



SAR EVALUATION REPORT

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

For
SMARTPHONE

**FCC ID: BCG-E4082A
Model Name: A2595**

**Report Number: 13911916-S1V6
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Revision History

Rev.	Date	Revisions	Revised By
V1	1/31/2022	Initial Issue	--
V2	2/8/2022	1. Section 1: Updated reported Simultaneous TX SAR 2. Section 6.1: Updated descriptions. 3. Section 7: Updated table. 4. Section 9.7, 9.8: Updated power table and descriptions. 5. Section 10.31, 10.33, and 12: Ant3 removed test position Edge 4. 6. Section 12: Updated descriptions.	Devin Chang
V3	2/14/2022	Section 10.17 Updated ANT1 table.	Devin Chang
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1. Attestation of Test Results

Applicant Name	APPLE INC.				
FCC ID	BCG-E4082A				
Model Name	A2595				
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/TNE	CBE	DTS	NII	DSS
Head	1.146	1.093	1.195	1.155	1.176
Body-worn (Dist.= 5 mm)	0.995	0.548	1.162	1.186	1.132
Hotspot (Dist.= 5 mm)	0.995	0.712	1.162	1.186	1.132
Simultaneous TX	Head	1.394	1.394	1.394	1.398
	Body-worn	1.532	1.532	1.532	1.524
	Hotspot	1.532	1.532	1.532	1.524
Date Tested	12/14/2021 to 1/24/2022				
Test Results	Pass				
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.					
Approved & Released By:			Prepared By:		
					
Devin Chang Senior Test Engineer UL Verification Services Inc.			Chakrit Thammanavarat Senior Test Engineer UL Verification Services Inc.		

2. Test Specification, Methods and Procedures

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

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01

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

- [TCB workshop](#) October 2014; RF Exposure Procedures (Other LTE Considerations)
- [TCB workshop](#) April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- [TCB workshop](#) October 2015; RF Exposure Procedures (KDB 941225 D05A)
- [TCB workshop](#) April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- [TCB workshop](#) October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- [TCB workshop](#) May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- [TCB workshop](#) May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- [TCB workshop](#) November 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- [TCB workshop](#) April 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion)
- [TCB workshop](#) October 2018; RF Exposure Procedures (LTE Inter-Band Uplink Carrier Aggregation – Interim Procedures)
- [TCB workshop](#) April 2019; RF Exposure Procedures (802.11ax SAR Testing)
- [TCB workshop](#) November 2019; RF Exposure Policy Updates (5G NR FR1 NSA EN-DCUE SAR Evaluations)
- [TCB workshop](#) April 2021; RF Exposure Procedures (Remarks on Test Reductions via Data Referencing for Closely Related Products)

3. Facilities and Accreditation

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

47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 8
SAR Lab H	SAR Lab 9
	SAR Lab 10
	SAR Lab 11
	SAR Lab 12
	SAR Lab 13
	SAR Lab 14
	SAR Lab 15
	SAR Lab 16

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05

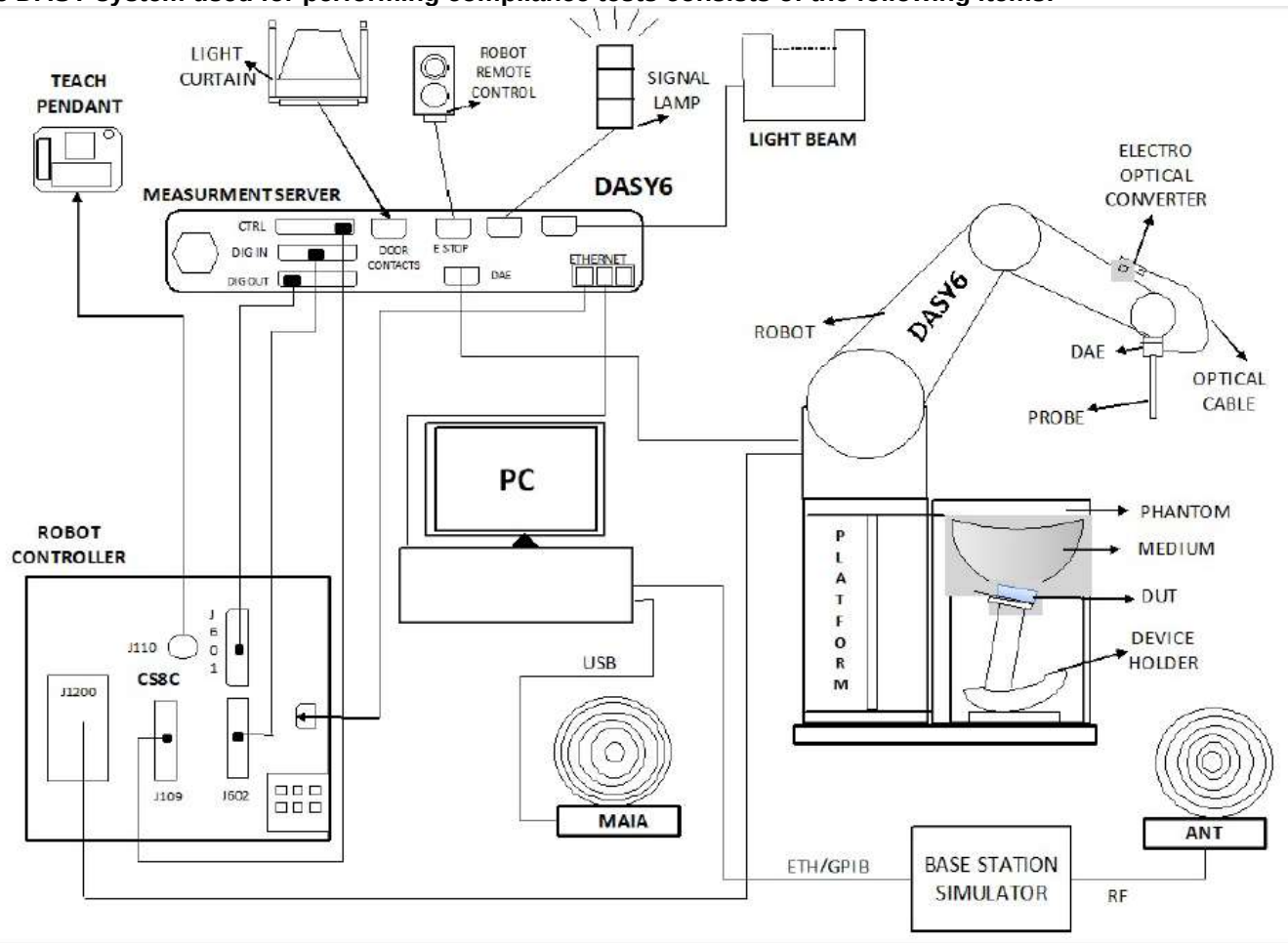
The Test Lab Conformity Assessment Body Identifier (CABID)

Location	CABID	Company Number
47173 Benicia Street, Fremont, CA, 94538 UNITED STATES	US0104	2324A
47266 Benicia Street, Fremont, CA, 94538 UNITED STATES		22541

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY 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 Win7, Win10 and the DASY52¹ and DASY6² 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.

¹ DASY52 software used: DASY52.10.4 & S 14.6.14 and older generations.

² DASY6 software used: DASY6.14 & S 14.6.14 and older generations.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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

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

Step 4: Power drift measurement

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

4.3. Test Equipment

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

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Rohde & Schwarz	ZNLE6	101274	2/26/2022
Dielectric Probe kit	SPEAG	DAK-3.5	1103	2/24/2022
Shorting block	SPEAG	DAK-3.5 Short	SM DAK200DA	2/24/2022
Thermometer	Fisher Scientific	N/A	N/A	9/1/2022

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	Keysight Technologies	N5181A-506	MY50140610	1/21/2022
Power Meter	Keysight Technologies	N1912A	MY50001018	1/21/2022
Power Sensor	Keysight Technologies	N1921A	MY53020038	1/28/2022
DC Power Supply	Ametek	XT15-4	1802A01877	N/A
Amplifier	Miteq	AMF-4D-00400600-50-30P	1795092	N/A
Signal Generator	Rohde & Schwarz	SMB100A03	180969	2/16/2022
3-Path Diode Power Sensor	Rohde & Schwarz	NRP18A	100992	2/16/2022
Signal Generator	Rohde & Schwarz	SMB100A03	180970	2/16/2022
Power Meter	Keysight Technologies	437B	3125U11347	1/26/2022
3-Path Diode Power Sensor	Rohde & Schwarz	NRP18A	100995	2/26/2022
Bi-Directional Coupler	Werlatone	C8060-102	4063	N/A

Note(s):

*Equipment not used past calibration due date.

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3772	2/25/2022
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3773	2/25/2022
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3885	9/23/2022
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	7587	4/27/2022
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	7500	3/18/2022
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	7448	2/26/2022
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3990	2/5/2022
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7463	4/26/2022
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1380	8/11/2022
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1259	8/19/2022
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4ip	1621	4/20/2022
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1547	4/19/2022
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1257	9/15/2022
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1433	2/24/2022
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1258	3/18/2022
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1377	9/20/2022
System Validation Dipole	SPEAG	D750V3	1024	5/11/2022
System Validation Dipole	SPEAG	D900V2	1d143	9/29/2022
System Validation Dipole	SPEAG	D1750V2	1050	4/13/2022
System Validation Dipole	SPEAG	D1750V2	1053	9/29/2022
System Validation Dipole	SPEAG	D1900V2	5d163	9/29/2022
System Validation Dipole	SPEAG	D2300V2	1058	9/29/2022
System Validation Dipole	SPEAG	D2450V2	748	2/19/2022
System Validation Dipole	SPEAG	D2600V2	1036	4/13/2022
System Validation Dipole	SPEAG	D3500V2	1011	4/15/2022
System Validation Dipole	SPEAG	D3500V2	1060	2/25/2022
System Validation Dipole	SPEAG	D3700V2	1039	4/16/2022
System Validation Dipole	SPEAG	D3900V2	1052	9/16/2022
System Validation Dipole	SPEAG	D5GHzV2	1003	2/17/2022

Note(s):

*Equipment not used past calibration due date.

OTHER

Name of Equipment	Manufacturer	Type/Model	T Number	Serial No.	Cal. Due Date
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	959	137873-WG	2/19/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	268	124593-ss	2/26/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	1871	164541	2/24/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	978	137877-ms	2/16/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	960	135384-pJ	2/28/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	957	134852-cy	2/17/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	948	135393-VQ	2/24/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	375	132910-cp	2/17/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	259	124594-HX	2/19/2022
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	953	135390-WS	2/19/2022
Power Meter	Keysight Technologies	N1912A	N/A	MY55196004	1/21/2022
Power Sensor	Keysight Technologies	N1921A	N/A	MY52270022	1/28/2022
Power Meter	Keysight Technologies	N1911A	N/A	MY55196015	1/20/2022
Power Sensor	Keysight Technologies	N1921A	N/A	MY52200012	1/28/2022

Note(s):

*Equipment not used past calibration due date.

5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

6. Device Under Test (DUT) Information

6.1. DUT Description

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G FR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, GPS, and NFC. All models support at least one UICC based SIM. The second SIM is an UICC based e-SIM (electronic SIM) in some models. China model has 1 p-SIM only. The device supports a built-in inductive charging receiver. The rechargeable battery is not user accessible.

iPhone device utilizes three power modes; Mode A, Mode B and Mode C. Power selection is determined by the device's positioning. Mode A power is used when the device is used against the user's head based on whether or not the earpiece is active. Mode B is used when the device is used in a body-worn/near-body configuration by the user based on a proprietary detection mechanism. Mode C is used when neither mode A or B are triggered (i.e. the earpiece is inactive and the body-detection mechanism is not triggered). Mode C is triggered when the device is in an operating mode consistent with mobile operation.

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

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

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

This product utilizes a time-averaged power control mechanism – Wi-Fi Time-Averaged SAR(TAS) within the Wi-Fi chipset – that ensures total power across all Wi-Fi transmitters does not exceed applicable regulatory limits. For further details, refer to the technical description document and Appendix I.

Device Dimension	Overall (Length x Width): 138.4 mm x 67.3 mm Overall Diagonal: 145.7 mm (5.7 inch) Display Diagonal: 119.4 mm (4.7 inch)
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 5.2(UNII-1)/5.8 GHz(UNII-3)
AirPlay	AirPlay mode enabled devices transfer data directly between each other ☒ AirPlay (Wi-Fi 2.4 GHz) ☒ AirPlay (Wi-Fi 5 GHz)
Bluetooth Tethering (Hotspot)	BT Tethering mode permits the device to share its cellular data connection with other devices. ☒ BT Tethering (Bluetooth 2.4 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EDGE (8PSK)	GSM Class : B Multi-Slot Class: Class 10 - 2 Up, 4 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25%
		Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No		
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. 8)		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) TDD Band 48 FDD Band 66 FDD Band 71 Carrier Aggregation ³ FDD Band 5B FDD Band 7C TDD Band 41C ² TDD Band 48C	QPSK 16QAM 64AQM 256QAM Carrier Aggregation (2 Uplinks and 6 Downlinks)		100% (FDD) 63.3% (TDD) ^{Power Class 3} 43.3% (TDD) ^{Power Class 2} Refer to §6.4
5G NR (FR1)	FDD band n2 FDD band n5 FDD band n7 FDD band n12 FDD band n25 FDD Band n29 (DL Only) FDD band n30 TDD band n41 ² FDD band n66 FDD band n71 TDD band n77 ²	CP-OFDM: Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM DFT-s-OFDM: QPSK, 16QAM, 64QAM, 256QAM		100% (FDD) 100% (TDD) ^{Power Class 3} 50% (TDD) ^{Power Class 2}

Wi-Fi	2.4 GHz ¹	802.11b 802.11g 802.11n (HT20) 802.11ac (HT20) 802.11ax (HE20)	100% _(802.11b) 98.92% _(802.11g/n/ac/ax 20MHz BW)
	5 GHz ¹	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80) 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80)	98.92% _(802.11a/n/ac 20MHz BW) 97.82% _(802.11n/ac/ax 40MHz BW) 95.43% _(802.11n/ac/ax 80MHz BW)
		Does this device support bands 5.60 ~ 5.65 GHz? ☒ Yes ☐ No Does this device support Band gap channel(s)? ☒ Yes ☐ No	
Bluetooth	2.4 GHz	BR, EDR, LE, and HDR	
NFC ⁴	13.56 MHz	Type A/B/F and ISO15693	

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.
3. LTE Uplink 2CA is the total combined power of the UL CA.
LTE Uplink Cat 13, LTE 3GPP Rel-13 (LTE 3GPP Rel-14 for B41 PC2)
4. NFC RF exposure testing is categorically excluded.

6.3. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	18700 /1860	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5	18607/ 1850.7
	Mid	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	19100/ 1900	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5	19193/ 1909.3
	Band 4	Frequency range: 1710 - 1755 MHz (BW = 45 MHz)					
		Channel Bandwidth					
		20 MHz ¹	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20385/ 1753.5	20393/ 1754.3
	Band 5	Frequency range: 824 - 849 MHz (BW = 25 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	Frequency range: 2500 - 2570 MHz (BW = 70 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20850 2510	20825 2507.5	20800 2505	20775 2502.5		
	Mid	21100 2535	21100 2535	21100 2535	21100 2535		
	High	21350 2560	21375 2562.5	21400 2565	21425 2567.5		
	Band 12	Frequency range: 699 – 716 MHz (BW = 17 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3
	Band 13	Frequency range: 777 - 787 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		
	Band 14	Frequency range: 788 - 798 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				23305/ 790.5		
	Mid			23330/ 793	23330/ 793		
	High				23355/ 794.5		

					795.5			
	Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)						
		Channel Bandwidth						
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz	
	Low			23780/ 709	23755/ 706.5			
	Mid			23790/ 710	23790/ 710			
	High			23800/ 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 ¹	5 MHz ¹	3 MHz	1.4 MHz	
	Low				27685/ 2307.5			
	Mid			27710/ 2310	27710/ 2310			
	High				27735/ 2312.5			
	Band 41 ²	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)						
		Channel Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
		Low	39750 / 2506.0					
		Low-Mid	40185 / 2549.5					
		Mid	40620 / 2593.0					
		Mid-High	41055 / 2636.5					
		High	41490 / 2680.0					
	Band 48	Frequency range: 3550 - 3700 MHz (BW = 150 MHz)						
		Channel Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
	Low	55340/ 3560	55315/ 3557.5	55290/ 3555	55265/ 3552.5			
	Mid-Low	55773/ 3603.3	55765/ 3602.5	55757/ 3601.7	55748/ 3600.8			
	Mid-High	56207/ 3646.7	56215/ 3647.5	56223/ 3648.3	56232/ 3649.2			
	High	56640/ 3690	56665/ 3692.5	56690/ 3695	56715/ 3697.5			
	Band 66	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)						
		Channel Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
	Low	132072/ 1720	132047/ 1717.5	132022/ 1715	131997/ 1712.5	131987/ 1711.5	131979/ 1710.7	
	Mid	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	
	High	132572/ 1770	132597/ 1772.5	132622/ 1775	132647/ 1777.5	132657/ 1778.5	132665/ 1779.3	

	Band 71	Frequency range: 663 - 698 MHz (BW = 35 MHz)																																																																			
		Channel Bandwidth																																																																			
		20 MHz ¹	15 MHz ¹	10 MHz	5 MHz	3 MHz	1.4 MHz																																																														
		133222/ 673	133197/ 670.5	133172/ 668	133147/ 665.5																																																																
	Low																																																																				
	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, 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 <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr> <tr> <th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr> </thead> <tbody> <tr> <td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr> <tr> <td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr> <tr> <td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr> <tr> <td>256 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr> <tr> <td></td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr> <tr> <td></td><td colspan="6">≥ 1</td><td>≤ 5</td></tr> </tbody> </table> MPR Built-in by design The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing							Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2		> 5	> 4	> 8	> 12	> 16	> 18	≤ 3		≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																														
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																															
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																														
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																														
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																														
256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																														
	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																														
	≥ 1						≤ 5																																																														
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																				

Notes:

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.
- LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
- SAR Testing for LTE was performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

6.4. LTE (TDD) Considerations

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

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

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-
9	$13168 \cdot T_s$			-	-	-
10	$13168 \cdot T_s$			-	-	-

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.

6.5. General 5G NR(FR1) SAR Test and Reporting Considerations

n2	SCS (kHz)	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15										372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5	
Mid	15										376000 /1880	376000 /1880	376000 /1880	376000 /1880	
High	15										380000 /1900	380500 /1902.5	381000 /1905	381500 /1907.5	
n5	SCS (kHz)	Frequency range: 824 - 849 MHz (BW = 25 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15										166800 /834	166300 /831.5	165800 /829	165300 /826.5	
Mid	15										167300 /836.5	167300 /836.5	167300 /836.5	167300 /836.5	
High	15										167800 /839	168300 /841.5	168800 /844	169300 /846.5	
n7	SCS (kHz)	Frequency range: 2500 - 2570 MHz (BW = 70 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15							504000 /2520	503000 /2515	502500 /2512.5	502000 /2510	501500 /2507.5	501000 /2505	500500 /2502.5	
Mid	15							507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	
High	15							510000 /2550	511000 /2555	511500 /2557.5	512000 /2560	512500 /2562.5	513000 /2565	513500 /2567.5	
n12	SCS (kHz)	Frequency range: 699 - 716 MHz (BW = 17 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15											141300 /706.5	140800 /704	140300 /701.5	
Mid	15											141500 /707.5	141500 /707.5	141500 /707.5	
High	15											141700 /708.5	142200 /711	142700 /713.5	
n25	SCS (kHz)	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15							374000 /1870	373000 /1865	372500 /1862.5	372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5	
Mid	15							376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	
High	15							379000 /1895	380000 /1900	380500 /1902.5	381000 /1905	381500 /1907.5	382000 /1910	382500 /1912.5	
n30	SCS (kHz)	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15													461500 /2307.5	
Mid	15												462000 /2310	462000 /2310	
High	15													462500 /2312.5	
n41	SCS (kHz)	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30	509196 /2545.98	508200 /2541	507198 /2535.99		505200 /2526	504198 /2520.99	503196 /2515.98	502200 /2511		501198 /2505.99				
Low-Mid	30	513900 /2569.5	513396 /2566.98	512898 /2564.49		511896 /2559.48	511398 /2556.99	510900 /2554.5	510396 /2551.98		509898 /2549.49				
Mid	30	518598 /2592.99	518598 /2592.99	518598 /2592.99		518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99		518598 /2592.99				
Mid-High	30	523296 /2616.48	523800 /2619	524298 /2621.49		525300 /2626.5	525798 /2628.99	526296 /2631.48	526800 /2634		527298 /2636.49				
High	30	527994 /2639.97	528996 /2644.98	529998 /2649.99		531996 /2659.98	532998 /2664.99	533994 /2669.97	534996 /2674.98		535998 /2679.99				

n66	SCS (kHz)	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)												
		Channel Bandwidth (MHz)												
		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	15							346000 /1730	345000 /1725		344000 /1720	343500 /1717.5	343000 /1715	342500 /1712.5
Mid	15							349000 /1745	349000 /1745		349000 /1745	349000 /1745	349000 /1745	349000 /1745
High	15							352000 /1760	353000 /1765		354000 /1770	354500 /1772.5	355000 /1775	355500 /1777.5
n71	SCS (kHz)	Frequency range: 663 - 698 MHz (BW = 35 MHz)												
		Channel Bandwidth (MHz)												
		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	15										134600 /673	134100 /670.5	133600 /668	133100 /665.5
Mid	15										136100 /680.5	136100 /680.5	136100 /680.5	136100 /680.5
High	15										137600 /688	138100 /690.5	138600 /693	139100 /695.5
n77	SCS (kHz)	Block A Frequency range: 3450 - 3550 MHz (BW = 100 MHz)												
		Channel Bandwidth (MHz)												
		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	30	633332 /3499.98	633000 /3495	632666 /3489.99	632332 /3484.98	632000 /3480	631666 /3474.99	631332 /3469.98	631000 /3465		630666 /3459.99			
Mid	30	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98		633332 /3499.98			
High	30	633332 /3499.98	633666 /3504.99	633998 /3509.97	634332 /3514.98	634666 /3519.99	634998 /3524.97	635332 /3529.98	635666 /3534.99		635998 /3539.97			
n77	SCS (kHz)	Block C Frequency range: 3700 - 3980 MHz (BW = 280 MHz)												
		Channel Bandwidth (MHz)												
		100	90	80	70	60	50	40	30	25	20	15	10	5
Low	30	649998 /3749.97	649666 /3744.99	649332 /3739.98	648998 /3734.97	648666 /3729.99	648332 /3724.98	647998 /3719.97	647666 /3714.99		647332 /3709.98			
Low-Mid	30	652998 /3794.97	652832 /3792.48	652666 /3789.99	652498 /3787.47	652332 /3784.98	652166 /3782.49	651998 /3779.97	651832 /3777.48		651666 /3774.99			
Mid	30	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840		656000 /3840			
Mid-High	30	658998 /3884.97	659166 /3887.49	659332 /3889.98	659498 /3892.47	659666 /3894.99	659832 /3897.48	659998 /3899.97	660166 /3902.49		660332 /3904.98			
High	30	661998 /3929.97	662332 /3934.98	662666 /3939.99	662998 /3944.97	663332 /3949.98	663666 /3954.99	663998 /3959.97	664332 /3964.98		664666 /3969.99			

SCS	15 kHz (n2, n5, n7, n12, n25, n30, n66, n71) 30 kHz (n41, n77)
NR(FR1) transmitter and antenna implementation	Refer to section 7 and Appendix A.
A-MPR(Additional MPR) disabled for SAR testing?	Yes
EN-DC Carrier Aggregation Possible Combinations	
LTE Anchor Bands for NR band n2	LTE Band 5/12/13/14/48/66
LTE Anchor Bands for NR band n5	LTE Band 2/7/30/48/66
LTE Anchor Bands for NR band n7	LTE Band 5/12/66
LTE Anchor Bands for NR band n12	LTE Band 2/66
LTE Anchor Bands for NR band n25	LTE Band 12/48/66
LTE Anchor Bands for NR band n30	LTE Band 5/12/14/66
LTE Anchor Bands for NR band n41	LTE Band 2/4/12/25/26/66
LTE Anchor Bands for NR band n66	LTE Band 2/5/7/12/13/14/30/48/71
LTE Anchor Bands for NR band n71	LTE Band 2/7/66
LTE Anchor Bands for NR band n77	LTE Band 2/5/7/12/13/14/30/41/66

Notes:

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per FCC Guidance.
- SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
- FR1 supported standalone.

7. RF Exposure Conditions (Test Configurations)

This device has a total of 5 antennas. From Front of the device, antennas and supported frequencies are described and located as follows:

Antenna	Band	Rear	Front	Edge 1	Edge 2	Edge 3	Edge 4
				(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)
ANT1	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/13/14/17/25/26/29/30/41/48/66/71 5G(FR1) n2/n5/n7/n12/n25/n29/n30/n41/n66/n71/n77	Yes	Yes	No	Yes	Yes	Yes
ANT2	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/13/14/17/25/26/29/30/41/66/71 5G(FR1) n2/n5/n7/n12/n25/n29/n30/n41/n66/n71 Wi-Fi 2.4 GHz/BT	Yes	Yes	Yes	Yes	No	Yes
ANT3	Wi-Fi 2.4/5GHz/BT	Yes	Yes	No	Yes	Yes	No
ANT4	LTE B48 5G(FR1) n77	Yes	Yes	Yes	No	No	Yes
ANT6	Wi-Fi 5GHz	Yes	Yes	Yes	Yes	No	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.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

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

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

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

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

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

IEC 62209-1

Refer to Table A.3 within the IEC 62209-1

Dielectric Property Measurements Results:

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
A	12/13/2021	750	Head	750	40.57	41.96	-3.32	0.92	0.89	2.56
				660	40.65	42.42	-4.18	0.87	0.89	-1.32
				800	40.00	41.71	-4.09	0.92	0.90	2.22
A	12/14/2021	900	Head	900	39.72	41.50	-4.29	0.98	0.97	1.03
				805	40.18	41.68	-3.60	0.92	0.90	2.17
				850	40.15	41.50	-3.25	0.95	0.92	3.73
A	12/17/2021	900	Head	900	42.31	41.50	1.95	1.00	0.97	2.84
				805	44.73	41.68	7.32	0.96	0.90	7.17
				850	43.87	41.50	5.71	0.96	0.92	4.66
A	12/20/2021	750	Head	750	42.04	41.96	0.19	0.89	0.89	0.15
				660	43.87	42.42	3.41	0.85	0.89	-4.60
				800	42.95	41.71	2.98	0.93	0.90	3.41
A	12/20/2021	900	Head	900	39.65	41.50	-4.46	0.99	0.97	1.86
				820	40.61	41.60	-2.39	0.93	0.90	3.51
				850	40.49	41.50	-2.43	0.95	0.92	3.51
A	12/28/2021	750	Head	750	40.09	41.96	-4.46	0.92	0.89	2.49
				660	40.57	42.42	-4.37	0.88	0.89	-1.22
				800	40.09	41.71	-3.87	0.93	0.90	3.39
A	12/28/2021	900	Head	900	39.87	41.50	-3.93	0.96	0.97	-0.65
				820	40.05	41.60	-3.73	0.93	0.90	3.51
				850	39.99	41.50	-3.64	0.94	0.92	3.06
A	1/4/2022	900	Head	900	41.15	41.50	-0.84	0.94	0.97	-3.52
				820	41.43	41.60	-0.41	0.90	0.90	0.17
				850	41.15	41.50	-0.84	0.94	0.92	2.51
A	1/6/2022	750	Head	750	40.98	41.96	-2.34	0.88	0.89	-1.37
				660	41.82	42.42	-1.42	0.84	0.89	-4.71
				800	40.92	41.71	-1.88	0.90	0.90	0.19
A	1/10/2022	900	Head	900	42.46	41.50	2.31	0.92	0.97	-4.74
				820	41.98	41.60	0.91	0.86	0.90	-3.99
				850	41.80	41.50	0.72	0.89	0.92	-2.82
A	1/14/2022	750	Head	750	41.14	41.96	-1.96	0.91	0.89	2.02
				660	41.84	42.42	-1.37	0.88	0.89	-0.83
				800	40.98	41.71	-1.74	0.93	0.90	3.23
A	1/18/2022	750	Head	750	41.02	41.96	-2.24	0.89	0.89	-0.43
				660	41.41	42.42	-2.39	0.86	0.89	-3.47
				800	40.84	41.71	-2.07	0.91	0.90	1.17

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
B	12/14/2021	1900	Head	1900	38.60	40.00	-3.50	1.39	1.40	-0.50
				1850	38.67	40.00	-3.33	1.36	1.40	-2.57
				1920	38.54	40.00	-3.65	1.40	1.40	0.00
B	12/14/2021	1750	Head	1750	38.86	40.08	-3.06	1.31	1.37	-4.45
				1710	38.95	40.15	-2.98	1.29	1.35	-4.49
				1755	38.86	40.08	-3.04	1.31	1.37	-4.43
B	12/17/2021	1750	Head	1750	41.79	40.08	4.25	1.42	1.37	3.44
				1710	41.96	40.15	4.52	1.40	1.35	3.76
				1755	41.79	40.08	4.27	1.42	1.37	3.51
B	12/20/2021	1750	Head	1750	41.53	40.08	3.61	1.36	1.37	-1.02
				1710	41.60	40.15	3.62	1.33	1.35	-1.29
				1755	41.53	40.08	3.63	1.36	1.37	-0.93
B	12/20/2021	1900	Head	1900	41.81	40.00	4.53	1.46	1.40	4.14
				1850	41.86	40.00	4.65	1.42	1.40	1.14
				1920	41.76	40.00	4.40	1.47	1.40	4.93
B	12/28/2021	1750	Head	1750	39.57	40.08	-1.28	1.35	1.37	-1.75
				1710	39.71	40.15	-1.09	1.32	1.35	-2.11
				1755	39.58	40.08	-1.24	1.35	1.37	-1.73
B	12/28/2021	1900	Head	1900	39.34	40.00	-1.65	1.44	1.40	2.79
				1850	39.54	40.00	-1.15	1.40	1.40	0.00
				1920	39.27	40.00	-1.82	1.45	1.40	3.21
B	1/4/2022	1750	Head	1750	38.31	40.08	-4.43	1.34	1.37	-2.04
				1710	38.43	40.15	-4.27	1.32	1.35	-2.11
				1755	38.31	40.08	-4.41	1.35	1.37	-1.95
B	1/4/2022	1900	Head	1900	38.09	40.00	-4.77	1.43	1.40	2.36
				1850	38.15	40.00	-4.63	1.40	1.40	-0.07
				1920	38.04	40.00	-4.90	1.44	1.40	2.93
B	1/14/2022	1900	Head	1900	40.42	40.00	1.05	1.39	1.40	-1.07
				1850	40.48	40.00	1.20	1.36	1.40	-3.21
				1920	40.36	40.00	0.90	1.39	1.40	-0.43
B	1/15/2022	1750	Head	1750	39.22	40.08	-2.16	1.34	1.37	-1.82
				1710	39.20	40.15	-2.36	1.32	1.35	-1.66
				1755	39.23	40.08	-2.11	1.35	1.37	-1.73

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
C	12/14/2021	2600	Head	2600	40.29	39.01	3.28	1.90	1.96	-3.07
				2495	40.38	39.14	3.16	1.82	1.85	-1.66
				2690	40.06	38.90	2.99	1.98	2.06	-4.00
C	12/16/2021	2600	Head	2600	37.37	39.01	-3.21	1.90	1.96	-3.27
				2495	37.71	39.14	-3.66	1.77	1.85	-4.20
				2690	37.14	38.90	-4.52	1.97	2.06	-4.15
C	12/20/2021	2600	Head	2600	39.02	39.01	0.02	1.98	1.96	0.81
				2495	39.21	39.14	0.17	1.89	1.85	2.35
				2690	38.78	38.90	-0.30	2.07	2.06	0.46
C	12/28/2021	2600	Head	2600	38.99	39.01	-0.05	1.89	1.96	-3.52
				2495	39.15	39.14	0.02	1.81	1.85	-2.25
				2690	38.81	38.90	-0.22	1.97	2.06	-4.25
C	1/4/2022	2600	Head	2600	39.71	39.01	1.79	1.89	1.96	-3.78
				2495	39.83	39.14	1.75	1.80	1.85	-2.47
				2690	39.51	38.90	1.58	1.97	2.06	-4.59

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
D	12/14/2021	2300	Head	2300	39.32	39.47	-0.39	1.65	1.66	-0.59
				2350	39.27	39.38	-0.29	1.70	1.71	-0.51
				2400	39.17	39.30	-0.32	1.73	1.75	-1.41
D	12/17/2021	2300	Head	2300	39.47	39.47	-0.01	1.65	1.66	-0.71
				2350	39.36	39.38	-0.06	1.70	1.71	-0.22
				2400	39.32	39.30	0.06	1.74	1.75	-0.49
D	12/20/2021	2300	Head	2300	37.82	39.47	-4.19	1.63	1.66	-1.79
				2350	37.73	39.38	-4.20	1.68	1.71	-1.68
				2400	37.64	39.30	-4.22	1.71	1.75	-2.32
D	12/28/2021	2300	Head	2300	40.21	39.47	1.87	1.63	1.66	-2.15
				2350	40.09	39.38	1.79	1.67	1.71	-2.03
				2400	39.92	39.30	1.59	1.72	1.75	-2.09
D	1/4/2022	2300	Head	2300	38.11	39.47	-3.45	1.66	1.66	-0.04
				2350	38.08	39.38	-3.31	1.70	1.71	-0.22
				2400	37.98	39.30	-3.35	1.74	1.75	-0.49

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
E	12/14/2021	5750	Head	5750	35.45	35.36	0.11	5.13	5.21	-1.61
				5700	35.57	35.42	0.42	5.06	5.16	-2.08
				5850	35.28	35.30	-0.06	5.23	5.27	-0.83
E	12/16/2021	5750	Head	5750	34.09	35.36	-3.60	5.13	5.13	0.00
				5700	34.31	35.42	-3.13	5.01	5.16	-2.90
				5850	34.02	35.30	-3.63	5.18	5.27	-1.69
E	12/16/2021	5600	Head	5600	34.44	35.53	-3.08	4.89	5.06	-3.40
				5500	34.69	35.65	-2.69	4.77	4.96	-3.89
				5725	34.23	35.39	-3.28	5.04	5.19	-2.82
E	12/16/2021	5250	Head	5250	35.11	35.93	-2.29	4.51	4.70	-4.02
				5150	35.36	36.05	-1.91	4.41	4.60	-4.08
				5350	34.98	35.82	-2.34	4.62	4.80	-3.88
E	12/20/2021	5250	Head	5250	34.59	35.93	-3.74	4.85	4.70	3.14
				5150	34.75	36.05	-3.60	4.69	4.60	2.03
				5350	34.37	35.82	-4.05	4.94	4.80	2.78
E	12/20/2021	5600	Head	5600	34.19	35.53	-3.78	5.20	5.06	2.66
				5500	34.27	35.65	-3.87	5.09	4.96	2.64
				5725	33.99	35.39	-3.96	5.32	5.19	2.56
E	12/20/2021	5750	Head	5750	33.94	35.36	-4.02	5.34	5.21	2.38
				5700	34.09	35.42	-3.75	5.29	5.16	2.41
				5850	33.77	35.30	-4.33	5.44	5.27	3.13
E	12/28/2021	5250	Head	5250	34.78	35.93	-3.21	4.66	4.70	-1.00
				5150	34.93	36.05	-3.10	4.55	4.60	-1.17
				5350	34.58	35.82	-3.46	4.77	4.80	-0.74
E	12/28/2021	5600	Head	5600	34.10	35.53	-4.04	5.05	5.06	-0.28
				5500	34.30	35.65	-3.78	4.92	4.96	-0.87
				5725	33.80	35.39	-4.50	5.19	5.19	0.11
E	12/28/2021	5750	Head	5750	33.77	35.36	-4.50	5.21	5.21	-0.09
				5700	33.87	35.42	-4.38	5.16	5.16	-0.09
				5850	33.57	35.30	-4.90	5.32	5.27	0.93
E	1/4/2022	5750	Head	5750	33.98	35.36	-3.91	5.32	5.21	2.04
				5700	34.20	35.42	-3.44	5.24	5.16	1.44
				5850	33.86	35.30	-4.08	5.45	5.27	3.43
E	1/5/2022	5250	Head	5250	34.95	35.93	-2.74	4.68	4.70	-0.43
				5150	35.14	36.05	-2.52	4.57	4.60	-0.74
				5350	34.77	35.82	-2.93	4.79	4.80	-0.26
E	1/5/2022	5600	Head	5600	34.31	35.53	-3.44	5.06	5.06	0.05
				5500	34.51	35.65	-3.19	4.94	4.96	-0.32
				5725	34.04	35.39	-3.82	5.22	5.19	0.63
E	1/13/2022	5250	Head	5250	35.00	35.93	-2.60	4.64	4.70	-1.41
				5150	35.20	36.05	-2.35	4.52	4.60	-1.74
				5350	34.82	35.82	-2.79	4.75	4.80	-1.24
E	1/13/2022	5600	Head	5600	34.37	35.53	-3.28	5.01	5.06	-0.95
				5500	34.56	35.65	-3.05	4.89	4.96	-1.31
				5725	34.10	35.39	-3.65	5.16	5.19	-0.47
E	1/13/2022	5750	Head	5750	34.10	35.36	-3.57	5.18	5.21	-0.59
				5700	34.19	35.42	-3.47	5.13	5.16	-0.71
				5850	33.91	35.30	-3.94	5.29	5.27	0.38
E	1/16/2022	5250	Head	5250	35.02	35.93	-2.54	4.72	4.70	0.36
				5150	35.22	36.05	-2.29	4.61	4.60	0.11
				5350	34.83	35.82	-2.76	4.83	4.80	0.49
E	1/16/2022	5600	Head	5600	34.37	35.53	-3.28	5.09	5.06	0.61
				5500	34.58	35.65	-3.00	4.97	4.96	0.32
				5725	34.11	35.39	-3.62	5.24	5.19	1.08
E	1/16/2022	5750	Head	5750	34.09	35.36	-3.60	5.26	5.21	0.95
				5700	34.19	35.42	-3.47	5.21	5.16	0.86
				5850	33.91	35.30	-3.94	5.37	5.27	1.95

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
F	12/14/2021	3500	Head	3500	39.24	37.93	3.45	2.94	2.91	0.94
				3400	39.51	38.04	3.85	2.86	2.81	1.77
				3600	39.06	37.82	3.29	3.03	3.01	0.67
F	12/21/2021	3500	Head	3500	38.87	37.93	2.48	2.81	2.91	-3.59
				3400	39.05	38.04	2.65	2.71	2.81	-3.50
				3600	38.68	37.82	2.29	2.90	3.01	-3.75
F	12/28/2021	3500	Head	3500	37.53	37.93	-1.05	2.81	2.91	-3.66
				3400	37.66	38.04	-1.01	2.75	2.81	-2.18
				3600	37.30	37.82	-1.36	2.91	3.01	-3.38
F	12/28/2021	3700	Head	3700	37.14	37.70	-1.49	3.00	3.12	-3.83
				3500	37.53	37.93	-1.05	2.81	2.91	-3.49
				3600	37.30	37.82	-1.36	2.91	3.01	-3.45
F	1/4/2022	3500	Head	3500	38.20	37.93	0.71	2.80	2.91	-3.87
				3400	38.37	38.04	0.86	2.72	2.81	-3.11
				3600	38.01	37.82	0.51	2.89	3.01	-4.18
F	1/4/2022	3700	Head	3700	37.86	37.70	0.42	2.99	3.12	-4.15
				3600	38.01	37.82	0.51	2.89	3.01	-4.18
				3800	37.64	37.59	0.14	3.08	3.22	-4.34
F	1/10/2022	3500	Head	3500	38.36	37.93	1.13	2.87	2.91	-1.60
				3400	38.57	38.04	1.38	2.77	2.81	-1.40
				3600	38.16	37.82	0.91	2.96	3.01	-1.95
F	1/10/2022	3700	Head	3700	37.96	37.70	0.69	3.05	3.12	-2.03
				3600	38.16	37.82	0.91	2.96	3.01	-1.95
				3800	37.78	37.59	0.51	3.16	3.22	-1.91
F	1/14/2022	3900	Head	3900	38.08	37.47	1.62	3.18	3.32	-4.18
				3800	38.25	37.59	1.76	3.07	3.22	-4.55
				4000	37.88	37.36	1.39	3.29	3.42	-3.92
F	1/14/2022	3500	Head	3500	38.78	37.93	2.24	2.78	2.91	-4.62
				3400	38.94	38.04	2.36	2.69	2.81	-4.39
				3600	38.62	37.82	2.13	2.87	3.01	-4.81
F	1/20/2022	3500	Head	3500	38.05	37.93	0.32	2.83	2.91	-2.84
				3400	38.22	38.04	0.46	2.74	2.81	-2.39
				3600	37.84	37.82	0.06	2.92	3.01	-3.12
F	1/20/2022	3700	Head	3700	38.18	37.70	1.27	3.06	3.12	-1.77
				3600	38.39	37.82	1.52	2.97	3.01	-1.56
				3800	37.98	37.59	1.04	3.16	3.22	-1.76

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
G	12/14/2021	2450	Head	2450	38.89	39.20	-0.79	1.88	1.80	4.28
				2400	38.92	39.30	-0.96	1.83	1.75	4.53
				2480	38.79	39.16	-0.95	1.89	1.83	3.31
G	12/17/2021	2450	Head	2450	38.95	39.20	-0.64	1.80	1.80	0.17
				2400	39.01	39.30	-0.73	1.76	1.75	0.53
				2480	38.90	39.16	-0.67	1.83	1.83	-0.08
G	12/20/2021	2450	Head	2450	38.33	39.20	-2.22	1.80	1.80	0.00
				2400	38.35	39.30	-2.41	1.76	1.75	0.31
				2480	38.27	39.16	-2.28	1.81	1.83	-1.12
G	12/26/2021	2450	Head	2450	38.97	39.20	-0.59	1.80	1.80	-0.17
				2400	39.03	39.30	-0.68	1.77	1.75	0.99
				2480	38.78	39.16	-0.98	1.81	1.83	-1.39
G	12/30/2021	2450	Head	2450	37.55	39.20	-4.21	1.79	1.80	-0.83
				2400	37.60	39.30	-4.32	1.75	1.75	-0.27
				2480	37.45	39.16	-4.37	1.80	1.83	-1.93
G	1/4/2022	2450	Head	2450	39.81	39.20	1.56	1.75	1.80	-2.67
				2400	39.85	39.30	1.41	1.70	1.75	-2.78
				2480	39.68	39.16	1.32	1.76	1.83	-3.90
G	1/5/2022	3500	Head	3500	38.27	37.93	0.90	2.79	2.91	-4.31
				3400	38.44	38.04	1.04	2.70	2.81	-3.93
				3600	38.08	37.82	0.70	2.88	3.01	-4.51
G	1/10/2022	3500	Head	3500	38.06	37.93	0.34	2.93	2.91	0.70
				3400	38.39	38.04	0.91	2.77	2.81	-1.33
				3600	37.30	37.82	-1.36	3.01	3.01	-0.26
G	1/13/2022	2450	Head	2450	39.39	39.20	0.48	1.86	1.80	3.22
				2400	39.43	39.30	0.34	1.81	1.75	3.50
				2480	39.29	39.16	0.33	1.87	1.83	2.16
G	1/20/2022	3700	Head	3700	38.74	37.70	2.75	3.00	3.12	-3.73
				3600	38.94	37.82	2.97	2.91	3.01	-3.55
				3800	38.55	37.59	2.56	3.10	3.22	-3.62

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta	Measured	Target	Delta
H	12/14/2021	3500	Head	3500	39.27	37.93	3.53	2.78	2.91	-4.52
				3400	39.43	38.04	3.64	2.72	2.81	-3.36
				3600	39.02	37.82	3.19	2.87	3.01	-4.94
H	12/17/2021	3500	Head	3500	37.61	37.93	-0.84	2.81	2.91	-3.66
				3400	37.65	38.04	-1.03	2.75	2.81	-2.25
				3600	37.42	37.82	-1.05	2.88	3.01	-4.44
H	12/17/2021	3700	Head	3700	37.24	37.70	-1.22	2.98	3.12	-4.34
				3600	37.42	37.82	-1.05	2.88	3.01	-4.44
				3800	36.98	37.59	-1.62	3.08	3.22	-4.18
H	12/20/2021	3500	Head	3500	38.22	37.93	0.77	2.78	2.91	-4.69
				3400	38.32	38.04	0.73	2.72	2.81	-3.11
				3600	38.04	37.82	0.59	2.88	3.01	-4.34
H	12/20/2021	3700	Head	3700	37.82	37.70	0.31	2.97	3.12	-4.76
				3600	38.04	37.82	0.59	2.88	3.01	-4.34
				3800	37.65	37.59	0.17	3.07	3.22	-4.77
H	12/28/2021	3500	Head	3500	38.39	37.93	1.21	2.82	2.91	-3.32
				3400	38.52	38.04	1.25	2.76	2.81	-1.86
				3600	38.18	37.82	0.96	2.92	3.01	-3.22
H	12/28/2021	3700	Head	3700	37.99	37.70	0.77	3.00	3.12	-3.60
				3600	38.18	37.82	0.96	2.92	3.01	-3.12
				3800	37.80	37.59	0.57	3.10	3.22	-3.62
H	12/29/2021	3900	Head	3900	38.22	37.47	1.99	3.17	3.32	-4.51
				3800	38.45	37.59	2.30	3.06	3.22	-4.93
				4000	38.08	37.36	1.93	3.27	3.42	-4.50
H	1/4/2022	3500	Head	3500	38.41	37.93	1.27	2.80	2.91	-3.70
				3400	38.61	38.04	1.49	2.73	2.81	-2.93
				3600	38.25	37.82	1.15	2.89	3.01	-4.08
H	1/4/2022	3700	Head	3700	38.07	37.70	0.98	3.00	3.12	-3.89
				3600	38.25	37.82	1.15	2.89	3.01	-4.08
				3800	37.89	37.59	0.81	3.09	3.22	-3.96
H	1/4/2022	3900	Head	3900	37.76	37.47	0.77	3.18	3.32	-4.27
				3800	37.89	37.59	0.81	3.09	3.22	-3.96
				4000	37.47	37.36	0.30	3.30	3.42	-3.66
H	1/10/2022	3500	Head	3500	39.08	37.93	3.03	2.83	2.91	-2.94
				3400	39.22	38.04	3.09	2.73	2.81	-2.71
				3600	38.89	37.82	2.84	2.92	3.01	-3.08
H	1/10/2022	3700	Head	3700	38.71	37.70	2.68	3.01	3.12	-3.31
				3600	38.89	37.82	2.84	2.92	3.01	-3.08
				3800	38.51	37.59	2.45	3.12	3.22	-3.00
H	1/10/2022	3900	Head	3900	38.38	37.47	2.42	3.22	3.32	-3.07
				3800	38.51	37.59	2.45	3.12	3.22	-3.00
				4000	38.22	37.36	2.30	3.33	3.42	-2.84
H	1/14/2022	3500	Head	3500	38.48	37.93	1.45	2.96	2.91	1.70
				3400	38.67	38.04	1.65	2.86	2.81	1.81
				3600	38.27	37.82	1.20	3.07	3.01	1.70
H	1/14/2022	3700	Head	3700	38.04	37.70	0.90	3.18	3.12	1.89
				3600	38.27	37.82	1.20	3.07	3.01	1.70
				3800	37.82	37.59	0.62	3.29	3.22	2.25

8.2. System Check

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

System Performance Check Measurement Conditions:

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

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Date	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
A	12/13/2021	Head	D750V3 SN:1024	5/11/2022	0.915	9.15	8.60	6.40	0.607	6.07	5.69	6.68	1
A	12/14/2021	Head	D900V2 SN:1d143	9/29/2022	1.140	11.40	10.71	6.44	0.744	7.44	6.97	6.74	
A	12/17/2021	Head	D900V2 SN:1d143	9/29/2022	1.120	11.20	10.71	4.58	0.741	7.41	6.97	6.31	
A	12/20/2021	Head	D750V3 SN:1024	5/11/2022	0.839	8.39	8.60	-2.44	0.559	5.59	5.69	-1.76	
A	12/20/2021	Head	D900V2 SN:1d143	9/29/2022	1.030	10.30	10.71	-3.83	0.680	6.80	6.97	-2.44	
A	12/28/2021	Head	D750V3 SN:1024	5/11/2022	0.857	8.57	8.60	-0.35	0.565	5.65	5.69	-0.70	
A	12/28/2021	Head	D900V2 SN:1d143	9/29/2022	1.070	10.70	10.71	-0.09	0.698	6.98	6.97	0.14	
A	1/4/2022	Head	D900V2 SN:1d143	9/29/2022	1.060	10.60	10.71	-1.03	0.696	6.96	6.97	-0.14	
A	1/6/2022	Head	D750V3 SN:1024	5/11/2022	0.841	8.41	8.60	-2.21	0.556	5.56	5.69	-2.28	
A	1/10/2022	Head	D900V2 SN:1d143	9/29/2022	1.000	10.00	10.71	-6.63	0.655	6.55	6.97	-6.03	2
A	1/14/2022	Head	D750V3 SN:1024	5/11/2022	0.844	8.44	8.60	-1.86	0.560	5.60	5.69	-1.58	
A	1/18/2022	Head	D750V3 SN:1024	5/11/2022	0.896	8.96	8.60	4.19	0.593	5.93	5.69	4.22	
B	12/14/2021	Head	D1900V2 SN:5d163	9/29/2022	3.830	38.30	40.61	-5.69	1.970	19.70	21.02	-6.28	3
B	12/14/2021	Head	D1750V2 SN:1050	4/13/2022	3.500	35.00	37.06	-5.56	1.850	18.50	19.87	-6.89	4
B	12/17/2021	Head	D1750V2 SN:1050	4/13/2022	3.870	38.70	37.06	4.43	2.090	20.90	19.87	5.18	
B	12/20/2021	Head	D1750V2 SN:1050	4/13/2022	3.530	35.30	37.06	-4.75	1.820	18.20	19.87	-8.40	
B	12/20/2021	Head	D1900V2 SN:5d163	9/29/2022	3.960	39.60	40.61	-2.49	2.040	20.40	21.02	-2.95	
B	12/28/2021	Head	D1750V2 SN:1050	4/13/2022	3.520	35.20	37.06	-5.02	1.860	18.60	19.87	-6.39	
B	12/28/2021	Head	D1900V2 SN:5d163	9/29/2022	4.000	40.00	40.61	-1.50	2.060	20.60	21.02	-2.00	
B	1/4/2022	Head	D1750V2 SN:1053	9/29/2022	3.480	34.80	36.82	-5.49	1.840	18.40	19.67	-6.46	5
B	1/4/2022	Head	D1900V2 SN:5d163	9/29/2022	3.950	39.50	40.61	-2.73	2.030	20.30	21.02	-3.43	
B	1/14/2022	Head	D1900V2 SN:5d163	9/29/2022	4.050	40.50	40.61	-0.27	2.170	21.70	21.02	3.24	
B	1/15/2022	Head	D1750V2 SN:1050	4/13/2022	3.860	38.60	37.06	4.16	2.100	21.00	19.87	5.69	
C	12/14/2021	Head	D2600V2 SN:1036	4/13/2022	5.510	55.10	55.34	-0.43	2.500	25.00	24.92	0.32	
C	12/16/2021	Head	D2600V2 SN:1036	4/13/2022	6.000	60.00	55.34	8.42	2.700	27.00	24.92	8.35	6
C	12/20/2021	Head	D2600V2 SN:1036	4/13/2022	5.940	59.40	55.34	7.34	2.700	27.00	24.92	8.35	
C	12/28/2021	Head	D2600V2 SN:1036	4/13/2022	5.970	59.70	55.34	7.88	2.650	26.50	24.92	6.34	
C	1/4/2022	Head	D2600V2 SN:1036	4/13/2022	5.900	59.00	55.34	6.61	2.690	26.90	24.92	7.95	
D	12/14/2021	Head	D2300V2 SN:1058	9/29/2022	5.130	51.30	50.56	1.46	2.430	24.30	24.52	-0.90	
D	12/17/2021	Head	D2300V2 SN:1058	9/29/2022	4.680	46.80	50.56	-7.44	2.220	22.20	24.52	-9.46	7
D	12/20/2021	Head	D2300V2 SN:1058	9/29/2022	5.010	50.10	50.56	-0.91	2.390	23.90	24.52	-2.53	
D	12/28/2021	Head	D2300V2 SN:1058	9/29/2022	4.870	48.70	50.56	-3.68	2.310	23.10	24.52	-5.79	
D	1/4/2022	Head	D2300V2 SN:1058	9/29/2022	5.120	51.20	50.56	1.27	2.450	24.50	24.52	-0.08	
E	12/14/2021	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	7.040	70.40	75.70	-7.00	1.990	19.90	21.80	-8.72	
E	12/16/2021	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	6.970	69.70	75.70	-7.93	1.990	19.90	21.80	-8.72	8
E	12/16/2021	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	8.020	80.20	84.70	-5.31	2.280	22.80	24.20	-5.79	
E	12/16/2021	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.140	71.40	77.10	-7.39	2.060	20.60	22.20	-7.21	9
E	12/20/2021	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.280	72.80	77.10	-5.58	2.070	20.70	22.20	-6.76	
E	12/20/2021	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	8.050	80.50	84.70	-4.96	2.270	22.70	24.20	-6.20	
E	12/20/2021	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	7.660	76.60	75.70	1.19	2.190	21.90	21.80	0.46	
E	12/28/2021	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.370	73.70	77.10	-4.41	2.100	21.00	22.20	-5.41	
E	12/28/2021	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	9.280	92.80	84.70	9.56	2.620	26.20	24.20	8.26	10
E	12/28/2021	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	8.000	80.00	75.70	5.68	2.280	22.80	21.80	4.59	
E	1/4/2022	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	8.020	80.20	75.70	5.94	2.270	22.70	21.80	4.13	
E	1/5/2022	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.270	72.70	77.10	-5.71	2.050	20.50	22.20	-7.66	
E	1/5/2022	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	8.650	86.50	84.70	2.13	2.440	24.40	24.20	0.83	
E	1/13/2022	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.370	73.70	77.10	-4.41	2.110	21.10	22.20	-4.95	
E	1/13/2022	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	8.320	83.20	84.70	-1.77	2.360	23.60	24.20	-2.48	
E	1/13/2022	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	7.620	76.20	75.70	0.66	2.170	21.70	21.80	-0.46	
E	1/16/2022	Head	D5GHzV2 SN:1003 (5.25 GHz)	2/17/2022	7.930	79.30	77.10	2.85	2.270	22.70	22.20	2.25	
E	1/16/2022	Head	D5GHzV2 SN:1003 (5.60 GHz)	2/17/2022	8.620	86.20	84.70	1.77	2.440	24.40	24.20	0.83	
E	1/16/2022	Head	D5GHzV2 SN:1003 (5.75 GHz)	2/17/2022	7.790	77.90	75.70	2.91	2.220	22.20	21.80	1.83	

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Date	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
F	12/14/2021	Head	D3500V2 SN:1011	4/15/2022	6.510	65.10	62.90	3.50	2.470	24.70	23.41	5.51	
F	12/21/2021	Head	D3500V2 SN:1011	4/15/2022	5.970	59.70	62.90	-5.09	2.280	22.80	23.41	-2.61	
F	12/28/2021	Head	D3500V2 SN:1011	4/15/2022	6.260	62.60	62.90	-0.48	2.390	23.90	23.41	2.09	
F	12/28/2021	Head	D3700V2 SN:1039	4/16/2022	6.570	65.70	66.40	-1.05	2.420	24.20	24.00	0.83	
F	1/4/2022	Head	D3500V2 SN:1011	4/15/2022	5.720	57.20	62.90	-9.06	2.170	21.70	23.41	-7.30	11
F	1/4/2022	Head	D3700V2 SN:1039	4/16/2022	6.120	61.20	66.40	-7.83	2.260	22.60	24.00	-5.83	12
F	1/10/2022	Head	D3500V2 SN:1011	4/15/2022	6.490	64.90	62.90	3.18	2.470	24.70	23.41	5.51	
F	1/10/2022	Head	D3700V2 SN:1039	4/16/2022	6.790	67.90	66.40	2.26	2.510	25.10	24.00	4.58	
F	1/14/2022	Head	D3900V2 SN:1052	9/16/2022	6.860	68.60	70.10	-2.14	2.430	24.30	24.30	0.00	13
F	1/14/2022	Head	D3500V2 SN:1060	2/25/2022	6.150	61.50	62.10	-0.97	2.340	23.40	23.53	-0.55	
F	1/20/2022	Head	D3500V2 SN:1060	2/25/2022	6.370	63.70	62.10	2.58	2.430	24.30	23.53	3.27	14
F	1/20/2022	Head	D3700V2 SN:1039	4/16/2022	6.890	68.90	66.40	3.77	2.540	25.40	24.00	5.83	
G	12/14/2021	Head	D2450V2 SN:748	2/19/2022	5.660	56.60	52.15	8.53	2.620	26.20	24.48	7.03	15
G	12/17/2021	Head	D2450V2 SN:748	2/19/2022	5.010	50.10	52.15	-3.93	2.320	23.20	24.48	-5.23	
G	12/20/2021	Head	D2450V2 SN:748	2/19/2022	5.620	56.20	52.15	7.77	2.600	26.00	24.48	6.21	
G	12/26/2021	Head	D2450V2 SN:748	2/19/2022	5.150	51.50	52.15	-1.25	2.380	23.80	24.48	-2.78	
G	12/30/2021	Head	D2450V2 SN:748	2/19/2022	5.130	51.30	52.15	-1.63	2.400	24.00	24.48	-1.96	
G	1/4/2022	Head	D2450V2 SN:748	2/19/2022	5.060	50.60	52.15	-2.97	2.380	23.80	24.48	-2.78	
G	1/5/2022	Head	D3500V2 SN:1011	4/15/2022	6.440	64.40	62.90	2.38	2.490	24.90	23.41	6.36	16
G	1/10/2022	Head	D3500V2 SN:1011	4/15/2022	6.360	63.60	62.90	1.11	2.490	24.90	23.41	6.36	
G	1/13/2022	Head	D2450V2 SN:748	2/19/2022	5.580	55.80	52.15	7.00	2.630	26.30	24.48	7.43	
G	1/20/2022	Head	D3700V2 SN:1039	4/16/2022	6.930	69.30	66.40	4.37	2.620	26.20	24.00	9.17	17
H	12/14/2021	Head	D3500V2 SN:1011	4/15/2022	6.540	65.40	62.90	3.97	2.570	25.70	23.41	9.78	18
H	12/17/2021	Head	D3500V2 SN:1011	4/15/2022	6.320	63.20	62.90	0.48	2.520	25.20	23.41	7.65	
H	12/17/2021	Head	D3700V2 SN:1039	4/16/2022	6.670	66.70	66.40	0.45	2.590	25.90	24.00	7.92	
H	12/20/2021	Head	D3500V2 SN:1011	4/15/2022	6.250	62.50	62.90	-0.64	2.420	24.20	23.41	3.37	
H	12/20/2021	Head	D3700V2 SN:1039	4/16/2022	6.500	65.00	66.40	-2.11	2.450	24.50	24.00	2.08	
H	12/28/2021	Head	D3500V2 SN:1011	4/15/2022	6.480	64.80	62.90	3.02	2.510	25.10	23.41	7.22	
H	12/28/2021	Head	D3700V2 SN:1039	4/16/2022	6.750	67.50	66.40	1.66	2.530	25.30	24.00	5.42	
H	12/29/2021	Head	D3900V2 SN:1052	9/16/2022	6.720	67.20	70.10	-4.14	2.430	24.30	24.30	0.00	
H	1/4/2022	Head	D3500V2 SN:1011	4/15/2022	6.320	63.20	62.90	0.48	2.440	24.40	23.41	4.23	
H	1/4/2022	Head	D3700V2 SN:1039	4/16/2022	6.480	64.80	66.40	-2.41	2.420	24.20	24.00	0.83	
H	1/4/2022	Head	D3900V2 SN:1052	9/16/2022	6.540	65.40	70.10	-6.70	2.350	23.50	24.30	-3.29	19
H	1/10/2022	Head	D3500V2 SN:1011	4/15/2022	6.480	64.80	62.90	3.02	2.510	25.10	23.41	7.22	
H	1/10/2022	Head	D3700V2 SN:1039	4/16/2022	6.830	68.30	66.40	2.86	2.550	25.50	24.00	6.25	20
H	1/10/2022	Head	D3900V2 SN:1052	9/16/2022	6.730	67.30	70.10	-3.99	2.430	24.30	24.30	0.00	
H	1/14/2022	Head	D3500V2 SN:1011	4/15/2022	6.280	62.80	62.90	-0.16	2.480	24.80	23.41	5.94	
H	1/14/2022	Head	D3700V2 SN:1039	4/16/2022	6.820	68.20	66.40	2.71	2.590	25.90	24.00	7.92	

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

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

Two different powers are being displayed in this section:

- Target Output Power: Power not including the + tolerance
- Tune-Up Limit: Power of target + tolerance.

9.1. GSM

Per KDB 941225 D01 3G SAR Procedures:

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

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

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

Per October 2013 TCB Workshop:

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

Output Power for GSM

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

RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT2			ANT1		ANT2	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
GSM850	Voice/GPRS (1 slot)	32.50	32.40	30.80	30.80	1.0 / -1.0	33.50	33.40	31.80	31.80
	GPRS 2 slots	31.50	29.40	29.80	29.80	1.0 / -1.0	32.50	30.40	30.80	30.80
	EGPRS 1 slot	27.00	27.00	25.30	25.30	1.0 / -1.0	28.00	28.00	26.30	26.30
	EGPRS 2 slots	26.00	26.00	24.30	24.30	1.0 / -1.0	27.00	27.00	25.30	25.30
GSM1900	Voice/GPRS (1 slot)	29.50	26.60	26.20	27.00	1.0 / -1.0	30.50	27.60	27.20	28.00
	GPRS 2 slots	28.10	23.60	23.20	24.10	1.0 / -1.0	29.10	24.60	24.20	25.10
	EGPRS 1 slot	26.00	26.00	22.00	22.00	1.0 / -1.0	27.00	27.00	23.00	23.00
	EGPRS 2 slots	25.00	23.60	21.00	21.00	1.0 / -1.0	26.00	24.60	22.00	22.00

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	32.4	23.4	33.5	24.5	32.4	23.4	33.4	24.4
			190	836.6	32.3	23.3			32.3	23.2		
			251	848.8	32.3	23.3			32.3	23.2		
		2	128	824.2	31.6	25.6	32.5	26.5	29.5	23.5	30.4	24.4
			190	836.6	31.6	25.5			29.5	23.5		
			251	848.8	31.5	25.5			29.5	23.4		
EDGE (8PSK)	MCS5	1	128	824.2	27.5	18.4	28.0	19.0	27.5	18.4	28.0	19.0
			190	836.6	27.5	18.5			27.5	18.5		
			251	848.8	27.3	18.3			27.3	18.3		
		2	128	824.2	26.5	20.5	27.0	21.0	26.5	20.5	27.0	21.0
			190	836.6	26.5	20.4			26.5	20.4		
			251	848.8	26.4	20.4			26.4	20.4		

Note(s):

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

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	30.7	21.7	31.8	22.8	30.7	21.7	31.8	22.8
			190	836.6	30.8	21.7			30.8	21.7		
			251	848.8	30.6	21.6			30.6	21.6		
		2	128	824.2	29.7	23.7	30.8	24.8	29.7	23.7	30.8	24.8
			190	836.6	29.7	23.7			29.7	23.7		
			251	848.8	29.6	23.6			29.6	23.6		
EDGE (8PSK)	MCS5	1	128	824.2	25.1	16.1	26.3	17.3	25.1	16.1	26.3	17.3
			190	836.6	25.2	16.2			25.2	16.2		
			251	848.8	25.0	16.0			25.0	16.0		
		2	128	824.2	24.2	18.1	25.3	19.3	24.2	18.1	25.3	19.3
			190	836.6	24.2	18.2			24.2	18.2		
			251	848.8	24.0	18.0			24.0	18.0		

Note(s):

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

GSM1900 Measured Results (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	30.5	21.5	30.5	21.5	26.1	17.1	27.6	18.6
			661	1880.0	30.5	21.4			26.1	17.1		
			810	1909.8	30.5	21.5			26.2	17.1		
		2	512	1850.2	28.3	22.3	29.1	23.1	23.7	17.6	24.6	18.6
			661	1880.0	28.6	22.6			23.8	17.8		
			810	1909.8	28.3	22.3			23.8	17.8		
EDGE (8PSK)	MCS5	1	512	1850.2	26.1	17.0	27.0	18.0	26.0	17.0	27.0	18.0
			661	1880.0	26.2	17.2			26.1	17.1		
			810	1909.8	27.0	18.0			26.1	17.0		
		2	512	1850.2	26.0	20.0	26.0	20.0	24.2	18.2	24.6	18.6
			661	1880.0	26.0	20.0			24.1	18.1		
			810	1909.8	25.9	19.9			24.0	18.0		

Note(s):

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

GSM1900 Measured Results (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	26.4	17.4	27.2	18.2	27.2	18.2	28.0	19.0
			661	1880.0	26.3	17.3			27.2	18.2		
			810	1909.8	26.3	17.3			27.1	18.1		
		2	512	1850.2	23.4	17.4	24.2	18.2	24.3	18.3	25.1	19.1
			661	1880.0	23.3	17.2			24.2	18.2		
			810	1909.8	23.2	17.2			24.2	18.2		
EDGE (8PSK)	MCS5	1	512	1850.2	23.0	13.9	23.0	14.0	23.0	13.9	23.0	14.0
			661	1880.0	22.8	13.8			22.8	13.8		
			810	1909.8	22.7	13.7			22.7	13.7		
		2	512	1850.2	21.2	15.2	22.0	16.0	21.2	15.2	22.0	16.0
			661	1880.0	21.1	15.1			21.1	15.1		
			810	1909.8	21.0	15.0			21.0	15.0		

Note(s):

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

9.2. W-CDMA

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

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

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1. A summary of these settings are illustrated below:

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

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to 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} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

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

HSUPA Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to 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} (Note 1)	β_{EC}	β_{ES} (Note 4) (Note 5)	β_{ES} (SF)	β_{ES} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	8/15	15/15	64	8/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ES1}: 47/15$ $\beta_{ES2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

DC-HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests for DC-HSDPA were completed according to 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	Processes	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 (Note 3)	β_d	β_{HS} (Note 1)	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	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CGI} = 30/15$ with $\beta_{HS} = 30/15 \cdot \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: CM is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ 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.											

