



SAR EVALUATION REPORT

IEEE Std 1528-2013

For
SMARTPHONE

FCC ID: BCG-E3308A
Model Name: A2218

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Prepared for
APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014

Prepared by
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888



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Revision History

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V2	8/25/2019	Updated Report in accordance with TCB feedback: Updated section 4.3, 8, 9.1, 9.4, 9.5, 9.9, 10.10, 10.12, 10.16, 10.19, 10.21 and Appendix C and E-2	Devin Chang

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1. Attestation of Test Results

Applicant Name	APPLE, INC.				
FCC ID	BCG-E3308A				
Model Name	A2218				
Applicable Standards	Published RF exposure KDB procedures IEEE Std 1528-2013				
Exposure Category	SAR Limits (W/Kg)				
	Peak spatial-average(1g of tissue)			Extremities (hands, wrists, ankles, etc.) (10g of tissue)	
General population / Uncontrolled exposure	1.6			4	
RF Exposure Conditions	<u>Equipment Class</u> - Highest Reported SAR (W/kg)				
	PCE	CBE	DTS	NII	DSS
Head	0.999	0.634	1.110	1.161	0.576
Body-worn (Dist.= 5 mm)	0.997	0.763	1.120	1.171	0.568
Hotspot (Dist.= 5 mm)	0.997	0.792	1.120	1.171	0.572
Simultaneous TX	Head	1.404	1.404	1.404	1.383
	Body-worn	1.539	1.539	1.487	1.539
	Hotspot	1.539	1.539	1.487	1.539
Date Tested	7/1/2019 to 8/22/2019				
Test Results	Pass				
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. 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 the U.S. government.					
Approved & Released By:			Prepared By:		
					
Devin Chang Senior Test Engineer UL Verification Services Inc.			Jason Kuo Laboratory Technician 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
- 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

In addition to the above, the following information was used:

- [TCB workshop](#) October 2014; RF Exposure Procedures (Other LTE Considerations)
- [TCB workshop](#) April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- [TCB workshop](#) October 2015; RF Exposure Procedures (KDB 941225 D05A)
- [TCB workshop](#) April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- [TCB workshop](#) October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- [TCB workshop](#) May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- [TCB workshop](#) May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- [TCB workshop](#) November 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- [TCB workshop](#) April 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion)
- [TCB workshop](#) October 2018; RF Exposure Procedures (LTE Inter-Band Uplink Carrier Aggregation – Interim Procedures)
- [TCB workshop](#) April 2019; RF Exposure Procedures (802.11ax SAR Testing)

3. Facilities and Accreditation

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

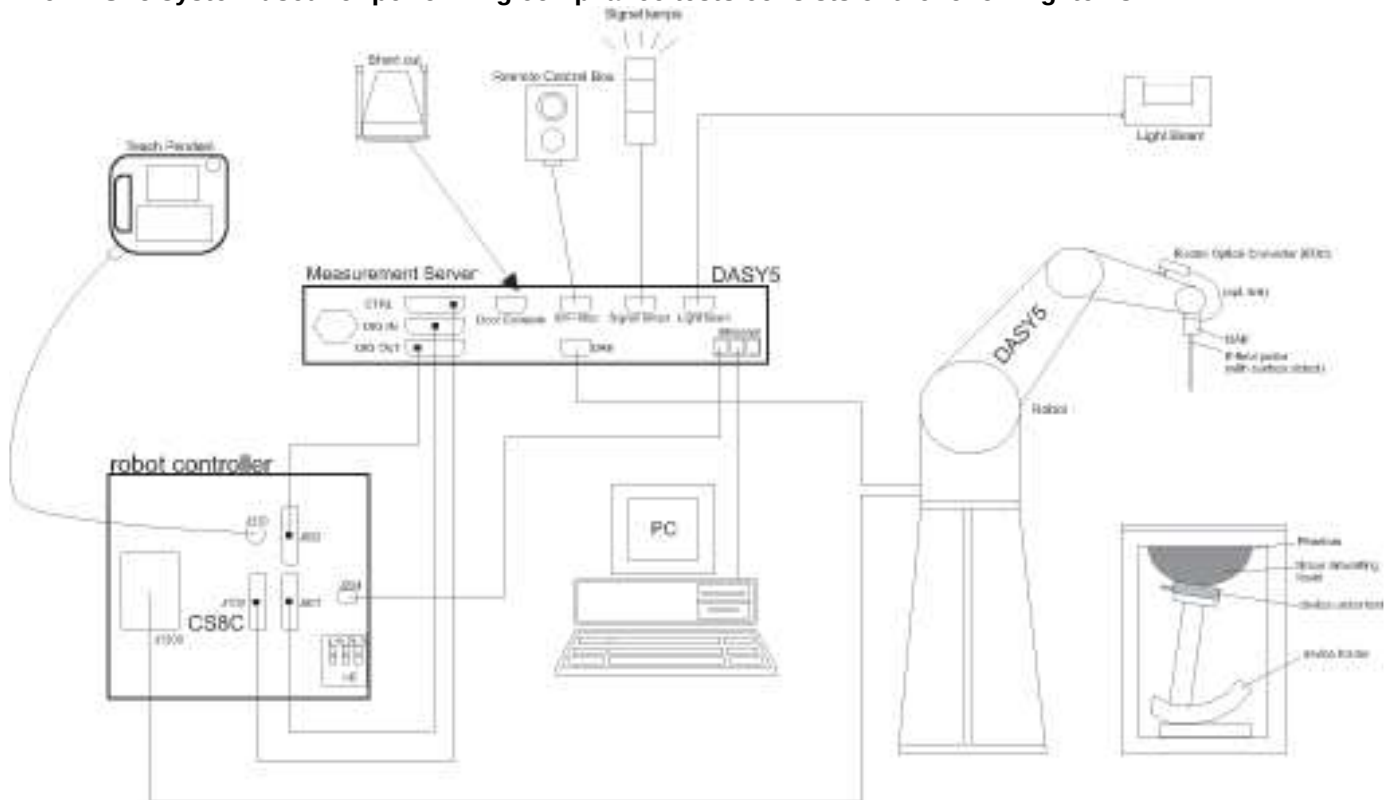
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 7
SAR Lab H	SAR Lab 8
	SAR Lab 9

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: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ 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 <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> 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.

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	R&S	ZNLE6	101274-mn	3/7/2020
Dielectric Probe kit	SPEAG	DAK-3.5	1082	9/11/2019
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	9/11/2019
Thermometer	Fisher Scientific	Traceable	140562250	3/5/2020
Network Analyzer	R&S	ZNLE6	181650	4/24/2020
Dielectric Probe kit	SPEAG	DAK-3.5	SM DAK 040 CA	2/12/2020
Shorting block	SPEAG	DAK-3.5 Short	1059	9/11/2019
Thermometer	Fisher Scientific	Traceable	170064398	5/21/2020

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	Rhode & Schwarz	SMB100A	180970	2/13/2020
Signal Generator	Rhode & Schwarz	SMB100A	181390	2/13/2020
Signal Generator	Rhode & Schwarz	SMB100A	181389	2/14/2020
Power Sensor	Rhode & Schwarz	NRP18A	100994	2/15/2020
Power Sensor	Rhode & Schwarz	NRP18A	181144	2/15/2020
Power Sensor	Rhode & Schwarz	NRP18A	181143	2/15/2020
Synthesized Signal Generator	Agilent	N5181A	MY50140610	1/31/2020
Power Meter	Keysight	N1912A	MY55196007	1/30/2020
Power Sensor	Agilent	N1921A	MY53260001	2/5/2020
Power Sensor	Agilent	N1921A	MY52200012	2/6/2020
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	Sorensen	XT 15-4	1817A02680	N/A
Synthesized Signal Generator	Agilent	N5181A	MY50140630	1/31/2020
Power Sensor	HP	437B	3125U11364	1/29/2020
Power Sensor	HP	437B	3125U16345	1/30/2020
Power Sensor	Keysight	8481A	1926AZ7048	2/7/2020
Power Sensor	Keysight	8481A	3318A92374	9/11/2019
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	HP	6296A	2841A-05955	N/A

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3686	8/28/2019
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3989	1/25/2020
E-Field Probe (SAR Lab C) *	SPEAG	EX3DV4	3990	8/17/2019
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	7501	5/21/2020
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	7335	2/28/2020
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3749	1/25/2020
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	7356	4/17/2020
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	7448	3/27/2020
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7498	4/18/2020
E-Field Probe (SAR Lab 6)	SPEAG	EX3DV4	3990	8/17/2019
E-Field Probe (SAR Lab 6)	SPEAG	EX3DV4	3773	3/27/2020
E-Field Probe (SAR Lab 7)	SPEAG	EX3DV4	3772	2/20/2020
E-Field Probe (SAR Lab 8)	SPEAG	EX3DV4	3902	5/21/2020
E-Field Probe (SAR Lab 9)	SPEAG	EX3DV4	3773	3/27/2020
E-Field Probe (SAR Lab 9)*	SPEAG	EX3DV4	7463	7/20/2019
Data Acquisition Electronics (SAR Lab A)*	SPEAG	DAE4	1380	8/21/2019
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1377	9/14/2019
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4	1547	5/14/2020
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1434	4/16/2020
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1258	5/14/2020
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1357	2/13/2020
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1548	4/16/2020
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1257	9/14/2019
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1545	4/12/2020
Data Acquisition Electronics (SAR Lab 6)	SPEAG	DAE4	1433	3/20/2020
Data Acquisition Electronics (SAR Lab 7)*	SPEAG	DAE4	1352	8/12/2019
Data Acquisition Electronics (SAR Lab 8)	SPEAG	DAE4	1540	2/18/2020
Data Acquisition Electronics (SAR Lab 9)	SPEAG	DAE4	1546	5/14/2020
Data Acquisition Electronics (SAR Lab 9)	SPEAG	DAE4	1259	10/10/2019
System Validation Dipole	SPEAG	D750V3	1019	3/21/2020
System Validation Dipole	SPEAG	D750V3	1071	11/28/2019
System Validation Dipole	SPEAG	D835V2	4d002	11/28/2019
System Validation Dipole	SPEAG	D835V2	4d117	5/15/2020
System Validation Dipole	SPEAG	D1750V2	1050	4/17/2020
System Validation Dipole	SPEAG	D1750V2	1077	10/16/2019
System Validation Dipole	SPEAG	D1900V2	5d163	10/16/2019
System Validation Dipole	SPEAG	D1900V2	5d140	4/17/2020
System Validation Dipole	SPEAG	D2300V2	1002	3/22/2020
System Validation Dipole	SPEAG	D2450V2	899	3/22/2020
System Validation Dipole	SPEAG	D2600V2	1006	10/16/2019
System Validation Dipole	SPEAG	D2600V2	1036	3/22/2020
System Validation Dipole	SPEAG	D3500V2	1011	5/13/2020
System Validation Dipole	SPEAG	D3700V2	1039	6/12/2020
System Validation Dipole	SPEAG	D5GHzV2	1168	11/30/2019
System Validation Dipole	SPEAG	D5GHzV2	1003	2/19/2020

Note(s):

*Equipment not used past calibration due date.

Other

Name of Equipment	Manufacturer	Type/Model	Tnumber	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	T375	132910-cp	2/18/2020
Base Station Simulator	R & S	CMW500	T970	137875-dz	2/21/2020
Base Station Simulator	R & S	CMW500	T979	135394-mC	2/20/2020
Base Station Simulator	R & S	CMW500	T964	134853-ud	2/21/2020
Base Station Simulator	R & S	CMW500	T959	137873-WG	2/16/2020
Base Station Simulator	R & S	CMW500	T259	124594-HX	2/17/2020
Base Station Simulator	R & S	CMW500	T919	125236-eS	4/10/2020

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 and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

6. Device Under Test (DUT) Information

6.1. DUT Description

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, TD-SCDMA, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wide band, GPS and NFC. All models support at least one UICC based SIM. The second SIM, if present, is either UICC based pSIM (physical SIM) or e-SIM (electronic SIM). The device has a built-in inductive charging receiver. The rechargeable battery is also not user accessible.

This device has five WWAN antennas (ANT1, ANT2, ANT3, ANT4, and ANT6) as well as multiple Wi-Fi/BT antennas (ANT3 and ANT4 for Wi-Fi/BT 2.4GHz, ANT5 and ANT6 for Wi-Fi 5GHz).

The device utilizes two power modes: Mode A and Mode B. Power selection is determined by the device's positioning and use case as described in Sec. 10. Mode A power is used when the device is used against the user's head, or away from the body. Mode B is used when the device is used in a body-worn configuration by the user.

The WWAN transmit antenna switching mechanism between WWAN antennas is implemented with a physical "break-before-make" switch so that only one antenna can be used for WWAN transmission at one time.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

There are two vendors of the Wi-Fi/Bluetooth radio modules: variant 1 and variant 2. The Wi-Fi/BT radio modules have the same mechanical outline (e.g., the same package dimension and pin-out layout), use the same on-board antenna matching circuit, have an identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. It is confirmed that Variant 1 represents the worst case.

Device Dimension	Overall (Length x Width): 156.3 mm x 77.8 mm Overall Diagonal: 174.5 mm Display Diagonal: 164.1 mm
Back Cover	The Back Cover is not removable
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)
Bluetooth Tethering (Hotspot)	BT Tethering mode permits the device to share its cellular data connection with other devices. ☒ BT Tethering (Bluetooth 2.4 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EDGE (8PSK)	GSM Class : B Multi-Slot Class: Class 10 - 2 Up, 4 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	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) HSPA+ (Rel. 7) DC-HSDPA (Rel. 8)		100%
LTE	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 29 (DL Only) FDD Band 30 TDD Band 41 ² TDD Band 46 (DL Only) TDD Band 48 FDD Band 66 Carrier Aggregation ³ FDD Band 5B FDD Band 7C TDD Band 41C	QPSK 16QAM 64QAM Carrier Aggregation (2 Uplinks and 5 Downlinks)		100% (FDD) 63.3% (TDD) Power Class 3 43.3% (TDD) Power Class 2 Refer to §6.4
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
Wi-Fi	2.4 GHz ¹	802.11b 802.11g 802.11n (HT20) 802.11ac (HT20) 802.11ax (HE20)		100% (802.11b)
	5 GHz ¹	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80) 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80)		98.87% (802.11a/n/ac 20MHz BW) 97.31% (802.11n/ac 40MHz BW) 95.63% (802.11ac 80MHz BW)
	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	BR, EDR, LE, and HDR		100%
NFC	13.56 MHz	Type A/B/F and ISO15693		N/A ⁴
UWB (Ultra-Wideband)	6.24 GHz and 8.2368 GHz	BPSK, 4BOK		N/A ⁴

Notes:

1. Duty cycle for Wi-Fi and BT is referenced from the DTS and U-NII and BT reports.

2. This device supports Power Class 2 and Power Class 3 for LTE Band 41.
3. LTE Uplink 2CA is the total combined power of the UL CA.
LTE Uplink Cat 13, LTE 3GPP Rel-13 (LTE 3GPP Rel-14 for B41 PC2)
4. Measured Duty Cycle is not required due to SAR test exemption.

6.3. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz (BW = 60 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 (BW = 45 MHz)					
		Channel Bandwidth					
		20 MHz ¹	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 (BW = 25 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	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 (BW = 70 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 (BW = 17 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	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
	Band 13	Frequency range: 777 - 787 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		
	Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low			23780/ 709	23755/ 706.5		
	Mid			23790/ 710	23790/ 710		
	High			23800/ 710	23825/ 710		

				711	713.5		
	Band 25	Frequency range: 1850 - 1915 MHz (BW = 65 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 (BW = 35 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 30	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				27685/2307.5		
	Mid			27710/2310	27710/2310		
	High				27735/2312.5		
	Band 41 ²	Frequency range: 2496 - 2690 MHz (BW = 194 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					
	Band 48	Frequency range: 3550 - 3700 MHz (BW = 150 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	55340/3560	55315/3557.5	55290/3555	55265/3552.5		
	Mid-Low	55773/3603.3	55765/3602.5	55757/3601.7	55748/3600.8		
	Mid-High	56207/3646.7	56215/3647.5	56223/3648.3	56232/3649.2		
	High	56640/3690	56665/3692.5	56690/3695	56715/3697.5		
	Band 66	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	132072/1720	132047/1717.5	132022/1715	131997/1712.5	131987/1711.5	131979/1710.7
	Mid	132322/1745	132322/1745	132322/1745	132322/1745	132322/1745	132322/1745
	High	132572/1770	132597/1772.5	132622/1775	132647/1777.5	132657/1778.5	132665/1779.3
LTE transmitter and antenna implementation	LTE can transmit from either ANT1, ANT2, ANT3, ANT4, and ANT6 Then antenna switching is implemented with a physical, "break-before-make" switch such that only one antenna can be used for LTE transmission at a time.						

Maximum power reduction (MPR)	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 <table><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{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><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table> MPR Built-in by design The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing	Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																								
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																									
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																								
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																								
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																								
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																								
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																								
256 QAM	≥ 1						≤ 5																																																								
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.																																																														

Notes:

1. Maximum 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.
2. LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
3. SAR Testing for LTE was performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

6.4. 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.

LTE TDD Bands support 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	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
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	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-
9	$13168 \cdot T_s$			-	-	-
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

Table 4.2-2: Uplink-downlink configurations & 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	63.3%
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.3%
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.3%
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.7%
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.7%
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.7%
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.3%

Calculated Duty Cycle = Extended cyclic prefix in uplink * (T_s) * # of S + # of U / period

Note(s):

This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% duty cycle.

7. RF Exposure Conditions (Test Configurations)

This device has a total of 6 antennas. From Front of the device, antennas and supported frequencies are described and located as follows:

ANT1 (all WWAN bands) - located at the lower of the device.

ANT2 (all WWAN bands except for LTE Band 48) - located at the upper of the device.

ANT3 (all WWAN bands above 1700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at lower left corner of the device. CDMA BC1 is not supported by this antenna.

ANT4 (all WWAN bands above 1700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at upper right corner of the device. CDMA BC1 is not supported by this antenna.

ANT5 (Wi-Fi 5 GHz Bands) – located at lower left corner of the device.

ANT6 (LTE Band 48 and Wi-Fi 5 GHz Bands) – located at upper left corner of the device.

Refer to separate filing submission document for the proprietary design details of the antenna-to-antenna and antenna-to-edge(s) distances.

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

Lower Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN (ANT1)	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/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	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	
WWAN/ Wi-Fi 2.4 GHz/ BT (ANT3)	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/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	
Wi-Fi 5 GHz (ANT5)	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/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	

Note(s):

- SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode.
- 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.

Upper Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN except for LTE Band 48 (ANT2)	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/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	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	
WWAN/ Wi-Fi 2.4 GHz/ BT (ANT4)	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	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	> 25 mm	No	1
LTE Band 48 and Wi-Fi 5 GHz (ANT6)	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/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	< 25 mm	Yes	

Note(s):

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.

The dielectric constant (ϵ_r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within $\pm 5\%$ of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ_r and σ may be relaxed to $\pm 10\%$. This is limited to frequencies $\leq 3\text{ GHz}$.

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	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
A	7/14/2019	2600	Head	2600	37.84	39.01	-3.00	1.97	1.96	0.55
				2495	37.97	39.14	-3.00	1.88	1.85	1.59
				2690	37.63	38.90	-3.26	2.05	2.06	-0.56
A	7/14/2019	2600	Body	2600	51.14	52.51	-2.61	2.23	2.16	3.02
				2495	51.42	52.64	-2.32	2.09	2.01	3.96
				2690	50.81	52.40	-3.03	2.34	2.29	2.17
A	7/18/2019	2600	Head	2600	38.48	39.01	-1.36	1.89	1.96	-3.47
				2495	38.60	39.14	-1.39	1.82	1.85	-1.82
				2690	38.33	38.90	-1.46	1.97	2.06	-4.59
A	7/18/2019	2600	Body	2600	53.51	52.51	1.90	2.23	2.16	3.20
				2495	53.82	52.64	2.24	2.09	2.01	3.86
				2690	53.18	52.40	1.49	2.35	2.29	2.79
A	7/22/2019	2600	Head	2600	37.39	39.01	-4.15	1.94	1.96	-1.33
				2495	37.55	39.14	-4.07	1.85	1.85	0.18
				2690	37.20	38.90	-4.36	2.01	2.06	-2.50
A	7/22/2019	2600	Body	2600	52.30	52.51	-0.40	2.15	2.16	-0.50
				2495	52.60	52.64	-0.08	2.03	2.01	0.58
				2690	51.99	52.40	-0.78	2.26	2.29	-1.24
A	7/26/2019	2600	Head	2600	38.51	39.01	-1.28	1.96	1.96	0.09
				2495	38.66	39.14	-1.23	1.87	1.85	1.10
				2690	38.32	38.90	-1.48	2.04	2.06	-0.80
A	7/26/2019	2600	Body	2600	50.04	52.51	-4.71	2.09	2.16	-3.51
				2495	50.31	52.64	-4.43	1.95	2.01	-3.19
				2690	49.79	52.40	-4.98	2.19	2.29	-4.17
A	7/29/2019	2600	Head	2600	39.54	39.01	1.36	1.93	1.96	-1.54
				2495	39.64	39.14	1.27	1.83	1.85	-0.85
				2690	39.40	38.90	1.29	2.01	2.06	-2.50
A	7/29/2019	2600	Body	2600	53.49	52.51	1.86	2.12	2.16	-1.80
				2495	53.78	52.64	2.16	1.98	2.01	-1.45
				2690	53.18	52.40	1.49	2.23	2.29	-2.42
A	8/8/2019	2600	Head	2600	40.61	39.01	4.10	1.97	1.96	0.40
				2495	40.76	39.14	4.13	1.88	1.85	1.64
				2690	40.44	38.90	3.97	2.04	2.06	-0.75
A	8/8/2019	2600	Body	2600	52.33	52.51	-0.34	2.13	2.16	-1.47
				2495	52.49	52.64	-0.29	2.03	2.01	0.98
				2690	52.18	52.40	-0.41	2.21	2.29	-3.20

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	7/6/2019	1750	Head	1750	41.28	40.08	2.98	1.33	1.37	-3.14
				1710	41.30	40.15	2.87	1.30	1.35	-3.37
				1755	41.26	40.08	2.95	1.33	1.37	-3.19
B	7/6/2019	1750	Body	1750	51.35	53.44	-3.91	1.50	1.49	0.93
				1710	51.45	53.54	-3.91	1.45	1.46	-0.72
				1755	51.33	53.43	-3.93	1.51	1.49	1.06
B	7/10/2019	1750	Head	1750	39.20	40.08	-2.21	1.36	1.37	-1.02
				1710	39.22	40.15	-2.31	1.33	1.35	-1.29
				1755	39.18	40.08	-2.24	1.36	1.37	-1.08
B	7/10/2019	1750	Body	1750	51.98	53.44	-2.73	1.46	1.49	-1.63
				1710	52.08	53.54	-2.73	1.42	1.46	-3.18
				1755	51.96	53.43	-2.75	1.47	1.49	-1.49
B	7/14/2019	1750	Head	1750	39.14	40.08	-2.36	1.39	1.37	1.24
				1710	39.18	40.15	-2.41	1.36	1.35	0.86
				1755	39.12	40.08	-2.39	1.39	1.37	1.25
B	7/14/2019	1750	Body	1750	52.09	53.44	-2.53	1.52	1.49	2.48
				1710	52.21	53.54	-2.49	1.47	1.46	0.85
				1755	52.07	53.43	-2.54	1.53	1.49	2.67
B	7/18/2019	1750	Head	1750	38.55	40.08	-3.83	1.35	1.37	-1.31
				1710	38.59	40.15	-3.88	1.33	1.35	-1.52
				1755	38.53	40.08	-3.86	1.35	1.37	-1.30
B	7/18/2019	1750	Body	1750	50.91	53.44	-4.74	1.52	1.49	2.08
				1710	51.04	53.54	-4.68	1.47	1.46	0.51
				1755	50.88	53.43	-4.77	1.52	1.49	2.20
B	7/21/2019	1900	Body	1900	50.99	53.30	-4.33	1.53	1.52	0.79
				1850	51.16	53.30	-4.02	1.48	1.52	-2.63
				1920	50.93	53.30	-4.45	1.56	1.52	2.30
B	7/22/2019	1750	Head	1750	38.48	40.08	-4.00	1.37	1.37	0.00
				1710	38.47	40.15	-4.18	1.34	1.35	-0.48
				1755	38.47	40.08	-4.01	1.37	1.37	0.01
B	7/22/2019	1750	Body	1750	50.87	53.44	-4.81	1.53	1.49	3.22
				1710	50.93	53.54	-4.88	1.48	1.46	1.40
				1755	50.85	53.43	-4.83	1.54	1.49	3.41
B	7/26/2019	1750	Body	1750	51.37	53.44	-3.88	1.55	1.49	4.57
				1710	51.50	53.54	-3.82	1.51	1.46	2.97
				1755	51.34	53.43	-3.91	1.56	1.49	4.68
B	7/30/2019	2600	Head	2600	37.73	39.01	-3.28	1.94	1.96	-1.03
				2495	37.90	39.14	-3.18	1.85	1.85	-0.14
				2690	37.52	38.90	-3.54	2.02	2.06	-2.06

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	8/2/2019	1900	Head	1900	39.42	40.00	-1.45	1.45	1.40	3.50
				1850	39.53	40.00	-1.18	1.42	1.40	1.43
				1920	39.39	40.00	-1.53	1.46	1.40	4.57
B	8/9/2019	1900	Head	1900	40.27	40.00	0.68	1.43	1.40	2.07
				1850	40.34	40.00	0.85	1.40	1.40	0.14
				1920	40.26	40.00	0.65	1.44	1.40	3.00
B	8/9/2019	1900	Body	1900	51.28	53.30	-3.79	1.54	1.52	1.25
				1850	51.46	53.30	-3.45	1.49	1.52	-2.24
				1920	51.23	53.30	-3.88	1.56	1.52	2.83
B	8/21/2019	1750	Head	1750	41.10	40.08	2.53	1.32	1.37	-3.43
				1710	41.22	40.15	2.67	1.30	1.35	-3.37
				1755	41.08	40.08	2.50	1.32	1.37	-3.48
B	8/21/2019	1750	Body	1750	53.33	53.44	-0.21	1.48	1.49	-0.48
				1710	53.54	53.54	-0.01	1.44	1.46	-1.68
				1755	53.30	53.43	-0.24	1.49	1.49	-0.28

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
C	7/6/2019	1900	Body	1900	51.49	53.30	-3.40	1.49	1.52	-2.04
				1850	51.61	53.30	-3.17	1.45	1.52	-4.67
				1920	51.46	53.30	-3.45	1.51	1.52	-0.79
C	7/6/2019	1900	Head	1900	41.62	40.00	4.05	1.39	1.40	-0.93
				1850	41.77	40.00	4.43	1.35	1.40	-3.64
				1920	41.57	40.00	3.93	1.41	1.40	0.50
C	7/10/2019	1900	Body	1900	51.08	53.30	-4.17	1.52	1.52	-0.20
				1850	51.18	53.30	-3.98	1.47	1.52	-3.03
				1920	51.05	53.30	-4.22	1.54	1.52	1.25
C	7/10/2019	1900	Head	1900	39.49	40.00	-1.28	1.45	1.40	3.43
				1850	39.62	40.00	-0.95	1.40	1.40	0.21
				1920	39.45	40.00	-1.37	1.47	1.40	5.00
C	7/14/2019	1900	Body	1900	50.67	53.30	-4.93	1.49	1.52	-1.71
				1850	50.78	53.30	-4.73	1.46	1.52	-4.01
				1920	50.64	53.30	-4.99	1.51	1.52	-0.53
C	7/14/2019	1900	Head	1900	39.22	40.00	-1.95	1.41	1.40	0.50
				1850	39.41	40.00	-1.48	1.37	1.40	-1.93
				1920	39.18	40.00	-2.05	1.43	1.40	1.93
C	7/17/2019	1900	Body	1900	54.15	53.30	1.59	1.52	1.52	-0.13
				1850	54.28	53.30	1.84	1.47	1.52	-3.22
				1920	54.08	53.30	1.46	1.54	1.52	1.25
C	7/17/2019	1900	Head	1900	40.88	40.00	2.20	1.45	1.40	3.21
				1850	41.25	40.00	3.13	1.40	1.40	0.14
				1920	40.74	40.00	1.85	1.46	1.40	4.50
C	7/21/2019	1900	body	1900	51.01	53.30	-4.30	1.56	1.52	2.43
				1850	51.17	53.30	-4.00	1.52	1.52	-0.33
				1920	50.97	53.30	-4.37	1.58	1.52	3.75
C	7/21/2019	1900	Head	1900	38.18	40.00	-4.55	1.45	1.40	3.43
				1850	38.19	40.00	-4.53	1.45	1.40	3.43
				1920	38.14	40.00	-4.65	1.47	1.40	4.93
C	7/25/2019	1900	Head	1900	39.98	40.00	-0.05	1.44	1.40	2.71
				1850	39.19	40.00	-2.03	1.39	1.40	-0.43
				1920	38.92	40.00	-2.70	1.46	1.40	4.29
C	7/25/2019	1900	Body	1900	51.62	53.30	-3.15	1.53	1.52	0.72
				1850	51.78	53.30	-2.85	1.49	1.52	-2.30
				1920	51.57	53.30	-3.25	1.55	1.52	2.11
C	8/9/2019	1750	Head	1750	39.43	40.08	-1.63	1.34	1.37	-2.19
				1710	39.57	40.15	-1.44	1.30	1.35	-3.45
				1755	39.40	40.08	-1.69	1.34	1.37	-2.03
C	8/9/2019	1750	Body	1750	52.78	53.44	-1.24	1.45	1.49	-2.16
				1710	52.87	53.54	-1.26	1.41	1.46	-3.66
				1755	52.75	53.43	-1.27	1.46	1.49	-2.03

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	7/10/2019	2300	Head	2300	38.73	39.47	-1.88	1.72	1.66	3.14
				2350	38.61	39.38	-1.97	1.75	1.71	2.42
				2400	38.50	39.30	-2.03	1.79	1.75	1.96
D	7/10/2019	2300	Body	2300	51.94	52.90	-2.26	1.73	1.80	-2.08
				2350	51.53	52.84	-2.48	1.82	1.85	-1.88
				2400	51.38	52.77	-2.64	1.87	1.90	-1.48
D	7/13/2019	2600	Head	2600	37.88	39.01	-2.90	1.98	1.96	1.06
				2495	37.96	39.14	-3.02	1.89	1.85	2.18
				2690	37.58	38.90	-3.39	2.05	2.06	-0.51
D	7/13/2019	2600	Body	2600	54.71	52.51	4.19	2.26	2.16	4.45
				2495	54.89	52.64	4.27	2.11	2.01	4.96
				2690	54.31	52.40	3.65	2.37	2.29	3.57
D	7/14/2019	2300	Head	2300	41.41	39.47	4.91	1.61	1.66	-3.35
				2350	41.34	39.38	4.96	1.64	1.71	-4.20
				2400	41.22	39.30	4.89	1.67	1.75	-4.89
D	7/14/2019	2300	Body	2300	51.23	52.90	-3.16	1.85	1.80	2.69
				2350	51.07	52.84	-3.35	1.90	1.85	2.66
				2400	50.87	52.77	-3.61	1.95	1.90	2.90
D	7/17/2019	2300	Head	2300	37.62	39.47	-4.69	1.71	1.66	2.60
				2350	37.54	39.38	-4.68	1.74	1.71	1.89
				2400	37.41	39.30	-4.80	1.77	1.75	1.22
D	7/17/2019	2300	Body	2300	51.66	52.90	-2.35	1.75	1.80	-2.80
				2350	51.51	52.84	-2.51	1.81	1.85	-2.42
				2400	51.34	52.77	-2.71	1.86	1.90	-2.00
D	7/21/2019	2300	Body	2300	51.69	52.90	-2.30	1.85	1.80	2.74
				2350	51.55	52.84	-2.44	1.91	1.85	3.04
				2400	51.38	52.77	-2.64	1.96	1.90	3.48
D	7/21/2019	2300	Head	2300	37.55	39.47	-4.87	1.74	1.66	4.52
				2350	37.72	39.38	-4.23	1.77	1.71	3.88
				2400	37.35	39.30	-4.95	1.79	1.75	2.25
D	7/21/2019	1900	Head	1900	38.11	40.00	-4.73	1.46	1.40	3.93
				1850	38.18	40.00	-4.55	1.43	1.40	2.00
				1920	38.09	40.00	-4.77	1.47	1.40	4.86
D	7/22/2019	2600	Head	2600	37.29	39.01	-4.41	1.93	1.96	-1.54
				2495	37.44	39.14	-4.35	1.84	1.85	-0.52
				2690	37.11	38.90	-4.59	2.00	2.06	-2.79
D	7/24/2019	2600	Body	2600	52.65	52.51	0.27	2.14	2.16	-1.06
				2495	52.92	52.64	0.53	2.01	2.01	-0.31
				2690	52.34	52.40	-0.11	2.25	2.29	-1.76
D	7/24/2019	2600	Head	2600	37.58	39.01	-3.67	1.97	1.96	0.20
				2495	37.74	39.14	-3.58	1.87	1.85	0.88
				2690	37.56	38.90	-3.44	2.04	2.06	-0.90
D	7/25/2019	2300	Body	2300	51.21	52.90	-3.20	1.77	1.80	-1.75
				2350	51.07	52.84	-3.35	1.82	1.85	-1.93
				2400	50.71	52.77	-3.91	1.88	1.90	-1.05

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	7/26/2019	2300	Head	2300	38.46	39.47	-2.57	1.75	1.66	4.94
				2350	38.35	39.38	-2.63	1.78	1.71	4.12
				2400	38.30	39.30	-2.54	1.82	1.75	3.79
D	7/29/2019	2600	Head	2600	39.03	39.01	0.05	1.99	1.96	1.37
				2495	39.19	39.14	0.12	1.89	1.85	2.07
				2690	38.82	38.90	-0.20	2.06	2.06	0.22
D	7/29/2019	2600	Body	2600	52.54	52.51	0.06	2.11	2.16	-2.44
				2495	52.82	52.64	0.34	1.97	2.01	-2.00
				2690	52.23	52.40	-0.32	2.22	2.29	-2.99
D	8/6/2019	2600	Head	2600	38.65	39.01	-0.92	1.95	1.96	-0.87
				2495	38.81	39.14	-0.85	1.86	1.85	0.34
				2690	38.49	38.90	-1.05	2.02	2.06	-2.01
D	8/6/2019	2600	Body	2600	50.65	52.51	-3.54	2.13	2.16	-1.47
				2495	50.95	52.64	-3.22	2.00	2.01	-0.46
				2690	50.38	52.40	-3.85	2.24	2.29	-2.20
D	8/9/2019	2300	Head	2300	38.26	39.47	-3.07	1.67	1.66	0.62
				2350	38.16	39.38	-3.11	1.71	1.71	-0.10
				2400	38.04	39.30	-3.20	1.74	1.75	-0.61
D	8/9/2019	2300	Body	2300	51.34	52.90	-2.96	1.86	1.80	2.97
				2350	51.17	52.84	-3.16	1.91	1.85	3.31
				2400	50.99	52.77	-3.38	1.97	1.90	3.74
D	8/13/2019	2300	Body	2300	55.46	52.90	4.83	1.84	1.80	2.13
				2350	55.15	52.84	4.37	1.90	1.85	2.44
				2400	55.16	52.77	4.52	1.96	1.90	3.48
D	8/13/2019	2300	Head	2300	39.83	39.47	0.91	1.73	1.66	4.10
				2350	39.59	39.38	0.52	1.76	1.71	3.18
				2400	39.58	39.30	0.72	1.81	1.75	3.33

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
E	7/2/2019	5750	Head	5750	35.93	35.36	1.60	5.22	5.21	0.14
				5700	36.07	35.42	1.84	5.11	5.16	-0.96
				5850	35.81	35.30	1.44	5.29	5.27	0.32
E	7/2/2019	5750	Body	5750	46.62	48.27	-3.43	6.16	5.94	3.84
				5700	46.84	48.34	-3.11	5.90	5.88	0.36
				5850	46.36	48.20	-3.82	6.16	6.00	2.65
E	7/6/2019	5750	Head	5750	37.01	35.36	4.66	5.18	5.21	-0.74
				5700	36.91	35.42	4.21	4.93	5.16	-4.58
				5850	36.61	35.30	3.71	5.17	5.27	-1.92
E	7/6/2019	5750	Body	5750	46.96	48.27	-2.72	6.15	5.94	3.64
				5700	46.78	48.34	-3.23	5.83	5.88	-0.74
				5850	46.41	48.20	-3.71	6.18	6.00	2.95
E	7/9/2019	5750	Head	5750	36.37	35.36	2.85	5.16	5.21	-1.09
				5700	36.40	35.42	2.77	5.12	5.16	-0.92
				5850	36.25	35.30	2.69	5.28	5.27	0.09
E	7/9/2019	5750	Body	5750	47.56	48.27	-1.48	5.97	5.94	0.49
				5700	47.60	48.34	-1.54	5.92	5.88	0.64
				5850	47.42	48.20	-1.62	6.12	6.00	1.98
E	7/10/2019	2450	Body	2450	52.24	52.70	-0.87	1.92	1.95	-1.44
				2400	52.54	52.77	-0.44	1.87	1.90	-1.58
				2480	52.21	52.66	-0.86	1.96	1.99	-1.41
E	7/13/2019	2600	Body	2600	52.96	52.51	0.86	2.23	2.16	3.20
				2495	53.26	52.64	1.17	2.07	2.01	2.97
				2690	52.46	52.40	0.12	2.36	2.29	2.96
E	7/17/2019	2600	Body	2600	51.72	52.51	-1.51	2.13	2.16	-1.52
				2495	52.08	52.64	-1.07	2.00	2.01	-0.71
				2690	51.40	52.40	-1.90	2.25	2.29	-1.59
E	7/21/2019	2600	Body	2600	51.04	52.51	-2.80	2.19	2.16	1.21
				2495	51.42	52.64	-2.32	2.04	2.01	1.53
				2690	50.65	52.40	-3.33	2.31	2.29	1.08
E	7/30/2019	2600	Body	2600	52.10	52.51	-0.78	2.20	2.16	1.77
				2495	52.47	52.64	-0.33	2.05	2.01	1.73
				2690	51.75	52.40	-1.24	2.33	2.29	1.74
E	8/16/2019	3500	Body	3500	50.42	51.32	-1.76	3.38	3.31	2.15
				3600	50.23	51.19	-1.87	3.48	3.43	1.56
				3700	50.05	51.05	-1.96	3.58	3.55	0.96
E	8/21/2019	2600	Body	2600	52.04	52.51	-0.90	2.18	2.16	1.03
				2495	52.38	52.64	-0.50	2.04	2.01	1.08
				2690	51.69	52.40	-1.35	2.31	2.29	1.12

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	7/5/2019	2450	Body	2450	52.49	52.70	-0.40	1.97	1.95	0.92
				2400	52.67	52.77	-0.19	1.91	1.90	0.42
				2480	52.37	52.66	-0.55	2.00	1.99	0.59
F	7/5/2019	2450	Head	2450	38.35	39.20	-2.17	1.89	1.80	4.72
				2400	38.52	39.30	-1.98	1.83	1.75	4.47
				2480	38.23	39.16	-2.38	1.92	1.83	4.62
F	7/9/2019	2450	Head	2450	40.85	39.20	4.21	1.89	1.80	4.78
				2400	41.05	39.30	4.46	1.82	1.75	4.07
				2480	40.79	39.16	4.16	1.92	1.83	4.78
F	7/9/2019	2450	Body	2450	51.46	52.70	-2.35	2.05	1.95	4.97
				2400	51.67	52.77	-2.09	1.97	1.90	3.74
				2480	51.41	52.66	-2.38	2.08	1.99	4.61
F	7/13/2019	2450	Body	2450	52.83	52.70	0.25	2.02	1.95	3.44
				2400	52.83	52.77	0.11	1.93	1.90	1.74
				2480	52.71	52.66	0.09	2.05	1.99	2.65
F	7/13/2019	2450	Head	2450	40.04	39.20	2.14	1.84	1.80	2.33
				2400	40.07	39.30	1.97	1.77	1.75	1.05
				2480	39.96	39.16	2.04	1.87	1.83	1.89
F	7/17/2019	2450	Head	2450	38.78	39.20	-1.07	1.85	1.80	2.67
				2400	39.01	39.30	-0.73	1.79	1.75	2.30
				2480	38.68	39.16	-1.23	1.88	1.83	2.71
F	7/17/2019	2450	Body	2450	51.18	52.70	-2.88	2.01	1.95	2.97
				2400	51.42	52.77	-2.56	1.94	1.90	2.37
				2480	51.08	52.66	-3.00	2.05	1.99	2.75
F	7/23/2019	5250	Head	5250	37.35	35.93	3.94	4.58	4.70	-2.66
				5150	37.52	36.05	4.09	4.46	4.60	-3.06
				5350	37.16	35.82	3.74	4.70	4.80	-2.22
F	7/23/2019	5600	Head	5600	36.77	35.53	3.48	4.97	5.06	-1.86
				5500	36.96	35.65	3.68	4.85	4.96	-2.18
				5725	36.54	35.39	3.25	5.13	5.19	-1.18
F	7/23/2019	5750	Head	5750	36.49	35.36	3.19	5.17	5.21	-0.93
				5700	36.60	35.42	3.33	5.09	5.16	-1.37
				5850	36.34	35.30	2.95	5.27	5.27	-0.02
F	7/30/2019	2600	Body	2600	51.68	52.51	-1.58	2.17	2.16	0.52
				2495	52.04	52.64	-1.15	2.02	2.01	0.53
				2690	51.34	52.40	-2.02	2.30	2.29	0.34
F	8/9/2019	2300	Head	2300	38.76	39.47	-1.81	1.71	1.66	2.60
				2350	38.67	39.38	-1.81	1.74	1.71	1.89
				2400	38.54	39.30	-1.93	1.77	1.75	1.05
F	8/9/2019	2300	Body	2300	51.85	52.90	-1.99	1.83	1.80	1.30
				2350	51.59	52.84	-2.36	1.89	1.85	2.23
				2400	51.41	52.77	-2.58	1.96	1.90	3.42
F	8/9/2019	3500	Head	3500	37.66	37.93	-0.71	2.79	2.91	-4.18
				3600	37.48	37.82	-0.89	2.88	3.01	-4.31
				3700	37.28	37.70	-1.12	2.97	3.12	-4.63

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	8/9/2019	3500	Body	3500	50.58	51.32	-1.45	3.15	3.31	-4.86
				3600	50.30	51.19	-1.73	3.28	3.43	-4.33
				3700	50.00	51.05	-2.06	3.41	3.55	-3.92
F	8/13/2019	3700	Head	3500	37.53	37.93	-1.05	2.81	2.91	-3.35
				3600	37.44	37.82	-0.99	2.89	3.01	-4.28
				3700	36.89	37.70	-1.09	3.08	3.12	-4.82
F	8/13/2019	3700	Body	3500	50.37	51.32	-1.86	3.40	3.31	2.48
				3600	50.22	51.19	-1.89	3.48	3.43	1.53
				3700	50.11	51.05	-1.84	3.59	3.55	1.27
F	8/17/2019	2600	Head	2600	38.71	39.01	-0.77	1.95	1.96	-0.72
				2495	38.83	39.14	-0.80	1.86	1.85	0.45
				2690	38.50	38.90	-1.02	2.02	2.06	-1.92
F	8/17/2019	2600	Body	2600	50.22	52.51	-4.36	2.17	2.16	0.47
				2495	50.57	52.64	-3.94	2.02	2.01	0.39
				2690	49.81	52.40	-4.94	2.30	2.29	0.51

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
G	7/5/2019	5250	Head	5250	35.68	35.93	-0.70	4.88	4.70	3.74
				5150	35.71	36.05	-0.94	4.68	4.60	1.70
				5350	35.26	35.82	-1.56	5.00	4.80	4.03
G	7/5/2019	5250	Body	5250	48.92	48.95	-0.07	5.30	5.35	-1.01
				5150	48.83	49.09	-0.52	5.05	5.24	-3.50
				5350	48.46	48.82	-0.73	5.46	5.47	-0.16
G	7/9/2019	5250	Head	5250	36.57	35.93	1.77	4.67	4.70	-0.64
				5150	36.70	36.05	1.81	4.58	4.60	-0.50
				5350	36.41	35.82	1.65	4.80	4.80	-0.16
G	7/9/2019	5250	Body	5250	47.06	48.95	-3.86	5.33	5.35	-0.47
				5150	47.19	49.09	-3.87	5.22	5.24	-0.39
				5350	46.89	48.82	-3.95	5.49	5.47	0.28
G	7/11/2019	2450	Body	2450	51.16	52.70	-2.92	1.98	1.95	1.38
				2400	51.38	52.77	-2.64	1.91	1.90	0.63
				2480	51.10	52.66	-2.97	2.02	1.99	1.15
G	7/15/2019	5600	Body	5600	47.92	48.48	-1.15	5.94	5.76	3.04
				5500	48.33	48.61	-0.58	5.81	5.64	3.00
				5725	47.66	48.31	-1.34	6.14	5.91	3.97
G	7/17/2019	2600	Body	2600	51.31	52.51	-2.29	2.20	2.16	2.00
				2495	51.68	52.64	-1.83	2.05	2.01	1.97
				2690	50.94	52.40	-2.78	2.33	2.29	1.95
G	7/18/2019	5600	Head	5600	34.55	35.53	-2.77	4.83	5.06	-4.65
				5500	34.68	35.65	-2.72	4.72	4.96	-4.88
				5725	34.35	35.39	-2.94	4.97	5.19	-4.30
G	7/18/2019	5250	Head	5250	35.00	35.93	-2.60	4.49	4.70	-4.55
				5150	35.14	36.05	-2.52	4.40	4.60	-4.32
				5350	34.86	35.82	-2.68	4.60	4.80	-4.26
G	7/18/2019	5750	Head	5750	34.31	35.36	-2.98	4.99	5.21	-4.29
				5700	34.38	35.42	-2.94	4.94	5.16	-4.39
				5850	34.20	35.30	-3.12	5.10	5.27	-3.30
G	7/21/2019	2600	Body	2600	51.73	52.51	-1.49	2.26	2.16	4.41
				2495	52.13	52.64	-0.97	2.10	2.01	4.46
				2690	51.35	52.40	-2.00	2.39	2.29	4.27
G	7/25/2019	2600	Body	2600	52.60	52.51	0.17	2.22	2.16	2.74
				2495	52.96	52.64	0.60	2.07	2.01	2.77
				2690	52.19	52.40	-0.40	2.36	2.29	3.13

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	7/5/2019	5600	Head	5600	34.53	35.53	-2.83	4.81	5.06	-4.97
				5500	34.97	35.65	-1.90	4.75	4.96	-4.29
				5725	34.25	35.39	-3.22	4.97	5.19	-4.28
H	7/5/2019	5600	Body	5600	47.16	48.48	-2.72	5.95	5.76	3.32
				5500	47.77	48.61	-1.73	5.84	5.64	3.48
				5725	46.77	48.31	-3.18	6.16	5.91	4.24
H	7/9/2019	5600	Head	5600	36.58	35.53	2.94	5.06	5.06	0.00
				5500	36.76	35.65	3.12	4.95	4.96	-0.22
				5725	36.36	35.39	2.74	5.22	5.19	0.52
H	7/9/2019	5600	Body	5600	49.53	48.48	2.17	5.60	5.76	-2.83
				5500	49.69	48.61	2.22	5.51	5.64	-2.31
				5725	49.35	48.31	2.16	5.77	5.91	-2.38
H	7/13/2019	2450	Head	2450	39.45	39.20	0.64	1.88	1.80	4.61
				2400	39.39	39.30	0.24	1.83	1.75	4.24
				2480	39.46	39.16	0.76	1.90	1.83	3.52
H	7/16/2019	2600	Head	2600	39.02	39.01	0.02	1.93	1.96	-1.44
				2495	39.02	39.14	-0.31	1.84	1.85	-0.25
				2690	38.85	38.90	-0.12	2.00	2.06	-2.69
H	7/20/2019	2600	Head	2600	39.02	39.01	0.02	1.97	1.96	0.35
				2495	39.17	39.14	0.07	1.88	1.85	1.59
				2690	38.84	38.90	-0.15	2.04	2.06	-0.90
H	7/24/2019	2600	Head	2600	40.19	39.01	3.02	1.98	1.96	0.96
				2495	40.32	39.14	3.01	1.88	1.85	1.75
				2690	40.05	38.90	2.96	2.06	2.06	-0.02
H	7/31/2019	2600	Head	2600	38.06	39.01	-2.44	1.90	1.96	-3.17
				2495	38.20	39.14	-2.41	1.82	1.85	-1.71
				2690	37.88	38.90	-2.62	1.97	2.06	-4.44
H	8/14/2019	3500	Body	3500	50.20	51.32	-2.19	3.43	3.31	3.66
				3600	50.00	51.19	-2.32	3.57	3.43	4.21
				3700	49.66	51.05	-2.73	3.72	3.55	4.85
H	8/14/2019	3500	Head	3500	38.05	37.93	0.32	2.89	2.91	-0.60
				3600	37.92	37.82	0.28	2.93	3.01	-2.75
				3700	37.62	37.70	-0.22	3.03	3.12	-2.80
H	8/16/2019	3500	Body	3500	51.02	51.32	-0.59	3.34	3.31	0.91
				3600	50.67	51.19	-1.01	3.47	3.43	1.09
				3700	50.36	51.05	-1.35	3.59	3.55	1.27
H	8/16/2019	3500	Head	3500	37.81	37.93	-0.32	3.00	2.91	3.17
				3600	37.57	37.82	-0.65	3.11	3.01	3.22
				3700	37.35	37.70	-0.93	3.21	3.12	2.95

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
6	7/10/2019	3500	Head	3500	38.05	37.93	0.32	2.83	2.91	-2.80
				3600	37.85	37.82	0.09	2.93	3.01	-2.95
				3700	37.67	37.70	-0.08	3.02	3.12	-3.06
6	7/10/2019	3500	Body	3500	52.32	51.32	1.94	3.41	3.31	3.05
				3600	52.12	51.19	1.82	3.50	3.43	2.09
				3700	51.74	51.05	1.35	3.62	3.55	1.97
6	7/14/2019	3500	Head	3500	39.00	37.93	2.82	2.78	2.91	-4.49
				3600	38.84	37.82	2.71	2.87	3.01	-4.64
				3700	38.68	37.70	2.60	2.97	3.12	-4.72
6	7/14/2019	3500	Body	3500	51.19	51.32	-0.26	3.45	3.31	3.99
				3600	50.93	51.19	-0.50	3.58	3.43	4.36
				3700	50.66	51.05	-0.77	3.72	3.55	4.79
6	7/17/2019	3500	Head	3500	39.61	37.93	4.43	2.80	2.91	-3.73
				3600	39.44	37.82	4.30	2.90	3.01	-3.85
				3700	39.27	37.70	4.16	2.99	3.12	-3.95
6	7/17/2019	3500	Body	3500	51.89	51.32	1.11	3.33	3.31	0.55
				3600	51.63	51.19	0.87	3.46	3.43	0.92
				3700	51.37	51.05	0.62	3.59	3.55	1.24
6	7/21/2019	1900	Head	1900	39.96	40.00	-0.10	1.46	1.40	4.14
				1850	40.03	40.00	0.08	1.43	1.40	1.93
				1920	39.89	40.00	-0.27	1.47	1.40	4.93
6	7/22/2019	750	Head	750	41.43	41.96	-1.27	0.89	0.89	-0.15
				660	41.90	42.42	-1.23	0.86	0.89	-3.05
				800	41.29	41.71	-1.00	0.91	0.90	1.18
6	7/26/2019	3500	Body	3500	50.49	51.32	-1.62	3.16	3.31	-4.68
				3600	50.26	51.19	-1.81	3.29	3.43	-4.21
				3700	50.01	51.05	-2.04	3.41	3.55	-3.75

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
7	7/1/2019	835	Body	835	53.39	55.20	-3.28	1.02	0.97	4.74
				805	53.37	55.33	-3.55	1.00	0.97	3.69
				850	53.39	55.16	-3.20	1.02	0.99	3.63
7	7/5/2019	835	Head	835	40.02	41.50	-3.57	0.90	0.90	-0.10
				805	40.28	41.68	-3.36	0.89	0.90	-0.46
				850	39.94	41.50	-3.76	0.90	0.92	-1.62
7	7/5/2019	835	Body	835	52.89	55.20	-4.18	0.99	0.97	2.44
				805	53.11	55.33	-4.02	0.99	0.97	2.14
				850	52.82	55.16	-4.24	0.99	0.99	0.78
7	7/9/2019	835	Head	835	41.57	41.50	0.17	0.98	0.90	9.24
				805	41.59	41.68	-0.21	0.96	0.90	7.22
				850	41.54	41.50	0.10	0.99	0.92	8.10
7	7/9/2019	835	Body	835	52.66	55.20	-4.60	0.94	0.97	-3.49
				805	52.77	55.33	-4.63	0.94	0.97	-3.30
				850	52.63	55.16	-4.58	0.94	0.99	-4.90
7	7/10/2019	835	Head	835	41.40	41.50	-0.24	0.93	0.90	3.56
				805	41.44	41.68	-0.57	0.92	0.90	2.54
				850	41.39	41.50	-0.27	0.94	0.92	2.30
7	7/13/2019	835	Head	835	41.67	41.50	0.41	0.94	0.90	4.03
				805	41.85	41.68	0.41	0.92	0.90	2.68
				850	41.61	41.50	0.27	0.94	0.92	2.57
7	7/13/2019	835	Body	835	54.51	55.20	-1.25	0.98	0.97	1.09
				805	54.74	55.33	-1.07	0.97	0.97	0.29
				850	54.45	55.16	-1.28	0.98	0.99	-0.31
7	7/17/2019	2600	Body	2600	51.79	52.51	-1.37	2.22	2.16	2.51
				2495	51.95	52.64	-1.32	2.11	2.01	4.76
				2690	51.63	52.40	-1.46	2.29	2.29	0.21
7	7/18/2019	1900	Body	1900	52.60	53.30	-1.31	1.54	1.52	1.38
				1850	52.70	53.30	-1.13	1.51	1.52	-0.59
				1920	52.54	53.30	-1.43	1.55	1.52	2.11
7	7/21/2019	2600	Body	2600	51.50	52.51	-1.92	2.17	2.16	0.56
				2495	51.65	52.64	-1.89	2.06	2.01	2.47
				2690	51.34	52.40	-2.02	2.25	2.29	-1.50
7	7/23/2019	835	Body	835	55.39	55.20	0.34	1.01	0.97	4.02
				805	55.46	55.33	0.23	1.00	0.97	2.96
				850	55.36	55.16	0.37	1.01	0.99	2.72
7	7/23/2019	2600	Head	2600	39.62	39.01	1.56	2.00	1.96	1.93
				2495	39.84	39.14	1.78	1.90	1.85	2.56
				2690	39.28	38.90	0.98	2.08	2.06	0.95
7	7/29/2019	835	Body	835	53.21	55.20	-3.61	0.98	0.97	1.44
				805	53.22	55.33	-3.82	0.97	0.97	0.23
				850	53.16	55.16	-3.62	0.99	0.99	0.31

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
8	7/17/2019	2300	Head	2300	40.77	39.47	3.29	1.72	1.66	3.20
				2350	40.72	39.38	3.39	1.76	1.71	3.06
				2400	40.67	39.30	3.49	1.80	1.75	2.65
8	7/19/2019	2600	Head	2600	38.97	39.01	-0.10	1.95	1.96	-0.82
				2495	39.12	39.14	-0.06	1.86	1.85	0.51
				2690	38.81	38.90	-0.22	2.01	2.06	-2.64
8	7/22/2019	835	Head	835	41.68	41.50	0.43	0.94	0.90	4.44
				805	41.65	41.68	-0.07	0.93	0.90	3.62
				850	41.66	41.50	0.39	0.95	0.92	3.53
9	7/2/2019	750	Head	750	42.00	41.96	0.09	0.92	0.89	2.72
				660	42.22	42.42	-0.48	0.89	0.89	0.33
				800	41.67	41.71	-0.08	0.93	0.90	4.07
9	7/2/2019	750	Body	750	53.72	55.55	-3.29	0.99	0.96	2.43
				660	54.60	55.89	-2.31	0.90	0.96	-6.32
				800	53.21	55.35	-3.87	1.04	0.97	7.35
9	7/3/2019	750	Body	750	56.70	55.55	2.08	0.94	0.96	-1.90
				660	57.70	55.89	3.23	0.87	0.96	-9.38
				800	56.33	55.35	1.76	0.99	0.97	1.87
9	7/3/2019	750	Body	750	54.39	55.55	-2.08	0.96	0.96	-0.46
				660	55.45	55.89	-0.79	0.88	0.96	-8.09
				800	53.83	55.35	-2.75	1.01	0.97	3.94
9	7/4/2019	750	Body	750	58.97	55.55	6.16	0.95	0.96	-1.37
				660	58.59	55.89	4.83	0.88	0.96	-8.44
				800	57.79	55.35	4.40	0.98	0.97	1.50
9	7/5/2019	750	Body	750	53.63	55.55	-3.45	0.97	0.96	0.76
				660	54.74	55.89	-2.06	0.89	0.96	-6.72
				800	53.15	55.35	-3.98	1.01	0.97	4.77
9	7/6/2019	750	Body	750	53.45	55.55	-3.77	0.96	0.96	-0.37
				660	54.36	55.89	-2.74	0.87	0.96	-8.69
				800	52.83	55.35	-4.56	1.00	0.97	3.83
9	7/6/2019	750	Head	750	40.79	41.96	-2.79	0.90	0.89	0.63
				660	40.71	42.42	-4.04	0.87	0.89	-1.96
				800	40.43	41.71	-3.06	0.91	0.90	1.60

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
9	7/7/2019	750	Body	750	55.16	55.55	-0.70	0.94	0.96	-2.02
				660	56.52	55.89	1.12	0.87	0.96	-9.29
				800	54.91	55.35	-0.80	0.98	0.97	1.80
9	7/8/2019	750	Body	750	53.77	55.55	-3.20	0.95	0.96	-1.04
				660	55.05	55.89	-1.51	0.88	0.96	-8.02
				800	53.23	55.35	-3.84	1.00	0.97	3.02
9	7/9/2019	750	Body	750	53.38	55.55	-3.90	0.95	0.96	-1.41
				660	54.30	55.89	-2.85	0.87	0.96	-9.49
				800	52.63	55.35	-4.92	0.99	0.97	2.69
9	7/10/2019	750	Body	750	55.26	55.55	-0.52	0.99	0.96	2.52
				660	55.52	55.89	-0.67	0.90	0.96	-5.84
				800	54.70	55.35	-1.18	1.04	0.97	7.14
9	7/10/2019	750	Head	750	40.60	41.96	-3.24	0.87	0.89	-2.11
				660	40.57	42.42	-4.37	0.85	0.89	-3.81
				800	40.52	41.71	-2.84	0.89	0.90	-0.93
9	7/11/2019	750	Body	750	59.89	55.55	7.82	1.02	0.96	5.50
				660	61.30	55.89	9.68	0.96	0.96	0.02
				800	59.86	55.35	8.14	1.04	0.97	7.97
9	7/12/2019	750	Body	750	57.70	55.55	3.88	0.93	0.96	-3.94
				660	58.34	55.89	4.38	0.86	0.96	-9.62
				800	57.19	55.35	3.32	0.95	0.97	-1.84
9	7/13/2019	750	Body	750	58.93	55.55	6.09	0.93	0.96	-3.00
				660	59.32	55.89	6.13	0.88	0.96	-8.35
				800	58.21	55.35	5.16	0.96	0.97	-0.33
9	7/13/2019	1750	Head	1750	38.20	40.08	-4.70	1.39	1.37	1.46
				1710	38.25	40.15	-4.72	1.36	1.35	1.16
				1755	38.22	40.08	-4.63	1.39	1.37	1.47
9	7/14/2019	2600	Head	2600	37.35	39.01	-4.26	1.95	1.96	-0.77
				2495	37.45	39.14	-4.33	1.85	1.85	-0.04
				2690	37.19	38.90	-4.39	2.01	2.06	-2.26
9	7/18/2019	2600	Head	2600	37.21	39.01	-4.62	1.98	1.96	0.86
				2495	37.35	39.14	-4.58	1.88	1.85	1.91
				2690	37.03	38.90	-4.80	2.05	2.06	-0.70
9	7/21/2019	1900	Head	1900	40.06	40.00	0.15	1.47	1.40	4.93
				1850	40.09	40.00	0.23	1.44	1.40	2.86
				1920	39.99	40.00	-0.02	1.48	1.40	5.43
9	7/22/2019	750	Body	750	53.42	55.55	-3.83	0.97	0.96	0.62
				660	54.30	55.89	-2.85	0.88	0.96	-8.22
				800	52.60	55.35	-4.97	1.01	0.97	4.87
9	7/23/2019	750	Body	750	55.38	55.55	-0.30	1.00	0.96	4.04
				660	56.20	55.89	0.55	0.91	0.96	-4.86
				800	54.77	55.35	-1.05	1.04	0.97	7.97
9	7/24/2019	750	Body	750	52.83	55.55	-4.89	0.96	0.96	-0.23
				660	53.88	55.89	-3.60	0.88	0.96	-8.18
				800	52.24	55.35	-5.63	1.01	0.97	4.35

8.2. System Check

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

System Performance Check Measurement Conditions:

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

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 $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

SAR Lab	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 $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
A	7/14/2019	Head	D2600V2 SN:1036	3/22/2020	5.830	58.30	55.90	4.29	2.610	26.10	24.80	5.24	
A	7/14/2019	Body	D2600V2 SN:1036	3/22/2020	5.680	56.80	53.90	5.38	2.510	25.10	23.90	5.02	
A	7/18/2019	Head	D2600V2 SN:1036	3/22/2020	5.680	56.80	55.90	1.61	2.560	25.60	24.80	3.23	
A	7/18/2019	Body	D2600V2 SN:1036	3/22/2020	4.960	49.60	53.90	-7.98	2.230	22.30	23.90	-6.69	1,2
A	7/22/2019	Head	D2600V2 SN:1036	3/22/2020	5.960	59.60	55.90	6.62	2.640	26.40	24.80	6.45	
A	7/22/2019	Body	D2600V2 SN:1036	3/22/2020	5.070	50.70	53.90	-5.94	2.350	23.50	23.90	-1.67	
A	7/26/2019	Head	D2600V2 SN:1036	3/22/2020	5.770	57.70	55.90	3.22	2.600	26.00	24.80	4.84	
A	7/26/2019	Body	D2600V2 SN:1036	3/22/2020	5.740	57.40	53.90	6.49	2.540	25.40	23.90	6.28	
A	7/29/2019	Head	D2600V2 SN:1036	3/22/2020	5.900	59.00	55.90	5.55	2.690	26.90	24.80	8.47	
A	7/29/2019	Body	D2600V2 SN:1036	3/22/2020	5.400	54.00	53.90	0.19	2.460	24.60	23.90	2.93	
A	8/8/2019	Head	D2600V2 SN:1006	10/16/2019	6.140	61.40	59.31	3.52	2.790	27.90	26.43	5.56	3,4
A	8/8/2019	Body	D2600V2 SN:1006	10/16/2019	5.660	56.60	58.52	-3.28	2.550	25.50	26.15	-2.49	
B	7/6/2019	Head	D1750V2 SN:1050	4/17/2020	3.530	35.30	35.40	-0.28	1.890	18.90	18.60	1.61	
B	7/6/2019	Body	D1750V2 SN:1050	4/17/2020	3.710	37.10	36.40	1.92	1.980	19.80	19.20	3.13	
B	7/10/2019	Head	D1750V2 SN:1050	4/17/2020	3.550	35.50	35.40	0.28	1.880	18.80	18.60	1.08	
B	7/10/2019	Body	D1750V2 SN:1050	4/17/2020	3.670	36.70	36.40	0.82	1.950	19.50	19.20	1.56	
B	7/14/2019	Head	D1750V2 SN:1050	4/17/2020	3.780	37.80	35.40	6.78	1.990	19.90	18.60	6.99	5,6
B	7/14/2019	Body	D1750V2 SN:1050	4/17/2020	3.870	38.70	36.40	6.32	2.040	20.40	19.20	6.25	
B	7/18/2019	Head	D1750V2 SN:1050	4/17/2020	3.640	36.40	35.40	2.82	1.920	19.20	18.60	3.23	
B	7/18/2019	Body	D1750V2 SN:1050	4/17/2020	3.800	38.00	36.40	4.40	1.990	19.90	19.20	3.65	
B	7/21/2019	Body	D1900V2 SN:5d140	4/17/2020	4.410	44.10	40.40	9.16	2.280	22.80	21.30	7.04	7,8
B	7/22/2019	Head	D1750V2 SN:1050	4/17/2020	3.710	37.10	35.40	4.80	1.950	19.50	18.60	4.84	
B	7/22/2019	Body	D1750V2 SN:1050	4/17/2020	3.870	38.70	36.40	6.32	2.030	20.30	19.20	5.73	
B	7/26/2019	Body	D1750V2 SN:1050	4/17/2020	3.960	39.60	36.40	8.79	2.060	20.60	19.20	7.29	
B	7/30/2019	Head	D2600V2 SN:1036	3/22/2020	5.740	57.40	55.90	2.68	2.560	25.60	24.80	3.23	9,10
B	8/2/2019	Head	D1900V2 SN:5d163	10/16/2019	4.310	43.10	42.19	2.16	2.210	22.10	21.73	1.70	11,12
B	8/9/2019	Head	D1900V2 SN:5d163	10/16/2019	4.140	41.40	42.19	-1.87	2.140	21.40	21.73	-1.52	
B	8/9/2019	Body	D1900V2 SN:5d163	10/16/2019	4.290	42.90	42.59	0.73	2.220	22.20	22.17	0.14	
B	8/21/2019	Head	D1750V2 SN:1050	4/17/2020	3.740	37.40	35.40	5.65	1.970	19.70	18.60	5.91	
B	8/21/2019	Body	D1750V2 SN:1050	4/17/2020	3.830	38.30	36.40	5.22	2.000	20.00	19.20	4.17	

SAR Lab	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 %	
C	7/6/2019	Body	D1900V2 SN:5d140	4/17/2020	4.060	40.60	40.40	0.50	2.090	20.90	21.30	-1.88	
C	7/6/2019	Head	D1900V2 SN:5d140	4/17/2020	3.760	37.60	39.50	-4.81	1.900	19.00	20.60	-7.77	
C	7/10/2019	Body	D1900V2 SN:5d140	4/17/2020	4.180	41.80	40.40	3.47	2.190	21.90	21.30	2.82	
C	7/10/2019	Head	D1900V2 SN:5d140	4/17/2020	4.210	42.10	39.50	6.58	2.140	21.40	20.60	3.88	
C	7/14/2019	Body	D1900V2 SN:5d140	4/17/2020	3.920	39.20	40.40	-2.97	2.000	20.00	21.30	-6.10	
C	7/14/2019	Head	D1900V2 SN:5d140	4/17/2020	4.120	41.20	39.50	4.30	2.110	21.10	20.60	2.43	
C	7/17/2019	Body	D1900V2 SN:5d140	4/17/2020	4.400	44.00	40.40	8.91	2.280	22.80	21.30	7.04	13,14
C	7/17/2019	Head	D1900V2 SN:5d140	4/17/2020	4.060	40.60	39.50	2.78	2.090	20.90	20.60	1.46	
C	7/21/2019	Body	D1900V2 SN:5d140	4/17/2020	4.330	43.30	40.40	7.18	2.270	22.70	21.30	6.57	
C	7/21/2019	Head	D1900V2 SN:5d140	4/17/2020	4.220	42.20	39.50	6.84	2.170	21.70	20.60	5.34	
C	7/25/2019	Head	D1900V2 SN:5d140	4/17/2020	4.260	42.60	39.50	7.85	2.180	21.80	20.60	5.83	
C	7/25/2019	Body	D1900V2 SN:5d140	4/17/2020	3.980	39.80	40.40	-1.49	2.110	21.10	21.30	-0.94	
C	8/9/2019	Head	D1750V2 SN:1077	10/16/2019	3.620	36.20	38.69	-6.44	1.930	19.30	20.46	-5.67	15,16
C	8/9/2019	Body	D1750V2 SN:1077	10/16/2019	3.740	37.40	39.29	-4.81	2.010	20.10	21.05	-4.51	
D	7/10/2019	Head	D2300V2 SN:1002	3/22/2020	4.950	49.50	48.30	2.48	2.350	23.50	23.30	0.86	
D	7/10/2019	Body	D2300V2 SN:1002	3/22/2020	4.300	43.00	46.80	-8.12	2.060	20.60	22.60	-8.85	17,18
D	7/13/2019	Head	D2600V2 SN:1036	3/22/2020	5.490	54.90	55.90	-1.79	2.460	24.60	24.80	-0.81	
D	7/13/2019	Body	D2600V2 SN:1036	3/22/2020	4.990	49.90	53.90	-7.42	2.330	23.30	23.90	-2.51	19,20
D	7/14/2019	Head	D2300V2 SN:1002	3/22/2020	4.920	49.20	48.30	1.86	2.330	23.30	23.30	0.00	
D	7/14/2019	Body	D2300V2 SN:1002	3/22/2020	4.720	47.20	46.80	0.85	2.270	22.70	22.60	0.44	
D	7/17/2019	Head	D2300V2 SN:1002	3/22/2020	4.940	49.40	48.30	2.28	2.360	23.60	23.30	1.29	
D	7/17/2019	Body	D2300V2 SN:1002	3/22/2020	4.490	44.90	46.80	-4.06	2.210	22.10	22.60	-2.21	
D	7/21/2019	Body	D2300V2 SN:1002	3/22/2020	4.620	46.20	46.80	-1.28	2.200	22.00	22.60	-2.65	
D	7/21/2019	Head	D2300V2 SN:1002	3/22/2020	5.210	52.10	48.30	7.87	2.490	24.90	23.30	6.87	
D	7/21/2019	Head	D1900V2 SN:5d140	4/17/2020	4.100	41.00	39.50	3.80	2.120	21.20	20.60	2.91	21,22
D	7/22/2019	Head	D2600V2 SN:1036	3/22/2020	5.600	56.00	55.90	0.18	2.520	25.20	24.80	1.61	
D	7/24/2019	Body	D2600V2 SN:1036	3/22/2020	5.370	53.70	53.90	-0.37	2.410	24.10	23.90	0.84	
D	7/24/2019	Head	D2600V2 SN:1036	3/22/2020	5.660	56.60	55.90	1.25	2.550	25.50	24.80	2.82	
D	7/25/2019	Body	D2300V2 SN:1002	3/22/2020	4.450	44.50	46.80	-4.91	2.170	21.70	22.60	-3.98	
D	7/26/2019	Head	D2300V2 SN:1002	3/22/2020	5.080	50.80	48.30	5.18	2.430	24.30	23.30	4.29	
D	7/29/2019	Head	D2600V2 SN:1036	3/22/2020	5.650	56.50	55.90	1.07	2.530	25.30	24.80	2.02	
D	7/29/2019	Body	D2600V2 SN:1036	3/22/2020	5.090	50.90	53.90	-5.57	2.280	22.80	23.90	-4.60	
D	8/6/2019	Head	D2600V2 SN:1006	10/16/2019	5.710	57.10	59.31	-3.73	2.570	25.70	26.43	-2.76	
D	8/6/2019	Body	D2600V2 SN:1006	10/16/2019	5.370	53.70	58.52	-8.24	2.410	24.10	26.15	-7.84	23,24
D	8/9/2019	Head	D2300V2 SN:1002	3/22/2020	4.830	48.30	48.30	0.00	2.310	23.10	23.30	-0.86	
D	8/9/2019	Body	D2300V2 SN:1002	3/22/2020	4.710	47.10	46.80	0.64	2.210	22.10	22.60	-2.21	
D	8/13/2019	Head	D2300V2 SN:1002	3/22/2020	5.000	50.00	48.30	3.52	2.400	24.00	23.30	3.00	
D	8/13/2019	Body	D2300V2 SN:1002	3/22/2020	4.550	45.50	46.80	-2.78	2.180	21.80	22.60	-3.54	

SAR Lab	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 %	
E	7/2/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.770	77.70	80.80	-3.84	2.220	22.20	23.00	-3.48	
E	7/2/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.360	73.60	70.70	4.10	2.050	20.50	19.70	4.06	
E	7/6/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.540	75.40	80.80	-6.68	2.160	21.60	23.00	-6.09	
E	7/6/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.490	74.90	70.70	5.94	2.090	20.90	19.70	6.09	
E	7/9/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.350	73.50	80.80	-9.03	2.100	21.00	23.00	-8.70	25,26
E	7/9/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.110	71.10	70.70	0.57	1.980	19.80	19.70	0.51	
E	7/10/2019	Body	D2450V2 SN:899	3/22/2020	5.350	53.50	50.00	7.00	2.520	25.20	23.50	7.23	27,28
E	7/13/2019	Body	D2600V2 SN:1036	3/22/2020	5.650	56.50	53.90	4.82	2.490	24.90	23.90	4.18	
E	7/17/2019	Body	D2600V2 SN:1036	3/22/2020	5.700	57.00	53.90	5.75	2.510	25.10	23.90	5.02	
E	7/21/2019	Body	D2600V2 SN:1036	3/22/2020	5.770	57.70	53.90	7.05	2.540	25.40	23.90	6.28	29,30
E	7/30/2019	Body	D2600V2 SN:1036	3/22/2020	5.660	56.60	53.90	5.01	2.530	25.30	23.90	5.86	
E	8/16/2019	Body	D3500V2 SN:1011	5/13/2020	6.190	61.90	66.00	-6.21	2.300	23.00	24.40	-5.74	31,32
E	8/16/2019	Body	D3700V2 SN:1039	6/12/2020	5.980	59.80	62.90	-4.93	2.150	21.50	22.50	-4.44	33,34
E	8/21/2019	Body	D2600V2 SN:1006	10/16/2019	6.120	61.20	58.52	4.58	2.640	26.40	26.15	0.96	35,36
F	7/5/2019	Body	D2450V2 SN:899	3/22/2020	4.870	48.70	50.00	-2.60	2.240	22.40	23.50	-4.68	
F	7/5/2019	Head	D2450V2 SN:899	3/22/2020	5.260	52.60	51.60	1.94	2.390	23.90	24.10	-0.83	
F	7/9/2019	Head	D2450V2 SN:899	3/22/2020	4.960	49.60	51.60	-3.88	2.260	22.60	24.10	-6.22	
F	7/9/2019	Body	D2450V2 SN:899	3/22/2020	5.340	53.40	50.00	6.80	2.440	24.40	23.50	3.83	
F	7/13/2019	Body	D2450V2 SN:899	3/22/2020	5.360	53.60	50.00	7.20	2.460	24.60	23.50	4.68	37,38
F	7/13/2019	Head	D2450V2 SN:899	3/22/2020	5.010	50.10	51.60	-2.91	2.280	22.80	24.10	-5.39	
F	7/17/2019	Head	D2450V2 SN:899	3/22/2020	5.110	51.10	51.60	-0.97	2.310	23.10	24.10	-4.15	
F	7/17/2019	Body	D2450V2 SN:899	3/22/2020	4.970	49.70	50.00	-0.60	2.280	22.80	23.50	-2.98	
F	7/23/2019	Head	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	8.820	88.20	81.70	7.96	2.540	25.40	23.40	8.55	
F	7/23/2019	Head	D5GHzV2 SN:1168 (5.60 GHz)	11/30/2019	9.400	94.00	87.00	8.05	2.670	26.70	24.70	8.10	39,40
F	7/23/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.720	77.20	80.80	-4.46	2.220	22.20	23.00	-3.48	
F	7/30/2019	Body	D2600V2 SN:1036	3/22/2020	5.580	55.80	53.90	3.53	2.390	23.90	23.90	0.00	41,42
F	8/9/2019	Head	D2300V2 SN:1002	3/22/2020	5.030	50.30	48.30	4.14	2.390	23.90	23.30	2.58	43,44
F	8/9/2019	Body	D2300V2 SN:1002	3/22/2020	4.780	47.80	46.80	2.14	2.270	22.70	22.60	0.44	
F	8/9/2019	Head	D3700V2 SN:1039	6/12/2020	6.850	68.50	66.50	3.01	2.530	25.30	24.20	4.55	
F	8/9/2019	Body	D3700V2 SN:1039	6/12/2020	6.580	65.80	62.90	4.61	2.390	23.90	22.50	6.22	
F	8/13/2019	Head	D3700V2 SN:1039	6/12/2020	7.040	70.40	66.50	5.86	2.610	26.10	24.20	7.85	45,46
F	8/13/2019	Body	D3700V2 SN:1039	6/12/2020	6.490	64.90	62.90	3.18	2.340	23.40	22.50	4.00	
F	8/17/2019	Body	D2600V2 SN:1006	10/16/2019	5.720	57.20	58.52	-2.26	2.510	25.10	26.15	-4.02	47,48
F	8/17/2019	Head	D2600V2 SN:1006	10/16/2019	5.840	58.40	59.31	-1.53	2.610	26.10	26.43	-1.25	

