SAR EVALUATION REPORT

FCC 47 CFR § 2.1093
IEEE Std 1528-2013

For
SMARTPHONE

FCC ID: BCG-E3218A
Model Name: A1920, A2099, and A2100

Report Number: 12124121-S1V2
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Revision History

Rev.	Date	Revisions	Revised By
V1	7/18/2018	Initial Issue	--
V2	8/30/2018	Address TCB's questions	Devin Chang

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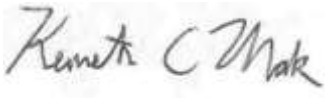
1. Attestation of Test Results

Applicant Name		APPLE, INC.			
FCC ID		BCG-E3218A			
Model Name		A1920, A2099, and A2100			
Difference in Model Name		Model A2099, A2100 is electrically identical to Model A1920. Three model numbers are allocated for marketing and logistic purposes only.			
Applicable Standards		FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013			
Exposure Category		SAR Limits (W/Kg)			
		Peak spatial-average(1g of tissue)	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	DTS	NII	DSS
Head		0.899	1.160	1.193	0.345
Body-worn (Dist.= 5 mm)		0.993	1.110	1.182	0.433
Hotspot (Dist.= 5 mm)		0.993	1.110	1.182	0.433
Simultaneous TX	Head	1.354	1.354	1.368	1.368
	Body-worn	1.529	1.510	1.529	1.529
	Hotspot	1.529	1.510	1.529	1.529
Date Tested		5/30/2018 to 6/29/2018			
Test Results		Pass			

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.

Approved & Released By:	Prepared By:
	
Devin Chang Senior Test Engineer UL Verification Services Inc.	Kenneth C. Mak 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 April 2015; RF Exposure Procedures Update (Overlapping LTE Bands)
- TCB workshop October 2014; RF Exposure Procedures Update (Other LTE Considerations)
- 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 May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- TCB workshop October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- 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)

3. Facilities and Accreditation

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

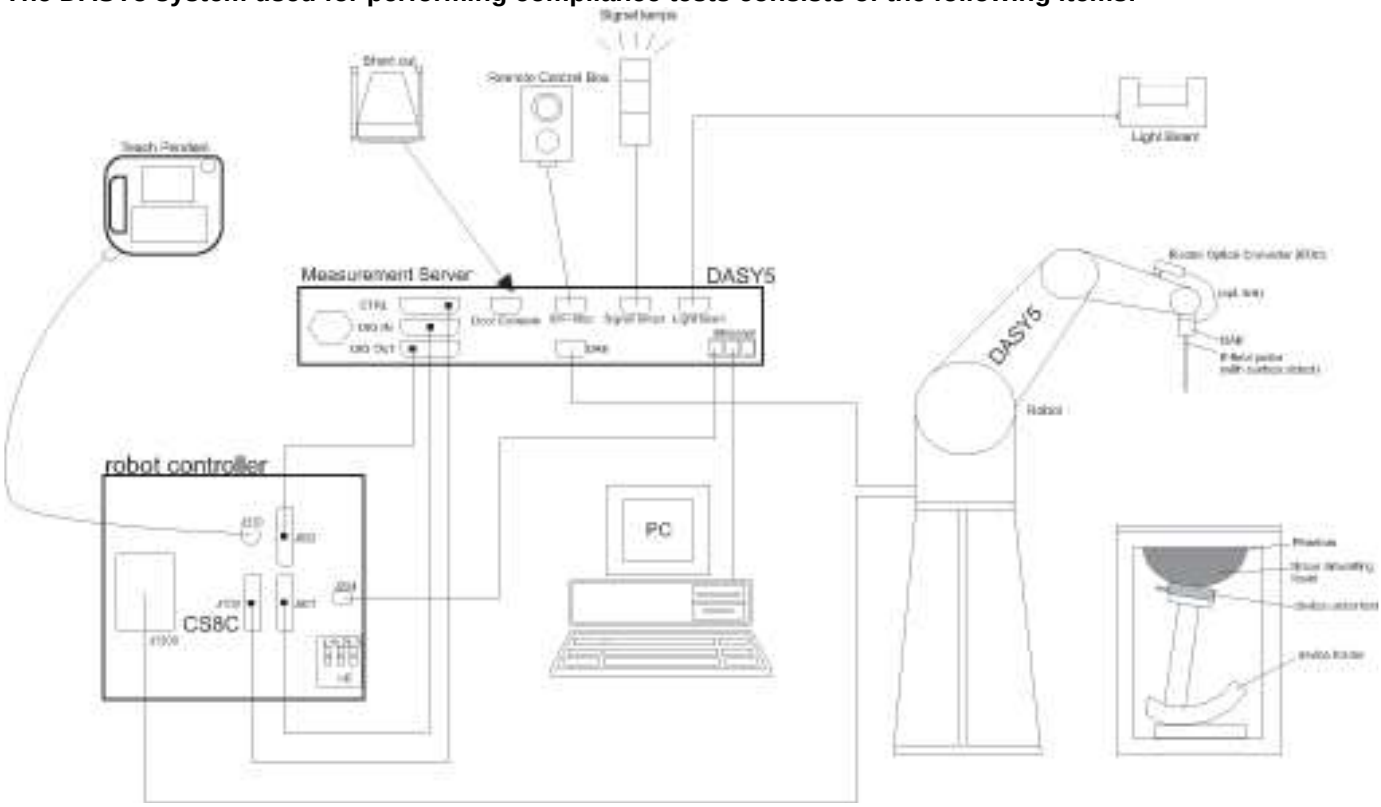
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	
SAR Lab F	
SAR Lab G	
SAR Lab H	

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

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



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

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2}\cdot\delta\cdot\ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
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 ≤ 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: Δx_{Zoom}, Δy_{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: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
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 *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power drift measurement

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

4.3. Test Equipment

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

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	8753ES	MY40001647	9/15/2018
Dielectric Probe kit	SPEAG	DAK-3.5	1087	11/14/2018
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	2/6/2019
Thermometer	Traceable Calibration Control Co.	4242	140493798	12/8/2018
Network Analyzer	Agilent	8753ES	MY40000980	5/14/2019
Dielectric Probe kit	SPEAG	DAK-3.5	1082	10/17/2018
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	10/17/2018
Thermometer	Traceable Calibration Control Co.	4242	140562250	11/7/2018

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	Agilent	N5181A	MY50140630	5/25/2019
Power Meter	HP	437B	3125U12345	8/10/2018
Power Meter	HP	437B	3125U11347	8/15/2018
Power Sensor	HP	8481A	1926A27048	8/10/2018
Power Sensor	HP	8481A	3318A92374	8/15/2018
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2141	N/A
DC Power Supply	HP	1611	215-02292	N/A
Synthesized Signal Generator	Agilent	N5181A	MY50140610	6/7/2019
Power Meter	Keysight	N1912A	MY55196004	7/14/2018
Power Sensor	Agilent	N1921A	MY53020038	4/23/2019
Power Sensor	Agilent	N1921A	MY52260009	1/8/2019
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	7356	4/24/2019
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3772	2/13/2019
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3749	1/16/2019
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3990	2/14/2019
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	3902	5/24/2019
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3989	1/16/2019
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	3929	3/16/2019
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3773	4/23/2019
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7483	12/12/2018
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	7448	4/16/2019
E-Field Probe (SAR Lab 3)	SPEAG	EX3DV4	7335	3/16/2019
E-Field Probe (SAR Lab 4)	SPEAG	EX3DV4	3871	8/23/2018
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1540	2/23/2019
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1352	11/8/2018
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4	1472	3/8/2019
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1433	3/7/2019
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1259	1/10/2019
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1377	10/11/2018
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1359	2/9/2019
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1257	10/11/2018
Data Acquisition Electronics (SAR Lab 1)	SPEAG	DAE4	1544	4/12/2019
Data Acquisition Electronics (SAR Lab 3)	SPEAG	DAE4	1434	5/11/2019
Data Acquisition Electronics (SAR Lab 4)	SPEAG	DAE4	1343	8/21/2018
System Validation Dipole	SPEAG	D750V3	1071	11/21/2018
System Validation Dipole	SPEAG	D835V2	4d002	11/21/2018
System Validation Dipole	SPEAG	D835V2	4d142	10/12/2018
System Validation Dipole	SPEAG	D1750V2	1053	8/24/2018
System Validation Dipole	SPEAG	D1750V2	1077	10/5/2018
System Validation Dipole	SPEAG	D1900V2	5d163	10/5/2018
System Validation Dipole	SPEAG	D1900V2	5d140	4/11/2019
System Validation Dipole	SPEAG	D1900V2	5d043	11/22/2018
System Validation Dipole	SPEAG	D2300V2	1002	3/16/2019
System Validation Dipole	SPEAG	D2300V2	1058	8/31/2018
System Validation Dipole	SPEAG	D2450V2	748	2/14/2019
System Validation Dipole	SPEAG	D2450V2	899	3/16/2019
System Validation Dipole	SPEAG	D2600V2	1006	10/5/2018
System Validation Dipole	SPEAG	D2600V2	1036	3/16/2018
System Validation Dipole	SPEAG	D5GHzV2	1003	3/13/2019
System Validation Dipole	SPEAG	D5GHzV2	1138	10/26/2018

Other

Name of Equipment	Manufacturer	Type/Model	T Number	Serial No.	Cal. Due Date
Power Meter	Agilent	N1912A	T733	MY50001018	10/17/2018
Power Sensor	Agilent	N1921A	T309	MY52270022	12/28/2018
DC Power Supply	HP	6296A	N/A	2841A-05955	N/A
Base station Simulator	R&S	CMW500	T978	137877	2/19/2019
Base station Simulator	R&S	CMW500	T960	135384	2/20/2019
Base station Simulator	R&S	CMW500	T948	135393	2/17/2019
Base station Simulator	R&S	CMW500	T958	134855	2/15/2019
Base station Simulator	R&S	CMW500	T259	124594	2/21/2019
Base station Simulator	R&S	CMW500	T1526	147543	2/17/2019
Base station Simulator	R&S	CMW500	T964	134853	2/16/2019
Base station Simulator	R&S	CMW500	T268	124593	2/22/2019
Base station Simulator	R&S	CMW500	T953	135390	2/16/2019
Base station Simulator	R&S	CMW500	T959	137873	2/17/2019
Base station Simulator	R&S	CMW500	T919	125236	2/21/2019

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 ≤ 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, Bluetooth, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either UICC based, electronic SIM (e-SIM), or second SIM is not present. The device has a built-in inductive charging receiver which is not user accessible. The rechargeable battery is not user accessible.

Model A2099, A2100 is electrically identical to Model A1920. Three model numbers are allocated for marketing and logistic purposes only.

This device has Four WWAN antennas (ANT1 , ANT2, ANT3, and ANT 4) 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 WiFi/Bluetooth radio modules: variant 1 and variant 2. The WiFi/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): 143.3 mm x 70.8 mm Overall Diagonal: 153 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 WWAN 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	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 2 Band 4 Band 5	UMTS Rel. 99 (Voice & Data) HSDPA (Rel. 5) HSUPA (Rel. 6) HSPA+ (Rel. 7) DC-HSDPA (Rel. 9)		100%
LTE[4]	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 14 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) FDD Band 66 FDD Band 71 **Carrier Aggregation**[3] FDD Band 7_2CC TDD Band 41_2CC	QPSK 16QAM 64AQM Carrier Aggregation (2 Uplinks and 4 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)		100% (802.11b) 98.87% (802.11g/n 20MHz BW)
	5 GHz[1]	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80)		98.92% (802.11a/n/ac 20MHz BW) 97.84% (802.11n/ac 40MHz BW) 95.59% (802.11n/ac 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	Version 5.0 LE		100%

Note(s):

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.
4. LTE Uplink Cat 13, LTE 3GPP Rel-13 (LTE 3GPP Rel-14 for B41 PC2)

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 [2]	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 [2]	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 [2]	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 [2]	5 MHz [2]	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			**23230/ 782**	23230/ 782		
	High				23255/ 784.5		

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies

Band 14	Frequency range: 788 - 798 MHz (BW = 10 MHz)					
	Channel Bandwidth					
	20 MHz	15 MHz	10 MHz [2]	5 MHz [2]	3 MHz	1.4 MHz
Low				23305/ 790.5		
Mid			**23330/ 793**	23330/ 793		
High				23355/ 795.5		

Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)					
	Channel Bandwidth					
	20 MHz	15 MHz	10 MHz [2]	5 MHz [2]	3 MHz	1.4 MHz
Low			23780/ 709	23755/ 706.5		
Mid			**23790/ 710**	23790/ 710		
High			23800/ 711	23825/ 713.5		

Band 25	Frequency range: 1850 - 1915 MHz (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 [2]	5 MHz	3 MHz	1.4 MHz
Low				27685/ 2307.5		
Mid			**27710/ 2310**	27710/ 2310		
High				27735/ 2312.5		

Band 41[1]	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**					

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies

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
Band 71	**Frequency range: 663 - 698 MHz (BW = 35 MHz)**					
	Channel Bandwidth					
	20 MHz [2]	**15 MHz [2]**	**10 MHz**	**5 MHz**	**3 MHz**	**1.4 MHz**
Low	133222/ 673	133197/ 670.5	133172/ 668	133147/ 665.5		
Mid	**133297/ 680.5**	133297/ 680.5	133297/ 680.5	133297/ 680.5		
High	133372/ 688	133397/ 690.5	133422/ 693	133447/ 695.5		

LTE transmitter and antenna implementation

LTE can transmit from either ANT1, ANT2, ANT3, and ANT4. 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

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

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

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.

Note(s):

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

6.4. LTE (TDD) Considerations

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

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

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-
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%(Power Class 3) and configuration 1 at 43.3%(Power Class 2) 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 (support all WWAN frequency bands) - located at lower right corner of the device.

ANT2 (support WWAN frequencies 663 MHz to 2700 MHz) - located at upper left corner of the device.

ANT3 (support WWAN frequencies 1700 MHz to 2700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at lower left corner of the device. CDMA BC1 is not supported for this antenna.

ANT4 (support WWAN frequencies 1700 MHz to 2700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at upper right corner of the device. CDMA BC1 is not supported for this antenna.

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

ANT6 (support Wi-Fi 5GHz 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 and Wi-Fi 2.4 GHz and Bluetooth (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/Airplay	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Airplay	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 (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 and Wi-Fi 2.4 GHz and Bluetooth (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/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	No	1
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/Airplay	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Airplay	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 ± 2°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 (εr) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within ± 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 εr and σ may be relaxed to ± 10%. This is limited to frequencies ≤ 3 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 (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
A	6/1/2018	2600	Head	2600	37.65	39.01	-3.49	1.94	1.96	-0.93
				2495	38.02	39.14	-2.87	1.82	1.85	-1.71
				2690	37.17	38.90	-4.44	2.03	2.06	-1.43
A	6/1/2018	2600	Body	2600	52.05	52.51	-0.88	2.21	2.16	2.05
				2495	52.35	52.64	-0.56	2.08	2.01	3.27
				2690	51.72	52.40	-1.29	2.30	2.29	0.42
A	6/5/2018	2600	Head	2600	37.50	39.01	-3.87	2.04	1.96	4.12
				2300	38.58	39.47	-2.26	1.70	1.66	2.30
				2690	37.11	38.90	-4.59	2.14	2.06	4.01
A	6/7/2018	2600	Body	2600	50.96	52.51	-2.95	2.24	2.16	3.66
				2495	50.95	52.64	-3.22	2.06	2.01	2.37
				2690	50.42	52.40	-3.77	2.39	2.29	4.45
A	6/10/2018	2600	Body	2600	51.12	52.51	-2.65	2.24	2.16	3.66
				2495	51.51	52.64	-2.15	2.11	2.01	4.76
				2690	50.92	52.40	-2.82	2.35	2.29	2.52
A	6/12/2018	2600	Head	2600	37.67	39.01	-3.44	2.01	1.96	2.34
				2495	38.02	39.14	-2.87	1.89	1.85	2.35
				2690	37.32	38.90	-4.06	2.11	2.06	2.36
A	6/15/2018	2600	Body	2600	52.39	52.51	-0.23	2.14	2.16	-0.87
				2495	51.71	52.64	-1.77	2.02	2.01	0.48
				2690	51.10	52.40	-2.48	2.24	2.29	-2.02
A	6/18/2018	2600	Head	2600	38.03	39.01	-2.51	2.02	1.96	3.05
				2495	38.32	39.14	-2.10	1.91	1.85	3.10
				2690	37.76	38.90	-2.92	2.11	2.06	2.55
A	6/19/2018	2600	Body	2600	50.42	52.51	-3.98	2.23	2.16	3.02
				2495	50.63	52.64	-3.82	2.11	2.01	4.66
				2690	49.99	52.40	-4.59	2.36	2.29	2.96
A	6/22/2018	2600	Head	2600	38.71	39.01	-0.77	2.03	1.96	3.46
				2495	39.05	39.14	-0.24	1.91	1.85	3.43
				2690	38.37	38.90	-1.36	2.13	2.06	3.28
A	6/23/2018	2600	Body	2600	51.68	52.51	-1.58	2.13	2.16	-1.38
				2495	51.96	52.64	-1.30	2.02	2.01	0.48
				2690	51.39	52.40	-1.92	2.24	2.29	-2.16

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	6/1/2018	1750	Head	1750	40.41	40.08	0.81	1.37	1.37	0.29
				1710	40.54	40.15	0.98	1.33	1.35	-0.92
				1755	40.41	40.08	0.83	1.38	1.37	0.45
B	6/4/2018	1750	Head	1750	38.99	40.08	-2.73	1.40	1.37	2.12
				1710	39.16	40.15	-2.46	1.36	1.35	1.31
				1755	38.97	40.08	-2.76	1.41	1.37	2.49
B	6/4/2018	1900	Head	1900	38.41	40.00	-3.98	1.42	1.40	1.43
				1850	38.75	40.00	-3.13	1.39	1.40	-1.00
				1920	38.45	40.00	-3.87	1.44	1.40	2.86
B	6/6/2018	1750	Body	1750	51.03	53.44	-4.51	1.48	1.49	-0.35
				1710	50.97	53.54	-4.81	1.47	1.46	0.44
				1755	50.94	53.43	-4.66	1.48	1.49	-0.42
B	6/6/2018	1900	Body	1900	52.20	53.30	-2.06	1.55	1.52	1.97
				1850	52.45	53.30	-1.59	1.48	1.52	-2.96
				1920	52.27	53.30	-1.93	1.57	1.52	3.55
B	6/9/2018	1750	Body	1750	54.74	53.44	2.43	1.51	1.49	1.47
				1710	54.88	53.54	2.50	1.46	1.46	-0.17
				1755	54.66	53.43	2.31	1.51	1.49	1.26
B	6/10/2018	1900	Body	1900	50.73	53.30	-4.82	1.53	1.52	0.59
				1850	50.82	53.30	-4.65	1.48	1.52	-2.57
				1920	50.69	53.30	-4.90	1.54	1.52	1.45
B	6/12/2018	1750	Head	1750	40.52	40.08	1.09	1.32	1.37	-3.29
				1710	40.69	40.15	1.35	1.28	1.35	-4.64
				1755	40.51	40.08	1.08	1.33	1.37	-3.34
B	6/14/2018	1750	Body	1750	51.24	53.44	-4.12	1.54	1.49	3.83
				1710	51.39	53.54	-4.02	1.51	1.46	3.18
				1755	51.22	53.43	-4.13	1.55	1.49	4.21
B	6/15/2018	1900	Body	1900	51.75	53.30	-2.91	1.59	1.52	4.61
				1850	51.82	53.30	-2.78	1.52	1.52	0.07
				1920	51.74	53.30	-2.93	1.59	1.52	4.80
B	6/16/2018	1900	Head	1900	38.24	40.00	-4.40	1.45	1.40	3.50
				1850	38.58	40.00	-3.55	1.40	1.40	0.00
				1920	38.20	40.00	-4.50	1.45	1.40	3.64
B	6/17/2018	1750	Head	1750	39.92	40.08	-0.41	1.39	1.37	1.61
				1710	40.02	40.15	-0.31	1.35	1.35	0.42
				1755	39.88	40.08	-0.49	1.40	1.37	1.91
B	6/18/2018	1750	Body	1750	51.40	53.44	-3.82	1.53	1.49	3.08
				1710	51.40	53.54	-4.00	1.50	1.46	2.56
				1755	51.40	53.43	-3.80	1.53	1.49	2.87
B	6/21/2018	1750	Head	1750	38.89	40.08	-2.98	1.36	1.37	-0.36
				1710	39.04	40.15	-2.76	1.32	1.35	-1.66
				1755	38.82	40.08	-3.14	1.37	1.37	-0.13
B	6/22/2018	1750	Body	1750	51.00	53.44	-4.57	1.43	1.49	-3.78
				1710	51.10	53.54	-4.56	1.39	1.46	-4.69
				1755	50.96	53.43	-4.62	1.43	1.49	-3.84

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	6/25/2018	1900	Head	1900	40.85	40.00	2.13	1.38	1.40	-1.79
				1850	41.05	40.00	2.62	1.34	1.40	-4.29
				1920	40.86	40.00	2.15	1.40	1.40	-0.14
B	6/25/2018	1900	Body	1900	51.97	53.30	-2.50	1.58	1.52	3.68
				1850	52.07	53.30	-2.31	1.53	1.52	0.86
				1920	51.99	53.30	-2.46	1.60	1.52	4.93
B	6/25/2018	2600	Head	2600	38.95	39.01	-0.16	1.94	1.96	-1.08
				2495	39.09	39.14	-0.14	1.87	1.85	1.32
				2690	38.79	38.90	-0.28	2.02	2.06	-1.96
C	6/1/2018	1900	Head	1900	38.83	40.00	-2.93	1.44	1.40	2.50
				1850	39.01	40.00	-2.48	1.39	1.40	-1.00
				1920	38.76	40.00	-3.10	1.46	1.40	4.07
C	6/4/2018	1900	Head	1900	39.67	40.00	-0.82	1.44	1.40	3.14
				1850	39.93	40.00	-0.18	1.39	1.40	-0.93
				1920	39.58	40.00	-1.05	1.47	1.40	4.79
C	6/7/2018	1900	Body	1900	51.13	53.30	-4.07	1.53	1.52	0.53
				1850	51.25	53.30	-3.85	1.47	1.52	-3.36
				1920	50.98	53.30	-4.35	1.56	1.52	2.50
C	6/9/2018	1900	Body	1900	51.18	53.30	-3.98	1.55	1.52	1.71
				1850	51.25	53.30	-3.85	1.50	1.52	-1.32
				1920	51.12	53.30	-4.09	1.57	1.52	3.55
C	6/12/2018	1900	Head	1900	39.99	40.00	-0.02	1.43	1.40	2.14
				1850	40.13	40.00	0.33	1.38	1.40	-1.79
				1920	39.87	40.00	-0.33	1.45	1.40	3.29
C	6/14/2018	1900	Body	1900	51.18	53.30	-3.98	1.54	1.52	1.32
				1850	51.45	53.30	-3.47	1.47	1.52	-3.36
				1920	51.16	53.30	-4.02	1.57	1.52	3.22
C	6/17/2018	1900	Head	1900	38.97	40.00	-2.58	1.42	1.40	1.43
				1850	39.25	40.00	-1.88	1.35	1.40	-3.36
				1920	38.92	40.00	-2.70	1.45	1.40	3.64
C	6/23/2018	2600	Head	2600	39.43	39.01	1.07	1.96	1.96	0.04
				2495	39.61	39.14	1.19	1.89	1.85	2.18
				2690	39.25	38.90	0.91	2.03	2.06	-1.33
C	6/26/2018	2450	Head	2450	39.69	39.20	1.25	1.84	1.80	2.22
				2400	39.85	39.30	1.41	1.81	1.75	3.33
				2480	39.67	39.16	1.30	1.87	1.83	2.05

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	6/1/2018	2300	Head	2300	38.10	39.47	-3.48	1.73	1.66	3.74
				2350	37.96	39.38	-3.62	1.78	1.71	4.18
				2400	37.71	39.30	-4.04	1.83	1.75	4.36
D	6/3/2018	2600	Head	2600	37.42	39.01	-4.08	2.00	1.96	1.98
				2495	37.77	39.14	-3.51	1.88	1.85	1.86
				2690	37.09	38.90	-4.65	2.10	2.06	1.82
D	6/4/2018	2300	Head	2300	39.04	39.47	-1.10	1.72	1.66	3.14
				2350	38.91	39.38	-1.21	1.77	1.71	3.59
				2400	38.69	39.30	-1.54	1.81	1.75	3.50
D	6/6/2018	2600	Body	2600	50.74	52.51	-3.37	2.23	2.16	3.25
				2350	51.49	52.84	-2.55	1.86	1.85	0.50
				2690	49.91	52.40	-4.75	2.37	2.29	3.48
D	6/6/2018	2300	Body	2300	50.87	52.90	-3.85	1.88	1.80	4.13
				2350	50.76	52.84	-3.93	1.91	1.85	3.36
				2400	50.50	52.77	-4.31	1.97	1.90	3.90
D	6/9/2018	2300	Body	2300	51.36	52.90	-2.92	1.82	1.80	0.69
				2350	51.20	52.84	-3.10	1.89	1.85	1.90
				2400	51.03	52.77	-3.30	1.93	1.90	1.74
D	6/9/2018	2600	Body	2600	52.59	52.51	0.15	2.16	2.16	-0.27
				2495	53.00	52.64	0.68	2.04	2.01	1.08
				2690	51.99	52.40	-0.78	2.27	2.29	-0.80
D	6/12/2018	2600	Body	2600	50.02	52.51	-4.74	2.20	2.16	1.77
				2495	50.37	52.64	-4.32	2.07	2.01	2.67
				2690	49.84	52.40	-4.88	2.31	2.29	0.77
D	6/12/2018	2300	Head	2300	39.48	39.47	0.02	1.73	1.66	3.68
				2350	39.20	39.38	-0.47	1.77	1.71	3.59
				2400	39.14	39.30	-0.40	1.84	1.75	4.93
D	6/13/2018	2300	Body	2300	51.82	52.90	-2.05	1.85	1.80	2.69
				2350	51.76	52.84	-2.04	1.88	1.85	1.74
				2400	51.56	52.77	-2.30	1.94	1.90	2.21
D	6/16/2018	2600	Body	2600	50.22	52.51	-4.36	2.19	2.16	1.40
				2495	50.55	52.64	-3.98	2.09	2.01	3.56
				2690	50.01	52.40	-4.56	2.30	2.29	0.69

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	6/18/2018	2300	Body	2300	50.78	52.90	-4.02	1.85	1.80	2.36
				2350	50.82	52.84	-3.82	1.89	1.85	2.34
				2400	50.61	52.77	-4.10	1.92	1.90	1.11
D	6/18/2018	2300	Head	2300	40.02	39.47	1.39	1.64	1.66	-1.31
				2350	39.85	39.38	1.18	1.70	1.71	-0.74
				2400	39.69	39.30	1.00	1.74	1.75	-0.72
D	6/20/2018	2600	Body	2600	51.45	52.51	-2.02	2.21	2.16	2.28
				2495	51.78	52.64	-1.64	2.08	2.01	3.32
				2690	51.16	52.40	-2.36	2.32	2.29	1.56
D	6/22/2018	2300	Body	2300	51.77	52.90	-2.14	1.87	1.80	3.52
				2350	51.57	52.84	-2.40	1.92	1.85	3.81
				2400	51.45	52.77	-2.51	1.97	1.90	3.95
D	6/22/2018	2300	Head	2300	39.04	39.47	-1.10	1.71	1.66	2.72
				2350	38.83	39.38	-1.41	1.77	1.71	3.41
				2400	38.68	39.30	-1.57	1.81	1.75	3.39
D	6/24/2018	2600	Head	2600	38.15	39.01	-2.21	2.03	1.96	3.25
				2495	38.55	39.14	-1.52	1.91	1.85	3.48
				2690	37.86	38.90	-2.67	2.12	2.06	2.79
D	6/24/2018	2600	Body	2600	50.24	52.51	-4.32	2.21	2.16	2.46
				2495	50.53	52.64	-4.01	2.09	2.01	3.96
				2690	49.98	52.40	-4.61	2.32	2.29	1.34
E	6/4/2018	5750	Body	5750	47.74	48.27	-1.11	5.92	5.94	-0.27
				5700	47.56	48.34	-1.62	5.92	5.88	0.64
				5850	47.49	48.20	-1.47	6.10	6.00	1.72
E	6/4/2018	5750	Head	5750	35.33	35.36	-0.09	5.01	5.21	-3.93
				5700	35.48	35.42	0.17	4.95	5.16	-4.06
				5850	35.22	35.30	-0.23	5.10	5.27	-3.32
E	6/6/2018	5750	Body	5750	47.15	48.27	-2.33	6.16	5.94	3.79
				5700	48.32	48.34	-0.05	5.93	5.88	0.96
				5850	47.21	48.20	-2.05	6.14	6.00	2.40
E	6/6/2018	5750	Head	5750	36.17	35.36	2.28	5.07	5.21	-2.83
				5700	36.13	35.42	2.01	5.01	5.16	-3.01
				5850	36.12	35.30	2.32	5.18	5.27	-1.75
E	6/9/2018	5750	Body	5750	46.47	48.27	-3.74	6.12	5.94	3.12
				5700	46.73	48.34	-3.34	5.85	5.88	-0.52
				5850	46.31	48.20	-3.92	6.17	6.00	2.77

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
E	6/10/2018	5750	Head	5750	34.72	35.36	-1.82	5.06	5.21	-3.04
				5700	34.40	35.42	-2.88	5.18	5.16	0.36
				5850	34.59	35.30	-2.01	5.25	5.27	-0.30
E	6/13/2018	5750	Body	5750	46.20	48.27	-4.30	6.03	5.94	1.52
				5700	46.42	48.34	-3.98	6.00	5.88	2.05
				5850	46.08	48.20	-4.40	6.12	6.00	2.03
E	6/13/2018	5750	Head	5750	34.31	35.36	-2.98	5.07	5.21	-2.74
				5700	34.47	35.42	-2.68	5.06	5.16	-2.08
				5850	34.17	35.30	-3.20	5.13	5.27	-2.69
E	6/17/2018	5750	Body	5750	46.32	48.27	-4.05	6.14	5.94	3.44
				5700	46.42	48.34	-3.98	6.01	5.88	2.20
				5850	46.04	48.20	-4.48	6.22	6.00	3.60
E	6/17/2018	5750	Head	5750	34.27	35.36	-3.09	5.27	5.21	1.14
				5700	34.79	35.42	-1.78	5.16	5.16	0.01
				5850	34.27	35.30	-2.92	5.28	5.27	0.15
E	6/18/2018	2450	Body	2450	51.18	52.70	-2.88	1.99	1.95	1.85
				2400	51.46	52.77	-2.49	1.97	1.90	3.58
				2480	51.04	52.66	-3.08	2.07	1.99	4.06
E	6/22/2018	2450	Body	2450	50.20	52.70	-4.74	2.03	1.95	4.15
				2400	50.38	52.77	-4.53	1.96	1.90	3.48
				2480	50.08	52.66	-4.90	2.07	1.99	3.81
E	6/23/2018	5750	Head	5750	35.74	35.36	1.07	5.15	5.21	-1.24
				5700	35.75	35.42	0.93	5.05	5.16	-2.14
				5850	35.52	35.30	0.62	5.24	5.27	-0.66
E	6/25/2018	5750	Body	5750	46.02	48.27	-4.67	5.98	5.94	0.71
				5700	45.98	48.34	-4.89	5.91	5.88	0.50
				5850	45.94	48.20	-4.69	6.11	6.00	1.90
E	6/28/2018	5750	Head	5750	35.95	35.36	1.66	5.31	5.21	1.79
				5700	36.03	35.42	1.72	5.28	5.16	2.24
				5850	35.87	35.30	1.61	5.43	5.27	2.94
F	6/3/2018	5250	Body	5250	48.32	48.95	-1.29	5.32	5.35	-0.60
				5150	48.04	49.09	-2.13	5.21	5.24	-0.43
				5350	47.67	48.82	-2.35	5.44	5.47	-0.61
F	6/3/2018	5600	Body	5600	47.36	48.48	-2.31	5.79	5.76	0.47
				5500	47.86	48.61	-1.55	5.63	5.64	-0.24
				5725	47.31	48.31	-2.07	5.90	5.91	-0.10
F	6/4/2018	5250	Head	5250	34.83	35.93	-3.07	4.70	4.70	0.00
				5150	34.77	36.05	-3.54	4.60	4.60	-0.06
				5350	34.54	35.82	-3.57	4.84	4.80	0.64

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	6/6/2018	5250	Body	5250	47.73	48.95	-2.50	5.19	5.35	-3.01
				5150	47.84	49.09	-2.54	5.07	5.24	-3.14
				5350	47.36	48.82	-2.98	5.36	5.47	-2.08
F	6/8/2018	5250	Head	5250	35.63	35.93	-0.84	4.56	4.70	-2.98
				5150	35.78	36.05	-0.74	4.48	4.60	-2.58
				5350	35.60	35.82	-0.61	4.64	4.80	-3.44
F	6/10/2018	5250	Body	5250	51.13	48.95	4.45	5.20	5.35	-2.91
				5150	51.20	49.09	4.30	5.08	5.24	-3.03
				5350	50.86	48.82	4.19	5.35	5.47	-2.15
F	6/12/2018	5250	Head	5250	36.54	35.93	1.69	4.92	4.70	4.65
				5150	36.78	36.05	2.03	4.79	4.60	4.13
				5350	36.35	35.82	1.48	4.97	4.80	3.51
F	6/14/2018	5250	Body	5250	49.02	48.95	0.14	5.46	5.35	2.04
				5150	49.24	49.09	0.31	5.29	5.24	1.00
				5350	48.71	48.82	-0.22	5.59	5.47	2.26
F	6/16/2018	5250	Head	5250	37.60	35.93	4.64	4.61	4.70	-2.04
				5150	37.73	36.05	4.67	4.49	4.60	-2.50
				5350	37.27	35.82	4.05	4.75	4.80	-1.15
F	6/18/2018	5250	Body	5250	46.78	48.95	-4.44	5.32	5.35	-0.54
				5150	46.87	49.09	-4.52	5.19	5.24	-0.85
				5350	46.60	48.82	-4.54	5.44	5.47	-0.47
F	6/20/2018	5250	Head	5250	37.08	35.93	3.19	4.64	4.70	-1.39
				5150	37.20	36.05	3.20	4.54	4.60	-1.37
				5350	36.97	35.82	3.21	4.79	4.80	-0.26
F	6/22/2018	5250	Body	5250	47.04	48.95	-3.91	5.23	5.35	-2.22
				5150	47.32	49.09	-3.60	5.11	5.24	-2.45
				5350	46.91	48.82	-3.91	5.40	5.47	-1.35
F	6/24/2018	5250	Head	5250	36.50	35.93	1.58	4.56	4.70	-3.04
				5150	36.52	36.05	1.31	4.48	4.60	-2.69
				5350	36.41	35.82	1.65	4.64	4.80	-3.53
F	6/28/2018	5250	Body	5250	46.92	48.95	-4.15	5.51	5.35	2.97
				5150	47.12	49.09	-4.01	5.37	5.24	2.46
				5350	46.64	48.82	-4.46	5.66	5.47	3.39
F	6/28/2018	5250	Head	5250	36.57	35.93	1.77	4.69	4.70	-0.32
				5150	36.73	36.05	1.89	4.57	4.60	-0.67
				5350	36.36	35.82	1.51	4.78	4.80	-0.47

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
G	6/3/2018	2450	Body	2450	50.19	52.70	-4.76	2.01	1.95	3.18
				2400	50.37	52.77	-4.55	1.99	1.90	4.69
				2480	50.14	52.66	-4.79	2.05	1.99	2.95
G	6/4/2018	2450	Head	2450	37.70	38.56	-2.23	1.88	1.80	4.33
				2400	37.77	39.30	-3.89	1.87	1.90	-1.48
				2480	37.61	39.16	-3.96	1.90	1.83	3.74
G	6/8/2018	2450	Body	2450	50.91	52.70	-3.40	1.98	1.95	1.64
				2400	51.00	52.77	-3.36	1.93	1.90	1.53
				2480	50.94	52.66	-3.27	2.00	1.99	0.44
G	6/8/2018	2450	Head	2450	37.50	39.20	-4.34	1.79	1.80	-0.50
				2400	37.67	39.30	-4.14	1.73	1.75	-1.01
				2480	37.54	39.16	-4.14	1.82	1.83	-0.90
G	6/12/2018	2450	Body	2450	50.75	52.70	-3.70	2.01	1.95	3.13
				2400	50.86	52.77	-3.62	1.98	1.90	4.27
				2480	50.77	52.66	-3.59	2.04	1.99	2.30
G	6/12/2018	2450	Head	2450	37.35	39.20	-4.72	1.85	1.80	2.78
				2400	37.50	39.30	-4.57	1.83	1.75	4.59
				2480	37.25	39.16	-4.88	1.88	1.83	2.38
G	6/15/2018	2450	Body	2450	52.12	52.70	-1.10	2.00	1.95	2.56
				2400	52.16	52.77	-1.16	1.95	1.90	2.74
				2480	52.09	52.66	-1.09	2.03	1.99	1.75
G	6/15/2018	2450	Head	2450	38.53	39.20	-1.71	1.83	1.80	1.50
				2400	38.79	39.30	-1.29	1.81	1.75	3.33
				2480	38.48	39.16	-1.74	1.86	1.83	1.29
G	6/19/2018	2450	Head	2450	38.62	39.20	-1.48	1.79	1.80	-0.61
				2400	38.65	39.30	-1.65	1.75	1.75	0.08
				2480	38.55	39.16	-1.56	1.81	1.83	-1.22
G	6/21/2018	2450	Body	2450	50.24	52.70	-4.67	2.02	1.95	3.79
				2400	50.27	52.77	-4.74	1.98	1.90	4.11
				2480	50.22	52.66	-4.64	2.05	1.99	2.90
G	6/22/2018	2600	Head	2600	37.84	39.01	-3.00	2.02	1.96	2.85
				2495	37.42	39.14	-4.40	1.91	1.85	3.05
				2690	38.01	38.90	-2.28	2.12	2.06	3.13
G	6/22/2018	2600	Body	2600	50.45	52.51	-3.92	2.22	2.16	2.51
				2495	50.64	52.64	-3.81	2.11	2.01	4.81
				2690	50.30	52.40	-4.00	2.30	2.29	0.60
G	6/26/2018	2600	Body	2600	51.08	52.51	-2.72	2.18	2.16	1.03
				2495	51.24	52.64	-2.67	2.10	2.01	4.06
				2690	50.92	52.40	-2.82	2.28	2.29	-0.28

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	6/3/2018	5600	Body	5600	46.95	48.48	-3.15	5.77	5.76	0.17
				5500	47.45	48.61	-2.39	5.61	5.64	-0.57
				5725	46.96	48.31	-2.79	5.89	5.91	-0.37
H	6/4/2018	5600	Head	5600	34.89	35.53	-1.81	4.85	5.06	-4.08
				5500	34.93	35.65	-2.01	4.79	4.96	-3.43
				5725	34.67	35.39	-2.04	4.96	5.19	-4.42
H	6/8/2018	5600	Body	5600	49.66	48.48	2.44	5.99	5.76	3.89
				5500	49.83	48.61	2.50	5.87	5.64	3.94
				5725	49.56	48.31	2.59	6.14	5.91	3.88
H	6/8/2018	5600	Head	5600	34.58	35.53	-2.68	5.29	5.06	4.48
				5500	34.96	35.65	-1.93	5.20	4.96	4.80
				5725	34.51	35.39	-2.49	5.41	5.19	4.18
H	6/11/2018	5600	Head	5600	35.75	35.53	0.61	5.17	5.06	2.09
				5500	35.85	35.65	0.57	5.06	4.96	2.00
				5725	35.66	35.39	0.76	5.32	5.19	2.48
H	6/13/2018	5600	Body	5600	47.32	48.48	-2.39	5.53	5.76	-4.04
				5500	47.12	48.61	-3.07	5.50	5.64	-2.49
				5725	46.95	48.31	-2.81	5.70	5.91	-3.43
H	6/15/2018	5600	Head	5600	34.75	35.53	-2.21	4.97	5.06	-1.76
				5500	34.90	35.65	-2.10	4.89	4.96	-1.37
				5725	34.63	35.39	-2.15	5.11	5.19	-1.56
H	6/17/2018	5600	Body	5600	46.72	48.48	-3.68	5.54	5.76	-3.87
				5500	47.13	48.61	-3.05	5.37	5.64	-4.90
				5725	46.68	48.31	-3.37	5.72	5.91	-3.21
H	6/19/2018	5750	Head	5750	34.53	35.36	-2.35	4.98	5.21	-4.46
				5700	34.47	35.42	-2.68	4.94	5.16	-4.41
				5850	34.39	35.30	-2.58	5.07	5.27	-3.78
H	6/20/2018	5600	Head	5600	35.60	35.53	0.19	4.98	5.06	-1.55
				5500	35.79	35.65	0.40	4.88	4.96	-1.49
				5725	35.42	35.39	0.08	5.12	5.19	-1.41
H	6/20/2018	5600	Body	5600	47.28	48.48	-2.47	5.65	5.76	-1.86
				5500	47.45	48.61	-2.39	5.51	5.64	-2.42
				5725	46.99	48.31	-2.73	5.83	5.91	-1.37
H	6/20/2018	5750	Body	5750	47.03	48.27	-2.58	5.83	5.94	-1.75
				5700	47.14	48.34	-2.49	5.78	5.88	-1.75
				5850	46.77	48.20	-2.97	5.98	6.00	-0.32
H	6/22/2018	5250	Body	5250	47.77	48.95	-2.41	5.16	5.35	-3.57
				5150	47.89	49.09	-2.44	5.06	5.24	-3.41
				5350	47.66	48.82	-2.37	5.34	5.47	-2.41
H	6/24/2018	5600	Head	5600	35.91	35.53	1.06	4.88	5.06	-3.52
				5500	35.89	35.65	0.68	4.78	4.96	-3.69
				5725	35.76	35.39	1.04	5.01	5.19	-3.51
H	6/25/2018	5600	Body	5600	46.27	48.48	-4.55	5.51	5.76	-4.32
				5500	46.46	48.61	-4.43	5.39	5.64	-4.44
				5725	45.98	48.31	-4.82	5.70	5.91	-3.43
H	6/28/2018	5600	Head	5600	34.47	35.53	-2.99	4.88	5.06	-3.52
				5500	34.49	35.65	-3.25	4.83	4.96	-2.62
				5725	34.30	35.39	-3.08	5.05	5.19	-2.74

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
1	5/31/2018	835	Body	835	53.15	55.20	-3.71	0.99	0.97	1.91
				805	53.50	55.33	-3.32	0.95	0.97	-1.55
				905	52.37	55.00	-4.78	1.06	1.05	0.33
1	6/2/2018	835	Body	835	54.25	55.20	-1.72	0.99	0.97	2.30
				805	54.77	55.33	-1.02	0.96	0.97	-0.76
				915	53.76	55.00	-2.25	1.08	1.06	1.98
1	6/4/2018	750	Body	750	54.42	55.55	-2.03	0.95	0.96	-0.86
				695	55.03	55.76	-1.31	0.90	0.96	-6.20
				790	54.19	55.39	-2.17	0.99	0.97	2.88
1	6/5/2018	835	Body	835	53.76	55.20	-2.60	0.98	0.97	1.41
				805	53.57	55.33	-3.19	0.94	0.97	-3.15
				915	52.30	55.00	-4.91	1.04	1.06	-1.70
1	6/5/2018	750	Body	750	53.08	55.55	-4.44	0.92	0.96	-4.16
				695	53.60	55.76	-3.87	0.86	0.96	-9.83
				790	52.65	55.39	-4.95	0.97	0.97	-0.10
1	6/7/2018	750	Body	750	57.49	55.55	3.50	0.98	0.96	1.59
				695	57.84	55.76	3.73	0.92	0.96	-3.98
				790	57.05	55.39	2.99	1.01	0.97	4.54
1	6/9/2018	835	Body	835	53.71	55.20	-2.70	1.00	0.97	3.40
				805	53.96	55.33	-2.48	0.96	0.97	-0.68
				905	52.97	55.00	-3.69	1.08	1.05	2.14
1	6/11/2018	835	Head	835	41.17	41.50	-0.80	0.90	0.90	-0.10
				805	41.51	41.68	-0.41	0.87	0.90	-2.98
				905	40.44	41.50	-2.55	0.97	0.97	-0.14
1	6/15/2018	1900	Body	1900	50.93	53.30	-4.45	1.53	1.52	0.66
				1850	51.11	53.30	-4.11	1.49	1.52	-2.11
				1920	50.85	53.30	-4.60	1.55	1.52	1.97
1	6/17/2018	1900	Head	1900	38.83	40.00	-2.93	1.43	1.40	1.86
				1850	39.10	40.00	-2.25	1.38	1.40	-1.57
				1920	38.77	40.00	-3.07	1.45	1.40	3.50
1	6/21/2018	1900	Head	1900	38.95	40.00	-2.62	1.44	1.40	3.07
				1850	39.17	40.00	-2.08	1.39	1.40	-0.64
				1920	38.84	40.00	-2.90	1.46	1.40	4.00
1	6/21/2018	750	Body	750	54.53	55.55	-1.83	0.96	0.96	-0.57
				660	56.26	55.89	0.65	0.89	0.96	-6.86
				790	54.85	55.39	-0.98	1.02	0.97	5.47
1	6/22/2018	2600	Head	2600	40.62	39.01	4.12	1.93	1.96	-1.49
				2495	40.64	39.14	3.82	1.82	1.85	-1.55
				2690	40.62	38.90	4.43	2.05	2.06	-0.46
1	6/25/2018	2600	Body	2600	50.41	52.51	-4.00	2.21	2.16	2.42
				2495	50.62	52.64	-3.84	2.10	2.01	4.51
				2690	50.57	52.40	-3.49	2.33	2.29	1.87

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
3	5/30/2018	750	Head	750	40.52	41.96	-3.44	0.93	0.89	3.71
				695	41.45	42.24	-1.88	0.88	0.89	-0.91
				790	40.07	41.76	-4.04	0.96	0.90	7.59
3	5/30/2018	750	Body	750	54.77	55.55	-1.40	0.97	0.96	0.84
				695	55.15	55.76	-1.09	0.92	0.96	-4.46
				790	54.06	55.39	-2.41	1.00	0.97	3.27
3	6/2/2018	750	Body	750	57.45	55.55	3.43	0.98	0.96	1.67
				695	57.96	55.76	3.95	0.93	0.96	-2.83
				790	57.03	55.39	2.96	1.02	0.97	5.57
3	6/2/2018	750	Head	750	42.69	41.96	1.74	0.94	0.89	4.69
				695	43.58	42.24	3.16	0.89	0.89	-0.26
				790	42.22	41.76	1.11	0.98	0.90	8.81
3	6/3/2018	750	Head	750	42.28	41.96	0.76	0.91	0.89	2.22
				695	43.18	42.24	2.22	0.86	0.89	-3.46
				790	42.09	41.76	0.80	0.95	0.90	5.99
3	6/3/2018	750	Body	750	53.73	55.55	-3.27	0.96	0.96	-0.76
				695	54.19	55.76	-2.81	0.91	0.96	-4.89
				790	53.07	55.39	-4.19	0.99	0.97	2.61
3	6/5/2018	750	Head	750	40.91	41.96	-2.51	0.90	0.89	0.78
				695	41.74	42.24	-1.19	0.86	0.89	-3.25
				790	40.03	41.76	-4.13	0.94	0.90	4.56
3	6/6/2018	750	Body	750	53.84	55.55	-3.07	0.96	0.96	0.09
				695	54.33	55.76	-2.56	0.91	0.96	-4.92
				790	53.09	55.39	-4.16	1.00	0.97	3.92
3	6/9/2018	5200	Body	5200	47.91	49.02	-2.26	5.15	5.29	-2.81
				5150	47.63	49.09	-2.97	5.11	5.24	-2.38
				5350	47.44	48.82	-2.82	5.38	5.47	-1.64
3	6/9/2018	5600	Body	5600	47.19	48.48	-2.66	5.68	5.76	-1.35
				5500	47.25	48.61	-2.80	5.54	5.64	-1.78
				5725	46.72	48.31	-3.29	5.87	5.91	-0.59
3	6/9/2018	5800	Body	5800	46.73	48.20	-3.05	5.99	6.00	-0.17
				5700	46.97	48.34	-2.84	5.80	5.88	-1.34
				5850	46.60	48.20	-3.32	6.04	6.00	0.65

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
3	6/13/2018	5200	Body	5200	47.36	49.02	-3.39	5.33	5.29	0.59
				5150	47.61	49.09	-3.01	5.29	5.24	1.10
				5350	47.07	48.82	-3.58	5.49	5.47	0.43
3	6/13/2018	5600	Body	5600	46.78	48.48	-3.50	5.85	5.76	1.54
				5500	46.87	48.61	-3.59	5.75	5.64	1.78
				5725	46.58	48.31	-3.58	5.99	5.91	1.44
3	6/17/2018	2450	Body	2450	50.48	52.70	-4.21	1.93	1.95	-0.82
				2400	50.56	52.77	-4.19	1.86	1.90	-1.95
				2480	50.44	52.66	-4.22	1.96	1.99	-1.77
3	6/19/2018	1900	Body	1900	52.69	53.30	-1.14	1.57	1.52	3.03
				1850	52.90	53.30	-0.75	1.51	1.52	-0.39
				1920	52.65	53.30	-1.22	1.59	1.52	4.67
3	6/21/2018	750	Head	750	40.51	41.96	-3.46	0.92	0.89	3.51
				660	42.70	42.42	0.65	0.85	0.89	-3.80
				790	40.89	41.76	-2.07	0.98	0.90	9.35
3	6/22/2018	2600	Body	2600	52.30	52.51	-0.40	2.24	2.16	3.80
				2495	52.44	52.64	-0.39	2.07	2.01	2.62
				2690	50.95	52.40	-2.76	2.35	2.29	2.70
4	5/30/2018	835	Head	835	42.81	41.50	3.16	0.94	0.90	4.87
				805	42.90	41.68	2.93	0.91	0.90	1.08
				905	41.80	41.50	0.72	1.00	0.97	2.83
4	5/30/2018	835	Body	835	53.75	55.20	-2.63	0.99	0.97	2.18
				805	53.87	55.33	-2.65	0.95	0.97	-1.85
				905	52.90	55.00	-3.82	1.05	1.05	-0.52
4	6/2/2018	835	Head	835	42.49	41.50	2.39	0.92	0.90	2.47
				805	43.18	41.68	3.60	0.89	0.90	-0.59
				915	41.93	41.50	1.04	1.01	0.98	2.55
4	6/5/2018	835	Head	835	43.44	41.50	4.67	0.93	0.90	2.97
				805	43.37	41.68	4.06	0.89	0.90	-0.96
				915	41.95	41.50	1.08	0.99	0.98	1.03
4	6/9/2018	5200	Body	5200	47.43	49.02	-3.24	5.33	5.29	0.63
				5150	47.31	49.09	-3.62	5.36	5.24	2.30
				5350	47.30	48.82	-3.11	5.43	5.47	-0.65
4	6/9/2018	5600	Body	5600	46.93	48.48	-3.19	5.80	5.76	0.61
				5500	46.91	48.61	-3.50	5.55	5.64	-1.60
				5725	46.80	48.31	-3.12	5.91	5.91	0.00
4	6/9/2018	5800	Body	5800	46.37	48.20	-3.80	6.18	6.00	3.03
				5700	46.66	48.34	-3.48	6.01	5.88	2.18
				5850	46.69	48.20	-3.13	6.14	6.00	2.40

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (εr)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
4	6/9/2018	835	Head	835	41.53	41.50	0.07	0.91	0.90	0.62
				805	41.94	41.68	0.63	0.88	0.90	-1.87
				905	40.78	41.50	-1.73	0.97	0.97	0.11
4	6/13/2018	5200	Body	5200	47.41	49.02	-3.28	5.35	5.29	1.12
				5150	47.75	49.09	-2.72	5.33	5.24	1.69
				5350	47.10	48.82	-3.52	5.58	5.47	2.02
4	6/13/2018	5600	Body	5600	46.61	48.48	-3.85	5.98	5.76	3.80
				5500	46.84	48.61	-3.65	5.82	5.64	3.16
				5725	46.50	48.31	-3.74	6.11	5.91	3.51
4	6/17/2018	1900	Head	1900	38.26	40.00	-4.35	1.43	1.40	2.36
				1850	38.48	40.00	-3.80	1.39	1.40	-0.86
				1920	38.17	40.00	-4.58	1.45	1.40	3.36
4	6/19/2018	5200	Body	5200	48.03	49.02	-2.02	5.49	5.29	3.73
				5150	48.27	49.09	-1.67	5.47	5.24	4.52
				5350	47.64	48.82	-2.41	5.72	5.47	4.54
4	6/21/2018	1900	Head	1900	38.18	40.00	-4.55	1.45	1.40	3.43
				1850	38.35	40.00	-4.13	1.39	1.40	-0.57
				1920	38.08	40.00	-4.80	1.46	1.40	4.29
4	6/22/2018	2600	Head	2600	39.97	39.01	2.46	1.89	1.96	-3.73
				2495	39.95	39.14	2.06	1.79	1.85	-2.96
				2690	39.94	38.90	2.68	2.03	2.06	-1.33
4	6/25/2018	835	Body	835	54.08	55.20	-2.03	0.95	0.97	-1.98
				805	54.28	55.33	-1.91	0.92	0.97	-4.68
				905	53.35	55.00	-3.00	1.03	1.05	-2.52
4	6/25/2018	835	Head	835	41.98	41.50	1.16	0.92	0.90	2.53
				805	42.03	41.68	0.84	0.91	0.90	1.50
				905	41.80	41.50	0.72	0.95	0.97	-2.56

8.2. System Check

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

System Performance Check Measurement Conditions:

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

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within ±10% of the manufacturer calibrated dipole SAR target. 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 ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
A	6/1/2018	Head	D2600V2 SN:1036	3/16/2019	5.830	58.30	54.54	6.89	2.520	25.20	24.56	2.61	1,2
A	6/1/2018	Body	D2600V2 SN:1036	3/16/2019	5.550	55.50	56.13	-1.12	2.420	24.20	25.04	-3.35	
A	6/5/2018	Head	D2600V2 SN:1036	3/16/2019	5.800	58.00	54.54	6.34	2.510	25.10	24.56	2.20	
A	6/7/2018	Body	D2600V2 SN:1006	10/5/2018	5.710	57.10	56.13	1.73	2.500	25.00	25.00	0.00	
A	6/10/2018	Body	D2600V2 SN:1036	3/16/2019	5.690	56.90	56.13	1.37	2.460	24.60	25.04	-1.76	
A	6/12/2018	Head	D2600V2 SN:1036	3/16/2019	5.820	58.20	54.54	6.71	2.520	25.20	24.56	2.61	
A	6/15/2018	Body	D2600V2 SN:1036	3/16/2019	5.430	54.30	56.13	-3.26	2.360	23.60	25.04	-5.75	
A	6/18/2018	Head	D2600V2 SN:1006	10/5/2018	6.020	60.20	55.73	8.02	2.610	26.10	25.08	4.07	3,4
A	6/19/2018	Body	D2600V2 SN:1006	10/5/2018	5.440	54.40	56.13	-3.08	2.370	23.70	25.00	-5.20	
A	6/22/2018	Head	D2600V2 SN:1036	3/16/2019	5.398	53.98	54.54	-1.03	2.340	23.40	24.56	-4.72	
A	6/23/2018	Body	D2600V2 SN:1036	3/16/2019	5.310	53.10	56.13	-5.40	2.300	23.00	25.04	-8.15	
B	6/1/2018	Head	D1750V2 SN:1053	8/24/2018	4.120	41.20	39.45	4.44	2.160	21.60	20.58	4.96	
B	6/4/2018	Head	D1750V2 SN:1053	8/24/2018	4.140	41.40	39.45	4.94	2.170	21.70	20.58	5.44	
B	6/4/2018	Head	D1900V2 SN:5d140	4/11/2019	4.140	41.40	38.93	6.34	2.100	21.00	20.14	4.27	5,6
B	6/6/2018	Body	D1750V2 SN:1053	8/24/2018	3.140	31.40	32.44	-3.21	1.660	16.60	17.31	-4.10	
B	6/6/2018	Body	D1900V2 SN:5d140	4/11/2019	4.120	41.20	41.00	0.49	2.120	21.20	21.05	0.71	
B	6/9/2018	Body	D1750V2 SN:1077	10/5/2018	3.980	39.80	37.34	6.59	2.090	20.90	19.98	4.60	7,8
B	6/10/2018	Body	D1900V2 SN:5d140	4/11/2019	4.180	41.80	41.00	1.95	2.120	21.20	21.05	0.71	
B	6/12/2018	Head	D1750V2 SN:1077	10/5/2018	3.660	36.60	36.26	0.94	1.940	19.40	19.34	0.31	
B	6/14/2018	Body	D1750V2 SN:1077	10/5/2018	3.890	38.90	37.34	4.18	2.060	20.60	19.98	3.10	
B	6/15/2018	Body	D1900V2 SN:5d140	4/11/2019	4.300	43.00	41.00	4.88	2.200	22.00	21.05	4.51	
B	6/16/2018	Head	D1900V2 SN:5d140	4/11/2019	4.000	40.00	38.93	2.75	2.040	20.40	20.14	1.29	
B	6/17/2018	Head	D1750V2 SN:1053	8/24/2018	3.790	37.90	39.45	-3.93	2.000	20.00	20.58	-2.82	
B	6/18/2018	Body	D1750V2 SN:1053	8/24/2018	3.130	31.30	32.44	-3.51	1.650	16.50	17.31	-4.68	
B	6/21/2018	Head	D1750V2 SN:1053	8/24/2018	3.680	36.80	39.45	-6.72	1.940	19.40	20.58	-5.73	9,10
B	6/22/2018	Body	D1750V2 SN:1053	8/24/2018	3.330	33.30	32.44	2.65	1.750	17.50	17.31	1.10	
B	6/25/2018	Head	D1900V2 SN:5d163	10/5/2018	4.030	40.30	38.77	3.95	2.040	20.40	20.10	1.49	11,12
B	6/25/2018	Body	D1900V2 SN:5d163	10/5/2018	4.280	42.80	42.99	-0.44	2.190	21.90	21.97	-0.32	
B	6/25/2018	Head	D2600V2 SN:1006	10/5/2018	5.630	56.30	55.73	1.02	2.530	25.30	25.08	0.88	13,14

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 %	
C	6/1/2018	Head	D1900V2 SN:5d140	4/11/2019	4.020	40.20	38.93	3.26	2.060	20.60	20.14	2.28	
C	6/4/2018	Head	D1900V2 SN:5d140	4/11/2019	4.260	42.60	38.93	9.43	2.170	21.70	20.14	7.75	15,16
C	6/7/2018	Body	D1900V2 SN:5d140	4/11/2019	4.220	42.20	41.00	2.93	2.180	21.80	21.05	3.56	
C	6/9/2018	Body	D1900V2 SN:5d140	4/11/2019	4.100	41.00	41.00	0.00	2.110	21.10	21.05	0.24	
C	6/12/2018	Head	D1900V2 SN:5d140	4/11/2019	4.150	41.50	38.93	6.60	2.120	21.20	20.14	5.26	
C	6/14/2018	Body	D1900V2 SN:5d140	4/11/2019	4.410	44.10	41.00	7.56	2.280	22.80	21.05	8.31	
C	6/17/2018	Head	D1900V2 SN:5d140	4/11/2019	4.050	40.50	38.93	4.03	2.070	20.70	20.14	2.78	
C	6/23/2018	Head	D2600V2 SN:1036	3/16/2019	5.720	57.20	54.54	4.88	2.560	25.60	24.56	4.23	17,18
C	6/26/2018	Head	D2450V2 SN:748	2/14/2019	5.690	56.90	52.94	7.48	2.640	26.40	24.60	7.32	19,20
D	6/1/2018	Head	D2300V2 SN:1058	8/31/2018	5.020	50.20	53.74	-6.59	2.360	23.60	25.31	-6.76	21,22
D	6/3/2018	Head	D2600V2 SN:1006	10/5/2018	5.530	55.30	55.73	-0.77	2.410	24.10	25.08	-3.91	
D	6/4/2018	Head	D2300V2 SN:1058	8/31/2018	5.070	50.70	53.74	-5.66	2.380	23.80	25.31	-5.97	
D	6/6/2018	Body	D2600V2 SN:1036	3/16/2019	5.410	54.10	56.13	-3.62	2.340	23.40	25.04	-6.55	
D	6/6/2018	Body	D2300V2 SN:1058	8/31/2018	5.060	50.60	54.14	-6.54	2.390	23.90	24.88	-3.94	
D	6/9/2018	Body	D2300V2 SN:1058	8/31/2018	5.360	53.60	54.14	-1.00	2.530	25.30	24.88	1.69	
D	6/9/2018	Body	D2600V2 SN:1036	3/16/2019	5.430	54.30	56.13	-3.26	2.360	23.60	25.04	-5.75	
D	6/12/2018	Body	D2600V2 SN:1006	10/5/2018	5.350	53.50	56.13	-4.69	2.330	23.30	25.00	-6.80	23,24
D	6/12/2018	Head	D2300V2 SN:1058	8/31/2018	5.070	50.70	53.74	-5.66	2.390	23.90	25.31	-5.57	
D	6/13/2018	Body	D2300V2 SN:1058	8/31/2018	5.120	51.20	54.14	-5.43	2.430	24.30	24.88	-2.33	
D	6/16/2018	Body	D2600V2 SN:1036	3/16/2019	5.270	52.70	56.13	-6.11	2.310	23.10	25.04	-7.75	
D	6/18/2018	Body	D2300V2 SN:1058	8/31/2018	5.090	50.90	54.14	-5.98	2.400	24.00	24.88	-3.54	
D	6/18/2018	Head	D2300V2 SN:1058	8/31/2018	5.100	51.00	53.74	-5.10	2.410	24.10	25.31	-4.78	
D	6/20/2018	Body	D2600V2 SN:1036	3/16/2019	5.120	51.20	56.13	-8.78	2.260	22.60	25.04	-9.74	25,26
D	6/22/2018	Body	D2300V2 SN:1002	3/16/2019	5.070	50.70	50.16	1.08	2.410	24.10	23.72	1.60	
D	6/22/2018	Head	D2300V2 SN:1002	3/16/2019	5.030	50.30	51.75	-2.80	2.380	23.80	24.68	-3.57	27,28
D	6/24/2018	Head	D2600V2 SN:1036	3/16/2019	5.650	56.50	54.54	3.59	2.470	24.70	24.56	0.57	
D	6/24/2018	Body	D2600V2 SN:1036	3/16/2019	5.570	55.70	56.13	-0.77	2.440	24.40	25.04	-2.56	

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 %	
E	6/4/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.700	77.00	73.90	4.19	2.160	21.60	20.60	4.85	
E	6/4/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.370	73.70	78.40	-5.99	2.110	21.10	22.20	-4.95	
E	6/6/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.630	76.30	73.90	3.25	2.110	21.10	20.60	2.43	
E	6/6/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	8.050	80.50	78.40	2.68	2.310	23.10	22.20	4.05	
E	6/9/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	6.750	67.50	73.90	-8.66	1.990	19.90	20.60	-3.40	
E	6/10/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.450	74.50	78.40	-4.97	2.130	21.30	22.20	-4.05	
E	6/13/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	8.110	81.10	73.90	9.74	2.260	22.60	20.60	9.71	29,30
E	6/13/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.110	71.10	78.40	-9.31	2.040	20.40	22.20	-8.11	
E	6/17/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	8.030	80.30	73.90	8.66	2.230	22.30	20.60	8.25	
E	6/17/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.780	77.80	78.40	-0.77	2.230	22.30	22.20	0.45	
E	6/18/2018	Body	D2450V2 SN:748	2/14/2019	5.320	53.20	50.95	4.42	2.440	24.40	23.80	2.52	31,32
E	6/22/2018	Body	D2450V2 SN:748	2/14/2019	5.420	54.20	50.95	6.38	2.500	25.00	23.80	5.04	
E	6/23/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.680	76.80	78.40	-2.04	2.200	22.00	22.20	-0.90	
E	6/25/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.010	70.10	73.90	-5.14	1.950	19.50	20.60	-5.34	
E	6/28/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.790	77.90	78.40	-0.64	2.230	22.30	22.20	0.45	
F	6/3/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.170	71.70	73.60	-2.58	2.020	20.20	20.50	-1.46	
F	6/3/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.890	78.90	77.70	1.54	2.200	22.00	21.70	1.38	
F	6/4/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.560	75.60	80.60	-6.20	2.150	21.50	23.20	-7.33	
F	6/6/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.360	73.60	73.60	0.00	2.080	20.80	20.50	1.46	
F	6/8/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.490	74.90	80.60	-7.07	2.150	21.50	23.20	-7.33	
F	6/10/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	6.710	67.10	73.60	-8.83	1.920	19.20	20.50	-6.34	33,34
F	6/12/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	8.080	80.80	80.60	0.25	2.300	23.00	23.20	-0.86	
F	6/14/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.030	70.30	73.60	-4.48	1.980	19.80	20.50	-3.41	
F	6/16/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.750	77.50	80.60	-3.85	2.260	22.60	23.20	-2.59	
F	6/18/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.570	75.70	73.60	2.85	2.130	21.30	20.50	3.90	
F	6/20/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.460	74.60	80.60	-7.44	2.110	21.10	23.20	-9.05	
F	6/22/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.180	71.80	73.60	-2.45	2.030	20.30	20.50	-0.98	
F	6/24/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.370	73.70	80.60	-8.56	2.120	21.20	23.20	-8.62	
F	6/28/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	6.760	67.60	73.60	-8.15	1.970	19.70	20.50	-3.90	
F	6/28/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.560	75.60	80.60	-6.20	2.170	21.70	23.20	-6.47	