Output Power for W-CDMA

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

RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT2			ANT1		ANT2	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
W-CDMA Band 2	R99	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
	HSDPA	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
	HSUPA	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
	DC-HSDPA	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
	HSPA+	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
W-CDMA Band 4	R99	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
	HSDPA	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
	HSUPA	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
	DC-HSDPA	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
	HSPA+	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
W-CDMA Band 5	R99	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
	HSDPA	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
	HSUPA	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
	DC-HSDPA	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
	HSPA+	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20

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	22.8	N/A	23.1	18.2	N/A	18.6
		9400	1880.0	22.6			18.1		
		9538	1907.6	22.6			18.0		
HSDPA	Subtest 1	9262	1852.4	21.5	0	23.1	17.1	0	18.6
		9400	1880.0	21.4			16.9		
		9538	1907.6	21.3			16.9		
	Subtest 2	9262	1852.4	21.4	0	23.1	17.0	0	18.6
		9400	1880.0	21.4			16.9		
		9538	1907.6	21.3			16.8		
	Subtest 3	9262	1852.4	20.9	0.5	22.6	16.5	0.5	18.1
		9400	1880.0	20.8			16.4		
		9538	1907.6	20.8			16.4		
	Subtest 4	9262	1852.4	21.0	0.5	22.6	16.5	0.5	18.1
		9400	1880.0	20.8			16.4		
		9538	1907.6	20.8			16.3		
HSUPA	Subtest 1	9262	1852.4	21.4	0	23.1	17.0	0	18.6
		9400	1880.0	21.4			16.9		
		9538	1907.6	21.3			16.9		
	Subtest 2	9262	1852.4	19.4	2	21.1	14.9	2	16.6
		9400	1880.0	19.4			14.9		
		9538	1907.6	19.4			14.9		
	Subtest 3	9262	1852.4	20.4	1	22.1	15.9	1	17.6
		9400	1880.0	20.4			15.9		
		9538	1907.6	20.3			15.9		
	Subtest 4	9262	1852.4	19.4	2	21.1	14.9	2	16.6
		9400	1880.0	19.4			14.9		
		9538	1907.6	19.3			14.8		
	Subtest 5	9262	1852.4	21.4	0	23.1	16.9	0	18.6
		9400	1880.0	21.4			16.9		
		9538	1907.6	21.3			16.9		
DC-HSDPA	Subtest 1	9262	1852.4	21.4	0	23.1	17.0	0	18.6
		9400	1880.0	21.3			16.8		
		9538	1907.6	21.3			16.8		
	Subtest 2	9262	1852.4	21.4	0	23.1	16.9	0	18.6
		9400	1880.0	21.3			16.9		
		9538	1907.6	21.2			16.8		
	Subtest 3	9262	1852.4	20.9	0.5	22.6	16.4	0.5	18.1
		9400	1880.0	20.8			16.3		
		9538	1907.6	20.8			16.4		
	Subtest 4	9262	1852.4	20.9	0.5	22.6	16.5	0.5	18.1
		9400	1880.0	20.8			16.3		
		9538	1907.6	20.7			16.3		
HSPA+	Subtest 1	9262	1852.4	19.9	2.5	20.6	15.6	2.5	16.1
		9400	1880.0	19.9			15.6		
		9538	1907.6	19.8			15.6		

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	17.3	N/A	18.2	18.8	N/A	19.1
		9400	1880.0	17.3			18.8		
		9538	1907.6	17.3			18.8		
HSDPA	Subtest 1	9262	1852.4	16.6	0	18.2	17.5	0	19.1
		9400	1880.0	16.4			17.4		
		9538	1907.6	16.4			17.4		
	Subtest 2	9262	1852.4	16.5	0	18.2	17.4	0	19.1
		9400	1880.0	16.4			17.4		
		9538	1907.6	16.3			17.3		
	Subtest 3	9262	1852.4	16.0	0.5	17.7	16.9	0.5	18.6
		9400	1880.0	15.8			16.8		
		9538	1907.6	15.9			16.9		
	Subtest 4	9262	1852.4	16.0	0.5	17.7	16.9	0.5	18.6
		9400	1880.0	15.9			16.8		
		9538	1907.6	15.9			16.8		
HSUPA	Subtest 1	9262	1852.4	16.5	0	18.2	17.4	0	19.1
		9400	1880.0	16.4			17.3		
		9538	1907.6	16.4			17.4		
	Subtest 2	9262	1852.4	14.5	2	16.2	15.4	2	17.1
		9400	1880.0	14.4			15.4		
		9538	1907.6	14.4			15.4		
	Subtest 3	9262	1852.4	15.4	1	17.2	16.4	1	18.1
		9400	1880.0	15.4			16.4		
		9538	1907.6	15.4			16.3		
	Subtest 4	9262	1852.4	14.5	2	16.2	15.4	2	17.1
		9400	1880.0	14.4			15.3		
		9538	1907.6	14.4			15.3		
	Subtest 5	9262	1852.4	16.5	0	18.2	17.4	0	19.1
		9400	1880.0	16.4			17.4		
		9538	1907.6	16.4			17.4		
DC-HSDPA	Subtest 1	9262	1852.4	16.5	0	18.2	17.5	0	19.1
		9400	1880.0	16.3			17.3		
		9538	1907.6	16.4			17.4		
	Subtest 2	9262	1852.4	16.4	0	18.2	17.4	0	19.1
		9400	1880.0	16.3			17.3		
		9538	1907.6	16.3			17.2		
	Subtest 3	9262	1852.4	15.9	0.5	17.7	16.9	0.5	18.6
		9400	1880.0	15.9			16.8		
		9538	1907.6	15.9			16.8		
	Subtest 4	9262	1852.4	16.0	0.5	17.7	16.9	0.5	18.6
		9400	1880.0	15.8			16.8		
		9538	1907.6	15.7			16.7		
HSPA+	Subtest 1	9262	1852.4	15.0	2.5	15.7	15.9	2.5	16.6
		9400	1880.0	15.0			15.9		
		9538	1907.6	15.0			15.9		

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	24.3	N/A	24.3	21.1	N/A	21.5
		1413	1732.6	24.3			20.9		
		1513	1752.6	24.3			21.0		
HSDPA	Subtest 1	1312	1712.4	23.4	0	24.3	20.1	0	21.5
		1413	1732.6	23.3			20.0		
		1513	1752.6	23.3			20.0		
	Subtest 2	1312	1712.4	23.4	0	24.3	20.0	0	21.5
		1413	1732.6	23.3			20.0		
		1513	1752.6	23.2			19.9		
	Subtest 3	1312	1712.4	22.8	0.5	23.8	19.6	0.5	21.0
		1413	1732.6	22.7			19.5		
		1513	1752.6	22.8			19.5		
	Subtest 4	1312	1712.4	22.9	0.5	23.8	19.6	0.5	21.0
		1413	1732.6	22.7			19.5		
		1513	1752.6	22.8			19.5		
HSUPA	Subtest 1	1312	1712.4	23.4	0	24.3	20.1	0	21.5
		1413	1732.6	23.3			20.0		
		1513	1752.6	23.3			20.0		
	Subtest 2	1312	1712.4	21.3	2	22.3	18.1	2	19.5
		1413	1732.6	21.3			18.0		
		1513	1752.6	21.4			18.0		
	Subtest 3	1312	1712.4	22.3	1	23.3	19.0	1	20.5
		1413	1732.6	22.3			19.1		
		1513	1752.6	22.3			19.0		
	Subtest 4	1312	1712.4	21.3	2	22.3	18.1	2	19.5
		1413	1732.6	21.3			18.0		
		1513	1752.6	21.3			18.0		
	Subtest 5	1312	1712.4	23.4	0	24.3	20.0	0	21.5
		1413	1732.6	23.3			20.0		
		1513	1752.6	23.3			20.0		
DC-HSDPA	Subtest 1	1312	1712.4	23.4	0	24.3	20.1	0	21.5
		1413	1732.6	23.2			19.9		
		1513	1752.6	23.2			20.0		
	Subtest 2	1312	1712.4	23.3	0	24.3	20.0	0	21.5
		1413	1732.6	23.3			19.9		
		1513	1752.6	23.2			19.8		
	Subtest 3	1312	1712.4	22.8	0.5	23.8	19.5	0.5	21.0
		1413	1732.6	22.8			19.5		
		1513	1752.6	22.7			19.4		
	Subtest 4	1312	1712.4	22.9	0.5	23.8	19.6	0.5	21.0
		1413	1732.6	22.7			19.4		
		1513	1752.6	22.7			19.4		
HSPA+	Subtest 1	1312	1712.4	21.2	2.5	21.8	18.5	2.5	19.0
		1413	1732.6	21.2			18.5		
		1513	1752.6	21.2			18.5		

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	17.5	N/A	18.2	19.8	N/A	20.0
		1413	1732.6	17.6			19.9		
		1513	1752.6	17.5			19.9		
HSDPA	Subtest 1	1312	1712.4	16.7	0	18.2	18.6	0	20.0
		1413	1732.6	16.5			18.3		
		1513	1752.6	16.4			18.3		
	Subtest 2	1312	1712.4	16.6	0	18.2	18.5	0	20.0
		1413	1732.6	16.6			18.5		
		1513	1752.6	16.4			18.3		
	Subtest 3	1312	1712.4	16.1	0.5	17.7	18.0	0.5	19.5
		1413	1732.6	16.0			17.9		
		1513	1752.6	16.0			17.9		
	Subtest 4	1312	1712.4	16.1	0.5	17.7	17.9	0.5	19.5
		1413	1732.6	16.0			17.9		
		1513	1752.6	16.0			17.8		
HSUPA	Subtest 1	1312	1712.4	16.5	0	18.2	18.4	0	20.0
		1413	1732.6	16.6			18.4		
		1513	1752.6	16.5			18.3		
	Subtest 2	1312	1712.4	14.6	2	16.2	16.4	2	18.0
		1413	1732.6	14.5			16.4		
		1513	1752.6	14.6			16.5		
	Subtest 3	1312	1712.4	15.6	1	17.2	17.5	1	19.0
		1413	1732.6	15.5			17.3		
		1513	1752.6	15.4			17.2		
	Subtest 4	1312	1712.4	14.6	2	16.2	16.5	2	18.0
		1413	1732.6	14.6			16.4		
		1513	1752.6	14.5			16.3		
	Subtest 5	1312	1712.4	16.6	0	18.2	18.5	0	20.0
		1413	1732.6	16.5			18.3		
		1513	1752.6	16.4			18.2		
DC-HSDPA	Subtest 1	1312	1712.4	16.6	0	18.2	18.5	0	20.0
		1413	1732.6	16.5			18.3		
		1513	1752.6	16.6			18.5		
	Subtest 2	1312	1712.4	16.5	0	18.2	18.3	0	20.0
		1413	1732.6	16.5			18.4		
		1513	1752.6	16.3			18.2		
	Subtest 3	1312	1712.4	16.0	0.5	17.7	17.8	0.5	19.5
		1413	1732.6	15.9			17.7		
		1513	1752.6	16.0			17.9		
	Subtest 4	1312	1712.4	16.1	0.5	17.7	17.9	0.5	19.5
		1413	1732.6	16.0			17.9		
		1513	1752.6	15.9			17.8		
HSPA+	Subtest 1	1312	1712.4	14.9	2.5	15.7	16.9	2.5	17.5
		1413	1732.6	14.9			16.9		
		1513	1752.6	14.9			16.9		

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	25.0	N/A	25.7	23.6	N/A	24.4
		4183	836.6	24.9			23.6		
		4233	846.6	24.9			23.6		
HSDPA	Subtest 1	4132	826.4	24.0	0	25.7	22.8	0	24.4
		4183	836.6	23.9			22.7		
		4233	846.6	23.9			22.7		
	Subtest 2	4132	826.4	24.0	0	25.7	22.8	0	24.4
		4183	836.6	23.9			22.6		
		4233	846.6	23.9			22.6		
	Subtest 3	4132	826.4	23.5	0.5	25.2	22.2	0.5	23.9
		4183	836.6	23.4			22.2		
		4233	846.6	23.3			22.0		
	Subtest 4	4132	826.4	23.5	0.5	25.2	22.3	0.5	23.9
		4183	836.6	23.4			22.2		
		4233	846.6	23.4			22.2		
HSUPA	Subtest 1	4132	826.4	24.0	0	25.7	22.8	0	24.4
		4183	836.6	23.9			22.7		
		4233	846.6	23.9			22.7		
	Subtest 2	4132	826.4	22.0	2	23.7	20.7	2	22.4
		4183	836.6	21.9			20.7		
		4233	846.6	21.9			20.7		
	Subtest 3	4132	826.4	23.0	1	24.7	21.8	1	23.4
		4183	836.6	22.9			21.7		
		4233	846.6	22.9			21.7		
	Subtest 4	4132	826.4	22.0	2	23.7	20.7	2	22.4
		4183	836.6	22.0			20.7		
		4233	846.6	21.7			20.5		
	Subtest 5	4132	826.4	24.0	0	25.7	22.7	0	24.4
		4183	836.6	23.9			22.6		
		4233	846.6	23.9			22.6		
DC-HSDPA	Subtest 1	4132	826.4	24.0	0	25.7	22.8	0	24.4
		4183	836.6	23.9			22.6		
		4233	846.6	23.9			22.6		
	Subtest 2	4132	826.4	23.9	0	25.7	22.6	0	24.4
		4183	836.6	23.9			22.6		
		4233	846.6	23.8			22.6		
	Subtest 3	4132	826.4	23.5	0.5	25.2	22.3	0.5	23.9
		4183	836.6	23.4			22.1		
		4233	846.6	23.3			22.0		
	Subtest 4	4132	826.4	23.5	0.5	25.2	22.2	0.5	23.9
		4183	836.6	23.4			22.2		
		4233	846.6	23.3			22.1		
HSPA+	Subtest 1	4132	826.4	22.7	2.5	23.2	21.4	2.5	21.9
		4183	836.6	22.8			21.3		
		4233	846.6	22.8			21.3		

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	23.3	N/A	24.2	23.3	N/A	24.2
		4183	836.6	23.3			23.3		
		4233	846.6	23.4			23.4		
HSDPA	Subtest 1	4132	826.4	23.2	0	24.2	23.2	0	24.2
		4183	836.6	23.0			23.0		
		4233	846.6	23.0			23.0		
	Subtest 2	4132	826.4	23.2	0	24.2	23.2	0	24.2
		4183	836.6	23.0			23.0		
		4233	846.6	23.0			23.0		
	Subtest 3	4132	826.4	22.6	0.5	23.7	22.6	0.5	23.7
		4183	836.6	22.6			22.6		
		4233	846.6	22.4			22.4		
	Subtest 4	4132	826.4	22.7	0.5	23.7	22.7	0.5	23.7
		4183	836.6	22.6			22.6		
		4233	846.6	22.6			22.6		
HSUPA	Subtest 1	4132	826.4	23.1	0	24.2	23.1	0	24.2
		4183	836.6	23.1			23.1		
		4233	846.6	23.1			23.1		
	Subtest 2	4132	826.4	21.2	2	22.2	21.2	2	22.2
		4183	836.6	21.0			21.0		
		4233	846.6	21.1			21.1		
	Subtest 3	4132	826.4	22.2	1	23.2	22.2	1	23.2
		4183	836.6	22.0			22.0		
		4233	846.6	22.1			22.1		
	Subtest 4	4132	826.4	21.1	2	22.2	21.1	2	22.2
		4183	836.6	21.1			21.1		
		4233	846.6	20.9			20.9		
	Subtest 5	4132	826.4	23.1	0	24.2	23.1	0	24.2
		4183	836.6	23.0			23.0		
		4233	846.6	23.1			23.1		
DC-HSDPA	Subtest 1	4132	826.4	23.2	0	24.2	23.2	0	24.2
		4183	836.6	23.0			23.0		
		4233	846.6	23.1			23.1		
	Subtest 2	4132	826.4	23.0	0	24.2	23.0	0	24.2
		4183	836.6	23.1			23.1		
		4233	846.6	23.0			23.0		
	Subtest 3	4132	826.4	22.7	0.5	23.7	22.7	0.5	23.7
		4183	836.6	22.5			22.5		
		4233	846.6	22.4			22.4		
	Subtest 4	4132	826.4	22.7	0.5	23.7	22.7	0.5	23.7
		4183	836.6	22.6			22.6		
		4233	846.6	22.5			22.5		
HSPA+	Subtest 1	4132	826.4	21.0	2.5	21.7	21.0	2.5	21.7
		4183	836.6	21.0			21.0		
		4233	846.6	21.0			21.0		

9.3. LTE

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

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

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

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

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

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

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

Output Power for LTE

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

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

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

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

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

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

RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT2			ANT1		ANT2	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
LTE Band 2	QPSK	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
LTE Band 4	QPSK	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
LTE Band 5	QPSK	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
LTE Band 7	QPSK	23.60	17.70	14.60	16.10	0.7 / -1.0	24.30	18.40	15.30	16.80
LTE Band 12	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
LTE Band 13	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
LTE Band 14	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
LTE Band 17	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
LTE Band 25	QPSK	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
LTE Band 26	QPSK	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
LTE Band 30	QPSK	23.30	18.60	17.70	17.50	0.7 / -1.0	24.00	19.30	18.40	18.20
LTE Band 41 (PC3)	QPSK	25.00	20.10	16.70	17.90	0.7 / -1.0	25.70	20.80	17.40	18.60
LTE Band 41 (PC 2)	QPSK	26.10	N/A	N/A	N/A	0.7 / -1.0	26.80	N/A	N/A	N/A
LTE Band 66	QPSK	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
LTE Band 71	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT4			ANT1		ANT4	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
LTE Band 48	QPSK	22.00	22.00	18.50	21.80	0.7 / -1.0	22.70	22.70	19.20	22.50

LTE Band 5 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit	
				836.5 MHz	836.5 MHz				836.5 MHz	836.5 MHz			
10 MHz	QPSK	1	0	24.6	24.6	0	25.7		23.6	23.6	0	24.4	
		1	25	24.7	24.7	0	25.7		23.7	23.7	0	24.4	
		1	49	24.6	24.6	0	25.7		23.6	23.6	0	24.4	
		25	0	23.8	23.8	1	24.7		23.7	23.7	0	24.4	
		25	12	23.9	23.9	1	24.7		23.8	23.8	0	24.4	
		25	25	23.8	23.8	1	24.7		23.7	23.7	0	24.4	
	16QAM	50	0	23.8	23.8	1	24.7		23.8	23.8	0	24.4	
		1	0	23.8	23.8	1	24.7		23.6	23.6	0	24.4	
		1	25	23.7	23.7	1	24.7		23.6	23.6	0	24.4	
		1	49	23.8	23.8	1	24.7		23.6	23.6	0	24.4	
		25	0	22.8	22.8	2	23.7		23.3	23.3	0.7	23.7	
		25	12	22.9	22.9	2	23.7		23.4	23.4	0.7	23.7	
	64QAM	25	25	22.8	22.8	2	23.7		23.4	23.4	0.7	23.7	
		50	0	22.8	22.8	2	23.7		23.4	23.4	0.7	23.7	
		1	0	22.5	22.5	2	23.7		23.4	23.4	0.7	23.7	
		1	25	22.4	22.4	2	23.7		23.2	23.2	0.7	23.7	
		1	49	22.4	22.4	2	23.7		23.4	23.4	0.7	23.7	
		25	0	21.4	21.4	3	22.7		22.4	22.4	1.7	22.7	
	256QAM	25	12	21.3	21.3	3	22.7		22.4	22.4	1.7	22.7	
		25	25	21.3	21.3	3	22.7		22.3	22.3	1.7	22.7	
		50	0	21.4	21.4	3	22.7		22.3	22.3	1.7	22.7	
		1	0	19.0	19.0	5	20.7		19.1	19.1	3.7	20.7	
		1	25	19.1	19.1	5	20.7		19.1	19.1	3.7	20.7	
		1	49	19.2	19.2	5	20.7		19.2	19.2	3.7	20.7	
		25	0	19.2	19.2	5	20.7		19.2	19.2	3.7	20.7	
		25	12	19.2	19.2	5	20.7		19.3	19.3	3.7	20.7	
		25	25	19.2	19.2	5	20.7		19.2	19.2	3.7	20.7	
		50	0	19.2	19.2	5	20.7		19.2	19.2	3.7	20.7	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20425	20525	20625	MPR	Tune-up Limit	20425	20525	20625	MPR	Tune-up Limit
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	25.0	24.9	24.8	0	25.7	23.7	23.9	23.7	0	24.4
		1	12	24.8	25.0	24.7	0	25.7	23.6	23.9	23.6	0	24.4
		1	24	24.8	24.8	24.7	0	25.7	23.6	23.8	23.6	0	24.4
		12	0	23.8	23.8	23.8	1	24.7	23.7	23.7	23.7	0	24.4
		12	7	23.9	23.8	23.8	1	24.7	23.7	23.7	23.7	0	24.4
		12	13	23.8	23.8	23.8	1	24.7	23.7	23.7	23.7	0	24.4
	16QAM	25	0	23.8	23.8	23.8	1	24.7	23.7	23.8	23.7	0	24.4
		1	0	24.0	24.0	24.4	1	24.7	23.9	23.9	24.1	0	24.4
		1	12	23.9	23.9	24.4	1	24.7	23.7	23.8	24.1	0	24.4
		1	24	23.9	24.0	24.3	1	24.7	23.9	23.8	24.1	0	24.4
		12	0	22.9	22.8	23.0	2	23.7	23.4	23.4	23.5	0.7	23.7
		12	7	22.9	22.9	23.0	2	23.7	23.4	23.5	23.4	0.7	23.7
	64QAM	12	13	22.9	22.8	22.9	2	23.7	23.3	23.4	23.5	0.7	23.7
		25	0	22.8	22.9	22.9	2	23.7	23.3	23.4	23.4	0.7	23.7
		1	0	22.4	22.4	22.5	2	23.7	23.3	23.4	23.3	0.7	23.7
		1	12	22.5	22.5	22.5	2	23.7	23.4	23.3	23.3	0.7	23.7
		1	24	22.4	22.5	22.3	2	23.7	23.3	23.3	23.4	0.7	23.7
		12	0	21.5	21.4	21.3	3	22.7	22.4	22.2	22.4	1.7	22.7
	256QAM	12	7	21.3	21.4	21.3	3	22.7	22.3	22.3	22.2	1.7	22.7
		12	13	21.4	21.3	21.5	3	22.7	22.3	22.4	22.3	1.7	22.7
		25	0	21.4	21.5	21.5	3	22.7	22.3	22.3	22.4	1.7	22.7
		1	0	19.2	18.9	19.3	5	20.7	19.2	19.3	19.3	3.7	20.7
		1	12	19.1	18.9	19.3	5	20.7	19.1	19.3	19.3	3.7	20.7
		1	24	19.2	18.8	19.3	5	20.7	19.2	19.3	19.3	3.7	20.7
		12	0	19.2	19.1	19.2	5	20.7	19.2	19.2	19.2	3.7	20.7
		12	7	19.2	19.1	19.2	5	20.7	19.3	19.2	19.2	3.7	20.7
		12	13	19.2	19.1	19.2	5	20.7	19.2	19.2	19.2	3.7	20.7
		25	0	19.2	19.2	19.2	5	20.7	19.2	19.2	19.2	3.7	20.7

LTE Band 5 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20415	20525	20635	MPR	Tune-up Limit	20415	20525	20635	MPR	Tune-up Limit
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.8	24.8	24.9	0	25.7	23.6	23.7	23.8	0	24.4
		1	8	24.8	24.9	24.8	0	25.7	23.7	23.9	23.7	0	24.4
		1	14	24.7	24.7	24.8	0	25.7	23.5	23.6	23.6	0	24.4
		8	0	23.7	23.7	23.8	1	24.7	23.6	23.7	23.7	0	24.4
		8	4	23.8	23.8	23.8	1	24.7	23.7	23.7	23.7	0	24.4
		8	7	23.8	23.8	23.9	1	24.7	23.6	23.8	23.7	0	24.4
	16QAM	15	0	23.8	23.8	23.8	1	24.7	23.7	23.8	23.6	0	24.4
		1	0	23.9	23.8	24.3	1	24.7	23.7	23.7	24.1	0	24.4
		1	8	23.8	23.7	24.1	1	24.7	23.8	23.6	24.0	0	24.4
		1	14	23.8	23.7	24.1	1	24.7	23.6	23.6	24.0	0	24.4
		8	0	22.8	22.9	22.8	2	23.7	23.3	23.4	23.3	0.7	23.7
		8	4	22.9	23.0	22.8	2	23.7	23.3	23.5	23.3	0.7	23.7
	64QAM	8	7	22.9	22.9	22.9	2	23.7	23.4	23.5	23.4	0.7	23.7
		15	0	22.8	22.9	22.8	2	23.7	23.2	23.4	23.3	0.7	23.7
		1	0	22.5	22.3	22.5	2	23.7	23.2	23.2	23.3	0.7	23.7
		1	8	22.3	22.4	22.4	2	23.7	23.3	23.4	23.2	0.7	23.7
		1	14	22.5	22.4	22.5	2	23.7	23.3	23.3	23.4	0.7	23.7
		8	0	21.5	21.4	21.3	3	22.7	22.3	22.3	22.3	1.7	22.7
	256QAM	8	4	21.5	21.4	21.4	3	22.7	22.4	22.3	22.3	1.7	22.7
		8	7	21.5	21.5	21.3	3	22.7	22.2	22.4	22.4	1.7	22.7
		15	0	21.3	21.5	21.4	3	22.7	22.2	22.3	22.3	1.7	22.7
		1	0	19.2	19.5	18.9	5	20.7	19.1	19.6	19.1	3.7	20.7
		1	8	19.2	19.5	18.9	5	20.7	19.3	19.6	19.1	3.7	20.7
		1	14	19.1	19.4	18.9	5	20.7	19.1	19.5	19.1	3.7	20.7
1.4 MHz	QPSK	8	0	19.2	19.1	19.0	5	20.7	19.2	19.2	19.0	3.7	20.7
		8	4	19.3	19.2	19.0	5	20.7	19.3	19.2	19.1	3.7	20.7
		8	7	19.3	19.3	19.2	5	20.7	19.3	19.3	19.2	3.7	20.7
		15	0	19.2	19.2	19.2	5	20.7	19.2	19.2	19.2	3.7	20.7
	16QAM	1	0	24.4	24.5	24.5	0	25.7	23.2	23.4	23.4	0	24.4
		1	3	24.5	24.5	24.5	0	25.7	23.3	23.4	23.3	0	24.4
		1	5	24.4	24.5	24.5	0	25.7	23.2	23.3	23.3	0	24.4
		3	0	24.5	24.4	24.5	0	25.7	23.2	23.3	23.4	0	24.4
		3	1	24.5	24.5	24.6	0	25.7	23.3	23.4	23.4	0	24.4
		3	3	24.5	24.5	24.6	0	25.7	23.2	23.4	23.4	0	24.4
	64QAM	6	0	23.5	23.5	23.5	1	24.7	23.3	23.4	23.4	0	24.4
		1	0	23.5	23.6	23.9	1	24.7	23.3	23.5	23.9	0	24.4
		1	3	23.6	23.6	23.9	1	24.7	23.4	23.6	23.9	0	24.4
		1	5	23.5	23.6	23.8	1	24.7	23.3	23.5	23.9	0	24.4
		3	0	23.8	23.6	23.8	1	24.7	23.5	23.5	23.6	0.7	23.7
		3	1	23.7	23.6	23.8	1	24.7	23.6	23.5	23.7	0.7	23.7
	256QAM	3	3	23.8	23.6	23.8	1	24.7	23.6	23.5	23.6	0.7	23.7
		6	0	22.7	22.7	22.4	2	23.7	23.1	23.2	22.9	0.7	23.7
		1	0	22.4	22.3	22.3	2	23.7	23.3	23.3	23.3	0.7	23.7
		1	3	22.5	22.4	22.5	2	23.7	23.4	23.2	23.3	0.7	23.7
		1	5	22.4	22.5	22.5	2	23.7	23.3	23.3	23.4	0.7	23.7
		3	0	22.4	22.5	22.3	2	23.7	22.3	22.2	22.4	1.7	22.7
1.4 MHz	64QAM	3	1	22.5	22.5	22.4	2	23.7	22.2	22.4	22.2	1.7	22.7
		3	3	22.5	22.3	22.5	2	23.7	22.3	22.2	22.2	1.7	22.7
		6	0	21.5	21.4	21.4	3	22.7	22.3	22.4	22.3	1.7	22.7
	256QAM	1	0	19.1	18.8	19.1	5	20.7	19.1	19.2	19.2	3.7	20.7
		1	3	19.3	19.0	19.2	5	20.7	19.3	19.3	19.3	3.7	20.7
		1	5	19.2	18.9	19.1	5	20.7	19.2	19.2	19.1	3.7	20.7
	256QAM	3	0	19.0	19.0	19.3	5	20.7	19.0	19.3	19.2	3.7	20.7
		3	1	19.1	19.0	19.2	5	20.7	19.1	19.3	19.1	3.7	20.7
		3	3	19.0	19.1	19.1	5	20.7	19.1	19.3	19.2	3.7	20.7
		6	0	18.9	19.2	19.2	5	20.7	19.0	19.2	19.2	3.7	20.7

LTE Band 5 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit	
				836.5 MHz					836.5 MHz				
10 MHz	QPSK	1	0	23.4		0	24.2		23.4		0	24.2	
		1	25	23.5		0	24.2		23.5		0	24.2	
		1	49	23.4		0	24.2		23.4		0	24.2	
		25	0	22.4		1	23.2		22.4		1	23.2	
		25	12	22.5		1	23.2		22.5		1	23.2	
		25	25	22.5		1	23.2		22.5		1	23.2	
	16QAM	50	0	22.5		1	23.2		22.5		1	23.2	
		1	0	22.4		1	23.2		22.4		1	23.2	
		1	25	22.3		1	23.2		22.3		1	23.2	
		1	49	22.3		1	23.2		22.3		1	23.2	
		25	0	21.5		2	22.2		21.5		2	22.2	
		25	12	21.5		2	22.2		21.5		2	22.2	
	64QAM	25	25	21.5		2	22.2		21.5		2	22.2	
		50	0	21.5		2	22.2		21.5		2	22.2	
		1	0	21.4		2	22.2		21.4		2	22.2	
		1	25	21.4		2	22.2		21.4		2	22.2	
		1	49	21.3		2	22.2		21.3		2	22.2	
		25	0	20.3		3	21.2		20.3		3	21.2	
	256QAM	25	12	20.3		3	21.2		20.3		3	21.2	
		25	25	20.3		3	21.2		20.3		3	21.2	
		50	0	20.3		3	21.2		20.3		3	21.2	
		1	0	18.2		5	19.2		18.2		5	19.2	
		1	25	18.3		5	19.2		18.3		5	19.2	
		1	49	18.4		5	19.2		18.4		5	19.2	
		25	0	18.4		5	19.2		18.4		5	19.2	
		25	12	18.4		5	19.2		18.4		5	19.2	
		25	25	18.4		5	19.2		18.4		5	19.2	
		50	0	18.4		5	19.2		18.4		5	19.2	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20425	20525	20625	MPR	Tune-up Limit	20425	20525	20625	MPR	Tune-up Limit
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	23.6	23.6	23.3	0	24.2	23.6	23.6	23.3	0	24.2
		1	12	23.5	23.4	23.3	0	24.2	23.5	23.4	23.3	0	24.2
		1	24	23.5	23.5	23.3	0	24.2	23.5	23.5	23.3	0	24.2
		12	0	22.5	22.4	22.4	1	23.2	22.5	22.4	22.4	1	23.2
		12	7	22.6	22.5	22.5	1	23.2	22.6	22.5	22.5	1	23.2
		12	13	22.6	22.4	22.4	1	23.2	22.6	22.4	22.4	1	23.2
	16QAM	25	0	22.6	22.5	22.4	1	23.2	22.6	22.5	22.4	1	23.2
		1	0	22.8	22.7	23.0	1	23.2	22.8	22.7	23.0	1	23.2
		1	12	22.6	22.6	22.9	1	23.2	22.6	22.6	22.9	1	23.2
		1	24	22.7	22.6	23.0	1	23.2	22.7	22.6	23.0	1	23.2
		12	0	21.6	21.5	21.5	2	22.2	21.6	21.5	21.5	2	22.2
		12	7	21.6	21.6	21.6	2	22.2	21.6	21.6	21.6	2	22.2
	64QAM	12	13	21.6	21.5	21.6	2	22.2	21.6	21.5	21.6	2	22.2
		25	0	21.5	21.5	21.5	2	22.2	21.5	21.5	21.5	2	22.2
		1	0	21.4	21.3	21.3	2	22.2	21.4	21.3	21.3	2	22.2
		1	12	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		1	24	21.4	21.3	21.4	2	22.2	21.4	21.3	21.4	2	22.2
		12	0	20.3	20.3	20.3	3	21.2	20.3	20.3	20.3	3	21.2
	256QAM	12	7	20.3	20.4	20.4	3	21.2	20.3	20.4	20.4	3	21.2
		12	13	20.3	20.3	20.3	3	21.2	20.3	20.3	20.3	3	21.2
		25	0	20.4	20.4	20.3	3	21.2	20.4	20.4	20.3	3	21.2
		1	0	18.4	18.1	18.5	5	19.2	18.4	18.1	18.5	5	19.2
		1	12	18.3	18.1	18.5	5	19.2	18.3	18.1	18.5	5	19.2
		1	24	18.4	18.0	18.5	5	19.2	18.4	18.0	18.5	5	19.2
		12	0	18.4	18.3	18.4	5	19.2	18.4	18.3	18.4	5	19.2
		12	7	18.4	18.3	18.4	5	19.2	18.4	18.3	18.4	5	19.2
		12	13	18.4	18.3	18.4	5	19.2	18.4	18.3	18.4	5	19.2
		25	0	18.4	18.4	18.4	5	19.2	18.4	18.4	18.4	5	19.2

LTE Band 5 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20415	20525	20635	MPR	Tune-up Limit	20415	20525	20635	MPR	Tune-up Limit
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	23.4	23.4	23.4	0	24.2	23.4	23.4	23.4	0	24.2
		1	8	23.4	23.3	23.5	0	24.2	23.4	23.3	23.5	0	24.2
		1	14	23.4	23.4	23.4	0	24.2	23.4	23.4	23.4	0	24.2
		8	0	22.6	22.5	22.4	1	23.2	22.6	22.5	22.4	1	23.2
		8	4	22.5	22.5	22.5	1	23.2	22.5	22.5	22.5	1	23.2
		8	7	22.5	22.5	22.4	1	23.2	22.5	22.5	22.4	1	23.2
	16QAM	15	0	22.5	22.5	22.4	1	23.2	22.5	22.5	22.4	1	23.2
		1	0	22.6	22.4	22.8	1	23.2	22.6	22.4	22.8	1	23.2
		1	8	22.5	22.4	22.8	1	23.2	22.5	22.4	22.8	1	23.2
		1	14	22.5	22.3	22.8	1	23.2	22.5	22.3	22.8	1	23.2
		8	0	21.5	21.6	21.4	2	22.2	21.5	21.6	21.4	2	22.2
		8	4	21.6	21.6	21.6	2	22.2	21.6	21.6	21.6	2	22.2
	64QAM	8	7	21.6	21.6	21.6	2	22.2	21.6	21.6	21.6	2	22.2
		15	0	21.5	21.5	21.5	2	22.2	21.5	21.5	21.5	2	22.2
		1	0	21.4	21.3	21.4	2	22.2	21.4	21.3	21.4	2	22.2
		1	8	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		1	14	21.4	21.3	21.4	2	22.2	21.4	21.3	21.4	2	22.2
		8	0	20.3	20.4	20.3	3	21.2	20.3	20.4	20.3	3	21.2
	256QAM	8	4	20.3	20.4	20.3	3	21.2	20.3	20.4	20.3	3	21.2
		8	7	20.3	20.4	20.3	3	21.2	20.3	20.4	20.3	3	21.2
		15	0	20.3	20.3	20.4	3	21.2	20.3	20.3	20.4	3	21.2
		1	0	18.4	18.7	18.1	5	19.2	18.4	18.7	18.1	5	19.2
		1	8	18.4	18.7	18.1	5	19.2	18.4	18.7	18.1	5	19.2
		1	14	18.3	18.6	18.1	5	19.2	18.3	18.6	18.1	5	19.2
1.4 MHz	QPSK	8	0	18.4	18.3	18.2	5	19.2	18.4	18.3	18.2	5	19.2
		8	4	18.5	18.4	18.2	5	19.2	18.5	18.4	18.2	5	19.2
		8	7	18.5	18.5	18.4	5	19.2	18.5	18.5	18.4	5	19.2
		15	0	18.4	18.4	18.4	5	19.2	18.4	18.4	18.4	5	19.2
		1	0	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		1	3	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
	16QAM	1	5	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		3	0	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		3	1	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		3	3	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		6	0	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
		6	3	20.7	20.7	20.7	0	21.2	20.7	20.7	20.7	0	21.2
	64QAM	1	0	22.5	22.7	22.3	1	23.2	22.5	22.7	22.3	1	23.2
		1	3	22.6	22.8	22.4	1	23.2	22.6	22.8	22.4	1	23.2
		1	5	22.5	22.7	22.3	1	23.2	22.5	22.7	22.3	1	23.2
		3	0	22.5	22.6	22.6	1	23.2	22.5	22.6	22.6	1	23.2
		3	1	22.5	22.5	22.6	1	23.2	22.5	22.5	22.6	1	23.2
		3	3	22.6	22.6	22.6	1	23.2	22.6	22.6	22.6	1	23.2
	256QAM	6	0	21.6	21.3	21.5	2	22.2	21.6	21.3	21.5	2	22.2
		1	0	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		1	3	21.3	21.3	21.4	2	22.2	21.3	21.3	21.4	2	22.2
		1	5	21.3	21.4	21.3	2	22.2	21.3	21.4	21.3	2	22.2
		3	0	21.3	21.4	21.4	2	22.2	21.3	21.4	21.4	2	22.2
		3	1	21.4	21.3	21.3	2	22.2	21.4	21.3	21.3	2	22.2
1.4 MHz	QPSK	3	3	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		6	0	20.3	20.4	20.4	3	21.2	20.3	20.4	20.4	3	21.2
	16QAM	1	0	18.3	18.0	18.3	5	19.2	18.3	18.0	18.3	5	19.2
		1	3	18.5	18.2	18.4	5	19.2	18.5	18.2	18.4	5	19.2
		1	5	18.4	18.1	18.3	5	19.2	18.4	18.1	18.3	5	19.2
		3	0	18.2	18.2	18.5	5	19.2	18.2	18.2	18.5	5	19.2
	64QAM	3	1	18.3	18.2	18.4	5	19.2	18.3	18.2	18.4	5	19.2
		3	3	18.2	18.3	18.3	5	19.2	18.2	18.3	18.3	5	19.2
		6	0	18.1	18.4	18.4	5	19.2	18.1	18.4	18.4	5	19.2

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	23.6	23.5	23.6	0	24.3	18.2	18.1	18.1	0	18.4
		1	49	23.7	23.6	23.7	0	24.3	18.3	18.2	18.3	0	18.4
		1	99	23.6	23.5	23.6	0	24.3	18.2	18.1	18.1	0	18.4
		50	0	23.6	23.7	23.8	0	24.3	18.3	18.2	18.3	0	18.4
		50	24	23.7	23.8	23.9	0	24.3	18.4	18.3	18.4	0	18.4
	16QAM	50	50	23.6	23.6	23.8	0	24.3	18.3	18.2	18.2	0	18.4
		100	0	23.7	23.8	23.7	0	24.3	18.3	18.4	18.3	0	18.4
		1	0	24.0	24.1	24.1	0	24.3	18.4	18.3	18.3	0	18.4
		1	49	24.0	24.0	24.0	0	24.3	18.3	18.2	18.3	0	18.4
		1	99	24.1	24.1	24.1	0	24.3	18.3	18.2	18.4	0	18.4
	64QAM	50	0	23.1	23.1	23.1	0.6	23.7	18.0	17.9	18.0	0	18.4
		50	24	23.1	23.1	23.2	0.6	23.7	18.0	17.9	18.1	0	18.4
		50	50	23.0	23.0	23.1	0.6	23.7	17.9	17.8	18.0	0	18.4
		100	0	23.1	23.1	23.1	0.6	23.7	18.0	17.9	18.1	0	18.4
		1	0	23.3	23.3	23.4	0.6	23.7	18.2	18.2	18.2	0	18.4
	256QAM	1	49	23.2	23.2	23.4	0.6	23.7	18.1	18.2	18.2	0	18.4
		1	99	23.2	23.2	23.4	0.6	23.7	18.1	18.2	18.2	0	18.4
		50	0	21.9	21.9	21.9	1.6	22.7	18.1	18.0	18.1	0	18.4
		50	24	21.9	21.9	21.9	1.6	22.7	18.1	18.0	18.1	0	18.4
		50	50	21.9	21.8	21.9	1.6	22.7	18.0	17.9	18.0	0	18.4
15 MHz	QPSK	100	0	21.9	21.9	21.9	1.6	22.7	18.1	18.0	18.1	0	18.4
		1	0	19.7	20.0	20.0	2.6	21.7	18.2	18.3	18.2	0	18.4
		1	49	19.8	20.1	20.0	2.6	21.7	18.2	18.3	18.2	0	18.4
		1	99	19.9	20.0	20.0	2.6	21.7	18.2	18.3	18.2	0	18.4
		50	0	19.9	19.9	19.9	2.6	21.7	18.3	18.3	18.3	0	18.4
	16QAM	50	24	19.9	20.0	20.0	2.6	21.7	18.3	18.3	18.2	0	18.4
		50	50	20.0	19.9	19.9	2.6	21.7	18.2	18.3	18.2	0	18.4
		100	0	19.9	19.9	19.9	2.6	21.7	18.2	18.3	18.3	0	18.4
	64QAM	1	0	23.7	23.6	23.7	0	24.3	18.3	18.2	18.2	0	18.4
		1	37	23.6	23.5	23.6	0	24.3	18.3	18.1	18.1	0	18.4
		1	74	23.6	23.5	23.7	0	24.3	18.3	18.1	18.2	0	18.4
		36	0	23.7	23.7	23.7	0	24.3	18.3	18.3	18.3	0	18.4
		36	20	23.7	23.6	23.7	0	24.3	18.4	18.3	18.3	0	18.4
	256QAM	36	39	23.6	23.6	23.6	0	24.3	18.3	18.2	18.2	0	18.4
		75	0	23.6	23.6	23.7	0	24.3	18.2	18.3	18.3	0	18.4
		1	0	24.3	23.6	24.1	0	24.3	18.0	18.3	18.4	0	18.4
		1	37	24.3	23.5	24.1	0	24.3	17.9	18.3	18.4	0	18.4
		1	74	24.2	23.5	24.0	0	24.3	17.8	18.3	18.4	0	18.4
	16QAM	36	0	23.1	23.0	23.2	0.6	23.7	18.0	17.9	18.0	0	18.4
		36	20	23.1	23.0	23.2	0.6	23.7	18.0	17.9	18.0	0	18.4
		36	39	23.0	23.0	23.1	0.6	23.7	17.9	17.8	17.9	0	18.4
		75	0	23.0	23.0	23.1	0.6	23.7	17.9	17.9	18.0	0	18.4
		1	0	23.5	23.1	23.0	0.6	23.7	18.1	18.2	18.1	0	18.4
	64QAM	1	37	23.5	23.0	22.9	0.6	23.7	18.1	18.2	18.0	0	18.4
		1	74	23.4	23.0	22.9	0.6	23.7	18.0	18.1	18.1	0	18.4
		36	0	21.9	21.9	22.0	1.6	22.7	18.1	18.0	18.1	0	18.4
		36	20	21.9	21.9	22.0	1.6	22.7	18.1	18.0	18.1	0	18.4
		36	39	21.8	21.8	21.9	1.6	22.7	18.0	17.9	18.0	0	18.4
	256QAM	75	0	21.9	21.8	21.9	1.6	22.7	18.0	18.0	18.1	0	18.4
		1	0	20.3	19.7	20.1	2.6	21.7	18.1	18.3	18.1	0	18.4
		1	37	20.3	19.7	20.1	2.6	21.7	18.1	18.3	18.1	0	18.4
		1	74	20.3	19.7	20.1	2.6	21.7	18.1	18.3	18.1	0	18.4
		36	0	19.9	19.9	19.9	2.6	21.7	18.1	18.3	18.1	0	18.4
	16QAM	36	20	20.0	19.9	19.9	2.6	21.7	18.1	18.3	18.1	0	18.4
		36	39	19.9	19.9	19.9	2.6	21.7	18.1	18.3	18.1	0	18.4
		75	0	19.9	19.9	19.9	2.6	21.7	18.1	18.3	18.1	0	18.4
		1	0	20.3	19.7	20.1	2.6	21.7	18.1	18.3	18.1	0	18.4
		1	37	20.3	19.7	20.1	2.6	21.7	18.1	18.3	18.1	0	18.4

LTE Band 7 Measured Results (ANT1) (continued)

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	23.7	23.6	23.7	0	24.3	18.3	18.2	18.3	0	18.4
		1	25	23.6	23.5	23.7	0	24.3	18.3	18.2	18.2	0	18.4
		1	49	23.6	23.6	23.7	0	24.3	18.3	18.2	18.2	0	18.4
		25	0	23.8	23.7	23.8	0	24.3	18.4	18.4	18.4	0	18.4
		25	12	23.7	23.8	23.8	0	24.3	18.4	18.4	18.4	0	18.4
		25	25	23.7	23.7	23.8	0	24.3	18.4	18.3	18.3	0	18.4
	16QAM	50	0	23.7	23.7	23.8	0	24.3	18.4	18.4	18.4	0	18.4
		1	0	23.9	23.7	24.2	0	24.3	18.1	18.0	18.1	0	18.4
		1	25	23.8	23.5	24.2	0	24.3	18.0	18.0	18.0	0	18.4
		1	49	23.7	23.6	24.2	0	24.3	18.0	18.1	18.1	0	18.4
		25	0	23.3	23.2	23.3	0.6	23.7	18.2	18.2	18.2	0	18.4
		25	12	23.2	23.2	23.3	0.6	23.7	18.2	18.2	18.3	0	18.4
	64QAM	25	25	23.2	23.2	23.3	0.6	23.7	18.2	18.3	18.3	0	18.4
		50	0	23.2	23.1	23.3	0.6	23.7	18.1	18.2	18.2	0	18.4
		1	0	23.1	23.2	23.0	0.6	23.7	18.4	18.2	18.3	0	18.4
		1	25	23.0	23.1	22.9	0.6	23.7	18.3	18.2	18.3	0	18.4
		1	49	23.0	23.1	23.0	0.6	23.7	18.3	18.2	18.2	0	18.4
		25	0	22.1	22.0	22.0	1.6	22.7	18.3	18.2	18.3	0	18.4
	256QAM	25	12	22.0	22.0	22.1	1.6	22.7	18.2	18.2	18.3	0	18.4
		25	25	22.0	22.0	22.1	1.6	22.7	18.1	18.2	18.3	0	18.4
		50	0	22.0	21.9	22.1	1.6	22.7	18.2	18.1	18.2	0	18.4
		1	0	20.0	20.5	19.8	2.6	21.7	17.9	18.3	18.3	0	18.4
		1	25	20.0	20.5	19.7	2.6	21.7	17.9	18.3	18.3	0	18.4
		1	49	20.0	20.5	19.7	2.6	21.7	17.9	18.3	18.3	0	18.4
		25	0	20.1	20.1	20.1	2.6	21.7	17.9	18.3	18.3	0	18.4
		25	12	20.1	20.1	20.1	2.6	21.7	17.9	18.3	18.3	0	18.4
		25	25	20.0	20.0	20.0	2.6	21.7	17.9	18.3	18.3	0	18.4
		50	0	20.0	20.1	20.0	2.6	21.7	17.9	18.3	18.3	0	18.4
5 MHz	QPSK	1	0	23.8	23.8	23.6	0	24.3	18.4	18.3	18.2	0	18.4
		1	12	23.7	23.8	23.6	0	24.3	18.4	18.4	18.3	0	18.4
		1	24	23.8	23.7	23.7	0	24.3	18.4	18.3	18.2	0	18.4
		12	0	23.8	23.7	23.8	0	24.3	18.4	18.3	18.3	0	18.4
		12	7	23.8	23.7	23.8	0	24.3	18.3	18.3	18.3	0	18.4
		12	13	23.8	23.7	23.8	0	24.3	18.3	18.3	18.3	0	18.4
	16QAM	25	0	23.8	23.7	23.8	0	24.3	18.4	18.4	18.3	0	18.4
		1	0	23.9	23.9	24.3	0	24.3	18.3	18.2	18.3	0	18.4
		1	12	23.9	23.9	24.2	0	24.3	18.2	18.1	18.3	0	18.4
		1	24	23.9	23.8	24.3	0	24.3	18.3	18.2	18.4	0	18.4
		12	0	23.3	23.2	23.3	0.6	23.7	18.3	18.2	18.2	0	18.4
		12	7	23.3	23.2	23.3	0.6	23.7	18.3	18.2	18.1	0	18.4
	64QAM	12	13	23.3	23.2	23.4	0.6	23.7	18.3	18.2	18.2	0	18.4
		25	0	23.2	23.2	23.3	0.6	23.7	18.2	18.1	18.1	0	18.4
		1	0	23.3	22.8	23.3	0.6	23.7	18.4	18.0	18.0	0	18.4
		1	12	23.3	22.7	23.3	0.6	23.7	18.4	18.0	18.1	0	18.4
		1	24	23.3	22.7	23.2	0.6	23.7	18.4	17.9	18.0	0	18.4
		12	0	22.1	22.0	21.9	1.6	22.7	18.3	18.1	18.2	0	18.4
	256QAM	12	7	22.1	21.9	22.0	1.6	22.7	18.3	18.1	18.1	0	18.4
		12	13	22.1	21.9	22.0	1.6	22.7	18.3	18.1	18.2	0	18.4
		25	0	22.0	21.9	22.0	1.6	22.7	18.3	18.1	18.1	0	18.4
		1	0	20.1	20.1	19.7	2.6	21.7	18.4	18.0	18.0	0	18.4
		1	12	20.0	20.0	19.8	2.6	21.7	18.4	18.0	18.0	0	18.4
		1	24	20.2	20.0	19.7	2.6	21.7	18.4	18.0	18.0	0	18.4
		12	0	20.1	20.0	20.0	2.6	21.7	18.4	18.0	18.0	0	18.4
		12	7	20.0	20.1	20.0	2.6	21.7	18.4	18.0	18.0	0	18.4
		12	13	20.1	20.0	20.0	2.6	21.7	18.4	18.0	18.0	0	18.4
		25	0	20.0	20.0	20.1	2.6	21.7	18.4	18.0	18.0	0	18.4

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	14.6	14.5	14.6	0	15.3	15.9	15.9	15.9	0	16.8
		1	49	14.7	14.6	14.7	0	15.3	16.1	16.0	15.9	0	16.8
		1	99	14.7	14.6	14.7	0	15.3	16.0	15.9	15.9	0	16.8
		50	0	14.7	14.7	14.8	0	15.3	16.1	16.0	16.1	0	16.8
		50	24	14.8	14.8	14.9	0	15.3	16.2	16.1	16.2	0	16.8
	16QAM	50	50	14.8	14.6	14.8	0	15.3	16.0	15.9	16.0	0	16.8
		100	0	14.8	14.8	14.8	0	15.3	16.0	16.1	16.1	0	16.8
		1	0	14.8	14.9	14.9	0	15.3	16.2	16.2	16.3	0	16.8
		1	49	14.9	14.9	14.9	0	15.3	16.2	16.1	16.4	0	16.8
		1	99	14.8	14.9	14.9	0	15.3	16.2	16.1	16.3	0	16.8
	64QAM	50	0	14.9	14.8	14.9	0	15.3	16.2	16.0	16.1	0	16.8
		50	24	14.8	14.8	14.9	0	15.3	16.1	15.9	16.1	0	16.8
		50	50	14.8	14.7	14.8	0	15.3	16.1	15.9	16.0	0	16.8
		100	0	14.7	14.8	14.9	0	15.3	16.0	15.9	16.1	0	16.8
		1	0	14.5	14.5	14.5	0	15.3	15.9	15.9	16.0	0	16.8
	256QAM	1	49	14.4	14.5	14.5	0	15.3	16.0	15.9	16.0	0	16.8
		1	99	14.5	14.4	14.5	0	15.3	16.0	15.9	15.9	0	16.8
		50	0	14.4	14.4	14.4	0	15.3	15.9	15.9	16.0	0	16.8
		50	24	14.4	14.4	14.5	0	15.3	15.9	15.9	15.9	0	16.8
		50	50	14.4	14.4	14.5	0	15.3	15.9	15.9	15.9	0	16.8
15 MHz	QPSK	100	0	14.4	14.4	14.4	0	15.3	15.9	15.9	16.0	0	16.8
		1	0	14.4	14.4	14.4	0	15.3	15.8	15.8	15.9	0	16.8
		1	49	14.4	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	99	14.4	14.3	14.5	0	15.3	15.9	15.8	15.9	0	16.8
		50	0	14.4	14.3	14.4	0	15.3	15.8	15.8	16.0	0	16.8
	16QAM	50	24	14.4	14.3	14.4	0	15.3	15.8	15.8	15.8	0	16.8
		50	50	14.3	14.4	14.4	0	15.3	15.9	15.8	15.8	0	16.8
		100	0	14.4	14.4	14.3	0	15.3	15.8	15.8	15.9	0	16.8
	64QAM	1	0	14.7	14.6	14.8	0	15.3	16.1	16.0	16.1	0	16.8
		1	37	14.8	14.5	14.8	0	15.3	16.2	16.0	16.1	0	16.8
		1	74	14.8	14.5	14.7	0	15.3	16.2	16.0	16.1	0	16.8
		36	0	14.8	14.7	14.9	0	15.3	16.3	16.2	16.2	0	16.8
		36	20	14.9	14.7	14.9	0	15.3	16.3	16.1	16.2	0	16.8
	256QAM	36	39	14.8	14.6	14.8	0	15.3	16.3	16.1	16.1	0	16.8
		75	0	14.8	14.6	14.8	0	15.3	16.2	16.1	16.2	0	16.8
		1	0	14.9	14.7	14.9	0	15.3	16.6	16.0	16.3	0	16.8
		1	37	15.0	14.5	14.9	0	15.3	16.2	15.9	16.4	0	16.8
		1	74	15.0	14.6	14.8	0	15.3	16.3	16.0	16.3	0	16.8
15 MHz	16QAM	36	0	14.9	14.8	14.9	0	15.3	16.3	16.1	16.3	0	16.8
		36	20	14.9	14.7	14.9	0	15.3	16.3	16.1	16.3	0	16.8
		36	39	14.9	14.7	14.9	0	15.3	16.2	16.1	16.2	0	16.8
		75	0	14.8	14.7	14.9	0	15.3	16.2	16.1	16.2	0	16.8
		1	0	14.5	14.5	14.5	0	15.3	16.0	16.0	16.0	0	16.8
	64QAM	1	37	14.4	14.5	14.5	0	15.3	15.9	15.9	15.9	0	16.8
		1	74	14.4	14.4	14.4	0	15.3	15.9	16.0	15.9	0	16.8
		36	0	14.5	14.4	14.4	0	15.3	16.0	16.0	15.9	0	16.8
		36	20	14.4	14.5	14.4	0	15.3	15.9	16.0	16.0	0	16.8
		36	39	14.5	14.5	14.4	0	15.3	15.9	15.9	15.9	0	16.8
	256QAM	75	0	14.4	14.4	14.4	0	15.3	15.9	16.0	16.0	0	16.8
		1	0	14.5	14.4	14.4	0	15.3	15.8	15.8	15.9	0	16.8
		1	37	14.4	14.4	14.4	0	15.3	15.9	15.8	15.9	0	16.8
		1	74	14.4	14.3	14.4	0	15.3	15.9	15.8	15.8	0	16.8
		36	0	14.4	14.3	14.3	0	15.3	15.8	15.8	15.9	0	16.8
15 MHz	256QAM	36	20	14.4	14.5	14.4	0	15.3	15.8	15.8	15.8	0	16.8
		36	39	14.5	14.5	14.3	0	15.3	15.8	15.8	15.9	0	16.8
		75	0	14.3	14.4	14.3	0	15.3	15.8	15.8	16.0	0	16.8

LTE Band 7 Measured Results (ANT2) (continued)

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	14.5	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	25	14.5	14.5	14.5	0	15.3	15.9	15.9	15.9	0	16.8
		1	49	14.4	14.5	14.5	0	15.3	15.9	16.0	16.0	0	16.8
		25	0	14.5	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	12	14.4	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	25	14.5	14.4	14.4	0	15.3	16.0	16.0	16.0	0	16.8
	16QAM	50	0	14.4	14.5	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	0	14.4	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	25	14.5	14.5	14.4	0	15.3	15.9	16.0	15.9	0	16.8
		1	49	14.4	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	0	14.4	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	12	14.5	14.4	14.4	0	15.3	15.9	15.9	16.0	0	16.8
	64QAM	25	25	14.5	14.5	14.4	0	15.3	15.9	16.0	15.9	0	16.8
		50	0	14.4	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	0	14.5	14.4	14.5	0	15.3	15.9	15.9	16.0	0	16.8
		1	25	14.5	14.4	14.4	0	15.3	15.9	16.0	15.9	0	16.8
		1	49	14.5	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	0	14.4	14.4	14.4	0	15.3	15.9	15.9	16.0	0	16.8
	256QAM	25	12	14.4	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	25	14.4	14.5	14.4	0	15.3	16.0	16.0	16.0	0	16.8
		50	0	14.4	14.4	14.4	0	15.3	15.9	16.0	16.0	0	16.8
		1	0	14.4	14.4	14.4	0	15.3	15.8	15.8	15.9	0	16.8
		1	25	14.4	14.3	14.3	0	15.3	15.9	15.9	15.9	0	16.8
		1	49	14.4	14.3	14.4	0	15.3	16.0	15.9	15.8	0	16.8
5 MHz	QPSK	25	0	14.4	14.3	14.4	0	15.3	15.8	15.9	16.0	0	16.8
		25	12	14.3	14.3	14.4	0	15.3	15.8	15.8	15.8	0	16.8
		25	25	14.4	14.4	14.4	0	15.3	15.9	15.8	15.8	0	16.8
		50	0	14.4	14.4	14.4	0	15.3	15.9	15.8	16.0	0	16.8
	16QAM	1	0	14.4	14.4	14.4	0	15.3	16.0	16.0	15.9	0	16.8
		1	12	14.4	14.5	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		1	24	14.4	14.5	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		12	0	14.4	14.5	14.4	0	15.3	16.0	16.0	15.9	0	16.8
		12	7	14.4	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		12	13	14.5	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
	64QAM	25	0	14.5	14.4	14.5	0	15.3	15.9	15.9	15.9	0	16.8
		1	0	14.5	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		1	12	14.5	14.4	14.4	0	15.3	16.0	16.0	15.9	0	16.8
		1	24	14.4	14.4	14.4	0	15.3	15.9	15.9	15.9	0	16.8
		12	0	14.4	14.5	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		12	7	14.4	14.4	14.4	0	15.3	16.0	15.9	16.0	0	16.8
	256QAM	12	13	14.5	14.4	14.4	0	15.3	16.0	15.9	15.9	0	16.8
		25	0	14.5	14.4	14.4	0	15.3	15.9	15.9	16.0	0	16.8
		1	0	14.3	14.4	14.4	0	15.3	15.8	15.8	15.9	0	16.8
		1	12	14.4	14.3	14.4	0	15.3	15.9	15.8	16.0	0	16.8
		1	24	14.3	14.3	14.4	0	15.3	16.0	15.8	15.9	0	16.8
		12	0	14.3	14.5	14.4	0	15.3	15.8	15.8	15.9	0	16.8
	256QAM	12	7	14.3	14.3	14.4	0	15.3	15.9	15.8	15.8	0	16.8
		12	13	14.5	14.4	14.4	0	15.3	15.9	15.8	15.8	0	16.8
		25	0	14.4	14.4	14.4	0	15.3	15.8	15.8	15.9	0	16.8

LTE Band 12 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23095 707.5 MHz			MPR	Tune-up Limit	23095 707.5 MHz			MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.7			0	25.7	24.7			0	25.7
		1	25	24.8			0	25.7	24.8			0	25.7
		1	49	24.7			0	25.7	24.7			0	25.7
		25	0	23.8			1	24.7	23.8			1	24.7
		25	12	23.8			1	24.7	23.8			1	24.7
		25	25	23.8			1	24.7	23.8			1	24.7
	16QAM	50	0	23.8			1	24.7	23.8			1	24.7
		1	0	23.8			1	24.7	23.8			1	24.7
		1	25	23.7			1	24.7	23.7			1	24.7
		1	49	23.8			1	24.7	23.8			1	24.7
		25	0	22.8			2	23.7	22.8			2	23.7
		25	12	22.9			2	23.7	22.9			2	23.7
	64QAM	25	25	22.8			2	23.7	22.8			2	23.7
		50	0	22.8			2	23.7	22.8			2	23.7
		1	0	23.1			2	23.7	23.1			2	23.7
		1	25	23.1			2	23.7	23.1			2	23.7
		1	49	23.1			2	23.7	23.1			2	23.7
		25	0	21.8			3	22.7	21.8			3	22.7
	256QAM	25	12	21.9			3	22.7	21.9			3	22.7
		25	25	21.8			3	22.7	21.8			3	22.7
		50	0	21.8			3	22.7	21.8			3	22.7
		1	0	19.9			5	20.7	19.9			5	20.7
		1	25	19.9			5	20.7	19.9			5	20.7
		1	49	19.9			5	20.7	19.9			5	20.7
		25	0	20.2			5	20.7	20.2			5	20.7
		25	12	20.3			5	20.7	20.3			5	20.7
		25	25	20.2			5	20.7	20.2			5	20.7
		50	0	20.2			5	20.7	20.2			5	20.7
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23035 701.5 MHz	23095 707.5 MHz	23155 713.5 MHz	MPR	Tune-up Limit	23035 701.5 MHz	23095 707.5 MHz	23155 713.5 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	24.9	24.9	24.8	0	25.7	24.9	24.9	24.8	0	25.7
		1	12	24.8	24.8	24.8	0	25.7	24.8	24.8	24.8	0	25.7
		1	24	24.8	24.8	24.8	0	25.7	24.8	24.8	24.8	0	25.7
		12	0	23.9	23.8	23.9	1	24.7	23.9	23.8	23.9	1	24.7
		12	7	23.9	23.8	23.8	1	24.7	23.9	23.8	23.8	1	24.7
		12	13	23.8	23.8	23.9	1	24.7	23.8	23.8	23.9	1	24.7
	16QAM	25	0	23.9	23.8	23.8	1	24.7	23.9	23.8	23.8	1	24.7
		1	0	24.1	24.0	24.4	1	24.7	24.1	24.0	24.4	1	24.7
		1	12	23.9	23.9	24.4	1	24.7	23.9	23.9	24.4	1	24.7
		1	24	24.0	23.9	24.4	1	24.7	24.0	23.9	24.4	1	24.7
		12	0	22.9	22.8	23.0	2	23.7	22.9	22.8	23.0	2	23.7
		12	7	23.0	22.9	23.0	2	23.7	23.0	22.9	23.0	2	23.7
	64QAM	12	13	22.9	22.8	23.0	2	23.7	22.9	22.8	23.0	2	23.7
		25	0	22.9	22.8	22.9	2	23.7	22.9	22.8	22.9	2	23.7
		1	0	23.0	22.7	23.2	2	23.7	23.0	22.7	23.2	2	23.7
		1	12	23.0	22.7	23.2	2	23.7	23.0	22.7	23.2	2	23.7
		1	24	23.0	22.6	23.2	2	23.7	23.0	22.6	23.2	2	23.7
		12	0	21.8	21.8	21.7	3	22.7	21.8	21.8	21.7	3	22.7
	256QAM	12	7	21.9	21.8	21.8	3	22.7	21.9	21.8	21.8	3	22.7
		12	13	21.8	21.7	21.7	3	22.7	21.8	21.7	21.7	3	22.7
		25	0	21.8	21.7	21.7	3	22.7	21.8	21.7	21.7	3	22.7
		1	0	20.3	20.0	20.4	5	20.7	20.3	20.0	20.4	5	20.7
		1	12	20.3	20.0	20.3	5	20.7	20.3	20.0	20.3	5	20.7
		1	24	20.2	19.9	20.4	5	20.7	20.2	19.9	20.4	5	20.7
		12	0	20.2	20.2	20.2	5	20.7	20.2	20.2	20.2	5	20.7
		12	7	20.3	20.2	20.3	5	20.7	20.3	20.2	20.3	5	20.7
		12	13	20.2	20.2	20.3	5	20.7	20.2	20.2	20.3	5	20.7
		25	0	20.2	20.3	20.2	5	20.7	20.2	20.3	20.2	5	20.7

LTE Band 12 Measured Results (ANT1) (continued)

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	24.8	24.8	24.9	0	25.7	24.8	24.8	24.9	0	25.7
		1	8	24.8	24.8	24.9	0	25.7	24.8	24.8	24.9	0	25.7
		1	14	24.8	24.7	24.9	0	25.7	24.8	24.7	24.9	0	25.7
		8	0	23.9	23.8	23.8	1	24.7	23.9	23.8	23.8	1	24.7
		8	4	23.9	23.8	23.8	1	24.7	23.9	23.8	23.8	1	24.7
		8	7	23.9	23.8	23.9	1	24.7	23.9	23.8	23.9	1	24.7
	16QAM	15	0	23.9	23.8	23.8	1	24.7	23.9	23.8	23.8	1	24.7
		1	0	23.9	23.9	24.3	1	24.7	23.9	23.9	24.3	1	24.7
		1	8	23.9	23.7	24.2	1	24.7	23.9	23.7	24.2	1	24.7
		1	14	23.8	23.7	24.3	1	24.7	23.8	23.7	24.3	1	24.7
		8	0	22.9	22.9	22.9	2	23.7	22.9	22.9	22.9	2	23.7
		8	4	23.0	23.0	22.9	2	23.7	23.0	23.0	22.9	2	23.7
	64QAM	8	7	22.9	22.9	23.0	2	23.7	22.9	22.9	23.0	2	23.7
		15	0	22.9	22.9	22.9	2	23.7	22.9	22.9	22.9	2	23.7
		1	0	23.2	23.1	22.8	2	23.7	23.2	23.1	22.8	2	23.7
		1	8	23.2	23.3	22.8	2	23.7	23.2	23.3	22.8	2	23.7
		1	14	23.1	23.1	22.8	2	23.7	23.1	23.1	22.8	2	23.7
		8	0	21.7	21.8	21.7	3	22.7	21.7	21.8	21.7	3	22.7
1.4 MHz	QPSK	8	4	21.7	21.9	21.8	3	22.7	21.7	21.9	21.8	3	22.7
		8	7	21.7	21.8	21.8	3	22.7	21.7	21.8	21.8	3	22.7
		15	0	21.8	21.8	21.8	3	22.7	21.8	21.8	21.8	3	22.7
	16QAM	1	0	20.2	20.6	20.1	5	20.7	20.2	20.6	20.1	5	20.7
		1	8	20.2	20.6	20.0	5	20.7	20.2	20.6	20.0	5	20.7
		1	14	20.2	20.6	20.0	5	20.7	20.2	20.6	20.0	5	20.7
	64QAM	8	0	20.3	20.2	20.2	5	20.7	20.3	20.2	20.2	5	20.7
		8	4	20.3	20.3	20.2	5	20.7	20.3	20.3	20.2	5	20.7
		8	7	20.3	20.3	20.3	5	20.7	20.3	20.3	20.3	5	20.7
	256QAM	15	0	20.3	20.3	20.2	5	20.7	20.3	20.3	20.2	5	20.7
		1	0	24.7	24.7	24.8	0	25.7	24.7	24.7	24.8	0	25.7
	QPSK	1	3	24.7	24.7	24.8	0	25.7	24.7	24.7	24.8	0	25.7
		1	5	24.7	24.7	24.7	0	25.7	24.7	24.7	24.7	0	25.7
		3	0	24.7	24.6	24.8	0	25.7	24.7	24.6	24.8	0	25.7
		3	1	24.7	24.7	24.8	0	25.7	24.7	24.7	24.8	0	25.7
	16QAM	3	3	24.7	24.7	24.8	0	25.7	24.7	24.7	24.8	0	25.7
		6	0	23.8	23.7	23.8	1	24.7	23.8	23.7	23.8	1	24.7
	64QAM	1	0	23.7	23.8	24.2	1	24.7	23.7	23.8	24.2	1	24.7
		1	3	23.8	23.9	24.2	1	24.7	23.8	23.9	24.2	1	24.7
		1	5	23.7	23.8	24.1	1	24.7	23.7	23.8	24.1	1	24.7
		3	0	24.0	23.8	24.0	1	24.7	24.0	23.8	24.0	1	24.7
	256QAM	3	1	24.0	23.8	24.0	1	24.7	24.0	23.8	24.0	1	24.7
		3	3	24.0	23.8	24.0	1	24.7	24.0	23.8	24.0	1	24.7
		6	0	23.0	22.9	22.7	2	23.7	23.0	22.9	22.7	2	23.7
	64QAM	1	0	23.1	22.7	22.9	2	23.7	23.1	22.7	22.9	2	23.7
		1	3	23.2	22.8	23.1	2	23.7	23.2	22.8	23.1	2	23.7
		1	5	23.0	22.7	23.0	2	23.7	23.0	22.7	23.0	2	23.7
		3	0	23.1	22.8	22.6	2	23.7	23.1	22.8	22.6	2	23.7
		3	1	23.0	22.8	22.6	2	23.7	23.0	22.8	22.6	2	23.7
		3	3	23.0	22.8	22.6	2	23.7	23.0	22.8	22.6	2	23.7
	256QAM	6	0	21.6	21.9	21.7	3	22.7	21.6	21.9	21.7	3	22.7
		1	0	20.1	20.2	20.3	5	20.7	20.1	20.2	20.3	5	20.7
		1	3	20.2	20.4	20.3	5	20.7	20.2	20.4	20.3	5	20.7
		1	5	20.1	20.2	20.2	5	20.7	20.1	20.2	20.2	5	20.7
		3	0	20.3	20.1	20.3	5	20.7	20.3	20.1	20.3	5	20.7
		3	1	20.2	20.1	20.2	5	20.7	20.2	20.1	20.2	5	20.7
		3	3	20.1	20.1	20.2	5	20.7	20.1	20.1	20.2	5	20.7
		6	0	20.2	20.1	20.3	5	20.7	20.2	20.1	20.3	5	20.7