SAR Lab	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	7/5/2019	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/19/2020	7.340	73.40	80.80	-9.16	2.100	21.00	23.30	-9.87	49,50
G	7/5/2019	Body	D5GHzV2 SN:1003 (5.25 GHz)	2/19/2020	6.830	68.30	74.40	-8.20	1.930	19.30	20.80	-7.21	
G	7/9/2019	Head	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	8.290	82.90	81.70	1.47	2.380	23.80	23.40	1.71	
G	7/9/2019	Body	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	7.120	71.20	71.20	0.00	2.020	20.20	19.90	1.51	
G	7/11/2019	Body	D2450V2 SN:899	3/22/2020	4.950	49.50	50.00	-1.00	2.280	22.80	23.50	-2.98	51,52
G	7/15/2019	Body	D5GHzV2 SN:1003 (5.60 GHz)	2/19/2020	8.620	86.20	79.30	8.70	2.410	24.10	22.30	8.07	
G	7/17/2019	Body	D2600V2 SN:1036	3/22/2020	5.480	54.80	53.90	1.67	2.420	24.20	23.90	1.26	
G	7/18/2019	Head	D5GHzV2 SN:1168 (5.60 GHz)	11/30/2019	8.560	85.60	87.00	-1.61	2.430	24.30	24.70	-1.62	
G	7/18/2019	Head	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	7.690	76.90	81.70	-5.88	2.220	22.20	23.40	-5.13	
G	7/18/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.570	75.70	80.80	-6.31	2.180	21.80	23.00	-5.22	53,54
G	7/21/2019	Body	D2600V2 SN:1036	3/22/2020	5.550	55.50	53.90	2.97	2.430	24.30	23.90	1.67	55,56
G	7/25/2019	Body	D2600V2 SN:1036	3/22/2020	5.510	55.10	53.90	2.23	2.410	24.10	23.90	0.84	
H	7/5/2019	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/19/2020	8.870	88.70	82.70	7.26	2.500	25.00	23.80	5.04	57,58
H	7/5/2019	Body	D5GHzV2 SN:1003 (5.60 GHz)	2/19/2020	8.440	84.40	79.30	6.43	2.370	23.70	22.30	6.28	
H	7/9/2019	Head	D5GHzV2 SN:1168 (5.60 GHz)	11/30/2019	8.160	81.60	87.00	-6.21	2.300	23.00	24.70	-6.88	59,60
H	7/9/2019	Body	D5GHzV2 SN:1168 (5.60 GHz)	11/30/2019	7.580	75.80	76.20	-0.52	2.130	21.30	21.20	0.47	
H	7/13/2019	Head	D2450V2 SN:899	12/1/2019	5.470	54.70	51.60	6.01	2.520	25.20	24.10	4.56	61,62
H	7/16/2019	Head	D2600V2 SN:1036	12/2/2019	6.040	60.40	55.90	8.05	2.690	26.90	24.80	8.47	63,64
H	7/20/2019	Head	D2600V2 SN:1036	12/3/2019	5.380	53.80	55.90	-3.76	2.390	23.90	24.80	-3.63	
H	7/24/2019	Head	D2600V2 SN:1036	12/4/2019	6.030	60.30	55.90	7.87	2.680	26.80	24.80	8.06	
H	7/31/2019	Head	D2600V2 SN:1036	12/5/2019	5.370	53.70	55.90	-3.94	2.400	24.00	24.80	-3.23	
H	8/14/2019	Head	D3500V2 SN:1011	12/6/2019	6.830	68.30	64.50	5.89	2.620	26.20	24.30	7.82	
H	8/14/2019	Body	D3500V2 SN:1011	12/7/2019	7.000	70.00	66.00	6.06	2.590	25.90	24.40	6.15	65,66
H	8/14/2019	Head	D3700V2 SN:1039	12/8/2019	6.690	66.90	66.50	0.60	2.470	24.70	24.20	2.07	
H	8/14/2019	Body	D3700V2 SN:1039	12/9/2019	6.570	65.70	62.90	4.45	2.400	24.00	22.50	6.67	67,68
H	8/16/2019	Body	D3500V2 SN:1011	12/10/2019	6.480	64.80	66.00	-1.82	2.410	24.10	24.40	-1.23	
H	8/16/2019	Body	D3700V2 SN:1039	12/11/2019	6.370	63.70	62.90	1.27	2.290	22.90	22.50	1.78	
H	8/16/2019	Head	D3500V2 SN:1011	12/12/2019	6.430	64.30	64.50	-0.31	2.470	24.70	24.30	1.65	
H	8/16/2019	Head	D3700V2 SN:1039	12/13/2019	6.670	66.70	66.50	0.30	2.480	24.80	24.20	2.48	

SAR Lab	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 %	
6	7/10/2019	Head	D3500V2 SN:1011	5/13/2020	6.460	64.60	64.50	0.16	2.460	24.60	24.30	1.23	
6	7/10/2019	Body	D3500V2 SN:1011	5/13/2020	6.090	60.90	66.00	-7.73	2.210	22.10	24.40	-9.43	
6	7/10/2019	Head	D3700V2 SN:1039	6/12/2020	6.430	64.30	66.50	-3.31	2.390	23.90	24.20	-1.24	
6	7/10/2019	Body	D3700V2 SN:1039	6/12/2020	6.020	60.20	62.90	-4.29	2.120	21.20	22.50	-5.78	
6	7/14/2019	Head	D3500V2 SN:1011	5/13/2020	6.000	60.00	64.50	-6.98	2.290	22.90	24.30	-5.76	
6	7/14/2019	Body	D3500V2 SN:1011	5/13/2020	6.120	61.20	66.00	-7.27	2.220	22.20	24.40	-9.02	69,70
6	7/14/2019	Head	D3700V2 SN:1039	6/12/2020	6.470	64.70	66.50	-2.71	2.390	23.90	24.20	-1.24	
6	7/14/2019	Body	D3700V2 SN:1039	6/12/2020	6.600	66.00	62.90	4.93	2.300	23.00	22.50	2.22	
6	7/17/2019	Head	D3500V2 SN:1011	5/13/2020	6.360	63.60	64.50	-1.40	2.420	24.20	24.30	-0.41	
6	7/17/2019	Body	D3500V2 SN:1011	5/13/2020	6.340	63.40	66.00	-3.94	2.360	23.60	24.40	-3.28	
6	7/18/2019	Head	D3700V2 SN:1039	6/12/2020	6.490	64.90	66.50	-2.41	2.410	24.10	24.20	-0.41	
6	7/18/2019	Body	D3700V2 SN:1039	6/12/2020	6.090	60.90	62.90	-3.18	2.230	22.30	22.50	-0.89	
6	7/21/2019	Head	D1900V2 SN:5d043	11/29/2019	4.390	43.90	41.80	5.02	2.250	22.50	21.69	3.73	71,72,
6	7/22/2019	Head	D750V3 SN:1071	11/28/2019	0.844	8.44	8.32	1.44	0.550	5.50	5.45	0.92	73,74
6	7/26/2019	Body	D3700V2 SN:1039	6/12/2020	5.800	58.00	62.90	-7.79	2.030	20.30	22.50	-9.78	75,76
6	7/26/2019	Body	D3500V2 SN:1011	5/13/2020	6.430	64.30	66.00	-2.58	2.410	24.10	24.40	-1.23	
7	7/1/2019	Body	D835V2 SN:4d002	11/28/2019	0.976	9.76	10.07	-3.08	0.631	6.31	6.56	-3.81	
7	7/5/2019	Head	D835V2 SN:4d117	5/15/2020	0.956	9.56	9.50	0.63	0.621	6.21	6.17	0.65	
7	7/5/2019	Body	D835V2 SN:4d117	5/15/2020	0.992	9.92	9.68	2.48	0.641	6.41	6.32	1.42	
7	7/9/2019	Head	D835V2 SN:4d117	5/15/2020	1.040	10.40	9.50	9.47	0.676	6.76	6.17	9.56	77,78
7	7/9/2019	Body	D835V2 SN:4d117	5/15/2020	0.930	9.30	9.68	-3.93	0.602	6.02	6.32	-4.75	
7	7/13/2019	Head	D835V2 SN:4d002	11/28/2019	0.957	9.57	9.87	-3.04	0.618	6.18	6.36	-2.83	
7	7/13/2019	Body	D835V2 SN:4d002	11/28/2019	0.926	9.26	10.07	-8.04	0.597	5.97	6.56	-8.99	79,80
7	7/17/2019	Body	D2600V2 SN:1006	10/16/2019	5.710	57.10	58.52	-2.43	2.480	24.80	26.15	-5.16	81,82
7	7/18/2019	Body	D1900V2 SN:5d043	11/29/2019	4.120	41.20	40.20	2.49	2.130	21.30	20.82	2.31	83,84
7	7/21/2019	Body	D2600V2 SN:1006	10/16/2019	5.730	57.30	58.52	-2.08	2.490	24.90	26.15	-4.78	
7	7/23/2019	Body	D835V2 SN:4d117	5/15/2020	1.000	10.00	9.68	3.31	0.644	6.44	6.32	1.90	85,86
7	7/23/2019	Head	D2600V2 SN:1006	10/16/2019	6.000	60.00	59.31	1.16	2.690	26.90	26.43	1.78	
7	7/29/2019	Body	D835V2 SN:4d002	11/28/2019	1.020	10.20	10.07	1.29	0.655	6.55	6.56	-0.15	
8	7/17/2019	Head	D2300V2 SN:1058	10/2/2019	4.820	48.20	51.75	-6.86	2.280	22.80	24.52	-7.01	87,88
8	7/19/2019	Head	D2600V2 SN:1006	10/16/2019	5.840	58.40	59.31	-1.53	2.600	26.00	26.43	-1.63	89,90
8	7/22/2019	Head	D835V2 SN:4d117	5/15/2020	0.987	9.87	9.50	3.89	0.644	6.44	6.17	4.38	91,92
9	7/2/2019	Head	D750V3 SN:1019	3/21/2020	0.815	8.15	8.29	-1.69	0.538	5.38	5.44	-1.10	
9	7/2/2019	Body	D750V3 SN:1019	3/21/2020	0.892	8.92	8.47	5.31	0.594	5.94	5.59	6.26	93,94
9	7/6/2019	Head	D750V3 SN:1071	11/28/2019	0.799	7.99	8.32	-3.97	0.524	5.24	5.45	-3.85	
9	7/6/2019	Body	D750V3 SN:1071	11/28/2019	0.891	8.91	8.63	3.24	0.593	5.93	5.65	4.96	
9	7/10/2019	Head	D750V3 SN:1071	11/28/2019	0.785	7.85	8.32	-5.65	0.515	5.15	5.45	-5.50	95,96
9	7/10/2019	Body	D750V3 SN:1071	11/28/2019	0.898	8.98	8.63	4.06	0.597	5.97	5.65	5.66	
9	7/13/2019	Head	D1750V2 SN:1077	10/16/2019	3.560	35.60	38.69	-7.99	1.880	18.80	20.46	-8.11	97,98
9	7/14/2019	Head	D2600V2 SN:1006	10/16/2019	5.610	56.10	59.31	-5.41	2.510	25.10	26.43	-5.03	99,100
9	7/18/2019	Head	D2600V2 SN:1036	3/22/2020	6.070	60.70	55.90	8.59	2.710	27.10	24.80	9.27	101,102
9	7/21/2019	Head	D1900V2 SN:5d043	11/29/2019	4.130	41.30	41.80	-1.20	2.130	21.30	21.69	-1.80	103,104
9	7/22/2019	Body	D750V3 SN:1071	11/28/2019	0.910	9.10	8.63	5.45	0.607	6.07	5.65	7.43	

9. Conducted Output Power Measurements

Power measurements were performed in accordance to the device's two power modes, Mode A and Mode B for each antenna. Mode A power is used when the device is used against the user's head or away from the body. Mode B power is used when the device is used in a Body-worn configuration by the user.

The selection between antennas ANT1, ANT2, ANT3, ANT4, ANT5, and ANT6 in the application is based on RSSI based antenna selection. The full details of power selections are described in the operational description. Refer to Sec. 7 and Sec. 10 for details of the testing. Test reductions have applied accordingly following the SAR KDB Procedure for the supported wireless technologies of the DUT. This is noted in detail for each technology in their respective Sections.

The Tune-up limit already includes component tolerance. KDB 447498 sec.4.1.(d) 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.

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.

When different maximum output power applies to GSM voice or GPRS/EDGE time slots, GSM voice and GPRS/EDGE time slots should be tested separately to determine compliance by summing the corresponding reported SAR.

The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance

Per October 2013 TCB Workshop:

When the maximum frame-averaged powers levels are within 0.25 dB of each other, test the configuration with the most number of time slots.

Maximum Output Power (Tune-up Limit) for GSM

SAR is not required for EDGE (8PSK) mode because the maximum output power and tune-up limit is $\leq 1/4$ dB higher than GPRS/EDGE (GMSK) or the adjusted SAR of the highest reported SAR of GPRS/EDGE (GMSK) is ≤ 1.2 W/kg.

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GSM850	Voice/GPRS (1 slot)	33.25	33.25	31.75	31.75				
	GPRS 2 slots	32.25	32.25	30.75	30.75				
	EGPRS 1 slot	27.75	27.75	25.75	25.75				
	EGPRS 2 slots	26.75	26.75	24.75	24.75				
GSM1900	Voice/GPRS (1 slot)	31.75	30.25	29.25	28.25	32.00	29.50	26.75	28.00
	GPRS 2 slots	30.75	27.25	28.25	25.25	31.00	26.50	24.00	25.00
	EGPRS 1 slot	26.75	26.75	24.25	24.25	27.00	27.00	25.00	25.00
	EGPRS 2 slots	25.75	25.75	23.25	23.25	26.00	26.00	24.00	24.00

GSM850 Measured Results (ANT1)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	128	824.2	33.23	24.20	33.25	24.22	33.23	24.20	33.25	24.22
			190	836.6	33.21	24.18			33.21	24.18		
			251	848.8	33.17	24.14			33.17	24.14		
		2	128	824.2	32.25	26.23	32.25	26.23	32.25	26.23	32.25	26.23
			190	836.6	32.25	26.23			32.25	26.23		
			251	848.8	32.19	26.17			32.19	26.17		
EDGE (8PSK)	MCS5	1	128	824.2	27.50	18.47	27.75	18.72	27.50	18.47	27.75	18.72
			190	836.6	27.48	18.45			27.48	18.45		
			251	848.8	27.44	18.41			27.44	18.41		
		2	128	824.2	26.46	20.44	26.75	20.73	26.46	20.44	26.75	20.73
			190	836.6	26.41	20.39			26.41	20.39		
			251	848.8	26.40	20.38			26.40	20.38		

Notes:

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM850 Measured Results (ANT2)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	128	824.2	31.71	22.68	31.75	22.72	31.71	22.68	31.75	22.72
			190	836.6	31.71	22.68			31.71	22.68		
			251	848.8	31.73	22.70			31.73	22.70		
		2	128	824.2	30.36	24.34	30.75	24.73	30.36	24.34	30.75	24.73
			190	836.6	30.45	24.43			30.45	24.43		
			251	848.8	30.49	24.47			30.49	24.47		
EDGE (8PSK)	MCS5	1	128	824.2	25.55	16.52	25.75	16.72	25.55	16.52	25.75	16.72
			190	836.6	25.56	16.53			25.56	16.53		
			251	848.8	25.59	16.56			25.59	16.56		
		2	128	824.2	24.62	18.60	24.75	18.73	24.62	18.60	24.75	18.73
			190	836.6	24.60	18.58			24.60	18.58		
			251	848.8	24.66	18.64			24.66	18.64		

Notes:

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT1)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	31.58	22.55	31.75	22.72	30.22	21.19	30.25	21.22
			661	1880.0	31.45	22.42			30.14	21.11		
			810	1909.8	31.42	22.39			30.05	21.02		
		2	512	1850.2	30.27	24.25	30.75	24.73	27.24	21.22	27.25	21.23
			661	1880.0	30.30	24.28			27.14	21.12		
			810	1909.8	30.11	24.09			27.07	21.05		
EDGE (8PSK)	MCS5	1	512	1850.2	26.17	17.14	26.75	17.72	26.17	17.14	26.75	17.72
			661	1880.0	26.10	17.07			26.10	17.07		
			810	1909.8	26.03	17.00			26.03	17.00		
		2	512	1850.2	25.21	19.19	25.75	19.73	25.60	19.58	25.75	19.73
			661	1880.0	25.09	19.07			25.54	19.52		
			810	1909.8	25.00	18.98			25.48	19.46		

Notes:

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT2)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	29.08	20.05	29.25	20.22	28.08	19.05	28.25	19.22
			661	1880.0	29.05	20.02			27.99	18.96		
			810	1909.8	29.07	20.04			28.03	19.00		
		2	512	1850.2	28.11	22.09	28.25	22.23	25.20	19.18	25.25	19.23
			661	1880.0	28.07	22.05			25.15	19.13		
			810	1909.8	28.10	22.08			25.05	19.03		
EDGE (8PSK)	MCS5	1	512	1850.2	24.09	15.06	24.25	15.22	24.09	15.06	24.25	15.22
			661	1880.0	24.11	15.08			24.11	15.08		
			810	1909.8	24.09	15.06			24.09	15.06		
		2	512	1850.2	23.15	17.13	23.25	17.23	23.15	17.13	23.25	17.23
			661	1880.0	23.12	17.10			23.12	17.10		
			810	1909.8	23.10	17.08			23.10	17.08		

Notes:

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT3)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode A (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	31.79	22.76	32.00	22.97	29.08	20.05	29.50	20.47
			661	1880.0	31.74	22.71			28.98	19.95		
			810	1909.8	31.55	22.52			28.79	19.76		
		2	512	1850.2	30.61	24.59	31.00	24.98	26.15	20.13	26.50	20.48
			661	1880.0	30.51	24.49			26.18	20.16		
			810	1909.8	30.30	24.28			26.20	20.18		
EDGE (8PSK)	MCS5	1	512	1850.2	26.90	17.87	27.00	17.97	26.90	17.87	27.00	17.97
			661	1880.0	26.80	17.77			26.80	17.77		
			810	1909.8	26.70	17.67			26.70	17.67		
		2	512	1850.2	25.20	19.18	26.00	19.98	25.20	19.18	26.00	19.98
			661	1880.0	25.00	18.98			25.00	18.98		
			810	1909.8	25.00	18.98			25.00	18.98		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT4)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	26.52	17.49	26.75	17.72	27.50	18.47	28.00	18.97
			661	1880.0	26.54	17.51			27.46	18.43		
			810	1909.8	26.62	17.59			27.42	18.39		
		2	512	1850.2	23.80	17.78	24.00	17.98	24.50	18.48	25.00	18.98
			661	1880.0	24.00	17.98			24.50	18.48		
			810	1909.8	24.00	17.98			24.50	18.48		
EDGE (8PSK)	MCS5	1	512	1850.2	24.04	15.01	25.00	15.97	24.04	15.01	25.00	15.97
			661	1880.0	24.05	15.02			24.05	15.02		
			810	1909.8	24.12	15.09			24.12	15.09		
		2	512	1850.2	23.08	17.06	24.00	17.98	23.08	17.06	24.00	17.98
			661	1880.0	23.12	17.10			23.12	17.10		
			810	1909.8	23.20	17.18			23.20	17.18		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

9.2. W-CDMA

Per KDB 941225 D01 3G SAR Procedures for W-CDMA:

Maximum output power is verified on the high, middle and low channels and using the appropriate 12.2 kbps RMC with TPC (transmit power control) set to all "1's"

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. A summary of these settings is illustrated below:

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 procedures in table C.10.1.4 of 3GPP TS 34.121-1. A summary of these settings is illustrated below:

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

HSUPA Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to procedures in table C.11.1.3 of 3GPP TS 34.121-1. A summary of these settings is illustrated below:

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{EC}	β_{ES} (Note 4) (Note 5)	β_{ES} (SF)	β_{ES} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ES1}: 47/15$ $\beta_{ES2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH, HS-DPCCH, E-DPCCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$. In case of testing by UE using E-DPCCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 4: β_{ES} can not be set directly; it is set by Absolute Grant Value.

Note 5: For subtests 2, 3 and 4, UE may perform E-DPCCH power scaling at max power which could results in slightly smaller MPR values.

DC-HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests for DC-HSDPA were completed according to procedures in table C08.1.12 of 3GPP TS 34.121-1. A summary of subtest settings is illustrated below:

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	Processes	6
Information Bit Payload (N_{DP})	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.		

HSPA+ Setup Procedures used to establish the test signals

The following 1 Sub-test was completed according to procedures in table C.11.1.4 of 3GPP TS34.121. A summary of these settings is illustrated below:

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

Sub-test	β_{H} (Note 3)	β_{D}	β_{HS} (Note 1)	β_{SC}	β_{ED} (2xSF2) (Note 4)	β_{ED} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{\text{ED}1}$: 30/15 $\beta_{\text{ED}2}$: 30/15	$\beta_{\text{ED}3}$: 24/15 $\beta_{\text{ED}4}$: 24/15	3.5	2.5	14	105	105
Note 1: $\Delta\alpha_{\text{HS}}$, $\Delta\alpha_{\text{SC}}$ and $\Delta\alpha_{\text{ED}}$ = 30/15 with $\beta_{\text{ED}} = 30/15 * \beta_{\text{SC}}$.											
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1.0).											
Note 3: DPDCH is not configured, therefore the β_{H} is set to 1 and β_{D} = 0 by default.											
Note 4: β_{ED} can not be set directly; it is set by Absolute Grant Value.											
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

Maximum Output Power (Tune-up Limit) for W-CDMA

SAR measurement is not required for the HSDPA, HSUPA, DC-HSDPA and HSPA+. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is $\leq 1/4$ dB higher than the primary mode

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
W-CDMA Band 2	R99	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
	HSDPA	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
	HSUPA	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
	DC-HSDPA	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
	HSPA+	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
W-CDMA Band 4	R99	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
	HSDPA	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
	HSUPA	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
	DC-HSDPA	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
	HSPA+	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
W-CDMA Band 5	R99	25.70	25.70	24.50	24.50				
	HSDPA	25.70	25.70	24.50	24.50				
	HSUPA	25.70	25.70	24.50	24.50				
	DC-HSDPA	25.70	25.70	24.50	24.50				
	HSPA+	25.70	25.70	24.50	24.50				

W-CDMA Band II Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	25.15	N/A	25.70	21.18	N/A	21.25
		9400	1880.0	25.30			21.20		
		9538	1907.6	25.23			21.25		
HSDPA	Subtest 1	9262	1852.4	25.07	0	25.70	21.16	0	21.25
		9400	1880.0	25.17			21.23		
		9538	1907.6	25.25			21.25		
	Subtest 2	9262	1852.4	24.85	0	25.70	21.12	0	21.25
		9400	1880.0	24.90			21.20		
		9538	1907.6	24.90			21.19		
	Subtest 3	9262	1852.4	24.55	0.5	25.20	20.70	0.5	20.75
		9400	1880.0	24.65			20.75		
		9538	1907.6	24.60			20.73		
	Subtest 4	9262	1852.4	24.34	0.5	25.20	20.63	0.5	20.75
		9400	1880.0	24.37			20.73		
		9538	1907.6	24.31			20.71		
HSUPA	Subtest 1	9262	1852.4	25.30	0	25.70	21.12	0	21.25
		9400	1880.0	25.40			21.14		
		9538	1907.6	25.39			21.14		
	Subtest 2	9262	1852.4	22.86	2	23.70	19.21	2	19.25
		9400	1880.0	22.76			19.23		
		9538	1907.6	22.72			19.25		
	Subtest 3	9262	1852.4	23.74	1	24.70	19.85	1	20.25
		9400	1880.0	24.11			20.23		
		9538	1907.6	24.03			20.25		
	Subtest 4	9262	1852.4	22.99	2	23.70	18.85	2	19.25
		9400	1880.0	22.85			18.91		
		9538	1907.6	22.83			18.93		
	Subtest 5	9262	1852.4	24.80	0	25.70	21.14	0	21.25
		9400	1880.0	24.82			21.20		
		9538	1907.6	24.83			21.15		
DC-HSDPA	Subtest 1	9262	1852.4	25.09	0	25.70	21.15	0	21.25
		9400	1880.0	25.14			21.20		
		9538	1907.6	25.21			21.21		
	Subtest 2	9262	1852.4	24.80	0	25.70	21.13	0	21.25
		9400	1880.0	24.90			21.21		
		9538	1907.6	24.95			21.22		
	Subtest 3	9262	1852.4	24.53	0.5	25.20	20.63	0.5	20.75
		9400	1880.0	24.65			20.69		
		9538	1907.6	24.70			20.71		
	Subtest 4	9262	1852.4	24.34	0.5	25.20	20.62	0.5	20.75
		9400	1880.0	24.35			20.72		
		9538	1907.6	24.41			20.74		
HSPA+	Subtest 1	9262	1852.4	22.65	2.5	23.20	18.68	2.5	18.75
		9400	1880.0	22.69			18.70		
		9538	1907.6	22.73			18.75		

W-CDMA Band II Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	21.83	N/A	22.00	19.15	N/A	19.25
		9400	1880.0	21.91			19.20		
		9538	1907.6	21.99			19.11		
HSDPA	Subtest 1	9262	1852.4	21.26	0	22.00	18.74	0	19.25
		9400	1880.0	21.36			18.84		
		9538	1907.6	21.42			18.88		
	Subtest 2	9262	1852.4	21.25	0	22.00	18.73	0	19.25
		9400	1880.0	21.40			18.89		
		9538	1907.6	21.45			18.89		
	Subtest 3	9262	1852.4	21.26	0.5	21.50	18.70	0.5	18.75
		9400	1880.0	21.39			18.75		
		9538	1907.6	21.41			18.75		
	Subtest 4	9262	1852.4	21.23	0.5	21.50	18.69	0.5	18.75
		9400	1880.0	21.39			18.75		
		9538	1907.6	21.43			18.75		
HSUPA	Subtest 1	9262	1852.4	21.96	0	22.00	19.00	0	19.25
		9400	1880.0	21.63			19.10		
		9538	1907.6	21.92			19.15		
	Subtest 2	9262	1852.4	19.80	2	20.00	17.22	2	17.25
		9400	1880.0	19.97			17.24		
		9538	1907.6	19.99			17.25		
	Subtest 3	9262	1852.4	20.66	1	21.00	17.69	1	18.25
		9400	1880.0	20.88			17.83		
		9538	1907.6	21.00			17.90		
	Subtest 4	9262	1852.4	19.90	2	20.00	16.90	2	17.25
		9400	1880.0	19.99			17.11		
		9538	1907.6	20.00			17.12		
	Subtest 5	9262	1852.4	21.83	0	22.00	18.93	0	19.25
		9400	1880.0	21.99			19.05		
		9538	1907.6	21.98			19.09		
DC-HSDPA	Subtest 1	9262	1852.4	21.25	0	22.00	18.98	0	19.25
		9400	1880.0	21.35			19.10		
		9538	1907.6	21.39			19.17		
	Subtest 2	9262	1852.4	21.25	0	22.00	18.94	0	19.25
		9400	1880.0	21.27			19.07		
		9538	1907.6	21.33			19.14		
	Subtest 3	9262	1852.4	21.26	0.5	21.50	18.71	0.5	18.75
		9400	1880.0	21.40			18.75		
		9538	1907.6	21.50			18.75		
	Subtest 4	9262	1852.4	21.20	0.5	21.50	18.69	0.5	18.75
		9400	1880.0	21.32			18.75		
		9538	1907.6	21.38			18.75		
HSPA+	Subtest 1	9262	1852.4	19.33	2.5	19.50	16.52	2.5	16.75
		9400	1880.0	19.41			16.59		
		9538	1907.6	19.49			16.61		

W-CDMA Band II Measured Results (ANT3)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pw r	MPR	Tune-up Limit	Measured Pw r	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.61	N/A	25.00	20.38	N/A	20.50
		9400	1880.0	24.70			20.40		
		9538	1907.6	24.53			20.40		
HSDPA	Subtest 1	9262	1852.4	24.59	0	25.00	20.38	0	20.50
		9400	1880.0	24.48			20.23		
		9538	1907.6	24.54			20.21		
	Subtest 2	9262	1852.4	24.31	0	25.00	20.32	0	20.50
		9400	1880.0	24.21			20.28		
		9538	1907.6	24.22			20.18		
	Subtest 3	9262	1852.4	24.07	0.5	24.50	19.98	0.5	20.00
		9400	1880.0	23.95			19.94		
		9538	1907.6	23.93			19.88		
	Subtest 4	9262	1852.4	23.77	0.5	24.50	19.95	0.5	20.00
		9400	1880.0	23.71			19.88		
		9538	1907.6	23.66			19.82		
HSUPA	Subtest 1	9262	1852.4	24.53	0	25.00	20.35	0	20.50
		9400	1880.0	24.12			20.22		
		9538	1907.6	24.14			20.21		
	Subtest 2	9262	1852.4	22.27	2	23.00	18.35	2	18.50
		9400	1880.0	22.17			18.21		
		9538	1907.6	22.12			18.15		
	Subtest 3	9262	1852.4	23.30	1	24.00	19.38	1	19.50
		9400	1880.0	23.16			19.35		
		9538	1907.6	23.15			19.29		
	Subtest 4	9262	1852.4	22.54	2	23.00	18.43	2	18.50
		9400	1880.0	22.43			18.38		
		9538	1907.6	22.39			18.39		
	Subtest 5	9262	1852.4	24.32	0	25.00	20.31	0	20.50
		9400	1880.0	24.11			20.17		
		9538	1907.6	24.14			20.11		
DC-HSDPA	Subtest 1	9262	1852.4	24.68	0	25.00	20.45	0	20.50
		9400	1880.0	24.58			20.40		
		9538	1907.6	24.64			20.36		
	Subtest 2	9262	1852.4	24.42	0	25.00	20.46	0	20.50
		9400	1880.0	24.29			20.28		
		9538	1907.6	24.29			20.31		
	Subtest 3	9262	1852.4	24.18	0.5	24.50	19.95	0.5	20.00
		9400	1880.0	24.04			19.84		
		9538	1907.6	24.01			19.85		
	Subtest 4	9262	1852.4	23.95	0.5	24.50	19.94	0.5	20.00
		9400	1880.0	23.77			19.90		
		9538	1907.6	23.73			19.86		
HSPA+	Subtest 1	9262	1852.4	22.11	2.5	22.50	17.88	2.5	18.00
		9400	1880.0	21.94			17.75		
		9538	1907.6	21.93			17.68		

W-CDMA Band II Measured Results (ANT4)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	17.45	N/A	17.75	18.70	N/A	19.00
		9400	1880.0	17.57			18.83		
		9538	1907.6	17.60			18.85		
HSDPA	Subtest 1	9262	1852.4	17.50	0	17.75	18.70	0	19.00
		9400	1880.0	17.64			18.88		
		9538	1907.6	17.67			18.90		
	Subtest 2	9262	1852.4	17.44	0	17.75	18.69	0	19.00
		9400	1880.0	17.65			18.86		
		9538	1907.6	17.66			18.87		
	Subtest 3	9262	1852.4	16.96	0.5	17.25	18.20	0.5	18.50
		9400	1880.0	17.07			18.38		
		9538	1907.6	17.12			18.37		
	Subtest 4	9262	1852.4	16.95	0.5	17.25	18.21	0.5	18.50
		9400	1880.0	17.11			18.39		
		9538	1907.6	17.11			18.36		
HSUPA	Subtest 1	9262	1852.4	17.23	0	17.75	18.64	0	19.00
		9400	1880.0	17.41			18.81		
		9538	1907.6	17.42			18.84		
	Subtest 2	9262	1852.4	15.25	2	15.75	16.61	2	17.00
		9400	1880.0	15.46			16.78		
		9538	1907.6	15.47			16.79		
	Subtest 3	9262	1852.4	16.24	1	16.75	17.61	1	18.00
		9400	1880.0	16.30			17.81		
		9538	1907.6	16.29			17.78		
	Subtest 4	9262	1852.4	15.45	2	15.75	16.70	2	17.00
		9400	1880.0	15.64			16.85		
		9538	1907.6	15.62			16.84		
	Subtest 5	9262	1852.4	17.27	0	17.75	18.67	0	19.00
		9400	1880.0	17.34			18.82		
		9538	1907.6	17.35			18.82		
DC-HSDPA	Subtest 1	9262	1852.4	17.27	0	17.75	18.69	0	19.00
		9400	1880.0	17.40			18.88		
		9538	1907.6	17.44			18.90		
	Subtest 2	9262	1852.4	17.46	0	17.75	18.66	0	19.00
		9400	1880.0	17.67			18.88		
		9538	1907.6	17.67			18.88		
	Subtest 3	9262	1852.4	16.71	0.5	17.25	18.15	0.5	18.50
		9400	1880.0	16.89			18.35		
		9538	1907.6	16.89			18.35		
	Subtest 4	9262	1852.4	16.71	0.5	17.25	18.17	0.5	18.50
		9400	1880.0	16.90			18.32		
		9538	1907.6	16.91			18.36		
HSPA+	Subtest 1	9262	1852.4	14.95	2.5	15.25	16.43	2.5	16.50
		9400	1880.0	15.07			16.48		
		9538	1907.6	15.10			16.40		

W-CDMA Band IV Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	25.50	N/A	25.70	17.50	N/A	17.50
		1413	1732.6	25.51			17.47		
		1513	1752.6	25.58			17.49		
HSDPA	Subtest 1	1312	1712.4	25.47	0	25.70	17.44	0	17.50
		1413	1732.6	25.49			17.47		
		1513	1752.6	25.54			17.49		
	Subtest 2	1312	1712.4	25.24	0	25.70	17.43	0	17.50
		1413	1732.6	25.24			17.46		
		1513	1752.6	25.32			17.50		
	Subtest 3	1312	1712.4	25.03	0.5	25.20	16.98	0.5	17.00
		1413	1732.6	25.06			16.89		
		1513	1752.6	25.06			16.99		
	Subtest 4	1312	1712.4	24.75	0.5	25.20	16.96	0.5	17.00
		1413	1732.6	24.77			16.97		
		1513	1752.6	24.80			16.96		
HSUPA	Subtest 1	1312	1712.4	25.48	0	25.70	17.44	0	17.50
		1413	1732.6	25.55			17.43		
		1513	1752.6	25.62			17.48		
	Subtest 2	1312	1712.4	22.85	2	23.70	14.97	2	15.50
		1413	1732.6	22.71			14.95		
		1513	1752.6	22.72			14.99		
	Subtest 3	1312	1712.4	24.18	1	24.70	16.24	1	16.50
		1413	1732.6	24.19			16.23		
		1513	1752.6	24.20			16.23		
	Subtest 4	1312	1712.4	22.96	2	23.70	15.32	2	15.50
		1413	1732.6	22.97			15.26		
		1513	1752.6	23.02			15.27		
	Subtest 5	1312	1712.4	25.24	0	25.70	17.04	0	17.50
		1413	1732.6	25.21			17.06		
		1513	1752.6	25.33			17.13		
DC-HSDPA	Subtest 1	1312	1712.4	25.51	0	25.70	17.32	0	17.50
		1413	1732.6	25.63			17.34		
		1513	1752.6	25.57			17.34		
	Subtest 2	1312	1712.4	25.44	0	25.70	17.37	0	17.50
		1413	1732.6	25.62			17.34		
		1513	1752.6	25.56			17.36		
	Subtest 3	1312	1712.4	25.20	0.5	25.20	16.81	0.5	17.00
		1413	1732.6	25.19			16.75		
		1513	1752.6	25.12			16.76		
	Subtest 4	1312	1712.4	25.20	0.5	25.20	16.79	0.5	17.00
		1413	1732.6	25.17			16.73		
		1513	1752.6	25.10			16.73		
HSPA+	Subtest 1	1312	1712.4	23.00	2.5	23.20	15.00	2.5	15.00
		1413	1732.6	23.01			14.97		
		1513	1752.6	23.08			14.99		

W-CDMA Band IV Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	21.79	N/A	22.00	19.04	N/A	19.50
		1413	1732.6	21.78			19.02		
		1513	1752.6	21.59			19.05		
HSDPA	Subtest 1	1312	1712.4	21.69	0	22.00	18.72	0	19.50
		1413	1732.6	21.84			18.82		
		1513	1752.6	21.55			18.62		
	Subtest 2	1312	1712.4	21.69	0	22.00	18.73	0	19.50
		1413	1732.6	21.84			18.85		
		1513	1752.6	21.62			18.62		
	Subtest 3	1312	1712.4	21.36	0.5	21.50	18.38	0.5	19.00
		1413	1732.6	21.48			18.48		
		1513	1752.6	21.24			18.26		
	Subtest 4	1312	1712.4	21.43	0.5	21.50	18.32	0.5	19.00
		1413	1732.6	21.50			18.49		
		1513	1752.6	21.27			18.26		
HSUPA	Subtest 1	1312	1712.4	21.71	0	22.00	18.68	0	19.50
		1413	1732.6	21.82			18.85		
		1513	1752.6	21.54			18.64		
	Subtest 2	1312	1712.4	19.79	2	20.00	16.83	2	17.50
		1413	1732.6	19.98			16.99		
		1513	1752.6	19.65			16.70		
	Subtest 3	1312	1712.4	20.93	1	21.00	17.77	1	18.50
		1413	1732.6	20.98			17.98		
		1513	1752.6	20.78			17.72		
	Subtest 4	1312	1712.4	19.77	2	20.00	16.76	2	17.50
		1413	1732.6	19.97			16.98		
		1513	1752.6	19.61			16.61		
	Subtest 5	1312	1712.4	21.74	0	22.00	18.71	0	19.50
		1413	1732.6	21.83			18.84		
		1513	1752.6	21.55			18.58		
DC-HSDPA	Subtest 1	1312	1712.4	21.71	0	22.00	18.74	0	19.50
		1413	1732.6	21.80			18.85		
		1513	1752.6	21.61			18.62		
	Subtest 2	1312	1712.4	21.72	0	22.00	18.73	0	19.50
		1413	1732.6	21.81			18.83		
		1513	1752.6	21.58			18.58		
	Subtest 3	1312	1712.4	21.37	0.5	21.50	18.38	0.5	19.00
		1413	1732.6	21.50			18.48		
		1513	1752.6	21.22			18.23		
	Subtest 4	1312	1712.4	21.40	0.5	21.50	18.40	0.5	19.00
		1413	1732.6	21.47			18.47		
		1513	1752.6	21.21			18.24		
HSPA+	Subtest 1	1312	1712.4	19.29	2.5	19.50	16.24	2.5	17.00
		1413	1732.6	19.28			16.32		
		1513	1752.6	19.09			16.07		

W-CDMA Band IV Measured Results (ANT3)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pw r	MPR	Tune-up Limit	Measured Pw r	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.64	N/A	25.00	20.50	N/A	21.00
		1413	1732.6	24.78			20.55		
		1513	1752.6	24.75			20.50		
HSDPA	Subtest 1	1312	1712.4	24.40	0	25.00	20.17	0	21.00
		1413	1732.6	24.46			20.25		
		1513	1752.6	24.61			20.35		
	Subtest 2	1312	1712.4	24.10	0	25.00	20.19	0	21.00
		1413	1732.6	24.21			20.27		
		1513	1752.6	24.35			20.38		
	Subtest 3	1312	1712.4	23.87	0.5	24.50	20.22	0.5	20.50
		1413	1732.6	23.97			20.24		
		1513	1752.6	24.12			20.25		
	Subtest 4	1312	1712.4	23.64	0.5	24.50	20.16	0.5	20.50
		1413	1732.6	23.72			20.21		
		1513	1752.6	23.86			20.25		
HSUPA	Subtest 1	1312	1712.4	24.26	0	25.00	20.13	0	21.00
		1413	1732.6	24.14			20.20		
		1513	1752.6	24.19			20.37		
	Subtest 2	1312	1712.4	22.27	2	23.00	18.14	2	19.00
		1413	1732.6	22.25			18.24		
		1513	1752.6	22.35			18.34		
	Subtest 3	1312	1712.4	23.17	1	24.00	19.25	1	20.00
		1413	1732.6	23.33			19.33		
		1513	1752.6	23.46			19.39		
	Subtest 4	1312	1712.4	22.33	2	23.00	18.35	2	19.00
		1413	1732.6	22.48			18.50		
		1513	1752.6	22.61			18.58		
	Subtest 5	1312	1712.4	24.16	0	25.00	20.13	0	21.00
		1413	1732.6	24.27			20.22		
		1513	1752.6	24.42			20.34		
DC-HSDPA	Subtest 1	1312	1712.4	24.39	0	25.00	20.17	0	21.00
		1413	1732.6	24.53			20.30		
		1513	1752.6	24.57			20.36		
	Subtest 2	1312	1712.4	24.44	0	25.00	20.18	0	21.00
		1413	1732.6	24.53			20.22		
		1513	1752.6	24.60			20.39		
	Subtest 3	1312	1712.4	24.15	0.5	24.50	20.16	0.5	20.50
		1413	1732.6	24.25			20.23		
		1513	1752.6	24.33			20.25		
	Subtest 4	1312	1712.4	24.12	0.5	24.50	20.17	0.5	20.50
		1413	1732.6	24.16			20.22		
		1513	1752.6	24.30			20.25		
HSPA+	Subtest 1	1312	1712.4	22.14	2.5	22.50	17.66	2.5	18.50
		1413	1732.6	22.28			17.80		
		1513	1752.6	22.41			17.88		

W-CDMA Band IV Measured Results (ANT4)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	20.85	N/A	21.25	21.35	N/A	21.50
		1413	1732.6	20.85			21.30		
		1513	1752.6	20.85			21.33		
HSDPA	Subtest 1	1312	1712.4	20.73	0	21.25	21.13	0	21.50
		1413	1732.6	20.68			21.08		
		1513	1752.6	20.68			21.09		
	Subtest 2	1312	1712.4	20.73	0	21.25	21.12	0	21.50
		1413	1732.6	20.68			21.08		
		1513	1752.6	20.67			21.06		
	Subtest 3	1312	1712.4	20.32	0.5	20.75	20.91	0.5	21.00
		1413	1732.6	20.28			20.87		
		1513	1752.6	20.27			20.87		
	Subtest 4	1312	1712.4	20.31	0.5	20.75	20.90	0.5	21.00
		1413	1732.6	20.27			20.87		
		1513	1752.6	20.27			20.86		
HSUPA	Subtest 1	1312	1712.4	20.70	0	21.25	21.30	0	21.50
		1413	1732.6	20.80			21.20		
		1513	1752.6	20.85			21.25		
	Subtest 2	1312	1712.4	18.72	2	19.25	19.12	2	19.50
		1413	1732.6	18.72			19.12		
		1513	1752.6	18.81			19.21		
	Subtest 3	1312	1712.4	19.70	1	20.25	20.30	1	20.50
		1413	1732.6	19.80			20.20		
		1513	1752.6	19.85			20.25		
	Subtest 4	1312	1712.4	18.72	2	19.25	19.12	2	19.50
		1413	1732.6	18.72			19.12		
		1513	1752.6	18.81			19.21		
	Subtest 5	1312	1712.4	20.70	0	21.25	21.30	0	21.50
		1413	1732.6	20.80			21.20		
		1513	1752.6	20.85			21.25		
DC-HSDPA	Subtest 1	1312	1712.4	20.73	0	21.25	21.13	0	21.50
		1413	1732.6	20.68			21.08		
		1513	1752.6	20.68			21.09		
	Subtest 2	1312	1712.4	20.73	0	21.25	21.12	0	21.50
		1413	1732.6	20.68			21.08		
		1513	1752.6	20.67			21.06		
	Subtest 3	1312	1712.4	20.32	0.5	20.75	20.91	0.5	21.00
		1413	1732.6	20.28			20.87		
		1513	1752.6	20.27			20.87		
	Subtest 4	1312	1712.4	20.31	0.5	20.75	20.90	0.5	21.00
		1413	1732.6	20.27			20.87		
		1513	1752.6	20.27			20.86		
HSPA+	Subtest 1	1312	1712.4	18.25	2.5	18.75	18.85	2.5	19.00
		1413	1732.6	18.20			18.80		
		1513	1752.6	18.23			18.83		

W-CDMA Band V Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	25.50	N/A	25.70	25.50	N/A	25.70
		4183	836.6	25.46			25.46		
		4233	846.6	25.55			25.55		
HSDPA	Subtest 1	4132	826.4	25.44	0	25.70	25.44	0	25.70
		4183	836.6	25.40			25.40		
		4233	846.6	25.50			25.50		
	Subtest 2	4132	826.4	25.10	0	25.70	25.10	0	25.70
		4183	836.6	24.99			24.99		
		4233	846.6	25.09			25.09		
	Subtest 3	4132	826.4	24.82	0.5	25.20	24.82	0.5	25.20
		4183	836.6	24.69			24.69		
		4233	846.6	24.77			24.77		
	Subtest 4	4132	826.4	24.50	0.5	25.20	24.50	0.5	25.20
		4183	836.6	24.33			24.33		
		4233	846.6	24.46			24.46		
HSUPA	Subtest 1	4132	826.4	24.88	0	25.70	24.88	0	25.70
		4183	836.6	25.21			25.21		
		4233	846.6	25.31			25.31		
	Subtest 2	4132	826.4	23.11	2	23.70	23.11	2	23.70
		4183	836.6	22.78			22.78		
		4233	846.6	22.73			22.73		
	Subtest 3	4132	826.4	24.08	1	24.70	24.08	1	24.70
		4183	836.6	24.02			24.02		
		4233	846.6	24.06			24.06		
	Subtest 4	4132	826.4	23.08	2	23.70	23.08	2	23.70
		4183	836.6	22.75			22.75		
		4233	846.6	22.79			22.79		
	Subtest 5	4132	826.4	25.22	0	25.70	25.22	0	25.70
		4183	836.6	25.05			25.05		
		4233	846.6	25.17			25.17		
DC-HSDPA	Subtest 1	4132	826.4	25.51	0	25.70	25.51	0	25.70
		4183	836.6	25.40			25.40		
		4233	846.6	25.54			25.54		
	Subtest 2	4132	826.4	25.19	0	25.70	25.19	0	25.70
		4183	836.6	25.09			25.09		
		4233	846.6	25.17			25.17		
	Subtest 3	4132	826.4	24.95	0.5	25.20	24.95	0.5	25.20
		4183	836.6	24.88			24.88		
		4233	846.6	24.90			24.90		
	Subtest 4	4132	826.4	24.65	0.5	25.20	24.65	0.5	25.20
		4183	836.6	24.56			24.56		
		4233	846.6	24.60			24.60		
HSPA+	Subtest 1	4132	826.4	23.00	2.5	23.20	23.00	2.5	23.20
		4183	836.6	22.96			22.96		
		4233	846.6	23.05			23.05		

W-CDMA Band V Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.15	N/A	24.50	24.15	N/A	24.50
		4183	836.6	24.32			24.32		
		4233	846.6	24.26			24.26		
HSDPA	Subtest 1	4132	826.4	24.09	0	24.50	24.09	0	24.50
		4183	836.6	24.36			24.36		
		4233	846.6	24.27			24.27		
	Subtest 2	4132	826.4	23.78	0	24.50	23.78	0	24.50
		4183	836.6	24.00			24.00		
		4233	846.6	23.93			23.93		
	Subtest 3	4132	826.4	23.53	0.5	24.00	23.53	0.5	24.00
		4183	836.6	23.74			23.74		
		4233	846.6	23.62			23.62		
	Subtest 4	4132	826.4	23.31	0.5	24.00	23.31	0.5	24.00
		4183	836.6	23.45			23.45		
		4233	846.6	23.35			23.35		
HSUPA	Subtest 1	4132	826.4	24.09	0	24.50	24.09	0	24.50
		4183	836.6	23.62			23.62		
		4233	846.6	23.52			23.52		
	Subtest 2	4132	826.4	22.04	2	22.50	22.04	2	22.50
		4183	836.6	22.25			22.25		
		4233	846.6	22.09			22.09		
	Subtest 3	4132	826.4	23.06	1	23.50	23.06	1	23.50
		4183	836.6	23.19			23.19		
		4233	846.6	23.09			23.09		
	Subtest 4	4132	826.4	22.25	2	22.50	22.25	2	22.50
		4183	836.6	22.48			22.48		
		4233	846.6	22.31			22.31		
	Subtest 5	4132	826.4	24.10	0	24.50	24.10	0	24.50
		4183	836.6	24.29			24.29		
		4233	846.6	24.22			24.22		
DC-HSDPA	Subtest 1	4132	826.4	23.54	0	24.50	23.54	0	24.50
		4183	836.6	23.69			23.69		
		4233	846.6	23.60			23.60		
	Subtest 2	4132	826.4	23.55	0	24.50	23.55	0	24.50
		4183	836.6	23.76			23.76		
		4233	846.6	23.58			23.58		
	Subtest 3	4132	826.4	23.57	0.5	24.00	23.57	0.5	24.00
		4183	836.6	23.76			23.76		
		4233	846.6	23.57			23.57		
	Subtest 4	4132	826.4	23.53	0.5	24.00	23.53	0.5	24.00
		4183	836.6	23.73			23.73		
		4233	846.6	23.61			23.61		
HSPA+	Subtest 1	4132	826.4	21.65	2.5	22.00	21.65	2.5	22.00
		4183	836.6	21.82			21.82		
		4233	846.6	21.76			21.76		

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 Tx Pout)
- Reverse Power Control Mode: 00-200 to 400 bps
- Smart blanking was disabled.

1xEV-DO Rev. B Setup Procedures used to establish the test signals

Call box setup procedure

- CMW 500 Signal Generator > 1xEV-DO Taskbar Enable
- CMW 500 1xEV-DO Signaling Configuration Window >
- 1xEV-DO Signaling On Window:
Under Access Network Control:
Band Class: BC0: US Cellular
RF Channel: 31
1xEV-DO Power: -70 dBm
Release B
- 1xEV-DO Signaling Configuration Window

Under RF Frequency Band / Channel: Enter Ch. Frequency
➤ Under Carrier Configuration: RF Frequency
For Two Carriers: Low Channel (1013)

	<u>RF Channel</u>	<u>RF Channel Offset</u>
Carrier [0]	31	0
Carrier [1]	1013	982

	<u>Carrier Sector</u>	<u>Active on AN</u>	<u>Assigned to AT</u>
Pilot [0]	C0/S0	✓	✓
	CA/S1	✓	✓

For Three Carriers: Low Channel (1013)

	<u>RF Channel</u>	<u>RF Channel Offset</u>
Carrier [0]	72	0
Carrier [1]	31	-41
Carrier [2]	1013	941

	<u>Carrier Sector</u>	<u>Active on AN</u>	<u>Assigned to AT</u>
Pilot [0]	C0/S0	✓	✓
Pilot [1]	C1/S1	✓	✓
Pilot [2]	C2/S2	✓	✓

- Rvs Power Ctrl > All Up bits (to get the maximum power)

Maximum Output Power (Tune-up Limit) for CDMA

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode

Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 D01 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode.

When VOIP is supported by Ev-Do devices for next to the ear use, head exposure SAR is required.

SAR measurement is not required for the 1xEVDO Rev. A, Rel. 0 and 1x-Advanced. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CDMA BC0	1xRTT	25.70	25.70	24.50	24.50				
	1xAdvanced	25.70	25.70	24.50	24.50				
	1xEVDO Rel. 0	25.70	25.70	24.50	24.50				
	1xEVDO Rev. A	25.70	25.70	24.50	24.50				
CDMA BC1	1xRTT	25.70	21.25	22.00	19.25				
	1xAdvanced	25.70	21.25	22.00	19.25				
	1xEVDO Rel. 0	25.70	21.25	22.00	19.25				
	1xEVDO Rev. A	25.70	21.25	22.00	19.25				
CDMA BC10	1xRTT	25.70	25.70	24.50	24.50				
	1xAdvanced	25.70	25.70	24.50	24.50				
	1xEVDO Rel. 0	25.70	25.70	24.50	24.50				
	1xEVDO Rev. A	25.70	25.70	24.50	24.50				

CDMA BC1 is not supported by ANT3 and ANT 4.

CDMA BC0 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	1013	824.70	25.67	25.70	25.67	25.70
		384	836.52	25.68		25.68	
		777	848.31	25.68		25.68	
	RC3, SO55 (Loopback)	1013	824.70	25.67		25.67	
		384	836.52	25.68		25.68	
		777	848.31	25.68		25.68	
	RC3, SO32 (+F-SCH)	1013	824.70	25.57		25.57	
		384	836.52	25.68		25.68	
		777	848.31	25.68		25.68	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	25.50	25.70	25.50	25.70
		384	836.52	25.68		25.68	
		777	848.31	25.68		25.68	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.67	25.70	25.67	25.70
		384	836.52	25.70		25.70	
		777	848.31	25.70		25.70	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.62	25.70	25.62	25.70
		384	836.52	25.70		25.70	
		777	848.31	25.60		25.60	

CDMA BC0 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	1013	824.70	24.40	24.50	24.40	24.50
		384	836.52	24.49		24.49	
		777	848.31	24.50		24.50	
	RC3, SO55 (Loopback)	1013	824.70	24.40		24.40	
		384	836.52	24.49		24.49	
		777	848.31	24.50		24.50	
	RC3, SO32 (+F-SCH)	1013	824.70	24.39		24.39	
		384	836.52	24.44		24.44	
		777	848.31	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	24.46	24.50	24.46	24.50
		384	836.52	24.47		24.47	
		777	848.31	24.47		24.47	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	24.46	24.50	24.46	24.50
		384	836.52	24.47		24.47	
		777	848.31	24.49		24.49	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	24.50	24.50	24.50	24.50
		384	836.52	24.49		24.49	
		777	848.31	24.39		24.39	

CDMA BC1 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	25.15	25.70	21.14	21.25
		600	1880.00	25.30		21.22	
		1175	1908.75	25.29		21.25	
	RC3, SO55 (Loopback)	25	1851.25	25.15		21.09	
		600	1880.00	25.30		21.08	
		1175	1908.75	25.29		21.19	
	RC3, SO32 (+F-SCH)	25	1851.25	25.08		21.13	
		600	1880.00	25.30		21.09	
		1175	1908.75	25.22		21.21	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	25.15	25.70	21.14	21.25
		600	1880	25.17		21.22	
		1175	1908.75	25.29		21.25	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	25.15	25.70	20.96	21.25
		600	1880.00	25.30		20.95	
		1175	1908.75	25.29		21.07	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	25.15	25.70	20.77	21.25
		600	1880	25.30		20.80	
		1175	1908.75	25.29		20.96	

CDMA BC1 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	21.95	22.00	19.20	19.25
		600	1880.00	22.00		19.25	
		1175	1908.75	22.00		19.07	
	RC3, SO55 (Loopback)	25	1851.25	21.95		19.12	
		600	1880.00	22.00		19.19	
		1175	1908.75	22.00		19.01	
	RC3, SO32 (+F-SCH)	25	1851.25	21.87		19.13	
		600	1880.00	21.88		19.16	
		1175	1908.75	21.72		19.01	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	21.89	22.00	19.20	19.25
		600	1880	21.97		19.25	
		1175	1908.75	21.85		19.07	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	22.00	22.00	18.90	19.25
		600	1880.00	21.95		18.94	
		1175	1908.75	21.95		18.84	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	21.66	22.00	18.74	19.25
		600	1880	21.71		18.80	
		1175	1908.75	21.58		18.70	

CDMA BC10 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	560	820.00	25.68	25.70	25.68	25.70
	RC3, SO55 (Loopback)	560	820.00	25.68		25.68	
	RC3, SO32 (+F-SCH)	560	820.00	25.68		25.68	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	560	820.00	25.68	25.70	25.68	25.70
1xEV-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	25.70	25.70	25.70	25.70
1xEV-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	25.70	25.70	25.70	25.70

CDMA BC10 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	560	820.00	24.40	24.50	24.40	24.50
	RC3, SO55 (Loopback)	560	820.00	24.40		24.40	
	RC3, SO32 (+F-SCH)	560	820.00	24.44		24.44	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	560	820.00	24.47	24.50	24.47	24.50
1xEV-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	24.47	24.50	24.47	24.50
1xEV-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	24.49	24.50	24.49	24.50

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 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
256 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

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 (subclause)	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	N/A

Maximum Output Power (Tune-up Limit) for LTE

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

- a) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
 - LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25 (1850-1915 MHz)
 - LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz)
 - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

Maximum 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 QPSK configuration has the highest maximum average output power per 3GPP standard.

SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is $\leq \frac{1}{2}$ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.3. for LTE detail test channels.

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 2	QPSK	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
LTE Band 4	QPSK	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
LTE Band 5	QPSK	25.70	25.70	24.50	24.50				
LTE Band 7	QPSK	25.70	20.25	19.25	20.50	25.00	20.00	18.00	18.50
LTE Band 12	QPSK	25.70	25.70	24.50	24.50				
LTE Band 13	QPSK	25.70	25.70	24.50	24.50				
LTE Band 17	QPSK	25.70	25.70	24.50	24.50				
LTE Band 25	QPSK	25.70	21.25	22.00	19.25	25.00	20.50	17.75	19.00
LTE Band 26	QPSK	25.70	25.70	24.50	24.50				
LTE Band 30	QPSK	25.70	20.25	21.25	20.00	24.50	22.50	17.75	19.00
LTE Band 41 (PC3)	QPSK	25.70	23.25	21.50	23.25	25.50	22.25	18.75	19.75
LTE Band 41 (PC 2)	QPSK	28.70	23.25	21.50	23.25	28.00	22.25	18.75	19.75
LTE Band 66	QPSK	25.70	17.50	22.00	19.50	25.00	21.00	21.25	21.50
RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT6		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 48	QPSK	25.70	25.70	22.50	22.50	25.50	25.50	22.50	22.50

LTE Band 5 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit
					836.5 MHz					836.5 MHz			
10 MHz	QPSK	1	0		25.10		0	25.70		25.10		0	25.70
		1	25		25.60		0	25.70		25.60		0	25.70
		1	49		25.21		0	25.70		25.21		0	25.70
		25	0		23.98		1	24.70		23.98		1	24.70
		25	12		24.20		1	24.70		24.20		1	24.70
		25	25		24.01		1	24.70		24.01		1	24.70
		50	0		24.03		1	24.70		24.03		1	24.70
	16QAM	1	0		24.45		1	24.70		24.45		1	24.70
		1	25		24.29		1	24.70		24.29		1	24.70
		1	49		24.52		1	24.70		24.52		1	24.70
		25	0		23.00		2	23.70		23.00		2	23.70
		25	12		23.02		2	23.70		23.02		2	23.70
		25	25		23.10		2	23.70		23.10		2	23.70
	64QAM	50	0		23.10		2	23.70		23.10		2	23.70
		1	0		23.45		2	23.70		23.45		2	23.70
		1	25		23.29		2	23.70		23.29		2	23.70
		1	49		23.35		2	23.70		23.35		2	23.70
		25	0		22.22		3	22.70		22.22		3	22.70
		25	12		22.15		3	22.70		22.15		3	22.70
		25	25		22.13		3	22.70		22.13		3	22.70
		50	0		22.15		3	22.70		22.15		3	22.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20425	20525	20625	MPR	Tune-up Limit	20425	20525	20625	MPR	Tune-up Limit
					826.5 MHz	836.5 MHz				826.5 MHz	836.5 MHz		
5 MHz	QPSK	1	0	25.08	25.06	25.31	0	25.70	25.08	25.06	25.31	0	25.70
		1	12	25.04	25.05	25.27	0	25.70	25.04	25.05	25.27	0	25.70
		1	24	25.12	25.09	25.24	0	25.70	25.12	25.09	25.24	0	25.70
		12	0	23.98	23.94	24.27	1	24.70	23.98	23.94	24.27	1	24.70
		12	7	23.97	23.91	24.24	1	24.70	23.97	23.91	24.24	1	24.70
		12	13	23.97	23.95	24.20	1	24.70	23.97	23.95	24.20	1	24.70
	16QAM	25	0	23.98	23.98	24.23	1	24.70	23.98	23.98	24.23	1	24.70
		1	0	24.53	24.38	24.70	1	24.70	24.53	24.38	24.70	1	24.70
		1	12	24.44	24.37	24.70	1	24.70	24.44	24.37	24.70	1	24.70
		1	24	24.47	24.40	24.68	1	24.70	24.47	24.40	24.68	1	24.70
		12	0	22.93	22.92	23.24	2	23.70	22.93	22.92	23.24	2	23.70
		12	7	22.94	22.88	23.18	2	23.70	22.94	22.88	23.18	2	23.70
	64QAM	12	13	22.95	22.93	23.13	2	23.70	22.95	22.93	23.13	2	23.70
		25	0	22.95	22.92	23.14	2	23.70	22.95	22.92	23.14	2	23.70
		1	0	23.42	23.45	23.51	2	23.70	23.42	23.45	23.51	2	23.70
		1	12	23.32	23.37	23.53	2	23.70	23.32	23.37	23.53	2	23.70
		1	24	23.28	23.41	23.56	2	23.70	23.28	23.41	23.56	2	23.70
		12	0	22.04	21.98	21.95	3	22.70	22.04	21.98	21.95	3	22.70
		12	7	22.01	22.01	22.00	3	22.70	22.01	22.01	22.00	3	22.70
		12	13	22.02	21.97	22.00	3	22.70	22.02	21.97	22.00	3	22.70
		25	0	21.99	21.98	22.03	3	22.70	21.99	21.98	22.03	3	22.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20415	20525	20635	MPR	Tune-up Limit	20415	20525	20635	MPR	Tune-up Limit
					825.5 MHz	836.5 MHz				825.5 MHz	836.5 MHz		
3 MHz	QPSK	1	0	25.08	24.92	25.25	0	25.70	25.08	24.92	25.25	0	25.70
		1	8	25.10	25.03	25.25	0	25.70	25.10	25.03	25.25	0	25.70
		1	14	25.07	24.95	25.21	0	25.70	25.07	24.95	25.21	0	25.70
		8	0	24.01	23.89	24.13	1	24.70	24.01	23.89	24.13	1	24.70
		8	4	23.93	23.86	24.09	1	24.70	23.93	23.86	24.09	1	24.70
		8	7	23.94	23.93	24.07	1	24.70	23.94	23.93	24.07	1	24.70
		15	0	23.95	23.94	24.15	1	24.70	23.95	23.94	24.15	1	24.70
	16QAM	1	0	24.41	24.26	24.64	1	24.70	24.41	24.26	24.64	1	24.70
		1	8	24.36	24.33	24.63	1	24.70	24.36	24.33	24.63	1	24.70
		1	14	24.31	24.24	24.52	1	24.70	24.31	24.24	24.52	1	24.70
		8	0	22.97	22.78	23.13	2	23.70	22.97	22.78	23.13	2	23.70
		8	4	22.91	22.79	23.06	2	23.70	22.91	22.79	23.06	2	23.70
		8	7	22.92	22.83	23.06	2	23.70	22.92	22.83	23.06	2	23.70
		15	0	22.89	22.84	23.06	2	23.70	22.89	22.84	23.06	2	23.70
	64QAM	1	0	23.31	23.25	23.32	2	23.70	23.31	23.25	23.32	2	23.70
		1	8	23.38	23.23	23.46	2	23.70	23.38	23.23	23.46	2	23.70
		1	14	23.25	23.26	23.33	2	23.70	23.25	23.26	23.33	2	23.70
		8	0	21.95	21.91	22.03	3	22.70	21.95	21.91	22.03	3	22.70
		8	4	21.92	21.91	22.00	3	22.70	21.92	21.91	22.00	3	22.70
		8	7	21.93	21.91	22.00	3	22.70	21.93	21.91	22.00	3	22.70
		15	0	21.93	21.87	21.95	3	22.70	21.93	21.87	21.95	3	22.70

LTE Band 5 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20407	20525	20643	MPR	Tune-up Limit	20407	20525	20643	MPR	Tune-up Limit
				824.7 MHz	836.5 MHz	848.3 MHz			824.7 MHz	836.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	25.15	25.03	25.27	0	25.70	25.15	25.03	25.27	0	25.70
		1	3	25.13	25.01	25.25	0	25.70	25.13	25.01	25.25	0	25.70
		1	5	25.15	25.11	25.24	0	25.70	25.15	25.11	25.24	0	25.70
		3	0	25.00	24.90	25.20	0	25.70	25.00	24.90	25.20	0	25.70
		3	1	25.00	24.88	25.20	0	25.70	25.00	24.88	25.20	0	25.70
		3	3	24.99	24.95	25.18	0	25.70	24.99	24.95	25.18	0	25.70
	16QAM	6	0	24.02	23.88	24.11	1	24.70	24.02	23.88	24.11	1	24.70
		1	0	24.49	24.27	24.45	1	24.70	24.49	24.27	24.45	1	24.70
		1	3	24.49	24.29	24.45	1	24.70	24.49	24.29	24.45	1	24.70
		1	5	24.49	24.38	24.41	1	24.70	24.49	24.38	24.41	1	24.70
		3	0	24.17	24.04	24.13	1	24.70	24.17	24.04	24.13	1	24.70
		3	1	24.16	24.02	24.14	1	24.70	24.16	24.02	24.14	1	24.70
	64QAM	3	3	24.13	24.10	24.13	1	24.70	24.13	24.10	24.13	1	24.70
		6	0	22.94	22.99	23.11	2	23.70	22.94	22.99	23.11	2	23.70
		1	0	23.48	23.29	23.32	2	23.70	23.48	23.29	23.32	2	23.70
		1	3	23.56	23.24	23.23	2	23.70	23.56	23.24	23.23	2	23.70
		1	5	23.46	23.27	23.33	2	23.70	23.46	23.27	23.33	2	23.70
		3	0	23.18	22.99	23.10	2	23.70	23.18	22.99	23.10	2	23.70
		3	1	23.20	22.97	23.10	2	23.70	23.20	22.97	23.10	2	23.70
		3	3	23.18	22.99	23.10	2	23.70	23.18	22.99	23.10	2	23.70
		6	0	22.04	21.93	21.99	3	22.70	22.04	21.93	21.99	3	22.70

LTE Band 5 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
					20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit	
					836.5 MHz					836.5 MHz				
10 MHz	QPSK	1	0		24.30		0	24.50		24.30		0	24.50	
		1	25		24.40		0	24.50		24.40		0	24.50	
		1	49		24.33		0	24.50		24.33		0	24.50	
		25	0		23.20		1	23.50		23.20		1	23.50	
		25	12		23.31		1	23.50		23.31		1	23.50	
		25	25		23.29		1	23.50		23.29		1	23.50	
	16QAM	50	0		23.24		1	23.50		23.24		1	23.50	
		1	0		23.38		1	23.50		23.38		1	23.50	
		1	25		23.44		1	23.50		23.44		1	23.50	
		1	49		23.49		1	23.50		23.49		1	23.50	
		25	0		22.24		2	22.50		22.24		2	22.50	
		25	12		22.35		2	22.50		22.35		2	22.50	
	64QAM	25	25		22.41		2	22.50		22.41		2	22.50	
		50	0		22.33		2	22.50		22.33		2	22.50	
		1	0		22.43		2	22.50		22.43		2	22.50	
		1	25		22.43		2	22.50		22.43		2	22.50	
		1	49		22.48		2	22.50		22.48		2	22.50	
		25	0		21.23		3	21.50		21.23		3	21.50	
		25	12		21.31		3	21.50		21.31		3	21.50	
		25	25		21.32		3	21.50		21.32		3	21.50	
		50	0		21.31		3	21.50		21.31		3	21.50	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				20425	20525	20625	MPR	Tune-up Limit	20425	20525	20625	MPR	Tune-up Limit	
														826.5 MHz
5 MHz	QPSK	1	0		24.16	24.27	24.37	0	24.50	24.16	24.27	24.37	0	24.50
		1	12		24.15	24.27	24.24	0	24.50	24.15	24.27	24.24	0	24.50
		1	24		24.22	24.33	24.29	0	24.50	24.22	24.33	24.29	0	24.50
		12	0		23.11	23.22	23.26	1	23.50	23.11	23.22	23.26	1	23.50
		12	7		23.08	23.20	23.15	1	23.50	23.08	23.20	23.15	1	23.50
		12	13		23.07	23.19	23.13	1	23.50	23.07	23.19	23.13	1	23.50
	16QAM	25	0		23.09	23.21	23.16	1	23.50	23.09	23.21	23.16	1	23.50
		1	0		23.33	23.33	23.50	1	23.50	23.33	23.33	23.50	1	23.50
		1	12		23.33	23.31	23.45	1	23.50	23.33	23.31	23.45	1	23.50
		1	24		23.38	23.41	23.48	1	23.50	23.38	23.41	23.48	1	23.50
		12	0		22.05	22.19	22.29	2	22.50	22.05	22.19	22.29	2	22.50
		12	7		22.04	22.18	22.16	2	22.50	22.04	22.18	22.16	2	22.50
	64QAM	12	13		22.05	22.17	22.11	2	22.50	22.05	22.17	22.11	2	22.50
		25	0		22.06	22.15	22.12	2	22.50	22.06	22.15	22.12	2	22.50
		1	0		22.36	22.36	22.49	2	22.50	22.36	22.36	22.49	2	22.50
		1	12		22.39	22.32	22.31	2	22.50	22.39	22.32	22.31	2	22.50
		1	24		22.48	22.41	22.39	2	22.50	22.48	22.41	22.39	2	22.50
		12	0		21.05	21.19	21.11	3	21.50	21.05	21.19	21.11	3	21.50
		12	7		21.07	21.13	21.07	3	21.50	21.07	21.13	21.07	3	21.50
		12	13		21.08	21.10	21.05	3	21.50	21.08	21.10	21.05	3	21.50
		25	0		21.05	21.15	21.09	3	21.50	21.05	21.15	21.09	3	21.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				20415	20525	20635	MPR	Tune-up Limit	20415	20525	20635	MPR	Tune-up Limit	
														825.5 MHz
3 MHz	QPSK	1	0		24.19	24.22	24.22	0	24.50	24.19	24.22	24.22	0	24.50
		1	8		24.22	24.26	24.18	0	24.50	24.22	24.26	24.18	0	24.50
		1	14		24.18	24.21	24.18	0	24.50	24.18	24.21	24.18	0	24.50
		8	0		23.11	23.19	22.99	1	23.50	23.11	23.19	22.99	1	23.50
		8	4		23.08	23.18	22.98	1	23.50	23.08	23.18	22.98	1	23.50
		8	7		23.09	23.18	22.97	1	23.50	23.09	23.18	22.97	1	23.50
	16QAM	15	0		23.10	23.18	23.05	1	23.50	23.10	23.18	23.05	1	23.50
		1	0		23.34	23.48	23.39	1	23.50	23.34	23.48	23.39	1	23.50
		1	8		23.36	23.49	23.42	1	23.50	23.36	23.49	23.42	1	23.50
		1	14		23.29	23.41	23.39	1	23.50	23.29	23.41	23.39	1	23.50
		8	0		22.08	22.12	22.00	2	22.50	22.08	22.12	22.00	2	22.50
		8	4		22.06	22.12	22.04	2	22.50	22.06	22.12	22.04	2	22.50
		8	7		22.06	22.12	22.03	2	22.50	22.06	22.12	22.03	2	22.50
		15	0		22.04	22.10	22.04	2	22.50	22.04	22.10	22.04	2	22.50
	64QAM	1	0		22.37	22.45	22.44	2	22.50	22.37	22.45	22.44	2	22.50
		1	8		22.33	22.47	22.46	2	22.50	22.33	22.47	22.46	2	22.50
		1	14		22.25	22.42	22.40	2	22.50	22.25	22.42	22.40	2	22.50
		8	0		20.97	21.12	21.05	3	21.50	20.97	21.12	21.05	3	21.50
		8	4		20.97	21.11	21.02	3	21.50	20.97	21.11	21.02	3	21.50
		8	7		20.95	21.12	21.03	3	21.50	20.95	21.12	21.03	3	21.50
		15	0		20.97	21.08	20.97	3	21.50	20.97	21.08	20.97	3	21.50

LTE Band 5 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20407	20525	20643	MPR	Tune-up Limit	20407	20525	20643	MPR	Tune-up Limit
				824.7 MHz	836.5 MHz	848.3 MHz			824.7 MHz	836.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.29	24.28	24.20	0	24.50	24.29	24.28	24.20	0	24.50
		1	3	24.25	24.23	24.25	0	24.50	24.25	24.23	24.25	0	24.50
		1	5	24.26	24.26	24.27	0	24.50	24.26	24.26	24.27	0	24.50
		3	0	24.09	24.19	24.10	0	24.50	24.09	24.19	24.10	0	24.50
		3	1	24.07	24.18	24.08	0	24.50	24.07	24.18	24.08	0	24.50
		3	3	24.06	24.17	24.09	0	24.50	24.06	24.17	24.09	0	24.50
	16QAM	6	0	23.03	23.10	23.10	1	23.50	23.03	23.10	23.10	1	23.50
		1	0	23.40	23.31	23.45	1	23.50	23.40	23.31	23.45	1	23.50
		1	3	23.39	23.27	23.49	1	23.50	23.39	23.27	23.49	1	23.50
		1	5	23.36	23.30	23.45	1	23.50	23.36	23.30	23.45	1	23.50
		3	0	23.23	23.18	23.22	1	23.50	23.23	23.18	23.22	1	23.50
		3	1	23.22	23.17	23.20	1	23.50	23.22	23.17	23.20	1	23.50
	64QAM	3	3	23.22	23.21	23.21	1	23.50	23.22	23.21	23.21	1	23.50
		6	0	22.16	22.14	22.05	2	22.50	22.16	22.14	22.05	2	22.50
		1	0	22.33	22.42	22.39	2	22.50	22.33	22.42	22.39	2	22.50
		1	3	22.25	22.48	22.36	2	22.50	22.25	22.48	22.36	2	22.50
		1	5	22.41	22.45	22.46	2	22.50	22.41	22.45	22.46	2	22.50
		3	0	22.09	22.31	22.13	2	22.50	22.09	22.31	22.13	2	22.50
	64QAM	3	1	22.08	22.30	22.12	2	22.50	22.08	22.30	22.12	2	22.50
		3	3	22.07	22.29	22.08	2	22.50	22.07	22.29	22.08	2	22.50
		6	0	21.04	21.11	21.08	3	21.50	21.04	21.11	21.08	3	21.50

