



SAR EVALUATION REPORT

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

For
Cellular Phone with Bluetooth and WLAN Radios

**FCC ID: BCG-E3042A
Model Name: A1723, A1724**

**Report Number: 15U21635-S1V2
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Revision History

Rev.	Date	Revisions	Revised By
V1	1/22/2016	Initial Issue	--
V2	2/2/2016	Report revised based on Reviewer's comments: 1. Sec. 6.4., 8., 9.4., 10.17., 12.33., 12.34. : additional testing for LTE Band 26 at 10MHz Bandwidth 2. Sec. 6., 7., 8.1., 9.4., 10.20., 12.1., : Updated per reviewer's comments 3. Sec. 1 & 10.20.: ch. 159 corrected 4. Added Sec. 12.37. 5. Appendix B & C: updated for additional testing of LTE 26 and corrected ch.159 body plot	Kenneth Mak

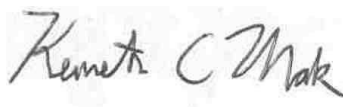
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1. Attestation of Test Results

Applicant Name	APPLE, INC.			
FCC ID	BCG-E3042A			
Model Name	A1723, A1724			
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013			
Exposure Category	SAR Limits (W/Kg) Peak spatial-average(1g of tissue)			
General population / Uncontrolled exposure	1.6			
RF Exposure Conditions	Equipment Class - Highest Reported SAR (W/kg)			
	Licensed	DTS	U-NII	DSS (BT)
Head	1.140	1.173	1.160	0.047
Body-worn	1.140	1.090	1.170	0.043
Hotspot	1.140	1.090	1.170	N/A
Simultaneous TX	1.586	1.571	1.586	1.586
Simultaneous TX	Head	1.586	1.571	1.586
	Body-worn	1.577	1.564	1.577
	Hotspot	1.564	1.564	N/A
Date Tested	12/7/2015 to 1/14/2016; 1/28/2016 to 1/29/2016			
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 v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 690783 D01 SAR Listings on Grants v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01

3. Facilities and Accreditation

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

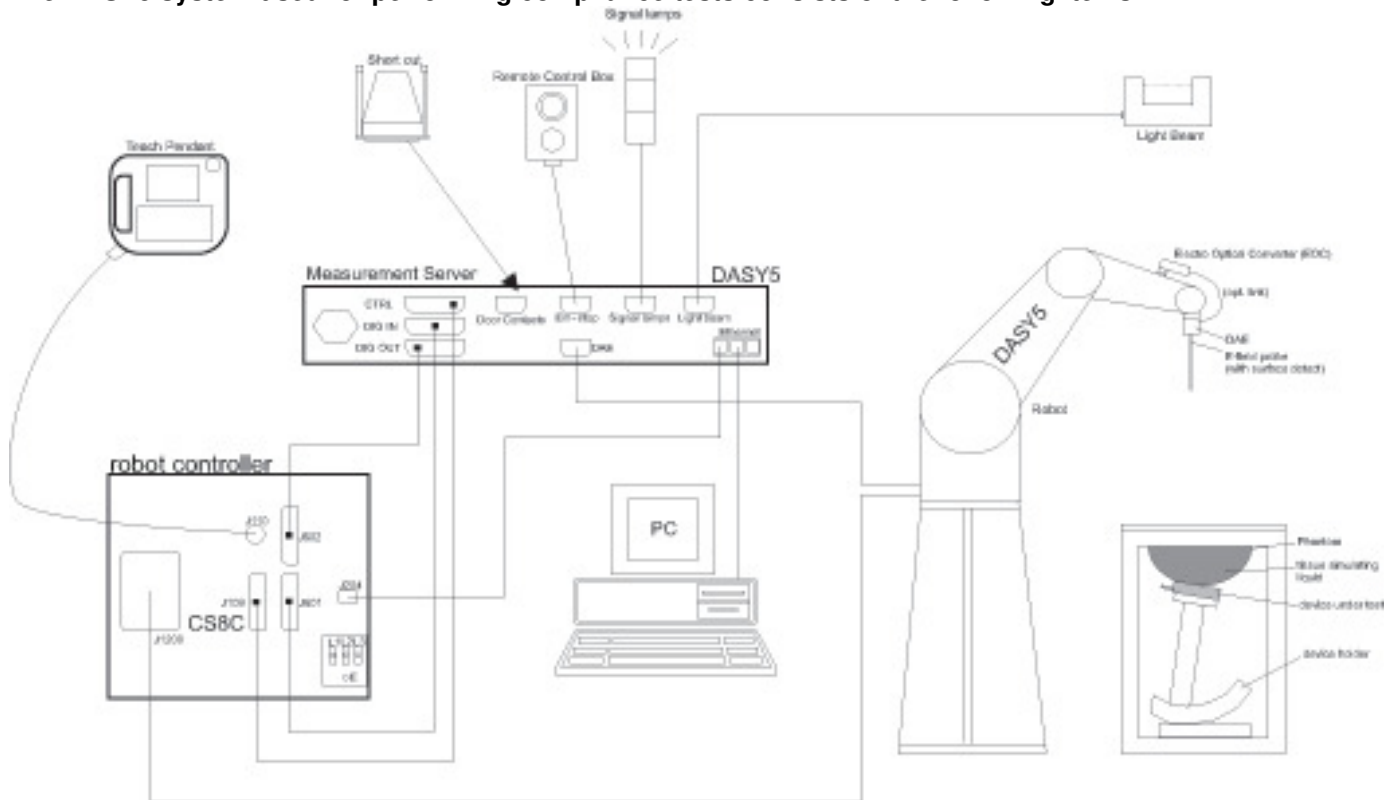
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	
SAR Lab F	
SAR Lab G	
SAR Lab H	

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	MY40000980	4/17/2016
Dielectric Probe kit	SPEAG	DAK-3.5	1082	9/15/2016
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Traceable Calibration Control Co.	4242	140562250	8/24/2016

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	HP	8665B	3744A01084	5/8/2016
Power Meter	Keysight Technologies	N1912A	MY55196004	7/1/2016
Power Meter	Agilent	N1912A	MY50001018	10/19/2016
Power Sensor	Agilent	E9323A	MY53070007	3/2/2016
Power Sensor	Agilent	E9323A	MY53070005	4/29/2016
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	3125U16345	6/15/2016
Power Meter	HP	437B	3125U12345	7/31/2016
Power Sensor	HP	8481A	2702A76223	9/3/2016
Power Sensor	HP	8481A	1926A27048	8/3/2016
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 B)	SPEAG	EX3DV4	3686	8/28/2016
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3772	2/23/2016
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	3929	4/22/2016
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 B)	SPEAG	DAE4	1360	3/12/2016
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1439	7/30/2016
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	1024	5/12/2016
System Validation Dipole	SPEAG	D835V2	4d002	11/12/2016
System Validation Dipole	SPEAG	D1750V2	1053	8/11/2016
System Validation Dipole	SPEAG	D1900V2	5d043	11/17/2016
System Validation Dipole	SPEAG	D1900V2	5d163	9/21/2016
System Validation Dipole	SPEAG	D2450V2	748	2/20/2016
System Validation Dipole	SPEAG	D2450V2	706	5/11/2016
System Validation Dipole	SPEAG	D2600V2	1006	9/21/2016
System Validation Dipole	SPEAG	D5GHzV2	1138	9/23/2016
System Validation Dipole	SPEAG	D5GHzV2	1168	11/13/2016
System Validation Dipole	SPEAG	D5GHzV2	1003	2/20/2016
Thermometer (SAR Lab B)	EXTECH	445703	CCS-206	3/19/2016
Thermometer (SAR Lab E, F, G, H)	EXTECH	445703	CCS-235	6/5/2016

Other

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Keysight	N1912A	MY55196004	7/1/2016
Power Sensor	Agilent	N1921A	MY5320001	9/24/2016
Base Station Simulator	R & S	CMW500	137877	8/10/2016
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	124593	7/15/2016
Base Station Simulator	R & S	CMW500	134852	5/13/2016
Base Station Simulator	R & S	CMW500	135393	3/18/2016

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 EUT, Model A1723, A1724 is a mobile phone with multimedia functions (music, application support, and video), cellular GSM/GPRS/EGPRS/WCDMA/HSPA+/DC-HSDPA/LTE radio, IEEE 802.11a/b/g/n/ac, NFC and Bluetooth radio.

Device Dimension	Overall (Length x Width): 123.9 mm x 58.5 mm Overall Diagonal: 131.2 mm Display Diagonal: 102.8 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 17 FDD Band 25 FDD Band 26 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 from Tune-up Procedure

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	Max. RF Output Power (dBm)							
		UAT				LAT			
		Head		Body		Head		Body	
		Burst	Frame	Burst	Frame	Burst	Frame	Burst	Frame
GSM850	Voice/GPRS (1 slot)	33.2	24.2	33.2	24.2	33.5	24.5	33.5	24.5
	GPRS 2 slots	30.2	24.2	30.2	24.2	30.5	24.5	30.5	24.5
	EGPRS 1 slot	27.7	18.7	27.7	18.7	28.0	19.0	28.0	19.0
	EGPRS 2 slots	27.7	21.7	27.7	21.7	28.0	22.0	28.0	22.0
GSM1900	Voice/GPRS (1 slot)	29.9	20.9	29.9	20.9	30.5	21.5	29.0	20.0
	GPRS 2 slots	26.9	20.9	26.9	20.9	27.5	21.5	26.0	20.0
	EGPRS 1 slot	26.4	17.4	26.4	17.4	27.0	18.0	27.0	18.0
	EGPRS 2 slots	26.4	20.4	26.4	20.4	27.0	21.0	26.0	20.0

RF Air interface	Mode	Max. RF Output Power (dBm)			
		UAT		LAT	
		Head	Body	Head	Body
W-CDMA Band V	R99	24.7	24.7	25.0	24.3
	HSDPA	24.7	24.7	25.0	24.3
	HSUPA	24.7	24.7	25.0	24.3
	DC-HSDPA	24.7	24.7	25.0	24.3
W-CDMA Band IV	R99	22.3	24.4	22.7	19.5
	HSDPA	22.3	24.4	22.7	19.5
	HSUPA	22.3	24.4	22.7	19.5
	DC-HSDPA	22.3	24.4	22.7	19.5
W-CDMA Band II	R99	21.7	22.5	22.5	18.3
	HSDPA	21.7	22.5	22.5	18.3
	HSUPA	21.7	22.5	22.5	18.3
	DC-HSDPA	21.7	22.5	22.5	18.3
CDMA BC0	1xRTT	24.7	24.7	25.0	24.3
	1xAdvanced	24.7	24.7	25.0	24.3
	1xEVDO Rel. 0	24.7	24.7	25.0	24.3
	1xEVDO Rev. A	24.7	24.7	25.0	24.3
CDMA BC1	1xRTT	21.0	22.0	22.3	18.5
	1xAdvanced	21.0	22.0	22.3	18.5
	1xEVDO Rel. 0	21.0	22.0	22.3	18.5
	1xEVDO Rev. A	21.0	22.0	22.3	18.5
CDMA BC10	1xRTT	24.7	24.7	25.0	24.3
	1xAdvanced	24.7	24.7	25.0	24.3
	1xEVDO Rel. 0	24.7	24.7	25.0	24.3
	1xEVDO Rev. A	24.7	24.7	25.0	24.3
CDMA BC15	1xRTT	22.0	23.7	23.0	19.5
	1xAdvanced	22.0	23.7	23.0	19.5
	1xEVDO Rel. 0	22.0	23.7	23.0	19.5
	1xEVDO Rev. A	22.0	23.7	23.0	19.5
LTE Band 2	QPSK	21.5	22.5	22.0	18.0
	16QAM	20.5	21.5	21.0	17.0
LTE Band 4	QPSK	23.0	23.4	23.0	19.5
	16QAM	22.0	22.4	22.0	18.5
LTE Band 5	QPSK	23.7	23.7	24.0	24.0
	16QAM	22.7	22.7	23.0	23.0
LTE Band 7	QPSK	18.7	19.0	22.5	18.7
	16QAM	17.7	18.0	21.5	17.7
LTE Band 12	QPSK	23.7	23.7	24.0	24.0
	16QAM	22.7	22.7	23.0	23.0
LTE Band 17	QPSK	23.7	23.7	24.0	24.0
	16QAM	22.7	22.7	23.0	23.0
LTE Band 25	QPSK	21.5	22.0	22.0	18.7
	16QAM	20.5	21.0	21.0	17.7
LTE Band 26	QPSK	23.7	23.7	24.0	24.0
	16QAM	22.7	22.7	23.0	23.0
LTE Band 41	QPSK	22.0	21.5	22.5	21.0
	16QAM	21.0	20.5	21.5	20.0
RF Air interface	Mode	Max. RF Output Power (dBm)			
Bluetooth		11.5			

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Pow er (dBm)				SAR Test (Yes/No)
					Head		Body		
					Cell ON	Cell OFF	Cell ON	Cell OFF	
2.4	802.11b	1 Tx	1	2412	13.0	17.0	14.5	18.5	Yes
			6	2437	13.0	17.0	14.5	18.5	
			11	2462	13.0	17.0	14.5	18.5	
			12	2467	13.0	17.0	14.5	18.0	
			13	2472	13.0	15.0	14.5	15.0	
	802.11g	1 Tx	1	2412	13.0	16.0	14.5	16.0	No
			2	2417	13.0	17.0	14.5	18.5	
			3	2422	13.0	17.0	14.5	18.5	
			6	2437	13.0	17.0	14.5	18.5	
			9	2452	13.0	17.0	14.5	18.5	
			10	2457	13.0	17.0	14.5	17.5	
			11	2462	13.0	14.0	14.0	14.0	
			12	2467	13.0	12.0	12.0	12.0	
	13	2472	13.0	5.0	5.0	5.0			
	802.11n	1 Tx HT20	1	2412	13.0	16.0	14.5	16.0	No
			2	2417	13.0	17.0	14.5	18.5	
			3	2422	13.0	17.0	14.5	18.5	
			6	2437	13.0	17.0	14.5	18.5	
			9	2452	13.0	17.0	14.5	18.5	
			10	2457	13.0	17.0	14.5	17.5	
			11	2462	13.0	14.0	14.0	14.0	
			12	2467	13.0	12.0	12.0	12.0	
			13	2472	13.0	5.0	5.0	5.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Head		Body		
					Cell ON	Cell OFF	Cell ON	Cell OFF	
5.2	802.11a	1 Tx	36	5180	13.0	18.0	12.5	17.5	No
			40	5200	13.0	18.0	12.5	17.5	
			44	5220	13.0	18.0	12.5	17.5	
			48	5240	13.0	18.0	12.5	17.5	
	802.11n	1 Tx HT20	36	5180	13.0	18.0	12.5	17.5	No
			40	5200	13.0	18.0	12.5	17.5	
			44	5220	13.0	18.0	12.5	17.5	
			48	5240	13.0	18.0	12.5	17.5	
		1 Tx HT40	38	5190	13.0	16.0	12.5	16.0	Yes
			46	5230	13.0	18.0	12.5	17.5	
	802.11ac	1 Tx VHT20	36	5180	13.0	18.0	12.5	17.5	No
			40	5200	13.0	18.0	12.5	17.5	
			44	5220	13.0	18.0	12.5	17.5	
			48	5240	13.0	18.0	12.5	17.5	
		1 Tx VHT40	38	5190	13.0	16.0	12.5	16.0	No
			46	5230	13.0	18.0	12.5	17.5	
		1 Tx VHT80	42	5210	13.0	15.0	12.5	15.0	Yes

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Head		Body		
					Cell ON	Cell OFF	Cell ON	Cell OFF	
5.3	802.11a	1 Tx	52	5260	12.5	17.5	13.0	17.5	No
			56	5280	12.5	17.5	13.0	17.5	
			60	5300	12.5	17.5	13.0	17.5	
			64	5320	12.5	17.5	13.0	17.5	
	802.11n	1 Tx HT20	52	5260	12.5	17.5	13.0	17.5	No
			56	5280	12.5	17.5	13.0	17.5	
			60	5300	12.5	17.5	13.0	17.5	
			64	5320	12.5	17.5	13.0	17.5	
		1 Tx HT40	54	5270	12.5	17.5	13.0	17.5	Yes
			62	5310	12.5	16.0	13.0	16.0	
	802.11ac	1 Tx VHT20	52	5260	12.5	17.5	13.0	17.5	No
			56	5280	12.5	17.5	13.0	17.5	
			60	5300	12.5	17.5	13.0	17.5	
			64	5320	12.5	17.5	13.0	17.5	
		1 Tx VHT40	54	5270	12.5	17.5	13.0	17.5	No
			62	5310	12.5	16.0	13.0	16.0	
		1 Tx VHT80	58	5290	12.5	16.0	13.0	16.0	Yes

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Head		Body		
					Cell ON	Cell OFF	Cell ON	Cell OFF	
5.5	802.11a	1 Tx	100	5500	12.0	16.5	12.5	17.0	No
			104	5520	12.0	16.5	12.5	17.0	
			108	5540	12.0	16.5	12.5	17.0	
			112	5560	12.0	16.5	12.5	17.0	
			116	5580	12.0	16.5	12.5	17.0	
			120	5600	12.0	16.5	12.5	17.0	
			124	5620	12.0	16.5	12.5	17.0	
			128	5640	12.0	16.5	12.5	17.0	
			132	5660	12.0	16.5	12.5	17.0	
			136	5680	12.0	16.5	12.5	17.0	
			140	5700	12.0	15.0	12.5	15.0	
			144	5720	12.0	16.5	12.5	17.0	
	802.11n	1 Tx HT20	100	5500	12.0	16.5	12.5	17.0	No
			104	5520	12.0	16.5	12.5	17.0	
			108	5540	12.0	16.5	12.5	17.0	
			112	5560	12.0	16.5	12.5	17.0	
			116	5580	12.0	16.5	12.5	17.0	
			120	5600	12.0	16.5	12.5	17.0	
			124	5620	12.0	16.5	12.5	17.0	
			128	5640	12.0	16.5	12.5	17.0	
			132	5660	12.0	16.5	12.5	17.0	
			136	5680	12.0	16.5	12.5	17.0	
			140	5700	12.0	15.0	12.5	15.0	
			144	5720	12.0	16.5	12.5	17.0	
		1 Tx HT40	102	5510	12.0	16.0	12.5	16.0	No
			110	5550	12.0	16.5	12.5	17.0	
			118	5590	12.0	16.5	12.5	17.0	
			126	5630	12.0	16.5	12.5	17.0	
			134	5670	12.0	16.5	12.5	17.0	
			142	5710	12.0	16.5	12.5	17.0	
	802.11ac	1 Tx VHT20	100	5500	12.0	16.5	12.5	17.0	No
			104	5520	12.0	16.5	12.5	17.0	
			108	5540	12.0	16.5	12.5	17.0	
			112	5560	12.0	16.5	12.5	17.0	
			116	5580	12.0	16.5	12.5	17.0	
			120	5600	12.0	16.5	12.5	17.0	
124			5620	12.0	16.5	12.5	17.0		
128			5640	12.0	16.5	12.5	17.0		
132			5660	12.0	16.5	12.5	17.0		
136			5680	12.0	16.5	12.5	17.0		
140			5700	12.0	15.0	12.5	15.0		
144			5720	12.0	16.5	12.5	17.0		
1 Tx VHT40		102	5510	12.0	16.0	12.5	16.0	No	
		110	5550	12.0	16.5	12.5	17.0		
		118	5590	12.0	16.5	12.5	17.0		
		126	5630	12.0	16.5	12.5	17.0		
		134	5670	12.0	16.5	12.5	17.0		
		142	5710	12.0	16.5	12.5	17.0		
1 Tx VHT80		106	5530	12.0	15.5	12.5	15.5	Yes	
		122	5610	12.0	16.5	12.5	17.0		
		138	5690	12.0	16.5	12.5	17.0		

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Head		Body		
					Cell ON	Cell OFF	Cell ON	Cell OFF	
5.8	802.11a	1 Tx	149	5745	12.0	16.5	12.0	16.5	No
			153	5765	12.0	16.5	12.0	17.0	
			157	5785	12.0	16.5	12.0	17.0	
			161	5805	12.0	16.5	12.0	17.0	
			165	5825	12.0	16.5	12.0	17.0	
	802.11n	1 Tx HT20	149	5745	12.0	16.5	12.0	16.5	No
			153	5765	12.0	16.5	12.0	17.0	
			157	5785	12.0	16.5	12.0	17.0	
			161	5805	12.0	16.5	12.0	17.0	
			165	5825	12.0	16.5	12.0	17.0	
		1 Tx HT40	151	5755	12.0	15.5	12.0	15.5	Yes
			159	5795	12.0	16.5	12.0	17.0	
	802.11ac	1 Tx VHT20	149	5745	12.0	16.5	12.0	16.5	No
			153	5765	12.0	16.5	12.0	17.0	
			157	5785	12.0	16.5	12.0	17.0	
			161	5805	12.0	16.5	12.0	17.0	
			165	5825	12.0	16.5	12.0	17.0	
		1 Tx VHT40	151	5755	12.0	15.5	12.0	15.5	No
			159	5795	12.0	16.5	12.0	17.0	
		1 Tx VHT80	155	5775	12.0	15.0	12.0	15.0	Yes

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	1.4 MHz
	Low	18700/ 1860	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5	18607/ 1850.7
	Mid	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	19100/ 1900	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5	19193/ 1909.3
	Band 4	Frequency range: 1710 - 1755 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	20175/ 1732.5	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	20393/ 1754.3
	Band 5	Frequency range: 824 - 849 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	Frequency range: 2500 - 2570 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 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	1.4 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3

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				23755/ 706.5																																																
	Mid			23790/ 710	23790/ 710																																																
	High				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 - 849 MHz																																																			
		Channel Bandwidth																																																			
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz																																														
	Low			26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7																																														
	Mid			26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5																																														
	High			26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3																																														
	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																																																			
	Low-Mid	40185 / 2549.5																																																			
	Mid	40620 / 2593.0																																																			
	Mid-High	41055 / 2636.5																																																			
	High	41490 / 2680.0																																																			
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><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3</th></tr><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							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
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																																														
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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

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

$T_s = 1/(15000 \times 2048)$ 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-worn	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	

Wi-Fi Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
Wi-Fi 2.4 & 5GHz	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-worn	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	

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	

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 B**

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
12/15/2015	Head 750	e'	41.3700	Relative Permittivity (ϵ_r):	41.37	41.96	-1.41	5
		e"	21.4300	Conductivity (σ):	0.89	0.89	0.07	5
	Head 700	e'	42.0100	Relative Permittivity (ϵ_r):	42.01	42.22	-0.49	5
		e"	21.7900	Conductivity (σ):	0.85	0.89	-4.62	5
	Head 790	e'	40.8400	Relative Permittivity (ϵ_r):	40.84	41.76	-2.19	5
		e"	21.1700	Conductivity (σ):	0.93	0.90	3.77	5
12/15/2015	Body 750	e'	54.0600	Relative Permittivity (ϵ_r):	54.06	55.55	-2.68	5
		e"	23.0300	Conductivity (σ):	0.96	0.96	-0.28	5
	Body 700	e'	54.5900	Relative Permittivity (ϵ_r):	54.59	55.74	-2.06	5
		e"	23.4400	Conductivity (σ):	0.91	0.96	-4.89	5
	Body 790	e'	53.6600	Relative Permittivity (ϵ_r):	53.66	55.39	-3.13	5
		e"	22.6800	Conductivity (σ):	1.00	0.97	3.12	5
12/21/2015	Body 750	e'	57.0400	Relative Permittivity (ϵ_r):	57.04	55.55	2.69	5
		e"	23.2500	Conductivity (σ):	0.97	0.96	0.68	5
	Body 700	e'	57.5400	Relative Permittivity (ϵ_r):	57.54	55.74	3.23	5
		e"	23.7100	Conductivity (σ):	0.92	0.96	-3.79	5
	Body 790	e'	56.6300	Relative Permittivity (ϵ_r):	56.63	55.39	2.23	5
		e"	22.8800	Conductivity (σ):	1.01	0.97	4.02	5
12/22/2015	Body 1900	e'	52.2900	Relative Permittivity (ϵ_r):	52.29	53.30	-1.89	5
		e"	14.8400	Conductivity (σ):	1.57	1.52	3.14	5
	Body 1850	e'	52.4600	Relative Permittivity (ϵ_r):	52.46	53.30	-1.58	5
		e"	14.7700	Conductivity (σ):	1.52	1.52	-0.04	5
	Body 1910	e'	52.2600	Relative Permittivity (ϵ_r):	52.26	53.30	-1.95	5
		e"	14.8300	Conductivity (σ):	1.57	1.52	3.62	5
12/28/2015	Head 1900	e'	39.6000	Relative Permittivity (ϵ_r):	39.60	40.00	-1.00	5
		e"	13.7000	Conductivity (σ):	1.45	1.40	3.38	5
	Head 1850	e'	39.7300	Relative Permittivity (ϵ_r):	39.73	40.00	-0.68	5
		e"	13.7000	Conductivity (σ):	1.41	1.40	0.66	5
	Head 1910	e'	39.5600	Relative Permittivity (ϵ_r):	39.56	40.00	-1.10	5
		e"	13.7200	Conductivity (σ):	1.46	1.40	4.08	5
1/9/2016	Head 5180	e'	36.4600	Relative Permittivity (ϵ_r):	36.46	36.01	1.24	5
		e"	15.5700	Conductivity (σ):	4.48	4.63	-3.15	5
	Head 5200	e'	36.4400	Relative Permittivity (ϵ_r):	36.44	35.99	1.25	5
		e"	15.5400	Conductivity (σ):	4.49	4.65	-3.39	5
	Head 5600	e'	35.8800	Relative Permittivity (ϵ_r):	35.88	35.53	0.97	5
		e"	15.7100	Conductivity (σ):	4.89	5.06	-3.33	5
	Head 5800	e'	35.5900	Relative Permittivity (ϵ_r):	35.59	35.30	0.82	5
		e"	15.8200	Conductivity (σ):	5.10	5.27	-3.19	5
	Head 5825	e'	35.5700	Relative Permittivity (ϵ_r):	35.57	35.30	0.76	5
		e"	15.8300	Conductivity (σ):	5.13	5.27	-2.71	5

SAR Lab E

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
12/7/2015	Head 5180	e'	37.1500	Relative Permittivity (ϵ_r):	37.15	36.01	3.16	5
		e"	15.9500	Conductivity (σ):	4.59	4.63	-0.79	5
	Head 5200	e'	37.1600	Relative Permittivity (ϵ_r):	37.16	35.99	3.25	5
		e"	15.9400	Conductivity (σ):	4.61	4.65	-0.91	5
	Head 5600	e'	36.6600	Relative Permittivity (ϵ_r):	36.66	35.53	3.17	5
		e"	15.9500	Conductivity (σ):	4.97	5.06	-1.85	5
	Head 5800	e'	36.3200	Relative Permittivity (ϵ_r):	36.32	35.30	2.89	5
		e"	16.0400	Conductivity (σ):	5.17	5.27	-1.84	5
	Head 5825	e'	36.2900	Relative Permittivity (ϵ_r):	36.29	35.30	2.80	5
		e"	16.0300	Conductivity (σ):	5.19	5.27	-1.48	5
12/7/2015	Body 5180	e'	47.9800	Relative Permittivity (ϵ_r):	47.98	49.05	-2.17	5
		e"	18.3500	Conductivity (σ):	5.29	5.27	0.26	5
	Body 5200	e'	47.9300	Relative Permittivity (ϵ_r):	47.93	49.02	-2.22	5
		e"	18.3500	Conductivity (σ):	5.31	5.29	0.21	5
	Body 5600	e'	47.3700	Relative Permittivity (ϵ_r):	47.37	48.48	-2.29	5
		e"	18.7500	Conductivity (σ):	5.84	5.76	1.34	5
	Body 5800	e'	47.1200	Relative Permittivity (ϵ_r):	47.12	48.20	-2.24	5
		e"	19.0300	Conductivity (σ):	6.14	6.00	2.29	5
	Body 5825	e'	47.1100	Relative Permittivity (ϵ_r):	47.11	48.20	-2.26	5
		e"	19.0300	Conductivity (σ):	6.16	6.00	2.73	5
12/10/2015	Head 5180	e'	36.0200	Relative Permittivity (ϵ_r):	36.02	36.01	0.02	5
		e"	15.6500	Conductivity (σ):	4.51	4.63	-2.65	5
	Head 5200	e'	35.9400	Relative Permittivity (ϵ_r):	35.94	35.99	-0.14	5
		e"	15.6500	Conductivity (σ):	4.52	4.65	-2.71	5
	Head 5600	e'	35.4200	Relative Permittivity (ϵ_r):	35.42	35.53	-0.32	5
		e"	15.8700	Conductivity (σ):	4.94	5.06	-2.35	5
	Head 5800	e'	35.2400	Relative Permittivity (ϵ_r):	35.24	35.30	-0.17	5
		e"	15.9300	Conductivity (σ):	5.14	5.27	-2.52	5
	Head 5825	e'	35.1100	Relative Permittivity (ϵ_r):	35.11	35.30	-0.54	5
		e"	15.9000	Conductivity (σ):	5.15	5.27	-2.28	5
12/10/2015	Body 5180	e'	48.4500	Relative Permittivity (ϵ_r):	48.45	49.05	-1.22	5
		e"	18.2700	Conductivity (σ):	5.26	5.27	-0.17	5
	Body 5200	e'	48.3800	Relative Permittivity (ϵ_r):	48.38	49.02	-1.30	5
		e"	18.3000	Conductivity (σ):	5.29	5.29	-0.07	5
	Body 5600	e'	47.7300	Relative Permittivity (ϵ_r):	47.73	48.48	-1.54	5
		e"	18.6200	Conductivity (σ):	5.80	5.76	0.64	5
	Body 5800	e'	47.4900	Relative Permittivity (ϵ_r):	47.49	48.20	-1.47	5
		e"	18.7400	Conductivity (σ):	6.04	6.00	0.73	5
	Body 5825	e'	47.3500	Relative Permittivity (ϵ_r):	47.35	48.20	-1.76	5
		e"	18.7600	Conductivity (σ):	6.08	6.00	1.27	5

SAR Lab E (continued)

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
12/14/2015	Head 5180	e'	34.6500	Relative Permittivity (ϵ_r):	34.65	36.01	-3.78	5
		e"	15.4700	Conductivity (σ):	4.46	4.63	-3.77	5
	Head 5200	e'	34.6100	Relative Permittivity (ϵ_r):	34.61	35.99	-3.83	5
		e"	15.4600	Conductivity (σ):	4.47	4.65	-3.89	5
	Head 5600	e'	34.0300	Relative Permittivity (ϵ_r):	34.03	35.53	-4.23	5
		e"	15.6100	Conductivity (σ):	4.86	5.06	-3.95	5
	Head 5800	e'	33.7600	Relative Permittivity (ϵ_r):	33.76	35.30	-4.36	5
		e"	15.7300	Conductivity (σ):	5.07	5.27	-3.74	5
	Head 5825	e'	33.7400	Relative Permittivity (ϵ_r):	33.74	35.30	-4.42	5
		e"	15.7400	Conductivity (σ):	5.10	5.27	-3.26	5
12/14/2015	Body 5180	e'	47.9200	Relative Permittivity (ϵ_r):	47.92	49.05	-2.30	5
		e"	18.8100	Conductivity (σ):	5.42	5.27	2.78	5
	Body 5200	e'	47.8700	Relative Permittivity (ϵ_r):	47.87	49.02	-2.35	5
		e"	18.7900	Conductivity (σ):	5.43	5.29	2.61	5
	Body 5600	e'	47.0600	Relative Permittivity (ϵ_r):	47.06	48.48	-2.92	5
		e"	19.1600	Conductivity (σ):	5.97	5.76	3.56	5
	Body 5800	e'	46.6900	Relative Permittivity (ϵ_r):	46.69	48.20	-3.13	5
		e"	19.4300	Conductivity (σ):	6.27	6.00	4.44	5
	Body 5825	e'	46.6900	Relative Permittivity (ϵ_r):	46.69	48.20	-3.13	5
		e"	19.4400	Conductivity (σ):	6.30	6.00	4.94	5
12/17/2015	Head 1750	e'	38.2700	Relative Permittivity (ϵ_r):	38.27	40.08	-4.53	5
		e"	13.6700	Conductivity (σ):	1.33	1.37	-2.83	5
	Head 1710	e'	38.4100	Relative Permittivity (ϵ_r):	38.41	40.15	-4.32	5
		e"	13.5600	Conductivity (σ):	1.29	1.35	-4.24	5
	Head 1755	e'	38.2500	Relative Permittivity (ϵ_r):	38.25	40.08	-4.56	5
		e"	13.6700	Conductivity (σ):	1.33	1.37	-2.76	5
12/17/2015	Body 1750	e'	51.1500	Relative Permittivity (ϵ_r):	51.15	53.44	-4.29	5
		e"	15.0500	Conductivity (σ):	1.46	1.49	-1.46	5
	Body 1710	e'	51.2300	Relative Permittivity (ϵ_r):	51.23	53.54	-4.32	5
		e"	15.0100	Conductivity (σ):	1.43	1.46	-2.35	5
	Body 1755	e'	51.1400	Relative Permittivity (ϵ_r):	51.14	53.43	-4.28	5
		e"	15.0600	Conductivity (σ):	1.47	1.49	-1.32	5
12/21/2015	Head 1750	e'	39.6400	Relative Permittivity (ϵ_r):	39.64	40.08	-1.11	5
		e"	14.2100	Conductivity (σ):	1.38	1.37	1.00	5
	Head 1710	e'	39.8200	Relative Permittivity (ϵ_r):	39.82	40.15	-0.81	5
		e"	14.0700	Conductivity (σ):	1.34	1.35	-0.64	5
	Head 1755	e'	39.6200	Relative Permittivity (ϵ_r):	39.62	40.08	-1.14	5
		e"	14.2200	Conductivity (σ):	1.39	1.37	1.15	5
12/21/2015	Body 1750	e'	52.9500	Relative Permittivity (ϵ_r):	52.95	53.44	-0.92	5
		e"	15.2200	Conductivity (σ):	1.48	1.49	-0.35	5
	Body 1710	e'	53.0500	Relative Permittivity (ϵ_r):	53.05	53.54	-0.92	5
		e"	15.1500	Conductivity (σ):	1.44	1.46	-1.44	5
	Body 1755	e'	52.9200	Relative Permittivity (ϵ_r):	52.92	53.43	-0.95	5
		e"	15.2300	Conductivity (σ):	1.49	1.49	-0.20	5

SAR Lab E (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
12/28/2015	Head 1750	e'	39.3400	Relative Permittivity (ϵ_r):	39.34	40.08	-1.86	5
		e"	14.2900	Conductivity (σ):	1.39	1.37	1.57	5
	Head 1710	e'	39.4800	Relative Permittivity (ϵ_r):	39.48	40.15	-1.66	5
		e"	14.1300	Conductivity (σ):	1.34	1.35	-0.22	5
	Head 1755	e'	39.3200	Relative Permittivity (ϵ_r):	39.32	40.08	-1.89	5
		e"	14.2900	Conductivity (σ):	1.39	1.37	1.65	5
12/28/2015	Body 1750	e'	52.7200	Relative Permittivity (ϵ_r):	52.72	53.44	-1.35	5
		e"	15.2300	Conductivity (σ):	1.48	1.49	-0.28	5
	Body 1710	e'	52.7800	Relative Permittivity (ϵ_r):	52.78	53.54	-1.43	5
		e"	15.1200	Conductivity (σ):	1.44	1.46	-1.64	5
	Body 1755	e'	52.7200	Relative Permittivity (ϵ_r):	52.72	53.43	-1.33	5
		e"	15.2300	Conductivity (σ):	1.49	1.49	-0.20	5
1/4/2016	Head 1750	e'	38.4500	Relative Permittivity (ϵ_r):	38.45	40.08	-4.08	5
		e"	14.3000	Conductivity (σ):	1.39	1.37	1.64	5
	Head 1710	e'	38.6000	Relative Permittivity (ϵ_r):	38.60	40.15	-3.85	5
		e"	14.1700	Conductivity (σ):	1.35	1.35	0.07	5
	Head 1755	e'	38.4400	Relative Permittivity (ϵ_r):	38.44	40.08	-4.08	5
		e"	14.2900	Conductivity (σ):	1.39	1.37	1.65	5
1/4/2016	Body 1750	e'	51.0500	Relative Permittivity (ϵ_r):	51.05	53.44	-4.47	5
		e"	15.6200	Conductivity (σ):	1.52	1.49	2.27	5
	Body 1710	e'	51.0900	Relative Permittivity (ϵ_r):	51.09	53.54	-4.58	5
		e"	15.5300	Conductivity (σ):	1.48	1.46	1.03	5
	Body 1755	e'	51.0400	Relative Permittivity (ϵ_r):	51.04	53.43	-4.47	5
		e"	15.6000	Conductivity (σ):	1.52	1.49	2.22	5
1/7/2016	Head 1750	e'	39.6600	Relative Permittivity (ϵ_r):	39.66	40.08	-1.06	5
		e"	14.0200	Conductivity (σ):	1.36	1.37	-0.35	5
	Head 1710	e'	39.7900	Relative Permittivity (ϵ_r):	39.79	40.15	-0.89	5
		e"	13.9400	Conductivity (σ):	1.33	1.35	-1.56	5
	Head 1755	e'	39.6500	Relative Permittivity (ϵ_r):	39.65	40.08	-1.07	5
		e"	14.0400	Conductivity (σ):	1.37	1.37	-0.13	5
1/7/2016	Body 1750	e'	51.9800	Relative Permittivity (ϵ_r):	51.98	53.44	-2.73	5
		e"	15.1700	Conductivity (σ):	1.48	1.49	-0.67	5
	Body 1710	e'	52.0700	Relative Permittivity (ϵ_r):	52.07	53.54	-2.75	5
		e"	15.1600	Conductivity (σ):	1.44	1.46	-1.38	5
	Body 1755	e'	51.9700	Relative Permittivity (ϵ_r):	51.97	53.43	-2.73	5
		e"	15.2000	Conductivity (σ):	1.48	1.49	-0.40	5

SAR Lab F

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
12/7/2015	Head 2450	e'	38.7300	Relative Permittivity (ε _r):	38.73	39.20	-1.20	5
		e"	13.5400	Conductivity (σ):	1.84	1.80	2.47	5
	Head 2410	e'	38.9100	Relative Permittivity (ε _r):	38.91	39.28	-0.94	5
		e"	13.4000	Conductivity (σ):	1.80	1.76	2.00	5
	Head 2475	e'	38.6400	Relative Permittivity (ε _r):	38.64	39.17	-1.35	5
		e"	13.5800	Conductivity (σ):	1.87	1.83	2.29	5
12/7/2015	Body 2450	e'	53.9300	Relative Permittivity (ε _r):	53.93	52.70	2.33	5
		e"	14.7400	Conductivity (σ):	2.01	1.95	2.97	5
	Body 2410	e'	54.0800	Relative Permittivity (ε _r):	54.08	52.76	2.50	5
		e"	14.5700	Conductivity (σ):	1.95	1.91	2.36	5
	Body 2475	e'	53.8500	Relative Permittivity (ε _r):	53.85	52.67	2.24	5
		e"	14.7700	Conductivity (σ):	2.03	1.99	2.39	5
12/11/2015	Head 2450	e'	39.3500	Relative Permittivity (ε _r):	39.35	39.20	0.38	5
		e"	13.7300	Conductivity (σ):	1.87	1.80	3.91	5
	Head 2410	e'	39.5100	Relative Permittivity (ε _r):	39.51	39.28	0.59	5
		e"	13.6600	Conductivity (σ):	1.83	1.76	3.98	5
	Head 2475	e'	39.2600	Relative Permittivity (ε _r):	39.26	39.17	0.23	5
		e"	13.7800	Conductivity (σ):	1.90	1.83	3.80	5
12/11/2015	Body 2450	e'	52.9100	Relative Permittivity (ε _r):	52.91	52.70	0.40	5
		e"	14.7400	Conductivity (σ):	2.01	1.95	2.97	5
	Body 2410	e'	53.0500	Relative Permittivity (ε _r):	53.05	52.76	0.55	5
		e"	14.6500	Conductivity (σ):	1.96	1.91	2.92	5
	Body 2475	e'	52.8400	Relative Permittivity (ε _r):	52.84	52.67	0.33	5
		e"	14.7900	Conductivity (σ):	2.04	1.99	2.53	5
12/14/2015	Head 2450	e'	39.3500	Relative Permittivity (ε _r):	39.35	39.20	0.38	5
		e"	13.6600	Conductivity (σ):	1.86	1.80	3.38	5
	Head 2410	e'	39.5000	Relative Permittivity (ε _r):	39.50	39.28	0.56	5
		e"	13.5800	Conductivity (σ):	1.82	1.76	3.37	5
	Head 2475	e'	39.2800	Relative Permittivity (ε _r):	39.28	39.17	0.28	5
		e"	13.7100	Conductivity (σ):	1.89	1.83	3.27	5
12/14/2015	Body 2450	e'	52.1700	Relative Permittivity (ε _r):	52.17	52.70	-1.01	5
		e"	14.6800	Conductivity (σ):	2.00	1.95	2.55	5
	Body 2410	e'	52.3300	Relative Permittivity (ε _r):	52.33	52.76	-0.81	5
		e"	14.6000	Conductivity (σ):	1.96	1.91	2.57	5
	Body 2475	e'	52.1300	Relative Permittivity (ε _r):	52.13	52.67	-1.02	5
		e"	14.7400	Conductivity (σ):	2.03	1.99	2.18	5
12/14/2015	Head 2600	e'	37.6800	Relative Permittivity (ε _r):	37.68	39.01	-3.41	5
		e"	14.0800	Conductivity (σ):	2.04	1.96	3.74	5
	Head 2500	e'	38.0900	Relative Permittivity (ε _r):	38.09	39.14	-2.68	5
		e"	13.8900	Conductivity (σ):	1.93	1.85	4.14	5
	Head 2700	e'	37.3400	Relative Permittivity (ε _r):	37.34	38.88	-3.97	5
		e"	14.2800	Conductivity (σ):	2.14	2.07	3.55	5
12/14/2015	Body 2600	e'	50.6400	Relative Permittivity (ε _r):	50.64	52.51	-3.56	5
		e"	15.1900	Conductivity (σ):	2.20	2.16	1.63	5
	Body 2500	e'	50.9500	Relative Permittivity (ε _r):	50.95	52.64	-3.20	5
		e"	14.9700	Conductivity (σ):	2.08	2.02	3.00	5
	Body 2700	e'	50.3500	Relative Permittivity (ε _r):	50.35	52.38	-3.88	5
		e"	15.3700	Conductivity (σ):	2.31	2.30	0.27	5