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 %	
G	6/3/2018	Body	D2450V2 SN:899	3/16/2019	5.340	53.40	50.55	5.64	2.470	24.70	23.20	6.47	
G	6/4/2018	Head	D2450V2 SN:899	3/16/2019	5.560	55.60	51.75	7.44	2.570	25.70	24.20	6.20	
G	6/8/2018	Body	D2450V2 SN:899	3/16/2019	5.280	52.80	50.55	4.45	2.460	24.60	23.20	6.03	
G	6/8/2018	Head	D2450V2 SN:899	3/16/2019	5.190	51.90	51.75	0.29	2.400	24.00	24.20	-0.83	
G	6/12/2018	Body	D2450V2 SN:899	3/16/2019	5.310	53.10	50.55	5.04	2.450	24.50	23.20	5.60	
G	6/12/2018	Head	D2450V2 SN:899	3/16/2019	5.230	52.30	51.75	1.06	2.430	24.30	24.20	0.41	
G	6/15/2018	Body	D2450V2 SN:899	3/16/2019	4.750	47.50	50.55	-6.03	2.200	22.00	23.20	-5.17	
G	6/15/2018	Head	D2450V2 SN:899	3/16/2019	4.750	47.50	51.75	-8.21	2.210	22.10	24.20	-8.68	35,36
G	6/19/2018	Head	D2450V2 SN:899	3/16/2019	5.300	53.00	51.75	2.42	2.460	24.60	24.20	1.65	
G	6/21/2018	Body	D2450V2 SN:748	2/14/2019	5.560	55.60	50.95	9.13	2.560	25.60	23.80	7.56	37,38
G	6/22/2018	Head	D2600V2 SN:1036	3/16/2019	5.890	58.90	54.54	7.99	2.630	26.30	24.56	7.08	39,40
G	6/22/2018	Body	D2600V2 SN:1036	3/16/2019	5.710	57.10	56.13	1.73	2.520	25.20	25.04	0.64	
G	6/26/2018	Body	D2600V2 SN:1006	10/5/2018	5.780	57.80	56.13	2.98	2.550	25.50	25.00	2.00	41,42
H	6/3/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.970	79.70	77.70	2.57	2.270	22.70	21.70	4.61	
H	6/4/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.010	80.10	84.50	-5.21	2.260	22.60	24.00	-5.83	
H	6/8/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.380	83.80	77.70	7.85	2.360	23.60	21.70	8.76	
H	6/8/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.700	77.00	84.50	-8.88	2.170	21.70	24.00	-9.58	43,44
H	6/11/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.420	84.20	84.50	-0.36	2.370	23.70	24.00	-1.25	
H	6/13/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.970	79.70	77.70	2.57	2.240	22.40	21.70	3.23	
H	6/15/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.960	89.60	84.50	6.04	2.530	25.30	24.00	5.42	
H	6/17/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.440	84.40	77.70	8.62	2.380	23.80	21.70	9.68	
H	6/19/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.290	72.90	78.40	-7.02	2.080	20.80	22.20	-6.31	
H	6/20/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	9.170	91.70	84.50	8.52	2.600	26.00	24.00	8.33	
H	6/20/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.440	84.40	77.70	8.62	2.360	23.60	21.70	8.76	
H	6/20/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.590	75.90	73.90	2.71	2.130	21.30	20.60	3.40	
H	6/22/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.330	73.30	73.60	-0.41	2.100	21.00	20.50	2.44	
H	6/24/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.250	82.50	84.50	-2.37	2.350	23.50	24.00	-2.08	
H	6/25/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.630	76.30	77.70	-1.80	2.190	21.90	21.70	0.92	
H	6/28/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.120	81.20	84.50	-3.91	2.290	22.90	24.00	-4.58	

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 %	
1	5/31/2018	Body	D835V2 SN:4d002	11/21/2018	1.000	10.00	10.23	-2.25	0.661	6.61	6.80	-2.79	
1	6/2/2018	Body	D835V2 SN:4d002	11/21/2018	0.989	9.89	10.23	-3.32	0.650	6.50	6.80	-4.41	
1	6/4/2018	Body	D750V3 SN:1071	11/21/2018	0.858	8.58	8.52	0.70	0.574	5.74	5.69	0.88	
1	6/5/2018	Body	D835V2 SN:4d002	11/21/2018	1.020	10.20	10.23	-0.29	0.666	6.66	6.80	-2.06	
1	6/7/2018	Body	D750V3 SN:1071	11/21/2018	0.905	9.05	8.52	6.22	0.605	6.05	5.69	6.33	45,46
1	6/9/2018	Body	D835V2 SN:4d142	10/12/2018	1.030	10.30	9.63	6.96	0.678	6.78	6.27	8.13	47,48
1	6/11/2018	Head	D835V2 SN:4d002	11/21/2018	0.982	9.82	10.27	-4.38	0.644	6.44	6.76	-4.73	49,50
1	6/15/2018	Body	D1900V2 SN:5d043	11/22/2018	4.370	43.70	41.00	6.59	2.280	22.80	20.90	9.09	51,52
1	6/17/2018	Head	D1900V2 SN:5d043	11/22/2018	4.050	40.50	42.99	-5.79	2.070	20.70	22.17	-6.63	
1	6/20/2018	Body	D1900V2 SN:5d043	11/22/2018	4.360	43.60	41.00	6.34	2.270	22.70	20.90	8.61	
1	6/21/2018	Head	D1900V2 SN:5d043	11/22/2018	4.420	44.20	42.99	2.81	2.260	22.60	22.17	1.94	
1	6/21/2018	Body	D750V3 SN:1071	11/21/2018	0.878	8.78	8.52	3.05	0.584	5.84	5.69	2.64	
1	6/22/2018	Head	D2600V2 SN:1006	10/5/2018	5.540	55.40	55.73	-0.59	2.490	24.90	25.08	-0.72	
1	6/25/2018	Body	D2600V2 SN:1006	10/5/2018	5.250	52.50	56.13	-6.47	2.260	22.60	25.00	-9.60	53,54
3	5/30/2018	Head	D750V3 SN:1071	11/21/2018	0.901	9.01	8.59	4.89	0.592	5.92	5.73	3.32	
3	5/30/2018	Body	D750V3 SN:1071	11/21/2018	0.903	9.03	8.52	5.99	0.603	6.03	5.69	5.98	
3	6/2/2018	Body	D750V3 SN:1071	11/21/2018	0.909	9.09	8.52	6.69	0.607	6.07	5.69	6.68	55,56
3	6/2/2018	Head	D750V3 SN:1071	11/21/2018	0.903	9.03	8.59	5.12	0.592	5.92	5.73	3.32	
3	6/5/2018	Head	D750V3 SN:1071	11/21/2018	0.829	8.29	8.59	-3.49	0.545	5.45	5.73	-4.89	
3	6/6/2018	Body	D750V3 SN:1071	11/21/2018	0.893	8.93	8.52	4.81	0.594	5.94	5.69	4.39	
3	6/9/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.210	72.10	73.40	-1.77	2.060	20.60	20.60	0.00	
3	6/9/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.690	86.90	79.50	9.31	2.450	24.50	22.30	9.87	57,58
3	6/9/2018	Body	D5GHzV2 SN:1138 (5.8 GHz)	10/26/2018	7.230	72.30	76.80	-5.86	2.050	20.50	21.30	-3.76	
3	6/13/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	6.820	68.20	73.40	-7.08	1.930	19.30	20.60	-6.31	
3	6/13/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.130	81.30	79.50	2.26	2.290	22.90	22.30	2.69	
3	6/17/2018	Body	D2450V2 SN:899	3/16/2019	5.210	52.10	50.55	3.07	2.420	24.20	23.20	4.31	59,60
3	6/19/2018	Body	D1900V2 SN:5d043	11/22/2018	4.070	40.70	41.00	-0.73	2.120	21.20	20.90	1.44	61,62
3	6/21/2018	Head	D750V3 SN:1071	11/21/2018	0.862	8.62	8.59	0.35	0.567	5.67	5.73	-1.05	
3	6/22/2018	Body	D2600V2 SN:1006	10/5/2018	5.940	59.40	56.13	5.83	2.610	26.10	25.00	4.40	63,64

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 %	
4	5/30/2018	Head	D835V2 SN:4d142	10/12/2018	1.030	10.30	9.64	6.85	0.676	6.76	6.22	8.68	65,66
4	5/30/2018	Body	D835V2 SN:4d142	10/12/2018	0.975	9.75	9.63	1.25	0.646	6.46	6.27	3.03	
4	6/2/2018	Head	D835V2 SN:4d142	10/12/2018	1.010	10.10	9.64	4.77	0.664	6.64	6.22	6.75	
4	6/5/2018	Head	D835V2 SN:4d142	10/12/2018	1.010	10.10	9.64	4.77	0.665	6.65	6.22	6.91	
4	6/9/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	6.830	68.30	73.40	-6.95	1.940	19.40	20.60	-5.83	
4	6/9/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.520	85.20	79.50	7.17	2.340	23.40	22.30	4.93	
4	6/9/2018	Body	D5GHzV2 SN:1138 (5.8 GHz)	10/26/2018	8.000	80.00	76.80	4.17	2.210	22.10	21.30	3.76	
4	6/9/2018	Head	D835V2 SN:4d002	11/21/2018	1.010	10.10	10.27	-1.66	0.629	6.29	6.76	-6.95	67,68
4	6/13/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.350	73.50	73.40	0.14	2.090	20.90	20.60	1.46	
4	6/13/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.310	83.10	79.50	4.53	2.290	22.90	22.30	2.69	
4	6/17/2018	Head	D1900V2 SN:5d043	11/22/2018	3.970	39.70	42.99	-7.65	2.040	20.40	22.17	-7.98	69,70
4	6/19/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.930	79.30	73.40	8.04	2.240	22.40	20.60	8.74	71,72
4	6/21/2018	Head	D1900V2 SN:5d043	11/22/2018	4.130	41.30	42.99	-3.93	2.120	21.20	22.17	-4.38	
4	6/22/2018	Head	D2600V2 SN:1006	10/5/2018	5.110	51.10	55.73	-8.31	2.290	22.90	25.08	-8.69	73,74
4	6/25/2018	Body	D835V2 SN:4d142	10/12/2018	0.983	9.83	9.63	2.08	0.651	6.51	6.27	3.83	
4	6/25/2018	Head	D835V2 SN:4d142	10/12/2018	0.976	9.76	9.64	1.24	0.638	6.38	6.22	2.57	

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 of ± 0.5 dB for modulations other than LTE 2CA, where a ± 1.0 dB tolerance is included. 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 for GSM:

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

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

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

Per October 2013 TCB Workshop:

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

Maximum Output Power (Tune-up Limit) for GSM

SAR is not required for EDGE (8PSK) mode because the maximum output power and tune-up limit is ≤ 1/4dB higher than GPRS/EDGE (GMSK) or the adjusted SAR of the highest reported SAR of GPRS/EDGE (GMSK) is ≤ 1.2W/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)	33.00	33.00	31.00	31.00				
	GPRS 2 slots	32.00	32.00	30.00	30.00				
	EGPRS 1 slot	27.50	27.50	25.50	25.50				
	EGPRS 2 slots	26.50	26.50	24.50	24.50				
GSM1900	Voice/GPRS (1 slot)	31.50	30.50	29.00	29.00	31.00	30.00	29.00	29.00
	GPRS 2 slots	30.50	27.50	26.50	26.20	30.00	27.00	27.00	27.50
	EGPRS 1 slot	26.50	26.50	24.00	24.00	26.00	26.00	24.00	24.00
	EGPRS 2 slots	25.50	25.50	23.00	23.00	25.00	25.00	23.00	23.00

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	32.00	22.97	33.00	23.97	32.00	22.97	33.00	23.97
			190	836.6	32.00	22.97			32.00	22.97		
			251	848.8	32.00	22.97			32.00	22.97		
		2	128	824.2	31.00	24.98	32.00	**25.98**	31.00	24.98	32.00	**25.98**
			190	836.6	31.00	24.98			31.00	24.98		
			251	848.8	31.00	24.98			31.00	24.98		
EDGE (8PSK)	MCS5	1	128	824.2	26.50	17.47	27.50	18.47	26.50	17.47	27.50	18.47
			190	836.6	26.50	17.47			26.50	17.47		
			251	848.8	26.50	17.47			26.50	17.47		
		2	128	824.2	25.50	19.48	26.50	20.48	25.50	19.48	26.50	20.48
			190	836.6	25.50	19.48			25.50	19.48		
			251	848.8	25.50	19.48			25.50	19.48		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

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	30.00	20.97	31.00	21.97	30.00	20.97	31.00	21.97
			190	836.6	30.00	20.97			30.00	20.97		
			251	848.8	30.00	20.97			30.00	20.97		
		2	128	824.2	29.00	22.98	30.00	**23.98**	29.00	22.98	30.00	**23.98**
			190	836.6	29.00	22.98			29.00	22.98		
			251	848.8	29.00	22.98			29.00	22.98		
EDGE (8PSK)	MCS5	1	128	824.2	25.50	16.47	25.50	16.47	25.50	16.47	25.50	16.47
			190	836.6	25.50	16.47			25.50	16.47		
			251	848.8	25.50	16.47			25.50	16.47		
		2	128	824.2	24.50	18.48	24.50	18.48	24.50	18.48	24.50	18.48
			190	836.6	24.50	18.48			24.50	18.48		
			251	848.8	24.50	18.48			24.50	18.48		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

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	30.50	21.47	31.50	22.47	30.50	21.47	30.50	21.47
			661	1880.0	30.50	21.47			30.40	21.37		
			810	1909.8	30.50	21.47			30.40	21.37		
		2	512	1850.2	29.50	23.48	30.50	**24.48**	27.50	21.48	27.50	**21.48**
			661	1880.0	29.50	23.48			27.40	21.38		
			810	1909.8	29.50	23.48			27.30	21.28		
EDGE (8PSK)	MCS5	1	512	1850.2	25.50	16.47	26.50	17.47	25.50	16.47	26.50	17.47
			661	1880.0	25.50	16.47			25.50	16.47		
			810	1909.8	25.50	16.47			25.50	16.47		
		2	512	1850.2	25.00	18.98	25.50	19.48	25.00	18.98	25.50	19.48
			661	1880.0	25.00	18.98			25.00	18.98		
			810	1909.8	25.00	18.98			25.00	18.98		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

GSM1900 Measured Results (ANT2)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	29.00	19.97	29.00	19.97	29.00	19.97	29.00	19.97
			661	1880.0	29.00	19.97			29.00	19.97		
			810	1909.8	29.00	19.97			29.00	19.97		
		2	512	1850.2	26.20	20.18	26.50	**20.48**	26.20	20.18	26.20	**20.18**
			661	1880.0	26.20	20.18			26.20	20.18		
			810	1909.8	26.10	20.08			26.10	20.08		
EDGE (8PSK)	MCS5	1	512	1850.2	24.00	14.97	24.00	14.97	24.00	14.97	24.00	14.97
			661	1880.0	24.00	14.97			24.00	14.97		
			810	1909.8	24.00	14.97			24.00	14.97		
		2	512	1850.2	23.00	16.98	23.00	16.98	23.00	16.98	23.00	16.98
			661	1880.0	23.00	16.98			23.00	16.98		
			810	1909.8	23.00	16.98			23.00	16.98		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

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	31.00	21.97	31.00	21.97	29.70	20.67	30.00	20.97
			661	1880.0	30.80	21.77			29.80	20.77		
			810	1909.8	30.70	21.67			29.70	20.67		
		2	512	1850.2	29.30	23.28	30.00	**23.98**	26.70	20.68	27.00	**20.98**
			661	1880.0	29.20	23.18			26.80	20.78		
			810	1909.8	29.10	23.08			26.70	20.68		
EDGE (8PSK)	MCS5	1	512	1850.2	25.90	16.87	26.00	16.97	25.90	16.87	26.00	16.97
			661	1880.0	25.80	16.77			25.80	16.77		
			810	1909.8	25.80	16.77			25.80	16.77		
		2	512	1850.2	25.00	18.98	25.00	18.98	25.00	18.98	25.00	18.98
			661	1880.0	25.00	18.98			25.00	18.98		
			810	1909.8	25.00	18.98			25.00	18.98		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

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	28.00	18.97	29.00	19.97	28.00	18.97	29.00	19.97
			661	1880.0	28.00	18.97			28.00	18.97		
			810	1909.8	28.00	18.97			28.00	18.97		
		2	512	1850.2	26.83	20.81	27.00	**20.98**	27.50	21.48	27.50	**21.48**
			661	1880.0	26.75	20.73			27.50	21.48		
			810	1909.8	26.90	20.88			27.41	21.39		
EDGE (8PSK)	MCS5	1	512	1850.2	24.00	14.97	24.00	14.97	24.00	14.97	24.00	14.97
			661	1880.0	24.00	14.97			24.00	14.97		
			810	1909.8	24.00	14.97			24.00	14.97		
		2	512	1850.2	23.00	16.98	23.00	16.98	23.00	16.98	23.00	16.98
			661	1880.0	23.00	16.98			23.00	16.98		
			810	1909.8	23.00	16.98			23.00	16.98		

Note(s):
GPRS/EDGE (GMSK) mode with 2 time slots for power Mode A and 2 time slots for power Mode B, based on the Tune-up Procedure.

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 are illustrated below:

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

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in table C.10.1.4 of 3GPP TS 34.121-1
A summary of these settings are 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} (Note1, 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 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 β_c = 11/15 and β_d = 15/15.

HSUPA Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in table C.11.1.3 of 3GPP TS 34.121-1. A summary of these settings are 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} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (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	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed}1: 47/15 β_{ed}2: 47/15	4 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

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

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH 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 Release 8 procedures in table C08.1.12 of 3GPP TS 34.121-1. A summary of subtest settings are 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	Proces ses	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

HSPA+ Setup Procedures used to establish the test signals

The following 1 Sub-test was completed according to Release 7 procedures in table C.11.1.4 of 3GPP TS34.121. A summary of these settings are illustrated below:

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed}1$: 30/15 $\beta_{ed}2$: 30/15	$\beta_{ed}3$: 24/15 $\beta_{ed}4$: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is 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 ≤ ¼ 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	25.50	21.00	18.50	17.70	25.00	19.50	20.20	20.50
	HSDPA	25.50	21.00	18.50	17.70	25.00	19.50	20.20	20.50
	HSUPA	25.50	21.00	18.50	17.70	25.00	19.50	20.20	20.50
	DC-HSDPA	25.50	21.00	18.50	17.70	25.00	19.50	20.20	20.50
	HSPA+	25.50	21.00	18.50	17.70	25.00	19.50	20.20	20.50
W-CDMA Band 4	R99	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
	HSDPA	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
	HSUPA	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
	DC-HSDPA	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
	HSPA+	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
W-CDMA Band 5	R99	25.50	25.50	24.50	24.50				
	HSDPA	25.50	25.50	24.50	24.50				
	HSUPA	25.50	25.50	24.50	24.50				
	DC-HSDPA	25.50	25.50	24.50	24.50				
	HSPA+	25.50	25.50	24.50	24.50				

W-CDMA Band 2 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	24.50	N/A	25.50	20.30	N/A	21.00
		9400	1880.0	24.50			20.30		
		9538	1907.6	24.50			20.20		
HSDPA	Subtest 1	9262	1852.4	24.50	0	25.50	20.10	0	21.00
		9400	1880.0	24.50			20.10		
		9538	1907.6	24.50			20.10		
	Subtest 2	9262	1852.4	24.50	0	25.50	20.10	0	21.00
		9400	1880.0	24.50			20.20		
		9538	1907.6	24.50			20.10		
	Subtest 3	9262	1852.4	24.00	0.5	25.00	19.60	0.5	20.50
		9400	1880.0	24.00			19.60		
		9538	1907.6	24.00			19.70		
	Subtest 4	9262	1852.4	24.00	0.5	25.00	19.60	0.5	20.50
		9400	1880.0	24.00			19.60		
		9538	1907.6	24.00			19.60		
HSUPA	Subtest 1	9262	1852.4	24.50	0	25.50	20.10	0	21.00
		9400	1880.0	24.50			20.10		
		9538	1907.6	24.50			20.00		
	Subtest 2	9262	1852.4	22.70	2	23.50	18.20	2	19.00
		9400	1880.0	22.70			18.10		
		9538	1907.6	22.60			18.10		
	Subtest 3	9262	1852.4	23.60	1	24.50	19.10	1	20.00
		9400	1880.0	23.50			19.20		
		9538	1907.6	23.60			19.10		
	Subtest 4	9262	1852.4	22.90	2	23.50	18.20	2	19.00
		9400	1880.0	22.90			18.20		
		9538	1907.6	23.00			18.00		
	Subtest 5	9262	1852.4	24.50	0	25.50	20.20	0	21.00
		9400	1880.0	24.50			20.10		
		9538	1907.6	24.50			20.20		
DC-HSDPA	Subtest 1	9262	1852.4	24.50	0	25.50	20.20	0	21.00
		9400	1880.0	24.50			20.10		
		9538	1907.6	24.50			20.20		
	Subtest 2	9262	1852.4	24.50	0	25.50	20.10	0	21.00
		9400	1880.0	24.50			20.20		
		9538	1907.6	24.50			20.20		
	Subtest 3	9262	1852.4	24.00	0.5	25.00	19.70	0.5	20.50
		9400	1880.0	24.00			19.60		
		9538	1907.6	24.00			19.60		
	Subtest 4	9262	1852.4	24.00	0.5	25.00	19.60	0.5	20.50
		9400	1880.0	24.00			19.70		
		9538	1907.6	24.00			19.60		
HSPA+	Subtest 1	9262	1852.4	22.00	2.5	23.00	17.50	2.5	18.50
		9400	1880.0	22.10			17.50		
		9538	1907.6	22.20			17.50		

W-CDMA Band 2 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	18.50	N/A	18.50	17.70	N/A	17.70
		9400	1880.0	18.50			17.70		
		9538	1907.6	18.50			17.50		
HSDPA	Subtest 1	9262	1852.4	18.40	0	18.50	17.50	0	17.70
		9400	1880.0	18.30			17.40		
		9538	1907.6	18.30			17.50		
	Subtest 2	9262	1852.4	18.30	0	18.50	17.50	0	17.70
		9400	1880.0	18.30			17.40		
		9538	1907.6	18.40			17.40		
	Subtest 3	9262	1852.4	17.80	0.5	18.00	17.00	0.5	17.20
		9400	1880.0	17.80			17.00		
		9538	1907.6	17.80			17.00		
	Subtest 4	9262	SAR	17.90	0.5	18.00	17.10	0.5	17.20
		9400	1880.0	17.80			17.10		
		9538	1907.6	17.90			17.00		
HSUPA	Subtest 1	9262	1852.4	18.40	0	18.50	17.50	0	17.70
		9400	1880.0	18.30			17.50		
		9538	1907.6	18.30			17.60		
	Subtest 2	9262	1852.4	16.40	2	16.50	15.60	2	15.70
		9400	1880.0	16.40			15.60		
		9538	1907.6	16.30			15.60		
	Subtest 3	9262	1852.4	17.20	1	17.50	16.50	1	16.70
		9400	1880.0	17.40			16.50		
		9538	1907.6	17.30			16.50		
	Subtest 4	9262	1852.4	16.40	2	16.50	15.50	2	15.70
		9400	1880.0	16.30			15.50		
		9538	1907.6	16.20			15.50		
	Subtest 5	9262	1852.4	18.30	0	18.50	17.50	0	17.70
		9400	1880.0	18.30			17.60		
		9538	1907.6	18.30			17.40		
DC-HSDPA	Subtest 1	9262	1852.4	18.40	0	18.50	17.60	0	17.70
		9400	1880.0	18.40			17.50		
		9538	1907.6	18.30			17.50		
	Subtest 2	9262	1852.4	18.30	0	18.50	17.60	0	17.70
		9400	1880.0	18.30			17.50		
		9538	1907.6	18.30			17.40		
	Subtest 3	9262	1852.4	17.80	0.5	18.00	16.90	0.5	17.20
		9400	1880.0	17.90			17.00		
		9538	1907.6	17.80			17.00		
	Subtest 4	9262	1852.4	17.80	0.5	18.00	17.00	0.5	17.20
		9400	1880.0	17.70			17.00		
		9538	1907.6	17.90			17.00		
HSPA+	Subtest 1	9262	1852.4	16.00	2.5	16.00	15.00	2.5	15.20
		9400	1880.0	16.00			15.10		
		9538	1907.6	16.00			15.10		

W-CDMA Band 2 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	24.00	N/A	25.00	19.20	N/A	19.50
		9400	1880.0	24.00			19.20		
		9538	1907.6	24.00			19.20		
HSDPA	Subtest 1	9262	1852.4	24.00	0	25.00	19.20	0	19.50
		9400	1880.0	24.00			19.20		
		9538	1907.6	24.00			19.20		
	Subtest 2	9262	1852.4	24.00	0	25.00	19.20	0	19.50
		9400	1880.0	24.00			19.20		
		9538	1907.6	24.00			19.20		
	Subtest 3	9262	1852.4	23.50	0.5	24.50	19.00	0.5	19.00
		9400	1880.0	23.78			19.00		
		9538	1907.6	23.74			19.00		
	Subtest 4	9262	1852.4	23.50	0.5	24.50	19.00	0.5	19.00
		9400	1880.0	23.74			19.00		
		9538	1907.6	23.52			19.00		
HSUPA	Subtest 1	9262	1852.4	24.00	0	25.00	19.00	0	19.50
		9400	1880.0	24.00			19.00		
		9538	1907.6	24.00			19.00		
	Subtest 2	9262	1852.4	22.00	2	23.00	17.50	2	17.50
		9400	1880.0	22.46			17.50		
		9538	1907.6	22.34			17.50		
	Subtest 3	9262	1852.4	23.00	1	24.00	18.50	1	18.50
		9400	1880.0	23.08			18.50		
		9538	1907.6	23.00			18.50		
	Subtest 4	9262	1852.4	22.00	2	23.00	17.50	2	17.50
		9400	1880.0	22.74			17.50		
		9538	1907.6	22.61			17.50		
	Subtest 5	9262	1852.4	24.00	0	25.00	19.00	0	19.50
		9400	1880.0	24.00			19.00		
		9538	1907.6	24.00			19.00		
DC-HSDPA	Subtest 1	9262	1852.4	24.00	0	25.00	19.00	0	19.50
		9400	1880.0	24.00			18.90		
		9538	1907.6	24.00			18.90		
	Subtest 2	9262	1852.4	24.00	0	25.00	19.00	0	19.50
		9400	1880.0	24.00			18.80		
		9538	1907.6	24.00			18.90		
	Subtest 3	9262	1852.4	23.60	0.5	24.50	19.00	0.5	19.00
		9400	1880.0	23.50			18.90		
		9538	1907.6	23.50			18.90		
	Subtest 4	9262	1852.4	23.50	0.5	24.50	19.00	0.5	19.00
		9400	1880.0	23.50			18.90		
		9538	1907.6	23.60			19.00		
HSPA+	Subtest 1	9262	1852.4	22.50	2.5	22.50	16.00	2.5	17.00
		9400	1880.0	22.50			16.00		
		9538	1907.6	22.50			16.00		

W-CDMA Band 2 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	20.10	N/A	20.20	20.00	N/A	20.50
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.10		
HSDPA	Subtest 1	9262	1852.4	20.20	0	20.20	20.00	0	20.50
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.00		
	Subtest 2	9262	1852.4	20.20	0	20.20	20.00	0	20.50
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.00		
	Subtest 3	9262	1852.4	19.70	0.5	19.70	20.00	0.5	20.00
		9400	1880.0	19.70			20.00		
		9538	1907.6	19.70			20.00		
	Subtest 4	9262	1852.4	19.70	0.5	19.70	20.00	0.5	20.00
		9400	1880.0	19.70			20.00		
		9538	1907.6	19.70			20.00		
HSUPA	Subtest 1	9262	1852.4	20.20	0	20.20	20.00	0	20.50
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.00		
	Subtest 2	9262	1852.4	18.20	2	18.20	18.50	2	18.50
		9400	1880.0	18.20			18.50		
		9538	1907.6	18.20			18.50		
	Subtest 3	9262	1852.4	19.20	1	19.20	19.50	1	19.50
		9400	1880.0	19.20			19.50		
		9538	1907.6	19.20			19.50		
	Subtest 4	9262	1852.4	18.20	2	18.20	18.50	2	18.50
		9400	1880.0	18.20			18.50		
		9538	1907.6	18.20			18.50		
	Subtest 5	9262	1852.4	20.20	0	20.20	20.00	0	20.50
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.00		
DC-HSDPA	Subtest 1	9262	1852.4	19.90	0	20.20	20.00	0	20.50
		9400	1880.0	20.00			20.00		
		9538	1907.6	20.00			20.00		
	Subtest 2	9262	1852.4	19.90	0	20.20	20.00	0	20.50
		9400	1880.0	20.00			20.00		
		9538	1907.6	19.90			20.00		
	Subtest 3	9262	1852.4	19.70	0.5	19.70	20.00	0.5	20.00
		9400	1880.0	19.70			20.00		
		9538	1907.6	19.70			19.90		
	Subtest 4	9262	1852.4	19.70	0.5	19.70	20.00	0.5	20.00
		9400	1880.0	19.70			19.90		
		9538	1907.6	19.70			19.90		
HSPA+	Subtest 1	9262	1852.4	17.70	2.5	17.70	17.80	2.5	18.00
		9400	1880.0	17.60			17.80		
		9538	1907.6	17.60			17.90		

W-CDMA Band 4 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	24.50	N/A	25.50	17.60	N/A	18.00
		1413	1732.6	24.50			17.70		
		1513	1752.6	24.50			17.60		
HSDPA	Subtest 1	1312	1712.4	24.50	0	25.50	17.50	0	18.00
		1413	1732.6	24.50			17.50		
		1513	1752.6	24.50			17.60		
	Subtest 2	1312	1712.4	24.50	0	25.50	17.50	0	18.00
		1413	1732.6	24.50			17.50		
		1513	1752.6	24.50			17.60		
	Subtest 3	1312	1712.4	24.00	0.5	25.00	17.00	0.5	17.50
		1413	1732.6	24.00			17.00		
		1513	1752.6	24.00			17.10		
	Subtest 4	1312	1712.4	24.00	0.5	25.00	17.10	0.5	17.50
		1413	1732.6	24.00			17.10		
		1513	1752.6	24.00			17.00		
HSUPA	Subtest 1	1312	1712.4	24.50	0	25.50	17.50	0	18.00
		1413	1732.6	24.50			17.50		
		1513	1752.6	24.50			17.50		
	Subtest 2	1312	1712.4	22.80	2	23.50	15.60	2	16.00
		1413	1732.6	22.80			15.70		
		1513	1752.6	22.90			15.60		
	Subtest 3	1312	1712.4	23.80	1	24.50	16.60	1	17.00
		1413	1732.6	23.80			16.50		
		1513	1752.6	23.80			16.50		
	Subtest 4	1312	1712.4	22.50	2	23.50	15.60	2	16.00
		1413	1732.6	22.50			15.70		
		1513	1752.6	22.50			15.70		
	Subtest 5	1312	1712.4	24.50	0	25.50	17.60	0	18.00
		1413	1732.6	24.50			17.60		
		1513	1752.6	24.50			17.50		
DC-HSDPA	Subtest 1	1312	1712.4	24.50	0	25.50	17.60	0	18.00
		1413	1732.6	24.50			17.50		
		1513	1752.6	24.50			17.60		
	Subtest 2	1312	1712.4	24.50	0	25.50	17.60	0	18.00
		1413	1732.6	24.50			17.50		
		1513	1752.6	24.50			17.60		
	Subtest 3	1312	1712.4	24.00	0.5	25.00	17.10	0.5	17.50
		1413	1732.6	24.00			17.00		
		1513	1752.6	24.00			17.10		
	Subtest 4	1312	1712.4	24.00	0.5	25.00	17.00	0.5	17.50
		1413	1732.6	24.00			17.10		
		1513	1752.6	24.00			17.00		
HSPA+	Subtest 1	1312	1712.4	22.00	2.5	23.00	15.00	2.5	15.50
		1413	1732.6	22.10			15.10		
		1513	1752.6	22.20			15.10		

W-CDMA Band 4 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	20.20	N/A	20.20	19.00	N/A	19.00
		1413	1732.6	20.20			19.00		
		1513	1752.6	20.20			19.00		
HSDPA	Subtest 1	1312	1712.4	20.10	0	20.20	18.80	0	19.00
		1413	1732.6	20.00			18.80		
		1513	1752.6	20.10			18.80		
	Subtest 2	1312	1712.4	20.00	0	20.20	18.90	0	19.00
		1413	1732.6	20.00			18.80		
		1513	1752.6	19.90			18.80		
	Subtest 3	1312	1712.4	19.50	0.5	19.70	18.20	0.5	18.50
		1413	1732.6	19.50			18.40		
		1513	1752.6	19.50			18.30		
	Subtest 4	1312	1712.4	19.60	0.5	19.70	18.30	0.5	18.50
		1413	1732.6	19.50			18.30		
		1513	1752.6	19.50			18.40		
HSUPA	Subtest 1	1312	1712.4	20.00	0	20.20	18.80	0	19.00
		1413	1732.6	20.00			18.90		
		1513	1752.6	20.00			18.80		
	Subtest 2	1312	1712.4	17.90	2	18.20	16.80	2	17.00
		1413	1732.6	18.00			16.80		
		1513	1752.6	18.00			16.80		
	Subtest 3	1312	1712.4	19.00	1	19.20	17.90	1	18.00
		1413	1732.6	19.00			17.70		
		1513	1752.6	19.00			17.80		
	Subtest 4	1312	1712.4	18.00	2	18.20	16.90	2	17.00
		1413	1732.6	18.00			16.90		
		1513	1752.6	18.00			16.90		
	Subtest 5	1312	1712.4	20.10	0	20.20	18.90	0	19.00
		1413	1732.6	20.00			18.90		
		1513	1752.6	20.00			18.80		
DC-HSDPA	Subtest 1	1312	1712.4	19.90	0	20.20	18.60	0	19.00
		1413	1732.6	19.90			18.60		
		1513	1752.6	20.00			18.60		
	Subtest 2	1312	1712.4	20.00	0	20.20	18.60	0	19.00
		1413	1732.6	20.00			18.60		
		1513	1752.6	19.90			18.60		
	Subtest 3	1312	1712.4	19.50	0.5	19.70	18.20	0.5	18.50
		1413	1732.6	19.40			18.10		
		1513	1752.6	19.40			18.20		
	Subtest 4	1312	1712.4	19.40	0.5	19.70	18.20	0.5	18.50
		1413	1732.6	19.40			18.10		
		1513	1752.6	19.40			18.20		
HSPA+	Subtest 1	1312	1712.4	17.50	2.5	17.70	16.00	2.5	16.50
		1413	1732.6	17.40			16.10		
		1513	1752.6	17.50			16.20		

W-CDMA Band 4 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	24.00	N/A	25.00	21.80	N/A	22.00
		1413	1732.6	24.00			21.90		
		1513	1752.6	24.00			21.80		
HSDPA	Subtest 1	1312	1712.4	24.00	0	25.00	21.87	0	22.00
		1413	1732.6	24.00			21.89		
		1513	1752.6	24.00			21.88		
	Subtest 2	1312	1712.4	24.00	0	25.00	21.85	0	22.00
		1413	1732.6	24.00			21.88		
		1513	1752.6	24.00			21.86		
	Subtest 3	1312	1712.4	23.50	0.5	24.50	21.50	0.5	21.50
		1413	1732.6	23.72			21.50		
		1513	1752.6	23.74			21.50		
	Subtest 4	1312	1712.4	23.60	0.5	24.50	21.50	0.5	21.50
		1413	1732.6	23.58			21.50		
		1513	1752.6	23.58			21.50		
HSUPA	Subtest 1	1312	1712.4	24.00	0	25.00	21.80	0	22.00
		1413	1732.6	24.00			21.89		
		1513	1752.6	24.00			21.88		
	Subtest 2	1312	1712.4	22.00	2	23.00	20.00	2	20.00
		1413	1732.6	22.22			20.00		
		1513	1752.6	22.21			20.00		
	Subtest 3	1312	1712.4	23.00	1	24.00	21.00	1	21.00
		1413	1732.6	23.29			21.00		
		1513	1752.6	23.28			21.00		
	Subtest 4	1312	1712.4	22.00	2	23.00	20.00	2	20.00
		1413	1732.6	22.53			20.00		
		1513	1752.6	22.52			20.00		
	Subtest 5	1312	1712.4	24.00	0	25.00	21.83	0	22.00
		1413	1732.6	24.00			21.84		
		1513	1752.6	24.00			21.90		
DC-HSDPA	Subtest 1	1312	1712.4	24.00	0	25.00	21.70	0	22.00
		1413	1732.6	24.00			21.80		
		1513	1752.6	24.00			21.80		
	Subtest 2	1312	1712.4	24.00	0	25.00	21.70	0	22.00
		1413	1732.6	24.00			21.80		
		1513	1752.6	24.00			21.70		
	Subtest 3	1312	1712.4	23.50	0.5	24.50	21.50	0.5	21.50
		1413	1732.6	23.60			21.50		
		1513	1752.6	23.60			21.50		
	Subtest 4	1312	1712.4	23.50	0.5	24.50	21.50	0.5	21.50
		1413	1732.6	23.60			21.50		
		1513	1752.6	23.50			21.50		
HSPA+	Subtest 1	1312	1712.4	22.50	2.5	22.50	19.50	2.5	19.50
		1413	1732.6	22.50			19.50		
		1513	1752.6	22.50			19.50		

W-CDMA Band 4 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	22.40	N/A	22.50	22.10	N/A	22.50
		1413	1732.6	22.40			22.10		
		1513	1752.6	22.40			22.00		
HSDPA	Subtest 1	1312	1712.4	22.25	0	22.50	22.00	0	22.50
		1413	1732.6	22.16			22.00		
		1513	1752.6	22.01			22.01		
	Subtest 2	1312	1712.4	21.50	0	22.50	22.00	0	22.50
		1413	1732.6	21.76			22.00		
		1513	1752.6	21.76			22.01		
	Subtest 3	1312	1712.4	21.00	0.5	22.00	21.00	0.5	22.00
		1413	1732.6	21.52			21.52		
		1513	1752.6	21.48			21.48		
	Subtest 4	1312	1712.4	21.00	0.5	22.00	21.00	0.5	22.00
		1413	1732.6	21.28			21.28		
		1513	1752.6	21.25			21.25		
HSUPA	Subtest 1	1312	1712.4	21.50	0	22.50	21.50	0	22.50
		1413	1732.6	21.85			21.85		
		1513	1752.6	21.82			21.82		
	Subtest 2	1312	1712.4	19.50	2	20.50	19.50	2	20.50
		1413	1732.6	19.84			19.84		
		1513	1752.6	19.84			19.84		
	Subtest 3	1312	1712.4	20.50	1	21.50	20.50	1	21.50
		1413	1732.6	20.61			20.61		
		1513	1752.6	20.84			20.84		
	Subtest 4	1312	1712.4	20.00	2	20.50	20.00	2	20.50
		1413	1732.6	20.13			20.13		
		1513	1752.6	20.08			20.08		
	Subtest 5	1312	1712.4	21.50	0	22.50	21.50	0	22.50
		1413	1732.6	21.50			21.50		
		1513	1752.6	21.50			21.50		
DC-HSDPA	Subtest 1	1312	1712.4	22.30	0	22.50	22.00	0	22.50
		1413	1732.6	22.40			22.00		
		1513	1752.6	22.30			22.00		
	Subtest 2	1312	1712.4	22.40	0	22.50	22.00	0	22.50
		1413	1732.6	22.40			22.00		
		1513	1752.6	22.30			22.00		
	Subtest 3	1312	1712.4	22.00	0.5	22.00	22.00	0.5	22.00
		1413	1732.6	21.90			21.90		
		1513	1752.6	22.00			22.00		
	Subtest 4	1312	1712.4	21.90	0.5	22.00	21.90	0.5	22.00
		1413	1732.6	21.90			21.90		
		1513	1752.6	22.00			22.00		
HSPA+	Subtest 1	1312	1712.4	20.00	2.5	20.00	20.00	2.5	20.00
		1413	1732.6	20.00			20.00		
		1513	1752.6	20.00			20.00		

W-CDMA Band 5 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	24.50	N/A	25.50	24.50	N/A	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
HSDPA	Subtest 1	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 2	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 3	4132	826.4	24.00	0.5	25.00	24.00	0.5	25.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
	Subtest 4	4132	826.4	24.00	0.5	25.00	24.00	0.5	25.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
HSUPA	Subtest 1	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 2	4132	826.4	22.50	2	23.50	22.50	2	23.50
		4183	836.6	22.50			22.50		
		4233	846.6	22.50			22.50		
	Subtest 3	4132	826.4	23.60	1	24.50	23.60	1	24.50
		4183	836.6	23.60			23.60		
		4233	846.6	23.60			23.60		
	Subtest 4	4132	826.4	22.80	2	23.50	22.80	2	23.50
		4183	836.6	22.80			22.80		
		4233	846.6	22.80			22.80		
	Subtest 5	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
DC-HSDPA	Subtest 1	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 2	4132	826.4	24.50	0	25.50	24.50	0	25.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 3	4132	826.4	24.00	0.5	25.00	24.00	0.5	25.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
	Subtest 4	4132	826.4	24.00	0.5	25.00	24.00	0.5	25.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
HSPA+	Subtest 1	4132	826.4	22.00	2.5	23.00	22.00	2.5	23.00
		4183	836.6	22.10			22.10		
		4233	846.6	22.10			22.10		

W-CDMA Band 5 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	23.70	N/A	24.50	23.70	N/A	24.50
		4183	836.6	23.70			23.70		
		4233	846.6	23.70			23.70		
HSDPA	Subtest 1	4132	826.4	23.60	0	24.50	23.60	0	24.50
		4183	836.6	23.60			23.60		
		4233	846.6	23.60			23.60		
	Subtest 2	4132	826.4	23.60	0	24.50	23.60	0	24.50
		4183	836.6	23.60			23.60		
		4233	846.6	23.60			23.60		
	Subtest 3	4132	826.4	23.00	0.5	24.00	23.00	0.5	24.00
		4183	836.6	23.00			23.00		
		4233	846.6	23.00			23.00		
	Subtest 4	4132	826.4	23.00	0.5	24.00	23.00	0.5	24.00
		4183	836.6	23.00			23.00		
		4233	846.6	23.00			23.00		
HSUPA	Subtest 1	4132	826.4	23.70	0	24.50	23.70	0	24.50
		4183	836.6	23.70			23.70		
		4233	846.6	23.70			23.70		
	Subtest 2	4132	826.4	22.50	2	22.50	22.50	2	22.50
		4183	836.6	22.50			22.50		
		4233	846.6	22.50			22.50		
	Subtest 3	4132	826.4	23.50	1	23.50	23.50	1	23.50
		4183	836.6	23.50			23.50		
		4233	846.6	23.50			23.50		
	Subtest 4	4132	826.4	21.50	2	22.50	21.50	2	22.50
		4183	836.6	21.50			21.50		
		4233	846.6	21.50			21.50		
	Subtest 5	4132	826.4	23.70	0	24.50	23.70	0	24.50
		4183	836.6	23.70			23.70		
		4233	846.6	23.70			23.70		
DC-HSDPA	Subtest 1	4132	826.4	23.60	0	24.50	23.60	0	24.50
		4183	836.6	23.60			23.60		
		4233	846.6	23.60			23.60		
	Subtest 2	4132	826.4	23.60	0	24.50	23.60	0	24.50
		4183	836.6	23.60			23.60		
		4233	846.6	23.60			23.60		
	Subtest 3	4132	826.4	22.00	0.5	24.00	22.00	0.5	24.00
		4183	836.6	22.00			22.00		
		4233	846.6	22.00			22.00		
	Subtest 4	4132	826.4	22.00	0.5	24.00	22.00	0.5	24.00
		4183	836.6	22.00			22.00		
		4233	846.6	22.00			22.00		
HSPA+	Subtest 1	4132	826.4	21.50	2.5	22.00	21.50	2.5	22.00
		4183	836.6	21.50			21.50		
		4233	846.6	21.50			21.50		

9.3. CDMA

1x Advanced Setup Procedures used to establish the test signals

Call box setup procedure

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

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)

	RF Channel	RF Channel Offset
Carrier [0]	31	0
Carrier [1]	1013	982

  - Under Carrier Configuration: RF Pilot

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

  For Three Carriers: Low Channel (1013)

	RF Channel	RF Channel Offset
Carrier [0]	72	0
Carrier [1]	31	-41
Carrier [2]	1013	941

  - Under Carrier Configuration: RF Pilot

	Carrier Sector	Active on AN	Assigned to AT
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, Rev. B and 1x-Advanced. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is ≤ ¼ 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	25.5	25.5	24.5	24.5				
	1xAdvanced	25.5	25.5	24.5	24.5				
	1xEVDO Rel. 0	25.5	25.5	24.5	24.5				
	1xEVDO Rev. A	25.5	25.5	24.5	24.5				
CDMA BC1	1xRTT	25.5	21.0	18.5	17.7				
	1xAdvanced	25.5	21.0	18.5	17.7				
	1xEVDO Rel. 0	25.5	21.0	18.5	17.7				
	1xEVDO Rev. A	25.5	21.0	18.5	17.7				
CDMA BC10	1xRTT	25.5	25.5	24.5	24.5				
	1xAdvanced	25.5	25.5	24.5	24.5				
	1xEVDO Rel. 0	25.5	25.5	24.5	24.5				
	1xEVDO Rev. A	25.5	25.5	24.5	24.5				

CDMA BC1 is not supported for 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	24.50	25.50	24.50	25.50
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
	RC3, SO55 (Loopback)	1013	824.70	24.50		24.50	
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
	RC3, SO32 (+F-SCH)	1013	824.70	24.50		24.50	
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	25.50	25.50	25.50	25.50
		384	836.52	25.50		25.50	
		777	848.31	25.50		25.50	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.50	25.50	25.50	25.50
		384	836.52	25.50		25.50	
		777	848.31	25.50		25.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.50	25.50	25.50	25.50
		384	836.52	25.50		25.50	
		777	848.31	25.50		25.50	

CDMA BC0 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	PowerMode A (dBm)		PowerMode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	1013	824.70	23.60	24.50	23.60	24.50
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	
	RC3, SO55 (Loopback)	1013	824.70	23.60		23.60	
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	
	RC3, SO32 (+F-SCH)	1013	824.70	23.60		23.60	
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	23.60	24.50	23.60	24.50
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	23.60	24.50	23.60	24.50
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	23.60	24.50	23.60	24.50
		384	836.52	23.60		23.60	
		777	848.31	23.60		23.60	

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	24.50	25.50	21.00	21.00
		600	1880.00	24.50		21.00	
		1175	1908.75	24.50		20.90	
	RC3, SO55 (Loopback)	25	1851.25	24.50		21.00	
		600	1880.00	24.50		21.00	
		1175	1908.75	24.50		20.90	
	RC3, SO32 (+F-SCH)	25	1851.25	24.50		21.00	
		600	1880.00	24.50		21.00	
		1175	1908.75	24.50		20.90	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	24.50	25.50	21.00	21.00
		600	1880	24.50		21.00	
		1175	1908.75	24.50		20.90	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	24.50	25.50	21.00	21.00
		600	1880.00	24.50		21.00	
		1175	1908.75	24.50		20.90	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	24.50	25.50	21.00	21.00
		600	1880	24.50		21.00	
		1175	1908.75	24.50		20.90	

CDMA BC1 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	PowerMode A (dBm)		PowerMode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	18.50	18.50	17.50	17.70
		600	1880.00	18.50		17.70	
		1175	1908.75	18.50		17.70	
	RC3, SO55 (Loopback)	25	1851.25	18.50		17.50	
		600	1880.00	18.50		17.70	
		1175	1908.75	18.50		17.70	
	RC3, SO32 (+F-SCH)	25	1851.25	18.50		17.50	
		600	1880.00	18.50		17.70	
		1175	1908.75	18.50		17.70	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	18.50	18.50	17.50	17.70
		600	1880	18.50		17.70	
		1175	1908.75	18.50		17.70	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	18.50	18.50	17.50	17.70
		600	1880.00	18.50		17.70	
		1175	1908.75	18.50		17.70	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	18.50	18.50	17.50	17.70
		600	1880	18.50		17.70	
		1175	1908.75	18.50		17.70	

CDMA BC10 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	450	817.25	24.50	25.50	24.50	25.50
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
	RC3, SO55 (Loopback)	450	817.25	24.50		24.50	
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
	RC3, SO32 (+F-SCH)	450	817.25	24.50		24.50	
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	450	817.25	24.50	25.50	24.50	25.50
		560	820	24.50		24.50	
		670	822.75	24.50		24.50	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	450	817.25	24.50	25.50	24.50	25.50
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	450	817.25	24.50	25.50	24.50	25.50
		560	820	24.50		24.50	
		670	822.75	24.50		24.50	

CDMA BC10 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	PowerMode A (dBm)		PowerMode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	450	817.25	23.70	24.50	23.70	24.50
		560	820.00	23.70		23.70	
		670	822.75	23.50		23.50	
	RC3, SO55 (Loopback)	450	817.25	23.70		23.70	
		560	820.00	23.70		23.70	
		670	822.75	23.50		23.50	
	RC3, SO32 (+F-SCH)	450	817.25	23.70		23.70	
		560	820.00	23.70		23.70	
		670	822.75	23.50		23.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	450	817.25	23.70	24.50	23.70	24.50
		560	820	23.70		23.70	
		670	822.75	23.50		23.50	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	450	817.25	23.70	24.50	23.70	24.50
		560	820.00	23.70		23.70	
		670	822.75	23.50		23.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	450	817.25	23.70	24.50	23.70	24.50
		560	820	23.70		23.70	
		670	822.75	23.50		23.50	

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
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

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 ≤ 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 5 (824-849 MHz) is covered by LTE Band 26 (814-849 MHz)
   - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

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

SAR measurement is not required for the 16QAM and 64QAM. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is ≤ ¼ dB higher than the primary mode.

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	25.50	21.00	18.50	17.70	25.00	19.70	20.20	20.50
LTE Band 4	QPSK	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
LTE Band 5	QPSK	25.50	25.50	24.50	24.50				
LTE Band 7	QPSK	25.50	21.50	19.70	21.50	25.00	21.00	18.00	18.70
LTE Band 12	QPSK	25.50	25.50	24.50	24.50				
LTE Band 13	QPSK	25.50	25.50	24.50	24.50				
LTE Band 14	QPSK	25.50	25.50	24.50	24.50				
LTE Band 17	QPSK	25.50	25.50	24.50	24.50				
LTE Band 25	QPSK	25.50	21.00	18.50	17.70	25.00	19.70	20.20	20.50
LTE Band 26	QPSK	25.50	25.50	24.50	24.50				
LTE Band 30	QPSK	23.50	21.70	20.50	20.50	23.50	20.00	18.20	19.50
LTE Band 41 (PC 3)	QPSK	25.50	24.00	21.50	22.50	25.50	24.00	19.50	21.70
LTE Band 41 (PC 2)	QPSK	27.00	24.00	21.50	22.50	26.50	24.00	19.50	21.70
LTE Band 66	QPSK	25.50	18.00	20.20	19.00	25.00	22.00	22.50	22.50
LTE Band 71	QPSK	25.50	25.50	24.50	24.50				

Note(s):

* From May 2017 TCB Workshop, Rel. 14 has introduced HPUE Power Class 2 for Band 41 allows 26 ±2 dBm and does not support uplink-downlink configurations 0 and 6 or inter-band CA. The highest time averaged power for UL-DL configurations is 1 the duty cycle is 43.3%. Please refer to section 6.4. LTE (TDD) Considerations.

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	24.50	24.50	24.50	0	25.5	21.40	21.26	21.26	0	21.5
		1	49	24.50	24.50	24.50	0	25.5	21.42	21.26	21.26	0	21.5
		1	99	24.50	24.50	24.50	0	25.5	21.40	21.26	21.26	0	21.5
		50	0	23.50	23.50	23.50	1	24.5	21.42	21.21	21.20	0	21.5
		50	24	23.50	23.50	23.50	1	24.5	21.42	21.26	21.28	0	21.5
		50	50	23.50	23.50	23.50	1	24.5	21.42	21.20	21.28	0	21.5
		100	0	23.50	23.50	23.50	1	24.5	21.44	21.31	21.35	0	21.5
	16QAM	1	0	23.80	23.90	23.90	1	24.5	21.50	21.50	21.50	0	21.5
		1	49	23.80	23.90	23.80	1	24.5	21.50	21.50	21.50	0	21.5
		1	99	23.90	23.80	23.90	1	24.5	21.50	21.50	21.50	0	21.5
		50	0	22.80	22.90	22.90	2	23.5	21.46	21.23	21.25	0	21.5
		50	24	22.80	22.80	22.90	2	23.5	21.44	21.29	21.32	0	21.5
		50	50	22.80	22.80	22.90	2	23.5	21.43	21.23	21.34	0	21.5
		100	0	22.90	22.80	22.90	2	23.5	21.47	21.33	21.37	0	21.5
	64QAM	1	0	23.00	22.89	22.63	2	23.5	21.21	21.02	21.06	0	21.5
		1	49	23.00	22.83	22.58	2	23.5	21.07	21.01	21.13	0	21.5
		1	99	22.94	22.76	22.55	2	23.5	21.05	21.02	21.24	0	21.5
		50	0	21.77	21.59	21.53	3	22.5	20.78	20.65	20.73	0	21.5
		50	24	21.72	21.58	21.55	3	22.5	20.71	20.65	20.80	0	21.5
		50	50	21.71	21.52	21.61	3	22.5	20.66	20.61	20.86	0	21.5
		100	0	21.75	21.62	21.62	3	22.5	20.74	20.68	20.88	0	21.5

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	25.00	24.84	24.86	0	25.5	21.50	21.21	21.27	0	21.5
		1	37	24.87	24.83	24.89	0	25.5	21.41	21.25	21.35	0	21.5
		1	74	24.86	24.77	24.82	0	25.5	21.41	21.16	21.34	0	21.5
		36	0	24.09	24.04	24.07	1	24.5	21.39	21.16	21.30	0	21.5
		36	20	24.21	24.08	24.10	1	24.5	21.40	21.24	21.31	0	21.5
		36	39	24.20	24.07	24.11	1	24.5	21.39	21.24	21.31	0	21.5
		75	0	24.09	24.06	24.10	1	24.5	21.41	21.27	21.30	0	21.5
	16QAM	1	0	24.30	24.42	24.30	1	24.5	21.50	21.50	21.50	0	21.5
		1	37	24.43	24.42	24.33	1	24.5	21.50	21.50	21.50	0	21.5
		1	74	24.30	24.36	24.34	1	24.5	21.50	21.50	21.50	0	21.5
		36	0	23.49	23.30	23.37	2	23.5	21.42	21.22	21.29	0	21.5
		36	20	23.48	23.37	23.35	2	23.5	21.43	21.30	21.32	0	21.5
		36	39	23.45	23.34	23.36	2	23.5	21.43	21.29	21.33	0	21.5
		75	0	23.47	23.37	23.37	2	23.5	21.42	21.31	21.33	0	21.5
	64QAM	1	0	22.96	22.88	22.87	2	23.5	21.01	20.89	20.93	0	21.5
		1	37	22.83	22.90	22.89	2	23.5	20.99	20.90	21.07	0	21.5
		1	74	22.81	22.83	22.80	2	23.5	20.89	20.86	21.08	0	21.5
		36	0	21.77	21.63	21.60	3	22.5	20.78	20.67	20.85	0	21.5
		36	20	21.78	21.69	21.67	3	22.5	20.80	20.69	20.90	0	21.5
		36	39	21.74	21.67	21.66	3	22.5	20.75	20.66	20.94	0	21.5
		75	0	21.75	21.67	21.66	3	22.5	20.81	20.64	20.84	0	21.5

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	25.18	25.00	25.12	0	25.5	21.50	21.24	21.23	0	21.5
		1	25	25.08	25.04	25.08	0	25.5	21.45	21.28	21.25	0	21.5
		1	49	25.10	25.00	25.05	0	25.5	21.48	21.23	21.22	0	21.5
		25	0	24.24	24.20	24.18	1	24.5	21.42	21.27	21.26	0	21.5
		25	12	24.22	24.19	24.19	1	24.5	21.42	21.26	21.24	0	21.5
		25	25	24.22	24.19	24.22	1	24.5	21.43	21.28	21.26	0	21.5
		50	0	24.25	24.20	24.20	1	24.5	21.40	21.28	21.26	0	21.5
	16QAM	1	0	24.50	24.50	24.45	1	24.5	21.50	21.50	21.50	0	21.5
		1	25	24.50	24.50	24.44	1	24.5	21.50	21.50	21.50	0	21.5
		1	49	24.50	24.50	24.48	1	24.5	21.50	21.50	21.50	0	21.5
		25	0	23.50	23.45	23.38	2	23.5	21.40	21.32	21.32	0	21.5
		25	12	23.50	23.41	23.38	2	23.5	21.39	21.32	21.30	0	21.5
		25	25	23.50	23.42	23.40	2	23.5	21.38	21.32	21.32	0	21.5
		50	0	23.50	23.41	23.39	2	23.5	21.37	21.32	21.30	0	21.5
	64QAM	1	0	22.96	22.79	22.78	2	23.5	21.08	20.92	20.99	0	21.5
		1	25	22.84	22.79	22.74	2	23.5	21.02	20.94	21.03	0	21.5
		1	49	22.90	22.77	22.73	2	23.5	21.06	20.89	21.13	0	21.5
		25	0	21.74	21.65	21.64	3	22.5	20.76	20.66	20.83	0	21.5
		25	12	21.71	21.62	21.64	3	22.5	20.75	20.66	20.86	0	21.5
		25	25	21.70	21.62	21.68	3	22.5	20.79	20.70	20.91	0	21.5
		50	0	21.72	21.62	21.65	3	22.5	20.78	20.68	20.86	0	21.5

LTE Band 7 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	25.25	25.27	25.28	0	25.5	21.39	21.30	21.15	0	21.5
		1	12	25.15	25.17	25.27	0	25.5	21.31	21.27	21.24	0	21.5
		1	24	25.13	25.21	25.24	0	25.5	21.33	21.30	21.28	0	21.5
		12	0	24.27	24.20	24.28	1	24.5	21.25	21.14	21.15	0	21.5
		12	7	24.26	24.18	24.29	1	24.5	21.20	21.11	21.14	0	21.5
		12	13	24.25	24.19	24.22	1	24.5	21.21	21.12	21.14	0	21.5
		25	0	24.22	24.21	24.22	1	24.5	21.26	21.15	21.16	0	21.5
	16QAM	1	0	24.50	24.50	24.50	1	24.5	21.50	21.50	21.50	0	21.5
		1	12	24.50	24.50	24.50	1	24.5	21.50	21.50	21.50	0	21.5
		1	24	24.50	24.50	24.50	1	24.5	21.50	21.50	21.50	0	21.5
		12	0	23.48	23.31	23.28	2	23.5	21.32	21.10	21.15	0	21.5
		12	7	23.41	23.35	23.30	2	23.5	21.24	21.10	21.14	0	21.5
		12	13	23.40	23.35	23.24	2	23.5	21.25	21.11	21.16	0	21.5
		25	0	23.36	23.32	23.35	2	23.5	21.22	21.08	21.12	0	21.5
	64QAM	1	0	23.00	22.78	22.89	2	23.5	21.08	20.93	21.18	0	21.5
		1	12	22.98	22.72	22.74	2	23.5	21.04	20.94	21.20	0	21.5
		1	24	22.99	22.79	22.84	2	23.5	21.09	21.00	21.16	0	21.5
		12	0	21.60	21.38	21.36	3	22.5	20.53	20.45	20.67	0	21.5
		12	7	21.52	21.35	21.34	3	22.5	20.53	20.42	20.68	0	21.5
		12	13	21.53	21.36	21.32	3	22.5	20.55	20.44	20.59	0	21.5
		25	0	21.57	21.42	21.40	3	22.5	20.60	20.46	20.71	0	21.5

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	19.70	19.70	19.70	0	19.7	20.71	20.57	20.56	0	21.5
		1	49	19.70	19.70	19.70	0	19.7	21.30	21.30	21.30	0	21.5
		1	99	19.70	19.70	19.70	0	19.7	20.73	20.58	20.74	0	21.5
		50	0	19.70	19.70	19.70	0	19.7	20.55	20.53	20.56	0	21.5
		50	24	19.70	19.70	19.70	0	19.7	21.20	21.20	21.20	0	21.5
		50	50	19.70	19.70	19.70	0	19.7	20.55	20.50	20.65	0	21.5
		100	0	19.70	19.70	19.70	0	19.7	21.20	21.20	21.20	0	21.5
	16QAM	1	0	19.70	19.70	19.70	0	19.7	20.94	21.03	20.90	0	21.5
		1	49	19.70	19.70	19.70	0	19.7	20.91	21.06	21.04	0	21.5
		1	99	19.70	19.70	19.70	0	19.7	21.00	21.02	21.02	0	21.5
		50	0	19.70	19.70	19.70	0	19.7	20.50	20.50	20.50	0.3	21.25
		50	24	19.70	19.70	19.70	0	19.7	20.30	20.30	20.28	0.3	21.3
		50	50	19.70	19.70	19.70	0	19.7	20.30	20.30	20.26	0.3	21.3
		100	0	19.70	19.70	19.70	0	19.7	20.30	20.30	20.28	0.3	21.3
	64QAM	1	0	19.70	19.70	19.70	0	19.7	21.21	20.80	21.00	0.3	21.3
		1	49	19.70	19.70	19.70	0	19.7	21.10	20.74	20.98	0.3	21.3
		1	99	19.70	19.70	19.70	0	19.7	21.06	20.73	20.95	0.3	21.3
		50	0	19.70	19.65	19.70	0	19.7	19.94	19.77	19.74	1.3	20.3
		50	24	19.70	19.68	19.70	0	19.7	19.93	19.72	19.80	1.3	20.3
		50	50	19.70	19.60	19.70	0	19.7	19.87	19.71	19.78	1.3	20.3
		100	0	19.70	19.70	19.70	0	19.7	19.97	19.76	19.84	1.3	20.3

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	19.70	19.70	19.70	0	19.7	20.78	20.55	20.70	0	21.5
		1	37	19.70	19.70	19.70	0	19.7	20.76	20.65	20.78	0	21.5
		1	74	19.70	19.70	19.70	0	19.7	20.69	20.57	20.76	0	21.5
		36	0	19.70	19.70	19.70	0	19.7	20.60	20.51	20.74	0	21.5
		36	20	19.70	19.70	19.70	0	19.7	20.68	20.60	20.79	0	21.5
		36	39	19.70	19.70	19.70	0	19.7	20.64	20.59	20.69	0	21.5
		75	0	19.70	19.70	19.70	0	19.7	20.65	20.60	20.74	0	21.5
	16QAM	1	0	19.70	19.70	19.70	0	19.7	21.05	20.93	20.93	0	21.5
		1	37	19.70	19.70	19.70	0	19.7	21.05	20.96	21.01	0	21.5
		1	74	19.70	19.70	19.70	0	19.7	20.99	20.87	21.01	0	21.5
		36	0	19.70	19.70	19.70	0	19.7	20.25	20.25	20.35	0.3	21.25
		36	20	19.70	19.70	19.70	0	19.7	20.32	20.27	20.38	0.3	21.3
		36	39	19.70	19.70	19.70	0	19.7	20.29	20.26	20.32	0.3	21.3
		75	0	19.70	19.70	19.70	0	19.7	20.26	20.25	20.32	0.3	21.3
	64QAM	1	0	19.70	19.70	19.70	0	19.7	21.04	20.94	21.02	0.3	21.3
		1	37	19.70	19.70	19.70	0	19.7	20.98	20.89	20.98	0.3	21.3
		1	74	19.70	19.70	19.70	0	19.7	20.96	20.81	20.92	0.3	21.3
		36	0	19.70	19.70	19.70	0	19.7	19.93	19.79	19.80	1.3	20.3
		36	20	19.70	19.70	19.70	0	19.7	19.95	19.77	19.80	1.3	20.3
		36	39	19.70	19.70	19.70	0	19.7	19.94	19.73	19.79	1.3	20.3
		75	0	19.70	19.70	19.70	0	19.7	19.94	19.72	19.75	1.3	20.3

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	19.70	19.70	19.70	0	19.7	20.81	20.71	20.85	0	21.5
		1	25	19.70	19.70	19.70	0	19.7	20.70	20.74	20.78	0	21.5
		1	49	19.70	19.70	19.70	0	19.7	20.83	20.73	20.83	0	21.5
		25	0	19.70	19.70	19.70	0	19.7	20.70	20.69	20.78	0	21.5
		25	12	19.70	19.70	19.70	0	19.7	20.69	20.69	20.76	0	21.5
		25	25	19.70	19.70	19.70	0	19.7	20.78	20.70	20.72	0	21.5
		50	0	19.70	19.70	19.70	0	19.7	20.65	20.64	20.73	0	21.5
	16QAM	1	0	19.70	19.70	19.70	0	19.7	21.12	20.93	21.14	0	21.5
		1	25	19.70	19.70	19.70	0	19.7	21.03	20.98	21.07	0	21.5
		1	49	19.70	19.70	19.70	0	19.7	21.19	20.97	21.13	0	21.5
		25	0	19.70	19.70	19.70	0	19.7	20.28	20.30	20.38	0.3	21.25
		25	12	19.70	19.70	19.70	0	19.7	20.27	20.29	20.33	0.3	21.3
		25	25	19.70	19.70	19.70	0	19.7	20.37	20.31	20.36	0.3	21.3
		50	0	19.70	19.70	19.70	0	19.7	20.27	20.29	20.35	0.3	21.3
	64QAM	1	0	19.70	19.70	19.70	0	19.7	21.15	20.95	21.02	0.3	21.3
		1	25	19.70	19.70	19.70	0	19.7	21.10	20.85	21.01	0.3	21.3
		1	49	19.70	19.70	19.70	0	19.7	21.10	20.87	20.93	0.3	21.3
		25	0	19.70	19.70	19.70	0	19.7	19.98	19.88	19.86	1.3	20.3
		25	12	19.70	19.70	19.70	0	19.7	19.96	19.85	19.82	1.3	20.3
		25	25	19.70	19.70	19.70	0	19.7	19.98	19.85	19.84	1.3	20.3
		50	0	19.70	19.70	19.70	0	19.7	19.97	19.84	19.85	1.3	20.3

