



SAR EVALUATION REPORT

PERMISSIVE CHANGE

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

For
Radio Module
(Tested inside of Panasonic Tablet PC FZ-G2)

FCC ID: ACJ9TGWW18C

Model Name: WW18A

Report Number: 13489136H-A-R1
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Prepared for
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CERTIFICATE 5107.02

- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
- There is no testing item of "Non-accreditation".

Revision History

Rev.	Date	Revisions	Revised By
-	4/14/2021	Initial Issue	T. Shimada
1	5/28/2021	Section 5: Modified Measurement Uncertainty	T. Shimada
1	5/28/2021	Clause 6.2: Modified the sentence; Simultaneous transmission with WL20B. ↓ Simultaneous transmission with WLAN transceiver module FCC ID: ACJ9TGWL20B model WL20B.	T. Shimada
1	5/28/2021	Clause 7.1: Added table of SAR Test Exclusion Calculations for Laptop mode	T. Shimada
1	5/28/2021	Clause 7.2: Added column of Laptop mode	T. Shimada
1	5/28/2021	Clause 7.2: Modified Note *1	T. Shimada
1	5/28/2021	Section 12: Modified Notes of Simultaneous Transmission Conditions	T. Shimada

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1. Attestation of Test Results

Applicant Name	PANASONIC CORPORATION OF NORTH AMERICA
FCC ID	ACJ9TGWW18C
Model Name	WW18A
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013
Exposure Category	SAR Limits (W/Kg)
	Peak spatial-average (1g of tissue)
General population / Uncontrolled exposure	1.6
RF Exposure Conditions	Equipment Class - Highest Reported SAR (W/kg)
	WWAN
Standalone	1.21
Simultaneous TX	1.57 W/kg (refer to Section 12 of this report.) (The highest SAR across exposure conditions)
Date Tested	2/4/2021 to 3/19/2021
Test Results	Pass

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

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Japan, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Japan, Inc. will constitute fraud and shall nullify the document. This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body. This report is written to support regulatory compliance of the applicable standards stated above.

Approved & Released By: 	Prepared By: 
Takayuki Shimada Leader	Yutaka Yoshida Engineer

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:

- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 SAR test for 3G devices v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 616217 D04 SAR for laptop and tablets v01r02

Additional Guidance: TCB workshop

- TCB workshop

3. Facilities and Accreditation

*Shielded room for SAR testings

The test sites and measurement facilities used to collect data are located at 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN.

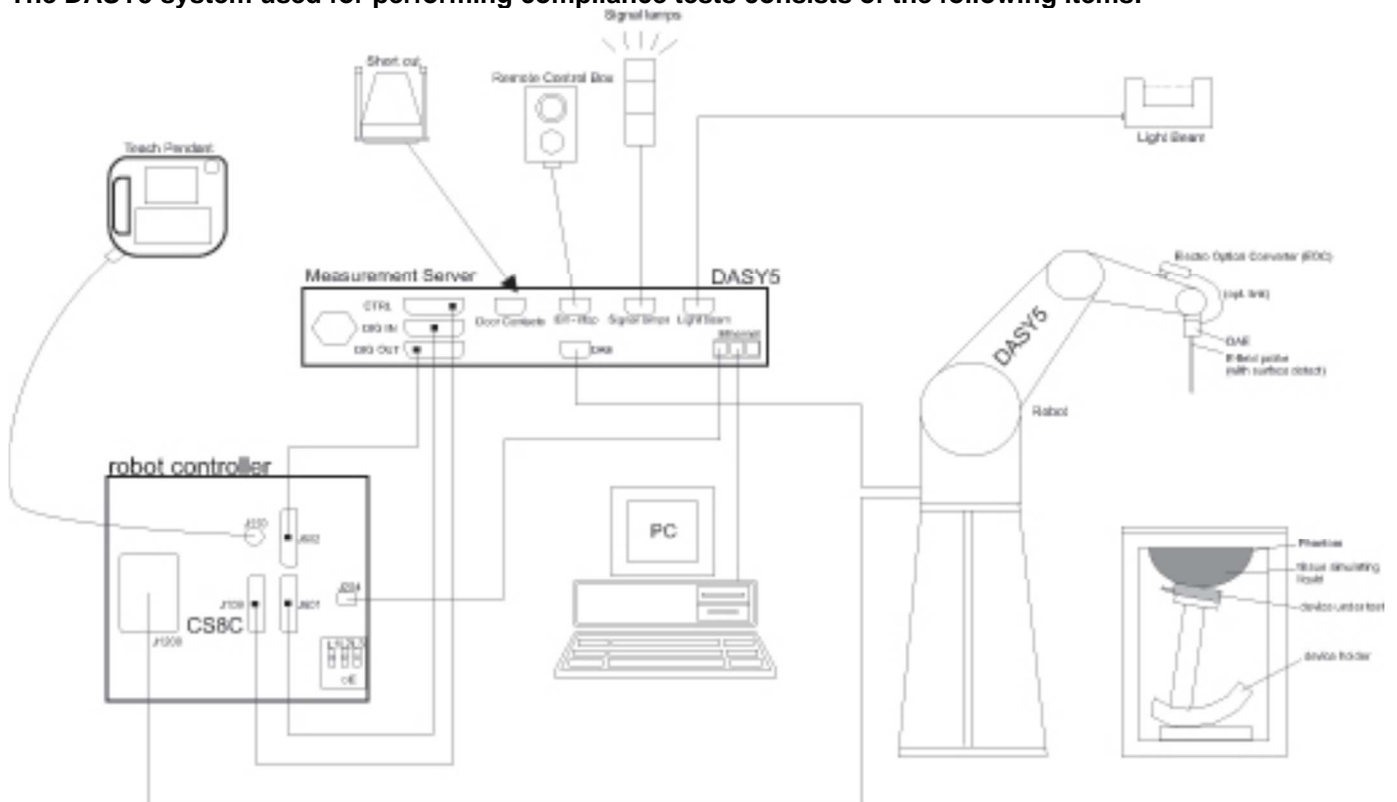
*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 199967

ISED Lab Company Number: 2973C / CAB identifier: JP0002

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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

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

Step 5: Z-Scan (FCC only)

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

4.3. Test Equipment

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

Dielectric Property Measurements

Test Name	Local Id	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
SAR	SSDA-06	Dipole Antenna	Schmid&Partner Engineering AG	D1750V2	1089	2019/03/12	24
SAR	SSDA-08	Dipole Antenna	Schmid&Partner Engineering AG	D1900V2	5d169	2019/03/12	24
SAR	MDA-19	Dipole Antenna	Schmid&Partner Engineering AG	D2600V2	1030	2019/03/14	24
SAR	MDA-23	Dipole Antenna	Schmid & Partner Engineering AG	D3500V2	1052	2019/12/11	24
SAR	MDA-20	Dipole Antenna	Schmid&Partner Engineering AG	D750V3	1058	2018/05/18	36
SAR	SSDA-04	Dipole Antenna	Schmid&Partner Engineering AG	D835V2	4d149	2019/03/13	24
SAR	COTS-MSAR-03	Dasy5	Schmid&Partner Engineering AG	DASY5	-	Pre-check	-
SAR	MMBBL600-6000	Body Simulating Liquid	Schmid & Partner Engineering AG	MBBL600-6000	SL AAM U16 BC	Pre-check	-
SAR	MMSL1900	Tissue simulation liquid (1900MHz,body)	Schmid&Partner Engineering AG	SL AAM 190 AA	-	Pre-check	-
SAR	MNA-03	Vector Reflectometer	COPPER MOUNTAIN TECHNOLOGIES	PLANAR R140	30913	2020/04/22	12
SAR	MDPK-03	Dielectric assessment kit	Schmid&Partner Engineering AG	DAK-3.5	0008	2020/04/28	12
SAR	MOS-37	Digital thermometer	LKM electronic	DTM3000	-	2020/07/10	12
SAR	COTS-MSAR-04	Dielectric assessment software	Schmid&Partner Engineering AG	DAK	-	Pre-check	-
SAR	MDAE-02	Data Acquisition Electronics	Schmid&Partner Engineering AG	DAE4	1369	2020/05/26	12
SAR	MPB-08	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	3917	2020/05/29	12
SAR	MPF-04	2mm Oval Flat Phantom	Schmid&Partner Engineering AG	QDOVA001BB	1207	2020/05/21	12
SAR	MDH-03	Device holder	Schmid&Partner Engineering AG	Mounting device for transmitter	-	2020/11/27	12
SAR	MOS-31	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3101	2020/07/10	12
SAR	MRBT-04	SAR robot	Schmid&Partner Engineering AG	TX60 Lspeag	F13/5PPLA1/A/01	2020/04/26	12
SAR	MDAE-01	Data Acquisition Electronics	Schmid&Partner Engineering AG	DAE4	509	2020/07/08	12
SAR	MPB-07	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	3825	2020/07/16	12
SAR	MPF-02	2mm Oval Flat Phantom	Schmid&Partner Engineering AG	QDOVA001BB	1045	2020/05/21	12
SAR	MDH-01	Device holder	Schmid&Partner Engineering AG	Mounting device for transmitter	-	2020/11/27	12
Power/SAR	MOS-33	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	2020/07/10	12
SAR	MRBT-02	SAR robot	Schmid&Partner Engineering AG	TX60 Lspeag	F10/5E3LA1/A/01	2020/04/26	12
SAR	MPM-15	Power Meter	Keysight Technologies Inc	N1914A	MY53060017	2020/06/10	12
SAR	MPSE-20	Power sensor	Keysight Technologies Inc	N8482H	MY53050001	2020/06/10	12
SAR	MRFA-24	Pre Amplifier	R&K	R&K CGA020M602-2633R	B30550	2020/06/10	12
SAR	MSG-10	Signal Generator	Keysight Technologies Inc	N5181A	MY47421098	2020/11/17	12
SAR	MAT-78	Attenuator	Telegartner	J01156A0011	42294119	Pre-check	-
SAR	MPSE-24	Power sensor	Anritsu Corporation	MA24106A	1026164	2020/08/19	12
SAR	MPSE-25	Power sensor	Anritsu Corporation	MA24106A	1031504	2020/08/19	12
SAR	COTS-MPSE-02	Software for MA24106A	Anritsu Corporation	Anritsu PowerXpert	-	Pre-check	-
SAR	MHDC-21	Dual Directional Coupler	Keysight Technologies Inc	778D	MY52180243	Pre-check	-
SAR	MHDC-12	Dual Directional Coupler	Hewlett Packard	772D	2839A0016	Pre-check	-
SAR	MDA-24	Dipole Antenna	Schmid & Partner Engineering AG	D3700V2	1078	2020/08/05	12
Power/SAR	MURC-10	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	165750	2020/07/31	12
SAR	MURC-08	Radio Communication Analyzer	Anritsu Corporation	MT8821C	6201547850	Pre-check	-

The expiration date of the calibration is the end of the expired month. All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

6. Device Under Test (DUT) Information

6.1. DUT Description

Radio Module (Tested inside of Panasonic Tablet PC FZ-G2) Model: WW18A	
Operating Configuration(s)	<ul style="list-style-type: none"> Tablet mode and Laptop mode
Exposure Condition(s)	<ul style="list-style-type: none"> The device is used in close proximity to the body. Specific details of the required test positions are provided in Section 6.7. Power Reduction by Proximity Sensing and 7.2. Required Test Configurations.
Accessory	<ul style="list-style-type: none"> None

6.2. Wireless Technologies

Wireless Mode and Frequency Bands	<ul style="list-style-type: none"> WCDMA Band 2: 1850 - 1910 MHz WCDMA Band 4: 1710 - 1755 MHz WCDMA Band 5: 824 - 849 MHz LTE Band 2: 1850 - 1910 MHz LTE Band 4: 1710 - 1755 MHz LTE Band 5: 824 - 849 MHz LTE Band 7: 2500 - 2570 MHz LTE Band 12: 699 - 716 MHz LTE Band 13: 777 - 787 MHz LTE Band 14: 788 - 798 MHz LTE Band 26: 814 - 849 MHz LTE Band 41: 2496 - 2690 MHz LTE Band 48: 3550 - 3700 MHz LTE Band 66: 1710 - 1780 MHz <p>Simultaneous transmission with WLAN transceiver module FCC ID: ACJ9TGWL20B model WL20B.</p> <p>Wireless Module(Tested inside of Panasonic Tablet PC FZ-G2) Model: WL20B</p> <ul style="list-style-type: none"> 802.11a/b/g/n/ac/ax: 2412 - 2472 MHz, b / g / HT20 / HT40 / HE20 / HE40 5150 - 5250 MHz, a / HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HE20 / HE40 / HE80 / HE160 5250 - 5350 MHz, a / HT20 / HT40 / VHT20 / VHT40 / VHT80 / HE20 / HE40 / HE80 5500 - 5720 MHz, a / HT20 / HT40 / VHT20 / VHT40 / VHT80 / VHT160 / HE20 / HE40 / HE80 / HE160 5725 - 5850 MHz, a / HT20 / HT40 / VHT20 / VHT40 / VHT80 / HE20 / HE40 / HE80 Bluetooth: 2402 - 2480 MHz
Duty Cycle	<ul style="list-style-type: none"> WCDMA: 100%, LTE(FDD): 100%, LTE(TDD): 63.3%

Antenna Type and Gain	<ul style="list-style-type: none">• WWAN Main TX/RX Antenna Type: Monopole Gain:<ul style="list-style-type: none">-1.23 dBi max 699-716MHz (Band 12)-0.68 dBi max 777-798MHz (Band 13,14)0.00 dBi max 814-849MHz (Band 5,26)2.30 dBi max 1710-1780MHz (Band 4,66)2.75 dBi max 1850-1915MHz (Band 2)0.96 dBi max 2500-2570MHz (Band 7)1.55 dBi max 2496-2690MHz (Band 41)2.38 dBi max 3550-3700MHz (Band 48) • WWAN Aux RX Antenna (RX only) Type: Monopole • WLAN #1 Main TX/RX Antenna: Type: PIFA Gain:<ul style="list-style-type: none">1.41 dBi max 2.4GHz-2.75 dBi max 5.150-5.350GHz-0.81 dBi max 5.470-5.725GHz-0.76 dBi max 5.725-5.850GHz • WLAN #2 and Bluetooth Aux TX/RX Antenna: Type: PIFA Gain:<ul style="list-style-type: none">-1.94 dBi max 2.4GHz2.00 dBi max 5.150-5.350GHz1.69 dBi max 5.470-5.725GHz2.46 dBi max 5.725-5.850GHz
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6.3. Hotspot (Wireless Router) Exposure Condition

N/A

6.4. General LTE SAR Test and Reporting Considerations

Item	Description						
Identify the high, middle and low (H, M, L) channel numbers and channel frequencies for each LTE bandwidth and frequency band	Band 2	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	19184/ 1908.4	19192/ 1909.2
	Band 4	Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20384/ 1753.4	20392/ 1754.2
	Band 5	Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	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	Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3
	Band 13	Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		
Band 14	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low							
Mid			23330/ 793				
High							

General LTE SAR Test and Reporting Considerations (Continued)

Item	Description																			
Identify the high, middle and low (H, M, L) channel numbers and channel frequencies for each LTE bandwidth and frequency band	Band 26	Channel Bandwidth																		
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz													
	Low		26765/ 821.5	26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7													
	Mid		26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5													
	High		26965/ 841.5	26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3													
	Band 41	Channel Bandwidth																		
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz													
	Low	39750/ 2506	39725/ 2503.5	39700/ 2501	39675/ 2498.5															
	Low-Mid	40185/ 2549.5	40173/ 2548.3	40160/ 2547.0	40148/ 2545.8															
	Mid	40620/ 2593	40620/ 2593	40620/ 2593	40620/ 2593															
	Mid-High	41055/ 2636.5	41068/ 2637.8	41080/ 2639.0	41093/ 2640.3															
	High	41490/ 2680	41515/ 2682.5	41540/ 2685	41565/ 2687.5															
	Band 48	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															
	Low-Mid	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																		
		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														
Descriptions of the LTE transmitter and antenna implementation, and identify if the transmitter operates independently of the other wireless transmitters in the device; i.e., whether the LTE hardware, components and/or antenna(s) are shared with other transmitters.	A single antenna (Main) is used for LTE and other wireless modes (WCDMA) for both transmit and receive.																			
Identify the voice and data transmission requirements for all LTE operating modes and exposure conditions, for standalone and simultaneous transmission, with respect to the required head and body test configurations, antenna locations, handset flip or slide cover positions, antenna diversity requirements, etc.	Data Only Device Exposure Conditions: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Proximity Sensor</th> <th>Positions of the host device</th> <th>Distance from the phantom</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Disabled (Full Power)</td> <td>Edge1, Rear tilt(Edge1 side)</td> <td>0 mm</td> </tr> <tr> <td>Edge4</td> <td>19 mm</td> </tr> <tr> <td>Rear, Rear tilt(Edge4 side)</td> <td>9 mm</td> </tr> <tr> <td>Enabled (Reduced Power)</td> <td>Edge4, Rear, Rear(Edge 4 side)</td> <td>0 mm</td> </tr> </tbody> </table>							Proximity Sensor	Positions of the host device	Distance from the phantom	Disabled (Full Power)	Edge1, Rear tilt(Edge1 side)	0 mm	Edge4	19 mm	Rear, Rear tilt(Edge4 side)	9 mm	Enabled (Reduced Power)	Edge4, Rear, Rear(Edge 4 side)	0 mm
Proximity Sensor	Positions of the host device	Distance from the phantom																		
Disabled (Full Power)	Edge1, Rear tilt(Edge1 side)	0 mm																		
	Edge4	19 mm																		
	Rear, Rear tilt(Edge4 side)	9 mm																		
Enabled (Reduced Power)	Edge4, Rear, Rear(Edge 4 side)	0 mm																		

General LTE SAR Test and Reporting Considerations (Continued)

Item	Description																																																						
<p>Identify if Maximum Power Reduction (MPR) is implemented as an optional or permanent feature, i.e., built-in by design:</p> <p>MPR may be considered during SAR testing only when the maximum output power is permanently limited by the MPR implemented within the device, according to the RB (resource block) configurations specified in 3GPP/LTE standards.</p> <p>Regardless of network requirements, only those RB configurations allowed (see 3GPP standards) for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.</p> <p>A-MPR (additional MPR) must be disabled during SAR testing.</p>	<p style="text-align: center;">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>16 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 3</td> </tr> </tbody> </table> <p>MPR Built-in by design</p> <p>The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values.</p> <p>A-MPR (additional MPR) was disabled during SAR testing</p>	Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																
<p>When power reduction is required for one or more LTE modes to satisfy SAR compliance for simultaneous transmission or other equipment certification and operating requirements, maximum average conducted output power measurement results for each power reduction mode applicable to the simultaneous voice/data transmission configurations for such wireless configurations and frequency bands are required.</p>	<p>Yes. A proximity sensor for WWAN power reduction is implemented in the device to address RF exposure compliance when the cellular antenna is positioned close to the user's body or other objects.</p>																																																						
<p>Carrier Aggregation</p>	<p>This module has only downlink carrier aggregation function. (CA configurations and bandwidth combination sets are described in Section 6.6)</p> <p>According with KDB941225D05A, KDB inquiry and any other SAR measurement is not needed in below conditions.</p> <p># Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.</p>																																																						

6.5. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices v02r02, 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	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
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	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$	-	-	-	-	-

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

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

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$ seconds

Note(s):

This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% duty cycle and Special Subframe 7.

6.6. LTE Carrier Aggregation

Table 5.6A.1-1: E-UTRA CA configurations and bandwidth combination sets defined for intra-band contiguous CA

E-UTRA CA configuration	E-UTRA CA configuration / Bandwidth combination set					
	Component carriers in order of increasing carrier frequency				Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2C	5	20			40	0
	10	15, 20				
	15	10, 15, 20				
	20	5, 10, 15, 20				
CA_7B	15	5			20	0
CA_7C	15	15			40	0
	20	20				
	10	20			40	1
	15	15, 20				
	20	10, 15, 20			40	2
	15	10, 15				
CA_41C	10	20			40	0
	15	15, 20				
	20	10, 15, 20				
	5, 10	20			40	1
	15	15, 20				
	20	5, 10, 15, 20			40	2
	10	15, 20				
	15	10, 15, 20				
	20	10, 15, 20			40	3
	10	20				
20	20					
CA_41D	10	20	15		60	0
	10	15, 20	20			
	15	20	10, 15			
	15	10, 15, 20	20			
	20	15, 20	10			
	20	10, 15, 20	15, 20			
CA_66B	5	5, 10, 15			20	0
	10	5, 10				
	15	5				
CA_66C	5	20			40	0
	10	15, 20				
	15	10, 15, 20				
	20	5, 10, 15, 20				
CA_5B	5, 10	10			20	0
	10	5				

Table 5.6A.1-3: E-UTRA CA configurations and bandwidth combination sets defined for non-contiguous intra-band CA (with two sub-blocks)

E-UTRA CA configuration / Bandwidth combination set						
E-UTRACA configuration	Component carriers in order of increasing carrier frequency				Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2A-2A	5, 10, 15, 20	5, 10, 15, 20			40	0
CA_4A-4A	5, 10, 15, 20	5, 10, 15, 20			40	0
	5, 10	5, 10			20	1
CA_7A-7A	5	15			40	0
	10	10, 15				
	15	15, 20				
	20	20				
CA_66A-66A	5, 10, 15, 20	5, 10, 15, 20			40	0
CA_66A-66B	5, 10, 15, 20	See CA_66B Bandwidth Combination Set 0 in Table 5.6A.1-1			40	0
	See CA_66B Bandwidth Combination Set 0 in Table 5.6A.1-1		5, 10, 15, 20			
CA_66A-66C	5, 10, 15, 20	See CA_66C Bandwidth Combination Set 0 in Table 5.6A.1-1			60	0
	See CA_66C Bandwidth Combination Set 0 in Table 5.6A.1-1		5, 10, 15, 20			

Table 5.6A.1-2: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA (two bands)

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	4			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	4			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
4			Yes	Yes	Yes	Yes			
CA_2A-5A	2			Yes	Yes	Yes	Yes	30	0
	5			Yes	Yes				
	2			Yes	Yes			20	1
5			Yes	Yes					
CA_2A-2A-5A	2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	5			Yes	Yes				
CA_2A-7A	2			Yes	Yes	Yes	Yes	40	0
	7			Yes	Yes	Yes	Yes		
CA_2A-12A	2			Yes	Yes	Yes	Yes	30	0
	12			Yes	Yes				
	2			Yes	Yes	Yes	Yes	30	1
	12	Yes		Yes	Yes				
	2			Yes	Yes			20	2
12			Yes	Yes					
CA_2A-2A-12A	2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	12			Yes	Yes				
CA_2A-13A	2			Yes	Yes	Yes	Yes	30	0
	13				Yes				
	2			Yes	Yes			20	1
13				Yes					
CA_2A-2A-13A	2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	13				Yes				
CA_2A-29A	2			Yes	Yes			20	0
	29	Yes		Yes	Yes				
	2			Yes	Yes			20	1
	29			Yes	Yes				
	2			Yes	Yes	Yes	Yes	30	2
29			Yes	Yes					
CA_2A-46A	2			Yes	Yes	Yes	Yes	40	0
	46						Yes		
CA_4A-5A	4			Yes	Yes			20	0
	5			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	1
	5			Yes	Yes				
CA_4A-4A-5A	4	See CA_4A-4A Bandwidth Combination Set 0 in table 5.6A.1-3						50	0
	5			Yes	Yes				

Continued

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_4A-7A	4			Yes	Yes			30	0
	7			Yes	Yes	Yes	Yes		
	4			Yes	Yes	Yes	Yes	40	1
	7			Yes	Yes	Yes	Yes		
CA_4A-12A	4	Yes	Yes	Yes	Yes			20	0
	12			Yes	Yes				
	4	Yes	Yes	Yes	Yes	Yes	Yes	30	1
	12			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	2
	12		Yes	Yes	Yes				
	4			Yes	Yes			20	3
	12			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	4
	12			Yes	Yes				
	4			Yes	Yes	Yes		20	5
12			Yes						
CA_4A-4A-12A	4	See CA_4A-4A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	12			Yes	Yes				
CA_4A-13A	4			Yes	Yes	Yes	Yes	30	0
	13				Yes				
	4			Yes	Yes			20	1
	13				Yes				
CA_4A-4A-13A	4	See CA_4A-4A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	13				Yes				
CA_4A-29A	4			Yes	Yes			20	0
	29		Yes	Yes	Yes				
	4			Yes	Yes			20	1
	29			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	2
	29			Yes	Yes				
CA_4A-46A	4			Yes	Yes	Yes	Yes	40	0
	46						Yes		
CA_7A-12A	7			Yes	Yes	Yes	Yes	30	0
	12			Yes	Yes				
CA_2A-7A-7A	2			Yes	Yes	Yes	Yes	60	0
	7	See the CA_7A-7A Bandwidth combination set 1 in Table 5.6A.1-3							
CA_2A-66A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	66			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	66			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	66			Yes	Yes	Yes	Yes		
CA_2A-66B	2			Yes	Yes	Yes	Yes	40	0
	66	See CA_66B Bandwidth Combination Set 0 in Table 5.6A.1-1							
CA_2A-66C	2			Yes	Yes	Yes	Yes	60	0
	66	See CA_66C Bandwidth Combination Set 0 in Table 5.6A.1-1							
CA_2A-66A-66A	2			Yes	Yes	Yes	Yes	60	0
	66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3							

Continued

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_4A-7A-7A	4			Yes	Yes	Yes	Yes	60	0
	7	See the CA_7A-7A Bandwidth combination set 1 in Table 5.6A.1-3							
CA_5A-66A	5			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_5A-66A-66A	5			Yes	Yes			50	0
	66	See CA_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3							
CA_5A-66C	5			Yes	Yes			50	0
	66	See CA_66C Bandwidth combination set 0 in Table 5.6A.1-1							
CA_12A-66A	12			Yes	Yes			20	0
	66	Yes	Yes	Yes	Yes				
	12			Yes	Yes			30	1
	66	Yes	Yes	Yes	Yes	Yes	Yes		
	12		Yes	Yes	Yes			30	2
	66			Yes	Yes	Yes	Yes		
	12			Yes	Yes			20	3
	66			Yes	Yes				
	12			Yes	Yes			30	4
	66			Yes	Yes	Yes	Yes		
12			Yes	Yes			20	5	
66			Yes	Yes	Yes				
CA_13A-46A	13			Yes	Yes			30	0
	46						Yes		
CA_13A-66A	13			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_13A-66A-66A	13			Yes	Yes			50	0
	66	See CA_66A-66A Bandwidth combination set 0 in Table 5.6A.1-3							
CA_13A-66B	13			Yes	Yes			30	0
	66	See CA_66B Bandwidth combination set 0 in Table 5.6A.1-1							
CA_29A-66A	29			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_5A-7A	5	Yes	Yes	Yes	Yes			30	0
	7				Yes	Yes	Yes		
	5			Yes	Yes			30	1
7			Yes	Yes	Yes	Yes			
CA_5A-66B	5			Yes	Yes			30	0
	66	See CA_66B Bandwidth combination set 0 in Table 5.6A.1-1							
CA_13A-66C	13			Yes	Yes			50	0
	66	See CA_66C Bandwidth combination set 0 in Table 5.6A.1-1							
CA_2A-14A	2			Yes	Yes	Yes	Yes	30	0
	14			Yes	Yes				
CA_14A-66A	14			Yes	Yes			30	0
	66			Yes	Yes	Yes	Yes		
CA_2A-2A-14A	2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.6A.1-3						50	0
	14			Yes	Yes				
CA_14A-66A-66A	14			Yes	Yes			50	0
	66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.6A.1-3							

Table 5.6A.1-2a: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA (three bands)

E-UTRA CA configuration / Bandwidth combination set									
E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A-5A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	5			Yes	Yes				
CA_2A-4A-7A	2			Yes	Yes	Yes	Yes	60	0
	4			Yes	Yes	Yes	Yes		
	7			Yes	Yes	Yes	Yes		
CA_2A-4A-12A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
CA_2A-4A-13A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	13				Yes				
CA_2A-4A-29A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	29			Yes	Yes				
CA_2A-7A-12A	2			Yes	Yes	Yes	Yes	50	0
	7			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
CA_4A-7A-12A	4			Yes	Yes			40	0
	7			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
	4			Yes	Yes	Yes	Yes	50	1
	7			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
CA_2A-5A-66A	2			Yes	Yes	Yes	Yes	50	0
	5			Yes	Yes				
	66			Yes	Yes	Yes	Yes		
CA_2A-13A-66A	2			Yes	Yes	Yes	Yes	50	0
	13			Yes	Yes				
	66			Yes	Yes	Yes	Yes		
CA_2A-14A-66A	2			Yes	Yes	Yes	Yes	50	0
	14			Yes	Yes				
	66			Yes	Yes	Yes	Yes		

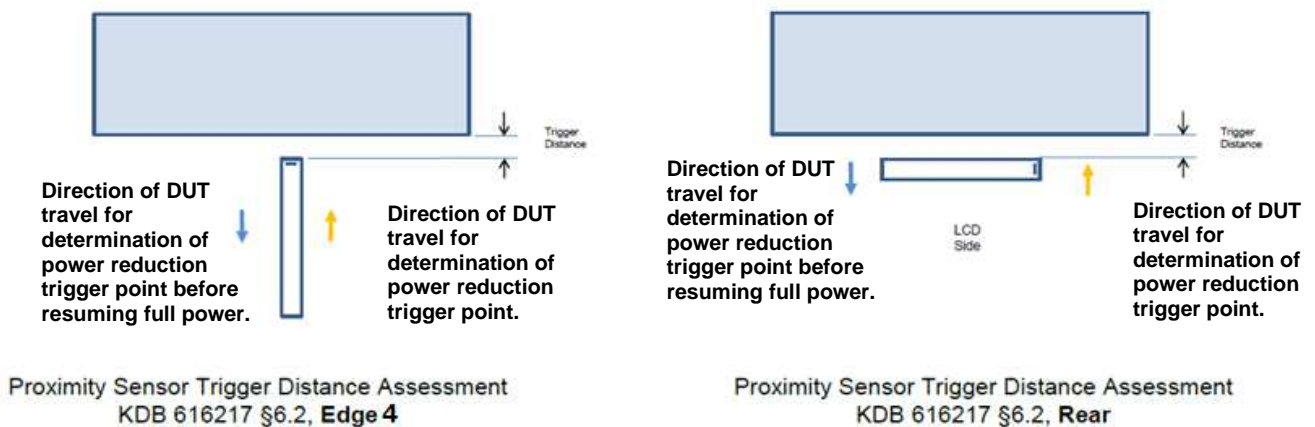
6.7. Power Reduction by Proximity Sensing

The DUT has a proximity sensors to reduce the output power. The position of the sensors and antenna are as shown in the graphic.

6.7.1. Proximity Sensor Triggering distance (KDB 616217 §6.2)

Edge 1 of the DUT was placed directly below the flat phantom. The DUT was moved toward the phantom in accordance with the steps outlined in KDB 616217 §6.2 to determine the trigger distance for enabling power reduction. The DUT was moved away from the phantom to determine the trigger distance for resuming full power.

The measurement was then repeated for the Rear surface.



Tissue simulating liquid	Trigger distance - Edge 4		Trigger distance - Rear		Trigger distance – Rear tilt(Edge4 side)	
	Moving toward phantom	Moving from phantom	Moving toward phantom	Moving from phantom	Moving toward phantom	Moving from phantom
750/900 1750/1900/2400 muscle	20 mm	20 mm	10 mm	10 mm	10 mm	10 mm

Unit : mm

【 Test distance 】

Edge 4: 750/900 /1750/1900/2400 muscle 19 mm

Rear: 750/900/1750/1900/2400 muscle 9 mm

Rear tilt (Edge4 side): 750/900/1750/1900/2400 muscle 9 mm

SAR measurements were performed at the most conservative distance.

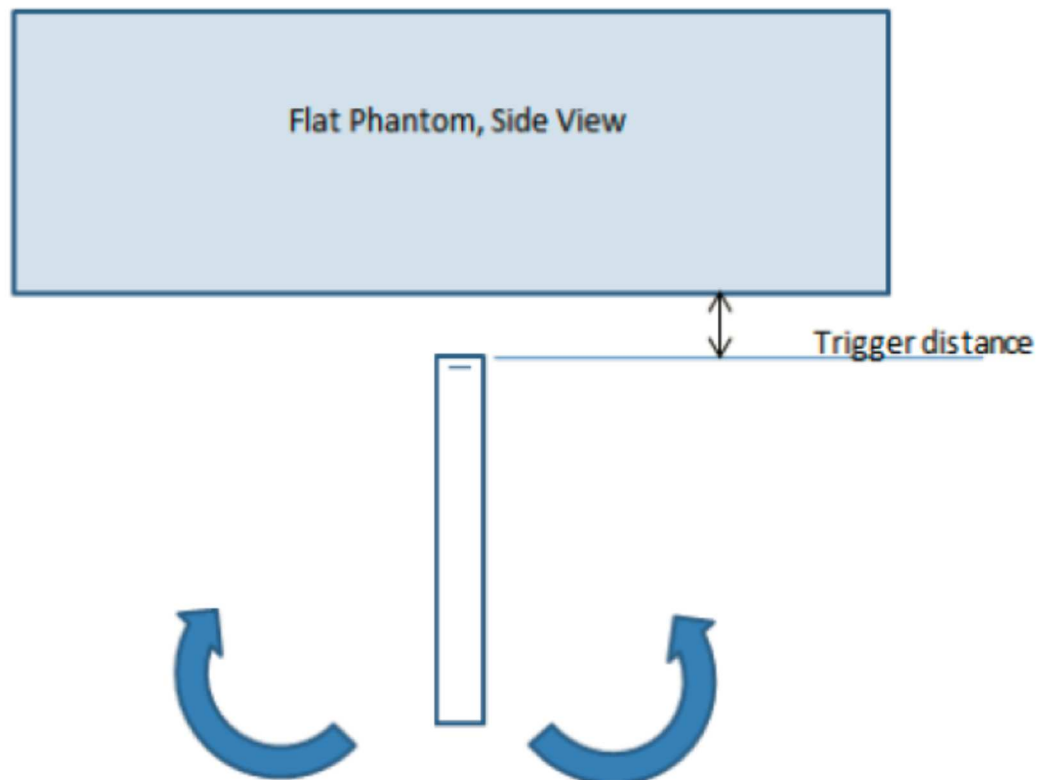
6.7.2. Proximity Sensor Coverage (KDB 616217 §6.3)

As there is no spatial offset between the antenna and the proximity element, except on the display side of the antenna, proximity sensor coverage did not need to be assessed.

6.7.3. Proximity Sensor Tilt Angle (KDB 616217 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with edge 1 parallel to the base of the flat phantom. The DUT was rotated in both directions about edge 1.

The proximity sensor remained triggered with the DUT positioned at the minimum measured trigger distance from the phantom for all angles up to 45°.



6.8. Operation modes for Proximity Sensor

Tablet mode is enabled proximity sensor detection.

Laptop mode is disabled proximity sensor detection.

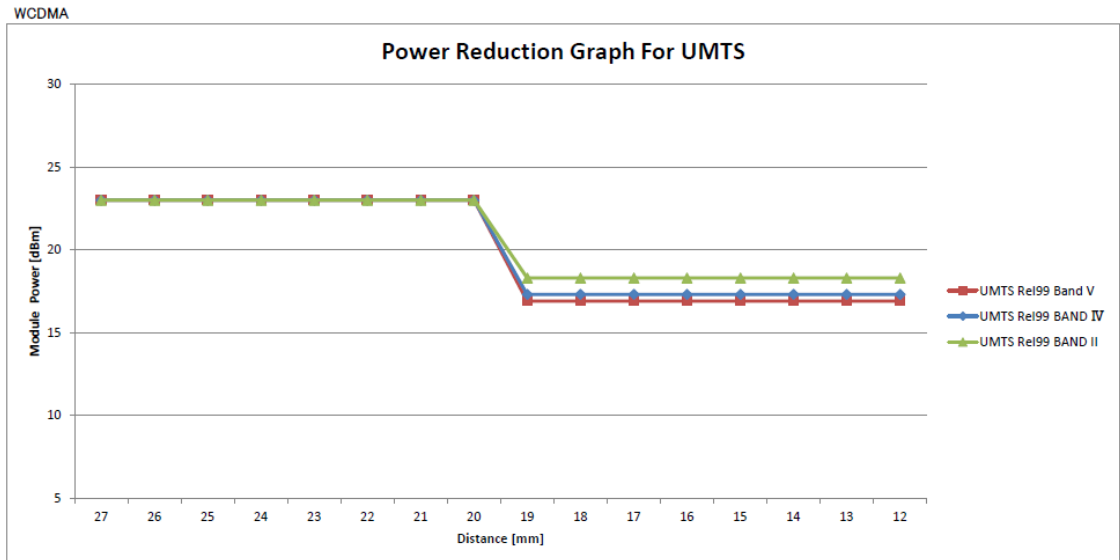
Detail of operation modes for Proximity Sensor

Operation Modes	Proximity sensor detection					
	Edge1	Edge2	Edge3	Edge4	Rear	Rear Tilt (Edge 4 side)
Tablet	No	No	No	Yes	Yes	Yes
Laptop	No	No	No	No	No	No

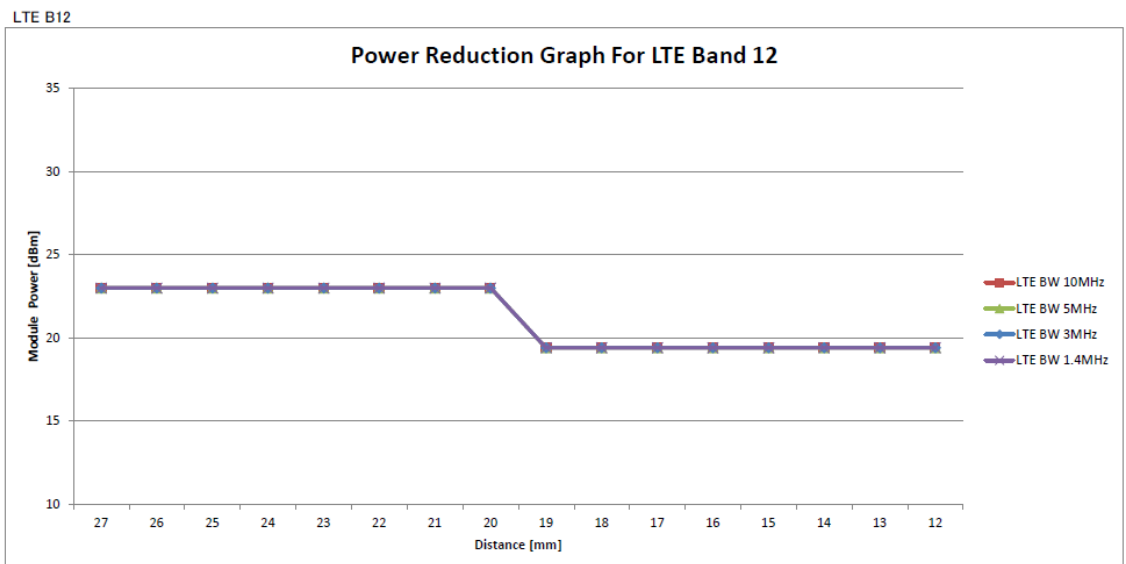
6.9. Triggering distances and power levels

6.9.1. DUT moving toward the phantom

[Edge4]

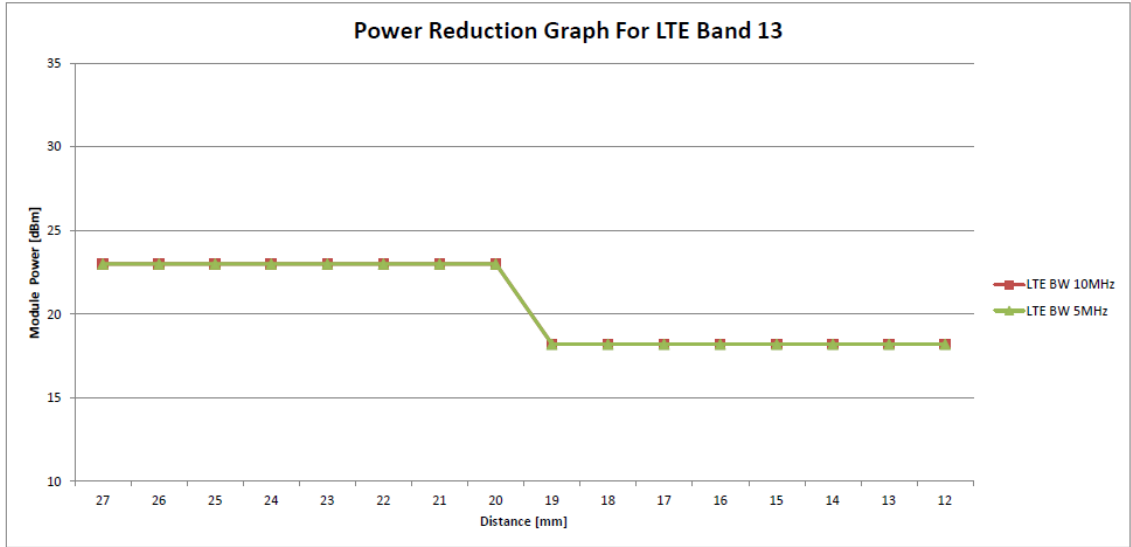


Distance	Coverage Step UMTS															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
UMTS Rel99 Band V	23	23	23	23	23	23	23	23	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
UMTS Rel99 BAND IV	23	23	23	23	23	23	23	23	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
UMTS Rel99 BAND II	23	23	23	23	23	23	23	23	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3



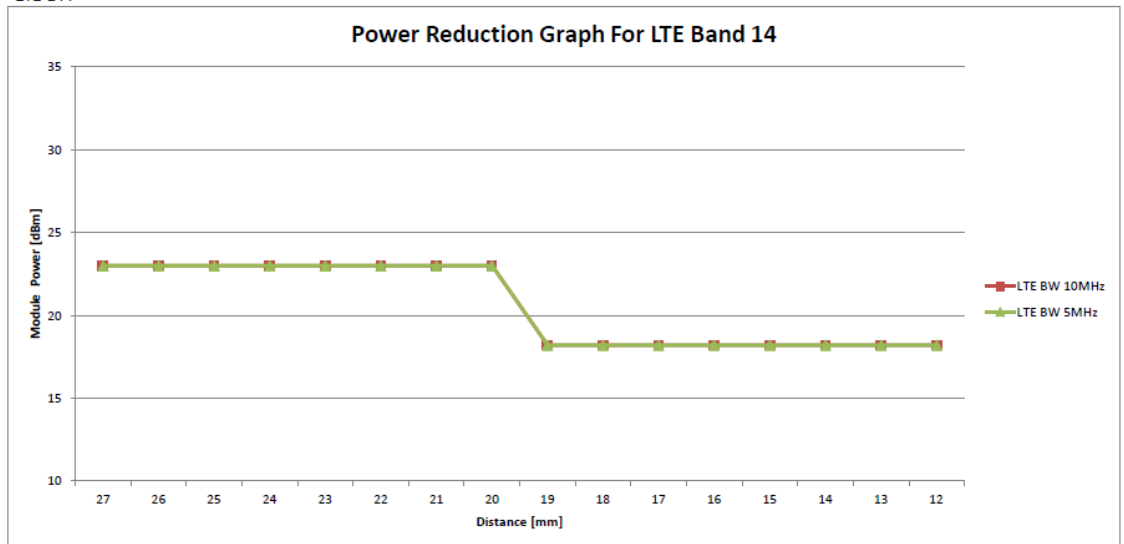
Distance	Coverage Step LTE Band 12															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
LTE BW 5MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
LTE BW 3MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4

LTE B13



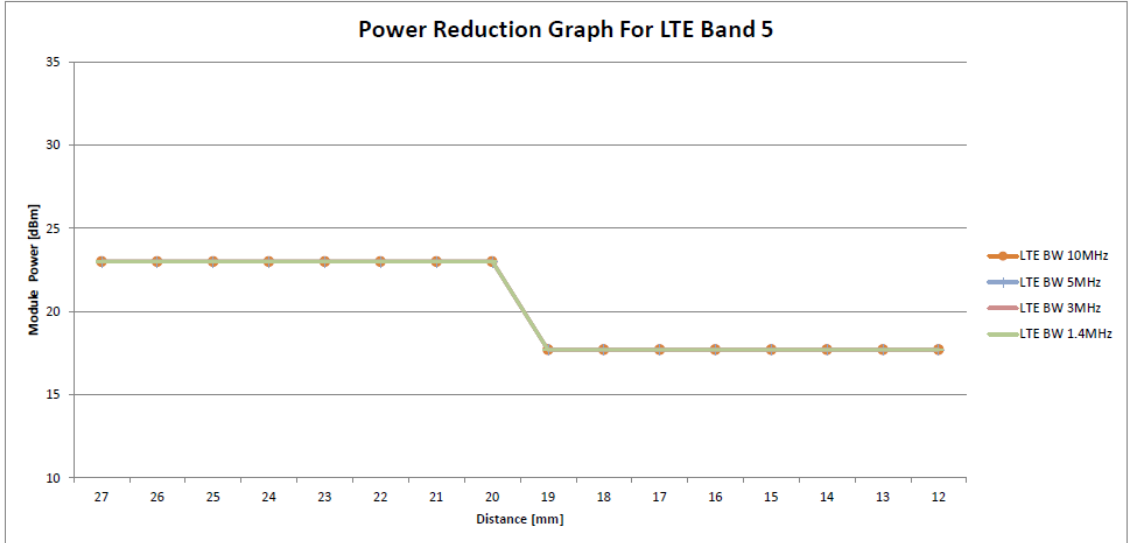
Coverage Step LTE Band 13																
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

LTE B14



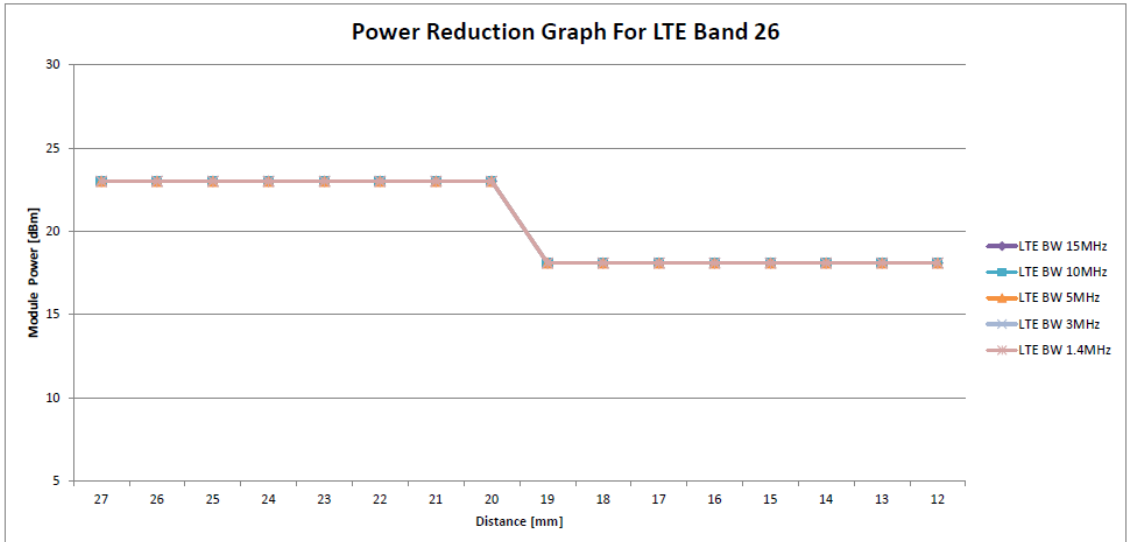
Coverage Step LTE Band 14																
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

LTE B5

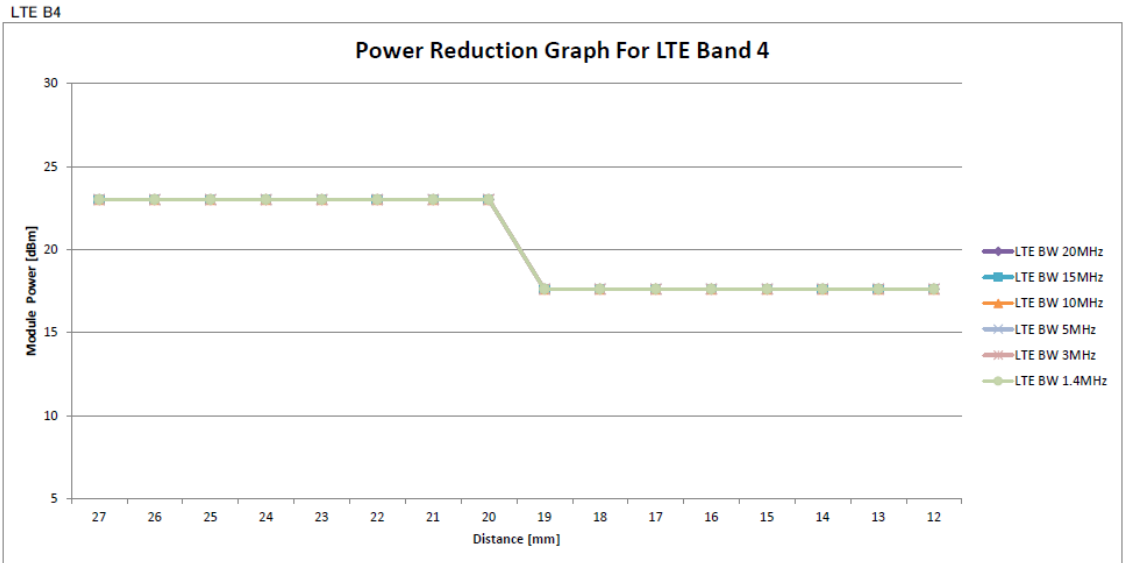


	Coverage Step LTE Band 5															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7

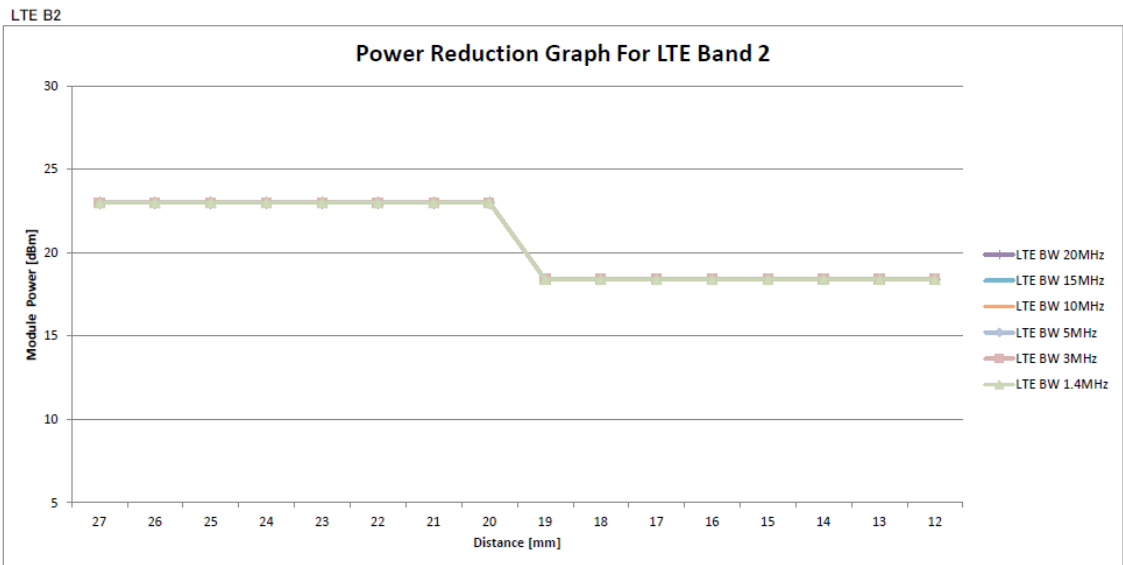
LTE B26



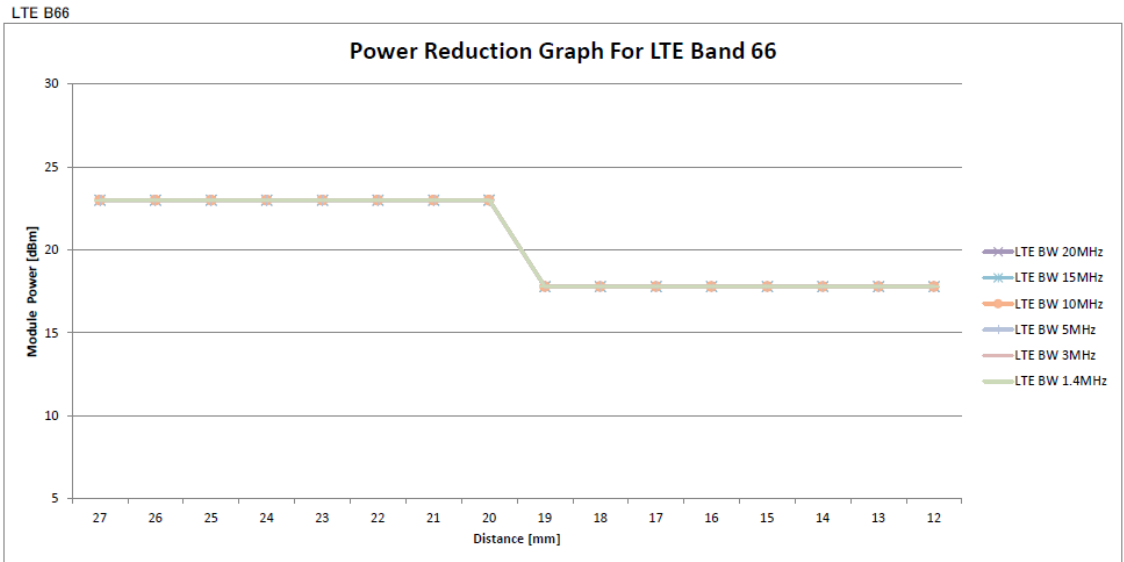
	Coverage Step LTE Band 26															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 15MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 3MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1



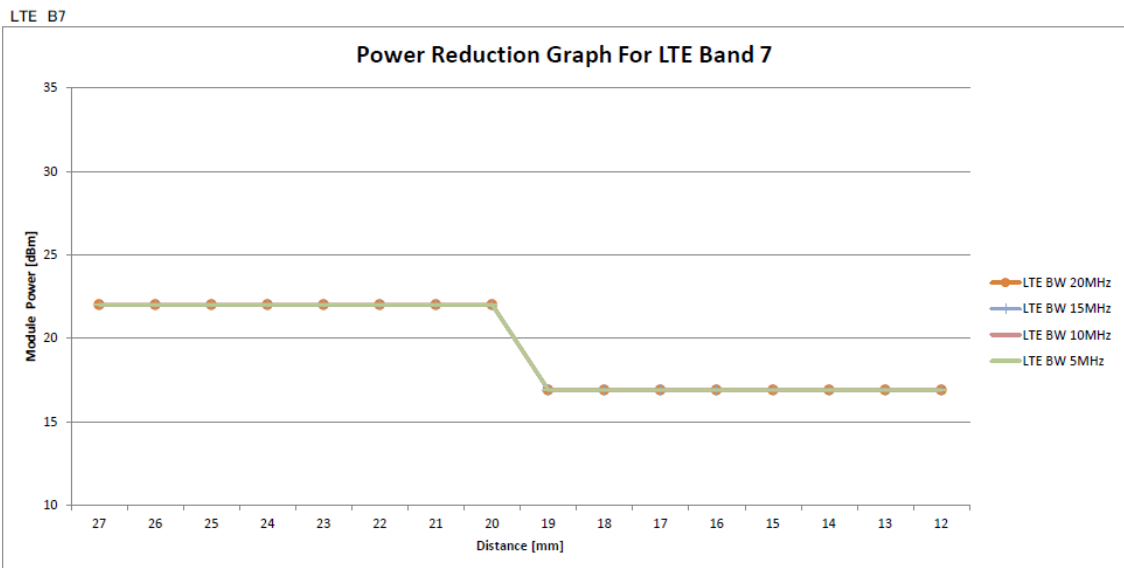
	Coverage Step LTE Band 4															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
LTE BW 15MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6



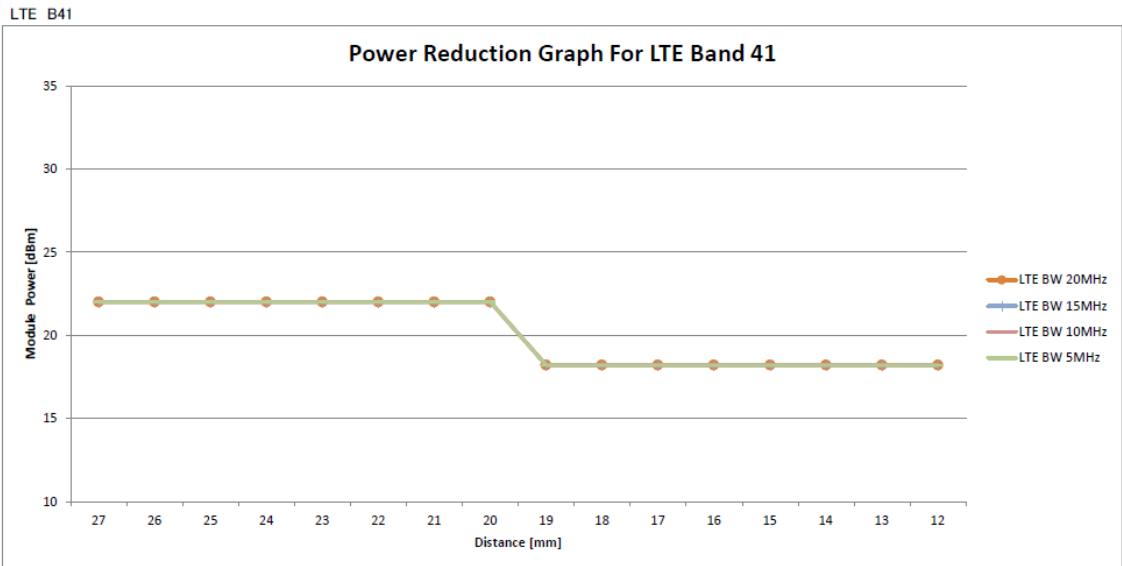
	Coverage Step LTE Band 2															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
LTE BW 15MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
LTE BW 3MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4



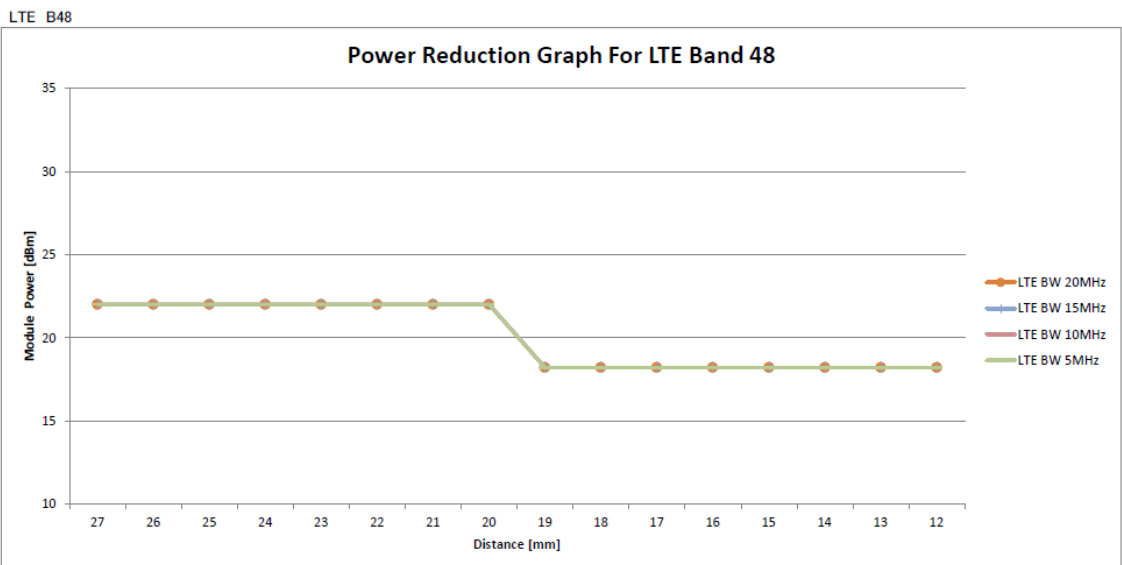
Distance	Coverage Step LTE Band 66															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
LTE BW 15MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



Distance	Coverage Step LTE Band 7															
	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
LTE BW 15MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
LTE BW 10MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
LTE BW 5MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9



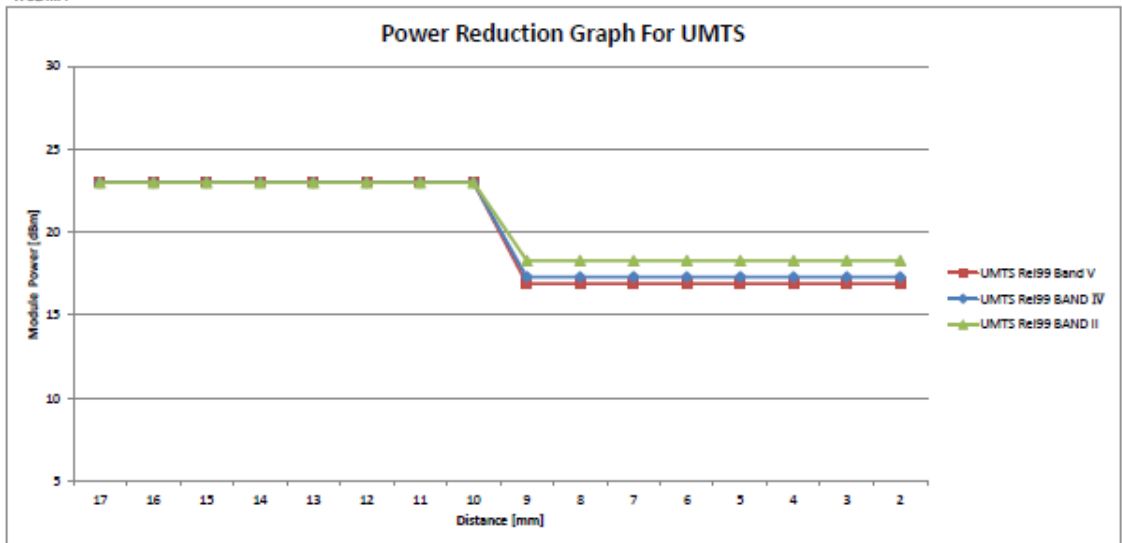
	Coverage Step LTE Band 41															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 15MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 10MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2



	Coverage Step LTE Band 48															
Distance	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 15MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 10MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 5MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