SAR Lab F (continued)

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
12/17/2015	Head 2600	e'	38.6700	Relative Permittivity (ϵ_r):	38.67	39.01	-0.87	5
		e"	13.7400	Conductivity (σ):	1.99	1.96	1.23	5
	Head 2500	e'	39.0100	Relative Permittivity (ϵ_r):	39.01	39.14	-0.32	5
		e"	13.5300	Conductivity (σ):	1.88	1.85	1.44	5
	Head 2700	e'	38.3300	Relative Permittivity (ϵ_r):	38.33	38.88	-1.43	5
		e"	13.9100	Conductivity (σ):	2.09	2.07	0.87	5
12/17/2015	Body 2600	e'	51.3900	Relative Permittivity (ϵ_r):	51.39	52.51	-2.13	5
		e"	14.9800	Conductivity (σ):	2.17	2.16	0.22	5
	Body 2500	e'	51.7000	Relative Permittivity (ϵ_r):	51.70	52.64	-1.78	5
		e"	14.7500	Conductivity (σ):	2.05	2.02	1.49	5
	Body 2700	e'	51.1000	Relative Permittivity (ϵ_r):	51.10	52.38	-2.45	5
		e"	15.1600	Conductivity (σ):	2.28	2.30	-1.10	5
12/21/2015	Head 2600	e'	38.1700	Relative Permittivity (ϵ_r):	38.17	39.01	-2.16	5
		e"	14.1900	Conductivity (σ):	2.05	1.96	4.55	5
	Head 2500	e'	38.5600	Relative Permittivity (ϵ_r):	38.56	39.14	-1.47	5
		e"	13.9600	Conductivity (σ):	1.94	1.85	4.67	5
	Head 2700	e'	37.7900	Relative Permittivity (ϵ_r):	37.79	38.88	-2.82	5
		e"	14.4100	Conductivity (σ):	2.16	2.07	4.50	5
12/21/2015	Body 2600	e'	51.0900	Relative Permittivity (ϵ_r):	51.09	52.51	-2.71	5
		e"	14.9400	Conductivity (σ):	2.16	2.16	-0.04	5
	Body 2500	e'	51.3500	Relative Permittivity (ϵ_r):	51.35	52.64	-2.44	5
		e"	14.6300	Conductivity (σ):	2.03	2.02	0.66	5
	Body 2700	e'	50.8500	Relative Permittivity (ϵ_r):	50.85	52.38	-2.93	5
		e"	15.1800	Conductivity (σ):	2.28	2.30	-0.97	5
12/28/2015	Head 2600	e'	37.5100	Relative Permittivity (ϵ_r):	37.51	39.01	-3.85	5
		e"	14.2100	Conductivity (σ):	2.05	1.96	4.70	5
	Head 2500	e'	37.8400	Relative Permittivity (ϵ_r):	37.84	39.14	-3.31	5
		e"	13.9900	Conductivity (σ):	1.94	1.85	4.89	5
	Head 2700	e'	37.1100	Relative Permittivity (ϵ_r):	37.11	38.88	-4.56	5
		e"	14.4500	Conductivity (σ):	2.17	2.07	4.79	5
12/28/2015	Body 2600	e'	51.4400	Relative Permittivity (ϵ_r):	51.44	52.51	-2.04	5
		e"	15.4600	Conductivity (σ):	2.24	2.16	3.43	5
	Body 2500	e'	51.7400	Relative Permittivity (ϵ_r):	51.74	52.64	-1.70	5
		e"	15.1600	Conductivity (σ):	2.11	2.02	4.31	5
	Body 2700	e'	51.1600	Relative Permittivity (ϵ_r):	51.16	52.38	-2.34	5
		e"	15.7500	Conductivity (σ):	2.36	2.30	2.74	5
1/4/2016	Head 2600	e'	38.3600	Relative Permittivity (ϵ_r):	38.36	39.01	-1.67	5
		e"	14.1900	Conductivity (σ):	2.05	1.96	4.55	5
	Head 2500	e'	38.7300	Relative Permittivity (ϵ_r):	38.73	39.14	-1.04	5
		e"	13.9500	Conductivity (σ):	1.94	1.85	4.59	5
	Head 2700	e'	37.9900	Relative Permittivity (ϵ_r):	37.99	38.88	-2.30	5
		e"	14.4100	Conductivity (σ):	2.16	2.07	4.50	5
1/4/2016	Body 2600	e'	51.6900	Relative Permittivity (ϵ_r):	51.69	52.51	-1.56	5
		e"	15.3200	Conductivity (σ):	2.21	2.16	2.50	5
	Body 2500	e'	51.9800	Relative Permittivity (ϵ_r):	51.98	52.64	-1.25	5
		e"	15.0600	Conductivity (σ):	2.09	2.02	3.62	5
	Body 2700	e'	51.3800	Relative Permittivity (ϵ_r):	51.38	52.38	-1.92	5
		e"	15.5500	Conductivity (σ):	2.33	2.30	1.44	5

SAR Lab F (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/7/2016	Head 2600	e'	38.2300	Relative Permittivity (ϵ_r):	38.23	39.01	-2.00	5
		e"	13.9400	Conductivity (σ):	2.02	1.96	2.71	5
	Head 2500	e'	38.6200	Relative Permittivity (ϵ_r):	38.62	39.14	-1.32	5
		e"	13.6800	Conductivity (σ):	1.90	1.85	2.57	5
	Head 2700	e'	37.8600	Relative Permittivity (ϵ_r):	37.86	38.88	-2.64	5
		e"	14.1200	Conductivity (σ):	2.12	2.07	2.39	5
1/7/2016	Body 2600	e'	52.1900	Relative Permittivity (ϵ_r):	52.19	52.51	-0.61	5
		e"	15.0500	Conductivity (σ):	2.18	2.16	0.69	5
	Body 2500	e'	52.4900	Relative Permittivity (ϵ_r):	52.49	52.64	-0.28	5
		e"	14.7700	Conductivity (σ):	2.05	2.02	1.63	5
	Body 2700	e'	51.8700	Relative Permittivity (ϵ_r):	51.87	52.38	-0.98	5
		e"	15.2500	Conductivity (σ):	2.29	2.30	-0.52	5
1/11/2016	Head 2600	e'	38.8000	Relative Permittivity (ϵ_r):	38.80	39.01	-0.54	5
		e"	13.8500	Conductivity (σ):	2.00	1.96	2.04	5
	Head 2500	e'	39.1800	Relative Permittivity (ϵ_r):	39.18	39.14	0.11	5
		e"	13.6500	Conductivity (σ):	1.90	1.85	2.34	5
	Head 2700	e'	38.4500	Relative Permittivity (ϵ_r):	38.45	38.88	-1.12	5
		e"	14.0200	Conductivity (σ):	2.10	2.07	1.67	5
1/11/2016	Body 2600	e'	51.8300	Relative Permittivity (ϵ_r):	51.83	52.51	-1.30	5
		e"	14.9400	Conductivity (σ):	2.16	2.16	-0.04	5
	Body 2500	e'	52.1500	Relative Permittivity (ϵ_r):	52.15	52.64	-0.93	5
		e"	14.7400	Conductivity (σ):	2.05	2.02	1.42	5
	Body 2700	e'	51.5500	Relative Permittivity (ϵ_r):	51.55	52.38	-1.59	5
		e"	15.1200	Conductivity (σ):	2.27	2.30	-1.36	5
1/12/2016	Head 2450	e'	38.0900	Relative Permittivity (ϵ_r):	38.09	39.20	-2.83	5
		e"	13.1400	Conductivity (σ):	1.79	1.80	-0.55	5
	Head 2410	e'	38.2400	Relative Permittivity (ϵ_r):	38.24	39.28	-2.65	5
		e"	13.0800	Conductivity (σ):	1.75	1.76	-0.44	5
	Head 2475	e'	37.9700	Relative Permittivity (ϵ_r):	37.97	39.17	-3.06	5
		e"	13.1900	Conductivity (σ):	1.82	1.83	-0.65	5
1/12/2016	Body 2450	e'	51.8600	Relative Permittivity (ϵ_r):	51.86	52.70	-1.59	5
		e"	14.4300	Conductivity (σ):	1.97	1.95	0.81	5
	Body 2410	e'	51.9600	Relative Permittivity (ϵ_r):	51.96	52.76	-1.52	5
		e"	14.3500	Conductivity (σ):	1.92	1.91	0.81	5
	Body 2475	e'	51.7700	Relative Permittivity (ϵ_r):	51.77	52.67	-1.71	5
		e"	14.4900	Conductivity (σ):	1.99	1.99	0.45	5
1/28/2016	Body 835	e'	54.2000	Relative Permittivity (ϵ_r):	54.20	55.20	-1.81	5
		e"	21.7800	Conductivity (σ):	1.01	0.97	4.25	5
	Body 820	e'	54.3500	Relative Permittivity (ϵ_r):	54.35	55.28	-1.68	5
		e"	21.8900	Conductivity (σ):	1.00	0.97	3.06	5
	Body 850	e'	54.0300	Relative Permittivity (ϵ_r):	54.03	55.16	-2.04	5
		e"	21.6800	Conductivity (σ):	1.02	0.99	3.80	5

SAR Lab G

Date	Freq. (MHz)			Liquid Parameters	Measured	Target	Delta (%)	Limit ±(%)
12/7/2015	Head 5180	e'	36.6600	Relative Permittivity (ϵ_r):	36.66	36.01	1.80	5
		e"	15.6500	Conductivity (σ):	4.51	4.63	-2.65	5
	Head 5200	e'	36.6500	Relative Permittivity (ϵ_r):	36.65	35.99	1.83	5
		e"	15.6300	Conductivity (σ):	4.52	4.65	-2.83	5
	Head 5600	e'	36.2200	Relative Permittivity (ϵ_r):	36.22	35.53	1.93	5
		e"	15.7600	Conductivity (σ):	4.91	5.06	-3.02	5
	Head 5800	e'	35.9500	Relative Permittivity (ϵ_r):	35.95	35.30	1.84	5
		e"	15.9100	Conductivity (σ):	5.13	5.27	-2.64	5
	Head 5825	e'	35.9400	Relative Permittivity (ϵ_r):	35.94	35.30	1.81	5
		e"	15.8700	Conductivity (σ):	5.14	5.27	-2.46	5
12/7/2015	Body 5180	e'	47.7500	Relative Permittivity (ϵ_r):	47.75	49.05	-2.64	5
		e"	18.2700	Conductivity (σ):	5.26	5.27	-0.17	5
	Body 5200	e'	47.7900	Relative Permittivity (ϵ_r):	47.79	49.02	-2.51	5
		e"	18.2400	Conductivity (σ):	5.27	5.29	-0.39	5
	Body 5600	e'	47.3500	Relative Permittivity (ϵ_r):	47.35	48.48	-2.33	5
		e"	18.5200	Conductivity (σ):	5.77	5.76	0.10	5
	Body 5800	e'	47.1500	Relative Permittivity (ϵ_r):	47.15	48.20	-2.18	5
		e"	18.7600	Conductivity (σ):	6.05	6.00	0.83	5
	Body 5825	e'	47.1400	Relative Permittivity (ϵ_r):	47.14	48.20	-2.20	5
		e"	18.7300	Conductivity (σ):	6.07	6.00	1.11	5
12/10/2015	Head 5180	e'	34.7100	Relative Permittivity (ϵ_r):	34.71	36.01	-3.62	5
		e"	15.6100	Conductivity (σ):	4.50	4.63	-2.90	5
	Head 5200	e'	34.6500	Relative Permittivity (ϵ_r):	34.65	35.99	-3.72	5
		e"	15.6000	Conductivity (σ):	4.51	4.65	-3.02	5
	Head 5600	e'	34.1100	Relative Permittivity (ϵ_r):	34.11	35.53	-4.01	5
		e"	15.8100	Conductivity (σ):	4.92	5.06	-2.71	5
	Head 5800	e'	33.8400	Relative Permittivity (ϵ_r):	33.84	35.30	-4.14	5
		e"	15.9200	Conductivity (σ):	5.13	5.27	-2.58	5
	Head 5825	e'	33.8000	Relative Permittivity (ϵ_r):	33.80	35.30	-4.25	5
		e"	15.9200	Conductivity (σ):	5.16	5.27	-2.16	5
12/10/2015	Body 5180	e'	46.9400	Relative Permittivity (ϵ_r):	46.94	49.05	-4.30	5
		e"	18.8800	Conductivity (σ):	5.44	5.27	3.16	5
	Body 5200	e'	46.9200	Relative Permittivity (ϵ_r):	46.92	49.02	-4.28	5
		e"	18.8500	Conductivity (σ):	5.45	5.29	2.94	5
	Body 5600	e'	46.2400	Relative Permittivity (ϵ_r):	46.24	48.48	-4.62	5
		e"	19.1800	Conductivity (σ):	5.97	5.76	3.67	5
	Body 5800	e'	45.9500	Relative Permittivity (ϵ_r):	45.95	48.20	-4.67	5
		e"	19.3800	Conductivity (σ):	6.25	6.00	4.17	5
	Body 5825	e'	45.9400	Relative Permittivity (ϵ_r):	45.94	48.20	-4.69	5
		e"	19.4200	Conductivity (σ):	6.29	6.00	4.83	5
12/14/2015	Head 5180	e'	37.2300	Relative Permittivity (ϵ_r):	37.23	36.01	3.38	5
		e"	15.6800	Conductivity (σ):	4.52	4.63	-2.47	5
	Head 5200	e'	37.1900	Relative Permittivity (ϵ_r):	37.19	35.99	3.33	5
		e"	15.6600	Conductivity (σ):	4.53	4.65	-2.65	5
	Head 5600	e'	36.5900	Relative Permittivity (ϵ_r):	36.59	35.53	2.97	5
		e"	15.7400	Conductivity (σ):	4.90	5.06	-3.15	5
	Head 5800	e'	36.2900	Relative Permittivity (ϵ_r):	36.29	35.30	2.80	5
		e"	15.8800	Conductivity (σ):	5.12	5.27	-2.82	5
	Head 5825	e'	36.2800	Relative Permittivity (ϵ_r):	36.28	35.30	2.78	5
		e"	15.8700	Conductivity (σ):	5.14	5.27	-2.46	5

SAR Lab G (continued)

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
12/15/2015	Head 1900	e'	41.7100	Relative Permittivity (ϵ_r):	41.71	40.00	4.28	5
		e"	13.4800	Conductivity (σ):	1.42	1.40	1.72	5
	Head 1850	e'	41.8800	Relative Permittivity (ϵ_r):	41.88	40.00	4.70	5
		e"	13.3900	Conductivity (σ):	1.38	1.40	-1.62	5
	Head 1910	e'	41.6900	Relative Permittivity (ϵ_r):	41.69	40.00	4.22	5
		e"	13.4700	Conductivity (σ):	1.43	1.40	2.18	5
12/15/2015	Body 1900	e'	51.5900	Relative Permittivity (ϵ_r):	51.59	53.30	-3.21	5
		e"	15.0200	Conductivity (σ):	1.59	1.52	4.39	5
	Body 1850	e'	51.7100	Relative Permittivity (ϵ_r):	51.71	53.30	-2.98	5
		e"	15.0000	Conductivity (σ):	1.54	1.52	1.51	5
	Body 1910	e'	51.5600	Relative Permittivity (ϵ_r):	51.56	53.30	-3.26	5
		e"	15.0100	Conductivity (σ):	1.59	1.52	4.87	5
12/17/2015	Head 1900	e'	38.4900	Relative Permittivity (ϵ_r):	38.49	40.00	-3.78	5
		e"	13.5400	Conductivity (σ):	1.43	1.40	2.17	5
	Head 1850	e'	38.8400	Relative Permittivity (ϵ_r):	38.84	40.00	-2.90	5
		e"	13.4900	Conductivity (σ):	1.39	1.40	-0.88	5
	Head 1910	e'	38.4600	Relative Permittivity (ϵ_r):	38.46	40.00	-3.85	5
		e"	13.5400	Conductivity (σ):	1.44	1.40	2.71	5
12/17/2015	Body 1900	e'	51.1400	Relative Permittivity (ϵ_r):	51.14	53.30	-4.05	5
		e"	15.0500	Conductivity (σ):	1.59	1.52	4.60	5
	Body 1850	e'	51.2900	Relative Permittivity (ϵ_r):	51.29	53.30	-3.77	5
		e"	15.0100	Conductivity (σ):	1.54	1.52	1.58	5
	Body 1910	e'	51.1400	Relative Permittivity (ϵ_r):	51.14	53.30	-4.05	5
		e"	15.0200	Conductivity (σ):	1.60	1.52	4.94	5
12/21/2015	Head 1900	e'	39.1700	Relative Permittivity (ϵ_r):	39.17	40.00	-2.08	5
		e"	13.5000	Conductivity (σ):	1.43	1.40	1.87	5
	Head 1850	e'	39.3400	Relative Permittivity (ϵ_r):	39.34	40.00	-1.65	5
		e"	13.4300	Conductivity (σ):	1.38	1.40	-1.32	5
	Head 1910	e'	39.1500	Relative Permittivity (ϵ_r):	39.15	40.00	-2.13	5
		e"	13.5000	Conductivity (σ):	1.43	1.40	2.41	5
12/21/2015	Body 1900	e'	50.8900	Relative Permittivity (ϵ_r):	50.89	53.30	-4.52	5
		e"	14.6300	Conductivity (σ):	1.55	1.52	1.68	5
	Body 1850	e'	51.0200	Relative Permittivity (ϵ_r):	51.02	53.30	-4.28	5
		e"	14.6400	Conductivity (σ):	1.51	1.52	-0.92	5
	Body 1910	e'	50.8700	Relative Permittivity (ϵ_r):	50.87	53.30	-4.56	5
		e"	14.6300	Conductivity (σ):	1.55	1.52	2.22	5
12/28/2015	Head 1900	e'	40.6100	Relative Permittivity (ϵ_r):	40.61	40.00	1.53	5
		e"	13.5200	Conductivity (σ):	1.43	1.40	2.02	5
	Head 1850	e'	40.7000	Relative Permittivity (ϵ_r):	40.70	40.00	1.75	5
		e"	13.5200	Conductivity (σ):	1.39	1.40	-0.66	5
	Head 1910	e'	40.5700	Relative Permittivity (ϵ_r):	40.57	40.00	1.43	5
		e"	13.5100	Conductivity (σ):	1.43	1.40	2.48	5
12/28/2015	Body 1900	e'	51.3700	Relative Permittivity (ϵ_r):	51.37	53.30	-3.62	5
		e"	14.8900	Conductivity (σ):	1.57	1.52	3.49	5
	Body 1850	e'	51.4100	Relative Permittivity (ϵ_r):	51.41	53.30	-3.55	5
		e"	14.9500	Conductivity (σ):	1.54	1.52	1.17	5
	Body 1910	e'	51.3500	Relative Permittivity (ϵ_r):	51.35	53.30	-3.66	5
		e"	14.9100	Conductivity (σ):	1.58	1.52	4.18	5

SAR Lab G (continued)

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
1/4/2016	Head 1900	e'	40.6700	Relative Permittivity (ϵ_r):	40.67	40.00	1.68	5
		e"	13.7200	Conductivity (σ):	1.45	1.40	3.53	5
	Head 1850	e'	40.7500	Relative Permittivity (ϵ_r):	40.75	40.00	1.88	5
		e"	13.6700	Conductivity (σ):	1.41	1.40	0.44	5
	Head 1910	e'	40.6500	Relative Permittivity (ϵ_r):	40.65	40.00	1.63	5
		e"	13.7200	Conductivity (σ):	1.46	1.40	4.08	5
1/4/2016	Body 1900	e'	51.5800	Relative Permittivity (ϵ_r):	51.58	53.30	-3.23	5
		e"	15.0000	Conductivity (σ):	1.58	1.52	4.26	5
	Body 1850	e'	51.6100	Relative Permittivity (ϵ_r):	51.61	53.30	-3.17	5
		e"	15.0100	Conductivity (σ):	1.54	1.52	1.58	5
	Body 1910	e'	51.5700	Relative Permittivity (ϵ_r):	51.57	53.30	-3.25	5
		e"	14.9900	Conductivity (σ):	1.59	1.52	4.73	5
1/7/2016	Head 1900	e'	38.4800	Relative Permittivity (ϵ_r):	38.48	40.00	-3.80	5
		e"	13.6200	Conductivity (σ):	1.44	1.40	2.78	5
	Head 1850	e'	38.6700	Relative Permittivity (ϵ_r):	38.67	40.00	-3.33	5
		e"	13.5500	Conductivity (σ):	1.39	1.40	-0.44	5
	Head 1910	e'	38.4400	Relative Permittivity (ϵ_r):	38.44	40.00	-3.90	5
		e"	13.6200	Conductivity (σ):	1.45	1.40	3.32	5
1/7/2016	Body 1900	e'	50.8300	Relative Permittivity (ϵ_r):	50.83	53.30	-4.63	5
		e"	14.6800	Conductivity (σ):	1.55	1.52	2.03	5
	Body 1850	e'	50.9500	Relative Permittivity (ϵ_r):	50.95	53.30	-4.41	5
		e"	14.6500	Conductivity (σ):	1.51	1.52	-0.86	5
	Body 1910	e'	50.8200	Relative Permittivity (ϵ_r):	50.82	53.30	-4.65	5
		e"	14.6600	Conductivity (σ):	1.56	1.52	2.43	5
1/11/2016	Body 1900	e'	50.8000	Relative Permittivity (ϵ_r):	50.80	53.30	-4.69	5
		e"	14.7800	Conductivity (σ):	1.56	1.52	2.73	5
	Body 1850	e'	50.8700	Relative Permittivity (ϵ_r):	50.87	53.30	-4.56	5
		e"	14.7400	Conductivity (σ):	1.52	1.52	-0.25	5
	Body 1910	e'	50.7800	Relative Permittivity (ϵ_r):	50.78	53.30	-4.73	5
		e"	14.7500	Conductivity (σ):	1.57	1.52	3.06	5
1/11/2016	Head 1900	e'	38.2600	Relative Permittivity (ϵ_r):	38.26	40.00	-4.35	5
		e"	13.1500	Conductivity (σ):	1.39	1.40	-0.77	5
	Head 1850	e'	38.4100	Relative Permittivity (ϵ_r):	38.41	40.00	-3.98	5
		e"	13.0700	Conductivity (σ):	1.34	1.40	-3.97	5
	Head 1910	e'	38.2400	Relative Permittivity (ϵ_r):	38.24	40.00	-4.40	5
		e"	13.1400	Conductivity (σ):	1.40	1.40	-0.32	5
1/13/2016	Body 5180	e'	49.1200	Relative Permittivity (ϵ_r):	49.12	49.05	0.15	5
		e"	18.2000	Conductivity (σ):	5.24	5.27	-0.56	5
	Body 5200	e'	49.1200	Relative Permittivity (ϵ_r):	49.12	49.02	0.20	5
		e"	18.2200	Conductivity (σ):	5.27	5.29	-0.50	5
	Body 5600	e'	48.6100	Relative Permittivity (ϵ_r):	48.61	48.48	0.27	5
		e"	18.2900	Conductivity (σ):	5.70	5.76	-1.14	5
	Body 5800	e'	48.4200	Relative Permittivity (ϵ_r):	48.42	48.20	0.46	5
		e"	18.4000	Conductivity (σ):	5.93	6.00	-1.10	5
	Body 5825	e'	48.3600	Relative Permittivity (ϵ_r):	48.36	48.20	0.33	5
		e"	18.4300	Conductivity (σ):	5.97	6.00	-0.51	5

SAR Lab H

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
12/7/2015	Head 5180	e'	37.6500	Relative Permittivity (ϵ_r):	37.65	36.01	4.55	5
		e"	15.7200	Conductivity (σ):	4.53	4.63	-2.22	5
	Head 5200	e'	37.6600	Relative Permittivity (ϵ_r):	37.66	35.99	4.64	5
		e"	15.7000	Conductivity (σ):	4.54	4.65	-2.40	5
	Head 5600	e'	37.1800	Relative Permittivity (ϵ_r):	37.18	35.53	4.63	5
		e"	15.7500	Conductivity (σ):	4.90	5.06	-3.08	5
	Head 5800	e'	36.8400	Relative Permittivity (ϵ_r):	36.84	35.30	4.36	5
		e"	15.8600	Conductivity (σ):	5.11	5.27	-2.94	5
	Head 5825	e'	36.8100	Relative Permittivity (ϵ_r):	36.81	35.30	4.28	5
		e"	15.8600	Conductivity (σ):	5.14	5.27	-2.53	5
12/7/2015	Body 5180	e'	48.4200	Relative Permittivity (ϵ_r):	48.42	49.05	-1.28	5
		e"	18.3700	Conductivity (σ):	5.29	5.27	0.37	5
	Body 5200	e'	48.4600	Relative Permittivity (ϵ_r):	48.46	49.02	-1.14	5
		e"	18.3300	Conductivity (σ):	5.30	5.29	0.10	5
	Body 5600	e'	47.9400	Relative Permittivity (ϵ_r):	47.94	48.48	-1.11	5
		e"	18.6400	Conductivity (σ):	5.80	5.76	0.75	5
	Body 5800	e'	47.6400	Relative Permittivity (ϵ_r):	47.64	48.20	-1.16	5
		e"	18.8900	Conductivity (σ):	6.09	6.00	1.53	5
	Body 5825	e'	47.6300	Relative Permittivity (ϵ_r):	47.63	48.20	-1.18	5
		e"	18.9000	Conductivity (σ):	6.12	6.00	2.02	5
12/10/2015	Head 5180	e'	36.6700	Relative Permittivity (ϵ_r):	36.67	36.01	1.82	5
		e"	15.5700	Conductivity (σ):	4.48	4.63	-3.15	5
	Head 5200	e'	36.6400	Relative Permittivity (ϵ_r):	36.64	35.99	1.81	5
		e"	15.5500	Conductivity (σ):	4.50	4.65	-3.33	5
	Head 5600	e'	36.0700	Relative Permittivity (ϵ_r):	36.07	35.53	1.51	5
		e"	15.7400	Conductivity (σ):	4.90	5.06	-3.15	5
	Head 5800	e'	35.8400	Relative Permittivity (ϵ_r):	35.84	35.30	1.53	5
		e"	15.8600	Conductivity (σ):	5.11	5.27	-2.94	5
	Head 5825	e'	35.7700	Relative Permittivity (ϵ_r):	35.77	35.30	1.33	5
		e"	15.8800	Conductivity (σ):	5.14	5.27	-2.40	5
12/10/2015	Body 5180	e'	48.2400	Relative Permittivity (ϵ_r):	48.24	49.05	-1.64	5
		e"	18.1000	Conductivity (σ):	5.21	5.27	-1.10	5
	Body 5200	e'	48.1800	Relative Permittivity (ϵ_r):	48.18	49.02	-1.71	5
		e"	18.0800	Conductivity (σ):	5.23	5.29	-1.27	5
	Body 5600	e'	47.5200	Relative Permittivity (ϵ_r):	47.52	48.48	-1.98	5
		e"	18.5200	Conductivity (σ):	5.77	5.76	0.10	5
	Body 5800	e'	47.2500	Relative Permittivity (ϵ_r):	47.25	48.20	-1.97	5
		e"	18.7200	Conductivity (σ):	6.04	6.00	0.62	5
	Body 5825	e'	47.1400	Relative Permittivity (ϵ_r):	47.14	48.20	-2.20	5
		e"	18.7300	Conductivity (σ):	6.07	6.00	1.11	5
12/14/2015	Head 5180	e'	36.6000	Relative Permittivity (ϵ_r):	36.60	36.01	1.63	5
		e"	15.8900	Conductivity (σ):	4.58	4.63	-1.16	5
	Head 5200	e'	36.5600	Relative Permittivity (ϵ_r):	36.56	35.99	1.58	5
		e"	15.8800	Conductivity (σ):	4.59	4.65	-1.28	5
	Head 5600	e'	35.9400	Relative Permittivity (ϵ_r):	35.94	35.53	1.14	5
		e"	16.0000	Conductivity (σ):	4.98	5.06	-1.55	5
	Head 5800	e'	35.6500	Relative Permittivity (ϵ_r):	35.65	35.30	0.99	5
		e"	16.1200	Conductivity (σ):	5.20	5.27	-1.35	5
	Head 5825	e'	35.6300	Relative Permittivity (ϵ_r):	35.63	35.30	0.93	5
		e"	16.1100	Conductivity (σ):	5.22	5.27	-0.99	5

SAR Lab H (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit $\pm$ (%)
12/15/2015	Body 835	e'	53.7900	Relative Permittivity (ϵ_r):	53.79	55.20	-2.55	5
		e"	21.8200	Conductivity (σ):	1.01	0.97	4.44	5
	Body 820	e'	53.9900	Relative Permittivity (ϵ_r):	53.99	55.28	-2.33	5
		e"	21.9100	Conductivity (σ):	1.00	0.97	3.15	5
	Body 850	e'	53.6300	Relative Permittivity (ϵ_r):	53.63	55.16	-2.77	5
		e"	21.7900	Conductivity (σ):	1.03	0.99	4.33	5
12/15/2015	Head 835	e'	42.6800	Relative Permittivity (ϵ_r):	42.68	41.50	2.84	5
		e"	20.3000	Conductivity (σ):	0.94	0.90	4.72	5
	Head 820	e'	42.8700	Relative Permittivity (ϵ_r):	42.87	41.60	3.05	5
		e"	20.3200	Conductivity (σ):	0.93	0.90	3.12	5
	Head 850	e'	42.4834	Relative Permittivity (ϵ_r):	42.48	41.50	2.37	5
		e"	20.2200	Conductivity (σ):	0.96	0.92	4.44	5
12/17/2015	Head 835	e'	41.3000	Relative Permittivity (ϵ_r):	41.30	41.50	-0.48	5
		e"	19.2600	Conductivity (σ):	0.89	0.90	-0.64	5
	Head 820	e'	41.4900	Relative Permittivity (ϵ_r):	41.49	41.60	-0.27	5
		e"	19.3100	Conductivity (σ):	0.88	0.90	-2.01	5
	Head 850	e'	41.1400	Relative Permittivity (ϵ_r):	41.14	41.50	-0.87	5
		e"	19.2000	Conductivity (σ):	0.91	0.92	-0.83	5
12/17/2015	Body 835	e'	56.2200	Relative Permittivity (ϵ_r):	56.22	55.20	1.85	5
		e"	21.6400	Conductivity (σ):	1.00	0.97	3.58	5
	Body 820	e'	56.3100	Relative Permittivity (ϵ_r):	56.31	55.28	1.87	5
		e"	21.7500	Conductivity (σ):	0.99	0.97	2.40	5
	Body 850	e'	56.0600	Relative Permittivity (ϵ_r):	56.06	55.16	1.64	5
		e"	21.5500	Conductivity (σ):	1.02	0.99	3.18	5
12/21/2015	Head 835	e'	42.5100	Relative Permittivity (ϵ_r):	42.51	41.50	2.43	5
		e"	19.6100	Conductivity (σ):	0.91	0.90	1.16	5
	Head 820	e'	42.6900	Relative Permittivity (ϵ_r):	42.69	41.60	2.61	5
		e"	19.6100	Conductivity (σ):	0.89	0.90	-0.48	5
	Head 850	e'	42.3300	Relative Permittivity (ϵ_r):	42.33	41.50	2.00	5
		e"	19.5700	Conductivity (σ):	0.92	0.92	1.09	5
12/21/2015	Body 835	e'	54.2200	Relative Permittivity (ϵ_r):	54.22	55.20	-1.78	5
		e"	21.2400	Conductivity (σ):	0.99	0.97	1.66	5
	Body 820	e'	54.4000	Relative Permittivity (ϵ_r):	54.40	55.28	-1.59	5
		e"	21.2500	Conductivity (σ):	0.97	0.97	0.04	5
	Body 850	e'	54.0800	Relative Permittivity (ϵ_r):	54.08	55.16	-1.95	5
		e"	21.1800	Conductivity (σ):	1.00	0.99	1.41	5
12/28/2015	Head 835	e'	40.4900	Relative Permittivity (ϵ_r):	40.49	41.50	-2.43	5
		e"	19.2600	Conductivity (σ):	0.89	0.90	-0.64	5
	Head 820	e'	40.6900	Relative Permittivity (ϵ_r):	40.69	41.60	-2.19	5
		e"	19.3000	Conductivity (σ):	0.88	0.90	-2.06	5
	Head 850	e'	40.3000	Relative Permittivity (ϵ_r):	40.30	41.50	-2.89	5
		e"	19.2300	Conductivity (σ):	0.91	0.92	-0.67	5
12/28/2015	Body 835	e'	54.7700	Relative Permittivity (ϵ_r):	54.77	55.20	-0.78	5
		e"	21.6800	Conductivity (σ):	1.01	0.97	3.77	5
	Body 820	e'	54.9200	Relative Permittivity (ϵ_r):	54.92	55.28	-0.65	5
		e"	21.7200	Conductivity (σ):	0.99	0.97	2.26	5
	Body 850	e'	54.6100	Relative Permittivity (ϵ_r):	54.61	55.16	-0.99	5
		e"	21.6000	Conductivity (σ):	1.02	0.99	3.42	5

SAR Lab H (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/4/2016	Head 835	e'	40.3500	Relative Permittivity (ϵ_r):	40.35	41.50	-2.77	5
		e"	19.2900	Conductivity (σ):	0.90	0.90	-0.49	5
	Head 820	e'	40.5200	Relative Permittivity (ϵ_r):	40.52	41.60	-2.60	5
		e"	19.3400	Conductivity (σ):	0.88	0.90	-1.85	5
	Head 850	e'	40.1800	Relative Permittivity (ϵ_r):	40.18	41.50	-3.18	5
		e"	19.3100	Conductivity (σ):	0.91	0.92	-0.26	5
1/4/2016	Body 835	e'	55.1700	Relative Permittivity (ϵ_r):	55.17	55.20	-0.05	5
		e"	21.7200	Conductivity (σ):	1.01	0.97	3.96	5
	Body 820	e'	55.3200	Relative Permittivity (ϵ_r):	55.32	55.28	0.08	5
		e"	21.7800	Conductivity (σ):	0.99	0.97	2.54	5
	Body 850	e'	55.0400	Relative Permittivity (ϵ_r):	55.04	55.16	-0.21	5
		e"	21.6800	Conductivity (σ):	1.02	0.99	3.80	5
1/7/2016	Head 835	e'	41.8900	Relative Permittivity (ϵ_r):	41.89	41.50	0.94	5
		e"	19.5700	Conductivity (σ):	0.91	0.90	0.96	5
	Head 820	e'	42.0900	Relative Permittivity (ϵ_r):	42.09	41.60	1.17	5
		e"	19.6000	Conductivity (σ):	0.89	0.90	-0.54	5
	Head 850	e'	41.6900	Relative Permittivity (ϵ_r):	41.69	41.50	0.46	5
		e"	19.5100	Conductivity (σ):	0.92	0.92	0.78	5
1/7/2016	Body 835	e'	54.5800	Relative Permittivity (ϵ_r):	54.58	55.20	-1.12	5
		e"	21.4200	Conductivity (σ):	0.99	0.97	2.53	5
	Body 820	e'	54.7400	Relative Permittivity (ϵ_r):	54.74	55.28	-0.97	5
		e"	21.4800	Conductivity (σ):	0.98	0.97	1.13	5
	Body 850	e'	54.4000	Relative Permittivity (ϵ_r):	54.40	55.16	-1.37	5
		e"	21.3500	Conductivity (σ):	1.01	0.99	2.22	5
1/11/2016	Head 835	e'	40.5300	Relative Permittivity (ϵ_r):	40.53	41.50	-2.34	5
		e"	19.3900	Conductivity (σ):	0.90	0.90	0.03	5
	Head 820	e'	40.7400	Relative Permittivity (ϵ_r):	40.74	41.60	-2.07	5
		e"	19.4400	Conductivity (σ):	0.89	0.90	-1.35	5
	Head 850	e'	40.3400	Relative Permittivity (ϵ_r):	40.34	41.50	-2.80	5
		e"	19.3500	Conductivity (σ):	0.91	0.92	-0.05	5
1/11/2016	Body 835	e'	53.5800	Relative Permittivity (ϵ_r):	53.58	55.20	-2.93	5
		e"	21.6700	Conductivity (σ):	1.01	0.97	3.72	5
	Body 820	e'	53.7200	Relative Permittivity (ϵ_r):	53.72	55.28	-2.82	5
		e"	21.7300	Conductivity (σ):	0.99	0.97	2.30	5
	Body 850	e'	53.4000	Relative Permittivity (ϵ_r):	53.40	55.16	-3.19	5
		e"	21.6400	Conductivity (σ):	1.02	0.99	3.61	5
1/28/2016	Head 835	e'	43.2100	Relative Permittivity (ϵ_r):	43.21	41.50	4.12	5
		e"	19.8300	Conductivity (σ):	0.92	0.90	2.30	5
	Head 820	e'	43.4100	Relative Permittivity (ϵ_r):	43.41	41.60	4.34	5
		e"	19.9000	Conductivity (σ):	0.91	0.90	0.99	5
	Head 850	e'	43.0400	Relative Permittivity (ϵ_r):	43.04	41.50	3.71	5
		e"	19.7800	Conductivity (σ):	0.93	0.92	2.17	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 ± 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 ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 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.