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	19.70	19.70	19.70	0	19.7	20.86	20.79	20.75	0	21.5
		1	12	19.70	19.70	19.70	0	19.7	20.65	20.78	20.83	0	21.5
		1	24	19.70	19.70	19.70	0	19.7	20.70	20.83	20.84	0	21.5
		12	0	19.70	19.70	19.70	0	19.7	20.64	20.69	20.68	0	21.5
		12	7	19.70	19.70	19.70	0	19.7	20.58	20.68	20.68	0	21.5
		12	13	19.70	19.70	19.70	0	19.7	20.58	20.67	20.69	0	21.5
		25	0	19.70	19.70	19.70	0	19.7	20.60	20.68	20.71	0	21.5
	16QAM	1	0	19.70	19.70	19.70	0	19.7	21.11	21.22	21.26	0	21.5
		1	12	19.70	19.70	19.70	0	19.7	21.01	21.22	21.24	0	21.5
		1	24	19.70	19.70	19.70	0	19.7	21.03	21.26	21.29	0	21.5
		12	0	19.70	19.70	19.70	0	19.7	20.25	20.25	20.25	0.3	21.25
		12	7	19.70	19.70	19.70	0	19.7	20.25	20.25	20.28	0.3	21.3
		12	13	19.70	19.70	19.70	0	19.7	20.25	20.25	20.28	0.3	21.3
		25	0	19.70	19.70	19.70	0	19.7	20.25	20.25	20.25	0.3	21.3
	64QAM	1	0	19.70	19.70	19.70	0	19.7	21.16	21.11	21.25	0.3	21.3
		1	12	19.70	19.70	19.70	0	19.7	21.13	21.09	21.25	0.3	21.3
		1	24	19.70	19.70	19.70	0	19.7	21.13	21.10	21.25	0.3	21.3
		12	0	19.70	19.66	19.63	0	19.7	19.82	19.63	20.23	1.3	20.3
		12	7	19.70	19.65	19.62	0	19.7	19.80	19.61	20.20	1.3	20.3
		12	13	19.70	19.65	19.60	0	19.7	19.80	19.60	20.15	1.3	20.3
		25	0	19.70	19.69	19.68	0	19.7	19.79	19.65	20.12	1.3	20.3

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	24.03	24.00	24.00	0	25	21.00	21.00	21.00	0	21
		1	49	24.04	24.00	24.00	0	25	21.00	21.00	21.00	0	21
		1	99	24.02	24.00	24.00	0	25	21.00	20.96	21.00	0	21
		50	0	23.06	23.17	23.14	1	24	21.00	20.90	21.00	0	21
		50	24	23.17	23.20	23.25	1	24	21.00	21.00	21.00	0	21
		50	50	23.16	23.03	23.22	1	24	21.00	20.89	21.00	0	21
		100	0	23.20	23.13	23.26	1	24	20.83	20.95	20.91	0	21
	16QAM	1	0	23.58	23.67	23.40	1	24	21.00	21.00	21.00	0	21
		1	49	23.43	23.60	23.52	1	24	21.00	21.00	21.00	0	21
		1	99	23.60	23.53	23.49	1	24	21.00	21.00	21.00	0	21
		50	0	22.45	22.43	22.44	2	23	21.00	21.00	21.00	0	21
		50	24	22.48	22.35	22.47	2	23	21.00	21.00	21.00	0	21
		50	50	22.44	22.31	22.46	2	23	21.00	21.00	21.00	0	21
		100	0	22.49	22.39	22.53	2	23	21.00	21.00	21.00	0	21
	64QAM	1	0	23.00	22.99	22.81	2	23	21.00	21.00	21.00	0	21
		1	49	23.00	22.86	22.91	2	23	21.00	21.00	21.00	0	21
		1	99	23.00	22.98	22.75	2	23	21.00	21.00	21.00	0	21
		50	0	21.86	21.55	21.79	3	22	21.00	21.00	21.00	0	21
		50	24	21.87	21.49	21.80	3	22	21.00	21.00	21.00	0	21
		50	50	21.76	21.55	21.65	3	22	21.00	21.00	21.00	0	21
		100	0	21.89	21.52	21.86	3	22	21.00	21.00	21.00	0	21

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	24.04	24.00	24.02	0	25	21.00	21.00	21.00	0	21
		1	37	24.00	24.00	24.07	0	25	21.00	21.00	21.00	0	21
		1	74	24.00	24.00	24.00	0	25	21.00	21.00	21.00	0	21
		36	0	23.13	23.13	23.15	1	24	21.00	21.00	21.00	0	21
		36	20	23.15	23.18	23.20	1	24	21.00	21.00	21.00	0	21
		36	39	23.23	23.15	23.19	1	24	21.00	21.00	21.00	0	21
		75	0	23.07	23.07	23.22	1	24	21.00	21.00	21.00	0	21
	16QAM	1	0	23.54	23.50	23.54	1	24	21.00	21.00	21.00	0	21
		1	37	23.42	23.44	23.55	1	24	21.00	21.00	21.00	0	21
		1	74	23.52	23.37	23.51	1	24	21.00	21.00	21.00	0	21
		36	0	22.51	22.43	22.44	2	23	21.00	21.00	21.00	0	21
		36	20	22.45	22.48	22.48	2	23	21.00	21.00	21.00	0	21
		36	39	22.50	22.43	22.45	2	23	21.00	21.00	21.00	0	21
		75	0	22.45	22.42	22.48	2	23	21.00	21.00	21.00	0	21
	64QAM	1	0	23.00	22.90	23.00	2	23	21.00	21.00	21.00	0	21
		1	37	23.00	22.79	22.97	2	23	21.00	21.00	21.00	0	21
		1	74	22.91	22.75	22.85	2	23	21.00	21.00	21.00	0	21
		36	0	21.76	21.60	21.81	3	22	21.00	21.00	21.00	0	21
		36	20	21.90	21.55	21.80	3	22	21.00	21.00	21.00	0	21
		36	39	21.78	21.55	21.67	3	22	21.00	21.00	21.00	0	21
		75	0	21.82	21.47	21.73	3	22	21.00	21.00	21.00	0	21

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	24.18	24.08	24.21	0	25	21.00	21.00	21.00	0	21
		1	25	24.01	24.04	24.16	0	25	21.00	21.00	21.00	0	21
		1	49	24.04	24.00	24.10	0	25	21.00	21.00	21.00	0	21
		25	0	23.19	23.25	23.33	1	24	21.00	21.00	21.00	0	21
		25	12	23.16	23.26	23.31	1	24	21.00	21.00	21.00	0	21
		25	25	23.12	23.22	23.34	1	24	21.00	21.00	21.00	0	21
		50	0	23.13	23.21	23.33	1	24	21.00	21.00	21.00	0	21
	16QAM	1	0	23.74	23.65	23.63	1	24	21.00	21.00	21.00	0	21
		1	25	23.56	23.59	23.59	1	24	21.00	21.00	21.00	0	21
		1	49	23.58	23.55	23.60	1	24	21.00	21.00	21.00	0	21
		25	0	22.48	22.49	22.58	2	23	21.00	21.00	21.00	0	21
		25	12	22.46	22.48	22.51	2	23	21.00	21.00	21.00	0	21
		25	25	22.41	22.44	22.54	2	23	21.00	21.00	21.00	0	21
		50	0	22.39	22.41	22.52	2	23	21.00	21.00	21.00	0	21
	64QAM	1	0	23.00	22.78	22.94	2	23	21.00	21.00	21.00	0	21
		1	25	22.96	22.67	22.81	2	23	21.00	21.00	21.00	0	21
		1	49	23.00	22.80	22.80	2	23	21.00	21.00	21.00	0	21
		25	0	21.68	21.45	21.71	3	22	21.00	21.00	21.00	0	21
		25	12	21.74	21.44	21.63	3	22	21.00	21.00	21.00	0	21
		25	25	21.85	21.47	21.66	3	22	21.00	21.00	21.00	0	21
		50	0	21.76	21.44	21.65	3	22	21.00	21.00	21.00	0	21

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	24.24	24.24	24.00	0	25	21.00	21.00	21.00	0	21
		1	12	24.01	24.14	24.35	0	25	21.00	20.99	21.00	0	21
		1	24	24.01	24.18	24.26	0	25	21.00	21.00	21.00	0	21
		12	0	23.22	23.23	23.35	1	24	21.00	20.88	21.00	0	21
		12	7	23.15	23.22	23.34	1	24	21.00	20.89	21.00	0	21
		12	13	23.13	23.15	23.25	1	24	21.00	20.91	21.00	0	21
		25	0	23.17	23.16	23.31	1	24	21.00	20.92	21.00	0	21
	16QAM	1	0	23.80	23.63	23.75	1	24	21.00	21.00	21.00	0	21
		1	12	23.64	23.57	23.72	1	24	21.00	21.00	21.00	0	21
		1	24	23.64	23.62	23.70	1	24	21.00	21.00	21.00	0	21
		12	0	22.46	22.41	22.40	2	23	21.00	20.91	21.00	0	21
		12	7	22.38	22.40	22.39	2	23	21.00	20.89	21.00	0	21
		12	13	22.36	22.35	22.34	2	23	21.00	20.92	21.00	0	21
		25	0	22.31	22.32	22.44	2	23	21.00	20.87	21.00	0	21
	64QAM	1	0	23.00	22.68	22.80	2	23	21.00	21.00	21.00	0	21
		1	12	22.92	22.68	22.78	2	23	21.00	21.00	21.00	0	21
		1	24	23.00	22.70	22.82	2	23	21.00	21.00	21.00	0	21
		12	0	21.51	21.28	21.49	3	22	20.88	20.93	21.00	0	21
		12	7	21.40	21.23	21.52	3	22	20.92	20.92	21.00	0	21
		12	13	21.44	21.26	21.45	3	22	20.94	20.95	21.00	0	21
		25	0	21.45	21.29	21.48	3	22	20.91	20.92	21.00	0	21

LTE Band 7 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	17.57	17.42	17.05	0	18	17.70	17.70	17.70	0	18.7
		1	49	17.90	18.00	17.95	0	18	17.90	18.00	17.95	0	18.7
		1	99	17.58	17.22	17.25	0	18	17.70	17.70	17.70	0	18.7
		50	0	17.42	17.22	17.16	0	18	17.70	17.70	17.70	0	18.7
		50	24	17.90	17.90	17.90	0	18	17.90	17.90	17.90	0	18.7
		50	50	17.47	17.15	17.15	0	18	17.70	17.70	17.70	0	18.7
		100	0	17.90	17.90	17.90	0	18	17.90	17.90	17.90	0	18.7
	16QAM	1	0	17.90	17.71	17.29	0	18	17.90	17.71	17.70	0	18.7
		1	49	17.81	17.51	17.50	0	18	17.81	17.70	17.70	0	18.7
		1	99	17.87	17.54	17.48	0	18	17.87	17.70	17.70	0	18.7
		50	0	17.48	17.29	17.13	0	18	17.70	17.70	17.70	0	18.7
		50	24	17.42	17.24	17.21	0	18	17.70	17.70	17.70	0	18.7
		50	50	17.46	17.22	17.19	0	18	17.70	17.70	17.70	0	18.7
		100	0	17.47	17.20	17.26	0	18	17.70	17.70	17.70	0	18.7
	64QAM	1	0	17.92	17.75	17.38	0	18	17.92	17.75	17.70	0	18.7
		1	49	17.77	17.55	17.61	0	18	17.77	17.70	17.70	0	18.7
		1	99	17.87	17.54	17.56	0	18	17.87	17.70	17.70	0	18.7
		50	0	17.42	17.29	17.13	0	18	17.70	17.70	17.70	0	18.7
		50	24	17.44	17.25	17.20	0	18	17.70	17.70	17.70	0	18.7
		50	50	17.47	17.20	17.19	0	18	17.70	17.70	17.70	0	18.7
		100	0	17.46	17.22	17.27	0	18	17.70	17.70	17.70	0	18.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20825	21100	21375	MPR	Tune-up Limit	20825	21100	21375	MPR	Tune-up Limit
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	17.56	17.35	17.18	0	18	17.70	17.70	17.70	0	18.7
		1	37	17.43	17.25	17.27	0	18	17.70	17.70	17.70	0	18.7
		1	74	17.47	17.20	17.21	0	18	17.70	17.70	17.70	0	18.7
		36	0	17.45	17.20	17.17	0	18	17.70	17.70	17.70	0	18.7
		36	20	17.40	17.16	17.20	0	18	17.70	17.70	17.70	0	18.7
		36	39	17.46	17.18	17.14	0	18	17.70	17.70	17.70	0	18.7
		75	0	17.43	17.18	17.23	0	18	17.70	17.70	17.70	0	18.7
	16QAM	1	0	17.81	17.67	17.38	0	18	18.31	17.70	17.70	0	18.7
		1	37	17.79	17.57	17.48	0	18	17.79	17.70	17.70	0	18.7
		1	74	17.86	17.55	17.41	0	18	17.86	17.70	17.70	0	18.7
		36	0	17.46	17.23	17.20	0	18	17.70	17.70	17.70	0	18.7
		36	20	17.40	17.20	17.23	0	18	17.70	17.70	17.70	0	18.7
		36	39	17.45	17.22	17.21	0	18	17.70	17.70	17.70	0	18.7
		75	0	17.41	17.22	17.25	0	18	17.70	17.70	17.70	0	18.7
	64QAM	1	0	17.80	17.61	17.40	0	18	17.80	17.70	17.70	0	18.7
		1	37	17.57	17.48	17.40	0	18	17.70	17.70	17.70	0	18.7
		1	74	17.69	17.46	17.35	0	18	17.70	17.70	17.70	0	18.7
		36	0	17.46	17.28	17.20	0	18	17.70	17.70	17.70	0	18.7
		36	20	17.40	17.22	17.25	0	18	17.70	17.70	17.70	0	18.7
		36	39	17.45	17.25	17.20	0	18	17.70	17.70	17.70	0	18.7
		75	0	17.40	17.23	17.25	0	18	17.70	17.70	17.70	0	18.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800	21100	21400	MPR	Tune-up Limit	20800	21100	21400	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	17.60	17.28	17.26	0	18	17.70	17.70	17.70	0	18.7
		1	25	17.47	17.18	17.24	0	18	17.70	17.70	17.70	0	18.7
		1	49	17.52	17.19	17.34	0	18	17.70	17.70	17.70	0	18.7
		25	0	17.44	17.15	17.23	0	18	17.70	17.70	17.70	0	18.7
		25	12	17.44	17.15	17.19	0	18	17.70	17.70	17.70	0	18.7
		25	25	17.37	17.19	17.18	0	18	17.70	17.70	17.70	0	18.7
		50	0	17.41	17.19	17.15	0	18	17.70	17.70	17.70	0	18.7
	16QAM	1	0	17.96	17.62	17.57	0	18	17.96	17.70	17.70	0	18.7
		1	25	17.79	17.56	17.56	0	18	17.79	17.70	17.70	0	18.7
		1	49	17.83	17.54	17.60	0	18	17.83	17.70	17.70	0	18.7
		25	0	17.44	17.16	17.24	0	18	17.70	17.70	17.70	0	18.7
		25	12	17.41	17.14	17.17	0	18	17.70	17.70	17.70	0	18.7
		25	25	17.42	17.18	17.21	0	18	17.70	17.70	17.70	0	18.7
		50	0	17.42	17.14	17.17	0	18	17.70	17.70	17.70	0	18.7
	64QAM	1	0	17.75	17.42	17.44	0	18	17.75	17.70	17.70	0	18.7
		1	25	17.62	17.31	17.46	0	18	17.70	17.70	17.70	0	18.7
		1	49	17.77	17.33	17.55	0	18	17.77	17.70	17.70	0	18.7
		25	0	17.42	17.21	17.20	0	18	17.70	17.70	17.70	0	18.7
		25	12	17.44	17.22	17.14	0	18	17.70	17.70	17.70	0	18.7
		25	25	17.42	17.27	17.19	0	18	17.70	17.70	17.70	0	18.7
		50	0	17.39	17.24	17.16	0	18	17.70	17.70	17.70	0	18.7

LTE Band 7 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	17.50	17.08	17.18	0	18	17.70	17.70	17.70	0	18.7
		1	12	17.39	17.09	17.19	0	18	17.70	17.70	17.70	0	18.7
		1	24	17.38	17.14	17.26	0	18	17.70	17.70	17.70	0	18.7
		12	0	17.35	17.00	17.08	0	18	17.70	17.70	17.70	0	18.7
		12	7	17.28	17.00	17.11	0	18	17.70	17.70	17.70	0	18.7
		12	13	17.30	17.01	17.04	0	18	17.70	17.70	17.70	0	18.7
		25	0	17.32	17.04	17.14	0	18	17.70	17.70	17.70	0	18.7
	16QAM	1	0	17.82	17.52	17.51	0	18	17.82	17.70	17.70	0	18.7
		1	12	17.69	17.55	17.55	0	18	17.70	17.70	17.70	0	18.7
		1	24	17.74	17.58	17.59	0	18	17.74	17.70	17.70	0	18.7
		12	0	17.32	17.03	17.11	0	18	17.70	17.70	17.70	0	18.7
		12	7	17.24	17.03	17.09	0	18	17.70	17.70	17.70	0	18.7
		12	13	17.30	17.03	17.00	0	18	17.70	17.70	17.70	0	18.7
		25	0	17.24	17.02	17.06	0	18	17.70	17.70	17.70	0	18.7
	64QAM	1	0	17.84	17.44	17.51	0	18	17.84	17.70	17.70	0	18.7
		1	12	17.78	17.43	17.51	0	18	17.78	17.70	17.70	0	18.7
		1	24	17.75	17.48	17.55	0	18	17.75	17.70	17.70	0	18.7
		12	0	17.25	17.00	17.01	0	18	17.70	17.70	17.70	0	18.7
		12	7	17.17	17.00	17.03	0	18	17.70	17.70	17.70	0	18.7
		12	13	17.20	17.00	17.00	0	18	17.70	17.70	17.70	0	18.7
		25	0	17.24	17.00	17.09	0	18	17.70	17.70	17.70	0	18.7

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	24.64		0	25.5	24.64		0	25.5
		1	25	24.79		0	25.5	24.79		0	25.5
		1	49	24.75		0	25.5	24.75		0	25.5
		25	0	23.66		1	24.5	23.66		1	24.5
		25	12	23.72		1	24.5	23.72		1	24.5
		25	25	23.70		1	24.5	23.70		1	24.5
		50	0	23.76		1	24.5	23.76		1	24.5
	16QAM	1	0	23.92		1	24.5	23.92		1	24.5
		1	25	24.08		1	24.5	24.08		1	24.5
		1	49	24.04		1	24.5	24.04		1	24.5
		25	0	22.74		2	23.5	22.74		2	23.5
		25	12	22.81		2	23.5	22.81		2	23.5
		25	25	22.89		2	23.5	22.89		2	23.5
		50	0	22.83		2	23.5	22.83		2	23.5
	64QAM	1	0	23.07		2	23.5	23.07		2	23.5
		1	25	23.30		2	23.5	23.30		2	23.5
		1	49	23.13		2	23.5	23.13		2	23.5
		25	0	21.92		3	22.5	21.92		3	22.5
		25	12	21.93		3	22.5	21.93		3	22.5
		25	25	22.02		3	22.5	22.02		3	22.5
		50	0	21.96		3	22.5	21.96		3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			MPR	Tune-up Limit	Power Mode B (dBm)			MPR	Tune-up Limit
				23035	23095	23155			23035	23095	23155		
				701.5 MHz	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0	24.59	24.75	24.69	0	25.5	24.59	24.75	24.69	0	25.5
		1	12	24.50	24.75	24.58	0	25.5	24.50	24.75	24.58	0	25.5
		1	24	24.63	24.85	24.70	0	25.5	24.63	24.85	24.70	0	25.5
		12	0	23.50	23.67	23.50	1	24.5	23.50	23.67	23.50	1	24.5
		12	7	23.50	23.63	23.50	1	24.5	23.50	23.63	23.50	1	24.5
		12	13	23.50	23.64	23.50	1	24.5	23.50	23.64	23.50	1	24.5
		25	0	23.50	23.75	23.54	1	24.5	23.50	23.75	23.54	1	24.5
	16QAM	1	0	23.90	24.12	24.14	1	24.5	23.90	24.12	24.14	1	24.5
		1	12	23.50	24.17	24.01	1	24.5	23.50	24.17	24.01	1	24.5
		1	24	24.02	24.26	24.21	1	24.5	24.02	24.26	24.21	1	24.5
		12	0	22.50	22.62	22.50	2	23.5	22.50	22.62	22.50	2	23.5
		12	7	22.50	22.64	22.52	2	23.5	22.50	22.64	22.52	2	23.5
		12	13	22.50	22.63	22.54	2	23.5	22.50	22.63	22.54	2	23.5
		25	0	22.50	22.76	22.56	2	23.5	22.50	22.76	22.56	2	23.5
	64QAM	1	0	22.95	23.17	23.24	2	23.5	22.95	23.17	23.24	2	23.5
		1	12	22.88	23.16	23.16	2	23.5	22.88	23.16	23.16	2	23.5
		1	24	23.05	23.25	23.27	2	23.5	23.05	23.25	23.27	2	23.5
		12	0	21.51	21.72	21.56	3	22.5	21.51	21.72	21.56	3	22.5
		12	7	21.47	21.73	21.50	3	22.5	21.47	21.73	21.50	3	22.5
		12	13	21.53	21.74	21.54	3	22.5	21.53	21.74	21.54	3	22.5
		25	0	21.58	21.72	21.63	3	22.5	21.58	21.72	21.63	3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			MPR	Tune-up Limit	Power Mode B (dBm)			MPR	Tune-up Limit
				23025	23095	23165			23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz			700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	24.50	24.71	24.61	0	25.5	24.50	24.71	24.61	0	25.5
		1	8	24.52	24.78	24.61	0	25.5	24.52	24.78	24.61	0	25.5
		1	14	24.50	24.74	24.62	0	25.5	24.50	24.74	24.62	0	25.5
		8	0	23.50	23.57	23.50	1	24.5	23.50	23.57	23.50	1	24.5
		8	4	23.50	23.56	23.50	1	24.5	23.50	23.56	23.50	1	24.5
		8	7	23.50	23.56	23.50	1	24.5	23.50	23.56	23.50	1	24.5
		15	0	23.53	23.68	23.62	1	24.5	23.53	23.68	23.62	1	24.5
	16QAM	1	0	23.88	24.04	23.93	1	24.5	23.88	24.04	23.93	1	24.5
		1	8	23.92	24.06	23.98	1	24.5	23.92	24.06	23.98	1	24.5
		1	14	23.86	23.97	23.99	1	24.5	23.86	23.97	23.99	1	24.5
		8	0	22.50	22.54	22.50	2	23.5	22.50	22.54	22.50	2	23.5
		8	4	22.50	22.53	22.50	2	23.5	22.50	22.53	22.50	2	23.5
		8	7	22.50	22.53	22.50	2	23.5	22.50	22.53	22.50	2	23.5
		15	0	22.50	22.59	22.50	2	23.5	22.50	22.59	22.50	2	23.5
	64QAM	1	0	22.82	23.09	22.95	2	23.5	22.82	23.09	22.95	2	23.5
		1	8	22.81	23.16	22.94	2	23.5	22.81	23.16	22.94	2	23.5
		1	14	22.87	23.05	22.98	2	23.5	22.87	23.05	22.98	2	23.5
		8	0	21.50	21.61	21.50	3	22.5	21.50	21.61	21.50	3	22.5
		8	4	21.50	21.61	21.50	3	22.5	21.50	21.61	21.50	3	22.5
		8	7	21.50	21.64	21.50	3	22.5	21.50	21.64	21.50	3	22.5
		15	0	21.50	21.68	21.58	3	22.5	21.50	21.68	21.58	3	22.5

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	24.63	24.84	24.62	0	25.5	24.63	24.84	24.62	0	25.5
		1	3	24.62	24.80	24.61	0	25.5	24.62	24.80	24.61	0	25.5
		1	5	24.63	24.83	24.69	0	25.5	24.63	24.83	24.69	0	25.5
		3	0	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		3	1	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		3	3	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		6	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
	16QAM	1	0	23.86	24.20	23.86	1	24.5	23.86	24.20	23.86	1	24.5
		1	3	23.85	24.16	23.85	1	24.5	23.85	24.16	23.85	1	24.5
		1	5	23.88	24.17	23.93	1	24.5	23.88	24.17	23.93	1	24.5
		3	0	23.54	23.73	23.52	1	24.5	23.54	23.73	23.52	1	24.5
		3	1	23.52	23.72	23.51	1	24.5	23.52	23.72	23.51	1	24.5
		3	3	23.50	23.72	23.50	1	24.5	23.50	23.72	23.50	1	24.5
		6	0	22.50	22.52	22.50	2	23.5	22.50	22.52	22.50	2	23.5
	64QAM	1	0	23.26	23.28	23.34	2	23.5	23.26	23.28	23.34	2	23.5
		1	3	23.18	23.23	23.30	2	23.5	23.18	23.23	23.30	2	23.5
		1	5	23.08	23.33	23.30	2	23.5	23.08	23.33	23.30	2	23.5
		3	0	22.75	22.86	22.83	2	23.5	22.75	22.86	22.83	2	23.5
		3	1	22.75	22.81	22.82	2	23.5	22.75	22.81	22.82	2	23.5
		3	3	22.71	22.84	22.83	2	23.5	22.71	22.84	22.83	2	23.5
		6	0	21.63	21.61	21.60	3	22.5	21.63	21.61	21.60	3	22.5

LTE Band 12 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23095	MPR	Tune-up Limit	23095	MPR	Tune-up Limit
				707.5 MHz			707.5 MHz		
10 MHz	QPSK	1	0	23.50	0	24.5	23.50	0	24.5
		1	25	23.50	0	24.5	23.50	0	24.5
		1	49	23.50	0	24.5	23.50	0	24.5
		25	0	22.50	1	23.5	22.50	1	23.5
		25	12	22.50	1	23.5	22.50	1	23.5
		25	25	22.50	1	23.5	22.50	1	23.5
		50	0	22.50	1	23.5	22.50	1	23.5
	16QAM	1	0	22.50	1	23.5	22.50	1	23.5
		1	25	22.50	1	23.5	22.50	1	23.5
		1	49	22.50	1	23.5	22.50	1	23.5
		25	0	21.50	2	22.5	21.50	2	22.5
		25	12	21.50	2	22.5	21.50	2	22.5
		25	25	21.50	2	22.5	21.50	2	22.5
		50	0	21.50	2	22.5	21.50	2	22.5
	64QAM	1	0	21.79	2	22.5	21.79	2	22.5
		1	25	21.72	2	22.5	21.72	2	22.5
		1	49	21.84	2	22.5	21.84	2	22.5
		25	0	20.50	3	21.5	20.50	3	21.5
		25	12	20.50	3	21.5	20.50	3	21.5
		25	25	20.61	3	21.5	20.61	3	21.5
		50	0	20.50	3	21.5	20.50	3	21.5

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	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	12	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	24	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		12	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		12	7	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		12	13	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		25	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
	16QAM	1	0	22.50	22.66	22.78	1	23.5	22.50	22.66	22.78	1	23.5
		1	12	22.52	22.65	22.69	1	23.5	22.52	22.65	22.69	1	23.5
		1	24	22.57	22.87	22.82	1	23.5	22.57	22.87	22.82	1	23.5
		12	0	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		12	7	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		12	13	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		25	0	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
	64QAM	1	0	21.74	21.75	21.94	2	22.5	21.74	21.75	21.94	2	22.5
		1	12	21.73	21.72	21.86	2	22.5	21.73	21.72	21.86	2	22.5
		1	24	21.77	21.89	21.98	2	22.5	21.77	21.89	21.98	2	22.5
		12	0	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		12	7	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		12	13	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		25	0	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5

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	707.5 MHz	714.5 MHz			700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	8	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	14	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		8	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		8	4	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		8	7	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		15	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
	16QAM	1	0	22.50	22.51	22.57	1	23.5	22.50	22.51	22.57	1	23.5
		1	8	22.50	22.58	22.69	1	23.5	22.50	22.58	22.69	1	23.5
		1	14	22.50	22.63	22.67	1	23.5	22.50	22.63	22.67	1	23.5
		8	0	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		8	4	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		8	7	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		15	0	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
	64QAM	1	0	21.60	21.58	21.60	2	22.5	21.60	21.58	21.60	2	22.5
		1	8	21.62	21.61	21.77	2	22.5	21.62	21.61	21.77	2	22.5
		1	14	21.65	21.71	21.70	2	22.5	21.65	21.71	21.70	2	22.5
		8	0	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		8	4	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		8	7	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5
		15	0	20.50	20.50	20.50	3	21.5	20.50	20.50	20.50	3	21.5

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	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	3	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		1	5	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		3	0	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		3	1	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		3	3	23.50	23.50	23.50	0	24.5	23.50	23.50	23.50	0	24.5
		6	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
	16QAM	1	0	22.50	22.58	22.80	1	23.5	22.50	22.58	22.80	1	23.5
		1	3	22.50	22.54	22.79	1	23.5	22.50	22.54	22.79	1	23.5
		1	5	22.50	22.59	22.81	1	23.5	22.50	22.59	22.81	1	23.5
		3	0	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		3	1	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		3	3	22.50	22.50	22.50	1	23.5	22.50	22.50	22.50	1	23.5
		6	0	22.50	22.50	22.50	2	22.5	22.50	22.50	22.50	2	22.5
	64QAM	1	0	21.61	21.66	21.96	2	22.5	21.61	21.66	21.96	2	22.5
		1	3	21.58	21.70	21.93	2	22.5	21.58	21.70	21.93	2	22.5
		1	5	21.61	21.71	21.92	2	22.5	21.61	21.71	21.92	2	22.5
		3	0	21.50	21.50	21.51	2	22.5	21.50	21.50	21.51	2	22.5
		3	1	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		3	3	21.50	21.50	21.50	2	22.5	21.50	21.50	21.50	2	22.5
		6	0	21.50	21.50	21.50	3	21.5	21.50	21.50	21.50	3	21.5

LTE Band 13 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23230	MPR	Tune-up Limit	23230	MPR	Tune-up Limit
				782 MHz			782 MHz		
10 MHz	QPSK	1	0	24.75	0	25.5	24.75	0	25.5
		1	25	24.80	0	25.5	24.80	0	25.5
		1	49	24.73	0	25.5	24.73	0	25.5
		25	0	23.70	1	24.5	23.70	1	24.5
		25	12	23.70	1	24.5	23.70	1	24.5
		25	25	23.66	1	24.5	23.66	1	24.5
		50	0	23.65	1	24.5	23.65	1	24.5
	16QAM	1	0	24.35	1	24.5	24.35	1	24.5
		1	25	24.07	1	24.5	24.07	1	24.5
		1	49	24.21	1	24.5	24.21	1	24.5
		25	0	22.77	2	23.5	22.77	2	23.5
		25	12	22.63	2	23.5	22.63	2	23.5
		25	25	22.77	2	23.5	22.77	2	23.5
		50	0	22.66	2	23.5	22.66	2	23.5
	64QAM	1	0	23.45	2	23.5	23.45	2	23.5
		1	25	22.98	2	23.5	22.98	2	23.5
		1	49	23.21	2	23.5	23.21	2	23.5
		25	0	21.95	3	22.5	21.95	3	22.5
		25	12	21.81	3	22.5	21.81	3	22.5
		25	25	21.93	3	22.5	21.93	3	22.5
		50	0	21.87	3	22.5	21.87	3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23230	MPR	Tune-up Limit	23230	MPR	Tune-up Limit
				782 MHz			782 MHz		
5 MHz	QPSK	1	0	24.71	0	25.5	24.71	0	25.5
		1	12	24.52	0	25.5	24.52	0	25.5
		1	24	24.64	0	25.5	24.64	0	25.5
		12	0	23.54	1	24.5	23.54	1	24.5
		12	7	23.50	1	24.5	23.50	1	24.5
		12	13	23.50	1	24.5	23.50	1	24.5
		25	0	23.53	1	24.5	23.53	1	24.5
	16QAM	1	0	24.05	1	24.5	24.05	1	24.5
		1	12	23.95	1	24.5	23.95	1	24.5
		1	24	24.02	1	24.5	24.02	1	24.5
		12	0	22.59	2	23.5	22.59	2	23.5
		12	7	22.52	2	23.5	22.52	2	23.5
		12	13	22.61	2	23.5	22.61	2	23.5
		25	0	22.55	2	23.5	22.55	2	23.5
	64QAM	1	0	23.19	2	23.5	23.19	2	23.5
		1	12	22.99	2	23.5	22.99	2	23.5
		1	24	23.14	2	23.5	23.14	2	23.5
		12	0	21.67	3	22.5	21.67	3	22.5
		12	7	21.54	3	22.5	21.54	3	22.5
		12	13	21.62	3	22.5	21.62	3	22.5
		25	0	21.64	3	22.5	21.64	3	22.5

LTE Band 13 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23230 / 782 MHz	MPR	Tune-up Limit	23230 / 782 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	23.50	0	24.5	23.50	0	24.5
		1	25	23.55	0	24.5	23.55	0	24.5
		1	49	23.50	0	24.5	23.50	0	24.5
		25	0	22.54	1	23.5	22.54	1	23.5
		25	12	22.57	1	23.5	22.57	1	23.5
		25	25	22.50	1	23.5	22.50	1	23.5
		50	0	22.53	1	23.5	22.53	1	23.5
	16QAM	1	0	23.13	1	23.5	23.13	1	23.5
		1	25	23.03	1	23.5	23.03	1	23.5
		1	49	22.90	1	23.5	22.90	1	23.5
		25	0	21.58	2	22.5	21.58	2	22.5
		25	12	21.63	2	22.5	21.63	2	22.5
		25	25	21.54	2	22.5	21.54	2	22.5
		50	0	21.56	2	22.5	21.56	2	22.5
	64QAM	1	0	22.28	2	22.5	22.28	2	22.5
		1	25	22.15	2	22.5	22.15	2	22.5
		1	49	21.96	2	22.5	21.96	2	22.5
		25	0	20.77	3	21.5	20.77	3	21.5
		25	12	20.80	3	21.5	20.80	3	21.5
		25	25	20.71	3	21.5	20.71	3	21.5
		50	0	20.73	3	21.5	20.73	3	21.5

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	23.51	0	24.5	23.51	0	24.5
		1	12	23.50	0	24.5	23.50	0	24.5
		1	24	23.50	0	24.5	23.50	0	24.5
		12	0	22.50	1	23.5	22.50	1	23.5
		12	7	22.50	1	23.5	22.50	1	23.5
		12	13	22.50	1	23.5	22.50	1	23.5
		25	0	22.50	1	23.5	22.50	1	23.5
	16QAM	1	0	23.06	1	23.5	23.06	1	23.5
		1	12	23.04	1	23.5	23.04	1	23.5
		1	24	23.06	1	23.5	23.06	1	23.5
		12	0	21.54	2	22.5	21.54	2	22.5
		12	7	21.52	2	22.5	21.52	2	22.5
		12	13	21.50	2	22.5	21.50	2	22.5
		25	0	21.50	2	22.5	21.50	2	22.5
	64QAM	1	0	22.07	2	22.5	22.07	2	22.5
		1	12	22.02	2	22.5	22.02	2	22.5
		1	24	22.00	2	22.5	22.00	2	22.5
		12	0	20.62	3	21.5	20.62	3	21.5
		12	7	20.55	3	21.5	20.55	3	21.5
		12	13	21.50	3	21.5	21.50	3	21.5
		25	0	20.56	3	21.5	20.56	3	21.5

LTE Band 14 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23330 / 793 MHz	MPR	Tune-up Limit	23330 / 793 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.69	0	25.5	24.69	0	25.5
		1	25	24.71	0	25.5	24.71	0	25.5
		1	49	24.70	0	25.5	24.70	0	25.5
		25	0	23.65	1	24.5	23.65	1	24.5
		25	12	23.69	1	24.5	23.69	1	24.5
		25	25	23.65	1	24.5	23.65	1	24.5
		50	0	23.81	1	24.5	23.81	1	24.5
	16QAM	1	0	24.01	1	24.5	24.01	1	24.5
		1	25	24.09	1	24.5	24.09	1	24.5
		1	49	24.23	1	24.5	24.23	1	24.5
		25	0	22.75	2	23.5	22.75	2	23.5
		25	12	22.81	2	23.5	22.81	2	23.5
		25	25	22.88	2	23.5	22.88	2	23.5
		50	0	22.87	2	23.5	22.87	2	23.5
	64QAM	1	0	22.97	2	23.5	22.97	2	23.5
		1	25	23.02	2	23.5	23.02	2	23.5
		1	49	23.11	2	23.5	23.11	2	23.5
		25	0	21.82	3	22.5	21.82	3	22.5
		25	12	21.85	3	22.5	21.85	3	22.5
		25	25	21.95	3	22.5	21.95	3	22.5
		50	0	21.94	3	22.5	21.94	3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23330 / 793 MHz	MPR	Tune-up Limit	23330 / 793 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	24.69	0	25.5	24.69	0	25.5
		1	12	24.77	0	25.5	24.77	0	25.5
		1	24	24.82	0	25.5	24.82	0	25.5
		12	0	23.66	1	24.5	23.66	1	24.5
		12	7	23.65	1	24.5	23.65	1	24.5
		12	13	23.75	1	24.5	23.75	1	24.5
		25	0	23.74	1	24.5	23.74	1	24.5
	16QAM	1	0	24.19	1	24.5	24.19	1	24.5
		1	12	24.27	1	24.5	24.27	1	24.5
		1	24	24.30	1	24.5	24.30	1	24.5
		12	0	22.64	2	23.5	22.64	2	23.5
		12	7	22.65	2	23.5	22.65	2	23.5
		12	13	22.72	2	23.5	22.72	2	23.5
		25	0	22.72	2	23.5	22.72	2	23.5
	64QAM	1	0	23.00	2	23.5	23.00	2	23.5
		1	12	23.09	2	23.5	23.09	2	23.5
		1	24	23.15	2	23.5	23.15	2	23.5
		12	0	21.69	3	22.5	21.69	3	22.5
		12	7	21.66	3	22.5	21.66	3	22.5
		12	13	21.76	3	22.5	21.76	3	22.5
		25	0	21.78	3	22.5	21.78	3	22.5

LTE Band 14 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23330 / 793 MHz	MPR	Tune-up Limit	23330 / 793 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	23.58	0	24.5	23.58	0	24.5
		1	25	23.58	0	24.5	23.58	0	24.5
		1	49	23.50	0	24.5	23.50	0	24.5
		25	0	22.52	1	23.5	22.52	1	23.5
		25	12	22.61	1	23.5	22.61	1	23.5
		25	25	22.60	1	23.5	22.60	1	23.5
		50	0	22.68	1	23.5	22.68	1	23.5
	16QAM	1	0	23.03	1	23.5	23.03	1	23.5
		1	25	23.01	1	23.5	23.01	1	23.5
		1	49	23.13	1	23.5	23.13	1	23.5
		25	0	21.56	2	22.5	21.56	2	22.5
		25	12	21.67	2	22.5	21.67	2	22.5
		25	25	21.77	2	22.5	21.77	2	22.5
		50	0	21.74	2	22.5	21.74	2	22.5
	64QAM	1	0	22.05	2	22.5	22.05	2	22.5
		1	25	21.83	2	22.5	21.83	2	22.5
		1	49	22.13	2	22.5	22.13	2	22.5
		25	0	20.64	3	21.5	20.64	3	21.5
		25	12	20.66	3	21.5	20.66	3	21.5
		25	25	20.87	3	21.5	20.87	3	21.5
		50	0	20.76	3	21.5	20.76	3	21.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				23330 / 793 MHz	MPR	Tune-up Limit	23330 / 793 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	23.63	0	24.5	23.63	0	24.5
		1	12	23.81	0	24.5	23.81	0	24.5
		1	24	23.86	0	24.5	23.86	0	24.5
		12	0	22.56	1	23.5	22.56	1	23.5
		12	7	22.61	1	23.5	22.61	1	23.5
		12	13	22.69	1	23.5	22.69	1	23.5
		25	0	22.71	1	23.5	22.71	1	23.5
	16QAM	1	0	22.93	1	23.5	22.93	1	23.5
		1	12	23.11	1	23.5	23.11	1	23.5
		1	24	23.17	1	23.5	23.17	1	23.5
		12	0	21.55	2	22.5	21.55	2	22.5
		12	7	21.61	2	22.5	21.61	2	22.5
		12	13	21.68	2	22.5	21.68	2	22.5
		25	0	21.68	2	22.5	21.68	2	22.5
	64QAM	1	0	21.88	2	22.5	21.88	2	22.5
		1	12	21.89	2	22.5	21.89	2	22.5
		1	24	22.11	2	22.5	22.11	2	22.5
		12	0	20.50	3	21.5	20.50	3	21.5
		12	7	20.50	3	21.5	20.50	3	21.5
		12	13	20.50	3	21.5	20.50	3	21.5
		25	0	20.52	3	21.5	20.52	3	21.5

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	24.50	24.50	24.50	0	25.5	20.41	20.47	20.29	0	21
		1	49	24.50	24.50	24.50	0	25.5	20.45	20.50	20.41	0	21
		1	99	24.50	24.50	24.50	0	25.5	20.44	20.30	20.40	0	21
		50	0	23.59	23.50	23.50	1	24.5	20.32	20.24	20.28	0	21
		50	24	23.59	23.50	23.54	1	24.5	20.33	20.25	20.40	0	21
		50	50	23.56	23.50	23.54	1	24.5	20.33	20.22	20.40	0	21
		100	0	23.56	23.50	23.58	1	24.5	20.30	20.30	20.49	0	21
	16QAM	1	0	23.92	24.03	23.76	1	24.5	20.74	20.75	20.64	0	21
		1	49	23.99	23.84	23.88	1	24.5	20.75	20.75	20.75	0	21
		1	99	23.97	23.85	23.90	1	24.5	20.75	20.75	20.75	0	21
		50	0	22.81	22.71	22.65	2	23.5	20.43	20.35	20.30	0	21
		50	24	22.79	22.62	22.72	2	23.5	20.42	20.27	20.40	0	21
		50	50	22.75	22.68	22.79	2	23.5	20.34	20.34	20.44	0	21
		100	0	22.81	22.67	22.79	2	23.5	20.44	20.32	20.49	0	21
	64QAM	1	0	22.81	23.09	23.08	2	23.5	20.75	20.75	20.61	0	21
		1	49	22.81	23.03	22.94	2	23.5	20.75	20.75	20.58	0	21
		1	99	22.73	22.92	22.73	2	23.5	20.75	20.75	20.70	0	21
		50	0	21.86	21.87	21.80	3	22.5	20.63	20.62	20.53	0	21
		50	24	21.82	21.78	21.70	3	22.5	20.58	20.53	20.42	0	21
		50	50	21.70	21.74	21.67	3	22.5	20.45	20.49	20.41	0	21
		100	0	21.82	21.80	21.76	3	22.5	20.58	20.57	20.48	0	21

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	24.50	24.50	24.50	0	25.5	20.39	20.34	20.30	0	21
		1	37	24.50	24.50	24.50	0	25.5	20.42	20.26	20.39	0	21
		1	74	24.50	24.50	24.50	0	25.5	20.34	20.29	20.38	0	21
		36	0	23.58	23.50	23.53	1	24.5	20.37	20.30	20.32	0	21
		36	20	23.57	23.50	23.56	1	24.5	20.36	20.25	20.34	0	21
		36	39	23.61	23.50	23.57	1	24.5	20.40	20.29	20.36	0	21
		75	0	23.59	23.50	23.60	1	24.5	20.39	20.25	20.39	0	21
	16QAM	1	0	23.87	23.85	23.85	1	24.5	20.75	20.75	20.64	0	21
		1	37	23.94	23.79	23.97	1	24.5	20.75	20.64	20.70	0	21
		1	74	23.89	23.80	23.96	1	24.5	20.72	20.67	20.69	0	21
		36	0	22.78	22.69	22.72	2	23.5	20.38	20.32	20.36	0	21
		36	20	22.76	22.63	22.74	2	23.5	20.38	20.25	20.38	0	21
		36	39	22.79	22.67	22.75	2	23.5	20.41	20.29	20.38	0	21
		75	0	22.76	22.64	22.76	2	23.5	20.39	20.26	20.41	0	21
	64QAM	1	0	22.98	23.06	22.99	2	23.5	20.75	20.75	20.75	0	21
		1	37	22.95	23.05	22.87	2	23.5	20.75	20.75	20.66	0	21
		1	74	22.86	22.96	22.87	2	23.5	20.71	20.73	20.74	0	21
		36	0	21.89	21.82	21.70	3	22.5	20.64	20.58	20.44	0	21
		36	20	21.82	21.75	21.66	3	22.5	20.59	20.50	20.41	0	21
		36	39	21.82	21.73	21.64	3	22.5	20.59	20.49	20.41	0	21
		75	0	21.79	21.75	21.65	3	22.5	20.55	20.50	20.40	0	21

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	24.50	24.50	24.60	0	25.5	20.36	20.31	20.47	0	21
		1	25	24.54	24.50	24.53	0	25.5	20.38	20.20	20.50	0	21
		1	49	24.59	24.50	24.54	0	25.5	20.43	20.28	20.44	0	21
		25	0	23.59	23.50	23.54	1	24.5	20.31	20.19	20.33	0	21
		25	12	23.61	23.50	23.57	1	24.5	20.33	20.16	20.35	0	21
		25	25	23.58	23.50	23.57	1	24.5	20.32	20.16	20.32	0	21
		50	0	23.63	23.50	23.62	1	24.5	20.35	20.17	20.38	0	21
	16QAM	1	0	23.91	23.94	23.91	1	24.5	20.73	20.70	20.71	0	21
		1	25	23.99	23.81	23.88	1	24.5	20.75	20.61	20.71	0	21
		1	49	24.03	23.89	23.96	1	24.5	20.75	20.66	20.71	0	21
		25	0	22.74	22.65	22.69	2	23.5	20.35	20.23	20.38	0	21
		25	12	22.76	22.65	22.71	2	23.5	20.36	20.21	20.38	0	21
		25	25	22.73	22.65	22.69	2	23.5	20.37	20.20	20.36	0	21
		50	0	22.77	22.64	22.73	2	23.5	20.37	20.20	20.38	0	21
	64QAM	1	0	22.99	23.06	22.87	2	23.5	20.75	20.75	20.73	0	21
		1	25	23.03	22.88	22.83	2	23.5	20.75	20.71	20.66	0	21
		1	49	23.03	22.90	22.93	2	23.5	20.75	20.71	20.75	0	21
		25	0	21.86	21.83	21.64	3	22.5	20.54	20.50	20.39	0	21
		25	12	21.86	21.79	21.65	3	22.5	20.53	20.49	20.40	0	21
		25	25	21.82	21.79	21.64	3	22.5	20.50	20.49	20.38	0	21
		50	0	21.85	21.78	21.67	3	22.5	20.53	20.48	20.40	0	21

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	24.52	24.50	24.61	0	25.5	20.37	20.25	20.44	0	21
		1	12	24.50	24.50	24.53	0	25.5	20.40	20.21	20.36	0	21
		1	24	24.56	24.50	24.57	0	25.5	20.44	20.25	20.43	0	21
		12	0	24.50	23.50	23.51	1	24.5	20.22	20.13	20.29	0	21
		12	7	23.54	23.50	23.50	1	24.5	20.29	20.11	20.26	0	21
		12	13	23.55	23.50	23.52	1	24.5	20.30	20.11	20.28	0	21
		25	0	23.57	23.50	23.58	1	24.5	20.32	20.14	20.35	0	21
	16QAM	1	0	24.02	23.86	23.99	1	24.5	20.67	20.64	20.75	0	21
		1	12	24.06	23.83	23.95	1	24.5	20.72	20.62	20.75	0	21
		1	24	24.13	23.85	24.04	1	24.5	20.74	20.63	20.75	0	21
		12	0	22.61	22.53	22.58	2	23.5	20.21	20.11	20.33	0	21
		12	7	22.69	22.50	22.57	2	23.5	20.26	20.08	20.27	0	21
		12	13	22.70	22.50	22.58	2	23.5	20.27	20.09	20.27	0	21
		25	0	22.66	22.50	22.70	2	23.5	20.25	20.14	20.28	0	21
	64QAM	1	0	22.99	22.97	22.85	2	23.5	20.75	20.75	20.70	0	21
		1	12	23.06	22.91	22.78	2	23.5	20.75	20.71	20.67	0	21
		1	24	23.08	22.93	22.91	2	23.5	20.75	20.72	20.75	0	21
		12	0	21.50	21.52	21.53	3	22.5	20.25	20.30	20.22	0	21
		12	7	21.58	21.52	21.50	3	22.5	20.32	20.28	20.23	0	21
		12	13	21.60	21.53	21.57	3	22.5	20.33	20.30	20.32	0	21
		25	0	21.62	21.57	21.51	3	22.5	20.37	20.32	20.25	0	21

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	24.50	24.50	24.63	0	25.5	20.25	20.12	20.34	0	21
		1	8	24.50	24.50	24.65	0	25.5	20.26	20.15	20.37	0	21
		1	14	24.52	24.40	24.57	0	25.5	20.29	20.09	20.35	0	21
		8	0	23.50	23.50	23.50	1	24.5	20.05	20.01	20.16	0	21
		8	4	23.50	23.50	23.50	1	24.5	20.03	20.00	20.16	0	21
		8	7	23.50	23.50	23.50	1	24.5	20.04	20.00	20.17	0	21
		15	0	23.52	23.50	23.60	1	24.5	20.17	20.06	20.26	0	21
	16QAM	1	0	23.82	23.74	23.86	1	24.5	20.58	20.48	20.58	0	21
		1	8	23.83	23.78	23.96	1	24.5	20.63	20.53	20.59	0	21
		1	14	23.85	23.74	23.87	1	24.5	20.60	20.45	20.58	0	21
		8	0	22.50	22.50	22.50	2	23.5	20.05	20.00	20.13	0	21
		8	4	22.50	22.50	22.50	2	23.5	20.04	20.00	20.12	0	21
		8	7	22.50	22.50	22.51	2	23.5	20.03	20.00	20.13	0	21
		15	0	22.50	22.50	22.55	2	23.5	20.07	20.00	20.18	0	21
	64QAM	1	0	22.75	22.79	22.76	2	23.5	20.57	20.67	20.54	0	21
		1	8	22.77	22.88	22.85	2	23.5	20.65	20.69	20.62	0	21
		1	14	22.79	22.79	22.74	2	23.5	20.70	20.69	20.62	0	21
		8	0	21.50	21.56	21.50	3	22.5	20.22	20.28	20.11	0	21
		8	4	21.50	21.54	21.50	3	22.5	20.22	20.27	20.16	0	21
		8	7	21.50	21.53	21.50	3	22.5	20.23	20.27	20.17	0	21
		15	0	21.50	21.55	21.50	3	22.5	20.19	20.27	20.25	0	21

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	24.72	24.58	24.76	0	25.5	20.28	20.12	20.40	0	21
		1	3	24.67	24.58	24.79	0	25.5	20.25	20.08	20.39	0	21
		1	5	24.68	24.61	24.81	0	25.5	20.27	20.11	20.44	0	21
		3	0	24.50	24.50	24.63	0	25.5	20.02	20.00	20.13	0	21
		3	1	24.50	24.50	24.61	0	25.5	20.01	20.00	20.15	0	21
		3	3	24.50	24.50	24.61	0	25.5	20.00	20.00	20.14	0	21
		6	0	23.50	23.50	23.58	1	24.5	20.08	20.00	20.00	0	21
	16QAM	1	0	23.97	23.98	23.97	1	24.5	20.61	20.31	20.62	0	21
		1	3	23.92	23.90	23.95	1	24.5	20.58	20.30	20.58	0	21
		1	5	23.99	23.89	24.05	1	24.5	20.60	20.31	20.59	0	21
		3	0	23.68	23.50	23.60	1	24.5	20.18	20.02	20.29	0	21
		3	1	23.67	23.50	23.68	1	24.5	20.16	20.04	20.30	0	21
		3	3	23.68	23.50	23.60	1	24.5	20.15	20.05	20.31	0	21
		6	0	22.63	23.50	22.52	2	23.5	20.00	20.00	20.18	0	21
	64QAM	1	0	23.02	22.84	22.88	2	23.5	20.75	20.75	20.51	0	21
		1	3	23.08	22.78	22.89	2	23.5	20.75	20.75	20.75	0	21
		1	5	23.05	22.81	22.80	2	23.5	20.75	20.75	20.75	0	21
		3	0	22.69	22.57	22.60	2	23.5	20.75	20.73	20.73	0	21
		3	1	22.69	22.60	22.61	2	23.5	20.75	20.71	20.75	0	21
		3	3	22.65	22.59	22.61	2	23.5	20.74	20.70	20.71	0	21
		6	0	21.50	21.50	21.50	3	22.5	20.72	20.65	20.69	0	21

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	18.50	18.50	18.50	0	18.5	17.60	17.70	17.70	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	17.60	17.70	17.70	0	17.7
		1	99	18.50	18.50	18.50	0	18.5	17.60	17.70	17.70	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	17.60	17.60	17.70	0	17.7
		50	24	18.50	18.50	18.50	0	18.5	17.60	17.60	17.70	0	17.7
		50	50	18.50	18.50	18.50	0	18.5	17.60	17.60	17.70	0	17.7
		100	0	18.50	18.50	18.50	0	18.5	17.60	17.60	17.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.28	17.31	17.08	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	17.27	17.26	17.02	0	17.7
		1	99	18.50	18.50	18.50	0	18.5	17.22	17.16	17.04	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	16.91	16.82	16.70	0	17.7
		50	24	18.50	18.50	18.50	0	18.5	16.83	16.79	16.70	0	17.7
		50	50	18.50	18.50	18.50	0	18.5	16.70	16.71	16.70	0	17.7
		100	0	18.50	18.50	18.50	0	18.5	16.84	16.78	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.60	17.54	17.55	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	17.69	17.40	17.64	0	17.7
		1	99	18.50	18.50	18.50	0	18.5	17.69	17.31	17.62	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	17.30	17.30	17.19	0	17.7
		50	24	18.50	18.50	18.50	0	18.5	17.29	17.20	17.26	0	17.7
		50	50	18.50	18.50	18.50	0	18.5	17.26	17.16	17.21	0	17.7
		100	0	18.50	18.50	18.50	0	18.5	17.34	17.25	17.33	0	17.7

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	18.50	18.50	18.50	0	18.5	16.95	16.80	16.75	0	17.7
		1	37	18.50	18.50	18.50	0	18.5	16.93	16.76	16.70	0	17.7
		1	74	18.50	18.50	18.50	0	18.5	16.77	16.70	16.70	0	17.7
		36	0	18.50	18.50	18.50	0	18.5	16.87	16.75	16.70	0	17.7
		36	20	18.50	18.50	18.50	0	18.5	16.86	16.73	16.70	0	17.7
		36	39	18.50	18.50	18.50	0	18.5	16.84	16.70	16.70	0	17.7
		75	0	18.50	18.50	18.50	0	18.5	16.86	16.77	16.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.30	17.22	17.07	0	17.7
		1	37	18.50	18.50	18.50	0	18.5	17.28	17.14	16.91	0	17.7
		1	74	18.50	18.50	18.50	0	18.5	17.12	17.07	17.02	0	17.7
		36	0	18.50	18.50	18.50	0	18.5	16.89	16.79	16.70	0	17.7
		36	20	18.50	18.50	18.50	0	18.5	16.88	16.76	16.70	0	17.7
		36	39	18.50	18.50	18.50	0	18.5	16.87	16.70	16.70	0	17.7
		75	0	18.50	18.50	18.50	0	18.5	16.85	16.77	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.61	17.55	17.49	0	17.7
		1	37	18.50	18.50	18.50	0	18.5	17.57	17.47	17.57	0	17.7
		1	74	18.50	18.50	18.50	0	18.5	17.53	17.39	17.52	0	17.7
		36	0	18.50	18.50	18.50	0	18.5	17.29	17.26	17.23	0	17.7
		36	20	18.50	18.50	18.50	0	18.5	17.31	17.28	17.22	0	17.7
		36	39	18.50	18.50	18.50	0	18.5	17.29	17.16	17.15	0	17.7
		75	0	18.50	18.50	18.50	0	18.5	17.28	17.20	17.23	0	17.7

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	18.50	18.50	18.50	0	18.5	16.93	16.82	16.70	0	17.7
		1	25	18.50	18.50	18.50	0	18.5	16.92	16.77	16.70	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	16.94	16.75	16.73	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	16.85	16.72	16.70	0	17.7
		25	12	18.50	18.50	18.50	0	18.5	16.85	16.73	16.70	0	17.7
		25	25	18.50	18.50	18.50	0	18.5	16.83	16.75	16.70	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	16.88	16.76	16.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.30	17.22	16.96	0	17.7
		1	25	18.50	18.50	18.50	0	18.5	17.29	17.18	16.91	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	17.34	17.14	16.98	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	16.87	16.75	16.70	0	17.7
		25	12	18.50	18.50	18.50	0	18.5	16.89	16.75	16.70	0	17.7
		25	25	18.50	18.50	18.50	0	18.5	16.87	16.77	16.70	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	16.90	16.77	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.58	17.49	17.51	0	17.7
		1	25	18.50	18.50	18.50	0	18.5	17.53	17.49	17.45	0	17.7
		1	49	18.50	18.50	18.50	0	18.5	17.58	17.40	17.50	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	17.28	17.25	17.18	0	17.7
		25	12	18.50	18.50	18.50	0	18.5	17.27	17.24	17.14	0	17.7
		25	25	18.50	18.50	18.50	0	18.5	17.29	17.20	17.10	0	17.7
		50	0	18.50	18.50	18.50	0	18.5	17.27	17.19	17.17	0	17.7

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	18.50	18.50	18.50	0	18.5	16.82	16.73	16.70	0	17.7
		1	12	18.50	18.50	18.50	0	18.5	16.79	16.72	16.70	0	17.7
		1	24	18.50	18.50	18.50	0	18.5	16.86	16.75	16.70	0	17.7
		12	0	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		12	7	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		12	13	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	16.74	16.70	16.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.27	17.01	16.98	0	17.7
		1	12	18.50	18.50	18.50	0	18.5	17.25	17.03	16.98	0	17.7
		1	24	18.50	18.50	18.50	0	18.5	17.31	17.07	17.06	0	17.7
		12	0	18.50	18.50	18.50	0	18.5	16.72	16.70	16.70	0	17.7
		12	7	18.50	18.50	18.47	0	18.5	16.71	16.70	16.70	0	17.7
		12	13	18.50	18.50	18.50	0	18.5	16.71	16.70	16.70	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.65	17.50	17.46	0	17.7
		1	12	18.50	18.50	18.50	0	18.5	17.59	17.37	17.38	0	17.7
		1	24	18.50	18.50	18.50	0	18.5	17.62	17.42	17.48	0	17.7
		12	0	18.50	18.50	18.50	0	18.5	17.05	17.03	16.97	0	17.7
		12	7	18.50	18.50	18.50	0	18.5	17.03	17.00	16.93	0	17.7
		12	13	18.50	18.50	18.50	0	18.5	17.03	16.94	16.99	0	17.7
		25	0	18.50	18.50	18.50	0	18.5	17.09	16.99	16.95	0	17.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		1	8	18.50	18.50	18.50	0	18.5	16.72	16.70	16.70	0	17.7
		1	14	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		8	0	18.50	18.49	18.40	0	18.5	16.70	16.70	16.70	0	17.7
		8	4	18.50	18.49	18.48	0	18.5	16.70	16.70	16.70	0	17.7
		8	7	18.50	18.46	18.48	0	18.5	16.70	16.70	16.70	0	17.7
		15	0	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.03	16.88	16.84	0	17.7
		1	8	18.50	18.50	18.50	0	18.5	17.04	16.95	16.91	0	17.7
		1	14	18.50	18.50	18.50	0	18.5	16.97	16.93	16.86	0	17.7
		8	0	18.50	18.46	18.33	0	18.5	16.70	16.70	16.70	0	17.7
		8	4	18.50	18.47	18.40	0	18.5	16.70	16.70	16.70	0	17.7
		8	7	18.50	18.42	18.41	0	18.5	16.70	16.70	16.70	0	17.7
		15	0	18.50	18.44	18.49	0	18.5	16.70	16.70	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.44	17.43	17.22	0	17.7
		1	8	18.50	18.50	18.50	0	18.5	17.44	17.37	17.35	0	17.7
		1	14	18.50	18.50	18.50	0	18.5	17.50	17.38	17.27	0	17.7
		8	0	18.50	18.40	18.42	0	18.5	17.06	17.02	16.79	0	17.7
		8	4	18.50	18.40	18.41	0	18.5	17.04	17.00	16.82	0	17.7
		8	7	18.50	18.37	18.38	0	18.5	17.05	16.94	16.85	0	17.7
		15	0	18.50	18.40	18.41	0	18.5	17.01	16.94	16.88	0	17.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	18.50	18.50	18.50	0	18.5	16.78	16.70	16.70	0	17.7
		1	3	18.50	18.50	18.50	0	18.5	16.75	16.70	16.70	0	17.7
		1	5	18.50	18.50	18.50	0	18.5	16.78	16.70	16.70	0	17.7
		3	0	18.50	18.50	18.39	0	18.5	16.70	16.70	16.70	0	17.7
		3	1	18.50	18.50	18.39	0	18.5	16.70	16.70	16.70	0	17.7
		3	3	18.50	18.50	18.37	0	18.5	16.70	16.70	16.70	0	17.7
		6	0	18.50	18.50	18.26	0	18.5	16.70	16.70	16.70	0	17.7
	16QAM	1	0	18.50	18.50	18.50	0	18.5	17.08	16.82	16.83	0	17.7
		1	3	18.50	18.50	18.50	0	18.5	17.04	16.80	16.82	0	17.7
		1	5	18.50	18.50	18.50	0	18.5	17.04	16.83	16.87	0	17.7
		3	0	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		3	1	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		3	3	18.50	18.50	18.50	0	18.5	16.70	16.70	16.70	0	17.7
		6	0	18.50	18.50	18.45	0	18.5	16.70	16.70	16.70	0	17.7
	64QAM	1	0	18.50	18.50	18.50	0	18.5	17.60	17.61	17.21	0	17.7
		1	3	18.50	18.50	18.50	0	18.5	17.53	17.62	17.58	0	17.7
		1	5	18.50	18.50	18.50	0	18.5	17.54	17.59	17.59	0	17.7
		3	0	18.50	18.50	18.50	0	18.5	17.19	17.46	17.45	0	17.7
		3	1	18.50	18.50	18.50	0	18.5	17.19	17.48	17.48	0	17.7
		3	3	18.50	18.50	18.50	0	18.5	17.12	17.48	17.47	0	17.7
		6	0	18.50	18.50	18.50	0	18.5	16.97	17.41	17.40	0	17.7

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	25.00	25.00	25.00	0	25	19.57	19.55	19.56	0	19.7
		1	49	25.00	25.00	24.95	0	25	19.66	19.56	19.57	0	19.7
		1	99	25.00	25.00	24.90	0	25	19.58	19.45	19.49	0	19.7
		50	0	24.00	24.00	24.00	1	24	19.54	19.54	19.35	0	19.7
		50	24	24.00	24.00	24.00	1	24	19.60	19.56	19.40	0	19.7
		50	50	24.00	24.00	24.00	1	24	19.52	19.47	19.30	0	19.7
		100	0	24.00	24.00	24.00	1	24	19.55	19.57	19.45	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.57	19.67	19.70	0	19.7
		1	49	24.00	24.00	24.00	1	24	19.41	19.65	19.70	0	19.7
		1	99	24.00	24.00	24.00	1	24	19.62	19.59	19.70	0	19.7
		50	0	23.00	23.00	23.00	2	23	19.16	19.38	19.48	0	19.7
		50	24	23.00	23.00	23.00	2	23	19.16	19.30	19.45	0	19.7
		50	50	23.00	23.00	23.00	2	23	19.25	19.31	19.37	0	19.7
		100	0	23.00	23.00	23.00	2	23	19.24	19.34	19.47	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.39	19.70	19.70	0	19.7
		1	49	23.00	23.00	23.00	2	23	19.20	19.64	19.70	0	19.7
		1	99	23.00	23.00	23.00	2	23	19.46	19.42	19.70	0	19.7
		50	0	22.00	22.00	22.00	3	22	19.14	19.33	19.52	0	19.7
		50	24	22.00	22.00	22.00	3	22	19.13	19.32	19.47	0	19.7
		50	50	22.00	22.00	22.00	3	22	19.26	19.36	19.38	0	19.7
		100	0	22.00	22.00	22.00	3	22	19.22	19.70	19.49	0	19.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	25.00	25.00	25.00	0	25	19.19	19.37	19.41	0	19.7
		1	37	25.00	25.00	25.00	0	25	19.28	19.30	19.40	0	19.7
		1	74	25.00	25.00	24.95	0	25	19.30	19.22	19.31	0	19.7
		36	0	24.00	24.00	24.00	1	24	19.02	19.32	19.44	0	19.7
		36	20	24.00	24.00	24.00	1	24	19.15	19.26	19.40	0	19.7
		36	39	24.00	24.00	24.00	1	24	19.20	19.27	19.40	0	19.7
		75	0	24.00	24.00	24.00	1	24	19.18	19.29	19.41	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.55	19.69	19.70	0	19.7
		1	37	24.00	24.00	24.00	1	24	19.58	19.59	19.70	0	19.7
		1	74	24.00	24.00	24.00	1	24	19.65	19.55	19.70	0	19.7
		36	0	23.00	23.00	23.00	2	23	19.05	19.37	19.45	0	19.7
		36	20	23.00	23.00	23.00	2	23	19.17	19.31	19.42	0	19.7
		36	39	23.00	23.00	23.00	2	23	19.21	19.31	19.43	0	19.7
		75	0	23.00	23.00	23.00	2	23	19.21	19.31	19.44	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.46	19.66	19.70	0	19.7
		1	37	23.00	23.00	23.00	2	23	19.59	19.54	19.68	0	19.7
		1	74	23.00	23.00	23.00	2	23	19.56	19.53	19.67	0	19.7
		36	0	22.00	22.00	22.00	3	22	19.09	19.41	19.47	0	19.7
		36	20	22.00	22.00	22.00	3	22	19.22	19.33	19.46	0	19.7
		36	39	22.00	22.00	22.00	3	22	19.26	19.34	19.47	0	19.7
		75	0	22.00	22.00	22.00	3	22	19.25	19.33	19.43	0	19.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	25.00	25.00	25.00	0	25	19.22	19.46	19.53	0	19.7
		1	25	25.00	25.00	25.00	0	25	19.34	19.38	19.55	0	19.7
		1	49	25.00	25.00	25.00	0	25	19.38	19.40	19.55	0	19.7
		25	0	24.00	24.00	24.00	1	24	19.20	19.33	19.47	0	19.7
		25	12	24.00	24.00	24.00	1	24	19.27	19.33	19.47	0	19.7
		25	25	24.00	24.00	24.00	1	24	19.25	19.34	19.45	0	19.7
		50	0	24.00	24.00	24.00	1	24	19.30	19.36	19.48	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.52	19.70	19.70	0	19.7
		1	25	24.00	24.00	24.00	1	24	19.64	19.70	19.70	0	19.7
		1	49	24.00	24.00	24.00	1	24	19.64	19.70	19.70	0	19.7
		25	0	23.00	23.00	23.00	2	23	19.25	19.36	19.50	0	19.7
		25	12	23.00	23.00	23.00	2	23	19.31	19.36	19.50	0	19.7
		25	25	23.00	23.00	23.00	2	23	19.30	19.38	19.47	0	19.7
		50	0	23.00	23.00	23.00	2	23	19.31	19.37	19.47	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.60	19.70	19.70	0	19.7
		1	25	23.00	23.00	23.00	2	23	19.27	19.41	19.70	0	19.7
		1	49	23.00	23.00	23.00	2	23	19.32	19.40	19.70	0	19.7
		25	0	22.00	22.00	22.00	3	22	19.31	19.43	19.51	0	19.7
		25	12	22.00	22.00	22.00	3	22	19.26	19.37	19.52	0	19.7
		25	25	22.00	22.00	22.00	3	22	19.70	19.70	19.49	0	19.7
		50	0	22.00	22.00	22.00	3	22	19.64	19.70	19.48	0	19.7

