	N/A	0.604	No	0.482	No	0.655	No				
	Edge 3	0.448	0.331	0.209	0.382	N/A	0.779	No	0.657	No	0.830	No				
	Edge 4	0.567	0.331	0.209	0.382	N/A	0.898	No	0.776	No	0.949	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.35. Sum of the SAR for LTE Band 25 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.310	0.350	0.249	0.371	0.042	0.660	No	0.559	No	0.681	No	0.352	No	0.601	No
	Left Tilt	0.310	0.350	0.249	0.371	0.046	0.660	No	0.559	No	0.681	No	0.356	No	0.605	No
	Right Touch	0.935	0.350	0.249	0.371	0.046	1285	No	1184	No	1306	No	0.981	No	1230	No
	Right Tilt	0.792	0.350	0.249	0.371	0.037	1142	No	1041	No	1163	No	0.829	No	1078	No
Body-worn & Hotspot & Airplay	Rear	0.860	0.331	0.209	0.382	0.048	1191	No	1069	No	1242	No	0.908	No	1117	No
	Front	0.885	0.331	0.209	0.382	0.047	1216	No	1094	No	1267	No	0.932	No	1141	No
Hotspot & Airplay	Edge 1	0.874	0.331	0.209	0.382	N/A	1205	No	1083	No	1256	No				
	Edge 2	0.062	0.331	0.209	0.382	N/A	0.393	No	0.271	No	0.444	No				
	Edge 4	0.510	0.331	0.209	0.382	N/A	0.841	No	0.719	No	0.892	No				

12.36. Sum of the SAR for LTE Band 25 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.433	0.350	0.249	0.371	0.042	0.783	No	0.682	No	0.804	No	0.475	No	0.724	No
	Left Tilt	0.399	0.350	0.249	0.371	0.046	0.749	No	0.648	No	0.770	No	0.445	No	0.694	No
	Right Touch	1020	0.350	0.249	0.371	0.046	1370	No	1269	No	1391	No	1066	No	1315	No
	Right Tilt	0.351	0.350	0.249	0.371	0.037	0.701	No	0.600	No	0.722	No	0.388	No	0.637	No
Body-worn & Hotspot & Airplay	Rear	1020	0.331	0.209	0.382	0.048	1351	No	1229	No	1402	No	1068	No	1277	No
	Front	0.988	0.331	0.209	0.382	0.047	1319	No	1197	No	1370	No	1035	No	1244	No
Hotspot & Airplay	Edge 2	0.546	0.331	0.209	0.382	N/A	0.877	No	0.755	No	0.928	No				
	Edge 3	0.873	0.331	0.209	0.382	N/A	1204	No	1082	No	1255	No				
	Edge 4	0.116	0.331	0.209	0.382	N/A	0.447	No	0.325	No	0.498	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.37. Sum of the SAR for LTE Band 26 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.442	0.350	0.249	0.371	0.042	0.792	No	0.691	No	0.813	No	0.484	No	0.733	No
	Left Tilt	0.274	0.350	0.249	0.371	0.046	0.624	No	0.523	No	0.645	No	0.320	No	0.569	No
	Right Touch	0.421	0.350	0.249	0.371	0.046	0.771	No	0.670	No	0.792	No	0.467	No	0.716	No
	Right Tilt	0.211	0.350	0.249	0.371	0.037	0.561	No	0.460	No	0.582	No	0.248	No	0.497	No
Body-worn & Hotspot & Airplay	Rear	0.187	0.331	0.209	0.382	0.048	0.518	No	0.396	No	0.569	No	0.235	No	0.444	No
	Front	0.169	0.331	0.209	0.382	0.047	0.500	No	0.378	No	0.551	No	0.216	No	0.425	No
Hotspot & Airplay	Edge 1	0.070	0.331	0.209	0.382	N/A	0.401	No	0.279	No	0.452	No				
	Edge 2	0.189	0.331	0.209	0.382	N/A	0.520	No	0.398	No	0.571	No				
	Edge 4	0.086	0.331	0.209	0.382	N/A	0.417	No	0.295	No	0.468	No				

12.38. Sum of the SAR for LTE Band 26 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.293	0.350	0.249	0.371	0.042	0.643	No	0.542	No	0.664	No	0.335	No	0.584	No
	Left Tilt	0.158	0.350	0.249	0.371	0.046	0.508	No	0.407	No	0.529	No	0.204	No	0.453	No
	Right Touch	0.255	0.350	0.249	0.371	0.046	0.605	No	0.504	No	0.626	No	0.301	No	0.550	No
	Right Tilt	0.155	0.350	0.249	0.371	0.037	0.505	No	0.404	No	0.526	No	0.192	No	0.441	No
Body-worn & Hotspot & Airplay	Rear	0.507	0.331	0.209	0.382	0.048	0.838	No	0.716	No	0.889	No	0.555	No	0.764	No
	Front	0.585	0.331	0.209	0.382	0.047	0.916	No	0.794	No	0.967	No	0.632	No	0.841	No
Hotspot & Airplay	Edge 2	0.283	0.331	0.209	0.382	N/A	0.614	No	0.492	No	0.665	No				
	Edge 3	0.353	0.331	0.209	0.382	N/A	0.684	No	0.562	No	0.735	No				
	Edge 4	0.614	0.331	0.209	0.382	N/A	0.945	No	0.823	No	0.996	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.39. Sum of the SAR for LTE Band 30 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.356	0.350	0.249	0.371	0.042	0.706	No	0.605	No	0.727	No	0.398	No	0.647	No
	Left Tilt	0.418	0.350	0.249	0.371	0.046	0.768	No	0.667	No	0.789	No	0.464	No	0.713	No
	Right Touch	0.841	0.350	0.249	0.371	0.046	1.191	No	1.090	No	1.212	No	0.887	No	1.136	No
	Right Tilt	0.963	0.350	0.249	0.371	0.037	1.313	No	1.212	No	1.334	No	1.000	No	1.249	No
Body-worn & Hotspot & Airplay	Rear	0.822	0.331	0.209	0.382	0.048	1.153	No	1.031	No	1.204	No	0.870	No	1.079	No
	Front	0.824	0.331	0.209	0.382	0.047	1.155	No	1.033	No	1.206	No	0.871	No	1.080	No
Hotspot & Airplay	Edge 1	0.737	0.331	0.209	0.382	N/A	1.068	No	0.946	No	1.119	No				
	Edge 2	0.318	0.331	0.209	0.382	N/A	0.649	No	0.527	No	0.700	No				
	Edge 4	0.422	0.331	0.209	0.382	N/A	0.753	No	0.631	No	0.804	No				

12.40. Sum of the SAR for LTE Band 30 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.498	0.350	0.249	0.371	0.042	0.848	No	0.747	No	0.869	No	0.540	No	0.789	No
	Left Tilt	0.216	0.350	0.249	0.371	0.046	0.566	No	0.465	No	0.587	No	0.262	No	0.511	No
	Right Touch	0.322	0.350	0.249	0.371	0.046	0.672	No	0.571	No	0.693	No	0.368	No	0.617	No
	Right Tilt	0.249	0.350	0.249	0.371	0.037	0.599	No	0.498	No	0.620	No	0.286	No	0.535	No
Body-worn & Hotspot & Airplay	Rear	1.080	0.331	0.209	0.382	0.048	1.411	No	1.289	No	1.462	No	1.128	No	1.337	No
	Front	1.040	0.331	0.209	0.382	0.047	1.371	No	1.249	No	1.422	No	1.087	No	1.296	No
Hotspot & Airplay	Edge 2	0.214	0.331	0.209	0.382	N/A	0.545	No	0.423	No	0.596	No				
	Edge 3	0.796	0.331	0.209	0.382	N/A	1.127	No	1.005	No	1.178	No				
	Edge 4	0.927	0.331	0.209	0.382	N/A	1.258	No	1.136	No	1.309	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.41. Sum of the SAR for LTE Band 41 (UAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.511	0.350	0.249	0.371	0.042	0.861	No	0.760	No	0.882	No	0.553	No	0.802	No
	Left Tilt	0.590	0.350	0.249	0.371	0.046	0.940	No	0.839	No	0.961	No	0.636	No	0.885	No
	Right Touch	0.910	0.350	0.249	0.371	0.046	1260	No	1159	No	1281	No	0.956	No	1205	No
	Right Tilt	0.793	0.350	0.249	0.371	0.037	1143	No	1042	No	1164	No	0.830	No	1079	No
Body-worn & Hotspot & Airplay	Rear	0.964	0.331	0.209	0.382	0.048	1295	No	1173	No	1346	No	1012	No	1221	No
	Front	0.427	0.331	0.209	0.382	0.047	0.758	No	0.636	No	0.809	No	0.474	No	0.683	No
Hotspot & Airplay	Edge 1	0.479	0.331	0.209	0.382	N/A	0.810	No	0.688	No	0.861	No				
	Edge 2	0.285	0.331	0.209	0.382	N/A	0.616	No	0.494	No	0.667	No				
	Edge 4	0.516	0.331	0.209	0.382	N/A	0.847	No	0.725	No	0.898	No				