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 Room	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Date	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
B	12/15/2015	Head	D750V3 SN: 1024	5/12/2016	0.784	7.84	8.10	-3.21	0.517	5.17	5.33	-3.00	
B	12/15/2015	Body	D750V3 SN: 1024	5/12/2016	0.787	7.87	8.41	-6.42	0.525	5.25	5.60	-6.25	1,2
B	12/21/2015	Body	D750V3 SN: 1024	5/12/2016	0.851	8.51	8.41	1.19	0.568	5.68	5.60	1.43	
B	12/22/2015	Body	D1900V2 SN: 5d043	11/17/2016	4.31	43.1	40.2	7.21	2.20	22.0	21.1	4.27	3,4
B	12/28/2015	Head	D1900V2 SN: 5d163	9/21/2016	4.06	40.6	40.1	1.25	2.07	20.7	21.0	-1.43	5,6
B	1/9/2016	Head	D5GHzV2 SN: 1168 (5.2 GHz)	11/13/2016	7.47	74.7	78.4	-4.72	2.14	21.4	22.5	-4.89	
B	1/9/2016	Head	D5GHzV2 SN: 1168 (5.6 GHz)	11/13/2016	8.34	83.4	87.6	-4.79	2.35	23.5	24.8	-5.24	7,8
B	1/9/2016	Head	D5GHzV2 SN: 1168 (5.8 GHz)	11/13/2016	7.80	78.0	81.0	-3.70	2.20	22.0	23.0	-4.35	
E	12/7/2015	Head	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.24	72.4	76.4	-5.24	2.07	20.7	21.9	-5.48	
E	12/7/2015	Head	D5GHzV2 SN: 1003 (5.6 GHz)	2/20/2016	8.04	80.4	79.6	1.01	2.25	22.5	22.8	-1.32	
E	12/7/2015	Head	D5GHzV2 SN: 1003 (5.8 GHz)	2/20/2016	7.27	72.7	76.1	-4.47	2.05	20.5	21.7	-5.53	
E	12/7/2015	Body	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.41	74.1	72.7	1.93	2.10	21.0	20.4	2.94	
E	12/7/2015	Body	D5GHzV2 SN: 1003 (5.6 GHz)	2/20/2016	7.74	77.4	77.0	0.52	2.16	21.6	21.3	1.41	
E	12/7/2015	Body	D5GHzV2 SN: 1003 (5.8 GHz)	2/20/2016	7.78	77.8	75.0	3.73	2.19	21.9	20.6	6.31	
E	12/10/2015	Head	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.05	70.5	76.4	-7.72	2.03	20.3	21.9	-7.31	9,10
E	12/10/2015	Body	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.71	77.1	72.7	6.05	2.19	21.9	20.4	7.35	
E	12/14/2015	Head	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.30	73.0	76.4	-4.45	2.10	21.0	21.9	-4.11	
E	12/14/2015	Body	D5GHzV2 SN: 1003 (5.2 GHz)	2/20/2016	7.51	75.1	72.7	3.30	2.13	21.3	20.4	4.41	
E	12/17/2015	Head	D1750V2 SN: 1053	8/11/2016	3.50	35.0	37.1	-5.66	1.85	18.5	19.8	-6.57	
E	12/17/2015	Body	D1750V2 SN: 1053	8/11/2016	3.73	37.3	37.5	-0.53	1.99	19.9	20.3	-1.97	
E	12/21/2015	Head	D1750V2 SN: 1053	8/11/2016	3.56	35.6	37.1	-4.04	1.86	18.6	19.8	-6.06	
E	12/21/2015	Body	D1750V2 SN: 1053	8/11/2016	3.75	37.5	37.5	0.00	1.99	19.9	20.3	-1.97	
E	12/28/2015	Head	D1750V2 SN: 1053	8/11/2016	3.62	36.2	37.1	-2.43	1.89	18.9	19.8	-4.55	
E	12/28/2015	Body	D1750V2 SN: 1053	8/11/2016	3.71	37.1	37.5	-1.07	1.97	19.7	20.3	-2.96	
E	1/4/2016	Head	D1750V2 SN: 1053	8/11/2016	3.63	36.3	37.1	-2.16	1.90	19.0	19.8	-4.04	
E	1/4/2016	Body	D1750V2 SN: 1053	8/11/2016	3.81	38.1	37.5	1.60	2.02	20.2	20.3	-0.49	
E	1/7/2016	Head	D1750V2 SN: 1053	8/11/2016	3.50	35.0	37.1	-5.66	1.84	18.4	19.8	-7.07	11,12
E	1/7/2016	Body	D1750V2 SN: 1053	8/11/2016	3.58	35.8	37.5	-4.53	1.90	19.0	20.3	-6.40	

System Check Results (continued)

SAR Room	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
F	12/7/2015	Head	D2450V2 SN: 706	5/11/2016	5.21	52.1	52.6	-0.95	2.37	23.7	24.6	-3.66	
F	12/7/2015	Body	D2450V2 SN: 706	5/11/2016	4.86	48.6	51.3	-5.26	2.26	22.6	24.0	-5.83	
F	12/11/2015	Head	D2450V2 SN: 706	5/11/2016	5.09	50.9	52.6	-3.23	2.32	23.2	24.6	-5.69	
F	12/11/2015	Body	D2450V2 SN: 706	5/11/2016	4.95	49.5	51.3	-3.51	2.29	22.9	24.0	-4.58	
F	12/14/2015	Head	D2450V2 SN: 706	5/11/2016	5.10	51.0	52.6	-3.04	2.32	23.2	24.6	-5.69	
F	12/14/2015	Body	D2450V2 SN: 706	5/11/2016	4.86	48.6	51.3	-5.26	2.25	22.5	24.0	-6.25	13,14
F	12/17/2015	Head	D2600V2 SN: 1006	9/21/2016	5.77	57.7	56.9	1.41	2.54	25.4	25.5	-0.39	
F	12/17/2015	Body	D2600V2 SN: 1006	9/21/2016	5.40	54.0	55.3	-2.35	2.38	23.8	24.8	-4.03	
F	12/21/2015	Head	D2600V2 SN: 1006	9/21/2016	6.06	60.6	56.9	6.50	2.63	26.3	25.5	3.14	
F	12/21/2015	Body	D2600V2 SN: 1006	9/21/2016	5.25	52.5	55.3	-5.06	2.29	22.9	24.8	-7.66	
F	12/28/2015	Head	D2600V2 SN: 1006	9/21/2016	6.11	61.1	56.9	7.38	2.66	26.6	25.5	4.31	15,16
F	12/28/2015	Body	D2600V2 SN: 1006	9/21/2016	5.61	56.1	55.3	1.45	2.43	24.3	24.8	-2.02	
F	1/4/2016	Head	D2600V2 SN: 1006	9/21/2016	5.94	59.4	56.9	4.39	2.59	25.9	25.5	1.57	
F	1/4/2016	Body	D2600V2 SN: 1006	9/21/2016	5.37	53.7	55.3	-2.89	2.33	23.3	24.8	-6.05	
F	1/7/2016	Head	D2600V2 SN: 1006	9/21/2016	5.96	59.6	56.9	4.75	2.59	25.9	25.5	1.57	
F	1/7/2016	Body	D2600V2 SN: 1006	9/21/2016	5.52	55.2	55.3	-0.18	2.39	23.9	24.8	-3.63	
F	1/11/2016	Head	D2600V2 SN: 1006	9/21/2016	5.94	59.4	56.9	4.39	2.60	26.0	25.5	1.96	
F	1/11/2016	Body	D2600V2 SN: 1006	9/21/2016	5.75	57.5	55.3	3.98	2.50	25.0	24.8	0.81	
F	1/12/2016	Head	D2450V2 SN: 748	2/20/2016	5.35	53.5	52.7	1.52	2.43	24.3	24.6	-1.22	
F	1/12/2016	Body	D2450V2 SN: 748	2/20/2016	5.12	51.2	50.3	1.79	2.33	23.3	23.5	-0.85	17,18
F	1/28/2016	Body	D835V2 SN: 4d002	11/12/2016	0.968	9.68	9.47	2.22	0.640	6.40	6.21	3.06	19,20
G	12/7/2015	Head	D5GHzV2 SN: 1168 (5.2 GHz)	11/13/2016	7.64	76.4	78.4	-2.55	2.18	21.8	22.5	-3.11	
G	12/7/2015	Head	D5GHzV2 SN: 1168 (5.6 GHz)	11/13/2016	8.39	83.9	87.6	-4.22	2.35	23.5	24.8	-5.24	
G	12/7/2015	Head	D5GHzV2 SN: 1168 (5.8 GHz)	11/13/2016	7.79	77.9	81.0	-3.83	2.19	21.9	23.0	-4.78	
G	12/7/2015	Body	D5GHzV2 SN: 1168 (5.2 GHz)	11/13/2016	7.97	79.7	75.0	6.27	2.24	22.4	21.0	6.67	21,22
G	12/7/2015	Body	D5GHzV2 SN: 1168 (5.6 GHz)	11/13/2016	8.61	86.1	82.5	4.36	2.39	23.9	23.0	3.91	
G	12/7/2015	Body	D5GHzV2 SN: 1168 (5.8 GHz)	11/13/2016	7.80	78.0	78.1	-0.13	2.15	21.5	21.6	-0.46	
G	12/10/2015	Head	D5GHzV2 SN: 1168 (5.8 GHz)	11/13/2016	7.43	74.3	81.0	-8.27	2.11	21.1	23.0	-8.26	
G	12/10/2015	Body	D5GHzV2 SN: 1168 (5.8 GHz)	11/13/2016	7.32	73.2	78.1	-6.27	2.03	20.3	21.6	-6.02	
G	12/14/2015	Head	D5GHzV2 SN: 1168 (5.2 GHz)	11/13/2016	7.35	73.5	76.4	-3.80	2.11	21.1	21.9	-3.65	
G	12/14/2015	Head	D5GHzV2 SN: 1168 (5.6 GHz)	11/13/2016	7.70	77.0	81.0	-4.94	2.17	21.7	23.0	-5.65	
G	12/14/2015	Body	D5GHzV2 SN: 1168 (5.2 GHz)	11/13/2016	7.59	75.9	72.7	4.40	2.14	21.4	20.4	4.90	
G	12/14/2015	Body	D5GHzV2 SN: 1168 (5.6 GHz)	11/13/2016	7.90	79.0	78.1	1.15	2.20	22.0	21.6	1.85	
G	12/15/2015	Head	D1900V2 SN: 5d043	11/17/2016	4.09	40.9	40.0	2.25	2.09	20.9	20.9	0.00	
G	12/15/2015	Body	D1900V2 SN: 5d043	11/17/2016	4.37	43.7	40.2	8.71	2.24	22.4	21.1	6.16	
G	12/17/2015	Head	D1900V2 SN: 5d043	11/17/2016	4.26	42.6	40.0	6.50	2.18	21.8	20.9	4.31	
G	12/17/2015	Body	D1900V2 SN: 5d043	11/17/2016	4.12	41.2	40.2	2.49	2.10	21.0	21.1	-0.47	
G	12/21/2015	Head	D1900V2 SN: 5d043	11/17/2016	4.23	42.3	40.0	5.75	2.15	21.5	20.9	2.87	
G	12/21/2015	Body	D1900V2 SN: 5d043	11/17/2016	4.28	42.8	40.2	6.47	2.18	21.8	21.1	3.32	
G	12/28/2015	Head	D1900V2 SN: 5d043	11/17/2016	3.98	39.8	40.0	-0.50	2.02	20.2	20.9	-3.35	
G	12/28/2015	Body	D1900V2 SN: 5d043	11/17/2016	4.09	40.9	40.2	1.74	2.07	20.7	21.1	-1.90	
G	1/4/2016	Head	D1900V2 SN: 5d043	11/17/2016	4.30	43.0	40.0	7.50	2.19	21.9	20.9	4.78	
G	1/4/2016	Body	D1900V2 SN: 5d043	11/17/2016	4.39	43.9	40.2	9.20	2.23	22.3	21.1	5.69	23,24

System Check Results (continued)

SAR Room	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Date	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
G	1/7/2016	Head	D1900V2 SN: 5d043	11/17/2016	4.28	42.8	40.0	7.00	2.18	21.8	20.9	4.31	
G	1/7/2016	Body	D1900V2 SN: 5d043	11/17/2016	4.31	43.1	40.2	7.21	2.18	21.8	21.1	3.32	
G	1/11/2016	Head	D1900V2 SN: 5d043	11/17/2016	4.14	41.4	40.0	3.50	2.12	21.2	20.9	1.44	
G	1/11/2016	Body	D1900V2 SN: 5d043	11/17/2016	4.23	42.3	40.2	5.22	2.15	21.5	21.1	1.90	
G	1/13/2016	Body	D5GHz V2 SN: 1138 (5.2 GHz)	9/25/2016	7.46	74.6	76.9	-2.99	2.10	21.0	21.5	-2.33	25,26
G	1/13/2016	Body	D5GHz V2 SN: 1138 (5.6 GHz)	9/25/2016	7.95	79.5	81.6	-2.57	2.21	22.1	22.8	-3.07	
G	1/13/2016	Body	D5GHz V2 SN: 1138 (5.8 GHz)	9/25/2016	7.60	76.0	77.9	-2.44	2.10	21.0	21.6	-2.78	
H	12/7/2015	Head	D5GHz V2 SN:1003 (5.2 GHz)	2/20/2016	7.83	78.3	76.4	2.49	2.22	22.2	21.9	1.37	
H	12/7/2015	Head	D5GHz V2 SN:1003 (5.6 GHz)	2/20/2016	7.89	78.9	79.6	-0.88	2.22	22.2	22.8	-2.63	
H	12/7/2015	Head	D5GHz V2 SN:1003 (5.8 GHz)	2/20/2016	7.34	73.4	76.1	-3.55	2.08	20.8	21.7	-4.15	
H	12/7/2015	Body	D5GHz V2 SN:1003 (5.2 GHz)	2/20/2016	7.61	76.1	72.7	4.68	2.14	21.4	20.4	4.90	
H	12/7/2015	Body	D5GHz V2 SN:1003 (5.6 GHz)	2/20/2016	8.25	82.5	77.0	7.14	2.30	23.0	21.3	7.98	
H	12/7/2015	Body	D5GHz V2 SN:1003 (5.8 GHz)	2/20/2016	7.60	76.0	75.0	1.33	2.12	21.2	20.6	2.91	
H	12/10/2015	Head	D5GHz V2 SN:1003 (5.6 GHz)	2/20/2016	7.48	74.8	79.6	-6.03	2.12	21.2	22.8	-7.02	
H	12/10/2015	Body	D5GHz V2 SN:1003 (5.6 GHz)	2/20/2016	8.29	82.9	77.0	7.66	2.33	23.3	21.3	9.39	27,28
H	12/14/2015	Head	D5GHz V2 SN: 1168 (5.6 GHz)	2/20/2016	8.17	81.7	87.6	-6.74	2.30	23.0	24.8	-7.26	29,30
H	12/14/2015	Body	D5GHz V2 SN: 1168 (5.6 GHz)	2/20/2016	7.81	78.1	82.5	-5.33	2.19	21.9	23.0	-4.78	
H	12/15/2015	Head	D835V2 SN: 4d002	11/12/2016	0.977	9.77	9.06	7.84	0.644	6.44	5.90	9.15	31,32
H	12/15/2015	Body	D835V2 SN: 4d002	11/12/2016	0.917	9.17	9.47	-3.17	0.604	6.04	6.21	-2.74	
H	12/17/2015	Head	D835V2 SN: 4d002	11/12/2016	0.933	9.33	9.06	2.98	0.610	6.10	5.90	3.39	
H	12/17/2015	Body	D835V2 SN: 4d002	11/12/2016	0.949	9.49	9.47	0.21	0.628	6.28	6.21	1.13	
H	12/21/2015	Head	D835V2 SN: 4d002	11/12/2016	0.856	8.56	9.06	-5.52	0.566	5.66	5.90	-4.07	
H	12/21/2015	Body	D835V2 SN: 4d002	11/12/2016	0.911	9.11	9.47	-3.80	0.601	6.01	6.21	-3.22	
H	12/28/2015	Head	D835V2 SN: 4d002	11/12/2016	0.949	9.49	9.06	4.75	0.628	6.28	5.90	6.44	
H	12/28/2015	Body	D835V2 SN: 4d002	11/12/2016	0.972	9.72	9.47	2.64	0.641	6.41	6.21	3.22	
H	1/4/2016	Head	D835V2 SN: 4d002	11/12/2016	0.960	9.60	9.06	5.96	0.636	6.36	5.90	7.80	
H	1/4/2016	Body	D835V2 SN: 4d002	11/12/2016	0.943	9.43	9.47	-0.42	0.621	6.21	6.21	0.00	
H	1/7/2016	Head	D835V2 SN: 4d002	11/12/2016	0.885	8.85	9.06	-2.32	0.587	5.87	5.90	-0.51	
H	1/7/2016	Body	D835V2 SN: 4d002	11/12/2016	0.957	9.57	9.47	1.06	0.633	6.33	6.21	1.93	
H	1/11/2016	Head	D835V2 SN: 4d002	11/12/2016	0.951	9.51	9.06	4.97	0.634	6.34	5.90	7.46	
H	1/11/2016	Body	D835V2 SN: 4d002	11/12/2016	0.959	9.59	9.47	1.27	0.633	6.33	6.21	1.93	
H	1/28/2016	Head	D835V2 SN: 4d002	11/12/2016	0.941	9.41	9.06	3.86	0.624	6.24	5.90	5.76	

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	33.2	33.2	33.5	33.5
	190	836.6	33.2	33.2	33.5	33.5
	251	848.8	33.2	33.2	33.5	33.5

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	33.2	30.2	33.2	30.2	33.5	30.2	33.5	30.5
	190	836.6	33.2	30.2	33.2	30.2	33.5	30.2	33.5	30.5
	251	848.8	33.2	30.2	33.2	30.2	33.5	30.2	33.5	30.5
Frame Power (dBm)										
850	128	824.2	24.2	24.2	24.2	24.2	24.5	24.2	24.5	24.5
	190	836.6	24.2	24.2	24.2	24.2	24.5	24.2	24.5	24.5
	251	848.8	24.2	24.2	24.2	24.2	24.5	24.2	24.5	24.5

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	27.7	27.7	27.7	27.7	28.0	28.0	28.0	28.0
	190.0	836.6	27.7	27.7	27.7	27.7	28.0	28.0	28.0	28.0
	251.0	848.8	27.7	27.7	27.7	27.7	28.0	28.0	28.0	28.0
Frame Power (dBm)										
850.0	128.0	824.2	18.7	21.7	18.7	21.7	19.0	22.0	19.0	22.0
	190.0	836.6	18.7	21.7	18.7	21.7	19.0	22.0	19.0	22.0
	251.0	848.8	18.7	21.7	18.7	21.7	19.0	22.0	19.0	22.0

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	29.9	29.9	30.5	29.0
	661	1880.0	29.9	29.9	30.5	29.0
	810	1909.8	29.9	29.9	30.5	29.0

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)				Burst Power (dBm)			
1900.0	512.0	1850.2	29.9	26.9	29.9	26.9	30.5	27.5	29.0	26.0
	661.0	1880.0	29.9	26.9	29.9	26.9	30.5	27.5	29.0	26.0
	810.0	1909.8	29.9	26.9	29.9	26.9	30.5	27.5	29.0	26.0
			Frame Power (dBm)				Frame Power (dBm)			
1900.0	512.0	1850.2	20.9	20.9	20.9	20.9	21.5	21.5	20.0	20.0
	661.0	1880.0	20.9	20.9	20.9	20.9	21.5	21.5	20.0	20.0
	810.0	1909.8	20.9	20.9	20.9	20.9	21.5	21.5	20.0	20.0

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	26.4	26.4	26.4	26.4	27.0	27.0	27.0	26.0
	661.0	1880.0	26.4	26.4	26.4	26.4	27.0	27.0	27.0	26.0
	810.0	1909.8	26.4	26.4	26.4	26.4	27.0	27.0	27.0	26.0
			Frame Power (dBm)				Frame Power (dBm)			
1900.0	512.0	1850.2	17.4	20.4	17.4	20.4	18.0	21.0	18.0	20.0
	661.0	1880.0	17.4	20.4	17.4	20.4	18.0	21.0	18.0	20.0
	810.0	1909.8	17.4	20.4	17.4	20.4	18.0	21.0	18.0	20.0

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	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
	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-DPDCCH	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

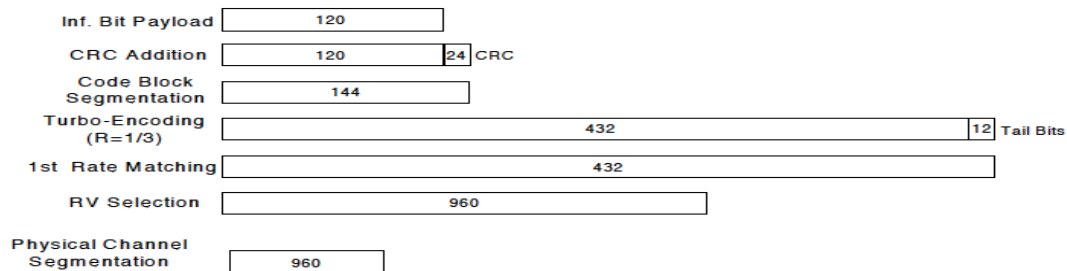
Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

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	24.7	24.7	25.0	24.0
			4183	836.6	N/A	24.7	24.7	25.0	24.0
			4233	846.6	N/A	24.7	24.7	25.0	24.0
	HSDPA	Subtest 1	4132	826.4	0	24.6	24.6	24.9	23.9
			4183	836.6	0	24.5	24.6	25.0	23.9
			4233	846.6	0	24.6	24.6	24.9	23.9
		Subtest 2	4132	826.4	0	24.6	24.6	24.9	23.9
			4183	836.6	0	24.6	24.6	24.9	24.0
			4233	846.6	0	24.7	24.7	24.9	24.0
		Subtest 3	4132	826.4	0.5	24.1	24.2	24.4	23.4
			4183	836.6	0.5	24.1	24.1	24.5	23.4
			4233	846.6	0.5	24.2	24.1	24.4	23.4
		Subtest 4	4132	826.4	0.5	24.2	24.2	24.5	23.4
			4183	836.6	0.5	24.1	24.1	24.4	23.5
			4233	846.6	0.5	24.1	24.1	24.4	23.4
	HSUPA	Subtest 1	4132	826.4	0	24.6	24.7	24.9	23.9
			4183	836.6	0	24.6	24.7	24.9	24.0
			4233	846.6	0	24.7	24.6	25.0	23.9
		Subtest 2	4132	826.4	2	22.7	22.7	22.9	21.9
			4183	836.6	2	22.7	22.6	22.9	21.8
			4233	846.6	2	22.6	22.7	23.0	21.9
		Subtest 3	4132	826.4	1	23.6	23.6	23.9	22.9
			4183	836.6	1	23.6	23.7	23.9	22.9
			4233	846.6	1	23.7	23.6	24.0	22.9
		Subtest 4	4132	826.4	2	22.5	22.7	23.0	21.9
			4183	836.6	2	22.7	22.7	22.9	22.0
			4233	846.6	2	22.5	22.6	22.9	21.9
		Subtest 5	4132	826.4	0	24.6	24.6	24.9	23.9
			4183	836.6	0	24.6	24.6	25.0	23.8
			4233	846.6	0	24.7	24.6	25.0	23.9
	DC-HSDPA	Subtest 1	4132	826.4	0	24.7	24.6	25.0	23.9
			4183	836.6	0	24.6	24.6	24.9	23.9
			4233	846.6	0	24.7	24.6	24.9	24.0
		Subtest 2	4132	826.4	0	24.7	24.7	25.0	24.0
			4183	836.6	0	24.7	24.7	24.9	23.9
			4233	846.6	0	24.6	24.6	25.0	23.9
		Subtest 3	4132	826.4	0.5	24.2	24.2	24.4	23.4
			4183	836.6	0.5	24.1	24.1	24.5	23.4
			4233	846.6	0.5	24.1	24.2	24.4	23.3
		Subtest 4	4132	826.4	0.5	24.1	24.2	24.4	23.5
			4183	836.6	0.5	24.1	24.1	24.5	23.4
			4233	846.6	0.5	24.1	24.1	24.5	23.4

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	22.3	24.1	22.7	19.5
			1413	1732.6	N/A	22.3	24.1	22.7	19.5
			1513	1752.6	N/A	22.3	24.1	22.7	19.5
	HSDPA	Subtest 1	1312	1712.4	0	22.3	24.0	22.7	19.5
			1413	1732.6	0	22.2	23.8	22.7	19.4
			1513	1752.6	0	22.2	24.0	22.7	19.4
		Subtest 2	1312	1712.4	0	22.3	23.9	22.6	19.4
			1413	1732.6	0	22.3	23.9	22.6	19.4
			1513	1752.6	0	22.3	23.9	22.6	19.5
		Subtest 3	1312	1712.4	0.5	21.7	23.4	22.1	18.9
			1413	1732.6	0.5	21.8	23.4	22.1	18.9
			1513	1752.6	0.5	21.7	23.5	22.2	18.9
		Subtest 4	1312	1712.4	0.5	21.7	23.5	22.2	18.9
			1413	1732.6	0.5	21.8	23.4	22.1	18.8
			1513	1752.6	0.5	21.8	23.4	22.1	19.0
	HSUPA	Subtest 1	1312	1712.4	0	22.2	24.0	22.7	19.4
			1413	1732.6	0	22.3	23.9	22.7	19.4
			1513	1752.6	0	22.2	23.9	22.7	19.3
		Subtest 2	1312	1712.4	2	20.3	22.0	20.6	17.4
			1413	1732.6	2	20.2	21.9	20.6	17.4
			1513	1752.6	2	20.3	21.9	20.6	17.4
		Subtest 3	1312	1712.4	1	21.2	22.9	21.6	18.4
			1413	1732.6	1	21.2	22.9	21.6	18.5
			1513	1752.6	1	21.3	22.9	21.6	18.5
		Subtest 4	1312	1712.4	2	20.2	21.9	20.7	17.4
			1413	1732.6	2	20.3	21.9	20.6	17.4
			1513	1752.6	2	20.3	22.0	20.7	17.5
		Subtest 5	1312	1712.4	0	22.2	24.0	22.5	19.5
			1413	1732.6	0	22.2	23.9	22.7	19.5
			1513	1752.6	0	22.2	23.9	22.7	19.4
	DC-HSDPA	Subtest 1	1312	1712.4	0	22.2	23.9	22.6	19.5
			1413	1732.6	0	22.2	23.9	22.7	19.4
			1513	1752.6	0	22.3	23.9	22.6	19.4
		Subtest 2	1312	1712.4	0	22.3	23.9	22.6	19.5
			1413	1732.6	0	22.2	23.9	22.6	19.5
			1513	1752.6	0	22.3	24.0	22.6	19.5
		Subtest 3	1312	1712.4	0.5	21.8	23.4	22.1	18.9
			1413	1732.6	0.5	21.7	23.4	22.1	19.0
			1513	1752.6	0.5	21.8	23.5	22.2	18.9
		Subtest 4	1312	1712.4	0.5	21.7	23.4	22.1	19.0
			1413	1732.6	0.5	21.7	23.5	22.1	18.9
			1513	1752.6	0.5	21.8	23.4	22.1	18.9

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	21.7	22.5	22.4	18.0
			9400	1880.0	N/A	21.7	22.5	22.4	18.0
			9538	1907.6	N/A	21.6	22.4	22.5	18.0
	HSDPA	Subtest 1	9262	1852.4	0	21.7	22.4	22.5	17.9
			9400	1880.0	0	21.6	22.4	22.4	18.0
			9538	1907.6	0	21.6	22.4	22.3	18.0
		Subtest 2	9262	1852.4	0	21.7	22.3	22.4	17.9
			9400	1880.0	0	21.7	22.4	22.4	17.9
			9538	1907.6	0	21.7	22.4	22.4	17.9
		Subtest 3	9262	1852.4	0.5	21.1	21.9	22.0	17.4
			9400	1880.0	0.5	21.1	22.0	21.8	17.5
			9538	1907.6	0.5	21.1	22.0	22.0	17.4
		Subtest 4	9262	1852.4	0.5	21.1	22.0	22.0	17.4
			9400	1880.0	0.5	21.0	22.0	21.9	17.5
			9538	1907.6	0.5	21.1	21.9	22.0	17.4
	HSUPA	Subtest 1	9262	1852.4	0	21.7	22.5	22.4	17.9
			9400	1880.0	0	21.7	22.4	22.5	17.9
			9538	1907.6	0	21.6	22.5	22.5	17.9
		Subtest 2	9262	1852.4	2	19.6	20.4	20.4	15.8
			9400	1880.0	2	19.6	20.4	20.3	16.0
			9538	1907.6	2	19.6	20.4	20.4	15.9
		Subtest 3	9262	1852.4	1	20.7	21.4	21.4	17.0
			9400	1880.0	1	20.7	21.4	21.4	16.9
			9538	1907.6	1	20.6	21.4	21.3	16.9
		Subtest 4	9262	1852.4	2	19.7	20.5	20.4	15.9
			9400	1880.0	2	19.6	20.5	20.4	15.9
			9538	1907.6	2	19.6	20.5	20.4	15.9
		Subtest 5	9262	1852.4	0	21.7	22.4	22.4	17.9
			9400	1880.0	0	21.7	22.4	22.4	17.8
			9538	1907.6	0	21.6	22.4	22.4	17.9
	DC-HSDPA	Subtest 1	9262	1852.4	0	21.7	22.5	22.5	17.9
			9400	1880.0	0	21.6	22.4	22.4	18.0
			9538	1907.6	0	21.7	22.4	22.4	17.9
		Subtest 2	9262	1852.4	0	21.6	22.4	22.5	18.0
			9400	1880.0	0	21.6	22.4	22.4	17.9
			9538	1907.6	0	21.7	22.4	22.5	17.9
		Subtest 3	9262	1852.4	0.5	21.2	22.0	21.9	17.4
			9400	1880.0	0.5	21.1	22.0	22.0	17.5
			9538	1907.6	0.5	21.1	21.9	21.9	17.4
		Subtest 4	9262	1852.4	0.5	21.1	21.9	22.0	17.3
			9400	1880.0	0.5	21.2	21.9	21.9	17.5
			9538	1907.6	0.5	21.1	21.9	22.0	17.4

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	24.7	24.7	24.9	23.9
			384	836.52	24.7	24.7	24.8	23.9
			777	848.31	24.7	24.6	24.8	24.0
		RC3 SO55 (Loopback)	1013	824.70	24.7	24.6	25.0	23.9
			384	836.52	24.7	24.7	25.0	24.0
			777	848.31	24.7	24.7	25.0	23.9
		RC3 SO32 (+F-SCH)	1013	824.70	24.7	24.7	24.9	24.0
			384	836.52	24.6	24.7	24.8	24.0
			777	848.31	24.6	24.7	24.7	24.0
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	24.7	24.7	24.9	23.9
			384	836.52	24.6	24.7	24.9	23.8
			777	848.31	24.7	24.6	24.9	23.9
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	1013	824.70	24.7	24.7	25.0	24.0
			384	836.52	24.7	24.7	25.0	24.0
			777	848.31	24.7	24.7	25.0	24.0
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	1013	824.70	24.7	24.6	24.8	23.9
			384	836.52	24.6	24.6	24.7	24.0
			777	848.31	24.7	24.7	24.7	23.8

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	20.9	21.9	22.0	18.4
			600	1880.00	20.9	22.0	21.9	18.4
			1175	1908.75	21.0	22.0	21.9	18.4
		RC3 SO55 (Loopback)	25	1851.25	21.0	21.9	22.0	18.4
			600	1880.00	21.0	21.8	22.0	18.5
			1175	1908.75	21.0	21.9	22.0	18.4
		RC3 SO32 (+F-SCH)	25	1851.25	20.8	22.0	22.0	18.4
			600	1880.00	20.9	22.0	22.0	18.5
			1175	1908.75	20.7	22.0	21.9	18.5
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	20.8	21.9	21.9	18.4
			600	1880.00	20.8	21.9	21.9	18.3
			1175	1908.75	20.9	21.9	22.0	18.3
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1851.25	21.0	22.0	22.0	18.5
			600	1880.00	21.0	22.0	22.0	18.5
			1175	1908.75	21.0	22.0	22.0	18.5
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1851.25	20.9	21.8	21.8	18.4
			600	1880.00	20.9	21.9	21.9	18.4
			1175	1908.75	20.8	21.8	21.9	18.4

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	24.6	24.6	24.9	23.9
			580	820.50	24.7	24.7	25.0	23.9
			670	822.75	24.7	24.6	24.9	24.0
		RC3 SO55 (Loopback)	476	817.90	24.7	24.6	25.0	23.9
			580	820.50	24.7	24.7	25.0	24.0
			670	822.75	24.7	24.6	25.0	24.0
		RC3 SO32 (+F-SCH)	476	817.90	24.6	24.7	24.9	24.0
			580	820.50	24.6	24.7	25.0	24.0
			670	822.75	24.7	24.7	24.9	24.0
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	476	817.90	24.6	24.6	25.0	24.0
			580	820.50	24.7	24.7	25.0	23.9
			670	822.75	24.7	24.7	24.9	23.8
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	476	817.90	24.7	24.7	25.0	24.0
			580	820.50	24.7	24.7	25.0	24.0
			670	822.75	24.7	24.7	25.0	24.0
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	476	817.90	24.6	24.6	24.9	23.9
			580	820.50	24.6	24.7	24.9	23.9
			670	822.75	24.6	24.7	25.0	24.0

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	21.9	23.6	22.9	19.4
			450	1732.50	22.0	23.6	22.9	19.4
			875	1753.75	21.8	23.7	22.9	19.4
		RC3 SO55 (Loopback)	25	1711.25	22.0	23.7	23.0	19.5
			450	1732.50	22.0	23.6	23.0	19.5
			875	1753.75	22.0	23.7	23.0	19.4
		RC3 SO32 (+F-SCH)	25	1711.25	21.9	23.7	22.9	19.5
			450	1732.50	21.9	23.7	23.0	19.5
			875	1753.75	22.0	23.7	23.0	19.5
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1711.25	21.9	23.6	23.0	19.4
			450	1732.50	22.0	23.6	23.0	19.5
			875	1753.75	21.9	23.6	22.9	19.5
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1711.25	22.0	23.7	23.0	19.5
			450	1732.50	22.0	23.7	23.0	19.5
			875	1753.75	22.0	23.7	23.0	19.5
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1711.25	21.9	23.5	22.9	19.4
			450	1732.50	21.9	23.6	22.9	19.4
			875	1753.75	21.9	23.6	23.0	19.5

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 Signaling 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			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	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	21.4	21.5	21.4	0	22.4	22.5	22.4	0	22.0	22.0	21.9	0	17.9	17.9	17.8
			1	49	0	21.5	21.5	21.5	0	22.5	22.5	22.5	0	22.0	22.0	22.0	0	18.0	18.0	18.0
			1	99	0	21.4	21.4	21.4	0	22.5	22.5	22.4	0	22.0	21.9	21.8	0	17.9	17.9	18.0
			50	0	1	20.3	20.4	20.5	1	21.4	21.3	21.4	1	20.9	21.0	20.9	1	17.0	16.9	17.0
			50	24	1	20.5	20.5	20.5	1	21.5	21.5	21.5	1	21.0	21.0	21.0	1	17.0	17.0	17.0
			50	49	1	20.4	20.5	20.5	1	21.3	21.5	21.4	1	20.9	20.9	21.0	1	16.9	16.9	16.9
		16QAM	100	0	1	20.4	20.5	20.4	1	21.4	21.5	21.3	1	21.0	21.0	20.9	1	17.0	17.0	17.0
			1	0	1	20.4	20.4	20.4	1	21.5	21.4	21.5	1	20.9	20.9	21.0	1	16.9	17.0	17.0
			1	49	1	20.4	20.5	20.3	1	21.5	21.3	21.4	1	20.9	20.9	20.9	1	16.9	16.9	16.9
			1	99	1	20.4	20.5	20.4	1	21.4	21.5	21.4	1	20.9	20.8	21.0	1	16.9	16.9	17.0
			50	0	2	19.5	19.5	19.4	2	20.4	20.4	20.4	2	19.9	20.0	19.9	2	15.9	15.8	16.0
			50	24	2	19.4	19.4	19.5	2	20.4	20.4	20.3	2	20.0	19.8	20.0	2	15.8	15.9	15.8
			50	49	2	19.3	19.4	19.5	2	20.4	20.4	20.4	2	19.9	19.9	19.9	2	15.9	15.9	16.0
			100	0	2	19.4	19.4	19.5	2	20.4	20.4	20.4	2	19.9	19.9	19.9	2	15.8	15.9	15.9
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	21.4	21.4	21.4	0	22.4	22.5	22.4	0	21.9	21.9	21.9	0	18.0	18.0	18.0
			1	36	0	21.5	21.4	21.5	0	22.4	22.4	22.4	0	21.8	22.0	21.9	0	17.9	17.9	17.9
			1	74	0	21.5	21.4	21.4	0	22.4	22.4	22.4	0	21.9	22.0	21.9	0	17.9	17.9	17.9
			36	0	1	20.4	20.4	20.5	1	21.4	21.5	21.5	1	20.9	20.9	20.9	1	16.9	16.9	16.9
			36	18	1	20.4	20.5	20.4	1	21.4	21.4	21.5	1	21.0	20.9	20.9	1	16.9	17.0	16.9
			36	37	1	20.4	20.4	20.5	1	21.4	21.4	21.4	1	20.9	20.8	20.8	1	16.9	16.9	16.9
		16QAM	75	0	1	20.4	20.4	20.5	1	21.5	21.5	21.4	1	20.9	20.9	20.9	1	16.8	16.8	17.0
			1	0	1	20.5	20.5	20.4	1	21.5	21.3	21.4	1	20.9	20.9	20.9	1	16.9	16.8	16.9
			1	36	1	20.4	20.5	20.4	1	21.5	21.3	21.4	1	20.9	20.9	21.0	1	17.0	16.9	17.0
			1	74	1	20.5	20.4	20.5	1	21.4	21.4	21.4	1	20.9	21.0	20.9	1	17.0	16.9	17.0
			36	0	2	19.5	19.4	19.4	2	20.4	20.3	20.3	2	19.8	19.9	19.8	2	15.9	16.0	15.8
			36	18	2	19.5	19.5	19.5	2	20.5	20.4	20.4	2	19.9	19.9	20.0	2	16.0	15.8	16.0
			36	37	2	19.4	19.4	19.4	2	20.5	20.5	20.4	2	20.0	19.9	19.9	2	15.9	16.0	15.9
			75	0	2	19.4	19.5	19.4	2	20.4	20.4	20.4	2	19.9	19.9	20.0	2	15.9	15.9	16.0
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	21.4	21.5	21.4	0	22.4	22.5	22.4	0	21.9	21.9	21.9	0	17.9	17.9	17.9
			1	24	0	21.4	21.4	21.3	0	22.3	22.4	22.4	0	22.0	21.9	22.0	0	18.0	18.0	17.9
			1	49	0	21.4	21.4	21.4	0	22.5	22.4	22.4	0	21.9	21.9	22.0	0	17.9	18.0	17.8
			25	0	1	20.3	20.4	20.4	1	21.4	21.4	21.5	1	21.0	20.9	20.9	1	16.9	16.9	16.9
			25	12	1	20.4	20.4	20.4	1	21.5	21.4	21.5	1	20.9	21.0	21.0	1	16.9	17.0	16.9
			25	24	1	20.5	20.5	20.4	1	21.5	21.4	21.5	1	20.9	20.9	21.0	1	17.0	16.9	16.8
		16QAM	50	0	1	20.5	20.4	20.5	1	21.5	21.4	21.4	1	21.0	20.9	20.9	1	17.0	16.9	17.0
			1	0	1	20.4	20.3	20.4	1	21.5	21.4	21.5	1	20.8	21.0	21.0	1	16.9	16.9	16.9
			1	24	1	20.5	20.5	20.4	1	21.4	21.4	21.5	1	21.0	20.8	20.9	1	16.9	17.0	16.8
			1	49	1	20.4	20.4	20.5	1	21.5	21.4	21.4	1	20.9	20.9	21.0	1	16.9	16.9	16.9
			25	0	2	19.5	19.4	19.4	2	20.4	20.5	20.4	2	19.9	20.0	20.0	2	16.0	15.9	15.9
			25	12	2	19.4	19.4	19.5	2	20.4	20.4	20.4	2	20.0	20.0	19.8	2	15.9	15.9	15.9
			25	24	2	19.5	19.4	19.5	2	20.5	20.5	20.4	2	20.0	20.0	19.9	2	15.9	16.0	15.9
			50	0	2	19.4	19.5	19.4	2	20.4	20.4	20.5	2	19.9	20.0	19.9	2	15.9	15.9	15.9