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	25.00	25.00	25.00	0	25	19.28	19.29	19.48	0	19.7
		1	12	25.00	25.00	25.00	0	25	19.23	19.26	19.49	0	19.7
		1	24	25.00	25.00	25.00	0	25	19.27	19.33	19.54	0	19.7
		12	0	24.00	24.00	24.00	1	24	19.10	19.16	19.33	0	19.7
		12	7	24.00	24.00	24.00	1	24	19.09	19.16	19.39	0	19.7
		12	13	24.00	24.00	24.00	1	24	19.11	19.18	19.39	0	19.7
		25	0	24.00	24.00	24.00	1	24	19.18	19.20	19.41	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.70	19.65	19.70	0	19.7
		1	12	24.00	24.00	24.00	1	24	19.67	19.67	19.70	0	19.7
		1	24	24.00	24.00	24.00	1	24	19.70	19.67	19.70	0	19.7
		12	0	23.00	23.00	23.00	2	23	19.13	19.13	19.31	0	19.7
		12	7	23.00	23.00	23.00	2	23	19.10	19.16	19.36	0	19.7
		12	13	23.00	23.00	23.00	2	23	19.09	19.17	19.37	0	19.7
		25	0	23.00	23.00	23.00	2	23	19.10	19.19	19.36	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.58	19.58	19.70	0	19.7
		1	12	23.00	23.00	23.00	2	23	19.57	19.57	19.70	0	19.7
		1	24	23.00	23.00	23.00	2	23	19.61	19.61	19.70	0	19.7
		12	0	22.00	22.00	22.00	3	22	19.15	19.15	19.23	0	19.7
		12	7	22.00	22.00	22.00	3	22	19.12	19.12	19.31	0	19.7
		12	13	22.00	22.00	22.00	3	22	19.15	19.15	19.30	0	19.7
		25	0	22.00	22.00	22.00	3	22	19.19	19.19	19.37	0	19.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	25.00	25.00	25.00	0	25	19.14	19.22	19.29	0	19.7
		1	8	25.00	25.00	25.00	0	25	19.19	19.28	19.32	0	19.7
		1	14	25.00	25.00	25.00	0	25	19.18	19.25	19.35	0	19.7
		8	0	24.00	24.00	24.00	1	24	18.95	19.08	19.20	0	19.7
		8	4	24.00	24.00	24.00	1	24	18.94	19.07	19.19	0	19.7
		8	7	24.00	24.00	24.00	1	24	18.94	19.07	19.20	0	19.7
		15	0	24.00	24.00	24.00	1	24	19.12	19.15	19.27	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.52	19.45	19.65	0	19.7
		1	8	24.00	24.00	24.00	1	24	19.50	19.51	19.66	0	19.7
		1	14	24.00	24.00	24.00	1	24	19.47	19.52	19.70	0	19.7
		8	0	23.00	23.00	23.00	2	23	18.97	19.06	19.13	0	19.7
		8	4	23.00	23.00	23.00	2	23	18.97	19.07	19.11	0	19.7
		8	7	23.00	23.00	23.00	2	23	18.99	19.05	19.10	0	19.7
		15	0	23.00	23.00	23.00	2	23	19.01	19.08	19.16	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.35	19.37	19.60	0	19.7
		1	8	23.00	23.00	23.00	2	23	19.41	19.49	19.62	0	19.7
		1	14	23.00	23.00	23.00	2	23	19.37	19.48	19.64	0	19.7
		8	0	22.00	22.00	22.00	3	22	18.98	19.04	19.18	0	19.7
		8	4	22.00	22.00	22.00	3	22	18.97	19.00	19.17	0	19.7
		8	7	22.00	22.00	22.00	3	22	19.02	19.03	19.16	0	19.7
		15	0	22.00	22.00	22.00	3	22	18.97	19.08	19.18	0	19.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	25.00	25.00	25.00	0	25	19.17	19.29	19.38	0	19.7
		1	3	25.00	25.00	25.00	0	25	19.15	19.26	19.34	0	19.7
		1	5	25.00	25.00	25.00	0	25	19.21	19.30	19.36	0	19.7
		3	0	24.00	24.00	24.00	0	25	19.04	19.05	19.18	0	19.7
		3	1	24.00	24.00	24.00	0	25	19.03	19.05	19.16	0	19.7
		3	3	24.00	24.00	24.00	0	25	19.05	19.06	19.13	0	19.7
		6	0	24.00	24.00	24.00	1	24	18.99	19.11	19.04	0	19.7
	16QAM	1	0	24.00	24.00	24.00	1	24	19.39	19.61	19.64	0	19.7
		1	3	24.00	24.00	24.00	1	24	19.34	19.62	19.61	0	19.7
		1	5	24.00	24.00	24.00	1	24	19.42	19.62	19.61	0	19.7
		3	0	23.00	23.00	23.00	1	24	19.13	19.22	19.33	0	19.7
		3	1	23.00	23.00	23.00	1	24	19.05	19.17	19.32	0	19.7
		3	3	23.00	23.00	23.00	1	24	19.12	19.15	19.30	0	19.7
		6	0	23.00	23.00	23.00	2	23	18.98	18.98	19.21	0	19.7
	64QAM	1	0	23.00	23.00	23.00	2	23	19.70	19.48	19.70	0	19.7
		1	3	23.00	23.00	23.00	2	23	19.67	19.53	19.70	0	19.7
		1	5	23.00	23.00	23.00	2	23	19.67	19.53	19.70	0	19.7
		3	0	22.00	22.00	22.00	2	23	19.20	19.16	19.38	0	19.7
		3	1	22.00	22.00	22.00	2	23	19.15	19.17	19.35	0	19.7
		3	3	22.00	22.00	22.00	2	23	19.19	19.19	19.32	0	19.7
		6	0	22.00	22.00	22.00	3	22	19.02	19.12	19.20	0	19.7

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	20.20	20.20	20.20	0	20.2	20.10	20.10	20.10	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.14	20.15	20.40	0	20.5
		1	99	20.20	20.20	20.20	0	20.2	20.14	20.19	20.20	0	20.5
		50	0	20.20	20.20	20.20	0	20.2	20.13	20.11	20.19	0	20.5
		50	24	20.20	20.20	20.20	0	20.2	20.07	20.05	20.13	0	20.5
		50	50	20.20	20.20	20.20	0	20.2	19.97	20.08	20.20	0	20.5
		100	0	20.20	20.20	20.20	0	20.2	20.09	20.10	20.25	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.49	20.50	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.43	20.43	20.50	0	20.5
		1	99	20.20	20.20	20.20	0	20.2	20.44	20.44	20.50	0	20.5
		50	0	20.20	20.20	20.20	0	20.2	20.16	20.15	20.26	0	20.5
		50	24	20.20	20.20	20.20	0	20.2	20.09	20.10	20.17	0	20.5
		50	50	20.20	20.16	20.20	0	20.2	19.99	20.12	20.21	0	20.5
		100	0	20.20	20.20	20.20	0	20.2	20.11	20.13	20.26	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.34	20.34	20.43	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.21	20.30	20.31	0	20.5
		1	99	20.20	20.20	20.20	0	20.2	20.20	20.29	20.33	0	20.5
		50	0	19.51	19.53	19.38	0.2	20	19.29	19.31	19.32	0.5	20
		50	24	19.49	19.42	19.41	0.2	20	19.22	19.31	19.30	0.5	20
		50	50	19.56	19.33	19.43	0.2	20	19.14	19.34	19.33	0.5	20
		100	0	19.52	19.48	19.48	0.2	20	19.24	19.35	19.34	0.5	20

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	20.20	20.20	20.20	0	20.2	20.21	20.27	20.41	0	20.5
		1	37	20.20	20.20	20.20	0	20.2	20.13	20.16	20.26	0	20.5
		1	74	20.20	20.20	20.20	0	20.2	19.99	20.16	20.30	0	20.5
		36	0	20.20	20.20	20.20	0	20.2	20.11	20.12	20.15	0	20.5
		36	20	20.20	20.20	20.20	0	20.2	20.05	20.12	20.17	0	20.5
		36	39	20.20	20.20	20.20	0	20.2	20.03	20.07	20.17	0	20.5
		75	0	20.20	20.20	20.20	0	20.2	20.06	20.07	20.17	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.41	20.50	20.50	0	20.5
		1	37	20.20	20.20	20.20	0	20.2	20.42	20.43	20.50	0	20.5
		1	74	20.20	20.20	20.20	0	20.2	20.28	20.45	20.50	0	20.5
		36	0	20.20	20.20	20.20	0	20.2	20.12	20.12	20.18	0	20.5
		36	20	20.20	20.20	20.20	0	20.2	20.07	20.08	20.15	0	20.5
		36	39	20.20	20.20	20.20	0	20.2	20.06	20.11	20.18	0	20.5
		75	0	20.20	20.20	20.20	0	20.2	20.07	20.10	20.20	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	37	20.20	20.20	20.20	0	20.2	20.47	20.48	20.50	0	20.5
		1	74	20.20	20.20	20.20	0	20.2	20.32	20.48	20.50	0	20.5
		36	0	19.49	19.51	19.47	0.2	20	19.35	19.31	19.39	0.5	20
		36	20	19.51	19.54	19.48	0.2	20	19.31	19.30	19.36	0.5	20
		36	39	19.33	19.36	19.43	0.2	20	19.29	19.33	19.37	0.5	20
		75	0	19.43	19.47	19.49	0.2	20	19.29	19.31	19.40	0.5	20

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	20.20	20.20	20.20	0	20.2	20.33	20.32	20.41	0	20.5
		1	25	20.20	20.20	20.20	0	20.2	20.34	20.25	20.40	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.31	20.32	20.46	0	20.5
		25	0	20.20	20.20	20.20	0	20.2	20.19	20.12	20.24	0	20.5
		25	12	20.20	20.20	20.20	0	20.2	20.20	20.13	20.25	0	20.5
		25	25	20.20	20.20	20.20	0	20.2	20.19	20.17	20.28	0	20.5
		50	0	20.20	20.20	20.20	0	20.2	20.22	20.15	20.26	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	25	20.20	20.20	20.20	0	20.2	20.50	20.49	20.50	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		25	0	20.20	20.20	20.20	0	20.2	20.23	20.17	20.25	0	20.5
		25	12	20.20	20.20	20.20	0	20.2	20.25	20.18	20.22	0	20.5
		25	25	20.20	20.20	20.20	0	20.2	20.23	20.20	20.26	0	20.5
		50	0	20.20	20.20	20.20	0	20.2	20.20	20.17	20.27	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	25	20.20	20.20	20.20	0	20.2	20.50	20.43	20.47	0	20.5
		1	49	20.20	20.20	20.20	0	20.2	20.44	20.50	20.50	0	20.5
		25	0	19.55	19.57	19.47	0.2	20	19.35	19.32	19.40	0.5	20
		25	12	19.48	19.50	19.41	0.2	20	19.36	19.33	19.39	0.5	20
		25	25	19.40	19.40	19.38	0.2	20	19.36	19.37	19.40	0.5	20
		50	0	19.43	19.43	19.41	0.2	20	19.36	19.32	19.40	0.5	20

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	20.20	20.20	20.20	0	20.2	20.24	20.14	20.32	0	20.5
		1	12	20.20	20.20	20.20	0	20.2	20.21	20.14	20.28	0	20.5
		1	24	20.20	20.20	20.20	0	20.2	20.30	20.22	20.39	0	20.5
		12	0	20.20	20.20	20.20	0	20.2	20.12	20.03	20.19	0	20.5
		12	7	20.20	20.20	20.20	0	20.2	20.13	20.04	20.19	0	20.5
		12	13	20.20	20.20	20.20	0	20.2	20.15	20.07	20.22	0	20.5
		25	0	20.20	20.20	20.20	0	20.2	20.17	20.10	20.25	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	12	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	24	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		12	0	20.17	20.20	20.11	0	20.2	20.08	20.05	20.06	0	20.5
		12	7	20.20	20.20	20.11	0	20.2	20.10	20.03	20.06	0	20.5
		12	13	20.20	20.16	20.12	0	20.2	20.12	20.05	20.10	0	20.5
		25	0	20.20	20.20	20.20	0	20.2	20.10	20.10	20.19	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.47	20.47	20.50	0	20.5
		1	12	20.20	20.20	20.20	0	20.2	20.46	20.46	20.50	0	20.5
		1	24	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		12	0	19.33	19.39	19.24	0.2	20	19.18	19.15	19.21	0.5	20
		12	7	19.33	19.38	19.21	0.2	20	19.19	19.16	19.25	0.5	20
		12	13	19.28	19.33	19.22	0.2	20	19.21	19.17	19.29	0.5	20
		25	0	19.33	19.32	19.22	0.2	20	19.19	19.13	19.25	0.5	20

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	20.20	20.20	20.20	0	20.2	20.20	20.18	20.29	0	20.5
		1	8	20.20	20.20	20.20	0	20.2	20.18	20.22	20.35	0	20.5
		1	14	20.20	20.20	20.20	0	20.2	20.14	20.18	20.31	0	20.5
		8	0	20.20	20.20	20.20	0	20.2	20.00	19.96	20.11	0	20.5
		8	4	20.20	20.20	20.20	0	20.2	19.99	19.96	20.11	0	20.5
		8	7	20.20	20.20	20.20	0	20.2	20.01	19.97	20.14	0	20.5
		15	0	20.20	20.20	20.20	0	20.2	20.08	20.02	20.23	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.37	20.28	20.45	0	20.5
		1	8	20.20	20.20	20.20	0	20.2	20.42	20.39	20.50	0	20.5
		1	14	20.20	20.20	20.20	0	20.2	20.39	20.32	20.50	0	20.5
		8	0	20.10	20.17	20.06	0	20.2	19.95	19.93	20.05	0	20.5
		8	4	20.11	20.17	20.05	0	20.2	19.96	19.94	20.06	0	20.5
		8	7	20.10	20.14	20.04	0	20.2	19.97	19.93	20.08	0	20.5
		15	0	20.14	20.13	20.14	0	20.2	19.99	19.93	20.14	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.32	20.36	20.42	0	20.5
		1	8	20.20	20.20	20.20	0	20.2	20.32	20.39	20.44	0	20.5
		1	14	20.20	20.20	20.20	0	20.2	20.24	20.18	20.36	0	20.5
		8	0	19.16	19.21	19.13	0.2	20	19.00	19.00	19.08	0.5	20
		8	4	19.14	19.19	19.11	0.2	20	19.00	19.01	19.07	0.5	20
		8	7	19.14	19.14	19.12	0.2	20	19.01	19.00	19.10	0.5	20
		15	0	19.18	19.18	19.19	0.2	20	19.04	19.00	19.17	0.5	20

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	20.20	20.20	20.20	0	20.2	20.45	20.44	20.33	0	20.5
		1	3	20.20	20.20	20.20	0	20.2	20.47	20.45	20.33	0	20.5
		1	5	20.20	20.20	20.20	0	20.2	20.41	20.38	20.31	0	20.5
		3	0	20.20	20.20	20.20	0	20.2	20.37	20.35	20.06	0	20.5
		3	1	20.20	20.20	20.20	0	20.2	20.38	20.35	20.06	0	20.5
		3	3	20.20	20.20	20.20	0	20.2	20.38	20.35	20.06	0	20.5
		6	0	20.20	20.20	20.20	0	20.2	20.39	20.36	19.93	0	20.5
	16QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.49	0	20.5
		1	3	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	5	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		3	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.25	0	20.5
		3	1	20.20	20.20	20.20	0	20.2	20.50	20.50	20.28	0	20.5
		3	3	20.20	20.20	20.20	0	20.2	20.50	20.50	20.26	0	20.5
		6	0	20.20	20.19	20.19	0	20.2	20.45	20.49	20.14	0	20.5
	64QAM	1	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.34	0	20.5
		1	3	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		1	5	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		3	0	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		3	1	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		3	3	20.20	20.20	20.20	0	20.2	20.50	20.50	20.50	0	20.5
		6	0	19.21	19.23	19.14	0.2	20	20.00	20.00	20.00	0.5	20

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	24.88	24.89	24.72	0	25.5	24.88	24.89	24.72	0	25.5
		1	25	24.95	24.90	24.80	0	25.5	24.95	24.90	24.80	0	25.5
		1	49	24.93	24.77	24.78	0	25.5	24.93	24.77	24.78	0	25.5
		25	0	23.70	23.90	23.75	1	24.5	23.70	23.90	23.75	1	24.5
		25	12	23.85	23.91	23.80	1	24.5	23.85	23.91	23.80	1	24.5
		25	25	23.83	23.82	23.78	1	24.5	23.83	23.82	23.78	1	24.5
		50	0	23.79	23.80	23.73	1	24.5	23.79	23.80	23.73	1	24.5
	16QAM	1	0	24.19	24.34	24.14	1	24.5	24.19	24.34	24.14	1	24.5
		1	25	24.01	24.28	24.00	1	24.5	24.01	24.28	24.00	1	24.5
		1	49	24.23	24.22	24.23	1	24.5	24.23	24.22	24.23	1	24.5
		25	0	22.81	23.00	22.82	2	23.5	22.81	23.00	22.82	2	23.5
		25	12	22.83	22.92	22.75	2	23.5	22.83	22.92	22.75	2	23.5
		25	25	22.96	22.91	22.85	2	23.5	22.96	22.91	22.85	2	23.5
		50	0	22.93	22.93	22.82	2	23.5	22.93	22.93	22.82	2	23.5
	64QAM	1	0	23.29	23.26	23.13	2	23.5	23.29	23.26	23.13	2	23.5
		1	25	23.17	23.22	23.04	2	23.5	23.17	23.22	23.04	2	23.5
		1	49	23.35	23.14	23.21	2	23.5	23.35	23.14	23.21	2	23.5
		25	0	21.93	22.14	21.92	3	22.5	21.93	22.14	21.92	3	22.5
		25	12	21.91	22.04	21.82	3	22.5	21.91	22.04	21.82	3	22.5
		25	25	22.05	22.02	21.94	3	22.5	22.05	22.02	21.94	3	22.5
		50	0	22.02	22.05	21.91	3	22.5	22.02	22.05	21.91	3.0	22.5

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	24.92	24.85	24.72	0	25.5	24.92	24.85	24.72	0	25.5
		1	12	24.69	24.75	24.73	0	25.5	24.69	24.75	24.73	0	25.5
		1	24	24.75	24.78	24.76	0	25.5	24.75	24.78	24.76	0	25.5
		12	0	23.73	23.77	23.70	1	24.5	23.73	23.77	23.70	1	24.5
		12	7	23.63	23.70	23.68	1	24.5	23.63	23.70	23.68	1	24.5
		12	13	23.61	23.70	23.72	1	24.5	23.61	23.70	23.72	1	24.5
		25	0	23.70	23.73	23.74	1	24.5	23.70	23.73	23.74	1	24.5
	16QAM	1	0	24.30	24.28	24.17	1	24.5	24.30	24.28	24.17	1	24.5
		1	12	24.06	24.20	24.20	1	24.5	24.06	24.20	24.20	1	24.5
		1	24	24.12	24.23	24.25	1	24.5	24.12	24.23	24.25	1	24.5
		12	0	22.73	22.76	22.74	2	23.5	22.73	22.76	22.74	2	23.5
		12	7	22.67	22.73	22.70	2	23.5	22.67	22.73	22.70	2	23.5
		12	13	22.65	22.74	22.75	2	23.5	22.65	22.74	22.75	2	23.5
		25	0	22.66	22.79	22.72	2	23.5	22.66	22.79	22.72	2	23.5
	64QAM	1	0	23.48	23.33	23.20	2	23.5	23.48	23.33	23.20	2	23.5
		1	12	23.22	23.20	23.15	2	23.5	23.22	23.20	23.15	2	23.5
		1	24	23.22	23.24	23.19	2	23.5	23.22	23.24	23.19	2	23.5
		12	0	21.75	21.92	21.86	3	22.5	21.75	21.92	21.86	3	22.5
		12	7	21.69	21.80	21.82	3	22.5	21.69	21.80	21.82	3	22.5
		12	13	21.67	21.82	21.86	3	22.5	21.67	21.82	21.86	3	22.5
		25	0	21.78	21.88	21.83	3	22.5	21.78	21.88	21.83	3	22.5

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	24.91	24.84	24.79	0	25.5	24.91	24.84	24.79	0	25.5
		1	8	24.79	24.82	24.85	0	25.5	24.79	24.82	24.85	0	25.5
		1	14	24.64	24.78	24.77	0	25.5	24.64	24.78	24.77	0	25.5
		8	0	23.69	23.80	23.65	1	24.5	23.69	23.80	23.65	1	24.5
		8	4	23.61	23.73	23.70	1	24.5	23.61	23.73	23.70	1	24.5
		8	7	23.61	23.74	23.70	1	24.5	23.61	23.74	23.70	1	24.5
		15	0	23.77	23.80	23.82	1	24.5	23.77	23.80	23.82	1	24.5
	16QAM	1	0	24.19	24.22	24.02	1	24.5	24.19	24.22	24.02	1	24.5
		1	8	24.12	24.18	24.14	1	24.5	24.12	24.18	24.14	1	24.5
		1	14	24.02	24.14	24.06	1	24.5	24.02	24.14	24.06	1	24.5
		8	0	22.73	22.77	22.70	2	23.5	22.73	22.77	22.70	2	23.5
		8	4	22.68	22.68	22.73	2	23.5	22.68	22.68	22.73	2	23.5
		8	7	22.70	22.68	22.71	2	23.5	22.70	22.68	22.71	2	23.5
		15	0	22.72	22.72	22.78	2	23.5	22.72	22.72	22.78	2	23.5
	64QAM	1	0	23.31	23.08	23.04	2	23.5	23.31	23.08	23.04	2	23.5
		1	8	23.15	23.13	23.14	2	23.5	23.15	23.13	23.14	2	23.5
		1	14	22.99	23.13	23.06	2	23.5	22.99	23.13	23.06	2	23.5
		8	0	21.84	21.83	21.74	3	22.5	21.84	21.83	21.74	3	22.5
		8	4	21.75	21.76	21.78	3	22.5	21.75	21.76	21.78	3	22.5
		8	7	21.76	21.76	21.78	3	22.5	21.76	21.76	21.78	3	22.5
		15	0	21.78	21.81	21.78	3	22.5	21.78	21.81	21.78	3	22.5

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	25.01	24.93	24.94	0	25.5	25.01	24.93	24.94	0	25.5
		1	3	24.85	24.92	24.91	0	25.5	24.85	24.92	24.91	0	25.5
		1	5	24.88	24.94	24.91	0	25.5	24.88	24.94	24.91	0	25.5
		3	0	24.64	24.69	24.75	0	25.5	24.64	24.69	24.75	0	25.5
		3	1	24.65	24.69	24.73	0	25.5	24.65	24.69	24.73	0	25.5
		3	3	24.64	24.68	24.72	0	25.5	24.64	24.68	24.72	0	25.5
		6	0	23.59	23.75	23.70	1	24.5	23.59	23.75	23.70	1	24.5
	16QAM	1	0	24.21	24.22	24.12	1	24.5	24.21	24.22	24.12	1	24.5
		1	3	24.18	24.22	24.08	1	24.5	24.18	24.22	24.08	1	24.5
		1	5	24.19	24.21	24.09	1	24.5	24.19	24.21	24.09	1	24.5
		3	0	23.83	23.81	23.78	1	24.5	23.83	23.81	23.78	1	24.5
		3	1	23.81	23.82	23.81	1	24.5	23.81	23.82	23.81	1	24.5
		3	3	23.80	23.83	23.76	1	24.5	23.80	23.83	23.76	1	24.5
		6	0	22.80	22.69	22.68	2	23.5	22.80	22.69	22.68	2	23.5
	64QAM	1	0	23.18	23.19	23.43	2	23.5	23.18	23.19	23.43	2	23.5
		1	3	23.13	23.11	23.40	2	23.5	23.13	23.11	23.40	2	23.5
		1	5	23.12	23.16	23.36	2	23.5	23.12	23.16	23.36	2	23.5
		3	0	22.93	22.84	22.90	2	23.5	22.93	22.84	22.90	2	23.5
		3	1	22.90	22.83	22.87	2	23.5	22.90	22.83	22.87	2	23.5
		3	3	22.89	22.80	22.85	2	23.5	22.89	22.80	22.85	2	23.5
		6	0	21.82	21.80	21.75	3	22.5	21.82	21.80	21.75	3	22.5

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	23.78	23.73	23.65	0	24.5	23.78	23.73	23.65	0	24.5
		1	25	23.80	23.74	23.70	0	24.5	23.80	23.74	23.70	0	24.5
		1	49	23.71	23.69	23.64	0	24.5	23.71	23.69	23.64	0	24.5
		25	0	22.62	22.68	22.52	1	23.5	22.62	22.68	22.52	1	23.5
		25	12	22.64	22.70	22.60	1	23.5	22.64	22.70	22.60	1	23.5
		25	25	22.63	22.69	22.57	1	23.5	22.63	22.69	22.57	1	23.5
		50	0	22.68	22.71	22.55	1	23.5	22.68	22.71	22.55	1	23.5
	16QAM	1	0	23.22	23.07	23.04	1	23.5	23.22	23.07	23.04	1	23.5
		1	25	23.01	23.05	22.91	1	23.5	23.01	23.05	22.91	1	23.5
		1	49	23.16	23.01	23.07	1	23.5	23.16	23.01	23.07	1	23.5
		25	0	21.77	21.83	21.62	2	22.5	21.77	21.83	21.62	2	22.5
		25	12	21.72	21.85	21.60	2	22.5	21.72	21.85	21.60	2	22.5
		25	25	21.77	21.85	21.70	2	22.5	21.77	21.85	21.70	2	22.5
		50	0	21.80	21.87	21.66	2	22.5	21.80	21.87	21.66	2	22.5
	64QAM	1	0	22.33	22.06	22.02	2	22.5	22.33	22.06	22.02	2	22.5
		1	25	22.17	22.14	21.94	2	22.5	22.17	22.14	21.94	2	22.5
		1	49	22.11	22.16	22.19	2	22.5	22.11	22.16	22.19	2	22.5
		25	0	21.03	21.01	20.74	3	21.5	21.03	21.01	20.74	3	21.5
		25	12	21.00	21.08	20.76	3	21.5	21.00	21.08	20.76	3	21.5
		25	25	20.97	21.09	20.87	3	21.5	20.97	21.09	20.87	3	21.5
		50	0	21.01	21.10	20.79	3	21.5	21.01	21.10	20.79	3	21.5

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	23.76	23.70	23.56	0	24.5	23.76	23.70	23.56	0	24.5
		1	12	23.56	23.71	23.58	0	24.5	23.56	23.71	23.58	0	24.5
		1	24	23.56	23.68	23.60	0	24.5	23.56	23.68	23.60	0	24.5
		12	0	22.64	22.60	22.54	1	23.5	22.64	22.60	22.54	1	23.5
		12	7	22.55	22.65	22.50	1	23.5	22.55	22.65	22.50	1	23.5
		12	13	22.54	22.65	22.54	1	23.5	22.54	22.65	22.54	1	23.5
		25	0	22.63	22.71	22.58	1	23.5	22.63	22.71	22.58	1	23.5
	16QAM	1	0	23.28	23.09	23.00	1	23.5	23.28	23.09	23.00	1	23.5
		1	12	23.16	23.09	23.05	1	23.5	23.16	23.09	23.05	1	23.5
		1	24	23.13	23.12	23.07	1	23.5	23.13	23.12	23.07	1	23.5
		12	0	21.74	21.64	21.56	2	22.5	21.74	21.64	21.56	2	22.5
		12	7	21.64	21.69	21.53	2	22.5	21.64	21.69	21.53	2	22.5
		12	13	21.61	21.71	21.56	2	22.5	21.61	21.71	21.56	2	22.5
		25	0	21.62	21.70	21.63	2	22.5	21.62	21.70	21.63	2	22.5
	64QAM	1	0	22.29	22.05	22.04	2	22.5	22.29	22.05	22.04	2	22.5
		1	12	22.17	22.09	22.15	2	22.5	22.17	22.09	22.15	2	22.5
		1	24	22.17	22.18	22.18	2	22.5	22.17	22.18	22.18	2	22.5
		12	0	20.88	20.84	20.67	3	21.5	20.88	20.84	20.67	3	21.5
		12	7	20.76	20.89	20.65	3	21.5	20.76	20.89	20.65	3	21.5
		12	13	20.79	20.89	20.74	3	21.5	20.79	20.89	20.74	3	21.5
		25	0	20.86	20.90	20.78	3	21.5	20.86	20.90	20.78	3	21.5

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	23.70	23.65	23.61	0	24.5	23.70	23.65	23.61	0	24.5
		1	8	23.69	23.73	23.70	0	24.5	23.69	23.73	23.70	0	24.5
		1	14	23.54	23.68	23.58	0	24.5	23.54	23.68	23.58	0	24.5
		8	0	22.60	22.51	22.50	1	23.5	22.60	22.51	22.50	1	23.5
		8	4	22.59	22.61	22.50	1	23.5	22.59	22.61	22.50	1	23.5
		8	7	22.60	22.62	22.50	1	23.5	22.60	22.62	22.50	1	23.5
		15	0	22.67	22.63	22.61	1	23.5	22.67	22.63	22.61	1	23.5
	16QAM	1	0	23.06	22.92	22.95	1	23.5	23.06	22.92	22.95	1	23.5
		1	8	23.08	23.02	23.03	1	23.5	23.08	23.02	23.03	1	23.5
		1	14	22.97	23.00	22.89	1	23.5	22.97	23.00	22.89	1	23.5
		8	0	21.56	21.60	21.53	2	22.5	21.56	21.60	21.53	2	22.5
		8	4	21.57	21.65	21.54	2	22.5	21.57	21.65	21.54	2	22.5
		8	7	21.56	21.67	21.54	2	22.5	21.56	21.67	21.54	2	22.5
		15	0	21.61	21.71	21.60	2	22.5	21.61	21.71	21.60	2	22.5
	64QAM	1	0	22.11	21.97	21.85	2	22.5	22.11	21.97	21.85	2	22.5
		1	8	22.17	22.02	22.14	2	22.5	22.17	22.02	22.14	2	22.5
		1	14	22.09	22.01	21.94	2	22.5	22.09	22.01	21.94	2	22.5
		8	0	20.83	20.66	20.68	3	21.5	20.83	20.66	20.68	3	21.5
		8	4	20.84	20.75	20.73	3	21.5	20.84	20.75	20.73	3	21.5
		8	7	20.85	20.73	20.75	3	21.5	20.85	20.73	20.75	3	21.5
		15	0	20.88	20.79	20.74	3	21.5	20.88	20.79	20.74	3	21.5

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	23.86	23.83	23.91	0	24.5	23.86	23.83	23.91	0	24.5
		1	3	23.82	23.81	23.78	0	24.5	23.82	23.81	23.78	0	24.5
		1	5	23.77	23.84	23.80	0	24.5	23.77	23.84	23.80	0	24.5
		3	0	23.61	23.59	23.66	0	24.5	23.61	23.59	23.66	0	24.5
		3	1	23.58	23.59	23.63	0	24.5	23.58	23.59	23.63	0	24.5
		3	3	23.53	23.58	23.52	0	24.5	23.53	23.58	23.52	0	24.5
		6	0	22.50	22.63	22.53	1	23.5	22.50	22.63	22.53	1	23.5
	16QAM	1	0	23.11	23.15	22.96	1	23.5	23.11	23.15	22.96	1	23.5
		1	3	23.08	23.11	22.93	1	23.5	23.08	23.11	22.93	1	23.5
		1	5	23.04	23.14	22.91	1	23.5	23.04	23.14	22.91	1	23.5
		3	0	22.80	22.74	22.65	1	23.5	22.80	22.74	22.65	1	23.5
		3	1	22.82	22.73	22.60	1	23.5	22.82	22.73	22.60	1	23.5
		3	3	22.72	22.71	22.54	1	23.5	22.72	22.71	22.54	1	23.5
		6	0	21.68	21.60	21.50	2	22.5	21.68	21.60	21.50	2	22.5
	64QAM	1	0	22.20	22.20	22.08	2	22.5	22.20	22.20	22.08	2	22.5
		1	3	22.17	22.29	22.11	2	22.5	22.17	22.29	22.11	2	22.5
		1	5	22.18	22.24	22.02	2	22.5	22.18	22.24	22.02	2	22.5
		3	0	21.85	21.83	21.73	2	22.5	21.85	21.83	21.73	2	22.5
		3	1	21.83	21.82	21.75	2	22.5	21.83	21.82	21.75	2	22.5
		3	3	21.77	21.81	21.73	2	22.5	21.77	21.81	21.73	2	22.5
		6	0	20.83	20.80	20.74	3	21.5	20.83	20.80	20.74	3	21.5

LTE Band 30 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	23.50	0	23.5	20.80	0	21.7
		1	25	23.50	0	23.5	20.90	0	21.7
		1	49	23.50	0	23.5	20.80	0	21.7
		25	0	23.40	0	23.5	20.80	0	21.7
		25	12	23.50	0	23.5	20.80	0	21.7
		25	25	23.50	0	23.5	20.70	0	21.7
		50	0	23.50	0	23.5	20.80	0	21.7
	16QAM	1	0	23.40	0	23.5	20.70	0	21.7
		1	25	23.40	0	23.5	20.80	0	21.7
		1	49	23.50	0	23.5	20.90	0	21.7
		25	0	23.10	0	23.5	20.97	0	21.7
		25	12	23.00	0	23.5	20.97	0	21.7
		25	25	23.10	0	23.5	21.05	0	21.7
		50	0	23.00	0	23.5	20.98	0	21.7
	64QAM	1	0	23.04	0	23.5	20.90	0	21.7
		1	25	23.01	0	23.5	20.90	0	21.7
		1	49	23.00	0	23.5	20.80	0	21.7
		25	0	21.93	1	22.5	21.11	0	21.7
		25	12	21.91	1	22.5	21.10	0	21.7
		25	25	21.91	1	22.5	21.09	0	21.7
		50	0	21.92	1	22.5	21.11	0	21.7

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	23.50	0	23.5	21.03	0	21.7
		1	12	23.50	0	23.5	21.02	0	21.7
		1	24	23.50	0	23.5	21.10	0	21.7
		12	0	23.50	0	23.5	20.87	0	21.7
		12	7	23.50	0	23.5	20.89	0	21.7
		12	13	23.50	0	23.5	20.88	0	21.7
		25	0	23.50	0	23.5	20.93	0	21.7
	16QAM	1	0	23.40	0	23.5	20.90	0	21.7
		1	12	23.40	0	23.5	21.00	0	21.7
		1	24	23.50	0	23.5	21.00	0	21.7
		12	0	23.00	0	23.5	20.89	0	21.7
		12	7	23.10	0	23.5	20.88	0	21.7
		12	13	23.10	0	23.5	20.87	0	21.7
		25	0	23.20	0	23.5	20.88	0	21.7
	64QAM	1	0	23.00	0	23.5	20.90	0	21.7
		1	12	23.02	0	23.5	20.90	0	21.7
		1	24	22.99	0	23.5	20.90	0	21.7
		12	0	21.73	1	22.5	21.00	0	21.7
		12	7	21.74	1	22.5	20.98	0	21.7
		12	13	21.72	1	22.5	20.98	0	21.7
		25	0	21.76	1	22.5	20.95	0	21.7

LTE Band 30 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	20.50	0	20.5	20.50	0	20.5
		1	25	20.50	0	20.5	20.50	0	20.5
		1	49	20.50	0	20.5	20.50	0	20.5
		25	0	20.50	0	20.5	20.50	0	20.5
		25	12	20.50	0	20.5	20.50	0	20.5
		25	25	20.50	0	20.5	20.50	0	20.5
		50	0	20.50	0	20.5	20.50	0	20.5
	16QAM	1	0	20.50	0	20.5	20.50	0	20.5
		1	25	20.50	0	20.5	20.50	0	20.5
		1	49	20.50	0	20.5	20.50	0	20.5
		25	0	20.50	0	20.5	20.50	0	20.5
		25	12	20.50	0	20.5	20.50	0	20.5
		25	25	20.50	0	20.5	20.50	0	20.5
		50	0	20.50	0	20.5	20.50	0	20.5
	64QAM	1	0	20.50	0	20.5	20.50	0	20.5
		1	25	20.50	0	20.5	20.50	0	20.5
		1	49	20.50	0	20.5	20.50	0	20.5
		25	0	20.25	0.3	20.3	20.25	0.3	20.3
		25	12	20.25	0.3	20.3	20.25	0.3	20.3
		25	25	20.25	0.3	20.3	20.25	0.3	20.3
		50	0	20.25	0.3	20.3	20.25	0.3	20.3

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	20.50	0	20.5	20.50	0	20.5
		1	12	20.50	0	20.5	20.50	0	20.5
		1	24	20.50	0	20.5	20.50	0	20.5
		12	0	20.50	0	20.5	20.50	0	20.5
		12	7	20.50	0	20.5	20.50	0	20.5
		12	13	20.50	0	20.5	20.50	0	20.5
		25	0	20.50	0	20.5	20.50	0	20.5
	16QAM	1	0	20.50	0	20.5	20.50	0	20.5
		1	12	20.50	0	20.5	20.50	0	20.5
		1	24	20.50	0	20.5	20.50	0	20.5
		12	0	20.50	0	20.5	20.50	0	20.5
		12	7	20.50	0	20.5	20.50	0	20.5
		12	13	20.50	0	20.5	20.50	0	20.5
		25	0	20.50	0	20.5	20.50	0	20.5
	64QAM	1	0	20.50	0	20.5	20.50	0	20.5
		1	12	20.50	0	20.5	20.50	0	20.5
		1	24	20.50	0	20.5	20.50	0	20.5
		12	0	20.25	0.3	20.3	20.25	0.3	20.3
		12	7	20.25	0.3	20.3	20.25	0.3	20.3
		12	13	20.25	0.3	20.3	20.25	0.3	20.3
		25	0	20.25	0.3	20.3	20.25	0.3	20.3

LTE Band 30 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 / 2310 MHz	MPR	Tune-up Limit	27710 / 2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	23.50	0	23.5	19.77	0	20
		1	25	23.50	0	23.5	19.86	0	20
		1	49	23.50	0	23.5	19.78	0	20
		25	0	22.81	0	23.5	19.68	0	20
		25	12	22.82	0	23.5	19.74	0	20
		25	25	22.61	0	23.5	19.73	0	20
		50	0	22.74	0	23.5	19.78	0	20
	16QAM	1	0	23.31	0	23.5	20.00	0	20
		1	25	23.09	0	23.5	20.00	0	20
		1	49	23.05	0	23.5	20.00	0	20
		25	0	21.96	1	22.5	19.64	0	20
		25	12	21.90	1	22.5	19.71	0	20
		25	25	21.81	1	22.5	19.70	0	20
		50	0	21.95	1	22.5	19.71	0	20
	64QAM	1	0	22.27	1	22.5	20.00	0	20
		1	25	22.00	1	22.5	20.00	0	20
		1	49	21.85	1	22.5	20.00	0	20
		25	0	21.03	2	21.5	19.59	0	20
		25	12	20.90	2	21.5	19.65	0	20
		25	25	20.87	2	21.5	19.66	0	20
		50	0	20.89	2	21.5	19.72	0	20

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 / 2310 MHz	MPR	Tune-up Limit	27710 / 2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	23.50	0	23.5	19.86	0	20
		1	12	23.50	0	23.5	19.91	0	20
		1	24	23.50	0	23.5	19.74	0	20
		12	0	22.81	0	23.5	19.94	0	20
		12	7	22.74	0	23.5	19.81	0	20
		12	13	22.74	0	23.5	19.78	0	20
		25	0	22.80	0	23.5	19.84	0	20
	16QAM	1	0	23.35	0	23.5	20.00	0	20
		1	12	23.26	0	23.5	20.00	0	20
		1	24	23.14	0	23.5	20.00	0	20
		12	0	21.93	1	22.5	20.00	0	20
		12	7	21.83	1	22.5	19.88	0	20
		12	13	21.83	1	22.5	19.85	0	20
		25	0	21.90	1	22.5	19.88	0	20
	64QAM	1	0	22.13	1	22.5	20.00	0	20
		1	12	21.96	1	22.5	20.00	0	20
		1	24	21.87	1	22.5	20.00	0	20
		12	0	20.67	2	21.5	20.00	0	20
		12	7	20.73	2	21.5	19.91	0	20
		12	13	20.71	2	21.5	19.89	0	20
		25	0	20.72	2	21.5	19.91	0	20

LTE Band 30 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	17.62	0	18.2	19.50	0	19.5
		1	25	17.70	0	18.2	19.50	0	19.5
		1	49	17.49	0	18.2	19.50	0	19.5
		25	0	17.32	0	18.2	19.15	0	19.5
		25	12	17.80	0	18.2	19.20	0	19.5
		25	25	17.37	0	18.2	19.10	0	19.5
		50	0	17.80	0	18.2	19.30	0	19.5
	16QAM	1	0	17.94	0	18.2	19.50	0	19.5
		1	25	17.65	0	18.2	19.50	0	19.5
		1	49	17.78	0	18.2	19.50	0	19.5
		25	0	17.33	0	18.2	19.47	0	19.5
		25	12	17.26	0	18.2	19.41	0	19.5
		25	25	17.36	0	18.2	19.50	0	19.5
		50	0	17.26	0	18.2	19.40	0	19.5
	64QAM	1	0	17.76	0	18.2	19.50	0	19.5
		1	25	17.47	0	18.2	19.50	0	19.5
		1	49	17.65	0	18.2	19.50	0	19.5
		25	0	17.32	0	18.2	19.01	0	19.5
		25	12	17.25	0	18.2	18.94	0	19.5
		25	25	17.34	0	18.2	19.03	0	19.5
		50	0	17.24	0	18.2	18.95	0	19.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				27710 2310 MHz	MPR	Tune-up Limit	27710 2310 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	17.34	0	18.2	19.50	0	19.5
		1	12	17.20	0	18.2	19.43	0	19.5
		1	24	17.22	0	18.2	19.47	0	19.5
		12	0	17.50	0	18.2	19.29	0	19.5
		12	7	17.50	0	18.2	19.25	0	19.5
		12	13	17.21	0	18.2	19.36	0	19.5
		25	0	17.30	0	18.2	19.30	0	19.5
	16QAM	1	0	17.72	0	18.2	19.50	0	19.5
		1	12	17.62	0	18.2	19.50	0	19.5
		1	24	17.74	0	18.2	19.50	0	19.5
		12	0	17.30	0	18.2	19.23	0	19.5
		12	7	17.30	0	18.2	19.23	0	19.5
		12	13	17.30	0	18.2	19.35	0	19.5
		25	0	17.30	0	18.2	19.25	0	19.5
	64QAM	1	0	17.65	0	18.2	19.50	0	19.5
		1	12	17.58	0	18.2	19.50	0	19.5
		1	24	17.66	0	18.2	19.50	0	19.5
		12	0	17.30	0	18.2	18.77	0	19.5
		12	7	17.30	0	18.2	18.72	0	19.5
		12	13	17.30	0	18.2	18.83	0	19.5
		25	0	17.30	0	18.2	18.80	0	19.5

LTE Band 41 Power Class 3 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.84	24.69	24.56	24.69	24.86	0	25.5	24.00	24.00	23.84	23.91	24.00	0	24
		1	49	24.85	24.85	24.90	24.70	24.89	0	25.5	24.00	24.00	23.90	24.00	24.00	0	24
		1	99	24.78	24.70	24.58	24.56	24.83	0	25.5	24.00	23.90	23.86	23.96	24.00	0	24
		50	0	23.76	23.59	23.51	23.59	23.80	1	24.5	23.82	23.60	23.48	23.52	23.71	0	24
		50	24	23.77	23.67	23.52	23.60	23.81	1	24.5	23.83	23.62	23.60	23.55	23.75	0	24
		50	50	23.74	23.66	23.50	23.50	23.78	1	24.5	23.81	23.52	23.46	23.54	23.69	0	24
		100	0	23.78	23.64	23.52	23.62	23.85	1	24.5	23.87	23.64	23.75	23.59	23.73	0	24
	16QAM	1	0	24.09	23.87	23.73	23.91	24.02	1	24.5	24.00	23.91	23.68	23.72	24.00	0	24
		1	49	24.02	23.88	23.72	23.87	24.00	1	24.5	24.00	23.86	23.62	23.71	24.00	0	24
		1	99	24.00	23.96	23.79	23.83	24.03	1	24.5	24.00	23.84	23.72	23.81	23.97	0	24
		50	0	22.82	22.71	22.69	22.65	22.85	2	23.5	23.50	23.50	23.46	23.50	23.50	0.5	23.5
		50	24	22.82	22.77	22.65	22.65	22.82	2	23.5	23.50	23.50	23.43	23.50	23.50	0.5	23.5
		50	50	22.80	22.76	22.64	22.58	22.81	2	23.5	23.50	23.50	23.42	23.50	23.50	0.5	23.5
		100	0	22.84	22.80	22.70	22.70	22.87	2	23.5	23.50	23.50	23.47	23.50	23.50	0.5	23.5
	64QAM	1	0	23.50	23.25	23.17	23.44	23.50	2	23.5	23.44	23.19	23.28	23.29	23.35	0.5	23.5
		1	49	23.50	23.28	23.03	23.34	23.43	2	23.5	23.37	23.13	23.26	23.19	23.29	0.5	23.5
		1	99	23.48	23.34	23.02	23.30	23.40	2	23.5	23.32	23.14	23.28	23.18	23.29	0.5	23.5
		50	0	22.25	22.05	21.94	22.07	22.28	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		50	24	22.22	22.09	21.89	22.05	22.24	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		50	50	22.19	22.08	21.86	21.96	22.20	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		100	0	22.24	22.13	21.92	22.08	22.28	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
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		
15 MHz	QPSK	1	0	24.79	24.59	24.52	24.61	24.85	0	25.5	24.00	23.96	23.84	23.93	24.00	0	24
		1	37	24.77	24.61	24.50	24.60	24.82	0	25.5	24.00	23.94	23.81	23.94	24.00	0	24
		1	74	24.73	24.57	24.50	24.50	24.78	0	25.5	24.00	23.86	23.77	23.91	24.00	0	24
		36	0	23.74	23.51	23.50	23.56	23.78	1	24.5	23.83	23.58	23.46	23.53	23.69	0	24
		36	20	23.73	23.58	23.50	23.57	23.78	1	24.5	23.79	23.59	23.43	23.60	23.69	0	24
		36	39	23.72	23.57	23.50	23.50	23.76	1	24.5	23.78	23.50	23.42	23.57	23.67	0	24
		75	0	23.75	23.60	23.50	23.59	23.81	1	24.5	23.83	23.61	23.47	23.58	23.71	0	24
	16QAM	1	0	23.88	23.69	23.65	23.69	23.96	1	24.5	23.95	23.68	23.63	23.70	23.84	0	24
		1	37	23.82	23.76	23.60	23.66	23.93	1	24.5	23.93	23.68	23.59	23.80	23.79	0	24
		1	74	23.77	23.70	23.56	23.57	23.89	1	24.5	23.95	23.59	23.62	23.78	23.73	0	24
		36	0	22.78	22.69	22.56	22.64	22.81	2	23.5	23.50	23.50	23.48	23.50	23.50	0.5	23.5
		36	20	22.79	22.77	22.58	22.63	22.81	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
		36	39	22.77	22.76	22.63	22.56	22.79	2	23.5	23.50	23.50	23.46	23.50	23.50	0.5	23.5
		75	0	22.82	22.80	22.66	22.68	22.84	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
	64QAM	1	0	23.45	23.19	23.23	23.19	23.48	2	23.5	23.31	23.13	23.24	23.25	23.23	0.5	23.5
		1	37	23.37	23.24	23.15	23.19	23.44	2	23.5	23.33	23.08	23.25	23.15	23.21	0.5	23.5
		1	74	23.29	23.20	23.05	23.12	23.34	2	23.5	23.25	23.04	23.17	23.11	23.26	0.5	23.5
		36	0	22.23	21.98	21.92	22.03	22.21	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		36	20	22.22	22.04	21.90	22.03	22.20	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		36	39	22.19	22.02	21.86	21.93	22.17	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		75	0	22.22	22.05	21.92	22.03	22.22	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
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		
10 MHz	QPSK	1	0	24.90	24.66	24.63	24.73	24.95	0	25.5	24.00	24.00	23.93	23.97	24.00	0	24
		1	25	24.76	24.67	24.58	24.70	24.91	0	25.5	24.00	24.00	23.89	24.00	24.00	0	24
		1	49	24.76	24.70	24.60	24.60	24.92	0	25.5	24.00	24.00	23.90	24.00	24.00	0	24
		25	0	23.75	23.63	23.55	23.68	23.91	1	24.5	23.91	23.69	23.53	23.64	23.83	0	24
		25	12	23.73	23.67	23.54	23.67	23.90	1	24.5	23.90	23.68	23.51	23.68	23.82	0	24
		25	25	23.73	23.68	23.54	23.60	23.90	1	24.5	23.90	23.61	23.51	23.68	23.82	0	24
		50	0	23.75	23.71	23.56	23.71	23.87	1	24.5	23.94	23.71	23.53	23.71	23.84	0	24
	16QAM	1	0	23.96	23.82	23.69	23.79	24.11	1	24.5	24.00	23.81	23.69	23.84	23.97	0	24
		1	25	23.88	23.83	23.67	23.75	24.07	1	24.5	24.00	23.79	23.62	23.86	23.93	0	24
		1	49	23.90	23.85	23.67	23.72	24.10	1	24.5	24.00	23.78	23.66	23.88	23.94	0	24
		25	0	22.90	22.67	22.63	22.73	22.96	2	23.5	23.28	23.23	23.22	23.16	23.21	0.5	23.5
		25	12	22.87	22.73	22.61	22.72	22.94	2	23.5	23.28	23.19	23.25	23.09	23.22	0.5	23.5
		25	25	22.88	22.73	22.61	22.69	22.94	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
		50	0	22.91	22.75	22.65	22.75	22.98	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
	64QAM	1	0	23.39	23.17	23.22	23.20	23.50	2	23.5	23.28	23.17	23.31	23.22	23.25	0.5	23.5
		1	25	23.35	23.22	23.16	23.10	23.41	2	23.5	23.29	23.11	23.24	23.15	23.24	0.5	23.5
		1	49	23.34	23.23	23.12	23.13	23.45	2	23.5	23.34	23.19	23.24	23.17	23.30	0.5	23.5
		25	0	22.20	22.01	21.89	22.04	22.24	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		25	12	22.18	22.06	21.86	22.03	22.22	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		25	25	22.19	22.05	21.85	21.95	22.22	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		50	0	22.21	22.08	21.90	22.06	22.26	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5

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

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	24.83	24.68	24.64	24.73	24.99	0	25.5	24.00	24.00	23.86	23.90	24.00	0	24
		1	12	24.76	24.72	24.60	24.70	24.91	0	25.5	24.00	23.95	23.83	23.95	24.00	0	24
		1	24	24.79	24.69	24.63	24.65	24.95	0	25.5	24.00	23.94	23.85	23.97	24.00	0	24
		12	0	23.65	23.50	23.50	23.52	23.79	1	24.5	23.77	23.54	23.36	23.47	23.60	0	24
		12	7	23.63	23.53	23.50	23.50	23.78	1	24.5	23.76	23.53	23.35	23.52	23.59	0	24
		12	13	23.64	23.54	23.50	23.50	23.77	1	24.5	23.75	23.46	23.36	23.51	23.60	0	24
		25	0	23.73	23.61	23.50	23.59	23.80	1	24.5	23.84	23.62	23.45	23.58	23.69	0	24
	16QAM	1	0	23.95	23.70	23.80	23.81	23.99	1	24.5	23.80	23.82	23.77	23.67	23.90	0	24
		1	12	23.88	23.72	23.77	23.79	23.94	1	24.5	23.97	23.79	23.71	23.68	23.86	0	24
		1	24	23.91	23.75	23.77	23.72	23.97	1	24.5	23.70	23.76	23.76	23.74	23.85	0	24
		12	0	22.67	22.50	22.50	22.53	22.79	2	23.5	23.28	23.23	23.22	23.16	23.21	0.5	23.5
		12	7	22.66	22.56	22.50	22.52	22.73	2	23.5	23.28	23.19	23.25	23.09	23.22	0.5	23.5
		12	13	22.67	22.55	22.50	22.50	22.73	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
		25	0	22.75	22.59	22.50	22.59	22.77	2	23.5	23.50	23.50	23.50	23.50	23.50	0.5	23.5
	64QAM	1	0	23.33	23.14	23.17	23.11	23.50	2	23.5	23.32	23.50	23.50	23.22	23.20	0.5	23.5
		1	12	23.26	23.22	23.09	23.09	23.40	2	23.5	23.28	23.23	23.22	23.16	23.21	0.5	23.5
		1	24	23.31	23.22	23.13	23.07	23.38	2	23.5	23.28	23.19	23.25	23.09	23.22	0.5	23.5
		12	0	21.99	21.81	21.63	21.76	22.04	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		12	7	21.94	21.86	21.63	21.75	21.98	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		12	13	21.93	21.86	21.61	21.67	21.99	3	22.5	22.50	22.50	22.50	22.50	22.50	1.5	22.5
		25	0	22.01	21.91	21.73	21.83	22.04	3	22.5	22.50	22.50	22.50	22.50	22.03	1.5	22.5

LTE Band 41 Power Class 3 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	21.14	21.02	20.83	20.94	20.95	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	49	21.50	21.50	21.50	21.50	21.40	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	99	21.08	20.86	20.82	20.89	20.86	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		50	0	21.03	20.90	20.75	20.84	20.82	0	21.5	21.91	21.73	21.79	21.76	21.75	0.3	22.3
		50	24	21.50	21.30	21.40	21.40	21.40	0	21.5	22.25	22.25	22.25	22.25	22.25	0.3	22.3
		50	50	20.99	20.80	20.69	20.77	20.78	0	21.5	21.90	21.82	21.77	21.76	21.73	0.3	22.3
		100	0	21.50	21.40	21.40	21.30	21.40	0	21.5	22.25	22.25	22.25	22.25	22.25	0.3	22.3
	16QAM	1	0	21.28	21.19	20.93	21.07	21.22	0	21.5	22.17	22.05	21.96	21.95	22.14	0.3	22.3
		1	49	21.26	21.12	20.92	21.04	21.12	0	21.5	22.11	22.10	21.92	21.89	22.02	0.3	22.3
		1	99	21.26	21.06	20.99	20.99	21.11	0	21.5	22.13	22.21	22.02	21.93	22.07	0.3	22.3
		50	0	21.04	20.90	20.76	20.82	20.82	0.3	21.3	20.95	20.78	20.82	20.75	20.83	1.3	21.3
		50	24	21.03	20.87	20.72	20.79	20.80	0.3	21.3	20.92	20.78	20.82	20.78	20.80	1.3	21.3
		50	50	21.01	20.79	20.69	20.77	20.78	0.3	21.3	20.93	20.87	20.80	20.79	20.81	1.3	21.3
		100	0	21.07	20.92	20.74	20.83	20.83	0.3	21.3	20.98	20.82	20.85	20.78	20.85	1.3	21.3
	64QAM	1	0	21.25	21.24	20.89	21.12	21.25	0.3	21.3	21.25	21.11	20.97	20.98	21.25	1.3	21.3
		1	49	21.25	21.18	20.93	21.04	21.14	0.3	21.3	21.22	21.09	20.91	20.97	21.21	1.3	21.3
		1	99	21.25	21.13	20.95	21.03	21.11	0.3	21.3	21.25	21.23	21.02	21.00	21.20	1.3	21.3
		50	0	20.10	19.97	19.80	19.89	19.87	1.3	20.3	20.01	19.84	19.81	19.80	19.88	2.3	20.3
		50	24	20.08	19.95	19.78	19.86	19.84	1.3	20.3	19.98	19.84	19.79	19.79	19.84	2.3	20.3
		50	50	20.05	19.86	19.75	19.84	19.82	1.3	20.3	19.98	19.92	19.79	19.80	19.83	2.3	20.3
		100	0	20.12	19.97	19.82	19.88	19.87	1.3	20.3	20.03	19.85	19.83	19.82	19.87	2.3	20.3

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		
15 MHz	QPSK	1	0	21.15	20.98	20.80	20.93	20.92	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	37	21.09	20.98	20.81	20.91	20.88	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	74	21.03	20.85	20.75	20.86	20.81	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		36	0	21.02	20.88	20.73	20.85	20.79	0	21.5	21.96	21.78	21.75	21.74	21.78	0.3	22.3
		36	20	21.02	20.89	20.72	20.82	20.79	0	21.5	21.96	21.80	21.76	21.75	21.78	0.3	22.3
		36	39	21.00	20.79	20.70	20.80	20.77	0	21.5	21.95	21.85	21.75	21.74	21.77	0.3	22.3
		75	0	21.04	20.91	20.75	20.83	20.81	0	21.5	21.98	21.83	21.78	21.77	21.81	0.3	22.3
	16QAM	1	0	21.19	20.99	20.91	20.97	20.95	0	21.5	22.17	21.87	21.94	21.89	21.96	0.3	22.3
		1	37	21.20	20.95	20.91	20.97	20.91	0	21.5	22.12	21.93	21.91	21.85	21.93	0.3	22.3
		1	74	21.14	20.89	20.85	20.93	20.85	0	21.5	22.09	21.94	21.90	21.81	21.90	0.3	22.3
		36	0	21.01	20.86	20.72	20.83	20.78	0.3	21.3	20.99	20.82	20.79	20.77	20.79	1.3	21.3
		36	20	21.02	20.87	20.72	20.82	20.78	0.3	21.3	20.99	20.82	20.80	20.77	20.81	1.3	21.3
		36	39	20.99	20.78	20.69	20.79	20.76	0.3	21.3	20.99	20.89	20.78	20.77	20.81	1.3	21.3
		75	0	21.03	20.89	20.73	20.82	20.82	0.3	21.3	21.02	20.85	20.82	20.80	20.80	1.3	21.3
	64QAM	1	0	21.22	21.09	20.96	21.04	21.09	0.3	21.3	21.22	20.94	21.12	20.91	21.08	1.3	21.3
		1	37	21.19	21.02	21.02	20.92	21.05	0.3	21.3	21.12	20.98	21.03	20.93	21.02	1.3	21.3
		1	74	21.15	20.94	20.97	20.92	20.91	0.3	21.3	21.15	21.06	21.03	20.87	20.98	1.3	21.3
		36	0	20.05	19.93	19.77	19.84	19.84	1.3	20.3	19.94	19.81	19.80	19.73	19.83	2.3	20.3
		36	20	20.02	19.94	19.76	19.85	19.85	1.3	20.3	19.94	19.81	19.79	19.75	19.83	2.3	20.3
		36	39	20.02	19.84	19.73	19.81	19.83	1.3	20.3	19.94	19.88	19.78	19.76	19.82	2.3	20.3
		75	0	20.06	19.95	19.78	19.85	19.84	1.3	20.3	19.97	19.83	19.82	19.78	19.83	2.3	20.3

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		
10 MHz	QPSK	1	0	21.19	21.05	20.89	20.94	20.96	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	25	21.14	21.02	20.84	20.90	20.93	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		1	49	21.16	20.95	20.86	20.90	20.95	0	21.5	22.25	22.25	22.25	22.25	22.25	0	22.5
		25	0	21.07	20.94	20.78	20.83	20.86	0	21.5	21.99	21.82	21.81	21.81	21.77	0.3	22.3
		25	12	21.06	20.93	20.76	20.82	20.84	0	21.5	21.98	21.82	21.80	21.80	21.76	0.3	22.3
		25	25	21.06	20.85	20.76	20.81	20.84	0	21.5	21.99	21.91	21.81	21.82	21.77	0.3	22.3
		50	0	21.10	20.96	20.79	20.84	20.87	0	21.5	22.01	21.85	21.83	21.83	21.79	0.3	22.3
	16QAM	1	0	21.24	21.14	21.01	20.94	21.06	0	21.5	22.21	21.91	22.01	21.94	21.95	0.3	22.3
		1	25	21.28	21.10	20.93	20.88	20.98	0	21.5	22.13	21.92	21.95	21.94	21.94	0.3	22.3
		1	49	21.27	21.04	20.98	20.91	21.01	0	21.5	22.24	22.05	22.00	22.00	21.94	0.3	22.3
		25	0	21.07	20.94	20.80	20.83	20.87	0.3	21.3	20.99	20.80	20.80	20.77	20.82	1.3	21.3
		25	12	21.07	20.93	20.77	20.80	20.85	0.3	21.3	20.97	20.80	20.78	20.77	20.81	1.3	21.3
		25	25	21.06	20.85	20.76	20.81	20.85	0.3	21.3	20.99	20.88	20.78	20.78	20.82	1.3	21.3
		50	0	21.09	20.95	20.78	20.82	20.87	0.3	21.3	21.00	20.84	20.80	20.79	20.85	1.3	21.3
	64QAM	1	0	21.22	21.06	21.03	21.07	21.11	0.3	21.3	21.25	20.99	21.08	20.89	21.06	1.3	21.3
		1	25	21.19	20.93	20.96	21.01	21.01	0.3	21.3	21.23	20.92	21.07	20.88	21.03	1.3	21.3
		1	49	21.20	20.97	21.01	20.95	21.00	0.3	21.3	21.23	21.08	21.05	20.99	21.05	1.3	21.3
		25	0	20.03	19.94	19.77	19.84	19.84	1.3	20.3	19.95	19.80	19.80	19.75	19.82	2.3	20.3
		25	12	20.01	19.92	19.75	19.82	19.82	1.3	20.3	19.93	19.79	19.78	19.74	19.81	2.3	20.3
		25	25	20.01	19.84	19.76	19.82	19.82	1.3	20.3	19.96	19.87	19.78	19.76	19.82	2.3	20.3
		50	0	20.04	19.95	19.79	19.84	19.84	1.3	20.3	19.97	19.83	19.82	19.76	19.83	2.3	20.3

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

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	21.11	20.98	20.81	20.89	20.88	0	21.5	22.50	22.50	22.50	22.50	22.50	0	22.5
		1	12	21.06	20.95	20.77	20.86	20.84	0	21.5	22.50	22.50	22.50	22.50	22.50	0	22.5
		1	24	21.09	20.90	20.79	20.86	20.89	0	21.5	22.50	22.50	22.50	22.50	22.50	0	22.5
		12	0	20.89	20.79	20.64	20.66	20.71	0	21.5	21.91	21.74	21.68	21.62	21.70	0.3	22.3
		12	7	20.88	20.78	20.62	20.66	20.69	0	21.5	21.90	21.73	21.67	21.61	21.69	0.3	22.3
		12	13	20.87	20.70	20.63	20.64	20.70	0	21.5	21.90	21.81	21.67	21.63	21.70	0.3	22.3
		25	0	21.00	20.87	20.71	20.76	20.78	0	21.5	21.96	21.82	21.76	21.72	21.78	0.3	22.3
	16QAM	1	0	21.29	21.02	20.93	21.05	20.93	0	21.5	22.25	21.95	22.01	21.99	22.00	0.3	22.3
		1	12	21.27	21.00	20.87	20.97	20.92	0	21.5	22.25	21.92	21.96	21.97	21.95	0.3	22.3
		1	24	21.28	20.94	20.93	21.02	20.91	0	21.5	22.25	22.09	21.96	21.98	21.97	0.3	22.3
		12	0	20.86	20.70	20.58	20.60	20.69	0.3	21.3	20.84	20.68	20.66	20.60	20.69	1.3	21.3
		12	7	20.85	20.74	20.56	20.59	20.67	0.3	21.3	20.85	20.68	20.67	20.61	20.66	1.3	21.3
		12	13	20.85	20.65	20.59	20.60	20.64	0.3	21.3	20.86	20.76	20.66	20.61	20.64	1.3	21.3
		25	0	20.90	20.80	20.65	20.67	20.69	0.3	21.3	20.94	20.73	20.75	20.69	20.69	1.3	21.3
	64QAM	1	0	21.15	21.08	20.95	20.91	21.05	0.3	21.3	21.25	21.08	20.92	20.92	21.02	1.3	21.3
		1	12	21.11	21.09	20.96	20.91	21.03	0.3	21.3	21.25	21.01	20.92	20.93	21.01	1.3	21.3
		1	24	21.15	21.06	20.89	20.90	21.00	0.3	21.3	21.25	21.15	20.91	20.94	21.05	1.3	21.3
		12	0	19.83	19.65	19.58	19.61	19.57	1.3	20.3	19.79	19.68	19.61	19.48	19.56	2.3	20.3
		12	7	19.81	19.66	19.54	19.61	19.53	1.3	20.3	19.80	19.64	19.58	19.49	19.56	2.3	20.3
		12	13	19.80	19.57	19.52	19.59	19.53	1.3	20.3	19.78	19.75	19.59	19.53	19.57	2.3	20.3
		25	0	19.87	19.79	19.58	19.69	19.69	1.3	20.3	19.90	19.70	19.65	19.66	19.65	2.3	20.3

