



SAR EVALUATION REPORT

IEEE Std 1528-2013

For
SMARTPHONE

FCC ID: BCG-E3307A
Model Name: A2215

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Revision History

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V1	8/15/2019	Initial Issue	--
V2	8/20/2019	Updated Report in accordance with TCB feedback: Section 1, 8, 9.2, 9.4, 9.5, 10.4, 10.10, 10.15, 10.16, 10.18, 12.5, Appendix B, C and H	Devin Chang

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1. Attestation of Test Results

Applicant Name	APPLE, INC.				
FCC ID	BCG-E3307A				
Model Name	A2215				
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	Equipment Class - Highest Reported SAR (W/kg)				
	PCE	CBE	DTS	NII	DSS
Head	0.898	0.741	1.180	1.150	0.515
Body-worn (Dist.= 5 mm)	0.992	0.911	1.160	1.161	0.571
Hotspot (Dist.= 5 mm)	0.998	0.911	1.160	1.161	0.571
Simultaneous TX	Head	1.423	1.423	1.423	1.378
	Body-worn	1.478	1.478	1.467	1.478
	Hotspot	1.478	1.478	1.467	1.478
Date Tested	6/13/2019 to 8/8/2019 8/9/2019 to 8/17/2019				
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.			Chakrit Thammanavarat Senior Test Engineer UL Verification Services Inc.		

2. Test Specification, Methods and Procedures

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

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 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

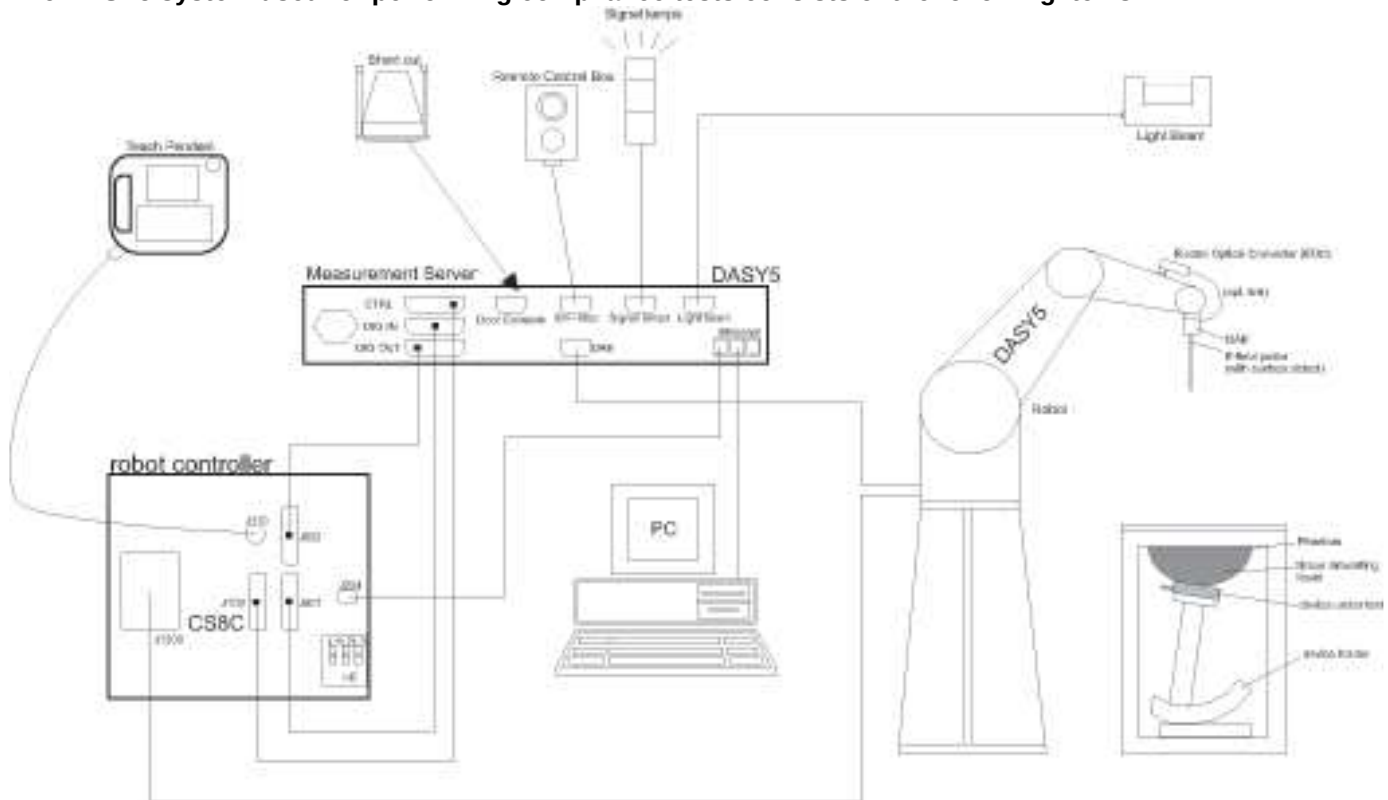
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 7
SAR Lab H	SAR Lab 8
	SAR Lab 9

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 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 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 four WWAN antennas (ANT1, ANT2, ANT3, ANT4, and ANT6) as well as multiple Wi-Fi/Bluetooth 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): 143.4 mm x 70.8 mm Overall Diagonal: 159.9 mm Display Diagonal: 148.6 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)		98.92% (802.11a/n/ac 20MHz BW) 97.93% (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 ¹	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:

- 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 band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
- 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):

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

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	6/18/2019	2600	Head	2600	38.26	39.01	-1.92	1.92	1.96	-2.25
				2495	38.41	39.14	-1.87	1.82	1.85	-1.39
				2690	38.09	38.90	-2.08	1.99	2.06	-3.32
A	6/21/2019	2600	Body	2600	51.60	52.51	-1.73	2.10	2.16	-3.05
				2495	51.85	52.64	-1.51	1.97	2.01	-2.05
				2690	51.33	52.40	-2.04	2.20	2.29	-3.82
A	6/21/2019	2600	Head	2600	37.20	39.01	-4.64	1.98	1.96	1.06
				2495	37.34	39.14	-4.61	1.89	1.85	2.40
				2690	37.01	38.90	-4.85	2.05	2.06	-0.31
A	6/24/2019	2600	Head	2600	37.83	39.01	-3.03	1.92	1.96	-2.15
				2495	37.97	39.14	-3.00	1.83	1.85	-1.17
				2690	37.66	38.90	-3.18	1.99	2.06	-3.28
A	6/24/2019	2600	Body	2600	52.35	52.51	-0.31	2.07	2.16	-4.11
				2495	52.58	52.64	-0.12	1.94	2.01	-3.44
				2690	52.11	52.40	-0.55	2.18	2.29	-4.73
A	6/27/2019	2600	Body	2600	52.75	52.51	0.46	2.24	2.16	3.53
				2495	53.05	52.64	0.77	2.10	2.01	4.06
				2690	52.43	52.40	0.06	2.35	2.29	2.57
A	6/27/2019	2600	Head	2600	37.57	39.01	-3.69	2.00	1.96	2.13
				2495	37.78	39.14	-3.48	1.91	1.85	3.05
				2690	37.36	38.90	-3.95	2.08	2.06	0.80
A	7/1/2019	2600	Body	2600	50.08	52.51	-4.63	2.14	2.16	-1.10
				2495	50.33	52.64	-4.39	2.01	2.01	-0.11
				2690	49.81	52.40	-4.94	2.24	2.29	-1.89
A	7/1/2019	2600	Head	2600	37.32	39.01	-4.33	1.97	1.96	0.45
				2495	37.45	39.14	-4.33	1.87	1.85	1.37
				2690	37.15	38.90	-4.49	2.05	2.06	-0.56
A	7/5/2019	2600	Head	2600	39.53	39.01	1.33	1.92	1.96	-1.94
				2495	39.66	39.14	1.32	1.83	1.85	-1.17
				2690	39.38	38.90	1.24	2.01	2.06	-2.55
A	7/5/2019	2600	Body	2600	51.44	52.51	-2.04	2.07	2.16	-4.30
				2495	51.65	52.64	-1.89	1.94	2.01	-3.44
				2690	51.20	52.40	-2.29	2.18	2.29	-4.65
A	7/9/2019	2600	Body	2600	51.72	52.51	-1.51	2.07	2.16	-4.06
				2495	51.95	52.64	-1.32	1.94	2.01	-3.59
				2690	51.44	52.40	-1.83	2.18	2.29	-4.65
A	7/9/2019	2600	Head	2600	37.52	39.01	-3.82	1.94	1.96	-1.08
				2495	37.65	39.14	-3.81	1.85	1.85	-0.20
				2690	37.32	38.90	-4.06	2.01	2.06	-2.21
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

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	6/14/2019	1900	Body	1900	50.81	53.30	-4.67	1.54	1.52	1.32
				1850	50.99	53.30	-4.33	1.49	1.52	-1.84
				1920	50.78	53.30	-4.73	1.57	1.52	2.96
B	6/14/2019	1900	Head	1900	38.28	40.00	-4.30	1.38	1.40	-1.14
				1850	38.35	40.00	-4.13	1.36	1.40	-2.64
				1920	38.29	40.00	-4.28	1.40	1.40	-0.14
B	6/17/2019	1750	Body	1750	51.93	53.44	-2.83	1.54	1.49	3.56
				1710	52.08	53.54	-2.73	1.49	1.46	2.22
				1755	51.89	53.43	-2.88	1.55	1.49	3.74
B	6/17/2019	1750	Head	1750	39.15	40.08	-2.33	1.37	1.37	0.00
				1710	39.20	40.15	-2.36	1.35	1.35	-0.03
				1755	39.12	40.08	-2.39	1.37	1.37	-0.06
B	6/17/2019	1900	Body	1900	53.55	53.30	0.47	1.56	1.52	2.57
				1850	53.77	53.30	0.88	1.50	1.52	-1.05
				1920	53.49	53.30	0.36	1.58	1.52	4.21
B	6/17/2019	1900	Head	1900	38.70	40.00	-3.25	1.44	1.40	3.14
				1850	38.77	40.00	-3.07	1.42	1.40	1.21
				1920	38.70	40.00	-3.25	1.46	1.40	4.29
B	6/21/2019	1750	Head	1750	38.26	40.08	-4.55	1.37	1.37	-0.14
				1710	38.32	40.15	-4.55	1.34	1.35	-0.40
				1755	38.25	40.08	-4.56	1.37	1.37	-0.13
B	6/21/2019	1750	Body	1750	51.20	53.44	-4.19	1.51	1.49	1.67
				1710	51.32	53.54	-4.15	1.46	1.46	0.17
				1755	51.17	53.43	-4.23	1.52	1.49	1.86
B	6/25/2019	1750	Head	1750	40.76	40.08	1.68	1.35	1.37	-1.24
				1710	40.79	40.15	1.60	1.33	1.35	-1.52
				1755	40.75	40.08	1.68	1.36	1.37	-1.22
B	6/25/2019	1750	Body	1750	53.69	53.44	0.47	1.50	1.49	0.60
				1710	53.78	53.54	0.44	1.45	1.46	-0.99
				1755	53.67	53.43	0.45	1.50	1.49	0.72
B	6/29/2019	1750	Head	1750	39.42	40.08	-1.66	1.32	1.37	-3.87
				1710	39.43	40.15	-1.78	1.29	1.35	-4.04
				1755	39.41	40.08	-1.66	1.32	1.37	-3.92
B	6/29/2019	1750	Body	1750	51.18	53.44	-4.23	1.48	1.49	-0.35
				1710	51.26	53.54	-4.26	1.44	1.46	-1.75
				1755	51.16	53.43	-4.25	1.49	1.49	-0.15
B	7/2/2019	1750	Body	1750	53.04	53.44	-0.75	1.48	1.49	-0.41
				1710	53.15	53.54	-0.74	1.43	1.46	-2.02
				1755	53.02	53.43	-0.76	1.49	1.49	-0.28

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	7/2/2019	1750	Head	1750	40.61	40.08	1.31	1.33	1.37	-2.63
				1710	40.60	40.15	1.13	1.30	1.35	-3.30
				1755	40.60	40.08	1.31	1.34	1.37	-2.54
B	7/3/2019	1900	Head	1900	39.03	40.00	-2.43	1.44	1.40	2.86
				1850	39.09	40.00	-2.27	1.41	1.40	1.00
				1920	39.04	40.00	-2.40	1.45	1.40	3.71
B	7/3/2019	1900	Body	1900	51.13	53.30	-4.07	1.57	1.52	2.96
				1850	51.31	53.30	-3.73	1.51	1.52	-0.72
				1920	51.09	53.30	-4.15	1.59	1.52	4.47
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	7/30/2019	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
C	6/18/2019	1900	Head	1900	39.29	40.00	-1.78	1.44	1.40	2.64
				1850	39.54	40.00	-1.15	1.40	1.40	-0.07
				1920	39.25	40.00	-1.88	1.46	1.40	4.07
C	6/18/2019	1900	Body	1900	52.78	53.30	-0.98	1.55	1.52	2.04
				1850	52.95	53.30	-0.66	1.51	1.52	-0.59
				1920	52.75	53.30	-1.03	1.57	1.52	3.36
C	6/21/2019	1900	Body	1900	54.66	53.30	2.55	1.56	1.52	2.37
				1850	54.77	53.30	2.76	1.51	1.52	-0.39
				1920	54.64	53.30	2.51	1.58	1.52	3.75
C	6/21/2019	1900	Head	1900	38.35	40.00	-4.13	1.43	1.40	2.21
				1850	38.53	40.00	-3.68	1.39	1.40	-0.79
				1920	38.31	40.00	-4.22	1.45	1.40	3.79
C	6/25/2019	1900	Head	1900	38.44	40.00	-3.90	1.44	1.40	2.79
				1850	38.63	40.00	-3.42	1.40	1.40	0.00
				1920	38.39	40.00	-4.03	1.46	1.40	4.29
C	6/25/2019	1900	Body	1900	51.25	53.30	-3.85	1.52	1.52	0.26
				1850	51.38	53.30	-3.60	1.48	1.52	-2.37
				1920	51.21	53.30	-3.92	1.55	1.52	1.64
C	6/29/2019	1900	Head	1900	38.94	40.00	-2.65	1.43	1.40	2.21
				1850	39.16	40.00	-2.10	1.39	1.40	-0.79
				1920	38.88	40.00	-2.80	1.45	1.40	3.57
C	6/29/2019	1900	Body	1900	51.43	53.30	-3.51	1.51	1.52	-0.79
				1850	51.61	53.30	-3.17	1.47	1.52	-3.42
				1920	51.40	53.30	-3.56	1.53	1.52	0.46
C	7/2/2019	1900	Body	1900	52.29	53.30	-1.89	1.50	1.52	-1.58
				1850	52.42	53.30	-1.65	1.46	1.52	-4.21
				1920	52.26	53.30	-1.95	1.52	1.52	-0.26

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
C	7/2/2019	1900	Head	1900	39.32	40.00	-1.70	1.43	1.40	1.79
				1850	39.49	40.00	-1.28	1.39	1.40	-0.93
				1920	39.27	40.00	-1.82	1.45	1.40	3.21
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
D	6/20/2019	2600	Head	2600	37.66	39.01	-3.46	1.99	1.96	1.52
				2495	37.82	39.14	-3.38	1.90	1.85	2.72
				2690	37.47	38.90	-3.67	2.06	2.06	0.17
D	6/21/2019	2300	Body	2300	50.77	52.90	-4.03	1.82	1.80	0.69
				2350	50.61	52.84	-4.22	1.87	1.85	0.77
				2400	50.42	52.77	-4.46	1.92	1.90	1.21
D	6/21/2019	2300	Head	2300	39.49	39.47	0.04	1.73	1.66	3.68
				2350	39.40	39.38	0.04	1.76	1.71	2.95
				2400	39.30	39.30	0.01	1.80	1.75	2.47
D	6/21/2019	2600	Body	2600	50.72	52.51	-3.41	2.22	2.16	2.60
				2495	51.01	52.64	-3.10	2.08	2.01	3.22
				2690	50.40	52.40	-3.81	2.33	2.29	1.95
D	6/24/2019	2300	Head	2300	41.00	39.47	3.87	1.71	1.66	2.84
				2350	40.91	39.38	3.87	1.74	1.71	2.13
				2400	40.81	39.30	3.85	1.78	1.75	1.62
D	6/24/2019	2600	Head	2600	40.57	39.01	4.00	1.95	1.96	-0.52
				2495	40.70	39.14	3.98	1.86	1.85	0.45
				2690	40.39	38.90	3.84	2.03	2.06	-1.58
D	6/24/2019	2300	Body	2300	51.23	52.90	-3.16	1.76	1.80	-2.52
				2350	51.08	52.84	-3.33	1.81	1.85	-2.31
				2400	50.92	52.77	-3.51	1.86	1.90	-1.85
D	6/24/2019	2600	Body	2600	50.43	52.51	-3.96	2.10	2.16	-2.72
				2495	50.70	52.64	-3.69	1.97	2.01	-2.00
				2690	50.16	52.40	-4.27	2.21	2.29	-3.29
D	6/27/2019	2300	Body	2300	51.69	52.90	-2.30	1.83	1.80	1.41
				2350	51.52	52.84	-2.50	1.89	1.85	2.01
				2400	51.33	52.77	-2.73	1.95	1.90	2.69
D	6/27/2019	2600	Body	2600	50.73	52.51	-3.40	2.19	2.16	1.49
				2495	51.03	52.64	-3.06	2.06	2.01	2.42
				2690	50.41	52.40	-3.79	2.30	2.29	0.60
D	6/29/2019	2300	Head	2300	38.87	39.47	-1.53	1.66	1.66	-0.10
				2350	38.79	39.38	-1.51	1.69	1.71	-0.86
				2400	38.70	39.30	-1.52	1.73	1.75	-1.29
D	6/29/2019	2600	Head	2600	38.47	39.01	-1.39	1.89	1.96	-3.68
				2495	38.61	39.14	-1.36	1.80	1.85	-2.47
				2690	38.29	38.90	-1.56	1.96	2.06	-4.93
D	7/1/2019	2300	Body	2300	51.15	52.90	-3.32	1.84	1.80	1.97
				2350	51.01	52.84	-3.46	1.84	1.85	-0.64
				2400	50.79	52.77	-3.76	1.94	1.90	2.11
D	7/1/2019	2600	Body	2600	50.08	52.51	-4.63	2.16	2.16	0.10
				2495	50.31	52.64	-4.43	2.03	2.01	0.78
				2690	49.81	52.40	-4.94	2.25	2.29	-1.85
D	7/5/2019	2600	Head	2600	37.53	39.01	-3.80	1.91	1.96	-2.66
				2495	37.64	39.14	-3.84	1.82	1.85	-1.71
				2690	37.37	38.90	-3.93	1.99	2.06	-3.57

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	7/5/2019	2600	Body	2600	51.61	52.51	-1.72	2.11	2.16	-2.40
				2495	51.83	52.64	-1.54	1.98	2.01	-1.50
				2690	51.35	52.40	-2.00	2.22	2.29	-2.77
D	7/5/2019	2300	Head	2300	37.99	39.47	-3.76	1.68	1.66	0.92
				2350	37.91	39.38	-3.74	1.71	1.71	0.02
				2400	37.79	39.30	-3.83	1.75	1.75	-0.27
D	7/5/2019	2300	Body	2300	52.41	52.90	-0.93	1.76	1.80	-2.19
				2350	52.26	52.84	-1.09	1.81	1.85	-1.99
				2400	52.10	52.77	-1.27	1.88	1.90	-1.11
D	7/9/2019	2600	Head	2600	38.26	39.01	-1.92	1.95	1.96	-0.47
				2495	38.39	39.14	-1.92	1.86	1.85	0.56
				2690	38.07	38.90	-2.13	2.03	2.06	-1.58
D	7/9/2019	2600	Body	2600	50.94	52.51	-2.99	2.11	2.16	-2.49
				2495	51.18	52.64	-2.78	1.98	2.01	-1.80
				2690	50.65	52.40	-3.33	2.22	2.29	-3.16
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
E	6/17/2019	5750	Body	5750	47.43	48.27	-1.75	6.00	5.94	1.00
				5700	47.49	48.34	-1.76	5.95	5.88	1.20
				5850	47.31	48.20	-1.85	6.14	6.00	2.40
E	6/17/2019	5750	Head	5750	35.60	35.36	0.67	5.01	5.21	-3.98
				5700	35.67	35.42	0.71	4.97	5.16	-3.81
				5850	35.48	35.30	0.51	5.12	5.27	-2.79
E	6/20/2019	5750	Head	5750	35.22	35.36	-0.40	5.03	5.21	-3.56
				5700	35.31	35.42	-0.31	4.97	5.16	-3.73
				5850	35.13	35.30	-0.48	5.12	5.27	-2.92
E	6/20/2019	5750	Body	5750	46.75	48.27	-3.16	6.07	5.94	2.29
				5700	46.85	48.34	-3.09	6.00	5.88	2.10
				5850	46.63	48.20	-3.26	6.20	6.00	3.38
E	6/24/2019	5750	Head	5750	34.82	35.36	-1.53	5.07	5.21	-2.74
				5700	34.92	35.42	-1.41	5.01	5.16	-2.97
				5850	34.72	35.30	-1.64	5.17	5.27	-1.84
E	6/24/2019	5750	Body	5750	46.10	48.27	-4.50	6.11	5.94	2.93
				5700	46.25	48.34	-4.33	5.99	5.88	1.84
				5850	45.96	48.20	-4.65	6.21	6.00	3.50
E	6/24/2019	2450	Body	2450	50.30	52.70	-4.55	1.94	1.95	-0.36
				2400	50.45	52.77	-4.40	1.88	1.90	-1.16
				2480	50.24	52.66	-4.60	1.98	1.99	-0.56

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
E	6/28/2019	5750	Body	5750	47.00	48.27	-2.64	6.08	5.94	2.44
				5700	47.01	48.34	-2.76	6.04	5.88	2.70
				5850	46.80	48.20	-2.90	6.24	6.00	4.02
E	6/28/2019	5750	Head	5750	35.93	35.36	1.60	5.09	5.21	-2.45
				5700	35.92	35.42	1.41	5.06	5.16	-1.97
				5850	35.78	35.30	1.36	5.21	5.27	-1.16
E	6/29/2019	5250	Head	5250	35.30	35.93	-1.76	4.59	4.70	-2.30
				5150	35.24	36.05	-2.24	4.48	4.60	-2.54
				5350	35.10	35.82	-2.01	4.76	4.80	-0.86
E	6/29/2019	5250	Body	5250	49.45	48.95	1.02	5.34	5.35	-0.30
				5150	49.25	49.09	0.33	5.22	5.24	-0.35
				5350	49.36	48.82	1.11	5.55	5.47	1.54
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	7/30/2019	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

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	6/17/2019	2450	Body	2450	51.92	52.70	-1.48	1.98	1.95	1.59
				2400	52.10	52.77	-1.27	1.91	1.90	0.79
				2480	51.85	52.66	-1.54	2.02	1.99	1.30
F	6/17/2019	2450	Head	2450	39.82	39.20	1.58	1.88	1.80	4.50
				2400	40.01	39.30	1.82	1.82	1.75	3.96
				2480	39.74	39.16	1.48	1.91	1.83	4.45
F	6/20/2019	2450	Head	2450	38.69	39.20	-1.30	1.89	1.80	4.83
				2400	38.86	39.30	-1.11	1.83	1.75	4.53
				2480	38.61	39.16	-1.41	1.92	1.83	4.78
F	6/20/2019	2450	Body	2450	51.15	52.70	-2.94	2.03	1.95	4.15
				2400	51.31	52.77	-2.77	1.97	1.90	3.63
				2480	51.06	52.66	-3.04	2.07	1.99	3.86
F	6/24/2019	2450	Head	2450	39.79	39.20	1.51	1.82	1.80	1.00
				2400	39.95	39.30	1.66	1.76	1.75	0.59
				2480	39.72	39.16	1.42	1.85	1.83	0.90
F	6/24/2019	2450	Body	2450	51.27	52.70	-2.71	2.01	1.95	3.28
				2400	51.44	52.77	-2.53	1.95	1.90	2.69
				2480	51.20	52.66	-2.78	2.05	1.99	2.85
F	6/28/2019	2450	Body	2450	51.26	52.70	-2.73	2.04	1.95	4.77
				2400	51.44	52.77	-2.53	1.97	1.90	3.74
				2480	51.21	52.66	-2.76	2.08	1.99	4.31
F	6/28/2019	2450	Head	2450	38.67	39.20	-1.35	1.87	1.80	4.06
				2400	38.88	39.30	-1.06	1.81	1.75	3.56
				2480	38.61	39.16	-1.41	1.91	1.83	4.01
F	7/1/2019	2450	Head	2450	38.38	39.20	-2.09	1.88	1.80	4.56
				2400	38.57	39.30	-1.85	1.82	1.75	4.07
				2480	38.31	39.16	-2.18	1.92	1.83	4.51
F	7/1/2019	2450	Body	2450	52.27	52.70	-0.82	1.99	1.95	2.26
				2400	52.45	52.77	-0.61	1.93	1.90	1.47
				2480	52.21	52.66	-0.86	2.03	1.99	1.90
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

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	7/30/2019	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
G	6/17/2019	5250	Head	5250	36.68	35.93	2.08	4.68	4.70	-0.51
				5150	36.84	36.05	2.20	4.58	4.60	-0.39
				5350	36.52	35.82	1.96	4.80	4.80	-0.09
G	6/17/2019	5250	Body	5250	48.11	48.95	-1.72	5.34	5.35	-0.32
				5150	48.30	49.09	-1.60	5.20	5.24	-0.68
				5350	47.94	48.82	-1.80	5.48	5.47	0.23
G	6/20/2019	5250	Head	5250	36.25	35.93	0.88	4.52	4.70	-3.83
				5150	36.42	36.05	1.03	4.43	4.60	-3.80
				5350	36.11	35.82	0.81	4.62	4.80	-3.80
G	6/20/2019	5250	Body	5250	46.97	48.95	-4.05	5.22	5.35	-2.56
				5150	47.16	49.09	-3.93	5.09	5.24	-2.74
				5350	46.80	48.82	-4.13	5.34	5.47	-2.35
G	6/24/2019	5250	Head	5250	36.04	35.93	0.30	4.65	4.70	-1.22
				5150	36.20	36.05	0.42	4.54	4.60	-1.28
				5350	35.88	35.82	0.17	4.75	4.80	-1.05
G	6/24/2019	5250	Body	5250	47.31	48.95	-3.35	5.39	5.35	0.69
				5150	47.51	49.09	-3.21	5.25	5.24	0.32
				5350	47.11	48.82	-3.50	5.53	5.47	1.14
G	6/26/2019	2600	Body	2600	51.06	52.51	-2.76	2.17	2.16	0.52
				2495	51.39	52.64	-2.38	2.02	2.01	0.29
				2690	50.70	52.40	-3.24	2.30	2.29	0.51
G	7/1/2019	2600	Body	2600	51.11	52.51	-2.67	2.24	2.16	3.85
				2495	51.55	52.64	-2.08	2.07	2.01	2.67
				2690	50.81	52.40	-3.03	2.37	2.29	3.79
G	7/1/2019	5250	Head	5250	35.65	35.93	-0.79	4.56	4.70	-3.00
				5150	35.80	36.05	-0.69	4.46	4.60	-3.00
				5350	35.48	35.82	-0.95	4.67	4.80	-2.76
G	7/1/2019	5250	Body	5250	49.71	48.95	1.55	5.39	5.35	0.77
				5150	49.90	49.09	1.66	5.26	5.24	0.49
				5350	49.52	48.82	1.44	5.55	5.47	1.53

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
G	7/3/2019	1900	Body	1900	51.43	53.30	-3.51	1.54	1.52	1.32
				1850	51.66	53.30	-3.08	1.48	1.52	-2.37
				1920	51.34	53.30	-3.68	1.56	1.52	2.89
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
H	6/16/2019	5600	Body	5600	48.38	48.48	-0.20	5.55	5.76	-3.71
				5500	48.55	48.61	-0.13	5.41	5.64	-4.17
				5725	48.17	48.31	-0.29	5.73	5.91	-3.01
H	6/17/2019	5600	Head	5600	34.73	35.53	-2.26	4.91	5.06	-2.93
				5500	34.91	35.65	-2.07	4.80	4.96	-3.27
				5725	34.51	35.39	-2.49	5.07	5.19	-2.34
H	6/20/2019	5600	Head	5600	36.11	35.53	1.62	4.84	5.06	-4.45
				5500	36.25	35.65	1.69	4.72	4.96	-4.78
				5725	35.91	35.39	1.47	4.97	5.19	-4.15
H	6/20/2019	5600	Body	5600	46.87	48.48	-3.32	5.71	5.76	-0.87
				5500	47.00	48.61	-3.32	5.57	5.64	-1.39
				5725	46.65	48.31	-3.43	5.88	5.91	-0.50
H	6/24/2019	5600	Head	5600	34.85	35.53	-1.92	4.96	5.06	-2.00
				5500	35.03	35.65	-1.73	4.84	4.96	-2.40
				5725	34.63	35.39	-2.15	5.12	5.19	-1.37
H	6/24/2019	5600	Body	5600	49.34	48.48	1.78	5.56	5.76	-3.51
				5500	49.48	48.61	1.78	5.41	5.64	-4.08
				5725	49.15	48.31	1.74	5.74	5.91	-2.84

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	6/25/2019	2450	Head	2450	37.31	39.20	-4.82	1.75	1.80	-2.56
				2400	37.39	39.30	-4.85	1.72	1.75	-2.09
				2480	37.32	39.16	-4.70	1.78	1.83	-3.03
H	6/28/2019	5600	Body	5600	46.64	48.48	-3.79	5.48	5.76	-4.88
				5500	47.02	48.61	-3.28	5.39	5.64	-4.47
				5725	46.38	48.31	-3.99	5.63	5.91	-4.65
H	6/28/2019	5600	Head	5600	33.94	35.53	-4.49	4.88	5.06	-3.60
				5500	34.23	35.65	-3.98	4.81	4.96	-3.08
				5725	33.66	35.39	-4.89	5.02	5.19	-3.32
H	6/29/2019	5250	Body	5250	51.23	48.95	4.65	5.10	5.35	-4.80
				5150	51.43	49.09	4.77	4.99	5.24	-4.72
				5350	51.09	48.82	4.66	5.24	5.47	-4.16
H	6/30/2019	1900	Head	1900	39.12	40.00	-2.20	1.42	1.40	1.50
				1850	39.27	40.00	-1.82	1.40	1.40	-0.14
				1920	39.11	40.00	-2.23	1.44	1.40	2.57
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
6	7/2/2019	3500	Head	3500	39.20	37.93	3.35	2.79	2.91	-4.11
				3600	39.02	37.82	3.19	2.89	3.01	-4.24
				3700	38.83	37.70	2.99	2.98	3.12	-4.34
6	7/2/2019	3500	Body	3500	50.98	51.32	-0.67	3.40	3.31	2.69
				3600	50.72	51.19	-0.91	3.54	3.43	3.14
				3700	50.47	51.05	-1.14	3.67	3.55	3.41
6	7/6/2019	3500	Head	3500	39.35	37.93	3.74	2.81	2.91	-3.49
				3600	39.15	37.82	3.53	2.90	3.01	-3.75
				3700	38.83	37.70	2.99	2.98	3.12	-4.34
6	7/6/2019	3500	Body	3500	52.40	51.32	2.10	3.35	3.31	1.15
				3600	52.12	51.19	1.82	3.48	3.43	1.59
				3700	51.83	51.05	1.52	3.63	3.55	2.25

Dielectric Property Measurements Results (Continued):

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
7	6/14/2019	835	Head	835	40.58	41.50	-2.22	0.93	0.90	3.86
				805	40.66	41.68	-2.45	0.93	0.90	3.09
				850	40.51	41.50	-2.39	0.94	0.92	2.51
7	6/14/2019	835	Body	835	52.75	55.20	-4.44	1.02	0.97	4.95
				805	52.79	55.33	-4.60	1.01	0.97	4.21
				850	52.70	55.16	-4.45	1.02	0.99	3.53
7	6/18/2019	835	Body	835	54.21	55.20	-1.79	1.05	0.97	8.04
				805	54.17	55.33	-2.10	1.03	0.97	6.17
				850	54.19	55.16	-1.75	1.05	0.99	6.77
7	6/19/2019	835	Head	835	39.80	41.50	-4.10	0.94	0.90	4.28
				805	39.82	41.68	-4.46	0.93	0.90	3.43
				850	39.75	41.50	-4.22	0.94	0.92	2.94
7	6/21/2019	2600	Head	2600	40.42	39.01	3.61	1.89	1.96	-3.58
				2495	40.54	39.14	3.57	1.78	1.85	-3.50
				2690	40.26	38.90	3.50	1.96	2.06	-4.98
7	6/25/2019	835	Head	835	39.48	41.50	-4.87	0.94	0.90	4.48
				805	39.60	41.68	-4.99	0.94	0.90	4.20
				850	39.43	41.50	-4.99	0.95	0.92	3.37
7	6/25/2019	835	Body	835	53.78	55.20	-2.57	1.01	0.97	4.54
				805	53.87	55.33	-2.65	1.01	0.97	4.10
				850	53.74	55.16	-2.57	1.02	0.99	3.33
7	6/27/2019	2600	Body	2600	52.91	52.51	0.76	2.08	2.16	-3.74
				2495	53.02	52.64	0.72	1.93	2.01	-4.09
				2690	52.76	52.40	0.69	2.20	2.29	-3.95
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	7/26/2019	835	Head	835	43.47	41.50	4.75	0.94	0.90	4.77
				805	43.48	41.68	4.32	0.93	0.90	3.99
				850	43.46	41.50	4.72	0.95	0.92	3.58
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

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
9	6/16/2019	835	Head	835	41.56	41.50	0.14	0.94	0.90	3.93
				805	41.59	41.68	-0.21	0.92	0.90	3.04
				850	41.53	41.50	0.07	0.94	0.92	2.72
9	6/24/2019	3500	Head	3500	37.97	37.93	0.11	2.90	2.91	-0.54
				3600	37.86	37.82	0.12	2.97	3.01	-1.56
				3700	37.54	37.70	-0.43	3.06	3.12	-1.77
9	6/24/2019	3500	Body	3500	52.55	51.32	2.39	3.15	3.31	-4.80
				3600	52.30	51.19	2.17	3.29	3.43	-4.10
				3700	52.06	51.05	1.98	3.43	3.55	-3.41
9	6/28/2019	750	Head	750	42.67	41.96	1.69	0.92	0.89	3.42
				660	43.01	42.42	1.38	0.88	0.89	-0.78
				800	42.53	41.71	1.98	0.95	0.90	5.58
9	6/28/2019	750	Body	750	53.55	55.55	-3.59	0.96	0.96	-0.31
				660	55.39	55.89	-0.90	0.90	0.96	-6.13
				800	53.25	55.35	-3.80	1.01	0.97	4.46
9	6/28/2019	2600	Head	2600	40.07	39.01	2.72	1.96	1.96	-0.31
				2495	40.60	39.14	3.72	1.76	1.85	-4.74
				2690	39.41	38.90	1.32	2.07	2.06	0.61
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	7/4/2019	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

Dielectric Property Measurements Results (Continued):

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
9	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
9	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
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

Additional SAR tested from 8/9/2019-8/17/2019

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	3700	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
F	8/9/2019	3700	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	8/17/2019	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
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

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 Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
A	6/18/2019	Head	D2600V2 SN:1036	3/22/2020	5.450	54.50	55.90	-2.50	2.430	24.30	24.80	-2.02	
A	6/21/2019	Body	D2600V2 SN:1036	3/22/2020	5.680	56.80	53.90	5.38	2.550	25.50	23.90	6.69	
A	6/21/2019	Head	D2600V2 SN:1036	3/22/2020	5.810	58.10	55.90	3.94	2.600	26.00	24.80	4.84	
A	6/24/2019	Head	D2600V2 SN:1036	3/22/2020	5.640	56.40	55.90	0.89	2.530	25.30	24.80	2.02	
A	6/24/2019	Body	D2600V2 SN:1036	3/22/2020	5.500	55.00	53.90	2.04	2.480	24.80	23.90	3.77	
A	6/27/2019	Body	D2600V2 SN:1036	3/22/2020	5.660	56.60	53.90	5.01	2.500	25.00	23.90	4.60	
A	6/27/2019	Head	D2600V2 SN:1036	3/22/2020	5.840	58.40	55.90	4.47	2.620	26.20	24.80	5.65	
A	7/1/2019	Body	D2600V2 SN:1036	3/22/2020	5.750	57.50	53.90	6.68	2.570	25.70	23.90	7.53	1,2
A	7/1/2019	Head	D2600V2 SN:1036	3/22/2020	5.960	59.60	55.90	6.62	2.680	26.80	24.80	8.06	
A	7/5/2019	Head	D2600V2 SN:1036	3/22/2020	5.960	59.60	55.90	6.62	2.670	26.70	24.80	7.66	
A	7/5/2019	Body	D2600V2 SN:1036	3/22/2020	5.710	57.10	53.90	5.94	2.560	25.60	23.90	7.11	
A	7/9/2019	Body	D2600V2 SN:1036	3/22/2020	5.620	56.20	53.90	4.27	2.540	25.40	23.90	6.28	
A	7/9/2019	Head	D2600V2 SN:1036	3/22/2020	5.770	57.70	55.90	3.22	2.600	26.00	24.80	4.84	
A	7/29/2019	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	
B	6/14/2019	Body	D1900V2 SN:5d140	4/17/2020	4.220	42.20	40.40	4.46	2.170	21.70	21.30	1.88	3,4
B	6/14/2019	Head	D1900V2 SN:5d140	4/17/2020	4.090	40.90	39.50	3.54	2.100	21.00	20.60	1.94	
B	6/17/2019	Body	D1750V2 SN:1050	4/17/2020	3.770	37.70	36.40	3.57	1.970	19.70	19.20	2.60	
B	6/17/2019	Head	D1750V2 SN:1050	4/17/2020	3.670	36.70	35.40	3.67	1.940	19.40	18.60	4.30	
B	6/17/2019	Body	D1900V2 SN:5d140	4/17/2020	4.000	40.00	40.40	-0.99	2.060	20.60	21.30	-3.29	
B	6/17/2019	Head	D1900V2 SN:5d140	4/17/2020	3.980	39.80	39.50	0.76	2.050	20.50	20.60	-0.49	
B	6/21/2019	Head	D1750V2 SN:1050	4/17/2020	3.730	37.30	35.40	5.37	1.970	19.70	18.60	5.91	
B	6/21/2019	Body	D1750V2 SN:1050	4/17/2020	3.920	39.20	36.40	7.69	2.030	20.30	19.20	5.73	5,6
B	6/25/2019	Head	D1750V2 SN:1077	10/16/2019	3.650	36.50	38.69	-5.66	1.930	19.30	20.46	-5.67	
B	6/25/2019	Body	D1750V2 SN:1077	10/16/2019	3.700	37.00	39.29	-5.83	1.930	19.30	21.05	-8.31	
B	6/29/2019	Head	D1750V2 SN:1050	4/17/2020	3.580	35.80	35.40	1.13	1.890	18.90	18.60	1.61	
B	6/29/2019	Body	D1750V2 SN:1050	4/17/2020	3.540	35.40	36.40	-2.75	1.840	18.40	19.20	-4.17	
B	7/2/2019	Body	D1750V2 SN:1077	10/16/2019	3.950	39.50	39.29	0.53	2.060	20.60	21.05	-2.14	
B	7/2/2019	Head	D1750V2 SN:1077	10/16/2019	3.630	36.30	38.69	-6.18	1.910	19.10	20.46	-6.65	7,8
B	7/3/2019	Head	D1900V2 SN:5d163	10/16/2019	4.230	42.30	42.19	0.26	2.170	21.70	21.73	-0.14	
B	7/3/2019	Body	D1900V2 SN:5d163	10/16/2019	4.530	45.30	42.59	6.36	2.340	23.40	22.17	5.55	9,10
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	7/30/2019	Head	D2600V2 SN:1036	3/22/2020	5.740	57.40	55.90	2.68	2.560	25.60	24.80	3.23	11,12

System Check Results (Continued):

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	6/18/2019	Head	D1900V2 SN:5d163	10/16/2019	4.160	41.60	42.19	-1.40	2.110	21.10	21.73	-2.90	
C	6/18/2019	Body	D1900V2 SN:5d163	10/16/2019	4.350	43.50	42.59	2.14	2.210	22.10	22.17	-0.32	
C	6/21/2019	Body	D1900V2 SN:5d140	4/17/2020	4.060	40.60	40.40	0.50	2.030	20.30	21.30	-4.69	
C	6/21/2019	Head	D1900V2 SN:5d140	4/17/2020	4.120	41.20	39.50	4.30	2.070	20.70	20.60	0.49	
C	6/25/2019	Head	D1900V2 SN:5d163	10/16/2019	4.140	41.40	42.19	-1.87	2.100	21.00	21.73	-3.36	
C	6/25/2019	Body	D1900V2 SN:5d163	10/16/2019	4.100	41.00	42.59	-3.73	2.130	21.30	22.17	-3.92	13,14
C	6/29/2019	Head	D1900V2 SN:5d140	4/17/2020	4.050	40.50	39.50	2.53	2.050	20.50	20.60	-0.49	
C	6/29/2019	Body	D1900V2 SN:5d140	4/17/2020	4.140	41.40	40.40	2.48	2.110	21.10	21.30	-0.94	
C	7/2/2019	Body	D1900V2 SN:5d140	4/17/2020	4.170	41.70	40.40	3.22	2.150	21.50	21.30	0.94	
C	7/2/2019	Head	D1900V2 SN:5d140	4/17/2020	4.300	43.00	39.50	8.86	2.170	21.70	20.60	5.34	15,16
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	
D	6/20/2019	Head	D2600V2 SN:1036	3/22/2020	5.400	54.00	55.90	-3.40	2.430	24.30	24.80	-2.02	
D	6/21/2019	Body	D2300V2 SN:1002	3/22/2020	4.880	48.80	46.80	4.27	2.360	23.60	22.60	4.42	
D	6/21/2019	Head	D2300V2 SN:1002	3/22/2020	5.190	51.90	48.30	7.45	2.470	24.70	23.30	6.01	17,18
D	6/21/2019	Body	D2600V2 SN:1036	3/22/2020	5.590	55.90	53.90	3.71	2.480	24.80	23.90	3.77	
D	6/24/2019	Head	D2300V2 SN:1002	3/22/2020	5.060	50.60	48.30	4.76	2.430	24.30	23.30	4.29	
D	6/24/2019	Head	D2600V2 SN:1036	3/22/2020	5.530	55.30	55.90	-1.07	2.480	24.80	24.80	0.00	
D	6/24/2019	Body	D2300V2 SN:1002	3/22/2020	4.490	44.90	46.80	-4.06	2.150	21.50	22.60	-4.87	
D	6/24/2019	Body	D2600V2 SN:1036	3/22/2020	5.250	52.50	53.90	-2.60	2.340	23.40	23.90	-2.09	
D	6/27/2019	Body	D2300V2 SN:1002	3/22/2020	4.880	48.80	46.80	4.27	2.370	23.70	22.60	4.87	
D	6/27/2019	Body	D2600V2 SN:1036	3/22/2020	5.380	53.80	53.90	-0.19	2.390	23.90	23.90	0.00	
D	6/29/2019	Head	D2300V2 SN:1002	3/22/2020	4.880	48.80	48.30	1.04	2.330	23.30	23.30	0.00	
D	6/29/2019	Head	D2600V2 SN:1036	3/22/2020	5.620	56.20	55.90	0.54	2.520	25.20	24.80	1.61	
D	7/1/2019	Body	D2300V2 SN:1002	3/22/2020	4.620	46.20	46.80	-1.28	2.220	22.20	22.60	-1.77	
D	7/1/2019	Body	D2600V2 SN:1036	3/22/2020	5.220	52.20	53.90	-3.15	2.350	23.50	23.90	-1.67	
D	7/5/2019	Head	D2600V2 SN:1036	3/22/2020	5.370	53.70	55.90	-3.94	2.400	24.00	24.80	-3.23	
D	7/5/2019	Body	D2600V2 SN:1036	3/22/2020	5.150	51.50	53.90	-4.45	2.300	23.00	23.90	-3.77	
D	7/5/2019	Head	D2300V2 SN:1002	3/22/2020	4.940	49.40	48.30	2.28	2.350	23.50	23.30	0.86	
D	7/5/2019	Body	D2300V2 SN:1002	3/22/2020	4.550	45.50	46.80	-2.78	2.200	22.00	22.60	-2.65	
D	7/9/2019	Head	D2600V2 SN:1036	3/22/2020	5.750	57.50	55.90	2.86	2.570	25.70	24.80	3.63	
D	7/9/2019	Body	D2600V2 SN:1036	3/22/2020	5.220	52.20	53.90	-3.15	2.350	23.50	23.90	-1.67	
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	19,20

System Check Results (Continued):

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	6/17/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	6.980	69.80	70.70	-1.27	1.960	19.60	19.70	-0.51	
E	6/17/2019	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	21,22
E	6/20/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.460	74.60	80.80	-7.67	2.140	21.40	23.00	-6.96	
E	6/20/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	6.980	69.80	70.70	-1.27	1.940	19.40	19.70	-1.52	
E	6/24/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.390	73.90	80.80	-8.54	2.110	21.10	23.00	-8.26	
E	6/24/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.180	71.80	70.70	1.56	2.010	20.10	19.70	2.03	
E	6/24/2019	Body	D2450V2 SN:899	3/22/2020	4.860	48.60	50.00	-2.80	2.270	22.70	23.50	-3.40	
E	6/28/2019	Body	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.320	73.20	70.70	3.54	2.040	20.40	19.70	3.55	
E	6/28/2019	Head	D5GHzV2 SN:1168 (5.75 GHz)	11/30/2019	7.530	75.30	80.80	-6.81	2.160	21.60	23.00	-6.09	
E	6/29/2019	Head	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	7.690	76.90	81.70	-5.88	2.200	22.00	23.40	-5.98	
E	6/29/2019	Body	D5GHzV2 SN:1168 (5.25 GHz)	11/30/2019	6.960	69.60	71.20	-2.25	1.950	19.50	19.90	-2.01	
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	
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	23,24
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	7/30/2019	Body	D2600V2 SN:1036	3/22/2020	5.660	56.60	53.90	5.01	2.530	25.30	23.90	5.86	25,26
F	6/17/2019	Body	D2450V2 SN:899	3/22/2020	5.330	53.30	50.00	6.60	2.440	24.40	23.50	3.83	
F	6/17/2019	Head	D2450V2 SN:899	3/22/2020	5.480	54.80	51.60	6.20	2.500	25.00	24.10	3.73	
F	6/20/2019	Head	D2450V2 SN:899	3/22/2020	5.590	55.90	51.60	8.33	2.540	25.40	24.10	5.39	
F	6/20/2019	Body	D2450V2 SN:899	3/22/2020	5.350	53.50	50.00	7.00	2.450	24.50	23.50	4.26	
F	6/24/2019	Head	D2450V2 SN:899	3/22/2020	5.170	51.70	51.60	0.19	2.360	23.60	24.10	-2.07	
F	6/24/2019	Body	D2450V2 SN:899	3/22/2020	5.450	54.50	50.00	9.00	2.510	25.10	23.50	6.81	27,28
F	6/28/2019	Body	D2450V2 SN:899	3/22/2020	5.250	52.50	50.00	5.00	2.450	24.50	23.50	4.26	
F	6/28/2019	Head	D2450V2 SN:899	3/22/2020	5.320	53.20	51.60	3.10	2.440	24.40	24.10	1.24	
F	7/1/2019	Head	D2450V2 SN:899	3/22/2020	5.590	55.90	51.60	8.33	2.550	25.50	24.10	5.81	
F	7/1/2019	Body	D2450V2 SN:899	3/22/2020	5.200	52.00	50.00	4.00	2.390	23.90	23.50	1.70	
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	
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	7/30/2019	Body	D2600V2 SN:1036	3/22/2020	5.580	55.80	53.90	3.53	2.390	23.90	23.90	0.00	29,30

System Check Results (Continued):

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	6/17/2019	Head	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.540	75.40	81.70	-7.71	2.140	21.40	23.40	-8.55	
G	6/17/2019	Body	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.260	72.60	71.20	1.97	2.060	20.60	19.90	3.52	
G	6/20/2019	Head	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.360	73.60	81.70	-9.91	2.110	21.10	23.40	-9.83	31,32
G	6/20/2019	Body	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.520	75.20	71.20	5.62	2.130	21.30	19.90	7.04	
G	6/24/2019	Head	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.380	73.80	81.70	-9.67	2.120	21.20	23.40	-9.40	
G	6/24/2019	Body	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.440	74.40	71.20	4.49	2.110	21.10	19.90	6.03	
G	6/26/2019	Body	D2600V2 SN:1036	3/22/2020	5.030	50.30	53.90	-6.68	2.190	21.90	23.90	-8.37	33,34
G	7/1/2019	Body	D2600V2 SN:1036	3/22/2020	5.300	53.00	53.90	-1.67	2.340	23.40	23.90	-2.09	
G	7/1/2019	Head	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.970	79.70	81.70	-2.45	2.280	22.80	23.40	-2.56	
G	7/1/2019	Body	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.320	73.20	71.20	2.81	2.090	20.90	19.90	5.03	
G	7/3/2019	Body	D1900V2 SN:5d140	4/17/2020	4.010	40.10	40.40	-0.74	2.100	21.00	21.30	-1.41	35,36
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	37,38
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	39,40
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	
H	6/16/2019	Body	D5GHZV2 SN:1168 (5.60 GHz)	11/30/2019	7.540	75.40	76.20	-1.05	2.130	21.30	21.20	0.47	
H	6/17/2019	Head	D5GHZV2 SN:1168 (5.60 GHz)	11/30/2019	8.780	87.80	87.00	0.92	2.470	24.70	24.70	0.00	
H	6/20/2019	Head	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	8.320	83.20	82.70	0.60	2.340	23.40	23.80	-1.68	
H	6/20/2019	Body	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	7.840	78.40	79.30	-1.13	2.200	22.00	22.30	-1.35	
H	6/24/2019	Head	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	8.000	80.00	82.70	-3.26	2.280	22.80	23.80	-4.20	
H	6/24/2019	Body	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	8.170	81.70	79.30	3.03	2.290	22.90	22.30	2.69	
H	6/25/2019	Head	D2450V2 SN:899	3/22/2020	5.000	50.00	51.60	-3.10	2.320	23.20	24.10	-3.73	41,42
H	6/28/2019	Body	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	7.900	79.00	79.30	-0.38	2.220	22.20	22.30	-0.45	
H	6/28/2019	Head	D5GHZV2 SN:1003 (5.60 GHz)	2/19/2020	8.620	86.20	82.70	4.23	2.430	24.30	23.80	2.10	
H	6/29/2019	Body	D5GHZV2 SN:1168 (5.25 GHz)	11/30/2019	7.120	71.20	71.20	0.00	2.040	20.40	19.90	2.51	
H	6/30/2019	Head	D1900V2 SN:5d140	4/17/2020	4.170	41.70	39.50	5.57	2.140	21.40	20.60	3.88	43,44
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	45,46
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	47,48
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	

System Check Results (Continued):

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
6	7/2/2019	Head	D3500V2 SN:1011	5/13/2020	6.600	66.00	64.50	2.33	2.510	25.10	24.30	3.29	
6	7/2/2019	Body	D3500V2 SN:1011	5/13/2020	6.580	65.80	66.00	-0.30	2.320	23.20	24.40	-4.92	
6	7/2/2019	Head	D3700V2 SN:1039	6/12/2020	6.850	68.50	66.50	3.01	2.540	25.40	24.20	4.96	
6	7/2/2019	Body	D3700V2 SN:1039	6/12/2020	6.030	60.30	62.90	-4.13	2.070	20.70	22.50	-8.00	
6	7/6/2019	Head	D3700V2 SN:1039	6/12/2020	6.070	60.70	66.50	-8.72	2.240	22.40	24.20	-7.44	49,50
6	7/6/2019	Body	D3700V2 SN:1039	6/12/2020	5.980	59.80	62.90	-4.93	2.100	21.00	22.50	-6.67	
6	7/6/2019	Head	D3500V2 SN:1011	5/13/2020	6.180	61.80	64.50	-4.19	2.340	23.40	24.30	-3.70	
6	7/6/2019	Body	D3500V2 SN:1011	5/13/2020	6.300	63.00	66.00	-4.55	2.280	22.80	24.40	-6.56	
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	51,52
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	
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	
7	6/14/2019	Head	D835V2 SN:4d002	11/28/2019	0.980	9.80	9.87	-0.71	0.638	6.38	6.36	0.31	
7	6/14/2019	Body	D835V2 SN:4d002	11/28/2019	1.020	10.20	10.07	1.29	0.662	6.62	6.56	0.91	
7	6/18/2019	Body	D835V2 SN:4d002	11/28/2019	1.100	11.00	10.07	9.24	0.715	7.15	6.56	8.99	53,54
7	6/19/2019	Head	D835V2 SN:4d002	11/28/2019	0.997	9.97	9.87	1.01	0.650	6.50	6.36	2.20	
7	6/21/2019	Head	D2600V2 SN:1036	3/22/2020	5.790	57.90	55.90	3.58	2.600	26.00	24.80	4.84	
7	6/25/2019	Head	D835V2 SN:4d002	11/28/2019	1.000	10.00	9.87	1.32	0.652	6.52	6.36	2.52	
7	6/25/2019	Body	D835V2 SN:4d002	11/28/2019	1.020	10.20	10.07	1.29	0.657	6.57	6.56	0.15	
7	6/27/2019	Body	D2600V2 SN:1006	10/16/2019	5.490	54.90	58.52	-6.19	2.400	24.00	26.15	-8.22	55,56
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	57,58
7	7/26/2019	Head	D835V2 SN:4d002	11/28/2019	1.010	10.10	9.87	2.33	0.655	6.55	6.36	2.99	
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	
9	6/16/2019	Head	D835V2 SN:4d117	5/15/2020	0.924	9.24	9.50	-2.74	0.611	6.11	6.17	-0.97	59,60
9	6/24/2019	Head	D3500V2 SN:1011	5/13/2020	6.820	68.20	64.50	5.74	2.650	26.50	24.30	9.05	61,62
9	6/24/2019	Body	D3500V2 SN:1011	5/13/2020	6.250	62.50	66.00	-5.30	2.370	23.70	24.40	-2.87	
9	6/24/2019	Head	D3700V2 SN:1039	6/12/2020	6.460	64.60	66.50	-2.86	2.410	24.10	24.20	-0.41	
9	6/24/2019	Body	D3700V2 SN:1039	6/12/2020	5.850	58.50	62.90	-7.00	2.170	21.70	22.50	-3.56	63,64
9	6/28/2019	Head	D750V3 SN:1071	11/28/2019	0.827	8.27	8.32	-0.60	0.546	5.46	5.45	0.18	
9	6/28/2019	Body	D750V3 SN:1071	11/28/2019	0.915	9.15	8.63	6.03	0.610	6.10	5.65	7.96	65,66
9	6/28/2019	Head	D2600V2 SN:1006	10/16/2019	5.470	54.70	59.31	-7.77	2.460	24.60	26.43	-6.92	67,68
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	69,70
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	

Additional SAR tested from 8/9/2019-8/17/2019

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
F	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	71,72
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	73,74
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	

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 GSMK 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	30.75	29.25	28.50	32.00	28.75	28.00	29.00
	GPRS 2 slots	30.75	27.75	26.50	25.50	31.00	25.75	25.00	26.00
	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	25.75	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	32.40	23.37	33.25	24.22	32.40	23.37	33.25	24.22
			190	836.6	32.37	23.34			32.37	23.34		
			251	848.8	32.42	23.39			32.42	23.39		
		2	128	824.2	32.00	25.98	32.25	26.23	32.00	25.98	32.25	26.23
			190	836.6	32.00	25.98			32.00	25.98		
			251	848.8	32.00	25.98			32.00	25.98		
EDGE (8PSK)	MCS5	1	128	824.2	27.66	18.63	27.75	18.72	27.66	18.63	27.75	18.72
			190	836.6	27.55	18.52			27.55	18.52		
			251	848.8	27.46	18.43			27.46	18.43		
		2	128	824.2	26.63	20.61	26.75	20.73	26.63	20.61	26.75	20.73
			190	836.6	26.46	20.44			26.46	20.44		
			251	848.8	26.49	20.47			26.49	20.47		

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 limit.

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	31.12	22.09	31.75	22.72	31.12	22.09	31.75	22.72
			190	836.6	31.12	22.09			31.12	22.09		
			251	848.8	31.14	22.11			31.14	22.11		
		2	128	824.2	30.50	24.48	30.75	24.73	30.50	24.48	30.75	24.73
			190	836.6	30.50	24.48			30.50	24.48		
			251	848.8	30.50	24.48			30.50	24.48		
EDGE (8PSK)	MCS5	1	128	824.2	25.62	16.59	25.75	16.72	25.62	16.59	25.75	16.72
			190	836.6	25.58	16.55			25.58	16.55		
			251	848.8	25.68	16.65			25.68	16.65		
		2	128	824.2	23.96	17.94	24.75	18.73	23.96	17.94	24.75	18.73
			190	836.6	24.00	17.98			24.00	17.98		
			251	848.8	24.07	18.05			24.07	18.05		

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 limit.

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	30.51	21.48	31.75	22.72	30.48	21.45	30.75	21.72
			661	1880.0	30.30	21.27			30.30	21.27		
			810	1909.8	30.30	21.27			30.69	21.66		
		2	512	1850.2	30.48	24.46	30.75	24.73	27.75	21.73	27.75	21.73
			661	1880.0	30.32	24.30			27.60	21.58		
			810	1909.8	30.30	24.28			27.50	21.48		
EDGE (8PSK)	MCS5	1	512	1850.2	26.72	17.69	26.75	17.72	26.13	17.10	26.75	17.72
			661	1880.0	26.54	17.51			26.00	16.97		
			810	1909.8	26.37	17.34			26.66	17.63		
		2	512	1850.2	25.62	19.60	25.75	19.73	25.62	19.60	25.75	19.73
			661	1880.0	25.39	19.37			25.28	19.26		
			810	1909.8	25.30	19.28			25.38	19.36		

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 limit.

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	27.93	18.90	29.25	20.22	28.17	19.14	28.50	19.47
			661	1880.0	27.84	18.81			28.32	19.29		
			810	1909.8	27.78	18.75			28.27	19.24		
		2	512	1850.2	26.20	20.18	26.50	20.48	25.40	19.38	25.50	19.48
			661	1880.0	26.20	20.18			25.30	19.28		
			810	1909.8	26.20	20.18			25.00	18.98		
EDGE (8PSK)	MCS5	1	512	1850.2	24.24	15.21	24.25	15.22	24.07	15.04	24.25	15.22
			661	1880.0	24.25	15.22			24.20	15.17		
			810	1909.8	24.15	15.12			24.15	15.12		
		2	512	1850.2	23.18	17.16	23.25	17.23	23.21	17.19	23.25	17.23
			661	1880.0	23.22	17.20			23.13	17.11		
			810	1909.8	23.16	17.14			23.05	17.03		

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 limit.

GSM1900 Measured Results (ANT3)

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	31.48	22.45	32.00	22.97	28.16	19.13	28.75	19.72
			661	1880.0	31.43	22.40			28.21	19.18		
			810	1909.8	31.24	22.21			28.06	19.03		
		2	512	1850.2	30.72	24.70	31.00	24.98	25.30	19.28	25.75	19.73
			661	1880.0	30.61	24.59			25.40	19.38		
			810	1909.8	30.60	24.58			25.40	19.38		
EDGE (8PSK)	MCS5	1	512	1850.2	26.90	17.87	27.00	17.97	26.03	17.00	27.00	17.97
			661	1880.0	26.88	17.85			26.00	16.97		
			810	1909.8	27.00	17.97			26.07	17.04		
		2	512	1850.2	25.54	19.52	26.00	19.98	25.22	19.20	25.75	19.73
			661	1880.0	25.32	19.30			25.08	19.06		
			810	1909.8	25.25	19.23			25.47	19.45		

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 limit.

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	27.55	18.52	28.00	18.97	28.77	19.74	29.00	19.97
			661	1880.0	27.60	18.57			28.59	19.56		
			810	1909.8	27.55	18.52			28.60	19.57		
		2	512	1850.2	24.60	18.58	25.00	18.98	25.80	19.78	26.00	19.98
			661	1880.0	24.80	18.78			25.80	19.78		
			810	1909.8	24.90	18.88			25.80	19.78		
EDGE (8PSK)	MCS5	1	512	1850.2	24.69	15.66	25.00	15.97	24.79	15.76	25.00	15.97
			661	1880.0	24.68	15.65			24.68	15.65		
			810	1909.8	24.66	15.63			24.60	15.57		
		2	512	1850.2	23.69	17.67	24.00	17.98	23.88	17.86	24.00	17.98
			661	1880.0	23.88	17.86			23.80	17.78		
			810	1909.8	23.70	17.68			23.70	17.68		

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 limit.

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 DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 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	8/15	15/15	64	8/15	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 DPDCH, 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 $\beta_d = 15/15$.

Note 4: 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 5: β_{ES} can not be set directly; it is set by Absolute Grant Value.