12.42. Sum of the SAR for LTE Band 41 (LAT) & Wi-Fi DTS (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 2.4GHz (UAT)	③ Wi-Fi 2.4GHz (LAT)	④ Wi-Fi 2.4GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ⑤		① + ③ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.447	0.350	0.249	0.371	0.042	0.797	No	0.696	No	0.818	No	0.489	No	0.738	No
	Left Tilt	0.122	0.350	0.249	0.371	0.046	0.472	No	0.371	No	0.493	No	0.168	No	0.417	No
	Right Touch	0.269	0.350	0.249	0.371	0.046	0.619	No	0.518	No	0.640	No	0.315	No	0.564	No
	Right Tilt	0.170	0.350	0.249	0.371	0.037	0.520	No	0.419	No	0.541	No	0.207	No	0.456	No
Body-worn & Hotspot & Airplay	Rear	0.984	0.331	0.209	0.382	0.048	1315	No	1193	No	1366	No	1032	No	1241	No
	Front	0.535	0.331	0.209	0.382	0.047	0.866	No	0.744	No	0.917	No	0.582	No	0.791	No
Hotspot & Airplay	Edge 2	0.313	0.331	0.209	0.382	N/A	0.644	No	0.522	No	0.695	No				
	Edge 3	0.369	0.331	0.209	0.382	N/A	0.700	No	0.578	No	0.751	No				
	Edge 4	0.268	0.331	0.209	0.382	N/A	0.599	No	0.477	No	0.650	No				

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.43. Sum of the SAR for GSM850 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.737	0.360	0.221	0.390	0.042	1.097	No	0.958	No	1.127	No	1.139	No	1.000	No	1.169	No
	Left Tilt	0.456	0.360	0.221	0.390	0.046	0.816	No	0.677	No	0.846	No	0.862	No	0.723	No	0.892	No
	Right Touch	0.682	0.360	0.221	0.390	0.046	1.042	No	0.903	No	1.072	No	1.088	No	0.949	No	1.118	No
	Right Tilt	0.389	0.360	0.221	0.390	0.037	0.749	No	0.610	No	0.779	No	0.786	No	0.647	No	0.816	No
Body-worn Accessory & Airplay	Rear	0.506	0.392	0.248	0.367	0.048	0.898	No	0.754	No	0.873	No	0.946	No	0.802	No	0.921	No
	Front	0.503	0.392	0.248	0.367	0.047	0.895	No	0.751	No	0.870	No	0.942	No	0.798	No	0.917	No
Airplay	Edge 1	0.201	0.392	0.248	0.367	N/A	0.593	No	0.449	No	0.568	No						
	Edge 2	0.644	0.392	0.248	0.367	N/A	1.036	No	0.892	No	1.011	No						
	Edge 4	0.467	0.392	0.248	0.367	N/A	0.859	No	0.715	No	0.834	No						

12.44. Sum of the SAR for GSM850 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.650	0.360	0.221	0.390	0.042	1.010	No	0.871	No	1.040	No	1.052	No	0.913	No	1.082	No
	Left Tilt	0.421	0.360	0.221	0.390	0.046	0.781	No	0.642	No	0.811	No	0.827	No	0.688	No	0.857	No
	Right Touch	0.555	0.360	0.221	0.390	0.046	0.915	No	0.776	No	0.945	No	0.961	No	0.822	No	0.991	No
	Right Tilt	0.446	0.360	0.221	0.390	0.037	0.806	No	0.667	No	0.836	No	0.843	No	0.704	No	0.873	No
Body-worn Accessory & Airplay	Rear	0.950	0.392	0.248	0.367	0.048	1.342	No	1.198	No	1.317	No	1.390	No	1.246	No	1.365	No
	Front	1.060	0.392	0.248	0.367	0.047	1.452	No	1.308	No	1.427	No	1.499	No	1.355	No	1.474	No
Airplay	Edge 2	0.787	0.392	0.248	0.367	N/A	1.179	No	1.035	No	1.154	No						
	Edge 3	0.761	0.392	0.248	0.367	N/A	1.153	No	1.009	No	1.128	No						
	Edge 4	0.885	0.392	0.248	0.367	N/A	1.277	No	1.133	No	1.252	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.45. Sum of the SAR for GSM1900 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.277	0.360	0.221	0.390	0.042	0.637	No	0.498	No	0.667	No	0.679	No	0.540	No	0.709	No
	Left Tilt	0.299	0.360	0.221	0.390	0.046	0.659	No	0.520	No	0.689	No	0.705	No	0.566	No	0.735	No
	Right Touch	0.838	0.360	0.221	0.390	0.046	1.198	No	1.059	No	1.228	No	1.244	No	1.105	No	1.274	No
	Right Tilt	0.692	0.360	0.221	0.390	0.037	1.052	No	0.913	No	1.082	No	1.089	No	0.950	No	1.119	No
Body-worn Accessory & Airplay	Rear	0.834	0.392	0.248	0.367	0.048	1.226	No	1.082	No	1.201	No	1.274	No	1.130	No	1.249	No
	Front	0.872	0.392	0.248	0.367	0.047	1.264	No	1.120	No	1.239	No	1.311	No	1.167	No	1.286	No
Airplay	Edge 1	0.493	0.392	0.248	0.367	N/A	0.885	No	0.741	No	0.860	No						
	Edge 2	0.030	0.392	0.248	0.367	N/A	0.422	No	0.278	No	0.397	No						
	Edge 4	0.342	0.392	0.248	0.367	N/A	0.734	No	0.590	No	0.709	No						

12.46. Sum of the SAR for GSM1900 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.480	0.360	0.221	0.390	0.042	0.840	No	0.701	No	0.870	No	0.882	No	0.743	No	0.912	No
	Left Tilt	0.340	0.360	0.221	0.390	0.046	0.700	No	0.561	No	0.730	No	0.746	No	0.607	No	0.776	No
	Right Touch	0.983	0.360	0.221	0.390	0.046	1.343	No	1.204	No	1.373	No	1.389	No	1.250	No	1.419	No
	Right Tilt	0.284	0.360	0.221	0.390	0.037	0.644	No	0.505	No	0.674	No	0.681	No	0.542	No	0.711	No
Body-worn Accessory & Airplay	Rear	0.995	0.392	0.248	0.367	0.048	1.387	No	1.243	No	1.362	No	1.435	No	1.291	No	1.410	No
	Front	0.987	0.392	0.248	0.367	0.047	1.379	No	1.235	No	1.354	No	1.426	No	1.282	No	1.401	No
Airplay	Edge 2	0.533	0.392	0.248	0.367	N/A	0.925	No	0.781	No	0.900	No						
	Edge 3	0.985	0.392	0.248	0.367	N/A	1.377	No	1.233	No	1.352	No						
	Edge 4	0.094	0.392	0.248	0.367	N/A	0.486	No	0.342	No	0.461	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.47. Sum of the SAR for W-CDMA V (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.785	0.360	0.221	0.390	0.042	1.145	No	1006	No	1.175	No	1.187	No	1048	No	1217	No
	Left Tilt	0.433	0.360	0.221	0.390	0.046	0.793	No	0.654	No	0.823	No	0.839	No	0.700	No	0.869	No
	Right Touch	0.634	0.360	0.221	0.390	0.046	0.994	No	0.855	No	1.024	No	1.040	No	0.901	No	1.070	No
	Right Tilt	0.383	0.360	0.221	0.390	0.037	0.743	No	0.604	No	0.773	No	0.780	No	0.641	No	0.810	No
Body-worn Accessory & Airplay	Rear	0.303	0.392	0.248	0.367	0.048	0.695	No	0.551	No	0.670	No	0.743	No	0.599	No	0.718	No
	Front	0.301	0.392	0.248	0.367	0.047	0.693	No	0.549	No	0.668	No	0.740	No	0.596	No	0.715	No
Airplay	Edge 1	0.125	0.392	0.248	0.367	N/A	0.517	No	0.373	No	0.492	No						
	Edge 2	0.431	0.392	0.248	0.367	N/A	0.823	No	0.679	No	0.798	No						
	Edge 4	0.331	0.392	0.248	0.367	N/A	0.723	No	0.579	No	0.698	No						