LTE Band 41 Power Class 3 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.65	24.63	24.53	24.57	24.54	0	25.5	24.00	24.00	23.60	24.00	24.00	0	24
		1	49	24.70	24.64	24.60	24.70	24.70	0	25.5	24.00	24.00	23.63	23.75	23.61	0	24
		1	99	24.55	24.56	24.59	24.63	24.68	0	25.5	24.00	24.00	23.61	24.00	24.00	0	24
		50	0	23.50	23.60	23.50	23.60	23.56	1	24.5	23.60	23.77	23.50	23.94	23.88	0	24
		50	24	23.50	23.60	23.50	23.63	23.59	1	24.5	23.51	23.60	23.54	23.66	23.44	0	24
		50	50	23.50	23.52	23.50	23.61	23.58	1	24.5	23.84	23.77	23.52	23.98	23.83	0	24
		100	0	23.50	23.63	23.53	23.68	23.63	1	24.5	23.55	23.47	23.70	23.57	23.53	0	24
	16QAM	1	0	23.83	23.87	23.68	23.84	23.80	1	24.5	23.73	24.00	24.00	24.00	24.00	0	24
		1	49	23.65	23.88	23.68	23.90	23.85	1	24.5	23.97	24.00	24.00	24.00	24.00	0	24
		1	99	23.81	23.82	23.77	23.90	23.94	1	24.5	24.00	24.00	24.00	24.00	24.00	0	24
		50	0	22.50	22.63	22.63	22.73	22.67	2	23.5	22.76	22.80	22.87	22.97	22.93	0.5	23.5
		50	24	22.50	22.62	22.68	22.76	22.75	2	23.5	22.88	22.79	22.91	23.02	22.89	0.5	23.5
		50	50	22.52	22.56	22.67	22.77	22.74	2	23.5	22.99	22.81	22.91	23.02	22.88	0.5	23.5
		100	0	22.50	22.66	22.72	22.81	22.78	2	23.5	22.89	22.83	22.96	23.06	22.94	0.5	23.5
	64QAM	1	0	23.05	23.23	23.25	23.39	23.46	2	23.5	22.84	23.07	23.04	23.17	23.27	0.5	23.5
		1	49	23.20	23.17	23.12	23.39	23.33	2	23.5	23.02	23.03	22.98	23.19	23.17	0.5	23.5
		1	99	23.38	23.20	23.12	23.34	23.25	2	23.5	23.23	23.08	23.06	23.19	23.19	0.5	23.5
		50	0	21.91	21.96	22.02	22.17	22.07	3	22.5	21.71	21.78	21.87	21.96	21.88	1.5	22.5
		50	24	22.02	21.94	22.02	22.20	22.02	3	22.5	21.85	21.78	21.89	22.01	21.85	1.5	22.5
		50	50	22.11	21.92	21.99	22.17	21.99	3	22.5	21.96	21.80	21.87	22.00	21.84	1.5	22.5
		100	0	22.02	21.95	22.05	22.24	22.05	3	22.5	21.86	21.81	21.92	22.04	21.88	1.5	22.5

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		
15 MHz	QPSK	1	0	24.57	24.64	24.50	24.53	24.51	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	37	24.50	24.63	24.52	24.61	24.61	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	74	24.53	24.53	24.50	24.57	24.62	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		36	0	23.50	23.60	23.50	23.54	23.53	1	24.5	23.63	23.76	23.84	23.92	23.85	0	24
		36	20	23.50	23.60	23.50	23.60	23.52	1	24.5	23.75	23.78	23.91	23.99	23.83	0	24
		36	39	23.50	23.52	23.50	23.58	23.57	1	24.5	23.79	23.78	23.90	23.98	23.81	0	24
		75	0	23.50	23.62	23.52	23.61	23.61	1	24.5	23.73	23.80	23.93	24.00	23.86	0	24
	16QAM	1	0	23.63	23.71	23.62	23.61	23.63	1	24.5	23.75	23.81	23.95	24.00	23.97	0	24
		1	37	23.57	23.67	23.62	23.69	23.69	1	24.5	23.87	23.86	24.00	24.00	23.92	0	24
		1	74	23.63	23.62	23.58	23.65	23.72	1	24.5	24.00	23.88	23.99	24.00	23.89	0	24
		36	0	22.50	22.61	22.50	22.59	22.57	2	23.5	22.72	22.77	22.88	22.95	22.88	0.5	23.5
		36	20	22.50	22.63	22.52	22.68	22.56	2	23.5	22.86	22.79	22.95	23.02	22.87	0.5	23.5
		36	39	22.54	22.55	22.50	22.66	22.61	2	23.5	22.93	22.79	22.93	23.02	22.85	0.5	23.5
		75	0	22.50	22.65	22.55	22.71	22.66	2	23.5	22.88	22.82	22.97	23.05	22.90	0.5	23.5
	64QAM	1	0	23.03	23.05	23.26	23.32	23.23	2	23.5	22.86	22.89	23.09	23.09	23.08	0.5	23.5
		1	37	23.17	23.00	23.28	23.32	23.15	2	23.5	22.94	22.88	23.12	23.12	22.98	0.5	23.5
		1	74	23.26	23.02	23.19	23.29	23.08	2	23.5	23.14	22.92	23.10	23.10	22.92	0.5	23.5
		36	0	21.84	21.91	21.99	22.12	22.02	3	22.5	21.66	21.73	21.82	21.90	21.85	1.5	22.5
		36	20	21.97	21.91	22.01	22.18	22.00	3	22.5	21.79	21.76	21.87	21.97	21.84	1.5	22.5
		36	39	22.03	21.89	21.99	22.15	21.97	3	22.5	21.88	21.77	21.85	21.95	21.81	1.5	22.5
		75	0	21.97	21.91	22.04	22.19	22.01	3	22.5	21.82	21.77	21.89	21.98	21.84	1.5	22.5

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		
10 MHz	QPSK	1	0	24.55	24.74	24.59	24.66	24.67	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	25	24.55	24.70	24.60	24.68	24.64	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	49	24.62	24.65	24.62	24.70	24.72	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		25	0	23.50	23.69	23.53	23.64	23.64	1	24.5	23.77	23.76	23.81	23.93	23.87	0	24
		25	12	23.52	23.68	23.58	23.70	23.62	1	24.5	23.83	23.76	23.86	23.99	23.85	0	24
		25	25	23.60	23.63	23.59	23.70	23.67	1	24.5	23.91	23.77	23.87	24.00	23.85	0	24
		50	0	23.55	23.70	23.60	23.72	23.69	1	24.5	23.86	23.79	23.89	24.00	23.88	0	24
	16QAM	1	0	23.66	23.81	23.72	23.82	23.80	1	24.5	23.95	23.85	23.99	24.00	24.00	0	24
		1	25	23.72	23.78	23.72	23.87	23.75	1	24.5	24.00	23.84	24.00	24.00	24.00	0	24
		1	49	23.79	23.78	23.75	23.87	23.81	1	24.5	24.00	23.91	24.00	24.00	23.94	0	24
		25	0	22.50	22.74	22.57	22.68	22.68	2	23.5	22.79	22.79	22.86	22.97	22.92	0.5	23.5
		25	12	22.55	22.72	22.63	22.72	22.66	2	23.5	22.85	22.78	22.90	23.03	22.90	0.5	23.5
		25	25	22.63	22.68	22.63	22.73	22.70	2	23.5	22.94	22.80	22.93	23.03	22.90	0.5	23.5
		50	0	22.56	22.75	22.66	22.74	22.73	2	23.5	22.88	22.81	22.93	23.05	22.91	0.5	23.5
	64QAM	1	0	23.07	23.06	23.20	23.30	23.21	2	23.5	23.00	22.97	23.05	23.19	23.17	0.5	23.5
		1	25	23.13	22.99	23.24	23.31	23.14	2	23.5	23.09	22.92	23.02	23.25	23.06	0.5	23.5
		1	49	23.26	23.04	23.20	23.32	23.14	2	23.5	23.30	23.04	23.09	23.28	23.11	0.5	23.5
		25	0	21.90	21.91	21.97	22.12	22.00	3	22.5	21.79	21.82	21.85	21.96	21.90	1.5	22.5
		25	12	21.96	21.89	21.98	22.16	21.97	3	22.5	21.86	21.80	21.90	22.01	21.89	1.5	22.5
		25	25	22.03	21.90	21.98	22.16	21.97	3	22.5	21.94	21.82	21.91	22.03	21.89	1.5	22.5
		50	0	21.99	21.92	22.02	22.18	22.00	3	22.5	21.90	21.83	21.94	22.04	21.91	1.5	22.5

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

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	24.56	24.72	24.61	24.66	24.62	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	12	24.62	24.70	24.63	24.70	24.67	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		1	24	24.73	24.68	24.63	24.74	24.69	0	25.5	24.00	24.00	24.00	24.00	24.00	0	24
		12	0	23.50	23.57	23.50	23.58	23.50	1	24.5	23.70	23.59	23.64	23.79	23.70	0	24
		12	7	23.50	23.57	23.50	23.61	23.50	1	24.5	23.72	23.59	23.70	23.86	23.68	0	24
		12	13	23.50	23.50	23.50	23.60	23.53	1	24.5	23.76	23.60	23.70	23.86	23.68	0	24
		25	0	23.52	23.66	23.57	23.67	23.59	1	24.5	23.79	23.68	23.80	23.93	23.78	0	24
	16QAM	1	0	23.58	23.85	23.83	23.75	23.75	1	24.5	23.81	23.87	24.00	24.00	23.96	0	24
		1	12	23.66	23.85	23.84	23.78	23.78	1	24.5	23.89	23.82	24.00	24.00	23.94	0	24
		1	24	23.75	23.79	23.87	23.78	23.78	1	24.5	23.97	23.89	24.00	24.00	23.93	0	24
		12	0	22.50	22.51	22.50	22.50	22.50	2	23.5	22.67	22.58	22.66	22.84	22.68	0.5	23.5
		12	7	22.50	22.50	22.50	22.55	22.50	2	23.5	22.67	22.57	22.70	22.85	22.68	0.5	23.5
		12	13	22.50	22.50	22.50	22.54	22.50	2	23.5	22.69	22.59	22.71	22.87	22.70	0.5	23.5
		25	0	22.50	22.58	22.50	22.57	22.57	2	23.5	22.71	22.66	22.78	22.89	22.77	0.5	23.5
	64QAM	1	0	23.07	23.03	23.15	23.25	23.11	2	23.5	23.00	22.88	22.97	23.13	22.95	0.5	23.5
		1	12	23.12	23.00	23.19	23.26	23.07	2	23.5	23.00	22.89	23.07	23.19	22.91	0.5	23.5
		1	24	23.24	22.99	23.23	23.31	23.09	2	23.5	23.17	22.95	23.02	23.25	22.97	0.5	23.5
		12	0	21.77	21.73	21.70	21.94	21.76	3	22.5	21.55	21.57	21.58	21.66	21.68	1.5	22.5
		12	7	21.78	21.68	21.72	21.96	21.75	3	22.5	21.61	21.58	21.66	21.75	21.65	1.5	22.5
		12	13	21.80	21.67	21.72	21.94	21.75	3	22.5	21.64	21.61	21.69	21.72	21.67	1.5	22.5
		25	0	21.85	21.75	21.85	22.01	21.83	3	22.5	21.75	21.66	21.72	21.85	21.72	1.5	22.5

LTE Band 41 Power Class 3 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	19.50	19.50	19.30	19.50	19.30	0	19.5	21.70	21.42	21.38	21.60	21.58	0	21.7
		1	49	19.50	19.50	19.30	19.50	19.30	0	19.5	21.70	21.47	21.40	21.70	21.60	0	21.7
		1	99	19.50	19.50	19.30	19.50	19.30	0	19.5	21.69	21.45	21.37	21.64	21.55	0	21.7
		50	0	19.50	19.40	19.30	19.40	19.50	0	19.5	21.56	21.39	21.30	21.44	21.47	0	21.7
		50	24	19.50	19.40	19.30	19.40	19.50	0	19.5	21.62	21.41	21.34	21.47	21.52	0	21.7
		50	50	19.50	19.40	19.30	19.40	19.50	0	19.5	21.59	21.35	21.31	21.47	21.50	0	21.7
		100	0	19.50	19.40	19.30	19.40	19.50	0	19.5	21.66	21.43	21.38	21.51	21.56	0	21.7
	16QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.70	21.48	21.70	21.70	0	21.7
		1	49	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.66	21.42	21.64	21.70	0	21.7
		1	99	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.67	21.54	21.70	21.70	0	21.7
		50	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.57	21.45	21.35	21.48	21.46	0	21.7
		50	24	19.50	19.50	19.50	19.50	19.50	0	19.5	21.62	21.41	21.34	21.47	21.51	0	21.7
		50	50	19.50	19.50	19.50	19.50	19.50	0	19.5	21.65	21.35	21.33	21.47	21.58	0	21.7
		100	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.66	21.44	21.36	21.51	21.55	0	21.7
	64QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.41	21.16	20.97	21.40	21.70	0	21.7
		1	49	19.50	19.50	19.50	19.50	19.50	0	19.5	21.10	21.20	20.92	21.23	21.52	0	21.7
		1	99	19.50	19.50	19.50	19.50	19.50	0	19.5	21.36	21.14	21.02	21.32	21.54	0	21.7
		50	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		50	24	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		50	50	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		100	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5

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		
15 MHz	QPSK	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.61	21.47	21.61	21.61	0	21.7
		1	37	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.56	21.49	21.61	21.66	0	21.7
		1	74	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.49	21.50	21.60	21.68	0	21.7
		36	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.63	21.50	21.37	21.52	21.49	0	21.7
		36	20	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.46	21.38	21.53	21.52	0	21.7
		36	39	19.50	19.50	19.50	19.50	19.50	0	19.5	21.66	21.40	21.37	21.52	21.51	0	21.7
		75	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.48	21.41	21.54	21.54	0	21.7
	16QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.68	21.44	21.65	21.62	0	21.7
		1	37	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.58	21.48	21.65	21.60	0	21.7
		1	74	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.54	21.51	21.68	21.65	0	21.7
		36	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.58	21.51	21.36	21.51	21.43	0	21.7
		36	20	19.50	19.50	19.50	19.50	19.50	0	19.5	21.66	21.45	21.36	21.53	21.52	0	21.7
		36	39	19.50	19.50	19.50	19.50	19.50	0	19.5	21.62	21.41	21.36	21.51	21.49	0	21.7
		75	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.65	21.44	21.39	21.49	21.51	0	21.7
	64QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.27	21.05	21.04	21.27	21.41	0	21.7
		1	37	19.50	19.50	19.50	19.50	19.50	0	19.5	21.11	21.04	21.12	21.11	21.34	0	21.7
		1	74	19.50	19.50	19.50	19.50	19.50	0	19.5	21.35	20.99	21.07	21.14	21.29	0	21.7
		36	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		36	20	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		36	39	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		75	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5

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		
10 MHz	QPSK	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.67	21.52	21.68	21.68	0	21.7
		1	25	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.57	21.55	21.64	21.69	0	21.7
		1	49	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.60	21.59	21.69	21.70	0	21.7
		25	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.48	21.45	21.56	21.61	0	21.7
		25	12	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.48	21.41	21.55	21.60	0	21.7
		25	25	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.44	21.43	21.57	21.61	0	21.7
		50	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.51	21.42	21.58	21.63	0	21.7
	16QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.70	21.61	21.70	21.66	0	21.7
		1	25	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.67	21.53	21.70	21.66	0	21.7
		1	49	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.61	21.55	21.70	21.70	0	21.7
		25	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.67	21.48	21.40	21.57	21.61	0	21.7
		25	12	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.50	21.38	21.56	21.60	0	21.7
		25	25	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.45	21.38	21.59	21.61	0	21.7
		50	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.51	21.41	21.58	21.62	0	21.7
	64QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.19	21.24	21.04	21.36	21.53	0	21.7
		1	25	19.50	19.50	19.50	19.50	19.50	0	19.5	21.10	21.20	21.00	21.30	21.43	0	21.7
		1	49	19.50	19.50	19.50	19.50	19.50	0	19.5	21.29	21.31	21.06	21.34	21.52	0	21.7
		25	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		25	12	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		25	25	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		50	0	19.50	19.50	19.50	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5

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	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	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.58	21.54	21.66	21.67	0	21.7
		1	12	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.53	21.47	21.64	21.66	0	21.7
		1	24	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.52	21.52	21.70	21.70	0	21.7
		12	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.41	21.30	21.48	21.50	0	21.7
		12	7	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.39	21.30	21.47	21.49	0	21.7
		12	13	19.50	19.48	19.50	19.50	19.50	0	19.5	21.67	21.35	21.31	21.48	21.51	0	21.7
		25	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.48	21.39	21.56	21.59	0	21.7
	16QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.69	21.66	21.70	21.70	0	21.7
		1	12	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.67	21.58	21.69	21.70	0	21.7
		1	24	19.50	19.50	19.50	19.50	19.50	0	19.5	21.70	21.67	21.68	21.68	21.70	0	21.7
		12	0	19.50	19.50	19.48	19.50	19.50	0	19.5	21.64	21.35	21.24	21.50	21.45	0	21.7
		12	7	19.50	19.50	19.48	19.50	19.50	0	19.5	21.58	21.36	21.25	21.43	21.46	0	21.7
		12	13	19.50	19.46	19.48	19.50	19.50	0	19.5	21.58	21.29	21.25	21.48	21.44	0	21.7
		25	0	19.50	19.50	19.49	19.50	19.50	0	19.5	21.64	21.44	21.30	21.49	21.53	0	21.7
	64QAM	1	0	19.50	19.50	19.50	19.50	19.50	0	19.5	21.03	21.14	21.04	21.21	21.60	0	21.7
		1	12	19.50	19.50	19.50	19.50	19.50	0	19.5	21.08	21.14	21.07	21.05	21.49	0	21.7
		1	24	19.50	19.50	19.50	19.50	19.50	0	19.5	21.13	21.16	21.08	21.14	21.54	0	21.7
		12	0	19.50	19.48	19.34	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		12	7	19.50	19.45	19.36	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		12	13	19.50	19.39	19.37	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5
		25	0	19.50	19.50	19.44	19.50	19.50	0	19.5	20.50	20.50	20.50	20.50	20.50	0.2	21.5

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	24.50	24.50	24.50	0	25.5	17.16	17.21	17.21	0	18
		1	49	24.50	24.50	24.50	0	25.5	17.25	17.25	17.25	0	18
		1	99	24.50	24.50	24.50	0	25.5	17.16	17.23	17.16	0	18
		50	0	23.50	23.50	23.50	1	24.5	17.00	17.15	17.17	0	18
		50	24	23.50	23.50	23.50	1	24.5	17.20	17.16	17.16	0	18
		50	50	23.50	23.50	23.50	1	24.5	17.05	17.14	17.08	0	18
		100	0	23.50	23.50	23.50	1	24.5	17.09	17.20	17.20	0	18
	16QAM	1	0	23.74	23.89	23.72	1	24.5	17.50	17.50	17.50	0	18
		1	49	23.73	23.81	23.62	1	24.5	17.38	17.50	17.50	0	18
		1	99	23.70	23.82	23.79	1	24.5	17.50	17.50	17.50	0	18
		50	0	22.62	22.59	22.50	2	23.5	17.01	17.17	17.15	0	18
		50	24	22.60	22.59	22.50	2	23.5	17.01	17.16	17.15	0	18
		50	50	22.52	22.56	22.57	2	23.5	17.05	17.12	17.10	0	18
		100	0	22.66	22.64	22.50	2	23.5	17.08	17.21	17.21	0	18
	64QAM	1	0	23.13	23.01	23.18	2	23.5	17.50	17.50	17.50	0	18
		1	49	23.08	22.91	23.09	2	23.5	17.50	17.50	17.50	0	18
		1	99	23.01	22.95	23.13	2	23.5	17.50	17.50	17.50	0	18
		50	0	21.98	21.99	21.84	3	22.5	17.37	17.49	17.50	0	18
		50	24	21.95	21.99	21.86	3	22.5	17.38	17.47	17.50	0	18
		50	50	21.85	21.93	21.92	3	22.5	17.41	17.43	17.43	0	18
		100	0	22.01	22.03	21.91	3	22.5	17.44	17.50	17.50	0	18

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	24.50	24.50	24.50	0	25.5	17.12	17.18	17.19	0	18
		1	37	24.50	24.50	24.50	0	25.5	17.15	17.18	17.19	0	18
		1	74	24.50	24.50	24.50	0	25.5	17.15	17.14	17.11	0	18
		36	0	23.50	23.50	23.50	1	24.5	17.05	17.11	17.15	0	18
		36	20	23.50	23.50	23.50	1	24.5	17.09	17.13	17.15	0	18
		36	39	23.50	23.50	23.50	1	24.5	17.07	17.14	17.14	0	18
		75	0	23.50	23.50	23.50	1	24.5	17.12	17.15	17.18	0	18
	16QAM	1	0	23.66	23.70	23.75	1	24.5	17.48	17.50	17.47	0	18
		1	37	23.69	23.73	23.76	1	24.5	17.50	17.50	17.47	0	18
		1	74	23.62	23.76	23.75	1	24.5	17.50	17.50	17.45	0	18
		36	0	22.57	22.65	22.56	2	23.5	17.07	17.11	17.13	0	18
		36	20	22.60	22.68	22.63	2	23.5	17.10	17.14	17.15	0	18
		36	39	22.59	22.68	22.62	2	23.5	17.08	17.15	17.15	0	18
		75	0	22.61	22.69	22.66	2	23.5	17.11	17.14	17.17	0	18
	64QAM	1	0	22.96	23.09	23.08	2	23.5	17.50	17.50	17.50	0	18
		1	37	22.90	23.04	23.12	2	23.5	17.50	17.50	17.50	0	18
		1	74	22.87	23.01	23.00	2	23.5	17.50	17.50	17.50	0	18
		36	0	21.94	22.00	21.86	3	22.5	17.41	17.50	17.47	0	18
		36	20	21.94	22.01	21.92	3	22.5	17.44	17.50	17.47	0	18
		36	39	21.93	22.02	21.91	3	22.5	17.42	17.50	17.44	0	18
		75	0	21.93	22.00	21.95	3	22.5	17.45	17.50	17.47	0	18

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	24.50	24.50	24.50	0	25.5	17.17	17.23	17.26	0	18
		1	25	24.50	24.50	24.50	0	25.5	17.20	17.21	17.23	0	18
		1	49	24.50	24.50	24.50	0	25.5	17.27	17.19	17.27	0	18
		25	0	23.50	23.50	23.50	1	24.5	17.13	17.17	17.18	0	18
		25	12	23.50	23.50	23.50	1	24.5	17.12	17.17	17.17	0	18
		25	25	23.50	23.50	23.50	1	24.5	17.14	17.18	17.19	0	18
		50	0	23.50	23.50	23.50	1	24.5	17.09	17.20	17.19	0	18
	16QAM	1	0	23.80	23.80	23.70	1	24.5	17.50	17.50	17.50	0	18
		1	25	23.73	23.77	23.70	1	24.5	17.50	17.50	17.50	0	18
		1	49	23.75	23.80	23.78	1	24.5	17.50	17.50	17.50	0	18
		25	0	22.62	22.68	22.62	2	23.5	17.16	17.20	17.20	0	18
		25	12	22.63	22.68	22.61	2	23.5	17.15	17.20	17.18	0	18
		25	25	22.65	22.70	22.61	2	23.5	17.16	17.21	17.21	0	18
		50	0	22.63	22.66	22.62	2	23.5	17.08	17.15	17.19	0	18
	64QAM	1	0	23.00	23.12	22.99	2	23.5	17.50	17.50	17.50	0	18
		1	25	23.00	23.09	22.96	2	23.5	17.50	17.50	17.50	0	18
		1	49	22.99	23.06	22.97	2	23.5	17.50	17.50	17.50	0	18
		25	0	21.96	22.01	21.95	3	22.5	17.45	17.50	17.49	0	18
		25	12	21.99	22.01	21.95	3	22.5	17.42	17.49	17.47	0	18
		25	25	22.00	22.03	21.94	3	22.5	17.43	17.50	17.49	0	18
		50	0	21.93	22.01	21.96	3	22.5	17.43	17.49	17.49	0	18

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	24.50	24.50	24.50	0	25.5	17.19	17.19	17.14	0	18
		1	12	24.50	24.50	24.50	0	25.5	17.15	17.16	17.14	0	18
		1	24	24.50	24.50	24.50	0	25.5	17.20	17.19	17.16	0	18
		12	0	23.50	23.50	23.50	1	24.5	17.05	17.06	17.05	0	18
		12	7	23.50	23.50	23.50	1	24.5	17.03	17.05	17.04	0	18
		12	13	23.50	23.50	23.50	1	24.5	17.03	17.05	17.04	0	18
		25	0	23.50	23.50	23.50	1	24.5	17.08	17.07	17.08	0	18
	16QAM	1	0	23.79	23.71	23.77	1	24.5	17.50	17.50	17.50	0	18
		1	12	23.69	23.70	23.76	1	24.5	17.50	17.50	17.50	0	18
		1	24	23.74	23.79	23.80	1	24.5	17.50	17.50	17.50	0	18
		12	0	22.50	22.50	22.50	2	23.5	17.05	17.05	17.00	0	18
		12	7	22.50	22.50	22.50	2	23.5	17.04	17.05	17.00	0	18
		12	13	22.51	22.53	22.50	2	23.5	17.04	17.05	17.00	0	18
		25	0	22.50	22.50	22.50	2	23.5	17.02	17.03	17.05	0	18
	64QAM	1	0	23.12	23.17	23.11	2	23.5	17.50	17.50	17.50	0	18
		1	12	23.06	23.10	23.07	2	23.5	17.50	17.50	17.50	0	18
		1	24	23.19	23.12	23.14	2	23.5	17.50	17.50	17.50	0	18
		12	0	21.76	21.79	21.85	3	22.5	17.32	17.35	17.37	0	18
		12	7	21.77	21.75	21.85	3	22.5	17.31	17.33	17.35	0	18
		12	13	21.76	21.75	21.84	3	22.5	17.30	17.33	17.35	0	18
		25	0	21.82	21.81	21.86	3	22.5	17.37	17.39	17.35	0	18

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987	132322	132657	MPR	Tune-up Limit	131987	132322	132657	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	24.60	24.70	24.66	0	25.5	17.08	17.06	17.07	0	18
		1	8	24.64	24.74	24.71	0	25.5	17.11	17.11	17.10	0	18
		1	14	24.59	24.71	24.67	0	25.5	17.07	17.07	17.04	0	18
		8	0	23.58	23.57	23.53	1	24.5	17.00	17.00	17.00	0	18
		8	4	23.58	23.57	23.51	1	24.5	17.00	17.00	17.00	0	18
		8	7	23.60	23.57	23.53	1	24.5	17.00	17.00	17.00	0	18
		15	0	23.67	23.65	23.66	1	24.5	17.01	17.05	17.00	0	18
	16QAM	1	0	23.92	23.89	23.95	1	24.5	17.43	17.36	17.32	0	18
		1	8	23.94	23.97	23.96	1	24.5	17.50	17.46	17.34	0	18
		1	14	23.88	23.96	23.92	1	24.5	17.43	17.43	17.26	0	18
		8	0	22.54	22.56	22.55	2	23.5	17.00	17.00	17.00	0	18
		8	4	22.53	22.55	22.55	2	23.5	17.00	17.00	17.00	0	18
		8	7	22.53	22.56	22.54	2	23.5	17.00	17.00	17.00	0	18
		15	0	22.59	22.59	22.56	2	23.5	17.00	17.00	17.00	0	18
	64QAM	1	0	23.00	23.12	22.99	2	23.5	17.50	17.50	17.50	0	18
		1	8	23.00	23.09	22.96	2	23.5	17.50	17.50	17.50	0	18
		1	14	22.99	23.06	22.97	2	23.5	17.50	17.50	17.50	0	18
		8	0	21.96	22.01	21.95	3	22.5	17.25	17.27	17.18	0	18
		8	4	21.99	22.01	21.95	3	22.5	17.27	17.27	17.18	0	18
		8	7	22.00	22.03	21.94	3	22.5	17.28	17.27	17.17	0	18
		15	0	21.93	22.01	21.96	3	22.5	17.22	17.28	17.25	0	18

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	24.70	24.80	24.78	0	25.5	17.18	17.15	17.16	0	18
		1	3	24.67	24.80	24.70	0	25.5	17.17	17.15	17.14	0	18
		1	5	24.71	24.84	24.74	0	25.5	17.21	17.18	17.17	0	18
		3	0	25.50	24.52	24.50	0	25.5	17.45	17.03	17.04	0	18
		3	1	24.53	24.52	24.50	0	25.5	17.50	17.02	17.02	0	18
		3	3	24.50	24.54	24.50	0	25.5	17.03	17.05	17.03	0	18
		6	0	24.50	23.65	23.56	1	24.5	17.01	17.00	17.00	0	18
	16QAM	1	0	23.93	24.11	23.93	1	24.5	17.47	17.39	17.35	0	18
		1	3	23.89	24.06	23.94	1	24.5	17.45	17.35	17.33	0	18
		1	5	23.92	24.10	23.92	1	24.5	17.50	17.36	17.38	0	18
		3	0	23.60	23.71	23.68	1	24.5	17.03	17.05	17.07	0	18
		3	1	23.58	23.71	23.64	1	24.5	17.01	17.08	17.04	0	18
		3	3	23.61	23.70	23.65	1	24.5	17.04	17.05	17.05	0	18
		6	0	22.65	22.52	22.52	2	23.5	17.03	17.05	17.07	0	18
	64QAM	1	0	23.12	23.17	23.11	2	23.5	17.50	17.50	17.50	0	18
		1	3	23.06	23.10	23.07	2	23.5	17.50	17.50	17.50	0	18
		1	5	23.19	23.12	23.14	2	23.5	17.50	17.50	17.50	0	18
		3	0	22.50	22.50	22.50	2	23.5	17.50	17.50	17.50	0	18
		3	1	22.50	22.50	22.50	2	23.5	17.50	17.50	17.50	0	18
		3	3	22.50	22.50	22.50	2	23.5	17.50	17.50	17.50	0	18
		6	0	21.82	21.81	21.86	3	22.5	17.50	17.50	17.50	0	18

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	19.66	19.63	19.64	0	20.2	18.50	18.20	18.10	0	19
		1	49	20.11	19.70	19.74	0	20.2	18.60	18.30	18.20	0	19
		1	99	19.71	19.65	19.69	0	20.2	18.58	18.20	18.10	0	19
		50	0	19.75	19.80	19.84	0	20.2	18.52	18.51	18.54	0	19
		50	24	20.20	19.80	19.82	0	20.2	18.52	18.49	18.57	0	19
		50	50	19.82	19.79	19.76	0	20.2	18.53	18.51	18.54	0	19
		100	0	19.77	19.80	19.74	0	20.2	18.55	18.54	18.65	0	19
	16QAM	1	0	19.45	19.40	19.43	0	20.2	18.92	18.90	19.00	0	19
		1	49	19.48	19.49	19.51	0	20.2	18.88	18.87	19.00	0	19
		1	99	19.48	19.42	19.47	0	20.2	18.93	18.90	19.00	0	19
		50	0	19.76	19.81	19.85	0	20.2	18.50	18.52	18.54	0	19
		50	24	19.83	19.80	19.84	0	20.2	18.50	18.52	18.57	0	19
		50	50	19.83	19.80	19.76	0	20.2	18.51	18.52	18.54	0	19
		100	0	19.78	19.77	19.77	0	20.2	18.55	18.54	18.64	0	19
	64QAM	1	0	19.35	19.30	19.56	0	20.2	18.70	18.92	18.73	0	19
		1	49	19.49	19.36	19.66	0	20.2	18.63	18.92	18.70	0	19
		1	99	19.51	19.30	19.70	0	20.2	18.63	18.95	18.66	0	19
		50	0	19.83	19.79	19.74	0	20.2	18.54	18.53	18.53	0	19
		50	24	19.75	19.80	19.77	0	20.2	18.57	18.53	18.53	0	19
		50	50	19.74	19.80	19.82	0	20.2	18.51	18.53	18.56	0	19
		100	0	19.82	19.82	19.84	0	20.2	18.62	18.58	18.58	0	19

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	19.67	19.67	19.65	0	20.2	19.00	18.55	18.57	0	19
		1	37	19.68	19.69	19.58	0	20.2	19.00	18.53	18.63	0	19
		1	74	19.74	19.68	19.69	0	20.2	18.55	18.58	18.54	0	19
		36	0	19.75	19.83	19.68	0	20.2	18.50	18.52	18.49	0	19
		36	20	19.78	19.81	19.61	0	20.2	18.52	18.53	18.55	0	19
		36	39	19.86	19.81	19.63	0	20.2	18.52	18.52	18.55	0	19
		75	0	19.76	19.79	19.69	0	20.2	18.53	18.54	18.58	0	19
	16QAM	1	0	19.59	19.53	19.44	0	20.2	18.80	18.82	18.91	0	19
		1	37	19.52	19.52	19.36	0	20.2	18.84	18.83	18.92	0	19
		1	74	19.63	19.50	19.46	0	20.2	18.82	18.81	18.88	0	19
		36	0	19.80	19.82	19.72	0	20.2	18.50	18.50	18.50	0	19
		36	20	19.79	19.80	19.75	0	20.2	18.54	18.50	18.56	0	19
		36	39	19.86	19.80	19.74	0	20.2	18.53	18.49	18.54	0	19
		75	0	19.76	19.79	19.71	0	20.2	18.55	18.50	18.59	0	19
	64QAM	1	0	19.44	19.43	19.39	0	20.2	18.81	18.86	18.88	0	19
		1	37	19.48	19.43	19.33	0	20.2	18.84	18.85	18.92	0	19
		1	74	19.58	19.47	19.39	0	20.2	18.69	18.91	18.88	0	19
		36	0	19.81	19.89	19.92	0	20.2	18.54	18.53	18.56	0	19
		36	20	19.82	19.91	19.98	0	20.2	18.60	18.55	18.55	0	19
		36	39	19.74	19.91	19.97	0	20.2	18.59	18.55	18.53	0	19
		75	0	19.83	19.89	19.92	0	20.2	18.60	18.56	18.53	0	19

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	19.59	19.62	19.59	0	20.2	18.60	18.61	18.58	0	19
		1	25	19.61	19.64	19.53	0	20.2	18.58	18.59	18.64	0	19
		1	49	19.62	19.58	19.55	0	20.2	18.58	18.64	18.60	0	19
		25	0	19.63	19.67	19.60	0	20.2	18.56	18.55	18.64	0	19
		25	12	19.65	19.68	19.64	0	20.2	18.55	18.54	18.62	0	19
		25	25	19.68	19.70	19.62	0	20.2	18.55	18.57	18.65	0	19
		50	0	19.68	19.71	19.61	0	20.2	18.56	18.56	18.65	0	19
	16QAM	1	0	19.41	19.40	19.36	0	20.2	18.90	18.89	18.94	0	19
		1	25	19.42	19.42	19.35	0	20.2	18.85	18.87	19.00	0	19
		1	49	19.40	19.36	19.37	0	20.2	18.93	18.94	18.97	0	19
		25	0	19.68	19.70	19.62	0	20.2	18.55	18.61	18.67	0	19
		25	12	19.69	19.70	19.64	0	20.2	18.55	18.59	18.66	0	19
		25	25	19.67	19.69	19.62	0	20.2	18.57	18.62	18.68	0	19
		50	0	19.68	19.70	19.62	0	20.2	18.55	18.60	18.67	0	19
	64QAM	1	0	19.56	19.50	19.46	0	20.2	18.82	18.77	18.79	0	19
		1	25	19.55	19.51	19.43	0	20.2	18.86	18.76	18.79	0	19
		1	49	19.50	19.45	19.45	0	20.2	18.86	18.80	18.79	0	19
		25	0	19.92	19.91	19.98	0	20.2	18.65	18.60	18.58	0	19
		25	12	19.91	19.90	19.97	0	20.2	18.65	18.60	18.56	0	19
		25	25	19.93	19.92	20.00	0	20.2	18.66	18.60	18.56	0	19
		50	0	19.93	19.90	19.98	0	20.2	18.66	18.59	18.54	0	19

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	19.57	19.59	19.46	0	20.2	18.73	18.60	18.63	0	19
		1	12	19.57	19.62	19.59	0	20.2	18.69	18.55	18.57	0	19
		1	24	19.63	19.67	19.65	0	20.2	18.72	18.59	18.61	0	19
		12	0	19.81	19.79	19.66	0	20.2	18.61	18.49	18.53	0	19
		12	7	19.75	19.79	19.66	0	20.2	18.60	18.48	18.52	0	19
		12	13	19.75	19.78	19.74	0	20.2	18.60	18.49	18.51	0	19
		25	0	19.72	19.76	19.62	0	20.2	18.64	18.52	18.54	0	19
	16QAM	1	0	19.34	19.33	19.25	0	20.2	19.00	19.00	18.99	0	19
		1	12	19.31	19.34	19.25	0	20.2	18.98	18.98	18.97	0	19
		1	24	19.25	19.31	19.25	0	20.2	19.00	19.00	19.00	0	19
		12	0	19.85	19.86	19.69	0	20.2	18.52	18.48	18.49	0	19
		12	7	19.80	19.84	19.70	0	20.2	18.54	18.49	18.47	0	19
		12	13	19.81	19.84	19.79	0	20.2	18.55	18.49	18.47	0	19
		25	0	19.74	19.79	19.65	0	20.2	18.53	18.47	18.53	0	19
	64QAM	1	0	19.44	19.40	19.34	0	20.2	18.66	18.89	18.92	0	19
		1	12	19.49	19.49	19.35	0	20.2	18.78	18.82	18.85	0	19
		1	24	19.47	19.43	19.40	0	20.2	18.82	18.91	18.87	0	19
		12	0	19.71	19.79	19.88	0	20.2	18.40	18.34	18.53	0	19
		12	7	19.75	19.78	19.86	0	20.2	18.39	18.35	18.54	0	19
		12	13	19.76	19.77	19.80	0	20.2	18.35	18.36	18.53	0	19
		25	0	19.76	19.74	19.85	0	20.2	18.43	18.40	18.52	0	19

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987	132322	132657	MPR	Tune-up Limit	131987	132322	132657	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	19.63	19.61	19.51	0	20.2	18.65	18.51	18.45	0	19
		1	8	19.58	19.61	19.55	0	20.2	18.54	18.50	18.45	0	19
		1	14	19.56	19.64	19.60	0	20.2	18.50	18.47	18.44	0	19
		8	0	19.77	19.78	19.64	0	20.2	18.45	18.32	18.31	0	19
		8	4	19.78	19.77	19.71	0	20.2	18.37	18.32	18.29	0	19
		8	7	19.77	19.76	19.70	0	20.2	18.38	18.32	18.30	0	19
		15	0	19.70	19.70	19.63	0	20.2	18.46	18.39	18.38	0	19
	16QAM	1	0	19.47	19.43	19.34	0	20.2	18.87	18.69	18.69	0	19
		1	8	19.41	19.37	19.46	0	20.2	18.81	18.78	18.70	0	19
		1	14	19.44	19.37	19.51	0	20.2	18.68	18.67	18.71	0	19
		8	0	19.82	19.80	19.80	0	20.2	18.43	18.29	18.28	0	19
		8	4	19.84	19.82	19.89	0	20.2	18.36	18.28	18.27	0	19
		8	7	19.82	19.81	19.87	0	20.2	18.35	18.27	18.28	0	19
		15	0	19.79	19.77	19.85	0	20.2	18.37	18.30	18.27	0	19
	64QAM	1	0	19.56	19.54	19.42	0	20.2	18.78	18.57	18.51	0	19
		1	8	19.56	19.53	19.45	0	20.2	18.54	18.69	18.51	0	19
		1	14	19.53	19.54	19.56	0	20.2	18.64	18.56	18.64	0	19
		8	0	19.67	19.70	19.80	0	20.2	18.37	18.24	18.23	0	19
		8	4	19.64	19.69	19.75	0	20.2	18.30	18.25	18.23	0	19
		8	7	19.64	19.69	19.75	0	20.2	18.30	18.27	18.20	0	19
		15	0	19.71	19.75	19.81	0	20.2	18.35	18.30	18.30	0	19

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	19.45	19.45	19.39	0	20.2	18.55	18.54	18.54	0	19
		1	3	19.46	19.46	19.52	0	20.2	18.53	18.54	18.48	0	19
		1	5	19.48	19.43	19.48	0	20.2	18.57	18.58	18.52	0	19
		3	0	19.69	19.74	19.70	0	20.2	18.34	18.42	18.32	0	19
		3	1	19.70	19.77	19.72	0	20.2	18.35	18.37	18.29	0	19
		3	3	19.70	19.74	19.70	0	20.2	18.35	18.37	18.28	0	19
		6	0	19.78	19.87	19.81	0	20.2	18.24	18.32	18.20	0	19
	16QAM	1	0	19.23	19.34	19.25	0	20.2	18.81	18.69	18.77	0	19
		1	3	19.26	19.32	19.35	0	20.2	18.79	18.69	18.70	0	19
		1	5	19.27	19.29	19.32	0	20.2	18.78	18.71	18.74	0	19
		3	0	19.51	19.59	19.58	0	20.2	18.53	18.38	18.44	0	19
		3	1	19.56	19.55	19.66	0	20.2	18.52	18.38	18.49	0	19
		3	3	19.53	19.59	19.63	0	20.2	18.52	18.44	18.44	0	19
		6	0	19.63	19.66	19.72	0	20.2	18.39	18.30	18.38	0	19
	64QAM	1	0	19.23	19.25	19.41	0	20.2	18.78	18.70	18.62	0	19
		1	3	19.26	19.25	19.25	0	20.2	18.75	18.65	18.63	0	19
		1	5	19.26	19.25	19.25	0	20.2	18.67	18.64	18.63	0	19
		3	0	19.67	19.65	19.25	0	20.2	18.39	18.34	18.39	0	19
		3	1	19.68	19.65	19.30	0	20.2	18.40	18.40	18.37	0	19
		3	3	19.68	19.64	19.30	0	20.2	18.40	18.39	18.38	0	19
		6	0	19.78	19.79	19.34	0	20.2	18.33	18.28	18.28	0	19

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	24.77	24.80	24.97	0	25	21.60	21.60	21.76	0	22
		1	49	24.80	24.88	25.00	0	25	21.62	21.67	21.85	0	22
		1	99	24.52	24.84	24.71	0	25	21.55	21.65	21.70	0	22
		50	0	23.78	23.97	23.83	1	24	21.60	21.61	21.64	0	22
		50	24	23.80	24.00	23.85	1	24	21.61	21.62	21.83	0	22
		50	50	23.73	23.95	23.84	1	24	21.56	21.60	21.60	0	22
		100	0	23.78	24.00	23.93	1	24	21.60	21.64	21.90	0	22
	16QAM	1	0	24.00	24.00	24.00	1	24	22.00	22.00	22.00	0	22
		1	49	24.00	24.00	24.00	1	24	21.86	22.00	21.96	0	22
		1	99	24.00	24.00	24.00	1	24	21.92	22.00	21.98	0	22
		50	0	22.96	23.00	23.00	2	23	21.63	21.81	21.64	0	22
		50	24	22.82	23.00	23.00	2	23	21.56	21.80	21.62	0	22
		50	50	22.64	23.00	23.00	2	23	21.56	21.73	21.61	0	22
		100	0	22.69	23.00	23.00	2	23	21.61	21.86	21.68	0	22
	64QAM	1	0	22.91	23.00	23.00	2	23	21.76	21.99	21.87	0	22
		1	49	22.60	23.00	23.00	2	23	21.62	21.93	21.77	0	22
		1	99	22.49	23.00	23.00	2	23	21.65	21.87	21.75	0	22
		50	0	21.98	22.00	22.00	3	22	21.00	21.05	21.00	0	22
		50	24	21.91	22.00	22.00	3	22	21.00	21.04	21.00	0	22
		50	50	21.90	22.00	22.00	3	22	21.00	21.01	21.00	0	22
		100	0	21.91	22.00	22.00	3	22	21.00	21.09	21.00	0	22

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	24.79	25.00	24.97	0	25	21.65	21.84	21.75	0	22
		1	37	24.65	24.96	24.87	0	25	21.61	21.84	21.69	0	22
		1	74	24.55	24.84	24.79	0	25	21.56	21.81	21.67	0	22
		36	0	23.88	24.00	23.91	1	24	21.62	21.80	21.69	0	22
		36	20	23.82	24.00	23.92	1	24	21.59	21.83	21.68	0	22
		36	39	23.76	24.00	23.90	1	24	21.52	21.82	21.67	0	22
		75	0	23.84	24.00	23.96	1	24	21.61	21.84	21.73	0	22
	16QAM	1	0	24.00	24.00	24.00	1	24	21.85	22.00	21.94	0	22
		1	37	24.00	24.00	24.00	1	24	21.81	22.00	21.93	0	22
		1	74	23.91	24.00	24.00	1	24	21.79	22.00	21.94	0	22
		36	0	23.00	23.00	23.00	2	23	21.61	21.82	21.70	0	22
		36	20	22.97	23.00	23.00	2	23	21.59	21.84	21.69	0	22
		36	39	22.94	23.00	23.00	2	23	21.52	21.85	21.67	0	22
		75	0	22.97	23.00	23.00	2	23	21.61	21.85	21.73	0	22
	64QAM	1	0	23.00	23.00	23.00	2	23	21.93	22.00	21.95	0	22
		1	37	23.00	23.00	23.00	2	23	21.88	22.00	21.87	0	22
		1	74	23.00	23.00	23.00	2	23	21.78	22.00	21.91	0	22
		36	0	22.00	22.00	22.00	3	22	21.00	21.06	21.00	0	22
		36	20	22.00	22.00	22.00	3	22	21.00	21.06	21.00	0	22
		36	39	22.00	22.00	22.00	3	22	21.00	21.06	21.00	0	22
		75	0	22.00	22.00	22.00	3	22	21.00	21.06	21.00	0	22

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	24.92	25.00	25.00	0	25	21.72	21.89	21.76	0	22
		1	25	24.86	25.00	24.98	0	25	21.75	21.85	21.74	0	22
		1	49	24.74	25.00	25.00	0	25	21.66	21.85	21.85	0	22
		25	0	23.92	24.00	24.00	1	24	21.67	21.85	21.72	0	22
		25	12	23.90	24.00	24.00	1	24	21.65	21.84	21.72	0	22
		25	25	23.86	24.00	24.00	1	24	21.60	21.87	21.74	0	22
		50	0	23.86	24.00	23.99	1	24	21.59	21.87	21.74	0	22
	16QAM	1	0	24.00	24.00	24.00	1	24	21.91	22.00	22.00	0	22
		1	25	24.00	24.00	24.00	1	24	21.92	22.00	22.00	0	22
		1	49	24.00	24.00	24.00	1	24	21.88	22.00	22.00	0	22
		25	0	23.00	23.00	23.00	2	23	21.67	21.88	21.74	0	22
		25	12	23.00	23.00	23.00	2	23	21.66	21.87	21.73	0	22
		25	25	23.00	23.00	23.00	2	23	21.61	21.90	21.75	0	22
		50	0	23.00	23.00	23.00	2	23	21.60	21.82	21.74	0	22
	64QAM	1	0	23.00	23.00	23.00	2	23	21.81	22.00	21.91	0	22
		1	25	23.00	23.00	23.00	2	23	21.77	22.00	21.90	0	22
		1	49	23.00	23.00	23.00	2	23	21.75	21.97	21.92	0	22
		25	0	22.00	22.00	22.00	3	22	21.00	21.11	21.00	0	22
		25	12	22.00	22.00	22.00	3	22	21.00	21.11	21.00	0	22
		25	25	22.00	22.00	22.00	3	22	21.00	21.13	21.00	0	22
		50	0	22.00	22.00	22.00	3	22	21.00	21.13	21.00	0	22

LTE Band 66 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			MPR	Tune-up Limit	Power Mode B (dBm)			MPR	Tune-up Limit
				131997	132322	132647			131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	24.86	25.00	24.84	0	25	21.69	21.84	21.81	0	22
		1	12	24.86	25.00	24.80	0	25	21.69	21.80	21.77	0	22
		1	24	24.77	25.00	24.90	0	25	21.71	21.87	21.81	0	22
		12	0	23.78	24.00	23.88	1	24	21.52	21.66	21.65	0	22
		12	7	23.85	24.00	23.88	1	24	21.59	21.67	21.65	0	22
		12	13	23.84	24.00	23.88	1	24	21.59	21.68	21.65	0	22
		25	0	23.81	24.00	23.93	1	24	21.62	21.71	21.68	0	22
	16QAM	1	0	24.00	24.00	24.00	1	24	22.00	22.00	22.00	0	22
		1	12	24.00	24.00	24.00	1	24	22.00	22.00	22.00	0	22
		1	24	24.00	24.00	24.00	1	24	22.00	22.00	22.00	0	22
		12	0	22.86	23.00	23.00	2	23	21.45	21.63	21.60	0	22
		12	7	22.89	23.00	23.00	2	23	21.55	21.62	21.62	0	22
		12	13	22.90	23.00	23.00	2	23	21.53	21.62	21.62	0	22
		25	0	22.96	23.00	23.00	2	23	21.61	21.67	21.61	0	22
	64QAM	1	0	23.00	23.00	23.00	2	23	21.82	22.00	21.94	0	22
		1	12	23.00	23.00	23.00	2	23	21.87	22.00	21.93	0	22
		1	24	23.00	23.00	23.00	2	23	21.87	22.00	22.00	0	22
		12	0	22.00	22.00	22.00	3	22	21.00	21.00	21.00	0	22
		12	7	22.00	22.00	22.00	3	22	21.00	21.00	21.00	0	22
		12	13	22.00	22.00	22.00	3	22	21.00	21.00	21.00	0	22
		25	0	22.00	22.00	22.00	3	22	21.00	21.00	21.00	0	22

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			MPR	Tune-up Limit	Power Mode B (dBm)			MPR	Tune-up Limit
				131987	132322	132657			131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	24.00	24.00	24.20	0	25	21.55	21.68	21.65	0	22
		1	8	24.00	24.00	24.12	0	25	21.52	21.71	21.72	0	22
		1	14	24.00	24.00	24.09	0	25	21.58	21.67	21.66	0	22
		8	0	23.00	23.00	23.13	1	24	21.39	21.54	21.45	0	22
		8	4	23.00	23.00	23.04	1	24	21.37	21.53	21.44	0	22
		8	7	23.00	23.00	23.05	1	24	21.36	21.55	21.46	0	22
		15	0	23.00	23.00	23.14	1	24	21.46	21.61	21.53	0	22
	16QAM	1	0	23.18	23.17	23.45	1	24	21.73	21.90	21.82	0	22
		1	8	23.20	23.26	23.37	1	24	21.76	21.99	21.89	0	22
		1	14	23.19	23.20	23.43	1	24	21.81	21.93	21.88	0	22
		8	0	22.00	22.00	22.15	2	23	21.35	21.51	21.43	0	22
		8	4	22.00	22.00	22.08	2	23	21.32	21.51	21.43	0	22
		8	7	22.00	22.00	22.08	2	23	21.33	21.49	21.43	0	22
		15	0	22.00	22.00	22.12	2	23	21.35	21.52	21.44	0	22
	64QAM	1	0	22.19	22.21	22.42	2	23	21.65	21.77	21.73	0	22
		1	8	22.17	22.17	22.43	2	23	21.64	21.86	21.80	0	22
		1	14	22.16	22.09	22.41	2	23	21.55	21.76	21.81	0	22
		8	0	21.00	21.00	21.13	3	22	21.00	21.00	21.00	0	22
		8	4	21.00	21.00	21.08	3	22	21.00	21.00	21.00	0	22
		8	7	21.00	21.00	21.06	3	22	21.00	21.00	21.00	0	22
		15	0	21.00	21.00	21.14	3	22	21.00	21.00	21.00	0	22

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			MPR	Tune-up Limit	Power Mode B (dBm)			MPR	Tune-up Limit
				131979	132322	132665			131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	24.00	24.21	24.49	0	25	21.63	21.79	21.66	0	22
		1	3	24.32	24.19	24.36	0	25	21.61	21.80	21.65	0	22
		1	5	24.31	24.13	24.29	0	25	21.55	21.82	21.70	0	22
		3	0	24.21	24.13	24.27	0	25	21.37	21.56	21.54	0	22
		3	1	24.21	24.13	24.28	0	25	21.37	21.52	21.46	0	22
		3	3	24.20	24.14	24.28	0	25	21.33	21.51	21.47	0	22
		6	0	24.00	24.00	24.00	1	24	21.27	21.43	21.41	0	22
	16QAM	1	0	23.57	23.50	23.70	1	24	21.79	21.98	21.80	0	22
		1	3	23.52	23.50	23.62	1	24	21.76	21.97	21.76	0	22
		1	5	23.49	23.46	23.60	1	24	21.79	21.95	21.85	0	22
		3	0	23.38	23.33	23.51	1	24	21.48	21.70	21.53	0	22
		3	1	23.39	23.32	23.50	1	24	21.45	21.65	21.44	0	22
		3	3	23.39	23.29	23.50	1	24	21.51	21.70	21.43	0	22
		6	0	23.00	23.00	23.00	2	23	21.44	21.62	21.35	0	22
	64QAM	1	0	22.46	22.43	22.77	2	23	21.74	21.82	21.80	0	22
		1	3	22.41	22.42	22.62	2	23	21.65	21.80	21.75	0	22
		1	5	22.35	22.40	22.64	2	23	21.72	21.88	21.87	0	22
		3	0	22.33	22.34	22.57	2	23	21.43	21.59	21.49	0	22
		3	1	22.31	22.37	22.54	2	23	21.40	21.61	21.47	0	22
		3	3	22.32	22.36	22.55	2	23	21.42	21.59	21.48	0	22
		6	0	22.00	22.00	22.00	3	22	21.00	21.00	21.00	0	22

LTE Band 66 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	21.84	21.96	22.02	0	22.5	21.84	21.96	22.02	0	22.5
		1	49	21.83	22.00	22.50	0	22.5	21.83	22.00	22.50	0	22.5
		1	99	21.82	21.91	21.83	0	22.5	21.82	21.91	21.83	0	22.5
		50	0	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		50	24	21.40	21.40	21.40	0.5	22	21.40	21.40	21.40	0.5	22
		50	50	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		100	0	21.00	21.00	21.02	0.5	22	21.00	21.00	21.02	0.5	22
	16QAM	1	0	21.22	21.30	21.39	0.5	22	21.22	21.30	21.39	0.5	22
		1	49	21.24	21.31	21.26	0.5	22	21.24	21.31	21.26	0.5	22
		1	99	21.23	21.37	21.33	0.5	22	21.23	21.37	21.33	0.5	22
		50	0	20.03	20.06	20.05	1.5	21	20.03	20.06	20.05	1.5	21
		50	24	20.03	20.08	20.09	1.5	21	20.03	20.08	20.09	1.5	21
		50	50	20.00	20.10	20.10	1.5	21	20.00	20.10	20.10	1.5	21
		100	0	20.08	20.12	20.16	1.5	21	20.08	20.12	20.16	1.5	21
	64QAM	1	0	20.06	20.16	20.30	1.5	21	20.06	20.16	20.30	1.5	21
		1	49	20.19	20.19	20.24	1.5	21	20.19	20.19	20.24	1.5	21
		1	99	20.16	20.32	20.24	1.5	21	20.16	20.32	20.24	1.5	21
		50	0	19.17	19.18	19.18	2.5	20	19.17	19.18	19.18	2.5	20
		50	24	19.16	19.19	19.21	2.5	20	19.16	19.19	19.21	2.5	20
		50	50	19.05	19.22	19.23	2.5	20	19.05	19.22	19.23	2.5	20
		100	0	19.20	19.24	19.29	2.5	20	19.20	19.24	19.29	2.5	20

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	21.80	21.93	21.97	0	22.5	21.80	21.93	21.97	0	22.5
		1	37	21.83	21.91	21.98	0	22.5	21.83	21.91	21.98	0	22.5
		1	74	21.69	21.92	21.89	0	22.5	21.69	21.92	21.89	0	22.5
		36	0	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		36	20	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		36	39	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		75	0	21.00	21.00	21.03	0.5	22	21.00	21.00	21.03	0.5	22
	16QAM	1	0	21.06	21.25	21.22	0.5	22	21.06	21.25	21.22	0.5	22
		1	37	21.14	21.27	21.31	0.5	22	21.14	21.27	21.31	0.5	22
		1	74	21.00	21.33	21.20	0.5	22	21.00	21.33	21.20	0.5	22
		36	0	21.00	20.05	20.11	1.5	21	21.00	20.05	20.11	1.5	21
		36	20	20.02	20.07	20.12	1.5	21	20.02	20.07	20.12	1.5	21
		36	39	20.02	20.08	20.12	1.5	21	20.02	20.08	20.12	1.5	21
		75	0	20.04	20.08	20.15	1.5	21	20.04	20.08	20.15	1.5	21
	64QAM	1	0	20.27	20.38	20.42	1.5	21	20.27	20.38	20.42	1.5	21
		1	37	20.37	20.41	20.34	1.5	21	20.37	20.41	20.34	1.5	21
		1	74	20.22	20.43	20.31	1.5	21	20.22	20.43	20.31	1.5	21
		36	0	19.13	19.16	19.24	2.5	20	19.13	19.16	19.24	2.5	20
		36	20	19.16	19.20	19.26	2.5	20	19.16	19.20	19.26	2.5	20
		36	39	19.16	19.21	19.26	2.5	20	19.16	19.21	19.26	2.5	20
		75	0	19.16	19.20	19.26	2.5	20	19.16	19.20	19.26	2.5	20

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	21.95	22.06	22.15	0	22.5	21.95	22.06	22.15	0	22.5
		1	25	21.90	21.98	22.05	0	22.5	21.90	21.98	22.05	0	22.5
		1	49	21.95	22.02	22.02	0	22.5	21.95	22.02	22.02	0	22.5
		25	0	21.00	21.01	21.12	0.5	22	21.00	21.01	21.12	0.5	22
		25	12	21.00	21.01	21.10	0.5	22	21.00	21.01	21.10	0.5	22
		25	25	21.00	21.04	21.07	0.5	22	21.00	21.04	21.07	0.5	22
		50	0	21.00	21.01	21.07	0.5	22	21.00	21.01	21.07	0.5	22
	16QAM	1	0	21.13	21.31	21.36	0.5	22	21.13	21.31	21.36	0.5	22
		1	25	21.20	21.28	21.35	0.5	22	21.20	21.28	21.35	0.5	22
		1	49	21.27	21.36	21.32	0.5	22	21.27	21.36	21.32	0.5	22
		25	0	20.05	20.08	20.19	1.5	21	20.05	20.08	20.19	1.5	21
		25	12	20.06	20.08	20.18	1.5	21	20.06	20.08	20.18	1.5	21
		25	25	20.10	20.11	20.20	1.5	21	20.10	20.11	20.20	1.5	21
		50	0	20.08	20.09	20.19	1.5	21	20.08	20.09	20.19	1.5	21
	64QAM	1	0	20.22	20.36	20.47	1.5	21	20.22	20.36	20.47	1.5	21
		1	25	20.24	20.37	20.40	1.5	21	20.24	20.37	20.40	1.5	21
		1	49	20.28	20.38	20.34	1.5	21	20.28	20.38	20.34	1.5	21
		25	0	19.13	19.26	19.31	2.5	20	19.13	19.26	19.31	2.5	20
		25	12	19.12	19.27	19.27	2.5	20	19.12	19.27	19.27	2.5	20
		25	25	19.16	19.30	19.26	2.5	20	19.16	19.30	19.26	2.5	20
		50	0	19.13	19.25	19.26	2.5	20	19.13	19.25	19.26	2.5	20

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.92	22.03	22.13	0	22.5	21.92	22.03	22.13	0	22.5
		1	12	21.94	21.98	22.01	0	22.5	21.94	21.98	22.01	0	22.5
		1	24	21.92	21.97	21.92	0	22.5	21.92	21.97	21.92	0	22.5
		12	0	21.00	21.00	21.02	0.5	22	21.00	21.00	21.02	0.5	22
		12	7	21.00	21.00	21.01	0.5	22	21.00	21.00	21.01	0.5	22
		12	13	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		25	0	21.00	21.00	21.06	0.5	22	21.00	21.00	21.06	0.5	22
	16QAM	1	0	21.24	21.34	21.50	0.5	22	21.24	21.34	21.50	0.5	22
		1	12	21.28	21.36	21.49	0.5	22	21.28	21.36	21.49	0.5	22
		1	24	21.36	21.40	21.43	0.5	22	21.36	21.40	21.43	0.5	22
		12	0	21.00	21.00	20.03	1.5	21	21.00	21.00	20.03	1.5	21
		12	7	21.00	21.00	20.00	1.5	21	21.00	21.00	20.00	1.5	21
		12	13	21.00	21.00	21.00	1.5	21	21.00	21.00	21.00	1.5	21
		25	0	21.00	21.00	20.07	1.5	21	21.00	21.00	20.07	1.5	21
	64QAM	1	0	20.19	20.42	20.49	1.5	21	20.19	20.42	20.49	1.5	21
		1	12	20.29	20.38	20.45	1.5	21	20.29	20.38	20.45	1.5	21
		1	24	20.37	20.45	20.43	1.5	21	20.37	20.45	20.43	1.5	21
		12	0	19.03	19.13	19.24	2.5	20	19.03	19.13	19.24	2.5	20
		12	7	19.07	19.14	19.21	2.5	20	19.07	19.14	19.21	2.5	20
		12	13	19.07	19.17	19.18	2.5	20	19.07	19.17	19.18	2.5	20
		25	0	19.05	19.14	19.20	2.5	20	19.05	19.14	19.20	2.5	20

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987	132322	132657	MPR	Tune-up Limit	131987	132322	132657	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	21.86	22.00	22.07	0	22.5	21.86	22.00	22.07	0	22.5
		1	8	21.92	22.03	22.07	0	22.5	21.92	22.03	22.07	0	22.5
		1	14	21.92	22.00	21.97	0	22.5	21.92	22.00	21.97	0	22.5
		8	0	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		8	4	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		8	7	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
		15	0	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
	16QAM	1	0	21.09	21.19	21.25	0.5	22	21.09	21.19	21.25	0.5	22
		1	8	21.14	21.27	21.23	0.5	22	21.14	21.27	21.23	0.5	22
		1	14	21.14	21.20	21.21	0.5	22	21.14	21.20	21.21	0.5	22
		8	0	21.00	21.00	21.00	1.5	21	21.00	21.00	21.00	1.5	21
		8	4	21.00	21.00	21.00	1.5	21	21.00	21.00	21.00	1.5	21
		8	7	21.00	21.00	21.00	1.5	21	21.00	21.00	21.00	1.5	21
		15	0	21.00	21.00	20.00	1.5	21	21.00	21.00	20.00	1.5	21
	64QAM	1	0	20.01	20.14	20.36	1.5	21	20.01	20.14	20.36	1.5	21
		1	8	20.04	20.25	20.31	1.5	21	20.04	20.25	20.31	1.5	21
		1	14	20.15	20.19	20.27	1.5	21	20.15	20.19	20.27	1.5	21
		8	0	19.00	19.00	19.06	2.5	20	19.00	19.00	19.06	2.5	20
		8	4	19.00	19.00	19.01	2.5	20	19.00	19.00	19.01	2.5	20
		8	7	19.00	19.00	19.01	2.5	20	19.00	19.00	19.01	2.5	20
		15	0	19.00	19.02	19.07	2.5	20	19.00	19.02	19.07	2.5	20

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	22.10	22.16	22.15	0	22.5	22.10	22.16	22.15	0	22.5
		1	3	21.99	22.12	22.09	0	22.5	21.99	22.12	22.09	0	22.5
		1	5	21.98	22.10	22.06	0	22.5	21.98	22.10	22.06	0	22.5
		3	0	21.77	21.88	21.79	0	22.5	21.77	21.88	21.79	0.5	22
		3	1	21.71	21.80	21.80	0	22.5	21.71	21.80	21.80	0.5	22
		3	3	21.67	21.83	21.82	0	22.5	21.67	21.83	21.82	0.5	22
		6	0	21.00	21.00	21.00	0.5	22	21.00	21.00	21.00	0.5	22
	16QAM	1	0	21.13	21.30	21.38	0.5	22	21.13	21.30	21.38	0.5	22
		1	3	21.14	21.31	21.35	0.5	22	21.14	21.31	21.35	0.5	22
		1	5	21.16	21.35	21.36	0.5	22	21.16	21.35	21.36	0.5	22
		3	0	20.92	21.00	21.00	1.5	21	20.92	21.00	21.00	1.5	21
		3	1	20.92	21.00	20.99	1.5	21	20.92	21.00	20.99	1.5	21
		3	3	20.87	21.00	20.97	1.5	21	20.87	21.00	20.97	1.5	21
		6	0	20.00	20.00	20.00	1.5	21	20.00	20.00	20.00	1.5	21
	64QAM	1	0	20.43	20.36	20.53	1.5	21	20.43	20.36	20.53	1.5	21
		1	3	20.44	20.33	20.46	1.5	21	20.44	20.33	20.46	1.5	21
		1	5	20.37	20.37	20.50	1.5	21	20.37	20.37	20.50	1.5	21
		3	0	19.97	20.00	20.00	2.5	20	19.97	20.00	20.00	2.5	20
		3	1	19.97	20.00	20.00	2.5	20	19.97	20.00	20.00	2.5	20
		3	3	19.97	20.00	20.00	2.5	20	19.97	20.00	20.00	2.5	20
		6	0	19.00	19.00	19.04	2.5	20	19.00	19.00	19.04	2.5	20