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		23.2		0	24.2		23.2		0	24.2
		1	25		23.3		0	24.2		23.3		0	24.2
		1	49		23.2		0	24.2		23.2		0	24.2
		25	0		22.3		1	23.2		22.3		1	23.2
		25	12		22.4		1	23.2		22.4		1	23.2
		25	25		22.3		1	23.2		22.3		1	23.2
	16QAM	50	0		22.4		1	23.2		22.4		1	23.2
		1	0		22.4		1	23.2		22.4		1	23.2
		1	25		22.3		1	23.2		22.3		1	23.2
		1	49		22.2		1	23.2		22.2		1	23.2
		25	0		21.4		2	22.2		21.4		2	22.2
		25	12		21.4		2	22.2		21.4		2	22.2
	64QAM	25	25		21.3		2	22.2		21.3		2	22.2
		50	0		21.3		2	22.2		21.3		2	22.2
		1	0		21.1		2	22.2		21.1		2	22.2
		1	25		21.2		2	22.2		21.2		2	22.2
		1	49		21.1		2	22.2		21.1		2	22.2
		25	0		20.1		3	21.2		20.1		3	21.2
	256QAM	25	12		20.1		3	21.2		20.1		3	21.2
		25	25		20.1		3	21.2		20.1		3	21.2
		50	0		20.1		3	21.2		20.1		3	21.2
		1	0		18.8		5	19.2		18.8		5	19.2
		1	25		18.8		5	19.2		18.8		5	19.2
		1	49		18.9		5	19.2		18.9		5	19.2
5 MHz	QPSK	25	0		19.2		5	19.2		19.2		5	19.2
		25	12		19.2		5	19.2		19.2		5	19.2
		25	25		19.2		5	19.2		19.2		5	19.2
		50	0		19.1		5	19.2		19.1		5	19.2
	16QAM	1	0	23.5	23.4	23.2	0	24.2	23.5	23.4	23.2	0	24.2
		1	12	23.3	23.3	23.3	0	24.2	23.3	23.3	23.3	0	24.2
		1	24	23.4	23.3	23.2	0	24.2	23.4	23.3	23.2	0	24.2
		12	0	22.4	22.3	22.3	1	23.2	22.4	22.3	22.3	1	23.2
		12	7	22.4	22.3	22.4	1	23.2	22.4	22.3	22.4	1	23.2
		12	13	22.4	22.3	22.3	1	23.2	22.4	22.3	22.3	1	23.2
	64QAM	25	0	22.4	22.4	22.3	1	23.2	22.4	22.4	22.3	1	23.2
		1	0	22.5	22.6	22.8	1	23.2	22.5	22.6	22.8	1	23.2
		1	12	22.4	22.4	22.8	1	23.2	22.4	22.4	22.8	1	23.2
		1	24	22.5	22.5	22.8	1	23.2	22.5	22.5	22.8	1	23.2
		12	0	21.4	21.4	21.4	2	22.2	21.4	21.4	21.4	2	22.2
		12	7	21.5	21.4	21.5	2	22.2	21.5	21.4	21.5	2	22.2
	256QAM	12	13	21.4	21.4	21.4	2	22.2	21.4	21.4	21.4	2	22.2
		25	0	21.3	21.4	21.4	2	22.2	21.3	21.4	21.4	2	22.2
		1	0	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	12	21.1	21.2	21.1	2	22.2	21.1	21.2	21.1	2	22.2
		1	24	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		12	0	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
64QAM	12	7	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2	
	12	13	20.2	20.1	20.1	3	21.2	20.2	20.1	20.1	3	21.2	
	25	0	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2	
	1	0	18.8	18.8	18.8	5	19.2	18.8	18.8	18.8	5	19.2	
	1	12	18.7	18.7	18.8	5	19.2	18.7	18.7	18.8	5	19.2	
	1	24	18.8	18.9	18.9	5	19.2	18.8	18.9	18.9	5	19.2	
256QAM	12	0	19.1	19.2	19.1	5	19.2	19.1	19.2	19.1	5	19.2	
	12	7	19.1	19.1	19.2	5	19.2	19.1	19.1	19.2	5	19.2	
	12	13	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2	
	25	0	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2	

LTE Band 12 Measured Results (ANT2) (continued)

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	23.4	23.3	23.4	0	24.2	23.4	23.3	23.4	0	24.2
		1	8	23.4	23.3	23.2	0	24.2	23.4	23.3	23.2	0	24.2
		1	14	23.2	23.3	23.3	0	24.2	23.2	23.3	23.3	0	24.2
		8	0	22.3	22.3	22.2	1	23.2	22.3	22.3	22.2	1	23.2
		8	4	22.4	22.4	22.3	1	23.2	22.4	22.4	22.3	1	23.2
		8	7	22.4	22.3	22.3	1	23.2	22.4	22.3	22.3	1	23.2
	16QAM	15	0	22.4	22.3	22.3	1	23.2	22.4	22.3	22.3	1	23.2
		1	0	22.4	22.4	22.7	1	23.2	22.4	22.4	22.7	1	23.2
		1	8	22.4	22.2	22.6	1	23.2	22.4	22.2	22.6	1	23.2
		1	14	22.3	22.2	22.7	1	23.2	22.3	22.2	22.7	1	23.2
		8	0	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		8	4	21.4	21.5	21.4	2	22.2	21.4	21.5	21.4	2	22.2
	64QAM	8	7	21.4	21.5	21.4	2	22.2	21.4	21.5	21.4	2	22.2
		15	0	21.4	21.4	21.4	2	22.2	21.4	21.4	21.4	2	22.2
		1	0	21.2	21.1	21.2	2	22.2	21.2	21.1	21.2	2	22.2
		1	8	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	14	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		8	0	20.2	20.1	20.1	3	21.2	20.2	20.1	20.1	3	21.2
1.4 MHz	256QAM	8	4	20.1	20.2	20.1	3	21.2	20.1	20.2	20.1	3	21.2
		8	7	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2
		15	0	20.2	20.1	20.1	3	21.2	20.2	20.1	20.1	3	21.2
		1	0	18.8	18.8	18.8	5	19.2	18.8	18.8	18.8	5	19.2
		1	8	18.7	18.7	18.7	5	19.2	18.7	18.7	18.7	5	19.2
		1	14	18.8	18.8	18.8	5	19.2	18.8	18.8	18.8	5	19.2
	QPSK	8	0	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2
		8	4	19.1	19.2	19.2	5	19.2	19.1	19.2	19.2	5	19.2
		8	7	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2
		15	0	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2
		1	0	23.2	23.2	23.2	0	24.2	23.2	23.2	23.2	0	24.2
		1	3	23.2	23.2	23.1	0	24.2	23.2	23.2	23.1	0	24.2
	16QAM	1	5	23.2	23.2	23.1	0	24.2	23.2	23.2	23.1	0	24.2
		3	0	23.2	23.1	23.2	0	24.2	23.2	23.1	23.2	0	24.2
		3	1	23.2	23.2	23.2	0	24.2	23.2	23.2	23.2	0	24.2
		3	3	23.2	23.1	23.2	0	24.2	23.2	23.1	23.2	0	24.2
		6	0	22.3	22.2	22.2	1	23.2	22.3	22.2	22.2	1	23.2
		1	0	22.3	22.3	22.7	1	23.2	22.3	22.3	22.7	1	23.2
	64QAM	1	3	22.4	22.4	22.7	1	23.2	22.4	22.4	22.7	1	23.2
		1	5	22.3	22.3	22.7	1	23.2	22.3	22.3	22.7	1	23.2
		3	0	22.5	22.3	22.4	1	23.2	22.5	22.3	22.4	1	23.2
		3	1	22.5	22.3	22.4	1	23.2	22.5	22.3	22.4	1	23.2
		3	3	22.5	22.3	22.4	1	23.2	22.5	22.3	22.4	1	23.2
		6	0	21.4	21.4	21.1	2	22.2	21.4	21.4	21.1	2	22.2
	256QAM	1	0	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	3	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	5	21.2	21.1	21.2	2	22.2	21.2	21.1	21.2	2	22.2
		3	0	21.1	21.2	21.1	2	22.2	21.1	21.2	21.1	2	22.2
		3	1	21.2	21.1	21.1	2	22.2	21.2	21.1	21.1	2	22.2
		3	3	21.2	21.2	21.2	2	22.2	21.2	21.2	21.2	2	22.2
	QPSK	6	0	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2
		1	0	18.8	18.8	18.8	5	19.2	18.8	18.8	18.8	5	19.2
		1	3	18.8	18.8	18.7	5	19.2	18.8	18.8	18.7	5	19.2
		1	5	18.8	18.8	18.8	5	19.2	18.8	18.8	18.8	5	19.2
		3	0	19.2	19.1	19.1	5	19.2	19.2	19.1	19.1	5	19.2
		3	1	19.2	19.2	19.1	5	19.2	19.2	19.2	19.1	5	19.2
		3	3	19.1	19.2	19.1	5	19.2	19.1	19.2	19.1	5	19.2
		6	0	19.1	19.1	19.1	5	19.2	19.1	19.1	19.1	5	19.2

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	24.8	0	25.7		24.8	0	25.7	
		1	25	24.9	0	25.7		24.9	0	25.7	
		1	49	24.8	0	25.7		24.8	0	25.7	
		25	0	23.9	1	24.7		23.9	1	24.7	
		25	12	24.0	1	24.7		24.0	1	24.7	
		25	25	23.9	1	24.7		23.9	1	24.7	
	16QAM	50	0	24.0	1	24.7		24.0	1	24.7	
		1	0	23.9	1	24.7		23.9	1	24.7	
		1	25	23.8	1	24.7		23.8	1	24.7	
		1	49	23.8	1	24.7		23.8	1	24.7	
		25	0	23.0	2	23.7		23.0	2	23.7	
		25	12	23.1	2	23.7		23.1	2	23.7	
	64QAM	25	25	23.1	2	23.7		23.1	2	23.7	
		50	0	23.1	2	23.7		23.1	2	23.7	
		1	0	22.9	2	23.7		22.9	2	23.7	
		1	25	22.9	2	23.7		22.9	2	23.7	
		1	49	23.0	2	23.7		23.0	2	23.7	
		25	0	21.9	3	22.7		21.9	3	22.7	
	256QAM	25	12	21.9	3	22.7		21.9	3	22.7	
		25	25	22.0	3	22.7		22.0	3	22.7	
		50	0	21.9	3	22.7		21.9	3	22.7	
		1	0	20.1	5	20.7		20.1	5	20.7	
		1	25	20.3	5	20.7		20.3	5	20.7	
		1	49	20.3	5	20.7		20.3	5	20.7	
		25	0	20.3	5	20.7		20.3	5	20.7	
		25	12	20.4	5	20.7		20.4	5	20.7	
		25	25	20.4	5	20.7		20.4	5	20.7	
		50	0	20.3	5	20.7		20.3	5	20.7	
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	24.9	0	25.7		24.9	0	25.7	
		1	12	24.9	0	25.7		24.9	0	25.7	
		1	24	24.9	0	25.7		24.9	0	25.7	
		12	0	23.8	1	24.7		23.8	1	24.7	
		12	7	23.9	1	24.7		23.9	1	24.7	
		12	13	23.9	1	24.7		23.9	1	24.7	
	16QAM	25	0	24.0	1	24.7		24.0	1	24.7	
		1	0	24.1	1	24.7		24.1	1	24.7	
		1	12	24.0	1	24.7		24.0	1	24.7	
		1	24	24.0	1	24.7		24.0	1	24.7	
		12	0	23.0	2	23.7		23.0	2	23.7	
		12	7	23.0	2	23.7		23.0	2	23.7	
	64QAM	12	13	23.0	2	23.7		23.0	2	23.7	
		25	0	23.0	2	23.7		23.0	2	23.7	
		1	0	22.7	2	23.7		22.7	2	23.7	
		1	12	22.8	2	23.7		22.8	2	23.7	
		1	24	22.7	2	23.7		22.7	2	23.7	
		12	0	21.8	3	22.7		21.8	3	22.7	
	256QAM	12	7	21.9	3	22.7		21.9	3	22.7	
		12	13	21.9	3	22.7		21.9	3	22.7	
		25	0	21.8	3	22.7		21.8	3	22.7	
		1	0	20.4	5	20.7		20.4	5	20.7	
		1	12	20.4	5	20.7		20.4	5	20.7	
		1	24	20.5	5	20.7		20.5	5	20.7	
		12	0	20.3	5	20.7		20.3	5	20.7	
		12	7	20.4	5	20.7		20.4	5	20.7	
		12	13	20.3	5	20.7		20.3	5	20.7	
		25	0	20.3	5	20.7		20.3	5	20.7	

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	23.2		0	24.2	23.2		0	24.2
		1	25	23.3		0	24.2	23.3		0	24.2
		1	49	23.2		0	24.2	23.2		0	24.2
		25	0	22.3		1	23.2	22.3		1	23.2
		25	12	22.4		1	23.2	22.4		1	23.2
		25	25	22.4		1	23.2	22.4		1	23.2
	16QAM	50	0	22.4		1	23.2	22.4		1	23.2
		1	0	22.4		1	23.2	22.4		1	23.2
		1	25	22.3		1	23.2	22.3		1	23.2
		1	49	22.3		1	23.2	22.3		1	23.2
		25	0	21.4		2	22.2	21.4		2	22.2
		25	12	21.5		2	22.2	21.5		2	22.2
	64QAM	25	25	21.5		2	22.2	21.5		2	22.2
		50	0	21.5		2	22.2	21.5		2	22.2
		1	0	21.1		2	22.2	21.1		2	22.2
		1	25	21.2		2	22.2	21.2		2	22.2
		1	49	21.1		2	22.2	21.1		2	22.2
		25	0	20.2		3	21.2	20.2		3	21.2
	256QAM	25	12	20.1		3	21.2	20.1		3	21.2
		25	25	20.2		3	21.2	20.2		3	21.2
		50	0	20.2		3	21.2	20.2		3	21.2
		1	0	18.8		5	19.2	18.8		5	19.2
		1	25	18.8		5	19.2	18.8		5	19.2
		1	49	18.8		5	19.2	18.8		5	19.2
5 MHz	QPSK	25	0	19.1		5	19.2	19.1		5	19.2
		25	12	19.1		5	19.2	19.1		5	19.2
		25	25	19.1		5	19.2	19.1		5	19.2
		50	0	19.1		5	19.2	19.1		5	19.2
		1	0	23.3		0	24.2	23.3		0	24.2
		1	12	23.3		0	24.2	23.3		0	24.2
	16QAM	1	24	23.3		0	24.2	23.3		0	24.2
		12	0	22.3		1	23.2	22.3		1	23.2
		12	7	22.4		1	23.2	22.4		1	23.2
		12	13	22.3		1	23.2	22.3		1	23.2
		25	0	22.3		1	23.2	22.3		1	23.2
		1	0	22.4		1	23.2	22.4		1	23.2
	64QAM	1	12	22.4		1	23.2	22.4		1	23.2
		1	24	22.4		1	23.2	22.4		1	23.2
		12	0	21.4		2	22.2	21.4		2	22.2
		12	7	21.4		2	22.2	21.4		2	22.2
		12	13	21.4		2	22.2	21.4		2	22.2
		25	0	21.3		2	22.2	21.3		2	22.2
	256QAM	1	0	21.1		2	22.2	21.1		2	22.2
		1	12	21.2		2	22.2	21.2		2	22.2
		1	24	21.2		2	22.2	21.2		2	22.2
		12	0	20.2		3	21.2	20.2		3	21.2
		12	7	20.1		3	21.2	20.1		3	21.2
		12	13	20.2		3	21.2	20.2		3	21.2
5 MHz	256QAM	25	0	20.1		3	21.2	20.1		3	21.2
		1	0	18.8		5	19.2	18.8		5	19.2
		1	12	18.7		5	19.2	18.7		5	19.2
		1	24	18.8		5	19.2	18.8		5	19.2
		12	0	19.1		5	19.2	19.1		5	19.2
		12	7	19.2		5	19.2	19.2		5	19.2
	256QAM	12	13	19.1		5	19.2	19.1		5	19.2
		25	0	19.1		5	19.2	19.1		5	19.2
		1	0	23.3		0	24.2	23.3		0	24.2
		1	12	23.3		0	24.2	23.3		0	24.2
		1	24	23.3		0	24.2	23.3		0	24.2
		12	0	22.3		1	23.2	22.3		1	23.2
	256QAM	12	7	22.4		1	23.2	22.4		1	23.2
		12	13	22.3		1	23.2	22.3		1	23.2
		25	0	22.3		1	23.2	22.3		1	23.2
		1	0	22.4		1	23.2	22.4		1	23.2
		1	12	22.4		1	23.2	22.4		1	23.2
		1	24	22.4		1	23.2	22.4		1	23.2
	256QAM	12	0	21.4		2	22.2	21.4		2	22.2
		12	7	21.4		2	22.2	21.4		2	22.2
		12	13	21.4		2	22.2	21.4		2	22.2
		25	0	21.3		2	22.2	21.3		2	22.2
		1	0	21.1		2	22.2	21.1		2	22.2
		1	12	21.2		2	22.2	21.2		2	22.2
	256QAM	1	24	21.2		2	22.2	21.2		2	22.2
		12	0	20.2		3	21.2	20.2		3	21.2
		12	7	20.1		3	21.2	20.1		3	21.2
		12	13	20.2		3	21.2	20.2		3	21.2
		25	0	20.1		3	21.2	20.1		3	21.2
		1	0	18.8		5	19.2	18.8		5	19.2
	256QAM	1	12	18.7		5	19.2	18.7		5	19.2
		1	24	18.8		5	19.2	18.8		5	19.2
		12	0	19.1		5	19.2	19.1		5	19.2
		12	7	19.2		5	19.2	19.2		5	19.2
		12	13	19.1		5	19.2	19.1		5	19.2
		25	0	19.1		5	19.2	19.1		5	19.2

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	24.8		0	25.7	24.8		0	25.7
		1	25	24.9		0	25.7	24.9		0	25.7
		1	49	24.8		0	25.7	24.8		0	25.7
		25	0	23.9		1	24.7	23.9		1	24.7
		25	12	24.0		1	24.7	24.0		1	24.7
		25	25	23.9		1	24.7	23.9		1	24.7
	16QAM	50	0	23.9		1	24.7	23.9		1	24.7
		1	0	24.2		1	24.7	24.2		1	24.7
		1	25	24.2		1	24.7	24.2		1	24.7
		1	49	24.3		1	24.7	24.3		1	24.7
		25	0	22.9		2	23.7	22.9		2	23.7
		25	12	23.0		2	23.7	23.0		2	23.7
	64QAM	25	25	23.0		2	23.7	23.0		2	23.7
		50	0	22.9		2	23.7	22.9		2	23.7
		1	0	22.8		2	23.7	22.8		2	23.7
		1	25	22.9		2	23.7	22.9		2	23.7
		1	49	22.9		2	23.7	22.9		2	23.7
		25	0	21.8		3	22.7	21.8		3	22.7
	256QAM	25	12	21.9		3	22.7	21.9		3	22.7
		25	25	21.8		3	22.7	21.8		3	22.7
		50	0	21.8		3	22.7	21.8		3	22.7
		1	0	19.6		5	20.7	19.3		5	20.7
		1	25	19.7		5	20.7	19.4		5	20.7
		1	49	19.8		5	20.7	19.4		5	20.7
		25	0	19.9		5	20.7	19.4		5	20.7
		25	12	20.0		5	20.7	19.5		5	20.7
		25	25	19.9		5	20.7	19.5		5	20.7
		50	0	19.9		5	20.7	19.4		5	20.7
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	24.9		0	25.7	24.9		0	25.7
		1	12	24.8		0	25.7	24.8		0	25.7
		1	24	24.8		0	25.7	24.8		0	25.7
		12	0	23.8		1	24.7	23.8		1	24.7
		12	7	23.8		1	24.7	23.8		1	24.7
		12	13	23.8		1	24.7	23.8		1	24.7
	16QAM	25	0	23.8		1	24.7	23.8		1	24.7
		1	0	23.9		1	24.7	23.9		1	24.7
		1	12	23.8		1	24.7	23.8		1	24.7
		1	24	24.0		1	24.7	24.0		1	24.7
		12	0	22.9		2	23.7	22.9		2	23.7
		12	7	22.9		2	23.7	22.9		2	23.7
	64QAM	12	13	22.8		2	23.7	22.8		2	23.7
		25	0	22.8		2	23.7	22.8		2	23.7
		1	0	23.0		2	23.7	23.0		2	23.7
		1	12	23.0		2	23.7	23.0		2	23.7
		1	24	23.0		2	23.7	23.0		2	23.7
		12	0	21.8		3	22.7	21.8		3	22.7
	256QAM	12	7	21.8		3	22.7	21.8		3	22.7
		12	13	21.8		3	22.7	21.8		3	22.7
		25	0	21.8		3	22.7	21.8		3	22.7
		1	0	19.6		5	20.7	19.0		5	20.7
		1	12	19.8		5	20.7	19.1		5	20.7
		1	24	19.7		5	20.7	19.1		5	20.7
		12	0	19.9		5	20.7	19.3		5	20.7
		12	7	20.0		5	20.7	19.5		5	20.7
		12	13	19.9		5	20.7	19.4		5	20.7
		25	0	20.0		5	20.7	19.4		5	20.7

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	23.2		0	24.2	23.2		0	24.2
		1	25	23.3		0	24.2	23.3		0	24.2
		1	49	23.3		0	24.2	23.3		0	24.2
		25	0	23.2		1	23.2	23.2		1	23.2
		25	12	22.3		1	23.2	22.3		1	23.2
		25	25	22.3		1	23.2	22.3		1	23.2
	16QAM	50	0	22.3		1	23.2	22.3		1	23.2
		1	0	22.3		1	23.2	22.3		1	23.2
		1	25	22.3		1	23.2	22.3		1	23.2
		1	49	22.3		1	23.2	22.3		1	23.2
		25	0	21.4		2	22.2	21.4		2	22.2
		25	12	21.5		2	22.2	21.5		2	22.2
	64QAM	25	25	21.4		2	22.2	21.4		2	22.2
		50	0	21.4		2	22.2	21.4		2	22.2
		1	0	21.1		2	22.2	21.1		2	22.2
		1	25	21.2		2	22.2	21.2		2	22.2
		1	49	21.1		2	22.2	21.1		2	22.2
		25	0	20.2		3	21.2	20.2		3	21.2
	256QAM	25	12	20.1		3	21.2	20.1		3	21.2
		25	25	20.1		3	21.2	20.1		3	21.2
		50	0	20.1		3	21.2	20.1		3	21.2
		1	0	18.7		5	19.2	18.7		5	19.2
		1	25	18.7		5	19.2	18.7		5	19.2
		1	49	18.8		5	19.2	18.8		5	19.2
		25	0	19.0		5	19.2	19.0		5	19.2
		25	12	19.1		5	19.2	19.1		5	19.2
		25	25	19.0		5	19.2	19.0		5	19.2
		50	0	19.0		5	19.2	19.0		5	19.2
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	23.4		0	24.2	23.4		0	24.2
		1	12	23.3		0	24.2	23.3		0	24.2
		1	24	23.3		0	24.2	23.3		0	24.2
		12	0	22.3		1	23.2	22.3		1	23.2
		12	7	22.3		1	23.2	22.3		1	23.2
		12	13	22.3		1	23.2	22.3		1	23.2
	16QAM	25	0	22.3		1	23.2	22.3		1	23.2
		1	0	22.5		1	23.2	22.5		1	23.2
		1	12	22.4		1	23.2	22.4		1	23.2
		1	24	22.5		1	23.2	22.5		1	23.2
		12	0	21.4		2	22.2	21.4		2	22.2
		12	7	21.4		2	22.2	21.4		2	22.2
	64QAM	12	13	21.4		2	22.2	21.4		2	22.2
		25	0	21.3		2	22.2	21.3		2	22.2
		1	0	21.2		2	22.2	21.2		2	22.2
		1	12	21.1		2	22.2	21.1		2	22.2
		1	24	21.1		2	22.2	21.1		2	22.2
		12	0	20.2		3	21.2	20.2		3	21.2
	256QAM	12	7	20.1		3	21.2	20.1		3	21.2
		12	13	20.1		3	21.2	20.1		3	21.2
		25	0	20.2		3	21.2	20.2		3	21.2
		1	0	18.7		5	19.2	18.7		5	19.2
		1	12	18.7		5	19.2	18.7		5	19.2
		1	24	18.8		5	19.2	18.8		5	19.2
		12	0	19.0		5	19.2	19.0		5	19.2
		12	7	19.1		5	19.2	19.1		5	19.2
		12	13	19.0		5	19.2	19.0		5	19.2
		25	0	19.0		5	19.2	19.0		5	19.2

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	22.4	22.3	22.3	0	23.1	17.6	17.5	17.5	0	18.6
		1	49	22.5	22.4	22.4	0	23.1	17.7	17.6	17.6	0	18.6
		1	99	22.4	22.3	22.3	0	23.1	17.6	17.5	17.5	0	18.6
		50	0	22.5	22.5	22.4	0	23.1	17.6	17.7	17.6	0	18.6
		50	24	22.6	22.6	22.5	0	23.1	17.7	17.8	17.7	0	18.6
		50	50	22.6	22.5	22.4	0	23.1	17.6	17.7	17.6	0	18.6
	16QAM	100	0	22.4	22.5	22.4	0	23.1	17.6	17.8	17.6	0	18.6
		1	0	22.6	22.7	22.5	0	23.1	17.8	17.9	17.7	0	18.6
		1	49	22.6	22.6	22.5	0	23.1	17.8	17.9	17.7	0	18.6
		1	99	22.6	22.6	22.7	0	23.1	17.8	17.9	17.7	0	18.6
		50	0	22.2	22.2	22.2	0	23.1	17.6	17.6	17.5	0	18.6
		50	24	22.3	22.2	22.3	0	23.1	17.7	17.5	17.6	0	18.6
	64QAM	50	50	22.3	22.2	22.2	0	23.1	17.7	17.5	17.6	0	18.6
		100	0	22.3	22.2	22.2	0	23.1	17.7	17.5	17.5	0	18.6
		1	0	22.6	22.1	22.4	0	23.1	17.3	17.3	17.8	0	18.6
		1	49	22.7	22.0	22.3	0	23.1	17.4	17.3	17.7	0	18.6
		1	99	22.7	22.1	22.4	0	23.1	17.5	17.5	17.8	0	18.6
		50	0	21.9	21.8	22.0	0.4	22.7	17.5	17.4	17.4	0	18.6
	256QAM	50	24	22.0	21.8	22.0	0.4	22.7	17.5	17.4	17.5	0	18.6
		50	50	22.0	21.8	22.0	0.4	22.7	17.6	17.4	17.4	0	18.6
		100	0	21.9	21.8	22.0	0.4	22.7	17.5	17.4	17.4	0	18.6
		1	0	19.7	19.9	20.1	2.4	20.7	17.6	17.6	18.0	0	18.6
		1	49	19.8	20.0	20.1	2.4	20.7	17.5	17.6	18.0	0	18.6
		1	99	19.9	20.0	20.2	2.4	20.7	17.5	17.6	18.0	0	18.6
15 MHz	QPSK	50	0	19.9	19.9	19.9	2.4	20.7	17.6	17.6	18.0	0	18.6
		50	24	20.0	19.9	20.1	2.4	20.7	17.6	17.6	18.0	0	18.6
		50	50	20.0	19.9	20.1	2.4	20.7	17.6	17.6	18.0	0	18.6
		100	0	19.9	19.8	20.0	2.4	20.7	17.6	17.6	18.0	0	18.6
	16QAM	1	0	22.4	22.4	22.4	0	23.1	17.9	17.8	18.0	0	18.6
		1	37	22.5	22.3	22.3	0	23.1	17.9	17.8	17.9	0	18.6
		1	74	22.5	22.3	22.3	0	23.1	17.9	17.8	17.9	0	18.6
		36	0	22.5	22.4	22.5	0	23.1	18.1	17.9	18.0	0	18.6
		36	20	22.5	22.4	22.5	0	23.1	18.1	17.9	18.0	0	18.6
		36	39	22.5	22.4	22.4	0	23.1	18.0	17.9	18.0	0	18.6
	64QAM	75	0	22.5	22.4	22.5	0	23.1	18.1	17.9	18.0	0	18.6
		1	0	22.8	22.8	22.4	0	23.1	17.9	18.3	18.3	0	18.6
		1	37	22.9	22.8	22.3	0	23.1	17.9	18.3	18.3	0	18.6
		1	74	22.9	22.8	22.4	0	23.1	17.9	18.2	18.3	0	18.6
		36	0	22.6	22.4	22.5	0	23.1	18.1	18.0	18.0	0	18.6
		36	20	22.6	22.4	22.5	0	23.1	18.1	18.0	18.0	0	18.6
	256QAM	36	39	22.6	22.4	22.4	0	23.1	18.1	17.9	17.9	0	18.6
		75	0	22.6	22.4	22.5	0	23.1	18.1	17.9	18.0	0	18.6
		1	0	22.2	22.7	22.6	0	23.1	17.8	17.6	18.1	0	18.6
		1	37	22.4	22.7	22.5	0	23.1	17.9	17.6	18.1	0	18.6
		1	74	22.4	22.8	22.6	0	23.1	17.9	17.7	18.2	0	18.6
		36	0	22.0	21.8	21.9	0.4	22.7	17.7	17.6	17.5	0	18.6
15 MHz	64QAM	36	20	22.0	21.8	21.9	0.4	22.7	17.7	17.6	17.5	0	18.6
		36	39	22.1	21.8	21.9	0.4	22.7	17.7	17.6	17.6	0	18.6
		75	0	22.0	21.8	21.8	0.4	22.7	17.7	17.6	17.6	0	18.6
	256QAM	1	0	20.0	20.2	19.7	2.4	20.7	17.8	17.6	18.1	0	18.6
		1	37	20.1	20.2	19.7	2.4	20.7	17.8	17.6	18.2	0	18.6
		1	74	20.2	20.3	19.9	2.4	20.7	17.8	17.6	18.1	0	18.6
	256QAM	36	0	19.9	19.9	20.0	2.4	20.7	17.8	17.6	18.1	0	18.6
		36	20	19.9	19.9	20.0	2.4	20.7	17.8	17.6	18.1	0	18.6
		36	39	19.9	19.9	20.0	2.4	20.7	17.8	17.6	18.1	0	18.6
		75	0	19.9	19.9	20.0	2.4	20.7	17.8	17.6	18.1	0	18.6

LTE Band 25 Measured Results (ANT1) (continued)

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	22.5	22.3	22.4	0	23.1	17.7	17.7	17.6	0	18.6
		1	25	22.4	22.3	22.4	0	23.1	17.6	17.7	17.7	0	18.6
		1	49	22.5	22.3	22.5	0	23.1	17.8	17.8	17.8	0	18.6
		25	0	22.6	22.4	22.4	0	23.1	17.7	17.8	17.7	0	18.6
		25	12	22.6	22.4	22.5	0	23.1	17.8	17.9	17.9	0	18.6
		25	25	22.6	22.5	22.5	0	23.1	17.9	17.9	17.9	0	18.6
	16QAM	50	0	22.6	22.4	22.5	0	23.1	17.8	17.9	17.9	0	18.6
		1	0	22.5	22.3	22.8	0	23.1	17.7	17.7	17.8	0	18.6
		1	25	22.4	22.3	22.7	0	23.1	17.8	17.7	17.8	0	18.6
		1	49	22.5	22.3	22.9	0	23.1	17.8	17.8	17.9	0	18.6
		25	0	22.6	22.4	22.5	0	23.1	17.8	17.9	17.8	0	18.6
		25	12	22.7	22.5	22.5	0	23.1	17.9	17.9	17.9	0	18.6
	64QAM	25	25	22.7	22.5	22.6	0	23.1	18.0	17.9	17.9	0	18.6
		50	0	22.6	22.4	22.5	0	23.1	17.9	17.8	17.9	0	18.6
		1	0	22.5	22.2	22.5	0	23.1	17.9	18.0	18.0	0	18.6
		1	25	22.6	22.2	22.4	0	23.1	17.9	18.1	18.1	0	18.6
		1	49	22.7	22.4	22.6	0	23.1	18.1	18.2	18.2	0	18.6
		25	0	21.9	21.9	22.0	0.4	22.7	17.8	17.9	17.8	0	18.6
	256QAM	25	12	22.0	22.0	22.1	0.4	22.7	17.9	17.9	17.9	0	18.6
		25	25	22.1	22.0	22.1	0.4	22.7	18.0	17.9	17.9	0	18.6
		50	0	22.0	21.9	22.0	0.4	22.7	17.9	17.9	17.9	0	18.6
		1	0	19.9	20.3	19.8	2.4	20.7	17.9	18.0	18.1	0	18.6
		1	25	20.0	20.4	19.9	2.4	20.7	17.9	18.0	18.1	0	18.6
		1	49	20.0	20.5	19.9	2.4	20.7	17.9	18.0	18.1	0	18.6
5 MHz	QPSK	25	0	20.0	20.0	20.1	2.4	20.7	17.9	18.0	18.1	0	18.6
		25	12	20.1	20.0	20.2	2.4	20.7	17.9	18.0	18.1	0	18.6
		25	25	20.1	20.1	20.2	2.4	20.7	17.9	18.0	18.1	0	18.6
		50	0	20.0	20.0	20.2	2.4	20.7	17.9	18.0	18.1	0	18.6
	16QAM	1	0	22.7	22.5	22.9	0	23.1	17.8	17.9	17.9	0	18.6
		1	12	22.6	22.6	23.0	0	23.1	17.7	17.9	17.9	0	18.6
		1	24	22.7	22.6	23.0	0	23.1	17.9	18.0	18.1	0	18.6
		12	0	22.6	22.4	22.6	0	23.1	17.8	17.8	17.8	0	18.6
		12	7	22.6	22.5	22.6	0	23.1	17.9	18.0	17.9	0	18.6
		12	13	22.7	22.5	22.7	0	23.1	17.9	17.9	18.0	0	18.6
	64QAM	25	0	22.5	22.4	22.6	0	23.1	17.8	17.9	17.8	0	18.6
		1	0	22.5	22.4	22.2	0	23.1	17.9	18.1	17.7	0	18.6
		1	12	22.7	22.4	22.4	0	23.1	18.0	18.1	17.9	0	18.6
		1	24	22.7	22.5	22.5	0	23.1	18.1	18.1	17.9	0	18.6
		12	0	21.8	21.9	21.9	0.4	22.7	17.8	17.9	17.8	0	18.6
		12	7	21.9	21.9	22.0	0.4	22.7	17.9	17.9	17.9	0	18.6
	256QAM	12	13	21.9	22.0	22.1	0.4	22.7	17.9	18.0	18.0	0	18.6
		25	0	21.9	21.8	21.9	0.4	22.7	17.8	17.9	17.8	0	18.6
		1	0	19.9	19.7	20.2	2.4	20.7	17.9	18.0	17.7	0	18.6
		1	12	20.0	19.7	20.3	2.4	20.7	17.9	18.0	17.7	0	18.6
		1	24	20.0	19.7	20.3	2.4	20.7	17.9	18.0	17.7	0	18.6
		12	0	19.9	19.9	20.1	2.4	20.7	17.9	18.0	17.7	0	18.6
	256QAM	12	7	20.0	20.0	20.1	2.4	20.7	17.9	18.0	17.7	0	18.6
		12	13	20.0	20.0	20.3	2.4	20.7	17.9	18.0	17.7	0	18.6
		25	0	20.0	20.0	20.1	2.4	20.7	17.9	18.0	17.7	0	18.6

LTE Band 25 Measured Results (ANT1) (continued)

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	22.4	22.2	22.4	0	23.1	17.6	17.7	17.6	0	18.6
		1	8	22.4	22.4	22.5	0	23.1	17.6	17.8	17.6	0	18.6
		1	14	22.5	22.4	22.5	0	23.1	17.7	17.9	17.9	0	18.6
		8	0	22.5	22.3	22.5	0	23.1	17.7	17.8	17.8	0	18.6
		8	4	22.6	22.4	22.5	0	23.1	17.8	17.8	17.8	0	18.6
		8	7	22.6	22.4	22.6	0	23.1	17.8	17.9	17.9	0	18.6
	16QAM	15	0	22.6	22.4	22.5	0	23.1	17.7	17.9	17.8	0	18.6
		1	0	22.6	22.2	22.8	0	23.1	17.7	17.6	17.6	0	18.6
		1	8	22.5	22.2	22.8	0	23.1	17.7	17.6	17.6	0	18.6
		1	14	22.6	22.4	22.9	0	23.1	17.8	17.8	17.8	0	18.6
		8	0	22.5	22.4	22.5	0	23.1	17.7	17.9	17.8	0	18.6
		8	4	22.6	22.5	22.6	0	23.1	17.9	17.9	17.9	0	18.6
	64QAM	8	7	22.7	22.6	22.7	0	23.1	17.9	18.0	18.0	0	18.6
		15	0	22.5	22.4	22.6	0	23.1	17.7	17.8	17.9	0	18.6
		1	0	22.2	22.6	22.7	0	23.1	18.0	18.1	18.1	0	18.6
		1	8	22.3	22.6	22.9	0	23.1	17.9	18.2	18.1	0	18.6
		1	14	22.5	22.7	22.9	0	23.1	18.1	18.2	18.2	0	18.6
		8	0	21.9	21.7	22.0	0.4	22.7	17.7	17.7	17.8	0	18.6
1.4 MHz	QPSK	8	4	22.0	21.8	22.1	0.4	22.7	17.7	17.8	17.8	0	18.6
		8	7	22.0	21.9	22.1	0.4	22.7	17.8	17.9	17.9	0	18.6
		15	0	22.0	21.9	22.0	0.4	22.7	17.8	17.9	17.9	0	18.6
	16QAM	1	0	19.9	20.3	20.0	2.4	20.7	18.0	18.1	18.1	0	18.6
		1	8	20.0	20.4	20.0	2.4	20.7	18.0	18.1	18.1	0	18.6
		1	14	20.1	20.5	20.2	2.4	20.7	18.0	18.1	18.1	0	18.6
	64QAM	8	0	20.0	20.0	20.0	2.4	20.7	18.0	18.1	18.1	0	18.6
		8	4	20.1	20.1	20.2	2.4	20.7	18.0	18.1	18.1	0	18.6
		8	7	20.1	20.1	20.3	2.4	20.7	18.0	18.1	18.1	0	18.6
	256QAM	15	0	20.0	20.0	20.3	2.4	20.7	18.0	18.1	18.1	0	18.6
		1	0	22.4	22.2	22.3	0	23.1	17.6	17.8	17.7	0	18.6
		1	3	22.4	22.3	22.4	0	23.1	17.6	17.8	17.7	0	18.6
		1	5	22.4	22.3	22.4	0	23.1	17.7	17.9	17.7	0	18.6
		3	0	22.4	22.2	22.4	0	23.1	17.6	17.7	17.6	0	18.6
		3	1	22.4	22.3	22.4	0	23.1	17.7	17.8	17.7	0	18.6
	16QAM	3	3	22.4	22.3	22.4	0	23.1	17.7	17.8	17.7	0	18.6
		6	0	22.5	22.3	22.4	0	23.1	17.6	17.8	17.7	0	18.6
		1	0	22.4	22.3	22.7	0	23.1	17.7	17.9	17.8	0	18.6
		1	3	22.5	22.4	22.8	0	23.1	17.8	17.9	17.9	0	18.6
		1	5	22.5	22.4	22.8	0	23.1	17.8	18.0	17.9	0	18.6
		3	0	22.7	22.4	22.6	0	23.1	17.7	17.8	17.7	0	18.6
	64QAM	3	1	22.7	22.4	22.6	0	23.1	17.7	17.9	17.8	0	18.6
		3	3	22.7	22.4	22.6	0	23.1	17.8	17.9	17.9	0	18.6
		6	0	22.6	22.4	22.3	0	23.1	17.8	18.0	17.9	0	18.6
		1	0	22.6	22.3	22.6	0	23.1	17.8	17.9	17.8	0	18.6
		1	3	22.7	22.4	22.7	0	23.1	17.9	18.0	17.9	0	18.6
		1	5	22.7	22.3	22.7	0	23.1	17.9	18.0	17.9	0	18.6
	256QAM	3	0	22.4	22.3	22.4	0.4	22.7	17.6	17.9	17.9	0	18.6
		3	1	22.5	22.3	22.5	0.4	22.7	17.7	17.9	17.9	0	18.6
		3	3	22.5	22.4	22.5	0.4	22.7	17.7	18.0	17.9	0	18.6
		6	0	21.8	22.1	22.1	0.4	22.7	17.7	18.1	18.1	0	18.6
		1	0	20.0	19.9	20.2	2.4	20.7	17.8	17.9	17.8	0	18.6
		1	3	20.2	20.1	20.3	2.4	20.7	17.8	17.9	17.8	0	18.6
	256QAM	1	5	20.1	20.0	20.3	2.4	20.7	17.8	17.8	17.8	0	18.6
		3	0	19.8	19.8	20.1	2.4	20.7	17.8	17.9	17.8	0	18.6
		3	1	19.9	19.8	20.1	2.4	20.7	17.8	17.9	17.8	0	18.6
		3	3	19.8	19.8	20.1	2.4	20.7	17.8	17.8	17.8	0	18.6
		6	0	19.8	19.8	20.0	2.4	20.7	17.8	17.9	17.8	0	18.6

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	17.3	17.2	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		1	49	17.4	17.3	17.3	0	18.2	18.7	18.6	18.6	0	19.1
		1	99	17.3	17.2	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		50	0	17.4	17.3	17.2	0	18.2	18.8	18.6	18.6	0	19.1
		50	24	17.5	17.4	17.3	0	18.2	18.9	18.7	18.7	0	19.1
	16QAM	50	50	17.4	17.3	17.3	0	18.2	18.8	18.6	18.7	0	19.1
		100	0	17.4	17.4	17.3	0	18.2	18.8	18.8	18.7	0	19.1
		1	0	17.8	17.8	17.7	0	18.2	18.9	18.9	18.9	0	19.1
		1	49	17.8	17.8	17.7	0	18.2	18.9	18.9	18.9	0	19.1
		1	99	17.7	17.8	17.7	0	18.2	18.9	18.9	18.9	0	19.1
	64QAM	50	0	17.4	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
		50	24	17.5	17.3	17.4	0	18.2	18.8	18.6	18.7	0	19.1
		50	50	17.5	17.4	17.4	0	18.2	18.7	18.7	18.7	0	19.1
		100	0	17.5	17.3	17.3	0	18.2	18.8	18.6	18.7	0	19.1
		1	0	17.2	17.2	17.3	0	18.2	18.5	18.6	18.5	0	19.1
	256QAM	1	49	17.3	17.2	17.3	0	18.2	18.6	18.6	18.5	0	19.1
		1	99	17.2	17.2	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		50	0	17.2	17.3	17.2	0	18.2	18.5	18.5	18.6	0	19.1
		50	24	17.2	17.3	17.2	0	18.2	18.5	18.6	18.5	0	19.1
		50	50	17.3	17.2	17.3	0	18.2	18.6	18.5	18.5	0	19.1
15 MHz	QPSK	100	0	17.3	17.2	17.2	0	18.2	18.5	18.6	18.5	0	19.1
		1	0	17.1	17.1	17.2	0	18.2	18.5	18.5	18.4	0	19.1
		1	49	17.2	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		1	99	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
		50	0	17.2	17.2	17.1	0	18.2	18.4	18.5	18.5	0	19.1
	16QAM	50	24	17.1	17.2	17.1	0	18.2	18.4	18.5	18.4	0	19.1
		50	50	17.2	17.1	17.3	0	18.2	18.6	18.4	18.4	0	19.1
		100	0	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
	64QAM	1	0	17.4	17.2	17.4	0	18.2	18.7	18.5	18.6	0	19.1
		1	37	17.4	17.2	17.4	0	18.2	18.7	18.5	18.6	0	19.1
		1	74	17.4	17.1	17.3	0	18.2	18.7	18.4	18.6	0	19.1
		36	0	17.5	17.3	17.3	0	18.2	18.8	18.6	18.6	0	19.1
		36	20	17.5	17.3	17.3	0	18.2	18.8	18.6	18.6	0	19.1
	256QAM	36	39	17.4	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
		75	0	17.4	17.2	17.3	0	18.2	18.8	18.6	18.6	0	19.1
	16QAM	1	0	17.9	17.2	17.8	0	18.2	18.9	18.5	18.9	0	19.1
		1	37	17.9	17.2	17.8	0	18.2	18.9	18.5	18.9	0	19.1
		1	74	17.8	17.2	17.7	0	18.2	18.9	18.4	18.9	0	19.1
		36	0	17.5	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
		36	20	17.5	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
	64QAM	36	39	17.4	17.3	17.4	0	18.2	18.7	18.6	18.7	0	19.1
		75	0	17.5	17.2	17.3	0	18.2	18.8	18.5	18.6	0	19.1
		1	0	17.3	17.2	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		1	37	17.2	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		1	74	17.3	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
	256QAM	36	0	17.3	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		36	20	17.2	17.3	17.2	0	18.2	18.5	18.6	18.5	0	19.1
		36	39	17.2	17.3	17.2	0	18.2	18.5	18.6	18.5	0	19.1
		75	0	17.3	17.3	17.3	0	18.2	18.5	18.5	18.5	0	19.1
		1	0	17.1	17.1	17.2	0	18.2	18.5	18.5	18.5	0	19.1
	256QAM	1	37	17.2	17.2	17.2	0	18.2	18.5	18.6	18.4	0	19.1
		1	74	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
		36	0	17.1	17.2	17.1	0	18.2	18.5	18.5	18.5	0	19.1
		36	20	17.1	17.2	17.1	0	18.2	18.4	18.5	18.4	0	19.1
		36	39	17.2	17.1	17.2	0	18.2	18.5	18.4	18.5	0	19.1
	256QAM	75	0	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1

LTE Band 25 Measured Results (ANT2) (continued)

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	17.4	17.2	17.4	0	18.2	18.8	18.5	18.7	0	19.1
		1	25	17.4	17.3	17.4	0	18.2	18.7	18.6	18.7	0	19.1
		1	49	17.4	17.3	17.5	0	18.2	18.8	18.6	18.7	0	19.1
		25	0	17.5	17.3	17.4	0	18.2	18.9	18.6	18.7	0	19.1
		25	12	17.5	17.4	17.5	0	18.2	18.9	18.6	18.7	0	19.1
		25	25	17.6	17.4	17.5	0	18.2	18.9	18.7	18.8	0	19.1
	16QAM	50	0	17.6	17.4	17.5	0	18.2	18.9	18.6	18.7	0	19.1
		1	0	17.5	17.4	17.8	0	18.2	18.7	18.6	18.9	0	19.1
		1	25	17.5	17.4	17.8	0	18.2	18.7	18.6	18.9	0	19.1
		1	49	17.5	17.4	17.8	0	18.2	18.8	18.6	18.9	0	19.1
		25	0	17.7	17.4	17.5	0	18.2	18.9	18.6	18.7	0	19.1
		25	12	17.7	17.4	17.5	0	18.2	18.9	18.7	18.7	0	19.1
	64QAM	25	25	17.7	17.5	17.6	0	18.2	18.9	18.7	18.8	0	19.1
		50	0	17.6	17.4	17.5	0	18.2	18.9	18.6	18.7	0	19.1
		1	0	17.3	17.2	17.2	0	18.2	18.6	18.6	18.5	0	19.1
		1	25	17.2	17.2	17.3	0	18.2	18.6	18.6	18.5	0	19.1
		1	49	17.3	17.2	17.2	0	18.2	18.6	18.6	18.6	0	19.1
		25	0	17.3	17.3	17.2	0	18.2	18.5	18.6	18.5	0	19.1
	256QAM	25	12	17.2	17.3	17.3	0	18.2	18.5	18.6	18.5	0	19.1
		25	25	17.2	17.2	17.2	0	18.2	18.5	18.5	18.6	0	19.1
		50	0	17.3	17.2	17.3	0	18.2	18.6	18.6	18.5	0	19.1
		1	0	17.1	17.2	17.2	0	18.2	18.4	18.5	18.5	0	19.1
		1	25	17.2	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		1	49	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
5 MHz	QPSK	25	0	17.2	17.2	17.2	0	18.2	18.4	18.5	18.5	0	19.1
		25	12	17.2	17.2	17.2	0	18.2	18.4	18.5	18.5	0	19.1
		25	25	17.2	17.1	17.1	0	18.2	18.4	18.5	18.4	0	19.1
		50	0	17.2	17.1	17.2	0	18.2	18.5	18.4	18.4	0	19.1
		1	0	17.5	17.4	17.4	0	18.2	18.8	18.7	18.7	0	19.1
		1	12	17.5	17.5	17.5	0	18.2	18.9	18.8	18.8	0	19.1
	16QAM	1	24	17.5	17.4	17.4	0	18.2	18.9	18.8	18.7	0	19.1
		12	0	17.5	17.3	17.4	0	18.2	18.9	18.6	18.7	0	19.1
		12	7	17.6	17.4	17.5	0	18.2	18.9	18.6	18.8	0	19.1
		12	13	17.6	17.5	17.5	0	18.2	18.9	18.7	18.8	0	19.1
		25	0	17.5	17.3	17.5	0	18.2	18.9	18.6	18.7	0	19.1
		1	0	17.6	17.5	18.0	0	18.2	18.9	18.8	18.9	0	19.1
	64QAM	1	12	17.7	17.5	18.0	0	18.2	18.9	18.9	18.9	0	19.1
		1	24	17.7	17.6	18.0	0	18.2	18.9	18.9	18.9	0	19.1
		12	0	17.6	17.4	17.6	0	18.2	18.9	18.6	18.9	0	19.1
		12	7	17.6	17.4	17.6	0	18.2	18.9	18.7	18.9	0	19.1
		12	13	17.7	17.5	17.7	0	18.2	18.9	18.8	18.9	0	19.1
		25	0	17.5	17.4	17.6	0	18.2	18.8	18.7	18.8	0	19.1
	256QAM	1	0	17.2	17.3	17.2	0	18.2	18.6	18.6	18.5	0	19.1
		1	12	17.3	17.2	17.3	0	18.2	18.6	18.6	18.5	0	19.1
		1	24	17.2	17.2	17.3	0	18.2	18.6	18.5	18.6	0	19.1
		12	0	17.3	17.3	17.3	0	18.2	18.6	18.5	18.5	0	19.1
		12	7	17.2	17.2	17.3	0	18.2	18.5	18.6	18.6	0	19.1
		12	13	17.2	17.3	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		25	0	17.2	17.2	17.3	0	18.2	18.5	18.5	18.6	0	19.1
		1	0	17.1	17.2	17.3	0	18.2	18.4	18.5	18.4	0	19.1
		1	12	17.2	17.2	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		1	24	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
		12	0	17.2	17.2	17.2	0	18.2	18.4	18.5	18.5	0	19.1
		12	7	17.1	17.2	17.1	0	18.2	18.4	18.5	18.4	0	19.1
		12	13	17.2	17.1	17.2	0	18.2	18.6	18.5	18.4	0	19.1
		25	0	17.2	17.1	17.2	0	18.2	18.5	18.6	18.4	0	19.1
		1	0	17.4	17.3	17.4	0	18.2	18.8	18.7	18.7	0	19.1
		1	12	17.4	17.3	17.4	0	18.2	18.7	18.6	18.7	0	19.1

LTE Band 25 Measured Results (ANT2) (continued)

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	17.3	17.3	17.3	0	18.2	18.8	18.6	18.6	0	19.1
		1	8	17.3	17.4	17.5	0	18.2	18.9	18.7	18.8	0	19.1
		1	14	17.5	17.4	17.5	0	18.2	18.9	18.7	18.8	0	19.1
		8	0	17.4	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
		8	4	17.5	17.4	17.4	0	18.2	18.9	18.7	18.7	0	19.1
		8	7	17.6	17.5	17.4	0	18.2	18.9	18.8	18.7	0	19.1
	16QAM	15	0	17.5	17.4	17.4	0	18.2	18.9	18.6	18.7	0	19.1
		1	0	17.5	17.3	17.7	0	18.2	18.8	18.6	18.9	0	19.1
		1	8	17.5	17.2	17.8	0	18.2	18.9	18.6	18.9	0	19.1
		1	14	17.6	17.4	17.9	0	18.2	18.9	18.7	18.9	0	19.1
		8	0	17.5	17.4	17.4	0	18.2	18.9	18.7	18.7	0	19.1
		8	4	17.6	17.5	17.5	0	18.2	18.9	18.8	18.8	0	19.1
	64QAM	8	7	17.6	17.6	17.6	0	18.2	18.9	18.9	18.9	0	19.1
		15	0	17.5	17.4	17.5	0	18.2	18.9	18.7	18.7	0	19.1
		1	0	17.2	17.2	17.2	0	18.2	18.5	18.5	18.6	0	19.1
		1	8	17.3	17.2	17.2	0	18.2	18.5	18.5	18.6	0	19.1
		1	14	17.3	17.3	17.2	0	18.2	18.5	18.5	18.5	0	19.1
		8	0	17.3	17.2	17.2	0	18.2	18.5	18.5	18.6	0	19.1
	256QAM	8	4	17.2	17.2	17.2	0	18.2	18.6	18.5	18.6	0	19.1
		8	7	17.2	17.2	17.3	0	18.2	18.5	18.6	18.6	0	19.1
		15	0	17.2	17.2	17.3	0	18.2	18.5	18.5	18.5	0	19.1
		1	0	17.1	17.1	17.3	0	18.2	18.4	18.5	18.4	0	19.1
		1	8	17.2	17.2	17.2	0	18.2	18.6	18.6	18.5	0	19.1
		1	14	17.2	17.1	17.1	0	18.2	18.5	18.5	18.4	0	19.1
1.4 MHz	QPSK	8	0	17.2	17.2	17.1	0	18.2	18.4	18.5	18.5	0	19.1
		8	4	17.1	17.2	17.1	0	18.2	18.4	18.6	18.4	0	19.1
		8	7	17.2	17.1	17.3	0	18.2	18.5	18.5	18.4	0	19.1
		15	0	17.2	17.2	17.1	0	18.2	18.5	18.5	18.4	0	19.1
	16QAM	1	0	17.3	17.3	17.3	0	18.2	18.7	18.6	18.6	0	19.1
		1	3	17.3	17.3	17.3	0	18.2	18.8	18.6	18.6	0	19.1
		1	5	17.4	17.3	17.4	0	18.2	18.8	18.6	18.6	0	19.1
		3	0	17.3	17.2	17.3	0	18.2	18.7	18.6	18.6	0	19.1
		3	1	17.4	17.3	17.4	0	18.2	18.7	18.7	18.6	0	19.1
		3	3	17.4	17.3	17.4	0	18.2	18.7	18.7	18.6	0	19.1
	64QAM	6	0	17.4	17.3	17.4	0	18.2	18.8	18.7	18.7	0	19.1
		1	0	17.4	17.4	17.8	0	18.2	18.8	18.9	18.6	0	19.1
		1	3	17.5	17.5	17.9	0	18.2	18.9	18.9	18.8	0	19.1
		1	5	17.5	17.5	17.9	0	18.2	18.9	18.9	18.7	0	19.1
		3	0	17.6	17.4	17.6	0	18.2	18.8	18.8	18.9	0	19.1
		3	1	17.7	17.4	17.6	0	18.2	18.8	18.8	18.9	0	19.1
	256QAM	3	3	17.7	17.5	17.7	0	18.2	18.9	18.9	18.9	0	19.1
		6	0	17.6	17.5	17.3	0	18.2	18.9	18.6	18.9	0	19.1
		1	0	17.2	17.3	17.2	0	18.2	18.5	18.5	18.6	0	19.1
		1	3	17.2	17.3	17.3	0	18.2	18.6	18.5	18.5	0	19.1
		1	5	17.2	17.2	17.3	0	18.2	18.6	18.5	18.5	0	19.1
		3	0	17.2	17.3	17.2	0	18.2	18.5	18.5	18.5	0	19.1
	64QAM	3	1	17.2	17.2	17.2	0	18.2	18.6	18.5	18.5	0	19.1
		3	3	17.2	17.3	17.2	0	18.2	18.6	18.6	18.5	0	19.1
		6	0	17.2	17.2	17.2	0	18.2	18.5	18.6	18.5	0	19.1
	256QAM	1	0	17.1	17.2	17.3	0	18.2	18.4	18.5	18.4	0	19.1
		1	3	17.2	17.2	17.2	0	18.2	18.5	18.6	18.5	0	19.1
		1	5	17.2	17.1	17.2	0	18.2	18.5	18.5	18.4	0	19.1
		3	0	17.1	17.2	17.1	0	18.2	18.4	18.5	18.5	0	19.1
		3	1	17.1	17.2	17.1	0	18.2	18.4	18.5	18.4	0	19.1
		3	3	17.2	17.1	17.3	0	18.2	18.5	18.5	18.4	0	19.1
	256QAM	6	0	17.2	17.2	17.1	0	18.2	18.5	18.6	18.4	0	19.1

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	24.7	24.6	24.6	0	25.7	23.5	23.3	23.4	0	24.4
		1	25	24.8	24.7	24.7	0	25.7	23.6	23.4	23.5	0	24.4
		1	49	24.7	24.6	24.6	0	25.7	23.4	23.3	23.3	0	24.4
		25	0	23.8	23.7	23.7	1	24.7	23.5	23.4	23.4	0	24.4
		25	12	23.9	23.8	23.8	1	24.7	23.6	23.5	23.5	0	24.4
	16QAM	25	25	23.8	23.7	23.7	1	24.7	23.5	23.4	23.4	0	24.4
		50	0	23.8	23.8	23.7	1	24.7	23.5	23.5	23.4	0	24.4
		1	0	23.9	23.8	24.2	1	24.7	23.8	23.5	23.8	0	24.4
		1	25	23.8	23.6	24.1	1	24.7	23.6	23.3	23.9	0	24.4
		1	49	23.7	23.7	24.1	1	24.7	23.6	23.4	23.7	0	24.4
	64QAM	25	0	22.9	22.7	22.7	2	23.7	22.9	22.7	22.8	0.7	23.7
		25	12	23.0	22.8	22.9	2	23.7	23.0	22.8	22.9	0.7	23.7
		25	25	22.9	22.7	22.8	2	23.7	22.9	22.7	22.8	0.7	23.7
		50	0	22.9	22.7	22.7	2	23.7	22.9	22.7	22.8	0.7	23.7
		1	0	22.6	22.5	22.4	2	23.7	23.0	23.1	22.9	0.7	23.7
	256QAM	1	25	22.5	22.5	22.4	2	23.7	23.1	22.9	23.0	0.7	23.7
		1	49	22.6	22.4	22.5	2	23.7	23.1	23.1	23.0	0.7	23.7
		25	0	21.4	21.6	21.5	3	22.7	22.1	22.1	22.0	1.7	22.7
		25	12	21.5	21.6	21.6	3	22.7	22.1	22.0	21.9	1.7	22.7
		25	25	21.5	21.4	21.5	3	22.7	21.9	21.9	22.0	1.7	22.7
5 MHz	QPSK	50	0	21.5	21.6	21.4	3	22.7	22.0	21.9	21.9	1.7	22.7
		1	0	20.3	20.6	19.9	5	20.7	20.1	20.7	20.3	3.7	20.7
		1	25	20.3	20.6	20.1	5	20.7	20.1	20.7	20.4	3.7	20.7
		1	49	20.3	20.7	20.0	5	20.7	20.1	20.7	20.4	3.7	20.7
		25	0	20.4	20.3	20.4	5	20.7	20.3	20.3	20.4	3.7	20.7
	16QAM	25	12	20.5	20.3	20.3	5	20.7	20.4	20.3	20.4	3.7	20.7
		25	25	20.4	20.3	20.4	5	20.7	20.3	20.3	20.4	3.7	20.7
		50	0	20.4	20.3	20.3	5	20.7	20.3	20.3	20.4	3.7	20.7
		1	0	24.9	24.8	24.7	0	25.7	23.6	23.5	23.4	0	24.4
	64QAM	1	12	24.9	24.8	24.6	0	25.7	23.6	23.3	23.3	0	24.4
		1	24	24.8	24.7	24.7	0	25.7	23.5	23.4	23.4	0	24.4
		12	0	23.9	23.7	23.7	1	24.7	23.6	23.4	23.4	0	24.4
		12	7	23.9	23.7	23.8	1	24.7	23.7	23.4	23.5	0	24.4
		12	13	23.9	23.7	23.7	1	24.7	23.6	23.4	23.4	0	24.4
	256QAM	25	0	23.9	23.7	23.7	1	24.7	23.6	23.4	23.4	0	24.4
		1	0	24.1	23.9	24.3	1	24.7	23.9	23.6	24.0	0	24.4
		1	12	24.0	23.9	24.3	1	24.7	23.7	23.5	24.0	0	24.4
		1	24	24.0	23.9	24.2	1	24.7	23.7	23.6	23.9	0	24.4
		12	0	22.9	22.8	22.9	2	23.7	22.9	22.8	22.9	0.7	23.7
	16QAM	12	7	23.0	22.8	23.0	2	23.7	23.0	22.8	23.0	0.7	23.7
		12	13	22.9	22.7	22.9	2	23.7	22.9	22.7	22.9	0.7	23.7
		25	0	22.8	22.7	22.8	2	23.7	22.9	22.7	22.8	0.7	23.7
		1	0	22.6	22.5	22.5	2	23.7	23.0	23.0	22.9	0.7	23.7
		1	12	22.6	22.6	22.5	2	23.7	23.0	22.9	23.0	0.7	23.7
	64QAM	1	24	22.4	22.6	22.4	2	23.7	23.1	23.0	23.0	0.7	23.7
		12	0	21.6	21.6	21.5	3	22.7	22.1	22.0	22.1	1.7	22.7
		12	7	21.5	21.6	21.6	3	22.7	22.0	21.9	21.9	1.7	22.7
		12	13	21.5	21.4	21.6	3	22.7	22.0	22.1	22.0	1.7	22.7
		25	0	21.5	21.4	21.6	3	22.7	22.0	22.1	22.1	1.7	22.7
	256QAM	1	0	20.4	20.0	20.5	5	20.7	20.4	20.0	20.4	3.7	20.7
		1	12	20.5	20.0	20.5	5	20.7	20.5	20.0	20.4	3.7	20.7
		1	24	20.4	19.9	20.4	5	20.7	20.4	19.9	20.4	3.7	20.7
		12	0	20.3	20.2	20.3	5	20.7	20.3	20.1	20.4	3.7	20.7
		12	7	20.4	20.2	20.4	5	20.7	20.4	20.2	20.5	3.7	20.7
		12	13	20.3	20.2	20.3	5	20.7	20.3	20.2	20.4	3.7	20.7
		25	0	20.4	20.3	20.3	5	20.7	20.3	20.3	20.4	3.7	20.7

LTE Band 26 Measured Results (ANT1) (continued)

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	24.8	24.7	24.8	0	25.7	23.5	23.4	23.5	0	24.4
		1	8	24.7	24.7	24.7	0	25.7	23.4	23.4	23.4	0	24.4
		1	14	24.8	24.7	24.7	0	25.7	23.4	23.3	23.4	0	24.4
		8	0	23.9	23.7	23.8	1	24.7	23.6	23.4	23.5	0	24.4
		8	4	24.0	23.7	23.8	1	24.7	23.6	23.4	23.5	0	24.4
		8	7	23.9	23.7	23.7	1	24.7	23.6	23.4	23.4	0	24.4
	16QAM	15	0	23.9	23.7	23.7	1	24.7	23.6	23.4	23.4	0	24.4
		1	0	24.0	23.7	24.2	1	24.7	23.7	23.4	23.9	0	24.4
		1	8	23.9	23.6	24.0	1	24.7	23.6	23.3	23.8	0	24.4
		1	14	23.8	23.7	24.1	1	24.7	23.5	23.3	23.8	0	24.4
		8	0	22.9	22.8	22.8	2	23.7	22.9	22.9	22.8	0.7	23.7
		8	4	23.0	22.9	22.9	2	23.7	23.0	22.8	22.9	0.7	23.7
	64QAM	8	7	22.9	22.9	22.8	2	23.7	23.0	22.9	22.8	0.7	23.7
		15	0	22.9	22.7	22.8	2	23.7	22.9	22.8	22.8	0.7	23.7
		1	0	22.5	22.5	22.6	2	23.7	23.0	23.1	23.1	0.7	23.7
		1	8	22.5	22.6	22.5	2	23.7	23.0	23.0	23.0	0.7	23.7
		1	14	22.5	22.6	22.6	2	23.7	23.1	23.1	23.1	0.7	23.7
		8	0	21.6	21.6	21.6	3	22.7	21.9	22.1	22.0	1.7	22.7
	256QAM	8	4	21.5	21.5	21.6	3	22.7	22.1	22.0	22.0	1.7	22.7
		8	7	21.6	21.5	21.4	3	22.7	22.0	22.1	22.1	1.7	22.7
		15	0	21.5	21.5	21.5	3	22.7	22.0	22.0	22.0	1.7	22.7
		1	0	20.3	20.6	20.3	5	20.7	20.0	20.7	20.4	3.7	20.7
		1	8	20.4	20.6	20.7	5	20.7	20.1	20.6	20.5	3.7	20.7
		1	14	20.3	20.5	20.7	5	20.7	20.0	20.6	20.3	3.7	20.7
1.4 MHz	QPSK	8	0	20.5	20.3	20.4	5	20.7	20.2	20.3	20.5	3.7	20.7
		8	4	20.5	20.3	20.4	5	20.7	20.3	20.3	20.5	3.7	20.7
		8	7	20.5	20.3	20.4	5	20.7	20.3	20.3	20.6	3.7	20.7
		15	0	20.4	20.2	20.4	5	20.7	20.3	20.3	20.5	3.7	20.7
	16QAM	1	0	26.97	26.865	27.033	MPR	Tune-up Limit	26.97	26.865	27.033	MPR	Tune-up Limit
		1	8	814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
		1	0	24.8	24.7	24.6	0	25.7	23.5	23.3	23.3	0	24.4
		1	3	24.8	24.6	24.6	0	25.7	23.5	23.3	23.3	0	24.4
		1	5	24.7	24.6	24.5	0	25.7	23.5	23.3	23.2	0	24.4
		3	0	24.7	24.6	24.6	0	25.7	23.4	23.3	23.2	0	24.4
	64QAM	3	1	24.8	24.6	24.7	0	25.7	23.5	23.4	23.3	0	24.4
		3	3	24.7	24.6	24.7	0	25.7	23.5	23.3	23.3	0	24.4
		6	0	23.8	23.6	23.6	1	24.7	23.5	23.4	23.4	0	24.4
		1	0	23.8	23.8	24.0	1	24.7	23.6	23.7	23.3	0	24.4
		1	3	23.9	23.8	24.0	1	24.7	23.7	23.7	23.4	0	24.4
		1	5	23.8	23.7	23.9	1	24.7	23.6	23.6	23.3	0	24.4
	256QAM	3	0	24.0	23.7	23.9	1	24.7	23.6	23.6	23.6	0	24.4
		3	1	24.1	23.7	23.8	1	24.7	23.6	23.5	23.6	0	24.4
		3	3	24.1	23.7	23.9	1	24.7	23.6	23.5	23.6	0	24.4
		6	0	23.0	22.8	22.5	2	23.7	23.0	22.5	22.8	0.7	23.7
		1	0	22.5	22.4	22.5	2	23.7	23.1	23.1	23.1	0.7	23.7
		1	3	22.6	22.5	22.5	2	23.7	23.0	23.1	23.1	0.7	23.7
	16QAM	1	5	22.5	22.6	22.6	2	23.7	23.0	22.9	23.0	0.7	23.7
		3	0	22.6	22.5	22.4	2	23.7	23.0	23.1	23.1	0.7	23.7
		3	1	22.4	22.5	22.5	2	23.7	23.0	23.0	23.0	0.7	23.7
		3	3	22.6	22.5	22.4	2	23.7	23.1	23.1	23.1	0.7	23.7
		6	0	21.4	21.5	21.5	3	22.7	22.1	22.0	22.0	1.7	22.7
		1	0	20.2	20.2	20.4	5	20.7	20.3	20.2	20.3	3.7	20.7
	64QAM	1	3	20.4	20.4	20.5	5	20.7	20.5	20.4	20.4	3.7	20.7
		1	5	20.2	20.3	20.4	5	20.7	20.3	20.3	20.2	3.7	20.7
		3	0	20.4	20.1	20.2	5	20.7	20.2	20.1	20.4	3.7	20.7
		3	1	20.4	20.2	20.2	5	20.7	20.2	20.2	20.4	3.7	20.7
		3	3	20.3	20.1	20.2	5	20.7	20.1	20.1	20.3	3.7	20.7
		6	0	20.3	20.1	20.1	5	20.7	20.2	20.1	20.3	3.7	20.7