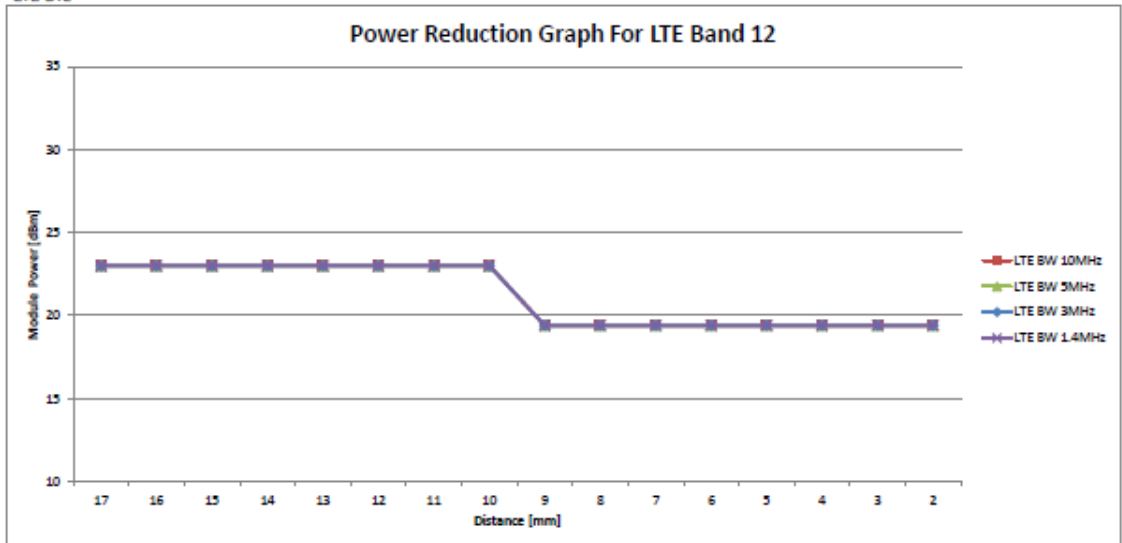
[Rear/Rear tilt(Edge4 side)]

WCDMA

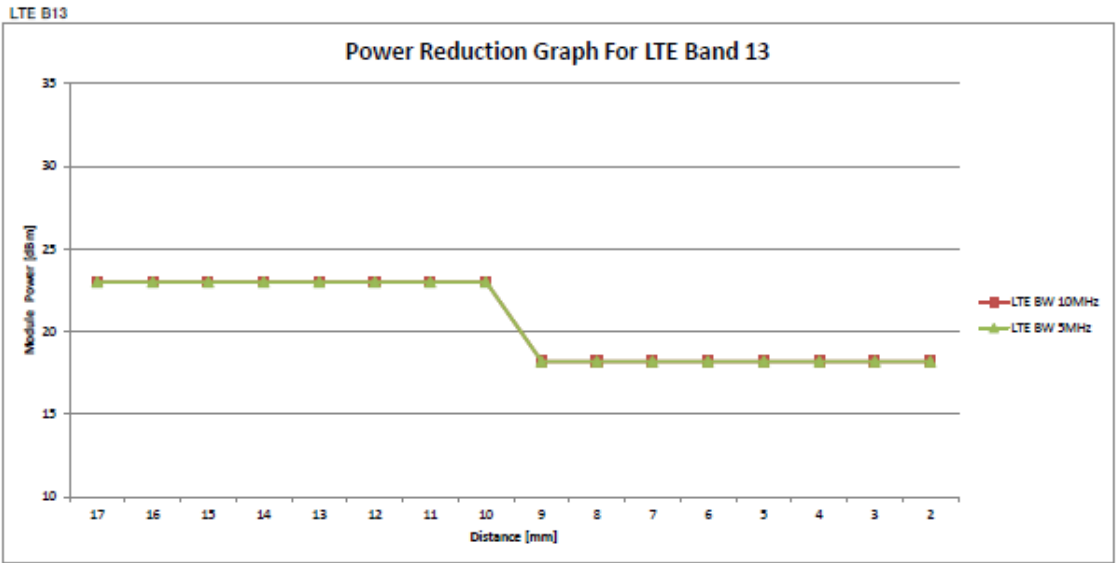


Distance	Coverage Step UMTS																	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2		
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON		
UMTS Rel99 Band V	23	23	23	23	23	23	23	23	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9		
UMTS Rel99 BAND IV	23	23	23	23	23	23	23	23	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3		
UMTS Rel99 BAND II	23	23	23	23	23	23	23	23	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3		

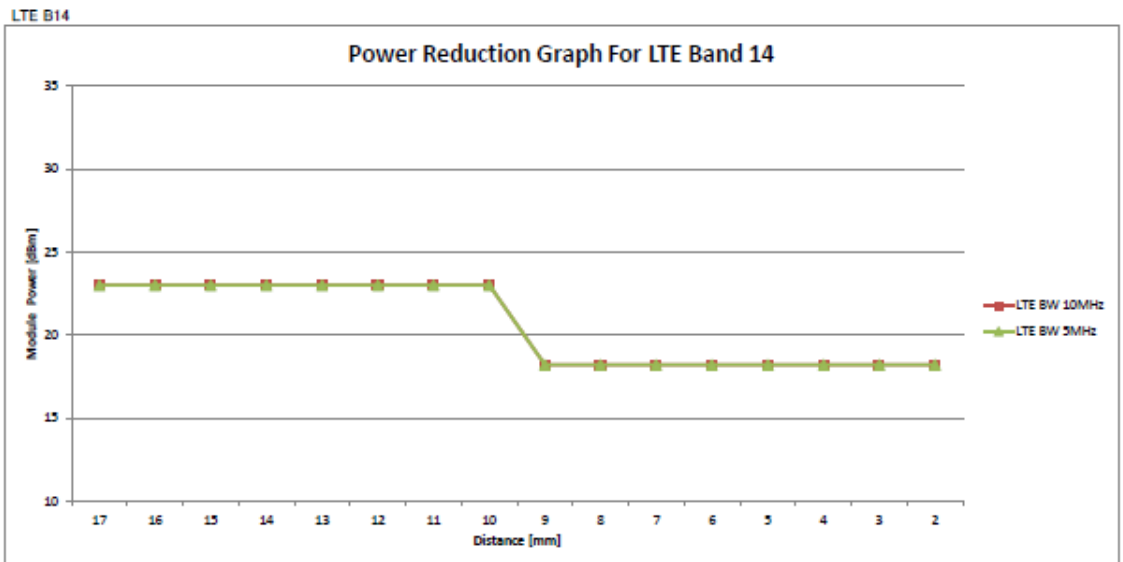
LTE B12



Distance	Coverage Step LTE Band 12																	
	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2		
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON		
LTE BW 10MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4		
LTE BW 5MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4		
LTE BW 3MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4		
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4		

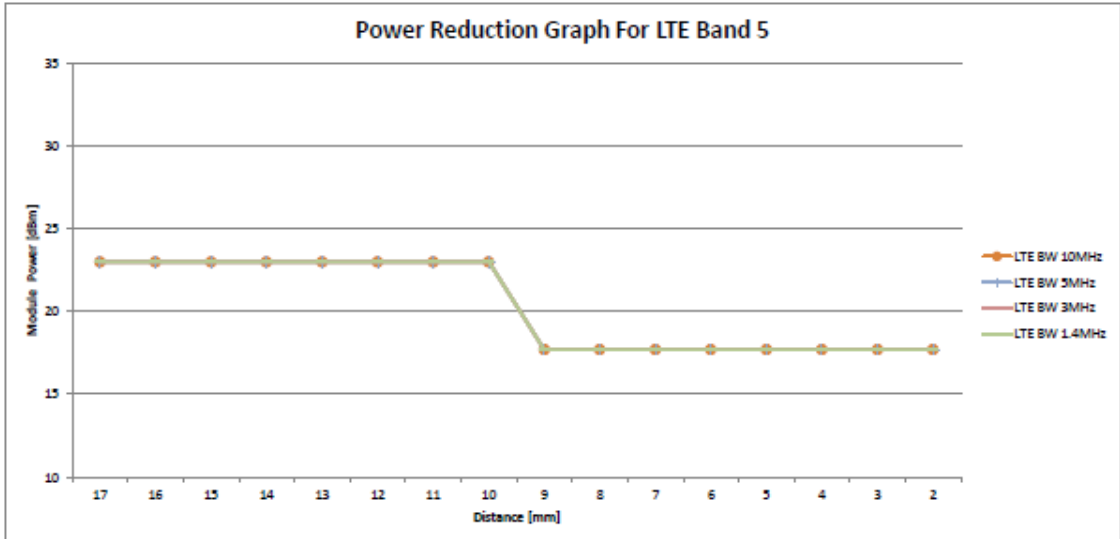


Coverage Step LTE Band 13																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2



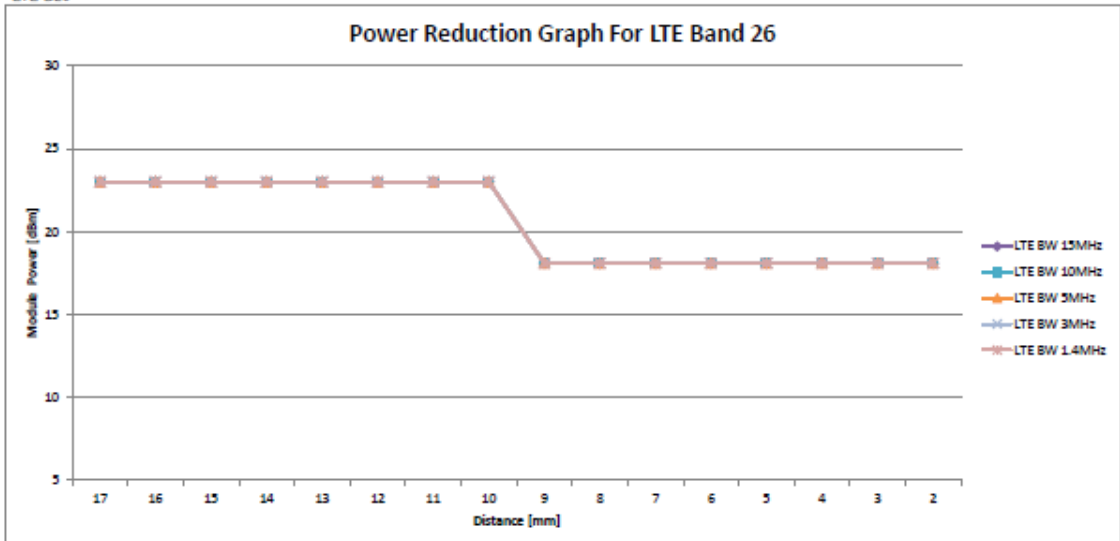
Coverage Step LTE Band 14																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

LTE B5

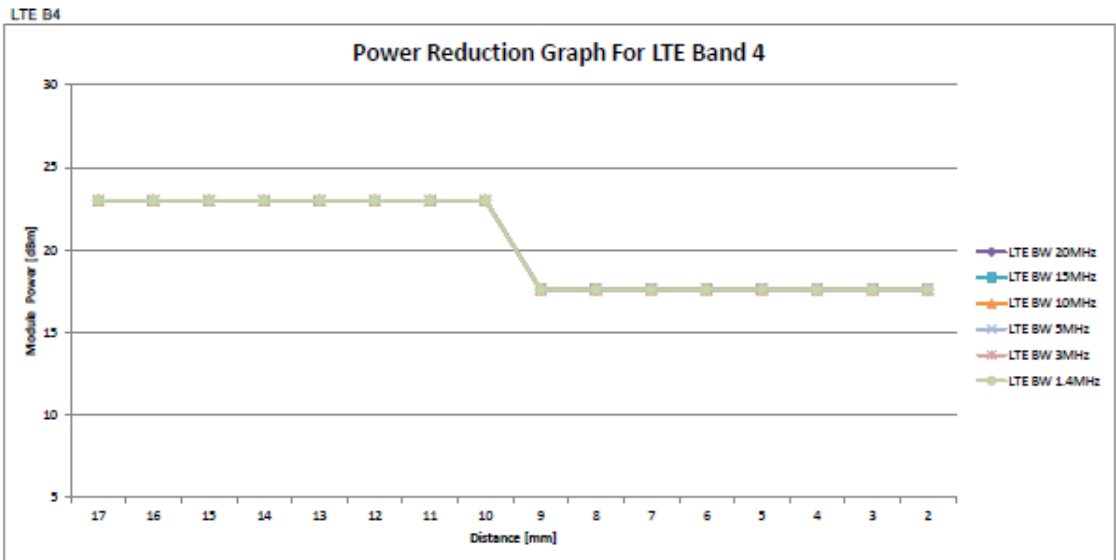


	Coverage Step LTE Band 5															
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7

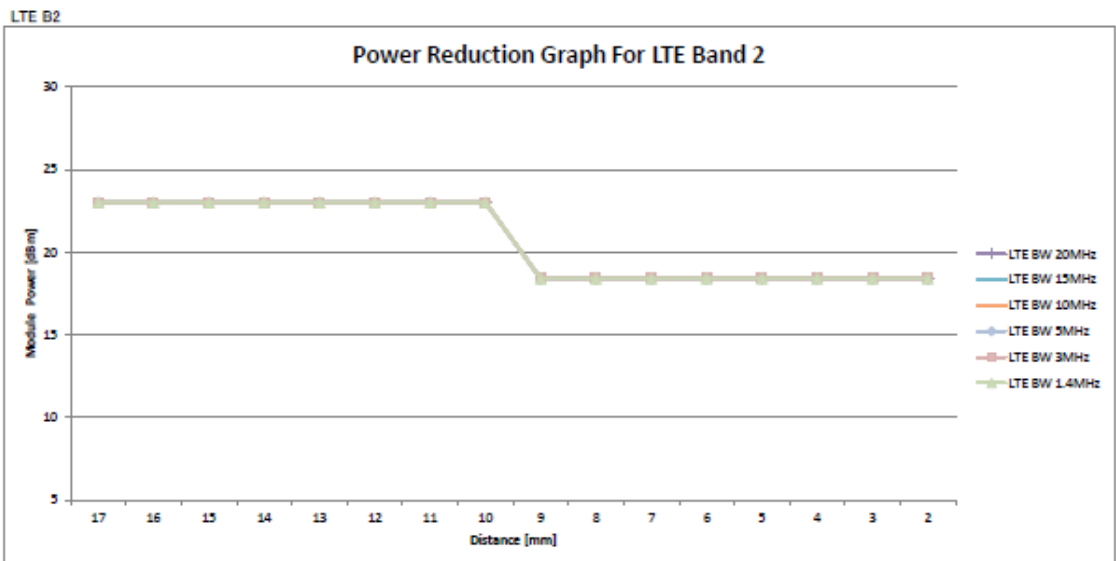
LTE B26



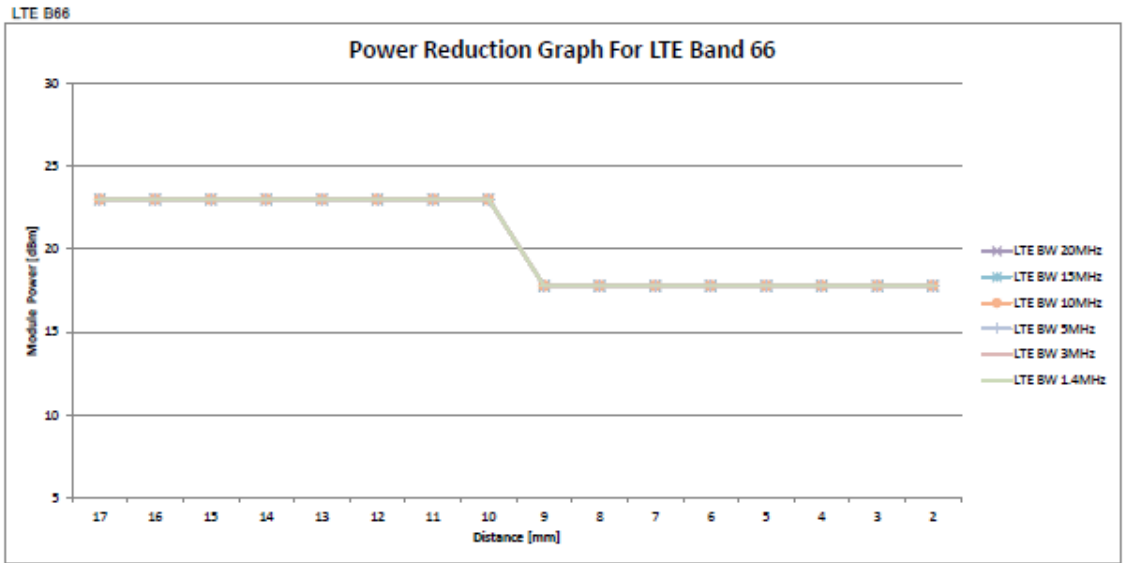
	Coverage Step LTE Band 26															
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 15MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 3MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1



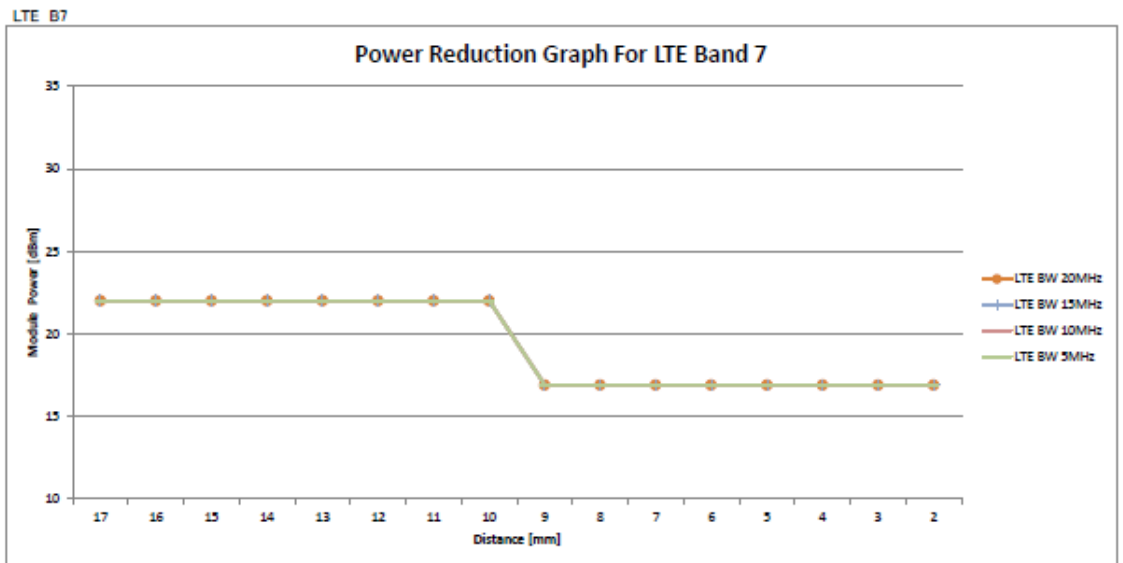
		Coverage Step LTE Band 4															
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	
LTE BW 20MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
LTE BW 15MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	



		Coverage Step LTE Band 2															
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	
LTE BW 20MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
LTE BW 15MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
LTE BW 10MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
LTE BW 5MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
LTE BW 3MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	

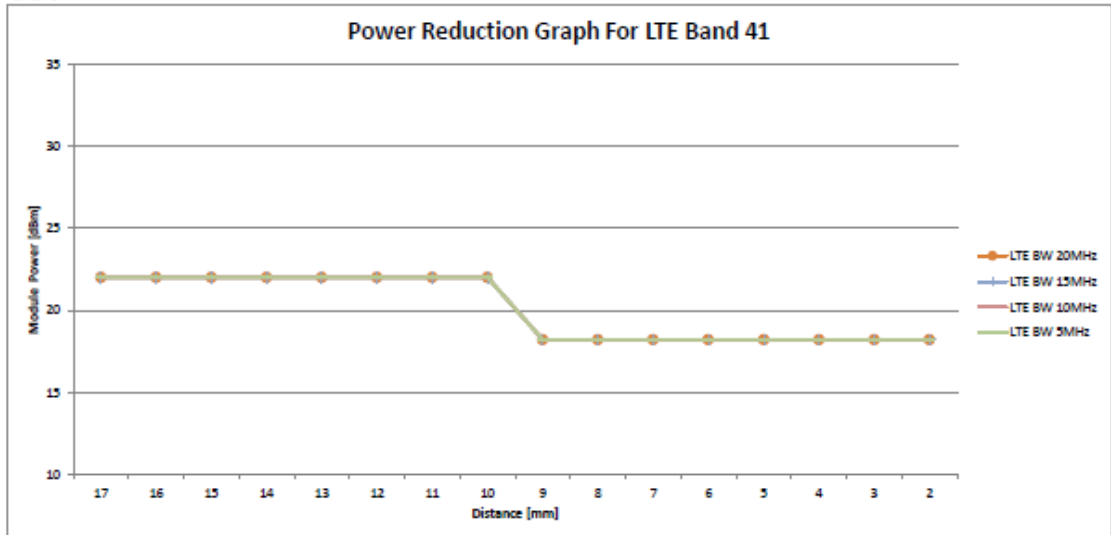


	Coverage Step LTE Band 66																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	
LTE BW 20MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
LTE BW 15MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
LTE BW 10MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
LTE BW 5MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
LTE BW 3MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
LTE BW 1.4MHz	23	23	23	23	23	23	23	23	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	



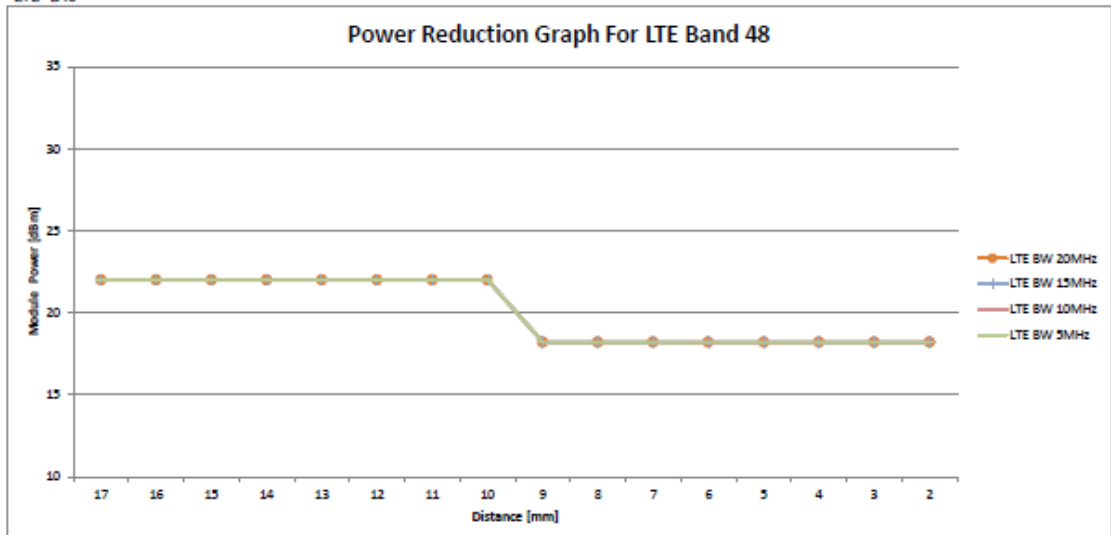
	Coverage Step LTE Band 7																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON	
LTE BW 20MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	
LTE BW 15MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	
LTE BW 10MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	
LTE BW 5MHz	22	22	22	22	22	22	22	22	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	

LTE B41



Coverage Step LTE Band 41																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 15MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 10MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
LTE BW 5MHz	22	22	22	22	22	22	22	22	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2

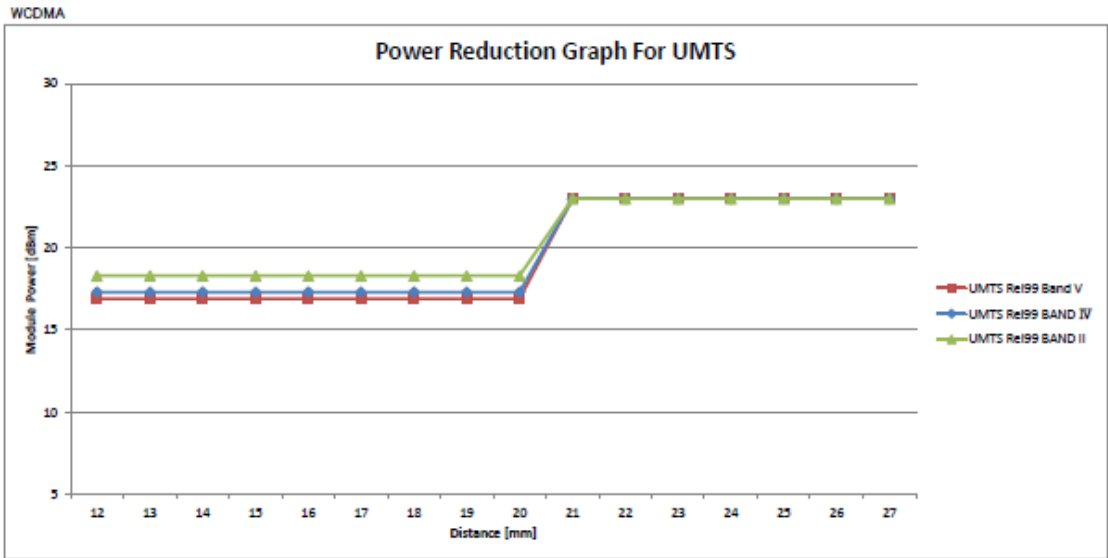
LTE B48



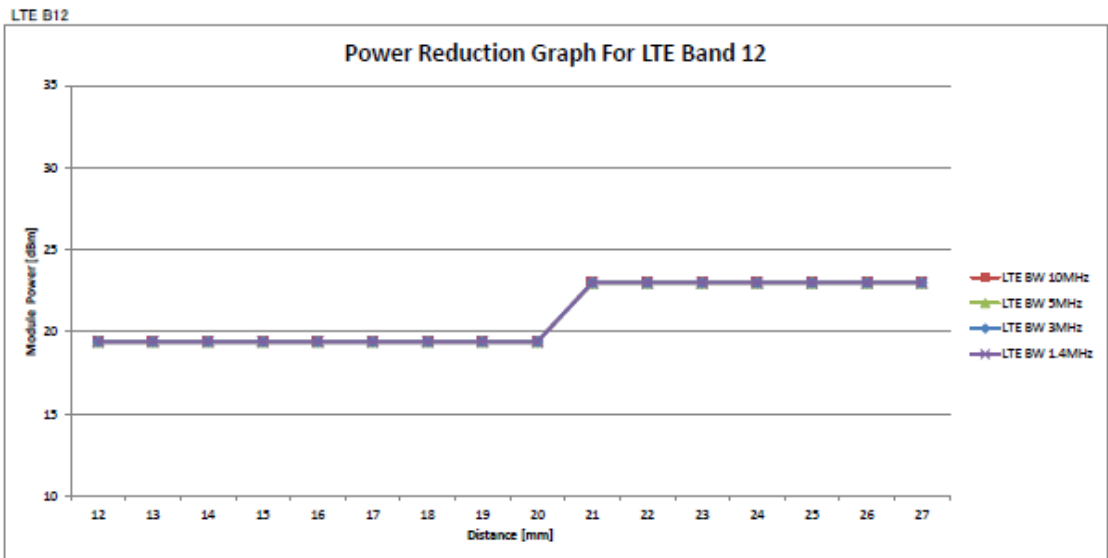
Coverage Step LTE Band 48																
Distance	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
DPR	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
LTE BW 20MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 15MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 10MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
LTE BW 5MHz	19	19	19	19	19	19	19	19	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

6.9.2. DUT moving from the phantom

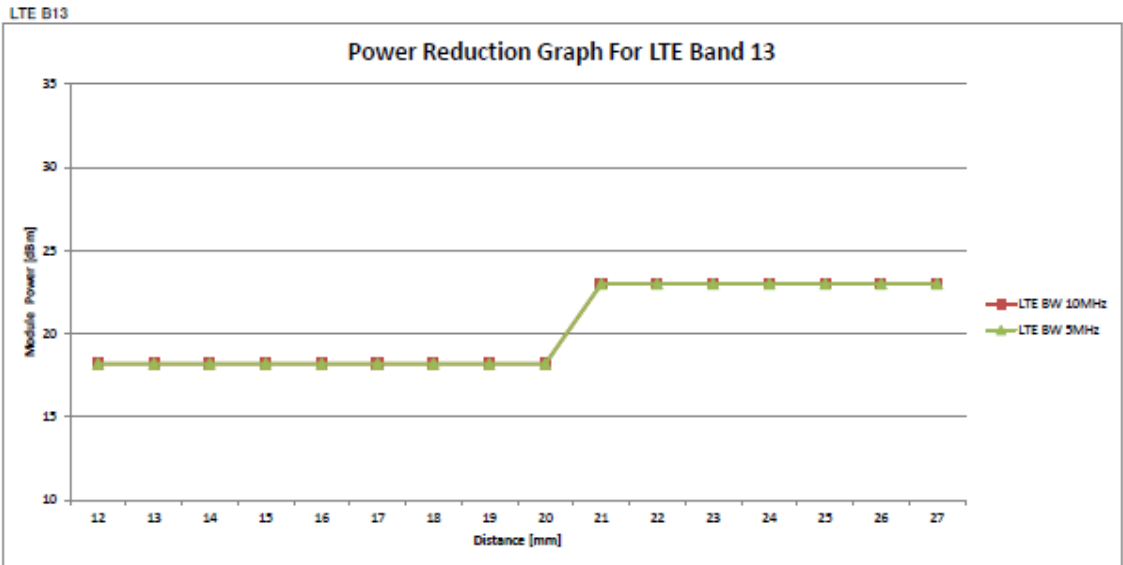
[Edge4]



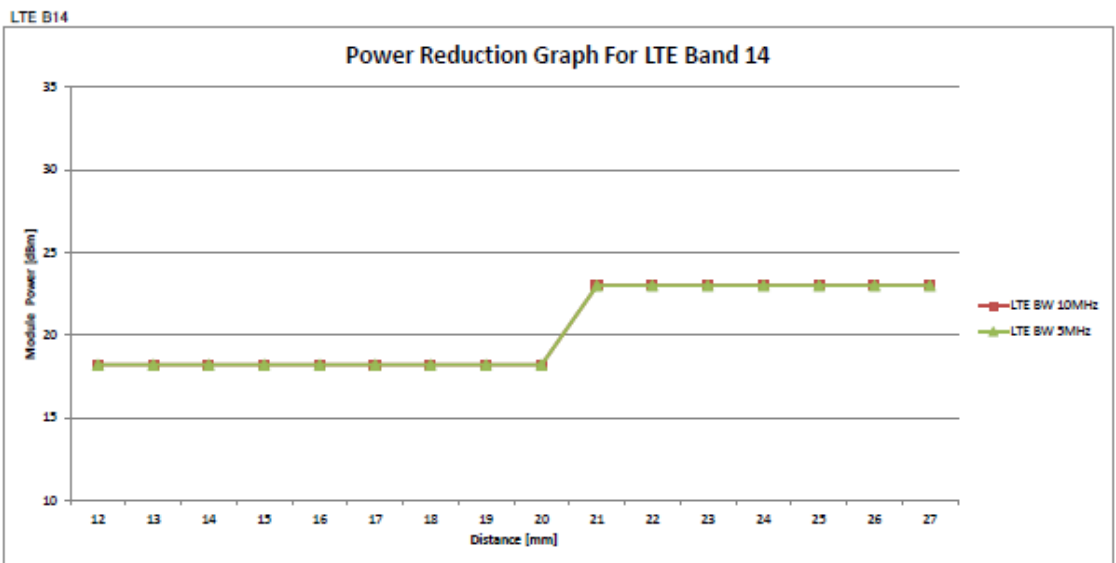
Distance	Coverage Step UMTS															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
UMTS Rel99 Band V	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	23	23	23	23	23	23	23
UMTS Rel99 BAND IV	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	23	23	23	23	23	23	23
UMTS Rel99 BAND II	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	23	23	23	23	23	23	23



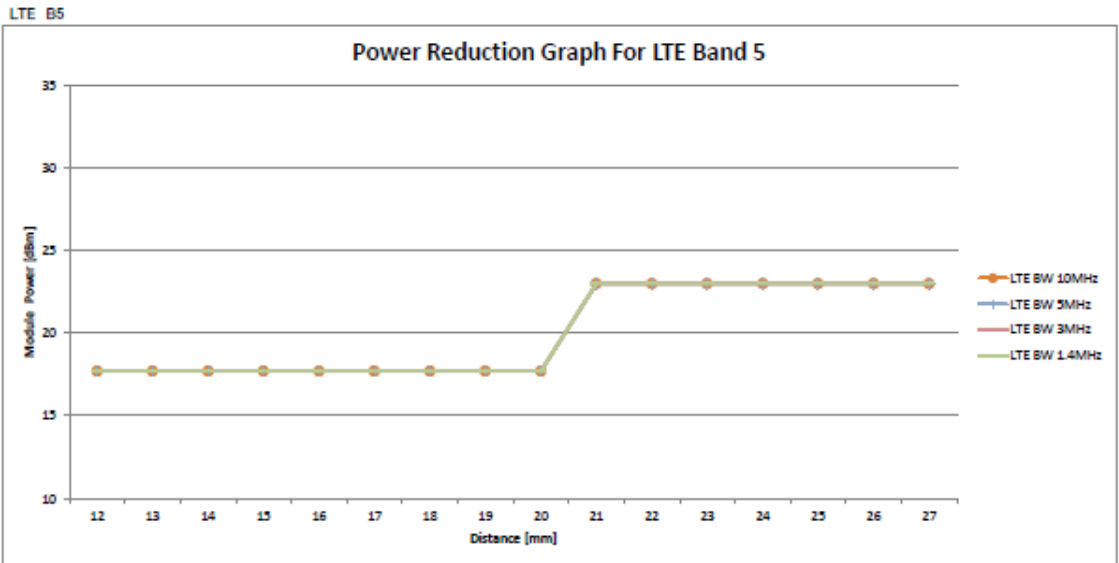
Distance	Coverage Step LTE Band 12															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23
LTE BW 5MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23
LTE BW 3MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23
LTE BW 1.4MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23



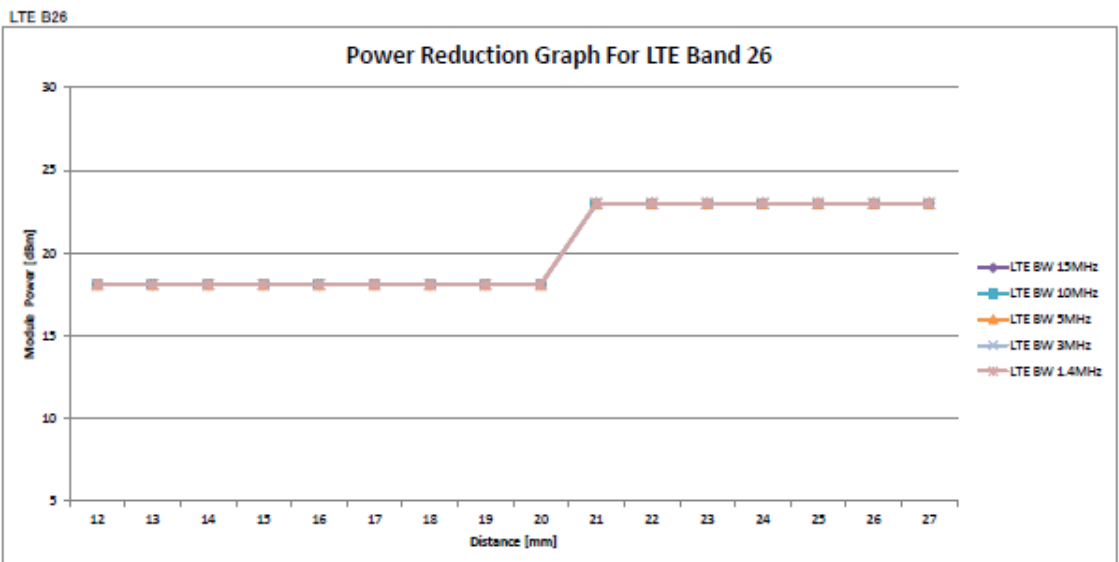
Distance	Coverage Step LTE Band 13															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23



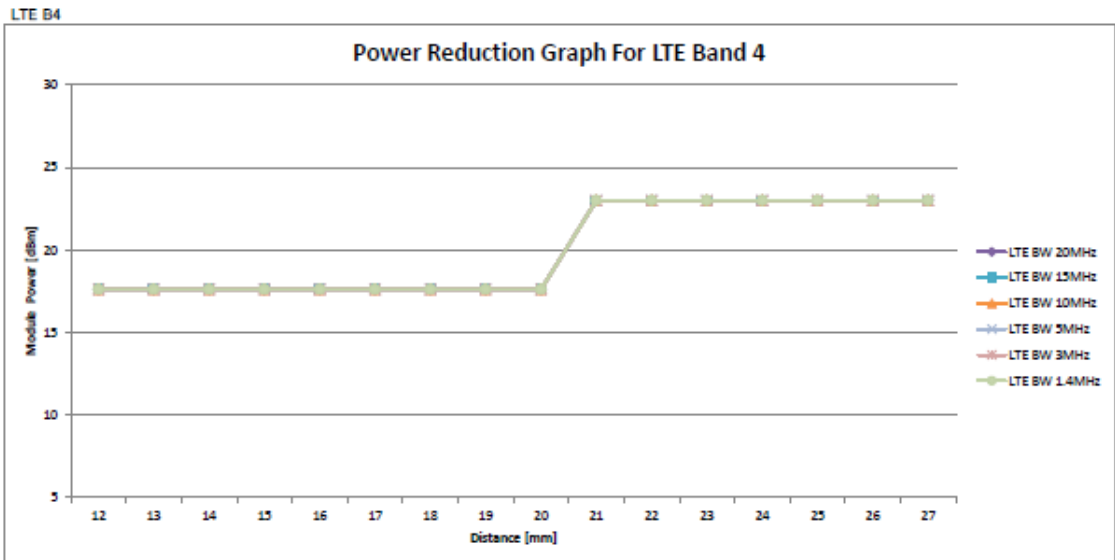
Distance	Coverage Step LTE Band 14															
	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23



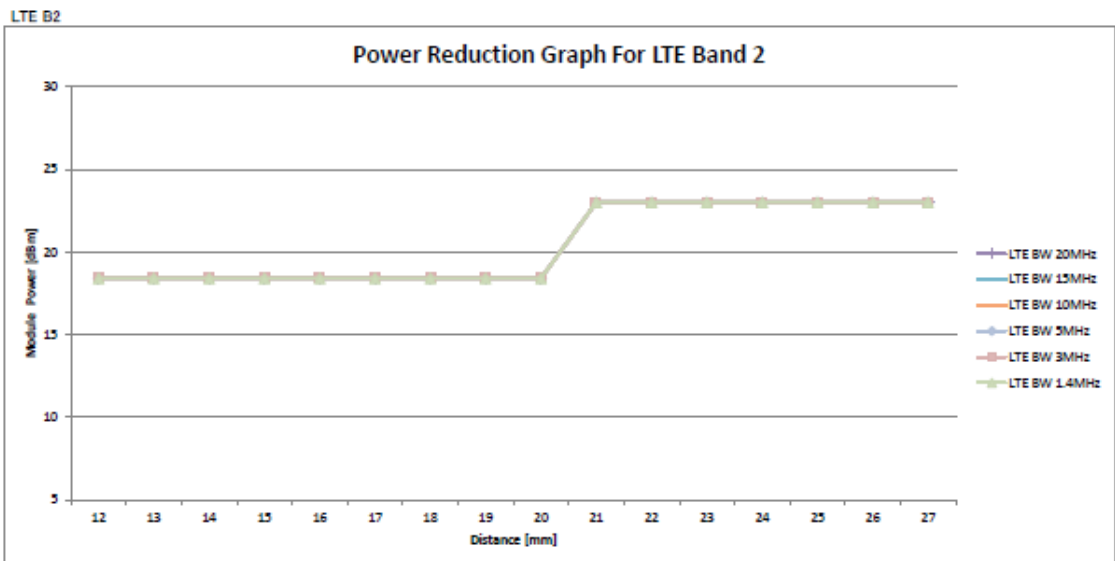
		Coverage Step LTE Band 5															
Distance		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR		ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz		17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 5MHz		17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 3MHz		17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 1.4MHz		17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23



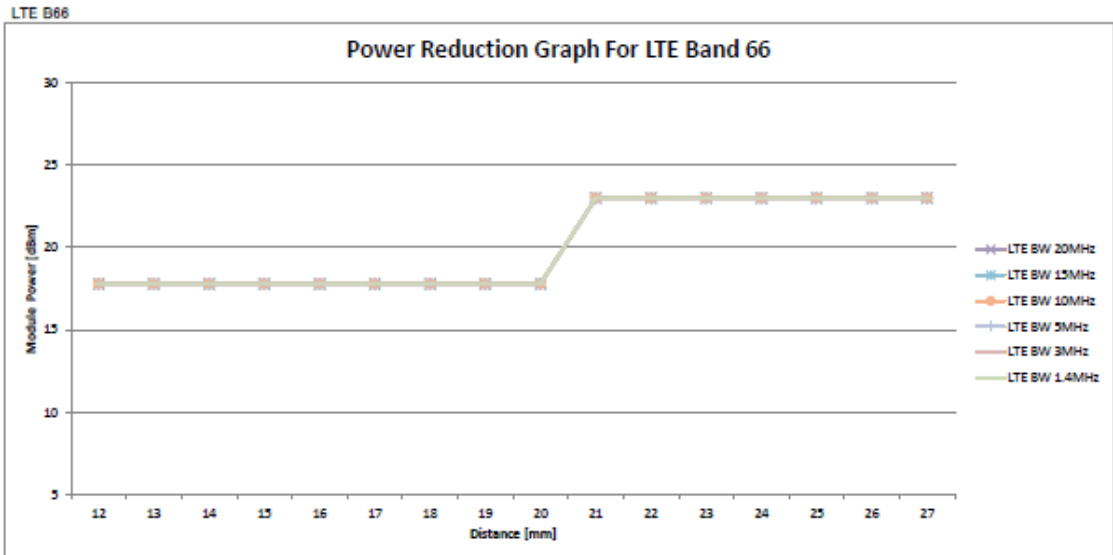
		Coverage Step LTE Band 26															
Distance		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR		ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 15MHz		18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 10MHz		18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 5MHz		18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 3MHz		18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 1.4MHz		18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23



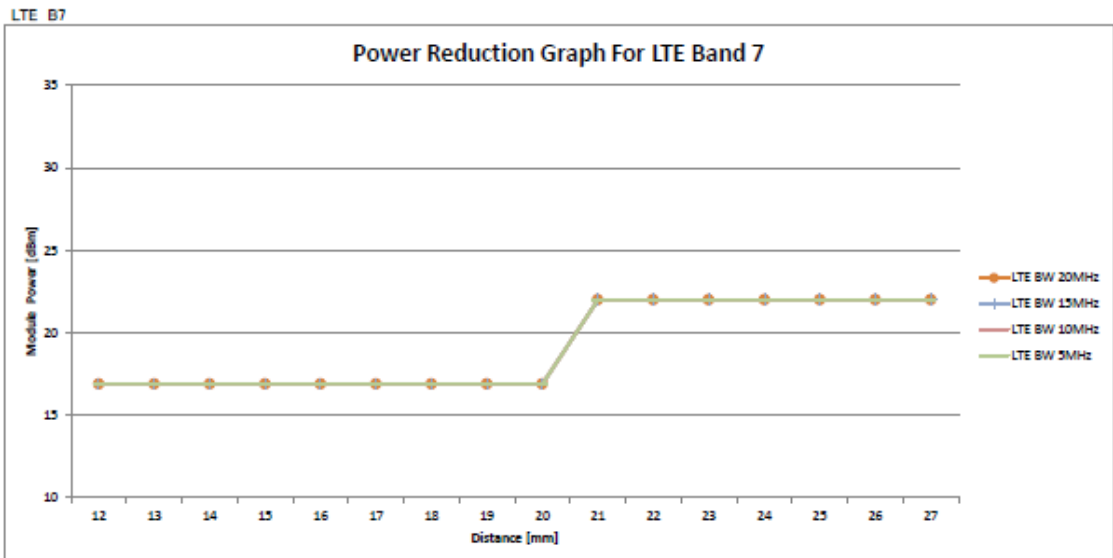
Coverage Step LTE Band 4																
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 15MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 10MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 5MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 3MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 1.4MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23



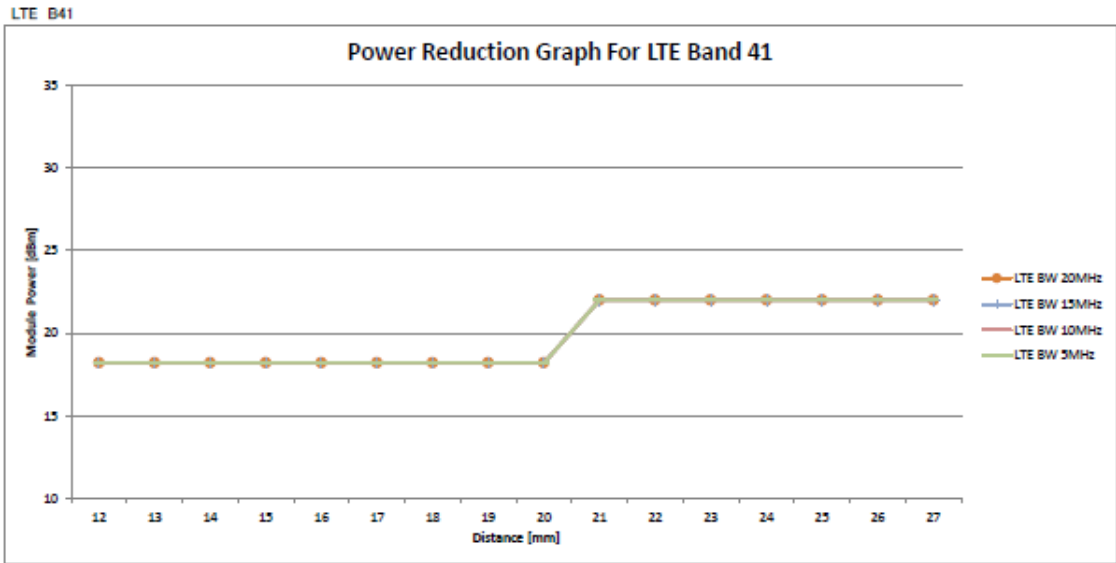
Coverage Step LTE Band 2																
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 15MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 10MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 5MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 3MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 1.4MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23



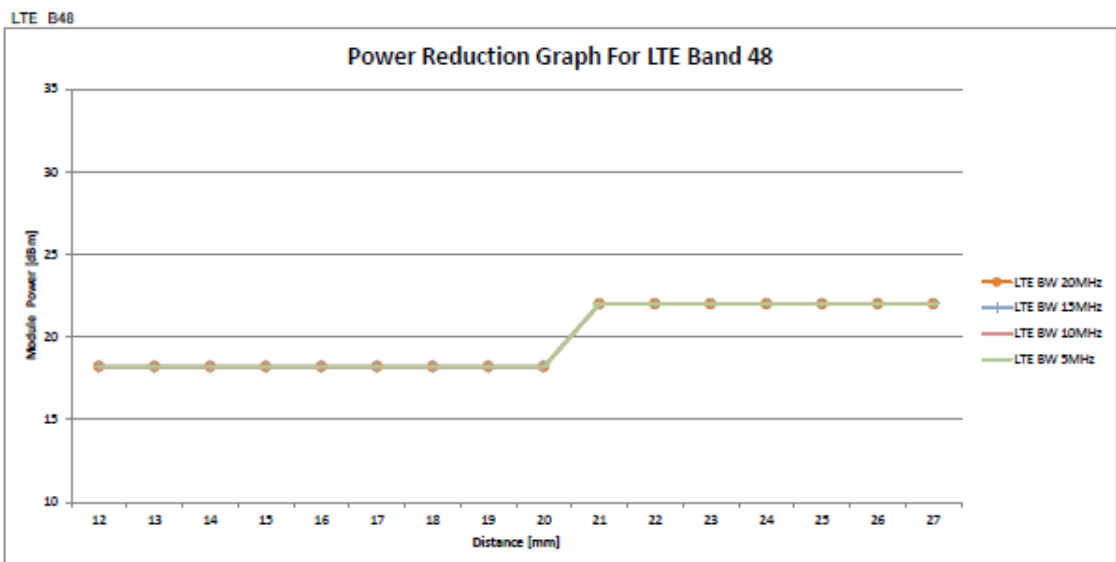
	Coverage Step LTE Band 25															
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 15MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 10MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 5MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 3MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 1.4MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23



	Coverage Step LTE Band 7															
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 15MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 10MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 5MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22

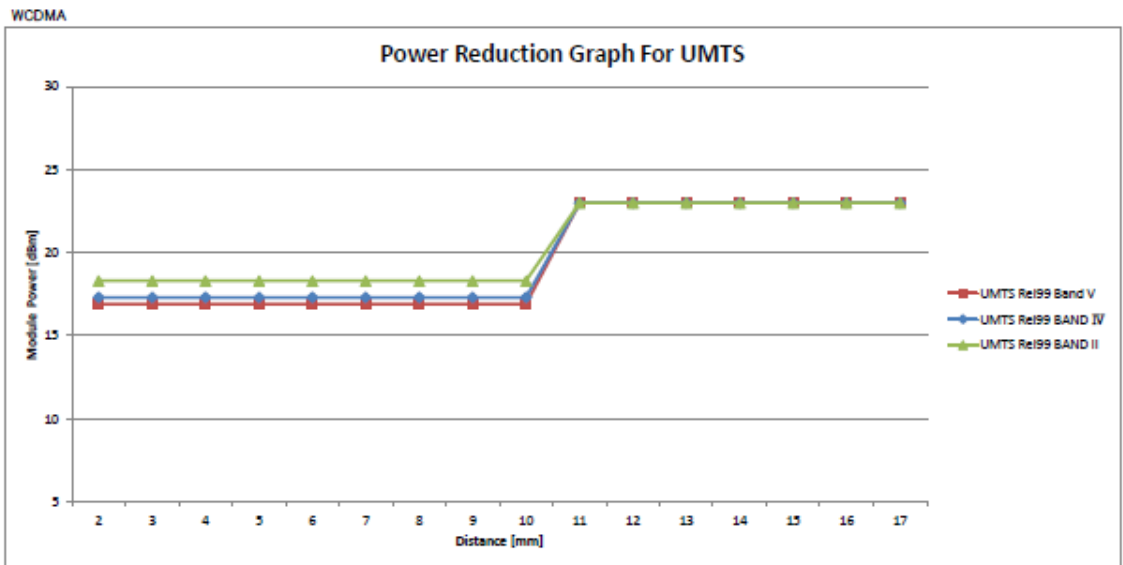


Coverage Step LTE Band 41																
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 15MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22

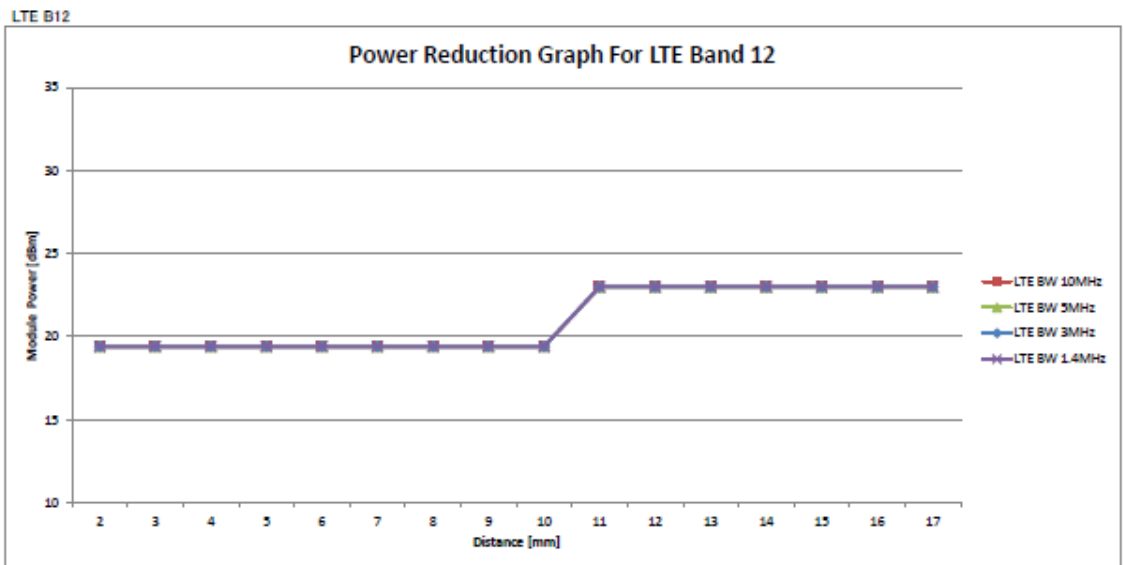


Coverage Step LTE Band 48																
Distance	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 15MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 10MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 5MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19

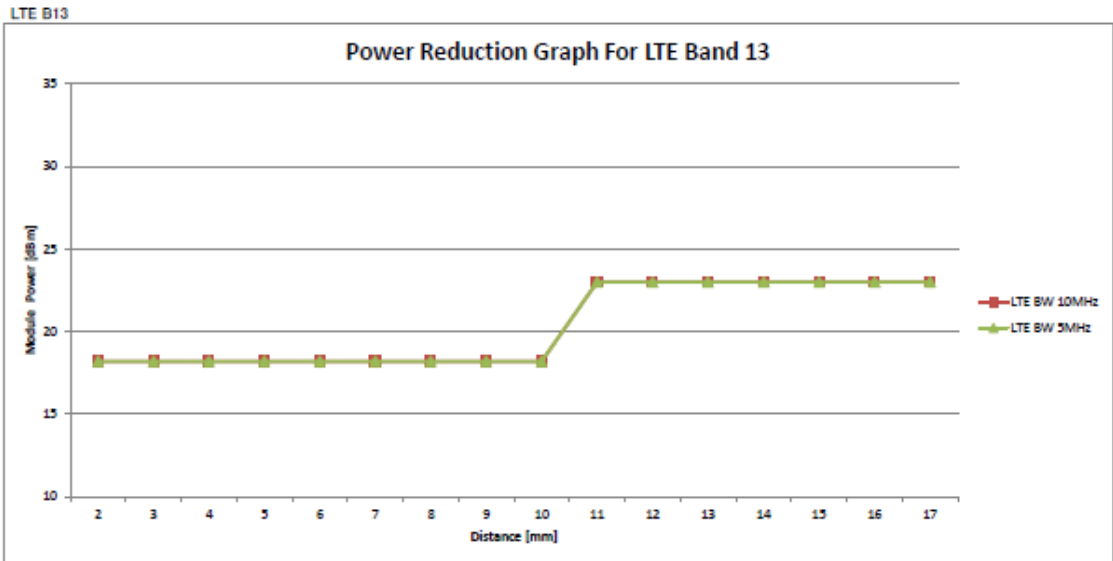
[Rear/Rear tilt(Edge4 side)]



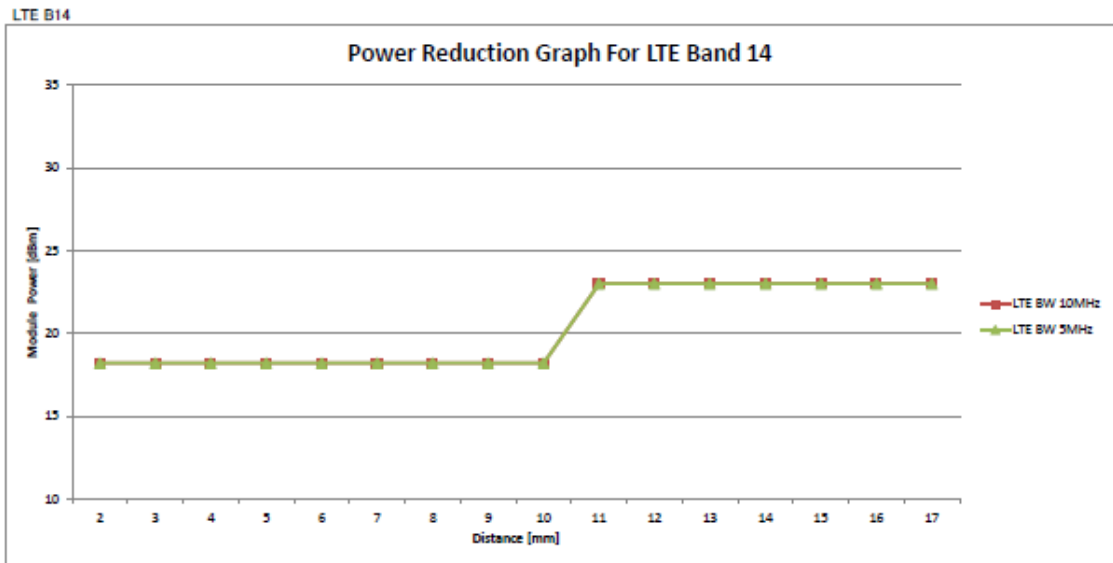
	Coverage Step UMTS																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
DPD	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
UMTS Rel99 Band V	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	23	23	23	23	23	23	23	
UMTS Rel99 BAND IV	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	23	23	23	23	23	23	23	
UMTS Rel99 BAND II	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	23	23	23	23	23	23	23	



	Coverage Step LTE Band 12																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
DPD	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
LTE BW 10MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23	
LTE BW 5MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23	
LTE BW 3MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23	
LTE BW 1.4MHz	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23	23	23	23	23	23	23	

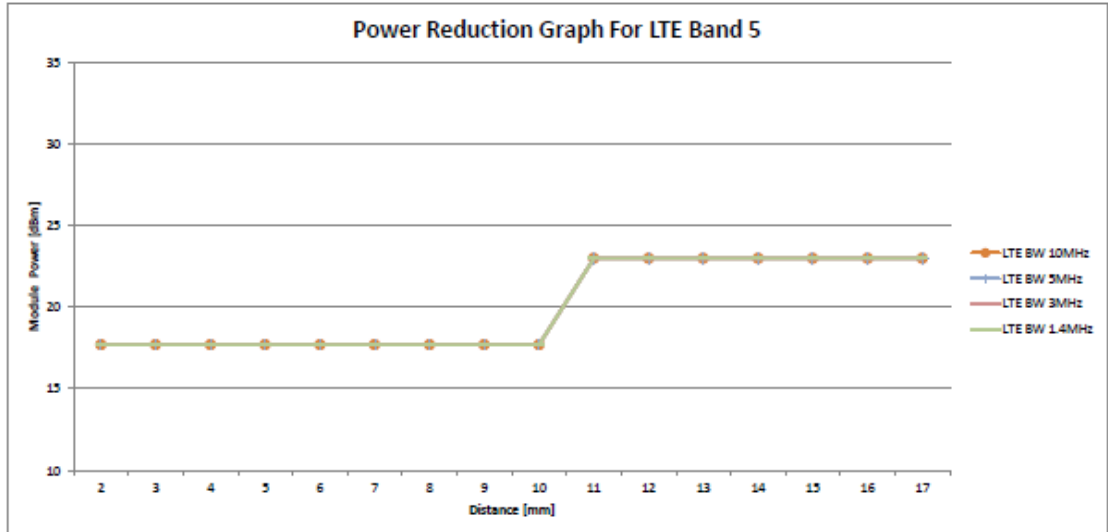


Coverage Step LTE Band 13																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23



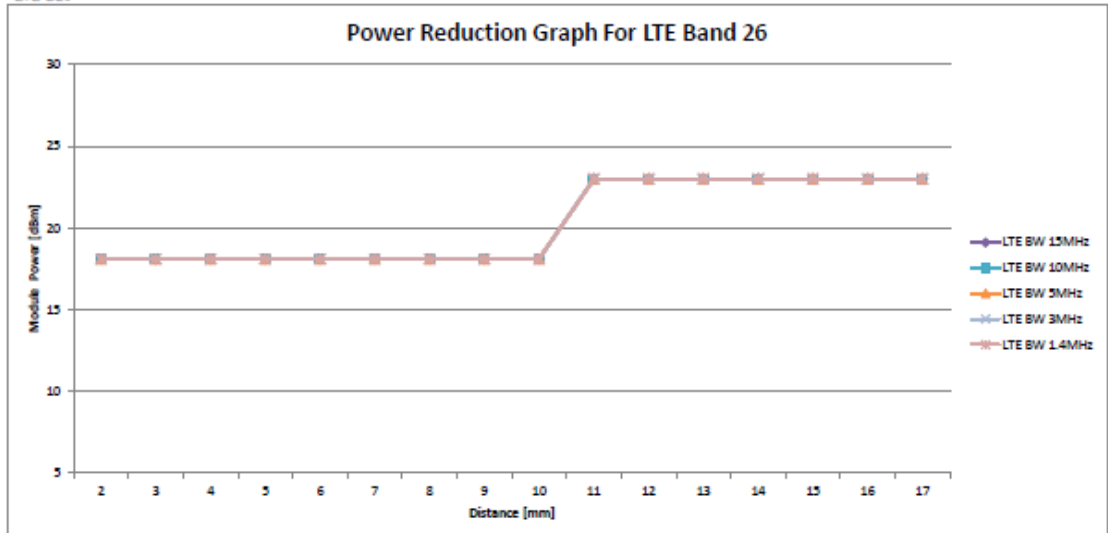
Coverage Step LTE Band 14																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	23	23	23	23	23	23	23

LTE B5

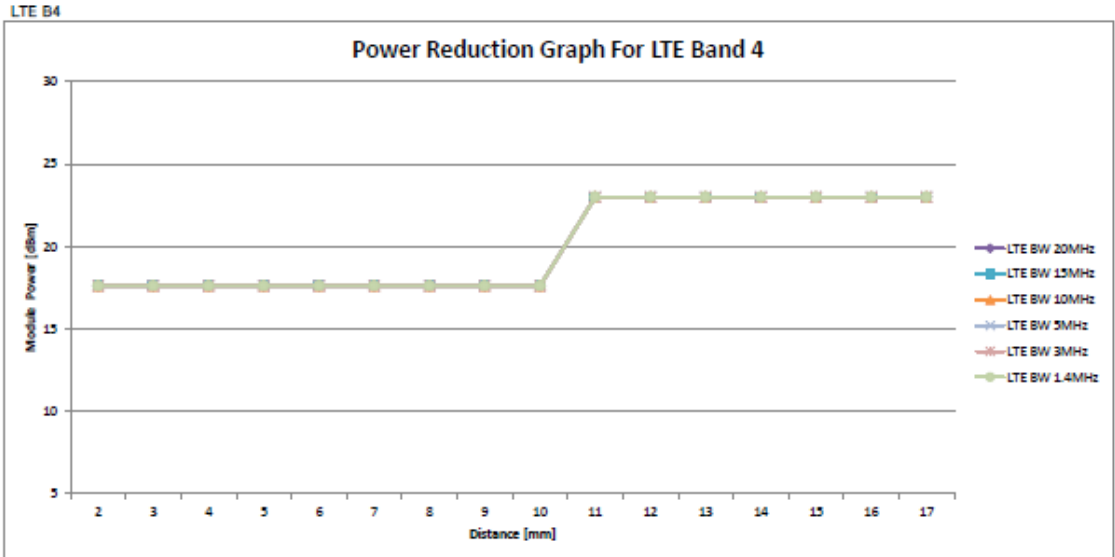


Coverage Step LTE Band 5																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 10MHz	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 5MHz	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 3MHz	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23
LTE BW 1.4MHz	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	23	23	23	23	23	23	23