LTE Band 7 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	25.21	25.26	25.22	0	25.70	19.81	19.80	19.84	0	20.25
		1	49	25.22	25.35	25.30	0	25.70	19.95	20.10	20.20	0	20.25
		1	99	25.30	25.27	25.25	0	25.70	20.00	20.00	19.73	0	20.25
		50	0	24.19	24.15	24.07	1	24.70	19.65	19.59	19.58	0	20.25
		50	24	24.24	24.23	24.10	1	24.70	19.75	19.88	19.99	0	20.25
		50	50	24.21	24.19	24.06	1	24.70	19.61	19.56	19.45	0	20.25
	16QAM	100	0	24.25	24.10	23.99	1	24.70	19.66	19.80	19.43	0	20.25
		1	0	24.59	24.58	24.51	1	24.70	19.26	19.26	19.27	0	20.25
		1	49	24.61	24.38	24.21	1	24.70	19.64	19.54	19.50	0	20.25
		1	99	24.62	24.50	24.54	1	24.70	19.70	19.62	19.69	0	20.25
		50	0	23.18	23.19	23.11	2	23.70	20.08	20.03	20.00	0	20.25
		50	24	23.30	23.14	23.00	2	23.70	20.06	19.94	19.86	0	20.25
	64QAM	50	50	23.25	23.23	23.10	2	23.70	20.05	20.01	19.89	0	20.25
		100	0	23.28	23.12	23.02	2	23.70	20.07	19.95	19.88	0	20.25
		1	0	23.18	23.51	23.49	2	23.70	20.04	20.13	20.20	0	20.25
		1	49	23.14	23.37	23.22	2	23.70	20.07	20.04	19.96	0	20.25
		1	99	23.28	23.36	23.49	2	23.70	20.11	20.01	20.15	0	20.25
		50	0	22.06	22.13	22.07	3	22.70	19.95	19.74	19.77	0	20.25
15 MHz	QPSK	50	24	22.13	22.09	21.95	3	22.70	19.96	19.71	19.65	0	20.25
		50	50	22.23	22.04	22.05	3	22.70	20.07	19.67	19.74	0	20.25
		100	0	22.15	22.09	21.92	3	22.70	20.00	19.72	19.63	0	20.25
	16QAM	1	0	25.20	25.13	25.03	0	25.70	20.23	20.16	20.15	0	20.25
		1	37	25.22	25.05	24.95	0	25.70	20.25	20.16	20.01	0	20.25
		1	74	25.24	25.17	25.22	0	25.70	20.16	20.22	20.23	0	20.25
		36	0	24.17	24.09	23.94	1	24.70	19.58	19.49	19.33	0	20.25
		36	20	24.22	24.12	23.92	1	24.70	19.59	19.48	19.33	0	20.25
		36	39	24.22	24.18	23.99	1	24.70	19.55	19.52	19.37	0	20.25
	64QAM	75	0	24.21	24.11	23.94	1	24.70	19.57	19.48	19.35	0	20.25
		1	0	24.51	24.46	24.29	1	24.70	19.64	19.65	19.58	0	20.25
		1	37	24.51	24.39	24.18	1	24.70	19.59	19.61	19.49	0	20.25
		1	74	24.52	24.52	24.37	1	24.70	19.53	19.68	19.68	0	20.25
		36	0	23.17	23.13	22.98	2	23.70	19.89	19.83	19.68	0	20.25
		36	20	23.25	23.10	22.99	2	23.70	19.91	19.78	19.69	0	20.25
10 MHz	QPSK	36	39	23.25	23.17	23.06	2	23.70	19.88	19.82	19.73	0	20.25
		75	0	23.23	23.11	22.96	2	23.70	19.90	19.78	19.69	0	20.25
	16QAM	1	0	23.35	23.32	23.21	2	23.70	19.84	20.04	19.95	0	20.25
		1	37	23.34	23.28	23.07	2	23.70	19.76	20.00	19.78	0	20.25
		1	74	23.41	23.25	23.26	2	23.70	19.90	19.89	20.02	0	20.25
		36	0	22.08	22.20	21.98	3	22.70	19.64	19.73	19.65	0	20.25
	64QAM	36	20	22.13	22.18	22.01	3	22.70	19.65	19.73	19.62	0	20.25
		36	39	22.19	22.09	22.15	3	22.70	19.64	19.65	19.75	0	20.25
		75	0	22.11	22.14	21.99	3	22.70	19.64	19.70	19.58	0	20.25
	16QAM	1	0	25.20	25.11	24.99	0	25.70	20.19	20.19	19.98	0	20.25
		1	25	25.13	25.08	25.07	0	25.70	20.22	20.09	20.04	0	20.25
		1	49	25.24	25.16	25.29	0	25.70	20.24	20.21	20.22	0	20.25
		25	0	24.10	24.11	23.98	1	24.70	19.70	19.64	19.49	0	20.25
		25	12	24.09	24.07	24.09	1	24.70	19.69	19.61	19.52	0	20.25
		25	25	24.17	24.16	24.19	1	24.70	19.74	19.68	19.66	0	20.25
10 MHz	QPSK	50	0	24.11	24.08	24.04	1	24.70	19.73	19.62	19.55	0	20.25
		1	0	24.42	24.37	24.34	1	24.70	19.64	19.49	19.27	0	20.25
		1	25	24.34	24.40	24.31	1	24.70	19.58	19.44	19.29	0	20.25
		1	49	24.44	24.52	24.54	1	24.70	19.59	19.59	19.49	0	20.25
		25	0	23.14	23.12	23.07	2	23.70	20.24	20.19	20.05	0	20.25
		25	12	23.14	23.10	23.11	2	23.70	20.23	20.18	20.09	0	20.25
	16QAM	25	25	23.21	23.20	23.23	2	23.70	20.19	20.17	20.21	0	20.25
		50	0	23.16	23.12	23.11	2	23.70	20.24	20.15	20.10	0	20.25
		1	0	23.22	23.35	23.12	2	23.70	20.24	20.19	20.22	0	20.25
		1	25	23.20	23.28	23.13	2	23.70	20.24	20.17	20.17	0	20.25
		1	49	23.23	23.27	23.38	2	23.70	20.18	20.11	20.15	0	20.25
		25	0	22.05	22.17	21.97	3	22.70	20.13	20.17	20.00	0	20.25
	64QAM	25	12	22.06	22.14	22.05	3	22.70	20.13	20.16	20.08	0	20.25
		25	25	22.11	22.06	22.27	3	22.70	20.15	20.13	20.24	0	20.25
		50	0	22.09	22.13	22.16	3	22.70	20.16	20.20	20.15	0	20.25

LTE Band 7 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	25.14	25.07	25.02	0	25.70	20.25	20.13	20.05	0	20.25
		1	12	25.03	25.05	25.15	0	25.70	20.14	20.06	20.18	0	20.25
		1	24	25.11	25.15	25.20	0	25.70	20.19	20.16	20.18	0	20.25
		12	0	24.06	24.00	24.07	1	24.70	19.65	19.53	19.53	0	20.25
		12	7	24.01	23.96	24.17	1	24.70	19.60	19.51	19.59	0	20.25
		12	13	24.03	23.96	24.19	1	24.70	19.64	19.50	19.58	0	20.25
	16QAM	25	0	23.99	23.97	24.16	1	24.70	19.61	19.49	19.60	0	20.25
		1	0	24.51	24.34	24.43	1	24.70	19.69	19.44	19.46	0	20.25
		1	12	24.37	24.30	24.52	1	24.70	19.58	19.36	19.59	0	20.25
		1	24	24.45	24.41	24.55	1	24.70	19.60	19.52	19.53	0	20.25
		12	0	23.01	22.97	23.04	2	23.70	20.17	20.04	20.00	0	20.25
		12	7	23.00	22.99	23.10	2	23.70	20.14	20.02	20.05	0	20.25
	64QAM	12	13	23.02	22.99	23.09	2	23.70	20.19	20.03	20.07	0	20.25
		25	0	23.00	22.93	23.03	2	23.70	20.08	19.99	20.08	0	20.25
		1	0	23.27	23.30	23.42	2	23.70	20.24	20.23	20.16	0	20.25
		1	12	23.19	23.29	23.46	2	23.70	20.24	20.24	20.13	0	20.25
		1	24	23.23	23.26	23.46	2	23.70	20.20	20.24	20.24	0	20.25
		12	0	22.00	21.98	22.04	3	22.70	20.16	20.17	20.24	0	20.25
		12	7	21.97	21.93	22.08	3	22.70	20.16	20.12	20.24	0	20.25
		12	13	22.00	21.93	22.06	3	22.70	20.18	20.17	20.24	0	20.25
		25	0	21.96	21.93	22.06	3	22.70	20.12	20.15	20.24	0	20.25

LTE Band 7 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	18.93	18.83	18.83	0	19.25	19.93	20.20	20.20	0	20.50
		1	49	19.10	18.95	18.90	0	19.25	20.10	20.25	20.25	0	20.50
		1	99	18.91	18.77	18.84	0	19.25	19.94	19.84	19.85	0	20.50
		50	0	18.84	18.78	18.68	0	19.25	19.97	19.66	19.74	0	20.50
		50	24	19.00	18.85	18.89	0	19.25	20.20	20.25	20.25	0	20.50
		50	50	18.90	18.69	18.72	0	19.25	20.05	19.76	19.71	0	20.50
	16QAM	100	0	18.70	18.76	18.69	0	19.25	19.98	20.25	19.70	0	20.50
		1	0	19.25	19.18	19.05	0	19.25	20.47	20.05	20.24	0	20.50
		1	49	19.24	19.07	18.99	0	19.25	20.36	19.99	20.02	0	20.50
		1	99	19.22	19.11	19.16	0	19.25	20.30	20.22	20.15	0	20.50
		50	0	18.50	18.48	18.35	0	19.25	20.02	19.69	19.78	0	20.50
		50	24	18.45	18.45	18.36	0	19.25	19.98	19.73	19.76	0	20.50
	64QAM	50	50	18.47	18.36	18.42	0	19.25	20.01	19.77	19.73	0	20.50
		100	0	18.47	18.43	18.36	0	19.25	19.99	19.71	19.68	0	20.50
		1	0	19.20	18.91	19.09	0	19.25	20.35	20.11	20.32	0	20.50
		1	49	19.11	18.84	19.04	0	19.25	20.26	19.99	20.14	0	20.50
		1	99	19.19	18.86	19.08	0	19.25	20.37	20.05	20.32	0	20.50
		50	0	18.78	18.78	18.73	0	19.25	19.26	19.32	19.26	0.25	20.25
15 MHz	QPSK	50	24	18.84	18.78	18.75	0	19.25	19.34	19.42	19.26	0.25	20.25
		50	50	18.86	18.69	18.80	0	19.25	19.45	19.27	19.65	0.25	20.25
		100	0	18.83	18.77	18.73	0	19.25	19.45	19.31	19.55	0.25	20.25
	16QAM	1	0	18.93	18.87	18.81	0	19.25	20.23	19.85	20.05	0	20.50
		1	37	18.86	18.87	18.77	0	19.25	20.15	19.90	20.01	0	20.50
		1	74	18.94	18.72	18.92	0	19.25	20.20	19.96	20.03	0	20.50
	64QAM	36	0	18.92	18.90	18.80	0	19.25	20.21	19.88	19.92	0	20.50
		36	20	18.94	18.89	18.81	0	19.25	20.19	19.85	20.02	0	20.50
		36	39	18.96	18.82	18.82	0	19.25	20.22	19.96	20.06	0	20.50
	16QAM	75	0	18.91	18.84	18.74	0	19.25	20.12	19.90	20.01	0	20.50
		1	0	19.12	19.18	19.15	0	19.25	20.43	20.21	20.37	0	20.50
		1	37	19.12	19.14	19.08	0	19.25	20.36	20.26	20.34	0	20.50
		1	74	19.15	19.03	19.11	0	19.25	20.47	20.28	20.40	0	20.50
	64QAM	36	0	18.39	18.41	18.32	0	19.25	20.21	19.90	19.98	0	20.50
		36	20	18.40	18.41	18.32	0	19.25	20.17	19.92	20.03	0	20.50
		36	39	18.50	18.30	18.35	0	19.25	20.22	20.02	20.03	0	20.50
10 MHz	QPSK	75	0	18.40	18.38	18.28	0	19.25	20.16	19.95	19.99	0	20.50
		1	0	19.10	18.98	18.86	0	19.25	20.26	20.17	20.05	0	20.50
		1	37	19.10	18.98	18.78	0	19.25	20.24	20.18	20.00	0	20.50
		1	74	19.14	18.87	18.83	0	19.25	20.29	20.02	20.16	0	20.50
		36	0	18.85	18.83	18.75	0	19.25	19.33	19.25	19.35	0.25	20.25
		36	20	18.91	18.83	18.75	0	19.25	19.36	19.61	19.31	0.25	20.25
	16QAM	36	39	18.89	18.76	18.77	0	19.25	19.36	19.54	19.26	0.25	20.25
		75	0	18.87	18.78	18.68	0	19.25	19.33	19.38	19.36	0.25	20.25
		1	0	18.97	18.94	18.93	0	19.25	20.24	19.86	19.92	0	20.50
		1	25	18.95	18.94	18.84	0	19.25	20.18	19.82	20.00	0	20.50
		1	49	19.02	18.90	18.99	0	19.25	20.15	19.92	20.04	0	20.50
		25	0	18.95	18.93	18.84	0	19.25	20.19	19.84	19.95	0	20.50
	64QAM	25	12	18.94	18.93	18.86	0	19.25	20.16	19.82	20.01	0	20.50
		25	25	18.99	18.89	18.94	0	19.25	20.14	19.97	20.04	0	20.50
		50	0	18.94	18.95	18.87	0	19.25	20.15	19.88	20.03	0	20.50
		1	0	19.22	19.25	19.24	0	19.25	20.47	20.19	20.26	0	20.50
		1	25	19.19	19.22	19.10	0	19.25	20.43	20.18	20.33	0	20.50
		1	49	19.20	19.09	19.17	0	19.25	20.40	20.38	20.44	0	20.50
10 MHz	16QAM	25	0	18.44	18.41	18.33	0	19.25	20.24	19.91	19.97	0	20.50
		25	12	18.42	18.41	18.38	0	19.25	20.22	19.89	19.99	0	20.50
		25	25	18.44	18.32	18.45	0	19.25	20.19	20.03	20.06	0	20.50
		50	0	18.41	18.41	18.38	0	19.25	20.21	19.93	20.00	0	20.50
		1	0	18.94	18.98	18.98	0	19.25	20.13	20.15	20.06	0	20.50
		1	25	18.95	18.97	19.00	0	19.25	20.10	20.14	20.08	0	20.50
	64QAM	1	49	19.01	18.86	19.06	0	19.25	20.11	20.11	20.23	0	20.50
		25	0	18.83	18.82	18.78	0	19.25	19.40	19.42	19.37	0.25	20.25
		25	12	18.85	18.82	18.78	0	19.25	19.38	19.43	19.39	0.25	20.25
		25	25	18.87	18.78	18.87	0	19.25	19.43	19.40	19.48	0.25	20.25
		50	0	18.86	18.81	18.77	0	19.25	19.39	19.42	19.39	0.25	20.25

LTE Band 7 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	18.70	18.64	18.60	0	19.25	19.91	19.58	19.69	0	20.50
		1	12	18.67	18.61	18.61	0	19.25	19.86	19.57	19.66	0	20.50
		1	24	18.69	18.56	18.75	0	19.25	19.84	19.62	19.76	0	20.50
		12	0	18.63	18.59	18.57	0	19.25	19.82	19.57	19.60	0	20.50
		12	7	18.57	18.57	18.61	0	19.25	19.80	19.83	19.63	0	20.50
		12	13	18.60	18.55	18.65	0	19.25	19.79	19.65	19.63	0	20.50
	16QAM	25	0	18.57	18.55	18.60	0	19.25	19.80	19.78	19.65	0	20.50
		1	0	18.99	18.87	18.95	0	19.25	20.32	19.85	20.14	0	20.50
		1	12	18.98	18.83	18.99	0	19.25	20.24	19.84	20.11	0	20.50
		1	24	18.99	18.82	19.09	0	19.25	20.23	19.90	20.26	0	20.50
		12	0	18.77	18.68	18.76	0	19.25	19.81	19.82	19.66	0	20.50
		12	7	18.78	18.27	18.42	0	19.25	19.79	19.55	19.66	0	20.50
	64QAM	12	13	18.97	18.25	18.25	0	19.25	19.79	19.50	19.68	0	20.50
		25	0	18.68	18.30	18.78	0	19.25	19.81	19.60	19.65	0	20.50
		1	0	18.92	18.96	18.95	0	19.25	20.13	20.21	20.22	0	20.50
		1	12	18.95	18.96	18.91	0	19.25	20.14	20.20	20.24	0	20.50
		1	24	18.90	18.89	19.03	0	19.25	20.16	20.10	20.33	0	20.50
		12	0	18.58	18.58	18.69	0	19.25	19.61	19.58	19.54	0.25	20.25
		12	7	18.60	18.57	18.74	0	19.25	19.58	19.53	19.60	0.25	20.25
		12	13	18.60	18.56	18.76	0	19.25	19.60	19.56	19.67	0.25	20.25
		25	0	18.62	18.56	18.73	0	19.25	19.56	19.55	19.64	0.25	20.25

LTE Band 7 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	24.55	24.72	24.69	0	25.00	19.54	19.55	19.58	0	20.00
		1	49	24.61	24.92	24.85	0	25.00	19.65	19.85	19.80	0	20.00
		1	99	24.61	24.92	24.79	0	25.00	19.32	19.85	19.65	0	20.00
		50	0	23.63	23.91	23.65	1	24.00	19.22	19.64	19.65	0	20.00
		50	24	23.67	23.97	23.75	1	24.00	19.50	19.75	19.90	0	20.00
		50	50	23.60	23.90	23.68	1	24.00	19.22	19.67	19.83	0	20.00
	16QAM	100	0	23.60	23.96	23.71	1	24.00	19.16	19.66	19.60	0	20.00
		1	0	23.63	23.64	23.91	1	24.00	19.26	19.93	19.95	0	20.00
		1	49	23.88	23.82	23.89	1	24.00	19.56	19.91	19.95	0	20.00
		1	99	23.88	23.97	23.99	1	24.00	19.67	19.76	19.77	0	20.00
		50	0	22.62	22.88	22.70	2	23.00	19.23	19.71	19.75	0	20.00
		50	24	22.67	22.94	22.77	2	23.00	19.25	19.75	19.88	0	20.00
	64QAM	50	50	22.67	22.99	22.75	2	23.00	19.27	19.75	19.85	0	20.00
		100	0	22.65	22.91	22.74	2	23.00	19.20	19.71	19.80	0	20.00
		1	0	22.42	22.75	22.68	2	23.00	19.25	19.39	19.87	0	20.00
		1	49	22.60	22.94	22.71	2	23.00	19.27	19.60	19.89	0	20.00
		1	99	22.68	22.99	22.84	2	23.00	19.25	19.75	19.99	0	20.00
		50	0	21.62	21.95	21.69	3	22.00	19.14	19.53	19.77	0	20.00
		50	24	21.71	21.91	21.75	3	22.00	19.24	19.57	19.81	0	20.00
		50	50	21.68	21.97	21.76	3	22.00	19.27	19.66	19.82	0	20.00
		100	0	21.69	21.90	21.73	3	22.00	19.18	19.57	19.83	0	20.00
15 MHz	QPSK	1	0	24.29	24.77	24.60	0	25.00	19.01	19.66	19.64	0	20.00
		1	37	24.52	24.91	24.60	0	25.00	19.28	19.74	19.88	0	20.00
		1	74	24.62	24.99	24.70	0	25.00	19.24	19.60	19.61	0	20.00
		36	0	23.69	23.90	23.66	1	24.00	19.35	19.66	19.74	0	20.00
		36	20	23.67	23.98	23.62	1	24.00	19.29	19.78	19.90	0	20.00
		36	39	23.74	23.99	23.68	1	24.00	19.28	19.69	19.76	0	20.00
		75	0	23.54	23.94	23.62	1	24.00	19.24	19.70	19.81	0	20.00
	16QAM	1	0	23.46	23.93	23.76	1	24.00	19.21	19.91	19.91	0	20.00
		1	37	23.70	23.96	23.71	1	24.00	19.56	19.94	19.93	0	20.00
		1	74	23.81	23.99	23.86	1	24.00	19.55	19.95	19.92	0	20.00
		36	0	22.60	22.91	22.70	2	23.00	19.35	19.73	19.74	0	20.00
		36	20	22.59	22.96	22.64	2	23.00	19.31	19.82	19.91	0	20.00
		36	39	22.65	22.99	22.67	2	23.00	19.30	19.73	19.80	0	20.00
	64QAM	75	0	22.56	22.98	22.61	2	23.00	19.27	19.77	19.85	0	20.00
		1	0	22.47	22.71	22.82	2	23.00	19.64	19.61	19.96	0	20.00
		1	37	22.72	22.80	22.83	2	23.00	19.96	19.72	19.95	0	20.00
		1	74	22.84	22.92	22.98	2	23.00	20.00	19.83	19.96	0	20.00
		36	0	21.61	21.92	21.74	3	22.00	19.75	19.55	19.91	0	20.00
		36	20	21.56	21.94	21.72	3	22.00	19.72	19.65	19.82	0	20.00
		36	39	21.63	21.97	21.74	3	22.00	19.80	19.74	19.87	0	20.00
		75	0	21.53	21.98	21.69	3	22.00	19.70	19.59	19.80	0	20.00
10 MHz	QPSK	1	0	24.29	24.91	24.77	0	25.00	19.07	19.66	19.85	0	20.00
		1	25	24.52	24.92	24.71	0	25.00	19.34	19.77	19.82	0	20.00
		1	49	24.66	25.00	24.85	0	25.00	19.41	19.71	19.63	0	20.00
		25	0	23.56	23.89	23.71	1	24.00	19.19	19.67	19.87	0	20.00
		25	12	23.57	23.95	23.76	1	24.00	19.32	19.75	19.77	0	20.00
		25	25	23.54	23.92	23.82	1	24.00	19.31	19.68	19.63	0	20.00
		50	0	23.60	23.95	23.71	1	24.00	19.24	19.67	19.77	0	20.00
	16QAM	1	0	23.51	23.85	23.89	1	24.00	19.23	19.87	19.95	0	20.00
		1	25	23.81	23.87	23.91	1	24.00	19.53	19.94	19.97	0	20.00
		1	49	23.92	23.99	23.95	1	24.00	19.63	19.94	19.86	0	20.00
		25	0	22.57	22.91	22.67	2	23.00	19.17	19.74	19.91	0	20.00
		25	12	22.59	22.96	22.72	2	23.00	19.29	19.83	19.81	0	20.00
		25	25	22.57	22.96	22.83	2	23.00	19.29	19.76	19.70	0	20.00
	64QAM	50	0	22.59	22.96	22.72	2	23.00	19.25	19.70	19.83	0	20.00
		1	0	22.29	22.80	22.92	2	23.00	19.95	19.70	19.93	0	20.00
		1	25	22.61	22.82	22.89	2	23.00	19.76	19.70	19.89	0	20.00
		1	49	22.67	22.98	22.90	2	23.00	19.96	19.97	19.99	0	20.00
		25	0	21.48	21.76	21.74	3	22.00	19.61	19.66	19.70	0	20.00
		25	12	21.52	21.83	21.79	3	22.00	19.67	19.66	19.73	0	20.00
		25	25	21.55	21.90	21.91	3	22.00	19.68	19.77	19.89	0	20.00
		50	0	21.55	21.86	21.76	3	22.00	19.66	19.68	19.77	0	20.00

LTE Band 7 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	24.20	24.82	24.75	0	25.00	19.19	19.59	19.78	0	20.00
		1	12	24.44	24.83	24.83	0	25.00	19.35	19.59	19.56	0	20.00
		1	24	24.54	24.94	24.85	0	25.00	19.51	19.62	19.56	0	20.00
		12	0	23.30	23.82	23.73	1	24.00	19.19	19.62	19.61	0	20.00
		12	7	23.40	23.82	23.78	1	24.00	19.29	19.62	19.51	0	20.00
		12	13	23.53	23.83	23.79	1	24.00	19.42	19.56	19.51	0	20.00
		25	0	23.38	23.82	23.82	1	24.00	19.27	19.53	19.50	0	20.00
	16QAM	1	0	23.49	23.84	23.99	1	24.00	19.56	19.88	19.96	0	20.00
		1	12	23.70	23.88	23.99	1	24.00	19.74	19.86	19.97	0	20.00
		1	24	23.75	23.99	24.00	1	24.00	19.86	19.92	19.97	0	20.00
		12	0	22.19	22.81	22.67	2	23.00	19.16	19.58	19.64	0	20.00
		12	7	22.30	22.79	22.72	2	23.00	19.26	19.59	19.54	0	20.00
		12	13	22.47	22.79	22.74	2	23.00	19.36	19.58	19.54	0	20.00
		25	0	22.36	22.77	22.74	2	23.00	19.27	19.54	19.47	0	20.00
	64QAM	1	0	22.38	22.82	22.92	2	23.00	19.66	19.84	19.95	0	20.00
		1	12	22.57	22.86	22.98	2	23.00	19.83	19.81	19.95	0	20.00
		1	24	22.63	22.99	22.95	2	23.00	19.97	19.97	19.98	0	20.00
		12	0	21.14	21.90	21.76	3	22.00	19.75	19.51	19.79	0	20.00
		12	7	21.29	21.80	21.80	3	22.00	19.82	19.48	19.78	0	20.00
		12	13	21.34	21.79	21.76	3	22.00	19.93	19.54	19.79	0	20.00
		25	0	21.32	21.82	21.73	3	22.00	19.85	19.53	19.79	0	20.00

LTE Band 7 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	17.50	17.69	17.71	0	18.00	18.14	18.15	18.12	0	18.50
		1	49	17.56	17.71	17.76	0	18.00	18.25	18.20	18.27	0	18.50
		1	99	17.43	17.65	17.74	0	18.00	18.20	18.17	18.14	0	18.50
		50	0	17.59	17.60	17.70	0	18.00	18.15	18.25	18.20	0	18.50
		50	24	17.68	17.67	17.72	0	18.00	18.50	18.25	18.50	0	18.50
		50	50	17.58	17.61	17.58	0	18.00	18.16	18.21	18.12	0	18.50
		100	0	17.60	17.64	17.60	0	18.00	18.10	18.27	18.14	0	18.50
	16QAM	1	0	18.00	17.64	17.59	0	18.00	18.49	18.20	18.06	0	18.50
		1	49	17.97	17.56	17.56	0	18.00	18.50	18.04	18.48	0	18.50
		1	99	17.84	17.51	17.46	0	18.00	18.38	17.97	17.97	0	18.50
		50	0	17.66	17.29	17.23	0	18.00	18.21	17.80	17.70	0	18.50
		50	24	17.59	17.25	17.25	0	18.00	18.15	17.74	17.70	0	18.50
		50	50	17.60	17.17	17.24	0	18.00	18.15	17.64	17.73	0	18.50
		100	0	17.59	17.25	17.23	0	18.00	18.15	17.74	17.71	0	18.50
	64QAM	1	0	17.56	17.67	17.47	0	18.00	18.05	18.06	17.88	0	18.50
		1	49	17.62	17.49	17.64	0	18.00	18.10	17.85	17.93	0	18.50
		1	99	17.50	17.48	17.93	0	18.00	17.94	17.85	18.26	0	18.50
		50	0	17.62	17.26	17.24	0	18.00	18.08	17.62	17.67	0	18.50
		50	24	17.59	17.17	17.23	0	18.00	18.04	17.56	17.67	0	18.50
		50	50	17.55	17.16	17.38	0	18.00	18.00	17.56	17.79	0	18.50
		100	0	17.48	17.17	17.23	0	18.00	18.02	17.56	17.67	0	18.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20825	21100	21375	MPR	Tune-up Limit	20825	21100	21375	MPR	Tune-up Limit
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	17.49	17.24	17.15	0	18.00	18.02	17.78	17.71	0	18.50
		1	37	17.62	17.19	17.24	0	18.00	18.10	17.72	17.73	0	18.50
		1	74	17.57	17.05	17.13	0	18.00	18.05	17.57	17.63	0	18.50
		36	0	17.74	17.22	17.13	0	18.00	18.24	17.75	17.66	0	18.50
		36	20	17.63	17.21	17.23	0	18.00	18.13	17.74	17.74	0	18.50
		36	39	17.61	17.11	17.18	0	18.00	18.11	17.62	17.69	0	18.50
		75	0	17.60	17.20	17.22	0	18.00	18.11	17.73	17.68	0	18.50
	16QAM	1	0	17.74	17.55	17.54	0	18.00	18.26	18.12	18.06	0	18.50
		1	37	17.85	17.52	17.57	0	18.00	18.35	18.05	18.08	0	18.50
		1	74	17.82	17.40	17.45	0	18.00	18.34	17.91	17.95	0	18.50
		36	0	17.76	17.26	17.19	0	18.00	18.26	17.78	17.71	0	18.50
		36	20	17.66	17.25	17.28	0	18.00	18.15	17.77	17.80	0	18.50
		36	39	17.64	17.14	17.23	0	18.00	18.13	17.65	17.70	0	18.50
		75	0	17.63	17.23	17.25	0	18.00	18.13	17.75	17.69	0	18.50
	64QAM	1	0	17.73	17.53	17.43	0	18.00	18.20	17.96	17.85	0	18.50
		1	37	17.80	17.39	17.43	0	18.00	18.31	17.79	17.83	0	18.50
		1	74	17.72	17.42	17.74	0	18.00	18.21	17.75	18.12	0	18.50
		36	0	17.58	17.28	17.36	0	18.00	18.11	17.73	17.70	0	18.50
		36	20	17.57	17.24	17.34	0	18.00	18.08	17.65	17.76	0	18.50
		36	39	17.54	17.24	17.48	0	18.00	18.06	17.63	17.88	0	18.50
		75	0	17.53	17.19	17.27	0	18.00	17.99	17.61	17.71	0	18.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800	21100	21400	MPR	Tune-up Limit	20800	21100	21400	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	17.56	17.28	17.16	0	18.00	18.07	17.77	17.69	0	18.50
		1	25	17.69	17.23	17.13	0	18.00	18.24	17.72	17.67	0	18.50
		1	49	17.65	17.17	17.07	0	18.00	18.22	17.62	17.64	0	18.50
		25	0	17.67	17.26	17.15	0	18.00	18.20	17.74	17.69	0	18.50
		25	12	17.66	17.23	17.11	0	18.00	18.21	17.71	17.65	0	18.50
		25	25	17.63	17.16	17.07	0	18.00	18.17	17.62	17.62	0	18.50
		50	0	17.67	17.23	17.11	0	18.00	18.21	17.72	17.65	0	18.50
	16QAM	1	0	17.82	17.57	17.47	0	18.00	18.31	18.10	18.03	0	18.50
		1	25	17.94	17.55	17.47	0	18.00	18.48	18.05	18.00	0	18.50
		1	49	17.88	17.51	17.44	0	18.00	18.47	17.96	17.94	0	18.50
		25	0	17.72	17.30	17.20	0	18.00	18.24	17.77	17.75	0	18.50
		25	12	17.72	17.28	17.16	0	18.00	18.26	17.75	17.70	0	18.50
		25	25	17.67	17.21	17.12	0	18.00	18.21	17.65	17.67	0	18.50
		50	0	17.71	17.27	17.17	0	18.00	18.25	17.75	17.70	0	18.50
	64QAM	1	0	17.67	17.44	17.44	0	18.00	18.00	17.89	17.89	0	18.50
		1	25	17.77	17.36	17.62	0	18.00	18.19	17.73	18.07	0	18.50
		1	49	17.67	17.38	17.74	0	18.00	18.21	17.76	18.17	0	18.50
		25	0	17.57	17.31	17.30	0	18.00	18.01	17.68	17.75	0	18.50
		25	12	17.59	17.23	17.45	0	18.00	18.06	17.59	17.90	0	18.50
		25	25	17.52	17.24	17.62	0	18.00	18.04	17.60	18.06	0	18.50
		50	0	17.59	17.20	17.45	0	18.00	18.07	17.59	17.91	0	18.50

LTE Band 7 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	17.44	17.21	17.12	0	18.00	17.94	17.75	17.64	0	18.50
		1	12	17.57	17.16	17.06	0	18.00	18.10	17.70	17.55	0	18.50
		1	24	17.60	17.11	17.12	0	18.00	18.14	17.62	17.60	0	18.50
		12	0	17.49	17.11	17.01	0	18.00	17.98	17.65	17.51	0	18.50
		12	7	17.53	17.09	16.99	0	18.00	18.05	17.66	17.50	0	18.50
		12	13	17.62	17.08	16.97	0	18.00	18.12	17.70	17.51	0	18.50
		25	0	17.50	17.07	16.98	0	18.00	18.02	17.69	17.50	0	18.50
	16QAM	1	0	17.83	17.50	17.57	0	18.00	18.32	18.11	18.04	0	18.50
		1	12	17.99	17.43	17.49	0	18.00	18.49	18.06	17.97	0	18.50
		1	24	17.98	17.40	17.52	0	18.00	18.50	17.98	18.02	0	18.50
		12	0	17.49	17.13	17.03	0	18.00	17.96	17.70	17.56	0	18.50
		12	7	17.50	17.08	17.00	0	18.00	18.03	17.72	17.53	0	18.50
		12	13	17.59	17.07	16.96	0	18.00	18.11	17.70	17.52	0	18.50
		25	0	17.53	17.04	16.96	0	18.00	18.06	17.67	17.50	0	18.50
	64QAM	1	0	17.65	17.53	17.84	0	18.00	18.08	17.92	18.21	0	18.50
		1	12	17.74	17.36	17.88	0	18.00	18.13	17.76	18.26	0	18.50
		1	24	17.79	17.45	18.00	0	18.00	18.23	17.85	18.34	0	18.50
		12	0	17.35	17.03	17.47	0	18.00	17.86	17.44	17.81	0	18.50
		12	7	17.39	17.02	17.44	0	18.00	17.83	17.42	17.81	0	18.50
		12	13	17.42	17.01	17.45	0	18.00	17.87	17.43	17.77	0	18.50
		25	0	17.38	17.02	17.44	0	18.00	17.84	17.45	17.81	0	18.50

LTE Band 12 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
					23095		MPR	Tune-up Limit		23095		MPR	Tune-up Limit	
					707.5 MHz					707.5 MHz				
10 MHz	QPSK	1	0		24.99		0	25.70		24.99		0	25.70	
		1	25		25.30		0	25.70		25.30		0	25.70	
		1	49		24.98		0	25.70		24.98		0	25.70	
		25	0		24.11		1	24.70		24.11		1	24.70	
		25	12		24.30		1	24.70		24.30		1	24.70	
		25	25		23.97		1	24.70		23.97		1	24.70	
		50	0		24.20		1	24.70		24.20		1	24.70	
	16QAM	1	0		24.44		1	24.70		24.44		1	24.70	
		1	25		24.43		1	24.70		24.43		1	24.70	
		1	49		24.38		1	24.70		24.38		1	24.70	
		25	0		23.16		2	23.70		23.16		2	23.70	
		25	12		23.14		2	23.70		23.14		2	23.70	
		25	25		22.99		2	23.70		22.99		2	23.70	
	64QAM	50	0		23.14		2	23.70		23.14		2	23.70	
		1	0		22.96		2	23.70		22.96		2	23.70	
		1	25		23.09		2	23.70		23.09		2	23.70	
		1	49		23.06		2	23.70		23.06		2	23.70	
		25	0		21.82		3	22.70		21.82		3	22.70	
		25	12		21.84		3	22.70		21.84		3	22.70	
		25	25		21.81		3	22.70		21.81		3	22.70	
		50	0		21.84		3	22.70		21.84		3	22.70	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				23035	23095	23155	MPR	Tune-up Limit	23035	23095	23155	MPR	Tune-up Limit	
														701.5 MHz
5 MHz	QPSK	1	0	24.96	25.16	24.90	0	25.70	24.96	25.16	24.90	0	25.70	
		1	12	25.04	25.13	25.01	0	25.70	25.04	25.13	25.01	0	25.70	
		1	24	25.13	24.94	24.96	0	25.70	25.13	24.94	24.96	0	25.70	
		12	0	23.97	24.07	23.88	1	24.70	23.97	24.07	23.88	1	24.70	
		12	7	23.98	24.06	23.97	1	24.70	23.98	24.06	23.97	1	24.70	
		12	13	24.00	24.01	23.96	1	24.70	24.00	24.01	23.96	1	24.70	
	16QAM	25	0	24.00	24.05	23.99	1	24.70	24.00	24.05	23.99	1	24.70	
		1	0	24.38	24.50	24.35	1	24.70	24.38	24.50	24.35	1	24.70	
		1	12	24.51	24.44	24.45	1	24.70	24.51	24.44	24.45	1	24.70	
		1	24	24.54	24.31	24.42	1	24.70	24.54	24.31	24.42	1	24.70	
		12	0	22.94	23.02	22.96	2	23.70	22.94	23.02	22.96	2	23.70	
		12	7	22.93	23.04	22.95	2	23.70	22.93	23.04	22.95	2	23.70	
	64QAM	12	13	22.92	22.98	22.90	2	23.70	22.92	22.98	22.90	2	23.70	
		25	0	22.92	22.98	22.95	2	23.70	22.92	22.98	22.95	2	23.70	
		1	0	23.01	23.16	23.02	2	23.70	23.01	23.16	23.02	2	23.70	
		1	12	22.94	23.15	23.24	2	23.70	22.94	23.15	23.24	2	23.70	
		1	24	23.07	23.16	23.22	2	23.70	23.07	23.16	23.22	2	23.70	
		12	0	21.91	21.74	21.85	3	22.70	21.84	21.74	21.75	3	22.70	
3 MHz	QPSK	12	7	21.93	21.75	21.85	3	22.70	21.85	21.75	21.75	3	22.70	
		12	13	21.93	21.72	21.84	3	22.70	21.82	21.72	21.74	3	22.70	
		25	0	21.90	21.77	21.90	3	22.70	21.87	21.77	21.80	3	22.70	
		16QAM	1	0	24.96	25.06	25.05	0	25.70	24.96	25.06	25.05	0	25.70
			1	8	25.09	25.14	25.07	0	25.70	25.09	25.14	25.07	0	25.70
			1	14	25.07	25.05	24.93	0	25.70	25.07	25.05	24.93	0	25.70
64QAM	8		0	23.87	24.03	23.90	1	24.70	23.87	24.03	23.90	1	24.70	
	8		4	23.93	24.03	23.86	1	24.70	23.93	24.03	23.86	1	24.70	
	8		7	23.93	24.02	23.87	1	24.70	23.93	24.02	23.87	1	24.70	
	15	0	23.94	24.03	23.93	1	24.70	23.94	24.03	23.93	1	24.70		
	1	0	24.19	24.45	24.40	1	24.70	24.19	24.45	24.40	1	24.70		
	1	8	24.35	24.47	24.36	1	24.70	24.35	24.47	24.36	1	24.70		
3 MHz	16QAM	1	14	24.34	24.38	24.23	1	24.70	24.34	24.38	24.23	1	24.70	
		8	0	22.85	22.94	22.92	2	23.70	22.85	22.94	22.92	2	23.70	
		8	4	22.90	23.00	22.86	2	23.70	22.90	23.00	22.86	2	23.70	
		8	7	22.90	22.97	22.85	2	23.70	22.90	22.97	22.85	2	23.70	
		15	0	22.88	22.97	22.86	2	23.70	22.88	22.97	22.86	2	23.70	
		1	0	22.85	23.02	23.08	2	23.70	22.85	23.02	23.08	2	23.70	
	64QAM	1	8	22.88	23.17	23.02	2	23.70	22.88	23.17	23.02	2	23.70	
		1	14	22.83	23.06	23.06	2	23.70	22.83	23.06	23.06	2	23.70	
		8	0	21.91	21.74	21.88	3	22.70	21.81	21.74	21.78	3	22.70	
		8	4	21.91	21.78	21.87	3	22.70	21.81	21.78	21.77	3	22.70	
8	7	21.91	21.78	21.87	3	22.70	21.81	21.78	21.77	3	22.70			
15	0	21.92	21.76	21.82	3	22.70	21.82	21.76	21.72	3	22.70			

LTE Band 12 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23017	23095	23173	MPR	Tune-up Limit	23017	23095	23173	MPR	Tune-up Limit
				699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	25.02	25.16	25.04	0	25.70	25.02	25.16	25.04	0	25.70
		1	3	25.03	25.06	24.97	0	25.70	25.03	25.06	24.97	0	25.70
		1	5	25.11	25.05	24.98	0	25.70	25.11	25.05	24.98	0	25.70
		3	0	24.89	24.99	24.82	0	25.70	24.89	24.99	24.82	0	25.70
		3	1	24.84	24.98	24.80	0	25.70	24.84	24.98	24.80	0	25.70
		3	3	24.82	24.98	24.81	0	25.70	24.82	24.98	24.81	0	25.70
	16QAM	6	0	23.80	23.93	23.84	1	24.70	23.80	23.93	23.84	1	24.70
		1	0	24.33	24.28	24.36	1	24.70	24.33	24.28	24.36	1	24.70
		1	3	24.19	24.28	24.34	1	24.70	24.19	24.28	24.34	1	24.70
		1	5	24.40	24.31	24.26	1	24.70	24.40	24.31	24.26	1	24.70
		3	0	24.04	24.08	23.94	1	24.70	24.04	24.08	23.94	1	24.70
		3	1	24.00	24.10	23.91	1	24.70	24.00	24.10	23.91	1	24.70
	64QAM	3	3	23.99	24.06	23.92	1	24.70	23.99	24.06	23.92	1	24.70
		6	0	22.95	22.98	22.72	2	23.70	22.95	22.98	22.72	2	23.70
		1	0	23.67	23.00	22.94	2	23.70	23.67	23.00	22.94	2	23.70
		1	3	23.05	23.08	23.01	2	23.70	23.05	23.08	23.01	2	23.70
		1	5	23.10	23.08	23.04	2	23.70	23.10	23.08	23.04	2	23.70
		3	0	22.86	22.89	22.77	2	23.70	22.86	22.89	22.77	2	23.70
	64QAM	3	1	22.94	22.93	22.83	2	23.70	22.94	22.93	22.83	2	23.70
		3	3	22.91	22.95	22.84	2	23.70	22.91	22.95	22.84	2	23.70
		6	0	22.66	22.68	22.65	3	22.70	22.66	22.68	22.65	3	22.70

LTE Band 12 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
					23095		MPR	Tune-up Limit		23095		MPR	Tune-up Limit	
					707.5 MHz					707.5 MHz				
10 MHz	QPSK	1	0		23.67		0	24.50		23.67		0	24.50	
		1	25		24.00		0	24.50		24.00		0	24.50	
		1	49		23.51		0	24.50		23.51		0	24.50	
		25	0		22.59		1	23.50		22.59		1	23.50	
		25	12		23.00		1	23.50		23.00		1	23.50	
		25	25		22.50		1	23.50		22.50		1	23.50	
	16QAM	50	0		23.00		1	23.50		23.00		1	23.50	
		1	0		22.87		1	23.50		22.87		1	23.50	
		1	25		22.87		1	23.50		22.87		1	23.50	
		1	49		22.77		1	23.50		22.77		1	23.50	
		25	0		21.57		2	22.50		21.57		2	22.50	
		25	12		21.57		2	22.50		21.57		2	22.50	
	64QAM	25	25		21.55		2	22.50		21.55		2	22.50	
		50	0		21.58		2	22.50		21.58		2	22.50	
		1	0		22.31		2	22.50		22.31		2	22.50	
		1	25		22.25		2	22.50		22.25		2	22.50	
		1	49		22.17		2	22.50		22.17		2	22.50	
		25	0		20.90		3	21.50		20.90		3	21.50	
		25	12		21.01		3	21.50		21.01		3	21.50	
		25	25		20.97		3	21.50		20.97		3	21.50	
		50	0		21.03		3	21.50		21.03		3	21.50	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				23035	23095	23155	MPR	Tune-up Limit	23035	23095	23155	MPR	Tune-up Limit	
														701.5 MHz
5 MHz	QPSK	1	0		24.34	24.25	24.24	0	24.50	24.34	24.25	24.24	0	24.50
		1	12		24.26	24.35	24.25	0	24.50	24.26	24.35	24.25	0	24.50
		1	24		24.33	24.35	24.29	0	24.50	24.33	24.35	24.29	0	24.50
		12	0		23.15	23.20	23.18	1	23.50	23.15	23.20	23.18	1	23.50
		12	7		23.19	23.30	23.17	1	23.50	23.19	23.30	23.17	1	23.50
		12	13		23.20	23.27	23.24	1	23.50	23.20	23.27	23.24	1	23.50
	16QAM	25	0		23.18	23.30	23.19	1	23.50	23.18	23.30	23.19	1	23.50
		1	0		23.02	22.83	22.91	1	23.50	23.02	22.83	22.91	1	23.50
		1	12		22.90	22.96	22.91	1	23.50	22.90	22.96	22.91	1	23.50
		1	24		22.99	22.91	23.02	1	23.50	22.99	22.91	23.02	1	23.50
		12	0		22.10	22.18	22.16	2	22.50	22.10	22.18	22.16	2	22.50
		12	7		22.18	22.27	22.16	2	22.50	22.18	22.27	22.16	2	22.50
	64QAM	12	13		22.16	22.23	22.23	2	22.50	22.16	22.23	22.23	2	22.50
		25	0		22.18	22.24	22.14	2	22.50	22.18	22.24	22.14	2	22.50
		1	0		22.31	22.18	22.17	2	22.50	22.31	22.18	22.17	2	22.50
		1	12		22.17	22.30	22.18	2	22.50	22.17	22.30	22.18	2	22.50
		1	24		22.31	22.27	22.31	2	22.50	22.31	22.27	22.31	2	22.50
		12	0		20.83	20.78	20.77	3	21.50	20.83	20.78	20.77	3	21.50
		12	7		20.90	20.82	20.72	3	21.50	20.90	20.82	20.72	3	21.50
		12	13		20.89	20.86	20.76	3	21.50	20.89	20.86	20.76	3	21.50
		25	0		20.86	20.87	20.74	3	21.50	20.86	20.87	20.74	3	21.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				23025	23095	23165	MPR	Tune-up Limit	23025	23095	23165	MPR	Tune-up Limit	
														700.5 MHz
3 MHz	QPSK	1	0		24.37	24.19	24.22	0	24.50	24.37	24.19	24.22	0	24.50
		1	8		24.28	24.34	24.32	0	24.50	24.28	24.34	24.32	0	24.50
		1	14		24.31	24.27	24.18	0	24.50	24.31	24.27	24.18	0	24.50
		8	0		23.19	23.20	23.03	1	23.50	23.19	23.20	23.03	1	23.50
		8	4		23.14	23.26	23.12	1	23.50	23.14	23.26	23.12	1	23.50
		8	7		23.14	23.25	23.11	1	23.50	23.14	23.25	23.11	1	23.50
	16QAM	15	0		23.15	23.26	23.20	1	23.50	23.15	23.26	23.20	1	23.50
		1	0		22.87	22.85	22.84	1	23.50	22.87	22.85	22.84	1	23.50
		1	8		22.84	23.03	22.94	1	23.50	22.84	23.03	22.94	1	23.50
		1	14		22.84	22.95	22.81	1	23.50	22.84	22.95	22.81	1	23.50
		8	0		22.26	22.19	22.10	2	22.50	22.26	22.19	22.10	2	22.50
		8	4		22.17	22.25	22.16	2	22.50	22.17	22.25	22.16	2	22.50
	64QAM	8	7		22.18	22.19	22.18	2	22.50	22.18	22.19	22.18	2	22.50
		15	0		22.12	22.22	22.18	2	22.50	22.12	22.22	22.18	2	22.50
		1	0		22.30	22.08	21.99	2	22.50	22.30	22.08	21.99	2	22.50
		1	8		22.13	22.23	22.13	2	22.50	22.13	22.23	22.13	2	22.50
		1	14		22.19	22.11	22.13	2	22.50	22.19	22.11	22.13	2	22.50
		8	0		20.89	20.76	20.73	3	21.50	20.89	20.76	20.73	3	21.50
		8	4		20.87	20.80	20.75	3	21.50	20.87	20.80	20.75	3	21.50
		8	7		20.88	20.82	20.75	3	21.50	20.88	20.82	20.75	3	21.50
		15	0		20.83	20.80	20.74	3	21.50	20.83	20.80	20.74	3	21.50

LTE Band 12 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23017	23095	23173	MPR	Tune-up Limit	23017	23095	23173	MPR	Tune-up Limit
				699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	24.43	24.48	24.31	0	24.50	24.43	24.48	24.31	0	24.50
		1	3	24.36	24.42	24.22	0	24.50	24.36	24.42	24.22	0	24.50
		1	5	24.34	24.41	24.32	0	24.50	24.34	24.41	24.32	0	24.50
		3	0	24.25	24.25	24.21	0	24.50	24.25	24.25	24.21	0	24.50
		3	1	24.23	24.22	24.22	0	24.50	24.23	24.22	24.22	0	24.50
		3	3	24.18	24.22	24.17	0	24.50	24.18	24.22	24.17	0	24.50
	16QAM	6	0	23.24	23.16	23.14	1	23.50	23.24	23.16	23.14	1	23.50
		1	0	23.01	22.87	22.73	1	23.50	23.01	22.87	22.73	1	23.50
		1	3	22.96	22.96	22.70	1	23.50	22.96	22.96	22.70	1	23.50
		1	5	22.93	22.94	22.75	1	23.50	22.93	22.94	22.75	1	23.50
		3	0	22.60	22.71	22.50	1	23.50	22.60	22.71	22.50	1	23.50
		3	1	23.34	23.47	23.20	1	23.50	23.34	23.47	23.20	1	23.50
	64QAM	3	3	23.34	23.47	23.19	1	23.50	23.34	23.47	23.19	1	23.50
		6	0	22.15	22.35	22.11	2	22.50	22.15	22.35	22.11	2	22.50
		1	0	22.39	22.34	22.09	2	22.50	22.39	22.34	22.09	2	22.50
		1	3	22.42	22.32	22.04	2	22.50	22.42	22.32	22.04	2	22.50
		1	5	22.39	22.21	22.10	2	22.50	22.39	22.21	22.10	2	22.50
		3	0	22.10	21.96	21.85	2	22.50	22.10	21.96	21.85	2	22.50
	64QAM	3	1	22.08	21.96	21.85	2	22.50	22.08	21.96	21.85	2	22.50
		3	3	22.08	21.97	21.85	2	22.50	22.08	21.97	21.85	2	22.50
		6	0	20.97	20.87	20.73	3	21.50	20.97	20.87	20.73	3	21.50

LTE Band 13 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23230		MPR	Tune-up Limit		23230		MPR	Tune-up Limit
					782 MHz					782 MHz			
10 MHz	QPSK	1	0		25.20		0	25.70		25.20		0	25.70
		1	25		25.30		0	25.70		25.30		0	25.70
		1	49		25.17		0	25.70		25.17		0	25.70
		25	0		24.00		1	24.70		24.00		1	24.70
		25	12		24.30		1	24.70		24.30		1	24.70
		25	25		24.13		1	24.70		24.13		1	24.70
		50	0		24.22		1	24.70		24.22		1	24.70
	16QAM	1	0		24.48		1	24.70		24.48		1	24.70
		1	25		24.49		1	24.70		24.49		1	24.70
		1	49		24.50		1	24.70		24.50		1	24.70
		25	0		22.98		2	23.70		22.98		2	23.70
		25	12		23.19		2	23.70		23.19		2	23.70
		25	25		23.13		2	23.70		23.13		2	23.70
	64QAM	50	0		23.18		2	23.70		23.18		2	23.70
		1	0		23.47		2	23.70		23.47		2	23.70
		1	25		23.35		2	23.70		23.35		2	23.70
		1	49		23.13		2	23.70		23.13		2	23.70
		25	0		21.89		3	22.70		21.89		3	22.70
		25	12		22.02		3	22.70		22.02		3	22.70
		25	25		21.98		3	22.70		21.98		3	22.70
		50	0		21.97		3	22.70		21.97		3	22.70
BW (MHz)		Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
						23230		MPR	Tune-up Limit		23230		MPR
	782 MHz					782 MHz							
5 MHz	QPSK	1	0		24.88		0	25.70		24.88		0	25.70
		1	12		25.08		0	25.70		25.08		0	25.70
		1	24		25.08		0	25.70		25.08		0	25.70
		12	0		23.91		1	24.70		23.91		1	24.70
		12	7		24.10		1	24.70		24.10		1	24.70
		12	13		24.12		1	24.70		24.12		1	24.70
		25	0		24.10		1	24.70		24.10		1	24.70
	16QAM	1	0		24.24		1	24.70		24.24		1	24.70
		1	12		24.57		1	24.70		24.57		1	24.70
		1	24		24.50		1	24.70		24.50		1	24.70
		12	0		22.98		2	23.70		22.98		2	23.70
		12	7		23.10		2	23.70		23.10		2	23.70
		12	13		23.12		2	23.70		23.12		2	23.70
	64QAM	25	0		23.03		2	23.70		23.03		2	23.70
		1	0		23.22		2	23.70		23.22		2	23.70
		1	12		23.27		2	23.70		23.27		2	23.70
		1	24		23.22		2	23.70		23.22		2	23.70
		12	0		21.86		3	22.70		21.86		3	22.70
		12	7		21.88		3	22.70		21.88		3	22.70
		12	13		21.81		3	22.70		21.81		3	22.70
		25	0		21.88		3	22.70		21.88		3	22.70

LTE Band 13 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23230	782 MHz	MPR	Tune-up Limit	23230	782 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	23.97		0	24.50	23.97		0	24.50
		1	25	24.10		0	24.50	24.10		0	24.50
		1	49	23.75		0	24.50	23.75		0	24.50
		25	0	22.70		1	23.50	22.70		1	23.50
		25	12	23.00		1	23.50	23.00		1	23.50
		25	25	22.70		1	23.50	22.70		1	23.50
		50	0	23.00		1	23.50	23.00		1	23.50
	16QAM	1	0	23.34		1	23.50	23.34		1	23.50
		1	25	23.10		1	23.50	23.10		1	23.50
		1	49	23.20		1	23.50	23.20		1	23.50
		25	0	21.73		2	22.50	21.73		2	22.50
		25	12	21.80		2	22.50	21.80		2	22.50
		25	25	21.77		2	22.50	21.77		2	22.50
	64QAM	50	0	21.80		2	22.50	21.80		2	22.50
		1	0	22.25		2	22.50	22.25		2	22.50
		1	25	22.26		2	22.50	22.26		2	22.50
		1	49	22.36		2	22.50	22.36		2	22.50
		25	0	20.99		3	21.50	20.99		3	21.50
		25	12	21.15		3	21.50	21.15		3	21.50
		25	25	21.10		3	21.50	21.10		3	21.50
		50	0	21.16		3	21.50	21.16		3	21.50
5 MHz	QPSK	1	0	23.72		0	24.50	23.72		0	24.50
		1	12	23.74		0	24.50	23.74		0	24.50
		1	24	23.67		0	24.50	23.67		0	24.50
		12	0	22.59		1	23.50	22.59		1	23.50
		12	7	22.72		1	23.50	22.72		1	23.50
		12	13	22.64		1	23.50	22.64		1	23.50
		25	0	22.74		1	23.50	22.74		1	23.50
	16QAM	1	0	23.08		1	23.50	23.08		1	23.50
		1	12	23.12		1	23.50	23.12		1	23.50
		1	24	23.16		1	23.50	23.16		1	23.50
		12	0	21.65		2	22.50	21.65		2	22.50
		12	7	21.71		2	22.50	21.71		2	22.50
		12	13	21.66		2	22.50	21.66		2	22.50
	64QAM	25	0	21.67		2	22.50	21.67		2	22.50
		1	0	22.36		2	22.50	22.36		2	22.50
		1	12	22.40		2	22.50	22.40		2	22.50
		1	24	22.45		2	22.50	22.45		2	22.50
		12	0	20.89		3	21.50	20.89		3	21.50
		12	7	20.98		3	21.50	20.98		3	21.50
		12	13	20.93		3	21.50	20.93		3	21.50
		25	0	21.03		3	21.50	21.03		3	21.50

LTE Band 25 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	25.26	25.29	25.40	0	25.70	21.01	20.89	21.04	0	21.25
		1	49	25.35	25.45	25.50	0	25.70	21.25	21.25	21.20	0	21.25
		1	99	25.21	25.38	24.74	0	25.70	20.99	21.00	21.10	0	21.25
		50	0	24.32	24.40	24.17	1	24.70	21.01	20.75	20.96	0	21.25
		50	24	24.40	24.42	24.35	1	24.70	21.20	21.22	21.25	0	21.25
		50	50	24.09	24.32	24.07	1	24.70	20.85	20.75	20.80	0	21.25
		100	0	24.13	24.35	24.18	1	24.70	20.45	21.25	20.40	0	21.25
	16QAM	1	0	24.61	24.57	24.57	1	24.70	20.57	20.54	20.52	0	21.25
		1	49	24.58	24.68	24.63	1	24.70	20.56	20.40	20.53	0	21.25
		1	99	24.50	24.64	24.37	1	24.70	20.62	20.54	20.54	0	21.25
		50	0	23.43	23.47	23.33	2	23.70	20.53	20.48	20.51	0	21.25
		50	24	23.26	23.41	23.25	2	23.70	20.40	20.54	20.46	0	21.25
		50	50	23.18	23.36	23.19	2	23.70	20.37	20.54	20.41	0	21.25
		100	0	23.24	23.41	23.22	2	23.70	20.38	20.48	20.47	0	21.25
	64QAM	1	0	23.55	23.67	23.67	2	23.70	20.97	21.10	21.23	0	21.25
		1	49	23.66	23.67	23.55	2	23.70	21.17	21.22	21.22	0	21.25
		1	99	23.63	23.56	23.61	2	23.70	21.04	21.18	21.07	0	21.25
		50	0	22.53	22.47	22.24	3	22.70	21.04	21.01	21.05	0	21.25
		50	24	22.58	22.39	22.33	3	22.70	21.11	21.07	21.12	0	21.25
		50	50	22.57	22.33	22.32	3	22.70	21.07	21.05	21.01	0	21.25
		100	0	22.56	22.36	22.34	3	22.70	21.08	21.05	21.13	0	21.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	25.25	25.32	25.34	0	25.70	20.72	20.91	20.85	0	21.25
		1	37	25.34	25.40	25.14	0	25.70	20.79	20.90	20.85	0	21.25
		1	74	25.16	25.37	24.89	0	25.70	20.64	20.91	20.82	0	21.25
		36	0	24.33	24.44	23.95	1	24.70	20.63	20.60	20.58	0	21.25
		36	20	24.30	24.43	24.10	1	24.70	20.62	20.55	20.65	0	21.25
		36	39	24.20	24.37	24.05	1	24.70	20.52	20.56	20.65	0	21.25
		75	0	24.30	24.40	24.06	1	24.70	20.63	20.59	20.61	0	21.25
	16QAM	1	0	24.59	24.56	24.60	1	24.70	20.47	20.66	20.65	0	21.25
		1	37	24.65	24.60	24.55	1	24.70	20.55	20.68	20.61	0	21.25
		1	74	24.38	24.61	24.22	1	24.70	20.39	20.68	20.59	0	21.25
		36	0	23.39	23.48	23.20	2	23.70	20.34	20.54	20.27	0	21.25
		36	20	23.33	23.43	23.32	2	23.70	20.36	20.54	20.32	0	21.25
		36	39	23.22	23.38	23.22	2	23.70	20.28	20.51	20.32	0	21.25
		75	0	23.33	23.39	23.24	2	23.70	20.35	20.51	20.30	0	21.25
	64QAM	1	0	23.69	23.68	23.48	2	23.70	21.11	21.09	21.13	0	21.25
		1	37	23.62	23.60	23.65	2	23.70	21.24	21.19	21.24	0	21.25
		1	74	23.69	23.59	23.45	2	23.70	21.23	21.23	21.04	0	21.25
		36	0	22.46	22.42	22.36	3	22.70	20.95	21.01	21.05	0	21.25
		36	20	22.54	22.43	22.42	3	22.70	21.09	21.11	21.07	0	21.25
		36	39	22.52	22.30	22.39	3	22.70	21.07	21.01	20.96	0	21.25
		75	0	22.47	22.30	22.34	3	22.70	21.08	21.02	21.01	0	21.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	25.22	25.37	25.24	0	25.70	20.79	20.97	20.81	0	21.25
		1	25	25.30	25.35	25.14	0	25.70	20.86	20.91	20.77	0	21.25
		1	49	25.28	25.35	25.05	0	25.70	20.84	20.95	20.82	0	21.25
		25	0	24.21	24.37	24.14	1	24.70	20.42	20.53	20.43	0	21.25
		25	12	24.31	24.38	24.11	1	24.70	20.50	20.56	20.35	0	21.25
		25	25	24.30	24.40	24.20	1	24.70	20.50	20.53	20.43	0	21.25
		50	0	24.32	24.41	24.18	1	24.70	20.49	20.52	20.38	0	21.25
	16QAM	1	0	24.51	24.62	24.70	1	24.70	20.47	20.54	20.55	0	21.25
		1	25	24.58	24.70	24.49	1	24.70	20.49	20.96	20.52	0	21.25
		1	49	24.56	24.63	24.46	1	24.70	20.36	20.92	20.80	0	21.25
		25	0	23.26	23.40	23.26	2	23.70	20.32	20.38	20.37	0	21.25
		25	12	23.34	23.45	23.17	2	23.70	20.40	20.39	20.29	0	21.25
		25	25	23.40	23.48	23.22	2	23.70	20.44	20.42	20.36	0	21.25
		50	0	23.40	23.47	23.18	2	23.70	20.44	20.41	20.29	0	21.25
	64QAM	1	0	23.51	23.65	23.70	2	23.70	21.04	21.18	21.24	0	21.25
		1	25	23.66	23.69	23.58	2	23.70	21.13	21.25	21.23	0	21.25
		1	49	23.69	23.53	23.57	2	23.70	21.19	21.25	21.11	0	21.25
		25	0	22.40	22.45	22.39	3	22.70	20.93	21.11	21.01	0	21.25
		25	12	22.45	22.44	22.32	3	22.70	21.02	21.16	20.91	0	21.25
		25	25	22.58	22.39	22.25	3	22.70	21.12	21.14	20.85	0	21.25
		50	0	22.51	22.37	22.32	3	22.70	21.03	21.10	20.90	0	21.25

LTE Band 25 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	25.12	25.38	25.11	0	25.70	20.71	20.93	20.82	0	21.25
		1	12	25.14	25.34	25.08	0	25.70	20.69	20.92	20.79	0	21.25
		1	24	25.27	25.37	25.01	0	25.70	20.80	20.99	20.81	0	21.25
		12	0	24.05	24.25	24.02	1	24.70	20.63	20.62	20.74	0	21.25
		12	7	24.04	24.25	24.06	1	24.70	20.62	20.62	20.73	0	21.25
		12	13	24.13	24.29	24.05	1	24.70	20.68	20.65	20.69	0	21.25
		25	0	24.05	24.30	24.08	1	24.70	20.63	20.64	20.73	0	21.25
	16QAM	1	0	24.49	24.69	24.58	1	24.70	20.52	20.66	20.75	0	21.25
		1	12	24.48	24.67	24.51	1	24.70	20.60	20.67	20.74	0	21.25
		1	24	24.60	24.63	24.50	1	24.70	20.73	20.70	20.65	0	21.25
		12	0	23.10	23.34	23.04	2	23.70	20.46	20.52	20.54	0	21.25
		12	7	23.08	23.33	23.09	2	23.70	20.46	20.52	20.54	0	21.25
		12	13	23.14	23.33	23.06	2	23.70	20.51	20.53	20.51	0	21.25
		25	0	23.05	23.28	23.02	2	23.70	20.45	20.50	20.52	0	21.25
	64QAM	1	0	23.57	23.61	23.60	2	23.70	21.04	21.16	21.25	0	21.25
		1	12	23.63	23.54	23.52	2	23.70	21.00	21.11	21.13	0	21.25
		1	24	23.67	23.57	23.60	2	23.70	21.11	21.17	21.23	0	21.25
		12	0	22.22	22.23	22.14	3	22.70	20.71	20.86	20.74	0	21.25
		12	7	22.22	22.22	22.14	3	22.70	20.72	20.84	20.69	0	21.25
		12	13	22.31	22.17	22.11	3	22.70	20.82	20.81	20.64	0	21.25
		25	0	22.20	22.17	22.14	3	22.70	20.70	20.80	20.69	0	21.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	25.07	25.18	25.06	0	25.70	20.67	20.75	20.74	0	21.25
		1	8	25.09	25.26	25.10	0	25.70	20.70	20.81	20.76	0	21.25
		1	14	25.09	25.17	24.98	0	25.70	20.65	20.78	20.71	0	21.25
		8	0	23.96	24.18	23.90	1	24.70	20.59	20.55	20.51	0	21.25
		8	4	23.96	24.17	23.94	1	24.70	20.57	20.54	20.58	0	21.25
		8	7	24.02	24.18	23.94	1	24.70	20.58	20.55	20.59	0	21.25
		15	0	24.01	24.17	24.02	1	24.70	20.59	20.59	20.60	0	21.25
	16QAM	1	0	24.35	24.59	24.36	1	24.70	20.46	20.55	20.59	0	21.25
		1	8	24.46	24.63	24.47	1	24.70	20.49	20.56	20.58	0	21.25
		1	14	24.45	24.60	24.26	1	24.70	20.44	20.55	20.57	0	21.25
		8	0	23.00	23.16	22.99	2	23.70	20.34	20.33	20.34	0	21.25
		8	4	22.97	23.13	22.97	2	23.70	20.34	20.31	20.31	0	21.25
		8	7	22.97	23.14	22.94	2	23.70	20.34	20.31	20.30	0	21.25
		15	0	22.95	23.17	22.92	2	23.70	20.31	20.31	20.34	0	21.25
	64QAM	1	0	23.39	23.40	23.26	2	23.70	20.94	21.06	20.83	0	21.25
		1	8	23.55	23.43	23.29	2	23.70	20.84	21.02	20.92	0	21.25
		1	14	23.43	23.46	23.36	2	23.70	20.87	21.00	20.94	0	21.25
		8	0	22.06	22.13	22.02	3	22.70	20.57	20.73	20.52	0	21.25
		8	4	22.12	22.13	22.01	3	22.70	20.55	20.72	20.50	0	21.25
		8	7	22.11	22.06	22.02	3	22.70	20.57	20.67	20.57	0	21.25
		15	0	22.09	21.99	21.95	3	22.70	20.49	20.67	20.47	0	21.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	25.16	25.27	25.04	0	25.70	20.71	20.82	20.69	0	21.25
		1	3	25.11	25.25	25.08	0	25.70	20.69	20.81	20.67	0	21.25
		1	5	25.15	25.27	24.92	0	25.70	20.72	20.86	20.71	0	21.25
		3	0	24.99	25.15	24.79	0	25.70	20.57	20.69	20.60	0	21.25
		3	1	25.00	25.15	24.76	0	25.70	20.56	20.69	20.60	0	21.25
		3	3	25.00	25.15	24.72	0	25.70	20.57	20.68	20.60	0	21.25
		6	0	23.98	24.08	23.81	1	24.70	20.74	20.71	20.73	0	21.25
	16QAM	1	0	24.44	24.60	24.19	1	24.70	20.68	20.71	20.70	0	21.25
		1	3	24.53	24.56	24.14	1	24.70	20.61	20.69	20.68	0	21.25
		1	5	24.56	24.61	24.24	1	24.70	20.72	20.68	20.71	0	21.25
		3	0	24.19	24.35	23.94	1	24.70	20.48	20.62	20.48	0	21.25
		3	1	24.20	24.33	23.89	1	24.70	20.49	20.65	20.42	0	21.25
		3	3	24.19	24.32	23.89	1	24.70	20.48	20.66	20.45	0	21.25
		6	0	23.00	23.19	22.97	2	23.70	20.29	20.26	20.29	0	21.25
	64QAM	1	0	23.46	23.67	23.34	2	23.70	20.97	21.23	20.90	0	21.25
		1	3	23.43	23.57	23.30	2	23.70	20.89	21.24	20.95	0	21.25
		1	5	23.53	23.57	23.44	2	23.70	20.92	21.23	20.95	0	21.25
		3	0	23.28	23.32	23.01	2	23.70	20.74	20.98	20.65	0	21.25
		3	1	23.28	23.30	23.06	2	23.70	20.73	20.97	20.63	0	21.25
		3	3	23.26	23.30	23.01	2	23.70	20.72	20.90	20.66	0	21.25
		6	0	22.15	22.06	21.96	3	22.70	20.67	20.69	20.57	0	21.25

LTE Band 25 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	21.48	21.47	21.29	0	22.00	18.80	19.09	18.93	0	19.25
		1	49	21.70	21.70	21.70	0	22.00	19.20	19.20	19.10	0	19.25
		1	99	21.53	21.57	21.26	0	22.00	19.10	18.89	18.98	0	19.25
		50	0	21.45	21.43	21.33	0	22.00	18.82	18.97	18.69	0	19.25
		50	24	21.60	21.60	21.60	0	22.00	19.15	19.00	19.11	0	19.25
		50	50	21.44	21.52	21.23	0	22.00	19.04	18.87	18.89	0	19.25
	16QAM	100	0	21.47	21.60	21.38	0	22.00	18.90	18.93	18.77	0	19.25
		1	0	21.84	21.99	21.86	0	22.00	18.91	19.13	19.11	0	19.25
		1	49	21.83	21.95	21.68	0	22.00	18.98	19.05	18.90	0	19.25
		1	99	21.92	21.95	21.60	0	22.00	19.24	19.00	19.23	0	19.25
		50	0	21.04	21.01	20.87	0.5	21.50	18.90	19.04	18.76	0	19.25
		50	24	21.00	21.03	20.89	0.5	21.50	18.98	19.06	18.80	0	19.25
	64QAM	50	50	21.00	21.03	20.79	0.5	21.50	19.08	18.96	18.94	0	19.25
		100	0	21.00	21.02	20.88	0.5	21.50	18.99	19.01	18.82	0	19.25
		1	0	20.82	20.70	20.64	0.5	21.50	19.10	19.25	19.23	0	19.25
		1	49	20.54	20.61	20.81	0.5	21.50	19.18	19.24	19.08	0	19.25
		1	99	20.56	20.73	20.50	0.5	21.50	19.25	19.19	19.25	0	19.25
		50	0	19.67	19.72	19.64	1.5	20.50	18.95	18.99	18.69	0	19.25
		50	24	19.79	19.72	19.90	1.5	20.50	19.03	18.96	18.72	0	19.25
		50	50	19.88	19.62	19.62	1.5	20.50	19.13	18.87	18.83	0	19.25
		100	0	19.78	19.73	19.84	1.5	20.50	19.07	18.94	18.73	0	19.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	21.84	21.98	21.61	0	22.00	18.90	19.03	18.66	0	19.25
		1	37	21.88	21.90	21.81	0	22.00	18.94	18.95	18.75	0	19.25
		1	74	21.99	21.77	21.81	0	22.00	19.05	18.84	18.91	0	19.25
		36	0	21.83	21.90	21.66	0	22.00	18.88	18.99	18.65	0	19.25
		36	20	21.84	21.94	21.78	0	22.00	18.93	19.07	18.73	0	19.25
		36	39	21.92	21.83	21.77	0	22.00	18.97	18.92	18.80	0	19.25
		75	0	21.84	21.89	21.72	0	22.00	18.93	18.99	18.75	0	19.25
	16QAM	1	0	21.68	21.93	21.56	0	22.00	18.98	19.18	18.74	0	19.25
		1	37	21.74	21.86	21.64	0	22.00	19.02	19.06	18.78	0	19.25
		1	74	21.91	21.58	21.69	0	22.00	19.13	18.97	18.85	0	19.25
		36	0	20.58	20.66	21.08	0.5	21.50	18.94	19.06	18.66	0	19.25
		36	20	20.65	20.69	20.50	0.5	21.50	19.00	19.14	18.78	0	19.25
		36	39	20.70	20.59	20.55	0.5	21.50	19.04	18.94	18.82	0	19.25
		75	0	20.62	20.62	21.18	0.5	21.50	18.98	19.06	18.77	0	19.25
	64QAM	1	0	21.06	21.37	20.87	0.5	21.50	19.24	19.25	18.90	0	19.25
		1	37	21.06	21.23	21.01	0.5	21.50	19.25	19.23	19.02	0	19.25
		1	74	21.19	21.03	20.97	0.5	21.50	19.22	19.11	19.11	0	19.25
		36	0	19.68	19.79	19.71	1.5	20.50	18.97	19.05	18.70	0	19.25
		36	20	19.75	19.89	19.59	1.5	20.50	19.02	19.10	18.80	0	19.25
		36	39	19.87	19.73	19.64	1.5	20.50	19.09	18.93	18.86	0	19.25
		75	0	19.75	19.74	19.53	1.5	20.50	18.99	18.95	18.76	0	19.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	21.84	21.92	21.78	0	22.00	18.86	18.94	18.76	0	19.25
		1	25	21.84	21.96	21.82	0	22.00	18.88	18.97	18.91	0	19.25
		1	49	21.93	21.86	21.86	0	22.00	18.95	18.91	18.96	0	19.25
		25	0	21.40	21.60	21.35	0	22.00	18.28	18.51	18.26	0	19.25
		25	12	21.45	21.59	21.39	0	22.00	18.33	18.50	18.33	0	19.25
		25	25	21.50	21.56	21.48	0	22.00	18.39	18.47	18.41	0	19.25
	16QAM	50	0	21.45	21.57	21.38	0	22.00	18.35	18.46	18.38	0	19.25
		1	0	21.72	21.69	21.78	0	22.00	18.76	18.88	18.56	0	19.25
		1	25	21.78	21.76	21.79	0	22.00	18.76	18.91	18.65	0	19.25
		1	49	21.86	21.84	21.89	0	22.00	18.82	18.81	18.75	0	19.25
		25	0	20.57	20.65	20.69	0.5	21.50	18.36	18.58	18.35	0	19.25
		25	12	20.59	20.70	20.53	0.5	21.50	18.40	18.54	18.41	0	19.25
		25	25	20.67	20.66	20.58	0.5	21.50	18.47	18.47	18.46	0	19.25
		50	0	20.57	20.66	20.55	0.5	21.50	18.39	18.52	18.41	0	19.25
	64QAM	1	0	21.04	21.15	20.94	0.5	21.50	19.20	19.25	18.95	0	19.25
		1	25	21.06	21.17	21.05	0.5	21.50	19.13	19.22	19.09	0	19.25
		1	49	21.15	21.00	21.08	0.5	21.50	19.20	19.17	19.21	0	19.25
		25	0	19.65	19.82	19.60	1.5	20.50	18.96	19.09	18.82	0	19.25
		25	12	19.67	19.80	19.62	1.5	20.50	18.96	19.06	18.86	0	19.25
		25	25	19.75	19.73	19.66	1.5	20.50	19.03	19.01	18.94	0	19.25
		50	0	19.70	19.72	19.61	1.5	20.50	18.95	19.00	18.87	0	19.25

LTE Band 25 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	21.80	21.95	21.78	0	22.00	18.74	19.06	18.79	0	19.25
		1	12	21.76	21.89	21.81	0	22.00	18.70	18.95	18.87	0	19.25
		1	24	21.83	21.89	21.75	0	22.00	18.79	18.99	18.83	0	19.25
		12	0	21.63	21.80	21.61	0	22.00	18.63	18.95	18.70	0	19.25
		12	7	21.62	21.78	21.67	0	22.00	18.62	18.94	18.78	0	19.25
		12	13	21.69	21.74	21.60	0	22.00	18.68	18.88	18.75	0	19.25
	16QAM	25	0	21.62	21.73	21.67	0	22.00	18.62	18.88	18.79	0	19.25
		1	0	21.63	21.65	21.61	0	22.00	19.06	19.18	19.03	0	19.25
		1	12	21.58	21.64	21.64	0	22.00	18.99	19.09	19.06	0	19.25
		1	24	21.69	21.65	21.67	0	22.00	19.13	19.11	19.03	0	19.25
		12	0	20.80	20.89	20.79	0.5	21.50	18.71	18.91	18.72	0	19.25
		12	7	20.80	20.94	20.84	0.5	21.50	18.68	18.95	18.78	0	19.25
	64QAM	12	13	20.85	20.93	20.82	0.5	21.50	18.74	18.88	18.73	0	19.25
		25	0	20.80	20.92	20.82	0.5	21.50	18.62	18.86	18.79	0	19.25
		1	0	20.76	20.95	20.80	0.5	21.50	19.25	19.25	19.25	0	19.25
		1	12	20.73	20.82	20.75	0.5	21.50	19.16	19.20	19.25	0	19.25
		1	24	20.80	20.82	20.72	0.5	21.50	19.25	19.25	19.22	0	19.25
		12	0	19.68	19.86	19.61	1.5	20.50	18.85	18.93	18.69	0	19.25
3 MHz	QPSK	12	7	19.66	19.86	19.67	1.5	20.50	18.82	18.93	18.76	0	19.25
		12	13	19.74	19.79	19.59	1.5	20.50	18.85	18.81	18.72	0	19.25
		25	0	19.64	19.81	19.68	1.5	20.50	18.79	18.83	18.77	0	19.25
	16QAM	1	0	21.71	21.81	21.82	0	22.00	18.71	18.87	18.85	0	19.25
		1	8	21.74	21.79	21.79	0	22.00	18.73	18.85	18.83	0	19.25
		1	14	21.68	21.74	21.64	0	22.00	18.66	18.81	18.70	0	19.25
		8	0	21.81	21.64	21.55	0	22.00	18.53	18.80	18.72	0	19.25
		8	4	21.71	21.64	21.70	0	22.00	18.51	18.79	18.66	0	19.25
		8	7	21.76	21.60	21.61	0	22.00	18.52	18.73	18.66	0	19.25
	64QAM	15	0	21.81	21.60	21.52	0	22.00	18.56	18.73	18.66	0	19.25
		1	0	21.86	21.96	21.81	0	22.00	18.93	19.07	18.92	0	19.25
		1	8	21.90	21.96	21.87	0	22.00	18.92	19.08	18.87	0	19.25
		1	14	21.85	21.93	21.81	0	22.00	18.84	18.96	18.80	0	19.25
		8	0	20.60	20.76	20.67	0.5	21.50	18.57	18.80	18.75	0	19.25
		8	4	20.59	20.73	20.60	0.5	21.50	18.57	18.76	18.67	0	19.25
1.4 MHz	QPSK	8	7	20.59	20.68	20.59	0.5	21.50	18.57	18.73	18.67	0	19.25
		15	0	20.56	20.65	20.57	0.5	21.50	18.54	18.70	18.63	0	19.25
	16QAM	1	0	21.00	21.11	20.95	0.5	21.50	19.06	19.18	19.00	0	19.25
		1	8	21.00	21.09	20.96	0.5	21.50	19.02	19.05	19.07	0	19.25
		1	14	20.95	21.13	20.82	0.5	21.50	18.95	19.06	18.87	0	19.25
		8	0	19.67	19.85	19.67	1.5	20.50	18.69	18.83	18.63	0	19.25
	64QAM	8	4	19.65	19.84	19.58	1.5	20.50	18.64	18.82	18.58	0	19.25
		8	7	19.64	19.79	19.58	1.5	20.50	18.67	18.74	18.60	0	19.25
		15	0	19.63	19.71	19.53	1.5	20.50	18.62	18.69	18.51	0	19.25
1.4 MHz	QPSK	1	0	21.77	21.90	21.78	0	22.00	18.76	18.95	18.83	0	19.25
		1	3	21.72	21.89	21.77	0	22.00	18.71	18.90	18.81	0	19.25
		1	5	21.77	21.86	21.73	0	22.00	18.72	18.86	18.76	0	19.25
		3	0	21.61	21.77	21.60	0	22.00	18.64	18.77	18.66	0	19.25
		3	1	21.60	21.76	21.60	0	22.00	18.63	18.75	18.66	0	19.25
		3	3	21.59	21.70	21.61	0	22.00	18.63	18.70	18.67	0	19.25
	16QAM	6	0	21.64	21.79	21.71	0	22.00	18.56	18.63	18.65	0	19.25
		1	0	21.70	21.80	21.80	0	22.00	18.98	19.16	19.22	0	19.25
		1	3	21.78	21.78	21.77	0	22.00	18.95	19.20	19.19	0	19.25
		1	5	21.72	21.76	21.78	0	22.00	18.94	19.21	19.19	0	19.25
		3	0	21.88	21.99	21.89	0	22.00	18.73	18.94	18.81	0	19.25
		3	1	21.86	21.99	21.89	0	22.00	18.72	18.95	18.83	0	19.25
	64QAM	3	3	21.84	21.96	21.84	0	22.00	18.72	18.84	18.85	0	19.25
		6	0	20.94	20.90	20.87	0.5	21.50	18.61	18.76	18.62	0	19.25
		1	0	21.31	21.42	21.17	0.5	21.50	19.07	19.25	19.00	0	19.25
		1	3	21.45	21.45	21.09	0.5	21.50	19.16	19.23	18.99	0	19.25
		1	5	21.46	21.33	21.21	0.5	21.50	19.18	19.21	19.20	0	19.25
		3	0	21.10	21.18	20.98	0.5	21.50	18.84	19.02	18.86	0	19.25
1.4 MHz	QPSK	3	1	21.09	21.17	20.99	0.5	21.50	18.83	19.01	18.87	0	19.25
		3	3	21.09	21.10	20.97	0.5	21.50	18.84	18.94	18.87	0	19.25
		6	0	19.75	19.57	19.84	1.5	20.50	18.75	18.76	18.70	0	19.25