Note 6: 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: $\Delta\alpha_{\text{MSK}}$, $\Delta\alpha_{\text{MSK}}$ and $\Delta\alpha_{\text{QPSK}}$ = 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	21.75	20.50	18.50	25.00	19.75	18.75	20.00
	HSDPA	25.70	21.75	20.50	18.50	25.00	19.75	18.75	20.00
	HSUPA	25.70	21.75	20.50	18.50	25.00	19.75	18.75	20.00
	DC-HSDPA	25.70	21.75	20.50	18.50	25.00	19.75	18.75	20.00
	HSPA+	25.70	21.75	20.50	18.50	25.00	19.75	18.75	20.00
W-CDMA Band 4	R99	25.70	18.00	22.00	20.00	25.00	21.75	21.75	23.00
	HSDPA	25.70	18.00	22.00	20.00	25.00	21.75	21.75	23.00
	HSUPA	25.70	18.00	22.00	20.00	25.00	21.75	21.75	23.00
	DC-HSDPA	25.70	18.00	22.00	20.00	25.00	21.75	21.75	23.00
	HSPA+	25.70	18.00	22.00	20.00	25.00	21.75	21.75	23.00
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	25.50	N/A	25.70	21.75	N/A	21.75
		9400	1880.0	25.50			21.75		
		9538	1907.6	25.50			21.75		
HSDPA	Subtest 1	9262	1852.4	25.39	0	25.70	21.49	0	21.75
		9400	1880.0	25.22			21.27		
		9538	1907.6	25.13			21.17		
	Subtest 2	9262	1852.4	25.14	0	25.70	21.47	0	21.75
		9400	1880.0	24.91			21.25		
		9538	1907.6	24.83			21.14		
	Subtest 3	9262	1852.4	24.86	0.5	25.20	21.11	0.5	21.25
		9400	1880.0	24.70			21.25		
		9538	1907.6	24.59			21.13		
	Subtest 4	9262	1852.4	24.61	0.5	25.20	21.18	0.5	21.25
		9400	1880.0	24.44			21.17		
		9538	1907.6	24.34			21.14		
HSPA	Subtest 1	9262	1852.4	24.73	0	25.70	21.41	0	21.75
		9400	1880.0	24.75			21.20		
		9538	1907.6	24.75			21.14		
	Subtest 2	9262	1852.4	23.07	2	23.70	19.41	2	19.75
		9400	1880.0	22.91			19.23		
		9538	1907.6	22.81			19.13		
	Subtest 3	9262	1852.4	23.79	1	24.70	20.32	1	20.75
		9400	1880.0	23.83			20.10		
		9538	1907.6	23.86			20.01		
	Subtest 4	9262	1852.4	23.35	2	23.70	19.37	2	19.75
		9400	1880.0	23.17			19.20		
		9538	1907.6	23.05			19.13		
	Subtest 5	9262	1852.4	24.87	0	25.70	21.45	0	21.75
		9400	1880.0	24.71			21.21		
		9538	1907.6	24.71			21.14		
DC-HSDPA	Subtest 1	9262	1852.4	25.45	0	25.70	21.48	0	21.75
		9400	1880.0	25.16			21.29		
		9538	1907.6	25.18			21.22		
	Subtest 2	9262	1852.4	25.37	0	25.70	21.44	0	21.75
		9400	1880.0	25.18			21.27		
		9538	1907.6	25.13			21.19		
	Subtest 3	9262	1852.4	25.14	0.5	25.20	20.97	0.5	21.25
		9400	1880.0	24.91			20.77		
		9538	1907.6	24.83			20.66		
	Subtest 4	9262	1852.4	25.11	0.5	25.20	20.94	0.5	21.25
		9400	1880.0	24.93			20.78		
		9538	1907.6	24.83			20.67		
HSPA+	Subtest 1	9262	1852.4	23.10	2.5	23.20	19.11	2.5	19.25
		9400	1880.0	23.02			19.20		
		9538	1907.6	22.91			19.21		

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	20.50	N/A	20.50	18.30	N/A	18.50
		9400	1880.0	20.30			18.10		
		9538	1907.6	20.30			18.00		
HSDPA	Subtest 1	9262	1852.4	20.22	0.00	20.50	18.15	0.00	18.50
		9400	1880.0	20.04			17.96		
		9538	1907.6	19.92			17.87		
	Subtest 2	9262	1852.4	20.17	0.00	20.50	18.11	0.00	18.50
		9400	1880.0	20.03			17.97		
		9538	1907.6	19.90			17.75		
	Subtest 3	9262	1852.4	19.92	0.50	20.00	17.90	0.50	18.00
		9400	1880.0	19.80			17.95		
		9538	1907.6	19.75			17.72		
	Subtest 4	9262	1852.4	19.55	0.50	20.00	17.93	0.50	18.00
		9400	1880.0	19.96			17.96		
		9538	1907.6	19.78			17.69		
HSPA	Subtest 1	9262	1852.4	20.16	0.00	20.50	17.97	0.00	18.50
		9400	1880.0	19.98			17.83		
		9538	1907.6	19.83			17.66		
	Subtest 2	9262	1852.4	18.46	2.00	18.50	16.40	2.00	16.50
		9400	1880.0	18.35			16.50		
		9538	1907.6	18.16			16.30		
	Subtest 3	9262	1852.4	18.84	1.00	19.50	16.68	1.00	17.50
		9400	1880.0	18.69			16.55		
		9538	1907.6	18.48			16.54		
	Subtest 4	9262	1852.4	18.44	2.00	18.50	16.48	2.00	16.50
		9400	1880.0	18.33			16.28		
		9538	1907.6	18.49			16.48		
	Subtest 5	9262	1852.4	20.17	0.00	20.50	18.14	0.00	18.50
		9400	1880.0	20.05			18.02		
		9538	1907.6	19.79			17.80		
DC-HSDPA	Subtest 1	9262	1852.4	20.16	0.00	20.50	18.11	0.00	18.50
		9400	1880.0	20.06			17.98		
		9538	1907.6	19.87			17.79		
	Subtest 2	9262	1852.4	20.18	0.00	20.50	17.80	0.00	18.50
		9400	1880.0	20.03			17.70		
		9538	1907.6	19.85			17.57		
	Subtest 3	9262	1852.4	19.27	0.50	20.00	17.76	0.50	18.00
		9400	1880.0	19.14			17.62		
		9538	1907.6	19.34			17.40		
	Subtest 4	9262	1852.4	19.26	0.50	20.00	17.99	0.50	18.00
		9400	1880.0	19.11			17.88		
		9538	1907.6	19.32			17.81		
HSPA+	Subtest 1	9262	1852.4	17.23	2.50	18.00	15.22	2.50	16.00
		9400	1880.0	17.10			15.24		
		9538	1907.6	17.27			15.22		

W-CDMA Band II Measured Results (ANT3)

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	24.52	N/A	25.00	19.58	N/A	19.75
		9400	1880.0	24.90			19.50		
		9538	1907.6	24.53			19.36		
HSDPA	Subtest 1	9262	1852.4	24.79	0	25.00	19.58	0	19.75
		9400	1880.0	24.68			19.45		
		9538	1907.6	24.62			19.40		
	Subtest 2	9262	1852.4	24.48	0	25.00	19.53	0	19.75
		9400	1880.0	24.37			19.42		
		9538	1907.6	24.34			19.31		
	Subtest 3	9262	1852.4	24.26	0.5	24.50	19.01	0.5	19.25
		9400	1880.0	24.10			19.20		
		9538	1907.6	24.03			19.02		
	Subtest 4	9262	1852.4	23.97	0.5	24.50	19.00	0.5	19.25
		9400	1880.0	23.86			19.22		
		9538	1907.6	23.81			19.10		
HSUPA	Subtest 1	9262	1852.4	24.27	0	25.00	19.37	0	19.75
		9400	1880.0	24.16			19.21		
		9538	1907.6	24.11			19.09		
	Subtest 2	9262	1852.4	22.42	2	23.00	17.53	2	17.75
		9400	1880.0	22.35			17.43		
		9538	1907.6	22.24			17.21		
	Subtest 3	9262	1852.4	23.34	1	24.00	18.42	1	18.75
		9400	1880.0	23.21			18.25		
		9538	1907.6	23.14			18.15		
	Subtest 4	9262	1852.4	22.73	2	23.00	17.54	2	17.75
		9400	1880.0	22.61			17.42		
		9538	1907.6	22.56			17.23		
	Subtest 5	9262	1852.4	24.22	0	25.00	19.55	0	19.75
		9400	1880.0	24.13			19.45		
		9538	1907.6	24.06			19.34		
DC-HSDPA	Subtest 1	9262	1852.4	24.78	0	25.00	19.53	0	19.75
		9400	1880.0	24.62			19.48		
		9538	1907.6	24.63			19.35		
	Subtest 2	9262	1852.4	24.78	0	25.00	19.55	0	19.75
		9400	1880.0	24.62			19.41		
		9538	1907.6	24.59			19.34		
	Subtest 3	9262	1852.4	24.41	0.5	24.50	18.53	0.5	19.25
		9400	1880.0	24.36			18.48		
		9538	1907.6	24.32			18.35		
	Subtest 4	9262	1852.4	24.40	0.5	24.50	18.55	0.5	19.25
		9400	1880.0	24.34			18.41		
		9538	1907.6	24.30			18.34		
HSPA+	Subtest 1	9262	1852.4	21.82	2.5	22.50	16.58	2.5	17.25
		9400	1880.0	21.65			16.48		
		9538	1907.6	21.62			16.36		

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	18.41	N/A	18.75	19.50	N/A	20.00
		9400	1880.0	18.38			19.70		
		9538	1907.6	18.31			19.60		
HSDPA	Subtest 1	9262	1852.4	18.37	0	18.75	19.68	0	20.00
		9400	1880.0	18.35			19.64		
		9538	1907.6	18.34			19.70		
	Subtest 2	9262	1852.4	18.33	0	18.75	19.63	0	20.00
		9400	1880.0	18.31			19.64		
		9538	1907.6	18.25			19.66		
	Subtest 3	9262	1852.4	18.09	0.5	18.25	19.22	0.5	19.50
		9400	1880.0	18.14			19.28		
		9538	1907.6	18.08			19.28		
	Subtest 4	9262	1852.4	18.13	0.5	18.25	19.21	0.5	19.50
		9400	1880.0	18.11			19.29		
		9538	1907.6	18.06			19.24		
HSUPA	Subtest 1	9262	1852.4	18.29	0	18.75	19.66	0	20.00
		9400	1880.0	18.33			19.69		
		9538	1907.6	18.28			19.61		
	Subtest 2	9262	1852.4	16.35	2	16.75	17.73	2	18.00
		9400	1880.0	16.31			17.83		
		9538	1907.6	16.26			17.77		
	Subtest 3	9262	1852.4	17.34	1	17.75	18.69	1	19.00
		9400	1880.0	17.30			18.80		
		9538	1907.6	17.25			18.77		
	Subtest 4	9262	1852.4	16.32	2	16.75	17.72	2	18.00
		9400	1880.0	16.32			17.85		
		9538	1907.6	16.26			17.72		
	Subtest 5	9262	1852.4	18.35	0	18.75	19.64	0	20.00
		9400	1880.0	18.32			19.64		
		9538	1907.6	18.32			19.69		
DC-HSDPA	Subtest 1	9262	1852.4	18.34	0	18.75	19.64	0	20.00
		9400	1880.0	18.32			19.69		
		9538	1907.6	18.44			19.67		
	Subtest 2	9262	1852.4	18.39	0	18.75	19.69	0	20.00
		9400	1880.0	18.36			19.64		
		9538	1907.6	18.35			19.66		
	Subtest 3	9262	1852.4	18.25	0.5	18.25	19.33	0.5	19.50
		9400	1880.0	18.00			19.41		
		9538	1907.6	18.18			19.40		
	Subtest 4	9262	1852.4	18.21	0.5	18.25	19.31	0.5	19.50
		9400	1880.0	18.01			19.44		
		9538	1907.6	18.23			19.38		
HSPA+	Subtest 1	9262	1852.4	16.11	2.5	16.25	16.84	2.5	17.50
		9400	1880.0	16.08			16.89		
		9538	1907.6	16.01			16.84		

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	25.34	N/A	25.70	18.00	N/A	18.00
		1413	1732.6	25.25			18.00		
		1513	1752.6	25.30			18.00		
HSDPA	Subtest 1	1312	1712.4	25.15	0	25.70	17.59	0	18.00
		1413	1732.6	25.27			17.80		
		1513	1752.6	25.33			17.82		
	Subtest 2	1312	1712.4	24.89	0	25.70	17.65	0	18.00
		1413	1732.6	25.08			17.79		
		1513	1752.6	25.09			17.81		
	Subtest 3	1312	1712.4	24.61	0.5	25.20	17.06	0.5	17.50
		1413	1732.6	24.83			17.18		
		1513	1752.6	24.83			17.19		
	Subtest 4	1312	1712.4	24.34	0.5	25.20	17.06	0.5	17.50
		1413	1732.6	24.58			17.20		
		1513	1752.6	24.55			17.21		
HSUPA	Subtest 1	1312	1712.4	25.15	0	25.70	17.66	0	18.00
		1413	1732.6	25.27			17.76		
		1513	1752.6	25.33			17.79		
	Subtest 2	1312	1712.4	23.31	2	23.70	15.89	2	16.00
		1413	1732.6	23.56			15.92		
		1513	1752.6	23.52			15.99		
	Subtest 3	1312	1712.4	23.92	1	24.70	16.49	1	17.00
		1413	1732.6	24.17			16.61		
		1513	1752.6	24.14			16.57		
	Subtest 4	1312	1712.4	23.06	2	23.70	15.88	2	16.00
		1413	1732.6	23.32			15.99		
		1513	1752.6	23.26			15.96		
	Subtest 5	1312	1712.4	24.89	0	25.70	17.70	0	18.00
		1413	1732.6	24.81			17.73		
		1513	1752.6	24.79			17.76		
DC-HSDPA	Subtest 1	1312	1712.4	25.11	0	25.70	17.62	0	18.00
		1413	1732.6	25.30			17.74		
		1513	1752.6	25.29			17.76		
	Subtest 2	1312	1712.4	25.11	0	25.70	17.64	0	18.00
		1413	1732.6	25.29			17.73		
		1513	1752.6	25.30			17.75		
	Subtest 3	1312	1712.4	24.87	0.5	25.20	17.06	0.5	17.50
		1413	1732.6	25.04			17.15		
		1513	1752.6	25.06			17.20		
	Subtest 4	1312	1712.4	24.85	0.5	25.20	17.05	0.5	17.50
		1413	1732.6	25.06			17.15		
		1513	1752.6	25.05			17.13		
HSPA+	Subtest 1	1312	1712.4	23.14	2.5	23.20	15.28	2.5	15.50
		1413	1732.6	23.15			15.37		
		1513	1752.6	23.20			15.39		

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	21.94	N/A	22.00	19.95	N/A	20.00
		1413	1732.6	21.92			19.85		
		1513	1752.6	22.00			19.89		
HSDPA	Subtest 1	1312	1712.4	21.88	0.00	22.00	19.78	0.00	20.00
		1413	1732.6	21.85			19.81		
		1513	1752.6	21.90			19.77		
	Subtest 2	1312	1712.4	21.88	0.00	22.00	19.81	0.00	20.00
		1413	1732.6	21.86			19.80		
		1513	1752.6	21.85			19.76		
	Subtest 3	1312	1712.4	21.40	0.50	21.50	19.30	0.50	19.50
		1413	1732.6	21.44			19.31		
		1513	1752.6	21.38			19.30		
	Subtest 4	1312	1712.4	21.43	0.50	21.50	19.23	0.50	19.50
		1413	1732.6	21.41			19.33		
		1513	1752.6	21.35			19.25		
HSUPA	Subtest 1	1312	1712.4	21.90	0.00	22.00	19.77	0.00	20.00
		1413	1732.6	21.83			19.73		
		1513	1752.6	21.84			19.73		
	Subtest 2	1312	1712.4	19.87	2.00	20.00	17.79	2.00	18.00
		1413	1732.6	19.87			17.79		
		1513	1752.6	19.91			17.79		
	Subtest 3	1312	1712.4	20.61	1.00	21.00	18.81	1.00	19.00
		1413	1732.6	20.62			18.80		
		1513	1752.6	20.61			18.83		
	Subtest 4	1312	1712.4	19.83	2.00	20.00	17.43	2.00	18.00
		1413	1732.6	19.89			17.49		
		1513	1752.6	19.84			17.44		
	Subtest 5	1312	1712.4	21.62	0.00	22.00	19.80	0.00	20.00
		1413	1732.6	21.62			19.78		
		1513	1752.6	21.65			19.77		
DC-HSDPA	Subtest 1	1312	1712.4	21.90	0.00	22.00	19.72	0.00	20.00
		1413	1732.6	21.87			19.72		
		1513	1752.6	21.84			19.76		
	Subtest 2	1312	1712.4	21.84	0.00	22.00	19.77	0.00	20.00
		1413	1732.6	21.80			19.73		
		1513	1752.6	21.86			19.74		
	Subtest 3	1312	1712.4	21.47	0.50	21.50	19.27	0.50	19.50
		1413	1732.6	21.44			19.26		
		1513	1752.6	21.47			19.25		
	Subtest 4	1312	1712.4	21.46	0.50	21.50	19.23	0.50	19.50
		1413	1732.6	21.42			19.27		
		1513	1752.6	21.47			19.27		
HSPA+	Subtest 1	1312	1712.4	18.94	2.50	19.50	16.95	2.50	17.50
		1413	1732.6	18.92			16.85		
		1513	1752.6	18.88			16.89		

W-CDMA Band IV Measured Results (ANT3)

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	24.97	N/A	25.00	21.25	N/A	21.75
		1413	1732.6	24.90			21.30		
		1513	1752.6	24.93			21.40		
HSDPA	Subtest 1	1312	1712.4	24.94	0	25.00	21.14	0	21.75
		1413	1732.6	24.88			21.00		
		1513	1752.6	24.91			21.01		
	Subtest 2	1312	1712.4	24.75	0	25.00	21.07	0	21.75
		1413	1732.6	24.60			21.00		
		1513	1752.6	24.66			21.02		
	Subtest 3	1312	1712.4	24.50	0.5	24.50	21.09	0.5	21.25
		1413	1732.6	24.37			20.93		
		1513	1752.6	24.39			21.03		
	Subtest 4	1312	1712.4	24.21	0.5	24.50	21.11	0.5	21.25
		1413	1732.6	24.05			20.93		
		1513	1752.6	24.16			21.05		
HSUPA	Subtest 1	1312	1712.4	24.52	0	25.00	21.04	0	21.75
		1413	1732.6	24.54			20.93		
		1513	1752.6	24.51			20.97		
	Subtest 2	1312	1712.4	22.66	2	23.00	19.69	2	19.75
		1413	1732.6	22.54			19.56		
		1513	1752.6	22.65			19.60		
	Subtest 3	1312	1712.4	23.57	1	24.00	20.06	1	20.75
		1413	1732.6	23.39			19.91		
		1513	1752.6	23.52			19.98		
	Subtest 4	1312	1712.4	22.95	2	23.00	19.57	2	19.75
		1413	1732.6	22.78			19.46		
		1513	1752.6	22.91			19.47		
	Subtest 5	1312	1712.4	24.50	0	25.00	21.09	0	21.75
		1413	1732.6	24.28			20.93		
		1513	1752.6	24.39			21.00		
DC-HSDPA	Subtest 1	1312	1712.4	24.82	0	25.00	21.08	0	21.75
		1413	1732.6	24.83			20.92		
		1513	1752.6	24.83			21.02		
	Subtest 2	1312	1712.4	24.81	0	25.00	21.11	0	21.75
		1413	1732.6	24.80			20.97		
		1513	1752.6	24.85			21.05		
	Subtest 3	1312	1712.4	24.34	0.5	24.50	21.11	0.5	21.25
		1413	1732.6	24.37			20.96		
		1513	1752.6	24.43			21.01		
	Subtest 4	1312	1712.4	24.31	0.5	24.50	21.11	0.5	21.25
		1413	1732.6	24.37			20.95		
		1513	1752.6	24.39			21.04		
HSPA+	Subtest 1	1312	1712.4	21.87	2.5	22.50	19.10	2.5	19.25
		1413	1732.6	21.90			19.00		
		1513	1752.6	21.93			19.02		

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	20.89	N/A	21.00	21.75	N/A	22.25
		1413	1732.6	20.95			21.85		
		1513	1752.6	21.00			21.95		
HSDPA	Subtest 1	1312	1712.4	20.88	0	21.00	22.01	0	22.25
		1413	1732.6	20.67			22.09		
		1513	1752.6	20.69			22.23		
	Subtest 2	1312	1712.4	20.67	0	21.00	22.21	0	22.25
		1413	1732.6	20.43			21.89		
		1513	1752.6	20.52			22.02		
	Subtest 3	1312	1712.4	20.41	0.5	20.50	21.59	0.5	21.75
		1413	1732.6	20.21			21.55		
		1513	1752.6	20.27			21.02		
	Subtest 4	1312	1712.4	20.15	0.5	20.50	21.55	0.5	21.75
		1413	1732.6	19.96			21.59		
		1513	1752.6	19.99			21.53		
HSUPA	Subtest 1	1312	1712.4	20.62	0	21.00	22.06	0	22.25
		1413	1732.6	20.46			22.10		
		1513	1752.6	20.50			22.18		
	Subtest 2	1312	1712.4	18.69	2	19.00	19.58	2	20.25
		1413	1732.6	18.45			19.59		
		1513	1752.6	18.54			19.63		
	Subtest 3	1312	1712.4	19.41	1	20.00	20.81	1	21.25
		1413	1732.6	19.97			20.87		
		1513	1752.6	19.90			21.05		
	Subtest 4	1312	1712.4	18.91	2	19.00	20.08	2	20.25
		1413	1732.6	18.78			20.10		
		1513	1752.6	18.85			20.02		
	Subtest 5	1312	1712.4	20.43	0	21.00	21.55	0	22.25
		1413	1732.6	20.27			21.80		
		1513	1752.6	20.34			22.03		
DC-HSDPA	Subtest 1	1312	1712.4	20.52	0	21.00	22.02	0	22.25
		1413	1732.6	20.54			22.06		
		1513	1752.6	20.58			22.14		
	Subtest 2	1312	1712.4	20.46	0	21.00	22.05	0	22.25
		1413	1732.6	20.50			22.18		
		1513	1752.6	20.58			22.24		
	Subtest 3	1312	1712.4	20.44	0.5	20.50	21.30	0.5	21.75
		1413	1732.6	20.38			21.36		
		1513	1752.6	20.39			21.48		
	Subtest 4	1312	1712.4	20.38	0.5	20.50	21.31	0.5	21.75
		1413	1732.6	20.40			21.33		
		1513	1752.6	20.46			21.53		
HSPA+	Subtest 1	1312	1712.4	18.64	2.5	18.50	20.05	2.5	19.75
		1413	1732.6	18.60			20.04		
		1513	1752.6	18.50			20.32		

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	25.57	N/A	25.70	25.57	N/A	25.70
		4183	836.6	25.60			25.60		
		4233	846.6	25.60			25.60		
HSDPA	Subtest 1	4132	826.4	25.59	0	25.70	25.59	0	25.70
		4183	836.6	25.63			25.63		
		4233	846.6	25.58			25.58		
	Subtest 2	4132	826.4	25.30	0	25.70	25.30	0	25.70
		4183	836.6	25.34			25.34		
		4233	846.6	25.29			25.29		
	Subtest 3	4132	826.4	25.03	0.5	25.20	25.03	0.5	25.20
		4183	836.6	25.08			25.08		
		4233	846.6	25.00			25.00		
	Subtest 4	4132	826.4	24.76	0.5	25.20	24.76	0.5	25.20
		4183	836.6	24.80			24.80		
		4233	846.6	24.72			24.72		
HSUPA	Subtest 1	4132	826.4	25.42	0	25.70	25.42	0	25.70
		4183	836.6	25.44			25.44		
		4233	846.6	25.41			25.41		
	Subtest 2	4132	826.4	22.80	2	23.70	22.80	2	23.70
		4183	836.6	22.81			22.81		
		4233	846.6	22.74			22.74		
	Subtest 3	4132	826.4	23.86	1	24.70	23.86	1	24.70
		4183	836.6	23.84			23.84		
		4233	846.6	23.89			23.89		
	Subtest 4	4132	826.4	23.51	2	23.70	23.51	2	23.70
		4183	836.6	23.45			23.45		
		4233	846.6	23.41			23.41		
	Subtest 5	4132	826.4	25.10	0	25.70	25.10	0	25.70
		4183	836.6	25.10			25.10		
		4233	846.6	24.97			24.97		
DC-HSDPA	Subtest 1	4132	826.4	25.51	0	25.70	25.51	0	25.70
		4183	836.6	25.58			25.58		
		4233	846.6	25.61			25.61		
	Subtest 2	4132	826.4	25.25	0	25.70	25.25	0	25.70
		4183	836.6	25.26			25.26		
		4233	846.6	25.22			25.22		
	Subtest 3	4132	826.4	24.76	0.5	25.20	24.76	0.5	25.20
		4183	836.6	24.77			24.77		
		4233	846.6	24.79			24.79		
	Subtest 4	4132	826.4	24.89	0.5	25.20	24.89	0.5	25.20
		4183	836.6	24.99			24.99		
		4233	846.6	25.01			25.01		
HSPA+	Subtest 1	4132	826.4	23.10	2.5	23.20	23.10	2.5	23.20
		4183	836.6	23.20			23.20		
		4233	846.6	23.00			23.00		

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	24.34	N/A	24.50	24.34	N/A	24.50
		4183	836.6	24.46			24.46		
		4233	846.6	24.49			24.49		
HSDPA	Subtest 1	4132	826.4	24.31	0.00	24.50	24.31	0.00	24.50
		4183	836.6	24.41			24.41		
		4233	846.6	24.45			24.45		
	Subtest 2	4132	826.4	24.23	0.00	24.50	24.23	0.00	24.50
		4183	836.6	24.32			24.32		
		4233	846.6	24.28			24.28		
	Subtest 3	4132	826.4	23.78	0.50	24.00	23.78	0.50	24.00
		4183	836.6	23.88			23.88		
		4233	846.6	23.89			23.89		
	Subtest 4	4132	826.4	23.73	0.50	24.00	23.73	0.50	24.00
		4183	836.6	23.77			23.77		
		4233	846.6	23.75			23.75		
HSUPA	Subtest 1	4132	826.4	23.56	0.00	24.50	23.56	0.00	24.50
		4183	836.6	23.61			23.61		
		4233	846.6	23.68			23.68		
	Subtest 2	4132	826.4	22.21	2.00	22.50	22.21	2.00	22.50
		4183	836.6	22.29			22.29		
		4233	846.6	22.30			22.30		
	Subtest 3	4132	826.4	23.20	1.00	23.50	23.20	1.00	23.50
		4183	836.6	23.25			23.25		
		4233	846.6	23.30			23.30		
	Subtest 4	4132	826.4	22.42	2.00	22.50	22.42	2.00	22.50
		4183	836.6	22.44			22.44		
		4233	846.6	22.46			22.46		
	Subtest 5	4132	826.4	24.04	0.00	24.50	24.04	0.00	24.50
		4183	836.6	24.01			24.01		
		4233	846.6	24.12			24.12		
DC-HSDPA	Subtest 1	4132	826.4	24.06	0.00	24.50	24.06	0.00	24.50
		4183	836.6	24.13			24.13		
		4233	846.6	24.16			24.16		
	Subtest 2	4132	826.4	23.69	0.00	24.50	23.69	0.00	24.50
		4183	836.6	23.80			23.80		
		4233	846.6	23.79			23.79		
	Subtest 3	4132	826.4	23.21	0.50	24.00	23.21	0.50	24.00
		4183	836.6	23.32			23.32		
		4233	846.6	23.38			23.38		
	Subtest 4	4132	826.4	23.25	0.50	24.00	23.25	0.50	24.00
		4183	836.6	23.36			23.36		
		4233	846.6	23.28			23.28		
HSPA+	Subtest 1	4132	826.4	21.34	2.50	22.00	21.34	2.50	22.00
		4183	836.6	21.46			21.46		
		4233	846.6	21.49			21.49		

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	21.75	20.50	18.50				
	1xAdvanced	25.70	21.75	20.50	18.50				
	1xEVDO Rel. 0	25.70	21.75	20.50	18.50				
	1xEVDO Rev. A	25.70	21.75	20.50	18.50				
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	25.56	25.70	25.56	25.70
		384	836.52	25.53		25.53	
		777	848.31	25.45		25.45	
	RC3, SO55 (Loopback)	1013	824.70	25.48		25.48	
		384	836.52	25.44		25.44	
		777	848.31	25.38		25.38	
	RC3, SO32 (+F-SCH)	1013	824.70	25.56		25.56	
		384	836.52	25.53		25.53	
		777	848.31	25.45		25.45	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	25.56	25.70	25.56	25.70
		384	836.52	25.53		25.53	
		777	848.31	25.45		25.45	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.56	25.70	25.56	25.70
		384	836.52	25.53		25.53	
		777	848.31	25.45		25.45	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.56	25.70	25.56	25.70
		384	836.52	25.53		25.53	
		777	848.31	25.45		25.45	

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	24.47	24.5	24.47	24.5
		384	836.52	24.50		24.50	
		777	848.31	24.49		24.49	
	RC3, SO55 (Loopback)	1013	824.70	24.39		24.39	
		384	836.52	24.33		24.33	
		777	848.31	24.49		24.49	
	RC3, SO32 (+F-SCH)	1013	824.70	24.37		24.37	
		384	836.52	24.50		24.50	
		777	848.31	24.48		24.48	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	24.47	24.5	24.47	24.5
		384	836.52	24.43		24.43	
		777	848.31	24.49		24.49	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	24.41	24.5	24.41	24.5
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	24.29	24.5	24.29	24.5
		384	836.52	24.50		24.50	
		777	848.31	24.40		24.40	

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	25.50	25.70	21.13	21.75
		600	1880.00	25.40		21.18	
		1175	1908.75	25.30		21.14	
	RC3, SO55 (Loopback)	25	1851.25	25.33		21.05	
		600	1880.00	25.41		21.16	
		1175	1908.75	25.28		21.08	
	RC3, SO32 (+F-SCH)	25	1851.25	25.50		21.70	
		600	1880.00	25.40		21.60	
		1175	1908.75	25.30		21.60	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	25.32	25.70	21.13	21.75
		600	1880	25.42		21.18	
		1175	1908.75	25.37		21.14	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	25.50	25.70	20.92	21.75
		600	1880.00	25.40		20.97	
		1175	1908.75	25.30		20.88	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	25.50	25.70	20.83	21.75
		600	1880	25.40		20.88	
		1175	1908.75	25.30		20.80	

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	20.50	20.50	18.50	18.50
		600	1880.00	20.25		18.20	
		1175	1908.75	20.00		18.00	
	RC3, SO55 (Loopback)	25	1851.25	20.50		18.50	
		600	1880.00	20.25		18.20	
		1175	1908.75	20.00		18.00	
	RC3, SO32 (+F-SCH)	25	1851.25	20.50		18.50	
		600	1880.00	20.25		18.20	
		1175	1908.75	20.00		18.00	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	20.50	20.50	18.50	18.50
		600	1880	20.20		18.20	
		1175	1908.75	20.00		18.00	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	20.50	20.50	18.50	18.50
		600	1880.00	20.25		18.20	
		1175	1908.75	20.00		18.00	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	20.50	20.50	18.50	18.50
		600	1880	20.25		18.20	
		1175	1908.75	20.00		18.00	

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	25.45	25.70	25.45	25.70
	RC3, SO55 (Loopback)	560	820.00	25.37		25.37	
	RC3, SO32 (+F-SCH)	560	820.00	25.42		25.42	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	560	820.00	25.45	25.70	25.45	25.70
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	25.45	25.70	25.45	25.70
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	25.45	25.70	25.45	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	24.50	24.50	24.50	24.50
	RC3, SO55 (Loopback)	560	820.00	24.50		24.50	
	RC3, SO32 (+F-SCH)	560	820.00	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	560	820.00	24.50	24.50	24.50	24.50
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	24.50	24.50	24.50	24.50
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	24.50	24.50	24.50	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	21.75	20.50	18.50	25.00	19.75	18.75	20.00
LTE Band 4	QPSK	25.70	18.00	22.00	20.00	25.00	21.75	21.00	22.25
LTE Band 5	QPSK	25.70	25.70	24.50	24.50				
LTE Band 7	QPSK	25.70	21.75	18.75	20.50	25.00	21.75	17.00	18.25
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	21.75	20.50	18.50	25.00	19.75	18.75	20.00
LTE Band 26	QPSK	25.70	25.70	24.50	24.50				
LTE Band 30	QPSK	25.70	22.00	21.00	20.50	24.50	20.75	17.50	19.00
LTE Band 41 (PC3)	QPSK	25.70	24.00	20.00	22.75	25.50	25.00	19.25	21.00
LTE Band 41 (PC 2)	QPSK	28.70	24.00	20.00	22.75	28.00	25.00	19.25	21.00
LTE Band 66	QPSK	25.70	18.00	22.00	20.00	25.00	21.75	21.00	22.25
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	24.00	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		24.74		0	25.70		24.74		0	25.70
		1	25		25.20		0	25.70		25.20		0	25.70
		1	49		24.90		0	25.70		24.90		0	25.70
		25	0		23.79		1	24.70		23.79		1	24.70
		25	12		24.20		1	24.70		24.20		1	24.70
		25	25		23.79		1	24.70		23.79		1	24.70
		50	0		24.20		1	24.70		24.20		1	24.70
	16QAM	1	0		24.09		1	24.70		24.09		1	24.70
		1	25		24.06		1	24.70		24.06		1	24.70
		1	49		24.22		1	24.70		24.22		1	24.70
		25	0		22.79		2	23.70		22.79		2	23.70
		25	12		22.75		2	23.70		22.75		2	23.70
		25	25		22.78		2	23.70		22.78		2	23.70
	64QAM	50	0		22.76		2	23.70		22.76		2	23.70
		1	0		23.18		2	23.70		23.18		2	23.70
		1	25		23.21		2	23.70		23.21		2	23.70
		1	49		23.10		2	23.70		23.10		2	23.70
		25	0		22.01		3	22.70		22.01		3	22.70
		25	12		21.99		3	22.70		21.99		3	22.70
		25	25		21.96		3	22.70		21.96		3	22.70
		50	0		21.98		3	22.70		21.98		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	24.77	24.79	24.80	0	25.70	24.77	24.79	24.80	0	25.70
		1	12	24.76	24.72	24.79	0	25.70	24.76	24.72	24.79	0	25.70
		1	24	24.79	24.77	24.78	0	25.70	24.79	24.77	24.78	0	25.70
		12	0	23.78	23.73	23.72	1	24.70	23.78	23.73	23.72	1	24.70
		12	7	23.75	23.71	23.78	1	24.70	23.75	23.71	23.78	1	24.70
		12	13	23.76	23.79	23.75	1	24.70	23.76	23.79	23.75	1	24.70
		25	0	23.78	23.71	23.70	1	24.70	23.78	23.71	23.70	1	24.70
	16QAM	1	0	24.01	24.03	24.30	1	24.70	24.01	24.03	24.30	1	24.70
		1	12	23.99	23.98	24.19	1	24.70	23.99	23.98	24.19	1	24.70
		1	24	24.08	24.05	24.16	1	24.70	24.08	24.05	24.16	1	24.70
		12	0	22.75	22.82	22.94	2	23.70	22.75	22.82	22.94	2	23.70
		12	7	22.78	22.81	22.88	2	23.70	22.78	22.81	22.88	2	23.70
		12	13	22.81	22.84	22.83	2	23.70	22.81	22.84	22.83	2	23.70
		25	0	22.78	22.81	22.85	2	23.70	22.78	22.81	22.85	2	23.70
	64QAM	1	0	23.03	23.20	23.18	2	23.70	23.03	23.20	23.18	2	23.70
		1	12	22.91	23.16	23.23	2	23.70	22.91	23.16	23.23	2	23.70
		1	24	23.05	23.23	23.35	2	23.70	23.05	23.23	23.35	2	23.70
		12	0	21.70	21.83	21.74	3	22.70	21.70	21.83	21.74	3	22.70
		12	7	21.89	21.86	21.75	3	22.70	21.89	21.86	21.75	3	22.70
		12	13	21.88	21.81	21.79	3	22.70	21.88	21.81	21.79	3	22.70
		25	0	21.85	21.84	21.76	3	22.70	21.85	21.84	21.76	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	24.92	24.89	25.01	0	25.70	24.92	24.89	25.01	0	25.70
		1	8	24.96	24.94	25.02	0	25.70	24.96	24.94	25.02	0	25.70
		1	14	24.95	24.87	24.94	0	25.70	24.95	24.87	24.94	0	25.70
		8	0	23.79	23.76	23.82	1	24.70	23.79	23.76	23.82	1	24.70
		8	4	23.78	23.73	23.79	1	24.70	23.78	23.73	23.79	1	24.70
		8	7	23.77	23.73	23.81	1	24.70	23.77	23.73	23.81	1	24.70
		15	0	23.79	23.77	23.84	1	24.70	23.79	23.77	23.84	1	24.70
	16QAM	1	0	23.99	23.94	24.10	1	24.70	23.99	23.94	24.10	1	24.70
		1	8	23.99	23.98	24.05	1	24.70	23.99	23.98	24.05	1	24.70
		1	14	23.97	23.92	23.98	1	24.70	23.97	23.92	23.98	1	24.70
		8	0	22.77	22.73	22.82	2	23.70	22.77	22.73	22.82	2	23.70
		8	4	22.74	22.89	22.78	2	23.70	22.74	22.89	22.78	2	23.70
		8	7	22.79	22.88	22.75	2	23.70	22.79	22.88	22.75	2	23.70
		15	0	22.77	22.75	22.81	2	23.70	22.77	22.75	22.81	2	23.70
	64QAM	1	0	23.00	22.98	23.11	2	23.70	23.00	22.98	23.11	2	23.70
		1	8	22.93	23.11	23.21	2	23.70	22.93	23.11	23.21	2	23.70
		1	14	22.91	23.07	23.18	2	23.70	22.91	23.07	23.18	2	23.70
		8	0	21.86	21.75	21.74	3	22.70	21.86	21.75	21.74	3	22.70
		8	4	21.72	21.74	21.79	3	22.70	21.72	21.74	21.79	3	22.70
		8	7	21.71	21.73	21.81	3	22.70	21.71	21.73	21.81	3	22.70
		15	0	21.76	21.71	21.76	3	22.70	21.76	21.71	21.76	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	24.74	24.73	24.82	0	25.70	24.74	24.73	24.82	0	25.70
		1	3	24.75	24.71	24.82	0	25.70	24.75	24.71	24.82	0	25.70
		1	5	24.74	24.73	24.82	0	25.70	24.74	24.73	24.82	0	25.70
		3	0	24.75	24.84	24.85	0	25.70	24.75	24.84	24.85	0	25.70
		3	1	24.74	24.80	24.84	0	25.70	24.74	24.80	24.84	0	25.70
		3	3	24.76	24.77	24.83	0	25.70	24.76	24.77	24.83	0	25.70
	16QAM	6	0	23.88	23.74	23.83	1	24.70	23.88	23.74	23.83	1	24.70
		1	0	23.94	23.92	24.10	1	24.70	23.94	23.92	24.10	1	24.70
		1	3	23.86	23.86	24.14	1	24.70	23.86	23.86	24.14	1	24.70
		1	5	23.97	23.87	24.13	1	24.70	23.97	23.87	24.13	1	24.70
		3	0	23.90	23.82	23.94	1	24.70	23.90	23.82	23.94	1	24.70
		3	1	23.87	23.86	23.92	1	24.70	23.87	23.86	23.92	1	24.70
	64QAM	3	3	23.88	23.83	23.93	1	24.70	23.88	23.83	23.93	1	24.70
		6	0	22.77	22.72	22.72	2	23.70	22.77	22.72	22.72	2	23.70
		1	0	23.21	23.02	23.06	2	23.70	23.21	23.02	23.06	2	23.70
		1	3	23.20	23.10	23.15	2	23.70	23.20	23.10	23.15	2	23.70
		1	5	23.17	23.04	23.20	2	23.70	23.17	23.04	23.20	2	23.70
		3	0	22.89	22.75	22.94	2	23.70	22.89	22.75	22.94	2	23.70
	64QAM	3	1	22.90	22.73	22.94	2	23.70	22.90	22.73	22.94	2	23.70
		3	3	22.91	22.72	22.93	2	23.70	22.91	22.72	22.93	2	23.70
		6	0	21.71	21.73	21.79	3	22.70	21.71	21.73	21.79	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		24.18		0	24.50		24.18		0	24.50
		1	25		24.30		0	24.50		24.30		0	24.50
		1	49		24.19		0	24.50		24.19		0	24.50
		25	0		23.18		1	23.50		23.18		1	23.50
		25	12		23.30		1	23.50		23.30		1	23.50
		25	25		23.17		1	23.50		23.17		1	23.50
		50	0		23.16		1	23.50		23.16		1	23.50
	16QAM	1	0		23.40		1	23.50		23.40		1	23.50
		1	25		23.48		1	23.50		23.48		1	23.50
		1	49		23.44		1	23.50		23.44		1	23.50
		25	0		22.25		2	22.50		22.25		2	22.50
		25	12		22.15		2	22.50		22.15		2	22.50
		25	25		22.20		2	22.50		22.20		2	22.50
	64QAM	50	0		22.15		2	22.50		22.15		2	22.50
		1	0		22.42		2	22.50		22.42		2	22.50
		1	25		22.40		2	22.50		22.40		2	22.50
		1	49		22.46		2	22.50		22.46		2	22.50
		25	0		21.07		3	21.50		21.07		3	21.50
		25	12		21.02		3	21.50		21.02		3	21.50
		25	25		21.06		3	21.50		21.06		3	21.50
		50	0		21.07		3	21.50		21.07		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	836.5 MHz				826.5 MHz	836.5 MHz		
5 MHz	QPSK	1	0	24.28	24.26	24.15	0	24.50	24.28	24.26	24.15	0	24.50
		1	12	24.22	24.10	24.18	0	24.50	24.22	24.10	24.18	0	24.50
		1	24	24.24	24.17	24.32	0	24.50	24.24	24.17	24.32	0	24.50
		12	0	23.15	23.05	23.05	1	23.50	23.15	23.05	23.05	1	23.50
		12	7	23.15	23.03	23.06	1	23.50	23.15	23.03	23.06	1	23.50
		12	13	23.14	23.02	23.10	1	23.50	23.14	23.02	23.10	1	23.50
		25	0	23.15	23.05	23.09	1	23.50	23.15	23.05	23.09	1	23.50
	16QAM	1	0	23.31	23.44	23.39	1	23.50	23.31	23.44	23.39	1	23.50
		1	12	23.48	23.33	23.49	1	23.50	23.48	23.33	23.49	1	23.50
		1	24	23.48	23.33	23.36	1	23.50	23.48	23.33	23.36	1	23.50
		12	0	22.17	22.11	22.01	2	22.50	22.17	22.11	22.01	2	22.50
		12	7	22.15	22.09	22.00	2	22.50	22.15	22.09	22.00	2	22.50
		12	13	22.14	22.09	22.06	2	22.50	22.14	22.09	22.06	2	22.50
		25	0	22.11	22.11	21.99	2	22.50	22.11	22.11	21.99	2	22.50
	64QAM	1	0	22.49	22.33	22.33	2	22.50	22.49	22.33	22.33	2	22.50
		1	12	22.41	22.23	22.43	2	22.50	22.41	22.23	22.43	2	22.50
		1	24	22.36	22.38	22.41	2	22.50	22.36	22.38	22.41	2	22.50
		12	0	20.99	20.92	21.03	3	21.50	20.99	20.92	21.03	3	21.50
		12	7	21.03	20.88	21.04	3	21.50	21.03	20.88	21.04	3	21.50
		12	13	20.99	20.84	21.07	3	21.50	20.99	20.84	21.07	3	21.50
		25	0	20.98	20.91	21.06	3	21.50	20.98	20.91	21.06	3	21.5
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	24.32	24.10	24.20	0	24.50	24.32	24.10	24.20	0	24.50
		1	8	24.30	24.17	24.27	0	24.50	24.30	24.17	24.27	0	24.50
		1	14	24.23	24.13	24.31	0	24.50	24.23	24.13	24.31	0	24.50
		8	0	23.16	23.00	23.04	1	23.50	23.16	23.00	23.04	1	23.50
		8	4	23.09	22.99	23.06	1	23.50	23.09	22.99	23.06	1	23.50
		8	7	23.11	22.99	23.06	1	23.50	23.11	22.99	23.06	1	23.50
		15	0	23.11	23.03	23.09	1	23.50	23.11	23.03	23.09	1	23.50
	16QAM	1	0	23.43	23.33	23.42	1	23.50	23.43	23.33	23.42	1	23.50
		1	8	23.47	23.46	23.33	1	23.50	23.47	23.46	23.33	1	23.50
		1	14	23.38	23.47	23.33	1	23.50	23.38	23.47	23.33	1	23.50
		8	0	22.16	21.97	21.95	2	22.50	22.16	21.97	21.95	2	22.50
		8	4	22.10	21.97	22.09	2	22.50	22.10	21.97	22.09	2	22.50
		8	7	22.10	21.98	22.10	2	22.50	22.10	21.98	22.10	2	22.50
		15	0	22.05	21.96	22.12	2	22.50	22.05	21.96	22.12	2	22.50
	64QAM	1	0	22.38	22.37	22.36	2	22.50	22.38	22.37	22.36	2	22.50
		1	8	22.43	22.37	22.44	2	22.50	22.43	22.37	22.44	2	22.50
		1	14	22.38	22.26	22.32	2	22.50	22.38	22.26	22.32	2	22.50
		8	0	21.09	20.99	21.00	3	21.50	21.09	20.99	21.00	3	21.50
		8	4	21.05	21.01	21.01	3	21.50	21.05	21.01	21.01	3	21.50
		8	7	21.05	20.97	21.01	3	21.50	21.05	20.97	21.01	3	21.50
		15	0	21.07	20.98	21.00	3	21.50	21.07	20.98	21.00	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	24.36	24.18	24.34	0	24.50	24.36	24.18	24.34	0	24.50
		1	3	24.28	24.18	24.38	0	24.50	24.28	24.18	24.38	0	24.50
		1	5	24.24	24.22	24.38	0	24.50	24.24	24.22	24.38	0	24.50
		3	0	24.19	24.02	24.18	0	24.50	24.19	24.02	24.18	0	24.50
		3	1	24.19	24.03	24.16	0	24.50	24.19	24.03	24.16	0	24.50
		3	3	24.19	24.03	24.15	0	24.50	24.19	24.03	24.15	0	24.50
	16QAM	6	0	23.10	23.03	23.05	1	23.50	23.10	23.03	23.05	1	23.50
		1	0	23.47	23.36	23.39	1	23.50	23.47	23.36	23.39	1	23.50
		1	3	23.41	23.50	23.33	1	23.50	23.41	23.50	23.33	1	23.50
		1	5	23.43	23.32	23.37	1	23.50	23.43	23.32	23.37	1	23.50
		3	0	23.22	23.15	23.26	1	23.50	23.22	23.15	23.26	1	23.50
		3	1	23.20	23.15	23.28	1	23.50	23.20	23.15	23.28	1	23.50
	64QAM	3	3	23.19	23.13	23.28	1	23.50	23.19	23.13	23.28	1	23.50
		6	0	22.11	21.96	22.22	2	22.50	22.11	21.96	22.22	2	22.50
		1	0	22.57	22.39	22.60	2	22.50	22.57	22.39	22.60	2	22.50
		1	3	22.48	22.37	22.71	2	22.50	22.48	22.37	22.71	2	22.50
		1	5	22.43	22.36	22.73	2	22.50	22.43	22.36	22.73	2	22.50
		3	0	22.20	22.18	22.35	2	22.50	22.20	22.18	22.35	2	22.50
		3	1	22.19	22.16	22.35	2	22.50	22.19	22.16	22.35	2	22.50
		3	3	22.18	22.18	22.35	2	22.50	22.18	22.18	22.35	2	22.50
		6	0	21.17	21.07	21.09	3	21.50	21.17	21.07	21.09	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	24.98	25.22	25.00	0	25.70	21.50	21.54	21.64	0	21.75
		1	49	25.30	25.30	25.30	0	25.70	21.65	21.55	21.70	0	21.75
		1	99	25.16	24.96	24.99	0	25.70	21.62	21.52	21.48	0	21.75
		50	0	24.02	24.11	23.94	1	24.70	21.52	21.68	21.56	0	21.75
		50	24	24.30	24.30	24.30	1	24.70	21.65	21.70	21.60	0	21.75
		50	50	24.11	23.98	23.82	1	24.70	21.61	21.47	21.35	0	21.75
		100	0	24.04	23.97	23.82	1	24.70	21.54	21.55	21.40	0	21.75
	16QAM	1	0	24.30	24.50	24.29	1	24.70	21.68	21.57	21.71	0	21.75
		1	49	24.29	24.25	24.06	1	24.70	21.64	21.62	21.65	0	21.75
		1	99	24.38	24.19	24.25	1	24.70	21.55	21.56	21.56	0	21.75
		50	0	23.06	23.17	22.99	2	23.70	21.53	21.70	21.59	0	21.75
		50	24	23.07	23.01	22.88	2	23.70	21.58	21.60	21.38	0	21.75
		50	50	23.12	22.93	22.85	2	23.70	21.67	21.53	21.37	0	21.75
		100	0	23.03	22.99	22.86	2	23.70	21.56	21.60	21.38	0	21.75
	64QAM	1	0	23.07	23.32	23.11	2	23.70	21.62	21.62	21.71	0	21.75
		1	49	23.02	23.05	22.84	2	23.70	21.65	21.62	21.39	0	21.75
		1	99	23.19	23.04	22.96	2	23.70	21.75	21.62	21.58	0	21.75
		50	0	22.04	22.19	21.98	3	22.70	21.57	21.74	21.56	0	21.75
		50	24	22.03	22.05	21.81	3	22.70	21.62	21.59	21.39	0	21.75
		50	50	22.10	21.97	21.73	3	22.70	21.68	21.51	21.39	0	21.75
		100	0	22.04	22.05	21.76	3	22.70	21.64	21.59	21.34	0	21.75
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	24.95	25.10	24.96	0	25.70	21.56	21.73	21.50	0	21.75
		1	37	25.00	24.95	24.82	0	25.70	21.59	21.59	21.36	0	21.75
		1	74	25.03	24.89	24.96	0	25.70	21.60	21.47	21.51	0	21.75
		36	0	23.85	24.06	23.86	1	24.70	21.48	21.68	21.41	0	21.75
		36	20	24.00	23.97	23.86	1	24.70	21.63	21.61	21.38	0	21.75
		36	39	23.99	23.88	23.85	1	24.70	21.58	21.54	21.41	0	21.75
		75	0	24.02	23.97	23.86	1	24.70	21.58	21.58	21.42	0	21.75
	16QAM	1	0	24.16	24.30	24.17	1	24.70	21.44	21.59	21.43	0	21.75
		1	37	24.16	24.20	24.02	1	24.70	21.45	21.52	21.62	0	21.75
		1	74	24.19	24.08	24.18	1	24.70	21.44	21.72	21.74	0	21.75
		36	0	22.92	23.11	22.86	2	23.70	21.50	21.73	21.43	0	21.75
		36	20	23.07	23.05	22.93	2	23.70	21.64	21.62	21.47	0	21.75
		36	39	23.02	22.95	22.95	2	23.70	21.60	21.59	21.47	0	21.75
		75	0	23.04	23.03	22.88	2	23.70	21.64	21.60	21.41	0	21.75
	64QAM	1	0	23.20	23.35	23.22	2	23.70	21.50	21.65	21.45	0	21.75
		1	37	23.28	23.21	23.06	2	23.70	21.51	21.49	21.63	0	21.75
		1	74	23.32	23.15	23.19	2	23.70	21.53	21.42	21.74	0	21.75
		36	0	21.91	22.21	21.87	3	22.70	21.50	21.74	21.43	0	21.75
		36	20	22.05	22.12	21.91	3	22.70	21.64	21.67	21.45	0	21.75
		36	39	22.07	22.03	21.93	3	22.70	21.61	21.59	21.48	0	21.75
		75	0	22.04	22.05	21.86	3	22.70	21.64	21.66	21.44	0	21.75
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	24.97	25.15	24.88	0	25.70	21.58	21.75	21.46	0	21.75
		1	25	24.92	25.02	24.92	0	25.70	21.55	21.65	21.49	0	21.75
		1	49	25.04	24.96	25.04	0	25.70	21.62	21.63	21.57	0	21.75
		25	0	23.91	24.08	23.85	1	24.70	21.51	21.69	21.45	0	21.75
		25	12	23.95	24.01	23.89	1	24.70	21.52	21.54	21.48	0	21.75
		25	25	24.05	23.94	23.98	1	24.70	21.58	21.49	21.49	0	21.75
		50	0	24.00	24.04	23.93	1	24.70	21.57	21.58	21.49	0	21.75
	16QAM	1	0	24.31	24.37	24.10	1	24.70	21.22	21.40	21.66	0	21.75
		1	25	24.19	24.19	24.12	1	24.70	21.17	21.23	21.69	0	21.75
		1	49	24.31	24.15	24.23	1	24.70	21.25	21.22	21.61	0	21.75
		25	0	22.97	23.13	22.89	2	23.70	21.55	21.15	21.49	0	21.75
		25	12	22.98	23.04	22.95	2	23.70	21.53	21.63	21.52	0	21.75
		25	25	23.07	22.99	23.03	2	23.70	21.61	21.56	21.55	0	21.75
		50	0	23.03	23.04	22.97	2	23.70	21.58	21.59	21.48	0	21.75
	64QAM	1	0	23.08	23.24	23.00	2	23.70	21.64	21.69	21.59	0	21.75
		1	25	23.06	23.12	23.00	2	23.70	21.74	21.69	21.57	0	21.75
		1	49	23.15	23.08	23.06	2	23.70	21.46	21.64	21.64	0	21.75
		25	0	21.99	22.19	21.87	3	22.70	21.54	21.63	21.51	0	21.75
		25	12	21.96	22.10	21.90	3	22.70	21.54	21.61	21.48	0	21.75
		25	25	22.06	21.97	21.96	3	22.70	21.64	21.55	21.54	0	21.75
		50	0	22.02	22.07	21.91	3	22.70	21.61	21.63	21.54	0	21.75

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	24.98	25.09	24.86	0	25.70	21.52	21.64	21.43	0	21.75
		1	12	24.90	24.98	24.86	0	25.70	21.47	21.53	21.45	0	21.75
		1	24	24.95	24.91	24.92	0	25.70	21.50	21.47	21.45	0	21.75
		12	0	23.84	23.95	23.78	1	24.70	21.42	21.49	21.31	0	21.75
		12	7	23.82	23.95	23.82	1	24.70	21.36	21.48	21.36	0	21.75
		12	13	23.80	23.89	23.84	1	24.70	21.35	21.42	21.39	0	21.75
		25	0	23.79	23.91	23.84	1	24.70	21.38	21.43	21.37	0	21.75
	16QAM	1	0	24.20	24.46	24.16	1	24.70	21.66	21.70	21.62	0	21.75
		1	12	24.16	24.32	24.24	1	24.70	21.65	21.71	21.61	0	21.75
		1	24	24.13	24.30	24.26	1	24.70	21.70	21.68	21.66	0	21.75
		12	0	22.81	22.93	22.77	2	23.70	21.39	21.50	21.32	0	21.75
		12	7	22.82	22.89	22.78	2	23.70	21.33	21.43	21.34	0	21.75
		12	13	22.80	22.88	22.78	2	23.70	21.32	21.43	21.34	0	21.75
		25	0	22.80	22.88	22.77	2	23.70	21.35	21.44	21.37	0	21.75
	64QAM	1	0	23.17	23.30	23.04	2	23.70	21.72	21.70	21.65	0	21.75
		1	12	23.14	23.20	23.05	2	23.70	21.68	21.60	21.66	0	21.75
		1	24	23.16	23.13	23.01	2	23.70	21.75	21.74	21.66	0	21.75
		12	0	21.77	21.97	21.77	3	22.70	21.29	21.58	21.35	0	21.75
		12	7	21.74	21.93	21.81	3	22.70	21.29	21.49	21.39	0	21.75
		12	13	21.75	21.94	21.81	3	22.70	21.29	21.48	21.35	0	21.75
		25	0	21.79	21.92	21.79	3	22.70	21.31	21.48	21.34	0	21.75

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	18.52	18.55	18.43	0	18.75	19.53	19.77	19.69	0	20.50
		1	49	18.68	18.55	18.45	0	18.75	20.40	20.20	20.10	0	20.50
		1	99	18.56	18.55	18.45	0	18.75	19.79	19.77	19.71	0	20.50
		50	0	18.73	18.46	18.32	0	18.75	19.96	19.62	19.53	0	20.50
		50	24	18.71	18.55	18.45	0	18.75	20.30	20.20	20.10	0	20.50
		50	50	18.67	18.50	18.35	0	18.75	19.97	19.62	19.58	0	20.50
		100	0	18.69	18.55	18.45	0	18.75	20.40	20.20	20.10	0	20.50
	16QAM	1	0	18.59	18.74	18.48	0	18.75	20.03	19.94	19.93	0	20.50
		1	49	18.75	18.66	18.46	0	18.75	20.18	19.87	19.81	0	20.50
		1	99	18.60	18.66	18.30	0	18.75	20.22	20.10	19.94	0	20.50
		50	0	18.74	18.49	18.40	0	18.75	19.69	19.69	19.63	0	20.50
		50	24	18.72	18.47	18.40	0	18.75	19.53	19.74	19.60	0	20.50
		50	50	18.72	18.52	18.38	0	18.75	19.51	19.78	19.60	0	20.50
		100	0	18.71	18.48	18.37	0	18.75	19.56	19.72	19.67	0	20.50
	64QAM	1	0	18.55	18.25	18.05	0	18.75	19.56	19.63	19.53	0	20.50
		1	49	18.74	18.44	18.60	0	18.75	19.76	19.74	19.68	0	20.50
		1	99	18.65	18.35	18.14	0	18.75	19.79	19.64	19.68	0	20.50
		50	0	18.62	18.39	18.28	0	18.75	19.84	20.15	20.15	0.25	20.25
		50	24	18.66	18.41	18.29	0	18.75	19.81	20.08	20.18	0.25	20.25
		50	50	18.66	18.49	18.32	0	18.75	19.80	20.24	20.00	0.25	20.25
		100	0	18.66	18.41	18.31	0	18.75	19.82	20.16	20.02	0.25	20.25
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	18.54	18.39	18.34	0	18.75	19.94	20.02	19.95	0	20.50
		1	37	18.75	18.45	18.34	0	18.75	20.17	20.04	19.90	0	20.50
		1	74	18.62	18.42	18.45	0	18.75	20.13	20.10	20.07	0	20.50
		36	0	18.65	18.43	18.38	0	18.75	20.03	19.94	19.92	0	20.50
		36	20	18.51	18.48	18.35	0	18.75	20.22	20.05	19.92	0	20.50
		36	39	18.74	18.49	18.40	0	18.75	20.18	20.13	19.97	0	20.50
		75	0	18.71	18.44	18.28	0	18.75	20.20	19.98	19.84	0	20.50
	16QAM	1	0	18.55	18.55	18.40	0	18.75	20.17	20.14	20.05	0	20.50
		1	37	18.65	18.62	18.39	0	18.75	20.38	20.17	20.02	0	20.50
		1	74	18.53	18.48	18.73	0	18.75	20.40	20.29	20.22	0	20.50
		36	0	18.64	18.47	18.39	0	18.75	19.81	19.72	19.69	0	20.50
		36	20	18.48	18.52	18.37	0	18.75	19.98	19.78	19.66	0	20.50
		36	39	18.72	18.52	18.41	0	18.75	19.93	19.83	19.72	0	20.50
		75	0	18.45	18.47	18.34	0	18.75	19.96	19.79	19.62	0	20.50
	64QAM	1	0	18.69	18.65	18.53	0	18.75	20.02	20.03	19.89	0	20.50
		1	37	18.46	18.73	18.51	0	18.75	20.21	20.03	19.88	0	20.50
		1	74	18.45	18.60	18.75	0	18.75	20.24	20.11	20.06	0	20.50
		36	0	18.61	18.52	18.42	0	18.75	20.14	20.08	19.81	0.25	20.25
		36	20	18.60	18.56	18.40	0	18.75	20.24	20.11	19.88	0.25	20.25
		36	39	18.62	18.63	18.54	0	18.75	20.21	20.19	20.01	0.25	20.25
		75	0	18.56	18.51	18.38	0	18.75	20.21	20.09	19.89	0.25	20.25
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	18.56	18.45	18.45	0	18.75	20.07	20.08	20.11	0	20.50
		1	25	18.64	18.51	18.49	0	18.75	20.17	20.14	20.05	0	20.50
		1	49	18.71	18.49	18.53	0	18.75	20.30	20.22	20.24	0	20.50
		25	0	18.49	18.44	18.40	0	18.75	20.00	20.05	19.96	0	20.50
		25	12	18.65	18.48	18.48	0	18.75	20.17	20.08	20.07	0	20.50
		25	25	18.46	18.54	18.60	0	18.75	20.25	20.18	20.19	0	20.50
		50	0	18.62	18.49	18.48	0	18.75	20.18	20.11	20.11	0	20.50
	16QAM	1	0	18.52	18.55	18.48	0	18.75	20.35	20.26	20.26	0	20.50
		1	25	18.57	18.63	18.53	0	18.75	20.37	20.29	20.24	0	20.50
		1	49	18.61	18.56	18.59	0	18.75	20.40	20.36	20.38	0	20.50
		25	0	18.50	18.49	18.37	0	18.75	19.73	19.78	19.71	0	20.50
		25	12	18.67	18.53	18.48	0	18.75	19.88	19.84	19.79	0	20.50
		25	25	18.73	18.58	18.57	0	18.75	20.02	19.90	19.92	0	20.50
		50	0	18.66	18.51	18.48	0	18.75	19.90	19.84	19.81	0	20.50
	64QAM	1	0	18.55	18.72	18.64	0	18.75	19.95	19.94	19.94	0	20.50
		1	25	18.49	18.47	18.72	0	18.75	20.05	20.01	19.91	0	20.50
		1	49	18.68	18.55	18.50	0	18.75	20.07	20.04	20.12	0	20.50
		25	0	18.53	18.60	18.68	0	18.75	19.78	19.85	19.81	0.25	20.25
		25	12	18.52	18.55	18.50	0	18.75	19.93	19.89	19.88	0.25	20.25
		25	25	18.47	18.61	18.59	0	18.75	20.05	19.96	19.98	0.25	20.25
		50	0	18.64	18.56	18.47	0	18.75	19.97	19.92	19.89	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	18.56	18.56	18.42	0	18.75	19.96	20.00	20.10	0	20.50
		1	12	18.50	18.50	18.51	0	18.75	19.93	20.05	20.15	0	20.50
		1	24	18.66	18.66	18.47	0	18.75	20.15	20.13	20.16	0	20.50
		12	0	18.39	18.39	18.42	0	18.75	19.83	19.98	20.07	0	20.50
		12	7	18.39	18.39	18.46	0	18.75	19.83	19.98	20.09	0	20.50
		12	13	18.47	18.47	18.44	0	18.75	19.93	19.99	20.08	0	20.50
		25	0	18.42	18.42	18.45	0	18.75	19.86	20.01	20.09	0	20.50
	16QAM	1	0	18.61	18.61	18.59	0	18.75	20.24	20.31	20.39	0	20.50
		1	12	18.40	18.50	18.68	0	18.75	20.15	20.42	20.47	0	20.50
		1	24	18.59	18.59	18.56	0	18.75	20.37	20.46	20.22	0	20.50
		12	0	18.35	18.35	18.37	0	18.75	19.54	19.72	19.77	0	20.50
		12	7	18.39	18.39	18.42	0	18.75	19.57	19.69	19.83	0	20.50
		12	13	18.44	18.44	18.40	0	18.75	19.65	19.68	19.81	0	20.50
		25	0	18.35	18.35	18.42	0	18.75	19.54	19.70	19.84	0	20.50
	64QAM	1	0	18.58	18.67	18.46	0	18.75	19.91	19.97	20.02	0	20.50
		1	12	18.68	18.68	18.71	0	18.75	19.86	20.01	20.07	0	20.50
		1	24	18.70	18.55	18.48	0	18.75	20.02	20.08	20.11	0	20.50
		12	0	18.46	18.57	18.59	0	18.75	19.63	19.78	19.85	0.25	20.25
		12	7	18.41	18.59	18.66	0	18.75	19.62	19.80	19.89	0.25	20.25
		12	13	18.58	18.57	18.64	0	18.75	19.69	19.80	19.85	0.25	20.25
		25	0	18.51	18.63	18.70	0	18.75	19.59	19.76	19.83	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	24.53	24.70	24.79	0	25.00	21.17	21.51	21.68	0	21.75
		1	49	24.97	24.94	24.80	0	25.00	21.40	21.60	21.70	0	21.75
		1	99	24.73	24.83	24.93	0	25.00	21.40	21.60	21.50	0	21.75
		50	0	23.97	23.87	23.77	1	24.00	21.30	21.60	21.64	0	21.75
		50	24	23.91	23.98	23.90	1	24.00	21.30	21.60	21.70	0	21.75
		50	50	23.84	23.58	23.50	1	24.00	21.30	21.56	21.52	0	21.75
		100	0	23.95	23.98	23.84	1	24.00	21.30	21.60	21.70	0	21.75
	16QAM	1	0	23.73	23.60	23.67	1	24.00	21.42	21.53	21.66	0	21.75
		1	49	23.79	23.98	23.97	1	24.00	21.63	21.54	21.64	0	21.75
		1	99	23.99	23.81	23.78	1	24.00	21.51	21.75	21.50	0	21.75
		50	0	22.99	22.87	22.85	2	23.00	21.41	21.36	21.75	0	21.75
		50	24	22.95	22.74	22.85	2	23.00	21.40	21.61	21.73	0	21.75
		50	50	22.85	22.75	22.72	2	23.00	21.33	21.63	21.61	0	21.75
		100	0	22.87	22.70	22.80	2	23.00	21.34	21.59	21.73	0	21.75
	64QAM	1	0	22.20	22.47	22.64	2	23.00	20.97	21.59	21.48	0	21.75
		1	49	22.54	22.52	22.81	2	23.00	21.28	21.60	21.66	0	21.75
		1	99	22.67	22.50	22.60	2	23.00	21.36	21.57	21.47	0	21.75
		50	0	21.24	21.52	21.53	3	22.00	20.79	20.92	20.90	0	21.75
		50	24	21.29	21.50	21.56	3	22.00	20.87	20.89	20.99	0	21.75
		50	50	21.34	21.40	21.51	3	22.00	20.90	20.77	20.90	0	21.75
		100	0	21.23	21.44	21.56	3	22.00	20.82	20.88	20.97	0	21.75
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	24.46	24.68	24.73	0	25.00	21.12	21.40	21.59	0	21.75
		1	37	24.61	24.66	24.71	0	25.00	21.66	21.58	21.56	0	21.75
		1	74	24.78	24.72	24.93	0	25.00	21.51	21.65	21.50	0	21.75
		36	0	23.63	23.94	23.76	1	24.00	21.68	21.46	21.70	0	21.75
		36	20	23.66	23.72	23.72	1	24.00	21.68	21.61	21.62	0	21.75
		36	39	23.98	23.65	23.66	1	24.00	21.63	21.55	21.56	0	21.75
		75	0	23.95	23.71	23.70	1	24.00	21.67	21.51	21.54	0	21.75
	16QAM	1	0	23.56	23.92	23.97	1	24.00	21.38	21.60	21.61	0	21.75
		1	37	23.75	23.91	23.99	1	24.00	21.61	21.71	21.51	0	21.75
		1	74	23.99	23.62	23.76	1	24.00	21.51	21.50	21.71	0	21.75
		36	0	22.97	22.61	22.86	2	23.00	21.43	21.45	21.46	0	21.75
		36	20	22.61	22.76	22.79	2	23.00	21.43	21.66	21.66	0	21.75
		36	39	22.93	22.68	22.74	2	23.00	21.43	21.64	21.63	0	21.75
		75	0	22.93	22.68	22.72	2	23.00	21.40	21.59	21.62	0	21.75
	64QAM	1	0	22.08	22.49	22.57	2	23.00	20.81	21.38	21.33	0	21.75
		1	37	22.42	22.57	22.54	2	23.00	21.12	21.43	21.35	0	21.75
		1	74	22.51	22.44	22.37	2	23.00	21.34	21.29	21.18	0	21.75
		36	0	21.42	21.56	21.64	3	22.00	20.80	20.99	21.04	0	21.75
		36	20	21.28	21.61	21.57	3	22.00	20.89	21.01	20.98	0	21.75
		36	39	21.33	21.44	21.50	3	22.00	20.91	20.87	20.95	0	21.75
		75	0	21.20	21.52	21.49	3	22.00	20.82	20.96	20.93	0	21.75
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	24.39	24.84	24.77	0	25.00	21.12	21.61	21.66	0	21.75
		1	25	24.96	24.67	24.72	0	25.00	21.71	21.54	21.61	0	21.75
		1	49	24.92	24.70	24.62	0	25.00	21.67	21.54	21.57	0	21.75
		25	0	23.78	23.62	23.69	1	24.00	21.51	21.46	21.59	0	21.75
		25	12	23.96	23.72	23.75	1	24.00	21.66	21.57	21.57	0	21.75
		25	25	23.96	23.68	23.72	1	24.00	21.66	21.51	21.63	0	21.75
		50	0	23.86	23.74	23.71	1	24.00	21.57	21.58	21.62	0	21.75
	16QAM	1	0	23.59	23.71	24.00	1	24.00	21.32	21.56	21.58	0	21.75
		1	25	23.69	23.91	23.96	1	24.00	21.61	21.51	21.51	0	21.75
		1	49	23.76	23.91	23.89	1	24.00	21.57	21.54	21.54	0	21.75
		25	0	22.79	22.62	22.74	2	23.00	21.28	21.56	21.38	0	21.75
		25	12	22.91	22.77	22.72	2	23.00	21.42	21.64	21.67	0	21.75
		25	25	22.94	22.70	22.75	2	23.00	21.40	21.60	21.72	0	21.75
		50	0	22.93	22.74	22.74	2	23.00	21.35	21.63	21.66	0	21.75
	64QAM	1	0	22.91	22.61	22.66	2	23.00	21.69	21.43	21.38	0	21.75
		1	25	22.41	22.65	22.55	2	23.00	21.20	21.51	21.41	0	21.75
		1	49	22.48	22.58	22.42	2	23.00	21.23	21.33	21.22	0	21.75
		25	0	21.26	21.57	21.59	3	22.00	20.83	21.07	21.05	0	21.75
		25	12	21.26	21.58	21.55	3	22.00	20.85	21.08	21.08	0	21.75
		25	25	21.29	21.49	21.44	3	22.00	20.78	20.98	20.98	0	21.75
		50	0	21.23	21.49	21.56	3	22.00	20.80	21.08	21.08	0	21.75

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	24.32	24.97	24.99	0	25.00	20.96	21.69	21.56	0	21.75
		1	12	24.67	24.98	24.92	0	25.00	21.34	21.48	21.59	0	21.75
		1	24	24.81	24.93	24.92	0	25.00	21.51	21.46	21.56	0	21.75
		12	0	23.48	23.96	23.93	1	24.00	21.13	21.45	21.48	0	21.75
		12	7	23.66	23.95	23.91	1	24.00	21.34	21.47	21.56	0	21.75
		12	13	23.77	23.95	23.96	1	24.00	21.50	21.47	21.55	0	21.75
		25	0	23.67	23.92	23.96	1	24.00	21.38	21.46	21.57	0	21.75
	16QAM	1	0	23.48	23.92	23.99	1	24.00	21.23	21.59	21.53	0	21.75
		1	12	23.87	23.62	23.66	1	24.00	21.60	21.73	21.58	0	21.75
		1	24	23.65	23.98	23.97	1	24.00	21.54	21.74	21.54	0	21.75
		12	0	22.37	22.66	22.66	2	23.00	20.86	21.48	21.54	0	21.75
		12	7	22.64	22.68	22.66	2	23.00	21.05	21.50	21.58	0	21.75
		12	13	22.77	22.68	22.97	2	23.00	21.16	21.48	21.56	0	21.75
		25	0	22.58	22.95	22.64	2	23.00	21.05	21.43	21.51	0	21.75
	64QAM	1	0	22.91	22.69	22.75	2	23.00	20.77	21.43	21.51	0	21.75
		1	12	22.29	22.64	22.68	2	23.00	21.11	21.42	21.36	0	21.75
		1	24	22.34	22.59	22.68	2	23.00	21.20	21.38	21.32	0	21.75
		12	0	21.95	21.50	21.44	3	22.00	20.90	21.15	21.10	0	21.75
		12	7	21.16	21.38	21.32	3	22.00	21.10	21.06	20.96	0	21.75
		12	13	21.27	21.36	21.30	3	22.00	21.21	21.02	20.93	0	21.75
		25	0	21.10	21.35	21.31	3	22.00	21.09	21.03	20.94	0	21.75