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	23.2	23.2	23.1	0	24.2	23.2	23.2	23.1	0	24.2
		1	25	23.3	23.3	23.2	0	24.2	23.3	23.3	23.2	0	24.2
		1	49	23.2	23.1	23.0	0	24.2	23.2	23.1	23.0	0	24.2
		25	0	22.2	22.2	22.1	1	23.2	22.2	22.2	22.1	1	23.2
		25	12	22.3	22.3	22.2	1	23.2	22.3	22.3	22.2	1	23.2
		25	25	22.2	22.2	22.1	1	23.2	22.2	22.2	22.1	1	23.2
	16QAM	50	0	22.3	22.3	22.2	1	23.2	22.3	22.3	22.2	1	23.2
		1	0	22.7	22.3	22.2	1	23.2	22.7	22.3	22.2	1	23.2
		1	25	22.6	22.3	22.1	1	23.2	22.6	22.3	22.1	1	23.2
		1	49	22.4	22.3	22.1	1	23.2	22.4	22.3	22.1	1	23.2
		25	0	21.3	21.3	21.2	2	22.2	21.3	21.3	21.2	2	22.2
		25	12	21.3	21.4	21.2	2	22.2	21.3	21.4	21.2	2	22.2
	64QAM	25	25	21.3	21.3	21.2	2	22.2	21.3	21.3	21.2	2	22.2
		50	0	21.3	21.3	21.1	2	22.2	21.3	21.3	21.1	2	22.2
		1	0	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
		1	25	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	49	21.1	21.2	21.1	2	22.2	21.1	21.2	21.1	2	22.2
		25	0	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
	256QAM	25	12	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2
		25	25	20.2	20.1	20.2	3	21.2	20.2	20.1	20.2	3	21.2
		50	0	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
		1	0	19.2	19.0	19.1	5	19.2	19.2	19.0	19.1	5	19.2
		1	25	19.2	19.2	19.1	5	19.2	19.2	19.2	19.1	5	19.2
		1	49	19.1	19.0	19.1	5	19.2	19.1	19.0	19.1	5	19.2
5 MHz	QPSK	25	0	18.1	18.2	18.2	5	19.2	18.1	18.2	18.2	5	19.2
		25	12	18.2	18.1	18.2	5	19.2	18.2	18.1	18.2	5	19.2
		25	25	18.2	18.1	18.3	5	19.2	18.2	18.1	18.3	5	19.2
		50	0	18.2	18.1	18.2	5	19.2	18.2	18.1	18.2	5	19.2
		1	0	23.3	23.3	23.1	0	24.2	23.3	23.3	23.1	0	24.2
		1	12	23.3	23.2	23.2	0	24.2	23.3	23.2	23.2	0	24.2
	16QAM	1	24	23.3	23.3	23.1	0	24.2	23.3	23.3	23.1	0	24.2
		12	0	22.3	22.2	22.1	1	23.2	22.3	22.2	22.1	1	23.2
		12	7	22.4	22.3	22.2	1	23.2	22.4	22.3	22.2	1	23.2
		12	13	22.3	22.2	22.1	1	23.2	22.3	22.2	22.1	1	23.2
		25	0	22.3	22.3	22.1	1	23.2	22.3	22.3	22.1	1	23.2
		1	0	22.4	22.4	22.7	1	23.2	22.4	22.4	22.7	1	23.2
	64QAM	1	12	22.4	22.4	22.7	1	23.2	22.4	22.4	22.7	1	23.2
		1	24	22.4	22.4	22.7	1	23.2	22.4	22.4	22.7	1	23.2
		12	0	21.4	21.3	21.3	2	22.2	21.4	21.3	21.3	2	22.2
		12	7	21.4	21.4	21.4	2	22.2	21.4	21.4	21.4	2	22.2
		12	13	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		25	0	21.3	21.3	21.2	2	22.2	21.3	21.3	21.2	2	22.2
	256QAM	1	0	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
		1	12	21.2	21.1	21.1	2	22.2	21.2	21.1	21.1	2	22.2
		1	24	21.2	21.1	21.2	2	22.2	21.2	21.1	21.2	2	22.2
		12	0	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
		12	7	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2
		12	13	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
	256QAM	25	0	20.1	20.1	20.2	3	21.2	20.1	20.1	20.2	3	21.2
		1	0	19.0	19.2	19.1	5	19.2	19.0	19.2	19.1	5	19.2
		1	12	19.0	19.2	19.2	5	19.2	19.0	19.2	19.2	5	19.2
		1	24	19.0	19.1	19.0	5	19.2	19.0	19.1	19.0	5	19.2
		12	0	18.1	18.1	18.2	5	19.2	18.1	18.1	18.2	5	19.2
		12	7	18.2	18.2	18.2	5	19.2	18.2	18.2	18.2	5	19.2
	256QAM	12	13	18.2	18.1	18.2	5	19.2	18.2	18.1	18.2	5	19.2
		25	0	18.1	18.2	18.2	5	19.2	18.1	18.2	18.2	5	19.2

LTE Band 26 Measured Results (ANT2) (continued)

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	23.3	23.2	23.2	0	24.2	23.3	23.2	23.2	0	24.2
		1	8	23.3	23.3	23.2	0	24.2	23.3	23.3	23.2	0	24.2
		1	14	23.2	23.2	23.1	0	24.2	23.2	23.2	23.1	0	24.2
		8	0	22.2	22.3	22.2	1	23.2	22.2	22.3	22.2	1	23.2
		8	4	22.3	22.3	22.2	1	23.2	22.3	22.3	22.2	1	23.2
		8	7	22.3	22.3	22.2	1	23.2	22.3	22.3	22.2	1	23.2
	16QAM	15	0	22.3	22.3	22.1	1	23.2	22.3	22.3	22.1	1	23.2
		1	0	22.3	22.3	22.6	1	23.2	22.3	22.3	22.6	1	23.2
		1	8	22.4	22.2	22.5	1	23.2	22.4	22.2	22.5	1	23.2
		1	14	22.2	22.2	22.6	1	23.2	22.2	22.2	22.6	1	23.2
		8	0	21.3	21.4	21.2	2	22.2	21.3	21.4	21.2	2	22.2
		8	4	21.4	21.4	21.3	2	22.2	21.4	21.4	21.3	2	22.2
	64QAM	8	7	21.4	21.4	21.3	2	22.2	21.4	21.4	21.3	2	22.2
		15	0	21.3	21.3	21.2	2	22.2	21.3	21.3	21.2	2	22.2
		1	0	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	8	21.1	21.2	21.2	2	22.2	21.1	21.2	21.2	2	22.2
		1	14	21.2	21.1	21.1	2	22.2	21.2	21.1	21.1	2	22.2
		8	0	20.2	20.1	20.2	3	21.2	20.2	20.1	20.2	3	21.2
1.4 MHz	256QAM	8	4	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
		8	7	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
		15	0	20.1	20.1	20.1	3	21.2	20.1	20.1	20.1	3	21.2
		1	0	19.1	19.2	19.1	5	19.2	19.1	19.2	19.1	5	19.2
		1	8	19.2	19.2	19.0	5	19.2	19.2	19.2	19.0	5	19.2
		1	14	19.0	19.1	19.2	5	19.2	19.0	19.1	19.2	5	19.2
	QPSK	8	0	18.2	18.2	18.2	5	19.2	18.2	18.2	18.2	5	19.2
		8	4	18.2	18.1	18.1	5	19.2	18.2	18.1	18.1	5	19.2
		8	7	18.2	18.2	18.2	5	19.2	18.2	18.2	18.2	5	19.2
		15	0	18.2	18.2	18.2	5	19.2	18.2	18.2	18.2	5	19.2
		1	0	23.1	23.2	23.0	0	24.2	23.1	23.2	23.0	0	24.2
		1	3	23.2	23.2	23.0	0	24.2	23.2	23.2	23.0	0	24.2
	16QAM	1	5	23.1	23.1	22.9	0	24.2	23.1	23.1	22.9	0	24.2
		3	0	23.1	23.1	23.0	0	24.2	23.1	23.1	23.0	0	24.2
		3	1	23.2	23.2	23.1	0	24.2	23.2	23.2	23.1	0	24.2
		3	3	23.1	23.1	23.0	0	24.2	23.1	23.1	23.0	0	24.2
		6	0	22.2	22.2	22.1	1	23.2	22.2	22.2	22.1	1	23.2
		1	0	22.2	22.3	22.4	1	23.2	22.2	22.3	22.4	1	23.2
	64QAM	1	3	22.3	22.3	22.4	1	23.2	22.3	22.3	22.4	1	23.2
		1	5	22.2	22.3	22.4	1	23.2	22.2	22.3	22.4	1	23.2
		3	0	22.5	22.3	22.3	1	23.2	22.5	22.3	22.3	1	23.2
		3	1	22.4	22.3	22.3	1	23.2	22.4	22.3	22.3	1	23.2
		3	3	22.5	22.3	22.3	1	23.2	22.5	22.3	22.3	1	23.2
		6	0	21.4	21.3	20.9	2	22.2	21.4	21.3	20.9	2	22.2
	256QAM	1	0	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
		1	3	21.1	21.1	21.1	2	22.2	21.1	21.1	21.1	2	22.2
		1	5	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
		3	0	21.2	21.1	21.1	2	22.2	21.2	21.1	21.1	2	22.2
		3	1	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
		3	3	21.1	21.1	21.2	2	22.2	21.1	21.1	21.2	2	22.2
	QPSK	6	0	20.2	20.1	20.2	3	21.2	20.2	20.1	20.2	3	21.2
		1	0	19.2	19.1	19.1	5	19.2	19.2	19.1	19.1	5	19.2
		1	3	19.2	19.2	19.0	5	19.2	19.2	19.2	19.0	5	19.2
		1	5	19.0	19.2	19.1	5	19.2	19.0	19.2	19.1	5	19.2
		3	0	19.0	19.1	19.1	5	19.2	19.0	19.1	19.1	5	19.2
		3	1	19.1	19.1	19.2	5	19.2	19.1	19.1	19.2	5	19.2
	16QAM	3	3	19.1	19.1	19.0	5	19.2	19.1	19.1	19.0	5	19.2
		6	0	18.2	18.2	18.2	5	19.2	18.2	18.2	18.2	5	19.2

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	23.3		0	24	18.7		0	19.3
		1	25	23.4		0	24	18.8		0	19.3
		1	49	23.3		0	24	18.7		0	19.3
		25	0	23.3		0	24	18.7		0	19.3
		25	12	23.5		0	24	18.8		0	19.3
		25	25	23.5		0	24	18.8		0	19.3
	16QAM	50	0	23.5		0	24	18.8		0	19.3
		1	0	23.4		0	24	18.5		0	19.3
		1	25	23.4		0	24	18.5		0	19.3
		1	49	23.4		0	24	18.6		0	19.3
		25	0	22.4		0.3	23.7	18.4		0	19.3
		25	12	22.5		0.3	23.7	18.5		0	19.3
	64QAM	25	25	22.5		0.3	23.7	18.5		0	19.3
		50	0	22.5		0.3	23.7	18.4		0	19.3
		1	0	22.9		0.3	23.7	18.4		0	19.3
		1	25	22.9		0.3	23.7	18.5		0	19.3
		1	49	22.8		0.3	23.7	18.5		0	19.3
		25	0	21.8		1.3	22.7	18.4		0	19.3
	256QAM	25	12	21.9		1.3	22.7	18.6		0	19.3
		25	25	21.9		1.3	22.7	18.6		0	19.3
		50	0	21.8		1.3	22.7	18.5		0	19.3
		1	0	19.4		3.3	20.7	18.4		0	19.3
		1	25	19.5		3.3	20.7	18.4		0	19.3
		1	49	19.5		3.3	20.7	18.4		0	19.3
		25	0	19.7		3.3	20.7	18.4		0	19.3
		25	12	19.8		3.3	20.7	18.4		0	19.3
		25	25	19.8		3.3	20.7	18.4		0	19.3
		50	0	19.7		3.3	20.7	18.4		0	19.3
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	23.5		0	24	18.7		0	19.3
		1	12	23.5		0	24	18.8		0	19.3
		1	24	23.4		0	24	18.7		0	19.3
		12	0	23.3		0	24	18.7		0	19.3
		12	7	23.4		0	24	18.8		0	19.3
		12	13	23.4		0	24	18.8		0	19.3
	16QAM	25	0	23.4		0	24	18.8		0	19.3
		1	0	23.6		0	24	18.5		0	19.3
		1	12	23.6		0	24	18.4		0	19.3
		1	24	23.6		0	24	18.4		0	19.3
		12	0	22.4		0.3	23.7	18.5		0	19.3
		12	7	22.5		0.3	23.7	18.6		0	19.3
	64QAM	12	13	22.5		0.3	23.7	18.6		0	19.3
		25	0	22.5		0.3	23.7	18.5		0	19.3
		1	0	23.1		0.3	23.7	18.7		0	19.3
		1	12	23.2		0.3	23.7	18.8		0	19.3
		1	24	23.2		0.3	23.7	18.8		0	19.3
		12	0	21.7		1.3	22.7	18.5		0	19.3
	256QAM	12	7	21.8		1.3	22.7	18.6		0	19.3
		12	13	21.8		1.3	22.7	18.6		0	19.3
		25	0	21.8		1.3	22.7	18.5		0	19.3
		1	0	19.4		3.3	20.7	18.7		0	19.3
		1	12	19.5		3.3	20.7	18.7		0	19.3
		1	24	19.5		3.3	20.7	18.7		0	19.3
		12	0	19.7		3.3	20.7	18.7		0	19.3
		12	7	19.8		3.3	20.7	18.7		0	19.3
		12	13	19.8		3.3	20.7	18.7		0	19.3
		25	0	19.8		3.3	20.7	18.7		0	19.3

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	17.5		0	18.4	17.4		0	18.2
		1	25	17.6		0	18.4	17.5		0	18.2
		1	49	17.6		0	18.4	17.5		0	18.2
		25	0	17.5		0	18.4	17.4		0	18.2
		25	12	17.6		0	18.4	17.5		0	18.2
		25	25	17.6		0	18.4	17.5		0	18.2
	16QAM	50	0	17.7		0	18.4	17.5		0	18.2
		1	0	17.9		0	18.4	17.3		0	18.2
		1	25	17.9		0	18.4	17.4		0	18.2
		1	49	18.0		0	18.4	17.4		0	18.2
		25	0	17.5		0	18.4	17.4		0	18.2
		25	12	17.7		0	18.4	17.5		0	18.2
	64QAM	25	25	17.8		0	18.4	17.6		0	18.2
		50	0	17.7		0	18.4	17.5		0	18.2
		1	0	17.5		0	18.4	17.6		0	18.2
		1	25	17.6		0	18.4	17.7		0	18.2
		1	49	17.6		0	18.4	17.7		0	18.2
		25	0	17.6		0	18.4	17.6		0	18.2
	256QAM	25	12	17.6		0	18.4	17.6		0	18.2
		25	25	17.6		0	18.4	17.7		0	18.2
		50	0	17.5		0	18.4	17.5		0	18.2
		1	0	17.5		0	18.4	17.6		0	18.2
		1	25	17.6		0	18.4	17.6		0	18.2
		1	49	17.6		0	18.4	17.6		0	18.2
		25	0	17.6		0	18.4	17.6		0	18.2
		25	12	17.6		0	18.4	17.6		0	18.2
		25	25	17.6		0	18.4	17.6		0	18.2
		50	0	17.5		0	18.4	17.6		0	18.2
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	17.6		0	18.4	17.7		0	18.2
		1	12	17.6		0	18.4	17.7		0	18.2
		1	24	17.6		0	18.4	17.7		0	18.2
		12	0	17.6		0	18.4	17.5		0	18.2
		12	7	17.7		0	18.4	17.6		0	18.2
		12	13	17.7		0	18.4	17.6		0	18.2
	16QAM	25	0	17.7		0	18.4	17.5		0	18.2
		1	0	17.8		0	18.4	17.7		0	18.2
		1	12	17.7		0	18.4	17.7		0	18.2
		1	24	17.8		0	18.4	17.7		0	18.2
		12	0	17.6		0	18.4	17.5		0	18.2
		12	7	17.7		0	18.4	17.7		0	18.2
	64QAM	12	13	17.7		0	18.4	17.6		0	18.2
		25	0	17.6		0	18.4	17.5		0	18.2
		1	0	17.5		0	18.4	17.7		0	18.2
		1	12	17.5		0	18.4	17.8		0	18.2
		1	24	17.5		0	18.4	17.9		0	18.2
		12	0	17.6		0	18.4	17.5		0	18.2
	256QAM	12	7	17.6		0	18.4	17.7		0	18.2
		12	13	17.5		0	18.4	17.7		0	18.2
		25	0	17.6		0	18.4	17.5		0	18.2
		1	0	17.5		0	18.4	17.7		0	18.2
		1	12	17.5		0	18.4	17.7		0	18.2
		1	24	17.5		0	18.4	17.7		0	18.2
		12	0	17.6		0	18.4	17.7		0	18.2
		12	7	17.6		0	18.4	17.7		0	18.2
		12	13	17.5		0	18.4	17.7		0	18.2
		25	0	17.6		0	18.4	17.7		0	18.2

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	MFR	Tune-up Limit	39750	40185	40620	41055	41490
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
20 MHz	QPSK	1	0	24.8	24.8	24.7	24.8	24.8	0	25.7	20.0	20.0	20.0	20.0	19.9
		1	49	24.9	24.9	24.8	24.9	24.9	0	25.7	20.1	20.1	20.1	20.1	20.0
		1	99	24.8	24.8	24.8	24.9	24.8	0	25.7	20.0	20.0	20.1	20.1	19.9
		50	0	23.9	23.9	23.9	23.9	23.9	1	24.7	20.1	20.1	20.1	20.1	20.0
		50	24	24.0	24.0	24.0	24.0	24.0	1	24.7	20.2	20.2	20.2	20.2	20.1
		50	50	23.9	23.9	23.9	23.9	23.9	1	24.7	20.1	20.1	20.1	20.1	20.0
		100	0	23.9	23.9	24.0	24.0	23.9	1	24.7	20.2	20.1	20.2	20.2	20.0
		1	0	23.9	23.9	23.9	23.8	23.8	1	24.7	20.3	20.1	19.9	20.2	20.0
	16QAM	1	49	23.8	23.8	23.7	23.8	23.8	1	24.7	20.2	20.1	19.9	20.2	19.8
		1	99	23.8	23.8	24.0	23.9	23.9	1	24.7	20.1	20.2	20.1	20.2	19.9
		50	0	23.0	23.0	22.9	23.0	22.9	2	23.7	20.2	20.2	20.1	20.2	20.0
		50	24	23.0	23.0	22.9	23.0	23.0	2	23.7	20.2	20.1	20.2	20.2	20.0
		50	50	22.9	22.9	22.9	23.0	22.9	2	23.7	20.1	20.1	20.1	20.2	19.9
		100	0	22.9	23.0	22.9	23.0	22.9	2	23.7	20.2	20.1	20.2	20.2	20.0
		1	0	22.8	23.1	22.6	22.7	22.9	2	23.7	20.0	20.3	19.7	20.0	20.2
		1	49	22.8	22.9	22.5	22.5	22.8	2	23.7	19.9	20.3	19.6	19.9	20.1
	64QAM	1	99	22.6	23.0	22.6	22.6	22.9	2	23.7	19.9	20.3	20.1	19.9	20.2
		50	0	21.8	21.7	21.7	21.7	21.7	3	22.7	20.1	20.0	20.0	20.0	19.9
		50	24	21.8	21.8	21.8	21.7	21.7	3	22.7	20.0	20.0	20.0	20.0	19.9
		50	50	21.8	21.7	21.7	21.7	21.6	3	22.7	20.0	20.0	19.9	20.0	19.9
		100	0	21.8	21.7	21.7	21.8	21.6	3	22.7	20.0	20.0	20.0	20.0	19.9
		1	0	20.1	20.0	19.7	19.6	19.6	5	20.7	20.0	20.3	19.8	20.0	20.3
		1	49	20.2	20.1	19.7	19.6	19.5	5	20.7	20.0	20.3	19.7	20.0	20.2
		1	99	20.1	20.1	19.8	19.7	19.6	5	20.7	20.0	20.3	19.8	20.0	20.2
	256QAM	50	0	19.9	19.8	19.7	19.7	19.6	5	20.7	20.0	20.3	19.8	20.0	20.2
		50	24	19.9	19.9	19.8	19.7	19.6	5	20.7	20.0	20.3	19.9	20.0	20.2
		50	50	19.9	19.8	19.7	19.7	19.6	5	20.7	20.0	20.3	19.9	20.0	20.2
		100	0	19.9	19.9	19.8	19.7	19.7	5	20.7	20.0	20.3	19.9	19.9	20.2
15 MHz	QPSK	1	0	24.8	24.8	24.8	24.7	24.7	0	25.7	20.1	20.0	20.0	20.0	19.9
		1	37	24.7	24.8	24.8	24.7	24.7	0	25.7	20.0	20.0	20.0	20.0	19.8
		1	74	24.7	24.9	24.9	24.8	24.8	0	25.7	20.0	20.2	20.1	20.1	19.9
		36	0	23.9	23.9	23.9	24.0	23.9	1	24.7	20.2	20.2	20.1	20.1	20.0
		36	20	23.9	23.9	23.9	24.0	23.9	1	24.7	20.2	20.2	20.1	20.1	20.0
		36	39	23.9	23.9	23.9	23.9	23.8	1	24.7	20.1	20.1	20.1	20.1	20.0
		75	0	23.9	23.9	23.9	24.0	23.9	1	24.7	20.2	20.1	20.2	20.1	20.0
		1	0	23.7	24.0	23.7	23.6	23.9	1	24.7	20.1	20.1	20.1	20.0	19.9
	16QAM	1	37	23.7	24.0	23.8	23.7	23.9	1	24.7	20.0	20.1	20.1	20.0	19.9
		1	74	23.6	24.1	23.8	23.8	24.0	1	24.7	20.0	20.1	20.2	20.0	20.0
		36	0	22.9	22.9	23.0	22.9	22.9	2	23.7	20.2	20.2	20.2	20.1	20.0
		36	20	22.8	23.0	23.0	22.9	22.9	2	23.7	20.2	20.2	20.1	20.2	20.0
		36	39	22.8	22.9	22.9	22.9	22.8	2	23.7	20.1	20.1	20.1	20.1	19.9
		75	0	22.9	22.9	22.9	23.0	22.9	2	23.7	20.2	20.1	20.2	20.2	20.0
		1	0	22.2	21.9	22.5	22.1	22.0	2	23.7	19.6	19.5	19.9	19.5	19.4
		1	37	22.1	21.9	22.5	21.9	21.9	2	23.7	19.6	19.3	20.1	19.5	19.3
	64QAM	1	74	22.2	22.0	22.6	21.9	22.0	2	23.7	19.5	19.4	20.1	19.6	19.2
		36	0	21.4	21.4	21.4	21.6	21.6	3	22.7	19.8	19.9	19.8	19.8	19.9
		36	20	21.3	21.4	21.5	21.6	21.6	3	22.7	19.7	19.9	19.8	19.8	19.9
		36	39	21.3	21.4	21.4	21.6	21.6	3	22.7	19.7	19.8	19.7	19.7	19.8
		75	0	21.4	21.4	21.4	21.7	21.6	3	22.7	19.8	19.8	19.8	19.8	19.8
		1	0	19.9	19.8	19.7	19.7	19.2	5	20.7	19.6	19.3	19.9	19.5	19.3
		1	37	19.9	19.8	19.7	19.6	19.2	5	20.7	19.6	19.3	19.9	19.6	19.3
		1	74	20.0	19.9	19.8	19.7	19.3	5	20.7	19.6	19.3	19.9	19.7	19.3
	256QAM	36	0	19.9	19.8	19.8	19.7	19.6	5	20.7	19.6	19.3	19.9	19.8	19.4
		36	20	19.8	19.8	19.8	19.7	19.6	5	20.7	19.6	19.3	19.9	19.7	19.3
		36	39	19.8	19.7	19.7	19.7	19.5	5	20.7	19.6	19.3	19.9	19.7	19.4
		75	0	19.8	19.8	19.8	19.7	19.6	5	20.7	19.6	19.3	19.9	19.6	19.4

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	MFR	Tune-up Limit	39750	40185	40620	41055	41490
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
10 MHz	QPSK	1	0	25.0	25.0	24.9	24.9	24.9	0	25.7	20.3	20.2	20.2	20.2	20.0
		1	25	25.0	24.9	25.0	25.0	24.8	0	25.7	20.2	20.2	20.2	20.2	20.0
		1	49	25.0	24.9	24.9	25.0	24.8	0	25.7	20.2	20.2	20.2	20.2	20.0
		25	0	24.1	24.0	24.0	24.0	24.0	1	24.7	20.3	20.3	20.3	20.3	20.1
		25	12	24.0	24.0	24.0	24.1	24.0	1	24.7	20.4	20.2	20.3	20.3	20.2
		25	25	24.0	24.0	24.0	24.0	23.9	1	24.7	20.3	20.2	20.2	20.2	20.1
	16QAM	50	0	24.0	24.0	24.0	24.1	24.0	1	24.7	20.3	20.3	20.3	20.3	20.2
		1	0	23.7	24.2	23.9	23.6	24.1	1	24.7	20.4	20.2	20.2	20.3	20.1
		1	25	23.6	24.1	23.8	23.6	24.0	1	24.7	20.4	20.2	20.3	20.4	20.1
		1	49	23.6	24.2	23.9	23.6	24.1	1	24.7	20.3	20.2	20.2	20.4	20.1
		25	0	23.1	23.0	23.0	23.0	23.0	2	23.7	20.3	20.3	20.3	20.3	20.2
		25	12	23.0	23.0	23.0	23.1	23.0	2	23.7	20.3	20.2	20.2	20.3	20.2
	64QAM	25	25	23.0	23.0	23.0	23.0	22.9	2	23.7	20.2	20.2	20.2	20.3	20.2
		50	0	23.0	23.0	23.1	23.0	23.0	2	23.7	20.3	20.2	20.3	20.3	20.2
		1	0	22.7	22.1	22.7	22.6	21.8	2	23.7	19.9	19.4	20.1	19.8	19.3
		1	25	22.6	22.0	22.7	22.1	22.0	2	23.7	19.9	19.4	20.0	19.8	19.3
		1	49	22.6	22.0	22.7	22.1	22.0	2	23.7	19.9	19.4	20.1	19.8	19.3
		25	0	21.5	21.6	21.5	21.4	21.5	3	22.7	19.9	19.8	19.8	19.8	19.8
	256QAM	25	12	21.5	21.6	21.5	21.5	21.5	3	22.7	19.8	19.9	19.9	19.8	19.8
		25	25	21.5	21.5	21.5	21.4	21.4	3	22.7	19.8	19.8	19.8	19.8	19.8
		50	0	21.5	21.6	21.5	21.5	21.4	3	22.7	19.8	19.9	19.9	19.8	19.8
		1	0	19.6	19.5	19.8	19.7	19.8	5	20.7	20.0	19.4	20.1	19.9	19.3
		1	25	19.7	19.6	19.8	19.8	19.8	5	20.7	20.0	19.4	20.1	19.9	19.3
		1	49	19.6	19.6	19.8	19.7	19.8	5	20.7	20.0	19.4	20.1	19.9	19.3
5 MHz	QPSK	25	0	20.0	20.0	19.9	19.8	19.7	5	20.7	20.0	19.4	20.1	19.9	19.3
		25	12	20.0	20.0	19.9	19.8	19.7	5	20.7	20.0	19.4	20.1	19.9	19.3
		25	25	20.0	19.9	19.8	19.8	19.6	5	20.7	20.0	19.4	20.1	19.9	19.3
		50	0	19.9	19.9	19.9	19.8	19.7	5	20.7	20.0	19.4	20.1	19.9	19.3
	16QAM	1	0	25.0	24.9	24.9	24.9	24.8	0	25.7	20.2	20.1	20.2	20.1	20.0
		1	12	24.9	24.9	24.9	24.9	24.8	0	25.7	20.2	20.1	20.4	20.1	19.9
		1	24	25.0	24.9	24.9	25.0	24.8	0	25.7	20.2	20.2	20.2	20.1	20.0
		12	0	24.0	24.0	24.0	24.0	23.9	1	24.7	20.3	20.3	20.3	20.2	20.1
		12	7	24.0	24.1	24.0	24.1	24.0	1	24.7	20.3	20.2	20.4	20.3	20.2
		12	13	24.0	24.0	24.0	24.0	24.0	1	24.7	20.2	20.2	20.3	20.3	20.2
	64QAM	25	0	24.0	24.0	24.0	24.1	23.9	1	24.7	20.3	20.2	20.3	20.2	20.2
		1	0	24.5	24.1	24.2	24.4	23.9	1	24.7	20.4	20.1	20.2	20.3	20.0
		1	12	24.5	24.0	24.1	24.4	23.9	1	24.7	20.3	20.1	20.2	20.3	20.0
		1	24	24.4	24.0	24.1	24.4	23.9	1	24.7	20.4	20.2	20.2	20.3	20.0
		12	0	23.1	22.9	23.0	23.0	22.9	2	23.7	20.3	20.3	20.2	20.3	20.2
		12	7	23.0	23.0	23.0	23.1	22.9	2	23.7	20.4	20.2	20.3	20.3	20.2
	256QAM	12	13	22.9	22.8	23.0	23.0	22.9	2	23.7	20.2	20.3	20.3	20.3	20.2
		25	0	22.9	23.0	23.0	23.0	23.0	2	23.7	20.3	20.2	20.3	20.3	20.2
		1	0	22.3	23.0	22.7	22.2	22.9	2	23.7	19.7	20.4	20.2	19.8	20.1
		1	12	22.4	23.0	22.7	22.0	22.9	2	23.7	19.9	20.4	20.2	19.8	20.2
		1	24	22.2	22.9	22.6	22.0	22.9	2	23.7	19.7	20.2	20.1	19.8	20.1
		12	0	21.7	21.6	21.5	21.5	21.5	3	22.7	20.2	20.2	20.0	20.1	19.8
5 MHz	64QAM	12	7	21.6	21.7	21.5	21.5	21.6	3	22.7	20.2	20.3	20.0	20.1	19.9
		12	13	21.6	21.6	21.5	21.4	21.5	3	22.7	20.1	20.1	20.0	20.0	19.8
		25	0	21.6	21.5	21.4	21.5	21.4	3	22.7	20.1	20.0	20.0	20.1	19.6
		1	0	20.2	19.9	19.9	19.7	19.7	5	20.7	19.9	20.4	20.2	19.7	20.1
		1	12	20.3	20.2	19.8	19.7	19.9	5	20.7	19.8	20.4	20.2	19.7	20.1
		1	24	20.2	20.1	19.8	19.6	19.7	5	20.7	19.8	20.4	20.2	19.7	20.1
	256QAM	12	0	20.0	19.9	19.8	19.6	19.7	5	20.7	19.8	20.4	20.2	19.5	20.1
		12	7	20.0	19.9	19.9	19.7	19.7	5	20.7	19.8	20.4	20.2	19.5	20.1
		12	13	19.9	19.9	19.9	19.6	19.6	5	20.7	19.8	20.4	20.2	19.5	20.1
		25	0	19.9	20.0	19.8	19.7	19.6	5	20.7	19.8	20.4	20.2	19.5	20.1

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	MFR	Tune-up Limit	39750	40185	40620	41055	41490	MFR	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	16.6	16.9	16.8	16.8	16.8	0	17.4	17.8	18.1	17.9	18.0	18.0	0	18.6
		1	49	16.9	17.0	16.9	16.9	16.9	0	17.4	18.1	18.2	18.0	18.1	18.1	0	18.6
		1	99	16.9	17.0	16.8	16.9	16.8	0	17.4	18.1	18.2	18.0	18.1	18.1	0	18.6
		50	0	16.9	17.2	16.9	16.9	16.9	0	17.4	18.1	18.3	18.1	18.1	18.1	0	18.6
		50	24	17.0	17.3	17.0	17.0	17.0	0	17.4	18.2	18.4	18.2	18.2	18.2	0	18.6
		50	50	17.0	17.2	16.9	16.9	16.9	0	17.4	18.2	18.3	18.1	18.1	18.1	0	18.6
		100	0	17.0	17.1	17.1	16.9	16.9	0	17.4	18.2	18.3	18.3	18.1	18.1	0	18.6
		1	0	16.7	17.1	16.8	17.0	16.9	0	17.4	17.9	18.2	17.9	18.2	18.0	0	18.6
	16QAM	1	49	17.1	17.0	16.6	16.9	16.7	0	17.4	18.2	18.2	17.7	18.1	17.9	0	18.6
		1	99	17.1	17.1	16.7	17.0	16.8	0	17.4	18.3	18.2	17.9	18.2	17.9	0	18.6
		50	0	17.0	17.2	16.9	17.0	16.9	0	17.4	18.2	18.4	18.1	18.1	18.1	0	18.6
		50	24	17.1	17.1	16.9	17.0	16.9	0	17.4	18.2	18.3	18.1	18.1	18.1	0	18.6
		50	50	17.1	17.1	16.9	17.0	16.9	0	17.4	18.3	18.3	18.1	18.2	18.1	0	18.6
		100	0	17.0	17.2	16.9	16.9	16.9	0	17.4	18.2	18.3	18.0	18.1	18.1	0	18.6
		1	0	16.8	16.8	16.9	16.8	16.9	0	17.4	18.0	18.0	17.9	17.9	18.0	0	18.6
		1	49	16.8	16.8	16.8	16.8	16.8	0	17.4	18.0	17.9	17.9	18.0	18.0	0	18.6
	64QAM	1	99	16.8	16.9	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		50	0	16.8	16.8	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		50	24	16.8	16.9	16.9	16.8	16.8	0	17.4	17.9	18.0	18.0	17.9	18.0	0	18.6
		50	50	16.8	16.8	16.8	16.9	16.8	0	17.4	17.9	17.9	17.9	17.9	18.0	0	18.6
		100	0	16.8	16.9	16.8	16.8	16.9	0	17.4	18.0	17.9	18.0	18.0	18.0	0	18.6
		1	0	16.7	16.7	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.8	17.9	0	18.6
		1	49	16.8	16.7	16.8	16.8	16.7	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		1	99	16.7	16.9	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.8	0	18.6
	256QAM	50	0	16.8	16.8	16.7	16.7	16.8	0	17.4	17.9	17.8	17.9	17.9	17.9	0	18.6
		50	24	16.8	16.8	16.8	16.7	16.7	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		50	50	16.7	16.7	16.8	16.9	16.8	0	17.4	17.9	17.8	17.9	17.9	17.9	0	18.6
		100	0	16.7	16.8	16.8	16.7	16.9	0	17.4	17.9	17.9	18.0	17.9	18.0	0	18.6
15 MHz	QPSK	1	0	16.8	17.1	16.8	16.9	16.8	0	17.4	18.0	18.2	18.0	18.1	18.0	0	18.6
		1	37	16.9	17.1	16.7	16.8	16.7	0	17.4	18.1	18.2	17.9	18.0	17.9	0	18.6
		1	74	17.0	17.2	16.8	16.9	16.8	0	17.4	18.2	18.3	18.0	18.1	18.1	0	18.6
		36	0	17.0	17.2	16.9	16.9	16.9	0	17.4	18.2	18.4	18.1	18.1	18.1	0	18.6
		36	20	17.0	17.2	16.9	16.9	16.9	0	17.4	18.2	18.4	18.1	18.1	18.1	0	18.6
		36	39	17.1	17.2	16.9	16.9	16.9	0	17.4	18.2	18.3	18.1	18.1	18.1	0	18.6
		75	0	17.0	17.2	16.9	16.9	16.9	0	17.4	18.2	18.3	18.1	18.1	18.1	0	18.6
		1	0	16.8	17.0	16.8	16.9	16.8	0	17.4	18.0	18.2	18.0	18.1	18.0	0	18.6
	16QAM	1	37	17.0	17.0	16.8	16.9	16.7	0	17.4	18.1	18.2	18.0	18.1	17.9	0	18.6
		1	74	17.1	17.1	16.9	17.0	16.8	0	17.4	18.3	18.3	18.0	18.1	18.0	0	18.6
		36	0	17.0	17.2	16.9	17.0	16.9	0	17.4	18.2	18.4	18.1	18.1	18.1	0	18.6
		36	20	17.0	17.2	16.8	16.9	16.9	0	17.4	18.2	18.4	18.0	18.1	18.1	0	18.6
		36	39	17.1	17.1	16.8	17.0	16.9	0	17.4	18.2	18.3	18.0	18.1	18.1	0	18.6
		75	0	17.0	17.1	16.9	16.9	16.9	0	17.4	18.2	18.3	18.1	18.1	18.1	0	18.6
		1	0	16.8	16.9	16.8	16.9	16.9	0	17.4	17.9	18.3	17.9	17.9	17.9	0	18.6
		1	37	16.8	16.9	16.9	16.9	16.9	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
	64QAM	1	74	16.8	16.8	16.8	16.8	16.8	0	17.4	18.0	17.9	18.0	17.9	17.9	0	18.6
		36	0	16.9	16.8	16.8	16.9	16.9	0	17.4	17.9	18.0	18.0	17.9	17.9	0	18.6
		36	20	16.8	16.8	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	18.0	17.9	0	18.6
		36	39	16.8	16.8	16.8	16.8	16.9	0	17.4	18.0	17.9	17.9	17.9	17.9	0	18.6
		75	0	16.8	16.9	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		1	0	16.8	16.9	16.7	16.8	16.8	0	17.4	17.8	17.9	17.8	17.9	17.9	0	18.6
		1	37	16.8	16.9	16.8	16.9	16.9	0	17.4	17.8	17.8	17.9	17.9	17.8	0	18.6
		1	74	16.8	16.7	16.8	16.8	16.8	0	17.4	18.0	17.9	17.9	17.8	17.9	0	18.6
	256QAM	36	0	16.8	16.8	16.8	16.8	16.9	0	17.4	17.9	17.9	17.9	17.9	17.8	0	18.6
		36	20	16.7	16.7	16.8	16.7	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		36	39	16.8	16.7	16.8	16.8	16.8	0	17.4	17.9	17.9	17.8	17.9	17.9	0	18.6
		75	0	16.7	16.8	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6

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	MFR	Tune-up Limit	39750	40185	40620	41055	41490	MFR	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	17.1	17.2	17.0	17.0	17.0	0	17.4	18.3	18.4	18.1	18.2	18.2	0	18.6
		1	25	17.1	17.2	17.0	17.0	17.0	0	17.4	18.3	18.4	18.1	18.2	18.1	0	18.6
		1	49	17.2	17.2	17.0	17.0	17.0	0	17.4	18.4	18.4	18.1	18.2	18.2	0	18.6
		25	0	17.2	17.3	17.1	17.1	17.0	0	17.4	18.4	18.5	18.2	18.2	18.2	0	18.6
		25	12	17.2	17.3	17.1	17.1	17.1	0	17.4	18.4	18.4	18.2	18.2	18.3	0	18.6
		25	25	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.4	18.2	18.3	18.3	0	18.6
		50	0	17.2	17.3	17.1	17.1	17.1	0	17.4	18.3	18.4	18.2	18.2	18.3	0	18.6
		50	25	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.4	18.1	18.4	18.2	0	18.6
	16QAM	1	0	17.2	17.2	17.0	17.2	17.0	0	17.4	18.4	18.4	18.1	18.4	18.2	0	18.6
		1	25	17.3	17.2	16.9	17.2	17.0	0	17.4	18.5	18.4	18.2	18.4	18.1	0	18.6
		1	49	17.4	17.3	17.0	17.2	17.0	0	17.4	18.6	18.5	18.2	18.4	18.2	0	18.6
		25	0	17.2	17.3	17.0	17.1	17.0	0	17.4	18.4	18.5	18.2	18.2	18.2	0	18.6
		25	12	17.2	17.3	17.1	17.1	17.1	0	17.4	18.4	18.5	18.2	18.3	18.3	0	18.6
		25	25	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.5	18.2	18.3	18.3	0	18.6
		50	0	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.5	18.2	18.3	18.3	0	18.6
		50	25	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.5	18.2	18.3	18.3	0	18.6
	64QAM	1	0	16.8	16.8	16.8	16.9	16.9	0	17.4	17.9	18.0	17.9	17.9	17.9	0	18.6
		1	25	16.9	16.8	16.9	16.8	16.8	0	17.4	18.0	17.9	17.9	17.9	17.9	0	18.6
		1	49	16.8	16.8	16.8	16.8	16.8	0	17.4	18.0	17.9	17.9	18.0	18.0	0	18.6
		25	0	16.8	16.9	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	18.0	17.9	0	18.6
		25	12	16.8	16.8	16.9	16.9	16.8	0	17.4	17.9	17.9	17.9	18.0	17.9	0	18.6
		25	25	16.9	16.8	16.8	16.9	16.8	0	17.4	17.9	18.0	18.0	18.0	17.9	0	18.6
		50	0	16.9	16.9	16.8	16.8	16.8	0	17.4	18.0	18.0	17.9	18.0	17.9	0	18.6
		50	25	16.8	16.9	16.8	16.8	16.8	0	17.4	17.9	17.9	17.8	17.9	17.9	0	18.6
	256QAM	1	0	16.8	16.7	16.8	16.9	16.8	0	17.4	17.9	17.9	17.8	17.9	17.9	0	18.6
		1	25	16.9	16.8	16.8	16.8	16.7	0	17.4	17.9	17.8	17.9	17.9	17.8	0	18.6
		1	49	16.7	16.8	16.8	16.8	16.8	0	17.4	18.0	17.9	17.9	17.9	17.9	0	18.6
		25	0	16.7	16.8	16.9	16.8	16.7	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		25	12	16.8	16.7	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		25	25	16.9	16.8	16.7	16.8	16.7	0	17.4	17.9	17.9	18.0	17.9	17.8	0	18.6
		50	0	16.8	16.9	16.7	16.8	16.8	0	17.4	17.9	18.0	17.9	17.9	17.9	0	18.6
		50	25	16.8	16.9	16.7	16.8	16.8	0	17.4	17.9	18.0	17.9	17.9	17.9	0	18.6
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MFR	Tune-up Limit	39750	40185	40620	41055	41490	MFR	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	17.1	17.2	17.0	17.0	17.0	0	17.4	18.4	18.3	18.1	18.1	18.1	0	18.6
		1	12	17.1	17.2	16.9	17.0	17.0	0	17.4	18.4	18.3	18.0	18.2	18.0	0	18.6
		1	24	17.2	17.2	17.0	17.0	17.0	0	17.4	18.5	18.4	18.1	18.2	18.2	0	18.6
		12	0	17.2	17.4	17.1	17.1	17.0	0	17.4	18.5	18.5	18.2	18.2	18.2	0	18.6
		12	7	17.2	17.3	17.1	17.1	17.1	0	17.4	18.4	18.5	18.2	18.2	18.3	0	18.6
		12	13	17.2	17.3	17.0	17.1	17.1	0	17.4	18.4	18.4	18.2	18.2	18.3	0	18.6
		25	0	17.1	17.3	17.0	17.0	17.1	0	17.4	18.4	18.4	18.2	18.2	18.3	0	18.6
		25	12	17.2	17.2	17.0	17.1	17.0	0	17.4	18.5	18.4	18.1	18.3	18.1	0	18.6
	16QAM	1	0	17.2	17.2	16.9	17.1	16.9	0	17.4	18.5	18.5	18.3	18.1	18.3	0	18.6
		1	24	17.4	17.2	17.0	17.2	17.0	0	17.4	18.6	18.4	18.1	18.4	18.2	0	18.6
		12	0	17.3	17.4	17.0	17.0	17.0	0	17.4	18.5	18.5	18.1	18.2	18.2	0	18.6
		12	7	17.3	17.4	17.0	17.0	17.2	0	17.4	18.5	18.6	18.2	18.2	18.3	0	18.6
		12	13	17.2	17.3	17.0	17.2	17.1	0	17.4	18.5	18.5	18.2	18.3	18.3	0	18.6
		25	0	17.1	17.3	17.0	17.0	17.1	0	17.4	18.4	18.5	18.2	18.2	18.3	0	18.6
		25	12	17.2	17.2	16.9	17.1	16.9	0	17.4	18.5	18.4	18.1	18.3	18.1	0	18.6
		25	25	17.2	17.2	16.9	17.1	16.9	0	17.4	18.5	18.4	18.1	18.3	18.1	0	18.6
	64QAM	1	0	16.8	16.9	16.8	16.8	16.8	0	17.4	17.9	18.0	17.9	17.9	17.9	0	18.6
		1	12	16.9	16.9	16.8	16.9	16.8	0	17.4	18.0	18.0	18.0	18.0	18.0	0	18.6
		1	24	16.8	16.9	16.9	16.8	16.8	0	17.4	18.0	17.9	17.9	17.9	17.9	0	18.6
		12	0	16.8	16.8	16.9	16.8	16.8	0	17.4	18.0	17.9	18.0	17.9	17.9	0	18.6
		12	7	16.8	16.9	16.8	16.9	16.8	0	17.4	17.9	17.9	18.0	17.9	17.9	0	18.6
		12	13	16.8	16.8	16.9	16.8	16.9	0	17.4	17.9	18.0	18.0	17.9	17.9	0	18.6
		25	0	16.8	16.8	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		25	12	16.8	16.8	16.8	16.8	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
	256QAM	1	0	16.7	16.9	16.8	16.8	16.8	0	17.4	17.9	18.0	17.9	17.8	17.8	0	18.6
		1	12	16.9	16.9	16.8	16.9	16.7	0	17.4	17.9	17.9	18.0	17.9	17.9	0	18.6
		1	24	16.8	16.8	16.9	16.8	16.8	0	17.4	17.9	17.9	17.9	17.8	17.9	0	18.6
		12	0	16.8	16.8	16.8	16.7	16.8	0	17.4	17.9	17.9	17.9	17.9	17.9	0	18.6
		12	7	16.8	16.8	16.8	16.9	16.8	0	17.4	17.8	17.8	17.9	17.9	17.9	0	18.6
		12	13	16.8	16.8	16.9	16.7	16.8	0	17.4	17.9	17.9	18.0	17.9	17.9	0	18.6
		25	0	16.8	16.8	16.7	16.7	16.8	0	17.4	17.9	17.9	17.8	17.9	17.9	0	18.6
		25	12	16.8	16.8	16.7	16.7	16.8	0	17.4	17.9	17.9	17.8	17.9	17.9	0	18.6

LTE Band 48 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MFR	Tune-up Limit	55340	55773	56207	56640	MFR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	21.7	21.9	22.1	22.1	0	22.7	21.7	21.9	22.1	22.1	0	22.7
		1	49	21.7	21.9	22.1	22.1	0	22.7	21.7	21.9	22.1	22.1	0	22.7
		1	99	21.8	22.0	22.2	22.1	0	22.7	21.8	22.0	22.2	22.1	0	22.7
		50	0	21.8	22.0	22.2	22.2	0	22.7	21.8	22.0	22.2	22.2	0	22.7
		50	24	21.9	22.1	22.2	22.3	0	22.7	21.9	22.1	22.2	22.3	0	22.7
		50	50	21.9	22.1	22.3	22.2	0	22.7	21.9	22.1	22.3	22.2	0	22.7
	16QAM	100	0	21.9	22.1	22.3	22.3	0	22.7	21.9	22.1	22.3	22.3	0	22.7
		1	0	21.7	21.7	21.8	22.1	0	22.7	21.7	21.7	21.8	22.1	0	22.7
		1	49	21.8	21.8	21.8	22.1	0	22.7	21.8	21.8	21.8	22.1	0	22.7
		1	99	21.8	21.9	21.9	22.1	0	22.7	21.8	21.9	21.9	22.1	0	22.7
		50	0	21.7	21.9	22.0	22.1	0	22.7	21.7	21.9	22.0	22.1	0	22.7
		50	24	21.8	22.0	22.2	22.2	0	22.7	21.8	22.0	22.2	22.2	0	22.7
	64QAM	50	50	21.9	22.0	22.2	22.2	0	22.7	21.9	22.0	22.2	22.2	0	22.7
		100	0	21.8	22.0	22.1	22.2	0	22.7	21.8	22.0	22.1	22.2	0	22.7
		1	0	21.5	21.7	21.7	21.8	0	22.7	21.5	21.7	21.7	21.8	0	22.7
		1	49	21.6	21.9	21.8	21.9	0	22.7	21.6	21.9	21.8	21.9	0	22.7
		1	99	21.6	21.9	21.8	21.9	0	22.7	21.6	21.9	21.8	21.9	0	22.7
		50	0	21.5	21.4	21.8	21.9	0	22.7	21.5	21.4	21.8	21.9	0	22.7
	256QAM	50	24	21.6	21.6	21.9	21.9	0	22.7	21.6	21.6	21.9	21.9	0	22.7
		50	50	21.6	21.6	21.9	21.9	0	22.7	21.6	21.6	21.9	21.9	0	22.7
		100	0	21.6	21.5	21.9	21.9	0	22.7	21.6	21.5	21.9	21.9	0	22.7
		1	0	19.4	19.3	19.4	19.7	2	20.7	19.4	19.3	19.4	19.7	2	20.7
		1	49	19.4	19.3	19.5	19.7	2	20.7	19.4	19.3	19.5	19.7	2	20.7
		1	99	19.6	19.5	19.6	19.8	2	20.7	19.6	19.5	19.6	19.8	2	20.7
15 MHz	QPSK	50	0	19.2	19.3	19.4	19.5	2	20.7	19.2	19.3	19.4	19.5	2	20.7
		50	24	19.3	19.4	19.6	19.6	2	20.7	19.3	19.4	19.6	19.6	2	20.7
		50	50	19.3	19.5	19.6	19.5	2	20.7	19.3	19.5	19.6	19.5	2	20.7
		100	0	19.2	19.4	19.6	19.6	2	20.7	19.2	19.4	19.6	19.6	2	20.7
	16QAM	1	0	21.7	21.7	21.8	22.1	0	22.7	21.7	21.7	21.8	22.1	0	22.7
		1	37	21.7	21.9	22.0	22.1	0	22.7	21.7	21.9	22.0	22.1	0	22.7
		1	74	21.8	22.0	22.1	22.1	0	22.7	21.8	22.0	22.1	22.1	0	22.7
		36	0	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
		36	20	21.8	22.0	22.2	22.3	0	22.7	21.8	22.0	22.2	22.3	0	22.7
		36	39	21.9	22.1	22.2	22.2	0	22.7	21.9	22.1	22.2	22.2	0	22.7
	64QAM	75	0	21.9	22.0	22.3	22.2	0	22.7	21.9	22.0	22.3	22.2	0	22.7
		1	0	21.7	21.7	21.8	22.1	0	22.7	21.7	21.7	21.8	22.1	0	22.7
		1	37	21.7	21.8	21.8	22.0	0	22.7	21.7	21.8	21.8	22.0	0	22.7
		1	74	21.8	21.9	21.9	22.0	0	22.7	21.8	21.9	21.9	22.0	0	22.7
		36	0	21.7	21.8	22.0	22.1	0	22.7	21.7	21.8	22.0	22.1	0	22.7
		36	20	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
	256QAM	36	39	21.8	21.9	22.1	22.2	0	22.7	21.8	21.9	22.1	22.2	0	22.7
		75	0	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
		1	0	21.5	21.7	21.7	21.8	0	22.7	21.5	21.7	21.7	21.8	0	22.7
		1	37	21.5	21.9	21.7	21.8	0	22.7	21.5	21.9	21.7	21.8	0	22.7
		1	74	21.6	21.9	21.8	21.9	0	22.7	21.6	21.9	21.8	21.9	0	22.7
		36	0	21.4	21.4	21.8	21.9	0	22.7	21.4	21.4	21.8	21.9	0	22.7
	64QAM	36	20	21.5	21.5	21.9	21.9	0	22.7	21.5	21.5	21.9	21.9	0	22.7
		36	39	21.5	21.5	21.9	21.8	0	22.7	21.5	21.5	21.9	21.8	0	22.7
		75	0	21.5	21.5	21.9	21.9	0	22.7	21.5	21.5	21.9	21.9	0	22.7
	256QAM	1	0	19.0	19.3	19.1	19.5	2	20.7	19.0	19.3	19.1	19.5	2	20.7
		1	37	19.1	19.3	19.1	19.5	2	20.7	19.1	19.3	19.1	19.5	2	20.7
		1	74	19.2	19.5	19.3	19.6	2	20.7	19.2	19.5	19.3	19.6	2	20.7
		36	0	19.0	19.3	19.5	19.4	2	20.7	19.0	19.3	19.5	19.4	2	20.7
	256QAM	36	20	19.1	19.4	19.5	19.5	2	20.7	19.1	19.4	19.5	19.5	2	20.7
		36	39	19.1	19.4	19.6	19.5	2	20.7	19.1	19.4	19.6	19.5	2	20.7
		75	0	19.2	19.4	19.5	19.5	2	20.7	19.2	19.4	19.5	19.5	2	20.7

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290	55757	56223	56690	MFR	Tune-up Limit	55290	55757	56223	56690	MFR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	21.7	21.9	22.1	22.1	0	22.7	21.7	21.9	22.1	22.1	0	22.7
		1	25	21.7	21.9	22.0	22.0	0	22.7	21.7	21.9	22.0	22.0	0	22.7
		1	49	21.7	22.0	22.1	22.1	0	22.7	21.7	22.0	22.1	22.1	0	22.7
		25	0	21.7	22.0	22.1	22.2	0	22.7	21.7	22.0	22.1	22.2	0	22.7
		25	12	21.8	22.1	22.2	22.3	0	22.7	21.8	22.1	22.2	22.3	0	22.7
		25	25	21.9	22.1	22.3	22.2	0	22.7	21.9	22.1	22.3	22.2	0	22.7
		50	0	21.8	22.0	22.2	22.2	0	22.7	21.8	22.0	22.2	22.2	0	22.7
	16QAM	1	0	21.7	21.7	21.8	22.1	0	22.7	21.7	21.7	21.8	22.1	0	22.7
		1	25	21.7	21.8	21.8	22.1	0	22.7	21.7	21.8	21.8	22.1	0	22.7
		1	49	21.8	21.9	21.8	22.0	0	22.7	21.8	21.9	21.8	22.0	0	22.7
		25	0	21.7	21.8	22.0	22.1	0	22.7	21.7	21.8	22.0	22.1	0	22.7
		25	12	21.8	21.9	22.1	22.2	0	22.7	21.8	21.9	22.1	22.2	0	22.7
		25	25	21.8	21.9	22.2	22.2	0	22.7	21.8	21.9	22.2	22.2	0	22.7
		50	0	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
	64QAM	1	0	21.5	21.7	21.7	21.8	0	22.7	21.5	21.7	21.7	21.8	0	22.7
		1	25	21.5	21.8	21.7	21.8	0	22.7	21.5	21.8	21.7	21.8	0	22.7
		1	49	21.5	21.9	21.8	21.9	0	22.7	21.5	21.9	21.8	21.9	0	22.7
		25	0	21.4	21.4	21.8	21.9	0	22.7	21.4	21.4	21.8	21.9	0	22.7
		25	12	21.5	21.5	21.8	21.9	0	22.7	21.5	21.5	21.8	21.9	0	22.7
		25	25	21.6	21.5	21.9	21.9	0	22.7	21.6	21.5	21.9	21.9	0	22.7
		50	0	21.5	21.5	21.9	21.9	0	22.7	21.5	21.5	21.9	21.9	0	22.7
	256QAM	1	0	19.1	19.5	19.2	19.5	2	20.7	19.1	19.5	19.2	19.5	2	20.7
		1	25	19.1	19.5	19.3	19.5	2	20.7	19.1	19.5	19.3	19.5	2	20.7
		1	49	19.2	19.7	19.4	19.6	2	20.7	19.2	19.7	19.4	19.6	2	20.7
		25	0	19.2	19.5	19.6	19.6	2	20.7	19.2	19.5	19.6	19.6	2	20.7
		25	12	19.3	19.5	19.6	19.6	2	20.7	19.3	19.5	19.6	19.6	2	20.7
		25	25	19.3	19.5	19.7	19.6	2	20.7	19.3	19.5	19.7	19.6	2	20.7
		50	0	19.3	19.5	19.6	19.6	2	20.7	19.3	19.5	19.6	19.6	2	20.7
5 MHz	QPSK	1	0	21.7	21.9	22.1	22.1	0	22.7	21.7	21.9	22.1	22.1	0	22.7
		1	12	21.7	21.9	22.1	22.0	0	22.7	21.7	21.9	22.1	22.0	0	22.7
		1	24	21.7	21.9	22.1	22.0	0	22.7	21.7	21.9	22.1	22.0	0	22.7
		12	0	21.7	21.9	22.1	22.1	0	22.7	21.7	21.9	22.1	22.1	0	22.7
		12	7	21.9	22.1	22.2	22.2	0	22.7	21.9	22.1	22.2	22.2	0	22.7
		12	13	21.8	22.1	22.2	22.2	0	22.7	21.8	22.1	22.2	22.2	0	22.7
		25	0	21.9	22.0	22.2	22.2	0	22.7	21.9	22.0	22.2	22.2	0	22.7
	16QAM	1	0	21.7	21.7	21.8	22.1	0	22.7	21.7	21.7	21.8	22.1	0	22.7
		1	12	21.8	21.8	21.8	22.1	0	22.7	21.8	21.8	21.8	22.1	0	22.7
		1	24	21.8	21.9	21.9	22.1	0	22.7	21.8	21.9	21.9	22.1	0	22.7
		12	0	21.7	21.8	22.0	22.1	0	22.7	21.7	21.8	22.0	22.1	0	22.7
		12	7	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
		12	13	21.8	22.0	22.2	22.2	0	22.7	21.8	22.0	22.2	22.2	0	22.7
		25	0	21.8	21.9	22.1	22.1	0	22.7	21.8	21.9	22.1	22.1	0	22.7
	64QAM	1	0	21.5	21.7	21.7	21.7	0	22.7	21.5	21.7	21.7	21.7	0	22.7
		1	12	21.5	21.9	21.7	21.8	0	22.7	21.5	21.9	21.7	21.8	0	22.7
		1	24	21.6	21.9	21.8	21.9	0	22.7	21.6	21.9	21.8	21.9	0	22.7
		12	0	21.4	21.3	21.8	21.8	0	22.7	21.4	21.3	21.8	21.8	0	22.7
		12	7	21.5	21.5	21.8	21.9	0	22.7	21.5	21.5	21.8	21.9	0	22.7
		12	13	21.5	21.6	21.8	21.8	0	22.7	21.5	21.6	21.8	21.8	0	22.7
		25	0	21.6	21.5	21.9	21.9	0	22.7	21.6	21.5	21.9	21.9	0	22.7
	256QAM	1	0	19.3	19.5	19.8	19.7	2	20.7	19.3	19.5	19.8	19.7	2	20.7
		1	12	19.2	19.6	19.9	19.6	2	20.7	19.2	19.6	19.9	19.6	2	20.7
		1	24	19.3	19.6	19.9	19.7	2	20.7	19.3	19.6	19.9	19.7	2	20.7
		12	0	19.3	19.5	19.5	19.6	2	20.7	19.3	19.5	19.5	19.6	2	20.7
		12	7	19.3	19.5	19.6	19.6	2	20.7	19.3	19.5	19.6	19.6	2	20.7
		12	13	19.3	19.5	19.6	19.6	2	20.7	19.3	19.5	19.6	19.6	2	20.7
		25	0	19.3	19.4	19.5	19.6	2	20.7	19.3	19.4	19.5	19.6	2	20.7

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MFR	Tune-up Limit	55340	55773	56207	56640	MFR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	18.4	18.4	18.5	18.4	0	19.2	21.6	21.7	21.8	21.8	0	22.5
		1	49	18.5	18.5	18.6	18.5	0	19.2	21.7	21.8	21.9	21.9	0	22.5
		1	99	18.4	18.5	18.5	18.5	0	19.2	21.7	21.8	21.9	21.9	0	22.5
		50	0	18.5	18.4	18.5	18.5	0	19.2	20.7	20.8	20.9	20.9	1	21.5
		50	24	18.6	18.5	18.6	18.6	0	19.2	20.8	20.9	21.0	21.0	1	21.5
		50	50	18.5	18.5	18.6	18.6	0	19.2	20.8	20.9	21.0	21.0	1	21.5
	16QAM	100	0	18.6	18.5	18.6	18.6	0	19.2	20.8	20.9	21.0	21.0	1	21.5
		1	0	18.6	18.2	18.4	18.8	0	19.2	20.8	20.9	20.8	21.0	1	21.5
		1	49	18.5	18.2	18.4	18.8	0	19.2	20.8	20.8	20.7	21.0	1	21.5
		1	99	18.5	18.3	18.5	18.8	0	19.2	20.8	20.9	20.8	21.0	1	21.5
		50	0	18.5	18.3	18.6	18.8	0	19.2	19.7	19.9	20.0	20.0	2	20.5
		50	24	18.6	18.4	18.6	18.8	0	19.2	19.8	19.9	20.1	20.1	2	20.5
	64QAM	50	50	18.6	18.4	18.7	18.8	0	19.2	19.8	19.9	20.1	20.1	2	20.5
		100	0	18.5	18.4	18.6	18.7	0	19.2	19.8	19.9	20.0	20.0	2	20.5
		1	0	18.4	18.7	18.5	18.7	0	19.2	19.5	19.9	19.5	19.7	2	20.5
		1	49	18.5	18.7	18.5	18.8	0	19.2	19.5	20.0	19.5	19.8	2	20.5
		1	99	18.5	18.7	18.7	18.8	0	19.2	19.6	20.0	19.7	19.8	2	20.5
		50	0	18.3	18.2	18.4	18.6	0	19.2	18.5	18.6	18.7	18.8	3	19.5
15 MHz	QPSK	50	24	18.4	18.3	18.5	18.6	0	19.2	18.6	18.7	18.7	18.9	3	19.5
		50	50	18.3	18.3	18.6	18.7	0	19.2	18.6	18.7	18.8	18.9	3	19.5
		100	0	18.4	18.2	18.4	18.6	0	19.2	18.6	18.7	18.7	18.9	3	19.5
	16QAM	1	0	17.0	17.2	16.9	17.2	1.7	17.5	16.6	16.9	16.5	16.7	5	17.5
		1	49	17.0	17.2	17.0	17.2	1.7	17.5	16.5	16.9	16.5	16.7	5	17.5
		1	99	17.0	17.2	16.9	17.2	1.7	17.5	16.5	17.0	16.5	16.7	5	17.5
		50	0	17.0	17.1	16.9	17.2	1.7	17.5	16.5	16.9	16.5	16.7	5	17.5
		50	24	17.0	17.1	17.0	17.2	1.7	17.5	16.5	17.0	16.5	16.7	5	17.5
		50	50	17.0	17.1	17.0	17.2	1.7	17.5	16.5	16.9	16.5	16.7	5	17.5
	64QAM	100	0	17.0	17.2	17.0	17.3	1.7	17.5	16.5	16.9	16.5	16.7	5	17.5
		1	0	18.2	18.2	18.4	18.6	0	19.2	21.6	21.8	21.8	21.9	0	22.5
		1	37	18.1	18.2	18.5	18.6	0	19.2	21.6	21.8	21.8	21.8	0	22.5
		1	74	18.1	18.2	18.6	18.7	0	19.2	21.6	21.8	21.9	21.9	0	22.5
		36	0	18.2	18.3	18.6	18.7	0	19.2	20.7	20.9	21.0	21.0	1	21.5
		36	20	18.3	18.4	18.6	18.8	0	19.2	20.7	21.0	21.0	21.0	1	21.5
15 MHz	QPSK	36	39	18.2	18.4	18.7	18.8	0	19.2	20.7	20.9	21.0	21.0	1	21.5
		75	0	18.3	18.4	18.6	18.7	0	19.2	20.7	20.9	21.0	21.0	1	21.5
	16QAM	1	0	18.2	18.2	18.5	18.7	0	19.2	20.6	20.8	20.9	20.9	1	21.5
		1	37	18.1	18.2	18.6	18.6	0	19.2	20.6	20.8	20.9	20.8	1	21.5
		1	74	18.1	18.2	18.6	18.6	0	19.2	20.7	20.8	20.9	20.9	1	21.5
		36	0	18.3	18.3	18.5	18.7	0	19.2	19.7	19.9	20.0	20.1	2	20.5
	64QAM	36	20	18.3	18.4	18.5	18.8	0	19.2	19.7	19.9	20.0	20.0	2	20.5
		36	39	18.3	18.3	18.6	18.8	0	19.2	19.8	19.9	20.0	20.0	2	20.5
		75	0	18.3	18.4	18.6	18.7	0	19.2	19.8	19.9	20.0	20.0	2	20.5
	256QAM	1	0	18.0	17.8	18.8	18.5	0	19.2	19.2	19.1	19.9	19.6	2	20.5
		1	37	18.0	17.9	18.9	18.5	0	19.2	19.2	19.1	19.9	19.6	2	20.5
		1	74	18.0	18.0	19.0	18.6	0	19.2	19.3	19.2	20.0	19.7	2	20.5
		36	0	18.0	18.2	18.5	18.5	0	19.2	18.4	18.7	18.7	18.8	3	19.5
		36	20	18.0	18.3	18.5	18.6	0	19.2	18.5	18.7	18.7	18.8	3	19.5
		36	39	18.0	18.3	18.6	18.6	0	19.2	18.4	18.7	18.8	18.8	3	19.5
15 MHz	256QAM	75	0	18.1	18.2	18.5	18.6	0	19.2	18.5	18.6	18.7	18.9	3	19.5
		1	0	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.5	5	17.5
		1	37	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.5	5	17.5
		1	74	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.5	5	17.5
		36	0	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.5	5	17.5
		36	20	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.6	5	17.5
	256QAM	36	39	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.8	16.6	5	17.5
		75	0	16.5	16.3	17.3	17.0	1.7	17.5	16.3	16.1	16.9	16.6	5	17.5

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					MPR	Tune-up Limit	Power Mode B (dBm)					MPR	Tune-up Limit		
				55290	55757	56223	56690	55290			55757	56223	56690						
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz	3555 MHz			3601.7 MHz	3648.3 MHz	3695 MHz						
10 MHz	QPSK	1	0	18.3	18.3	18.7	18.8	0	19.2	21.7	21.9	22.0	22.0	0	22.5				
		1	25	18.3	18.3	18.7	18.7	0	19.2	21.7	21.8	22.0	21.9	0	22.5				
		1	49	18.2	18.4	18.7	18.8	0	19.2	21.7	21.9	22.0	22.0	0	22.5				
		25	0	18.3	18.4	18.7	18.9	0	19.2	20.8	21.0	21.1	21.1	1	21.5				
		25	12	18.4	18.5	18.8	18.9	0	19.2	20.9	21.1	21.2	21.1	1	21.5				
		25	25	18.4	18.5	18.9	18.9	0	19.2	20.9	21.1	21.2	21.1	1	21.5				
	16QAM	50	0	18.4	18.5	18.8	18.9	0	19.2	20.9	21.1	21.2	21.1	1	21.5				
		1	0	18.4	18.4	18.7	19.0	0	19.2	20.9	20.9	21.1	21.1	1	21.5				
		1	25	18.4	18.3	18.7	18.9	0	19.2	20.8	20.9	21.0	21.1	1	21.5				
		1	49	18.4	18.4	18.8	18.9	0	19.2	20.9	21.0	21.0	21.1	1	21.5				
		25	0	18.4	18.4	18.8	18.9	0	19.2	19.8	20.0	20.1	20.1	2	20.5				
		25	12	18.4	18.5	18.8	18.9	0	19.2	19.9	20.1	20.1	20.1	2	20.5				
	64QAM	25	25	18.4	18.5	18.9	18.9	0	19.2	19.9	20.1	20.1	20.1	2	20.5				
		50	0	18.4	18.5	18.8	18.9	0	19.2	19.9	20.1	20.2	20.1	2	20.5				
		1	0	18.4	17.9	19.0	19.0	0	19.2	19.6	19.3	20.0	19.9	2	20.5				
		1	25	18.4	18.0	19.0	18.9	0	19.2	19.6	19.3	20.0	19.9	2	20.5				
		1	49	18.4	18.1	19.1	19.0	0	19.2	19.6	19.2	20.1	20.0	2	20.5				
		25	0	18.1	18.3	18.5	18.7	0	19.2	18.5	18.8	18.8	18.9	3	19.5				
	256QAM	25	12	18.2	18.4	18.6	18.7	0	19.2	18.6	18.8	18.8	18.9	3	19.5				
		25	25	18.1	18.4	18.7	18.7	0	19.2	18.5	18.8	18.9	18.9	3	19.5				
		50	0	18.2	18.4	18.6	18.7	0	19.2	18.6	18.8	18.8	18.9	3	19.5				
		1	0	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		1	25	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		1	49	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		25	0	16.9	16.5	17.4	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		25	12	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		25	25	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		50	0	16.9	16.5	17.5	17.5	1.7	17.5	16.6	16.2	17.0	16.9	5	17.5				
		BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					MPR	Tune-up Limit	Power Mode B (dBm)					MPR	Tune-up Limit
		55265	55748	56232	56715	55265	55748	56232	56715										
3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz	3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz												
5 MHz	QPSK	1	0	18.7	18.5	18.7	18.8	0	19.2	21.7	21.9	22.1	22.0	0	22.5				
		1	12	18.5	18.3	18.7	18.5	0	19.2	21.7	21.7	22.0	21.9	0	22.5				
		1	24	18.7	18.5	18.8	18.8	0	19.2	21.8	21.9	22.1	22.0	0	22.5				
		12	0	18.7	18.5	18.8	18.9	0	19.2	20.8	21.1	21.1	21.1	1	21.5				
		12	7	18.8	18.5	18.9	18.9	0	19.2	20.9	21.1	21.2	21.1	1	21.5				
		12	13	18.8	18.5	18.8	18.9	0	19.2	20.8	21.1	21.1	21.1	1	21.5				
	16QAM	25	0	18.8	18.5	18.8	18.9	0	19.2	20.8	21.1	21.1	21.1	1	21.5				
		1	0	18.7	18.4	18.9	18.8	0	19.2	20.9	20.9	21.1	21.2	1	21.5				
		1	12	18.6	18.4	18.8	18.6	0	19.2	20.8	20.8	21.0	21.0	1	21.5				
		1	24	18.7	18.4	19.0	18.8	0	19.2	20.9	21.0	21.1	21.2	1	21.5				
		12	0	18.8	18.4	18.8	18.9	0	19.2	20.0	20.0	20.0	20.2	2	20.5				
		12	7	18.7	18.4	18.9	18.9	0	19.2	19.9	20.1	20.1	20.2	2	20.5				
	64QAM	12	13	18.8	18.4	18.9	18.8	0	19.2	19.8	20.1	20.1	20.1	2	20.5				
		25	0	18.7	18.5	18.8	18.9	0	19.2	19.9	20.1	20.1	20.1	2	20.5				
		1	0	18.1	18.9	19.0	18.6	0	19.2	19.4	20.2	20.0	19.6	2	20.5				
		1	12	18.1	18.9	19.0	18.6	0	19.2	19.4	20.2	20.0	19.6	2	20.5				
		1	24	18.1	19.0	19.1	18.6	0	19.2	19.4	20.3	20.0	19.6	2	20.5				
		12	0	18.1	18.6	18.5	18.7	0	19.2	18.6	18.9	18.9	19.0	3	19.5				
	256QAM	12	7	18.2	18.5	18.6	18.7	0	19.2	18.6	19.0	18.9	18.9	3	19.5				
		12	13	18.1	18.4	18.6	18.8	0	19.2	18.6	18.8	18.9	19.0	3	19.5				
		25	0	18.2	18.2	18.5	18.7	0	19.2	18.6	18.7	18.8	19.0	3	19.5				
		1	0	16.6	17.4	17.5	17.1	1.7	17.5	16.4	17.2	17.1	16.7	5	17.5				
		1	12	16.6	17.4	17.5	17.1	1.7	17.5	16.4	17.2	17.1	16.8	5	17.5				
		1	24	16.6	17.4	17.5	17.1	1.7	17.5	16.4	17.2	17.1	16.7	5	17.5				
12		0	16.6	17.4	17.5	17.1	1.7	17.5	16.4	17.2	17.1	16.8	5	17.5					
12		7	16.6	17.4	17.5	17.1	1.7	17.5	16.4	17.2	17.1	16.7	5	17.5					
12		13	16.6	17.4	17.5	17.1	1.7	17.5	16.3	17.2	17.1	16.7	5	17.5					
25		0	16.6	17.4	17.5	17.1	1.7	17.5	16.3	17.2	17.1	16.7	5	17.5					