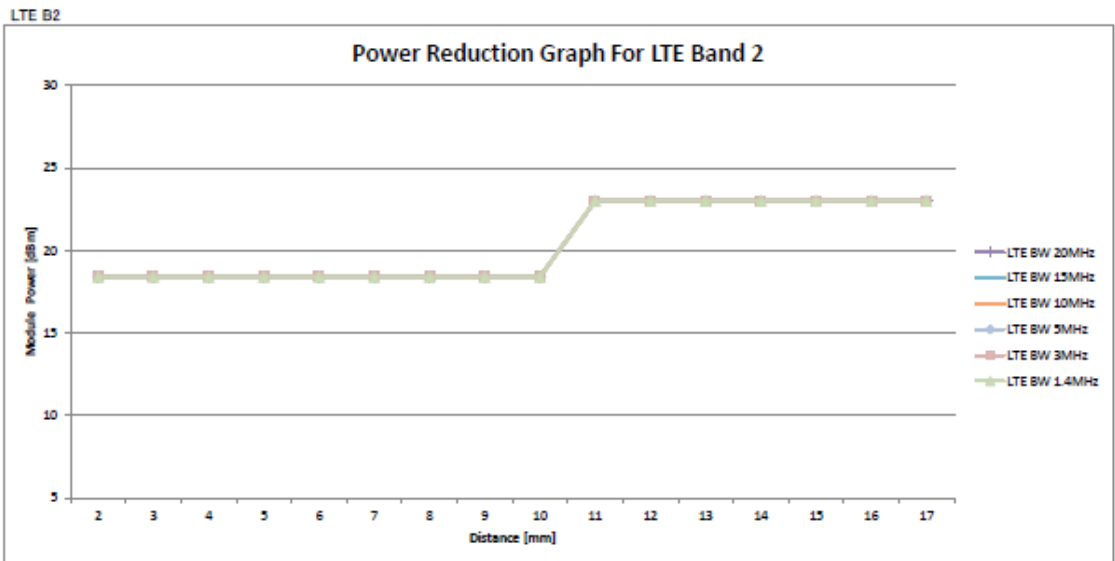
LTE B26



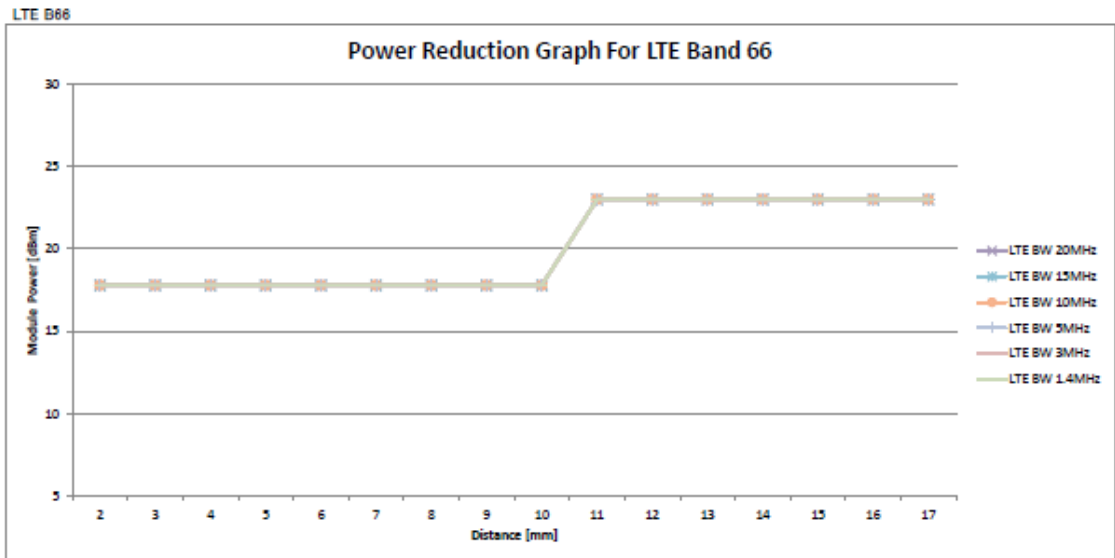
Coverage Step LTE Band 26																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 15MHz	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 10MHz	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 5MHz	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 3MHz	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23
LTE BW 1.4MHz	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	23	23	23	23	23	23	23



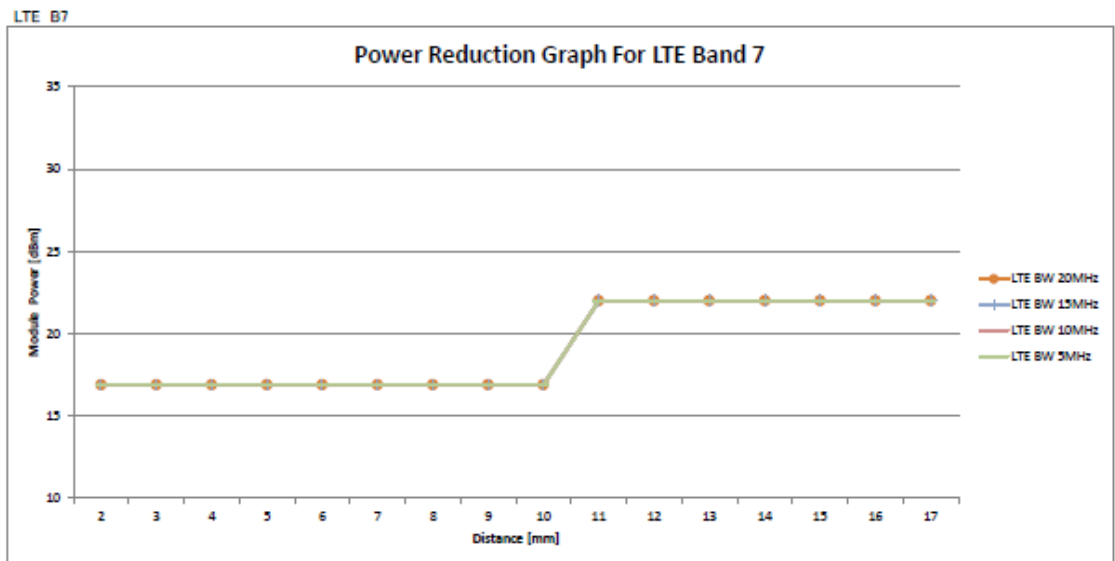
Coverage Step LTE Band 4																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 15MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 10MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 5MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 3MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23
LTE BW 1.4MHz	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23	23	23	23	23	23	23



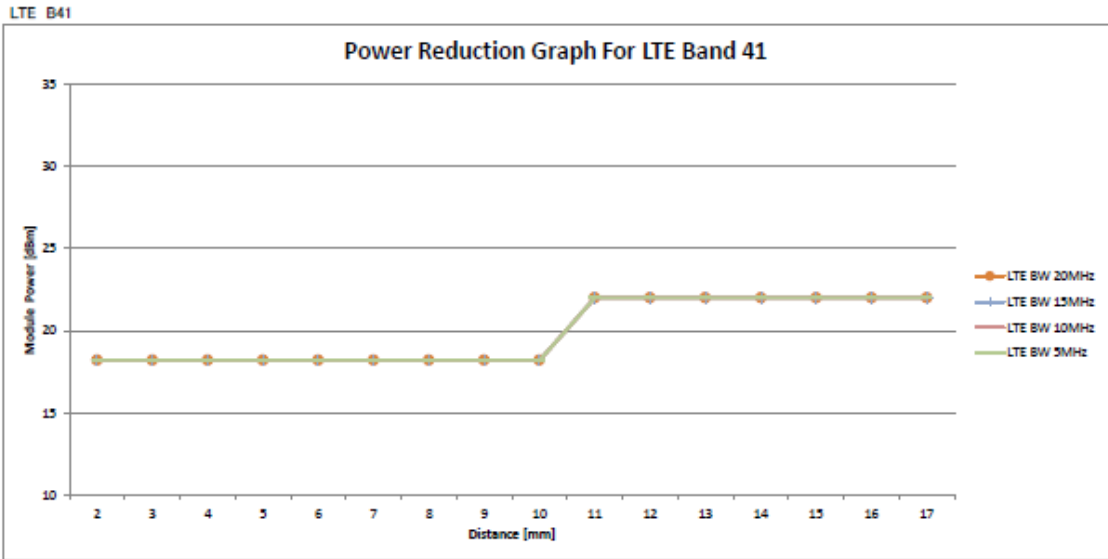
Coverage Step LTE Band 2																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 15MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 10MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 5MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 3MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23
LTE BW 1.4MHz	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	23	23	23	23	23	23	23



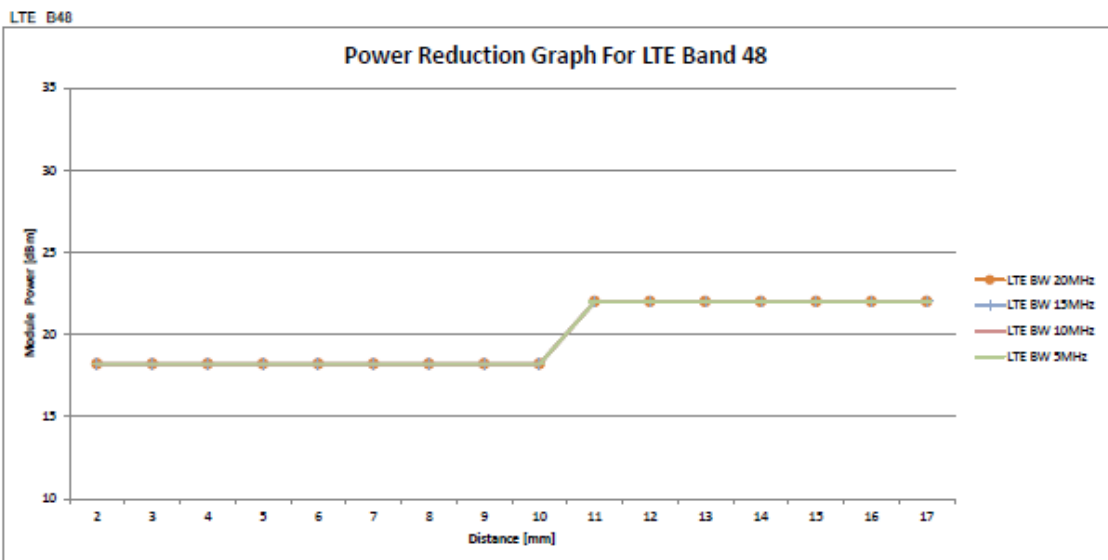
Coverage Step LTE Band 25																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 15MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 10MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 5MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 3MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23
LTE BW 1.4MHz	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23	23	23	23	23	23	23



Coverage Step LTE Band 7																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 15MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 10MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22
LTE BW 5MHz	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	22	22	22	22	22	22	22



Coverage Step LTE Band 41																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 15MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 10MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22
LTE BW 5MHz	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	22	22	22	22	22	22	22



Coverage Step LTE Band 48																
Distance	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
DPR	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
LTE BW 20MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 15MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 10MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19
LTE BW 5MHz	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	19	19	19	19	19	19	19

7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

7.1. Standalone SAR Test Exclusion Considerations

Since the *Dedicated Host Approach* is applied, the standalone SAR test exclusion procedure in KDB 447498 § 4.3.1 (RSS-102 Issue 5 § 2.5.1) is applied in conjunction with KDB 616217 § 4.3 to determine the minimum test separation distance:

- When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- When the separation distance from the antenna to an adjacent edge is > 5 mm, the actual antenna-to-edge separation distance is applied to determine SAR test exclusion.

SAR Test Exclusion Calculations for WWAN

Tablet mode

Antennas < 50mm to adjacent edges

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)						Calculated Threshold Value					
			dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front
Full Power WWAN																
WWAN	WCDMA2	1907.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		38.5 -MEASURE-	8.5 -MEASURE-	> 50 mm	> 50 mm	18.2 -MEASURE-	
WWAN	WCDMA4	1752.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		36.9 -MEASURE-	8.1 -MEASURE-	> 50 mm	> 50 mm	17.5 -MEASURE-	
WWAN	WCDMA5	846.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		25.7 -MEASURE-	5.6 -MEASURE-	> 50 mm	> 50 mm	12.2 -MEASURE-	
WWAN	LTE2	1900	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		38.4 -MEASURE-	8.4 -MEASURE-	> 50 mm	> 50 mm	18.2 -MEASURE-	
WWAN	LTE4	1745	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		36.8 -MEASURE-	8.1 -MEASURE-	> 50 mm	> 50 mm	17.5 -MEASURE-	
WWAN	LTE5	844	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		25.6 -MEASURE-	5.6 -MEASURE-	> 50 mm	> 50 mm	12.1 -MEASURE-	
WWAN	LTE7	2560	23.0	200	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		35.6 -MEASURE-	7.8 -MEASURE-	> 50 mm	> 50 mm	16.8 -MEASURE-	
WWAN	LTE12	711	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		23.5 -MEASURE-	5.2 -MEASURE-	> 50 mm	> 50 mm	11.1 -MEASURE-	
WWAN	LTE13	782	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		24.7 -MEASURE-	5.4 -MEASURE-	> 50 mm	> 50 mm	11.7 -MEASURE-	
WWAN	LTE14	798	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		24.9 -MEASURE-	5.5 -MEASURE-	> 50 mm	> 50 mm	11.8 -MEASURE-	
WWAN	LTE26	841.5	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		25.6 -MEASURE-	5.6 -MEASURE-	> 50 mm	> 50 mm	12.1 -MEASURE-	
WWAN	LTE41	2680	23.0	200	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		36.4 -MEASURE-	8 -MEASURE-	> 50 mm	> 50 mm	17.2 -MEASURE-	
WWAN	LTE48	3690	20.0	100	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		21.3 -MEASURE-	4.7 -MEASURE-	> 50 mm	> 50 mm	10.1 -MEASURE-	
WWAN	LTE66	1780	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		37.2 -MEASURE-	8.2 -MEASURE-	> 50 mm	> 50 mm	17.6 -MEASURE-	
Reduction Power WWAN																
WWAN	WCDMA2	1907.6	19.3	85	7.6				1.7		14.7 -MEASURE-				23.5 -MEASURE-	
WWAN	WCDMA4	1752.6	18.3	68	7.6				1.7		11.3 -MEASURE-				18 -MEASURE-	
WWAN	WCDMA5	846.6	17.9	62	7.6				1.7		7.1 -MEASURE-				11.4 -MEASURE-	
WWAN	LTE2	1900	19.4	87	7.6				1.7		15 -MEASURE-				24 -MEASURE-	
WWAN	LTE4	1745	18.6	72	7.6				1.7		11.9 -MEASURE-				19 -MEASURE-	
WWAN	LTE5	844	18.7	74	7.6				1.7		8.5 -MEASURE-				13.6 -MEASURE-	
WWAN	LTE7	2560	17.9	62	7.6				1.7		12.4 -MEASURE-				19.8 -MEASURE-	
WWAN	LTE12	711	20.4	110	7.6				1.7		11.6 -MEASURE-				18.6 -MEASURE-	
WWAN	LTE13	782	19.2	83	7.6				1.7		9.2 -MEASURE-				14.7 -MEASURE-	
WWAN	LTE14	798	19.2	83	7.6				1.7		9.3 -MEASURE-				14.8 -MEASURE-	
WWAN	LTE26	841.5	19.1	81	7.6				1.7		9.3 -MEASURE-				14.9 -MEASURE-	
WWAN	LTE41	2680	19.2	83	7.6				1.7		17 -MEASURE-				27.2 -MEASURE-	
WWAN	LTE48	3690	11.8	15	7.6				1.7		3.6 -MEASURE-				5.8 -MEASURE-	
WWAN	LTE66	1780	18.8	76	7.6				1.7		12.7 -MEASURE-				20.3 -MEASURE-	

Laptop mode

Antennas < 50mm to adjacent edges

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)	Calculated Threshold Value
			dBm	mW	Bottom	Bottom
Full Power WWAN						
WWAN	WCDMA2	1907.6	24.0	251	123.8	> 50 mm
WWAN	WCDMA4	1752.6	24.0	251	123.8	> 50 mm
WWAN	WCDMA5	846.6	24.0	251	123.8	> 50 mm
WWAN	LTE2	1900	24.0	251	123.8	> 50 mm
WWAN	LTE4	1745	24.0	251	123.8	> 50 mm
WWAN	LTE5	844	24.0	251	123.8	> 50 mm
WWAN	LTE7	2560	23.0	200	123.8	> 50 mm
WWAN	LTE12	711	24.0	251	123.8	> 50 mm
WWAN	LTE13	782	24.0	251	123.8	> 50 mm
WWAN	LTE14	798	24.0	251	123.8	> 50 mm
WWAN	LTE26	841.5	24.0	251	123.8	> 50 mm
WWAN	LTE41	2680	23.0	200	123.8	> 50 mm
WWAN	LTE48	3690	20.0	100	123.8	> 50 mm
WWAN	LTE66	1780	24.0	251	123.8	> 50 mm
Reduction Power WWAN						
WWAN	WCDMA2	1907.6	19.3	85		
WWAN	WCDMA4	1752.6	18.3	68		
WWAN	WCDMA5	846.6	17.9	62		
WWAN	LTE2	1900	19.4	87		
WWAN	LTE4	1745	18.6	72		
WWAN	LTE5	844	18.7	74		
WWAN	LTE7	2560	17.9	62		
WWAN	LTE12	711	20.4	110		
WWAN	LTE13	782	19.2	83		
WWAN	LTE14	798	19.2	83		
WWAN	LTE26	841.5	19.1	81		
WWAN	LTE41	2680	19.2	83		
WWAN	LTE48	3690	11.8	15		
WWAN	LTE66	1780	18.8	76		

Note(s):

According to KDB 447498, if the calculated threshold value is >3 then SAR testing is required.

1. When the separation of antenna to EUT's surfaces and edges are ≤ 50 mm, the separation distance used for the SAR exclusion calculations is 5 mm.(Edge1)
2. A number in the parenthesis is "(proximity sensor trigger distance – 1) mm" (shaded pink frame in above table). The separation distance used for the SAR exclusion calculations is 9 mm (Rear) and 19 mm (Edge4) (most conservative distance)
3. Based on KDB616217 D04, SAR evaluation for the front surface of tablet display screens are not necessary. (EUT isn't designed to require continuous operations with the hand(s) next to the antenna(s)).

Tablet mode

Antennas > 50mm to adjacent edges

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)						Calculated Threshold Value					
			dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front
Full Power WWAN																
WWAN	WCDMA2	1907.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2292.6 mW -EXEMPT-	429.6 mW -EXEMPT-	< 50 mm	
WWAN	WCDMA4	1752.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2297.3 mW -EXEMPT-	434.3 mW -EXEMPT-	< 50 mm	
WWAN	WCDMA5	846.6	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1395.7 mW -EXEMPT-	344.2 mW -EXEMPT-	< 50 mm	
WWAN	LTE2	1900	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2292.8 mW -EXEMPT-	429.8 mW -EXEMPT-	< 50 mm	
WWAN	LTE4	1745	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2297.6 mW -EXEMPT-	434.6 mW -EXEMPT-	< 50 mm	
WWAN	LTE5	844	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1392.1 mW -EXEMPT-	343.9 mW -EXEMPT-	< 50 mm	
WWAN	LTE7	2560	23.0	200	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2277.8 mW -EXEMPT-	414.8 mW -EXEMPT-	< 50 mm	
WWAN	LTE12	711	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1213.1 mW -EXEMPT-	330 mW -EXEMPT-	< 50 mm	
WWAN	LTE13	782	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1308.2 mW -EXEMPT-	337 mW -EXEMPT-	< 50 mm	
WWAN	LTE14	798	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1329.8 mW -EXEMPT-	338.7 mW -EXEMPT-	< 50 mm	
WWAN	LTE26	841.5	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	1388.7 mW -EXEMPT-	343.6 mW -EXEMPT-	< 50 mm	
WWAN	LTE41	2680	23.0	200	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2275.6 mW -EXEMPT-	412.6 mW -EXEMPT-	< 50 mm	
WWAN	LTE48	3690	20.0	100	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2262.1 mW -EXEMPT-	399.1 mW -EXEMPT-	< 50 mm	
WWAN	LTE66	1780	24.0	251	7.6 (9.00)	40.8	268.4	82.1	1.7 (19.00)		< 50 mm	< 50 mm	2296.4 mW -EXEMPT-	433.4 mW -EXEMPT-	< 50 mm	
Reduction Power WWAN																
WWAN	WCDMA2	1907.6	19.3	85	7.6				1.7		< 50 mm				< 50 mm	
WWAN	WCDMA4	1752.6	18.3	68	7.6				1.7		< 50 mm				< 50 mm	
WWAN	WCDMA5	846.6	17.9	62	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE2	1909.2	19.4	87	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE4	1754.2	18.6	72	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE5	848.2	18.7	74	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE7	2567.5	17.9	62	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE12	715.3	20.4	110	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE13	784.5	19.2	83	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE14	1914.3	19.2	83	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE26	1914.3	19.1	81	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE41	2680	19.2	83	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE48	3690	11.8	15	7.6				1.7		< 50 mm				< 50 mm	
WWAN	LTE66	2680	18.8	76	7.6				1.7		< 50 mm				< 50 mm	

Laptop mode

Antennas > 50mm to adjacent edges

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)	Calculated Threshold Value
			dBm	mW	Bottom	Bottom
Full Power WWAN						
WWAN	WCDMA2	1907.6	24.0	251	123.8	846.6 mW -EXEMPT-
WWAN	WCDMA4	1752.6	24.0	251	123.8	851.3 mW -EXEMPT-
WWAN	WCDMA5	846.6	24.0	251	123.8	579.6 mW -EXEMPT-
WWAN	LTE2	1900	24.0	251	123.8	846.8 mW -EXEMPT-
WWAN	LTE4	1745	24.0	251	123.8	851.6 mW -EXEMPT-
WWAN	LTE5	844	24.0	251	123.8	578.5 mW -EXEMPT-
WWAN	LTE7	2560	23.0	200	123.8	831.8 mW -EXEMPT-
WWAN	LTE12	711	24.0	251	123.8	527.7 mW -EXEMPT-
WWAN	LTE13	782	24.0	251	123.8	554.4 mW -EXEMPT-
WWAN	LTE14	798	24.0	251	123.8	560.5 mW -EXEMPT-
WWAN	LTE26	841.5	24.0	251	123.8	577.5 mW -EXEMPT-
WWAN	LTE41	2680	23.0	200	123.8	829.6 mW -EXEMPT-
WWAN	LTE48	3690	20.0	100	123.8	816.1 mW -EXEMPT-
WWAN	LTE66	1780	24.0	251	123.8	850.4 mW -EXEMPT-
Reduction Power WWAN						
WWAN	WCDMA2	1907.6	19.3	85		
WWAN	WCDMA4	1752.6	18.3	68		
WWAN	WCDMA5	846.6	17.9	62		
WWAN	LTE2	1909.2	19.4	87		
WWAN	LTE4	1754.2	18.6	72		
WWAN	LTE5	848.2	18.7	74		
WWAN	LTE7	2567.5	17.9	62		
WWAN	LTE12	715.3	20.4	110		
WWAN	LTE13	784.5	19.2	83		
WWAN	LTE14	1914.3	19.2	83		
WWAN	LTE26	1914.3	19.1	81		
WWAN	LTE41	2680	19.2	83		
WWAN	LTE48	3690	11.8	15		
WWAN	LTE66	2680	18.8	76		

Note(s):

According to KDB 447498, if the calculated Power threshold is less than the output power then SAR testing is required.

1. When the separation of antenna to EUT's surfaces and edges are ≤ 50 mm, "<50mm" displayed.
2. A number in the parenthesis is "(proximity sensor trigger distance – 1) mm" (shaded pink frame in above table). The separation distance used for the SAR exclusion calculations is 9 mm (Rear) and 19 mm (Edge4) (most conservative distance).
3. Based on KDB616217 D04, SAR evaluation for the front surface of tablet display screens are not necessary. (EUT isn't designed to require continuous operations with the hand(s) next to the antenna(s).)

7.2. Required Test Configurations

The table below identifies the standalone test configurations required for this device according to the findings in Section 7.1:

Test Configurations	Tablet							Laptop
	Rear	Rear tilt (Edge4 side)	Rear tilt (Edge1 side)	Edge 1	Edge 2	Edge 3	Edge 4	Bottom
				(Top Edge)	(Left Edge)	(Bottom Edge)	(Right Edge)	
W-CDMA Band 2 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
W-CDMA Band 2 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
W-CDMA Band 4 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
W-CDMA Band 4 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
W-CDMA Band 5 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
W-CDMA Band 5 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 2 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 2 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 4 Full Power *1	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 4 w/ Power Reduction *1	Yes	Yes	No	No	No	No	Yes	No
LTE Band 5 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 5 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 7 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 7 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 12 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 12 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 13 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 13 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 14 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 14 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 26 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 26 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 41 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 41 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 48 Full Power	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 48 w/ Power Reduction	Yes	Yes	No	No	No	No	Yes	No
LTE Band 66 Full Power *1	Yes	Yes	Yes	Yes	No	No	Yes	No
LTE Band 66 w/ Power Reduction *1	Yes	Yes	No	No	No	No	Yes	No

Note(s):

*1 Since LTE Band 66 has the same power as LTE Band 4 or higher and completely covers the frequency range of Band 4, we tested Band 66 as a representative and omitted the LTE B4 test.

*2 Edge 1 and Rear tilt (Edge 1 side) are out of range of the proximity sensor, so SAR evaluation in Power Reduction mode is not required. (Full Power mode only)

Yes = Testing is required.

No = Testing is not required.

SAR test of Rear tilt(Edge1 side) was measured for Section 12 Simultaneous transmission SAR test exclusion considerations.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized.

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

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

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

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

Dielectric Property Measurements Results:

DIELECTRIC PARAMETERS MEASUREMENT RESULTS													
Date	Ambient Temp. [deg.c]	Relative Humidity [%]	Liquid type	Liquid Temp. [deg.c]	Measured Frequency [MHz]	Target [σ]	Target [εr]	Measure [σ]	Measure [εr]	Deviation σ [%]	Deviation εr [%]	Limit [%]	Remark
2021/2/4	24.0	45.0	Body	23.3	800.0	0.97	55.3	0.97	54.7	0.4	-1.2	+5	
2021/2/4	24.0	45.0	Body	23.3	835.0	0.97	55.2	0.98	54.7	0.6	-1.0	+5	
2021/2/4	24.0	45.0	Body	23.3	850.0	0.99	55.2	0.98	54.6	-0.9	-1.0	+5	
2021/2/22	25.0	45.0	Body	23.8	1710.0	1.46	53.5	1.47	52.6	0.5	-1.7	+5	
2021/2/22	25.0	45.0	Body	23.8	1750.0	1.49	53.4	1.49	52.5	0.2	-1.7	+5	
2021/2/22	25.0	45.0	Body	23.8	1800.0	1.52	53.3	1.52	52.5	-0.3	-1.6	+5	
2021/2/26	23.0	45.0	Body	22.1	1710.0	1.46	53.5	1.46	52.6	-0.2	-1.8	+5	
2021/2/26	23.0	45.0	Body	22.1	1750.0	1.49	53.4	1.49	52.4	0.1	-1.9	+5	
2021/2/26	23.0	45.0	Body	22.1	1800.0	1.52	53.3	1.52	52.3	-0.1	-1.9	+5	
2021/3/4	22.5	50.0	Body	22.0	2500.0	2.02	52.6	2.08	50.2	3.0	-4.7	+5	
2021/3/4	22.5	50.0	Body	22.0	2600.0	2.16	52.5	2.15	50.1	-0.7	-4.6	+5	
2021/3/4	22.5	50.0	Body	22.0	2700.0	2.30	52.4	2.24	50.0	-2.8	-4.6	+5	
2021/3/8	22.5	50.0	Body	22.0	2500.0	2.02	52.6	2.09	50.6	3.4	-3.9	+5	
2021/3/8	22.5	50.0	Body	22.0	2600.0	2.16	52.5	2.16	50.5	-0.2	-3.8	+5	
2021/3/8	22.5	50.0	Body	22.0	2700.0	2.30	52.4	2.25	50.4	-2.5	-3.9	+5	
2021/3/11	22.5	50.0	Body	22.0	3500.0	3.31	51.3	3.17	53.4	-4.3	4.0	+5	
2021/3/11	22.5	50.0	Body	22.0	3550.0	3.37	51.3	3.24	53.4	-4.0	4.1	+5	
2021/3/11	22.5	50.0	Body	22.0	3700.0	3.55	51.1	3.40	53.1	-4.2	4.0	+5	
2021/3/15	23.0	45.0	Body	22.3	800.0	0.97	55.3	0.99	55.9	2.2	1.0	+5	
2021/3/15	23.0	45.0	Body	22.3	835.0	0.97	55.2	1.01	55.6	3.9	0.6	+5	
2021/3/15	23.0	45.0	Body	22.3	850.0	0.99	55.2	1.02	55.4	2.7	0.5	+5	
2021/3/17	23.5	45.0	Body	22.7	1840.0	1.52	53.3	1.45	53.2	-4.9	-0.2	+5	
2021/3/17	23.5	45.0	Body	22.7	1900.0	1.52	53.3	1.51	53.1	-0.5	-0.5	+5	
2021/3/17	23.5	45.0	Body	22.7	1960.0	1.52	53.3	1.58	52.8	4.2	-0.9	+5	
2021/3/17	22.5	50.0	Body	22.0	700.0	0.96	55.7	0.96	54.9	0.4	-1.5	+5	
2021/3/17	22.5	50.0	Body	22.0	750.0	0.96	55.5	0.98	54.9	2.2	-1.2	+5	
2021/3/17	22.5	50.0	Body	22.0	800.0	0.97	55.3	1.01	54.8	4.3	-1.0	+5	
2021/3/19	22.5	50.0	Body	22.0	1710.0	1.46	53.5	1.48	52.6	1.1	-1.8	+5	
2021/3/19	22.5	50.0	Body	22.0	1750.0	1.49	53.4	1.50	52.5	1.0	-1.7	+5	
2021/3/19	22.5	50.0	Body	22.0	1800.0	1.52	53.3	1.53	52.4	0.9	-1.7	+5	

8.2. System Check

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

System Performance Check Measurement Conditions:

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

System Check Results

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

Date Tested	Test Freq	Model,S/N	T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	
				Zoom Scan	Normalize to 1 W			
2021/2/4	835	D835,4d149	Body	1g	2.61	10.4	9.84	6.1
				10g	1.74	7.0	6.44	8.1
2021/2/22	1750	D1750,1089	Body	1g	9.24	37.0	36.64	0.9
				10g	4.92	19.68	19.48	1.0
2021/2/26	1750	D1750,1089	Body	1g	9.26	37.0	36.64	1.1
				10g	4.94	19.76	19.48	1.4
2021/3/4	2600	D2600,1030	Body	1g	13.80	55.2	54.80	0.7
				10g	6.09	24.36	24.24	0.5
2021/3/8	2600	D2600,1030	Body	1g	13.80	55.20	54.80	0.7
				10g	6.12	24.48	24.24	1.0
2021/3/11	3500	D3500,1052	Body	1g	6.41	64.10	64.20	-0.2
				10g	2.44	24.40	23.80	2.5
2021/3/11	3700	D3700V2,1078	Body	1g	6.31	63.10	62.90	0.3
				10g	2.30	23.00	22.40	2.7
2021/3/15	835	D835,4d149	Body	1g	2.54	10.2	9.84	3.3
				10g	1.65	6.60	6.44	2.5
2021/3/17	1900	D1900,5d169	Body	1g	10.30	41.2	39.48	4.4
				10g	5.41	21.64	20.88	3.6
2021/3/17	750	D750,1058	Body	1g	2.20	8.80	8.60	2.3
				10g	1.45	5.80	5.72	1.4
2021/3/19	1750	D1750,1089	Body	1g	9.42	37.68	36.64	2.8
				10g	5.00	20.00	19.48	2.7

9. Conducted Output Power Measurements

9.1. W-CDMA

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

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

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
W-CDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	11/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
MPR (dB)	0	0	0.5	0.5	
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

HSPA (HSDPA & HSUPA) Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in 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

Mode	HSPA					
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2 kbps RMC				
	HSDPA FRC	H-Set 1				
	HSUPA Test	HSPA				
	Power Control Algorithm	Algorithm 2				Algorithm 1
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	0
	β_{ec}	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	β_{ed}	1309/225	94/75	47/15	56/75	47/15
CM (dB)	1	3	2	3	1	
MPR (dB)	0	2	1	2	0	
HSDPA Specific Settings	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	A _{hs} = β_{hs}/β_c	30/15				
HSUPA Specific Settings	E-DPDCCH	6	8	8	5	0
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E-TFCIs	5	5	2	5	1
	Reference E-TFCI	11	11	11	11	67
	Reference E-TFCI PO	4	4	4	4	18
	Reference E-TFCI	67	67	92	67	67
	Reference E-TFCI PO	18	18	18	18	18
	Reference E-TFCI	71	71	71	71	71
	Reference E-TFCI PO	23	23	23	23	23
	Reference E-TFCI	75	75	75	75	75
	Reference E-TFCI PO	26	26	26	26	26
	Reference E-TFCI	81	81	81	81	81
	Reference E-TFCI PO	27	27	27	27	27
Maximum Channelization Codes	2xSF2				SF4	

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1

Table E.5.0: Levels for HSDPA connection setup

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

Call is set up as per 3GPP TS34.108 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	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.		

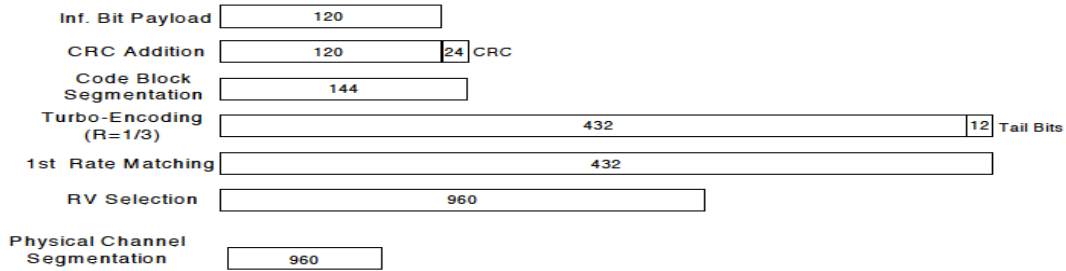


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

Mode	HSDPA	HSDPA	HSDPA	HSDPA	
Subtest	1	2	3	4	
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm2			
	β_c	2/15	11/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	β_d (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
HSDPA Specific Settings	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
CQI Repetition Factor	2				
A _{hs} = β_{hs}/β_c	30/15				

HSPA+

The following 1 Sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	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 $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ 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.

W-CDMA Band 2 Measured Results

R99	Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.00	19.30	23.01	18.92	
		9400	1880.0	24.00	19.30	23.02	18.89	
		9538	1907.6	24.00	19.30	23.04	18.91	

HSDPA	Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.00	18.30	21.92	17.86	
		9400	1880.0	23.00	18.30	21.94	17.83	
		9538	1907.6	23.00	18.30	21.97	17.89	
	Subtest 2	9262	1852.4	23.00	18.30	21.95	17.87	
		9400	1880.0	23.00	18.30	21.93	17.84	
		9538	1907.6	23.00	18.30	21.98	17.88	
	Subtest 3	9262	1852.4	23.00	18.30	21.43	17.37	
		9400	1880.0	23.00	18.30	21.48	17.37	
		9538	1907.6	23.00	18.30	21.50	17.38	
	Subtest 4	9262	1852.4	23.00	18.30	21.43	17.27	
		9400	1880.0	23.00	18.30	21.47	17.33	
		9538	1907.6	23.00	18.30	21.51	17.41	

DC-HSDPA	Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.00	18.30	21.92	17.85	
		9400	1880.0	23.00	18.30	21.95	17.83	
		9538	1907.6	23.00	18.30	21.98	17.88	
	Subtest 2	9262	1852.4	23.00	18.30	21.95	17.89	
		9400	1880.0	23.00	18.30	21.97	17.86	
		9538	1907.6	23.00	18.30	22.01	17.90	
	Subtest 3	9262	1852.4	23.00	18.30	21.41	17.40	
		9400	1880.0	23.00	18.30	21.49	17.36	
		9538	1907.6	23.00	18.30	21.51	17.41	
	Subtest 4	9262	1852.4	23.00	18.30	21.42	17.40	
		9400	1880.0	23.00	18.30	21.48	17.36	
		9538	1907.6	23.00	18.30	21.53	17.41	

HSUPA	Band	Mode	UL Ch No.	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	Avg Pwr (dBm)
					Full Power	Reduced Power	Full Power	Full Power
WCDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.00	18.30	21.71	17.81	
		9400	1880.0	23.00	18.30	21.83	17.84	
		9538	1907.6	23.00	18.30	21.90	17.78	
	Subtest 2	9262	1852.4	23.00	18.30	19.71	15.91	
		9400	1880.0	23.00	18.30	19.99	15.85	
		9538	1907.6	23.00	18.30	19.93	16.01	
	Subtest 3	9262	1852.4	23.00	18.30	20.74	16.81	
		9400	1880.0	23.00	18.30	20.86	16.81	
		9538	1907.6	23.00	18.30	20.85	16.91	
	Subtest 4	9262	1852.4	23.00	18.30	19.74	15.85	
		9400	1880.0	23.00	18.30	19.84	15.86	
		9538	1907.6	23.00	18.30	19.92	15.92	
	Subtest 5	9262	1852.4	23.00	18.30	21.40	17.70	
		9400	1880.0	23.00	18.30	21.70	17.70	
		9538	1907.6	23.00	18.30	21.90	17.70	

HSPA+	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 2	Subtest 1	9262	1852.4	23.00	18.30	21.46	17.47	
		9400	1880.0	23.00	18.30	21.48	17.42	
		9538	1907.6	23.00	18.30	21.52	17.49	

W-CDMA Band 4 Measured Results

R99	Band	Mode	UL Ch	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.00	18.30	22.85	18.03	
		1413	1732.6	24.00	18.30	22.84	18.08	
		1513	1752.6	24.00	18.30	22.87	18.02	

HSDPA	Band	Mode	UL Ch	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.00	17.30	21.79	16.97	
		1413	1732.6	23.00	17.30	21.84	17.01	
		1513	1752.6	23.00	17.30	21.77	16.99	
	Subtest 2	1312	1712.4	23.00	17.30	21.82	16.99	
		1413	1732.6	23.00	17.30	21.80	16.98	
		1513	1752.6	23.00	17.30	21.72	16.99	
	Subtest 3	1312	1712.4	23.00	17.30	21.28	16.48	
		1413	1732.6	23.00	17.30	21.35	16.51	
		1513	1752.6	23.00	17.30	21.24	16.46	
	Subtest 4	1312	1712.4	23.00	17.30	21.31	16.50	
		1413	1732.6	23.00	17.30	21.33	16.53	
		1513	1752.6	23.00	17.30	21.26	16.44	

DC-HSDPA	Band	Mode	UL Ch	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.00	17.30	22.00	16.98	
		1413	1732.6	23.00	17.30	22.04	17.03	
		1513	1752.6	23.00	17.30	21.99	17.01	
	Subtest 2	1312	1712.4	23.00	17.30	21.99	17.04	
		1413	1732.6	23.00	17.30	22.05	17.06	
		1513	1752.6	23.00	17.30	22.01	17.03	
	Subtest 3	1312	1712.4	23.00	17.30	21.51	16.52	
		1413	1732.6	23.00	17.30	21.56	16.58	
		1513	1752.6	23.00	17.30	21.51	16.51	
	Subtest 4	1312	1712.4	23.00	17.30	21.51	16.53	
		1413	1732.6	23.00	17.30	21.55	16.47	
		1513	1752.6	23.00	17.30	21.51	16.50	

HSUPA	Band	Mode	UL Ch	Freq.	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
WCDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.00	17.30	21.83	16.97	
		1413	1732.6	23.00	17.30	21.74	16.97	
		1513	1752.6	23.00	17.30	21.64	16.80	
	Subtest 2	1312	1712.4	23.00	17.30	19.74	15.03	
		1413	1732.6	23.00	17.30	19.72	15.02	
		1513	1752.6	23.00	17.30	19.63	14.80	
	Subtest 3	1312	1712.4	23.00	17.30	20.59	15.91	
		1413	1732.6	23.00	17.30	20.75	15.91	
		1513	1752.6	23.00	17.30	20.64	15.93	
	Subtest 4	1312	1712.4	23.00	17.30	19.72	14.93	
		1413	1732.6	23.00	17.30	19.76	14.96	
		1513	1752.6	23.00	17.30	19.70	14.92	
	Subtest 5	1312	1712.4	23.00	17.30	21.50	16.80	
		1413	1732.6	23.00	17.30	21.70	16.80	
		1513	1752.6	23.00	17.30	21.60	16.80	

HSPA+	Band	Mode	UL Ch	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 4	Subtest 1	1312	1712.4	23.00	17.30	21.46	16.59	
		1413	1732.6	23.00	17.30	21.51	16.60	
		1513	1752.6	23.00	17.30	21.59	16.54	

W-CDMA Band 5 Measured Results

R99	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.00	17.90	23.15	17.62	
		4183	836.6	24.00	17.90	23.22	17.75	
		4233	846.6	24.00	17.90	23.13	17.61	

HSDPA	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.00	16.90	21.98	16.60	
		4183	836.6	23.00	16.90	22.11	16.68	
		4233	846.6	23.00	16.90	22.00	16.56	
	Subtest 2	4132	826.4	23.00	16.90	22.08	16.63	
		4183	836.6	23.00	16.90	22.16	16.70	
		4233	846.6	23.00	16.90	22.03	16.59	
	Subtest 3	4132	826.4	23.00	16.90	21.53	16.03	
		4183	836.6	23.00	16.90	21.60	16.20	
		4233	846.6	23.00	16.90	21.55	16.09	
	Subtest 4	4132	826.4	23.00	16.90	21.52	16.12	
		4183	836.6	23.00	16.90	21.65	16.21	
		4233	846.6	23.00	16.90	21.52	16.01	

DC-HSDPA	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.00	16.90	21.95	16.59	
		4183	836.6	23.00	16.90	22.07	16.71	
		4233	846.6	23.00	16.90	21.97	16.52	
	Subtest 2	4132	826.4	23.00	16.90	21.99	16.63	
		4183	836.6	23.00	16.90	22.14	16.60	
		4233	846.6	23.00	16.90	21.97	16.61	
	Subtest 3	4132	826.4	23.00	16.90	21.54	16.14	
		4183	836.6	23.00	16.90	21.62	16.22	
		4233	846.6	23.00	16.90	21.56	16.08	
	Subtest 4	4132	826.4	23.00	16.90	21.55	16.08	
		4183	836.6	23.00	16.90	21.65	16.22	
		4233	846.6	23.00	16.90	21.54	16.09	

HSUPA	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
WCDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.00	16.90	21.97	16.57	
		4183	836.6	23.00	16.90	22.03	16.55	
		4233	846.6	23.00	16.90	21.90	16.41	
	Subtest 2	4132	826.4	23.00	16.90	19.93	14.55	
		4183	836.6	23.00	16.90	20.11	14.43	
		4233	846.6	23.00	16.90	19.91	14.43	
	Subtest 3	4132	826.4	23.00	16.90	20.94	15.53	
		4183	836.6	23.00	16.90	21.02	15.50	
		4233	846.6	23.00	16.90	20.90	15.44	
	Subtest 4	4132	826.4	23.00	16.90	19.86	14.61	
		4183	836.6	23.00	16.90	19.99	14.36	
		4233	846.6	23.00	16.90	19.88	14.45	
	Subtest 5	4132	826.4	23.00	16.90	21.93	16.53	
		4183	836.6	23.00	16.90	21.94	16.57	
		4233	846.6	23.00	16.90	21.83	16.46	

HSPA+	Band	Mode	UL Ch No.	Freq. (MHz)	Tune-up Upper Power(dBm)		Avg Pwr (dBm)	
					Full Power	Reduced Power	Full Power	Reduced Power
W-CDMA (UMTS) Band 5	Subtest 1	4132	826.4	23.00	16.90	21.57	16.16	
		4183	836.6	23.00	16.90	21.53	16.26	
		4233	846.6	23.00	16.90	21.44	16.15	

9.2. LTE

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

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

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

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

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

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

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36, 66, 70	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
NS_04	6.6.2.2.2, 6.6.3.3.19	41	5, 10, 15, 20	Table 6.2.4-4, Table 6.2.4-4a	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50 (NOTE 1)	≤ 1 (NOTE 1)
			15, 20	Table 6.2.4-18 (NOTE 2)	
		65 (NOTE 3)	10,15,20	≥ 50	≤ 1 (NOTE 1)
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5, 10, 15	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4-10	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5	≥ 2	≤ 1
			10, 15, 20	≥ 1	≤ 4
NS_19	6.6.3.3.12	44	10, 15, 20	Table 6.2.4-14	
NS_20	6.2.2	23	5, 10, 15, 20	Table 6.2.4-15	
	6.6.2.2.1				
NS_21	6.6.3.3.14	30	5, 10	Table 6.2.4-16	
	6.6.2.2.1				
NS_22	6.6.3.3.16	42, 43	5, 10, 15, 20	Table 6.2.4-17	
NS_23	6.6.3.3.17	42, 43	5, 10, 15, 20	N/A	
NS_24	6.6.3.3.20	65 (NOTE 4)	5, 10, 15, 20	Table 6.2.4-19	
NS_25	6.6.3.3.21	65 (NOTE 4)	5, 10, 15, 20	Table 6.2.4-20	
NS_26	6.6.3.3.22	68	10, 15	Table 6.2.4-21	
NS_27	6.6.2.2.5,	48	5, 10, 15, 20	Table 6.2.4-22	
	6.6.3.3.23				
NS_28	6.2.2A,	46 (NOTE 5)	20	Table 6.2.4-23	
	6.6.3.3.24				
NS_29	6.2.2A,	46 (NOTE 5)	20	Table 6.2.4-24	
	6.6.2.3.1a,				
NS_30	6.6.3.3.25	46 (NOTE 5)	20	Table 6.2.4-25	
	6.2.2A,				
NS_31	6.6.3.3.26	46 (NOTE 5)	20	Table 6.2.4-26	
	6.2.2A,				
NS_32	-	-	-	-	-

NOTE 1: Applicable when the lower edge of the assigned E-UTRA UL channel bandwidth frequency is larger than or equal to the upper edge of PHS band (1915.7 MHz) + 4 MHz + the channel BW assigned, where channel BW is as defined in subclause 5.6. A-MPR for

LTE Band 2 Measured Results(Full)

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
20	18700	1860	QPSK	1	0	0	0	24.0	22.68				
				1	49	0	0	24.0	22.57				
				1	99	0	0	24.0	22.44				
				50	0	1	1	23.0	21.66				
				50	24	1	1	23.0	21.59				
				50	49	1	1	23.0	21.57				
			16QAM	100	0	1	1	23.0	21.57				
				1	0	1	1	23.0	22.01				
				1	49	1	1	23.0	21.91				
				1	99	1	1	23.0	21.83				
				50	0	2	2	22.0	20.64				
				50	24	2	2	22.0	20.61				
			64QAM	50	49	2	2	22.0	20.61				
				100	0	2	2	22.0	20.62				
				1	0	2	2	22.0	20.85				
				1	49	2	2	22.0	20.72				
				1	99	2	2	22.0	20.65				
				50	0	3	3	21.0	19.68				
			18900	1880	1880	QPSK	50	24	3	3	21.0	19.60	
							50	49	3	3	21.0	19.60	
							100	0	3	3	21.0	19.64	
	1	0					0	0	24.0	22.56			
	1	49					0	0	24.0	22.45			
	1	99					0	0	24.0	22.36			
	16QAM	50				0	1	1	23.0	21.57			
		50				24	1	1	23.0	21.54			
		50				49	1	1	23.0	21.58			
		100				0	1	1	23.0	21.52			
		1				0	1	1	23.0	21.83			
		1				49	1	1	23.0	21.69			
	64QAM	1				99	1	1	23.0	21.57			
		50				0	2	2	22.0	20.60			
		50				24	2	2	22.0	20.57			
		50				49	2	2	22.0	20.60			
		100				0	2	2	22.0	20.55			
		1				0	2	2	22.0	20.45			
	19100	1900				1900	QPSK	1	49	2	2	22.0	20.34
								1	99	2	2	22.0	20.25
								50	0	3	3	21.0	19.56
			50	24	3			3	21.0	19.51			
			50	49	3			3	21.0	19.53			
			100	0	3			3	21.0	19.57			
			16QAM	1	0		0	0	24.0	22.87			
				1	49		0	0	24.0	22.71			
				1	99		0	0	24.0	22.75			
50				0	1		1	23.0	21.77				
50				24	1		1	23.0	21.71				
50				49	1		1	23.0	21.74				
64QAM			100	0	1		1	23.0	21.71				
			1	0	1		1	23.0	22.18				
			1	49	1		1	23.0	21.98				
			1	99	1		1	23.0	22.06				
			50	0	2		2	22.0	20.75				
			50	24	2		2	22.0	20.68				
64QAM			50	49	2		2	22.0	20.73				
			100	0	2		2	22.0	20.72				
			1	0	2		2	22.0	20.86				
	1	49	2	2	22.0	20.70							
	1	99	2	2	22.0	20.75							
	50	0	3	3	21.0	19.81							
	50	24	3	3	21.0	19.77							
	50	49	3	3	21.0	19.78							
	100	0	3	3	21.0	19.79							

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
15	18675	1857.5	QPSK	1	0	0	0	24.0	22.71				
				1	37	0	0	24.0	22.58				
				1	74	0	0	24.0	22.56				
				36	0	1	1	23.0	21.65				
				36	19	1	1	23.0	21.59				
				36	39	1	1	23.0	21.54				
				75	0	1	1	23.0	21.59				
			16QAM	1	0	1	1	23.0	21.85				
				1	37	1	1	23.0	21.72				
				1	74	1	1	23.0	21.69				
				36	0	2	2	22.0	20.67				
				36	19	2	2	22.0	20.62				
				36	39	2	2	22.0	20.58				
				75	0	2	2	22.0	20.62				
			64QAM	1	0	2	2	22.0	21.18				
				1	37	2	2	22.0	21.06				
				1	74	2	2	22.0	21.10				
				36	0	3	3	21.0	19.68				
				36	19	3	3	21.0	19.66				
				36	39	3	3	21.0	19.59				
				75	0	3	3	21.0	19.57				
			18900	1880	1880	QPSK	1	0	0	0	24.0	22.68	
							1	37	0	0	24.0	22.49	
							1	74	0	0	24.0	22.59	
							36	0	1	1	23.0	21.60	
							36	19	1	1	23.0	21.55	
							36	39	1	1	23.0	21.57	
							75	0	1	1	23.0	21.48	
						16QAM	1	0	1	1	23.0	21.90	
							1	37	1	1	23.0	21.74	
	1	74					1	1	23.0	21.83			
	36	0					2	2	22.0	20.57			
	36	19					2	2	22.0	20.58			
	36	39					2	2	22.0	20.62			
	75	0					2	2	22.0	20.54			
	64QAM	1				0	2	2	22.0	20.97			
		1				37	2	2	22.0	20.87			
		1				74	2	2	22.0	20.94			
		36				0	3	3	21.0	19.56			
		36				19	3	3	21.0	19.52			
		36				39	3	3	21.0	19.54			
		75				0	3	3	21.0	19.55			
	19125	1902.5				1902.5	QPSK	1	0	0	0	24.0	22.95
								1	37	0	0	24.0	22.70
								1	74	0	0	24.0	22.74
36								0	1	1	23.0	21.73	
36								19	1	1	23.0	21.74	
36								39	1	1	23.0	21.76	
75								0	1	1	23.0	21.71	
16QAM							1	0	1	1	23.0	22.09	
							1	37	1	1	23.0	21.94	
			1	74	1		1	23.0	21.96				
			36	0	2		2	22.0	20.80				
			36	19	2		2	22.0	20.73				
			36	39	2		2	22.0	20.74				
			75	0	2		2	22.0	20.79				
64QAM			1	0	2		2	22.0	21.24				
			1	37	2		2	22.0	21.01				
			1	74	2		2	22.0	21.21				
			36	0	3		3	21.0	19.83				
			36	19	3		3	21.0	19.77				
			36	39	3		3	21.0	19.83				
			75	0	3		3	21.0	19.82				

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
10	18650	1855	QPSK	1	0	0	0	24.0	22.60				
				1	24	0	0	24.0	22.52				
				1	49	0	0	24.0	22.51				
				25	0	1	1	23.0	21.60				
				25	12	1	1	23.0	21.56				
				25	24	1	1	23.0	21.55				
			16QAM	50	0	1	1	23.0	21.55				
				1	0	1	1	23.0	21.82				
				1	24	1	1	23.0	21.78				
				1	49	1	1	23.0	21.74				
				25	0	2	2	22.0	20.59				
				25	12	2	2	22.0	20.60				
			64QAM	25	24	2	2	22.0	20.59				
				50	0	2	2	22.0	20.55				
				1	0	2	2	22.0	20.94				
				1	24	2	2	22.0	20.89				
				1	49	2	2	22.0	20.86				
				25	0	3	3	21.0	19.61				
			18900	1880	1880	QPSK	25	12	3	3	21.0	19.57	
							25	24	3	3	21.0	19.55	
							50	0	3	3	21.0	19.60	
							1	0	0	0	24.0	22.44	
							1	24	0	0	24.0	22.33	
							1	49	0	0	24.0	22.43	
						16QAM	25	0	1	1	23.0	21.56	
							25	12	1	1	23.0	21.51	
							25	24	1	1	23.0	21.58	
							50	0	1	1	23.0	21.47	
							1	0	1	1	23.0	21.64	
							1	24	1	1	23.0	21.63	
	64QAM	1				49	1	1	23.0	21.68			
		25				0	2	2	22.0	20.55			
		25				12	2	2	22.0	20.55			
		25				24	2	2	22.0	20.58			
		50				0	2	2	22.0	20.52			
		1				0	2	2	22.0	20.93			
	19150	1905				1905	QPSK	1	24	2	2	22.0	20.88
								1	49	2	2	22.0	20.93
								25	0	3	3	21.0	19.58
								25	12	3	3	21.0	19.56
								25	24	3	3	21.0	19.62
								50	0	3	3	21.0	19.55
							16QAM	1	0	0	0	24.0	22.50
								1	24	0	0	24.0	22.49
								1	49	0	0	24.0	22.52
25								0	1	1	23.0	21.60	
25								12	1	1	23.0	21.65	
25								24	1	1	23.0	21.64	
64QAM			50	0	1		1	23.0	21.64				
			1	0	1		1	23.0	21.75				
			1	24	1		1	23.0	21.78				
			1	49	1		1	23.0	21.72				
			25	0	2		2	22.0	20.59				
			25	12	2		2	22.0	20.67				
64QAM			25	24	2		2	22.0	20.64				
			50	0	2		2	22.0	20.66				
			1	0	2		2	22.0	21.02				
			1	24	2		2	22.0	21.02				
			1	49	2		2	22.0	20.98				
			25	0	3		3	21.0	19.61				
			25	12	3		3	21.0	19.67				
			25	24	3		3	21.0	19.64				
			50	0	3		3	21.0	19.70				

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	18625	1852.5	QPSK	1	0	0	0	24.0	22.52			
				1	12	0	0	24.0	22.46			
				1	24	0	0	24.0	22.45			
				12	0	1	1	23.0	21.53			
				12	6	1	1	23.0	21.55			
				12	11	1	1	23.0	21.54			
			25	0	1	1	23.0	21.54				
			16QAM	1	0	1	1	23.0	21.74			
				1	12	1	1	23.0	21.74			
				1	24	1	1	23.0	21.74			
				12	0	2	2	22.0	20.62			
				12	6	2	2	22.0	20.64			
				12	11	2	2	22.0	20.61			
			64QAM	25	0	2	2	22.0	20.56			
				1	0	2	2	22.0	20.79			
				1	12	2	2	22.0	20.75			
				1	24	2	2	22.0	20.75			
				12	0	3	3	21.0	19.64			
				12	6	3	3	21.0	19.65			
			18900	1880	1880	QPSK	12	11	3	3	21.0	19.59
							25	0	3	3	21.0	19.58
							1	0	0	0	24.0	22.51
							1	12	0	0	24.0	22.47
							1	24	0	0	24.0	22.56
							12	0	1	1	23.0	21.50
						16QAM	12	6	1	1	23.0	21.47
							12	11	1	1	23.0	21.49
	25	0					1	1	23.0	21.49		
	1	0	1	1	23.0		21.88					
	1	12	1	1	23.0		21.83					
	1	24	1	1	23.0		21.91					
	64QAM	12	0	2	2	22.0	20.60					
		12	6	2	2	22.0	20.63					
		12	11	2	2	22.0	20.60					
		25	0	2	2	22.0	20.50					
		1	0	2	2	22.0	20.65					
		1	12	2	2	22.0	20.67					
	19175	1907.5	1907.5	QPSK	1	24	2	2	22.0	20.72		
					12	0	3	3	21.0	19.68		
					12	6	3	3	21.0	19.65		
					12	11	3	3	21.0	19.64		
					25	0	3	3	21.0	19.55		
					1	0	0	0	24.0	22.62		
				16QAM	1	12	0	0	24.0	22.53		
					1	24	0	0	24.0	22.55		
12					0	1	1	23.0	21.65			
12					6	1	1	23.0	21.64			
12					11	1	1	23.0	21.61			
25					0	1	1	23.0	21.62			
64QAM				1	0	1	1	23.0	21.86			
				1	12	1	1	23.0	21.82			
				1	24	1	1	23.0	21.78			
				12	0	2	2	22.0	20.70			
				12	6	2	2	22.0	20.68			
				12	11	2	2	22.0	20.66			
64QAM	25	0	2	2	22.0	20.68						
	1	0	2	2	22.0	20.86						
	1	12	2	2	22.0	20.79						
	1	24	2	2	22.0	20.79						
	12	0	3	3	21.0	19.72						
	12	6	3	3	21.0	19.73						
12	11	3	3	21.0	19.67							
25	0	3	3	21.0	19.69							

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)					
3	18615	1851.5	QPSK	1	0	0	0	24.0	22.44					
				1	7	0	0	24.0	22.53					
				1	14	0	0	24.0	22.42					
				8	0	1	1	23.0	21.54					
				8	4	1	1	23.0	21.57					
				8	7	1	1	23.0	21.55					
			15	0	1	1	23.0	21.56						
			16QAM	1	0	1	1	23.0	21.64					
				1	7	1	1	23.0	21.77					
				1	14	1	1	23.0	21.63					
				8	0	2	2	22.0	20.49					
				8	4	2	2	22.0	20.51					
				8	7	2	2	22.0	20.48					
			64QAM	15	0	2	2	22.0	20.50					
				1	0	2	2	22.0	20.94					
				1	7	2	2	22.0	20.95					
				1	14	2	2	22.0	20.88					
				8	0	3	3	21.0	19.66					
				8	4	3	3	21.0	19.68					
			18900	1880	1880	QPSK	8	7	3	3	21.0	19.66		
							15	0	3	3	21.0	19.57		
							16QAM	1	0	1	1	23.0	21.71	
								1	7	1	1	23.0	21.86	
								1	14	1	1	23.0	21.65	
								8	0	2	2	22.0	20.54	
						8		4	2	2	22.0	20.56		
						8		7	2	2	22.0	20.50		
	64QAM	15				0	2	2	22.0	20.42				
		1				0	2	2	22.0	20.71				
		1				7	2	2	22.0	20.88				
		1				14	2	2	22.0	20.70				
		8				0	3	3	21.0	19.44				
		8				4	3	3	21.0	19.43				
	19185	1908.5				1908.5	QPSK	8	7	3	3	21.0	19.42	
								15	0	3	3	21.0	19.44	
								16QAM	1	0	1	1	23.0	21.71
									1	7	1	1	23.0	21.81
									1	14	1	1	23.0	21.64
									8	0	2	2	22.0	20.57
							8		4	2	2	22.0	20.58	
							8		7	2	2	22.0	20.54	
							64QAM	15	0	2	2	22.0	20.59	
								1	0	2	2	22.0	20.99	
								1	7	2	2	22.0	20.99	
								1	14	2	2	22.0	20.91	
8								0	3	3	21.0	19.71		
8			4	3	3			21.0	19.75					
QPSK			8	7	3		3	21.0	19.68					
			15	0	3		3	21.0	19.66					

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
1.4	18607	1850.7	QPSK	1	0	0	0	24.0	22.44			
				1	2	0	0	24.0	22.48			
				1	5	0	0	24.0	22.41			
				3	0	0	0	24.0	22.49			
				3	1	0	0	24.0	22.51			
				3	3	0	0	24.0	22.44			
			16QAM	6	0	1	1	23.0	21.45			
				1	0	1	1	23.0	21.48			
				1	2	1	1	23.0	21.56			
				1	5	1	1	23.0	21.47			
				3	0	1	1	23.0	21.41			
				3	1	1	1	23.0	21.44			
			64QAM	3	3	1	1	23.0	21.36			
				6	0	2	2	22.0	20.53			
				1	0	2	2	22.0	20.80			
				1	2	2	2	22.0	20.85			
				1	5	2	2	22.0	20.78			
				3	0	2	2	22.0	20.57			
			18900	1880	1880	QPSK	3	1	2	2	22.0	20.62
							3	3	2	2	22.0	20.56
							6	0	3	3	21.0	19.58
	1	0					0	0	24.0	22.32		
	1	2					0	0	24.0	22.38		
	1	5					0	0	24.0	22.30		
	16QAM	3				0	0	0	24.0	22.42		
		3				1	0	0	24.0	22.44		
		3				3	0	0	24.0	22.37		
		6				0	1	1	23.0	21.39		
		1				0	1	1	23.0	21.62		
		1				2	1	1	23.0	21.67		
	64QAM	1		5	1	1	23.0	21.61				
		3		0	1	1	23.0	21.51				
		3		1	1	1	23.0	21.52				
		3		3	1	1	23.0	21.48				
		6		0	2	2	22.0	20.48				
		6		0	2	2	22.0	20.48				
	19193	1909.3		1909.3	QPSK	1	0	2	2	22.0	20.62	
						1	2	2	2	22.0	20.74	
						1	5	2	2	22.0	20.59	
			3			0	2	2	22.0	20.34		
			3			1	2	2	22.0	20.37		
			3			3	2	2	22.0	20.34		
16QAM			6		0	3	3	21.0	19.28			
			1		0	1	1	23.0	21.61			
			1		2	1	1	23.0	21.72			
		1	5		1	1	23.0	21.58				
		3	0		1	1	23.0	21.69				
		3	1		1	1	23.0	21.73				
64QAM		3	3		1	1	23.0	21.67				
		6	0		2	2	22.0	20.53				
		1	0		2	2	22.0	20.85				
		1	2		2	2	22.0	20.97				
		1	5		2	2	22.0	20.86				
		3	0		2	2	22.0	20.54				
						3	1	2	2	22.0	20.59	
	3			3		2	2	22.0	20.52			
	6			0		3	3	21.0	19.65			
	6			0		3	3	21.0	19.65			

LTE Band 2 Measured Results (Reduction)