LTE Band 25 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	24.61	24.64	24.58	0	25.00	20.22	20.34	20.15	0	20.50
		1	49	24.96	25.00	24.85	0	25.00	20.50	20.40	20.45	0	20.50
		1	99	24.58	24.97	24.89	0	25.00	20.30	20.16	20.12	0	20.50
		50	0	23.90	23.53	23.80	1	24.00	20.31	20.14	20.09	0	20.50
		50	24	23.92	24.00	23.84	1	24.00	20.35	20.50	20.48	0	20.50
		50	50	23.52	23.61	23.76	1	24.00	20.27	19.97	20.12	0	20.50
		100	0	23.91	24.00	23.89	1	24.00	20.21	20.38	20.16	0	20.50
	16QAM	1	0	23.58	23.96	23.89	1	24.00	20.40	20.42	20.37	0	20.50
		1	49	23.86	23.79	23.72	1	24.00	20.36	20.24	20.36	0	20.50
		1	99	23.61	23.76	23.77	1	24.00	20.42	20.27	20.34	0	20.50
		50	0	22.99	22.58	22.91	2	23.00	20.36	20.21	20.19	0	20.50
		50	24	22.93	22.53	22.88	2	23.00	20.29	20.18	20.20	0	20.50
		50	50	22.56	22.61	22.79	2	23.00	20.32	20.03	20.16	0	20.50
		100	0	22.94	22.51	22.88	2	23.00	20.27	20.15	20.20	0	20.50
	64QAM	1	0	22.88	22.72	22.85	2	23.00	20.27	20.38	20.32	0	20.50
		1	49	22.70	22.52	22.65	2	23.00	20.00	20.27	20.11	0	20.50
		1	99	22.90	22.51	22.69	2	23.00	20.21	20.39	20.33	0	20.50
		50	0	21.64	21.74	21.54	3	22.00	20.33	20.41	20.27	0	20.50
		50	24	21.56	21.76	21.52	3	22.00	20.26	20.37	20.22	0	20.50
		50	50	21.71	21.85	21.44	3	22.00	20.34	20.44	20.12	0	20.50
		100	0	21.53	21.74	21.52	3	22.00	20.17	20.34	20.22	0	20.50
15 MHz	QPSK	1	0	24.56	24.54	24.88	0	25.00	20.10	20.22	20.24	0	20.50
		1	37	24.83	24.87	24.91	0	25.00	20.18	20.11	20.30	0	20.50
		1	74	24.98	24.83	24.58	0	25.00	20.01	20.09	20.27	0	20.50
		36	0	24.00	23.91	23.73	1	24.00	20.10	20.13	20.35	0	20.50
		36	20	23.83	23.95	23.88	1	24.00	20.16	20.11	20.27	0	20.50
		36	39	23.86	23.55	23.79	1	24.00	20.09	19.97	20.24	0	20.50
		75	0	23.80	23.92	23.73	1	24.00	20.20	20.09	20.26	0	20.50
	16QAM	1	0	23.91	23.92	23.81	1	24.00	20.22	20.36	20.41	0	20.50
		1	37	23.59	23.75	23.73	1	24.00	20.34	20.29	20.46	0	20.50
		1	74	23.76	23.65	23.59	1	24.00	20.18	20.30	20.49	0	20.50
		36	0	22.51	22.52	22.87	2	23.00	20.19	20.18	20.41	0	20.50
		36	20	22.83	22.52	22.91	2	23.00	20.26	20.18	20.35	0	20.50
		36	39	22.90	22.62	22.88	2	23.00	20.19	20.02	20.31	0	20.50
		75	0	22.79	22.99	22.90	2	23.00	20.24	20.16	20.31	0	20.50
	64QAM	1	0	22.79	22.80	22.62	2	23.00	20.49	20.48	20.25	0	20.50
		1	37	22.56	22.69	22.50	2	23.00	20.24	20.40	20.21	0	20.50
		1	74	22.64	22.61	22.62	2	23.00	20.45	20.35	20.26	0	20.50
		36	0	21.62	21.73	21.54	3	22.00	20.40	20.46	20.25	0	20.50
		36	20	21.47	21.73	21.53	3	22.00	20.26	20.46	20.28	0	20.50
		36	39	21.51	21.84	21.48	3	22.00	20.33	20.49	20.26	0	20.50
		75	0	21.44	21.67	21.44	3	22.00	20.23	20.36	20.20	0	20.50
10 MHz	QPSK	1	0	24.53	24.90	24.88	0	25.00	20.26	20.18	20.23	0	20.50
		1	25	24.95	24.91	24.75	0	25.00	20.41	20.11	20.20	0	20.50
		1	49	24.89	24.57	24.80	0	25.00	20.40	20.03	20.07	0	20.50
		25	0	23.53	23.86	23.74	1	24.00	20.30	20.17	20.13	0	20.50
		25	12	23.89	23.95	23.75	1	24.00	20.41	20.10	20.05	0	20.50
		25	25	23.79	23.53	23.86	1	24.00	20.29	20.09	20.00	0	20.50
		50	0	23.88	23.96	23.79	1	24.00	20.29	20.12	20.04	0	20.50
	16QAM	1	0	23.83	23.86	23.74	1	24.00	20.21	20.33	20.28	0	20.50
		1	25	23.68	23.80	23.65	1	24.00	20.43	20.19	20.23	0	20.50
		1	49	23.65	23.89	23.62	1	24.00	20.39	20.13	20.14	0	20.50
		25	0	22.54	22.92	22.85	2	23.00	20.37	20.25	20.21	0	20.50
		25	12	22.94	22.96	22.76	2	23.00	20.44	20.17	20.13	0	20.50
		25	25	22.86	22.59	22.87	2	23.00	20.38	20.15	20.07	0	20.50
		50	0	22.97	22.54	22.84	2	23.00	20.34	20.17	20.12	0	20.50
	64QAM	1	0	22.72	22.73	22.58	2	23.00	20.37	20.42	20.30	0	20.50
		1	25	22.60	22.58	22.46	2	23.00	20.22	20.36	20.14	0	20.50
		1	49	22.61	22.79	22.64	2	23.00	20.18	20.49	20.30	0	20.50
		25	0	21.77	21.69	21.56	3	22.00	20.45	20.37	20.30	0	20.50
		25	12	21.63	21.75	21.47	3	22.00	20.32	20.41	20.18	0	20.50
		25	25	21.51	21.83	21.58	3	22.00	20.20	20.47	20.25	0	20.50
		50	0	21.64	21.76	21.52	3	22.00	20.32	20.36	20.24	0	20.50

LTE Band 25 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	24.95	24.90	24.79	0	25.00	20.16	20.19	20.14	0	20.50
		1	12	24.95	24.88	24.81	0	25.00	20.22	20.07	20.05	0	20.50
		1	24	24.88	24.97	24.75	0	25.00	20.32	20.07	20.02	0	20.50
		12	0	23.88	23.76	23.73	1	24.00	20.10	20.04	20.06	0	20.50
		12	7	23.87	23.80	23.78	1	24.00	20.16	19.96	19.95	0	20.50
		12	13	23.80	23.86	23.77	1	24.00	20.23	20.00	19.95	0	20.50
	16QAM	25	0	23.87	23.87	23.79	1	24.00	20.14	19.98	19.95	0	20.50
		1	0	23.86	23.70	23.76	1	24.00	20.34	20.27	20.40	0	20.50
		1	12	23.86	23.72	23.80	1	24.00	20.42	20.14	20.31	0	20.50
		1	24	23.72	23.77	23.56	1	24.00	20.49	20.11	20.28	0	20.50
		12	0	22.84	22.84	22.76	2	23.00	20.10	20.07	20.06	0	20.50
		12	7	22.89	22.87	22.78	2	23.00	20.16	20.01	19.96	0	20.50
	64QAM	12	13	22.87	22.87	22.78	2	23.00	20.23	20.02	19.97	0	20.50
		25	0	22.88	22.84	22.74	2	23.00	20.18	19.98	19.94	0	20.50
		1	0	22.78	22.64	22.54	2	23.00	20.42	20.33	20.35	0	20.50
		1	12	22.78	22.68	22.52	2	23.00	20.40	20.35	20.41	0	20.50
		1	24	22.72	22.75	22.59	2	23.00	20.34	20.47	20.34	0	20.50
		12	0	21.58	21.51	21.32	3	22.00	20.33	20.16	20.06	0	20.50
3 MHz	QPSK	12	7	21.58	21.55	21.31	3	22.00	20.32	20.19	20.11	0	20.50
		12	13	21.51	21.55	21.34	3	22.00	20.26	20.20	20.12	0	20.50
		25	0	21.57	21.52	21.35	3	22.00	20.29	20.22	20.12	0	20.50
	16QAM	1	0	24.90	24.73	24.76	0	25.00	20.03	20.10	20.00	0	20.50
		1	8	24.95	24.81	24.73	0	25.00	20.18	20.05	20.03	0	20.50
		1	14	24.93	24.84	24.67	0	25.00	20.11	20.00	19.94	0	20.50
		8	0	23.83	23.75	23.63	1	24.00	19.94	19.96	19.83	0	20.50
		8	4	23.82	23.78	23.60	1	24.00	20.01	19.94	19.82	0	20.50
		8	7	23.82	23.79	23.60	1	24.00	20.01	19.96	19.82	0	20.50
	64QAM	15	0	23.82	23.78	23.67	1	24.00	20.00	19.95	19.86	0	20.50
		1	0	23.69	23.63	23.54	1	24.00	20.30	20.42	20.39	0	20.50
		1	8	23.73	23.78	23.66	1	24.00	20.43	20.44	20.39	0	20.50
		1	14	23.68	23.69	23.85	1	24.00	20.37	20.40	20.30	0	20.50
		8	0	22.81	22.75	22.64	2	23.00	19.95	19.94	19.86	0	20.50
		8	4	22.86	22.74	22.59	2	23.00	20.02	19.93	19.87	0	20.50
1.4 MHz	QPSK	8	7	22.84	22.73	22.59	2	23.00	20.01	19.94	19.84	0	20.50
		15	0	22.80	22.70	22.57	2	23.00	19.98	19.91	19.84	0	20.50
		1	0	22.62	22.55	22.33	2	23.00	20.31	20.22	20.15	0	20.50
		1	8	22.58	22.57	22.44	2	23.00	20.44	20.43	20.19	0	20.50
		1	14	22.57	22.53	22.39	2	23.00	20.32	20.38	20.22	0	20.50
		8	0	21.47	21.41	21.28	3	22.00	20.17	20.16	19.98	0	20.50
	16QAM	8	4	21.44	21.47	21.24	3	22.00	20.17	20.16	19.96	0	20.50
		8	7	21.46	21.50	21.25	3	22.00	20.18	20.17	20.00	0	20.50
		15	0	21.44	21.42	21.19	3	22.00	20.15	20.09	19.92	0	20.50
		1	0	24.94	24.90	24.74	0	25.00	20.15	20.12	19.99	0	20.50
		1	3	24.94	24.81	24.76	0	25.00	20.13	20.01	19.97	0	20.50
		1	5	24.98	24.84	24.60	0	25.00	20.17	20.16	19.95	0	20.50
	64QAM	3	0	24.84	24.78	24.46	0	25.00	19.99	19.99	19.86	0	20.50
		3	1	24.84	24.76	24.46	0	25.00	19.97	19.98	19.86	0	20.50
		3	3	24.84	24.77	24.19	0	25.00	19.98	19.99	19.82	0	20.50
		6	0	23.77	23.73	23.47	1	24.00	19.97	19.92	19.78	0	20.50
		1	0	23.76	23.57	24.00	1	24.00	20.50	20.40	20.33	0	20.50
		1	3	23.77	23.57	23.91	1	24.00	20.45	20.46	20.33	0	20.50
1.4 MHz	16QAM	1	5	23.71	23.62	23.88	1	24.00	20.50	20.43	20.36	0	20.50
		3	0	23.98	23.92	23.61	1	24.00	20.11	20.13	19.96	0	20.50
		3	1	23.98	23.88	23.56	1	24.00	20.10	20.11	19.95	0	20.50
		3	3	24.00	23.90	23.59	1	24.00	20.09	20.10	19.95	0	20.50
		6	0	22.88	22.81	22.59	2	23.00	19.95	20.00	19.76	0	20.50
		1	0	22.77	22.53	22.65	2	23.00	20.37	20.48	20.19	0	20.50
	64QAM	1	3	22.79	22.56	22.67	2	23.00	20.30	20.47	20.16	0	20.50
		1	5	22.62	22.52	22.52	2	23.00	20.36	20.45	20.11	0	20.50
		3	0	22.61	22.50	22.50	2	23.00	20.36	20.41	20.09	0	20.50
		3	1	22.61	22.49	22.50	2	23.00	20.36	20.38	20.09	0	20.50
		3	3	22.60	22.49	22.50	2	23.00	20.33	20.38	20.10	0	20.50
		6	0	21.53	21.43	21.32	3	22.00	20.24	20.24	20.02	0	20.50

LTE Band 25 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	17.45	17.61	17.30	0	17.75	18.87	18.84	18.76	0	19.00
		1	49	17.55	17.67	17.33	0	17.75	18.90	18.90	18.83	0	19.00
		1	99	17.57	17.52	17.33	0	17.75	18.85	18.79	18.80	0	19.00
		50	0	17.49	17.61	17.35	0	17.75	18.57	18.51	18.84	0	19.00
		50	24	17.52	17.61	17.35	0	17.75	18.93	18.54	18.94	0	19.00
		50	50	17.50	17.52	17.30	0	17.75	18.83	18.51	18.93	0	19.00
	16QAM	1	0	17.12	17.40	17.47	0	17.75	18.80	18.89	18.91	0	19.00
		1	49	17.59	17.62	17.73	0	17.75	18.96	18.97	18.72	0	19.00
		1	99	17.63	17.71	17.74	0	17.75	19.00	18.83	18.71	0	19.00
		50	0	17.51	17.65	17.44	0	17.75	18.96	18.63	18.85	0	19.00
		50	24	17.55	17.63	17.44	0	17.75	18.52	18.63	18.85	0	19.00
		50	50	17.64	17.58	17.50	0	17.75	18.65	18.57	18.97	0	19.00
	64QAM	100	0	17.54	17.61	17.43	0	17.75	18.51	18.60	18.89	0	19.00
		1	0	17.23	17.72	17.71	0	17.75	18.23	18.79	18.71	0	19.00
		1	49	17.58	17.74	17.70	0	17.75	18.58	18.79	18.70	0	19.00
		1	99	17.62	17.74	17.70	0	17.75	18.62	18.74	18.70	0	19.00
		50	0	17.37	17.49	17.31	0	17.75	18.37	18.49	18.31	0	19.00
		50	24	17.50	17.47	17.32	0	17.75	18.50	18.47	18.32	0	19.00
15 MHz	QPSK	1	0	17.63	17.57	17.59	0	17.75	18.80	18.88	18.85	0	19.00
		1	37	17.50	17.53	17.50	0	17.75	18.86	18.82	18.82	0	19.00
		1	74	17.50	17.46	17.53	0	17.75	18.83	18.81	18.89	0	19.00
		36	0	17.58	17.57	17.49	0	17.75	18.88	18.82	18.80	0	19.00
		36	20	17.57	17.61	17.57	0	17.75	18.86	18.82	18.80	0	19.00
		36	39	17.64	17.52	17.60	0	17.75	18.85	18.90	18.89	0	19.00
	16QAM	75	0	17.62	17.50	17.58	0	17.75	18.90	18.87	18.88	0	19.00
		1	0	17.46	17.58	17.51	0	17.75	18.86	18.90	18.84	0	19.00
		1	37	17.63	17.46	17.54	0	17.75	18.90	18.85	18.87	0	19.00
		1	74	17.57	17.59	17.54	0	17.75	18.84	18.82	18.89	0	19.00
		36	0	17.47	17.59	17.65	0	17.75	18.87	18.84	18.86	0	19.00
		36	20	17.50	17.46	17.63	0	17.75	18.82	18.90	18.90	0	19.00
	64QAM	36	39	17.47	17.51	17.61	0	17.75	18.84	18.84	18.89	0	19.00
		75	0	17.57	17.64	17.54	0	17.75	18.85	18.89	18.85	0	19.00
		1	0	17.52	17.57	17.61	0	17.75	18.80	18.85	18.84	0	19.00
		1	37	17.52	17.60	17.54	0	17.75	18.83	18.85	18.81	0	19.00
		1	74	17.49	17.57	17.59	0	17.75	18.87	18.90	18.89	0	19.00
		36	0	17.48	17.51	17.63	0	17.75	18.82	18.84	18.86	0	19.00
10 MHz	QPSK	36	20	17.48	17.57	17.45	0	17.75	18.81	18.89	18.90	0	19.00
		36	39	17.58	17.55	17.51	0	17.75	18.88	18.84	18.83	0	19.00
		75	0	17.61	17.57	17.48	0	17.75	18.81	18.88	18.87	0	19.00
	16QAM	1	0	17.64	17.54	17.55	0	17.75	18.83	18.86	18.86	0	19.00
		1	25	17.49	17.56	17.47	0	17.75	18.86	18.83	18.83	0	19.00
		1	49	17.50	17.56	17.63	0	17.75	18.80	18.80	18.83	0	19.00
	64QAM	25	0	17.48	17.52	17.49	0	17.75	18.88	18.81	18.84	0	19.00
		25	12	17.60	17.54	17.59	0	17.75	18.87	18.89	18.88	0	19.00
		25	25	17.59	17.51	17.61	0	17.75	18.85	18.86	18.82	0	19.00
		50	0	17.47	17.61	17.63	0	17.75	18.84	18.81	18.89	0	19.00
	16QAM	1	0	17.47	17.56	17.48	0	17.75	18.82	18.81	18.83	0	19.00
		1	25	17.58	17.59	17.49	0	17.75	18.83	18.88	18.89	0	19.00
		1	49	17.62	17.46	17.63	0	17.75	18.81	18.89	18.85	0	19.00
		25	0	17.46	17.46	17.47	0	17.75	18.81	18.84	18.87	0	19.00
		25	12	17.59	17.64	17.49	0	17.75	18.86	18.80	18.89	0	19.00
		25	25	17.65	17.51	17.48	0	17.75	18.89	18.85	18.83	0	19.00
	64QAM	50	0	17.50	17.52	17.48	0	17.75	18.89	18.85	18.89	0	19.00
		1	0	17.52	17.52	17.46	0	17.75	18.90	18.81	18.87	0	19.00
		1	25	17.64	17.57	17.62	0	17.75	18.86	18.82	18.86	0	19.00
		1	49	17.52	17.62	17.46	0	17.75	18.81	18.88	18.89	0	19.00
		25	0	17.55	17.55	17.55	0	17.75	18.81	18.85	18.86	0	19.00
		25	12	17.61	17.50	17.60	0	17.75	18.81	18.84	18.90	0	19.00
		25	25	17.55	17.52	17.51	0	17.75	18.87	18.81	18.87	0	19.00
		50	0	17.59	17.54	17.53	0	17.75	18.81	18.85	18.87	0	19.00

LTE Band 25 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	17.45	17.56	17.57	0	17.75	18.89	18.87	18.87	0	19.00
		1	12	17.61	17.56	17.59	0	17.75	18.88	18.85	18.82	0	19.00
		1	24	17.49	17.53	17.62	0	17.75	18.81	18.85	18.84	0	19.00
		12	0	17.60	17.57	17.64	0	17.75	18.88	18.80	18.83	0	19.00
		12	7	17.49	17.61	17.50	0	17.75	18.88	18.90	18.88	0	19.00
		12	13	17.52	17.56	17.57	0	17.75	18.85	18.87	18.87	0	19.00
	16QAM	25	0	17.49	17.47	17.58	0	17.75	18.81	18.83	18.85	0	19.00
		1	0	17.63	17.55	17.61	0	17.75	18.85	18.83	18.86	0	19.00
		1	12	17.47	17.46	17.62	0	17.75	18.82	18.83	18.87	0	19.00
		1	24	17.50	17.53	17.55	0	17.75	18.83	18.89	18.84	0	19.00
		12	0	17.60	17.51	17.61	0	17.75	18.81	18.89	18.85	0	19.00
		12	7	17.63	17.49	17.52	0	17.75	18.84	18.82	18.89	0	19.00
	64QAM	12	13	17.50	17.53	17.62	0	17.75	18.88	18.82	18.90	0	19.00
		25	0	17.52	17.54	17.50	0	17.75	18.90	18.85	18.82	0	19.00
		1	0	17.62	17.50	17.60	0	17.75	18.83	18.83	18.83	0	19.00
		1	12	17.53	17.50	17.61	0	17.75	18.84	18.89	18.87	0	19.00
		1	24	17.56	17.54	17.57	0	17.75	18.89	18.83	18.80	0	19.00
		12	0	17.60	17.64	17.50	0	17.75	18.81	18.88	18.86	0	19.00
3 MHz	QPSK	12	7	17.45	17.60	17.51	0	17.75	18.84	18.81	18.86	0	19.00
		12	13	17.55	17.53	17.60	0	17.75	18.89	18.83	18.90	0	19.00
		25	0	17.53	17.55	17.53	0	17.75	18.89	18.83	18.82	0	19.00
		1	0	17.52	17.57	17.54	0	17.75	18.88	18.86	18.85	0	19.00
		1	8	17.50	17.55	17.48	0	17.75	18.84	18.88	18.82	0	19.00
		1	14	17.63	17.58	17.47	0	17.75	18.85	18.81	18.82	0	19.00
	16QAM	8	0	17.48	17.51	17.47	0	17.75	18.86	18.86	18.84	0	19.00
		8	4	17.56	17.46	17.50	0	17.75	18.81	18.85	18.83	0	19.00
		8	7	17.58	17.59	17.64	0	17.75	18.87	18.82	18.83	0	19.00
		15	0	17.62	17.58	17.63	0	17.75	18.86	18.86	18.88	0	19.00
		1	0	17.64	17.52	17.55	0	17.75	18.89	18.80	18.90	0	19.00
		1	8	17.58	17.62	17.54	0	17.75	18.88	18.87	18.86	0	19.00
	64QAM	1	14	17.51	17.63	17.63	0	17.75	18.88	18.87	18.88	0	19.00
		8	0	17.59	17.47	17.48	0	17.75	18.84	18.83	18.86	0	19.00
		8	4	17.61	17.65	17.51	0	17.75	18.87	18.89	18.87	0	19.00
		8	7	17.63	17.58	17.50	0	17.75	18.84	18.87	18.80	0	19.00
		15	0	17.52	17.53	17.51	0	17.75	18.81	18.87	18.85	0	19.00
		1	0	17.55	17.50	17.62	0	17.75	18.90	18.84	18.85	0	19.00
1.4 MHz	QPSK	1	8	17.56	17.47	17.61	0	17.75	18.83	18.87	18.80	0	19.00
		1	14	17.46	17.61	17.46	0	17.75	18.82	18.87	18.84	0	19.00
		8	0	17.63	17.46	17.63	0	17.75	18.87	18.83	18.87	0	19.00
		8	4	17.50	17.48	17.52	0	17.75	18.82	18.86	18.86	0	19.00
		8	7	17.61	17.54	17.61	0	17.75	18.84	18.87	18.89	0	19.00
		15	0	17.63	17.58	17.48	0	17.75	18.86	18.89	18.90	0	19.00
	16QAM	1	0	17.62	17.62	17.60	0	17.75	18.88	18.88	18.81	0	19.00
		1	3	17.54	17.55	17.62	0	17.75	18.88	18.87	18.81	0	19.00
		1	5	17.48	17.54	17.48	0	17.75	18.81	18.87	18.87	0	19.00
		3	0	17.45	17.63	17.51	0	17.75	18.88	18.89	18.83	0	19.00
		3	1	17.57	17.54	17.53	0	17.75	18.89	18.86	18.81	0	19.00
		3	3	17.63	17.58	17.55	0	17.75	18.81	18.86	18.86	0	19.00
	64QAM	6	0	17.60	17.49	17.55	0	17.75	18.83	18.83	18.82	0	19.00
		1	0	17.52	17.48	17.53	0	17.75	18.80	18.80	18.89	0	19.00
		1	3	17.64	17.47	17.57	0	17.75	18.87	18.86	18.84	0	19.00
		1	5	17.63	17.55	17.50	0	17.75	18.84	18.82	18.88	0	19.00
		3	0	17.45	17.60	17.64	0	17.75	18.88	18.86	18.89	0	19.00
		3	1	17.45	17.57	17.60	0	17.75	18.85	18.85	18.85	0	19.00
1.4 MHz	16QAM	3	3	17.60	17.56	17.51	0	17.75	18.82	18.86	18.85	0	19.00
		6	0	17.51	17.58	17.49	0	17.75	18.83	18.86	18.86	0	19.00
		1	0	17.50	17.56	17.47	0	17.75	18.81	18.90	18.84	0	19.00
		1	3	17.62	17.62	17.55	0	17.75	18.82	18.86	18.84	0	19.00
		1	5	17.50	17.58	17.60	0	17.75	18.90	18.89	18.89	0	19.00
		3	0	17.51	17.62	17.53	0	17.75	18.80	18.87	18.83	0	19.00
	64QAM	3	1	17.46	17.60	17.53	0	17.75	18.88	18.87	18.87	0	19.00
		3	3	17.62	17.54	17.59	0	17.75	18.87	18.83	18.88	0	19.00
		6	0	17.56	17.49	17.47	0	17.75	18.85	18.81	18.85	0	19.00
		6	0	17.56	17.49	17.47	0	17.75	18.85	18.81	18.85	0	19.00

LTE Band 26 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Tune-up Limit	26740	26865	26990	MPR	Tune-up Limit
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	25.30	25.17	25.16	0	25.70	25.30	25.17	25.16	0	25.70
		1	25	25.23	25.30	25.28	0	25.70	25.23	25.30	25.28	0	25.70
		1	49	25.12	24.99	25.27	0	25.70	25.12	24.99	25.27	0	25.70
		25	0	24.31	24.15	24.25	1	24.70	24.31	24.15	24.25	1	24.70
		25	12	24.18	24.30	24.24	1	24.70	24.18	24.30	24.24	1	24.70
		25	25	24.06	24.00	24.24	1	24.70	24.06	24.00	24.24	1	24.70
		50	0	24.18	24.11	24.26	1	24.70	24.18	24.11	24.26	1	24.70
	16QAM	1	0	24.53	24.52	24.52	1	24.70	24.53	24.52	24.52	1	24.70
		1	25	24.50	24.52	24.69	1	24.70	24.50	24.52	24.69	1	24.70
		1	49	24.37	24.31	24.63	1	24.70	24.37	24.31	24.63	1	24.70
		25	0	23.33	23.18	23.27	2	23.70	23.33	23.18	23.27	2	23.70
		25	12	23.19	23.17	23.26	2	23.70	23.19	23.17	23.26	2	23.70
		25	25	23.09	23.01	23.23	2	23.70	23.09	23.01	23.23	2	23.70
		50	0	23.20	23.09	23.25	2	23.70	23.20	23.09	23.25	2	23.70
	64QAM	1	0	23.53	23.63	23.57	2	23.70	23.53	23.63	23.57	2	23.70
		1	25	23.59	23.64	23.53	2	23.70	23.59	23.64	23.53	2	23.70
		1	49	23.60	23.55	23.49	2	23.70	23.60	23.55	23.49	2	23.70
		25	0	22.45	22.36	22.40	3	22.70	22.45	22.36	22.40	3	22.70
		25	12	22.42	22.40	22.34	3	22.70	22.42	22.40	22.34	3	22.70
		25	25	22.37	22.40	22.33	3	22.70	22.37	22.40	22.33	3	22.70
		50	0	22.43	22.41	22.34	3	22.70	22.43	22.41	22.34	3	22.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26715	26865	27015	MPR	Tune-up Limit	26715	26865	27015	MPR	Tune-up Limit
				816.5 MHz	831.5 MHz	846.5 MHz			816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	25.48	25.27	25.31	0	25.70	25.48	25.27	25.31	0	25.70
		1	12	25.37	25.20	25.27	0	25.70	25.37	25.20	25.27	0	25.70
		1	24	25.24	25.11	25.25	0	25.70	25.24	25.11	25.25	0	25.70
		12	0	24.33	24.18	24.27	1	24.70	24.33	24.18	24.27	1	24.70
		12	7	24.29	24.16	24.24	1	24.70	24.29	24.16	24.24	1	24.70
		12	13	24.26	24.10	24.21	1	24.70	24.26	24.10	24.21	1	24.70
		25	0	24.26	24.11	24.24	1	24.70	24.26	24.11	24.24	1	24.70
	16QAM	1	0	24.68	24.55	24.59	1	24.70	24.68	24.55	24.59	1	24.70
		1	12	24.57	24.54	24.53	1	24.70	24.57	24.54	24.53	1	24.70
		1	24	24.68	24.42	24.52	1	24.70	24.68	24.42	24.52	1	24.70
		12	0	23.28	23.15	23.23	2	23.70	23.28	23.15	23.23	2	23.70
		12	7	23.24	23.14	23.18	2	23.70	23.24	23.14	23.18	2	23.70
		12	13	23.22	23.07	23.14	2	23.70	23.22	23.07	23.14	2	23.70
		25	0	23.26	23.03	23.15	2	23.70	23.26	23.03	23.15	2	23.70
	64QAM	1	0	23.56	23.60	23.51	2	23.70	23.56	23.60	23.51	2	23.70
		1	12	23.68	23.65	23.52	2	23.70	23.68	23.65	23.52	2	23.70
		1	24	23.66	23.67	23.52	2	23.70	23.66	23.67	23.52	2	23.70
		12	0	22.34	22.27	22.19	3	22.70	22.34	22.27	22.19	3	22.70
		12	7	22.28	22.23	22.19	3	22.70	22.28	22.23	22.19	3	22.70
		12	13	22.37	22.24	22.16	3	22.70	22.37	22.24	22.16	3	22.70
		25	0	22.29	22.24	22.22	3	22.70	22.29	22.24	22.22	3	22.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26705	26865	27025	MPR	Tune-up Limit	26705	26865	27025	MPR	Tune-up Limit
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	25.46	25.16	25.26	0	25.70	25.46	25.16	25.26	0	25.70
		1	8	25.45	25.14	25.29	0	25.70	25.45	25.14	25.29	0	25.70
		1	14	25.38	25.08	25.14	0	25.70	25.38	25.08	25.14	0	25.70
		8	0	24.36	24.10	24.09	1	24.70	24.36	24.10	24.09	1	24.70
		8	4	24.28	24.09	24.12	1	24.70	24.28	24.09	24.12	1	24.70
		8	7	24.27	24.04	24.10	1	24.70	24.27	24.04	24.10	1	24.70
		15	0	24.29	24.04	24.17	1	24.70	24.29	24.04	24.17	1	24.70
	16QAM	1	0	24.67	24.48	24.66	1	24.70	24.67	24.48	24.66	1	24.70
		1	8	24.66	24.46	24.58	1	24.70	24.66	24.46	24.58	1	24.70
		1	14	24.61	24.43	24.51	1	24.70	24.61	24.43	24.51	1	24.70
		8	0	23.33	23.04	23.12	2	23.70	23.33	23.04	23.12	2	23.70
		8	4	23.22	23.02	23.07	2	23.70	23.22	23.02	23.07	2	23.70
		8	7	23.23	22.94	23.07	2	23.70	23.23	22.94	23.07	2	23.70
		15	0	23.20	22.93	23.08	2	23.70	23.20	22.93	23.08	2	23.70
	64QAM	1	0	23.54	23.66	23.60	2	23.70	23.54	23.66	23.60	2	23.70
		1	8	23.59	23.67	23.50	2	23.70	23.59	23.67	23.50	2	23.70
		1	14	23.54	23.55	23.52	2	23.70	23.54	23.55	23.52	2	23.70
		8	0	22.35	22.27	22.25	3	22.70	22.35	22.27	22.25	3	22.70
		8	4	22.26	22.24	22.20	3	22.70	22.26	22.24	22.20	3	22.70
		8	7	22.29	22.26	22.18	3	22.70	22.29	22.26	22.18	3	22.70
		15	0	22.26	22.21	22.16	3	22.70	22.26	22.21	22.16	3	22.70

LTE Band 26 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26697	26865	27033	MPR	Tune-up Limit	26697	26865	27033	MPR	Tune-up Limit
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	25.52	25.27	25.26	0	25.70	25.52	25.27	25.26	0	25.70
		1	3	25.50	25.15	25.25	0	25.70	25.50	25.15	25.25	0	25.70
		1	5	25.39	25.13	25.23	0	25.70	25.39	25.13	25.23	0	25.70
		3	0	25.32	25.11	25.09	0	25.70	25.32	25.11	25.09	0	25.70
		3	1	25.31	25.11	25.07	0	25.70	25.31	25.11	25.07	0	25.70
		3	3	25.31	25.03	25.07	0	25.70	25.31	25.03	25.07	0	25.70
	16QAM	6	0	24.20	23.97	24.12	1	24.70	24.20	23.97	24.12	1	24.70
		1	0	24.53	24.45	24.57	1	24.70	24.53	24.45	24.57	1	24.70
		1	3	24.68	24.39	24.58	1	24.70	24.68	24.39	24.58	1	24.70
		1	5	24.67	24.39	24.60	1	24.70	24.67	24.39	24.60	1	24.70
		3	0	24.44	24.21	24.24	1	24.70	24.44	24.21	24.24	1	24.70
		3	1	24.40	24.21	24.22	1	24.70	24.40	24.21	24.22	1	24.70
	64QAM	3	3	24.41	24.15	24.19	1	24.70	24.41	24.15	24.19	1	24.70
		6	0	23.36	23.01	23.00	2	23.70	23.36	23.01	23.00	2	23.70
		1	0	23.53	23.63	23.59	2	23.70	23.53	23.63	23.59	2	23.70
		1	3	23.63	23.53	23.49	2	23.70	23.63	23.53	23.49	2	23.70
		1	5	23.51	23.54	23.46	2	23.70	23.51	23.54	23.46	2	23.70
		3	0	23.47	23.45	23.22	2	23.70	23.47	23.45	23.22	2	23.70
	64QAM	3	1	23.49	23.44	23.21	2	23.70	23.49	23.44	23.21	2	23.70
		3	3	23.49	23.46	23.17	2	23.70	23.49	23.46	23.17	2	23.70
		6	0	22.38	22.28	22.18	3	22.70	22.38	22.28	22.18	3	22.70

LTE Band 26 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Tune-up Limit	26740	26865	26990	MPR	Tune-up Limit
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	24.20	24.25	24.30	0	24.50	24.20	24.25	24.30	0	24.50
		1	25	24.25	24.40	24.37	0	24.50	24.25	24.40	24.37	0	24.50
		1	49	24.20	24.33	24.33	0	24.50	24.20	24.33	24.33	0	24.50
		25	0	23.20	23.28	23.25	1	23.50	23.20	23.28	23.25	1	23.50
		25	12	23.22	23.35	23.29	1	23.50	23.22	23.35	23.29	1	23.50
		25	25	23.14	23.28	23.19	1	23.50	23.14	23.28	23.19	1	23.50
		50	0	23.24	23.26	23.20	1	23.50	23.24	23.26	23.20	1	23.50
	16QAM	1	0	23.41	23.46	23.48	1	23.50	23.41	23.46	23.48	1	23.50
		1	25	23.32	23.37	23.49	1	23.50	23.32	23.37	23.49	1	23.50
		1	49	23.31	23.50	23.42	1	23.50	23.31	23.50	23.42	1	23.50
		25	0	22.27	22.33	22.32	2	22.50	22.27	22.33	22.32	2	22.50
		25	12	22.24	22.22	22.38	2	22.50	22.24	22.22	22.38	2	22.50
		25	25	22.18	22.32	22.30	2	22.50	22.18	22.32	22.30	2	22.50
		50	0	22.24	22.28	22.38	2	22.50	22.24	22.28	22.38	2	22.50
	64QAM	1	0	22.48	22.37	22.42	2	22.50	22.48	22.37	22.42	2	22.50
		1	25	22.37	22.29	22.46	2	22.50	22.37	22.29	22.46	2	22.50
		1	49	22.31	22.43	22.36	2	22.50	22.31	22.43	22.36	2	22.50
		25	0	21.19	21.27	21.33	3	21.50	21.19	21.27	21.33	3	21.50
		25	12	21.16	21.16	21.36	3	21.50	21.16	21.16	21.36	3	21.50
		25	25	21.14	21.26	21.23	3	21.50	21.14	21.26	21.23	3	21.50
		50	0	21.18	21.25	21.35	3	21.50	21.18	21.25	21.35	3	21.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26715	26865	27015	MPR	Tune-up Limit	26715	26865	27015	MPR	Tune-up Limit
				816.5 MHz	831.5 MHz	846.5 MHz			816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.33	24.34	24.34	0	24.50	24.33	24.34	24.34	0	24.50
		1	12	24.19	24.22	24.21	0	24.50	24.19	24.22	24.21	0	24.50
		1	24	24.18	24.30	24.28	0	24.50	24.18	24.30	24.28	0	24.50
		12	0	23.09	23.09	23.22	1	23.50	23.09	23.09	23.22	1	23.50
		12	7	23.20	23.07	23.12	1	23.50	23.20	23.07	23.12	1	23.50
		12	13	23.24	23.13	23.11	1	23.50	23.24	23.13	23.11	1	23.50
		25	0	23.20	23.16	23.14	1	23.50	23.20	23.16	23.14	1	23.50
	16QAM	1	0	23.35	23.30	23.50	1	23.50	23.35	23.30	23.50	1	23.50
		1	12	23.28	23.28	23.35	1	23.50	23.28	23.28	23.35	1	23.50
		1	24	23.31	23.33	23.42	1	23.50	23.31	23.33	23.42	1	23.50
		12	0	22.12	22.14	22.28	2	22.50	22.12	22.14	22.28	2	22.50
		12	7	22.15	22.15	22.14	2	22.50	22.15	22.15	22.14	2	22.50
		12	13	22.22	22.20	22.12	2	22.50	22.22	22.20	22.12	2	22.50
		25	0	22.18	22.16	22.09	2	22.50	22.18	22.16	22.09	2	22.50
	64QAM	1	0	22.37	22.36	22.44	2	22.50	22.37	22.36	22.44	2	22.50
		1	12	22.28	22.33	22.40	2	22.50	22.28	22.33	22.40	2	22.50
		1	24	22.33	22.31	22.47	2	22.50	22.33	22.31	22.47	2	22.50
		12	0	21.08	21.04	21.15	3	21.50	21.08	21.04	21.15	3	21.50
		12	7	21.12	21.07	21.04	3	21.50	21.12	21.07	21.04	3	21.50
		12	13	21.16	21.09	21.01	3	21.50	21.16	21.09	21.01	3	21.50
		25	0	21.09	21.12	21.07	3	21.50	21.09	21.12	21.07	3	21.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26705	26865	27025	MPR	Tune-up Limit	26705	26865	27025	MPR	Tune-up Limit
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.28	24.08	24.21	0	24.50	24.28	24.08	24.21	0	24.50
		1	8	24.22	24.15	24.25	0	24.50	24.22	24.15	24.25	0	24.50
		1	14	24.19	24.11	24.26	0	24.50	24.19	24.11	24.26	0	24.50
		8	0	23.15	23.03	23.05	1	23.50	23.15	23.03	23.05	1	23.50
		8	4	23.06	23.00	23.02	1	23.50	23.06	23.00	23.02	1	23.50
		8	7	23.06	23.08	23.01	1	23.50	23.06	23.08	23.01	1	23.50
		15	0	23.07	23.07	23.09	1	23.50	23.07	23.07	23.09	1	23.50
	16QAM	1	0	23.50	23.40	23.36	1	23.50	23.50	23.40	23.36	1	23.50
		1	8	23.47	23.50	23.40	1	23.50	23.47	23.50	23.40	1	23.50
		1	14	23.49	23.46	23.40	1	23.50	23.49	23.46	23.40	1	23.50
		8	0	22.12	21.97	22.08	2	22.50	22.12	21.97	22.08	2	22.50
		8	4	22.11	22.02	22.04	2	22.50	22.11	22.02	22.04	2	22.50
		8	7	22.08	22.08	22.08	2	22.50	22.08	22.08	22.08	2	22.50
		15	0	22.08	22.05	22.08	2	22.50	22.08	22.05	22.08	2	22.50
	64QAM	1	0	22.43	22.29	22.38	2	22.50	22.43	22.29	22.38	2	22.50
		1	8	22.40	22.40	22.44	2	22.50	22.40	22.40	22.44	2	22.50
		1	14	22.41	22.34	22.34	2	22.50	22.41	22.34	22.34	2	22.50
		8	0	21.09	21.03	21.04	3	21.50	21.09	21.03	21.04	3	21.50
		8	4	21.01	21.00	21.04	3	21.50	21.01	21.00	21.04	3	21.50
		8	7	21.01	21.05	21.02	3	21.50	21.01	21.05	21.02	3	21.50
		15	0	21.01	21.01	21.00	3	21.50	21.01	21.01	21.00	3	21.50

LTE Band 26 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26697	26865	27033	MPR	Tune-up Limit	26697	26865	27033	MPR	Tune-up Limit
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.35	24.21	24.26	0	24.50	24.35	24.21	24.26	0	24.50
		1	3	24.31	24.20	24.27	0	24.50	24.31	24.20	24.27	0	24.50
		1	5	24.26	24.27	24.37	0	24.50	24.26	24.27	24.37	0	24.50
		3	0	24.16	24.07	24.16	0	24.50	24.16	24.07	24.16	0	24.50
		3	1	24.15	24.06	24.15	0	24.50	24.15	24.06	24.15	0	24.50
		3	3	24.16	24.07	24.16	0	24.50	24.16	24.07	24.16	0	24.50
	16QAM	6	0	23.19	23.04	23.07	1	23.50	23.19	23.04	23.07	1	23.50
		1	0	23.49	23.47	23.45	1	23.50	23.49	23.47	23.45	1	23.50
		1	3	23.43	23.34	23.43	1	23.50	23.43	23.34	23.43	1	23.50
		1	5	23.40	23.50	23.49	1	23.50	23.40	23.50	23.49	1	23.50
		3	0	23.33	23.23	23.34	1	23.50	23.33	23.23	23.34	1	23.50
		3	1	23.31	23.24	23.36	1	23.50	23.31	23.24	23.36	1	23.50
	64QAM	3	3	23.29	23.23	23.31	1	23.50	23.29	23.23	23.31	1	23.50
		6	0	22.12	22.06	22.24	2	22.50	22.12	22.06	22.24	2	22.50
		1	0	22.46	22.30	22.42	2	22.50	22.46	22.30	22.42	2	22.50
		1	3	22.41	22.29	22.40	2	22.50	22.41	22.29	22.40	2	22.50
		1	5	22.24	22.35	22.49	2	22.50	22.24	22.35	22.49	2	22.50
		3	0	22.26	22.05	22.21	2	22.50	22.26	22.05	22.21	2	22.50
	64QAM	3	1	22.26	22.04	22.21	2	22.50	22.26	22.04	22.21	2	22.50
		3	3	22.28	22.07	22.18	2	22.50	22.28	22.07	22.18	2	22.50
		6	0	21.12	21.03	21.13	3	21.50	21.12	21.03	21.13	3	21.50

LTE Band 30 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	2310 MHz	MPR	Tune-up Limit	27710	2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	25.15		0	25.70	20.11		0	20.25
		1	25	25.24		0	25.70	20.18		0	20.25
		1	49	25.01		0	25.70	20.02		0	20.25
		25	0	24.23		1	24.70	19.84		0	20.25
		25	12	24.50		1	24.70	20.10		0	20.25
		25	25	24.14		1	24.70	19.81		0	20.25
		50	0	24.19		1	24.70	20.03		0	20.25
	16QAM	1	0	24.54		1	24.70	20.06		0	20.25
		1	25	24.58		1	24.70	20.24		0	20.25
		1	49	24.36		1	24.70	20.16		0	20.25
		25	0	23.32		2	23.70	20.17		0	20.25
		25	12	23.27		2	23.70	20.02		0	20.25
		25	25	23.18		2	23.70	20.16		0	20.25
	64QAM	50	0	23.20		2	23.70	19.84		0	20.25
		1	0	23.34		2	23.70	19.90		0	20.25
		1	25	23.30		2	23.70	20.00		0	20.25
		1	49	23.21		2	23.70	19.98		0	20.25
		25	0	22.14		3	22.70	19.92		0	20.25
		25	12	22.02		3	22.70	19.80		0	20.25
		25	25	22.07		3	22.70	19.84		0	20.25
		50	0	22.05		3	22.70	19.83		0	20.25
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	2310 MHz	MPR	Tune-up Limit	27710	2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	25.18		0	25.70	20.18		0	20.25
		1	12	25.06		0	25.70	20.18		0	20.25
		1	24	25.12		0	25.70	20.23		0	20.25
		12	0	24.16		1	24.70	19.89		0	20.25
		12	7	24.12		1	24.70	19.81		0	20.25
		12	13	24.07		1	24.70	19.81		0	20.25
		25	0	24.04		1	24.70	20.02		0	20.25
	16QAM	1	0	24.67		1	24.70	20.02		0	20.25
		1	12	24.55		1	24.70	19.91		0	20.25
		1	24	24.56		1	24.70	20.04		0	20.25
		12	0	23.14		2	23.70	20.15		0	20.25
		12	7	23.08		2	23.70	20.03		0	20.25
		12	13	23.06		2	23.70	20.04		0	20.25
	64QAM	25	0	23.03		2	23.70	20.13		0	20.25
		1	0	23.43		2	23.70	20.04		0	20.25
		1	12	23.24		2	23.70	19.88		0	20.25
		1	24	23.31		2	23.70	19.98		0	20.25
		12	0	22.68		3	22.70	19.85		0	20.25
		12	7	22.56		3	22.70	19.82		0	20.25
		12	13	22.67		3	22.70	19.90		0	20.25
		25	0	22.55		3	22.70	19.81		0	20.25

LTE Band 30 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		20.68		0	21.25		19.69		0	20.00
		1	25		21.20		0	21.25		19.76		0	20.00
		1	49		20.57		0	21.25		19.66		0	20.00
		25	0		20.62		0	21.25		19.75		0	20.00
		25	12		21.20		0	21.25		19.76		0	20.00
		25	25		20.52		0	21.25		19.73		0	20.00
		50	0		21.20		0	21.25		19.76		0	20.00
	16QAM	1	0		20.95		0	21.25		19.98		0	20.00
		1	25		21.02		0	21.25		19.93		0	20.00
		1	49		20.96		0	21.25		19.96		0	20.00
		25	0		20.61		0	21.25		19.03		0	20.00
		25	12		20.54		0	21.25		19.04		0	20.00
		25	25		20.72		0	21.25		19.01		0	20.00
		50	0		20.64		0	21.25		19.06		0	20.00
	64QAM	1	0		20.25		0	21.25		19.57		0	20.00
		1	25		20.71		0	21.25		19.66		0	20.00
		1	49		20.64		0	21.25		19.69		0	20.00
		25	0		19.31		1	20.25		19.24		0	20.00
		25	12		19.95		1	20.25		19.28		0	20.00
		25	25		19.97		1	20.25		19.30		0	20.00
		50	0		19.96		1	20.25		19.32		0	20.00
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0		20.52		0	21.25		19.81		0	20.00
		1	12		20.61		0	21.25		19.83		0	20.00
		1	24		20.54		0	21.25		19.81		0	20.00
		12	0		20.53		0	21.25		19.69		0	20.00
		12	7		20.54		0	21.25		19.76		0	20.00
		12	13		20.56		0	21.25		19.80		0	20.00
		25	0		20.54		0	21.25		19.77		0	20.00
	16QAM	1	0		20.94		0	21.25		19.30		0	20.00
		1	12		21.01		0	21.25		19.26		0	20.00
		1	24		20.96		0	21.25		19.26		0	20.00
		12	0		20.28		0	21.25		19.14		0	20.00
		12	7		20.28		0	21.25		19.17		0	20.00
		12	13		20.29		0	21.25		19.21		0	20.00
		25	0		20.25		0	21.25		19.13		0	20.00
	64QAM	1	0		20.60		0	21.25		19.75		0	20.00
		1	12		20.59		0	21.25		19.68		0	20.00
		1	24		20.31		0	21.25		19.72		0	20.00
		12	0		19.89		1	20.25		19.45		0	20.00
		12	7		19.92		1	20.25		19.01		0	20.00
		12	13		19.94		1	20.25		19.09		0	20.00
		25	0		19.93		1	20.25		19.02		0	20.00

LTE Band 30 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	2310 MHz	MPR	Tune-up Limit	27710	2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.35		0	24.50	22.20		0	22.50
		1	25	24.38		0	24.50	22.30		0	22.50
		1	49	24.31		0	24.50	22.15		0	22.50
		25	0	23.30		1	23.50	22.00		0	22.50
		25	12	23.37		1	23.50	22.10		0	22.50
		25	25	23.27		1	23.50	22.00		0	22.50
		50	0	23.38		1	23.50	22.31		0	22.50
	16QAM	1	0	23.50		1	23.50	22.46		0	22.50
		1	25	23.47		1	23.50	22.35		0	22.50
		1	49	23.37		1	23.50	22.43		0	22.50
		25	0	22.34		2	22.50	22.11		0	22.50
		25	12	22.39		2	22.50	22.14		0	22.50
		25	25	22.31		2	22.50	22.10		0	22.50
	64QAM	50	0	22.39		2	22.50	22.06		0	22.50
		1	0	22.45		2	22.50	22.25		0	22.50
		1	25	22.39		2	22.50	22.10		0	22.50
		1	49	22.44		2	22.50	22.31		0	22.50
		25	0	21.18		3	21.50	20.94		1	21.50
		25	12	21.23		3	21.50	21.00		1	21.50
		25	25	21.11		3	21.50	20.91		1	21.50
		50	0	21.26		3	21.50	21.03		1	21.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	2310 MHz	MPR	Tune-up Limit	27710	2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	24.31		0	24.50	22.24		0	22.50
		1	12	24.21		0	24.50	22.21		0	22.50
		1	24	24.14		0	24.50	22.23		0	22.50
		12	0	23.21		1	23.50	22.15		0	22.50
		12	7	23.18		1	23.50	22.11		0	22.50
		12	13	23.19		1	23.50	22.18		0	22.50
		25	0	23.50		1	23.50	22.10		0	22.50
	16QAM	1	0	23.38		1	23.50	22.49		0	22.50
		1	12	23.32		1	23.50	22.40		0	22.50
		1	24	23.18		1	23.50	22.46		0	22.50
		12	0	22.21		2	22.50	22.21		0	22.50
		12	7	22.20		2	22.50	22.17		0	22.50
		12	13	22.17		2	22.50	22.22		0	22.50
	64QAM	25	0	22.33		2	22.50	22.12		0	22.50
		1	0	22.33		2	22.50	22.47		0	22.50
		1	12	22.41		2	22.50	22.48		0	22.50
		1	24	22.34		2	22.50	22.42		0	22.50
		12	0	20.98		3	21.50	21.05		1	21.50
		12	7	21.03		3	21.50	21.09		1	21.50
		12	13	21.02		3	21.50	21.03		1	21.50
		25	0	21.05		3	21.50	21.11		1	21.50

LTE Band 30 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710 2310 MHz		MPR	Tune-up Limit	27710 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0	17.40		0	17.75	18.91		0	19.00
		1	25	17.46		0	17.75	18.94		0	19.00
		1	49	17.45		0	17.75	18.90		0	19.00
		25	0	17.42		0	17.75	18.70		0	19.00
		25	12	17.45		0	17.75	18.80		0	19.00
		25	25	17.40		0	17.75	18.75		0	19.00
	16QAM	50	0	17.51		0	17.75	18.88		0	19.00
		1	0	17.75		0	17.75	18.95		0	19.00
		1	25	17.64		0	17.75	18.98		0	19.00
		1	49	17.54		0	17.75	18.74		0	19.00
		25	0	17.54		0	17.75	19.00		0	19.00
		25	12	17.52		0	17.75	18.93		0	19.00
	64QAM	25	25	17.58		0	17.75	18.96		0	19.00
		50	0	17.55		0	17.75	18.95		0	19.00
		1	0	17.51		0	17.75	18.88		0	19.00
		1	25	17.73		0	17.75	18.91		0	19.00
		1	49	17.74		0	17.75	18.86		0	19.00
		25	0	17.37		0	17.75	18.93		0	19.00
5 MHz	QPSK	25	12	17.37		0	17.75	18.93		0	19.00
		25	25	17.40		0	17.75	18.88		0	19.00
		50	0	17.33		0	17.75	18.83		0	19.00
	16QAM	1	0	17.45		0	17.75	18.67		0	19.00
		1	12	17.38		0	17.75	18.70		0	19.00
		1	24	17.49		0	17.75	18.66		0	19.00
		12	0	17.33		0	17.75	18.73		0	19.00
		12	7	17.34		0	17.75	18.66		0	19.00
		12	13	17.41		0	17.75	18.69		0	19.00
	64QAM	25	0	17.35		0	17.75	18.64		0	19.00
		1	0	17.51		0	17.75	18.91		0	19.00
		1	12	17.39		0	17.75	18.93		0	19.00
		1	24	17.42		0	17.75	19.00		0	19.00
		12	0	17.35		0	17.75	18.75		0	19.00
		12	7	17.35		0	17.75	18.68		0	19.00
	16QAM	12	13	17.41		0	17.75	18.71		0	19.00
		25	0	17.32		0	17.75	18.70		0	19.00
	64QAM	1	0	17.73		0	17.75	18.64		0	19.00
		1	12	17.72		0	17.75	18.66		0	19.00
		1	24	17.27		0	17.75	18.62		0	19.00
		12	0	17.35		0	17.75	18.76		0	19.00
	64QAM	12	7	17.35		0	17.75	18.72		0	19.00
		12	13	17.38		0	17.75	18.82		0	19.00
		25	0	17.27		0	17.75	18.66		0	19.00

LTE Band 41 Power Class 3 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	25.30	25.10	25.30	25.10	24.96	0	25.70	23.10	23.18	23.09	23.00	23.14	0	23.25
		1	49	25.30	25.19	25.30	25.19	24.96	0	25.70	23.20	23.23	23.25	23.07	23.19	0	23.25
		1	99	25.20	25.10	25.30	25.17	24.98	0	25.70	23.11	23.16	23.13	23.00	23.15	0	23.25
		50	0	24.50	24.10	24.33	24.10	23.90	1	24.70	23.09	23.16	23.06	23.12	23.15	0	23.25
		50	24	24.52	24.21	24.34	24.18	23.97	1	24.70	23.25	23.20	23.23	23.12	23.09	0	23.25
		50	50	24.48	24.20	24.31	24.11	23.93	1	24.70	23.25	23.19	23.21	23.00	23.00	0	23.25
		100	0	24.20	24.20	24.29	24.15	23.95	1	24.70	23.20	23.20	23.22	23.07	23.10	0	23.25
	16QAM	1	0	24.69	24.36	24.47	24.41	24.10	1	24.70	23.19	23.22	23.13	23.12	23.07	0	23.25
		1	49	24.65	24.33	24.49	24.33	23.97	1	24.70	23.15	23.12	23.08	23.10	23.20	0	23.25
		1	99	24.67	24.40	24.42	24.28	23.96	1	24.70	23.13	23.18	23.06	23.24	23.08	0	23.25
		50	0	23.64	23.35	23.41	23.25	22.97	2	23.70	23.10	23.05	23.08	23.14	23.18	0	23.25
		50	24	23.54	23.29	23.37	23.24	22.96	2	23.70	23.11	23.23	23.21	23.13	23.23	0	23.25
		50	50	23.50	23.31	23.37	23.18	22.92	2	23.70	23.21	23.23	23.16	23.19	23.22	0	23.25
		100	0	23.51	23.26	23.35	23.22	22.95	2	23.70	23.22	23.14	23.06	23.08	23.09	0	23.25
	64QAM	1	0	23.52	23.57	23.32	23.21	23.29	2	23.70	23.17	23.21	23.09	23.25	23.07	0	23.25
		1	49	23.41	23.41	23.28	23.17	23.30	2	23.70	23.20	23.08	23.07	23.15	23.22	0	23.25
		1	99	23.53	23.46	23.20	23.29	23.22	2	23.70	23.16	23.13	23.12	23.15	23.19	0	23.25
		50	0	22.12	22.03	21.99	21.83	21.83	3	22.70	22.66	22.64	22.65	22.50	22.61	0.55	22.70
		50	24	22.07	21.97	21.97	21.79	21.89	3	22.70	22.57	22.08	22.68	22.68	22.59	0.55	22.70
		50	50	22.09	21.98	21.97	21.83	21.84	3	22.70	22.69	22.15	22.60	22.69	22.55	0.55	22.70
		100	0	22.04	21.94	21.94	21.76	21.85	3	22.70	22.28	22.63	22.42	22.01	22.23	0.55	22.70
15 MHz	QPSK	1	0	25.56	25.28	25.33	25.20	24.94	0	25.70	23.06	23.15	23.13	23.25	23.06	0	23.25
		1	37	25.53	25.26	25.30	25.19	24.98	0	25.70	23.07	23.09	23.11	23.25	23.17	0	23.25
		1	74	25.42	25.26	25.21	25.11	24.93	0	25.70	23.10	23.21	23.19	23.06	23.10	0	23.25
		36	0	24.62	24.32	24.32	24.18	23.98	1	24.70	23.14	23.14	23.24	23.23	23.13	0	23.25
		36	20	24.55	24.27	24.31	24.17	23.99	1	24.70	23.05	23.16	23.23	23.23	23.22	0	23.25
		36	39	24.50	24.27	24.30	24.10	24.00	1	24.70	23.10	23.09	23.10	23.10	23.19	0	23.25
		75	0	24.49	24.22	24.28	24.14	23.96	1	24.70	23.06	23.14	23.08	23.15	23.13	0	23.25
	16QAM	1	0	24.59	24.26	24.29	24.22	23.88	1	24.70	23.18	23.15	23.15	23.09	23.25	0	23.25
		1	37	24.52	24.19	24.25	24.21	23.89	1	24.70	23.21	23.22	23.10	23.14	23.12	0	23.25
		1	74	24.43	24.18	24.21	24.07	23.81	1	24.70	23.06	23.16	23.18	23.14	23.09	0	23.25
		36	0	23.60	23.32	23.37	23.21	22.97	2	23.70	23.07	23.08	23.21	23.19	23.09	0	23.25
		36	20	23.55	23.27	23.38	23.23	22.98	2	23.70	23.06	23.09	23.23	23.18	23.16	0	23.25
		36	39	23.51	23.27	23.35	23.16	22.98	2	23.70	23.17	23.07	23.06	23.18	23.08	0	23.25
		75	0	23.51	23.23	23.35	23.20	22.95	2	23.70	23.23	23.16	23.20	23.11	23.13	0	23.25
	64QAM	1	0	23.25	23.11	23.15	23.24	23.21	2	23.70	23.15	23.12	23.15	23.12	23.22	0	23.25
		1	37	23.20	23.18	23.24	23.19	23.18	2	23.70	23.19	23.21	23.21	23.07	23.21	0	23.25
		1	74	23.24	23.22	23.27	23.25	23.22	2	23.70	23.12	23.17	23.24	23.09	23.06	0	23.25
		36	0	21.98	21.97	21.95	21.76	21.70	3	22.70	22.70	22.68	22.62	22.59	22.39	0.55	22.70
		36	20	21.99	21.91	21.98	21.75	21.79	3	22.70	22.45	22.63	22.64	22.40	22.29	0.55	22.70
		36	39	22.01	21.92	21.98	21.76	21.72	3	22.70	22.61	22.67	22.56	22.23	22.65	0.55	22.70
		75	0	21.95	21.87	21.94	21.87	21.74	3	22.70	22.56	22.59	22.27	22.61	22.66	0.55	22.70
10 MHz	QPSK	1	0	25.57	25.31	25.37	25.21	24.99	0	25.70	23.13	23.08	23.06	23.09	23.13	0	23.25
		1	25	25.49	25.24	25.30	25.15	24.93	0	25.70	23.07	23.11	23.12	23.18	23.11	0	23.25
		1	49	25.49	25.28	25.30	25.08	24.91	0	25.70	23.23	23.22	23.22	23.18	23.05	0	23.25
		25	0	24.60	24.23	24.33	24.17	23.93	1	24.70	23.13	23.05	23.14	23.23	23.12	0	23.25
		25	12	24.51	24.23	24.35	24.16	23.92	1	24.70	23.23	23.07	23.17	23.13	23.20	0	23.25
		25	25	24.50	24.25	24.34	24.12	23.94	1	24.70	23.10	23.06	23.06	23.14	23.14	0	23.25
		50	0	24.51	24.23	24.35	24.17	23.93	1	24.70	23.16	23.17	23.24	23.20	23.07	0	23.25
	16QAM	1	0	24.66	24.27	24.41	24.30	23.86	1	24.70	23.12	23.06	23.17	23.24	23.11	0	23.25
		1	25	24.57	24.17	24.36	24.28	23.90	1	24.70	23.24	23.10	23.20	23.17	23.23	0	23.25
		1	49	24.58	24.21	24.34	24.19	23.85	1	24.70	23.13	23.13	23.19	23.05	23.18	0	23.25
		25	0	23.60	23.31	23.38	23.25	22.93	2	23.70	23.06	23.13	23.21	23.12	23.20	0	23.25
		25	12	23.57	23.30	23.35	23.24	22.98	2	23.70	23.22	23.11	23.21	23.05	23.17	0	23.25
		25	25	23.56	23.32	23.34	23.19	23.03	2	23.70	23.06	23.21	23.21	23.21	23.09	0	23.25
		50	0	23.57	23.31	23.34	23.21	23.02	2	23.70	23.18	23.14	23.15	23.13	23.24	0	23.25
	64QAM	1	0	23.19	23.28	23.11	23.18	23.11	2	23.70	23.08	23.22	23.19	23.24	23.06	0	23.25
		1	25	23.20	23.21	23.29	23.15	23.22	2	23.70	23.09	23.05	23.16	23.07	23.17	0	23.25
		1	49	23.27	23.27	23.30	23.25	23.13	2	23.70	23.20	23.24	23.10	23.18	23.10	0	23.25
		25	0	21.93	21.86	21.90	21.72	21.81	3	22.70	22.62	22.62	22.49	22.47	22.49	0.55	22.70
		25	12	21.91	21.84	21.89	21.97	21.79	3	22.70	22.50	22.64	22.46	22.58	22.48	0.55	22.70
		25	25	21.91	21.88	21.90	21.76	21.73	3	22.70	22.49	22.53	22.46	22.58	22.57	0.55	22.70
		50	0	21.93	21.86	21.91	22.02	21.81	3	22.70	22.59	22.46	22.50	22.52	22.55	0.55	22.70

LTE Band 41 Power Class 3 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	25.61	25.22	25.28	25.17	24.93	0	25.70	23.14	23.20	23.14	23.21	23.23	0	23.25
		1	12	25.48	25.22	25.25	25.14	24.94	0	25.70	23.11	23.14	23.24	23.22	23.22	0	23.25
		1	24	25.51	25.20	25.28	25.14	24.93	0	25.70	23.12	23.19	23.22	23.11	23.15	0	23.25
		12	0	24.42	24.18	24.20	24.12	23.85	1	24.70	23.07	23.22	23.18	23.06	23.12	0	23.25
		12	7	24.46	24.18	24.19	24.10	23.85	1	24.70	23.06	23.05	23.20	23.23	23.16	0	23.25
		12	13	24.46	24.19	24.18	24.09	23.86	1	24.70	23.17	23.11	23.12	23.20	23.14	0	23.25
		25	0	24.45	24.19	24.20	24.10	23.86	1	24.70	23.20	23.22	23.23	23.17	23.24	0	23.25
	16QAM	1	0	24.65	24.27	24.44	24.20	24.00	1	24.70	23.16	23.21	23.13	23.19	23.23	0	23.25
		1	12	24.57	24.22	24.38	24.16	23.95	1	24.70	23.16	23.20	23.11	23.15	23.07	0	23.25
		1	24	24.55	24.32	24.41	24.12	23.96	1	24.70	23.19	23.22	23.23	23.15	23.18	0	23.25
		12	0	23.46	23.14	23.18	23.03	22.86	2	23.70	23.09	23.13	23.11	23.17	23.25	0	23.25
		12	7	23.41	23.13	23.16	23.05	22.84	2	23.70	23.25	23.07	23.10	23.07	23.17	0	23.25
		12	13	23.38	23.13	23.16	23.04	22.82	2	23.70	23.23	23.06	23.12	23.11	23.17	0	23.25
		25	0	23.37	23.14	23.15	23.03	22.83	2	23.70	23.17	23.14	23.08	23.18	23.05	0	23.25
	64QAM	1	0	23.02	23.07	23.07	23.07	22.97	2	23.70	23.12	23.17	23.19	23.22	23.11	0	23.25
		1	12	23.02	23.02	23.04	23.07	23.10	2	23.70	23.07	23.24	23.24	23.05	23.20	0	23.25
		1	24	23.04	22.94	23.06	23.10	23.02	2	23.70	23.23	23.08	23.20	23.24	23.08	0	23.25
		12	0	22.51	22.46	22.53	22.27	22.27	3	22.70	22.49	22.60	22.60	22.57	22.61	0.55	22.70
		12	7	22.47	22.43	22.51	22.24	22.32	3	22.70	22.45	22.62	22.46	22.54	22.61	0.55	22.70
		12	13	22.48	22.44	22.49	22.22	22.32	3	22.70	22.61	22.55	22.53	22.65	22.63	0.55	22.70
		25	0	21.94	21.95	21.91	21.92	21.82	3	22.70	22.58	22.55	22.61	22.60	22.50	0.55	22.70

LTE Band 41 Power Class 3 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	21.39	21.47	21.40	21.34	21.35	0	21.50	23.21	23.17	23.18	23.16	23.07	0	23.25
		1	49	21.49	21.50	21.40	21.45	21.44	0	21.50	23.25	23.23	23.20	23.21	23.19	0	23.25
		1	99	21.34	21.41	21.34	21.37	21.37	0	21.50	23.19	23.12	23.18	23.19	23.13	0	23.25
		50	0	21.42	21.40	21.45	21.31	21.35	0	21.50	22.08	22.18	22.16	22.22	22.20	1	22.25
		50	24	21.46	21.46	21.48	21.49	21.50	0	21.50	22.20	22.22	22.21	22.25	22.22	1	22.25
		50	50	21.42	21.34	21.46	21.46	21.47	0	21.50	22.16	22.09	22.19	22.17	22.11	1	22.25
		100	0	21.42	21.33	21.45	21.32	21.45	0	21.50	22.09	22.11	22.18	22.09	22.10	1	22.25
		1	0	21.39	21.34	21.41	21.42	21.48	0	21.50	22.14	22.12	22.22	22.09	22.23	1	22.25
	16QAM	1	49	21.30	21.40	21.37	21.48	21.37	0	21.50	22.07	22.20	22.07	22.13	22.14	1	22.25
		1	99	21.31	21.33	21.34	21.45	21.43	0	21.50	22.21	22.11	22.20	22.08	22.13	1	22.25
		50	0	21.24	21.05	21.05	21.21	21.17	0.25	21.25	21.19	21.17	21.13	21.17	21.17	2	21.25
		50	24	21.24	21.13	21.07	21.19	21.08	0.25	21.25	21.06	21.19	21.24	21.14	21.13	2	21.25
		50	50	21.25	21.17	21.14	21.09	21.10	0.25	21.25	21.05	21.14	21.15	21.15	21.14	2	21.25
		100	0	21.24	21.15	21.09	21.11	21.19	0.25	21.25	21.18	21.06	21.13	21.20	21.18	2	21.25
		1	0	21.09	21.06	21.08	21.17	21.19	0.25	21.25	21.19	21.21	21.23	21.11	21.14	2	21.25
		1	49	21.09	21.23	21.23	21.15	21.24	0.25	21.25	21.18	21.15	21.19	21.08	21.23	2	21.25
	64QAM	1	99	21.06	21.12	21.23	21.07	21.22	0.25	21.25	21.12	21.18	21.15	21.05	21.20	2	21.25
		50	0	20.23	20.18	20.20	20.23	20.25	1.25	20.25	20.12	20.07	20.15	20.11	20.14	3	20.25
		50	24	20.19	20.17	20.22	20.21	20.14	1.25	20.25	20.09	20.21	20.17	20.10	20.22	3	20.25
		50	50	20.07	20.22	20.20	20.14	20.17	1.25	20.25	20.15	20.10	20.09	20.18	20.25	3	20.25
		100	0	20.10	20.12	20.22	20.23	20.10	1.25	20.25	20.09	20.19	20.24	20.05	20.19	3	20.25
15 MHz	QPSK	1	0	21.48	21.40	21.39	21.42	21.48	0	21.50	23.17	23.20	23.12	23.22	23.14	0	23.25
		1	37	21.42	21.45	21.45	21.31	21.33	0	21.50	23.15	23.24	23.13	23.21	23.06	0	23.25
		1	74	21.42	21.32	21.31	21.50	21.36	0	21.50	23.22	23.17	23.07	23.11	23.15	0	23.25
		36	0	21.43	21.40	21.33	21.41	21.40	0	21.50	22.15	22.22	22.18	22.15	22.24	1	22.25
		36	20	21.44	21.41	21.34	21.42	21.33	0	21.50	22.06	22.12	22.23	22.22	22.14	1	22.25
		36	39	21.33	21.33	21.47	21.44	21.40	0	21.50	22.22	22.17	22.07	22.06	22.17	1	22.25
		75	0	21.42	21.38	21.40	21.41	21.36	0	21.50	22.05	22.09	22.07	22.10	22.12	1	22.25
		1	0	21.44	21.32	21.33	21.39	21.43	0	21.50	22.14	22.12	22.07	22.24	22.20	1	22.25
	16QAM	1	37	21.49	21.48	21.48	21.45	21.35	0	21.50	22.07	22.11	22.13	22.09	22.07	1	22.25
		1	74	21.36	21.42	21.47	21.35	21.32	0	21.50	22.23	22.09	22.10	22.17	22.11	1	22.25
		36	0	21.24	21.10	21.15	21.06	21.10	0.25	21.25	21.11	21.22	21.11	21.10	21.08	2	21.25
		36	20	21.08	21.10	21.23	21.18	21.22	0.25	21.25	21.24	21.13	21.14	21.05	21.07	2	21.25
		36	39	21.05	21.19	21.14	21.22	21.22	0.25	21.25	21.13	21.16	21.16	21.19	21.16	2	21.25
		75	0	21.20	21.06	21.16	21.07	21.21	0.25	21.25	21.10	21.17	21.12	21.24	21.17	2	21.25
		1	0	21.21	21.17	21.23	21.17	21.08	0.25	21.25	21.16	21.06	21.24	21.09	21.21	2	21.25
		1	37	21.17	21.06	21.13	21.21	21.14	0.25	21.25	21.09	21.13	21.13	21.21	21.10	2	21.25
	64QAM	1	74	21.06	21.11	21.23	21.14	21.12	0.25	21.25	21.12	21.11	21.10	21.25	21.22	2	21.25
		36	0	20.09	20.14	20.18	20.21	20.19	1.25	20.25	20.18	20.08	20.21	20.10	20.12	3	20.25
		36	20	20.12	20.20	20.20	20.21	20.09	1.25	20.25	20.06	20.09	20.05	20.17	20.06	3	20.25
		36	39	20.08	20.24	20.24	20.08	20.21	1.25	20.25	20.20	20.13	20.08	20.08	20.20	3	20.25
		75	0	20.16	20.13	20.25	20.10	20.10	1.25	20.25	20.09	20.11	20.15	20.06	20.14	3	20.25
10 MHz	QPSK	1	0	21.31	21.39	21.48	21.48	21.39	0	21.50	23.15	23.06	23.07	23.13	23.13	0	23.25
		1	25	21.39	21.38	21.39	21.39	21.31	0	21.50	23.13	23.13	23.09	23.10	23.05	0	23.25
		1	49	21.31	21.31	21.31	21.40	21.33	0	21.50	23.17	23.18	23.13	23.21	23.20	0	23.25
		25	0	21.42	21.41	21.30	21.42	21.38	0	21.50	22.15	22.06	22.24	22.10	22.19	1	22.25
		25	12	21.36	21.49	21.37	21.45	21.38	0	21.50	22.22	22.14	22.07	22.08	22.21	1	22.25
		25	25	21.44	21.40	21.40	21.37	21.45	0	21.50	22.06	22.14	22.14	22.08	22.17	1	22.25
		50	0	21.36	21.50	21.33	21.34	21.44	0	21.50	22.16	22.15	22.06	22.24	22.05	1	22.25
		1	0	21.39	21.33	21.47	21.35	21.31	0	21.50	22.20	22.17	22.20	22.22	22.15	1	22.25
	16QAM	1	25	21.42	21.49	21.50	21.42	21.34	0	21.50	22.18	22.09	22.22	22.21	22.09	1	22.25
		1	49	21.42	21.39	21.43	21.34	21.45	0	21.50	22.17	22.23	22.06	22.14	22.14	1	22.25
		25	0	21.20	21.22	21.14	21.19	21.11	0.25	21.25	21.17	21.17	21.11	21.18	21.07	2	21.25
		25	12	21.15	21.14	21.06	21.17	21.18	0.25	21.25	21.08	21.13	21.11	21.16	21.09	2	21.25
		25	25	21.10	21.19	21.07	21.25	21.09	0.25	21.25	21.22	21.20	21.21	21.14	21.06	2	21.25
		50	0	21.11	21.21	21.06	21.15	21.13	0.25	21.25	21.08	21.21	21.10	21.18	21.09	2	21.25
		1	0	21.24	21.23	21.11	21.12	21.17	0.25	21.25	21.19	21.19	21.07	21.18	21.14	2	21.25
		1	25	21.20	21.18	21.15	21.05	21.10	0.25	21.25	21.21	21.09	21.12	21.09	21.13	2	21.25
	64QAM	1	49	21.22	21.25	21.09	21.22	21.09	0.25	21.25	21.20	21.18	21.16	21.05	21.16	2	21.25
		25	0	20.25	20.19	20.15	20.18	20.23	1.25	20.25	20.17	20.15	20.21	20.08	20.21	3	20.25
		25	12	20.10	20.09	20.11	20.17	20.14	1.25	20.25	20.22	20.05	20.08	20.19	20.17	3	20.25
		25	25	20.17	20.14	20.18	20.12	20.19	1.25	20.25	20.14	20.18	20.11	20.16	20.18	3	20.25
		50	0	20.18	20.17	20.08	20.09	20.06	1.25	20.25	20.11	20.11	20.10	20.08	20.18	3	20.25