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	16.76	16.56	16.12	0	17.00	17.67	17.66	17.74	0	18.25
		1	49	17.00	16.60	16.60	0	17.00	18.11	18.18	18.05	0	18.25
		1	99	16.52	16.56	16.24	0	17.00	17.64	17.57	17.92	0	18.25
		50	0	16.67	16.46	16.22	0	17.00	17.82	17.55	17.76	0	18.25
		50	24	16.90	16.60	16.60	0	17.00	18.12	18.17	18.04	0	18.25
		50	50	16.57	16.60	16.21	0	17.00	17.61	17.45	17.87	0	18.25
		100	0	16.90	16.60	16.60	0	17.00	18.14	18.10	17.98	0	18.25
	16QAM	1	0	16.53	16.87	16.98	0	17.00	18.01	17.95	18.03	0	18.25
		1	49	16.90	16.91	16.63	0	17.00	17.93	17.77	18.11	0	18.25
		1	99	16.89	16.52	16.86	0	17.00	17.87	17.81	18.02	0	18.25
		50	0	16.69	16.53	16.83	0	17.00	17.82	17.55	17.81	0	18.25
		50	24	16.64	16.67	16.93	0	17.00	17.71	17.47	17.81	0	18.25
		50	50	16.66	16.75	16.87	0	17.00	17.61	17.49	17.87	0	18.25
		100	0	16.65	16.69	16.94	0	17.00	17.69	17.47	17.77	0	18.25
	64QAM	1	0	16.51	16.77	16.94	0	17.00	17.79	17.74	17.87	0	18.25
		1	49	16.78	16.75	16.58	0	17.00	17.77	17.60	17.85	0	18.25
		1	99	16.70	16.62	16.60	0	17.00	17.75	17.63	17.87	0	18.25
		50	0	16.82	16.57	16.45	0	17.00	17.83	17.64	17.75	0	18.25
		50	24	16.80	16.78	16.49	0	17.00	17.70	17.52	17.76	0	18.25
		50	50	16.75	16.86	16.39	0	17.00	17.64	17.55	17.85	0	18.25
		100	0	16.75	16.82	16.44	0	17.00	17.68	17.51	17.72	0	18.25
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	16.68	16.44	16.43	0	17.00	17.66	17.60	17.76	0	18.25
		1	37	16.50	16.58	16.43	0	17.00	17.63	17.47	17.80	0	18.25
		1	74	16.37	16.60	16.48	0	17.00	17.46	17.52	17.86	0	18.25
		36	0	16.58	16.44	16.49	0	17.00	17.77	17.54	17.65	0	18.25
		36	20	16.54	16.59	16.38	0	17.00	17.68	17.48	17.77	0	18.25
		36	39	16.48	16.63	16.40	0	17.00	17.61	17.52	17.79	0	18.25
		75	0	16.52	16.61	16.39	0	17.00	17.64	17.48	17.77	0	18.25
	16QAM	1	0	16.43	16.61	16.60	0	17.00	17.93	17.77	17.98	0	18.25
		1	37	16.75	16.81	16.65	0	17.00	17.87	17.77	18.04	0	18.25
		1	74	16.63	16.40	16.76	0	17.00	17.74	17.78	18.04	0	18.25
		36	0	16.62	16.48	16.50	0	17.00	17.80	17.58	17.75	0	18.25
		36	20	16.59	16.59	16.45	0	17.00	17.71	17.49	17.84	0	18.25
		36	39	16.52	16.64	16.44	0	17.00	17.69	17.53	17.86	0	18.25
		75	0	16.53	16.60	16.44	0	17.00	17.70	17.46	17.83	0	18.25
	64QAM	1	0	16.47	16.73	16.70	0	17.00	17.99	17.77	18.06	0	18.25
		1	37	16.84	16.86	16.74	0	17.00	18.04	17.74	18.12	0	18.25
		1	74	16.76	16.88	16.83	0	17.00	17.94	17.81	18.11	0	18.25
		36	0	16.67	16.53	16.52	0	17.00	17.91	17.57	17.76	0	18.25
		36	20	16.63	16.57	16.48	0	17.00	17.79	17.54	17.86	0	18.25
		36	39	16.57	16.60	16.47	0	17.00	17.78	17.58	17.90	0	18.25
		75	0	16.55	16.56	16.47	0	17.00	17.73	17.50	17.84	0	18.25
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	16.65	16.53	16.63	0	17.00	17.57	17.55	17.79	0	18.25
		1	25	16.57	16.62	16.59	0	17.00	17.69	17.51	17.85	0	18.25
		1	49	16.53	16.75	16.68	0	17.00	17.55	17.51	17.88	0	18.25
		25	0	16.64	16.55	16.57	0	17.00	17.58	17.47	17.77	0	18.25
		25	12	16.60	16.63	16.54	0	17.00	17.52	17.41	17.84	0	18.25
		25	25	16.55	16.68	16.53	0	17.00	17.47	17.48	17.87	0	18.25
		50	0	16.61	16.66	16.52	0	17.00	17.59	17.42	17.79	0	18.25
	16QAM	1	0	16.51	16.81	16.86	0	17.00	17.73	17.76	18.03	0	18.25
		1	25	16.88	16.87	16.74	0	17.00	17.89	17.73	18.06	0	18.25
		1	49	16.81	16.46	16.84	0	17.00	17.82	17.82	18.10	0	18.25
		25	0	16.67	16.57	16.60	0	17.00	17.58	17.54	17.81	0	18.25
		25	12	16.59	16.65	16.57	0	17.00	17.69	17.48	17.83	0	18.25
		25	25	16.58	16.68	16.58	0	17.00	17.61	17.56	17.92	0	18.25
		50	0	16.59	16.66	16.57	0	17.00	17.69	17.48	17.83	0	18.25
	64QAM	1	0	16.39	16.67	16.77	0	17.00	17.81	17.80	17.97	0	18.25
		1	25	16.85	16.81	16.70	0	17.00	17.89	17.75	18.03	0	18.25
		1	49	16.78	16.92	16.86	0	17.00	17.80	17.86	18.08	0	18.25
		25	0	16.76	16.65	16.59	0	17.00	17.69	17.59	17.84	0	18.25
		25	12	16.70	16.75	16.58	0	17.00	17.77	17.52	17.88	0	18.25
		25	25	16.64	16.80	16.60	0	17.00	17.70	17.63	17.98	0	18.25
		50	0	16.72	16.76	16.58	0	17.00	17.76	17.52	17.89	0	18.25

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	16.65	16.54	16.46	0	17.00	17.62	17.50	17.73	0	18.25
		1	12	16.67	16.58	16.43	0	17.00	17.67	17.44	17.78	0	18.25
		1	24	16.60	16.64	16.58	0	17.00	17.76	17.52	17.79	0	18.25
		12	0	16.58	16.51	16.36	0	17.00	17.53	17.38	17.71	0	18.25
		12	7	16.59	16.54	16.41	0	17.00	17.59	17.39	17.75	0	18.25
		12	13	16.54	16.57	16.49	0	17.00	17.63	17.39	17.77	0	18.25
		25	0	16.58	16.54	16.40	0	17.00	17.55	17.39	17.74	0	18.25
	16QAM	1	0	16.56	16.91	16.85	0	17.00	17.95	17.92	18.08	0	18.25
		1	12	16.05	16.94	16.86	0	17.00	18.02	17.81	18.17	0	18.25
		1	24	16.03	16.55	16.98	0	17.00	18.08	17.92	18.15	0	18.25
		12	0	16.63	16.39	16.35	0	17.00	17.52	17.42	17.67	0	18.25
		12	7	16.62	16.45	16.41	0	17.00	17.56	17.39	17.73	0	18.25
		12	13	16.58	16.47	16.49	0	17.00	17.60	17.39	17.73	0	18.25
		25	0	16.64	16.46	16.44	0	17.00	17.57	17.39	17.75	0	18.25
	64QAM	1	0	16.49	16.64	16.70	0	17.00	17.85	17.69	17.96	0	18.25
		1	12	16.96	16.73	16.70	0	17.00	17.91	17.64	18.02	0	18.25
		1	24	16.93	16.79	16.83	0	17.00	18.00	17.76	18.01	0	18.25
		12	0	16.68	16.47	16.37	0	17.00	17.43	17.39	17.76	0	18.25
		12	7	16.66	16.52	16.44	0	17.00	17.53	17.37	17.78	0	18.25
		12	13	16.61	16.47	16.51	0	17.00	17.62	17.39	17.77	0	18.25
		25	0	16.65	16.44	16.43	0	17.00	17.57	17.34	17.72	0	18.25

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		24.83		0	25.70		24.83		0	25.70
		1	25		25.50		0	25.70		25.50		0	25.70
		1	49		24.75		0	25.70		24.75		0	25.70
		25	0		23.91		1	24.70		23.91		1	24.70
		25	12		24.60		1	24.70		24.60		1	24.70
		25	25		23.71		1	24.70		23.71		1	24.70
		50	0		24.30		1	24.70		24.30		1	24.70
	16QAM	1	0		23.87		1	24.70		23.87		1	24.70
		1	25		23.81		1	24.70		23.81		1	24.70
		1	49		23.76		1	24.70		23.76		1	24.70
		25	0		22.91		2	23.70		22.91		2	23.70
		25	12		22.80		2	23.70		22.80		2	23.70
		25	25		22.74		2	23.70		22.74		2	23.70
	64QAM	50	0		22.80		2	23.70		22.80		2	23.70
		1	0		23.29		2	23.70		23.29		2	23.70
		1	25		23.34		2	23.70		23.34		2	23.70
		1	49		23.23		2	23.70		23.23		2	23.70
		25	0		22.13		3	22.70		22.13		3	22.70
		25	12		22.09		3	22.70		22.09		3	22.70
		25	25		22.02		3	22.70		22.02		3	22.70
		50	0		22.08		3	22.70		22.08		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					701.5 MHz			
5 MHz	QPSK	1	0		24.76		0	25.70		24.76		0	25.70
		1	12		24.78		0	25.70		24.78		0	25.70
		1	24		24.82		0	25.70		24.82		0	25.70
		12	0		23.79		1	24.70		23.79		1	24.70
		12	7		23.71		1	24.70		23.71		1	24.70
		12	13		23.71		1	24.70		23.71		1	24.70
		25	0		23.72		1	24.70		23.72		1	24.70
	16QAM	1	0		23.87		1	24.70		23.87		1	24.70
		1	12		23.89		1	24.70		23.89		1	24.70
		1	24		23.87		1	24.70		23.87		1	24.70
		12	0		22.73		2	23.70		22.73		2	23.70
		12	7		23.00		2	23.70		23.00		2	23.70
		12	13		23.01		2	23.70		23.01		2	23.70
		25	0		23.00		2	23.70		23.00		2	23.70
	64QAM	1	0		23.39		2	23.70		23.39		2	23.70
		1	12		23.28		2	23.70		23.28		2	23.70
		1	24		23.33		2	23.70		23.33		2	23.70
		12	0		21.94		3	22.70		21.94		3	22.70
		12	7		21.86		3	22.70		21.86		3	22.70
		12	13		21.86		3	22.70		21.86		3	22.70
		25	0		21.86		3	22.70		21.86		3	22.70
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					700.5 MHz			
3 MHz	QPSK	1	0		24.81		0	25.70		24.81		0	25.70
		1	8		24.88		0	25.70		24.88		0	25.70
		1	14		24.81		0	25.70		24.81		0	25.70
		8	0		23.95		1	24.70		23.95		1	24.70
		8	4		24.02		1	24.70		24.02		1	24.70
		8	7		24.03		1	24.70		24.03		1	24.70
		15	0		24.04		1	24.70		24.04		1	24.70
	16QAM	1	0		24.00		1	24.70		24.00		1	24.70
		1	8		23.81		1	24.70		23.81		1	24.70
		1	14		24.03		1	24.70		24.03		1	24.70
		8	0		22.96		2	23.70		22.96		2	23.70
		8	4		23.06		2	23.70		23.06		2	23.70
		8	7		23.05		2	23.70		23.05		2	23.70
		15	0		23.04		2	23.70		23.04		2	23.70
	64QAM	1	0		23.05		2	23.70		23.05		2	23.70
		1	8		23.19		2	23.70		23.19		2	23.70
		1	14		23.12		2	23.70		23.12		2	23.70
		8	0		21.72		3	22.70		21.72		3	22.70
		8	4		21.78		3	22.70		21.78		3	22.70
		8	7		21.79		3	22.70		21.79		3	22.70
		15	0		21.74		3	22.70		21.74		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	24.85	24.86	24.78	0	25.70	24.85	24.86	24.78	0	25.70
		1	3	24.83	24.83	24.75	0	25.70	24.83	24.83	24.75	0	25.70
		1	5	24.93	24.84	24.79	0	25.70	24.93	24.84	24.79	0	25.70
		3	0	25.04	25.10	24.95	0	25.70	25.04	25.10	24.95	0	25.70
		3	1	25.00	25.07	24.95	0	25.70	25.00	25.07	24.95	0	25.70
		3	3	25.00	25.06	24.90	0	25.70	25.00	25.06	24.90	0	25.70
	16QAM	6	0	23.90	24.00	23.92	1	24.70	23.90	24.00	23.92	1	24.70
		1	0	24.06	24.07	24.05	1	24.70	24.06	24.07	24.05	1	24.70
		1	3	24.01	24.04	24.06	1	24.70	24.01	24.04	24.06	1	24.70
		1	5	24.16	24.00	24.02	1	24.70	24.16	24.00	24.02	1	24.70
		3	0	23.82	23.84	23.71	1	24.70	23.82	23.84	23.71	1	24.70
		3	1	24.12	24.11	24.03	1	24.70	24.12	24.11	24.03	1	24.70
	64QAM	3	3	24.14	24.08	24.02	1	24.70	24.14	24.08	24.02	1	24.70
		6	0	23.04	22.96	22.83	2	23.70	23.04	22.96	22.83	2	23.70
		1	0	23.27	23.54	23.28	2	23.70	23.27	23.54	23.28	2	23.70
		1	3	23.16	23.43	23.28	2	23.70	23.16	23.43	23.28	2	23.70
		1	5	23.30	23.41	23.34	2	23.70	23.30	23.41	23.34	2	23.70
		3	0	22.98	23.14	22.95	2	23.70	22.98	23.14	22.95	2	23.70
		3	1	22.98	23.14	22.94	2	23.70	22.98	23.14	22.94	2	23.70
		3	3	23.00	23.11	22.97	2	23.70	23.00	23.11	22.97	2	23.70
		6	0	21.87	21.94	21.98	3	22.70	21.87	21.94	21.98	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		24.44		0	24.50		24.44		0	24.50	
		1	25		24.50		0	24.50		24.50		0	24.50	
		1	49		24.38		0	24.50		24.38		0	24.50	
		25	0		23.38		1	23.50		23.38		1	23.50	
		25	12		23.50		1	23.50		23.50		1	23.50	
		25	25		23.34		1	23.50		23.34		1	23.50	
	16QAM	50	0		23.50		1	23.50		23.50		1	23.50	
		1	0		23.46		1	23.50		23.46		1	23.50	
		1	25		23.25		1	23.50		23.25		1	23.50	
		1	49		23.37		1	23.50		23.37		1	23.50	
		25	0		22.40		2	22.50		22.40		2	22.50	
		25	12		22.22		2	22.50		22.22		2	22.50	
	64QAM	25	25		22.45		2	22.50		22.45		2	22.50	
		50	0		22.23		2	22.50		22.23		2	22.50	
		1	0		22.33		2	22.50		22.33		2	22.50	
		1	25		22.37		2	22.50		22.37		2	22.50	
		1	49		22.31		2	22.50		22.31		2	22.50	
		25	0		21.07		3	21.50		21.07		3	21.50	
		25	12		21.11		3	21.50		21.11		3	21.50	
		25	25		21.08		3	21.50		21.08		3	21.50	
		50	0		21.15		3	21.50		21.15		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		24.37	24.44	24.42	0	24.50	24.37	24.44	24.42	0	24.50
		1	12		24.20	24.24	24.32	0	24.50	24.20	24.24	24.32	0	24.50
		1	24		24.49	24.47	24.30	0	24.50	24.49	24.47	24.30	0	24.50
		12	0		23.48	23.41	23.26	1	23.50	23.48	23.41	23.26	1	23.50
		12	7		23.44	23.45	23.25	1	23.50	23.44	23.45	23.25	1	23.50
		12	13		23.42	23.47	23.31	1	23.50	23.42	23.47	23.31	1	23.50
	16QAM	25	0		23.44	23.45	23.26	1	23.50	23.44	23.45	23.26	1	23.50
		1	0		23.41	23.41	23.23	1	23.50	23.41	23.41	23.23	1	23.50
		1	12		23.28	23.22	23.43	1	23.50	23.28	23.22	23.43	1	23.50
		1	24		23.20	23.46	23.38	1	23.50	23.20	23.46	23.38	1	23.50
		12	0		22.43	22.38	22.28	2	22.50	22.43	22.38	22.28	2	22.50
		12	7		22.41	22.46	22.25	2	22.50	22.41	22.46	22.25	2	22.50
	64QAM	12	13		22.40	22.21	22.29	2	22.50	22.40	22.21	22.29	2	22.50
		25	0		22.41	22.39	22.22	2	22.50	22.41	22.39	22.22	2	22.50
		1	0		22.08	22.36	22.44	2	22.50	22.08	22.36	22.44	2	22.50
		1	12		21.96	22.42	22.33	2	22.50	21.96	22.42	22.33	2	22.50
		1	24		22.02	22.36	22.37	2	22.50	22.02	22.36	22.37	2	22.50
		12	0		20.71	20.96	20.90	3	21.50	20.71	20.96	20.90	3	21.50
		12	7		20.69	20.91	20.87	3	21.50	20.69	20.91	20.87	3	21.50
		12	13		20.66	21.00	20.92	3	21.50	20.66	21.00	20.92	3	21.50
		25	0		20.64	20.99	20.86	3	21.50	20.64	20.99	20.86	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		24.38	24.44	24.35	0	24.50	24.38	24.44	24.35	0	24.50
		1	8		24.38	24.25	24.41	0	24.50	24.38	24.25	24.41	0	24.50
		1	14		24.30	24.21	24.31	0	24.50	24.30	24.21	24.31	0	24.50
		8	0		23.25	23.29	23.23	1	23.50	23.25	23.29	23.23	1	23.50
		8	4		23.48	23.35	23.26	1	23.50	23.48	23.35	23.26	1	23.50
		8	7		23.48	23.34	23.25	1	23.50	23.48	23.34	23.25	1	23.50
	16QAM	15	0		23.50	23.41	23.29	1	23.50	23.50	23.41	23.29	1	23.50
		1	0		23.32	23.21	23.34	1	23.50	23.32	23.21	23.34	1	23.50
		1	8		23.50	23.26	23.42	1	23.50	23.50	23.26	23.42	1	23.50
		1	14		23.39	23.25	23.30	1	23.50	23.39	23.25	23.30	1	23.50
		8	0		22.39	22.29	22.16	2	22.50	22.39	22.29	22.16	2	22.50
		8	4		22.29	22.34	22.49	2	22.50	22.29	22.34	22.49	2	22.50
	64QAM	8	7		22.48	22.39	22.48	2	22.50	22.48	22.39	22.48	2	22.50
		15	0		22.49	22.39	22.22	2	22.50	22.49	22.39	22.22	2	22.50
		1	0		22.11	21.80	21.83	2	22.50	22.11	21.80	21.83	2	22.50
		1	8		21.98	22.01	21.83	2	22.50	21.98	22.01	21.83	2	22.50
		1	14		22.00	21.95	21.75	2	22.50	22.00	21.95	21.75	2	22.50
		8	0		20.78	20.52	20.42	3	21.50	20.78	20.52	20.42	3	21.50
		8	4		20.69	20.56	20.45	3	21.50	20.69	20.56	20.45	3	21.50
		8	7		20.67	20.54	20.43	3	21.50	20.67	20.54	20.43	3	21.50
		15	0		20.63	20.53	20.46	3	21.50	20.63	20.53	20.46	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	24.41	24.31	24.43	0	24.50	24.41	24.31	24.43	0	24.50
		1	3	24.34	24.25	24.40	0	24.50	24.34	24.25	24.40	0	24.50
		1	5	24.30	24.27	24.41	0	24.50	24.30	24.27	24.41	0	24.50
		3	0	24.28	24.38	24.21	0	24.50	24.28	24.38	24.21	0	24.50
		3	1	24.26	24.39	24.21	0	24.50	24.26	24.39	24.21	0	24.50
		3	3	24.27	24.37	24.45	0	24.50	24.27	24.37	24.45	0	24.50
	16QAM	6	0	23.22	23.38	23.46	1	23.50	23.22	23.38	23.46	1	23.50
		1	0	23.26	23.27	23.35	1	23.50	23.26	23.27	23.35	1	23.50
		1	3	23.24	23.32	23.31	1	23.50	23.24	23.32	23.31	1	23.50
		1	5	23.21	23.32	23.33	1	23.50	23.21	23.32	23.33	1	23.50
		3	0	23.36	23.25	23.38	1	23.50	23.36	23.25	23.38	1	23.50
		3	1	23.34	23.23	23.36	1	23.50	23.34	23.23	23.36	1	23.50
	64QAM	3	3	23.33	23.23	23.33	1	23.50	23.33	23.23	23.33	1	23.50
		6	0	22.20	22.37	22.26	2	22.50	22.20	22.37	22.26	2	22.50
		1	0	22.43	21.82	21.87	2	22.50	22.43	22.12	21.87	2	22.50
		1	3	22.36	22.08	21.89	2	22.50	22.36	22.08	21.89	2	22.50
		1	5	22.27	22.16	21.90	2	22.50	22.27	22.16	21.90	2	22.50
		3	0	22.04	21.81	21.62	2	22.50	22.04	21.81	21.62	2	22.50
		3	1	22.07	21.78	21.60	2	22.50	22.07	21.78	21.60	2	22.50
		3	3	22.06	21.78	21.59	2	22.50	22.06	21.78	21.59	2	22.50
		6	0	20.87	20.71	20.48	3	21.50	20.87	20.71	20.48	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	782 MHz	MPR	Tune-up Limit	23230	782 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.78		0	25.70	24.78		0	25.70
		1	25	25.70		0	25.70	25.70		0	25.70
		1	49	24.72		0	25.70	24.72		0	25.70
		25	0	23.71		1	24.70	23.71		1	24.70
		25	12	24.70		1	24.70	24.70		1	24.70
		25	25	23.71		1	24.70	23.71		1	24.70
		50	0	24.70		1	24.70	24.70		1	24.70
	16QAM	1	0	23.86		1	24.70	23.86		1	24.70
		1	25	24.07		1	24.70	24.07		1	24.70
		1	49	23.78		1	24.70	23.78		1	24.70
		25	0	22.71		2	23.70	22.71		2	23.70
		25	12	22.74		2	23.70	22.74		2	23.70
	64QAM	25	25	22.76		2	23.70	22.76		2	23.70
		50	0	22.78		2	23.70	22.78		2	23.70
		1	0	23.69		2	23.70	23.69		2	23.70
		1	25	23.61		2	23.70	23.61		2	23.70
		1	49	23.47		2	23.70	23.47		2	23.70
		25	0	22.18		3	22.70	22.18		3	22.70
		25	12	22.31		3	22.70	22.31		3	22.70
		25	25	22.20		3	22.70	22.20		3	22.70
		50	0	22.34		3	22.70	22.34		3	22.70
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
5 MHz	QPSK	1	0	24.73		0	25.70	24.73		0	25.70
		1	12	24.72		0	25.70	24.72		0	25.70
		1	24	24.77		0	25.70	24.77		0	25.70
		12	0	23.77		1	24.70	23.77		1	24.70
		12	7	23.71		1	24.70	23.71		1	24.70
		12	13	23.72		1	24.70	23.72		1	24.70
		25	0	23.73		1	24.70	23.73		1	24.70
	16QAM	1	0	24.02		1	24.70	24.02		1	24.70
		1	12	23.90		1	24.70	23.90		1	24.70
		1	24	24.09		1	24.70	24.09		1	24.70
		12	0	22.77		2	23.70	22.77		2	23.70
		12	7	22.71		2	23.70	22.71		2	23.70
	64QAM	12	13	22.74		2	23.70	22.74		2	23.70
		25	0	22.77		2	23.70	22.77		2	23.70
		1	0	23.68		2	23.70	23.68		2	23.70
		1	12	23.70		2	23.70	23.70		2	23.70
		1	24	23.53		2	23.70	23.53		2	23.70
		12	0	22.14		3	22.70	22.14		3	22.70
		12	7	22.20		3	22.70	22.20		3	22.70
		12	13	22.11		3	22.70	22.11		3	22.70
		25	0	22.20		3	22.70	22.20		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	24.33		0	24.50	24.33		0	24.50
		1	25	24.40		0	24.50	24.40		0	24.50
		1	49	24.19		0	24.50	24.19		0	24.50
		25	0	23.10		1	23.50	23.10		1	23.50
		25	12	23.20		1	23.50	23.20		1	23.50
		25	25	23.15		1	23.50	23.15		1	23.50
		50	0	23.18		1	23.50	23.18		1	23.50
	16QAM	1	0	23.49		1	23.50	23.49		1	23.50
		1	25	23.31		1	23.50	23.31		1	23.50
		1	49	23.37		1	23.50	23.37		1	23.50
		25	0	22.11		2	22.50	22.11		2	22.50
		25	12	22.14		2	22.50	22.14		2	22.50
	64QAM	25	25	22.20		2	22.50	22.20		2	22.50
		50	0	22.14		2	22.50	22.14		2	22.50
		1	0	22.37		2	22.50	22.37		2	22.50
		1	25	22.11		2	22.50	22.11		2	22.50
		1	49	22.22		2	22.50	22.22		2	22.50
		25	0	20.83		3	21.50	20.83		3	21.50
		25	12	20.89		3	21.50	20.89		3	21.50
		25	25	20.95		3	21.50	20.95		3	21.50
		50	0	20.91		3	21.50	20.91		3	21.50
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
5 MHz	QPSK	1	0	24.12		0	24.50	24.12		0	24.50
		1	12	24.13		0	24.50	24.13		0	24.50
		1	24	24.23		0	24.50	24.23		0	24.50
		12	0	23.04		1	23.50	23.04		1	23.50
		12	7	23.07		1	23.50	23.07		1	23.50
		12	13	23.06		1	23.50	23.06		1	23.50
		25	0	23.09		1	23.50	23.09		1	23.50
	16QAM	1	0	23.43		1	23.50	23.43		1	23.50
		1	12	23.46		1	23.50	23.46		1	23.50
		1	24	23.36		1	23.50	23.36		1	23.50
		12	0	22.02		2	22.50	22.02		2	22.50
		12	7	22.05		2	22.50	22.05		2	22.50
	64QAM	12	13	22.03		2	22.50	22.03		2	22.50
		25	0	22.02		2	22.50	22.02		2	22.50
		1	0	22.45		2	22.50	22.45		2	22.50
		1	12	22.13		2	22.50	22.13		2	22.50
		1	24	22.13		2	22.50	22.13		2	22.50
		12	0	20.73		3	21.50	20.73		3	21.50
		12	7	20.69		3	21.50	20.69		3	21.50
		12	13	20.71		3	21.50	20.71		3	21.50
		25	0	20.79		3	21.50	20.79		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	25.24	25.34	25.26	0	25.70	21.53	21.50	21.55	0	21.75
		1	49	25.40	25.40	25.28	0	25.70	21.60	21.50	21.70	0	21.75
		1	99	25.35	25.28	25.18	0	25.70	21.57	21.50	21.46	0	21.75
		50	0	24.19	24.18	24.22	1	24.70	21.45	21.45	21.53	0	21.75
		50	24	24.30	24.30	24.35	1	24.70	21.60	21.50	21.70	0	21.75
		50	50	24.28	24.26	24.32	1	24.70	21.60	21.50	21.58	0	21.75
	16QAM	100	0	24.26	24.30	24.31	1	24.70	21.60	21.60	21.60	0	21.75
		1	0	24.56	24.51	24.60	1	24.70	21.52	21.62	21.53	0	21.75
		1	49	24.66	24.51	24.66	1	24.70	21.52	21.44	21.47	0	21.75
		1	99	24.69	24.63	24.55	1	24.70	21.56	21.55	21.42	0	21.75
		50	0	23.24	23.27	23.30	2	23.70	21.61	21.62	21.60	0	21.75
		50	24	23.35	23.27	23.37	2	23.70	21.66	21.59	21.59	0	21.75
	64QAM	50	50	23.38	23.33	23.43	2	23.70	21.67	21.63	21.68	0	21.75
		100	0	23.35	23.26	23.35	2	23.70	21.61	21.54	21.63	0	21.75
		1	0	23.38	23.46	23.34	2	23.70	21.66	21.73	21.64	0	21.75
		1	49	23.46	23.22	23.36	2	23.70	21.67	21.56	21.61	0	21.75
		1	99	23.45	23.40	23.33	2	23.70	21.70	21.62	21.61	0	21.75
		50	0	22.27	22.26	22.26	3	22.70	21.66	21.59	21.64	0	21.75
		50	24	22.31	22.29	22.25	3	22.70	21.35	21.56	21.69	0	21.75
		50	50	22.35	22.31	22.37	3	22.70	21.36	21.65	21.35	0	21.75
		100	0	22.35	22.21	22.26	3	22.70	21.74	21.55	21.69	0	21.75
15 MHz	QPSK	1	0	25.16	25.25	25.13	0	25.70	21.46	21.56	21.45	0	21.75
		1	37	25.22	25.18	25.28	0	25.70	21.50	21.46	21.54	0	21.75
		1	74	25.29	25.21	25.20	0	25.70	21.53	21.50	21.44	0	21.75
		36	0	24.15	24.17	24.24	1	24.70	21.48	21.46	21.50	0	21.75
		36	20	24.24	24.16	24.29	1	24.70	21.52	21.46	21.53	0	21.75
		36	39	24.30	24.23	24.35	1	24.70	21.54	21.44	21.61	0	21.75
	16QAM	75	0	24.24	24.22	24.27	1	24.70	21.55	21.43	21.55	0	21.75
		1	0	24.51	24.63	24.55	1	24.70	21.38	21.49	21.37	0	21.75
		1	37	24.65	24.51	24.63	1	24.70	21.45	21.71	21.52	0	21.75
		1	74	24.67	24.54	24.49	1	24.70	21.52	21.75	21.74	0	21.75
		36	0	23.26	23.27	23.31	2	23.70	21.54	21.53	21.62	0	21.75
		36	20	23.34	23.25	23.34	2	23.70	21.60	21.57	21.63	0	21.75
	64QAM	36	39	23.35	23.29	23.41	2	23.70	21.69	21.60	21.67	0	21.75
		75	0	23.29	23.22	23.31	2	23.70	21.64	21.49	21.59	0	21.75
		1	0	23.53	23.57	23.48	2	23.70	21.42	21.47	21.42	0	21.75
		1	37	23.57	23.47	23.64	2	23.70	21.52	21.33	21.43	0	21.75
		1	74	23.62	23.54	23.49	2	23.70	21.50	21.35	21.45	0	21.75
		36	0	22.22	22.31	22.34	3	22.70	21.25	21.16	21.36	0	21.75
		36	20	22.28	22.30	22.35	3	22.70	21.36	21.16	21.37	0	21.75
		36	39	22.29	22.32	22.41	3	22.70	21.37	21.30	21.35	0	21.75
		75	0	22.26	22.23	22.31	3	22.70	21.30	21.20	21.28	0	21.75
10 MHz	QPSK	1	0	24.85	24.74	24.79	0	25.70	21.50	21.53	21.49	0	21.75
		1	25	24.80	24.70	24.91	0	25.70	21.43	21.45	21.63	0	21.75
		1	49	24.92	24.85	24.78	0	25.70	21.51	21.52	21.59	0	21.75
		25	0	23.80	23.78	23.86	1	24.70	21.53	21.51	21.46	0	21.75
		25	12	23.78	23.76	23.93	1	24.70	21.52	21.50	21.54	0	21.75
		25	25	23.86	23.74	23.85	1	24.70	21.55	21.52	21.54	0	21.75
	16QAM	50	0	23.79	23.74	23.91	1	24.70	21.50	21.53	21.57	0	21.75
		1	0	24.16	24.10	24.15	1	24.70	21.42	21.42	21.39	0	21.75
		1	25	24.10	24.02	24.17	1	24.70	21.73	21.36	21.46	0	21.75
		1	49	24.20	24.09	24.05	1	24.70	21.48	21.51	21.38	0	21.75
		25	0	22.81	22.80	22.95	2	23.70	21.55	21.52	21.59	0	21.75
		25	12	22.79	22.77	22.93	2	23.70	21.53	21.53	21.61	0	21.75
	64QAM	25	25	22.88	22.76	22.86	2	23.70	21.61	21.57	21.58	0	21.75
		50	0	22.77	22.76	22.93	2	23.70	21.56	21.55	21.62	0	21.75
		1	0	22.99	23.02	23.04	2	23.70	21.74	21.65	21.75	0	21.75
		1	25	22.92	22.93	23.12	2	23.70	21.67	21.61	21.43	0	21.75
		1	49	23.12	23.09	22.95	2	23.70	21.39	21.73	21.72	0	21.75
		25	0	21.84	21.80	21.92	3	22.70	21.70	21.62	21.69	0	21.75
		25	12	21.84	21.77	21.97	3	22.70	21.70	21.60	21.38	0	21.75
		25	25	21.95	21.78	21.90	3	22.70	21.38	21.62	21.74	0	21.75
		50	0	21.84	21.79	21.94	3	22.70	21.66	21.63	21.72	0	21.75

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	25.15	25.11	25.26	0	25.70	21.24	21.24	21.34	0	21.75
		1	12	25.12	25.05	25.22	0	25.70	21.21	21.75	21.34	0	21.75
		1	24	25.14	25.06	25.12	0	25.70	21.19	21.13	21.23	0	21.75
		12	0	24.06	23.97	24.21	1	24.70	21.15	21.73	21.26	0	21.75
		12	7	24.02	23.94	24.17	1	24.70	21.74	21.72	21.25	0	21.75
		12	13	24.01	23.95	24.16	1	24.70	21.75	21.72	21.25	0	21.75
	16QAM	25	0	24.01	23.98	24.22	1	24.70	21.17	21.16	21.30	0	21.75
		1	0	24.58	24.54	24.69	1	24.70	21.70	21.66	21.06	0	21.75
		1	12	24.49	24.44	24.68	1	24.70	21.64	21.54	21.69	0	21.75
		1	24	24.54	24.49	24.53	1	24.70	21.62	21.56	21.66	0	21.75
		12	0	23.11	23.04	23.17	2	23.70	21.18	21.74	21.25	0	21.75
		12	7	23.06	23.01	23.16	2	23.70	21.75	21.72	21.21	0	21.75
	64QAM	12	13	23.05	22.99	23.12	2	23.70	21.74	21.71	21.19	0	21.75
		25	0	23.03	22.99	23.15	2	23.70	21.15	21.71	21.22	0	21.75
		1	0	23.43	23.33	23.52	2	23.70	21.52	21.11	21.63	0	21.75
		1	12	23.37	23.38	23.45	2	23.70	21.53	21.48	21.58	0	21.75
		1	24	23.39	23.38	23.40	2	23.70	21.51	21.40	21.56	0	21.75
		12	0	22.10	22.08	22.26	3	22.70	21.41	21.45	21.67	0	21.75
3 MHz	QPSK	12	7	22.07	22.02	22.21	3	22.70	21.40	21.46	21.63	0	21.75
		12	13	22.07	22.01	22.17	3	22.70	21.38	21.46	21.55	0	21.75
		25	0	22.02	21.98	22.20	3	22.70	21.43	21.38	21.56	0	21.75
	16QAM	1	0	25.05	24.98	25.15	0	25.70	21.61	21.65	21.63	0	21.75
		1	8	25.10	25.01	25.14	0	25.70	21.62	21.71	21.65	0	21.75
		1	14	25.08	25.02	25.04	0	25.70	21.56	21.70	21.74	0	21.75
		8	0	23.97	23.91	24.01	1	24.70	21.65	21.57	21.73	0	21.75
		8	4	23.96	23.90	24.00	1	24.70	21.62	21.50	21.65	0	21.75
		8	7	23.98	23.87	23.87	1	24.70	21.63	21.52	21.57	0	21.75
	64QAM	15	0	23.98	23.85	23.99	1	24.70	21.64	21.54	21.69	0	21.75
		1	0	24.37	24.29	24.39	1	24.70	21.66	21.50	21.70	0	21.75
		1	8	24.38	24.37	24.34	1	24.70	21.74	21.59	21.73	0	21.75
		1	14	24.32	24.28	24.29	1	24.70	21.63	21.58	21.57	0	21.75
		8	0	22.95	22.88	23.05	2	23.70	21.68	21.58	21.36	0	21.75
		8	4	22.91	22.85	22.99	2	23.70	21.68	21.58	21.73	0	21.75
1.4 MHz	QPSK	8	7	22.96	22.84	22.90	2	23.70	21.68	21.56	21.66	0	21.75
		15	0	22.97	22.82	22.96	2	23.70	21.65	21.56	21.66	0	21.75
	16QAM	1	0	23.22	23.10	23.18	2	23.70	21.48	21.52	21.49	0	21.75
		1	8	23.31	23.24	23.30	2	23.70	21.62	21.50	21.66	0	21.75
		1	14	23.18	23.17	23.14	2	23.70	21.52	21.43	21.49	0	21.75
		8	0	21.89	21.84	21.94	3	22.70	21.27	21.25	21.38	0	21.75
	64QAM	8	4	21.88	21.80	21.88	3	22.70	21.28	21.26	21.32	0	21.75
		8	7	21.87	21.80	21.84	3	22.70	21.28	21.21	21.27	0	21.75
		15	0	21.87	21.81	21.93	3	22.70	21.27	21.18	21.38	0	21.75
	QPSK	1	0	25.19	25.22	25.20	0	25.70	21.42	21.28	21.42	0	21.75
		1	3	25.14	25.15	25.19	0	25.70	21.36	21.28	21.37	0	21.75
		1	5	25.16	25.14	25.15	0	25.70	21.42	21.31	21.42	0	21.75
		3	0	25.22	25.17	25.21	0	25.70	21.73	21.58	21.68	0	21.75
		3	1	25.22	25.18	25.23	0	25.70	21.65	21.58	21.61	0	21.75
		3	3	25.26	25.20	25.18	0	25.70	21.67	21.55	21.60	0	21.75
	16QAM	6	0	24.66	24.67	24.54	1	24.70	21.62	21.49	21.51	0	21.75
		1	0	24.67	24.58	24.62	1	24.70	21.63	21.54	21.70	0	21.75
		1	3	24.64	24.54	24.62	1	24.70	21.63	21.52	21.63	0	21.75
		1	5	24.63	24.52	24.61	1	24.70	21.67	21.62	21.69	0	21.75
		3	0	24.43	24.43	24.43	1	24.70	21.42	21.36	21.42	0	21.75
		3	1	24.43	24.40	24.42	1	24.70	21.41	21.73	21.40	0	21.75
	64QAM	3	3	24.44	24.43	24.42	1	24.70	21.73	21.74	21.40	0	21.75
		6	0	23.69	23.68	23.68	2	23.70	21.68	21.65	21.69	0	21.75
		1	0	23.38	23.41	23.34	2	23.70	21.62	21.69	21.55	0	21.75
		1	3	23.42	23.38	23.36	2	23.70	21.47	21.62	21.47	0	21.75
		1	5	23.36	23.35	23.38	2	23.70	21.58	21.72	21.54	0	21.75
		3	0	23.34	23.34	23.31	2	23.70	21.42	21.42	21.36	0	21.75
	64QAM	3	1	23.34	23.34	23.29	2	23.70	21.42	21.40	21.74	0	21.75
		3	3	23.33	23.32	23.29	2	23.70	21.40	21.39	21.36	0	21.75
		6	0	22.63	22.61	22.61	3	22.70	21.37	21.26	21.36	0	21.75

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	20.23	20.20	20.20	0	20.50	18.11	18.21	18.10	0	18.50
		1	49	20.50	20.30	20.20	0	20.50	18.50	18.30	18.10	0	18.50
		1	99	20.37	20.20	20.20	0	20.50	18.27	18.23	18.10	0	18.50
		50	0	20.25	20.33	20.22	0	20.50	18.08	18.09	18.00	0	18.50
		50	24	20.50	20.50	20.30	0	20.50	18.40	18.20	18.00	0	18.50
		50	50	20.38	20.32	20.30	0	20.50	18.20	18.05	18.00	0	18.50
		100	0	20.50	20.40	20.30	0	20.50	18.20	18.20	18.10	0	18.50
	16QAM	1	0	20.30	20.30	20.30	0	20.50	18.46	18.41	18.37	0	18.50
		1	49	20.30	20.30	20.30	0	20.50	18.32	18.38	18.39	0	18.50
		1	99	20.30	20.30	20.30	0	20.50	18.50	18.45	18.43	0	18.50
		50	0	20.27	20.32	20.29	0	20.50	18.16	18.14	18.12	0	18.50
		50	24	20.35	20.25	20.25	0	20.50	18.23	18.08	18.09	0	18.50
		50	50	20.42	20.28	20.46	0	20.50	18.29	18.11	18.22	0	18.50
		100	0	20.37	20.25	20.30	0	20.50	18.23	18.07	18.11	0	18.50
	64QAM	1	0	20.41	20.36	20.44	0	20.50	18.34	18.45	18.47	0	18.50
		1	49	20.30	20.31	20.44	0	20.50	18.49	18.46	18.41	0	18.50
		1	99	20.41	20.32	20.30	0	20.50	18.36	18.43	18.45	0	18.50
		50	0	20.41	20.39	20.34	0	20.50	18.13	18.19	18.08	0	18.50
		50	24	20.47	20.31	20.31	0	20.50	18.17	18.12	18.05	0	18.50
		50	50	20.30	20.34	20.44	0	20.50	18.24	18.13	18.21	0	18.50
		100	0	20.45	20.29	20.31	0	20.50	18.19	18.10	18.13	0	18.50
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	20.27	20.37	20.27	0	20.50	18.11	18.25	18.00	0	18.50
		1	37	20.44	20.28	20.33	0	20.50	18.25	18.01	18.12	0	18.50
		1	74	20.49	20.32	20.39	0	20.50	18.20	18.15	18.12	0	18.50
		36	0	20.25	20.29	20.20	0	20.50	18.10	18.13	17.99	0	18.50
		36	20	20.38	20.25	20.26	0	20.50	18.17	18.04	18.08	0	18.50
		36	39	20.40	20.26	20.36	0	20.50	18.18	18.03	18.17	0	18.50
		75	0	20.38	20.26	20.32	0	20.50	18.16	18.05	18.13	0	18.50
	16QAM	1	0	20.39	20.31	20.34	0	20.50	18.38	18.33	18.32	0	18.50
		1	37	20.48	20.31	20.36	0	20.50	18.45	18.34	18.47	0	18.50
		1	74	20.37	20.48	20.49	0	20.50	18.46	18.50	18.34	0	18.50
		36	0	20.32	20.39	20.25	0	20.50	18.06	18.12	18.04	0	18.50
		36	20	20.46	20.35	20.36	0	20.50	18.22	18.06	18.11	0	18.50
		36	39	20.48	20.35	20.48	0	20.50	18.25	18.05	18.24	0	18.50
		75	0	20.44	20.28	20.35	0	20.50	18.22	18.04	18.12	0	18.50
	64QAM	1	0	20.34	20.49	20.40	0	20.50	18.48	18.37	18.39	0	18.50
		1	37	20.44	20.37	20.48	0	20.50	18.35	18.36	18.47	0	18.50
		1	74	20.35	20.49	20.41	0	20.50	18.37	18.50	18.31	0	18.50
		36	0	20.29	20.39	20.29	0	20.50	18.15	18.06	18.06	0	18.50
		36	20	20.42	20.31	20.39	0	20.50	18.19	18.00	18.13	0	18.50
		36	39	20.44	20.30	20.44	0	20.50	18.20	17.98	18.21	0	18.50
		75	0	20.39	20.27	20.37	0	20.50	18.18	18.02	18.14	0	18.50
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	20.32	20.38	20.42	0	20.50	18.12	18.14	18.08	0	18.50
		1	25	20.33	20.30	20.47	0	20.50	18.09	18.04	18.16	0	18.50
		1	49	20.47	20.29	20.45	0	20.50	18.26	18.10	18.12	0	18.50
		25	0	20.25	20.21	20.37	0	20.50	18.13	18.09	18.06	0	18.50
		25	12	20.26	20.21	20.39	0	20.50	18.12	18.08	18.15	0	18.50
		25	25	20.43	20.24	20.41	0	20.50	18.24	18.10	18.18	0	18.50
		50	0	20.37	20.24	20.43	0	20.50	18.17	18.11	18.16	0	18.50
	16QAM	1	0	20.48	20.40	20.44	0	20.50	18.35	18.40	18.46	0	18.50
		1	25	20.44	20.36	20.33	0	20.50	18.33	18.32	18.34	0	18.50
		1	49	20.44	20.41	20.45	0	20.50	18.49	18.36	18.30	0	18.50
		25	0	20.32	20.31	20.42	0	20.50	18.14	18.19	18.11	0	18.50
		25	12	20.31	20.32	20.50	0	20.50	18.13	18.18	18.19	0	18.50
		25	25	20.48	20.33	20.50	0	20.50	18.27	18.18	18.18	0	18.50
		50	0	20.33	20.25	20.30	0	20.50	18.20	18.11	18.14	0	18.50
	64QAM	1	0	20.46	20.32	20.39	0	20.50	18.40	18.33	18.34	0	18.50
		1	25	20.37	20.44	20.40	0	20.50	18.28	18.33	18.13	0	18.50
		1	49	20.38	20.48	20.36	0	20.50	18.30	18.40	18.20	0	18.50
		25	0	20.32	20.31	20.38	0	20.50	18.15	18.18	18.12	0	18.50
		25	12	20.31	20.30	20.46	0	20.50	18.14	18.18	18.24	0	18.50
		25	25	20.43	20.31	20.48	0	20.50	18.27	18.10	18.31	0	18.50
		50	0	20.37	20.31	20.46	0	20.50	18.17	18.11	18.24	0	18.5

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	20.30	20.26	20.40	0	20.50	18.08	18.01	18.17	0	18.50
		1	12	20.25	20.20	20.37	0	20.50	18.00	18.00	18.19	0	18.50
		1	24	20.26	20.21	20.26	0	20.50	18.03	18.02	18.11	0	18.50
		12	0	20.17	20.13	20.25	0	20.50	17.93	17.96	18.10	0	18.50
		12	7	20.08	20.15	20.26	0	20.50	17.93	17.93	18.11	0	18.50
		12	13	20.10	20.10	20.23	0	20.50	17.93	17.94	18.05	0	18.50
	16QAM	25	0	20.10	20.12	20.31	0	20.50	17.94	17.93	18.12	0	18.50
		1	0	20.44	20.40	20.37	0	20.50	18.47	18.37	18.17	0	18.50
		1	12	20.36	20.39	20.34	0	20.50	18.39	18.35	18.15	0	18.50
		1	24	20.41	20.40	20.45	0	20.50	18.39	18.35	18.50	0	18.50
		12	0	20.13	20.15	20.23	0	20.50	17.98	17.92	18.06	0	18.50
		12	7	20.13	20.15	20.25	0	20.50	17.95	17.92	18.06	0	18.50
	64QAM	12	13	20.14	20.15	20.18	0	20.50	17.95	17.90	18.00	0	18.50
		25	0	20.13	20.14	20.25	0	20.50	17.91	17.89	18.03	0	18.50
		1	0	20.32	20.34	20.47	0	20.50	18.41	18.41	18.21	0	18.50
		1	12	20.47	20.48	20.42	0	20.50	18.35	18.40	18.49	0	18.50
		1	24	20.46	20.30	20.35	0	20.50	18.39	18.37	18.42	0	18.50
		12	0	20.11	20.22	20.32	0	20.50	17.95	18.02	18.04	0	18.50
3 MHz	QPSK	12	7	20.13	20.22	20.34	0	20.50	17.98	18.03	18.06	0	18.50
		12	13	20.13	20.21	20.27	0	20.50	17.99	17.98	18.02	0	18.50
		25	0	20.09	20.12	20.33	0	20.50	17.90	17.89	18.05	0	18.50
	16QAM	1	0	20.19	20.18	20.40	0	20.50	17.89	17.87	18.09	0	18.50
		1	8	20.26	20.23	20.35	0	20.50	17.96	17.92	18.06	0	18.50
		1	14	20.21	20.11	20.19	0	20.50	17.87	17.85	17.95	0	18.50
		8	0	20.03	19.99	20.16	0	20.50	17.79	17.80	17.96	0	18.50
		8	4	20.02	19.99	20.12	0	20.50	17.79	17.80	17.92	0	18.50
		8	7	20.03	20.00	20.12	0	20.50	17.79	17.81	17.94	0	18.50
	64QAM	15	0	20.04	20.02	20.15	0	20.50	17.80	17.79	17.99	0	18.50
		1	0	20.47	20.43	20.35	0	20.50	18.27	18.23	18.43	0	18.50
		1	8	20.44	20.42	20.35	0	20.50	18.32	18.31	18.47	0	18.50
		1	14	20.37	20.34	20.42	0	20.50	18.34	18.23	18.36	0	18.50
		8	0	20.01	20.01	20.19	0	20.50	17.80	17.79	17.96	0	18.50
		8	4	20.00	19.98	20.12	0	20.50	17.78	17.80	17.87	0	18.50
1.4 MHz	QPSK	8	7	19.99	20.00	20.12	0	20.50	17.78	17.77	17.86	0	18.50
		15	0	19.96	19.96	20.07	0	20.50	17.80	17.80	17.88	0	18.50
	16QAM	1	0	20.40	20.30	20.36	0	20.50	18.19	18.12	18.24	0	18.50
		1	8	20.46	20.40	20.30	0	20.50	18.28	18.19	18.32	0	18.50
		1	14	20.30	20.26	20.37	0	20.50	18.17	18.05	18.14	0	18.50
		8	0	20.01	20.01	20.16	0	20.50	17.87	17.80	17.97	0	18.50
	64QAM	8	4	19.99	20.02	20.10	0	20.50	17.91	17.82	17.89	0	18.50
		8	7	19.98	20.01	20.09	0	20.50	17.94	17.83	17.87	0	18.50
		15	0	19.99	20.00	20.09	0	20.50	17.89	17.80	17.87	0	18.50
	QPSK	1	0	20.18	20.23	20.34	0	20.50	17.73	17.88	18.08	0	18.50
		1	3	20.16	20.23	20.28	0	20.50	17.92	17.88	18.03	0	18.50
		1	5	20.20	20.20	20.25	0	20.50	17.90	17.87	17.99	0	18.50
		3	0	20.07	20.07	20.13	0	20.50	17.79	17.73	17.92	0	18.50
		3	1	20.07	20.06	20.15	0	20.50	17.78	17.73	17.92	0	18.50
		3	3	20.07	20.08	20.15	0	20.50	17.79	17.73	17.90	0	18.50
	16QAM	6	0	20.02	20.01	20.08	0	20.50	17.75	17.71	17.90	0	18.50
		1	0	20.43	20.46	20.47	0	20.50	18.21	18.24	18.46	0	18.50
		1	3	20.39	20.48	20.43	0	20.50	18.20	18.26	18.45	0	18.50
		1	5	20.43	20.46	20.44	0	20.50	18.28	18.23	18.37	0	18.50
		3	0	20.21	20.19	20.25	0	20.50	17.90	17.91	18.05	0	18.50
		3	1	20.18	20.17	20.20	0	20.50	17.91	17.92	18.04	0	18.50
1.4 MHz	64QAM	3	3	20.20	20.18	20.17	0	20.50	17.96	17.91	18.05	0	18.50
		6	0	20.02	20.07	20.09	0	20.50	17.83	17.81	17.92	0	18.50
		1	0	20.41	20.45	20.31	0	20.50	18.15	18.16	18.31	0	18.50
		1	3	20.36	20.41	20.45	0	20.50	18.13	18.25	18.21	0	18.50
		1	5	20.40	20.45	20.32	0	20.50	18.18	18.15	18.19	0	18.50
		3	0	20.43	20.47	20.44	0	20.50	17.90	17.88	18.08	0	18.50
	QPSK	3	1	20.44	20.46	20.42	0	20.50	17.90	17.91	18.05	0	18.50
		3	3	20.46	20.48	20.44	0	20.50	17.95	17.91	18.10	0	18.50
		6	0	20.02	20.06	20.12	0	20.50	17.79	17.82	17.83	0	18.50

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	24.53	24.68	24.56	0	25.00	18.80	19.00	19.03	0	19.75
		1	49	24.99	24.80	24.72	0	25.00	19.50	19.60	19.40	0	19.75
		1	99	24.70	24.64	24.34	0	25.00	19.03	18.82	18.82	0	19.75
		50	0	23.50	23.78	23.58	1	24.00	18.98	18.94	18.82	0	19.75
		50	24	23.90	23.88	23.74	1	24.00	19.50	19.60	19.40	0	19.75
		50	50	23.57	23.71	23.32	1	24.00	18.83	18.80	18.87	0	19.75
		100	0	23.93	23.85	23.66	1	24.00	19.50	19.60	19.35	0	19.75
	16QAM	1	0	23.75	23.98	23.90	1	24.00	18.84	19.46	19.34	0	19.75
		1	49	23.99	23.83	23.92	1	24.00	19.22	19.40	19.27	0	19.75
		1	99	23.88	23.87	23.72	1	24.00	19.28	19.25	19.31	0	19.75
		50	0	22.55	22.75	22.60	2	23.00	18.91	19.13	18.98	0	19.75
		50	24	22.68	22.87	22.57	2	23.00	18.92	19.10	19.04	0	19.75
		50	50	22.69	22.76	22.39	2	23.00	18.83	18.95	19.10	0	19.75
		100	0	22.65	22.84	22.58	2	23.00	18.85	18.99	19.04	0	19.75
	64QAM	1	0	22.99	22.79	22.59	2	23.00	18.82	19.15	19.27	0	19.75
		1	49	22.60	22.60	22.40	2	23.00	18.90	19.22	19.12	0	19.75
		1	99	22.25	22.97	22.96	2	23.00	18.84	19.08	19.03	0	19.75
		50	0	21.90	21.06	21.56	3	22.00	18.87	19.03	18.94	0	19.75
		50	24	21.93	21.71	21.56	3	22.00	19.02	19.02	19.04	0	19.75
		50	50	21.97	21.89	21.72	3	22.00	18.97	19.02	19.04	0	19.75
		100	0	21.99	21.95	21.76	3	22.00	18.97	18.85	19.11	0	19.75
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	24.48	24.63	24.57	0	25.00	18.79	18.90	18.80	0	19.75
		1	37	24.61	24.81	24.45	0	25.00	18.79	19.08	18.84	0	19.75
		1	74	24.63	24.62	24.31	0	25.00	18.85	18.86	18.86	0	19.75
		36	0	23.46	23.71	23.65	1	24.00	18.87	18.98	18.83	0	19.75
		36	20	23.68	23.83	23.44	1	24.00	18.88	19.01	18.87	0	19.75
		36	39	23.67	23.74	23.40	1	24.00	18.82	19.05	18.83	0	19.75
		75	0	23.60	23.79	23.40	1	24.00	18.93	19.05	18.89	0	19.75
	16QAM	1	0	23.76	23.85	23.99	1	24.00	19.10	19.31	19.06	0	19.75
		1	37	23.92	23.94	23.76	1	24.00	19.16	19.42	19.22	0	19.75
		1	74	23.95	23.83	23.72	1	24.00	19.08	19.24	19.25	0	19.75
		36	0	22.49	22.79	22.68	2	23.00	18.80	19.14	19.00	0	19.75
		36	20	22.71	22.85	22.43	2	23.00	19.01	19.17	19.07	0	19.75
		36	39	22.71	22.76	22.41	2	23.00	18.81	19.19	18.92	0	19.75
		75	0	22.68	22.80	22.40	2	23.00	18.93	19.20	18.94	0	19.75
	64QAM	1	0	22.77	22.98	22.84	2	23.00	19.23	19.38	19.03	0	19.75
		1	37	22.36	22.30	22.96	2	23.00	19.34	19.44	19.16	0	19.75
		1	74	22.01	22.01	22.05	2	23.00	19.22	19.20	19.16	0	19.75
		36	0	21.72	21.96	21.91	3	22.00	18.99	19.18	18.94	0	19.75
		36	20	21.83	21.96	21.90	3	22.00	19.21	19.20	19.00	0	19.75
		36	39	21.81	21.70	21.72	3	22.00	19.14	19.22	19.03	0	19.75
		75	0	21.81	21.40	21.51	3	22.00	19.12	19.20	18.89	0	19.75
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	24.54	24.66	24.62	0	25.00	18.80	18.97	19.02	0	19.75
		1	25	24.51	24.77	24.42	0	25.00	18.76	18.96	19.05	0	19.75
		1	49	24.63	24.64	24.32	0	25.00	18.84	18.82	18.98	0	19.75
		25	0	23.54	23.82	23.37	1	24.00	18.78	18.83	19.00	0	19.75
		25	12	23.51	23.82	23.35	1	24.00	18.84	18.84	18.99	0	19.75
		25	25	23.65	23.81	23.42	1	24.00	18.89	18.90	18.91	0	19.75
		50	0	23.51	23.82	23.38	1	24.00	18.81	18.81	18.99	0	19.75
	16QAM	1	0	23.85	23.72	23.92	1	24.00	19.20	19.08	19.29	0	19.75
		1	25	23.74	23.78	23.70	1	24.00	19.24	19.34	19.33	0	19.75
		1	49	23.91	23.71	23.67	1	24.00	19.17	19.32	19.28	0	19.75
		25	0	22.55	22.88	22.45	2	23.00	18.95	19.13	19.03	0	19.75
		25	12	22.50	22.85	22.44	2	23.00	18.91	19.15	19.03	0	19.75
		25	25	22.64	22.83	22.48	2	23.00	19.03	19.19	18.91	0	19.75
		50	0	22.51	22.83	22.46	2	23.00	18.90	19.13	19.00	0	19.75
	64QAM	1	0	22.70	22.93	22.82	2	23.00	18.98	18.94	19.24	0	19.75
		1	25	22.71	22.92	22.72	2	23.00	19.06	19.25	19.25	0	19.75
		1	49	22.67	22.96	22.71	2	23.00	19.14	19.29	19.17	0	19.75
		25	0	21.59	21.79	21.64	3	22.00	19.02	19.19	19.11	0	19.75
		25	12	21.58	21.79	21.57	3	22.00	18.97	19.19	19.08	0	19.75
		25	25	21.70	21.82	21.45	3	22.00	19.08	19.22	19.01	0	19.75
		50	0	21.55	21.77	21.59	3	22.00	18.93	19.23	19.11	0	19.75

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	24.46	24.77	24.43	0	25.00	18.91	19.00	18.96	0	19.75
		1	12	24.43	24.73	24.44	0	25.00	18.89	18.97	18.87	0	19.75
		1	24	24.42	24.73	24.31	0	25.00	18.93	18.92	18.78	0	19.75
		12	0	23.32	23.67	23.29	1	24.00	18.86	18.87	18.91	0	19.75
		12	7	23.32	23.65	23.36	1	24.00	18.86	18.87	18.84	0	19.75
		12	13	23.31	23.63	23.36	1	24.00	18.82	18.88	18.83	0	19.75
	16QAM	25	0	23.36	23.65	23.39	1	24.00	18.87	18.91	18.87	0	19.75
		1	0	23.86	23.76	23.85	1	24.00	19.25	19.40	19.39	0	19.75
		1	12	23.83	23.73	23.86	1	24.00	19.29	19.41	19.33	0	19.75
		1	24	23.80	23.70	23.73	1	24.00	19.35	19.48	19.39	0	19.75
		12	0	22.31	22.64	22.35	2	23.00	18.90	18.99	18.86	0	19.75
		12	7	22.32	22.63	22.37	2	23.00	18.87	18.98	18.77	0	19.75
	64QAM	12	13	22.29	22.67	22.32	2	23.00	18.84	18.98	18.77	0	19.75
		25	0	22.36	22.62	22.30	2	23.00	18.90	18.98	18.79	0	19.75
		1	0	22.62	22.78	22.81	2	23.00	19.22	19.39	19.29	0	19.75
		1	12	22.64	22.87	22.67	2	23.00	19.25	19.29	19.24	0	19.75
		1	24	22.90	22.90	22.73	2	23.00	19.05	19.40	19.20	0	19.75
		12	0	21.59	21.57	21.40	3	22.00	18.90	19.00	18.91	0	19.75
3 MHz	QPSK	12	7	21.70	21.51	21.27	3	22.00	18.87	19.01	18.85	0	19.75
		12	13	21.72	21.54	21.24	3	22.00	18.83	19.02	18.81	0	19.75
		25	0	21.56	21.55	21.27	3	22.00	18.90	18.97	18.80	0	19.75
	16QAM	1	0	24.34	24.63	24.33	0	25.00	18.78	19.07	19.18	0	19.75
		1	8	24.44	24.66	24.34	0	25.00	19.31	19.09	19.01	0	19.75
		1	14	24.33	24.61	24.23	0	25.00	19.25	19.09	19.05	0	19.75
		8	0	23.20	23.52	23.17	1	24.00	19.14	18.96	18.88	0	19.75
		8	4	23.19	23.51	23.16	1	24.00	18.98	19.12	18.83	0	19.75
		8	7	23.21	23.51	23.14	1	24.00	19.02	19.16	18.80	0	19.75
	64QAM	15	0	23.23	23.54	23.18	1	24.00	19.05	19.20	18.83	0	19.75
		1	0	23.70	23.95	23.65	1	24.00	19.50	19.28	19.41	0	19.75
		1	8	23.69	23.96	23.68	1	24.00	19.64	19.34	19.47	0	19.75
		1	14	23.66	23.95	23.45	1	24.00	19.58	19.22	19.43	0	19.75
		8	0	22.22	22.50	22.17	2	23.00	19.19	19.13	19.07	0	19.75
		8	4	22.28	22.54	22.13	2	23.00	19.17	19.15	19.04	0	19.75
1.4 MHz	QPSK	8	7	22.27	22.55	22.10	2	23.00	19.19	19.18	19.10	0	19.75
		15	0	22.25	22.52	22.17	2	23.00	19.17	19.15	19.02	0	19.75
		1	0	22.91	22.72	22.42	2	23.00	19.39	19.48	19.44	0	19.75
		1	8	22.74	22.79	22.51	2	23.00	19.46	19.51	19.38	0	19.75
		1	14	22.51	22.74	22.43	2	23.00	19.41	19.54	19.29	0	19.75
		8	0	21.23	21.40	21.12	3	22.00	19.13	19.30	18.97	0	19.75
	16QAM	8	4	21.26	21.42	21.05	3	22.00	19.09	19.29	18.93	0	19.75
		8	7	21.31	21.37	21.11	3	22.00	18.89	19.32	19.00	0	19.75
		15	0	21.30	21.32	21.04	3	22.00	18.86	19.26	18.97	0	19.75
		1	0	24.40	24.65	24.35	0	25.00	19.25	18.94	18.89	0	19.75
		1	3	24.42	24.65	24.30	0	25.00	19.21	18.97	18.82	0	19.75
		1	5	24.40	24.69	24.28	0	25.00	19.29	19.00	18.85	0	19.75
	64QAM	3	0	24.30	24.54	24.12	0	25.00	19.18	18.82	19.04	0	19.75
		3	1	24.30	24.54	24.11	0	25.00	19.12	18.87	19.05	0	19.75
		3	3	24.30	24.55	24.09	0	25.00	19.09	19.14	19.02	0	19.75
		6	0	23.25	23.54	23.04	1	24.00	19.02	19.04	18.89	0	19.75
		1	0	23.64	23.99	23.63	1	24.00	19.42	19.31	19.04	0	19.75
		1	3	23.60	23.98	23.51	1	24.00	19.41	19.33	19.01	0	19.75
1.4 MHz	QPSK	1	5	23.63	24.00	23.55	1	24.00	19.43	19.32	19.01	0	19.75
		3	0	23.40	23.67	23.28	1	24.00	19.23	19.02	18.85	0	19.75
		3	1	23.36	23.63	23.26	1	24.00	19.18	18.90	19.13	0	19.75
		3	3	23.43	23.64	23.24	1	24.00	19.18	19.05	18.76	0	19.75
		6	0	22.27	22.46	22.18	2	23.00	19.08	18.86	19.11	0	19.75
		1	0	22.75	22.95	22.51	2	23.00	19.26	19.41	19.12	0	19.75
	16QAM	1	3	22.72	22.90	22.30	2	23.00	19.14	19.37	18.86	0	19.75
		1	5	22.63	22.94	22.69	2	23.00	19.30	19.36	19.01	0	19.75
		3	0	22.51	22.68	22.42	2	23.00	18.94	19.13	19.08	0	19.75
		3	1	22.48	22.61	22.43	2	23.00	18.90	19.09	18.83	0	19.75
		3	3	22.49	22.65	22.40	2	23.00	18.95	19.09	18.83	0	19.75
		6	0	21.33	21.46	21.22	3	22.00	19.07	18.93	19.11	0	19.75

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	18.36	18.24	18.16	0	18.75	19.74	19.80	19.82	0	20.00
		1	49	18.40	18.30	18.60	0	18.75	19.82	19.87	19.88	0	20.00
		1	99	18.34	17.89	17.87	0	18.75	19.70	19.67	19.80	0	20.00
		50	0	18.33	18.24	17.81	0	18.75	19.78	19.80	19.61	0	20.00
		50	24	18.40	18.30	18.60	0	18.75	19.80	19.87	19.87	0	20.00
		50	50	18.33	18.05	17.76	0	18.75	19.70	19.79	19.78	0	20.00
		100	0	18.40	18.30	18.60	0	18.75	19.79	19.84	19.93	0	20.00
	16QAM	1	0	18.64	18.62	18.22	0	18.75	19.75	19.71	19.73	0	20.00
		1	49	18.58	18.56	18.08	0	18.75	19.73	19.77	19.68	0	20.00
		1	99	18.66	18.23	18.14	0	18.75	19.72	19.48	19.71	0	20.00
		50	0	18.33	18.32	17.83	0	18.75	19.66	19.42	19.47	0	20.00
		50	24	18.29	18.22	17.80	0	18.75	19.58	19.74	19.57	0	20.00
		50	50	18.31	18.11	17.84	0	18.75	19.66	19.64	19.65	0	20.00
		100	0	18.27	18.16	17.85	0	18.75	19.57	19.71	19.59	0	20.00
	64QAM	1	0	18.43	18.25	18.05	0	18.75	19.68	19.75	19.76	0	20.00
		1	49	18.40	18.28	17.94	0	18.75	19.79	19.79	19.69	0	20.00
		1	99	18.50	17.94	17.86	0	18.75	19.66	19.46	19.70	0	20.00
		50	0	18.35	18.21	17.90	0	18.75	19.14	19.35	19.29	0	20.00
		50	24	18.33	18.12	17.79	0	18.75	19.14	19.27	19.04	0	20.00
		50	50	18.36	17.99	17.84	0	18.75	19.21	19.14	19.08	0	20.00
		100	0	18.31	18.09	17.76	0	18.75	19.12	19.16	19.00	0	20.00
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	17.95	17.83	17.82	0	18.75	19.58	19.77	19.39	0	20.00
		1	37	17.94	18.10	17.92	0	18.75	19.57	19.73	19.55	0	20.00
		1	74	17.94	17.81	17.76	0	18.75	19.62	19.48	19.55	0	20.00
		36	0	18.00	18.21	17.86	0	18.75	19.59	19.78	19.50	0	20.00
		36	20	17.93	18.17	17.87	0	18.75	19.64	19.76	19.51	0	20.00
		36	39	17.89	18.02	17.91	0	18.75	19.63	19.64	19.58	0	20.00
		75	0	17.92	18.12	17.92	0	18.75	19.63	19.66	19.53	0	20.00
	16QAM	1	0	18.23	18.07	18.07	0	18.75	19.70	19.59	19.73	0	20.00
		1	37	18.21	17.99	17.80	0	18.75	19.76	19.56	19.65	0	20.00
		1	74	18.24	18.14	17.77	0	18.75	19.75	19.79	19.63	0	20.00
		36	0	18.03	17.86	17.95	0	18.75	19.67	19.44	19.59	0	20.00
		36	20	17.94	17.82	17.94	0	18.75	19.68	19.31	19.59	0	20.00
		36	39	17.82	18.06	17.97	0	18.75	19.68	19.71	19.63	0	20.00
		75	0	17.81	18.14	17.94	0	18.75	19.60	19.78	19.58	0	20.00
	64QAM	1	0	18.09	18.07	18.07	0	18.75	19.73	19.65	19.65	0	20.00
		1	37	18.09	17.98	17.88	0	18.75	19.68	19.68	19.77	0	20.00
		1	74	18.03	18.06	17.88	0	18.75	19.73	19.43	19.64	0	20.00
		36	0	17.85	17.89	18.09	0	18.75	19.13	19.37	19.11	0	20.00
		36	20	17.82	17.86	18.12	0	18.75	19.16	19.39	19.11	0	20.00
		36	39	17.82	18.11	17.79	0	18.75	19.15	19.22	19.15	0	20.00
		75	0	17.81	17.77	18.11	0	18.75	19.13	19.17	19.03	0	20.00
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	18.60	18.66	18.22	0	18.75	19.62	19.48	19.61	0	20.00
		1	25	18.60	18.60	18.28	0	18.75	19.60	19.80	19.65	0	20.00
		1	49	18.63	18.46	18.24	0	18.75	19.68	19.71	19.68	0	20.00
		25	0	18.55	18.61	18.17	0	18.75	19.58	19.44	19.55	0	20.00
		25	12	18.60	18.57	18.16	0	18.75	19.62	19.41	19.64	0	20.00
		25	25	18.61	18.51	18.18	0	18.75	19.65	19.72	19.61	0	20.00
		50	0	18.55	18.50	18.22	0	18.75	19.64	19.73	19.63	0	20.00
	16QAM	1	0	18.62	18.74	18.45	0	18.75	19.72	19.69	19.66	0	20.00
		1	25	18.62	18.67	18.50	0	18.75	19.67	19.63	19.75	0	20.00
		1	49	18.62	18.70	18.50	0	18.75	19.66	19.53	19.73	0	20.00
		25	0	18.57	18.71	18.21	0	18.75	19.57	19.47	19.66	0	20.00
		25	12	18.62	18.67	18.25	0	18.75	19.62	19.45	19.71	0	20.00
		25	25	18.63	18.56	18.25	0	18.75	19.70	19.77	19.70	0	20.00
		50	0	18.62	18.57	18.26	0	18.75	19.70	19.76	19.70	0	20.00
	64QAM	1	0	18.73	18.61	18.08	0	18.75	19.76	19.53	19.78	0	20.00
		1	25	18.57	18.56	18.11	0	18.75	19.61	19.53	19.62	0	20.00
		1	49	18.61	18.62	18.09	0	18.75	19.64	19.42	19.72	0	20.00
		25	0	18.62	18.68	17.80	0	18.75	19.04	19.35	19.11	0	20.00
		25	12	18.68	18.65	17.87	0	18.75	19.08	19.33	19.13	0	20.00
		25	25	18.70	18.60	17.88	0	18.75	19.11	19.27	19.11	0	20.00
		50	0	18.65	18.57	17.90	0	18.75	19.11	19.27	19.14	0	20.00