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	21.4	21.4	21.4	0	22.5	22.4	22.5	0	21.9	21.9	21.9	0	18.0	17.8	17.9
			1	12	0	21.4	21.3	21.5	0	22.4	22.4	22.5	0	21.9	22.0	21.9	0	17.9	18.0	17.9
			1	24	0	21.5	21.5	21.4	0	22.3	22.5	22.5	0	21.9	21.9	22.0	0	17.9	17.9	17.9
			12	0	1	20.4	20.4	20.5	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	16.9	16.9	16.9
			12	7	1	20.4	20.5	20.4	1	21.3	21.5	21.5	1	20.9	20.9	20.9	1	16.9	17.0	16.9
			12	13	1	20.5	20.5	20.3	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	16.9	17.0	17.0
		16QAM	25	0	1	20.5	20.4	20.5	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	16.9	17.0	16.9
			1	0	1	20.4	20.4	20.5	1	21.4	21.5	21.4	1	21.0	20.9	20.9	1	16.9	17.0	16.9
			1	12	1	20.4	20.4	20.4	1	21.4	21.5	21.5	1	20.9	21.0	21.0	1	17.0	16.9	16.9
			1	24	1	20.5	20.4	20.4	1	21.4	21.4	21.5	1	20.9	20.9	21.0	1	16.9	16.9	17.0
			12	0	2	19.4	19.4	19.5	2	20.5	20.5	20.5	2	19.9	19.9	19.9	2	16.0	15.9	15.9
			12	7	2	19.3	19.5	19.4	2	20.3	20.4	20.4	2	19.9	19.8	19.9	2	16.0	15.9	15.9
			12	13	2	19.4	19.5	19.4	2	20.4	20.4	20.5	2	20.0	19.9	20.0	2	15.9	15.9	15.9
			25	0	2	19.5	19.4	19.4	2	20.4	20.4	20.4	2	19.9	19.9	20.0	2	16.0	16.0	15.9
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	21.4	21.4	21.4	0	22.4	22.4	22.4	0	22.0	21.9	21.9	0	17.9	18.0	18.0
			1	8	0	21.3	21.3	21.4	0	22.4	22.4	22.3	0	21.9	21.9	21.9	0	18.0	18.0	17.8
			1	14	0	21.4	21.4	21.5	0	22.4	22.5	22.4	0	21.9	22.0	21.9	0	17.8	18.0	18.0
			8	0	1	20.4	20.5	20.5	1	21.4	21.4	21.5	1	20.9	21.0	21.0	1	16.9	16.9	16.9
			8	4	1	20.5	20.5	20.5	1	21.5	21.4	21.5	1	20.9	20.9	21.0	1	17.0	16.9	17.0
			8	7	1	20.3	20.5	20.5	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	16.9	16.9	16.9
		16QAM	15	0	1	20.4	20.4	20.4	1	21.5	21.4	21.4	1	20.9	20.9	21.0	1	16.9	16.9	16.9
			1	0	1	20.4	20.5	20.4	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	17.0	17.0	16.9
			1	8	1	20.5	20.4	20.4	1	21.5	21.4	21.4	1	21.0	21.0	20.9	1	16.9	16.9	17.0
			1	14	1	20.4	20.4	20.4	1	21.4	21.4	21.4	1	20.9	20.9	21.0	1	17.0	16.9	16.9
			8	0	2	19.4	19.3	19.4	2	20.3	20.4	20.4	2	19.9	20.0	19.9	2	16.0	15.9	15.9
			8	4	2	19.4	19.4	19.4	2	20.4	20.5	20.5	2	19.9	19.9	19.9	2	16.0	15.9	15.9
			8	7	2	19.5	19.4	19.4	2	20.5	20.4	20.4	2	19.9	19.9	19.9	2	15.9	16.0	15.9
			15	0	2	19.5	19.4	19.4	2	20.5	20.5	20.4	2	20.0	19.9	19.9	2	15.9	15.9	15.9
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	21.4	21.4	21.4	0	22.5	22.4	22.4	0	22.0	21.9	21.9	0	18.0	18.0	17.9
			1	3	0	21.4	21.4	21.4	0	22.5	22.5	22.4	0	21.9	21.9	21.9	0	17.9	17.9	17.8
			1	5	0	21.5	21.5	21.4	0	22.4	22.4	22.4	0	22.0	22.0	21.9	0	18.0	17.9	17.8
			3	0	0	21.4	21.4	21.5	0	22.4	22.5	22.4	0	21.9	22.0	22.0	0	17.9	17.9	17.9
			3	1	0	21.4	21.5	21.4	0	22.5	22.4	22.4	0	21.9	21.9	21.9	0	17.8	17.9	17.9
			3	3	0	21.4	21.4	21.4	0	22.3	22.4	22.4	0	21.9	21.9	21.9	0	18.0	17.9	17.9
		16QAM	6	0	1	20.5	20.5	20.4	1	21.4	21.5	21.4	1	21.0	20.9	20.9	1	17.0	16.9	16.9
			1	0	1	20.5	20.5	20.5	1	21.4	21.4	21.4	1	20.9	20.8	20.9	1	16.9	16.9	16.9
			1	3	1	20.5	20.5	20.5	1	21.4	21.4	21.4	1	20.9	21.0	20.9	1	16.9	16.9	16.9
			1	5	1	20.4	20.5	20.4	1	21.4	21.4	21.4	1	21.0	21.0	21.0	1	17.0	17.0	16.9
			3	0	1	20.3	20.4	20.5	1	21.5	21.5	21.4	1	20.8	21.0	21.0	1	17.0	16.9	16.9
			3	1	1	20.5	20.4	20.4	1	21.4	21.4	21.4	1	20.9	20.9	20.9	1	17.0	17.0	17.0
			3	3	1	20.5	20.4	20.4	1	21.4	21.5	21.5	1	21.0	20.9	20.9	1	16.8	16.9	16.9
			6	0	2	19.5	19.4	19.4	2	20.4	20.5	20.4	2	20.0	19.9	19.9	2	15.9	16.0	15.9

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	23.0	22.8	22.9	0	23.3	23.2	23.4	0	22.9	22.9	22.9	0	19.4	19.3	19.5
			1	49	0	23.0	23.0	23.0	0	23.4	23.4	23.4	0	23.0	23.0	23.0	0	19.5	19.5	19.5
			1	99	0	22.9	22.9	22.9	0	23.3	23.2	23.3	0	22.9	22.9	23.0	0	19.5	19.4	19.4
			50	0	1	21.9	21.9	21.9	1	22.3	22.3	22.3	1	21.9	21.9	21.9	1	18.4	18.5	18.4
			50	24	1	22.0	22.0	22.0	1	22.4	22.4	22.4	1	22.0	22.0	22.0	1	18.5	18.5	18.5
			50	49	1	22.0	21.9	21.9	1	22.3	22.3	22.3	1	21.9	21.9	21.9	1	18.4	18.5	18.5
			100	0	1	21.9	22.0	21.9	1	22.3	22.3	22.2	1	21.9	22.0	21.9	1	18.5	18.4	18.4
		16QAM	1	0	1	22.0	21.9	21.8	1	22.3	22.3	22.3	1	21.9	21.9	21.9	1	18.5	18.5	18.5
			1	49	1	21.9	21.9	21.9	1	22.4	22.3	22.3	1	21.9	21.9	21.9	1	18.5	18.4	18.5
			1	99	1	21.9	21.8	22.0	1	22.4	22.4	22.4	1	22.0	21.9	21.9	1	18.5	18.5	18.4
			50	0	2	20.9	20.9	20.8	2	21.3	21.3	21.3	2	20.9	20.9	20.9	2	17.4	17.5	17.3
			50	24	2	20.9	20.9	20.9	2	21.3	21.3	21.4	2	20.8	20.9	20.9	2	17.5	17.5	17.5
			50	49	2	20.9	21.0	20.9	2	21.3	21.3	21.3	2	21.0	21.0	21.0	2	17.4	17.4	17.4
			100	0	2	21.0	20.9	20.9	2	21.3	21.2	21.4	2	21.0	20.9	21.0	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	22.9	22.9	22.9	0	23.3	23.4	23.3	0	22.9	22.9	22.9	0	19.4	19.3	19.3
			1	36	0	23.0	23.0	22.9	0	23.3	23.3	23.3	0	22.9	22.9	23.0	0	19.4	19.4	19.5
			1	74	0	23.0	22.9	22.9	0	23.3	23.3	23.4	0	22.9	23.0	22.9	0	19.4	19.5	19.4
			36	0	1	21.9	22.0	21.9	1	22.3	22.4	22.3	1	21.9	22.0	21.9	1	18.4	18.4	18.5
			36	18	1	22.0	21.9	21.8	1	22.2	22.3	22.4	1	21.9	21.9	22.0	1	18.4	18.4	18.5
			36	37	1	21.9	21.9	21.9	1	22.3	22.3	22.4	1	22.0	21.9	21.8	1	18.4	18.4	18.4
			75	0	1	22.0	21.9	22.0	1	22.4	22.4	22.3	1	21.9	21.9	22.0	1	18.4	18.5	18.4
		16QAM	1	0	1	21.9	22.0	21.9	1	22.4	22.4	22.4	1	21.9	22.0	22.0	1	18.4	18.4	18.3
			1	36	1	21.9	21.9	21.9	1	22.3	22.4	22.3	1	21.9	22.0	21.9	1	18.4	18.5	18.4
			1	74	1	21.9	22.0	22.0	1	22.3	22.4	22.4	1	21.9	21.9	21.9	1	18.4	18.3	18.4
			36	0	2	21.0	20.9	21.0	2	21.3	21.3	21.4	2	21.0	20.9	20.9	2	17.5	17.5	17.5
			36	18	2	20.9	20.9	20.9	2	21.4	21.4	21.3	2	21.0	21.0	21.0	2	17.5	17.4	17.4
			36	37	2	21.0	20.9	21.0	2	21.3	21.4	21.2	2	21.0	20.9	20.9	2	17.4	17.3	17.4
			75	0	2	20.9	20.9	20.9	2	21.4	21.4	21.4	2	20.9	20.9	20.9	2	17.4	17.4	17.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	22.9	22.9	22.9	0	23.3	23.4	23.3	0	22.9	22.9	23.0	0	19.4	19.5	19.5
			1	24	0	23.0	22.9	22.9	0	23.3	23.2	23.4	0	22.9	22.8	22.9	0	19.5	19.4	19.4
			1	49	0	23.0	22.9	23.0	0	23.3	23.2	23.3	0	22.9	22.9	22.9	0	19.4	19.3	19.4
			25	0	1	21.8	21.9	21.9	1	22.4	22.3	22.3	1	21.9	21.9	21.9	1	18.4	18.3	18.5
			25	12	1	21.9	21.9	21.9	1	22.3	22.2	22.3	1	22.0	21.9	21.9	1	18.4	18.4	18.4
			25	24	1	21.9	21.9	21.9	1	22.2	22.3	22.3	1	21.9	21.9	22.0	1	18.5	18.4	18.4
		16QAM	50	0	1	21.9	21.9	22.0	1	22.4	22.3	22.4	1	21.8	21.8	21.9	1	18.4	18.5	18.4
			1	0	1	21.9	22.0	22.0	1	22.3	22.3	22.3	1	22.0	21.9	21.9	1	18.5	18.5	18.4
			1	24	1	22.0	21.9	21.9	1	22.3	22.3	22.4	1	21.9	21.8	22.0	1	18.4	18.4	18.4
			1	49	1	22.0	21.9	21.9	1	22.3	22.2	22.4	1	21.9	21.9	22.0	1	18.4	18.5	18.4
			25	0	2	21.0	20.9	20.9	2	21.3	21.3	21.3	2	20.9	20.9	20.9	2	17.4	17.4	17.4
			25	12	2	20.9	21.0	20.8	2	21.3	21.4	21.3	2	20.9	21.0	20.9	2	17.4	17.4	17.5
			25	24	2	20.9	21.0	20.9	2	21.3	21.3	21.3	2	20.9	21.0	20.9	2	17.4	17.3	17.5
			50	0	2	20.8	21.0	20.9	2	21.3	21.2	21.3	2	20.9	20.9	20.9	2	17.4	17.5	17.5

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	23.0	22.8	22.9	0	23.3	23.4	23.3	0	23.0	22.9	22.9	0	19.5	19.4	19.4
			1	12	0	22.9	22.9	23.0	0	23.4	23.3	23.4	0	22.9	22.9	22.9	0	19.5	19.5	19.4
			1	24	0	22.9	22.8	22.9	0	23.2	23.3	23.3	0	23.0	23.0	22.9	0	19.4	19.4	19.4
			12	0	1	21.9	21.9	21.9	1	22.4	22.3	22.3	1	21.8	21.9	21.9	1	18.3	18.5	18.3
			12	7	1	21.8	21.9	22.0	1	22.3	22.4	22.3	1	21.9	21.9	21.9	1	18.5	18.4	18.4
			12	13	1	21.9	21.9	21.9	1	22.2	22.3	22.4	1	21.9	21.9	21.9	1	18.5	18.4	18.4
		16QAM	25	0	1	22.0	22.0	21.9	1	22.3	22.3	22.2	1	21.8	21.9	22.0	1	18.5	18.5	18.4
			1	0	1	22.0	21.9	21.8	1	22.3	22.3	22.3	1	22.0	21.9	22.0	1	18.5	18.5	18.4
			1	12	1	21.9	21.9	21.9	1	22.3	22.4	22.4	1	22.0	22.0	21.9	1	18.5	18.4	18.4
			1	24	1	21.9	22.0	21.9	1	22.3	22.4	22.4	1	21.9	21.9	22.0	1	18.5	18.4	18.4
			12	0	2	20.9	21.0	21.0	2	21.4	21.3	21.4	2	21.0	21.0	21.0	2	17.4	17.4	17.4
			12	7	2	20.9	20.9	20.9	2	21.4	21.4	21.4	2	21.0	21.0	20.9	2	17.4	17.5	17.4
			12	13	2	20.9	21.0	20.9	2	21.3	21.4	21.3	2	20.9	20.9	21.0	2	17.5	17.4	17.5
			25	0	2	20.9	20.9	21.0	2	21.3	21.3	21.3	2	20.9	20.9	20.9	2	17.4	17.4	17.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						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	22.9	22.9	23.0	0	23.4	23.3	23.3	0	22.9	23.0	23.0	0	19.3	19.4	19.4
			1	8	0	23.0	22.9	22.9	0	23.4	23.3	23.3	0	22.9	22.9	23.0	0	19.4	19.4	19.4
			1	14	0	22.9	22.9	23.0	0	23.4	23.3	23.3	0	22.9	22.8	22.9	0	19.4	19.4	19.4
			8	0	1	21.9	21.9	21.9	1	22.3	22.3	22.3	1	21.8	22.0	21.9	1	18.5	18.4	18.5
			8	4	1	21.9	22.0	21.9	1	22.3	22.4	22.4	1	21.8	22.0	21.9	1	18.5	18.4	18.4
			8	7	1	21.9	21.9	22.0	1	22.4	22.4	22.4	1	21.9	22.0	22.0	1	18.4	18.4	18.3
		16QAM	15	0	1	21.9	21.8	22.0	1	22.4	22.2	22.3	1	22.0	21.9	21.9	1	18.4	18.4	18.4
			1	0	1	21.9	21.9	21.9	1	22.4	22.3	22.3	1	21.9	22.0	21.9	1	18.5	18.4	18.4
			1	8	1	21.9	21.9	22.0	1	22.3	22.4	22.3	1	21.9	22.0	21.9	1	18.4	18.5	18.4
			1	14	1	22.0	21.9	22.0	1	22.3	22.3	22.4	1	22.0	21.9	22.0	1	18.5	18.5	18.4
			8	0	2	20.9	20.9	20.9	2	21.2	21.3	21.3	2	21.0	21.0	21.0	2	17.5	17.4	17.5
			8	4	2	20.8	21.0	21.0	2	21.3	21.3	21.3	2	20.9	21.0	21.0	2	17.5	17.4	17.3
			8	7	2	20.9	20.9	20.9	2	21.3	21.4	21.3	2	20.9	21.0	20.9	2	17.4	17.4	17.5
			15	0	2	20.9	20.9	20.9	2	21.3	21.3	21.3	2	20.9	20.9	20.9	2	17.5	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		
						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	22.9	23.0	23.0	0	23.4	23.3	23.3	0	22.9	22.9	22.9	0	19.5	19.5	19.4
			1	3	0	22.8	22.9	22.9	0	23.3	23.3	23.3	0	22.9	22.9	22.8	0	19.5	19.5	19.4
			1	5	0	22.9	22.9	23.0	0	23.4	23.4	23.4	0	23.0	22.9	22.9	0	19.4	19.5	19.4
			3	0	0	22.8	23.0	22.8	0	23.3	23.3	23.3	0	22.9	23.0	22.9	0	19.4	19.4	19.5
			3	1	0	22.9	22.9	22.9	0	23.3	23.4	23.3	0	22.9	23.0	22.8	0	19.4	19.4	19.3
			3	3	0	23.0	22.9	22.9	0	23.3	23.3	23.4	0	22.9	22.8	23.0	0	19.4	19.5	19.5
		16QAM	6	0	1	21.9	21.9	21.9	1	22.3	22.3	22.4	1	21.8	21.9	22.0	1	18.3	18.4	18.4
			1	0	1	21.9	22.0	22.0	1	22.3	22.3	22.3	1	21.9	21.8	21.9	1	18.4	18.5	18.4
			1	3	1	22.0	21.9	22.0	1	22.3	22.4	22.3	1	21.9	22.0	21.9	1	18.5	18.4	18.4
			1	5	1	22.0	21.9	21.9	1	22.4	22.3	22.3	1	22.0	21.9	21.9	1	18.3	18.4	18.5
			3	0	1	22.0	21.9	21.9	1	22.4	22.3	22.2	1	21.9	21.9	21.8	1	18.4	18.4	18.4
			3	1	1	21.9	21.8	21.9	1	22.3	22.3	22.3	1	21.9	22.0	22.0	1	18.4	18.4	18.5
			3	3	1	21.9	22.0	21.8	1	22.4	22.3	22.3	1	21.9	22.0	21.9	1	18.4	18.4	18.4
			6	0	2	20.9	20.9	20.9	2	21.3	21.3	21.3	2	20.9	20.9	20.9	2	17.4	17.4	17.4

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	23.7	23.6	23.6	0	23.6	23.6	23.7	0	23.9	23.9	23.9	0	23.7	24.0	23.9
			1	24	0	23.7	23.7	23.7	0	23.7	23.7	23.7	0	24.0	24.0	24.0	0	23.7	24.0	23.9
			1	49	0	23.6	23.7	23.7	0	23.7	23.6	23.6	0	23.9	23.9	23.9	0	23.7	23.9	23.9
			25	0	1	22.7	22.7	22.7	1	22.6	22.5	22.7	1	22.9	22.8	23.0	1	22.9	22.9	23.0
			25	12	1	22.7	22.7	22.7	1	22.7	22.7	22.7	1	22.9	23.0	22.9	1	23.0	23.0	23.0
			25	24	1	22.7	22.7	22.6	1	22.6	22.5	22.7	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			50	0	1	22.6	22.6	22.7	1	22.6	22.7	22.6	1	23.0	22.9	22.9	1	22.9	23.0	23.0
		16QAM	1	0	1	22.7	22.6	22.6	1	22.5	22.6	22.7	1	23.0	23.0	22.9	1	22.9	22.9	23.0
			1	24	1	22.6	22.6	22.6	1	22.7	22.6	22.7	1	22.9	23.0	23.0	1	23.0	22.9	22.9
			1	49	1	22.5	22.6	22.6	1	22.6	22.7	22.7	1	22.9	23.0	23.0	1	22.9	22.9	22.9
			25	0	2	21.6	21.6	21.7	2	21.7	21.6	21.7	2	22.0	21.9	21.8	2	21.9	22.0	21.9
			25	12	2	21.6	21.6	21.6	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	22.0	21.9	22.0
			25	24	2	21.7	21.7	21.6	2	21.6	21.5	21.6	2	21.9	22.0	22.0	2	21.9	21.9	21.9
			50	0	2	21.5	21.7	21.7	2	21.6	21.6	21.6	2	21.9	22.0	21.9	2	22.0	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		
						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	23.6	23.6	23.5	0	23.7	23.6	23.6	0	23.9	23.9	23.9	0	24.0	23.9	23.9
			1	12	0	23.7	23.6	23.6	0	23.7	23.7	23.6	0	23.9	23.9	24.0	0	24.0	23.9	23.9
			1	24	0	23.7	23.6	23.6	0	23.7	23.7	23.6	0	23.9	23.9	23.9	0	23.8	23.9	23.9
			12	0	1	22.7	22.6	22.6	1	22.7	22.7	22.7	1	23.0	22.9	22.9	1	23.0	22.9	23.0
			12	7	1	22.6	22.6	22.6	1	22.7	22.7	22.7	1	22.9	22.8	23.0	1	22.9	22.9	22.9
			12	13	1	22.7	22.7	22.6	1	22.6	22.6	22.6	1	22.9	22.9	22.9	1	22.9	23.0	22.9
			25	0	1	22.6	22.6	22.6	1	22.6	22.6	22.7	1	22.9	22.9	23.0	1	22.9	23.0	22.9
		16QAM	1	0	1	22.6	22.6	22.6	1	22.7	22.5	22.7	1	23.0	22.9	23.0	1	22.9	22.9	23.0
			1	12	1	22.7	22.6	22.7	1	22.7	22.5	22.7	1	23.0	22.9	23.0	1	23.0	22.9	22.9
			1	24	1	22.7	22.6	22.7	1	22.6	22.7	22.5	1	22.9	22.9	22.8	1	22.9	23.0	22.9
			12	0	2	21.7	21.6	21.5	2	21.6	21.6	21.7	2	21.9	22.0	22.0	2	21.9	22.0	21.8
			12	7	2	21.6	21.7	21.6	2	21.6	21.7	21.6	2	21.9	22.0	21.9	2	21.9	21.9	21.9
			12	13	2	21.6	21.6	21.6	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	22.0	21.9	22.0
			25	0	2	21.7	21.6	21.5	2	21.6	21.6	21.6	2	22.0	21.9	21.9	2	22.0	22.0	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		
						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	23.6	23.7	23.7	0	23.6	23.7	23.6	0	24.0	23.9	23.9	0	24.0	24.0	23.9
			1	8	0	23.6	23.7	23.6	0	23.7	23.6	23.6	0	23.9	23.8	23.9	0	23.9	23.9	24.0
			1	14	0	23.6	23.6	23.6	0	23.7	23.6	23.6	0	23.9	24.0	23.9	0	23.9	23.9	23.9
			8	0	1	22.6	22.6	22.6	1	22.6	22.7	22.6	1	22.9	22.9	23.0	1	23.0	22.9	23.0
			8	4	1	22.6	22.6	22.5	1	22.6	22.7	22.6	1	22.9	23.0	23.0	1	22.9	22.9	22.9
			8	7	1	22.6	22.7	22.7	1	22.6	22.7	22.6	1	22.9	22.9	22.9	1	22.9	23.0	22.9
		16QAM	15	0	1	22.6	22.7	22.7	1	22.6	22.5	22.5	1	23.0	22.9	22.9	1	22.9	23.0	22.9
			1	0	1	22.6	22.7	22.6	1	22.6	22.6	22.7	1	22.9	23.0	22.9	1	23.0	22.9	23.0
			1	8	1	22.6	22.5	22.6	1	22.6	22.6	22.6	1	22.9	23.0	22.9	1	22.9	22.9	22.9
			1	14	1	22.7	22.6	22.6	1	22.6	22.6	22.6	1	22.9	22.9	22.9	1	23.0	22.9	23.0
			8	0	2	21.6	21.7	21.7	2	21.6	21.7	21.5	2	21.9	21.8	21.9	2	21.9	21.9	22.0
			8	4	2	21.5	21.6	21.6	2	21.7	21.6	21.7	2	21.9	21.9	21.9	2	21.9	21.9	21.9
			8	7	2	21.6	21.6	21.6	2	21.7	21.7	21.6	2	21.9	22.0	21.8	2	22.0	21.9	21.9
			15	0	2	21.7	21.6	21.7	2	21.7	21.6	21.6	2	21.9	21.8	21.9	2	21.9	21.9	21.9

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	23.6	23.6	23.7	0	23.6	23.6	23.5	0	23.9	24.0	23.8	0	24.0	23.9	24.0
			1	2	0	23.6	23.6	23.7	0	23.7	23.7	23.6	0	24.0	24.0	23.9	0	23.9	23.9	23.9
			1	5	0	23.5	23.7	23.5	0	23.6	23.6	23.6	0	23.9	23.9	23.9	0	23.9	23.9	24.0
			3	0	0	23.6	23.6	23.7	0	23.6	23.6	23.7	0	23.9	23.9	23.9	0	23.9	23.9	24.0
			3	1	0	23.6	23.7	23.6	0	23.5	23.6	23.6	0	23.9	23.9	24.0	0	24.0	24.0	23.9
			3	2	0	23.7	23.7	23.5	0	23.6	23.7	23.6	0	24.0	24.0	23.9	0	23.9	23.9	24.0
		16QAM	6	0	1	22.6	22.6	22.6	1	22.7	22.7	22.7	1	22.9	22.9	22.9	1	22.9	22.9	22.9
			1	0	1	22.6	22.6	22.7	1	22.7	22.5	22.6	1	23.0	22.9	22.9	1	22.9	22.9	22.9
			1	2	1	22.6	22.6	22.6	1	22.7	22.7	22.6	1	23.0	22.9	22.8	1	22.9	22.9	23.0
			1	5	1	22.6	22.7	22.7	1	22.7	22.6	22.6	1	22.9	22.9	23.0	1	22.9	22.9	23.0
			3	0	1	22.6	22.6	22.6	1	22.6	22.6	22.6	1	22.9	22.9	22.9	1	23.0	23.0	22.9
			3	1	1	22.6	22.6	22.7	1	22.6	22.5	22.7	1	22.9	23.0	22.9	1	22.9	22.9	23.0
			3	2	1	22.5	22.6	22.7	1	22.6	22.6	22.6	1	22.9	22.9	23.0	1	22.9	22.9	22.9
			6	0	2	21.6	21.6	21.6	2	21.6	21.6	21.7	2	21.9	21.9	21.9	2	22.0	22.0	21.9

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	18.6	18.6	18.6	0	18.9	18.9	18.9	0	22.5	22.4	22.4	0	18.5	18.6	18.7
			1	49	0	18.7	18.7	18.7	0	19.0	19.0	18.8	0	22.5	22.5	22.5	0	18.7	18.7	18.7
			1	99	0	18.7	18.7	18.7	0	18.9	18.9	18.9	0	22.5	22.4	22.4	0	18.6	18.6	18.6
			50	0	1	17.6	17.6	17.6	1	17.9	17.9	17.9	1	21.4	21.4	21.5	1	17.6	17.7	17.6
			50	24	1	17.7	17.7	17.7	1	18.0	18.0	17.9	1	21.4	21.5	21.5	1	17.7	17.7	17.7
			50	49	1	17.7	17.6	17.6	1	18.0	18.0	18.0	1	21.4	21.4	21.4	1	17.7	17.7	17.6
			100	0	1	17.6	17.7	17.7	1	17.9	17.8	17.9	1	21.4	21.5	21.4	1	17.7	17.7	17.7
		16QAM	1	0	1	17.7	17.6	17.7	1	18.0	18.0	18.0	1	21.4	21.4	21.5	1	17.7	17.5	17.6
			1	49	1	17.6	17.6	17.6	1	17.9	18.0	17.9	1	21.5	21.4	21.4	1	17.7	17.6	17.6
			1	99	1	17.6	17.7	17.7	1	17.9	17.9	17.8	1	21.4	21.3	21.4	1	17.7	17.5	17.6
			50	0	2	16.6	16.6	16.7	2	16.9	16.9	16.9	2	20.4	20.5	20.4	2	16.6	16.6	16.7
			50	24	2	16.6	16.7	16.6	2	16.9	16.9	16.9	2	20.5	20.5	20.4	2	16.7	16.6	16.7
			50	49	2	16.7	16.6	16.7	2	16.8	17.0	17.0	2	20.5	20.4	20.4	2	16.6	16.6	16.6
			100	0	2	16.6	16.5	16.7	2	16.9	17.0	16.9	2	20.4	20.4	20.4	2	16.6	16.7	16.6
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	18.6	18.6	18.6	0	18.9	18.9	18.9	0	22.3	22.4	22.4	0	18.6	18.5	18.6
			1	36	0	18.6	18.6	18.7	0	19.0	19.0	18.9	0	22.4	22.4	22.4	0	18.6	18.6	18.7
			1	74	0	18.6	18.6	18.7	0	18.9	19.0	18.9	0	22.4	22.5	22.4	0	18.6	18.7	18.6
			36	0	1	17.6	17.7	17.7	1	18.0	18.0	18.0	1	21.4	21.4	21.5	1	17.7	17.7	17.7
			36	18	1	17.7	17.6	17.7	1	17.9	18.0	17.9	1	21.4	21.4	21.4	1	17.7	17.6	17.7
			36	37	1	17.7	17.6	17.5	1	18.0	17.8	17.9	1	21.5	21.5	21.4	1	17.7	17.6	17.6
			75	0	1	17.7	17.6	17.7	1	17.9	17.9	17.9	1	21.3	21.4	21.4	1	17.6	17.7	17.5
		16QAM	1	0	1	17.6	17.7	17.6	1	17.9	17.9	17.9	1	21.4	21.5	21.5	1	17.5	17.6	17.5
			1	36	1	17.5	17.6	17.6	1	18.0	17.9	17.9	1	21.5	21.4	21.3	1	17.6	17.6	17.6
			1	74	1	17.6	17.6	17.6	1	17.9	17.9	18.0	1	21.4	21.5	21.4	1	17.6	17.6	17.6
			36	0	2	16.6	16.6	16.6	2	16.9	16.9	16.9	2	20.5	20.4	20.5	2	16.7	16.7	16.6
			36	18	2	16.6	16.6	16.5	2	16.9	17.0	16.9	2	20.4	20.5	20.4	2	16.6	16.7	16.5
			36	37	2	16.6	16.6	16.6	2	17.0	16.9	16.9	2	20.4	20.4	20.5	2	16.6	16.7	16.6
			75	0	2	16.7	16.6	16.7	2	17.0	16.9	17.0	2	20.4	20.5	20.4	2	16.6	16.6	16.7
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	18.6	18.6	18.6	0	19.0	19.0	18.9	0	22.4	22.4	22.4	0	18.6	18.6	18.6
			1	24	0	18.7	18.7	18.7	0	19.0	19.0	18.8	0	22.4	22.5	22.4	0	18.6	18.6	18.6
			1	49	0	18.6	18.6	18.6	0	19.0	18.9	19.0	0	22.5	22.4	22.4	0	18.6	18.6	18.6
			25	0	1	17.7	17.7	17.6	1	17.9	17.9	17.9	1	21.4	21.3	21.4	1	17.7	17.6	17.6
			25	12	1	17.6	17.7	17.6	1	17.9	17.9	18.0	1	21.5	21.4	21.4	1	17.6	17.6	17.6
			25	24	1	17.7	17.6	17.6	1	18.0	17.9	17.9	1	21.4	21.4	21.4	1	17.6	17.7	17.6
		16QAM	50	0	1	17.6	17.6	17.7	1	17.9	17.9	17.9	1	21.4	21.5	21.4	1	17.5	17.5	17.6
			1	0	1	17.7	17.7	17.6	1	18.0	17.9	17.9	1	21.4	21.5	21.5	1	17.6	17.7	17.6
			1	24	1	17.6	17.6	17.6	1	18.0	17.9	18.0	1	21.5	21.4	21.4	1	17.5	17.6	17.6
			1	49	1	17.6	17.6	17.7	1	17.9	17.9	17.9	1	21.4	21.4	21.4	1	17.6	17.6	17.7
			25	0	2	16.7	16.7	16.6	2	16.9	17.0	16.9	2	20.5	20.4	20.3	2	16.7	16.7	16.6
			25	12	2	16.6	16.7	16.6	2	17.0	16.9	17.0	2	20.4	20.4	20.4	2	16.6	16.6	16.6
			25	24	2	16.6	16.6	16.7	2	17.0	17.0	16.9	2	20.4	20.3	20.4	2	16.6	16.7	16.6
			50	0	2	16.6	16.6	16.6	2	17.0	16.9	16.9	2	20.5	20.5	20.4	2	16.6	16.7	16.6

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	18.6	18.7	18.6	0	18.9	19.0	18.9	0	22.5	22.5	22.5	0	18.6	18.6	18.6
			1	12	0	18.6	18.6	18.7	0	18.9	18.9	19.0	0	22.5	22.4	22.4	0	18.6	18.7	18.6
			1	24	0	18.6	18.7	18.7	0	18.9	18.9	18.9	0	22.4	22.4	22.5	0	18.7	18.5	18.7
			12	0	1	17.6	17.6	17.6	1	17.9	17.9	17.9	1	21.3	21.4	21.5	1	17.6	17.6	17.7
			12	7	1	17.6	17.6	17.6	1	18.0	17.9	17.9	1	21.5	21.4	21.4	1	17.5	17.6	17.7
			12	13	1	17.6	17.6	17.7	1	17.9	18.0	17.9	1	21.5	21.4	21.5	1	17.6	17.6	17.6
			25	0	1	17.6	17.6	17.6	1	17.9	17.9	17.9	1	21.4	21.4	21.4	1	17.7	17.7	17.6
		16QAM	1	0	1	17.6	17.5	17.7	1	17.9	17.9	18.0	1	21.4	21.4	21.5	1	17.6	17.6	17.6
			1	12	1	17.6	17.5	17.7	1	17.9	18.0	18.0	1	21.5	21.4	21.4	1	17.6	17.6	17.7
			1	24	1	17.6	17.5	17.7	1	17.9	17.9	17.9	1	21.4	21.5	21.5	1	17.7	17.6	17.7
			12	0	2	16.6	16.6	16.7	2	17.0	16.9	16.9	2	20.4	20.5	20.4	2	16.6	16.7	16.7
			12	7	2	16.7	16.7	16.7	2	17.0	17.0	17.0	2	20.5	20.5	20.4	2	16.7	16.6	16.6
			12	13	2	16.6	16.5	16.6	2	16.9	17.0	17.0	2	20.4	20.4	20.4	2	16.6	16.6	16.5
			25	0	2	16.6	16.6	16.6	2	17.0	16.9	17.0	2	20.4	20.4	20.5	2	16.6	16.7	16.6

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	23.6	23.7	23.6	0	23.6	23.6	23.7	0	23.9	23.9	24.0	0	24.0	23.9	24.0
			1	24	0	23.6	23.7	23.6	0	23.6	23.7	23.6	0	24.0	24.0	23.9	0	23.9	24.0	24.0
			1	49	0	23.7	23.7	23.6	0	23.6	23.6	23.6	0	24.0	23.9	24.0	0	24.0	23.9	24.0
			25	0	1	22.6	22.7	22.6	1	22.7	22.7	22.7	1	22.9	23.0	23.0	1	22.9	22.9	23.0
			25	12	1	22.6	22.7	22.6	1	22.6	22.7	22.6	1	23.0	23.0	22.9	1	22.9	23.0	23.0
			25	24	1	22.7	22.6	22.5	1	22.6	22.7	22.7	1	23.0	22.9	22.9	1	22.9	23.0	22.9
			50	0	1	22.7	22.7	22.7	1	22.7	22.7	22.6	1	22.9	23.0	22.9	1	22.9	23.0	23.0
		16QAM	1	0	1	22.7	22.7	22.6	1	22.7	22.6	22.6	1	22.9	22.9	22.9	1	23.0	23.0	23.0
			1	24	1	22.5	22.6	22.6	1	22.7	22.6	22.6	1	22.9	22.9	23.0	1	22.9	23.0	22.9
			1	49	1	22.6	22.6	22.6	1	22.7	22.6	22.6	1	23.0	23.0	22.9	1	23.0	22.9	22.9
			25	0	2	21.5	21.7	21.7	2	21.6	21.6	21.6	2	21.9	21.9	22.0	2	22.0	21.8	21.9
			25	12	2	21.6	21.6	21.7	2	21.6	21.5	21.7	2	21.9	21.9	22.0	2	21.9	21.9	21.9
			25	24	2	21.6	21.5	21.7	2	21.6	21.6	21.7	2	21.9	21.9	21.9	2	22.0	22.0	22.0
			50	0	2	21.6	21.6	21.7	2	21.6	21.6	21.7	2	22.0	21.9	21.9	2	21.9	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		
						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	23.6	23.6	23.6	0	23.6	23.6	23.6	0	23.9	23.9	23.8	0	23.9	24.0	24.0
			1	12	0	23.7	23.6	23.7	0	23.7	23.6	23.7	0	23.9	24.0	23.9	0	23.9	23.9	24.0
			1	24	0	23.7	23.6	23.5	0	23.6	23.7	23.5	0	24.0	24.0	23.9	0	23.9	23.9	23.9
			12	0	1	22.7	22.7	22.7	1	22.6	22.6	22.6	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			12	7	1	22.6	22.6	22.6	1	22.7	22.6	22.6	1	23.0	23.0	22.9	1	23.0	22.9	22.9
			12	13	1	22.6	22.6	22.6	1	22.6	22.6	22.6	1	22.9	23.0	22.9	1	23.0	22.8	23.0
			25	0	1	22.6	22.6	22.7	1	22.7	22.7	22.7	1	23.0	23.0	22.9	1	22.9	22.8	22.9
		16QAM	1	0	1	22.5	22.7	22.5	1	22.5	22.7	22.6	1	23.0	22.8	23.0	1	22.9	23.0	22.9
			1	12	1	22.7	22.6	22.6	1	22.7	22.6	22.7	1	22.9	23.0	22.9	1	22.9	22.9	22.9
			1	24	1	22.7	22.5	22.6	1	22.7	22.7	22.7	1	22.9	23.0	22.9	1	23.0	23.0	22.9
			12	0	2	21.6	21.6	21.6	2	21.6	21.7	21.6	2	21.9	21.9	22.0	2	21.9	21.9	21.9
			12	7	2	21.6	21.6	21.7	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	22.0	21.8	22.0
			12	13	2	21.6	21.7	21.7	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	21.9	21.9	21.9
			25	0	2	21.6	21.6	21.6	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	22.0	22.0	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		
						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	23.6	23.7	23.6	0	23.7	23.6	23.7	0	24.0	24.0	23.9	0	23.9	23.9	24.0
			1	8	0	23.6	23.6	23.7	0	23.7	23.7	23.5	0	23.9	23.9	23.9	0	24.0	24.0	23.9
			1	14	0	23.6	23.6	23.5	0	23.6	23.5	23.7	0	24.0	23.9	24.0	0	24.0	23.9	23.8
			8	0	1	22.6	22.6	22.7	1	22.7	22.6	22.6	1	22.9	22.9	22.9	1	22.9	22.8	22.9
			8	4	1	22.6	22.7	22.6	1	22.6	22.6	22.6	1	23.0	23.0	22.9	1	22.9	22.9	22.9
			8	7	1	22.6	22.5	22.6	1	22.7	22.6	22.6	1	23.0	23.0	22.9	1	23.0	22.9	23.0
			15	0	1	22.6	22.6	22.7	1	22.7	22.6	22.6	1	22.9	22.9	22.9	1	22.8	22.9	22.9
		16QAM	1	0	1	22.7	22.6	22.7	1	22.6	22.6	22.6	1	22.9	23.0	23.0	1	22.9	22.9	22.9
			1	8	1	22.6	22.7	22.7	1	22.6	22.6	22.6	1	22.9	22.9	22.8	1	22.9	22.9	22.9
			1	14	1	22.6	22.6	22.6	1	22.6	22.6	22.7	1	22.9	22.9	22.9	1	22.8	22.9	23.0
			8	0	2	21.7	21.6	21.7	2	21.7	21.6	21.6	2	21.9	21.9	21.9	2	22.0	21.9	21.9
			8	4	2	21.7	21.6	21.6	2	21.6	21.7	21.6	2	21.9	21.9	21.9	2	22.0	21.9	21.9
			8	7	2	21.6	21.6	21.6	2	21.7	21.7	21.7	2	21.9	21.8	21.9	2	22.0	21.9	22.0
			15	0	2	21.6	21.6	21.7	2	21.7	21.6	21.7	2	21.9	22.0	21.9	2	21.9	21.8	21.9

LTE Band 12 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		
						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	23.7	23.6	23.7	0	23.6	23.7	23.7	0	23.9	23.9	24.0	0	23.9	23.9	23.9
			1	2	0	23.7	23.7	23.7	0	23.6	23.6	23.6	0	24.0	23.9	24.0	0	23.9	23.8	23.9
			1	5	0	23.6	23.6	23.6	0	23.6	23.6	23.7	0	23.9	23.9	24.0	0	24.0	24.0	23.8
			3	0	0	23.6	23.6	23.6	0	23.7	23.7	23.6	0	23.9	24.0	23.9	0	23.9	23.9	23.9
			3	1	0	23.7	23.5	23.6	0	23.6	23.6	23.6	0	23.8	23.9	24.0	0	23.9	24.0	23.9
			3	2	0	23.7	23.6	23.6	0	23.6	23.7	23.6	0	23.9	23.9	23.9	0	24.0	23.9	23.9
		16QAM	6	0	1	22.7	22.6	22.6	1	22.6	22.6	22.6	1	22.9	22.8	22.9	1	22.9	22.9	23.0
			1	0	1	22.7	22.7	22.6	1	22.6	22.6	22.5	1	22.9	22.9	22.9	1	23.0	22.9	23.0
			1	2	1	22.6	22.6	22.7	1	22.6	22.6	22.6	1	22.9	23.0	22.9	1	22.9	22.9	22.9
			1	5	1	22.7	22.7	22.7	1	22.6	22.5	22.6	1	23.0	22.9	22.9	1	23.0	22.9	22.9
			3	0	1	22.6	22.7	22.7	1	22.6	22.6	22.6	1	23.0	22.8	22.9	1	22.9	22.9	22.9
			3	1	1	22.6	22.7	22.6	1	22.5	22.6	22.6	1	22.9	22.8	22.9	1	23.0	22.9	22.9
			3	2	1	22.7	22.7	22.7	1	22.7	22.6	22.6	1	22.9	22.9	22.8	1	22.9	23.0	22.8
			6	0	2	21.7	21.7	21.6	2	21.6	21.6	21.7	2	22.0	21.9	22.0	2	21.9	21.9	21.9