LTE Band 41 Power Class 3 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	21.40	21.30	21.38	21.36	21.39	0	21.50	23.19	23.21	23.07	23.09	23.23	0	23.25
		1	12	21.44	21.40	21.36	21.40	21.33	0	21.50	23.17	23.19	23.11	23.10	23.23	0	23.25
		1	24	21.33	21.32	21.37	21.42	21.33	0	21.50	23.18	23.11	23.19	23.06	23.14	0	23.25
		12	0	21.31	21.48	21.36	21.38	21.41	0	21.50	22.20	22.18	22.13	22.07	22.14	1	22.25
		12	7	21.42	21.48	21.33	21.39	21.41	0	21.50	22.20	22.21	22.11	22.25	22.20	1	22.25
		12	13	21.33	21.49	21.49	21.47	21.43	0	21.50	22.05	22.11	22.16	22.12	22.21	1	22.25
		25	0	21.49	21.32	21.39	21.39	21.39	0	21.50	22.20	22.17	22.07	22.23	22.10	1	22.25
	16QAM	1	0	21.46	21.47	21.40	21.39	21.34	0	21.50	22.10	22.20	22.11	22.22	22.06	1	22.25
		1	12	21.44	21.41	21.40	21.40	21.42	0	21.50	22.11	22.08	22.14	22.12	22.15	1	22.25
		1	24	21.37	21.40	21.38	21.49	21.46	0	21.50	22.12	22.25	22.10	22.05	22.23	1	22.25
		12	0	21.21	21.14	21.23	21.15	21.06	0.25	21.25	21.23	21.07	21.20	21.16	21.08	2	21.25
		12	7	21.19	21.14	21.12	21.08	21.08	0.25	21.25	21.19	21.07	21.15	21.10	21.23	2	21.25
		12	13	21.06	21.22	21.14	21.21	21.18	0.25	21.25	21.08	21.06	21.18	21.17	21.06	2	21.25
		25	0	21.18	21.07	21.18	21.06	21.14	0.25	21.25	21.22	21.18	21.23	21.10	21.12	2	21.25
	64QAM	1	0	21.23	21.24	21.06	21.21	21.10	0.25	21.25	21.25	21.20	21.11	21.20	21.23	2	21.25
		1	12	21.22	21.14	21.20	21.11	21.07	0.25	21.25	21.16	21.15	21.14	21.25	21.22	2	21.25
		1	24	21.24	21.14	21.18	21.12	21.17	0.25	21.25	21.16	21.14	21.20	21.13	21.19	2	21.25
		12	0	20.05	20.06	20.23	20.08	20.25	1.25	20.25	20.09	20.23	20.11	20.13	20.20	3	20.25
		12	7	20.21	20.18	20.19	20.09	20.17	1.25	20.25	20.09	20.10	20.23	20.22	20.08	3	20.25
		12	13	20.17	20.06	20.14	20.25	20.09	1.25	20.25	20.06	20.06	20.09	20.07	20.07	3	20.25
		25	0	20.13	20.06	20.15	20.09	20.12	1.25	20.25	20.10	20.05	20.13	20.10	20.17	3	20.25

LTE Band 41 Power Class 3 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.78	25.20	25.22	25.00	24.92	0	25.50	21.63	21.81	21.88	21.32	21.31	0	22.25
		1	49	24.72	25.28	25.49	24.87	24.88	0	25.50	21.80	21.84	21.90	21.80	21.80	0	22.25
		1	99	25.01	25.36	25.33	24.77	25.03	0	25.50	21.19	21.79	21.72	21.30	21.20	0	22.25
		50	0	23.73	24.21	24.19	23.95	23.93	1	24.50	21.53	21.81	21.75	21.20	21.25	0	22.25
		50	24	23.76	24.28	24.21	23.88	23.90	1	24.50	21.90	21.84	21.70	21.80	21.80	0	22.25
		50	50	23.89	24.32	24.21	23.77	23.98	1	24.50	21.60	21.80	21.68	21.20	21.35	0	22.25
		100	0	23.66	24.27	24.20	23.85	23.87	1	24.50	21.64	21.70	21.70	21.22	21.28	0	22.25
		1	0	23.92	24.31	24.31	24.12	23.93	1	24.50	21.66	21.89	21.96	21.47	21.45	0	22.25
	16QAM	1	49	23.82	24.31	24.31	23.96	23.91	1	24.50	21.61	21.92	21.70	21.32	21.40	0	22.25
		1	99	24.06	24.32	24.35	23.84	24.07	1	24.50	21.31	21.93	21.77	21.58	21.54	0	22.25
		50	0	22.71	23.21	23.20	22.97	22.94	2	23.50	21.59	21.84	21.78	21.30	21.32	0	22.25
		50	24	22.72	23.32	23.25	22.89	22.90	2	23.50	21.50	21.88	21.73	21.23	21.36	0	22.25
		50	50	22.85	23.32	23.26	22.78	23.01	2	23.50	21.69	21.84	21.71	21.19	21.40	0	22.25
		100	0	22.69	23.30	23.24	22.88	22.89	2	23.50	21.58	21.85	21.73	21.25	21.30	0	22.25
		1	0	22.79	22.38	22.48	22.11	22.22	2	23.50	21.53	22.03	21.89	21.59	21.68	0	22.25
		1	49	22.45	22.43	22.28	22.04	22.36	2	23.50	21.54	22.04	21.70	21.40	21.75	0	22.25
	64QAM	1	99	22.68	22.41	22.27	22.01	22.45	2	23.50	21.53	21.96	21.74	21.35	21.72	0	22.25
		50	0	21.70	21.92	22.02	21.66	21.77	3	22.50	21.73	21.73	21.65	21.28	21.40	0	22.25
		50	24	21.63	21.95	21.95	21.61	21.86	3	22.50	21.68	21.73	21.62	21.25	21.44	0	22.25
		50	50	21.71	21.91	21.88	21.65	21.89	3	22.50	21.85	21.69	21.60	21.32	21.50	0	22.25
		100	0	21.59	21.91	21.94	21.60	21.81	3	22.50	21.64	21.70	21.60	21.42	21.40	0	22.25
15 MHz	QPSK	1	0	24.80	25.20	25.17	24.93	24.92	0	25.50	21.64	21.73	21.79	21.30	21.31	0	22.25
		1	37	24.80	25.28	25.22	24.85	24.93	0	25.50	21.50	21.81	21.73	21.55	21.36	0	22.25
		1	74	25.00	25.32	25.27	24.72	24.93	0	25.50	21.57	21.73	21.73	21.65	21.41	0	22.25
		36	0	23.73	24.19	24.18	23.90	23.95	1	24.50	21.53	21.77	21.76	21.25	21.30	0	22.25
		36	20	23.79	24.25	24.26	23.86	23.95	1	24.50	21.53	21.84	21.74	21.25	21.33	0	22.25
		36	39	23.84	24.25	24.24	23.77	23.99	1	24.50	21.58	21.80	21.72	21.54	21.38	0	22.25
		75	0	23.78	24.25	24.23	23.84	23.92	1	24.50	21.67	21.80	21.72	21.50	21.31	0	22.25
		1	0	23.82	24.07	24.10	23.90	23.80	1	24.50	21.63	21.62	21.78	21.30	21.54	0	22.25
	16QAM	1	37	23.76	24.14	24.13	23.75	23.80	1	24.50	21.56	21.70	21.69	21.67	21.65	0	22.25
		1	74	23.92	24.16	24.16	23.61	23.79	1	24.50	21.53	21.60	21.67	21.61	21.69	0	22.25
		36	0	22.76	23.21	23.18	22.93	22.98	2	23.50	21.58	21.80	21.80	21.30	21.29	0	22.25
		36	20	22.79	23.26	23.31	22.95	22.96	2	23.50	21.67	21.87	21.78	21.29	21.36	0	22.25
		36	39	22.88	23.29	23.30	22.85	22.99	2	23.50	21.69	21.84	21.75	21.25	21.42	0	22.25
		75	0	22.76	23.28	23.29	22.91	22.93	2	23.50	21.52	21.84	21.76	21.25	21.34	0	22.25
		1	0	22.52	21.93	22.26	21.82	21.80	2	23.50	21.66	21.86	21.94	21.48	21.54	0	22.25
		1	37	22.21	22.02	22.15	21.71	21.97	2	23.50	21.51	21.91	21.86	21.47	21.60	0	22.25
	64QAM	1	74	22.36	21.94	21.99	21.67	21.95	2	23.50	21.67	21.83	21.86	21.38	21.61	0	22.25
		36	0	21.36	21.60	21.76	21.32	21.45	3	22.50	21.73	21.75	21.64	21.27	21.41	0	22.25
		36	20	21.35	21.65	21.72	21.29	21.56	3	22.50	21.77	21.82	21.64	21.60	21.49	0	22.25
		36	39	21.40	21.62	21.62	21.32	21.60	3	22.50	21.93	21.78	21.60	21.53	21.51	0	22.25
		75	0	21.32	21.61	21.68	21.28	21.52	3	22.50	21.75	21.76	21.56	21.66	21.42	0	22.25
10 MHz	QPSK	1	0	24.77	25.23	25.16	24.88	24.91	0	25.50	21.68	21.85	21.83	21.28	21.37	0	22.25
		1	25	24.80	25.32	25.20	24.80	24.91	0	25.50	21.60	21.85	21.76	21.62	21.33	0	22.25
		1	49	24.99	25.38	25.22	24.73	25.02	0	25.50	21.69	21.83	21.77	21.60	21.38	0	22.25
		25	0	23.77	24.30	24.16	23.88	23.94	1	24.50	21.65	21.88	21.80	21.26	21.36	0	22.25
		25	12	23.83	24.31	24.22	23.84	23.92	1	24.50	21.66	21.85	21.77	21.50	21.34	0	22.25
		25	25	23.94	24.29	24.22	23.78	23.99	1	24.50	21.65	21.84	21.77	21.54	21.39	0	22.25
		50	0	23.84	24.30	24.23	23.85	23.93	1	24.50	21.53	21.85	21.78	21.51	21.36	0	22.25
		1	0	23.87	24.09	24.09	23.90	23.83	1	24.50	21.60	21.79	21.80	21.37	21.25	0	22.25
	16QAM	1	25	23.86	24.19	24.11	23.82	23.79	1	24.50	21.59	21.74	21.78	21.28	21.57	0	22.25
		1	49	23.99	24.20	24.17	23.78	23.89	1	24.50	21.59	21.74	21.75	21.60	21.28	0	22.25
		25	0	22.80	23.30	23.19	22.99	22.97	2	23.50	21.66	21.90	21.83	21.31	21.39	0	22.25
		25	12	22.82	23.33	23.30	22.95	22.95	2	23.50	21.59	21.87	21.81	21.27	21.38	0	22.25
		25	25	22.92	23.31	23.29	22.86	22.99	2	23.50	21.69	21.88	21.81	21.26	21.43	0	22.25
		50	0	22.80	23.35	23.30	22.93	22.95	2	23.50	21.52	21.89	21.83	21.27	21.41	0	22.25
		1	0	22.44	22.02	22.13	21.72	21.85	2	23.50	21.54	21.94	21.91	21.44	21.63	0	22.25
		1	25	22.31	22.05	22.11	21.59	21.93	2	23.50	21.52	21.93	21.86	21.40	21.54	0	22.25
	64QAM	1	49	22.38	22.05	22.04	21.69	21.96	2	23.50	21.68	21.90	21.86	21.36	21.66	0	22.25
		25	0	21.30	21.64	21.64	21.26	21.51	3	22.50	21.65	21.78	21.60	21.26	21.50	0	22.25
		25	12	21.32	21.58	21.63	21.24	21.56	3	22.50	21.70	21.76	21.58	21.53	21.50	0	22.25
		25	25	21.39	21.58	21.56	21.28	21.54	3	22.50	21.85	21.75	21.58	21.62	21.53	0	22.25
		50	0	21.36	21.59	21.66	21.25	21.56	3	22.50	21.70	21.78	21.60	21.68	21.50	0	22.25

LTE Band 41 Power Class 3 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	24.66	25.25	25.15	24.85	24.92	0	25.50	21.70	21.81	21.72	21.69	21.34	0	22.25
		1	12	24.70	25.28	25.21	24.81	24.90	0	25.50	21.64	21.78	21.66	21.52	21.30	0	22.25
		1	24	24.85	25.30	25.24	24.70	24.97	0	25.50	21.69	21.78	21.68	21.65	21.39	0	22.25
		12	0	23.61	24.18	24.07	23.74	23.86	1	24.50	21.61	21.72	21.58	21.57	21.26	0	22.25
		12	7	23.66	24.22	24.10	23.76	23.84	1	24.50	21.66	21.70	21.57	21.57	21.70	0	22.25
		12	13	23.72	24.21	24.10	23.75	23.92	1	24.50	21.70	21.69	21.56	21.53	21.66	0	22.25
		25	0	23.69	24.24	24.12	23.75	23.86	1	24.50	21.61	21.73	21.59	21.60	21.26	0	22.25
	16QAM	1	0	23.68	24.19	24.26	23.82	23.88	1	24.50	21.60	21.78	21.83	21.68	21.34	0	22.25
		1	12	23.64	24.28	24.25	23.76	23.82	1	24.50	21.66	21.78	21.81	21.54	21.27	0	22.25
		1	24	23.78	24.25	24.32	23.68	23.97	1	24.50	21.67	21.76	21.83	21.59	21.41	0	22.25
		12	0	22.58	23.16	23.04	22.80	22.83	2	23.50	21.53	21.69	21.61	21.60	21.26	0	22.25
		12	7	22.62	23.20	23.10	22.71	22.83	2	23.50	21.70	21.70	21.57	21.59	21.55	0	22.25
		12	13	22.63	23.19	23.09	22.74	22.89	2	23.50	21.53	21.69	21.57	21.58	21.53	0	22.25
		25	0	22.58	23.21	23.08	22.71	22.85	2	23.50	21.70	21.71	21.56	21.60	21.60	0	22.25
	64QAM	1	0	22.26	22.09	22.21	21.73	21.98	2	23.50	21.58	22.05	21.86	21.49	21.69	0	22.25
		1	12	22.24	22.03	22.04	21.67	21.91	2	23.50	21.53	22.02	21.88	21.37	21.65	0	22.25
		1	24	22.38	22.11	22.10	21.70	22.04	2	23.50	21.58	22.02	21.89	21.44	21.74	0	22.25
		12	0	21.11	22.11	22.28	21.85	21.91	3	22.50	21.55	21.59	21.44	21.59	21.25	0	22.25
		12	7	21.13	22.09	22.20	21.80	21.95	3	22.50	21.61	21.58	21.46	21.68	21.26	0	22.25
		12	13	21.11	22.09	22.22	21.80	21.95	3	22.50	21.68	21.58	21.45	21.50	21.27	0	22.25
		25	0	21.12	21.66	21.68	21.33	21.50	3	22.50	21.61	21.62	21.48	21.53	21.29	0	22.25

LTE Band 41 Power Class 3 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	18.35	18.30	18.46	18.30	18.37	0	18.75	19.24	19.58	19.61	19.60	19.72	0	19.75
		1	49	18.45	18.34	18.50	18.45	18.40	0	18.75	19.30	19.68	19.71	19.60	19.73	0	19.75
		1	99	18.40	18.30	18.48	18.38	18.31	0	18.75	18.99	19.65	19.98	19.60	19.63	0	19.75
		50	0	18.37	18.40	18.48	18.31	18.46	0	18.75	19.11	19.56	19.40	19.40	19.68	0	19.75
		50	24	18.48	18.41	18.50	18.48	18.48	0	18.75	19.75	19.63	19.60	19.74	19.75	0	19.75
		50	50	18.37	18.40	18.45	18.45	18.35	0	18.75	19.01	19.63	19.50	19.70	19.70	0	19.75
		100	0	18.39	18.46	18.46	18.34	18.39	0	18.75	18.97	19.61	19.70	19.60	19.61	0	19.75
		1	0	18.48	18.35	18.47	18.46	18.33	0	18.75	19.25	19.68	19.62	19.62	19.74	0	19.75
	16QAM	1	49	18.48	18.33	18.36	18.33	18.47	0	18.75	19.16	19.69	19.30	19.06	19.54	0	19.75
		1	99	18.49	18.38	18.32	18.45	18.45	0	18.75	19.14	19.75	19.07	18.92	19.72	0	19.75
		50	0	18.22	18.19	18.18	18.13	18.21	0	18.75	19.32	19.57	19.59	19.62	19.69	0	19.75
		50	24	18.13	18.16	18.18	18.14	18.14	0	18.75	19.19	19.62	19.71	19.65	19.65	0	19.75
		50	50	18.10	18.08	18.23	18.09	18.19	0	18.75	19.21	19.65	19.67	19.56	19.68	0	19.75
		100	0	18.22	18.15	18.13	18.24	18.20	0	18.75	19.16	19.60	19.74	19.73	19.63	0	19.75
		1	0	18.09	18.11	18.10	18.21	18.21	0	18.75	18.98	18.99	19.09	19.11	18.96	0	19.75
		1	49	18.06	18.14	18.09	18.06	18.05	0	18.75	19.01	19.06	19.02	19.02	18.99	0	19.75
	64QAM	1	99	18.09	18.07	18.22	18.10	18.25	0	18.75	19.08	18.99	19.10	19.00	19.11	0	19.75
		50	0	18.58	18.35	18.49	18.74	18.55	0	18.75	18.68	18.70	18.59	18.74	18.60	0.25	19.50
		50	24	18.57	18.33	18.51	18.66	18.57	0	18.75	18.72	18.65	18.69	18.72	18.66	0.25	19.50
		50	50	18.70	18.41	18.58	18.58	18.57	0	18.75	18.56	18.60	18.72	18.56	18.73	0.25	19.50
		100	0	18.55	18.31	18.58	18.62	18.54	0	18.75	18.59	18.57	18.73	18.60	18.61	0.25	19.50
15 MHz	QPSK	1	0	18.47	18.40	18.46	18.44	18.60	0	18.75	19.62	19.52	19.59	19.62	19.70	0	19.75
		1	37	18.50	18.49	18.49	18.58	18.58	0	18.75	19.54	19.60	19.58	19.63	19.62	0	19.75
		1	74	18.43	18.50	18.55	18.49	18.51	0	18.75	19.65	19.50	19.63	19.62	19.60	0	19.75
		36	0	18.42	18.43	18.41	18.48	18.55	0	18.75	19.66	19.59	19.56	19.68	19.53	0	19.75
		36	20	18.50	18.52	18.44	18.51	18.51	0	18.75	19.69	19.62	19.50	19.51	19.53	0	19.75
		36	39	18.55	18.44	18.41	18.52	18.53	0	18.75	19.57	19.67	19.53	19.54	19.56	0	19.75
		75	0	18.55	18.50	18.42	18.45	18.57	0	18.75	19.59	19.51	19.67	19.59	19.63	0	19.75
		1	0	18.45	18.47	18.44	18.41	18.49	0	18.75	19.56	19.58	19.59	19.52	19.56	0	19.75
	16QAM	1	37	18.50	18.56	18.46	18.49	18.59	0	18.75	19.63	19.61	19.62	19.57	19.54	0	19.75
		1	74	18.55	18.47	18.42	18.49	18.57	0	18.75	19.56	19.70	19.57	19.66	19.59	0	19.75
		36	0	18.51	18.49	18.58	18.60	18.55	0	18.75	19.06	19.03	19.20	19.10	19.00	0	19.75
		36	20	18.40	18.55	18.54	18.51	18.48	0	18.75	19.07	19.04	19.11	19.18	19.05	0	19.75
		36	39	18.54	18.47	18.57	18.58	18.45	0	18.75	19.11	19.10	19.07	19.09	19.20	0	19.75
		75	0	18.44	18.51	18.54	18.59	18.49	0	18.75	19.13	19.06	19.19	19.04	19.18	0	19.75
		1	0	18.60	18.43	18.46	18.47	18.55	0	18.75	19.08	19.13	19.11	19.16	19.20	0	19.75
		1	37	18.59	18.57	18.45	18.56	18.44	0	18.75	19.17	19.18	19.17	19.02	19.16	0	19.75
	64QAM	1	74	18.57	18.51	18.60	18.56	18.49	0	18.75	19.02	19.18	19.03	19.18	19.14	0	19.75
		36	0	18.22	18.14	18.20	18.18	18.11	0	18.75	18.99	18.97	18.92	19.09	19.07	0.25	19.50
		36	20	18.10	18.07	18.10	18.19	18.11	0	18.75	18.98	18.94	19.04	19.07	19.09	0.25	19.50
		36	39	18.21	18.21	18.17	18.06	18.19	0	18.75	19.01	18.99	19.01	18.93	18.94	0.25	19.50
		75	0	18.05	18.20	18.13	18.17	18.15	0	18.75	18.92	18.98	18.95	18.99	19.00	0.25	19.50
10 MHz	QPSK	1	0	18.59	18.54	18.65	18.61	18.68	0	18.75	19.36	19.39	19.33	19.37	19.47	0	19.75
		1	25	18.53	18.66	18.54	18.54	18.69	0	18.75	19.32	19.46	19.34	19.33	19.49	0	19.75
		1	49	18.53	18.55	18.70	18.68	18.59	0	18.75	19.35	19.49	19.40	19.44	19.36	0	19.75
		25	0	18.59	18.50	18.62	18.67	18.65	0	18.75	19.42	19.35	19.43	19.48	19.49	0	19.75
		25	12	18.64	18.68	18.63	18.68	18.70	0	18.75	19.40	19.36	19.38	19.41	19.43	0	19.75
		25	25	18.60	18.66	18.52	18.65	18.58	0	18.75	19.42	19.31	19.35	19.38	19.48	0	19.75
		50	0	18.62	18.67	18.50	18.53	18.67	0	18.75	19.39	19.48	19.40	19.32	19.42	0	19.75
		1	0	18.64	18.58	18.67	18.52	18.63	0	18.75	19.39	19.42	19.47	19.39	19.38	0	19.75
	16QAM	1	25	18.56	18.64	18.55	18.65	18.61	0	18.75	19.48	19.44	19.36	19.44	19.47	0	19.75
		1	49	18.55	18.54	18.62	18.50	18.61	0	18.75	19.47	19.37	19.34	19.36	19.42	0	19.75
		25	0	18.61	18.64	18.66	18.65	18.50	0	18.75	18.64	18.61	18.50	18.67	18.69	0	19.75
		25	12	18.63	18.69	18.53	18.63	18.65	0	18.75	18.53	18.58	18.53	18.56	18.58	0	19.75
		25	25	18.51	18.65	18.54	18.57	18.58	0	18.75	18.68	18.69	18.55	18.54	18.55	0	19.75
		50	0	18.62	18.65	18.51	18.60	18.70	0	18.75	18.56	18.65	18.65	18.69	18.51	0	19.75
		1	0	18.50	18.54	18.57	18.68	18.66	0	18.75	18.57	18.67	18.62	18.65	18.60	0	19.75
		1	25	18.51	18.65	18.52	18.60	18.67	0	18.75	18.64	18.66	18.52	18.54	18.61	0	19.75
	64QAM	1	49	18.52	18.56	18.56	18.52	18.53	0	18.75	18.60	18.54	18.67	18.58	18.57	0	19.75
		25	0	18.07	18.08	18.12	18.13	18.13	0	18.75	17.66	17.78	17.73	17.64	17.72	0.25	19.50
		25	12	18.17	18.07	18.05	18.14	18.23	0	18.75	17.71	17.68	17.61	17.69	17.77	0.25	19.50
		25	25	18.08	18.06	18.14	18.14	18.09	0	18.75	17.75	17.67	17.65	17.71	17.79	0.25	19.50
		50	0	18.05	18.05	18.17	18.21	18.08	0	18.75	17.64	17.70	17.61	17.72	17.62	0.25	19.50

LTE Band 41 Power Class 3 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
5 MHz	QPSK	1	0	18.58	18.56	18.64	18.55	18.55	0	18.75	19.39	19.43	19.38	19.36	19.44
		1	12	18.66	18.57	18.65	18.55	18.64	0	18.75	19.38	19.36	19.48	19.47	19.47
		1	24	18.63	18.63	18.53	18.65	18.54	0	18.75	19.32	19.37	19.38	19.39	19.41
		12	0	18.63	18.58	18.61	18.68	18.70	0	18.75	19.37	19.47	19.30	19.30	19.37
		12	7	18.56	18.56	18.62	18.61	18.61	0	18.75	19.46	19.40	19.32	19.32	19.34
		12	13	18.51	18.67	18.55	18.53	18.55	0	18.75	19.33	19.44	19.33	19.31	19.36
		25	0	18.66	18.53	18.53	18.56	18.61	0	18.75	19.35	19.46	19.42	19.49	19.49
	16QAM	1	0	18.51	18.52	18.64	18.69	18.54	0	18.75	19.48	19.36	19.36	19.48	19.31
		1	12	18.54	18.60	18.66	18.68	18.52	0	18.75	19.31	19.49	19.45	19.36	19.47
		1	24	18.70	18.54	18.50	18.70	18.51	0	18.75	19.47	19.32	19.32	19.49	19.48
		12	0	18.66	18.52	18.61	18.56	18.54	0	18.75	18.61	18.53	18.64	18.55	18.56
		12	7	18.58	18.69	18.53	18.61	18.55	0	18.75	18.59	18.65	18.60	18.51	18.62
		12	13	18.55	18.63	18.69	18.66	18.55	0	18.75	18.52	18.65	18.56	18.69	18.66
		25	0	18.68	18.60	18.64	18.58	18.52	0	18.75	18.68	18.58	18.62	18.61	18.57
	64QAM	1	0	18.60	18.51	18.63	18.60	18.67	0	18.75	18.60	18.56	18.61	18.53	18.60
		1	12	18.57	18.56	18.64	18.60	18.69	0	18.75	18.61	18.59	18.54	18.68	18.54
		1	24	18.66	18.57	18.62	18.59	18.65	0	18.75	18.55	18.53	18.69	18.63	18.62
		12	0	18.20	18.06	18.06	18.11	18.10	0	18.75	17.80	17.69	17.76	17.69	17.72
		12	7	18.10	18.09	18.16	18.13	18.12	0	18.75	17.61	17.70	17.72	17.63	17.73
		12	13	18.10	18.15	18.18	18.22	18.17	0	18.75	17.76	17.79	17.75	17.73	17.68
		25	0	18.15	18.08	18.11	18.16	18.18	0	18.75	17.62	17.79	17.65	17.62	17.78

LTE Band 48 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	25.47	25.51	25.35	25.54	0	25.70	25.47	25.51	25.35	25.54	0	25.70
		1	49	25.65	25.54	25.58	25.61	0	25.70	25.65	25.54	25.58	25.61	0	25.70
		1	99	25.40	25.40	25.30	25.59	0	25.70	25.40	25.40	25.30	25.59	0	25.70
		50	0	24.46	24.25	24.25	24.36	1	24.70	24.46	24.25	24.25	24.36	1	24.70
		50	24	24.53	24.35	24.35	24.48	1	24.70	24.53	24.35	24.35	24.48	1	24.70
		50	50	24.50	24.19	24.30	24.33	1	24.70	24.50	24.19	24.30	24.33	1	24.70
	16QAM	100	0	24.62	24.28	24.35	24.44	1	24.70	24.62	24.28	24.35	24.44	1	24.70
		1	0	24.63	24.56	24.68	24.66	1	24.70	24.63	24.56	24.68	24.66	1	24.70
		1	49	24.67	24.25	24.41	24.45	1	24.70	24.67	24.25	24.41	24.45	1	24.70
		1	99	24.70	24.60	24.67	24.68	1	24.70	24.70	24.60	24.67	24.68	1	24.70
		50	0	23.42	23.23	23.29	23.33	2	23.70	23.42	23.23	23.29	23.33	2	23.70
		50	24	23.48	23.12	23.27	23.34	2	23.70	23.48	23.12	23.27	23.34	2	23.70
	64QAM	50	50	23.44	23.16	23.31	23.33	2	23.70	23.44	23.16	23.31	23.33	2	23.70
		100	0	23.60	23.23	23.34	23.48	2	23.70	23.60	23.23	23.34	23.48	2	23.70
		1	0	23.66	23.56	23.65	23.64	2	23.70	23.66	23.56	23.65	23.64	2	23.70
		1	49	23.62	23.30	23.52	23.45	2	23.70	23.62	23.30	23.52	23.45	2	23.70
		1	99	23.70	23.55	23.70	23.62	2	23.70	23.70	23.55	23.70	23.62	2	23.70
		50	0	22.40	22.29	22.44	22.33	3	22.70	22.40	22.29	22.44	22.33	3	22.70
		50	24	22.46	22.17	22.40	22.32	3	22.70	22.46	22.17	22.40	22.32	3	22.70
		50	50	22.44	22.21	22.41	22.32	3	22.70	22.44	22.21	22.41	22.32	3	22.70
		100	0	22.59	22.30	22.47	22.46	3	22.70	22.59	22.30	22.47	22.46	3	22.70
15 MHz	QPSK	1	0	25.31	25.38	25.58	25.40	0	25.70	25.31	25.38	25.58	25.40	0	25.70
		1	37	25.44	25.25	25.55	25.29	0	25.70	25.44	25.25	25.55	25.29	0	25.70
		1	74	25.56	25.46	25.70	25.47	0	25.70	25.56	25.46	25.70	25.47	0	25.70
		36	0	24.33	24.20	24.41	24.34	1	24.70	24.33	24.20	24.41	24.34	1	24.70
		36	20	24.42	24.14	24.44	24.31	1	24.70	24.42	24.14	24.44	24.31	1	24.70
		36	39	24.46	24.13	24.45	24.29	1	24.70	24.46	24.13	24.45	24.29	1	24.70
	16QAM	75	0	24.47	24.19	24.44	24.31	1	24.70	24.47	24.19	24.44	24.31	1	24.70
		1	0	24.32	24.34	24.48	24.41	1	24.70	24.32	24.34	24.48	24.41	1	24.70
		1	37	24.48	24.21	24.50	24.37	1	24.70	24.48	24.21	24.50	24.37	1	24.70
		1	74	24.56	24.34	24.60	24.50	1	24.70	24.56	24.34	24.60	24.50	1	24.70
		36	0	23.25	23.14	23.34	23.29	2	23.70	23.25	23.14	23.34	23.29	2	23.70
		36	20	23.39	23.06	23.36	23.20	2	23.70	23.39	23.06	23.36	23.20	2	23.70
	64QAM	36	39	23.44	23.05	23.35	23.21	2	23.70	23.44	23.05	23.35	23.21	2	23.70
		75	0	23.45	23.11	23.44	23.29	2	23.70	23.45	23.11	23.44	23.29	2	23.70
		1	0	23.33	23.41	23.62	23.48	2	23.70	23.33	23.41	23.62	23.48	2	23.70
		1	37	23.51	23.28	23.47	23.28	2	23.70	23.51	23.28	23.47	23.28	2	23.70
		1	74	23.62	23.42	23.69	23.51	2	23.70	23.62	23.42	23.69	23.51	2	23.70
		36	0	22.21	22.16	22.34	22.19	3	22.70	22.21	22.16	22.34	22.19	3	22.70
		36	20	22.34	22.10	22.35	22.15	3	22.70	22.34	22.10	22.35	22.15	3	22.70
		36	39	22.35	22.09	22.34	22.17	3	22.70	22.35	22.09	22.34	22.17	3	22.70
		75	0	22.36	22.15	22.40	22.22	3	22.70	22.36	22.15	22.40	22.22	3	22.70
10 MHz	QPSK	1	0	25.30	25.46	25.70	25.41	0	25.70	25.30	25.46	25.70	25.41	0	25.70
		1	25	25.27	25.14	25.39	25.12	0	25.70	25.27	25.14	25.39	25.12	0	25.70
		1	49	25.62	25.39	25.63	25.40	0	25.70	25.62	25.39	25.63	25.40	0	25.70
		25	0	24.32	24.25	24.51	24.30	1	24.70	24.32	24.25	24.51	24.30	1	24.70
		25	12	24.31	24.15	24.44	24.23	1	24.70	24.31	24.15	24.44	24.23	1	24.70
		25	25	24.46	24.18	24.49	24.24	1	24.70	24.46	24.18	24.49	24.24	1	24.70
	16QAM	50	0	24.45	24.27	24.58	24.34	1	24.70	24.45	24.27	24.58	24.34	1	24.70
		1	0	24.49	24.50	24.54	24.56	1	24.70	24.49	24.50	24.54	24.56	1	24.70
		1	25	24.40	24.18	24.56	24.30	1	24.70	24.40	24.18	24.56	24.30	1	24.70
		1	49	24.50	24.41	24.67	24.50	1	24.70	24.50	24.41	24.67	24.50	1	24.70
		25	0	23.25	23.11	23.43	23.17	2	23.70	23.25	23.11	23.43	23.17	2	23.70
		25	12	23.22	23.03	23.36	23.11	2	23.70	23.22	23.03	23.36	23.11	2	23.70
	64QAM	25	25	23.39	23.07	23.41	23.15	2	23.70	23.39	23.07	23.41	23.15	2	23.70
		50	0	23.40	23.24	23.56	23.31	2	23.70	23.40	23.24	23.56	23.31	2	23.70
		1	0	23.35	23.36	23.65	23.45	2	23.70	23.35	23.36	23.65	23.45	2	23.70
		1	25	23.24	23.10	23.40	23.06	2	23.70	23.24	23.10	23.40	23.06	2	23.70
		1	49	23.63	23.32	23.61	23.42	2	23.70	23.63	23.32	23.61	23.42	2	23.70
		25	0	22.17	22.12	22.37	22.15	3	22.70	22.17	22.12	22.37	22.15	3	22.70
		25	12	22.14	22.05	22.31	22.11	3	22.70	22.14	22.05	22.31	22.11	3	22.70
		25	25	22.30	22.09	22.36	22.12	3	22.70	22.30	22.09	22.36	22.12	3	22.70
		50	0	22.34	22.22	22.50	22.31	3	22.70	22.34	22.22	22.50	22.31	3	22.70

LTE Band 48 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55265	55748	56232	56715	MPR	Tune-up Limit	55265	55748	56232	56715	MPR	Tune-up Limit
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz			3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	25.24	25.45	25.54	25.40	0	25.70	25.24	25.45	25.54	25.40	0	25.70
		1	12	25.11	25.10	25.30	25.12	0	25.70	25.11	25.10	25.30	25.12	0	25.70
		1	24	25.48	25.38	25.57	25.35	0	25.70	25.48	25.38	25.57	25.35	0	25.70
		12	0	24.17	24.12	24.40	24.17	1	24.70	24.17	24.12	24.40	24.17	1	24.70
		12	7	24.18	24.04	24.32	24.09	1	24.70	24.18	24.04	24.32	24.09	1	24.70
		12	13	24.23	24.09	24.38	24.15	1	24.70	24.23	24.09	24.38	24.15	1	24.70
		25	0	24.43	24.29	24.48	24.37	1	24.70	24.43	24.29	24.48	24.37	1	24.70
	16QAM	1	0	24.34	24.40	24.53	24.41	1	24.70	24.34	24.40	24.53	24.41	1	24.70
		1	12	24.33	24.08	24.28	24.11	1	24.70	24.33	24.08	24.28	24.11	1	24.70
		1	24	24.49	24.32	24.53	24.42	1	24.70	24.49	24.32	24.53	24.42	1	24.70
		12	0	22.99	22.91	23.26	23.09	2	23.70	22.99	22.91	23.26	23.09	2	23.70
		12	7	23.03	22.90	23.15	22.95	2	23.70	23.03	22.90	23.15	22.95	2	23.70
		12	13	23.07	22.95	23.18	23.00	2	23.70	23.07	22.95	23.18	23.00	2	23.70
		25	0	23.31	23.15	23.38	23.20	2	23.70	23.31	23.15	23.38	23.20	2	23.70
	64QAM	1	0	23.17	23.27	23.51	23.35	2	23.70	23.17	23.27	23.51	23.35	2	23.70
		1	12	23.01	22.91	23.20	23.01	2	23.70	23.01	22.91	23.20	23.01	2	23.70
		1	24	23.37	23.26	23.58	23.38	2	23.70	23.37	23.26	23.58	23.38	2	23.70
		12	0	21.77	21.81	21.98	21.95	3	22.70	21.77	21.81	21.98	21.95	3	22.70
		12	7	22.01	21.77	22.03	21.87	3	22.70	22.01	21.77	22.03	21.87	3	22.70
		12	13	21.86	21.79	22.16	22.06	3	22.70	21.86	21.79	22.16	22.06	3	22.70
		25	0	22.21	22.07	22.31	22.23	3	22.70	22.21	22.07	22.31	22.23	3	22.70

LTE Band 48 Measured Results (ANT6)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	22.25	22.25	22.33	21.93	0	22.50	22.25	22.25	22.33	21.93	0	22.50
		1	49	22.29	22.30	22.45	22.00	0	22.50	22.29	22.30	22.45	22.00	0	22.50
		1	99	22.20	22.27	22.27	21.97	0	22.50	22.20	22.27	22.27	21.97	0	22.50
		50	0	21.02	21.08	21.01	21.10	1	21.50	21.02	21.08	21.01	21.10	1	21.50
		50	24	21.10	21.20	21.25	21.14	1	21.50	21.10	21.20	21.25	21.14	1	21.50
		50	50	21.08	21.03	21.16	21.10	1	21.50	21.08	21.03	21.16	21.10	1	21.50
		100	0	21.10	21.12	21.14	21.10	1	21.50	21.10	21.12	21.14	21.10	1	21.50
	16QAM	1	0	21.15	21.45	21.24	21.27	1	21.50	21.15	21.45	21.24	21.27	1	21.50
		1	49	21.20	21.13	21.17	21.18	1	21.50	21.20	21.13	21.17	21.18	1	21.50
		1	99	21.39	21.50	21.45	21.43	1	21.50	21.39	21.50	21.45	21.43	1	21.50
		50	0	19.97	20.05	19.95	19.99	2	20.50	19.97	20.05	19.95	19.99	2	20.50
		50	24	20.06	19.96	20.00	20.12	2	20.50	20.06	19.96	20.00	20.12	2	20.50
		50	50	20.04	20.01	20.10	20.23	2	20.50	20.04	20.01	20.10	20.23	2	20.50
		100	0	20.16	20.07	20.10	20.19	2	20.50	20.16	20.07	20.10	20.19	2	20.50
	64QAM	1	0	20.07	20.42	20.21	20.23	2	20.50	20.07	20.42	20.21	20.23	2	20.50
		1	49	20.19	20.08	20.19	20.06	2	20.50	20.19	20.08	20.19	20.06	2	20.50
		1	99	20.32	20.41	20.44	20.49	2	20.50	20.32	20.41	20.44	20.49	2	20.50
		50	0	18.63	18.72	18.59	19.29	3	19.50	18.63	18.72	18.59	19.29	3	19.50
		50	24	18.72	18.62	18.66	19.34	3	19.50	18.72	18.62	18.66	19.34	3	19.50
		50	50	18.69	18.63	18.78	19.47	3	19.50	18.69	18.63	18.78	19.47	3	19.50
		100	0	18.87	18.75	18.78	19.49	3	19.50	18.87	18.75	18.78	19.49	3	19.50
		100	0	18.87	18.75	18.78	19.49	3	19.50	18.87	18.75	18.78	19.49	3	19.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55315	55765	56215	56665	MPR	Tune-up Limit	55315	55765	56215	56665	MPR	Tune-up Limit
				3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz			3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz		
15 MHz	QPSK	1	0	22.05	22.33	22.23	21.76	0	22.50	22.05	22.33	22.23	21.76	0	22.50
		1	37	22.17	22.17	22.21	21.82	0	22.50	22.17	22.17	22.21	21.82	0	22.50
		1	74	22.36	22.27	22.45	21.96	0	22.50	22.36	22.27	22.45	21.96	0	22.50
		36	0	21.10	21.22	21.17	21.27	1	21.50	21.10	21.22	21.17	21.27	1	21.50
		36	20	21.23	21.17	21.22	21.37	1	21.50	21.23	21.17	21.22	21.37	1	21.50
		36	39	21.29	21.16	21.23	21.39	1	21.50	21.29	21.16	21.23	21.39	1	21.50
		75	0	21.27	21.23	21.28	21.44	1	21.50	21.27	21.23	21.28	21.44	1	21.50
	16QAM	1	0	21.13	21.34	21.25	21.26	1	21.50	21.13	21.34	21.25	21.26	1	21.50
		1	37	21.28	21.18	21.29	21.36	1	21.50	21.28	21.18	21.29	21.36	1	21.50
		1	74	21.42	21.35	21.48	21.46	1	21.50	21.42	21.35	21.48	21.46	1	21.50
		36	0	20.12	20.20	20.13	20.24	2	20.50	20.12	20.20	20.13	20.24	2	20.50
		36	20	20.19	20.16	20.21	20.35	2	20.50	20.19	20.16	20.21	20.35	2	20.50
		36	39	20.25	20.14	20.21	20.37	2	20.50	20.25	20.14	20.21	20.37	2	20.50
		75	0	20.28	20.20	20.25	20.40	2	20.50	20.28	20.20	20.25	20.40	2	20.50
	64QAM	1	0	20.13	20.47	20.36	20.35	2	20.50	20.13	20.47	20.36	20.35	2	20.50
		1	37	20.29	20.36	20.38	20.46	2	20.50	20.29	20.36	20.38	20.46	2	20.50
		1	74	20.45	20.48	20.43	20.35	2	20.50	20.45	20.48	20.43	20.35	2	20.50
		36	0	18.70	18.80	18.70	19.26	3	19.50	18.70	18.80	18.70	19.26	3	19.50
		36	20	18.82	18.71	18.78	19.36	3	19.50	18.82	18.71	18.78	19.36	3	19.50
		36	39	18.83	18.71	18.78	19.38	3	19.50	18.83	18.71	18.78	19.38	3	19.50
		75	0	18.83	18.79	18.86	19.47	3	19.50	18.83	18.79	18.86	19.47	3	19.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290	55757	56223	56690	MPR	Tune-up Limit	55290	55757	56223	56690	MPR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	22.08	22.35	22.25	21.67	0	22.50	22.08	22.35	22.25	21.67	0	22.50
		1	25	22.02	22.05	22.05	21.87	0	22.50	22.02	22.05	22.05	21.87	0	22.50
		1	49	22.39	22.32	22.39	22.06	0	22.50	22.39	22.32	22.39	22.06	0	22.50
		25	0	20.94	21.07	21.13	21.25	1	21.50	20.94	21.07	21.13	21.25	1	21.50
		25	12	21.02	21.02	21.08	21.19	1	21.50	21.02	21.02	21.08	21.19	1	21.50
		25	25	21.10	21.07	21.11	21.25	1	21.50	21.10	21.07	21.11	21.25	1	21.50
		50	0	21.09	21.17	21.21	21.34	1	21.50	21.09	21.17	21.21	21.34	1	21.50
	16QAM	1	0	21.09	21.40	21.29	21.39	1	21.50	21.09	21.40	21.29	21.39	1	21.50
		1	25	20.94	21.04	21.15	21.23	1	21.50	20.94	21.04	21.15	21.23	1	21.50
		1	49	21.37	21.23	21.44	21.49	1	21.50	21.37	21.23	21.44	21.49	1	21.50
		25	0	19.92	20.12	20.16	20.27	2	20.50	19.92	20.12	20.16	20.27	2	20.50
		25	12	19.98	20.07	20.09	20.21	2	20.50	19.98	20.07	20.09	20.21	2	20.50
		25	25	20.07	20.11	20.13	20.26	2	20.50	20.07	20.11	20.13	20.26	2	20.50
		50	0	20.15	20.23	20.30	20.40	2	20.50	20.15	20.23	20.30	20.40	2	20.50
		1	0	20.09	20.25	20.21	20.31	2	20.50	20.09	20.25	20.21	20.31	2	20.50
	64QAM	1	25	20.04	20.10	20.07	20.21	2	20.50	20.04	20.10	20.07	20.21	2	20.50
		1	49	20.40	20.40	20.44	20.38	2	20.50	20.40	20.40	20.44	20.38	2	20.50
		25	0	18.66	18.78	18.86	19.48	3	19.50	18.66	18.78	18.86	19.48	3	19.50
		25	12	18.74	18.74	18.79	19.39	3	19.50	18.74	18.74	18.79	19.39	3	19.50
		25	25	18.81	18.78	18.84	19.44	3	19.50	18.81	18.78	18.84	19.44	3	19.50
		50	0	18.86	18.92	18.95	19.46	3	19.50	18.86	18.92	18.95	19.46	3	19.50
		50	0	18.86	18.92	18.95	19.46	3	19.50	18.86	18.92	18.95	19.46	3	19.50

LTE Band 48 Measured Results (ANT6) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55265	55748	56232	56715	MPR	Tune-up Limit	55265	55748	56232	56715	MPR	Tune-up Limit
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz			3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	22.36	22.38	22.02	22.48	0	22.50	22.36	22.38	22.02	22.48	0	22.50
		1	12	22.14	22.09	22.07	22.21	0	22.50	22.14	22.09	22.07	22.21	0	22.50
		1	24	22.49	22.38	22.10	22.47	0	22.50	22.49	22.38	22.10	22.47	0	22.50
		12	0	21.21	21.21	21.24	21.29	1	21.50	21.21	21.21	21.24	21.29	1	21.50
		12	7	21.17	21.15	21.15	21.23	1	21.50	21.17	21.15	21.15	21.23	1	21.50
		12	13	21.31	21.21	21.22	21.28	1	21.50	21.31	21.21	21.22	21.28	1	21.50
		25	0	21.45	21.39	21.41	21.47	1	21.50	21.45	21.39	21.41	21.47	1	21.50
	16QAM	1	0	21.40	21.47	21.41	21.47	1	21.50	21.40	21.47	21.41	21.47	1	21.50
		1	12	21.26	21.22	21.30	21.28	1	21.50	21.26	21.22	21.30	21.28	1	21.50
		1	24	21.45	21.49	21.47	21.46	1	21.50	21.45	21.49	21.47	21.46	1	21.50
		12	0	20.05	20.12	20.12	20.18	2	20.50	20.05	20.12	20.12	20.18	2	20.50
		12	7	20.08	20.00	20.25	20.06	2	20.50	20.08	20.00	20.25	20.06	2	20.50
		12	13	20.14	20.05	20.27	20.14	2	20.50	20.14	20.05	20.27	20.14	2	20.50
		25	0	20.30	20.27	20.28	20.31	2	20.50	20.30	20.27	20.28	20.31	2	20.50
	64QAM	1	0	20.28	20.37	20.21	20.28	2	20.50	20.28	20.37	20.21	20.28	2	20.50
		1	12	20.12	20.04	20.43	20.04	2	20.50	20.12	20.04	20.43	20.04	2	20.50
		1	24	20.45	20.34	20.28	20.22	2	20.50	20.45	20.34	20.28	20.22	2	20.50
		12	0	19.08	19.13	19.13	19.16	3	19.50	19.08	19.13	19.13	19.16	3	19.50
		12	7	18.84	19.09	19.49	19.08	3	19.50	18.84	19.09	19.49	19.08	3	19.50
		12	13	19.01	19.02	19.48	19.03	3	19.50	19.01	19.02	19.48	19.03	3	19.50
		25	0	19.26	19.22	19.24	19.27	3	19.50	19.26	19.22	19.24	19.27	3	19.50

LTE Band 48 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)						
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit	
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			
20 MHz	QPSK	1	0	25.26	25.29	25.41	25.46	0	25.50	25.26	25.29	25.41	25.46	0	25.50	
		1	49	25.40	25.07	25.45	25.32	0	25.50	25.40	25.07	25.45	25.32	0	25.50	
		1	99	25.39	25.34	25.35	25.45	0	25.50	25.39	25.34	25.35	25.45	0	25.50	
		50	0	24.22	24.16	24.30	24.43	1	24.50	24.22	24.16	24.30	24.43	1	24.50	
		50	24	24.35	24.15	24.35	24.43	1	24.50	24.35	24.15	24.35	24.43	1	24.50	
		50	50	24.26	24.18	24.20	24.48	1	24.50	24.26	24.18	24.20	24.48	1	24.50	
	16QAM	100	0	24.30	24.26	24.32	24.49	1	24.50	24.30	24.26	24.32	24.49	1	24.50	
		1	0	24.39	24.39	24.22	24.50	1	24.50	24.42	24.06	24.37	24.50	1	24.50	
		1	49	24.29	24.16	24.24	24.44	1	24.50	24.44	23.76	24.04	24.35	1	24.50	
		1	99	24.39	24.48	24.46	24.48	1	24.50	24.50	23.93	24.35	24.48	1	24.50	
		50	0	23.21	23.14	23.25	23.38	2	23.50	23.31	22.61	23.06	23.33	2	23.50	
		50	24	23.21	23.12	23.21	23.39	2	23.50	23.30	22.54	22.95	23.29	2	23.50	
	64QAM	50	50	23.19	23.13	23.19	23.42	2	23.50	23.34	22.53	22.92	23.27	2	23.50	
		100	0	23.32	23.23	23.32	23.44	2	23.50	23.44	22.68	23.08	23.43	2	23.50	
		1	0	23.46	23.41	23.41	23.47	2	23.50	23.46	23.41	23.41	23.47	2	23.50	
		1	49	23.20	23.15	23.09	23.39	2	23.50	23.20	23.15	23.09	23.39	2	23.50	
		1	99	23.43	23.38	23.35	23.49	2	23.50	23.43	23.38	23.35	23.46	2	23.50	
		50	0	22.18	22.20	22.24	22.35	3	22.50	22.18	22.20	22.24	22.35	3	22.50	
20 MHz	50	24	22.18	22.14	22.20	22.34	3	22.50	22.18	22.14	22.20	22.34	3	22.50		
	50	50	22.19	22.18	22.17	22.40	3	22.50	22.19	22.18	22.17	22.40	3	22.50		
	100	0	22.32	22.29	22.33	22.48	3	22.50	22.32	22.29	22.33	22.48	3	22.50		
	1	0	23.46	23.41	23.41	23.47	2	23.50	23.46	23.41	23.41	23.47	2	23.50		
	1	49	23.20	23.15	23.09	23.39	2	23.50	23.20	23.15	23.09	23.39	2	23.50		
	1	99	23.43	23.38	23.35	23.49	2	23.50	23.43	23.38	23.35	23.46	2	23.50		
15 MHz	QPSK	50	0	22.18	22.20	22.24	22.35	3	22.50	22.18	22.20	22.24	22.35	3	22.50	
		50	24	22.18	22.14	22.20	22.34	3	22.50	22.18	22.14	22.20	22.34	3	22.50	
		50	50	22.19	22.18	22.17	22.40	3	22.50	22.19	22.18	22.17	22.40	3	22.50	
		100	0	22.32	22.29	22.33	22.48	3	22.50	22.32	22.29	22.33	22.48	3	22.50	
		1	0	25.08	25.16	25.21	25.38	0	25.50	25.38	25.29	25.31	25.34	0	25.50	
		1	37	25.07	24.98	25.02	25.28	0	25.50	25.29	25.14	25.18	25.23	0	25.50	
	16QAM	1	74	25.24	25.18	25.22	25.26	0	25.50	25.46	25.32	25.30	25.48	0	25.50	
		36	0	24.06	24.11	24.18	24.42	1	24.50	24.26	24.23	24.24	24.30	1	24.50	
		36	20	24.13	24.12	24.23	24.45	1	24.50	24.30	24.16	24.22	24.24	1	24.50	
		36	39	24.18	24.10	24.24	24.49	1	24.50	24.31	24.09	24.19	24.23	1	24.50	
		75	0	24.17	24.14	24.21	24.46	1	24.50	24.30	24.22	24.21	24.24	1	24.50	
		1	0	24.14	24.14	24.07	24.27	1	24.50	24.37	24.41	24.38	24.27	1	24.50	
	64QAM	1	37	24.06	23.96	23.92	24.25	1	24.50	24.33	24.25	24.16	24.16	1	24.50	
		1	74	24.22	24.19	24.14	24.49	1	24.50	24.43	24.34	24.29	24.43	1	24.50	
		36	0	23.04	23.04	23.09	23.30	2	23.50	23.28	23.17	23.15	23.22	2	23.50	
36		20	23.07	23.04	23.13	23.31	2	23.50	23.26	23.15	23.10	23.15	2	23.50		
36		39	23.08	22.99	23.09	23.37	2	23.50	23.30	23.05	23.08	23.15	2	23.50		
75		0	23.12	23.10	23.13	23.39	2	23.50	23.31	23.18	23.17	23.22	2	23.50		
10 MHz	QPSK	1	0	23.30	23.31	23.28	23.38	2	23.50	23.30	23.31	23.28	22.93	2	23.50	
		1	37	23.25	23.17	23.11	23.40	2	23.50	23.25	23.17	23.11	22.95	2	23.50	
		1	74	23.34	23.34	23.33	23.47	2	23.50	23.34	23.34	23.33	23.22	2	23.50	
		36	0	22.01	22.08	22.06	22.28	3	22.50	22.01	22.08	22.06	22.28	3	22.50	
		36	20	22.05	22.05	22.09	22.32	3	22.50	22.05	22.05	22.09	22.32	3	22.50	
		36	39	22.08	22.02	22.08	22.35	3	22.50	22.08	22.02	22.08	22.35	3	22.50	
10 MHz	16QAM	75	0	22.11	22.11	22.12	22.33	3	22.50	22.11	22.11	22.12	22.33	3	22.50	
		1	0	25.09	25.16	25.10	25.10	0	25.50	25.16	25.23	25.27	25.45	0	25.50	
		1	25	24.86	25.00	24.96	24.89	0	25.50	24.92	25.00	25.02	25.11	0	25.50	
		1	49	25.22	25.14	25.23	25.25	0	25.50	25.18	25.12	25.14	25.49	0	25.50	
		25	0	24.09	24.17	24.26	24.19	1	24.50	24.09	24.15	24.17	24.27	1	24.50	
		25	12	24.09	24.11	24.13	24.19	1	24.50	24.08	24.09	24.13	24.20	1	24.50	
	64QAM	25	25	24.19	24.15	24.21	24.30	1	24.50	24.12	24.13	24.12	24.32	1	24.50	
		50	0	24.21	24.25	24.24	24.31	1	24.50	24.15	24.23	24.18	24.40	1	24.50	
		1	0	24.33	24.40	24.31	24.22	1	24.50	24.37	24.36	24.22	24.38	1	24.50	
		1	25	24.18	23.97	24.09	24.09	1	24.50	24.18	24.03	23.94	24.09	1	24.50	
		1	49	24.37	24.35	24.27	24.49	1	24.50	24.48	24.33	24.14	24.45	1	24.50	
		25	0	23.01	23.07	23.12	23.11	2	23.50	23.00	23.09	23.00	23.16	2	23.50	
	10 MHz	QPSK	25	12	23.02	23.05	23.03	23.10	2	23.50	22.99	23.02	22.95	23.06	2	23.50
			25	25	23.10	23.10	23.09	23.19	2	23.50	23.02	23.08	22.95	23.17	2	23.50
			50	0	23.21	23.24	23.23	23.28	2	23.50	23.18	23.20	23.15	23.34	2	23.50
1			0	23.25	23.27	23.05	23.06	2	23.50	23.25	23.27	23.05	23.34	2	23.50	
1			25	22.96	22.93	22.77	22.79	2	23.50	22.96	22.93	22.77	23.07	2	23.50	
1			49	23.30	23.16	23.13	23.20	2	23.50	23.30	23.16	23.13	23.48	2	23.50	
64QAM		25	0	22.02	22.09	22.15	22.01	3	22.50	22.02	22.09	22.15	22.29	3	22.50	
		25	12	22.00	22.01	22.04	22.01	3	22.50	22.00	22.01	22.04	22.29	3	22.50	
		25	25	22.10	22.06	22.11	22.13	3	22.50	22.10	22.06	22.11	22.41	3	22.50	
10 MHz	QPSK	50	0	22.19	22.24	22.26	22.25	3	22.50	22.19	22.24	22.26	22.50	3	22.50	
		1	0	25.09	25.16	25.10	25.10	0	25.50	25.16	25.23	25.27	25.45	0	25.50	
		1	25	24.86	25.00	24.96	24.89	0	25.50	24.92	25.00	25.02	25.11	0	25.50	
		1	49	25.22	25.14	25.23	25.25	0	25.50	25.18	25.12	25.14	25.49	0	25.50	
		25	0	24.09	24.17	24.26	24.19	1	24.50	24.09	24.15	24.17	24.27	1	24.50	
		25	12	24.09	24.11	24.13	24.19	1	24.50	24.08	24.09	24.13	24.20	1	24.50	
	16QAM	25	25	24.19	24.15	24.21	24.30	1	24.50	24.12	24.13	24.12	24.32	1	24.50	
		50	0	24.21	24.25	24.24	24.31	1	24.50	24.15	24.23	24.18	24.40	1	24.50	
		1	0	24.33	24.40	24.31	24.22	1	24.50	24.37	24.36	24.22	24.38	1	24.50	
10 MHz	QPSK	1	25	24.18	23.97	24.09	24.09	1	24.50	24.18	24.03	23.94	24.09	1	24.50	
		1	49	24.37	24.35	24.27	24.49	1	24.50	24.48	24.33	24.14	24.45	1	24.50	
		25	0	23.01	23.07	23.12	23.11	2	23.50	23.00	23.09	23.00	23.16	2	23.50	
		25	12	23.02	23.05	23.03	23.10	2	23.50	22.99	23.02	22.95	23.06	2	23.50	
		25	25	23.10	23.10	23.09	23.19	2	23.50	23.02	23.08	22.95	23.17	2	23.50	
		50	0	23.21	23.24	23.23	23.28	2	23.50							

LTE Band 48 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55265	55748	56232	56715	MPR	Tune-up Limit	55265	55748	56232	56715	MPR	Tune-up Limit
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz			3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	24.96	25.17	25.24	25.26	0	25.50	25.28	25.33	25.14	25.46	0	25.50
		1	12	24.69	24.89	25.01	25.09	0	25.50	25.04	25.14	24.88	25.34	0	25.50
		1	24	25.05	25.06	25.23	25.39	0	25.50	25.41	25.27	25.15	25.45	0	25.50
		12	0	23.98	24.07	24.11	24.19	1	24.50	24.17	24.18	24.13	24.47	1	24.50
		12	7	23.87	23.98	24.07	24.21	1	24.50	24.08	24.13	24.00	24.42	1	24.50
		12	13	23.93	24.03	24.14	24.26	1	24.50	24.16	24.19	24.05	24.45	1	24.50
		25	0	24.06	24.23	24.27	24.44	1	24.50	24.35	24.34	24.14	24.47	1	24.50
	16QAM	1	0	23.97	24.21	24.32	24.28	1	24.50	24.33	24.45	24.11	24.43	1	24.50
		1	12	23.76	23.83	23.92	24.05	1	24.50	24.14	24.25	23.81	24.33	1	24.50
		1	24	24.19	23.95	24.15	24.45	1	24.50	24.49	24.40	24.02	24.44	1	24.50
		12	0	22.80	22.95	22.96	23.12	2	23.50	23.09	23.13	22.92	23.29	2	23.50
		12	7	22.77	22.90	22.84	23.03	2	23.50	22.99	23.07	22.76	23.23	2	23.50
		12	13	22.84	22.96	22.94	23.05	2	23.50	23.06	23.08	22.80	23.24	2	23.50
		25	0	22.99	23.09	23.17	23.30	2	23.50	23.20	23.25	23.05	23.38	2	23.50
	64QAM	1	0	22.96	23.04	23.16	23.35	2	23.50	22.96	23.04	23.16	23.35	2	23.50
		1	12	22.76	22.86	22.76	23.11	2	23.50	22.76	22.86	22.76	23.11	2	23.50
		1	24	23.09	23.09	23.07	23.50	2	23.50	23.09	23.09	23.07	23.50	2	23.50
		12	0	21.70	22.00	22.01	22.12	3	22.50	21.70	22.00	22.01	22.12	3	22.50
		12	7	21.64	21.72	21.80	22.26	3	22.50	21.64	21.72	21.80	22.26	3	22.50
		12	13	21.90	21.94	21.97	22.28	3	22.50	21.90	21.94	21.97	22.28	3	22.50
		25	0	21.97	22.13	22.13	22.44	3	22.50	21.97	22.13	22.13	22.44	3	22.50

LTE Band 48 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	22.25	22.08	22.02	22.27	0	22.50	22.25	22.08	22.02	22.27	0	22.50
		1	49	22.45	22.30	22.50	22.40	0	22.50	22.45	22.30	22.50	22.40	0	22.50
		1	99	22.43	22.22	22.35	22.35	0	22.50	22.43	22.22	22.35	22.35	0	22.50
		50	0	21.20	21.20	21.26	21.10	1	21.50	21.20	21.20	21.26	21.10	1	21.50
		50	24	21.20	21.30	21.35	21.19	1	21.50	21.20	21.30	21.35	21.19	1	21.50
		50	50	21.10	21.30	21.24	21.15	1	21.50	21.10	21.30	21.24	21.15	1	21.50
	16QAM	100	0	21.28	21.30	21.30	21.20	1	21.50	21.28	21.30	21.30	21.20	1	21.50
		1	0	21.21	21.22	21.17	21.37	1	21.50	21.21	21.22	21.17	21.37	1	21.50
		1	49	21.41	21.42	21.32	21.17	1	21.50	21.41	21.42	21.32	21.17	1	21.50
		1	99	21.07	21.40	21.05	21.45	1	21.50	21.07	21.40	21.05	21.45	1	21.50
		50	0	20.23	20.34	20.22	20.14	2	20.50	20.23	20.34	20.22	20.14	2	20.50
		50	24	20.18	20.26	20.17	20.11	2	20.50	20.18	20.26	20.17	20.11	2	20.50
	64QAM	50	50	20.22	20.37	20.19	20.19	2	20.50	20.22	20.37	20.19	20.19	2	20.50
		100	0	20.26	20.38	20.27	20.27	2	20.50	20.26	20.38	20.27	20.27	2	20.50
		1	0	20.38	20.25	20.29	20.35	2	20.50	20.38	20.25	20.29	20.35	2	20.50
		1	49	20.35	20.32	20.45	20.09	2	20.50	20.35	20.32	20.45	20.09	2	20.50
		1	99	20.46	20.31	20.36	20.32	2	20.50	20.46	20.31	20.36	20.32	2	20.50
		50	0	19.41	19.15	19.10	19.20	3	19.50	19.41	19.15	19.10	19.20	3	19.50
15 MHz	QPSK	50	24	19.43	19.04	19.14	19.33	3	19.50	19.43	19.04	19.14	19.33	3	19.50
		50	50	19.42	19.07	19.21	19.26	3	19.50	19.42	19.07	19.21	19.26	3	19.50
		100	0	19.33	19.18	19.21	19.26	3	19.50	19.33	19.18	19.21	19.26	3	19.50
	16QAM	1	0	22.19	22.45	22.33	22.20	0	22.50	22.19	22.45	22.33	22.20	0	22.50
		1	37	22.14	22.34	22.20	22.14	0	22.50	22.14	22.34	22.20	22.14	0	22.50
		1	74	22.37	22.05	22.28	22.36	0	22.50	22.37	22.05	22.28	22.36	0	22.50
		36	0	21.15	21.35	21.18	21.14	1	21.50	21.15	21.35	21.18	21.14	1	21.50
		36	20	21.16	21.29	21.17	21.16	1	21.50	21.16	21.29	21.17	21.16	1	21.50
		36	39	21.23	21.34	21.15	21.20	1	21.50	21.23	21.34	21.15	21.20	1	21.50
	64QAM	75	0	21.20	21.34	21.18	21.17	1	21.50	21.20	21.34	21.18	21.17	1	21.50
		1	0	21.20	21.42	21.34	21.14	1	21.50	21.20	21.42	21.34	21.14	1	21.50
		1	37	21.14	21.33	21.28	21.05	1	21.50	21.14	21.33	21.28	21.05	1	21.50
		1	74	21.40	21.06	21.30	21.29	1	21.50	21.40	21.06	21.30	21.29	1	21.50
		36	0	20.06	20.30	20.20	20.01	2	20.50	20.06	20.30	20.20	20.01	2	20.50
		36	20	20.08	20.21	20.18	20.08	2	20.50	20.08	20.21	20.18	20.08	2	20.50
10 MHz	QPSK	36	39	20.14	20.29	20.17	20.13	2	20.50	20.14	20.29	20.17	20.13	2	20.50
		75	0	20.14	20.29	20.21	20.17	2	20.50	20.14	20.29	20.21	20.17	2	20.50
		1	0	20.13	20.14	20.49	20.04	2	20.50	20.13	20.14	20.49	20.04	2	20.50
		1	37	20.17	20.35	20.27	20.04	2	20.50	20.17	20.35	20.27	20.04	2	20.50
		1	74	20.34	20.10	20.07	20.21	2	20.50	20.34	20.10	20.07	20.21	2	20.50
		36	0	19.00	19.05	19.02	19.11	3	19.50	19.00	19.05	19.02	19.11	3	19.50
	16QAM	36	20	19.05	19.00	19.02	19.15	3	19.50	19.05	19.00	19.02	19.15	3	19.50
		36	39	19.14	19.47	19.02	19.16	3	19.50	19.14	19.47	19.02	19.16	3	19.50
		75	0	19.15	19.04	19.10	19.06	3	19.50	19.15	19.04	19.10	19.06	3	19.50
		1	0	22.26	22.01	22.45	22.34	0	22.50	22.26	22.01	22.45	22.34	0	22.50
		1	25	22.00	22.23	22.18	22.10	0	22.50	22.00	22.23	22.18	22.10	0	22.50
		1	49	22.30	22.04	21.82	22.41	0	22.50	22.30	22.04	21.82	22.41	0	22.50
	64QAM	25	0	21.19	21.38	21.26	21.20	1	21.50	21.19	21.38	21.26	21.20	1	21.50
		25	12	21.13	21.31	21.21	21.16	1	21.50	21.13	21.31	21.21	21.16	1	21.50
		25	25	21.18	21.36	21.26	21.23	1	21.50	21.18	21.36	21.26	21.23	1	21.50
		50	0	21.26	21.43	21.32	21.34	1	21.50	21.26	21.43	21.32	21.34	1	21.50
		1	0	21.36	21.13	21.00	21.14	1	21.50	21.36	21.13	21.00	21.14	1	21.50
		1	25	21.11	21.34	21.26	21.02	1	21.50	21.11	21.34	21.26	21.02	1	21.50
10 MHz	16QAM	1	49	21.47	21.20	21.43	21.32	1	21.50	21.47	21.20	21.43	21.32	1	21.50
		25	0	20.07	20.26	20.20	20.07	2	20.50	20.07	20.26	20.20	20.07	2	20.50
		25	12	20.01	20.20	20.11	20.07	2	20.50	20.01	20.20	20.11	20.07	2	20.50
		25	25	20.06	20.25	20.14	20.12	2	20.50	20.06	20.25	20.14	20.12	2	20.50
		50	0	20.20	20.40	20.32	20.29	2	20.50	20.20	20.40	20.32	20.29	2	20.50
		1	0	20.37	20.49	20.10	20.38	2	20.50	20.37	20.49	20.10	20.38	2	20.50
	64QAM	1	25	20.47	20.11	20.12	20.49	2	20.50	20.47	20.11	20.12	20.49	2	20.50
		1	49	20.43	20.43	20.10	20.44	2	20.50	20.43	20.43	20.10	20.44	2	20.50
		25	0	19.35	19.01	19.09	19.37	3	19.50	19.35	19.01	19.09	19.37	3	19.50
		25	12	19.25	19.35	19.01	19.27	3	19.50	19.25	19.35	19.01	19.27	3	19.50
		25	25	19.24	19.38	19.04	19.25	3	19.50	19.24	19.38	19.04	19.25	3	19.50
		50	0	19.36	19.16	19.23	19.38	3	19.50	19.36	19.16	19.23	19.38	3	19.50

LTE Band 48 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55265	55748	56232	56715	MPR	Tune-up Limit	55265	55748	56232	56715	MPR	Tune-up Limit
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz			3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	22.15	22.46	22.34	22.28	0	22.50	22.15	22.46	22.34	22.28	0	22.50
		1	12	22.40	22.22	22.07	22.09	0	22.50	22.40	22.22	22.07	22.09	0	22.50
		1	24	22.16	22.36	22.32	22.34	0	22.50	22.16	22.36	22.32	22.34	0	22.50
		12	0	21.10	21.27	21.21	21.15	1	21.50	21.10	21.27	21.21	21.15	1	21.50
		12	7	21.02	21.20	21.13	21.11	1	21.50	21.02	21.20	21.13	21.11	1	21.50
		12	13	21.07	21.24	21.17	21.18	1	21.50	21.07	21.24	21.17	21.18	1	21.50
		25	0	21.25	21.41	21.30	21.34	1	21.50	21.25	21.41	21.30	21.34	1	21.50
	16QAM	1	0	21.20	21.04	21.31	21.27	1	21.50	21.20	21.04	21.31	21.27	1	21.50
		1	12	21.47	21.17	21.14	21.05	1	21.50	21.47	21.17	21.14	21.05	1	21.50
		1	24	21.25	21.00	21.26	21.39	1	21.50	21.25	21.00	21.26	21.39	1	21.50
		12	0	20.40	20.10	20.03	20.03	2	20.50	20.40	20.10	20.03	20.03	2	20.50
		12	7	20.34	20.00	20.25	20.37	2	20.50	20.34	20.00	20.25	20.37	2	20.50
		12	13	20.37	20.07	20.00	20.00	2	20.50	20.37	20.07	20.00	20.00	2	20.50
		25	0	20.08	20.26	20.16	20.17	2	20.50	20.08	20.26	20.16	20.17	2	20.50
	64QAM	1	0	20.23	20.04	20.11	20.04	2	20.50	20.23	20.04	20.11	20.04	2	20.50
		1	12	20.45	20.44	20.32	20.35	2	20.50	20.45	20.44	20.32	20.35	2	20.50
		1	24	20.46	20.10	20.48	20.31	2	20.50	20.46	20.10	20.48	20.31	2	20.50
		12	0	19.48	19.24	19.15	19.31	3	19.50	19.48	19.24	19.15	19.31	3	19.50
		12	7	19.42	19.21	19.11	19.43	3	19.50	19.42	19.21	19.11	19.43	3	19.50
		12	13	19.36	19.00	19.07	19.45	3	19.50	19.36	19.00	19.07	19.45	3	19.50
		25	0	19.46	19.14	19.14	19.11	3	19.50	19.46	19.14	19.14	19.11	3	19.50

LTE Band 66 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	25.61	25.55	25.53	0	25.70	17.26	17.14	17.21	0	17.50
		1	49	25.66	25.56	25.51	0	25.70	17.33	17.25	17.35	0	17.50
		1	99	25.50	25.55	25.63	0	25.70	17.17	17.13	17.29	0	17.50
		50	0	24.62	24.53	24.55	1	24.70	17.35	17.26	17.25	0	17.50
		50	24	24.68	24.65	24.50	1	24.70	17.38	17.31	17.29	0	17.50
		50	50	24.58	24.55	24.50	1	24.70	17.29	17.28	17.15	0	17.50
	16QAM	100	0	24.67	24.55	24.50	1	24.70	17.47	17.29	17.28	0	17.50
		1	0	24.54	24.37	24.31	1	24.70	17.22	17.11	17.25	0	17.50
		1	49	24.56	24.29	24.30	1	24.70	17.30	17.04	17.30	0	17.50
		1	99	24.43	24.32	24.37	1	24.70	17.10	17.15	17.20	0	17.50
		50	0	23.65	23.55	23.55	2	23.70	17.45	17.20	17.24	0	17.50
		50	24	23.68	23.58	23.54	2	23.70	17.41	17.18	17.25	0	17.50
	64QAM	50	50	23.58	23.64	23.57	2	23.70	17.31	17.15	17.26	0	17.50
		100	0	23.67	23.59	23.55	2	23.70	17.40	17.18	17.20	0	17.50
		1	0	23.47	23.41	23.57	2	23.70	17.38	17.41	17.34	0	17.50
		1	49	23.63	23.69	23.68	2	23.70	17.17	17.35	17.45	0	17.50
		1	99	23.68	23.40	23.55	2	23.70	17.16	17.30	17.27	0	17.50
		50	0	22.52	22.45	22.58	3	22.70	17.24	17.03	17.04	0	17.50
		50	24	22.47	22.46	22.60	3	22.70	17.22	17.02	17.17	0	17.50
		50	50	22.37	22.49	22.53	3	22.70	17.19	16.99	17.20	0	17.50
		100	0	22.39	22.44	22.57	3	22.70	17.22	17.01	17.28	0	17.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	25.67	25.57	25.59	0	25.70	17.31	17.16	17.27	0	17.50
		1	37	25.64	25.58	25.61	0	25.70	17.41	17.09	17.25	0	17.50
		1	74	25.58	25.55	25.65	0	25.70	17.19	17.08	17.26	0	17.50
		36	0	24.65	24.55	24.60	1	24.70	17.37	17.14	17.24	0	17.50
		36	20	24.64	24.59	24.62	1	24.70	17.37	17.17	17.26	0	17.50
		36	39	24.63	24.58	24.62	1	24.70	17.30	17.16	17.27	0	17.50
	16QAM	75	0	24.64	24.57	24.60	1	24.70	17.36	17.17	17.25	0	17.50
		1	0	24.40	24.43	24.36	1	24.70	17.45	17.32	17.47	0	17.50
		1	37	24.44	24.33	24.44	1	24.70	17.44	17.29	17.46	0	17.50
		1	74	24.27	24.30	24.45	1	24.70	17.37	17.28	17.48	0	17.50
		36	0	23.60	23.57	23.62	2	23.70	17.27	17.01	17.11	0	17.50
		36	20	23.61	23.62	23.63	2	23.70	17.20	17.03	17.12	0	17.50
	64QAM	36	39	23.65	23.60	23.65	2	23.70	17.14	16.99	17.10	0	17.50
		75	0	23.67	23.59	23.60	2	23.70	17.19	16.99	17.10	0	17.50
		1	0	23.66	23.67	23.70	2	23.70	17.29	17.20	17.18	0	17.50
		1	37	23.65	23.60	23.62	2	23.70	17.37	17.08	17.14	0	17.50
		1	74	23.49	23.62	23.64	2	23.70	17.22	17.08	17.05	0	17.50
		36	0	22.50	22.48	22.58	3	22.70	17.04	16.87	17.01	0	17.50
		36	20	22.51	22.52	22.67	3	22.70	17.08	16.93	17.03	0	17.50
		36	39	22.50	22.59	22.63	3	22.70	17.11	17.17	17.19	0	17.50
		75	0	22.48	22.48	22.63	3	22.70	17.15	17.05	17.20	0	17.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	25.67	25.52	25.55	0	25.70	17.34	17.16	17.24	0	17.50
		1	25	25.24	25.55	25.59	0	25.70	17.42	17.09	17.26	0	17.50
		1	49	25.24	25.59	25.66	0	25.70	17.41	17.12	17.32	0	17.50
		25	0	24.16	24.54	24.58	1	24.70	17.35	17.14	17.24	0	17.50
		25	12	24.22	24.56	24.58	1	24.70	17.43	17.17	17.26	0	17.50
		25	25	24.28	24.55	24.64	1	24.70	17.45	17.16	17.34	0	17.50
	16QAM	50	0	24.25	24.56	24.58	1	24.70	17.41	17.17	17.25	0	17.50
		1	0	24.41	24.60	24.64	1	24.70	17.45	17.32	17.47	0	17.50
		1	25	24.47	24.65	24.68	1	24.70	17.50	17.33	17.48	0	17.50
		1	49	24.45	24.66	24.61	1	24.70	17.45	17.31	17.46	0	17.50
		25	0	23.24	23.55	23.61	2	23.70	17.22	17.09	17.19	0	17.50
		25	12	23.30	23.59	23.64	2	23.70	17.29	17.06	17.20	0	17.50
	64QAM	25	25	23.31	23.59	23.69	2	23.70	17.30	17.05	17.26	0	17.50
		50	0	23.28	23.60	23.62	2	23.70	17.28	17.07	17.21	0	17.50
		1	0	23.35	23.67	23.68	2	23.70	17.39	17.28	17.43	0	17.50
		1	25	23.22	23.70	23.57	2	23.70	17.40	17.27	17.27	0	17.50
		1	49	23.70	23.69	23.58	2	23.70	17.32	17.30	17.33	0	17.50
		25	0	22.69	22.53	22.66	3	22.70	17.27	17.11	17.25	0	17.50
		25	12	22.63	22.60	22.64	3	22.70	17.21	17.18	17.23	0	17.50
		25	25	22.63	22.65	22.66	3	22.70	17.23	17.23	17.23	0	17.50
		50	0	22.63	22.59	22.64	3	22.70	17.23	17.16	17.22	0	17.50