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
20	18700	1860	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.33				
				1	49			19.4	18.21				
				1	99			19.4	18.16				
				50	0			19.4	18.27				
				50	24			19.4	18.26				
				50	49			19.4	18.24				
			100	0	19.4			18.23					
			16QAM	1	0			19.4	18.64				
				1	49			19.4	18.55				
				1	99			19.4	18.55				
				50	0			19.4	18.32				
				50	24			19.4	18.31				
				50	49			19.4	18.30				
			64QAM	100	0			19.4	18.29				
				1	0			19.4	18.56				
				1	49			19.4	18.45				
				1	99			19.4	18.38				
				50	0			19.4	18.40				
				50	24			19.4	18.32				
			18900	1880	QPSK			50	49	19.4	18.32		
								50	0	19.4	18.27		
								50	24	19.4	18.24		
								50	49	19.4	18.32		
								100	0	19.4	18.26		
	100	0						19.4	18.26				
	16QAM	1			0			19.4	18.65				
		1			49			19.4	18.54				
		1			99			19.4	18.43				
		50			0			19.4	18.28				
		50			24			19.4	18.25				
		50			49			19.4	18.33				
	64QAM	100	0	19.4	18.29								
		1	0	19.4	18.38								
		1	49	19.4	18.30								
		1	99	19.4	18.25								
		50	0	19.4	18.32								
		50	24	19.4	18.28								
	19100	1900	QPSK	50	49			19.4	18.37				
				50	0			19.4	18.35				
				50	24			19.4	18.59				
				50	49			19.4	18.41				
				100	0			19.4	18.51				
				100	0			19.4	18.51				
			16QAM	50	0			19.4	18.50				
				50	24			19.4	18.49				
				50	49			19.4	18.51				
				100	0			19.4	18.48				
				1	0			19.4	18.86				
1				49	19.4	18.71							
64QAM	1	99	19.4	18.83									
	50	0	19.4	18.51									
	50	24	19.4	18.47									
	50	49	19.4	18.51									
	100	0	19.4	18.48									
	100	0	19.4	18.48									
										1	0	19.4	18.66
										1	49	19.4	18.47
										1	99	19.4	18.58
										50	0	19.4	18.61
										50	24	19.4	18.54
50	49	19.4	18.58										
100	0	19.4	18.56										

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
15	18675	1857.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.38
				1	37			19.4	18.25
				1	74			19.4	18.24
				36	0			19.4	18.30
				36	19			19.4	18.26
				36	39			19.4	18.24
				75	0			19.4	18.29
			16QAM	1	0			19.4	18.53
				1	37			19.4	18.37
				1	74			19.4	18.40
				36	0			19.4	18.36
				36	19			19.4	18.32
				36	39			19.4	18.27
				75	0			19.4	18.30
			64QAM	1	0			19.4	18.87
				1	37			19.4	18.68
				1	74			19.4	18.69
				36	0			19.4	18.40
				36	19			19.4	18.36
				36	39			19.4	18.35
				75	0			19.4	18.28
	18900	1880	QPSK	1	0			19.4	18.41
				1	37			19.4	18.22
				1	74			19.4	18.30
				36	0			19.4	18.31
				36	19			19.4	18.24
				36	39			19.4	18.31
				75	0			19.4	18.25
			16QAM	1	0			19.4	18.50
				1	37			19.4	18.36
				1	74			19.4	18.46
				36	0			19.4	18.33
				36	19			19.4	18.29
				36	39			19.4	18.38
				75	0			19.4	18.21
			64QAM	1	0			19.4	18.84
				1	37			19.4	18.70
				1	74			19.4	18.78
				36	0			19.4	18.38
				36	19			19.4	18.35
				36	39			19.4	18.41
				75	0			19.4	18.27
	19125	1902.5	QPSK	1	0			19.4	18.55
				1	37			19.4	18.39
				1	74			19.4	18.50
				36	0			19.4	18.49
				36	19			19.4	18.48
				36	39			19.4	18.51
				75	0			19.4	18.45
			16QAM	1	0			19.4	18.70
				1	37			19.4	18.53
				1	74			19.4	18.64
				36	0			19.4	18.52
				36	19			19.4	18.49
36				39	19.4	18.57			
75				0	19.4	18.43			
64QAM			1	0	19.4	18.96			
			1	37	19.4	18.87			
			1	74	19.4	18.96			
			36	0	19.4	18.59			
			36	19	19.4	18.51			
			36	39	19.4	18.59			
			75	0	19.4	18.48			

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	18650	1855	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.35		
				1	24			19.4	18.26		
				1	49			19.4	18.23		
				25	0			19.4	18.26		
				25	12			19.4	18.25		
				25	24			19.4	18.22		
			16QAM	50	0			19.4	18.25		
				1	0			19.4	18.54		
				1	24			19.4	18.49		
				1	49			19.4	18.44		
				25	0			19.4	18.29		
				25	12			19.4	18.28		
			64QAM	25	24			19.4	18.26		
				50	0			19.4	18.29		
				1	0			19.4	18.66		
				1	24			19.4	18.66		
				1	49			19.4	18.64		
				25	0			19.4	18.31		
			18900	1880	QPSK			25	12	19.4	18.34
								25	24	19.4	18.27
								50	0	19.4	18.31
								1	0	19.4	18.17
								1	24	19.4	18.13
								1	49	19.4	18.22
	16QAM	25			0			19.4	18.25		
		25			12			19.4	18.24		
		25			24			19.4	18.31		
		50			0			19.4	18.23		
		1			0			19.4	18.46		
		1			24			19.4	18.43		
	64QAM	1			49			19.4	18.49		
		25			0			19.4	18.27		
		25			12			19.4	18.24		
		25			24			19.4	18.35		
		50			0			19.4	18.25		
		1			0			19.4	18.61		
	19150	1905			QPSK			1	24	19.4	18.58
								1	49	19.4	18.69
								25	0	19.4	18.30
								25	12	19.4	18.30
								25	24	19.4	18.38
								50	0	19.4	18.29
			16QAM	1	0			19.4	18.31		
				1	24			19.4	18.32		
				1	49			19.4	18.34		
				25	0			19.4	18.37		
				25	12			19.4	18.43		
				25	24			19.4	18.42		
64QAM			50	0	19.4	18.42					
			1	0	19.4	18.61					
			1	24	19.4	18.61					
			1	49	19.4	18.58					
			25	0	19.4	18.36					
			25	12	19.4	18.46					
64QAM			25	24	19.4	18.44					
			50	0	19.4	18.44					
			1	0	19.4	18.73					
			1	24	19.4	18.75					
			1	49	19.4	18.80					
			25	0	19.4	18.42					
	25	12	19.4	18.48							
	25	24	19.4	18.46							
	50	0	19.4	18.51							

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
5	18625	1852.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.27		
				1	12			19.4	18.20		
				1	24			19.4	18.21		
				12	0			19.4	18.25		
				12	6			19.4	18.27		
				12	11			19.4	18.24		
			16QAM	25	0			19.4	18.25		
				1	0			19.4	18.51		
				1	12			19.4	18.50		
				1	24			19.4	18.47		
				12	0			19.4	18.32		
				12	6			19.4	18.34		
			64QAM	12	11			19.4	18.30		
				25	0			19.4	18.27		
				1	0			19.4	18.55		
				1	12			19.4	18.53		
				1	24			19.4	18.51		
				12	0			19.4	18.40		
			18900	1880	QPSK			12	6	19.4	18.40
								12	11	19.4	18.40
								12	6	19.4	18.40
								12	11	19.4	18.33
								25	0	19.4	18.36
								1	0	19.4	18.22
	16QAM	1			12			19.4	18.18		
		1			24			19.4	18.27		
		12			0			19.4	18.21		
		12			6			19.4	18.25		
		12			11			19.4	18.24		
		25			0			19.4	18.23		
	64QAM	1			0			19.4	18.46		
		1			12			19.4	18.46		
		1			24			19.4	18.55		
		12			0			19.4	18.28		
		12			6			19.4	18.28		
		12			11			19.4	18.26		
	19175	1907.5			QPSK			25	0	19.4	18.23
								1	0	19.4	18.51
								1	12	19.4	18.47
								1	24	19.4	18.58
								12	0	19.4	18.33
								12	6	19.4	18.37
			16QAM	12	11			19.4	18.31		
				25	0			19.4	18.32		
				1	0			19.4	18.42		
				1	12			19.4	18.35		
				1	24			19.4	18.38		
				12	0			19.4	18.46		
64QAM			12	6	19.4	18.42					
			12	11	19.4	18.40					
			25	0	19.4	18.41					
			1	0	19.4	18.68					
			1	12	19.4	18.62					
			1	24	19.4	18.64					
64QAM			12	0	19.4	18.45					
			12	6	19.4	18.48					
			12	11	19.4	18.43					
			25	0	19.4	18.43					
			1	0	19.4	18.70					
			1	12	19.4	18.65					
	1	24	19.4	18.66							
	12	0	19.4	18.55							
	12	6	19.4	18.53							
	12	11	19.4	18.51							
	25	0	19.4	18.51							

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
3	18615	1851.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.18		
				1	7			19.4	18.28		
				1	14			19.4	18.17		
				8	0			19.4	18.23		
				8	4			19.4	18.25		
				8	7			19.4	18.26		
			16QAM	15	0			19.4	18.27		
				1	0			19.4	18.38		
				1	7			19.4	18.51		
				1	14			19.4	18.36		
				8	0			19.4	18.20		
				8	4			19.4	18.22		
			64QAM	8	7			19.4	18.18		
				15	0			19.4	18.21		
				1	0			19.4	18.65		
				1	7			19.4	18.69		
				1	14			19.4	18.61		
				8	0			19.4	18.40		
			18900	1880	QPSK			8	4	19.4	18.41
								8	7	19.4	18.36
								15	0	19.4	18.33
								1	0	19.4	18.15
								1	7	19.4	18.25
								1	14	19.4	18.13
	16QAM	8			0			19.4	18.25		
		8			4			19.4	18.23		
		8			7			19.4	18.22		
		15			0			19.4	18.22		
		1			0			19.4	18.36		
		1			7			19.4	18.48		
	64QAM	1			14			19.4	18.30		
		8			0			19.4	18.15		
		8			4			19.4	18.21		
		8			7			19.4	18.16		
		15			0			19.4	18.19		
		1			0			19.4	18.63		
	19185	1908.5			QPSK			1	7	19.4	18.67
								1	14	19.4	18.61
								8	0	19.4	18.37
								8	4	19.4	18.39
								8	7	19.4	18.35
								15	0	19.4	18.30
			16QAM	1	0			19.4	18.32		
				1	7			19.4	18.43		
				1	14			19.4	18.34		
				8	0			19.4	18.42		
				8	4			19.4	18.41		
				8	7			19.4	18.36		
64QAM			15	0	19.4	18.39					
			1	0	19.4	18.53					
			1	7	19.4	18.64					
			1	14	19.4	18.53					
			8	0	19.4	18.39					
			8	4	19.4	18.38					
64QAM			8	7	19.4	18.34					
			15	0	19.4	18.37					
			1	0	19.4	18.74					
			1	7	19.4	18.91					
			1	14	19.4	18.76					
			8	0	19.4	18.52					
	8	4	19.4	18.53							
	8	7	19.4	18.50							
	15	0	19.4	18.47							

Band : 2

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
1.4	18607	1850.7	QPSK	1	0	MPR is disabled when power reduction is enabled		19.4	18.15				
				1	2			19.4	18.20				
				1	5			19.4	18.13				
				3	0			19.4	18.17				
				3	1			19.4	18.23				
				3	3			19.4	18.15				
			6	0	19.4			18.20					
			16QAM	1	0			19.4	18.34				
				1	2			19.4	18.43				
				1	5			19.4	18.33				
				3	0			19.4	18.36				
				3	1			19.4	18.39				
				3	3			19.4	18.34				
			6	0	19.4			18.16					
			64QAM	1	0			19.4	18.57				
				1	2			19.4	18.65				
				1	5			19.4	18.60				
				3	0			19.4	18.27				
				3	1			19.4	18.33				
				3	3			19.4	18.22				
			6	0	19.4			18.34					
			18900	1880	1880			QPSK	1	0	19.4	18.11	
									1	2	19.4	18.17	
									1	5	19.4	18.06	
	3	0							19.4	18.14			
	3	1							19.4	18.18			
	3	3							19.4	18.14			
	6	0						19.4	18.11				
	16QAM	1						0	19.4	18.29			
		1						2	19.4	18.39			
		1						5	19.4	18.28			
		3						0	19.4	18.35			
		3						1	19.4	18.38			
		3						3	19.4	18.33			
	6	0						19.4	18.13				
	64QAM	1						0	19.4	18.53			
		1						2	19.4	18.62			
		1						5	19.4	18.54			
		3						0	19.4	18.22			
		3						1	19.4	18.30			
		3						3	19.4	18.20			
	6	0						19.4	18.31				
	19193	1909.3						1909.3	QPSK	1	0	19.4	18.26
										1	2	19.4	18.33
										1	5	19.4	18.24
			3	0	19.4					18.32			
			3	1	19.4					18.35			
			3	3	19.4					18.30			
6			0	19.4	18.31								
16QAM			1	0	19.4	18.46							
			1	2	19.4	18.56							
			1	5	19.4	18.43							
			3	0	19.4	18.49							
			3	1	19.4	18.54							
			3	3	19.4	18.48							
6			0	19.4	18.29								
64QAM			1	0	19.4	18.70							
			1	2	19.4	18.74							
			1	5	19.4	18.69							
			3	0	19.4	18.40							
			3	1	19.4	18.44							
			3	3	19.4	18.36							
6			0	19.4	18.47								

LTE Band 4 Measured Results(Full)

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
20	20050	1720	QPSK	1	0	0	0	24.0	22.94			
				1	49	0	0	24.0	22.90			
				1	99	0	0	24.0	22.89			
				50	0	1	1	23.0	21.83			
				50	24	1	1	23.0	21.92			
				50	49	1	1	23.0	21.89			
			100	0	1	1	23.0	21.93				
			16QAM	1	0	1	1	23.0	22.26			
				1	49	1	1	23.0	22.25			
				1	99	1	1	23.0	22.25			
				50	0	2	2	22.0	20.87			
				50	24	2	2	22.0	20.92			
				50	49	2	2	22.0	20.92			
			64QAM	100	0	2	2	22.0	20.94			
				1	0	2	2	22.0	21.11			
				1	49	2	2	22.0	21.06			
				1	99	2	2	22.0	21.11			
				50	0	3	3	21.0	19.90			
				50	24	3	3	21.0	19.94			
			QPSK	50	49	3	3	21.0	19.93			
				100	0	3	3	21.0	19.95			
				20175	1732.5	QPSK	1	0	0	0	24.0	23.03
							1	49	0	0	24.0	22.88
							1	99	0	0	24.0	22.87
	50	0					1	1	23.0	21.94		
	50	24	1				1	23.0	21.86			
	50	49	1				1	23.0	21.83			
	100	0	1	1		23.0	21.90					
	16QAM	1	0	1		1	23.0	22.36				
		1	49	1		1	23.0	22.21				
		1	99	1		1	23.0	22.22				
		50	0	2		2	22.0	20.93				
		50	24	2		2	22.0	20.86				
		50	49	2		2	22.0	20.80				
	64QAM	100	0	2		2	22.0	20.87				
		1	0	2		2	22.0	21.03				
		1	49	2		2	22.0	20.85				
		1	99	2		2	22.0	20.85				
		50	0	3		3	21.0	19.97				
		50	24	3		3	21.0	19.91				
	QPSK	50	49	3		3	21.0	19.85				
		100	0	3		3	21.0	19.91				
		20300	1745	QPSK		1	0	0	0	24.0	22.81	
						1	49	0	0	24.0	22.62	
						1	99	0	0	24.0	22.66	
					50	0	1	1	23.0	21.77		
	50				24	1	1	23.0	21.73			
	50				49	1	1	23.0	21.67			
100	0			1	1	23.0	21.77					
16QAM	1			0	1	1	23.0	22.08				
	1			49	1	1	23.0	21.90				
	1			99	1	1	23.0	21.89				
	50			0	2	2	22.0	20.83				
	50			24	2	2	22.0	20.78				
	50			49	2	2	22.0	20.73				
64QAM	100			0	2	2	22.0	20.75				
	1			0	2	2	22.0	20.73				
	1			49	2	2	22.0	20.53				
	1			99	2	2	22.0	20.54				
	50			0	3	3	21.0	19.76				
	50			24	3	3	21.0	19.72				
QPSK	50			49	3	3	21.0	19.66				
	100			0	3	3	21.0	19.71				

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
15	20025	1717.5	QPSK	1	0	0	0	24.0	22.91
				1	37	0	0	24.0	22.76
				1	74	0	0	24.0	22.87
				36	0	1	1	23.0	21.83
				36	19	1	1	23.0	21.76
				36	39	1	1	23.0	21.89
				75	0	1	1	23.0	21.77
			16QAM	1	0	1	1	23.0	22.05
				1	37	1	1	23.0	21.90
				1	74	1	1	23.0	22.02
				36	0	2	2	22.0	20.86
				36	19	2	2	22.0	20.85
				36	39	2	2	22.0	20.91
				75	0	2	2	22.0	20.73
			64QAM	1	0	2	2	22.0	21.41
				1	37	2	2	22.0	21.31
				1	74	2	2	22.0	21.35
				36	0	3	3	21.0	19.83
				36	19	3	3	21.0	19.83
				36	39	3	3	21.0	19.91
				75	0	3	3	21.0	19.77
	20175	1732.5	QPSK	1	0	0	0	24.0	22.92
				1	37	0	0	24.0	22.76
				1	74	0	0	24.0	22.77
				36	0	1	1	23.0	21.92
				36	19	1	1	23.0	21.82
				36	39	1	1	23.0	21.81
				75	0	1	1	23.0	21.79
			16QAM	1	0	1	1	23.0	22.18
				1	37	1	1	23.0	22.03
				1	74	1	1	23.0	22.10
				36	0	2	2	22.0	20.93
				36	19	2	2	22.0	20.90
				36	39	2	2	22.0	20.86
				75	0	2	2	22.0	20.85
			64QAM	1	0	2	2	22.0	21.22
				1	37	2	2	22.0	21.05
				1	74	2	2	22.0	21.05
				36	0	3	3	21.0	19.92
				36	19	3	3	21.0	19.89
				36	39	3	3	21.0	19.84
				75	0	3	3	21.0	19.88
	20325	1747.5	QPSK	1	0	0	0	24.0	22.82
				1	37	0	0	24.0	22.69
				1	74	0	0	24.0	22.66
36				0	1	1	23.0	21.73	
36				19	1	1	23.0	21.69	
36				39	1	1	23.0	21.68	
75				0	1	1	23.0	21.68	
16QAM			1	0	1	1	23.0	21.99	
			1	37	1	1	23.0	21.85	
			1	74	1	1	23.0	21.82	
			36	0	2	2	22.0	20.78	
			36	19	2	2	22.0	20.75	
			36	39	2	2	22.0	20.65	
			75	0	2	2	22.0	20.64	
64QAM			1	0	2	2	22.0	21.32	
			1	37	2	2	22.0	21.24	
			1	74	2	2	22.0	21.29	
			36	0	3	3	21.0	19.78	
			36	19	3	3	21.0	19.73	
			36	39	3	3	21.0	19.71	
			75	0	3	3	21.0	19.67	

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
10	20000	1715	QPSK	1	0	0	0	24.0	22.66				
				1	24	0	0	24.0	22.62				
				1	49	0	0	24.0	22.70				
				25	0	1	1	23.0	21.78				
				25	12	1	1	23.0	21.77				
				25	24	1	1	23.0	21.76				
			16QAM	50	0	1	1	23.0	21.74				
				1	0	1	1	23.0	21.95				
				1	24	1	1	23.0	21.90				
				1	49	1	1	23.0	22.01				
				25	0	2	2	22.0	20.78				
				25	12	2	2	22.0	20.79				
			64QAM	25	24	2	2	22.0	20.77				
				50	0	2	2	22.0	20.73				
				1	0	2	2	22.0	21.13				
				1	24	2	2	22.0	21.13				
				1	49	2	2	22.0	21.15				
				25	0	3	3	21.0	19.78				
			20175	1732.5	1732.5	QPSK	25	12	3	3	21.0	19.79	
							25	24	3	3	21.0	19.76	
							50	0	3	3	21.0	19.77	
							1	0	0	0	24.0	22.81	
							1	24	0	0	24.0	22.73	
							1	49	0	0	24.0	22.72	
						16QAM	25	0	1	1	23.0	21.85	
							25	12	1	1	23.0	21.85	
							25	24	1	1	23.0	21.80	
							50	0	1	1	23.0	21.83	
							1	0	1	1	23.0	22.12	
							1	24	1	1	23.0	22.07	
	64QAM	1				49	1	1	23.0	22.05			
		25				0	2	2	22.0	20.78			
		25				12	2	2	22.0	20.77			
		25				24	2	2	22.0	20.77			
		50				0	2	2	22.0	20.81			
		1				0	2	2	22.0	21.13			
	20350	1750				1750	QPSK	1	24	2	2	22.0	21.09
								1	49	2	2	22.0	21.05
								25	0	3	3	21.0	19.84
								25	12	3	3	21.0	19.84
								25	24	3	3	21.0	19.81
								50	0	3	3	21.0	19.78
							16QAM	1	0	0	0	24.0	22.60
								1	24	0	0	24.0	22.55
								1	49	0	0	24.0	22.54
25								0	1	1	23.0	21.68	
25								12	1	1	23.0	21.65	
25								24	1	1	23.0	21.63	
64QAM			50	0	1		1	23.0	21.65				
			1	0	1		1	23.0	21.89				
			1	24	1		1	23.0	21.81				
			1	49	1		1	23.0	21.79				
			25	0	2		2	22.0	20.70				
			25	12	2		2	22.0	20.67				
64QAM			25	24	2		2	22.0	20.67				
			50	0	2		2	22.0	20.66				
			1	0	2		2	22.0	21.10				
			1	24	2		2	22.0	21.04				
			1	49	2		2	22.0	21.02				
			25	0	3		3	21.0	19.70				
			25	12	3		3	21.0	19.70				
			25	24	3		3	21.0	19.67				
			50	0	3		3	21.0	19.69				

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
5	19975	1712.5	QPSK	1	0	0	0	24.0	22.75				
				1	12	0	0	24.0	22.67				
				1	24	0	0	24.0	22.72				
				12	0	1	1	23.0	21.75				
				12	6	1	1	23.0	21.79				
				12	11	1	1	23.0	21.78				
			25	0	1	1	23.0	21.78					
			16QAM	1	0	1	1	23.0	21.99				
				1	12	1	1	23.0	21.95				
				1	24	1	1	23.0	21.97				
				12	0	2	2	22.0	20.82				
				12	6	2	2	22.0	20.83				
				12	11	2	2	22.0	20.81				
			25	0	2	2	22.0	20.77					
			64QAM	1	0	2	2	22.0	20.96				
				1	12	2	2	22.0	21.00				
				1	24	2	2	22.0	20.95				
				12	0	3	3	21.0	19.86				
				12	6	3	3	21.0	19.84				
				12	11	3	3	21.0	19.82				
			25	0	3	3	21.0	19.82					
			20175	1732.5	1732.5	QPSK	1	0	0	0	24.0	22.86	
							1	12	0	0	24.0	22.83	
							1	24	0	0	24.0	22.82	
	12	0					1	1	23.0	21.82			
	12	6					1	1	23.0	21.86			
	12	11					1	1	23.0	21.80			
	25	0				1	1	23.0	21.84				
	16QAM	1				0	1	1	23.0	22.21			
		1				12	1	1	23.0	22.15			
		1				24	1	1	23.0	22.17			
		12				0	2	2	22.0	20.97			
		12				6	2	2	22.0	20.96			
		12				11	2	2	22.0	20.95			
	25	0				2	2	22.0	20.86				
	64QAM	1				0	2	2	22.0	21.03			
		1				12	2	2	22.0	21.00			
		1				24	2	2	22.0	20.99			
		12				0	3	3	21.0	20.00			
		12				6	3	3	21.0	20.01			
		12				11	3	3	21.0	19.95			
	25	0				3	3	21.0	19.86				
	20375	1752.5				1752.5	QPSK	1	0	0	0	24.0	22.63
								1	12	0	0	24.0	22.57
								1	24	0	0	24.0	22.61
			12	0	1			1	23.0	21.64			
			12	6	1			1	23.0	21.69			
			12	11	1			1	23.0	21.65			
25			0	1	1		23.0	21.66					
16QAM			1	0	1		1	23.0	21.90				
			1	12	1		1	23.0	21.87				
			1	24	1		1	23.0	21.84				
			12	0	2		2	22.0	20.70				
			12	6	2		2	22.0	20.71				
			12	11	2		2	22.0	20.71				
25			0	2	2		22.0	20.63					
64QAM			1	0	2		2	22.0	20.93				
			1	12	2		2	22.0	20.86				
			1	24	2		2	22.0	20.85				
			12	0	3		3	21.0	19.71				
			12	6	3		3	21.0	19.73				
			12	11	3		3	21.0	19.68				
25			0	3	3		21.0	19.71					

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
3	19965	1711.5	QPSK	1	0	0	0	24.0	22.65				
				1	7	0	0	24.0	22.71				
				1	14	0	0	24.0	22.63				
				8	0	1	1	23.0	21.77				
				8	4	1	1	23.0	21.76				
				8	7	1	1	23.0	21.75				
			15	0	1	1	23.0	21.76					
			16QAM	1	0	1	1	23.0	21.84				
				1	7	1	1	23.0	21.95				
				1	14	1	1	23.0	21.81				
				8	0	2	2	22.0	20.71				
				8	4	2	2	22.0	20.71				
				8	7	2	2	22.0	20.67				
			64QAM	15	0	2	2	22.0	20.68				
				1	0	2	2	22.0	21.17				
				1	7	2	2	22.0	21.21				
				1	14	2	2	22.0	21.09				
				8	0	3	3	21.0	19.82				
				8	4	3	3	21.0	19.84				
			20175	1732.5	1732.5	QPSK	8	7	3	3	21.0	19.82	
							8	4	3	3	21.0	19.84	
							8	7	3	3	21.0	19.82	
							15	0	3	3	21.0	19.79	
							1	0	0	0	24.0	22.73	
							1	7	0	0	24.0	22.84	
						1	14	0	0	24.0	22.70		
						16QAM	8	0	1	1	23.0	21.82	
							8	4	1	1	23.0	21.82	
							8	7	1	1	23.0	21.78	
							15	0	1	1	23.0	21.78	
	1	0					1	1	23.0	22.02			
	1	7					1	1	23.0	22.12			
	64QAM	1				14	1	1	23.0	21.98			
		8				0	2	2	22.0	20.87			
		8				4	2	2	22.0	20.89			
		8				7	2	2	22.0	20.85			
		15				0	2	2	22.0	20.73			
		1				0	2	2	22.0	21.02			
	20385	1753.5				1753.5	QPSK	1	7	2	2	22.0	21.14
								1	14	2	2	22.0	20.98
								8	0	3	3	21.0	19.75
								8	4	3	3	21.0	19.78
								8	7	3	3	21.0	19.75
								15	0	3	3	21.0	19.71
							16QAM	1	0	0	0	24.0	22.55
1								7	0	0	24.0	22.64	
1								14	0	0	24.0	22.54	
8								0	1	1	23.0	21.67	
8								4	1	1	23.0	21.69	
8			7	1	1			23.0	21.63				
64QAM			15	0	1		1	23.0	21.62				
			1	0	1		1	23.0	21.78				
			1	7	1		1	23.0	21.86				
			1	14	1		1	23.0	21.76				
			8	0	2		2	22.0	20.59				
			8	4	2		2	22.0	20.58				
64QAM			8	7	2		2	22.0	20.57				
			15	0	2		2	22.0	20.61				
			1	0	2		2	22.0	21.03				
			1	7	2		2	22.0	21.14				
			1	14	2		2	22.0	20.97				
			8	0	3		3	21.0	19.76				
			8	4	3		3	21.0	19.75				
			8	7	3		3	21.0	19.73				
			15	0	3		3	21.0	19.69				

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
1.4	19957	1710.7	QPSK	1	0	0	0	24.0	22.65				
				1	2	0	0	24.0	22.73				
				1	5	0	0	24.0	22.64				
				3	0	0	0	24.0	22.73				
				3	1	0	0	24.0	22.75				
				3	3	0	0	24.0	22.71				
			16QAM	6	0	1	1	23.0	21.66				
				1	0	1	1	23.0	21.68				
				1	2	1	1	23.0	21.79				
				1	5	1	1	23.0	21.69				
				3	0	1	1	23.0	21.64				
				3	1	1	1	23.0	21.69				
			64QAM	3	3	1	1	23.0	21.62				
				6	0	2	2	22.0	20.75				
				1	0	2	2	22.0	21.04				
				1	2	2	2	22.0	21.13				
				1	5	2	2	22.0	21.00				
				3	0	2	2	22.0	20.82				
			20175	1732.5	1732.5	QPSK	3	1	2	2	22.0	20.87	
							3	3	2	2	22.0	20.83	
							6	0	3	3	21.0	19.71	
	1	0					0	0	24.0	22.66			
	1	2					0	0	24.0	22.71			
	1	5					0	0	24.0	22.64			
	16QAM	3				0	0	0	24.0	22.80			
		3				1	0	0	24.0	22.83			
		3				3	0	0	24.0	22.76			
		6				0	1	1	23.0	21.77			
		1				0	1	1	23.0	21.95			
		1				2	1	1	23.0	22.02			
	64QAM	1				5	1	1	23.0	21.92			
		3				0	1	1	23.0	21.87			
		3				1	1	1	23.0	21.91			
		3				3	1	1	23.0	21.85			
		6				0	2	2	22.0	20.76			
		1				0	2	2	22.0	20.94			
	20393	1754.3				1754.3	QPSK	1	2	2	2	22.0	21.04
								1	5	2	2	22.0	20.94
								3	0	2	2	22.0	20.67
			3	1	2			2	22.0	20.72			
			3	3	2			2	22.0	20.68			
			6	0	3			3	21.0	19.63			
16QAM			1	0	0		0	24.0	22.51				
			1	2	0		0	24.0	22.59				
			1	5	0		0	24.0	22.47				
			3	0	0		0	24.0	22.56				
			3	1	0		0	24.0	22.60				
			3	3	0		0	24.0	22.61				
64QAM			6	0	1		1	23.0	21.55				
			1	0	1		1	23.0	21.71				
			1	2	1		1	23.0	21.80				
			1	5	1		1	23.0	21.67				
			3	0	1		1	23.0	21.73				
			3	1	1		1	23.0	21.78				
64QAM			3	3	1		1	23.0	21.76				
			6	0	2		2	22.0	20.55				
			1	0	2		2	22.0	20.94				
	1	2	2	2	22.0	21.04							
	1	5	2	2	22.0	20.93							
	3	0	2	2	22.0	20.65							
	3	1	2	2	22.0	20.70							
	3	3	2	2	22.0	20.62							
	6	0	3	3	21.0	19.74							

LTE Band 4 Measured Results (Reduction)

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
20	20050	1720	QPSK	1	0	MPR is disabled when power reduction is enabled		18.6	17.63		
				1	49			18.6	17.60		
				1	99			18.6	17.61		
				50	0			18.6	17.54		
				50	24			18.6	17.58		
				50	49			18.6	17.55		
			100	0	18.6			17.59			
			16QAM	1	0			18.6	17.95		
				1	49			18.6	17.88		
				1	99			18.6	17.91		
				50	0			18.6	17.55		
				50	24			18.6	17.65		
				50	49			18.6	17.58		
			64QAM	100	0			18.6	17.61		
				1	0			18.6	17.68		
				1	49			18.6	17.60		
				1	99			18.6	17.59		
				50	0			18.6	17.56		
				50	24			18.6	17.61		
			20175	1732.5	QPSK			1	0	18.6	17.73
								1	49	18.6	17.54
								1	99	18.6	17.56
								50	0	18.6	17.66
								50	24	18.6	17.58
	50	49						18.6	17.51		
	100	0						18.6	17.61		
	16QAM	1						0	18.6	18.01	
		1						49	18.6	17.88	
		1						99	18.6	17.91	
		50						0	18.6	17.64	
		50						24	18.6	17.58	
		50			49			18.6	17.58		
	64QAM	100			0			18.6	17.62		
		1			0			18.6	17.72		
		1			49			18.6	17.59		
		1			99			18.6	17.57		
		50			0			18.6	17.63		
		50			24			18.6	17.58		
	20300	1745			QPSK			50	49	18.6	17.56
								100	0	18.6	17.61
								1	0	18.6	17.60
								1	49	18.6	17.40
								1	99	18.6	17.42
			50	0				18.6	17.49		
			16QAM	50	24			18.6	17.48		
				50	49			18.6	17.45		
				100	0			18.6	17.45		
				1	0			18.6	17.93		
1				49	18.6	17.77					
1				99	18.6	17.78					
16QAM	50	0	18.6	17.54							
	50	24	18.6	17.52							
	50	49	18.6	17.46							
	100	0	18.6	17.49							
	1	0	18.6	17.79							
	1	49	18.6	17.60							
16QAM	1	99	18.6	17.59							
	50	0	18.6	17.57							
	50	24	18.6	17.51							
	50	49	18.6	17.46							
	100	0	18.6	17.49							
	100	0	18.6	17.49							

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
15	20025	1717.5	QPSK	1	0	MPR is disabled when power reduction is enabled		18.6	17.64		
				1	37			18.6	17.48		
				1	74			18.6	17.57		
				36	0			18.6	17.52		
				36	19			18.6	17.53		
				36	39			18.6	17.58		
				75	0			18.6	17.48		
			16QAM	1	0			18.6	17.77		
				1	37			18.6	17.62		
				1	74			18.6	17.76		
				36	0			18.6	17.60		
				36	19			18.6	17.53		
				36	39			18.6	17.60		
				75	0			18.6	17.49		
			64QAM	1	0			18.6	18.08		
				1	37			18.6	17.97		
				1	74			18.6	18.01		
				36	0			18.6	17.58		
				36	19			18.6	17.52		
				36	39			18.6	17.61		
				75	0			18.6	17.47		
			20175	1732.5	QPSK			1	0	18.6	17.68
								1	37	18.6	17.52
								1	74	18.6	17.54
	36	0						18.6	17.59		
	36	19						18.6	17.56		
	36	39						18.6	17.50		
	75	0						18.6	17.52		
	16QAM	1			0			18.6	17.80		
		1			37			18.6	17.66		
		1			74			18.6	17.69		
		36			0			18.6	17.63		
		36			19			18.6	17.62		
		36			39			18.6	17.56		
		75			0			18.6	17.52		
	64QAM	1			0			18.6	18.18		
		1			37			18.6	18.01		
		1			74			18.6	17.95		
		36			0			18.6	17.63		
		36			19			18.6	17.62		
		36			39			18.6	17.56		
		75			0			18.6	17.53		
	20325	1747.5			QPSK			1	0	18.6	17.58
								1	37	18.6	17.39
								1	74	18.6	17.43
			36	0				18.6	17.48		
			36	19				18.6	17.43		
			36	39				18.6	17.39		
75			0	18.6		17.40					
16QAM			1	0	18.6	17.79					
			1	37	18.6	17.65					
			1	74	18.6	17.65					
			36	0	18.6	17.47					
			36	19	18.6	17.46					
			36	39	18.6	17.43					
			75	0	18.6	17.42					
16QAM			1	0	18.6	17.87					
			1	37	18.6	17.76					
			1	74	18.6	17.79					
			36	0	18.6	17.42					
			36	19	18.6	17.43					
			36	39	18.6	17.35					
			75	0	18.6	17.41					

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	20000	1715	QPSK	1	0			18.6	17.53		
				1	24			18.6	17.46		
				1	49			18.6	17.54		
				25	0			18.6	17.50		
				25	12			18.6	17.49		
				25	24			18.6	17.44		
			16QAM	50	0			18.6	17.44		
				1	0			18.6	17.79		
				1	24			18.6	17.68		
				1	49			18.6	17.79		
				25	0			18.6	17.51		
				25	12			18.6	17.48		
			64QAM	25	24			18.6	17.45		
				50	0			18.6	17.47		
				1	0			18.6	17.87		
				1	24			18.6	17.79		
				1	49			18.6	17.91		
				25	0			18.6	17.52		
			20175	1732.5	QPSK			25	12	18.6	17.47
								25	24	18.6	17.45
								50	0	18.6	17.51
								1	0	18.6	17.49
								1	24	18.6	17.41
								1	49	18.6	17.42
	16QAM	25			0			18.6	17.54		
		25			12			18.6	17.53		
		25			24			18.6	17.53		
		50			0			18.6	17.52		
		1			0			18.6	17.80		
		1			24			18.6	17.75		
	64QAM	1			49			18.6	17.74		
		25			0			18.6	17.60		
		25			12			18.6	17.58		
		25			24			18.6	17.55		
		50			0			18.6	17.54		
		1			0			18.6	17.92		
	20350	1750			QPSK			1	24	18.6	17.83
								1	49	18.6	17.91
								25	0	18.6	17.56
								25	12	18.6	17.55
								25	24	18.6	17.55
								50	0	18.6	17.58
			16QAM	1	0			18.6	17.47		
				1	24			18.6	17.36		
				1	49			18.6	17.38		
				25	0			18.6	17.40		
				25	12			18.6	17.39		
				25	24			18.6	17.38		
16QAM	50	0	18.6	17.38							
	1	0	18.6	17.72							
	1	24	18.6	17.64							
	1	49	18.6	17.64							
	25	0	18.6	17.47							
	25	12	18.6	17.42							
16QAM	25	24	18.6	17.40							
	50	0	18.6	17.40							
	1	0	18.6	17.80							
	1	24	18.6	17.75							
	1	49	18.6	17.76							
	25	0	18.6	17.45							
25	12	18.6	17.40								
25	24	18.6	17.38								
50	0	18.6	17.40								

MPR is disabled when power reduction is enabled

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
5	19975	1712.5	QPSK	1	0			18.6	17.46		
				1	12			18.6	17.39		
				1	24			18.6	17.41		
				12	0			18.6	17.50		
				12	6			18.6	17.47		
				12	11			18.6	17.49		
				25	0			18.6	17.49		
			16QAM	1	0			18.6	17.79		
				1	12			18.6	17.74		
				1	24			18.6	17.72		
				12	0			18.6	17.54		
				12	6			18.6	17.57		
				12	11			18.6	17.54		
				25	0			18.6	17.48		
			64QAM	1	0			18.6	17.74		
				1	12			18.6	17.73		
				1	24			18.6	17.70		
				12	0			18.6	17.57		
				12	6			18.6	17.57		
				12	11			18.6	17.54		
				25	0			18.6	17.52		
			20175	1732.5	QPSK			1	0	18.6	17.52
								1	12	18.6	17.45
								1	24	18.6	17.51
	12	0						18.6	17.55		
	12	6						18.6	17.56		
	12	11						18.6	17.54		
	25	0						18.6	17.53		
	16QAM	1			0			18.6	17.78		
		1			12			18.6	17.79		
		1			24			18.6	17.76		
		12			0			18.6	17.62		
		12			6			18.6	17.62		
		12			11			18.6	17.57		
		25			0			18.6	17.52		
	64QAM	1			0			18.6	17.75		
		1			12			18.6	17.72		
		1			24			18.6	17.72		
		12			0			18.6	17.61		
		12			6			18.6	17.60		
		12			11			18.6	17.58		
		25			0			18.6	17.59		
	20375	1752.5			QPSK			1	0	18.6	17.45
								1	12	18.6	17.39
								1	24	18.6	17.41
			12	0				18.6	17.39		
			12	6				18.6	17.41		
			12	11				18.6	17.37		
25			0	18.6		17.39					
16QAM			1	0	18.6	17.81					
			1	12	18.6	17.77					
			1	24	18.6	17.75					
			12	0	18.6	17.54					
			12	6	18.6	17.56					
			12	11	18.6	17.52					
			25	0	18.6	17.46					
16QAM			1	0	18.6	17.61					
			1	12	18.6	17.58					
			1	24	18.6	17.57					
			12	0	18.6	17.54					
			12	6	18.6	17.56					
			12	11	18.6	17.53					
			25	0	18.6	17.44					

MPR is disabled when power reduction is enabled

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
3	19965	1711.5	QPSK	1	0	MPR is disabled when power reduction is enabled		18.6	17.47
				1	7			18.6	17.55
				1	14			18.6	17.46
				8	0			18.6	17.48
				8	4			18.6	17.47
				8	7			18.6	17.45
				15	0			18.6	17.43
			16QAM	1	0			18.6	17.69
				1	7			18.6	17.78
				1	14			18.6	17.70
				8	0			18.6	17.58
				8	4			18.6	17.59
				8	7			18.6	17.57
				15	0			18.6	17.53
			64QAM	1	0			18.6	17.82
				1	7			18.6	17.94
				1	14			18.6	17.81
				8	0			18.6	17.49
				8	4			18.6	17.50
				8	7			18.6	17.48
				15	0			18.6	17.51
	20175	1732.5	QPSK	1	0			18.6	17.42
				1	7			18.6	17.48
				1	14			18.6	17.41
				8	0			18.6	17.56
				8	4			18.6	17.53
				8	7			18.6	17.50
				15	0			18.6	17.54
			16QAM	1	0			18.6	17.66
				1	7			18.6	17.80
				1	14			18.6	17.66
				8	0			18.6	17.50
				8	4			18.6	17.47
				8	7			18.6	17.44
				15	0			18.6	17.51
			64QAM	1	0			18.6	17.90
				1	7			18.6	17.89
				1	14			18.6	17.84
				8	0			18.6	17.61
				8	4			18.6	17.65
				8	7			18.6	17.60
				15	0			18.6	17.54
	20385	1753.5	QPSK	1	0			18.6	17.28
				1	7			18.6	17.37
				1	14			18.6	17.27
				8	0			18.6	17.41
				8	4			18.6	17.39
				8	7			18.6	17.38
				15	0			18.6	17.35
			16QAM	1	0			18.6	17.50
				1	7			18.6	17.67
1				14	18.6	17.50			
8				0	18.6	17.32			
8				4	18.6	17.34			
8				7	18.6	17.33			
15				0	18.6	17.37			
16QAM			1	0	18.6	17.73			
			1	7	18.6	17.86			
			1	14	18.6	17.70			
			8	0	18.6	17.49			
			8	4	18.6	17.51			
			8	7	18.6	17.48			
			15	0	18.6	17.43			

Band : 4

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
1.4	19957	1710.7	QPSK	1	0			18.6	17.41				
				1	2			18.6	17.47				
				1	5			18.6	17.40				
				3	0			18.6	17.38				
				3	1			18.6	17.44				
				3	3			18.6	17.40				
			16QAM	6	0			18.6	17.38				
				1	0			18.6	17.66				
				1	2			18.6	17.73				
				1	5			18.6	17.53				
				3	0			18.6	17.40				
				3	1			18.6	17.41				
			64QAM	3	3			18.6	17.34				
				6	0			18.6	17.49				
				1	0			18.6	17.78				
				1	2			18.6	17.88				
				1	5			18.6	17.77				
				3	0			18.6	17.56				
			20175	1732.5	1732.5			QPSK	3	1	18.6	17.60	
									3	3	18.6	17.55	
									6	0	18.6	17.43	
									1	0	18.6	17.38	
									1	2	18.6	17.45	
									1	5	18.6	17.35	
	16QAM	3						0	18.6	17.41			
		3						1	18.6	17.46			
		3						3	18.6	17.41			
		6						0	18.6	17.40			
		1						0	18.6	17.59			
		1						2	18.6	17.70			
	64QAM	1						5	18.6	17.58			
		3						0	18.6	17.64			
		3						1	18.6	17.67			
		3						3	18.6	17.61			
		6						0	18.6	17.44			
		1						0	18.6	17.78			
	20393	1754.3						1754.3	QPSK	1	2	18.6	17.90
										1	5	18.6	17.79
										3	0	18.6	17.49
										3	1	18.6	17.54
										3	3	18.6	17.46
										6	0	18.6	17.57
			16QAM	1	0				18.6	17.23			
				1	2				18.6	17.30			
				1	5				18.6	17.22			
				3	0				18.6	17.29			
				3	1				18.6	17.34			
				3	3				18.6	17.28			
16QAM	6	0	18.6	17.27									
	1	0	18.6	17.44									
	1	2	18.6	17.59									
	1	5	18.6	17.43									
	3	0	18.6	17.46									
	3	1	18.6	17.52									
	3	3	18.6	17.47									
	6	0	18.6	17.29									
	1	0	18.6	17.64									
	1	2	18.6	17.79									
	1	5	18.6	17.69									
	3	0	18.6	17.33									
3	1	18.6	17.39										
3	3	18.6	17.34										
6	0	18.6	17.45										

MPR is disabled when power reduction is enabled

LTE Band 5 Measured Results(Full)

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	20450	829	QPSK	1	0	0	0	24.0	22.81
				1	24	0	0	24.0	22.87
				1	49	0	0	24.0	22.91
				25	0	1	1	23.0	21.97
				25	12	1	1	23.0	21.99
				25	24	1	1	23.0	22.01
			16QAM	50	0	1	1	23.0	22.00
				1	0	1	1	23.0	22.12
				1	24	1	1	23.0	22.17
				1	49	1	1	23.0	22.26
				25	0	2	2	22.0	20.95
				25	12	2	2	22.0	20.96
			64QAM	25	24	2	2	22.0	20.99
				50	0	2	2	22.0	21.01
				1	0	2	2	22.0	21.22
				1	24	2	2	22.0	21.29
				1	49	2	2	22.0	21.33
				25	0	3	3	21.0	19.93
	20525	836.5	QPSK	25	12	3	3	21.0	19.92
				25	24	3	3	21.0	19.97
				50	0	3	3	21.0	20.05
				1	0	0	0	24.0	22.89
				1	24	0	0	24.0	22.84
				1	49	0	0	24.0	22.80
			16QAM	25	0	1	1	23.0	21.97
				25	12	1	1	23.0	21.93
				25	24	1	1	23.0	21.89
				50	0	1	1	23.0	21.91
				1	0	1	1	23.0	22.15
				1	24	1	1	23.0	22.08
			64QAM	1	49	1	1	23.0	22.01
				25	0	2	2	22.0	20.99
				25	12	2	2	22.0	20.99
				25	24	2	2	22.0	20.94
				50	0	2	2	22.0	20.94
				1	0	2	2	22.0	21.33
	20600	844	QPSK	1	24	2	2	22.0	21.31
				1	49	2	2	22.0	21.31
				25	0	3	3	21.0	20.00
				25	12	3	3	21.0	19.97
				25	24	3	3	21.0	19.93
				50	0	3	3	21.0	19.98
			16QAM	1	0	0	0	24.0	22.80
				1	24	0	0	24.0	22.76
				1	49	0	0	24.0	22.71
25				0	1	1	23.0	21.89	
25				12	1	1	23.0	21.90	
25				24	1	1	23.0	21.88	
64QAM			50	0	1	1	23.0	21.85	
			1	0	1	1	23.0	22.05	
			1	24	1	1	23.0	21.97	
			1	49	1	1	23.0	21.94	
			25	0	2	2	22.0	20.89	
			25	12	2	2	22.0	20.89	
			16QAM	25	24	2	2	22.0	20.87
				50	0	2	2	22.0	20.85
				1	0	2	2	22.0	20.85
			64QAM	1	24	2	2	22.0	21.29
				1	49	2	2	22.0	21.29
				1	0	2	2	22.0	21.26
				25	0	3	3	21.0	19.93
				25	12	3	3	21.0	19.95
				25	24	3	3	21.0	19.89
				50	0	3	3	21.0	19.94

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
5	20425	826.5	QPSK	1	0	0	0	24.0	22.81		
				1	12	0	0	24.0	22.88		
				1	24	0	0	24.0	22.89		
				12	0	1	1	23.0	21.86		
				12	6	1	1	23.0	21.95		
				12	11	1	1	23.0	21.94		
			16QAM	25	0	1	1	23.0	21.93		
				1	0	1	1	23.0	22.04		
				1	12	1	1	23.0	22.16		
				1	24	1	1	23.0	22.10		
				12	0	2	2	22.0	20.92		
				12	6	2	2	22.0	21.05		
			64QAM	12	11	2	2	22.0	21.01		
				25	0	2	2	22.0	20.89		
				1	0	2	2	22.0	21.08		
				1	12	2	2	22.0	21.14		
				1	24	2	2	22.0	21.20		
				12	0	3	3	21.0	19.93		
			20525	836.5	QPSK	12	6	3	3	21.0	20.03
						12	11	3	3	21.0	19.99
						25	0	3	3	21.0	20.00
	1	0				0	0	24.0	23.03		
	1	12				0	0	24.0	22.96		
	1	24				0	0	24.0	22.95		
	16QAM	12			0	1	1	23.0	21.97		
		12			6	1	1	23.0	21.96		
		12			11	1	1	23.0	21.95		
		25			0	1	1	23.0	21.96		
		1			0	1	1	23.0	22.34		
		1			12	1	1	23.0	22.37		
	64QAM	1			24	1	1	23.0	22.36		
		12			0	2	2	22.0	21.14		
		12			6	2	2	22.0	21.13		
		12			11	2	2	22.0	21.10		
		25			0	2	2	22.0	20.97		
		1			0	2	2	22.0	21.31		
	20625	846.5			QPSK	1	12	2	2	22.0	21.35
						1	24	2	2	22.0	21.23
						12	0	3	3	21.0	20.01
			12	6		3	3	21.0	20.03		
			12	11		3	3	21.0	19.98		
			25	0		3	3	21.0	19.96		
			16QAM	1	0	0	0	24.0	22.84		
				1	12	0	0	24.0	22.79		
				1	24	0	0	24.0	22.78		
12				0	1	1	23.0	21.90			
12				6	1	1	23.0	21.91			
12				11	1	1	23.0	21.85			
64QAM			25	0	1	1	23.0	21.86			
			1	0	1	1	23.0	22.05			
			1	12	1	1	23.0	22.06			
			1	24	1	1	23.0	22.02			
			12	0	2	2	22.0	20.93			
			12	6	2	2	22.0	20.94			
64QAM			12	11	2	2	22.0	20.91			
			25	0	2	2	22.0	20.82			
			1	0	2	2	22.0	21.08			
	1	12	2	2	22.0	21.03					
	1	24	2	2	22.0	21.00					
	12	0	3	3	21.0	19.93					
	12	6	3	3	21.0	19.91					
	12	11	3	3	21.0	19.91					
	25	0	3	3	21.0	19.88					

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
3	20415	825.5	QPSK	1	0	0	0	24.0	22.78			
				1	7	0	0	24.0	22.84			
				1	14	0	0	24.0	22.88			
				8	0	1	1	23.0	21.89			
				8	4	1	1	23.0	21.93			
				8	7	1	1	23.0	21.98			
			15	0	1	1	23.0	21.86				
			16QAM	1	0	1	1	23.0	21.95			
				1	7	1	1	23.0	22.04			
				1	14	1	1	23.0	22.01			
				8	0	2	2	22.0	20.84			
				8	4	2	2	22.0	20.84			
				8	7	2	2	22.0	20.90			
			64QAM	15	0	2	2	22.0	20.85			
				1	0	2	2	22.0	21.28			
				1	7	2	2	22.0	21.31			
				1	14	2	2	22.0	21.33			
				8	0	3	3	21.0	19.98			
				8	4	3	3	21.0	19.98			
			20525	836.5	836.5	QPSK	8	7	3	3	21.0	20.07
							15	0	3	3	21.0	19.93
							1	0	0	0	24.0	22.90
							1	7	0	0	24.0	22.99
							1	14	0	0	24.0	22.88
	8	0					1	1	23.0	21.99		
	16QAM	8				4	1	1	23.0	21.97		
		8				7	1	1	23.0	21.92		
		15				0	1	1	23.0	21.94		
		1				0	1	1	23.0	22.19		
		1				7	1	1	23.0	22.33		
		1				14	1	1	23.0	22.17		
	64QAM	8	0	2	2	22.0	21.04					
		8	4	2	2	22.0	21.04					
		8	7	2	2	22.0	21.01					
		15	0	2	2	22.0	20.91					
		1	0	2	2	22.0	21.24					
1		7	2	2	22.0	21.32						
20635	847.5	847.5	QPSK	1	14	2	2	22.0	21.18			
				8	0	3	3	21.0	19.91			
				8	4	3	3	21.0	19.89			
				8	7	3	3	21.0	19.86			
				15	0	3	3	21.0	19.87			
				1	0	0	0	24.0	22.77			
			16QAM	1	7	0	0	24.0	22.82			
				1	14	0	0	24.0	22.73			
				8	0	1	1	23.0	21.86			
				8	4	1	1	23.0	21.87			
				8	7	1	1	23.0	21.85			
				15	0	1	1	23.0	21.82			
			64QAM	1	0	1	1	23.0	21.89			
				1	7	1	1	23.0	22.05			
				1	14	1	1	23.0	21.88			
				8	0	2	2	22.0	20.80			
				8	4	2	2	22.0	20.81			
				8	7	2	2	22.0	20.79			
64QAM	15	0	2	2	22.0	20.80						
	1	0	2	2	22.0	21.25						
	1	7	2	2	22.0	21.28						
	1	14	2	2	22.0	21.26						
	8	0	3	3	21.0	19.93						
	8	4	3	3	21.0	19.95						
8	7	3	3	21.0	19.93							
15	0	3	3	21.0	19.88							

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
1.4	20407	824.7	QPSK	1	0	0	0	24.0	22.71	
				1	2	0	0	24.0	22.76	
				1	5	0	0	24.0	22.68	
				3	0	0	0	24.0	22.71	
				3	1	0	0	24.0	22.76	
				3	3	0	0	24.0	22.74	
			16QAM	6	0	1	1	23.0	21.77	
				1	0	1	1	23.0	21.85	
				1	2	1	1	23.0	21.95	
				1	5	1	1	23.0	21.84	
				3	0	1	1	23.0	21.97	
				3	1	1	1	23.0	22.00	
			64QAM	3	3	1	1	23.0	21.96	
				6	0	2	2	22.0	20.78	
				1	0	2	2	22.0	21.13	
				1	2	2	2	22.0	21.23	
				1	5	2	2	22.0	21.10	
				3	0	2	2	22.0	20.84	
	20525	836.5	836.5	QPSK	3	1	2	2	22.0	20.93
					3	3	2	2	22.0	20.83
					6	0	3	3	21.0	19.93
					1	0	0	0	24.0	22.81
					1	2	0	0	24.0	22.86
					1	5	0	0	24.0	22.79
				16QAM	3	0	0	0	24.0	22.92
					3	1	0	0	24.0	22.89
					3	3	0	0	24.0	22.86
					6	0	1	1	23.0	21.87
					1	0	1	1	23.0	22.11
					1	2	1	1	23.0	22.16
				64QAM	1	5	1	1	23.0	22.10
					3	0	1	1	23.0	21.97
					3	1	1	1	23.0	22.01
					3	3	1	1	23.0	21.95
					6	0	2	2	22.0	20.93
					1	0	2	2	22.0	21.10
20643	848.3	848.3	QPSK	1	2	2	2	22.0	21.22	
				1	5	2	2	22.0	21.18	
				3	0	2	2	22.0	20.79	
				3	1	2	2	22.0	20.87	
				3	3	2	2	22.0	20.80	
				6	0	3	3	21.0	19.75	
			16QAM	1	0	0	0	24.0	22.67	
				1	2	0	0	24.0	22.73	
				1	5	0	0	24.0	22.65	
				3	0	0	0	24.0	22.66	
				3	1	0	0	24.0	22.71	
				3	3	0	0	24.0	22.69	
			64QAM	6	0	1	1	23.0	21.71	
				1	0	1	1	23.0	21.82	
				1	2	1	1	23.0	21.90	
				1	5	1	1	23.0	21.80	
				3	0	1	1	23.0	21.93	
				3	1	1	1	23.0	21.95	
64QAM	3	3	1	1	23.0	21.90				
	6	0	2	2	22.0	20.72				
	1	0	2	2	22.0	21.11				
	1	2	2	2	22.0	21.20				
	1	5	2	2	22.0	21.11				
	3	0	2	2	22.0	20.81				
	3	1	2	2	22.0	20.87				
	3	3	2	2	22.0	20.80				
	6	0	3	3	21.0	19.88				

LTE Band 5 Measured Results (Reduction)

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	20450	829	QPSK	1	0	MPR is disabled when power reduction is enabled		18.7	17.90		
				1	24			18.7	17.97		
				1	49			18.7	18.08		
				25	0			18.7	17.93		
				25	12			18.7	17.95		
				25	24			18.7	18.01		
			50	0	18.7			18.00			
			16QAM	1	0			18.7	18.20		
				1	24			18.7	18.25		
				1	49			18.7	18.30		
				25	0			18.7	18.00		
				25	12			18.7	17.96		
				25	24			18.7	18.00		
			64QAM	50	0			18.7	18.04		
				1	0			18.7	18.22		
				1	24			18.7	18.24		
				1	49			18.7	18.30		
				25	0			18.7	17.96		
				25	12			18.7	17.91		
			20525	836.5	QPSK			1	0	18.7	18.07
								1	24	18.7	18.02
								1	49	18.7	17.92
								25	0	18.7	17.98
								25	12	18.7	17.96
	25	24						18.7	17.92		
	50	0			18.7			17.92			
	16QAM	1			0			18.7	18.33		
		1			24			18.7	18.32		
		1			49			18.7	18.21		
		25			0			18.7	17.99		
		25			12			18.7	18.00		
		25		24	18.7			17.94			
	64QAM	50		0	18.7			17.97			
		1		0	18.7			18.35			
		1		24	18.7			18.28			
		1		49	18.7			18.26			
		25		0	18.7			17.98			
		25		12	18.7			17.95			
	20600	844		QPSK	25			24	18.7	17.90	
					50			0	18.7	17.94	
					1			0	18.7	17.84	
					1			24	18.7	17.77	
					1			49	18.7	17.72	
			25		0			18.7	17.93		
		16QAM	25	12	18.7			17.92			
			25	24	18.7			17.87			
			50	0	18.7			17.90			
			1	0	18.7			18.16			
1			24	18.7	18.09						
1			49	18.7	18.05						
64QAM	25	0	18.7	17.94							
	25	12	18.7	17.95							
	25	24	18.7	17.89							
	50	0	18.7	17.89							
	1	0	18.7	18.30							
	1	24	18.7	18.19							
			1	49	18.7	18.16					
			25	0	18.7	17.94					
			25	12	18.7	17.93					
			25	24	18.7	17.85					
			50	0	18.7	17.93					
			50	0	18.7	17.93					

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	20450	829	QPSK	1	0	MPR is disabled when power reduction is enabled		18.7	17.90		
				1	24			18.7	17.92		
				1	49			18.7	17.95		
				25	0			18.7	17.85		
				25	12			18.7	17.97		
				25	24			18.7	17.95		
			50	0	18.7			17.94			
			16QAM	1	0			18.7	18.29		
				1	24			18.7	18.35		
				1	49			18.7	18.37		
				25	0			18.7	18.04		
				25	12			18.7	18.15		
				25	24			18.7	18.13		
			64QAM	50	0			18.7	18.01		
				1	0			18.7	18.09		
				1	24			18.7	18.13		
				1	49			18.7	18.13		
				25	0			18.7	18.01		
				25	12			18.7	18.13		
			20525	836.5	QPSK			25	24	18.7	18.14
								50	0	18.7	18.01
								1	0	18.7	17.91
								1	24	18.7	17.89
								1	49	18.7	17.87
	25	0						18.7	17.95		
	16QAM	25			12			18.7	17.96		
		25			24			18.7	17.94		
		50			0			18.7	17.93		
		1			0			18.7	18.22		
		1			24			18.7	18.19		
		1			49			18.7	18.14		
	64QAM	25	0	18.7	18.01						
		25	12	18.7	18.05						
		25	24	18.7	17.99						
		50	0	18.7	17.99						
		1	0	18.7	18.26						
		1	24	18.7	18.18						
	20600	844	QPSK	1	49			18.7	18.17		
				25	0			18.7	18.03		
				25	12			18.7	18.04		
				25	24			18.7	18.02		
				50	0			18.7	18.00		
				18.7	17.92						
			16QAM	1	24			18.7	17.85		
				1	49			18.7	17.87		
				25	0			18.7	17.86		
				25	12			18.7	17.84		
				25	24			18.7	17.85		
50				0	18.7	17.85					
64QAM	1	0	18.7	18.28							
	1	24	18.7	18.28							
	1	49	18.7	18.26							
	25	0	18.7	18.02							
	25	12	18.7	18.01							
	25	24	18.7	18.00							
50	0	18.7	17.91								
	1	0	18.7	18.07							
	1	24	18.7	18.08							
	1	49	18.7	18.06							
	25	0	18.7	18.04							
	25	12	18.7	18.01							
25	24	18.7	17.99								
50	0	18.7	17.89								

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	20450	829	QPSK	1	0	MPR is disabled when power reduction is enabled		18.7	17.87		
				1	24			18.7	17.98		
				1	49			18.7	17.96		
				25	0			18.7	17.88		
				25	12			18.7	17.87		
				25	24			18.7	17.95		
			50	0	18.7			17.84			
			16QAM	1	0			18.7	18.15		
				1	24			18.7	18.23		
				1	49			18.7	18.22		
				25	0			18.7	17.98		
				25	12			18.7	17.98		
				25	24			18.7	18.04		
			50	0	18.7			17.89			
			64QAM	1	0			18.7	18.21		
				1	24			18.7	18.30		
				1	49			18.7	18.26		
				25	0			18.7	17.88		
				25	12			18.7	17.88		
				25	24			18.7	17.96		
			20525	836.5	QPSK			1	0	18.7	17.83
								1	24	18.7	17.92
								1	49	18.7	17.85
								25	0	18.7	17.95
	25	12						18.7	17.96		
	25	24						18.7	17.92		
	50	0			18.7			17.96			
	16QAM	1			0			18.7	18.08		
		1			24			18.7	18.22		
		1			49			18.7	18.10		
		25			0			18.7	17.92		
		25			12			18.7	17.93		
		25		24	18.7			17.90			
	50	0		18.7	17.94						
	64QAM	1		0	18.7			18.30			
		1		24	18.7			18.36			
		1		49	18.7			18.32			
		25		0	18.7			18.04			
		25		12	18.7			18.04			
		25		24	18.7			18.02			
	50	0		18.7	17.99						
	20600	844		QPSK	1			0	18.7	17.75	
					1			24	18.7	17.78	
					1			49	18.7	17.70	
			25		0			18.7	17.84		
			25		12			18.7	17.83		
			25		24			18.7	17.80		
			50	0	18.7			17.85			
16QAM			1	0	18.7	17.98					
			1	24	18.7	18.09					
			1	49	18.7	17.94					
			25	0	18.7	17.81					
			25	12	18.7	17.80					
		25	24	18.7	17.77						
50		0	18.7	17.82							
64QAM		1	0	18.7	18.21						
		1	24	18.7	18.19						
		1	49	18.7	18.17						
		25	0	18.7	17.88						
		25	12	18.7	17.92						
		25	24	18.7	17.89						
50		0	18.7	17.85							