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

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	24.2	24.2	24.2	0	24.3	20.8	20.8	20.8	0	21.5
		1	49	24.3	24.2	24.2	0	24.3	20.9	20.9	20.9	0	21.5
		1	99	24.3	24.2	24.1	0	24.3	20.9	20.8	20.8	0	21.5
		50	0	24.3	24.2	24.2	0	24.3	21.0	20.8	20.9	0	21.5
		50	24	24.3	24.3	24.3	0	24.3	21.1	20.9	21.0	0	21.5
	16QAM	50	50	24.3	24.3	24.3	0	24.3	21.1	20.9	20.9	0	21.5
		100	0	24.2	24.3	24.2	0	24.3	21.0	21.0	20.9	0	21.5
		1	0	24.2	24.1	24.3	0	24.3	21.4	21.4	21.2	0	21.5
		1	49	24.1	24.1	24.3	0	24.3	21.4	21.4	21.2	0	21.5
		1	99	24.3	24.0	24.2	0	24.3	21.4	21.3	21.2	0	21.5
	64QAM	50	0	23.6	23.6	23.6	0.6	23.7	20.9	20.9	20.9	0	21.5
		50	24	23.7	23.7	23.7	0.6	23.7	21.0	21.0	21.0	0	21.5
		50	50	23.7	23.6	23.6	0.6	23.7	20.9	20.9	20.9	0	21.5
		100	0	23.6	23.6	23.7	0.6	23.7	21.0	20.9	20.9	0	21.5
		1	0	22.3	22.4	22.7	0.6	23.7	20.8	20.9	20.9	0	21.5
	256QAM	1	49	22.4	22.4	22.8	0.6	23.7	20.8	20.9	20.9	0	21.5
		1	99	22.4	22.4	22.7	0.6	23.7	20.9	20.9	20.9	0	21.5
		50	0	21.1	21.1	21.1	1.6	22.7	20.9	20.8	20.8	0	21.5
		50	24	21.2	21.1	21.2	1.6	22.7	20.9	20.9	20.9	0	21.5
		50	50	21.2	21.1	21.2	1.6	22.7	20.8	20.9	20.8	0	21.5
	16QAM	100	0	21.2	21.1	21.1	1.6	22.7	20.9	20.9	20.9	0	21.5
		1	0	19.0	19.0	19.2	3.6	20.7	20.2	20.0	19.9	0.8	20.7
		1	49	19.0	19.0	19.3	3.6	20.7	20.3	20.1	20.0	0.8	20.7
		1	99	19.1	19.0	19.3	3.6	20.7	20.3	20.1	20.0	0.8	20.7
		50	0	19.1	19.1	19.1	3.6	20.7	20.1	20.0	20.0	0.8	20.7
	256QAM	50	24	19.2	19.2	19.1	3.6	20.7	20.1	20.1	20.2	0.8	20.7
		50	50	19.2	19.2	19.2	3.6	20.7	20.1	20.0	20.1	0.8	20.7
		100	0	19.2	19.2	19.1	3.6	20.7	20.1	20.1	20.1	0.8	20.7
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	24.2	24.1	24.3	0	24.3	20.8	20.8	20.8	0	21.5
		1	37	24.3	24.2	24.3	0	24.3	20.8	20.8	20.8	0	21.5
		1	74	24.3	24.1	24.2	0	24.3	20.9	20.8	20.8	0	21.5
		36	0	24.3	24.2	24.3	0	24.3	20.8	20.9	20.9	0	21.5
		36	20	24.3	24.3	24.3	0	24.3	21.0	20.9	21.0	0	21.5
	16QAM	36	39	24.2	24.3	24.2	0	24.3	20.9	20.8	21.0	0	21.5
		75	0	24.3	24.3	24.2	0	24.3	20.9	20.8	20.9	0	21.5
		1	0	24.2	24.2	24.1	0	24.3	21.2	21.1	20.8	0	21.5
		1	37	24.2	24.2	24.2	0	24.3	21.3	21.1	20.8	0	21.5
		1	74	24.1	24.2	24.3	0	24.3	21.3	21.2	20.8	0	21.5
	64QAM	36	0	23.6	23.6	23.7	0.6	23.7	20.9	20.9	21.0	0	21.5
		36	20	23.6	23.7	23.7	0.6	23.7	21.0	20.9	21.0	0	21.5
		36	39	23.7	23.7	23.7	0.6	23.7	21.0	20.9	21.0	0	21.5
		75	0	23.6	23.7	23.7	0.6	23.7	21.0	20.9	21.0	0	21.5
		1	0	22.1	22.3	22.4	0.6	23.7	20.8	20.9	20.9	0	21.5
	256QAM	1	37	22.3	22.4	22.5	0.6	23.7	20.9	20.8	20.9	0	21.5
		1	74	22.3	22.4	22.5	0.6	23.7	20.8	20.9	20.9	0	21.5
		36	0	21.1	21.1	21.1	1.6	22.7	20.8	20.9	20.9	0	21.5
		36	20	21.3	21.2	21.2	1.6	22.7	20.8	20.8	20.8	0	21.5
		36	39	21.2	21.1	21.2	1.6	22.7	20.9	20.8	20.8	0	21.5
	16QAM	75	0	21.2	21.1	21.2	1.6	22.7	20.8	20.9	20.9	0	21.5
		1	0	18.8	19.4	19.5	3.6	20.7	19.2	19.9	19.9	0.8	20.7
		1	37	19.0	19.5	19.5	3.6	20.7	19.4	19.9	20.0	0.8	20.7
		1	74	19.0	19.5	19.6	3.6	20.7	19.4	19.9	20.1	0.8	20.7
		36	0	19.1	19.1	19.1	3.6	20.7	19.6	19.5	19.6	0.8	20.7
	256QAM	36	20	19.2	19.2	19.3	3.6	20.7	19.6	19.7	19.7	0.8	20.7
		36	39	19.2	19.2	19.2	3.6	20.7	19.6	19.6	19.6	0.8	20.7
		75	0	19.2	19.2	19.2	3.6	20.7	19.6	19.6	19.6	0.8	20.7

LTE Band 66 Measured Results (ANT1) (continued)

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	24.2	24.3	24.3	0	24.3	20.9	20.8	20.9	0	21.5
		1	25	24.3	24.3	24.3	0	24.3	20.9	20.8	20.9	0	21.5
		1	49	24.2	24.2	24.2	0	24.3	20.9	20.8	20.9	0	21.5
		25	0	24.3	24.3	24.3	0	24.3	21.0	20.9	21.0	0	21.5
		25	12	24.3	24.3	24.3	0	24.3	21.0	20.9	21.0	0	21.5
		25	25	24.3	24.2	24.3	0	24.3	20.9	20.9	21.0	0	21.5
	16QAM	0	0	24.3	24.3	24.2	0	24.3	21.0	20.9	21.0	0	21.5
		1	0	24.2	24.2	24.2	0	24.3	21.3	20.9	20.9	0	21.5
		1	25	24.3	24.2	24.2	0	24.3	21.3	20.8	20.9	0	21.5
		1	49	24.3	24.2	24.1	0	24.3	21.3	20.8	21.0	0	21.5
		25	0	23.5	23.7	23.5	0.6	23.7	21.0	21.0	21.0	0	21.5
		25	12	23.6	23.7	23.5	0.6	23.7	21.1	21.0	21.1	0	21.5
	64QAM	25	25	23.6	23.7	23.6	0.6	23.7	21.0	21.0	21.0	0	21.5
		50	0	23.7	23.6	23.7	0.6	23.7	21.0	20.9	21.0	0	21.5
		1	0	22.4	22.5	22.3	0.6	23.7	20.9	20.8	20.8	0	21.5
		1	25	22.4	22.5	22.3	0.6	23.7	20.9	20.9	20.8	0	21.5
		1	49	22.4	22.5	22.3	0.6	23.7	20.9	20.9	20.9	0	21.5
		25	0	21.3	21.2	21.3	1.6	22.7	20.8	20.8	20.9	0	21.5
	256QAM	25	12	21.3	21.3	21.3	1.6	22.7	20.9	20.9	20.8	0	21.5
		25	25	21.2	21.2	21.3	1.6	22.7	20.9	20.9	20.9	0	21.5
		50	0	21.2	21.2	21.3	1.6	22.7	20.9	20.9	20.8	0	21.5
		1	0	19.6	19.7	18.9	3.6	20.7	20.1	20.2	19.4	0.8	20.7
		1	25	19.8	19.7	19.0	3.6	20.7	20.2	20.1	19.5	0.8	20.7
		1	49	19.7	19.7	19.0	3.6	20.7	20.2	20.2	19.4	0.8	20.7
5 MHz	QPSK	25	0	19.3	19.3	19.2	3.6	20.7	19.8	19.7	19.6	0.8	20.7
		25	12	19.3	19.3	19.3	3.6	20.7	19.7	19.8	19.7	0.8	20.7
		25	25	19.3	19.2	19.3	3.6	20.7	19.7	19.7	19.8	0.8	20.7
		50	0	19.3	19.3	19.2	3.6	20.7	19.7	19.7	19.6	0.8	20.7
	16QAM	1	0	24.1	24.1	24.2	0	24.3	21.4	21.0	21.2	0	21.5
		1	12	24.2	24.2	24.2	0	24.3	21.5	21.0	21.1	0	21.5
		1	24	24.2	24.1	24.2	0	24.3	21.5	21.0	21.1	0	21.5
		12	0	23.6	23.5	23.7	0.6	23.7	21.1	21.0	21.1	0	21.5
		12	7	23.6	23.6	23.5	0.6	23.7	21.2	21.0	21.1	0	21.5
		12	13	23.6	23.5	23.6	0.6	23.7	21.1	21.0	21.1	0	21.5
	64QAM	25	0	23.6	23.7	23.6	0.6	23.7	21.0	20.9	21.1	0	21.5
		1	0	22.0	22.1	22.7	0.6	23.7	20.8	20.9	20.8	0	21.5
		1	12	22.2	22.2	22.8	0.6	23.7	20.9	20.9	20.9	0	21.5
		1	24	22.1	22.1	22.7	0.6	23.7	20.9	20.9	20.9	0	21.5
		12	0	21.2	21.2	21.2	1.6	22.7	20.8	20.8	20.9	0	21.5
		12	7	21.3	21.2	21.3	1.6	22.7	20.9	20.9	20.8	0	21.5
	256QAM	12	13	21.2	21.2	21.2	1.6	22.7	20.8	20.9	20.9	0	21.5
		25	0	21.2	21.2	21.2	1.6	22.7	20.8	20.9	20.9	0	21.5
		1	0	18.9	18.9	19.4	3.6	20.7	19.4	19.3	19.9	0.8	20.7
		1	12	19.0	19.0	19.4	3.6	20.7	19.5	19.5	19.9	0.8	20.7
		1	24	18.9	18.9	19.4	3.6	20.7	19.4	19.4	19.8	0.8	20.7
		12	0	19.2	19.2	19.3	3.6	20.7	19.7	19.7	19.7	0.8	20.7
5 MHz	QPSK	12	7	19.3	19.2	19.3	3.6	20.7	19.7	19.7	19.8	0.8	20.7
		12	13	19.2	19.2	19.3	3.6	20.7	19.7	19.7	19.8	0.8	20.7
		25	0	19.2	19.3	19.3	3.6	20.7	19.7	19.8	19.8	0.8	20.7
	16QAM	1	0	24.1	24.1	24.2	0	24.3	21.4	21.0	21.2	0	21.5
		1	12	24.2	24.2	24.2	0	24.3	21.5	21.0	21.1	0	21.5
		1	24	24.2	24.1	24.2	0	24.3	21.5	21.0	21.1	0	21.5
	64QAM	12	0	23.6	23.5	23.7	0.6	23.7	21.1	21.0	21.1	0	21.5
		12	7	23.6	23.6	23.5	0.6	23.7	21.2	21.0	21.1	0	21.5
		12	13	23.6	23.5	23.6	0.6	23.7	21.1	21.0	21.1	0	21.5
	256QAM	25	0	23.6	23.7	23.6	0.6	23.7	21.0	20.9	21.1	0	21.5
		1	0	22.0	22.1	22.7	0.6	23.7	20.8	20.9	20.8	0	21.5
		1	12	22.2	22.2	22.8	0.6	23.7	20.9	20.9	20.9	0	21.5
		1	24	22.1	22.1	22.7	0.6	23.7	20.9	20.9	20.9	0	21.5
		12	0	21.2	21.2	21.2	1.6	22.7	20.8	20.8	20.9	0	21.5
		12	7	21.3	21.2	21.3	1.6	22.7	20.9	20.9	20.8	0	21.5
	256QAM	12	13	21.2	21.2	21.2	1.6	22.7	20.8	20.9	20.9	0	21.5
		25	0	21.2	21.2	21.2	1.6	22.7	20.8	20.9	20.9	0	21.5
		1	0	18.9	18.9	19.4	3.6	20.7	19.4	19.3	19.9	0.8	20.7
		1	12	19.0	19.0	19.4	3.6	20.7	19.5	19.5	19.9	0.8	20.7
		1	24	18.9	18.9	19.4	3.6	20.7	19.4	19.4	19.8	0.8	20.7
		12	0	19.2	19.2	19.3	3.6	20.7	19.7	19.7	19.7	0.8	20.7

LTE Band 66 Measured Results (ANT1) (continued)

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	24.1	24.1	24.2	0	24.3	21.0	20.8	20.9	0	21.5
		1	8	24.1	24.2	24.0	0	24.3	21.0	20.9	20.8	0	21.5
		1	14	24.1	24.1	24.1	0	24.3	20.9	20.8	20.9	0	21.5
		8	0	23.1	23.2	23.2	0	24.3	21.0	20.9	21.0	0	21.5
		8	4	23.2	23.2	23.3	0	24.3	21.0	21.0	21.0	0	21.5
		8	7	23.2	23.2	23.3	0	24.3	21.0	20.9	21.0	0	21.5
	16QAM	15	0	23.1	23.1	23.2	0	24.3	21.0	20.9	21.0	0	21.5
		1	0	23.1	23.1	23.3	0	24.3	21.4	20.9	20.9	0	21.5
		1	8	23.2	23.2	23.3	0	24.3	21.3	21.0	20.8	0	21.5
		1	14	23.1	23.1	23.2	0	24.3	21.4	20.8	20.8	0	21.5
		8	0	22.2	22.2	22.3	0.6	23.7	21.0	21.0	21.1	0	21.5
		8	4	22.2	22.2	22.3	0.6	23.7	21.1	21.0	21.1	0	21.5
	64QAM	8	7	22.2	22.3	22.3	0.6	23.7	21.1	21.0	21.2	0	21.5
		15	0	22.1	22.2	22.2	0.6	23.7	21.0	20.9	21.0	0	21.5
		1	0	23.0	22.6	22.7	0.6	23.7	20.9	20.8	20.9	0	21.5
		1	8	22.8	22.8	22.7	0.6	23.7	20.8	20.9	20.9	0	21.5
		1	14	22.6	22.6	22.7	0.6	23.7	20.8	20.9	20.9	0	21.5
		8	0	21.2	21.2	21.3	1.6	22.7	20.9	20.9	20.9	0	21.5
	256QAM	8	4	21.3	21.3	21.4	1.6	22.7	20.9	20.9	20.9	0	21.5
		8	7	21.3	21.3	21.4	1.6	22.7	20.9	20.8	20.8	0	21.5
		15	0	21.2	21.2	21.3	1.6	22.7	20.9	20.9	20.8	0	21.5
		1	0	19.5	19.6	19.7	3.6	20.7	19.9	20.1	20.2	0.8	20.7
		1	8	19.6	19.6	19.7	3.6	20.7	20.1	20.1	20.1	0.8	20.7
		1	14	19.6	19.6	19.6	3.6	20.7	20.0	20.0	20.1	0.8	20.7
1.4 MHz	QPSK	8	0	19.3	19.3	19.3	3.6	20.7	19.7	19.7	19.8	0.8	20.7
		8	4	19.3	19.3	19.4	3.6	20.7	19.8	19.8	19.8	0.8	20.7
		8	7	19.3	19.3	19.4	3.6	20.7	19.8	19.7	19.8	0.8	20.7
		15	0	19.2	19.3	19.3	3.6	20.7	19.7	19.7	19.8	0.8	20.7
	16QAM	1	0	24.0	24.0	24.0	0	24.3	20.8	20.8	20.9	0	21.5
		1	3	24.0	24.0	24.0	0	24.3	20.8	20.8	20.8	0	21.5
		1	5	24.0	24.0	24.0	0	24.3	20.8	20.8	20.9	0	21.5
		3	0	24.0	23.9	24.0	0	24.3	20.8	20.7	20.9	0	21.5
		3	1	24.0	24.0	24.0	0	24.3	20.8	20.8	20.9	0	21.5
		3	3	24.1	24.0	24.0	0	24.3	20.8	20.8	20.9	0	21.5
	64QAM	6	0	23.1	23.0	23.1	0	24.3	20.9	20.8	20.9	0	21.5
		1	0	23.1	23.1	23.1	0	24.3	20.9	20.9	21.3	0	21.5
		1	3	23.1	23.1	23.2	0	24.3	21.0	20.9	21.4	0	21.5
		1	5	23.1	23.1	23.1	0	24.3	21.0	20.9	21.3	0	21.5
		3	0	23.2	23.2	23.3	0	24.3	21.1	20.9	21.1	0	21.5
		3	1	23.3	23.4	23.4	0	24.3	21.1	20.9	21.2	0	21.5
	256QAM	3	3	23.3	23.3	23.4	0	24.3	21.1	20.9	21.2	0	21.5
		6	0	22.2	22.3	22.3	0.6	23.7	21.1	21.0	20.9	0	21.5
		1	0	22.2	22.4	22.7	0.6	23.7	20.9	20.8	20.8	0	21.5
		1	3	22.2	22.4	22.8	0.6	23.7	20.9	20.8	20.9	0	21.5
		1	5	22.1	22.4	22.7	0.6	23.7	20.8	20.9	20.9	0	21.5
		3	0	22.2	22.1	22.4	0.6	23.7	20.8	20.9	20.9	0	21.5
1.4 MHz	64QAM	3	1	22.3	22.0	22.4	0.6	23.7	20.9	20.8	20.9	0	21.5
		3	3	22.3	22.0	22.4	0.6	23.7	20.9	20.8	20.8	0	21.5
		6	0	21.4	21.2	21.1	1.6	22.7	20.9	20.9	20.9	0	21.5
	256QAM	1	0	18.9	19.1	19.2	3.6	20.7	19.3	19.5	19.7	0.8	20.7
		1	3	18.9	19.2	19.4	3.6	20.7	19.4	19.6	19.8	0.8	20.7
		1	5	18.9	19.1	19.2	3.6	20.7	19.3	19.5	19.7	0.8	20.7
		3	0	19.0	19.2	19.1	3.6	20.7	19.4	19.7	19.5	0.8	20.7
		3	1	19.0	19.2	19.1	3.6	20.7	19.4	19.6	19.5	0.8	20.7
		3	3	19.0	19.1	19.1	3.6	20.7	19.4	19.6	19.5	0.8	20.7
		6	0	19.2	19.1	19.0	3.6	20.7	19.6	19.6	19.5	0.8	20.7

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	17.5	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
		1	49	17.6	17.6	17.6	0	18.2	19.5	19.4	19.5	0	20
		1	99	17.6	17.5	17.5	0	18.2	19.5	19.4	19.4	0	20
		50	0	17.6	17.6	17.6	0	18.2	19.5	19.4	19.4	0	20
		50	24	17.7	17.7	17.7	0	18.2	19.6	19.5	19.6	0	20
	16QAM	50	50	17.6	17.6	17.6	0	18.2	19.5	19.4	19.5	0	20
		100	0	17.6	17.6	17.6	0	18.2	19.5	19.5	19.4	0	20
		1	0	18.0	18.1	18.1	0	18.2	19.7	19.7	19.7	0	20
		1	49	17.9	18.1	18.1	0	18.2	19.6	19.7	19.7	0	20
		1	99	17.9	18.2	18.0	0	18.2	19.7	19.7	19.6	0	20
	64QAM	50	0	17.6	17.6	17.6	0	18.2	19.3	19.3	19.3	0	20
		50	24	17.6	17.6	17.6	0	18.2	19.3	19.3	19.3	0	20
		50	50	17.6	17.6	17.7	0	18.2	19.3	19.3	19.3	0	20
		100	0	17.6	17.6	17.6	0	18.2	19.3	19.3	19.3	0	20
		1	0	17.5	17.5	17.6	0	18.2	19.3	19.3	19.3	0	20
	256QAM	1	49	17.5	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
		1	99	17.6	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
		50	0	17.5	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
		50	24	17.5	17.6	17.6	0	18.2	19.3	19.4	19.3	0	20
		50	50	17.6	17.6	17.5	0	18.2	19.4	19.4	19.3	0	20
15 MHz	QPSK	100	0	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		1	0	17.4	17.4	17.6	0	18.2	19.2	19.3	19.2	0	20
		1	49	17.5	17.5	17.5	0	18.2	19.2	19.2	19.2	0	20
		1	99	17.5	17.5	17.5	0	18.2	19.2	19.3	19.3	0	20
		50	0	17.4	17.5	17.5	0	18.2	19.3	19.3	19.2	0	20
	16QAM	50	24	17.4	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		50	50	17.6	17.5	17.4	0	18.2	19.3	19.3	19.2	0	20
		100	0	17.4	17.5	17.4	0	18.2	19.2	19.4	19.3	0	20
	64QAM	1	0	17.6	17.4	17.6	0	18.2	19.5	19.3	19.5	0	20
		1	37	17.6	17.4	17.6	0	18.2	19.5	19.4	19.4	0	20
		1	74	17.6	17.4	17.5	0	18.2	19.5	19.4	19.4	0	20
		36	0	17.7	17.6	17.6	0	18.2	19.6	19.5	19.5	0	20
		36	20	17.7	17.6	17.7	0	18.2	19.6	19.5	19.6	0	20
	256QAM	36	39	17.7	17.6	17.7	0	18.2	19.5	19.5	19.5	0	20
		75	0	17.6	17.6	17.7	0	18.2	19.5	19.4	19.5	0	20
	16QAM	1	0	18.0	17.4	18.1	0	18.2	19.7	19.3	19.7	0	20
		1	37	18.2	17.4	18.1	0	18.2	19.7	19.3	19.7	0	20
		1	74	18.0	17.4	18.0	0	18.2	19.7	19.3	19.6	0	20
		36	0	17.6	17.6	17.6	0	18.2	19.5	19.4	19.5	0	20
		36	20	17.6	17.6	17.7	0	18.2	19.5	19.5	19.6	0	20
	64QAM	36	39	17.6	17.5	17.7	0	18.2	19.5	19.4	19.6	0	20
		75	0	17.6	17.6	17.7	0	18.2	19.5	19.4	19.5	0	20
		1	0	17.5	17.5	17.6	0	18.2	19.3	19.3	19.3	0	20
		1	37	17.6	17.5	17.5	0	18.2	19.3	19.3	19.4	0	20
		1	74	17.6	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
	256QAM	36	0	17.6	17.6	17.5	0	18.2	19.3	19.4	19.3	0	20
		36	20	17.5	17.5	17.6	0	18.2	19.4	19.3	19.4	0	20
		36	39	17.5	17.6	17.6	0	18.2	19.4	19.3	19.4	0	20
		75	0	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		1	0	17.4	17.5	17.6	0	18.2	19.2	19.3	19.2	0	20

LTE Band 66 Measured Results (ANT2) (continued)

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	17.7	17.5	17.7	0	18.2	19.6	19.5	19.6	0	20
		1	25	17.6	17.6	17.7	0	18.2	19.5	19.4	19.6	0	20
		1	49	17.6	17.5	17.7	0	18.2	19.5	19.4	19.5	0	20
		25	0	17.7	17.7	17.7	0	18.2	19.6	19.6	19.6	0	20
		25	12	17.7	17.7	17.7	0	18.2	19.6	19.5	19.6	0	20
		25	25	17.7	17.7	17.7	0	18.2	19.6	19.5	19.6	0	20
	16QAM	50	0	17.7	17.7	17.7	0	18.2	19.6	19.5	19.6	0	20
		1	0	17.8	17.7	18.2	0	18.2	19.7	19.5	19.7	0	20
		1	25	17.7	17.7	18.1	0	18.2	19.7	19.4	19.7	0	20
		1	49	17.7	17.7	18.1	0	18.2	19.6	19.5	19.7	0	20
		25	0	17.9	17.7	17.7	0	18.2	19.7	19.6	19.6	0	20
		25	12	17.9	17.7	17.7	0	18.2	19.7	19.6	19.6	0	20
	64QAM	25	25	17.8	17.7	17.8	0	18.2	19.7	19.5	19.7	0	20
		50	0	17.8	17.7	17.7	0	18.2	19.6	19.5	19.6	0	20
		1	0	17.5	17.5	17.5	0	18.2	19.3	19.3	19.4	0	20
		1	25	17.6	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		1	49	17.5	17.5	17.6	0	18.2	19.4	19.3	19.4	0	20
		25	0	17.5	17.5	17.6	0	18.2	19.4	19.4	19.4	0	20
	256QAM	25	12	17.5	17.5	17.6	0	18.2	19.3	19.3	19.3	0	20
		25	25	17.5	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
		50	0	17.5	17.6	17.6	0	18.2	19.3	19.4	19.3	0	20
		1	0	17.5	17.4	17.4	0	18.2	19.3	19.2	19.4	0	20
		1	25	17.5	17.5	17.5	0	18.2	19.3	19.3	19.2	0	20
		1	49	17.4	17.4	17.6	0	18.2	19.4	19.2	19.4	0	20
5 MHz	QPSK	25	0	17.5	17.4	17.5	0	18.2	19.3	19.3	19.3	0	20
		25	12	17.4	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		25	25	17.4	17.6	17.5	0	18.2	19.3	19.2	19.3	0	20
		50	0	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
	16QAM	1	0	17.9	17.8	18.1	0	18.2	19.7	19.7	19.7	0	20
		1	12	17.9	17.8	18.1	0	18.2	19.7	19.7	19.7	0	20
		1	24	17.8	17.8	18.1	0	18.2	19.7	19.7	19.7	0	20
		12	0	17.9	17.8	17.9	0	18.2	19.7	19.6	19.7	0	20
		12	7	17.8	17.8	18.0	0	18.2	19.7	19.7	19.7	0	20
		12	13	17.8	17.7	17.9	0	18.2	19.7	19.6	19.7	0	20
	64QAM	25	0	17.7	17.7	17.8	0	18.2	19.6	19.6	19.6	0	20
		1	0	17.5	17.5	17.6	0	18.2	19.3	19.4	19.4	0	20
		1	12	17.5	17.5	17.5	0	18.2	19.3	19.3	19.4	0	20
		1	24	17.6	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		12	0	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		12	7	17.5	17.5	17.6	0	18.2	19.3	19.3	19.4	0	20
	256QAM	12	13	17.5	17.5	17.5	0	18.2	19.3	19.4	19.4	0	20
		25	0	17.6	17.5	17.5	0	18.2	19.4	19.3	19.3	0	20
		1	0	17.4	17.4	17.5	0	18.2	19.2	19.3	19.3	0	20
		1	12	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		1	24	17.6	17.4	17.5	0	18.2	19.2	19.3	19.3	0	20
		12	0	17.5	17.4	17.4	0	18.2	19.2	19.2	19.3	0	20
	256QAM	12	7	17.4	17.5	17.5	0	18.2	19.2	19.2	19.3	0	20
		12	13	17.4	17.4	17.5	0	18.2	19.3	19.3	19.3	0	20
		25	0	17.6	17.5	17.4	0	18.2	19.3	19.3	19.3	0	20

LTE Band 66 Measured Results (ANT2) (continued)

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	17.5	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
		1	8	17.5	17.5	17.5	0	18.2	19.4	19.3	19.3	0	20
		1	14	17.5	17.5	17.6	0	18.2	19.3	19.3	19.4	0	20
		8	0	17.6	17.6	17.5	0	18.2	19.4	19.3	19.3	0	20
		8	4	17.5	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
		8	7	17.5	17.6	17.6	0	18.2	19.4	19.4	19.3	0	20
	16QAM	15	0	17.6	17.5	17.6	0	18.2	19.3	19.4	19.4	0	20
		1	0	17.5	17.5	17.6	0	18.2	19.4	19.3	19.3	0	20
		1	8	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		1	14	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		8	0	17.5	17.5	17.5	0	18.2	19.3	19.4	19.4	0	20
		8	4	17.5	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
	64QAM	8	7	17.6	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		15	0	17.5	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
		1	0	17.5	17.5	17.6	0	18.2	19.4	19.3	19.3	0	20
		1	8	17.5	17.6	17.6	0	18.2	19.3	19.3	19.3	0	20
		1	14	17.5	17.5	17.6	0	18.2	19.3	19.3	19.4	0	20
		8	0	17.6	17.5	17.5	0	18.2	19.3	19.3	19.3	0	20
	256QAM	8	4	17.5	17.5	17.6	0	18.2	19.3	19.3	19.4	0	20
		8	7	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		15	0	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		1	0	17.4	17.5	17.5	0	18.2	19.3	19.2	19.3	0	20
		1	8	17.5	17.5	17.6	0	18.2	19.3	19.2	19.3	0	20
		1	14	17.5	17.4	17.6	0	18.2	19.2	19.3	19.4	0	20
1.4 MHz	QPSK	8	0	17.6	17.5	17.4	0	18.2	19.2	19.3	19.2	0	20
		8	4	17.4	17.4	17.5	0	18.2	19.3	19.3	19.4	0	20
		8	7	17.5	17.4	17.4	0	18.2	19.2	19.4	19.3	0	20
		15	0	17.5	17.5	17.4	0	18.2	19.2	19.3	19.3	0	20
	16QAM	1	0	17.5	17.5	17.5	0	18.2	19.4	19.3	19.3	0	20
		1	3	17.5	17.6	17.5	0	18.2	19.3	19.4	19.4	0	20
		1	5	17.5	17.6	17.5	0	18.2	19.4	19.3	19.4	0	20
		3	0	17.5	17.5	17.5	0	18.2	19.4	19.3	19.3	0	20
		3	1	17.5	17.6	17.5	0	18.2	19.4	19.3	19.3	0	20
		3	3	17.6	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
	64QAM	6	0	17.6	17.5	17.5	0	18.2	19.3	19.4	19.4	0	20
		1	0	17.6	17.5	17.6	0	18.2	19.3	19.3	19.4	0	20
		1	3	17.5	17.6	17.6	0	18.2	19.3	19.4	19.3	0	20
		1	5	17.5	17.6	17.6	0	18.2	19.4	19.3	19.3	0	20
		3	0	17.5	17.5	17.6	0	18.2	19.4	19.4	19.3	0	20
		3	1	17.5	17.5	17.5	0	18.2	19.4	19.3	19.3	0	20
	256QAM	3	3	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		6	0	17.5	17.5	17.5	0	18.2	19.3	19.4	19.4	0	20
		1	0	17.5	17.6	17.5	0	18.2	19.4	19.3	19.4	0	20
		1	3	17.6	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
		1	5	17.5	17.5	17.6	0	18.2	19.3	19.3	19.3	0	20
		3	0	17.6	17.6	17.5	0	18.2	19.3	19.3	19.3	0	20
1.4 MHz	64QAM	3	1	17.5	17.5	17.5	0	18.2	19.3	19.4	19.3	0	20
		3	3	17.5	17.5	17.6	0	18.2	19.3	19.3	19.3	0	20
		6	0	17.5	17.6	17.6	0	18.2	19.3	19.4	19.4	0	20
	256QAM	1	0	17.5	17.5	17.5	0	18.2	19.3	19.2	19.3	0	20
		1	3	17.5	17.5	17.4	0	18.2	19.3	19.3	19.3	0	20
		1	5	17.5	17.4	17.5	0	18.2	19.3	19.3	19.2	0	20
		3	0	17.5	17.5	17.4	0	18.2	19.3	19.3	19.3	0	20
		3	1	17.4	17.5	17.5	0	18.2	19.2	19.3	19.2	0	20
		3	3	17.4	17.5	17.6	0	18.2	19.2	19.2	19.2	0	20
		6	0	17.4	17.5	17.6	0	18.2	19.2	19.3	19.3	0	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	24.7	0	25.7		24.7	0	25.7	
		1	49	24.8	0	25.7		24.8	0	25.7	
		1	99	24.7	0	25.7		24.7	0	25.7	
		50	0	23.8	1	24.7		23.8	1	24.7	
		50	24	23.9	1	24.7		23.9	1	24.7	
		50	50	23.8	1	24.7		23.8	1	24.7	
	16QAM	100	0	23.7	1	24.7		23.7	1	24.7	
		1	0	24.4	1	24.7		24.4	1	24.7	
		1	49	24.3	1	24.7		24.3	1	24.7	
		1	99	24.3	1	24.7		24.3	1	24.7	
		50	0	22.8	2	23.7		22.8	2	23.7	
		50	24	22.8	2	23.7		22.8	2	23.7	
	64QAM	50	50	22.8	2	23.7		22.8	2	23.7	
		100	0	22.8	2	23.7		22.8	2	23.7	
		1	0	22.9	2	23.7		22.9	2	23.7	
		1	49	22.9	2	23.7		22.9	2	23.7	
		1	99	22.9	2	23.7		22.9	2	23.7	
		50	0	21.8	3	22.7		21.8	3	22.7	
	256QAM	50	24	21.9	3	22.7		21.9	3	22.7	
		50	50	21.8	3	22.7		21.8	3	22.7	
		100	0	21.9	3	22.7		21.9	3	22.7	
		1	0	20.6	5	20.7		20.6	5	20.7	
		1	49	20.7	5	20.7		20.7	5	20.7	
		1	99	20.7	5	20.7		20.7	5	20.7	
15 MHz	QPSK	50	0	20.4	5	20.7		20.4	5	20.7	
		50	24	20.5	5	20.7		20.5	5	20.7	
		50	50	20.4	5	20.7		20.4	5	20.7	
		100	0	20.4	5	20.7		20.4	5	20.7	
	16QAM	1	0	24.7	0	25.7		24.7	0	25.7	
		1	37	24.7	0	25.7		24.7	0	25.7	
		1	74	24.7	0	25.7		24.7	0	25.7	
		36	0	23.8	1	24.7		23.8	1	24.7	
		36	20	23.9	1	24.7		23.9	1	24.7	
		36	39	23.8	1	24.7		23.8	1	24.7	
	64QAM	75	0	23.9	1	24.7		23.9	1	24.7	
		1	0	23.7	1	24.7		23.7	1	24.7	
		1	37	23.7	1	24.7		23.7	1	24.7	
		1	74	23.7	1	24.7		23.7	1	24.7	
		36	0	22.8	2	23.7		22.8	2	23.7	
		36	20	22.9	2	23.7		22.9	2	23.7	
	256QAM	36	39	22.8	2	23.7		22.8	2	23.7	
		75	0	22.9	2	23.7		22.9	2	23.7	
		1	0	22.9	2	23.7		22.9	2	23.7	
		1	37	22.9	2	23.7		22.9	2	23.7	
		1	74	22.8	2	23.7		22.8	2	23.7	
		36	0	21.8	3	22.7		21.8	3	22.7	
	QPSK	36	20	21.8	3	22.7		21.8	3	22.7	
		36	39	21.9	3	22.7		21.9	3	22.7	
		75	0	21.9	3	22.7		21.9	3	22.7	
		1	0	20.6	5	20.7		20.6	5	20.7	
		1	37	20.6	5	20.7		20.6	5	20.7	
		1	74	20.7	5	20.7		20.7	5	20.7	
	16QAM	36	0	20.5	5	20.7		20.5	5	20.7	
		36	20	20.4	5	20.7		20.4	5	20.7	
		36	39	20.4	5	20.7		20.4	5	20.7	
		75	0	20.4	5	20.7		20.4	5	20.7	
		1	0	20.4	5	20.7		20.4	5	20.7	
		1	37	20.6	5	20.7		20.6	5	20.7	
	64QAM	1	74	20.7	5	20.7		20.7	5	20.7	
		36	0	20.5	5	20.7		20.5	5	20.7	
		36	20	20.4	5	20.7		20.4	5	20.7	
		36	39	20.4	5	20.7		20.4	5	20.7	
		75	0	20.4	5	20.7		20.4	5	20.7	
		1	0	20.4	5	20.7		20.4	5	20.7	

LTE Band 71 Measured Results (ANT1) (continued)

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	24.9	24.9	24.9	0	25.7	24.9	24.9	24.9	0	25.7
		1	25	24.8	24.8	24.9	0	25.7	24.8	24.8	24.9	0	25.7
		1	49	24.9	24.8	24.8	0	25.7	24.9	24.8	24.8	0	25.7
		25	0	23.9	23.9	23.9	1	24.7	23.9	23.9	23.9	1	24.7
		25	12	24.0	23.9	23.9	1	24.7	24.0	23.9	23.9	1	24.7
		25	25	23.9	23.9	23.9	1	24.7	23.9	23.9	23.9	1	24.7
	16QAM	0	0	24.0	23.9	23.9	1	24.7	24.0	23.9	23.9	1	24.7
		1	25	23.9	23.8	24.2	1	24.7	23.9	23.8	24.2	1	24.7
		1	49	23.9	23.8	24.2	1	24.7	23.9	23.8	24.2	1	24.7
		25	0	23.0	22.9	22.9	2	23.7	23.0	22.9	22.9	2	23.7
		25	12	23.1	23.0	22.9	2	23.7	23.1	23.0	22.9	2	23.7
		25	25	23.1	23.0	22.9	2	23.7	23.1	23.0	22.9	2	23.7
	64QAM	0	0	23.0	22.9	22.9	2	23.7	23.0	22.9	22.9	2	23.7
		1	0	22.9	22.9	22.9	2	23.7	22.9	22.9	22.9	2	23.7
		1	25	22.9	22.9	22.9	2	23.7	22.9	22.9	22.9	2	23.7
		1	49	22.9	22.8	22.9	2	23.7	22.9	22.8	22.9	2	23.7
		25	0	21.9	21.9	21.9	3	22.7	21.9	21.9	21.9	3	22.7
		25	12	21.9	21.9	21.9	3	22.7	21.9	21.9	21.9	3	22.7
	256QAM	25	25	21.9	21.9	21.9	3	22.7	21.9	21.9	21.9	3	22.7
		0	0	21.9	21.9	21.9	3	22.7	21.9	21.9	21.9	3	22.7
		1	0	20.7	20.2	20.5	5	20.7	20.7	20.2	20.5	5	20.7
		1	25	20.7	20.3	20.6	5	20.7	20.7	20.3	20.6	5	20.7
		1	49	20.7	20.3	20.5	5	20.7	20.7	20.3	20.5	5	20.7
		25	0	20.5	20.6	20.6	5	20.7	20.5	20.6	20.6	5	20.7
5 MHz	QPSK	25	12	20.6	20.7	20.6	5	20.7	20.6	20.7	20.6	5	20.7
		25	25	20.5	20.6	20.6	5	20.7	20.5	20.6	20.6	5	20.7
		0	0	20.5	20.6	20.5	5	20.7	20.5	20.6	20.5	5	20.7
	16QAM	1	0	25.0	25.1	24.9	0	25.7	25.0	25.1	24.9	0	25.7
		1	12	25.0	25.1	24.7	0	25.7	25.0	25.1	24.7	0	25.7
		1	24	25.0	25.0	24.7	0	25.7	25.0	25.0	24.7	0	25.7
		12	0	24.0	24.0	23.9	1	24.7	24.0	24.0	23.9	1	24.7
		12	7	24.0	24.0	23.9	1	24.7	24.0	24.0	23.9	1	24.7
		12	13	24.0	23.9	23.8	1	24.7	24.0	23.9	23.8	1	24.7
	64QAM	25	0	24.0	24.0	23.9	1	24.7	24.0	24.0	23.9	1	24.7
		1	0	24.1	24.2	24.5	1	24.7	24.1	24.2	24.5	1	24.7
		1	12	24.0	24.1	24.3	1	24.7	24.0	24.1	24.3	1	24.7
		1	24	24.2	24.1	24.3	1	24.7	24.2	24.1	24.3	1	24.7
		12	0	23.0	23.0	23.1	2	23.7	23.0	23.0	23.1	2	23.7
		12	7	23.1	23.1	23.1	2	23.7	23.1	23.1	23.1	2	23.7
	256QAM	12	13	23.1	23.0	22.9	2	23.7	23.1	23.0	22.9	2	23.7
		25	0	23.0	23.0	22.9	2	23.7	23.0	23.0	22.9	2	23.7
		1	0	22.8	22.9	22.9	2	23.7	22.8	22.9	22.9	2	23.7
		1	12	22.9	22.8	22.9	2	23.7	22.9	22.8	22.9	2	23.7
		1	24	22.8	22.9	22.9	2	23.7	22.8	22.9	22.9	2	23.7
		12	0	21.9	21.9	21.9	3	22.7	21.9	21.9	21.9	3	22.7
	64QAM	12	7	21.8	21.8	21.8	3	22.7	21.8	21.8	21.8	3	22.7
		12	13	21.9	21.9	21.8	3	22.7	21.9	21.9	21.8	3	22.7
		25	0	21.8	21.8	21.8	3	22.7	21.8	21.8	21.8	3	22.7
	256QAM	1	0	20.2	20.7	20.6	5	20.7	20.2	20.7	20.6	5	20.7
		1	12	20.2	20.7	20.4	5	20.7	20.2	20.7	20.4	5	20.7
		1	24	20.1	20.7	20.5	5	20.7	20.1	20.7	20.5	5	20.7
		12	0	20.4	20.6	20.6	5	20.7	20.4	20.6	20.6	5	20.7
		12	7	20.5	20.6	20.6	5	20.7	20.5	20.6	20.6	5	20.7
		12	13	20.4	20.5	20.5	5	20.7	20.4	20.5	20.5	5	20.7
	256QAM	25	0	20.6	20.6	20.5	5	20.7	20.6	20.6	20.5	5	20.7

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	23.3	0	24.2		23.3	0	24.2	
		1	49	23.4	0	24.2		23.4	0	24.2	
		1	99	23.2	0	24.2		23.2	0	24.2	
		50	0	22.3	1	23.2		22.3	1	23.2	
		50	24	22.4	1	23.2		22.4	1	23.2	
		50	50	22.3	1	23.2		22.3	1	23.2	
	16QAM	100	0	22.4	1	23.2		22.4	1	23.2	
		1	0	22.9	1	23.2		22.9	1	23.2	
		1	49	22.8	1	23.2		22.8	1	23.2	
		1	99	22.8	1	23.2		22.8	1	23.2	
		50	0	21.4	2	22.2		21.4	2	22.2	
		50	24	21.4	2	22.2		21.4	2	22.2	
	64QAM	50	50	21.3	2	22.2		21.3	2	22.2	
		100	0	21.4	2	22.2		21.4	2	22.2	
		1	0	21.2	2	22.2		21.2	2	22.2	
		1	49	21.3	2	22.2		21.3	2	22.2	
		1	99	21.2	2	22.2		21.2	2	22.2	
		50	0	20.2	3	21.2		20.2	3	21.2	
	256QAM	50	24	20.2	3	21.2		20.2	3	21.2	
		50	50	20.2	3	21.2		20.2	3	21.2	
		100	0	20.3	3	21.2		20.3	3	21.2	
		1	0	19.1	5	19.2		19.1	5	19.2	
		1	49	19.2	5	19.2		19.2	5	19.2	
		1	99	19.2	5	19.2		19.2	5	19.2	
15 MHz	QPSK	50	0	18.9	5	19.2		18.9	5	19.2	
		50	24	19.0	5	19.2		19.0	5	19.2	
		50	50	18.9	5	19.2		18.9	5	19.2	
		100	0	18.9	5	19.2		18.9	5	19.2	
	16QAM	1	0	23.4	0	24.2		23.4	0	24.2	
		1	37	23.2	0	24.2		23.2	0	24.2	
		1	74	23.2	0	24.2		23.2	0	24.2	
		36	0	22.3	1	23.2		22.3	1	23.2	
		36	20	22.4	1	23.2		22.4	1	23.2	
		36	39	22.3	1	23.2		22.3	1	23.2	
	64QAM	75	0	22.4	1	23.2		22.4	1	23.2	
		1	0	22.3	1	23.2		22.3	1	23.2	
		1	37	22.2	1	23.2		22.2	1	23.2	
		1	74	22.2	1	23.2		22.2	1	23.2	
		36	0	21.3	2	22.2		21.3	2	22.2	
		36	20	21.4	2	22.2		21.4	2	22.2	
	256QAM	36	39	21.3	2	22.2		21.3	2	22.2	
		75	0	21.4	2	22.2		21.4	2	22.2	
		1	0	21.3	2	22.2		21.3	2	22.2	
		1	37	21.3	2	22.2		21.3	2	22.2	
		1	74	21.2	2	22.2		21.2	2	22.2	
		36	0	20.2	3	21.2		20.2	3	21.2	
	QPSK	36	20	20.3	3	21.2		20.3	3	21.2	
		36	39	20.2	3	21.2		20.2	3	21.2	
		75	0	20.3	3	21.2		20.3	3	21.2	
		1	0	19.1	5	19.2		19.1	5	19.2	
		1	37	19.1	5	19.2		19.1	5	19.2	
		1	74	19.2	5	19.2		19.2	5	19.2	
	16QAM	36	0	19.0	5	19.2		19.0	5	19.2	
		36	20	18.9	5	19.2		18.9	5	19.2	
		36	39	18.9	5	19.2		18.9	5	19.2	
		75	0	18.9	5	19.2		18.9	5	19.2	
		1	0	19.1	5	19.2		19.1	5	19.2	
		1	37	19.1	5	19.2		19.1	5	19.2	
	64QAM	1	74	19.2	5	19.2		19.2	5	19.2	
		36	0	19.0	5	19.2		19.0	5	19.2	
		36	20	18.9	5	19.2		18.9	5	19.2	
		36	39	18.9	5	19.2		18.9	5	19.2	
		75	0	18.9	5	19.2		18.9	5	19.2	
		1	0	19.1	5	19.2		19.1	5	19.2	

LTE Band 71 Measured Results (ANT2) (continued)

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	23.6	23.4	23.4	0	24.2	23.6	23.4	23.4	0	24.2
		1	25	23.5	23.3	23.4	0	24.2	23.5	23.3	23.4	0	24.2
		1	49	23.5	23.3	23.4	0	24.2	23.5	23.3	23.4	0	24.2
		25	0	22.6	22.4	22.4	1	23.2	22.6	22.4	22.4	1	23.2
		25	12	22.7	22.4	22.4	1	23.2	22.7	22.4	22.4	1	23.2
		25	25	22.6	22.5	22.4	1	23.2	22.6	22.5	22.4	1	23.2
	16QAM	0	0	22.6	22.5	22.4	1	23.2	22.6	22.5	22.4	1	23.2
		1	25	22.6	22.4	22.7	1	23.2	22.6	22.4	22.7	1	23.2
		1	49	22.5	22.4	22.8	1	23.2	22.5	22.4	22.8	1	23.2
		25	0	21.7	21.4	21.4	2	22.2	21.7	21.4	21.4	2	22.2
		25	12	21.8	21.5	21.5	2	22.2	21.8	21.5	21.5	2	22.2
		25	25	21.7	21.5	21.5	2	22.2	21.7	21.5	21.5	2	22.2
	64QAM	0	0	21.7	21.5	21.4	2	22.2	21.7	21.5	21.4	2	22.2
		1	0	21.2	21.2	21.3	2	22.2	21.2	21.2	21.3	2	22.2
		1	25	21.2	21.3	21.3	2	22.2	21.2	21.3	21.3	2	22.2
		1	49	21.2	21.2	21.2	2	22.2	21.2	21.2	21.2	2	22.2
		25	0	20.3	20.2	20.2	3	21.2	20.3	20.2	20.2	3	21.2
		25	12	20.2	20.2	20.3	3	21.2	20.2	20.2	20.3	3	21.2
	256QAM	25	25	20.2	20.3	20.3	3	21.2	20.2	20.3	20.3	3	21.2
		0	0	20.3	20.2	20.3	3	21.2	20.3	20.2	20.3	3	21.2
		1	0	19.2	18.7	19.0	5	19.2	19.2	18.7	19.0	5	19.2
		1	25	19.2	18.8	19.1	5	19.2	19.2	18.8	19.1	5	19.2
		1	49	19.2	18.8	19.0	5	19.2	19.2	18.8	19.0	5	19.2
		25	0	19.0	19.1	19.1	5	19.2	19.0	19.1	19.1	5	19.2
5 MHz	QPSK	25	12	19.1	19.2	19.1	5	19.2	19.1	19.2	19.1	5	19.2
		25	25	19.0	19.1	19.1	5	19.2	19.0	19.1	19.1	5	19.2
		0	0	19.0	19.1	19.0	5	19.2	19.0	19.1	19.0	5	19.2
	16QAM	1	0	23.7	23.6	23.5	0	24.2	23.7	23.6	23.5	0	24.2
		1	12	23.6	23.6	23.4	0	24.2	23.6	23.6	23.4	0	24.2
		1	24	23.6	23.5	23.3	0	24.2	23.6	23.5	23.3	0	24.2
	64QAM	12	0	22.7	22.5	22.4	1	23.2	22.7	22.5	22.4	1	23.2
		12	7	22.7	22.5	22.4	1	23.2	22.7	22.5	22.4	1	23.2
		12	13	22.7	22.5	22.3	1	23.2	22.7	22.5	22.3	1	23.2
	256QAM	25	0	22.7	22.5	22.4	1	23.2	22.7	22.5	22.4	1	23.2
		1	0	22.8	22.7	23.0	1	23.2	22.8	22.7	23.0	1	23.2
		1	12	22.7	22.6	22.9	1	23.2	22.7	22.6	22.9	1	23.2
		1	24	22.8	22.6	22.8	1	23.2	22.8	22.6	22.8	1	23.2
		12	0	21.7	21.5	21.6	2	22.2	21.7	21.5	21.6	2	22.2
		12	7	21.7	21.6	21.6	2	22.2	21.7	21.6	21.6	2	22.2
	64QAM	12	13	21.7	21.5	21.5	2	22.2	21.7	21.5	21.5	2	22.2
		25	0	21.6	21.5	21.5	2	22.2	21.6	21.5	21.5	2	22.2
		1	0	21.3	21.2	21.3	2	22.2	21.3	21.2	21.3	2	22.2
		1	12	21.3	21.3	21.2	2	22.2	21.3	21.3	21.2	2	22.2
		1	24	21.3	21.3	21.3	2	22.2	21.3	21.3	21.3	2	22.2
		12	0	20.2	20.2	20.2	3	21.2	20.2	20.2	20.2	3	21.2
	256QAM	12	7	20.3	20.2	20.2	3	21.2	20.3	20.2	20.2	3	21.2
		12	13	20.2	20.2	20.2	3	21.2	20.2	20.2	20.2	3	21.2
		25	0	20.3	20.3	20.2	3	21.2	20.3	20.3	20.2	3	21.2
		1	0	18.7	19.2	19.1	5	19.2	18.7	19.2	19.1	5	19.2
		1	12	18.7	19.2	18.9	5	19.2	18.7	19.2	18.9	5	19.2
		1	24	18.6	19.2	19.0	5	19.2	18.6	19.2	19.0	5	19.2
	256QAM	12	0	18.9	19.1	19.1	5	19.2	18.9	19.1	19.1	5	19.2
		12	7	19.0	19.1	19.1	5	19.2	19.0	19.1	19.1	5	19.2
		12	13	18.9	19.0	19.0	5	19.2	18.9	19.0	19.0	5	19.2
		25	0	19.1	19.1	19.0	5	19.2	19.1	19.1	19.0	5	19.2

9.4. LTE Up-Link Carrier Aggregation

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

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

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

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

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration				MPR (dB)
	25 RB	50 RB	75 RB	100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3
256 QAM	≥ 1				≤ 5

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

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

Where M_A is defined as follows

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

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

and M_{IM5} is defined as follows

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

Where

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

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

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

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

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

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

Where M_N is defined as follows

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

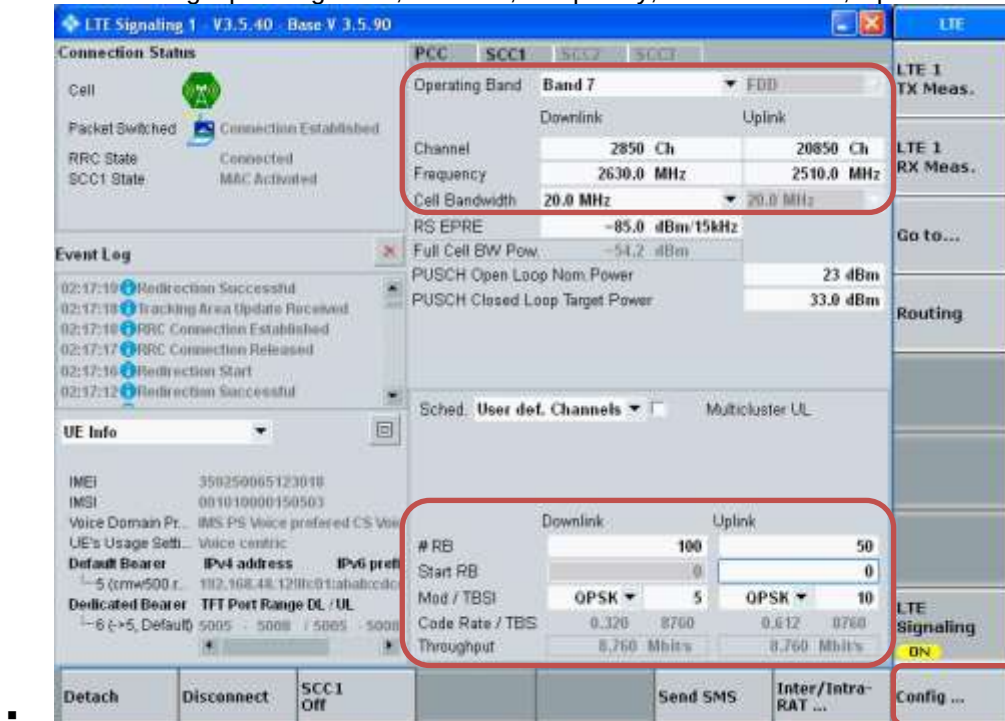
Where $N = N_{RB_alloc}$ is the number of allocated resource blocks.

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

LTE Carrier Aggregation Test Signal Set-up Procedure**(Use normal LTE set-up procedure in addition with the following steps)**

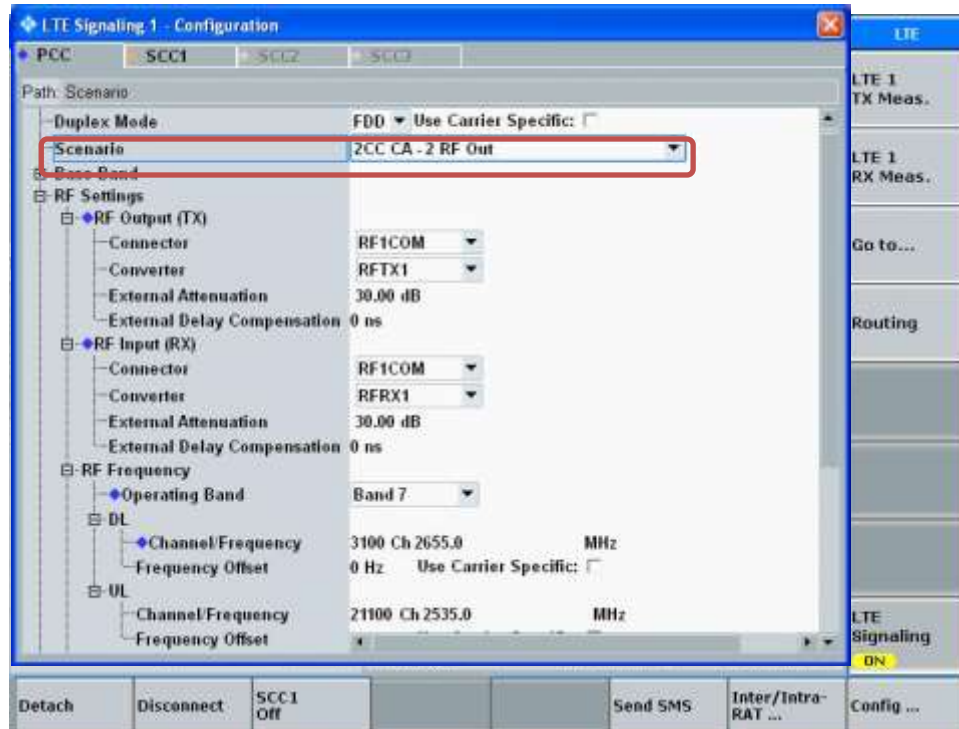
Set to CMW-500 with following parameters:

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

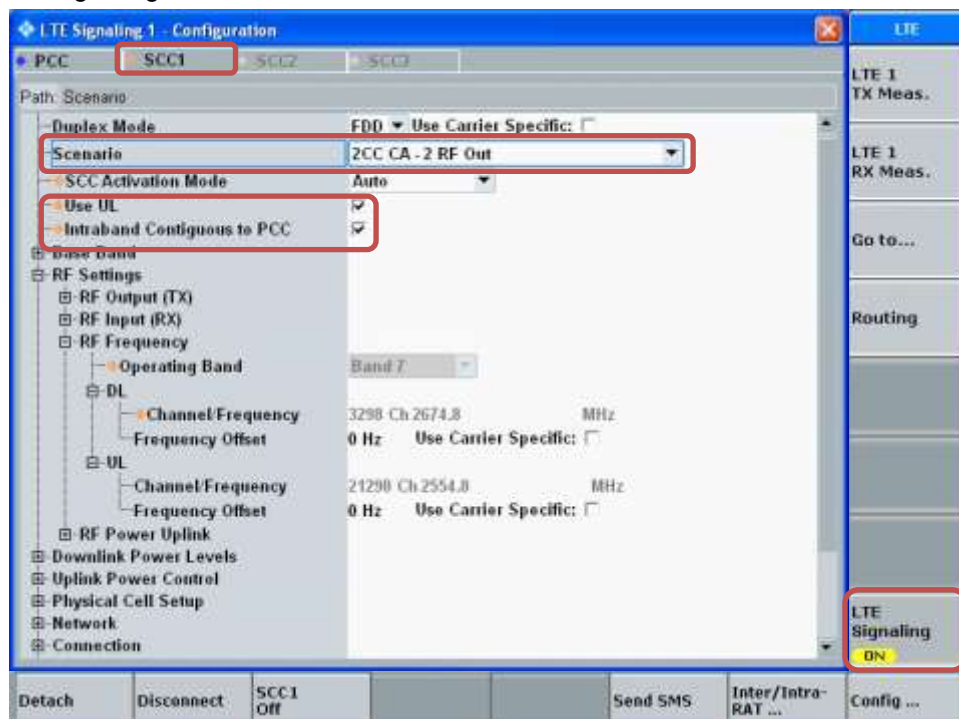


- Go to "Config...."

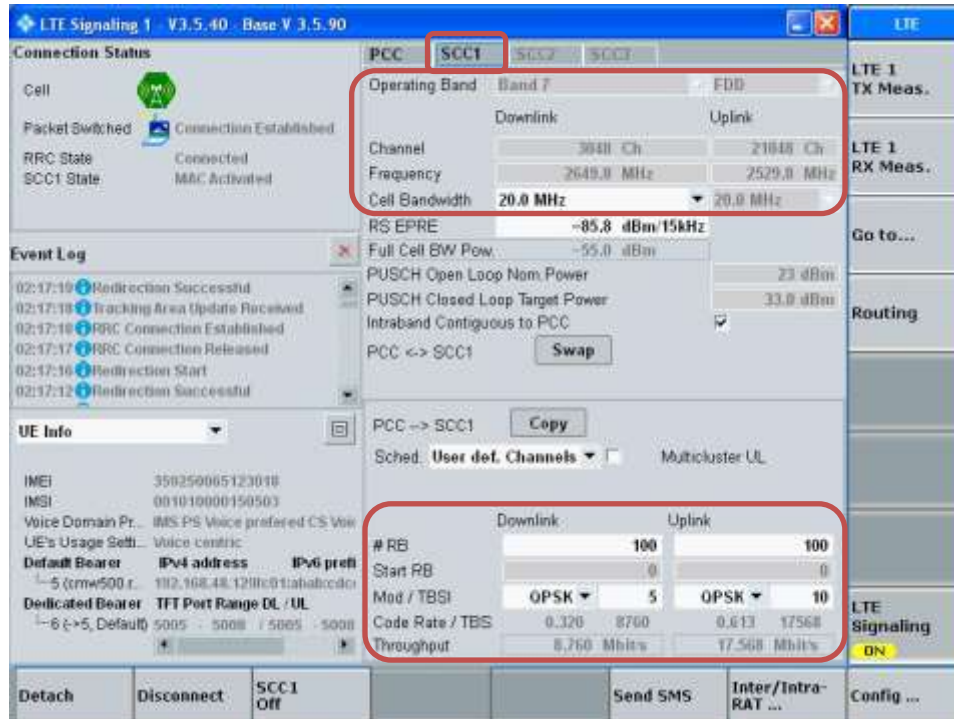
- Go to "Scenario"
- Set to "2CC CA – 2 RF Out"



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

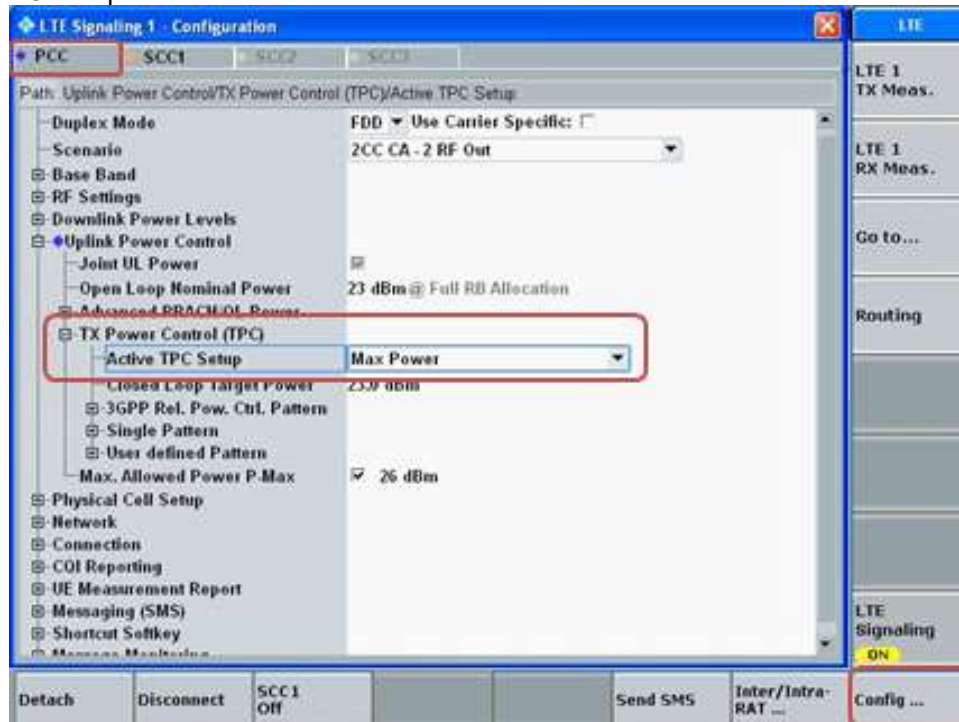


- Select “SCC1” tab
 - Select the testing Cell Bandwidth, Uplink RBs

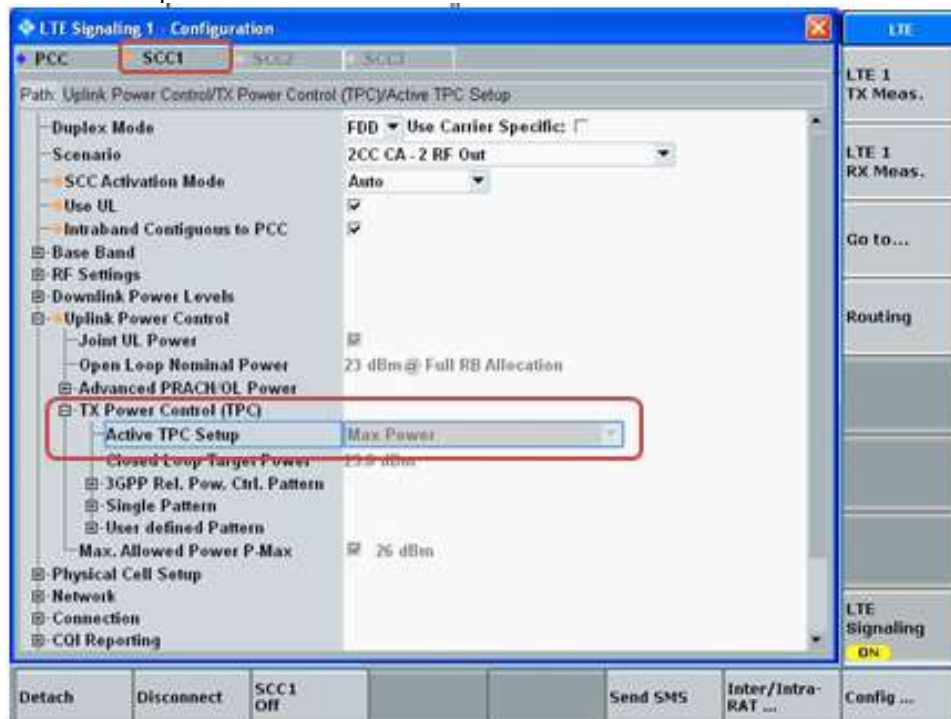


Max Power Setting

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

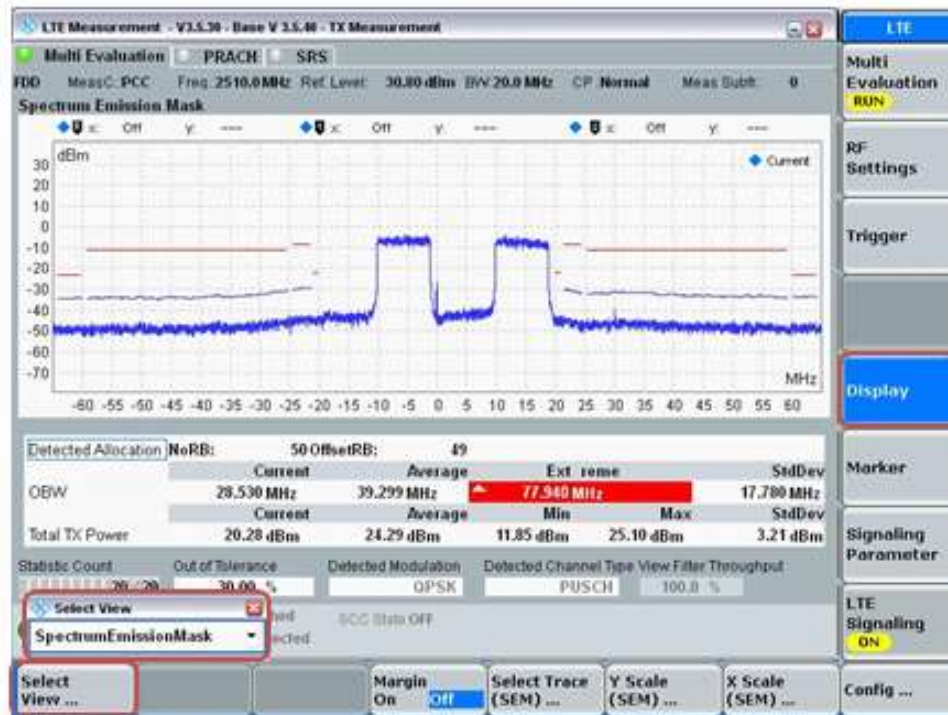


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



View TX Power

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



LTE Intra-Band Contiguous Carrier Aggregation

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

UL CA power measurements were performed for each antennas at with QPSK modulation based on the worst-case standalone SAR.