LTE Band 66 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	25.49	25.44	25.52	0	25.70	17.20	17.11	17.27	0	17.50
		1	12	25.54	25.48	25.58	0	25.70	17.24	17.09	17.32	0	17.50
		1	24	25.67	25.53	25.62	0	25.70	17.37	17.13	17.28	0	17.50
		12	0	24.52	24.44	24.50	1	24.70	17.41	17.30	17.43	0	17.50
		12	7	24.49	24.43	24.55	1	24.70	17.41	17.26	17.47	0	17.50
		12	13	24.57	24.43	24.55	1	24.70	17.41	17.25	17.44	0	17.50
	16QAM	25	0	24.48	24.42	24.55	1	24.70	17.42	17.29	17.47	0	17.50
		1	0	24.69	24.50	24.64	1	24.70	17.42	17.50	17.34	0	17.50
		1	12	24.61	24.50	24.68	1	24.70	17.31	17.05	17.40	0	17.50
		1	24	24.60	24.55	24.69	1	24.70	17.39	17.13	17.40	0	17.50
		12	0	23.52	23.45	23.52	2	23.70	17.48	17.36	17.48	0	17.50
		12	7	23.49	23.43	23.53	2	23.70	17.47	17.33	17.44	0	17.50
	64QAM	12	13	23.57	23.43	23.53	2	23.70	17.48	17.33	17.41	0	17.50
		25	0	23.56	23.39	23.51	2	23.70	17.48	17.32	17.40	0	17.50
		1	0	23.60	23.46	23.58	2	23.70	17.32	17.33	17.47	0	17.50
		1	12	23.68	23.47	23.54	2	23.70	17.34	17.36	17.37	0	17.50
		1	24	23.61	23.57	23.54	2	23.70	17.27	17.43	17.36	0	17.50
		12	0	22.45	22.37	22.47	3	22.70	17.05	17.01	17.17	0	17.50
3 MHz	QPSK	12	7	22.44	22.30	22.46	3	22.70	17.07	17.00	17.15	0	17.50
		12	13	22.40	22.32	22.46	3	22.70	16.98	17.01	17.15	0	17.50
		25	0	22.43	22.33	22.43	3	22.70	17.08	17.00	17.12	0	17.50
	16QAM	1	0	25.30	25.35	25.43	0	25.70	17.07	17.12	17.22	0	17.50
		1	8	25.45	25.41	25.49	0	25.70	17.19	17.15	17.21	0	17.50
		1	14	25.35	25.33	25.45	0	25.70	17.14	17.10	17.15	0	17.50
		8	0	24.34	24.24	24.37	1	24.70	17.11	17.05	17.16	0	17.50
		8	4	24.33	24.23	24.36	1	24.70	17.03	17.02	17.12	0	17.50
		8	7	24.35	24.23	24.35	1	24.70	17.03	16.99	17.11	0	17.50
	64QAM	15	0	24.34	24.25	24.35	1	24.70	17.04	16.98	17.11	0	17.50
		1	0	24.58	24.63	24.64	1	24.70	17.26	17.30	17.49	0	17.50
		1	8	24.69	24.64	24.68	1	24.70	17.41	17.28	17.42	0	17.50
		1	14	24.68	24.61	24.66	1	24.70	17.35	17.20	17.46	0	17.50
		8	0	23.32	23.26	23.37	2	23.70	17.49	17.48	17.50	0	17.50
		8	4	23.30	23.27	23.36	2	23.70	17.48	17.46	17.47	0	17.50
1.4 MHz	QPSK	8	7	23.31	23.29	23.36	2	23.70	17.49	17.45	17.46	0	17.50
		15	0	23.28	23.27	23.32	2	23.70	17.48	17.43	17.45	0	17.50
		1	0	23.57	23.43	23.57	2	23.70	17.42	17.47	17.39	0	17.50
		1	8	23.60	23.47	23.59	2	23.70	17.38	17.49	17.39	0	17.50
		1	14	23.60	23.43	23.59	2	23.70	17.27	17.44	17.31	0	17.50
		8	0	22.32	22.25	22.29	3	22.70	17.10	17.24	17.10	0	17.50
	16QAM	8	4	22.30	22.22	22.31	3	22.70	17.01	17.22	17.09	0	17.50
		8	7	22.31	22.23	22.28	3	22.70	17.03	17.24	17.09	0	17.50
		15	0	22.24	22.16	22.29	3	22.70	17.00	17.20	17.04	0	17.50
		1	0	25.43	25.43	25.50	0	25.70	17.13	17.04	17.18	0	17.50
		1	3	25.45	25.43	25.48	0	25.70	17.18	16.99	17.15	0	17.50
		1	5	25.49	25.49	25.47	0	25.70	17.21	17.02	17.19	0	17.50
	64QAM	3	0	25.31	25.32	25.38	0	25.70	17.01	16.97	17.06	0	17.50
		3	1	25.37	25.32	25.37	0	25.70	17.06	16.94	17.05	0	17.50
		3	3	25.37	25.33	25.39	0	25.70	17.07	16.91	17.05	0	17.50
		6	0	24.40	24.25	24.33	1	24.70	17.12	16.99	17.15	0	17.50
		1	0	24.70	24.65	24.70	1	24.70	17.45	17.32	17.49	0	17.50
		1	3	24.05	24.64	24.62	1	24.70	17.48	17.30	17.47	0	17.50
1.4 MHz	QPSK	1	5	24.15	24.66	24.66	1	24.70	17.49	17.28	17.50	0	17.50
		3	0	23.43	23.47	23.53	1	24.70	17.22	17.07	17.23	0	17.50
		3	1	23.49	23.46	23.52	1	24.70	17.31	17.07	17.24	0	17.50
		3	3	23.47	23.45	23.50	1	24.70	17.30	17.06	17.22	0	17.50
		6	0	23.31	23.36	23.50	2	23.70	17.32	17.08	17.19	0	17.50
		1	0	23.43	23.62	23.57	2	23.70	17.48	17.48	17.42	0	17.50
	16QAM	1	3	23.56	23.67	23.62	2	23.70	17.40	17.45	17.38	0	17.50
		1	5	23.66	23.66	23.52	2	23.70	17.41	17.47	17.44	0	17.50
		3	0	23.46	23.43	23.38	2	23.70	17.33	17.27	17.27	0	17.50
		3	1	23.49	23.41	23.36	2	23.70	17.35	17.31	17.26	0	17.50
		3	3	23.51	23.34	23.36	2	23.70	17.37	17.31	17.26	0	17.50
		6	0	22.42	22.29	22.30	3	22.70	17.20	17.25	17.17	0	17.50

LTE Band 66 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	21.78	21.54	21.62	0	22.00	18.74	18.54	18.63	0	19.50
		1	49	21.90	21.90	21.81	0	22.00	19.00	19.10	19.20	0	19.50
		1	99	21.60	21.68	21.64	0	22.00	18.52	18.63	18.75	0	19.50
		50	0	21.68	21.58	21.72	0	22.00	18.65	18.58	18.80	0	19.50
		50	24	21.75	21.90	21.79	0	22.00	19.00	19.00	19.30	0	19.50
		50	50	21.55	21.60	21.64	0	22.00	18.57	18.62	18.90	0	19.50
		100	0	21.65	21.80	21.77	0	22.00	18.56	19.25	18.75	0	19.50
	16QAM	1	0	21.82	21.94	21.95	0	22.00	18.89	18.85	18.83	0	19.50
		1	49	21.95	21.99	21.86	0	22.00	18.88	18.99	18.95	0	19.50
		1	99	21.88	21.76	21.70	0	22.00	18.82	18.94	18.97	0	19.50
		50	0	20.78	20.67	20.77	0.5	21.50	18.70	18.64	18.75	0	19.50
		50	24	20.70	20.67	20.86	0.5	21.50	18.60	18.67	18.80	0	19.50
		50	50	20.57	20.65	20.78	0.5	21.50	18.50	18.70	18.73	0	19.50
		100	0	20.71	20.66	20.87	0.5	21.50	18.60	18.66	18.79	0	19.50
	64QAM	1	0	20.76	20.61	20.51	0.5	21.50	18.91	18.91	18.91	0	19.50
		1	49	20.70	20.72	20.63	0.5	21.50	18.73	18.92	18.83	0	19.50
		1	99	20.64	20.50	20.66	0.5	21.50	18.65	18.90	19.00	0	19.50
		50	0	19.81	19.64	19.75	1.5	20.50	18.84	18.62	18.67	0	19.50
		50	24	19.72	19.67	19.81	1.5	20.50	18.75	18.64	18.75	0	19.50
		50	50	19.59	19.66	19.71	1.5	20.50	18.62	18.62	18.67	0	19.50
		100	0	19.68	19.66	19.79	1.5	20.50	18.71	18.62	18.73	0	19.50
15 MHz	QPSK	1	0	21.29	21.14	21.31	0	22.00	18.81	18.57	18.78	0	19.50
		1	37	21.21	21.14	21.21	0	22.00	18.71	18.58	18.69	0	19.50
		1	74	21.18	21.09	21.17	0	22.00	18.73	18.54	18.67	0	19.50
		36	0	21.42	21.26	21.51	0	22.00	18.71	18.56	18.79	0	19.50
		36	20	21.41	21.32	21.40	0	22.00	18.71	18.62	18.70	0	19.50
		36	39	21.33	21.31	21.39	0	22.00	18.63	18.59	18.70	0	19.50
		75	0	21.39	21.31	21.38	0	22.00	18.69	18.60	18.70	0	19.50
	16QAM	1	0	21.50	21.61	21.45	0	22.00	18.87	18.93	18.72	0	19.50
		1	37	21.41	21.64	21.45	0	22.00	18.73	18.96	18.94	0	19.50
		1	74	21.47	21.31	21.41	0	22.00	18.82	18.90	19.00	0	19.50
		36	0	20.74	20.65	20.88	0.5	21.50	18.77	18.60	18.86	0	19.50
		36	20	20.75	20.70	20.78	0.5	21.50	18.76	18.66	18.78	0	19.50
		36	39	20.69	20.68	20.76	0.5	21.50	18.68	18.67	18.78	0	19.50
		75	0	20.74	20.68	20.74	0.5	21.50	18.74	18.64	18.74	0	19.50
	64QAM	1	0	20.54	20.95	20.52	0.5	21.50	18.81	18.81	18.88	0	19.50
		1	37	20.53	20.54	20.92	0.5	21.50	18.75	18.81	18.74	0	19.50
		1	74	20.56	20.74	20.98	0.5	21.50	18.82	18.79	18.78	0	19.50
		36	0	19.80	19.63	19.82	1.5	20.50	18.81	18.64	18.75	0	19.50
		36	20	19.80	19.70	19.72	1.5	20.50	18.81	18.69	18.68	0	19.50
		36	39	19.68	19.69	19.72	1.5	20.50	18.76	18.67	18.67	0	19.50
		75	0	19.72	19.65	19.67	1.5	20.50	18.78	18.64	18.62	0	19.50
10 MHz	QPSK	1	0	21.69	21.52	21.68	0	22.00	18.82	18.59	18.79	0	19.50
		1	25	21.56	21.51	21.58	0	22.00	18.70	18.62	18.71	0	19.50
		1	49	21.59	21.52	21.58	0	22.00	18.64	18.62	18.72	0	19.50
		25	0	21.73	21.59	21.69	0	22.00	18.77	18.58	18.70	0	19.50
		25	12	21.65	21.64	21.69	0	22.00	18.68	18.65	18.69	0	19.50
		25	25	21.65	21.64	21.69	0	22.00	18.69	18.66	18.70	0	19.50
		50	0	21.64	21.64	21.69	0	22.00	18.69	18.62	18.69	0	19.50
	16QAM	1	0	21.73	21.95	21.69	0	22.00	18.97	18.90	18.83	0	19.50
		1	25	21.51	21.58	21.62	0	22.00	18.82	18.98	18.98	0	19.50
		1	49	21.54	21.50	21.65	0	22.00	18.98	18.98	18.81	0	19.50
		25	0	20.67	20.56	20.66	0.5	21.50	18.84	18.64	18.75	0	19.50
		25	12	20.60	20.61	20.66	0.5	21.50	18.76	18.70	18.74	0	19.50
		25	25	20.60	20.61	20.65	0.5	21.50	18.75	18.70	18.75	0	19.50
		50	0	20.60	20.61	20.63	0.5	21.50	18.72	18.66	18.74	0	19.50
	64QAM	1	0	20.66	20.51	20.57	0.5	21.50	18.80	18.84	18.86	0	19.50
		1	25	20.60	20.50	20.53	0.5	21.50	18.88	18.81	18.73	0	19.50
		1	49	20.51	20.52	20.53	0.5	21.50	18.88	18.84	18.83	0	19.50
		25	0	19.84	19.64	19.68	1.5	20.50	18.89	18.65	18.64	0	19.50
		25	12	19.78	19.70	19.69	1.5	20.50	18.79	18.68	18.64	0	19.50
		25	25	19.79	19.74	19.69	1.5	20.50	18.80	18.69	18.64	0	19.50
		50	0	19.79	19.70	19.67	1.5	20.50	18.80	18.67	18.63	0	19.50

LTE Band 66 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.81	21.61	21.71	0	22.00	18.75	18.54	18.64	0	19.50
		1	12	21.69	21.60	21.60	0	22.00	18.65	18.58	18.61	0	19.50
		1	24	21.65	21.65	21.60	0	22.00	18.58	18.59	18.63	0	19.50
		12	0	21.64	21.54	21.57	0	22.00	18.61	18.53	18.58	0	19.50
		12	7	21.62	21.52	21.55	0	22.00	18.61	18.51	18.57	0	19.50
		12	13	21.53	21.53	21.57	0	22.00	18.54	18.51	18.57	0	19.50
	16QAM	25	0	21.57	21.55	21.55	0	22.00	18.60	18.50	18.57	0	19.50
		1	0	21.77	21.84	21.58	0	22.00	18.79	18.85	18.64	0	19.50
		1	12	21.99	21.85	21.73	0	22.00	18.71	18.88	18.99	0	19.50
		1	24	21.98	21.63	21.73	0	22.00	18.63	18.93	18.62	0	19.50
		12	0	20.60	20.57	20.62	0.5	21.50	18.69	18.52	18.61	0	19.50
		12	7	20.60	20.58	20.60	0.5	21.50	18.65	18.52	18.59	0	19.50
	64QAM	12	13	20.54	20.57	20.60	0.5	21.50	18.58	18.54	18.59	0	19.50
		25	0	20.61	20.54	20.58	0.5	21.50	18.57	18.58	18.58	0	19.50
		1	0	20.56	20.94	20.91	0.5	21.50	18.63	18.79	18.91	0	19.50
		1	12	20.62	20.51	20.56	0.5	21.50	18.95	18.81	18.87	0	19.50
		1	24	20.86	20.95	20.52	0.5	21.50	18.94	18.84	18.92	0	19.50
		12	0	19.70	19.51	19.56	1.5	20.50	18.75	18.65	18.50	0	19.50
3 MHz	QPSK	12	7	19.68	19.87	19.56	1.5	20.50	18.73	18.64	18.90	0	19.50
		12	13	19.64	19.73	19.56	1.5	20.50	18.62	18.68	18.94	0	19.50
		25	0	19.65	19.51	19.56	1.5	20.50	18.69	18.61	18.85	0	19.50
	16QAM	1	0	21.64	21.57	21.58	0	22.00	18.68	18.52	18.54	0	19.50
		1	8	21.66	21.62	21.61	0	22.00	18.66	18.57	18.59	0	19.50
		1	14	21.62	21.57	21.62	0	22.00	18.61	18.51	18.54	0	19.50
		8	0	21.59	21.85	21.78	0	22.00	18.60	18.56	18.55	0	19.50
		8	4	21.60	21.69	21.59	0	22.00	18.59	18.55	18.54	0	19.50
		8	7	21.61	21.66	21.52	0	22.00	18.59	18.56	18.55	0	19.50
	64QAM	15	0	21.60	21.50	21.66	0	22.00	18.63	18.55	18.54	0	19.50
		1	0	21.61	21.62	21.51	0	22.00	18.98	18.84	18.80	0	19.50
		1	8	21.71	21.64	21.55	0	22.00	18.97	18.96	18.87	0	19.50
		1	14	21.75	21.62	21.60	0	22.00	18.96	18.86	18.81	0	19.50
		8	0	20.72	20.68	20.70	0.5	21.50	18.64	18.52	18.57	0	19.50
		8	4	20.73	20.66	20.68	0.5	21.50	18.63	18.51	18.56	0	19.50
1.4 MHz	QPSK	8	7	20.72	20.68	20.74	0.5	21.50	18.62	18.53	18.57	0	19.50
		15	0	20.72	20.64	20.64	0.5	21.50	18.58	18.56	18.51	0	19.50
		1	0	20.74	20.50	20.65	0.5	21.50	18.93	18.77	18.60	0	19.50
		1	8	20.70	20.52	20.71	0.5	21.50	18.91	18.76	18.67	0	19.50
		1	14	20.70	20.51	20.65	0.5	21.50	18.87	18.71	18.61	0	19.50
		8	0	19.51	19.71	19.79	1.5	20.50	18.56	18.63	18.80	0	19.50
	16QAM	8	4	19.50	19.67	19.53	1.5	20.50	18.56	18.59	18.53	0	19.50
		8	7	19.53	19.66	19.65	1.5	20.50	18.56	18.61	18.67	0	19.50
		15	0	19.56	19.50	19.77	1.5	20.50	18.56	18.50	18.85	0	19.50
		1	0	21.43	21.37	21.36	0	22.00	18.74	18.52	18.58	0	19.50
		1	3	21.41	21.32	21.33	0	22.00	18.61	18.51	18.56	0	19.50
		1	5	21.45	21.34	21.35	0	22.00	18.66	18.54	18.57	0	19.50
	64QAM	3	0	21.30	21.26	21.22	0	22.00	18.77	18.60	18.58	0	19.50
		3	1	21.29	21.25	21.23	0	22.00	18.72	18.58	18.57	0	19.50
		3	3	21.30	21.24	21.23	0	22.00	18.72	18.59	18.57	0	19.50
		6	0	21.23	21.18	21.21	0	22.00	18.69	18.54	18.51	0	19.50
		1	0	21.74	21.47	21.65	0	22.00	18.91	18.71	18.81	0	19.50
		1	3	21.66	21.49	21.58	0	22.00	18.89	18.64	18.85	0	19.50
1.4 MHz	16QAM	1	5	21.68	21.50	21.61	0	22.00	18.84	18.71	18.79	0	19.50
		3	0	21.45	21.23	21.31	0	22.00	18.68	18.64	18.57	0	19.50
		3	1	21.44	21.26	21.30	0	22.00	18.59	18.67	18.57	0	19.50
		3	3	21.45	21.26	21.32	0	22.00	18.62	18.64	18.55	0	19.50
		6	0	20.86	20.68	20.64	0.5	21.50	18.52	18.54	18.51	0	19.50
		1	0	20.77	20.57	20.81	0.5	21.50	18.63	18.72	18.87	0	19.50
	64QAM	1	3	20.66	20.64	20.84	0.5	21.50	18.86	18.77	18.81	0	19.50
		1	5	20.72	20.55	20.86	0.5	21.50	18.88	18.67	18.73	0	19.50
		3	0	20.57	20.79	20.54	0.5	21.50	18.84	18.59	18.53	0	19.50
		3	1	20.55	20.84	20.55	0.5	21.50	18.78	18.56	18.56	0	19.50
		3	3	20.54	20.61	20.53	0.5	21.50	18.79	18.57	18.55	0	19.50
		6	0	19.55	19.61	19.77	1.5	20.50	18.67	18.52	18.98	0	19.50

LTE Band 66 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	24.85	24.61	24.60	0	25.00	20.48	20.20	20.27	0	21.00
		1	49	24.90	24.75	24.63	0	25.00	20.85	20.81	21.00	0	21.00
		1	99	24.51	24.67	24.60	0	25.00	20.09	20.25	20.32	0	21.00
		50	0	23.83	23.68	23.70	1	24.00	20.43	20.22	20.30	0	21.00
		50	24	23.84	23.80	23.76	1	24.00	20.75	20.85	21.00	0	21.00
		50	50	23.66	23.59	23.75	1	24.00	20.24	20.16	20.24	0	21.00
		100	0	23.60	23.67	23.60	1	24.00	20.42	20.95	20.26	0	21.00
	16QAM	1	0	23.18	23.96	23.96	1	24.00	20.72	20.52	20.59	0	21.00
		1	49	23.11	23.96	23.95	1	24.00	20.64	20.50	20.59	0	21.00
		1	99	23.85	23.99	23.99	1	24.00	20.53	20.58	20.65	0	21.00
		50	0	22.89	22.72	22.91	2	23.00	20.45	20.27	20.35	0	21.00
		50	24	22.89	22.70	22.89	2	23.00	20.46	20.24	20.30	0	21.00
		50	50	22.67	22.66	22.19	2	23.00	20.27	20.19	20.26	0	21.00
		100	0	22.83	22.67	22.29	2	23.00	20.45	20.22	20.27	0	21.00
	64QAM	1	0	22.93	22.63	22.39	2	23.00	20.60	20.63	20.72	0	21.00
		1	49	22.83	22.68	22.41	2	23.00	20.52	20.61	20.73	0	21.00
		1	99	22.61	22.79	22.46	2	23.00	20.27	20.69	20.71	0	21.00
		50	0	21.89	21.70	21.63	3	22.00	20.49	20.34	20.42	0	21.00
		50	24	21.91	21.72	21.45	3	22.00	20.50	20.33	20.40	0	21.00
		50	50	21.73	21.70	21.54	3	22.00	20.33	20.30	20.36	0	21.00
		100	0	21.86	21.72	21.50	3	22.00	20.50	20.32	20.37	0	21.00
15 MHz	QPSK	1	0	24.82	24.67	24.71	0	25.00	20.45	20.21	20.35	0	21.00
		1	37	24.81	24.66	24.70	0	25.00	20.34	20.15	20.26	0	21.00
		1	74	24.64	24.61	24.68	0	25.00	20.14	20.07	20.29	0	21.00
		36	0	23.79	23.65	23.73	1	24.00	20.32	20.16	20.30	0	21.00
		36	20	23.89	23.65	23.70	1	24.00	20.39	20.16	20.27	0	21.00
		36	39	23.90	23.57	23.74	1	24.00	20.37	20.10	20.32	0	21.00
		75	0	23.80	23.63	23.69	1	24.00	20.37	20.15	20.27	0	21.00
	16QAM	1	0	23.91	23.88	23.98	1	24.00	20.70	20.54	20.72	0	21.00
		1	37	23.83	23.87	23.93	1	24.00	20.56	20.48	20.62	0	21.00
		1	74	23.84	23.79	23.96	1	24.00	20.42	20.41	20.60	0	21.00
		36	0	22.82	22.69	22.75	2	23.00	20.35	20.21	20.35	0	21.00
		36	20	22.92	22.75	22.77	2	23.00	20.41	20.21	20.34	0	21.00
		36	39	22.91	22.68	22.82	2	23.00	20.40	20.14	20.36	0	21.00
		75	0	22.89	22.72	22.73	2	23.00	20.38	20.18	20.27	0	21.00
	64QAM	1	0	22.95	22.96	22.95	2	23.00	20.70	20.61	20.64	0	21.00
		1	37	22.91	22.96	22.91	2	23.00	20.74	20.53	20.53	0	21.00
		1	74	22.88	22.88	22.98	2	23.00	20.65	20.52	20.54	0	21.00
		36	0	21.82	21.75	21.87	3	22.00	20.43	20.40	20.46	0	21.00
		36	20	21.91	21.76	21.84	3	22.00	20.51	20.39	20.44	0	21.00
		36	39	21.92	21.68	21.86	3	22.00	20.52	20.32	20.49	0	21.00
		75	0	21.88	21.72	21.80	3	22.00	20.48	20.35	20.40	0	21.00
10 MHz	QPSK	1	0	24.85	24.67	24.70	0	25.00	20.46	20.13	20.39	0	21.00
		1	25	24.74	24.67	24.77	0	25.00	20.34	20.15	20.41	0	21.00
		1	49	24.88	24.68	24.77	0	25.00	20.41	20.12	20.43	0	21.00
		25	0	23.84	23.70	23.71	1	24.00	20.34	20.20	20.34	0	21.00
		25	12	23.78	23.70	23.74	1	24.00	20.29	20.19	20.38	0	21.00
		25	25	23.84	23.61	23.83	1	24.00	20.37	20.12	20.46	0	21.00
		50	0	23.71	23.63	23.76	1	24.00	20.28	20.19	20.38	0	21.00
	16QAM	1	0	23.97	23.75	23.94	1	24.00	20.70	20.54	20.74	0	21.00
		1	25	23.90	23.80	23.95	1	24.00	20.57	20.49	20.72	0	21.00
		1	49	23.99	23.77	23.94	1	24.00	20.62	20.47	20.74	0	21.00
		25	0	22.75	22.60	22.71	2	23.00	20.38	20.25	20.38	0	21.00
		25	12	22.81	22.69	22.85	2	23.00	20.32	20.25	20.43	0	21.00
		25	25	22.86	22.64	22.89	2	23.00	20.40	20.17	20.51	0	21.00
		50	0	22.76	22.68	22.85	2	23.00	20.31	20.23	20.43	0	21.00
	64QAM	1	0	22.04	22.82	22.88	2	23.00	20.72	20.60	20.71	0	21.00
		1	25	22.88	22.77	22.94	2	23.00	20.64	20.56	20.66	0	21.00
		1	49	22.98	22.80	22.98	2	23.00	20.75	20.51	20.63	0	21.00
		25	0	21.90	21.73	21.84	3	22.00	20.56	20.46	20.49	0	21.00
		25	12	21.83	21.71	21.90	3	22.00	20.51	20.44	20.53	0	21.00
		25	25	21.93	21.67	21.98	3	22.00	20.59	20.39	20.60	0	21.00
		50	0	21.84	21.72	21.91	3	22.00	20.50	20.44	20.54	0	21.00

LTE Band 66 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	24.70	24.65	24.71	0	25.00	20.36	20.21	20.31	0	21.00
		1	12	24.61	24.65	24.78	0	25.00	20.26	20.17	20.34	0	21.00
		1	24	24.62	24.61	24.67	0	25.00	20.25	20.12	20.25	0	21.00
		12	0	23.71	23.62	23.68	1	24.00	20.32	20.11	20.24	0	21.00
		12	7	23.64	23.62	23.75	1	24.00	20.23	20.10	20.29	0	21.00
		12	13	23.57	23.61	23.68	1	24.00	20.18	20.09	20.22	0	21.00
	16QAM	25	0	23.61	23.58	23.76	1	24.00	20.22	20.12	20.28	0	21.00
		1	0	23.91	23.93	23.94	1	24.00	20.75	20.47	20.73	0	21.00
		1	12	23.87	23.99	23.98	1	24.00	20.68	20.43	20.74	0	21.00
		1	24	23.86	23.93	23.98	1	24.00	20.61	20.39	20.66	0	21.00
		12	0	22.73	22.60	22.73	2	23.00	20.29	20.14	20.27	0	21.00
		12	7	22.65	22.61	22.77	2	23.00	20.21	20.13	20.33	0	21.00
	64QAM	12	13	22.59	22.61	22.70	2	23.00	20.15	20.13	20.26	0	21.00
		25	0	22.68	22.62	22.77	2	23.00	20.24	20.09	20.28	0	21.00
		1	0	22.65	22.90	22.93	2	23.00	20.63	20.62	20.69	0	21.00
		1	12	22.92	22.84	22.96	2	23.00	20.58	20.50	20.71	0	21.00
		1	24	22.94	22.85	22.99	2	23.00	20.62	20.51	20.72	0	21.00
		12	0	21.74	21.63	21.79	3	22.00	20.40	20.24	20.37	0	21.00
3 MHz	QPSK	12	7	21.66	21.61	21.85	3	22.00	20.36	20.20	20.43	0	21.00
		12	13	21.61	21.62	21.75	3	22.00	20.30	20.22	20.34	0	21.00
		25	0	21.69	21.58	21.81	3	22.00	20.33	20.24	20.42	0	21.00
	16QAM	1	0	24.70	24.62	24.28	0	25.00	20.33	20.46	20.26	0	21.00
		1	8	24.70	24.67	24.25	0	25.00	20.33	20.52	20.22	0	21.00
		1	14	24.63	24.78	24.07	0	25.00	20.28	20.44	20.13	0	21.00
		8	0	23.66	23.83	23.33	1	24.00	20.25	20.41	20.13	0	21.00
		8	4	23.59	23.79	23.36	1	24.00	20.17	20.40	20.06	0	21.00
		8	7	23.60	23.85	23.31	1	24.00	20.19	20.42	20.06	0	21.00
	64QAM	15	0	23.60	23.97	23.30	1	24.00	20.16	20.41	20.07	0	21.00
		1	0	23.89	23.20	23.73	1	24.00	20.52	20.41	20.56	0	21.00
		1	8	23.85	23.23	23.53	1	24.00	20.54	20.40	20.60	0	21.00
		1	14	23.80	23.20	23.52	1	24.00	20.48	20.30	20.44	0	21.00
		8	0	22.55	22.87	22.17	2	23.00	20.24	20.38	20.15	0	21.00
		8	4	22.44	22.87	22.08	2	23.00	20.17	20.37	20.10	0	21.00
1.4 MHz	QPSK	8	7	22.37	22.87	22.07	2	23.00	20.18	20.34	20.09	0	21.00
		15	0	22.29	22.84	22.08	2	23.00	20.12	20.35	20.06	0	21.00
		1	0	22.63	22.12	22.23	2	23.00	20.48	20.44	20.55	0	21.00
		1	8	22.62	22.23	22.21	2	23.00	20.50	20.50	20.51	0	21.00
		1	14	22.54	22.10	22.28	2	23.00	20.40	20.47	20.36	0	21.00
		8	0	21.24	21.76	21.85	3	22.00	20.30	20.15	20.27	0	21.00
	16QAM	8	4	21.17	21.66	21.78	3	22.00	20.21	20.15	20.23	0	21.00
		8	7	21.19	21.67	21.78	3	22.00	20.23	20.16	20.22	0	21.00
		15	0	21.18	21.92	21.77	3	22.00	20.22	20.10	20.13	0	21.00
		1	0	24.66	24.61	24.69	0	25.00	20.33	20.33	20.25	0	21.00
		1	3	24.71	24.63	24.72	0	25.00	20.31	20.31	20.24	0	21.00
		1	5	24.47	24.67	24.64	0	25.00	20.36	20.31	20.16	0	21.00
	64QAM	3	0	24.62	24.48	24.61	0	25.00	20.21	20.16	20.11	0	21.00
		3	1	24.26	24.49	24.60	0	25.00	20.22	20.17	20.12	0	21.00
		3	3	24.46	24.50	24.60	0	25.00	20.21	20.15	20.11	0	21.00
		6	0	23.48	23.45	23.54	1	24.00	20.22	20.09	20.06	0	21.00
		1	0	23.91	23.88	23.91	1	24.00	20.67	20.42	20.38	0	21.00
		1	3	23.89	23.92	23.97	1	24.00	20.61	20.41	20.43	0	21.00
1.4 MHz	16QAM	1	5	23.96	23.90	23.94	1	24.00	20.69	20.38	20.34	0	21.00
		3	0	23.71	23.67	23.76	1	24.00	20.33	20.18	20.17	0	21.00
		3	1	23.72	23.62	23.72	1	24.00	20.31	20.16	20.20	0	21.00
		3	3	23.70	23.64	23.73	1	24.00	20.31	20.16	20.19	0	21.00
		6	0	22.64	22.57	22.66	2	23.00	20.15	20.09	20.10	0	21.00
		1	0	22.96	22.76	22.87	2	23.00	20.56	20.66	20.44	0	21.00
	64QAM	1	3	22.96	22.83	22.85	2	23.00	20.52	20.60	20.53	0	21.00
		1	5	22.97	22.80	22.88	2	23.00	20.54	20.60	20.43	0	21.00
		3	0	22.78	22.64	22.74	2	23.00	20.38	20.31	20.32	0	21.00
		3	1	22.80	22.65	22.72	2	23.00	20.36	20.32	20.32	0	21.00
		3	3	22.83	22.64	22.67	2	23.00	20.36	20.32	20.30	0	21.00
		6	0	21.68	21.56	21.64	3	22.00	20.31	20.17	20.25	0	21.00

LTE Band 66 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	21.00	20.90	21.10	0	21.25	21.38	21.45	21.33	0	21.50
		1	49	21.00	20.90	21.15	0	21.25	21.40	21.45	21.40	0	21.50
		1	99	20.97	20.80	21.11	0	21.25	21.06	21.29	21.17	0	21.50
		50	0	20.40	20.30	20.31	0	21.25	21.22	21.10	21.29	0	21.50
		50	24	21.00	20.75	21.00	0	21.25	21.45	21.20	21.30	0	21.50
		50	50	20.28	20.44	20.27	0	21.25	21.43	21.10	21.27	0	21.50
		100	0	20.41	21.00	20.31	0	21.25	21.10	21.20	21.19	0	21.50
	16QAM	1	0	20.45	20.38	20.42	0	21.25	21.21	21.08	21.12	0	21.50
		1	49	20.40	20.37	20.32	0	21.25	20.89	21.09	21.08	0	21.50
		1	99	20.27	20.43	20.32	0	21.25	20.87	21.27	21.00	0	21.50
		50	0	20.75	20.67	20.65	0.25	21.00	20.32	20.31	20.41	0.5	21.00
		50	24	20.74	20.65	20.68	0.25	21.00	20.27	20.30	20.40	0.5	21.00
		50	50	20.64	20.60	20.63	0.25	21.00	20.32	20.36	20.36	0.5	21.00
		100	0	20.72	20.63	20.65	0.25	21.00	20.26	20.30	20.37	0.5	21.00
	64QAM	1	0	20.74	20.60	20.74	0.25	21.00	20.41	20.57	20.61	0.5	21.00
		1	49	20.62	20.53	20.72	0.25	21.00	20.31	20.55	20.53	0.5	21.00
		1	99	20.51	20.67	20.75	0.25	21.00	20.20	20.64	20.55	0.5	21.00
		50	0	19.62	19.65	19.66	1.25	20.00	19.37	19.22	19.26	1.5	20.00
		50	24	19.57	19.63	19.68	1.25	20.00	19.33	19.19	19.22	1.5	20.00
		50	50	19.47	19.58	19.64	1.25	20.00	19.19	19.13	19.19	1.5	20.00
		100	0	19.56	19.63	19.65	1.25	20.00	19.30	19.18	19.22	1.5	20.00
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	21.22	21.07	21.24	0	21.25	21.24	21.03	21.25	0	21.50
		1	37	21.25	21.03	21.14	0	21.25	21.05	21.05	21.13	0	21.50
		1	74	21.11	21.05	21.11	0	21.25	21.00	21.09	21.04	0	21.50
		36	0	20.52	20.35	20.44	0	21.25	21.42	21.41	21.28	0	21.50
		36	20	20.55	20.43	20.43	0	21.25	21.47	21.47	21.48	0	21.50
		36	39	20.52	20.29	20.40	0	21.25	21.42	21.36	21.45	0	21.50
		75	0	20.54	20.33	20.42	0	21.25	21.45	21.45	21.45	0	21.50
	16QAM	1	0	20.47	20.32	20.40	0	21.25	21.16	21.02	21.14	0	21.50
		1	37	20.50	20.29	20.34	0	21.25	21.00	21.03	21.09	0	21.50
		1	74	20.33	20.30	20.38	0	21.25	20.92	21.09	21.05	0	21.50
		36	0	20.55	20.37	20.48	0.25	21.00	20.66	20.51	20.71	0.5	21.00
		36	20	20.57	20.41	20.46	0.25	21.00	20.62	20.55	20.68	0.5	21.00
		36	39	20.51	20.30	20.42	0.25	21.00	20.53	20.58	20.64	0.5	21.00
		75	0	20.54	20.34	20.43	0.25	21.00	20.56	20.52	20.63	0.5	21.00
	64QAM	1	0	20.71	20.61	20.60	0.25	21.00	20.57	20.39	20.36	0.5	21.00
		1	37	20.74	20.61	20.71	0.25	21.00	20.60	20.35	20.29	0.5	21.00
		1	74	20.61	20.64	20.71	0.25	21.00	20.37	20.39	20.36	0.5	21.00
		36	0	19.53	19.40	19.46	1.25	20.00	19.38	19.23	19.25	1.5	20.00
		36	20	19.55	19.45	19.46	1.25	20.00	19.40	19.30	19.22	1.5	20.00
		36	39	19.49	19.34	19.41	1.25	20.00	19.35	19.16	19.19	1.5	20.00
		75	0	19.52	19.37	19.39	1.25	20.00	19.36	19.18	19.17	1.5	20.00
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	21.12	20.99	21.04	0	21.25	21.27	21.27	21.29	0	21.50
		1	25	21.12	20.97	21.00	0	21.25	21.30	21.35	21.32	0	21.50
		1	49	21.07	20.92	21.00	0	21.25	21.33	21.35	21.39	0	21.50
		25	0	20.44	20.31	20.32	0	21.25	21.32	21.21	21.24	0	21.50
		25	12	20.45	20.34	20.29	0	21.25	21.23	21.37	21.33	0	21.50
		25	25	20.48	20.54	20.37	0	21.25	21.37	21.35	21.21	0	21.50
		50	0	20.45	20.30	20.31	0	21.25	21.33	21.22	21.34	0	21.50
	16QAM	1	0	20.55	20.39	20.41	0	21.25	21.19	21.05	21.24	0	21.50
		1	25	20.52	20.41	20.38	0	21.25	21.03	21.07	21.13	0	21.50
		1	49	20.50	20.34	20.43	0	21.25	20.90	21.19	21.12	0	21.50
		25	0	20.65	20.46	20.52	0.25	21.00	20.43	20.25	20.39	0.5	21.00
		25	12	20.64	20.52	20.48	0.25	21.00	20.36	20.29	20.37	0.5	21.00
		25	25	20.66	20.41	20.52	0.25	21.00	20.29	20.33	20.36	0.5	21.00
		50	0	20.64	20.44	20.48	0.25	21.00	20.34	20.26	20.33	0.5	21.00
	64QAM	1	0	20.74	20.38	20.64	0.25	21.00	20.52	20.45	20.43	0.5	21.00
		1	25	20.74	20.71	20.58	0.25	21.00	20.48	20.44	20.42	0.5	21.00
		1	49	20.71	20.58	20.62	0.25	21.00	20.49	20.43	20.42	0.5	21.00
		25	0	19.63	19.47	19.49	1.25	20.00	19.41	19.29	19.27	1.5	20.00
		25	12	19.63	19.52	19.46	1.25	20.00	19.41	19.30	19.24	1.5	20.00
		25	25	19.66	19.42	19.52	1.25	20.00	19.43	19.20	19.32	1.5	20.00
		50	0	19.64	19.46	19.46	1.25	20.00	19.42	19.25	19.24	1.5	20.00

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.15	21.00	21.04	0	21.25	21.20	21.31	21.22	0	21.50
		1	12	21.16	20.98	21.08	0	21.25	21.22	21.23	21.22	0	21.50
		1	24	21.20	20.97	21.07	0	21.25	21.31	21.33	21.40	0	21.50
		12	0	20.46	20.28	20.25	0	21.25	21.28	21.29	21.21	0	21.50
		12	7	20.45	20.26	20.32	0	21.25	21.27	21.39	21.26	0	21.50
		12	13	20.44	20.53	20.31	0	21.25	21.23	21.31	21.33	0	21.50
	16QAM	25	0	20.39	20.53	20.33	0	21.25	21.32	21.26	21.30	0	21.50
		1	0	20.50	20.29	20.39	0	21.25	21.20	20.95	21.16	0	21.50
		1	12	20.49	20.30	20.41	0	21.25	21.21	20.98	21.15	0	21.50
		1	24	20.52	20.30	20.44	0	21.25	21.08	21.08	21.18	0	21.50
		12	0	20.65	20.53	20.49	0.25	21.00	20.53	20.43	20.52	0.5	21.00
		12	7	20.61	20.50	20.52	0.25	21.00	20.50	20.43	20.51	0.5	21.00
	64QAM	12	13	20.61	20.43	20.49	0.25	21.00	20.47	20.43	20.49	0.5	21.00
		25	0	20.61	20.43	20.53	0.25	21.00	20.53	20.40	20.48	0.5	21.00
		1	0	20.57	20.41	20.46	0.25	21.00	20.50	20.36	20.50	0.5	21.00
		1	12	20.60	20.40	20.49	0.25	21.00	20.45	20.34	20.51	0.5	21.00
		1	24	20.60	20.41	20.51	0.25	21.00	20.52	20.34	20.54	0.5	21.00
		12	0	19.71	19.55	19.54	1.25	20.00	19.23	19.09	19.07	1.5	20.00
3 MHz	QPSK	12	7	19.69	19.55	19.57	1.25	20.00	19.21	19.04	19.10	1.5	20.00
		12	13	19.70	19.48	19.56	1.25	20.00	19.21	19.10	19.11	1.5	20.00
		25	0	19.65	19.45	19.55	1.25	20.00	19.16	19.02	19.11	1.5	20.00
	16QAM	1	0	21.09	21.01	21.00	0	21.25	21.30	21.32	21.37	0	21.50
		1	8	21.16	20.99	21.06	0	21.25	21.38	21.25	21.29	0	21.50
		1	14	21.08	20.90	20.97	0	21.25	21.33	21.35	21.27	0	21.50
		8	0	20.39	20.27	20.31	0	21.25	21.32	21.35	21.26	0	21.50
		8	4	20.39	20.26	20.30	0	21.25	21.20	21.28	21.29	0	21.50
		8	7	20.39	20.33	20.30	0	21.25	21.22	21.22	21.20	0	21.50
	64QAM	15	0	20.40	20.33	20.31	0	21.25	21.31	21.39	21.21	0	21.50
		1	0	20.54	20.44	20.47	0	21.25	20.98	20.86	20.94	0	21.50
		1	8	20.54	20.45	20.44	0	21.25	21.00	20.93	20.98	0	21.50
		1	14	20.57	20.34	20.40	0	21.25	20.94	20.87	20.92	0	21.50
		8	0	20.53	20.42	20.40	0.25	21.00	20.41	20.30	20.34	0.5	21.00
		8	4	20.51	20.38	20.39	0.25	21.00	20.38	20.28	20.33	0.5	21.00
1.4 MHz	QPSK	8	7	20.53	20.33	20.40	0.25	21.00	20.39	20.29	20.33	0.5	21.00
		15	0	20.49	20.28	20.37	0.25	21.00	20.36	20.25	20.31	0.5	21.00
		1	0	20.49	20.37	20.53	0.25	21.00	20.25	20.19	20.15	0.5	21.00
		1	8	20.52	20.41	20.61	0.25	21.00	20.39	20.27	20.24	0.5	21.00
		1	14	20.51	20.34	20.52	0.25	21.00	20.26	20.19	20.24	0.5	21.00
		8	0	19.49	19.34	19.43	1.25	20.00	19.23	19.18	19.14	1.5	20.00
	16QAM	8	4	19.46	19.34	19.40	1.25	20.00	19.23	19.18	19.14	1.5	20.00
		8	7	19.49	19.27	19.41	1.25	20.00	19.23	19.12	19.14	1.5	20.00
		15	0	19.48	19.25	19.39	1.25	20.00	19.22	19.05	19.07	1.5	20.00
		1	0	21.23	21.12	21.03	0	21.25	21.30	21.35	21.23	0	21.50
		1	3	21.20	21.02	21.02	0	21.25	21.36	21.21	21.36	0	21.50
		1	5	21.24	21.01	21.09	0	21.25	21.27	21.37	21.31	0	21.50
	64QAM	3	0	21.09	20.94	20.88	0	21.25	21.20	21.35	21.23	0	21.50
		3	1	21.07	20.93	20.88	0	21.25	21.34	21.27	21.22	0	21.50
		3	3	21.07	20.87	20.90	0	21.25	21.28	21.29	21.32	0	21.50
		6	0	20.40	20.32	20.25	0	21.25	21.24	21.36	21.39	0	21.50
		1	0	20.51	20.43	20.85	0	21.25	20.98	20.82	21.01	0	21.50
		1	3	20.49	20.73	20.71	0	21.25	20.95	20.85	20.97	0	21.50
1.4 MHz	16QAM	1	5	20.51	20.51	20.79	0	21.25	21.07	20.82	20.96	0	21.50
		3	0	20.18	20.08	20.04	0.25	21.00	20.90	20.84	20.75	0.5	21.00
		3	1	20.19	20.07	20.04	0.25	21.00	20.85	20.79	20.90	0.5	21.00
		3	3	20.21	20.04	20.02	0.25	21.00	20.87	20.79	20.86	0.5	21.00
		6	0	20.13	20.94	20.95	0.25	21.00	20.78	20.84	20.75	0.5	21.00
		1	0	20.60	20.44	20.18	0.25	21.00	20.84	20.86	20.89	0.5	21.00
	64QAM	1	3	20.58	20.44	20.20	0.25	21.00	20.78	20.72	20.76	0.5	21.00
		1	5	20.61	20.36	20.30	0.25	21.00	20.88	20.73	20.86	0.5	21.00
		3	0	19.20	19.05	19.02	1.25	20.00	19.90	19.87	19.85	1.5	20.00
		3	1	19.18	19.06	19.01	1.25	20.00	19.85	19.71	19.88	1.5	20.00
		3	3	19.21	19.47	19.02	1.25	20.00	19.83	19.87	19.71	1.5	20.00
		6	0	19.55	19.33	19.44	1.25	20.00	19.89	19.78	19.90	1.5	20.00

9.5. LTE Up-Link Carrier Aggregation

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

For inter-band carrier aggregation with uplink assigned to one E-UTRA band (Table 5.6A-1), the requirements in subclause 6.2.3 apply.

For inter-band carrier aggregation with one component carrier per operating band and the uplink active in two E-UTRA bands, the requirements in subclause 6.2.3 apply for each uplink component carrier.

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration				MPR (dB)
	25 RB	50 RB	75 RB	100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPKD modulation for the corresponding transmission bandwidth.

For intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A-1 is specified as follows

$$\text{MPR} = \text{CEIL} \{ \min(M_A, M_{\text{IM5}}), 0.5 \}$$

Where M_A is defined as follows

$$M_A = \begin{cases} 8.2 & ; 0 \leq A < 0.025 \\ 9.2 - 40A & ; 0.025 \leq A < 0.05 \\ 8 - 16A & ; 0.05 \leq A < 0.25 \\ 4.83 - 3.33A & ; 0.25 \leq A \leq 0.4 \end{cases}$$

$$3.83 - 0.83A \quad ; 0.4 \leq A \leq 1$$

and M_{IM5} is defined as follows

$$M_{IM5} = \begin{aligned} &4.5 \quad ; \Delta_{IM5} < 1.5 * BW_{Channel_CA} \\ &6.0 \quad ; 1.5 * BW_{Channel_CA} \leq \Delta_{IM5} < BW_{Channel_CA}/2 + \Delta f_{00B} \\ &M_A \quad ; \Delta_{IM5} \geq BW_{Channel_CA}/2 + \Delta f_{00B} \end{aligned}$$

Where

$$A = N_{RB_alloc} / N_{RB_agg}$$

$$\Delta_{IM5} = \max(|F_{C_agg} - (3 * F_{agg_alloc_low} - 2 * F_{agg_alloc_high})|, |F_{C_agg} - (3 * F_{agg_alloc_high} - 2 * F_{agg_alloc_low})|)$$

$CEIL\{M_A, 0.5\}$ means rounding upwards to closest 0.5dB, i.e. $MPR \in [3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5]$

For intra-band carrier aggregation, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) on all component carriers within the slot; the maximum MPR over the two slots is then applied for the entire subframe.

For intra-band non-contiguous carrier aggregation with one uplink carrier on the PCC, the requirements in the subclause 6.2.3 apply. For intra-band non-contiguous aggregation with two uplink carriers the MPR is defined for those E-UTRA bands where maximum possible $W_{GAP} \leq 42.2$ MHz as follows

$$MPR = CEIL\{M_A, 0.5\}$$

Where M_N is defined as follows

$$M_N = \begin{aligned} &-0.125N + 18.25 \quad ; 2 \leq N \leq 50 \\ &-0.0333 N + 13.67 \quad ; 50 < N \leq 200 \end{aligned}$$

Where $N = N_{RB_alloc}$ is the number of allocated resource blocks.

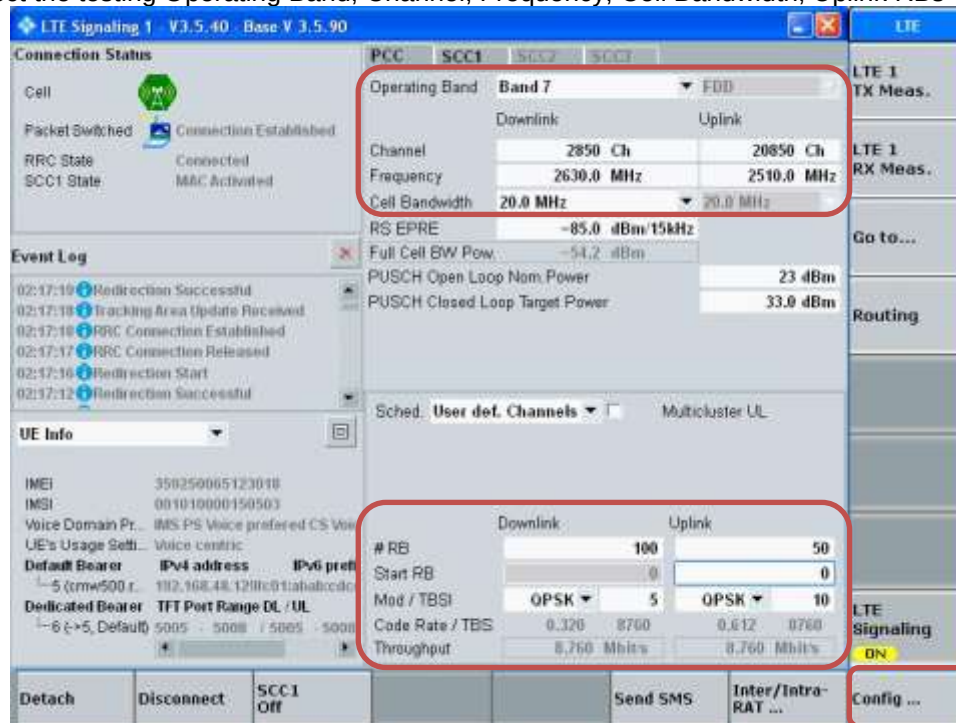
For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

LTE Carrier Aggregation Test Signal Set-up Procedure

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

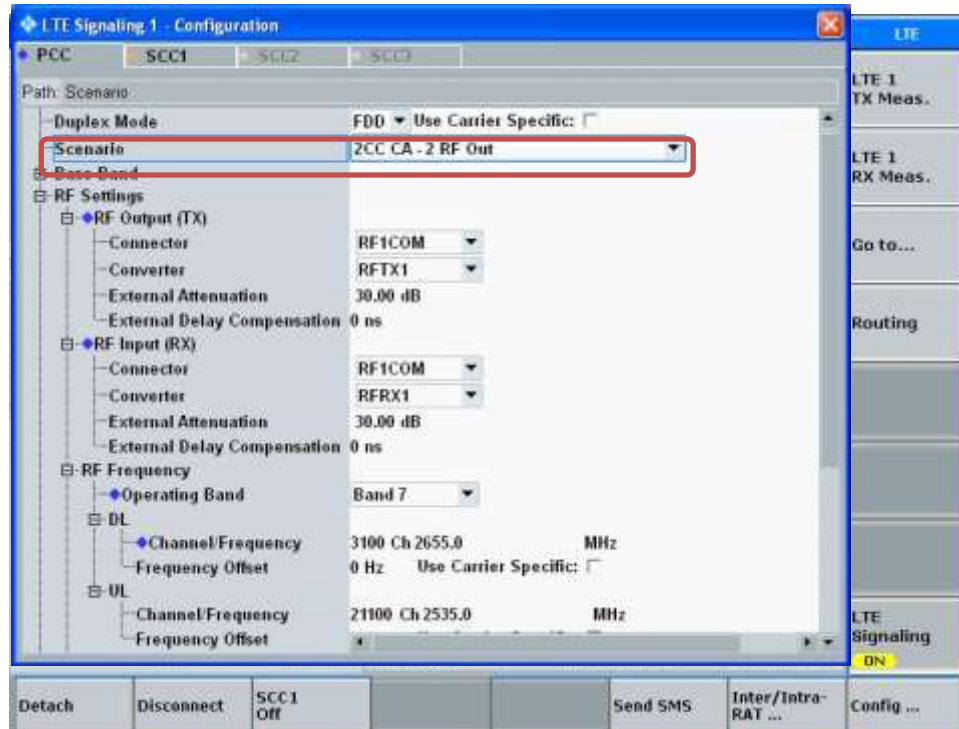
Set to CMW-500 with following parameters:

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

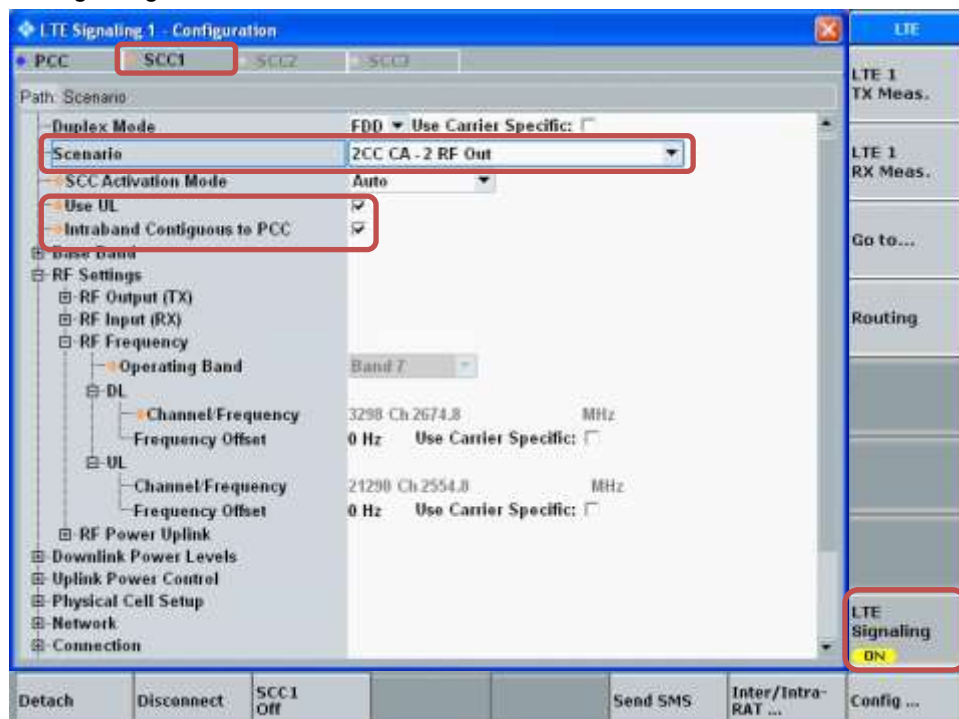


- Go to "Config...."

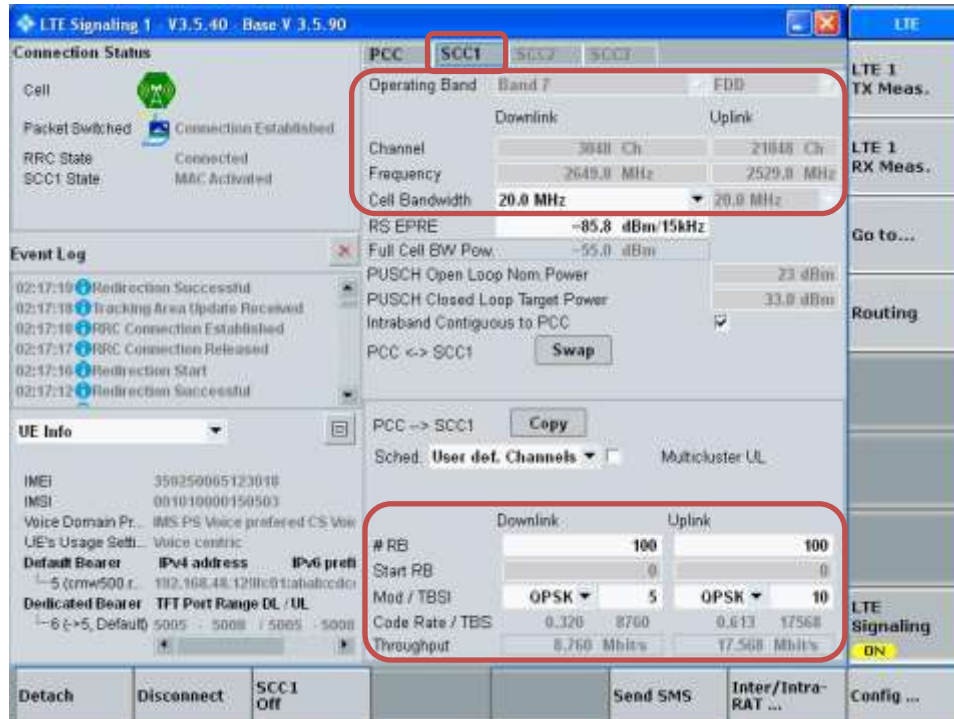
- Go to “Scenario”
- Set to “2CC CA – 2 RF Out”



- Select “SCC1” tab
- Go to “Scenario”
- Set to “2CC CA – 2 RF Out”
- Enable “Use UL”
- Enable “Intraband Contiguous to PCC”
- Select “LTE Signaling” button

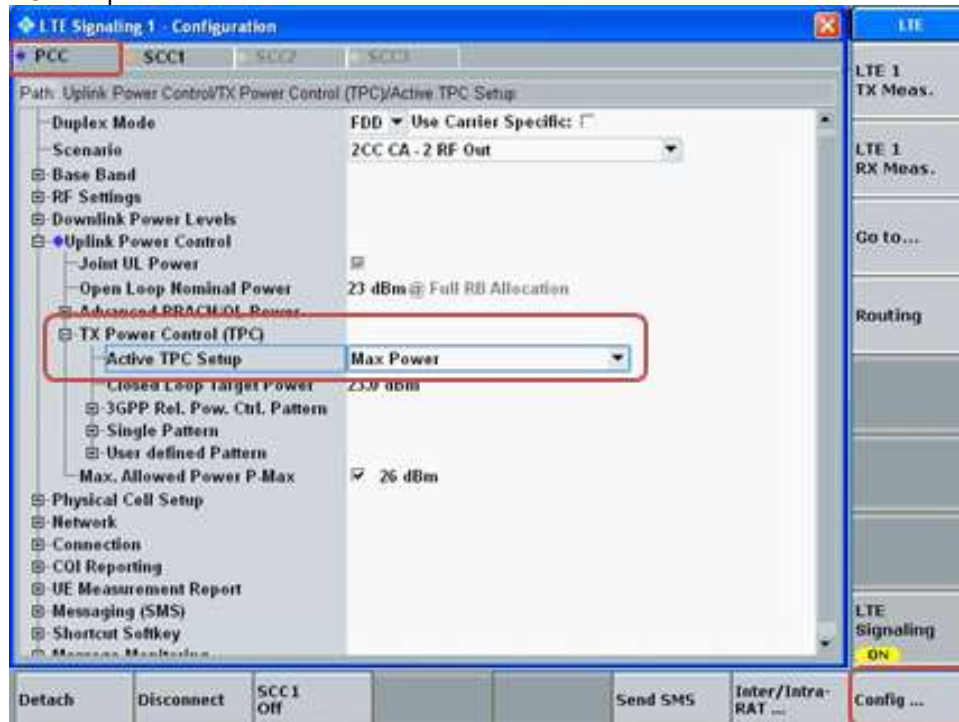


- Select “SCC1” tab
 - Select the testing Cell Bandwidth, Uplink RBs

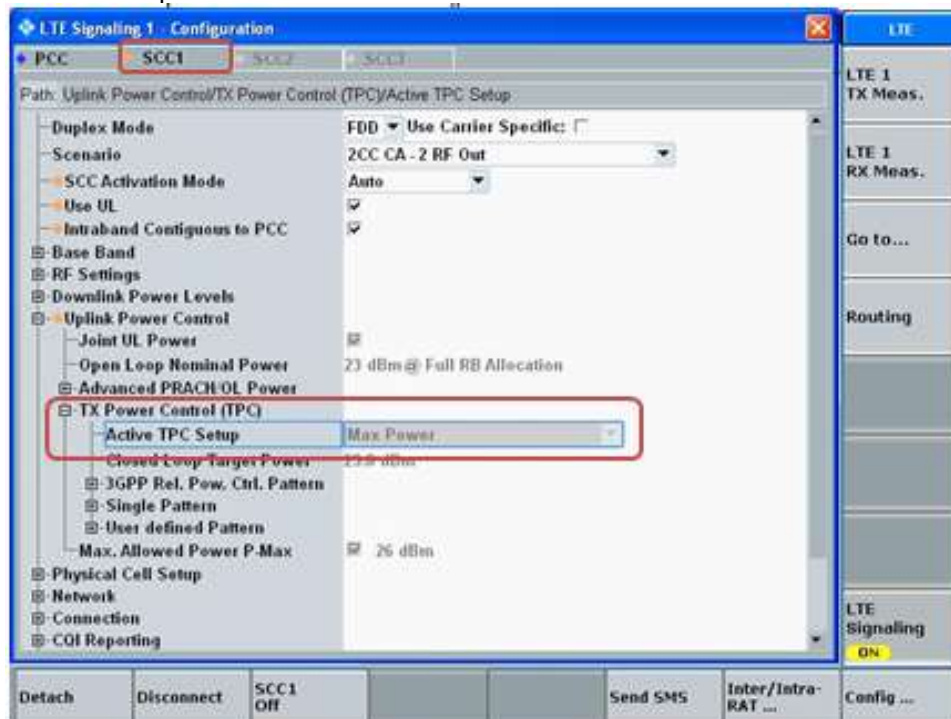


Max Power Setting

- Select “Config ...” button
- Select PCC tab
- Set “Active TPC Setup” to “Max Power”

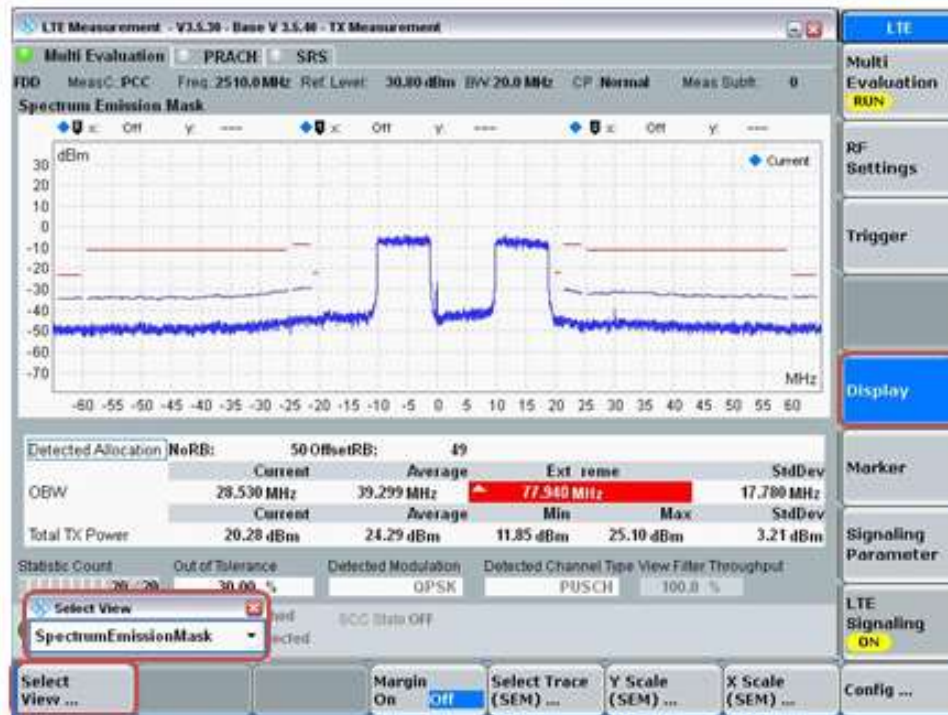


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



View TX Power

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



LTE Intra-Band Contiguous Carrier Aggregation

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed for each antennas (ANT1, ANT2, ANT3 and ANT4) at with QPSK modulation based on the worst-case standalone SAR.

The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions (highest maximum power with MPR of 0 dB).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output for UL CA is $\leq$ standalone LTE mode (without CA)
 - PCC is configured according to the highest standalone SAR configuration tested
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels(PCC based)
- c) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level

Maximum Output Power (Tune-up Limit) for LTE UL Carrier Aggregation

Intra-Band Contiguous	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CA_5B	QPSK	25.00	25.00	23.50	23.50				
CA_7C	QPSK	25.00	20.25	19.25	20.50	24.50	20.00	18.00	18.50
CA_41C (PC3)	QPSK	25.00	23.25	21.50	21.50	24.50	22.25	18.75	19.75
CA_41C (PC2)	QPSK	27.00	23.25	21.50	23.25	26.50	22.25	18.75	19.75

LTE CA_5B Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_5B	ANT 1	Mode A	QPSK	10	836.5	1	49	5	843.9	1	0	25.70	25.60	25.00	24.96	-0.6
CA_5B	ANT 1	Mode B	QPSK	10	836.5	1	49	5	843.9	1	0	25.70	25.60	25.00	24.96	-0.6
CA_5B	ANT 2	Mode A	QPSK	10	836.5	1	49	5	843.9	1	0	24.50	24.40	23.50	23.42	-1.0
CA_5B	ANT 2	Mode B	QPSK	10	836.5	1	49	5	843.9	1	0	24.50	24.40	23.50	23.40	-1.0

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

LTE CA 7C Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_7C	ANT 1	Mode A	QPSK	20	2535	1	99	20	2554.8	1	0	25.70	25.35	25.00	24.83	-0.5
CA_7C	ANT 1	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	20.25	19.88	20.25	20.20	0.3
CA_7C	ANT 1	Mode B	QPSK	20	2510	1	99	20	2529.8	1	0	20.25	19.75	20.25	20.22	0.5
CA_7C	ANT 2	Mode A	QPSK	20	2560	1	0	20	2540.2	1	99	19.25	18.90	19.25	19.12	0.2
CA_7C	ANT 2	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	20.50	20.25	20.50	20.50	0.3
CA_7C	ANT 3	Mode A	QPSK	20	2535	1	99	20	2554.8	1	0	25.00	24.92	24.50	24.40	-0.5
CA_7C	ANT 3	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	20.00	19.66	20.00	20.00	0.3
CA_7C	ANT 4	Mode A	QPSK	20	2510	1	99	20	2529.8	1	0	18.00	17.56	18.00	17.95	0.4
CA_7C	ANT 4	Mode B	QPSK	20	2510	1	99	20	2529.8	1	0	18.50	18.50	18.50	18.50	0.0

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

LTE CA 41C (PC3) Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_41C	ANT 1	Mode A	QPSK	20	2593	1	99	20	2612.8	1	0	25.70	25.30	25.00	24.87	-0.4
CA_41C	ANT 1	Mode B	QPSK	20	2593	1	99	20	2612.8	1	0	23.25	23.25	23.25	23.25	0.0
CA_41C	ANT 1	Mode B	QPSK	20	2506	1	99	20	2525.8	1	0	23.25	23.25	23.25	23.22	0.0
CA_41C	ANT 2	Mode A	QPSK	20	2636.5	1	99	20	2656.3	1	0	21.50	21.45	21.50	21.43	0.0
CA_41C	ANT 2	Mode B	QPSK	20	2549.5	1	99	20	2569.3	1	0	23.25	23.23	21.50	21.40	-1.8
CA_41C	ANT 3	Mode A	QPSK	20	2593	1	99	20	2612.8	1	0	25.50	25.49	24.50	24.34	-1.2
CA_41C	ANT 3	Mode B	QPSK	20	2549.5	1	99	20	2569.3	1	0	22.25	21.84	22.25	22.20	0.4
CA_41C	ANT 4	Mode A	QPSK	20	2680	1	0	20	2660.2	1	99	18.75	18.40	18.75	18.75	0.4
CA_41C	ANT 4	Mode B	QPSK	20	2506	1	99	20	2525.8	1	0	19.75	19.75	19.75	19.70	-0.1

Note(s):

1. PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
2. Additional SAR for UL CA PC2 is not required. Test reduction has been applied base on standalone SAR.
3. SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

LTE Inter-Band Carrier Aggregation

According to October 2018 TCB workshop, Uplink CA SAR Test Guidance as follows:

- Provide the single uplink SAR values you have obtained for the relevant SAR configurations and frequency bands that employ inter-band uplink carrier aggregation.
- If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.
- If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.

Maximum Output Power (Tune-up Limit) and SAR test exemption for LTE UL Carrier Aggregation

Test positions and test channels used for the testing below are based on the standalone worst-case SAR results. UL CA is reduced by 3dB therefore power and SAR was estimated based on standalone results.