Band : 5

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	20450	829	QPSK	1	0	MPR is disabled when power reduction is enabled		18.7	17.70		
				1	24			18.7	17.80		
				1	49			18.7	17.73		
				25	0			18.7	17.80		
				25	12			18.7	17.83		
				25	24			18.7	17.79		
			50	0	18.7			17.80			
			16QAM	1	0			18.7	17.81		
				1	24			18.7	17.95		
				1	49			18.7	17.81		
				25	0			18.7	17.77		
				25	12			18.7	17.81		
				25	24			18.7	17.73		
			64QAM	50	0			18.7	17.87		
				1	0			18.7	18.13		
				1	24			18.7	18.20		
				1	49			18.7	18.09		
				25	0			18.7	17.93		
				25	12			18.7	17.97		
			20525	836.5	QPSK			25	24	18.7	17.94
								25	24	18.7	17.94
								50	0	18.7	17.79
								1	0	18.7	17.78
								1	24	18.7	17.85
	1	49						18.7	17.77		
	16QAM	25			0			18.7	17.82		
		25			12			18.7	17.89		
		25			24			18.7	17.84		
		50			0			18.7	17.88		
		1			0			18.7	18.03		
		1			24			18.7	18.11		
	64QAM	1	49	18.7	18.03						
		25	0	18.7	18.05						
		25	12	18.7	18.12						
		25	24	18.7	18.04						
		50	0	18.7	17.88						
		1	0	18.7	18.28						
	20600	844	QPSK	1	24			18.7	18.35		
				1	49			18.7	18.27		
				25	0			18.7	17.91		
				25	12			18.7	17.99		
				25	24			18.7	17.90		
				50	0			18.7	18.00		
			16QAM	1	0			18.7	17.64		
				1	24			18.7	17.71		
				1	49			18.7	17.63		
				25	0			18.7	17.71		
				25	12			18.7	17.75		
25				24	18.7	17.70					
64QAM	50	0	18.7	17.72							
	1	0	18.7	17.89							
	1	24	18.7	17.95							
	1	49	18.7	17.86							
	25	0	18.7	17.93							
	25	12	18.7	17.95							
20600	844	64QAM	25	24	18.7	17.90					
			50	0	18.7	17.74					
			1	0	18.7	18.10					
			1	24	18.7	18.21					
			1	49	18.7	18.11					
			25	0	18.7	17.80					
20600	844	64QAM	25	12	18.7	17.86					
			25	24	18.7	17.77					
			50	0	18.7	17.87					

LTE Band 7 Measured Results(Full)

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
20	20850	2510	QPSK	1	0	0	0	23.0	21.94			
				1	49	0	0	23.0	21.68			
				1	99	0	0	23.0	21.70			
				50	0	1	1	22.0	20.83			
				50	24	1	1	22.0	20.73			
				50	49	1	1	22.0	20.70			
			100	0	1	1	22.0	20.71				
			16QAM	1	0	1	1	22.0	21.33			
				1	49	1	1	22.0	21.08			
				1	99	1	1	22.0	21.10			
				50	0	2	2	21.0	19.90			
				50	24	2	2	21.0	19.77			
				50	49	2	2	21.0	19.72			
			64QAM	100	0	2	2	21.0	19.73			
				1	0	2	2	21.0	20.18			
				1	49	2	2	21.0	19.92			
				1	99	2	2	21.0	19.90			
				50	0	3	3	20.0	18.85			
				50	24	3	3	20.0	18.74			
			21100	2535	2535	QPSK	50	49	3	3	20.0	18.70
							100	0	3	3	20.0	18.72
	1	0					0	0	23.0	21.93		
	1	49					0	0	23.0	21.83		
	1	99					0	0	23.0	21.89		
	50	0					1	1	22.0	20.85		
	16QAM	50				24	1	1	22.0	20.82		
		50				49	1	1	22.0	20.77		
		100				0	1	1	22.0	20.80		
		1				0	1	1	22.0	21.05		
		1				49	1	1	22.0	21.18		
		1				99	1	1	22.0	21.20		
	64QAM	50				0	2	2	21.0	19.83		
		50				24	2	2	21.0	19.81		
		50	49	2	2	21.0	19.78					
		100	0	2	2	21.0	19.81					
		1	0	2	2	21.0	19.97					
		1	49	2	2	21.0	19.86					
	21350	2560	2560	QPSK	1	99	2	2	21.0	19.86		
					50	0	3	3	20.0	18.87		
					50	24	3	3	20.0	18.84		
					50	49	3	3	20.0	18.81		
					100	0	3	3	20.0	18.88		
					1	0	0	0	23.0	21.97		
				16QAM	1	49	0	0	23.0	21.77		
					1	99	0	0	23.0	21.66		
50					0	1	1	22.0	20.82			
50					24	1	1	22.0	20.77			
50					49	1	1	22.0	20.73			
100					0	1	1	22.0	20.78			
64QAM				1	0	1	1	22.0	21.30			
				1	49	1	1	22.0	21.09			
	1	99	1	1	22.0	21.03						
	50	0	2	2	21.0	19.79						
	50	24	2	2	21.0	19.76						
	50	49	2	2	21.0	19.72						
21350	2560	2560	QPSK	100	0	2	2	21.0	19.75			
				1	0	2	2	21.0	20.04			
				1	49	2	2	21.0	19.80			
				1	99	2	2	21.0	19.68			
				50	0	3	3	20.0	18.83			
				50	24	3	3	20.0	18.83			
			16QAM	50	49	3	3	20.0	18.78			
				100	0	3	3	20.0	18.80			

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
15	20825	2507.5	QPSK	1	0	0	0	23.0	21.88			
				1	37	0	0	23.0	21.78			
				1	74	0	0	23.0	21.64			
				36	0	1	1	22.0	20.82			
				36	19	1	1	22.0	20.77			
				36	39	1	1	22.0	20.67			
			16QAM	75	0	1	1	22.0	20.78			
				1	0	1	1	22.0	21.09			
				1	37	1	1	22.0	20.97			
				1	74	1	1	22.0	20.80			
				36	0	2	2	21.0	19.85			
				36	19	2	2	21.0	19.86			
			64QAM	36	39	2	2	21.0	19.67			
				75	0	2	2	21.0	19.72			
				1	0	2	2	21.0	20.36			
				1	37	2	2	21.0	20.38			
				1	74	2	2	21.0	20.24			
				36	0	3	3	20.0	18.87			
			21100	2535	2535	QPSK	36	19	3	3	20.0	18.82
							36	39	3	3	20.0	18.70
							75	0	3	3	20.0	18.74
							1	0	0	0	23.0	21.82
							1	37	0	0	23.0	21.74
							1	74	0	0	23.0	21.73
	16QAM	36				0	1	1	22.0	20.81		
		36				19	1	1	22.0	20.81		
		36				39	1	1	22.0	20.77		
		75				0	1	1	22.0	20.79		
		1				0	1	1	22.0	21.12		
		1				37	1	1	22.0	21.01		
	64QAM	1	74	1	1	22.0	21.01					
		36	0	2	2	21.0	19.84					
		36	19	2	2	21.0	19.83					
		36	39	2	2	21.0	19.83					
		75	0	2	2	21.0	19.78					
		1	0	2	2	21.0	20.14					
21375	2562.5	2562.5	QPSK	1	37	2	2	21.0	20.04			
				1	74	2	2	21.0	20.07			
				36	0	3	3	20.0	18.85			
				36	19	3	3	20.0	18.85			
				36	39	3	3	20.0	18.81			
				75	0	3	3	20.0	18.82			
			16QAM	1	0	0	0	23.0	21.83			
				1	37	0	0	23.0	21.70			
				1	74	0	0	23.0	21.63			
				36	0	1	1	22.0	20.82			
				36	19	1	1	22.0	20.76			
				36	39	1	1	22.0	20.61			
	64QAM	75	0	1	1	22.0	20.77					
		1	0	1	1	22.0	21.00					
		1	37	1	1	22.0	20.89					
		1	74	1	1	22.0	20.78					
		36	0	2	2	21.0	19.81					
		36	19	2	2	21.0	19.80					
	21375	2562.5	2562.5	QPSK	36	39	2	2	21.0	19.62		
					75	0	2	2	21.0	19.72		
					1	0	2	2	21.0	20.33		
					1	37	2	2	21.0	20.32		
					1	74	2	2	21.0	20.22		
					36	0	3	3	20.0	18.84		
16QAM				36	19	3	3	20.0	18.85			
				36	39	3	3	20.0	18.68			
				75	0	3	3	20.0	18.74			

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
10	20800	2505	QPSK	1	0	0	0	23.0	21.88			
				1	24	0	0	23.0	21.78			
				1	49	0	0	23.0	21.64			
				25	0	1	1	22.0	20.82			
				25	12	1	1	22.0	20.77			
				25	24	1	1	22.0	20.67			
			50	0	1	1	22.0	20.78				
			16QAM	1	0	1	1	22.0	21.09			
				1	24	1	1	22.0	20.97			
				1	49	1	1	22.0	20.80			
				25	0	2	2	21.0	19.85			
				25	12	2	2	21.0	19.86			
				25	24	2	2	21.0	19.67			
			64QAM	50	0	2	2	21.0	19.72			
				1	0	2	2	21.0	20.36			
				1	24	2	2	21.0	20.38			
				1	49	2	2	21.0	20.24			
				25	0	3	3	20.0	18.87			
				25	12	3	3	20.0	18.82			
			21100	2535	2565	QPSK	25	24	3	3	20.0	18.70
							50	0	3	3	20.0	18.74
							1	0	0	0	23.0	21.82
							1	24	0	0	23.0	21.74
							1	49	0	0	23.0	21.73
	25	0					1	1	22.0	20.81		
	16QAM	25				12	1	1	22.0	20.81		
		25				24	1	1	22.0	20.77		
		50				0	1	1	22.0	20.79		
		1				0	1	1	22.0	21.12		
		1				24	1	1	22.0	21.01		
		1				49	1	1	22.0	21.01		
	64QAM	25	0	2	2	21.0	19.84					
		25	12	2	2	21.0	19.83					
		25	24	2	2	21.0	19.83					
		50	0	2	2	21.0	19.78					
		1	0	2	2	21.0	20.14					
1		24	2	2	21.0	20.04						
21400	2565	2565	QPSK	1	49	2	2	21.0	20.07			
				25	0	3	3	20.0	18.85			
				25	12	3	3	20.0	18.85			
				25	24	3	3	20.0	18.81			
				50	0	3	3	20.0	18.82			
				1	0	0	0	23.0	21.83			
			16QAM	1	24	0	0	23.0	21.70			
				1	49	0	0	23.0	21.63			
				25	0	1	1	22.0	20.82			
				25	12	1	1	22.0	20.76			
				25	24	1	1	22.0	20.61			
				50	0	1	1	22.0	20.77			
	64QAM	1	0	1	1	22.0	21.00					
		1	24	1	1	22.0	20.89					
		1	49	1	1	22.0	20.78					
		25	0	2	2	21.0	19.81					
		25	12	2	2	21.0	19.80					
		25	24	2	2	21.0	19.62					
	2565	QPSK	50	0	2	2	21.0	19.72				
			1	0	2	2	21.0	20.33				
			1	24	2	2	21.0	20.32				
			1	49	2	2	21.0	20.22				
			25	0	3	3	20.0	18.84				
			25	12	3	3	20.0	18.85				
16QAM		25	24	3	3	20.0	18.68					
		50	0	3	3	20.0	18.74					

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	20775	2502.5	QPSK	1	0	0	0	23.0	21.85			
				1	12	0	0	23.0	21.87			
				1	24	0	0	23.0	21.86			
				12	0	1	1	22.0	20.79			
				12	6	1	1	22.0	20.83			
				12	11	1	1	22.0	20.78			
			25	0	1	1	22.0	20.76				
			16QAM	1	0	1	1	22.0	21.26			
				1	12	1	1	22.0	21.20			
				1	24	1	1	22.0	21.17			
				12	0	2	2	21.0	19.87			
				12	6	2	2	21.0	19.91			
				12	11	2	2	21.0	19.86			
			64QAM	25	0	2	2	21.0	19.81			
				1	0	2	2	21.0	20.36			
				1	12	2	2	21.0	20.35			
				1	24	2	2	21.0	20.32			
				12	0	3	3	20.0	18.71			
				12	6	3	3	20.0	18.74			
			21100	2535	2567.5	QPSK	12	11	3	3	20.0	18.70
							25	0	3	3	20.0	18.79
							1	0	0	0	23.0	21.87
							1	12	0	0	23.0	21.88
							1	24	0	0	23.0	21.86
	12	0					1	1	22.0	20.79		
	16QAM	12				6	1	1	22.0	20.81		
		12				11	1	1	22.0	20.82		
		25				0	1	1	22.0	20.80		
		1				0	1	1	22.0	21.21		
		1				12	1	1	22.0	21.19		
		1				24	1	1	22.0	21.17		
	64QAM	12	0	2	2	21.0	19.86					
		12	6	2	2	21.0	19.89					
		12	11	2	2	21.0	19.86					
		25	0	2	2	21.0	19.81					
		1	0	2	2	21.0	20.34					
1		12	2	2	21.0	20.29						
21425	2567.5	2567.5	QPSK	1	24	2	2	21.0	20.31			
				12	0	3	3	20.0	18.74			
				12	6	3	3	20.0	18.77			
				12	11	3	3	20.0	18.72			
				25	0	3	3	20.0	18.83			
				1	0	0	0	23.0	21.73			
			16QAM	1	12	0	0	23.0	21.75			
				1	24	0	0	23.0	21.70			
				12	0	1	1	22.0	20.64			
				12	6	1	1	22.0	20.66			
				12	11	1	1	22.0	20.65			
				25	0	1	1	22.0	20.66			
			64QAM	1	0	1	1	22.0	21.08			
				1	12	1	1	22.0	21.07			
				1	24	1	1	22.0	21.03			
				12	0	2	2	21.0	19.74			
				12	6	2	2	21.0	19.76			
				12	11	2	2	21.0	19.73			
64QAM	25	0	2	2	21.0	19.70						
	1	0	2	2	21.0	20.20						
	1	12	2	2	21.0	20.17						
	1	24	2	2	21.0	20.19						
	12	0	3	3	20.0	18.59						
	12	6	3	3	20.0	18.61						
12	11	3	3	20.0	18.56							
25	0	3	3	20.0	18.66							

LTE Band 7 Measured Results (Reduction)

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
20	20850	2510	QPSK	1	0	MPR is disabled when power reduction is enabled		17.9	17.22				
				1	49			17.9	16.96				
				1	99			17.9	16.98				
				50	0			17.9	17.13				
				50	24			17.9	16.98				
				50	49			17.9	16.96				
			100	0	17.9			16.97					
			16QAM	1	0			17.9	17.53				
				1	49			17.9	17.29				
				1	99			17.9	17.32				
				50	0			17.9	17.15				
				50	24			17.9	17.07				
				50	49			17.9	17.02				
			64QAM	100	0			17.9	17.00				
				1	0			17.9	17.44				
				1	49			17.9	17.17				
				1	99			17.9	17.17				
				50	0			17.9	17.20				
				50	24			17.9	17.07				
			21100	2535	2535			QPSK	50	49	17.9	17.03	
									50	49	17.9	17.02	
									100	0	17.9	17.00	
									1	0	17.9	17.15	
									1	49	17.9	17.08	
	1	99							17.9	17.06			
	50	0						17.9	17.11				
	50	24						17.9	17.08				
	50	49						17.9	17.10				
	100	0						17.9	17.07				
	16QAM	1						0	17.9	17.52			
		1						49	17.9	17.41			
		1						99	17.9	17.42			
		50						0	17.9	17.13			
		50						24	17.9	17.14			
		50						49	17.9	17.09			
	64QAM	100						0	17.9	17.13			
		1						0	17.9	17.39			
		1						49	17.9	17.27			
		1						99	17.9	17.29			
		50						0	17.9	17.15			
		50						24	17.9	17.16			
	21350	2560						2560	QPSK	50	49	17.9	17.09
										50	49	17.9	17.09
			100	0	17.9					17.11			
			1	0	17.9					17.24			
			1	49	17.9					17.07			
			1	99	17.9					16.92			
			50	0	17.9				17.11				
50			24	17.9	17.10								
50			49	17.9	17.06								
100			0	17.9	17.06								
16QAM			1	0	17.9	17.55							
			1	49	17.9	17.36							
			1	99	17.9	17.27							
			50	0	17.9	17.11							
			50	24	17.9	17.05							
			50	49	17.9	17.01							
64QAM			100	0	17.9	17.06							
			1	0	17.9	17.27							
			1	49	17.9	17.04							
			1	99	17.9	16.95							
			50	0	17.9	17.11							
			50	24	17.9	17.09							
16QAM			50	49	17.9	17.04							
			50	49	17.9	17.04							
	100	0	17.9	17.05									

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
15	20825	2507.5	QPSK	1	0	MPR is disabled when power reduction is enabled		17.9	17.24				
				1	37			17.9	17.11				
				1	74			17.9	17.03				
				36	0			17.9	17.15				
				36	19			17.9	17.10				
				36	39			17.9	16.94				
				75	0			17.9	17.08				
			16QAM	1	0			17.9	17.59				
				1	37			17.9	17.41				
				1	74			17.9	17.26				
				36	0			17.9	17.12				
				36	19			17.9	17.12				
				36	39			17.9	17.02				
				75	0			17.9	17.07				
			64QAM	1	0			17.9	17.59				
				1	37			17.9	17.47				
				1	74			17.9	17.40				
				36	0			17.9	17.10				
				36	19			17.9	17.06				
				36	39			17.9	16.96				
				75	0			17.9	17.07				
			21100	2535	2535			QPSK	1	0	17.9	17.16	
									1	37	17.9	17.03	
									1	74	17.9	17.04	
	36	0							17.9	17.14			
	36	19							17.9	17.10			
	36	39							17.9	17.07			
	75	0							17.9	17.10			
	16QAM	1						0	17.9	17.42			
		1						37	17.9	17.31			
		1						74	17.9	17.35			
		36						0	17.9	17.16			
		36						19	17.9	17.16			
		36						39	17.9	17.09			
		75						0	17.9	17.07			
	64QAM	1						0	17.9	17.40			
		1						37	17.9	17.32			
		1						74	17.9	17.36			
		36						0	17.9	17.11			
		36						19	17.9	17.15			
		36						39	17.9	17.11			
		75						0	17.9	17.09			
	21375	2562.5						2562.5	QPSK	1	0	17.9	17.12
										1	37	17.9	16.98
										1	74	17.9	16.90
			36	0	17.9					17.10			
			36	19	17.9					17.06			
			36	39	17.9					16.93			
75			0	17.9	17.03								
16QAM			1	0	17.9	17.36							
			1	37	17.9	17.30							
			1	74	17.9	17.17							
			36	0	17.9	17.12							
			36	19	17.9	17.10							
			36	39	17.9	16.93							
			75	0	17.9	17.05							
16QAM			1	0	17.9	17.42							
			1	37	17.9	17.32							
			1	74	17.9	17.22							
			36	0	17.9	17.10							
			36	19	17.9	17.08							
			36	39	17.9	16.95							
			75	0	17.9	17.06							

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
10	20800	2505	QPSK	1	0	MPR is disabled when power reduction is enabled		17.9	17.05				
				1	24			17.9	17.00				
				1	49			17.9	16.87				
				25	0			17.9	17.06				
				25	12			17.9	17.09				
				25	24			17.9	17.04				
			50	0	17.9			17.06					
			16QAM	1	0			17.9	17.32				
				1	24			17.9	17.30				
				1	49			17.9	17.19				
				25	0			17.9	17.12				
				25	12			17.9	17.13				
				25	24			17.9	17.10				
			64QAM	50	0			17.9	17.06				
				1	0			17.9	17.51				
				1	24			17.9	17.46				
				1	49			17.9	17.36				
				25	0			17.9	17.12				
				25	12			17.9	17.10				
			21100	2535	2535			QPSK	1	0	17.9	17.08	
									1	24	17.9	17.05	
									1	49	17.9	17.03	
									25	0	17.9	17.07	
									25	12	17.9	17.10	
	25	24							17.9	17.06			
	50	0						17.9	17.08				
	16QAM	1						0	17.9	17.38			
		1						24	17.9	17.37			
		1						49	17.9	17.34			
		25						0	17.9	17.03			
		25						12	17.9	17.03			
		25						24	17.9	17.04			
	64QAM	50						0	17.9	17.05			
		1						0	17.9	17.42			
		1						24	17.9	17.40			
		1						49	17.9	17.35			
		25						0	17.9	17.10			
		25						12	17.9	17.11			
	21400	2565						2565	QPSK	1	0	17.9	17.05
										1	24	17.9	16.97
										1	49	17.9	16.96
										25	0	17.9	16.83
										25	12	17.9	17.02
			25	24	17.9					17.04			
			50	0	17.9				16.92				
			16QAM	1	0				17.9	17.05			
				1	24				17.9	17.28			
				1	49				17.9	17.23			
25				0	17.9	17.11							
25				12	17.9	17.07							
25				24	17.9	17.10							
16QAM			50	0	17.9	16.90							
			1	0	17.9	17.01							
			1	24	17.9	17.40							
			1	49	17.9	17.44							
			25	0	17.9	17.33							
			25	12	17.9	17.04							
16QAM			25	24	17.9	17.05							
			25	24	17.9	16.97							
			50	0	17.9	16.97							
			50	0	17.9	17.07							

Band : 7

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
5	20775	2502.5	QPSK	1	0	MPR is disabled when power reduction is enabled		17.9	17.04				
				1	12			17.9	17.03				
				1	24			17.9	17.01				
				12	0			17.9	17.10				
				12	6			17.9	17.09				
				12	11			17.9	17.08				
			16QAM	25	0			17.9	17.05				
				1	0			17.9	17.30				
				1	12			17.9	17.33				
				1	24			17.9	17.28				
				12	0			17.9	17.10				
				12	6			17.9	17.14				
			64QAM	12	11			17.9	17.10				
				25	0			17.9	17.03				
				1	0			17.9	17.29				
				1	12			17.9	17.27				
				1	24			17.9	17.24				
				12	0			17.9	17.16				
			21100	2535	2535			QPSK	12	6	17.9	17.14	
									12	11	17.9	17.13	
									25	0	17.9	17.09	
									1	0	17.9	17.03	
									1	12	17.9	17.05	
									1	24	17.9	17.04	
	16QAM	12						0	17.9	17.08			
		12						6	17.9	17.10			
		12						11	17.9	17.12			
		25						0	17.9	17.07			
		1						0	17.9	17.30			
		1						12	17.9	17.31			
	64QAM	1						24	17.9	17.30			
		12						0	17.9	17.12			
		12						6	17.9	17.16			
		12						11	17.9	17.14			
		25						0	17.9	17.10			
		1						0	17.9	17.33			
	21425	2567.5						2567.5	QPSK	1	12	17.9	17.18
										1	24	17.9	17.15
										12	0	17.9	17.10
										12	6	17.9	16.90
										12	11	17.9	16.89
										25	0	17.9	16.87
			16QAM	12	0				17.9	16.93			
				12	6				17.9	17.00			
				12	11				17.9	16.94			
				25	0				17.9	16.93			
				1	0				17.9	17.20			
				1	12				17.9	17.20			
16QAM	1	24	17.9	17.16									
	12	0	17.9	17.01									
	12	6	17.9	17.03									
	12	11	17.9	17.01									
	25	0	17.9	16.92									
	1	0	17.9	17.17									
16QAM	1	12	17.9	17.20									
	1	24	17.9	17.12									
	12	0	17.9	17.05									
	12	6	17.9	17.04									
	12	11	17.9	17.03									
	25	0	17.9	16.97									

LTE Band 12 Measured Results(Full)

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
10	23060	704	QPSK	1	0	0	0	24.0	22.64			
				1	24	0	0	24.0	22.78			
				1	49	0	0	24.0	22.73			
				25	0	1	1	23.0	21.78			
				25	12	1	1	23.0	21.89			
				25	24	1	1	23.0	21.83			
			50	0	1	1	23.0	21.87				
			16QAM	1	0	1	1	23.0	21.92			
				1	24	1	1	23.0	22.10			
				1	49	1	1	23.0	21.97			
				25	0	2	2	22.0	20.82			
				25	12	2	2	22.0	20.90			
				25	24	2	2	22.0	20.82			
			64QAM	50	0	2	2	22.0	20.88			
				1	0	2	2	22.0	21.13			
				1	24	2	2	22.0	21.26			
				1	49	2	2	22.0	21.17			
				25	0	3	3	21.0	19.82			
				25	12	3	3	21.0	19.90			
			23095	707.5	711	QPSK	25	24	3	3	21.0	19.86
							25	24	3	3	21.0	19.79
	50	0					3	3	21.0	19.90		
	1	0					0	0	24.0	22.67		
	1	24					0	0	24.0	22.75		
	1	49					0	0	24.0	22.64		
	16QAM	25				0	1	1	23.0	21.86		
		25				12	1	1	23.0	21.79		
		25				24	1	1	23.0	21.77		
		50	0	1	1	23.0	21.82					
		1	0	1	1	23.0	22.00					
		1	24	1	1	23.0	22.04					
	64QAM	1	49	1	1	23.0	21.98					
		25	0	2	2	22.0	20.85					
		25	12	2	2	22.0	20.85					
		25	24	2	2	22.0	20.77					
		50	0	2	2	22.0	20.83					
		1	0	2	2	22.0	21.15					
		1	24	2	2	22.0	21.17					
		1	49	2	2	22.0	21.11					
		25	0	3	3	21.0	19.85					
	23130	711	711	QPSK	25	12	3	3	21.0	19.83		
					25	24	3	3	21.0	19.79		
					50	0	3	3	21.0	19.87		
					1	0	0	0	24.0	22.72		
					1	24	0	0	24.0	22.64		
1					49	0	0	24.0	22.79			
16QAM				25	0	1	1	23.0	21.79			
				25	12	1	1	23.0	21.78			
				25	24	1	1	23.0	21.67			
				50	0	1	1	23.0	21.73			
				1	0	1	1	23.0	21.94			
				1	24	1	1	23.0	21.88			
64QAM				1	49	1	1	23.0	21.96			
				25	0	2	2	22.0	20.83			
				25	12	2	2	22.0	20.82			
	25	24	2	2	22.0	20.73						
	50	0	2	2	22.0	20.76						
	1	0	2	2	22.0	21.20						
	1	24	2	2	22.0	21.18						
	1	49	2	2	22.0	21.27						
	25	0	3	3	21.0	19.80						
25	12	3	3	21.0	19.79							
25	24	3	3	21.0	19.70							
50	0	3	3	21.0	19.76							

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
5	23035	701.5	QPSK	1	0	0	0	24.0	22.66				
				1	12	0	0	24.0	22.65				
				1	24	0	0	24.0	22.68				
				12	0	1	1	23.0	21.65				
				12	6	1	1	23.0	21.77				
				12	11	1	1	23.0	21.75				
			25	0	1	1	23.0	21.80					
			16QAM	1	0	1	1	23.0	21.92				
				1	12	1	1	23.0	21.98				
				1	24	1	1	23.0	21.97				
				12	0	2	2	22.0	20.74				
				12	6	2	2	22.0	20.85				
				12	11	2	2	22.0	20.82				
			25	0	2	2	22.0	20.88					
			64QAM	1	0	2	2	22.0	20.91				
				1	12	2	2	22.0	20.95				
				1	24	2	2	22.0	20.96				
				12	0	3	3	21.0	19.83				
				12	6	3	3	21.0	19.93				
				12	11	3	3	21.0	19.84				
			25	0	3	3	21.0	19.86					
			23095	707.5	707.5	QPSK	1	0	0	0	24.0	22.84	
							1	12	0	0	24.0	22.79	
							1	24	0	0	24.0	22.78	
							12	0	1	1	23.0	21.81	
							12	6	1	1	23.0	21.81	
							12	11	1	1	23.0	21.80	
	25	0				1	1	23.0	21.81				
	16QAM	1				0	1	1	23.0	22.21			
		1				12	1	1	23.0	22.16			
		1				24	1	1	23.0	22.14			
		12				0	2	2	22.0	20.96			
		12				6	2	2	22.0	20.97			
		12				11	2	2	22.0	20.92			
	25	0				2	2	22.0	20.86				
	64QAM	1				0	2	2	22.0	21.09			
		1				12	2	2	22.0	21.04			
		1				24	2	2	22.0	21.01			
		12				0	3	3	21.0	19.98			
		12				6	3	3	21.0	19.98			
		12				11	3	3	21.0	19.95			
	25	0				3	3	21.0	19.88				
	23155	713.5				713.5	QPSK	1	0	0	0	24.0	22.66
								1	12	0	0	24.0	22.74
								1	24	0	0	24.0	22.82
12								0	1	1	23.0	21.70	
12								6	1	1	23.0	21.80	
12								11	1	1	23.0	21.82	
25			0	1	1		23.0	21.74					
16QAM			1	0	1		1	23.0	21.95				
			1	12	1		1	23.0	22.01				
			1	24	1		1	23.0	22.09				
			12	0	2		2	22.0	20.78				
			12	6	2		2	22.0	20.87				
			12	11	2		2	22.0	20.84				
25			0	2	2		22.0	20.75					
64QAM			1	0	2		2	22.0	20.95				
			1	12	2		2	22.0	20.98				
			1	24	2		2	22.0	21.08				
			12	0	3		3	21.0	19.87				
			12	6	3		3	21.0	19.93				
			12	11	3		3	21.0	19.89				
25			0	3	3		21.0	19.77					

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
3	23025	700.5	QPSK	1	0	0	0	24.0	22.64				
				1	7	0	0	24.0	22.75				
				1	14	0	0	24.0	22.69				
				8	0	1	1	23.0	21.71				
				8	4	1	1	23.0	21.80				
				8	7	1	1	23.0	21.74				
			15	0	1	1	23.0	21.70					
			16QAM	1	0	1	1	23.0	21.79				
				1	7	1	1	23.0	21.89				
				1	14	1	1	23.0	21.81				
				8	0	2	2	22.0	20.71				
				8	4	2	2	22.0	20.81				
				8	7	2	2	22.0	20.76				
			64QAM	15	0	2	2	22.0	20.62				
				1	0	2	2	22.0	21.05				
				1	7	2	2	22.0	21.21				
				1	14	2	2	22.0	21.08				
				8	0	3	3	21.0	19.87				
				8	4	3	3	21.0	19.94				
			23095	707.5	707.5	QPSK	8	7	3	3	21.0	19.89	
							15	0	3	3	21.0	19.72	
							1	0	0	0	24.0	22.74	
							1	7	0	0	24.0	22.82	
							1	14	0	0	24.0	22.70	
							8	0	1	1	23.0	21.76	
						16QAM	8	4	1	1	23.0	21.78	
							8	7	1	1	23.0	21.76	
	15	0					1	1	23.0	21.81			
	1	0					1	1	23.0	22.05			
	1	7					1	1	23.0	22.13			
	1	14					1	1	23.0	21.98			
	64QAM	8				0	2	2	22.0	20.90			
		8				4	2	2	22.0	20.87			
		8				7	2	2	22.0	20.84			
		15				0	2	2	22.0	20.76			
		1				0	2	2	22.0	21.03			
		1				7	2	2	22.0	21.14			
	23165	714.5				714.5	QPSK	1	14	2	2	22.0	20.99
								8	0	3	3	21.0	19.76
								8	4	3	3	21.0	19.79
								8	7	3	3	21.0	19.75
								15	0	3	3	21.0	19.73
								1	0	0	0	24.0	22.77
							16QAM	1	7	0	0	24.0	22.81
								1	14	0	0	24.0	22.80
8								0	1	1	23.0	21.77	
8			4	1	1			23.0	21.83				
8			7	1	1			23.0	21.88				
15			0	1	1			23.0	21.80				
64QAM			1	0	1		1	23.0	21.84				
			1	7	1		1	23.0	21.96				
			1	14	1		1	23.0	21.95				
			8	0	2		2	22.0	20.79				
			8	4	2		2	22.0	20.75				
			8	7	2		2	22.0	20.82				
64QAM			15	0	2		2	22.0	20.79				
			1	0	2		2	22.0	21.23				
			1	7	2		2	22.0	21.31				
			1	14	2		2	22.0	21.25				
			8	0	3		3	21.0	19.95				
			8	4	3		3	21.0	19.91				
			8	7	3		3	21.0	19.99				
			15	0	3		3	21.0	19.84				

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
1.4	23017	699.7	QPSK	1	0	0	0	24.0	22.56	
				1	2	0	0	24.0	22.61	
				1	5	0	0	24.0	22.52	
				3	0	0	0	24.0	22.59	
				3	1	0	0	24.0	22.64	
				3	3	0	0	24.0	22.58	
			16QAM	6	0	1	1	23.0	21.58	
				1	0	1	1	23.0	21.68	
				1	2	1	1	23.0	21.76	
				1	5	1	1	23.0	21.68	
				3	0	1	1	23.0	21.80	
				3	1	1	1	23.0	21.84	
			64QAM	3	3	1	1	23.0	21.76	
				6	0	2	2	22.0	20.58	
				1	0	2	2	22.0	20.96	
				1	2	2	2	22.0	21.05	
				1	5	2	2	22.0	20.97	
				3	0	2	2	22.0	20.71	
	23095	707.5	707.5	QPSK	3	1	2	2	22.0	20.76
					3	3	2	2	22.0	20.70
					6	0	3	3	21.0	19.72
					1	0	0	0	24.0	22.66
					1	2	0	0	24.0	22.70
					1	5	0	0	24.0	22.63
				16QAM	3	0	0	0	24.0	22.70
					3	1	0	0	24.0	22.77
					3	3	0	0	24.0	22.66
					6	0	1	1	23.0	21.70
					1	0	1	1	23.0	21.93
					1	2	1	1	23.0	22.01
				64QAM	1	5	1	1	23.0	21.92
					3	0	1	1	23.0	21.83
					3	1	1	1	23.0	21.86
					3	3	1	1	23.0	21.81
					6	0	2	2	22.0	20.75
					1	0	2	2	22.0	21.00
23173	715.3	715.3	QPSK	1	2	2	2	22.0	21.05	
				1	5	2	2	22.0	20.94	
				3	0	2	2	22.0	20.61	
				3	1	2	2	22.0	20.69	
				3	3	2	2	22.0	20.60	
				6	0	3	3	21.0	19.62	
			16QAM	1	0	0	0	24.0	22.73	
				1	2	0	0	24.0	22.77	
				1	5	0	0	24.0	22.72	
				3	0	0	0	24.0	22.77	
				3	1	0	0	24.0	22.83	
				3	3	0	0	24.0	22.78	
			64QAM	6	0	1	1	23.0	21.78	
				1	0	1	1	23.0	21.88	
				1	2	1	1	23.0	21.96	
				1	5	1	1	23.0	21.88	
				3	0	1	1	23.0	21.95	
				3	1	1	1	23.0	21.99	
64QAM	3	3	1	1	23.0	21.91				
	6	0	2	2	22.0	20.83				
	1	0	2	2	22.0	21.15				
	1	2	2	2	22.0	21.25				
	1	5	2	2	22.0	21.16				
	3	0	2	2	22.0	20.83				
64QAM	3	1	2	2	22.0	20.90				
	3	3	2	2	22.0	20.83				
	6	0	3	3	21.0	19.94				

LTE Band 12 Measured Results (Reduction)

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
10	23060	704	QPSK	1	0	MPR is disabled when power reduction is enabled		20.4	19.19				
				1	24			20.4	19.35				
				1	49			20.4	19.25				
				25	0			20.4	19.31				
				25	12			20.4	19.45				
				25	24			20.4	19.40				
			50	0	20.4			19.42					
			16QAM	1	0			20.4	19.43				
				1	24			20.4	19.60				
				1	49			20.4	19.54				
				25	0			20.4	19.41				
				25	12			20.4	19.49				
				25	24			20.4	19.43				
			64QAM	50	0			20.4	19.41				
				1	0			20.4	19.64				
				1	24			20.4	19.78				
				1	49			20.4	19.71				
				25	0			20.4	19.42				
				25	12			20.4	19.51				
			23095	707.5	707.5			QPSK	25	24	20.4	19.45	
									50	0	20.4	19.50	
									1	0	20.4	19.28	
									1	24	20.4	19.24	
									1	49	20.4	19.21	
	25	0							20.4	19.43			
	25	12						20.4	19.42				
	25	24						20.4	19.37				
	50	0						20.4	19.41				
	16QAM	1						0	20.4	19.50			
		1						24	20.4	19.56			
		1						49	20.4	19.47			
		25						0	20.4	19.44			
		25						12	20.4	19.43			
		25						24	20.4	19.41			
	64QAM	50						0	20.4	19.42			
		1						0	20.4	19.70			
		1						24	20.4	19.65			
		1						49	20.4	19.66			
		25						0	20.4	19.48			
		25						12	20.4	19.46			
	23130	711						711	QPSK	25	24	20.4	19.39
										50	0	20.4	19.47
										1	0	20.4	19.26
			1	24	20.4					19.25			
			1	49	20.4					19.40			
			25	0	20.4					19.37			
			25	12	20.4				19.36				
			25	24	20.4				19.27				
50			0	20.4	19.32								
16QAM			1	0	20.4	19.55							
			1	24	20.4	19.50							
			1	49	20.4	19.62							
			25	0	20.4	19.38							
			25	12	20.4	19.37							
			25	24	20.4	19.31							
64QAM			50	0	20.4	19.34							
			1	0	20.4	19.76							
			1	24	20.4	19.72							
			1	49	20.4	19.82							
			25	0	20.4	19.42							
			25	12	20.4	19.38							
			25	24	20.4	19.32							
			50	0	20.4	19.38							

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	23035	701.5	QPSK	1	0	MPR is disabled when power reduction is enabled		20.4	19.27
				1	12			20.4	19.33
				1	24			20.4	19.32
				12	0			20.4	19.27
				12	6			20.4	19.39
				12	11			20.4	19.36
				25	0			20.4	19.40
			16QAM	1	0			20.4	19.51
				1	12			20.4	19.62
				1	24			20.4	19.58
				12	0			20.4	19.30
				12	6			20.4	19.45
				12	11			20.4	19.41
				25	0			20.4	19.47
			64QAM	1	0			20.4	19.56
				1	12			20.4	19.62
				1	24			20.4	19.56
				12	0			20.4	19.45
				12	6			20.4	19.53
				12	11			20.4	19.46
				25	0			20.4	19.42
	23095	707.5	QPSK	1	0			20.4	19.42
				1	12			20.4	19.38
				1	24			20.4	19.35
				12	0			20.4	19.42
				12	6			20.4	19.45
				12	11			20.4	19.40
				25	0			20.4	19.39
			16QAM	1	0			20.4	19.67
				1	12			20.4	19.66
				1	24			20.4	19.59
				12	0			20.4	19.49
				12	6			20.4	19.51
				12	11			20.4	19.43
				25	0			20.4	19.31
			64QAM	1	0			20.4	19.69
				1	12			20.4	19.63
				1	24			20.4	19.61
				12	0			20.4	19.51
				12	6			20.4	19.49
				12	11			20.4	19.46
				25	0			20.4	19.46
	23155	713.5	QPSK	1	0			20.4	19.34
				1	12			20.4	19.37
				1	24			20.4	19.44
12				0	20.4	19.33			
12				6	20.4	19.44			
12				11	20.4	19.40			
25				0	20.4	19.31			
16QAM			1	0	20.4	19.58			
			1	12	20.4	19.66			
			1	24	20.4	19.69			
			12	0	20.4	19.36			
			12	6	20.4	19.52			
			12	11	20.4	19.45			
			25	0	20.4	19.37			
64QAM			1	0	20.4	19.62			
			1	12	20.4	19.64			
			1	24	20.4	19.72			
			12	0	20.4	19.48			
			12	6	20.4	19.55			
			12	11	20.4	19.49			
			25	0	20.4	19.34			

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
3	23025	700.5	QPSK	1	0	MPR is disabled when power reduction is enabled		20.4	19.21		
				1	7			20.4	19.28		
				1	14			20.4	19.29		
				8	0			20.4	19.28		
				8	4			20.4	19.37		
				8	7			20.4	19.34		
				15	0			20.4	19.29		
			16QAM	1	0			20.4	19.41		
				1	7			20.4	19.51		
				1	14			20.4	19.44		
				8	0			20.4	19.29		
				8	4			20.4	19.40		
				8	7			20.4	19.35		
				15	0			20.4	19.17		
			64QAM	1	0			20.4	19.70		
				1	7			20.4	19.71		
				1	14			20.4	19.74		
				8	0			20.4	19.43		
				8	4			20.4	19.52		
				8	7			20.4	19.49		
				15	0			20.4	19.29		
			23095	707.5	QPSK			1	0	20.4	19.35
								1	7	20.4	19.39
								1	14	20.4	19.31
	8	0						20.4	19.38		
	8	4						20.4	19.41		
	8	7						20.4	19.36		
	15	0						20.4	19.37		
	16QAM	1			0			20.4	19.55		
		1			7			20.4	19.67		
		1			14			20.4	19.50		
		8			0			20.4	19.29		
		8			4			20.4	19.31		
		8			7			20.4	19.31		
		15			0			20.4	19.38		
	64QAM	1			0			20.4	19.77		
		1			7			20.4	19.88		
		1			14			20.4	19.79		
		8			0			20.4	19.50		
		8			4			20.4	19.52		
		8			7			20.4	19.48		
		15			0			20.4	19.46		
	23165	714.5			QPSK			1	0	20.4	19.36
								1	7	20.4	19.42
								1	14	20.4	19.41
			8	0				20.4	19.43		
			8	4				20.4	19.44		
			8	7				20.4	19.53		
15			0	20.4		19.38					
16QAM			1	0	20.4	19.57					
			1	7	20.4	19.68					
			1	14	20.4	19.64					
			8	0	20.4	19.40					
			8	4	20.4	19.43					
			8	7	20.4	19.45					
			15	0	20.4	19.35					
64QAM			1	0	20.4	19.81					
			1	7	20.4	19.89					
			1	14	20.4	19.86					
			8	0	20.4	19.56					
			8	4	20.4	19.56					
			8	7	20.4	19.62					
			15	0	20.4	19.45					

Band : 12

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
1.4	23017	699.7	QPSK	1	0	MPR is disabled when power reduction is enabled		20.4	19.33		
				1	2			20.4	19.39		
				1	5			20.4	19.32		
				3	0			20.4	19.49		
				3	1			20.4	19.50		
				3	3			20.4	19.41		
			16QAM	6	0			20.4	19.42		
				1	0			20.4	19.64		
				1	2			20.4	19.72		
				1	5			20.4	19.67		
				3	0			20.4	19.54		
				3	1			20.4	19.59		
			64QAM	3	3			20.4	19.55		
				6	0			20.4	19.47		
				1	0			20.4	19.70		
				1	2			20.4	19.78		
				1	5			20.4	19.66		
				3	0			20.4	19.39		
			23095	707.5	QPSK			3	1	20.4	19.40
								3	3	20.4	19.33
								6	0	20.4	19.31
								1	0	20.4	19.12
								1	2	20.4	19.22
								1	5	20.4	19.11
	16QAM	3			0			20.4	19.18		
		3			1			20.4	19.22		
		3			3			20.4	19.17		
		6			0			20.4	19.20		
		1			0			20.4	19.29		
		1			2			20.4	19.41		
	64QAM	1			5			20.4	19.28		
		3			0			20.4	19.40		
		3			1			20.4	19.44		
		3			3			20.4	19.37		
		6			0			20.4	19.18		
		1			0			20.4	19.58		
	23173	715.3			QPSK			1	2	20.4	19.70
								1	5	20.4	19.60
								3	0	20.4	19.33
								3	1	20.4	19.39
								3	3	20.4	19.29
								6	0	20.4	19.32
			16QAM	1	0			20.4	19.23		
				1	2			20.4	19.26		
				1	5			20.4	19.19		
				3	0			20.4	19.32		
				3	1			20.4	19.35		
				3	3			20.4	19.28		
64QAM			6	0	20.4	19.33					
			1	0	20.4	19.43					
			1	2	20.4	19.53					
			1	5	20.4	19.43					
			3	0	20.4	19.48					
			3	1	20.4	19.51					
64QAM			3	3	20.4	19.49					
			6	0	20.4	19.31					
			1	0	20.4	19.68					
			1	2	20.4	19.72					
			1	5	20.4	19.62					
			3	0	20.4	19.39					
	3	1	20.4	19.44							
	3	3	20.4	19.35							
	6	0	20.4	19.35							
	6	0	20.4	19.48							

LTE Band 13 Measured Results(Full)

Band : 13

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	23230	782	QPSK	1	0	0	0	24.0	22.70
				1	24	0	0	24.0	22.60
				1	49	0	0	24.0	22.68
				25	0	1	1	23.0	21.79
				25	12	1	1	23.0	21.71
				25	24	1	1	23.0	21.81
				50	0	1	1	23.0	21.80
			16QAM	1	0	1	1	23.0	21.89
				1	24	1	1	23.0	21.89
				1	49	1	1	23.0	21.92
				25	0	2	2	22.0	20.88
				25	12	2	2	22.0	20.81
				25	24	2	2	22.0	20.77
				50	0	2	2	22.0	20.85
			64QAM	1	0	2	2	22.0	21.20
				1	24	2	2	22.0	21.13
				1	49	2	2	22.0	21.20
				25	0	3	3	21.0	19.91
				25	12	3	3	21.0	19.83
				25	24	3	3	21.0	19.79
				50	0	3	3	21.0	19.89

Band : 13

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	23205	779.5	QPSK	1	0	0	0	24.0	22.74			
				1	12	0	0	24.0	22.86			
				1	24	0	0	24.0	22.84			
				12	0	1	1	23.0	21.73			
				12	6	1	1	23.0	21.86			
				12	11	1	1	23.0	21.81			
			25	0	1	1	23.0	21.82				
			16QAM	1	0	1	1	23.0	22.15			
				1	12	1	1	23.0	22.23			
				1	24	1	1	23.0	22.19			
				12	0	2	2	22.0	20.82			
				12	6	2	2	22.0	20.92			
				12	11	2	2	22.0	20.89			
			25	0	2	2	22.0	20.85				
			64QAM	1	0	2	2	22.0	21.03			
				1	12	2	2	22.0	21.11			
				1	24	2	2	22.0	21.17			
				12	0	3	3	21.0	19.83			
				12	6	3	3	21.0	19.92			
				12	11	3	3	21.0	19.89			
			25	0	3	3	21.0	19.83				
			23230	782	782	QPSK	1	0	0	0	24.0	22.88
							1	12	0	0	24.0	22.69
							1	24	0	0	24.0	22.82
	12	0					1	1	23.0	21.81		
	12	6					1	1	23.0	21.69		
	12	11					1	1	23.0	21.68		
	25	0				1	1	23.0	21.77			
	16QAM	1				0	1	1	23.0	22.24		
		1				12	1	1	23.0	22.15		
		1				24	1	1	23.0	22.18		
		12				0	2	2	22.0	21.00		
		12				6	2	2	22.0	20.90		
		12				11	2	2	22.0	20.85		
	25	0				2	2	22.0	20.77			
	64QAM	1				0	2	2	22.0	21.12		
1		12				2	2	22.0	20.96			
1		24				2	2	22.0	21.03			
12		0				3	3	21.0	20.00			
12		6				3	3	21.0	19.92			
12		11				3	3	21.0	19.91			
25	0	3				3	21.0	19.78				
23255	784.5	784.5				QPSK	1	0	0	0	24.0	22.67
							1	12	0	0	24.0	22.76
							1	24	0	0	24.0	22.75
				12	0		1	1	23.0	21.71		
				12	6		1	1	23.0	21.79		
				12	11		1	1	23.0	21.76		
				25	0	1	1	23.0	21.78			
				16QAM	1	0	1	1	23.0	21.93		
					1	12	1	1	23.0	22.05		
					1	24	1	1	23.0	21.99		
					12	0	2	2	22.0	20.81		
					12	6	2	2	22.0	20.89		
					12	11	2	2	22.0	20.86		
				25	0	2	2	22.0	20.77			
				64QAM	1	0	2	2	22.0	20.96		
			1		12	2	2	22.0	21.01			
			1		24	2	2	22.0	21.01			
			12		0	3	3	21.0	19.80			
			12		6	3	3	21.0	19.91			
			12		11	3	3	21.0	19.86			
			25	0	3	3	21.0	19.83				

LTE Band 13 Measured Results (Reduction)

Band : 13

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	23230	782	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.37
				1	24			19.2	18.33
				1	49			19.2	18.35
				25	0			19.2	18.54
				25	12			19.2	18.42
				25	24			19.2	18.41
			50	0	19.2			18.51	
			16QAM	1	0			19.2	18.64
				1	24			19.2	18.61
				1	49			19.2	18.67
				25	0			19.2	18.59
				25	12			19.2	18.45
				25	24			19.2	18.40
			50	0	19.2			18.47	
			64QAM	1	0			19.2	18.80
				1	24			19.2	18.82
				1	49			19.2	18.82
				25	0			19.2	18.53
				25	12			19.2	18.47
				25	24			19.2	18.46
			50	0	19.2			18.51	

Band : 13

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
5	23205	779.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.52				
				1	12			19.2	18.57				
				1	24			19.2	18.56				
				12	0			19.2	18.41				
				12	6			19.2	18.58				
				12	11			19.2	18.54				
			16QAM	25	0			19.2	18.51				
				1	0			19.2	18.82				
				1	12			19.2	18.88				
				1	24			19.2	18.85				
				12	0			19.2	18.50				
				12	6			19.2	18.64				
			64QAM	12	11			19.2	18.58				
				25	0			19.2	18.58				
				1	0			19.2	18.95				
				1	12			19.2	18.95				
				1	24			19.2	18.96				
				12	0			19.2	18.34				
			23230	782	782			QPSK	12	6	19.2	18.44	
									12	11	19.2	18.41	
									25	0	19.2	18.51	
									1	0	19.2	18.58	
									1	12	19.2	18.41	
									1	24	19.2	18.53	
	16QAM	12						0	19.2	18.52			
		12						6	19.2	18.46			
		12						11	19.2	18.39			
		25						0	19.2	18.39			
		1						0	19.2	18.95			
		1						12	19.2	18.77			
	64QAM	1						24	19.2	18.87			
		12						0	19.2	18.68			
		12						6	19.2	18.56			
		12						11	19.2	18.52			
		25						0	19.2	18.45			
		1						0	19.2	18.76			
	23255	784.5						784.5	QPSK	1	12	19.2	18.62
										1	24	19.2	18.68
										12	0	19.2	18.69
										12	6	19.2	18.61
										12	11	19.2	18.59
										25	0	19.2	18.43
			16QAM	1	0				19.2	18.38			
				1	12				19.2	18.45			
				1	24				19.2	18.43			
				12	0				19.2	18.41			
				12	6				19.2	18.51			
				12	11				19.2	18.50			
64QAM			25	0	19.2	18.45							
			1	0	19.2	18.61							
			1	12	19.2	18.76							
			1	24	19.2	18.70							
			12	0	19.2	18.47							
			12	6	19.2	18.62							
64QAM			12	11	19.2	18.54							
			25	0	19.2	18.41							
			1	0	19.2	18.65							
			1	12	19.2	18.66							
			1	24	19.2	18.68							
			12	0	19.2	18.45							
64QAM	12	6	19.2	18.54									
	12	11	19.2	18.54									
	25	0	19.2	18.51									

LTE Band 14 Measured Results(Full)

Band : 14

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	23330	793	QPSK	1	0	0	0	24.0	22.77
				1	24	0	0	24.0	22.70
				1	49	0	0	24.0	22.73
				25	0	1	1	23.0	21.80
				25	12	1	1	23.0	21.81
				25	24	1	1	23.0	21.77
				50	0	1	1	23.0	21.81
			16QAM	1	0	1	1	23.0	21.99
				1	24	1	1	23.0	21.94
				1	49	1	1	23.0	21.96
				25	0	2	2	22.0	20.87
				25	12	2	2	22.0	20.89
				25	24	2	2	22.0	20.81
				50	0	2	2	22.0	20.81
			64QAM	1	0	2	2	22.0	21.26
				1	24	2	2	22.0	21.18
				1	49	2	2	22.0	21.22
				25	0	3	3	21.0	19.89
				25	12	3	3	21.0	19.86
				25	24	3	3	21.0	19.83
				50	0	3	3	21.0	19.85

Band : 14

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
5	23305	790.5	QPSK	1	0	0	0	24.0	22.79				
				1	12	0	0	24.0	22.75				
				1	24	0	0	24.0	22.76				
				12	0	1	1	23.0	21.83				
				12	6	1	1	23.0	21.82				
				12	11	1	1	23.0	21.78				
			25	0	1	1	23.0	21.82					
			16QAM	1	0	1	1	23.0	22.06				
				1	12	1	1	23.0	22.06				
				1	24	1	1	23.0	22.03				
				12	0	2	2	22.0	20.90				
				12	6	2	2	22.0	20.95				
				12	11	2	2	22.0	20.87				
			25	0	2	2	22.0	20.86					
			64QAM	1	0	2	2	22.0	21.06				
				1	12	2	2	22.0	21.02				
				1	24	2	2	22.0	21.00				
				12	0	3	3	21.0	19.96				
				12	6	3	3	21.0	19.96				
				12	11	3	3	21.0	19.89				
			25	0	3	3	21.0	19.88					
			23330	793	793	QPSK	1	0	0	0	24.0	22.84	
							1	12	0	0	24.0	22.79	
							1	24	0	0	24.0	22.76	
							12	0	1	1	23.0	21.81	
							12	6	1	1	23.0	21.79	
							12	11	1	1	23.0	21.78	
	25	0				1	1	23.0	21.84				
	16QAM	1				0	1	1	23.0	22.20			
		1				12	1	1	23.0	22.15			
		1				24	1	1	23.0	22.16			
		12				0	2	2	22.0	20.98			
		12				6	2	2	22.0	20.98			
		12				11	2	2	22.0	20.98			
	25	0				2	2	22.0	20.88				
	64QAM	1				0	2	2	22.0	21.07			
		1				12	2	2	22.0	21.02			
		1				24	2	2	22.0	20.97			
		12				0	3	3	21.0	20.01			
		12				6	3	3	21.0	20.02			
		12				11	3	3	21.0	19.96			
	25	0				3	3	21.0	19.88				
	23355	795.5				795.5	QPSK	1	0	0	0	24.0	22.77
								1	12	0	0	24.0	22.82
								1	24	0	0	24.0	22.80
12								0	1	1	23.0	21.76	
12								6	1	1	23.0	21.91	
12								11	1	1	23.0	21.87	
25			0	1	1		23.0	21.83					
16QAM			1	0	1		1	23.0	22.06				
			1	12	1		1	23.0	22.10				
			1	24	1		1	23.0	22.07				
			12	0	2		2	22.0	20.88				
			12	6	2		2	22.0	20.98				
			12	11	2		2	22.0	20.97				
25			0	2	2		22.0	20.91					
64QAM			1	0	2		2	22.0	21.03				
			1	12	2		2	22.0	21.08				
			1	24	2		2	22.0	21.03				
			12	0	3		3	21.0	19.87				
			12	6	3		3	21.0	20.03				
			12	11	3		3	21.0	19.98				
25			0	3	3		21.0	19.95					

LTE Band 14 Measured Results (Reduction)

Band : 14

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	23330	793	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.43
				1	24			19.2	18.38
				1	49			19.2	18.41
				25	0			19.2	18.45
				25	12			19.2	18.49
				25	24			19.2	18.41
			50	0	19.2			18.44	
			16QAM	1	0			19.2	18.69
				1	24			19.2	18.64
				1	49			19.2	18.66
				25	0			19.2	18.50
				25	12			19.2	18.48
				25	24			19.2	18.43
			50	0	19.2			18.46	
			64QAM	1	0			19.2	18.84
				1	24			19.2	18.88
				1	49			19.2	18.91
				25	0			19.2	18.50
				25	12			19.2	18.52
				25	24			19.2	18.45
			50	0	19.2			18.52	

Band : 14

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	23305	790.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.56
				1	12			19.2	18.52
				1	24			19.2	18.49
				12	0			19.2	18.50
				12	6			19.2	18.51
				12	11			19.2	18.49
				25	0			19.2	18.47
			16QAM	1	0			19.2	18.91
				1	12			19.2	18.86
				1	24			19.2	18.84
				12	0			19.2	18.57
				12	6			19.2	18.60
				12	11			19.2	18.56
				25	0			19.2	18.53
			64QAM	1	0			19.2	19.01
				1	12			19.2	18.91
				1	24			19.2	18.92
				12	0			19.2	18.43
				12	6			19.2	18.45
				12	11			19.2	18.41
				25	0			19.2	18.53
	23330	793	QPSK	1	0			19.2	18.42
				1	12			19.2	18.38
				1	24			19.2	18.39
				12	0			19.2	18.48
				12	6			19.2	18.49
				12	11			19.2	18.44
				25	0			19.2	18.43
			16QAM	1	0			19.2	18.70
				1	12			19.2	18.69
				1	24			19.2	18.62
				12	0			19.2	18.55
				12	6			19.2	18.55
				12	11			19.2	18.48
				25	0			19.2	18.41
			64QAM	1	0			19.2	18.70
				1	12			19.2	18.66
				1	24			19.2	18.64
				12	0			19.2	18.53
				12	6			19.2	18.55
				12	11			19.2	18.49
				25	0			19.2	18.49
	23355	795.5	QPSK	1	0			19.2	18.42
				1	12			19.2	18.44
				1	24			19.2	18.47
12				0	19.2	18.46			
12				6	19.2	18.55			
12				11	19.2	18.53			
25				0	19.2	18.50			
16QAM			1	0	19.2	18.67			
			1	12	19.2	18.76			
			1	24	19.2	18.70			
			12	0	19.2	18.52			
			12	6	19.2	18.61			
			12	11	19.2	18.58			
			25	0	19.2	18.53			
64QAM			1	0	19.2	18.68			
			1	12	19.2	18.75			
			1	24	19.2	18.73			
			12	0	19.2	18.55			
			12	6	19.2	18.63			
			12	11	19.2	18.62			
			25	0	19.2	18.58			

LTE Band 26 Measured Results(Full)

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
15	26765	821.5	QPSK	1	0	0	0	24.0	22.81	
				1	37	0	0	24.0	22.90	
				1	74	0	0	24.0	22.82	
				36	0	1	1	23.0	21.78	
				36	19	1	1	23.0	21.82	
				36	39	1	1	23.0	21.75	
			75	0	1	1	23.0	21.79		
			16QAM	1	0	1	1	23.0	22.03	
				1	37	1	1	23.0	22.04	
				1	74	1	1	23.0	22.06	
				36	0	2	2	22.0	20.84	
				36	19	2	2	22.0	20.91	
				36	39	2	2	22.0	20.80	
			75	0	2	2	22.0	20.77		
			64QAM	1	0	2	2	22.0	21.34	
				1	37	2	2	22.0	21.33	
				1	74	2	2	22.0	21.39	
				36	0	3	3	21.0	19.82	
	36	19		3	3	21.0	19.93			
	36	39		3	3	21.0	19.82			
	75	0	3	3	21.0	19.81				
	26865	26865	831.5	QPSK	1	0	0	0	24.0	22.83
					1	37	0	0	24.0	22.97
					1	74	0	0	24.0	22.87
					36	0	1	1	23.0	21.87
					36	19	1	1	23.0	21.98
					36	39	1	1	23.0	21.88
				75	0	1	1	23.0	21.97	
				16QAM	1	0	1	1	23.0	22.07
					1	37	1	1	23.0	22.18
					1	74	1	1	23.0	22.07
					36	0	2	2	22.0	20.91
					36	19	2	2	22.0	21.05
					36	39	2	2	22.0	20.98
				75	0	2	2	22.0	20.94	
				64QAM	1	0	2	2	22.0	21.44
1					37	2	2	22.0	21.45	
1					74	2	2	22.0	21.47	
36					0	3	3	21.0	19.97	
36		19	3		3	21.0	20.05			
36		39	3		3	21.0	19.96			
75		0	3	3	21.0	19.93				
26965		26965	841.5	QPSK	1	0	0	0	24.0	22.92
					1	37	0	0	24.0	22.85
					1	74	0	0	24.0	22.75
					36	0	1	1	23.0	21.91
					36	19	1	1	23.0	21.90
					36	39	1	1	23.0	21.81
				75	0	1	1	23.0	21.81	
				16QAM	1	0	1	1	23.0	22.20
					1	37	1	1	23.0	22.08
					1	74	1	1	23.0	21.94
					36	0	2	2	22.0	20.95
					36	19	2	2	22.0	20.95
					36	39	2	2	22.0	20.84
				75	0	2	2	22.0	20.83	
				64QAM	1	0	2	2	22.0	21.35
	1				37	2	2	22.0	21.35	
	1				74	2	2	22.0	21.35	
	36				0	3	3	21.0	19.97	
	36	19	3		3	21.0	19.95			
	36	39	3		3	21.0	19.86			
	75	0	3	3	21.0	19.82				

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
10	26740	819	QPSK	1	0	0	0	24.0	22.72			
				1	24	0	0	24.0	22.76			
				1	49	0	0	24.0	22.70			
				25	0	1	1	23.0	21.76			
				25	12	1	1	23.0	21.87			
				25	24	1	1	23.0	21.83			
			50	0	1	1	23.0	21.81				
			16QAM	1	0	1	1	23.0	21.93			
				1	24	1	1	23.0	22.01			
				1	49	1	1	23.0	21.94			
				25	0	2	2	22.0	20.80			
				25	12	2	2	22.0	20.90			
				25	24	2	2	22.0	20.83			
			64QAM	50	0	2	2	22.0	20.83			
				1	0	2	2	22.0	21.26			
				1	24	2	2	22.0	21.26			
				1	49	2	2	22.0	21.24			
				25	0	3	3	21.0	19.78			
				25	12	3	3	21.0	19.85			
			26865	831.5	819	QPSK	25	24	3	3	21.0	19.83
							50	0	3	3	21.0	19.87
							1	0	0	0	24.0	22.82
							1	24	0	0	24.0	22.87
							1	49	0	0	24.0	22.79
	25	0					1	1	23.0	22.00		
	16QAM	25				12	1	1	23.0	21.96		
		25				24	1	1	23.0	21.95		
		50				0	1	1	23.0	21.96		
		1				0	1	1	23.0	22.17		
		1				24	1	1	23.0	22.21		
		1				49	1	1	23.0	22.13		
	64QAM	25	0	2	2	22.0	20.92					
		25	12	2	2	22.0	20.92					
		25	24	2	2	22.0	20.89					
		50	0	2	2	22.0	20.91					
		1	0	2	2	22.0	21.15					
1		24	2	2	22.0	21.22						
26990	844	831.5	QPSK	1	49	2	2	22.0	21.15			
				25	0	3	3	21.0	19.98			
				25	12	3	3	21.0	19.98			
				25	24	3	3	21.0	19.94			
				50	0	3	3	21.0	19.93			
				1	0	0	0	24.0	22.77			
			16QAM	1	24	0	0	24.0	22.76			
				1	49	0	0	24.0	22.67			
				25	0	1	1	23.0	21.84			
				25	12	1	1	23.0	21.81			
				25	24	1	1	23.0	21.79			
				50	0	1	1	23.0	21.83			
64QAM	1	0	1	1	23.0	21.98						
	1	24	1	1	23.0	21.92						
	1	49	1	1	23.0	21.86						
	25	0	2	2	22.0	20.83						
	25	12	2	2	22.0	20.85						
	25	24	2	2	22.0	20.82						
26990	844	844	QPSK	50	0	2	2	22.0	20.80			
				1	0	2	2	22.0	21.27			
				1	24	2	2	22.0	21.21			
				1	49	2	2	22.0	21.18			
				25	0	3	3	21.0	19.85			
				25	12	3	3	21.0	19.87			
			16QAM	25	24	3	3	21.0	19.85			
				50	0	3	3	21.0	19.89			