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	18.08	18.52	18.15	0	18.75	19.53	19.79	19.61	0	20.00
		1	12	18.06	18.41	18.13	0	18.75	19.49	19.71	19.59	0	20.00
		1	24	18.16	18.44	18.10	0	18.75	19.58	19.68	19.57	0	20.00
		12	0	18.03	18.43	18.06	0	18.75	19.45	19.67	19.54	0	20.00
		12	7	18.01	18.41	18.05	0	18.75	19.44	19.66	19.47	0	20.00
		12	13	18.08	18.36	17.99	0	18.75	19.51	19.59	19.47	0	20.00
	16QAM	25	0	18.00	18.37	18.01	0	18.75	19.46	19.61	19.51	0	20.00
		1	0	18.51	18.72	18.53	0	18.75	19.67	19.42	19.61	0	20.00
		1	12	18.48	18.62	18.50	0	18.75	19.75	19.70	19.76	0	20.00
		1	24	18.53	18.69	18.52	0	18.75	19.63	19.69	19.80	0	20.00
		12	0	18.06	18.47	17.98	0	18.75	19.50	19.73	19.51	0	20.00
		12	7	18.01	18.45	17.98	0	18.75	19.48	19.72	19.50	0	20.00
	64QAM	12	13	18.06	18.35	17.98	0	18.75	19.54	19.65	19.54	0	20.00
		25	0	17.96	18.32	18.00	0	18.75	19.49	19.64	19.57	0	20.00
		1	0	18.35	18.71	18.49	0	18.75	19.73	19.58	19.51	0	20.00
		1	12	18.36	18.63	18.49	0	18.75	19.71	19.61	19.71	0	20.00
		1	24	18.44	18.66	18.41	0	18.75	19.25	19.58	19.41	0	20.00
		12	0	18.10	18.44	18.09	0	18.75	19.25	19.18	19.01	0	20.00
3 MHz	QPSK	12	7	18.08	18.42	18.08	0	18.75	19.24	19.18	19.03	0	20.00
		12	13	18.17	18.38	18.07	0	18.75	19.33	19.13	19.04	0	20.00
		25	0	18.05	18.35	18.06	0	18.75	19.20	19.11	19.04	0	20.00
	16QAM	1	0	18.09	18.18	18.11	0	18.75	19.38	19.68	19.60	0	20.00
		1	8	18.15	18.19	18.17	0	18.75	19.45	19.67	19.56	0	20.00
		1	14	18.11	18.18	18.08	0	18.75	19.41	19.64	19.48	0	20.00
		8	0	18.02	18.10	18.01	0	18.75	19.32	19.58	19.42	0	20.00
		8	4	18.01	18.09	18.00	0	18.75	19.31	19.52	19.41	0	20.00
		8	7	18.02	18.05	17.92	0	18.75	19.29	19.45	19.35	0	20.00
	64QAM	15	0	18.03	18.06	17.95	0	18.75	19.27	19.46	19.46	0	20.00
		1	0	18.39	18.52	18.37	0	18.75	19.60	19.55	19.77	0	20.00
		1	8	18.44	18.48	18.42	0	18.75	19.71	19.47	19.61	0	20.00
		1	14	18.34	18.46	18.25	0	18.75	19.63	19.41	19.68	0	20.00
		8	0	18.07	18.14	17.98	0	18.75	19.30	19.57	19.39	0	20.00
		8	4	18.02	18.14	17.94	0	18.75	19.29	19.56	19.39	0	20.00
1.4 MHz	QPSK	8	7	18.05	18.09	17.90	0	18.75	19.28	19.48	19.34	0	20.00
		15	0	18.01	18.03	17.93	0	18.75	19.25	19.45	19.38	0	20.00
	16QAM	1	0	18.27	18.42	18.21	0	18.75	19.60	19.45	19.71	0	20.00
		1	8	18.25	18.26	18.19	0	18.75	19.71	19.47	19.61	0	20.00
		1	14	18.29	18.29	18.19	0	18.75	19.69	19.75	19.64	0	20.00
		8	0	17.99	18.07	17.79	0	18.75	19.16	19.34	19.19	0	20.00
	64QAM	8	4	17.97	18.07	17.77	0	18.75	19.15	19.34	19.17	0	20.00
		8	7	17.97	18.01	17.85	0	18.75	19.08	19.26	19.13	0	20.00
		15	0	17.97	18.01	17.80	0	18.75	19.10	19.25	19.20	0	20.00
	QPSK	1	0	18.22	18.24	18.05	0	18.75	19.45	19.77	19.58	0	20.00
		1	3	18.26	18.20	18.02	0	18.75	19.49	19.71	19.52	0	20.00
		1	5	18.22	18.14	18.10	0	18.75	19.52	19.70	19.59	0	20.00
		3	0	18.04	18.12	17.89	0	18.75	19.33	19.67	19.39	0	20.00
		3	1	18.08	18.11	17.86	0	18.75	19.37	19.61	19.31	0	20.00
		3	3	18.07	18.06	17.82	0	18.75	19.37	19.55	19.32	0	20.00
	16QAM	6	0	18.02	18.02	17.83	0	18.75	19.31	19.51	19.25	0	20.00
		1	0	18.43	18.44	18.31	0	18.75	19.68	19.56	19.73	0	20.00
		1	3	18.47	18.43	18.25	0	18.75	19.71	19.46	19.75	0	20.00
		1	5	18.49	18.39	18.31	0	18.75	19.72	19.50	19.61	0	20.00
		3	0	18.17	18.22	18.01	0	18.75	19.43	19.69	19.53	0	20.00
		3	1	18.25	18.24	17.99	0	18.75	19.49	19.68	19.49	0	20.00
1.4 MHz	64QAM	3	3	18.22	18.16	18.01	0	18.75	19.51	19.65	19.50	0	20.00
		6	0	18.17	18.06	17.93	0	18.75	19.39	19.57	19.43	0	20.00
		1	0	18.42	18.48	18.21	0	18.75	19.67	19.55	19.77	0	20.00
		1	3	18.31	18.40	18.24	0	18.75	19.70	19.46	19.76	0	20.00
		1	5	18.39	18.33	18.27	0	18.75	19.73	19.40	19.70	0	20.00
		3	0	18.15	18.22	17.95	0	18.75	19.54	19.68	19.50	0	20.00
	QPSK	3	1	18.21	18.22	17.96	0	18.75	19.56	19.71	19.52	0	20.00
		3	3	18.21	18.17	17.98	0	18.75	19.54	19.67	19.54	0	20.00
		6	0	18.12	18.08	17.86	0	18.75	19.23	19.39	19.24	0	20.00

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	25.62	25.40	25.36	0	25.70	25.62	25.40	25.36	0	25.70
		1	25	25.70	25.60	25.67	0	25.70	25.70	25.60	25.67	0	25.70
		1	49	25.45	25.44	25.52	0	25.70	25.45	25.44	25.52	0	25.70
		25	0	24.43	24.35	24.65	1	24.70	24.43	24.35	24.65	1	24.70
		25	12	24.46	24.42	24.70	1	24.70	24.46	24.42	24.70	1	24.70
		25	25	24.34	24.42	24.69	1	24.70	24.34	24.42	24.69	1	24.70
		50	0	24.49	24.38	24.67	1	24.70	24.49	24.38	24.67	1	24.70
	16QAM	1	0	24.52	24.56	24.63	1	24.70	24.52	24.56	24.63	1	24.70
		1	25	24.42	24.65	24.61	1	24.70	24.42	24.65	24.61	1	24.70
		1	49	24.41	24.63	24.66	1	24.70	24.41	24.63	24.66	1	24.70
		25	0	23.48	23.68	23.40	2	23.70	23.48	23.68	23.40	2	23.70
		25	12	23.49	23.49	23.35	2	23.70	23.49	23.49	23.35	2	23.70
		25	25	23.40	23.48	23.69	2	23.70	23.40	23.48	23.69	2	23.70
		50	0	23.50	23.49	23.69	2	23.70	23.50	23.49	23.69	2	23.70
	64QAM	1	0	23.40	23.44	23.51	2	23.70	23.40	23.44	23.51	2	23.70
		1	25	23.61	23.59	23.56	2	23.70	23.61	23.59	23.56	2	23.70
		1	49	23.66	23.62	23.63	2	23.70	23.66	23.62	23.63	2	23.70
		25	0	22.51	22.38	22.38	3	22.70	22.51	22.38	22.38	3	22.70
		25	12	22.53	22.43	22.32	3	22.70	22.53	22.43	22.32	3	22.70
		25	25	22.42	22.43	22.69	3	22.70	22.42	22.43	22.69	3	22.70
		50	0	22.56	22.42	22.69	3	22.70	22.56	22.42	22.69	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	25.55	25.38	25.69	0	25.70	25.55	25.38	25.69	0	25.70
		1	12	25.46	25.44	25.36	0	25.70	25.46	25.44	25.36	0	25.70
		1	24	25.54	24.78	25.49	0	25.70	25.54	24.78	25.49	0	25.70
		12	0	24.37	24.67	24.61	1	24.70	24.37	24.67	24.61	1	24.70
		12	7	24.36	24.67	24.62	1	24.70	24.36	24.67	24.62	1	24.70
		12	13	24.42	24.61	24.69	1	24.70	24.42	24.61	24.69	1	24.70
		25	0	24.37	24.38	24.69	1	24.70	24.37	24.38	24.69	1	24.70
	16QAM	1	0	24.57	24.41	24.68	1	24.70	24.57	24.41	24.68	1	24.70
		1	12	24.48	24.44	24.38	1	24.70	24.48	24.44	24.38	1	24.70
		1	24	24.47	23.80	24.49	1	24.70	24.47	23.80	24.49	1	24.70
		12	0	23.66	23.64	23.18	2	23.70	23.66	23.64	23.18	2	23.70
		12	7	23.68	23.65	23.61	2	23.70	23.68	23.65	23.61	2	23.70
		12	13	23.39	23.66	23.68	2	23.70	23.39	23.66	23.68	2	23.70
		25	0	23.69	23.61	23.65	2	23.70	23.69	23.61	23.65	2	23.70
	64QAM	1	0	23.69	23.65	23.56	2	23.70	23.69	23.65	23.56	2	23.70
		1	12	23.66	23.69	23.62	2	23.70	23.66	23.69	23.62	2	23.70
		1	24	23.67	22.77	23.68	2	23.70	23.67	22.77	23.68	2	23.70
		12	0	22.69	22.53	22.55	3	22.70	22.69	22.53	22.55	3	22.70
		12	7	22.69	22.54	22.63	3	22.70	22.69	22.54	22.63	3	22.70
		12	13	22.40	22.58	22.68	3	22.70	22.40	22.58	22.68	3	22.70
		25	0	22.66	22.58	22.56	3	22.70	22.66	22.58	22.56	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	25.54	25.39	24.81	0	25.70	25.54	25.39	24.81	0	25.70
		1	8	25.55	25.41	25.47	0	25.70	25.55	25.41	25.47	0	25.70
		1	14	25.45	25.40	25.44	0	25.70	25.45	25.40	25.44	0	25.70
		8	0	24.39	24.61	24.61	1	24.70	24.39	24.61	24.61	1	24.70
		8	4	24.31	24.59	24.66	1	24.70	24.31	24.59	24.66	1	24.70
		8	7	24.67	24.61	24.62	1	24.70	24.67	24.61	24.62	1	24.70
		15	0	24.67	24.61	24.60	1	24.70	24.67	24.61	24.60	1	24.70
	16QAM	1	0	24.41	24.63	24.55	1	24.70	24.41	24.63	24.55	1	24.70
		1	8	24.47	24.69	24.62	1	24.70	24.47	24.69	24.62	1	24.70
		1	14	24.37	24.63	24.64	1	24.70	24.37	24.63	24.64	1	24.70
		8	0	23.40	23.60	23.54	2	23.70	23.40	23.60	23.54	2	23.70
		8	4	23.30	23.59	23.54	2	23.70	23.30	23.59	23.54	2	23.70
		8	7	23.67	23.60	23.61	2	23.70	23.67	23.60	23.61	2	23.70
		15	0	23.63	23.57	23.62	2	23.70	23.63	23.57	23.62	2	23.70
	64QAM	1	0	23.68	23.50	23.42	2	23.70	23.68	23.50	23.42	2	23.70
		1	8	23.58	23.54	23.62	2	23.70	23.58	23.54	23.62	2	23.70
		1	14	23.55	23.47	23.49	2	23.70	23.55	23.47	23.49	2	23.70
		8	0	22.64	22.55	22.43	3	22.70	22.64	22.55	22.43	3	22.70
		8	4	22.58	22.58	22.49	3	22.70	22.58	22.58	22.49	3	22.70
		8	7	22.56	22.56	22.50	3	22.70	22.56	22.56	22.50	3	22.70
		15	0	22.58	22.56	22.55	3	22.70	22.58	22.56	22.55	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	25.56	25.43	24.79	0	25.70	25.56	25.43	24.79	0	25.70
		1	3	25.56	25.42	25.69	0	25.70	25.56	25.42	25.69	0	25.70
		1	5	25.49	25.43	25.70	0	25.70	25.49	25.43	25.70	0	25.70
		3	0	25.46	25.62	25.70	0	25.70	25.46	25.62	25.70	0	25.70
		3	1	25.44	25.61	25.36	0	25.70	25.44	25.61	25.36	0	25.70
		3	3	25.47	25.62	25.37	0	25.70	25.47	25.62	25.37	0	25.70
	16QAM	6	0	24.39	24.49	24.67	1	24.70	24.39	24.49	24.67	1	24.70
		1	0	24.64	24.63	24.38	1	24.70	24.64	24.63	24.38	1	24.70
		1	3	24.42	24.62	24.70	1	24.70	24.42	24.62	24.70	1	24.70
		1	5	24.38	24.67	24.37	1	24.70	24.38	24.67	24.37	1	24.70
		3	0	24.50	24.40	24.53	1	24.70	24.50	24.40	24.53	1	24.70
		3	1	24.50	24.39	24.50	1	24.70	24.50	24.39	24.50	1	24.70
	64QAM	3	3	24.44	24.39	24.50	1	24.70	24.44	24.39	24.50	1	24.70
		6	0	23.38	23.59	23.69	2	23.70	23.38	23.59	23.69	2	23.70
		1	0	23.57	23.54	23.54	2	23.70	23.57	23.54	23.54	2	23.70
		1	3	23.68	23.55	23.47	2	23.70	23.68	23.55	23.47	2	23.70
		1	5	23.59	23.54	23.51	2	23.70	23.59	23.54	23.51	2	23.70
		3	0	23.49	23.39	23.47	2	23.70	23.49	23.39	23.47	2	23.70
	64QAM	3	1	23.48	23.39	23.42	2	23.70	23.48	23.39	23.42	2	23.70
		3	3	23.47	23.37	23.38	2	23.70	23.47	23.37	23.38	2	23.70
		6	0	22.36	22.62	22.67	3	22.70	22.36	22.62	22.67	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	24.21	24.25	24.18	0	24.50	24.21	24.25	24.18	0	24.50
		1	25	24.30	24.30	24.20	0	24.50	24.30	24.30	24.20	0	24.50
		1	49	24.08	24.04	24.05	0	24.50	24.08	24.04	24.05	0	24.50
		25	0	23.03	23.08	23.19	1	23.50	23.03	23.08	23.19	1	23.50
		25	12	23.10	23.10	23.10	1	23.50	23.10	23.10	23.10	1	23.50
		25	25	22.98	23.10	23.00	1	23.50	22.98	23.10	23.00	1	23.50
		50	0	23.06	23.10	23.08	1	23.50	23.06	23.10	23.08	1	23.50
	16QAM	1	0	23.44	23.41	23.41	1	23.50	23.44	23.41	23.41	1	23.50
		1	25	23.46	23.44	23.49	1	23.50	23.46	23.44	23.49	1	23.50
		1	49	23.43	23.23	23.40	1	23.50	23.43	23.23	23.40	1	23.50
		25	0	22.03	22.12	22.23	2	22.50	22.03	22.12	22.23	2	22.50
		25	12	22.05	22.13	22.12	2	22.50	22.05	22.13	22.12	2	22.50
		25	25	22.00	22.12	22.02	2	22.50	22.00	22.12	22.02	2	22.50
		50	0	22.06	22.12	22.11	2	22.50	22.06	22.12	22.11	2	22.50
	64QAM	1	0	22.41	22.42	22.46	2	22.50	22.41	22.42	22.46	2	22.50
		1	25	22.41	22.41	22.33	2	22.50	22.41	22.41	22.33	2	22.50
		1	49	22.45	22.42	22.41	2	22.50	22.45	22.42	22.41	2	22.50
		25	0	21.30	21.35	21.20	3	21.50	21.30	21.35	21.20	3	21.50
		25	12	21.36	21.30	21.17	3	21.50	21.36	21.30	21.17	3	21.50
		25	25	21.34	21.29	21.21	3	21.50	21.34	21.29	21.21	3	21.50
		50	0	21.39	21.27	21.17	3	21.50	21.39	21.27	21.17	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	24.17	24.11	24.11	0	24.50	24.17	24.11	24.11	0	24.50
		1	12	24.05	24.09	24.03	0	24.50	24.05	24.09	24.03	0	24.50
		1	24	24.07	24.07	24.14	0	24.50	24.07	24.07	24.14	0	24.50
		12	0	22.95	23.01	22.97	1	23.50	22.95	23.01	22.97	1	23.50
		12	7	22.93	22.99	22.92	1	23.50	22.93	22.99	22.92	1	23.50
		12	13	22.99	22.97	22.96	1	23.50	22.99	22.97	22.96	1	23.50
		25	0	22.96	22.99	22.94	1	23.50	22.96	22.99	22.94	1	23.50
	16QAM	1	0	23.48	23.42	23.39	1	23.50	23.48	23.42	23.39	1	23.50
		1	12	23.48	23.47	23.33	1	23.50	23.48	23.47	23.33	1	23.50
		1	24	23.41	23.41	23.39	1	23.50	23.41	23.41	23.39	1	23.50
		12	0	22.02	21.99	21.93	2	22.50	22.02	21.99	21.93	2	22.50
		12	7	21.99	22.03	21.86	2	22.50	21.99	22.03	21.86	2	22.50
		12	13	22.05	21.99	21.89	2	22.50	22.05	21.99	21.89	2	22.50
		25	0	21.92	22.03	21.86	2	22.50	21.92	22.03	21.86	2	22.50
	64QAM	1	0	22.42	22.44	22.41	2	22.50	22.42	22.44	22.41	2	22.50
		1	12	22.47	22.48	22.48	2	22.50	22.47	22.48	22.48	2	22.50
		1	24	22.49	22.40	22.48	2	22.50	22.49	22.40	22.48	2	22.50
		12	0	21.13	21.07	21.09	3	21.50	21.13	21.07	21.09	3	21.50
		12	7	21.13	21.08	21.09	3	21.50	21.13	21.08	21.09	3	21.50
		12	13	21.20	21.09	21.15	3	21.50	21.20	21.09	21.15	3	21.50
		25	0	21.12	21.11	21.09	3	21.50	21.12	21.11	21.09	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	24.14	24.08	24.04	0	24.50	24.14	24.08	24.04	0	24.50
		1	8	24.05	24.11	24.11	0	24.50	24.05	24.11	24.11	0	24.50
		1	14	23.98	24.03	24.06	0	24.50	23.98	24.03	24.06	0	24.50
		8	0	22.98	22.97	22.80	1	23.50	22.98	22.97	22.80	1	23.50
		8	4	22.87	22.93	22.92	1	23.50	22.87	22.93	22.92	1	23.50
		8	7	22.86	22.93	22.91	1	23.50	22.86	22.93	22.91	1	23.50
		15	0	22.90	22.95	22.99	1	23.50	22.90	22.95	22.99	1	23.50
	16QAM	1	0	23.37	23.33	23.33	1	23.50	23.37	23.33	23.33	1	23.50
		1	8	23.36	23.37	23.29	1	23.50	23.36	23.37	23.29	1	23.50
		1	14	23.27	23.37	23.42	1	23.50	23.27	23.37	23.42	1	23.50
		8	0	21.94	21.97	21.83	2	22.50	21.94	21.97	21.83	2	22.50
		8	4	21.92	21.92	21.86	2	22.50	21.92	21.92	21.86	2	22.50
		8	7	21.89	21.93	21.86	2	22.50	21.89	21.93	21.86	2	22.50
		15	0	21.91	21.89	21.87	2	22.50	21.91	21.89	21.87	2	22.50
	64QAM	1	0	22.44	22.37	22.33	2	22.50	22.44	22.37	22.33	2	22.50
		1	8	22.38	22.40	22.45	2	22.50	22.38	22.40	22.45	2	22.50
		1	14	22.42	22.38	22.47	2	22.50	22.42	22.38	22.47	2	22.50
		8	0	21.10	21.02	21.05	3	21.50	21.10	21.02	21.05	3	21.50
		8	4	21.01	21.00	21.09	3	21.50	21.01	21.00	21.09	3	21.50
		8	7	21.00	20.98	21.08	3	21.50	21.00	20.98	21.08	3	21.50
		15	0	21.02	20.99	21.06	3	21.50	21.02	20.99	21.06	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	24.25	24.12	24.18	0	24.50	24.25	24.12	24.18	0	24.50
		1	3	24.20	24.09	24.17	0	24.50	24.20	24.09	24.17	0	24.50
		1	5	24.15	24.12	24.21	0	24.50	24.15	24.12	24.21	0	24.50
		3	0	24.00	24.02	24.00	0	24.50	24.00	24.02	24.00	0	24.50
		3	1	24.05	24.02	23.96	0	24.50	24.05	24.02	23.96	0	24.50
		3	3	24.04	23.99	24.01	0	24.50	24.04	23.99	24.01	0	24.50
	16QAM	6	0	22.93	22.93	22.99	1	23.50	22.93	22.93	22.99	1	23.50
		1	0	23.43	23.34	23.47	1	23.50	23.43	23.34	23.47	1	23.50
		1	3	23.34	23.31	23.47	1	23.50	23.34	23.31	23.47	1	23.50
		1	5	23.30	23.30	23.41	1	23.50	23.30	23.30	23.41	1	23.50
		3	0	23.15	23.08	23.14	1	23.50	23.15	23.08	23.14	1	23.50
		3	1	23.10	23.08	23.13	1	23.50	23.10	23.08	23.13	1	23.50
	64QAM	3	3	23.10	23.13	23.12	1	23.50	23.10	23.13	23.12	1	23.50
		6	0	22.02	21.95	21.93	2	22.50	22.02	21.95	21.93	2	22.50
		1	0	22.49	22.46	22.46	2	22.50	22.49	22.46	22.46	2	22.50
		1	3	22.41	22.47	22.43	2	22.50	22.41	22.47	22.43	2	22.50
		1	5	22.39	22.45	22.44	2	22.50	22.39	22.45	22.44	2	22.50
		3	0	22.30	22.17	22.17	2	22.50	22.30	22.17	22.17	2	22.50
	64QAM	3	1	22.21	22.16	22.18	2	22.50	22.21	22.16	22.18	2	22.50
		3	3	22.24	22.18	22.16	2	22.50	22.24	22.18	22.16	2	22.50
		6	0	21.13	21.01	21.20	3	21.50	21.13	21.01	21.20	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	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
10 MHz	QPSK	1	0	25.07	0	25.70		21.84	0	22.00	
		1	25	25.40	0	25.70		22.00	0	22.00	
		1	49	25.34	0	25.70		21.90	0	22.00	
		25	0	24.22	1	24.70		21.99	0	22.00	
		25	12	24.40	1	24.70		21.99	0	22.00	
		25	25	24.34	1	24.70		21.87	0	22.00	
		50	0	24.30	1	24.70		21.93	0	22.00	
	16QAM	1	0	24.33	1	24.70		21.97	0	22.00	
		1	25	24.47	1	24.70		21.91	0	22.00	
		1	49	24.59	1	24.70		22.00	0	22.00	
		25	0	23.21	2	23.70		21.87	0	22.00	
		25	12	23.20	2	23.70		21.89	0	22.00	
		25	25	23.32	2	23.70		21.98	0	22.00	
		50	0	23.17	2	23.70		21.85	0	22.00	
	64QAM	1	0	23.25	2	23.70		21.97	0	22.00	
		1	25	23.36	2	23.70		21.93	0	22.00	
		1	49	23.50	2	23.70		21.89	0	22.00	
		25	0	22.26	3	22.70		21.72	0	22.00	
		25	12	22.28	3	22.70		21.73	0	22.00	
		25	25	22.38	3	22.70		21.84	0	22.00	
		50	0	22.24	3	22.70		21.66	0	22.00	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
5 MHz	QPSK	1	0	25.11	0	25.70		21.91	0.00	22.00	
		1	12	25.04	0	25.70		21.81	0.00	22.00	
		1	24	25.25	0	25.70		21.97	0.00	22.00	
		12	0	24.08	1	24.70		21.79	0.00	22.00	
		12	7	24.08	1	24.70		21.80	0.00	22.00	
		12	13	24.17	1	24.70		21.88	0.00	22.00	
		25	0	23.99	1	24.70		21.78	0.00	22.00	
	16QAM	1	0	24.47	1	24.70		21.94	0.00	22.00	
		1	12	24.48	1	24.70		21.98	0.00	22.00	
		1	24	24.65	1	24.70		21.98	0.00	22.00	
		12	0	23.05	2	23.70		21.78	0.00	22.00	
		12	7	23.05	2	23.70		21.80	0.00	22.00	
		12	13	23.16	2	23.70		21.86	0.00	22.00	
		25	0	23.04	2	23.70		21.75	0.00	22.00	
	64QAM	1	0	23.22	2	23.70		21.88	0.00	22.00	
		1	12	23.28	2	23.70		21.97	0.00	22.00	
		1	24	23.42	2	23.70		21.89	0.00	22.00	
		12	0	22.07	3	22.70		21.53	0.00	22.00	
		12	7	22.05	3	22.70		21.56	0.00	22.00	
		12	13	22.13	3	22.70		21.63	0.00	22.00	
		25	0	21.96	3	22.70		21.39	0.00	22.00	

LTE Band 30 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
10 MHz	QPSK	1	0	20.60	0	21.00		20.00	0	20.50	
		1	25	20.60	0	21.00		20.00	0	20.50	
		1	49	20.60	0	21.00		20.00	0	20.50	
		25	0	20.60	0	21.00		20.20	0	20.50	
		25	12	20.60	0	21.00		20.20	0	20.50	
		25	25	20.60	0	21.00		20.20	0	20.50	
		50	0	20.60	0	21.00		20.20	0	20.50	
	16QAM	1	0	20.94	0	21.00		20.37	0	20.50	
		1	25	20.97	0	21.00		20.38	0	20.50	
		1	49	20.92	0	21.00		20.44	0	20.50	
		25	0	20.30	0	21.00		20.33	0	20.50	
		25	12	20.17	0	21.00		20.16	0	20.50	
	64QAM	25	25	20.33	0	21.00		20.29	0	20.50	
		50	0	20.14	0	21.00		20.13	0	20.50	
		1	0	20.34	0	21.00		20.17	0	20.50	
		1	25	20.23	0	21.00		20.19	0	20.50	
		1	49	20.36	0	21.00		20.30	0	20.50	
		25	0	19.49	0.75	20.25		19.35	0.25	20.25	
		25	12	19.46	0.75	20.25		19.32	0.25	20.25	
		25	25	19.29	0.75	20.25		19.29	0.25	20.25	
		50	0	19.51	0.75	20.25		19.34	0.25	20.25	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
5 MHz	QPSK	1	0	20.21	0	21.00		20.37	0	20.50	
		1	12	20.99	0	21.00		20.16	0	20.50	
		1	24	20.16	0	21.00		20.21	0	20.50	
		12	0	20.13	0	21.00		20.13	0	20.50	
		12	7	20.95	0	21.00		20.43	0	20.50	
		12	13	20.04	0	21.00		20.00	0	20.50	
		25	0	20.92	0	21.00		20.42	0	20.50	
	16QAM	1	0	20.45	0	21.00		20.01	0	20.50	
		1	12	20.24	0	21.00		20.40	0	20.50	
		1	24	20.50	0	21.00		20.44	0	20.50	
		12	0	20.22	0	21.00		20.14	0	20.50	
		12	7	20.03	0	21.00		20.44	0	20.50	
		12	13	20.10	0	21.00		20.49	0	20.50	
	64QAM	25	0	20.93	0	21.00		20.37	0	20.50	
		1	0	20.43	0	21.00		20.33	0	20.50	
		1	12	20.18	0	21.00		20.19	0	20.50	
		1	24	20.41	0	21.00		20.33	0	20.50	
		12	0	20.17	0.75	20.25		20.06	0.25	20.25	
		12	7	19.99	0.75	20.25		20.14	0.25	20.25	
		12	13	20.04	0.75	20.25		20.24	0.25	20.25	
		25	0	19.88	0.75	20.25		20.17	0.25	20.25	

LTE Band 30 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
10 MHz	QPSK	1	0	24.36	0	24.50		20.29	0	20.75	
		1	25	24.48	0	24.50		20.70	0	20.75	
		1	49	24.25	0	24.50		20.17	0	20.75	
		25	0	23.30	1	23.50		20.21	0	20.75	
		25	12	23.40	1	23.50		20.60	0	20.75	
		25	25	23.21	1	23.50		20.25	0	20.75	
		50	0	23.48	1	23.50		20.75	0	20.75	
	16QAM	1	0	23.49	1	23.50		20.59	0	20.75	
		1	25	23.43	1	23.50		20.63	0	20.75	
		1	49	23.41	1	23.50		20.39	0	20.75	
		25	0	22.37	2	22.50		20.17	0	20.75	
		25	12	22.47	2	22.50		20.21	0	20.75	
		25	25	22.29	2	22.50		20.19	0	20.75	
		50	0	22.37	2	22.50		20.24	0	20.75	
	64QAM	1	0	22.41	2	22.50		20.68	0	20.75	
		1	25	22.42	2	22.50		20.56	0	20.75	
		1	49	22.48	2	22.50		20.58	0	20.75	
		25	0	21.31	3	21.50		20.13	0	20.75	
		25	12	21.37	3	21.50		19.96	0	20.75	
		25	25	21.41	3	21.50		19.97	0	20.75	
		50	0	21.35	3	21.50		20.00	0	20.75	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
5 MHz	QPSK	1	0	24.27	0	24.50		20.40	0	20.75	
		1	12	24.45	0	24.50		20.42	0	20.75	
		1	24	24.17	0	24.50		20.23	0	20.75	
		12	0	23.18	1	23.50		20.35	0	20.75	
		12	7	23.22	1	23.50		20.39	0	20.75	
		12	13	23.22	1	23.50		20.19	0	20.75	
		25	0	23.32	1	23.50		20.43	0	20.75	
	16QAM	1	0	23.39	1	23.50		20.74	0	20.75	
		1	12	23.34	1	23.50		20.39	0	20.75	
		1	24	23.49	1	23.50		20.51	0	20.75	
		12	0	22.20	2	22.50		20.32	0	20.75	
		12	7	22.26	2	22.50		20.38	0	20.75	
		12	13	22.27	2	22.50		20.20	0	20.75	
		25	0	22.31	2	22.50		20.47	0	20.75	
	64QAM	1	0	22.39	2	22.50		20.72	0	20.75	
		1	12	22.45	2	22.50		20.57	0	20.75	
		1	24	22.48	2	22.50		20.54	0	20.75	
		12	0	21.32	3	21.50		20.25	0	20.75	
		12	7	21.44	3	21.50		20.16	0	20.75	
		12	13	21.42	3	21.50		20.12	0	20.75	
		25	0	21.47	3	21.50		20.19	0	20.75	

LTE Band 30 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
10 MHz	QPSK	1	0	17.40	0	17.50		18.80	0	19.00	
		1	25	17.40	0	17.50		18.90	0	19.00	
		1	49	17.28	0	17.50		18.90	0	19.00	
		25	0	17.39	0	17.50		19.00	0	19.00	
		25	12	17.50	0	17.50		19.00	0	19.00	
		25	25	17.21	0	17.50		18.90	0	19.00	
		50	0	17.50	0	17.50		19.00	0	19.00	
	16QAM	1	0	17.08	0	17.50		18.83	0	19.00	
		1	25	17.46	0	17.50		18.75	0	19.00	
		1	49	17.49	0	17.50		18.73	0	19.00	
		25	0	17.40	0	17.50		18.87	0	19.00	
		25	12	17.28	0	17.50		18.76	0	19.00	
		25	25	17.27	0	17.50		18.75	0	19.00	
		50	0	17.37	0	17.50		18.84	0	19.00	
	64QAM	1	0	17.08	0	17.50		18.90	0	19.00	
		1	25	17.01	0	17.50		18.81	0	19.00	
		1	49	17.49	0	17.50		18.81	0	19.00	
		25	0	17.45	0	17.50		18.86	0	19.00	
		25	12	17.34	0	17.50		18.42	0	19.00	
		25	25	17.34	0	17.50		18.43	0	19.00	
		50	0	17.44	0	17.50		18.56	0	19.00	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710	MPR	Tune-up Limit		27710	MPR	Tune-up Limit	
				2310 MHz				2310 MHz			
5 MHz	QPSK	1	0	17.42	0	17.50		19.00	0	19.00	
		1	12	17.25	0	17.50		18.98	0	19.00	
		1	24	17.23	0	17.50		18.92	0	19.00	
		12	0	17.26	0	17.50		18.96	0	19.00	
		12	7	17.15	0	17.50		18.87	0	19.00	
		12	13	17.15	0	17.50		18.96	0	19.00	
		25	0	17.26	0	17.50		18.89	0	19.00	
	16QAM	1	0	17.27	0	17.50		18.97	0	19.00	
		1	12	17.13	0	17.50		18.87	0	19.00	
		1	24	17.06	0	17.50		18.80	0	19.00	
		12	0	17.20	0	17.50		19.00	0	19.00	
		12	7	17.11	0	17.50		19.00	0	19.00	
		12	13	17.11	0	17.50		19.00	0	19.00	
		25	0	17.21	0	17.50		18.90	0	19.00	
	64QAM	1	0	17.12	0	17.50		18.98	0	19.00	
		1	12	17.02	0	17.50		18.96	0	19.00	
		1	24	17.45	0	17.50		18.90	0	19.00	
		12	0	17.26	0	17.50		18.23	0	19.00	
		12	7	17.15	0	17.50		18.99	0	19.00	
		12	13	17.12	0	17.50		18.80	0	19.00	
		25	0	17.14	0	17.50		18.94	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
				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	25.56	25.44	25.37	25.34	25.14	0	25.70	23.63	23.70	23.70	23.70	23.50
		1	49	25.70	25.70	25.70	25.70	25.70	0	25.70	23.80	23.75	23.70	23.70	23.50
		1	99	25.35	25.31	25.25	25.16	25.09	0	25.70	23.70	23.68	23.70	23.70	23.50
		50	0	24.51	24.42	24.39	24.32	24.15	1	24.70	23.79	23.70	23.70	23.70	23.40
		50	24	24.70	24.70	24.70	24.70	24.70	1	24.70	23.85	23.75	23.70	23.70	23.50
		50	50	24.33	24.36	24.30	24.22	24.07	1	24.70	23.80	23.66	23.70	23.59	23.40
		100	0	24.70	24.70	24.70	24.70	24.70	1	24.70	23.70	23.75	23.70	23.70	23.50
	16QAM	1	0	24.65	24.60	24.42	24.42	24.33	1	24.70	23.96	24.00	23.86	23.83	23.98
		1	49	24.50	24.55	24.35	24.39	24.21	1	24.70	23.99	23.90	23.86	23.76	23.93
		1	99	24.45	24.44	24.35	24.27	24.16	1	24.70	23.82	23.90	23.96	23.72	23.92
		50	0	23.47	23.43	23.42	23.36	23.14	2	23.70	23.06	23.43	23.32	23.19	23.29
		50	24	23.42	23.43	23.40	23.33	23.12	2	23.70	23.09	23.30	23.30	23.18	23.28
		50	50	23.36	23.34	23.35	23.25	23.06	2	23.70	23.11	23.30	23.30	23.10	23.27
		100	0	23.39	23.38	23.37	23.31	23.13	2	23.70	23.00	23.32	23.27	23.14	23.24
	64QAM	1	0	23.21	23.06	23.01	23.38	23.17	2	23.70	22.80	23.44	23.19	23.20	23.36
		1	49	23.29	23.65	23.09	23.32	23.04	2	23.70	23.25	23.40	23.35	23.23	23.28
		1	99	23.47	23.68	23.22	23.27	23.05	2	23.70	23.40	23.47	23.44	23.20	23.30
		50	0	22.32	22.01	22.24	22.26	22.09	3	22.70	22.18	22.50	22.22	22.23	22.29
		50	24	22.23	21.98	22.22	22.24	22.08	3	22.70	22.21	22.45	22.12	22.22	22.27
		50	50	21.80	21.92	22.24	22.10	22.08	3	22.70	22.26	22.26	22.15	22.16	22.28
		100	0	21.77	21.92	22.21	22.16	22.04	3	22.70	22.20	22.17	22.11	22.19	22.25
15 MHz	QPSK	1	0	25.44	25.42	25.43	25.24	25.09	0	25.70	23.74	23.59	23.76	23.78	23.98
		1	37	25.39	25.44	25.36	25.27	25.14	0	25.70	23.76	23.63	23.76	23.72	23.97
		1	74	25.27	25.30	25.25	25.07	25.05	0	25.70	23.85	23.59	23.85	23.63	24.00
		36	0	24.46	24.43	24.38	24.29	24.16	1	24.70	23.79	23.61	23.75	23.77	23.98
		36	20	24.40	24.43	24.37	24.28	24.20	1	24.70	23.84	23.56	23.76	23.78	23.91
		36	39	24.35	24.39	24.31	24.19	24.13	1	24.70	23.85	23.59	23.74	23.70	23.91
		75	0	24.35	24.36	24.31	24.24	24.13	1	24.70	23.66	23.55	23.66	23.76	23.91
	16QAM	1	0	24.53	24.30	24.39	24.27	24.03	1	24.70	23.64	23.61	23.73	23.94	23.90
		1	37	24.35	24.36	24.41	24.26	24.02	1	24.70	23.65	23.57	23.76	23.91	23.96
		1	74	24.33	24.19	24.28	24.11	23.85	1	24.70	23.32	23.47	23.85	23.81	23.97
		36	0	23.48	23.47	23.44	23.35	23.09	2	23.70	22.73	23.00	23.32	23.40	23.54
		36	20	23.44	23.43	23.38	23.35	23.17	2	23.70	22.77	22.97	23.33	23.38	23.55
		36	39	23.37	23.39	23.33	23.24	23.11	2	23.70	22.78	22.98	23.31	23.30	23.54
		75	0	23.36	23.37	23.33	23.26	23.12	2	23.70	22.76	22.94	23.25	23.34	23.52
	64QAM	1	0	23.22	23.53	23.70	23.66	23.30	2	23.70	22.77	22.95	23.31	23.25	23.53
		1	37	23.31	23.54	23.65	23.60	23.11	2	23.70	23.08	23.01	23.27	23.24	23.55
		1	74	23.44	23.54	23.67	23.49	23.06	2	23.70	23.18	22.99	23.27	23.19	23.47
		36	0	22.37	22.69	22.69	22.65	22.33	3	22.70	22.09	22.04	22.23	22.41	22.52
		36	20	22.44	22.69	22.68	22.66	22.30	3	22.70	22.12	22.02	22.24	22.40	22.52
		36	39	22.48	22.70	22.66	22.57	22.33	3	22.70	22.12	22.02	22.23	22.32	22.37
		75	0	22.47	22.64	22.61	22.25	22.25	3	22.70	22.09	21.96	22.22	22.34	22.35
10 MHz	QPSK	1	0	25.54	25.44	25.44	25.30	25.11	0	25.70	23.56	23.59	23.78	23.77	23.74
		1	25	25.41	25.42	25.37	25.30	25.21	0	25.70	23.59	23.53	23.70	23.71	23.72
		1	49	25.35	25.32	25.33	25.18	25.03	0	25.70	23.61	23.57	23.74	23.67	23.77
		25	0	24.52	24.43	24.40	24.32	24.16	1	24.70	23.56	23.52	23.71	23.76	23.73
		25	12	24.42	24.41	24.37	24.29	24.13	1	24.70	23.58	23.54	23.70	23.76	23.71
		25	25	24.38	24.38	24.34	24.21	24.13	1	24.70	23.61	23.57	23.72	23.71	23.73
		50	0	24.41	24.39	24.36	24.26	24.13	1	24.70	23.52	23.56	23.72	23.78	23.75
	16QAM	1	0	24.53	24.34	24.38	24.38	24.02	1	24.70	23.52	23.68	23.83	23.87	23.88
		1	25	24.44	24.31	24.36	24.33	24.02	1	24.70	23.51	23.66	23.78	23.76	23.82
		1	49	24.37	24.15	24.27	24.23	23.94	1	24.70	23.26	23.54	23.84	23.71	23.89
		25	0	23.46	23.48	23.46	23.31	23.23	2	23.70	22.78	22.96	23.22	23.26	23.27
		25	12	23.41	23.47	23.43	23.30	23.19	2	23.70	22.71	22.96	23.20	23.22	23.26
		25	25	23.39	23.45	23.39	23.25	23.14	2	23.70	22.73	23.00	23.21	23.18	23.25
		50	0	23.41	23.45	23.40	23.30	23.18	2	23.70	22.76	22.97	23.20	23.23	23.26
	64QAM	1	0	22.93	23.31	23.48	23.41	23.16	2	23.70	22.72	22.94	23.30	23.24	23.32
		1	25	23.03	23.24	23.35	23.36	23.07	2	23.70	22.94	22.88	23.23	23.19	23.27
		1	49	23.14	23.25	23.45	23.35	23.14	2	23.70	23.13	22.93	23.31	23.14	23.22
		25	0	22.08	22.32	22.42	22.46	22.32	3	22.70	22.01	21.95	22.27	22.25	22.25
		25	12	22.10	22.33	22.39	22.43	22.30	3	22.70	22.03	21.95	22.24	22.25	22.24
		25	25	22.12	22.35	22.40	22.39	22.29	3	22.70	22.07	21.98	22.25	22.19	22.24
		50	0	22.12	22.34	22.42	22.42	22.31	3	22.70	22.08	21.96	22.25	22.25	22.25

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
				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	25.39	25.31	25.32	25.18	25.11	0	25.70	23.62	23.67	23.84	23.70	23.77
		1	12	25.32	25.32	25.27	25.21	25.10	0	25.70	23.62	23.70	23.76	23.64	23.69
		1	24	25.37	25.28	25.27	25.15	25.11	0	25.70	23.69	23.76	23.78	23.60	23.73
		12	0	24.32	24.26	24.20	24.17	24.06	1	24.70	23.65	23.56	23.71	23.64	23.66
		12	7	24.30	24.29	24.18	24.15	24.05	1	24.70	23.69	23.55	23.70	23.63	23.61
		12	13	24.30	24.29	24.17	24.15	24.03	1	24.70	23.73	23.56	23.71	23.64	23.61
		25	0	24.29	24.29	24.18	24.17	24.04	1	24.70	23.66	23.56	23.72	23.63	23.63
	16QAM	1	0	24.36	24.28	24.41	24.21	24.10	1	24.70	23.74	23.65	23.85	23.66	23.77
		1	12	24.25	24.27	24.37	24.18	24.00	1	24.70	23.84	23.63	23.82	23.62	23.69
		1	24	24.30	24.26	24.34	24.14	24.04	1	24.70	23.51	23.64	23.85	23.60	23.72
		12	0	23.22	23.28	23.23	23.15	23.02	2	23.70	22.79	22.86	23.19	22.98	23.12
		12	7	23.30	23.25	23.22	23.10	23.04	2	23.70	22.85	22.80	23.20	23.01	23.09
		12	13	23.26	23.23	23.19	23.10	23.04	2	23.70	22.86	22.86	23.22	23.00	23.08
		25	0	23.24	23.24	23.19	23.13	23.03	2	23.70	22.78	22.84	23.19	23.00	23.09
	64QAM	1	0	22.72	23.16	23.39	23.44	23.10	2	23.70	22.91	22.99	23.16	23.14	23.21
		1	12	22.73	23.22	23.34	23.38	23.03	2	23.70	23.18	23.02	23.09	23.16	23.24
		1	24	22.79	23.32	23.43	23.30	23.05	2	23.70	23.30	22.99	23.11	23.07	23.14
		12	0	21.71	22.15	22.27	22.26	21.96	3	22.70	22.21	21.90	22.02	22.05	22.06
		12	7	21.76	22.09	22.29	22.19	22.00	3	22.70	22.18	21.92	22.04	22.01	22.05
		12	13	21.72	22.14	22.32	22.14	21.97	3	22.70	22.18	21.91	22.05	22.01	22.04
		25	0	21.70	22.14	22.30	22.18	22.01	3	22.70	22.11	21.87	22.01	21.99	22.00

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
				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	19.88	19.82	19.86	19.75	19.69	0	20.00	22.60	22.69	22.65	22.70	22.56
		1	49	19.90	19.90	19.90	19.80	19.80	0	20.00	22.60	22.75	22.73	22.70	22.67
		1	99	19.85	19.72	19.90	19.75	19.71	0	20.00	22.60	22.75	22.55	22.64	22.61
		50	0	19.82	19.81	19.76	19.74	19.66	0	20.00	21.99	22.03	21.94	21.98	21.85
		50	24	19.90	19.90	19.90	19.80	19.80	0	20.00	22.10	22.15	22.05	22.00	22.10
		50	50	19.84	19.71	19.82	19.77	19.67	0	20.00	22.02	21.93	22.02	21.98	21.90
		100	0	19.90	19.80	19.90	19.80	19.80	0	20.00	22.00	22.00	22.20	22.00	22.00
		1	0	19.96	19.57	19.85	19.90	19.86	0	20.00	22.13	22.21	22.06	22.03	22.11
		1	49	19.90	19.83	19.82	19.83	19.79	0	20.00	22.09	22.13	22.03	22.04	22.06
		1	99	19.94	19.89	19.89	19.88	19.88	0	20.00	22.12	22.04	22.09	22.03	22.03
	16QAM	50	0	19.89	19.86	19.76	19.81	19.67	0	20.00	20.81	20.88	20.77	20.86	20.73
		50	24	19.88	19.77	19.79	19.78	19.71	0	20.00	20.81	20.80	20.80	20.83	20.73
		50	50	19.88	19.75	19.84	19.83	19.70	0	20.00	20.81	20.79	20.85	20.89	20.70
		100	0	19.87	19.74	19.78	19.76	19.71	0	20.00	20.78	20.77	20.77	20.79	20.66
		1	0	19.90	19.60	19.78	19.88	19.81	0	20.00	20.93	21.03	20.77	20.80	20.81
		1	49	19.85	19.94	19.66	19.83	19.77	0	20.00	20.93	20.90	20.71	20.79	20.78
		1	99	19.90	19.93	19.76	19.90	19.82	0	20.00	20.92	20.89	20.83	20.88	20.79
		50	0	19.64	19.65	19.53	19.58	19.45	0	20.00	19.80	19.76	19.67	19.69	19.62
		50	24	19.63	19.54	19.57	19.56	19.51	0	20.00	19.81	19.65	19.69	19.66	19.66
		50	50	19.65	19.53	19.61	19.61	19.49	0	20.00	19.81	19.64	19.76	19.68	19.63
		100	0	19.60	19.50	19.54	19.53	19.48	0	20.00	19.78	19.61	19.67	19.62	19.62
15 MHz	QPSK	1	0	19.78	19.87	19.75	19.77	19.73	0	20.00	22.60	22.62	22.72	22.42	22.69
		1	37	19.77	19.76	19.79	19.72	19.72	0	20.00	22.62	22.73	22.42	22.73	22.73
		1	74	19.77	19.71	19.87	19.75	19.67	0	20.00	22.62	22.68	22.42	22.42	22.66
		36	0	19.78	19.83	19.75	19.74	19.70	0	20.00	22.07	22.00	21.96	21.96	21.91
		36	20	19.81	19.77	19.82	19.75	19.75	0	20.00	22.07	21.92	22.02	21.98	21.96
		36	39	19.81	19.74	19.88	19.80	19.73	0	20.00	22.06	21.90	22.07	21.99	21.92
		75	0	19.79	19.73	19.79	19.72	19.70	0	20.00	21.98	21.88	21.99	21.91	21.88
		1	0	19.84	19.81	19.72	19.80	19.59	0	20.00	22.00	21.90	21.95	22.01	21.80
		1	37	19.82	19.72	19.77	19.83	19.65	0	20.00	22.07	21.78	21.99	21.96	21.81
		1	74	19.79	19.68	19.88	19.81	19.57	0	20.00	22.06	21.81	22.00	21.96	21.73
	16QAM	36	0	19.83	19.86	19.79	19.84	19.73	0	20.00	21.20	21.07	21.09	21.07	20.99
		36	20	19.86	19.80	19.87	19.84	19.74	0	20.00	21.22	21.02	21.17	21.07	21.05
		36	39	19.86	19.77	19.91	19.90	19.73	0	20.00	21.20	21.00	21.19	21.13	21.01
		75	0	19.84	19.78	19.78	19.81	19.72	0	20.00	21.19	21.02	21.15	21.08	21.00
		1	0	19.81	19.80	19.76	19.86	19.63	0	20.00	21.18	21.19	21.13	21.08	20.87
		1	37	19.83	19.68	19.77	19.79	19.68	0	20.00	21.25	21.05	21.10	21.09	20.87
		1	74	19.84	19.60	19.79	19.81	19.61	0	20.00	21.22	21.03	21.16	21.11	20.81
		36	0	19.58	19.56	19.51	19.55	19.45	0	20.00	20.08	20.10	19.95	19.98	19.87
		36	20	19.61	19.47	19.57	19.56	19.53	0	20.00	20.09	20.03	20.00	19.99	19.93
		36	39	19.60	19.46	19.62	19.60	19.52	0	20.00	20.06	19.99	20.05	20.02	19.90
		75	0	19.57	19.43	19.54	19.53	19.49	0	20.00	20.04	19.98	19.97	19.97	19.87
10 MHz	QPSK	1	0	19.85	19.87	19.76	19.67	19.66	0	20.00	22.63	22.59	22.71	22.72	22.62
		1	25	19.82	19.77	19.78	19.64	19.69	0	20.00	22.56	22.69	22.49	22.68	22.67
		1	49	19.87	19.79	19.85	19.78	19.71	0	20.00	22.59	22.72	22.52	22.62	22.67
		25	0	19.85	19.78	19.80	19.72	19.68	0	20.00	22.00	21.90	21.97	21.90	21.90
		25	12	19.84	19.76	19.79	19.72	19.67	0	20.00	21.99	21.88	21.96	21.92	21.89
		25	25	19.86	19.76	19.85	19.78	19.69	0	20.00	22.01	21.89	22.03	21.95	21.89
		50	0	19.86	19.76	19.76	19.72	19.68	0	20.00	22.00	21.89	21.96	21.93	21.90
		1	0	19.97	19.86	19.74	19.84	19.57	0	20.00	22.13	21.95	21.94	21.99	21.80
		1	25	19.90	19.75	19.77	19.79	19.56	0	20.00	22.09	21.79	21.97	21.96	21.77
		1	49	19.96	19.70	19.82	19.89	19.61	0	20.00	22.11	21.81	22.00	22.03	21.78
	16QAM	25	0	19.93	19.81	19.78	19.80	19.72	0	20.00	21.16	21.06	21.12	21.04	21.03
		25	12	19.91	19.80	19.78	19.78	19.70	0	20.00	21.14	21.03	21.11	21.02	21.01
		25	25	19.89	19.80	19.85	19.86	19.73	0	20.00	21.17	21.03	21.15	21.10	21.01
		50	0	19.84	19.83	19.80	19.76	19.74	0	20.00	21.16	21.05	21.12	21.01	21.03
		1	0	19.96	19.84	19.82	19.80	19.61	0	20.00	21.11	21.08	21.11	21.14	20.89
		1	25	19.94	19.78	19.79	19.82	19.60	0	20.00	21.18	20.97	21.10	21.17	20.90
		1	49	19.94	19.78	19.81	19.83	19.65	0	20.00	21.18	20.93	21.16	21.23	20.94
		25	0	19.64	19.58	19.52	19.53	19.47	0	20.00	20.01	19.93	20.00	20.00	19.91
		25	12	19.63	19.57	19.51	19.56	19.46	0	20.00	20.01	19.91	20.00	19.98	19.88
		25	25	19.64	19.58	19.56	19.63	19.46	0	20.00	20.04	19.91	20.06	20.06	19.88
		50	0	19.62	19.57	19.52	19.55	19.46	0	20.00	20.03	19.91	20.01	19.99	19.90

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	19.86	19.67	19.73	19.71	19.64	0	20.00	22.59	22.67	22.72	22.74	22.69	0	22.75
		1	12	19.83	19.65	19.67	19.68	19.59	0	20.00	22.56	22.63	22.69	22.70	22.66	0	22.75
		1	24	19.88	19.65	19.73	19.76	19.64	0	20.00	22.62	22.66	22.46	22.59	22.67	0	22.75
		12	0	19.73	19.58	19.59	19.59	19.55	0	20.00	22.22	22.09	22.14	22.13	22.08	0.5	22.25
		12	7	19.72	19.57	19.58	19.59	19.53	0	20.00	22.22	22.07	22.13	22.12	22.07	0.5	22.25
		12	13	19.74	19.57	19.58	19.59	19.55	0	20.00	22.16	22.06	22.13	22.12	22.08	0.5	22.25
		25	0	19.74	19.57	19.60	19.59	19.56	0	20.00	22.16	22.08	22.15	22.12	22.10	0.5	22.25
	16QAM	1	0	19.89	19.69	19.88	19.75	19.66	0	20.00	22.00	21.88	22.08	21.94	21.88	0.5	22.25
		1	12	19.85	19.68	19.84	19.72	19.61	0	20.00	21.97	21.85	22.05	21.91	21.79	0.5	22.25
		1	24	19.86	19.72	19.89	19.77	19.68	0	20.00	22.03	21.89	22.14	22.00	21.85	0.5	22.25
		12	0	19.79	19.58	19.56	19.63	19.52	0	20.00	21.04	20.87	20.92	20.89	20.88	1.5	21.25
		12	7	19.74	19.54	19.58	19.60	19.52	0	20.00	21.01	20.83	20.91	20.91	20.86	1.5	21.25
		12	13	19.76	19.55	19.59	19.59	19.54	0	20.00	20.98	20.84	20.91	20.90	20.86	1.5	21.25
		25	0	19.74	19.57	19.58	19.57	19.56	0	20.00	20.97	20.85	20.92	20.91	20.87	1.5	21.25
	64QAM	1	0	19.90	19.73	19.83	19.80	19.72	0	20.00	21.20	21.04	21.07	21.09	21.00	1.5	21.25
		1	12	19.82	19.67	19.74	19.79	19.64	0	20.00	21.20	20.95	21.05	21.07	20.96	1.5	21.25
		1	24	19.91	19.72	19.83	19.82	19.70	0	20.00	21.12	20.98	21.09	21.15	20.99	1.5	21.25
		12	0	19.44	19.30	19.36	19.40	19.29	0	20.00	19.91	19.70	19.85	19.77	19.70	2.5	20.25
		12	7	19.41	19.25	19.34	19.38	19.26	0	20.00	19.91	19.77	19.79	19.80	19.62	2.5	20.25
		12	13	19.43	19.25	19.36	19.38	19.24	0	20.00	19.90	19.71	19.81	19.81	19.66	2.5	20.25
		25	0	19.40	19.29	19.38	19.33	19.27	0	20.00	19.85	19.77	19.85	19.77	19.69	2.5	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
				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	25.14	25.28	25.27	25.01	25.20	0	25.50	24.40	24.26	24.15	24.72	24.89
		1	49	25.20	25.33	25.30	25.10	25.30	0	25.50	24.65	25.00	24.70	25.00	25.00
		1	99	25.04	25.27	25.12	25.09	25.09	0	25.50	24.88	24.58	24.10	24.69	24.73
		50	0	24.01	24.42	24.33	24.12	24.27	1	24.50	24.20	24.20	24.30	24.31	24.42
		50	24	24.20	24.45	24.40	24.20	24.30	1	24.50	24.24	24.20	24.30	24.50	24.50
		50	50	24.20	24.34	24.23	24.11	24.18	1	24.50	24.21	24.18	24.30	24.30	24.35
		100	0	24.13	24.36	24.26	24.08	24.12	1	24.50	24.50	24.50	24.50	24.50	24.50
		1	0	24.30	24.36	24.34	24.15	24.47	1	24.50	24.42	24.33	24.15	24.41	24.33
		1	49	24.10	24.38	24.33	24.23	24.23	1	24.50	24.07	24.27	24.39	24.45	24.44
		1	99	24.10	24.25	24.18	24.15	24.25	1	24.50	24.40	24.36	23.30	24.45	24.42
	16QAM	50	0	23.01	23.22	23.30	23.13	23.26	2	23.50	23.29	23.19	23.28	23.37	23.45
		50	24	23.06	23.22	23.26	23.12	23.09	2	23.50	23.21	23.44	23.27	23.37	23.37
		50	50	23.03	23.15	23.19	23.09	23.12	2	23.50	23.48	23.12	23.16	23.34	23.42
		100	0	23.10	23.18	23.21	23.08	23.04	2	23.50	23.18	23.43	23.40	23.34	23.32
		1	0	23.28	23.07	23.25	23.20	23.06	2	23.50	23.37	23.25	23.30	23.07	23.11
		1	49	23.05	23.39	23.48	23.05	23.15	2	23.50	23.24	23.30	23.32	23.14	23.04
		1	99	23.24	23.39	23.45	23.11	23.34	2	23.50	23.35	23.29	23.31	23.17	23.23
		50	0	22.26	22.45	22.25	22.23	22.30	3	22.50	22.36	22.14	22.26	22.38	22.26
		50	24	22.22	22.49	22.20	22.17	22.28	3	22.50	22.32	22.17	22.24	22.32	22.23
		50	50	22.28	22.46	22.18	22.20	22.38	3	22.50	22.44	22.15	22.19	22.35	22.34
		100	0	22.21	22.44	22.18	22.16	22.23	3	22.50	22.32	22.14	22.18	22.29	22.19
15 MHz	QPSK	1	0	25.18	25.24	25.22	25.19	25.11	0	25.50	24.70	24.90	24.86	24.67	24.85
		1	37	25.03	25.34	25.25	25.17	25.06	0	25.50	24.58	24.92	24.89	24.69	24.77
		1	74	25.05	25.26	25.14	25.10	25.03	0	25.50	24.57	24.90	24.72	24.63	24.66
		36	0	24.08	24.41	24.35	24.07	24.22	1	24.50	24.19	24.38	24.50	24.28	24.40
		36	20	24.20	24.45	24.32	24.10	24.18	1	24.50	24.22	24.43	24.48	24.32	24.32
		36	39	24.19	24.39	24.26	24.11	24.12	1	24.50	24.19	24.37	24.43	24.34	24.31
		75	0	24.08	24.39	24.26	24.04	24.09	1	24.50	24.08	24.38	24.44	24.30	24.30
		1	0	24.07	24.20	24.24	24.06	24.13	1	24.50	24.17	24.48	24.41	24.20	24.37
		1	37	23.93	24.07	24.20	24.12	24.06	1	24.50	24.01	24.41	24.38	24.12	24.31
		1	74	24.01	24.22	24.16	24.08	24.03	1	24.50	23.96	24.48	24.23	24.03	24.23
	16QAM	36	0	23.03	23.17	23.30	23.10	23.23	2	23.50	23.19	23.08	23.28	23.04	23.18
		36	20	23.16	23.27	23.27	23.14	23.13	2	23.50	23.15	23.13	23.28	23.06	23.11
		36	39	23.01	23.21	23.24	23.12	23.12	2	23.50	23.12	23.07	23.21	23.05	23.08
		75	0	23.09	23.22	23.23	23.09	23.06	2	23.50	23.06	23.36	23.12	23.02	23.05
		1	0	23.24	23.25	23.21	23.20	23.13	2	23.50	23.24	23.26	23.45	23.08	23.15
		1	37	23.12	23.30	23.06	23.05	23.06	2	23.50	23.16	23.28	23.43	23.03	23.02
		1	74	23.15	23.30	23.49	23.04	23.24	2	23.50	23.30	23.27	23.33	23.05	23.17
		36	0	22.20	22.32	22.26	22.22	22.28	3	22.50	22.49	22.10	22.34	22.39	22.22
		36	20	22.19	22.36	22.25	22.19	22.29	3	22.50	22.45	22.14	22.36	22.36	22.22
		36	39	22.25	22.33	22.23	22.22	22.35	3	22.50	22.02	22.12	22.34	22.37	22.28
		75	0	22.18	22.50	22.22	22.18	22.19	3	22.50	22.40	22.11	22.32	22.30	22.19
10 MHz	QPSK	1	0	25.15	25.32	25.21	25.16	25.13	0	25.50	24.63	24.96	24.91	24.75	24.88
		1	25	25.17	25.32	25.22	25.22	25.06	0	25.50	24.67	24.97	24.90	24.73	24.78
		1	49	25.11	25.33	25.24	25.19	25.16	0	25.50	24.63	24.90	24.83	24.71	24.78
		25	0	24.08	24.47	24.32	24.14	24.17	1	24.50	24.20	24.45	24.50	24.40	24.38
		25	12	24.24	24.42	24.30	24.14	24.13	1	24.50	24.23	24.42	24.48	24.36	24.35
		25	25	24.19	24.39	24.28	24.18	24.14	1	24.50	24.21	24.38	24.45	24.39	24.37
		50	0	24.12	24.41	24.30	24.11	24.12	1	24.50	24.15	24.39	24.45	24.34	24.34
		1	0	24.07	24.28	24.25	24.14	24.10	1	24.50	24.07	24.40	24.40	24.14	24.14
		1	25	24.09	24.06	24.20	24.17	24.00	1	24.50	24.04	24.47	24.39	24.12	24.41
		1	49	24.16	24.29	24.24	24.28	24.10	1	24.50	24.06	24.38	24.33	24.10	24.45
	16QAM	25	0	23.04	23.24	23.31	23.19	23.21	2	23.50	23.25	23.19	23.32	23.06	23.11
		25	12	23.17	23.23	23.32	23.14	23.17	2	23.50	23.10	23.16	23.30	23.07	23.18
		25	25	23.02	23.21	23.31	23.16	23.20	2	23.50	23.07	23.16	23.31	23.06	23.12
		50	0	23.16	23.21	23.31	23.10	23.15	2	23.50	23.07	23.46	23.21	23.06	23.12
		1	0	23.16	23.31	23.28	23.10	23.14	2	23.50	23.17	23.24	23.47	23.05	23.08
		1	25	23.03	23.32	23.34	23.03	23.14	2	23.50	23.11	23.26	23.46	23.08	23.20
		1	49	23.16	23.39	23.29	23.01	23.26	2	23.50	23.21	23.30	23.48	23.17	23.15
		25	0	22.17	22.33	22.26	22.20	22.25	3	22.50	22.41	22.14	22.26	22.35	22.46
		25	12	22.19	22.30	22.24	22.19	22.30	3	22.50	22.44	22.12	22.24	22.31	22.33
		25	25	22.23	22.21	22.24	22.26	22.35	3	22.50	22.28	22.12	22.25	22.34	22.38
	64QAM	50	0	22.18	22.50	22.25	22.18	22.30	3	22.50	22.47	22.12	22.27	22.33	22.34

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	25.18	25.29	25.14	25.18	25.19	0	25.50	24.51	24.42	24.83	24.71	24.73	0	25.00
		1	12	25.19	25.30	25.14	25.14	25.18	0	25.50	24.53	24.42	24.82	24.68	24.72	0	25.00
		1	24	25.08	25.40	25.26	25.20	25.10	0	25.50	24.58	24.42	24.81	24.71	24.74	0	25.00
		12	0	24.03	24.37	24.19	24.04	24.01	1	24.50	24.09	24.34	24.34	24.24	24.27	0.5	24.50
		12	7	24.09	24.33	24.17	24.01	24.06	1	24.50	24.14	24.32	24.32	24.21	24.25	0.5	24.50
		12	13	24.07	24.32	24.16	24.00	24.11	1	24.50	24.13	24.32	24.31	24.19	24.32	0.5	24.50
		25	0	24.06	24.33	24.17	24.02	24.05	1	24.50	24.10	24.32	24.33	24.22	24.24	0.5	24.50
	16QAM	1	0	24.12	24.33	24.38	24.06	24.05	1	24.50	24.09	24.41	24.48	24.20	24.35	0.5	24.50
		1	12	24.13	24.14	24.31	24.03	24.20	1	24.50	24.13	24.38	24.48	24.17	24.30	0.5	24.50
		1	24	24.16	24.43	24.41	24.20	24.11	1	24.50	24.12	24.36	24.46	24.17	24.40	0.5	24.50
		12	0	23.02	23.10	23.14	23.16	23.04	2	23.50	23.06	23.22	23.06	23.15	23.21	1.5	23.50
		12	7	23.07	23.08	23.11	23.05	22.99	2	23.50	23.05	23.50	23.05	23.20	23.29	1.5	23.50
		12	13	23.05	23.09	23.10	23.05	23.06	2	23.50	23.01	23.49	23.03	23.20	23.20	1.5	23.50
		25	0	23.38	23.16	23.07	23.01	22.98	2	23.50	23.01	23.49	23.03	23.20	23.00	1.5	23.50
	64QAM	1	0	23.14	23.38	23.15	23.17	23.10	2	23.50	23.12	23.28	23.31	23.05	23.16	1.5	23.50
		1	12	23.11	23.35	23.15	23.23	23.13	2	23.50	23.14	23.21	23.34	23.04	23.25	1.5	23.50
		1	24	23.19	23.31	23.24	23.32	23.18	2	23.50	23.25	23.28	23.34	23.20	23.11	1.5	23.50
		12	0	22.40	22.38	22.16	22.11	22.08	3	22.50	22.25	22.28	22.34	22.20	22.11	2.5	22.50
		12	7	22.28	22.29	22.15	22.08	22.04	3	22.50	22.25	22.28	22.34	22.20	22.11	2.5	22.50
		12	13	22.22	22.29	22.05	22.06	22.05	3	22.50	22.39	22.37	22.06	22.09	22.14	2.5	22.50
		25	0	22.32	22.36	22.02	22.10	22.10	3	22.50	22.27	22.41	22.04	22.13	22.17	2.5	22.50