UL CA inter-bands	RF Exposure Conditions	Antenna Ports				Standalone worst-case position				UL CA				
						Tune-up Limit (dBm)		Reported 1-g SAR (W/kg)		Tune-up Limit (-3dB) (dBm)		Reported 1-g SAR (W/kg)		
		CC1		CC2		CC1	CC2	CC1	CC2	CC1	CC2	CC1	CC2	CC1+CC2
CA_2A-5A	Head	ANT1	2A	ANT2	5A	25.70	24.50	0.320	0.502	22.70	21.50	0.160	0.252	0.412
		ANT2	2A	ANT1	5A	22.00	25.70	0.994	0.204	19.00	22.70	0.498	0.102	0.600
		ANT3	2A	ANT1	5A	25.00	25.70	0.603	0.204	22.00	22.70	0.302	0.102	0.404
		ANT3	2A	ANT2	5A	25.00	24.50	0.603	0.502	22.00	21.50	0.302	0.252	0.554
		ANT4	2A	ANT1	5A	17.75	25.70	0.996	0.204	14.75	22.70	0.499	0.102	0.601
		ANT4	2A	ANT2	5A	17.75	24.50	0.996	0.502	14.75	21.50	0.499	0.252	0.751
	Body	ANT1	2A	ANT2	5A	21.25	24.50	0.997	0.580	18.25	21.50	0.500	0.291	0.790
		ANT2	2A	ANT1	5A	19.25	25.70	0.834	0.472	16.25	22.70	0.418	0.237	0.655
		ANT3	2A	ANT1	5A	20.50	25.70	0.994	0.472	17.50	22.70	0.498	0.237	0.735
		ANT3	2A	ANT2	5A	20.50	24.50	0.994	0.580	17.50	21.50	0.498	0.291	0.789
		ANT4	2A	ANT1	5A	19.00	25.70	0.833	0.472	16.00	22.70	0.417	0.237	0.654
		ANT4	2A	ANT2	5A	19.00	24.50	0.833	0.580	16.00	21.50	0.417	0.291	0.708
CA_2A-12A	Head	ANT1	2A	ANT2	12A	25.70	24.50	0.320	0.381	22.70	21.50	0.160	0.191	0.351
		ANT2	2A	ANT1	12A	22.00	25.70	0.994	0.218	19.00	22.70	0.498	0.109	0.607
		ANT3	2A	ANT1	12A	25.00	25.70	0.603	0.218	22.00	22.70	0.302	0.109	0.411
		ANT3	2A	ANT2	12A	25.00	24.50	0.603	0.381	22.00	21.50	0.302	0.191	0.493
		ANT4	2A	ANT1	12A	17.75	25.70	0.996	0.218	14.75	22.70	0.499	0.109	0.608
		ANT4	2A	ANT2	12A	17.75	24.50	0.996	0.381	14.75	21.50	0.499	0.191	0.690
	Body	ANT1	2A	ANT2	12A	21.25	24.50	0.997	0.353	18.25	21.50	0.500	0.177	0.677
		ANT2	2A	ANT1	12A	19.25	25.70	0.834	0.655	16.25	22.70	0.418	0.328	0.746
		ANT3	2A	ANT1	12A	20.50	25.70	0.994	0.655	17.50	22.70	0.498	0.328	0.826
		ANT3	2A	ANT2	12A	20.50	24.50	0.994	0.353	17.50	21.50	0.498	0.177	0.675
		ANT4	2A	ANT1	12A	19.00	25.70	0.833	0.655	16.00	22.70	0.417	0.328	0.746
		ANT4	2A	ANT2	12A	19.00	24.50	0.833	0.353	16.00	21.50	0.417	0.177	0.594
CA_2A-13A	Head	ANT1	2A	ANT2	13A	25.70	24.50	0.320	0.287	22.70	21.50	0.160	0.144	0.304
		ANT2	2A	ANT1	13A	22.00	25.70	0.994	0.268	19.00	22.70	0.498	0.134	0.632
		ANT3	2A	ANT1	13A	25.00	25.70	0.603	0.268	22.00	22.70	0.302	0.134	0.437
		ANT3	2A	ANT2	13A	25.00	24.50	0.603	0.287	22.00	21.50	0.302	0.144	0.446
		ANT4	2A	ANT1	13A	17.75	25.70	0.996	0.268	14.75	22.70	0.499	0.134	0.634
		ANT4	2A	ANT2	13A	17.75	24.50	0.996	0.287	14.75	21.50	0.499	0.144	0.643
	Body	ANT1	2A	ANT2	13A	21.25	24.50	0.997	0.304	18.25	21.50	0.500	0.152	0.652
		ANT2	2A	ANT1	13A	19.25	25.70	0.834	0.526	16.25	22.70	0.418	0.264	0.682
		ANT3	2A	ANT1	13A	20.50	25.70	0.994	0.526	17.50	22.70	0.498	0.264	0.762
		ANT3	2A	ANT2	13A	20.50	24.50	0.994	0.304	17.50	21.50	0.498	0.152	0.651
		ANT4	2A	ANT1	13A	19.00	25.70	0.833	0.526	16.00	22.70	0.417	0.264	0.681
		ANT4	2A	ANT2	13A	19.00	24.50	0.833	0.304	16.00	21.50	0.417	0.152	0.570

UL CA inter-bands	RF Exposure Conditions	Antenna Ports				Standalone worst-case position				UL CA				
						Tune-up Limit (dBm)		Reported 1-g SAR (W/kg)		Tune-up Limit (-3dB) (dBm)		Reported 1-g SAR (W/kg)		
		CC1		CC2		CC1	CC2	CC1	CC2	CC1	CC2	CC1	CC2	CC1+CC2
CA_4A-5A	Head	ANT1	4A	ANT2	5A	25.70	24.50	0.239	0.502	22.70	21.50	0.120	0.252	0.371
		ANT2	4A	ANT1	5A	22.00	25.70	0.879	0.204	19.00	22.70	0.441	0.102	0.543
		ANT3	4A	ANT1	5A	25.00	25.70	0.422	0.204	22.00	22.70	0.212	0.102	0.314
		ANT3	4A	ANT2	5A	25.00	24.50	0.422	0.502	22.00	21.50	0.212	0.252	0.463
		ANT4	4A	ANT1	5A	21.25	25.70	0.953	0.204	18.25	22.70	0.478	0.102	0.580
	Body	ANT4	4A	ANT2	5A	21.25	24.50	0.953	0.502	18.25	21.50	0.478	0.252	0.729
		ANT1	4A	ANT2	5A	17.50	24.50	0.966	0.580	14.50	21.50	0.484	0.291	0.775
		ANT2	4A	ANT1	5A	19.50	25.70	0.893	0.472	16.50	22.70	0.448	0.237	0.684
		ANT3	4A	ANT1	5A	21.00	25.70	0.993	0.472	18.00	22.70	0.498	0.237	0.734
		ANT3	4A	ANT2	5A	21.00	24.50	0.993	0.580	18.00	21.50	0.498	0.291	0.788
CA_4A-12A	Head	ANT4	4A	ANT1	5A	21.50	25.70	0.875	0.472	18.50	22.70	0.439	0.237	0.675
		ANT4	4A	ANT2	5A	21.50	24.50	0.875	0.580	18.50	21.50	0.439	0.291	0.729
	Body	ANT1	4A	ANT2	12A	25.70	24.50	0.239	0.381	22.70	21.50	0.120	0.191	0.311
		ANT2	4A	ANT1	12A	22.00	25.70	0.879	0.218	19.00	22.70	0.441	0.109	0.550
		ANT3	4A	ANT1	12A	25.00	25.70	0.422	0.218	22.00	22.70	0.212	0.109	0.321
		ANT3	4A	ANT2	12A	25.00	24.50	0.422	0.381	22.00	21.50	0.212	0.191	0.402
		ANT4	4A	ANT1	12A	21.25	25.70	0.953	0.218	18.25	22.70	0.478	0.109	0.587
	Body	ANT4	4A	ANT2	12A	21.25	24.50	0.953	0.381	18.25	21.50	0.478	0.191	0.669
		ANT1	4A	ANT2	12A	17.50	24.50	0.966	0.353	14.50	21.50	0.484	0.177	0.661
		ANT2	4A	ANT1	12A	19.50	25.70	0.893	0.655	16.50	22.70	0.448	0.328	0.776
CA_4A-13A	Head	ANT3	4A	ANT1	12A	21.00	25.70	0.993	0.655	18.00	22.70	0.498	0.328	0.826
		ANT3	4A	ANT2	12A	21.00	24.50	0.993	0.353	18.00	21.50	0.498	0.177	0.675
		ANT4	4A	ANT1	12A	21.50	25.70	0.875	0.655	18.50	22.70	0.439	0.328	0.767
		ANT4	4A	ANT2	12A	21.50	24.50	0.875	0.353	18.50	21.50	0.439	0.177	0.615
	Body	ANT1	4A	ANT2	13A	25.70	24.50	0.239	0.287	22.70	21.50	0.120	0.144	0.264
		ANT2	4A	ANT1	13A	22.00	25.70	0.879	0.268	19.00	22.70	0.441	0.134	0.575
		ANT3	4A	ANT1	13A	25.00	25.70	0.422	0.268	22.00	22.70	0.212	0.134	0.346
		ANT3	4A	ANT2	13A	25.00	24.50	0.422	0.287	22.00	21.50	0.212	0.144	0.355
		ANT4	4A	ANT1	13A	21.25	25.70	0.953	0.268	18.25	22.70	0.478	0.134	0.612
CA_5A-7A	Head	ANT4	4A	ANT2	13A	21.25	24.50	0.953	0.287	18.25	21.50	0.478	0.144	0.621
		ANT1	4A	ANT2	13A	17.50	24.50	0.966	0.304	14.50	21.50	0.484	0.152	0.637
		ANT2	4A	ANT1	13A	19.50	25.70	0.893	0.526	16.50	22.70	0.448	0.264	0.711
		ANT3	4A	ANT1	13A	21.00	25.70	0.993	0.526	18.00	22.70	0.498	0.264	0.761
		ANT3	4A	ANT2	13A	21.00	24.50	0.993	0.304	18.00	21.50	0.498	0.152	0.650
	Body	ANT4	4A	ANT1	13A	21.50	25.70	0.875	0.526	18.50	22.70	0.439	0.264	0.702
		ANT4	4A	ANT2	13A	21.50	24.50	0.875	0.304	18.50	21.50	0.439	0.152	0.591
		ANT1	5A	ANT2	7A	25.70	19.25	0.204	0.948	22.70	16.25	0.102	0.475	0.577
		ANT1	5A	ANT3	7A	25.70	25.00	0.204	0.643	22.70	22.00	0.102	0.322	0.425
		ANT1	5A	ANT4	7A	25.70	18.00	0.204	0.998	22.70	15.00	0.102	0.500	0.602
CA_5A-7A	Head	ANT2	5A	ANT1	7A	24.50	25.70	0.502	0.385	21.50	22.70	0.252	0.193	0.445
		ANT2	5A	ANT3	7A	24.50	25.00	0.502	0.643	21.50	22.00	0.252	0.322	0.574
		ANT2	5A	ANT4	7A	24.50	18.00	0.502	0.998	21.50	15.00	0.252	0.500	0.752
		ANT1	5A	ANT2	7A	25.70	20.50	0.472	0.824	22.70	17.50	0.237	0.413	0.650
		ANT1	5A	ANT3	7A	25.70	20.00	0.472	0.954	22.70	17.00	0.237	0.478	0.715
	Body	ANT1	5A	ANT4	7A	25.70	18.50	0.472	0.891	22.70	15.50	0.237	0.447	0.683
		ANT2	5A	ANT1	7A	24.50	20.25	0.580	0.944	21.50	17.25	0.291	0.473	0.764
		ANT2	5A	ANT3	7A	24.50	20.00	0.580	0.954	21.50	17.00	0.291	0.478	0.769
		ANT2	5A	ANT4	7A	24.50	18.50	0.580	0.891	21.50	15.50	0.291	0.447	0.737

UL CA inter-bands	RF Exposure Conditions	Antenna Ports				Standalone worst-case position				UL CA				
						Tune-up Limit (dBm)		Reported 1-g SAR (W/kg)		Tune-up Limit (-3dB) (dBm)		Reported 1-g SAR (W/kg)		
		CC1		CC2		CC1	CC2	CC1	CC2	CC1	CC2	CC1	CC2	CC1+CC2
CA_5A-66A	Head	ANT1	5A	ANT2	66A	25.70	22.00	0.204	0.879	22.70	19.00	0.102	0.441	0.543
		ANT1	5A	ANT3	66A	25.70	25.00	0.204	0.422	22.70	22.00	0.102	0.212	0.314
		ANT1	5A	ANT4	66A	25.70	21.25	0.204	0.953	22.70	18.25	0.102	0.478	0.580
		ANT2	5A	ANT1	66A	24.50	25.70	0.502	0.239	21.50	22.70	0.252	0.120	0.371
		ANT2	5A	ANT3	66A	24.50	25.00	0.502	0.422	21.50	22.00	0.252	0.212	0.463
	Body	ANT2	5A	ANT4	66A	24.50	21.25	0.502	0.953	21.50	18.25	0.252	0.478	0.729
		ANT1	5A	ANT2	66A	25.70	19.50	0.472	0.893	22.70	16.50	0.237	0.448	0.684
		ANT1	5A	ANT3	66A	25.70	21.00	0.472	0.993	22.70	18.00	0.237	0.498	0.734
		ANT1	5A	ANT4	66A	25.70	21.50	0.472	0.875	22.70	18.50	0.237	0.439	0.675
		ANT2	5A	ANT1	66A	24.50	17.50	0.580	0.966	21.50	14.50	0.291	0.484	0.775
CA_12A-30A	Head	ANT2	5A	ANT3	66A	24.50	21.00	0.580	0.993	21.50	18.00	0.291	0.498	0.788
		ANT2	5A	ANT4	66A	24.50	21.50	0.580	0.875	21.50	18.50	0.291	0.439	0.729
	Body	ANT1	12A	ANT2	30A	25.70	21.25	0.218	0.980	22.70	18.25	0.109	0.491	0.600
		ANT1	12A	ANT3	30A	25.70	24.50	0.218	0.270	22.70	21.50	0.109	0.135	0.245
		ANT1	12A	ANT4	30A	25.70	17.75	0.218	0.922	22.70	14.75	0.109	0.462	0.571
	Body	ANT2	12A	ANT1	30A	24.50	25.70	0.381	0.256	21.50	22.70	0.191	0.128	0.319
		ANT2	12A	ANT3	30A	24.50	24.50	0.381	0.270	21.50	21.50	0.191	0.135	0.326
		ANT2	12A	ANT4	30A	24.50	17.75	0.381	0.922	21.50	14.75	0.191	0.462	0.653
		ANT1	12A	ANT2	30A	25.70	20.00	0.655	0.848	22.70	17.00	0.328	0.425	0.753
		ANT1	12A	ANT3	30A	25.70	22.50	0.655	0.926	22.70	19.50	0.328	0.464	0.792
CA_12A-66A	Head	ANT1	12A	ANT4	30A	25.70	19.00	0.655	0.849	22.70	16.00	0.328	0.426	0.754
		ANT2	12A	ANT1	30A	24.50	20.25	0.353	0.974	21.50	17.25	0.177	0.488	0.665
		ANT2	12A	ANT3	30A	24.50	22.50	0.353	0.926	21.50	19.50	0.177	0.464	0.641
		ANT2	12A	ANT4	30A	24.50	19.00	0.353	0.849	21.50	16.00	0.177	0.426	0.602
	Body	ANT1	12A	ANT2	66A	25.70	22.00	0.218	0.879	22.70	19.00	0.109	0.441	0.550
		ANT1	12A	ANT3	66A	25.70	25.00	0.218	0.422	22.70	22.00	0.109	0.212	0.321
		ANT1	12A	ANT4	66A	25.70	21.25	0.218	0.953	22.70	18.25	0.109	0.478	0.587
		ANT2	12A	ANT1	66A	24.50	25.70	0.381	0.239	21.50	22.70	0.191	0.120	0.311
		ANT2	12A	ANT3	66A	24.50	25.00	0.381	0.422	21.50	22.00	0.191	0.212	0.402
CA_13A-66A	Head	ANT2	12A	ANT4	66A	24.50	21.25	0.381	0.953	21.50	18.25	0.191	0.478	0.669
		ANT1	12A	ANT2	66A	25.70	19.50	0.655	0.893	22.70	16.50	0.328	0.448	0.776
		ANT1	12A	ANT3	66A	25.70	21.00	0.655	0.993	22.70	18.00	0.328	0.498	0.826
		ANT1	12A	ANT4	66A	25.70	21.50	0.655	0.875	22.70	18.50	0.328	0.439	0.767
		ANT2	12A	ANT1	66A	24.50	17.50	0.353	0.966	21.50	14.50	0.177	0.484	0.661
	Body	ANT2	12A	ANT3	66A	24.50	21.00	0.353	0.993	21.50	18.00	0.177	0.498	0.675
		ANT2	12A	ANT4	66A	24.50	21.50	0.353	0.875	21.50	18.50	0.177	0.439	0.615
		ANT1	13A	ANT2	66A	25.70	22.00	0.268	0.879	22.70	19.00	0.134	0.441	0.575
		ANT1	13A	ANT3	66A	25.70	25.00	0.268	0.422	22.70	22.00	0.134	0.212	0.346
		ANT1	13A	ANT4	66A	25.70	21.25	0.268	0.953	22.70	18.25	0.134	0.478	0.612
CA_13A-66A	Head	ANT2	13A	ANT1	66A	24.50	25.70	0.287	0.239	21.50	22.70	0.144	0.120	0.264
		ANT2	13A	ANT3	66A	24.50	25.00	0.287	0.422	21.50	22.00	0.144	0.212	0.355
		ANT2	13A	ANT4	66A	24.50	21.25	0.287	0.953	21.50	18.25	0.144	0.478	0.621
		ANT1	13A	ANT2	66A	25.70	19.50	0.526	0.893	22.70	16.50	0.264	0.448	0.711
		ANT1	13A	ANT3	66A	25.70	21.00	0.526	0.993	22.70	18.00	0.264	0.498	0.761
	Body	ANT1	13A	ANT4	66A	25.70	21.50	0.526	0.875	22.70	18.50	0.264	0.439	0.702
		ANT2	13A	ANT1	66A	24.50	17.50	0.304	0.966	21.50	14.50	0.152	0.484	0.637
		ANT2	13A	ANT3	66A	24.50	21.00	0.304	0.993	21.50	18.00	0.152	0.498	0.650
		ANT2	13A	ANT4	66A	24.50	21.50	0.304	0.875	21.50	18.50	0.152	0.439	0.591

Conclusion:

The single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg. Therefore, no additional measurements are required.

9.6. LTE Down-Link Carrier Aggregation

This device supports LTE downlink carrier aggregation (CA). The tables appendix G is show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

9.7. Wi-Fi 2.4GHz (DTS Band)

Wi-Fi 2.4 GHz ($P_{\text{cell_OFF}}$ and $P_{\text{cell_ON}}$)

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 b/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected. Therefore the SAR measurements performed for the 802.11b modes, as the lowest order modulation, cover 802.11g/n/ac/ax modes.

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is $<1.6\text{W/kg}$ and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

For 2.4 GHz band, there are two use cases:

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

Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11b DSSS (SISO)	1	2412	20.50	20.50	18.25	19.25	20.50	17.50	14.00	16.00
	2	2417	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	3	2422	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	10	2457	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	11	2462	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	12	2467	20.50	20.50	18.25	19.25	20.50	17.50	14.00	16.00
	13	2472	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11g/n/ac OFDM (SISO)	1	2412	17.50	17.50	17.50	17.50	17.50	17.50	14.00	16.00
	2	2417	19.50	19.50	18.25	19.25	19.50	17.50	14.00	16.00
	3	2422	21.00	21.00	18.25	19.25	21.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	10	2457	19.50	19.50	18.25	19.25	19.50	17.50	14.00	16.00
	11	2462	17.50	17.50	17.50	17.50	17.50	17.50	14.00	16.00
	12	2467	15.50	15.50	15.50	15.50	15.50	15.50	14.00	15.50
	13	2472	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 SU OFDMA (SISO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	2	2417	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	3	2422	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	10	2457	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50

Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 RU106 OFDMA (SISO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	2	2417	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	3	2422	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	10	2457	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 RU52/RU26 OFDMA (SISO)	1	2412	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	2	2417	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	3	2422	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	10	2457	18.00	18.00	18.00	18.00	18.00	17.50	14.00	16.00
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	14.00	16.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11n/ac OFDM (MIMO)	1	2412	16.50	16.50	16.50	16.50	16.50	16.50	14.00	16.00
	2	2417	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	3	2422	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	19.50	19.50	18.25	19.25	19.50	17.50	14.00	16.00
	10	2457	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	11	2462	16.50	16.50	16.50	16.50	16.50	16.50	14.00	16.00
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
	13	2472	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00

Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 SU OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	3	2422	19.00	19.00	18.25	19.00	19.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	12	2467	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	13	2472	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 RU106 OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	3	2422	19.00	19.00	18.25	19.00	19.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	12	2467	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	13	2472	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 RU52 OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	3	2422	19.00	19.00	18.25	19.00	19.00	17.50	14.00	16.00
	4	2427	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	5	2432	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	6	2437	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	7	2442	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	8	2447	21.50	21.50	18.25	19.25	21.50	17.50	14.00	16.00
	9	2452	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	12	2467	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	13	2472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mode	Channel	Frequency	Pcell OFF				Pcell ON			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11ax HE20 RU26 OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	3	2422	19.00	19.00	18.25	19.00	19.00	17.50	14.00	16.00
	4	2427	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	5	2432	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	6	2437	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	7	2442	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	8	2447	20.00	20.00	18.25	19.25	20.00	17.50	14.00	16.00
	9	2452	18.50	18.50	18.25	18.50	18.50	17.50	14.00	16.00
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	14.00	16.00
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00
	12	2467	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
	13	2472	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Wi-Fi 2.4GHz Measured Results

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

SAR testing is not required for OFDM mode(s) when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Power Mode	Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell OFF	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	20.50	20.50	Yes
				2	2417	21.50	21.50		21.50	21.50	
				6	2437	21.50	21.50		21.50	21.50	
				11	2462	21.50	21.50		21.50	21.50	
				12	2467	20.50	20.50		20.50	20.50	
				13	2472	16.00	16.00		16.00	16.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	18.25	18.25	Yes	19.25	19.25	Yes
				6	2437	18.25	18.25		19.25	19.25	
				11	2462	18.25	18.25		19.25	19.25	
				12	2467	18.25	18.25		19.25	19.25	
13				2472	16.00	16.00	16.00		16.00		
Power Mode	Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell ON	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	17.50	17.50	Yes
				2	2417	21.50	21.50		17.50	17.50	
				6	2437	21.50	21.50		17.50	17.50	
				11	2462	21.50	21.50		17.50	17.50	
				12	2467	20.50	20.50		17.50	17.50	
				13	2472	16.00	16.00		16.00	16.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	14.00	14.00	Yes	16.00	16.00	Yes
				6	2437	14.00	14.00		16.00	16.00	
				11	2462	14.00	14.00		16.00	16.00	
				12	2467	14.00	14.00		16.00	16.00	
13				2472	14.00	14.00	16.00		16.00		

Note(s):

SAR is not required for channel 12 and 13 because the tune-up limit and the measured output power for these two channels are not greater than those for the default test channels. Refer to KDB 248227 D01 section 3.1

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

Wi-Fi 5 GHz ($P_{\text{cell_OFF}}$ and $P_{\text{cell_ON}}$)

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected. Therefore the SAR measurements performed for the 802.11n/ac modes, as the lowest order modulation, cover 802.11ax modes.

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.

According to KDB publication 248227 D01, simultaneous SAR provisions in KDB Publication 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6 W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

For 5GHz band, there are two use cases:

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

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11a/n/ac 20 MHz	36	5180	19.00	19.00	19.00	17.00	19.00	15.25	18.50	12.75
		40	5200	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
		44	5220	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
		48	5240	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
	802.11n/ac 40 MHz	38	5190	17.50	17.50	17.50	17.00	17.50	15.25	17.50	12.75
		46	5230	21.50	20.50	21.50	17.00	21.50	15.25	18.50	12.75
	802.11ac 80 MHz	42	5210	17.00	17.00	17.00	17.00	17.00	15.25	17.00	12.75
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		56	5280	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		60	5300	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		64	5320	19.00	19.00	19.00	17.75	19.00	14.75	17.50	13.50
	802.11n/ac 40 MHz	54	5270	21.50	20.00	21.50	17.75	21.50	14.75	17.50	13.50
		62	5310	17.50	17.50	17.50	17.50	17.50	14.75	17.50	13.50
	802.11ac 80 MHz	58	5290	17.50	17.50	17.50	17.50	17.50	14.75	17.50	13.50
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-2C 5.5 GHz (SISO)	802.11a/n/ac 20 MHz	100	5500	19.00	17.75	19.00	19.00	19.00	12.50	15.75	15.75
		104	5520	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		108	5540	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		112	5560	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		116	5580	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		120	5600	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		124	5620	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		128	5640	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		132	5660	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		136	5680	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
	802.11n/ac 40 MHz	140	5700	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		144	5720	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		102	5510	17.50	17.50	17.50	17.50	17.50	12.50	15.75	15.75
		110	5550	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		118	5590	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
	802.11ac 80 MHz	126	5630	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		134	5670	20.50	17.75	20.50	20.00	20.50	12.50	15.75	15.75
142		5710	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75	
	802.11ac 80 MHz	106	5530	16.50	16.50	16.50	16.50	16.50	12.50	15.75	15.75
		122	5610	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		138	5690	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11n/ac 40 MHz	165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ac 80 MHz	159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11ax HE20/SU	36	5180	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		40	5200	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
		44	5220	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
		48	5240	21.00	20.50	21.00	17.00	21.00	15.25	18.50	12.75
	802.11ax HE40/SU	38	5190	16.00	16.00	16.00	16.00	16.00	15.25	16.00	12.75
		46	5230	21.50	20.50	21.50	17.00	21.50	15.25	18.50	12.75
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20/SU	52	5260	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		56	5280	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		60	5300	21.00	20.00	21.00	17.75	21.00	14.75	17.50	13.50
		64	5320	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
	802.11ax HE40/SU	54	5270	21.50	20.00	21.50	17.75	21.50	14.75	17.50	13.50
		62	5310	16.00	16.00	16.00	16.00	16.00	14.75	16.00	13.50
U-NII-2C 5.5 GHz (SISO)	802.11ax HE20/SU	58	5290	16.00	16.00	16.00	16.00	16.00	14.75	16.00	13.50
	802.11ax HE20/SU	100	5500	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		104	5520	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		108	5540	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		112	5560	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		116	5580	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		120	5600	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		124	5620	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		128	5640	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		132	5660	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		136	5680	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
		140	5700	16.50	16.50	16.50	16.50	16.50	12.50	15.75	15.75
		144	5720	21.00	17.75	21.00	20.00	21.00	12.50	15.75	15.75
U-NII-3 5.8 GHz (SISO)	802.11ax HE40/SU	102	5510	16.00	16.00	16.00	16.00	16.00	12.50	15.75	15.75
		110	5550	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		118	5590	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		126	5630	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		134	5670	19.00	17.75	19.00	19.00	19.00	12.50	15.75	15.75
		142	5710	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
	802.11ax HE80/SU	106	5530	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		122	5610	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
		138	5690	21.50	17.75	21.00	20.00	21.50	12.50	15.75	15.75
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/SU	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE40/SU	151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/SU	155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25

Note(s):

The powers in the table above are for the fully loaded channels. When operating on partially loaded channels the power levels for HE80 RU484 are the same or lower than the equivalent HE40 SU power for the mode (A or B, Pcell_ON or Pcell_OFF); the power levels for HE80 RU242 and for HE40 RU242 are the same or lower than the equivalent HE20 SU power; the power levels for all other RU allocations for all bandwidths (RU106, RU52 and RU26) are all the same or lower than HE20 SU power.

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11ax HE20/RU106	36	5180	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		40	5200	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		44	5220	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		48	5240	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
	802.11ax HE40/RU106	38	5190	16.00	16.00	16.00	16.00	16.00	15.25	16.00	12.75
		46	5230	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20/RU106	52	5260	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		56	5280	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		60	5300	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		64	5320	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
	802.11ax HE40/RU106	54	5270	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		62	5310	16.00	16.00	16.00	16.00	16.00	14.75	16.00	13.50
U-NII-2C 5.5 GHz (SISO)	802.11ax HE20/RU106	58	5290	16.00	16.00	16.00	16.00	16.00	14.75	16.00	13.50
	802.11ax HE40/RU106	100	5500	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		104	5520	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		108	5540	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		112	5560	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		116	5580	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU106	120	5600	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		124	5620	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		128	5640	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		132	5660	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		136	5680	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		140	5700	16.50	16.50	16.50	16.50	16.50	12.50	15.75	15.75
		144	5720	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		102	5510	16.00	16.00	16.00	16.00	16.00	12.50	15.75	15.75
	802.11ax HE40/RU106	110	5550	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		118	5590	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		126	5630	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		134	5670	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
	802.11ax HE80/RU106	142	5710	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		106	5530	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU106	122	5610	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		138	5690	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
	802.11ax HE40/RU106	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU106	151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU106	155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU106										
	802.11ax HE80/RU106										

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11ax HE20/RU52	36	5180	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
	802.11ax HE40/RU52	38	5190	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
		46	5230	15.00	15.00	15.00	15.00	15.00	15.00	15.00	12.75
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20/RU52	52	5260	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
		56	5280	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
		60	5300	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
		64	5320	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
	802.11ax HE40/RU52	54	5270	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
		62	5310	15.00	15.00	15.00	15.00	15.00	14.75	15.00	13.50
U-NII-2C 5.5 GHz (SISO)	802.11ax HE20/RU52	100	5500	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		104	5520	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		108	5540	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		112	5560	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		116	5580	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		120	5600	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		124	5620	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		128	5640	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		132	5660	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		136	5680	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
	802.11ax HE40/RU52	140	5700	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		144	5720	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		102	5510	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		110	5550	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		118	5590	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
	802.11ax HE80/RU52	126	5630	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		134	5670	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		142	5710	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU52	106	5530	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		122	5610	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		138	5690	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
	802.11ax HE40/RU52	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU52	151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU52	155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11ax HE20/RU26	36	5180	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		40	5200	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		44	5220	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		48	5240	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU26	38	5190	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		46	5230	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20/RU26	52	5260	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		56	5280	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		60	5300	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		64	5320	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU26	54	5270	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		62	5310	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-2C 5.5 GHz (SISO)	802.11ax HE20/RU26	80	5340	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		84	5360	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		88	5380	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		92	5400	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		96	5420	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		100	5500	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		104	5520	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		108	5540	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		112	5560	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		116	5580	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU26	120	5600	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		124	5620	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		128	5640	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		132	5660	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		136	5680	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		140	5700	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE80/RU26	144	5720	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		102	5510	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		110	5550	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		118	5590	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU26	126	5630	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		134	5670	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		142	5710	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		106	5530	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		122	5610	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		138	5690	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU26	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU26	165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
U-NII-3 5.8 GHz (SISO)	802.11ax HE40/RU26	159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (MIMO)	802.11a/n/ac 20 MHz	36	5180	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		40	5200	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		44	5220	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		48	5240	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
	802.11n/ac 40 MHz	38	5190	17.00	17.00	17.00	17.00	17.00	15.25	17.00	12.75
		46	5230	20.00	20.00	20.00	17.00	20.00	15.25	18.50	12.75
		802.11ac 80 MHz	42	5210	16.00	16.00	16.00	16.00	16.00	15.25	16.00
U-NII-2A 5.3 GHz (MIMO)	802.11a/n/ac 20 MHz	52	5260	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		56	5280	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		60	5300	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		64	5320	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
	802.11n/ac 40 MHz	54	5270	20.00	20.00	20.00	17.75	20.00	14.75	17.50	13.50
		62	5310	17.00	17.00	17.00	17.00	17.00	14.75	17.00	13.50
	802.11ac 80 MHz	58	5290	16.50	16.50	16.50	16.50	16.50	14.75	16.50	13.50
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-2C 5.5 GHz (MIMO)	802.11a/n/ac 20 MHz	100	5500	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		104	5520	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		108	5540	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		112	5560	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		116	5580	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		120	5600	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		124	5620	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		128	5640	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		132	5660	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		136	5680	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
	802.11n/ac 40 MHz	140	5700	17.50	17.50	17.50	17.50	17.50	12.50	15.75	15.75
		144	5720	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		102	5510	17.00	17.00	17.00	17.00	17.00	12.50	15.75	15.75
		110	5550	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		118	5590	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
	802.11ac 80 MHz	126	5630	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		134	5670	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		142	5710	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
	802.11ac 80 MHz	106	5530	15.00	15.00	15.00	15.00	15.00	12.50	15.00	15.00
		122	5610	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		138	5690	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (MIMO)	802.11a/n/ac 20 MHz	149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11n/ac 40 MHz	165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ac 80 MHz	159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		155	5775	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (MIMO)	802.11ax HE20/SU	36	5180	17.00	17.00	17.00	17.00	17.00	15.25	17.00	12.75
		40	5200	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		44	5220	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
		48	5240	18.00	18.00	18.00	17.00	18.00	15.25	18.00	12.75
	802.11ax HE40/SU	38	5190	15.50	15.50	15.50	15.50	15.50	15.25	15.50	12.75
		46	5230	20.00	20.00	20.00	17.00	20.00	15.25	18.50	12.75
U-NII-2A 5.3 GHz (MIMO)	802.11ax HE20/SU	52	5260	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		56	5280	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		60	5300	18.00	18.00	18.00	17.75	18.00	14.75	17.50	13.50
		64	5320	17.00	17.00	17.00	17.00	17.00	14.75	17.00	13.50
	802.11ax HE40/SU	54	5270	20.00	20.00	20.00	17.75	20.00	14.75	17.50	13.50
		62	5310	15.50	15.50	15.50	15.50	15.50	14.75	15.50	13.50
U-NII-2C 5.5 GHz (MIMO)	802.11ax HE20/SU	100	5500	17.00	17.00	17.00	17.00	17.00	12.50	15.75	15.75
		104	5520	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		108	5540	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		112	5560	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
	802.11ax HE40/SU	116	5580	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
		120	5600	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75
124		5620	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75	
128		5640	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75	
132		5660	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75	
136		5680	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75	
140		5700	16.00	16.00	16.00	16.00	16.00	12.50	15.75	15.75	
144		5720	18.00	17.75	18.00	18.00	18.00	12.50	15.75	15.75	
802.11ax HE80/SU	102	5510	15.50	15.50	15.50	15.50	15.50	12.50	15.50	15.50	
	110	5550	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75	
	118	5590	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75	
	126	5630	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75	
U-NII-3 5.8 GHz (MIMO)	802.11ax HE20/SU	134	5670	18.50	17.75	18.50	18.50	18.50	12.50	15.75	15.75
		142	5710	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		106	5530	13.50	13.50	13.50	13.50	13.50	12.50	13.50	13.50
122		5610	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75	
U-NII-3 5.8 GHz (MIMO)	802.11ax HE40/SU	138	5690	20.00	17.75	20.00	20.00	20.00	12.50	15.75	15.75
		149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
157		5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25	
U-NII-3 5.8 GHz (MIMO)	802.11ax HE80/SU	161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
159		5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25	
U-NII-3 5.8 GHz (MIMO)	802.11ax HE80/SU	155	5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25
		155	5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25
		155	5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25
155		5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25	

Note(s):

The powers in the table above are for the fully loaded channels. When operating on partially loaded channels the power levels for HE80 RU484 are the same or lower than the equivalent HE40 SU power for the mode (A or B, Pcell_ON or Pcell_OFF); the power levels for HE80 RU242 and for HE40 RU242 are the same or lower than the equivalent HE20 SU power; the power levels for all other RU allocations for all bandwidths (RU106, RU52 and RU26) are all the same or lower than HE20 SU power.

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Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (MIMO)	802.11ax HE20/RU52	36	5180	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		40	5200	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		44	5220	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		48	5240	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU52	38	5190	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		46	5230	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-2A 5.3 GHz (MIMO)	802.11ax HE20/RU52	52	5260	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		56	5280	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		60	5300	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		64	5320	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU52	54	5270	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		62	5310	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-2C 5.5 GHz (MIMO)	802.11ax HE20/RU52	58	5290	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		100	5500	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		104	5520	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		108	5540	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		112	5560	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		116	5580	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		120	5600	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		124	5620	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		128	5640	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		132	5660	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU52	136	5680	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		140	5700	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		144	5720	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		102	5510	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		110	5550	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE80/RU52	118	5590	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		126	5630	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		134	5670	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		142	5710	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		106	5530	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
U-NII-3 5.8 GHz (MIMO)	802.11ax HE20/RU52	122	5610	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		138	5690	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
		149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE40/RU52	161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU52	159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		155	5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (MIMO)	802.11ax HE20/RU26	36	5180	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		40	5200	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		44	5220	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		48	5240	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	802.11ax HE40/RU26	38	5190	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		46	5230	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
U-NII-2A 5.3 GHz (MIMO)	802.11ax HE20/RU26	52	5260	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		56	5280	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		60	5300	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		64	5320	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	802.11ax HE40/RU26	54	5270	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		62	5310	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
U-NII-2C 5.5 GHz (MIMO)	802.11ax HE20/RU26	58	5290	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		100	5500	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		104	5520	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		108	5540	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		112	5560	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		116	5580	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		120	5600	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		124	5620	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		128	5640	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		132	5660	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	802.11ax HE40/RU26	136	5680	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		140	5700	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		144	5720	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		102	5510	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		110	5550	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	802.11ax HE80/RU26	118	5590	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		126	5630	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		134	5670	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		142	5710	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		106	5530	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
U-NII-3 5.8 GHz (MIMO)	802.11ax HE20/RU26	122	5610	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		138	5690	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
		149	5745	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		153	5765	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		157	5785	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE40/RU26	161	5805	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		165	5825	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		151	5755	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
	802.11ax HE80/RU26	159	5795	21.50	17.75	21.50	20.50	21.50	12.50	16.50	16.25
		155	5775	20.00	17.75	20.00	20.00	20.00	12.50	16.50	16.25

Wi-Fi 5 GHz Measured Results

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Power Mode	Antenna	Mode	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell OFF	ANT5	U-NII-2A	802.11n HT40	54	5270	21.50	21.50	Yes			
				62	5310	17.50	17.50	Yes			
		U-NII-1	802.11n HT40	38	5190				17.50	17.50	Yes
				46	5230				20.50	20.50	Yes
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	16.50	16.50	Yes
				122	5610	21.50	21.50		17.75	17.75	
				138	5690	21.50	21.50		17.75	17.75	
		U-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	17.75	17.75	Yes
	ANT6	U-NII-2A	802.11n HT40	54	5270	21.50	21.50	Yes	17.75	17.75	Yes
				62	5310	17.50	17.50	Yes	17.50	17.50	Yes
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	16.50	16.50	Yes
				122	5610	21.00	21.00		20.00	20.00	
				138	5690	21.00	21.00		20.00	20.00	
		U-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	20.50	20.50	Yes
Power Mode	Antenna	Mode	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell ON	ANT5	U-NII-2A	802.11n/ac HT40	54	5270	21.50	21.50	Yes			
				62	5310	17.50	17.50				
		U-NII-1	802.11ac VHT80	42	5210				15.25	15.25	Yes
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	12.50	12.50	Yes
				122	5610	21.50	21.50		12.50	12.50	
				138	5690	21.50	21.50		12.50	12.50	
		U-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	12.50	12.50	Yes
	ANT6	U-NII-2A	802.11ac VHT80	42	5210				13.50	13.50	Yes
		U-NII-1	802.11n/ac HT40	38	5190	17.50	17.50	Yes			
				46	5230	18.50	18.50				
		U-NII-2C	802.11ac VHT80	106	5530	15.75	15.75	Yes	15.75	15.75	Yes
				122	5610	15.75	15.75		15.75	15.75	
				138	5690	15.75	15.75		15.75	15.75	
		U-NII-3	802.11ac VHT80	155	5775	16.50	16.50	Yes	16.25	16.25	Yes

9.9. Bluetooth

From October 2016 TCB workshop, this device power and SAR measured is performed with test software, the duty cycle is 100%.

According to KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is $<1.6\text{W/kg}$ and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

Bluetooth (P_{low} , P_{high} , and $P_{\text{standalone}}$)

For Bluetooth, there are three use cases:

- Bluetooth P_{low} is used with Wi-Fi and WWAN antennas are active.
- Bluetooth P_{high} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth $P_{\text{standalone}}$ is used with Wi-Fi and WWAN antennas are inactive.

Mode	Maximum Output Power (Tune-up Limit) (dBm)											
	Bluetooth P_{low}				Bluetooth P_{high}				Bluetooth $P_{\text{standalone}}$			
	ANT3		ANT4		ANT3		ANT4		ANT3		ANT4	
	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GFSK	11.00	11.00	8.50	9.50	19.50	15.00	12.50	13.50	19.50	18.50	16.00	17.00
EDR	11.00	11.00	8.50	9.50	16.00	15.00	12.50	13.50	16.00	16.00	16.00	16.00
LE	11.00	11.00	8.50	9.50	19.50	15.00	12.50	13.50	19.50	18.50	16.00	17.00
HDR	11.00	11.00	8.50	9.50	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00

This device supports Bluetooth beamforming. SAR measurement is not required for Beamforming when the output power is equal or less than a single chain. Please refer to BT tune-up procedure.

Bluetooth Measured Results

SAR measurement is not required for the EDR, LE, and HDR. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Power Mode	Antenna	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
					Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Bluetooth P_{low}	ANT3	GFSK	0	2402	11.00	11.00	Yes	11.00	11.00	Yes
			39	2441	11.00	11.00		11.00	11.00	
			78	2480	11.00	11.00		11.00	11.00	
	ANT4	GFSK	0	2402	8.50	8.50	Yes	9.50	9.50	Yes
			39	2441	8.50	8.50		9.50	9.50	
			78	2480	8.50	8.50		9.50	9.50	
Bluetooth P_{high}	ANT3	GFSK	0	2402	19.50	19.50	Yes	15.00	15.00	Yes
			39	2441	19.50	19.50		15.00	15.00	
			78	2480	19.50	19.50		15.00	15.00	
	ANT4	GFSK	0	2402	12.50	12.50	Yes	13.50	13.50	Yes
			39	2441	12.50	12.50		13.50	13.50	
			78	2480	12.50	12.50		13.50	13.50	
Bluetooth $P_{\text{standalone}}$	ANT3	GFSK	0	2402	19.50	19.50	Yes	18.50	18.50	Yes
			39	2441	19.50	19.50		18.50	18.50	
			78	2480	19.50	19.50		18.50	18.50	
	ANT4	GFSK	0	2402	16.00	16.00	Yes	17.00	17.00	Yes
			39	2441	16.00	16.00		17.00	17.00	
			78	2480	16.00	16.00		17.00	17.00	

Duty Factor Measured Results

Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

Note(s):

Duty Cycle = (T on / period) * 100%

Duty Cycle plots

GFSK



10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for WWAN = Measured SAR *Tune-up Scaling Factor
- Reported SAR(W/kg) for Wi-Fi and Bluetooth = Measured SAR * Tune-up scaling factor * Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

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 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm.

When hotspot mode does not apply, 10-g Extremity SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Additional 1-g SAR testing at 5 mm is not required when hotspot mode 10-g extremity SAR is not required for the surfaces and edges; since all 1-g reported SAR < 1.2 W/kg.

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

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	32.25	32.25	0.179	0.179	0.137	0.137	
					Left Tilt	190	836.6	32.25	32.25	0.126	0.126	0.097	0.097	
					Right Touch	190	836.6	32.25	32.25	0.216	0.216	0.159	0.159	1
					Right Tilt	190	836.6	32.25	32.25	0.123	0.123	0.094	0.094	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	32.25	32.25	0.268	0.268	0.171	0.171	
					Front	190	836.6	32.25	32.25	0.279	0.279	0.177	0.177	2
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	32.25	32.25	0.383	0.383	0.245	0.245	3
					Edge 3	190	836.6	32.25	32.25	0.236	0.236	0.112	0.112	
					Edge 4	190	836.6	32.25	32.25	0.148	0.148	0.096	0.096	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	30.75	30.45	0.147	0.158	0.087	0.093	
					Left Tilt	190	836.6	30.75	30.45	0.151	0.162	0.081	0.087	
					Right Touch	190	836.6	30.75	30.45	0.181	0.194	0.121	0.130	
					Right Tilt	190	836.6	30.75	30.45	0.239	0.256	0.121	0.130	4
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	30.75	30.45	0.284	0.304	0.152	0.163	5
					Front	190	836.6	30.75	30.45	0.144	0.154	0.077	0.083	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	30.75	30.45	0.172	0.184	0.079	0.085	
					Edge 2	190	836.6	30.75	30.45	0.117	0.125	0.076	0.081	
					Edge 4	190	836.6	30.75	30.45	0.117	0.125	0.076	0.081	

10.2. GSM1900

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	30.75	30.30	0.104	0.115	0.060	0.067	6
					Left Tilt	661	1880.0	30.75	30.30	0.058	0.064	0.034	0.038	
					Right Touch	661	1880.0	30.75	30.30	0.181	0.201	0.113	0.125	
					Right Tilt	661	1880.0	30.75	30.30	0.102	0.113	0.061	0.068	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.25	27.24	0.857	0.859	0.401	0.402	7
						661	1880.0	27.25	27.14	0.856	0.878	0.399	0.409	
						810	1909.8	27.25	27.07	0.817	0.852	0.387	0.403	
					Front	661	1880.0	27.25	27.14	0.439	0.450	0.242	0.248	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	27.25	27.14	0.490	0.503	0.226	0.232	
					Edge 3	661	1880.0	27.25	27.14	0.473	0.485	0.234	0.240	
					Edge 4	661	1880.0	27.25	27.14	0.036	0.037	0.002	0.002	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	28.25	28.07	0.084	0.088	0.046	0.048	8
					Left Tilt	661	1880.0	28.25	28.07	0.096	0.100	0.048	0.050	
					Right Touch	661	1880.0	28.25	28.07	0.645	0.672	0.338	0.352	
					Right Tilt	661	1880.0	28.25	28.07	0.594	0.619	0.276	0.288	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	25.25	25.20	0.884	0.894	0.403	0.408	9
						661	1880.0	25.25	25.15	0.858	0.878	0.391	0.400	
						810	1909.8	25.25	25.05	0.764	0.800	0.348	0.364	
					Front	661	1880.0	25.25	25.15	0.205	0.210	0.107	0.109	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	25.25	25.15	0.195	0.200	0.085	0.087	
					Edge 2	661	1880.0	25.25	25.15	0.015	0.015	0.007	0.007	
					Edge 4	661	1880.0	25.25	25.15	0.297	0.304	0.151	0.155	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	31.00	30.51	0.254	0.284	0.156	0.175	10
					Left Tilt	661	1880.0	31.00	30.51	0.193	0.216	0.115	0.129	
					Right Touch	661	1880.0	31.00	30.51	0.120	0.134	0.078	0.087	
					Right Tilt	661	1880.0	31.00	30.51	0.112	0.125	0.063	0.071	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.50	26.15	0.893	0.968	0.462	0.501	11
						661	1880.0	26.50	26.18	0.905	0.974	0.467	0.503	
						810	1909.8	26.50	26.20	0.870	0.932	0.457	0.490	
					Front	661	1880.0	26.50	26.18	0.369	0.397	0.207	0.223	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 3	661	1880.0	26.50	26.18	0.225	0.242	0.123	0.132	
					Edge 4	661	1880.0	26.50	26.18	0.587	0.632	0.298	0.321	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT4	Head	GPRS 2 Slots	Mode A	0	Left Touch	512	1850.2	24.00	23.80	0.824	0.863	0.412	0.431	12
						661	1880.0	24.00	24.00	0.912	0.912	0.466	0.466	
						810	1909.8	24.00	24.00	0.966	0.966	0.472	0.472	
					Left Tilt	661	1880.0	24.00	24.00	0.498	0.498	0.254	0.254	
					Right Touch	661	1880.0	24.00	24.00	0.194	0.194	0.119	0.119	
					Right Tilt	661	1880.0	24.00	24.00	0.183	0.183	0.101	0.101	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	25.00	24.50	0.514	0.577	0.255	0.286	13
					Front	661	1880.0	25.00	24.50	0.434	0.487	0.225	0.252	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	25.00	24.50	0.174	0.195	0.085	0.095	
					Edge 2	512	1850.2	25.00	24.50	0.678	0.761	0.312	0.350	
						661	1880.0	25.00	24.50	0.755	0.847	0.347	0.389	
						810	1909.8	25.00	24.50	0.800	0.898	0.369	0.414	14

10.3. W-CDMA Band II

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9400	1880.0	25.70	25.30	0.127	0.139	0.083	0.091	15
					Left Tilt	9400	1880.0	25.70	25.30	0.104	0.114	0.061	0.067	
					Right Touch	9400	1880.0	25.70	25.30	0.271	0.297	0.171	0.187	
					Right Tilt	9400	1880.0	25.70	25.30	0.129	0.141	0.171	0.187	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	21.25	21.18	0.895	0.910	0.410	0.417	16
						9400	1880.0	21.25	21.20	0.923	0.934	0.426	0.431	
						9538	1907.6	21.25	21.25	0.991	0.991	0.462	0.462	
					Front	9400	1880.0	21.25	21.20	0.477	0.483	0.267	0.270	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9400	1880.0	21.25	21.20	0.553	0.559	0.263	0.266	
					Edge 3	9400	1880.0	21.25	21.20	0.643	0.650	0.318	0.322	
Edge 4					9400	1880.0	21.25	21.20	0.043	0.043	0.023	0.023		
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9400	1880.0	22.00	21.91	0.196	0.200	0.114	0.116	17
					Left Tilt	9400	1880.0	22.00	21.91	0.226	0.231	0.118	0.120	
					Right Touch	9262	1852.4	22.00	21.83	0.907	0.943	0.468	0.487	
						9400	1880.0	22.00	21.91	0.898	0.917	0.469	0.479	
						9538	1907.6	22.00	21.99	0.918	0.920	0.478	0.479	
					Right Tilt	9262	1852.4	22.00	21.83	0.942	0.980	0.437	0.454	
						9400	1880.0	22.00	21.91	0.897	0.916	0.418	0.427	
						9538	1907.6	22.00	21.99	0.912	0.914	0.429	0.430	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	19.25	19.15	0.863	0.883	0.391	0.400	18
						9400	1880.0	19.25	19.20	0.868	0.878	0.396	0.401	
						9538	1907.6	19.25	19.11	0.823	0.850	0.365	0.377	
					Front	9400	1880.0	19.25	19.20	0.656	0.664	0.308	0.312	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	19.25	19.20	0.272	0.275	0.113	0.114	
Edge 2					9400	1880.0	19.25	19.20	0.034	0.034	0.018	0.018		
Edge 4					9400	1880.0	19.25	19.20	0.345	0.349	0.180	0.182		
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9400	1880.0	25.00	24.70	0.468	0.501	0.291	0.312	19
					Left Tilt	9400	1880.0	25.00	24.70	0.196	0.210	0.120	0.129	
					Right Touch	9400	1880.0	25.00	24.70	0.227	0.243	0.147	0.158	
					Right Tilt	9400	1880.0	25.00	24.70	0.230	0.246	0.127	0.136	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	20.50	20.38	0.859	0.883	0.452	0.465	20
						9400	1880.0	20.50	20.40	0.882	0.903	0.461	0.472	
						9538	1907.6	20.50	20.40	0.955	0.977	0.508	0.520	
					Front	9400	1880.0	20.50	20.40	0.532	0.544	0.296	0.303	
Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	9400	1880.0	20.50	20.40	0.283	0.290	0.156	0.160		
				Edge 4	9400	1880.0	20.50	20.40	0.653	0.668	0.341	0.349		
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9262	1852.4	17.75	17.45	0.735	0.788	0.360	0.386	21
						9400	1880.0	17.75	17.57	0.859	0.895	0.418	0.436	
						9538	1907.6	17.75	17.60	0.888	0.919	0.428	0.443	
					Left Tilt	9400	1880.0	17.75	17.57	0.543	0.566	0.264	0.275	
					Right Touch	9400	1880.0	17.75	17.57	0.212	0.221	0.129	0.134	
					Right Tilt	9400	1880.0	17.75	17.57	0.185	0.193	0.101	0.105	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	19.00	18.83	0.478	0.497	0.251	0.261	22
					Front	9400	1880.0	19.00	18.83	0.366	0.381	0.196	0.204	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	19.00	18.83	0.225	0.234	0.111	0.115	
					Edge 2	9262	1852.4	19.00	18.70	0.724	0.776	0.342	0.366	
9400						1880.0	19.00	18.83	0.816	0.849	0.386	0.401	23	

10.4. W-CDMA Band IV

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	25.70	25.51	0.140	0.146	0.094	0.098	24
					Left Tilt	1413	1732.6	25.70	25.51	0.105	0.110	0.065	0.068	
					Right Touch	1413	1732.6	25.70	25.51	0.241	0.252	0.160	0.167	
					Right Tilt	1413	1732.6	25.70	25.51	0.116	0.121	0.074	0.077	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	17.50	17.47	0.473	0.476	0.248	0.250	25
					Front	1413	1732.6	17.50	17.47	0.350	0.352	0.180	0.181	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	17.50	17.47	0.183	0.184	0.098	0.099	26
					Edge 3	1312	1712.4	17.50	17.50	0.900	0.900	0.422	0.422	
						1413	1732.6	17.50	17.47	0.903	0.909	0.425	0.428	
					Edge 4	1413	1732.6	17.50	17.49	0.897	0.899	0.424	0.425	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	22.00	21.78	0.216	0.227	0.128	0.135	27
					Left Tilt	1413	1732.6	22.00	21.78	0.308	0.324	0.161	0.169	
					Right Touch	1312	1712.4	22.00	21.79	0.864	0.907	0.438	0.460	
						1413	1732.6	22.00	21.78	0.912	0.959	0.471	0.495	
						1513	1752.6	22.00	21.59	0.836	0.919	0.435	0.478	
					Right Tilt	1312	1712.4	22.00	21.79	0.863	0.906	0.402	0.422	
						1413	1732.6	22.00	21.78	0.930	0.978	0.439	0.462	
						1513	1752.6	22.00	21.59	0.877	0.964	0.408	0.448	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	19.50	19.04	0.682	0.758	0.311	0.346	28
						1413	1732.6	19.50	19.02	0.759	0.848	0.344	0.384	
						1513	1752.6	19.50	19.05	0.731	0.811	0.336	0.373	
					Front	1413	1732.6	19.50	19.02	0.224	0.250	0.114	0.127	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	19.50	19.02	0.251	0.280	0.114	0.127	
					Edge 2	1413	1732.6	19.50	19.02	0.004	0.004	0.001	0.001	
					Edge 4	1413	1732.6	19.50	19.02	0.201	0.224	0.109	0.122	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT3	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	25.00	24.78	0.280	0.295	0.151	0.159	29
					Left Tilt	1413	1732.6	25.00	24.78	0.270	0.284	0.163	0.171	
					Right Touch	1413	1732.6	25.00	24.78	0.304	0.320	0.196	0.206	
					Right Tilt	1413	1732.6	25.00	24.78	0.153	0.161	0.091	0.096	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.00	20.50	0.809	0.908	0.431	0.484	30
						1413	1732.6	21.00	20.55	0.879	0.975	0.476	0.528	
						1513	1752.6	21.00	20.50	0.812	0.911	0.330	0.370	
					Front	1413	1732.6	21.00	20.55	0.229	0.254	0.141	0.156	
Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	1413	1732.6	21.00	20.55	0.134	0.149	0.057	0.063		
				Edge 4	1413	1732.6	21.00	20.55	0.594	0.659	0.307	0.341		
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1312	1712.4	21.25	20.85	0.650	0.713	0.344	0.377	31
						1413	1732.6	21.25	20.85	0.737	0.808	0.390	0.428	
						1513	1752.6	21.25	20.85	0.839	0.920	0.445	0.488	
					Left Tilt	1413	1732.6	21.25	20.85	0.549	0.602	0.266	0.292	
					Right Touch	1413	1732.6	21.25	20.85	0.169	0.185	0.091	0.100	
					RightTilt	1413	1732.6	21.25	20.85	0.160	0.175	0.084	0.092	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	21.50	21.30	0.475	0.497	0.230	0.241	32
					Front	1413	1732.6	21.50	21.30	0.319	0.334	0.163	0.171	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	21.50	21.30	0.270	0.283	0.130	0.136	33
					Edge 2	1312	1712.4	21.50	21.35	0.680	0.704	0.325	0.336	
1413						1732.6	21.50	21.30	0.840	0.880	0.393	0.412		
1513						1752.6	21.50	21.33	0.833	0.866	0.298	0.310		

10.5. W-CDMA Band V

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	4183	836.6	25.70	25.46	0.199	0.210	0.152	0.161	34
					Left Tilt	4183	836.6	25.70	25.46	0.136	0.144	0.104	0.110	
					Right Touch	4183	836.6	25.70	25.46	0.254	0.268	0.186	0.197	
					Right Tilt	4183	836.6	25.70	25.46	0.120	0.127	0.092	0.097	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.70	25.46	0.497	0.525	0.327	0.346	35
					Front	4183	836.6	25.70	25.46	0.295	0.312	0.190	0.201	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.70	25.46	0.409	0.432	0.262	0.277	
					Edge 3	4183	836.6	25.70	25.46	0.277	0.293	0.113	0.119	
					Edge 4	4183	836.6	25.70	25.46	0.166	0.175	0.106	0.112	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	4183	836.6	24.50	24.32	0.236	0.246	0.140	0.146	36
					Left Tilt	4183	836.6	24.50	24.32	0.278	0.290	0.147	0.153	
					Right Touch	4183	836.6	24.50	24.32	0.326	0.340	0.236	0.246	
					Right Tilt	4183	836.6	24.50	24.32	0.396	0.413	0.201	0.210	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.50	24.32	0.476	0.496	0.255	0.266	37
					Front	4183	836.6	24.50	24.32	0.326	0.340	0.172	0.179	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.50	24.32	0.352	0.367	0.161	0.168	
					Edge 2	4183	836.6	24.50	24.32	0.061	0.064	0.039	0.041	
					Edge 4	4183	836.6	24.50	24.32	0.277	0.289	0.177	0.184	

10.6. CDMA BC0

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	384	836.5	25.70	25.68	0.194	0.195	0.148	0.149	38
					Left Tilt	384	836.5	25.70	25.68	0.118	0.119	0.090	0.090	
					Right Touch	384	836.5	25.70	25.68	0.215	0.216	0.162	0.163	
					Right Tilt	384	836.5	25.70	25.68	0.101	0.101	0.078	0.078	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.70	25.70	0.196	0.196	0.148	0.148	
					Left Tilt	384	836.5	25.70	25.70	0.108	0.108	0.082	0.082	
					Right Touch	384	836.5	25.70	25.70	0.215	0.215	0.161	0.161	
					Right Tilt	384	836.5	25.70	25.70	0.094	0.094	0.072	0.072	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.70	25.68	0.559	0.562	0.364	0.366	39
					Front	384	836.5	25.70	25.68	0.298	0.299	0.189	0.190	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.70	25.68	0.430	0.432	0.276	0.277	
					Edge 3	384	836.5	25.70	25.68	0.290	0.291	0.141	0.142	
					Edge 4	384	836.5	25.70	25.68	0.162	0.163	0.104	0.104	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	384	836.5	24.50	24.49	0.338	0.339	0.196	0.196	40
					Left Tilt	384	836.5	24.50	24.49	0.322	0.323	0.166	0.166	
					Right Touch	384	836.5	24.50	24.49	0.432	0.433	0.258	0.259	
					Right Tilt	384	836.5	24.50	24.49	0.431	0.432	0.216	0.216	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	24.50	24.47	0.182	0.183	0.135	0.136	
					Left Tilt	384	836.5	24.50	24.47	0.309	0.311	0.161	0.162	
					Right Touch	384	836.5	24.50	24.47	0.345	0.347	0.243	0.245	
					Right Tilt	384	836.5	24.50	24.47	0.421	0.424	0.215	0.216	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	24.50	24.44	0.609	0.617	0.325	0.330	41
					Front	384	836.5	24.50	24.44	0.365	0.370	0.189	0.192	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	24.50	24.44	0.371	0.376	0.167	0.169	
					Edge 2	384	836.5	24.50	24.44	0.064	0.065	0.041	0.042	
					Edge 4	384	836.5	24.50	24.44	0.309	0.313	0.196	0.199	

10.7. CDMA BC1

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	600	1880.0	25.70	25.30	0.178	0.195	0.112	0.123	42
					Left Tilt	600	1880.0	25.70	25.30	0.110	0.121	0.072	0.079	
					Right Touch	600	1880.0	25.70	25.30	0.337	0.370	0.199	0.218	
					Right Tilt	600	1880.0	25.70	25.30	0.135	0.148	0.084	0.092	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.70	25.30	0.180	0.197	0.112	0.123	
					Left Tilt	600	1880.0	25.70	25.30	0.101	0.111	0.063	0.069	
					Right Touch	600	1880.0	25.70	25.30	0.287	0.315	0.173	0.190	
					Right Tilt	600	1880.0	25.70	25.30	0.141	0.155	0.086	0.094	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	21.25	21.13	0.953	0.980	0.447	0.460	43
						600	1880.0	21.25	21.09	0.946	0.982	0.386	0.400	
						1175	1908.8	21.25	21.21	0.951	0.960	0.451	0.455	
					Front	600	1880.0	21.25	21.09	0.451	0.468	0.249	0.258	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Edge 2	600	1880.0	21.25	21.09	0.682	0.708	0.311	0.323	
					Edge 3	600	1880.0	21.25	21.09	0.678	0.703	0.339	0.352	
					Edge 4	600	1880.0	21.25	21.09	0.058	0.060	0.030	0.031	
					Left Touch	600	1880.0	22.00	22.00	0.240	0.240	0.143	0.143	
					Left Tilt	600	1880.0	22.00	22.00	0.250	0.250	0.126	0.126	
					Right Touch	25	1851.3	22.00	21.95	0.963	0.974	0.495	0.501	
						600	1880.0	22.00	22.00	0.995	0.995	0.521	0.521	
					Right Tilt	1175	1908.8	22.00	22.00	0.773	0.773	0.424	0.424	
						25	1851.3	22.00	21.95	0.979	0.990	0.459	0.464	
						600	1880.0	22.00	22.00	0.988	0.988	0.466	0.466	
		1xEVDO Rel. 0	Mode A	0	Left Touch	1175	1908.8	22.00	22.00	0.997	0.997	0.472	0.472	44
						600	1880.0	22.00	21.95	0.217	0.220	0.126	0.127	
					Left Tilt	600	1880.0	22.00	21.95	0.250	0.253	0.129	0.130	
						25	1851.3	22.00	22.00	0.999	0.999	0.521	0.521	
					Right Touch	600	1880.0	22.00	21.95	0.976	0.987	0.510	0.516	
						1175	1908.8	22.00	21.95	0.986	0.997	0.517	0.523	
						25	1851.3	22.00	22.00	0.945	0.945	0.427	0.427	
					Right Tilt	600	1880.0	22.00	21.95	0.935	0.946	0.417	0.422	
						1175	1908.8	22.00	21.95	0.939	0.950	0.426	0.431	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	19.25	19.13	0.840	0.864	0.385	0.396	45
						600	1880.0	19.25	19.16	0.805	0.822	0.365	0.373	
						1175	1908.8	19.25	19.01	0.790	0.835	0.348	0.368	
					Front	600	1880.0	19.25	19.16	0.340	0.347	0.177	0.181	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	600	1880.0	19.25	19.16	0.366	0.374	0.146	0.149	
					Edge 2	600	1880.0	19.25	19.16	0.036	0.037	0.018	0.018	
					Edge 4	600	1880.0	19.25	19.16	0.436	0.445	0.225	0.230	

10.8. CDMA BC10

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	560	820.0	25.70	25.68	0.181	0.182	0.139	0.140	
					Left Tilt	560	820.0	25.70	25.68	0.093	0.093	0.072	0.072	
					Right Touch	560	820.0	25.70	25.68	0.210	0.211	0.160	0.161	
					Right Tilt	560	820.0	25.70	25.68	0.104	0.104	0.081	0.081	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.70	25.70	0.175	0.175	0.132	0.132	
					Left Tilt	560	820.0	25.70	25.70	0.108	0.108	0.082	0.082	
					Right Touch	560	820.0	25.70	25.70	0.242	0.242	0.182	0.182	46
					Right Tilt	560	820.0	25.70	25.70	0.112	0.112	0.085	0.085	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.70	25.68	0.480	0.482	0.306	0.307	47
					Front	560	820.0	25.70	25.68	0.271	0.272	0.173	0.174	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.70	25.68	0.439	0.441	0.282	0.283	
					Edge 3	560	820.0	25.70	25.68	0.243	0.244	0.118	0.119	
					Edge 4	560	820.0	25.70	25.68	0.187	0.188	0.121	0.122	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	560	820.0	24.50	24.40	0.269	0.275	0.155	0.159	
					Left Tilt	560	820.0	24.50	24.40	0.283	0.290	0.146	0.149	
					Right Touch	560	820.0	24.50	24.40	0.292	0.299	0.198	0.203	
					Right Tilt	560	820.0	24.50	24.40	0.371	0.380	0.187	0.191	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	24.50	24.47	0.280	0.282	0.161	0.162	
					Left Tilt	560	820.0	24.50	24.47	0.279	0.281	0.144	0.145	
					Right Touch	560	820.0	24.50	24.47	0.439	0.442	0.253	0.255	48
					Right Tilt	560	820.0	24.50	24.47	0.396	0.399	0.198	0.199	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	24.50	24.44	0.538	0.545	0.285	0.289	49
					Front	560	820.0	24.50	24.44	0.257	0.261	0.139	0.141	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	24.50	24.44	0.324	0.329	0.145	0.147	
					Edge 2	560	820.0	24.50	24.44	0.066	0.067	0.043	0.044	
					Edge 4	560	820.0	24.50	24.44	0.264	0.268	0.167	0.169	

10.9. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	25.70	25.60	0.188	0.192	0.143	0.146	50
								25	12	24.70	24.20	0.149	0.167	0.113	0.127	
					Left Tilt	20525	836.5	1	25	25.70	25.60	0.108	0.111	0.083	0.085	
								25	12	24.70	24.20	0.081	0.090	0.062	0.069	
					Right Touch	20525	836.5	1	25	25.70	25.60	0.199	0.204	0.153	0.157	
								25	12	24.70	24.20	0.158	0.177	0.121	0.136	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	20525	836.5	1	25	25.70	25.60	0.104	0.106	0.080	0.082	51
								25	12	24.70	24.20	0.084	0.094	0.065	0.073	
					Rear	20525	836.5	1	25	25.70	25.60	0.461	0.472	0.293	0.300	
								25	12	24.70	24.20	0.365	0.410	0.230	0.258	
					Front	20525	836.5	1	25	25.70	25.60	0.250	0.256	0.161	0.165	
								25	12	24.70	24.20	0.204	0.229	0.131	0.147	
	Hotspot	QPSK	Mode B	5	Edge 2	20525	836.5	1	25	25.70	25.60	0.392	0.401	0.249	0.255	
								25	12	24.70	24.20	0.320	0.359	0.204	0.229	
					Edge 3	20525	836.5	1	25	25.70	25.60	0.230	0.235	0.109	0.112	
								25	12	24.70	24.20	0.195	0.219	0.092	0.103	
					Edge 4	20525	836.5	1	25	25.70	25.60	0.160	0.164	0.102	0.104	
								25	12	24.70	24.20	0.128	0.144	0.081	0.091	
Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	24.50	24.40	0.268	0.274	0.156	0.160	52
								25	12	23.50	23.31	0.215	0.225	0.124	0.130	
					Left Tilt	20525	836.5	1	25	24.50	24.40	0.278	0.284	0.145	0.148	
								25	12	23.50	23.31	0.218	0.228	0.114	0.119	
					Right Touch	20525	836.5	1	25	24.50	24.40	0.436	0.446	0.252	0.258	
								25	12	23.50	23.31	0.349	0.365	0.202	0.211	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	20525	836.5	1	25	24.50	24.40	0.491	0.502	0.239	0.245	53
								25	12	23.50	23.31	0.391	0.408	0.190	0.198	
					Rear	20525	836.5	1	25	24.50	24.40	0.567	0.580	0.290	0.297	
								25	12	23.50	23.31	0.448	0.468	0.228	0.238	
					Front	20525	836.5	1	25	24.50	24.40	0.261	0.267	0.137	0.140	
								25	12	23.50	23.31	0.205	0.214	0.108	0.113	
	Hotspot	QPSK	Mode B	5	Edge 1	20525	836.5	1	25	24.50	24.40	0.336	0.344	0.151	0.155	
								25	12	23.50	23.31	0.283	0.296	0.126	0.132	
					Edge 2	20525	836.5	1	25	24.50	24.40	0.051	0.052	0.032	0.033	
								25	12	23.50	23.31	0.041	0.043	0.026	0.027	
					Edge 4	20525	836.5	1	25	24.50	24.40	0.231	0.236	0.147	0.150	
								25	12	23.50	23.31	0.181	0.189	0.115	0.120	

UL CA 5B

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	20525	836.5	1	49	20599	843.9	1	0	25.00	24.96	0.184	0.186	0.140	0.141	
ANT 1	Body	QPSK	Mode B	5	Rear	20525	836.5	1	49	20599	843.9	1	0	25.00	24.96	0.433	0.437	0.223	0.225	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	1	49	20599	843.9	1	0	23.50	23.42	0.408	0.432	0.256	0.261	
ANT 2	Body	QPSK	Mode B	5	Rear	20525	836.5	1	49	20599	843.9	1	0	23.50	23.40	0.377	0.386	0.200	0.205	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

10.10. LTE Band 7 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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				
ANT1	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	25.70	25.35	0.189	0.205	0.106	0.115	54			
								50	24	24.70	24.23	0.153	0.170	0.086	0.096				
					Left Tilt	21100	2535.0	1	49	25.70	25.35	0.138	0.150	0.069	0.075				
								50	24	24.70	24.23	0.115	0.128	0.056	0.063				
					Right Touch	21100	2535.0	1	49	25.70	25.35	0.355	0.385	0.180	0.195				
								50	24	24.70	24.23	0.343	0.382	0.189	0.211				
					Right Tilt	21100	2535.0	1	49	25.70	25.35	0.131	0.142	0.068	0.074				
								50	24	24.70	24.23	0.103	0.115	0.053	0.059				
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	20.25	20.10	0.650	0.673	0.302	0.313	55			
								50	24	20.25	19.88	0.650	0.708	0.299	0.326				
					Front	21100	2535.0	1	49	20.25	20.10	0.284	0.287	0.137	0.139				
								50	24	20.25	19.88	0.278	0.280	0.131	0.132				
	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	49	20.25	19.95	0.819	0.878	0.326	0.349	56			
								50	24	20.25	19.75	0.841	0.944	0.342	0.384				
						21100	2535.0	1	49	20.25	20.10	0.874	0.905	0.350	0.362				
								50	24	20.25	19.88	0.845	0.920	0.341	0.371				
						21350	2560.0	100	0	20.25	19.80	0.836	0.927	0.337	0.374				
								1	49	20.25	20.20	0.859	0.869	0.342	0.346				
					Edge 3	21100	2535.0	50	24	20.25	19.99	0.881	0.935	0.357	0.379				
								1	49	20.25	20.10	0.432	0.447	0.161	0.167				
					Edge 4	21100	2535.0	50	24	20.25	19.88	0.472	0.514	0.180	0.196				
								1	49	20.25	20.10	0.055	0.057	0.027	0.028				
								50	24	20.25	19.88	0.055	0.060	0.027	0.029				
Antenna	RF Exposure Conditions	Mode	Power 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.			
ANT2	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	19.25	18.95	0.626	0.671	0.245	0.263	57			
								50	24	19.25	18.85	0.631	0.692	0.246	0.270				
					Left Tilt	20850	2510.0	1	49	19.25	19.10	0.867	0.897	0.333	0.345				
								50	24	19.25	19.00	0.873	0.925	0.333	0.353				
						21100	2535.0	1	49	19.25	18.95	0.839	0.899	0.317	0.340				
								50	24	19.25	18.85	0.842	0.923	0.317	0.348				
						21350	2560.0	100	0	19.25	18.76	0.750	0.840	0.282	0.316				
								1	49	19.25	18.90	0.875	0.948	0.326	0.353				
					Right Touch	21100	2535.0	50	24	19.25	18.89	0.867	0.942	0.324	0.352				
								1	49	19.25	18.95	0.652	0.699	0.252	0.270				
					Right Tilt	21100	2535.0	50	24	19.25	18.85	0.660	0.724	0.254	0.279				
								1	49	19.25	18.95	0.690	0.739	0.257	0.275				
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	50	24	20.50	20.10	0.742	0.814	0.311	0.341	58			
								1	49	20.50	20.20	0.759	0.813	0.327	0.350				
						21100	2535.0	50	24	20.50	20.25	0.774	0.820	0.335	0.355				
								100	0	20.50	20.25	0.775	0.821	0.336	0.356				
						21350	2560.0	1	49	20.50	20.25	0.765	0.810	0.335	0.355				
								50	24	20.50	20.25	0.770	0.816	0.337	0.357				
					Front	21100	2535.0	1	49	20.50	20.25	0.550	0.583	0.217	0.230				
								50	24	20.50	20.25	0.539	0.571	0.212	0.225				
					Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	20.50	20.25	0.709	0.751	0.264	0.280
												50	24	20.50	20.25	0.723	0.766	0.269	0.285
	Edge 2	21100	2535.0	1					49	20.50	20.25	0.072	0.076	0.040	0.042				
50				24					20.50	20.25	0.070	0.074	0.038	0.040					
Edge 4	21100	2535.0	1	49					20.50	20.25	0.606	0.642	0.250	0.265					
			50	24					20.50	20.25	0.580	0.614	0.238	0.252					

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	25.00	24.92	0.631	0.643	0.349	0.355	59
								50	24	24.00	23.97	0.489	0.492	0.269	0.271	
					Left Tilt	21100	2535.0	1	49	25.00	24.92	0.215	0.219	0.114	0.116	
								50	24	24.00	23.97	0.145	0.146	0.078	0.078	
					Right Touch	21100	2535.0	1	49	25.00	24.92	0.444	0.452	0.254	0.259	
								50	24	24.00	23.97	0.354	0.356	0.203	0.204	
					Right Tilt	21100	2535.0	1	49	25.00	24.92	0.434	0.442	0.221	0.225	
								50	24	24.00	23.97	0.337	0.339	0.172	0.173	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	20.00	19.65	0.760	0.824	0.378	0.380	60
								50	24	20.00	19.50	0.761	0.854	0.379	0.383	
						21100	2535.0	1	49	20.00	19.85	0.873	0.904	0.402	0.427	
								50	24	20.00	19.75	0.869	0.920	0.408	0.440	
						21350	2560.0	100	0	20.00	19.66	0.882	0.954	0.413	0.438	
								1	49	20.00	19.80	0.761	0.797	0.358	0.360	
					Front	21100	2535.0	50	24	20.00	19.90	0.759	0.777	0.358	0.362	
								1	49	20.00	19.85	0.349	0.361	0.173	0.184	
						21100	2535.0	50	24	20.00	19.75	0.361	0.382	0.180	0.194	
								1	49	20.00	19.85	0.093	0.097	0.047	0.050	
ANT4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	49	18.00	17.56	0.902	0.998	0.434	0.480	61
								50	24	18.00	17.68	0.897	0.966	0.432	0.465	
						21100	2535.0	1	49	18.00	17.71	0.854	0.913	0.406	0.434	
								50	24	18.00	17.67	0.847	0.914	0.402	0.434	
					Left Tilt	21350	2560.0	100	0	18.00	17.64	0.829	0.901	0.394	0.428	
								1	49	18.00	17.76	0.927	0.980	0.430	0.454	
						21100	2535.0	50	24	18.00	17.72	0.923	0.984	0.429	0.458	
								1	49	18.00	17.68	0.704	0.779	0.324	0.359	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	50	24	18.00	17.68	0.701	0.755	0.322	0.347	62
								1	49	18.00	17.71	0.844	0.902	0.379	0.405	
						21100	2535.0	50	24	18.00	17.67	0.854	0.921	0.384	0.414	
								100	0	18.00	17.64	0.849	0.922	0.392	0.426	
						21350	2560.0	1	49	18.00	17.76	0.664	0.702	0.294	0.311	
								50	24	18.00	17.72	0.660	0.704	0.293	0.313	
					Right Touch	21100	2535.0	1	49	18.00	17.71	0.253	0.270	0.131	0.140	
								50	24	18.00	17.67	0.220	0.237	0.114	0.123	
					Right Tilt	21100	2535.0	1	49	18.00	17.71	0.248	0.265	0.124	0.133	
								50	24	18.00	17.67	0.249	0.269	0.124	0.134	
	Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	18.50	18.25	0.832	0.881	0.420	0.445	
								50	24	18.50	18.50	0.891	0.891	0.421	0.421	
						21100	2535.0	1	49	18.50	18.20	0.786	0.842	0.391	0.419	
								50	24	18.50	18.25	0.793	0.840	0.393	0.416	
					Edge 2	21100	2535.0	100	0	18.50	18.27	0.790	0.833	0.375	0.395	
								1	49	18.50	18.27	0.837	0.883	0.401	0.423	
						21100	2535.0	50	24	18.50	18.50	0.890	0.890	0.423	0.423	
								1	49	18.50	18.20	0.421	0.451	0.239	0.256	

UL CA 7C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	21100	2535.0	1	99	21298	2554.8	1	0	25.00	24.83	0.341	0.355	0.193	0.201	
ANT 1	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	20.25	20.20	0.608	0.615	0.295	0.298	
ANT 1	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	99	21048	2529.8	1	0	20.25	20.22	0.789	0.794	0.321	0.323	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21350	2560.0	1	0	21152	2540.2	1	99	19.25	19.12	0.806	0.830	0.306	0.315	
ANT 2	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	20.50	20.50	0.304	0.304	0.310	0.310	
ANT 3	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	99	21298	2554.8	1	0	24.50	24.40	0.511	0.523	0.289	0.296	
ANT 3	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	20.00	20.00	0.827	0.827	0.390	0.390	
ANT 4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	99	21048	2529.8	1	0	18.00	17.95	0.894	0.904	0.410	0.415	
ANT 4	Body	QPSK	Mode B	5	Rear	20850	2510.0	1	99	21048	2529.8	1	0	18.50	18.50	0.537	0.537	0.255	0.255	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

10.11. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	25.70	25.30	0.196	0.215	0.154	0.169	
								25	12	24.70	24.30	0.159	0.174	0.124	0.136	
					Left Tilt	23095	707.5	1	25	25.70	25.30	0.093	0.102	0.074	0.081	
								25	12	24.70	24.30	0.076	0.083	0.061	0.067	
					Right Touch	23095	707.5	1	25	25.70	25.30	0.199	0.218	0.156	0.171	63
								25	12	24.70	24.30	0.166	0.182	0.129	0.141	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23095	707.5	1	25	25.70	25.30	0.154	0.169	0.121	0.133	
								25	12	24.70	24.30	0.106	0.116	0.084	0.092	
					Rear	23095	707.5	1	25	25.70	25.30	0.504	0.553	0.325	0.356	64
								25	12	24.70	24.30	0.393	0.431	0.253	0.277	
					Front	23095	707.5	1	25	25.70	25.30	0.273	0.299	0.186	0.204	
								25	12	24.70	24.30	0.214	0.235	0.145	0.159	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	25	25.70	25.30	0.597	0.655	0.401	0.440	65
								25	12	24.70	24.30	0.471	0.516	0.315	0.345	
					Edge 3	23095	707.5	1	25	25.70	25.30	0.147	0.161	0.074	0.081	
								25	12	24.70	24.30	0.111	0.122	0.056	0.061	
					Edge 4	23095	707.5	1	25	25.70	25.30	0.431	0.473	0.287	0.315	
								25	12	24.70	24.30	0.338	0.371	0.225	0.247	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	24.50	24.00	0.261	0.293	0.175	0.196	
								25	12	23.50	23.00	0.198	0.222	0.135	0.151	
					Left Tilt	23095	707.5	1	25	24.50	24.00	0.227	0.255	0.132	0.148	
								25	12	23.50	23.00	0.176	0.197	0.102	0.114	
					Right Touch	23095	707.5	1	25	24.50	24.00	0.340	0.381	0.228	0.256	66
								25	12	23.50	23.00	0.181	0.203	0.142	0.159	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23095	707.5	1	25	24.50	24.00	0.118	0.132	0.093	0.104	
								25	12	23.50	23.00	0.095	0.107	0.076	0.085	
					Rear	23095	707.5	1	25	24.50	24.00	0.289	0.324	0.172	0.193	67
								25	12	23.50	23.00	0.223	0.250	0.133	0.149	
					Front	23095	707.5	1	25	24.50	24.00	0.114	0.128	0.076	0.085	
								25	12	23.50	23.00	0.088	0.099	0.059	0.066	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	25	24.50	24.00	0.116	0.130	0.054	0.061	
								25	12	23.50	23.00	0.097	0.109	0.045	0.050	
					Edge 2	23095	707.5	1	25	24.50	24.00	0.166	0.186	0.110	0.123	
								25	12	23.50	23.00	0.128	0.144	0.086	0.097	
					Edge 4	23095	707.5	1	25	24.50	24.00	0.315	0.353	0.213	0.239	68
								25	12	23.50	23.00	0.252	0.283	0.170	0.191	

10.12. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	25.70	25.30	0.225	0.247	0.171	0.187	
								25	12	24.70	24.30	0.167	0.183	0.131	0.144	
					Left Tilt	23230	782.0	1	25	25.70	25.30	0.126	0.138	0.098	0.107	
								25	12	24.70	24.30	0.099	0.109	0.077	0.084	
					Right Touch	23230	782.0	1	25	25.70	25.30	0.244	0.268	0.190	0.208	69
								25	12	24.70	24.30	0.194	0.213	0.152	0.167	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23230	782.0	1	25	25.70	25.30	0.149	0.163	0.117	0.128	
								25	12	24.70	24.30	0.122	0.134	0.095	0.104	
					Rear	23230	782.0	1	25	25.70	25.30	0.445	0.488	0.284	0.311	70
								25	12	24.70	24.30	0.348	0.382	0.222	0.243	
					Front	23230	782.0	1	25	25.70	25.30	0.264	0.289	0.167	0.183	
								25	12	24.70	24.30	0.207	0.227	0.134	0.147	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	25	25.70	25.30	0.480	0.526	0.315	0.345	71
								25	12	24.70	24.30	0.385	0.422	0.253	0.277	
					Edge 3	23230	782.0	1	25	25.70	25.30	0.152	0.167	0.072	0.079	
								25	12	24.70	24.30	0.111	0.122	0.054	0.059	
					Edge 4	23230	782.0	1	25	25.70	25.30	0.304	0.333	0.198	0.217	
								25	12	24.70	24.30	0.239	0.262	0.157	0.172	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	24.50	24.10	0.249	0.273	0.169	0.185	
								25	12	23.50	23.00	0.193	0.217	0.130	0.146	
					Left Tilt	23230	782.0	1	25	24.50	24.10	0.202	0.221	0.117	0.128	
								25	12	23.50	23.00	0.157	0.176	0.090	0.101	
					Right Touch	23230	782.0	1	25	24.50	24.10	0.262	0.287	0.176	0.193	72
								25	12	23.50	23.00	0.206	0.231	0.134	0.150	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23230	782.0	1	25	24.50	24.10	0.209	0.229	0.109	0.120	
								25	12	23.50	23.00	0.167	0.187	0.087	0.098	
					Rear	23230	782.0	1	25	24.50	24.10	0.332	0.364	0.205	0.225	73
								25	12	23.50	23.00	0.264	0.296	0.162	0.182	
					Front	23230	782.0	1	25	24.50	24.10	0.151	0.166	0.099	0.109	
								25	12	23.50	23.00	0.119	0.134	0.078	0.088	
	Hotspot	QPSK	Mode B	5	Edge 1	23230	782.0	1	25	24.50	24.10	0.106	0.116	0.049	0.054	
								25	12	23.50	23.00	0.085	0.095	0.038	0.043	
					Edge 2	23230	782.0	1	25	24.50	24.10	0.160	0.175	0.106	0.116	
								25	12	23.50	23.00	0.124	0.139	0.081	0.091	
					Edge 4	23230	782.0	1	25	24.50	24.10	0.254	0.279	0.167	0.183	
								25	12	23.50	23.00	0.202	0.227	0.133	0.149	