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		
							710 MHz				710 MHz				710 MHz				710 MHz	
LTE Band 17	10	QPSK	1	0	0		23.6		0		23.6		0		23.9		0		23.9	
			1	24	0		23.7		0		23.7		0		24.0		0		24.0	
			1	49	0		23.6		0		23.6		0		23.9		0		23.9	
			25	0	1		22.6		1		22.7		1		22.9		1		23.0	
			25	12	1		22.7		1		22.7		1		23.0		1		23.0	
			25	24	1		22.6		1		22.6		1		22.9		1		22.9	
			50	0	1		22.7		1		22.6		1		22.9		1		22.9	
		16QAM	1	0	1		22.6		1		22.6		1		23.0		1		22.9	
			1	24	1		22.6		1		22.6		1		22.9		1		22.9	
			1	49	1		22.6		1		22.6		1		23.0		1		22.9	
			25	0	2		21.6		2		21.6		2		21.9		2		21.9	
			25	12	2		21.6		2		21.6		2		21.9		2		22.0	
			25	24	2		21.6		2		21.6		2		21.9		2		21.9	
			50	0	2		21.6		2		21.6		2		22.0		2		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		
						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	23.5	23.6	23.6	0	23.6	23.6	23.7	0	24.0	23.9	23.9	0	23.9	23.9	23.9
			1	12	0	23.7	23.6	23.5	0	23.6	23.6	23.7	0	23.8	23.9	23.9	0	23.9	23.9	23.9
			1	24	0	23.6	23.7	23.6	0	23.6	23.7	23.6	0	23.9	23.9	23.9	0	23.9	23.9	23.9
			12	0	1	22.7	22.6	22.6	1	22.6	22.7	22.6	1	22.9	22.9	22.9	1	23.0	22.9	22.9
			12	7	1	22.7	22.7	22.7	1	22.6	22.7	22.6	1	22.9	22.9	23.0	1	22.9	22.9	22.9
			12	13	1	22.7	22.5	22.6	1	22.6	22.7	22.6	1	23.0	22.9	22.9	1	22.9	23.0	22.8
			25	0	1	22.6	22.6	22.7	1	22.5	22.5	22.6	1	23.0	23.0	22.9	1	23.0	23.0	23.0
		16QAM	1	0	1	22.6	22.6	22.6	1	22.7	22.7	22.6	1	23.0	23.0	22.9	1	22.9	22.9	23.0
			1	12	1	22.6	22.6	22.6	1	22.6	22.7	22.6	1	22.9	23.0	22.9	1	23.0	23.0	22.9
			1	24	1	22.7	22.7	22.7	1	22.6	22.6	22.7	1	22.9	22.9	22.9	1	22.9	23.0	22.9
			12	0	2	21.6	21.7	21.5	2	21.6	21.6	21.6	2	22.0	22.0	21.8	2	21.9	21.9	21.9
			12	7	2	21.7	21.6	21.6	2	21.5	21.6	21.6	2	21.9	21.9	21.9	2	21.9	21.9	21.9
			12	13	2	21.6	21.7	21.6	2	21.7	21.6	21.6	2	21.9	22.0	21.9	2	21.9	21.9	22.0
			25	0	2	21.6	21.6	21.7	2	21.6	21.6	21.6	2	21.9	22.0	21.9	2	22.0	22.0	21.9

Note(s):

10 MHz Bandwidth 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	21.1	21.1	21.1	0	21.9	22.0	21.9	0	21.9	21.9	21.9	0	18.7	18.6	18.6
			1	49	0	21.1	21.1	21.1	0	22.0	22.0	22.0	0	22.0	22.0	22.0	0	18.7	18.7	18.7
			1	99	0	21.0	21.1	21.0	0	22.0	22.0	21.9	0	22.0	21.9	21.9	0	18.6	18.7	18.7
			50	0	1	20.1	20.1	20.1	1	20.9	20.9	20.9	1	21.0	21.0	21.0	1	17.7	17.6	17.7
			50	24	1	20.0	20.1	20.0	1	20.8	21.0	20.9	1	21.0	21.0	21.0	1	17.7	17.7	17.7
			50	49	1	20.0	20.1	20.0	1	21.0	20.9	21.0	1	20.9	20.9	20.9	1	17.7	17.7	17.5
			100	0	1	20.1	20.0	20.0	1	21.0	21.0	21.0	1	20.9	21.0	20.8	1	17.7	17.7	17.7
		16QAM	1	0	1	20.0	20.1	20.1	1	20.9	21.0	21.0	1	20.9	20.9	21.0	1	17.6	17.7	17.7
			1	49	1	20.0	20.1	20.1	1	21.0	20.9	20.9	1	20.9	20.9	21.0	1	17.6	17.6	17.6
			1	99	1	20.0	20.1	20.0	1	21.0	20.9	20.9	1	21.0	20.9	20.9	1	17.6	17.6	17.6
			50	0	2	19.0	19.0	19.0	2	19.9	19.9	19.9	2	20.0	20.0	19.8	2	16.6	16.6	16.6
			50	24	2	19.0	19.0	19.0	2	20.0	19.9	19.9	2	19.9	19.9	20.0	2	16.7	16.7	16.6
			50	49	2	19.0	19.1	19.1	2	20.0	19.9	19.8	2	19.9	19.9	20.0	2	16.6	16.6	16.6
			100	0	2	19.0	19.0	19.0	2	19.9	19.9	20.0	2	20.0	19.9	19.9	2	16.6	16.7	16.6
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	21.1	21.0	21.1	0	21.8	21.9	22.0	0	22.0	21.9	22.0	0	18.6	18.7	18.5
			1	36	0	21.1	21.0	21.1	0	21.9	21.8	21.9	0	21.9	21.9	21.9	0	18.6	18.7	18.6
			1	74	0	21.0	21.0	21.0	0	21.9	22.0	21.9	0	21.8	21.9	21.9	0	18.6	18.6	18.6
			36	0	1	19.9	20.1	20.1	1	20.8	20.8	20.9	1	20.9	21.0	21.0	1	17.7	17.7	17.6
			36	18	1	20.0	20.0	20.0	1	21.0	20.9	20.9	1	20.9	20.9	20.9	1	17.6	17.6	17.6
			36	37	1	20.0	20.0	20.0	1	21.0	20.8	20.9	1	20.9	20.9	21.0	1	17.7	17.6	17.7
			75	0	1	19.9	20.0	20.1	1	20.9	20.9	20.9	1	20.9	21.0	20.9	1	17.6	17.6	17.6
		16QAM	1	0	1	20.1	20.1	20.0	1	20.9	20.8	21.0	1	20.9	20.9	20.8	1	17.6	17.6	17.6
			1	36	1	20.1	20.0	20.1	1	20.9	21.0	21.0	1	21.0	20.9	20.9	1	17.6	17.6	17.6
			1	74	1	20.0	20.1	20.1	1	21.0	20.9	20.9	1	21.0	21.0	21.0	1	17.7	17.6	17.6
			36	0	2	19.0	19.0	19.1	2	19.9	20.0	20.0	2	20.0	19.9	19.9	2	16.6	16.7	16.6
			36	18	2	19.1	19.0	19.0	2	19.9	19.9	19.9	2	19.8	19.9	19.9	2	16.6	16.7	16.7
			36	37	2	19.0	19.0	18.9	2	19.9	20.0	19.9	2	20.0	19.9	20.0	2	16.6	16.6	16.6
			75	0	2	19.1	19.0	19.0	2	19.9	20.0	19.9	2	19.9	19.9	19.8	2	16.7	16.6	16.7
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	21.1	21.0	21.1	0	22.0	21.9	21.9	0	21.9	22.0	22.0	0	18.7	18.7	18.5
			1	24	0	21.0	21.0	21.1	0	21.9	22.0	21.9	0	22.0	21.9	21.9	0	18.6	18.6	18.7
			1	49	0	21.1	21.0	21.0	0	21.9	21.8	22.0	0	21.8	22.0	21.9	0	18.6	18.7	18.6
			25	0	1	20.0	20.1	20.1	1	21.0	21.0	21.0	1	20.9	20.9	20.9	1	17.7	17.6	17.6
			25	12	1	20.1	20.0	20.0	1	20.9	20.9	20.8	1	20.9	20.9	21.0	1	17.6	17.7	17.7
			25	24	1	20.0	20.1	20.0	1	20.9	21.0	20.9	1	21.0	20.9	20.9	1	17.6	17.6	17.6
			50	0	1	20.0	20.0	19.9	1	20.9	21.0	20.9	1	20.9	20.9	21.0	1	17.6	17.7	17.7
		16QAM	1	0	1	20.1	20.0	20.0	1	20.9	21.0	21.0	1	20.9	21.0	20.9	1	17.6	17.7	17.6
			1	24	1	20.0	20.0	20.0	1	21.0	20.9	21.0	1	21.0	20.9	21.0	1	17.5	17.6	17.6
			1	49	1	20.0	20.0	20.1	1	21.0	20.9	20.9	1	20.9	20.9	20.9	1	17.7	17.6	17.6
			25	0	2	19.1	19.0	19.0	2	19.9	19.9	19.9	2	19.9	20.0	20.0	2	16.7	16.7	16.6
			25	12	2	19.1	19.1	19.0	2	19.8	19.9	19.9	2	20.0	19.9	19.9	2	16.6	16.7	16.7
			25	24	2	19.0	19.0	19.0	2	20.0	19.9	19.9	2	19.9	19.9	19.9	2	16.7	16.6	16.6
			50	0	2	19.0	19.1	19.0	2	19.9	19.9	19.9	2	19.9	19.9	19.9	2	16.6	16.6	16.7

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	21.1	21.1	21.0	0	21.9	21.9	21.9	0	21.9	22.0	22.0	0	18.6	18.6	18.6
			1	12	0	21.1	21.1	21.1	0	22.0	21.9	21.8	0	21.9	22.0	21.9	0	18.5	18.6	18.7
			1	24	0	20.9	21.0	21.1	0	21.9	21.9	21.9	0	21.9	22.0	21.9	0	18.6	18.6	18.6
			12	0	1	20.0	20.0	20.0	1	20.9	21.0	20.9	1	20.9	20.9	20.9	1	17.7	17.6	17.6
			12	7	1	20.0	20.0	20.0	1	20.9	21.0	20.9	1	21.0	21.0	20.9	1	17.7	17.6	17.7
			12	13	1	20.0	20.0	20.0	1	21.0	20.9	21.0	1	21.0	21.0	20.9	1	17.6	17.6	17.6
			25	0	1	20.0	20.0	20.1	1	20.9	21.0	20.9	1	20.9	20.9	21.0	1	17.7	17.5	17.6
		16QAM	1	0	1	20.0	20.1	20.0	1	20.9	20.9	20.8	1	20.9	21.0	20.9	1	17.6	17.5	17.7
			1	12	1	20.1	20.0	20.0	1	20.9	21.0	21.0	1	21.0	21.0	20.9	1	17.7	17.6	17.7
			1	24	1	20.0	20.0	20.1	1	20.8	20.8	20.9	1	20.9	21.0	21.0	1	17.6	17.5	17.6
			12	0	2	19.0	19.0	19.0	2	19.9	19.9	19.9	2	20.0	20.0	19.9	2	16.5	16.6	16.7
			12	7	2	19.0	19.0	19.0	2	19.9	20.0	19.9	2	19.9	19.9	19.9	2	16.7	16.7	16.6
			12	13	2	19.1	19.0	19.0	2	19.9	19.9	20.0	2	19.9	19.9	19.9	2	16.7	16.7	16.6
			25	0	2	19.0	19.0	19.0	2	19.8	20.0	19.9	2	20.0	20.0	19.9	2	16.6	16.7	16.6
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	21.1	20.9	21.0	0	21.9	21.9	21.9	0	21.9	21.9	21.9	0	18.7	18.6	18.7
			1	8	0	20.9	20.9	21.1	0	22.0	21.9	22.0	0	22.0	22.0	21.9	0	18.7	18.5	18.6
			1	14	0	21.0	21.0	21.0	0	21.9	21.9	21.9	0	21.9	21.9	22.0	0	18.6	18.7	18.6
			8	0	1	20.0	20.1	20.0	1	20.9	20.9	21.0	1	20.9	21.0	21.0	1	17.6	17.6	17.6
			8	4	1	20.1	20.0	20.0	1	20.9	20.9	21.0	1	20.9	21.0	20.8	1	17.6	17.6	17.6
			8	7	1	20.1	20.1	20.1	1	20.9	20.8	20.9	1	20.9	20.9	20.9	1	17.7	17.7	17.6
			15	0	1	20.0	20.0	19.9	1	20.9	20.9	20.9	1	20.9	20.9	21.0	1	17.6	17.6	17.6
		16QAM	1	0	1	20.1	20.0	20.0	1	20.9	20.9	20.9	1	20.9	21.0	20.9	1	17.5	17.7	17.7
			1	8	1	20.0	20.1	20.1	1	21.0	20.9	20.9	1	20.9	20.9	20.9	1	17.6	17.7	17.6
			1	14	1	20.0	19.9	19.9	1	21.0	20.9	20.9	1	20.9	20.9	20.9	1	17.7	17.6	17.6
			8	0	2	19.0	19.0	19.0	2	20.0	19.9	19.8	2	19.9	19.9	20.0	2	16.6	16.7	16.6
			8	4	2	19.0	18.9	19.0	2	20.0	19.9	19.9	2	19.9	19.9	19.9	2	16.6	16.6	16.6
			8	7	2	18.9	19.1	19.0	2	20.0	20.0	19.9	2	19.9	19.9	19.9	2	16.7	16.7	16.6
			15	0	2	19.0	19.0	19.1	2	19.8	20.0	20.0	2	19.9	20.0	20.0	2	16.7	16.6	16.6
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	21.0	21.1	21.1	0	21.9	21.9	22.0	0	21.9	22.0	21.9	0	18.7	18.6	18.6
			1	3	0	21.0	21.1	21.0	0	21.9	22.0	22.0	0	22.0	22.0	22.0	0	18.6	18.7	18.6
			1	5	0	21.0	21.1	21.0	0	21.9	21.9	21.9	0	21.8	21.9	22.0	0	18.6	18.6	18.6
			3	0	0	21.0	21.0	21.1	0	22.0	21.9	21.9	0	22.0	22.0	21.9	0	18.6	18.6	18.6
			3	1	0	21.0	21.0	21.0	0	22.0	21.9	21.9	0	21.8	22.0	21.9	0	18.7	18.6	18.6
			3	3	0	21.0	21.0	21.1	0	22.0	22.0	21.9	0	22.0	21.9	21.9	0	18.6	18.6	18.6
			6	0	1	20.1	20.0	20.0	1	20.9	20.9	21.0	1	20.9	20.9	21.0	1	17.6	17.6	17.6
		16QAM	1	0	1	20.0	20.0	20.0	1	20.9	20.9	20.9	1	20.9	20.9	20.8	1	17.6	17.6	17.6
			1	3	1	20.0	19.9	20.1	1	20.9	20.9	21.0	1	20.9	20.9	20.9	1	17.6	17.6	17.6
			1	5	1	20.0	20.0	20.0	1	20.9	21.0	20.9	1	20.9	20.9	20.9	1	17.6	17.6	17.6
			3	0	1	20.0	20.1	20.1	1	20.9	21.0	20.9	1	20.9	21.0	20.9	1	17.7	17.6	17.6
			3	1	1	20.0	20.1	20.0	1	20.9	21.0	20.9	1	21.0	21.0	21.0	1	17.7	17.6	17.6
			3	3	1	20.1	20.0	20.0	1	20.9	21.0	20.9	1	20.9	20.9	20.9	1	17.5	17.5	17.7
			6	0	2	19.1	19.0	18.9	2	19.9	19.9	19.9	2	19.9	19.9	19.9	2	16.6	16.7	16.6

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	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz
LTE Band 26	10	QPSK	1	0	0	23.6	23.7	23.6	0	23.6	23.7	23.6	0	23.9	24.0	24.0	0	24.0	23.9	23.9
			1	24	0	23.7	23.7	23.7	0	23.7	23.7	23.7	0	24.0	24.0	24.0	0	24.0	24.0	24.0
			1	49	0	23.6	23.6	23.6	0	23.6	23.6	23.7	0	23.9	23.9	24.0	0	23.9	23.9	24.0
			25	0	1	22.6	22.7	22.5	1	22.6	22.6	22.7	1	22.9	22.9	22.9	1	22.9	22.9	22.9
			25	12	1	22.7	22.7	22.7	1	22.7	22.7	22.7	1	23.0	23.0	23.0	1	23.0	23.0	23.0
			25	24	1	22.7	22.7	22.5	1	22.7	22.6	22.7	1	22.9	23.0	22.9	1	23.0	22.9	22.8
		16QAM	50	0	1	22.6	22.7	22.6	1	22.6	22.7	22.7	1	22.9	23.0	22.9	1	22.9	23.0	22.9
			1	0	1	22.6	22.5	22.6	1	22.7	22.7	22.6	1	22.9	22.9	23.0	1	22.9	23.0	23.0
			1	24	1	22.6	22.6	22.7	1	22.7	22.7	22.6	1	23.0	22.9	22.9	1	23.0	22.9	22.9
			1	49	1	22.6	22.6	22.5	1	22.7	22.7	22.6	1	22.9	22.9	22.9	1	23.0	23.0	22.9
			25	0	2	21.6	21.6	21.6	2	21.5	21.6	21.6	2	21.9	21.8	21.9	2	22.0	21.9	22.0
			25	12	2	21.6	21.5	21.7	2	21.7	21.6	21.6	2	22.0	21.8	21.9	2	22.0	21.9	21.9
			25	24	2	21.6	21.6	21.6	2	21.6	21.5	21.6	2	21.9	22.0	21.9	2	21.9	21.9	21.9
			50	0	2	21.6	21.7	21.6	2	21.6	21.6	21.6	2	21.9	21.9	22.0	2	21.9	22.0	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		
						816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz
LTE Band 26	5	QPSK	1	0	0	23.7	23.6	23.6	0	23.6	23.6	23.7	0	24.0	23.8	23.9	0	23.9	23.8	24.0
			1	12	0	23.6	23.6	23.6	0	23.6	23.6	23.6	0	23.9	24.0	24.0	0	23.9	23.9	23.9
			1	24	0	23.5	23.6	23.7	0	23.7	23.7	23.6	0	24.0	23.9	23.9	0	24.0	23.9	23.9
			12	0	1	22.5	22.7	22.6	1	22.6	22.7	22.7	1	23.0	23.0	23.0	1	23.0	23.0	22.9
			12	7	1	22.6	22.6	22.7	1	22.7	22.7	22.7	1	22.9	22.9	22.9	1	23.0	22.9	22.9
			12	13	1	22.6	22.6	22.7	1	22.6	22.7	22.6	1	22.9	22.9	22.9	1	22.9	22.9	23.0
		16QAM	25	0	1	22.6	22.6	22.6	1	22.7	22.6	22.6	1	22.8	22.9	22.9	1	22.9	23.0	22.9
			1	0	1	22.6	22.7	22.7	1	22.7	22.7	22.7	1	22.9	23.0	22.9	1	23.0	22.9	22.8
			1	12	1	22.6	22.6	22.6	1	22.6	22.7	22.6	1	23.0	23.0	22.9	1	22.9	22.9	22.9
			1	24	1	22.6	22.7	22.6	1	22.7	22.7	22.6	1	22.9	22.9	23.0	1	22.9	22.9	22.9
			12	0	2	21.7	21.7	21.6	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	22.0	22.0	22.0
			12	7	2	21.6	21.6	21.6	2	21.6	21.6	21.7	2	21.9	22.0	22.0	2	21.8	22.0	22.0
			12	13	2	21.6	21.6	21.6	2	21.6	21.6	21.5	2	21.9	21.9	21.8	2	21.9	22.0	21.9
			25	0	2	21.6	21.7	21.7	2	21.6	21.6	21.6	2	21.9	21.9	21.9	2	21.9	21.9	21.9

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

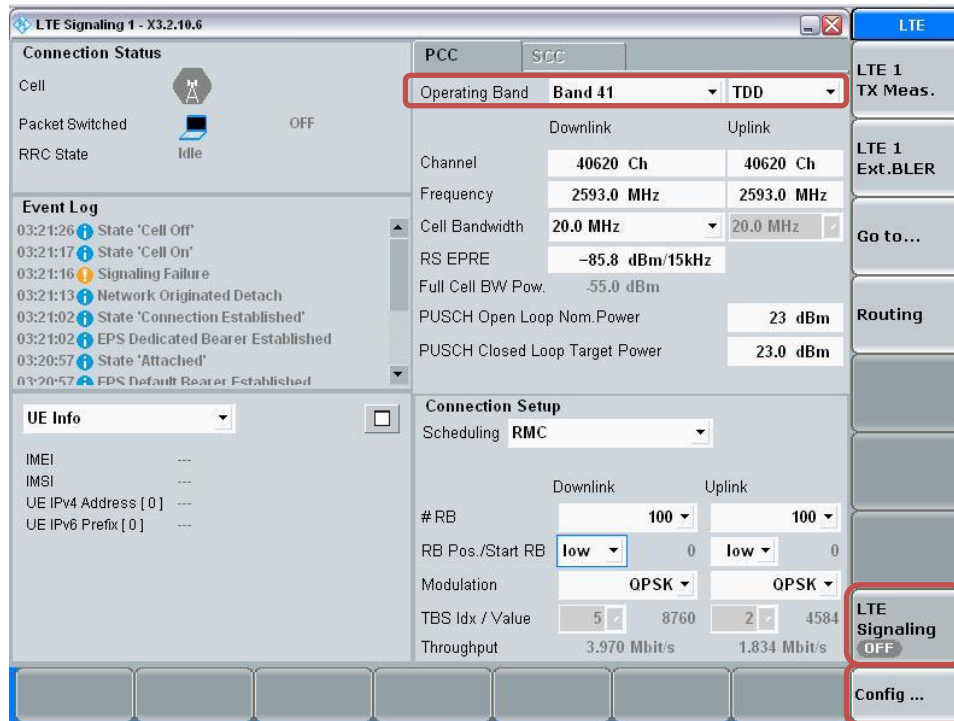
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	UAT / HEAD			Target MPR	UAT / BODY			Target MPR	LAT / HEAD			Target MPR	LAT / BODY		
						815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz
LTE Band 26	3	QPSK	1	0	0	23.5	23.5	23.6	0	23.7	23.7	23.7	0	23.9	24.0	23.9	0	23.9	23.9	23.9
			1	8	0	23.7	23.7	23.6	0	23.7	23.5	23.7	0	23.9	23.9	23.9	0	24.0	23.9	23.9
			1	14	0	23.6	23.7	23.7	0	23.7	23.6	23.7	0	23.9	23.9	23.9	0	23.9	23.8	24.0
			8	0	1	22.6	22.6	22.7	1	22.6	22.7	22.6	1	22.9	22.9	22.8	1	22.9	22.8	22.9
			8	4	1	22.6	22.7	22.6	1	22.6	22.6	22.7	1	22.9	23.0	22.9	1	22.9	22.9	22.9
			8	7	1	22.6	22.6	22.7	1	22.6	22.6	22.6	1	23.0	22.9	23.0	1	22.9	23.0	22.9
		16QAM	15	0	1	22.6	22.7	22.6	1	22.7	22.7	22.6	1	22.9	22.9	22.9	1	22.8	22.9	22.8
			1	0	1	22.6	22.6	22.6	1	22.6	22.6	22.7	1	22.8	22.8	22.9	1	22.9	22.9	22.9
			1	8	1	22.7	22.7	22.6	1	22.5	22.6	22.6	1	23.0	22.9	22.8	1	22.9	23.0	22.8
			1	14	1	22.6	22.6	22.6	1	22.7	22.6	22.7	1	22.9	22.9	23.0	1	22.9	22.9	23.0
			8	0	2	21.6	21.7	21.6	2	21.6	21.7	21.6	2	22.0	21.9	21.9	2	21.9	22.0	22.0
			8	4	2	21.6	21.7	21.7	2	21.6	21.6	21.7	2	21.9	21.9	21.9	2	21.9	21.9	21.9
			8	7	2	21.6	21.5	21.6	2	21.7	21.6	21.6	2	22.0	22.0	21.9	2	21.9	22.0	21.9
			15	0	2	21.6	21.6	21.7	2	21.6	21.6	21.7	2	21.9	21.9	22.0	2	21.9	22.0	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		
						814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz
LTE Band 26	1.4	QPSK	1	0	0	23.6	23.5	23.6	0	23.6	23.7	23.6	0	23.9	23.9	24.0	0	23.9	23.8	23.9
			1	3	0	23.7	23.7	23.6	0	23.6	23.6	23.6	0	23.9	23.9	23.9	0	23.9	23.9	23.9
			1	5	0	23.6	23.7	23.6	0	23.6	23.6	23.6	0	23.9	24.0	24.0	0	24.0	23.9	23.9
			3	0	0	23.7	23.5	23.6	0	23.6	23.6	23.7	0	24.0	23.9	23.9	0	23.8	23.9	23.9
			3	1	0	23.6	23.6	23.7	0	23.6	23.6	23.6	0	23.9	24.0	23.8	0	23.9	23.9	23.9
			3	3	0	23.6	23.6	23.7	0	23.5	23.5	23.6	0	23.9	23.9	23.9	0	23.9	23.9	24.0
		16QAM	6	0	1	22.6	22.6	22.6	1	22.6	22.6	22.6	1	22.9	22.9	23.0	1	23.0	23.0	23.0
			1	0	1	22.6	22.6	22.6	1	22.6	22.6	22.7	1	22.9	22.9	22.9	1	23.0	23.0	22.9
			1	3	1	22.6	22.6	22.7	1	22.6	22.6	22.7	1	23.0	22.9	23.0	1	22.9	23.0	22.9
			1	5	1	22.6	22.6	22.7	1	22.6	22.6	22.6	1	22.9	22.9	22.9	1	23.0	22.9	23.0
			3	0	1	22.6	22.5	22.7	1	22.7	22.6	22.6	1	22.9	22.9	23.0	1	22.8	22.8	22.9
			3	1	1	22.7	22.6	22.6	1	22.7	22.6	22.6	1	22.9	22.9	22.9	1	22.9	22.9	22.9
			3	3	1	22.6	22.6	22.6	1	22.6	22.7	22.6	1	23.0	23.0	22.9	1	22.9	22.9	23.0
			6	0	2	21.6	21.6	21.7	2	21.6	21.7	21.6	2	21.9	21.9	21.9	2	22.0	21.9	22.0

LTE Band 41 Average Power (dBm) Measured Results

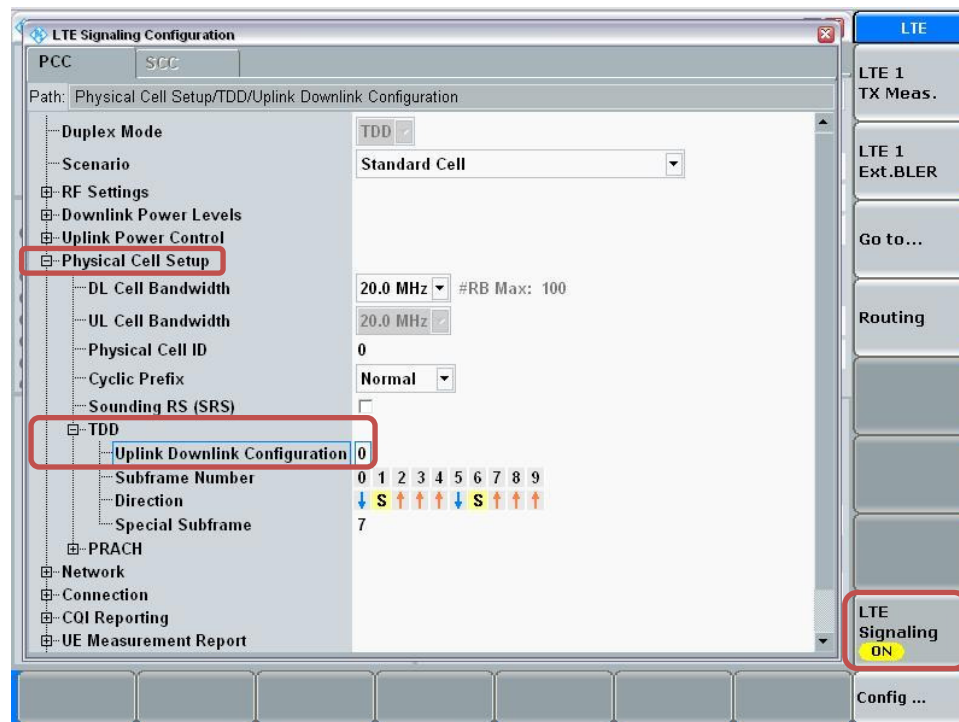
Procedure used to establish SAR test signal for LTE TDD Band 41

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”

The screenshot displays the 'LTE Signaling 1 - X3.2.10.6' window. The 'Connection Status' section on the left shows the cell is 'Attached' (indicated by a green signal icon and a red box around the word 'Attached'). Below this, the 'Event Log' lists several events, including 'State 'Attached'', 'EPS Default Bearer Established', 'RRC Connection Established', 'State 'Cell On'', 'State 'Cell Off'', 'State 'Cell On'', 'Signaling Failure', and 'Network Originated Detach'. The 'UE Info' section shows details for IMEI (001027009999998), IMSI (001010123456789), UE IPv4 Address (192.168.48.129), and UE IPv6 Prefix (fc01:abab:cdbc:efe0::). The 'Connection Setup' section on the right shows various parameters for PCC and SCC, including Operating Band (Band 41), Frequency (2593.0 MHz), Cell Bandwidth (20.0 MHz), RS EPRE (-85.8 dBm/15kHz), Full Cell BW Pow. (-55.0 dBm), PUSCH Open Loop Nom. Power (23 dBm), and PUSCH Closed Loop Target Power (23.0 dBm). The 'LTE Signaling' button on the right is highlighted with a red box and shows 'ON'. At the bottom, the 'Connect' button is also highlighted with a red box.

Max Power Setting

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

LTE Signaling 1 - X3.2.10.6

Connection Status

Cell: Connection Established

Packet Switched: Connection Established

RRC State: Connected

Event Log

03:33:07 [i] State 'Connection Established'

03:33:07 [i] EPS Dedicated Bearer Established

03:31:31 [i] State 'Attached'

03:31:31 [i] EPS Default Bearer Established

03:31:31 [i] RRC Connection Established

03:31:02 [i] State 'Cell On'

03:31:00 [i] State 'Cell Off'

03:30:23 [i] State 'Cell On'

UE Info

IMEI: 001027009999998

IMSI: 001010123456789

UE IPv4 Address [0]: 192.168.48.129

UE IPv6 Prefix [0]: fc01:abab:cddc:efe0::

Connection Setup

Scheduling: RMC

Downlink

Operating Band: Band 41

Channel: 40620 Ch

Frequency: 2593.0 MHz

Cell Bandwidth: 20.0 MHz

RS EPRE: -85.8 dBm/15kHz

Full Cell BW Pow.: -55.0 dBm

PUSCH Open Loop Nom.Power: 23 dBm

PUSCH Closed Loop Target Power: 23.0 dBm

Uplink

Channel: 40620 Ch

Frequency: 2593.0 MHz

Cell Bandwidth: 20.0 MHz

RS EPRE: -85.8 dBm/15kHz

Full Cell BW Pow.: -55.0 dBm

PUSCH Open Loop Nom.Power: 23 dBm

PUSCH Closed Loop Target Power: 23.0 dBm

Connection Setup

Scheduling: RMC

#RB: 100

RB Pos./Start RB: low

Modulation: QPSK

TBS Idx / Value: 5 / 8760

Throughput: 3.970 Mbit/s

LTE

LTE 1 TX Meas.

LTE 1 Ext.BLER

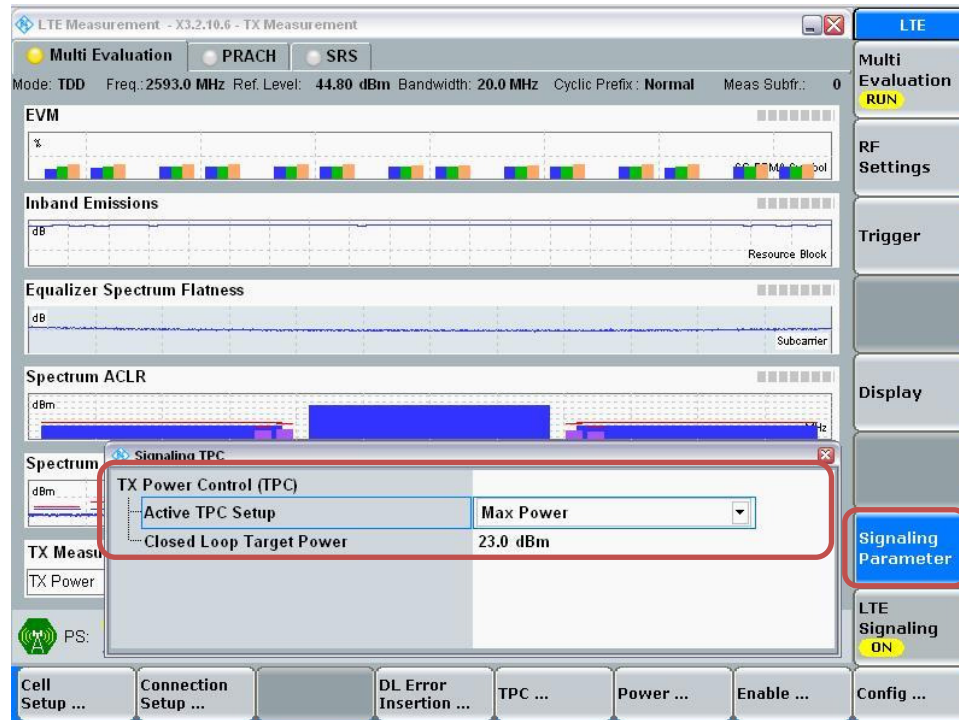
Go to...

Routing

LTE Signaling ON

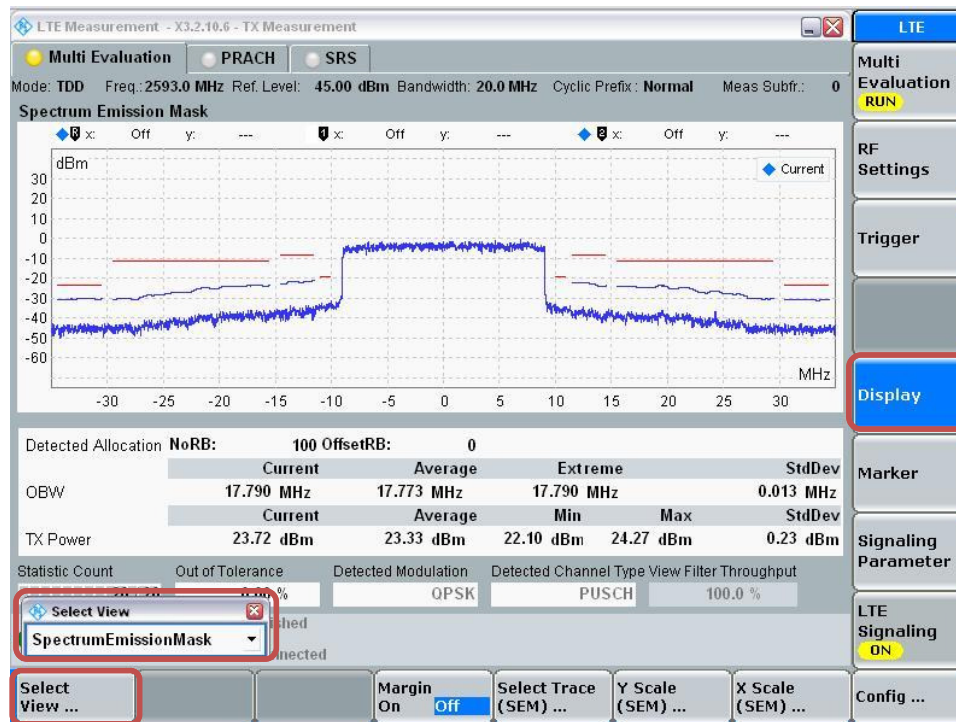
Detach Disconnect Send SMS Handover ... Config ...