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

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

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

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

Output Power for LTE UL Carrier Aggregation

Intra-Band Contiguous	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT2			ANT1		ANT2	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
CA_5B	QPSK	24.70	23.40	23.20	23.20	1.0 / -1.0	25.70	24.40	24.20	24.20
CA_7C	QPSK	23.30	17.40	14.30	15.80	1.0 / -1.0	24.30	18.40	15.30	16.80
CA_41C (PC3)	QPSK	24.70	19.80	16.40	17.60	1.0 / -1.0	25.70	20.80	17.40	18.60
CA_41C (PC2)	QPSK	25.80	N/A	N/A	N/A	1.0 / -1.0	26.80	N/A	N/A	N/A
Intra-Band Contiguous	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT4			ANT1		ANT4	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
CA_48C	QPSK	21.70	21.70	18.20	21.50	1.0 / -1.0	22.70	22.70	19.20	22.50

LTE CA 5B Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_5B	ANT 1	Mode A	QPSK	10	831.6	1	49	10	841.5	1	0	25.7	24.7	25.7	24.7	0.0
CA_5B	ANT 1	Mode B	QPSK	10	831.6	1	49	10	841.5	1	0	24.4	23.8	24.4	22.8	-1.0
CA_5B	ANT 2	Mode A	QPSK	10	831.6	1	49	10	841.5	1	0	24.2	23.5	24.2	22.8	-0.7
CA_5B	ANT 2	Mode B	QPSK	10	831.6	1	49	10	841.5	1	0	24.2	23.5	24.2	22.8	-0.7

Note(s):

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

LTE CA 7C Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_7C	ANT 1	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	24.3	23.7	24.3	23.1	-0.6
CA_7C	ANT 1	Mode B	QPSK	20	2510.0	1	99	20	2529.8	1	0	18.4	18.3	18.4	17.2	-1.1
CA_7C	ANT 2	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	15.3	14.8	15.3	14.4	-0.4
CA_7C	ANT 2	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	16.8	16.1	16.8	15.9	-0.2

Note(s):

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

LTE CA 41C (PC3) Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_41C	ANT 1	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	25.7	24.8	25.7	24.9	0.1
CA_41C	ANT 1	Mode B	QPSK	20	2660.2	1	99	20	2680	1	0	20.8	20.0	20.8	20.0	0.0
CA_41C	ANT 2	Mode A	QPSK	20	2506.0	1	99	20	2525.8	1	0	17.4	17.0	17.4	17.0	0.0
CA_41C	ANT 2	Mode B	QPSK	20	2506.0	1	99	20	2525.8	1	0	18.6	18.0	18.6	18.0	0.0

Note(s):

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

LTE CA 48C Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_48C	ANT 1	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	22.7	22.1	22.7	22.1	0.0
CA_48C	ANT 1	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	22.7	22.1	22.7	22.1	0.0
CA_48C	ANT 4	Mode A	QPSK	20	3560.0	1	99	20	3579.8	1	0	19.2	18.6	19.2	18.5	-0.1
CA_48C	ANT 4	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	22.5	21.8	22.5	21.8	0.0

Note(s):

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

LTE Inter-Band Carrier Aggregation

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

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

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

The maximum UL CA transmit power is reduced by 3dB from the standalone values for both carriers therefore SAR will be reduced accordingly.

The reported 1g SAR for any standalone LTE configuration does not exceed 1.2 W/kg. The worst case UL CA SAR per band will therefore be <0.6W/kg. As the SAR for each individual band is <0.6 W/kg and the algebraic summation cannot exceed 1.2 W/kg no further measurements are needed.

The combined SAR contribution cannot exceed the highest standalone SAR:

$$(SAR_{LTE1}/2 + SAR_{LTE2}/2 \leq \text{Max}(SAR_{LTE1}, SAR_{LTE2}))$$

therefore simultaneous transmission analysis of UL-CA and WLAN/BT transmitters can be done using either of the standalone LTE SAR values alone.

9.5. LTE Down-Link Carrier Aggregation

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

9.6. 5G NR(FR1)

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 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 TS138.521-1.

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

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0 ²
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM		≤ 2.5	
DFT-s-OFDM 256 QAM		≤ 4.5	
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM		≤ 3.5	
CP-OFDM 256 QAM		≤ 6.5	
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 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 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_1RB_Left	Edge_1RB_Right	Outer_Full	Inner_Full	Inner_1RB_Left	Inner_1RB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	26@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 ¹	1@1	1@77
	30	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
	60	DFT-s	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
		CP	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 ¹	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
25MHz	15	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	30	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
	60	DFT-s	2@0	2@29	1@0	1@30	30@0	15@7 ¹	1@1	1@29
		CP	2@0	2@29	1@0	1@30	31@0	15@7 ¹	1@1	1@29
30MHz	15	DFT-s	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
		CP	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
	30	DFT-s	2@0	2@76	1@0	1@77	75@0	36@18	1@1	1@76
		CP	2@0	2@76	1@0	1@77	78@0	39@19	1@1	1@76
	60	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
40MHz	15	DFT-s	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
		CP	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
	30	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	60	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 ¹	1@1	1@49
50MHz	15	DFT-s	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
		CP	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
	30	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	60	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
60MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
		CP	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
	60	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 ¹	1@1	1@77
80MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90MHz	30	DFT-s	2@0	2@215	1@0	1@216	216@0	108@54	1@1	1@215
		CP	2@0	2@215	1@0	1@216	217@0	109@54	1@1	1@215
	60	DFT-s	2@0	2@105	1@0	1@106	100@0	50@25	1@1	1@105
		CP	2@0	2@105	1@0	1@106	107@0	53@26 ¹	1@1	1@105
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2@0	2@243	1@0	1@244	240@0	120@60	1@1	1@243
		CP	2@0	2@243	1@0	1@244	245@0	123@61	1@1	1@243
	60	DFT-s	2@0	2@119	1@0	1@120	120@0	60@30	1@1	1@119
		CP	2@0	2@119	1@0	1@120	121@0	61@30	1@1	1@119
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2@0	2@271	1@0	1@272	270@0	135@67	1@1	1@271
		CP	2@0	2@271	1@0	1@272	273@0	137@68	1@1	1@271
	60	DFT-s	2@0	2@133	1@0	1@134	135@0	64@32	1@1	1@133
		CP	2@0	2@133	1@0	1@134	135@0	67@33 ¹	1@1	1@133
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note 1: The allocated RB number Low is $cell(N_{RB}/2) - 1$ in order to meet Inner RB allocation definition ($RB_{start,Low} \leq RB_{start} \leq RB_{start,High}$) described in subclause 6.2.2 of TS 38.101-1 [2].

Output Power for 5G NR (FR1)

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping 5G NR(FR1) bands as follows:

- c) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
- d) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

- NR Band n2 (1850-1910 MHz) is covered by NR Band n25 (1850-1915 MHz)

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

SAR measurement is not required for the Pi/2 BPSK, 16QAM, 64QAM and 256QAM. When the highest maximum output power for Pi/2 BPSK, 16QAM, 64QAM and 256QAM is $\leq \frac{1}{2}$ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.5. for 5G NR(FR1) detail test channels.

RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT2			ANT1		ANT2	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
NR n2	QPSK	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
NR n5	QPSK	25.00	23.70	23.50	23.50	0.7 / -1.0	25.70	24.40	24.20	24.20
NR n7	QPSK	23.60	17.70	14.60	16.10	0.7 / -1.0	24.30	18.40	15.30	16.80
NR n12	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
NR n25	QPSK	22.40	17.90	17.50	18.40	0.7 / -1.0	23.10	18.60	18.20	19.10
NR n30	QPSK	23.30	18.60	17.70	17.50	0.7 / -1.0	24.00	19.30	18.40	18.20
NR n41 (PC3)	QPSK	23.50	18.40	15.00	16.20	0.7 / -1.0	24.20	19.10	15.70	16.90
NR n41 (PC2)	QPSK	N/A	N/A	N/A	N/A	0.7 / -1.0	N/A	N/A	N/A	N/A
NR n66	QPSK	23.60	20.80	17.50	19.30	0.7 / -1.0	24.30	21.50	18.20	20.00
NR n71	QPSK	25.00	25.00	23.50	23.50	0.7 / -1.0	25.70	25.70	24.20	24.20
RF Air interface	Mode	Target Output Power (dBm)				Tolerance	Maximum Output Power (Tune-up Limit) (dBm)			
		ANT1		ANT4			ANT1		ANT4	
		Mode A	Mode B	Mode A	Mode B		+ / -	Mode A	Mode B	Mode A
NR n77 (PC3)	QPSK	24.70	20.00	16.20	18.60	0.7 / -1.0	25.40	20.70	16.90	19.30
NR n77 (PC2)	QPSK	25.30	20.00	N/A	N/A	0.7 / -1.0	26.00	20.70	N/A	N/A

NR Band 5 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						167300	836.5 MHz	MPR	Tune-up Limit	167300	836.5 MHz	MPR	Tune-up Limit
20	DFT-s	15	$\pi/2$ BPSK	1	1	25.1	25.7	0	25.7	24.0	24.4	0	24.4
				1	52	25.4	25.7	0	25.7	23.8	24.4	0	24.4
				1	104	24.2	25.7	0	25.7	23.7	24.4	0	24.4
				50	25	24.5	25.7	0	25.7	24.1	24.4	0	24.4
				1	1	25.3	25.7	0	25.7	24.0	24.4	0	24.4
			QPSK	1	52	25.0	25.7	0	25.7	23.9	24.4	0	24.4
				1	104	24.2	25.7	0	25.7	23.7	24.4	0	24.4
				50	25	24.5	25.7	0	25.7	23.6	24.4	0	24.4
15	DFT-s	15	$\pi/2$ BPSK	1	1	24.9	25.7	0	25.7	23.8	24.4	0	24.4
				1	39	24.9	25.7	0	25.7	23.8	24.4	0	24.4
				1	77	24.0	25.7	0	25.7	22.7	24.4	0	24.4
				36	18	24.3	25.7	0	25.7	23.7	24.4	0	24.4
				1	1	25.0	25.7	0	25.7	23.7	24.4	0	24.4
			QPSK	1	39	24.9	25.7	0	25.7	23.6	24.4	0	24.4
				1	77	24.2	25.7	0	25.7	23.9	24.4	0	24.4
				36	18	24.4	25.7	0	25.7	23.6	24.4	0	24.4
10	DFT-s	15	$\pi/2$ BPSK	1	1	24.7	25.7	0	25.7	23.5	24.4	0	24.4
				1	25	24.9	25.7	0	25.7	23.7	24.4	0	24.4
				1	50	24.2	25.7	0	25.7	23.0	24.4	0	24.4
				25	12	24.4	25.7	0	25.7	23.2	24.4	0	24.4
				1	1	24.8	25.7	0	25.7	23.9	24.4	0	24.4
			QPSK	1	25	25.0	25.7	0	25.7	23.8	24.4	0	24.4
				1	50	24.4	25.7	0	25.7	23.7	24.4	0	24.4
				25	12	24.2	25.7	0	25.7	24.0	24.4	0	24.4
5	DFT-s	15	$\pi/2$ BPSK	1	1	25.3	25.3	0	25.7	24.0	24.4	0	24.4
				1	12	25.0	25.2	0	25.7	24.0	23.9	0	24.4
				1	23	24.9	25.1	0	25.7	23.6	23.8	0	24.4
				12	6	25.1	25.1	0	25.7	23.8	23.8	0	24.4
				1	1	25.3	24.5	0	25.7	24.0	23.2	0	24.4
			QPSK	1	12	25.2	25.1	0	25.7	24.1	23.8	0	24.4
				1	23	25.1	24.7	0	25.7	23.8	23.7	0	24.4
				12	6	25.1	23.9	0	25.7	23.8	23.8	0	24.4

NR Band 5 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						167300 836.5 MHz		MPR	Tune-up Limit	167300 836.5 MHz		MPR	Tune-up Limit		
20	DFT-s	15	π/2 BPSK	1	1	23.7		0	24.2	23.7		0	24.2		
				1	52	23.8		0	24.2	23.8		0	24.2		
				1	104	23.8		0	24.2	23.8		0	24.2		
				50	25	23.7		0	24.2	23.7		0	24.2		
				1	1	23.6		0	24.2	23.6		0	24.2		
			QPSK	1	52	23.6		0	24.2	23.6		0	24.2		
				1	104	23.6		0	24.2	23.6		0	24.2		
				50	25	23.6		0	24.2	23.6		0	24.2		
						23.7		0	24.2	23.7		0	24.2		
15	DFT-s	15	π/2 BPSK	1	1	23.6		0	24.2	23.6		0	24.2		
				1	39	23.6		0	24.2	23.6		0	24.2		
				1	77	23.6		0	24.2	23.6		0	24.2		
				36	18	23.6		0	24.2	23.6		0	24.2		
				1	1	23.6		0	24.2	23.6		0	24.2		
			QPSK	1	39	23.5		0	24.2	23.5		0	24.2		
				1	77	23.7		0	24.2	23.7		0	24.2		
				36	18	23.8		0	24.2	23.8		0	24.2		
10	DFT-s	15	π/2 BPSK	1	1	23.5		0	24.2	23.5		0	24.2		
				1	25	23.6		0	24.2	23.6		0	24.2		
				1	50	23.5		0	24.2	23.5		0	24.2		
				25	12	23.7		0	24.2	23.7		0	24.2		
				1	1	23.6		0	24.2	23.6		0	24.2		
			QPSK	1	25	23.7		0	24.2	23.7		0	24.2		
				1	50	23.6		0	24.2	23.6		0	24.2		
				25	12	23.7		0	24.2	23.7		0	24.2		
5	DFT-s	15	π/2 BPSK	1	1	23.7	23.7	23.6	0	24.2	23.7	23.7	23.6	0	24.2
				1	12	23.7	23.7	23.5	0	24.2	23.7	23.7	23.5	0	24.2
				1	23	23.5	23.5	23.6	0	24.2	23.5	23.5	23.6	0	24.2
				12	6	23.6	23.6	23.6	0	24.2	23.6	23.6	23.6	0	24.2
				1	1	23.6	23.8	23.8	0	24.2	23.6	23.8	23.8	0	24.2
			QPSK	1	12	23.7	23.7	23.4	0	24.2	23.7	23.7	23.4	0	24.2
				1	23	23.5	23.7	23.6	0	24.2	23.5	23.7	24.1	0	24.2
				12	6	23.6	23.6	23.5	0	24.2	23.6	23.6	23.5	0	24.2

NR Band 7 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							507000 2535 MHz		MPR	Tune-up Limit		507000 2535 MHz		MPR	Tune-up Limit
40	DFT-s	15	π/2 BPSK	1	1		23.9		0	24.3		18.0		0	18.4
				1	107		24.0		0	24.3		18.1		0	18.4
				1	214		23.7		0	24.3		18.0		0	18.4
				108	54		23.8		0	24.3		18.0		0	18.4
			QPSK	1	1		23.9		0	24.3		17.9		0	18.4
				1	107		23.9		0	24.3		16.6		0	18.4
				1	214		23.8		0	24.3		18.0		0	18.4
				108	54		23.6		0	24.3		18.0		0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							507000 2535 MHz		MPR	Tune-up Limit		507000 2535 MHz		MPR	Tune-up Limit
30	DFT-s	15	π/2 BPSK	1	1		23.6		0	24.3		17.6		0	18.4
				1	79		23.6		0	24.3		17.6		0	18.4
				1	158		23.9		0	24.3		18.0		0	18.4
				80	40		23.9		0	24.3		17.9		0	18.4
			QPSK	1	1		23.8		0	24.3		17.9		0	18.4
				1	79		23.9		0	24.3		17.9		0	18.4
				1	158		23.9		0	24.3		18.0		0	18.4
				80	40		23.6		0	24.3		17.7		0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							507000 2535 MHz		MPR	Tune-up Limit		507000 2535 MHz		MPR	Tune-up Limit
25	DFT-s	15	π/2 BPSK	1	1		23.9		0	24.3		17.9		0	18.4
				1	66		23.9		0	24.3		17.9		0	18.4
				1	131		23.5		0	24.3		17.6		0	18.4
				64	32		23.9		0	24.3		17.9		0	18.4
			QPSK	1	1		23.8		0	24.3		17.9		0	18.4
				1	66		23.8		0	24.3		17.9		0	18.4
				1	131		23.6		0	24.3		17.7		0	18.4
				64	32		23.6		0	24.3		17.7		0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						502000 2510 MHz	507000 2535 MHz	512000 2560 MHz	MPR	Tune-up Limit	502000 2510 MHz	507000 2535 MHz	512000 2560 MHz	MPR	Tune-up Limit
20	DFT-s	15	π/2 BPSK	1	1	23.6	23.7	23.9	0	24.3	17.7	17.8	17.9	0	18.4
				1	52	23.6	23.7	23.9	0	24.3	17.7	17.8	17.9	0	18.4
				1	104	23.9	23.7	23.2	0	24.3	18.0	17.7	17.3	0	18.4
				50	25	23.9	23.9	23.5	0	24.3	17.9	18.0	17.5	0	18.4
			QPSK	1	1	23.8	23.8	23.9	0	24.3	17.8	17.8	18.0	0	18.4
				1	52	23.8	23.8	23.9	0	24.3	17.8	17.8	18.0	0	18.4
				1	104	23.9	23.7	23.3	0	24.3	18.0	17.7	17.4	0	18.4
				50	25	23.8	23.9	23.5	0	24.3	17.9	18.0	17.6	0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						501500 2507.5 MHz	507000 2535 MHz	512500 2562.5 MHz	MPR	Tune-up Limit	501500 2507.5 MHz	507000 2535 MHz	512500 2562.5 MHz	MPR	Tune-up Limit
15	DFT-s	15	π/2 BPSK	1	1	23.6	23.8	23.8	0	24.3	17.7	17.9	17.9	0	18.4
				1	39	23.6	23.8	23.8	0	24.3	17.7	17.9	17.9	0	18.4
				1	77	23.9	23.8	23.5	0	24.3	17.9	17.9	17.5	0	18.4
				36	18	23.7	23.9	23.5	0	24.3	17.8	17.9	17.6	0	18.4
			QPSK	1	1	23.6	23.9	23.8	0	24.3	17.7	18.0	17.9	0	18.4
				1	39	23.6	23.9	23.9	0	24.3	17.7	18.0	17.9	0	18.4
				1	77	23.9	23.8	23.6	0	24.3	18.0	17.9	17.7	0	18.4
				36	18	23.8	23.9	23.6	0	24.3	17.9	18.0	17.7	0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						501000 2505 MHz	507000 2535 MHz	513000 2565 MHz	MPR	Tune-up Limit	501000 2505 MHz	507000 2535 MHz	513000 2565 MHz	MPR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1	23.8	23.7	23.8	0	24.3	17.8	17.8	17.9	0	18.4
				1	25	23.9	23.5	23.8	0	24.3	18.0	17.9	17.9	0	18.4
				1	50	23.9	23.9	23.8	0	24.3	17.9	17.9	17.9	0	18.4
				25	12	23.8	23.8	23.8	0	24.3	17.9	17.9	17.8	0	18.4
			QPSK	1	1	23.9	23.9	23.9	0	24.3	18.0	18.0	18.0	0	18.4
				1	25	23.8	23.4	23.7	0	24.3	17.9	17.5	17.8	0	18.4
				1	50	23.9	23.9	23.9	0	24.3	17.9	18.0	18.0	0	18.4
				25	12	23.8	23.8	23.8	0	24.3	17.9	17.9	17.9	0	18.4
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						500500 2502.5 MHz	507000 2535 MHz	513500 2567.5 MHz	MPR	Tune-up Limit	500500 2502.5 MHz	507000 2535 MHz	513500 2567.5 MHz	MPR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	23.8	23.9	23.7	0	24.3	17.9	18.0	17.8	0	18.4
				1	12	23.4	22.6	23.6	0	24.3	17.5	16.7	17.7	0	18.4
				1	23	23.9	23.9	23.9	0	24.3	17.9	18.0	17.9	0	18.4
				12	6	23.8	23.9	23.8	0	24.3	17.8	18.0	17.8	0	18.4
			QPSK	1	1	23.9	23.9	23.8	0	24.3	18.0	17.9	17.9	0	18.4
				1	12	23.4	22.5	23.8	0	24.3	17.4	16.6	17.9	0	18.4
				1	23	23.9	23.9	23.9	0	24.3	18.0	18.0	18.0	0	18.4
				12	6	23.8	23.9	23.9	0	24.3	17.9	18.0	17.9	0	18.4

NR Band 7 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							507000		MPR	Tune-up Limit		507000		MPR	Tune-up Limit
							2535 MHz			2535 MHz		2535 MHz			2535 MHz
40	DFT-s	15	π/2 BPSK	1	1		14.7		0	15.3		16.3		0	16.8
				1	107		14.9		0	15.3		16.4		0	16.8
				1	214		14.6		0	15.3		16.3		0	16.8
				108	54		15.0		0	15.3		16.5		0	16.8
			QPSK	1	1		14.9		0	15.3		16.4		0	16.8
				1	107		14.8		0	15.3		16.3		0	16.8
				1	214		14.6		0	15.3		16.3		0	16.8
				108	54		14.9		0	15.3		16.4		0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							507000		MPR	Tune-up Limit		507000		MPR	Tune-up Limit
							2535 MHz					2535 MHz			
30	DFT-s	15	π/2 BPSK	1	1		14.6		0	15.3		16.4		0	16.8
				1	79		14.7		0	15.3		16.3		0	16.8
				1	158		14.7		0	15.3		16.3		0	16.8
				80	40		14.7		0	15.3		16.3		0	16.8
			QPSK	1	1		14.8		0	15.3		16.3		0	16.8
				1	79		14.7		0	15.3		16.4		0	16.8
				1	158		14.8		0	15.3		16.3		0	16.8
				80	40		14.7		0	15.3		16.3		0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							507000		MPR	Tune-up Limit		507000		MPR	Tune-up Limit
							2535 MHz					2535 MHz			
25	DFT-s	15	π/2 BPSK	1	1		14.6		0	15.3		16.4		0	16.8
				1	66		14.7		0	15.3		16.4		0	16.8
				1	131		14.6		0	15.3		16.3		0	16.8
				64	32		14.7		0	15.3		16.3		0	16.8
			QPSK	1	1		14.8		0	15.3		16.3		0	16.8
				1	66		14.7		0	15.3		16.3		0	16.8
				1	131		14.5		0	15.3		16.4		0	16.8
				64	32		14.8		0	15.3		16.3		0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						502000	507000	512000	MPR	Tune-up Limit	502000	507000	512000	MPR	Tune-up Limit
						2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz			
20	DFT-s	15	π/2 BPSK	1	1	14.6	15.0	14.9	0	15.3	16.3	16.3	16.3	0	16.8
				1	52	14.8	14.6	14.7	0	15.3	16.4	16.3	16.3	0	16.8
				1	104	15.0	14.9	14.6	0	15.3	16.3	16.3	16.3	0	16.8
				50	25	15.0	14.7	14.6	0	15.3	16.3	16.3	16.4	0	16.8
			QPSK	1	1	14.5	15.0	14.8	0	15.3	16.3	16.3	16.3	0	16.8
				1	52	14.9	14.8	14.8	0	15.3	16.3	16.4	16.3	0	16.8
				1	104	14.8	14.8	14.8	0	15.3	16.4	16.3	16.3	0	16.8
				50	25	14.9	14.8	14.7	0	15.3	16.3	16.4	16.3	0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						501500	507000	512500	MPR	Tune-up Limit	501500	507000	512500	MPR	Tune-up Limit
						2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz			
15	DFT-s	15	π/2 BPSK	1	1	14.6	14.9	14.7	0	15.3	16.3	16.3	16.3	0	16.8
				1	39	14.7	14.8	14.6	0	15.3	16.4	16.3	16.3	0	16.8
				1	77	14.9	14.7	14.8	0	15.3	16.3	16.3	16.4	0	16.8
				36	18	14.8	14.6	14.7	0	15.3	16.3	16.4	16.3	0	16.8
			QPSK	1	1	14.8	14.8	14.8	0	15.3	16.3	16.4	16.3	0	16.8
				1	39	14.9	14.7	14.8	0	15.3	16.3	16.3	16.3	0	16.8
				1	77	14.9	14.9	14.7	0	15.3	16.3	16.3	16.3	0	16.8
				36	18	14.9	14.7	14.7	0	15.3	16.3	16.3	16.3	0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						501000	507000	513000	MPR	Tune-up Limit	501000	507000	513000	MPR	Tune-up Limit
						2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz			
10	DFT-s	15	π/2 BPSK	1	1	14.7	14.8	14.4	0	15.3	16.3	16.3	16.4	0	16.8
				1	25	14.9	14.4	15.0	0	15.3	16.3	16.4	16.3	0	16.8
				1	50	14.9	14.5	15.0	0	15.3	16.3	16.3	16.3	0	16.8
				25	12	14.0	14.4	14.3	0	15.3	16.3	16.3	16.3	0	16.8
			QPSK	1	1	14.4	14.9	14.2	0	15.3	16.3	16.3	16.4	0	16.8
				1	25	15.0	14.5	14.9	0	15.3	16.3	16.3	16.4	0	16.8
				1	50	15.0	14.5	15.0	0	15.3	16.4	16.3	16.4	0	16.8
				25	12	14.0	14.8	14.4	0	15.3	16.3	16.3	16.4	0	16.8
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						500500	507000	513500	MPR	Tune-up Limit	500500	507000	513500	MPR	Tune-up Limit
						2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz			
5	DFT-s	15	π/2 BPSK	1	1	14.2	14.9	14.3	0	15.3	16.3	16.3	16.3	0	16.8
				1	12	14.9	14.3	14.9	0	15.3	16.4	16.4	16.3	0	16.8
				1	23	15.0	14.3	15.0	0	15.3	16.3	16.3	16.3	0	16.8
				12	6	14.4	14.6	14.4	0	15.3	16.3	16.3	16.3	0	16.8
			QPSK	1	1	14.3	14.9	14.0	0	15.3	16.3	16.3	16.3	0	16.8
				1	12	15.0	14.4	15.0	0	15.3	16.3	16.3	16.3	0	16.8
				1	23	15.0	14.4	14.9	0	15.3	16.3	16.3	16.3	0	16.8
				12	6	14.5	14.6	14.3	0	15.3	16.3	16.3	16.3	0	16.8

NR Band 12 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							141500 707.5 MHz		MFR	Tune-up Limit		141500 707.5 MHz		MFR	Tune-up Limit
15	DFT-s	15	π/2 BPSK	1	1		25.2		0	25.7		25.2		0	25.7
				1	39		25.3		0	25.7		25.3		0	25.7
				1	77		25.0		0	25.7		25.0		0	25.7
				36	18		25.1		0	25.7		25.1		0	25.7
			QPSK	1	1		25.0		0	25.7		25.0		0	25.7
				1	39		25.2		0	25.7		25.2		0	25.7
				1	77		24.6		0	25.7		24.6		0	25.7
				36	18		25.1		0	25.7		25.1		0	25.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							141500 707.5 MHz		MFR	Tune-up Limit		141500 707.5 MHz		MFR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1		25.2		0	25.7		25.2		0	25.7
				1	25		25.1		0	25.7		25.1		0	25.7
				1	50		25.0		0	25.7		25.0		0	25.7
				25	12		25.2		0	25.7		25.2		0	25.7
			QPSK	1	1		25.2		0	25.7		25.2		0	25.7
				1	25		25.1		0	25.7		25.1		0	25.7
				1	50		24.3		0	25.7		24.3		0	25.7
				25	12		25.2		0	25.7		25.2		0	25.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz	MFR	Tune-up Limit	140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz	MFR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	25.2	25.0	25.1	0	25.7	25.2	25.0	25.1	0	25.7
				1	12	25.0	25.1	25.1	0	25.7	25.0	25.1	25.1	0	25.7
				1	23	24.8	24.9	24.9	0	25.7	24.8	24.9	24.9	0	25.7
				12	6	25.0	25.0	25.1	0	25.7	25.0	25.0	25.1	0	25.7
			QPSK	1	1	25.2	25.2	25.1	0	25.7	25.2	25.2	25.1	0	25.7
				1	12	25.1	25.1	25.2	0	25.7	25.1	25.1	25.2	0	25.7
				1	23	24.5	24.4	24.6	0	25.7	24.5	24.4	24.6	0	25.7
				12	6	24.3	25.0	24.9	0	25.7	24.3	25.0	24.9	0	25.7

NR Band 12 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							141500 707.5 MHz		MFR	Tune-up Limit		141500 707.5 MHz		MFR	Tune-up Limit
15	DFT-s	15	π/2 BPSK	1	1		23.6		0	24.2		23.6		0	24.2
				1	39		23.8		0	24.2		23.8		0	24.2
				1	77		23.6		0	24.2		23.6		0	24.2
				36	18		23.5		0	24.2		23.5		0	24.2
			QPSK	1	1		23.8		0	24.2		23.8		0	24.2
				1	39		23.4		0	24.2		23.4		0	24.2
				1	77		23.5		0	24.2		23.5		0	24.2
				36	18		23.7		0	24.2		23.7		0	24.2
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							141500 707.5 MHz		MFR	Tune-up Limit		141500 707.5 MHz		MFR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1		23.7		0	24.2		23.7		0	24.2
				1	25		23.7		0	24.2		23.7		0	24.2
				1	50		23.5		0	24.2		23.5		0	24.2
				25	12		23.8		0	24.2		23.8		0	24.2
			QPSK	1	1		23.6		0	24.2		23.6		0	24.2
				1	25		23.8		0	24.2		23.8		0	24.2
				1	50		23.7		0	24.2		23.7		0	24.2
				25	12		23.8		0	24.2		23.8		0	24.2
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz	MFR	Tune-up Limit	140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz	MFR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	23.8	23.7	23.6	0	24.2	23.8	23.7	23.6	0	24.2
				1	12	23.6	23.7	23.8	0	24.2	23.6	23.7	23.8	0	24.2
				1	23	23.8	23.5	23.6	0	24.2	23.8	23.5	23.6	0	24.2
				12	6	23.6	23.8	23.6	0	24.2	23.6	23.8	23.6	0	24.2
			QPSK	1	1	23.6	23.6	23.7	0	24.2	23.6	23.6	23.7	0	24.2
				1	12	23.6	23.8	23.7	0	24.2	23.6	23.8	23.7	0	24.2
				1	23	23.7	23.7	23.4	0	24.2	23.7	23.7	23.4	0	24.2
				12	6	23.6	23.7	23.5	0	24.2	23.6	23.7	23.5	0	24.2

NR Band 25 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							376500 1882.5 MHz		MPR	Tune-up Limit		376500 1882.5 MHz		MPR	Tune-up Limit
40	DFT-s	15	π/2 BPSK	1	1		22.4		0	23.1		18.1		0	18.6
				1	107		22.6		0	23.1		18.2		0	18.6
				1	214		22.4		0	23.1		18.1		0	18.6
				108	54		22.3		0	23.1		17.9		0	18.6
			QPSK	1	1		22.3		0	23.1		18.1		0	18.6
				1	107		22.5		0	23.1		17.9		0	18.6
				1	214		22.3		0	23.1		18.1		0	18.6
				108	54		22.3		0	23.1		17.9		0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							376500 1882.5 MHz		MPR	Tune-up Limit		376500 1882.5 MHz		MPR	Tune-up Limit
30	DFT-s	15	π/2 BPSK	1	1		22.5		0	23.1		17.9		0	18.6
				1	79		22.5		0	23.1		17.9		0	18.6
				1	158		22.3		0	23.1		18.0		0	18.6
				80	40		22.4		0	23.1		17.8		0	18.6
			QPSK	1	1		22.5		0	23.1		18.0		0	18.6
				1	79		22.5		0	23.1		18.1		0	18.6
				1	158		22.5		0	23.1		17.9		0	18.6
				80	40		22.4		0	23.1		17.9		0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							376500 1882.5 MHz		MPR	Tune-up Limit		376500 1882.5 MHz		MPR	Tune-up Limit
25	DFT-s	15	π/2 BPSK	1	1		22.5		0	23.1		17.9		0	18.6
				1	66		22.3		0	23.1		18.0		0	18.6
				1	131		22.4		0	23.1		18.0		0	18.6
				64	32		22.3		0	23.1		18.0		0	18.6
			QPSK	1	1		22.6		0	23.1		18.0		0	18.6
				1	66		22.4		0	23.1		18.0		0	18.6
				1	131		22.4		0	23.1		18.1		0	18.6
				64	32		22.3		0	23.1		18.0		0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						372000 1860 MHz	376500 1882.5 MHz	381000 1905 MHz	MPR	Tune-up Limit	372000 1860 MHz	376500 1882.5 MHz	381000 1905 MHz	MPR	Tune-up Limit
20	DFT-s	15	π/2 BPSK	1	1	22.6	22.5	22.4	0	23.1	18.2	18.2	17.9	0	18.6
				1	52	22.4	22.5	22.6	0	23.1	17.9	18.0	18.0	0	18.6
				1	104	22.6	22.4	22.4	0	23.1	18.1	18.0	17.9	0	18.6
				50	25	22.6	22.4	22.6	0	23.1	17.9	17.9	17.9	0	18.6
			QPSK	1	1	22.5	22.3	22.5	0	23.1	18.1	18.1	18.0	0	18.6
				1	52	22.7	22.3	22.6	0	23.1	18.0	17.9	18.0	0	18.6
				1	104	22.5	22.4	22.4	0	23.1	18.1	17.9	18.0	0	18.6
				50	25	22.6	22.3	22.5	0	23.1	18.1	18.0	18.2	0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						371500 1857.5 MHz	376500 1882.5 MHz	381500 1907.5 MHz	MPR	Tune-up Limit	371500 1857.5 MHz	376500 1882.5 MHz	381500 1907.5 MHz	MPR	Tune-up Limit
15	DFT-s	15	π/2 BPSK	1	1	22.3	22.4	22.3	0	23.1	18.0	18.0	18.0	0	18.6
				1	39	22.3	22.3	22.6	0	23.1	18.1	17.9	17.9	0	18.6
				1	77	22.5	22.3	22.6	0	23.1	17.9	17.9	18.0	0	18.6
				36	18	22.4	22.3	22.6	0	23.1	17.9	17.9	18.0	0	18.6
			QPSK	1	1	22.4	22.6	22.3	0	23.1	18.1	18.0	18.0	0	18.6
				1	39	22.4	22.3	22.6	0	23.1	18.0	18.0	17.9	0	18.6
				1	77	22.5	22.4	22.5	0	23.1	17.9	18.1	18.1	0	18.6
				36	18	22.3	22.4	22.6	0	23.1	18.0	18.0	17.9	0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						371000 1855 MHz	376500 1882.5 MHz	382000 1910 MHz	MPR	Tune-up Limit	371000 1855 MHz	376500 1882.5 MHz	382000 1910 MHz	MPR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1	22.3	22.3	22.3	0	23.1	18.1	18.0	18.2	0	18.6
				1	25	22.4	22.5	22.4	0	23.1	18.1	17.9	18.1	0	18.6
				1	50	22.4	22.3	22.4	0	23.1	18.0	18.0	18.0	0	18.6
				25	12	22.3	22.5	22.4	0	23.1	18.0	18.0	17.9	0	18.6
			QPSK	1	1	22.5	22.5	22.6	0	23.1	18.2	17.9	18.0	0	18.6
				1	25	22.2	22.5	22.3	0	23.1	18.2	18.2	17.9	0	18.6
				1	50	22.3	22.5	22.5	0	23.1	18.1	18.0	18.0	0	18.6
				25	12	22.3	22.6	22.4	0	23.1	18.1	18.0	18.0	0	18.6
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						370500 1852.5 MHz	376500 1882.5 MHz	382500 1912.5 MHz	MPR	Tune-up Limit	370500 1852.5 MHz	376500 1882.5 MHz	382500 1912.5 MHz	MPR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	22.3	22.3	22.3	0	23.1	18.1	18.0	17.9	0	18.6
				1	12	22.5	22.3	22.3	0	23.1	18.0	18.0	18.1	0	18.6
				1	23	22.3	22.4	22.4	0	23.1	18.0	18.1	18.2	0	18.6
				12	6	22.4	22.4	22.2	0	23.1	18.0	18.0	18.1	0	18.6
			QPSK	1	1	22.5	22.5	22.5	0	23.1	18.1	18.1	17.9	0	18.6
				1	12	22.2	22.5	22.6	0	23.1	18.1	18.1	18.1	0	18.6
				1	23	22.3	22.6	22.5	0	23.1	18.1	18.1	18.0	0	18.6
				12	6	22.3	22.5	22.5	0	23.1	17.9	18.0	17.9	0	18.6

NR Band 25 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						376500	1882.5 MHz	MPR	Tune-up Limit	376500	1882.5 MHz	MPR	Tune-up Limit
40	DFT-s	15	$\pi/2$ BPSK	1	1	17.4	18.2	0	18.2	18.5	19.1	0	19.1
				1	107	17.2	18.2	0	18.2	18.6	19.1	0	19.1
				1	214	17.7	18.2	0	18.2	18.5	19.1	0	19.1
				108	54	17.8	18.2	0	18.2	18.5	19.1	0	19.1
			QPSK	1	1	17.3	18.2	0	18.2	18.5	19.1	0	19.1
				1	107	17.1	18.2	0	18.2	18.5	19.1	0	19.1
				1	214	17.2	18.2	0	18.2	18.5	19.1	0	19.1
				108	54	17.7	18.2	0	18.2	18.5	19.1	0	19.1
30	DFT-s	15	$\pi/2$ BPSK	1	1	17.4	18.2	0	18.2	18.5	19.1	0	19.1
				1	79	17.3	18.2	0	18.2	18.6	19.1	0	19.1
				1	158	17.7	18.2	0	18.2	18.6	19.1	0	19.1
				80	40	17.7	18.2	0	18.2	18.5	19.1	0	19.1
			QPSK	1	1	17.4	18.2	0	18.2	18.6	19.1	0	19.1
				1	79	17.3	18.2	0	18.2	18.5	19.1	0	19.1
				1	158	17.2	18.2	0	18.2	18.6	19.1	0	19.1
				80	40	17.7	18.2	0	18.2	18.5	19.1	0	19.1
25	DFT-s	15	$\pi/2$ BPSK	1	1	17.7	18.2	0	18.2	18.5	19.1	0	19.1
				1	66	17.3	18.2	0	18.2	18.5	19.1	0	19.1
				1	131	17.2	18.2	0	18.2	18.5	19.1	0	19.1
				64	32	17.7	18.2	0	18.2	18.5	19.1	0	19.1
			QPSK	1	1	17.1	18.2	0	18.2	18.6	19.1	0	19.1
				1	66	17.4	18.2	0	18.2	18.5	19.1	0	19.1
				1	131	17.3	18.2	0	18.2	18.5	19.1	0	19.1
				64	32	17.7	18.2	0	18.2	18.6	19.1	0	19.1
20	DFT-s	15	$\pi/2$ BPSK	1	1	17.2	17.7	0	18.2	18.5	18.6	0	19.1
				1	52	17.7	17.1	0	18.2	18.5	18.5	0	19.1
				1	104	17.7	17.1	0	18.2	18.6	18.5	0	19.1
				50	25	17.3	17.7	0	18.2	18.5	18.5	0	19.1
			QPSK	1	1	17.1	17.3	0	18.2	18.5	18.6	0	19.1
				1	52	17.7	17.1	0	18.2	18.5	18.6	0	19.1
				1	104	17.7	17.1	0	18.2	18.5	18.6	0	19.1
				50	25	17.3	17.7	0	18.2	18.6	18.5	0	19.1
15	DFT-s	15	$\pi/2$ BPSK	1	1	17.3	17.4	0	18.2	18.5	18.5	0	19.1
				1	39	17.7	17.2	0	18.2	18.6	18.5	0	19.1
				1	77	17.7	17.3	0	18.2	18.5	18.6	0	19.1
				36	18	17.3	17.7	0	18.2	18.5	18.5	0	19.1
			QPSK	1	1	17.1	17.5	0	18.2	18.5	18.5	0	19.1
				1	39	17.7	17.4	0	18.2	18.5	18.6	0	19.1
				1	77	17.7	17.4	0	18.2	18.6	18.5	0	19.1
				36	18	17.2	17.7	0	18.2	18.5	18.5	0	19.1
10	DFT-s	15	$\pi/2$ BPSK	1	1	17.5	17.5	0	18.2	18.6	18.6	0	19.1
				1	25	17.7	17.4	0	18.2	18.5	18.6	0	19.1
				1	50	17.7	17.5	0	18.2	18.5	18.5	0	19.1
				25	12	17.7	17.7	0	18.2	18.5	18.5	0	19.1
			QPSK	1	1	17.6	17.7	0	18.2	18.6	18.6	0	19.1
				1	25	17.7	17.5	0	18.2	18.5	18.5	0	19.1
				1	50	17.6	17.5	0	18.2	18.5	18.5	0	19.1
				25	12	17.7	17.7	0	18.2	18.5	18.5	0	19.1
5	DFT-s	15	$\pi/2$ BPSK	1	1	17.6	17.7	0	18.2	18.5	18.6	0	19.1
				1	12	17.7	17.6	0	18.2	18.5	18.5	0	19.1
				1	23	17.7	17.6	0	18.2	18.5	18.5	0	19.1
				12	6	17.6	17.6	0	18.2	18.5	18.6	0	19.1
			QPSK	1	1	17.6	17.7	0	18.2	18.5	18.6	0	19.1
				1	12	17.7	17.7	0	18.2	18.6	18.6	0	19.1
				1	23	17.7	17.7	0	18.2	18.5	18.6	0	19.1
				12	6	17.6	17.7	0	18.2	18.6	18.5	0	19.1

NR Band 30 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						462000	2310 MHz	MPR	Tune-up Limit	462000	2310 MHz	MPR	Tune-up Limit
10	DFT-s	15	$\pi/2$ BPSK	1	1	23.3		0	24.0	18.7		0	19.3
				1	25	23.6		0	24.0	18.9		0	19.3
				1	50	23.4		0	24.0	18.7		0	19.3
				25	12	23.3		0	24.0	18.6		0	19.3
			QPSK	1	1	23.3		0	24.0	18.8		0	19.3
				1	25	23.3		0	24.0	18.8		0	19.3
				1	50	23.5		0	24.0	18.5		0	19.3
				25	12	23.2		0	24.0	18.6		0	19.3
5	DFT-s	15	$\pi/2$ BPSK	1	1	23.4		0	24.0	18.7		0	19.3
				1	12	23.3		0	24.0	18.8		0	19.3
				1	23	23.3		0	24.0	18.6		0	19.3
				12	6	23.3		0	24.0	18.7		0	19.3
			QPSK	1	1	23.3		0	24.0	18.8		0	19.3
				1	12	23.3		0	24.0	18.7		0	19.3
				1	23	23.4		0	24.0	18.6		0	19.3
				12	6	23.3		0	24.0	18.6		0	19.3

NR Band 30 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						462000	2310 MHz	MPR	Tune-up Limit	462000	2310 MHz	MPR	Tune-up Limit
10	DFT-s	15	$\pi/2$ BPSK	1	1	17.9		0	18.4	17.9		0	18.2
				1	25	17.7		0	18.4	17.7		0	18.2
				1	50	17.7		0	18.4	17.7		0	18.2
				25	12	18.0		0	18.4	18.0		0	18.2
			QPSK	1	1	17.8		0	18.4	17.8		0	18.2
				1	25	17.4		0	18.4	17.4		0	18.2
				1	50	17.3		0	18.4	17.3		0	18.2
				25	12	17.7		0	18.4	17.7		0	18.2
5	DFT-s	15	$\pi/2$ BPSK	1	1	17.9		0	18.4	17.9		0	18.2
				1	12	17.3		0	18.4	17.3		0	18.2
				1	23	17.2		0	18.4	17.2		0	18.2
				12	6	17.7		0	18.4	17.7		0	18.2
			QPSK	1	1	17.9		0	18.4	17.9		0	18.2
				1	12	17.3		0	18.4	17.3		0	18.2
				1	23	17.2		0	18.4	17.2		0	18.2
				12	6	17.9		0	18.4	17.9		0	18.2

NR Band 41 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						518598	518598	MFR	Tune-up Limit	518598	518598	MFR	Tune-up Limit
100	DFT-s	30	$\pi/2$ BPSK	1	1	23.1	23.7	0	24.2	18.1	18.7	0	19.1
				1	136	23.8	23.7	0	24.2	18.8	18.7	0	19.1
				1	271	23.6	23.7	0	24.2	18.6	18.7	0	19.1
				135	67	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	1	23.5	23.6	0	24.2	18.5	18.6	0	19.1
			QPSK	1	136	23.6	23.7	0	24.2	18.6	18.7	0	19.1
				1	271	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				135	67	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	122	23.7	23.7	0	24.2	18.7	18.7	0	19.1
90	DFT-s	30	$\pi/2$ BPSK	1	1	23.3	23.7	0	24.2	18.3	18.7	0	19.1
				1	122	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	243	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				121	60	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	1	23.4	23.4	0	24.2	18.4	18.4	0	19.1
			QPSK	1	122	23.6	23.6	0	24.2	18.7	18.7	0	19.1
				1	243	23.6	23.6	0	24.2	18.6	18.6	0	19.1
				121	60	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	1	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	108	23.7	23.7	0	24.2	18.7	18.7	0	19.1
80	DFT-s	30	$\pi/2$ BPSK	1	1	23.3	23.7	0	24.2	18.3	18.7	0	19.1
				1	108	23.5	23.5	0	24.2	18.5	18.5	0	19.1
				1	215	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				108	54	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	1	23.4	23.4	0	24.2	18.4	18.4	0	19.1
			QPSK	1	108	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	215	23.4	23.4	0	24.2	18.5	18.5	0	19.1
				108	54	23.2	23.2	0	24.2	18.2	18.2	0	19.1
				1	1	23.6	23.6	0	24.2	18.6	18.6	0	19.1
				1	80	23.6	23.6	0	24.2	18.7	18.7	0	19.1
60	DFT-s	30	$\pi/2$ BPSK	1	1	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	80	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	160	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				81	40	23.7	23.7	0	24.2	18.7	18.7	0	19.1
				1	1	23.6	23.6	0	24.2	18.7	18.7	0	19.1
			QPSK	1	80	23.6	23.6	0	24.2	18.7	18.7	0	19.1
				1	160	23.6	23.6	0	24.2	18.6	18.6	0	19.1
				81	40	23.5	23.5	0	24.2	18.5	18.5	0	19.1
				1	1	23.2	23.2	0	24.2	18.2	18.2	0	19.1
				1	66	23.2	23.2	0	24.2	18.2	18.2	0	19.1
50	DFT-s	30	$\pi/2$ BPSK	1	1	23.1	23.1	0	24.2	18.1	18.1	0	19.1
				1	131	23.1	23.1	0	24.2	18.1	18.1	0	19.1
				64	32	23.4	23.4	0	24.2	18.5	18.5	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	66	23.2	23.2	0	24.2	18.3	18.3	0	19.1
			QPSK	1	131	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	66	23.2	23.2	0	24.2	18.3	18.3	0	19.1
				1	131	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				64	32	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	1	23.2	23.2	0	24.2	18.2	18.2	0	19.1
40	DFT-s	30	$\pi/2$ BPSK	1	1	23.1	23.1	0	24.2	18.1	18.1	0	19.1
				1	52	23.3	23.3	0	24.2	18.4	18.4	0	19.1
				1	104	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				50	25	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1
			QPSK	1	52	23.7	23.4	0	24.2	18.8	18.4	0	19.1
				1	104	23.3	23.4	0	24.2	18.3	18.4	0	19.1
				50	25	23.4	23.3	0	24.2	18.4	18.3	0	19.1
				1	1	23.2	23.2	0	24.2	18.2	18.2	0	19.1
				1	1	23.4	23.4	0	24.2	18.4	18.4	0	19.1
30	DFT-s	30	$\pi/2$ BPSK	1	1	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	38	23.7	23.6	0	24.2	18.8	18.6	0	19.1
				1	76	23.5	23.5	0	24.2	18.5	18.6	0	19.1
				36	18	23.4	23.4	0	24.2	18.4	18.4	0	19.1
				1	1	23.4	23.2	0	24.2	18.4	18.2	0	19.1
			QPSK	1	38	23.7	23.2	0	24.2	18.7	18.2	0	19.1
				1	76	23.6	23.5	0	24.2	18.7	18.5	0	19.1
				36	18	23.7	23.6	0	24.2	18.7	18.5	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1
20	DFT-s	30	$\pi/2$ BPSK	1	1	23.3	23.2	0	24.2	18.3	18.2	0	19.1
				1	25	23.7	23.5	0	24.2	18.7	18.5	0	19.1
				1	49	23.3	23.4	0	24.2	18.3	18.4	0	19.1
				25	12	23.3	23.4	0	24.2	18.3	18.4	0	19.1
				1	1	23.4	23.3	0	24.2	18.4	18.3	0	19.1
			QPSK	1	25	23.7	23.4	0	24.2	18.7	18.4	0	19.1
				1	49	23.5	23.4	0	24.2	18.5	18.4	0	19.1
				25	12	23.3	23.3	0	24.2	18.3	18.3	0	19.1
				1	1	23.3	23.2	0	24.2	18.3	18.2	0	19.1
				1	1	23.3	23.3	0	24.2	18.3	18.3	0	19.1

NR Band 41 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						518598	518598	MFR	Tune-up Limit	518598	518598	MFR	Tune-up Limit
100	DFT-s	30	$\pi/2$ BPSK	1	1	14.6	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	136	15.2		0	15.7	16.3		0	16.9
				1	271	14.7		0	15.7	16.3		0	16.9
				135	67	14.9		0	15.7	16.5		0	16.9
				1	1	15.0		0	15.7	16.3		0	16.9
			QPSK	1	136	14.8		0	15.7	16.3		0	16.9
				1	271	14.5		0	15.7	16.3		0	16.9
				135	67	15.0		0	15.7	16.4		0	16.9
				1	1	14.9		0	15.7	16.3		0	16.9
				1	136	15.1		0	15.7	16.3		0	16.9
90	DFT-s	30	$\pi/2$ BPSK	1	1	14.9	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	122	14.7		0	15.7	16.3		0	16.9
				1	243	14.7		0	15.7	16.3		0	16.9
				121	60	14.6		0	15.7	16.3		0	16.9
				1	1	15.1		0	15.7	16.3		0	16.9
			QPSK	1	122	14.7		0	15.7	16.3		0	16.9
				1	243	15.1		0	15.7	16.4		0	16.9
				121	60	14.9		0	15.7	16.3		0	16.9
				1	1	15.1		0	15.7	16.3		0	16.9
				1	122	14.7		0	15.7	16.3		0	16.9
80	DFT-s	30	$\pi/2$ BPSK	1	1	15.1	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	108	14.7		0	15.7	16.3		0	16.9
				1	215	14.7		0	15.7	16.3		0	16.9
				108	54	14.5		0	15.7	16.3		0	16.9
				1	1	15.0		0	15.7	16.4		0	16.9
			QPSK	1	108	15.2		0	15.7	16.4		0	16.9
				1	215	14.8		0	15.7	16.4		0	16.9
				108	54	14.5		0	15.7	16.3		0	16.9
				1	1	15.1		0	15.7	16.3		0	16.9
				1	108	14.7		0	15.7	16.3		0	16.9
60	DFT-s	30	$\pi/2$ BPSK	1	1	14.6	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	80	15.2		0	15.7	16.3		0	16.9
				1	160	14.8		0	15.7	16.3		0	16.9
				81	40	14.6		0	15.7	16.3		0	16.9
				1	1	14.4		0	15.7	16.3		0	16.9
			QPSK	1	80	15.2		0	15.7	16.3		0	16.9
				1	160	15.0		0	15.7	16.3		0	16.9
				81	40	14.7		0	15.7	16.4		0	16.9
				1	1	15.2		0	15.7	16.3		0	16.9
				1	80	14.6		0	15.7	16.3		0	16.9
50	DFT-s	30	$\pi/2$ BPSK	1	1	15.2	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	66	15.0		0	15.7	16.3		0	16.9
				1	131	14.8		0	15.7	16.3		0	16.9
				64	32	14.6		0	15.7	16.4		0	16.9
				1	1	15.0		0	15.7	16.4		0	16.9
			QPSK	1	66	15.2		0	15.7	16.3		0	16.9
				1	131	14.8		0	15.7	16.3		0	16.9
				64	32	14.6		0	15.7	16.4		0	16.9
				1	1	15.2		0	15.7	16.3		0	16.9
				1	66	14.6		0	15.7	16.3		0	16.9
40	DFT-s	30	$\pi/2$ BPSK	1	1	14.5	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	52	15.2		0	15.7	16.3		0	16.9
				1	104	14.5		0	15.7	16.3		0	16.9
				50	25	14.6		0	15.7	16.3		0	16.9
				1	1	14.1		0	15.7	16.3		0	16.9
			QPSK	1	52	15.2		0	15.7	16.3		0	16.9
				1	104	14.3		0	15.7	16.3		0	16.9
				50	25	14.3		0	15.7	16.3		0	16.9
				1	1	14.1		0	15.7	16.3		0	16.9
				1	52	14.6		0	15.7	16.3		0	16.9
30	DFT-s	30	$\pi/2$ BPSK	1	1	14.3	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	38	15.2		0	15.7	16.4		0	16.9
				1	76	14.2		0	15.7	16.3		0	16.9
				36	18	14.6		0	15.7	16.3		0	16.9
				1	1	14.2		0	15.7	16.3		0	16.9
			QPSK	1	38	15.2		0	15.7	16.3		0	16.9
				1	76	14.8		0	15.7	16.4		0	16.9
				36	18	14.1		0	15.7	16.3		0	16.9
				1	1	14.1		0	15.7	16.3		0	16.9
				1	38	14.4		0	15.7	16.3		0	16.9
20	DFT-s	30	$\pi/2$ BPSK	1	1	14.3	2592.99 MHz	0	15.7	16.3	2592.99 MHz	0	16.9
				1	25	15.2		0	15.7	16.4		0	16.9
				1	49	14.1		0	15.7	16.3		0	16.9
				25	12	14.4		0	15.7	16.3		0	16.9
				1	1	14.2		0	15.7	16.3		0	16.9
			QPSK	1	25	15.2		0	15.7	16.3		0	16.9
				1	49	14.6		0	15.7	16.4		0	16.9
				25	12	14.1		0	15.7	16.3		0	16.9
				1	1	14.3		0	15.7	16.3		0	16.9
				1	25	15.0		0	15.7	16.3		0	16.9

NR Band 66 Measured Results (ANT1) (continued)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						349000 1745 MHz	MPR	Tune-up Limit	349000 1745 MHz	MPR	Tune-up Limit	349000 1745 MHz	MPR	Tune-up Limit	
40	DFT-s	15	$\pi/2$ BPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	107	24.1	0	24.3	21.3	0	21.5	21.3	0	21.5	
				1	214	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
				108	54	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
			QPSK	1	1	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
				1	107	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	214	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				108	54	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
30	DFT-s	15	$\pi/2$ BPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	79	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
				1	158	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
				80	40	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
			QPSK	1	1	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
				1	79	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
				1	158	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
				80	40	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
20	DFT-s	15	$\pi/2$ BPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	52	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
				1	104	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
				50	25	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
			QPSK	1	1	23.7	0	24.3	20.9	0	21.5	21.1	0	21.5	
				1	52	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	104	24.0	0	24.3	21.2	0	21.5	21.1	0	21.5	
				50	25	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
15	DFT-s	15	$\pi/2$ BPSK	1	1	24.0	0	24.3	21.2	0	21.5	21.1	0	21.5	
				1	39	23.9	0	24.3	21.1	0	21.5	21.2	0	21.5	
				1	77	23.6	0	24.3	20.8	0	21.5	21.1	0	21.5	
				36	18	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
			QPSK	1	1	24.0	0	24.3	21.2	0	21.5	21.1	0	21.5	
				1	39	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
				1	77	23.8	0	24.3	21.0	0	21.5	21.1	0	21.5	
				36	18	23.8	0	24.3	21.0	0	21.5	20.9	0	21.5	
10	DFT-s	15	$\pi/2$ BPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
				1	25	24.0	0	24.3	21.2	0	21.5	21.0	0	21.5	
				1	50	23.7	0	24.3	20.9	0	21.5	20.9	0	21.5	
				25	12	23.9	0	24.3	21.1	0	21.5	21.0	0	21.5	
			QPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.0	0	21.5	
				1	25	23.8	0	24.3	21.0	0	21.5	21.2	0	21.5	
				1	50	23.8	0	24.3	21.0	0	21.5	21.1	0	21.5	
				25	12	23.9	0	24.3	21.1	0	21.5	21.0	0	21.5	
5	DFT-s	15	$\pi/2$ BPSK	1	1	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
				1	12	24.0	0	24.3	21.2	0	21.5	21.2	0	21.5	
				1	23	23.8	0	24.3	21.0	0	21.5	21.0	0	21.5	
				12	6	23.9	0	24.3	21.1	0	21.5	21.1	0	21.5	
			QPSK	1	1	23.9	0	24.3	21.1	0	21.5	21.0	0	21.5	
				1	12	23.9	0	24.3	21.1	0	21.5	21.2	0	21.5	
				1	23	23.9	0	24.3	21.1	0	21.5	21.0	0	21.5	
				12	6	23.9	0	24.3	21.1	0	21.5	21.2	0	21.5	

NR Band 66 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							349000 1745 MHz		MPR	Tune-up Limit		349000 1745 MHz		MPR	Tune-up Limit
40	DFT-s	15	π/2 BPSK	1	1		17.7		0	18.2		19.3		0	20
				1	107		17.6		0	18.2		19.3		0	20
				1	214		17.6		0	18.2		19.4		0	20
				108	54		17.8		0	18.2		19.5		0	20
			QPSK	1	1		17.7		0	18.2		19.3		0	20
				1	107		17.7		0	18.2		19.3		0	20
				1	214		17.6		0	18.2		19.3		0	20
				108	54		17.7		0	18.2		19.3		0	20
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
							349000 1745 MHz		MPR	Tune-up Limit		349000 1745 MHz		MPR	Tune-up Limit
30	DFT-s	15	π/2 BPSK	1	1		17.7		0	18.2		19.3		0	20
				1	79		17.5		0	18.2		19.4		0	20
				1	158		17.5		0	18.2		19.4		0	20
				80	40		17.6		0	18.2		19.3		0	20
			QPSK	1	1		17.7		0	18.2		19.3		0	20
				1	79		17.6		0	18.2		19.3		0	20
				1	158		17.5		0	18.2		19.3		0	20
				80	40		17.7		0	18.2		19.4		0	20
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						344000 1720 MHz	349000 1745 MHz	354000 1770 MHz	MPR	Tune-up Limit	344000 1720 MHz	349000 1745 MHz	354000 1770 MHz	MPR	Tune-up Limit
20	DFT-s	15	π/2 BPSK	1	1	17.4	17.6	17.4	0	18.2	19.3	19.3	19.3	0	20
				1	52	17.7	17.5	17.6	0	18.2	19.4	19.3	19.4	0	20
				1	104	17.7	17.5	17.5	0	18.2	19.3	19.3	19.4	0	20
				50	25	17.6	17.7	17.4	0	18.2	19.3	19.4	19.3	0	20
			QPSK	1	1	17.3	17.6	17.4	0	18.2	19.4	19.3	19.3	0	20
				1	52	17.5	17.5	17.6	0	18.2	19.4	19.3	19.3	0	20
				1	104	17.6	17.6	17.6	0	18.2	19.4	19.3	19.4	0	20
				50	25	17.7	17.5	17.4	0	18.2	19.4	19.3	19.4	0	20
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						343500 1717.5 MHz	349000 1745 MHz	354500 1772.5 MHz	MPR	Tune-up Limit	343500 1717.5 MHz	349000 1745 MHz	354500 1772.5 MHz	MPR	Tune-up Limit
15	DFT-s	15	π/2 BPSK	1	1	17.5	17.7	17.3	0	18.2	19.3	19.3	19.3	0	20
				1	39	17.6	17.6	17.6	0	18.2	19.3	19.3	19.4	0	20
				1	77	17.6	17.6	17.6	0	18.2	19.3	19.4	19.4	0	20
				36	18	17.7	17.6	17.3	0	18.2	19.4	19.4	19.4	0	20
			QPSK	1	1	17.5	17.6	17.4	0	18.2	19.3	19.3	19.3	0	20
				1	39	17.7	17.7	17.5	0	18.2	19.4	19.3	19.4	0	20
				1	77	17.5	17.7	17.5	0	18.2	19.3	19.4	19.3	0	20
				36	18	17.6	17.7	17.3	0	18.2	19.4	19.3	19.4	0	20
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						343000 1715 MHz	349000 1745 MHz	355000 1775 MHz	MPR	Tune-up Limit	343000 1715 MHz	349000 1745 MHz	355000 1775 MHz	MPR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1	17.6	17.7	17.6	0	18.2	19.3	19.4	19.4	0	20
				1	25	17.6	17.5	17.5	0	18.2	19.4	19.3	19.4	0	20
				1	50	17.7	17.6	17.7	0	18.2	19.3	19.4	19.3	0	20
				25	12	17.7	17.6	17.7	0	18.2	19.3	19.4	19.3	0	20
			QPSK	1	1	17.6	17.7	17.7	0	18.2	19.4	19.4	19.3	0	20
				1	25	17.6	17.6	17.5	0	18.2	19.3	19.4	19.3	0	20
				1	50	17.5	17.7	17.7	0	18.2	19.3	19.4	19.4	0	20
				25	12	17.6	17.5	17.7	0	18.2	19.4	19.3	19.4	0	20
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						342500 1712.5 MHz	349000 1745 MHz	355500 1777.5 MHz	MPR	Tune-up Limit	342500 1712.5 MHz	349000 1745 MHz	355500 1777.5 MHz	MPR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	17.6	17.7	17.6	0	18.2	19.3	19.4	19.3	0	20
				1	12	17.7	17.7	17.7	0	18.2	19.4	19.4	19.4	0	20
				1	23	17.6	17.7	17.7	0	18.2	19.4	19.4	19.3	0	20
				12	6	17.7	17.7	17.6	0	18.2	19.4	19.3	19.3	0	20
			QPSK	1	1	17.6	17.6	17.6	0	18.2	19.4	19.4	19.4	0	20
				1	12	17.6	17.6	17.7	0	18.2	19.3	19.3	19.4	0	20
				1	23	17.5	17.7	17.6	0	18.2	19.4	19.4	19.3	0	20
				12	6	17.5	17.6	17.6	0	18.2	19.3	19.3	19.4	0	20

NR Band 71 Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
							136100		MPR	Tune-up Limit		136100		MPR	Tune-up Limit		
							680.5 MHz					680.5 MHz					
20	DFT-s	15	π/2 BPSK	1	1		25.0		0	25.7		25.0		0	25.7		
				1	52		25.3		0	25.7		25.3		0	25.7		
				1	104		24.8		0	25.7		24.8		0	25.7		
				50	25		24.8		0	25.7		24.8		0	25.7		
			QPSK	1	1		25.2		0	25.7		25.2		0	25.7		
				1	52		25.0		0	25.7		25.0		0	25.7		
				1	104		25.0		0	25.7		25.0		0	25.7		
				50	25		24.8		0	25.7		24.8		0	25.7		
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
							136100		MPR	Tune-up Limit		136100		MPR	Tune-up Limit		
							680.5 MHz					680.5 MHz					
15	DFT-s	15	π/2 BPSK	1	1		25.1		0	25.7		25.1		0	25.7		
				1	39		24.9		0	25.7		24.9		0	25.7		
				1	77		25.1		0	25.7		25.1		0	25.7		
				36	18		25.0		0	25.7		25.0		0	25.7		
			QPSK	1	1		25.2		0	25.7		25.2		0	25.7		
				1	39		25.0		0	25.7		25.0		0	25.7		
				1	77		25.0		0	25.7		25.0		0	25.7		
				36	18		25.0		0	25.7		25.0		0	25.7		
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
							133600	136100	138600	MPR	Tune-up Limit		133600	136100	138600	MPR	Tune-up Limit
							668 MHz	680.5 MHz	693 MHz				668 MHz	680.5 MHz	693 MHz		
10	DFT-s	15	π/2 BPSK	1	1	25.0	24.9	25.0	0	25.7	25.0	24.9	25.0	0	25.7		
				1	25	25.0	24.8	24.9	0	25.7	25.0	24.8	24.9	0	25.7		
				1	50	24.9	24.9	24.8	0	25.7	24.9	24.9	24.8	0	25.7		
				25	12	24.9	24.9	24.8	0	25.7	24.9	24.9	24.8	0	25.7		
			QPSK	1	1	25.1	25.3	25.0	0	25.7	25.1	25.3	25.0	0	25.7		
				1	25	25.0	25.2	24.9	0	25.7	25.0	25.2	24.9	0	25.7		
				1	50	24.9	24.9	24.9	0	25.7	24.9	24.9	24.9	0	25.7		
				25	12	24.9	24.8	24.8	0	25.7	24.9	24.8	24.8	0	25.7		
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
							133100	136100	139100	MPR	Tune-up Limit		133100	136100	139100	MPR	Tune-up Limit
							665.5 MHz	680.5 MHz	695.5 MHz				665.5 MHz	680.5 MHz	695.5 MHz		
5	DFT-s	15	π/2 BPSK	1	1	25.1	25.1	25.2	0	25.7	25.1	25.1	25.2	0	25.7		
				1	12	25.1	25.0	25.1	0	25.7	25.1	25.0	25.1	0	25.7		
				1	23	25.1	25.0	25.0	0	25.7	25.1	25.0	25.0	0	25.7		
				12	6	25.2	24.9	25.2	0	25.7	25.2	24.9	25.2	0	25.7		
			QPSK	1	1	25.2	25.2	25.1	0	25.7	25.2	25.2	25.1	0	25.7		
				1	12	25.1	25.2	25.0	0	25.7	25.1	25.2	25.0	0	25.7		
				1	23	25.0	25.3	25.0	0	25.7	25.0	25.3	25.0	0	25.7		
				12	6	25.1	25.0	25.1	0	25.7	25.1	25.0	25.1	0	25.7		

NR Band 71 Measured Results (ANT2)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
							136100 680.5 MHz		MPR	Tune-up Limit		136100 680.5 MHz		MPR	Tune-up Limit
20	DFT-s	15	π/2 BPSK	1	1		23.6		0	24.2		23.6		0	24.2
				1	52		23.8		0	24.2		23.8		0	24.2
				1	104		23.4		0	24.2		23.4		0	24.2
				50	25		23.5		0	24.2		23.5		0	24.2
				1	1		23.0		0	24.2		23.0		0	24.2
			QPSK	1	52		23.8		0	24.2		23.8		0	24.2
				1	104		23.6		0	24.2		23.6		0	24.2
				50	25		23.5		0	24.2		23.5		0	24.2
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						136100 680.5 MHz		MPR	Tune-up Limit		136100 680.5 MHz		MPR	Tune-up Limit	
15	DFT-s	15	π/2 BPSK	1	1		23.6		0	24.2		23.6		0	24.2
				1	39		23.7		0	24.2		23.7		0	24.2
				1	77		23.3		0	24.2		23.3		0	24.2
				36	18		23.3		0	24.2		23.3		0	24.2
				1	1		23.6		0	24.2		23.6		0	24.2
			QPSK	1	39		23.7		0	24.2		23.7		0	24.2
				1	77		23.6		0	24.2		23.6		0	24.2
				36	18		23.3		0	24.2		23.3		0	24.2
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						133600 668 MHz	136100 680.5 MHz	138600 693 MHz	MPR	Tune-up Limit	133600 668 MHz	136100 680.5 MHz	138600 693 MHz	MPR	Tune-up Limit
10	DFT-s	15	π/2 BPSK	1	1	23.3	23.3	23.4	0	24.2	23.3	23.3	23.4	0	24.2
				1	25	23.8	23.8	23.7	0	24.2	23.8	23.8	23.7	0	24.2
				1	50	23.3	23.4	23.2	0	24.2	23.3	23.4	23.2	0	24.2
				25	12	23.4	23.4	23.6	0	24.2	23.4	23.4	23.6	0	24.2
				1	1	23.2	23.2	23.3	0	24.2	23.2	23.2	23.3	0	24.2
			QPSK	1	25	23.7	23.8	23.7	0	24.2	23.7	23.8	23.7	0	24.2
				1	50	23.3	23.6	23.2	0	24.2	23.3	23.6	23.2	0	24.2
				25	12	23.4	23.5	23.4	0	24.2	23.4	23.5	23.4	0	24.2
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						133100 665.5 MHz	136100 680.5 MHz	139100 695.5 MHz	MPR	Tune-up Limit	133100 665.5 MHz	136100 680.5 MHz	139100 695.5 MHz	MPR	Tune-up Limit
5	DFT-s	15	π/2 BPSK	1	1	23.5	23.6	23.7	0	24.2	23.5	23.6	23.7	0	24.2
				1	12	23.7	23.8	23.8	0	24.2	23.7	23.8	23.8	0	24.2
				1	23	23.3	23.4	23.3	0	24.2	23.3	23.4	23.3	0	24.2
				12	6	23.6	23.7	23.7	0	24.2	23.6	23.7	23.7	0	24.2
				1	1	23.4	23.6	23.6	0	24.2	23.4	23.6	23.6	0	24.2
			QPSK	1	12	23.7	23.8	23.7	0	24.2	23.7	23.8	23.7	0	24.2
				1	23	23.6	23.6	23.6	0	24.2	23.6	23.6	23.6	0	24.2
				12	6	23.6	23.6	23.8	0	24.2	23.6	23.6	23.8	0	24.2