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
5	26715	816.5	QPSK	1	0	0	0	24.0	22.76		
				1	12	0	0	24.0	22.72		
				1	24	0	0	24.0	22.82		
				12	0	1	1	23.0	21.74		
				12	6	1	1	23.0	21.79		
				12	11	1	1	23.0	21.77		
			25	0	1	1	23.0	21.76			
			16QAM	1	0	1	1	23.0	21.97		
				1	12	1	1	23.0	22.01		
				1	24	1	1	23.0	22.07		
				12	0	2	2	22.0	20.86		
				12	6	2	2	22.0	20.85		
				12	11	2	2	22.0	20.82		
			64QAM	25	0	2	2	22.0	20.77		
				1	0	2	2	22.0	20.99		
				1	12	2	2	22.0	20.95		
				1	24	2	2	22.0	21.09		
				12	0	3	3	21.0	19.86		
				12	6	3	3	21.0	19.85		
			26865	831.5	QPSK	12	11	3	3	21.0	19.83
						25	0	3	3	21.0	19.82
						1	0	0	0	24.0	22.90
						1	12	0	0	24.0	22.95
						1	24	0	0	24.0	22.96
						12	0	1	1	23.0	21.94
					16QAM	12	6	1	1	23.0	21.92
						12	11	1	1	23.0	21.89
						25	0	1	1	23.0	21.88
						1	0	1	1	23.0	22.22
						1	12	1	1	23.0	22.34
	1	24				1	1	23.0	22.31		
	12	0				2	2	22.0	21.12		
	12	6				2	2	22.0	21.13		
	12	11				2	2	22.0	21.10		
	64QAM	25	0	2	2	22.0	20.98				
		1	0	2	2	22.0	21.13				
		1	12	2	2	22.0	21.19				
		1	24	2	2	22.0	21.15				
		12	0	3	3	21.0	20.14				
		12	6	3	3	21.0	20.15				
	27015	846.5	QPSK	12	11	3	3	21.0	20.10		
				25	0	3	3	21.0	19.99		
				1	0	0	0	24.0	22.75		
				1	12	0	0	24.0	22.73		
				1	24	0	0	24.0	22.71		
12				0	1	1	23.0	21.81			
16QAM			12	6	1	1	23.0	21.84			
			12	11	1	1	23.0	21.80			
			25	0	1	1	23.0	21.78			
			1	0	1	1	23.0	22.02			
			1	12	1	1	23.0	22.03			
			1	24	1	1	23.0	21.98			
			12	0	2	2	22.0	20.88			
			12	6	2	2	22.0	20.88			
			12	11	2	2	22.0	20.87			
64QAM	25	0	2	2	22.0	20.75					
	1	0	2	2	22.0	21.00					
	1	12	2	2	22.0	20.96					
	1	24	2	2	22.0	20.92					
	12	0	3	3	21.0	19.84					
	12	6	3	3	21.0	19.85					
12	11	3	3	21.0	19.84						
25	0	3	3	21.0	19.85						

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
3	26705	815.5	QPSK	1	0	0	0	24.0	22.70				
				1	7	0	0	24.0	22.79				
				1	14	0	0	24.0	22.67				
				8	0	1	1	23.0	21.79				
				8	4	1	1	23.0	21.81				
				8	7	1	1	23.0	21.80				
			15	0	1	1	23.0	21.79					
			16QAM	1	0	1	1	23.0	21.84				
				1	7	1	1	23.0	21.97				
				1	14	1	1	23.0	21.81				
				8	0	2	2	22.0	20.73				
				8	4	2	2	22.0	20.75				
				8	7	2	2	22.0	20.73				
			64QAM	15	0	2	2	22.0	20.79				
				1	0	2	2	22.0	21.20				
				1	7	2	2	22.0	21.29				
				1	14	2	2	22.0	21.13				
				8	0	3	3	21.0	19.87				
				8	4	3	3	21.0	19.88				
			26865	831.5	831.5	QPSK	8	7	3	3	21.0	19.84	
							15	0	3	3	21.0	19.83	
							1	0	0	0	24.0	22.86	
							1	7	0	0	24.0	22.96	
							1	14	0	0	24.0	22.83	
							8	0	1	1	23.0	21.95	
						8	4	1	1	23.0	21.98		
						8	7	1	1	23.0	21.91		
	15	0				1	1	23.0	21.94				
	16QAM	1				0	1	1	23.0	22.18			
		1				7	1	1	23.0	22.28			
		1				14	1	1	23.0	22.14			
		8				0	2	2	22.0	21.04			
		8				4	2	2	22.0	21.05			
		8				7	2	2	22.0	21.03			
	64QAM	15				0	2	2	22.0	20.88			
		1				0	2	2	22.0	21.18			
		1				7	2	2	22.0	21.28			
		1				14	2	2	22.0	21.16			
		8				0	3	3	21.0	19.91			
		8				4	3	3	21.0	19.94			
	27025	847.5				847.5	QPSK	8	7	3	3	21.0	19.88
								15	0	3	3	21.0	19.90
								1	0	0	0	24.0	22.74
								1	7	0	0	24.0	22.77
								1	14	0	0	24.0	22.69
8								0	1	1	23.0	21.79	
8			4	1	1		23.0	21.81					
8			7	1	1		23.0	21.77					
15			0	1	1		23.0	21.78					
16QAM			1	0	1		1	23.0	21.85				
			1	7	1		1	23.0	21.99				
			1	14	1		1	23.0	21.84				
			8	0	2		2	22.0	20.74				
			8	4	2		2	22.0	20.74				
			8	7	2		2	22.0	20.76				
64QAM			15	0	2		2	22.0	20.75				
			1	0	2		2	22.0	21.21				
			1	7	2		2	22.0	21.27				
			1	14	2		2	22.0	21.18				
			8	0	3		3	21.0	19.87				
			8	4	3		3	21.0	19.88				
27025			847.5	847.5	QPSK		8	7	3	3	21.0	19.86	
							15	0	3	3	21.0	19.81	

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
1.4	26697	814.7	QPSK	1	0	0	0	24.0	22.65				
				1	2	0	0	24.0	22.71				
				1	5	0	0	24.0	22.62				
				3	0	0	0	24.0	22.67				
				3	1	0	0	24.0	22.70				
				3	3	0	0	24.0	22.64				
			16QAM	6	0	1	1	23.0	21.69				
				1	0	1	1	23.0	21.77				
				1	2	1	1	23.0	21.92				
				1	5	1	1	23.0	21.80				
				3	0	1	1	23.0	21.85				
				3	1	1	1	23.0	21.88				
			64QAM	3	3	1	1	23.0	21.91				
				6	0	2	2	22.0	20.70				
				1	0	2	2	22.0	21.11				
				1	2	2	2	22.0	21.21				
				1	5	2	2	22.0	21.12				
				3	0	2	2	22.0	20.78				
			26865	831.5	831.5	QPSK	3	1	2	2	22.0	20.87	
							3	3	2	2	22.0	20.81	
							6	0	3	3	21.0	19.85	
	1	0					0	0	24.0	22.79			
	1	2					0	0	24.0	22.83			
	1	5					0	0	24.0	22.77			
	16QAM	3				0	0	0	24.0	22.87			
		3				1	0	0	24.0	22.90			
		3				3	0	0	24.0	22.81			
		6				0	1	1	23.0	21.88			
		1				0	1	1	23.0	22.08			
		1				2	1	1	23.0	22.16			
	64QAM	1				5	1	1	23.0	22.07			
		3				0	1	1	23.0	21.96			
		3				1	1	1	23.0	21.99			
		3				3	1	1	23.0	21.94			
		6				0	2	2	22.0	20.89			
		1				0	2	2	22.0	21.12			
	27033	848.3				848.3	QPSK	1	2	2	2	22.0	21.20
								1	5	2	2	22.0	21.11
								3	0	2	2	22.0	20.81
			3	1	2			2	22.0	20.83			
			3	3	2			2	22.0	20.80			
			6	0	3			3	21.0	19.74			
16QAM			1	0	0		0	24.0	22.62				
			1	2	0		0	24.0	22.67				
			1	5	0		0	24.0	22.61				
			3	0	0		0	24.0	22.64				
			3	1	0		0	24.0	22.68				
			3	3	0		0	24.0	22.63				
64QAM			6	0	1		1	23.0	21.68				
			1	0	1		1	23.0	21.75				
			1	2	1		1	23.0	21.86				
			1	5	1		1	23.0	21.75				
			3	0	1		1	23.0	21.88				
			3	1	1		1	23.0	21.90				
QPSK			3	3	1		1	23.0	21.86				
			6	0	2		2	22.0	20.68				
			1	0	2		2	22.0	21.06				
	1	2	2	2	22.0	21.16							
	1	5	2	2	22.0	21.06							
	3	0	2	2	22.0	20.75							
	3	1	2	2	22.0	20.83							
	3	3	2	2	22.0	20.78							
	6	0	3	3	21.0	19.84							

LTE Band 26 Measured Results (Reduction)

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
15	26765	821.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.1	18.24
				1	37			19.1	18.29
				1	74			19.1	18.22
				36	0			19.1	18.20
				36	19			19.1	18.29
				36	39			19.1	18.19
				75	0			19.1	18.21
			16QAM	1	0			19.1	18.41
				1	37			19.1	18.44
				1	74			19.1	18.41
				36	0			19.1	18.27
				36	19			19.1	18.35
				36	39			19.1	18.23
				75	0			19.1	18.19
			64QAM	1	0			19.1	18.68
				1	37			19.1	18.73
				1	74			19.1	18.71
				36	0			19.1	18.26
				36	19			19.1	18.38
				36	39			19.1	18.27
				75	0			19.1	18.25
	26865	831.5	QPSK	1	0			19.1	18.21
				1	37			19.1	18.36
				1	74			19.1	18.23
				36	0			19.1	18.30
				36	19			19.1	18.38
				36	39			19.1	18.27
				75	0			19.1	18.32
			16QAM	1	0			19.1	18.42
				1	37			19.1	18.48
				1	74			19.1	18.38
				36	0			19.1	18.30
				36	19			19.1	18.46
				36	39			19.1	18.35
				75	0			19.1	18.28
			64QAM	1	0			19.1	18.69
				1	37			19.1	18.86
				1	74			19.1	18.72
				36	0			19.1	18.30
				36	19			19.1	18.45
				36	39			19.1	18.36
				75	0			19.1	18.34
	26965	841.5	QPSK	1	0			19.1	18.26
				1	37			19.1	18.17
				1	74			19.1	18.04
36				0	19.1	18.29			
36				19	19.1	18.26			
36				39	19.1	18.19			
75				0	19.1	18.20			
16QAM			1	0	19.1	18.56			
			1	37	19.1	18.47			
			1	74	19.1	18.39			
			36	0	19.1	18.31			
			36	19	19.1	18.30			
			36	39	19.1	18.22			
			75	0	19.1	18.22			
64QAM			1	0	19.1	18.59			
			1	37	19.1	18.50			
			1	74	19.1	18.39			
			36	0	19.1	18.33			
			36	19	19.1	18.31			
			36	39	19.1	18.20			
			75	0	19.1	18.28			

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	26740	819	QPSK	1	0	MPR is disabled when power reduction is enabled		19.1	18.23
				1	24			19.1	18.29
				1	49			19.1	18.19
				25	0			19.1	18.16
				25	12			19.1	18.23
				25	24			19.1	18.21
				50	0			19.1	18.19
			16QAM	1	0			19.1	18.56
				1	24			19.1	18.58
				1	49			19.1	18.46
				25	0			19.1	18.14
				25	12			19.1	18.26
				25	24			19.1	18.19
				50	0			19.1	18.22
			64QAM	1	0			19.1	18.53
				1	24			19.1	18.57
				1	49			19.1	18.55
				25	0			19.1	18.16
				25	12			19.1	18.29
				25	24			19.1	18.23
				50	0			19.1	18.25
	26865	831.5	QPSK	1	0			19.1	18.30
				1	24			19.1	18.38
				1	49			19.1	18.29
				25	0			19.1	18.31
				25	12			19.1	18.34
				25	24			19.1	18.30
				50	0			19.1	18.29
			16QAM	1	0			19.1	18.55
				1	24			19.1	18.64
				1	49			19.1	18.59
				25	0			19.1	18.35
				25	12			19.1	18.38
				25	24			19.1	18.33
				50	0			19.1	18.33
			64QAM	1	0			19.1	18.69
				1	24			19.1	18.69
				1	49			19.1	18.60
				25	0			19.1	18.39
				25	12			19.1	18.36
				25	24			19.1	18.29
				50	0			19.1	18.38
	26990	844	QPSK	1	0			19.1	18.20
				1	24			19.1	18.17
				1	49			19.1	18.09
25				0	19.1	18.19			
25				12	19.1	18.24			
25				24	19.1	18.18			
50				0	19.1	18.20			
16QAM			1	0	19.1	18.53			
			1	24	19.1	18.46			
			1	49	19.1	18.41			
			25	0	19.1	18.17			
			25	12	19.1	18.16			
			25	24	19.1	18.11			
			50	0	19.1	18.18			
64QAM			1	0	19.1	18.54			
			1	24	19.1	18.52			
			1	49	19.1	18.42			
			25	0	19.1	18.21			
			25	12	19.1	18.23			
			25	24	19.1	18.17			
			50	0	19.1	18.16			

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	26715	816.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.1	18.27
				1	12			19.1	18.20
				1	24			19.1	18.28
				12	0			19.1	18.22
				12	6			19.1	18.24
				12	11			19.1	18.21
				25	0			19.1	18.19
			16QAM	1	0			19.1	18.49
				1	12			19.1	18.48
				1	24			19.1	18.55
				12	0			19.1	18.29
				12	6			19.1	18.25
				12	11			19.1	18.24
				25	0			19.1	18.21
			64QAM	1	0			19.1	18.70
				1	12			19.1	18.69
				1	24			19.1	18.76
				12	0			19.1	18.11
				12	6			19.1	18.13
				12	11			19.1	18.10
				25	0			19.1	18.23
	26865	831.5	QPSK	1	0			19.1	18.21
				1	12			19.1	18.26
				1	24			19.1	18.24
				12	0			19.1	18.38
				12	6			19.1	18.34
				12	11			19.1	18.35
				25	0			19.1	18.30
			16QAM	1	0			19.1	18.45
				1	12			19.1	18.56
				1	24			19.1	18.52
				12	0			19.1	18.43
				12	6			19.1	18.40
				12	11			19.1	18.40
				25	0			19.1	18.32
			64QAM	1	0			19.1	18.47
				1	12			19.1	18.52
				1	24			19.1	18.52
				12	0			19.1	18.43
				12	6			19.1	18.43
				12	11			19.1	18.42
				25	0			19.1	18.41
	27015	846.5	QPSK	1	0			19.1	18.15
				1	12			19.1	18.20
				1	24			19.1	18.10
12				0	19.1	18.19			
12				6	19.1	18.16			
12				11	19.1	18.18			
25				0	19.1	18.16			
16QAM			1	0	19.1	18.43			
			1	12	19.1	18.40			
			1	24	19.1	18.37			
			12	0	19.1	18.24			
			12	6	19.1	18.24			
			12	11	19.1	18.20			
			25	0	19.1	18.14			
64QAM			1	0	19.1	18.46			
			1	12	19.1	18.37			
			1	24	19.1	18.39			
			12	0	19.1	18.26			
			12	6	19.1	18.26			
			12	11	19.1	18.23			
			25	0	19.1	18.25			

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
3	26705	815.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.1	18.19
				1	7			19.1	18.24
				1	14			19.1	18.16
				8	0			19.1	18.22
				8	4			19.1	18.30
				8	7			19.1	18.15
				15	0			19.1	18.16
			16QAM	1	0			19.1	18.47
				1	7			19.1	18.60
				1	14			19.1	18.42
				8	0			19.1	18.29
				8	4			19.1	18.30
				8	7			19.1	18.25
				15	0			19.1	18.20
			64QAM	1	0			19.1	18.50
				1	7			19.1	18.61
				1	14			19.1	18.46
				8	0			19.1	18.20
				8	4			19.1	18.20
				8	7			19.1	18.18
				15	0			19.1	18.19
	26865	831.5	QPSK	1	0			19.1	18.20
				1	7			19.1	18.29
				1	14			19.1	18.18
				8	0			19.1	18.34
				8	4			19.1	18.34
				8	7			19.1	18.32
				15	0			19.1	18.29
			16QAM	1	0			19.1	18.45
				1	7			19.1	18.57
				1	14			19.1	18.42
				8	0			19.1	18.28
				8	4			19.1	18.28
				8	7			19.1	18.25
				15	0			19.1	18.29
			64QAM	1	0			19.1	18.64
				1	7			19.1	18.78
				1	14			19.1	18.66
				8	0			19.1	18.42
				8	4			19.1	18.44
				8	7			19.1	18.40
				15	0			19.1	18.34
	27025	847.5	QPSK	1	0			19.1	18.07
				1	7			19.1	18.10
				1	14			19.1	18.05
8				0	19.1	18.18			
8				4	19.1	18.16			
8				7	19.1	18.10			
15				0	19.1	18.12			
16QAM			1	0	19.1	18.31			
			1	7	19.1	18.42			
			1	14	19.1	18.26			
			8	0	19.1	18.11			
			8	4	19.1	18.13			
			8	7	19.1	18.09			
			15	0	19.1	18.13			
64QAM			1	0	19.1	18.49			
			1	7	19.1	18.57			
			1	14	19.1	18.53			
			8	0	19.1	18.26			
			8	4	19.1	18.23			
			8	7	19.1	18.22			
			15	0	19.1	18.17			

Band : 26

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
1.4	26697	814.7	QPSK	1	0	MPR is disabled when power reduction is enabled		19.1	18.00		
				1	2			19.1	18.05		
				1	5			19.1	17.97		
				3	0			19.1	18.05		
				3	1			19.1	18.12		
				3	3			19.1	18.09		
			16QAM	6	0			19.1	18.08		
				1	0			19.1	18.20		
				1	2			19.1	18.29		
				1	5			19.1	18.19		
				3	0			19.1	18.29		
				3	1			19.1	18.30		
			64QAM	3	3			19.1	18.27		
				6	0			19.1	18.09		
				1	0			19.1	18.43		
				1	2			19.1	18.48		
				1	5			19.1	18.39		
				3	0			19.1	18.18		
			26865	831.5	QPSK			3	1	19.1	18.25
								3	3	19.1	18.16
								6	0	19.1	18.24
								1	0	19.1	18.11
								1	2	19.1	18.17
								1	5	19.1	18.10
	16QAM	3			0			19.1	18.21		
		3			1			19.1	18.27		
		3			3			19.1	18.22		
		6			0			19.1	18.23		
		1			0			19.1	18.36		
		1			2			19.1	18.48		
	64QAM	1	5	19.1	18.34						
		3	0	19.1	18.45						
		3	1	19.1	18.45						
		3	3	19.1	18.40						
		6	0	19.1	18.23						
		1	0	19.1	18.58						
	27033	848.3	QPSK	1	2			19.1	18.62		
				1	5			19.1	18.59		
				3	0			19.1	18.33		
				3	1			19.1	18.37		
				3	3			19.1	18.30		
				6	0			19.1	18.42		
			16QAM	1	0			19.1	17.95		
				1	2			19.1	18.01		
				1	5			19.1	17.92		
				3	0			19.1	18.02		
				3	1			19.1	18.08		
				3	3			19.1	18.03		
64QAM			6	0	19.1	18.02					
			1	0	19.1	18.16					
			1	2	19.1	18.28					
			1	5	19.1	18.16					
			3	0	19.1	18.24					
			3	1	19.1	18.28					
64QAM	3	3	19.1	18.21							
	6	0	19.1	18.05							
	1	0	19.1	18.41							
	1	2	19.1	18.46							
	1	5	19.1	18.41							
	3	0	19.1	18.13							
3	1	19.1	18.18								
3	3	19.1	18.11								
6	0	19.1	18.23								

LTE Band 41 Measured Results(Full)

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
20	39750 Low	2506	QPSK	1	0	0	0	23.0	21.69	
				1	49	0	0	23.0	21.41	
				1	99	0	0	23.0	21.44	
				50	0	1	1	22.0	20.78	
				50	24	1	1	22.0	20.66	
				50	49	1	1	22.0	20.65	
			100	0	1	1	22.0	20.63		
			16QAM	1	0	1	1	22.0	21.08	
				1	49	1	1	22.0	20.95	
				1	99	1	1	22.0	20.97	
				50	0	2	2	21.0	19.74	
				50	24	2	2	21.0	19.61	
				50	49	2	2	21.0	19.61	
			64QAM	100	0	2	2	21.0	19.69	
				1	0	2	2	21.0	20.13	
				1	49	2	2	21.0	20.17	
				1	99	2	2	21.0	20.14	
				50	0	3	3	20.0	18.93	
	50	24		3	3	20.0	18.79			
	40185 Low-Mid	2549.5	2506	QPSK	50	49	3	3	20.0	18.69
					100	0	3	3	20.0	18.67
					1	0	0	0	23.0	21.78
					1	49	0	0	23.0	21.68
					1	99	0	0	23.0	21.65
					50	0	1	1	22.0	20.78
				16QAM	50	24	1	1	22.0	20.77
					50	49	1	1	22.0	20.72
					100	0	1	1	22.0	20.80
					1	0	1	1	22.0	21.21
					1	49	1	1	22.0	21.11
					1	99	1	1	22.0	21.15
				64QAM	50	0	2	2	21.0	19.86
					50	24	2	2	21.0	19.86
					50	49	2	2	21.0	19.80
					100	0	2	2	21.0	19.80
					1	0	2	2	21.0	20.23
1					49	2	2	21.0	20.08	
40620 Mid	2593	2593	QPSK	1	99	2	2	21.0	20.13	
				50	0	3	3	20.0	18.83	
				50	24	3	3	20.0	18.83	
				50	49	3	3	20.0	18.78	
				100	0	3	3	20.0	18.82	
				1	0	0	0	23.0	21.71	
			16QAM	1	49	0	0	23.0	21.60	
				1	99	0	0	23.0	21.63	
				50	0	1	1	22.0	20.73	
				50	24	1	1	22.0	20.74	
				50	49	1	1	22.0	20.69	
				100	0	1	1	22.0	20.75	
			64QAM	1	0	1	1	22.0	21.19	
				1	49	1	1	22.0	21.06	
				1	99	1	1	22.0	21.08	
				50	0	2	2	21.0	19.76	
				50	24	2	2	21.0	19.75	
				50	49	2	2	21.0	19.74	
64QAM	100	0	2	2	21.0	19.74				
	1	0	2	2	21.0	20.15				
	1	49	2	2	21.0	20.04				
	1	99	2	2	21.0	20.08				
	50	0	3	3	20.0	18.77				
	50	24	3	3	20.0	18.78				
64QAM	50	49	3	3	20.0	18.75				
	100	0	3	3	20.0	18.80				

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
20	41055 Mid-High	2636.5	QPSK	1	0	0	0	23.0	21.73
				1	49	0	0	23.0	21.61
				1	99	0	0	23.0	21.54
				50	0	1	1	22.0	20.89
				50	24	1	1	22.0	20.87
				50	49	1	1	22.0	20.85
			100	0	1	1	22.0	20.88	
			16QAM	1	0	1	1	22.0	21.18
				1	49	1	1	22.0	21.17
				1	99	1	1	22.0	21.08
				50	0	2	2	21.0	19.82
				50	24	2	2	21.0	19.83
				50	49	2	2	21.0	19.80
			64QAM	100	0	2	2	21.0	19.85
				1	0	2	2	21.0	20.15
				1	49	2	2	21.0	20.17
				1	99	2	2	21.0	20.13
				50	0	3	3	20.0	19.00
	50	24		3	3	20.0	18.95		
	41490 High	2680	QPSK	50	49	3	3	20.0	18.90
				100	0	3	3	20.0	18.90
				1	0	0	0	23.0	21.93
				1	49	0	0	23.0	21.74
				1	99	0	0	23.0	21.72
				50	0	1	1	22.0	20.84
			16QAM	50	24	1	1	22.0	20.82
				50	49	1	1	22.0	20.79
				100	0	1	1	22.0	20.85
				1	0	1	1	22.0	21.37
				1	49	1	1	22.0	21.19
1				99	1	1	22.0	21.18	
64QAM	50	0	2	2	21.0	19.92			
	50	24	2	2	21.0	19.92			
	50	49	2	2	21.0	19.84			
	100	0	2	2	21.0	19.79			
	1	0	2	2	21.0	20.37			
	1	49	2	2	21.0	20.15			
64QAM	1	99	2	2	21.0	20.17			
	50	0	3	3	20.0	18.85			
	50	24	3	3	20.0	18.86			
	50	49	3	3	20.0	18.80			
	100	0	3	3	20.0	18.87			

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
15	39725 Low	2503.5	QPSK	1	0	0	0	23.0	21.85		
				1	37	0	0	23.0	21.86		
				1	74	0	0	23.0	21.68		
				36	0	1	1	22.0	20.75		
				36	19	1	1	22.0	20.82		
				36	39	1	1	22.0	20.65		
			16QAM	75	0	1	1	22.0	20.76		
				1	0	1	1	22.0	20.97		
				1	37	1	1	22.0	20.82		
				1	74	1	1	22.0	20.81		
				36	0	2	2	21.0	19.86		
				36	19	2	2	21.0	19.87		
			64QAM	36	39	2	2	21.0	19.66		
				75	0	2	2	21.0	19.73		
				1	0	2	2	21.0	19.98		
				1	37	2	2	21.0	19.84		
				1	74	2	2	21.0	19.72		
				36	0	3	3	20.0	18.82		
			40173 Low-Mid	2548.3	QPSK	36	19	3	3	20.0	18.78
						36	39	3	3	20.0	18.64
						75	0	3	3	20.0	18.79
						1	0	0	0	23.0	21.96
						1	37	0	0	23.0	21.90
						1	74	0	0	23.0	21.88
	16QAM	36			0	1	1	22.0	20.75		
		36			19	1	1	22.0	20.80		
		36			39	1	1	22.0	20.77		
		75			0	1	1	22.0	20.75		
		1			0	1	1	22.0	20.99		
		1			37	1	1	22.0	20.82		
	64QAM	1		74	1	1	22.0	20.92			
		36		0	2	2	21.0	19.83			
		36		19	2	2	21.0	19.88			
		36		39	2	2	21.0	19.84			
		75		0	2	2	21.0	19.80			
		1		0	2	2	21.0	19.93			
40620 Mid	2593	QPSK		1	37	2	2	21.0	19.82		
				1	74	2	2	21.0	19.88		
				36	0	3	3	20.0	18.78		
				36	19	3	3	20.0	18.79		
				36	39	3	3	20.0	18.77		
				75	0	3	3	20.0	18.80		
	16QAM	1	0	0	0	23.0	21.94				
		1	37	0	0	23.0	21.88				
		1	74	0	0	23.0	21.84				
		36	0	1	1	22.0	20.75				
		36	19	1	1	22.0	20.73				
		36	39	1	1	22.0	20.70				
64QAM	75	0	1	1	22.0	20.74					
	1	0	1	1	22.0	20.95					
	1	37	1	1	22.0	20.76					
	1	74	1	1	22.0	20.86					
	36	0	2	2	21.0	19.79					
	36	19	2	2	21.0	19.82					
64QAM	36	39	2	2	21.0	19.79					
	75	0	2	2	21.0	19.73					
	1	0	2	2	21.0	19.94					
	1	37	2	2	21.0	19.83					
	1	74	2	2	21.0	19.81					
	36	0	3	3	20.0	18.75					
			36	19	3	3	20.0	18.74			
			36	39	3	3	20.0	18.72			
			75	0	3	3	20.0	18.73			

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
15	41068 Mid-High	2637.8	QPSK	1	0	0	0	23.0	22.06	
				1	37	0	0	23.0	22.01	
				1	74	0	0	23.0	21.88	
				36	0	1	1	22.0	20.89	
				36	19	1	1	22.0	20.90	
				36	39	1	1	22.0	20.77	
			75	0	1	1	22.0	20.84		
			16QAM	1	0	1	1	22.0	21.10	
				1	37	1	1	22.0	20.93	
				1	74	1	1	22.0	20.88	
				36	0	2	2	21.0	19.90	
				36	19	2	2	21.0	19.90	
				36	39	2	2	21.0	19.80	
			64QAM	75	0	2	2	21.0	19.89	
				1	0	2	2	21.0	20.03	
				1	37	2	2	21.0	19.94	
				1	74	2	2	21.0	19.84	
				36	0	3	3	20.0	18.86	
	36	19		3	3	20.0	18.83			
	41515 High	2682.5		QPSK	36	39	3	3	20.0	18.77
					75	0	3	3	20.0	18.89
					1	0	0	0	23.0	21.99
					1	37	0	0	23.0	21.85
					1	74	0	0	23.0	21.81
					36	0	1	1	22.0	20.85
				16QAM	36	19	1	1	22.0	20.82
					36	39	1	1	22.0	20.81
					75	0	1	1	22.0	20.83
					1	0	1	1	22.0	21.01
					1	37	1	1	22.0	20.90
					1	74	1	1	22.0	20.87
				64QAM	36	0	2	2	21.0	19.89
					36	19	2	2	21.0	19.87
					36	39	2	2	21.0	19.82
					75	0	2	2	21.0	19.83
					1	0	2	2	21.0	20.06
1					37	2	2	21.0	19.91	
	1	74	2	2	21.0	19.93				
	36	0	3	3	20.0	18.83				
	36	19	3	3	20.0	18.83				
	36	39	3	3	20.0	18.81				
	75	0	3	3	20.0	18.88				

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
10	39700 Low	2501	QPSK	1	0	0	0	23.0	21.65	
				1	24	0	0	23.0	21.61	
				1	49	0	0	23.0	21.47	
				25	0	1	1	22.0	20.69	
				25	12	1	1	22.0	20.75	
				25	24	1	1	22.0	20.73	
			50	0	1	1	22.0	20.73		
			16QAM	1	0	1	1	22.0	21.04	
				1	24	1	1	22.0	21.10	
				1	49	1	1	22.0	21.01	
				25	0	2	2	21.0	19.81	
				25	12	2	2	21.0	19.83	
				25	24	2	2	21.0	19.76	
			64QAM	50	0	2	2	21.0	19.78	
				1	0	2	2	21.0	19.60	
				1	24	2	2	21.0	19.60	
				1	49	2	2	21.0	19.85	
				25	0	3	3	20.0	18.77	
	25	12		3	3	20.0	18.80			
	40160 Low-Mid	2547	2547	QPSK	1	0	0	0	23.0	21.66
					1	24	0	0	23.0	21.60
					1	49	0	0	23.0	21.61
					25	0	1	1	22.0	20.78
					25	12	1	1	22.0	20.81
					25	24	1	1	22.0	20.73
				50	0	1	1	22.0	20.81	
				16QAM	1	0	1	1	22.0	21.16
					1	24	1	1	22.0	21.14
					1	49	1	1	22.0	21.16
					25	0	2	2	21.0	19.79
					25	12	2	2	21.0	19.85
					25	24	2	2	21.0	19.79
				64QAM	50	0	2	2	21.0	19.82
					1	0	2	2	21.0	20.06
					1	24	2	2	21.0	19.97
					1	49	2	2	21.0	20.02
25					0	3	3	20.0	18.71	
25	12	3	3		20.0	18.70				
40620 Mid	2593	2593	QPSK	25	24	3	3	20.0	18.69	
				50	0	3	3	20.0	18.76	
				1	0	0	0	23.0	21.60	
				1	24	0	0	23.0	21.55	
				1	49	0	0	23.0	21.57	
				25	0	1	1	22.0	20.73	
			16QAM	25	12	1	1	22.0	20.75	
				25	24	1	1	22.0	20.72	
				50	0	1	1	22.0	20.72	
				1	0	1	1	22.0	21.01	
				1	24	1	1	22.0	21.04	
				1	49	1	1	22.0	21.04	
			64QAM	25	0	2	2	21.0	19.75	
				25	12	2	2	21.0	19.81	
				25	24	2	2	21.0	19.72	
				50	0	2	2	21.0	19.79	
				1	0	2	2	21.0	20.02	
				1	24	2	2	21.0	20.00	
64QAM	1	49	2	2	21.0	19.98				
	25	0	3	3	20.0	18.64				
	25	12	3	3	20.0	18.68				
	25	24	3	3	20.0	18.64				
	50	0	3	3	20.0	18.64				
	50	0	3	3	20.0	18.72				

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	41080 Mid-High	2639	QPSK	1	0	0	0	23.0	21.79
				1	24	0	0	23.0	21.72
				1	49	0	0	23.0	21.57
				25	0	1	1	22.0	20.86
				25	12	1	1	22.0	20.87
				25	24	1	1	22.0	20.88
			16QAM	50	0	1	1	22.0	20.87
				1	0	1	1	22.0	21.26
				1	24	1	1	22.0	21.23
				1	49	1	1	22.0	21.15
				25	0	2	2	21.0	19.87
				25	12	2	2	21.0	19.92
			64QAM	25	24	2	2	21.0	19.83
				50	0	2	2	21.0	19.88
				1	0	2	2	21.0	20.13
				1	24	2	2	21.0	20.07
				1	49	2	2	21.0	20.03
				25	0	3	3	20.0	18.76
	41540 High	2685	QPSK	25	12	3	3	20.0	18.80
				25	24	3	3	20.0	18.80
				50	0	3	3	20.0	18.82
				1	0	0	0	23.0	21.77
				1	24	0	0	23.0	21.65
				1	49	0	0	23.0	21.69
			16QAM	25	0	1	1	22.0	20.84
				25	12	1	1	22.0	20.82
				25	24	1	1	22.0	20.83
				50	0	1	1	22.0	20.84
				1	0	1	1	22.0	21.26
				1	24	1	1	22.0	21.21
64QAM	1	49	1	1	22.0	21.19			
	25	0	2	2	21.0	19.88			
	25	12	2	2	21.0	19.85			
	25	24	2	2	21.0	19.84			
	50	0	2	2	21.0	19.83			
	1	0	2	2	21.0	20.12			
				1	24	2	2	21.0	20.04
				1	49	2	2	21.0	20.01
				25	0	3	3	20.0	18.74
				25	12	3	3	20.0	18.72
				25	24	3	3	20.0	18.75
				50	0	3	3	20.0	18.82

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	39675 Low	2498.5	QPSK	1	0	0	0	23.0	21.73			
				1	12	0	0	23.0	21.77			
				1	24	0	0	23.0	21.74			
				12	0	1	1	22.0	20.76			
				12	6	1	1	22.0	20.75			
				12	11	1	1	22.0	20.71			
			25	0	1	1	22.0	20.73				
			16QAM	1	0	1	1	22.0	21.27			
				1	12	1	1	22.0	21.26			
				1	24	1	1	22.0	21.19			
				12	0	2	2	21.0	19.80			
				12	6	2	2	21.0	19.84			
				12	11	2	2	21.0	19.80			
			64QAM	25	0	2	2	21.0	19.72			
				1	0	2	2	21.0	20.25			
				1	12	2	2	21.0	20.27			
				1	24	2	2	21.0	20.20			
				12	0	3	3	20.0	18.66			
	12	6		3	3	20.0	18.70					
	40148 Low-Mid	2545.8	2545.8	QPSK	12	11	3	3	20.0	18.67		
					25	0	3	3	20.0	18.63		
					1	0	0	0	23.0	21.84		
					1	12	0	0	23.0	21.83		
					1	24	0	0	23.0	21.80		
					12	0	1	1	22.0	20.77		
				16QAM	12	6	1	1	22.0	20.78		
					12	11	1	1	22.0	20.74		
					25	0	1	1	22.0	20.79		
					1	0	1	1	22.0	21.31		
					1	12	1	1	22.0	21.30		
					1	24	1	1	22.0	21.30		
				64QAM	12	0	2	2	21.0	19.83		
					12	6	2	2	21.0	19.90		
					12	11	2	2	21.0	19.84		
					25	0	2	2	21.0	19.79		
					1	0	2	2	21.0	20.27		
1					12	2	2	21.0	20.33			
40620 Mid	2593	2593	QPSK	1	24	2	2	21.0	20.34			
				12	0	3	3	20.0	18.72			
				12	6	3	3	20.0	18.80			
				12	11	3	3	20.0	18.76			
				25	0	3	3	20.0	18.66			
				1	0	0	0	23.0	21.78			
			16QAM	1	12	0	0	23.0	21.81			
				1	24	0	0	23.0	21.83			
				12	0	1	1	22.0	20.75			
				12	6	1	1	22.0	20.73			
				12	11	1	1	22.0	20.70			
				25	0	1	1	22.0	20.78			
			64QAM	1	0	1	1	22.0	21.31			
				1	12	1	1	22.0	21.26			
				1	24	1	1	22.0	21.30			
				12	0	2	2	21.0	19.80			
				12	6	2	2	21.0	19.88			
				12	11	2	2	21.0	19.80			
2593	2593	2593	64QAM	25	0	2	2	21.0	19.74			
				1	0	2	2	21.0	20.24			
				1	12	2	2	21.0	20.32			
				1	24	2	2	21.0	20.29			
				12	0	3	3	20.0	18.71			
				12	6	3	3	20.0	18.69			
			2593	2593	2593	64QAM	12	11	3	3	20.0	18.67
							25	0	3	3	20.0	18.63

Band: 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	41093 Mid-High	2640.3	QPSK	1	0	0	0	23.0	21.92
				1	12	0	0	23.0	21.95
				1	24	0	0	23.0	21.78
				12	0	1	1	22.0	20.87
				12	6	1	1	22.0	20.84
				12	11	1	1	22.0	20.80
			16QAM	25	0	1	1	22.0	20.80
				1	0	1	1	22.0	21.41
				1	12	1	1	22.0	21.34
				1	24	1	1	22.0	21.26
				12	0	2	2	21.0	19.94
				12	6	2	2	21.0	19.98
			64QAM	12	11	2	2	21.0	19.94
				25	0	2	2	21.0	19.82
				1	0	2	2	21.0	20.44
				1	12	2	2	21.0	20.45
				1	24	2	2	21.0	20.31
				12	0	3	3	20.0	18.78
	41565 High	2687.5	QPSK	12	6	3	3	20.0	18.85
				12	11	3	3	20.0	18.81
				25	0	3	3	20.0	18.72
				1	0	0	0	23.0	21.78
				1	12	0	0	23.0	21.82
				1	24	0	0	23.0	21.80
			16QAM	12	0	1	1	22.0	20.79
				12	6	1	1	22.0	20.84
				12	11	1	1	22.0	20.78
				25	0	1	1	22.0	20.77
				1	0	1	1	22.0	21.27
				1	12	1	1	22.0	21.24
64QAM	1	24	1	1	22.0	21.26			
	12	0	2	2	21.0	19.87			
	12	6	2	2	21.0	19.91			
	12	11	2	2	21.0	19.84			
	25	0	2	2	21.0	19.82			
	1	0	2	2	21.0	20.28			
				1	12	2	2	21.0	20.28
				1	24	2	2	21.0	20.31
				12	0	3	3	20.0	18.78
				12	6	3	3	20.0	18.75
				12	11	3	3	20.0	18.77
				25	0	3	3	20.0	18.70

LTE Band 41 Measured Results (Reduction)

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
20	39750 Low	2506	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.49		
				1	49			19.2	18.18		
				1	99			19.2	18.22		
				50	0			19.2	18.64		
				50	24			19.2	18.52		
				50	49			19.2	18.47		
			100	0	19.2			18.48			
			16QAM	1	0			19.2	18.96		
				1	49			19.2	18.63		
				1	99			19.2	18.63		
				50	0			19.2	18.58		
				50	24			19.2	18.44		
				50	49			19.2	18.42		
			64QAM	100	0			19.2	18.50		
				1	0			19.2	19.16		
				1	49			19.2	19.05		
				1	99			19.2	19.08		
				50	0			19.2	18.77		
				50	24			19.2	18.58		
			40185 Low-Mid	2549.5	QPSK			50	49	19.2	18.50
								50	49	19.2	18.54
								1	0	19.2	18.54
								1	49	19.2	18.49
								1	99	19.2	18.52
	50	0						19.2	18.61		
	50	24						19.2	18.57		
	50	49						19.2	18.55		
	100	0						19.2	18.57		
	16QAM	1						0	19.2	18.54	
		1						49	19.2	19.02	
		1						99	19.2	18.91	
		50			0			19.2	18.99		
		50			24			19.2	18.68		
		50			49			19.2	18.66		
	64QAM	50			49			19.2	18.62		
		100			0			19.2	18.59		
		1			0			19.2	18.96		
		1			49			19.2	18.89		
		1			99			19.2	18.87		
		50			0			19.2	18.61		
	40620 Mid	2593			QPSK			50	24	19.2	18.60
								50	49	19.2	18.55
								100	0	19.2	18.61
			1	0				19.2	18.49		
			1	49				19.2	18.44		
			1	99				19.2	18.48		
			50	0				19.2	18.57		
			50	24				19.2	18.51		
50			49	19.2		18.54					
100			0	19.2		18.51					
16QAM			1	0		19.2	18.95				
			1	49		19.2	18.84				
			1	99	19.2	18.89					
			50	0	19.2	18.62					
			50	24	19.2	18.61					
			50	49	19.2	18.57					
64QAM			100	0	19.2	18.54					
			1	0	19.2	18.90					
			1	49	19.2	18.83					
			1	99	19.2	18.86					
			50	0	19.2	18.55					
			50	24	19.2	18.54					
50			49	19.2	18.48						
100			0	19.2	18.55						

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
20	41055 Mid-High	2636.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.53		
				1	49			19.2	18.42		
				1	99			19.2	18.33		
				50	0			19.2	18.69		
				50	24			19.2	18.67		
				50	49			19.2	18.66		
			100	0	19.2			18.67			
			16QAM	1	0			19.2	18.91		
				1	49			19.2	18.89		
				1	99			19.2	18.81		
				50	0			19.2	18.60		
				50	24			19.2	18.60		
				50	49			19.2	18.60		
			64QAM	100	0			19.2	18.66		
				1	0			19.2	19.14		
				1	49			19.2	19.12		
				1	99			19.2	19.12		
				50	0			19.2	18.79		
				50	24			19.2	18.73		
			41490 High	2680	QPSK			50	49	19.2	18.68
								50	49	19.2	18.70
								100	0	19.2	18.70
								1	0	19.2	18.79
								1	49	19.2	18.79
	1	99						19.2	18.57		
	50	0			19.2			18.52			
	50	24			19.2			18.71			
	50	49			19.2			18.64			
	50	49			19.2			18.65			
	100	0			19.2			18.66			
	16QAM	1			0			19.2	18.66		
		1		0	19.2			19.20			
		1		49	19.2			19.03			
		1		99	19.2			18.98			
		50		0	19.2			18.74			
		50		24	19.2			18.68			
	64QAM	50		49	19.2			18.68			
		100		0	19.2			18.64			
		1		0	19.2			19.14			
		1		49	19.2			18.89			
		1		99	19.2			18.95			
		50		0	19.2			18.72			
		50		24	19.2			18.66			
		50	49	19.2	18.58						
		100	0	19.2	18.65						

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
15	39725 Low	2503.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.78			
				1	37			19.2	18.61			
				1	74			19.2	18.42			
				36	0			19.2	18.70			
				36	19			19.2	18.69			
				36	39			19.2	18.45			
			16QAM	75	0			19.2	18.58			
				1	0			19.2	19.20			
				1	37			19.2	19.05			
				1	74			19.2	18.90			
				36	0			19.2	18.58			
				36	19			19.2	18.61			
			64QAM	36	39			19.2	18.47			
				75	0			19.2	18.54			
				1	0			19.2	18.44			
				1	37			19.2	18.30			
				1	74			19.2	18.22			
				36	0			19.2	18.67			
			40173 Low-Mid	QPSK	2548.3			QPSK	36	19	19.2	18.65
									36	39	19.2	18.52
									75	0	19.2	18.60
									1	0	19.2	18.80
									1	37	19.2	18.68
									1	74	19.2	18.63
	16QAM	36		0				19.2	18.63			
		36		19				19.2	18.62			
		36		39				19.2	18.58			
		75		0				19.2	18.60			
		1		0				19.2	18.81			
		1		37				19.2	18.62			
	64QAM	1	74	19.2	18.70							
		36	0	19.2	18.66							
		36	19	19.2	18.70							
		36	39	19.2	18.61							
		75	0	19.2	18.58							
		1	0	19.2	18.77							
	40620 Mid	QPSK	2593	QPSK	1			37	19.2	18.61		
					1			74	19.2	18.65		
					36			0	19.2	18.60		
					36			19	19.2	18.57		
					36			39	19.2	18.56		
					75			0	19.2	18.57		
		16QAM		1	0			19.2	18.74			
				1	37			19.2	18.59			
				1	74			19.2	18.62			
				36	0			19.2	18.53			
				36	19			19.2	18.56			
				36	39			19.2	18.52			
64QAM	75	0	19.2	18.52								
	1	0	19.2	18.76								
	1	37	19.2	18.59								
	1	74	19.2	18.65								
	36	0	19.2	18.58								
	36	19	19.2	18.61								
64QAM	36	39	19.2	18.55								
	75	0	19.2	18.52								
	1	0	19.2	18.69								
	1	37	19.2	18.57								
	1	74	19.2	18.60								
	36	0	19.2	18.56								
64QAM	36	19	19.2	18.56								
	36	39	19.2	18.54								
	75	0	19.2	18.53								
	75	0	19.2	18.53								
	75	0	19.2	18.53								
	75	0	19.2	18.53								

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
15	41068 Mid-High	2637.8	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.66		
				1	37			19.2	18.58		
				1	74			19.2	18.47		
				36	0			19.2	18.70		
				36	19			19.2	18.68		
				36	39			19.2	18.55		
				75	0			19.2	18.62		
			16QAM	1	0			19.2	19.10		
				1	37			19.2	18.98		
				1	74			19.2	18.87		
				36	0			19.2	18.65		
				36	19			19.2	18.66		
				36	39			19.2	18.56		
				75	0			19.2	18.63		
			64QAM	1	0			19.2	18.53		
				1	37			19.2	18.37		
				1	74			19.2	18.31		
				36	0			19.2	18.73		
				36	19			19.2	18.69		
				36	39			19.2	18.56		
				75	0			19.2	18.64		
			41515 High	2682.5	QPSK			1	0	19.2	18.85
								1	37	19.2	18.70
								1	74	19.2	18.69
	36	0						19.2	18.68		
	36	19						19.2	18.66		
	36	39						19.2	18.61		
	75	0						19.2	18.62		
	16QAM	1			0			19.2	18.86		
		1			37			19.2	18.64		
		1			74			19.2	18.68		
		36			0			19.2	18.69		
		36			19			19.2	18.69		
		36			39			19.2	18.70		
		75			0			19.2	18.62		
	64QAM	1			0			19.2	18.80		
		1			37			19.2	18.70		
		1			74			19.2	18.68		
		36			0			19.2	18.61		
		36			19			19.2	18.61		
		36			39			19.2	18.61		
		75			0			19.2	18.62		

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	39700 Low	2501	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.55
				1	24			19.2	18.60
				1	49			19.2	18.35
				25	0			19.2	18.53
				25	12			19.2	18.58
				25	24			19.2	18.57
			50	0	19.2			18.57	
			16QAM	1	0			19.2	19.03
				1	24			19.2	19.02
				1	49			19.2	18.79
				25	0			19.2	18.57
				25	12			19.2	18.63
				25	24			19.2	18.55
			64QAM	50	0			19.2	18.52
				1	0			19.2	18.37
				1	24			19.2	18.36
				1	49			19.2	18.23
				25	0			19.2	18.57
				25	12			19.2	18.56
			40160 Low-Mid	2547	QPSK			25	24
	25	24						19.2	18.55
	50	0						19.2	18.46
	1	0						19.2	18.47
	1	24						19.2	18.44
	1	49						19.2	18.46
	16QAM	25			0			19.2	18.56
		25			12			19.2	18.57
		25			24			19.2	18.51
		50			0			19.2	18.60
		1			0			19.2	18.91
		1			24			19.2	18.89
	64QAM	1			49			19.2	18.92
		25			0			19.2	18.58
		25	12	19.2	18.63				
		25	24	19.2	18.57				
		50	0	19.2	18.61				
		1	0	19.2	18.88				
		1	24	19.2	18.79				
		1	49	19.2	18.84				
	40620 Mid	2593	QPSK	25	0			19.2	18.44
				25	12			19.2	18.54
				25	24			19.2	18.49
				50	0			19.2	18.51
				1	0			19.2	18.87
				1	24			19.2	18.85
			16QAM	1	49			19.2	18.85
				25	0			19.2	18.56
				25	12			19.2	18.59
				25	24			19.2	18.51
				50	0			19.2	18.57
1				0	19.2	18.80			
64QAM			1	24	19.2	18.77			
			1	49	19.2	18.78			
	25	0	19.2	18.40					
	25	12	19.2	18.43					
	25	24	19.2	18.41					
	50	0	19.2	18.47					

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	41080 Mid-High	2639	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.63		
				1	24			19.2	18.58		
				1	49			19.2	18.45		
				25	0			19.2	18.64		
				25	12			19.2	18.62		
				25	24			19.2	18.61		
			50	0	19.2			18.60			
			16QAM	1	0			19.2	19.06		
				1	24			19.2	19.02		
				1	49			19.2	18.93		
				25	0			19.2	18.60		
				25	12			19.2	18.61		
				25	24			19.2	18.65		
			64QAM	50	0			19.2	18.57		
				1	0			19.2	19.14		
				1	24			19.2	19.08		
				1	49			19.2	19.00		
				25	0			19.2	18.57		
				25	12			19.2	18.61		
			41540 High	2685	QPSK			25	24	19.2	18.54
								25	24	19.2	18.59
								50	0	19.2	18.59
								1	0	19.2	18.67
								1	24	19.2	18.63
	1	49						19.2	18.59		
	25	0						19.2	18.68		
	25	12						19.2	18.64		
	25	24						19.2	18.63		
	50	0						19.2	18.68		
	16QAM	1						0	19.2	18.68	
		1						24	19.2	19.10	
		1			49			19.2	19.05		
		25			0			19.2	19.05		
		25			12			19.2	18.68		
		25			24			19.2	18.71		
	64QAM	50			0			19.2	18.67		
		1			0			19.2	18.72		
		1			24			19.2	18.93		
		1			49			19.2	18.89		
		25			0			19.2	18.88		
		25			12			19.2	18.57		
	QPSK	25			24			19.2	18.51		
		25			24			19.2	18.55		
		50	0	19.2	18.55						
		50	0	19.2	18.64						
		50	0	19.2	18.64						
		50	0	19.2	18.64						

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	39675 Low	2498.5	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.52
				1	12			19.2	18.49
				1	24			19.2	18.51
				12	0			19.2	18.52
				12	6			19.2	18.55
				12	11			19.2	18.58
			25	0	19.2			18.55	
			16QAM	1	0			19.2	18.74
				1	12			19.2	18.69
				1	24			19.2	18.69
				12	0			19.2	18.57
				12	6			19.2	18.57
				12	11			19.2	18.57
			64QAM	25	0			19.2	18.54
				1	0			19.2	18.49
				1	12			19.2	18.55
				1	24			19.2	18.45
				12	0			19.2	18.40
				12	6			19.2	18.46
			40148 Low-Mid	2545.8	QPSK			12	11
	25	0						19.2	18.47
	1	0						19.2	18.67
	1	12						19.2	18.64
	1	24						19.2	18.61
	12	0						19.2	18.56
	16QAM	12			6			19.2	18.55
		12			11			19.2	18.52
		25			0			19.2	18.54
		1			0			19.2	19.01
		1			12			19.2	19.09
		1			24			19.2	19.03
	64QAM	12			0			19.2	18.62
		12			6			19.2	18.70
		12	11	19.2	18.65				
		25	0	19.2	18.52				
		1	0	19.2	19.11				
		1	12	19.2	19.14				
		1	24	19.2	19.07				
		12	0	19.2	18.52				
	40620 Mid	2593	QPSK	12	6			19.2	18.55
				12	11			19.2	18.53
				25	0			19.2	18.46
				1	0			19.2	18.58
				1	12			19.2	18.62
				1	24			19.2	18.60
			16QAM	12	0			19.2	18.51
				12	6			19.2	18.52
				12	11			19.2	18.47
				25	0			19.2	18.53
				1	0			19.2	19.02
1				12	19.2	19.05			
64QAM			1	24	19.2	19.00			
			12	0	19.2	18.58			
	12	6	19.2	18.64					
	12	11	19.2	18.61					
	25	0	19.2	18.51					
	1	0	19.2	19.10					
	1	12	19.2	19.16					
	1	24	19.2	19.06					
12	0	19.2	18.43						
12	6	19.2	18.48						
12	11	19.2	18.44						
25	0	19.2	18.40						

Band : 41

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	41093 Mid-High	2640.3	QPSK	1	0	MPR is disabled when power reduction is enabled		19.2	18.41			
				1	12			19.2	18.39			
				1	24			19.2	18.34			
				12	0			19.2	18.63			
				12	6			19.2	18.60			
				12	11			19.2	18.66			
				25	0			19.2	18.62			
			16QAM	1	0			19.2	18.91			
				1	12			19.2	18.89			
				1	24			19.2	18.82			
				12	0			19.2	18.63			
				12	6			19.2	18.68			
				12	11			19.2	18.64			
				25	0			19.2	18.64			
			64QAM	1	0			19.2	19.10			
				1	12			19.2	19.08			
				1	24			19.2	19.19			
				12	0			19.2	18.66			
				12	6			19.2	18.75			
				12	11			19.2	18.70			
				25	0			19.2	18.62			
			41540 High	2685				QPSK	1	0	19.2	18.70
									1	12	19.2	18.76
									1	24	19.2	18.63
	12	0							19.2	18.64		
	12	6							19.2	18.60		
	12	11							19.2	18.58		
	25	0							19.2	18.62		
	16QAM	1						0	19.2	19.12		
		1						12	19.2	19.13		
		1						24	19.2	19.13		
		12						0	19.2	18.71		
		12						6	19.2	18.76		
		12						11	19.2	18.73		
		25						0	19.2	18.61		
	64QAM	1						0	19.2	19.18		
		1						12	19.2	19.13		
		1						24	19.2	19.14		
		12						0	19.2	18.55		
		12						6	19.2	18.59		
		12						11	19.2	18.54		
		25						0	19.2	18.46		

LTE Band 48 Measured Results (Full)

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
20	55340 Low	3560	QPSK	1	0	0	0	20.0	18.84	
				1	49	0	0	20.0	18.37	
				1	99	0	0	20.0	18.43	
				50	0	3	3	17.0	15.81	
				50	24	3	3	17.0	15.57	
				50	49	3	3	17.0	15.55	
			100	0	3	3	17.0	15.66		
			16QAM	1	0	3	3	17.0	15.77	
				1	49	3	3	17.0	15.60	
				1	99	3	3	17.0	15.49	
				50	0	4	4	16.0	14.76	
				50	24	4	4	16.0	14.72	
				50	49	4	4	16.0	14.68	
			64QAM	100	0	4	4	16.0	14.66	
				1	0	4	4	16.0	14.84	
				1	49	4	4	16.0	14.54	
				1	99	4	4	16.0	14.53	
				50	0	5	5	15.0	13.74	
	50	24		5	5	15.0	13.73			
	55773 Low-Mid	3603.3		QPSK	50	49	5	5	15.0	13.54
					100	0	5	5	15.0	13.66
					1	0	0	0	20.0	18.59
					1	49	0	0	20.0	18.42
					1	99	0	0	20.0	18.46
					50	0	3	3	17.0	15.70
				16QAM	50	24	3	3	17.0	15.56
					50	49	3	3	17.0	15.55
					100	0	3	3	17.0	15.55
					1	0	3	3	17.0	15.78
					1	49	3	3	17.0	15.39
					1	99	3	3	17.0	15.43
				64QAM	50	0	4	4	16.0	14.63
					50	24	4	4	16.0	14.65
					50	49	4	4	16.0	14.43
					100	0	4	4	16.0	14.60
					1	0	4	4	16.0	15.06
1					49	4	4	16.0	14.81	
				1	99	4	4	16.0	14.69	
				50	0	5	5	15.0	13.72	
				50	24	5	5	15.0	13.61	
				50	49	5	5	15.0	13.59	
				100	0	5	5	15.0	13.68	

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
20	56207 Mid-High	3646.7	QPSK	1	0	0	0	20.0	18.61	
				1	49	0	0	20.0	18.28	
				1	99	0	0	20.0	18.30	
				50	0	3	3	17.0	15.63	
				50	24	3	3	17.0	15.62	
				50	49	3	3	17.0	15.58	
			100	0	3	3	17.0	15.53		
			16QAM	1	0	3	3	17.0	15.85	
				1	49	3	3	17.0	15.39	
				1	99	3	3	17.0	15.39	
				50	0	4	4	16.0	14.57	
				50	24	4	4	16.0	14.44	
				50	49	4	4	16.0	14.34	
			64QAM	100	0	4	4	16.0	14.49	
				1	0	4	4	16.0	15.08	
				1	49	4	4	16.0	14.75	
				1	99	4	4	16.0	14.70	
				50	0	5	5	15.0	13.56	
	50	24		5	5	15.0	13.52			
	56640 High	3690	QPSK	50	49	5	5	15.0	13.55	
				100	0	5	5	15.0	13.46	
				16QAM	1	0	3	3	17.0	15.36
					1	49	3	3	17.0	15.62
					1	99	3	3	17.0	15.43
					50	0	4	4	16.0	14.47
			50		24	4	4	16.0	14.38	
			50		49	4	4	16.0	14.31	
			64QAM	100	0	4	4	16.0	14.34	
				1	0	4	4	16.0	15.04	
				1	49	4	4	16.0	14.73	
1				99	4	4	16.0	14.77		
50	0	5		5	15.0	13.45				
50	24	5		5	15.0	13.52				
			50	49	5	5	15.0	13.43		
			100	0	5	5	15.0	13.40		

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
15	55315 Low	3557.5	QPSK	1	0	0	0	20.0	18.75
				1	37	0	0	20.0	18.45
				1	74	0	0	20.0	18.48
				36	0	3	3	17.0	15.72
				36	19	3	3	17.0	15.56
				36	39	3	3	17.0	15.49
			75	0	3	3	17.0	15.49	
			16QAM	1	0	3	3	17.0	15.63
				1	37	3	3	17.0	15.32
				1	74	3	3	17.0	15.29
				36	0	4	4	16.0	14.74
				36	19	4	4	16.0	14.55
				36	39	4	4	16.0	14.48
			64QAM	75	0	4	4	16.0	14.58
				1	0	4	4	16.0	14.40
				1	37	4	4	16.0	14.29
				1	74	4	4	16.0	14.31
				36	0	5	5	15.0	13.75
	36	19		5	5	15.0	13.71		
	55765 Low-Mid	3602.5	QPSK	36	39	5	5	15.0	13.64
				75	0	5	5	15.0	13.60
				1	0	0	0	20.0	18.66
				1	37	0	0	20.0	18.45
				1	74	0	0	20.0	18.51
				36	0	3	3	17.0	15.51
			16QAM	36	19	3	3	17.0	15.49
				36	39	3	3	17.0	15.43
				75	0	3	3	17.0	15.53
				1	0	3	3	17.0	15.56
				1	37	3	3	17.0	15.23
1				74	3	3	17.0	15.27	
64QAM	36	0	4	4	16.0	14.51			
	36	19	4	4	16.0	14.44			
	36	39	4	4	16.0	14.34			
	75	0	4	4	16.0	14.51			
	1	0	4	4	16.0	14.31			
	1	37	4	4	16.0	14.23			
				1	74	4	4	16.0	14.26
				36	0	5	5	15.0	13.56
				36	19	5	5	15.0	13.55
				36	39	5	5	15.0	13.47
				75	0	5	5	15.0	13.47
				75	0	5	5	15.0	13.47

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
15	56215 Mid-High	3647.5	QPSK	1	0	0	0	20.0	18.77
				1	37	0	0	20.0	18.53
				1	74	0	0	20.0	18.49
				36	0	3	3	17.0	15.49
				36	19	3	3	17.0	15.51
				36	39	3	3	17.0	15.33
			75	0	3	3	17.0	15.50	
			16QAM	1	0	3	3	17.0	15.43
				1	37	3	3	17.0	15.37
				1	74	3	3	17.0	15.35
				36	0	4	4	16.0	14.54
				36	19	4	4	16.0	14.39
				36	39	4	4	16.0	14.38
			64QAM	75	0	4	4	16.0	14.43
				1	0	4	4	16.0	14.37
				1	37	4	4	16.0	14.34
				1	74	4	4	16.0	14.28
				36	0	5	5	15.0	13.56
	36	19		5	5	15.0	13.50		
	56665 High	3692.5	QPSK	36	39	5	5	15.0	13.50
				75	0	5	5	15.0	13.48
				1	0	0	0	20.0	18.69
				1	37	0	0	20.0	18.44
				1	74	0	0	20.0	18.34
				36	0	3	3	17.0	15.27
			16QAM	36	19	3	3	17.0	15.47
				36	39	3	3	17.0	15.39
				75	0	3	3	17.0	15.57
				1	0	3	3	17.0	15.37
				1	37	3	3	17.0	15.30
1				74	3	3	17.0	15.29	
64QAM	36	0	4	4	16.0	14.39			
	36	19	4	4	16.0	14.53			
	36	39	4	4	16.0	14.30			
	75	0	4	4	16.0	14.38			
	1	0	4	4	16.0	14.22			
	1	37	4	4	16.0	14.20			
				1	74	4	4	16.0	14.25
				36	0	5	5	15.0	13.48
				36	19	5	5	15.0	13.47
				36	39	5	5	15.0	13.37
				75	0	5	5	15.0	13.38
				75	0	5	5	15.0	13.38

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	55290 Low	3555	QPSK	1	0	0	0	20.0	18.64
				1	24	0	0	20.0	18.48
				1	49	0	0	20.0	18.46
				25	0	1	1	19.0	17.58
				25	12	1	1	19.0	17.61
				25	24	1	1	19.0	17.50
			16QAM	50	0	1	1	19.0	17.57
				1	0	1	1	19.0	17.69
				1	24	1	1	19.0	17.55
				1	49	1	1	19.0	17.48
				25	0	2	2	18.0	16.77
				25	12	2	2	18.0	16.64
			64QAM	25	24	2	2	18.0	16.53
				50	0	2	2	18.0	16.61
				1	0	2	2	18.0	16.69
	1	24		2	2	18.0	16.51		
	1	49		2	2	18.0	16.57		
	25	0		3	3	17.0	15.56		
	55757 Low-Mid	3601.7	QPSK	25	12	3	3	17.0	15.53
				25	24	3	3	17.0	15.43
				50	0	3	3	17.0	15.62
				1	0	0	0	20.0	18.85
				1	24	0	0	20.0	18.69
				1	49	0	0	20.0	18.68
			16QAM	25	0	1	1	19.0	17.75
				25	12	1	1	19.0	17.74
				25	24	1	1	19.0	17.70
				50	0	1	1	19.0	17.78
				1	0	1	1	19.0	18.12
				1	24	1	1	19.0	17.97
64QAM			1	49	1	1	19.0	17.97	
			25	0	2	2	18.0	16.78	
			25	12	2	2	18.0	16.79	
	25	24	2	2	18.0	16.73			
	50	0	2	2	18.0	16.80			
	1	0	2	2	18.0	16.74			
				1	24	2	2	18.0	16.55
				1	49	2	2	18.0	16.61
				25	0	3	3	17.0	15.83
				25	12	3	3	17.0	15.83
				25	24	3	3	17.0	15.78
				50	0	3	3	17.0	15.81