LTE Band 71 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				133297	MPR	Tune-up Limit	133297	MPR	Tune-up Limit
				680.5 MHz			680.5 MHz		
20 MHz	QPSK	1	0	24.50	0	25.5	24.50	0	25.5
		1	49	24.50	0	25.5	24.50	0	25.5
		1	99	24.50	0	25.5	24.50	0	25.5
		50	0	23.50	1	24.5	23.50	1	24.5
		50	24	23.50	1	24.5	23.50	1	24.5
		50	50	23.50	1	24.5	23.50	1	24.5
		100	0	23.50	1	24.5	23.50	1	24.5
	16QAM	1	0	23.82	1	24.5	23.82	1	24.5
		1	49	23.89	1	24.5	23.89	1	24.5
		1	99	23.87	1	24.5	23.87	1	24.5
		50	0	22.50	2	23.5	22.50	2	23.5
		50	24	22.50	2	23.5	22.50	2	23.5
		50	50	22.50	2	23.5	22.50	2	23.5
		100	0	22.62	2	23.5	22.62	2	23.5
	64QAM	1	0	23.08	2	23.5	23.08	2	23.5
		1	49	23.12	2	23.5	23.12	2	23.5
		1	99	23.15	2	23.5	23.15	2	23.5
		50	0	21.68	3	22.5	21.68	3	22.5
		50	24	21.73	3	22.5	21.73	3	22.5
		50	50	21.66	3	22.5	21.66	3	22.5
		100	0	21.89	3	22.5	21.89	3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				133297	MPR	Tune-up Limit	133297	MPR	Tune-up Limit
				680.5 MHz			680.5 MHz		
15 MHz	QPSK	1	0	24.50	0	25.5	24.14	0	25.5
		1	37	24.50	0	25.5	24.15	0	25.5
		1	74	24.50	0	25.5	24.11	0	25.5
		36	0	23.50	1	24.5	23.27	1	24.5
		36	20	23.50	1	24.5	23.19	1	24.5
		36	39	23.50	1	24.5	23.14	1	24.5
		75	0	23.50	1	24.5	23.27	1	24.5
	16QAM	1	0	23.65	1	24.5	23.65	1	24.5
		1	37	23.62	1	24.5	23.62	1	24.5
		1	74	23.67	1	24.5	23.67	1	24.5
		36	0	22.50	2	23.5	22.39	2	23.5
		36	20	22.50	2	23.5	22.29	2	23.5
		36	39	22.50	2	23.5	22.25	2	23.5
		75	0	22.50	2	23.5	22.37	2	23.5
	64QAM	1	0	22.89	2	23.5	22.89	2	23.5
		1	37	22.87	2	23.5	22.87	2	23.5
		1	74	22.88	2	23.5	22.88	2	23.5
		36	0	21.66	3	22.5	21.66	3	22.5
		36	20	21.59	3	22.5	21.59	3	22.5
		36	39	21.56	3	22.5	21.56	3	22.5
		75	0	21.65	3	22.5	21.65	3	22.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				133172	133297	133422	MPR	Tune-up Limit	133172	133297	133422	MPR	Tune-up Limit
				668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	QPSK	1	0	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		1	25	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		1	49	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		25	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		25	12	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		25	25	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		50	0	23.52	23.50	23.50	1	24.5	23.52	23.50	23.50	1	24.5
	16QAM	1	0	23.91	23.84	23.74	1	24.5	23.91	23.84	23.74	1	24.5
		1	25	23.88	23.70	23.71	1	24.5	23.88	23.70	23.71	1	24.5
		1	49	23.77	23.63	23.75	1	24.5	23.77	23.63	23.75	1	24.5
		25	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		25	12	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		25	25	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		50	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
	64QAM	1	0	23.20	23.09	23.03	2	23.5	23.20	23.09	23.03	2	23.5
		1	25	23.11	23.03	22.98	2	23.5	23.11	23.03	22.98	2	23.5
		1	49	23.03	22.92	22.95	2	23.5	23.03	22.92	22.95	2	23.5
		25	0	21.85	21.77	21.74	3	22.5	21.85	21.77	21.74	3	22.5
		25	12	21.88	21.75	21.71	3	22.5	21.88	21.75	21.71	3	22.5
		25	25	21.81	21.72	21.71	3	22.5	21.81	21.72	21.71	3	22.5
		50	0	21.96	21.79	21.78	3	22.5	21.96	21.79	21.78	3	22.5

LTE Band 71 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133147	133297	133447	MPR	Tune-up Limit	133147	133297	133447	MPR	Tune-up Limit
				665.5 MHz	680.5 MHz	695.5 MHz			665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	QPSK	1	0	24.56	24.50	24.53	0	25.5	24.56	24.50	24.53	0	25.5
		1	12	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		1	24	24.50	24.50	24.53	0	25.5	24.50	24.50	24.53	0	25.5
		12	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		12	7	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		12	13	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		25	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
	16QAM	1	0	24.06	23.85	23.91	1	24.5	24.06	23.85	23.91	1	24.5
		1	12	23.97	23.77	23.86	1	24.5	23.97	23.77	23.86	1	24.5
		1	24	24.02	23.75	23.91	1	24.5	24.02	23.75	23.91	1	24.5
		12	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		12	7	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		12	13	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		25	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
	64QAM	1	0	23.27	22.96	22.98	2	23.5	23.27	22.96	22.98	2	23.5
		1	12	23.20	22.92	22.89	2	23.5	23.20	22.92	22.89	2	23.5
		1	24	23.29	22.95	22.97	2	23.5	23.29	22.95	22.97	2	23.5
		12	0	21.66	21.52	21.56	3	22.5	21.66	21.52	21.56	3	22.5
		12	7	21.60	21.50	21.54	3	22.5	21.60	21.50	21.54	3	22.5
		12	13	21.61	21.50	21.53	3	22.5	21.61	21.50	21.53	3	22.5
		25	0	21.77	21.60	21.57	3	22.5	21.77	21.60	21.57	3	22.5

LTE Band 71 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				133297	MPR	Tune-up Limit	133297	MPR	Tune-up Limit
				680.5 MHz			680.5 MHz		
20 MHz	QPSK	1	0	23.69	0	24.5	23.69	0	24.5
		1	49	23.80	0	24.5	23.80	0	24.5
		1	99	23.77	0	24.5	23.77	0	24.5
		50	0	22.68	1	23.5	22.68	1	23.5
		50	24	22.70	1	23.5	22.70	1	23.5
		50	50	22.57	1	23.5	22.57	1	23.5
		100	0	22.64	1	23.5	22.64	1	23.5
	16QAM	1	0	23.13	1	23.5	23.13	1	23.5
		1	49	22.80	1	23.5	22.80	1	23.5
		1	99	23.18	1	23.5	23.18	1	23.5
		50	0	21.77	2	22.5	21.77	2	22.5
		50	24	21.61	2	22.5	21.61	2	22.5
		50	50	21.69	2	22.5	21.69	2	22.5
		100	0	21.75	2	22.5	21.75	2	22.5
	64QAM	1	0	21.95	2	22.5	21.95	2	22.5
		1	49	21.68	2	22.5	21.68	2	22.5
		1	99	22.10	2	22.5	22.10	2	22.5
		50	0	20.83	3	21.5	20.83	3	21.5
		50	24	20.69	3	21.5	20.69	3	21.5
		50	50	20.76	3	21.5	20.76	3	21.5
		100	0	20.82	3	21.5	20.82	3	21.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)			Power Mode B (dBm)		
				133297	MPR	Tune-up Limit	133297	MPR	Tune-up Limit
				680.5 MHz			680.5 MHz		
15 MHz	QPSK	1	0	23.52	0	24.5	23.52	0	24.5
		1	37	23.50	0	24.5	23.50	0	24.5
		1	74	23.63	0	24.5	23.63	0	24.5
		36	0	22.60	1	23.5	22.60	1	23.5
		36	20	22.54	1	23.5	22.54	1	23.5
		36	39	22.50	1	23.5	22.50	1	23.5
		75	0	22.59	1	23.5	22.59	1	23.5
	16QAM	1	0	22.93	1	23.5	22.93	1	23.5
		1	37	22.84	1	23.5	22.84	1	23.5
		1	74	23.03	1	23.5	23.03	1	23.5
		36	0	21.64	2	22.5	21.64	2	22.5
		36	20	21.52	2	22.5	21.52	2	22.5
		36	39	21.55	2	22.5	21.55	2	22.5
		75	0	21.61	2	22.5	21.61	2	22.5
	64QAM	1	0	22.07	2	22.5	22.07	2	22.5
		1	37	21.90	2	22.5	21.90	2	22.5
		1	74	22.08	2	22.5	22.08	2	22.5
		36	0	20.73	3	21.5	20.73	3	21.5
		36	20	20.65	3	21.5	20.65	3	21.5
		36	39	20.63	3	21.5	20.63	3	21.5
		75	0	20.71	3	21.5	20.71	3	21.5

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				133172	133297	133422	MPR	Tune-up Limit	133172	133297	133422	MPR	Tune-up Limit
				668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	QPSK	1	0	23.79	23.79	23.88	0	24.5	23.79	23.79	23.88	0	24.5
		1	25	23.69	23.62	23.78	0	24.5	23.69	23.62	23.78	0	24.5
		1	49	23.56	23.59	23.67	0	24.5	23.56	23.59	23.67	0	24.5
		25	0	22.55	22.62	22.76	1	23.5	22.55	22.62	22.76	1	23.5
		25	12	22.63	22.51	22.73	1	23.5	22.63	22.51	22.73	1	23.5
		25	25	22.58	22.55	22.63	1	23.5	22.58	22.55	22.63	1	23.5
		50	0	22.69	22.56	22.75	1	23.5	22.69	22.56	22.75	1	23.5
	16QAM	1	0	23.06	23.08	23.12	1	23.5	23.06	23.08	23.12	1	23.5
		1	25	23.01	22.86	23.02	1	23.5	23.01	22.86	23.02	1	23.5
		1	49	22.84	22.92	22.94	1	23.5	22.84	22.92	22.94	1	23.5
		25	0	21.60	21.65	21.74	2	22.5	21.60	21.65	21.74	2	22.5
		25	12	21.70	21.56	21.69	2	22.5	21.70	21.56	21.69	2	22.5
		25	25	21.60	21.57	21.61	2	22.5	21.60	21.57	21.61	2	22.5
		50	0	21.77	21.62	21.73	2	22.5	21.77	21.62	21.73	2	22.5
	64QAM	1	0	22.06	22.11	22.14	2	22.5	22.06	22.11	22.14	2	22.5
		1	25	22.00	21.87	22.01	2	22.5	22.00	21.87	22.01	2	22.5
		1	49	21.80	21.94	21.98	2	22.5	21.80	21.94	21.98	2	22.5
		25	0	20.63	20.73	20.80	3	21.5	20.63	20.73	20.80	3	21.5
		25	12	20.75	20.62	20.76	3	21.5	20.75	20.62	20.76	3	21.5
		25	25	20.68	20.68	20.69	3	21.5	20.68	20.68	20.69	3	21.5
		50	0	20.82	20.70	20.78	3	21.5	20.82	20.70	20.78	3	21.5

LTE Band 71 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133147	133297	133447	MPR	Tune-up Limit	133147	133297	133447	MPR	Tune-up Limit
				665.5 MHz	680.5 MHz	695.5 MHz			665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	QPSK	1	0	24.56	24.50	24.53	0	25.5	24.56	24.50	24.53	0	25.5
		1	12	24.50	24.50	24.50	0	25.5	24.50	24.50	24.50	0	25.5
		1	24	24.50	24.50	24.53	0	25.5	24.50	24.50	24.53	0	25.5
		12	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		12	7	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		12	13	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
		25	0	23.50	23.50	23.50	1	24.5	23.50	23.50	23.50	1	24.5
	16QAM	1	0	24.06	23.85	23.91	1	24.5	24.06	23.85	23.91	1	24.5
		1	12	23.97	23.77	23.86	1	24.5	23.97	23.77	23.86	1	24.5
		1	24	24.02	23.75	23.91	1	24.5	24.02	23.75	23.91	1	24.5
		12	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		12	7	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		12	13	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
		25	0	22.50	22.50	22.50	2	23.5	22.50	22.50	22.50	2	23.5
	64QAM	1	0	23.27	22.96	22.98	2	23.5	23.27	22.96	22.98	2	23.5
		1	12	23.20	22.92	22.89	2	23.5	23.20	22.92	22.89	2	23.5
		1	24	23.29	22.95	22.97	2	23.5	23.29	22.95	22.97	2	23.5
		12	0	21.66	21.52	21.56	3	22.5	21.66	21.52	21.56	3	22.5
		12	7	21.60	21.50	21.54	3	22.5	21.60	21.50	21.54	3	22.5
		12	13	21.61	21.50	21.53	3	22.5	21.61	21.50	21.53	3	22.5
		25	0	21.77	21.60	21.57	3	22.5	21.77	21.60	21.57	3	22.5

9.5. LTE 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 WPDK 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

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

Where M_A is defined as follows

$$M_A = \begin{cases} 8.2 & ;0 \le A < 0.025 \\ 9.2 - 40A & ;0.025 \le A < 0.05 \\ 8 - 16A & ;0.05 \le A < 0.25 \\ 4.83 - 3.33A & ;0.25 \le A \le 0.4 \\ 3.83 - 0.83A & ;0.4 \le A \le 1 \end{cases}$$

and M_{IM5} is defined as follows

$$M_{IM5} = \begin{cases} 4.5 & ; \Delta_{IM5} < 1.5 * BW_{Channel\_CA} \\ 6.0 & ; 1.5 * BW_{Channel\_CA} \le \Delta_{IM5} < BW_{Channel\_CA}/2 + \Delta f_{ooB} \\ M_A & ; \Delta_{IM5} \ge BW_{Channel\_CA}/2 + \Delta f_{ooB} \end{cases}$$

Where

$A = N_{RB\_alloc} / N_{RB\_agg}$

$\Delta_{IM5} = \max(\left| F_{C\_agg} - (3*F_{agg\_alloc\_low} - 2*F_{agg\_alloc\_high}) \right|, \left| F_{C\_agg} - (3*F_{agg\_alloc\_high} - 2*F_{agg\_alloc\_low}) \right|)$

$CEIL\{M_A, 0.5\}$ 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 tfor those E-UTRA bands where maximum possible $W_{GAP} \le 42.2$ MHz as follows

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

Where M_N is defined as follows

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

Where $N = N_{RB\_alloc}$ is the number of allocated resource blocks.

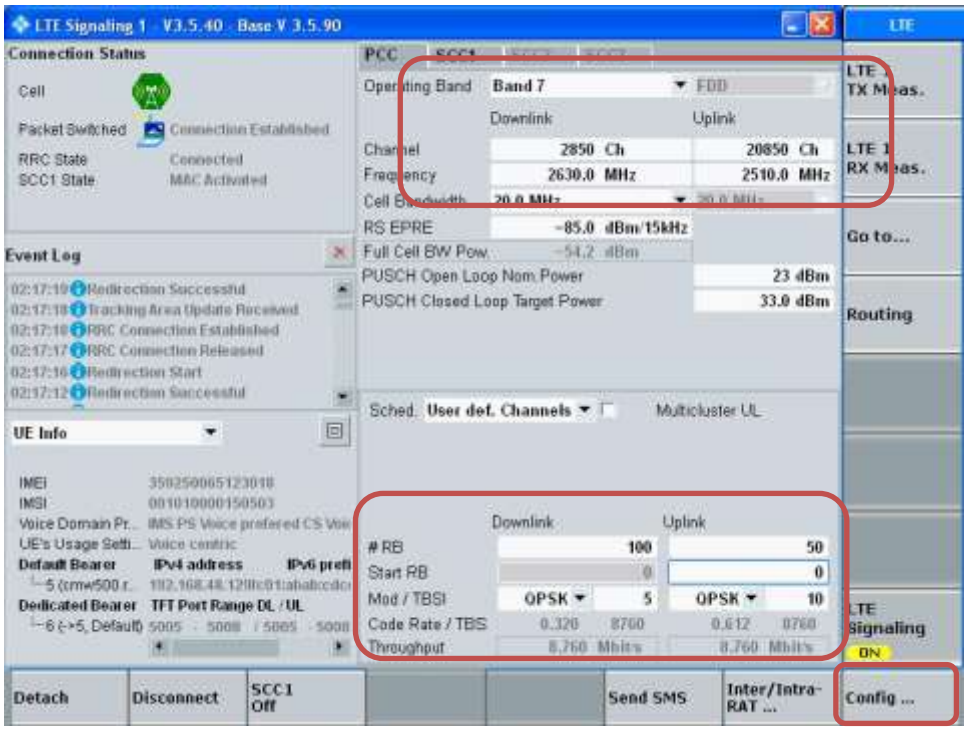
For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

LTE Carrier Aggregation Test Signal Set-up Procedure

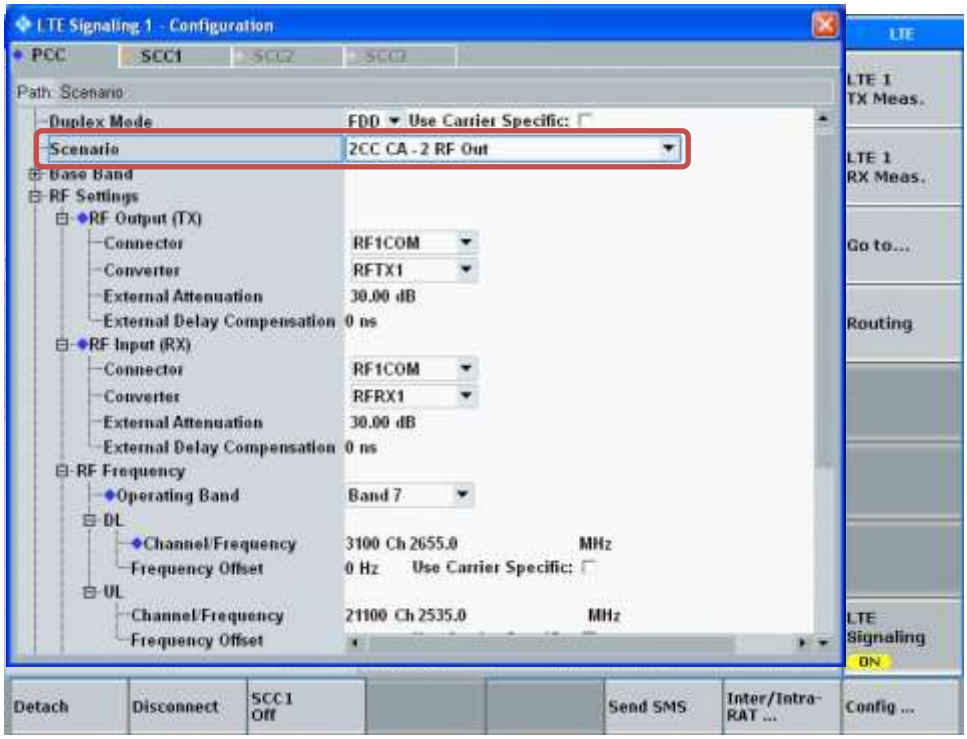
(Use normal LTE set-up procedure in addition with the following steps)

Set to CMW-500 with following parameters:

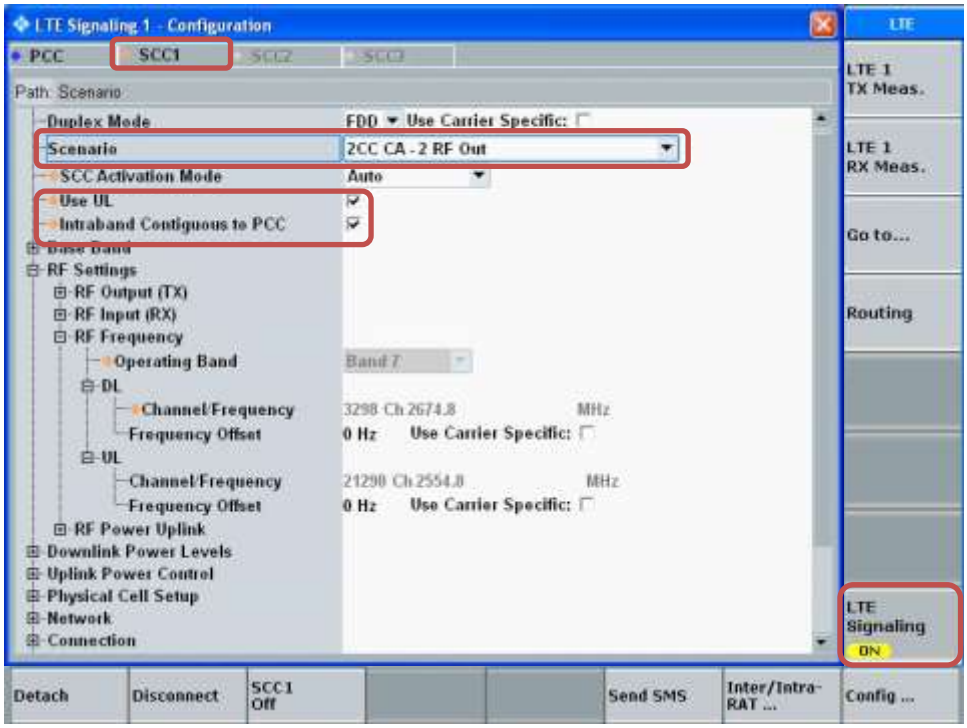
- PCC tab:
  - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth, Uplink RBs
- Go to “Config….”



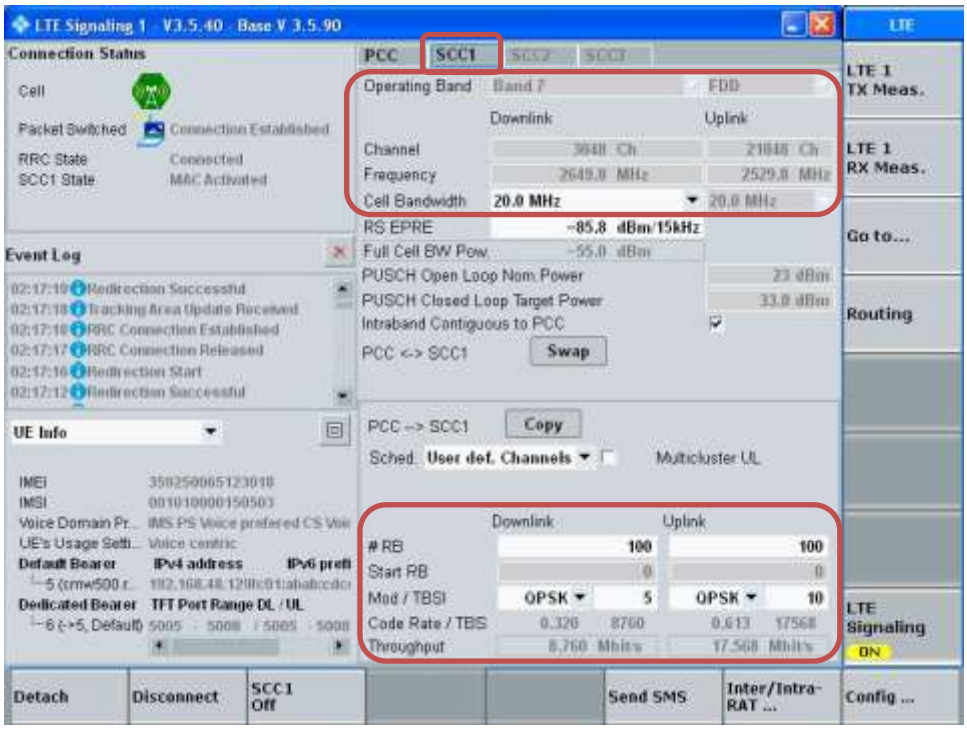
- Go to “Scenario”
- Set to “2CC CA – 2 RF Out”



- 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

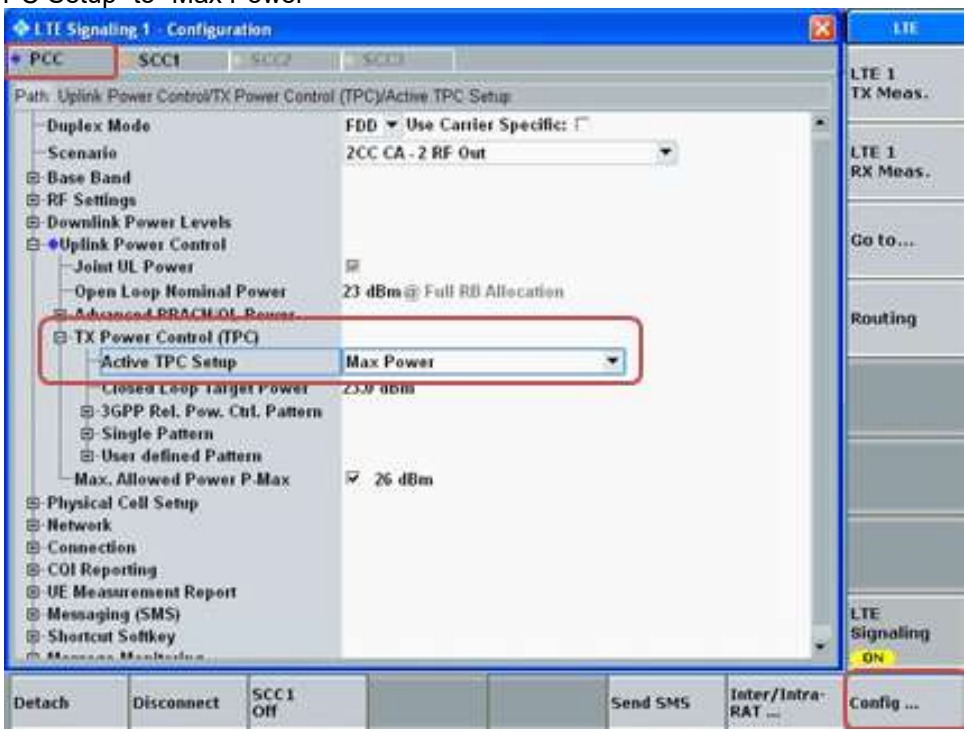


- Select “SCC1” tab
  - Select the testing Cell Bandwidth, Uplink RBs

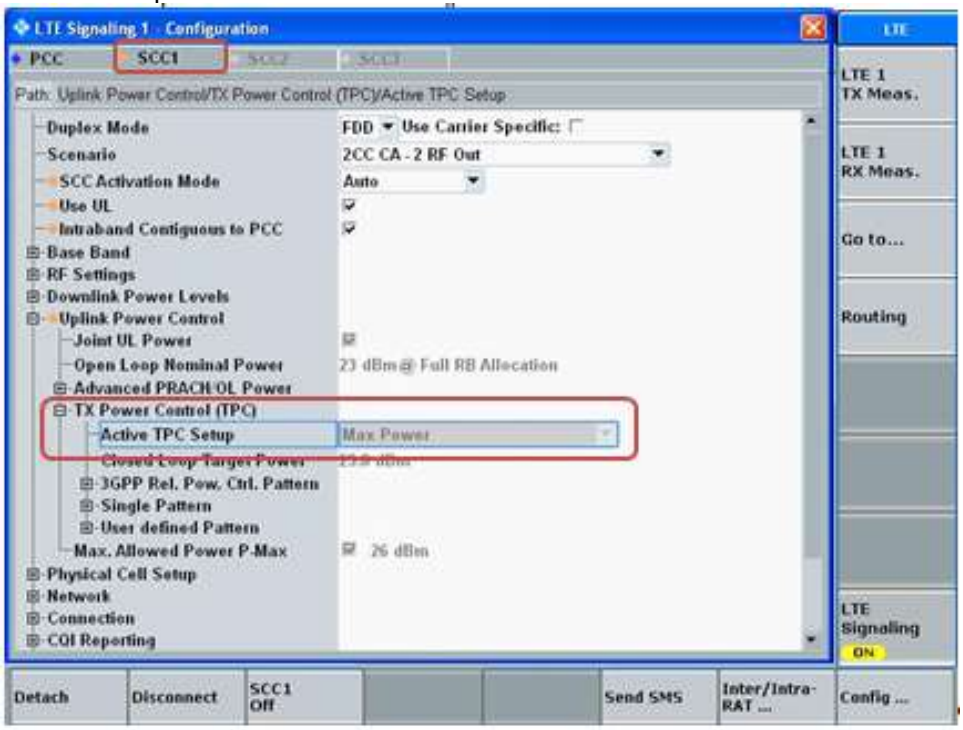


Max Power Setting

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

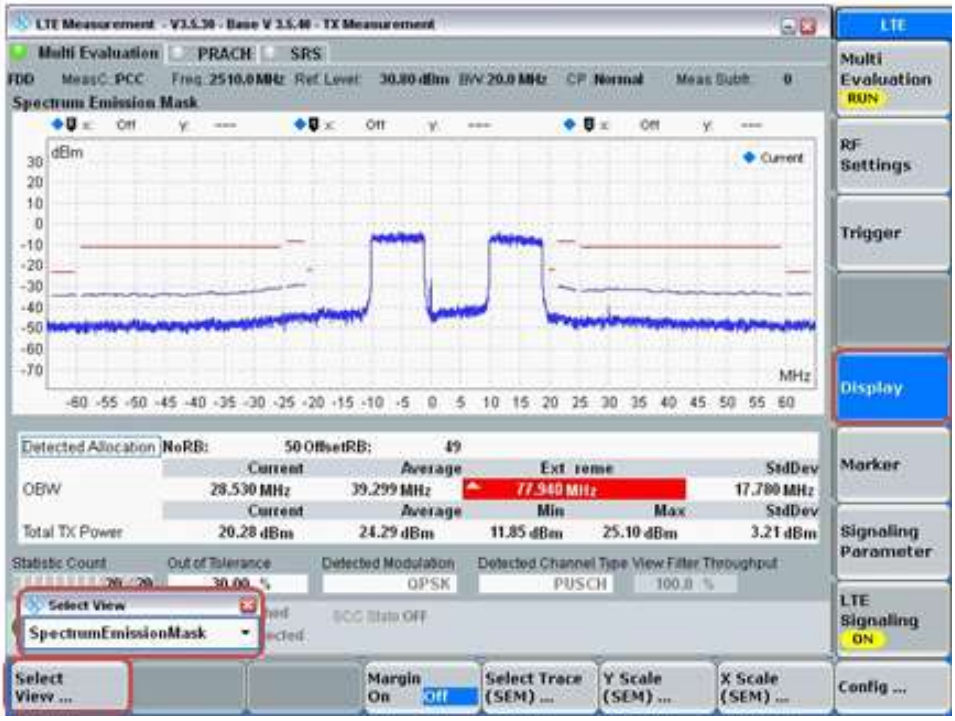


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



View TX Power

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



LTE Up-Link Carrier Aggregation

Maximum Output Power (Tune-up Limit) for LTE UL 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 tune-up limits are provided in table below.

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 ≤ 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

SAR measurement is not required for the 16QAM and 64QAM. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is ≤ ¼ dB higher than the primary mode

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_7C	QPSK	25.00	21.50	19.70	21.50	24.50	21.00	18.00	18.70
CA_41C (PC3)	QPSK	25.00	24.00	21.50	22.50	24.50	24.00	19.50	21.70

LTE CA_7C Measured Results

RF Exposure Conditions	Antenna	E-UTRA CA configuration (BCS)	Modulation	Bands		UL										
				PCC	SCC	PCC				SCC				Standalone (dBm)	PCC+SCC	
				1st	2nd	BW	RB	Offset	Freq	BW	RB	Offset	Freq		Tune-Up Limit (dBm)	CA Power (Total PCC+SCC)	Delta
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	21.4	21.5	20.9	-0.5
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	21.3	21.5	20.9	-0.4
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	21.3	21.5	21.0	-0.3
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	19.7	19.7	19.0	-0.7
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	19.7	19.7	19.1	-0.6
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	19.7	19.7	19.3	-0.4
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	21.0	21.0	20.4	-0.6
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	21.0	21.0	20.5	-0.5
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	21.0	21.0	20.4	-0.6
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	17.6	18.0	17.0	-0.6
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	17.2	18.0	17.0	-0.2
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	17.3	18.0	17.3	0.0

Note(s):
Standalone power is reference from Sec. 9.4 - LTE B7 power.

LTE CA_41C (PC3) Measured Results

RF Exposure Conditions	Antenna	E-UTRA CA configuration (BCS)	Modulation	Bands		UL										
				PCC	SCC	PCC				SCC				Standalone (dBm)	PCC+SCC	
				1st	2nd	BW	RB	Offset	Freq	BW	RB	Offset	Freq		Tune-Up Limit (dBm)	CA Power (Total PCC+SCC)	Delta
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	24.0	24.0	23.30	-0.7
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	23.9	24.0	23.30	-0.6
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	23.9	24.0	23.60	-0.3
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	24.0	24.0	23.40	-0.6
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	24.0	24.0	23.40	-0.6
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	21.1	21.5	20.50	-0.6
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	20.9	21.5	20.20	-0.7
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	20.8	21.5	20.50	-0.3
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	20.9	21.5	20.60	-0.3
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	20.9	21.5	20.50	-0.4
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	24.0	24.0	23.90	-0.1
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	24.0	24.0	23.60	-0.4
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	23.6	24.0	23.60	0.0
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	24.0	24.0	23.80	-0.2
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	24.0	24.0	23.60	-0.4
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	19.5	19.5	19.00	-0.5
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	19.5	19.5	19.00	-0.5
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	19.3	19.5	19.00	-0.3
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	19.5	19.5	19.00	-0.5
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	19.3	19.5	19.10	-0.2

Note(s):
Standalone power is reference from Sec. 9.4 - LTE B41 power.

LTE Down-Link Carrier Aggregation

The tables below show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

Power measurements were performed on the channel with the highest maximum output power from Tune-up Procedure on ANT1 antenna.

When carrier aggregation is limited to downlink only, uplink maximum output power (single carrier) is measured for the supported combinations of downlink carrier aggregation listed in the table below. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs (far right most configuration highlighted in the table below).

Index	2CC	Restriction	Completely Covered by Measurement Superset
Intra-Band Contiguous			
2CC # 1	CA_2C		No
2CC # 2	CA_5B		3CC #61
2CC # 3	CA_7B		No
2CC # 4	CA_7C		No
2CC # 5	CA_12B		3CC #18
2CC # 6	CA_38C		No
2CC # 7	CA_41C		No
2CC # 8	CA_41D		No
2CC # 9	CA_41E		No
2CC # 10	CA_42C		No
2CC # 11	CA_46C	B46 SCC Only	3CC #38
2CC # 12	CA_46D	B46 SCC Only	3CC #39
2CC # 13	CA_46E	B46 SCC Only	B46 DL Only
2CC # 14	CA_66B		3CC #5
2CC # 15	CA_66C		3CC #61
2CC # 16	CA_66D		No
Intra-Band Non-Contiguous			
2CC # 17	CA_2A-2A		3CC #1
2CC # 18	CA_4A-4A		3CC #53
2CC # 19	CA_7A-7A		No
2CC # 20	CA_25A-25A		No
2CC # 21	CA_41A-41A		No
2CC # 22	CA_41A-41C		No
2CC # 23	CA_41A-41C		No
2CC # 24	CA_41A-41D		No
2CC # 25	CA_41C-41C		No
2CC # 26	CA_41C-41D		No
2CC # 27	CA_46A-46A	B46 SCC Only	B46 DL Only
2CC # 28	CA_46A-46C	B46 SCC Only	B46 DL Only
2CC # 29	CA_46A-46D	B46 SCC Only	B46 DL Only
2CC # 30	CA_66A-66A		3CC #27
2CC # 31	CA_66A-66B		No
2CC # 32	CA_66A-66C		No
Inter-Band			
2CC # 33	CA_2A-2A-4A		3CC #1
2CC # 34	CA_2A-2A-4A-4A		No
2CC # 35	CA_2A-2A-5A		3CC #3
2CC # 36	CA_2A-2A-12A		3CC #7
2CC # 37	CA_2A-2A-12B		No
2CC # 38	CA_2A-2A-13A		3CC #9
2CC # 39	CA_2A-2A-14A		3CC #10
2CC # 40	CA_2A-2A-29A	B29 SCC Only	3CC #11
2CC # 41	CA_2A-2A-30A		3CC #12
2CC # 42	CA_2A-2A-46A	B46 SCC Only	No
2CC # 43	CA_2A-2A-46C	B46 SCC Only	No
2CC # 44	CA_2A-2A-46D	B46 SCC Only	No
2CC # 45	CA_2A-2A-66A		3CC #4
2CC # 46	CA_2A-2A-66A-66A		No
2CC # 47	CA_2A-2A-66A-66B		No
2CC # 48	CA_2A-2A-66A-66C		No
2CC # 49	CA_2A-2A-66B		3CC #5
2CC # 50	CA_2A-2A-66C		3CC #6
2CC # 51	CA_2A-2A-71A		No
2CC # 52	CA_2A-4A		3CC #1
2CC # 53	CA_2A-4A		3CC #1
2CC # 54	CA_2A-4A-4A		3CC #13
2CC # 55	CA_2A-5A		3CC #1
2CC # 56	CA_2A-5B		3CC #16
2CC # 57	CA_2A-12A		3CC #17
2CC # 58	CA_2A-12B		3CC #18
2CC # 59	CA_2A-13A		3CC #9
2CC # 60	CA_2A-14A		3CC #10
2CC # 61	CA_2A-17A		No
2CC # 62	CA_2A-29A	B29 SCC Only	3CC #11
2CC # 63	CA_2A-30A		3CC #12
2CC # 64	CA_2A-46A		3CC #37
2CC # 65	CA_2A-46A-46A	B46 SCC Only	No
2CC # 66	CA_2A-46A-46C	B46 SCC Only	No

Index	3CC	Restriction	Completely Covered by Measurement Superset
Inter-Band			
3CC # 1	CA_2A-2A-4A-5A		No
3CC # 2	CA_2A-2A-4A-12A		No
3CC # 3	CA_2A-2A-5A-30A		No
3CC # 4	CA_2A-2A-5A-66A		No
3CC # 5	CA_2A-2A-5A-66B		No
3CC # 6	CA_2A-2A-5A-66C		No
3CC # 7	CA_2A-2A-12A-30A		No
3CC # 8	CA_2A-2A-12A-66A		No
3CC # 9	CA_2A-2A-13A-66A		No
3CC # 10	CA_2A-2A-14A-66A		No
3CC # 11	CA_2A-2A-29A-30A	B29 SCC Only	No
3CC # 12	CA_2A-2A-30A-66A		No
3CC # 13	CA_2A-4A-4A-5A		No
3CC # 14	CA_2A-4A-4A-12A		No
3CC # 15	CA_2A-4A-5A		No
3CC # 16	CA_2A-4A-5B		No
3CC # 17	CA_2A-4A-5B		No
3CC # 18	CA_2A-4A-12A		4CC #2
3CC # 19	CA_2A-4A-12A		4CC #2
3CC # 20	CA_2A-4A-12B		No
3CC # 21	CA_2A-4A-12B		No
3CC # 22	CA_2A-4A-13A		No
3CC # 23	CA_2A-4A-13A		No
3CC # 24	CA_2A-4A-29A	B29 SCC Only	4CC #2
3CC # 25	CA_2A-4A-30A		4CC #2
3CC # 26	CA_2A-4A-71A		No
3CC # 27	CA_2A-4A-71A		No
3CC # 28	CA_2A-5A-30A		4CC #1
3CC # 29	CA_2A-5A-66A		4CC #4
3CC # 30	CA_2A-5A-66A		4CC #4
3CC # 31	CA_2A-5A-66B		No
3CC # 32	CA_2A-5A-66C		No
3CC # 33	CA_2A-46A-66A	B46 SCC Only	No
3CC # 34	CA_2A-46A-66A	B46 SCC Only	No
3CC # 35	CA_2A-46C-66A	B46 SCC Only	No
3CC # 36	CA_2A-46C-66A	B46 SCC Only	No
3CC # 37	CA_2A-46D-66A	B46 SCC Only	No
3CC # 38	CA_2A-5A-66A-66A		4CC #4
3CC # 39	CA_2A-5B-30A		4CC #5
3CC # 40	CA_2A-5B-66A		4CC #5
3CC # 41	CA_2A-5B-66A		4CC #5
3CC # 42	CA_2A-5B-66A-66A		4CC #5
3CC # 43	CA_2A-5B-66C		No
3CC # 44	CA_2A-12A-30A		4CC #6
3CC # 45	CA_2A-12A-66A		4CC #6
3CC # 46	CA_2A-12A-66A		4CC #6
3CC # 47	CA_2A-12A-66A-66A		4CC #6
3CC # 48	CA_2A-12A-66C		No
3CC # 49	CA_2A-13A-46A	B46 SCC Only	No
3CC # 50	CA_2A-13A-46C	B46 SCC Only	No
3CC # 51	CA_2A-13A-46D	B46 SCC Only	No
3CC # 52	CA_2A-13A-66A		No
3CC # 53	CA_2A-13A-66A		No
3CC # 54	CA_2A-13A-66A-66A		No
3CC # 55	CA_2A-13A-66B		No
3CC # 56	CA_2A-13A-66C		No
3CC # 57	CA_2A-14A-30A		4CC #7
3CC # 58	CA_2A-14A-66A		4CC #7
3CC # 59	CA_2A-14A-66A		4CC #7
3CC # 60	CA_2A-14A-66A-66A		4CC #7
3CC # 61	CA_2A-29A-30A	B29 SCC Only	4CC #8
3CC # 62	CA_2A-29A-66A	B29 SCC Only	4CC #8
3CC # 63	CA_2A-29A-66A	B29 SCC Only	4CC #8
3CC # 64	CA_2A-30A-66A		4CC #8
3CC # 65	CA_2A-30A-66A		4CC #8
3CC # 66	CA_2A-30A-66A		4CC #8
3CC # 67	CA_2A-66A-71A		No
3CC # 68	CA_2A-66A-71A		No

Index	4CC	Restriction	Completely Covered by Measurement Superset
Inter-Band			
4CC # 1	CA_2A-4A-5A-30A		No
4CC # 2	CA_2A-4A-12A-30A		No
4CC # 3	CA_2A-4A-29A-30A	B29 SCC Only	No
4CC # 4	CA_2A-5A-30A-66A		No
4CC # 5	CA_2A-5B-30A-66A		No
4CC # 6	CA_2A-12A-30A-66A		No
4CC # 7	CA_2A-14A-30A-66A		No
4CC # 8	CA_2A-29A-30A-66A	B29 SCC Only	No

2CC #	67	CA_2A-46A-46D	B46 SCC Only	No
2CC #	68	CA_2A-46C	B46 SCC Only	2CC #65
2CC #	69	CA_2A-46D	B46 SCC Only	2CC #66
2CC #	70	CA_2A-46E	B46 SCC Only	No
2CC #	71	CA_2A-66A		3CC #53
2CC #	72	CA_2A-66B		3CC #43
2CC #	73	CA_2A-66B		3CC #43
2CC #	74	CA_2A-66C		3CC #44
2CC #	75	CA_2A-66C		3CC #44
2CC #	76	CA_2A-66A-66A		3CC #27
2CC #	77	CA_2A-66A-66B		No
2CC #	78	CA_2A-66A-66C		No
2CC #	79	CA_2A-71A		3CC #22
2CC #	80	CA_2C-5A		No
2CC #	81	CA_2C-12A		No
2CC #	82	CA_2C-29A	B29 SCC Only	No
2CC #	83	CA_2C-30A		No
2CC #	84	CA_2C-30A		No
2CC #	85	CA_2C-66A		No
2CC #	86	CA_2C-66A		No
2CC #	87	CA_4A-4A-5A		3CC #13
2CC #	88	CA_4A-4A-5B		No
2CC #	89	CA_4A-4A-7A		No
2CC #	90	CA_4A-4A-12A		3CC #14
2CC #	91	CA_4A-4A-12B		No
2CC #	92	CA_4A-4A-13A		No
2CC #	93	CA_4A-4A-29A	B29 SCC Only	No
2CC #	94	CA_4A-4A-30A		3CC #56
2CC #	95	CA_4A-4A-71A		No
2CC #	96	CA_4A-5A		3CC #1
2CC #	97	CA_4A-5B		3CC #16
2CC #	98	CA_4A-7A		2CC #97
2CC #	99	CA_4A-7A		2CC #97
2CC #	100	CA_4A-7A-7A		No
2CC #	101	CA_4A-12A		3CC #2
2CC #	102	CA_4A-12B		3CC #18
2CC #	103	CA_4A-13A		3CC #19
2CC #	104	CA_4A-17A		No
2CC #	105	CA_4A-29A	B29 SCC Only	3CC #20
2CC #	106	CA_4A-30A		3CC #21
2CC #	107	CA_4A-30A		3CC #21
2CC #	108	CA_4A-46A	B46 SCC Only	No
2CC #	109	CA_4A-46A-46A	B46 SCC Only	No
2CC #	110	CA_4A-46A-46C	B46 SCC Only	No
2CC #	111	CA_4A-46A-46D	B46 SCC Only	No
2CC #	112	CA_4A-46C	B46 SCC Only	No
2CC #	113	CA_4A-46D	B46 SCC Only	No
2CC #	114	CA_4A-71A		3CC #22
2CC #	115	CA_5A-7A		No
2CC #	116	CA_5A-25A		No
2CC #	117	CA_5A-30A		3CC #3
2CC #	118	CA_5A-41A		No
2CC #	119	CA_5A-46A	B46 SCC Only	No
2CC #	120	CA_5A-46C	B46 SCC Only	No
2CC #	121	CA_5A-46D	B46 SCC Only	No
2CC #	122	CA_5A-66A		3CC #4
2CC #	123	CA_5A-66B		3CC #5
2CC #	124	CA_5A-66C		3CC #6
2CC #	125	CA_5A-66D		No
2CC #	126	CA_5A-66A-66A		3CC #27
2CC #	127	CA_5A-66A-66B		No
2CC #	128	CA_5A-66A-66C		No
2CC #	129	CA_5B-30A		3CC #28
2CC #	130	CA_5B-66A		3CC #31
2CC #	131	CA_5B-66A-66A		3CC #31
2CC #	132	CA_5B-66C		3CC #32
2CC #	133	CA_7A-12A		No
2CC #	134	CA_7A-42A		No
2CC #	135	CA_7A-42A		No
2CC #	136	CA_7A-46A	B46 SCC Only	No
2CC #	137	CA_7A-46C	B46 SCC Only	No
2CC #	138	CA_7A-46D	B46 SCC Only	No
2CC #	139	CA_7A-66A		No
2CC #	140	CA_7A-66A		No
2CC #	141	CA_12A-30A		3CC #63
2CC #	142	CA_12A-66A		3CC #64
2CC #	143	CA_12A-66A-66A		3CC #64
2CC #	144	CA_12A-66C		3CC #36
2CC #	145	CA_13A-46A	B46 SCC Only	3CC #37
2CC #	146	CA_13A-46C	B46 SCC Only	3CC #38
2CC #	147	CA_13A-46D	B46 SCC Only	3CC #39
2CC #	148	CA_13A-46E	B46 SCC Only	No
2CC #	149	CA_13A-66A		3CC #42
2CC #	150	CA_13A-66A-66A		3CC #42
2CC #	151	CA_13A-66A-66B		No
2CC #	152	CA_13A-66A-66C		No
2CC #	153	CA_13A-66B		3CC #43
2CC #	154	CA_13A-66C		3CC #44
2CC #	155	CA_14A-30A		3CC #45
2CC #	156	CA_14A-66A		3CC #46
2CC #	157	CA_14A-66A-66A		3CC #47

3CC #	69	CA_4A-4A-5A-30A		4CC #1
3CC #	70	CA_4A-4A-12A-30A		4CC #2
3CC #	71	CA_4A-5A-30A		4CC #1
3CC #	72	CA_4A-7A-12A		No
3CC #	73	CA_4A-12A-30A		4CC #2
3CC #	74	CA_4A-29A-30A	B29 SCC Only	4CC #2
3CC #	75	CA_5A-30A-66A		No
3CC #	76	CA_5A-30A-66A-66A		No
3CC #	77	CA_5B-30A-66A		No
3CC #	78	CA_5B-30A-66A-66A		No
3CC #	79	CA_12A-30A-66A		4CC #6
3CC #	80	CA_12A-30A-66A-66A		4CC #6
3CC #	81	CA_13A-46A-66A	B46 SCC Only	No
3CC #	82	CA_13A-46C-66A	B46 SCC Only	No
3CC #	83	CA_13A-46D-66A	B46 SCC Only	No
3CC #	84	CA_14A-30A-66A		4CC #7
3CC #	85	CA_14A-30A-66A-66A		4CC #7
3CC #	86	CA_29A-30A-66A	B29 SCC Only	4CC #8

2CC #	158	CA_25A-26A		No
2CC #	159	CA_25A-25A-26A		No
2CC #	160	CA_29A-30A	B29 SCC Only	3CC #48
2CC #	161	CA_29A-66A	B29 SCC Only	3CC #49
2CC #	162	CA_29A-66A-66A	B29 SCC Only	No
2CC #	163	CA_30A-66A		3CC #50
2CC #	164	CA_30A-66A		3CC #50
2CC #	165	CA_30A-66A-66A		3CC #60
2CC #	166	CA_41A-42A		No
2CC #	167	CA_41A-42A		No
2CC #	168	CA_41A-42C		No
2CC #	169	CA_41A-42C		No
2CC #	170	CA_41C-42A		No
2CC #	171	CA_41C-42A		No
2CC #	172	CA_41C-42C		No
2CC #	173	CA_46A-46A-66A	B46 SCC Only	B46 DL Only
2CC #	174	CA_46A-46C-66A	B46 SCC Only	B46 DL Only
2CC #	175	CA_46A-46D-66A	B46 SCC Only	B46 DL Only
2CC #	176	CA_46A-66A	B46 SCC Only	B46 DL Only
2CC #	177	CA_46A-66A-66A	B46 SCC Only	B46 DL Only
2CC #	178	CA_46C-66A	B46 SCC Only	B46 DL Only
2CC #	179	CA_46C-66A-66A	B46 SCC Only	B46 DL Only
2CC #	180	CA_46D-66A	B46 SCC Only	B46 DL Only
2CC #	181	CA_46D-66A-66A	B46 SCC Only	B46 DL Only
2CC #	182	CA_46E-66A	B46 SCC Only	B46 DL Only
2CC #	183	CA_66A-66A-71A		No
2CC #	184	CA_66A-71A		3CC #51
2CC #	185	CA_66C-71A		No

In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the CA configuration with the largest aggregated DL CA BW in each frequency band, independently for contiguous and non-contiguous CA; however, if the same frequency band is used for both contiguous and non-contiguous CA, power measurement was performed using the configuration with the largest aggregated BW and maximum output power among contiguous and non-contiguous CA.

DL Intra-Band Contiguous Measured Results

E-UTRA CA configuration (BCS)	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)							
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
CA_2C	12	QPSK	20	18801	1870.1	1,0	20	999	1969.9										40	0	24.50	24.30	-0.20
CA_7B	13	QPSK	15	21076	2532.6	1,0	5	3169	2661.9										20	0	24.30	24.30	0.00
CA_7C	13	QPSK	20	21001	2525.1	1,0	20	3199	2664.9										40	0	24.30	24.28	-0.02
CA_38C	11	QPSK	20	37901	2585.1	1,0	20	38099	2604.9										40	0	24.63	24.60	-0.03
CA_41C	13	QPSK	20	40521	2583.1	1,0	20	40719	2602.9										40	0	24.20	24.10	-0.10
CA_41D	12	QPSK	20	40422	2573.2	1,0	20	40620	2593	20	40818	2612.8							60	0	24.20	24.10	-0.10
CA_41E	14	QPSK	20	40890	2620	1,0	20	41090	2640	20	41290	2660	20	41490	2680				80	0	24.20	24.00	-0.20
CA_46E	14	QPSK	20	50490	5520	1,0	20	50688	5539.8	20	50889	5559.9	20	51090	5580				80	0	DL only	DL only	DL only
CA_66D	14	QPSK	20	132224	1735.2	1,0	20	66886	2155	20	67084	2174.8							60	0	24.53	24.50	-0.03

DL Intra-Band Non-Contiguous Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)							
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
CA_7A-7A	12	QPSK	20	20850	2510	1,0	20	3350	2680										40	0	24.61	24.57	-0.04
CA_25A-25A	12	QPSK	20	26140	1860	1,0	20	8590	1985										40	0	24.83	24.53	-0.30
CA_41A-41A	12	QPSK	20	39750	2506	1,0	20	41490	2680										40	0	25.06	24.91	-0.15
CA_41A-41C	12	QPSK	20	39750	2506	1,0	20	41292	2660.2	20	41490	2680							60	0	25.06	24.92	-0.14
CA_41A-41D	13	QPSK	20	39750	2506	1,0	20	41094	2640.4	20	41292	2660.2	20	41490	2680				80	0	25.06	24.90	-0.16
CA_41C-41C	13	QPSK	20	39750	2506	1,0	20	39948	2525.8	20	41292	2660.2	20	41490	2680				80	0	25.06	25.00	-0.06
CA_41C-41D	14	QPSK	20	40521	2583.1	1,0	20	40719	2602.9	20	39750	2506	20	39948	2525.8	20	40146	2545.6	100	0	24.97	24.46	-0.51
CA_66A-66B	14	QPSK	20	132072	1720	1,0	10	67187	2185.1	10	67286	2195							40	0	24.75	24.74	-0.01
CA_66A-66C	14	QPSK	20	132072	1720	1,0	20	67038	2170.2	20	67236	2190							60	0	24.75	24.60	-0.15

DL Inter-Band (2 Bands) Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)							
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
CA_2A-2A-4A-4A	13	QPSK	20	18700	1860	1,49	20	1100	1980	20	2050	2120	20	2300	2145				80	0	24.55	24.44	-0.11
CA_2A-2A-12B	13	QPSK	20	18700	1860	1,49	20	1100	1980	5	5048	732.8	10	5120	740				55	0	24.55	24.42	-0.13
CA_2A-2A-46A	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50690	5540							60	0	24.55	24.11	-0.44
CA_2A-2A-46C	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50692	5540.2	20	50890	5560				80	0	24.55	24.10	-0.45
CA_2A-2A-46D	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50492	5520.2	20	50690	5540	20	50888	5559.8	100	0	24.55	24.50	-0.05
CA_2A-2A-66A-66A	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	20	67236	2190				80	0	24.55	24.24	-0.31
CA_2A-2A-66A-66B	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	10	67187	2185.1	10	67286	2195	80	0	24.55	24.40	-0.15
CA_2A-2A-66A-66C	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	20	67038	2170.2	20	67236	2190	100	0	24.55	24.37	-0.18
CA_2A-2A-71A	15	QPSK	20	18700	1860	1,49	20	1100	1980	10	68761	634.5							50	0	24.55	24.26	-0.29
CA_2A-17A	11	QPSK	20	18900	1880	1,49	10	5790	740										30	0	24.36	24.18	-0.18
CA_2A-46A-46A	14	QPSK	20	18900	1880	1,49	20	46890	5160	20	54340	5905							60	0	24.36	24.20	-0.16
CA_2A-46A-46C	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	50692	5540.2	20	50890	5560				80	0	24.36	24.21	-0.15
CA_2A-46A-46D	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	50492	5520.2	20	50690	5540	20	50888	5559.8	100	0	24.36	24.23	-0.13
CA_2A-46E	15	QPSK	20	18900	1880	1,49	20	50490	5520	20	50688	5539.8	20	50889	5559.9	20	51090	5580	100	0	24.36	24.28	-0.08
CA_2A-66A-66B	14	QPSK	20	18900	1880	1,49	20	66536	2120	10	67187	2185.1	10	67286	2195				60	0	24.36	24.27	-0.09
CA_2A-66A-66C	14	QPSK	20	18900	1880	1,49	20	66536	2120	20	67038	2170.2	20	67236	2190				80	0	24.36	24.31	-0.05
CA_2C-5A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	2525	881.5							50	0	24.34	24.20	-0.14
CA_2C-12A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	5095	737.5							50	0	24.34	24.19	-0.15
CA_2C-29A	12	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9715	722.5							50	0	24.34	24.20	-0.14
CA_2C-30A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9820	2355							50	0	24.34	24.32	-0.02
CA_2C-30A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9820	2355							50	0	24.34	24.32	-0.02
CA_2C-66A	15	QPSK	20	18801	1870.1	1,49	20	999	1969.9	20	66786	2145							60	0	24.34	24.28	-0.06
CA_2C-66A	15	QPSK	20	18801	1870.1	1,49	20	999	1969.9	20	66786	2145							60	0	24.34	24.28	-0.06
CA_4A-4A-5B	14	QPSK	20	20050	1720	1,49	20	2300	2145	5	2510	880	3	2549	883.9				48	0	24.40	24.34	-0.06
CA_4A-4A-7A	12	QPSK	20	20050	1720	1,49	20	2300	2145	20	3100	2655							60	0	24.40	24.49	0.09
CA_4A-4A-12B	14	QPSK	20	20050	1720	1,49	20	2300	2145	5	5048	732.8	10	5120	740				55	0	24.40	24.35	-0.05
CA_4A-4A-13A	12	QPSK	20	20050	1720	1,49	20	2300	2145	10	5230	751							50	0	24.40	24.36	-0.04
CA_4A-4A-29A	13	QPSK	20	20050	1720	1,49	20	2300	2145	10	9715	722.5							50	0	24.40	24.35	-0.05
CA_4A-4A-71A	15	QPSK	20	20050	1720	1,49	20	2300	2145	10	68761	634.5							50	0	24.40	24.33	-0.07
CA_4A-7A-7A	12	QPSK	20	20175	1732.5	1,49	20	2850	2630	20	3350	2680							60	0	24.35	24.42	0.07
CA_4A-17A	11	QPSK	20	20175	1732.5	1,49	10	5790	740										30	0	24.35	24.28	-0.07
CA_4A-46A	13	QPSK	20	20175	1732.5	1,49	20	50690	5540										40	0	24.35	24.30	-0.05
CA_4A-46A-46A	14	QPSK	20	20175	1732.5	1,49	20	46890	5160	20	54340	5905							60	0	24.35	24.31	-0.04
CA_4A-46A-46C	14	QPSK	20	20175	1732.5	1,49	20	50690	5540	20	50692	5540.2	20	50890	5560				80	0	24.35	24.29	-0.06
CA_4A-46A-46D	14	QPSK	20	20175	1732.5	1,49	20	50690	5540	20	50492	5520.2	20	50690	5540	20	50888	5559.8	100	0	24.35	24.27	-0.08
CA_4A-46C	14	QPSK	20	20175	1732.5	1,49	20	50692	5540.2	20	50890	5560							60	0	24.35	24.26	-0.09
CA_4A-46D	14	QPSK	20	20175	1732.5	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8				80	0	24.35	24.30	-0.05
CA_5A-7A	12	QPSK	10	20525	836.5	1,24	20	3100	2655										30	0	24.54	24.50	-0.04
CA_5A-25A	12	QPSK	10	20525	836.5	1,24	20	8365	1962.5										30	0	24.54	24.52	-0.02
CA_5A-41A	14	QPSK	10	20525	836.5	1,24	20	40620	2593										30	0	24.54	24.50	-0.04
CA_5A-46A	14	QPSK	10	20525	836.5	1,24	20	50690	5540										30	0	24.54	24.52	-0.02
CA_5A-46C	14	QPSK	10	20525	836.5	1,24	20	50692	5540.2	20	50890	5560							50	0	24.54	24.48	-0.06
CA_5A-46D	14	QPSK	10	20525	836.5	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8				70	0	24.54	24.49	-0.05
CA_5A-66D	14	QPSK	10	20525	836.5	1,24	20	66688	2135.2	20	66886	2155	20	67084	2174.8				70	0	24.54	24.52	-0.02
CA_5A-66A-66B	14	QPSK	10	20525	836.5	1,24	20	66536	2120	10	67187	2185.1	10	67286	2195				50	0	24.54	24.50	-0.04
CA_5A-66A-66C	14	QPSK	10	20525	836.5	1,24	20	66536	2120	20	67038	2170.2	20	67236	2190				70	0	24.54	24.51	-0.03
CA_7A-12A	12	QPSK	20	21100	2535	1,49	10	5095	737.5										30	0	24.62	24.54	-0.08
CA_7A-46A	13	QPSK	20	21100	2535	1,49	20	50690	5540										40	0	24.62	24.57	-0.05
CA_7A-46C	14	QPSK	20	21100	2535	1,49	20	50692	5540.2	20	50890	5560							60	0	24.62	24.55	-0.07
CA_7A-46D	14	QPSK	20	21100	2535	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8				80	0	24.62	24.56	-0.06
CA_7A-66A	14	QPSK	20	21100	2535	1,49	20	66786	2145										40	0	24.62	24.50	-0.12
CA_7A-66A	14	QPSK	20	21100	2535	1,49	20	66786	2145										40	0	24.62	24.50	-0.12
CA_13A-46E	14	QPSK	10	23230	782	1,24	20	50490	5520	20	50688	5539.8	20	50889	5559.9	20	51090	5580	90	0	24.58	24.50	-0.08
CA_13A-66A-66B	14	QPSK	10	23230	782	1,24	20	66536	2120	10	67187	2185.1	10	67286	2195				50	0	24.58	24.51	-0.07
CA_13A-66A-66C	14	QPSK	10	23230	782	1,24	20	66536	2120	20	67038	2170.2	20	67236	2190				70	0	24.58	24.50	-0.08
CA_25A-26A	13	QPSK	20	26365	1882.5	1,49	10	8865	876.5										30	0	24.37	24.32	-0.05
CA_25A-25A-26A	15	QPSK	20	26140	1860	1,49	20	8590	1985	10	8865	876.5							50	0	24.32	24.27	-0.05
CA_29A-66A-66A	14	QPSK	DL only	DL only	DL only	DL only	20	66536	2120	20	67236	2190							40	0	DL only	DL only	DL only
CA_66A-66A-71A	15	QPSK	20	132072	1720	1,0	20	67236	2190	10	68761	634.5							50	0	24.44	24.26	-0.18
CA_66C-71A	15	QPSK	20	132323	1745.1	1,0	20	66985	2164.9	10	68761	634.5							50	0	24.36	24.32	-0.04

DL Inter-Band (3 Bands) Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)							
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
CA_2A-2A-4A-5A	13	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	2525	881.5				70	0	24.60	23.70	-0.90
CA_2A-2A-4A-12A	13	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	5095	737.5				70	0	24.60	23.90	-0.70
CA_2A-2A-5A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	10	9820	2355				60	0	24.60	23.80	-0.80
CA_2A-2A-5A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	20	66786	2145				70	0	24.60	23.81	-0.79
CA_2A-2A-5A-66B	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	10	66837	2150.1	10	66936	2160	70	0	24.60	24.10	-0.50
CA_2A-2A-5A-66C	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	20	66787	2145.1	20	66985	2164.9	90	0	24.60	24.56	-0.04
CA_2A-2A-12A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5095	737.5	10	9820	2355				60	0	24.60	23.90	-0.70
CA_2A-2A-12A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5095	737.5	20	66786	2145				70	0	24.60	23.74	-0.86
CA_2A-2A-13A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5230	751	20	66786	2145				70	0	24.60	24.27	-0.33
CA_2A-2A-14A-66A	15	QPSK	20	18900	1880	1,49	20	1100	1980	10	5330	763	20	66786	2145				70	0	24.60	23.87	-0.73
CA_2A-2A-29A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	9715	722.5	10	9820	2355				60	0	24.60	23.77	-0.83
CA_2A-2A-30A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	9820	2355	20	66786	2145				70	0	24.60	23.87	-0.73
CA_2A-4A-4A-5A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	2175	2132.5	10	2525	881.5				70	0	24.60	23.80	-0.80
CA_2A-4A-4A-12A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	2175	2132.5	10	5095	737.5				70	0	24.60	23.85	-0.75
CA_2A-4A-5B	14	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	2476	876.6	10	2575	886.5				60	0	24.60	24.32	-0.28
CA_2A-4A-12B	14	QPSK	20	18900	1880	1,49	20	2175	2132.5	5	5048	732.8	10	5120	740				55	0	24.60	24.29	-0.31
CA_2A-4A-13A	12	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	5230	751							50	0	24.60	24.37	-0.23
CA_2A-4A-71A	15	QPSK	20	18900	1880	1,49	20	2175	2132.5	20	68761	634.5							60	0	24.60	24.30	-0.30
CA_2A-5A-66B	14	QPSK	20	18900	1880	1,49	10	2525	881.5	10	66837	2150.1	10	66936	2160				50	0	24.60	24.32	-0.28
CA_2A-5A-66C	14	QPSK	20	18900	1880	1,49	10	2525	881.5	20	66787	2145.1	20	66985	2164.9				70	0	24.60	24.17	-0.43
CA_2A-5B-66C	14	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	20	66787	2145.1	20	66985	2164.9	80	0	24.60	24.50	-0.10
CA_2A-12A-66C	14	QPSK	20	18900	1880	1,49	10	5095	737.5	20	66787	2145.1	20	66985	2164.9				70	0	24.60	24.29	-0.31
CA_2A-13A-46A	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50690	5540							50	0	24.60	24.24	-0.36
CA_2A-13A-46C	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50692	5540.2	20	50890	5560				70	0	24.60	24.30	-0.30
CA_2A-13A-46D	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50492	5520.2	20	50690	5540	20	50888	5559.8	90	0	24.60	24.66	0.06
CA_2A-13A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66786	2145							50	0	24.60	24.26	-0.34
CA_2A-13A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66786	2145							50	0	24.60	24.26	-0.34
CA_2A-13A-66A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66536	2120	20	67236	2190				70	0	24.60	24.23	-0.37
CA_2A-13A-66B	14	QPSK	20	18900	1880	1,49	10	5230	751	10	66837	2150.1	10	66936	2160				50	0	24.60	24.26	-0.34
CA_2A-13A-66C	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66787	2145.1	20	66985	2164.9				70	0	24.60	24.22	-0.38
CA_2A-46A-66A	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	66786	2145							60	0	24.60	24.42	-0.18
CA_2A-46C-66A	14	QPSK	20	18900	1880	1,49	20	50692	5540.2	20	50890	5560	20	66786	2145				80	0	24.60	24.39	-0.21
CA_2A-46D-66A	14	QPSK	20	18900	1880	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8	20	66786	2145	100	0	24.60	24.47	-0.13
CA_2A-66A-71A	15	QPSK	20	18900	1880	1,49	20	66786	2145	20	68761	634.5							60	0	24.60	24.33	-0.27
CA_2A-66A-71A	15	QPSK	20	18900	1880	1,49	20	66786	2145	20	68761	634.5							60	0	24.60	24.33	-0.27
CA_4A-7A-12A	12	QPSK	20	20175	1732.5	1,49	20	3100	2655	10	5095	737.5							50	0	24.40	24.36	-0.04
CA_5A-30A-66A	14	QPSK	10	20525	836.5	1,24	10	9820	2355	20	66786	2145							40	0	24.86	24.51	-0.35
CA_5A-30A-66A-66A	14	QPSK	10	20525	836.5	1,24	10	9820	2355	20	66536	2120	20	67236	2190				60	0	24.86	24.75	-0.11
CA_5B-30A-66A	14	QPSK	10	20476	831.6	1,24	10	2575	886.5	10	9820	2355	20	66786	2145				50	0	24.86	24.75	-0.11
CA_5B-30A-66A-66A	15	QPSK	10	20476	831.6	1,24	10	2575	886.5	10	9820	2355	20	66536	2120	20	67236	2190	70	0	24.86	24.60	-0.26
CA_13A-46A-66A	15	QPSK	10	23230	782	1,24	20	50690	5540	20	66786	2145							50	0	24.85	24.50	-0.35
CA_13A-46C-66A	15	QPSK	10	23230	782	1,24	20	50692	5540.2	20	50890	5560	20	66786	2145				70	0	24.85	24.50	-0.35
CA_13A-46D-66A	15	QPSK	10	23230	782	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8	20	66786	2145	90	0	24.85	24.63	-0.22

DL Inter-Band (4 Bands) Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)							
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
CA_2A-4A-5A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	2525	881.5	10	9820	2355				60	0	24.60	23.97	-0.63
CA_2A-4A-12A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	5095	737.5	10	9820	2355				60	0	24.60	23.89	-0.71
CA_2A-4A-29A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	9820	2355	10	9820	2355				60	0	24.60	23.87	-0.73
CA_2A-5A-30A-66A	14	QPSK	20	18900	1880	1,49	10	2525	881.5	10	9820	2355	20	66786	2145				60	0	24.60	23.95	-0.65
CA_2A-5B-30A-66A	14	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	10	9820	2355	20	66786	2145	70	0	24.60	23.83	-0.77
CA_2A-12A-30A-66A	14	QPSK	20	18900	1880	1,49	10	5095	737.5	10	9820	2355	20	66786	2145				60	0	24.60	23.85	-0.75
CA_2A-14A-30A-66A	15	QPSK	20	18900	1880	1,49	10	5330	763	10	9820	2355	20	66786	2145				60	0	24.60	24.00	-0.60
CA_2A-29A-30A-66A	15	QPSK	20	18900	1880	1,49	10	9715	722.5	10	9820	2355	20	66786	2145				60	0	24.60	23.92	-0.68

9.6. Wi-Fi 2.4 GHz (DTS Band)

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

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.