- 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”



LTE Band 41 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				
						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	21.9	22.0	21.9	21.9	22.0	0	21.4	21.4	21.4	21.4	21.5	0	22.4	22.4	22.4	22.4	22.5	0	20.5	20.4	20.4	20.5	20.5
			1	49	0	22.0	22.0	22.0	22.0	22.0	0	21.5	21.5	21.5	21.5	21.5	0	22.4	22.4	22.5	22.4	22.5	0	20.5	20.5	20.5	20.5	20.5
			1	99	0	21.8	21.9	22.0	21.9	21.9	0	21.3	21.4	21.4	21.4	21.4	0	22.4	22.4	22.5	22.4	22.4	0	20.4	20.5	20.3	20.5	20.4
			50	0	1	20.8	20.9	20.9	20.9	21.0	1	20.4	20.4	20.4	20.4	20.3	1	21.4	21.4	21.4	21.3	21.4	1	19.4	19.4	19.5	19.4	19.4
			50	24	1	21.0	21.0	21.0	21.0	21.0	1	20.5	20.5	20.5	20.5	20.5	1	21.4	21.5	21.5	21.5	21.4	1	19.5	19.5	19.5	19.5	19.5
			50	49	1	20.8	21.0	20.9	21.0	20.9	1	20.4	20.4	20.4	20.5	20.4	1	21.5	21.4	21.4	21.5	21.4	1	19.4	19.4	19.5	19.4	19.4
		16QAM	100	0	1	20.9	20.9	20.8	20.9	20.9	1	20.5	20.5	20.5	20.3	20.5	1	21.4	21.3	21.3	21.4	21.4	1	19.5	19.4	19.5	19.5	19.4
			1	0	1	20.9	20.9	20.9	21.0	20.9	1	20.4	20.4	20.5	20.4	20.5	1	21.4	21.3	21.4	21.3	21.5	1	19.5	19.5	19.3	19.3	19.4
			1	49	1	20.9	21.0	20.8	20.9	20.9	1	20.4	20.4	20.4	20.4	20.4	1	21.4	21.4	21.4	21.5	21.4	1	19.4	19.4	19.4	19.5	19.5
			1	99	1	21.0	20.9	20.9	20.9	20.9	1	20.4	20.4	20.4	20.5	20.5	1	21.4	21.4	21.4	21.4	21.4	1	19.4	19.5	19.4	19.4	19.4
			50	0	2	19.9	20.0	20.0	20.0	19.9	2	19.3	19.4	19.4	19.4	19.5	2	20.4	20.5	20.5	20.4	20.4	2	18.4	18.4	18.5	18.4	18.5
			50	24	2	20.0	20.0	20.0	20.0	19.9	2	19.4	19.5	19.4	19.5	19.5	2	20.4	20.5	20.4	20.4	20.4	2	18.5	18.4	18.5	18.4	18.4
			50	49	2	19.8	19.9	19.8	19.9	20.0	2	19.5	19.4	19.5	19.4	19.5	2	20.4	20.4	20.5	20.4	20.4	2	18.4	18.4	18.4	18.4	18.5
			100	0	2	20.0	20.0	20.0	19.9	20.0	2	19.4	19.4	19.4	19.5	19.5	2	20.5	20.5	20.4	20.5	20.5	2	18.4	18.5	18.4	18.4	18.5
LTE Band 41	15	QPSK	1	0	0	22.0	21.9	21.9	21.9	21.9	0	21.5	21.4	21.4	21.4	21.5	0	22.4	22.4	22.5	22.4	22.4	0	20.5	20.4	20.4	20.4	20.5
			1	36	0	21.9	21.9	21.9	21.9	21.9	0	21.4	21.4	21.5	21.3	21.4	0	22.5	22.4	22.4	22.4	22.4	0	20.5	20.3	20.5	20.4	20.4
			1	74	0	21.9	22.0	21.9	22.0	21.9	0	21.4	21.4	21.4	21.5	21.4	0	22.4	22.4	22.5	22.4	22.4	0	20.5	20.5	20.4	20.4	20.5
			36	0	1	20.9	20.9	21.0	20.9	21.0	1	20.5	20.4	20.4	20.5	20.4	1	21.5	21.3	21.4	21.4	21.4	1	19.4	19.4	19.5	19.4	19.4
			36	18	1	21.0	20.9	20.9	20.8	20.9	1	20.4	20.5	20.5	20.4	20.4	1	21.5	21.4	21.4	21.4	21.5	1	19.4	19.4	19.4	19.4	19.4
			36	37	1	20.9	20.9	20.9	20.9	21.0	1	20.5	20.5	20.4	20.4	20.4	1	21.5	21.4	21.4	21.5	21.4	1	19.4	19.4	19.5	19.5	19.4
		16QAM	75	0	1	20.9	21.0	20.9	20.9	21.0	1	20.5	20.5	20.4	20.3	20.3	1	21.5	21.5	21.4	21.5	21.4	1	19.4	19.4	19.5	19.4	19.4
			1	0	1	20.9	20.8	20.9	20.9	20.9	1	20.4	20.4	20.4	20.5	20.4	1	21.5	21.4	21.5	21.3	21.3	1	19.5	19.4	19.4	19.5	19.4
			1	36	1	20.9	21.0	21.0	20.8	20.9	1	20.4	20.4	20.5	20.5	20.4	1	21.5	21.5	21.4	21.4	21.4	1	19.4	19.3	19.5	19.4	19.5
			1	74	1	21.0	20.9	21.0	21.0	20.9	1	20.4	20.3	20.4	20.5	20.4	1	21.5	21.4	21.4	21.4	21.4	1	19.5	19.5	19.4	19.5	19.4
			36	0	2	19.9	19.9	19.9	19.9	19.9	2	19.4	19.3	19.5	19.5	19.4	2	20.4	20.5	20.4	20.5	20.4	2	18.5	18.4	18.4	18.5	18.4
			36	18	2	19.9	19.8	20.0	19.9	19.9	2	19.4	19.4	19.4	19.5	19.5	2	20.4	20.4	20.4	20.4	20.4	2	18.4	18.5	18.4	18.4	18.4
			36	37	2	19.9	19.9	19.9	19.9	19.9	2	19.5	19.3	19.5	19.4	19.4	2	20.4	20.4	20.5	20.4	20.4	2	18.4	18.4	18.5	18.4	18.4
			75	0	2	19.9	20.0	19.9	19.9	19.8	2	19.5	19.5	19.4	19.3	19.5	2	20.5	20.5	20.4	20.4	20.4	2	18.4	18.4	18.4	18.5	18.4
LTE Band 41	10	QPSK	1	0	0	21.9	22.0	21.9	21.9	21.8	0	21.4	21.4	21.4	21.5	21.4	0	22.4	22.5	22.4	22.5	22.5	0	20.5	20.4	20.5	20.4	20.5
			1	24	0	21.9	22.0	21.9	21.9	21.8	0	21.4	21.4	21.4	21.3	21.5	0	22.4	22.4	22.4	22.5	22.4	0	20.4	20.5	20.4	20.4	20.5
			1	49	0	22.0	22.0	21.9	21.9	21.8	0	21.4	21.4	21.4	21.5	21.4	0	22.5	22.5	22.5	22.5	22.4	0	20.4	20.4	20.4	20.4	20.5
			25	0	1	20.9	20.9	20.9	21.0	20.9	1	20.4	20.3	20.4	20.4	20.4	1	21.4	21.4	21.4	21.4	21.4	1	19.5	19.4	19.4	19.4	19.4
			25	12	1	20.9	21.0	21.0	20.9	21.0	1	20.5	20.4	20.4	20.4	20.4	1	21.5	21.4	21.4	21.5	21.4	1	19.5	19.4	19.5	19.4	19.3
			25	24	1	20.9	20.8	20.9	20.9	21.0	1	20.4	20.5	20.4	20.5	20.4	1	21.3	21.5	21.4	21.4	21.5	1	19.4	19.4	19.4	19.3	19.5
		16QAM	50	0	1	20.9	20.9	20.9	20.9	21.0	1	20.4	20.5	20.4	20.5	20.5	1	21.5	21.5	21.4	21.4	21.4	1	19.3	19.4	19.4	19.4	19.5
			1	0	1	20.9	21.0	20.8	20.9	20.9	1	20.4	20.5	20.4	20.4	20.4	1	21.4	21.4	21.4	21.3	21.4	1	19.3	19.4	19.5	19.5	19.3
			1	24	1	20.9	20.9	21.0	20.9	20.9	1	20.4	20.5	20.4	20.5	20.3	1	21.5	21.4	21.5	21.5	21.4	1	19.4	19.4	19.5	19.4	19.4
			1	49	1	20.9	21.0	20.9	21.0	20.9	1	20.4	20.4	20.4	20.4	20.5	1	21.5	21.5	21.4	21.5	21.5	1	19.5	19.4	19.4	19.4	19.4
			25	0	2	19.9	19.9	19.8	19.9	19.9	2	19.5	19.5	19.5	19.4	19.5	2	20.4	20.4	20.4	20.5	20.4	2	18.5	18.5	18.4	18.4	18.4
			25	12	2	19.9	19.9	20.0	20.0	20.0	2	19.4	19.4	19.3	19.4	19.4	2	20.5	20.3	20.4	20.3	20.4	2	18.4	18.4	18.4	18.4	18.4
			25	24	2	19.9	20.0	20.0	20.0	20.0	2	19.4	19.4	19.4	19.4	19.5	2	20.3	20.4	20.4	20.5	20.3	2	18.4	18.5	18.4	18.4	18.4
			50	0	2	20.0	19.9	19.9	19.9	19.9	2	19.5	19.4	19.4	19.4	19.5	2	20.4	20.4	20.3	20.4	20.5	2	18.5	18.4	18.4	18.4	18.5

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	22.0	21.9	21.9	21.9	21.9	0	21.4	21.3	21.4	21.5	21.4	0	22.4	22.4	22.4	22.4	22.4	0	20.5	20.5	20.4	20.3	20.5
			1	12	0	21.9	21.9	21.9	22.0	21.9	0	21.5	21.4	21.4	21.4	21.3	0	22.5	22.4	22.4	22.4	22.4	0	20.4	20.4	20.4	20.4	20.4
			1	24	0	22.0	21.9	21.9	21.9	21.9	0	21.4	21.5	21.4	21.4	21.4	0	22.4	22.4	22.4	22.4	22.4	0	20.4	20.4	20.5	20.5	20.4
			12	0	1	20.9	20.9	21.0	20.9	21.0	1	20.4	20.5	20.4	20.4	20.4	1	21.4	21.5	21.4	21.4	21.4	1	19.4	19.5	19.5	19.4	19.4
			12	7	1	21.0	20.9	20.9	20.9	20.9	1	20.4	20.4	20.4	20.5	20.4	1	21.5	21.5	21.4	21.4	21.5	1	19.4	19.4	19.4	19.4	19.4
			12	13	1	21.0	21.0	21.0	21.0	20.9	1	20.5	20.4	20.4	20.4	20.5	1	21.5	21.4	21.3	21.4	21.4	1	19.5	19.4	19.4	19.5	19.4
		16QAM	25	0	1	20.9	20.9	21.0	21.0	20.9	1	20.4	20.4	20.5	20.4	20.3	1	21.5	21.5	21.5	21.5	21.5	1	19.4	19.4	19.4	19.4	19.5
			1	0	1	20.9	21.0	20.9	20.9	20.9	1	20.3	20.4	20.4	20.3	20.4	1	21.4	21.4	21.4	21.4	21.4	1	19.4	19.4	19.4	19.4	19.4
			1	12	1	20.9	20.8	20.9	20.9	21.0	1	20.4	20.4	20.4	20.4	20.4	1	21.3	21.4	21.4	21.4	21.4	1	19.4	19.4	19.4	19.4	19.5
			1	24	1	20.9	20.9	21.0	21.0	20.9	1	20.3	20.4	20.5	20.5	20.4	1	21.4	21.5	21.5	21.5	21.4	1	19.4	19.4	19.5	19.4	19.4
			12	0	2	19.9	19.9	19.9	20.0	19.9	2	19.4	19.4	19.5	19.4	19.4	2	20.3	20.4	20.4	20.5	20.5	2	18.5	18.4	18.3	18.5	18.4
			12	7	2	20.0	19.9	19.9	20.0	19.9	2	19.5	19.5	19.5	19.4	19.5	2	20.4	20.4	20.5	20.5	20.4	2	18.4	18.5	18.4	18.5	18.5
			12	13	2	19.9	19.9	19.9	20.0	19.9	2	19.4	19.4	19.4	19.4	19.4	2	20.4	20.3	20.5	20.4	20.5	2	18.3	18.5	18.4	18.5	18.4
			25	0	2	19.9	19.9	19.9	19.9	19.9	2	19.5	19.4	19.4	19.4	19.4	2	20.4	20.4	20.5	20.4	20.5	2	18.4	18.5	18.5	18.4	18.4

9.5. 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

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Head		Body	
					Cell On	Cell Off	Cell On	Cell Off
2.4	802.11b	1 Tx	1	2412	13.0	16.8	14.5	18.5
			6	2437	13.0	16.8	14.5	18.5
			11	2462	13.0	16.8	14.5	18.5
			12	2467	13.0	16.8	14.5	18.0
			13	2472	13.0	15.0	14.5	15.0

9.6. 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

Measured Results

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Head		Body	
					Cell On	Cell Off	Cell On	Cell Off
5.2	802.11n HT40	1 Tx	38	5190	Not required	16.0	Not required	
			46	5230	Not required	18.0		
	802.11ac VHT80	1 Tx	42	5210	13.0	Not required		
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Head		Body	
					Cell On	Cell Off	Cell On	Cell Off
5.3	802.11n HT40	1 Tx	54	5270	Not required		Not required	17.5
			62	5310			Not required	16.0
	802.11ac VHT80	1 Tx	58	5290			13.0	Not required
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Head		Body	
					Cell On	Cell Off	Cell On	Cell Off
5.5	802.11ac VHT80	1 Tx	106	5530	11.7	15.5	12.5	15.5
			122	5610	11.7	16.5	12.5	17.0
			138	5690	11.7	16.5	12.5	17.0
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Head		Body	
					Cell On	Cell Off	Cell On	Cell Off
5.8	802.11n HT40	1 Tx	151	5755	Not required	15.5	Not required	15.5
			159	5795	Not required	16.5	Not required	17.0
	802.11ac VHT80	1 Tx	155	5775	12.0	Not required	12.0	Not required

9.7. Bluetooth

Band (GHz)	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)
2.4	V3.0 + EDR, GFSK	0	2402	11.5
		39	2441	11.5
		78	2480	11.5

10. Measured and Reported (Scaled) SAR Results

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.
- For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

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	128	824.2	33.2	33.2	0.690	0.690	0.501	0.501	1
				190	836.6	33.2	33.2	0.835	0.835	0.607	0.607	
				251	848.8	33.2	33.2	0.749	0.749	0.540	0.540	
			Left Tilt	190	836.6	33.2	33.2	0.650	0.650	0.390	0.390	
			Right Touch	190	836.6	33.2	33.2	0.512	0.512	0.353	0.353	
			Right Tilt	190	836.6	33.2	33.2	0.451	0.451	0.285	0.285	
Head VoIP	GPRS 2 Slots	0	Left Touch	128	824.2	30.2	30.2	0.657	0.657	0.486	0.486	
				190	836.6	30.2	30.2	0.834	0.834	0.605	0.605	
				251	848.8	30.2	30.2	0.780	0.780	0.564	0.564	
			Left Tilt	190	836.6	30.2	30.2	0.672	0.672	0.407	0.407	
			Right Touch	190	836.6	30.2	30.2	0.612	0.612	0.449	0.449	
			Right Tilt	190	836.6	30.2	30.2	0.495	0.495	0.298	0.298	
Body-worn	Voice	5	Rear	190	836.6	33.2	33.2	0.254	0.254	0.156	0.156	
			Front	190	836.6	33.2	33.2	0.248	0.248	0.187	0.187	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	190	836.6	30.2	30.2	0.368	0.368	0.225	0.225	
Front			190	836.6	30.2	30.2	0.274	0.274	0.160	0.160		
Hotspot			Edge 1	190	836.6	30.2	30.2	0.212	0.212	0.102	0.102	
			Edge 2	190	836.6	30.2	30.2	0.482	0.482	0.315	0.315	
			Edge 4	190	836.6	30.2	30.2	0.221	0.221	0.143	0.143	

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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	190	836.6	33.5	33.5	0.540	0.540	0.410	0.410		
			Left Tilt	190	836.6	33.5	33.5	0.352	0.352	0.271	0.271		
			Right Touch	190	836.6	33.5	33.5	0.504	0.504	0.378	0.378		
			Right Tilt	190	836.6	33.5	33.5	0.334	0.334	0.257	0.257		
Head VoIP	GPRS 2 Slots	0	Left Touch	190	836.6	30.5	30.2	0.616	0.660	0.464	0.497		
			Left Tilt	190	836.6	30.5	30.2	0.334	0.358	0.254	0.272		
			Right Touch	190	836.6	30.5	30.2	0.503	0.539	0.378	0.405		
			Right Tilt	190	836.6	30.5	30.2	0.317	0.340	0.241	0.258		
Body-worn	Voice	5	Rear	190	836.6	33.5	33.5	0.732	0.732	0.480	0.480		
			Front	190	836.6	33.5	33.5	0.618	0.618	0.469	0.469		
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	128	824.2	30.5	30.5	1.070	1.070	0.764	0.764	2	
				190	836.6	30.5	30.5	1.120	1.120	0.792	0.792		
				251	848.8	30.5	30.5	1.060	1.060	0.745	0.745		
			Front	128	824.2	30.5	30.5	0.930	0.930	0.709	0.709		
				190	836.6	30.5	30.5	0.957	0.957	0.728	0.728		
				251	848.8	30.5	30.5	0.862	0.862	0.650	0.650		
Hotspot			Edge 2	190	836.6	30.5	30.5	0.629	0.629	0.408	0.408		
			Edge 3	190	836.6	30.5	30.5	0.274	0.274	0.139	0.139		
			Edge 4	128	824.2	30.5	30.5	1.040	1.040	0.684	0.684		
				190	836.6	30.5	30.5	1.010	1.010	0.665	0.665		
				251	848.8	30.5	30.5	0.999	0.999	0.653	0.653		

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	29.9	29.9	0.484	0.484	0.259	0.259	
			Left Tilt	661	1880.0	29.9	29.9	0.568	0.568	0.298	0.298	
			Right Touch	661	1880.0	29.9	29.9	0.798	0.798	0.416	0.416	
			Right Tilt	661	1880.0	29.9	29.9	0.789	0.789	0.417	0.417	
Head VoIP	GPRS 2 Slots	0	Left Touch	661	1880.0	26.9	26.9	0.484	0.484	0.259	0.259	
			Left Tilt	661	1880.0	26.9	26.9	0.585	0.585	0.305	0.305	
			Right Touch	661	1880.0	26.9	26.9	0.756	0.756	0.392	0.392	
			Right Tilt	661	1880.0	26.9	26.9	0.729	0.729	0.391	0.391	
Body-worn	Voice	5	Rear	661	1880.0	29.9	29.9	0.744	0.744	0.408	0.408	
			Front	661	1880.0	29.9	29.9	0.619	0.619	0.339	0.339	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	661	1880.0	26.9	26.9	0.732	0.732	0.379	0.379	
Front			661	1880.0	26.9	26.9	0.438	0.438	0.235	0.235		
Hotspot			Edge 1	661	1880.0	26.9	26.9	0.355	0.355	0.149	0.149	
			Edge 2	661	1880.0	26.9	26.9	0.162	0.162	0.083	0.083	
			Edge 4	661	1880.0	26.9	26.9	0.399	0.399	0.209	0.209	

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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	0.684	0.684	0.448	0.448	
			Left Tilt	661	1880.0	30.5	30.5	0.326	0.326	0.182	0.182	
			Right Touch	512	1850.2	30.5	30.5	0.988	0.988	0.613	0.613	
				661	1880.0	30.5	30.5	0.911	0.911	0.559	0.559	
				810	1909.8	30.5	30.5	0.930	0.930	0.563	0.563	
			Right Tilt	661	1880.0	30.5	30.5	0.379	0.379	0.219	0.219	
Head VoIP	GPRS 2 Slots	0	Left Touch	661	1880.0	27.5	27.5	0.634	0.634	0.413	0.413	
			Left Tilt	661	1880.0	27.5	27.5	0.291	0.291	0.162	0.162	
			Right Touch	512	1850.2	27.5	27.5	1.010	1.010	0.627	0.627	3
				661	1880.0	27.5	27.5	0.861	0.861	0.533	0.533	
				810	1909.8	27.5	27.5	0.775	0.775	0.471	0.471	
			Right Tilt	661	1880.0	27.5	27.5	0.334	0.334	0.194	0.194	
Body-worn	Voice	5	Rear	512	1850.2	29.0	29.0	1.020	1.020	0.490	0.490	
				661	1880.0	29.0	29.0	1.100	1.100	0.508	0.508	
				810	1909.8	29.0	29.0	1.040	1.040	0.487	0.487	
			Front	512	1850.2	29.0	29.0	0.918	0.918	0.494	0.494	
				661	1880.0	29.0	29.0	0.935	0.935	0.498	0.498	
				810	1909.8	29.0	29.0	0.959	0.959	0.508	0.508	
Body-worn(VoIP) & Hotspot	GPRS 2 Slots	5	Rear	512	1850.2	26.0	26.0	1.120	1.120	0.541	0.541	4
				661	1880.0	26.0	26.0	1.120	1.120	0.526	0.526	
				810	1909.8	26.0	26.0	1.050	1.050	0.482	0.482	
			Front	512	1850.2	26.0	26.0	0.965	0.965	0.522	0.522	
				661	1880.0	26.0	26.0	0.935	0.935	0.495	0.495	
				810	1909.8	26.0	26.0	0.887	0.887	0.470	0.470	
Hotspot	GPRS 2 Slots	5	Edge 2	661	1880.0	26.0	26.0	0.728	0.728	0.376	0.376	
			Edge 3	512	1850.2	26.0	26.0	1.040	1.040	0.499	0.499	
				661	1880.0	26.0	26.0	1.100	1.100	0.511	0.511	
				810	1909.8	26.0	26.0	0.929	0.929	0.430	0.430	
			Edge 4	661	1880.0	26.0	26.0	0.051	0.051	0.028	0.028	
				661	1880.0	26.0	26.0	0.051	0.051	0.028	0.028	

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	24.7	24.7	0.737	0.737	0.536	0.536	5
			Left Tilt	4183	836.6	24.7	24.7	0.519	0.519	0.314	0.314	
			Right Touch	4183	836.6	24.7	24.7	0.235	0.235	0.177	0.177	
			Right Tilt	4183	836.6	24.7	24.7	0.171	0.171	0.118	0.118	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	4183	836.6	24.7	24.7	0.313	0.313	0.187	0.187	
			Front	4183	836.6	24.7	24.7	0.318	0.318	0.243	0.243	
Hotspot	Rel 99 RMC	5	Edge 1	4183	836.6	24.7	24.7	0.168	0.168	0.083	0.083	
			Edge 2	4183	836.6	24.7	24.7	0.410	0.410	0.272	0.272	
			Edge 4	4183	836.6	24.7	24.7	0.203	0.203	0.133	0.133	

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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	0.623	0.623	0.473	0.473	
			Left Tilt	4183	836.6	25.0	25.0	0.388	0.388	0.296	0.296	
			Right Touch	4183	836.6	25.0	25.0	0.594	0.594	0.450	0.450	
			Right Tilt	4183	836.6	25.0	25.0	0.397	0.397	0.300	0.300	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	4132	826.4	24.3	24.0	0.982	1.052	0.700	0.750	
				4183	836.6	24.3	24.0	1.040	1.114	0.730	0.782	
				4233	846.6	24.3	24.0	1.060	1.136	0.737	0.790	6
			Front	4132	826.4	24.3	24.0	0.985	1.055	0.697	0.747	
				4183	836.6	24.3	24.0	0.852	0.913	0.634	0.679	
				4233	846.6	24.3	24.0	0.894	0.958	0.670	0.718	
Hotspot	Rel 99 RMC	5	Edge 2	4183	836.6	24.3	24.0	0.695	0.745	0.451	0.483	
			Edge 3	4183	836.6	24.3	24.0	0.278	0.298	0.139	0.149	
			Edge 4	4132	826.4	24.3	24.0	0.830	0.889	0.550	0.589	
				4183	836.6	24.3	24.0	0.980	1.050	0.647	0.693	
				4233	846.6	24.3	24.0	0.949	1.017	0.625	0.670	

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	22.3	22.3	0.611	0.611	0.345	0.345	
			Left Tilt	1413	1732.6	22.3	22.3	0.607	0.607	0.330	0.330	
			Right Touch	1312	1712.4	22.3	22.3	0.736	0.736	0.381	0.381	
				1413	1732.6	22.3	22.3	0.869	0.869	0.444	0.444	
			Right Tilt	1513	1752.6	22.3	22.3	0.988	0.988	0.506	0.506	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	1413	1732.6	24.4	24.1	0.721	0.773	0.419	0.449	
				1312	1712.4	24.4	24.1	0.807	0.865	0.465	0.498	
				1513	1752.6	24.4	24.1	0.900	0.964	0.514	0.551	
			Front	1413	1732.6	24.4	24.1	0.565	0.605	0.320	0.343	
Hotspot	Rel 99 RMC	5	Edge 1	1413	1732.6	24.4	24.1	0.426	0.456	0.191	0.205	
			Edge 2	1413	1732.6	24.4	24.1	0.135	0.145	0.076	0.082	
			Edge 4	1413	1732.6	24.4	24.1	0.478	0.512	0.264	0.283	

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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	22.7	22.7	0.691	0.691	0.469	0.469	
			Left Tilt	1413	1732.6	22.7	22.7	0.278	0.278	0.173	0.173	
			Right Touch	1312	1712.4	22.7	22.7	0.971	0.971	0.622	0.622	
				1413	1732.6	22.7	22.7	1.040	1.040	0.665	0.665	
			Right Tilt	1513	1752.6	22.7	22.7	1.100	1.100	0.692	0.692	7
Body-worn & Hotspot	Rel 99 RMC	5	Rear	1413	1732.6	19.5	19.5	1.130	1.130	0.613	0.613	8
				1312	1712.4	19.5	19.5	1.120	1.120	0.603	0.603	
				1513	1752.6	19.5	19.5	1.130	1.130	0.603	0.603	
			Front	1312	1712.4	19.5	19.5	0.877	0.877	0.489	0.489	
				1413	1732.6	19.5	19.5	0.877	0.877	0.492	0.492	
Hotspot	Rel 99 RMC	5	Edge 2	1513	1752.6	19.5	19.5	0.878	0.878	0.496	0.496	
			Edge 3	1413	1732.6	19.5	19.5	0.581	0.581	0.315	0.315	
			Edge 4	1413	1732.6	19.5	19.5	0.769	0.769	0.358	0.358	

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	21.7	21.7	0.542	0.542	0.281	0.281	
			Left Tilt	9400	1880.0	21.7	21.7	0.621	0.621	0.315	0.315	
			Right Touch	9262	1852.4	21.7	21.7	0.964	0.964	0.493	0.493	
				9400	1880.0	21.7	21.7	0.972	0.972	0.504	0.504	
			Right Tilt	9538	1907.6	21.7	21.6	0.961	0.983	0.494	0.506	
				9400	1880.0	21.7	21.7	0.762	0.762	0.387	0.387	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	9262	1852.4	22.5	22.5	0.881	0.881	0.453	0.453	
				9400	1880.0	22.5	22.5	0.975	0.975	0.502	0.502	
				9538	1907.6	22.5	22.4	0.976	0.999	0.507	0.519	
			Front	9400	1880.0	22.5	22.5	0.693	0.693	0.371	0.371	
Hotspot	Rel 99 RMC	5	Edge 1	9400	1880.0	22.5	22.5	0.632	0.632	0.263	0.263	
			Edge 2	9400	1880.0	22.5	22.5	0.162	0.162	0.084	0.084	
			Edge 4	9400	1880.0	22.5	22.5	0.538	0.538	0.281	0.281	

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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	9262	1852.4	22.5	22.4	0.830	0.849	0.540	0.553	
				9400	1880.0	22.5	22.4	0.847	0.867	0.548	0.561	
				9538	1907.6	22.5	22.5	0.851	0.851	0.547	0.547	
			Left Tilt	9400	1880.0	22.5	22.4	0.509	0.521	0.296	0.303	
			Right Touch	9262	1852.4	22.5	22.4	1.110	1.136	0.687	0.703	9
				9400	1880.0	22.5	22.4	1.110	1.136	0.680	0.696	
				9538	1907.6	22.5	22.5	1.100	1.100	0.669	0.669	
Body-worn & Hotspot	Rel 99 RMC	5	Rear	9400	1880.0	22.5	22.4	0.480	0.491	0.287	0.294	
				9262	1852.4	18.3	18.0	0.990	1.061	0.475	0.509	
				9400	1880.0	18.3	18.0	0.983	1.053	0.459	0.492	
			Front	9538	1907.6	18.3	18.0	1.050	1.125	0.484	0.519	10
Hotspot	Rel 99 RMC	5	Edge 2	9400	1880.0	18.3	18.0	0.594	0.636	0.316	0.339	
				9400	1880.0	18.3	18.0	0.530	0.568	0.278	0.298	
				9400	1880.0	18.3	18.0	0.628	0.673	0.294	0.315	

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	24.7	24.7	0.871	0.871	0.631	0.631	11
				384	836.5	24.7	24.7	0.909	0.909	0.655	0.655	
				777	848.3	24.7	24.7	0.871	0.871	0.626	0.626	
			Left Tilt	384	836.5	24.7	24.7	0.625	0.625	0.378	0.378	
			Right Touch	384	836.5	24.7	24.7	0.671	0.671	0.433	0.433	
			Right Tilt	384	836.5	24.7	24.7	0.522	0.522	0.329	0.329	
	1xEVDO (Rel. 0)	0	Left Touch	1013	824.7	24.7	24.7	0.842	0.842	0.609	0.609	
				384	836.5	24.7	24.7	0.877	0.877	0.632	0.632	
				777	848.3	24.7	24.7	0.838	0.838	0.600	0.600	
			Left Tilt	384	836.5	24.7	24.7	0.622	0.622	0.379	0.379	
			Right Touch	384	836.5	24.7	24.7	0.671	0.671	0.426	0.426	
			Right Tilt	384	836.5	24.7	24.7	0.484	0.484	0.304	0.304	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	384	836.5	24.7	24.7	0.507	0.507	0.373	0.373	
			Front	384	836.5	24.7	24.7	0.364	0.364	0.211	0.211	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	384	836.5	24.7	24.7	0.247	0.247	0.122	0.122	
			Edge 2	384	836.5	24.7	24.7	0.669	0.669	0.437	0.437	
			Edge 4	384	836.5	24.7	24.7	0.299	0.299	0.193	0.193	

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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	0.738	0.738	0.557	0.557	
			Left Tilt	384	836.5	25.0	25.0	0.474	0.474	0.360	0.360	
			Right Touch	384	836.5	25.0	25.0	0.649	0.649	0.489	0.489	
			Right Tilt	384	836.5	25.0	25.0	0.498	0.498	0.377	0.377	
	1xEVDO (Rel. 0)	0	Left Touch	384	836.5	25.0	25.0	0.727	0.727	0.549	0.549	
			Left Tilt	384	836.5	25.0	25.0	0.463	0.463	0.351	0.351	
			Right Touch	384	836.5	25.0	25.0	0.624	0.624	0.482	0.482	
			Right Tilt	384	836.5	25.0	25.0	0.481	0.481	0.362	0.362	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	1013	824.7	24.3	24.0	0.930	0.997	0.669	0.717	
				384	836.5	24.3	24.0	1.010	1.082	0.718	0.769	
				777	848.3	24.3	24.0	1.030	1.104	0.729	0.781	12
		Front	1013	824.7	24.3	24.0	0.855	0.916	0.658	0.705		
			384	836.5	24.3	24.0	0.892	0.956	0.687	0.736		
			777	848.3	24.3	24.0	0.883	0.946	0.678	0.726		
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	384	836.5	24.3	24.0	0.695	0.745	0.450	0.482	
			Edge 3	384	836.5	24.3	24.0	0.259	0.278	0.132	0.141	
			Edge 4	1013	824.7	24.3	24.0	0.936	1.003	0.618	0.662	
				384	836.5	24.3	24.0	1.010	1.082	0.665	0.713	
				777	848.3	24.3	24.0	1.040	1.114	0.680	0.729	13

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	21.0	21.0	0.636	0.636	0.327	0.327	
			Left Tilt	600	1880.0	21.0	21.0	0.669	0.669	0.334	0.334	
			Right Touch	25	1851.3	21.0	21.0	0.908	0.908	0.454	0.454	
				600	1880.0	21.0	21.0	0.960	0.960	0.486	0.486	
			Right Tilt	1175	1908.8	21.0	21.0	0.974	0.974	0.501	0.501	
				25	1851.3	21.0	21.0	0.755	0.755	0.365	0.365	
	1xEVDO (Rel. 0)	0	Right Tilt	600	1880.0	21.0	21.0	0.846	0.846	0.420	0.420	
				1175	1908.8	21.0	21.0	0.887	0.887	0.456	0.456	
			Left Touch	600	1880.0	21.0	21.0	0.473	0.473	0.244	0.244	
				600	1880.0	21.0	21.0	0.532	0.532	0.269	0.269	
			Left Tilt	25	1851.3	21.0	21.0	0.882	0.882	0.445	0.445	
				600	1880.0	21.0	21.0	0.899	0.899	0.457	0.457	
			Right Touch	1175	1908.8	21.0	21.0	0.931	0.931	0.474	0.474	
				25	1851.3	21.0	21.0	0.850	0.850	0.428	0.428	
			Right Tilt	600	1880.0	21.0	21.0	0.793	0.793	0.398	0.398	
				1175	1908.8	21.0	21.0	0.830	0.830	0.428	0.428	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1851.3	22.0	22.0	0.834	0.834	0.416	0.416	
				600	1880.0	22.0	22.0	0.913	0.913	0.455	0.455	
				1175	1908.8	22.0	22.0	0.965	0.965	0.479	0.479	
			Front	600	1880.0	22.0	22.0	0.697	0.697	0.363	0.363	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	600	1880.0	22.0	22.0	0.711	0.711	0.298	0.298	
			Edge 2	600	1880.0	22.0	22.0	0.138	0.138	0.072	0.072	
			Edge 4	600	1880.0	22.0	22.0	0.466	0.466	0.244	0.244	

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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	22.3	22.0	0.609	0.653	0.393	0.421	
			Left Tilt	600	1880.0	22.3	22.0	0.450	0.482	0.262	0.281	
			Right Touch	25	1851.3	22.3	22.0	1.000	1.072	0.609	0.653	
				600	1880.0	22.3	22.0	1.040	1.114	0.629	0.674	14
			Right Tilt	1175	1908.8	22.3	22.0	1.030	1.104	0.613	0.657	
	1xEVDO (Rel. 0)	0	Right Tilt	600	1880.0	22.3	22.0	0.487	0.522	0.287	0.308	
			Left Touch	600	1880.0	22.3	22.0	0.601	0.644	0.387	0.415	
			Left Tilt	600	1880.0	22.3	22.0	0.428	0.459	0.249	0.267	
			Right Touch	25	1851.3	22.3	22.0	0.935	1.002	0.561	0.601	
				600	1880.0	22.3	22.0	0.994	1.065	0.588	0.630	
			Right Tilt	1175	1908.8	22.3	22.0	0.978	1.048	0.580	0.621	
			Right Tilt	600	1880.0	22.3	22.0	0.475	0.509	0.277	0.297	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1851.3	18.5	18.4	1.100	1.126	0.528	0.540	
				600	1880.0	18.5	18.5	1.130	1.130	0.525	0.525	
				1175	1908.8	18.5	18.5	1.140	1.140	0.519	0.519	15
			Front	600	1880.0	18.5	18.5	0.639	0.639	0.337	0.337	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	600	1880.0	18.5	18.5	0.569	0.569	0.298	0.298	
			Edge 3	25	1851.3	18.5	18.4	0.828	0.847	0.399	0.408	
				600	1880.0	18.5	18.5	0.882	0.882	0.422	0.422	
				1175	1908.8	18.5	18.5	0.876	0.876	0.411	0.411	
			Edge 4	600	1880.0	18.5	18.5	0.084	0.084	0.044	0.044	

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	24.7	24.7	0.759	0.759	0.514	0.514	
			Left Tilt	580	820.5	24.7	24.7	0.557	0.557	0.337	0.337	
			Right Touch	580	820.5	24.7	24.7	0.558	0.558	0.360	0.360	
			Right Tilt	580	820.5	24.7	24.7	0.504	0.504	0.301	0.301	
	1xEVDO (Rel. 0)	0	Left Touch	580	820.5	24.7	24.7	0.714	0.714	0.472	0.472	
			Left Tilt	580	820.5	24.7	24.7	0.532	0.532	0.324	0.324	
			Right Touch	580	820.5	24.7	24.7	0.557	0.557	0.359	0.359	
			Right Tilt	580	820.5	24.7	24.7	0.500	0.500	0.297	0.297	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	580	820.5	24.7	24.7	0.419	0.419	0.312	0.312	
			Front	580	820.5	24.7	24.7	0.362	0.362	0.278	0.278	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	580	820.5	24.7	24.7	0.221	0.221	0.107	0.107	
			Edge 2	580	820.5	24.7	24.7	0.592	0.592	0.389	0.389	
			Edge 4	580	820.5	24.7	24.7	0.286	0.286	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	1xRTT (RC3 SO55)	0	Left Touch	580	820.5	25.0	25.0	0.763	0.763	0.577	0.577	16
			Left Tilt	580	820.5	25.0	25.0	0.546	0.546	0.422	0.422	
			Right Touch	580	820.5	25.0	25.0	0.609	0.609	0.458	0.458	
			Right Tilt	580	820.5	25.0	25.0	0.474	0.474	0.362	0.362	
	1xEVDO (Rel. 0)	0	Left Touch	580	820.5	25.0	25.0	0.717	0.717	0.554	0.554	
			Left Tilt	580	820.5	25.0	25.0	0.545	0.545	0.420	0.420	
			Right Touch	580	820.5	25.0	25.0	0.558	0.558	0.442	0.442	
			Right Tilt	580	820.5	25.0	25.0	0.470	0.470	0.358	0.358	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	476	817.9	24.3	24.0	0.900	0.964	0.645	0.691	
				580	820.5	24.3	24.0	0.913	0.978	0.655	0.702	
				670	822.8	24.3	24.0	0.929	0.995	0.665	0.713	17
			Front	476	817.9	24.3	24.0	0.782	0.838	0.604	0.647	
				580	820.5	24.3	24.0	0.788	0.844	0.611	0.655	
				670	822.8	24.3	24.0	0.792	0.849	0.612	0.656	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	580	820.5	24.3	24.0	0.680	0.729	0.440	0.471	
			Edge 3	580	820.5	24.3	24.0	0.212	0.227	0.107	0.115	
			Edge 4	476	817.9	24.3	24.0	0.974	1.044	0.645	0.691	
				580	820.5	24.3	24.0	0.915	0.980	0.604	0.647	
				670	822.8	24.3	24.0	0.994	1.065	0.658	0.705	18

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	22.0	22.0	0.613	0.613	0.343	0.343	
			Left Tilt	450	1732.5	22.0	22.0	0.612	0.612	0.330	0.330	
			Right Touch	25	1711.3	22.0	22.0	0.741	0.741	0.384	0.384	
				450	1732.5	22.0	22.0	0.875	0.875	0.448	0.448	
				875	1753.8	22.0	22.0	0.995	0.995	0.507	0.507	
			Right Tilt	450	1732.5	22.0	22.0	0.685	0.685	0.352	0.352	
	1xEVDO (Rel. 0)	0	Left Touch	450	1732.5	22.0	22.0	0.562	0.562	0.310	0.310	
			Left Tilt	450	1732.5	22.0	22.0	0.615	0.615	0.332	0.332	
			Right Touch	25	1711.3	22.0	22.0	0.694	0.694	0.359	0.359	
				450	1732.5	22.0	22.0	0.828	0.828	0.426	0.426	
				875	1753.8	22.0	22.0	0.964	0.964	0.492	0.492	
			Right Tilt	450	1732.5	22.0	22.0	0.631	0.631	0.330	0.330	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1711.3	23.7	23.7	0.746	0.746	0.425	0.425	
				450	1732.5	23.7	23.7	0.869	0.869	0.492	0.492	
				875	1753.8	23.7	23.7	0.973	0.973	0.539	0.539	
			Front	450	1732.5	23.7	23.7	0.560	0.560	0.315	0.315	
Hotspot	1xRTT (RC3 SO32)	5	Edge 1	450	1732.5	23.7	23.7	0.540	0.540	0.246	0.246	
			Edge 2	450	1732.5	23.7	23.7	0.142	0.142	0.079	0.079	
			Edge 4	450	1732.5	23.7	23.7	0.529	0.529	0.289	0.289	

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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	23.0	23.0	0.714	0.714	0.481	0.481	
			Left Tilt	450	1732.5	23.0	23.0	0.302	0.302	0.184	0.184	
			Right Touch	25	1711.3	23.0	23.0	1.060	1.060	0.682	0.682	
				450	1732.5	23.0	23.0	1.110	1.110	0.706	0.706	
				875	1753.8	23.0	23.0	1.140	1.140	0.723	0.723	19
			Right Tilt	450	1732.5	23.0	23.0	0.369	0.369	0.224	0.224	
	1xEVDO (Rel. 0)	0	Left Touch	450	1732.5	23.0	23.0	0.664	0.664	0.449	0.449	
			Left Tilt	450	1732.5	23.0	23.0	0.297	0.297	0.180	0.180	
			Right Touch	25	1711.3	23.0	23.0	0.970	0.970	0.620	0.620	
				450	1732.5	23.0	23.0	1.060	1.060	0.671	0.671	
				875	1753.8	23.0	23.0	1.020	1.020	0.652	0.652	
			Right Tilt	450	1732.5	23.0	23.0	0.303	0.303	0.186	0.186	
Body-worn & Hotspot	1xRTT (RC3 SO32)	5	Rear	25	1711.3	19.5	19.5	1.070	1.070	0.577	0.577	
				450	1732.5	19.5	19.5	1.060	1.060	0.568	0.568	
				875	1753.8	19.5	19.5	1.080	1.080	0.566	0.566	20
			Front	450	1732.5	19.5	19.5	0.795	0.795	0.445	0.445	
Hotspot	1xRTT (RC3 SO32)	5	Edge 2	450	1732.5	19.5	19.5	0.588	0.588	0.318	0.318	
			Edge 3	25	1711.3	19.5	19.5	0.803	0.803	0.381	0.381	
				450	1732.5	19.5	19.5	0.914	0.914	0.438	0.438	
				875	1753.8	19.5	19.5	0.977	0.977	0.469	0.469	
			Edge 4	450	1732.5	19.5	19.5	0.043	0.043	0.025	0.025	

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	21.5	21.5	0.510	0.510	0.268	0.268	
						50	24	20.5	20.5	0.422	0.422	0.218	0.218	
			Left Tilt	18900	1880.0	1	49	21.5	21.5	0.614	0.614	0.324	0.324	
						50	24	20.5	20.5	0.500	0.500	0.262	0.262	
			Right Touch	18700	1860.0	1	49	21.5	21.5	0.859	0.859	0.452	0.452	
				18900	1880.0	1	49	21.5	21.5	0.889	0.889	0.468	0.468	
						50	24	20.5	20.5	0.714	0.714	0.365	0.365	
				19100	1900.0	1	49	21.5	21.5	0.882	0.882	0.447	0.447	
			Right Tilt	18700	1860.0	1	49	21.5	21.5	0.812	0.812	0.431	0.431	
				18900	1880.0	1	49	21.5	21.5	0.818	0.818	0.431	0.431	
						50	24	20.5	20.5	0.638	0.638	0.340	0.340	
				19100	1900.0	1	49	21.5	21.5	0.783	0.783	0.407	0.407	
Body-worn & Hotspot	QPSK	5	Rear	18700	1860.0	1	49	22.5	22.5	0.986	0.986	0.522	0.522	
				18900	1880.0	1	49	22.5	22.5	0.992	0.992	0.526	0.526	
						50	24	21.5	21.5	0.760	0.760	0.402	0.402	
			Front	19100	1900.0	1	49	22.5	22.5	0.970	0.970	0.506	0.506	
				18900	1880.0	1	49	22.5	22.5	0.610	0.610	0.343	0.343	
						50	24	21.5	21.5	0.506	0.506	0.280	0.280	
Hotspot	QPSK	5	Edge 1	18900	1880.0	1	49	22.5	22.5	0.562	0.562	0.236	0.236	
						50	24	21.5	21.5	0.443	0.443	0.186	0.186	
			Edge 2	18900	1880.0	1	49	22.5	22.5	0.344	0.344	0.177	0.177	
						50	24	21.5	21.5	0.262	0.262	0.135	0.135	
			Edge 4	18900	1880.0	1	49	22.5	22.5	0.735	0.735	0.388	0.388	
						50	24	21.5	21.5	0.510	0.510	0.270	0.270	