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	56223 Mid-High	3648.3	QPSK	1	0	0	0	20.0	18.78
				1	24	0	0	20.0	18.65
				1	49	0	0	20.0	18.61
				25	0	1	1	19.0	17.76
				25	12	1	1	19.0	17.74
				25	24	1	1	19.0	17.67
			16QAM	50	0	1	1	19.0	17.77
				1	0	1	1	19.0	18.07
				1	24	1	1	19.0	17.96
				1	49	1	1	19.0	18.00
				25	0	2	2	18.0	16.78
				25	12	2	2	18.0	16.76
			64QAM	25	24	2	2	18.0	16.69
				50	0	2	2	18.0	16.78
				1	0	2	2	18.0	16.66
				1	24	2	2	18.0	16.56
				1	49	2	2	18.0	16.58
				25	0	3	3	17.0	15.79
	56690 High	3695	QPSK	25	12	3	3	17.0	15.77
				25	24	3	3	17.0	15.71
				50	0	3	3	17.0	15.75
				1	0	0	0	20.0	18.45
				1	24	0	0	20.0	18.29
				1	49	0	0	20.0	18.31
			16QAM	25	0	1	1	19.0	17.26
				25	12	1	1	19.0	17.20
				25	24	1	1	19.0	17.18
				50	0	1	1	19.0	17.26
				1	0	1	1	19.0	17.55
				1	24	1	1	19.0	17.39
64QAM	1	49	1	1	19.0	17.36			
	25	0	2	2	18.0	16.34			
	25	12	2	2	18.0	16.23			
	25	24	2	2	18.0	16.22			
	50	0	2	2	18.0	16.26			
	1	0	2	2	18.0	16.19			
				1	24	2	2	18.0	16.05
				1	49	2	2	18.0	16.02
				25	0	3	3	17.0	15.36
				25	12	3	3	17.0	15.34
				25	24	3	3	17.0	15.24
				50	0	3	3	17.0	15.24

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
5	55265 Low	3552.5	QPSK	1	0	0	0	20.0	18.84	
				1	12	0	0	20.0	18.78	
				1	24	0	0	20.0	18.81	
				12	0	1	1	19.0	17.93	
				12	6	1	1	19.0	17.91	
				12	11	1	1	19.0	17.89	
			25	0	1	1	19.0	17.89		
			16QAM	1	0	1	1	19.0	18.15	
				1	12	1	1	19.0	18.05	
				1	24	1	1	19.0	18.05	
				12	0	2	2	18.0	16.99	
				12	6	2	2	18.0	16.96	
				12	11	2	2	18.0	16.95	
			64QAM	25	0	2	2	18.0	16.91	
				1	0	2	2	18.0	16.89	
				1	12	2	2	18.0	16.82	
				1	24	2	2	18.0	16.87	
				12	0	3	3	17.0	15.97	
	12	6		3	3	17.0	15.93			
	55748 Low-Mid	3600.8	3600.8	QPSK	12	11	3	3	17.0	15.92
					25	0	3	3	17.0	15.95
					1	0	0	0	20.0	18.81
					1	12	0	0	20.0	18.65
					1	24	0	0	20.0	18.74
					12	0	1	1	19.0	17.74
				16QAM	12	6	1	1	19.0	17.75
					12	11	1	1	19.0	17.76
					25	0	1	1	19.0	17.73
					1	0	1	1	19.0	18.00
					1	12	1	1	19.0	17.89
1					24	1	1	19.0	17.92	
64QAM	12	0	2	2	18.0	16.80				
	12	6	2	2	18.0	16.81				
	12	11	2	2	18.0	16.75				
	25	0	2	2	18.0	16.75				
	1	0	2	2	18.0	16.85				
	1	12	2	2	18.0	16.76				
64QAM	1	24	2	2	18.0	16.76				
	12	0	3	3	17.0	15.79				
	12	6	3	3	17.0	15.79				
	12	11	3	3	17.0	15.75				
	25	0	3	3	17.0	15.78				
	25	0	3	3	17.0	15.78				

Band: 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	56232 Mid-High	3649.2	QPSK	1	0	0	0	20.0	18.69
				1	12	0	0	20.0	18.63
				1	24	0	0	20.0	18.70
				12	0	1	1	19.0	17.74
				12	6	1	1	19.0	17.73
				12	11	1	1	19.0	17.70
			16QAM	25	0	1	1	19.0	17.72
				1	0	1	1	19.0	17.97
				1	12	1	1	19.0	17.84
				1	24	1	1	19.0	17.86
				12	0	2	2	18.0	16.76
				12	6	2	2	18.0	16.75
			64QAM	12	11	2	2	18.0	16.76
				25	0	2	2	18.0	16.73
				1	0	2	2	18.0	16.78
				1	12	2	2	18.0	16.68
				1	24	2	2	18.0	16.71
				12	0	3	3	17.0	15.71
	56715 High	3697.5	QPSK	12	6	3	3	17.0	15.71
				12	11	3	3	17.0	15.71
				25	0	3	3	17.0	15.75
				1	0	0	0	20.0	18.73
				1	12	0	0	20.0	18.58
				1	24	0	0	20.0	18.64
			16QAM	12	0	1	1	19.0	17.76
				12	6	1	1	19.0	17.75
				12	11	1	1	19.0	17.71
				25	0	1	1	19.0	17.71
				1	0	1	1	19.0	17.97
				1	12	1	1	19.0	17.86
64QAM	1	24	1	1	19.0	17.85			
	12	0	2	2	18.0	16.78			
	12	6	2	2	18.0	16.79			
	12	11	2	2	18.0	16.74			
	25	0	2	2	18.0	16.70			
	1	0	2	2	18.0	16.76			
			1	12	2	2	18.0	16.70	
			1	24	2	2	18.0	16.69	
			12	0	3	3	17.0	15.71	
			12	6	3	3	17.0	15.72	
			12	11	3	3	17.0	15.66	
			25	0	3	3	17.0	15.72	

LTE Band 48 Measured Results(Reduction)

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
20	55340 Low	3560	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.50		
				1	49			11.8	11.06		
				1	99			11.8	11.18		
				50	0			11.8	11.48		
				50	24			11.8	11.33		
				50	49			11.8	11.29		
			100	0	11.8			11.32			
			16QAM	1	0			11.8	11.58		
				1	49			11.8	11.17		
				1	99			11.8	11.17		
				50	0			11.8	11.47		
				50	24			11.8	11.34		
				50	49			11.8	11.19		
			64QAM	100	0			11.8	11.34		
				1	0			11.8	11.71		
				1	49			11.8	11.67		
				1	99			11.8	11.57		
				50	0			11.8	11.59		
				50	24			11.8	11.33		
			55773 Low-Mid	3603.3	QPSK			50	49	11.8	11.31
								50	24	11.8	11.38
								50	49	11.8	11.38
								100	0	11.8	11.38
								1	0	11.8	11.62
	1	49						11.8	11.62		
	1	99						11.8	11.20		
	50	0						11.8	11.23		
	50	24						11.8	11.48		
	50	49						11.8	11.35		
	50	49						11.8	11.42		
	100	0						11.8	11.40		
	16QAM	1			0			11.8	11.52		
		1			49			11.8	11.25		
		1			99			11.8	11.29		
		50			0			11.8	11.43		
		50			24			11.8	11.44		
		50			49			11.8	11.41		
	64QAM	100			0			11.8	11.36		
		1			0			11.8	11.77		
		1			49			11.8	11.70		
		1			99			11.8	11.74		
		50			0			11.8	11.62		
		50			24			11.8	11.41		
				50	49			11.8	11.44		
				50	49			11.8	11.44		
				100	0			11.8	11.45		

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
	56207 Mid-High	3646.7	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.60		
				1	49			11.8	11.31		
				1	99			11.8	11.47		
				50	0			11.8	11.68		
				50	24			11.8	11.55		
				50	49			11.8	11.43		
			100	0	11.8			11.63			
			16QAM	1	0			11.8	11.79		
				1	49			11.8	11.35		
				1	99			11.8	11.33		
				50	0			11.8	11.56		
				50	24			11.8	11.52		
				50	49			11.8	11.55		
			64QAM	100	0			11.8	11.56		
				1	0			11.8	11.71		
				1	49			11.8	11.74		
				1	99			11.8	11.73		
				50	0			11.8	11.51		
				50	24			11.8	11.44		
			56640 High	3690	QPSK			50	49	11.8	11.46
								50	49	11.8	11.56
								100	0	11.8	11.56
								1	0	11.8	11.69
								1	49	11.8	11.42
	1	99						11.8	11.51		
	50	0			11.8			11.54			
	50	24			11.8			11.37			
	50	49			11.8			11.49			
	100	0			11.8			11.48			
	16QAM	1			0			11.8	11.69		
		1			49			11.8	11.34		
		1			99			11.8	11.54		
		50			0			11.8	11.55		
		50			24			11.8	11.51		
		50			49			11.8	11.63		
	64QAM	100			0			11.8	11.50		
		1			0			11.8	11.73		
		1			49			11.8	11.79		
		1			99			11.8	11.78		
		50			0			11.8	11.71		
		50			24			11.8	11.55		
		50			49			11.8	11.64		
		100			0			11.8	11.55		

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
15	55315 Low	3557.5	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.59		
				1	37			11.8	11.32		
				1	74			11.8	11.45		
				36	0			11.8	11.51		
				36	19			11.8	11.55		
				36	39			11.8	11.32		
			16QAM	75	0			11.8	11.34		
				1	0			11.8	11.60		
				1	37			11.8	11.31		
				1	74			11.8	11.30		
				36	0			11.8	11.57		
				36	19			11.8	11.30		
			64QAM	36	39			11.8	11.36		
				75	0			11.8	11.45		
				1	0			11.8	11.17		
				1	37			11.8	10.87		
				1	74			11.8	10.91		
				36	0			11.8	11.53		
			55765 Low-Mid	3602.5	QPSK			36	19	11.8	11.42
								36	39	11.8	11.55
								75	0	11.8	11.46
								1	0	11.8	11.53
								1	37	11.8	11.30
								1	74	11.8	11.42
	16QAM	36			0			11.8	11.46		
		36			19			11.8	11.31		
		36			39			11.8	11.49		
		75			0			11.8	11.39		
		1			0			11.8	11.44		
		1			37			11.8	11.28		
	64QAM	1	74	11.8	11.24						
		36	0	11.8	11.54						
		36	19	11.8	11.53						
		36	39	11.8	11.27						
		75	0	11.8	11.48						
		1	0	11.8	11.02						
				1	37			11.8	10.91		
				1	74			11.8	10.90		
				36	0			11.8	11.53		
				36	19			11.8	11.45		
				36	39			11.8	11.33		
				75	0			11.8	11.43		

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
	56215 Mid-High	3647.5	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.60		
				1	37			11.8	11.41		
				1	74			11.8	11.52		
				36	0			11.8	11.53		
				36	19			11.8	11.54		
				36	39			11.8	11.46		
				75	0			11.8	11.45		
			16QAM	1	0			11.8	11.70		
				1	37			11.8	11.31		
				1	74			11.8	11.50		
				36	0			11.8	11.44		
				36	19			11.8	11.44		
				36	39			11.8	11.48		
				75	0			11.8	11.51		
			64QAM	1	0			11.8	11.08		
				1	37			11.8	10.90		
				1	74			11.8	10.97		
				36	0			11.8	11.68		
				36	19			11.8	11.59		
				36	39			11.8	11.56		
				75	0			11.8	11.45		
			56665 High	3692.5	QPSK			1	0	11.8	11.69
								1	37	11.8	11.60
								1	74	11.8	11.78
	36	0						11.8	11.41		
	36	19						11.8	11.58		
	36	39						11.8	11.54		
	75	0						11.8	11.49		
	16QAM	1			0			11.8	11.53		
		1			37			11.8	11.56		
		1			74			11.8	11.40		
		36			0			11.8	11.48		
		36			19			11.8	11.59		
		36			39			11.8	11.54		
		75			0			11.8	11.61		
	64QAM	1			0			11.8	11.15		
		1			37			11.8	11.07		
		1			74			11.8	11.07		
		36			0			11.8	11.51		
		36			19			11.8	11.60		
		36			39			11.8	11.66		
		75			0			11.8	11.59		

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
10	55290 Low	3555	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.52		
				1	24			11.8	11.39		
				1	49			11.8	11.35		
				25	0			11.8	11.42		
				25	12			11.8	11.48		
				25	24			11.8	11.31		
			50	0	11.8			11.38			
			16QAM	1	0			11.8	11.49		
				1	24			11.8	11.31		
				1	49			11.8	11.32		
				25	0			11.8	11.41		
				25	12			11.8	11.34		
				25	24			11.8	11.40		
			64QAM	50	0			11.8	11.50		
				1	0			11.8	11.18		
				1	24			11.8	10.86		
				1	49			11.8	10.74		
				25	0			11.8	11.49		
				25	12			11.8	11.50		
			55757 Low-Mid	3601.7	QPSK			25	24	11.8	11.43
								25	24	11.8	11.53
								50	0	11.8	11.49
								1	0	11.8	11.49
								1	24	11.8	11.33
	1	49						11.8	11.32		
	25	0						11.8	11.36		
	25	12						11.8	11.37		
	25	24						11.8	11.24		
	50	0						11.8	11.41		
	16QAM	1						0	11.8	11.43	
		1						24	11.8	11.23	
		1			49			11.8	11.21		
		25			0			11.8	11.38		
		25			12			11.8	11.40		
		25			24			11.8	11.30		
	64QAM	50			0			11.8	11.43		
		1			0			11.8	11.32		
		1			24			11.8	11.03		
		1			49			11.8	10.94		
		25			0			11.8	11.40		
		25			12			11.8	11.36		
								25	24	11.8	11.39
								50	0	11.8	11.36

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
	56223 Mid-High	3648.3	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.62		
				1	24			11.8	11.46		
				1	49			11.8	11.40		
				25	0			11.8	11.55		
				25	12			11.8	11.54		
				25	24			11.8	11.34		
			50	0	11.8			11.53			
			16QAM	1	0			11.8	11.54		
				1	24			11.8	11.34		
				1	49			11.8	11.28		
				25	0			11.8	11.47		
				25	12			11.8	11.45		
				25	24			11.8	11.47		
			64QAM	50	0			11.8	11.54		
				1	0			11.8	10.90		
				1	24			11.8	10.91		
				1	49			11.8	11.35		
				25	0			11.8	11.53		
				25	12			11.8	11.47		
			56690 High	3695	QPSK			25	24	11.8	11.42
								50	0	11.8	11.42
								1	0	11.8	11.74
								1	24	11.8	11.66
								1	49	11.8	11.60
	25	0						11.8	11.57		
	25	12			11.8			11.67			
	25	24			11.8			11.61			
	50	0			11.8			11.54			
	16QAM	1			0			11.8	11.69		
		1			24			11.8	11.59		
		1			49			11.8	11.57		
		25			0			11.8	11.60		
		25			12			11.8	11.65		
		25			24			11.8	11.53		
	64QAM	50			0			11.8	11.67		
		1			0			11.8	11.18		
		1			24			11.8	11.05		
		1			49			11.8	11.13		
		25			0			11.8	11.58		
		25			12			11.8	11.67		
	25	24			11.8			11.58			
	50	0			11.8			11.55			

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
5	55265 Low	3552.5	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.40		
				1	12			11.8	11.36		
				1	24			11.8	11.39		
				12	0			11.8	11.49		
				12	6			11.8	11.37		
				12	11			11.8	11.28		
			25	0	11.8			11.38			
			16QAM	1	0			11.8	11.30		
				1	12			11.8	11.28		
				1	24			11.8	11.32		
				12	0			11.8	11.31		
				12	6			11.8	11.39		
				12	11			11.8	11.33		
			64QAM	25	0			11.8	11.35		
				1	0			11.8	11.41		
				1	12			11.8	11.30		
				1	24			11.8	11.49		
				12	0			11.8	11.38		
				12	6			11.8	11.40		
			55748 Low-Mid	3600.8	QPSK			12	11	11.8	11.31
								25	0	11.8	11.32
								1	0	11.8	11.39
								1	12	11.8	11.30
								1	24	11.8	11.36
	12	0						11.8	11.29		
	12	6			11.8			11.45			
	12	11			11.8			11.44			
	25	0			11.8			11.31			
	16QAM	1			0			11.8	11.27		
		1			12			11.8	11.18		
		1			24			11.8	11.15		
		12		0	11.8			11.44			
		12		6	11.8			11.30			
		12		11	11.8			11.43			
	64QAM	25		0	11.8			11.31			
		1		0	11.8			11.08			
		1		12	11.8			11.01			
		1		24	11.8			11.08			
		12		0	11.8			11.28			
		12		6	11.8			11.48			
		12		11	11.8			11.30			
		25		0	11.8			11.47			

Band : 48

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
	56232 Mid-High	3649.2	QPSK	1	0	MPR is disabled when power reduction is enabled		11.8	11.53		
				1	12			11.8	11.45		
				1	24			11.8	11.50		
				12	0			11.8	11.32		
				12	6			11.8	11.49		
				12	11			11.8	11.36		
				25	0			11.8	11.45		
			16QAM	1	0			11.8	11.30		
				1	12			11.8	11.22		
				1	24			11.8	11.28		
				12	0			11.8	11.50		
				12	6			11.8	11.40		
				12	11			11.8	11.33		
				25	0			11.8	11.44		
			64QAM	1	0			11.8	11.20		
				1	12			11.8	11.14		
				1	24			11.8	11.11		
				12	0			11.8	11.34		
				12	6			11.8	11.39		
				12	11			11.8	11.31		
				25	0			11.8	11.47		
			56715 High	3697.5	QPSK			1	0	11.8	11.66
								1	12	11.8	11.56
								1	24	11.8	11.58
	12	0						11.8	11.66		
	12	6						11.8	11.60		
	12	11						11.8	11.50		
	25	0						11.8	11.49		
	16QAM	1			0			11.8	11.42		
		1			12			11.8	11.34		
		1			24			11.8	11.39		
		12			0			11.8	11.42		
		12			6			11.8	11.62		
		12			11			11.8	11.63		
		25			0			11.8	11.70		
	64QAM	1			0			11.8	11.32		
		1			12			11.8	11.26		
		1			24			11.8	11.27		
		12			0			11.8	11.50		
		12			6			11.8	11.58		
		12			11			11.8	11.49		
		25			0			11.8	11.47		

LTE Band 66 Measured Results(Full)

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)	
20	132072	1720	QPSK	1	0	0	0	24.0	22.92	
				1	49	0	0	24.0	22.79	
				1	99	0	0	24.0	22.86	
				50	0	1	1	23.0	21.85	
				50	24	1	1	23.0	21.84	
				50	49	1	1	23.0	21.89	
			100	0	1	1	23.0	21.84		
			16QAM	1	0	1	1	23.0	22.34	
				1	49	1	1	23.0	22.31	
				1	99	1	1	23.0	22.33	
				50	0	2	2	22.0	20.89	
				50	24	2	2	22.0	20.82	
				50	49	2	2	22.0	20.90	
			64QAM	100	0	2	2	22.0	20.83	
				1	0	2	2	22.0	21.20	
				1	49	2	2	22.0	21.10	
				1	99	2	2	22.0	21.19	
				50	0	3	3	21.0	19.91	
	50	24		3	3	21.0	19.86			
	132322	1745	1745	QPSK	50	49	3	3	21.0	19.92
					100	0	3	3	21.0	19.85
					1	0	0	0	24.0	23.02
					1	49	0	0	24.0	22.85
					1	99	0	0	24.0	22.84
					50	0	1	1	23.0	21.86
				16QAM	50	24	1	1	23.0	21.79
					50	49	1	1	23.0	21.76
					100	0	1	1	23.0	21.86
					1	0	1	1	23.0	22.33
					1	49	1	1	23.0	22.21
1					99	1	1	23.0	22.20	
64QAM	50	0	2	2	22.0	20.85				
	50	24	2	2	22.0	20.81				
	50	49	2	2	22.0	20.78				
	100	0	2	2	22.0	20.81				
	1	0	2	2	22.0	21.03				
	1	49	2	2	22.0	20.86				
132572	1770	1770	QPSK	1	99	2	2	22.0	20.82	
				50	0	3	3	21.0	19.93	
				50	24	3	3	21.0	19.86	
				50	49	3	3	21.0	19.83	
				100	0	3	3	21.0	19.87	
				1	0	0	0	24.0	22.87	
			16QAM	1	49	0	0	24.0	22.69	
				1	99	0	0	24.0	22.56	
				50	0	1	1	23.0	21.83	
				50	24	1	1	23.0	21.79	
				50	49	1	1	23.0	21.70	
				100	0	1	1	23.0	21.77	
64QAM	1	0	1	1	23.0	22.14				
	1	49	1	1	23.0	21.96				
	1	99	1	1	23.0	21.82				
	50	0	2	2	22.0	20.87				
	50	24	2	2	22.0	20.80				
	50	49	2	2	22.0	20.74				
64QAM	100	0	2	2	22.0	20.75				
	1	0	2	2	22.0	20.76				
	1	49	2	2	22.0	20.59				
	1	99	2	2	22.0	20.49				
	50	0	3	3	21.0	19.79				
	50	24	3	3	21.0	19.76				
50	49	3	3	21.0	19.69					
100	0	3	3	21.0	19.76					

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
15	132047	1717.5	QPSK	1	0	0	0	24.0	22.95			
				1	37	0	0	24.0	22.81			
				1	74	0	0	24.0	22.92			
				36	0	1	1	23.0	21.82			
				36	19	1	1	23.0	21.83			
				36	39	1	1	23.0	21.76			
			75	0	1	1	23.0	21.78				
			16QAM	1	0	1	1	23.0	22.08			
				1	37	1	1	23.0	21.94			
				1	74	1	1	23.0	22.05			
				36	0	2	2	22.0	20.89			
				36	19	2	2	22.0	20.83			
				36	39	2	2	22.0	20.77			
			64QAM	75	0	2	2	22.0	20.73			
				1	0	2	2	22.0	21.41			
				1	37	2	2	22.0	21.35			
				1	74	2	2	22.0	21.37			
				36	0	3	3	21.0	19.88			
				36	19	3	3	21.0	19.82			
			132322	1745	1745	QPSK	36	39	3	3	21.0	19.81
							75	0	3	3	21.0	19.77
							1	0	0	0	24.0	22.89
							1	37	0	0	24.0	22.75
							1	74	0	0	24.0	22.74
	36	0					1	1	23.0	21.82		
	16QAM	36				19	1	1	23.0	21.82		
		36				39	1	1	23.0	21.76		
		75				0	1	1	23.0	21.82		
		1				0	1	1	23.0	22.15		
		1				37	1	1	23.0	22.08		
		1				74	1	1	23.0	22.06		
	64QAM	36	0	2	2	22.0	20.88					
		36	19	2	2	22.0	20.86					
		36	39	2	2	22.0	20.82					
		75	0	2	2	22.0	20.78					
		1	0	2	2	22.0	21.19					
1		37	2	2	22.0	21.02						
132597	1772.5	1772.5	QPSK	1	74	2	2	22.0	21.06			
				36	0	3	3	21.0	19.87			
				36	19	3	3	21.0	19.85			
				36	39	3	3	21.0	19.81			
				75	0	3	3	21.0	19.83			
				1	0	0	0	24.0	22.91			
			16QAM	1	37	0	0	24.0	22.74			
				1	74	0	0	24.0	22.68			
				36	0	1	1	23.0	21.81			
				36	19	1	1	23.0	21.75			
				36	39	1	1	23.0	21.72			
				75	0	1	1	23.0	21.77			
			64QAM	1	0	1	1	23.0	22.08			
				1	37	1	1	23.0	21.92			
				1	74	1	1	23.0	21.81			
				36	0	2	2	22.0	20.84			
				36	19	2	2	22.0	20.82			
				36	39	2	2	22.0	20.78			
1772.5	1772.5	1772.5	QPSK	75	0	2	2	22.0	20.73			
				1	0	2	2	22.0	21.33			
				1	37	2	2	22.0	21.35			
				1	74	2	2	22.0	21.24			
				36	0	3	3	21.0	19.88			
				36	19	3	3	21.0	19.84			
			16QAM	36	39	3	3	21.0	19.78			
				75	0	3	3	21.0	19.78			

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
10	132022	1715	QPSK	1	0	0	0	24.0	22.81			
				1	24	0	0	24.0	22.75			
				1	49	0	0	24.0	22.76			
				25	0	1	1	23.0	21.78			
				25	12	1	1	23.0	21.80			
				25	24	1	1	23.0	21.77			
			16QAM	50	0	1	1	23.0	21.75			
				1	0	1	1	23.0	22.13			
				1	24	1	1	23.0	22.05			
				1	49	1	1	23.0	22.02			
				25	0	2	2	22.0	20.79			
				25	12	2	2	22.0	20.79			
			64QAM	25	24	2	2	22.0	20.77			
				50	0	2	2	22.0	20.76			
				1	0	2	2	22.0	21.15			
				1	24	2	2	22.0	21.08			
				1	49	2	2	22.0	21.15			
				25	0	3	3	21.0	19.80			
			132322	1745	1745	QPSK	25	12	3	3	21.0	19.77
							25	24	3	3	21.0	19.76
							50	0	3	3	21.0	19.80
							1	0	0	0	24.0	22.79
							1	24	0	0	24.0	22.71
							1	49	0	0	24.0	22.70
	16QAM	25				0	1	1	23.0	21.81		
		25				12	1	1	23.0	21.78		
		25				24	1	1	23.0	21.80		
		50				0	1	1	23.0	21.80		
		1				0	1	1	23.0	22.10		
		1				24	1	1	23.0	22.03		
	64QAM	1	49	1	1	23.0	22.04					
		25	0	2	2	22.0	20.74					
		25	12	2	2	22.0	20.73					
		25	24	2	2	22.0	20.70					
		50	0	2	2	22.0	20.76					
		1	0	2	2	22.0	21.10					
132622	1775	1775	QPSK	1	24	2	2	22.0	21.05			
				1	49	2	2	22.0	21.04			
				25	0	3	3	21.0	19.80			
				25	12	3	3	21.0	19.79			
				25	24	3	3	21.0	19.75			
				50	0	3	3	21.0	19.76			
			16QAM	1	0	0	0	24.0	22.72			
				1	24	0	0	24.0	22.64			
				1	49	0	0	24.0	22.54			
				25	0	1	1	23.0	21.74			
				25	12	1	1	23.0	21.77			
				25	24	1	1	23.0	21.72			
			64QAM	50	0	1	1	23.0	21.74			
				1	0	1	1	23.0	21.97			
				1	24	1	1	23.0	21.88			
				1	49	1	1	23.0	21.77			
				25	0	2	2	22.0	20.82			
				25	12	2	2	22.0	20.75			
64QAM	25	24	2	2	22.0	20.76						
	50	0	2	2	22.0	20.72						
	1	0	2	2	22.0	21.22						
	1	24	2	2	22.0	21.13						
	1	49	2	2	22.0	20.99						
	25	0	3	3	21.0	19.80						
64QAM	25	12	3	3	21.0	19.77						
	25	24	3	3	21.0	19.76						
	50	0	3	3	21.0	19.81						

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
5	131997	1712.5	QPSK	1	0	0	0	24.0	22.75			
				1	12	0	0	24.0	22.68			
				1	24	0	0	24.0	22.72			
				12	0	1	1	23.0	21.76			
				12	6	1	1	23.0	21.78			
				12	11	1	1	23.0	21.77			
			25	0	1	1	23.0	21.77				
			16QAM	1	0	1	1	23.0	21.99			
				1	12	1	1	23.0	21.97			
				1	24	1	1	23.0	21.96			
				12	0	2	2	22.0	20.80			
				12	6	2	2	22.0	20.81			
				12	11	2	2	22.0	20.79			
			25	0	2	2	22.0	20.76				
			64QAM	1	0	2	2	22.0	21.00			
				1	12	2	2	22.0	20.98			
				1	24	2	2	22.0	20.92			
				12	0	3	3	21.0	19.84			
				12	6	3	3	21.0	19.85			
				12	11	3	3	21.0	19.80			
			25	0	3	3	21.0	19.79				
			132322	1745	1745	QPSK	1	0	0	0	24.0	22.88
							1	12	0	0	24.0	22.81
							1	24	0	0	24.0	22.83
	12	0					1	1	23.0	21.78		
	12	6					1	1	23.0	21.82		
	12	11					1	1	23.0	21.77		
	25	0				1	1	23.0	21.80			
	16QAM	1				0	1	1	23.0	22.18		
		1				12	1	1	23.0	22.13		
		1				24	1	1	23.0	22.15		
		12				0	2	2	22.0	20.84		
		12				6	2	2	22.0	20.88		
		12				11	2	2	22.0	20.83		
	25	0				2	2	22.0	20.80			
	64QAM	1				0	2	2	22.0	21.29		
1		12				2	2	22.0	21.25			
1		24				2	2	22.0	21.24			
12		0				3	3	21.0	19.70			
12		6				3	3	21.0	19.72			
12		11				3	3	21.0	19.69			
25	0	3				3	21.0	19.82				
132647	1777.5	1777.5				QPSK	1	0	0	0	24.0	22.75
							1	12	0	0	24.0	22.57
							1	24	0	0	24.0	22.61
			12	0	1		1	23.0	21.74			
			12	6	1		1	23.0	21.67			
			12	11	1		1	23.0	21.63			
			25	0	1	1	23.0	21.64				
			16QAM	1	0	1	1	23.0	22.00			
				1	12	1	1	23.0	21.89			
				1	24	1	1	23.0	21.86			
				12	0	2	2	22.0	20.81			
				12	6	2	2	22.0	20.70			
				12	11	2	2	22.0	20.72			
			25	0	2	2	22.0	20.61				
			64QAM	1	0	2	2	22.0	21.02			
				1	12	2	2	22.0	20.89			
				1	24	2	2	22.0	20.86			
				12	0	3	3	21.0	19.80			
				12	6	3	3	21.0	19.73			
				12	11	3	3	21.0	19.69			
			25	0	3	3	21.0	19.72				

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
3	132047	1717.5	QPSK	1	0	0	0	24.0	22.62			
				1	7	0	0	24.0	22.70			
				1	14	0	0	24.0	22.63			
				8	0	1	1	23.0	21.76			
				8	4	1	1	23.0	21.79			
				8	7	1	1	23.0	21.75			
			15	0	1	1	23.0	21.70				
			16QAM	1	0	1	1	23.0	21.83			
				1	7	1	1	23.0	21.94			
				1	14	1	1	23.0	21.81			
				8	0	2	2	22.0	20.67			
				8	4	2	2	22.0	20.68			
				8	7	2	2	22.0	20.67			
			64QAM	15	0	2	2	22.0	20.71			
				1	0	2	2	22.0	21.17			
				1	7	2	2	22.0	21.20			
				1	14	2	2	22.0	21.08			
				8	0	3	3	21.0	19.85			
				8	4	3	3	21.0	19.83			
			132322	1745	1745	QPSK	8	7	3	3	21.0	19.81
							15	0	3	3	21.0	19.78
							1	0	0	0	24.0	22.69
							1	7	0	0	24.0	22.80
							1	14	0	0	24.0	22.66
							8	0	1	1	23.0	21.77
						16QAM	8	4	1	1	23.0	21.76
							8	7	1	1	23.0	21.76
							15	0	1	1	23.0	21.77
							1	0	1	1	23.0	22.03
							1	7	1	1	23.0	22.11
	1	14					1	1	23.0	21.92		
	8	0					2	2	22.0	20.83		
	8	4					2	2	22.0	20.83		
	8	7					2	2	22.0	20.82		
	64QAM	15	0	2	2	22.0	20.69					
		1	0	2	2	22.0	21.02					
		1	7	2	2	22.0	21.15					
		1	14	2	2	22.0	21.01					
		8	0	3	3	21.0	19.71					
		8	4	3	3	21.0	19.75					
	132657	1778.5	1778.5	QPSK	8	7	3	3	21.0	19.70		
					15	0	3	3	21.0	19.66		
					1	0	0	0	24.0	22.55		
					1	7	0	0	24.0	22.64		
					1	14	0	0	24.0	22.54		
8					0	1	1	23.0	21.65			
16QAM				8	4	1	1	23.0	21.64			
				8	7	1	1	23.0	21.60			
				15	0	1	1	23.0	21.59			
				1	0	1	1	23.0	21.73			
				1	7	1	1	23.0	21.87			
				1	14	1	1	23.0	21.72			
				8	0	2	2	22.0	20.55			
				8	4	2	2	22.0	20.56			
				8	7	2	2	22.0	20.54			
64QAM	15	0	2	2	22.0	20.58						
	1	0	2	2	22.0	20.99						
	1	7	2	2	22.0	21.13						
	1	14	2	2	22.0	20.94						
	8	0	3	3	21.0	19.69						
	8	4	3	3	21.0	19.74						
				8	7	3	3	21.0	19.72			
				15	0	3	3	21.0	19.66			

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
1.4	132047	1717.5	QPSK	1	0	0	0	24.0	22.62				
				1	2	0	0	24.0	22.70				
				1	5	0	0	24.0	22.61				
				3	0	0	0	24.0	22.72				
				3	1	0	0	24.0	22.74				
				3	3	0	0	24.0	22.70				
			16QAM	6	0	1	1	23.0	21.66				
				1	0	1	1	23.0	21.70				
				1	2	1	1	23.0	21.81				
				1	5	1	1	23.0	21.71				
				3	0	1	1	23.0	21.62				
				3	1	1	1	23.0	21.66				
			64QAM	3	3	1	1	23.0	21.59				
				6	0	2	2	22.0	20.71				
				1	0	2	2	22.0	21.03				
				1	2	2	2	22.0	21.11				
				1	5	2	2	22.0	20.96				
				3	0	2	2	22.0	20.82				
			132322	1745	1745	QPSK	3	1	2	2	22.0	20.83	
							3	3	2	2	22.0	20.80	
							6	0	3	3	21.0	19.69	
	1	0					0	0	24.0	22.62			
	1	2					0	0	24.0	22.67			
	1	5					0	0	24.0	22.57			
	16QAM	3				0	0	0	24.0	22.75			
		3				1	0	0	24.0	22.78			
		3				3	0	0	24.0	22.71			
		6				0	1	1	23.0	21.70			
		1				0	1	1	23.0	21.90			
		1				2	1	1	23.0	21.97			
	64QAM	1				5	1	1	23.0	21.90			
		3				0	1	1	23.0	21.82			
		3				1	1	1	23.0	21.88			
		3				3	1	1	23.0	21.79			
		6				0	2	2	22.0	20.70			
		1				0	2	2	22.0	20.91			
	132657	1778.5				1778.5	QPSK	1	2	2	2	22.0	21.02
								1	5	2	2	22.0	20.89
								3	0	2	2	22.0	20.64
			3	1	2			2	22.0	20.68			
			3	3	2			2	22.0	20.65			
			6	0	3			3	21.0	19.57			
16QAM			1	0	0		0	24.0	22.54				
			1	2	0		0	24.0	22.61				
			1	5	0		0	24.0	22.53				
			3	0	0		0	24.0	22.55				
			3	1	0		0	24.0	22.63				
			3	3	0		0	24.0	22.58				
64QAM			6	0	1		1	23.0	21.55				
			1	0	1		1	23.0	21.60				
			1	2	1		1	23.0	21.71				
			1	5	1		1	23.0	21.53				
			3	0	1		1	23.0	21.51				
			3	1	1		1	23.0	21.52				
					QPSK		3	3	1	1	23.0	21.49	
							6	0	2	2	22.0	20.58	
							1	0	2	2	22.0	20.87	
	16QAM	1			2	2	2	22.0	20.98				
		1			5	2	2	22.0	20.87				
		3			0	2	2	22.0	20.68				
		3			1	2	2	22.0	20.71				
		3			3	2	2	22.0	20.70				
		6			0	3	3	21.0	19.55				
		6			0	3	3	21.0	19.55				

LTE Band 66 Measured Results (Reduction)

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
20	132072	1720	QPSK	1	0	MPR is disabled when power reduction is enabled		18.8	18.09		
				1	49			18.8	17.91		
				1	99			18.8	17.98		
				50	0			18.8	18.02		
				50	24			18.8	17.96		
				50	49			18.8	18.07		
			100	0	18.8			17.96			
			16QAM	1	0			18.8	18.40		
				1	49			18.8	18.22		
				1	99			18.8	18.22		
				50	0			18.8	18.01		
				50	24			18.8	17.96		
				50	49			18.8	18.01		
			64QAM	100	0			18.8	17.98		
				1	0			18.8	18.26		
				1	49			18.8	18.06		
				1	99			18.8	18.20		
				50	0			18.8	18.05		
				50	24			18.8	17.97		
			132322	1745	QPSK			50	49	18.8	18.06
								50	24	18.8	18.00
								50	49	18.8	17.95
								100	0	18.8	18.02
								1	0	18.8	18.40
	1	49						18.8	18.27		
	16QAM	1			99			18.8	18.29		
		50			0			18.8	18.07		
		50			24			18.8	18.01		
		50			49			18.8	17.97		
		100			0			18.8	18.04		
		64QAM			1			0	18.8	18.29	
	1			49	18.8			18.12			
	1			99	18.8			18.10			
	50			0	18.8			18.08			
	50			24	18.8			18.04			
	50			49	18.8			17.99			
	132572	1770		QPSK	100			0	18.8	17.99	
					1			0	18.8	18.07	
					1			49	18.8	17.92	
					1			99	18.8	17.80	
					50			0	18.8	17.98	
					50			24	18.8	17.96	
		16QAM		50	49			18.8	17.89		
			100	0	18.8			17.94			
			1	0	18.8			18.36			
			1	49	18.8			18.23			
			1	99	18.8			18.13			
			50	0	18.8			18.01			
64QAM	50	24	18.8	17.98							
	50	49	18.8	17.90							
	100	0	18.8	17.95							
	1	0	18.8	18.24							
	1	49	18.8	18.06							
	1	99	18.8	17.96							
	50	0	18.8	18.04							
	50	24	18.8	17.99							
	50	49	18.8	17.91							
	100	0	18.8	17.92							

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)		
15	132047	1717.5	QPSK	1	0	MPR is disabled when power reduction is enabled		18.8	18.09		
				1	37			18.8	17.91		
				1	74			18.8	18.03		
				36	0			18.8	18.00		
				36	19			18.8	17.94		
				36	39			18.8	17.93		
				75	0			18.8	17.95		
			16QAM	1	0			18.8	18.29		
				1	37			18.8	18.15		
				1	74			18.8	18.24		
				36	0			18.8	17.98		
				36	19			18.8	17.99		
				36	39			18.8	17.94		
				75	0			18.8	17.96		
			64QAM	1	0			18.8	18.40		
				1	37			18.8	18.24		
				1	74			18.8	18.37		
				36	0			18.8	17.97		
				36	19			18.8	17.93		
				36	39			18.8	17.91		
				75	0			18.8	17.97		
			132322	1745	QPSK			1	0	18.8	18.12
								1	37	18.8	17.94
								1	74	18.8	17.98
	36	0						18.8	18.05		
	36	19						18.8	18.03		
	36	39						18.8	17.95		
	75	0						18.8	17.96		
	16QAM	1			0			18.8	18.36		
		1			37			18.8	18.20		
		1			74			18.8	18.18		
		36			0			18.8	18.03		
		36			19			18.8	18.02		
		36			39			18.8	17.97		
		75			0			18.8	17.97		
	64QAM	1			0			18.8	18.41		
		1			37			18.8	18.27		
		1			74			18.8	18.29		
		36			0			18.8	17.98		
		36			19			18.8	17.99		
		36			39			18.8	17.91		
		75			0			18.8	17.95		
	132597	1772.5			QPSK			1	0	18.8	18.12
								1	37	18.8	17.91
								1	74	18.8	17.84
			36	0				18.8	18.04		
			36	19				18.8	17.98		
			36	39				18.8	17.94		
75			0	18.8		17.93					
16QAM			1	0	18.8	18.31					
			1	37	18.8	18.18					
			1	74	18.8	18.08					
			36	0	18.8	18.01					
			36	19	18.8	17.98					
			36	39	18.8	17.93					
			75	0	18.8	17.94					
64QAM			1	0	18.8	18.39					
			1	37	18.8	18.21					
			1	74	18.8	18.17					
			36	0	18.8	17.94					
			36	19	18.8	17.92					
			36	39	18.8	17.88					
			75	0	18.8	17.96					

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
10	132022	1715	QPSK	1	0	MPR is disabled when power reduction is enabled		18.8	17.98
				1	24			18.8	17.92
				1	49			18.8	17.88
				25	0			18.8	17.90
				25	12			18.8	17.88
				25	24			18.8	17.86
				50	0			18.8	17.92
			16QAM	1	0			18.8	18.21
				1	24			18.8	18.14
				1	49			18.8	18.11
				25	0			18.8	17.96
				25	12			18.8	17.92
				25	24			18.8	17.90
				50	0			18.8	17.90
			64QAM	1	0			18.8	18.29
				1	24			18.8	18.26
				1	49			18.8	18.23
				25	0			18.8	17.92
				25	12			18.8	17.92
				25	24			18.8	17.89
				50	0			18.8	17.91
	132322	1745	QPSK	1	0			18.8	17.89
				1	24			18.8	17.80
				1	49			18.8	17.81
				25	0			18.8	17.97
				25	12			18.8	17.96
				25	24			18.8	17.93
				50	0			18.8	17.91
			16QAM	1	0			18.8	18.15
				1	24			18.8	18.09
				1	49			18.8	18.08
				25	0			18.8	17.94
				25	12			18.8	17.93
				25	24			18.8	17.93
				50	0			18.8	17.93
			64QAM	1	0			18.8	18.36
				1	24			18.8	18.30
				1	49			18.8	18.27
				25	0			18.8	17.95
				25	12			18.8	17.93
				25	24			18.8	17.90
				50	0			18.8	17.96
	132622	1775	QPSK	1	0			18.8	17.95
				1	24			18.8	17.84
				1	49			18.8	17.75
25				0	18.8	17.93			
25				12	18.8	17.89			
25				24	18.8	17.90			
50				0	18.8	17.94			
16QAM			1	0	18.8	18.25			
			1	24	18.8	18.17			
			1	49	18.8	18.04			
			25	0	18.8	17.83			
			25	12	18.8	17.83			
			25	24	18.8	17.83			
			50	0	18.8	17.89			
64QAM			1	0	18.8	18.25			
			1	24	18.8	18.24			
			1	49	18.8	18.09			
			25	0	18.8	17.91			
			25	12	18.8	17.91			
			25	24	18.8	17.88			
			50	0	18.8	17.90			

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)
5	131997	1712.5	QPSK	1	0	MPR is disabled when power reduction is enabled		18.8	17.98
				1	12			18.8	17.96
				1	24			18.8	17.95
				12	0			18.8	17.92
				12	6			18.8	17.93
				12	11			18.8	17.88
				25	0			18.8	17.92
			16QAM	1	0			18.8	18.27
				1	12			18.8	18.20
				1	24			18.8	18.21
				12	0			18.8	17.97
				12	6			18.8	18.00
				12	11			18.8	17.94
				25	0			18.8	17.91
			64QAM	1	0			18.8	18.37
				1	12			18.8	18.27
				1	24			18.8	18.34
				12	0			18.8	17.86
				12	6			18.8	17.86
				12	11			18.8	17.81
				25	0			18.8	17.91
	132322	1745	QPSK	1	0			18.8	17.94
				1	12			18.8	17.88
				1	24			18.8	17.90
				12	0			18.8	17.99
				12	6			18.8	18.00
				12	11			18.8	17.96
				25	0			18.8	17.91
			16QAM	1	0			18.8	18.17
				1	12			18.8	18.13
				1	24			18.8	18.14
				12	0			18.8	17.98
				12	6			18.8	17.98
				12	11			18.8	17.95
				25	0			18.8	17.93
			64QAM	1	0			18.8	18.18
				1	12			18.8	18.14
				1	24			18.8	18.13
				12	0			18.8	18.00
				12	6			18.8	18.00
				12	11			18.8	17.96
				25	0			18.8	17.97
	132647	1777.5	QPSK	1	0			18.8	17.91
				1	12			18.8	17.75
				1	24			18.8	17.80
12				0	18.8	17.94			
12				6	18.8	17.80			
12				11	18.8	17.79			
25				0	18.8	17.77			
16QAM			1	0	18.8	18.16			
			1	12	18.8	18.03			
			1	24	18.8	18.03			
			12	0	18.8	17.94			
			12	6	18.8	17.85			
			12	11	18.8	17.84			
			25	0	18.8	17.77			
64QAM			1	0	18.8	18.20			
			1	12	18.8	18.06			
			1	24	18.8	18.03			
			12	0	18.8	17.96			
			12	6	18.8	17.87			
			12	11	18.8	17.84			
			25	0	18.8	17.86			

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)				
3	132047	1717.5	QPSK	1	0	MPR is disabled when power reduction is enabled		18.8	17.93				
				1	7			18.8	18.02				
				1	14			18.8	17.92				
				8	0			18.8	17.94				
				8	4			18.8	18.00				
				8	7			18.8	17.93				
				15	0			18.8	17.94				
			16QAM	1	0			18.8	18.15				
				1	7			18.8	18.24				
				1	14			18.8	18.15				
				8	0			18.8	17.96				
				8	4			18.8	17.98				
				8	7			18.8	17.96				
				15	0			18.8	17.96				
			64QAM	1	0			18.8	18.23				
				1	7			18.8	18.40				
				1	14			18.8	18.23				
				8	0			18.8	17.93				
				8	4			18.8	17.92				
				8	7			18.8	17.92				
				15	0			18.8	17.95				
			132322	1745	1745			QPSK	1	0	18.8	17.83	
									1	7	18.8	17.92	
									1	14	18.8	17.84	
	8	0							18.8	17.98			
	8	4							18.8	17.94			
	8	7							18.8	17.93			
	15	0							18.8	17.95			
	16QAM	1						0	18.8	18.04			
		1						7	18.8	18.17			
		1						14	18.8	18.03			
		8						0	18.8	17.84			
		8						4	18.8	17.87			
		8						7	18.8	17.84			
		15						0	18.8	17.90			
	64QAM	1						0	18.8	18.31			
		1						7	18.8	18.42			
		1						14	18.8	18.22			
		8						0	18.8	17.98			
		8						4	18.8	18.00			
		8						7	18.8	18.00			
		15						0	18.8	17.94			
	132657	1778.5						1778.5	QPSK	1	0	18.8	17.72
										1	7	18.8	17.80
										1	14	18.8	17.66
			8	0	18.8					17.83			
			8	4	18.8					17.86			
			8	7	18.8					17.82			
15			0	18.8	17.81								
16QAM			1	0	18.8	17.94							
			1	7	18.8	18.06							
			1	14	18.8	17.94							
			8	0	18.8	17.73							
			8	4	18.8	17.72							
			8	7	18.8	17.72							
			15	0	18.8	17.79							
64QAM			1	0	18.8	18.21							
			1	7	18.8	18.30							
			1	14	18.8	18.15							
			8	0	18.8	17.87							
			8	4	18.8	17.91							
			8	7	18.8	17.85							
			15	0	18.8	17.84							

Band : 66

BW (MHz)	UL Ch #	Freq. (MHz)	Modulation	UL RB Allocation	UL RB Start	Target MPR	Meas. MPR	Tune-up Limit (dBm)	Meas. Pwr Avg (dBm)			
1.4	132047	1717.5	QPSK	1	0			18.8	17.81			
				1	2			18.8	17.89			
				1	5			18.8	17.79			
				3	0			18.8	17.84			
				3	1			18.8	17.86			
				3	3			18.8	17.82			
			6	0	18.8			17.77				
			16QAM	1	0			18.8	17.83			
				1	2			18.8	17.94			
				1	5			18.8	17.83			
				3	0			18.8	17.91			
				3	1			18.8	17.95			
				3	3			18.8	17.92			
			64QAM	6	0			18.8	17.87			
				1	0			18.8	18.16			
				1	2			18.8	18.19			
				1	5			18.8	18.19			
				3	0			18.8	17.96			
				3	1			18.8	18.04			
			132322	1745	1745			QPSK	3	3	18.8	17.95
									3	3	18.8	17.95
									6	0	18.8	17.83
									1	0	18.8	17.78
									1	2	18.8	17.83
	1	5							18.8	17.75		
	16QAM	3						0	18.8	17.81		
		3						1	18.8	17.85		
		3						3	18.8	17.80		
		6						0	18.8	17.83		
		1						0	18.8	17.95		
		1						2	18.8	18.07		
	64QAM	1	5	18.8	17.92							
		3	0	18.8	17.99							
		3	1	18.8	18.02							
		3	3	18.8	17.95							
		6	0	18.8	17.76							
		1	0	18.8	18.19							
		1	2	18.8	18.30							
		1	5	18.8	18.21							
		3	0	18.8	17.85							
		3	1	18.8	17.91							
		3	3	18.8	17.83							
		6	0	18.8	17.95							
	132657	1778.5	1778.5	QPSK	1			0	18.8	17.63		
					1			2	18.8	17.69		
					1			5	18.8	17.62		
					3			0	18.8	17.67		
					3			1	18.8	17.70		
3					3	18.8	17.66					
6				0	18.8	17.69						
16QAM				1	0	18.8	17.83					
				1	2	18.8	17.93					
				1	5	18.8	17.82					
				3	0	18.8	17.82					
				3	1	18.8	17.87					
				3	3	18.8	17.81					
64QAM				6	0	18.8	17.68					
				1	0	18.8	18.02					
				1	2	18.8	18.17					
				1	5	18.8	18.07					
				3	0	18.8	17.73					
				3	1	18.8	17.75					
				3	3	18.8	17.70					
				6	0	18.8	17.70					
				6	0	18.8	17.85					

MPR is disabled when power reduction is enabled

9.3. LTE Carrier Aggregation

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

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

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

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

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

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

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

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

Where M_A is defined as follows

$M_A =$	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	; $0.25 \leq A \leq 0.4$
	3.83 – 0.83A	; $0.4 \leq A \leq 1$

and M_{IM5} is defined as follows

$M_{IM5} =$	4.5	; $\Delta_{IM5} < 1.5 * \text{BW}_{\text{Channel_CA}}$
	6.0	; $1.5 * \text{BW}_{\text{Channel_CA}} \leq \Delta_{IM5} < \text{BW}_{\text{Channel_CA}}/2 + \Delta f_{\text{ooB}}$
M_A		; $\Delta_{IM5} \geq \text{BW}_{\text{Channel_CA}}/2 + \Delta f_{\text{ooB}}$

Where

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

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

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

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 $W_{\text{GAP}} \leq 42.2$ MHz as follows

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

Where M_N is defined as follows

$M_N =$	-0.125N + 18.25	; $2 \leq N \leq 50$
	-0.0333 N + 13.67	; $50 < N \leq 200$

Where $N = N_{\text{RB_alloc}}$ 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.

9.4. Uplink maximum output power measurement for the supported combinations with downlink carrier aggregation

Uplink maximum output power is measured with Downlink CA active, only for the channel with highest measured maximum output power when Downlink CA is inactive, to confirm Uplink Power difference between Downlink CA inactive and Downlink CA active

9.4.1. Power measurement combination for DL CA

Index	2CC	Completely Covered by Measurement Superset
2CC#1	CA 2C	No
2CC#2	CA 7B	No
2CC#3	CA 7C	No
2CC#4	CA 41C	3CC#1
2CC#5	CA 66B	3CC#2, 3CC#11, 3CC#18, 3CC#19
2CC#6	CA 66C	3CC#3, 3CC#12, 3CC#16, 3CC#20
2CC#7	CA 5B	No
2CC#8	CA 2A-2A	3CC#4, 3CC#5, 3CC#6, 3CC#21
2CC#9	CA 4A-4A	3CC#7, 3CC#8, 3CC#9
2CC#10	CA 7A-7A	3CC#10, 3CC#14
2CC#11	CA 66A-66A	3CC#13, 3CC#15, 3CC#17, 3CC#22
2CC#12	CA 2A-4A	3CC#23, 3CC#24, 3CC#25, 3CC#26, 3CC#27
2CC#13	CA 2A-5A	3CC#4, 3CC#30
2CC#14	CA 2A-7A	3CC#10, 3CC#28
2CC#15	CA 2A-12A	3CC#5
2CC#16	CA 2A-13A	3CC#6, 3CC#31
2CC#17	CA 2A-29A	3CC#27
2CC#18	CA 2A-46A	No
2CC#19	CA 4A-5A	3CC#7, 3CC#23
2CC#20	CA 4A-7A	3CC#14, 3CC#24, 3CC#29
2CC#21	CA 4A-12A	3CC#8, 3CC#25
2CC#22	CA 4A-13A	3CC#9, 3CC#26
2CC#23	CA 4A-29A	3CC#27
2CC#24	CA 4A-46A	No
2CC#25	CA 7A-12A	3CC#28, 3CC#29
2CC#26	CA 2A-66A	3CC#13
2CC#27	CA 5A-66A	3CC#15, 3CC#50
2CC#28	CA 12A-66A	No
2CC#29	CA 13A-46A	No
2CC#30	CA 13A-66A	3CC#17, 3CC#31
2CC#31	CA 29A-66A	No
2CC#32	CA 5A-7A	No
2CC#33	CA 2A-14A	3CC#21, 3CC#32
2CC#34	CA 14A-66A	3CC#22, 3CC#32
2CC#35	CA 48C	3CC#33, 3CC#34
2CC#36	CA 48A 48A	No

Index	3CC	Completely Covered by Measurement Superset
3CC#1	CA 41D	No
3CC#2	CA 66A-66B	No
3CC#3	CA 66A-66C	No
3CC#4	CA 2A-2A-5A	No
3CC#5	CA 2A-2A-12A	No
3CC#6	CA 2A-2A-13A	No
3CC#7	CA 4A-4A-5A	No
3CC#8	CA 4A-4A-12A	No
3CC#9	CA 4A-4A-13A	No
3CC#10	CA 2A-7A-7A	No
3CC#11	CA 2A-66B	No
3CC#12	CA 2A-66C	No
3CC#13	CA 2A-66A-66A	No
3CC#14	CA 4A-7A-7A	No
3CC#15	CA 5A-66A-66A	No
3CC#16	CA 5A-66C	No
3CC#17	CA 13A-66A-66A	No
3CC#18	CA 13A-66B	No
3CC#19	CA 5A 66B	No
3CC#20	CA 13A 66C	No
3CC#21	CA 2A-2A-14A	No
3CC#22	CA 14A-66A-66A	No
3CC#23	CA 2A-4A-5A	No
3CC#24	CA 2A-4A-7A	No
3CC#25	CA 2A-4A-12A	No
3CC#26	CA 2A-4A-13A	No
3CC#27	CA 2A-4A-29A	No
3CC#28	CA 2A-7A-12A	No
3CC#29	CA 4A-7A-12A	No
3CC#30	CA 2A-5A-66A	No
3CC#31	CA 2A-13A-66A	No
3CC#32	CA 2A-14A-66A	No
3CC#33	CA 48D	No
3CC#34	CA 48A 48C	No

<Intra-band Contiguous CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
	PCC							
CA_2C	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	2	20	19100	1900	1-0		QPSK	
	SCC1						19.8	
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	-	-	-	-	-	-		-
	Downlink							
	PCC *2							
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	2	20	1100	1980	100-0			QPSK
	SCC1 *4							
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
2	20	902	1960.2	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.87	22.84	-0.03

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
	PCC							
CA_7B	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	7	15	21375	2507.5	1-0		QPSK	
	SCC1						9.3	
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	-	-	-	-	-	-		-
	Downlink							
	PCC *2							
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	7	15	3375	2627.5	75-0			QPSK
	SCC1 *4							
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
7	5	2929	2637.9	25-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
21.88	22.00	0.12

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing. The nominal channel spacing is determined by $[BW1+BW2-0.1] \cdot [BW1-BW2] / 2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Enable when downlink CA is active
 *5 Set to the supported maximum bandwidth
 *6 Set to Maximum RB
 *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *8 Uplink Power difference between downlink CA inactive and downlink CA active

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
	PCC							
CA_7C	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	-	
	7	20	21350	2560	1-0			QPSK
	SCC1							
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	-	-	-	-	-	-		-
	Downlink							
	PCC *2							PCC, SCC1 CH spacing [MHz] *3
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		
	7	20	3350	2680	100-0			QPSK
	SCC1 *4							19.8
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
7	20	3152	2660.2	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
21.97	22.00	0.03

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
	PCC							
CA_5B	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	-	
	5	5	20525	836.5	1-0			QPSK
	SCC1							
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	-	-	-	-	-	-		-
	Downlink							
	PCC *2							PCC, SCC1 CH spacing [MHz] *3
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		
	5	5	2525	881.5	100-0			QPSK
	SCC1 *4							7.2
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
5	10	2453	874.3	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
23.03	22.93	-0.10

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing. The nominal channel spacing is determined by $[BW1+BW2-0.1] \times [BW1-BW2] / 2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Enable when downlink CA is active
 *5 Set to the supported maximum bandwidth
 *6 Set to Maximum RB
 *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *8 Uplink Power difference between downlink CA inactive and downlink CA active

<Inter-band CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
2	15	19125	1902.5	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
2	15	1125	1982.5	100-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
46	20	50665	5537.5	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.87	-0.08

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
4	20	20175	1732.5	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
4	20	2175	2132.5	100-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
46	20	50665	5537.5	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	22.97	-0.06

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 is near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<Inter-band CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
12	5	23095	707.5	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
12	5	5095	737.5	15-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
66	20	66786	2145	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.84	22.86	0.02

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
66	20	132322	1745	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
66	20	114322	1775	100-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
12	10	5095	737.5	50-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.02	23.00	-0.02

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 is near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<Inter-band CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
13	5	23230	782	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
13	5	5230	751	25-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
46	20	50665	5537.5	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.88	22.92	0.04

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
66	20	132322	1745	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
66	20	66786	2145	75-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
29	10	9715	722.5	50-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.02	22.97	-0.05

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 is near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<Inter-band CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
5	5	20525	836.5	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
5	5	2525	881.5	25-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
7	20	3100	2655	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	23.07	0.04

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
7	20	21350	2560	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
7	20	3350	2680	100-0		QPSK
SCC1 *4						
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *5	Position	
5	5	2525	881.5	25-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
21.97	22.00	0.03

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 is near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<Inter-band CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1					
	PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
48	10	55757	3601.7	1-0		QPSK
SCC1						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
-	-	-	-	-		-
Downlink						
PCC *2						
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number	Position	
48	10	55757	3601.7	1-0		QPSK
SCC1 *4						
Band	Bandwidth *5	Channel *2	Frequency	Resource Block		Modulation
	[MHz]		[MHz]	Number *6	Position	
48	20	56640	3690	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
18.85	18.80	-0.05

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<Intra-band Contiguous 3CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3
	PCC						
CA_41D	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		41	15	41068	2637.8	1-0	
	SCC1						-
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	-	-	-	-	-	-	-
Downlink							PCC, SCC1, SCC2 CH spacing
PCC *2							
CA_41D	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
	41	15	41068	2637.8	100-0		QPSK
	SCC1 *4						17.1
Band	Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
41	20	41239	2654.9	100-0		QPSK	
	SCC2 *4						17.1
Band	Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
41	20	40897	2620.7	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.06	22.09	0.03

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing. The nominal channel spacing is determined by $[BW1+BW2-0.1] \cdot [BW1-BW2] / 2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					PCC, SCC1 CH spacing [MHz] *3		
		PCC							
CA_66A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1					17.1		
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number		Resource Block Position	Modulation
		-	-	-	-	-		-	-
	Downlink								
	PCC *2								
	Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	66786	2145	100-0		QPSK	
		SCC1					-		
Band		Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *4	Resource Block Position		Modulation	
66		15	66615	2127.9	75-0			QPSK	
SCC2									
Band	Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation			
66	5	67111	2177.5	25-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
23.02	22.93	-0.09

E-UTRA CA Configuration		Uplink *1					PCC, SCC1 CH spacing [MHz] *3		
		PCC							
CA_66A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1					19.8		
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number		Resource Block Position	Modulation
		-	-	-	-	-		-	-
	Downlink								
	PCC *2								
	Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	66786	2145	75-0		QPSK	
		SCC1					-		
Band		Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *4	Resource Block Position		Modulation	
66		20	66588	2125.2	100-0			QPSK	
SCC2									
Band	Bandwidth *5 [MHz]	Channel *6	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation			
66	20	67036	2170	100-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
23.02	22.89	-0.13

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1 \cdot |BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 The SCC2 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 *5 Set to the supported maximum bandwidth
 *6 Set to Maximum RB
 *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_2A-2A-5A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	19125	1902.5	1-0		QPSK	
		SCC1							
		-	-	-	-	-	-	-	
	Downlink								
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
2	20	700	1940	100-0		QPSK			
Inter band	SCC2 *4								
	Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	5	10	2525	881.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.95	22.88	-0.07

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band. When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-2A-5A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				5	5	20525	836.5	1-0
		SCC1						
	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-2A-5A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		5	5	2525	881.5	25-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	700	1940	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	1100	1980	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	22.92	-0.11

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_2A-2A-12A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	19125	1902.5	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		-	-	-	-	-	-	-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
		2	20	700	1940	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	12	10	5095	737.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.95	22.87	-0.08

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-2A-12A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				12	5	23095	707.5	1-0
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-2A-12A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		12	5	5095	737.5	25-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	700	1940	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	1100	1980	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.84	22.85	0.01

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_2A-2A-13A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	19125	1902.5	1-0		QPSK	
		SCC1							
		-	-	-	-	-	-	-	-
	Downlink								
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
2	20	700	1940	100-0		QPSK			
Inter band	SCC2 *4								
	Band	Bandwidth *5	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	13	10	5230	751	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.95	22.91	-0.04

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-2A-13A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				13	10	23230	782	1-0
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-2A-13A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		13	10	5230	751	50-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	700	1940	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	1100	1980	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.70	22.75	0.05

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_4A-4A-5A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	20050	1720	1-0		QPSK	
		SCC1							
		-	-	-	-	-	-	-	-
	Downlink								
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	2050	2120	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
4	20	2300	2145	100-0		QPSK			
Inter band	SCC2 *4								
	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	5	10	2525	881.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.94	22.85	-0.09

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_4A-4A-5A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				5	5	20525	836.5	1-0
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_4A-4A-5A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		5	5	2525	881.5	25-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		4	20	2050	2120	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		4	20	2300	2145	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	22.99	-0.04

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_4A-4A-12A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	20050	1720	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		-	-	-	-	-	-	-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	2050	2120	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
		4	20	2300	2145	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	12	10	5095	737.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.94	23.05	0.11

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		CA_4A-4A-12A		12	5	23095	707.5	1-0	
SCC1						Modulation			
Band	Bandwidth [MHz]			Channel	Frequency [MHz]		Resource Block Number	Resource Block Position	
-	-			-	-	-	-	-	-
Downlink						Modulation			
PCC *2									
Inter band			Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
			12	5	5095	737.5	25-0		QPSK
Intra band non contiguous	SCC1 *3						Modulation		
	Band		Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4		Resource Block Position	
	4		20	2050	2120	100-0		QPSK	
	SCC2 *3						Modulation		
	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position			
	4	20	2300	2145	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.84	22.91	0.07

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_4A-4A-13A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	20050	1720	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		-	-	-	-	-	-	-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		4	20	2050	2120	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
		4	20	2300	2145	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	13	10	5230	751	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.94	22.89	-0.05

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		CA_4A-4A-13A		13	10	23230	782	1-0	
SCC1									
Band	Bandwidth [MHz]			Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
-	-			-	-	-		-	
Downlink									
PCC *2									
Inter band			Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
			13	10	5230	751	50-0		QPSK
	SCC1 *3								
	Band		Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation	
	4		20	2050	2120	100-0		QPSK	
	SCC2 *3								
Intra band non contiguous		Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation	
		4	20	2300	2145	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.70	22.74	0.04

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-7A-7A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				2	15	19125	1902.5	1-0
		SCC1						
	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-7A-7A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		2	15	1125	1982.5	75-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		7	20	2850	2630	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		7	20	3350	2680	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.95	23.00	0.05

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-7A-7A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		7	20	21350	2560	Number	Position	QPSK
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
	-	-	-	-	Number	Position	-	
			Downlink					
			PCC *2					
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		7	20	3350	2680	Number	Position	QPSK
		SCC1 *4						
Band		Bandwidth *5	Channel *3	Frequency [MHz]	Resource Block		Modulation	
7	20	2850	2630	Number *6	Position	QPSK		
Inter band	SCC2 *4							
	Band	Bandwidth *5	Channel *7	Frequency [MHz]	Resource Block		Modulation	
	2	20	900	1960	Number *6	Position	QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
21.97	22.01	0.04

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
		PCC							
CA_2A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	19125	1902.5	1-0		QPSK	-
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	-	-	-	-	-	-	-		
			Downlink						CH spacing [MHz] *3
			PCC *2						
	Inter band		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
			2	15	1125	1982.5	75-0		QPSK
	Intra band Contiguous		SCC1 *4						9.3
Band			Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
66			15	66511	2117.5	75-0		QPSK	
SCC2 *4									
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation			
66	5	66604	2126.8	25-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.95	22.93	-0.02

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3		
		PCC								
CA_2A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	15	132047	1717.5	1-0		QPSK	-	
		SCC1								
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		-	-	-	-	-	-	-		
		Downlink								
	PCC *2						PCC, SCC1 CH spacing [MHz] *3			
	Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	15	66511	2117.5	75-0		QPSK	9.3	
		SCC1								
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
66		5	66604	2126.8	25-0		QPSK			
SCC2										
Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation				
2	20	900	1960	100-0		QPSK	-			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.95	22.93	-0.02

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
		PCC							
CA_2A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		2	15	19125	1902.5	1-0		QPSK	-
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	-	-	-	-	-	-	-		
			Downlink						CH spacing [MHz] *3
			PCC *2						
	Inter band		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
			2	15	1125	1982.5	75-0		QPSK
	Intra band Contiguous		SCC1 *4						19.8
Band			Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
66			20	67036	2170	100-0		QPSK	
SCC2 *4									
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation			
66	20	66838	2150.2	100-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.95	22.90	-0.05

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
 *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3		
		PCC								
CA_2A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	20	132322	1745	1-0		QPSK	-	
		SCC1								
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		-	-	-	-	-	-	-		
		Downlink								
	PCC *2						PCC, SCC1 CH spacing [MHz] *3			
	Intra band Contiguous	Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
		66	20	66786	2145	100-0		QPSK	19.8	
		SCC1								
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
66		20	66588	2125.2	100-0		QPSK			
SCC2										
Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation				
2	20	900	1960	100-0		QPSK	-			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
23.02	22.91	-0.11

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		CA_2A-66A-66A		2	15	19125	1902.5	1-0
SCC1								
Band	Bandwidth [MHz]			Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
-	-			-	-	-	-	-
Downlink								
PCC *2								
Inter band	Band		Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
	2		15	1125	1982.5	75-0		QPSK
	SCC1 *3							
	Band		Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
	66		20	66536	2120	100-0		QPSK
	SCC2 *3							
Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation	
	66	20	67036	2170	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.95	22.97	0.02

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-66A-66A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				66	20	132322	1745	1-0
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-66A-66A	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		66	20	66786	2145	100-0		QPSK
		SCC1 *4						
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation
		66	20	65536	2170	100-0		QPSK
		SCC2 *4						
		Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation
		2	20	900	1960	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
23.02	22.91	-0.11

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.