NR Band 77 (Block A) Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						633332	3499.98 MHz	MPR	Tune-up Limit	633332	3499.98 MHz	MPR	Tune-up Limit
100	DFT-s	30	$\pi/2$ BPSK	1	1	25.2		0	25.4	20.4		0	20.7
				1	136	25.2		0	25.4	20.6		0	20.7
				1	271	24.9		0	25.4	20.3		0	20.7
				135	67	25.1		0	25.4	20.5		0	20.7
			QPSK	1	1	25.1		0	25.4	20.6		0	20.7
				1	136	25.0		0	25.4	20.4		0	20.7
				1	271	24.9		0	25.4	20.2		0	20.7
				135	67	25.0		0	25.4	20.4		0	20.7
90	DFT-s	30	$\pi/2$ BPSK	1	1	25.1		0	25.4	20.6		0	20.7
				1	122	25.0		0	25.4	20.3		0	20.7
				1	243	25.0		0	25.4	20.2		0	20.7
				121	60	25.2		0	25.4	20.6		0	20.7
			QPSK	1	1	25.2		0	25.4	20.6		0	20.7
				1	122	25.0		0	25.4	20.4		0	20.7
				1	243	25.0		0	25.4	20.4		0	20.7
				121	60	25.0		0	25.4	20.4		0	20.7
80	DFT-s	30	$\pi/2$ BPSK	1	1	24.9		0	25.4	20.3		0	20.7
				1	108	24.9		0	25.4	20.3		0	20.7
				1	215	25.0		0	25.4	20.7		0	20.7
				108	54	25.2		0	25.4	20.7		0	20.7
			QPSK	1	1	25.0		0	25.4	20.4		0	20.7
				1	108	25.2		0	25.4	20.4		0	20.7
				1	215	25.1		0	25.4	20.3		0	20.7
				108	54	25.2		0	25.4	20.5		0	20.7
70	DFT-s	30	$\pi/2$ BPSK	1	1	25.1		0	25.4	20.7		0	20.7
				1	91	25.1		0	25.4	20.5		0	20.7
				1	187	25.0		0	25.4	20.3		0	20.7
				94	47	25.0		0	25.4	20.4		0	20.7
			QPSK	1	1	25.2		0	25.4	20.6		0	20.7
				1	91	25.0		0	25.4	20.4		0	20.7
				1	187	25.0		0	25.4	20.2		0	20.7
				94	47	24.9		0	25.4	20.4		0	20.7
60	DFT-s	30	$\pi/2$ BPSK	1	1	25.2		0	25.4	20.7		0	20.7
				1	80	25.2		0	25.4	20.5		0	20.7
				1	160	25.2		0	25.4	20.5		0	20.7
				81	40	25.2		0	25.4	20.6		0	20.7
			QPSK	1	1	25.1		0	25.4	20.6		0	20.7
				1	80	25.2		0	25.4	20.5		0	20.7
				1	160	25.1		0	25.4	20.6		0	20.7
				81	40	25.1		0	25.4	20.6		0	20.7
50	DFT-s	30	$\pi/2$ BPSK	1	1	25.1		0	25.4	20.7		0	20.7
				1	66	25.1		0	25.4	20.6		0	20.7
				1	131	25.1		0	25.4	20.5		0	20.7
				64	32	25.2		0	25.4	20.6		0	20.7
			QPSK	1	1	25.1		0	25.4	20.7		0	20.7
				1	66	25.2		0	25.4	20.4		0	20.7
				1	131	25.2		0	25.4	20.6		0	20.7
				64	32	25.1		0	25.4	20.6		0	20.7
40	DFT-s	30	$\pi/2$ BPSK	1	1	25.1		0	25.4	20.5		0	20.7
				1	52	25.1		0	25.4	20.5		0	20.7
				1	104	25.1		0	25.4	20.7		0	20.7
				50	25	25.3		0	25.4	20.7		0	20.7
			QPSK	1	1	25.1		0	25.4	20.6		0	20.7
				1	52	25.0		0	25.4	20.5		0	20.7
				1	104	25.0		0	25.4	20.6		0	20.7
				50	25	25.0		0	25.4	20.6		0	20.7

NR Band 77 (Block A) Measured Results (ANT1) (continued)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						633332	3499.98 MHz		MPR	Tune-up Limit	633332	3499.98 MHz		MPR	Tune-up Limit
30	DFT-s	30	$\pi/2$ BPSK	1	1	25.0			0	25.4	20.5			0	20.7
				1	38	25.1			0	25.4	20.4			0	20.7
				1	76	25.2			0	25.4	20.3			0	20.7
				36	18	25.2			0	25.4	20.3			0	20.7
				1	1	25.0			0	25.4	20.4			0	20.7
			QPSK	1	38	25.1			0	25.4	20.3			0	20.7
				1	76	25.1			0	25.4	20.5			0	20.7
				36	18	25.1			0	25.4	20.3			0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						630666	633332	635998	MPR	Tune-up Limit	630666	633332	635998	MPR	Tune-up Limit
20	DFT-s	30	$\pi/2$ BPSK	1	1	25.0	25.1	25.2	0	25.4	20.7	20.6	20.5	0	20.7
				1	25	25.2	25.1	25.0	0	25.4	20.7	20.6	20.3	0	20.7
				1	49	25.1	25.1	25.0	0	25.4	20.7	20.6	20.3	0	20.7
				25	12	25.2	25.1	24.9	0	25.4	20.6	20.5	20.4	0	20.7
				1	1	25.1	25.0	25.1	0	25.4	20.6	20.7	20.5	0	20.7
			QPSK	1	25	25.1	25.2	25.3	0	25.4	20.4	20.5	20.5	0	20.7
				1	49	25.1	25.0	24.9	0	25.4	20.6	20.4	20.4	0	20.7
				25	12	25.1	25.1	24.9	0	25.4	20.6	20.5	20.4	0	20.7

NR Band 77 (Block C) Measured Results (ANT1)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
						656000	3840 MHz	MPR	Tune-up Limit	656000	3840 MHz	MPR	Tune-up Limit	
100	DFT-s	30	π/2 BPSK	1	1	24.8		0	25.4			0	20.7	
				1	136	25.1		0	25.4		0	20.7		
				1	271	25.1		0	25.4		0	20.7		
				135	67	25.2		0	25.4		0	20.7		
				1	1	24.7		0	25.4		0	20.7		
			QPSK	1	136	25.0		0	25.4		0	20.7		
				1	271	25.1		0	25.4		0	20.7		
				135	67	25.0		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
90	DFT-s	30	π/2 BPSK	1	1	25.0		0	25.4			0	20.7	
				1	122	25.1		0	25.4		0	20.7		
				1	243	25.0		0	25.4		0	20.7		
				121	60	24.9		0	25.4		0	20.7		
				1	1	24.8		0	25.4		0	20.7		
			QPSK	1	122	25.1		0	25.4		0	20.7		
				1	243	25.1		0	25.4		0	20.7		
				121	60	25.0		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
80	DFT-s	30	π/2 BPSK	1	1	25.0		0	25.4			0	20.7	
				1	108	25.0		0	25.4		0	20.7		
				1	215	24.7		0	25.4		0	20.7		
				108	54	24.7		0	25.4		0	20.7		
				1	1	24.6		0	25.4		0	20.7		
			QPSK	1	108	24.7		0	25.4		0	20.7		
				1	215	24.7		0	25.4		0	20.7		
				108	54	24.7		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
70	DFT-s	30	π/2 BPSK	1	1	25.0		0	25.4			0	20.7	
				1	91	25.1		0	25.4		0	20.7		
				1	187	24.9		0	25.4		0	20.7		
				94	47	24.9		0	25.4		0	20.7		
				1	1	24.8		0	25.4		0	20.7		
			QPSK	1	91	24.9		0	25.4		0	20.7		
				1	187	24.9		0	25.4		0	20.7		
				94	47	24.9		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
60	DFT-s	30	π/2 BPSK	1	1	25.0		0	25.4			0	20.7	
				1	80	24.8		0	25.4		0	20.7		
				1	160	24.7		0	25.4		0	20.7		
				81	40	25.0		0	25.4		0	20.7		
				1	1	25.1		0	25.4		0	20.7		
			QPSK	1	80	24.9		0	25.4		0	20.7		
				1	160	24.9		0	25.4		0	20.7		
				81	40	25.1		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
50	DFT-s	30	π/2 BPSK	1	1	24.7		0	25.4			0	20.7	
				1	66	24.7		0	25.4		0	20.7		
				1	131	24.9		0	25.4		0	20.7		
				64	32	24.8		0	25.4		0	20.7		
				1	1	24.9		0	25.4		0	20.7		
			QPSK	1	66	25.0		0	25.4		0	20.7		
				1	131	25.1		0	25.4		0	20.7		
				64	32	25.0		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
40	DFT-s	30	π/2 BPSK	1	1	24.9		0	25.4			0	20.7	
				1	52	25.0		0	25.4		0	20.7		
				1	104	25.1		0	25.4		0	20.7		
				50	25	25.0		0	25.4		0	20.7		
				1	1	24.9		0	25.4		0	20.7		
			QPSK	1	52	25.1		0	25.4		0	20.7		
				1	104	25.1		0	25.4		0	20.7		
				50	25	24.9		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
30	DFT-s	30	π/2 BPSK	1	1	24.9		0	25.4			0	20.7	
				1	38	25.1		0	25.4		0	20.7		
				1	76	25.1		0	25.4		0	20.7		
				36	18	24.9		0	25.4		0	20.7		
				1	1	24.9		0	25.4		0	20.7		
			QPSK	1	38	24.7		0	25.4		0	20.7		
				1	76	24.8		0	25.4		0	20.7		
				36	18	24.8		0	25.4		0	20.7		
													0	20.7
													0	20.7
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
20	DFT-s	30	π/2 BPSK	1	1	24.9		0	25.4			0	20.7	
				1	25	25.1		0	25.4		0	20.7		
				1	49	25.0		0	25.4		0	20.7		
				25	12	25.0		0	25.4		0	20.7		
				1	1	24.8		0	25.4		0	20.7		
			QPSK	1	25	25.0		0	25.4		0	20.7		
				1	49	24.9		0	25.4		0	20.7		
				25	12	25.1		0	25.4		0	20.7		
													0	20.7
													0	20.7

NR Band 77 (Block A) Measured Results (ANT4)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
						633332	3499.98 MHz	MPR	Tune-up Limit	633332	3499.98 MHz	MPR	Tune-up Limit
100	DFT-s	30	$\pi/2$ BPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	136	16.3		0	16.9	18.8		0	19.3
				1	271	16.1		0	16.9	18.8		0	19.3
				135	67	16.1		0	16.9	18.6		0	19.3
			QPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	136	16.1		0	16.9	18.7		0	19.3
				1	271	16.1		0	16.9	18.7		0	19.3
				135	67	16.1		0	16.9	18.6		0	19.3
90	DFT-s	30	$\pi/2$ BPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	122	16.1		0	16.9	18.7		0	19.3
				1	243	16.1		0	16.9	18.7		0	19.3
				121	60	16.1		0	16.9	18.7		0	19.3
			QPSK	1	1	16.2		0	16.9	18.7		0	19.3
				1	122	16.1		0	16.9	18.7		0	19.3
				1	243	16.1		0	16.9	18.7		0	19.3
				121	60	16.1		0	16.9	18.7		0	19.3
80	DFT-s	30	$\pi/2$ BPSK	1	1	16.2		0	16.9	18.7		0	19.3
				1	108	16.1		0	16.9	18.7		0	19.3
				1	215	16.1		0	16.9	18.7		0	19.3
				108	54	16.0		0	16.9	18.7		0	19.3
			QPSK	1	1	16.2		0	16.9	18.7		0	19.3
				1	108	16.0		0	16.9	18.7		0	19.3
				1	215	16.1		0	16.9	18.7		0	19.3
				108	54	16.1		0	16.9	18.7		0	19.3
70	DFT-s	30	$\pi/2$ BPSK	1	1	16.2		0	16.9	18.7		0	19.3
				1	91	16.1		0	16.9	18.7		0	19.3
				1	187	16.0		0	16.9	18.7		0	19.3
				94	47	16.1		0	16.9	18.7		0	19.3
			QPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	91	16.1		0	16.9	18.7		0	19.3
				1	187	16.0		0	16.9	18.7		0	19.3
				94	47	16.1		0	16.9	18.7		0	19.3
60	DFT-s	30	$\pi/2$ BPSK	1	1	16.4		0	16.9	18.7		0	19.3
				1	80	16.4		0	16.9	18.7		0	19.3
				1	160	16.1		0	16.9	18.7		0	19.3
				81	40	16.4		0	16.9	18.7		0	19.3
			QPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	80	16.4		0	16.9	18.7		0	19.3
				1	160	16.3		0	16.9	18.7		0	19.3
				81	40	16.4		0	16.9	18.7		0	19.3
50	DFT-s	30	$\pi/2$ BPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	66	16.4		0	16.9	18.7		0	19.3
				1	131	16.3		0	16.9	18.7		0	19.3
				64	32	16.3		0	16.9	18.7		0	19.3
			QPSK	1	1	16.2		0	16.9	18.7		0	19.3
				1	66	16.2		0	16.9	18.8		0	19.3
				1	131	16.2		0	16.9	18.7		0	19.3
				64	32	16.3		0	16.9	18.7		0	19.3
40	DFT-s	30	$\pi/2$ BPSK	1	1	16.3		0	16.9	18.8		0	19.3
				1	52	16.1		0	16.9	18.7		0	19.3
				1	104	16.4		0	16.9	18.7		0	19.3
				50	25	16.1		0	16.9	18.7		0	19.3
			QPSK	1	1	16.3		0	16.9	18.7		0	19.3
				1	52	16.1		0	16.9	18.7		0	19.3
				1	104	16.2		0	16.9	18.7		0	19.3
				50	25	16.2		0	16.9	18.7		0	19.3

NR Band 77 (Block A) Measured Results (ANT4) (continued)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						631000	633332	635666	MPR	Tune-up Limit	631000	633332	635666	MPR	Tune-up Limit
						3465 MHz	3499.98 MHz	3534.99 MHz			3465 MHz	3499.98 MHz	3534.99 MHz		
30	DFT-s	30	$\pi/2$ BPSK	1	1	16.1	16.4	16.3	0	16.9	18.7	18.7	18.7	0	19.3
				1	38	16.1	16.2	16.1	0	16.9	18.7	18.7	18.8	0	19.3
				1	76	16.3	16.1	16.2	0	16.9	18.7	18.7	18.7	0	19.3
				36	18	16.2	16.1	16.3	0	16.9	18.7	18.7	18.7	0	19.3
			QPSK	1	1	16.5	16.2	16.2	0	16.9	18.7	18.8	18.7	0	19.3
				1	38	16.3	16.1	16.4	0	16.9	18.7	18.7	18.7	0	19.3
				1	76	16.1	16.2	16.3	0	16.9	18.7	18.7	18.7	0	19.3
				36	18	16.3	16.2	16.2	0	16.9	18.7	18.7	18.7	0	19.3
BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						630666	633332	635998	MPR	Tune-up Limit	630666	633332	635998	MPR	Tune-up Limit
						3459.99 MHz	3499.98 MHz	3539.97 MHz			3459.99 MHz	3499.98 MHz	3539.97 MHz		
20	DFT-s	30	$\pi/2$ BPSK	1	1	16.4	16.3	16.2	0	16.9	18.7	18.7	18.7	0	19.3
				1	25	16.3	16.1	16.1	0	16.9	18.7	18.7	18.7	0	19.3
				1	49	16.2	16.1	16.3	0	16.9	18.8	18.8	18.7	0	19.3
				25	12	16.1	16.2	16.1	0	16.9	18.7	18.7	18.7	0	19.3
			QPSK	1	1	16.4	16.1	16.2	0	16.9	18.7	18.7	18.7	0	19.3
				1	25	16.3	16.1	16.2	0	16.9	18.7	18.7	18.7	0	19.3
				1	49	16.1	16.0	16.2	0	16.9	18.7	18.7	18.7	0	19.3
				25	12	16.2	16.1	16.1	0	16.9	18.7	18.7	18.7	0	19.3

NR Band 77 (Block C) Measured Results (ANT4)

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
						656000	3840 MHz	MPR	Tune-up Limit	656000	3840 MHz	MPR	Tune-up Limit		
100	DFT-s	30	π/2 BPSK	1	1	16.4		0	16.9			0	19.3		
				1	136	16.4		0	16.9			0	19.3		
				1	271	16.3		0	16.9			0	19.3		
				135	67	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	136	16.3		0	16.9			0	19.3		
				1	271	16.3		0	16.9			0	19.3		
				135	67	16.3		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				656000 3840 MHz MPR Tune-up Limit								656000 3840 MHz MPR Tune-up Limit			
90	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	122	16.3		0	16.9			0	19.3		
				1	243	16.3		0	16.9			0	19.3		
				121	60	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	122	16.3		0	16.9			0	19.3		
				1	243	16.3		0	16.9			0	19.3		
				121	60	16.3		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				656000 3840 MHz MPR Tune-up Limit								656000 3840 MHz MPR Tune-up Limit			
80	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	108	16.4		0	16.9			0	19.3		
				1	215	16.3		0	16.9			0	19.3		
				108	54	16.3		0	16.9			0	19.3		
				1	1	16.4		0	16.9			0	19.3		
			QPSK	1	108	16.4		0	16.9			0	19.3		
				1	215	16.3		0	16.9			0	19.3		
				108	54	16.4		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				656000 3840 MHz MPR Tune-up Limit								656000 3840 MHz MPR Tune-up Limit			
70	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	91	16.3		0	16.9			0	19.3		
				1	187	16.3		0	16.9			0	19.3		
				94	47	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	91	16.3		0	16.9			0	19.3		
				1	187	16.3		0	16.9			0	19.3		
				94	47	16.4		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				656000 3840 MHz MPR Tune-up Limit								656000 3840 MHz MPR Tune-up Limit			
60	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	80	16.3		0	16.9			0	19.3		
				1	160	16.4		0	16.9			0	19.3		
				81	40	16.4		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	80	16.3		0	16.9			0	19.3		
				1	160	16.3		0	16.9			0	19.3		
				81	40	16.3		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				656000 3840 MHz MPR Tune-up Limit								656000 3840 MHz MPR Tune-up Limit			
50	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	66	16.3		0	16.9			0	19.3		
				1	131	16.4		0	16.9			0	19.3		
				64	32	16.4		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	66	16.3		0	16.9			0	19.3		
				1	131	16.3		0	16.9			0	19.3		
				64	32	16.4		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				649332 3724.96 MHz 652166 3782.40 MHz 656000 3840 MHz 659932 3897.48 MHz 663666 3954.89 MHz MPR Tune-up Limit								649332 3724.96 MHz 652166 3782.49 MHz 656000 3840 MHz 659932 3897.48 MHz 663666 3954.89 MHz MPR Tune-up Limit			
40	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	52	16.4		0	16.9			0	19.3		
				1	104	16.3		0	16.9			0	19.3		
				50	25	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	52	16.3		0	16.9			0	19.3		
				1	104	16.3		0	16.9			0	19.3		
				50	25	16.3		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				647998 3719.97 MHz 651998 3779.97 MHz 656000 3840 MHz 659998 3899.97 MHz 663998 3959.97 MHz MPR Tune-up Limit								647998 3719.97 MHz 651998 3779.97 MHz 656000 3840 MHz 659998 3899.97 MHz 663998 3959.97 MHz MPR Tune-up Limit			
30	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	38	16.3		0	16.9			0	19.3		
				1	76	16.4		0	16.9			0	19.3		
				36	18	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	38	16.4		0	16.9			0	19.3		
				1	76	16.4		0	16.9			0	19.3		
				36	18	16.4		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				647332 3709.98 MHz 651666 3774.99 MHz 656000 3840 MHz 660332 3904.98 MHz 664666 3969.99 MHz MPR Tune-up Limit								647332 3709.98 MHz 651666 3774.99 MHz 656000 3840 MHz 660332 3904.98 MHz 664666 3969.99 MHz MPR Tune-up Limit			
20	DFT-s	30	π/2 BPSK	1	1	16.3		0	16.9			0	19.3		
				1	25	16.3		0	16.9			0	19.3		
				1	49	16.3		0	16.9			0	19.3		
				25	12	16.3		0	16.9			0	19.3		
				1	1	16.3		0	16.9			0	19.3		
			QPSK	1	25	16.4		0	16.9			0	19.3		
				1	49	16.3		0	16.9			0	19.3		
				25	12	16.3		0	16.9			0	19.3		
				Power Mode A (dBm)								Power Mode B (dBm)			
				647332 3709.98 MHz 651666 3774.99 MHz 656000 3840 MHz 660332 3904.98 MHz 664666 3969.99 MHz MPR Tune-up Limit								647332 3709.98 MHz 651666 3774.99 MHz 656000 3840 MHz 660332 3904.98 MHz 664666 3969.99 MHz MPR Tune-up Limit			

EN-DC Carrier Aggregation

According to November 13, 2019 TCB workshop, EN-DC SAR Test Guidance is as follows:

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

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

The maximum EN_DC transmit power is reduced by 3dB from the standalone values for both LTE anchor and NR therefore SAR will be reduced accordingly.

The reported 1g SAR for any standalone LTE or NR configuration does not exceed 1.2 W/kg. The worst case EN-DC LTE or NR SAR per band will therefore be <0.6W/kg. As the SAR for each individual band is <0.6 W/kg and the algebraic summation cannot exceed 1.2 W/kg no further measurements are needed.

The combined SAR contribution cannot exceed the highest standalone SAR:

$$(SAR_{LTE}/2 + SAR_{5GNR}/2 \leq \text{Max} (SAR_{LTE}, SAR_{5GNR}))$$

therefore simultaneous transmission analysis of EN-DC and WLAN/BT transmitters can be done using either of the standalone LTE or NR SAR values alone.

9.7. Wi-Fi 2.4GHz (DTS Band)

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

Inspection of the SAR plots has shown that there is no overlap of hotspots and the center of antennas are at least 114 mm apart. Using the guidance in KDB 248227 section 6.1, no evaluation of MIMO is required and SAR compliance for simultaneous transmission is determined separately for each individual antenna.

Tune-up Output Power for Wi-Fi 2.4 GHz

The table below is the Maximum power the device is capable of transmitting (Mode C). SAR testing is not applicable for Mode C operation. In the Wi-Fi 2.4 GHz (Pcell_OFF and Pcell_ON) table, the highlighted worst case Low/Mid/High channels are selected for Mode A and Mode B.

Channel	Frequency (MHz)	Tune-up Output Power (dBm)																							
		ANT2 / ANT3																							
		SISO Mode												MIMO Mode											
		b (SISO)	g (SISO) Low Rate	g (SISO) Mid Rate	g (SISO) High Rate	11n/11ac HT20 (SISO) Low Rate	11n/11ac HT20 (SISO) Mid Rate	11n/11ac HT20 (SISO) High Rate	11ax HE20 (SISO) Low Rate	11ax HE20 (SISO) Mid Rate	11ax HE20 (SISO) High Rate	FCC 11ax HE20 RU242 (SISO)	FCC 11ax HE20 RU106 (SISO)	FCC 11ax HE20 RU52 (SISO)	FCC 11ax HE20 RU26 (SISO)	11n/11ac HT20 (2Tx, nonTxBF) Low Rate	11n/11ac HT20 (2Tx, nonTxBF) Mid Rate	11n/11ac HT20 (2Tx, nonTxBF) High Rate	11ax HE20 (2Tx, nonTxBF) Low Rate	11ax HE20 (2Tx, nonTxBF) Mid Rate	11ax HE20 (2Tx, nonTxBF) High Rate	FCC 11ax HE20 RU242 (2Tx, nonTxBF)	FCC 11ax HE20 RU106 (2Tx, nonTxBF)	FCC 11ax HE20 RU52 (2Tx, nonTxBF)	FCC 11ax HE20 RU26 (2Tx, nonTxBF)
1	2412	19.0	17.5	17.0	16.5	17.5	17.0	16.5	16.0	15.5	15.0	15.0	15.0	15.0	12.0	16.5	16.0	15.5	15.0	14.5	14.0	14.0	14.0	14.0	12.0
2	2417	20.0	20.0	19.5	19.0	20.0	19.5	19.0	18.5	18.0	17.5	17.5	17.5	15.0	12.0	19.0	18.5	18.0	17.5	17.0	16.5	16.5	16.5	15.0	12.0
3	2422	20.0	21.5	21.0	20.5	21.5	21.0	20.5	20.0	19.5	19.0	19.0	18.0	15.0	12.0	20.5	20.0	19.5	18.0	17.5	17.0	17.0	17.0	15.0	12.0
4	2427	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0	21.5	21.0	20.5	20.0	19.5	19.0	19.0	18.0	15.0	12.0
5	2432	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0
6	2437	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0
7	2442	20.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0
8	2447	19.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18.0	15.0	12.0	21.5	21.0	20.5	20.0	19.5	19.0	19.0	18.0	15.0	12.0
9	2452	19.5	21.5	21.5	21.0	21.5	21.0	20.5	20.0	19.5	19.0	19.0	18.0	15.0	12.0	20.5	20.0	19.5	18.0	17.5	17.0	17.0	17.0	15.0	12.0
10	2457	19.0	20.5	20.0	19.5	20.0	19.5	19.0	18.5	18.0	17.5	17.5	17.5	15.0	12.0	19.0	18.5	18.0	17.5	17.0	16.5	16.5	16.5	15.0	12.0
11	2462	19.0	17.5	17.0	16.5	17.5	17.0	16.5	16.0	15.5	15.0	15.0	15.0	15.0	12.0	16.5	16.0	15.5	15.0	14.5	14.0	14.0	14.0	14.0	12.0
12	2467	17.0	16.5	16.0	15.5	15.0	14.5	14.0	13.5	13.0	12.5	12.5	12.5	12.5	12.0	14.0	13.5	13.0	12.5	12.0	11.5	11.5	11.5	11.5	11.5
13	2472	17.0	13.5	13.3	13.0	14.0	13.5	13.0	9.0	8.5	8.0	8.0	4.0	1.0	0.0	12.5	12.0	11.5	8.8	8.3	7.8	7.8	3.0	0.0	0.0

Wi-Fi 2.4 GHz (Pcell_OFF and Pcell_ON)

The table below are the Tune-Up Limits used for SAR Testing (Mode A and Mode B). For 802.11g/n/ac/ax transmission modes, the power is equal to the table below or less than 802.11b mode. Therefore, 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 (MHz)	Tune-up Output Power (dBm)				Tune-up Output Power (dBm)			
			Pcell OFF				Pcell ON			
			ANT2		ANT3		ANT2		ANT3	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11b DSSS (SISO)	1	2412	17.25	18.50	19.00	19.00	12.00	15.25	19.00	14.00
	2	2417	17.25	18.50	20.00	19.50	12.00	15.25	19.75	14.00
	3	2422	17.25	18.50	20.00	19.50	12.00	15.25	19.75	14.00
	4	2427	17.25	18.50	21.50	19.50	12.00	15.25	19.75	14.00
	5	2432	17.25	18.50	21.50	19.50	12.00	15.25	19.75	14.00
	6	2437	17.25	18.50	21.50	19.50	12.00	15.25	19.75	14.00
	7	2442	17.25	18.50	20.00	19.50	12.00	15.25	19.75	14.00
	8	2447	17.25	18.50	19.50	19.50	12.00	15.25	19.50	14.00
	9	2452	17.25	18.50	19.50	19.50	12.00	15.25	19.50	14.00
	10	2457	17.25	18.50	19.00	19.00	12.00	15.25	19.00	14.00
	11	2462	17.25	18.50	19.00	19.00	12.00	15.25	19.00	14.00
	12	2467	17.00	17.00	17.00	17.00	12.00	15.25	17.00	14.00
	13	2472	17.00	17.00	17.00	17.00	12.00	15.25	17.00	14.00

Wi-Fi 2.4GHz Measured Results

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

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

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

Power Mode	Antenna	Mode	Power Mode A					Power Mode B				
			Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell OFF	ANT2	DSSS 802.11b	1	2412	15.97	17.25	Yes	1	2412	16.85	18.50	Yes
			6	2437	16.03	17.25		6	2437	17.01	18.50	
			11	2462	15.61	17.25		11	2462	16.80	18.50	
	ANT3	DSSS 802.11b	2	2417	18.42	20.00	Yes	2	2417	17.94	19.50	Yes
			6	2437	20.59	21.50		6	2437	18.48	19.50	
			9	2452	18.10	19.50		9	2452	18.10	19.50	
Power Mode	Antenna	Mode	Power Mode A					Power Mode B				
			Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell ON	ANT2	DSSS 802.11b	1	2412	10.26	12.00	Yes	1	2412	14.80	15.25	Yes
			6	2437	10.87	12.00		6	2437	14.55	15.25	
			11	2462	10.14	12.00		11	2462	14.14	15.25	
	ANT3	DSSS 802.11b	2	2417	17.98	19.75	Yes	1	2412	12.52	14.00	Yes
			6	2437	18.21	19.75		6	2437	12.65	14.00	
			9	2452	18.10	19.50		11	2462	12.11	14.00	

Note(s):

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

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

Inspection of the SAR plots has shown that there is no overlap of hotspots and the center of antennas are at least 114 mm apart. Using the guidance in KDB 248227 section 6.1, no evaluation of MIMO is required and SAR compliance for simultaneous transmission is determined separately for each individual antenna.

The table below is the Maximum power the device is capable of transmitting (Mode C). SAR testing is not applicable for Mode C operation. In the Wi-Fi 5 GHz (Pcell_OFF and Pcell_ON) table, the highlighted worst case Low/Mid/High channels are selected for Mode A and Mode B.

[illegible]

Wi-Fi 5 GHz (P_{cell} OFF and P_{cell} ON)

The table below lists the Tune-Up Limits used for SAR Testing (Mode A and Mode B). The power setting used will be the lower of the powers listed below or the original target power for any given channel/modulation. Therefore, 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	Tune-up Output Power (dBm) Pcell OFF				Tune-up Output Power (dBm) Pcell ON			
				ANT3		ANT6		ANT3		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11ax HE20 Low Rate 20 MHz	36	5180	17.00	14.75	15.50	17.00	15.25	8.00	7.75	13.25
		40	5200	20.00	14.75	15.50	17.50	15.25	8.00	7.75	13.25
		44	5220	20.00	14.75	15.50	17.50	15.25	8.00	7.75	13.25
		48	5240	20.00	14.75	15.50	17.50	15.25	8.00	7.75	13.25
	802.11n/ac 40 MHz	38	5190	16.50	14.75	15.50	16.50	15.25	8.00	7.75	13.25
		46	5230	20.00	14.75	15.50	17.50	15.25	8.00	7.75	13.25
U-NII-2A 5.3 GHz (SISO)	802.11ax HE20 Low Rate 20 MHz	52	5260	19.80	14.75	14.50	16.25	15.25	7.75	6.75	12.00
		56	5280	19.80	14.75	14.50	16.25	15.25	7.75	6.75	12.00
		60	5300	19.80	14.75	14.50	16.25	15.25	7.75	6.75	12.00
		64	5320	15.00	14.75	14.50	15.00	15.00	7.75	6.75	12.00
	802.11n/ac 40 MHz	54	5270	20.00	14.75	14.50	16.25	15.25	7.75	6.75	12.00
		62	5310	16.50	14.75	14.50	16.25	15.25	7.75	6.75	12.00
U-NII-2C 5.5 GHz (SISO)	802.11ax HE20 Low Rate 20 MHz	100	5500	15.00	15.00	15.00	15.00	15.00	9.50	7.75	11.50
		104	5520	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		108	5540	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		112	5560	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		116	5580	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		120	5600	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		124	5620	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		128	5640	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		132	5660	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		136	5680	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
	802.11n/ac 40 MHz	140	5700	16.50	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		144	5720	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		102	5510	16.50	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		110	5550	20.50	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		118	5590	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
U-NII-3 5.8 GHz (SISO)	802.11a 20 MHz	126	5630	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		134	5670	19.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		142	5710	20.50	16.25	15.50	15.75	15.50	9.50	7.75	11.50
		106	5530	16.00	16.00	15.50	15.75	15.50	9.50	7.75	11.50
		122	5610	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50
	802.11ac 80 MHz	138	5690	20.00	16.25	15.50	15.75	15.50	9.50	7.75	11.50

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	Power Mode A							Power Mode B						
		Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell OFF	ANT3	U-NII-2A	802.11n HT40	54	5270	18.68	20.00	Yes	U-NII-2A	802.11ac VHT80	58	5290	13.17	14.75	Yes
				62	5310	14.75	16.50								
		U-NII-2C	802.11ac VHT80	106	5530	14.89	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.89	16.00	Yes
				122	5610	18.84	20.00				122	5610	15.44	16.25	
				138	5690	18.70	20.00				138	5690	15.40	16.25	
		U-NII-3	802.11ac VHT80	155	5775	18.29	20.00	Yes	U-NII-3	802.11ac VHT80	155	5775	14.06	15.75	Yes
	ANT6	U-NII-1	802.11ac VHT80	42	5210	14.22	15.50	Yes	U-NII-1	802.11n HT40	38	5190	15.16	16.50	Yes
								46			5230	16.32	17.50		
		U-NII-2C	802.11ac VHT80	106	5530	13.71	15.50	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.09	15.75	Yes
				122	5610	14.01	15.50				122	5610	14.74	15.75	
				138	5690	13.98	15.50				138	5690	14.26	15.75	
		U-NII-3	802.11ac VHT80	155	5775	15.48	17.25	Yes	U-NII-3	802.11ac VHT80	155	5775	14.21	15.75	Yes
Power Mode	Antenna	Power Mode A							Power Mode B						
		Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell ON	ANT3	U-NII-2A	802.11ac VHT80	58	5290	13.38	15.25	Yes	U-NII-1	802.11ac VHT80	42	5210	6.72	8.00	Yes
				106	5530	13.53	15.50	Yes			U-NII-2C	802.11ac VHT80	106	5530	7.95
		U-NII-2C	802.11ac VHT80	122	5610	14.04	15.50		Yes	U-NII-2C			802.11ac VHT80	122	5610
				138	5690	13.93	15.50	138			5690	8.08		9.50	
		U-NII-3	802.11ac VHT80	155	5775	14.03	15.25	Yes	U-NII-3	802.11ac VHT80	155	5775	7.56	9.00	Yes
	ANT6	U-NII-1	802.11ac VHT80	42	5210	6.48	7.75	Yes	U-NII-1	802.11ac VHT80	42	5210	12.10	13.25	Yes
				106	5530	5.93	7.75	Yes			U-NII-2C	802.11ac VHT80	106	5530	9.93
		U-NII-2C	802.11ac VHT80	122	5610	6.21	7.75		Yes	U-NII-2C			802.11ac VHT80	122	5610
				138	5690	6.20	7.75	138			5690	10.02		11.50	
		U-NII-3	802.11ac VHT80	155	5775	7.88	9.50	Yes	U-NII-3	802.11ac VHT80	155	5775	9.84	11.50	Yes

9.9. Bluetooth

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

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

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

Tune-up Output Power for Bluetooth (P_{low} , P_{high} , and $P_{\text{standalone}}$)

For Bluetooth, there are three use cases:

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

Mode	Tune-up Output Power (dBm)											
	Bluetooth P_{low}				Bluetooth P_{high}				Bluetooth $P_{\text{standalone}}$			
	ANT2		ANT3		ANT2		ANT3		ANT2		ANT3	
	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	7.50	7.00	11.50	8.00	10.00	11.00	18.50	12.00	16.50	17.00	20.00	19.00
EDR	7.50	7.00	11.50	8.00	10.00	11.00	14.00	12.00	14.00	14.00	14.00	14.00
LE1M	7.50	7.00	11.50	8.00	10.00	11.00	18.50	12.00	16.50	17.00	20.00	19.00
LE2M	7.50	7.00	11.50	8.00	10.00	11.00	18.50	12.00	16.50	17.00	20.00	19.00
HDR4	7.50	7.00	11.50	8.00	10.00	11.00	12.50	12.00	12.50	12.50	12.50	12.50
HDR8	7.50	7.00	11.50	8.00	10.00	11.00	13.00	12.00	13.00	13.00	13.00	13.00

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

Bluetooth Measured Results

SAR measurement is not required for the 8PSK, BLE, and HDR. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Power Mode	Antenna	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
					Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Bluetooth P_{low}	ANT2	GFSK	0	2402	5.62	7.50	Yes	5.22	7.00	Yes
			39	2441	6.49	7.50		5.78	7.00	
			78	2480	5.74	7.50		5.37	7.00	
	ANT3	GFSK	0	2402	10.05	11.50	Yes	6.39	8.00	Yes
			39	2441	10.37	11.50		6.81	8.00	
			78	2480	10.19	11.50		6.42	8.00	
Bluetooth P_{high}	ANT2	GFSK	0	2402	8.35	10.00	Yes	9.22	11.00	Yes
			39	2441	8.73	10.00		9.61	11.00	
			78	2480	8.71	10.00		9.39	11.00	
	ANT3	GFSK	0	2402	17.16	18.50	Yes	10.09	12.00	Yes
			39	2441	17.34	18.50		10.92	12.00	
			78	2480	17.26	18.50		10.44	12.00	
Bluetooth $P_{\text{standalone}}$	ANT2	GFSK	0	2402	15.17	16.50	Yes	15.39	17.00	Yes
			39	2441	15.35	16.50		15.61	17.00	
			78	2480	15.27	16.50		15.57	17.00	
	ANT3	GFSK	0	2402	18.23	20.00	Yes	17.01	19.00	Yes
			39	2441	18.39	20.00		17.07	19.00	
			78	2480	18.29	20.00		17.05	19.00	

Duty Factor Measured Results

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

Note(s):

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

Duty Cycle plots

GFSK



10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

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

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

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

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
- For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

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

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

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

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

10.1. GSM850

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	32.5	31.6	0.598	0.744	0.459	0.571	1
					Left Tilt	190	836.6	32.5	31.6	0.329	0.409	0.256	0.319	
					Right Touch	190	836.6	32.5	31.6	0.516	0.642	0.395	0.492	
					Right Tilt	190	836.6	32.5	31.6	0.315	0.392	0.247	0.307	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	30.4	29.5	0.502	0.612	0.306	0.373	2
					Front	190	836.6	30.4	29.5	0.406	0.495	0.266	0.324	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	30.4	29.5	0.401	0.489	0.263	0.321	
					Edge 3	190	836.6	30.4	29.5	0.210	0.256	0.099	0.121	
					Edge 4	190	836.6	30.4	29.5	0.585	0.713	0.384	0.468	3
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	30.8	29.7	0.195	0.249	0.107	0.137	
					Left Tilt	190	836.6	30.8	29.7	0.175	0.223	0.091	0.116	
					Right Touch	190	836.6	30.8	29.7	0.527	0.673	0.354	0.452	4
					Right Tilt	190	836.6	30.8	29.7	0.408	0.521	0.236	0.301	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	30.8	29.7	0.233	0.297	0.158	0.202	
					Front	190	836.6	30.8	29.7	0.245	0.313	0.159	0.203	5
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	30.8	29.7	0.092	0.117	0.043	0.055	
					Edge 2	190	836.6	30.8	29.7	0.402	0.513	0.260	0.332	6
					Edge 4	190	836.6	30.8	29.7	0.252	0.322	0.162	0.207	

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	29.1	28.6	0.276	0.310	0.171	0.192	7
					Left Tilt	661	1880.0	29.1	28.6	0.152	0.171	0.095	0.107	
					Right Touch	661	1880.0	29.1	28.6	0.349	0.392	0.225	0.252	
					Right Tilt	661	1880.0	29.1	28.6	0.191	0.214	0.120	0.135	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	24.6	23.7	0.603	0.747	0.283	0.351	8
						661	1880.0	24.6	23.8	0.775	0.925	0.353	0.421	
						810	1909.8	24.6	23.8	0.674	0.810	0.306	0.368	
					Front	661	1880.0	24.6	23.8	0.602	0.719	0.297	0.355	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	24.6	23.8	0.332	0.396	0.186	0.222	
					Edge 3	512	1850.2	24.6	23.7	0.633	0.784	0.299	0.370	
						661	1880.0	24.6	23.8	0.751	0.897	0.360	0.430	
						810	1909.8	24.6	23.8	0.508	0.611	0.236	0.284	
					Edge 4	661	1880.0	24.6	23.8	0.046	0.055	0.025	0.030	
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	24.2	23.3	0.273	0.338	0.152	0.188	9
					Left Tilt	661	1880.0	24.2	23.3	0.249	0.308	0.136	0.168	
					Right Touch	512	1850.2	24.2	23.4	0.789	0.951	0.432	0.521	
						661	1880.0	24.2	23.3	0.770	0.954	0.413	0.512	
						810	1909.8	24.2	23.2	0.828	1.035	0.436	0.545	
					Right Tilt	512	1850.2	24.2	23.4	0.718	0.865	0.339	0.409	
						661	1880.0	24.2	23.3	0.689	0.854	0.320	0.396	
						810	1909.8	24.2	23.2	0.786	0.983	0.351	0.439	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	25.1	24.2	0.499	0.614	0.243	0.299	10
					Front	512	1850.2	25.1	24.3	0.720	0.858	0.365	0.435	
						661	1880.0	25.1	24.2	0.662	0.814	0.333	0.410	
						810	1909.8	25.1	24.2	0.477	0.587	0.238	0.293	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	25.1	24.2	0.407	0.501	0.172	0.212	
					Edge 2	661	1880.0	25.1	24.2	0.035	0.043	0.018	0.022	
					Edge 4	661	1880.0	25.1	24.2	0.609	0.749	0.317	0.390	

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	23.1	22.6	0.284	0.320	0.180	0.203	
					Left Tilt	9400	1880.0	23.1	22.6	0.144	0.162	0.087	0.098	
					Right Touch	9400	1880.0	23.1	22.6	0.429	0.484	0.270	0.304	11
					Right Tilt	9400	1880.0	23.1	22.6	0.179	0.202	0.102	0.115	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	18.6	18.2	0.775	0.846	0.351	0.383	
						9400	1880.0	18.6	18.1	0.847	0.953	0.379	0.426	
						9538	1907.6	18.6	18.0	0.858	0.990	0.381	0.439	12
					Front	9400	1880.0	18.6	18.1	0.571	0.642	0.272	0.306	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9400	1880.0	18.6	18.1	0.299	0.336	0.163	0.183	
					Edge 3	9400	1880.0	18.6	18.1	0.702	0.789	0.326	0.367	
					Edge 4	9400	1880.0	18.6	18.1	0.092	0.103	0.050	0.056	
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	18.2	17.3	0.393	0.489	0.217	0.270	
					Left Tilt	9400	1880.0	18.2	17.3	0.378	0.470	0.196	0.244	
					Right Touch	9262	1852.4	18.2	17.3	0.812	0.992	0.421	0.514	
						9400	1880.0	18.2	17.3	0.816	1.016	0.422	0.525	
						9538	1907.6	18.2	17.3	0.806	0.996	0.418	0.517	
					Right Tilt	9262	1852.4	18.2	17.3	0.796	0.973	0.360	0.440	
						9400	1880.0	18.2	17.3	0.819	1.019	0.369	0.459	
						9538	1907.6	18.2	17.3	0.849	1.049	0.376	0.465	13
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	19.1	18.8	0.759	0.817	0.372	0.400	
						9400	1880.0	19.1	18.8	0.758	0.810	0.370	0.396	14
						9538	1907.6	19.1	18.8	0.774	0.824	0.375	0.399	
					Front	9400	1880.0	19.1	18.8	0.596	0.637	0.295	0.315	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	19.1	18.8	0.568	0.607	0.237	0.253	
					Edge 2	9400	1880.0	19.1	18.8	0.048	0.051	0.025	0.027	
					Edge 4	9400	1880.0	19.1	18.8	0.483	0.516	0.251	0.268	

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	1312	1712.4	24.3	24.3	0.959	0.963	0.628	0.631	15
						1413	1732.6	24.3	24.3	0.992	1.001	0.647	0.653	
						1513	1752.6	24.3	24.3	1.020	1.022	0.661	0.663	
					Left Tilt	1413	1732.6	24.3	24.3	0.240	0.242	0.156	0.157	
					Right Touch	1413	1732.6	24.3	24.3	0.569	0.574	0.391	0.395	
					Right Tilt	1413	1732.6	24.3	24.3	0.290	0.293	0.177	0.179	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.5	21.1	0.699	0.775	0.420	0.466	
						1413	1732.6	21.5	20.9	0.743	0.853	0.435	0.499	
						1513	1752.6	21.5	21.0	0.862	0.974	0.484	0.547	
					Front	1312	1712.4	21.5	21.1	0.654	0.725	0.374	0.415	16
						1413	1732.6	21.5	20.9	0.755	0.867	0.408	0.468	
						1513	1752.6	21.5	21.0	0.881	0.995	0.461	0.521	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	21.5	20.9	0.189	0.217	0.103	0.118	
					Edge 3	1413	1732.6	21.5	20.9	0.403	0.463	0.192	0.220	
					Edge 4	1413	1732.6	21.5	20.9	0.526	0.604	0.286	0.328	
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	18.2	17.6	0.340	0.394	0.207	0.240	17
					Left Tilt	1413	1732.6	18.2	17.6	0.296	0.343	0.164	0.190	
					Right Touch	1312	1712.4	18.2	17.5	0.844	1.003	0.447	0.531	
						1413	1732.6	18.2	17.6	0.844	0.978	0.461	0.534	
						1513	1752.6	18.2	17.5	0.873	1.019	0.466	0.544	
					Right Tilt	1312	1712.4	18.2	17.5	0.717	0.852	0.356	0.423	
						1413	1732.6	18.2	17.6	0.723	0.838	0.356	0.413	
						1513	1752.6	18.2	17.5	0.756	0.882	0.373	0.435	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	20.0	19.8	0.798	0.836	0.406	0.425	18
						1413	1732.6	20.0	19.9	0.810	0.831	0.412	0.423	
						1513	1752.6	20.0	19.9	0.867	0.893	0.441	0.454	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Front	1413	1732.6	20.0	19.9	0.683	0.701	0.341	0.350	
					Edge 1	1413	1732.6	20.0	19.9	0.643	0.659	0.292	0.299	
					Edge 2	1413	1732.6	20.0	19.9	0.021	0.022	0.011	0.011	
					Edge 4	1413	1732.6	20.0	19.9	0.483	0.495	0.254	0.261	

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	25.7	24.9	0.615	0.734	0.469	0.560	19
					Left Tilt	4183	836.6	25.7	24.9	0.334	0.399	0.258	0.308	
					Right Touch	4183	836.6	25.7	24.9	0.533	0.636	0.405	0.484	
					Right Tilt	4183	836.6	25.7	24.9	0.322	0.384	0.248	0.296	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.4	23.6	0.661	0.798	0.403	0.487	20
					Front	4183	836.6	24.4	23.6	0.488	0.589	0.328	0.396	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	24.4	23.6	0.533	0.644	0.345	0.417	
					Edge 3	4183	836.6	24.4	23.6	0.229	0.277	0.109	0.132	
					Edge 4	4132	826.4	24.4	23.6	0.702	0.842	0.458	0.549	
						4183	836.6	24.4	23.6	0.753	0.909	0.490	0.592	21
						4233	846.6	24.4	23.6	0.704	0.846	0.456	0.548	
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	24.2	23.3	0.212	0.260	0.118	0.145	22
					Left Tilt	4183	836.6	24.2	23.3	0.214	0.263	0.113	0.139	
					Right Touch	4183	836.6	24.2	23.3	0.294	0.361	0.148	0.182	
					Right Tilt	4183	836.6	24.2	23.3	0.238	0.292	0.116	0.142	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.2	23.3	0.224	0.275	0.113	0.139	23
					Front	4183	836.6	24.2	23.3	0.194	0.238	0.100	0.123	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.2	23.3	0.137	0.168	0.059	0.072	
					Edge 2	4183	836.6	24.2	23.3	0.072	0.088	0.047	0.058	
					Edge 4	4183	836.6	24.2	23.3	0.025	0.031	0.015	0.018	

10.6. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	25.7	24.7	0.601	0.761	0.454	0.575	24
								25	12	24.7	23.8	0.495	0.612	0.375	0.464	
					Left Tilt	20525	836.5	1	25	25.7	24.7	0.292	0.370	0.226	0.286	
								25	12	24.7	23.8	0.239	0.296	0.186	0.230	
					Right Touch	20525	836.5	1	25	25.7	24.7	0.504	0.638	0.384	0.486	
								25	12	24.7	23.8	0.417	0.516	0.317	0.392	
					Right Tilt	20525	836.5	1	25	25.7	24.7	0.273	0.346	0.213	0.270	
								25	12	24.7	23.8	0.224	0.277	0.175	0.216	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	24.4	23.7	0.384	0.451	0.238	0.280	
								25	12	24.4	23.8	0.396	0.457	0.245	0.283	
					Front	20525	836.5	1	25	24.4	23.7	0.564	0.663	0.337	0.396	
								25	12	24.4	23.8	0.582	0.672	0.347	0.401	25
	Hotspot	QPSK	Mode B	5	Edge 2	20525	836.5	1	25	24.4	23.7	0.422	0.496	0.272	0.320	
								25	12	24.4	23.8	0.431	0.497	0.279	0.322	
					Edge 3	20525	836.5	1	25	24.4	23.7	0.221	0.260	0.104	0.122	
								25	12	24.4	23.8	0.229	0.264	0.107	0.124	
					Edge 4	20525	836.5	1	25	24.4	23.7	0.800	0.940	0.519	0.610	
								25	12	24.4	23.8	0.832	0.960	0.540	0.623	26
								50	0	24.4	23.8	0.826	0.951	0.535	0.616	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT2	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	24.2	23.5	0.248	0.291	0.137	0.161	
								25	12	23.2	22.5	0.193	0.227	0.106	0.125	
					Left Tilt	20525	836.5	1	25	24.2	23.5	0.223	0.262	0.116	0.136	
								25	12	23.2	22.5	0.183	0.215	0.094	0.110	
					Right Touch	20525	836.5	1	25	24.2	23.5	0.618	0.726	0.416	0.489	27
								25	12	23.2	22.5	0.502	0.590	0.339	0.398	
					Right Tilt	20525	836.5	1	25	24.2	23.5	0.563	0.661	0.317	0.372	
								25	12	23.2	22.5	0.463	0.544	0.259	0.304	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	24.2	23.5	0.201	0.236	0.104	0.122	
								25	12	23.2	22.5	0.167	0.196	0.086	0.101	
					Front	20525	836.5	1	25	24.2	23.5	0.216	0.254	0.111	0.130	28
								25	12	23.2	22.5	0.179	0.210	0.092	0.108	
	Hotspot	QPSK	Mode B	5	Edge 1	20525	836.5	1	25	24.2	23.5	0.167	0.196	0.073	0.086	
								25	12	23.2	22.5	0.138	0.162	0.061	0.072	
					Edge 2	20525	836.5	1	25	24.2	23.5	0.349	0.410	0.224	0.263	29
								25	12	23.2	22.5	0.287	0.337	0.184	0.216	
					Edge 4	20525	836.5	1	25	24.2	23.5	0.020	0.023	0.012	0.014	
								25	12	23.2	22.5	0.016	0.019	0.010	0.011	

UL CA 5B

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Left Touch	20476	831.6	1	49	20575	841.5	1	0	25.7	24.7	0.235	0.296	0.177	0.223	
	Body	QPSK	Mode B	5	Front	20476	831.6	1	49	20575	841.5	1	0	24.4	22.8	0.243	0.351	0.151	0.218	
	Hotspot	QPSK	Mode B	5	Edge 4	20476	831.6	1	49	20575	841.5	1	0	24.4	22.8	0.325	0.470	0.211	0.305	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 2	Head	QPSK	Mode A	0	Right Touch	20476	831.6	1	49	20575	841.5	1	0	24.2	22.8	0.227	0.313	0.113	0.156	
	Body	QPSK	Mode B	5	Front	20476	831.6	1	49	20575	841.5	1	0	24.2	22.8	0.183	0.253	0.094	0.129	
	Hotspot	QPSK	Mode B	5	Edge 2	20476	831.6	1	49	20575	841.5	1	0	24.2	22.8	0.175	0.242	0.089	0.123	

Note(s):

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

10.7. 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	20850	2510.0	1	49	24.3	23.7	0.510	0.586	0.286	0.328	
								50	24	24.3	23.7	0.559	0.639	0.310	0.354	
						21100	2535.0	1	49	24.3	23.6	0.758	0.891	0.417	0.490	
								50	24	24.3	23.8	0.780	0.875	0.432	0.485	
						21350	2560.0	1	49	24.3	23.7	0.918	1.054	0.499	0.573	30
								50	24	24.3	23.9	0.942	1.033	0.512	0.561	
					Left Tilt	21100	2535.0	1	49	24.3	23.6	0.197	0.231	0.096	0.113	
								50	24	24.3	23.8	0.202	0.227	0.097	0.109	
					Right Touch	21100	2535.0	1	49	24.3	23.6	0.276	0.324	0.160	0.188	
								50	24	24.3	23.8	0.271	0.304	0.158	0.177	
					Right Tilt	21100	2535.0	1	49	24.3	23.6	0.171	0.201	0.078	0.091	
								50	24	24.3	23.8	0.147	0.165	0.070	0.078	
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	18.4	18.2	0.679	0.711	0.273	0.286	
								50	24	18.4	18.3	0.692	0.711	0.276	0.283	
						20850	2510.0	1	49	18.4	18.3	0.822	0.841	0.336	0.344	
								50	24	18.4	18.4	0.832	0.832	0.339	0.339	
					Front	21100	2535.0	1	49	18.4	18.2	0.857	0.897	0.353	0.370	
								50	24	18.4	18.3	0.880	0.904	0.363	0.373	
						21350	2560.0	1	49	18.4	18.3	0.894	0.894	0.368	0.368	
								50	0	18.4	18.4	0.894	0.894	0.368	0.368	
					Hotspot	21100	2535.0	1	49	18.4	18.3	0.952	0.974	0.390	0.399	31
								50	24	18.4	18.4	0.970	0.970	0.396	0.396	
					Edge 2	21100	2535.0	1	49	18.4	18.2	0.076	0.080	0.034	0.036	
								50	24	18.4	18.3	0.077	0.079	0.034	0.035	
					Edge 3	21100	2535.0	1	49	18.4	18.2	0.558	0.584	0.192	0.201	
								50	24	18.4	18.3	0.573	0.589	0.198	0.203	
					Edge 4	21100	2535.0	1	49	18.4	18.2	0.543	0.569	0.253	0.265	
								50	24	18.4	18.3	0.556	0.571	0.259	0.266	
ANT2	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	49	15.3	14.7	0.948	1.088	0.376	0.432	32
								50	24	15.3	14.8	0.975	1.094	0.385	0.432	
						21100	2535.0	1	49	15.3	14.6	0.898	1.055	0.358	0.421	
								50	24	15.3	14.8	0.932	1.046	0.370	0.415	
						21350	2560.0	1	49	15.3	14.7	0.782	0.906	0.315	0.365	
								50	24	15.3	14.9	0.822	0.910	0.331	0.366	
					Left Tilt	20850	2510.0	1	49	15.3	14.7	0.847	0.972	0.294	0.338	
								50	24	15.3	14.8	0.917	1.029	0.335	0.376	
						21100	2535.0	1	49	15.3	14.6	0.772	0.907	0.286	0.336	
								50	24	15.3	14.8	0.805	0.903	0.297	0.333	
						21350	2560.0	1	49	15.3	14.7	0.723	0.838	0.265	0.307	
								50	24	15.3	14.9	0.761	0.842	0.278	0.308	
					Right Touch	21100	2535.0	1	49	15.3	14.6	0.400	0.470	0.172	0.202	
								50	24	15.3	14.8	0.419	0.470	0.181	0.203	
					Right Tilt	21100	2535.0	1	49	15.3	14.6	0.397	0.466	0.163	0.192	
								50	24	15.3	14.8	0.416	0.467	0.172	0.193	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	16.8	16.1	0.635	0.748	0.257	0.303	
								50	24	16.8	16.2	0.644	0.748	0.262	0.304	
						21100	2535.0	1	49	16.8	16.0	0.663	0.806	0.270	0.328	
								50	24	16.8	16.1	0.684	0.813	0.278	0.330	
					Front	21350	2560.0	1	49	16.8	15.9	0.518	0.637	0.226	0.278	
								50	24	16.8	16.2	0.533	0.619	0.233	0.271	
						20850	2510.0	1	49	16.8	16.1	0.663	0.781	0.263	0.310	
								50	24	16.8	16.2	0.677	0.786	0.269	0.312	
					Hotspot	21100	2535.0	1	49	16.8	16.0	0.710	0.863	0.290	0.353	
								50	24	16.8	16.1	0.726	0.863	0.296	0.352	
						21350	2560.0	1	49	16.8	16.1	0.735	0.874	0.294	0.349	33
								50	0	16.8	16.1	0.735	0.874	0.294	0.349	
					Edge 1	21100	2535.0	1	49	16.8	16.0	0.438	0.533	0.144	0.175	
								50	24	16.8	16.1	0.453	0.538	0.132	0.157	
					Edge 2	21100	2535.0	1	49	16.8	16.0	0.412	0.501	0.204	0.248	
								50	24	16.8	16.1	0.427	0.507	0.208	0.247	
					Edge 4	21100	2535.0	1	49	16.8	16.0	0.020	0.024	0.005	0.006	
								50	24	16.8	16.1	0.019	0.023	0.005	0.006	

UL CA 7C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Left Touch	21152	2540.2	1	99	21350	2560.0	1	0	24.3	23.1	0.297	0.392	0.166	0.219	
	Body & Hotspot	QPSK	Mode B	5	Front	21152	2540.2	1	99	21350	2560.0	1	0	18.4	17.2	0.397	0.523	0.158	0.208	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 2	Head	QPSK	Mode A	0	Left Touch	20850	2510	1	99	21048	2529.8	1	0	15.3	14.4	0.448	0.551	0.176	0.217	
	Body & Hotspot	QPSK	Mode B	5	Front	21001	2525.1	1	99	21199	2544.9	1	0	16.8	15.9	0.298	0.367	0.118	0.145	

Note(s):

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

10.8. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	25.7	24.8	0.339	0.417	0.258	0.317	34
								25	12	24.7	23.8	0.280	0.344	0.213	0.262	
					Left Tilt	23095	707.5	1	25	25.7	24.8	0.108	0.133	0.086	0.106	
								25	12	24.7	23.8	0.090	0.110	0.072	0.088	
					Right Touch	23095	707.5	1	25	25.7	24.8	0.335	0.412	0.257	0.316	
								25	12	24.7	23.8	0.276	0.340	0.209	0.257	
					Right Tilt	23095	707.5	1	25	25.7	24.8	0.090	0.111	0.057	0.070	
								25	12	24.7	23.8	0.075	0.093	0.047	0.058	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	25.7	24.8	0.651	0.801	0.402	0.495	35
								25	12	24.7	23.8	0.599	0.737	0.369	0.454	
					Front	23095	707.5	1	25	25.7	24.8	0.546	0.672	0.373	0.459	
								25	12	24.7	23.8	0.433	0.533	0.290	0.357	
					Edge 2	23095	707.5	1	25	25.7	24.8	0.539	0.663	0.357	0.439	
								25	12	24.7	23.8	0.464	0.571	0.307	0.378	
	Hotspot	QPSK	Mode B	5	Edge 3	23095	707.5	1	25	25.7	24.8	0.217	0.267	0.100	0.123	
								25	12	24.7	23.8	0.180	0.221	0.084	0.103	
					Edge 4	23095	707.5	1	25	25.7	24.8	0.601	0.739	0.394	0.485	
								25	12	24.7	23.8	0.509	0.626	0.332	0.408	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	24.2	23.3	0.541	0.666	0.379	0.466	
								25	12	23.2	22.4	0.451	0.547	0.314	0.381	
					Left Tilt	23095	707.5	1	25	24.2	23.3	0.545	0.670	0.304	0.374	
								25	12	23.2	22.4	0.455	0.552	0.254	0.308	
					Right Touch	23095	707.5	1	25	24.2	23.3	0.657	0.808	0.391	0.481	36
								25	12	23.2	22.4	0.546	0.662	0.323	0.392	
					Right Tilt	23095	707.5	1	25	24.2	23.3	0.580	0.714	0.324	0.399	
								25	12	23.2	22.4	0.484	0.587	0.270	0.327	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	24.2	23.3	0.300	0.369	0.223	0.274	37
								25	12	23.2	22.4	0.244	0.296	0.174	0.211	
					Front	23095	707.5	1	25	24.2	23.3	0.289	0.356	0.188	0.231	
								25	12	23.2	22.4	0.238	0.289	0.154	0.187	
					Edge 1	23095	707.5	1	25	24.2	23.3	0.200	0.246	0.097	0.119	
								25	12	23.2	22.4	0.169	0.205	0.082	0.100	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	25	24.2	23.3	0.364	0.448	0.243	0.299	38
								25	12	23.2	22.4	0.313	0.379	0.209	0.253	
					Edge 4	23095	707.5	1	25	24.2	23.3	0.326	0.401	0.216	0.266	
								25	12	23.2	22.4	0.267	0.324	0.177	0.215	

10.9. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	25.7	24.9	0.439	0.528	0.337	0.405	
								25	12	24.7	24.0	0.362	0.426	0.276	0.325	
					Left Tilt	23230	782.0	1	25	25.7	24.9	0.267	0.321	0.212	0.255	
								25	12	24.7	24.0	0.222	0.261	0.176	0.207	
					Right Touch	23230	782.0	1	25	25.7	24.9	0.444	0.534	0.343	0.412	39
								25	12	24.7	24.0	0.360	0.424	0.278	0.327	
					Right Tilt	23230	782.0	1	25	25.7	24.9	0.276	0.332	0.220	0.264	
								25	12	24.7	24.0	0.224	0.264	0.178	0.209	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	25.7	24.9	0.638	0.767	0.380	0.457	40
								25	12	24.7	24.0	0.540	0.635	0.320	0.377	
					Front	23230	782.0	1	25	25.7	24.9	0.553	0.665	0.337	0.405	
								25	12	24.7	24.0	0.449	0.528	0.276	0.325	
					Edge 2	23230	782.0	1	25	25.7	24.9	0.631	0.759	0.416	0.500	
								25	12	24.7	24.0	0.425	0.500	0.240	0.282	
	Hotspot	QPSK	Mode B	5	Edge 3	23230	782.0	1	25	25.7	24.9	0.266	0.320	0.112	0.135	
								25	12	24.7	24.0	0.217	0.255	0.091	0.107	
					Edge 4	23230	782.0	1	25	25.7	24.9	0.756	0.909	0.494	0.594	41
								25	12	24.7	24.0	0.621	0.731	0.405	0.477	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	24.2	23.3	0.228	0.281	0.139	0.171	
								25	12	23.2	22.4	0.188	0.226	0.115	0.138	
					Left Tilt	23230	782.0	1	25	24.2	23.3	0.263	0.324	0.144	0.177	
								25	12	23.2	22.4	0.217	0.261	0.119	0.143	
					Right Touch	23230	782.0	1	25	24.2	23.3	0.311	0.383	0.166	0.204	42
								25	12	23.2	22.4	0.256	0.308	0.136	0.164	
					Right Tilt	23230	782.0	1	25	24.2	23.3	0.266	0.327	0.140	0.172	
								25	12	23.2	22.4	0.221	0.266	0.116	0.140	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	24.2	23.3	0.199	0.245	0.106	0.130	
								25	12	23.2	22.4	0.161	0.194	0.086	0.104	
					Front	23230	782.0	1	25	24.2	23.3	0.217	0.267	0.116	0.143	43
								25	12	23.2	22.4	0.179	0.216	0.096	0.116	
					Edge 1	23230	782.0	1	25	24.2	23.3	0.157	0.193	0.072	0.089	
								25	12	23.2	22.4	0.130	0.157	0.059	0.071	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	25	24.2	23.3	0.207	0.255	0.137	0.169	
								25	12	23.2	22.4	0.170	0.205	0.112	0.135	
					Edge 4	23230	782.0	1	25	24.2	23.3	0.092	0.113	0.060	0.074	
								25	12	23.2	22.4	0.076	0.091	0.049	0.059	

10.10. 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	25	25.7	24.9	0.435	0.523	0.331	0.398	44
								25	12	24.7	24.0	0.348	0.409	0.264	0.310	
					Left Tilt	23330	793.0	1	25	25.7	24.9	0.287	0.345	0.225	0.271	
								25	12	24.7	24.0	0.225	0.264	0.176	0.207	
					Right Touch	23330	793.0	1	25	25.7	24.9	0.421	0.506	0.322	0.387	
								25	12	24.7	24.0	0.344	0.404	0.264	0.310	
					Right Tilt	23330	793.0	1	25	25.7	24.9	0.238	0.286	0.187	0.225	
								25	12	24.7	24.0	0.224	0.263	0.176	0.207	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	25	25.7	24.9	0.735	0.884	0.421	0.506	45
								25	12	24.7	24.0	0.660	0.775	0.371	0.436	
					Front	23330	793.0	1	25	25.7	24.9	0.572	0.688	0.354	0.426	
								25	12	24.7	24.0	0.479	0.563	0.292	0.343	
	Hotspot	QPSK	Mode B	5	Edge 2	23330	793.0	1	25	25.7	24.9	0.593	0.713	0.389	0.468	
								25	12	24.7	24.0	0.483	0.567	0.317	0.372	
					Edge 3	23330	793.0	1	25	25.7	24.9	0.222	0.267	0.100	0.120	
								25	12	24.7	24.0	0.181	0.213	0.080	0.094	
					Edge 4	23330	793.0	1	25	25.7	24.9	0.632	0.760	0.413	0.497	
								25	12	24.7	24.0	0.518	0.609	0.338	0.397	

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	25	24.2	23.3	0.242	0.298	0.146	0.180	
								25	12	23.2	22.3	0.197	0.243	0.120	0.148	
					Left Tilt	23330	793.0	1	25	24.2	23.3	0.289	0.356	0.153	0.188	
								25	12	23.2	22.3	0.237	0.292	0.125	0.154	
					Right Touch	23330	793.0	1	25	24.2	23.3	0.344	0.423	0.180	0.221	46
								25	12	23.2	22.3	0.282	0.348	0.147	0.181	
					Right Tilt	23330	793.0	1	25	24.2	23.3	0.288	0.354	0.149	0.183	
								25	12	23.2	22.3	0.237	0.292	0.123	0.152	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	25	24.2	23.3	0.244	0.300	0.125	0.154	47
								25	12	23.2	22.3	0.199	0.245	0.102	0.126	
					Front	23330	793.0	1	25	24.2	23.3	0.217	0.267	0.115	0.141	
								25	12	23.2	22.3	0.177	0.218	0.094	0.116	
	Hotspot	QPSK	Mode B	5	Edge 1	23330	793.0	1	25	24.2	23.3	0.153	0.188	0.068	0.083	
								25	12	23.2	22.3	0.124	0.153	0.055	0.067	
					Edge 2	23330	793.0	1	25	24.2	23.3	0.179	0.220	0.117	0.144	48
								25	12	23.2	22.3	0.147	0.181	0.096	0.118	
					Edge 4	23330	793.0	1	25	24.2	23.3	0.065	0.080	0.042	0.052	
								25	12	23.2	22.3	0.053	0.065	0.034	0.042	