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 <1.6W/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.

For 2.4 GHz band, there are two use cases:

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

Mode	Channel	Frequency	Pcell ON				Pcell OFF			
			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	16.00	15.50	16.00	20.50	20.00	19.00	19.50
	2	2417	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	3	2422	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	4	2427	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	5	2432	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	6	2437	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	7	2442	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	8	2447	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	9	2452	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	10	2457	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	11	2462	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	12	2467	20.50	16.00	15.50	16.00	20.50	20.00	19.00	19.50
	13	2472	19.00	16.00	15.50	16.00	19.00	19.00	19.00	19.00

Mode	Channel	Frequency	Pcell ON				Pcell OFF			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11g/n OFDM (SISO)	1	2412	17.50	16.00	15.50	16.00	17.50	17.50	17.50	17.50
	2	2417	19.50	16.00	15.50	16.00	19.50	19.50	19.00	19.50
	3	2422	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	4	2427	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	5	2432	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	6	2437	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	7	2442	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	8	2447	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	9	2452	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	10	2457	19.50	16.00	15.50	16.00	19.50	19.50	19.00	19.50
	11	2462	17.50	16.00	15.50	16.00	17.50	17.50	17.50	17.50
	12	2467	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	13	2472	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Mode	Channel	Frequency	Pcell ON				Pcell OFF			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11n OFDM (MIMO)	1	2412	16.50	16.00	15.50	16.00	16.50	16.50	16.50	16.50
	2	2417	18.50	16.00	15.50	16.00	18.50	18.50	18.50	18.50
	3	2422	20.00	16.00	15.50	16.00	20.00	20.00	19.00	19.50
	4	2427	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	5	2432	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	6	2437	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	7	2442	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	8	2447	22.00	16.00	15.50	16.00	22.00	20.00	19.00	19.50
	9	2452	20.00	16.00	15.50	16.00	20.00	20.00	19.00	19.50
	10	2457	18.50	16.00	15.50	16.00	18.50	18.50	18.50	18.50
	11	2462	16.50	16.00	15.50	16.00	16.50	16.50	16.50	16.50
	12	2467	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
	13	2472	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

Wi-Fi 2.4 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.

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.

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 ON	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	15.95	16.00	Yes
				2	2417	22.00	22.00		16.00	16.00	
				6	2437	22.00	22.00		16.00	16.00	
				11	2462	22.00	22.00		15.95	16.00	
				12	2467	20.50	20.50		15.95	16.00	
				13	2472	19.00	19.00		15.95	16.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	15.50	15.50	Yes	16.00	16.00	Yes
				6	2437	15.50	15.50		16.00	16.00	
				11	2462	15.45	15.50		16.00	16.00	
				12	2467	15.50	15.50		15.85	16.00	
				13	2472	15.45	15.50		15.85	16.00	

Power Mode	Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell OFF	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	20.00	20.00	Yes
				2	2417	22.00	22.00		20.00	20.00	
				6	2437	22.00	22.00		20.00	20.00	
				11	2462	22.00	22.00		20.00	20.00	
				12	2467	20.50	20.50		20.00	20.00	
				13	2472	19.00	19.00		19.00	19.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	19.00	19.00	Yes	19.50	19.50	Yes
				6	2437	19.00	19.00		19.50	19.50	
				11	2462	19.00	19.00		19.45	19.50	
				12	2467	19.00	19.00		19.45	19.50	
				13	2472	19.00	19.00		19.50	19.50	

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

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

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.

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 <1.6W/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.

For 5GHz band, there are two use cases:

- P_{Cell_ON}: This will be used when both WWAN and Wi-Fi radios are ON.
- P_{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	20.00	17.50	20.00	20.00	20.00	12.50	18.50	18.50
		40	5200	21.00	17.50	21.00	21.00	21.00	12.50	18.50	18.50
		44	5220	21.00	17.50	21.00	21.00	21.00	12.50	18.50	18.50
		48	5240	21.00	17.50	21.00	21.00	21.00	12.50	18.50	18.50
	802.11n/ac 40 MHz	38	5190	18.50	17.50	18.50	18.50	18.50	12.50	18.50	18.50
		46	5230	22.00	17.50	22.00	22.00	22.00	12.50	18.50	18.50
	802.11ac 80 MHz	42	5210	17.50	17.50	17.50	17.50	17.50	12.50	17.50	17.50
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	17.50	21.00	21.00	21.00	12.00	17.50	17.50
		56	5280	21.00	17.50	21.00	21.00	21.00	12.00	17.50	17.50
		60	5300	21.00	17.50	21.00	21.00	21.00	12.00	17.50	17.50
		64	5320	19.00	17.50	19.00	19.00	19.00	12.00	17.50	17.50
	802.11n/ac 40 MHz	54	5270	22.00	17.50	21.00	21.00	22.00	12.00	17.50	17.50
		62	5310	17.50	17.50	17.50	17.50	17.50	12.00	17.50	17.50
	802.11ac 80 MHz	58	5290	17.50	17.50	17.50	17.50	17.50	12.00	17.50	17.50

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-2C 5.5 GHz (SISO)	802.11a/n/ac 20 MHz	100	5500	19.00	17.00	19.00	17.00	19.00	12.00	15.50	13.50
		104	5520	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		108	5540	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		112	5560	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		116	5580	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		120	5600	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		124	5620	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		128	5640	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		132	5660	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		136	5680	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
		140	5700	19.00	17.00	19.00	17.00	19.00	12.00	15.50	13.50
		144	5720	21.00	17.00	19.50	17.00	21.00	12.00	15.50	13.50
	802.11n/ac 40 MHz	102	5510	17.50	17.00	17.50	17.00	17.50	12.00	15.50	13.50
		110	5550	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
		118	5590	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
		126	5630	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
		134	5670	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
		142	5710	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
	802.11ac 80 MHz	106	5530	17.50	17.00	17.50	17.00	17.50	12.00	15.50	13.50
		122	5610	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50
		138	5690	22.00	17.00	19.50	17.00	22.00	12.00	15.50	13.50

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		153	5765	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		157	5785	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		161	5805	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		165	5825	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
	802.11n/ac 40 MHz	151	5755	22.00	18.00	22.00	18.50	22.00	12.00	18.25	14.50
		159	5795	22.00	18.00	22.00	18.50	22.00	12.00	18.25	14.50
	802.11ac 80 MHz	155	5775	22.00	18.00	22.00	18.50	22.00	12.00	18.25	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-1 5.2 GHz (MIMO)	802.11n/ac 20 MHz	36	5180	18.00	17.50	18.00	18.00	18.00	12.50	18.00	18.00
		40	5200	18.00	17.50	18.00	18.00	18.00	12.50	18.00	18.00
		44	5220	18.00	17.50	18.00	18.00	18.00	12.50	18.00	18.00
		48	5240	18.00	17.50	18.00	18.00	18.00	12.50	18.00	18.00
	802.11n/ac 40 MHz	38	5190	18.00	17.50	18.00	18.00	18.00	12.50	18.00	18.00
		46	5230	20.00	17.50	20.00	20.00	20.00	12.50	18.50	18.50
	802.11ac 80 MHz	42	5210	17.50	17.50	17.50	17.50	17.50	12.50	17.50	17.50
U-NII-2A 5.3 GHz (MIMO)	802.11n/ac 20 MHz	52	5260	18.00	17.50	18.00	18.00	18.00	12.00	17.50	17.50
		56	5280	18.00	17.50	18.00	18.00	18.00	12.00	17.50	17.50
		60	5300	18.00	17.50	18.00	18.00	18.00	12.00	17.50	17.50
		64	5320	18.00	17.50	18.00	18.00	18.00	12.00	17.50	17.50
	802.11n/ac 40 MHz	54	5270	20.00	17.50	20.00	20.00	20.00	12.00	17.50	17.50
		62	5310	17.00	17.00	17.00	17.00	17.00	12.00	17.00	17.00
	802.11ac 80 MHz	58	5290	16.50	16.50	16.50	16.50	16.50	12.00	16.50	16.50

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-2C 5.5 GHz (MIMO)	802.11n/ac 20 MHz	100	5500	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		104	5520	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		108	5540	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		112	5560	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		116	5580	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		120	5600	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		124	5620	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		128	5640	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		132	5660	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		136	5680	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		140	5700	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
		144	5720	18.00	17.00	18.00	17.00	18.00	12.00	15.50	13.50
	802.11n/ac 40 MHz	102	5510	17.00	17.00	17.00	17.00	17.00	12.00	15.50	13.50
		110	5550	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
		118	5590	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
		126	5630	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
		134	5670	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
		142	5710	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
	802.11ac 80 MHz	106	5530	16.50	16.50	16.50	16.50	16.50	12.00	15.50	13.50
		122	5610	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50
		138	5690	20.00	17.00	19.50	17.00	20.00	12.00	15.50	13.50

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (MIMO)	802.11n/ac 20 MHz	149	5745	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		153	5765	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		157	5785	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		161	5805	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
		165	5825	22.50	18.00	22.00	18.50	22.50	12.00	18.25	14.50
	802.11n/ac 40 MHz	151	5755	22.00	18.00	22.00	18.50	22.00	12.00	18.25	14.50
		159	5795	22.00	18.00	22.00	18.50	22.00	12.00	18.25	14.50
	802.11ac 80 MHz	155	5775	22.00	18.00	22.00	18.50	22.00	12.00	18.25	14.50

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	21.90	22.00	Yes			
				62	5310	17.50	17.50				
		U-NII-2A	802.11ac VHT80	58	5290				17.50	17.50	Yes
		U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	17.00	17.00	Yes
				122	5610	21.90	22.00		17.00	17.00	
				138	5690	21.90	22.00		17.00	17.00	
		U-NII-3	802.11a HT20	149	5745	22.50	22.50	Yes			
				157	5785	22.50	22.50				
				165	5825	22.40	22.50				
			802.11ac VHT80	155	5775				18.00	18.00	Yes
	ANT6	U-NII-1	802.11n HT40	38	5190	18.50	18.50	Yes	18.50	18.50	Yes
				46	5230	22.00	22.00		22.00	22.00	
		U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	17.00	17.00	Yes
				122	5610	19.50	19.50		17.00	17.00	
				138	5690	19.50	19.50		17.00	17.00	
		U-NII-3	802.11ac VHT80	155	5775	22.00	22.00	Yes	18.50	18.50	Yes

Power Mode	Antenna	Mode	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
						Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Pcell ON	ANT5	U-NII-1	802.11ac VHT80	42	5210				12.50	12.50	Yes
		U-NII-2A	802.11n HT40	54	5270	21.90	22.00	Yes			
				62	5310	17.50	17.50				
		U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	11.75	12.00	Yes
				122	5610	21.90	22.00		11.60	12.00	
				138	5690	21.90	22.00		12.00	12.00	
		U-NII-3	802.11a HT20	149	5745	22.50	22.50	Yes			
				157	5785	22.50	22.50				
				165	5825	22.40	22.50				
			802.11ac VHT80	155	5775				11.90	12.00	Yes
	ANT6	U-NII-1	802.11n HT40	38	5190	18.50	18.50	Yes	18.20	18.50	Yes
				46	5230	18.50	18.50		18.20	18.50	
		U-NII-2C	802.11ac VHT80	106	5530	15.40	15.50	Yes	13.50	13.50	Yes
				122	5610	15.50	15.50		13.50	13.50	
				138	5690	15.50	15.50		13.40	13.50	
		U-NII-3	802.11ac VHT80	155	5775	18.25	18.25	Yes	14.50	14.50	Yes

9.8. Bluetooth

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

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

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 $P_{standalone}$ 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 $P_{standalone}$			
	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	11.0	10.5	10.0	10.0	20.0	14.5	13.5	14.0	20.0	17.0	16.0	16.5
EDR	7.5	7.5	7.5	7.5	17.5	14.5	13.5	14.0	17.5	17.0	16.0	16.5
LE	10.0	10.0	10.0	10.0	20.0	14.5	13.5	14.0	20.0	17.0	16.0	16.5
HDR	8.0	8.0	8.0	8.0	16.0	14.5	13.5	14.0	16.0	16.0	16.0	16.0

Bluetooth Measured Results

SAR measurement is not required for the 8PSK, BLE, and HDR. When the secondary mode is ≤ ¼ 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	10.50	10.50	Yes
			39	2441	11.00	11.00		10.50	10.50	
			78	2480	11.00	11.00		10.50	10.50	
	ANT4	GFSK	0	2402	10.00	10.00	Yes	10.00	10.00	Yes
			39	2441	10.00	10.00		10.00	10.00	
			78	2480	10.00	10.00		10.00	10.00	
Bluetooth P_{high}	ANT3	GFSK	0	2402	20.00	20.00	Yes	14.50	14.50	Yes
			39	2441	20.00	20.00		14.50	14.50	
			78	2480	20.00	20.00		14.50	14.50	
	ANT4	GFSK	0	2402	13.50	13.50	Yes	14.00	14.00	Yes
			39	2441	13.50	13.50		14.00	14.00	
			78	2480	13.50	13.50		14.00	14.00	
Bluetooth $P_{standalone}$	ANT3	GFSK	0	2402	20.00	20.00	Yes	17.00	17.00	Yes
			39	2441	20.00	20.00		17.00	17.00	
			78	2480	20.00	20.00		17.00	17.00	
	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

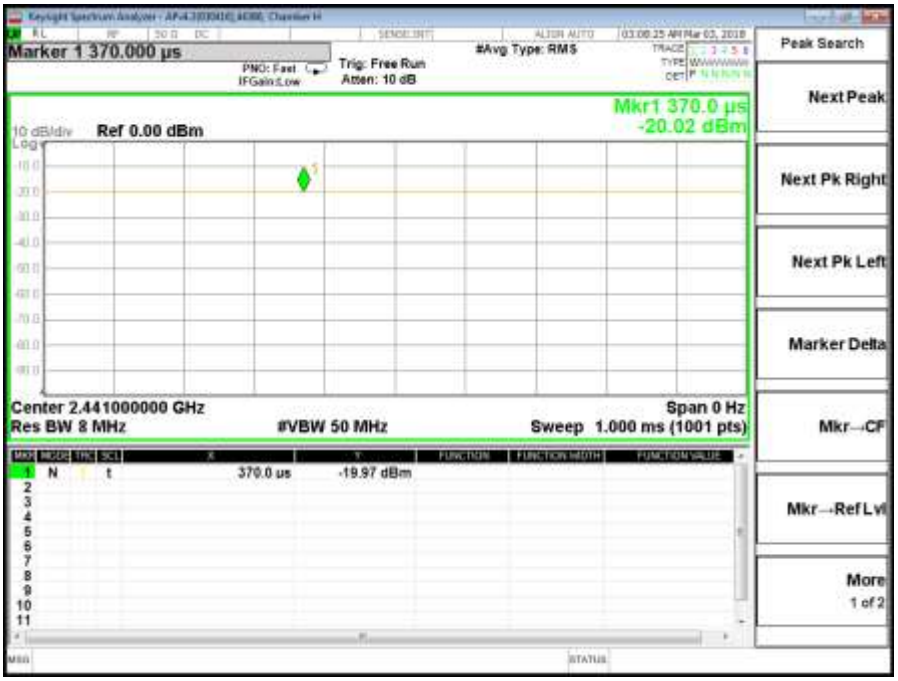
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

Note(s):

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

Duty Cycle plots

GFSK



10. Measured and Reported (Scaled) SAR Results

SAR Testing was performed based on the power measurement results from Sec. 9. Output power from both power modes: Mode A and Mode B were applied for each respective antenna. 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.

Test Tables were organized and labeled by antenna, ANT1, ANT2, ANT3 and ANT4 for WWAN technologies. And for Wi-Fi/Bluetooth technologies, Test Tables were organized and labeled by power configuration and antenna ANT3 and ANT4 (Wi-Fi/BT 2.4 GHz), ANT5, ANT6 (Wi-Fi 5 GHz), Applicable SAR Test Reductions have been applied accordingly following the SAR KDB Procedure as follows:

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 (%)

Per October 2016 TCB Workshop for DUT Holder Perturbations:

When the highest reported SAR of an antenna is > 1.2 W/kg for 1-g SAR and 3.0 W/kg for 10-g SAR, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands.

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

KDB 941225 D01 SAR test for 3G SAR Test Reduction Procedure:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

GSM Guidance

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. Please refer to section 9. for GSM power verification.

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

W-CDMA Guidance

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC (Head) and other spreading codes and multiple $DPDCH_n$ configurations supported by the handset with 12.2 kbps RMC (Body-Worn Accessory) as the primary mode.

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 ≤ ¼ dB higher than the primary mode.

CDMA 2000 Guidance

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 ($FCH+SCH_n$), 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, Rev. B and 1x-Advanced. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is ≤ ¼ dB higher than the primary 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 and 64-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. Please refer to section 6.3. is determiner non-overlapping channels for LTE bands.

KDB 248227 D01 SAR meas for 802.11:

When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

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.

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	32.00	31.00	0.174	0.219	0.133	0.167	
					Left Tilt	190	836.6	32.00	31.00	0.097	0.122	0.076	0.095	
					Right Touch	190	836.6	32.00	31.00	0.202	0.254	0.158	0.199	1
					Right Tilt	190	836.6	32.00	31.00	0.095	0.119	0.076	0.096	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	32.00	31.00	0.553	0.696	0.337	0.424	2
					Front	190	836.6	32.00	31.00	0.248	0.312	0.185	0.233	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	32.00	31.00	0.440	0.554	0.283	0.356	
					Edge 3	190	836.6	32.00	31.00	0.182	0.229	0.087	0.110	
					Edge 4	190	836.6	32.00	31.00	0.179	0.225	0.117	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	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	30.00	29.00	0.278	0.350	0.201	0.253	
					Left Tilt	190	836.6	30.00	29.00	0.197	0.248	0.125	0.157	
					Right Touch	190	836.6	30.00	29.00	0.351	0.442	0.240	0.302	3
					Right Tilt	190	836.6	30.00	29.00	0.257	0.324	0.146	0.184	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	30.00	29.00	0.328	0.413	0.193	0.243	4
					Front	190	836.6	30.00	29.00	0.148	0.186	0.097	0.122	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	30.00	29.00	0.097	0.122	0.049	0.062	
					Edge 2	190	836.6	30.00	29.00	0.106	0.133	0.067	0.084	
					Edge 4	190	836.6	30.00	29.00	0.206	0.259	0.134	0.169	

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	30.50	29.50	0.135	0.170	0.085	0.107	
					Left Tilt	661	1880.0	30.50	29.50	0.100	0.126	0.058	0.073	
					Right Touch	661	1880.0	30.50	29.50	0.261	0.329	0.155	0.195	5
					Right Tilt	661	1880.0	30.50	29.50	0.081	0.102	0.049	0.062	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.50	27.50	0.907	0.907	0.426	0.426	
						661	1880.0	27.50	27.40	0.905	0.926	0.422	0.432	6
						810	1909.8	27.50	27.30	0.833	0.872	0.385	0.403	
					Front	661	1880.0	27.50	27.40	0.071	0.073	0.032	0.033	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	27.50	27.40	0.120	0.123	0.051	0.052	
					Edge 3	661	1880.0	27.50	27.40	0.047	0.048	0.019	0.019	
					Edge 4	661	1880.0	27.50	27.40	0.001	0.001	0.000	0.000	
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	0.308	0.330	0.166	0.178	
					Left Tilt	661	1880.0	26.50	26.20	0.350	0.375	0.171	0.183	
					Right Touch	512	1850.2	26.50	26.20	0.741	0.794	0.372	0.399	
						661	1880.0	26.50	26.20	0.816	0.874	0.413	0.443	7
						810	1909.8	26.50	26.20	0.795	0.852	0.411	0.440	
					Right Tilt	512	1850.2	26.50	26.20	0.746	0.799	0.336	0.360	
						661	1880.0	26.50	26.20	0.814	0.872	0.364	0.390	
						810	1909.8	26.50	26.20	0.791	0.848	0.353	0.378	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.20	26.20	0.745	0.745	0.335	0.335	
						661	1880.0	26.20	26.20	0.815	0.815	0.355	0.355	
						810	1909.8	26.20	26.20	0.852	0.852	0.381	0.381	8
					Front	661	1880.0	26.20	26.20	0.622	0.622	0.294	0.294	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	26.20	26.20	0.623	0.623	0.261	0.261	
					Edge 2	661	1880.0	26.20	26.20	0.034	0.034	0.016	0.016	
					Edge 4	661	1880.0	26.20	26.20	0.501	0.501	0.255	0.255	
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	30.00	29.20	0.142	0.171	0.086	0.103	9
					Left Tilt	661	1880.0	30.00	29.20	0.055	0.066	0.032	0.038	
					Right Touch	661	1880.0	30.00	29.20	0.040	0.048	0.022	0.026	
					Right Tilt	661	1880.0	30.00	29.20	0.035	0.042	0.018	0.022	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.00	26.70	0.835	0.895	0.421	0.451	10
						661	1880.0	27.00	26.80	0.845	0.885	0.420	0.440	
						810	1909.8	27.00	26.70	0.788	0.844	0.387	0.415	
					Front	661	1880.0	27.00	26.80	0.552	0.578	0.288	0.302	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 3	661	1880.0	27.00	26.80	0.498	0.521	0.268	0.281	
					Edge 4	661	1880.0	27.00	26.80	0.607	0.636	0.318	0.333	
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	27.00	26.83	0.632	0.657	0.321	0.334	
						661	1880.0	27.00	26.75	0.764	0.809	0.387	0.410	
						810	1909.8	27.00	26.90	0.870	0.890	0.441	0.451	11
					Left Tilt	661	1880.0	27.00	26.75	0.492	0.521	0.239	0.253	
					Right Touch	661	1880.0	27.00	26.75	0.177	0.187	0.105	0.111	
					Right Tilt	661	1880.0	27.00	26.75	0.159	0.168	0.084	0.089	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	27.50	27.50	0.716	0.716	0.374	0.374	12
					Front	661	1880.0	27.50	27.50	0.371	0.371	0.201	0.201	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	27.50	27.50	0.309	0.309	0.134	0.134	
					Edge 2	512	1850.2	27.50	27.50	0.683	0.683	0.313	0.313	
						661	1880.0	27.50	27.50	0.852	0.852	0.395	0.395	13
						810	1909.8	27.50	27.41	0.794	0.811	0.373	0.381	

10.3. W-CDMA Band 2

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	25.50	24.50	0.207	0.261	0.131	0.165	
					Left Tilt	9400	1880.0	25.50	24.50	0.162	0.204	0.093	0.117	
					Right Touch	9400	1880.0	25.50	24.50	0.345	0.434	0.208	0.262	14
					Right Tilt	9400	1880.0	25.50	24.50	0.134	0.169	0.081	0.102	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	21.00	20.30	0.756	0.888	0.346	0.407	
						9400	1880.0	21.00	20.30	0.819	0.962	0.372	0.437	
						9538	1907.6	21.00	20.20	0.804	0.967	0.364	0.438	15
					Front	9400	1880.0	21.00	20.30	0.426	0.501	0.202	0.237	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9400	1880.0	21.00	20.30	0.656	0.771	0.293	0.344	
					Edge 3	9400	1880.0	21.00	20.30	0.254	0.298	0.123	0.145	
					Edge 4	9400	1880.0	21.00	20.30	0.057	0.067	0.027	0.032	

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	18.50	18.50	0.285	0.285	0.156	0.156	
					Left Tilt	9400	1880.0	18.50	18.50	0.319	0.319	0.159	0.159	
					Right Touch	9262	1852.4	18.50	18.50	0.745	0.745	0.367	0.367	
						9400	1880.0	18.50	18.50	0.873	0.873	0.433	0.433	16
						9538	1907.6	18.50	18.50	0.815	0.815	0.421	0.421	
					Right Tilt	9400	1880.0	18.50	18.50	0.777	0.777	0.358	0.358	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	17.70	17.70	0.522	0.522	0.248	0.248	
						9400	1880.0	17.70	17.70	0.763	0.763	0.341	0.341	
						9538	1907.6	17.70	17.50	0.837	0.876	0.366	0.383	17
					Front	9400	1880.0	17.70	17.70	0.303	0.303	0.145	0.145	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	17.70	17.70	0.387	0.387	0.165	0.165	
					Edge 2	9400	1880.0	17.70	17.70	0.029	0.029	0.009	0.009	
					Edge 4	9400	1880.0	17.70	17.70	0.248	0.248	0.129	0.129	

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	24.00	0.413	0.520	0.248	0.312	18
					Left Tilt	9400	1880.0	25.00	24.00	0.124	0.156	0.077	0.097	
					Right Touch	9400	1880.0	25.00	24.00	0.181	0.228	0.117	0.147	
					Right Tilt	9400	1880.0	25.00	24.00	0.110	0.138	0.064	0.081	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	19.50	19.20	0.891	0.955	0.442	0.474	19
						9400	1880.0	19.50	19.20	0.815	0.873	0.404	0.433	
						9538	1907.6	19.50	19.20	0.786	0.842	0.386	0.414	
					Front	9400	1880.0	19.50	19.20	0.431	0.462	0.223	0.239	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	9400	1880.0	19.50	19.20	0.310	0.332	0.165	0.177	
					Edge 4	9400	1880.0	19.50	19.20	0.552	0.591	0.275	0.295	

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	9400	1880.0	20.20	20.20	0.756	0.756	0.381	0.381	20
					Left Tilt	9400	1880.0	20.20	20.20	0.405	0.405	0.200	0.200	
					Right Touch	9400	1880.0	20.20	20.20	0.202	0.202	0.119	0.119	
					Right Tilt	9400	1880.0	20.20	20.20	0.169	0.169	0.092	0.092	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	20.50	20.00	0.593	0.665	0.299	0.335	21
					Front	9400	1880.0	20.50	20.00	0.389	0.436	0.207	0.232	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	20.50	20.00	0.323	0.362	0.152	0.171	
					Edge 2	9262	1852.4	20.50	20.00	0.648	0.727	0.302	0.339	
						9400	1880.0	20.50	20.00	0.725	0.813	0.333	0.374	
						9538	1907.6	20.50	20.10	0.813	0.891	0.372	0.408	22

10.4. W-CDMA Band 4

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	25.50	24.50	0.134	0.169	0.091	0.115	
					Left Tilt	1413	1732.6	25.50	24.50	0.117	0.147	0.074	0.093	
					Right Touch	1413	1732.6	25.50	24.50	0.303	0.381	0.191	0.240	23
					Right Tilt	1413	1732.6	25.50	24.50	0.112	0.141	0.073	0.092	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	18.00	17.70	0.594	0.636	0.289	0.310	24
					Front	1413	1732.6	18.00	17.70	0.370	0.396	0.180	0.193	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	18.00	17.70	0.191	0.205	0.104	0.111	
					Edge 3	1312	1712.4	18.00	17.60	0.823	0.902	0.380	0.417	25
						1413	1732.6	18.00	17.70	0.829	0.888	0.382	0.409	
						1513	1752.6	18.00	17.60	0.792	0.868	0.365	0.400	
					Edge 4	1413	1732.6	18.00	17.70	0.020	0.022	0.012	0.013	
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	1413	1732.6	20.20	20.20	0.516	0.516	0.256	0.256	
					Left Tilt	1413	1732.6	20.20	20.20	0.711	0.711	0.347	0.347	
					Right Touch	1312	1712.4	20.20	20.20	0.874	0.874	0.434	0.434	26
						1413	1732.6	20.20	20.20	0.839	0.839	0.415	0.415	
						1513	1752.6	20.20	20.20	0.747	0.747	0.365	0.365	
					Right Tilt	1312	1712.4	20.20	20.20	0.853	0.853	0.413	0.413	
						1413	1732.6	20.20	20.20	0.827	0.827	0.398	0.398	
						1513	1752.6	20.20	20.20	0.665	0.665	0.320	0.320	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	19.00	19.00	0.844	0.844	0.406	0.406	27
						1413	1732.6	19.00	19.00	0.812	0.812	0.389	0.389	
						1513	1752.6	19.00	19.00	0.712	0.712	0.338	0.338	
					Front	1413	1732.6	19.00	19.00	0.532	0.532	0.261	0.261	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1312	1712.4	19.00	19.00	0.793	0.793	0.378	0.378	
						1413	1732.6	19.00	19.00	0.814	0.814	0.380	0.380	
						1513	1752.6	19.00	19.00	0.610	0.610	0.291	0.291	
					Edge 2	1413	1732.6	19.00	19.00	0.005	0.005	0.003	0.003	
					Edge 4	1413	1732.6	19.00	19.00	0.307	0.307	0.167	0.167	
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	1413	1732.6	25.00	24.00	0.351	0.442	0.220	0.277	28
					Left Tilt	1413	1732.6	25.00	24.00	0.191	0.240	0.118	0.149	
					Right Touch	1413	1732.6	25.00	24.00	0.185	0.233	0.119	0.150	
					Right Tilt	1413	1732.6	25.00	24.00	0.139	0.175	0.088	0.111	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	22.00	21.80	0.737	0.772	0.424	0.444	
						1413	1732.6	22.00	21.90	0.844	0.864	0.482	0.493	
						1513	1752.6	22.00	21.80	0.888	0.930	0.499	0.523	29
					Front	1413	1732.6	22.00	21.90	0.547	0.560	0.323	0.331	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	1413	1732.6	22.00	21.90	0.520	0.532	0.258	0.264	
					Edge 4	1413	1732.6	22.00	21.90	0.737	0.754	0.390	0.399	
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	1413	1732.6	22.50	22.40	0.777	0.795	0.395	0.404	30
					Left Tilt	1413	1732.6	22.50	22.40	0.611	0.625	0.298	0.305	
					Right Touch	1413	1732.6	22.50	22.40	0.206	0.211	0.112	0.115	
					RighttTilt	1413	1732.6	22.50	22.40	0.197	0.202	0.106	0.108	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	22.50	22.10	0.421	0.462	0.224	0.246	31
					Front	1413	1732.6	22.50	22.10	0.333	0.365	0.180	0.197	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	22.50	22.10	0.348	0.382	0.158	0.173	
					Edge 2	1312	1712.4	22.50	22.10	0.598	0.656	0.285	0.312	
						1413	1732.6	22.50	22.10	0.742	0.814	0.350	0.384	
						1513	1752.6	22.50	22.00	0.794	0.891	0.373	0.419	32

10.5. W-CDMA Band 5

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	25.50	24.50	0.172	0.217	0.132	0.166	
					Left Tilt	4183	836.6	25.50	24.50	0.114	0.144	0.088	0.111	
					Right Touch	4183	836.6	25.50	24.50	0.206	0.259	0.159	0.200	33
					RighttTilt	4183	836.6	25.50	24.50	0.119	0.150	0.093	0.117	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.50	24.50	0.552	0.695	0.337	0.424	34
					Front	4183	836.6	25.50	24.50	0.243	0.306	0.158	0.199	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.50	24.50	0.434	0.546	0.283	0.356	
					Edge 3	4183	836.6	25.50	24.50	0.147	0.185	0.072	0.091	
					Edge 4	4183	836.6	25.50	24.50	0.274	0.345	0.178	0.224	
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	23.70	0.357	0.429	0.260	0.313	
					Left Tilt	4183	836.6	24.50	23.70	0.233	0.280	0.147	0.177	
					Right Touch	4183	836.6	24.50	23.70	0.426	0.512	0.303	0.364	35
					Right Tilt	4183	836.6	24.50	23.70	0.277	0.333	0.160	0.192	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.50	23.70	0.371	0.446	0.217	0.261	36
					Front	4183	836.6	24.50	23.70	0.201	0.242	0.134	0.161	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.50	23.70	0.138	0.166	0.070	0.084	
					Edge 2	4183	836.6	24.50	23.70	0.150	0.180	0.097	0.117	
					Edge 4	4183	836.6	24.50	23.70	0.292	0.351	0.186	0.224	

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	25.50	24.50	0.174	0.219	0.133	0.167	
					Left Tilt	384	836.5	25.50	24.50	0.101	0.127	0.079	0.099	
					Right Touch	384	836.5	25.50	24.50	0.211	0.266	0.163	0.205	37
					Right Tilt	384	836.5	25.50	24.50	0.112	0.141	0.088	0.111	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.50	24.50	0.173	0.218	0.133	0.167	
					Left Tilt	384	836.5	25.50	24.50	0.118	0.149	0.091	0.115	
					Right Touch	384	836.5	25.50	24.50	0.211	0.266	0.161	0.203	
					Right Tilt	384	836.5	25.50	24.50	0.111	0.140	0.087	0.110	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.50	24.50	0.395	0.497	0.248	0.312	38
					Front	384	836.5	25.50	24.50	0.309	0.389	0.193	0.243	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.50	24.50	0.519	0.653	0.336	0.423	39
					Edge 3	384	836.5	25.50	24.50	0.163	0.205	0.078	0.098	
					Edge 4	384	836.5	25.50	24.50	0.297	0.374	0.191	0.240	
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	23.60	0.342	0.421	0.254	0.312	
					Left Tilt	384	836.5	24.50	23.60	0.246	0.303	0.149	0.183	
					Right Touch	384	836.5	24.50	23.60	0.205	0.252	0.158	0.194	
					Right Tilt	384	836.5	24.50	23.60	0.300	0.369	0.169	0.208	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	24.50	23.60	0.340	0.418	0.252	0.310	
					Left Tilt	384	836.5	24.50	23.60	0.221	0.272	0.140	0.172	
					Right Touch	384	836.5	24.50	23.60	0.410	0.504	0.278	0.342	40
					Right Tilt	384	836.5	24.50	23.60	0.319	0.392	0.174	0.214	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	24.50	23.60	0.353	0.434	0.210	0.258	41
					Front	384	836.5	24.50	23.60	0.181	0.223	0.122	0.150	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	24.50	23.60	0.122	0.150	0.062	0.076	
					Edge 2	384	836.5	24.50	23.60	0.167	0.205	0.107	0.132	
					Edge 4	384	836.5	24.50	23.60	0.244	0.300	0.159	0.196	

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	25.50	24.50	0.210	0.264	0.133	0.167	
					Left Tilt	600	1880.0	25.50	24.50	0.149	0.188	0.086	0.108	
					Right Touch	600	1880.0	25.50	24.50	0.426	0.536	0.253	0.319	
					Right Tilt	600	1880.0	25.50	24.50	0.128	0.161	0.078	0.098	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.50	24.50	0.213	0.268	0.133	0.167	
					Left Tilt	600	1880.0	25.50	24.50	0.161	0.203	0.090	0.113	
					Right Touch	600	1880.0	25.50	24.50	0.480	0.604	0.282	0.355	42
					Right Tilt	600	1880.0	25.50	24.50	0.121	0.152	0.074	0.093	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	600	1880.0	21.00	21.00	0.734	0.734	0.334	0.334	43
					Front	600	1880.0	21.00	21.00	0.603	0.603	0.274	0.274	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	25	1851.3	21.00	21.00	0.902	0.902	0.400	0.400	44
						600	1880.0	21.00	21.00	0.856	0.856	0.379	0.379	
						1175	1908.8	21.00	20.90	0.757	0.775	0.330	0.338	
					Edge 3	600	1880.0	21.00	21.00	0.252	0.252	0.123	0.123	
					Edge 4	600	1880.0	21.00	21.00	0.048	0.048	0.027	0.027	

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	600	1880.0	18.50	18.50	0.316	0.316	0.163	0.163	
					Left Tilt	600	1880.0	18.50	18.50	0.232	0.232	0.118	0.118	
					Right Tilt	600	1880.0	18.50	18.50	0.728	0.728	0.369	0.369	
					Rightt Tilt	25	1851.3	18.50	18.50	0.899	0.899	0.398	0.398	
						600	1880.0	18.50	18.50	0.899	0.899	0.404	0.404	45
						1175	1908.8	18.50	18.50	0.785	0.785	0.364	0.364	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	18.50	18.50	0.387	0.387	0.203	0.203	
					Left Tilt	600	1880.0	18.50	18.50	0.489	0.489	0.242	0.242	
					Right Touch	600	1880.0	18.50	18.50	0.748	0.748	0.377	0.377	
					Right Tilt	600	1880.0	18.50	18.50	0.767	0.767	0.341	0.341	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	17.70	17.50	0.703	0.736	0.317	0.332	
						600	1880.0	17.70	17.70	0.796	0.796	0.353	0.353	
						1175	1908.8	17.70	17.70	0.857	0.857	0.379	0.379	46
					Front	600	1880.0	17.70	17.70	0.466	0.466	0.226	0.226	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	600	1880.0	17.70	17.70	0.602	0.602	0.249	0.249	
					Edge 2	600	1880.0	17.70	17.70	0.030	0.030	0.014	0.014	
					Edge 4	600	1880.0	17.70	17.70	0.371	0.371	0.196	0.196	

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	25.50	24.50	0.131	0.165	0.101	0.127	
					Left Tilt	560	820.0	25.50	24.50	0.083	0.104	0.066	0.083	
					Right Touch	560	820.0	25.50	24.50	0.137	0.172	0.105	0.132	
					Right Tilt	560	820.0	25.50	24.50	0.070	0.088	0.055	0.069	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.50	24.50	0.145	0.183	0.111	0.140	47
					Left Tilt	560	820.0	25.50	24.50	0.077	0.097	0.062	0.078	
					Right Touch	560	820.0	25.50	24.50	0.129	0.162	0.099	0.125	
					Right Tilt	560	820.0	25.50	24.50	0.069	0.087	0.055	0.069	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.50	24.50	0.481	0.606	0.289	0.364	48
					Front	560	820.0	25.50	24.50	0.181	0.228	0.119	0.150	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.50	24.50	0.381	0.480	0.247	0.311	
					Edge 3	560	820.0	25.50	24.50	0.130	0.164	0.065	0.082	
					Edge 4	560	820.0	25.50	24.50	0.226	0.285	0.147	0.185	

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	23.70	0.381	0.458	0.278	0.334	
					Left Tilt	560	820.0	24.50	23.70	0.261	0.314	0.165	0.198	
					Right Touch	560	820.0	24.50	23.70	0.476	0.572	0.340	0.409	49
					Right Tilt	560	820.0	24.50	23.70	0.325	0.391	0.189	0.227	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	24.50	23.70	0.334	0.402	0.252	0.303	
					Left Tilt	560	820.0	24.50	23.70	0.069	0.083	0.055	0.066	
					Right Touch	560	820.0	24.50	23.70	0.225	0.271	0.174	0.209	
					Right Tilt	560	820.0	24.50	23.70	0.315	0.379	0.171	0.206	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	24.50	23.70	0.374	0.450	0.222	0.267	50
					Front	560	820.0	24.50	23.70	0.171	0.206	0.119	0.143	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	24.50	23.70	0.146	0.176	0.074	0.089	
					Edge 2	560	820.0	24.50	23.70	0.197	0.237	0.128	0.154	
					Edge 4	560	820.0	24.50	23.70	0.322	0.387	0.209	0.251	

10.9. 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	25.50	24.50	0.264	0.332	0.151	0.190	
								50	24	24.50	23.50	0.208	0.262	0.120	0.151	
					Left Tilt	21100	2535.0	1	49	25.50	24.50	0.249	0.313	0.120	0.151	
								50	24	24.50	23.50	0.198	0.249	0.095	0.120	
					Right Touch	21100	2535.0	1	49	25.50	24.50	0.573	0.721	0.308	0.388	51
								50	24	24.50	23.50	0.464	0.584	0.249	0.313	
					Right Tilt	21100	2535.0	1	49	25.50	24.50	0.163	0.205	0.081	0.102	
								50	24	24.50	23.50	0.129	0.162	0.064	0.081	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	21.50	21.42	0.778	0.793	0.302	0.308	
								50	24	21.50	21.42	0.711	0.724	0.279	0.284	
						21100	2535.0	1	49	21.50	21.26	0.868	0.917	0.331	0.350	
								50	24	21.50	21.26	0.861	0.910	0.328	0.347	
								100	0	21.50	21.31	0.794	0.830	0.310	0.324	
						21350	2560.0	1	49	21.50	21.26	0.788	0.832	0.295	0.312	
								50	24	21.50	21.28	0.878	0.924	0.337	0.355	52
					Front	21100	2535.0	1	49	21.50	21.26	0.478	0.505	0.226	0.239	
								50	24	21.50	21.26	0.442	0.467	0.217	0.229	
	Hotspot	QPSK	Mode B	5	Edge 2	21100	2535.0	1	49	21.50	21.26	0.625	0.661	0.257	0.272	
								50	24	21.50	21.26	0.547	0.578	0.241	0.255	
					Edge 3	21100	2535.0	1	49	21.50	21.26	0.388	0.410	0.136	0.144	
								50	24	21.50	21.26	0.418	0.442	0.145	0.153	
					Edge 4	21100	2535.0	1	49	21.50	21.26	0.072	0.076	0.035	0.037	
								50	24	21.50	21.26	0.066	0.070	0.033	0.034	

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	21100	2535.0	1	49	19.70	19.70	0.608	0.608	0.254	0.254	
								50	24	19.70	19.70	0.600	0.600	0.250	0.250	
					Left Tilt	20850	2510.0	1	49	19.70	19.70	0.740	0.740	0.290	0.290	
								50	24	19.70	19.70	0.735	0.735	0.289	0.289	
						21100	2535.0	1	49	19.70	19.70	0.856	0.856	0.334	0.334	
								50	24	19.70	19.70	0.844	0.844	0.328	0.328	
								100	0	19.70	19.70	0.812	0.812	0.318	0.318	
						21350	2560.0	1	49	19.70	19.70	0.812	0.812	0.317	0.317	
								50	24	19.70	19.70	0.885	0.885	0.342	0.342	53
					Right Touch	21100	2535.0	1	49	19.70	19.70	0.769	0.769	0.304	0.304	
								50	24	19.70	19.70	0.718	0.718	0.283	0.283	
					Right Tilt	20850	2510.0	1	49	19.70	19.70	0.853	0.853	0.320	0.320	
								50	24	19.70	19.70	0.846	0.846	0.317	0.317	
						21100	2535.0	1	49	19.70	19.70	0.870	0.870	0.324	0.324	
								50	24	19.70	19.70	0.872	0.872	0.324	0.324	
								100	0	19.70	19.70	0.873	0.873	0.324	0.324	
						21350	2560.0	1	49	19.70	19.70	0.695	0.695	0.274	0.274	
								50	24	19.70	19.70	0.782	0.782	0.305	0.305	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	21.50	21.30	0.716	0.750	0.301	0.315	
						21100	2535.0	1	49	21.50	21.30	0.808	0.846	0.336	0.352	54
								50	24	21.50	21.30	0.710	0.743	0.299	0.313	
						21350	2560	1	49	21.50	21.30	0.777	0.814	0.320	0.335	
					Front	21100	2535.0	1	49	21.50	21.30	0.404	0.423	0.175	0.183	
								50	24	21.50	21.30	0.389	0.407	0.168	0.176	
	Hotspot	QPSK	Mode B	5	Edge 1	20850	2510.0	1	49	21.50	21.30	0.711	0.745	0.256	0.268	
						21100	2535.0	1	49	21.50	21.30	0.805	0.843	0.279	0.292	
								50	24	21.50	21.30	0.637	0.667	0.238	0.249	
						21350	2560	1	49	21.50	21.30	0.810	0.848	0.279	0.292	55
					Edge 2	21100	2535.0	1	49	21.50	21.30	0.095	0.100	0.046	0.049	
								50	24	21.50	21.30	0.091	0.096	0.044	0.046	
					Edge 4	20850	2510.0	1	49	21.50	21.30	0.769	0.805	0.345	0.361	
						21100	2535.0	1	49	21.50	21.30	0.764	0.800	0.338	0.354	
								50	24	21.50	21.30	0.742	0.777	0.328	0.343	
						21350	2560.0	1	49	21.50	21.30	0.698	0.731	0.306	0.320	

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	23.97	0.343	0.435	0.184	0.233	56
								50	24	24.00	23.20	0.317	0.381	0.170	0.204	
					Left Tilt	21100	2535.0	1	49	25.00	23.97	0.117	0.148	0.058	0.074	
								50	24	24.00	23.20	0.109	0.131	0.054	0.065	
					Right Touch	21100	2535.0	1	49	25.00	23.97	0.221	0.280	0.123	0.156	
								50	24	24.00	23.20	0.186	0.224	0.102	0.123	
					Right Tilt	21100	2535.0	1	49	25.00	23.97	0.142	0.180	0.070	0.089	
								50	24	24.00	23.20	0.123	0.148	0.061	0.073	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	21.00	21.00	0.888	0.888	0.375	0.375	
								50	24	21.00	21.00	0.783	0.783	0.332	0.332	
						21100	2535.0	1	49	21.00	21.00	0.888	0.888	0.371	0.371	
								50	24	21.00	21.00	0.937	0.937	0.376	0.376	57
								100	0	21.00	20.95	0.919	0.930	0.383	0.387	
						21350	2560.0	1	49	21.00	21.00	0.895	0.895	0.366	0.366	
								50	24	21.00	21.00	0.743	0.743	0.307	0.307	
					Front	20850	2510.0	1	49	21.00	21.00	0.777	0.777	0.362	0.362	
						21100	2535.0	1	49	21.00	21.00	0.819	0.819	0.372	0.372	
								50	24	21.00	21.00	0.750	0.750	0.333	0.333	
						21350	2560.0	1	49	21.00	21.00	0.741	0.741	0.334	0.334	
	Hotspot	QPSK	Mode B	5	Edge 3	21100	2535.0	1	49	21.00	21.00	0.409	0.409	0.206	0.206	
								50	24	21.00	21.00	0.412	0.412	0.207	0.207	
					Edge 4	21100	2535.0	1	49	21.00	21.00	0.279	0.279	0.135	0.135	
								50	24	21.00	21.00	0.275	0.275	0.106	0.106	

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	20850	2510.0	1	49	18.00	17.90	0.791	0.809	0.358	0.366	
								50	24	18.00	17.90	0.691	0.707	0.317	0.324	
						21100	2535.0	1	49	18.00	18.00	0.862	0.862	0.385	0.385	
								50	24	18.00	17.90	0.801	0.820	0.365	0.374	
								100	0	18.00	17.90	0.824	0.843	0.372	0.381	
						21350	2560.0	1	49	18.00	17.95	0.880	0.890	0.395	0.400	58
								50	24	18.00	17.90	0.681	0.697	0.312	0.319	
					Left Tilt	21100	2535.0	1	49	18.00	18.00	0.574	0.574	0.262	0.262	
								50	24	18.00	17.90	0.574	0.587	0.261	0.267	
					Right Touch	21100	2535.0	1	49	18.00	18.00	0.256	0.256	0.129	0.129	
								50	24	18.00	17.90	0.254	0.260	0.128	0.131	
					Right Tilt	21100	2535.0	1	49	18.00	18.00	0.188	0.188	0.093	0.093	
								50	24	18.00	17.90	0.185	0.189	0.092	0.094	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	18.70	17.90	0.691	0.831	0.319	0.384	
						21100	2535.0	1	49	18.70	18.00	0.747	0.878	0.345	0.405	59
								50	24	18.70	17.90	0.635	0.763	0.289	0.347	
						21350	2560.0	1	49	18.70	17.95	0.702	0.834	0.319	0.379	
					Front	21100	2535.0	1	49	18.70	18.00	0.295	0.347	0.152	0.179	
								50	24	18.70	17.90	0.311	0.374	0.153	0.184	
	Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	18.70	18.00	0.206	0.242	0.075	0.088	
								50	24	18.70	17.90	0.174	0.209	0.066	0.079	
					Edge 2	21100	2535.0	1	49	18.70	18.00	0.463	0.544	0.223	0.262	
								50	24	18.70	17.90	0.451	0.542	0.213	0.256	

10.10. 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	24	25.50	24.79	0.167	0.197	0.131	0.154	
								25	12	24.50	23.72	0.133	0.159	0.104	0.124	
					Left Tilt	23095	707.5	1	24	25.50	24.79	0.107	0.126	0.085	0.100	
								25	12	24.50	23.72	0.085	0.102	0.067	0.080	
					Right Touch	23095	707.5	1	24	25.50	24.79	0.221	0.261	0.174	0.205	60
								25	12	24.50	23.72	0.175	0.209	0.137	0.164	
					Right Tilt	23095	707.5	1	24	25.50	24.79	0.122	0.144	0.099	0.117	
								25	12	24.50	23.72	0.094	0.113	0.076	0.091	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	24	25.50	24.79	0.403	0.475	0.225	0.265	
								25	12	24.50	23.72	0.327	0.391	0.207	0.248	
					Front	23095	707.5	1	24	25.50	24.79	0.234	0.276	0.162	0.191	
								25	12	24.50	23.72	0.221	0.264	0.149	0.178	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	24	25.50	24.79	0.573	0.675	0.387	0.456	61
								25	12	24.50	23.72	0.448	0.536	0.302	0.361	
					Edge 3	23095	707.5	1	24	25.50	24.79	0.251	0.296	0.115	0.136	
								25	12	24.50	23.72	0.190	0.227	0.087	0.104	
					Edge 4	23095	707.5	1	24	25.50	24.79	0.201	0.237	0.134	0.158	
								25	12	24.50	23.72	0.168	0.201	0.112	0.134	

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	24	24.50	23.50	0.266	0.335	0.199	0.251	
								25	12	23.50	22.50	0.216	0.272	0.161	0.203	
					Left Tilt	23095	707.5	1	24	24.50	23.50	0.254	0.320	0.164	0.206	
								25	12	23.50	22.50	0.206	0.259	0.132	0.166	
					Right Touch	23095	707.5	1	24	24.50	23.50	0.372	0.468	0.252	0.317	
								25	12	23.50	22.50	0.297	0.374	0.201	0.253	
					Right Tilt	23095	707.5	1	24	24.50	23.50	0.385	0.485	0.224	0.282	62
								25	12	23.50	22.50	0.300	0.378	0.175	0.220	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	24	24.50	23.50	0.232	0.292	0.150	0.189	63
								25	12	23.50	22.50	0.184	0.232	0.119	0.150	
					Front	23095	707.5	1	24	24.50	23.50	0.152	0.191	0.118	0.149	
								25	12	23.50	22.50	0.119	0.150	0.093	0.117	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	24	24.50	23.50	0.078	0.098	0.042	0.053	
								25	12	23.50	22.50	0.067	0.084	0.035	0.045	
					Edge 2	23095	707.5	1	24	24.50	23.50	0.153	0.193	0.102	0.128	
								25	12	23.50	22.50	0.123	0.155	0.082	0.103	
					Edge 4	23095	707.5	1	24	24.50	23.50	0.320	0.403	0.215	0.271	64
								25	12	23.50	22.50	0.267	0.336	0.180	0.227	

10.11. 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	24	25.50	24.80	0.229	0.269	0.175	0.206	
								25	12	24.50	23.70	0.171	0.206	0.131	0.157	
					Left Tilt	23230	782.0	1	24	25.50	24.80	0.152	0.179	0.120	0.141	
								25	12	24.50	23.70	0.120	0.144	0.095	0.114	
					Right Touch	23230	782.0	1	24	25.50	24.80	0.270	0.317	0.207	0.243	65
								25	12	24.50	23.70	0.214	0.257	0.165	0.198	
					Right Tilt	23230	782.0	1	24	25.50	24.80	0.170	0.200	0.135	0.159	
								25	12	24.50	23.70	0.139	0.167	0.111	0.133	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	24	25.50	24.80	0.597	0.701	0.338	0.397	66
								25	12	24.50	23.70	0.471	0.566	0.266	0.320	
					Front	23230	782.0	1	24	25.50	24.80	0.338	0.397	0.199	0.234	
								25	12	24.50	23.70	0.268	0.322	0.157	0.189	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	24	25.50	24.80	0.702	0.825	0.465	0.546	67
								25	12	24.50	23.70	0.558	0.671	0.369	0.444	
					Edge 3	23230	782.0	1	24	25.50	24.80	0.407	0.478	0.185	0.217	
								25	12	24.50	23.70	0.323	0.388	0.146	0.176	
					Edge 4	23230	782.0	1	24	25.50	24.80	0.235	0.276	0.155	0.182	
								25	12	24.50	23.70	0.189	0.227	0.126	0.151	

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	24	24.50	23.55	0.342	0.426	0.249	0.310	
								25	12	23.50	22.57	0.272	0.337	0.198	0.245	
					Left Tilt	23230	782.0	1	24	24.50	23.55	0.275	0.342	0.174	0.217	
								25	12	23.50	22.57	0.222	0.275	0.140	0.173	
					Right Touch	23230	782.0	1	24	24.50	23.55	0.433	0.539	0.310	0.386	68
								25	12	23.50	22.57	0.349	0.432	0.249	0.308	
					Right Tilt	23230	782.0	1	24	24.50	23.55	0.343	0.427	0.204	0.254	
								25	12	23.50	22.57	0.274	0.339	0.162	0.200	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	24	24.50	23.55	0.329	0.410	0.199	0.248	69
								25	12	23.50	22.57	0.261	0.323	0.158	0.196	
					Front	23230	782.0	1	24	24.50	23.55	0.170	0.212	0.119	0.148	
								25	12	23.50	22.57	0.134	0.166	0.094	0.116	
	Hotspot	QPSK	Mode B	5	Edge 1	23230	782.0	1	24	24.50	23.55	0.092	0.115	0.048	0.060	
								25	12	23.50	22.57	0.063	0.078	0.035	0.043	
					Edge 2	23230	782.0	1	24	24.50	23.55	0.207	0.258	0.136	0.169	
								25	12	23.50	22.57	0.170	0.210	0.113	0.140	
					Edge 4	23230	782.0	1	24	24.50	23.55	0.337	0.420	0.222	0.276	70
								25	12	23.50	22.57	0.297	0.368	0.196	0.243	

10.12. LTE Band 14 (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	23330	793.0	1	24	25.50	24.71	0.211	0.253	0.160	0.192	
								25	12	24.50	23.69	0.163	0.197	0.124	0.150	
					Left Tilt	23330	793.0	1	24	25.50	24.71	0.150	0.180	0.117	0.140	
								25	12	24.50	23.69	0.125	0.151	0.097	0.117	
					Right Touch	23330	793.0	1	24	25.50	24.71	0.260	0.312	0.200	0.240	71
								25	12	24.50	23.69	0.209	0.252	0.161	0.194	
					Right Tilt	23330	793.0	1	24	25.50	24.71	0.178	0.213	0.140	0.168	
								25	12	24.50	23.69	0.143	0.172	0.113	0.136	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	24	25.50	24.71	0.516	0.619	0.290	0.348	72
								25	12	24.50	23.69	0.508	0.613	0.285	0.344	
					Front	23330	793.0	1	24	25.50	24.71	0.321	0.385	0.188	0.225	
								25	12	24.50	23.69	0.260	0.314	0.152	0.183	
	Hotspot	QPSK	Mode B	5	Edge 2	23330	793.0	1	24	25.50	24.71	0.690	0.827	0.454	0.544	73
								25	12	24.50	23.69	0.558	0.673	0.365	0.440	
					Edge 3	23330	793.0	1	24	25.50	24.71	0.347	0.416	0.156	0.187	
								25	12	24.50	23.69	0.287	0.346	0.128	0.154	
					Edge 4	23330	793.0	1	24	25.50	24.71	0.291	0.349	0.190	0.228	
								25	12	24.50	23.69	0.239	0.288	0.157	0.189	

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	23330	793.0	1	24	24.50	23.58	0.292	0.361	0.213	0.263	
								25	12	23.50	22.61	0.235	0.288	0.175	0.215	
					Left Tilt	23330	793.0	1	24	24.50	23.58	0.248	0.307	0.152	0.188	
								25	12	23.50	22.61	0.200	0.245	0.123	0.151	
					Right Touch	23330	793.0	1	24	24.50	23.58	0.354	0.438	0.254	0.314	74
								25	12	23.50	22.61	0.286	0.351	0.207	0.254	
					Right Tilt	23330	793.0	1	24	24.50	23.58	0.289	0.357	0.169	0.209	
								25	12	23.50	22.61	0.219	0.269	0.127	0.156	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	24	24.50	23.58	0.294	0.363	0.175	0.216	75
								25	12	23.50	22.61	0.235	0.288	0.140	0.172	
					Front	23330	793.0	1	24	24.50	23.58	0.137	0.169	0.101	0.125	
								25	12	23.50	22.61	0.112	0.137	0.081	0.099	
	Hotspot	QPSK	Mode B	5	Edge 1	23330	793.0	1	24	24.50	23.58	0.069	0.085	0.037	0.046	
								25	12	23.50	22.61	0.054	0.066	0.029	0.036	
					Edge 2	23330	793.0	1	24	24.50	23.58	0.193	0.239	0.125	0.155	
								25	12	23.50	22.61	0.154	0.189	0.100	0.123	
					Edge 4	23330	793.0	1	24	24.50	23.58	0.274	0.339	0.178	0.220	
								25	12	23.50	22.61	0.230	0.282	0.149	0.183	

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	25.50	24.50	0.207	0.261	0.130	0.164	
								50	24	24.50	23.50	0.170	0.214	0.107	0.135	
					Left Tilt	26365	1882.5	1	49	25.50	24.50	0.160	0.201	0.091	0.115	
								50	24	24.50	23.50	0.130	0.164	0.075	0.094	
					Right Touch	26365	1882.5	1	49	25.50	24.50	0.407	0.512	0.243	0.306	76
								50	24	24.50	23.50	0.336	0.423	0.200	0.252	
					Right Tilt	26365	1882.5	1	49	25.50	24.50	0.122	0.154	0.075	0.094	
								50	24	24.50	23.50	0.098	0.123	0.060	0.076	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	21.00	20.45	0.836	0.949	0.366	0.415	
								50	24	21.00	20.33	0.724	0.845	0.322	0.376	
						26365	1882.5	1	49	21.00	20.50	0.794	0.891	0.367	0.412	
								50	24	21.00	20.25	0.810	0.962	0.363	0.431	
								100	0	21.00	20.30	0.826	0.971	0.372	0.437	
						26590	1905.0	1	49	21.00	20.41	0.770	0.882	0.354	0.406	
								50	24	21.00	20.40	0.863	0.991	0.376	0.432	77
					Front	26365	1882.5	1	49	21.00	20.50	0.476	0.534	0.228	0.256	
								50	24	21.00	20.25	0.484	0.575	0.230	0.273	
	Hotspot	QPSK	Mode B	5	Edge 2	26365	1882.5	1	49	21.00	20.50	0.649	0.728	0.287	0.322	
								50	24	21.00	20.25	0.659	0.782	0.286	0.340	
					Edge 3	26365	1882.5	1	49	21.00	20.50	0.238	0.267	0.116	0.130	
								50	24	21.00	20.25	0.239	0.284	0.116	0.138	
					Edge 4	26365	1882.5	1	49	21.00	20.50	0.043	0.048	0.022	0.025	
								50	24	21.00	20.25	0.045	0.053	0.022	0.026	

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	18.50	18.50	0.147	0.147	0.078	0.078	
								50	24	18.50	18.50	0.152	0.152	0.080	0.080	
					Left Tilt	26365	1882.5	1	49	18.50	18.50	0.211	0.211	0.105	0.105	
								50	24	18.50	18.50	0.207	0.207	0.102	0.102	
					Right Touch	26140	1860.0	1	49	18.50	18.50	0.602	0.602	0.305	0.305	
						26365	1882.5	1	49	18.50	18.50	0.809	0.809	0.408	0.408	78
								50	24	18.50	18.50	0.789	0.789	0.397	0.397	
						26590	1905.0	1	49	18.50	18.50	0.686	0.686	0.356	0.356	
					Right Tilt	26365	1882.5	1	49	18.50	18.50	0.711	0.711	0.316	0.316	
								50	24	18.50	18.50	0.689	0.689	0.304	0.304	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	17.70	17.60	0.720	0.737	0.326	0.334	
								50	24	17.70	17.60	0.759	0.777	0.341	0.349	
						26365	1882.5	1	49	17.70	17.70	0.885	0.885	0.394	0.394	79
								50	24	17.70	17.60	0.783	0.801	0.352	0.360	
								100	0	17.70	17.60	0.816	0.835	0.367	0.376	
						26590	1905.0	1	49	17.70	17.70	0.872	0.872	0.389	0.389	
								50	24	17.70	17.70	0.875	0.875	0.393	0.393	
					Front	26365	1882.5	1	49	17.70	17.70	0.464	0.464	0.219	0.219	
								50	24	17.70	17.60	0.403	0.412	0.194	0.199	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	17.70	17.70	0.450	0.450	0.194	0.194	
								50	24	17.70	17.60	0.435	0.445	0.189	0.193	
					Edge 2	26365	1882.5	1	49	17.70	17.70	0.025	0.025	0.011	0.011	
								50	24	17.70	17.60	0.024	0.025	0.008	0.009	
					Edge 4	26365	1882.5	1	49	17.70	17.70	0.352	0.352	0.186	0.186	
								50	24	17.70	17.60	0.345	0.353	0.182	0.186	

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	24.00	0.364	0.458	0.227	0.286	80
								50	24	24.00	23.00	0.296	0.373	0.184	0.232	
					Left Tilt	26365	1882.5	1	49	25.00	24.00	0.133	0.167	0.081	0.102	
								50	24	24.00	23.00	0.106	0.133	0.065	0.082	
					Right Touch	26365	1882.5	1	49	25.00	24.00	0.148	0.186	0.096	0.121	
								50	24	24.00	23.00	0.121	0.152	0.079	0.099	
					Right Tilt	26365	1882.5	1	49	25.00	24.00	0.119	0.150	0.068	0.086	
								50	24	24.00	23.00	0.094	0.118	0.054	0.068	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	19.70	19.66	0.856	0.864	0.428	0.432	
								50	24	19.70	19.60	0.851	0.871	0.426	0.436	
						26365	1882.5	1	49	19.70	19.56	0.803	0.829	0.402	0.415	
								50	24	19.70	19.56	0.806	0.832	0.398	0.411	
								100	0	19.70	19.57	0.821	0.846	0.405	0.417	
						26590	1905.0	1	49	19.70	19.57	0.839	0.864	0.410	0.422	
								50	24	19.70	19.40	0.825	0.884	0.402	0.431	81
					Front	26365	1882.5	1	49	19.70	19.56	0.436	0.450	0.225	0.232	
								50	24	19.70	19.56	0.427	0.441	0.223	0.230	
	Hotspot	QPSK	Mode B	5	Edge 3	26365	1882.5	1	49	19.70	19.56	0.331	0.342	0.179	0.185	
								50	24	19.70	19.56	0.318	0.328	0.172	0.178	
					Edge 4	26365	1882.5	1	49	19.70	19.56	0.545	0.563	0.276	0.285	
								50	24	19.70	19.56	0.543	0.561	0.276	0.285	