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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	18700	1860.0	1	49	22.0	22.0	0.949	0.949	0.607	0.607	21
				18900	1880.0	1	49	22.0	22.0	0.910	0.910	0.583	0.583	
						50	24	21.0	21.0	0.683	0.683	0.436	0.436	
			Left Tilt	19100	1900.0	1	49	22.0	22.0	0.863	0.863	0.552	0.552	
				18900	1880.0	1	49	22.0	22.0	0.377	0.377	0.223	0.223	
						50	24	21.0	21.0	0.285	0.285	0.168	0.168	
			Right Touch	18700	1860.0	1	49	22.0	22.0	1.140	1.140	0.695	0.695	
						50	24	21.0	21.0	0.946	0.946	0.570	0.570	
				18900	1880.0	1	49	22.0	22.0	1.110	1.110	0.667	0.667	
						50	24	21.0	21.0	0.851	0.851	0.513	0.513	
						100	0	21.0	21.0	0.860	0.860	0.517	0.517	
				19100	1900.0	1	49	22.0	22.0	1.010	1.010	0.605	0.605	
						50	24	21.0	21.0	0.841	0.841	0.500	0.500	
			Right Tilt	18900	1880.0	1	49	22.0	22.0	0.318	0.318	0.200	0.200	
						50	24	21.0	21.0	0.241	0.241	0.151	0.151	
Body-worn & Hotspot	QPSK	5	Rear	18700	1860.0	1	49	18.0	18.0	1.130	1.130	0.541	0.541	22
						50	24	17.0	17.0	0.883	0.883	0.418	0.418	
				18900	1880.0	1	49	18.0	18.0	1.110	1.110	0.527	0.527	
						50	24	17.0	17.0	0.875	0.875	0.409	0.409	
						100	0	17.0	17.0	0.864	0.864	0.405	0.405	
				19100	1900.0	1	49	18.0	18.0	0.945	0.945	0.455	0.455	
						50	24	17.0	17.0	0.835	0.835	0.387	0.387	
			Front	18900	1880.0	1	49	18.0	18.0	0.703	0.703	0.377	0.377	
Hotspot	QPSK	5	Edge 2	18900	1880.0	1	49	18.0	18.0	0.626	0.626	0.323	0.323	
						50	24	17.0	17.0	0.498	0.498	0.256	0.256	
			Edge 3	18900	1880.0	1	49	18.0	18.0	0.720	0.720	0.341	0.341	
						50	24	17.0	17.0	0.572	0.572	0.270	0.270	
			Edge 4	18900	1880.0	1	49	18.0	18.0	0.065	0.065	0.032	0.032	
						50	24	17.0	17.0	0.053	0.053	0.026	0.026	

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	23.0	23.0	0.733	0.733	0.404	0.404	
						50	24	22.0	22.0	0.595	0.595	0.330	0.330	
			Left Tilt	20175	1732.5	1	49	23.0	23.0	0.715	0.715	0.389	0.389	
						50	24	22.0	22.0	0.582	0.582	0.315	0.315	
			Right Touch	20050	1720.0	1	49	23.0	23.0	0.896	0.896	0.466	0.466	
						50	24	22.0	22.0	0.736	0.736	0.382	0.382	
				20175	1732.5	1	49	23.0	23.0	0.989	0.989	0.512	0.512	
						50	24	22.0	22.0	0.812	0.812	0.418	0.418	
						100	0	22.0	22.0	0.815	0.815	0.419	0.419	
				20300	1745.0	1	49	23.0	23.0	0.938	0.938	0.487	0.487	
						50	24	22.0	22.0	0.888	0.888	0.455	0.455	
			Right Tilt	20050	1720.0	1	49	23.0	23.0	0.790	0.790	0.420	0.420	
				20175	1732.5	1	49	23.0	23.0	0.821	0.821	0.432	0.432	
						50	24	22.0	22.0	0.675	0.675	0.356	0.356	
				20300	1745.0	1	49	23.0	23.0	0.903	0.903	0.471	0.471	
Body-worn & Hotspot	QPSK	5	Rear	20050	1720.0	1	49	23.4	23.4	0.786	0.786	0.438	0.438	
				20175	1732.5	1	49	23.4	23.4	0.871	0.871	0.482	0.482	
						50	24	22.4	22.4	0.587	0.587	0.340	0.340	
			Front	20300	1745.0	1	49	23.4	23.4	0.923	0.923	0.506	0.506	
				20175	1732.5	1	49	23.4	23.4	0.471	0.471	0.268	0.268	
						50	24	22.4	22.4	0.401	0.401	0.227	0.227	
Hotspot	QPSK	5	Edge 1	20175	1732.5	1	49	23.4	23.4	0.408	0.408	0.186	0.186	
						50	24	22.4	22.4	0.305	0.305	0.137	0.137	
			Edge 2	20175	1732.5	1	49	23.4	23.4	0.101	0.101	0.057	0.057	
						50	24	22.4	22.4	0.088	0.088	0.049	0.049	
			Edge 4	20175	1732.5	1	49	23.4	23.4	0.441	0.441	0.242	0.242	
						50	24	22.4	22.4	0.347	0.347	0.191	0.191	

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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	23.0	23.0	0.649	0.649	0.436	0.436	
						50	24	22.0	22.0	0.527	0.527	0.356	0.356	
			Left Tilt	20175	1732.5	1	49	23.0	23.0	0.312	0.312	0.192	0.192	
						50	24	22.0	22.0	0.247	0.247	0.151	0.151	
			Right Touch	20050	1720.0	1	49	23.0	23.0	1.020	1.020	0.659	0.659	
						50	24	22.0	22.0	0.789	0.789	0.507	0.507	
				20175	1732.5	1	49	23.0	23.0	1.100	1.100	0.702	0.702	
						50	24	22.0	22.0	0.972	0.972	0.609	0.609	
						100	0	22.0	22.0	0.992	0.992	0.621	0.621	
				20300	1745.0	1	49	23.0	23.0	1.120	1.120	0.713	0.713	23
						50	24	22.0	22.0	0.920	0.920	0.577	0.577	
			Right Tilt	20175	1732.5	1	49	23.0	23.0	0.303	0.303	0.188	0.188	
						50	24	22.0	22.0	0.246	0.246	0.152	0.152	
Body-worn & Hotspot	QPSK	5	Rear	20050	1720.0	1	49	19.5	19.5	1.060	1.060	0.574	0.574	
						50	24	18.5	18.5	0.882	0.882	0.476	0.476	
				20175	1732.5	1	49	19.5	19.5	1.090	1.090	0.577	0.577	
						50	24	18.5	18.5	0.876	0.876	0.467	0.467	
						100	0	18.5	18.5	0.873	0.873	0.467	0.467	
				20300	1745.0	1	49	19.5	19.5	1.110	1.110	0.586	0.586	24
						50	24	18.5	18.5	0.906	0.906	0.478	0.478	
			Front	20050	1720.0	1	49	19.5	19.5	0.881	0.881	0.486	0.486	
						1	49	19.5	19.5	0.886	0.886	0.490	0.490	
				20175	1732.5	50	24	18.5	18.5	0.687	0.687	0.380	0.380	
						1	49	19.5	19.5	0.888	0.888	0.500	0.500	
				20300	1745.0	1	49	19.5	19.5	0.888	0.888	0.500	0.500	
						1	49	19.5	19.5	0.888	0.888	0.500	0.500	
Hotspot	QPSK	5	Edge 2	20175	1732.5	1	49	19.5	19.5	0.563	0.563	0.307	0.307	
						50	24	18.5	18.5	0.443	0.443	0.241	0.241	
			Edge 3	20175	1732.5	1	49	19.5	19.5	0.737	0.737	0.342	0.342	
						50	24	18.5	18.5	0.590	0.590	0.275	0.275	
			Edge 4	20175	1732.5	1	49	19.5	19.5	0.046	0.046	0.024	0.024	
						50	24	18.5	18.5	0.036	0.036	0.019	0.019	

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	23.7	23.7	0.626	0.626	0.458	0.458	25
						25	12	22.7	22.7	0.491	0.491	0.327	0.327	
			Left Tilt	20525	836.5	1	24	23.7	23.7	0.443	0.443	0.255	0.255	
						25	12	22.7	22.7	0.328	0.328	0.194	0.194	
			Right Touch	20525	836.5	1	24	23.7	23.7	0.509	0.509	0.318	0.318	
						25	12	22.7	22.7	0.412	0.412	0.263	0.263	
			Right Tilt	20525	836.5	1	24	23.7	23.7	0.380	0.380	0.214	0.214	
						25	12	22.7	22.7	0.289	0.289	0.163	0.163	
			Rear	20525	836.5	1	24	23.7	23.7	0.385	0.385	0.264	0.264	
						25	12	22.7	22.7	0.299	0.299	0.207	0.207	
Body-worn & Hotspot	QPSK	5	Front	20525	836.5	1	24	23.7	23.7	0.299	0.299	0.200	0.200	
						25	12	22.7	22.7	0.230	0.230	0.158	0.158	
			Edge 1	20525	836.5	1	24	23.7	23.7	0.226	0.226	0.108	0.108	
						25	12	22.7	22.7	0.179	0.179	0.085	0.085	
Hotspot	QPSK	5	Edge 2	20525	836.5	1	24	23.7	23.7	0.310	0.310	0.203	0.203	
						25	12	22.7	22.7	0.220	0.220	0.145	0.145	
			Edge 4	20525	836.5	1	24	23.7	23.7	0.125	0.125	0.076	0.076	
						25	12	22.7	22.7	0.093	0.093	0.057	0.057	

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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	0.538	0.538	0.410	0.410	
						25	12	23.0	23.0	0.431	0.431	0.328	0.328	
			Left Tilt	20525	836.5	1	24	24.0	24.0	0.302	0.302	0.235	0.235	
						25	12	23.0	23.0	0.250	0.250	0.194	0.194	
			Right Touch	20525	836.5	1	24	24.0	24.0	0.501	0.501	0.376	0.376	
						25	12	23.0	23.0	0.434	0.434	0.324	0.324	
			Right Tilt	20525	836.5	1	24	24.0	24.0	0.251	0.251	0.194	0.194	
						25	12	23.0	23.0	0.203	0.203	0.158	0.158	
Body-worn & Hotspot	QPSK	5	Rear	20450	829.0	1	24	24.0	23.7	0.767	0.822	0.532	0.570	
						25	12	23.0	23.0	0.641	0.641	0.445	0.445	
				20525	836.5	1	24	24.0	24.0	1.020	1.020	0.706	0.706	26
						25	12	23.0	23.0	0.802	0.802	0.556	0.556	
			Front	20600	844.0	1	24	24.0	23.9	0.868	0.888	0.605	0.619	
						25	12	23.0	23.0	0.784	0.784	0.547	0.547	
				20525	836.5	1	24	24.0	24.0	0.705	0.705	0.534	0.534	
						25	12	23.0	23.0	0.667	0.667	0.504	0.504	
Hotspot	QPSK	5	Edge 2	20525	836.5	1	24	24.0	24.0	0.478	0.478	0.307	0.307	
						25	12	23.0	23.0	0.425	0.425	0.274	0.274	
			Edge 3	20525	836.5	1	24	24.0	24.0	0.235	0.235	0.118	0.118	
						25	12	23.0	23.0	0.214	0.214	0.105	0.105	
			Edge 4	20525	836.5	1	24	24.0	24.0	0.747	0.747	0.492	0.492	
						25	12	23.0	23.0	0.604	0.604	0.395	0.395	

10.13. LTE Band 7 (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	21100	2535.0	1	49	18.7	18.7	0.288	0.288	0.139	0.139	
						50	24	17.7	17.7	0.238	0.238	0.111	0.111	
			Left Tilt	21100	2535.0	1	49	18.7	18.7	0.189	0.189	0.089	0.089	
						50	24	17.7	17.7	0.153	0.153	0.072	0.072	
			Right Touch	20850	2510.0	1	49	18.7	18.7	0.843	0.843	0.358	0.358	
						50	24	17.7	17.7	0.654	0.654	0.273	0.273	
				21100	2535.0	1	49	18.7	18.7	0.965	0.965	0.402	0.402	27
						50	24	17.7	17.7	0.939	0.939	0.388	0.388	
						100	0	17.7	17.7	0.941	0.941	0.388	0.388	
				21350	2560.0	1	49	18.7	18.7	0.950	0.950	0.404	0.404	
						50	24	17.7	17.7	0.781	0.781	0.329	0.329	
			Right Tilt	21100	2535.0	1	49	18.7	18.7	0.602	0.602	0.268	0.268	
						50	24	17.7	17.7	0.445	0.445	0.193	0.193	
Body-worn & Hotspot	QPSK	5	Rear	20850	2510.0	1	49	19.0	19.0	0.810	0.810	0.337	0.337	
				21100	2535.0	1	49	19.0	19.0	0.845	0.845	0.350	0.350	
						50	24	18.0	18.0	0.690	0.690	0.280	0.280	
			Front	21100	2535.0	1	49	19.0	19.0	0.295	0.295	0.139	0.139	
						50	24	18.0	18.0	0.282	0.282	0.132	0.132	
						50	24	18.0	18.0	0.282	0.282	0.132	0.132	
Hotspot	QPSK	5	Edge 1	21100	2535.0	1	49	19.0	19.0	0.178	0.178	0.080	0.080	
						50	24	18.0	18.0	0.129	0.129	0.058	0.058	
			Edge 2	21100	2535.0	1	49	19.0	19.0	0.033	0.033	0.013	0.013	
						50	24	18.0	18.0	0.025	0.025	0.008	0.008	
			Edge 4	21100	2535.0	1	49	19.0	19.0	0.600	0.600	0.275	0.275	
						50	24	18.0	18.0	0.442	0.442	0.203	0.203	

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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	22.5	22.5	0.821	0.821	0.432	0.432	
				21100	2535.0	1	49	22.5	22.5	0.906	0.906	0.460	0.460	
						50	24	21.5	21.5	0.634	0.634	0.334	0.334	
			Left Tilt	21350	2560.0	1	49	22.5	22.5	0.793	0.793	0.425	0.425	
				21100	2535.0	1	49	22.5	22.5	0.346	0.346	0.166	0.166	
						50	24	21.5	21.5	0.227	0.227	0.110	0.110	
			Right Touch	21100	2535.0	1	49	22.5	22.5	0.481	0.481	0.272	0.272	
						50	24	21.5	21.5	0.369	0.369	0.205	0.205	
				21100	2535.0	1	49	22.5	22.5	0.252	0.252	0.123	0.123	
			Right Tilt			50	24	21.5	21.5	0.167	0.167	0.081	0.081	
Body-worn & Hotspot	QPSK	5	Rear	20850	2510.0	1	49	18.7	18.7	1.110	1.110	0.514	0.514	28
						50	24	17.7	17.7	0.887	0.887	0.405	0.405	
				21100	2535.0	1	49	18.7	18.7	1.070	1.070	0.485	0.485	
						50	24	17.7	17.7	0.868	0.868	0.389	0.389	
						100	0	17.7	17.7	0.927	0.927	0.403	0.403	
				21350	2560.0	1	49	18.7	18.7	1.090	1.090	0.481	0.481	
			Front			50	24	17.7	17.7	0.707	0.707	0.302	0.302	
				20850	2510.0	1	49	18.7	18.7	0.883	0.883	0.358	0.358	
				21100	2535.0	1	49	18.7	18.7	1.100	1.100	0.498	0.498	
						50	24	17.7	17.7	0.754	0.754	0.314	0.314	
				21350	2560.0	1	49	18.7	18.7	0.983	0.983	0.410	0.410	
Hotspot	QPSK	5	Edge 2	21100	2535.0	1	49	18.7	18.7	0.055	0.055	0.027	0.027	
						50	24	17.7	17.7	0.049	0.049	0.023	0.023	
			Edge 3	20850	2510.0	1	49	18.7	18.7	0.753	0.753	0.303	0.303	
				21100	2535.0	1	49	18.7	18.7	0.793	0.793	0.313	0.313	
						50	24	17.7	17.7	0.629	0.629	0.248	0.248	
				21350	2560.0	1	49	18.7	18.7	0.783	0.783	0.304	0.304	
			Edge 4	21100	2535.0	1	49	18.7	18.7	0.421	0.421	0.182	0.182	
						50	24	17.7	17.7	0.361	0.361	0.153	0.153	

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	23.7	23.7	0.514	0.514	0.382	0.382	29
						25	12	22.7	22.7	0.416	0.416	0.308	0.308	
			Left Tilt	23095	707.5	1	24	23.7	23.7	0.476	0.476	0.289	0.289	
						25	12	22.7	22.7	0.385	0.385	0.235	0.235	
			Right Touch	23095	707.5	1	24	23.7	23.7	0.448	0.448	0.287	0.287	
						25	12	22.7	22.7	0.356	0.356	0.225	0.225	
			Right Tilt	23095	707.5	1	24	23.7	23.7	0.484	0.484	0.292	0.292	
						25	12	22.7	22.7	0.381	0.381	0.233	0.233	
Body-worn & Hotspot	QPSK	5	Rear	23095	707.5	1	24	23.7	23.7	0.459	0.459	0.267	0.267	
						25	12	22.7	22.7	0.331	0.331	0.193	0.193	
			Front	23095	707.5	1	24	23.7	23.7	0.380	0.380	0.218	0.218	
						25	12	22.7	22.7	0.321	0.321	0.179	0.179	
Hotspot	QPSK	5	Edge 1	23095	707.5	1	24	23.7	23.7	0.223	0.223	0.110	0.110	
						25	12	22.7	22.7	0.163	0.163	0.081	0.081	
			Edge 2	23095	707.5	1	24	23.7	23.7	0.366	0.366	0.248	0.248	
						25	12	22.7	22.7	0.282	0.282	0.190	0.190	
			Edge 4	23095	707.5	1	24	23.7	23.7	0.229	0.229	0.147	0.147	
						25	12	22.7	22.7	0.174	0.174	0.111	0.111	

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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	0.294	0.294	0.225	0.225	
						25	12	23.0	23.0	0.233	0.233	0.178	0.178	
			Left Tilt	23095	707.5	1	24	24.0	24.0	0.164	0.164	0.128	0.128	
						25	12	23.0	23.0	0.133	0.133	0.103	0.103	
			Right Touch	23095	707.5	1	24	24.0	24.0	0.324	0.324	0.233	0.233	
						25	12	23.0	23.0	0.258	0.258	0.188	0.188	
			Right Tilt	23095	707.5	1	24	24.0	24.0	0.199	0.199	0.153	0.153	
						25	12	23.0	23.0	0.159	0.159	0.122	0.122	
Body-worn & Hotspot	QPSK	5	Rear	23095	707.5	1	24	24.0	24.0	0.768	0.768	0.484	0.484	30
						25	12	23.0	23.0	0.557	0.557	0.336	0.336	
			Front	23095	707.5	1	24	24.0	24.0	0.688	0.688	0.515	0.515	
						25	12	23.0	23.0	0.521	0.521	0.379	0.379	
Hotspot	QPSK	5	Edge 2	23095	707.5	1	24	24.0	24.0	0.461	0.461	0.296	0.296	
						25	12	23.0	23.0	0.340	0.340	0.221	0.221	
			Edge 3	23095	707.5	1	24	24.0	24.0	0.260	0.260	0.127	0.127	
						25	12	23.0	23.0	0.212	0.212	0.103	0.103	
			Edge 4	23095	707.5	1	24	24.0	24.0	0.597	0.597	0.403	0.403	
						25	12	23.0	23.0	0.458	0.458	0.308	0.308	

10.15. 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	23.7	23.7	0.522	0.522	0.356	0.356	31
						25	12	22.7	22.7	0.452	0.452	0.336	0.336	
			Left Tilt	23790	710.0	1	24	23.7	23.7	0.526	0.526	0.315	0.315	
						25	12	22.7	22.7	0.424	0.424	0.253	0.253	
			Right Touch	23790	710.0	1	24	23.7	23.7	0.455	0.455	0.295	0.295	
						25	12	22.7	22.7	0.361	0.361	0.233	0.233	
			Right Tilt	23790	710.0	1	24	23.7	23.7	0.452	0.452	0.274	0.274	
						25	12	22.7	22.7	0.376	0.376	0.225	0.225	
Body-worn & Hotspot	QPSK	5	Rear	23790	710.0	1	24	23.7	23.7	0.440	0.440	0.256	0.256	
						25	12	22.7	22.7	0.407	0.407	0.237	0.237	
			Front	23790	710.0	1	24	23.7	23.7	0.407	0.407	0.227	0.227	
						25	12	22.7	22.7	0.286	0.286	0.160	0.160	
Hotspot	QPSK	5	Edge 1	23790	710.0	1	24	23.7	23.7	0.254	0.254	0.123	0.123	
						25	12	22.7	22.7	0.226	0.226	0.109	0.109	
			Edge 2	23790	710.0	1	24	23.7	23.7	0.402	0.402	0.270	0.270	
						25	12	22.7	22.7	0.334	0.334	0.225	0.225	
			Edge 4	23790	710.0	1	24	23.7	23.7	0.237	0.237	0.154	0.154	
						25	12	22.7	22.7	0.193	0.193	0.125	0.125	

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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	0.323	0.323	0.245	0.245	
						25	12	23.0	23.0	0.256	0.256	0.194	0.194	
			Left Tilt	23790	710.0	1	24	24.0	24.0	0.170	0.170	0.131	0.131	
						25	12	23.0	23.0	0.131	0.131	0.102	0.102	
			Right Touch	23790	710.0	1	24	24.0	24.0	0.287	0.287	0.211	0.211	
						25	12	23.0	23.0	0.228	0.228	0.169	0.169	
			Right Tilt	23790	710.0	1	24	24.0	24.0	0.174	0.174	0.134	0.134	
						25	12	23.0	23.0	0.139	0.139	0.107	0.107	
Body-worn & Hotspot	QPSK	5	Rear	23790	710.0	1	24	24.0	24.0	0.693	0.693	0.453	0.453	32
						25	12	23.0	23.0	0.547	0.547	0.344	0.344	
			Front	23790	710.0	1	24	24.0	24.0	0.690	0.690	0.512	0.512	
						25	12	23.0	23.0	0.537	0.537	0.401	0.401	
Hotspot	QPSK	5	Edge 2	23790	710.0	1	24	24.0	24.0	0.475	0.475	0.309	0.309	
						25	12	23.0	23.0	0.358	0.358	0.230	0.230	
			Edge 3	23790	710.0	1	24	24.0	24.0	0.266	0.266	0.130	0.130	
						25	12	23.0	23.0	0.200	0.200	0.099	0.099	
			Edge 4	23790	710.0	1	24	24.0	24.0	0.603	0.603	0.408	0.408	
						25	12	23.0	23.0	0.466	0.466	0.315	0.315	

10.16. 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	21.5	21.1	0.504	0.553	0.261	0.286	
						50	24	20.5	20.1	0.426	0.467	0.219	0.240	
			Left Tilt	26365	1882.5	1	49	21.5	21.1	0.571	0.626	0.296	0.325	
						50	24	20.5	20.1	0.459	0.503	0.238	0.261	
			Right Touch	26140	1860.0	1	49	21.5	21.1	0.848	0.930	0.436	0.478	
				26365	1882.5	1	49	21.5	21.1	0.895	0.981	0.457	0.501	
						50	24	20.5	20.1	0.721	0.791	0.363	0.398	
				26590	1905.0	1	49	21.5	21.1	0.853	0.935	0.433	0.475	
			Right Tilt	26365	1882.5	1	49	21.5	21.1	0.685	0.751	0.358	0.393	
						50	24	20.5	20.1	0.589	0.646	0.305	0.334	
Body-worn & Hotspot	QPSK	5	Rear	26140	1860.0	1	49	22.0	22.0	0.987	0.987	0.507	0.507	
				26365	1882.5	1	49	22.0	22.0	0.966	0.966	0.499	0.499	
						50	24	21.0	21.0	0.769	0.769	0.401	0.401	
				26590	1905.0	1	49	22.0	22.0	0.932	0.932	0.476	0.476	
			Front	26365	1882.5	1	49	22.0	22.0	0.629	0.629	0.335	0.335	
						50	24	21.0	21.0	0.479	0.479	0.248	0.248	
Hotspot	QPSK	5	Edge 1	26365	1882.5	1	49	22.0	22.0	0.613	0.613	0.253	0.253	
						50	24	21.0	21.0	0.435	0.435	0.177	0.177	
			Edge 2	26365	1882.5	1	49	22.0	22.0	0.239	0.239	0.121	0.121	
						50	24	21.0	21.0	0.212	0.212	0.108	0.108	
			Edge 4	26365	1882.5	1	49	22.0	22.0	0.609	0.609	0.318	0.318	
						50	24	21.0	21.0	0.562	0.562	0.289	0.289	

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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	22.0	22.0	0.654	0.654	0.423	0.423	
						50	24	21.0	21.0	0.579	0.579	0.375	0.375	
			Left Tilt	26365	1882.5	1	49	22.0	22.0	0.332	0.332	0.197	0.197	
						50	24	21.0	21.0	0.306	0.306	0.182	0.182	
			Right Touch	26140	1860.0	1	49	22.0	22.0	1.140	1.140	0.685	0.685	33
						50	24	21.0	21.0	0.828	0.828	0.498	0.498	
				26365	1882.5	1	49	22.0	22.0	1.140	1.140	0.669	0.669	
						50	24	21.0	21.0	0.865	0.865	0.516	0.516	
						100	0	21.0	21.0	0.867	0.867	0.517	0.517	
				26590	1905.0	1	49	22.0	22.0	1.090	1.090	0.641	0.641	
						50	24	21.0	21.0	0.833	0.833	0.491	0.491	
			Right Tilt	26365	1882.5	1	49	22.0	22.0	0.293	0.293	0.187	0.187	
						50	24	21.0	21.0	0.220	0.220	0.136	0.136	
Body-worn & Hotspot	QPSK	5	Rear	26140	1860.0	1	49	18.7	18.7	1.120	1.120	0.535	0.535	
						50	24	17.7	17.7	1.030	1.030	0.491	0.491	
				26365	1882.5	1	49	18.7	18.7	1.130	1.130	0.541	0.541	34
						50	24	17.7	17.7	1.040	1.040	0.495	0.495	
						100	0	17.7	17.7	1.050	1.050	0.503	0.503	
				26590	1905.0	1	49	18.7	18.7	1.120	1.120	0.525	0.525	
						50	24	17.7	17.7	0.998	0.998	0.470	0.470	
			Front	26365	1882.5	1	49	18.7	18.7	0.722	0.722	0.389	0.389	
Hotspot	QPSK	5	Edge 2	26365	1882.5	1	49	18.7	18.7	0.705	0.705	0.364	0.364	
						50	24	17.7	17.7	0.526	0.526	0.269	0.269	
			Edge 3	26140	1860.0	1	49	18.7	18.7	0.976	0.976	0.472	0.472	
						1	49	18.7	18.7	0.845	0.845	0.404	0.404	
				26365	1882.5	50	24	17.7	17.7	0.798	0.798	0.381	0.381	
						1	49	18.7	18.7	0.882	0.882	0.418	0.418	
			Edge 4	26365	1882.5	1	49	18.7	18.7	0.065	0.065	0.033	0.033	
						50	24	17.7	17.7	0.043	0.043	0.022	0.022	

10.17. 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	26865	831.5	1	24	23.7	23.7	0.687	0.687	0.465	0.465	35
						25	12	22.7	22.7	0.514	0.514	0.323	0.323	
			Left Tilt	26865	831.5	1	24	23.7	23.7	0.523	0.523	0.297	0.297	
						25	12	22.7	22.7	0.399	0.399	0.230	0.230	
			Right Touch	26865	831.5	1	24	23.7	23.7	0.505	0.505	0.317	0.317	
						25	12	22.7	22.7	0.404	0.404	0.252	0.252	
			Right Tilt	26865	831.5	1	24	23.7	23.7	0.413	0.413	0.241	0.241	
						25	12	22.7	22.7	0.315	0.315	0.180	0.180	
Body-worn & Hotspot	QPSK	5	Rear	26865	831.5	1	24	23.7	23.7	0.370	0.370	0.254	0.254	
						25	12	22.7	22.7	0.276	0.276	0.189	0.189	
			Front	26865	831.5	1	24	23.7	23.7	0.270	0.270	0.159	0.159	
						25	12	22.7	22.7	0.229	0.229	0.133	0.133	
Hotspot	QPSK	5	Edge 1	26865	831.5	1	24	23.7	23.7	0.186	0.186	0.088	0.088	
						25	12	22.7	22.7	0.141	0.141	0.066	0.066	
			Edge 2	26865	831.5	1	24	23.7	23.7	0.336	0.336	0.222	0.222	
						25	12	22.7	22.7	0.259	0.259	0.171	0.171	
			Edge 4	26865	831.5	1	24	23.7	23.7	0.102	0.102	0.063	0.063	
						25	12	22.7	22.7	0.074	0.074	0.045	0.045	

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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	26865	831.5	1	24	24.0	24.0	0.558	0.558	0.424	0.424	
						25	12	23.0	23.0	0.446	0.446	0.337	0.337	
			Left Tilt	26865	831.5	1	24	24.0	24.0	0.274	0.274	0.212	0.212	
						25	12	23.0	23.0	0.230	0.230	0.178	0.178	
			Right Touch	26865	831.5	1	24	24.0	24.0	0.579	0.579	0.425	0.425	
						25	12	23.0	23.0	0.450	0.450	0.333	0.333	
			Right Tilt	26865	831.5	1	24	24.0	24.0	0.314	0.314	0.241	0.241	
						25	12	23.0	23.0	0.249	0.249	0.191	0.191	
Body-worn & Hotspot	QPSK	5	Rear	26740	819.0	1	24	24.0	24.0	0.781	0.781	0.537	0.537	
				26865	831.5	1	24	24.0	24.0	0.931	0.931	0.643	0.643	36
				26990	844.0	1	24	24.0	24.0	0.914	0.914	0.616	0.616	
				26865	831.5	1	24	24.0	24.0	0.777	0.777	0.592	0.592	
			Front	26865	831.5	25	12	23.0	23.0	0.620	0.620	0.467	0.467	
				26740	819.0	1	24	24.0	24.0	0.503	0.503	0.326	0.326	
				26865	831.5	1	24	24.0	24.0	0.246	0.246	0.124	0.124	
				26990	844.0	1	24	24.0	24.0	0.809	0.809	0.535	0.535	
Hotspot	QPSK	5	Edge 2	26865	831.5	1	24	24.0	24.0	0.503	0.503	0.326	0.326	
						25	12	23.0	23.0	0.404	0.404	0.261	0.261	
			Edge 3	26865	831.5	1	24	24.0	24.0	0.246	0.246	0.124	0.124	
						25	12	23.0	23.0	0.195	0.195	0.098	0.098	
			Edge 4	26740	819.0	1	24	24.0	24.0	0.828	0.828	0.552	0.552	
				26865	831.5	1	24	24.0	24.0	0.878	0.878	0.582	0.582	
				26990	844.0	1	24	24.0	24.0	0.749	0.749	0.496	0.496	
				26990	844.0	1	24	24.0	24.0	0.809	0.809	0.535	0.535	

10.18. 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	22.0	22.0	0.362	0.362	0.168	0.168	
						50	24	21.0	21.0	0.192	0.192	0.087	0.087	
			Left Tilt	40620	2593.0	1	49	22.0	22.0	0.260	0.260	0.117	0.117	
						50	24	21.0	21.0	0.114	0.114	0.050	0.050	
			Right Touch	39750	2506.0	1	49	22.0	22.0	0.751	0.751	0.320	0.320	
				40185	2549.5	1	49	22.0	22.0	0.832	0.832	0.351	0.351	
				40620	2593.0	1	49	22.0	22.0	0.951	0.951	0.400	0.400	37
						50	24	21.0	21.0	0.634	0.634	0.260	0.260	
				41055	2636.5	1	49	22.0	22.0	0.658	0.658	0.265	0.265	
				41490	2680.0	1	49	22.0	22.0	0.487	0.487	0.207	0.207	
			Right Tilt	40620	2593.0	1	49	22.0	22.0	0.469	0.469	0.194	0.194	
						50	24	21.0	21.0	0.386	0.386	0.157	0.157	
Body-worn & Hotspot	QPSK	5	Rear	39750	2506.0	1	49	21.5	21.5	0.751	0.751	0.307	0.307	
				40185	2549.5	1	49	21.5	21.5	0.924	0.924	0.375	0.375	
				40620	2593.0	1	49	21.5	21.5	0.977	0.977	0.376	0.376	
						50	24	20.5	20.5	0.658	0.658	0.255	0.255	
				41055	2636.5	1	49	21.5	21.5	0.998	0.998	0.380	0.380	
				41490	2680.0	1	49	21.5	21.5	0.637	0.637	0.232	0.232	
			Front	40620	2593.0	1	49	21.5	21.5	0.423	0.423	0.198	0.198	
						50	24	20.5	20.5	0.222	0.222	0.104	0.104	
Hotspot	QPSK	5	Edge 1	40620	2593.0	1	49	21.5	21.5	0.187	0.187	0.083	0.083	
						50	24	20.5	20.5	0.142	0.142	0.064	0.064	
			Edge 2	40620	2593.0	1	49	21.5	21.5	0.043	0.043	0.017	0.017	
						50	24	20.5	20.5	0.037	0.037	0.014	0.014	
			Edge 4	40620	2593.0	1	49	21.5	21.5	0.790	0.790	0.362	0.362	
						50	24	20.5	20.5	0.480	0.480	0.221	0.221	

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	0.300	0.300	0.159	0.159	
						50	24	21.5	21.5	0.226	0.226	0.124	0.124	
			Left Tilt	40620	2593.0	1	49	22.5	22.5	0.131	0.131	0.060	0.060	
						50	24	21.5	21.5	0.107	0.107	0.050	0.050	
			Right Touch	40620	2593.0	1	49	22.5	22.5	0.276	0.276	0.154	0.154	
						50	24	21.5	21.5	0.215	0.215	0.107	0.107	
			Right Tilt	40620	2593.0	1	49	22.5	22.5	0.092	0.092	0.039	0.039	
						50	24	21.5	21.5	0.068	0.068	0.029	0.029	
Body-worn & Hotspot	QPSK	5	Rear	39750	2506.0	1	49	21.0	20.5	1.000	1.122	0.460	0.516	
						50	24	20.0	19.5	0.783	0.879	0.362	0.406	
				40185	2549.5	1	49	21.0	20.5	0.934	1.048	0.409	0.459	
						50	24	20.0	19.5	0.822	0.922	0.322	0.361	
				40620	2593.0	1	49	21.0	20.5	0.911	1.022	0.361	0.405	
						50	24	20.0	19.5	0.755	0.847	0.297	0.333	
						100	0	20.0	19.5	0.668	0.750	0.262	0.294	
				41055	2636.5	1	49	21.0	20.5	1.010	1.133	0.391	0.439	38
						50	24	20.0	19.5	0.798	0.895	0.307	0.344	
			Front	41490	2680.0	1	49	21.0	20.5	0.923	1.036	0.356	0.399	
						50	24	20.0	19.5	0.734	0.824	0.281	0.315	
				39750	2506.0	1	49	21.0	20.5	0.831	0.932	0.347	0.389	
						1	49	21.0	20.5	0.819	0.919	0.353	0.396	
				40620	2593.0	1	49	21.0	20.5	0.774	0.868	0.344	0.386	
						50	24	20.0	19.5	0.599	0.672	0.265	0.297	
						1	49	21.0	20.5	0.579	0.650	0.267	0.300	
				41490	2680.0	1	49	21.0	20.5	0.453	0.508	0.212	0.238	
Hotspot	QPSK	5	Edge 2	40620	2593.0	1	49	21.0	20.5	0.060	0.067	0.026	0.029	
						50	24	20.0	19.5	0.049	0.055	0.021	0.024	
			Edge 3	39750	2506.0	1	49	21.0	20.5	0.937	1.051	0.374	0.420	
				40185	2549.5	1	49	21.0	20.5	0.907	1.018	0.348	0.390	
				40620	2593.0	1	49	21.0	20.5	0.725	0.813	0.279	0.313	
						50	24	20.0	19.5	0.589	0.661	0.224	0.251	
				41055	2636.5	1	49	21.0	20.5	0.504	0.565	0.186	0.209	
				41490	2680.0	1	49	21.0	20.5	0.359	0.403	0.128	0.144	
			Edge 4	40620	2593.0	1	49	21.0	20.5	0.441	0.495	0.188	0.211	
						50	24	20.0	19.5	0.361	0.405	0.155	0.174	

10.19. Wi-Fi (DTS Band)

Cell On

Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
2.4GHz	802.11b	Head	0	Left Touch	6	2437.0	0.168	13.0	13.0					
				Left Tilt	6	2437.0	0.121	13.0	13.0					
				Right Touch	6	2437.0	0.588	13.0	13.0	0.431	0.431	0.192	0.192	
				Right Tilt	6	2437.0	0.388	13.0	13.0	0.249	0.249	0.114	0.114	
		Body-worn & Hotspot & Airplay	5	Rear	6	2437.0	0.694	14.5	14.5	0.424	0.424	0.186	0.186	
				Front	6	2437.0	0.243	14.5	14.5					
				Edge 1	6	2437.0	0.150	14.5	14.5					
				Edge 2	6	2437.0	0.030	14.5	14.5					
				Edge 4	6	2437.0	0.305	14.5	14.5	0.277	0.277	0.133	0.133	

Cell Off

Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
2.4GHz	802.11b	Head	0	Left Touch	6	2437.0	0.394	17.0	16.8					
				Left Tilt	6	2437.0	0.325	17.0	16.8					
				Right Touch	6	2437.0	1.480	17.0	16.8	1.120	1.173	0.506	0.524	
				Right Tilt	11	2462.0		17.0	16.8	1.120	1.173	0.506	0.530	39
		Body-worn & Hotspot & Airplay	5	Right Tilt	6	2437.0	0.883	17.0	16.8	0.626	0.656	0.290	0.304	
				Rear	6	2437.0	1.440	18.5	18.5	0.938	0.938	0.423	0.423	
				Rear	11	2462.0		18.5	18.5	1.090	1.090	0.479	0.479	40
				Front	6	2437.0	0.558	18.5	18.5					
				Edge 1	6	2437.0	0.408	18.5	18.5					
				Edge 2	6	2437.0	0.064	18.5	18.5					
				Edge 4	6	2437.0	0.778	18.5	18.5	0.659	0.659	0.321	0.321	

10.20. Wi-Fi (U-NII Band)

Cell On

Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.2 GHz U-NII 1	802.11ac VHT80	Head	0	Left Touch	42	5210.0	0.356	13.0	13.0					
				Left Tilt	42	5210.0	0.356	13.0	13.0					
				Right Touch	42	5210.0	0.901	13.0	13.0	0.378	0.378	0.087	0.087	
				Right Tilt	42	5210.0	0.504	13.0	13.0					
5.3 GHz U-NII 2A	802.11ac VHT80	Body-worn & Airplay	5	Rear	58	5290.0	0.683	13.0	13.0	0.369	0.369	0.097	0.097	
				Front	58	5290.0	0.401	13.0	13.0					
				Edge 1	58	5290.0	0.119	13.0	13.0					
				Edge 4	58	5290.0	0.072	13.0	13.0					
Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.5 GHz U-NII 2C	802.11ac VHT80	Head	0	Left Touch	122	5610.0	0.437	12.0	11.7					
				Left Tilt	122	5610.0	0.336	12.0	11.7					
				Right Touch	122	5610.0	0.625	12.0	11.7	0.329	0.353	0.071	0.076	
				Right Tilt	122	5610.0	0.467	12.0	11.7					
		Body-worn & Airplay	5	Rear	122	5610.0	0.704	12.5	12.5	0.394	0.394	0.110	0.110	
				Front	122	5610.0	0.214	12.5	12.5					
				Edge 1	122	5610.0	0.107	12.5	12.5					
				Edge 4	122	5610.0	0.048	12.5	12.5					
Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.8 GHz U-NII 3	802.11ac VHT80	Head	0	Left Touch	155	5775.0	0.336	12.0	12.0					
				Left Tilt	155	5775.0	0.383	12.0	12.0					
				Right Touch	155	5775.0	0.810	12.0	12.0	0.399	0.399	0.085	0.085	
				Right Tilt	155	5775.0	0.737	12.0	12.0					
		Body-worn & Airplay	5	Rear	155	5775.0	0.655	12.0	12.0	0.364	0.364	0.095	0.095	
				Front	155	5775.0	0.260	12.0	12.0					
				Edge 1	155	5775.0	0.072	12.0	12.0					
				Edge 4	155	5775.0	0.034	12.0	12.0					

Cell Off

Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.2 GHz U-NII 1	802.11n HT40	Head	0	Left Touch	46	5230.0	0.774	18.0	18.0					
				Left Tilt	46	5230.0	1.090	18.0	18.0	0.553	0.553	0.153	0.153	
				Right Touch	38	5190.0		16.0	16.0	0.604	0.604	0.147	0.147	
					46	5230.0	1.720	18.0	18.0	1.100	1.100	0.233	0.233	41
				Right Tilt	38	5190.0		16.0	16.0	0.601	0.601	0.154	0.154	
					46	5230.0	1.980	18.0	18.0	0.925	0.925	0.232	0.232	
5.3 GHz U-NII 2A	802.11n HT40	Body-worn & Airplay	5	Rear	54	5270.0	1.450	17.5	17.5	1.140	1.140	0.296	0.296	42
					62	5310.0		16.0	16.0	0.773	0.773	0.193	0.193	
				Front	54	5270.0	0.673	17.5	17.5	0.388	0.388	0.117	0.117	
				Edge 1	54	5270.0	0.233	17.5	17.5					
				Edge 4	54	5270.0	0.167	17.5	17.5					
Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.5 GHz U-NII 2C	802.11ac VHT80	Head	0	Left Touch	122	5610.0	1.160	16.5	16.5	0.580	0.580	0.175	0.175	
				Left Tilt	122	5610.0	1.000	16.5	16.5					
				Right Touch	122	5610.0	2.200	16.5	16.5	1.040	1.040	0.239	0.239	
					138	5690.0		16.5	16.5	1.070	1.070	0.248	0.248	43
				Right Tilt	122	5610.0	1.720	16.5	16.5	1.070	1.070	0.238	0.238	
					138	5690.0		16.5	16.5	0.935	0.935	0.213	0.213	
		Body-worn & Airplay	5	Rear	122	5610.0	1.990	17.0	17.0	0.995	0.995	0.292	0.292	
					138	5690.0		17.0	17.0	1.100	1.100	0.312	0.312	44
				Front	122	5610.0	0.876	17.0	17.0	0.404	0.404	0.110	0.110	
				Edge 1	122	5610.0	0.283	17.0	17.0					
				Edge 4	122	5610.0	0.128	17.0	17.0					
Frequency Band	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
5.8 GHz U-NII 3	802.11n HT40	Head	0	Left Touch	159	5795.0	1.030	16.5	16.5					
				Left Tilt	159	5795.0	1.100	16.5	16.5	0.684	0.684	0.168	0.168	
				Right Touch	151	5755.0		15.5	15.5	0.967	0.967	0.213	0.213	
					159	5795.0	1.790	16.5	16.5	1.020	1.020	0.232	0.232	
				Right Tilt	151	5755.0		15.5	15.5	0.745	0.745	0.165	0.165	
					159	5795.0	1.890	16.5	16.5	1.160	1.160	0.253	0.253	45
		Body-worn & Airplay	5	Rear	151	5755.0		15.5	15.5	0.787	0.787	0.200	0.200	
					159	5795.0	1.460	17.0	17.0	1.170	1.170	0.317	0.317	46
				Front	159	5795.0	0.805	17.0	17.0	0.507	0.507	0.129	0.129	
				Edge 1	159	5795.0	0.427	17.0	17.0					
				Edge 4	159	5795.0	0.190	17.0	17.0					

10.21. Wi-Fi Variant 2 Spotcheck

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	Head	802.11b 1Mbps	0	Right Touch	11	2462	17.0	16.8	1.070	1.120	0.469	0.491	
	Body & Hotspot	802.11b 1Mbps	5	Rear	11	2462	18.5	18.5	1.020	1.020	0.436	0.436	
5.2	Head	802.11n HT40	0	Right Touch	46	5230	18.0	17.6	0.954	1.046	0.220	0.241	
5.3	Body & Airplay	802.11n HT40	5	Rear	54	5270	17.5	17.5	1.130	1.130	0.313	0.313	
5.5	Head	802.11ac VHT80	0	Right Touch	138	5690	16.5	16.5	1.020	1.020	0.234	0.234	
	Body & Airplay	802.11ac VHT80	5	Rear	138	5690	17.0	17.0	1.080	1.080	0.308	0.308	
5.8	Head	802.11n HT40	0	Right Tilt	159	5795	16.5	16.5	1.080	1.080	0.241	0.241	
	Body & Airplay	802.11n HT40	5	Rear	159	5795	17.0	17.0	1.140	1.140	0.308	0.308	

10.22. Bluetooth

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	11.5	11.5	0.006	0.006	0.002	0.002	
				Left Tilt	39	2441.0	11.5	11.5	<0.001	<0.001	<0.001	<0.001	
				Right Touch	39	2441.0	11.5	11.5	0.047	0.047	0.019	0.019	47
				Right Tilt	39	2441.0	11.5	11.5	0.025	0.025	0.009	0.009	
	Body-worn	GFSK	5	Rear	39	2441.0	11.5	11.5	0.043	0.043	0.017	0.017	48
				Front	39	2441.0	11.5	11.5	0.025	0.025	0.010	0.010	

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 <0.8 or 2 W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.8 or 2 W/kg (1-g or 10-g respectively), 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 3 (1-g or 10-g respectively) or when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg ($\sim 10\%$ from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 or 3 (1-g or 10-g respectively).