12.48. Sum of the SAR for W-CDMA V (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.570	0.360	0.221	0.390	0.042	0.930	No	0.791	No	0.960	No	0.972	No	0.833	No	1002	No
	Left Tilt	0.318	0.360	0.221	0.390	0.046	0.678	No	0.539	No	0.708	No	0.724	No	0.585	No	0.754	No
	Right Touch	0.491	0.360	0.221	0.390	0.046	0.851	No	0.712	No	0.881	No	0.897	No	0.758	No	0.927	No
	Right Tilt	0.306	0.360	0.221	0.390	0.037	0.666	No	0.527	No	0.696	No	0.703	No	0.564	No	0.733	No
Body-worn Accessory & Airplay	Rear	0.926	0.392	0.248	0.367	0.048	1.318	No	1.174	No	1.293	No	1.366	No	1.222	No	1.341	No
	Front	0.951	0.392	0.248	0.367	0.047	1.343	No	1.199	No	1.318	No	1.390	No	1.246	No	1.365	No
Airplay	Edge 2	0.522	0.392	0.248	0.367	N/A	0.914	No	0.770	No	0.889	No						
	Edge 3	0.653	0.392	0.248	0.367	N/A	1.045	No	0.901	No	1.020	No						
	Edge 4	0.476	0.392	0.248	0.367	N/A	0.868	No	0.724	No	0.843	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.49. Sum of the SAR for W-CDMA IV (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.343	0.360	0.221	0.390	0.042	0.703	No	0.564	No	0.733	No	0.745	No	0.606	No	0.775	No
	Left Tilt	0.370	0.360	0.221	0.390	0.046	0.730	No	0.591	No	0.760	No	0.776	No	0.637	No	0.806	No
	Right Touch	0.925	0.360	0.221	0.390	0.046	1285	No	1146	No	1315	No	1331	No	1192	No	1361	No
	Right Tilt	0.728	0.360	0.221	0.390	0.037	1088	No	0.949	No	1118	No	1125	No	0.986	No	1155	No
Body-worn Accessory & Airplay	Rear	0.968	0.392	0.248	0.367	0.048	1360	No	1216	No	1335	No	1408	No	1264	No	1383	No
	Front	0.999	0.392	0.248	0.367	0.047	1391	No	1247	No	1366	No	1438	No	1294	No	1413	No
Airplay	Edge 1	0.922	0.392	0.248	0.367	N/A	1314	No	1170	No	1289	No						
	Edge 2	0.035	0.392	0.248	0.367	N/A	0.427	No	0.283	No	0.402	No						
	Edge 4	0.624	0.392	0.248	0.367	N/A	1016	No	0.872	No	0.991	No						

12.50. Sum of the SAR for W-CDMA IV (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.297	0.360	0.221	0.390	0.042	0.657	No	0.518	No	0.687	No	0.699	No	0.560	No	0.729	No
	Left Tilt	0.180	0.360	0.221	0.390	0.046	0.540	No	0.401	No	0.570	No	0.586	No	0.447	No	0.616	No
	Right Touch	0.668	0.360	0.221	0.390	0.046	1028	No	0.889	No	1058	No	1074	No	0.935	No	1104	No
	Right Tilt	0.181	0.360	0.221	0.390	0.037	0.541	No	0.402	No	0.571	No	0.578	No	0.439	No	0.608	No
Body-worn Accessory & Airplay	Rear	1050	0.392	0.248	0.367	0.048	1442	No	1298	No	1417	No	1490	No	1346	No	1465	No
	Front	0.982	0.392	0.248	0.367	0.047	1374	No	1230	No	1349	No	1421	No	1277	No	1396	No
Airplay	Edge 2	0.393	0.392	0.248	0.367	N/A	0.785	No	0.641	No	0.760	No						
	Edge 3	1.110	0.392	0.248	0.367	N/A	1502	No	1358	No	1477	No						
	Edge 4	0.026	0.392	0.248	0.367	N/A	0.418	No	0.274	No	0.393	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.51. Sum of the SAR for W-CDMA II (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.317	0.360	0.221	0.390	0.042	0.677	No	0.538	No	0.707	No	0.719	No	0.580	No	0.749	No
	Left Tilt	0.322	0.360	0.221	0.390	0.046	0.682	No	0.543	No	0.712	No	0.728	No	0.589	No	0.758	No
	Right Touch	0.939	0.360	0.221	0.390	0.046	1299	No	1160	No	1329	No	1345	No	1206	No	1375	No
	Right Tilt	0.756	0.360	0.221	0.390	0.037	1116	No	0.977	No	1146	No	1153	No	1014	No	1183	No
Body-worn Accessory & Airplay	Rear	0.979	0.392	0.248	0.367	0.048	1371	No	1227	No	1346	No	1419	No	1275	No	1394	No
	Front	0.966	0.392	0.248	0.367	0.047	1358	No	1214	No	1333	No	1405	No	1261	No	1380	No
Airplay	Edge 1	0.745	0.392	0.248	0.367	N/A	1137	No	0.993	No	1112	No						
	Edge 2	0.062	0.392	0.248	0.367	N/A	0.454	No	0.310	No	0.429	No						
	Edge 4	0.588	0.392	0.248	0.367	N/A	0.980	No	0.836	No	0.955	No						

12.52. Sum of the SAR for W-CDMA II (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.675	0.360	0.221	0.390	0.042	1035	No	0.896	No	1065	No	1077	No	0.938	No	1107	No
	Left Tilt	0.451	0.360	0.221	0.390	0.046	0.811	No	0.672	No	0.841	No	0.857	No	0.718	No	0.887	No
	Right Touch	1080	0.360	0.221	0.390	0.046	1440	No	1301	No	1470	No	1486	No	1347	No	1516	No
	Right Tilt	0.377	0.360	0.221	0.390	0.037	0.737	No	0.598	No	0.767	No	0.774	No	0.635	No	0.804	No
Body-worn Accessory & Airplay	Rear	1140	0.392	0.248	0.367	0.048	1532	No	1388	No	1507	No	1580	No	1436	No	1555	No
	Front	0.959	0.392	0.248	0.367	0.047	1351	No	1207	No	1326	No	1398	No	1254	No	1373	No
Airplay	Edge 2	0.631	0.392	0.248	0.367	N/A	1023	No	0.879	No	0.998	No						
	Edge 3	0.927	0.392	0.248	0.367	N/A	1319	No	1175	No	1294	No						
	Edge 4	0.105	0.392	0.248	0.367	N/A	0.497	No	0.353	No	0.472	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.53. Sum of the SAR for CDMA BC0 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.943	0.360	0.221	0.390	0.042	1303	No	1164	No	1333	No	1345	No	1206	No	1375	No
	Left Tilt	0.629	0.360	0.221	0.390	0.046	0.989	No	0.850	No	1019	No	1035	No	0.896	No	1065	No
	Right Touch	0.896	0.360	0.221	0.390	0.046	1256	No	1117	No	1286	No	1302	No	1163	No	1332	No
	Right Tilt	0.594	0.360	0.221	0.390	0.037	0.954	No	0.815	No	0.984	No	0.991	No	0.852	No	1021	No
Body-worn Accessory & Airplay	Rear	0.376	0.392	0.248	0.367	0.048	0.768	No	0.624	No	0.743	No	0.816	No	0.672	No	0.791	No
	Front	0.380	0.392	0.248	0.367	0.047	0.772	No	0.628	No	0.747	No	0.819	No	0.675	No	0.794	No
Airplay	Edge 1	0.163	0.392	0.248	0.367	N/A	0.555	No	0.411	No	0.530	No						
	Edge 2	0.392	0.392	0.248	0.367	N/A	0.784	No	0.640	No	0.759	No						
	Edge 4	0.304	0.392	0.248	0.367	N/A	0.696	No	0.552	No	0.671	No						