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
				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	19.16	18.61	18.66	18.91	18.85	0	19.25	20.65	20.60	20.70	20.80	20.83
		1	49	19.20	18.73	19.25	19.16	19.10	0	19.25	20.82	20.60	20.75	20.87	21.00
		1	99	18.81	18.59	18.82	18.72	18.66	0	19.25	20.79	20.57	20.70	20.72	20.67
		50	0	19.04	18.52	18.71	18.84	18.78	0	19.25	20.80	20.51	20.74	20.80	20.80
		50	24	19.10	18.63	19.25	19.10	19.10	0	19.25	20.81	20.60	20.78	20.87	21.00
		50	50	18.87	18.57	18.78	18.68	18.79	0	19.25	20.79	20.59	20.70	20.75	20.76
		100	0	18.87	18.53	19.07	18.80	18.74	0	19.25	20.78	20.55	20.78	20.79	21.00
		1	0	19.11	18.79	18.77	19.06	19.02	0	19.25	20.73	20.71	20.75	20.96	20.92
		1	49	19.00	18.68	18.75	18.95	18.84	0	19.25	20.90	20.63	20.81	20.89	20.81
		1	99	18.96	18.80	18.87	18.83	18.81	0	19.25	20.86	20.70	20.90	20.80	20.79
	16QAM	50	0	19.04	18.57	18.75	18.89	18.82	0	19.25	20.42	20.08	20.24	20.43	20.36
		50	24	18.91	18.60	18.79	18.84	18.80	0	19.25	20.36	20.09	20.25	20.38	20.33
		50	50	18.89	18.63	18.81	18.72	18.78	0	19.25	20.33	20.15	20.28	20.32	20.32
		100	0	18.86	18.58	18.78	18.81	18.79	0	19.25	20.32	20.07	20.22	20.36	20.30
		1	0	19.09	18.78	18.66	19.06	18.93	0	19.25	20.44	20.27	20.34	20.22	20.43
		1	49	18.98	18.73	18.69	18.97	18.81	0	19.25	20.36	20.26	20.32	20.40	20.31
		1	99	18.91	18.78	18.76	18.90	18.80	0	19.25	19.19	19.08	19.25	19.22	19.06
		50	0	19.12	18.61	18.77	18.96	18.84	0	19.25	19.15	18.72	18.95	19.15	18.97
		50	24	18.98	18.63	18.81	18.91	18.82	0	19.25	19.04	18.77	18.99	19.09	18.91
		50	50	18.94	18.72	18.81	18.79	18.80	0	19.25	19.00	18.84	19.02	18.98	18.91
		100	0	18.91	18.58	18.79	18.88	18.81	0	19.25	18.97	18.73	18.98	19.07	18.91
15 MHz	QPSK	1	0	19.12	18.60	18.76	18.87	18.78	0	19.25	20.67	20.54	20.70	20.89	20.78
		1	37	18.84	18.62	18.77	18.78	18.77	0	19.25	20.86	20.58	20.76	20.86	20.73
		1	74	18.84	18.62	18.88	18.69	18.70	0	19.25	20.83	20.58	20.80	20.78	20.68
		36	0	18.98	18.53	18.71	18.82	18.78	0	19.25	20.99	20.57	20.72	20.91	20.79
		36	20	18.87	18.61	18.76	18.80	18.80	0	19.25	20.87	20.63	20.78	20.89	20.74
		36	39	18.86	18.59	18.78	18.70	18.75	0	19.25	20.84	20.55	20.80	20.79	20.69
		75	0	18.83	18.58	18.74	18.77	18.77	0	19.25	20.86	20.55	20.75	20.87	20.75
		1	0	19.15	18.57	18.68	18.87	18.70	0	19.25	20.66	20.55	20.68	20.92	20.75
		1	37	18.89	18.57	18.74	18.83	18.70	0	19.25	20.86	20.54	20.79	20.87	20.71
		1	74	18.89	18.55	18.79	18.71	18.62	0	19.25	20.80	20.55	20.78	20.74	20.67
	16QAM	36	0	19.07	18.61	18.73	18.91	18.78	0	19.25	20.44	20.06	20.23	20.49	20.32
		36	20	18.93	18.65	18.81	18.89	18.80	0	19.25	20.43	20.10	20.28	20.47	20.32
		36	39	18.88	18.62	18.82	18.78	18.74	0	19.25	20.37	20.07	20.31	20.36	20.23
		75	0	18.89	18.63	18.79	18.80	18.79	0	19.25	20.39	20.07	20.24	20.43	20.26
		1	0	19.13	18.57	18.80	18.91	18.70	0	19.25	20.33	20.11	20.22	20.47	20.28
		1	37	18.91	18.66	18.80	18.81	18.68	0	19.25	20.40	20.15	20.27	20.38	20.26
		1	74	18.89	18.62	18.82	18.75	18.61	0	19.25	19.19	18.99	19.12	19.05	18.91
		36	0	18.97	18.64	18.74	18.86	18.80	0	19.25	19.13	18.74	18.94	19.04	19.00
		36	20	18.87	18.70	18.80	18.84	18.83	0	19.25	19.02	18.83	18.97	19.02	19.00
		36	39	18.82	18.66	18.82	18.73	18.77	0	19.25	19.01	18.81	19.02	18.92	18.95
		75	0	18.83	18.63	18.78	18.80	18.80	0	19.25	18.97	18.79	18.94	18.99	18.93
10 MHz	QPSK	1	0	19.06	18.56	18.74	18.87	18.82	0	19.25	20.66	20.53	20.71	20.86	20.88
		1	25	18.85	18.57	18.74	18.82	18.76	0	19.25	20.87	20.57	20.74	20.81	20.80
		1	49	18.89	18.65	18.82	18.73	18.75	0	19.25	20.88	20.62	20.78	20.72	20.84
		25	0	18.91	18.55	18.76	18.84	18.83	0	19.25	20.90	20.61	20.73	20.88	20.86
		25	12	18.85	18.54	18.75	18.81	18.77	0	19.25	20.88	20.53	20.73	20.86	20.81
		25	25	18.89	18.54	18.82	18.74	18.76	0	19.25	20.92	20.53	20.79	20.78	20.79
		50	0	18.87	18.55	18.76	18.82	18.78	0	19.25	20.92	20.55	20.76	20.81	20.82
		1	0	19.17	18.50	18.74	18.95	18.72	0	19.25	20.95	20.62	20.82	20.92	20.77
		1	25	18.92	18.56	18.72	18.89	18.65	0	19.25	20.75	20.69	20.81	20.86	20.69
		1	49	18.98	18.58	18.78	18.83	18.72	0	19.25	20.79	20.70	20.88	20.77	20.72
	16QAM	25	0	18.89	18.59	18.80	18.90	18.87	0	19.25	20.46	20.13	20.32	20.45	20.40
		25	12	18.85	18.58	18.78	18.86	18.82	0	19.25	20.40	20.10	20.30	20.41	20.33
		25	25	18.90	18.57	18.85	18.80	18.79	0	19.25	20.43	20.10	20.36	20.31	20.31
		50	0	18.86	18.60	18.81	18.86	18.84	0	19.25	20.42	20.11	20.29	20.41	20.36
		1	0	19.07	18.61	18.83	18.95	18.79	0	19.25	20.33	20.09	20.37	20.24	20.36
		1	25	18.88	18.62	18.71	18.87	18.75	0	19.25	20.37	20.13	20.25	20.49	20.24
		1	49	18.98	18.67	18.78	18.79	18.72	0	19.25	19.24	18.99	19.12	19.18	19.08
		25	0	18.92	18.65	18.80	18.90	18.84	0	19.25	19.03	18.82	19.01	19.10	19.00
		25	12	18.88	18.63	18.78	18.87	18.75	0	19.25	19.05	18.80	19.08	19.06	18.95
		25	25	18.92	18.63	18.85	18.81	18.73	0	19.25	19.09	18.80	19.00	18.95	18.92
	64QAM	50	0	18.89	18.64	18.82	18.87	18.78	0	19.25	19.07	18.80	18.97	19.02	18.96

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	18.84	18.63	18.75	18.93	18.84	0	19.25	20.91	20.64	20.75	20.95	20.80
		1	12	19.12	18.56	18.74	18.90	18.77	0	19.25	20.78	20.57	20.74	20.91	20.74
		1	24	19.01	18.50	18.70	18.79	18.77	0	19.25	20.87	20.50	20.83	20.85	20.70
		12	0	19.17	18.64	18.83	18.93	18.86	0	19.25	20.74	20.64	20.67	20.98	20.69
		12	7	19.14	18.59	18.80	18.90	18.81	0	19.25	20.76	20.60	20.65	20.96	20.67
		12	13	19.11	18.57	18.76	18.87	18.85	0	19.25	20.77	20.57	20.65	20.92	20.65
		25	0	19.15	18.58	18.80	18.89	18.81	0	19.25	20.77	20.59	20.67	20.94	20.67
	16QAM	1	0	19.11	18.72	18.92	19.11	18.87	0	19.25	20.88	20.65	20.75	20.58	20.81
		1	12	19.07	18.68	18.84	19.04	18.85	0	19.25	20.80	20.57	20.75	20.52	20.69
		1	24	19.16	18.58	18.83	18.91	18.83	0	19.25	20.86	20.54	20.80	20.97	20.71
		12	0	19.24	18.68	18.88	18.97	18.89	0	19.25	20.21	20.46	20.20	20.41	20.23
		12	7	19.17	18.63	18.84	18.93	18.86	0	19.25	20.23	20.43	20.15	20.48	20.15
		12	13	19.14	18.60	18.81	18.91	18.89	0	19.25	20.26	20.50	20.14	20.44	20.16
		25	0	19.15	18.65	18.83	18.94	18.86	0	19.25	20.25	19.63	20.15	20.47	20.16
	64QAM	1	0	18.83	18.62	18.78	19.21	18.87	0	19.25	20.44	20.21	20.32	20.24	20.35
		1	12	19.04	18.55	18.79	19.15	18.81	0	19.25	20.39	20.25	20.31	20.39	20.34
		1	24	19.18	18.53	18.75	19.07	18.81	0	19.25	19.25	18.49	19.17	18.48	19.04
		12	0	19.17	18.71	18.87	19.06	18.94	0	19.25	18.89	19.24	19.18	18.80	18.85
		12	7	19.15	18.66	18.84	19.01	18.85	0	19.25	18.90	19.23	19.17	18.76	18.81
		12	13	19.11	18.64	18.80	19.00	18.86	0	19.25	18.91	19.21	19.16	19.15	19.29
		25	0	19.17	18.63	18.85	19.02	18.85	0	19.25	18.83	19.29	19.13	19.22	19.26

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	25.54	25.58	25.16	25.47	0	25.70	23.84	23.90	23.89	23.71	0	24.00	
		1	49	25.60	25.70	25.70	25.70	0	25.70	23.90	23.90	23.90	23.90	0	24.00	
		1	99	25.58	25.61	25.21	25.68	0	25.70	23.74	23.90	23.90	23.84	0	24.00	
		50	0	24.56	24.51	24.08	24.37	1	24.70	23.23	23.09	23.08	23.56	0	24.00	
		50	24	24.65	24.60	24.70	24.50	1	24.70	23.70	23.50	23.50	23.60	0	24.00	
		50	50	24.58	24.47	24.06	24.49	1	24.70	23.62	23.02	23.05	23.60	0	24.00	
	16QAM	100	0	24.61	24.52	24.08	24.49	1	24.70	23.54	23.50	23.50	23.65	0	24.00	
		1	0	24.62	24.66	24.35	24.61	1	24.70	23.64	23.38	23.32	23.51	0	24.00	
		1	49	24.63	24.50	24.16	24.44	1	24.70	23.13	23.15	23.10	23.62	0	24.00	
		1	99	24.68	24.68	24.38	24.61	1	24.70	23.16	23.40	23.32	23.43	0	24.00	
		50	0	23.50	23.43	23.00	23.32	2	23.70	22.91	22.80	22.97	22.79	0.3	23.70	
		50	24	23.63	23.43	22.97	23.32	2	23.70	22.88	22.99	22.95	22.73	0.3	23.70	
	64QAM	50	50	23.56	23.43	22.95	23.43	2	23.70	22.72	22.72	22.95	22.84	0.3	23.70	
		100	0	23.65	23.54	23.05	23.45	2	23.70	22.82	22.82	22.84	22.88	0.3	23.70	
		1	0	23.60	23.44	23.04	23.50	2	23.70	22.99	22.88	23.29	22.99	0.3	23.70	
		1	49	23.66	23.41	22.85	23.38	2	23.70	22.89	23.15	23.07	22.92	0.3	23.70	
		1	99	23.67	23.31	23.08	23.63	2	23.70	22.81	22.87	22.81	22.94	0.3	23.70	
		50	0	22.51	22.41	21.77	22.32	3	22.70	21.79	21.79	21.74	21.75	1.3	22.70	
		50	24	22.62	22.35	21.73	22.31	3	22.70	21.82	21.98	21.74	21.73	1.3	22.70	
		50	50	22.51	22.40	21.73	22.43	3	22.70	21.75	22.00	22.00	21.94	1.3	22.70	
		100	0	22.64	22.49	21.84	22.45	3	22.70	21.93	21.81	21.84	21.96	1.3	22.70	
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	25.48	25.50	25.08	25.42	0	25.70	23.55	23.92	23.90	23.41	0	24.00	
		1	37	25.55	25.37	25.03	25.36	0	25.70	23.52	23.86	23.83	23.40	0	24.00	
		1	74	25.63	25.54	25.11	25.58	0	25.70	23.70	23.70	23.67	23.28	0	24.00	
		36	0	24.45	24.44	24.01	24.35	1	24.70	23.15	23.54	23.41	23.48	0	24.00	
		36	20	24.59	24.44	24.01	24.43	1	24.70	23.18	23.46	23.41	23.54	0	24.00	
		36	39	24.59	24.37	24.01	24.45	1	24.70	23.17	23.44	23.42	23.56	0	24.00	
	16QAM	75	0	24.59	24.42	24.05	24.49	1	24.70	23.18	23.52	23.46	23.61	0	24.00	
		1	0	24.51	24.49	24.07	24.40	1	24.70	23.17	23.67	23.45	23.61	0	24.00	
		1	37	24.56	24.38	24.02	24.40	1	24.70	23.17	23.52	23.44	23.55	0	24.00	
		1	74	24.67	24.53	24.10	24.56	1	24.70	23.27	23.59	23.56	23.69	0	24.00	
		36	0	23.38	23.35	22.91	23.26	2	23.70	22.91	23.04	22.94	23.00	0.3	23.70	
		36	20	23.53	23.35	22.96	23.35	2	23.70	22.95	22.98	22.94	23.03	0.3	23.70	
	64QAM	36	39	23.50	23.33	22.98	23.36	2	23.70	22.71	22.96	22.96	23.04	0.3	23.70	
		75	0	23.59	23.41	23.02	23.39	2	23.70	22.72	23.03	22.98	23.12	0.3	23.70	
		1	0	23.55	23.58	22.86	23.45	2	23.70	22.84	23.28	23.14	22.92	0.3	23.70	
		1	37	23.60	23.41	22.84	23.40	2	23.70	22.80	23.11	23.05	22.93	0.3	23.70	
		1	74	23.63	23.60	22.89	23.60	2	23.70	22.98	23.24	23.20	22.85	0.3	23.70	
		36	0	22.34	22.30	22.02	22.21	3	22.70	21.94	22.00	21.96	21.95	1.3	22.70	
		36	20	22.46	22.29	22.03	22.27	3	22.70	21.95	21.93	21.96	22.03	1.3	22.70	
		36	39	22.45	22.27	22.03	22.29	3	22.70	21.71	21.90	21.94	22.04	1.3	22.70	
		75	0	22.50	22.32	21.71	22.34	3	22.70	21.74	21.97	22.01	22.06	1.3	22.70	
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	25.53	25.58	25.11	25.42	0	25.70	23.60	23.89	23.91	23.89	0	24.00	
		1	25	25.47	25.22	24.86	25.20	0	25.70	23.39	23.71	23.63	23.74	0	24.00	
		1	49	25.61	25.44	25.05	25.51	0	25.70	23.71	23.65	23.59	23.72	0	24.00	
		25	0	24.50	24.48	24.07	24.44	1	24.70	23.13	23.49	23.51	23.56	0	24.00	
		25	12	24.50	24.41	24.00	24.38	1	24.70	23.10	23.43	23.45	23.49	0	24.00	
		25	25	24.62	24.45	24.04	24.43	1	24.70	23.19	23.47	23.50	23.55	0	24.00	
	16QAM	50	0	24.63	24.54	24.14	24.53	1	24.70	23.16	23.58	23.60	23.64	0	24.00	
		1	0	24.67	24.68	24.24	24.55	1	24.70	23.29	23.48	23.69	23.64	0	24.00	
		1	25	24.61	24.37	23.98	24.34	1	24.70	23.04	23.41	23.46	23.49	0	24.00	
		1	49	24.65	24.66	24.14	24.66	1	24.70	23.38	23.54	23.51	23.55	0	24.00	
		25	0	23.44	23.38	22.99	23.33	2	23.70	22.86	22.97	22.98	23.03	0.3	23.70	
		25	12	23.42	23.29	22.91	23.29	2	23.70	22.85	22.90	22.91	22.97	0.3	23.70	
	64QAM	25	25	23.53	23.33	22.96	23.34	2	23.70	22.75	22.94	22.95	23.01	0.3	23.70	
		50	0	23.60	23.51	23.13	23.47	2	23.70	22.72	23.13	23.15	23.19	0.3	23.70	
		1	0	23.52	23.54	23.21	23.34	2	23.70	22.75	23.18	23.08	23.01	0.3	23.70	
		1	25	23.44	23.21	23.01	23.20	2	23.70	22.77	22.93	22.87	22.83	0.3	23.70	
		1	49	23.69	23.44	23.11	23.54	2	23.70	22.84	23.18	23.07	22.79	0.3	23.70	
		25	0	22.34	22.30	22.02	22.31	3	22.70	21.86	21.92	21.96	21.96	1.3	22.70	
		25	12	22.34	22.23	21.97	22.25	3	22.70	21.82	21.86	21.90	21.90	1.3	22.70	
		25	25	22.46	22.28	22.02	22.31	3	22.70	21.73	21.92	21.94	21.95	1.3	22.70	
		50	0	22.54	22.41	22.15	22.42	3	22.70	21.74	22.09	22.11	22.08	1.3	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	25.42	25.42	25.10	25.49	0	25.70	23.47	23.87	23.83	23.92	0	24.00
		1	12	25.22	25.21	24.89	25.21	0	25.70	23.24	23.65	23.69	23.65	0	24.00
		1	24	25.50	25.46	25.12	25.51	0	25.70	23.61	23.60	23.59	23.67	0	24.00
		12	0	24.35	24.37	23.98	24.39	1	24.70	23.01	23.40	23.42	23.47	0	24.00
		12	7	24.33	24.32	23.94	24.30	1	24.70	23.24	23.32	23.32	23.32	0	24.00
		12	13	24.39	24.35	24.00	24.35	1	24.70	23.03	23.38	23.40	23.39	0	24.00
		25	0	24.47	24.54	24.16	24.55	1	24.70	23.14	23.55	23.59	23.58	0	24.00
	16QAM	1	0	24.37	24.50	24.18	24.52	1	24.70	23.10	23.64	23.57	23.55	0	24.00
		1	12	24.26	24.25	23.91	24.31	1	24.70	23.50	23.35	23.29	23.34	0	24.00
		1	24	24.46	24.47	24.10	24.56	1	24.70	23.25	23.61	23.52	23.61	0	24.00
		12	0	23.18	23.19	22.82	23.19	2	23.70	23.30	23.13	23.12	23.18	0.3	23.70
		12	7	23.11	23.14	22.74	23.18	2	23.70	23.18	23.06	23.03	23.06	0.3	23.70
		12	13	23.14	23.19	22.76	23.18	2	23.70	23.28	23.10	23.09	23.08	0.3	23.70
		25	0	23.36	23.39	22.98	23.36	2	23.70	22.90	23.29	23.31	23.33	0.3	23.70
	64QAM	1	0	23.26	23.27	23.11	23.35	2	23.70	22.90	23.40	23.38	23.27	0.3	23.70
		1	12	23.19	23.13	22.81	23.07	2	23.70	23.07	23.12	23.23	23.20	0.3	23.70
		1	24	23.52	23.40	23.16	23.42	2	23.70	22.92	23.25	23.43	23.28	0.3	23.70
		12	0	22.08	22.13	21.80	22.27	3	22.70	22.19	22.23	22.07	22.06	1.3	22.70
		12	7	22.10	22.05	21.78	22.16	3	22.70	22.05	21.95	21.87	22.09	1.3	22.70
		12	13	22.21	22.10	21.78	22.14	3	22.70	22.02	22.02	21.91	22.04	1.3	22.70
		25	0	22.36	22.28	22.02	22.30	3	22.70	22.19	22.20	22.24	22.28	1.3	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	22.37	22.41	22.50	22.50	0	22.50	22.37	22.41	22.50	22.50	0	22.50
		1	49	22.40	22.50	22.50	22.50	0	22.50	22.40	22.50	22.50	22.50	0	22.50
		1	99	22.36	22.37	22.40	22.40	0	22.50	22.36	22.37	22.40	22.40	0	22.50
		50	0	21.34	21.31	21.39	21.45	1	21.50	21.34	21.31	21.39	21.45	1	21.50
		50	24	21.34	21.50	21.50	21.48	1	21.50	21.34	21.50	21.50	21.48	1	21.50
		50	50	21.28	21.48	21.44	21.40	1	21.50	21.28	21.48	21.44	21.40	1	21.50
	16QAM	100	0	21.48	21.31	21.49	21.41	1	21.50	21.48	21.31	21.49	21.41	1	21.50
		1	0	21.50	21.46	21.47	21.32	1	21.50	21.50	21.46	21.47	21.32	1	21.50
		1	49	21.32	21.39	21.31	21.35	1	21.50	21.32	21.39	21.31	21.35	1	21.50
		1	99	21.40	21.33	21.38	21.38	1	21.50	21.40	21.33	21.38	21.38	1	21.50
		50	0	20.33	20.46	20.41	20.39	2	20.50	20.33	20.46	20.41	20.39	2	20.50
		50	24	20.37	20.43	20.39	20.45	2	20.50	20.37	20.43	20.39	20.45	2	20.50
	64QAM	50	50	20.28	20.42	20.45	20.37	2	20.50	20.28	20.42	20.45	20.37	2	20.50
		100	0	20.31	20.36	20.50	20.40	2	20.50	20.31	20.36	20.50	20.40	2	20.50
		1	0	20.47	20.35	20.44	20.41	2	20.50	20.47	20.35	20.44	20.41	2	20.50
		1	49	20.38	20.34	20.45	20.31	2	20.50	20.38	20.34	20.45	20.31	2	20.50
		1	99	20.44	20.37	20.36	20.43	2	20.50	20.44	20.37	20.36	20.43	2	20.50
		50	0	19.44	19.41	19.33	19.33	3	19.50	19.44	19.41	19.33	19.33	3	19.50
15 MHz	QPSK	50	24	19.47	19.35	19.32	19.40	3	19.50	19.47	19.35	19.32	19.40	3	19.50
		50	50	19.40	19.39	19.45	19.31	3	19.50	19.40	19.39	19.45	19.31	3	19.50
		100	0	19.41	19.45	19.44	19.33	3	19.50	19.41	19.45	19.44	19.33	3	19.50
	16QAM	1	0	22.31	22.30	22.45	22.45	0	22.50	22.31	22.30	22.45	22.45	0	22.50
		1	37	22.33	22.37	22.43	22.48	0	22.50	22.33	22.37	22.43	22.48	0	22.50
		1	74	22.37	22.34	22.33	22.32	0	22.50	22.37	22.34	22.33	22.32	0	22.50
		36	0	21.44	21.45	21.39	21.43	1	21.50	21.44	21.45	21.39	21.43	1	21.50
		36	20	21.46	21.39	21.39	21.33	1	21.50	21.46	21.39	21.39	21.33	1	21.50
		36	39	21.32	21.38	21.39	21.34	1	21.50	21.32	21.38	21.39	21.34	1	21.50
	64QAM	75	0	21.33	21.42	21.42	21.34	1	21.50	21.33	21.42	21.42	21.34	1	21.50
		1	0	21.30	21.37	21.31	21.42	1	21.50	21.30	21.37	21.31	21.42	1	21.50
		1	37	21.48	21.44	21.42	21.47	1	21.50	21.48	21.44	21.42	21.47	1	21.50
		1	74	21.48	21.38	21.35	21.31	1	21.50	21.48	21.38	21.35	21.31	1	21.50
		36	0	20.38	20.41	20.32	20.35	2	20.50	20.38	20.41	20.32	20.35	2	20.50
		36	20	20.48	20.34	20.37	20.43	2	20.50	20.48	20.34	20.37	20.43	2	20.50
10 MHz	QPSK	36	39	20.31	20.32	20.39	20.48	2	20.50	20.31	20.32	20.39	20.48	2	20.50
		75	0	20.35	20.39	20.43	20.32	2	20.50	20.35	20.39	20.43	20.32	2	20.50
	16QAM	1	0	20.48	20.47	20.48	20.47	2	20.50	20.48	20.47	20.48	20.47	2	20.50
		1	37	20.43	20.37	20.42	20.33	2	20.50	20.43	20.37	20.42	20.33	2	20.50
		1	74	20.40	20.32	20.49	20.45	2	20.50	20.40	20.32	20.49	20.45	2	20.50
		36	0	19.22	19.29	19.29	19.34	3	19.50	19.22	19.29	19.29	19.34	3	19.50
	64QAM	36	20	19.27	19.30	19.30	19.38	3	19.50	19.27	19.30	19.30	19.38	3	19.50
		36	39	19.25	19.29	19.31	19.40	3	19.50	19.25	19.29	19.31	19.40	3	19.50
		75	0	19.33	19.33	19.35	19.50	3	19.50	19.33	19.33	19.35	19.50	3	19.50
	QPSK	1	0	22.46	22.40	22.38	22.42	0	22.50	22.46	22.40	22.38	22.42	0	22.50
		1	25	22.49	22.42	22.46	22.41	0	22.50	22.49	22.42	22.46	22.41	0	22.50
		1	49	22.41	22.34	22.47	22.33	0	22.50	22.41	22.34	22.47	22.33	0	22.50
		25	0	21.46	21.43	21.47	21.36	1	21.50	21.46	21.43	21.47	21.36	1	21.50
		25	12	21.46	21.37	21.40	21.30	1	21.50	21.46	21.37	21.40	21.30	1	21.50
		25	25	21.48	21.42	21.44	21.48	1	21.50	21.48	21.42	21.44	21.48	1	21.50
	16QAM	50	0	21.35	21.50	21.32	21.48	1	21.50	21.35	21.50	21.32	21.48	1	21.50
		1	0	21.45	21.40	21.46	21.37	1	21.50	21.45	21.40	21.46	21.37	1	21.50
		1	25	21.34	21.33	21.45	21.39	1	21.50	21.34	21.33	21.45	21.39	1	21.50
		1	49	21.42	21.37	21.46	21.33	1	21.50	21.42	21.37	21.46	21.33	1	21.50
		25	0	20.40	20.48	20.35	20.40	2	20.50	20.40	20.48	20.35	20.40	2	20.50
		25	12	20.41	20.48	20.48	20.34	2	20.50	20.41	20.48	20.48	20.34	2	20.50
	64QAM	25	25	20.43	20.32	20.38	20.39	2	20.50	20.43	20.32	20.38	20.39	2	20.50
		50	0	20.40	20.35	20.35	20.46	2	20.50	20.40	20.35	20.35	20.46	2	20.50
		1	0	20.34	20.30	20.30	20.46	2	20.50	20.34	20.30	20.30	20.46	2	20.50
		1	25	20.22	20.29	20.20	20.35	2	20.50	20.22	20.29	20.20	20.35	2	20.50
		1	49	20.40	20.48	20.32	20.38	2	20.50	20.40	20.48	20.32	20.38	2	20.50
		25	0	19.20	19.31	19.30	19.38	3	19.50	19.20	19.31	19.30	19.38	3	19.50
	64QAM	25	12	19.16	19.25	19.22	19.34	3	19.50	19.16	19.25	19.22	19.34	3	19.50
		25	25	19.28	19.30	19.29	19.31	3	19.50	19.28	19.30	19.29	19.31	3	19.50
	64QAM	50	0	19.36	19.48	19.43	19.38	3	19.50	19.36	19.48	19.43	19.38	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	22.43	22.32	22.33	22.44	0	22.50	22.43	22.32	22.33	22.44	0	22.50
		1	12	22.33	22.38	22.38	22.45	0	22.50	22.33	22.38	22.38	22.45	0	22.50
		1	24	22.48	22.46	22.39	22.39	0	22.50	22.48	22.46	22.39	22.39	0	22.50
		12	0	21.49	21.33	21.35	21.40	1	21.50	21.49	21.33	21.35	21.40	1	21.50
		12	7	21.50	21.44	21.48	21.32	1	21.50	21.50	21.44	21.48	21.32	1	21.50
		12	13	21.34	21.30	21.33	21.37	1	21.50	21.34	21.30	21.33	21.37	1	21.50
		25	0	21.32	21.41	21.49	21.36	1	21.50	21.32	21.41	21.49	21.36	1	21.50
	16QAM	1	0	21.32	21.47	21.33	21.37	1	21.50	21.32	21.47	21.33	21.37	1	21.50
		1	12	21.40	21.35	21.47	21.47	1	21.50	21.40	21.35	21.47	21.47	1	21.50
		1	24	21.35	21.46	21.47	21.44	1	21.50	21.35	21.46	21.47	21.44	1	21.50
		12	0	20.43	20.38	20.38	20.46	2	20.50	20.43	20.38	20.38	20.46	2	20.50
		12	7	20.40	20.31	20.32	20.40	2	20.50	20.40	20.31	20.32	20.40	2	20.50
		12	13	20.43	20.34	20.41	20.41	2	20.50	20.43	20.34	20.41	20.41	2	20.50
		25	0	20.41	20.36	20.40	20.41	2	20.50	20.41	20.36	20.40	20.41	2	20.50
	64QAM	1	0	20.29	20.34	20.27	20.33	2	20.50	20.29	20.34	20.27	20.33	2	20.50
		1	12	20.07	20.39	20.12	20.14	2	20.50	20.07	20.39	20.12	20.14	2	20.50
		1	24	20.41	20.38	20.38	20.40	2	20.50	20.41	20.38	20.38	20.40	2	20.50
		12	0	19.01	19.01	19.28	19.08	3	19.50	19.01	19.01	19.28	19.08	3	19.50
		12	7	19.16	18.98	19.04	19.43	3	19.50	19.16	18.98	19.04	19.43	3	19.50
		12	13	19.17	19.20	19.21	19.35	3	19.50	19.17	19.20	19.21	19.35	3	19.50
		25	0	19.28	19.40	19.31	19.26	3	19.50	19.28	19.40	19.31	19.26	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	25.25	24.89	24.66	24.88	0	25.50	25.25	24.89	24.66	24.88	0	25.50
		1	49	25.42	25.20	25.10	25.44	0	25.50	25.42	25.20	25.10	25.44	0	25.50
		1	99	25.23	24.63	24.79	24.96	0	25.50	25.23	24.63	24.79	24.96	0	25.50
		50	0	24.07	23.79	23.57	23.84	1	24.50	24.07	23.79	23.57	23.84	1	24.50
		50	24	24.38	24.13	24.13	24.39	1	24.50	24.38	24.13	24.13	24.39	1	24.50
		50	50	24.05	23.79	23.55	23.82	1	24.50	24.05	23.79	23.55	23.82	1	24.50
	16QAM	100	0	24.50	24.25	24.19	24.50	1	24.50	24.50	24.25	24.19	24.50	1	24.50
		1	0	24.36	24.26	23.87	24.09	1	24.50	24.36	24.26	23.87	24.09	1	24.50
		1	49	24.13	23.90	23.63	23.93	1	24.50	24.13	23.90	23.63	23.93	1	24.50
		1	99	24.42	24.08	23.92	24.16	1	24.50	24.42	24.08	23.92	24.16	1	24.50
		50	0	23.09	22.91	22.52	22.86	2	23.50	23.09	22.91	22.52	22.86	2	23.50
		50	24	23.00	22.79	22.50	22.85	2	23.50	23.00	22.79	22.50	22.85	2	23.50
	64QAM	50	50	23.03	22.81	22.53	22.83	2	23.50	23.03	22.81	22.53	22.83	2	23.50
		100	0	23.11	22.92	22.61	22.97	2	23.50	23.11	22.92	22.61	22.97	2	23.50
		1	0	23.40	23.34	22.77	22.92	2	23.50	23.40	23.34	22.77	22.92	2	23.50
		1	49	23.12	23.00	22.60	22.83	2	23.50	23.12	23.00	22.60	22.83	2	23.50
		1	99	23.49	23.21	22.84	23.12	2	23.50	23.49	23.21	22.84	23.12	2	23.50
		50	0	22.09	21.96	21.92	21.80	3	22.50	22.09	21.96	21.92	21.80	3	22.50
15 MHz	QPSK	50	24	21.99	21.83	21.94	21.78	3	22.50	21.99	21.83	21.94	21.78	3	22.50
		50	50	22.01	21.82	21.95	21.78	3	22.50	22.01	21.82	21.95	21.78	3	22.50
		100	0	22.13	21.94	21.52	21.93	3	22.50	22.13	21.94	21.52	21.93	3	22.50
	16QAM	1	0	25.13	24.74	24.51	24.84	0	25.50	25.13	24.74	24.51	24.84	0	25.50
		1	37	25.06	24.60	24.95	24.72	0	25.50	25.06	24.60	24.95	24.72	0	25.50
		1	74	25.16	24.61	24.65	24.96	0	25.50	25.16	24.61	24.65	24.96	0	25.50
		36	0	24.03	23.64	23.53	23.92	1	24.50	24.03	23.64	23.53	23.92	1	24.50
		36	20	24.04	23.59	23.99	23.84	1	24.50	24.04	23.59	23.99	23.84	1	24.50
		36	39	23.97	24.00	23.52	23.83	1	24.50	23.97	24.00	23.52	23.83	1	24.50
	64QAM	75	0	24.10	23.63	23.53	23.90	1	24.50	24.10	23.63	23.53	23.90	1	24.50
		1	0	24.16	23.79	23.57	23.93	1	24.50	24.16	23.79	23.57	23.93	1	24.50
		1	37	24.08	23.66	23.51	23.81	1	24.50	24.08	23.66	23.51	23.81	1	24.50
		1	74	24.16	23.68	23.65	24.04	1	24.50	24.16	23.68	23.65	24.04	1	24.50
		36	0	23.01	22.63	22.94	22.83	2	23.50	23.01	22.63	22.94	22.83	2	23.50
		36	20	23.00	22.54	22.95	22.77	2	23.50	23.00	22.54	22.95	22.77	2	23.50
10 MHz	QPSK	36	39	22.94	22.96	22.98	22.76	2	23.50	22.94	22.96	22.98	22.76	2	23.50
		75	0	23.07	22.60	22.51	22.82	2	23.50	23.07	22.60	22.51	22.82	2	23.50
	16QAM	1	0	23.22	22.92	22.62	22.95	2	23.50	23.22	22.92	22.62	22.95	2	23.50
		1	37	23.20	22.78	22.62	22.87	2	23.50	23.20	22.78	22.62	22.87	2	23.50
		1	74	23.21	22.78	22.74	23.07	2	23.50	23.21	22.78	22.74	23.07	2	23.50
		36	0	21.96	21.63	21.94	21.75	3	22.50	21.96	21.63	21.94	21.75	3	22.50
	64QAM	36	20	21.96	21.54	21.95	21.71	3	22.50	21.96	21.54	21.95	21.71	3	22.50
		36	39	21.88	21.98	21.98	21.70	3	22.50	21.88	21.98	21.98	21.70	3	22.50
		75	0	22.03	21.62	22.00	21.77	3	22.50	22.03	21.62	22.00	21.77	3	22.50
	QPSK	1	0	25.09	24.75	24.53	24.93	0	25.50	25.09	24.75	24.53	24.93	0	25.50
		1	25	24.86	24.54	24.55	24.59	0	25.50	24.86	24.54	24.55	24.59	0	25.50
		1	49	25.15	24.63	24.63	24.87	0	25.50	25.15	24.63	24.63	24.87	0	25.50
		25	0	24.08	23.62	23.62	23.88	1	24.50	24.08	23.62	23.62	23.88	1	24.50
		25	12	24.02	23.55	23.57	23.81	1	24.50	24.02	23.55	23.57	23.81	1	24.50
		25	25	24.08	23.56	23.64	23.89	1	24.50	24.08	23.56	23.64	23.89	1	24.50
	16QAM	50	0	24.14	23.71	23.72	23.93	1	24.50	24.14	23.71	23.72	23.93	1	24.50
		1	0	24.31	23.98	23.78	24.06	1	24.50	24.31	23.98	23.78	24.06	1	24.50
		1	25	24.14	23.64	23.57	23.80	1	24.50	24.14	23.64	23.57	23.80	1	24.50
		1	49	24.29	23.78	23.82	24.11	1	24.50	24.29	23.78	23.82	24.11	1	24.50
		25	0	23.07	22.59	22.52	22.79	2	23.50	23.07	22.59	22.52	22.79	2	23.50
		25	12	22.99	22.50	22.57	22.71	2	23.50	22.99	22.50	22.57	22.71	2	23.50
	64QAM	25	25	23.04	22.57	22.52	22.82	2	23.50	23.04	22.57	22.52	22.82	2	23.50
		50	0	23.18	22.70	22.70	22.92	2	23.50	23.18	22.70	22.70	22.92	2	23.50
		1	0	23.22	22.84	22.59	22.90	2	23.50	23.22	22.84	22.59	22.90	2	23.50
		1	25	23.00	22.57	22.57	22.67	2	23.50	23.00	22.57	22.57	22.67	2	23.50
		1	49	23.15	22.79	22.66	22.96	2	23.50	23.15	22.79	22.66	22.96	2	23.50
		25	0	22.00	21.57	21.52	21.77	3	22.50	22.00	21.57	21.52	21.77	3	22.50
	QPSK	25	12	21.93	21.60	21.57	21.70	3	22.50	21.93	21.60	21.57	21.70	3	22.50
		25	25	21.95	21.57	21.54	21.80	3	22.50	21.95	21.57	21.54	21.80	3	22.50
		50	0	22.10	21.71	21.51	21.86	3	22.50	22.10	21.71	21.51	21.86	3	22.50

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	25.03	24.66	24.56	24.86	0	25.50	25.03	24.66	24.56	24.86	0	25.50
		1	12	24.68	24.52	24.56	24.66	0	25.50	24.68	24.52	24.56	24.66	0	25.50
		1	24	25.04	24.57	24.59	24.88	0	25.50	25.04	24.57	24.59	24.88	0	25.50
		12	0	23.94	23.55	23.52	23.77	1	24.50	23.94	23.55	23.52	23.77	1	24.50
		12	7	23.83	23.56	23.56	23.66	1	24.50	23.83	23.56	23.56	23.66	1	24.50
		12	13	23.91	23.54	23.54	23.68	1	24.50	23.91	23.54	23.54	23.68	1	24.50
		25	0	24.05	23.70	23.68	23.86	1	24.50	24.05	23.70	23.68	23.86	1	24.50
	16QAM	1	0	23.95	23.95	23.62	23.88	1	24.50	23.95	23.95	23.62	23.88	1	24.50
		1	12	23.65	23.63	23.56	23.66	1	24.50	23.65	23.63	23.56	23.66	1	24.50
		1	24	24.04	23.90	23.61	23.89	1	24.50	24.04	23.90	23.61	23.89	1	24.50
		12	0	22.81	22.60	22.51	22.59	2	23.50	22.81	22.60	22.51	22.59	2	23.50
		12	7	22.77	22.61	22.55	22.60	2	23.50	22.77	22.61	22.55	22.60	2	23.50
		12	13	22.75	22.66	22.57	22.63	2	23.50	22.75	22.66	22.57	22.63	2	23.50
		25	0	22.99	22.84	22.56	22.82	2	23.50	22.99	22.84	22.56	22.82	2	23.50
	64QAM	1	0	23.02	22.90	22.52	22.81	2	23.50	23.02	22.90	22.52	22.81	2	23.50
		1	12	22.70	22.66	22.59	22.55	2	23.50	22.70	22.66	22.59	22.55	2	23.50
		1	24	22.92	22.86	22.56	22.76	2	23.50	22.92	22.86	22.56	22.76	2	23.50
		12	0	21.71	21.79	21.57	21.74	3	22.50	21.71	21.79	21.57	21.74	3	22.50
		12	7	21.71	21.54	21.53	21.55	3	22.50	21.71	21.54	21.53	21.55	3	22.50
		12	13	21.81	21.58	21.51	21.74	3	22.50	21.81	21.58	21.51	21.74	3	22.50
		25	0	21.97	21.77	21.52	21.82	3	22.50	21.97	21.77	21.52	21.82	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	22.29	22.39	22.38	22.18	0	22.50	22.29	22.39	22.38	22.18	0	22.50
		1	49	22.40	22.40	22.40	22.20	0	22.50	22.40	22.40	22.40	22.20	0	22.50
		1	99	22.31	22.40	22.32	22.14	0	22.50	22.31	22.40	22.32	22.14	0	22.50
		50	0	21.10	21.23	21.13	21.08	1	21.50	21.10	21.23	21.13	21.08	1	21.50
		50	24	21.20	21.49	21.50	21.50	1	21.50	21.20	21.49	21.50	21.50	1	21.50
		50	50	21.07	21.18	21.14	21.10	1	21.50	21.07	21.18	21.14	21.10	1	21.50
	16QAM	100	0	21.50	21.50	21.50	21.50	1	21.50	21.50	21.50	21.50	21.50	1	21.50
		1	0	21.34	21.15	21.18	21.07	1	21.50	21.34	21.15	21.18	21.07	1	21.50
		1	49	21.17	21.28	21.25	21.19	1	21.50	21.17	21.28	21.25	21.19	1	21.50
		1	99	21.43	21.12	21.11	21.27	1	21.50	21.43	21.12	21.11	21.27	1	21.50
		50	0	20.05	20.23	20.12	20.04	2	20.50	20.05	20.23	20.12	20.04	2	20.50
		50	24	20.20	20.12	20.10	20.04	2	20.50	20.20	20.12	20.10	20.04	2	20.50
	64QAM	50	50	20.01	20.17	20.12	20.05	2	20.50	20.01	20.17	20.12	20.05	2	20.50
		100	0	20.11	20.23	20.18	20.15	2	20.50	20.11	20.23	20.18	20.15	2	20.50
		1	0	20.27	20.42	20.11	20.33	2	20.50	20.27	20.42	20.11	20.33	2	20.50
		1	49	20.02	20.21	20.34	20.16	2	20.50	20.02	20.21	20.34	20.16	2	20.50
		1	99	20.27	20.49	20.11	20.37	2	20.50	20.27	20.49	20.11	20.37	2	20.50
		50	0	19.02	19.22	19.16	19.45	3	19.50	19.02	19.22	19.16	19.45	3	19.50
15 MHz	QPSK	50	24	19.17	19.12	19.12	19.45	3	19.50	19.17	19.12	19.12	19.45	3	19.50
		50	50	19.19	19.13	19.14	19.47	3	19.50	19.19	19.13	19.14	19.47	3	19.50
		100	0	19.10	19.25	19.19	19.04	3	19.50	19.10	19.25	19.19	19.04	3	19.50
	16QAM	1	0	22.07	22.27	22.19	22.12	0	22.50	22.07	22.27	22.19	22.12	0	22.50
		1	37	22.01	22.13	22.12	22.17	0	22.50	22.01	22.13	22.12	22.17	0	22.50
		1	74	22.12	22.26	22.23	22.02	0	22.50	22.12	22.26	22.23	22.02	0	22.50
		36	0	21.02	21.18	21.11	21.05	1	21.50	21.02	21.18	21.11	21.05	1	21.50
		36	20	21.01	21.10	21.11	21.01	1	21.50	21.01	21.10	21.11	21.01	1	21.50
		36	39	21.04	21.09	21.10	21.05	1	21.50	21.04	21.09	21.10	21.05	1	21.50
	64QAM	75	0	21.04	21.17	21.14	21.08	1	21.50	21.04	21.17	21.14	21.08	1	21.50
		1	0	21.09	21.28	21.29	21.11	1	21.50	21.09	21.28	21.29	21.11	1	21.50
		1	37	21.13	21.12	21.24	21.01	1	21.50	21.13	21.12	21.24	21.01	1	21.50
		1	74	21.05	21.25	21.36	21.19	1	21.50	21.05	21.25	21.36	21.19	1	21.50
		36	0	20.17	20.13	20.06	20.19	2	20.50	20.17	20.13	20.06	20.19	2	20.50
		36	20	20.16	20.07	20.06	20.13	2	20.50	20.16	20.07	20.06	20.13	2	20.50
10 MHz	QPSK	36	39	20.16	20.05	20.05	20.16	2	20.50	20.16	20.05	20.05	20.16	2	20.50
		75	0	20.01	20.10	20.12	20.02	2	20.50	20.01	20.10	20.12	20.02	2	20.50
	16QAM	1	0	20.18	20.33	20.30	20.16	2	20.50	20.18	20.33	20.30	20.16	2	20.50
		1	37	20.00	20.20	20.20	20.00	2	20.50	20.00	20.20	20.20	20.00	2	20.50
		1	74	20.15	20.32	20.33	20.18	2	20.50	20.15	20.32	20.33	20.18	2	20.50
		36	0	19.10	19.11	19.05	19.15	3	19.50	19.10	19.11	19.05	19.15	3	19.50
	64QAM	36	20	19.10	19.01	19.05	19.08	3	19.50	19.10	19.01	19.05	19.08	3	19.50
		36	39	19.11	19.01	19.03	19.12	3	19.50	19.11	19.01	19.03	19.12	3	19.50
		75	0	19.17	19.10	19.08	19.19	3	19.50	19.17	19.10	19.08	19.19	3	19.50
	QPSK	1	0	22.17	22.26	22.21	22.02	0	22.50	22.17	22.26	22.21	22.02	0	22.50
		1	25	22.15	22.01	21.98	22.08	0	22.50	22.15	22.01	21.98	22.08	0	22.50
		1	49	22.20	22.24	22.25	22.16	0	22.50	22.20	22.24	22.25	22.16	0	22.50
		25	0	21.11	21.21	21.17	21.04	1	21.50	21.11	21.21	21.17	21.04	1	21.50
		25	12	21.04	21.10	21.09	21.20	1	21.50	21.04	21.10	21.09	21.20	1	21.50
		25	25	21.10	21.14	21.13	21.09	1	21.50	21.10	21.14	21.13	21.09	1	21.50
	16QAM	50	0	21.14	21.24	21.24	21.15	1	21.50	21.14	21.24	21.24	21.15	1	21.50
		1	0	21.29	21.43	21.40	21.02	1	21.50	21.29	21.43	21.40	21.02	1	21.50
		1	25	21.03	21.09	21.19	21.18	1	21.50	21.03	21.09	21.19	21.18	1	21.50
		1	49	21.30	21.35	21.38	21.15	1	21.50	21.30	21.35	21.38	21.15	1	21.50
		25	0	20.19	20.08	20.14	20.13	2	20.50	20.19	20.08	20.14	20.13	2	20.50
		25	12	20.11	20.02	20.05	20.08	2	20.50	20.11	20.02	20.05	20.08	2	20.50
	64QAM	25	25	20.16	20.06	20.09	20.17	2	20.50	20.16	20.06	20.09	20.17	2	20.50
		50	0	20.08	20.20	20.22	20.08	2	20.50	20.08	20.20	20.22	20.08	2	20.50
		1	0	20.06	20.14	20.30	20.11	2	20.50	20.06	20.14	20.30	20.11	2	20.50
		1	25	20.14	19.92	20.01	20.18	2	20.50	20.14	19.92	20.01	20.18	2	20.50
		1	49	20.17	20.21	20.31	20.09	2	20.50	20.17	20.21	20.31	20.09	2	20.50
		25	0	19.12	19.09	19.05	19.14	3	19.50	19.12	19.09	19.05	19.14	3	19.50
	64QAM	25	12	19.05	19.04	18.99	19.02	3	19.50	19.05	19.04	18.99	19.02	3	19.50
		25	25	19.10	19.08	19.02	19.11	3	19.50	19.10	19.08	19.02	19.11	3	19.50
	64QAM	50	0	19.01	19.24	19.19	19.03	3	19.50	19.01	19.24	19.19	19.03	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	22.43	22.47	22.21	22.19	0	22.50	22.43	22.47	22.21	22.19	0	22.50
		1	12	22.10	22.28	22.09	22.29	0	22.50	22.10	22.28	22.09	22.29	0	22.50
		1	24	22.25	22.18	22.23	22.19	0	22.50	22.25	22.18	22.23	22.19	0	22.50
		12	0	21.45	21.46	21.04	21.44	1	21.50	21.45	21.46	21.04	21.44	1	21.50
		12	7	21.40	21.40	21.18	21.39	1	21.50	21.40	21.40	21.18	21.39	1	21.50
		12	13	21.28	21.49	21.04	21.28	1	21.50	21.28	21.49	21.04	21.28	1	21.50
		25	0	21.08	21.29	21.23	21.32	1	21.50	21.08	21.29	21.23	21.32	1	21.50
	16QAM	1	0	21.40	21.25	21.31	21.32	1	21.50	21.40	21.25	21.31	21.32	1	21.50
		1	12	21.26	21.43	21.18	21.37	1	21.50	21.26	21.43	21.18	21.37	1	21.50
		1	24	21.09	21.32	21.21	21.22	1	21.50	21.09	21.32	21.21	21.22	1	21.50
		12	0	20.25	20.36	20.09	20.43	2	20.50	20.25	20.36	20.09	20.43	2	20.50
		12	7	20.20	20.47	20.04	20.26	2	20.50	20.20	20.47	20.04	20.26	2	20.50
		12	13	20.11	20.35	20.06	20.15	2	20.50	20.11	20.35	20.06	20.15	2	20.50
		25	0	20.01	20.19	20.03	20.07	2	20.50	20.01	20.19	20.03	20.07	2	20.50
	64QAM	1	0	20.34	20.35	20.17	20.46	2	20.50	20.34	20.35	20.17	20.46	2	20.50
		1	12	20.21	20.34	20.08	20.05	2	20.50	20.21	20.34	20.08	20.05	2	20.50
		1	24	20.13	20.20	20.17	20.18	2	20.50	20.13	20.20	20.17	20.18	2	20.50
		12	0	19.34	19.37	19.04	19.46	3	19.50	19.34	19.37	19.04	19.46	3	19.50
		12	7	19.28	19.31	19.01	19.40	3	19.50	19.28	19.31	19.01	19.40	3	19.50
		12	13	19.15	19.40	19.15	19.27	3	19.50	19.15	19.40	19.15	19.27	3	19.50
		25	0	18.98	19.20	19.04	19.01	3	19.50	18.98	19.20	19.04	19.01	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	25.49	25.55	0	25.70	17.72	17.70	17.87	0	18.00
		1	49	25.70	25.70	25.59	0	25.70	17.80	17.70	17.90	0	18.00
		1	99	25.39	25.54	25.51	0	25.70	17.74	17.70	17.82	0	18.00
		50	0	24.44	24.61	24.64	1	24.70	17.78	17.80	17.91	0	18.00
		50	24	24.63	24.70	24.67	1	24.70	17.99	17.80	17.95	0	18.00
		50	50	24.49	24.47	24.42	1	24.70	17.83	17.80	17.90	0	18.00
		100	0	24.57	24.56	24.67	1	24.70	17.89	17.93	17.96	0	18.00
	16QAM	1	0	24.65	24.54	24.58	1	24.70	17.91	17.82	17.96	0	18.00
		1	49	24.57	24.55	24.67	1	24.70	17.97	17.98	17.91	0	18.00
		1	99	24.42	24.48	24.51	1	24.70	17.80	17.91	17.86	0	18.00
		50	0	23.48	23.65	23.69	2	23.70	17.83	17.99	17.93	0	18.00
		50	24	23.67	23.66	23.42	2	23.70	17.75	17.95	18.00	0	18.00
		50	50	23.50	23.55	23.46	2	23.70	17.90	17.78	17.76	0	18.00
		100	0	23.59	23.64	23.68	2	23.70	17.85	17.89	17.99	0	18.00
	64QAM	1	0	23.67	23.55	23.61	2	23.70	17.95	17.91	17.92	0	18.00
		1	49	23.60	23.66	23.63	2	23.70	17.83	17.89	17.89	0	18.00
		1	99	23.46	23.54	23.59	2	23.70	17.73	17.89	17.90	0	18.00
		50	0	22.44	22.59	22.64	3	22.70	17.99	17.96	17.96	0	18.00
		50	24	22.64	22.53	22.69	3	22.70	17.91	17.96	18.00	0	18.00
		50	50	22.52	22.47	22.44	3	22.70	17.91	17.83	17.85	0	18.00
		100	0	22.62	22.50	22.66	3	22.70	17.89	17.88	17.99	0	18.00
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	25.55	25.45	25.56	0	25.70	17.98	17.94	17.92	0	18.00
		1	37	25.62	25.42	25.65	0	25.70	17.87	17.95	18.00	0	18.00
		1	74	25.43	25.37	25.45	0	25.70	17.79	17.80	17.73	0	18.00
		36	0	24.68	24.55	24.58	1	24.70	17.90	17.87	17.97	0	18.00
		36	20	24.63	24.61	24.43	1	24.70	17.92	17.90	18.00	0	18.00
		36	39	24.55	24.48	24.63	1	24.70	17.85	17.72	17.92	0	18.00
		75	0	24.61	24.57	24.45	1	24.70	17.84	17.82	17.99	0	18.00
	16QAM	1	0	24.49	24.52	24.56	1	24.70	17.95	17.99	17.84	0	18.00
		1	37	24.54	24.42	24.66	1	24.70	17.89	17.95	17.85	0	18.00
		1	74	24.65	24.58	24.46	1	24.70	17.93	17.98	17.91	0	18.00
		36	0	23.68	23.67	23.49	2	23.70	17.93	17.96	17.84	0	18.00
		36	20	23.67	23.41	23.51	2	23.70	17.94	17.86	17.89	0	18.00
		36	39	23.67	23.53	23.70	2	23.70	17.85	17.85	17.84	0	18.00
		75	0	23.66	23.61	23.45	2	23.70	17.90	17.92	17.88	0	18.00
	64QAM	1	0	23.37	23.32	23.51	2	23.70	17.90	17.86	17.86	0	18.00
		1	37	23.50	23.48	23.69	2	23.70	17.86	17.98	17.94	0	18.00
		1	74	23.61	23.65	23.52	2	23.70	17.94	17.85	17.87	0	18.00
		36	0	22.45	22.64	22.47	3	22.70	17.99	17.87	17.87	0	18.00
		36	20	22.43	22.44	22.52	3	22.70	18.00	17.92	17.90	0	18.00
		36	39	22.63	22.55	22.44	3	22.70	17.88	17.73	17.98	0	18.00
		75	0	22.67	22.58	22.47	3	22.70	17.99	17.82	17.88	0	18.00
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	25.60	25.54	25.64	0	25.70	17.91	17.98	17.85	0	18.00
		1	25	25.59	25.57	25.64	0	25.70	17.91	17.84	17.97	0	18.00
		1	49	25.57	25.41	25.55	0	25.70	17.90	17.82	17.93	0	18.00
		25	0	24.54	24.56	24.43	1	24.70	17.90	17.90	17.87	0	18.00
		25	12	24.59	24.61	24.66	1	24.70	17.93	17.95	17.97	0	18.00
		25	25	24.64	24.48	24.60	1	24.70	17.91	17.82	17.93	0	18.00
		50	0	24.64	24.57	24.68	1	24.70	17.90	17.90	17.97	0	18.00
	16QAM	1	0	24.60	24.54	24.69	1	24.70	17.98	17.87	17.80	0	18.00
		1	25	24.60	24.53	24.63	1	24.70	17.94	17.89	17.91	0	18.00
		1	49	24.56	24.45	24.54	1	24.70	17.99	17.89	17.86	0	18.00
		25	0	23.68	23.63	23.54	2	23.70	17.85	17.99	17.84	0	18.00
		25	12	23.69	23.70	23.43	2	23.70	17.86	17.86	17.86	0	18.00
		25	25	23.41	23.59	23.68	2	23.70	17.86	17.89	18.00	0	18.00
		50	0	23.66	23.65	23.42	2	23.70	17.86	17.97	17.86	0	18.00
	64QAM	1	0	23.48	23.67	23.49	2	23.70	17.99	17.87	17.84	0	18.00
		1	25	23.68	23.43	23.48	2	23.70	17.85	17.90	18.00	0	18.00
		1	49	23.70	23.59	23.42	2	23.70	17.89	17.81	17.99	0	18.00
		25	0	22.68	22.64	22.48	3	22.70	17.89	17.91	17.96	0	18.00
		25	12	22.70	22.68	22.68	3	22.70	17.92	17.95	17.87	0	18.00
		25	25	22.70	22.60	22.64	3	22.70	17.98	17.81	17.98	0	18.00
		50	0	22.41	22.66	22.70	3	22.70	17.95	17.90	17.88	0	18.00

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	25.51	25.44	25.57	0	25.70	17.97	17.71	17.97	0	18.00
		1	12	25.49	25.45	25.47	0	25.70	17.90	17.71	17.84	0	18.00
		1	24	25.60	25.35	25.54	0	25.70	17.86	17.66	17.86	0	18.00
		12	0	24.48	24.49	24.51	1	24.70	17.88	17.77	17.91	0	18.00
		12	7	24.47	24.48	24.43	1	24.70	17.82	17.79	17.83	0	18.00
		12	13	24.53	24.41	24.44	1	24.70	17.90	17.69	17.83	0	18.00
	16QAM	25	0	24.49	24.47	24.49	1	24.70	17.85	17.72	17.87	0	18.00
		1	0	24.60	24.56	24.65	1	24.70	17.97	17.91	17.87	0	18.00
		1	12	24.56	24.53	24.55	1	24.70	17.89	17.95	17.93	0	18.00
		1	24	24.67	24.43	24.55	1	24.70	17.97	17.86	17.91	0	18.00
		12	0	23.50	23.50	23.53	2	23.70	17.85	17.80	17.89	0	18.00
		12	7	23.47	23.49	23.46	2	23.70	17.87	17.80	17.82	0	18.00
	64QAM	12	13	23.50	23.43	23.44	2	23.70	17.95	17.72	17.82	0	18.00
		25	0	23.51	23.46	23.45	2	23.70	17.87	17.72	17.80	0	18.00
		1	0	23.46	23.68	23.49	2	23.70	17.99	17.87	18.00	0	18.00
		1	12	23.67	23.61	23.64	2	23.70	17.90	17.87	17.87	0	18.00
		1	24	23.44	23.60	23.68	2	23.70	17.93	17.83	17.85	0	18.00
		12	0	22.52	22.49	22.49	3	22.70	17.85	17.84	17.96	0	18.00
3 MHz	QPSK	12	7	22.47	22.49	22.46	3	22.70	17.77	17.81	17.87	0	18.00
		12	13	22.50	22.45	22.46	3	22.70	17.90	17.73	17.86	0	18.00
		25	0	22.44	22.43	22.45	3	22.70	17.84	17.71	17.73	0	18.00
	16QAM	1	0	25.52	25.54	25.54	0	25.70	17.66	17.66	17.62	0	18.00
		1	8	25.60	25.48	25.48	0	25.70	17.68	17.66	17.70	0	18.00
		1	14	25.55	25.43	25.43	0	25.70	17.63	17.55	17.60	0	18.00
		8	0	24.46	24.45	24.45	1	24.70	17.55	17.58	17.55	0	18.00
		8	4	24.44	24.43	24.43	1	24.70	17.52	17.57	17.55	0	18.00
		8	7	24.44	24.37	24.37	1	24.70	17.53	17.51	17.57	0	18.00
	64QAM	15	0	24.44	24.39	24.39	1	24.70	17.55	17.54	17.56	0	18.00
		1	0	24.69	24.59	24.59	1	24.70	17.83	17.99	17.92	0	18.00
		1	8	24.67	24.59	24.59	1	24.70	17.92	17.86	17.98	0	18.00
		1	14	24.64	24.66	24.66	1	24.70	17.84	17.75	17.82	0	18.00
		8	0	23.46	23.43	23.43	2	23.70	17.56	17.57	17.50	0	18.00
		8	4	23.43	23.42	23.42	2	23.70	17.53	17.58	17.51	0	18.00
1.4 MHz	QPSK	8	7	23.45	23.38	23.38	2	23.70	17.55	17.51	17.51	0	18.00
		15	0	23.39	23.37	23.37	2	23.70	17.51	17.48	17.51	0	18.00
		1	0	23.41	23.40	23.35	2	23.70	17.69	17.83	17.66	0	18.00
		1	8	23.47	23.43	23.36	2	23.70	17.78	17.73	17.71	0	18.00
		1	14	23.31	23.41	23.36	2	23.70	17.66	17.68	17.60	0	18.00
		8	0	22.13	22.12	22.09	3	22.70	17.45	17.54	17.44	0	18.00
	16QAM	8	4	22.12	22.12	22.07	3	22.70	17.43	17.56	17.42	0	18.00
		8	7	22.10	22.06	22.07	3	22.70	17.44	17.49	17.43	0	18.00
		15	0	22.10	22.04	22.01	3	22.70	17.44	17.47	17.38	0	18.00
		1	0	24.45	24.63	24.57	1	24.70	17.95	17.96	17.94	0	18.00
		1	3	24.46	24.59	24.50	1	24.70	17.87	17.87	17.93	0	18.00
		1	5	24.49	24.55	24.54	1	24.70	17.89	17.85	17.96	0	18.00
	64QAM	3	0	24.51	24.56	24.60	1	24.70	17.64	17.70	17.67	0	18.00
		3	1	24.47	24.56	24.58	1	24.70	17.63	17.72	17.62	0	18.00
		3	3	24.50	24.53	24.57	1	24.70	17.67	17.68	17.64	0	18.00
		6	0	23.43	23.35	23.51	2	23.70	17.60	17.56	17.49	0	18.00
		1	0	23.31	23.56	23.42	2	23.70	17.94	17.75	17.76	0	18.00
		1	3	23.32	23.61	23.34	2	23.70	17.85	17.67	17.69	0	18.00
1.4 MHz	QPSK	1	5	25.48	25.51	25.59	0	25.70	17.71	17.68	17.67	0	18.00
		3	0	25.40	25.45	25.37	0	25.70	17.63	17.67	17.58	0	18.00
		3	1	25.41	25.46	25.38	0	25.70	17.62	17.68	17.56	0	18.00
		3	3	25.43	25.41	25.38	0	25.70	17.57	17.61	17.55	0	18.00
		6	0	24.38	24.41	24.31	1	24.70	17.50	17.55	17.54	0	18.00
		1	0	24.45	24.63	24.57	1	24.70	17.95	17.96	17.94	0	18.00
	16QAM	1	3	24.46	24.59	24.50	1	24.70	17.87	17.87	17.93	0	18.00
		1	5	24.49	24.55	24.54	1	24.70	17.89	17.85	17.96	0	18.00
		3	0	24.51	24.56	24.60	1	24.70	17.64	17.70	17.67	0	18.00
		3	1	24.47	24.56	24.58	1	24.70	17.63	17.72	17.62	0	18.00
		3	3	24.50	24.53	24.57	1	24.70	17.67	17.68	17.64	0	18.00
		6	0	23.43	23.35	23.51	2	23.70	17.60	17.56	17.49	0	18.00
1.4 MHz	64QAM	1	0	23.31	23.56	23.42	2	23.70	17.94	17.75	17.76	0	18.00
		1	3	23.32	23.61	23.34	2	23.70	17.85	17.67	17.69	0	18.00
		1	5	23.42	23.51	23.37	2	23.70	17.87	17.66	17.73	0	18.00
		3	0	23.24	23.34	23.12	2	23.70	17.65	17.55	17.56	0	18.00
		3	1	23.22	23.34	23.12	2	23.70	17.65	17.52	17.56	0	18.00
		3	3	23.16	23.25	23.06	2	23.70	17.66	17.42	17.53	0	18.00
	16QAM	6	0	22.12	22.09	22.12	3	22.70	17.49	17.46	17.48	0	18.00
		1	0	25.44	25.50	25.57	0	25.70	17.73	17.74	17.69	0	18.00
		1	3	25.47	25.52	25.56	0	25.70	17.71	17.72	17.65	0	18.00
		1	5	25.48	25.51	25.59	0	25.70	17.71	17.68	17.67	0	18.00
		3	0	25.40	25.45	25.37	0	25.70	17.63	17.67	17.58	0	18.00
		3	1	25.41	25.46	25.38	0	25.70	17.62	17.68	17.56	0	18.00

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	21.80	21.96	21.85	0	22.00	19.70	19.50	19.82	0	20.00
		1	49	22.00	22.00	22.00	0	22.00	19.70	19.50	19.90	0	20.00
		1	99	21.86	21.94	21.90	0	22.00	19.70	19.50	19.65	0	20.00
		50	0	21.65	21.52	21.64	0	22.00	19.70	19.70	19.88	0	20.00
		50	24	22.00	22.00	22.00	0	22.00	19.80	19.70	19.90	0	20.00
		50	50	21.33	21.45	21.64	0	22.00	19.59	19.69	19.88	0	20.00
		100	0	22.00	22.00	22.00	0	22.00	19.80	19.70	19.90	0	20.00
	16QAM	1	0	21.84	21.84	21.89	0	22.00	19.95	19.91	19.84	0	20.00
		1	49	21.81	21.93	21.81	0	22.00	19.76	19.84	19.98	0	20.00
		1	99	21.64	21.90	21.71	0	22.00	19.97	19.79	19.97	0	20.00
		50	0	20.70	20.55	20.66	0.5	21.50	19.90	19.82	19.94	0	20.00
		50	24	20.56	20.53	20.72	0.5	21.50	19.78	19.77	19.99	0	20.00
		50	50	20.51	20.59	20.68	0.5	21.50	19.63	19.74	19.92	0	20.00
		100	0	20.53	20.55	20.68	0.5	21.50	19.77	19.75	19.94	0	20.00
	64QAM	1	0	21.03	20.70	20.84	0.5	21.50	19.94	19.94	19.85	0	20.00
		1	49	20.77	20.90	20.77	0.5	21.50	19.82	19.90	19.81	0	20.00
		1	99	20.64	20.90	20.73	0.5	21.50	19.96	19.95	19.98	0	20.00
		50	0	19.85	19.59	19.64	1.5	20.50	19.13	19.19	19.11	0	20.00
		50	24	19.78	19.59	19.56	1.5	20.50	19.16	19.03	19.10	0	20.00
		50	50	19.54	19.55	19.63	1.5	20.50	19.11	19.02	19.15	0	20.00
		100	0	19.60	19.58	19.54	1.5	20.50	19.17	19.02	19.07	0	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	21.96	21.94	21.88	0	22.00	19.91	19.67	19.87	0	20.00
		1	37	21.90	21.94	21.94	0	22.00	19.79	19.66	19.92	0	20.00
		1	74	21.75	21.83	21.87	0	22.00	19.50	19.54	19.66	0	20.00
		36	0	21.66	21.51	21.71	0	22.00	19.89	19.69	19.93	0	20.00
		36	20	21.63	21.45	21.69	0	22.00	19.88	19.70	19.92	0	20.00
		36	39	21.50	21.40	21.60	0	22.00	19.76	19.65	19.85	0	20.00
		75	0	21.57	21.42	21.65	0	22.00	19.83	19.66	19.89	0	20.00
	16QAM	1	0	21.92	21.69	21.94	0	22.00	19.87	19.74	19.95	0	20.00
		1	37	21.88	21.71	22.00	0	22.00	19.98	19.97	19.93	0	20.00
		1	74	21.47	21.60	21.77	0	22.00	19.78	19.84	19.96	0	20.00
		36	0	20.64	20.58	20.77	0.5	21.50	19.92	19.75	19.71	0	20.00
		36	20	20.61	20.58	20.70	0.5	21.50	19.89	19.74	19.98	0	20.00
		36	39	20.54	20.53	20.63	0.5	21.50	19.78	19.70	19.91	0	20.00
		75	0	20.63	20.51	20.66	0.5	21.50	19.85	19.69	19.93	0	20.00
	64QAM	1	0	21.22	20.91	20.93	0.5	21.50	19.22	19.12	19.10	0	20.00
		1	37	21.05	20.98	20.88	0.5	21.50	19.14	19.15	19.10	0	20.00
		1	74	20.85	20.91	20.65	0.5	21.50	19.15	19.11	19.86	0	20.00
		36	0	19.82	19.81	19.69	1.5	20.50	19.12	19.15	19.06	0	20.00
		36	20	19.83	19.84	19.84	1.5	20.50	19.16	19.23	19.15	0	20.00
		36	39	19.85	19.90	19.73	1.5	20.50	19.17	19.21	19.09	0	20.00
		75	0	19.84	19.79	19.76	1.5	20.50	19.14	19.17	19.09	0	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	21.83	21.83	21.85	0	22.00	19.96	19.79	19.99	0	20.00
		1	25	21.94	21.96	21.95	0	22.00	19.83	19.76	19.88	0	20.00
		1	49	21.87	21.92	21.97	0	22.00	19.75	19.69	19.67	0	20.00
		25	0	21.71	21.47	21.71	0	22.00	19.92	19.76	19.90	0	20.00
		25	12	21.62	21.46	21.65	0	22.00	19.84	19.75	19.82	0	20.00
		25	25	21.60	21.44	21.56	0	22.00	19.82	19.77	19.74	0	20.00
		50	0	21.61	21.46	21.63	0	22.00	19.82	19.78	19.79	0	20.00
	16QAM	1	0	21.96	21.84	21.92	0	22.00	19.90	19.77	19.74	0	20.00
		1	25	21.87	21.80	21.96	0	22.00	19.79	19.75	19.90	0	20.00
		1	49	21.74	21.74	21.80	0	22.00	19.99	19.94	19.98	0	20.00
		25	0	20.83	20.58	20.75	0.5	21.50	19.96	19.82	19.94	0	20.00
		25	12	20.75	20.57	20.69	0.5	21.50	19.86	19.79	19.87	0	20.00
		25	25	20.71	20.51	20.61	0.5	21.50	19.84	19.78	19.78	0	20.00
		50	0	20.72	20.50	20.67	0.5	21.50	19.86	19.76	19.86	0	20.00
	64QAM	1	0	21.08	20.97	20.90	0.5	21.50	19.18	19.16	19.13	0	20.00
		1	25	20.89	21.00	20.94	0.5	21.50	19.03	19.19	19.03	0	20.00
		1	49	20.89	21.00	20.78	0.5	21.50	19.11	19.22	19.98	0	20.00
		25	0	19.87	19.81	19.83	1.5	20.50	19.22	19.18	19.17	0	20.00
		25	12	19.83	19.85	19.70	1.5	20.50	19.18	19.22	19.09	0	20.00
		25	25	19.84	19.86	19.62	1.5	20.50	19.20	19.24	19.04	0	20.00
		50	0	19.82	19.81	19.69	1.5	20.50	19.17	19.20	19.09	0	20.00