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	26365	1882.5	1	49	20.20	20.20	0.777	0.777	0.399	0.399	82
								50	24	20.20	20.20	0.647	0.647	0.324	0.324	
					Left Tilt	26365	1882.5	1	49	20.20	20.20	0.568	0.568	0.286	0.286	
								50	24	20.20	20.20	0.442	0.442	0.222	0.222	
					Right Touch	26365	1882.5	1	49	20.20	20.20	0.191	0.191	0.116	0.116	
								50	24	20.20	20.20	0.152	0.152	0.092	0.092	
					Right Tilt	26365	1882.5	1	49	20.20	20.20	0.184	0.184	0.099	0.099	
								50	24	20.20	20.20	0.149	0.149	0.080	0.080	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	20.50	20.15	0.288	0.312	0.155	0.168	
								50	24	20.50	20.00	0.275	0.309	0.147	0.165	
					Front	26365	1882.5	1	49	20.50	20.15	0.464	0.502	0.219	0.237	83
								50	24	20.50	20.00	0.403	0.452	0.194	0.218	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	20.50	20.15	0.450	0.487	0.194	0.210	
								50	24	20.50	20.00	0.435	0.488	0.189	0.212	
					Edge 2	26140	1860.0	1	49	20.50	20.14	0.731	0.794	0.339	0.368	
								50	24	20.50	20.07	0.524	0.579	0.257	0.284	
						26365	1882.5	1	49	20.50	20.15	0.740	0.801	0.342	0.370	
								50	24	20.50	20.00	0.692	0.776	0.327	0.367	
						26590	1905.0	1	49	20.50	20.40	0.863	0.883	0.392	0.401	84

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	24	25.50	24.90	0.174	0.200	0.132	0.152	
								25	12	24.50	23.91	0.131	0.150	0.100	0.115	
					Left Tilt	26865	831.5	1	24	25.50	24.90	0.094	0.108	0.074	0.085	
								25	12	24.50	23.91	0.078	0.089	0.061	0.070	
					Right Touch	26865	831.5	1	24	25.50	24.90	0.175	0.201	0.135	0.155	85
								25	12	24.50	23.91	0.163	0.187	0.125	0.143	
					Right Tilt	26865	831.5	1	24	25.50	24.90	0.100	0.115	0.078	0.090	
								25	12	24.50	23.91	0.081	0.093	0.063	0.072	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	24	25.50	24.90	0.568	0.652	0.341	0.392	86
								25	12	24.50	23.91	0.545	0.624	0.326	0.373	
					Front	26865	831.5	1	24	25.50	24.90	0.219	0.251	0.140	0.161	
								25	12	24.50	23.91	0.217	0.249	0.139	0.159	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	24	25.50	24.90	0.365	0.419	0.234	0.269	
								25	12	24.50	23.91	0.307	0.352	0.201	0.230	
					Edge 3	26865	831.5	1	24	25.50	24.90	0.159	0.183	0.080	0.092	
								25	12	24.50	23.91	0.131	0.150	0.065	0.075	
					Edge 4	26865	831.5	1	24	25.50	24.90	0.192	0.220	0.125	0.144	
								25	12	24.50	23.91	0.182	0.208	0.118	0.135	

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	26865	831.5	1	24	24.50	23.74	0.361	0.430	0.260	0.310	
								25	12	23.50	22.70	0.291	0.349	0.210	0.252	
					Left Tilt	26865	831.5	1	24	24.50	23.74	0.241	0.287	0.153	0.182	
								25	12	23.50	22.70	0.191	0.229	0.122	0.147	
					Right Touch	26865	831.5	1	24	24.50	23.74	0.453	0.540	0.322	0.384	87
								25	12	23.50	22.70	0.365	0.438	0.255	0.306	
					Right Tilt	26865	831.5	1	24	24.50	23.74	0.333	0.397	0.184	0.219	
								25	12	23.50	22.70	0.257	0.309	0.141	0.169	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	24	24.50	23.74	0.347	0.413	0.199	0.237	88
								25	12	23.50	22.70	0.275	0.330	0.159	0.191	
					Front	26865	831.5	1	24	24.50	23.74	0.191	0.228	0.126	0.150	
								25	12	23.50	22.70	0.150	0.180	0.100	0.120	
	Hotspot	QPSK	Mode B	5	Edge 1	26865	831.5	1	24	24.50	23.74	0.124	0.148	0.062	0.074	
								25	12	23.50	22.70	0.100	0.120	0.050	0.060	
					Edge 2	26865	831.5	1	24	24.50	23.74	0.205	0.244	0.132	0.157	
								25	12	23.50	22.70	0.167	0.201	0.107	0.129	
					Edge 4	26865	831.5	1	24	24.50	23.74	0.298	0.355	0.193	0.230	
								25	12	23.50	22.70	0.243	0.292	0.157	0.189	

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	24	23.50	23.50	0.238	0.238	0.136	0.136	
								25	12	23.50	23.50	0.195	0.195	0.111	0.111	
					Left Tilt	27710	2310.0	1	24	23.50	23.50	0.232	0.232	0.111	0.111	
								25	12	23.50	23.50	0.187	0.187	0.089	0.089	
					Right Touch	27710	2310.0	1	24	23.50	23.50	0.524	0.524	0.283	0.283	89
								25	12	23.50	23.50	0.423	0.423	0.228	0.228	
					Right Tilt	27710	2310.0	1	24	23.50	23.50	0.165	0.165	0.086	0.086	
								25	12	23.50	23.50	0.137	0.137	0.072	0.072	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	21.70	20.90	0.797	0.958	0.341	0.410	90
								25	12	21.70	20.80	0.771	0.949	0.332	0.408	
								50	0	21.70	20.80	0.779	0.958	0.331	0.407	
					Front	27710	2310.0	1	24	21.70	20.90	0.484	0.582	0.246	0.296	
								25	12	21.70	20.80	0.482	0.593	0.245	0.301	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	24	21.70	20.90	0.807	0.970	0.324	0.390	91
								25	12	21.70	20.80	0.759	0.934	0.304	0.374	
								50	0	21.70	20.80	0.758	0.933	0.305	0.375	
					Edge 3	27710	2310.0	1	24	21.70	20.90	0.247	0.297	0.100	0.120	
								25	12	21.70	20.80	0.267	0.328	0.108	0.133	
					Edge 4	27710	2310.0	1	24	21.70	20.90	0.036	0.043	0.011	0.013	
								25	12	21.70	20.80	0.025	0.031	0.008	0.010	

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	24	20.50	20.50	0.384	0.384	0.182	0.182	
								25	12	20.50	20.50	0.380	0.380	0.180	0.180	
					Left Tilt	27710	2310.0	1	24	20.50	20.50	0.593	0.593	0.259	0.259	
								25	12	20.50	20.50	0.589	0.589	0.257	0.257	
					Right Touch	27710	2310.0	1	24	20.50	20.50	0.866	0.866	0.378	0.378	
								25	12	20.50	20.50	0.886	0.886	0.389	0.389	
								50	0	20.50	20.50	0.888	0.888	0.390	0.390	92
					Right Tilt	27710	2310.0	1	24	20.50	20.50	0.631	0.631	0.244	0.244	
								25	12	20.50	20.50	0.641	0.641	0.247	0.247	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.50	20.50	0.842	0.842	0.350	0.350	
								25	12	20.50	20.50	0.870	0.870	0.360	0.360	93
								50	0	20.50	20.50	0.868	0.868	0.359	0.359	
					Front	27710	2310.0	1	24	20.50	20.50	0.474	0.474	0.221	0.221	
								25	12	20.50	20.50	0.464	0.464	0.218	0.218	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	24	20.50	20.50	0.437	0.437	0.170	0.170	
								25	12	20.50	20.50	0.512	0.512	0.195	0.195	
					Edge 2	27710	2310.0	1	24	20.50	20.50	0.044	0.044	0.017	0.017	
								25	12	20.50	20.50	0.042	0.042	0.016	0.016	
					Edge 4	27710	2310.0	1	24	20.50	20.50	0.732	0.732	0.329	0.329	
								25	12	20.50	20.50	0.599	0.599	0.273	0.273	

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	24	23.50	23.50	0.253	0.253	0.139	0.139	94
								25	12	23.50	22.82	0.203	0.237	0.111	0.130	
					Left Tilt	27710	2310.0	1	24	23.50	23.50	0.128	0.128	0.065	0.065	
								25	12	23.50	22.82	0.103	0.120	0.051	0.060	
					Right Touch	27710	2310.0	1	24	23.50	23.50	0.211	0.211	0.113	0.113	
								25	12	23.50	22.82	0.175	0.205	0.093	0.109	
					Right Tilt	27710	2310.0	1	24	23.50	23.50	0.118	0.118	0.059	0.059	
								25	12	23.50	22.82	0.096	0.112	0.048	0.056	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.00	19.86	0.897	0.926	0.389	0.402	
								25	12	20.00	19.74	0.880	0.935	0.380	0.404	95
								50	0	20.00	19.78	0.863	0.908	0.374	0.394	
					Front	27710	2310.0	1	24	20.00	19.86	0.576	0.595	0.288	0.297	
								25	12	20.00	19.74	0.559	0.594	0.280	0.297	
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	1	24	20.00	19.86	0.300	0.310	0.157	0.162	
								25	12	20.00	19.74	0.296	0.314	0.154	0.164	
					Edge 4	27710	2310.0	1	24	20.00	19.86	0.174	0.180	0.085	0.088	
								25	12	20.00	19.74	0.177	0.188	0.086	0.091	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	24	18.20	17.70	0.758	0.850	0.330	0.370	
								25	12	18.20	17.80	0.789	0.865	0.340	0.373	
								50	0	18.20	17.80	0.789	0.865	0.341	0.374	96
					Left Tilt	27710	2310.0	1	24	18.20	17.70	0.290	0.325	0.115	0.129	
								25	12	18.20	17.80	0.289	0.317	0.115	0.126	
					Right Touch	27710	2310.0	1	24	18.20	17.70	0.337	0.378	0.144	0.162	
								25	12	18.20	17.80	0.334	0.366	0.142	0.156	
					Right Tilt	27710	2310.0	1	24	18.20	17.70	0.327	0.367	0.129	0.145	
								25	12	18.20	17.80	0.332	0.364	0.131	0.144	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	19.50	19.50	0.888	0.888	0.396	0.396	97
								25	12	19.50	19.20	0.753	0.807	0.339	0.363	
								50	0	19.50	19.30	0.782	0.819	0.350	0.366	
					Front	27710	2310.0	1	24	19.50	19.50	0.335	0.335	0.162	0.162	
								25	12	19.50	19.20	0.324	0.347	0.157	0.168	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	24	19.50	19.50	0.131	0.131	0.057	0.057	
								25	12	19.50	19.20	0.139	0.149	0.061	0.065	
					Edge 2	27710	2310.0	1	24	19.50	19.50	0.235	0.235	0.121	0.121	
								25	12	19.50	19.20	0.234	0.251	0.122	0.131	

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	25.50	24.90	0.118	0.135	0.069	0.079	
								50	24	24.50	23.52	0.088	0.110	0.052	0.065	
					Left Tilt	40620	2593.0	1	49	25.50	24.90	0.116	0.133	0.054	0.062	
								50	24	24.50	23.52	0.090	0.113	0.042	0.053	
					Right Touch	40620	2593.0	1	49	25.50	24.90	0.335	0.385	0.174	0.200	98
								50	24	24.50	23.52	0.259	0.325	0.135	0.169	
					Right Tilt	40620	2593.0	1	49	25.50	24.90	0.100	0.115	0.047	0.054	
								50	24	24.50	23.52	0.074	0.093	0.034	0.043	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	24.00	24.20	0.738	0.705	0.284	0.271	
								50	24	24.00	23.83	0.712	0.740	0.272	0.283	
						40185	2549.5	1	49	24.00	24.00	0.863	0.863	0.319	0.319	
								50	24	24.00	23.62	0.836	0.912	0.309	0.337	
						40620	2593.0	1	49	24.00	23.90	0.934	0.956	0.340	0.348	
								50	24	24.00	23.60	0.906	0.993	0.328	0.360	99
								100	0	24.00	23.75	0.710	0.752	0.261	0.276	
						41055	2636.5	1	49	24.00	24.00	0.802	0.802	0.289	0.289	
								50	24	24.00	23.55	0.689	0.764	0.255	0.283	
						41490	2680.0	1	49	24.00	23.90	0.783	0.801	0.281	0.288	
								50	24	24.00	23.75	0.763	0.808	0.274	0.290	
					Front	40620	2593.0	1	49	24.00	23.90	0.375	0.384	0.182	0.186	
								50	24	24.00	23.60	0.365	0.400	0.170	0.186	
	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	49	24.00	24.20	0.734	0.701	0.310	0.296	
								50	24	24.00	23.83	0.714	0.743	0.302	0.314	
						40185	2549.5	1	49	24.00	24.00	0.521	0.521	0.224	0.224	
								50	24	24.00	23.62	0.567	0.619	0.239	0.261	
						40620	2593.0	1	49	24.00	23.90	0.747	0.764	0.313	0.320	
								50	24	24.00	23.60	0.750	0.822	0.316	0.346	
								100	0	24.00	23.75	0.737	0.781	0.313	0.332	
						41055	2636.5	1	49	24.00	24.00	0.502	0.502	0.217	0.217	
								50	24	24.00	23.55	0.490	0.543	0.211	0.234	
						41490	2680.0	1	49	24.00	23.90	0.510	0.522	0.217	0.222	
								50	24	24.00	23.75	0.507	0.537	0.216	0.229	
					Edge 3	40620	2593.0	1	49	24.00	23.90	0.543	0.556	0.196	0.201	
								50	24	24.00	23.60	0.504	0.553	0.170	0.186	
					Edge 4	40620	2593.0	1	49	24.00	23.90	0.061	0.062	0.025	0.026	
								50	24	24.00	23.60	0.069	0.076	0.027	0.030	

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	21.50	21.50	0.757	0.757	0.307	0.307	
								50	24	21.50	21.40	0.692	0.708	0.280	0.287	
					Left Tilt	39750	2506.0	1	49	21.50	21.50	0.634	0.634	0.250	0.250	
								50	24	21.50	21.50	0.602	0.602	0.238	0.238	
						40185	2549.5	1	49	21.50	21.50	0.808	0.808	0.198	0.198	
								50	24	21.50	21.30	0.800	0.838	0.310	0.325	
						40620	2593.0	1	49	21.50	21.50	0.891	0.891	0.340	0.340	
								50	24	21.50	21.40	0.877	0.897	0.333	0.341	
								100	0	21.50	21.40	0.731	0.748	0.279	0.285	
						41055	2636.5	1	49	21.50	21.50	0.873	0.873	0.338	0.338	
								50	24	21.50	21.40	0.879	0.899	0.339	0.347	100
						41490	2680.0	1	49	21.50	21.40	0.810	0.829	0.302	0.309	
								50	24	21.50	21.40	0.814	0.833	0.304	0.311	
					Right Touch	40620	2593.0	1	49	21.50	21.50	0.744	0.744	0.295	0.295	
								50	24	21.50	21.40	0.745	0.762	0.289	0.296	
					Right Tilt	39750	2506.0	1	49	21.50	21.50	0.773	0.773	0.217	0.217	
								50	24	21.50	21.50	0.740	0.740	0.276	0.276	
						40185	2549.5	1	49	21.50	21.50	0.598	0.598	0.224	0.224	
								50	24	21.50	21.30	0.589	0.617	0.221	0.231	
						40620	2593.0	1	49	21.50	21.50	0.877	0.877	0.323	0.323	
								50	24	21.50	21.40	0.831	0.850	0.307	0.314	
								100	0	21.50	21.40	0.837	0.856	0.304	0.311	
						41055	2636.5	1	49	21.50	21.50	0.890	0.890	0.329	0.329	
								50	24	21.50	21.40	0.518	0.530	0.192	0.196	
						41490	2680.0	1	49	21.50	21.40	0.864	0.884	0.311	0.318	
								50	24	21.50	21.40	0.840	0.860	0.299	0.306	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	22.50	22.50	0.538	0.538	0.217	0.217	101
								50	24	22.30	22.25	0.443	0.448	0.170	0.172	
					Front	40620	2593.0	1	49	22.50	22.50	0.226	0.226	0.078	0.078	
								50	24	22.30	22.25	0.195	0.197	0.064	0.065	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	22.50	22.50	0.689	0.689	0.236	0.236	102
								50	24	22.30	22.25	0.627	0.634	0.209	0.211	
					Edge 2	40620	2593.0	1	49	22.50	22.50	0.082	0.082	0.032	0.032	
								50	24	22.30	22.25	0.062	0.063	0.024	0.024	
					Edge 4	40620	2593.0	1	49	22.50	22.50	0.408	0.408	0.176	0.176	
								50	24	22.30	22.25	0.293	0.296	0.129	0.130	

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	24.60	0.255	0.314	0.136	0.167	103
								50	24	24.50	23.50	0.216	0.272	0.112	0.141	
					Left Tilt	40620	2593.0	1	49	25.50	24.60	0.082	0.101	0.040	0.049	
								50	24	24.50	23.50	0.056	0.071	0.027	0.034	
					Right Touch	40620	2593.0	1	49	25.50	24.60	0.157	0.193	0.088	0.108	
								50	24	24.50	23.50	0.113	0.142	0.057	0.072	
					Right Tilt	40620	2593.0	1	49	25.50	24.60	0.072	0.089	0.035	0.043	
								50	24	24.50	23.50	0.055	0.069	0.027	0.034	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	24.00	24.00	0.811	0.811	0.352	0.352	
								50	24	24.00	23.51	0.811	0.908	0.350	0.392	
						40185	2549.5	1	49	24.00	24.00	0.892	0.892	0.368	0.368	
								50	24	24.00	23.60	0.890	0.976	0.371	0.407	
						40620	2593.0	1	49	24.00	23.63	0.854	0.930	0.346	0.377	
								50	24	24.00	23.54	0.862	0.958	0.345	0.384	
								100	0	24.00	23.70	0.842	0.902	0.338	0.362	
						41055	2636.5	1	49	24.00	23.75	0.798	0.845	0.318	0.337	
								50	24	24.00	23.66	0.823	0.890	0.325	0.351	
						41490	2680.0	1	49	24.00	23.63	0.794	0.865	0.327	0.356	
								50	24	24.00	23.44	0.738	0.840	0.317	0.361	
					Front	39750	2506.0	1	49	24.00	24.00	0.988	0.988	0.457	0.457	104
								50	24	24.00	23.51	0.856	0.958	0.387	0.433	
						40185	2549.5	1	49	24.00	24.00	0.983	0.983	0.439	0.439	
								50	24	24.00	23.60	0.895	0.981	0.393	0.431	
						40620	2593.0	1	49	24.00	23.63	0.762	0.830	0.332	0.362	
								50	24	24.00	23.54	0.741	0.824	0.321	0.357	
								100	0	24.00	23.70	0.751	0.805	0.327	0.350	
						41055	2636.5	1	49	24.00	23.75	0.747	0.791	0.320	0.339	
								50	24	24.00	23.66	0.754	0.815	0.321	0.347	
						41490	2680.0	1	49	24.00	23.63	0.679	0.739	0.285	0.310	
								50	24	24.00	23.44	0.670	0.762	0.281	0.320	
	Hotspot	QPSK	Mode B	5	Edge 3	40620	2593.0	1	49	24.00	23.63	0.433	0.472	0.202	0.220	
								50	24	24.00	23.54	0.391	0.435	0.181	0.201	
					Edge 4	40620	2593.0	1	49	24.00	23.63	0.483	0.526	0.194	0.211	
								50	24	24.00	23.54	0.425	0.472	0.165	0.183	

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	19.50	19.50	0.739	0.739	0.332	0.332	
						40185	2549.5	1	49	19.50	19.50	0.841	0.841	0.373	0.373	
						40620	2593.0	1	49	19.50	19.30	0.784	0.821	0.342	0.358	
								50	24	19.50	19.30	0.696	0.729	0.309	0.324	
						41055	2636.5	1	49	19.50	19.50	0.841	0.841	0.361	0.361	
						41490	2680.0	1	49	19.50	19.30	0.854	0.894	0.365	0.382	105
					Left Tilt	40620	2593.0	1	49	19.50	19.30	0.461	0.483	0.199	0.208	
								50	24	19.50	19.30	0.529	0.554	0.225	0.236	
					Right Touch	40620	2593.0	1	49	19.50	19.30	0.207	0.217	0.101	0.106	
								50	24	19.50	19.30	0.204	0.214	0.100	0.105	
					Right Tilt	40620	2593.0	1	49	19.50	19.30	0.178	0.186	0.087	0.091	
								50	24	19.50	19.30	0.183	0.192	0.087	0.091	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	21.70	21.70	0.829	0.829	0.380	0.380	
								50	24	21.70	21.62	0.807	0.822	0.376	0.383	
						40185	2549.5	1	49	21.70	21.47	0.759	0.800	0.349	0.368	
								50	24	21.70	21.41	0.821	0.878	0.378	0.404	106
						40620	2593.0	1	49	21.70	21.40	0.754	0.808	0.339	0.363	
								50	24	21.70	21.34	0.743	0.807	0.338	0.367	
								100	0	21.70	21.38	0.793	0.854	0.362	0.390	
						41055	2636.5	1	49	21.70	21.70	0.718	0.718	0.328	0.328	
								50	24	21.70	21.47	0.732	0.771	0.330	0.348	
						41490	2680.0	1	49	21.70	21.60	0.825	0.845	0.368	0.377	
								50	24	21.70	21.52	0.770	0.803	0.347	0.362	
					Front	40620	2593.0	1	49	21.70	21.40	0.461	0.494	0.229	0.245	
								50	24	21.70	21.34	0.424	0.460	0.208	0.226	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	21.70	21.40	0.208	0.223	0.074	0.079	
								50	24	21.70	21.34	0.186	0.202	0.066	0.072	
					Edge 2	39750	2506.0	1	49	21.70	21.70	0.742	0.742	0.351	0.351	
								50	24	21.70	21.62	0.708	0.721	0.331	0.337	
						40185	2549.5	1	49	21.70	21.47	0.778	0.820	0.364	0.384	
								50	24	21.70	21.41	0.775	0.829	0.356	0.381	
						40620	2593.0	1	49	21.70	21.40	0.694	0.744	0.329	0.353	
								50	24	21.70	21.34	0.748	0.812	0.348	0.378	
								100	0	21.70	21.38	0.726	0.782	0.343	0.370	
						41055	2636.5	1	49	21.70	21.70	0.879	0.879	0.370	0.370	107
								50	24	21.70	21.47	0.712	0.750	0.321	0.338	
						41490	2680.0	1	49	21.70	21.60	0.772	0.791	0.358	0.367	
								50	24	21.70	21.52	0.835	0.871	0.385	0.401	

10.17. LTE Band 41 Power Class 2 (20MHz Bandwidth)

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 is 1 the duty cycle is 43.3%.

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)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported SAR (W/kg)		
ANT1	Head	43.3%	27.00	217.01	63.3%	25.50	224.60	0.385	0.372	3.38%
ANT3	Head	43.3%	26.50	193.41	63.3%	25.50	224.60	0.314	0.270	13.88%

Conclusion:

ANT3 SAR test for Power Class 2 is required base on the reported SAR vs. output power linearly scaled >10%.

LTE Band 41 Power Class 2 SAR Measured Results

Antenna	RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
									Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	QPSK	0	Left Touch	40620	2593.0	1	49	26.5	26.5	0.135	0.135	0.076	0.076	166

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	25.50	24.50	0.124	0.156	0.084	0.105	
								50	24	24.50	23.50	0.104	0.131	0.070	0.088	
					Left Tilt	132322	1745.0	1	49	25.50	24.50	0.109	0.137	0.070	0.088	
								50	24	24.50	23.50	0.101	0.127	0.064	0.080	
					Right Touch	132322	1745.0	1	49	25.50	24.50	0.279	0.351	0.178	0.224	108
								50	24	24.50	23.50	0.234	0.295	0.149	0.188	
					Right Tilt	132322	1745.0	1	49	25.50	24.50	0.109	0.137	0.072	0.091	
								50	24	24.50	23.50	0.085	0.107	0.056	0.070	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	18.00	17.25	0.404	0.480	0.210	0.250	109
								50	24	18.00	17.16	0.400	0.485	0.209	0.254	
					Front	132322	1745.0	1	49	18.00	17.25	0.271	0.322	0.139	0.165	
								50	24	18.00	17.16	0.263	0.319	0.136	0.165	
	Hotspot	QPSK	Mode B	5	Edge 2	132322	1745.0	1	49	18.00	17.25	0.152	0.181	0.084	0.100	
								50	24	18.00	17.16	0.167	0.203	0.092	0.112	
					Edge 3	132072	1720.0	1	49	18.00	17.25	0.659	0.783	0.303	0.360	
								50	24	18.00	17.20	0.649	0.780	0.299	0.359	
						132322	1745.0	1	49	18.00	17.25	0.767	0.912	0.357	0.424	
								50	24	18.00	17.16	0.758	0.920	0.350	0.425	110
								100	0	18.00	17.20	0.747	0.898	0.346	0.416	
						132572	1770.0	1	49	18.00	17.25	0.682	0.811	0.315	0.374	
								50	24	18.00	17.16	0.673	0.817	0.312	0.379	
					Edge 4	132322	1745.0	1	49	18.00	17.25	0.017	0.020	0.010	0.012	
								50	24	18.00	17.16	0.016	0.019	0.008	0.010	

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	132322	1745.0	1	49	20.20	19.70	0.341	0.382	0.172	0.193	
								50	24	20.20	19.80	0.341	0.374	0.172	0.189	
					Left Tilt	132322	1745.0	1	49	20.20	19.70	0.429	0.481	0.209	0.234	
								50	24	20.20	19.80	0.425	0.466	0.206	0.226	
					Right Touch	132072	1720.0	1	49	20.20	20.11	0.844	0.862	0.419	0.428	
								50	24	20.20	20.20	0.827	0.827	0.409	0.409	
						132322	1745.0	1	49	20.20	19.70	0.751	0.842	0.372	0.417	
								50	24	20.20	19.80	0.744	0.816	0.368	0.404	
								100	0	20.20	19.80	0.805	0.883	0.394	0.432	
						132572	1770.0	1	49	20.20	19.40	0.647	0.778	0.318	0.382	
								50	24	20.20	19.50	0.640	0.752	0.314	0.369	
					Right Tilt	132072	1720.0	1	49	20.20	20.11	0.868	0.886	0.411	0.420	111
						132322	1745.0	1	49	20.20	19.70	0.732	0.821	0.341	0.382	
								50	24	20.20	19.80	0.721	0.791	0.334	0.366	
						132572	1770.0	1	49	20.20	19.40	0.581	0.699	0.270	0.325	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	19.00	18.60	0.802	0.879	0.382	0.419	
								50	24	19.00	18.50	0.795	0.892	0.377	0.423	112
						132322	1745.0	1	49	19.00	18.30	0.732	0.860	0.346	0.407	
								50	24	19.00	18.60	0.745	0.817	0.350	0.384	
								100	0	19.00	18.70	0.574	0.615	0.276	0.296	
						132572	1770.0	1	49	19.00	18.20	0.600	0.721	0.278	0.334	
								50	24	19.00	18.20	0.586	0.705	0.272	0.327	
					Front	132322	1745.0	1	49	19.00	18.30	0.396	0.465	0.198	0.233	
								50	24	19.00	18.60	0.393	0.431	0.197	0.216	
	Hotspot	QPSK	Mode B	5	Edge 1	132072	1720.0	1	49	19.00	18.60	0.818	0.897	0.390	0.428	113
								50	24	19.00	18.50	0.791	0.888	0.366	0.411	
						132322	1745.0	1	49	19.00	18.30	0.703	0.826	0.335	0.394	
								50	24	19.00	18.60	0.818	0.897	0.370	0.406	
								100	0	19.00	18.70	0.821	0.880	0.372	0.399	
						132572	1770.0	1	49	19.00	18.20	0.700	0.842	0.323	0.388	
								50	24	19.00	18.20	0.688	0.827	0.312	0.375	
					Edge 2	132322	1745.0	1	49	19.00	18.30	0.005	0.006	0.004	0.004	
								50	24	19.00	18.60	0.004	0.005	0.003	0.003	
					Edge 4	132322	1745.0	1	49	19.00	18.30	0.308	0.362	0.168	0.197	
								50	24	19.00	18.60	0.287	0.315	0.156	0.171	

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	24.88	0.319	0.328	0.206	0.212	114
								50	24	24.00	24.00	0.266	0.266	0.171	0.171	
					Left Tilt	132322	1745.0	1	49	25.00	24.88	0.204	0.209	0.122	0.125	
								50	24	24.00	24.00	0.166	0.166	0.100	0.100	
					Right Touch	132322	1745.0	1	49	25.00	24.88	0.208	0.214	0.133	0.137	
								50	24	24.00	24.00	0.161	0.161	0.103	0.103	
					Right Tilt	132322	1745.0	1	49	25.00	24.88	0.133	0.137	0.085	0.087	
								50	24	24.00	24.00	0.109	0.109	0.068	0.068	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	22.00	21.62	0.745	0.813	0.421	0.459	
								50	24	22.00	21.61	0.723	0.791	0.418	0.457	
						132322	1745.0	1	49	22.00	21.67	0.864	0.932	0.483	0.521	
								50	24	22.00	21.62	0.798	0.871	0.451	0.492	
								100	0	22.00	21.64	0.800	0.869	0.449	0.488	
						132572	1770.0	1	49	22.00	21.85	0.919	0.951	0.502	0.520	115
								50	24	22.00	21.83	0.908	0.944	0.501	0.521	
					Front	132322	1745.0	1	49	22.00	21.67	0.477	0.515	0.273	0.295	
								50	24	22.00	21.62	0.459	0.501	0.263	0.287	
	Hotspot	QPSK	Mode B	5	Edge 3	132322	1745.0	1	49	22.00	21.67	0.293	0.316	0.141	0.152	
								50	24	22.00	21.62	0.290	0.317	0.139	0.152	
					Edge 4	132072	1720.0	1	49	22.00	21.62	0.676	0.738	0.360	0.393	
								50	24	22.00	21.61	0.621	0.679	0.331	0.362	
						132322	1745.0	1	49	22.00	21.67	0.762	0.822	0.403	0.435	
								50	24	22.00	21.62	0.750	0.819	0.396	0.432	
								100	0	22.00	21.64	0.577	0.627	0.312	0.339	
						132572	1770.0	1	49	22.00	21.85	0.742	0.768	0.394	0.408	
								50	24	22.00	21.83	0.649	0.675	0.348	0.362	

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	132072	1720.0	1	49	22.50	21.83	0.669	0.780	0.349	0.407	
						132322	1745.0	1	49	22.50	22.00	0.792	0.889	0.405	0.454	116
								50	24	22.00	20.96	0.562	0.714	0.290	0.368	
						132572	1770.0	1	49	22.50	22.50	0.872	0.872	0.444	0.444	
					Left Tilt	132322	1745.0	1	49	22.50	22.00	0.601	0.674	0.291	0.327	
								50	24	22.00	20.96	0.474	0.602	0.226	0.287	
					Right Touch	132322	1745.0	1	49	22.50	22.00	0.201	0.226	0.112	0.126	
								50	24	22.00	20.96	0.164	0.208	0.092	0.117	
					Right Tilt	132322	1745.0	1	49	22.50	22.00	0.179	0.201	0.098	0.110	
								50	24	22.00	20.96	0.139	0.177	0.076	0.097	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	22.50	22.10	0.442	0.485	0.236	0.259	
								50	24	22.00	21.40	0.442	0.507	0.228	0.262	117
					Front	132322	1745.0	1	49	22.50	22.10	0.326	0.357	0.171	0.187	
								50	24	22.00	21.40	0.257	0.295	0.135	0.155	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	22.50	22.10	0.357	0.391	0.171	0.187	
								50	24	22.00	21.40	0.290	0.333	0.138	0.158	
					Edge 2	132072	1720.0	1	49	22.50	21.83	0.746	0.870	0.353	0.412	
								50	24	22.00	20.92	0.647	0.829	0.306	0.392	
						132322	1745.0	1	49	22.50	22.10	0.813	0.891	0.386	0.423	118
								50	24	22.00	21.40	0.766	0.879	0.358	0.411	
								100	0	22.00	20.93	0.600	0.767	0.287	0.367	
						132572	1770.0	1	49	22.50	21.90	0.753	0.864	0.359	0.412	
								50	24	22.00	20.97	0.645	0.819	0.307	0.390	

10.19. LTE Band 71 (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	133297	680.5	1	49	25.50	24.50	0.199	0.251	0.156	0.196	
								50	24	24.50	23.50	0.147	0.185	0.117	0.147	
					Left Tilt	133297	680.5	1	49	25.50	24.50	0.142	0.179	0.115	0.145	
								50	24	24.50	23.50	0.107	0.135	0.087	0.110	
					Right Touch	133297	680.5	1	49	25.50	24.50	0.228	0.287	0.178	0.224	119
								50	24	24.50	23.50	0.178	0.224	0.139	0.175	
					Right Tilt	133297	680.5	1	49	25.50	24.50	0.108	0.136	0.088	0.111	
								50	24	24.50	23.50	0.087	0.110	0.071	0.089	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	25.50	24.50	0.432	0.544	0.306	0.385	120
								50	24	24.50	23.50	0.341	0.429	0.219	0.276	
					Front	133297	680.5	1	49	25.50	24.50	0.289	0.364	0.181	0.228	
								50	24	24.50	23.50	0.230	0.290	0.143	0.180	
	Hotspot	QPSK	Mode B	5	Edge 2	133297	680.5	1	49	25.50	24.50	0.546	0.687	0.370	0.466	121
								50	24	24.50	23.50	0.437	0.550	0.296	0.373	
					Edge 3	133297	680.5	1	49	25.50	24.50	0.307	0.386	0.140	0.176	
								50	24	24.50	23.50	0.247	0.311	0.112	0.141	
					Edge 4	133297	680.5	1	49	25.50	24.50	0.207	0.261	0.140	0.176	
								50	24	24.50	23.50	0.168	0.211	0.113	0.142	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	133297	680.5	1	49	24.50	23.80	0.292	0.343	0.220	0.258	
								50	24	23.50	22.70	0.232	0.279	0.174	0.209	
					Left Tilt	133297	680.5	1	49	24.50	23.80	0.289	0.340	0.175	0.206	
								50	24	23.50	22.70	0.231	0.278	0.140	0.168	
					Right Touch	133297	680.5	1	49	24.50	23.80	0.399	0.469	0.265	0.311	
								50	24	23.50	22.70	0.327	0.393	0.216	0.260	
					Right Tilt	133297	680.5	1	49	24.50	23.80	0.420	0.493	0.233	0.274	122
								50	24	23.50	22.70	0.341	0.410	0.189	0.227	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	24.50	23.80	0.325	0.382	0.202	0.237	123
								50	24	23.50	22.70	0.256	0.308	0.159	0.191	
					Front	133297	680.5	1	49	24.50	23.80	0.157	0.184	0.118	0.139	
								50	24	23.50	22.70	0.126	0.151	0.095	0.114	
	Hotspot	QPSK	Mode B	5	Edge 1	133297	680.5	1	49	24.50	23.80	0.091	0.106	0.045	0.053	
								50	24	23.50	22.70	0.063	0.076	0.033	0.040	
					Edge 2	133297	680.5	1	49	24.50	23.80	0.099	0.116	0.066	0.078	
								50	24	23.50	22.70	0.077	0.093	0.052	0.063	
					Edge 4	133297	680.5	1	49	24.50	23.80	0.243	0.286	0.166	0.195	
								50	24	23.50	22.70	0.195	0.234	0.132	0.159	

10.20. LTE-uplink 2CA Band 7 (20MHz + 20MHz BW)

SAR Testing was performed on each antenna – ANT1, ANT2, ANT3, and ANT4 – separately using the corresponding power modes: Mode A and Mode B. Mode A power was used when the DUT was tested on Head exposure condition. Mode B power was used when the DUT was tested on Body-worn & Hotspot exposure condition.

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 offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Body	QPSK	Mode B	5	Rear	21152	2540.2	1	99	21350	2560.0	1	0	21.50	21.00	0.775	0.870	0.294	0.330	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21152	2540.2	1	99	21350	2560.0	1	0	19.70	19.30	0.782	0.857	0.308	0.338	
ANT 3	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	21.00	20.50	0.652	0.732	0.279	0.313	
ANT 4	Head	QPSK	Mode A	0	Left Touch	21152	2540.2	1	99	21350	2560.0	1	0	18.00	17.30	0.742	0.872	0.348	0.409	167

10.21. LTE-uplink 2CA Band 41 PC3 (20MHz + 20MHz BW)

SAR Testing was performed on each antenna – ANT1, ANT2, ANT3, and ANT4 – separately using the corresponding power modes: Mode A and Mode B. Mode A power was used when the DUT was tested on Head exposure condition. Mode B power was used when the DUT was tested on Body-worn & Hotspot exposure condition.

From May 2017 TCB Workshop, HPUE Power Class 2 allows 26±2 dBm and does not support uplink-downlink configurations 0 and 6 or inter-band CA

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 offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	24.00	23.60	0.817	0.896	0.310	0.340	168
ANT 2	Head	QPSK	Mode A	0	Left Tilt	40956	2626.6	1	99	41154	2646.4	1	0	21.50	20.60	0.702	0.864	0.189	0.233	
ANT 3	Body	QPSK	Mode B	5	Front	39750	2506.0	1	99	39948	2525.8	1	0	24.00	23.90	0.827	0.846	0.360	0.368	
ANT 4	Head	QPSK	Mode A	0	Left Touch	41292	2660.2	1	99	41490	2680.0	1	0	19.50	19.10	0.636	0.697	0.309	0.339	

10.22. 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	Pcell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	0.282	100.0%	22.00	22.00	0.240	0.240	0.123	0.123	124
						Left Tilt	6	2437	0.042	100.0%	22.00	22.00					
						Right Touch	6	2437	0.065	100.0%	22.00	22.00					
						Right Tilt	6	2437	0.028	100.0%	22.00	22.00					
		Body & Hotspot	802.11b	Mode B	5	Rear	1	2412	1.39	100.0%	20.00	20.00	0.822	0.822	0.381	0.381	
							6	2437	1.55	100.0%	20.00	20.00	0.995	0.995	0.442	0.442	
							11	2462	1.39	100.0%	20.00	20.00	1.110	1.110	0.479	0.479	125
						Front	6	2437	0.808	100.0%	20.00	20.00	0.676	0.676	0.325	0.325	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.541	100.0%	20.00	20.00					
						Edge 4	6	2437	0.344	100.0%	20.00	20.00					
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Pcell OFF	Head	802.11b	Mode A	0	Left Touch	1	2412	1.98	100.0%	19.00	19.00	1.100	1.100	0.492	0.492	
							6	2437	1.44	100.0%	19.00	19.00	1.160	1.160	0.527	0.527	126
							11	2462	1.67	100.0%	19.00	19.00	1.070	1.070	0.496	0.496	
						Left Tilt	6	2437	1.12	100.0%	19.00	19.00	0.804	0.804	0.393	0.393	
							11	2462	1.59	100.0%	19.00	19.00	1.060	1.060	0.498	0.498	
						Right Touch	6	2437	0.467	100.0%	19.00	19.00	0.375	0.375	0.196	0.196	
						Right Tilt	6	2437	0.461	100.0%	19.00	19.00	0.342	0.342	0.171	0.171	
		Body & Hotspot	802.11b	Mode B	5	Rear	1	2412	1.49	100.0%	19.50	19.50	1.090	1.090	0.520	0.520	127
							6	2437	1.56	100.0%	19.50	19.50	1.020	1.020	0.480	0.480	
							11	2462	1.11	100.0%	19.50	19.45	0.895	0.905	0.424	0.429	
						Front	6	2437	0.687	100.0%	19.50	19.50	0.558	0.558	0.281	0.281	
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.342	100.0%	19.50	19.50					
						Edge 2	6	2437	0.752	100.0%	19.50	19.50	0.571	0.571	0.280	0.280	
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	Pcell ON	Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.539	100.0%	16.00	16.00	0.382	0.382	0.175	0.175	128
						Front	6	2437	0.396	100.0%	16.00	16.00	0.298	0.298	0.136	0.136	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.215	100.0%	16.00	16.00					
						Edge 4	6	2437	0.134	100.0%	16.00	16.00					
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Pcell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.547	100.0%	15.50	15.50	0.460	0.460	0.205	0.205	129
						Left Tilt	6	2437	0.402	100.0%	15.50	15.50	0.270	0.270	0.121	0.121	
						Right Touch	6	2437	0.262	100.0%	15.50	15.50					
						Right Tilt	6	2437	0.241	100.0%	15.50	15.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.67	100.0%	16.00	16.00	0.517	0.517	0.247	0.247	130
						Front	6	2437	0.369	100.0%	16.00	16.00	0.442	0.442	0.227	0.227	
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.12	100.0%	16.00	16.00					
						Edge 2	6	2437	0.179	100.0%	16.00	16.00					

10.23. 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	Pcell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.057	97.8%	22.00	21.90	0.017	0.018	0.004	0.004	
							Left Tilt	54	5270	0.026	97.8%	22.00	21.90					
							Right Touch	54	5270	0.075	97.8%	22.00	21.90	0.030	0.031	0.008	0.008	131
							Right Tilt	54	5270	0.037	97.8%	22.00	21.90					
		U-NII-2A	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	58	5290	2.620	95.6%	17.50	17.50	1.120	1.172	0.328	0.343	132
							Front	58	5290	0.077	95.6%	17.50	17.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	58	5290	0.497	95.6%	17.50	17.50	0.232	0.243	0.073	0.076	
							Edge 4	58	5290	0.444	95.6%	17.50	17.50	0.106	0.111	0.030	0.031	
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	Pcell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.183	95.6%	22.00	21.90	0.096	0.103	0.025	0.027	133
							Left Tilt	138	5690	0.047	95.6%	22.00	21.90					
							Right Touch	138	5690	0.045	95.6%	22.00	21.90					
							Right Tilt	138	5690	0.018	95.6%	22.00	21.90					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	2.250	95.6%	17.00	17.00	1.130	1.182	0.344	0.360	134
								122	5610	1.410	95.6%	17.00	17.00	0.939	0.982	0.285	0.298	
								138	5690	1.690	95.6%	17.00	17.00	1.070	1.119	0.344	0.360	
							Front	138	5690	0.094	95.6%	17.00	17.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.357	95.6%	17.00	17.00					
							Edge 4	138	5690	0.072	95.6%	17.00	17.00					
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	Pcell OFF	U-NII-3	Head	802.11a	Mode A	0	Left Touch	157	5785	0.284	98.9%	22.50	22.50	0.162	0.164	0.052	0.053	135
							Left Tilt	157	5785	0.022	98.9%	22.50	22.50					
							Right Touch	157	5785	0.081	98.9%	22.50	22.50					
							Right Tilt	157	5785	0.047	98.9%	22.50	22.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.710	95.6%	18.00	18.00	1.020	1.067	0.298	0.312	136
							Front	155	5775	0.076	95.6%	18.00	18.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.375	95.6%	18.00	18.00	0.188	0.197	0.067	0.070	
							Edge 4	155	5775	0.077	95.6%	18.00	18.00					
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell OFF	U-NII-1	Head	802.11n (HT40)	Mode A	0	Left Touch	46	5230	0.690	97.8%	22.00	22.00					
							Left Tilt	46	5230	0.961	97.8%	22.00	22.00	0.645	0.659	0.172	0.176	
							Right Touch	38	5190	0.711	97.8%	18.50	18.50	0.524	0.536	0.134	0.137	
								46	5230	1.560	97.8%	22.00	22.00	0.977	0.999	0.262	0.268	137
							Right Tilt	38	5190	0.895	97.8%	18.50	18.50	0.460	0.470	0.148	0.151	
								46	5230	1.580	97.8%	22.00	22.00	0.962	0.983	0.287	0.293	
			Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	0.864	97.8%	18.50	18.50	0.505	0.516	0.150	0.153	
								46	5230	1.270	97.8%	22.00	22.00	0.820	0.838	0.242	0.247	138
							Front	46	5230	0.485	97.8%	22.00	22.00	0.293	0.299	0.093	0.095	
			Airplay	802.11n (HT40)	Mode B	5	Edge 1	46	5230	0.400	97.8%	22.00	22.00					
							Edge 4	38	5190	1.100	97.8%	18.50	18.50	0.769	0.786	0.242	0.247	
								46	5230	1.820	97.8%	22.00	22.00	1.090	1.114	0.347	0.355	139
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.762	95.6%	19.50	19.50	0.406	0.425	0.128	0.134	
							Left Tilt	138	5690	1.010	95.6%	19.50	19.50	0.502	0.525	0.143	0.150	
							Right Touch	106	5530	1.180	95.6%	17.50	17.50	0.485	0.507	0.183	0.191	
								122	5610	2.310	95.6%	19.50	19.50	0.950	0.994	0.307	0.321	
								138	5690	2.350	95.6%	19.50	19.50	1.140	1.193	0.380	0.398	140
							Right Tilt	122	5610	1.570	95.6%	19.50	19.50	0.777	0.813	0.255	0.267	
								138	5690	1.610	95.6%	19.50	19.50	0.729	0.763	0.234	0.245	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	2.410	95.6%	17.00	17.00	0.988	1.034	0.264	0.276	
								138	5690	1.710	95.6%	17.00	17.00	1.110	1.161	0.278	0.291	141
							Front	138	5690	0.114	95.6%	17.00	17.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	138	5690	0.474	95.6%	17.00	17.00	0.205	0.214	0.052	0.054	
							Edge 4	122	5610	2.260	95.6%	17.00	17.00	1.100	1.151	0.338	0.354	
								138	5690	1.940	95.6%	17.00	17.00	1.000	1.046	0.303	0.317	
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.517	95.6%	22.00	22.00					
							Left Tilt	155	5775	0.629	95.6%	22.00	22.00	0.374	0.391	0.099	0.104	
							Right Touch	155	5775	1.210	95.6%	22.00	22.00	0.944	0.988	0.282	0.295	142
							Right Tilt	155	5775	1.110	95.6%	22.00	22.00	0.653	0.683	0.209	0.219	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.700	95.6%	18.50	18.50	1.040	1.088	0.275	0.288	143
							Front	155	5775	0.798	95.6%	18.50	18.50	0.431	0.451	0.150	0.157	
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.549	95.6%	18.50	18.50					
							Edge 4	155	5775	1.810	95.6%	18.50	18.50	1.050	1.098	0.330	0.345	144

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	Pcell ON	U-NII-1	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.575	95.6%	12.50	12.50	0.347	0.363	0.096	0.100	145
							Front	42	5210	0.022	95.6%	12.50	12.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.082	95.6%	12.50	12.50					
							Edge 4	42	5210	0.036	95.6%	12.50	12.50	0.003	0.003	-	-	
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	Pcell ON	U-NII-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	138	5690	0.783	95.6%	12.00	12.00	0.332	0.347	0.094	0.098	146
							Front	138	5690	0.0216	95.6%	12.00	12.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.129	95.6%	12.00	12.00					
							Edge 4	138	5690	0.015	95.6%	12.00	12.00					
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	Pcell ON	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.432	95.6%	12.00	11.90	0.308	0.330	0.085	0.091	147
							Front	155	5775	0.0199	95.6%	12.00	11.90					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.0995	95.6%	12.00	11.90					
							Edge 4	155	5775	0.0392	95.6%	12.00	11.90					
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell ON	U-NII-1	Head	802.11n (HT40)	Mode A	0	Left Touch	46	5230	0.201	97.8%	18.50	18.50					
							Left Tilt	46	5230	0.21	97.8%	18.50	18.50					
							Right Touch	46	5230	0.678	97.8%	18.50	18.50	0.414	0.423	0.107	0.109	148
							Right Tilt	46	5230	0.585	97.8%	18.50	18.50	0.243	0.248	0.072	0.074	
			Body & Airplay	802.11n (HT40)	Mode B	5	Rear	46	5230	0.557	97.8%	18.50	18.20	0.409	0.448	0.112	0.123	149
							Front	46	5230	0.556	97.8%	18.50	18.20					
			Airplay	802.11n (HT40)	Mode B	5	Edge 1	46	5230	0.428	97.8%	18.50	18.20					
							Edge 4	46	5230	0.717	97.8%	18.50	18.20	0.391	0.428	0.105	0.115	
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.318	95.6%	15.50	15.50					
							Left Tilt	138	5690	0.402	95.6%	15.50	15.50					
							Right Touch	138	5690	0.693	95.6%	15.50	15.50	0.368	0.385	0.130	0.136	150
							Right Tilt	138	5690	0.921	95.6%	15.50	15.50	0.338	0.354	0.118	0.123	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.599	95.6%	13.50	13.50	0.359	0.376	0.100	0.105	
							Front	122	5610	0.32	95.6%	13.50	13.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.157	95.6%	13.50	13.50					
							Edge 4	122	5610	0.552	95.6%	13.50	13.50	0.389	0.407	0.114	0.119	151
Antenna	WWAN Power	Antenna	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	
ANT6	Pcell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.250	95.6%	18.25	18.25					
							Left Tilt	155	5775	0.380	95.6%	18.25	18.25					
							Right Touch	155	5775	1.020	95.6%	18.25	18.25	0.410	0.429	0.127	0.133	152
							Right Tilt	155	5775	0.683	95.6%	18.25	18.25	0.246	0.257	0.083	0.087	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.779	95.6%	14.50	14.50	0.353	0.369	0.094	0.098	153
							Front	155	5775	0.361	95.6%	14.50	14.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.118	95.6%	14.50	14.50					
							Edge 4	155	5775	0.631	95.6%	14.50	14.50	0.299	0.313	0.092	0.096	

Note(s):

1. For results listed with "-", the SAR result is less than 0.001 W/kg.

10.24. Bluetooth

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 Plow	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	11.00	11.00	0.036	0.036	0.016	0.016	154
					Left Tilt	39	2441	100.0%	11.00	11.00	0.015	0.015	0.005	0.005	
					Right Touch	39	2441	100.0%	11.00	11.00	0.031	0.031	0.014	0.014	
					Right Tilt	39	2441	100.0%	11.00	11.00	0.014	0.014	0.004	0.004	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	10.50	10.50	0.088	0.088	0.037	0.037	155
					Front	39	2441	100.0%	10.50	10.50	0.041	0.041	0.018	0.018	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	10.50	10.50	0.032	0.032	0.014	0.014	
					Edge 4	39	2441	100.0%	10.50	10.50	0.009	0.009	0.003	0.003	

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 Phigh	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	20.00	20.00	0.214	0.214	0.118	0.118	156
					Left Tilt	39	2441	100.0%	20.00	20.00	0.077	0.077	0.031	0.031	
					Right Touch	39	2441	100.0%	20.00	20.00	0.175	0.175	0.089	0.089	
					Right Tilt	39	2441	100.0%	20.00	20.00	0.084	0.084	0.035	0.035	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	14.50	14.50	0.205	0.205	0.093	0.093	157
					Front	39	2441	100.0%	14.50	14.50	0.148	0.148	0.072	0.072	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	14.50	14.50	0.082	0.082	0.046	0.046	
					Edge 4	39	2441	100.0%	14.50	14.50	0.063	0.063	0.021	0.021	

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 Pstandlone	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	20.00	20.00	0.345	0.345	0.164	0.164	158
					Left Tilt	39	2441	100.0%	20.00	20.00	0.128	0.128	0.064	0.064	
					Right Touch	39	2441	100.0%	20.00	20.00	0.211	0.211	0.112	0.112	
					Right Tilt	39	2441	100.0%	20.00	20.00	0.157	0.157	0.065	0.065	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	17.00	17.00	0.433	0.433	0.170	0.170	159
					Front	39	2441	100.0%	17.00	17.00	0.247	0.247	0.124	0.124	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	17.00	17.00	0.122	0.122	0.061	0.061	
					Edge 4	39	2441	100.0%	17.00	17.00	0.098	0.098	0.040	0.040	

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 Plow	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	10.00	10.00	0.075	0.075	0.038	0.038	160
					Left Tilt	39	2441	100.0%	10.00	10.00	0.059	0.059	0.026	0.026	
					Right Touch	39	2441	100.0%	10.00	10.00	0.024	0.024	0.011	0.011	
					Right Tilt	39	2441	100.0%	10.00	10.00	0.020	0.020	0.008	0.008	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	10.00	10.00	0.066	0.066	0.028	0.028	161
					Front	39	2441	100.0%	10.00	10.00	0.034	0.034	0.017	0.017	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	10.00	10.00	0.023	0.023	0.006	0.006	
					Edge 2	39	2441	100.0%	10.00	10.00	0.052	0.052	0.024	0.024	

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 Phigh	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	13.50	13.50	0.183	0.183	0.082	0.082	162
					Left Tilt	39	2441	100.0%	13.50	13.50	0.165	0.165	0.077	0.077	
					Right Touch	39	2441	100.0%	13.50	13.50	0.069	0.069	0.034	0.034	
					Right Tilt	39	2441	100.0%	13.50	13.50	0.055	0.055	0.026	0.026	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	14.00	14.00	0.236	0.236	0.108	0.108	163
					Front	39	2441	100.0%	14.00	14.00	0.121	0.121	0.061	0.061	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	14.00	14.00	0.071	0.071	0.022	0.022	
					Edge 2	39	2441	100.0%	14.00	14.00	0.171	0.171	0.078	0.078	

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 Pstandlone	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	16.00	16.00	0.341	0.341	0.157	0.157	164
					Left Tilt	39	2441	100.0%	16.00	16.00	0.313	0.313	0.131	0.131	
					Right Touch	39	2441	100.0%	16.00	16.00	0.130	0.130	0.065	0.065	
					Right Tilt	39	2441	100.0%	16.00	16.00	0.091	0.091	0.047	0.047	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	16.50	16.50	0.424	0.424	0.190	0.190	165
					Front	39	2441	100.0%	16.50	16.50	0.227	0.227	0.113	0.113	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	16.50	16.50	0.086	0.086	0.037	0.037	
					Edge 2	39	2441	100.0%	16.50	16.50	0.229	0.229	0.111	0.111	

11. SAR Measurement Variability

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

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

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
700	LTE Band 12	Hotspot	Edge 2	No	0.573	N/A	N/A
	LTE Band 13	Hotspot	Edge 2	No	0.702	N/A	N/A
	LTE Band 14	Hotspot	Edge 2	No	0.690	N/A	N/A
	LTE Band 71	Hotspot	Edge 2	No	0.546	N/A	N/A
850	GSM 850	Body	Rear	No	0.553	N/A	N/A
	WCDMA Band 5	Body	Rear	No	0.552	N/A	N/A
	CDMA BC10	Body	Rear	No	0.481	N/A	N/A
	CDMA BC0	Hotspot	Edge 2	No	0.519	N/A	N/A
	LTE Band 26	Body	Rear	No	0.568	N/A	N/A
1700	WCDMA Band 4	Body	Rear	No	0.888	N/A	N/A
	LTE Band 66	Body	Rear	Yes	0.919	0.925	1.01
1900	GSM 1900	Body	Rear	Yes	0.907	0.833	1.09
	WCDMA Band 2	Body	Rear	No	0.891	N/A	N/A
	CDMA BC1	Hotspot	Edge 2	No	0.902	N/A	N/A
	LTE Band 25	Body	Rear	No	0.885	N/A	N/A
2300	LTE Band 30	Body	Rear	Yes	0.897	0.893	1.00
2400	Wi-Fi 802.11b/g/n	Head	Left Touch	Yes	1.160	1.150	1.01
	BT	Body	Rear	No	0.433	N/A	N/A
2600	LTE Band 7	Body	Rear	No	0.937	N/A	N/A
	LTE Band 41	Body	Front	Yes	0.988	0.960	1.03
5200	Wi-Fi 802.11a/n/ac	Body	Rear	Yes	1.120	1.140	1.02
5300	Wi-Fi 802.11a/n/ac	Airplay	Edge 4	Yes	0.997	1.030	1.03
5500	Wi-Fi 802.11a/n/ac	Head	Right Touch	Yes	1.140	1.130	1.01
5800	Wi-Fi 802.11a/n/ac	Airplay	Edge 4	Yes	1.050	1.090	1.04

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:

SAR_1 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

SAR_2 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 SAR_1.or SAR_2. 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 <1.6W/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.

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 2.4GHz) Airplay (for 2.4/5 GHz)	1	WWAN OFF (CELLULAR ANTENNAS OFF)	+ (ANT5) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P_{High})
	2		+ (ANT6) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P_{High})
	3		+ Wi-Fi 5 GHz MIMO	+	(ANT3) Bluetooth (P_{High})
	4		+ (ANT5) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P_{High})
	5		+ (ANT6) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P_{High})
	6		+ Wi-Fi 5 GHz MIMO	+	(ANT4) Bluetooth (P_{High})
	7	WWAN ON (CELLULAR ANTENNAS ON)	+ (ANT3) Wi-Fi 2.4 GHz SISO		
	8		+ (ANT4) Wi-Fi 2.4 GHz SISO		
	9		+ Wi-Fi 2.4 GHz MIMO		
	10			+	(ANT3) Bluetooth (P_{High})
	11			+	(ANT4) Bluetooth (P_{High})
	12		+ (ANT5) Wi-Fi 5 GHz SISO		
	13		+ (ANT6) Wi-Fi 5 GHz SISO		
	14		+ Wi-Fi 5 GHz MIMO		
	15		+ (ANT5) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P_{low})
	16		+ (ANT6) Wi-Fi 5 GHz SISO	+	(ANT3) Bluetooth (P_{low})
	17		+ Wi-Fi 5 GHz MIMO	+	(ANT3) Bluetooth (P_{low})
	18		+ (ANT5) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P_{low})
	19		+ (ANT6) Wi-Fi 5 GHz SISO	+	(ANT4) Bluetooth (P_{low})
	20		+ Wi-Fi 5 GHz MIMO	+	(ANT4) Bluetooth (P_{low})

Note(s):

1. Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.
2. Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
3. WWAN ANT1, ANT2, ANT3, and ANT4 cannot transmit simultaneously.
4. Bluetooth P_{low} is used with Wi-Fi and WWAN antennas are active.
5. Bluetooth P_{high} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
6. Bluetooth $P_{standalone}$ is used with Wi-Fi and WWAN antennas are inactive.
7. Condition 3 is covered by conditions 1 and 2.
8. Condition 6 is covered by conditions 4 and 5.
9. Condition 17 is covered by conditions 15 and 16.
10. 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)				∑ 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	0.164	0.425	0.214	0.183	0.378	0.347	0.639	0.608
	Left Tilt	0.031	0.659	0.077	0.165	0.108	0.196	0.736	0.824
	Right Touch	0.031	1.193	0.175	0.069	0.206	0.100	1.368	1.262
	Right Tilt	0.031	0.983	0.084	0.055	0.115	0.086	1.067	1.038
Body-worn & Airplay	Rear	1.182	1.161	0.205	0.236	1.387	1.418	1.366	1.397
	Front	0.111	0.451	0.148	0.121	0.259	0.232	0.599	0.572
Airplay	Edge 1		0.214		0.071			0.214	0.285
	Edge 2				0.171				
	Edge 3	0.243		0.082		0.325	0.243		
	Edge 4	0.111	1.151	0.063		0.174	0.111	1.214	1.151

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.332	0.240	0.460	0.214	0.183	0.572	0.792	0.546	0.515
	Left Tilt	0.313	0.240	0.270	0.077	0.165	0.553	0.583	0.390	0.478
	Right Touch	0.721	0.240	0.270	0.175	0.069	0.961	0.991	0.896	0.790
	Right Tilt	0.213	0.240	0.270	0.084	0.055	0.453	0.483	0.297	0.268
Body-worn & Hotspot	Rear	0.993	0.382	0.517	0.205	0.236	1.375	1.510	1.198	1.229
	Front	0.603	0.298	0.442	0.148	0.121	0.901	1.045	0.751	0.724
Hotspot	Edge 2	0.970		0.442		0.171	0.970	1.412	0.970	1.141
	Edge 3	0.920	0.298		0.082		1.218	0.920	1.002	0.920
	Edge 4	0.374	0.298		0.063		0.672	0.374	0.437	0.374
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.332	0.164	0.354	0.036	0.075	0.532	0.571	0.722	0.761
	Left Tilt	0.313	0.031	0.354	0.015	0.059	0.359	0.403	0.682	0.726
	Right Touch	0.721	0.031	0.429	0.031	0.024	0.784	0.777	1.181	1.174
	Right Tilt	0.213	0.031	0.354	0.014	0.020	0.258	0.264	0.581	0.587
Body-worn & Airplay	Rear	0.993	0.363	0.448	0.088	0.066	1.444	1.422	1.529	1.507
	Front	0.603	0.363	0.428	0.041	0.034	1.007	1.000	1.072	1.065
Airplay	Edge 2	0.970				0.052	0.970	1.022	0.970	1.022
	Edge 3	0.920	0.363		0.032		1.315	1.283	0.952	0.920
	Edge 4	0.374	0.003	0.428	0.009		0.386	0.377	0.811	0.802

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.757	0.240	0.460	0.214	0.183	0.997	1.217	0.971	0.940
	Left Tilt	0.899	0.240	0.270	0.077	0.165	1.139	1.169	0.976	1.064
	Right Touch	0.888	0.240	0.270	0.175	0.069	1.128	1.158	1.063	0.957
	Right Tilt	0.899	0.240	0.270	0.084	0.055	1.139	1.169	0.983	0.954
Body-worn & Hotspot	Rear	0.892	0.382	0.517	0.205	0.236	1.274	1.409	1.097	1.128
	Front	0.622	0.298	0.442	0.148	0.121	0.920	1.064	0.770	0.743
Hotspot	Edge 1	0.897		0.442		0.071	0.897	1.339	0.897	0.968
	Edge 2	0.258		0.442		0.171	0.258	0.700	0.258	0.429
	Edge 4	0.805	0.298		0.063		1.103	0.805	0.868	0.805
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.757	0.164	0.354	0.036	0.075	0.957	0.996	1.147	1.186
	Left Tilt	0.899	0.031	0.354	0.015	0.059	0.945	0.989	1.268	1.312
	Right Touch	0.888	0.031	0.429	0.031	0.024	0.950	0.943	1.348	1.341
	Right Tilt	0.899	0.031	0.354	0.014	0.020	0.944	0.950	1.267	1.273
Body-worn & Airplay	Rear	0.892	0.363	0.448	0.088	0.066	1.343	1.321	1.428	1.406
	Front	0.622	0.363	0.428	0.041	0.034	1.026	1.019	1.091	1.084
Airplay	Edge 1	0.897		0.428		0.023	0.897	0.920	1.325	1.348
	Edge 2	0.258				0.052	0.258	0.310	0.258	0.310
	Edge 4	0.805	0.003	0.428	0.009		0.817	0.808	1.242	1.233

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.520	0.240	0.460	0.214	0.183	0.760	0.980	0.734	0.703
	Left Tilt	0.240	0.240	0.270	0.077	0.165	0.480	0.510	0.317	0.405
	Right Touch	0.280	0.240	0.270	0.175	0.069	0.520	0.550	0.455	0.349
	Right Tilt	0.180	0.240	0.270	0.084	0.055	0.420	0.450	0.264	0.235
Body-worn & Hotspot	Rear	0.976	0.382	0.517	0.205	0.236	1.358	1.493	1.181	1.212
	Front	0.988	0.298	0.442	0.148	0.121	1.286	1.430	1.136	1.109
Hotspot	Edge 3	0.532	0.298		0.082		0.830	0.532	0.614	0.532
	Edge 4	0.822	0.298		0.063		1.120	0.822	0.885	0.822
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.520	0.164	0.354	0.036	0.075	0.720	0.759	0.910	0.949
	Left Tilt	0.240	0.031	0.354	0.015	0.059	0.286	0.330	0.609	0.653
	Right Touch	0.280	0.031	0.429	0.031	0.024	0.343	0.336	0.740	0.733
	Right Tilt	0.180	0.031	0.354	0.014	0.020	0.225	0.231	0.548	0.554
Body-worn & Airplay	Rear	0.976	0.363	0.448	0.088	0.066	1.427	1.405	1.512	1.490
	Front	0.988	0.363	0.428	0.041	0.034	1.392	1.385	1.457	1.450
Airplay	Edge 3	0.532	0.363		0.032		0.927	0.895	0.564	0.532
	Edge 4	0.822	0.003	0.428	0.009		0.834	0.825	1.259	1.250

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.894	0.240	0.460	0.214	0.183	1.134	1.354	1.108	1.077
	Left Tilt	0.674	0.240	0.270	0.077	0.165	0.914	0.944	0.751	0.839
	Right Touch	0.378	0.240	0.270	0.175	0.069	0.618	0.648	0.553	0.447
	Right Tilt	0.367	0.240	0.270	0.084	0.055	0.607	0.637	0.451	0.422
Body-worn & Hotspot	Rear	0.888	0.382	0.517	0.205	0.236	1.270	1.405	1.093	1.124
	Front	0.502	0.298	0.442	0.148	0.121	0.800	0.944	0.650	0.623
Hotspot	Edge 1	0.488		0.442		0.071	0.488	0.930	0.488	0.559
	Edge 2	0.891		0.442		0.171	0.891	1.333	0.891	1.062

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					∑ 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	0.894	0.164	0.354	0.036	0.075	1.094	1.133	1.284	1.323
	Left Tilt	0.674	0.031	0.354	0.015	0.059	0.720	0.764	1.043	1.087
	Right Touch	0.378	0.031	0.429	0.031	0.024	0.440	0.433	0.838	0.831
	Right Tilt	0.367	0.031	0.354	0.014	0.020	0.412	0.418	0.734	0.740
Body-worn & Airplay	Rear	0.888	0.363	0.448	0.088	0.066	1.339	1.317	1.424	1.402
	Front	0.502	0.363	0.428	0.041	0.034	0.906	0.899	0.971	0.964
Airplay	Edge 1	0.488		0.428		0.023	0.488	0.511	0.916	0.939
	Edge 2	0.891				0.052	0.891	0.943	0.891	0.943

Appendixes

Refer to separated files for the following appendixes.

12124121-S1V1 Appendix A: SAR Setup Photos

12124121-S1V1 Appendix B: SAR System Check Plots

12124121-S1V1 Appendix C: Highest SAR Test Plots

12124121-S1V1 Appendix D: SAR Liquid Tissue Ingredients

12124121-S1V1 Appendix E: SAR Probe Calibration Certificates

12124121-S1V1 Appendix F: SAR Dipole Calibration Certificates

END OF REPORT