12.54. Sum of the SAR for CDMA BC0 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.476	0.360	0.221	0.390	0.042	0.836	No	0.697	No	0.866	No	0.878	No	0.739	No	0.908	No
	Left Tilt	0.251	0.360	0.221	0.390	0.046	0.611	No	0.472	No	0.641	No	0.657	No	0.518	No	0.687	No
	Right Touch	0.387	0.360	0.221	0.390	0.046	0.747	No	0.608	No	0.777	No	0.793	No	0.654	No	0.823	No
	Right Tilt	0.225	0.360	0.221	0.390	0.037	0.585	No	0.446	No	0.615	No	0.622	No	0.483	No	0.652	No
Body-worn Accessory & Airplay	Rear	0.996	0.392	0.248	0.367	0.048	1388	No	1244	No	1363	No	1436	No	1292	No	1411	No
	Front	0.931	0.392	0.248	0.367	0.047	1323	No	1179	No	1298	No	1370	No	1226	No	1345	No
Airplay	Edge 2	0.710	0.392	0.248	0.367	N/A	1102	No	0.958	No	1077	No						
	Edge 3	0.793	0.392	0.248	0.367	N/A	1185	No	1041	No	1160	No						
	Edge 4	0.756	0.392	0.248	0.367	N/A	1148	No	1004	No	1123	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.55. Sum of the SAR for CDMA BC1 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.332	0.360	0.221	0.390	0.042	0.692	No	0.553	No	0.722	No	0.734	No	0.595	No	0.764	No
	Left Tilt	0.349	0.360	0.221	0.390	0.046	0.709	No	0.570	No	0.739	No	0.755	No	0.616	No	0.785	No
	Right Touch	0.988	0.360	0.221	0.390	0.046	1348	No	1209	No	1378	No	1394	No	1255	No	1424	No
	Right Tilt	0.770	0.360	0.221	0.390	0.037	1130	No	0.991	No	1160	No	1167	No	1028	No	1197	No
Body-worn Accessory & Airplay	Rear	0.981	0.392	0.248	0.367	0.048	1373	No	1229	No	1348	No	1421	No	1277	No	1396	No
	Front	0.965	0.392	0.248	0.367	0.047	1357	No	1213	No	1332	No	1404	No	1260	No	1379	No
Airplay	Edge 1	0.971	0.392	0.248	0.367	N/A	1363	No	1219	No	1338	No						
	Edge 2	0.068	0.392	0.248	0.367	N/A	0.460	No	0.316	No	0.435	No						
	Edge 4	0.773	0.392	0.248	0.367	N/A	1165	No	1021	No	1140	No						

12.56. Sum of the SAR for CDMA BC1 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.557	0.360	0.221	0.390	0.042	0.917	No	0.778	No	0.947	No	0.959	No	0.820	No	0.989	No
	Left Tilt	0.450	0.360	0.221	0.390	0.046	0.810	No	0.671	No	0.840	No	0.856	No	0.717	No	0.886	No
	Right Touch	1.140	0.360	0.221	0.390	0.046	1500	No	1361	No	1530	No	1546	No	1407	No	1576	No
	Right Tilt	0.351	0.360	0.221	0.390	0.037	0.711	No	0.572	No	0.741	No	0.748	No	0.609	No	0.778	No
Body-worn Accessory & Airplay	Rear	1.130	0.392	0.248	0.367	0.048	1522	No	1378	No	1497	No	1570	No	1426	No	1545	No
	Front	1.010	0.392	0.248	0.367	0.047	1402	No	1258	No	1377	No	1449	No	1305	No	1424	No
Airplay	Edge 2	0.545	0.392	0.248	0.367	N/A	0.937	No	0.793	No	0.912	No						
	Edge 3	0.942	0.392	0.248	0.367	N/A	1334	No	1190	No	1309	No						
	Edge 4	0.104	0.392	0.248	0.367	N/A	0.496	No	0.352	No	0.471	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.57. Sum of the SAR for CDMA BC10 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.712	0.360	0.221	0.390	0.042	1072	No	0.933	No	1102	No	1114	No	0.975	No	1144	No
	Left Tilt	0.389	0.360	0.221	0.390	0.046	0.749	No	0.610	No	0.779	No	0.795	No	0.656	No	0.825	No
	Right Touch	0.612	0.360	0.221	0.390	0.046	0.972	No	0.833	No	1002	No	1018	No	0.879	No	1048	No
	Right Tilt	0.322	0.360	0.221	0.390	0.037	0.682	No	0.543	No	0.712	No	0.719	No	0.580	No	0.749	No
Body-worn Accessory & Airplay	Rear	0.258	0.392	0.248	0.367	0.048	0.650	No	0.506	No	0.625	No	0.698	No	0.554	No	0.673	No
	Front	0.250	0.392	0.248	0.367	0.047	0.642	No	0.498	No	0.617	No	0.689	No	0.545	No	0.664	No
Airplay	Edge 1	0.093	0.392	0.248	0.367	N/A	0.485	No	0.341	No	0.460	No						
	Edge 2	0.412	0.392	0.248	0.367	N/A	0.804	No	0.660	No	0.779	No						
	Edge 4	0.307	0.392	0.248	0.367	N/A	0.699	No	0.555	No	0.674	No						

12.58. Sum of the SAR for CDMA BC10 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.581	0.360	0.221	0.390	0.042	0.941	No	0.802	No	0.971	No	0.983	No	0.844	No	1013	No
	Left Tilt	0.387	0.360	0.221	0.390	0.046	0.747	No	0.608	No	0.777	No	0.793	No	0.654	No	0.823	No
	Right Touch	0.492	0.360	0.221	0.390	0.046	0.852	No	0.713	No	0.882	No	0.898	No	0.759	No	0.928	No
	Right Tilt	0.371	0.360	0.221	0.390	0.037	0.731	No	0.592	No	0.761	No	0.768	No	0.629	No	0.798	No
Body-worn Accessory & Airplay	Rear	0.878	0.392	0.248	0.367	0.048	1270	No	1126	No	1245	No	1318	No	1174	No	1293	No
	Front	1.100	0.392	0.248	0.367	0.047	1492	No	1348	No	1467	No	1539	No	1395	No	1514	No
Airplay	Edge 2	0.421	0.392	0.248	0.367	N/A	0.813	No	0.669	No	0.788	No						
	Edge 3	0.375	0.392	0.248	0.367	N/A	0.767	No	0.623	No	0.742	No						
	Edge 4	0.868	0.392	0.248	0.367	N/A	1260	No	1116	No	1235	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.59. Sum of the SAR for CDMA BC15 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.350	0.360	0.221	0.390	0.042	0.710	No	0.571	No	0.740	No	0.752	No	0.613	No	0.782	No
	Left Tilt	0.327	0.360	0.221	0.390	0.046	0.687	No	0.548	No	0.717	No	0.733	No	0.594	No	0.763	No
	Right Touch	0.924	0.360	0.221	0.390	0.046	1284	No	1145	No	1314	No	1330	No	1191	No	1360	No
	Right Tilt	0.721	0.360	0.221	0.390	0.037	1081	No	0.942	No	1111	No	1118	No	0.979	No	1148	No
Body-worn Accessory & Airplay	Rear	0.699	0.392	0.248	0.367	0.048	1091	No	0.947	No	1066	No	1139	No	0.995	No	1114	No
	Front	0.781	0.392	0.248	0.367	0.047	1173	No	1029	No	1148	No	1220	No	1076	No	1195	No
Airplay	Edge 1	0.762	0.392	0.248	0.367	N/A	1154	No	1010	No	1129	No						
	Edge 2	0.027	0.392	0.248	0.367	N/A	0.419	No	0.275	No	0.394	No						
	Edge 4	0.495	0.392	0.248	0.367	N/A	0.887	No	0.743	No	0.862	No						