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	21.97	21.93	21.90	0	22.00	19.91	19.64	19.87	0	20.00
		1	12	21.90	21.96	21.84	0	22.00	19.83	19.64	19.78	0	20.00
		1	24	21.82	21.92	21.99	0	22.00	19.75	19.63	19.70	0	20.00
		12	0	21.55	21.43	21.57	0	22.00	19.81	19.59	19.80	0	20.00
		12	7	21.54	21.42	21.51	0	22.00	19.80	19.59	19.72	0	20.00
		12	13	21.46	21.41	21.51	0	22.00	19.74	19.58	19.72	0	20.00
	16QAM	25	0	21.56	21.42	21.49	0	22.00	19.79	19.60	19.72	0	20.00
		1	0	21.88	21.73	21.84	0	22.00	19.98	19.86	19.71	0	20.00
		1	12	21.95	21.73	21.97	0	22.00	19.91	19.85	19.87	0	20.00
		1	24	21.89	21.73	21.89	0	22.00	19.86	19.89	19.81	0	20.00
		12	0	20.61	20.53	20.58	0.5	21.50	19.81	19.58	19.83	0	20.00
		12	7	20.61	20.52	20.55	0.5	21.50	19.81	19.60	19.73	0	20.00
	64QAM	12	13	20.51	20.53	20.53	0.5	21.50	19.72	19.59	19.76	0	20.00
		25	0	20.58	20.58	20.59	0.5	21.50	19.79	19.57	19.71	0	20.00
		1	0	21.16	20.99	21.01	0.5	21.50	19.28	19.05	19.10	0	20.00
		1	12	21.01	20.96	20.90	0.5	21.50	19.19	19.12	19.99	0	20.00
		1	24	21.03	20.97	20.96	0.5	21.50	19.09	19.15	19.10	0	20.00
		12	0	19.85	19.68	19.59	1.5	20.50	19.15	19.20	19.11	0	20.00
3 MHz	QPSK	12	7	19.77	19.62	19.60	1.5	20.50	19.09	19.15	19.05	0	20.00
		12	13	19.70	19.64	19.60	1.5	20.50	19.04	19.16	19.03	0	20.00
		25	0	19.74	19.66	19.58	1.5	20.50	19.03	19.19	19.03	0	20.00
	16QAM	1	0	21.90	21.88	21.85	0	22.00	19.78	19.52	19.60	0	20.00
		1	8	21.88	21.86	21.92	0	22.00	19.75	19.58	19.63	0	20.00
		1	14	21.83	21.80	21.83	0	22.00	19.68	19.53	19.51	0	20.00
		8	0	21.41	21.25	21.31	0	22.00	19.59	19.46	19.53	0	20.00
		8	4	21.42	21.21	21.30	0	22.00	19.60	19.46	19.51	0	20.00
		8	7	21.44	21.21	21.23	0	22.00	19.60	19.45	19.44	0	20.00
	64QAM	15	0	21.44	21.24	21.27	0	22.00	19.59	19.48	19.49	0	20.00
		1	0	21.76	21.60	21.73	0	22.00	19.99	19.79	19.92	0	20.00
		1	8	21.77	21.60	21.77	0	22.00	19.92	19.89	19.88	0	20.00
		1	14	21.80	21.59	21.58	0	22.00	19.83	19.86	19.78	0	20.00
		8	0	20.77	20.61	20.59	0.5	21.50	19.62	19.46	19.49	0	20.00
		8	4	20.74	20.57	20.58	0.5	21.50	19.62	19.46	19.48	0	20.00
1.4 MHz	QPSK	8	7	20.75	20.54	20.52	0.5	21.50	19.61	19.45	19.42	0	20.00
		15	0	20.71	20.54	20.57	0.5	21.50	19.56	19.43	19.47	0	20.00
	16QAM	1	0	21.02	20.92	20.58	0.5	21.50	19.18	19.89	19.73	0	20.00
		1	8	20.97	20.96	20.70	0.5	21.50	19.05	19.07	19.73	0	20.00
		1	14	20.88	20.86	20.64	0.5	21.50	19.89	19.94	19.77	0	20.00
		8	0	19.61	19.64	19.63	1.5	20.50	19.13	19.06	19.06	0	20.00
	64QAM	8	4	19.62	19.61	19.62	1.5	20.50	19.13	19.08	19.06	0	20.00
		8	7	19.59	19.62	19.60	1.5	20.50	19.15	19.08	19.06	0	20.00
		15	0	19.61	19.58	19.54	1.5	20.50	19.12	19.04	19.00	0	20.00
	QPSK	1	0	21.90	21.93	21.82	0	22.00	19.78	19.66	19.57	0	20.00
		1	3	21.81	21.91	21.80	0	22.00	19.74	19.64	19.55	0	20.00
		1	5	21.85	21.93	21.84	0	22.00	19.78	19.67	19.54	0	20.00
		3	0	21.95	21.79	21.76	0	22.00	19.72	19.56	19.42	0	20.00
		3	1	21.91	21.79	21.75	0	22.00	19.69	19.55	19.40	0	20.00
		3	3	21.92	21.78	21.75	0	22.00	19.68	19.55	19.41	0	20.00
	16QAM	6	0	21.41	21.22	21.21	0	22.00	19.63	19.53	19.34	0	20.00
		1	0	21.95	21.67	21.59	0	22.00	19.94	19.96	19.84	0	20.00
		1	3	21.82	21.65	21.58	0	22.00	19.95	19.86	19.75	0	20.00
		1	5	21.88	21.64	21.60	0	22.00	19.97	19.91	19.80	0	20.00
		3	0	21.63	21.38	21.33	0	22.00	19.78	19.59	19.53	0	20.00
		3	1	21.53	21.41	21.31	0	22.00	19.74	19.57	19.52	0	20.00
	64QAM	3	3	21.53	21.43	21.32	0	22.00	19.76	19.57	19.53	0	20.00
		6	0	20.72	20.66	20.59	0.5	21.50	19.61	19.41	19.49	0	20.00
		1	0	21.08	21.12	20.70	0.5	21.50	19.19	19.90	19.99	0	20.00
		1	3	20.87	21.10	20.61	0.5	21.50	19.20	19.91	19.99	0	20.00
		1	5	20.98	21.15	20.75	0.5	21.50	19.13	19.15	19.17	0	20.00
		3	0	20.83	20.77	20.70	0.5	21.50	19.95	19.81	19.69	0	20.00
	64QAM	3	1	20.80	20.80	20.69	0.5	21.50	19.87	19.85	19.71	0	20.00
		3	3	20.79	20.79	20.69	0.5	21.50	19.88	19.86	19.67	0	20.00
		6	0	19.71	19.63	19.66	1.5	20.50	19.07	19.15	19.11	0	20.00

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	24.45	24.41	24.25	0	25.00	21.60	21.60	21.50	0	21.75
		1	49	24.73	24.65	24.50	0	25.00	21.62	21.66	21.51	0	21.75
		1	99	24.16	24.29	24.29	0	25.00	21.41	21.50	21.50	0	21.75
		50	0	23.63	23.64	23.64	1	24.00	21.67	21.62	21.70	0	21.75
		50	24	23.67	23.76	23.88	1	24.00	21.70	21.66	21.70	0	21.75
		50	50	23.64	23.65	23.58	1	24.00	21.65	21.66	21.64	0	21.75
		100	0	23.64	23.80	23.87	1	24.00	21.54	21.73	21.54	0	21.75
	16QAM	1	0	23.89	23.90	23.81	1	24.00	21.17	21.16	21.49	0	21.75
		1	49	23.90	23.82	23.82	1	24.00	21.53	21.08	21.63	0	21.75
		1	99	23.71	23.96	23.83	1	24.00	21.73	21.49	21.64	0	21.75
		50	0	22.69	22.67	22.74	2	23.00	21.69	21.72	21.46	0	21.75
		50	24	22.57	22.68	22.73	2	23.00	21.63	21.28	21.45	0	21.75
		50	50	22.64	22.67	22.65	2	23.00	21.70	21.73	21.71	0	21.75
		100	0	22.53	22.65	22.66	2	23.00	21.59	21.70	21.70	0	21.75
	64QAM	1	0	22.80	22.84	22.96	2	23.00	21.64	21.34	21.47	0	21.75
		1	49	22.72	22.95	23.00	2	23.00	21.57	21.47	21.50	0	21.75
		1	99	22.63	22.93	22.93	2	23.00	21.71	21.42	21.42	0	21.75
		50	0	21.72	21.81	21.96	3	22.00	21.39	21.09	21.22	0	21.75
		50	24	21.72	21.86	21.90	3	22.00	21.44	21.14	21.18	0	21.75
		50	50	21.80	21.87	21.78	3	22.00	21.45	21.15	21.06	0	21.75
		100	0	21.68	21.88	21.88	3	22.00	21.45	21.15	21.11	0	21.75
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	24.41	24.34	24.36	0	25.00	21.71	21.54	21.67	0	21.75
		1	37	24.36	24.40	24.40	0	25.00	21.70	21.63	21.67	0	21.75
		1	74	24.31	24.28	24.23	0	25.00	21.65	21.53	21.57	0	21.75
		36	0	23.71	23.62	23.65	1	24.00	21.74	21.60	21.69	0	21.75
		36	20	23.64	23.63	23.62	1	24.00	21.70	21.62	21.68	0	21.75
		36	39	23.54	23.71	23.58	1	24.00	21.65	21.71	21.64	0	21.75
		75	0	23.60	23.62	23.59	1	24.00	21.67	21.61	21.65	0	21.75
	16QAM	1	0	23.98	23.90	23.93	1	24.00	21.49	21.32	21.43	0	21.75
		1	37	23.89	23.99	23.97	1	24.00	21.43	21.40	21.43	0	21.75
		1	74	23.86	23.87	23.84	1	24.00	21.31	21.34	21.28	0	21.75
		36	0	22.77	22.66	22.70	2	23.00	21.18	21.62	21.74	0	21.75
		36	20	22.67	22.69	22.66	2	23.00	21.74	21.63	21.71	0	21.75
		36	39	22.61	22.83	22.59	2	23.00	21.62	21.73	21.67	0	21.75
		75	0	22.64	22.72	22.59	2	23.00	21.68	21.65	21.68	0	21.75
	64QAM	1	0	22.96	22.95	22.96	2	23.00	21.42	21.51	21.71	0	21.75
		1	37	22.96	22.86	22.97	2	23.00	21.37	21.53	21.47	0	21.75
		1	74	22.97	22.83	22.82	2	23.00	21.47	21.54	21.45	0	21.75
		36	0	21.74	21.85	21.84	3	22.00	21.17	21.39	21.53	0	21.75
		36	20	21.74	21.94	21.83	3	22.00	21.20	21.47	21.29	0	21.75
		36	39	21.72	21.90	21.80	3	22.00	21.20	21.42	21.31	0	21.75
		75	0	21.70	21.86	21.79	3	22.00	21.16	21.35	21.26	0	21.75
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	24.41	24.23	24.34	0	25.00	21.73	21.61	21.73	0	21.75
		1	25	24.38	24.21	24.33	0	25.00	21.69	21.61	21.72	0	21.75
		1	49	24.20	24.24	24.26	0	25.00	21.56	21.62	21.60	0	21.75
		25	0	23.67	23.50	23.61	1	24.00	21.17	21.58	21.68	0	21.75
		25	12	23.60	23.49	23.59	1	24.00	21.68	21.58	21.66	0	21.75
		25	25	23.55	23.61	23.51	1	24.00	21.62	21.72	21.60	0	21.75
		50	0	23.61	23.58	23.59	1	24.00	21.67	21.65	21.69	0	21.75
	16QAM	1	0	23.94	23.83	23.98	1	24.00	21.43	21.37	21.51	0	21.75
		1	25	23.88	23.82	23.95	1	24.00	21.34	21.35	21.53	0	21.75
		1	49	23.69	23.90	23.85	1	24.00	21.23	21.38	21.39	0	21.75
		25	0	22.75	22.54	22.66	2	23.00	21.24	21.67	21.18	0	21.75
		25	12	22.70	22.52	22.59	2	23.00	21.72	21.65	21.17	0	21.75
		25	25	22.62	22.66	22.48	2	23.00	21.64	21.19	21.72	0	21.75
		50	0	22.67	22.55	22.55	2	23.00	21.69	21.70	21.16	0	21.75
	64QAM	1	0	22.93	22.85	22.90	2	23.00	21.30	21.48	21.59	0	21.75
		1	25	22.91	22.94	22.91	2	23.00	21.29	21.49	21.39	0	21.75
		1	49	22.91	22.87	22.81	2	23.00	21.25	21.57	21.48	0	21.75
		25	0	21.90	21.93	21.81	3	22.00	21.21	21.28	21.28	0	21.75
		25	12	21.81	21.99	21.79	3	22.00	21.73	21.32	21.24	0	21.75
		25	25	21.83	22.00	21.87	3	22.00	21.74	21.34	21.28	0	21.75
		50	0	21.82	21.98	21.81	3	22.00	21.74	21.32	21.25	0	21.75

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	24.28	24.15	24.23	0	25.00	21.69	21.56	21.63	0	21.75
		1	12	24.25	24.22	24.17	0	25.00	21.66	21.60	21.56	0	21.75
		1	24	24.19	24.32	24.19	0	25.00	21.57	21.69	21.57	0	21.75
		12	0	23.47	23.40	23.47	1	24.00	21.59	21.48	21.56	0	21.75
		12	7	23.46	23.39	23.40	1	24.00	21.60	21.47	21.50	0	21.75
		12	13	23.40	23.44	23.42	1	24.00	21.51	21.52	21.49	0	21.75
	16QAM	25	0	23.46	23.45	23.42	1	24.00	21.58	21.53	21.49	0	21.75
		1	0	23.90	23.75	23.93	1	24.00	21.54	21.38	21.57	0	21.75
		1	12	23.90	23.76	23.87	1	24.00	21.56	21.37	21.48	0	21.75
		1	24	23.84	23.86	23.91	1	24.00	21.47	21.47	21.55	0	21.75
		12	0	22.50	22.41	22.55	2	23.00	21.63	21.51	21.60	0	21.75
		12	7	22.49	22.37	22.45	2	23.00	21.62	21.50	21.54	0	21.75
	64QAM	12	13	22.43	22.46	22.45	2	23.00	21.53	21.55	21.54	0	21.75
		25	0	22.52	22.40	22.40	2	23.00	21.60	21.52	21.50	0	21.75
		1	0	22.93	22.81	22.85	2	23.00	21.45	21.57	21.63	0	21.75
		1	12	22.94	22.83	22.90	2	23.00	21.44	21.55	21.63	0	21.75
		1	24	22.88	22.85	22.96	2	23.00	21.43	21.59	21.64	0	21.75
		12	0	21.64	21.72	21.66	3	22.00	21.68	21.73	21.66	0	21.75
3 MHz	QPSK	12	7	21.61	21.71	21.71	3	22.00	21.65	21.72	21.72	0	21.75
		12	13	21.57	21.68	21.72	3	22.00	21.61	21.72	21.72	0	21.75
		25	0	21.60	21.71	21.70	3	22.00	21.63	21.72	21.71	0	21.75
	16QAM	1	0	24.23	24.11	24.13	0	25.00	21.64	21.45	21.41	0	21.75
		1	8	24.25	24.28	24.18	0	25.00	21.72	21.57	21.47	0	21.75
		1	14	24.25	24.24	24.06	0	25.00	21.63	21.53	21.41	0	21.75
		8	0	23.40	23.31	23.26	1	24.00	21.50	21.38	21.32	0	21.75
		8	4	23.39	23.32	23.19	1	24.00	21.51	21.36	21.31	0	21.75
		8	7	23.40	23.38	23.22	1	24.00	21.51	21.41	21.32	0	21.75
	64QAM	15	0	23.35	23.39	23.19	1	24.00	21.51	21.43	21.31	0	21.75
		1	0	23.72	23.73	23.61	1	24.00	21.43	21.69	21.70	0	21.75
		1	8	23.77	23.81	23.64	1	24.00	21.44	21.36	21.29	0	21.75
		1	14	23.85	23.85	23.60	1	24.00	21.46	21.31	21.73	0	21.75
		8	0	22.44	22.31	22.17	2	23.00	21.54	21.34	21.31	0	21.75
		8	4	22.42	22.29	22.23	2	23.00	21.55	21.34	21.31	0	21.75
1.4 MHz	QPSK	8	7	22.44	22.33	22.24	2	23.00	21.55	21.42	21.29	0	21.75
		15	0	22.40	22.30	22.24	2	23.00	21.51	21.39	21.28	0	21.75
	16QAM	1	0	22.74	22.92	22.85	2	23.00	21.34	21.49	21.33	0	21.75
		1	8	22.77	22.93	22.89	2	23.00	21.29	21.49	21.47	0	21.75
		1	14	22.75	22.94	22.84	2	23.00	21.30	21.40	21.38	0	21.75
		8	0	21.42	21.64	21.56	3	22.00	21.51	21.62	21.61	0	21.75
	64QAM	8	4	21.42	21.62	21.55	3	22.00	21.52	21.61	21.61	0	21.75
		8	7	21.43	21.64	21.56	3	22.00	21.52	21.60	21.61	0	21.75
		15	0	21.41	21.58	21.49	3	22.00	21.46	21.60	21.53	0	21.75
	QPSK	1	0	24.25	24.15	24.23	0	25.00	21.58	21.57	21.57	0	21.75
		1	3	24.19	24.17	24.13	0	25.00	21.58	21.55	21.53	0	21.75
		1	5	24.28	24.25	24.18	0	25.00	21.59	21.65	21.54	0	21.75
		3	0	24.11	24.12	24.05	0	25.00	21.51	21.44	21.40	0	21.75
		3	1	24.11	24.12	24.05	0	25.00	21.51	21.44	21.39	0	21.75
		3	3	24.13	24.17	24.05	0	25.00	21.52	21.52	21.40	0	21.75
	16QAM	6	0	23.32	23.39	23.30	1	24.00	21.47	21.51	21.32	0	21.75
		1	0	23.77	23.65	23.80	1	24.00	21.32	21.39	21.29	0	21.75
		1	3	23.81	23.62	23.75	1	24.00	21.33	21.31	21.28	0	21.75
		1	5	23.77	23.74	23.77	1	24.00	21.35	21.48	21.34	0	21.75
		3	0	23.50	23.43	23.45	1	24.00	21.64	21.50	21.56	0	21.75
		3	1	23.49	23.39	23.43	1	24.00	21.59	21.51	21.54	0	21.75
	64QAM	3	3	23.48	23.48	23.44	1	24.00	21.59	21.55	21.54	0	21.75
		6	0	22.40	22.39	22.28	2	23.00	21.52	21.40	21.46	0	21.75
		1	0	23.00	22.94	22.86	2	23.00	21.40	21.67	21.43	0	21.75
		1	3	22.92	22.87	22.78	2	23.00	21.38	21.62	21.49	0	21.75
		1	5	22.90	22.87	22.87	2	23.00	21.34	21.64	21.50	0	21.75
		3	0	22.69	22.69	22.70	2	23.00	21.68	21.36	21.73	0	21.75
	64QAM	3	1	22.62	22.66	22.66	2	23.00	21.62	21.36	21.74	0	21.75
		3	3	22.58	22.67	22.67	2	23.00	21.63	21.37	21.73	0	21.75
		6	0	21.44	21.65	21.62	3	22.00	21.55	21.72	21.66	0	21.75

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	20.80	20.70	20.85	0	21.00	21.98	21.80	21.90	0	22.25
		1	49	20.80	20.80	20.95	0	21.00	22.00	21.90	21.95	0	22.25
		1	99	20.80	20.60	20.95	0	21.00	21.87	21.90	21.80	0	22.25
		50	0	20.60	20.40	20.80	0	21.00	21.40	21.40	21.70	0.25	22.00
		50	24	20.70	20.50	20.80	0	21.00	21.50	21.50	21.70	0.25	22.00
		50	50	20.70	20.50	20.80	0	21.00	21.30	21.50	21.60	0.25	22.00
		100	0	20.70	20.80	20.80	0	21.00	21.25	21.50	21.70	0.25	22.00
	16QAM	1	0	20.77	20.93	20.92	0	21.00	21.04	21.17	21.15	0.25	22.00
		1	49	20.86	20.89	20.96	0	21.00	21.15	21.11	21.23	0.25	22.00
		1	99	20.82	20.98	20.97	0	21.00	21.10	21.23	21.01	0.25	22.00
		50	0	20.14	20.19	20.19	0	21.00	20.29	20.34	20.22	1.25	21.00
		50	24	20.12	20.13	20.20	0	21.00	20.27	20.28	20.23	1.25	21.00
		50	50	20.16	20.14	20.14	0	21.00	20.31	20.29	20.18	1.25	21.00
		100	0	20.17	20.11	20.18	0	21.00	20.32	20.26	20.22	1.25	21.00
	64QAM	1	0	20.08	20.21	20.18	0	21.00	20.23	20.36	20.19	1.25	21.00
		1	49	20.13	20.10	20.22	0	21.00	20.28	20.25	20.01	1.25	21.00
		1	99	20.10	20.19	20.09	0	21.00	20.25	20.34	20.08	1.25	21.00
		50	0	19.16	19.20	19.21	1	20.00	19.25	19.23	19.25	2.25	20.00
		50	24	19.15	19.14	19.25	1	20.00	19.30	19.18	19.01	2.25	20.00
		50	50	19.13	19.13	19.19	1	20.00	19.22	19.11	19.23	2.25	20.00
		100	0	19.14	19.12	19.22	1	20.00	19.24	19.13	19.24	2.25	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	20.97	20.95	20.82	0	21.00	21.82	21.78	21.75	0	22.25
		1	37	20.86	20.82	20.99	0	21.00	21.62	21.67	21.82	0	22.25
		1	74	20.81	20.81	20.92	0	21.00	21.68	21.68	21.87	0	22.25
		36	0	20.40	20.45	20.82	0	21.00	21.11	21.20	21.22	0.25	22.00
		36	20	20.37	20.41	20.73	0	21.00	21.08	21.16	21.13	0.25	22.00
		36	39	20.39	20.41	20.69	0	21.00	21.12	21.15	21.12	0.25	22.00
		75	0	20.35	20.39	20.66	0	21.00	21.08	21.14	21.12	0.25	22.00
	16QAM	1	0	20.78	20.75	20.99	0	21.00	21.61	21.59	21.12	0.25	22.00
		1	37	20.59	20.68	20.95	0	21.00	21.42	21.52	21.11	0.25	22.00
		1	74	20.62	20.63	20.99	0	21.00	21.45	21.45	21.14	0.25	22.00
		36	0	20.15	20.23	20.25	0	21.00	20.37	20.48	20.51	1.25	21.00
		36	20	20.11	20.14	20.22	0	21.00	20.34	20.43	20.40	1.25	21.00
		36	39	20.15	20.12	20.20	0	21.00	20.35	20.41	20.40	1.25	21.00
		75	0	20.09	20.11	20.23	0	21.00	20.31	20.39	20.36	1.25	21.00
	64QAM	1	0	20.21	20.24	20.21	0	21.00	20.42	20.37	20.38	1.25	21.00
		1	37	20.11	20.20	20.24	0	21.00	20.19	20.17	20.40	1.25	21.00
		1	74	20.16	20.09	20.20	0	21.00	20.19	20.19	20.13	1.25	21.00
		36	0	19.14	19.21	19.24	1	20.00	19.23	19.23	19.25	2.25	20.00
		36	20	19.11	19.15	19.24	1	20.00	19.19	19.16	19.27	2.25	20.00
		36	39	19.13	19.15	19.24	1	20.00	19.21	19.18	19.21	2.25	20.00
		75	0	19.08	19.12	19.20	1	20.00	19.15	19.15	19.21	2.25	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	20.96	20.92	20.83	0	21.00	21.83	21.80	22.23	0	22.25
		1	25	20.82	20.78	20.96	0	21.00	21.71	21.71	22.17	0	22.25
		1	49	20.90	20.84	20.87	0	21.00	21.78	21.77	22.21	0	22.25
		25	0	20.41	20.38	20.70	0	21.00	21.20	21.19	21.14	0.25	22.00
		25	12	20.32	20.29	20.70	0	21.00	21.08	21.10	21.15	0.25	22.00
		25	25	20.32	20.31	20.76	0	21.00	21.06	21.12	21.23	0.25	22.00
		50	0	20.32	20.30	20.70	0	21.00	21.09	21.10	21.16	0.25	22.00
	16QAM	1	0	20.73	20.68	20.98	0	21.00	21.59	21.56	21.22	0.25	22.00
		1	25	20.59	20.59	20.89	0	21.00	21.46	21.47	21.11	0.25	22.00
		1	49	20.64	20.65	20.84	0	21.00	21.52	21.50	21.19	0.25	22.00
		25	0	20.22	20.19	20.23	0	21.00	20.45	20.46	20.46	1.25	21.00
		25	12	20.11	20.09	20.22	0	21.00	20.36	20.39	20.47	1.25	21.00
		25	25	20.10	20.11	20.07	0	21.00	20.35	20.41	20.51	1.25	21.00
		50	0	20.10	20.10	20.21	0	21.00	20.36	20.38	20.46	1.25	21.00
	64QAM	1	0	20.10	20.05	20.24	0	21.00	20.63	20.63	20.38	1.25	21.00
		1	25	20.16	20.22	20.17	0	21.00	20.47	20.50	20.56	1.25	21.00
		1	49	20.21	20.18	20.20	0	21.00	20.55	20.58	20.38	1.25	21.00
		25	0	19.14	19.15	19.22	1	20.00	19.39	19.39	19.23	2.25	20.00
		25	12	19.04	19.08	19.22	1	20.00	19.58	19.63	19.23	2.25	20.00
		25	25	19.05	19.08	19.20	1	20.00	19.57	19.63	19.31	2.25	20.00
		50	0	19.06	19.08	19.23	1	20.00	19.59	19.63	19.24	2.25	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	20.94	20.88	20.88	0	21.00	21.79	21.69	21.87	0	22.25
		1	12	20.80	20.76	20.91	0	21.00	21.68	21.60	21.80	0	22.25
		1	24	20.76	20.80	20.97	0	21.00	21.63	21.66	21.87	0	22.25
		12	0	20.28	20.44	20.57	0	21.00	21.10	21.02	21.06	0.25	22.00
		12	7	20.26	20.43	20.57	0	21.00	21.08	21.02	21.13	0.25	22.00
		12	13	20.95	20.43	20.58	0	21.00	21.01	21.03	21.09	0.25	22.00
	16QAM	25	0	20.26	20.43	20.59	0	21.00	21.07	21.02	21.08	0.25	22.00
		1	0	20.86	20.73	20.72	0	21.00	21.49	21.57	21.15	0.25	22.00
		1	12	20.76	20.66	20.75	0	21.00	21.55	21.50	21.20	0.25	22.00
		1	24	20.65	20.74	20.79	0	21.00	21.50	21.51	21.23	0.25	22.00
		12	0	20.27	20.20	20.06	0	21.00	20.27	20.21	20.24	1.25	21.00
		12	7	20.23	20.18	20.13	0	21.00	20.24	20.19	20.30	1.25	21.00
	64QAM	12	13	20.15	20.18	20.13	0	21.00	20.17	20.19	20.30	1.25	21.00
		25	0	20.23	20.18	20.14	0	21.00	20.25	20.19	20.30	1.25	21.00
		1	0	20.44	20.28	20.18	0	21.00	20.21	20.20	20.13	1.25	21.00
		1	12	20.27	20.17	20.23	0	21.00	20.14	20.04	20.15	1.25	21.00
		1	24	20.19	20.19	20.06	0	21.00	20.10	20.13	20.20	1.25	21.00
		12	0	19.04	19.20	19.09	1	20.00	19.12	19.10	19.09	2.25	20.00
3 MHz	QPSK	12	7	19.01	19.17	19.16	1	20.00	19.15	19.01	19.14	2.25	20.00
		12	13	19.16	19.18	19.17	1	20.00	19.04	19.10	19.14	2.25	20.00
		25	0	19.19	19.19	19.10	1	20.00	19.10	19.10	19.11	2.25	20.00
	16QAM	1	0	20.85	20.71	20.86	0	21.00	22.12	21.98	22.10	0	22.25
		1	8	20.84	20.76	20.91	0	21.00	22.07	21.96	22.19	0	22.25
		1	14	20.74	20.66	20.86	0	21.00	22.03	21.93	22.16	0	22.25
		8	0	20.69	20.58	20.98	0	21.00	21.10	21.39	21.12	0.25	22.00
		8	4	20.68	20.57	20.48	0	21.00	21.09	21.39	21.10	0.25	22.00
		8	7	20.67	20.59	20.49	0	21.00	21.10	21.40	21.12	0.25	22.00
	64QAM	15	0	20.68	20.58	20.50	0	21.00	21.10	21.40	21.13	0.25	22.00
		1	0	20.62	20.39	20.86	0	21.00	21.22	21.48	21.40	0.25	22.00
		1	8	20.59	20.46	20.82	0	21.00	21.16	21.11	21.46	0.25	22.00
		1	14	20.45	20.45	20.79	0	21.00	21.10	21.46	21.38	0.25	22.00
		8	0	20.13	20.03	20.21	0	21.00	20.22	20.14	20.19	1.25	21.00
		8	4	20.11	20.01	20.22	0	21.00	20.20	20.11	20.18	1.25	21.00
1.4 MHz	QPSK	8	7	20.10	20.04	20.19	0	21.00	20.58	20.47	20.13	1.25	21.00
		15	0	20.09	20.18	20.17	0	21.00	20.57	20.36	20.58	1.25	21.00
	16QAM	1	0	20.17	20.02	20.43	0	21.00	20.57	20.36	20.58	1.25	21.00
		1	8	20.21	20.15	20.19	0	21.00	20.19	20.10	20.10	1.25	21.00
		1	14	20.09	20.08	20.41	0	21.00	20.05	20.24	20.11	1.25	21.00
		8	0	19.20	19.10	19.15	1	20.00	19.27	19.14	19.35	2.25	20.00
	64QAM	8	4	19.19	19.10	19.14	1	20.00	19.28	19.12	19.34	2.25	20.00
		8	7	19.19	19.09	19.14	1	20.00	19.26	19.12	19.34	2.25	20.00
		15	0	19.19	19.09	19.14	1	20.00	19.26	19.12	19.35	2.25	20.00
	QPSK	1	0	20.94	20.91	20.47	0	21.00	22.19	21.98	22.21	0	22.25
		1	3	20.90	20.86	20.47	0	21.00	22.08	22.23	22.16	0	22.25
		1	5	20.95	20.89	20.48	0	21.00	22.12	21.98	22.18	0	22.25
		3	0	20.87	20.76	20.54	0	21.00	21.81	21.95	21.97	0	22.25
		3	1	20.81	20.78	20.54	0	21.00	21.96	21.90	21.98	0	22.25
		3	3	20.82	20.76	20.96	0	21.00	21.95	21.90	21.99	0	22.25
	16QAM	6	0	20.30	20.18	20.58	0	21.00	21.02	21.24	21.03	0.25	22.00
		1	0	20.70	20.67	20.43	0	21.00	21.13	21.37	21.10	0.25	22.00
		1	3	20.62	20.67	20.41	0	21.00	21.07	21.39	21.05	0.25	22.00
		1	5	20.66	20.66	20.42	0	21.00	21.07	21.00	21.03	0.25	22.00
		3	0	20.99	20.88	20.83	0	21.00	21.19	21.23	21.25	0.25	22.00
		3	1	20.97	20.85	20.82	0	21.00	21.20	21.19	21.22	0.25	22.00
	64QAM	3	3	20.98	20.85	20.80	0	21.00	21.08	21.20	21.21	0.25	22.00
		6	0	20.15	20.09	20.25	0	21.00	20.38	20.17	20.06	1.25	21.00
		1	0	20.22	20.20	20.05	0	21.00	20.02	20.11	20.21	1.25	21.00
		1	3	20.17	20.20	20.05	0	21.00	20.15	20.06	20.09	1.25	21.00
		1	5	20.12	20.17	20.05	0	21.00	20.17	20.06	20.12	1.25	21.00
		3	0	20.22	20.20	20.05	0	21.00	20.26	20.18	20.23	1.25	21.00
	64QAM	3	1	20.17	20.20	20.05	0	21.00	20.23	20.24	20.21	1.25	21.00
		3	3	20.12	20.17	20.05	0	21.00	20.25	20.24	20.20	1.25	21.00
		6	0	19.09	19.14	19.13	1	20.00	19.03	19.09	19.11	2.25	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

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

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

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

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

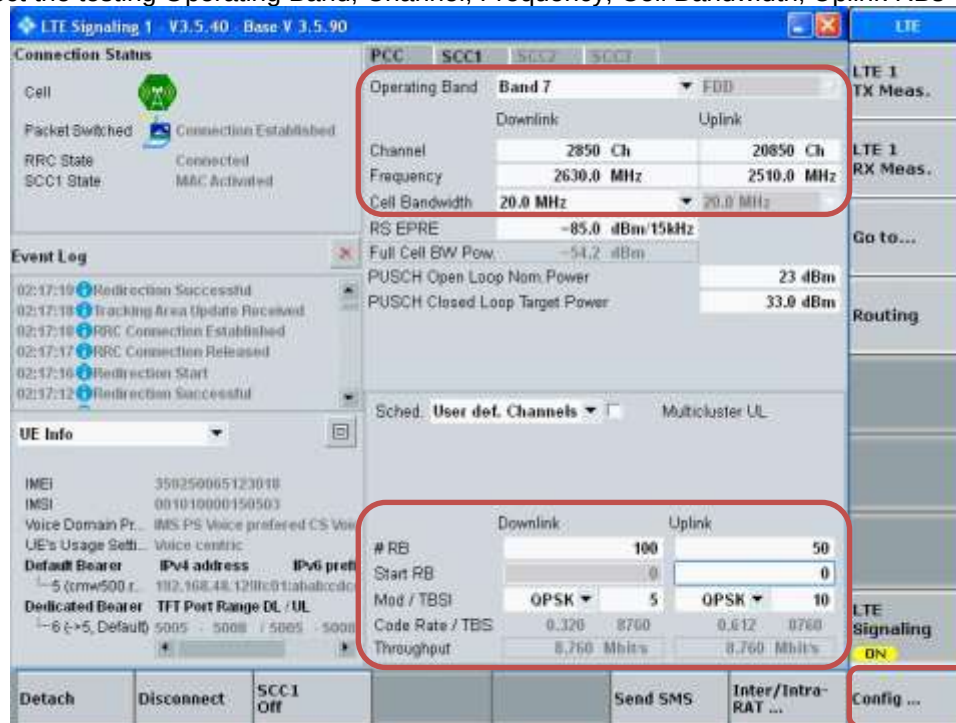
For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

LTE Carrier Aggregation Test Signal Set-up Procedure

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

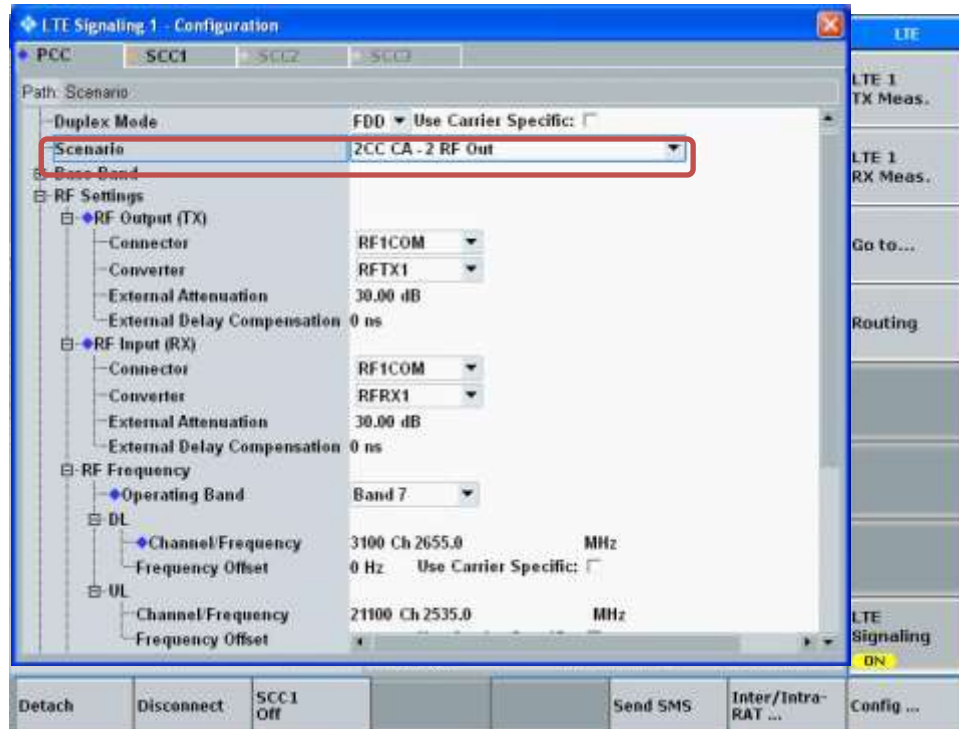
Set to CMW-500 with following parameters:

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

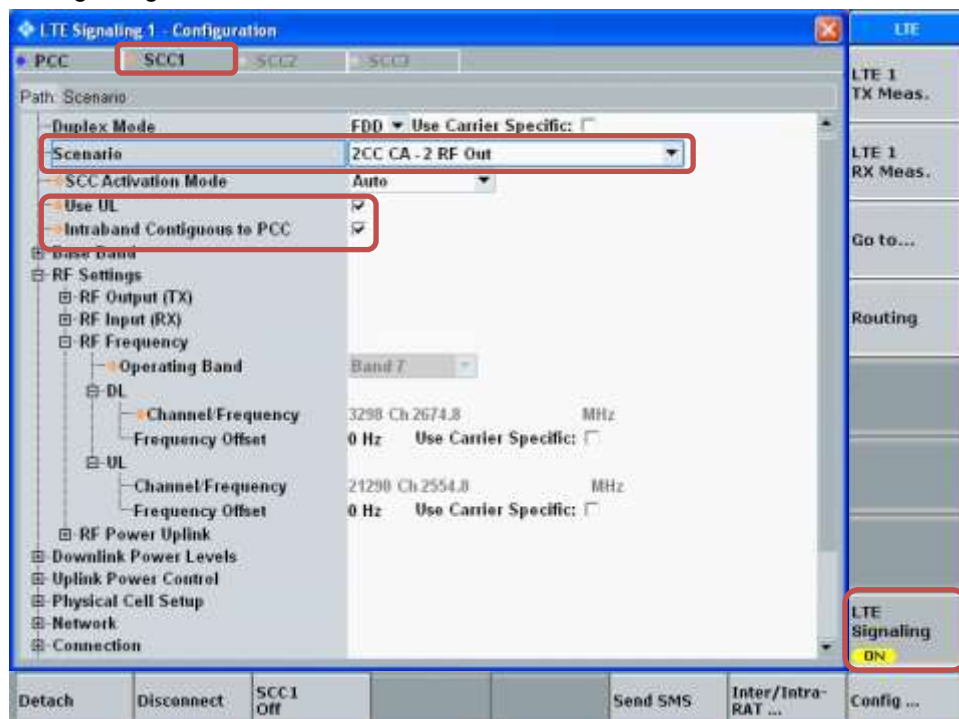


- Go to "Config...."

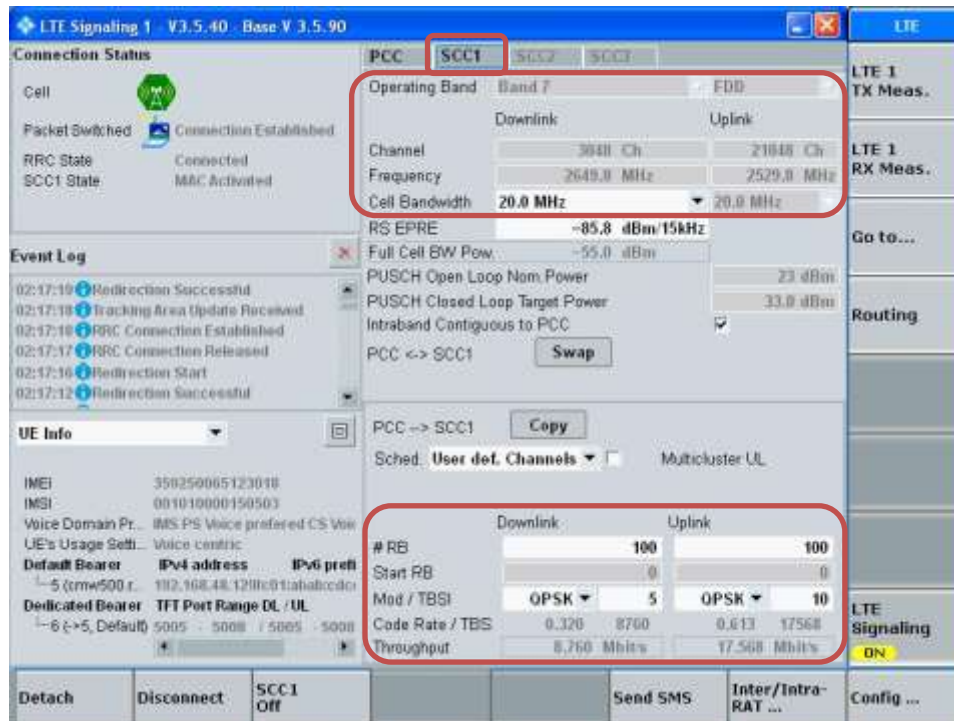
- Go to "Scenario"
- Set to "2CC CA - 2 RF Out"



- 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

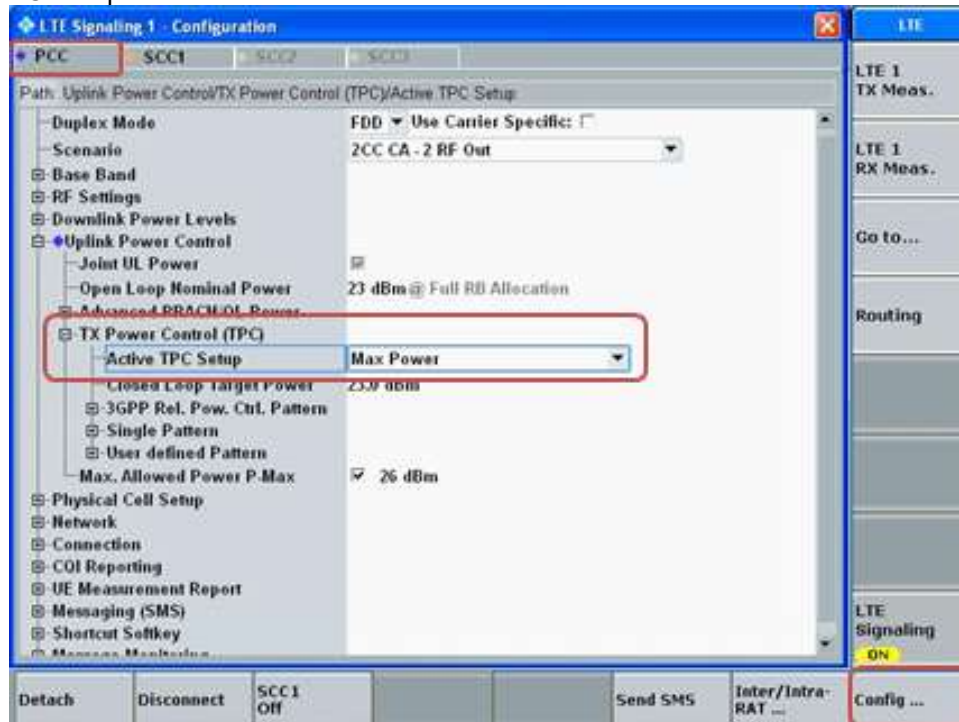


- Select “SCC1” tab
 - Select the testing Cell Bandwidth, Uplink RBs

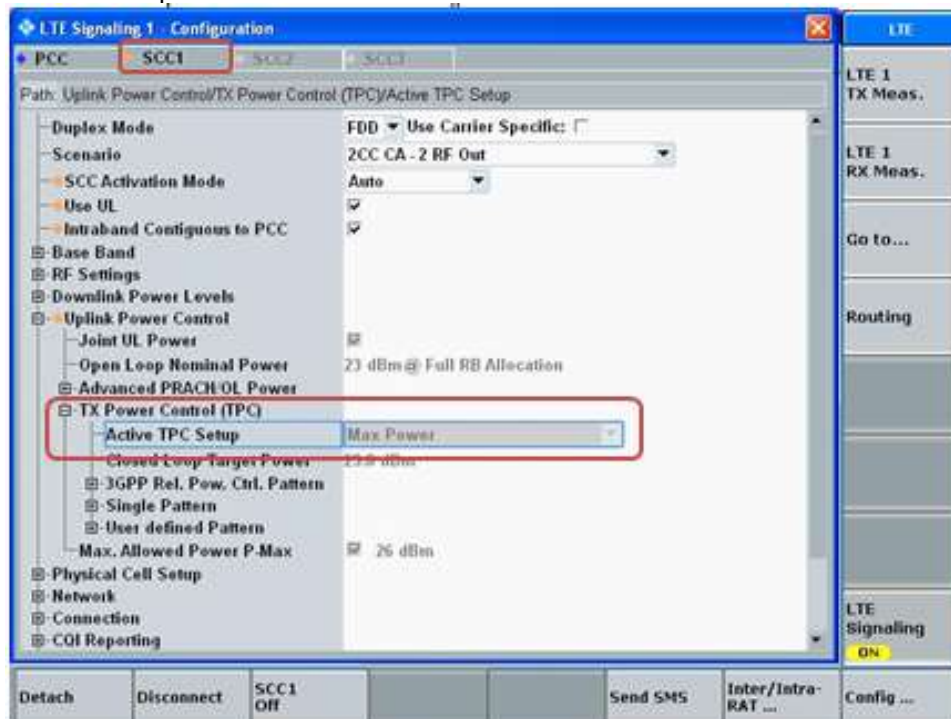


Max Power Setting

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

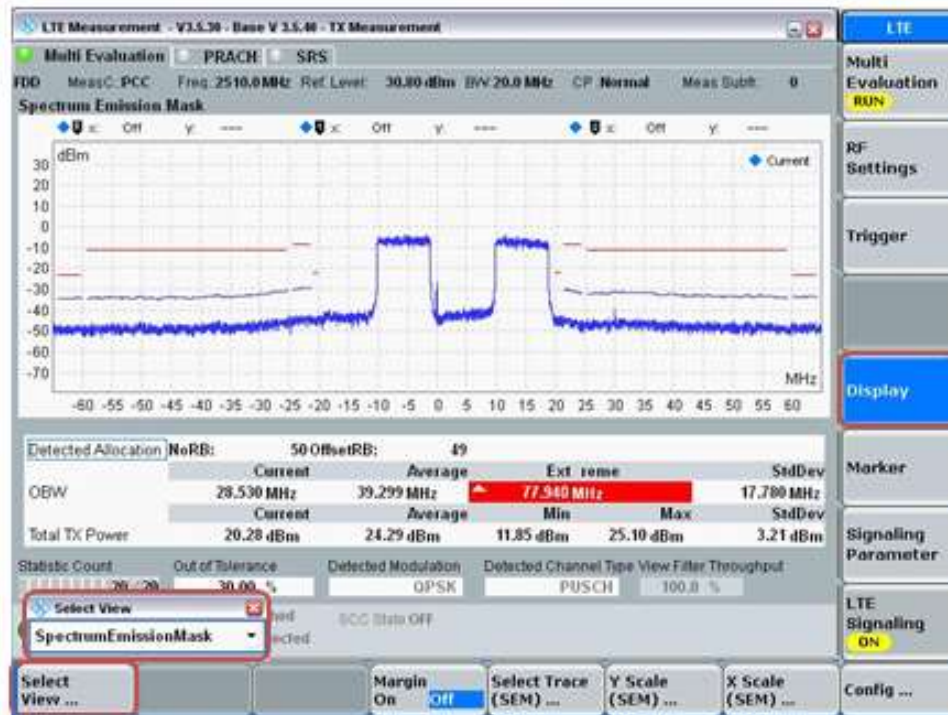


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



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	21.75	18.75	20.50	24.50	21.75	17.00	18.25
CA_41C (PC3)	QPSK	25.00	24.00	20.00	21.50	24.50	24.50	19.25	21.00
CA_41C (PC2)	QPSK	27.00	24.00	20.00	22.75	26.50	25.00	19.25	21.00

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	25.20	25.00	24.80	-0.4
CA_5B	ANT 1	Mode B	QPSK	10	836.5	1	49	5	843.9	1	0	25.70	25.20	25.00	24.89	-0.3
CA_5B	ANT 2	Mode A	QPSK	10	836.5	1	49	5	843.9	1	0	24.50	24.30	23.50	23.36	-0.9
CA_5B	ANT 2	Mode B	QPSK	10	836.5	1	49	5	843.9	1	0	24.50	24.30	23.50	23.33	-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	25.30	25.00	24.97	-0.3
CA_7C	ANT 1	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	21.75	21.55	21.75	21.70	0.1
CA_7C	ANT 2	Mode A	QPSK	20	2535	1	99	20	2554.8	1	0	18.75	18.68	18.75	18.75	0.1
CA_7C	ANT 2	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	20.50	20.20	20.50	20.25	0.1
CA_7C	ANT 3	Mode A	QPSK	20	2535	1	99	20	2554.8	1	0	25.00	24.94	24.50	24.15	-0.8
CA_7C	ANT 3	Mode B	QPSK	20	2535	1	99	20	2554.8	1	0	21.75	21.40	21.75	21.40	0.0
CA_7C	ANT 4	Mode A	QPSK	20	2535	1	99	20	2554.8	1	0	17.00	16.60	17.00	16.87	0.3
CA_7C	ANT 4	Mode B	QPSK	20	2510	1	99	20	2529.8	1	0	18.25	18.11	18.25	18.01	-0.1

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	25.70	25.00	24.88	-0.8
CA_41C	ANT 1	Mode B	QPSK	20	2593	1	99	20	2612.8	1	0	24.00	23.85	24.00	23.87	0.0
CA_41C	ANT 1	Mode B	QPSK	20	2506	1	99	20	2525.8	1	0	24.00	23.85	24.00	23.85	0.0
CA_41C	ANT 2	Mode A	QPSK	20	2680	1	0	20	2660.2	1	99	20.00	19.80	20.00	19.84	0.0
CA_41C	ANT 2	Mode B	QPSK	20	2593	1	99	20	2612.8	1	0	22.75	22.73	21.50	21.50	-1.2
CA_41C	ANT 2	Mode A	QPSK	20	2506	1	99	20	2525.8	1	0	22.75	22.60	21.50	21.50	-1.1
CA_41C	ANT 3	Mode A	QPSK	20	2593	1	99	20	2612.8	1	0	25.50	25.30	24.50	24.40	-0.9
CA_41C	ANT 3	Mode B	QPSK	20	2549.5	1	99	20	2569.3	1	0	25.00	25.00	24.50	24.20	-0.8
CA_41C	ANT 4	Mode A	QPSK	20	2593	1	99	20	2612.8	1	0	19.25	19.25	19.25	19.18	-0.1
CA_41C	ANT 4	Mode B	QPSK	20	2680	1	0	20	2660.2	1	99	21.00	21.00	21.00	21.00	0.0

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) 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	0.561	0.584	22.70	21.50	0.281	0.293	0.574
		ANT2	2A	ANT1	5A	20.50	25.70	0.892	0.283	17.50	22.70	0.447	0.142	0.589
		ANT3	2A	ANT1	5A	25.00	25.70	0.556	0.283	22.00	22.70	0.279	0.142	0.420
		ANT3	2A	ANT2	5A	25.00	24.50	0.556	0.584	22.00	21.50	0.279	0.293	0.571
		ANT4	2A	ANT1	5A	18.75	25.70	0.889	0.283	15.75	22.70	0.446	0.142	0.587
	Body & Hotspot	ANT4	2A	ANT2	5A	18.75	24.50	0.889	0.584	15.75	21.50	0.446	0.293	0.738
		ANT1	2A	ANT2	5A	21.75	24.50	0.976	0.450	18.75	21.50	0.489	0.226	0.715
		ANT2	2A	ANT1	5A	18.50	25.70	0.893	0.701	15.50	22.70	0.448	0.351	0.799
		ANT3	2A	ANT1	5A	19.75	25.70	0.974	0.701	16.75	22.70	0.488	0.351	0.839
		ANT3	2A	ANT2	5A	19.75	24.50	0.974	0.450	16.75	21.50	0.488	0.226	0.714
CA_2A-12A	Head	ANT4	2A	ANT1	5A	20.00	25.70	0.845	0.701	17.00	22.70	0.424	0.351	0.775
		ANT4	2A	ANT2	5A	20.00	24.50	0.845	0.450	17.00	21.50	0.424	0.226	0.649
	Body	ANT1	2A	ANT2	12A	25.70	24.50	0.561	0.498	22.70	21.50	0.281	0.250	0.531
		ANT2	2A	ANT1	12A	20.50	25.70	0.892	0.198	17.50	22.70	0.447	0.099	0.546
		ANT3	2A	ANT1	12A	25.00	25.70	0.556	0.198	22.00	22.70	0.279	0.099	0.378
		ANT3	2A	ANT2	12A	25.00	24.50	0.556	0.498	22.00	21.50	0.279	0.250	0.528
		ANT4	2A	ANT1	12A	18.75	25.70	0.889	0.198	15.75	22.70	0.446	0.099	0.545
		ANT4	2A	ANT2	12A	18.75	24.50	0.889	0.498	15.75	21.50	0.446	0.250	0.695
		ANT1	2A	ANT2	12A	21.75	24.50	0.976	0.388	18.75	21.50	0.489	0.194	0.684
		ANT2	2A	ANT1	12A	18.50	25.70	0.893	0.785	15.50	22.70	0.448	0.393	0.841
CA_2A-13A	Head	ANT3	2A	ANT1	12A	19.75	25.70	0.974	0.785	16.75	22.70	0.488	0.393	0.882
		ANT3	2A	ANT2	12A	19.75	24.50	0.974	0.388	16.75	21.50	0.488	0.194	0.683
		ANT4	2A	ANT1	12A	20.00	25.70	0.845	0.785	17.00	22.70	0.424	0.393	0.817
		ANT4	2A	ANT2	12A	20.00	24.50	0.845	0.388	17.00	21.50	0.424	0.194	0.618
	Body	ANT1	2A	ANT2	13A	25.70	24.50	0.561	0.457	22.70	21.50	0.281	0.229	0.510
		ANT2	2A	ANT1	13A	20.50	25.70	0.892	0.262	17.50	22.70	0.447	0.131	0.578
		ANT3	2A	ANT1	13A	25.00	25.70	0.556	0.262	22.00	22.70	0.279	0.131	0.410
		ANT3	2A	ANT2	13A	25.00	24.50	0.556	0.457	22.00	21.50	0.279	0.229	0.508
		ANT4	2A	ANT1	13A	18.75	25.70	0.889	0.262	15.75	22.70	0.446	0.131	0.577
CA_2A-13A	Body	ANT4	2A	ANT2	13A	18.75	24.50	0.889	0.457	15.75	21.50	0.446	0.229	0.675
		ANT1	2A	ANT2	13A	21.75	24.50	0.976	0.404	18.75	21.50	0.489	0.202	0.692
		ANT2	2A	ANT1	13A	18.50	25.70	0.893	0.976	15.50	22.70	0.448	0.489	0.937
		ANT3	2A	ANT1	13A	19.75	25.70	0.974	0.976	16.75	22.70	0.488	0.489	0.977
		ANT3	2A	ANT2	13A	19.75	24.50	0.974	0.404	16.75	21.50	0.488	0.202	0.691
		ANT4	2A	ANT1	13A	20.00	25.70	0.845	0.976	17.00	22.70	0.424	0.489	0.913
		ANT4	2A	ANT2	13A	20.00	24.50	0.845	0.404	17.00	21.50	0.424	0.202	0.626

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	0.277	0.584	22.70	21.50	0.139	0.293	0.432
		ANT2	4A	ANT1	5A	22.00	25.70	0.882	0.283	19.00	22.70	0.442	0.142	0.584
		ANT3	4A	ANT1	5A	25.00	25.70	0.390	0.283	22.00	22.70	0.195	0.142	0.337
		ANT3	4A	ANT2	5A	25.00	24.50	0.390	0.584	22.00	21.50	0.195	0.293	0.488
		ANT4	4A	ANT1	5A	21.00	25.70	0.871	0.283	18.00	22.70	0.437	0.142	0.578
	Body	ANT4	4A	ANT2	5A	21.00	24.50	0.871	0.584	18.00	21.50	0.437	0.293	0.729
		ANT1	4A	ANT2	5A	18.00	24.50	0.954	0.450	15.00	21.50	0.478	0.226	0.704
		ANT2	4A	ANT1	5A	20.00	25.70	0.893	0.701	17.00	22.70	0.448	0.351	0.799
		ANT3	4A	ANT1	5A	21.75	25.70	0.991	0.701	18.75	22.70	0.497	0.351	0.848
		ANT3	4A	ANT2	5A	21.75	24.50	0.991	0.450	18.75	21.50	0.497	0.226	0.722
CA_4A-12A	Head	ANT4	4A	ANT1	5A	22.25	25.70	0.889	0.701	19.25	22.70	0.446	0.351	0.797
		ANT4	4A	ANT2	5A	22.25	24.50	0.889	0.450	19.25	21.50	0.446	0.226	0.671
	Body	ANT1	4A	ANT2	12A	25.70	24.50	0.277	0.498	22.70	21.50	0.139	0.250	0.388
		ANT2	4A	ANT1	12A	22.00	25.70	0.882	0.198	19.00	22.70	0.442	0.099	0.541
		ANT3	4A	ANT1	12A	25.00	25.70	0.390	0.198	22.00	22.70	0.195	0.099	0.295
		ANT3	4A	ANT2	12A	25.00	24.50	0.390	0.498	22.00	21.50	0.195	0.250	0.445
		ANT4	4A	ANT1	12A	21.00	25.70	0.871	0.198	18.00	22.70	0.437	0.099	0.536
	Body	ANT4	4A	ANT2	12A	21.00	24.50	0.871	0.498	18.00	21.50	0.437	0.250	0.686
		ANT1	4A	ANT2	12A	18.00	24.50	0.954	0.388	15.00	21.50	0.478	0.194	0.673
		ANT2	4A	ANT1	12A	20.00	25.70	0.893	0.785	17.00	22.70	0.448	0.393	0.841
		ANT3	4A	ANT1	12A	21.75	25.70	0.991	0.785	18.75	22.70	0.497	0.393	0.890
CA_4A-13A	Head	ANT3	4A	ANT2	12A	21.75	24.50	0.991	0.388	18.75	21.50	0.497	0.194	0.691
		ANT4	4A	ANT1	12A	22.25	25.70	0.889	0.785	19.25	22.70	0.446	0.393	0.839
		ANT4	4A	ANT2	12A	22.25	24.50	0.889	0.388	19.25	21.50	0.446	0.194	0.640
	Body	ANT1	4A	ANT2	13A	25.70	24.50	0.277	0.457	22.70	21.50	0.139	0.229	0.368
		ANT2	4A	ANT1	13A	22.00	25.70	0.882	0.262	19.00	22.70	0.442	0.131	0.573
		ANT3	4A	ANT1	13A	25.00	25.70	0.390	0.262	22.00	22.70	0.195	0.131	0.327
		ANT3	4A	ANT2	13A	25.00	24.50	0.390	0.457	22.00	21.50	0.195	0.229	0.425
		ANT4	4A	ANT1	13A	21.00	25.70	0.871	0.262	18.00	22.70	0.437	0.131	0.568
	Body	ANT4	4A	ANT2	13A	21.00	24.50	0.871	0.457	18.00	21.50	0.437	0.229	0.666
		ANT1	4A	ANT2	13A	18.00	24.50	0.954	0.404	15.00	21.50	0.478	0.202	0.681
		ANT2	4A	ANT1	13A	20.00	25.70	0.893	0.976	17.00	22.70	0.448	0.489	0.937
		ANT3	4A	ANT1	13A	21.75	25.70	0.991	0.976	18.75	22.70	0.497	0.489	0.986
		ANT3	4A	ANT2	13A	21.75	24.50	0.991	0.404	18.75	21.50	0.497	0.202	0.699
CA_5A-7A	Head	ANT4	4A	ANT1	13A	22.25	25.70	0.889	0.976	19.25	22.70	0.446	0.489	0.935
		ANT4	4A	ANT2	13A	22.25	24.50	0.889	0.404	19.25	21.50	0.446	0.202	0.648
	Body	ANT1	5A	ANT2	7A	25.70	18.75	0.283	0.889	22.70	15.75	0.142	0.446	0.587
		ANT1	5A	ANT3	7A	25.70	25.00	0.283	0.408	22.70	22.00	0.142	0.204	0.346
		ANT1	5A	ANT4	7A	25.70	17.00	0.283	0.887	22.70	14.00	0.142	0.445	0.586
		ANT2	5A	ANT1	7A	24.50	25.70	0.584	0.320	21.50	22.70	0.293	0.160	0.453
		ANT2	5A	ANT3	7A	24.50	25.00	0.584	0.408	21.50	22.00	0.293	0.204	0.497
	Body	ANT2	5A	ANT4	7A	24.50	17.00	0.584	0.887	21.50	14.00	0.293	0.445	0.737
		ANT1	5A	ANT2	7A	25.70	20.50	0.701	0.889	22.70	17.50	0.351	0.446	0.797
		ANT1	5A	ANT3	7A	25.70	21.75	0.701	0.894	22.70	18.75	0.351	0.448	0.799
		ANT1	5A	ANT4	7A	25.70	18.25	0.701	0.839	22.70	15.25	0.351	0.420	0.772
		ANT2	5A	ANT1	7A	24.50	21.75	0.450	0.932	21.50	18.75	0.226	0.467	0.693
CA_5A-66A	Head	ANT2	5A	ANT3	7A	24.50	21.75	0.450	0.894	21.50	18.75	0.226	0.448	0.674
		ANT2	5A	ANT4	7A	24.50	18.25	0.450	0.839	21.50	15.25	0.226	0.420	0.646
	Body	ANT1	5A	ANT2	66A	25.70	25.70	0.283	0.882	22.70	22.70	0.142	0.442	0.584
		ANT1	5A	ANT3	66A	25.70	22.00	0.283	0.390	22.70	19.00	0.142	0.195	0.337
		ANT1	5A	ANT4	66A	25.70	25.00	0.283	0.871	22.70	22.00	0.142	0.437	0.578
		ANT2	5A	ANT1	66A	24.50	25.00	0.584	0.277	21.50	22.00	0.293	0.139	0.432
		ANT2	5A	ANT3	66A	24.50	21.00	0.584	0.390	21.50	18.00	0.293	0.195	0.488
	Body	ANT2	5A	ANT4	66A	24.50	21.00	0.584	0.871	21.50	18.00	0.293	0.437	0.729
		ANT1	5A	ANT2	66A	25.70	18.00	0.701	0.893	22.70	15.00	0.351	0.448	0.799
		ANT1	5A	ANT3	66A	25.70	20.00	0.701	0.991	22.70	17.00	0.351	0.497	0.848
		ANT1	5A	ANT4	66A	25.70	21.75	0.701	0.889	22.70	18.75	0.351	0.446	0.797
		ANT2	5A	ANT1	66A	24.50	21.75	0.450	0.954	21.50	18.75	0.226	0.478	0.704
	Body	ANT2	5A	ANT3	66A	24.50	22.25	0.450	0.991	21.50	19.25	0.226	0.497	0.722
		ANT2	5A	ANT4	66A	24.50	22.25	0.450	0.889	21.50	19.25	0.226	0.446	0.671

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_12A-30A	Head	ANT1	12A	ANT2	30A	25.70	21.00	0.198	0.839	22.70	18.00	0.099	0.420	0.520
		ANT1	12A	ANT3	30A	25.70	24.50	0.198	0.312	22.70	21.50	0.099	0.156	0.256
		ANT1	12A	ANT4	30A	25.70	18.00	0.198	0.861	22.70	15.00	0.099	0.432	0.531
		ANT2	12A	ANT1	30A	24.50	25.70	0.498	0.650	21.50	22.70	0.250	0.326	0.575
		ANT2	12A	ANT3	30A	24.50	24.50	0.498	0.312	21.50	21.50	0.250	0.156	0.406
	Body	ANT2	12A	ANT4	30A	24.50	18.00	0.498	0.861	21.50	15.00	0.250	0.432	0.681
		ANT1	12A	ANT2	30A	25.70	20.50	0.785	0.852	22.70	17.50	0.393	0.427	0.820
		ANT1	12A	ANT3	30A	25.70	20.75	0.785	0.991	22.70	17.75	0.393	0.497	0.890
		ANT1	12A	ANT4	30A	25.70	20.00	0.785	0.865	22.70	17.00	0.393	0.434	0.827
		ANT2	12A	ANT1	30A	24.50	22.00	0.388	0.996	21.50	19.00	0.194	0.499	0.694
CA_12A-66A	Head	ANT2	12A	ANT3	30A	24.50	20.75	0.388	0.991	21.50	17.75	0.194	0.497	0.691
		ANT2	12A	ANT4	30A	24.50	20.00	0.388	0.865	21.50	17.00	0.194	0.434	0.628
	Body	ANT1	12A	ANT2	66A	25.70	25.70	0.198	0.882	22.70	22.70	0.099	0.442	0.541
		ANT1	12A	ANT3	66A	25.70	22.00	0.198	0.390	22.70	19.00	0.099	0.195	0.295
		ANT1	12A	ANT4	66A	25.70	25.00	0.198	0.871	22.70	22.00	0.099	0.437	0.536
	Body	ANT2	12A	ANT1	66A	24.50	25.00	0.498	0.277	21.50	22.00	0.250	0.139	0.388
		ANT2	12A	ANT3	66A	24.50	21.00	0.498	0.390	21.50	18.00	0.250	0.195	0.445
		ANT2	12A	ANT4	66A	24.50	21.00	0.498	0.871	21.50	18.00	0.250	0.437	0.686
		ANT1	12A	ANT2	66A	25.70	18.00	0.785	0.893	22.70	15.00	0.393	0.448	0.841
		ANT1	12A	ANT3	66A	25.70	20.00	0.785	0.991	22.70	17.00	0.393	0.497	0.890
CA_13A-66A	Head	ANT1	12A	ANT4	66A	25.70	21.75	0.785	0.889	22.70	18.75	0.393	0.446	0.839
		ANT2	12A	ANT1	66A	24.50	21.75	0.388	0.954	21.50	18.75	0.194	0.478	0.673
		ANT2	12A	ANT3	66A	24.50	22.25	0.388	0.991	21.50	19.25	0.194	0.497	0.691
		ANT2	12A	ANT4	66A	24.50	22.25	0.388	0.889	21.50	19.25	0.194	0.446	0.640
	Body	ANT1	13A	ANT2	66A	25.70	25.70	0.262	0.882	22.70	22.70	0.131	0.442	0.573
		ANT1	13A	ANT3	66A	25.70	22.00	0.262	0.390	22.70	19.00	0.131	0.195	0.327
		ANT1	13A	ANT4	66A	25.70	25.00	0.262	0.871	22.70	22.00	0.131	0.437	0.568
		ANT2	13A	ANT1	66A	24.50	25.00	0.457	0.277	21.50	22.00	0.229	0.139	0.368
		ANT2	13A	ANT3	66A	24.50	21.00	0.457	0.390	21.50	18.00	0.229	0.195	0.425
CA_13A-66A	Body	ANT2	13A	ANT4	66A	24.50	21.00	0.457	0.871	21.50	18.00	0.229	0.437	0.666
		ANT1	13A	ANT2	66A	25.70	18.00	0.976	0.893	22.70	15.00	0.489	0.448	0.937
		ANT1	13A	ANT3	66A	25.70	20.00	0.976	0.991	22.70	17.00	0.489	0.497	0.986
		ANT1	13A	ANT4	66A	25.70	21.75	0.976	0.889	22.70	18.75	0.489	0.446	0.935
		ANT2	13A	ANT1	66A	24.50	21.75	0.404	0.954	21.50	18.75	0.202	0.478	0.681
		ANT2	13A	ANT3	66A	24.50	22.25	0.404	0.991	21.50	19.25	0.202	0.497	0.699
CA_13A-66A	Body	ANT2	13A	ANT4	66A	24.50	22.25	0.404	0.889	21.50	19.25	0.202	0.446	0.648

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	17.00	18.75	20.50	17.75	13.50	15.25
	2	2417	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	3	2422	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	10	2457	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	11	2462	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	12	2467	20.50	20.50	17.00	18.75	20.50	17.75	13.50	15.25
	13	2472	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
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	17.00	17.50	17.50	17.50	13.50	15.25
	2	2417	19.50	19.50	17.00	18.75	19.50	17.75	13.50	15.25
	3	2422	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	10	2457	19.50	19.50	17.00	18.75	19.50	17.75	13.50	15.25
	11	2462	17.50	17.50	17.00	17.50	17.50	17.50	13.50	15.25
	12	2467	15.50	15.50	15.50	15.50	15.50	15.50	13.50	15.25
	13	2472	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
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	13.50	15.25
	2	2417	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	3	2422	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	10	2457	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	13.50	15.25
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	14.00
	13	2472	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50