10.11. 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	23.1	22.4	0.285	0.335	0.182	0.214	
								50	24	23.1	22.6	0.289	0.324	0.187	0.210	
					Left Tilt	26365	1882.5	1	49	23.1	22.4	0.136	0.160	0.082	0.096	
								50	24	23.1	22.6	0.140	0.157	0.084	0.094	
					Right Touch	26365	1882.5	1	49	23.1	22.4	0.356	0.418	0.231	0.271	49
								50	24	23.1	22.6	0.368	0.413	0.238	0.267	
					Right Tilt	26365	1882.5	1	49	23.1	22.4	0.167	0.196	0.096	0.113	
								50	24	23.1	22.6	0.179	0.201	0.102	0.114	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	18.6	17.7	0.696	0.856	0.322	0.396	
								50	24	18.6	17.7	0.718	0.875	0.331	0.403	
						26365	1882.5	1	49	18.6	17.6	0.713	0.898	0.322	0.405	
								50	24	18.6	17.8	0.729	0.876	0.333	0.400	
					Front	26590	1905.0	1	49	18.6	17.6	0.753	0.948	0.347	0.437	50
								50	24	18.6	17.7	0.754	0.928	0.347	0.427	
						26365	1882.5	1	49	18.6	17.6	0.545	0.686	0.260	0.327	
								50	24	18.6	17.8	0.549	0.660	0.263	0.316	
					Edge 3	26140	1860.0	1	49	18.6	17.7	0.689	0.848	0.323	0.397	
								50	24	18.6	17.7	0.701	0.855	0.329	0.401	
						26365	1882.5	1	49	18.6	17.6	0.688	0.866	0.318	0.400	
								50	24	18.6	17.8	0.684	0.822	0.315	0.379	
						26590	1905.0	1	49	18.6	17.6	0.639	0.804	0.289	0.364	
								50	24	18.6	17.7	0.690	0.849	0.304	0.374	
					Edge 4	26365	1882.5	1	49	18.6	17.6	0.103	0.130	0.056	0.070	
								50	24	18.6	17.8	0.105	0.126	0.057	0.069	
ANT2	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	18.2	17.3	0.226	0.281	0.112	0.139	
								50	24	18.2	17.4	0.226	0.272	0.113	0.136	
					Left Tilt	26365	1882.5	1	49	18.2	17.3	0.259	0.322	0.127	0.158	
								50	24	18.2	17.4	0.265	0.319	0.127	0.153	
					Right Touch	26140	1860.0	1	49	18.2	17.4	0.740	0.890	0.402	0.483	
								50	24	18.2	17.5	0.768	0.911	0.417	0.494	
						26365	1882.5	1	49	18.2	17.3	0.776	0.966	0.405	0.504	
								50	24	18.2	17.4	0.760	0.914	0.394	0.474	
					Right Tilt	26590	1905.0	1	49	18.2	17.3	0.798	0.979	0.413	0.507	
								50	24	18.2	17.3	0.857	1.054	0.440	0.541	
					Front	26140	1860.0	1	49	18.2	17.4	0.807	0.970	0.372	0.447	
								50	24	18.2	17.5	0.827	0.981	0.382	0.453	
					26365	1882.5		1	49	18.2	17.3	0.819	1.019	0.370	0.460	
								50	24	18.2	17.4	0.835	1.004	0.374	0.450	
					26590	1905.0		1	49	18.2	17.3	0.848	1.041	0.380	0.466	
								50	24	18.2	17.3	0.861	1.059	0.386	0.475	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	19.1	18.6	0.573	0.643	0.277	0.311	
								50	24	19.1	18.7	0.584	0.640	0.282	0.309	
					Front	26140	1860.0	1	49	19.1	18.7	0.734	0.812	0.351	0.388	
								50	24	19.1	18.9	0.758	0.794	0.363	0.380	
					26365	1882.5		1	49	19.1	18.6	0.767	0.861	0.363	0.407	52
								50	24	19.1	18.7	0.740	0.811	0.353	0.387	
					26590	1905.0		1	49	19.1	18.8	0.738	0.791	0.350	0.375	
								50	24	19.1	18.6	0.755	0.849	0.357	0.401	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	19.1	18.6	0.467	0.524	0.199	0.223	
								50	24	19.1	18.7	0.485	0.532	0.204	0.224	
					Edge 2	26365	1882.5	1	49	19.1	18.6	0.040	0.045	0.021	0.024	
								50	24	19.1	18.7	0.041	0.045	0.022	0.024	
					Edge 4	26365	1882.5	1	49	19.1	18.6	0.424	0.476	0.220	0.247	
								50	24	19.1	18.7	0.436	0.478	0.226	0.248	

10.12. LTE Band 26 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	25.7	24.7	0.565	0.711	0.429	0.540	53
								25	12	24.7	23.8	0.461	0.567	0.297	0.365	
					Left Tilt	26865	831.5	1	25	25.7	24.7	0.295	0.371	0.229	0.288	
								25	12	24.7	23.8	0.243	0.299	0.188	0.231	
					Right Touch	26865	831.5	1	25	25.7	24.7	0.477	0.601	0.361	0.454	
								25	12	24.7	23.8	0.387	0.476	0.294	0.362	
					Right Tilt	26865	831.5	1	25	25.7	24.7	0.282	0.355	0.219	0.276	
								25	12	24.7	23.8	0.228	0.281	0.177	0.218	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	24.4	23.4	0.546	0.686	0.328	0.412	
								25	12	24.4	23.5	0.565	0.702	0.338	0.420	54
					Front	26865	831.5	1	25	24.4	23.4	0.463	0.582	0.348	0.437	
								25	12	24.4	23.5	0.473	0.587	0.303	0.376	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	25	24.4	23.4	0.570	0.716	0.373	0.468	
								25	12	24.4	23.5	0.587	0.729	0.384	0.477	
					Edge 3	26865	831.5	1	25	24.4	23.4	0.192	0.241	0.093	0.117	
								25	12	24.4	23.5	0.206	0.256	0.098	0.122	
					Edge 4	26740	819.0	1	25	24.4	23.6	0.787	0.946	0.517	0.622	
								25	12	24.4	23.6	0.809	0.975	0.530	0.639	55
						26865	831.5	1	25	24.4	23.4	0.665	0.835	0.429	0.539	
								25	12	24.4	23.5	0.680	0.844	0.438	0.544	
								50	0	24.4	23.5	0.679	0.835	0.437	0.538	
						26990	844.0	1	25	24.4	23.5	0.716	0.891	0.461	0.574	
								25	12	24.4	23.5	0.725	0.890	0.467	0.573	
ANT2	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	24.2	23.3	0.188	0.231	0.106	0.130	
								25	12	23.2	22.3	0.155	0.192	0.086	0.107	
					Left Tilt	26865	831.5	1	25	24.2	23.3	0.188	0.231	0.098	0.121	
								25	12	23.2	22.3	0.154	0.191	0.080	0.099	
					Right Touch	26740	819.0	1	25	24.2	23.3	0.675	0.830	0.461	0.567	
								1	25	24.2	23.3	0.713	0.877	0.482	0.593	56
						26865	831.5	25	12	23.2	22.3	0.594	0.736	0.401	0.497	
								1	25	24.2	23.2	0.579	0.729	0.402	0.506	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	26865	831.5	1	25	24.2	23.3	0.468	0.576	0.282	0.347	
								25	12	23.2	22.3	0.386	0.478	0.233	0.289	
					Rear	26865	831.5	1	25	24.2	23.3	0.188	0.231	0.095	0.117	
								25	12	23.2	22.3	0.153	0.190	0.077	0.095	
					Front	26865	831.5	1	25	24.2	23.3	0.195	0.240	0.100	0.123	57
								25	12	23.2	22.3	0.159	0.197	0.081	0.100	
	Hotspot	QPSK	Mode B	5	Edge 1	26865	831.5	1	25	24.2	23.3	0.145	0.178	0.063	0.078	
								25	12	23.2	22.3	0.119	0.147	0.052	0.064	
					Edge 2	26865	831.5	1	25	24.2	23.3	0.382	0.470	0.246	0.303	58
								25	12	23.2	22.3	0.313	0.388	0.201	0.249	
					Edge 4	26865	831.5	1	25	24.2	23.3	0.018	0.022	0.011	0.014	
								25	12	23.2	22.3	0.015	0.019	0.008	0.010	

10.13. LTE Band 30 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	24.0	23.4	0.409	0.470	0.240	0.276	
								25	12	24.0	23.5	0.414	0.470	0.242	0.275	
					Left Tilt	27710	2310.0	1	25	24.0	23.4	0.183	0.210	0.101	0.116	
								25	12	24.0	23.5	0.184	0.209	0.101	0.115	
					Right Touch	27710	2310.0	1	25	24.0	23.4	0.420	0.482	0.252	0.289	59
								25	12	24.0	23.5	0.423	0.480	0.253	0.287	
					Right Tilt	27710	2310.0	1	25	24.0	23.4	0.258	0.296	0.135	0.155	
								25	12	24.0	23.5	0.236	0.268	0.108	0.123	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	19.3	18.8	0.854	0.958	0.321	0.360	
								25	12	19.3	18.8	0.881	0.993	0.331	0.373	
								50	0	19.3	18.8	0.864	0.972	0.324	0.364	
					Front	27710	2310.0	1	25	19.3	18.8	0.791	0.888	0.324	0.364	
								25	12	19.3	18.8	0.811	0.914	0.336	0.379	
								50	0	19.3	18.8	0.806	0.906	0.334	0.376	
					Edge 2	27710	2310.0	1	25	19.3	18.8	0.328	0.368	0.150	0.168	
								25	12	19.3	18.8	0.334	0.376	0.153	0.172	
								1	25	19.3	18.8	0.093	0.104	0.049	0.055	
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	25	12	19.3	18.8	0.100	0.113	0.052	0.059	
								1	25	19.3	18.8	0.442	0.496	0.206	0.231	
					Edge 4	27710	2310.0	25	12	19.3	18.8	0.451	0.508	0.210	0.237	
								1	25	19.3	18.8	0.442	0.496	0.206	0.231	
					Edge 4	27710	2310.0	25	12	19.3	18.8	0.451	0.508	0.210	0.237	
								1	25	19.3	18.8	0.442	0.496	0.206	0.231	
ANT2	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	18.4	17.6	0.635	0.763	0.350	0.421	
								25	12	18.4	17.6	0.655	0.780	0.339	0.404	
					Left Tilt	27710	2310.0	1	25	18.4	17.6	0.587	0.706	0.304	0.365	
								25	12	18.4	17.6	0.604	0.720	0.308	0.367	
					Right Touch	27710	2310.0	1	25	18.4	17.6	0.834	1.003	0.435	0.523	
								25	12	18.4	17.6	0.852	1.015	0.437	0.521	
					Right Tilt	27710	2310.0	50	0	18.4	17.7	0.844	0.996	0.434	0.512	61
								1	25	18.4	17.6	0.868	1.044	0.263	0.316	
								25	12	18.4	17.6	0.900	1.072	0.432	0.515	
								50	0	18.4	17.7	0.848	1.001	0.404	0.477	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	18.2	17.5	0.757	0.891	0.342	0.403	
								25	12	18.2	17.5	0.763	0.892	0.354	0.414	
								50	0	18.2	17.5	0.735	0.858	0.339	0.396	
					Front	27710	2310.0	1	25	18.2	17.5	0.518	0.610	0.256	0.301	
								25	12	18.2	17.5	0.533	0.623	0.264	0.309	
								1	25	18.2	17.5	0.318	0.374	0.149	0.175	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	25	12	18.2	17.5	0.335	0.392	0.154	0.180	
								1	25	18.2	17.5	0.131	0.154	0.067	0.079	
					Edge 2	27710	2310.0	25	12	18.2	17.5	0.135	0.158	0.069	0.081	
								1	25	18.2	17.5	0.409	0.482	0.200	0.236	
					Edge 4	27710	2310.0	25	12	18.2	17.5	0.423	0.495	0.207	0.242	
								1	25	18.2	17.5	0.409	0.482	0.200	0.236	
					Edge 4	27710	2310.0	25	12	18.2	17.5	0.423	0.495	0.207	0.242	
								1	25	18.2	17.5	0.409	0.482	0.200	0.236	

10.14. 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	25.7	24.8	0.543	0.668	0.292	0.359	63
								50	24	24.7	24.0	0.442	0.523	0.236	0.279	
					Left Tilt	40620	2593.0	1	49	25.7	24.8	0.087	0.107	0.042	0.052	
								50	24	24.7	24.0	0.069	0.082	0.032	0.038	
					Right Touch	40620	2593.0	1	49	25.7	24.8	0.226	0.278	0.126	0.155	
								50	24	24.7	24.0	0.191	0.226	0.106	0.125	
					Right Tilt	40620	2593.0	1	49	25.7	24.8	0.096	0.118	0.041	0.050	
								50	24	24.7	24.0	0.079	0.093	0.034	0.040	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	20.8	20.1	0.580	0.681	0.232	0.273	
								50	24	20.8	20.2	0.600	0.690	0.240	0.276	
					Front	39750	2506.0	1	49	20.8	20.1	0.589	0.692	0.243	0.286	
								50	24	20.8	20.2	0.626	0.717	0.257	0.294	
						40185	2549.5	1	49	20.8	20.1	0.703	0.826	0.287	0.337	
								50	24	20.8	20.2	0.731	0.839	0.298	0.342	
						40620	2593.0	1	49	20.8	20.1	0.748	0.879	0.296	0.348	
								50	24	20.8	20.2	0.776	0.893	0.309	0.356	
								100	0	20.8	20.2	0.789	0.914	0.316	0.366	
						41055	2636.5	1	49	20.8	20.1	0.810	0.952	0.323	0.379	
								50	24	20.8	20.2	0.845	0.979	0.336	0.389	64
								1	49	20.8	20.0	0.768	0.923	0.305	0.367	
						41490	2680.0	50	24	20.8	20.0	0.809	0.982	0.319	0.387	
	Hotspot	QPSK	Mode B	5	Edge 2	40620	2593.0	1	49	20.8	20.1	0.053	0.062	0.023	0.027	
								50	24	20.8	20.2	0.550	0.633	0.024	0.028	
					Edge 3	40620	2593.0	1	49	20.8	20.1	0.507	0.596	0.166	0.195	
								50	24	20.8	20.2	0.524	0.603	0.171	0.197	
					Edge 4	40620	2593.0	1	49	20.8	20.1	0.443	0.520	0.202	0.237	
								50	24	20.8	20.2	0.468	0.539	0.213	0.245	

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	17.4	16.9	0.497	0.558	0.206	0.231	
								50	24	17.4	17.0	0.513	0.562	0.212	0.232	
					Left Tilt	40620	2593.0	1	49	17.4	16.9	0.568	0.637	0.210	0.236	
								50	24	17.4	17.0	0.590	0.647	0.219	0.240	65
					Right Touch	40620	2593.0	1	49	17.4	16.9	0.278	0.312	0.109	0.122	
								50	24	17.4	17.0	0.293	0.321	0.114	0.125	
					Right Tilt	40620	2593.0	1	49	17.4	16.9	0.332	0.373	0.118	0.132	
								50	24	17.4	17.0	0.336	0.368	0.126	0.138	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	18.6	18.0	0.521	0.598	0.237	0.272	
								50	24	18.6	18.2	0.552	0.605	0.251	0.275	66
					Front	40620	2593.0	1	49	18.6	18.0	0.423	0.486	0.191	0.219	
								50	24	18.6	18.2	0.435	0.477	0.197	0.216	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	18.6	18.0	0.249	0.286	0.079	0.091	
								50	24	18.6	18.2	0.265	0.291	0.085	0.093	
					Edge 2	40620	2593.0	1	49	18.6	18.0	0.273	0.313	0.120	0.138	
								50	24	18.6	18.2	0.345	0.378	0.156	0.171	
					Edge 4	40620	2593.0	1	49	18.6	18.0	0.033	0.038	0.016	0.018	
								50	24	18.6	18.2	0.036	0.039	0.016	0.017	

UL CA 41C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Left Touch	40521	2583.1	1	99	40719	2602.9	1	0	25.7	24.9	0.261	0.314	0.142	0.171	
	Body & Hotspot	QPSK	Mode B	5	Front	41292	2660.2	1	99	41490	2680.0	1	0	20.8	20.0	0.397	0.477	0.156	0.188	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	39750	2506.0	1	99	39948	2525.8	1	0	17.4	17.0	0.540	0.592	0.205	0.225	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	99	39948	2525.8	1	0	18.6	18.0	0.299	0.343	0.118	0.135	

Note(s):

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

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

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

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

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

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

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

Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2			Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)		
ANT1	Head	43.3%	26.80	207.25	63.3%	25.70	235.18	0.668	0.589	-11.88%

Conclusion:

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

ULCA41C Power class 2

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 1-g SAR (W/kg)		
ANT1	Head	43.3%	26.80	207.25	63.3%	25.70	235.18	0.314	0.277	-11.88%

Conclusion:

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

10.16. LTE Band 48 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	99	22.7	22.1	0.217	0.250	0.098	0.113	67
								50	24	22.7	22.2	0.217	0.241	0.097	0.108	
					Left Tilt	56207	3646.7	1	99	22.7	22.1	0.149	0.171	0.058	0.067	
								50	24	22.7	22.2	0.119	0.132	0.046	0.051	
					Right Touch	56207	3646.7	1	99	22.7	22.1	0.103	0.119	0.047	0.054	
								50	24	22.7	22.2	0.108	0.120	0.051	0.056	
					Right Tilt	56207	3646.7	1	99	22.7	22.1	0.096	0.111	0.035	0.040	
								50	24	22.7	22.2	0.095	0.106	0.038	0.042	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	99	22.7	22.1	0.427	0.491	0.128	0.147	
								50	24	22.7	22.2	0.458	0.509	0.141	0.157	68
					Front	56207	3646.7	1	99	22.7	22.1	0.311	0.358	0.105	0.121	
								50	24	22.7	22.2	0.315	0.350	0.104	0.116	
	Hotspot	QPSK	Mode B	5	Edge 2	56207	3646.7	1	99	22.7	22.1	0.234	0.269	0.081	0.093	
								50	24	22.7	22.2	0.284	0.316	0.099	0.110	
					Edge 3	56207	3646.7	1	99	22.7	22.1	0.344	0.396	0.109	0.125	
								50	24	22.7	22.2	0.359	0.399	0.110	0.122	
					Edge 4	56207	3646.7	1	99	22.7	22.1	0.272	0.313	0.110	0.127	
								50	24	22.7	22.2	0.296	0.329	0.120	0.133	

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	56207	3646.7	1	49	19.2	18.6	0.197	0.226	0.073	0.083	
								50	24	19.2	18.6	0.206	0.235	0.075	0.085	
					Left Tilt	56207	3646.7	1	49	19.2	18.6	0.182	0.209	0.064	0.074	
								50	24	19.2	18.6	0.188	0.214	0.065	0.074	
					Right Touch	55340	3560.0	1	49	19.2	18.5	0.901	1.059	0.315	0.370	
								50	24	19.2	18.6	0.941	1.093	0.327	0.380	69
						55773	3603.3	1	49	19.2	18.5	0.823	0.967	0.287	0.337	
								50	24	19.2	18.5	0.871	1.021	0.302	0.354	
						56207	3646.7	1	49	19.2	18.6	0.813	0.933	0.281	0.323	
								50	24	19.2	18.6	0.849	0.968	0.295	0.336	
						56640	3690.0	100	0	19.2	18.6	0.847	0.970	0.294	0.337	
								1	49	19.2	18.5	0.794	0.933	0.274	0.322	
						56207	3646.7	50	24	19.2	18.6	0.823	0.943	0.284	0.325	
								1	49	19.2	18.6	0.310	0.356	0.112	0.129	
					Right Tilt	56207	3646.7	50	24	19.2	18.6	0.397	0.453	0.141	0.161	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	49	22.5	21.9	0.289	0.336	0.141	0.164	
								50	24	21.5	21.0	0.236	0.263	0.111	0.124	
					Front	56207	3646.7	1	49	22.5	21.9	0.469	0.545	0.180	0.209	70
								50	24	21.5	21.0	0.377	0.420	0.145	0.162	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	22.5	21.9	0.249	0.289	0.094	0.109	
								50	24	21.5	21.0	0.197	0.220	0.072	0.080	
					Edge 4	56207	3646.7	1	49	22.5	21.9	0.613	0.712	0.240	0.279	71
								50	24	21.5	21.0	0.499	0.556	0.194	0.216	

UL CA 48C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Left Touch	55891	3615.1	1	99	56089	3634.9	1	0	22.7	22.1	0.205	0.235	0.089	0.102	
	Hotspot	QPSK	Mode B	5	Rear	55891	3615.1	1	99	56089	3634.9	1	0	22.7	22.1	0.509	0.584	0.198	0.227	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 4	Head	QPSK	Mode A	0	Right Touch	55340	3560.0	1	99	55538	3579.8	1	0	19.2	18.5	0.919	1.080	0.317	0.372	
	Body	QPSK	Mode B	5	Front	55891	3615.1	1	99	56089	3634.9	1	0	22.5	21.8	0.306	0.360	0.112	0.132	
	Hotspot	QPSK	Mode B	5	Edge 4	55891	3615.1	1	99	56089	3634.9	1	0	22.5	21.8	0.520	0.611	0.208	0.244	

Note(s):

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

10.17. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Pow er Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Pow er (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.																																																																																																																																																																																																																																																																																
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled																																																																																																																																																																																																																																																																																	
ANT1	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	24.3	24.3	1.090	1.090	0.706	0.706																																																																																																																																																																																																																																																																																	
								50	24	24.3	24.3	1.060	1.067	0.680	0.685																																																																																																																																																																																																																																																																																	
						132322	1745.0	1	49	24.3	24.2	1.110	1.144	0.711	0.733																																																																																																																																																																																																																																																																																	
								50	24	24.3	24.3	1.060	1.060	0.679	0.679																																																																																																																																																																																																																																																																																	
						132572	1770.0	100	0	24.3	24.3	1.060	1.062	0.679	0.681																																																																																																																																																																																																																																																																																	
								1	49	24.3	24.2	1.120	1.146	0.713	0.730	72																																																																																																																																																																																																																																																																																
							50	24	24.3	24.3	1.070	1.082	0.681	0.689																																																																																																																																																																																																																																																																																		
							Left Tilt	132322	1745.0	1	49	24.3	24.2	0.203	0.209	0.131	0.135																																																																																																																																																																																																																																																																															
					50	24				24.3	24.3	0.156	0.156	0.101	0.101																																																																																																																																																																																																																																																																																	
							Right Touch	132322	1745.0	1	49	24.3	24.2	0.581	0.599	0.388	0.400																																																																																																																																																																																																																																																																															
										50	24	24.3	24.3	0.542	0.542	0.364	0.364																																																																																																																																																																																																																																																																															
							Right Tilt	132322	1745.0	1	49	24.3	24.2	0.411	0.423	0.245	0.252																																																																																																																																																																																																																																																																															
										50	24	24.3	24.3	0.338	0.338	0.202	0.202																																																																																																																																																																																																																																																																															
						Rear	132072	1720.0	1	49	21.5	20.9	0.642	0.746	0.373	0.433																																																																																																																																																																																																																																																																																
									50	24	21.5	21.1	0.657	0.717	0.384	0.419																																																																																																																																																																																																																																																																																
							132322	1745.0	1	49	21.5	20.9	0.743	0.853	0.410	0.471																																																																																																																																																																																																																																																																																
									50	24	21.5	20.9	0.761	0.870	0.420	0.480																																																																																																																																																																																																																																																																																
							132572	1770.0	100	0	21.5	21.0	0.804	0.902	0.444	0.498																																																																																																																																																																																																																																																																																
									1	49	21.5	20.9	0.854	0.981	0.463	0.532	73																																																																																																																																																																																																																																																																															
									50	24	21.5	21.0	0.872	0.978	0.471	0.528																																																																																																																																																																																																																																																																																
											132072	1720.0	1	49	21.5	20.9	0.668	0.776	0.359	0.417																																																																																																																																																																																																																																																																												
							50	24					21.5	21.1	0.683	0.745	0.366	0.399																																																																																																																																																																																																																																																																														
									132322	1745.0	1	49	21.5	20.9	0.743	0.853	0.385	0.442																																																																																																																																																																																																																																																																														
											50	24	21.5	20.9	0.800	0.914	0.412	0.471																																																																																																																																																																																																																																																																														
											100	0	21.5	21.0	0.785	0.881	0.403	0.452																																																																																																																																																																																																																																																																														
																					132572	1770.0	1	49	21.5	20.9	0.841	0.966	0.427	0.490																																																																																																																																																																																																																																																																		
							50	24	21.5	21.0	0.864	0.969	0.436	0.489																																																																																																																																																																																																																																																																																		
											Edge 2	132322	1745.0	1	49	21.5	20.9	0.112	0.129	0.062	0.071																																																																																																																																																																																																																																																																											
														50	24	21.5	20.9	0.122	0.139	0.067	0.077																																																																																																																																																																																																																																																																											
												Edge 3	132322	1745.0	1	49	21.5	20.9	0.537	0.617	0.253	0.290																																																																																																																																																																																																																																																																										
															50	24	21.5	20.9	0.509	0.582	0.242	0.277																																																																																																																																																																																																																																																																										
											Edge 4	132322	1745.0	1	49	21.5	20.9	0.502	0.576	0.273	0.313																																																																																																																																																																																																																																																																											
														50	24	21.5	20.9	0.523	0.598	0.283	0.323																																																																																																																																																																																																																																																																											

10.18. LTE Band 71 (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	133297	680.5	1	49	25.7	24.8	0.328	0.406	0.248	0.307	76
								50	24	24.7	23.9	0.257	0.309	0.196	0.236	
					Left Tilt	133297	680.5	1	49	25.7	24.8	0.120	0.149	0.081	0.100	
								50	24	24.7	23.9	0.093	0.112	0.063	0.076	
					Right Touch	133297	680.5	1	49	25.7	24.8	0.318	0.394	0.244	0.302	
								50	24	24.7	23.9	0.249	0.299	0.191	0.230	
					Right Tilt	133297	680.5	1	49	25.7	24.8	0.163	0.202	0.106	0.131	
								50	24	24.7	23.9	0.130	0.156	0.084	0.101	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	25.7	24.8	0.599	0.742	0.375	0.465	77
								50	24	24.7	23.9	0.483	0.581	0.299	0.359	
					Front	133297	680.5	1	49	25.7	24.8	0.457	0.566	0.312	0.387	
								50	24	24.7	23.9	0.377	0.453	0.284	0.341	
	Hotspot	QPSK	Mode B	5	Edge 2	133297	680.5	1	49	25.7	24.8	0.524	0.649	0.350	0.434	
								50	24	24.7	23.9	0.419	0.504	0.279	0.335	
					Edge 3	133297	680.5	1	49	25.7	24.8	0.147	0.182	0.070	0.087	
								50	24	24.7	23.9	0.118	0.142	0.054	0.064	
					Edge 4	133297	680.5	1	49	25.7	24.8	0.530	0.657	0.352	0.436	
								50	24	24.7	23.9	0.423	0.509	0.280	0.337	

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	24.2	23.4	0.602	0.724	0.449	0.540	
								50	24	23.2	22.4	0.497	0.604	0.336	0.408	
					Left Tilt	133297	680.5	1	49	24.2	23.4	0.598	0.719	0.322	0.387	
								50	24	23.2	22.4	0.474	0.576	0.260	0.316	
					Right Touch	133297	680.5	1	49	24.2	23.4	0.686	0.825	0.420	0.505	78
								50	24	23.2	22.4	0.572	0.695	0.349	0.424	
					Right Tilt	133297	680.5	1	49	24.2	23.4	0.582	0.700	0.324	0.390	
								50	24	23.2	22.4	0.487	0.592	0.268	0.326	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	24.2	23.4	0.307	0.369	0.209	0.251	
								50	24	23.2	22.4	0.253	0.307	0.172	0.209	
					Front	133297	680.5	1	49	24.2	23.4	0.356	0.428	0.212	0.255	79
								50	24	23.2	22.4	0.292	0.355	0.174	0.211	
	Hotspot	QPSK	Mode B	5	Edge 1	133297	680.5	1	49	24.2	23.4	0.174	0.209	0.081	0.098	
								50	24	23.2	22.4	0.141	0.171	0.066	0.080	
					Edge 2	133297	680.5	1	49	24.2	23.4	0.207	0.249	0.124	0.149	
								50	24	23.2	22.4	0.171	0.208	0.102	0.124	
					Edge 4	133297	680.5	1	49	24.2	23.4	0.225	0.271	0.148	0.178	
								50	24	23.2	22.4	0.186	0.226	0.122	0.148	

SAR Testing for 5G Bands was performed in one of two ways:

- 1.) If the 5G Band has a LTE equivalent Band, such as LTE Band 5 for 5G Band n5; then spot-checks were performed on the worst-case position per Exposure Condition per Antenna. If the Reported SAR Result for the 5G spot-check is $\leq$ the Reported SAR result of the LTE equivalent Band, then no further testing is required. If the value is more than 10% greater than the LTE equivalent Band, full testing is required.
- 2.) If there is no LTE equivalent Band supported on this device, then full testing is required for that band.

10.19. 5G NR Band n5 (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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	167300	836.5	1	52	25.7	25.4	0.338	0.362	0.255	0.273	124
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	167300	836.5	50	25	24.4	24.1	0.462	0.495	0.266	0.285	125
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	167300	836.5	50	25	24.4	24.1	0.638	0.684	0.406	0.435	126
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	DFT-s-OFDM QPSK	Mode A	0	Right Touch	167300	836.5	1	52	24.2	23.8	0.576	0.632	0.362	0.397	127
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	167300	836.5	1	52	24.2	23.8	0.211	0.231	0.130	0.143	128
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	167300	836.5	1	52	24.2	23.8	0.327	0.359	0.212	0.232	129

10.20. 5G NR Band n7 (40MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	510000	2550.0	1	107	24.3	24.0	0.323	0.346	0.178	0.191	130
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	510000	2550.0	1	107	18.4	18.1	0.761	0.815	0.326	0.349	131
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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	504000	2520.0	108	54	15.3	15.0	0.862	0.924	0.370	0.396	132
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	507000	2535.0	108	54	16.8	16.5	0.685	0.734	0.281	0.301	133

10.21. 5G NR Band n12 (15MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	141500	707.5	1	39	25.7	25.3	0.163	0.179	0.128	0.140	134
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	39	25.7	25.3	0.429	0.470	0.242	0.265	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	DFT-s-OFDM QPSK	Mode A	0	Right Touch	141500	707.5	1	39	24.2	23.8	0.490	0.537	0.317	0.348	136
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	39	24.2	23.8	0.233	0.255	0.162	0.178	137
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	141500	707.5	1	39	24.2	23.8	0.358	0.393	0.236	0.259	138

10.22. 5G NR Band n25 (40MHz 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	DFT-s-OFDM QPSK	Mode A	0	Right Touch	376500	1882.5	1	107	23.1	22.6	0.303	0.340	0.192	0.215	139
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	381000	1905.0	1	107	18.6	18.2	0.716	0.785	0.324	0.355	140
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	379000	1895.0	108	54	18.2	17.8	0.734	0.805	0.344	0.377	141
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	376500	1882.5	1	107	19.1	18.6	0.556	0.624	0.270	0.303	142

10.23. 5G NR Band n30 (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	DFT-s-OFDM QPSK	Mode A	0	Right Touch	462000	2310.0	1	25	24.0	23.6	0.314	0.344	0.179	0.196	143
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	462000	2310.0	25	12	19.3	18.9	0.729	0.799	0.268	0.294	144
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	462000	2310.0	25	12	18.4	18.0	0.834	0.914	0.401	0.440	145
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	462000	2310.0	25	12	18.2	18.0	0.765	0.801	0.350	0.366	146

10.24. 5G NR Band n41 (100MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	518598	2593.0	1	136	24.2	23.8	0.270	0.296	0.146	0.160	147
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	523296	2616.5	135	67	19.1	18.8	0.643	0.689	0.271	0.290	148
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Left Tilt	518598	2593.0	1	136	15.7	15.2	0.439	0.493	0.175	0.196	149
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518598	2593.0	135	67	16.9	16.5	0.515	0.565	0.251	0.275	150

10.25. 5G NR Band n66 (40MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	349000	1745.0	1	107	24.3	24.1	0.267	0.280	0.179	0.187	151
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	352000	1760.0	1	107	21.5	21.3	0.847	0.887	0.403	0.422	152
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	349000	1745.0	108	54	18.2	17.8	0.593	0.650	0.339	0.372	153
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	352000	1760.0	108	54	20.0	19.5	0.754	0.846	0.386	0.433	154

10.26. 5G NR Band n71 (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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	136100	680.5	1	52	25.7	25.3	0.152	0.167	0.117	0.128	155
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	136100	680.5	1	52	25.7	25.3	0.304	0.333	0.185	0.203	156
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	136100	680.5	1	52	24.2	23.8	0.356	0.390	0.232	0.254	157
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Front	136100	680.5	1	52	24.2	23.8	0.242	0.265	0.159	0.174	158

10.27. 5G NR Band n77 (Block A)(100MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	633332	3500.0	1	136	25.4	25.2	0.754	0.790	0.352	0.369	159
								135	67	25.4	25.1	0.546	0.585	0.248	0.266	
					Left Tilt	633332	3500.0	1	136	25.4	25.2	0.150	0.157	0.065	0.068	
								135	67	25.4	25.1	0.130	0.139	0.048	0.051	
					Right Touch	633332	3500.0	1	136	25.4	25.2	0.397	0.416	0.205	0.215	
								135	67	25.4	25.1	0.360	0.386	0.181	0.194	
					Right Tilt	633332	3500.0	1	136	25.4	25.2	0.221	0.231	0.086	0.090	
								135	67	25.4	25.1	0.209	0.224	0.076	0.081	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	633332	3500.0	1	136	20.7	20.6	0.690	0.706	0.249	0.255	
								135	67	20.7	20.5	0.539	0.564	0.236	0.247	
					Front	633332	3500.0	1	136	20.7	20.6	0.969	0.992	0.384	0.393	160
								135	67	20.7	20.5	0.561	0.587	0.216	0.226	
					Edge 2	633332	3500.0	1	136	20.7	20.6	0.328	0.336	0.131	0.134	
								135	67	20.7	20.5	0.318	0.333	0.129	0.135	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 3	633332	3500.0	1	136	20.7	20.6	0.561	0.574	0.156	0.160	
								135	67	20.7	20.5	0.522	0.547	0.149	0.156	
					Edge 4	633332	3500.0	1	136	20.7	20.6	0.617	0.631	0.243	0.249	
								135	67	20.7	20.5	0.514	0.538	0.214	0.224	

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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	633332	3500.0	1	136	16.9	16.3	0.422	0.485	0.157	0.180	161
								135	67	16.9	16.1	0.104	0.125	0.033	0.039	
					Left Tilt	633332	3500.0	1	136	16.9	16.3	0.242	0.278	0.091	0.105	
								135	67	16.9	16.1	0.084	0.101	0.031	0.037	
					Right Touch	633332	3500.0	1	136	16.9	16.3	0.412	0.473	0.134	0.154	
								135	67	16.9	16.1	0.340	0.409	0.120	0.144	
					Right Tilt	633332	3500.0	1	136	16.9	16.3	0.253	0.290	0.095	0.109	
								135	67	16.9	16.1	0.169	0.203	0.056	0.068	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	633332	3500.0	1	136	19.3	18.8	0.319	0.358	0.152	0.171	
								135	67	19.3	18.6	0.127	0.149	0.059	0.069	
					Front	633332	3500.0	1	136	19.3	16.9	0.468	0.813	0.165	0.287	162
								135	67	19.3	16.9	0.307	0.534	0.106	0.184	
					Edge 1	633332	3500.0	1	136	19.3	16.9	0.149	0.259	0.060	0.104	
								135	67	19.3	16.9	0.080	0.140	0.030	0.052	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	633332	3500.0	1	136	19.3	16.9	0.571	0.992	0.226	0.393	163
								135	67	19.3	16.9	0.525	0.912	0.093	0.162	

10.28. 5G NR Band n77 (Block A) Power Class 2 (100MHz Bandwidth)

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

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.

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 1-g SAR (W/kg)		
ANT1	Head	50.0%	26.00	199.05	100.0%	25.40	346.74	0.790	0.454	-42.59%

Conclusion:

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

10.29. 5G NR Band n77 (Block C)(100MHz 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	DFT-s-OFDM QPSK	Mode A	0	Left Touch	656000	3840.0	1	136	25.4	25.1	0.122	0.131	0.053	0.056	
								135	67	25.4	25.2	0.153	0.160	0.076	0.079	
					Left Tilt	656000	3840.0	1	136	25.4	25.1	0.060	0.064	0.027	0.029	
								135	67	25.4	25.2	0.086	0.090	0.044	0.046	
					Right Touch	656000	3840.0	1	136	25.4	25.1	0.098	0.105	0.042	0.045	
								135	67	25.4	25.2	0.272	0.285	0.124	0.130	164
					Right Tilt	656000	3840.0	1	136	25.4	25.1	0.055	0.059	0.016	0.017	
								135	67	25.4	25.2	0.168	0.176	0.061	0.064	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	656000	3840.0	1	136	20.7	20.5	0.358	0.375	0.130	0.136	
								135	67	20.7	20.6	0.473	0.484	0.174	0.178	
					Front	656000	3840.0	1	136	20.7	20.5	0.482	0.505	0.177	0.185	
								135	67	20.7	20.6	0.958	0.980	0.356	0.364	165
					Edge 2	656000	3840.0	1	136	20.7	20.5	0.128	0.134	0.043	0.045	
								135	67	20.7	20.6	0.050	0.051	0.014	0.014	
					Edge 3	656000	3840.0	1	136	20.7	20.5	0.493	0.516	0.210	0.220	
								135	67	20.7	20.6	0.253	0.259	0.104	0.106	
					Edge 4	656000	3840.0	1	136	20.7	20.5	0.383	0.401	0.115	0.120	
								135	67	20.7	20.6	0.163	0.167	0.056	0.057	
ANT4	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	656000	3840.0	1	136	16.9	16.4	0.137	0.154	0.047	0.053	
								135	67	16.9	16.3	0.323	0.371	0.119	0.137	
					Left Tilt	656000	3840.0	1	136	16.9	16.4	0.112	0.126	0.039	0.044	
								135	67	16.9	16.3	0.202	0.232	0.073	0.084	
					Right Touch	656000	3840.0	1	136	16.9	16.4	0.422	0.473	0.140	0.157	
								135	67	16.9	16.3	0.796	0.914	0.263	0.302	166
					Right Tilt	656000	3840.0	1	136	16.9	16.4	0.200	0.224	0.070	0.078	
								135	67	16.9	16.3	0.347	0.398	0.118	0.135	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	656000	3840.0	1	136	19.3	18.8	0.722	0.810	0.318	0.357	167
								135	67	19.3	18.8	0.590	0.662	0.259	0.291	
					Front	656000	3840.0	1	136	19.3	18.8	0.533	0.598	0.198	0.222	
								135	67	19.3	18.8	0.418	0.469	0.155	0.174	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	656000	3840.0	1	136	19.3	18.8	0.274	0.307	0.109	0.122	
								135	67	19.3	18.8	0.280	0.314	0.107	0.120	
					Edge 4	656000	3840.0	1	136	19.3	18.8	0.276	0.310	0.105	0.118	
								135	67	19.3	18.8	0.842	0.945	0.298	0.334	168

10.30. 5G NR Band n77 (Block C) Power Class 2 (100MHz Bandwidth)

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

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.

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 1-g SAR (W/kg)		
ANT1	Head	50.0%	26.00	199.05	100.0%	25.40	346.74	0.285	0.164	-42.59%

Conclusion:

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

10.31. 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.

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	
ANT2	Cell OFF	Head	802.11b	Mode A	0	Left Touch	1	2412	1.360	100.0%	17.25	15.97	0.870	1.168	0.328	0.440	80
							6	2437	1.360	100.0%	17.25	16.03	0.902	1.195	0.359	0.475	
						Left Tilt	6	2437	0.832	100.0%	17.25	16.03					
						Right Touch	6	2437	1.210	100.0%	17.25	16.03	0.429	0.568	0.177	0.234	
		Body & Hotspot	802.11b	Mode B	5	Right Tilt	6	2437	0.992	100.0%	17.25	16.03					81
						Rear	1	2412	0.970	100.0%	18.50	16.85	0.698	1.021	0.297	0.434	
							6	2437	1.750	100.0%	18.50	17.01	0.725	1.022	0.295	0.416	
						Front	6	2437	0.491	100.0%	18.50	17.01					
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.844	100.0%	18.50	17.01	0.562	0.792	0.186	0.262	
						Edge 2	6	2437	0.596	100.0%	18.50	17.01					
						Edge 4	6	2437	0.286	100.0%	18.50	17.01					
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	0.230	100.0%	21.50	20.59					82
						Left Tilt	6	2437	0.091	100.0%	21.50	20.59					
						Right Touch	6	2437	0.374	100.0%	21.50	20.59	0.249	0.307	0.129	0.159	
						Right Tilt	6	2437	0.056	100.0%	21.50	20.59					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.592	100.0%	19.50	18.48	0.380	0.481	0.180	0.228	83
							2	2417	1.290	100.0%	19.50	17.94	0.811	1.162	0.335	0.480	
						Front	6	2437	1.360	100.0%	19.50	18.48	0.764	0.966	0.363	0.459	
							9	2452	1.490	100.0%	19.50	18.10	0.775	1.070	0.328	0.453	
		Hotspot	802.11b	Mode B	5	Edge 2	6	2437	0.119	100.0%	19.50	18.48					
						Edge 3	6	2437	0.356	100.0%	19.50	18.48					
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	
ANT2	Cell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.325	100.0%	12.00	10.87					84
						Left Tilt	6	2437	0.352	100.0%	12.00	10.87	0.191	0.248	0.072	0.094	
						Right Touch	6	2437	0.239	100.0%	12.00	10.87					
						Right Tilt	6	2437	0.316	100.0%	12.00	10.87					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.518	100.0%	15.25	14.55	0.459	0.539	0.172	0.202	85
						Front	6	2437	0.314	100.0%	15.25	14.55					
						Edge 1	6	2437	0.644	100.0%	15.25	14.55	0.318	0.374	0.101	0.119	
						Edge 2	6	2437	0.290	100.0%	15.25	14.55					
		Hotspot	802.11b	Mode B	5	Edge 4	6	2437	0.061	100.0%	15.25	14.55					
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.120	100.0%	19.75	18.21					86
						Left Tilt	6	2437	0.054	100.0%	19.75	18.21					
						Right Touch	6	2437	0.212	100.0%	19.75	18.21	0.145	0.207	0.075	0.106	
						Right Tilt	6	2437	0.049	100.0%	19.75	18.21					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.103	100.0%	14.00	12.65					87
						Front	6	2437	0.420	100.0%	14.00	12.65	0.232	0.317	0.109	0.149	
						Edge 2	6	2437	0.037	100.0%	14.00	12.65					
						Edge 3	6	2437	0.158	100.0%	14.00	12.65	0.067	0.091	0.021	0.029	
		Hotspot	802.11b	Mode B	5												

10.32. 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	
ANT3	Cell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.286	97.8%	20.00	18.68	0.096	0.133	0.016	0.022	
							Left Tilt	54	5270	0.089	97.8%	20.00	18.68					
							Right Touch	54	5270	0.641	97.8%	20.00	18.68	0.294	0.407	0.120	0.166	88
							Right Tilt	54	5270	0.194	97.8%	20.00	18.68					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	58	5290	0.579	95.4%	14.75	13.17	0.313	0.472	0.096	0.145	
							Front	58	5290	1.450	95.4%	14.75	13.17	0.692	1.043	0.177	0.267	89
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 2	58	5290	0.116	95.4%	14.75	13.17					
							Edge 3	58	5290	0.320	95.4%	14.75	13.17					
						Edge 4	58	5290	0.027	95.4%	14.75	13.17						
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	
ANT3	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.263	95.4%	20.00	18.84					
							Left Tilt	122	5610	0.075	95.4%	20.00	18.84					
							Right Touch	122	5610	0.455	95.4%	20.00	18.84	0.248	0.339	0.094	0.129	90
							Right Tilt	122	5610	0.146	95.4%	20.00	18.84					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	1.130	95.4%	16.25	15.44	0.462	0.583	0.132	0.167	
							Front	122	5610	1.710	95.4%	16.25	15.44	0.815	1.029	0.230	0.290	
								138	5690	1.930	95.4%	16.25	15.40	0.924	1.178	0.264	0.336	91
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 2	122	5610	0.072	95.4%	16.25	15.44					
							Edge 3	122	5610	0.245	95.4%	16.25	15.44	0.123	0.155	0.038	0.048	
							Edge 4	122	5610	0.014	95.4%	16.25	15.44					
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	
ANT3	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.356	95.4%	20.00	18.29					
							Left Tilt	155	5775	0.131	95.4%	20.00	18.29					
							Right Touch	155	5775	0.656	95.4%	20.00	18.29	0.287	0.446	0.109	0.169	92
							Right Tilt	155	5775	0.362	95.4%	20.00	18.29	0.169	0.263	0.066	0.103	
			Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.240	95.4%	15.75	14.06	0.644	0.996	0.181	0.280	
							Front	155	5775	1.320	95.4%	15.75	14.06	0.679	1.050	0.202	0.312	93
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 2	155	5775	0.122	95.4%	15.75	14.06					
							Edge 3	155	5775	0.368	95.4%	15.75	14.06	0.132	0.204	0.042	0.065	
						Edge 4	155	5775	0.005	95.4%	15.75	14.06						
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	Cell OFF	U-NII-1	Head	802.11ac (VHT80)	Mode A	0	Left Touch	42	5210	0.427	95.4%	15.50	14.22	0.194	0.273	0.055	0.077	
							Left Tilt	42	5210	0.254	95.4%	15.50	14.22	0.113	0.159	0.031	0.044	
							Right Touch	42	5210	0.966	95.4%	15.50	14.22	0.796	1.120	0.179	0.252	94
							Right Tilt	42	5210	0.562	95.4%	15.50	14.22	0.285	0.401	0.075	0.106	
			Body & Hotspot	802.11n (HT40)	Mode B	5	Rear	38	5190	1.700	97.8%	16.50	15.16	0.678	0.944	0.197	0.274	
								46	5230	1.930	97.8%	17.50	16.32	0.807	1.083	0.228	0.306	95
							Front	46	5230	0.737	97.8%	17.50	16.32	0.305	0.409	0.093	0.125	
			Hotspot	802.11n (HT40)	Mode B	5	Edge 1	46	5230	0.263	97.8%	17.50	16.32					
							Edge 2	46	5230	0.008	97.8%	17.50	16.32					
							Edge 4	46	5230	1.120	97.8%	17.50	16.32	0.452	0.606	0.146	0.196	
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	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.428	95.4%	15.50	14.01					
							Left Tilt	122	5610	0.477	95.4%	15.50	14.01					
							Right Touch	122	5610	1.510	95.4%	15.50	14.01	0.768	1.134	0.175	0.258	96
							Right Tilt	122	5610	0.684	95.4%	15.50	14.01	0.341	0.504	0.076	0.112	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	2.170	95.4%	15.75	14.74	0.897	1.186	0.246	0.325	97
								138	5690	2.220	95.4%	15.75	14.26	0.802	1.184	0.190	0.281	
							Front	122	5610	0.445	95.4%	15.75	14.74	0.211	0.279	0.051	0.067	
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.354	95.4%	15.75	14.74					
							Edge 2	122	5610	0.198	95.4%	15.75	14.74					
							Edge 4	122	5610	0.331	95.4%	15.75	14.74					
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	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	1.210	95.4%	17.25	15.48	0.558	0.879	0.138	0.217	
							Left Tilt	155	5775	1.210	95.4%	17.25	15.48	0.596	0.939	0.149	0.235	
							Right Touch	155	5775	1.270	95.4%	17.25	15.48	0.651	1.025	0.147	0.232	
							Right Tilt	155	5775	2.080	95.4%	17.25	15.48	0.733	1.155	0.165	0.260	98
			Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	155	5775	2.310	95.4%	15.75	14.21	0.755	1.128	0.210	0.314	99
							Front	155	5775	0.366	95.4%	15.75	14.21					
							Edge 1	155	5775	0.408	95.4%	15.75	14.21	0.234	0.350	0.070	0.105	
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 2	155	5775	0.394	95.4%	15.75	14.21					
Edge 4	155	5775					0.261	95.4%	15.75	14.21								

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	
ANT3	Cell ON	U-NII-2A	Head	802.11ac (VHT80)	Mode A	0	Left Touch	58	5290	0.077	95.4%	15.25	13.38					
							Left Tilt	58	5290	0.039	95.4%	15.25	13.38					
							Right Touch	58	5290	0.106	95.4%	15.25	13.38	0.048	0.077	0.018	0.029	100
							Right Tilt	58	5290	0.098	95.4%	15.25	13.38					
		U-NII-1	Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.063	95.4%	8.00	6.72					
							Front	42	5210	0.248	95.4%	8.00	6.72	0.161	0.227	0.035	0.049	101
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 2	42	5210	0.005	95.4%	8.00	6.72					
							Edge 3	42	5210	0.036	95.4%	8.00	6.72					
							Edge 4	42	5210	0.004	95.4%	8.00	6.72					
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													
ANT3	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.104	95.4%	15.50	14.04					
							Left Tilt	122	5610	0.030	95.4%	15.50	14.04					
							Right Touch	122	5610	0.170	95.4%	15.50	14.04	0.076	0.111	0.027	0.040	102
							Right Tilt	122	5610	0.062	95.4%	15.50	14.04					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.234	95.4%	9.50	8.30					
							Front	122	5610	0.301	95.4%	9.50	8.30	0.162	0.224	0.043	0.059	103
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 2	122	5610	0.008	95.4%	9.50	8.30					
							Edge 3	122	5610	0.051	95.4%	9.50	8.30					
							Edge 4	122	5610	0.003	95.4%	9.50	8.30					
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													
ANT3	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.152	95.4%	15.25	14.03					
							Left Tilt	155	5775	0.038	95.4%	15.25	14.03					
							Right Touch	155	5775	0.208	95.4%	15.25	14.03	0.086	0.119	0.027	0.037	104
							Right Tilt	155	5775	0.046	95.4%	15.25	14.03					
			Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.411	95.4%	9.00	7.56	0.148	0.216	0.037	0.054	105
							Front	155	5775	0.262	95.4%	9.00	7.56					
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 2	155	5775	0.013	95.4%	9.00	7.56					
							Edge 3	155	5775	0.076	95.4%	9.00	7.56	0.024	0.035	0.007	0.010	
							Edge 4	155	5775	0.006	95.4%	9.00	7.56					
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	Cell ON	U-NII-1	Head	802.11ac (VHT80)	Mode A	0	Left Touch	42	5210	0.081	95.4%	7.75	6.48					
							Left Tilt	42	5210	0.050	95.4%	7.75	6.48					
							Right Touch	42	5210	0.188	95.4%	7.75	6.48	0.086	0.121	0.019	0.027	106
							Right Tilt	42	5210	0.105	95.4%	7.75	6.48					
			Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.643	95.4%	13.25	12.10	0.327	0.447	0.092	0.125	107
							Front	42	5210	0.296	95.4%	13.25	12.10					
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 1	42	5210	0.068	95.4%	13.25	12.10					
							Edge 2	42	5210	0.007	95.4%	13.25	12.10					
							Edge 4	42	5210	0.232	95.4%	13.25	12.10	0.101	0.138	0.031	0.042	
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	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.107	95.4%	7.75	6.21					
							Left Tilt	122	5610	0.103	95.4%	7.75	6.21					
							Right Touch	122	5610	0.110	95.4%	7.75	6.21	0.094	0.140	0.018	0.027	108
							Right Tilt	122	5610	0.115	95.4%	7.75	6.21	0.044	0.066	0.008	0.011	109
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.851	95.4%	11.50	10.23	0.319	0.448	0.083	0.117	109
							Front	122	5610	0.139	95.4%	11.50	10.23					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.118	95.4%	11.50	10.23					
							Edge 2	122	5610	0.048	95.4%	11.50	10.23					
							Edge 4	122	5610	0.235	95.4%	11.50	10.23	0.084	0.118	0.030	0.042	
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	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.204	95.4%	9.50	7.88	0.091	0.138	0.020	0.030	110
							Left Tilt	155	5775	0.190	95.4%	9.50	7.88					
							Right Touch	155	5775	0.070	95.4%	9.50	7.88					
							Right Tilt	155	5775	0.076	95.4%	9.50	7.88					
			Body & Hotspot	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.576	95.4%	11.50	9.84	0.273	0.419	0.065	0.100	111
							Front	155	5775	0.366	95.4%	11.50	9.84					
			Hotspot	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.096	95.4%	11.50	9.84					
							Edge 2	155	5775	0.103	95.4%	11.50	9.84	0.034	0.053	0.008	0.013	
							Edge 4	155	5775	0.043	95.4%	11.50	9.84					

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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 P _{low}	Head	GFSK	Mode A	0	Left Touch	39	2441	7.50	6.49	0.066	0.083	0.025	0.032		
					Left Tilt	39	2441	7.50	6.49	0.060	0.076	0.021	0.026		
					Right Touch	39	2441	7.50	6.49	0.074	0.093	0.033	0.042	112	
					Right Tilt	39	2441	7.50	6.49	0.067	0.085	0.025	0.032		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	7.00	5.78	0.063	0.083	0.025	0.033	113	
					Front	39	2441	7.00	5.78	0.028	0.037	0.009	0.012		
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	7.00	5.78	0.037	0.049	0.010	0.014		
					Edge 2	39	2441	7.00	5.78	0.022	0.028	0.009	0.012		
					Edge 4	39	2441	7.00	5.78	0.003	0.003	<0.01	<0.01		
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 P _{high}	Head	GFSK	Mode A	0	Left Touch	39	2441	10.00	8.35	0.112	0.164	0.111	0.162		
					Left Tilt	39	2441	10.00	8.73	0.121	0.162	0.045	0.060		
					Right Touch	39	2441	10.00	8.73	0.183	0.245	0.078	0.104	114	
					Right Tilt	39	2441	10.00	8.73	0.182	0.244	0.074	0.099		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	11.00	9.61	0.140	0.193	0.056	0.077		
					Front	39	2441	11.00	9.61	0.156	0.215	0.061	0.084	115	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	11.00	9.61	0.127	0.175	0.041	0.056		
					Edge 2	39	2441	11.00	9.61	0.085	0.117	0.039	0.054		
					Edge 4	39	2441	11.00	9.61	0.009	0.013	0.004	0.005		
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 P _{standalone}	Head	GFSK	Mode A	0	Left Touch	0	2402	16.50	15.17	0.841	1.142	0.310	0.421		
						39	2441	16.50	15.35	0.763	0.994	0.310	0.404		
						78	2480	16.50	15.27	0.886	1.176	0.352	0.467	116	
					Left Tilt	39	2441	16.50	15.35	0.465	0.606	0.174	0.227		
						Right Touch	39	2441	16.50	15.35	0.514	0.670	0.219	0.285	
						Right Tilt	39	2441	16.50	15.35	0.557	0.726	0.221	0.288	
	Body & Hotspot	GFSK	Mode B	5	Rear	0	2402	17.00	15.39	0.701	1.016	0.292	0.423		
						39	2441	17.00	15.61	0.643	0.886	0.247	0.340		
						78	2480	17.00	15.57	0.745	1.036	0.299	0.416	117	
					Front	39	2441	17.00	16.19	0.516	0.622	0.210	0.253		
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	17.00	16.19	0.518	0.624	0.165	0.199		
					Edge 2	39	2441	17.00	16.19	0.447	0.539	0.201	0.242		
					Edge 4	39	2441	17.00	16.19	0.036	0.043	0.016	0.019		

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 P _{low}	Head	GFSK	Mode A	0	Left Touch	39	2441	11.50	10.37	0.008	0.010	0.004	0.005	
					Left Tilt	39	2441	11.50	10.37	0.001	0.001	0.000	0.000	
					Right Touch	39	2441	11.50	10.37	0.016	0.021	0.005	0.007	118
					Right Tilt	39	2441	11.50	10.37	0.001	0.001	0.001	0.001	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	8.00	6.81	0.013	0.017	0.005	0.006	
					Front	39	2441	8.00	6.81	0.054	0.072	0.025	0.033	119
	Hotspot	GFSK	Mode B	5	Edge 2	39	2441	8.00	6.81	>0.01	>0.01	>0.01	>0.01	
					Edge 3	39	2441	8.00	6.81	0.006	0.008	0.010	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	
ANT3 P _{high}	Head	GFSK	Mode A	0	Left Touch	39	2441	18.50	17.34	0.110	0.144	0.058	0.075	
					Left Tilt	39	2441	18.50	17.34	0.068	0.088	0.036	0.046	
					Right Touch	39	2441	18.50	17.34	0.144	0.188	0.079	0.104	120
					Right Tilt	39	2441	18.50	17.34	0.041	0.053	0.022	0.029	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	12.00	10.92	0.057	0.073	0.026	0.034	
					Front	39	2441	12.00	10.92	0.189	0.242	0.089	0.114	121
	Hotspot	GFSK	Mode B	5	Edge 2	39	2441	12.00	10.92	0.017	0.022	0.007	0.009	
					Edge 3	39	2441	12.00	10.92	0.032	0.041	0.014	0.017	
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 P _{standalone}	Head	GFSK	Mode A	0	Left Touch	39	2441	20.00	18.39	0.121	0.175	0.070	0.101	
					Left Tilt	39	2441	20.00	18.39	0.058	0.084	0.030	0.043	
					Right Touch	39	2441	20.00	18.39	0.235	0.340	0.122	0.177	122
					Right Tilt	39	2441	20.00	18.39	0.036	0.052	0.020	0.029	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	19.00	17.07	0.307	0.479	0.134	0.209	
					Front	0	2402	19.00	17.01	0.658	1.040	0.328	0.519	
						39	2441	19.00	17.07	0.726	1.132	0.343	0.535	123
						78	2480	19.00	17.05	0.612	0.959	0.279	0.437	
	Hotspot	GFSK	Mode B	5	Edge 2	39	2441	19.00	17.07	0.053	0.083	0.027	0.042	
					Edge 3	39	2441	19.00	17.07	0.157	0.245	0.067	0.104	

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
850	LTE Band 5	Hotspot	Edge 4	Yes	0.832	0.741	1.12
1700	LTE Band 66	Head	Left Touch	Yes	1.120	1.090	1.03
1900	LTE Band 25	Head	Right Tilt	Yes	0.861	0.851	1.01
2300	LTE Band 30	Head	Right Tilt	Yes	0.900	0.835	1.08
2400	Wi-Fi 802.11b/g/n	Head	Left Touch	Yes	0.902	0.886	1.02
2500	LTE Band 7	Head	Left Touch	Yes	0.975	0.944	1.03
2600	LTE Band 41	Body & Hotspot	Front	Yes	0.845	0.794	1.06
3600	5G NR Band 77 (Block C)	Body & Hotspot	Front	Yes	0.958	0.917	1.04
5200	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	0.807	0.759	1.06
5500	Wi-Fi 802.11a/n/ac	Body & Hotspot	Front	Yes	0.924	0.915	1.01

Note(s):

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

12. Simultaneous Transmission Conditions

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

Sum of SAR

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

SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

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

Where:

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

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

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

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

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

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

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

Simultaneous transmission SAR measurement

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

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

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

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

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

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

Simultaneous transmission SAR Exclusion

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. Inspection of the SAR plots has shown that there is no overlap of hotspots and antennas are at least 114 mm apart. Using the guidance in KDB 248227 section 6.1, no evaluation of MIMO is required and SAR compliance for simultaneous transmission is determined separately for each individual antenna.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilizes 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	1	WWAN & 5G OFF (CELLULAR ANTENNAS OFF)	+ (ANT3) Wi-Fi 5 GHz SISO + (ANT2) Bluetooth (P _{High})
	2		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT2) Bluetooth (P _{High})
	3		+ Wi-Fi 5 GHz MIMO + (ANT2) Bluetooth (P _{High})
	4		+ (ANT3) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{High})
	5		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{High})
	6		+ Wi-Fi 5 GHz MIMO + (ANT3) Bluetooth (P _{High})
	7	WWAN & 5G ON (CELLULAR ANTENNAS ON)	+ (ANT2) Wi-Fi 2.4 GHz SISO
	8		+ (ANT3) Wi-Fi 2.4 GHz SISO
	9		+ Wi-Fi 2.4 GHz MIMO
	10		+ (ANT2) Bluetooth (P _{High})
	11		+ (ANT3) Bluetooth (P _{High})
	12		+ (ANT3) Wi-Fi 5 GHz SISO
	13		+ (ANT6) Wi-Fi 5 GHz SISO
	14		+ Wi-Fi 5 GHz MIMO
	15		+ (ANT3) Wi-Fi 5 GHz SISO + (ANT2) Bluetooth (P _{Low})
	16		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT2) Bluetooth (P _{Low})
	17		+ Wi-Fi 5 GHz MIMO + (ANT2) Bluetooth (P _{Low})
	18		+ (ANT3) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{Low})
	19		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{Low})
	20		+ Wi-Fi 5 GHz MIMO + (ANT3) 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 cannot transmit simultaneously.
4. Bluetooth P_{Low} is used with Wi-Fi and WWAN antennas are active.
5. Bluetooth P_{High} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
6. Bluetooth P_{standalone} is used with Wi-Fi and WWAN antennas are inactive.
7. Wi-Fi SISO mode SAR result can also represent for MIMO mode SAR and is used for MIMO mode simultaneous transmission analysis because antennas are not overlapping, and the MIMO mode maximum power is equal or less than SISO mode.

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		1	2	3	4	1+3	1+4	2+3	2+4
		Wi-Fi 5G ANT3	Wi-Fi 5G ANT6	BT(P _{high}) ANT2	BT(P _{high}) ANT3				
Head	Left Touch	0.133	0.879	0.164	0.144	0.297	0.277	1.043	1.023
	Left Tilt	0.133	0.939	0.162	0.088	0.295	0.221	1.101	1.027
	Right Touch	0.446	1.134	0.245	0.188	0.691	0.634	1.379	1.322
	Right Tilt	0.263	1.155	0.244	0.053	0.506	0.316	1.398	1.208
Body-worn & Hotspot	Rear	0.996	1.186	0.193	0.073	1.189	1.069	1.379	1.259
	Front	1.178	0.409	0.215	0.242	1.392	1.420	0.624	0.652
Hotspot	Edge 1		0.350	0.175		0.175	0.000	0.524	0.350
	Edge 2	0.204	0.350	0.117	0.022	0.321	0.226	0.467	0.371
	Edge 3	0.204			0.041	0.204	0.245	0.000	0.041
	Edge 4	0.204	0.606	0.013		0.217	0.204	0.619	0.606

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT1	Wi-Fi 2.4G ANT2	Wi-Fi 2.4G ANT3	BT(P _{high}) ANT2	BT(P _{high}) ANT3				
Head	Left Touch	1.146	0.248	0.207	0.164	0.144	1.394	1.353	1.310	1.290
	Left Tilt	0.409	0.248	0.207	0.162	0.088	0.657	0.616	0.572	0.498
	Right Touch	0.642	0.248	0.207	0.245	0.188	0.890	0.849	0.887	0.830
	Right Tilt	0.423	0.248	0.207	0.244	0.053	0.671	0.630	0.667	0.477
Body-worn & Hptspot	Rear	0.993	0.539	0.091	0.193	0.073	1.532	1.084	1.186	1.066
	Front	0.995	0.374	0.225	0.215	0.242	1.369	1.220	1.210	1.238
Hotspot	Edge 1		0.374		0.175		0.374	0.000	0.175	0.000
	Edge 2	0.759	0.374	0.091	0.117	0.022	1.133	0.850	0.876	0.781
	Edge 3	0.897		0.091		0.041	0.897	0.988	0.897	0.938
	Edge 4	0.975	0.374		0.013		1.349	0.975	0.988	0.975
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT1	Wi-Fi 5G ANT3	Wi-Fi 5G ANT6	BT(P _{Low}) ANT2	BT(P _{Low}) ANT3				
Head	Left Touch	1.146	0.119	0.138	0.083	0.010	1.349	1.276	1.368	1.295
	Left Tilt	0.409	0.119	0.066	0.076	0.001	0.605	0.530	0.551	0.477
	Right Touch	0.642	0.119	0.140	0.093	0.021	0.855	0.782	0.876	0.803
	Right Tilt	0.423	0.119	0.066	0.085	0.001	0.627	0.544	0.574	0.491
Body-worn & Hptspot	Rear	0.993	0.216	0.448	0.083	0.017	1.292	1.226	1.524	1.458
	Front	0.995	0.227	0.053	0.037	0.072	1.259	1.293	1.085	1.120
Hotspot	Edge 1			0.053	0.049		0.049	0.000	0.102	0.053
	Edge 2	0.759	0.035	0.053	0.028	0.010	0.822	0.804	0.840	0.821
	Edge 3	0.897	0.035			0.008	0.932	0.940	0.897	0.905
	Edge 4	0.975	0.035	0.138	0.003		1.013	1.010	1.116	1.113

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT2	Wi-Fi 2.4G ANT2	Wi-Fi 2.4G ANT3	BT(P _{high}) ANT2	BT(P _{high}) ANT3				
Head	Left Touch	1.094	0.248	0.207	0.164	0.144	1.342	1.301	1.258	1.238
	Left Tilt	1.029	0.248	0.207	0.162	0.088	1.277	1.236	1.191	1.117
	Right Touch	1.074	0.248	0.207	0.245	0.188	1.322	1.281	1.319	1.262
	Right Tilt	1.072	0.248	0.207	0.244	0.053	1.320	1.279	1.316	1.126
Body-worn & Hptspot	Rear	0.893	0.539	0.091	0.193	0.073	1.432	0.984	1.086	0.967
	Front	0.874	0.374	0.225	0.215	0.242	1.248	1.099	1.088	1.116
Hotspot	Edge 1	0.659	0.374		0.175		1.033	0.659	0.834	0.659
	Edge 2	0.513	0.374	0.091	0.117	0.022	0.887	0.604	0.630	0.535
	Edge 3			0.091		0.041	0.000	0.091	0.000	0.041
	Edge 4	0.749	0.374		0.013		1.123	0.749	0.762	0.749
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT2	Wi-Fi 5G ANT3	Wi-Fi 5G ANT6	BT(P _{Low}) ANT2	BT(P _{Low}) ANT3				
Head	Left Touch	1.094	0.119	0.138	0.083	0.010	1.297	1.224	1.316	1.243
	Left Tilt	1.029	0.119	0.066	0.076	0.001	1.224	1.150	1.170	1.096
	Right Touch	1.074	0.119	0.140	0.093	0.021	1.286	1.214	1.307	1.235
	Right Tilt	1.072	0.119	0.066	0.085	0.001	1.276	1.193	1.222	1.139
Body-worn & Hptspot	Rear	0.893	0.216	0.448	0.083	0.017	1.192	1.127	1.424	1.358
	Front	0.874	0.227	0.053	0.037	0.072	1.137	1.172	0.963	0.998
Hotspot	Edge 1	0.659		0.053	0.049		0.708	0.659	0.761	0.712
	Edge 2	0.513	0.035	0.053	0.028	0.010	0.577	0.558	0.680	0.661
	Edge 3		0.035			0.008	0.035	0.043	0.000	0.008
	Edge 4	0.749	0.035	0.138	0.003		0.788	0.784	0.890	0.887

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G ANT2	Wi-Fi 2.4G ANT3	BT(P _{high}) ANT2	BT(P _{high}) ANT3				
Head	Left Touch	0.485	0.248	0.207	0.164	0.144	0.733	0.692	0.648	0.628
	Left Tilt	0.278	0.248	0.207	0.162	0.088	0.526	0.485	0.440	0.366
	Right Touch	1.093	0.248	0.207	0.245	0.188	1.341	1.300	1.338	1.281
	Right Tilt	0.453	0.248	0.207	0.244	0.053	0.701	0.660	0.697	0.506
Body-worn & Hptspot	Rear	0.810	0.539	0.091	0.193	0.073	1.349	0.901	1.003	0.883
	Front	0.813	0.374	0.225	0.215	0.242	1.187	1.038	1.028	1.056
Hotspot	Edge 1	0.314	0.374		0.175		0.688	0.314	0.489	0.314
	Edge 2		0.374	0.091	0.117	0.022	0.374	0.091	0.117	0.022
	Edge 3			0.091		0.041	0.000	0.091	0.000	0.041
	Edge 4	0.992	0.374		0.013		1.366	0.992	1.005	0.992
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT4	Wi-Fi 5G ANT3	Wi-Fi 5G ANT6	BT(P _{Low}) ANT2	BT(P _{Low}) ANT3				
Head	Left Touch	0.485	0.119	0.138	0.083	0.010	0.687	0.614	0.706	0.633
	Left Tilt	0.278	0.119	0.066	0.076	0.001	0.473	0.399	0.419	0.345
	Right Touch	1.093	0.119	0.140	0.093	0.021	1.306	1.233	1.327	1.254
	Right Tilt	0.453	0.119	0.066	0.085	0.001	0.657	0.573	0.603	0.520
Body-worn & Hptspot	Rear	0.810	0.216	0.448	0.083	0.017	1.109	1.043	1.341	1.275
	Front	0.813	0.227	0.053	0.037	0.072	1.077	1.111	0.903	0.938
Hotspot	Edge 1	0.314		0.053	0.049		0.363	0.314	0.416	0.367
	Edge 2		0.035	0.053	0.028	0.010	0.064	0.045	0.081	0.063
	Edge 3		0.035			0.008	0.035	0.043	0.000	0.008
	Edge 4	0.992	0.035	0.138	0.003		1.031	1.027	1.134	1.130

Appendixes

Refer to separated files for the following appendixes.

Appendix A: SAR Setup Photos

Appendix B: SAR System Check Plots

Appendix C: SAR Highest Test Plots

Appendix D: SAR Tissue Ingredients

Appendix E: SAR Probe Certificates

Appendix F: SAR Dipole Certificates

Appendix G: LTE Down-Link Carrier Aggregation

Appendix H: Body Detect Validation

Appendix I: Wi-Fi Time-Averaged SAR(TAS)

END OF REPORT