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
700	LTE Band 12	Body & Hotspot	Rear	No	0.768	N/A	N/A
	LTE Band 17	Body & Hotspot	Rear	No	0.693	N/A	N/A
850	GSM 850	Body & Hotspot	Rear	Yes	1.120	1.110	1.01
	CDMA BC0	Hotspot	Edge 4	No	1.040	N/A	N/A
	CDMA BC10	Hotspot	Edge 4	No	0.994	N/A	N/A
	WCDMA Band V	Body & Hotspot	Rear	No	1.060	N/A	N/A
	LTE Band 5	Body & Hotspot	Rear	No	1.020	N/A	N/A
	LTE Band 26	Body & Hotspot	Rear	No	1.010	N/A	N/A
1900	GSM 1900	Body & Hotspot	Rear	No	1.120	N/A	N/A
	CDMA BC1	Body & Hotspot	Rear	No	1.140	N/A	N/A
	WCDMA Band II	Head	Right Touch	No	1.110	N/A	N/A
	LTE Band 2	Head	Right Touch	Yes	1.140	1.130	1.01
	LTE Band 25	Head	Right Touch	No	1.140	N/A	N/A
1700	LTE Band 4	Head	Right Touch	No	1.120	N/A	N/A
	WCDMA Band IV	Body & Hotspot	Rear	No	1.130	N/A	N/A
	CDMA BC15	Head	Right Touch	Yes	1.140	1.140	1.00
2400	Wi-Fi 802.11b/g/n	Head	Right Touch	Yes	1.12	1.11	1.01
	BT	Head	Right Touch	No	0.047	N/A	N/A
2600	LTE Band 7	Body & Hotspot	Rear	Yes	1.110	1.050	1.06
	LTE Band 41	Body & Hotspot	Rear	No	1.010	N/A	N/A
5200	Wi-Fi 802.11a/n/ac	Head	Right Touch	Yes	1.100	0.974	1.13
5300	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.14	1.05	1.09
5500	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.10	1.04	1.06
5800	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.17	1.01	1.16

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 or 3 (1-g or 10-g respectively).

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:

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

Simultaneous Transmission Condition

RF Exposure Condition	Item	Capable Transmit Configurations			
Head Body-worn Accessory Hotspot Airplay	1	WWAN	+	DTS	
	2	WWAN	+	U-NII	
	3	WWAN	+	Bluetooth	
	4	WWAN	+	U-NII	+ Bluetooth
	5			U-NII	+ Bluetooth
Notes:					
1. Only DTS supports Hotspot.					
2. GPRS/EDGE, W-CDMA, CDMA and LTE support Hotspot.					
3. VoIP is supported in GPRS/EDGE, W-CDMA, CDMA and LTE.					
4. DTS Radio cannot transmit simultaneously with Bluetooth Radio.					

12.1. Sum of the SAR for GSM850 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.835	0.431	0.399	0.006	1.266	1.234	0.841	1.240
	Left Tilt	0.672	0.431	0.399	0.001	1.103	1.071	0.673	1.072
	Right Touch	0.612	0.431	0.399	0.047	1.043	1.011	0.659	1.058
	Right Tilt	0.495	0.249	0.399	0.025	0.744	0.894	0.520	0.919
Body-worn & Hotspot & Airplay	Rear	0.368	0.424	0.394	0.043	0.792	0.762	0.411	0.805
	Front	0.274	0.424	0.394	0.025	0.698	0.668	0.299	0.693
Hotspot & Airplay	Edge 1	0.212	0.424	0.394	N/A	0.636	0.606		
	Edge 2	0.482	0.424	0.394	N/A	0.906	0.876		
	Edge 4	0.221	0.277	0.394	N/A	0.498	0.615		

12.2. Sum of the SAR for GSM850 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.660	0.431	0.399	0.006	1.091	1.059	0.666	1.065
	Left Tilt	0.358	0.431	0.399	0.001	0.789	0.757	0.359	0.758
	Right Touch	0.539	0.431	0.399	0.047	0.970	0.938	0.586	0.985
	Right Tilt	0.340	0.249	0.399	0.025	0.589	0.739	0.365	0.764
Body-worn & Hotspot & Airplay	Rear	1.120	0.424	0.394	0.043	1.544	1.514	1.163	1.557
	Front	0.957	0.424	0.394	0.025	1.381	1.351	0.982	1.376
Hotspot & Airplay	Edge 2	0.629	0.424	0.394	N/A	1.053	1.023		
	Edge 3	0.274	0.424	0.394	N/A	0.698	0.668		
	Edge 4	1.040	0.277	0.394	N/A	1.317	1.434		

12.3. Sum of the SAR for GSM1900 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.484	0.431	0.399	0.006	0.915	0.883	0.490	0.889
	Left Tilt	0.585	0.431	0.399	0.001	1.016	0.984	0.586	0.985
	Right Touch	0.798	0.431	0.399	0.047	1.229	1.197	0.845	1.244
	Right Tilt	0.789	0.249	0.399	0.025	1.038	1.188	0.814	1.213
Body-worn & Hotspot & Airplay	Rear	0.744	0.424	0.394	0.043	1.168	1.138	0.787	1.181
	Front	0.619	0.424	0.394	0.025	1.043	1.013	0.644	1.038
Hotspot & Airplay	Edge 1	0.355	0.424	0.394	N/A	0.779	0.749		
	Edge 2	0.162	0.424	0.394	N/A	0.586	0.556		
	Edge 4	0.399	0.277	0.394	N/A	0.676	0.793		

12.4. Sum of the SAR for GSM1900 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.684	0.431	0.399	0.006	1.115	1.083	0.690	1.089
	Left Tilt	0.326	0.431	0.399	0.001	0.757	0.725	0.327	0.726
	Right Touch	1.010	0.431	0.399	0.047	1.441	1.409	1.057	1.456
	Right Tilt	0.379	0.249	0.399	0.025	0.628	0.778	0.404	0.803
Body-worn & Hotspot & Airplay	Rear	1.120	0.424	0.394	0.043	1.544	1.514	1.163	1.557
	Front	0.965	0.424	0.394	0.025	1.389	1.359	0.990	1.384
Hotspot & Airplay	Edge 2	0.728	0.424	0.394	N/A	1.152	1.122		
	Edge 3	1.100	0.424	0.394	N/A	1.524	1.494		
	Edge 4	0.051	0.277	0.394	N/A	0.328	0.445		

12.5. Sum of the SAR for WCDMA Band V (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.737	0.431	0.399	0.006	1.168	1.136	0.743	1.142
	Left Tilt	0.519	0.431	0.399	0.001	0.950	0.918	0.520	0.919
	Right Touch	0.235	0.431	0.399	0.047	0.666	0.634	0.282	0.681
	Right Tilt	0.171	0.249	0.399	0.025	0.420	0.570	0.196	0.595
Body-worn & Hotspot & Airplay	Rear	0.313	0.424	0.394	0.043	0.737	0.707	0.356	0.750
	Front	0.318	0.424	0.394	0.025	0.742	0.712	0.343	0.737
Hotspot & Airplay	Edge 1	0.168	0.424	0.394	N/A	0.592	0.562		
	Edge 2	0.410	0.424	0.394	N/A	0.834	0.804		
	Edge 4	0.203	0.277	0.394	N/A	0.480	0.597		

12.6. Sum of the SAR for WCDMA Band V (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.623	0.431	0.399	0.006	1.054	1.022	0.629	1.028
	Left Tilt	0.388	0.431	0.399	0.001	0.819	0.787	0.389	0.788
	Right Touch	0.594	0.431	0.399	0.047	1.025	0.993	0.641	1.040
	Right Tilt	0.397	0.249	0.399	0.025	0.646	0.796	0.422	0.821
Body-worn & Hotspot & Airplay	Rear	1.136	0.424	0.394	0.043	1.560	1.530	1.179	1.573
	Front	1.055	0.424	0.394	0.025	1.479	1.449	1.080	1.474
Hotspot & Airplay	Edge 2	0.745	0.424	0.394	N/A	1.169	1.139		
	Edge 3	0.298	0.424	0.394	N/A	0.722	0.692		
	Edge 4	1.050	0.277	0.394	N/A	1.327	1.444		

12.7. Sum of the SAR for WCDMA Band IV (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.611	0.431	0.399	0.006	1.042	1.010	0.617	1.016
	Left Tilt	0.607	0.431	0.399	0.001	1.038	1.006	0.608	1.007
	Right Touch	0.988	0.431	0.399	0.047	1.419	1.387	1.035	1.434
	Right Tilt	0.733	0.249	0.399	0.025	0.982	1.132	0.758	1.157
Body-worn & Hotspot & Airplay	Rear	0.964	0.424	0.394	0.043	1.388	1.358	1.007	1.401
	Front	0.605	0.424	0.394	0.025	1.029	0.999	0.630	1.024
Hotspot & Airplay	Edge 1	0.456	0.424	0.394	N/A	0.880	0.850		
	Edge 2	0.145	0.424	0.394	N/A	0.569	0.539		
	Edge 4	0.512	0.277	0.394	N/A	0.789	0.906		

12.8. Sum of the SAR for WCDMA Band IV (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.691	0.431	0.399	0.006	1.122	1.090	0.697	1.096
	Left Tilt	0.278	0.431	0.399	0.001	0.709	0.677	0.279	0.678
	Right Touch	1.100	0.431	0.399	0.047	1.531	1.499	1.147	1.546
	Right Tilt	0.294	0.249	0.399	0.025	0.543	0.693	0.319	0.718
Body-worn & Hotspot & Airplay	Rear	1.130	0.424	0.394	0.043	1.554	1.524	1.173	1.567
	Front	0.878	0.424	0.394	0.025	1.302	1.272	0.903	1.297
Hotspot & Airplay	Edge 2	0.581	0.424	0.394	N/A	1.005	0.975		
	Edge 3	0.769	0.424	0.394	N/A	1.193	1.163		
	Edge 4	0.048	0.277	0.394	N/A	0.325	0.442		

12.9. Sum of the SAR for WCDMA Band II (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.542	0.431	0.399	0.006	0.973	0.941	0.548	0.947
	Left Tilt	0.621	0.431	0.399	0.001	1.052	1.020	0.622	1.021
	Right Touch	0.983	0.431	0.399	0.047	1.414	1.382	1.030	1.429
	Right Tilt	0.762	0.249	0.399	0.025	1.011	1.161	0.787	1.186
Body-worn & Hotspot & Airplay	Rear	0.999	0.424	0.394	0.043	1.423	1.393	1.042	1.436
	Front	0.693	0.424	0.394	0.025	1.117	1.087	0.718	1.112
Hotspot & Airplay	Edge 1	0.632	0.424	0.394	N/A	1.056	1.026		
	Edge 2	0.162	0.424	0.394	N/A	0.586	0.556		
	Edge 4	0.538	0.277	0.394	N/A	0.815	0.932		

12.10. Sum of the SAR for WCDMA Band II (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.867	0.431	0.399	0.006	1.298	1.266	0.873	1.272
	Left Tilt	0.521	0.431	0.399	0.001	0.952	0.920	0.522	0.921
	Right Touch	1.136	0.431	0.399	0.047	1.567	1.535	1.183	1.582
	Right Tilt	0.491	0.249	0.399	0.025	0.740	0.890	0.516	0.915
Body-worn & Hotspot & Airplay	Rear	1.125	0.424	0.394	0.043	1.549	1.519	1.168	1.562
	Front	0.636	0.424	0.394	0.025	1.060	1.030	0.661	1.055
Hotspot & Airplay	Edge 2	0.568	0.424	0.394	N/A	0.992	0.962		
	Edge 3	0.673	0.424	0.394	N/A	1.097	1.067		
	Edge 4	0.103	0.277	0.394	N/A	0.380	0.497		

12.11. Sum of the SAR for CDMA BC0 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.909	0.431	0.399	0.006	1.340	1.308	0.915	1.314
	Left Tilt	0.625	0.431	0.399	0.001	1.056	1.024	0.626	1.025
	Right Touch	0.671	0.431	0.399	0.047	1.102	1.070	0.718	1.117
	Right Tilt	0.522	0.249	0.399	0.025	0.771	0.921	0.547	0.946
Body-worn & Hotspot & Airplay	Rear	0.507	0.424	0.394	0.043	0.931	0.901	0.550	0.944
	Front	0.364	0.424	0.394	0.025	0.788	0.758	0.389	0.783
Hotspot & Airplay	Edge 1	0.247	0.424	0.394	N/A	0.671	0.641		
	Edge 2	0.669	0.424	0.394	N/A	1.093	1.063		
	Edge 4	0.299	0.277	0.394	N/A	0.576	0.693		

12.12. Sum of the SAR for CDMA BC0 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.738	0.431	0.399	0.006	1.169	1.137	0.744	1.143
	Left Tilt	0.474	0.431	0.399	0.001	0.905	0.873	0.475	0.874
	Right Touch	0.649	0.431	0.399	0.047	1.080	1.048	0.696	1.095
	Right Tilt	0.498	0.249	0.399	0.025	0.747	0.897	0.523	0.922
Body-worn & Hotspot & Airplay	Rear	1.104	0.424	0.394	0.043	1.528	1.498	1.147	1.541
	Front	0.956	0.424	0.394	0.025	1.380	1.350	0.981	1.375
Hotspot & Airplay	Edge 2	0.745	0.424	0.394	N/A	1.169	1.139		
	Edge 3	0.278	0.424	0.394	N/A	0.702	0.672		
	Edge 4	1.114	0.277	0.394	N/A	1.391	1.508		

12.13. Sum of the SAR for CDMA BC1 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.636	0.431	0.399	0.006	1.067	1.035	0.642	1.041
	Left Tilt	0.669	0.431	0.399	0.001	1.100	1.068	0.670	1.069
	Right Touch	0.974	0.431	0.399	0.047	1.405	1.373	1.021	1.420
	Right Tilt	0.887	0.249	0.399	0.025	1.136	1.286	0.912	1.311
Body-worn & Hotspot & Airplay	Rear	0.965	0.424	0.394	0.043	1.389	1.359	1.008	1.402
	Front	0.697	0.424	0.394	0.025	1.121	1.091	0.722	1.116
Hotspot & Airplay	Edge 1	0.711	0.424	0.394	N/A	1.135	1.105		
	Edge 2	0.138	0.424	0.394	N/A	0.562	0.532		
	Edge 4	0.466	0.277	0.394	N/A	0.743	0.860		

12.14. Sum of the SAR for CDMA BC1 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.653	0.431	0.399	0.006	1.084	1.052	0.659	1.058
	Left Tilt	0.482	0.431	0.399	0.001	0.913	0.881	0.483	0.882
	Right Touch	1.114	0.431	0.399	0.047	1.545	1.513	1.161	1.560
	Right Tilt	0.522	0.249	0.399	0.025	0.771	0.921	0.547	0.946
Body-worn & Hotspot & Airplay	Rear	1.140	0.424	0.394	0.043	1.564	1.534	1.183	1.577
	Front	0.639	0.424	0.394	0.025	1.063	1.033	0.664	1.058
Hotspot & Airplay	Edge 2	0.569	0.424	0.394	N/A	0.993	0.963		
	Edge 3	0.882	0.424	0.394	N/A	1.306	1.276		
	Edge 4	0.084	0.277	0.394	N/A	0.361	0.478		

12.15. Sum of the SAR for CDMA BC10 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.759	0.431	0.399	0.006	1.190	1.158	0.765	1.164
	Left Tilt	0.557	0.431	0.399	0.001	0.988	0.956	0.558	0.957
	Right Touch	0.558	0.431	0.399	0.047	0.989	0.957	0.605	1.004
	Right Tilt	0.504	0.249	0.399	0.025	0.753	0.903	0.529	0.928
Body-worn & Hotspot & Airplay	Rear	0.419	0.424	0.394	0.043	0.843	0.813	0.462	0.856
	Front	0.362	0.424	0.394	0.025	0.786	0.756	0.387	0.781
Hotspot & Airplay	Edge 1	0.221	0.424	0.394	N/A	0.645	0.615		
	Edge 2	0.592	0.424	0.394	N/A	1.016	0.986		
	Edge 4	0.286	0.277	0.394	N/A	0.563	0.680		

12.16. Sum of the SAR for CDMA BC10 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.763	0.431	0.399	0.006	1.194	1.162	0.769	1.168
	Left Tilt	0.546	0.431	0.399	0.001	0.977	0.945	0.547	0.946
	Right Touch	0.609	0.431	0.399	0.047	1.040	1.008	0.656	1.055
	Right Tilt	0.474	0.249	0.399	0.025	0.723	0.873	0.499	0.898
Body-worn & Hotspot & Airplay	Rear	0.995	0.424	0.394	0.043	1.419	1.389	1.038	1.432
	Front	0.849	0.424	0.394	0.025	1.273	1.243	0.874	1.268
Hotspot & Airplay	Edge 2	0.729	0.424	0.394	N/A	1.153	1.123		
	Edge 3	0.227	0.424	0.394	N/A	0.651	0.621		
	Edge 4	1.065	0.277	0.394	N/A	1.342	1.459		

12.17. Sum of the SAR for CDMA BC15 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.613	0.431	0.399	0.006	1.044	1.012	0.619	1.018
	Left Tilt	0.615	0.431	0.399	0.001	1.046	1.014	0.616	1.015
	Right Touch	0.995	0.431	0.399	0.047	1.426	1.394	1.042	1.441
	Right Tilt	0.685	0.249	0.399	0.025	0.934	1.084	0.710	1.109
Body-worn & Hotspot & Airplay	Rear	0.973	0.424	0.394	0.043	1.397	1.367	1.016	1.410
	Front	0.560	0.424	0.394	0.025	0.984	0.954	0.585	0.979
Hotspot & Airplay	Edge 1	0.540	0.424	0.394	N/A	0.964	0.934		
	Edge 2	0.142	0.424	0.394	N/A	0.566	0.536		
	Edge 4	0.529	0.277	0.394	N/A	0.806	0.923		

12.18. Sum of the SAR for CDMA BC15 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.714	0.431	0.399	0.006	1.145	1.113	0.720	1.119
	Left Tilt	0.302	0.431	0.399	0.001	0.733	0.701	0.303	0.702
	Right Touch	1.140	0.431	0.399	0.047	1.571	1.539	1.187	1.586
	Right Tilt	0.369	0.249	0.399	0.025	0.618	0.768	0.394	0.793
Body-worn & Hotspot & Airplay	Rear	1.080	0.424	0.394	0.043	1.504	1.474	1.123	1.517
	Front	0.795	0.424	0.394	0.025	1.219	1.189	0.820	1.214
Hotspot & Airplay	Edge 2	0.588	0.424	0.394	N/A	1.012	0.982		
	Edge 3	0.977	0.424	0.394	N/A	1.401	1.371		
	Edge 4	0.043	0.277	0.394	N/A	0.320	0.437		

12.19. Sum of the SAR for LTE Band 2 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.510	0.431	0.399	0.006	0.941	0.909	0.516	0.915
	Left Tilt	0.614	0.431	0.399	0.001	1.045	1.013	0.615	1.014
	Right Touch	0.889	0.431	0.399	0.047	1.320	1.288	0.936	1.335
	Right Tilt	0.818	0.249	0.399	0.025	1.067	1.217	0.843	1.242
Body-worn & Hotspot & Airplay	Rear	0.992	0.424	0.394	0.043	1.416	1.386	1.035	1.429
	Front	0.610	0.424	0.394	0.025	1.034	1.004	0.635	1.029
Hotspot & Airplay	Edge 1	0.562	0.424	0.394	N/A	0.986	0.956		
	Edge 2	0.344	0.424	0.394	N/A	0.768	0.738		
	Edge 4	0.735	0.277	0.394	N/A	1.012	1.129		

12.20. Sum of the SAR for LTE Band 2 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.949	0.431	0.399	0.006	1.380	1.348	0.955	1.354
	Left Tilt	0.377	0.431	0.399	0.001	0.808	0.776	0.378	0.777
	Right Touch	1.140	0.431	0.399	0.047	1.571	1.539	1.187	1.586
	Right Tilt	0.318	0.249	0.399	0.025	0.567	0.717	0.343	0.742
Body-worn & Hotspot & Airplay	Rear	1.130	0.424	0.394	0.043	1.554	1.524	1.173	1.567
	Front	0.703	0.424	0.394	0.025	1.127	1.097	0.728	1.122
Hotspot & Airplay	Edge 2	0.626	0.424	0.394	N/A	1.050	1.020		
	Edge 3	0.720	0.424	0.394	N/A	1.144	1.114		
	Edge 4	0.065	0.277	0.394	N/A	0.342	0.459		

12.21. Sum of the SAR for LTE Band 4 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.733	0.431	0.399	0.006	1.164	1.132	0.739	1.138
	Left Tilt	0.715	0.431	0.399	0.001	1.146	1.114	0.716	1.115
	Right Touch	0.989	0.431	0.399	0.047	1.420	1.388	1.036	1.435
	Right Tilt	0.903	0.249	0.399	0.025	1.152	1.302	0.928	1.327
Body-worn & Hotspot & Airplay	Rear	0.923	0.424	0.394	0.043	1.347	1.317	0.966	1.360
	Front	0.471	0.424	0.394	0.025	0.895	0.865	0.496	0.890
Hotspot & Airplay	Edge 1	0.408	0.424	0.394	N/A	0.832	0.802		
	Edge 2	0.101	0.424	0.394	N/A	0.525	0.495		
	Edge 4	0.441	0.277	0.394	N/A	0.718	0.835		

12.22. Sum of the SAR for LTE Band 4 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.649	0.431	0.399	0.006	1.080	1.048	0.655	1.054
	Left Tilt	0.312	0.431	0.399	0.001	0.743	0.711	0.313	0.712
	Right Touch	1.120	0.431	0.399	0.047	1.551	1.519	1.167	1.566
	Right Tilt	0.303	0.249	0.399	0.025	0.552	0.702	0.328	0.727
Body-worn & Hotspot & Airplay	Rear	1.110	0.424	0.394	0.043	1.534	1.504	1.153	1.547
	Front	0.888	0.424	0.394	0.025	1.312	1.282	0.913	1.307
Hotspot & Airplay	Edge 2	0.563	0.424	0.394	N/A	0.987	0.957		
	Edge 3	0.737	0.424	0.394	N/A	1.161	1.131		
	Edge 4	0.046	0.277	0.394	N/A	0.323	0.440		

12.23. Sum of the SAR for LTE Band 5 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.626	0.431	0.399	0.006	1.057	1.025	0.632	1.031
	Left Tilt	0.443	0.431	0.399	0.001	0.874	0.842	0.444	0.843
	Right Touch	0.509	0.431	0.399	0.047	0.940	0.908	0.556	0.955
	Right Tilt	0.380	0.249	0.399	0.025	0.629	0.779	0.405	0.804
Body-worn & Hotspot & Airplay	Rear	0.385	0.424	0.394	0.043	0.809	0.779	0.428	0.822
	Front	0.299	0.424	0.394	0.025	0.723	0.693	0.324	0.718
Hotspot & Airplay	Edge 1	0.226	0.424	0.394	N/A	0.650	0.620		
	Edge 2	0.310	0.424	0.394	N/A	0.734	0.704		
	Edge 4	0.125	0.277	0.394	N/A	0.402	0.519		

12.24. Sum of the SAR for LTE Band 5 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.538	0.431	0.399	0.006	0.969	0.937	0.544	0.943
	Left Tilt	0.302	0.431	0.399	0.001	0.733	0.701	0.303	0.702
	Right Touch	0.501	0.431	0.399	0.047	0.932	0.900	0.548	0.947
	Right Tilt	0.251	0.249	0.399	0.025	0.500	0.650	0.276	0.675
Body-worn & Hotspot & Airplay	Rear	1.020	0.424	0.394	0.043	1.444	1.414	1.063	1.457
	Front	0.705	0.424	0.394	0.025	1.129	1.099	0.730	1.124
Hotspot & Airplay	Edge 2	0.478	0.424	0.394	N/A	0.902	0.872		
	Edge 3	0.235	0.424	0.394	N/A	0.659	0.629		
	Edge 4	0.747	0.277	0.394	N/A	1.024	1.141		

12.25. Sum of the SAR for LTE Band 7 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.288	0.431	0.399	0.006	0.719	0.687	0.294	0.693
	Left Tilt	0.189	0.431	0.399	0.001	0.620	0.588	0.190	0.589
	Right Touch	0.965	0.431	0.399	0.047	1.396	1.364	1.012	1.411
	Right Tilt	0.602	0.249	0.399	0.025	0.851	1.001	0.627	1.026
Body-worn & Hotspot & Airplay	Rear	0.942	0.424	0.394	0.043	1.366	1.336	0.985	1.379
	Front	0.295	0.424	0.394	0.025	0.719	0.689	0.320	0.714
Hotspot & Airplay	Edge 1	0.178	0.424	0.394	N/A	0.602	0.572		
	Edge 2	0.033	0.424	0.394	N/A	0.457	0.427		
	Edge 4	0.600	0.277	0.394	N/A	0.877	0.994		

12.26. Sum of the SAR for LTE Band 7 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.906	0.431	0.399	0.006	1.337	1.305	0.912	1.311
	Left Tilt	0.346	0.431	0.399	0.001	0.777	0.745	0.347	0.746
	Right Touch	0.481	0.431	0.399	0.047	0.912	0.880	0.528	0.927
	Right Tilt	0.252	0.249	0.399	0.025	0.501	0.651	0.277	0.676
Body-worn & Hotspot & Airplay	Rear	1.110	0.424	0.394	0.043	1.534	1.504	1.153	1.547
	Front	1.100	0.424	0.394	0.025	1.524	1.494	1.125	1.519
Hotspot & Airplay	Edge 2	0.055	0.424	0.394	N/A	0.479	0.449		
	Edge 3	0.793	0.424	0.394	N/A	1.217	1.187		
	Edge 4	0.421	0.277	0.394	N/A	0.698	0.815		

12.27. Sum of the SAR for LTE Band 12 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.514	0.431	0.399	0.006	0.945	0.913	0.520	0.919
	Left Tilt	0.476	0.431	0.399	0.001	0.907	0.875	0.477	0.876
	Right Touch	0.448	0.431	0.399	0.047	0.879	0.847	0.495	0.894
	Right Tilt	0.484	0.249	0.399	0.025	0.733	0.883	0.509	0.908
Body-worn & Hotspot & Airplay	Rear	0.459	0.424	0.394	0.043	0.883	0.853	0.502	0.896
	Front	0.380	0.424	0.394	0.025	0.804	0.774	0.405	0.799
Hotspot & Airplay	Edge 1	0.223	0.424	0.394	N/A	0.647	0.617		
	Edge 2	0.366	0.424	0.394	N/A	0.790	0.760		
	Edge 4	0.229	0.277	0.394	N/A	0.506	0.623		

12.28. Sum of the SAR for LTE Band 12 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.294	0.431	0.399	0.006	0.725	0.693	0.300	0.699
	Left Tilt	0.164	0.431	0.399	0.001	0.595	0.563	0.165	0.564
	Right Touch	0.324	0.431	0.399	0.047	0.755	0.723	0.371	0.770
	Right Tilt	0.199	0.249	0.399	0.025	0.448	0.598	0.224	0.623
Body-worn & Hotspot & Airplay	Rear	0.768	0.424	0.394	0.043	1.192	1.162	0.811	1.205
	Front	0.688	0.424	0.394	0.025	1.112	1.082	0.713	1.107
Hotspot & Airplay	Edge 2	0.461	0.424	0.394	N/A	0.885	0.855		
	Edge 3	0.260	0.424	0.394	N/A	0.684	0.654		
	Edge 4	0.597	0.277	0.394	N/A	0.874	0.991		

12.29. Sum of the SAR for LTE Band 17 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.522	0.431	0.399	0.006	0.953	0.921	0.528	0.927
	Left Tilt	0.526	0.431	0.399	0.001	0.957	0.925	0.527	0.926
	Right Touch	0.455	0.431	0.399	0.047	0.886	0.854	0.502	0.901
	Right Tilt	0.452	0.249	0.399	0.025	0.701	0.851	0.477	0.876
Body-worn & Hotspot & Airplay	Rear	0.440	0.424	0.394	0.043	0.864	0.834	0.483	0.877
	Front	0.407	0.424	0.394	0.025	0.831	0.801	0.432	0.826
Hotspot & Airplay	Edge 1	0.254	0.424	0.394	N/A	0.678	0.648		
	Edge 2	0.402	0.424	0.394	N/A	0.826	0.796		
	Edge 4	0.237	0.277	0.394	N/A	0.514	0.631		

12.30. Sum of the SAR for LTE Band 17 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.323	0.431	0.399	0.006	0.754	0.722	0.329	0.728
	Left Tilt	0.170	0.431	0.399	0.001	0.601	0.569	0.171	0.570
	Right Touch	0.287	0.431	0.399	0.047	0.718	0.686	0.334	0.733
	Right Tilt	0.174	0.249	0.399	0.025	0.423	0.573	0.199	0.598
Body-worn & Hotspot & Airplay	Rear	0.693	0.424	0.394	0.043	1.117	1.087	0.736	1.130
	Front	0.690	0.424	0.394	0.025	1.114	1.084	0.715	1.109
Hotspot & Airplay	Edge 2	0.475	0.424	0.394	N/A	0.899	0.869		
	Edge 3	0.266	0.424	0.394	N/A	0.690	0.660		
	Edge 4	0.603	0.277	0.394	N/A	0.880	0.997		

12.31. Sum of the SAR for LTE Band 25 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.553	0.431	0.399	0.006	0.984	0.952	0.559	0.958
	Left Tilt	0.626	0.431	0.399	0.001	1.057	1.025	0.627	1.026
	Right Touch	0.981	0.431	0.399	0.047	1.412	1.380	1.028	1.427
	Right Tilt	0.751	0.249	0.399	0.025	1.000	1.150	0.776	1.175
Body-worn & Hotspot & Airplay	Rear	0.987	0.424	0.394	0.043	1.411	1.381	1.030	1.424
	Front	0.629	0.424	0.394	0.025	1.053	1.023	0.654	1.048
Hotspot & Airplay	Edge 1	0.613	0.424	0.394	N/A	1.037	1.007		
	Edge 2	0.239	0.424	0.394	N/A	0.663	0.633		
	Edge 4	0.609	0.277	0.394	N/A	0.886	1.003		

12.32. Sum of the SAR for LTE Band 25 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.654	0.431	0.399	0.006	1.085	1.053	0.660	1.059
	Left Tilt	0.332	0.431	0.399	0.001	0.763	0.731	0.333	0.732
	Right Touch	1.140	0.431	0.399	0.047	1.571	1.539	1.187	1.586
	Right Tilt	0.293	0.249	0.399	0.025	0.542	0.692	0.318	0.717
Body-worn & Hotspot & Airplay	Rear	1.130	0.424	0.394	0.043	1.554	1.524	1.173	1.567
	Front	0.722	0.424	0.394	0.025	1.146	1.116	0.747	1.141
Hotspot & Airplay	Edge 2	0.705	0.424	0.394	N/A	1.129	1.099		
	Edge 3	0.976	0.424	0.394	N/A	1.400	1.370		
	Edge 4	0.065	0.277	0.394	N/A	0.342	0.459		

12.33. Sum of the SAR for LTE Band 26 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.687	0.431	0.399	0.006	1.118	1.086	0.693	1.092
	Left Tilt	0.523	0.431	0.399	0.001	0.954	0.922	0.524	0.923
	Right Touch	0.505	0.431	0.399	0.047	0.936	0.904	0.552	0.951
	Right Tilt	0.413	0.249	0.399	0.025	0.662	0.812	0.438	0.837
Body-worn & Hotspot & Airplay	Rear	0.370	0.424	0.394	0.043	0.794	0.764	0.413	0.807
	Front	0.270	0.424	0.394	0.025	0.694	0.664	0.295	0.689
Hotspot & Airplay	Edge 1	0.186	0.424	0.394	N/A	0.610	0.580		
	Edge 2	0.336	0.424	0.394	N/A	0.760	0.730		
	Edge 4	0.102	0.277	0.394	N/A	0.379	0.496		

12.34. Sum of the SAR for LTE Band 26 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.558	0.431	0.399	0.006	0.989	0.957	0.564	0.963
	Left Tilt	0.274	0.431	0.399	0.001	0.705	0.673	0.275	0.674
	Right Touch	0.579	0.431	0.399	0.047	1.010	0.978	0.626	1.025
	Right Tilt	0.314	0.249	0.399	0.025	0.563	0.713	0.339	0.738
Body-worn & Hotspot & Airplay	Rear	0.931	0.424	0.394	0.043	1.355	1.325	0.974	1.368
	Front	0.777	0.424	0.394	0.025	1.201	1.171	0.802	1.196
Hotspot & Airplay	Edge 2	0.503	0.424	0.394	N/A	0.927	0.897		
	Edge 3	0.246	0.424	0.394	N/A	0.670	0.640		
	Edge 4	0.878	0.277	0.394	N/A	1.155	1.272		

12.35. Sum of the SAR for LTE Band 41 (UAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.362	0.431	0.399	0.006	0.793	0.761	0.368	0.767
	Left Tilt	0.260	0.431	0.399	0.001	0.691	0.659	0.261	0.660
	Right Touch	0.951	0.431	0.399	0.047	1.382	1.350	0.998	1.397
	Right Tilt	0.469	0.249	0.399	0.025	0.718	0.868	0.494	0.893
Body-worn & Hotspot & Airplay	Rear	0.998	0.424	0.394	0.043	1.422	1.392	1.041	1.435
	Front	0.423	0.424	0.394	0.025	0.847	0.817	0.448	0.842
Hotspot & Airplay	Edge 1	0.187	0.424	0.394	N/A	0.611	0.581		
	Edge 2	0.043	0.424	0.394	N/A	0.467	0.437		
	Edge 4	0.790	0.277	0.394	N/A	1.067	1.184		

12.36. Sum of the SAR for LTE Band 41 (LAT) & Wi-Fi Cell On & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		WWAN ①	DTS ②	U-NII ③	BT ④	WWAN + DTS ① + ②	WWAN + U-NII ① + ③	WWAN + BT ① + ④	WWAN+U-NII+BT ① + ③ + ④
Head	Left Touch	0.300	0.431	0.399	0.006	0.731	0.699	0.306	0.705
	Left Tilt	0.131	0.431	0.399	0.001	0.562	0.530	0.132	0.531
	Right Touch	0.276	0.431	0.399	0.047	0.707	0.675	0.323	0.722
	Right Tilt	0.092	0.249	0.399	0.025	0.341	0.491	0.117	0.516
Body-worn & Hotspot & Airplay	Rear	1.133	0.424	0.394	0.043	1.557	1.527	1.176	1.570
	Front	0.932	0.424	0.394	0.025	1.356	1.326	0.957	1.351
Hotspot & Airplay	Edge 2	0.067	0.424	0.394	N/A	0.491	0.461		
	Edge 3	1.051	0.424	0.394	N/A	1.475	1.445		
	Edge 4	0.495	0.277	0.394	N/A	0.772	0.889		

12.37. Sum of the SAR for Wi-Fi Cell Off & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)		Σ 1-g SAR (W/kg)
		U-NII ①	BT ②	
Head	Left Touch	0.580	0.006	0.586
	Left Tilt	0.684	0.001	0.685
	Right Touch	1.100	0.047	1.147
	Right Tilt	1.160	0.025	1.185
Body-worn	Rear	1.170	0.043	1.213
	Front	0.507	0.025	0.532

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the 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.

15U21635-S1V1 SAR_App A Photos (STC_180days)

15U21635-S1V2 SAR_App B System Check Plots

15U21635-S1V2 SAR_App C Highest Test Plots

15U21635-S1V1 SAR_App D Tissue Ingredients

15U21635-S1V1 SAR_App E Probe Cal. Certificates

15U21635-S1V1 SAR_App F Dipole Cal. Certificates

END OF REPORT