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	13.50	15.25
	2	2417	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	3	2422	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	10	2457	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	13.50	15.25
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	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	13.50	15.25
	2	2417	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	3	2422	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	10	2457	18.00	18.00	17.00	18.00	18.00	17.75	13.50	15.25
	11	2462	16.00	16.00	16.00	16.00	16.00	16.00	13.50	15.25
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	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	13.50	15.25
	2	2417	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	3	2422	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	19.50	19.50	17.00	18.75	19.50	17.75	13.50	15.25
	10	2457	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	11	2462	16.50	16.50	16.50	16.50	16.50	16.50	13.50	15.25
	12	2467	14.00	14.00	14.00	14.00	14.00	14.00	13.50	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 SU OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	3	2422	19.00	19.00	17.00	18.75	19.00	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	12	2467	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	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	13.50	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	3	2422	19.00	19.00	17.00	18.75	19.00	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	12	2467	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	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 OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	3	2422	19.00	19.00	17.00	18.75	19.00	17.75	13.50	15.25
	4	2427	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	5	2432	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	6	2437	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	7	2442	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	8	2447	21.50	21.50	17.00	18.75	21.50	17.75	13.50	15.25
	9	2452	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	12	2467	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	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
802.11ax HE20 RU26 OFDMA (MIMO)	1	2412	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	2	2417	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	3	2422	19.00	19.00	17.00	18.75	19.00	17.75	13.50	15.25
	4	2427	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	5	2432	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	6	2437	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	7	2442	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	8	2447	20.00	20.00	17.00	18.75	20.00	17.75	13.50	15.25
	9	2452	18.50	18.50	17.00	18.50	18.50	17.75	13.50	15.25
	10	2457	17.00	17.00	17.00	17.00	17.00	17.00	13.50	15.25
	11	2462	15.00	15.00	15.00	15.00	15.00	15.00	13.50	15.00
	12	2467	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
	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		21.20	21.50	
				6	2437	21.50	21.50		21.40	21.50	
				11	2462	21.50	21.50		21.40	21.50	
				12	2467	20.50	20.50		20.50	20.50	
				13	2472	18.00	18.00		18.00	18.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	17.00	17.00	Yes	18.75	18.75	Yes
				6	2437	17.00	17.00		18.75	18.75	
				11	2462	17.00	17.00		18.75	18.75	
				12	2467	17.00	17.00		18.75	18.75	
				13	2472	17.00	17.00		18.00	18.00	
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	17.75	17.75	Yes
				2	2417	21.50	21.50		17.75	17.75	
				6	2437	21.50	21.50		17.75	17.75	
				11	2462	21.50	21.50		17.75	17.75	
				12	2467	20.50	20.50		17.75	17.75	
				13	2472	18.00	18.00		17.75	17.75	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	13.50	13.50	Yes	15.25	15.25	Yes
				6	2437	13.50	13.50		15.25	15.25	
				11	2462	13.50	13.50		15.25	15.25	
				12	2467	13.50	13.50		15.25	15.25	
				13	2472	13.50	13.50		15.25	15.25	

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	19.00	19.00	17.00	19.00	17.75
		40	5200	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
		44	5220	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
		48	5240	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
	802.11n/ac 40 MHz	38	5190	17.50	17.50	17.50	17.50	17.50	17.00	17.50	17.50
		46	5230	21.50	21.50	21.50	21.50	21.50	17.00	20.75	17.75
	802.11ac 80 MHz	42	5210	17.50	17.50	17.50	17.50	17.50	17.00	17.50	17.50
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		56	5280	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		60	5300	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		64	5320	19.00	19.00	19.00	19.00	19.00	14.25	16.50	15.75
	802.11n/ac 40 MHz	54	5270	21.50	19.50	20.75	20.00	21.50	14.25	16.50	15.75
		62	5310	17.50	17.50	17.50	17.50	17.50	14.25	16.50	15.75
	802.11ac 80 MHz	58	5290	17.50	17.50	17.50	17.50	17.50	14.25	16.50	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-2C 5.5 GHz (SISO)	802.11a/n/ac 20 MHz	100	5500	19.00	19.00	19.00	18.75	19.00	14.75	17.00	14.50
		104	5520	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		108	5540	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		112	5560	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		116	5580	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		120	5600	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		124	5620	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		128	5640	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		132	5660	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
		136	5680	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
	802.11n/ac 40 MHz	140	5700	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		144	5720	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
		102	5510	17.50	17.50	17.50	17.50	17.50	14.75	17.00	14.50
		110	5550	21.50	20.00	19.25	18.75	21.50	14.75	17.00	14.50
		118	5590	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50
	802.11ac 80 MHz	126	5630	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50
		134	5670	20.50	20.00	20.50	18.75	20.50	14.75	17.00	14.50
142		5710	21.50	20.00	21.50	18.75	21.50	14.75	17.00	14.50	
106		5530	16.50	16.50	16.50	16.50	16.50	14.75	16.50	14.50	
802.11ac 80 MHz	122	5610	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50	
	138	5690	21.50	20.00	21.50	18.75	21.50	14.75	17.00	14.50	
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-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11n/ac 40 MHz	165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ac 80 MHz	159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00

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	18.00	18.00	17.00	18.00	17.75
		40	5200	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
		44	5220	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
		48	5240	21.00	21.00	21.00	21.00	21.00	17.00	20.75	17.75
	802.11ax HE40/SU	38	5190	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
		46	5230	21.50	21.50	21.50	21.50	21.50	17.00	20.75	17.75
		802.11ax HE80/SU	42	5210	16.00	16.00	16.00	16.00	16.00	16.00	16.00
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20/SU	52	5260	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		56	5280	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		60	5300	21.00	19.50	20.75	20.00	21.00	14.25	16.50	15.75
		64	5320	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
	802.11ax HE40/SU	54	5270	21.50	19.50	20.75	20.00	21.50	14.25	16.50	15.75
		62	5310	16.00	16.00	16.00	16.00	16.00	14.25	16.00	15.75
		802.11ax HE80/SU	58	5290	16.00	16.00	16.00	16.00	16.00	14.25	16.00
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)	802.11ax HE20/SU	100	5500	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		104	5520	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		108	5540	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		112	5560	21.00	20.00	19.25	18.75	21.00	14.75	17.00	14.50
		116	5580	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		120	5600	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		124	5620	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		128	5640	21.00	20.00	20.00	18.75	21.00	14.75	17.00	14.50
		132	5660	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
		136	5680	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
	802.11ax HE40/SU	140	5700	16.50	16.50	16.50	16.50	16.50	14.75	16.50	14.50
		144	5720	21.00	20.00	21.00	18.75	21.00	14.75	17.00	14.50
		102	5510	16.00	16.00	16.00	16.00	16.00	14.75	16.00	14.50
		110	5550	21.50	20.00	19.25	18.75	21.50	14.75	17.00	14.50
		118	5590	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50
		126	5630	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50
	802.11ax HE80/SU	134	5670	19.00	19.00	19.00	18.75	19.00	14.75	17.00	14.50
		142	5710	21.50	20.00	21.50	18.75	21.50	14.75	17.00	14.50
		106	5530	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		122	5610	21.50	20.00	20.00	18.75	21.50	14.75	17.00	14.50
		138	5690	21.50	20.00	21.50	18.75	21.50	14.75	17.00	14.50
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-3 5.8 GHz (SISO)	802.11ax HE20/SU	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/SU	165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/SU	159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00

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	18.00	18.00	17.00	18.00	17.75
		40	5200	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		44	5220	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		48	5240	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
	802.11ax HE40/RU106	38	5190	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
		46	5230	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
U-NII-2A 5.2 GHz (SISO)	802.11ax HE20/RU106	52	5260	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		56	5280	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		60	5300	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		64	5320	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
	802.11ax HE40/RU106	54	5270	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		62	5310	16.00	16.00	16.00	16.00	16.00	14.25	16.00	15.75
U-NII-2C 5.3 GHz (SISO)	802.11ax HE20/RU106	100	5500	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		104	5520	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		108	5540	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		112	5560	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		116	5580	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		120	5600	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		124	5620	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		128	5640	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		132	5660	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		136	5680	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
	802.11ax HE40/RU106	140	5700	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		144	5720	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		102	5510	16.00	16.00	16.00	16.00	16.00	14.75	16.00	14.50
		110	5550	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		118	5590	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		126	5630	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
	802.11ax HE80/RU106	134	5670	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		142	5710	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU106	106	5530	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		122	5610	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		138	5690	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU106	157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/RU106	155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00

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	15.00
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	802.11ax HE40/RU52	38	5190	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		46	5230	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
U-NII-2A 5.2 GHz (SISO)	802.11ax HE20/RU52	52	5260	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		56	5280	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		60	5300	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		64	5320	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
	802.11ax HE40/RU52	54	5270	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		62	5310	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
U-NII-2C 5.3 GHz (SISO)	802.11ax HE20/RU52	58	5290	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
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)	802.11ax HE20/RU52	100	5500	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		104	5520	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		108	5540	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		112	5560	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		116	5580	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		120	5600	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		124	5620	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		128	5640	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		132	5660	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		136	5680	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
	802.11ax HE40/RU52	140	5700	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		144	5720	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		102	5510	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		110	5550	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		118	5590	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		126	5630	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
	802.11ax HE80/RU52	134	5670	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		142	5710	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
U-NII-3 5.8 GHz (SISO)	802.11ax HE20/RU52	106	5530	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		122	5610	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		138	5690	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
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-3 5.8 GHz (SISO)	802.11ax HE20/RU52	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU52	165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00

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	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
		136	5680	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU26	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
		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
	802.11ax HE80/RU26	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
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/RU26	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU26	151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/RU26	155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00

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	18.00	18.00	17.00	18.00	17.75
		40	5200	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		44	5220	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		48	5240	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
	802.11n/ac 40 MHz	38	5190	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
		46	5230	20.00	20.00	20.00	20.00	20.00	17.00	20.00	17.75
		802.11ac 80 MHz	42	5210	16.50	16.50	16.50	16.50	16.50	16.50	16.50
U-NII-2A 5.3 GHz (MIMO)	802.11a/n/ac 20 MHz	52	5260	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		56	5280	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		60	5300	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		64	5320	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
	802.11n/ac 40 MHz	54	5270	20.00	19.50	20.00	20.00	20.00	14.25	16.50	15.75
		62	5310	17.00	17.00	17.00	17.00	17.00	14.25	16.50	15.75
	802.11ac 80 MHz	58	5290	16.50	16.50	16.50	16.50	16.50	14.25	16.50	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-2C 5.5 GHz (MIMO)	802.11a/n/ac 20 MHz	100	5500	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		104	5520	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		108	5540	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		112	5560	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		116	5580	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		120	5600	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		124	5620	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		128	5640	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		132	5660	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		136	5680	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
	802.11n/ac 40 MHz	140	5700	17.50	17.50	17.50	17.50	17.50	14.75	17.00	14.50
		144	5720	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		102	5510	17.00	17.00	17.00	17.00	17.00	14.75	17.00	14.50
		110	5550	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		118	5590	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		126	5630	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
	802.11ac 80 MHz	134	5670	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		142	5710	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
106		5530	15.50	15.50	15.50	15.50	15.50	14.75	15.50	14.50	
122		5610	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50	
	138	5690	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50	
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-3 5.8 GHz (MIMO)	802.11a/n/ac 20 MHz	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11n/ac 40 MHz	165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ac 80 MHz	159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	155	5775	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00	

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	17.00	17.00	17.00
		40	5200	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		44	5220	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
		48	5240	18.00	18.00	18.00	18.00	18.00	17.00	18.00	17.75
	802.11ax HE40/SU	38	5190	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
		46	5230	20.00	20.00	20.00	20.00	20.00	17.00	20.00	17.75
	802.11ax HE80/SU	42	5210	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
U-NII-2A 5.3 GHz (MIMO)	802.11ax HE20/SU	52	5260	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		56	5280	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		60	5300	18.00	18.00	18.00	18.00	18.00	14.25	16.50	15.75
		64	5320	17.00	17.00	17.00	17.00	17.00	14.25	16.50	15.75
	802.11ax HE40/SU	54	5270	20.00	19.50	20.00	20.00	20.00	14.25	16.50	15.75
		62	5310	15.50	15.50	15.50	15.50	15.50	14.25	15.50	15.50
	802.11ax HE80/SU	58	5290	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
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)	802.11ax HE20/SU	100	5500	17.00	17.00	17.00	17.00	17.00	14.75	17.00	14.50
		104	5520	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		108	5540	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		112	5560	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		116	5580	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		120	5600	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		124	5620	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		128	5640	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		132	5660	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		136	5680	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
	802.11ax HE40/SU	140	5700	16.00	16.00	16.00	16.00	16.00	14.75	16.00	14.50
		144	5720	18.00	18.00	18.00	18.00	18.00	14.75	17.00	14.50
		102	5510	15.50	15.50	15.50	15.50	15.50	14.75	15.50	14.50
		110	5550	20.00	20.00	19.25	18.75	20.00	14.75	17.00	14.50
		118	5590	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		126	5630	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
	802.11ax HE80/SU	134	5670	18.50	18.50	18.50	18.50	18.50	14.75	17.00	14.50
		142	5710	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		106	5530	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
		122	5610	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
		138	5690	20.00	20.00	20.00	18.75	20.00	14.75	17.00	14.50
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-3 5.8 GHz (MIMO)	802.11ax HE20/SU	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/SU	151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/SU	155	5775	20.00	18.00	20.00	20.00	20.00	12.50	17.50	16.00

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 (MIMO)	802.11ax HE20/RU106	36	5180	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
	802.11ax HE40/RU106	38	5190	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		46	5230	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
U-NII-2A 5.2 GHz (MIMO)	802.11ax HE20/RU106	42	5210	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
		52	5260	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		56	5280	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		60	5300	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
	802.11ax HE40/RU106	64	5320	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		54	5270	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
U-NII-2C 5.3 GHz (MIMO)	802.11ax HE20/RU106	62	5310	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		58	5290	15.00	15.00	15.00	15.00	15.00	14.25	15.00	15.00
		100	5500	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		104	5520	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		108	5540	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		112	5560	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		116	5580	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		120	5600	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		124	5620	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		128	5640	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
	802.11ax HE40/RU106	132	5660	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		136	5680	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		140	5700	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		144	5720	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		102	5510	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		110	5550	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
	802.11ax HE80/RU106	118	5590	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		126	5630	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		134	5670	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		142	5710	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
U-NII-3 5.8 GHz (MIMO)	802.11ax HE20/RU106	106	5530	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
		122	5610	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		138	5690	15.00	15.00	15.00	15.00	15.00	14.75	15.00	14.50
		149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU106	157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/RU106	155	5775	20.00	18.00	20.00	20.00	20.00	12.50	17.50	16.00

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	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
		136	5680	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
	802.11ax HE40/RU52	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
		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
	802.11ax HE80/RU52	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
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)	802.11ax HE20/RU52	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU52	151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/RU52	155	5775	20.00	18.00	20.00	20.00	20.00	12.50	17.50	16.00

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 5.2 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 5.3 GHz (MIMO)	802.11ax HE20/RU26	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
		136	5680	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	802.11ax HE40/RU26	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
		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
	802.11ax HE80/RU26	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
		122	5610	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	149	5745	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		153	5765	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		157	5785	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		161	5805	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		165	5825	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE40/RU26	151	5755	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
		159	5795	21.50	18.00	21.50	20.25	21.50	12.50	17.50	16.00
	802.11ax HE80/RU26	155	5775	20.00	18.00	20.00	20.00	20.00	12.50	17.50	16.00

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				21.50	21.50	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		20.00	20.00	
				138	5690	21.50	21.50		20.00	20.00	
		I-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	18.00	18.00	Yes
	ANT6	U-NII-1	802.11n HT40	38	5190	17.50	17.50	Yes	17.50	17.50	Yes
				46	5230	21.50	21.50		21.50	21.50	
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	16.50	16.50	Yes
				122	5610	20.00	20.00		18.75	18.75	
				138	5690	21.50	21.50		18.75	18.75	
		I-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	20.25	20.25	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				17.00	17.00	Yes
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	14.75	14.75	Yes
				122	5610	21.50	21.50		14.75	14.75	
				138	5690	21.50	21.50		14.75	14.75	
	U-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	12.50	12.50	Yes	
	ANT6	U-NII-1	802.11n/ac HT40	38	5190	17.50	17.50	Yes	17.50	17.50	Yes
				46	5230	20.75	20.75		17.75	17.75	
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	14.50	14.50	Yes
				122	5610	17.00	17.00		14.50	14.50	
				138	5690	17.00	17.00		14.50	14.50	
		U-NII-3	802.11ac VHT80	155	5775	17.50	17.50	Yes	16.00	16.00	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 <1.6W/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.

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	9.00	19.50	15.00	12.50	13.00	19.50	18.50	16.00	16.50
EDR	11.00	11.00	8.50	9.00	16.00	15.00	12.50	13.00	16.00	16.00	16.00	16.00
LE	11.00	11.00	8.50	9.00	19.50	15.00	12.50	13.00	19.50	18.50	16.00	16.50
HDR	11.00	11.00	8.50	9.00	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	9.00	9.00	Yes
			39	2441	8.50	8.50		9.00	9.00	
			78	2480	8.50	8.50		9.00	9.00	
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	13.00	13.00	Yes
			39	2441	12.50	12.50		13.00	13.00	
			78	2480	12.50	12.50		13.00	13.00	
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	16.50	16.50	Yes
			39	2441	16.00	16.00		16.50	16.50	
			78	2480	16.00	16.00		16.50	16.50	

Duty Factor Measured Results

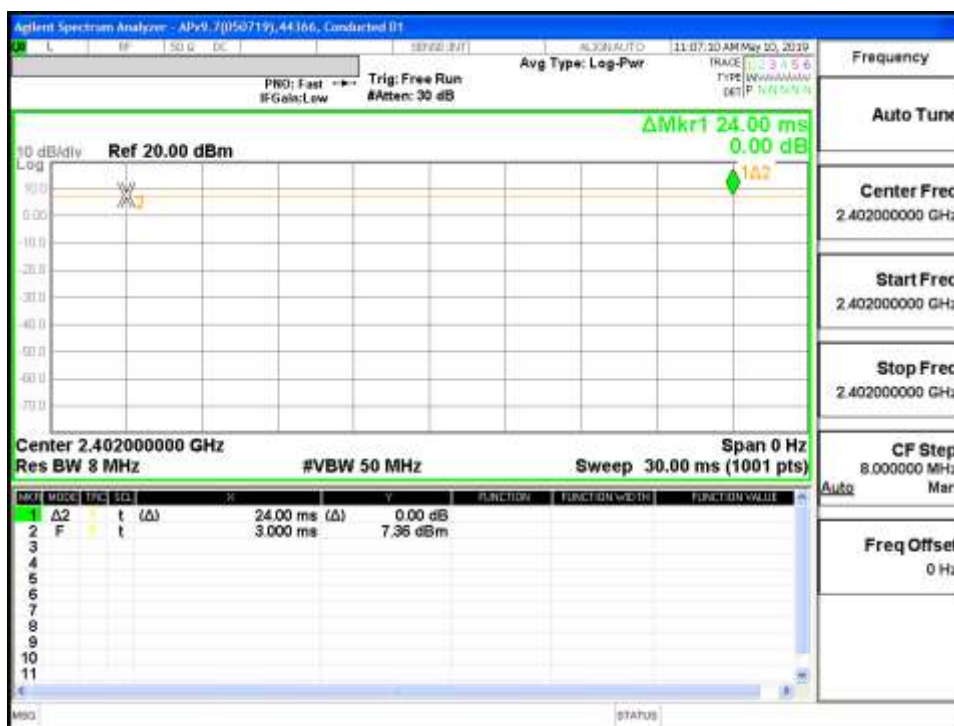
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

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 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	32.00	0.229	0.243	0.176	0.186	1
					Left Tilt	190	836.6	32.25	32.00	0.145	0.154	0.112	0.119	
					Right Touch	190	836.6	32.25	32.00	0.252	0.267	0.197	0.209	
					Right Tilt	190	836.6	32.25	32.00	0.144	0.153	0.113	0.120	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	32.25	32.00	0.654	0.693	0.401	0.425	2
					Front	190	836.6	32.25	32.00	0.301	0.319	0.199	0.211	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	32.25	32.00	0.545	0.577	0.349	0.370	
					Edge 3	190	836.6	32.25	32.00	0.200	0.212	0.102	0.108	
					Edge 4	190	836.6	32.25	32.00	0.241	0.255	0.155	0.164	
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	30.50	0.342	0.362	0.253	0.268	3
					Left Tilt	190	836.6	30.75	30.50	0.208	0.220	0.137	0.145	
					Right Touch	190	836.6	30.75	30.50	0.542	0.574	0.375	0.397	
					Right Tilt	190	836.6	30.75	30.50	0.319	0.338	0.187	0.198	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	30.75	30.50	0.308	0.326	0.174	0.184	4
					Front	190	836.6	30.75	30.50	0.196	0.208	0.129	0.137	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	30.75	30.50	0.087	0.092	0.048	0.051	
					Edge 2	190	836.6	30.75	30.50	0.273	0.289	0.175	0.185	
					Edge 4	190	836.6	30.75	30.50	0.380	0.403	0.243	0.257	5

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	30.32	0.104	0.115	0.067	0.074	6
					Left Tilt	661	1880.0	30.75	30.32	0.089	0.098	0.049	0.054	
					Right Touch	661	1880.0	30.75	30.32	0.194	0.214	0.120	0.132	
					Right Tilt	661	1880.0	30.75	30.32	0.073	0.081	0.044	0.048	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	27.75	27.60	0.514	0.532	0.257	0.266	7
					Front	661	1880.0	27.75	27.60	0.359	0.372	0.198	0.205	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	512	1850.2	27.75	27.75	0.829	0.829	0.391	0.391	8
						661	1880.0	27.75	27.60	0.858	0.888	0.393	0.407	
						810	1909.8	27.75	27.50	0.837	0.887	0.377	0.399	
					Edge 3	661	1880.0	27.75	27.60	0.335	0.347	0.147	0.152	
					Edge 4	661	1880.0	27.75	27.60	0.034	0.036	0.018	0.018	
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	26.50	26.20	0.276	0.296	0.169	0.181	
					Left Tilt	661	1880.0	26.50	26.20	0.243	0.260	0.122	0.131	
					Right Touch	661	1880.0	26.50	26.20	0.721	0.773	0.389	0.417	
					Right Tilt	512	1850.2	26.50	26.20	0.778	0.834	0.364	0.390	
						661	1880.0	26.50	26.20	0.780	0.836	0.367	0.393	
						810	1909.8	26.50	26.20	0.797	0.854	0.376	0.403	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	25.50	25.40	0.842	0.862	0.395	0.404	10
						661	1880.0	25.50	25.30	0.798	0.836	0.374	0.392	
						810	1909.8	25.50	25.00	0.695	0.780	0.323	0.362	
	Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880.0	25.50	25.30	0.233	0.244	0.116	0.121	
					Edge 1	661	1880.0	25.50	25.30	0.285	0.298	0.116	0.121	
					Edge 2	661	1880.0	25.50	25.30	0.019	0.020	0.009	0.010	
					Edge 4	661	1880.0	25.50	25.30	0.283	0.296	0.140	0.147	
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	30.61	0.214	0.234	0.134	0.147	11
					Left Tilt	661	1880.0	31.00	30.61	0.084	0.092	0.052	0.056	
					Right Touch	661	1880.0	31.00	30.61	0.123	0.135	0.081	0.089	
					Right Tilt	661	1880.0	31.00	30.61	0.084	0.092	0.046	0.050	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	25.75	25.30	0.805	0.893	0.401	0.445	12
						661	1880.0	25.75	25.40	0.845	0.916	0.412	0.447	
						810	1909.8	25.75	25.40	0.858	0.930	0.413	0.448	
	Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880.0	25.75	25.40	0.432	0.468	0.234	0.254	
					Edge 3	661	1880.0	25.75	25.40	0.327	0.354	0.175	0.190	
					Edge 4	661	1880.0	25.75	25.40	0.455	0.493	0.241	0.261	
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	25.00	24.60	0.782	0.857	0.403	0.442	13
						661	1880.0	25.00	24.80	0.858	0.898	0.433	0.453	
						810	1909.8	25.00	24.90	0.876	0.896	0.439	0.449	
					Left Tilt	661	1880.0	25.00	24.80	0.315	0.330	0.155	0.162	
					Right Touch	661	1880.0	25.00	24.80	0.198	0.207	0.112	0.117	
					Right Tilt	661	1880.0	25.00	24.80	0.135	0.141	0.070	0.073	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	26.00	25.80	0.225	0.236	0.110	0.115	14
					Front	661	1880.0	26.00	25.80	0.202	0.212	0.107	0.112	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	26.00	25.80	0.171	0.179	0.082	0.086	
					Edge 2	512	1850.2	26.00	25.80	0.720	0.754	0.341	0.357	
						661	1880.0	26.00	25.80	0.790	0.827	0.372	0.390	
						810	1909.8	26.00	25.80	0.838	0.877	0.393	0.412	15

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	25.50	0.274	0.287	0.176	0.184	16
					Left Tilt	9400	1880.0	25.70	25.50	0.230	0.241	0.135	0.141	
					Right Touch	9400	1880.0	25.70	25.50	0.536	0.561	0.327	0.342	
					Right Tilt	9400	1880.0	25.70	25.50	0.183	0.192	0.113	0.118	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	21.75	21.75	0.744	0.744	0.348	0.348	17
						9400	1880.0	21.75	21.75	0.831	0.831	0.382	0.382	
						9538	1907.6	21.75	21.75	0.824	0.824	0.370	0.370	
					Front	9400	1880.0	21.75	21.75	0.385	0.385	0.214	0.214	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9262	1852.4	21.75	21.75	0.895	0.895	0.415	0.415	18
						9400	1880.0	21.75	21.75	0.920	0.920	0.423	0.423	
						9538	1907.6	21.75	21.75	0.935	0.935	0.414	0.414	
					Edge 3	9400	1880.0	21.75	21.75	0.521	0.521	0.229	0.229	
					Edge 4	9400	1880.0	21.75	21.75	0.046	0.046	0.024	0.024	
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	20.50	20.30	0.245	0.257	0.136	0.142	19
					Left Tilt	9400	1880.0	20.50	20.30	0.279	0.292	0.138	0.145	
					Right Touch	9262	1852.4	20.50	20.50	0.852	0.852	0.443	0.443	
						9400	1880.0	20.50	20.30	0.858	0.898	0.447	0.468	
						9538	1907.6	20.50	20.30	0.634	0.664	0.330	0.346	
					Right Tilt	9262	1852.4	20.50	20.50	0.887	0.887	0.401	0.401	
						9400	1880.0	20.50	20.30	0.766	0.802	0.340	0.356	
						9538	1907.6	20.50	20.30	0.607	0.636	0.273	0.286	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	18.50	18.30	0.841	0.881	0.369	0.386	20
						9400	1880.0	18.50	18.10	0.755	0.828	0.331	0.363	
						9538	1907.6	18.50	18.00	0.608	0.682	0.265	0.297	
					Front	9400	1880.0	18.50	18.10	0.230	0.252	0.118	0.129	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	18.50	18.10	0.358	0.393	0.145	0.159	
					Edge 2	9400	1880.0	18.50	18.10	0.037	0.041	0.018	0.020	
					Edge 4	9400	1880.0	18.50	18.10	0.285	0.312	0.145	0.159	
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	24.90	0.532	0.544	0.324	0.332	21
					Left Tilt	9400	1880.0	25.00	24.90	0.248	0.254	0.151	0.155	
					Right Touch	9400	1880.0	25.00	24.90	0.271	0.277	0.176	0.180	
					Right Tilt	9400	1880.0	25.00	24.90	0.233	0.238	0.127	0.130	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	19.75	19.58	0.852	0.885	0.412	0.428	22
						9400	1880.0	19.75	19.50	0.916	0.970	0.437	0.463	
						9538	1907.6	19.75	19.36	0.850	0.930	0.400	0.438	
					Front	9400	1880.0	19.75	19.50	0.396	0.419	0.214	0.227	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	9400	1880.0	19.75	19.50	0.315	0.334	0.169	0.179	
					Edge 4	9400	1880.0	19.75	19.50	0.423	0.448	0.244	0.258	
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	18.75	18.41	0.655	0.709	0.335	0.363	23
						9400	1880.0	18.75	18.38	0.769	0.837	0.391	0.425	
						9538	1907.6	18.75	18.31	0.792	0.876	0.400	0.443	
					Left Tilt	9400	1880.0	18.75	18.38	0.560	0.609	0.266	0.289	
					Right Touch	9400	1880.0	18.75	18.38	0.237	0.258	0.140	0.152	
					Right Tilt	9400	1880.0	18.75	18.38	0.195	0.212	0.102	0.111	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	20.00	19.70	0.606	0.649	0.289	0.310	24
					Front	9400	1880.0	20.00	19.70	0.443	0.475	0.229	0.245	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	20.00	19.70	0.324	0.347	0.150	0.161	
					Edge 2	9262	1852.4	20.00	19.50	0.646	0.725	0.298	0.334	
						9400	1880.0	20.00	19.70	0.770	0.825	0.357	0.383	
						9538	1907.6	20.00	19.60	0.796	0.873	0.366	0.401	25

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	25.25	0.127	0.141	0.086	0.095	26
					Left Tilt	1413	1732.6	25.70	25.25	0.123	0.136	0.077	0.085	
					Right Touch	1413	1732.6	25.70	25.25	0.315	0.349	0.197	0.219	
					Right Tilt	1413	1732.6	25.70	25.25	0.112	0.124	0.074	0.082	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	18.00	18.00	0.437	0.437	0.221	0.221	27
					Front	1413	1732.6	18.00	18.00	0.365	0.365	0.176	0.176	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	18.00	18.00	0.144	0.144	0.079	0.079	28
					Edge 3	1312	1712.4	18.00	18.00	0.830	0.830	0.380	0.380	
						1413	1732.6	18.00	18.00	0.947	0.947	0.425	0.425	
					Edge 4	1413	1732.6	18.00	18.00	0.944	0.944	0.414	0.414	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	22.00	21.92	0.271	0.276	0.145	0.148	29
					Left Tilt	1413	1732.6	22.00	21.92	0.319	0.325	0.161	0.164	
					Right Touch	1312	1712.4	22.00	21.94	0.864	0.876	0.424	0.430	
						1413	1732.6	22.00	21.92	0.855	0.872	0.420	0.428	
						1513	1752.6	22.00	22.00	0.879	0.879	0.429	0.429	
					Right Tilt	1312	1712.4	22.00	21.94	0.862	0.874	0.397	0.402	
						1413	1732.6	22.00	21.92	0.826	0.842	0.384	0.391	
						1513	1752.6	22.00	22.00	0.860	0.860	0.393	0.393	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	20.00	19.95	0.842	0.852	0.382	0.386	30
						1413	1732.6	20.00	19.85	0.812	0.841	0.364	0.377	
						1513	1752.6	20.00	19.89	0.865	0.887	0.376	0.386	
ANT3	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	25.00	24.90	0.396	0.405	0.253	0.259	31
					Left Tilt	1413	1732.6	25.00	24.90	0.202	0.207	0.123	0.126	
					Right Touch	1413	1732.6	25.00	24.90	0.208	0.213	0.137	0.140	
					Right Tilt	1413	1732.6	25.00	24.90	0.129	0.132	0.079	0.080	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.75	21.25	0.678	0.761	0.351	0.394	32
						1413	1732.6	21.75	21.30	0.738	0.819	0.387	0.429	
						1513	1752.6	21.75	21.40	0.840	0.910	0.431	0.467	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Front	1413	1732.6	21.75	21.30	0.464	0.515	0.266	0.295	33
					Edge 3	1413	1732.6	21.75	21.30	0.195	0.216	0.095	0.106	
					Edge 4	1413	1732.6	21.75	21.30	0.555	0.616	0.296	0.328	
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1312	1712.4	21.00	20.89	0.724	0.743	0.377	0.387	34
						1413	1732.6	21.00	20.95	0.853	0.863	0.434	0.439	
						1513	1752.6	21.00	21.00	0.878	0.878	0.480	0.480	
					Left Tilt	1413	1732.6	21.00	20.95	0.598	0.605	0.285	0.288	
					Right Touch	1413	1732.6	21.00	20.95	0.233	0.236	0.127	0.128	
					RightTilt	1413	1732.6	21.00	20.95	0.223	0.226	0.120	0.121	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	22.25	21.85	0.676	0.741	0.334	0.366	35
					Front	1413	1732.6	22.25	21.85	0.422	0.463	0.222	0.243	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	22.25	21.85	0.367	0.402	0.172	0.189	36
					Edge 2	1312	1712.4	22.25	21.75	0.779	0.874	0.356	0.399	
						1413	1732.6	22.25	21.85	0.799	0.876	0.373	0.409	
					Edge 3	1513	1752.6	22.25	21.95	0.824	0.883	0.389	0.417	

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	25.60	0.227	0.232	0.176	0.180	
					Left Tilt	4183	836.6	25.70	25.60	0.130	0.133	0.100	0.102	
					Right Touch	4183	836.6	25.70	25.60	0.115	0.118	0.089	0.091	
					RightTilt	4183	836.6	25.70	25.60	0.240	0.246	0.185	0.189	36
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.70	25.60	0.616	0.630	0.380	0.389	37
					Front	4183	836.6	25.70	25.60	0.295	0.302	0.192	0.196	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.70	25.60	0.492	0.503	0.320	0.327	
					Edge 3	4183	836.6	25.70	25.60	0.178	0.182	0.097	0.099	
					Edge 4	4183	836.6	25.70	25.60	0.221	0.226	0.143	0.146	
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	24.46	0.323	0.326	0.246	0.248	
					Left Tilt	4183	836.6	24.50	24.46	0.229	0.231	0.146	0.147	
					Right Touch	4183	836.6	24.50	24.46	0.456	0.460	0.310	0.313	38
					Right Tilt	4183	836.6	24.50	24.46	0.308	0.311	0.179	0.181	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.50	24.46	0.335	0.338	0.191	0.193	39
					Front	4183	836.6	24.50	24.46	0.223	0.225	0.147	0.148	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.50	24.46	0.099	0.100	0.055	0.056	
					Edge 2	4183	836.6	24.50	24.46	0.183	0.185	0.118	0.119	
					Edge 4	4183	836.6	24.50	24.46	0.349	0.352	0.225	0.227	40

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	25.44	0.254	0.270	0.191	0.203	
					Left Tilt	384	836.5	25.70	25.44	0.178	0.189	0.138	0.147	
					Right Touch	384	836.5	25.70	25.44	0.289	0.307	0.215	0.228	41
					Right Tilt	384	836.5	25.70	25.44	0.172	0.183	0.132	0.140	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.70	25.53	0.243	0.253	0.183	0.190	
					Left Tilt	384	836.5	25.70	25.53	0.144	0.150	0.111	0.115	
					Right Touch	384	836.5	25.70	25.53	0.280	0.291	0.205	0.213	
					Right Tilt	384	836.5	25.70	25.53	0.148	0.154	0.113	0.118	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.70	25.53	0.623	0.648	0.377	0.392	42
					Front	384	836.5	25.70	25.53	0.430	0.447	0.267	0.278	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.70	25.53	0.716	0.745	0.447	0.465	43
					Edge 3	384	836.5	25.70	25.53	0.213	0.222	0.108	0.112	
					Edge 4	384	836.5	25.70	25.53	0.300	0.312	0.188	0.196	
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	24.33	0.399	0.415	0.295	0.307	
					Left Tilt	384	836.5	24.50	24.33	0.306	0.318	0.196	0.204	
					Right Touch	384	836.5	24.50	24.33	0.500	0.520	0.348	0.362	
					Right Tilt	384	836.5	24.50	24.33	0.421	0.438	0.235	0.244	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	24.50	24.50	0.442	0.442	0.319	0.319	
					Left Tilt	384	836.5	24.50	24.50	0.269	0.269	0.169	0.169	
					Right Touch	384	836.5	24.50	24.50	0.536	0.536	0.348	0.348	44
					Right Tilt	384	836.5	24.50	24.50	0.330	0.330	0.189	0.189	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	24.50	24.50	0.394	0.394	0.226	0.226	45
					Front	384	836.5	24.50	24.50	0.240	0.240	0.156	0.156	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	24.50	24.50	0.112	0.112	0.061	0.061	
					Edge 2	384	836.5	24.50	24.50	0.215	0.215	0.137	0.137	
					Edge 4	384	836.5	24.50	24.50	0.415	0.415	0.264	0.264	46

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	25.41	0.281	0.300	0.183	0.196	47
					Left Tilt	600	1880.0	25.70	25.41	0.220	0.235	0.132	0.141	
					Right Touch	600	1880.0	25.70	25.41	0.712	0.761	0.420	0.449	
					Right Tilt	600	1880.0	25.70	25.41	0.203	0.217	0.128	0.137	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.70	25.40	0.235	0.252	0.155	0.166	
					Left Tilt	600	1880.0	25.70	25.40	0.214	0.229	0.126	0.135	
					Right Touch	600	1880.0	25.70	25.40	0.541	0.580	0.331	0.355	
					Right Tilt	600	1880.0	25.70	25.40	0.184	0.197	0.114	0.122	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	21.75	21.70	0.816	0.825	0.418	0.423	
						600	1880.0	21.75	21.60	0.822	0.851	0.423	0.438	
						1175	1908.8	21.75	21.60	0.864	0.894	0.442	0.458	
					Front	600	1880.0	21.75	21.60	0.504	0.522	0.262	0.271	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	25	1851.3	21.75	21.70	0.858	0.868	0.414	0.419	
						600	1880.0	21.75	21.60	0.857	0.887	0.415	0.430	
						1175	1908.8	21.75	21.60	0.946	0.979	0.442	0.458	
					Edge 3	600	1880.0	21.75	21.60	0.491	0.508	0.223	0.231	
					Edge 4	600	1880.0	21.75	21.60	0.054	0.056	0.028	0.029	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	600	1880.0	20.50	20.25	0.222	0.235	0.137	0.145	
					Left Tilt	600	1880.0	20.50	20.25	0.213	0.226	0.104	0.110	
					Right Touch	25	1851.3	20.50	20.50	0.873	0.873	0.456	0.456	
						600	1880.0	20.50	20.25	0.761	0.806	0.399	0.423	
						1175	1908.8	20.50	20.00	0.646	0.725	0.341	0.383	
					Right Tilt	600	1880.0	20.50	20.25	0.749	0.793	0.343	0.363	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	20.50	20.25	0.213	0.226	0.126	0.133	50
					Left Tilt	600	1880.0	20.50	20.25	0.196	0.208	0.102	0.108	
					Right Touch	25	1851.3	20.50	20.50	0.886	0.886	0.459	0.459	
						600	1880.0	20.50	20.25	0.776	0.822	0.412	0.436	
						1175	1908.8	20.50	20.00	0.638	0.716	0.342	0.384	
					Right Tilt	600	1880.0	20.50	20.25	0.714	0.756	0.331	0.351	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	18.50	18.50	0.890	0.890	0.412	0.412	51
						600	1880.0	18.50	18.20	0.818	0.877	0.378	0.405	
						1175	1908.8	18.50	18.00	0.696	0.781	0.324	0.364	
					Front	600	1880.0	18.50	18.20	0.286	0.306	0.148	0.159	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	600	1880.0	18.50	18.20	0.102	0.109	0.054	0.058	
					Edge 2	600	1880.0	18.50	18.20	0.047	0.051	0.025	0.026	
					Edge 4	600	1880.0	18.50	18.20	0.304	0.326	0.158	0.169	
						600	1880.0	18.50	18.20	0.304	0.326	0.158	0.169	

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	25.37	0.206	0.222	0.155	0.167	52
					Left Tilt	560	820.0	25.70	25.37	0.143	0.154	0.109	0.118	
					Right Touch	560	820.0	25.70	25.37	0.256	0.276	0.192	0.207	
					Right Tilt	560	820.0	25.70	25.37	0.179	0.193	0.136	0.147	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.70	25.45	0.208	0.220	0.157	0.166	
					Left Tilt	560	820.0	25.70	25.45	0.152	0.161	0.116	0.123	
					Right Touch	560	820.0	25.70	25.45	0.240	0.254	0.183	0.194	
					Right Tilt	560	820.0	25.70	25.45	0.159	0.168	0.121	0.128	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.70	25.42	0.523	0.558	0.319	0.340	53
					Front	560	820.0	25.70	25.42	0.262	0.279	0.170	0.181	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.70	25.42	0.223	0.238	0.141	0.150	
					Edge 3	560	820.0	25.70	25.42	0.167	0.178	0.087	0.093	
					Edge 4	560	820.0	25.70	25.42	0.338	0.361	0.216	0.230	
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	24.50	0.327	0.327	0.242	0.242	54
					Left Tilt	560	820.0	24.50	24.50	0.212	0.212	0.131	0.131	
					Right Touch	560	820.0	24.50	24.50	0.388	0.388	0.269	0.269	
					Right Tilt	560	820.0	24.50	24.50	0.299	0.299	0.170	0.170	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	24.50	24.50	0.298	0.298	0.221	0.221	
					Left Tilt	560	820.0	24.50	24.50	0.216	0.216	0.138	0.138	
					Right Touch	560	820.0	24.50	24.50	0.365	0.365	0.232	0.232	
					Right Tilt	560	820.0	24.50	24.50	0.278	0.278	0.159	0.159	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	24.50	24.50	0.332	0.332	0.193	0.193	55
					Front	560	820.0	24.50	24.50	0.198	0.198	0.131	0.131	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	24.50	24.50	0.083	0.083	0.046	0.046	
					Edge 2	560	820.0	24.50	24.50	0.167	0.167	0.107	0.107	
					Edge 4	560	820.0	24.50	24.50	0.308	0.308	0.198	0.198	

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	25.20	0.252	0.283	0.195	0.219	56
								25	12	24.70	24.20	0.188	0.211	0.147	0.165	
					Left Tilt	20525	836.5	1	25	25.70	25.20	0.144	0.162	0.112	0.126	
								25	12	24.70	24.20	0.107	0.120	0.084	0.094	
					Right Touch	20525	836.5	1	25	25.70	25.20	0.203	0.228	0.160	0.180	
								25	12	24.70	24.20	0.168	0.188	0.130	0.146	
					Right Tilt	20525	836.5	1	25	25.70	25.20	0.137	0.154	0.107	0.120	
								25	12	24.70	24.20	0.104	0.117	0.081	0.091	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	25.70	25.20	0.625	0.701	0.383	0.430	57
								25	12	24.70	24.20	0.497	0.558	0.304	0.341	
					Front	20525	836.5	1	25	25.70	25.20	0.306	0.343	0.197	0.221	
								25	12	24.70	24.20	0.244	0.274	0.157	0.176	
	Hotspot	QPSK	Mode B	5	Edge 2	20525	836.5	1	25	25.70	25.20	0.477	0.535	0.306	0.343	
								25	12	24.70	24.20	0.384	0.431	0.246	0.276	
					Edge 3	20525	836.5	1	25	25.70	25.20	0.170	0.191	0.087	0.098	
								25	12	24.70	24.20	0.145	0.163	0.074	0.083	
					Edge 4	20525	836.5	1	25	25.70	25.20	0.223	0.250	0.142	0.159	
								25	12	24.70	24.20	0.178	0.200	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	
ANT2	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	24.50	24.30	0.389	0.407	0.291	0.305	
								25	12	23.50	23.30	0.309	0.324	0.225	0.236	
					Left Tilt	20525	836.5	1	25	24.50	24.30	0.250	0.262	0.168	0.176	
								25	12	23.50	23.30	0.200	0.209	0.137	0.143	
					Right Touch	20525	836.5	1	25	24.50	24.30	0.558	0.584	0.387	0.405	58
								25	12	23.50	23.30	0.415	0.435	0.289	0.303	
					Right Tilt	20525	836.5	1	25	24.50	24.30	0.369	0.386	0.213	0.223	
								25	12	23.50	23.30	0.286	0.299	0.164	0.172	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	24.50	24.30	0.395	0.414	0.224	0.235	59
								25	12	23.50	23.30	0.311	0.326	0.177	0.185	
					Front	20525	836.5	1	25	24.50	24.30	0.231	0.242	0.150	0.157	
								25	12	23.50	23.30	0.181	0.190	0.118	0.124	
	Hotspot	QPSK	Mode B	5	Edge 1	20525	836.5	1	25	24.50	24.30	0.114	0.119	0.063	0.066	
								25	12	23.50	23.30	0.085	0.089	0.047	0.049	
					Edge 2	20525	836.5	1	25	24.50	24.30	0.189	0.198	0.121	0.127	
								25	12	23.50	23.30	0.152	0.159	0.097	0.102	
					Edge 4	20525	836.5	1	25	24.50	24.30	0.430	0.450	0.275	0.288	60
								25	12	23.50	23.30	0.335	0.351	0.213	0.223	

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	Left Touch	20525	836.5	1	49	20599	843.9	1	0	25.00	24.80	0.200	0.209	0.150	0.157	
ANT 1	Body	QPSK	Mode B	5	Rear	20525	836.5	1	49	20599	843.9	1	0	25.00	24.89	0.525	0.538	0.322	0.330	
ANT 2	Head	QPSK	Mode A	0	Right Touch	20525	836.5	1	49	20599	843.9	1	0	23.50	23.36	0.420	0.434	0.289	0.298	
ANT 2	Body	QPSK	Mode B	5	Rear	20525	836.5	1	49	20599	843.9	1	0	23.50	23.33	0.287	0.298	0.163	0.170	
ANT 2	Hotspot	QPSK	Mode B	5	Edge 4	20525	836.5	1	49	20599	843.9	1	0	23.50	23.33	0.278	0.289	0.175	0.182	

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	25.30	0.140	0.154	0.078	0.086						
								50	24	24.70	24.30	0.107	0.117	0.062	0.067						
					Left Tilt	21100	2535.0	1	49	25.70	25.30	0.210	0.230	0.093	0.102						
								50	24	24.70	24.30	0.167	0.183	0.075	0.082						
					Right Touch	21100	2535.0	1	49	25.70	25.30	0.292	0.320	0.160	0.175	61					
								50	24	24.70	24.30	0.210	0.230	0.112	0.123						
					Right Tilt	21100	2535.0	1	49	25.70	25.30	0.169	0.185	0.072	0.079						
								50	24	24.70	24.30	0.134	0.147	0.057	0.062						
					Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	21.75	21.55	0.654	0.685	0.272	0.285	62	
												50	24	21.75	21.70	0.665	0.673	0.274	0.277		
	Front	21100	2535.0	1					49	21.75	21.55	0.488	0.511	0.218	0.228						
				50					24	21.75	21.70	0.487	0.493	0.217	0.220						
	Hotspot	QPSK	Mode B	5					Edge 2	21100	2535.0	1	49	21.75	21.55	0.468	0.490	0.216	0.226		
												50	24	21.75	21.70	0.475	0.481	0.214	0.216		
									Edge 3	20850	2510.0	1	49	21.75	21.65	0.911	0.932	0.346	0.354	63	
												50	24	21.75	21.65	0.888	0.909	0.330	0.338		
					21100	2535.0	1	49		21.75	21.55	0.870	0.911	0.332	0.348						
							50	24		21.75	21.70	0.883	0.893	0.331	0.335						
					21350	2560.0	100	0		21.75	21.55	0.856	0.896	0.322	0.337						
							1	49		21.75	21.70	0.836	0.846	0.315	0.319						
					Edge 4	21100	2535.0	50	24	21.75	21.60	0.824	0.853	0.312	0.323						
								1	49	21.75	21.55	0.085	0.089	0.042	0.044						
												50	24	21.75	21.70	0.084	0.085	0.027	0.027		
					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	18.75	18.55	0.456	0.477	0.202	0.212	
													50	24	18.75	18.55	0.459	0.481	0.203	0.213	
	Left Tilt	20850	2510.0	1						49	18.75	18.68	0.820	0.833	0.332	0.337					
				50						24	18.75	18.71	0.825	0.833	0.334	0.337					
		21100	2535.0	1						49	18.75	18.55	0.794	0.831	0.321	0.336					
				50						24	18.75	18.55	0.795	0.832	0.321	0.336					
		21350	2560.0	100						0	18.75	18.55	0.800	0.838	0.322	0.337					
				1						49	18.75	18.45	0.762	0.816	0.307	0.329					
Right Touch	21100	2535.0	50	24						18.75	18.45	0.757	0.811	0.303	0.325						
			1	49						18.75	18.55	0.488	0.511	0.195	0.204						
Right Tilt	20850	2510.0	50	24						18.75	18.55	0.528	0.553	0.208	0.218						
			1	49						18.75	18.68	0.875	0.889	0.332	0.337		64				
	21100	2535.0	50	24						18.75	18.71	0.880	0.888	0.333	0.336						
			1	49						18.75	18.55	0.819	0.858	0.326	0.341						
	21350	2560.0	50	24						18.75	18.55	0.807	0.845	0.306	0.320						
			100	0						18.75	18.55	0.813	0.851	0.309	0.324						
Body & Hotspot	QPSK	Mode B	5	Rear						20850	2510.0	1	49	20.50	20.40	0.864	0.884	0.380	0.389		
												50	24	20.50	20.30	0.784	0.821	0.331	0.347		
										21100	2535.0	1	49	20.50	20.20	0.739	0.792	0.338	0.362		
												50	24	20.50	20.20	0.749	0.803	0.343	0.368		
						21350	2560.0	100	0	20.50	20.20	0.830	0.889	0.374	0.401	65					
								1	49	20.50	20.10	0.691	0.758	0.275	0.302						
				Front		21100	2535.0	50	24	20.50	20.10	0.641	0.703	0.276	0.303						
								1	49	20.50	20.20	0.445	0.477	0.182	0.195						
				Hotspot		QPSK	Mode B	5	Edge 1	21100	2535.0	50	24	20.50	20.20	0.437	0.468	0.180	0.193		
												1	49	20.50	20.20	0.705	0.755	0.242	0.259		66
Edge 2	21100	2535.0	1						49	20.50	20.20	0.079	0.085	0.035	0.038						
			50						24	20.50	20.20	0.082	0.088	0.037	0.040						
Edge 4	21100	2535.0	1						49	20.50	20.20	0.465	0.498	0.216	0.231						
			50						24	20.50	20.20	0.453	0.485	0.212	0.227						

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	24.94	0.402	0.408	0.208	0.211	67
								50	24	24.00	23.98	0.317	0.318	0.165	0.166	
					Left Tilt	21100	2535.0	1	49	25.00	24.94	0.105	0.106	0.053	0.054	
								50	24	24.00	23.98	0.082	0.082	0.042	0.042	
					Right Touch	21100	2535.0	1	49	25.00	24.94	0.192	0.195	0.107	0.108	
								50	24	24.00	23.98	0.154	0.155	0.086	0.086	
					Right Tilt	21100	2535.0	1	49	25.00	24.94	0.155	0.157	0.074	0.075	
								50	24	24.00	23.98	0.117	0.118	0.056	0.056	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	21.75	21.40	0.905	0.981	0.379	0.411	
								50	24	21.75	21.30	0.894	0.992	0.378	0.419	68
						21100	2535.0	1	49	21.75	21.60	0.853	0.883	0.361	0.374	
								50	24	21.75	21.60	0.858	0.888	0.358	0.371	
						21350	2560.0	1	49	21.75	21.70	0.859	0.869	0.369	0.373	
								50	24	21.75	21.70	0.871	0.881	0.368	0.372	
					Front	21100	2535.0	1	49	21.75	21.60	0.536	0.555	0.246	0.255	
								50	24	21.75	21.60	0.544	0.563	0.248	0.257	
					Hotspot	21100	2535.0	1	49	21.75	21.60	0.393	0.407	0.158	0.164	
								50	24	21.75	21.60	0.366	0.379	0.185	0.192	
						21100	2535.0	1	49	21.75	21.60	0.580	0.600	0.234	0.242	
								50	24	21.75	21.60	0.625	0.647	0.247	0.256	
ANT4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	49	17.00	17.00	0.854	0.854	0.399	0.399	
								50	24	17.00	16.90	0.844	0.864	0.392	0.401	
						21100	2535.0	1	49	17.00	16.60	0.809	0.887	0.374	0.410	69
								50	24	17.00	16.60	0.802	0.879	0.385	0.422	
						21350	2560.0	1	49	17.00	16.60	0.775	0.850	0.355	0.389	
								50	24	17.00	16.60	0.774	0.849	0.366	0.401	
					Left Tilt	21100	2535.0	1	49	17.00	16.60	0.494	0.542	0.237	0.260	
								50	24	17.00	16.60	0.496	0.544	0.240	0.263	
					Right Touch	21100	2535.0	1	49	17.00	16.60	0.629	0.690	0.326	0.357	
								50	24	17.00	16.60	0.510	0.559	0.265	0.291	
					Right Tilt	21100	2535.0	1	49	17.00	16.60	0.470	0.515	0.235	0.258	
								50	24	17.00	16.60	0.377	0.413	0.189	0.207	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	18.25	18.11	0.812	0.839	0.382	0.395	70
								50	24	18.25	18.12	0.811	0.836	0.382	0.394	
						21100	2535.0	1	49	18.25	18.18	0.808	0.821	0.374	0.380	
								50	24	18.25	18.17	0.799	0.814	0.370	0.377	
						21350	2560.0	1	49	18.25	18.10	0.798	0.826	0.370	0.383	
								50	24	18.25	18.05	0.728	0.762	0.340	0.356	
					Front	21100	2535.0	1	49	18.25	18.04	0.740	0.777	0.346	0.363	
								50	24	18.25	18.17	0.389	0.396	0.205	0.209	
					Edge 1	21100	2535.0	1	49	18.25	18.18	0.142	0.144	0.070	0.071	
								50	24	18.25	18.17	0.083	0.085	0.027	0.028	
	Hotspot	QPSK	Mode B	5	Edge 2	21100	2535.0	1	49	18.25	18.18	0.599	0.609	0.249	0.253	
								50	24	18.25	18.17	0.602	0.613	0.295	0.300	

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	24.97	0.264	0.266	0.143	0.144	
ANT 1	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	21.75	21.70	0.636	0.643	0.257	0.260	
ANT 1	Hotspot	QPSK	Mode B	5	Edge 3	20850	2510.0	1	99	21048	2529.8	1	0	21.75	21.70	0.858	0.868	0.313	0.317	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	20850	2510.0	1	99	21048	2529.8	1	0	18.75	18.75	0.710	0.710	0.262	0.262	
ANT 2	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	20.50	20.25	0.630	0.667	0.270	0.286	
ANT 3	Head	QPSK	Mode B	0	Left Touch	21100	2535.0	1	99	21298	2554.8	1	0	24.50	24.15	0.353	0.383	0.226	0.245	
ANT 3	Body	QPSK	Mode B	5	Rear	21100	2535.0	1	99	21298	2554.8	1	0	21.75	21.40	0.729	0.790	0.321	0.348	
ANT 4	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	99	21298	2554.8	1	0	17.00	16.87	0.716	0.738	0.378	0.389	
ANT 4	Body	QPSK	Mode B	0	Rear	20850	2510.0	1	99	21048	2529.8	1	0	18.25	18.01	0.73	0.775	0.346	0.366	

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	25.50	0.155	0.162	0.117	0.123	
								25	12	24.70	24.60	0.129	0.132	0.095	0.097	
					Left Tilt	23095	707.5	1	25	25.70	25.50	0.093	0.097	0.072	0.075	
								25	12	24.70	24.60	0.073	0.075	0.057	0.058	
					Right Touch	23095	707.5	1	25	25.70	25.50	0.189	0.198	0.145	0.152	71
								25	12	24.70	24.60	0.150	0.153	0.115	0.118	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23095	707.5	1	25	25.70	25.50	0.081	0.085	0.064	0.067	
								25	12	24.70	24.60	0.065	0.067	0.052	0.053	
					Rear	23095	707.5	1	25	25.70	25.50	0.750	0.785	0.392	0.410	72
								25	12	24.70	24.60	0.594	0.608	0.313	0.320	
					Front	23095	707.5	1	25	25.70	25.50	0.283	0.296	0.164	0.172	
								25	12	24.70	24.60	0.226	0.231	0.130	0.133	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	25	25.70	25.50	0.657	0.688	0.437	0.458	
								25	12	24.70	24.60	0.493	0.504	0.330	0.338	
					Edge 3	23095	707.5	1	25	25.70	25.50	0.426	0.446	0.187	0.196	
								25	12	24.70	24.60	0.310	0.317	0.137	0.140	
					Edge 4	23095	707.5	1	25	25.70	25.50	0.198	0.207	0.132	0.138	
								25	12	24.70	24.60	0.155	0.159	0.103	0.105	
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	24.50	0.351	0.351	0.257	0.257	
								25	12	23.50	23.50	0.237	0.237	0.173	0.173	
					Left Tilt	23095	707.5	1	25	24.50	24.50	0.344	0.344	0.201	0.201	
								25	12	23.50	23.50	0.277	0.277	0.161	0.161	
					Right Touch	23095	707.5	1	25	24.50	24.50	0.498	0.498	0.321	0.321	73
								25	12	23.50	23.50	0.396	0.396	0.264	0.264	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23095	707.5	1	25	24.50	24.50	0.468	0.468	0.265	0.265	
								25	12	23.50	23.50	0.370	0.370	0.208	0.208	
					Rear	23095	707.5	1	25	24.50	24.50	0.388	0.388	0.244	0.244	74
								25	12	23.50	23.50	0.306	0.306	0.192	0.192	
					Front	23095	707.5	1	25	24.50	24.50	0.266	0.266	0.182	0.182	
								25	12	23.50	23.50	0.212	0.212	0.145	0.145	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	25	24.50	24.50	0.189	0.189	0.087	0.087	
								25	12	23.50	23.50	0.114	0.114	0.055	0.055	
					Edge 2	23095	707.5	1	25	24.50	24.50	0.134	0.134	0.089	0.089	
								25	12	23.50	23.50	0.110	0.110	0.072	0.072	
					Edge 4	23095	707.5	1	25	24.50	24.50	0.318	0.318	0.214	0.214	
								25	12	23.50	23.50	0.253	0.253	0.171	0.171	

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	25.70	0.201	0.201	0.153	0.153	
								25	12	24.70	24.70	0.159	0.159	0.121	0.121	
					Left Tilt	23230	782.0	1	25	25.70	25.70	0.190	0.190	0.147	0.147	
								25	12	24.70	24.70	0.143	0.143	0.112	0.112	
					Right Touch	23230	782.0	1	25	25.70	25.70	0.262	0.262	0.198	0.198	75
								25	12	24.70	24.70	0.209	0.209	0.159	0.159	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23230	782.0	1	25	25.70	25.70	0.148	0.148	0.116	0.116	
								25	12	24.70	24.70	0.124	0.124	0.097	0.097	
					Rear	23230	782.0	1	25	25.70	25.70	0.703	0.703	0.377	0.377	76
								25	12	24.70	24.70	0.557	0.557	0.298	0.298	
					Front	23230	782.0	1	25	25.70	25.70	0.363	0.363	0.208	0.208	
								25	12	24.70	24.70	0.285	0.285	0.164	0.164	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	25	25.70	25.70	0.976	0.976	0.645	0.645	77
								25	12	24.70	24.70	0.776	0.776	0.513	0.513	
					Edge 3	23230	782.0	1	25	25.70	25.70	0.568	0.568	0.248	0.248	
								25	12	24.70	24.70	0.440	0.440	0.193	0.193	
					Edge 4	23230	782.0	1	25	25.70	25.70	0.434	0.434	0.284	0.284	
								25	12	24.70	24.70	0.354	0.354	0.231	0.231	
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	24.40	0.361	0.369	0.259	0.265	
								25	12	23.50	23.20	0.296	0.317	0.212	0.227	
					Left Tilt	23230	782.0	1	25	24.50	24.40	0.323	0.331	0.215	0.220	
								25	12	23.50	23.20	0.262	0.281	0.174	0.186	
					Right Touch	23230	782.0	1	25	24.50	24.40	0.447	0.457	0.308	0.315	78
								25	12	23.50	23.20	0.361	0.387	0.249	0.267	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	23230	782.0	1	25	24.50	24.40	0.402	0.411	0.222	0.227	
								25	12	23.50	23.20	0.337	0.361	0.181	0.194	
					Rear	23230	782.0	1	25	24.50	24.40	0.395	0.404	0.233	0.238	79
								25	12	23.50	23.20	0.325	0.348	0.190	0.204	
					Front	23230	782.0	1	25	24.50	24.40	0.265	0.271	0.182	0.186	
								25	12	23.50	23.20	0.215	0.230	0.147	0.158	
	Hotspot	QPSK	Mode B	5	Edge 1	23230	782.0	1	25	24.50	24.40	0.118	0.121	0.062	0.063	
								25	12	23.50	23.20	0.100	0.107	0.052	0.055	
					Edge 2	23230	782.0	1	25	24.50	24.40	0.188	0.192	0.123	0.126	
								25	12	23.50	23.20	0.154	0.165	0.100	0.107	
					Edge 4	23230	782.0	1	25	24.50	24.40	0.282	0.289	0.187	0.191	
								25	12	23.50	23.20	0.225	0.241	0.148	0.159	

10.13. LTE Band 25 (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	26365	1882.5	1	49	25.70	25.40	0.279	0.299	0.179	0.192	80						
								50	24	24.70	24.30	0.215	0.236	0.137	0.150							
					Left Tilt	26365	1882.5	1	49	25.70	25.40	0.225	0.241	0.132	0.141							
								50	24	24.70	24.30	0.176	0.193	0.102	0.112							
					Right Touch	26365	1882.5	1	49	25.70	25.40	0.524	0.561	0.322	0.345							
								50	24	24.70	24.30	0.417	0.457	0.256	0.281							
					Right Tilt	26365	1882.5	1	49	25.70	25.40	0.198	0.212	0.122	0.131							
								50	24	24.70	24.30	0.152	0.167	0.093	0.102							
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	21.75	21.60	0.741	0.767	0.341	0.353	81						
								50	24	21.75	21.60	0.720	0.745	0.338	0.350							
						26365	1882.5	1	49	21.75	21.50	0.797	0.844	0.360	0.381							
								50	24	21.75	21.50	0.813	0.861	0.368	0.390							
						26590	1905.0	100	0	21.75	21.60	0.787	0.815	0.356	0.369							
								1	49	21.75	21.70	0.722	0.730	0.363	0.367							
					Front	26365	1882.5	50	24	21.75	21.70	0.727	0.735	0.366	0.370							
								1	49	21.75	21.50	0.468	0.496	0.257	0.272							
						26140	1860.0	50	24	21.75	21.50	0.470	0.498	0.256	0.271							
								1	49	21.75	21.60	0.873	0.904	0.406	0.420							
						Hotspot	QPSK	Mode B	5	Edge 2	26140	1860.0	50	24	21.75		21.60	0.883	0.914	0.406	0.420	82
													1	49	21.75		21.50	0.895	0.948	0.415	0.440	
	26365	1882.5	50	24	21.75						21.50	0.902	0.955	0.405	0.429							
			100	0	21.75						21.60	0.902	0.934	0.411	0.425							
	26590	1905.0	1	49	21.75					21.70	0.965	0.976	0.435	0.440								
			50	24	21.75					21.70	0.960	0.971	0.432	0.437								
	Edge 3	26365	1882.5	1	49					21.75	21.50	0.491	0.520	0.215	0.228							
				50	24					21.75	21.50	0.476	0.504	0.209	0.221							
	Edge 4	26365	1882.5	1	49	21.75	21.50	0.059	0.062	0.030	0.032											
				50	24	21.75	21.50	0.059	0.062	0.031	0.033											

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	26365	1882.5	1	49	20.50	20.30	0.334	0.350	0.187	0.196								
								50	24	20.50	20.50	0.330	0.330	0.185	0.185								
					Left Tilt	26365	1882.5	1	49	20.50	20.30	0.295	0.309	0.154	0.161								
								50	24	20.50	20.50	0.298	0.298	0.155	0.155								
					Right Touch	26140	1860.0	1	49	20.50	20.50	0.838	0.838	0.416	0.416								
								50	24	20.50	20.50	0.819	0.819	0.412	0.412								
						26365	1882.5	1	49	20.50	20.30	0.852	0.892	0.424	0.444	83							
								50	24	20.50	20.50	0.845	0.845	0.421	0.421								
								100	0	20.50	20.40	0.757	0.775	0.389	0.398								
								1	49	20.50	20.20	0.612	0.656	0.319	0.342								
					Right Tilt	26140	1860.0	50	24	20.50	20.50	0.625	0.654	0.325	0.340								
								1	49	20.50	20.50	0.859	0.859	0.395	0.395								
						26365	1882.5	50	24	20.50	20.50	0.851	0.851	0.391	0.391								
								1	49	20.50	20.30	0.828	0.867	0.364	0.381								
								50	24	20.50	20.50	0.882	0.882	0.391	0.391								
								100	0	20.50	20.40	0.871	0.891	0.400	0.409								
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	18.50	18.50	0.885	0.885	0.395	0.395								
								50	24	18.50	18.40	0.861	0.881	0.383	0.392								
						26365	1882.5	1	49	18.50	18.30	0.822	0.861	0.363	0.380								
								50	24	18.50	18.20	0.833	0.893	0.363	0.389	84							
								100	0	18.50	18.20	0.824	0.883	0.362	0.388								
								1	49	18.50	18.10	0.654	0.717	0.293	0.321								
					26590	1905.0	50	24	18.50	18.00	0.697	0.782	0.304	0.341									
							1	49	18.50	18.30	0.295	0.309	0.149	0.156									
					Front	26365	1882.5	50	24	18.50	18.20	0.293	0.314	0.149	0.160								
								Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	18.50	18.30	0.352	0.369	0.140	0.147	
															50	24	18.50	18.20	0.347	0.372	0.139	0.149	
	Edge 2	26365	1882.5	1								49	18.50	18.30	0.034	0.035	0.017	0.018					
				50								24	18.50	18.20	0.035	0.037	0.017	0.019					
	Edge 4	26365	1882.5	1	49	18.50	18.30	0.278	0.291	0.140	0.147												
				50	24	18.50	18.20	0.311	0.333	0.157	0.168												

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	24.80	0.250	0.262	0.163	0.171	85
								50	24	24.00	23.88	0.201	0.207	0.131	0.135	
					Left Tilt	26365	1882.5	1	49	25.00	24.80	0.198	0.207	0.117	0.123	
								50	24	24.00	23.88	0.152	0.156	0.090	0.092	
					Right Touch	26365	1882.5	1	49	25.00	24.80	0.531	0.556	0.323	0.338	
								50	24	24.00	23.88	0.456	0.469	0.280	0.288	
					Right Tilt	26365	1882.5	1	49	25.00	24.80	0.200	0.209	0.125	0.131	
								50	24	24.00	23.88	0.155	0.159	0.097	0.099	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	19.75	19.50	0.870	0.922	0.426	0.451	86
								50	24	19.75	19.50	0.860	0.911	0.419	0.444	
						26365	1882.5	1	49	19.75	19.60	0.941	0.974	0.453	0.469	
								50	24	19.75	19.60	0.939	0.972	0.455	0.471	
						26590	1905.0	1	49	19.75	19.60	0.919	0.951	0.443	0.459	
								50	0	19.75	19.60	0.919	0.951	0.443	0.459	
					Front	26365	1882.5	1	49	19.75	19.40	0.847	0.918	0.405	0.439	
								50	24	19.75	19.40	0.862	0.934	0.410	0.444	
						26365	1882.5	1	49	19.75	19.60	0.395	0.409	0.216	0.224	
								50	24	19.75	19.60	0.388	0.402	0.212	0.219	
						26365	1882.5	1	49	19.75	19.60	0.362	0.375	0.194	0.201	
								50	24	19.75	19.60	0.361	0.374	0.194	0.201	
ANT4	Head	QPSK	Mode A	0	Left Touch	26140	1860.0	1	49	18.75	18.40	0.635	0.688	0.313	0.339	87
								50	24	18.75	18.40	0.642	0.696	0.321	0.348	
						26365	1882.5	1	49	18.75	18.30	0.731	0.811	0.364	0.404	
								50	24	18.75	18.30	0.733	0.813	0.364	0.404	
					Left Tilt	26365	1882.5	1	49	18.75	18.30	0.714	0.792	0.355	0.394	
								50	0	18.75	18.30	0.714	0.792	0.355	0.394	
						26590	1905.0	1	49	18.75	18.60	0.854	0.884	0.414	0.429	
								50	24	18.75	18.60	0.859	0.889	0.414	0.429	
	Body & Hotspot	QPSK	Mode B	5	Right Touch	26365	1882.5	1	49	18.75	18.30	0.487	0.540	0.231	0.256	88
								50	24	18.75	18.30	0.448	0.497	0.211	0.234	
						26365	1882.5	1	49	18.75	18.30	0.207	0.230	0.122	0.135	
								50	24	18.75	18.30	0.208	0.231	0.122	0.135	
					Right Tilt	26365	1882.5	1	49	18.75	18.30	0.171	0.190	0.092	0.102	
								50	24	18.75	18.30	0.171	0.190	0.092	0.102	
					Rear	26365	1882.5	1	49	20.00	19.87	0.463	0.477	0.227	0.234	
								50	24	20.00	19.87	0.453	0.467	0.226	0.233	
					Front	26365	1882.5	1	49	20.00	19.87	0.425	0.438	0.221	0.228	
								50	24	20.00	19.87	0.426	0.439	0.217	0.224	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	20.00	19.87	0.377	0.388	0.183	0.189	89
								50	24	20.00	19.87	0.369	0.380	0.181	0.186	
					Edge 2	26140	1860.0	1	49	20.00	19.82	0.711	0.741	0.314	0.327	
								50	24	20.00	19.80	0.714	0.748	0.314	0.329	
						26365	1882.5	1	49	20.00	19.87	0.820	0.845	0.361	0.372	
								50	24	20.00	19.87	0.797	0.821	0.347	0.358	
						26590	1905.0	1	49	20.00	19.84	0.778	0.807	0.339	0.352	
								50	0	20.00	19.84	0.778	0.807	0.339	0.352	
						26590	1905.0	1	49	20.00	19.88	0.780	0.802	0.357	0.367	
								50	24	20.00	19.87	0.776	0.800	0.342	0.352	