12.60. Sum of the SAR for CDMA BC15 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.332	0.360	0.221	0.390	0.042	0.692	No	0.553	No	0.722	No	0.734	No	0.595	No	0.764	No
	Left Tilt	0.226	0.360	0.221	0.390	0.046	0.586	No	0.447	No	0.616	No	0.632	No	0.493	No	0.662	No
	Right Touch	0.742	0.360	0.221	0.390	0.046	1102	No	0.963	No	1132	No	1148	No	1009	No	1178	No
	Right Tilt	0.212	0.360	0.221	0.390	0.037	0.572	No	0.433	No	0.602	No	0.609	No	0.470	No	0.639	No
Body-worn Accessory & Airplay	Rear	0.982	0.392	0.248	0.367	0.048	1374	No	1230	No	1349	No	1422	No	1278	No	1397	No
	Front	0.884	0.392	0.248	0.367	0.047	1276	No	1132	No	1251	No	1323	No	1179	No	1298	No
Airplay	Edge 2	0.377	0.392	0.248	0.367	N/A	0.769	No	0.625	No	0.744	No						
	Edge 3	0.926	0.392	0.248	0.367	N/A	1318	No	1174	No	1293	No						
	Edge 4	0.082	0.392	0.248	0.367	N/A	0.474	No	0.330	No	0.449	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.61. Sum of the SAR for LTE Band 2 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.351	0.360	0.221	0.390	0.042	0.711	No	0.572	No	0.741	No	0.753	No	0.614	No	0.783	No
	Left Tilt	0.373	0.360	0.221	0.390	0.046	0.733	No	0.594	No	0.763	No	0.779	No	0.640	No	0.809	No
	Right Touch	0.931	0.360	0.221	0.390	0.046	1291	No	1152	No	1321	No	1337	No	1198	No	1367	No
	Right Tilt	0.882	0.360	0.221	0.390	0.037	1242	No	1103	No	1272	No	1279	No	1140	No	1309	No
Body-worn Accessory & Airplay	Rear	0.869	0.392	0.248	0.367	0.048	1261	No	1117	No	1236	No	1309	No	1165	No	1284	No
	Front	0.966	0.392	0.248	0.367	0.047	1358	No	1214	No	1333	No	1405	No	1261	No	1380	No
Airplay	Edge 1	0.933	0.392	0.248	0.367	N/A	1325	No	1181	No	1300	No						
	Edge 2	0.066	0.392	0.248	0.367	N/A	0.458	No	0.314	No	0.433	No						
	Edge 4	0.588	0.392	0.248	0.367	N/A	0.980	No	0.836	No	0.955	No						

12.62. Sum of the SAR for LTE Band 2 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.505	0.360	0.221	0.390	0.042	0.865	No	0.726	No	0.895	No	0.907	No	0.768	No	0.937	No
	Left Tilt	0.413	0.360	0.221	0.390	0.046	0.773	No	0.634	No	0.803	No	0.819	No	0.680	No	0.849	No
	Right Touch	0.898	0.360	0.221	0.390	0.046	1258	No	1119	No	1288	No	1304	No	1165	No	1334	No
	Right Tilt	0.305	0.360	0.221	0.390	0.037	0.665	No	0.526	No	0.695	No	0.702	No	0.563	No	0.732	No
Body-worn Accessory & Airplay	Rear	1.110	0.392	0.248	0.367	0.048	1502	No	1358	No	1477	No	1550	No	1406	No	1525	No
	Front	0.908	0.392	0.248	0.367	0.047	1300	No	1156	No	1275	No	1347	No	1203	No	1322	No
Airplay	Edge 2	0.545	0.392	0.248	0.367	N/A	0.937	No	0.793	No	0.912	No						
	Edge 3	0.894	0.392	0.248	0.367	N/A	1286	No	1142	No	1261	No						
	Edge 4	0.124	0.392	0.248	0.367	N/A	0.516	No	0.372	No	0.491	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.63. Sum of the SAR for LTE Band 4 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.348	0.360	0.221	0.390	0.042	0.708	No	0.569	No	0.738	No	0.750	No	0.611	No	0.780	No
	Left Tilt	0.363	0.360	0.221	0.390	0.046	0.723	No	0.584	No	0.753	No	0.769	No	0.630	No	0.799	No
	Right Touch	0.966	0.360	0.221	0.390	0.046	1326	No	1187	No	1356	No	1372	No	1233	No	1402	No
	Right Tilt	0.715	0.360	0.221	0.390	0.037	1075	No	0.936	No	1105	No	1112	No	0.973	No	1142	No
Body-worn Accessory & Airplay	Rear	0.888	0.392	0.248	0.367	0.048	1280	No	1136	No	1255	No	1328	No	1184	No	1303	No
	Front	0.971	0.392	0.248	0.367	0.047	1363	No	1219	No	1338	No	1410	No	1266	No	1385	No
Airplay	Edge 1	0.990	0.392	0.248	0.367	N/A	1382	No	1238	No	1357	No						
	Edge 2	0.052	0.392	0.248	0.367	N/A	0.444	No	0.300	No	0.419	No						
	Edge 4	0.559	0.392	0.248	0.367	N/A	0.951	No	0.807	No	0.926	No						

12.64. Sum of the SAR for LTE Band 4 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.213	0.360	0.221	0.390	0.042	0.573	No	0.434	No	0.603	No	0.615	No	0.476	No	0.645	No
	Left Tilt	0.161	0.360	0.221	0.390	0.046	0.521	No	0.382	No	0.551	No	0.567	No	0.428	No	0.597	No
	Right Touch	0.460	0.360	0.221	0.390	0.046	0.820	No	0.681	No	0.850	No	0.866	No	0.727	No	0.896	No
	Right Tilt	0.157	0.360	0.221	0.390	0.037	0.517	No	0.378	No	0.547	No	0.554	No	0.415	No	0.584	No
Body-worn Accessory & Airplay	Rear	0.897	0.392	0.248	0.367	0.048	1289	No	1145	No	1264	No	1337	No	1193	No	1312	No
	Front	0.899	0.392	0.248	0.367	0.047	1291	No	1147	No	1266	No	1338	No	1194	No	1313	No
Airplay	Edge 2	0.430	0.392	0.248	0.367	N/A	0.822	No	0.678	No	0.797	No						
	Edge 3	1030	0.392	0.248	0.367	N/A	1422	No	1278	No	1397	No						
	Edge 4	0.034	0.392	0.248	0.367	N/A	0.426	No	0.282	No	0.401	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.65. Sum of the SAR for LTE Band 5 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.578	0.360	0.221	0.390	0.042	0.938	No	0.799	No	0.968	No	0.980	No	0.841	No	1010	No
	Left Tilt	0.344	0.360	0.221	0.390	0.046	0.704	No	0.565	No	0.734	No	0.750	No	0.611	No	0.780	No
	Right Touch	0.496	0.360	0.221	0.390	0.046	0.856	No	0.717	No	0.886	No	0.902	No	0.763	No	0.932	No
	Right Tilt	0.282	0.360	0.221	0.390	0.037	0.642	No	0.503	No	0.672	No	0.679	No	0.540	No	0.709	No
Body-worn Accessory & Airplay	Rear	0.246	0.392	0.248	0.367	0.048	0.638	No	0.494	No	0.613	No	0.686	No	0.542	No	0.661	No
	Front	0.214	0.392	0.248	0.367	0.047	0.606	No	0.462	No	0.581	No	0.653	No	0.509	No	0.628	No
Airplay	Edge 1	0.093	0.392	0.248	0.367	N/A	0.485	No	0.341	No	0.460	No						
	Edge 2	0.383	0.392	0.248	0.367	N/A	0.775	No	0.631	No	0.750	No						
	Edge 4	0.116	0.392	0.248	0.367	N/A	0.508	No	0.364	No	0.483	No						