10.13. LTE Band 25 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Pow er Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocatio n	RB offset	Pow er (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.					
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled						
ANT1	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	25.70	25.45	0.168	0.178	0.107	0.114						
								50	24	24.70	24.42	0.130	0.139	0.083	0.089						
					Left Tilt	26365	1882.5	1	49	25.70	25.45	0.106	0.112	0.064	0.068						
								50	24	24.70	24.42	0.083	0.089	0.050	0.053						
					Right Touch	26365	1882.5	1	49	25.70	25.45	0.302	0.320	0.187	0.198	74					
								50	24	24.70	24.42	0.238	0.254	0.147	0.157						
					Right Tilt	26365	1882.5	1	49	25.70	25.45	0.134	0.142	0.080	0.085						
								50	24	24.70	24.42	0.103	0.110	0.061	0.065						
					Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	21.25	21.25	0.991	0.991	0.454	0.454		
												50	24	21.25	21.20	0.980	0.991	0.448	0.453		
										26365	1882.5	1	49	21.25	21.25	0.996	0.996	0.413	0.413		
												50	24	21.25	21.22	0.989	0.996	0.433	0.436		
	26590	1905.0	100	0					21.25	21.25	0.994	0.994	0.435	0.435							
			50	24					21.25	21.25	0.996	0.996	0.457	0.457							
	Front	26365	1882.5	1					49	21.25	21.25	0.433	0.433	0.207	0.207						
				50					24	21.25	21.22	0.482	0.485	0.241	0.243						
	Hotspot	QPSK	Mode B	5	Edge 2	26365	1882.5	1	49	21.25	21.25	0.570	0.570	0.266	0.266						
								50	24	21.25	21.22	0.569	0.573	0.264	0.266						
					Edge 3	26365	1882.5	1	49	21.25	21.25	0.573	0.573	0.281	0.281						
								50	24	21.25	21.22	0.580	0.584	0.283	0.285						
					Edge 4	26365	1882.5	1	49	21.25	21.25	0.032	0.032	0.017	0.017						
								50	24	21.25	21.22	0.032	0.032	0.017	0.017						
					ANT2	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	22.00	21.70	0.198	0.212	0.109	0.117	
													50	24	22.00	21.60	0.188	0.206	0.103	0.113	
Left Tilt	26365	1882.5	1	49						22.00	21.70	0.225	0.241	0.113	0.121						
			50	24						22.00	21.60	0.214	0.235	0.108	0.118						
Right Touch	26140	1860.0	1	49						22.00	21.70	0.928	0.994	0.483	0.518	76					
			50	24						22.00	21.60	0.886	0.971	0.460	0.504						
	26365	1882.5	1	49						22.00	21.70	0.879	0.942	0.460	0.493						
			50	24						22.00	21.60	0.839	0.920	0.439	0.481						
	26590	1905.0	100	0						22.00	21.60	0.862	0.945	0.449	0.492						
			50	24						22.00	21.60	0.864	0.947	0.452	0.496						
Right Tilt	26140	1860.0	1	49						22.00	21.70	0.828	0.887	0.374	0.401						
			50	24						22.00	21.60	0.780	0.855	0.353	0.387						
	26365	1882.5	1	49						22.00	21.70	0.787	0.843	0.367	0.393						
			50	24						22.00	21.60	0.747	0.819	0.349	0.383						
	26590	1905.0	100	0						22.00	21.60	0.777	0.852	0.353	0.387						
			1	49						22.00	21.70	0.807	0.865	0.370	0.396						
Body & Hotspot	QPSK	Mode B	5	Rear		26140	1860.0	1	49	19.25	19.20	0.702	0.710	0.315	0.319						
								50	24	19.25	19.15	0.709	0.726	0.315	0.322						
						26365	1882.5	1	49	19.25	19.20	0.824	0.834	0.377	0.381	77					
								50	24	19.25	19.00	0.755	0.800	0.346	0.367						
				26590		1905.0	100	0	19.25	18.93	0.758	0.816	0.346	0.372							
							1	49	19.25	19.10	0.698	0.723	0.310	0.321							
				Front		26365	1882.5	50	24	19.25	19.11	0.711	0.734	0.315	0.325						
								1	49	19.25	19.20	0.284	0.287	0.146	0.148						
Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	50	24	19.25	19.00	0.317	0.336	0.160	0.169							
							1	49	19.25	19.20	0.227	0.230	0.094	0.095							
				Edge 2	26365	1882.5	1	49	19.25	19.20	0.022	0.022	0.011	0.011							
							50	24	19.25	19.00	0.022	0.023	0.011	0.012							
				Edge 4	26365	1882.5	1	49	19.25	19.20	0.294	0.297	0.149	0.151							
							50	24	19.25	19.00	0.288	0.305	0.145	0.154							

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	25.00	25.00	0.603	0.603	0.372	0.372	78
								50	24	24.00	24.00	0.479	0.479	0.297	0.297	
					Left Tilt	26365	1882.5	1	49	25.00	25.00	0.282	0.282	0.163	0.163	
								50	24	24.00	24.00	0.222	0.222	0.127	0.127	
					Right Touch	26365	1882.5	1	49	25.00	25.00	0.220	0.220	0.139	0.139	
								50	24	24.00	24.00	0.161	0.161	0.103	0.103	
					Right Tilt	26365	1882.5	1	49	25.00	25.00	0.305	0.305	0.170	0.170	
								50	24	24.00	24.00	0.244	0.244	0.135	0.135	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	20.50	20.50	0.987	0.987	0.519	0.519	
								50	24	20.50	20.35	0.939	0.972	0.493	0.510	
						26365	1882.5	1	49	20.50	20.40	0.965	0.987	0.504	0.516	
								50	24	20.50	20.50	0.994	0.994	0.518	0.518	79
					Front	26590	1905.0	1	49	20.50	20.38	0.964	0.991	0.504	0.518	
								50	0	20.50	20.45	0.980	0.991	0.510	0.516	
						26365	1882.5	1	49	20.50	20.48	0.981	0.986	0.510	0.512	
								50	24	20.50	20.48	0.981	0.986	0.510	0.512	
					Edge 3	26365	1882.5	1	49	20.50	20.40	0.600	0.614	0.327	0.335	
								50	24	20.50	20.50	0.597	0.597	0.323	0.323	
	Hotspot	QPSK	Mode B	5	Edge 4	26365	1882.5	1	49	20.50	20.40	0.266	0.272	0.146	0.149	
								50	24	20.50	20.50	0.263	0.263	0.145	0.145	
					Edge 4	26365	1882.5	1	49	20.50	20.40	0.594	0.608	0.307	0.314	
								50	24	20.50	20.50	0.586	0.586	0.303	0.303	
Antenna	RF Exposure Conditions	Mode	Power 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.
ANT4	Head	QPSK	Mode A	0	Left Touch	26140	1860.0	1	49	17.75	17.55	0.731	0.765	0.368	0.385	
								50	24	17.75	17.52	0.737	0.777	0.371	0.391	
						26365	1882.5	1	49	17.75	17.67	0.942	0.960	0.458	0.467	
								50	24	17.75	17.61	0.957	0.988	0.460	0.475	
					Left Tilt	26590	1905.0	1	49	17.75	17.70	0.985	0.996	0.472	0.477	80
								50	0	17.75	17.33	0.846	0.932	0.422	0.465	
						26365	1882.5	1	49	17.75	17.35	0.854	0.936	0.423	0.464	
								50	24	17.75	17.35	0.854	0.936	0.423	0.464	
					Right Touch	26365	1882.5	1	49	17.75	17.67	0.593	0.604	0.290	0.295	
								50	24	17.75	17.61	0.587	0.606	0.287	0.296	
					Right Tilt	26365	1882.5	1	49	17.75	17.67	0.221	0.225	0.134	0.136	
								50	24	17.75	17.61	0.218	0.225	0.133	0.137	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	17.75	17.67	0.191	0.195	0.103	0.105	
								50	24	17.75	17.61	0.188	0.194	0.102	0.105	
					Front	26365	1882.5	1	49	19.00	18.90	0.571	0.584	0.283	0.290	
								50	24	19.00	18.54	0.569	0.633	0.281	0.312	81
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	19.00	18.90	0.406	0.415	0.213	0.218	
								50	24	19.00	18.54	0.405	0.450	0.211	0.235	
					Edge 2	26140	1860.0	1	49	19.00	18.90	0.242	0.248	0.118	0.121	
								50	24	19.00	18.54	0.244	0.271	0.119	0.132	
						26365	1882.5	1	49	19.00	18.90	0.653	0.668	0.309	0.316	
								50	24	19.00	18.93	0.654	0.665	0.310	0.315	
					Edge 2	26365	1882.5	1	49	19.00	18.90	0.803	0.822	0.373	0.382	
								50	24	19.00	18.54	0.749	0.833	0.333	0.370	82
						26590	1905.0	1	49	19.00	18.97	0.751	0.756	0.357	0.359	
								50	0	19.00	18.83	0.742	0.772	0.351	0.365	
						26365	1882.5	1	49	19.00	18.83	0.742	0.772	0.351	0.365	
								50	24	19.00	18.94	0.732	0.742	0.344	0.349	

10.14. LTE Band 26 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	25.70	25.30	0.165	0.181	0.126	0.138	83
								25	12	24.70	24.30	0.129	0.141	0.098	0.107	
					Left Tilt	26865	831.5	1	25	25.70	25.30	0.100	0.110	0.077	0.084	
								25	12	24.70	24.30	0.076	0.083	0.059	0.065	
					Right Touch	26865	831.5	1	25	25.70	25.30	0.215	0.236	0.160	0.175	
								25	12	24.70	24.30	0.173	0.190	0.128	0.140	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	26865	831.5	1	25	25.70	25.30	0.115	0.126	0.089	0.097	84
								25	12	24.70	24.30	0.085	0.093	0.066	0.072	
					Rear	26865	831.5	1	25	25.70	25.30	0.403	0.442	0.257	0.282	
								25	12	24.70	24.30	0.331	0.363	0.210	0.230	
					Front	26865	831.5	1	25	25.70	25.30	0.234	0.257	0.151	0.166	
								25	12	24.70	24.30	0.185	0.203	0.120	0.132	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	25	25.70	25.30	0.367	0.402	0.236	0.259	
								25	12	24.70	24.30	0.291	0.319	0.188	0.206	
					Edge 3	26865	831.5	1	25	25.70	25.30	0.250	0.274	0.123	0.135	
								25	12	24.70	24.30	0.178	0.195	0.089	0.098	
					Edge 4	26865	831.5	1	25	25.70	25.30	0.131	0.144	0.083	0.091	
								25	12	24.70	24.30	0.105	0.115	0.068	0.074	
ANT2	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	24.50	24.40	0.354	0.362	0.199	0.204	85
								25	12	23.50	23.35	0.280	0.290	0.158	0.164	
					Left Tilt	26865	831.5	1	25	24.50	24.40	0.220	0.225	0.118	0.121	
								25	12	23.50	23.35	0.179	0.185	0.095	0.098	
					Right Touch	26865	831.5	1	25	24.50	24.40	0.347	0.355	0.199	0.204	
								25	12	23.50	23.35	0.274	0.284	0.157	0.163	
					Right Tilt	26865	831.5	1	25	24.50	24.40	0.381	0.390	0.187	0.191	
								25	12	23.50	23.35	0.304	0.315	0.150	0.155	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	24.50	24.40	0.474	0.485	0.250	0.256	86
								25	12	23.50	23.35	0.382	0.395	0.201	0.208	
					Front	26865	831.5	1	25	24.50	24.40	0.232	0.237	0.124	0.127	
								25	12	23.50	23.35	0.184	0.190	0.098	0.101	
					Edge 1	26865	831.5	1	25	24.50	24.40	0.273	0.279	0.127	0.130	
								25	12	23.50	23.35	0.202	0.209	0.094	0.097	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	25	24.50	24.40	0.058	0.059	0.037	0.038	
								25	12	23.50	23.35	0.046	0.048	0.029	0.030	
					Edge 4	26865	831.5	1	25	24.50	24.40	0.255	0.261	0.163	0.167	
								25	12	23.50	23.35	0.199	0.206	0.127	0.131	

10.15. LTE Band 30 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	25.70	25.24	0.138	0.153	0.078	0.087	87
								25	12	24.70	24.50	0.126	0.132	0.073	0.076	
					Left Tilt	27710	2310.0	1	25	25.70	25.24	0.149	0.166	0.072	0.080	
								25	12	24.70	24.50	0.130	0.136	0.063	0.066	
					Right Touch	27710	2310.0	1	25	25.70	25.24	0.230	0.256	0.128	0.142	
								25	12	24.70	24.50	0.223	0.234	0.124	0.130	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	20.25	20.18	0.880	0.894	0.391	0.397	88
								25	12	20.25	20.10	0.862	0.892	0.384	0.397	
								50	0	20.25	20.03	0.885	0.931	0.402	0.423	
					Front	27710	2310.0	1	25	20.25	20.18	0.645	0.655	0.308	0.313	
								25	12	20.25	20.10	0.640	0.662	0.314	0.325	
								50	0	20.25	20.03	0.926	0.974	0.393	0.413	
					Edge 2	27710	2310.0	1	25	20.25	20.18	0.931	0.946	0.395	0.401	
								25	12	20.25	20.10	0.917	0.949	0.389	0.403	
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	1	25	20.25	20.18	0.229	0.233	0.099	0.101	89
								25	12	20.25	20.10	0.228	0.236	0.098	0.101	
					Edge 4	27710	2310.0	1	25	20.25	20.18	0.077	0.079	0.038	0.038	
								25	12	20.25	20.10	0.077	0.080	0.037	0.039	
					Edge 1	27710	2310.0	1	25	20.25	20.18	0.931	0.946	0.395	0.401	
								25	12	20.25	20.10	0.917	0.949	0.389	0.403	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	21.25	21.20	0.498	0.504	0.217	0.220	90
								25	12	21.25	21.20	0.461	0.466	0.200	0.202	
					Left Tilt	27710	2310.0	1	25	21.25	21.20	0.780	0.789	0.323	0.327	
								25	12	21.25	21.20	0.725	0.733	0.301	0.304	
					Right Touch	27710	2310.0	1	25	21.25	21.20	0.969	0.980	0.428	0.433	
								25	12	21.25	21.20	0.895	0.905	0.412	0.417	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	50	0	21.25	21.20	0.865	0.875	0.393	0.398	91
								1	25	21.25	21.20	0.882	0.892	0.354	0.358	
								25	12	21.25	21.20	0.807	0.816	0.324	0.328	
					Front	27710	2310.0	1	25	20.00	19.76	0.802	0.848	0.388	0.410	
								25	12	20.00	19.76	0.784	0.829	0.377	0.398	
								50	0	20.00	19.76	0.723	0.764	0.360	0.380	
					Edge 1	27710	2310.0	1	25	20.00	19.76	0.341	0.360	0.174	0.184	
								25	12	20.00	19.76	0.329	0.348	0.167	0.176	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	25	20.00	19.76	0.550	0.581	0.230	0.243	92
								25	12	20.00	19.76	0.553	0.584	0.227	0.240	
					Edge 3	27710	2310.0	1	25	20.00	19.76	0.016	0.017	0.006	0.007	
								25	12	20.00	19.76	0.018	0.019	0.005	0.005	
					Edge 4	27710	2310.0	1	25	20.00	19.76	0.518	0.547	0.243	0.257	
								25	12	20.00	19.76	0.510	0.539	0.241	0.255	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	24.50	24.38	0.263	0.270	0.147	0.151	92
								25	12	23.50	23.37	0.214	0.221	0.119	0.123	
					Left Tilt	27710	2310.0	1	25	24.50	24.38	0.095	0.098	0.048	0.049	
								25	12	23.50	23.37	0.077	0.079	0.038	0.039	
					Right Touch	27710	2310.0	1	25	24.50	24.38	0.162	0.167	0.094	0.096	
								25	12	23.50	23.37	0.115	0.118	0.066	0.068	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	24.50	24.38	0.152	0.156	0.079	0.081	
								25	12	23.50	23.37	0.119	0.123	0.062	0.064	
					Front	27710	2310.0	1	25	22.50	22.30	0.806	0.844	0.420	0.440	93
								25	12	22.50	22.10	0.715	0.784	0.377	0.413	
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	1	25	22.50	22.30	0.610	0.639	0.305	0.319	
								25	12	22.50	22.10	0.493	0.541	0.245	0.269	
ANT4	Head	QPSK	Mode A	0	Edge 4	27710	2310.0	1	25	22.50	22.30	0.096	0.101	0.047	0.050	
								25	12	22.50	22.10	0.077	0.084	0.039	0.042	
								1	25	22.50	22.30	0.884	0.926	0.431	0.451	94
								25	12	22.50	22.10	0.713	0.782	0.346	0.379	
	Body & Hotspot	QPSK	Mode B	5	Left Touch	27710	2310.0	1	25	17.75	17.46	0.862	0.922	0.406	0.434	95
								25	12	17.75	17.45	0.847	0.908	0.397	0.425	
					Left Tilt	27710	2310.0	50	0	17.75	17.51	0.805	0.851	0.380	0.402	
								1	25	17.75	17.46	0.465	0.497	0.237	0.253	
					Right Touch	27710	2310.0	25	12	17.75	17.45	0.461	0.494	0.234	0.251	
								1	25	17.75	17.46	0.208	0.222	0.117	0.125	
ANT4	Body & Hotspot	QPSK	Mode B	5	Right Tilt	27710	2310.0	25	12	17.75	17.45	0.213	0.228	0.119	0.128	
								1	25	17.75	17.46	0.121	0.129	0.069	0.073	
					Rear	27710	2310.0	25	12	17.75	17.45	0.127	0.136	0.067	0.072	
								1	25	19.00	18.94	0.837	0.849	0.409	0.415	96
					Front	27710	2310.0	25	12	19.00	18.80	0.765	0.801	0.365	0.382	
								50	0	19.00	18.88	0.768	0.790	0.368	0.378	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	25	19.00	18.80	0.616	0.625	0.310	0.314	
								25	12	19.00	18.80	0.586	0.614	0.296	0.310	
					Edge 2	27710	2310.0	1	25	19.00	18.94	0.244	0.247	0.087	0.088	
								25	12	19.00	18.80	0.155	0.162	0.075	0.078	
								1	25	19.00	18.94	0.580	0.588	0.288	0.292	
								25	12	19.00	18.80	0.480	0.503	0.244	0.255	

10.16. LTE Band 41 Power Class 3 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	49	25.70	25.30	0.104	0.114	0.058	0.064	
								50	24	24.70	24.34	0.058	0.063	0.028	0.030	
					Left Tilt	40620	2593.0	1	49	25.70	25.30	0.067	0.073	0.033	0.036	
								50	24	24.70	24.34	0.067	0.073	0.034	0.037	
					Right Touch	40620	2593.0	1	49	25.70	25.30	0.196	0.215	0.127	0.139	97
								50	24	24.70	24.34	0.122	0.133	0.063	0.068	
					Right Tilt	40620	2593.0	1	49	25.70	25.30	0.060	0.066	0.032	0.035	
								50	24	24.70	24.34	0.057	0.062	0.029	0.032	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	23.25	23.25	0.627	0.627	0.304	0.304	98
								50	24	23.25	23.23	0.494	0.496	0.213	0.214	
					Front	40620	2593.0	1	49	23.25	23.25	0.476	0.476	0.181	0.181	
								50	24	23.25	23.23	0.413	0.415	0.158	0.159	
	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	49	23.25	23.20	0.982	0.993	0.394	0.399	
								50	24	23.25	23.25	0.996	0.996	0.396	0.396	99
						40185	2549.5	1	49	23.25	23.23	0.919	0.923	0.363	0.365	
								50	24	23.25	23.20	0.928	0.939	0.365	0.369	
						40620	2593.0	1	49	23.25	23.25	0.929	0.929	0.360	0.360	
								50	24	23.25	23.23	0.942	0.946	0.364	0.366	
					Edge 3	41055	2636.5	100	0	23.25	23.22	0.927	0.933	0.359	0.361	
								1	49	23.25	23.07	0.927	0.966	0.362	0.377	
						41490	2680.0	50	24	23.25	23.12	0.926	0.954	0.361	0.372	
								1	49	23.25	23.19	0.823	0.834	0.313	0.317	
						40620	2593.0	50	24	23.25	23.09	0.824	0.855	0.312	0.324	
								1	49	23.25	23.25	0.534	0.534	0.196	0.196	
					Edge 4	40620	2593.0	50	24	23.25	23.23	0.526	0.528	0.192	0.193	
								1	49	23.25	23.25	0.115	0.115	0.055	0.055	
						40620	2593.0	50	24	23.25	23.25	0.112	0.113	0.054	0.054	
								50	24	23.25	23.23	0.112	0.113	0.054	0.054	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT2	Head	QPSK	Mode A	0	Left Tilt	39750	2506.0	1	49	21.50	21.49	0.714	0.716	0.312	0.313	
								50	24	21.50	21.46	0.688	0.694	0.301	0.304	
						40185	2549.5	1	49	21.50	21.50	0.753	0.753	0.325	0.325	
								50	24	21.50	21.46	0.693	0.699	0.305	0.308	
						40620	2593.0	1	49	21.50	21.40	0.790	0.808	0.300	0.307	
								50	24	21.50	21.48	0.804	0.808	0.307	0.308	
								100	0	21.50	21.45	0.733	0.741	0.317	0.321	
						41055	2636.5	1	49	21.50	21.45	0.786	0.795	0.340	0.344	
								50	24	21.50	21.49	0.749	0.751	0.327	0.328	
						41490	2680.0	1	49	21.50	21.44	0.803	0.814	0.346	0.351	
								50	24	21.50	21.50	0.770	0.770	0.327	0.327	
					Left Tilt	39750	2506.0	1	49	21.50	21.49	0.892	0.894	0.342	0.343	
								50	24	21.50	21.46	0.855	0.863	0.324	0.327	
						40185	2549.5	1	49	21.50	21.50	0.921	0.921	0.343	0.343	
								50	24	21.50	21.46	0.850	0.858	0.317	0.320	
								100	0	21.50	21.45	0.890	0.900	0.364	0.368	
						41055	2636.5	1	49	21.50	21.45	0.984	0.995	0.360	0.364	100
								50	24	21.50	21.49	0.936	0.938	0.341	0.342	
						41490	2680.0	1	49	21.50	21.44	0.900	0.913	0.324	0.329	
								50	24	21.50	21.50	0.898	0.898	0.327	0.327	
					Right Tilt	40620	2593.0	1	49	21.50	21.40	0.701	0.717	0.269	0.275	
								50	24	21.50	21.48	0.674	0.677	0.257	0.258	
					Right Tilt	40620	2593.0	1	49	21.50	21.40	0.708	0.724	0.260	0.266	
								50	24	21.50	21.48	0.778	0.782	0.290	0.291	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	23.25	23.25	0.868	0.868	0.378	0.378	
						40185	2549.5	1	49	23.25	23.23	0.893	0.897	0.398	0.400	101
						40620	2593.0	1	49	23.25	23.20	0.882	0.892	0.379	0.383	
								50	24	22.25	22.21	0.703	0.710	0.305	0.308	
						41055	2636.5	1	49	23.25	23.21	0.863	0.871	0.373	0.376	
						41490	2680.0	1	49	23.25	23.19	0.717	0.727	0.332	0.337	
					Front	40620	2593.0	1	49	23.25	23.20	0.379	0.383	0.153	0.155	
								50	24	22.25	22.21	0.307	0.310	0.126	0.127	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	23.25	23.20	0.707	0.715	0.272	0.275	
								50	24	22.25	22.21	0.584	0.589	0.184	0.186	
					Edge 2	40620	2593.0	1	49	23.25	23.20	0.042	0.042	0.020	0.020	
								50	24	22.25	22.21	0.045	0.045	0.022	0.022	
					Edge 4	40620	2593.0	1	49	23.25	23.20	0.610	0.617	0.248	0.251	
								50	24	22.25	22.21	0.423	0.427	0.180	0.182	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	49	25.50	25.49	0.318	0.319	0.178	0.178	102
								50	24	24.50	24.21	0.319	0.341	0.178	0.190	
					Left Tilt	40620	2593.0	1	49	25.50	25.49	0.093	0.093	0.048	0.049	
								50	24	24.50	24.21	0.089	0.095	0.047	0.051	
					Right Touch	40620	2593.0	1	49	25.50	25.49	0.256	0.257	0.127	0.127	
								50	24	24.50	24.21	0.179	0.191	0.099	0.106	
					Right Tilt	40620	2593.0	1	49	25.50	25.49	0.166	0.166	0.086	0.086	
								50	24	24.50	24.21	0.133	0.142	0.069	0.074	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	22.25	21.80	0.850	0.943	0.408	0.453	
								50	24	22.25	21.90	0.856	0.928	0.413	0.448	
						40185	2549.5	1	49	22.25	21.84	0.862	0.947	0.414	0.455	103
								50	24	22.25	21.84	0.865	0.951	0.415	0.456	
						40620	2593.0	1	49	22.25	21.90	0.738	0.800	0.347	0.376	
								50	24	22.25	21.70	0.709	0.805	0.336	0.381	
								100	0	22.25	21.70	0.726	0.824	0.341	0.387	
						41055	2636.5	1	49	22.25	21.80	0.580	0.643	0.260	0.288	
								50	24	22.25	21.80	0.589	0.653	0.264	0.293	
					41490	2680.0		1	49	22.25	21.80	0.419	0.465	0.185	0.205	
								50	24	22.25	21.80	0.423	0.469	0.189	0.210	
					Front	40620	2593.0	1	49	22.25	21.90	0.554	0.600	0.255	0.276	
								50	24	22.25	21.70	0.551	0.625	0.253	0.287	
	Hotspot	QPSK	Mode B	5	Edge 3	40620	2593.0	1	49	22.25	21.90	0.098	0.106	0.049	0.053	
								50	24	22.25	21.70	0.096	0.109	0.048	0.054	
					Edge 4	40620	2593.0	1	49	22.25	21.90	0.298	0.323	0.127	0.138	
								50	24	22.25	21.70	0.295	0.335	0.125	0.142	
Antenna	RF Exposure Conditions	Mode	Power 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.
ANT4	Head	QPSK	Mode A	0	Left Touch	39750	2506.0	1	49	18.75	18.45	0.679	0.728	0.324	0.347	
						40185	2549.5	1	49	18.75	18.34	0.645	0.709	0.299	0.329	
						40620	2593.0	1	49	18.75	18.50	0.832	0.881	0.384	0.407	
								50	24	18.75	18.50	0.748	0.792	0.342	0.362	
					41055	2636.5		1	49	18.75	18.45	0.746	0.799	0.327	0.350	
								1	49	18.75	18.40	0.908	0.984	0.387	0.419	
					41490	2680.0		1	49	18.75	18.50	0.519	0.550	0.237	0.251	
								1	49	18.75	18.50	0.521	0.552	0.237	0.251	
					Left Tilt	40620	2593.0	1	49	18.75	18.50	0.228	0.242	0.113	0.120	
								50	24	18.75	18.50	0.227	0.240	0.114	0.121	
					Right Touch	40620	2593.0	1	49	18.75	18.50	0.204	0.216	0.102	0.108	
								50	24	18.75	18.50	0.207	0.219	0.103	0.109	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	19.75	19.30	0.801	0.888	0.363	0.403	105
								50	24	19.75	19.75	0.894	0.894	0.413	0.413	
						40185	2549.5	1	49	19.75	19.68	0.781	0.794	0.348	0.354	
								50	24	19.75	19.63	0.756	0.777	0.339	0.348	
						40620	2593.0	1	49	19.75	19.71	0.805	0.812	0.373	0.376	
								50	24	19.75	19.60	0.783	0.811	0.343	0.355	
								100	0	19.75	19.70	0.780	0.789	0.341	0.345	
					41055	2636.5		1	49	19.75	19.60	0.819	0.848	0.370	0.383	
								50	24	19.75	19.74	0.816	0.818	0.356	0.357	
					41490	2680.0		1	49	19.75	19.73	0.890	0.894	0.390	0.392	
								50	24	19.75	19.75	0.857	0.857	0.372	0.372	
					Front	40620	2593.0	1	49	19.75	19.71	0.676	0.682	0.328	0.331	
								50	24	19.75	19.60	0.657	0.680	0.313	0.324	
ANT4	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	19.75	19.71	0.467	0.471	0.183	0.185	
								50	24	19.75	19.60	0.515	0.533	0.189	0.196	
					Edge 2	40620	2593.0	1	49	19.75	19.71	0.344	0.347	0.172	0.174	
								50	24	19.75	19.60	0.360	0.373	0.173	0.179	

LTE Band 41 Power Class 2 (20MHz Bandwidth)

According to Section 9.4, SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

LTE Band 41 Power Class 2 SAR Measured Results

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	49	28.70	28.20	0.125	0.140	0.064	0.072	
ANT3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	49	28.00	27.70	0.273	0.293	0.154	0.165	

From May 2017 TCB Workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination. According to the highest time averaged power for UL-DL configurations, configuration # 1 with duty cycle 43.3% is used for Power Class 2 SAR test.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg

Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)		
ANT1	Head	43.3%	28.70	320.99	0.140	63.3%	25.70	235.18	0.215	0.293	-52.29%
ANT3	Head	43.3%	28.00	273.20	0.293	63.3%	25.50	224.60	0.341	0.415	-29.36%

Conclusion:

SAR test for Power Class 2 is not required base on the reported SAR <1.4 W/kg and reported SAR vs. output power linearly scaled <10%.

UL CA 41C Power Class 3

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	40620	2593.0	1	99	40818	2612.8	1	0	25.00	24.87	0.119	0.123	0.094	0.096	
ANT 1	Body	QPSK	Mode B	5	Rear	40620	2593.0	1	99	40818	2612.8	1	0	23.25	23.25	0.597	0.597	0.275	0.275	
ANT 1	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	99	39948	2525.8	1	0	23.25	23.22	0.907	0.913	0.361	0.364	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	41055	2636.5	1	99	41253	2656.3	1	0	21.50	21.43	0.829	0.842	0.316	0.321	
ANT 2	Body	QPSK	Mode B	5	Rear	40185	2549.5	1	99	40383	2569.3	1	0	21.50	21.40	0.855	0.875	0.348	0.356	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	24.50	24.34	0.317	0.329	0.198	0.205	
ANT 3	Body	QPSK	Mode B	5	Rear	40185	2549.5	1	99	40383	2569.3	1	0	22.25	22.20	0.733	0.741	0.350	0.354	
ANT 4	Head	QPSK	Mode A	0	Left Touch	41490	2680.0	1	0	41292	2660.2	1	99	18.75	18.75	0.705	0.705	0.316	0.316	
ANT 4	Body	QPSK	Mode B	5	Rear	39750	2506.0	1	99	39948	2525.8	1	0	19.75	19.70	0.876	0.886	0.419	0.424	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

Additional SAR for UL CA PC2 is not required. Test reduction has been applied base on standalone SAR.

UL CA 41C Power Class 2

According to Section 9.5, SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

LTE Band CA 41C Power Class 2 SAR Measured Results

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	40620	2593	1	99	40818	2612.8	1	0	27.00	26.33	0.093	0.109	0.051	0.060	
ANT 2	Body	QPSK	Mode B	5	Rear	40185	2549.5	1	99	40383	2569.3	1	0	23.25	22.54	0.572	0.674	0.245	0.289	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40620	2593	1	99	40818	2612.8	1	0	26.50	25.77	0.205	0.243	0.118	0.140	

From May 2017 TCB Workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination. According to the highest time averaged power for UL-DL configurations, configuration # 1 with duty cycle 43.3% is used for Power Class 2 SAR test.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg

Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)		
ANT1	Head	43.3%	27.00	217.01	0.109	63.3%	25.00	200.17	0.123	0.133	-18.26%
ANT2	Body	43.3%	23.25	91.51	0.674	63.3%	21.50	89.41	0.875	0.896	-24.74%
ANT3	Head	43.3%	26.50	193.41	0.243	63.3%	24.50	178.40	0.329	0.357	-31.87%

Conclusion:

SAR test for Power Class 2 is not required base on the reported SAR <1.4 W/kg and reported SAR vs. output power linearly scaled <10%.

10.17. LTE Band 48 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT1	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	25.70	25.58	0.039	0.040	0.015	0.015	106
								50	24	24.70	24.35	0.033	0.036	0.012	0.013	
					Left Tilt	56207	3646.7	1	49	25.70	25.58	0.006	0.006	0.001	0.001	
								50	24	24.70	24.35	0.004	0.004	0.001	0.001	
					Right Touch	56207	3646.7	1	49	25.70	25.58	0.023	0.024	0.008	0.008	
								50	24	24.70	24.35	0.022	0.024	0.007	0.008	
					Right Tilt	56207	3646.7	1	49	25.70	25.58	0.008	0.009	0.003	0.003	
								50	24	24.70	24.35	0.007	0.008	0.002	0.002	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	49	25.70	25.58	0.426	0.438	0.146	0.150	107
								50	24	24.70	24.35	0.350	0.379	0.117	0.127	
					Front	56207	3646.7	1	49	25.70	25.58	0.107	0.110	0.040	0.041	
								50	24	24.70	24.35	0.085	0.092	0.032	0.034	
	Hotspot	QPSK	Mode B	5	Edge 2	56207	3646.7	1	49	25.70	25.58	0.537	0.552	0.206	0.212	108
								50	24	24.70	24.35	0.403	0.437	0.140	0.152	
					Edge 3	56207	3646.7	1	49	25.70	25.58	0.353	0.363	0.116	0.119	
								50	24	24.70	24.35	0.267	0.289	0.089	0.096	
					Edge 4	56207	3646.7	1	49	25.70	25.58	0.034	0.035	0.009	0.010	
								50	24	24.70	24.35	0.025	0.027	0.007	0.007	

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT6	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	22.50	22.45	0.172	0.174	0.054	0.055	
								50	24	21.50	21.25	0.134	0.142	0.040	0.043	
					Left Tilt	56207	3646.7	1	49	22.50	22.45	0.252	0.255	0.071	0.072	
								50	24	21.50	21.25	0.198	0.210	0.056	0.059	
					Right Touch	56207	3646.7	1	49	22.50	22.45	0.252	0.255	0.087	0.088	109
								50	24	21.50	21.25	0.199	0.211	0.067	0.071	
					Right Tilt	56207	3646.7	1	49	22.50	22.45	0.201	0.203	0.062	0.063	
								50	24	21.50	21.25	0.158	0.167	0.049	0.052	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	49	22.50	22.45	0.408	0.413	0.154	0.156	
								50	24	21.50	21.25	0.406	0.430	0.143	0.151	110
					Front	56207	3646.7	1	49	22.50	22.45	0.075	0.076	0.024	0.024	
								50	24	21.50	21.25	0.055	0.058	0.016	0.017	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	22.50	22.45	0.116	0.117	0.029	0.029	
								50	24	21.50	21.25	0.093	0.098	0.022	0.024	
					Edge 4	56207	3646.7	1	49	22.50	22.45	0.337	0.341	0.117	0.118	
								50	24	21.50	21.25	0.286	0.303	0.093	0.099	

Notes:

Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	25.50	25.45	0.029	0.029	0.009	0.009	
								50	24	24.50	24.35	0.014	0.015	0.005	0.005	
					Left Tilt	56207	3646.7	1	49	25.50	25.45	0.046	0.047	0.015	0.015	111
								50	24	24.50	24.35	0.033	0.034	0.010	0.010	
					Right Touch	56207	3646.7	1	49	25.50	25.45	0.037	0.038	0.009	0.009	
								50	24	24.50	24.35	0.031	0.032	0.007	0.008	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	56207	3646.7	1	49	25.50	25.45	0.024	0.024	0.007	0.008	
								50	24	24.50	24.35	0.018	0.019	0.006	0.006	
					Rear	56207	3646.7	1	49	25.50	25.45	0.754	0.763	0.269	0.272	112
								50	24	24.50	24.35	0.608	0.629	0.215	0.223	
					Front	56207	3646.7	1	49	25.50	25.45	0.244	0.247	0.098	0.099	
								50	24	24.50	24.35	0.201	0.208	0.077	0.079	
ANT4	Head	QPSK	Mode A	0	Edge 3	56207	3646.7	1	49	25.50	25.45	0.182	0.184	0.062	0.063	
								50	24	24.50	24.35	0.141	0.146	0.046	0.047	
					Edge 4	56207	3646.7	1	49	25.50	25.45	0.243	0.246	0.080	0.081	
								50	24	24.50	24.35	0.179	0.185	0.060	0.062	
	Body & Hotspot	QPSK	Mode B	5	Left Touch	56207	3646.7	1	49	22.50	22.50	0.634	0.634	0.252	0.252	113
								50	24	21.50	21.35	0.520	0.538	0.206	0.213	
					Left Tilt	56207	3646.7	1	49	22.50	22.50	0.468	0.468	0.179	0.179	
								50	24	21.50	21.35	0.374	0.387	0.142	0.147	
					Right Touch	56207	3646.7	1	49	22.50	22.50	0.189	0.189	0.078	0.078	
								50	24	21.50	21.35	0.149	0.154	0.061	0.063	
ANT4	Body & Hotspot	QPSK	Mode B	5	Right Tilt	56207	3646.7	1	49	22.50	22.50	0.178	0.178	0.074	0.074	
								50	24	21.50	21.35	0.145	0.150	0.059	0.061	
					Rear	56207	3646.7	1	49	22.50	22.50	0.356	0.356	0.141	0.141	114
								50	24	21.50	21.35	0.290	0.300	0.116	0.120	
					Front	56207	3646.7	1	49	22.50	22.50	0.385	0.385	0.148	0.148	
								50	24	21.50	21.35	0.286	0.296	0.112	0.116	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	22.50	22.50	0.088	0.088	0.037	0.037	
								50	24	21.50	21.35	0.054	0.056	0.020	0.021	
					Edge 2	56207	3646.7	1	49	22.50	22.50	0.792	0.792	0.281	0.281	115
								50	24	21.50	21.35	0.666	0.689	0.236	0.244	

Notes:

Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

10.18. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power 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						
ANT1	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	25.70	25.56	0.144	0.149	0.096	0.099						
								50	24	24.70	24.65	0.112	0.113	0.075	0.076						
					Left Tilt	132322	1745.0	1	49	25.70	25.56	0.115	0.119	0.073	0.075						
								50	24	24.70	24.65	0.092	0.093	0.058	0.059						
					Right Touch	132322	1745.0	1	49	25.70	25.56	0.231	0.239	0.153	0.158		116				
								50	24	24.70	24.65	0.180	0.182	0.119	0.120						
					Right Tilt	132322	1745.0	1	49	25.70	25.56	0.150	0.155	0.078	0.080						
								50	24	24.70	24.65	0.113	0.114	0.070	0.071						
					Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	17.50	17.25		0.396	0.419	0.205	0.217	117
												50	24	17.50	17.31		0.394	0.412	0.203	0.212	
	Front	132322	1745.0	1					49	17.50	17.25	0.298	0.316	0.148	0.157						
				50					24	17.50	17.31	0.293	0.306	0.148	0.155						
	Hotspot	QPSK	Mode B	5					Edge 2	132322	1745.0	1	49	17.50	17.25	0.094	0.099	0.053	0.056		
												50	24	17.50	17.31	0.098	0.103	0.055	0.057		
					Edge 3	132072	1720.0	1	49	17.50	17.33	0.919	0.956	0.427	0.444						
								50	24	17.50	17.38	0.924	0.950	0.429	0.441						
								1	49	17.50	17.25	0.909	0.963	0.426	0.451						
								50	24	17.50	17.31	0.925	0.966	0.431	0.450	118					
								100	0	17.50	17.29	0.872	0.915	0.412	0.432						
								1	49	17.50	17.35	0.888	0.919	0.419	0.434						
	Edge 4	132572	1770.0	50	24	17.50	17.29	0.900	0.945	0.424	0.445										
				1	49	17.50	17.25	0.017	0.018	0.008	0.008										
	50	24	17.50	17.31	0.016	0.017	0.008	0.009													
Antenna	RF Exposure Conditions	Mode	Power 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.					
ANT2	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	22.00	21.90	0.176	0.180	0.108	0.111						
								50	24	22.00	21.90	0.175	0.179	0.103	0.105						
					Left Tilt	132322	1745.0	1	49	22.00	21.90	0.215	0.220	0.114	0.117						
								50	24	22.00	21.90	0.215	0.220	0.111	0.114						
					Right Touch	132072	1720.0	1	49	22.00	21.90	0.806	0.825	0.422	0.432						
								50	24	22.00	21.75	0.806	0.854	0.422	0.447						
						132322	1745.0	1	49	22.00	21.90	0.855	0.875	0.450	0.460						
								50	24	22.00	21.90	0.859	0.879	0.453	0.464		119				
								100	0	22.00	21.80	0.837	0.876	0.441	0.462						
								1	49	22.00	21.81	0.803	0.839	0.425	0.444						
								50	24	22.00	21.79	0.799	0.839	0.419	0.440						
					Right Tilt	132322	1745.0	1	49	22.00	21.90	0.761	0.779	0.351	0.359						
								50	24	22.00	21.90	0.763	0.781	0.351	0.359						
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	19.50	19.00	0.770	0.864	0.354	0.397	120					
								50	24	19.50	19.00	0.768	0.862	0.354	0.397						
						132322	1745.0	1	49	19.50	19.10	0.785	0.861	0.352	0.386						
								50	24	19.50	19.00	0.772	0.866	0.333	0.374						
						132572	1770.0	100	0	19.50	19.25	0.843	0.893	0.386	0.409						
								1	49	19.50	19.20	0.752	0.806	0.345	0.370						
								50	24	19.50	19.30	0.753	0.788	0.346	0.362						
					Front	132322	1745.0	1	49	19.50	19.10	0.263	0.288	0.132	0.145						
								50	24	19.50	19.00	0.261	0.293	0.131	0.147						
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	19.50	19.10	0.270	0.296	0.122	0.134						
								50	24	19.50	19.00	0.271	0.304	0.121	0.136						
					Edge 2	132322	1745.0	1	49	19.50	19.10	0.009	0.009	0.003	0.003						
								50	24	19.50	19.00	0.006	0.007	0.003	0.003						
					Edge 4	132322	1745.0	1	49	19.50	19.10	0.220	0.241	0.117	0.128						
								50	24	19.50	19.00	0.223	0.250	0.114	0.128						

Antenna	RF Exposure Conditions	Mode	Power 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	
ANT3	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	25.00	24.75	0.398	0.422	0.262	0.278	121
								50	24	24.00	23.80	0.316	0.331	0.209	0.219	
					Left Tilt	132322	1745.0	1	49	25.00	24.75	0.275	0.291	0.173	0.183	
								50	24	24.00	23.80	0.206	0.216	0.130	0.136	
					Right Touch	132322	1745.0	1	49	25.00	24.75	0.289	0.306	0.182	0.193	
								50	24	24.00	23.80	0.266	0.279	0.168	0.176	
					Right Tilt	132322	1745.0	1	49	25.00	24.75	0.262	0.278	0.153	0.162	
								50	24	24.00	23.80	0.212	0.222	0.123	0.129	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	21.00	20.85	0.945	0.978	0.515	0.533	
								50	24	21.00	20.75	0.930	0.985	0.507	0.537	
						132322	1745.0	1	49	21.00	20.81	0.942	0.984	0.519	0.542	
								50	24	21.00	20.85	0.950	0.983	0.521	0.539	
						132572	1770.0	100	0	21.00	20.95	0.973	0.984	0.529	0.535	
								1	49	21.00	21.00	0.985	0.985	0.537	0.537	
					Front	132322	1745.0	50	24	21.00	21.00	0.993	0.993	0.541	0.541	122
								1	49	21.00	20.81	0.256	0.267	0.152	0.159	
						132322	1745.0	50	24	21.00	20.85	0.258	0.267	0.153	0.158	
								1	49	21.00	20.81	0.088	0.092	0.045	0.047	
	Hotspot	QPSK	Mode B	5	Edge 3	132322	1745.0	50	24	21.00	20.85	0.141	0.146	0.062	0.064	
								1	49	21.00	20.81	0.434	0.453	0.225	0.235	
					Edge 4	132322	1745.0	50	24	21.00	20.85	0.441	0.456	0.231	0.239	
								1	49	21.00	20.81	0.434	0.453	0.225	0.235	
ANT4	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	21.25	21.00	0.644	0.682	0.344	0.364	
						132322	1745.0	1	49	21.25	20.90	0.742	0.804	0.393	0.426	
								50	24	21.25	20.75	0.656	0.736	0.313	0.351	
						132572	1770.0	1	49	21.25	21.15	0.931	0.953	0.477	0.488	123
					Left Tilt	132322	1745.0	1	49	21.25	20.90	0.461	0.500	0.153	0.166	
								50	24	21.25	20.75	0.363	0.407	0.121	0.136	
					Right Touch	132322	1745.0	1	49	21.25	20.90	0.169	0.183	0.078	0.085	
								50	24	21.25	20.75	0.152	0.171	0.072	0.081	
					Right Tilt	132322	1745.0	1	49	21.25	20.90	0.125	0.135	0.013	0.014	
								50	24	21.25	20.75	0.173	0.194	0.058	0.065	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	21.50	21.45	0.420	0.425	0.209	0.211	124
								50	24	21.50	21.20	0.351	0.376	0.177	0.190	
					Front	132322	1745.0	1	49	21.50	21.45	0.296	0.299	0.153	0.155	
								50	24	21.50	21.20	0.248	0.266	0.129	0.138	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	21.50	21.45	0.363	0.367	0.179	0.181	
								50	24	21.50	21.20	0.331	0.355	0.159	0.170	
						132072	1720.0	1	49	21.50	21.40	0.635	0.650	0.297	0.304	
								50	24	21.50	21.45	0.664	0.672	0.305	0.309	
					Edge 2	132322	1745.0	1	49	21.50	21.45	0.865	0.875	0.404	0.409	125
								50	24	21.50	21.20	0.764	0.819	0.350	0.375	
						132572	1770.0	100	0	21.50	21.20	0.765	0.820	0.351	0.376	
								1	49	21.50	21.40	0.830	0.849	0.395	0.404	
								50	24	21.50	21.30	0.756	0.792	0.352	0.369	

10.19. Wi-Fi (DTS Band)

When the 802.11b reported SAR of the highest measured maximum output power channel is ≤ 0.8 W/kg, no further SAR testing is required. If SAR is > 0.8 W/kg and ≤ 1.2 W/kg, SAR is required for the next highest measured output power channel. Finally, if SAR is > 1.2 W/kg, SAR is required for the third channel.

SAR testing is not required for OFDM mode(s) when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

ANT3 Power Mode A the P_{Cell_ON} is same as P_{Cell_OFF}

Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	0.378	100.0%	21.50	21.50	0.295	0.295	0.165	0.165	126
						Left Tilt	6	2437	0.123	100.0%	21.50	21.50					
						Right Touch	6	2437	0.240	100.0%	21.50	21.50					
						Right Tilt	6	2437	0.185	100.0%	21.50	21.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.860	100.0%	21.50	21.50	0.996	0.996	0.495	0.495	127
							11	2462	1.51	100.0%	21.50	21.50	0.878	0.878	0.427	0.427	
						Front	6	2437	1.260	100.0%	21.50	21.50	0.753	0.753	0.391	0.391	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.181	100.0%	21.50	21.50					
						Edge 4	6	2437	1.67	100.0%	21.50	21.50	1.030	1.030	0.463	0.463	128
							11	2462	1.59	100.0%	21.50	21.50	0.961	0.961	0.422	0.422	
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Cell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	1.640	100.0%	18.25	18.25	1.110	1.110	1.110	1.110	129
							11	2462	1.380	100.0%	18.25	18.25	1.050	1.050	1.050	1.050	
						Left Tilt	6	2437	1.890	100.0%	18.25	18.25	0.913	0.913	0.356	0.356	
							11	2462	1.060	100.0%	18.25	18.25	0.787	0.787	0.286	0.286	
						Right Touch	6	2437	0.664	100.0%	18.25	18.25	0.413	0.413	0.218	0.218	
						Right Tilt	6	2437	0.453	100.0%	18.25	18.25					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.820	100.0%	19.25	19.25	1.120	1.120	0.522	0.522	130
							11	2462	1.590	100.0%	19.25	19.25	1.070	1.070	0.478	0.478	
						Front	6	2437	1.020	100.0%	19.25	19.25	0.615	0.615	0.294	0.294	
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.818	100.0%	19.25	19.25					
						Edge 2	6	2437	0.824	100.0%	19.25	19.25					
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell ON	Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.731	100.0%	17.50	17.50	0.447	0.447	0.206	0.206	131
						Front	6	2437	0.437	100.0%	17.50	17.50					
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.0716	100.0%	17.50	17.50					
						Edge 4	6	2437	0.619	100.0%	17.50	17.50	0.425	0.425	0.187	0.187	
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Cell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.54	100.0%	14.00	14.00	0.406	0.406	0.143	0.143	132
						Left Tilt	6	2437	0.418	100.0%	14.00	14.00	0.300	0.300	0.113	0.113	
						Right Touch	6	2437	0.156	100.0%	14.00	14.00					
						Right Tilt	6	2437	0.204	100.0%	14.00	14.00					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.894	100.0%	16.00	16.00	0.490	0.490	0.224	0.224	133
						Front	6	2437	0.891	100.0%	16.00	16.00	0.296	0.296	0.093	0.093	
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.447	100.0%	16.00	16.00					
						Edge 2	6	2437	0.778	100.0%	16.00	16.00					

10.20. Wi-Fi (U-NII Band)

Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.136	97.3%	21.50	21.50	0.063	0.065	0.019	0.020	134
							Left Tilt	54	5270	0.0485	97.3%	21.50	21.50					
							Right Touch	54	5270	0.0889	97.3%	21.50	21.50					
							Right Tilt	54	5270	0.0496	97.3%	21.50	21.50					
		U-NII-1	Body & Airplay	802.11n HT40	Mode B	5	Rear	38	5190	1.350	97.3%	17.50	17.50	0.619	0.636	0.207	0.213	135
								46	5230	2.300	97.3%	20.50	20.50	1.120	1.151	0.382	0.393	
							Front	46	5230	0.164	97.3%	20.50	20.50					
							Edge 3	46	5230	0.878	97.3%	20.50	20.50	0.407	0.418	0.151	0.155	
ANT5	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.130	95.6%	21.50	21.50					
							Left Tilt	122	5610	0.069	95.6%	21.50	21.50					
							Right Touch	122	5610	0.139	95.6%	21.50	21.50					
							Right Tilt	122	5610	0.148	95.6%	21.50	21.50	0.056	0.059	0.011	0.012	136
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	2.100	95.6%	17.75	17.75	1.100	1.150	0.389	0.407	137
								138	5690	1.650	95.6%	17.75	17.75	0.883	0.923	0.303	0.317	
							Front	122	5610	0.124	95.6%	17.75	17.75					
							Edge 3	122	5610	0.779	95.6%	17.75	17.75	0.358	0.374	0.120	0.125	
ANT5	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.042	95.6%	21.50	21.50					
							Left Tilt	155	5775	0.046	95.6%	21.50	21.50					
							Right Touch	155	5775	0.042	95.6%	21.50	21.50					
							Right Tilt	155	5775	0.090	95.6%	21.50	21.50	0.030	0.032	0.008	0.009	138
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	2.800	95.6%	17.75	17.75	1.120	1.171	0.371	0.388	139
							Front	155	5775	0.070	95.6%	17.75	17.75					
							Edge 3	155	5775	0.736	95.6%	17.75	17.75	0.307	0.321	0.105	0.110	
							Edge 4	155	5775	0.150	95.6%	17.75	17.75					
ANT6	Cell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.559	97.3%	21.50	21.50	0.307	0.315	0.094	0.097	
							Left Tilt	54	5270	0.555	97.3%	21.50	21.50					
							Right Touch	54	5270	1.970	97.3%	21.50	21.50	1.040	1.069	0.363	0.373	140
								62	5310	0.841	97.3%	17.50	17.50	0.399	0.410	0.142	0.146	
			Body & Airplay	802.11n (HT40)	Mode B	5	Right Tilt	54	5270	1.720	97.3%	21.50	21.50	0.996	1.024	0.301	0.309	
								62	5310	0.662	97.3%	17.50	17.50	0.310	0.319	0.100	0.102	
							Rear	54	5270	2.450	97.3%	17.75	17.75	1.100	1.130	0.302	0.310	141
								62	5310	2.240	97.3%	17.50	17.50	1.050	1.079	0.288	0.296	
ANT6	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Front	54	5270	0.229	97.3%	17.75	17.75					
							Edge 1	54	5270	0.359	97.3%	17.75	17.75					
							Edge 4	54	5270	0.905	97.3%	17.75	17.75	0.399	0.410	0.133	0.137	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.784	95.6%	20.00	20.00					
								122	5610	3.150	95.6%	20.00	20.00	1.050	1.098	0.338	0.353	
							Edge 4	138	5690	1.960	95.6%	20.00	20.00	1.110	1.161	0.360	0.376	144
							Front	122	5610	1.050	95.6%	20.00	20.00					
							Rear	122	5610	1.440	95.6%	20.00	20.00	0.742	0.776	0.204	0.213	143
ANT6	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.865	95.6%	21.50	21.50	0.497	0.520	0.138	0.144	
							Left Tilt	155	5775	1.010	95.6%	21.50	21.50	0.594	0.621	0.158	0.165	
							Right Touch	155	5775	2.780	95.6%	21.50	21.50	1.110	1.161	0.380	0.397	145
							Right Tilt	155	5775	2.480	95.6%	21.50	21.50	0.942	0.985	0.314	0.328	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.130	95.6%	20.50	20.50	0.548	0.573	0.155	0.162	
							Front	155	5775	0.582	95.6%	20.50	20.50					
							Edge 1	155	5775	0.847	95.6%	20.50	20.50					
							Edge 4	155	5775	2.230	95.6%	20.50	20.50	1.040	1.088	0.332	0.347	146

ANT5 Power Mode A the P_{Cell ON} is same as P_{Cell OFF}

Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell ON	U-NII-2A	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	2.23	95.6%	15.25	15.25	0.290	0.303	0.093	0.097	147
							Front	42	5210	0.0269	95.6%	15.25	15.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.198	95.6%	15.25	15.25					
							Edge 4	42	5210	0.0599	95.6%	15.25	15.25					
ANT5	Cell ON	U-NII-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.749	95.6%	12.50	12.50	0.319	0.334	0.101	0.106	148
							Front	122	5610	0.037	95.6%	12.50	12.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	122	5610	0.202	95.6%	12.50	12.50					
							Edge 4	122	5610	0.190	95.6%	12.50	12.50					
ANT5	Cell ON	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.730	95.6%	12.50	12.50	0.314	0.328	0.102	0.107	149
							Front	155	5775	0.044	95.6%	12.50	12.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.213	95.6%	12.50	12.50					
							Edge 4	155	5775	0.027	95.6%	12.50	12.50					
ANT6	Cell ON	U-NII-1	Head	802.11n HT 40	Mode A	0	Left Touch	46	5230	0.250	97.3%	18.50	18.50					
							Left Tilt	46	5230	0.258	97.3%	18.50	18.50					
							Right Touch	46	5230	0.602	97.3%	18.50	18.50	0.314	0.323	0.096	0.099	150
							Right Tilt	46	5230	0.609	97.3%	18.50	18.50	0.290	0.298	0.090	0.092	
		U-NII-2A	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	58	5290	0.971	95.6%	13.50	13.50	0.431	0.451	0.108	0.113	151
							Front	58	5290	0.105	95.6%	13.50	13.50					
							Edge 1	58	5290	0.151	95.6%	13.50	13.50					
							Edge 4	58	5290	0.327	95.6%	13.50	13.50	0.136	0.142	0.041	0.043	
ANT6	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.305	95.6%	15.75	15.75					
							Left Tilt	122	5610	0.37	95.6%	15.75	15.75					
							Right Touch	122	5610	0.811	95.6%	15.75	15.75	0.308	0.322	0.094	0.098	152
							Right Tilt	122	5610	0.589	95.6%	15.75	15.75					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.434	95.6%	15.75	15.75	0.262	0.274	0.068	0.071	153
							Front	122	5610	0.354	95.6%	15.75	15.75					
							Edge 1	122	5610	0.293	95.6%	15.75	15.75					
							Edge 4	122	5610	0.765	95.6%	15.75	15.75	0.421	0.440	0.130	0.136	154
ANT6	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.377	95.6%	16.50	16.50					
							Left Tilt	155	5775	0.415	95.6%	16.50	16.50					
							Right Touch	155	5775	0.635	95.6%	16.50	16.50	0.291	0.304	0.091	0.095	155
							Right Tilt	155	5775	0.617	95.6%	16.50	16.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.838	95.6%	16.25	16.25	0.224	0.234	0.057	0.060	156
							Front	155	5775	0.301	95.6%	16.25	16.25					
							Edge 1	155	5775	0.242	95.6%	16.25	16.25					
							Edge 4	155	5775	1.24	95.6%	16.25	16.25	0.398	0.416	0.128	0.134	157

10.21. Bluetooth

ANT3 Power Mode A the P_{high} is same as $P_{\text{standalone}}$

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
									Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3 P_{low}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	11.00	11.00	0.048	0.048	0.026	0.026	158
					Left Tilt	39	2441	100.0%	11.00	11.00	0.013	0.013	0.007	0.007	
					Right Touch	39	2441	100.0%	11.00	11.00	0.028	0.028	0.013	0.013	
					Right Tilt	39	2441	100.0%	11.00	11.00	0.024	0.024	0.010	0.010	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	11.00	11.00	0.075	0.075	0.036	0.036	159
					Front	39	2441	100.0%	11.00	11.00	0.049	0.049	0.024	0.024	
ANT3 P_{high}	Body & Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	11.00	11.00	0.010	0.010	0.004	0.004	
					Edge 4	39	2441	100.0%	11.00	11.00	0.091	0.091	0.038	0.038	160
					Rear	39	2441	100.0%	15.00	15.00	0.240	0.240	0.119	0.119	161
					Front	39	2441	100.0%	15.00	15.00	0.158	0.158	0.078	0.078	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	15.00	15.00	0.035	0.035	0.016	0.016	
					Edge 4	39	2441	100.0%	15.00	15.00	0.209	0.209	0.093	0.093	
ANT3 $P_{\text{standalone}}$	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	19.50	19.50	0.216	0.216	0.120	0.120	162
					Left Tilt	39	2441	100.0%	19.50	19.50	0.008	0.008	0.043	0.043	
					Right Touch	39	2441	100.0%	19.50	19.50	0.164	0.164	0.090	0.090	
					Right Tilt	39	2441	100.0%	19.50	19.50	0.136	0.136	0.068	0.068	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	18.50	18.50	0.442	0.442	0.223	0.223	163
					Front	39	2441	100.0%	18.50	18.50	0.286	0.286	0.143	0.143	
ANT4 P_{low}	Head	GFSK	Mode A	0	Edge 3	39	2441	100.0%	18.50	18.50	0.082	0.082	0.038	0.038	
					Edge 4	39	2441	100.0%	18.50	18.50	0.572	0.572	0.243	0.243	164
	Body & Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	8.50	8.50	0.079	0.079	0.032	0.032	
					Left Tilt	39	2441	100.0%	8.50	8.50	0.090	0.090	0.043	0.043	165
					Right Touch	39	2441	100.0%	8.50	8.50	0.020	0.020	0.007	0.007	
					Right Tilt	39	2441	100.0%	8.50	8.50	0.022	0.022	0.007	0.007	
ANT4 P_{high}	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	9.50	9.50	0.091	0.091	0.042	0.042	166
					Front	39	2441	100.0%	9.50	9.50	0.088	0.088	0.043	0.043	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	9.50	9.50	0.028	0.028	0.011	0.011	
					Edge 2	39	2441	100.0%	9.50	9.50	<0.01	<0.01	<0.01	<0.01	
ANT4 $P_{\text{standalone}}$	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	12.50	12.50	0.205	0.205	0.099	0.099	
					Left Tilt	39	2441	100.0%	12.50	12.50	0.230	0.230	0.111	0.111	167
					Right Touch	39	2441	100.0%	12.50	12.50	0.060	0.060	0.025	0.025	
					Right Tilt	39	2441	100.0%	12.50	12.50	0.052	0.052	0.020	0.020	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	13.50	13.50	0.233	0.233	0.102	0.102	168
					Front	39	2441	100.0%	13.50	13.50	0.174	0.174	0.090	0.090	
ANT4 P_{high}	Body & Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	13.50	13.50	0.174	0.174	0.090	0.090	
					Edge 2	39	2441	100.0%	13.50	13.50	0.194	0.194	0.086	0.086	
	Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	16.00	16.00	0.576	0.576	0.268	0.268	169
					Left Tilt	39	2441	100.0%	16.00	16.00	0.473	0.473	0.216	0.216	
	Body & Hotspot	GFSK	Mode B	5	Right Touch	39	2441	100.0%	16.00	16.00	0.159	0.159	0.082	0.082	
					Right Tilt	39	2441	100.0%	16.00	16.00	0.154	0.154	0.077	0.077	
ANT4 $P_{\text{standalone}}$	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	17.00	17.00	0.568	0.568	0.225	0.225	170
					Front	39	2441	100.0%	17.00	17.00	0.167	0.167	0.094	0.094	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	17.00	17.00	0.231	0.231	0.084	0.084	
					Edge 2	39	2441	100.0%	17.00	17.00	0.259	0.259	0.123	0.123	

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 when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg (~ 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 .

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
1700	LTE Band 66	Body & Hotspot	Rear	Yes	0.993	0.950	1.05
1900	CDMA BC1	Head	Right Touch	Yes	0.999	0.976	1.02
2300	LTE Band 30	Head	Right Touch	Yes	0.969	0.964	1.01
2400	Wi-Fi 802.11b/g/n	Body & Hotspot	Rear	Yes	1.120	1.100	1.02
2500	LTE Band 7	Head	Left Touch	Yes	0.927	0.912	1.02
2600	LTE Band 41	Hotspot	Edge 2	Yes	0.996	0.973	1.02
5200	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.120	1.100	1.02
5300	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.100	1.02	1.08
5500	Wi-Fi 802.11a/n/ac	Hotspot	Edge 4	Yes	1.110	1.06	1.05
5800	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.120	1.07	1.05

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 < 1.20 .

12. Simultaneous Transmission Conditions

KDB 447498 D01 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate 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 reported 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 reported 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:

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

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine **SAR₁** or **SAR₂**. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

Simultaneous transmission SAR measurement

When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY volume scan post-processing procedures to determine the 1-g SAR for the aggregate SAR distribution.

The spatial resolution used for all enlarged zoom scans is the same as used for the most stringent zoom scans. I.E. the scan parameters required for the highest frequency assessed are used for all enlarged zoom scans. The scans cover the complete area of the device to ensure all transmitting antennas and radiating structures are assessed.

DASY provides the ability to perform Multiband Evaluations according to the latest standards using the Volume Scan job as well as appropriate routines for the Post-processing.

In order to extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY = Combined MultiBand Averaged SAR.

Combined Multi Band Averaged SAR allows - in addition to the data extraction - an evaluation of the 1 g, 10 g and/or arbitrary averaged mass SAR.

Power Scaling Factor is used to allow the volume scans to be scaled by a value other than "1", this is important when the results need to be scaled to different maximum power levels. The Power Scaling Factor is applied to each individual point of the scan. When power scaling is used in multi-band combinations the scaling factor is applied to each individual point of the first scan, the second factor is then applied to each individual point of the second scan and so on. The scans are then combined.

Simultaneous transmission SAR Exclusion

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

The simultaneous transmission possibilities for this device are listed as below.

RF Exposure Condition	Item	Capable Transmit Configurations				
Head Body Worn Accessory Hotspot (for 2.4 GHz) Airplay (for 2.4/5 GHz)	1	WWAN OFF (CELLULAR ANTENNAS OFF)	+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P _{High})
	2		+	(ANT6) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P _{High})
	3		+	Wi-Fi 5 GHz MIMO ⁷	+	(ANT3) Bluetooth (P _{High})
	4		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P _{High})
	5		+	(ANT6) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P _{High})
	6		+	Wi-Fi 5 GHz MIMO ⁷	+	(ANT4) Bluetooth (P _{High})
	7		+	(ANT5) Wi-Fi 5 GHz SISO	+	Bluetooth Beamforming ⁷
	8		+	(ANT6) Wi-Fi 5 GHz SISO	+	Bluetooth Beamforming ⁷
	9		+	Wi-Fi 5 GHz MIMO ⁷	+	Bluetooth Beamforming ⁷
	10	WWAN ON (CELLULAR ANTENNAS ON)	+	(ANT2) Wi-Fi 2.4 GHz SISO		
	11		+	(ANT5) Wi-Fi 2.4 GHz SISO		
	12		+	Wi-Fi 2.4 GHz MIMO ⁷		
	13				+	(ANT3) Bluetooth (P _{High})
	14				+	(ANT4) Bluetooth (P _{High})
	15				+	Bluetooth Beamforming ⁷
	16		+	(ANT5) Wi-Fi 5 GHz SISO		
	17		+	(ANT6) Wi-Fi 5 GHz SISO		
	18		+	Wi-Fi 5 GHz MIMO ⁷		
	19		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P _{Low})
	20		+	(ANT6) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P _{Low})
	21		+	Wi-Fi 5 GHz MIMO ⁷	+	(ANT3) Bluetooth (P _{Low})
	22		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P _{Low})
	23		+	(ANT6) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P _{Low})
	24		+	Wi-Fi 5 GHz MIMO ⁷	+	(ANT4) Bluetooth (P _{Low})
	25		+	(ANT5) Wi-Fi 5 GHz SISO	+	Bluetooth Beamforming ⁷
	26		+	(ANT6) Wi-Fi 5 GHz SISO	+	Bluetooth Beamforming ⁷
	27		+	Wi-Fi 5 GHz MIMO ⁷	+	Bluetooth Beamforming ⁷

Note(s):

1. Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.
2. Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
3. WWAN ANT1, ANT2, ANT3, ANT4 and ANT6 cannot transmit simultaneously.
4. Bluetooth P_{Low} is used with Wi-Fi and WWAN antennas are active.
5. Bluetooth P_{High} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
6. Bluetooth P_{standalone} is used with Wi-Fi and WWAN antennas are inactive.

7. Wi-Fi SISO mode SAR result can also represent for MIMO mode SAR and is used for MIMO mode simultaneous transmission analysis because antennas are not overlapping and the MIMO mode maximum power is equal or less than SISO mode.

12.1. Sum of the SAR for WWAN Cell-off & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		1	2	3	4	1+3	1+4	2+3	2+4
		Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.065	0.520	0.216	0.205	0.281	0.270	0.736	0.725
	Left Tilt	0.059	0.663	0.008	0.230	0.067	0.289	0.671	0.893
	Right Touch	0.059	1.161	0.164	0.060	0.223	0.119	1.325	1.221
	Right Tilt	0.059	1.024	0.136	0.052	0.195	0.111	1.160	1.076
Body-worn & Hotspot	Rear	1.171	1.130	0.240	0.233	1.411	1.404	1.370	1.363
	Front	0.418	1.130	0.158	0.174	0.576	0.592	1.288	1.304
Hotspot	Edge 1		1.130		0.174		0.174	1.130	1.304
	Edge 2				0.194		0.194		0.194
	Edge 3	0.418		0.035		0.453	0.418	0.035	
	Edge 4	0.418	1.161	0.209		0.627	0.418	1.370	1.161

12.2. Sum of the SAR for WWAN Cell-on(ANT1) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT1	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.247	0.295	0.406	0.216	0.205	0.542	0.653	0.463	0.452
	Left Tilt	0.166	0.295	0.300	0.008	0.230	0.461	0.466	0.174	0.396
	Right Touch	0.385	0.295	0.300	0.164	0.060	0.680	0.685	0.549	0.445
	Right Tilt	0.169	0.295	0.300	0.136	0.052	0.464	0.469	0.305	0.221
Body-worn & Hptspot	Rear	0.997	0.447	0.490	0.240	0.233	1.444	1.487	1.237	1.230
	Front	0.662	0.425	0.296	0.158	0.174	1.087	0.958	0.820	0.836
Hotspot	Edge 2	0.996		0.296		0.194	1.421	1.292	0.996	1.190
	Edge 3	0.966	0.425		0.035		1.391	0.966	1.001	0.966
	Edge 4	0.473	0.425		0.209		0.898	0.473	0.682	0.473
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT1	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.247	0.065	0.298	0.048	0.079	0.359	0.390	0.593	0.624
	Left Tilt	0.166	0.065	0.298	0.013	0.090	0.244	0.321	0.477	0.554
	Right Touch	0.385	0.065	0.323	0.028	0.020	0.478	0.470	0.735	0.727
	Right Tilt	0.169	0.059	0.298	0.024	0.022	0.252	0.250	0.491	0.489
Body-worn & Hptspot	Rear	0.997	0.334	0.451	0.075	0.091	1.406	1.422	1.523	1.539
	Front	0.662	0.334	0.440	0.049	0.088	1.045	1.084	1.151	1.190
Hotspot	Edge 2	0.996				0.010	0.996	1.006	0.996	1.006
	Edge 3	0.966	0.334		0.010		1.310	1.300	0.976	0.966
	Edge 4	0.473	0.334	0.440	0.091		0.897	0.806	1.004	0.913

12.3. Sum of the SAR for WWAN Cell-on(ANT2) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT2	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.814	0.295	0.406	0.216	0.205	1.109	1.220	1.030	1.019
	Left Tilt	0.995	0.295	0.300	0.008	0.230	1.290	1.295	1.004	1.225
	Right Touch	0.999	0.295	0.300	0.164	0.060	1.294	1.299	1.163	1.059
	Right Tilt	0.997	0.295	0.300	0.136	0.052	1.292	1.297	1.133	1.049
Body-worn & Hptspot	Rear	0.897	0.447	0.490	0.240	0.233	1.344	1.387	1.137	1.130
	Front	0.664	0.425	0.296	0.158	0.174	1.089	0.960	0.822	0.838
Hotspot	Edge 1	0.766		0.296		0.174	1.191	1.062	0.766	0.940
	Edge 2	0.186		0.296		0.194	0.611	0.482	0.186	0.380
	Edge 4	0.642	0.425		0.209		1.067	0.642	0.851	0.642
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT2	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.814	0.065	0.298	0.048	0.079	0.927	0.958	1.160	1.191
	Left Tilt	0.995	0.065	0.298	0.013	0.090	1.073	1.150	1.306	1.383
	Right Touch	0.999	0.065	0.323	0.028	0.020	1.092	1.084	1.350	1.342
	Right Tilt	0.997	0.059	0.298	0.024	0.022	1.080	1.078	1.319	1.317
Body-worn & Hptspot	Rear	0.897	0.334	0.451	0.075	0.091	1.306	1.322	1.423	1.439
	Front	0.664	0.334	0.440	0.049	0.088	1.046	1.085	1.153	1.192
Hotspot	Edge 1	0.766		0.274		0.028	0.766	0.794	1.040	1.068
	Edge 2	0.186				0.010	0.186	0.196	0.186	0.196
	Edge 4	0.642	0.334	0.440	0.091		1.066	0.975	1.173	1.082

12.4. Sum of the SAR for WWAN Cell-on(ANT3) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT3	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.643	0.295	0.406	0.216	0.205	0.938	1.049	0.859	0.848
	Left Tilt	0.291	0.295	0.300	0.008	0.230	0.586	0.591	0.300	0.521
	Right Touch	0.452	0.295	0.300	0.164	0.060	0.747	0.752	0.616	0.512
	Right Tilt	0.442	0.295	0.300	0.136	0.052	0.737	0.742	0.578	0.494
Body-worn & Hptspot	Rear	0.994	0.447	0.490	0.240	0.233	1.441	1.484	1.234	1.227
	Front	0.639	0.425	0.296	0.158	0.174	1.064	0.935	0.797	0.813
Hotspot	Edge 3	0.290	0.425		0.035		0.715	0.290	0.325	0.290
	Edge 4	0.926	0.425		0.209		1.351	0.926	1.135	0.926

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					$\sum$ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT3	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.643	0.065	0.298	0.048	0.079	0.755	0.786	0.989	1.020
	Left Tilt	0.291	0.065	0.298	0.013	0.090	0.369	0.446	0.602	0.679
	Right Touch	0.452	0.065	0.323	0.028	0.020	0.545	0.537	0.803	0.795
	Right Tilt	0.442	0.059	0.298	0.024	0.022	0.525	0.523	0.764	0.762
Body-worn & Hptspot	Rear	0.994	0.334	0.451	0.075	0.091	1.403	1.419	1.520	1.536
	Front	0.639	0.334	0.440	0.049	0.088	1.021	1.060	1.128	1.167
Hotspot	Edge 3	0.290	0.334		0.010		0.633	0.623	0.300	0.290
	Edge 4	0.926	0.334	0.440	0.091		1.350	1.259	1.457	1.366

12.5. Sum of the SAR for WWAN Cell-on(ANT4) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					$\sum$ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.998	0.295	0.406	0.216	0.205	1.293	1.404	1.214	1.203
	Left Tilt	0.922	0.295	0.300	0.008	0.230	1.217	1.222	0.931	1.152
	Right Touch	0.270	0.295	0.300	0.164	0.060	0.565	0.570	0.434	0.330
	Right Tilt	0.269	0.295	0.300	0.136	0.052	0.564	0.569	0.405	0.321
Body-worn & Hptspot	Rear	0.894	0.447	0.490	0.240	0.233	1.341	1.384	1.134	1.127
	Front	0.682	0.425	0.296	0.158	0.174	1.107	0.978	0.840	0.856
Hotspot	Edge 1	0.533		0.296		0.174	0.958	0.829	0.533	0.707
	Edge 2	0.898		0.296		0.194	1.323	1.194	0.898	1.092
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					$\sum$ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT4	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.998	0.065	0.298	0.048	0.079	1.111	1.142	1.344	1.375
	Left Tilt	0.922	0.065	0.298	0.013	0.090	1.000	1.077	1.233	1.310
	Right Touch	0.270	0.065	0.323	0.028	0.020	0.363	0.355	0.621	0.613
	Right Tilt	0.269	0.059	0.298	0.024	0.022	0.352	0.350	0.591	0.589
Body-worn & Hptspot	Rear	0.894	0.334	0.451	0.075	0.091	1.303	1.319	1.420	1.436
	Front	0.682	0.334	0.440	0.049	0.088	1.065	1.104	1.171	1.210
Hotspot	Edge 1	0.533		0.440		0.028	0.867	0.895	0.973	1.001
	Edge 2	0.898	0.334	0.440		0.010	1.232	1.242	1.338	1.348

12.6. Sum of the SAR for WWAN Cell-on(ANT6) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT6	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.174	0.295	0.406	0.216	0.205	0.469	0.580	0.390	0.379
	Left Tilt	0.255	0.295	0.300	0.008	0.230	0.550	0.555	0.263	0.485
	Right Touch	0.255	0.295	0.300	0.164	0.060	0.550	0.555	0.419	0.315
	Right Tilt	0.203	0.295	0.300	0.136	0.052	0.498	0.503	0.339	0.255
Body-worn & Hptspot	Rear	0.430	0.447	0.490	0.240	0.233	0.877	0.920	0.670	0.663
	Front	0.076	0.425	0.296	0.158	0.174	0.501	0.372	0.234	0.250
Hotspot	Edge 1	0.117		0.296		0.174	0.542	0.413	0.117	0.291
	Edge 4	0.341	0.425		0.209		0.766	0.341	0.550	0.341
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT6	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.174	0.065	0.298	0.048	0.079	0.287	0.318	0.520	0.551
	Left Tilt	0.255	0.065	0.298	0.013	0.090	0.333	0.410	0.566	0.643
	Right Touch	0.255	0.065	0.323	0.028	0.020	0.348	0.340	0.606	0.598
	Right Tilt	0.203	0.059	0.298	0.024	0.022	0.286	0.284	0.525	0.523
Body-worn & Hptspot	Rear	0.430	0.334	0.451	0.075	0.091	0.839	0.855	0.956	0.972
	Front	0.076	0.334	0.440	0.049	0.088	0.458	0.497	0.565	0.604
Hotspot	Edge 1	0.117		0.274		0.028	0.117	0.145	0.391	0.419
	Edge 4	0.341	0.334	0.440	0.091		0.765	0.674	0.872	0.781

Appendixes

Refer to separated files for the following appendixes.

Appendix A: SAR Setup Photos

Appendix B: SAR System Check Plots

Appendix C: SAR Highest Test Plots

Appendix D: SAR Tissue Ingredients

Appendix E: SAR Probe Certificates

Appendix F: SAR Dipole Certificates

Appendix G: LTE Down-Link Carrier Aggregation

Appendix H: Body Detect Validation

END OF REPORT