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	25.60	0.195	0.200	0.153	0.157	90
								25	12	24.70	24.42	0.150	0.160	0.118	0.126	
					Left Tilt	26865	831.5	1	25	25.70	25.60	0.116	0.119	0.090	0.092	
								25	12	24.70	24.42	0.092	0.098	0.072	0.077	
					Right Touch	26865	831.5	1	25	25.70	25.60	0.220	0.225	0.172	0.176	
								25	12	24.70	24.42	0.179	0.191	0.138	0.147	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	26865	831.5	1	25	25.70	25.60	0.114	0.117	0.088	0.090	91
								25	12	24.70	24.42	0.094	0.100	0.073	0.078	
					Rear	26865	831.5	1	25	25.70	25.60	0.506	0.518	0.315	0.322	
								25	12	24.70	24.42	0.402	0.429	0.250	0.267	
					Front	26865	831.5	1	25	25.70	25.60	0.262	0.268	0.173	0.177	
								25	12	24.70	24.42	0.206	0.220	0.136	0.145	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	25	25.70	25.60	0.456	0.467	0.296	0.303	
								25	12	24.70	24.42	0.366	0.390	0.236	0.252	
					Edge 3	26865	831.5	1	25	25.70	25.60	0.189	0.193	0.100	0.102	
								25	12	24.70	24.42	0.151	0.161	0.079	0.084	
					Edge 4	26865	831.5	1	25	25.70	25.60	0.234	0.239	0.150	0.153	
								25	12	24.70	24.42	0.185	0.197	0.119	0.127	
ANT2	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	24.50	24.30	0.332	0.348	0.251	0.263	92
								25	12	23.50	23.10	0.256	0.281	0.194	0.213	
					Left Tilt	26865	831.5	1	25	24.50	24.30	0.212	0.222	0.146	0.153	
								25	12	23.50	23.10	0.168	0.184	0.115	0.126	
					Right Touch	26865	831.5	1	25	24.50	24.30	0.469	0.491	0.329	0.345	
								25	12	23.50	23.10	0.367	0.402	0.257	0.282	
					Right Tilt	26865	831.5	1	25	24.50	24.30	0.302	0.316	0.177	0.185	
								25	12	23.50	23.10	0.238	0.261	0.138	0.151	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	24.50	24.30	0.293	0.307	0.170	0.178	93
								25	12	23.50	23.10	0.232	0.254	0.134	0.147	
					Front	26865	831.5	1	25	24.50	24.30	0.199	0.208	0.133	0.139	
								25	12	23.50	23.10	0.154	0.169	0.103	0.113	
	Hotspot	QPSK	Mode B	5	Edge 1	26865	831.5	1	25	24.50	24.30	0.092	0.096	0.052	0.054	94
								25	12	23.50	23.10	0.075	0.083	0.042	0.046	
					Edge 2	26865	831.5	1	25	24.50	24.30	0.174	0.182	0.112	0.117	
								25	12	23.50	23.10	0.139	0.152	0.089	0.098	
					Edge 4	26865	831.5	1	25	24.50	24.30	0.311	0.326	0.201	0.210	
								25	12	23.50	23.10	0.247	0.271	0.160	0.175	

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	25.40	0.247	0.265	0.145	0.155	
								25	12	24.70	24.40	0.197	0.211	0.115	0.123	
					Left Tilt	27710	2310.0	1	25	25.70	25.40	0.228	0.244	0.113	0.121	
								25	12	24.70	24.40	0.190	0.204	0.094	0.101	
					Right Touch	27710	2310.0	1	25	25.70	25.40	0.607	0.650	0.324	0.347	95
								25	12	24.70	24.40	0.502	0.538	0.269	0.288	
					Right Tilt	27710	2310.0	1	25	25.70	25.40	0.176	0.189	0.095	0.102	
								25	12	24.70	24.40	0.133	0.143	0.071	0.076	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	22.00	22.00	0.883	0.883	0.428	0.428	
								25	12	22.00	21.99	0.900	0.902	0.437	0.438	
								50	0	22.00	21.93	0.830	0.843	0.409	0.416	
					Front	27710	2310.0	1	25	22.00	22.00	0.661	0.661	0.343	0.343	
								25	12	22.00	21.99	0.686	0.688	0.349	0.350	
								50	0	22.00	21.93	0.980	0.996	0.424	0.431	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	25	22.00	22.00	0.911	0.911	0.397	0.397	
								25	12	22.00	21.99	0.913	0.915	0.397	0.398	
					Edge 3	27710	2310.0	1	25	22.00	22.00	0.253	0.253	0.113	0.113	
								25	12	22.00	21.99	0.251	0.252	0.114	0.114	
					Edge 4	27710	2310.0	1	25	22.00	22.00	0.039	0.039	0.021	0.021	
								25	12	22.00	21.99	0.039	0.039	0.021	0.021	
								50	0	22.00	21.93	0.980	0.996	0.424	0.431	97
								25	12	22.00	21.99	0.913	0.915	0.397	0.398	

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	21.00	20.60	0.416	0.456	0.188	0.206	
								25	12	21.00	20.60	0.365	0.400	0.163	0.179	
					Left Tilt	27710	2310.0	1	25	21.00	20.60	0.547	0.600	0.231	0.253	
								25	12	21.00	20.60	0.539	0.591	0.228	0.250	
					Right Touch	27710	2310.0	1	25	21.00	20.60	0.718	0.787	0.314	0.344	
								25	12	21.00	20.60	0.728	0.798	0.320	0.351	
					Right Tilt	27710	2310.0	1	25	21.00	20.60	0.738	0.809	0.299	0.328	
								25	12	21.00	20.60	0.744	0.816	0.301	0.330	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	20.50	20.00	0.726	0.815	0.336	0.377	
								25	12	20.50	20.20	0.795	0.852	0.329	0.353	
								50	0	20.50	20.20	0.774	0.829	0.337	0.361	
					Front	27710	2310.0	1	25	20.50	20.00	0.430	0.482	0.194	0.218	
								25	12	20.50	20.20	0.429	0.460	0.195	0.209	
								50	0	20.50	20.20	0.774	0.829	0.337	0.361	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	25	20.50	20.00	0.340	0.381	0.136	0.153	
								25	12	20.50	20.20	0.338	0.362	0.135	0.145	
					Edge 2	27710	2310.0	1	25	20.50	20.00	0.016	0.018	0.008	0.009	
								25	12	20.50	20.20	0.017	0.019	0.009	0.010	
					Edge 4	27710	2310.0	1	25	20.50	20.00	0.528	0.592	0.256	0.287	
								25	12	20.50	20.20	0.517	0.554	0.251	0.269	
								50	0	20.50	20.20	0.774	0.829	0.337	0.361	98
								25	12	20.50	20.20	0.429	0.460	0.195	0.209	

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	24.48	0.311	0.312	0.176	0.177	100
								25	12	23.50	23.40	0.243	0.249	0.137	0.140	
					Left Tilt	27710	2310.0	1	25	24.50	24.48	0.160	0.161	0.081	0.082	
								25	12	23.50	23.40	0.126	0.129	0.063	0.064	
					Right Touch	27710	2310.0	1	25	24.50	24.48	0.209	0.210	0.121	0.122	
								25	12	23.50	23.40	0.158	0.162	0.091	0.093	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	24.50	24.48	0.227	0.228	0.111	0.112	
								25	12	23.50	23.40	0.181	0.185	0.088	0.090	
					Front	27710	2310.0	1	25	20.75	20.70	0.879	0.889	0.400	0.405	
								25	12	20.75	20.60	0.876	0.907	0.400	0.414	
					Edge 3	27710	2310.0	50	0	20.75	20.75	0.991	0.991	0.445	0.445	101
								1	25	20.75	20.70	0.604	0.611	0.311	0.315	
ANT4	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	20.75	20.60	0.606	0.627	0.317	0.328	
								25	12	20.75	20.60	0.414	0.419	0.221	0.224	
					Left Tilt	27710	2310.0	1	25	20.75	20.60	0.410	0.424	0.217	0.225	
								25	12	20.75	20.60	0.410	0.424	0.217	0.225	
					Right Touch	27710	2310.0	1	25	20.75	20.60	0.380	0.384	0.202	0.204	
								25	12	20.75	20.60	0.353	0.365	0.197	0.204	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	17.50	17.40	0.827	0.846	0.396	0.405	
								25	12	17.50	17.50	0.831	0.831	0.397	0.397	
					Left Tilt	27710	2310.0	50	0	17.50	17.50	0.861	0.861	0.411	0.411	102
								1	25	17.50	17.40	0.571	0.584	0.291	0.298	
					Right Touch	27710	2310.0	25	12	17.50	17.50	0.565	0.565	0.288	0.288	
								1	25	17.50	17.40	0.233	0.238	0.123	0.126	
ANT4	Body & Hotspot	QPSK	Mode B	5	Right Tilt	27710	2310.0	25	12	17.50	17.50	0.235	0.235	0.125	0.125	
								1	25	17.50	17.40	0.265	0.271	0.132	0.135	
					Rear	27710	2310.0	1	25	17.50	17.50	0.264	0.264	0.132	0.132	
								25	12	19.00	18.90	0.786	0.804	0.372	0.381	
					Front	27710	2310.0	25	12	19.00	19.00	0.805	0.805	0.389	0.389	
								50	0	19.00	19.00	0.826	0.826	0.398	0.398	103
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	25	19.00	18.90	0.685	0.701	0.352	0.360	
								25	12	19.00	19.00	0.687	0.687	0.349	0.349	
					Edge 2	27710	2310.0	1	25	19.00	18.90	0.247	0.253	0.121	0.124	
								25	12	19.00	19.00	0.248	0.248	0.121	0.121	
					Edge 3	27710	2310.0	1	25	19.00	18.90	0.428	0.438	0.223	0.228	
								25	12	19.00	19.00	0.422	0.422	0.221	0.221	

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	25.70	0.118	0.118	0.063	0.063	104
								50	24	24.70	24.70	0.090	0.090	0.048	0.048	
					Left Tilt	40620	2593.0	1	49	25.70	25.70	0.097	0.097	0.041	0.041	
								50	24	24.70	24.70	0.077	0.077	0.032	0.032	
					Right Touch	40620	2593.0	1	49	25.70	25.70	0.103	0.103	0.058	0.058	
								50	24	24.70	24.70	0.081	0.081	0.045	0.045	
					Right Tilt	40620	2593.0	1	49	25.70	25.70	0.106	0.106	0.044	0.044	
								50	24	24.70	24.70	0.064	0.064	0.027	0.027	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	24.00	23.70	0.592	0.634	0.243	0.260	
								50	24	24.00	23.70	0.605	0.648	0.249	0.267	105
					Front	40620	2593.0	1	49	24.00	23.70	0.462	0.495	0.192	0.206	
								50	24	24.00	23.70	0.458	0.491	0.192	0.206	
	Hotspot	QPSK	Mode B	5	Edge 2	40620	2593.0	1	49	24.00	23.70	0.366	0.392	0.148	0.159	
								50	24	24.00	23.70	0.357	0.383	0.155	0.166	
					Edge 3	39750	2506.0	1	49	24.00	23.80	0.953	0.998	0.366	0.383	106
								50	24	24.00	23.85	0.955	0.989	0.366	0.379	
						40185	2549.5	1	49	24.00	23.75	0.822	0.871	0.314	0.333	
								50	24	24.00	23.75	0.821	0.870	0.312	0.330	
						40620	2593.0	1	49	24.00	23.70	0.876	0.939	0.327	0.350	
								50	24	24.00	23.70	0.862	0.924	0.310	0.332	
								100	0	24.00	23.70	0.872	0.934	0.323	0.346	
						41055	2636.5	1	49	24.00	23.70	0.792	0.849	0.256	0.274	
								50	24	24.00	23.70	0.781	0.837	0.287	0.308	
						41490	2680.0	1	49	24.00	23.50	0.721	0.809	0.262	0.294	
								50	24	24.00	23.50	0.726	0.815	0.265	0.297	
					Edge 4	40620	2593.0	1	49	24.00	23.70	0.107	0.115	0.050	0.054	
								50	24	24.00	23.70	0.107	0.115	0.050	0.053	

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	40620	2593.0	1	49	20.00	19.90	0.458	0.469	0.205	0.210	
								50	24	20.00	19.90	0.461	0.472	0.206	0.211	
					Left Tilt	39750	2506.0	1	49	20.00	19.90	0.750	0.767	0.303	0.310	
								50	24	20.00	19.90	0.763	0.781	0.308	0.315	
						40185	2549.5	1	49	20.00	19.90	0.760	0.778	0.306	0.313	
								50	24	20.00	19.90	0.764	0.782	0.307	0.314	
						40620	2593.0	1	49	20.00	19.90	0.828	0.847	0.328	0.336	
								50	24	20.00	19.90	0.844	0.864	0.334	0.342	
								100	0	20.00	19.90	0.832	0.851	0.331	0.339	
						41055	2636.5	1	49	20.00	19.80	0.839	0.879	0.321	0.336	
								50	24	20.00	19.80	0.835	0.874	0.321	0.336	
						41490	2680.0	1	49	20.00	19.80	0.844	0.884	0.324	0.339	
								50	24	20.00	19.80	0.857	0.897	0.323	0.338	107
					Right Touch	40620	2593.0	1	49	20.00	19.90	0.430	0.440	0.183	0.187	
								50	24	20.00	19.90	0.424	0.434	0.175	0.179	
					Right Tilt	40620	2593.0	1	49	20.00	19.90	0.730	0.747	0.277	0.283	
								50	24	20.00	19.90	0.731	0.748	0.277	0.283	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	22.75	22.60	0.770	0.797	0.357	0.370	
								50	24	22.25	22.10	0.742	0.768	0.342	0.354	
						40185	2549.5	1	49	22.75	22.75	0.728	0.728	0.333	0.333	
								50	24	22.25	22.15	0.818	0.837	0.365	0.374	
						40620	2593.0	1	49	22.75	22.73	0.838	0.842	0.369	0.371	108
								50	24	22.25	22.05	0.795	0.832	0.346	0.362	
								100	0	22.25	22.20	0.689	0.697	0.305	0.309	
						41055	2636.5	1	49	22.75	22.70	0.584	0.591	0.251	0.254	
								50	24	22.25	22.00	0.513	0.543	0.223	0.236	
						41490	2680.0	1	49	22.75	22.67	0.621	0.633	0.263	0.268	
								50	24	22.25	22.10	0.524	0.542	0.224	0.232	
					Front	40620	2593.0	1	49	22.75	22.73	0.532	0.534	0.223	0.224	
								50	24	22.25	22.05	0.505	0.529	0.208	0.218	
	Hotspot	QPSK	Mode B	5	Edge 1	39750	2506.0	1	49	22.75	22.60	0.834	0.863	0.321	0.332	109
								50	24	22.25	22.10	0.814	0.843	0.312	0.323	
						40185	2549.5	1	49	22.75	22.75	0.778	0.778	0.291	0.291	
								50	24	22.25	22.15	0.831	0.850	0.302	0.309	
						40620	2593.0	1	49	22.75	22.73	0.831	0.835	0.305	0.306	
								50	24	22.25	22.05	0.764	0.800	0.274	0.287	
								100	0	22.25	22.20	0.772	0.781	0.303	0.307	
						41055	2636.5	1	49	22.75	22.70	0.670	0.678	0.247	0.250	
								50	24	22.25	22.00	0.641	0.679	0.234	0.248	
						41490	2680.0	1	49	22.75	22.67	0.605	0.616	0.237	0.241	
								50	24	22.25	22.10	0.591	0.612	0.229	0.237	
					Edge 2	40620	2593.0	1	49	22.75	22.73	0.107	0.107	0.049	0.049	
								50	24	22.25	22.05	0.103	0.108	0.046	0.048	
					Edge 4	40620	2593.0	1	49	22.75	22.73	0.574	0.577	0.260	0.261	
								50	24	22.25	22.05	0.559	0.585	0.252	0.264	

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	25.30	0.233	0.244	0.122	0.128	110
								50	24	24.50	24.40	0.185	0.189	0.097	0.099	
					Left Tilt	40620	2593.0	1	49	25.50	25.30	0.057	0.060	0.033	0.035	
								50	24	24.50	24.40	0.043	0.044	0.025	0.026	
					Right Touch	40620	2593.0	1	49	25.50	25.30	0.118	0.124	0.065	0.068	
								50	24	24.50	24.40	0.150	0.153	0.081	0.083	
					Right Tilt	40620	2593.0	1	49	25.50	25.30	0.080	0.084	0.042	0.044	
								50	24	24.50	24.40	0.067	0.069	0.033	0.034	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	25.00	24.65	0.874	0.947	0.388	0.421	
								50	24	24.50	24.24	0.822	0.873	0.368	0.391	
						40185	2549.5	1	49	25.00	25.00	0.958	0.958	0.434	0.434	111
								50	24	24.50	24.20	0.888	0.952	0.368	0.394	
						40620	2593.0	100	0	24.50	24.50	0.700	0.700	0.322	0.322	
								1	49	25.00	24.70	0.777	0.833	0.354	0.379	
					Front	41055	2636.5	50	24	24.50	24.30	0.708	0.741	0.319	0.334	
								1	49	25.00	25.00	0.969	0.969	0.413	0.413	
						41490	2680.0	50	24	24.50	24.50	0.901	0.901	0.391	0.391	
								1	49	25.00	25.00	0.932	0.932	0.398	0.398	
								50	24	24.50	24.50	0.900	0.900	0.391	0.391	
						40620	2593.0	1	49	25.00	24.70	0.680	0.729	0.315	0.338	
								50	24	24.50	24.30	0.550	0.576	0.251	0.263	
	Hotspot	QPSK	Mode B	5	Edge 3	40620	2593.0	1	49	25.00	24.70	0.418	0.448	0.201	0.215	
								50	24	24.50	24.30	0.335	0.351	0.162	0.170	
					Edge 4	40620	2593.0	1	49	25.00	24.70	0.741	0.794	0.303	0.325	
								50	24	24.50	24.30	0.645	0.675	0.259	0.271	

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	
ANT4	Head	QPSK	Mode A	0	Left Touch	39750	2506.0	1	49	19.25	19.20	0.747	0.756	0.354	0.358	
								50	24	19.25	19.10	0.796	0.824	0.375	0.388	
						40185	2549.5	1	49	19.25	18.73	0.691	0.779	0.303	0.342	
								50	24	19.25	18.63	0.679	0.783	0.316	0.364	
						40620	2593.0	1	49	19.25	19.25	0.897	0.897	0.404	0.404	112
								50	24	19.25	19.25	0.895	0.895	0.420	0.420	
					Left Tilt	41055	2636.5	100	0	19.25	19.07	0.719	0.749	0.324	0.338	
								1	49	19.25	19.16	0.753	0.769	0.344	0.351	
						41490	2680.0	50	24	19.25	19.10	0.764	0.791	0.349	0.361	
								1	49	19.25	19.10	0.848	0.878	0.366	0.379	
						40620	2593.0	50	24	19.25	19.10	0.816	0.845	0.339	0.351	
								1	49	19.25	19.25	0.457	0.457	0.196	0.196	
	Body & Hotspot	QPSK	Mode B	5	Right Touch	40620	2593.0	50	24	19.25	19.25	0.451	0.451	0.215	0.215	
								1	49	19.25	19.25	0.189	0.189	0.105	0.105	
						40620	2593.0	50	24	19.25	19.25	0.194	0.194	0.106	0.106	
								1	49	19.25	19.25	0.147	0.147	0.082	0.082	
					Right Tilt	40620	2593.0	50	24	19.25	19.25	0.146	0.146	0.082	0.082	
								1	49	21.00	20.82	0.806	0.840	0.391	0.408	
						39750	2506.0	50	24	21.00	20.81	0.819	0.856	0.399	0.417	
						40185	2549.5	1	49	21.00	20.60	0.764	0.838	0.361	0.396	
								50	24	21.00	20.60	0.751	0.823	0.346	0.379	
						40620	2593.0	1	49	21.00	20.75	0.800	0.847	0.372	0.394	
								50	24	21.00	20.78	0.807	0.849	0.377	0.397	
					Front	41055	2636.5	100	0	21.00	20.78	0.796	0.837	0.371	0.390	
								1	49	21.00	20.87	0.826	0.851	0.393	0.405	
						41490	2680.0	50	24	21.00	20.87	0.828	0.853	0.375	0.386	
								1	49	21.00	21.00	0.895	0.895	0.422	0.422	113
						40620	2593.0	50	24	21.00	21.00	0.894	0.894	0.411	0.411	
								1	49	21.00	20.75	0.351	0.372	0.173	0.183	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	50	24	21.00	20.78	0.125	0.132	0.043	0.046	
								1	49	21.00	20.75	0.101	0.106	0.035	0.037	
					Edge 2	40620	2593.0	1	49	21.00	20.75	0.497	0.526	0.237	0.251	
								50	24	21.00	20.78	0.503	0.529	0.239	0.251	

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	0.104	0.117	0.052	0.058	
ANT3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	49	28.00	27.70	0.230	0.246	0.123	0.132	

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	0.117	63.3%	25.70	235.18	0.118	0.161	-27.35%
ANT3	Head	43.3%	28.00	273.20	0.246	63.3%	25.50	224.60	0.244	0.297	-17.12%

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	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	25.00	24.88	0.100	0.103	0.051	0.052	
ANT 1	Body	QPSK	Mode B	5	Rear	40620	2593.0	1	99	40818	2612.8	1	0	24.00	23.87	0.598	0.616	0.221	0.228	
ANT 1	Body	QPSK	Mode B	5	Edge 3	39750	2506.0	1	99	39948	2525.8	1	0	24.00	23.85	0.940	0.973	0.368	0.381	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	41490	2680.0	1	0	41292	2660.2	1	99	20.00	19.84	0.856	0.888	0.339	0.352	
ANT 2	Body	QPSK	Mode B	0	Rear	40620	2593.0	1	99	40818	2612.8	1	0	21.50	21.50	0.619	0.619	0.270	0.270	
ANT 2	Body	QPSK	Mode B	0	Edge 1	39750	2506.0	1	99	39948	2525.8	1	0	21.50	21.50	0.797	0.797	0.294	0.294	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	24.50	24.40	0.141	0.144	0.075	0.077	
ANT 3	Body	QPSK	Mode B	5	Rear	40185	2549.5	1	99	40383	2569.3	1	0	24.50	24.20	0.895	0.959	0.382	0.409	
ANT 4	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	19.25	19.18	0.669	0.680	0.305	0.310	
ANT 4	Body	QPSK	Mode A	0	Rear	41490	2680.0	1	0	41292	2660.2	1	99	21.00	21.00	0.705	0.705	0.306	0.306	

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	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	27.00	27.00	0.099	0.099	0.052	0.052	
ANT 2	Body	QPSK	Mode B	0	Rear	40620	2593.0	1	99	40818	2612.8	1	0	22.75	22.75	0.617	0.617	0.273	0.273	
ANT 2	Body	QPSK	Mode B	0	Edge 1	39750	2506.0	1	99	39948	2525.8	1	0	22.75	22.75	0.630	0.630	0.225	0.225	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40620	2593.0	1	99	40818	2612.8	1	0	26.50	26.50	0.135	0.135	0.071	0.071	
ANT 3	Body	QPSK	Mode B	5	Rear	40185	2549.5	1	99	40383	2569.3	1	0	25.00	24.90	0.774	0.792	0.307	0.314	

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	Test Position	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	Left Touch	43.3%	27.00	217.01	0.099	63.3%	25.00	200.17	0.103	0.111	-11.17%
ANT2	Body	Rear	43.3%	22.75	81.56	0.617	63.3%	21.50	89.41	0.619	0.565	9.27%
ANT2	Body	Edge 1	43.3%	22.75	81.56	0.630	63.3%	21.50	89.41	0.797	0.727	-13.34%
ANT3	Head	Left Touch	43.3%	26.50	193.41	0.135	63.3%	24.50	178.40	0.144	0.156	-13.53%
ANT3	Body	Rear	43.3%	25.00	136.93	0.792	63.3%	24.50	178.40	0.959	0.736	7.60%

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	25.70	0.145	0.145	0.062	0.062	114
								50	24	24.70	24.70	0.119	0.119	0.051	0.051	
					Left Tilt	56207	3646.7	1	49	25.70	25.70	0.056	0.056	0.016	0.016	
								50	24	24.70	24.70	0.053	0.053	0.014	0.014	
					Right Touch	56207	3646.7	1	49	25.70	25.70	0.149	0.149	0.047	0.047	
								50	24	24.70	24.70	0.100	0.100	0.031	0.031	
					Right Tilt	56207	3646.7	1	49	25.70	25.70	0.107	0.107	0.037	0.037	
								50	24	24.70	24.70	0.080	0.080	0.027	0.027	
	Body & Hotspot	QPSK	Mode B	5	Rear	55340	3560.0	1	49	24.00	23.90	0.471	0.482	0.185	0.189	115
						55773	3603.3	1	49	24.00	23.90	0.752	0.770	0.267	0.273	
						56207	3646.7	1	49	24.00	23.90	0.890	0.911	0.336	0.344	
								50	24	24.00	23.50	0.708	0.794	0.267	0.300	
					56640	3690.0		1	49	24.00	23.90	0.635	0.650	0.195	0.200	
								50	24	24.00	23.50	0.425	0.477	0.145	0.163	
					Front	56207	3646.7	1	49	24.00	23.90	0.541	0.554	0.186	0.190	
								50	24	24.00	23.50	0.425	0.477	0.145	0.163	
								1	49	24.00	23.90	0.238	0.244	0.081	0.083	
								50	24	24.00	23.50	0.187	0.210	0.062	0.070	
								1	49	24.00	23.90	0.331	0.339	0.097	0.099	
								50	24	24.00	23.50	0.187	0.210	0.062	0.070	
ANT6	Head	QPSK	Mode A	0	Edge 2	56207	3646.7	1	49	24.00	23.90	0.238	0.244	0.081	0.083	116
								50	24	24.00	23.50	0.187	0.210	0.062	0.070	
					Edge 3	55340	3560.0	1	49	24.00	23.90	0.331	0.339	0.097	0.099	
						55773	3603.3	1	49	24.00	23.90	0.868	0.888	0.265	0.271	
						56207	3646.7	1	49	24.00	23.90	0.839	0.859	0.270	0.276	
								50	24	24.00	23.50	0.649	0.728	0.209	0.235	
					56640	3690.0		1	49	24.00	23.90	0.590	0.604	0.169	0.173	
								50	24	24.00	23.50	0.349	0.392	0.120	0.135	
	Body & Hotspot	QPSK	Mode B	5	Edge 4	56207	3646.7	1	49	24.00	23.90	0.407	0.416	0.142	0.145	117
								50	24	24.00	23.50	0.349	0.392	0.120	0.135	
					Rear	55340	3560.0	1	49	22.50	22.50	0.398	0.398	0.110	0.110	
								50	24	21.50	21.50	0.261	0.261	0.076	0.076	
					Front	56207	3646.7	1	49	22.50	22.50	0.096	0.096	0.038	0.038	
								50	24	21.50	21.50	0.053	0.053	0.020	0.020	
					Hotspot	56207	3646.7	1	49	22.50	22.50	0.075	0.075	0.017	0.017	
								50	24	21.50	21.50	0.060	0.060	0.014	0.014	
								1	49	22.50	22.50	0.164	0.164	0.057	0.057	
								50	24	21.50	21.50	0.132	0.132	0.045	0.045	

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	25.10	0.032	0.035	0.011	0.012	
								50	24	24.50	24.13	0.018	0.020	0.006	0.007	
					Left Tilt	56207	3646.7	1	49	25.50	25.10	0.009	0.009	0.002	0.002	
								50	24	24.50	24.13	0.005	0.006	0.001	0.001	
					Right Touch	56207	3646.7	1	49	25.50	25.10	0.065	0.071	0.018	0.020	118
								50	24	24.50	24.13	0.044	0.048	0.011	0.012	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	49	25.50	25.10	0.035	0.038	0.007	0.007	
								50	24	24.50	24.13	0.021	0.023	0.004	0.004	
					Front	56207	3646.7	1	49	25.50	25.10	0.589	0.646	0.240	0.263	119
								50	24	24.50	24.13	0.515	0.561	0.200	0.218	
	Hotspot	QPSK	Mode B	5	Edge 3	56207	3646.7	1	49	25.50	25.10	0.490	0.537	0.177	0.194	
								50	24	24.50	24.13	0.387	0.421	0.139	0.151	
ANT4	Head	QPSK	Mode A	0	Edge 4	56207	3646.7	1	49	25.50	25.10	0.204	0.224	0.075	0.082	
								50	24	24.50	24.13	0.162	0.176	0.059	0.064	
								1	49	25.50	25.10	0.096	0.105	0.029	0.032	
								50	24	24.50	24.13	0.066	0.072	0.017	0.019	
	Body & Hotspot	QPSK	Mode B	5	Left Touch	56207	3646.7	1	49	22.50	22.40	0.724	0.741	0.264	0.270	120
								50	24	22.00	21.50	0.592	0.664	0.215	0.241	
					Left Tilt	56207	3646.7	1	49	22.50	22.40	0.477	0.488	0.176	0.180	
								50	24	22.00	21.50	0.381	0.427	0.141	0.158	
					Right Touch	56207	3646.7	1	49	22.50	22.40	0.158	0.162	0.067	0.068	
								50	24	22.00	21.50	0.127	0.142	0.053	0.059	
	Hotspot	QPSK	Mode B	5	Right Tilt	56207	3646.7	1	49	22.50	22.40	0.159	0.163	0.067	0.069	
								50	24	22.00	21.50	0.126	0.141	0.053	0.059	
					Rear	55340	3560.0	1	49	22.50	22.40	0.534	0.546	0.201	0.206	121
								50	24	22.00	21.50	0.356	0.399	0.135	0.151	
					Front	56207	3646.7	1	49	22.50	22.40	0.290	0.297	0.115	0.118	
								50	24	22.00	21.50	0.221	0.248	0.092	0.103	
					Edge 1	56207	3646.7	1	49	22.50	22.40	0.144	0.147	0.053	0.054	
								50	24	22.00	21.50	0.118	0.132	0.043	0.048	
					Edge 2	56207	3646.7	1	49	22.50	22.40	0.703	0.719	0.249	0.255	122
								50	24	22.00	21.50	0.570	0.640	0.202	0.227	

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	25.70	0.124	0.124	0.083	0.083	123
								50	24	24.70	24.70	0.097	0.097	0.065	0.065	
					Left Tilt	132322	1745.0	1	49	25.70	25.70	0.124	0.124	0.078	0.078	
								50	24	24.70	24.70	0.101	0.101	0.062	0.062	
					Right Touch	132322	1745.0	1	49	25.70	25.70	0.277	0.277	0.178	0.178	
								50	24	24.70	24.70	0.218	0.218	0.141	0.141	
					Right Tilt	132322	1745.0	1	49	25.70	25.70	0.110	0.110	0.072	0.072	
								50	24	24.70	24.70	0.094	0.094	0.061	0.061	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	18.00	17.70	0.578	0.619	0.276	0.296	124
								50	24	18.00	17.80	0.577	0.604	0.275	0.288	
					Front	132322	1745.0	1	49	18.00	17.70	0.364	0.390	0.179	0.192	
								50	24	18.00	17.80	0.363	0.380	0.179	0.187	
	Hotspot	QPSK	Mode B	5	Edge 2	132322	1745.0	1	49	18.00	17.70	0.182	0.195	0.095	0.102	125
								50	24	18.00	17.80	0.167	0.175	0.088	0.092	
					Edge 3	132072	1720.0	1	49	18.00	17.80	0.816	0.854	0.376	0.394	
								50	24	18.00	17.99	0.853	0.855	0.395	0.396	
						132322	1745.0	1	49	18.00	17.70	0.890	0.954	0.408	0.437	
								50	24	18.00	17.80	0.882	0.924	0.405	0.424	
						132572	1770.0	100	0	18.00	17.93	0.850	0.864	0.391	0.397	
								1	49	18.00	17.90	0.809	0.828	0.370	0.379	
					Edge 4	132322	1745.0	50	24	18.00	17.95	0.768	0.777	0.353	0.357	
								1	49	18.00	17.70	0.013	0.014	0.005	0.005	
					50	24	18.00	17.80	0.012	0.013	0.006	0.006				
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	22.00	0.271	0.271	0.144	0.144	126
								50	24	22.00	22.00	0.271	0.271	0.144	0.144	
					Left Tilt	132322	1745.0	1	49	22.00	22.00	0.288	0.288	0.145	0.145	
								50	24	22.00	22.00	0.289	0.289	0.145	0.145	
					Right Touch	132072	1720.0	1	49	22.00	22.00	0.802	0.802	0.393	0.393	
								50	24	22.00	22.00	0.804	0.804	0.393	0.393	
						132322	1745.0	1	49	22.00	22.00	0.845	0.845	0.415	0.415	
								50	24	22.00	22.00	0.834	0.834	0.409	0.409	
						132572	1770.0	100	0	22.00	22.00	0.858	0.858	0.416	0.416	
								1	49	22.00	22.00	0.878	0.878	0.434	0.434	
								50	24	22.00	22.00	0.882	0.882	0.435	0.435	
					Right Tilt	132322	1745.0	1	49	22.00	22.00	0.778	0.778	0.360	0.360	127
								50	24	22.00	22.00	0.785	0.785	0.362	0.362	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	20.00	19.70	0.726	0.778	0.343	0.368	127
								50	24	20.00	19.80	0.845	0.885	0.381	0.399	
						132322	1745.0	1	49	20.00	19.50	0.720	0.808	0.338	0.379	
								50	24	20.00	19.70	0.755	0.809	0.337	0.361	
						132572	1770.0	100	0	20.00	19.70	0.724	0.776	0.340	0.364	
								1	49	20.00	19.90	0.858	0.878	0.385	0.394	
								50	24	20.00	19.90	0.873	0.893	0.388	0.397	
					Front	132322	1745.0	1	49	20.00	19.50	0.246	0.276	0.120	0.135	
								50	24	20.00	19.70	0.248	0.266	0.121	0.130	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	20.00	19.50	0.425	0.477	0.196	0.220	128
50								24	20.00	19.70	0.461	0.494	0.207	0.222		
Edge 2					132322	1745.0	1	49	20.00	19.50	0.019	0.022	0.010	0.011		
							50	24	20.00	19.70	0.022	0.024	0.012	0.013		
Edge 4					132322	1745.0	1	49	20.00	19.50	0.229	0.257	0.128	0.144		
							50	24	20.00	19.70	0.233	0.250	0.130	0.139		

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	24.65	0.360	0.390	0.228	0.247	128
								50	24	24.00	23.76	0.275	0.291	0.175	0.185	
					Left Tilt	132322	1745.0	1	49	25.00	24.65	0.229	0.248	0.141	0.153	
								50	24	24.00	23.76	0.181	0.191	0.112	0.118	
					Right Touch	132322	1745.0	1	49	25.00	24.65	0.219	0.237	0.140	0.152	
								50	24	24.00	23.76	0.168	0.178	0.108	0.114	
					Right Tilt	132322	1745.0	1	49	25.00	24.65	0.174	0.189	0.107	0.116	
								50	24	24.00	23.76	0.134	0.142	0.083	0.088	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	21.75	21.62	0.880	0.907	0.466	0.480	
								50	24	21.75	21.70	0.892	0.902	0.472	0.477	
						132322	1745.0	1	49	21.75	21.66	0.971	0.991	0.509	0.520	129
								50	24	21.75	21.66	0.966	0.986	0.509	0.520	
						132572	1770.0	1	49	21.75	21.51	0.933	0.986	0.486	0.514	
								50	24	21.75	21.70	0.926	0.937	0.482	0.488	
					Front	132322	1745.0	1	49	21.75	21.66	0.456	0.466	0.265	0.271	
								50	24	21.75	21.66	0.460	0.470	0.267	0.273	
		Hotspot	QPSK	5	Edge 3	132322	1745.0	1	49	21.75	21.66	0.286	0.292	0.148	0.151	
								50	24	21.75	21.66	0.386	0.394	0.198	0.202	
					Edge 4	132322	1745.0	1	49	21.75	21.66	0.585	0.597	0.320	0.327	
								50	24	21.75	21.66	0.631	0.644	0.343	0.350	
ANT4	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	21.00	20.80	0.716	0.750	0.369	0.386	
								50	24	21.00	20.70	0.629	0.674	0.308	0.330	
						132322	1745.0	1	49	21.00	20.80	0.832	0.871	0.412	0.431	130
								50	24	21.00	20.50	0.721	0.809	0.374	0.420	
						132572	1770.0	1	49	21.00	20.80	0.734	0.769	0.358	0.375	
								50	24	21.00	20.95	0.793	0.802	0.413	0.418	
					Left Tilt	132322	1745.0	1	49	21.00	20.80	0.492	0.515	0.238	0.249	
								50	24	21.00	20.50	0.445	0.499	0.212	0.238	
					Right Touch	132322	1745.0	1	49	21.00	20.80	0.215	0.225	0.117	0.123	
								50	24	21.00	20.50	0.190	0.213	0.104	0.117	
					Right Tilt	132322	1745.0	1	49	21.00	20.80	0.251	0.263	0.126	0.132	
								50	24	21.00	20.50	0.196	0.220	0.103	0.116	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	22.25	22.00	0.659	0.698	0.326	0.345	
								1	49	22.25	21.90	0.747	0.810	0.364	0.395	131
						132572	1770.0	50	24	22.00	21.50	0.599	0.672	0.295	0.331	
								1	49	22.25	21.95	0.557	0.597	0.270	0.289	
					Front	132322	1745.0	1	49	22.25	21.90	0.418	0.453	0.215	0.233	
								50	24	22.00	21.50	0.336	0.377	0.172	0.193	
		Hotspot	QPSK	5	Edge 1	132322	1745.0	1	49	22.25	21.90	0.390	0.423	0.182	0.197	
								50	24	22.00	21.50	0.330	0.370	0.151	0.169	
					Edge 2	132072	1720.0	1	49	22.25	22.00	0.723	0.766	0.334	0.354	
								50	24	22.00	21.50	0.595	0.668	0.276	0.310	
						132322	1745.0	1	49	22.25	21.90	0.748	0.811	0.351	0.380	
								50	24	22.00	21.50	0.718	0.806	0.329	0.369	
						132572	1770.0	100	0	22.00	21.50	0.709	0.796	0.324	0.364	
								1	49	22.25	21.95	0.830	0.889	0.389	0.417	132
								50	24	22.00	21.70	0.822	0.881	0.378	0.405	

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	0.393	100.0%	21.50	21.50	0.224	0.224	0.120	0.120	133
						Left Tilt	6	2437	0.154	100.0%	21.50	21.50					
						Right Touch	6	2437	0.158	100.0%	21.50	21.50					
						Right Tilt	6	2437	0.190	100.0%	21.50	21.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	2	2417	2.000	100.0%	21.50	21.20	0.973	1.043	0.393	0.421	134
							6	2437	1.090	100.0%	21.50	21.40	0.935	0.957	0.389	0.398	
						Front	11	2462	1.380	100.0%	21.50	21.40	0.835	0.854	0.320	0.327	
							6	2437	1.020	100.0%	21.50	21.40	0.771	0.789	0.354	0.362	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.370	100.0%	21.50	21.40	0.202	0.207	0.097	0.099	
							6	2437	1.180	100.0%	21.50	21.40	0.741	0.758	0.316	0.323	
						Edge 4	11	2462	0.843	100.0%	21.50	21.40	0.643	0.658	0.284	0.291	
							Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle
ANT4	Cell OFF	Head	802.11b	Mode A	0	Left Touch	1	2412	1.790	100.0%	17.00	17.00	1.120	1.120	0.514	0.514	
							6	2437	1.880	100.0%	17.00	17.00	1.170	1.170	0.590	0.590	
							11	2462	1.380	100.0%	17.00	17.00	1.180	1.180	0.579	0.579	135
						Left Tilt	6	2437	1.130	100.0%	17.00	17.00	0.894	0.894	0.460	0.460	
							11	2462	1.050	100.0%	17.00	17.00	1.030	1.030	0.470	0.470	
						Right Touch	6	2437	0.425	100.0%	17.00	17.00	0.312	0.312	0.129	0.129	
		Right Tilt	6	2437	0.365		100.0%	17.00	17.00								
			Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.900	100.0%	18.75	18.75	1.070	1.070	0.432	0.432
		11						2462	2.620	100.0%	18.75	18.75	1.160	1.160	0.510	0.510	136
		Front					6	2437	0.581	100.0%	18.75	18.75					
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.230	100.0%	18.75	18.75					
						Edge 2	6	2437	0.942	100.0%	18.75	18.75	0.539	0.539	0.256	0.256	
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.
ANT3	Cell ON	Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.708	100.0%	17.75	17.75	0.420	0.420	0.171	0.171	137
						Front	6	2437	0.414	100.0%	17.75	17.75	0.273	0.273	0.123	0.123	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.187	100.0%	17.75	17.75					
						Edge 4	6	2437	0.192	100.0%	17.75	17.75					
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.
ANT4	Cell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.742	100.0%	13.50	13.50	0.525	0.525	0.225	0.225	138
						Left Tilt	6	2437	0.533	100.0%	13.50	13.50	0.383	0.383	0.157	0.157	
						Right Touch	6	2437	0.291	100.0%	13.50	13.50					
						Right Tilt	6	2437	0.232	100.0%	13.50	13.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.958	100.0%	15.25	15.25	0.475	0.475	0.221	0.221	139
						Front	6	2437	0.688	100.0%	15.25	15.25					
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.233	100.0%	15.25	15.25					
						Edge 2	6	2437	0.700	100.0%	15.25	15.25	0.426	0.426	0.191	0.191	

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	0.154	97.9%	21.50	21.50	0.068	0.069	0.021	0.021	140
							Left Tilt	54	5270	0.033	97.9%	21.50	21.50					
							Right Touch	54	5270	0.052	97.9%	21.50	21.50					
							Right Tilt	54	5270	0.027	97.9%	21.50	21.50					
		U-NII-1	Body & Airplay	802.11n HT40	Mode B	5	Rear	38	5190	0.442	97.9%	17.50	17.50	0.170	0.174	0.051	0.052	
								46	5230	2.470	97.9%	21.50	21.50	0.924	0.944	0.340	0.347	141
							Front	46	5230	0.092	97.9%	21.50	21.50					
							Edge 3	46	5230	0.407	97.9%	21.50	21.50	0.211	0.215	0.073	0.075	
ANT5	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.057	95.6%	21.50	21.50	0.007	0.007	0.001	0.001	142
							Left Tilt	122	5610	0.014	95.6%	21.50	21.50					
							Right Touch	122	5610	0.049	95.6%	21.50	21.50					
							Right Tilt	122	5610	0.020	95.6%	21.50	21.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	1.710	95.6%	16.50	16.50	0.744	0.778	0.221	0.231	
								122	5610	2.060	95.6%	20.00	20.00	1.080	1.129	0.323	0.338	
								138	5690	1.980	95.6%	20.00	20.00	1.110	1.161	0.333	0.348	143
							Front	138	5690	0.118	95.6%	20.00	20.00					
ANT5	Cell OFF	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.436	95.6%	20.00	20.00	0.192	0.201	0.069	0.072	
							Edge 4	138	5690	0.229	95.6%	20.00	20.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.436	95.6%	20.00	20.00	0.192	0.201	0.069	0.072	
							Edge 4	138	5690	0.229	95.6%	20.00	20.00					
							Edge 3	138	5690	0.436	95.6%	20.00	20.00	0.192	0.201	0.069	0.072	
							Edge 4	138	5690	0.229	95.6%	20.00	20.00					
							Edge 3	138	5690	0.436	95.6%	20.00	20.00	0.192	0.201	0.069	0.072	
							Edge 4	138	5690	0.229	95.6%	20.00	20.00					
ANT5	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.077	95.6%	21.50	21.50					
							Left Tilt	155	5775	0.089	95.6%	21.50	21.50					
							Right Touch	155	5775	0.100	95.6%	21.50	21.50	0.054	0.056	0.017	0.018	144
							Right Tilt	155	5775	0.062	95.6%	21.50	21.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.910	95.6%	18.00	18.00	1.030	1.077	0.322	0.337	145
							Front	155	5775	0.132	95.6%	18.00	18.00					
							Edge 3	155	5775	0.696	95.6%	18.00	18.00	0.286	0.299	0.102	0.107	
							Edge 4	155	5775	0.232	95.6%	18.00	18.00					
ANT6	Cell OFF	U-NII-1	Head	802.11n (HT40)	Mode A	0	Left Touch	46	5230	0.804	97.9%	21.50	21.50					
							Left Tilt	46	5230	0.997	97.9%	21.50	21.50	0.561	0.573	0.170	0.174	
							Right Touch	38	5190	0.664	97.9%	17.50	17.50	0.353	0.360	0.111	0.113	
								46	5230	1.900	97.9%	21.50	21.50	1.000	1.021	0.317	0.324	146
							Right Tilt	38	5190	0.529	97.9%	17.50	17.50	0.258	0.263	0.087	0.089	
								46	5230	1.790	97.9%	21.50	21.50	0.991	1.012	0.305	0.311	
			Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	0.682	97.9%	17.50	17.50	0.292	0.298	0.102	0.104	
								46	5230	1.750	97.9%	21.50	21.50	0.763	0.779	0.274	0.280	147
ANT6	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.609	95.6%	21.50	21.50					
							Left Tilt	138	5690	0.765	95.6%	21.50	21.50	0.467	0.488	0.130	0.136	
							Right Touch	122	5610	2.130	95.6%	20.50	20.50	1.070	1.119	0.351	0.367	
								138	5690	2.430	95.6%	21.50	21.50	1.100	1.150	0.371	0.388	149
							Right Tilt	122	5610	1.600	95.6%	20.50	20.50	0.825	0.863	0.277	0.290	
								138	5690	1.690	95.6%	21.50	21.50	0.825	0.863	0.282	0.295	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	1.460	95.6%	18.75	18.75	0.349	0.365	0.115	0.120	150
							Front	122	5610	0.579	95.6%	18.75	18.75					
ANT6	Cell OFF	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.630	95.6%	18.75	18.75					
								122	5610	0.630	95.6%	18.75	18.75					
							Edge 4	122	5610	2.060	95.6%	18.75	18.75	1.080	1.129	0.337	0.352	151
								138	5690	2.080	95.6%	18.75	18.75	0.911	0.953	0.284	0.297	
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.630	95.6%	18.75	18.75					
								122	5610	0.630	95.6%	18.75	18.75					
							Edge 4	122	5610	2.060	95.6%	18.75	18.75	1.080	1.129	0.337	0.352	151
								138	5690	2.080	95.6%	18.75	18.75	0.911	0.953	0.284	0.297	
ANT6	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	1.640	95.6%	21.50	21.50	0.709	0.741	0.213	0.223	
							Left Tilt	155	5775	1.760	95.6%	21.50	21.50	0.830	0.868	0.245	0.256	
							Right Touch	155	5775	2.480	95.6%	21.50	21.50	1.020	1.067	0.381	0.398	
							Right Tilt	155	5775	2.280	95.6%	21.50	21.50	1.070	1.119	0.368	0.385	152
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.980	95.6%	20.25	20.25	0.931	0.974	0.256	0.268	153
							Front	155	5775	0.688	95.6%	20.25	20.25	0.386	0.404	0.129	0.135	
							Edge 1	155	5775	0.493	95.6%	20.25	20.25					
							Edge 4	155	5775	1.970	95.6%	20.25	20.25	1.100	1.150	0.344	0.360	154

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-1	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.526	95.6%	17.00	17.00	0.315	0.329	0.088	0.092	155
							Front	42	5210	0.100	95.6%	17.00	17.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.129	95.6%	17.00	17.00					
							Edge 4	42	5210	0.208	95.6%	17.00	17.00					
ANT5	Cell ON	U-NII-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.663	95.6%	14.75	14.75	0.294	0.307	0.087	0.091	156
							Front	122	5610	0.027	95.6%	14.75	14.75					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	122	5610	0.127	95.6%	14.75	14.75					
							Edge 4	122	5610	0.068	95.6%	14.75	14.75					
ANT5	Cell ON	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.686	95.6%	12.50	12.50	0.300	0.314	0.093	0.097	157
							Front	155	5775	0.124	95.6%	12.50	12.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.250	95.6%	12.50	12.50					
							Edge 4	155	5775	0.088	95.6%	12.50	12.50					
ANT6	Cell ON	U-NII-1	Head	802.11n HT 40	Mode A	0	Left Touch	46	5230	0.318	97.9%	20.75	20.75					
							Left Tilt	46	5230	0.397	97.9%	20.75	20.75					
							Right Touch	46	5230	0.970	97.9%	20.75	20.75	0.428	0.437	0.138	0.141	158
							Right Tilt	46	5230	0.615	97.9%	20.75	20.75	0.331	0.338	0.111	0.113	
			Body & Airplay	802.11n HT 40	Mode B	5	Rear	46	5230	0.728	97.9%	17.75	17.75	0.380	0.388	0.112	0.114	159
							Front	46	5230	0.275	97.9%	17.75	17.75					
							Edge 1	46	5230	0.168	97.9%	17.75	17.75					
							Edge 4	46	5230	0.874	97.9%	17.75	17.75	0.412	0.421	0.130	0.133	160
ANT6	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.294	95.6%	17.00	17.00					
							Left Tilt	122	5610	0.301	95.6%	17.00	17.00					
							Right Touch	122	5610	0.808	95.6%	17.00	17.00	0.421	0.440	0.142	0.148	161
							Right Tilt	122	5610	0.747	95.6%	17.00	17.00	0.362	0.379	0.128	0.134	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.563	95.6%	14.50	14.50	0.183	0.191	0.058	0.061	162
							Front	122	5610	0.235	95.6%	14.50	14.50					
							Edge 1	122	5610	0.158	95.6%	14.50	14.50					
							Edge 4	122	5610	0.585	95.6%	14.50	14.50	0.391	0.409	0.116	0.121	163
ANT6	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.320	95.6%	17.50	17.50					
							Left Tilt	155	5775	0.502	95.6%	17.50	17.50					
							Right Touch	155	5775	1.090	95.6%	17.50	17.50	0.409	0.428	0.149	0.156	164
							Right Tilt	155	5775	0.727	95.6%	17.50	17.50	0.323	0.338	0.103	0.108	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.808	95.6%	16.00	16.00	0.352	0.368	0.092	0.096	165
							Front	155	5775	0.310	95.6%	16.00	16.00					
							Edge 1	155	5775	0.203	95.6%	16.00	16.00					
							Edge 4	155	5775	0.741	95.6%	16.00	16.00	0.385	0.403	0.121	0.127	166

10.21. Bluetooth

ANT3 Power Mode A the P_{high} is same as P_{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	0.047	0.047	0.022	0.022	167
					Left Tilt	39	2441	100.0%	11.00	11.00	0.016	0.016	0.006	0.006	
					Right Touch	39	2441	100.0%	11.00	11.00	0.018	0.018	0.006	0.006	
					Right Tilt	39	2441	100.0%	11.00	11.00	0.017	0.017	0.006	0.006	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	11.00	11.00	0.082	0.082	0.031	0.031	168
					Front	39	2441	100.0%	11.00	11.00	0.061	0.061	0.026	0.026	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	11.00	11.00	0.024	0.024	0.011	0.011	
					Edge 4	39	2441	100.0%	11.00	11.00	0.039	0.039	0.015	0.015	
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 _{high}	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	15.00	15.00	0.219	0.219	0.086	0.086	169
					Front	39	2441	100.0%	15.00	15.00	0.146	0.146	0.064	0.064	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	15.00	15.00	0.060	0.060	0.027	0.027	
					Edge 4	39	2441	100.0%	15.00	15.00	0.099	0.099	0.041	0.041	
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 _{standalone}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	19.50	19.50	0.263	0.263	0.125	0.125	170
					Left Tilt	39	2441	100.0%	19.50	19.50	0.073	0.073	0.031	0.031	
					Right Touch	39	2441	100.0%	19.50	19.50	0.108	0.108	0.050	0.050	
					Right Tilt	39	2441	100.0%	19.50	19.50	0.087	0.087	0.040	0.040	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	18.50	18.50	0.571	0.571	0.222	0.222	171
					Front	39	2441	100.0%	18.50	18.50	0.426	0.426	0.187	0.187	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	18.50	18.50	0.167	0.167	0.082	0.082	
					Edge 4	39	2441	100.0%	18.50	18.50	0.255	0.255	0.105	0.105	
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	
ANT4 P _{low}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	8.50	8.50	0.082	0.082	0.037	0.037	172
					Left Tilt	39	2441	100.0%	8.50	8.50	0.051	0.051	0.021	0.021	
					Right Touch	39	2441	100.0%	8.50	8.50	0.039	0.039	0.018	0.018	
					Right Tilt	39	2441	100.0%	8.50	8.50	0.029	0.029	0.011	0.011	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	9.00	9.00	0.098	0.098	0.050	0.050	173
					Front	39	2441	100.0%	9.00	9.00	0.067	0.067	0.034	0.034	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	9.00	9.00	0.028	0.028	0.007	0.007	
					Edge 2	39	2441	100.0%	9.00	9.00	0.098	0.098	0.046	0.046	
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	
ANT4 P _{high}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	12.50	12.50	0.219	0.219	0.095	0.095	174
					Left Tilt	39	2441	100.0%	12.50	12.50	0.141	0.141	0.055	0.055	
					Right Touch	39	2441	100.0%	12.50	12.50	0.067	0.067	0.031	0.031	
					Right Tilt	39	2441	100.0%	12.50	12.50	0.058	0.058	0.024	0.024	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	13.00	13.00	0.212	0.212	0.108	0.108	175
					Front	39	2441	100.0%	13.00	13.00	0.142	0.142	0.072	0.072	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	13.00	13.00	0.054	0.054	0.026	0.026	
					Edge 2	39	2441	100.0%	13.00	13.00	0.231	0.231	0.108	0.108	176
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	
ANT4 P _{standalone}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	16.00	16.00	0.515	0.515	0.232	0.232	177
					Left Tilt	39	2441	100.0%	16.00	16.00	0.460	0.460	0.193	0.193	
					Right Touch	39	2441	100.0%	16.00	16.00	0.203	0.203	0.093	0.093	
					Right Tilt	39	2441	100.0%	16.00	16.00	0.155	0.155	0.065	0.065	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	16.50	16.50	0.516	0.516	0.234	0.234	178
					Front	39	2441	100.0%	16.50	16.50	0.456	0.456	0.230	0.230	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	16.50	16.50	0.114	0.114	0.056	0.056	
					Edge 2	39	2441	100.0%	16.50	16.50	0.412	0.412	0.175	0.175	

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 ($\sim 10\%$ from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
700	LTE Band 13	Hotspot	Edge 2	Yes	0.976	0.953	1.02
1700	LTE Band 66	Body & Hotspot	Rear	Yes	0.971	0.937	1.04
1900	LTE Band 25	Hotspot	Edge 2	Yes	0.965	0.925	1.04
2300	LTE Band 30	Body & Hotspot	Rear	Yes	0.991	0.971	1.02
2400	Wi-Fi 802.11b/g/n	Head	Left Touch	Yes	1.180	1.180	1.00
2600	LTE Band 41	Body & Hotspot	Rear	Yes	0.958	0.933	1.03
3500	LTE Band 48	Body & Hotspot	Rear	Yes	0.890	0.885	1.01
5200	Wi-Fi 802.11a/n/ac	Hotspot	Edge 4	Yes	1.040	1.000	1.04
5500	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.110	1.080	1.03
5800	Wi-Fi 802.11a/n/ac	Hotspot	Edge 4	Yes	1.100	1.090	1.01

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.

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 $<1.6\text{W/kg}$ 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.

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)	+	(ANT4) Wi-Fi 5 GHz SISO	+	(ANT2) Bluetooth (P _{High})
	2		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT2) Bluetooth (P _{High})
	3		+	Wi-Fi 5 GHz MIMO	+	(ANT2) Bluetooth (P _{High})
	4		+	(ANT4) Wi-Fi 5 GHz SISO	+	(ANT5) Bluetooth (P _{High})
	5		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT5) Bluetooth (P _{High})
	6		+	Wi-Fi 5 GHz MIMO	+	(ANT5) Bluetooth (P _{High})
	7	WWAN ON (CELLULAR ANTENNAS ON)	+	(ANT2) Wi-Fi 2.4 GHz SISO		
	8		+	(ANT5) Wi-Fi 2.4 GHz SISO		
	9		+	Wi-Fi 2.4 GHz MIMO		
	10				+	(ANT2) Bluetooth (P _{High})
	11				+	(ANT5) Bluetooth (P _{High})
	12		+	(ANT4) Wi-Fi 5 GHz SISO		
	13		+	(ANT5) Wi-Fi 5 GHz SISO		
	14		+	Wi-Fi 5 GHz MIMO		
	15		+	(ANT4) Wi-Fi 5 GHz SISO	+	(ANT2) Bluetooth (P _{Low})
	16		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT2) Bluetooth (P _{Low})
	17		+	Wi-Fi 5 GHz MIMO	+	(ANT2) Bluetooth (P _{Low})
	18		+	(ANT4) Wi-Fi 5 GHz SISO	+	(ANT5) Bluetooth (P _{Low})
	19		+	(ANT5) Wi-Fi 5 GHz SISO	+	(ANT5) Bluetooth (P _{Low})
	20		+	Wi-Fi 5 GHz MIMO	+	(ANT5) Bluetooth (P _{Low})

Note(s):

- Wi-Fi 2.4GHz & Bluetooth time-share the same antenna and cannot transmit simultaneously.
- Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
- WWAN ANT1, ANT2, ANT3, ANT4 and ANT6 cannot transmit simultaneously.
- 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.
- Condition 3 is covered by conditions 1 and 2.
- Condition 6 is covered by conditions 4 and 5.
- Condition 17 is covered by conditions 15 and 16.
- Condition 20 is covered by conditions 18 and 19.

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	0.069	0.741	0.263	0.219	0.332	0.288	1.004	0.960
	Left Tilt	0.056	0.868	0.073	0.141	0.129	0.197	0.941	1.009
	Right Touch	0.056	1.150	0.108	0.067	0.164	0.123	1.258	1.217
	Right Tilt	0.056	1.119	0.087	0.058	0.143	0.114	1.206	1.176
Body-worn & Hotspot	Rear	1.161	0.974	0.219	0.212	1.380	1.373	1.193	1.186
	Front	0.299	0.404	0.146	0.142	0.445	0.441	0.550	0.546
Hotspot	Edge 1		0.404		0.054		0.054	0.404	0.458
	Edge 2				0.231		0.231		0.231
	Edge 3	0.299		0.060		0.359	0.299	0.060	
	Edge 4	0.299	1.150	0.099		0.398	0.299	1.249	1.150

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	0.300	0.224	0.525	0.263	0.219	0.524	0.825	0.563	0.519
	Left Tilt	0.244	0.224	0.383	0.073	0.141	0.468	0.627	0.317	0.385
	Right Touch	0.761	0.224	0.383	0.108	0.067	0.985	1.144	0.869	0.828
	Right Tilt	0.246	0.224	0.383	0.087	0.058	0.470	0.629	0.333	0.303
Body-worn & Hptspot	Rear	0.911	0.420	0.475	0.219	0.212	1.331	1.386	1.130	1.123
	Front	0.688	0.273	0.426	0.146	0.142	0.961	1.114	0.834	0.830
Hotspot	Edge 2	0.996		0.426		0.231	0.996	1.422	0.996	1.227
	Edge 3	0.998	0.273		0.060		1.271	0.998	1.058	0.998
	Edge 4	0.434	0.273		0.099		0.707	0.434	0.533	0.434
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	0.300	0.069	0.379	0.047	0.082	0.417	0.452	0.726	0.761
	Left Tilt	0.244	0.056	0.379	0.016	0.051	0.316	0.351	0.639	0.674
	Right Touch	0.761	0.056	0.440	0.018	0.039	0.836	0.857	1.219	1.240
	Right Tilt	0.246	0.056	0.379	0.017	0.029	0.319	0.331	0.641	0.653
Body-worn & Hptspot	Rear	0.911	0.329	0.388	0.082	0.098	1.322	1.338	1.381	1.397
	Front	0.688	0.329	0.421	0.061	0.067	1.078	1.084	1.170	1.176
Hotspot	Edge 2	0.996				0.098	0.996	1.094	0.996	1.094
	Edge 3	0.998	0.329		0.024		1.351	1.327	1.022	0.998
	Edge 4	0.434	0.329	0.421	0.039		0.802	0.763	0.894	0.855

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	0.481	0.224	0.525	0.263	0.219	0.705	1.006	0.744	0.700
	Left Tilt	0.897	0.224	0.383	0.073	0.141	1.121	1.280	0.970	1.038
	Right Touch	0.898	0.224	0.383	0.108	0.067	1.122	1.281	1.006	0.965
	Right Tilt	0.891	0.224	0.383	0.087	0.058	1.115	1.274	0.978	0.949
Body-worn & Hptspot	Rear	0.893	0.420	0.475	0.219	0.212	1.313	1.368	1.112	1.105
	Front	0.534	0.273	0.426	0.146	0.142	0.807	0.960	0.680	0.676
Hotspot	Edge 1	0.863		0.426		0.054	0.863	1.289	0.863	0.917
	Edge 2	0.289		0.426		0.231	0.289	0.715	0.289	0.520
	Edge 4	0.592	0.273		0.099		0.865	0.592	0.691	0.592
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	0.481	0.069	0.379	0.047	0.082	0.597	0.632	0.907	0.942
	Left Tilt	0.897	0.056	0.379	0.016	0.051	0.969	1.004	1.292	1.327
	Right Touch	0.898	0.056	0.440	0.018	0.039	0.973	0.994	1.357	1.378
	Right Tilt	0.891	0.056	0.379	0.017	0.029	0.964	0.976	1.287	1.299
Body-worn & Hptspot	Rear	0.893	0.329	0.388	0.082	0.098	1.305	1.321	1.363	1.379
	Front	0.534	0.329	0.421	0.061	0.067	0.924	0.930	1.016	1.022
Hotspot	Edge 1	0.863		0.421		0.028	0.863	0.891	1.284	1.312
	Edge 2	0.289				0.098	0.289	0.387	0.289	0.387
	Edge 4	0.592	0.329	0.421	0.039		0.960	0.921	1.052	1.013

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	0.544	0.224	0.525	0.263	0.219	0.768	1.069	0.807	0.763
	Left Tilt	0.254	0.224	0.383	0.073	0.141	0.478	0.637	0.327	0.395
	Right Touch	0.556	0.224	0.383	0.108	0.067	0.780	0.939	0.664	0.623
	Right Tilt	0.238	0.224	0.383	0.087	0.058	0.462	0.621	0.325	0.296
Body-worn & Hptspot	Rear	0.992	0.420	0.475	0.219	0.212	1.412	1.467	1.211	1.204
	Front	0.729	0.273	0.426	0.146	0.142	1.002	1.155	0.875	0.871
Hotspot	Edge 3	0.448	0.273		0.060		0.721	0.448	0.508	0.448
	Edge 4	0.794	0.273		0.099		1.067	0.794	0.893	0.794

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	0.544	0.069	0.379	0.047	0.082	0.661	0.696	0.970	1.005
	Left Tilt	0.254	0.056	0.379	0.016	0.051	0.326	0.361	0.649	0.684
	Right Touch	0.556	0.056	0.440	0.018	0.039	0.630	0.651	1.014	1.035
	Right Tilt	0.238	0.056	0.379	0.017	0.029	0.311	0.323	0.634	0.646
Body-worn & Hptspot	Rear	0.992	0.329	0.388	0.082	0.098	1.403	1.419	1.462	1.478
	Front	0.729	0.329	0.421	0.061	0.067	1.119	1.125	1.211	1.217
Hotspot	Edge 3	0.448	0.329		0.024		0.801	0.777	0.472	0.448
	Edge 4	0.794	0.329	0.421	0.039		1.162	1.123	1.254	1.215

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	0.898	0.224	0.525	0.263	0.219	1.122	1.423	1.161	1.117
	Left Tilt	0.609	0.224	0.383	0.073	0.141	0.833	0.992	0.682	0.750
	Right Touch	0.690	0.224	0.383	0.108	0.067	0.914	1.073	0.798	0.757
	Right Tilt	0.515	0.224	0.383	0.087	0.058	0.739	0.898	0.602	0.573
Body-worn & Hptspot	Rear	0.895	0.420	0.475	0.219	0.212	1.315	1.370	1.114	1.107
	Front	0.701	0.273	0.426	0.146	0.142	0.974	1.127	0.847	0.843
Hotspot	Edge 1	0.423		0.426		0.054	0.423	0.849	0.423	0.477
	Edge 2	0.889		0.426		0.231	0.889	1.315	0.889	1.120
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	0.898	0.069	0.379	0.047	0.082	1.015	1.050	1.324	1.359
	Left Tilt	0.609	0.056	0.379	0.016	0.051	0.681	0.716	1.004	1.039
	Right Touch	0.690	0.056	0.440	0.018	0.039	0.764	0.785	1.148	1.169
	Right Tilt	0.515	0.056	0.379	0.017	0.029	0.588	0.600	0.911	0.923
Body-worn & Hptspot	Rear	0.895	0.329	0.388	0.082	0.098	1.306	1.322	1.365	1.381
	Front	0.701	0.329	0.421	0.061	0.067	1.091	1.097	1.183	1.189
Hotspot	Edge 1	0.423		0.421		0.028	0.423	0.451	0.844	0.872
	Edge 2	0.889				0.098	0.889	0.987	0.889	0.987

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	0.098	0.224	0.525	0.263	0.219	0.322	0.623	0.361	0.317
	Left Tilt	0.138	0.224	0.383	0.073	0.141	0.362	0.521	0.211	0.279
	Right Touch	0.204	0.224	0.383	0.108	0.067	0.428	0.587	0.312	0.271
	Right Tilt	0.159	0.224	0.383	0.087	0.058	0.383	0.542	0.246	0.217
Body-worn & Hptspot	Rear	0.398	0.420	0.475	0.219	0.212	0.818	0.873	0.617	0.610
	Front	0.096	0.273	0.426	0.146	0.142	0.369	0.522	0.242	0.238
Hotspot	Edge 1	0.075		0.426		0.054	0.075	0.501	0.075	0.129
	Edge 4	0.164	0.273		0.099		0.437	0.164	0.263	0.164
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	0.098	0.069	0.379	0.047	0.082	0.214	0.249	0.524	0.559
	Left Tilt	0.138	0.056	0.379	0.016	0.051	0.210	0.245	0.533	0.568
	Right Touch	0.204	0.056	0.440	0.018	0.039	0.278	0.299	0.662	0.683
	Right Tilt	0.159	0.056	0.379	0.017	0.029	0.232	0.244	0.555	0.567
Body-worn & Hptspot	Rear	0.398	0.329	0.388	0.082	0.098	0.809	0.825	0.868	0.884
	Front	0.096	0.329	0.421	0.061	0.067	0.486	0.492	0.578	0.584
Hotspot	Edge 1	0.075		0.421		0.028	0.075	0.103	0.496	0.524
	Edge 4	0.164	0.329	0.421	0.039		0.532	0.493	0.624	0.585

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