12.66. Sum of the SAR for LTE Band 5 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.362	0.360	0.221	0.390	0.042	0.722	No	0.583	No	0.752	No	0.764	No	0.625	No	0.794	No
	Left Tilt	0.210	0.360	0.221	0.390	0.046	0.570	No	0.431	No	0.600	No	0.616	No	0.477	No	0.646	No
	Right Touch	0.293	0.360	0.221	0.390	0.046	0.653	No	0.514	No	0.683	No	0.699	No	0.560	No	0.729	No
	Right Tilt	0.225	0.360	0.221	0.390	0.037	0.585	No	0.446	No	0.615	No	0.622	No	0.483	No	0.652	No
Body-worn Accessory & Airplay	Rear	0.615	0.392	0.248	0.367	0.048	1007	No	0.863	No	0.982	No	1055	No	0.911	No	1030	No
	Front	0.721	0.392	0.248	0.367	0.047	1113	No	0.969	No	1088	No	1160	No	1016	No	1135	No
Airplay	Edge 2	0.327	0.392	0.248	0.367	N/A	0.719	No	0.575	No	0.694	No						
	Edge 3	0.497	0.392	0.248	0.367	N/A	0.889	No	0.745	No	0.864	No						
	Edge 4	0.785	0.392	0.248	0.367	N/A	1177	No	1033	No	1152	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.67. Sum of the SAR for LTE Band 7 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.734	0.360	0.221	0.390	0.042	1094	No	0.955	No	1124	No	1136	No	0.997	No	1166	No
	Left Tilt	0.700	0.360	0.221	0.390	0.046	1060	No	0.921	No	1090	No	1106	No	0.967	No	1136	No
	Right Touch	0.994	0.360	0.221	0.390	0.046	1354	No	1215	No	1384	No	1400	No	1261	No	1430	No
	Right Tilt	0.959	0.360	0.221	0.390	0.037	1319	No	1180	No	1349	No	1356	No	1217	No	1386	No
Body-worn Accessory & Airplay	Rear	0.985	0.392	0.248	0.367	0.048	1377	No	1233	No	1352	No	1425	No	1281	No	1400	No
	Front	0.574	0.392	0.248	0.367	0.047	0.966	No	0.822	No	0.941	No	1013	No	0.869	No	0.988	No
Airplay	Edge 1	0.421	0.392	0.248	0.367	N/A	0.813	No	0.669	No	0.788	No						
	Edge 2	0.267	0.392	0.248	0.367	N/A	0.659	No	0.515	No	0.634	No						
	Edge 4	0.345	0.392	0.248	0.367	N/A	0.737	No	0.593	No	0.712	No						

12.68. Sum of the SAR for LTE Band 7 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	① + ②		① + ③		① + ④		① + ② + ⑤		① + ③ + ⑤		① + ④ + ⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.994	0.360	0.221	0.390	0.042	1354	No	1215	No	1384	No	1396	No	1257	No	1426	No
	Left Tilt	0.270	0.360	0.221	0.390	0.046	0.630	No	0.491	No	0.660	No	0.676	No	0.537	No	0.706	No
	Right Touch	0.531	0.360	0.221	0.390	0.046	0.891	No	0.752	No	0.921	No	0.937	No	0.798	No	0.967	No
	Right Tilt	0.414	0.360	0.221	0.390	0.037	0.774	No	0.635	No	0.804	No	0.811	No	0.672	No	0.841	No
Body-worn Accessory & Airplay	Rear	1.140	0.392	0.248	0.367	0.048	1532	No	1388	No	1507	No	1580	No	1436	No	1555	No
	Front	0.836	0.392	0.248	0.367	0.047	1228	No	1084	No	1203	No	1275	No	1131	No	1250	No
Airplay	Edge 2	0.119	0.392	0.248	0.367	N/A	0.511	No	0.367	No	0.486	No						
	Edge 3	0.555	0.392	0.248	0.367	N/A	0.947	No	0.803	No	0.922	No						
	Edge 4	0.656	0.392	0.248	0.367	N/A	1048	No	0.904	No	1023	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.69. Sum of the SAR for LTE Band 12 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.613	0.360	0.221	0.390	0.042	0.973	No	0.834	No	1003	No	1015	No	0.876	No	1045	No
	Left Tilt	0.488	0.360	0.221	0.390	0.046	0.848	No	0.709	No	0.878	No	0.894	No	0.755	No	0.924	No
	Right Touch	0.610	0.360	0.221	0.390	0.046	0.970	No	0.831	No	1000	No	1016	No	0.877	No	1046	No
	Right Tilt	0.451	0.360	0.221	0.390	0.037	0.811	No	0.672	No	0.841	No	0.848	No	0.709	No	0.878	No
Body-worn Accessory & Airplay	Rear	0.276	0.392	0.248	0.367	0.048	0.668	No	0.524	No	0.643	No	0.716	No	0.572	No	0.691	No
	Front	0.265	0.392	0.248	0.367	0.047	0.657	No	0.513	No	0.632	No	0.704	No	0.560	No	0.679	No
Airplay	Edge 1	0.139	0.392	0.248	0.367	N/A	0.531	No	0.387	No	0.506	No						
	Edge 2	0.332	0.392	0.248	0.367	N/A	0.724	No	0.580	No	0.699	No						
	Edge 4	0.182	0.392	0.248	0.367	N/A	0.574	No	0.430	No	0.549	No						

12.70. Sum of the SAR for LTE Band 12 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.227	0.360	0.221	0.390	0.042	0.587	No	0.448	No	0.617	No	0.629	No	0.490	No	0.659	No
	Left Tilt	0.075	0.360	0.221	0.390	0.046	0.435	No	0.296	No	0.465	No	0.481	No	0.342	No	0.511	No
	Right Touch	0.181	0.360	0.221	0.390	0.046	0.541	No	0.402	No	0.571	No	0.587	No	0.448	No	0.617	No
	Right Tilt	0.097	0.360	0.221	0.390	0.037	0.457	No	0.318	No	0.487	No	0.494	No	0.355	No	0.524	No
Body-worn Accessory & Airplay	Rear	0.500	0.392	0.248	0.367	0.048	0.892	No	0.748	No	0.867	No	0.940	No	0.796	No	0.915	No
	Front	0.518	0.392	0.248	0.367	0.047	0.910	No	0.766	No	0.885	No	0.957	No	0.813	No	0.932	No
Airplay	Edge 2	0.281	0.392	0.248	0.367	N/A	0.673	No	0.529	No	0.648	No						
	Edge 3	0.452	0.392	0.248	0.367	N/A	0.844	No	0.700	No	0.819	No						
	Edge 4	0.569	0.392	0.248	0.367	N/A	0.961	No	0.817	No	0.936	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.71. Sum of the SAR for LTE Band 13 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.758	0.360	0.221	0.390	0.042	1.18	No	0.979	No	1.148	No	1.160	No	1.021	No	1.190	No
	Left Tilt	0.528	0.360	0.221	0.390	0.046	0.888	No	0.749	No	0.918	No	0.934	No	0.795	No	0.964	No
	Right Touch	0.637	0.360	0.221	0.390	0.046	0.997	No	0.858	No	1.027	No	1.043	No	0.904	No	1.073	No
	Right Tilt	0.490	0.360	0.221	0.390	0.037	0.850	No	0.711	No	0.880	No	0.887	No	0.748	No	0.917	No
Body-worn Accessory & Airplay	Rear	0.262	0.392	0.248	0.367	0.048	0.654	No	0.510	No	0.629	No	0.702	No	0.558	No	0.677	No
	Front	0.263	0.392	0.248	0.367	0.047	0.655	No	0.511	No	0.630	No	0.702	No	0.558	No	0.677	No
Airplay	Edge 1	0.186	0.392	0.248	0.367	N/A	0.578	No	0.434	No	0.553	No						
	Edge 2	0.379	0.392	0.248	0.367	N/A	0.771	No	0.627	No	0.746	No						
	Edge 4	0.151	0.392	0.248	0.367	N/A	0.543	No	0.399	No	0.518	No						

12.72. Sum of the SAR for LTE Band 13 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.299	0.360	0.221	0.390	0.042	0.659	No	0.520	No	0.689	No	0.701	No	0.562	No	0.731	No
	Left Tilt	0.130	0.360	0.221	0.390	0.046	0.490	No	0.351	No	0.520	No	0.536	No	0.397	No	0.566	No
	Right Touch	0.263	0.360	0.221	0.390	0.046	0.623	No	0.484	No	0.653	No	0.669	No	0.530	No	0.699	No
	Right Tilt	0.151	0.360	0.221	0.390	0.037	0.511	No	0.372	No	0.541	No	0.548	No	0.409	No	0.578	No
Body-worn Accessory & Airplay	Rear	0.585	0.392	0.248	0.367	0.048	0.977	No	0.833	No	0.952	No	1.025	No	0.881	No	1.000	No
	Front	0.650	0.392	0.248	0.367	0.047	1.042	No	0.898	No	1.017	No	1.089	No	0.945	No	1.064	No
Airplay	Edge 2	0.335	0.392	0.248	0.367	N/A	0.727	No	0.583	No	0.702	No						
	Edge 3	0.553	0.392	0.248	0.367	N/A	0.945	No	0.801	No	0.920	No						
	Edge 4	0.744	0.392	0.248	0.367	N/A	1.136	No	0.992	No	1.111	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.73. Sum of the SAR for LTE Band 17 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.678	0.360	0.221	0.390	0.042	1038	No	0.899	No	1068	No	1080	No	0.941	No	1110	No
	Left Tilt	0.483	0.360	0.221	0.390	0.046	0.843	No	0.704	No	0.873	No	0.889	No	0.750	No	0.919	No
	Right Touch	0.566	0.360	0.221	0.390	0.046	0.926	No	0.787	No	0.956	No	0.972	No	0.833	No	1002	No
	Right Tilt	0.484	0.360	0.221	0.390	0.037	0.844	No	0.705	No	0.874	No	0.881	No	0.742	No	0.911	No
Body-worn Accessory & Airplay	Rear	0.280	0.392	0.248	0.367	0.048	0.672	No	0.528	No	0.647	No	0.720	No	0.576	No	0.695	No
	Front	0.306	0.392	0.248	0.367	0.047	0.698	No	0.554	No	0.673	No	0.745	No	0.601	No	0.720	No
Airplay	Edge 1	0.160	0.392	0.248	0.367	N/A	0.552	No	0.408	No	0.527	No						
	Edge 2	0.356	0.392	0.248	0.367	N/A	0.748	No	0.604	No	0.723	No						
	Edge 4	0.195	0.392	0.248	0.367	N/A	0.587	No	0.443	No	0.562	No						

12.74. Sum of the SAR for LTE Band 17 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.222	0.360	0.221	0.390	0.042	0.582	No	0.443	No	0.612	No	0.624	No	0.485	No	0.654	No
	Left Tilt	0.078	0.360	0.221	0.390	0.046	0.438	No	0.299	No	0.468	No	0.484	No	0.345	No	0.514	No
	Right Touch	0.181	0.360	0.221	0.390	0.046	0.541	No	0.402	No	0.571	No	0.587	No	0.448	No	0.617	No
	Right Tilt	0.076	0.360	0.221	0.390	0.037	0.436	No	0.297	No	0.466	No	0.473	No	0.334	No	0.503	No
Body-worn Accessory & Airplay	Rear	0.494	0.392	0.248	0.367	0.048	0.886	No	0.742	No	0.861	No	0.934	No	0.790	No	0.909	No
	Front	0.593	0.392	0.248	0.367	0.047	0.985	No	0.841	No	0.960	No	1032	No	0.888	No	1007	No
Airplay	Edge 2	0.273	0.392	0.248	0.367	N/A	0.665	No	0.521	No	0.640	No						
	Edge 3	0.448	0.392	0.248	0.367	N/A	0.840	No	0.696	No	0.815	No						
	Edge 4	0.567	0.392	0.248	0.367	N/A	0.959	No	0.815	No	0.934	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.75. Sum of the SAR for LTE Band 25 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.310	0.360	0.221	0.390	0.042	0.670	No	0.531	No	0.700	No	0.712	No	0.573	No	0.742	No
	Left Tilt	0.310	0.360	0.221	0.390	0.046	0.670	No	0.531	No	0.700	No	0.716	No	0.577	No	0.746	No
	Right Touch	0.935	0.360	0.221	0.390	0.046	1295	No	1156	No	1325	No	1341	No	1202	No	1371	No
	Right Tilt	0.792	0.360	0.221	0.390	0.037	1152	No	1013	No	1182	No	1189	No	1050	No	1219	No
Body-worn Accessory & Airplay	Rear	0.860	0.392	0.248	0.367	0.048	1252	No	1108	No	1227	No	1300	No	1156	No	1275	No
	Front	0.885	0.392	0.248	0.367	0.047	1277	No	1133	No	1252	No	1324	No	1180	No	1299	No
Airplay	Edge 1	0.874	0.392	0.248	0.367	N/A	1266	No	1122	No	1241	No						
	Edge 2	0.062	0.392	0.248	0.367	N/A	0.454	No	0.310	No	0.429	No						
	Edge 4	0.510	0.392	0.248	0.367	N/A	0.902	No	0.758	No	0.877	No						

12.76. Sum of the SAR for LTE Band 25 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.433	0.360	0.221	0.390	0.042	0.793	No	0.654	No	0.823	No	0.835	No	0.696	No	0.865	No
	Left Tilt	0.399	0.360	0.221	0.390	0.046	0.759	No	0.620	No	0.789	No	0.805	No	0.666	No	0.835	No
	Right Touch	1020	0.360	0.221	0.390	0.046	1380	No	1241	No	1410	No	1426	No	1287	No	1456	No
	Right Tilt	0.351	0.360	0.221	0.390	0.037	0.711	No	0.572	No	0.741	No	0.748	No	0.609	No	0.778	No
Body-worn Accessory & Airplay	Rear	1020	0.392	0.248	0.367	0.048	1412	No	1268	No	1387	No	1460	No	1316	No	1435	No
	Front	0.988	0.392	0.248	0.367	0.047	1380	No	1236	No	1355	No	1427	No	1283	No	1402	No
Airplay	Edge 2	0.546	0.392	0.248	0.367	N/A	0.938	No	0.794	No	0.913	No						
	Edge 3	0.873	0.392	0.248	0.367	N/A	1265	No	1121	No	1240	No						
	Edge 4	0.116	0.392	0.248	0.367	N/A	0.508	No	0.364	No	0.483	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.77. Sum of the SAR for LTE Band 26 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.442	0.360	0.221	0.390	0.042	0.802	No	0.663	No	0.832	No	0.844	No	0.705	No	0.874	No
	Left Tilt	0.274	0.360	0.221	0.390	0.046	0.634	No	0.495	No	0.664	No	0.680	No	0.541	No	0.710	No
	Right Touch	0.421	0.360	0.221	0.390	0.046	0.781	No	0.642	No	0.811	No	0.827	No	0.688	No	0.857	No
	Right Tilt	0.211	0.360	0.221	0.390	0.037	0.571	No	0.432	No	0.601	No	0.608	No	0.469	No	0.638	No
Body-worn Accessory & Airplay	Rear	0.187	0.392	0.248	0.367	0.048	0.579	No	0.435	No	0.554	No	0.627	No	0.483	No	0.602	No
	Front	0.169	0.392	0.248	0.367	0.047	0.561	No	0.417	No	0.536	No	0.608	No	0.464	No	0.583	No
Airplay	Edge 1	0.070	0.392	0.248	0.367	N/A	0.462	No	0.318	No	0.437	No						
	Edge 2	0.189	0.392	0.248	0.367	N/A	0.581	No	0.437	No	0.556	No						
	Edge 4	0.086	0.392	0.248	0.367	N/A	0.478	No	0.334	No	0.453	No						

12.78. Sum of the SAR for LTE Band 26 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.293	0.360	0.221	0.390	0.042	0.653	No	0.514	No	0.683	No	0.695	No	0.556	No	0.725	No
	Left Tilt	0.158	0.360	0.221	0.390	0.046	0.518	No	0.379	No	0.548	No	0.564	No	0.425	No	0.594	No
	Right Touch	0.255	0.360	0.221	0.390	0.046	0.615	No	0.476	No	0.645	No	0.661	No	0.522	No	0.691	No
	Right Tilt	0.155	0.360	0.221	0.390	0.037	0.515	No	0.376	No	0.545	No	0.552	No	0.413	No	0.582	No
Body-worn Accessory & Airplay	Rear	0.507	0.392	0.248	0.367	0.048	0.899	No	0.755	No	0.874	No	0.947	No	0.803	No	0.922	No
	Front	0.585	0.392	0.248	0.367	0.047	0.977	No	0.833	No	0.952	No	1024	No	0.880	No	0.999	No
Airplay	Edge 2	0.283	0.392	0.248	0.367	N/A	0.675	No	0.531	No	0.650	No						
	Edge 3	0.353	0.392	0.248	0.367	N/A	0.745	No	0.601	No	0.720	No						
	Edge 4	0.614	0.392	0.248	0.367	N/A	1006	No	0.862	No	0.981	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.79. Sum of the SAR for LTE Band 30 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.356	0.360	0.221	0.390	0.042	0.716	No	0.577	No	0.746	No	0.758	No	0.619	No	0.788	No
	Left Tilt	0.418	0.360	0.221	0.390	0.046	0.778	No	0.639	No	0.808	No	0.824	No	0.685	No	0.854	No
	Right Touch	0.841	0.360	0.221	0.390	0.046	1201	No	1062	No	1231	No	1247	No	1108	No	1277	No
	Right Tilt	0.963	0.360	0.221	0.390	0.037	1323	No	1184	No	1353	No	1360	No	1221	No	1390	No
Body-worn Accessory & Airplay	Rear	0.822	0.392	0.248	0.367	0.048	1214	No	1070	No	1189	No	1262	No	1118	No	1237	No
	Front	0.824	0.392	0.248	0.367	0.047	1216	No	1072	No	1191	No	1263	No	1119	No	1238	No
Airplay	Edge 1	0.737	0.392	0.248	0.367	N/A	1129	No	0.985	No	1104	No						
	Edge 2	0.318	0.392	0.248	0.367	N/A	0.710	No	0.566	No	0.685	No						
	Edge 4	0.422	0.392	0.248	0.367	N/A	0.814	No	0.670	No	0.789	No						

12.80. Sum of the SAR for LTE Band 30 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.498	0.360	0.221	0.390	0.042	0.858	No	0.719	No	0.888	No	0.900	No	0.761	No	0.930	No
	Left Tilt	0.216	0.360	0.221	0.390	0.046	0.576	No	0.437	No	0.606	No	0.622	No	0.483	No	0.652	No
	Right Touch	0.322	0.360	0.221	0.390	0.046	0.682	No	0.543	No	0.712	No	0.728	No	0.589	No	0.758	No
	Right Tilt	0.249	0.360	0.221	0.390	0.037	0.609	No	0.470	No	0.639	No	0.646	No	0.507	No	0.676	No
Body-worn Accessory & Airplay	Rear	1080	0.392	0.248	0.367	0.048	1472	No	1328	No	1447	No	1520	No	1376	No	1495	No
	Front	1040	0.392	0.248	0.367	0.047	1432	No	1288	No	1407	No	1479	No	1335	No	1454	No
Airplay	Edge 2	0.214	0.392	0.248	0.367	N/A	0.606	No	0.462	No	0.581	No						
	Edge 3	0.796	0.392	0.248	0.367	N/A	1188	No	1044	No	1163	No						
	Edge 4	0.927	0.392	0.248	0.367	N/A	1319	No	1175	No	1294	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.81. Sum of the SAR for LTE Band 41 (UAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.511	0.360	0.221	0.390	0.042	0.871	No	0.732	No	0.901	No	0.913	No	0.774	No	0.943	No
	Left Tilt	0.590	0.360	0.221	0.390	0.046	0.950	No	0.811	No	0.980	No	0.996	No	0.857	No	1026	No
	Right Touch	0.910	0.360	0.221	0.390	0.046	1270	No	1131	No	1300	No	1316	No	1177	No	1346	No
	Right Tilt	0.793	0.360	0.221	0.390	0.037	1153	No	1014	No	1183	No	1190	No	1051	No	1220	No
Body-worn Accessory & Airplay	Rear	0.964	0.392	0.248	0.367	0.048	1356	No	1212	No	1331	No	1404	No	1260	No	1379	No
	Front	0.427	0.392	0.248	0.367	0.047	0.819	No	0.675	No	0.794	No	0.866	No	0.722	No	0.841	No
Airplay	Edge 1	0.479	0.392	0.248	0.367	N/A	0.871	No	0.727	No	0.846	No						
	Edge 2	0.285	0.392	0.248	0.367	N/A	0.677	No	0.533	No	0.652	No						
	Edge 4	0.516	0.392	0.248	0.367	N/A	0.908	No	0.764	No	0.883	No						

12.82. Sum of the SAR for LTE Band 41 (LAT) & Wi-Fi UNII (Cell On) & BT(P_{low})

RF Exposure Conditions	Test Position	① WWAN	② Wi-Fi 5GHz (UAT)	③ Wi-Fi 5GHz (LAT)	④ Wi-Fi 5GHz (MIMO)	⑤ Bluetooth (P _{low})	①+②		①+③		①+④		①+②+⑤		①+③+⑤		①+④+⑤	
							Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1g SAR (mW/g)	SPLSR (Yes/ No)
Head	Left Touch	0.447	0.360	0.221	0.390	0.042	0.807	No	0.668	No	0.837	No	0.849	No	0.710	No	0.879	No
	Left Tilt	0.122	0.360	0.221	0.390	0.046	0.482	No	0.343	No	0.512	No	0.528	No	0.389	No	0.558	No
	Right Touch	0.269	0.360	0.221	0.390	0.046	0.629	No	0.490	No	0.659	No	0.675	No	0.536	No	0.705	No
	Right Tilt	0.170	0.360	0.221	0.390	0.037	0.530	No	0.391	No	0.560	No	0.567	No	0.428	No	0.597	No
Body-worn Accessory & Airplay	Rear	0.984	0.392	0.248	0.367	0.048	1376	No	1232	No	1351	No	1424	No	1280	No	1399	No
	Front	0.535	0.392	0.248	0.367	0.047	0.927	No	0.783	No	0.902	No	0.974	No	0.830	No	0.949	No
Airplay	Edge 2	0.313	0.392	0.248	0.367	N/A	0.705	No	0.561	No	0.680	No						
	Edge 3	0.369	0.392	0.248	0.367	N/A	0.761	No	0.617	No	0.736	No						
	Edge 4	0.268	0.392	0.248	0.367	N/A	0.660	No	0.516	No	0.635	No						

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the either sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Appendixes

Refer to separated files for the following appendixes.

A_15U20164v0 SAR Photos (STC_180days)

B_15U20164v2 SAR System Check Plots

C_15U20164v2 SAR Highest Test Plots

D_15U20164v0 SAR Tissue Ingredients

E_15U20164v1 SAR Probe Cal. Certificates

F_15U20164v1 SAR Dipole Cal. Certificates

END OF REPORT