*2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.

*3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.

When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.

*4 Enable when downlink CA is active

*5 Set to the supported maximum bandwidth

*6 Set to Maximum RB

*7 Downlink SCC2 is near the middle of its transmission band

*8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)

*9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	20175	1732.5	1-0		QPSK	
SCC1							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
Downlink							
PCC *2							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	2175	2132.5	100-0		QPSK	
SCC1 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
7	20	2850	2630	100-0		QPSK	
SCC2 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
7	20	3350	2680	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	23.16	0.13

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_4A-7A-7A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		7	20	21350	2560	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		-	-	-	-	-	-	-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		7	20	3350	2680	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
		7	20	2850	2630	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	4	20	2175	2132.5	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
21.97	22.00	0.03

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		CA_5A-66A-66A	-	5	5	20525	836.5	1-0	
SCC1						Modulation			
Band	Bandwidth [MHz]			Channel	Frequency [MHz]		Resource Block Number	Resource Block Position	
-	-			-	-	-	-	-	-
Downlink						Modulation			
PCC *2									
Inter band	Band		Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	5		5	2525	881.5	25-0		QPSK	
Intra band non contiguous	SCC1 *3						Modulation		
	Band		Bandwidth *7	Channel	Frequency [MHz]	Resource Block Number *4		Resource Block Position	
	66		20	66536	2120	100-0		QPSK	
	SCC2 *3						Modulation		
	Band	Bandwidth *7	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position			
	66	20	67036	2170	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	23.02	-0.01

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_5A-66A-66A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		-	-	-	-	-	-	-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	66786	2145	75-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
		66	20	65536	2170	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
	5	10	2525	881.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
23.02	23.02	0.00

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
		PCC							
CA_5A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		5	5	20525	836.5	1-0		QPSK	
		SCC1						-	
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position		Modulation
	-	-	-	-	-	-	-		
			Downlink						
			PCC *2						CH spacing [MHz] *3
			Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	
	Inter band	5	5	2525	916.5	25-0		QPSK	-
			SCC1 *4						19.8
Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
	66	20	66786	2145	100-0		QPSK		
		SCC2 *4							
Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
	66	20	66588	2125.2	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	22.95	-0.08

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Configurable bandwidth combinations and representative channels
 *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3		
		PCC								
CA_5A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	20	132322	1745	1-0		QPSK	-	
		SCC1								
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		-	-	-	-	-	-	-		
		Downlink								
	PCC *2						PCC, SCC1 CH spacing [MHz] *3			
	Intra band Contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	20	66786	2145	100-0		QPSK	19.8	
		SCC1								
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
66		20	66588	2125.2	100-0		QPSK			
SCC2										
Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation				
5	10	2525	881.5	50-0		QPSK	-			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
23.02	22.94	-0.08

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	5	23230	782	1-0		QPSK	
SCC1							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
Downlink							
PCC *2							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	5	5230	751	25-0		QPSK	
SCC1 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
66	20	66536	2120	100-0		QPSK	
SCC2 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
66	20	67036	2170	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.88	22.92	0.04

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_13A-66A-66A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number Position		Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number Position		Modulation	
		-	-	-	-	-		-	
		Downlink							
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number Position		Modulation	
		66	20	66786	2145	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6 Position		Modulation	
		66	20	65536	2170	100-0		QPSK	
SCC2 *4									
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6 Position		Modulation		
	13	10	5230	751	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
23.02	22.94	-0.08

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *9 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3
		PCC						
CA_13A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		13	5	23230	782	Number	Position	QPSK
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		
	-	-	-	-	-	-	-	-
	Downlink							
	PCC *2							CH spacing [MHz] *3
	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		13	5	5230	751	Number	Position	QPSK
Intra band Contiguous	SCC1 *4						9.3	
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block			Modulation
	66	15	66511	2117.5	Number	Position		QPSK
	SCC2 *4							
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation		
66	5	66604	2126.8	Number	Position	QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.88	22.93	0.05

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Configurable bandwidth combinations and representative channels
 *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
		PCC							
CA_13A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	15	132322	1745	1-0		QPSK	-
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	-	-	-	-	-	-	-		
			Downlink						PCC, SCC1 CH spacing [MHz] *3
			PCC *2						
	Intra band Contiguous	Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	9.3
		66	15	66786	2145	75-0		QPSK	
		SCC1							
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
66		5	66693	2135.7	25-0		QPSK		
SCC2									
Inter band	Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	-	
	13	10	5230	751	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.95	22.99	0.04

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3	
		PCC							
CA_5A-66B		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
		5	5	20525	836.5	Number	Position	1-0	QPSK
		SCC1							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
	-	-	-	-	Number	Position	-	-	
	Downlink								
	PCC *2							CH spacing [MHz] *3	
	-	-	-	-	-	-	-	-	
	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
		5	5	2525	916.5	Number	Position	25-0	QPSK
Intra band Contiguous	SCC1 *4								
	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation		
	66	15	66786	2145	Number	Position	75-0	QPSK	
	SCC2 *4								
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation			
66	5	66693	2135.7	Number	Position	25-0	QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.03	22.96	-0.07

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1] \cdot [BW1-BW2] / 2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Configurable bandwidth combinations and representative channels
 *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3		
		PCC								
CA_5A-66B	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	15	132047	1717.5	1-0		QPSK	-	
		SCC1								
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		-	-	-	-	-	-	-		
		Downlink								
	PCC *2						PCC, SCC1 CH spacing [MHz] *3			
	Intra band Contiguous	Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation		
		66	15	66511	2117.5	75-0		QPSK	9.3	
		SCC1								
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
66		5	66604	2126.8	25-0		QPSK			
SCC2										
Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation				
5	10	2525	881.5	50-0		QPSK	-			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.95	23.00	0.05

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3
		PCC						
CA_13A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		13	5	23230	782	Number	Position	QPSK
		SCC1						-
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		
	-	-	-	-	Number	Position	-	
	Downlink							
	PCC *2						CH spacing [MHz] *3	
	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation
		13	5	5230	751	Number	Position	QPSK
	Intra band Contiguous	SCC1 *4						19,8
Band		Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
66		20	66786	2145	Number	Position	QPSK	
SCC2 *4								
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation		
66	20	66588	2125.2	Number	Position	QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.88	22.81	-0.07

*1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
 *4 Configurable bandwidth combinations and representative channels
 *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *6 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands, two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						PCC, SCC1 CH spacing [MHz] *3		
		PCC								
CA_13A-66C		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
		66	15	132322	1745	1-0		QPSK	-	
		SCC1								
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation		
	-	-	-	-	-	-	-			
			Downlink						PCC, SCC1 CH spacing [MHz] *3	
			PCC *2							
	Intra band Contiguous		Band	Bandwidth *5 [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
			66	15	66786	2145	75-0		QPSK	17.1
			SCC1							
Band		Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
66		20	66615	2127.9	100-0		QPSK			
		SCC2						-		
Inter band	Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation			
	13	10	5230	751	50-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
22.95	22.94	-0.01

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Downlink SCC2 is near the middle of its transmission band
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-2A-14A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		2	15	19125	1902.5	1-0		QPSK
		SCC1						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
	PCC *2							
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		2	15	1125	1982.5	75-0		QPSK
		SCC1 *4						
		Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation
		2	20	700	1940	100-0		QPSK
SCC2 *4								
Inter band	Band	Bandwidth *5 [MHz]	Channel *7	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
	14	10	5330	763	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *8	DL CA active [dBm]	Delta Power [dB] *9
22.95	22.85	-0.10

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 Uplink Power difference between downlink CA inactive and downlink CA active
- *9 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-2A-14A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
				14	5	23330	793	1-0
		SCC1						
	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		-	-	-	-	-	-	-
		Downlink						
		PCC *2						
CA_2A-2A-14A	Inter band	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		14	5	5330	763	25-0		QPSK
		SCC1 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	700	1940	100-0		QPSK
		SCC2 *3						
	Intra band non contiguous	Band	Bandwidth *7 [MHz]	Channel	Frequency [MHz]	Resource Block Number *4	Resource Block Position	Modulation
		2	20	1100	1980	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.84	22.82	-0.02

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
14	5	23330	793	1-0		QPSK	
SCC1							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
Downlink							
PCC *2							
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
14	5	5330	763	25-0		QPSK	
SCC1 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
66	20	66536	2120	100-0		QPSK	
SCC2 *3							
Band	Bandwidth *7	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *4	Position		
66	20	67036	2170	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
22.84	22.87	0.03

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC 1 and SCC 2 are set to provide each other with a maximum separation and to remain fully within the downlink transmission band.
- *4 Set to Maximum RB
- *5 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *6 Uplink Power difference between downlink CA inactive and downlink CA active
- *7 Set to the supported maximum bandwidth

<CA with 3 Carriers(two bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_14A-66A-66A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1							
		-	-	-	-	-	-	-	-
	Downlink								
	PCC *2								
	Intra band non contiguous	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	66786	2145	100-0		QPSK	
		SCC1 *4							
		66	20	67036	2170	100-0		QPSK	
Inter band	SCC2 *4								
	14	10	5330	763	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *5	DL CA active [dBm]	Delta Power [dB] *6
23.02	22.93	-0.09

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The SCC1 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
 When channel spacing between downlink PCC and SCC1 is smaller than nominal channel bandwidth, configurable other channels instead of the highest power channel can be selected.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 Downlink SCC2 is near the middle of its transmission band
- *8 Uplink Power difference between downlink CA inactive and downlink CA active
- *9 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-5A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		2	15	19125	1902.5	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		2	15	1125	1982.5	75-0		QPSK
		SCC1 *4						
		4	20	2175	2132.5	100-0		QPSK
		SCC2 *4						
5		10	2525	881.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.94	-0.01

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-5A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		4	20	20175	1732.5	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		4	20	2175	2132.5	100-0		QPSK
		SCC1 *4						
		2	20	900	1960	100-0		QPSK
		SCC2 *4						
5	10	2525	881.5	50-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	22.94	-0.09

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-5A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		5	5	20525	836.5	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		5	5	2525	881.5	25-0		QPSK
		SCC1 *4						
		2	20	900	1960	100-0		QPSK
		SCC2 *4						
4		20	2175	2132.5	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	23.00	-0.03

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-7A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		2	15	19125	1902.5	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		2	15	1125	1982.5	100-0		QPSK
		SCC1 *4						
		4	20	2175	2132.5	100-0		QPSK
		SCC2 *4						
7		20	3100	2655	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.88	-0.07

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-7A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		4	20	20175	1732.5	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		4	20	2175	2132.5	100-0		QPSK
		SCC1 *4						
		Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation
2		20	900	1960	100-0		QPSK	
SCC2 *4								
Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation		
7	20	3100	2655	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	22.94	-0.09

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1						
		PCC						
CA_2A-4A-7A	-	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		7	20	21350	2560	1-0		QPSK
		SCC1						
		-	-	-	-	-	-	-
	Inter band	Downlink						
		PCC *2						
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		7	20	3350	2680	75-0		QPSK
		SCC1 *4						
		Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation
2		20	900	1960	100-0		QPSK	
SCC2 *4								
Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation		
4	20	2175	2132.5	100-0		QPSK		

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
21.97	21.96	-0.01

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
2	15	1125	1982.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.90	-0.05

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
4	20	20175	1732.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	22.95	-0.08

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
12	5	23095	707.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
12	5	5095	737.5	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.84	22.91	0.07

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
13	10	5230	751	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.94	-0.01

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	20175	1732.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
13	10	5230	751	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	22.93	-0.10

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	10	23230	782	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	10	5230	751	50-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.70	22.62	-0.08

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
29	10	9715	722.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.92	-0.03

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	20175	1732.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
29	10	9715	722.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	23.06	0.03

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
7	20	3100	2655	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	23.05	0.10

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
7	20	21350	2560	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
7	20	3350	2680	75-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
21.97	22.03	0.06

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
12	5	23095	707.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
12	5	5095	737.5	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
7	20	3100	2655	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.84	22.89	0.05

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
4	20	20175	1732.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
7	20	3100	2655	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency [MHz]	Resource Block		Modulation	
	[MHz]			Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	23.06	0.03

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
7	20	21350	2560	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
7	20	3350	2680	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
12	10	5095	737.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
21.97	22.03	0.06

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
12	5	23095	707.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
12	5	5095	737.5	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
4	20	2175	2132.5	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
7	20	3100	2655	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.84	22.93	0.09

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
5	10	2525	881.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	23.01	0.06

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
5	5	20525	836.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
5	5	2525	881.5	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.03	23.06	0.03

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
66	20	132322	1745	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
66	20	66786	2145	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
5	10	2525	881.5	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.02	22.99	-0.03

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
13	10	5230	751	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.90	-0.05

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	5	23230	782	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
13	5	5230	751	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.88	22.87	-0.01

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
66	20	132322	1745	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
66	20	66786	2145	100-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
13	10	5230	751	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.02	23.04	0.02

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	19125	1902.5	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
2	15	1125	1982.5	75-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
14	10	5330	763	50-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.95	22.92	-0.03

E-UTRA CA Configuration		Uplink *1					
		PCC					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
14	5	23330	793	1-0		QPSK	
		SCC1					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
-	-	-	-	-		-	
		Downlink					
		PCC *2					
Band	Bandwidth	Channel	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number	Position		
14	5	5330	763	25-0		QPSK	
		SCC1 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
2	20	900	1960	100-0		QPSK	
		SCC2 *4					
Band	Bandwidth *8	Channel *3	Frequency	Resource Block		Modulation	
	[MHz]		[MHz]	Number *5	Position		
66	20	66786	2145	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
22.84	22.84	0.00

*1 Highest measured maximum output power when downlink carrier aggregation is inactive.
 *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
 *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
 *4 Enable when downlink CA is active
 *5 Set to Maximum RB
 *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
 *7 Uplink Power difference between downlink CA inactive and downlink CA active
 *8 Set to the supported maximum bandwidth

<CA with 3 Carriers(three bands) (Downlink CA only)>

E-UTRA CA Configuration		Uplink *1							
		PCC							
CA_2A-14A-66A		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	132322	1745	1-0		QPSK	
		SCC1							
		-	-	-	-	-	-	-	
	Inter band	Downlink							
		PCC *2							
		Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
		66	20	66786	2145	100-0		QPSK	
		SCC1 *4							
		Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation	
2		20	900	1960	100-0		QPSK		
SCC2 *4									
Band	Bandwidth *8 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *5	Resource Block Position	Modulation			
14	10	5330	763	50-0		QPSK			

Uplink Power Measurement Results		
DL CA inactive [dBm] *6	DL CA active [dBm]	Delta Power [dB] *7
23.02	22.93	-0.09

- *1 Highest measured maximum output power when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 Downlink SCC1 and SCC2 are near the middle of its transmission band
- *4 Enable when downlink CA is active
- *5 Set to Maximum RB
- *6 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *7 Uplink Power difference between downlink CA inactive and downlink CA active
- *8 Set to the supported maximum bandwidth

<Intra-band Contiguous 3CA (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3
	PCC						
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
			Number	Position			
48	10	55757	3601.7	1-0		QPSK	
SCC1							
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block		Modulation	
			Number	Position			
-	-	-	-	-		-	
Downlink							
PCC *2						PCC, SCC1, SCC2 CH spacing [MHz] *3	
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block			
			Number	Position			
48	10	55757	3601.7	25-0		QPSK	
SCC1 *4							
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block		Modulation	
			Number *6	Position			
48	20	55901	3616.1	100-0		QPSK	
SCC2 *4							
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block		Modulation	
			Number *6	Position			
48	20	56045	3630.5	100-0		QPSK	

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
18.85	18.80	-0.05

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive. If the highest measured maximum output power configuration is not available for the CA configuration, the next highest output power configuration is selected.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing. The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 Enable when downlink CA is active
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

<CA with 3 Carriers(two sub-blocks) (Downlink CA only)>

E-UTRA CA Configuration	Uplink *1						PCC, SCC1 CH spacing [MHz] *3
	PCC						
CA_48A-48C	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
		48	10	55757	3601.7	1-0	
	SCC1						-
Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation	
	-	-	-	-	-	-	-
Downlink							PCC, SCC1 CH spacing [MHz] *3
PCC *2							
CA_48A-48C	Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Resource Block Number	Resource Block Position	Modulation
	48	10	55757	3601.7	50-0		
	SCC1						14.4
Band	Bandwidth *5 [MHz]	Channel *3	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
	48	20	55901	3616.1	100-0		QPSK
	SCC2						-
Band	Bandwidth *5 [MHz]	Channel *4	Frequency [MHz]	Resource Block Number *6	Resource Block Position	Modulation	
	48	20	56640	3690	100-0		QPSK

Uplink Power Measurement Results		
DL CA inactive [dBm] *7	DL CA active [dBm]	Delta Power [dB] *8
18.85	18.80	-0.05

- *1 Highest measured maximum output power configuration when downlink carrier aggregation is inactive.
- *2 Downlink PCC channel is paired with the uplink channel according to normal configurations, as if there is no carrier aggregation.
- *3 The channel spacing for intra-band contiguous CA is adjusted to any multiple of 300 kHz less than the nominal channel spacing. It is set to the maximum spacing less than nominal channel spacing.
 The nominal channel spacing is determined by $[BW1+BW2-0.1*|BW1-BW2|]/2$ MHz, where BW1 and BW2 are the channel bandwidth of the CC in a 2-CC aggregation configuration.
- *4 The SCC2 channel is selected to provide maximum separation from the Downlink PCC channel and remain fully within the downlink transmission band.
- *5 Set to the supported maximum bandwidth
- *6 Set to Maximum RB
- *7 See Section 9. RF Output Power Measurement result for the appropriate LTE Band (Single Carrier)
- *8 Uplink Power difference between downlink CA inactive and downlink CA active

10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

KDB 447498 D01 General RF Exposure Guidance:

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

1. ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
2. ≤ 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
3. ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 941225 D01 SAR test for 3G device:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ 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 D01 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Beginning with QPSK modulation at the largest channel bandwidth, testing for 1 RB allocation configurations is initially performed for the channel/RB offset combination with the highest output power among 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is < 0.8 W/kg, no further assessment is required for 1 RB allocation configurations.
 - o When the reported SAR for the initial measurement is > 0.8 W/kg, the remaining channels are evaluated using the RB offset with the highest output power within the respective channels.
 - o For all reported SAR that is > 1.45 W/kg, SAR, SAR is required for the remaining RB offset configurations of the same channel.
- The same procedures apply to QPSK 50% RB allocation configurations at the largest channel bandwidth.
- Testing for 100% RB allocation configurations at the largest channel bandwidth is performed for the channel, across low, mid and high, with the highest output power, when the highest reported SAR for either 1 RB or 50% RB is ≥ 0.8 W/kg, or when the maximum output power among 100% RB allocation configurations is greater than the maximum output power among either 1 RB or 50% RB allocation configurations.
 - o Testing for the remaining channels in 100% RB allocation configurations is required only when reported SAR for the initial 100% RB allocation configuration is > 1.45 W/kg.
- Testing for higher order modulations (16-QAM or 64-QAM) is required only when the highest reported SAR for QPSK is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is required only when the highest reported SAR for the highest channel bandwidth is > 1.45 W/Kg or if its output power is more than 0.5 dB higher than that of the highest channel.

According to Notice 2016-DRS001 based on the IEEE1528 and IEC 62209 requirements, the low, mid and high frequency channels for the configuration with the highest SAR value must be tested regardless of the SAR value measured.

Note: Measured value is rounded round off to three decimal places.

10.1. W-CDMA Band 2

Full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99 RMC 12.2 kbps	9262	1852.4	24.0	23.01				
			9400	1880.0	24.0	23.02	0.347	0.435		
			9538	1907.6	24.0	23.04				
Edge4	19	Rel 99 RMC 12.2 kbps	9262	1852.4	24.0	23.01				
			9400	1880	24.0	23.02	0.417	0.523		
			9538	1907.6	24.0	23.04				
Rear	9	Rel 99 RMC 12.2 kbps	9262	1852.4	24.0	23.01				
			9400	1880.0	24.0	23.02	0.558	0.699		
			9538	1907.6	24.0	23.04				
Rear tilt (Edge4 side)	9	Rel 99 RMC 12.2 kbps	9262	1852.4	24.0	23.01	0.858	1.078		
			9400	1880.0	24.0	23.02	0.872	1.093	1	
			9538	1907.6	24.0	23.04	0.760	0.948		
Rear tilt (Edge1 side)	0	Rel 99 RMC 12.2 kbps	9262	1852.4	24.0	23.01	0.659	0.828		
			9400	1880.0	24.0	23.02	0.681	0.853		
			9538	1907.6	24.0	23.04	0.644	0.803		

Reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99 RMC 12.2 kbps	9262	1852.4	19.3	18.92	0.825	0.900		
			9400	1880.0	19.3	18.89	0.962	1.057		
			9538	1907.6	19.3	18.91	1.090	1.192	2	
Rear	0	Rel 99 RMC 12.2 kbps	9262	1852.4	19.3	18.92				
			9400	1880.0	19.3	18.89	0.406	0.446		
			9538	1907.6	19.3	18.91				
Rear tilt (Edge4 side)	0	Rel 99 RMC 12.2 kbps	9262	1852.4	19.3	18.92				
			9400	1880.0	19.3	18.89	0.723	0.795		
			9538	1907.6	19.3	18.91				

10.2. W-CDMA Band 4

Full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99 RMC 12.2 kbps	1312	1712.4	24.0	22.85				
			1413	1732.6	24.0	22.84	0.292	0.381		
			1513	1752.6	24.0	22.87				
Edge4	19	Rel 99 RMC 12.2 kbps	1312	1712.4	24.0	22.85	0.587	0.765		
			1413	1732.6	24.0	22.84	0.633	0.827		
			1513	1752.6	24.0	22.87	0.607	0.787		
Rear	9	Rel 99 RMC 12.2 kbps	1312	1712.4	24.0	22.85				
			1413	1732.6	24.0	22.84	0.497	0.649		
			1513	1752.6	24.0	22.87				
Rear tilt (Edge4 side)	9	Rel 99 RMC 12.2 kbps	1312	1712.4	24.0	22.85	0.678	0.884		
			1413	1732.6	24.0	22.84	0.729	0.952	3	
			1513	1752.6	24.0	22.87	0.709	0.920		
Rear tilt (Edge1 side)	0	Rel 99 RMC 12.2 kbps	1312	1712.4	24.0	22.85	0.591	0.770		
			1413	1732.6	24.0	22.84	0.646	0.844		
			1513	1752.6	24.0	22.87	0.714	0.926		

Reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99 RMC 12.2 kbps	1312	1712.4	18.3	18.03				
			1413	1732.6	18.3	18.08	0.729	0.767	4	
			1513	1752.6	18.3	18.02				
Rear	0	Rel 99 RMC 12.2 kbps	1312	1712.4	18.3	18.03				
			1413	1732.6	18.3	18.08	0.331	0.348		
			1513	1752.6	18.3	18.02				
Rear tilt (Edge4 side)	0	Rel 99 RMC 12.2 kbps	1312	1712.4	18.3	18.03				
			1413	1732.6	18.3	18.08	0.692	0.728		
			1513	1752.6	18.3	18.02				

10.3. W-CDMA Band 5

Full power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge1	0	Rel 99 RMC 12.2 kbps	4132	826.4	24.0	23.15				
			4183	836.6	24.0	23.22	0.123	0.147		
			4233	846.6	24.0	23.13				
Edge4	19	Rel 99 RMC 12.2 kbps	4132	826.4	24.0	23.15				
			4183	836.6	24.0	23.22	0.508	0.608		
			4233	846.6	24.0	23.13				
Rear	9	Rel 99 RMC 12.2 kbps	4132	826.4	24.0	23.15				
			4183	836.6	24.0	23.22	0.555	0.664		
			4233	846.6	24.0	23.13				
Rear tilt (Edge4 side)	9	Rel 99 RMC 12.2 kbps	4132	826.4	24.0	23.15				
			4183	836.6	24.0	23.22	0.665	0.796	5	
			4233	846.6	24.0	23.13				
Rear tilt (Edge1 side)	0	Rel 99 RMC 12.2 kbps	4132	826.4	24.0	23.15				
			4183	836.6	24.0	23.22	0.572	0.685		
			4233	846.6	24.0	23.13				

Reduction power

Test Position	Dist. (mm)	Mode	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.	Note
					Tune-up limit	Meas.	Meas.	Scaled		
Edge4	0	Rel 99 RMC 12.2 kbps	4132	826.4	17.9	17.62	0.768	0.819		
			4183	836.6	17.9	17.75	0.847	0.877	6	
			4233	846.6	17.9	17.61	0.819	0.876		
Rear	0	Rel 99 RMC 12.2 kbps	4132	826.4	17.9	17.62				
			4183	836.6	17.9	17.75	0.281	0.291		
			4233	846.6	17.9	17.61				
Rear tilt (Edge4 side)	0	Rel 99 RMC 12.2 kbps	4132	826.4	17.9	17.62				
			4183	836.6	17.9	17.75	0.392	0.406		
			4233	846.6	17.9	17.61				

10.4. LTE Band 2

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	18700	1860	1	0	24.0	22.68			
			18700	1860	1	49	24.0	22.57			
			18700	1860	1	99	24.0	22.44			
			18900	1880	1	0	24.0	22.56			
			18900	1880	1	49	24.0	22.45			
			18900	1880	1	99	24.0	22.36			
			19100	1900	1	0	24.0	22.87	0.413	0.536	
			19100	1900	1	99	24.0	22.75			
			19100	1900	1	49	24.0	22.71			
			18700	1860	50	0	23.0	21.66			
			18700	1860	50	24	23.0	21.59			
			18700	1860	50	49	23.0	21.57			
			18900	1880	50	49	23.0	21.58			
			18900	1880	50	0	23.0	21.57			
			18900	1880	50	24	23.0	21.54			
			19100	1900	50	0	23.0	21.77	0.333	0.442	
			19100	1900	50	49	23.0	21.74			
			19100	1900	50	24	23.0	21.71			
Edge 4	19	QPSK	18700	1860	1	0	24.0	22.68			
			18700	1860	1	49	24.0	22.57			
			18700	1860	1	99	24.0	22.44			
			18900	1880	1	0	24.0	22.56			
			18900	1880	1	49	24.0	22.45			
			18900	1880	1	99	24.0	22.36			
			19100	1900	1	0	24.0	22.87	0.442	0.573	
			19100	1900	1	99	24.0	22.75			
			19100	1900	1	49	24.0	22.71			
			18700	1860	50	0	23.0	21.66			
			18700	1860	50	24	23.0	21.59			
			18700	1860	50	49	23.0	21.57			
			18900	1880	50	49	23.0	21.58			
			18900	1880	50	0	23.0	21.57			
			18900	1880	50	24	23.0	21.54			
			19100	1900	50	0	23.0	21.77	0.339	0.450	
			19100	1900	50	49	23.0	21.74			
			19100	1900	50	24	23.0	21.71			
Rear	9	QPSK	18700	1860	1	0	24.0	22.68			
			18700	1860	1	49	24.0	22.57			
			18700	1860	1	99	24.0	22.44			
			18900	1880	1	0	24.0	22.56			
			18900	1880	1	49	24.0	22.45			
			18900	1880	1	99	24.0	22.36			
			19100	1900	1	0	24.0	22.87	0.442	0.573	
			19100	1900	1	99	24.0	22.75			
			19100	1900	1	49	24.0	22.71			
			18700	1860	50	0	23.0	21.66			
			18700	1860	50	24	23.0	21.59			
			18700	1860	50	49	23.0	21.57			
			18900	1880	50	49	23.0	21.58			
			18900	1880	50	0	23.0	21.57			
			18900	1880	50	24	23.0	21.54			
			19100	1900	50	0	23.0	21.77	0.343	0.455	
			19100	1900	50	49	23.0	21.74			
			19100	1900	50	24	23.0	21.71			
19100	1900	100	0	23.0	21.71						
18700	1860	100	0	23.0	21.57						
18900	1880	100	0	23.0	21.52						

Test Position	Dist. (m.m)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	18700	1860	1	0	24.0	22.68	0.713	0.966	
			18700	1860	1	49	24.0	22.57			
			18700	1860	1	99	24.0	22.44			
			18900	1880	1	0	24.0	22.56	0.707	0.985	7
			18900	1880	1	49	24.0	22.45			
			18900	1880	1	99	24.0	22.36			
			19100	1900	1	0	24.0	22.87	0.666	0.864	
			19100	1900	1	99	24.0	22.75			
			19100	1900	1	49	24.0	22.71			
			18700	1860	50	0	23.0	21.66			
			18700	1860	50	24	23.0	21.59			
			18700	1860	50	49	23.0	21.57			
			18900	1880	50	49	23.0	21.58			
			18900	1880	50	0	23.0	21.57			
			18900	1880	50	24	23.0	21.54			
			19100	1900	50	0	23.0	21.77	0.527	0.700	
			19100	1900	50	49	23.0	21.74			
			19100	1900	50	24	23.0	21.71			
			19100	1900	100	0	23.0	21.71	0.512	0.689	
			18700	1860	100	0	23.0	21.57			
18900	1880	100	0	23.0	21.52						
Rear tilt (Edge1 side)	0	QPSK	18700	1860	1	0	24.0	22.68			
			18700	1860	1	49	24.0	22.57			
			18700	1860	1	99	24.0	22.44			
			18900	1880	1	0	24.0	22.56			
			18900	1880	1	49	24.0	22.45			
			18900	1880	1	99	24.0	22.36			
			19100	1900	1	0	24.0	22.87	0.573	0.743	
			19100	1900	1	99	24.0	22.75			
			19100	1900	1	49	24.0	22.71			
			18700	1860	50	0	23.0	21.66			
			18700	1860	50	24	23.0	21.59			
			18700	1860	50	49	23.0	21.57			
			18900	1880	50	49	23.0	21.58			
			18900	1880	50	0	23.0	21.57			
			18900	1880	50	24	23.0	21.54			
			19100	1900	50	0	23.0	21.77	0.430	0.571	
			19100	1900	50	49	23.0	21.74			
			19100	1900	50	24	23.0	21.71			
			19100	1900	100	0	23.0	21.71			
			18700	1860	100	0	23.0	21.57			
18900	1880	100	0	23.0	21.52						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	18700	1860	1	0	19.4	18.33	0.707	0.905	
			18700	1860	1	49	19.4	18.21			
			18700	1860	1	99	19.4	18.16			
			18900	1880	1	0	19.4	18.33	0.787	1.007	
			18900	1880	1	49	19.4	18.26			
			18900	1880	1	99	19.4	18.19			
			19100	1900	1	0	19.4	18.59	0.895	1.079	
			19100	1900	1	99	19.4	18.51			
			19100	1900	1	49	19.4	18.41			
			18700	1860	50	0	19.4	18.27	0.735	0.953	
			18700	1860	50	24	19.4	18.26			
			18700	1860	50	49	19.4	18.24			
			18900	1880	50	49	19.4	18.32	0.834	1.069	
			18900	1880	50	0	19.4	18.27			
			18900	1880	50	24	19.4	18.24			
			19100	1900	50	49	19.4	18.51	0.944	1.159	8
			19100	1900	50	0	19.4	18.50			
			19100	1900	50	24	19.4	18.49			
			19100	1900	100	0	19.4	18.48	0.908	1.122	
			18900	1880	100	0	19.4	18.26			
18700	1860	100	0	19.4	18.23						
Rear	0	QPSK	18700	1860	1	0	19.4	18.33			
			18700	1860	1	49	19.4	18.21			
			18700	1860	1	99	19.4	18.16			
			18900	1880	1	0	19.4	18.33			
			18900	1880	1	49	19.4	18.26			
			18900	1880	1	99	19.4	18.19			
			19100	1900	1	0	19.4	18.59	0.329	0.396	
			19100	1900	1	99	19.4	18.51			
			19100	1900	1	49	19.4	18.41			
			18700	1860	50	0	19.4	18.27			
			18700	1860	50	24	19.4	18.26			
			18700	1860	50	49	19.4	18.24			
			18900	1880	50	49	19.4	18.32			
			18900	1880	50	0	19.4	18.27			
			18900	1880	50	24	19.4	18.24			
			19100	1900	50	49	19.4	18.51	0.294	0.361	
			19100	1900	50	0	19.4	18.50			
			19100	1900	50	24	19.4	18.49			
			19100	1900	100	0	19.4	18.48			
			18900	1880	100	0	19.4	18.26			
18700	1860	100	0	19.4	18.23						
Rear tilt (Edge4 side)	0	QPSK	18700	1860	1	0	19.4	18.33			
			18700	1860	1	49	19.4	18.21			
			18700	1860	1	99	19.4	18.16			
			18900	1880	1	0	19.4	18.33			
			18900	1880	1	49	19.4	18.26			
			18900	1880	1	99	19.4	18.19			
			19100	1900	1	0	19.4	18.59	0.618	0.745	
			19100	1900	1	99	19.4	18.51			
			19100	1900	1	49	19.4	18.41			
			18700	1860	50	0	19.4	18.27			
			18700	1860	50	24	19.4	18.26			
			18700	1860	50	49	19.4	18.24			
			18900	1880	50	49	19.4	18.32			
			18900	1880	50	0	19.4	18.27			
			18900	1880	50	24	19.4	18.24			
			19100	1900	50	49	19.4	18.51	0.569	0.698	
			19100	1900	50	0	19.4	18.50			
			19100	1900	50	24	19.4	18.49			
			19100	1900	100	0	19.4	18.48			
			18900	1880	100	0	19.4	18.26			
18700	1860	100	0	19.4	18.23						

10.5. LTE Band 5

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	20450	829	1	49	24.0	22.91	0.125	0.161	
			20450	829	1	24	24.0	22.87			
			20450	829	1	0	24.0	22.81			
			20525	836.5	1	0	24.0	22.89			
			20525	836.5	1	24	24.0	22.84			
			20525	836.5	1	49	24.0	22.80			
			20600	844	1	0	24.0	22.80			
			20600	844	1	24	24.0	22.76			
			20600	844	1	49	24.0	22.71			
			20450	829	25	24	23.0	22.01			
			20450	829	25	12	23.0	21.99			
			20450	829	25	0	23.0	21.97			
			20525	836.5	25	0	23.0	21.97			
			20525	836.5	25	12	23.0	21.93			
			20525	836.5	25	24	23.0	21.89			
			20600	844	25	12	23.0	21.90			
			20600	844	25	0	23.0	21.89			
			20600	844	25	24	23.0	21.88			
			20450	829	50	0	23.0	22.00			
			20525	836.5	50	0	23.0	21.91			
20600	844	50	0	23.0	21.85						
Edge 4	19	QPSK	20450	829	1	49	24.0	22.91	0.337	0.433	
			20450	829	1	24	24.0	22.87			
			20450	829	1	0	24.0	22.81			
			20525	836.5	1	0	24.0	22.89			
			20525	836.5	1	24	24.0	22.84			
			20525	836.5	1	49	24.0	22.80			
			20600	844	1	0	24.0	22.80			
			20600	844	1	24	24.0	22.76			
			20600	844	1	49	24.0	22.71			
			20450	829	25	24	23.0	22.01			
			20450	829	25	12	23.0	21.99			
			20450	829	25	0	23.0	21.97			
			20525	836.5	25	0	23.0	21.97			
			20525	836.5	25	12	23.0	21.93			
			20525	836.5	25	24	23.0	21.89			
			20600	844	25	12	23.0	21.90			
			20600	844	25	0	23.0	21.89			
			20600	844	25	24	23.0	21.88			
			20450	829	50	0	23.0	22.00			
			20525	836.5	50	0	23.0	21.91			
20600	844	50	0	23.0	21.85						
Rear	9	QPSK	20450	829	1	49	24.0	22.91	0.518	0.666	
			20450	829	1	24	24.0	22.87			
			20450	829	1	0	24.0	22.81			
			20525	836.5	1	0	24.0	22.89			
			20525	836.5	1	24	24.0	22.84			
			20525	836.5	1	49	24.0	22.80			
			20600	844	1	0	24.0	22.80			
			20600	844	1	24	24.0	22.76			
			20600	844	1	49	24.0	22.71			
			20450	829	25	24	23.0	22.01			
			20450	829	25	12	23.0	21.99			
			20450	829	25	0	23.0	21.97			
			20525	836.5	25	0	23.0	21.97			
			20525	836.5	25	12	23.0	21.93			
			20525	836.5	25	24	23.0	21.89			
			20600	844	25	12	23.0	21.90			
			20600	844	25	0	23.0	21.89			
			20600	844	25	24	23.0	21.88			
			20450	829	50	0	23.0	22.00			
			20525	836.5	50	0	23.0	21.91			
20600	844	50	0	23.0	21.85						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	20450	829	1	49	24.0	22.91	0.588	0.756	9
			20450	829	1	24	24.0	22.87			
			20450	829	1	0	24.0	22.81			
			20525	836.5	1	0	24.0	22.89			
			20525	836.5	1	24	24.0	22.84			
			20525	836.5	1	49	24.0	22.80			
			20600	844	1	0	24.0	22.80			
			20600	844	1	24	24.0	22.76			
			20600	844	1	49	24.0	22.71			
			20450	829	25	24	23.0	22.01			
			20450	829	25	12	23.0	21.99			
			20450	829	25	0	23.0	21.97			
			20525	836.5	25	0	23.0	21.97			
			20525	836.5	25	12	23.0	21.93			
			20525	836.5	25	24	23.0	21.89			
			20600	844	25	12	23.0	21.90			
			20600	844	25	0	23.0	21.89			
			20600	844	25	24	23.0	21.88			
			20450	829	50	0	23.0	22.00			
			20525	836.5	50	0	23.0	21.91			
20600	844	50	0	23.0	21.85						
Rear tilt (Edge1 side)	0	QPSK	20450	829	1	49	24.0	22.91	0.306	0.393	
			20450	829	1	24	24.0	22.87			
			20450	829	1	0	24.0	22.81			
			20525	836.5	1	0	24.0	22.89			
			20525	836.5	1	24	24.0	22.84			
			20525	836.5	1	49	24.0	22.80			
			20600	844	1	0	24.0	22.80			
			20600	844	1	24	24.0	22.76			
			20600	844	1	49	24.0	22.71			
			20450	829	25	24	23.0	22.01			
			20450	829	25	12	23.0	21.99			
			20450	829	25	0	23.0	21.97			
			20525	836.5	25	0	23.0	21.97			
			20525	836.5	25	12	23.0	21.93			
			20525	836.5	25	24	23.0	21.89			
			20600	844	25	12	23.0	21.90			
			20600	844	25	0	23.0	21.89			
			20600	844	25	24	23.0	21.88			
			20450	829	50	0	23.0	22.00			
			20525	836.5	50	0	23.0	21.91			
20600	844	50	0	23.0	21.85						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	20450	829	1	49	18.7	18.08	0.913	1.053	
			20450	829	1	24	18.7	17.97			
			20450	829	1	0	18.7	17.90			
			20525	836.5	1	0	18.7	18.07	0.822	0.950	
			20525	836.5	1	24	18.7	18.02			
			20525	836.5	1	49	18.7	17.92			
			20600	844	1	0	18.7	17.84	0.901	1.098	
			20600	844	1	24	18.7	17.77			
			20600	844	1	49	18.7	17.72			
			20450	829	25	24	18.7	18.01	0.945	1.108	
			20450	829	25	12	18.7	17.95			
			20450	829	25	0	18.7	17.93			
			20525	836.5	25	0	18.7	17.98	0.950	1.121	10
			20525	836.5	25	12	18.7	17.96			
			20525	836.5	25	24	18.7	17.92			
			20600	844	25	0	18.7	17.93	0.934	1.115	
			20600	844	25	12	18.7	17.92			
			20600	844	25	24	18.7	17.87			
			20450	829	50	0	18.7	18.00	0.913	1.073	
			20525	836.5	50	0	18.7	17.92			
20600	844	50	0	18.7	17.90						
Rear	0	QPSK	20450	829	1	49	18.7	18.08	0.341	0.393	
			20450	829	1	24	18.7	17.97			
			20450	829	1	0	18.7	17.90			
			20525	836.5	1	0	18.7	18.07			
			20525	836.5	1	24	18.7	18.02			
			20525	836.5	1	49	18.7	17.92			
			20600	844	1	0	18.7	17.84			
			20600	844	1	24	18.7	17.77			
			20600	844	1	49	18.7	17.72			
			20450	829	25	24	18.7	18.01	0.350	0.410	
			20450	829	25	12	18.7	17.95			
			20450	829	25	0	18.7	17.93			
			20525	836.5	25	0	18.7	17.98			
			20525	836.5	25	12	18.7	17.96			
			20525	836.5	25	24	18.7	17.92			
			20600	844	25	0	18.7	17.93			
			20600	844	25	12	18.7	17.92			
			20600	844	25	24	18.7	17.87			
			20450	829	50	0	18.7	18.00			
			20525	836.5	50	0	18.7	17.92			
20600	844	50	0	18.7	17.90						
Rear tilt (Edge4 side)	0	QPSK	20450	829	1	49	18.7	18.08	0.458	0.528	
			20450	829	1	24	18.7	17.97			
			20450	829	1	0	18.7	17.90			
			20525	836.5	1	0	18.7	18.07			
			20525	836.5	1	24	18.7	18.02			
			20525	836.5	1	49	18.7	17.92			
			20600	844	1	0	18.7	17.84			
			20600	844	1	24	18.7	17.77			
			20600	844	1	49	18.7	17.72			
			20450	829	25	24	18.7	18.01	0.491	0.576	
			20450	829	25	12	18.7	17.95			
			20450	829	25	0	18.7	17.93			
			20525	836.5	25	0	18.7	17.98			
			20525	836.5	25	12	18.7	17.96			
			20525	836.5	25	24	18.7	17.92			
			20600	844	25	0	18.7	17.93			
			20600	844	25	12	18.7	17.92			
			20600	844	25	24	18.7	17.87			
			20450	829	50	0	18.7	18.00			
			20525	836.5	50	0	18.7	17.92			
20600	844	50	0	18.7	17.90						

10.6. LTE Band 7

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	20850	2510	1	0	23.0	21.94			
			20850	2510	1	99	23.0	21.70			
			20850	2510	1	49	23.0	21.68			
			21100	2535	1	0	23.0	21.93			
			21100	2535	1	99	23.0	21.89			
			21100	2535	1	49	23.0	21.83			
			21350	2560	1	0	23.0	21.97	0.165	0.209	
			21350	2560	1	49	23.0	21.77			
			21350	2560	1	99	23.0	21.66			
			20850	2510	50	0	22.0	20.83			
			20850	2510	50	24	22.0	20.73			
			20850	2510	50	49	22.0	20.70			
			21100	2535	50	0	22.0	20.85	0.138	0.180	
			21100	2535	50	24	22.0	20.82			
			21100	2535	50	49	22.0	20.77			
			21350	2560	50	0	22.0	20.82			
			21350	2560	50	24	22.0	20.77			
			21350	2560	50	49	22.0	20.73			
			21100	2535	100	0	22.0	20.80			
			21350	2560	100	0	22.0	20.78			
20850	2510	100	0	22.0	20.71						
Edge 4	19	QPSK	20850	2510	1	0	23.0	21.94			
			20850	2510	1	99	23.0	21.70			
			20850	2510	1	49	23.0	21.68			
			21100	2535	1	0	23.0	21.93			
			21100	2535	1	99	23.0	21.89			
			21100	2535	1	49	23.0	21.83			
			21350	2560	1	0	23.0	21.97	0.392	0.497	
			21350	2560	1	49	23.0	21.77			
			21350	2560	1	99	23.0	21.66			
			20850	2510	50	0	22.0	20.83			
			20850	2510	50	24	22.0	20.73			
			20850	2510	50	49	22.0	20.70			
			21100	2535	50	0	22.0	20.85	0.261	0.340	
			21100	2535	50	24	22.0	20.82			
			21100	2535	50	49	22.0	20.77			
			21350	2560	50	0	22.0	20.82			
			21350	2560	50	24	22.0	20.77			
			21350	2560	50	49	22.0	20.73			
			21100	2535	100	0	22.0	20.80			
			21350	2560	100	0	22.0	20.78			
20850	2510	100	0	22.0	20.71						
Rear	9	QPSK	20850	2510	1	0	23.0	21.94			
			20850	2510	1	99	23.0	21.70			
			20850	2510	1	49	23.0	21.68			
			21100	2535	1	0	23.0	21.93			
			21100	2535	1	99	23.0	21.89			
			21100	2535	1	49	23.0	21.83			
			21350	2560	1	0	23.0	21.97	0.388	0.492	
			21350	2560	1	49	23.0	21.77			
			21350	2560	1	99	23.0	21.66			
			20850	2510	50	0	22.0	20.83			
			20850	2510	50	24	22.0	20.73			
			20850	2510	50	49	22.0	20.70			
			21100	2535	50	0	22.0	20.85	0.288	0.375	
			21100	2535	50	24	22.0	20.82			
			21100	2535	50	49	22.0	20.77			
			21350	2560	50	0	22.0	20.82			
			21350	2560	50	24	22.0	20.77			
			21350	2560	50	49	22.0	20.73			
			21100	2535	100	0	22.0	20.80			
			21350	2560	100	0	22.0	20.78			
20850	2510	100	0	22.0	20.71						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	20850	2510	1	0	23.0	21.94			
			20850	2510	1	99	23.0	21.70			
			20850	2510	1	49	23.0	21.68			
			21100	2535	1	0	23.0	21.93			
			21100	2535	1	99	23.0	21.89			
			21100	2535	1	49	23.0	21.83			
			21350	2560	1	0	23.0	21.97	0.552	0.700	11
			21350	2560	1	49	23.0	21.77			
			21350	2560	1	99	23.0	21.66			
			20850	2510	50	0	22.0	20.83			
			20850	2510	50	24	22.0	20.73			
			20850	2510	50	49	22.0	20.70			
			21100	2535	50	0	22.0	20.85	0.422	0.550	
			21100	2535	50	24	22.0	20.82			
			21100	2535	50	49	22.0	20.77			
			21350	2560	50	0	22.0	20.82			
			21350	2560	50	24	22.0	20.77			
			21350	2560	50	49	22.0	20.73			
21100	2535	100	0	22.0	20.80						
21350	2560	100	0	22.0	20.78						
20850	2510	100	0	22.0	20.71						
Rear tilt (Edge1 side)	0	QPSK	20850	2510	1	0	23.0	21.94			
			20850	2510	1	99	23.0	21.70			
			20850	2510	1	49	23.0	21.68			
			21100	2535	1	0	23.0	21.93			
			21100	2535	1	99	23.0	21.89			
			21100	2535	1	49	23.0	21.83			
			21350	2560	1	0	23.0	21.97	0.508	0.644	
			21350	2560	1	49	23.0	21.77			
			21350	2560	1	99	23.0	21.66			
			20850	2510	50	0	22.0	20.83			
			20850	2510	50	24	22.0	20.73			
			20850	2510	50	49	22.0	20.70			
			21100	2535	50	0	22.0	20.85	0.382	0.498	
			21100	2535	50	24	22.0	20.82			
			21100	2535	50	49	22.0	20.77			
			21350	2560	50	0	22.0	20.82			
			21350	2560	50	24	22.0	20.77			
			21350	2560	50	49	22.0	20.73			
21100	2535	100	0	22.0	20.80						
21350	2560	100	0	22.0	20.78						
20850	2510	100	0	22.0	20.71						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	20850	2510	1	0	17.9	17.22	0.806	0.943	
			20850	2510	1	99	17.9	16.98			
			20850	2510	1	49	17.9	16.96			
			21100	2535	1	0	17.9	17.15	0.805	0.957	
			21100	2535	1	49	17.9	17.08			
			21100	2535	1	99	17.9	17.06			
			21350	2560	1	0	17.9	17.24	0.840	0.978	
			21350	2560	1	49	17.9	17.07			
			21350	2560	1	99	17.9	16.92			
			20850	2510	50	0	17.9	17.13	0.788	0.941	
			20850	2510	50	24	17.9	16.98			
			20850	2510	50	49	17.9	16.96			
			21100	2535	50	0	17.9	17.11	0.814	0.976	
			21100	2535	50	49	17.9	17.10			
			21100	2535	50	24	17.9	17.08			
			21350	2560	50	0	17.9	17.11	0.842	1.010	12
			21350	2560	50	24	17.9	17.10			
			21350	2560	50	49	17.9	17.06			
21100	2535	100	0	17.9	17.07	0.809	0.979				
21350	2560	100	0	17.9	17.06						
20850	2510	100	0	17.9	16.97						
Rear	0	QPSK	20850	2510	1	0	17.9	17.22			
			20850	2510	1	99	17.9	16.98			
			20850	2510	1	49	17.9	16.96			
			21100	2535	1	0	17.9	17.15			
			21100	2535	1	49	17.9	17.08			
			21100	2535	1	99	17.9	17.06			
			21350	2560	1	0	17.9	17.24	0.333	0.388	
			21350	2560	1	49	17.9	17.07			
			21350	2560	1	99	17.9	16.92			
			20850	2510	50	0	17.9	17.13	0.296	0.353	
			20850	2510	50	24	17.9	16.98			
			20850	2510	50	49	17.9	16.96			
			21100	2535	50	0	17.9	17.11			
			21100	2535	50	49	17.9	17.10			
			21100	2535	50	24	17.9	17.08			
			21350	2560	50	0	17.9	17.11			
			21350	2560	50	24	17.9	17.10			
			21350	2560	50	49	17.9	17.06			
21100	2535	100	0	17.9	17.07						
21350	2560	100	0	17.9	17.06						
20850	2510	100	0	17.9	16.97						
Rear tilt (Edge4 side)	0	QPSK	20850	2510	1	0	17.9	17.22			
			20850	2510	1	99	17.9	16.98			
			20850	2510	1	49	17.9	16.96			
			21100	2535	1	0	17.9	17.15			
			21100	2535	1	49	17.9	17.08			
			21100	2535	1	99	17.9	17.06			
			21350	2560	1	0	17.9	17.24	0.424	0.494	
			21350	2560	1	49	17.9	17.07			
			21350	2560	1	99	17.9	16.92			
			20850	2510	50	0	17.9	17.13	0.389	0.464	
			20850	2510	50	24	17.9	16.98			
			20850	2510	50	49	17.9	16.96			
			21100	2535	50	0	17.9	17.11			
			21100	2535	50	49	17.9	17.10			
			21100	2535	50	24	17.9	17.08			
			21350	2560	50	0	17.9	17.11			
			21350	2560	50	24	17.9	17.10			
			21350	2560	50	49	17.9	17.06			
21100	2535	100	0	17.9	17.07						
21350	2560	100	0	17.9	17.06						
20850	2510	100	0	17.9	16.97						

10.7. LTE Band 12

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	23060	704	1	24	24.0	22.78			
			23060	704	1	49	24.0	22.73			
			23060	704	1	0	24.0	22.64			
			23095	707.5	1	24	24.0	22.75			
			23095	707.5	1	0	24.0	22.67			
			23095	707.5	1	49	24.0	22.64			
			23130	711	1	49	24.0	22.79	0.121	0.160	
			23130	711	1	0	24.0	22.72			
			23130	711	1	24	24.0	22.64			
			23060	704	25	12	23.0	21.89	0.063	0.081	
			23060	704	25	24	23.0	21.83			
			23060	704	25	0	23.0	21.78			
			23095	707.5	25	0	23.0	21.86			
			23095	707.5	25	12	23.0	21.79			
			23095	707.5	25	24	23.0	21.77			
			23130	711	25	0	23.0	21.79			
			23130	711	25	12	23.0	21.78			
			23130	711	25	24	23.0	21.67			
23060	704	50	0	23.0	21.87						
23095	707.5	50	0	23.0	21.82						
23130	711	50	0	23.0	21.73						
Edge 4	19	QPSK	23060	704	1	24	24.0	22.78			
			23060	704	1	49	24.0	22.73			
			23060	704	1	0	24.0	22.64			
			23095	707.5	1	24	24.0	22.75			
			23095	707.5	1	0	24.0	22.67			
			23095	707.5	1	49	24.0	22.64			
			23130	711	1	49	24.0	22.79	0.116	0.153	
			23130	711	1	0	24.0	22.72			
			23130	711	1	24	24.0	22.64			
			23060	704	25	12	23.0	21.89	0.077	0.100	
			23060	704	25	24	23.0	21.83			
			23060	704	25	0	23.0	21.78			
			23095	707.5	25	0	23.0	21.86			
			23095	707.5	25	12	23.0	21.79			
			23095	707.5	25	24	23.0	21.77			
			23130	711	25	0	23.0	21.79			
			23130	711	25	12	23.0	21.78			
			23130	711	25	24	23.0	21.67			
23060	704	50	0	23.0	21.87						
23095	707.5	50	0	23.0	21.82						
23130	711	50	0	23.0	21.73						
Rear	9	QPSK	23060	704	1	24	24.0	22.78			
			23060	704	1	49	24.0	22.73			
			23060	704	1	0	24.0	22.64			
			23095	707.5	1	24	24.0	22.75			
			23095	707.5	1	0	24.0	22.67			
			23095	707.5	1	49	24.0	22.64			
			23130	711	1	49	24.0	22.79	0.225	0.297	
			23130	711	1	0	24.0	22.72			
			23130	711	1	24	24.0	22.64			
			23060	704	25	12	23.0	21.89	0.164	0.212	
			23060	704	25	24	23.0	21.83			
			23060	704	25	0	23.0	21.78			
			23095	707.5	25	0	23.0	21.86			
			23095	707.5	25	12	23.0	21.79			
			23095	707.5	25	24	23.0	21.77			
			23130	711	25	0	23.0	21.79			
			23130	711	25	12	23.0	21.78			
			23130	711	25	24	23.0	21.67			
23060	704	50	0	23.0	21.87						
23095	707.5	50	0	23.0	21.82						
23130	711	50	0	23.0	21.73						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	23060	704	1	24	24.0	22.78			
			23060	704	1	49	24.0	22.73			
			23060	704	1	0	24.0	22.64			
			23095	707.5	1	24	24.0	22.75			
			23095	707.5	1	0	24.0	22.67			
			23095	707.5	1	49	24.0	22.64			
			23130	711	1	49	24.0	22.79	0.326	0.431	
			23130	711	1	0	24.0	22.72			
			23130	711	1	24	24.0	22.64			
			23060	704	25	12	23.0	21.89	0.225	0.291	
			23060	704	25	24	23.0	21.83			
			23060	704	25	0	23.0	21.78			
			23095	707.5	25	0	23.0	21.86			
			23095	707.5	25	12	23.0	21.79			
			23095	707.5	25	24	23.0	21.77			
			23130	711	25	0	23.0	21.79			
			23130	711	25	12	23.0	21.78			
			23130	711	25	24	23.0	21.67			
			23060	704	50	0	23.0	21.87			
			23095	707.5	50	0	23.0	21.82			
23130	711	50	0	23.0	21.73						
Rear tilt (Edge1 side)	0	QPSK	23060	704	1	24	24.0	22.78			
			23060	704	1	49	24.0	22.73			
			23060	704	1	0	24.0	22.64			
			23095	707.5	1	24	24.0	22.75			
			23095	707.5	1	0	24.0	22.67			
			23095	707.5	1	49	24.0	22.64			
			23130	711	1	49	24.0	22.79	0.334	0.441	13
			23130	711	1	0	24.0	22.72			
			23130	711	1	24	24.0	22.64			
			23060	704	25	12	23.0	21.89	0.225	0.291	
			23060	704	25	24	23.0	21.83			
			23060	704	25	0	23.0	21.78			
			23095	707.5	25	0	23.0	21.86			
			23095	707.5	25	12	23.0	21.79			
			23095	707.5	25	24	23.0	21.77			
			23130	711	25	0	23.0	21.79			
			23130	711	25	12	23.0	21.78			
			23130	711	25	24	23.0	21.67			
			23060	704	50	0	23.0	21.87			
			23095	707.5	50	0	23.0	21.82			
23130	711	50	0	23.0	21.73						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	23060	704	1	24	20.4	19.35	0.824	1.049	
			23060	704	1	49	20.4	19.25			
			23060	704	1	0	20.4	19.19			
			23095	707.5	1	0	20.4	19.28	0.840	1.087	
			23095	707.5	1	24	20.4	19.24			
			23095	707.5	1	49	20.4	19.21			
			23130	711	1	49	20.4	19.40	0.944	1.188	14
			23130	711	1	0	20.4	19.26			
			23130	711	1	24	20.4	19.25			
			23060	704	25	12	20.4	19.45	0.843	1.049	
			23060	704	25	24	20.4	19.40			
			23060	704	25	0	20.4	19.31			
			23095	707.5	25	0	20.4	19.43	0.860	1.075	
			23095	707.5	25	12	20.4	19.42			
			23095	707.5	25	24	20.4	19.37			
			23130	711	25	0	20.4	19.37	0.882	1.118	
			23130	711	25	12	20.4	19.36			
			23130	711	25	24	20.4	19.27			
			23060	704	50	0	20.4	19.42	0.876	1.098	
			23095	707.5	50	0	20.4	19.41			
23130	711	50	0	20.4	19.32						
Rear	0	QPSK	23060	704	1	24	20.4	19.35			
			23060	704	1	49	20.4	19.25			
			23060	704	1	0	20.4	19.19			
			23095	707.5	1	0	20.4	19.28			
			23095	707.5	1	24	20.4	19.24			
			23095	707.5	1	49	20.4	19.21			
			23130	711	1	49	20.4	19.40	0.253	0.319	
			23130	711	1	0	20.4	19.26			
			23130	711	1	24	20.4	19.25			
			23060	704	25	12	20.4	19.45	0.227	0.283	
			23060	704	25	24	20.4	19.40			
			23060	704	25	0	20.4	19.31			
			23095	707.5	25	0	20.4	19.43			
			23095	707.5	25	12	20.4	19.42			
			23095	707.5	25	24	20.4	19.37			
			23130	711	25	0	20.4	19.37			
			23130	711	25	12	20.4	19.36			
			23130	711	25	24	20.4	19.27			
			23060	704	50	0	20.4	19.42			
			23095	707.5	50	0	20.4	19.41			
23130	711	50	0	20.4	19.32						
Rear tilt (Edge4 side)	0	QPSK	23060	704	1	24	20.4	19.35			
			23060	704	1	49	20.4	19.25			
			23060	704	1	0	20.4	19.19			
			23095	707.5	1	0	20.4	19.28			
			23095	707.5	1	24	20.4	19.24			
			23095	707.5	1	49	20.4	19.21			
			23130	711	1	49	20.4	19.40	0.434	0.546	
			23130	711	1	0	20.4	19.26			
			23130	711	1	24	20.4	19.25			
			23060	704	25	12	20.4	19.45	0.377	0.469	
			23060	704	25	24	20.4	19.40			
			23060	704	25	0	20.4	19.31			
			23095	707.5	25	0	20.4	19.43			
			23095	707.5	25	12	20.4	19.42			
			23095	707.5	25	24	20.4	19.37			
			23130	711	25	0	20.4	19.37			
			23130	711	25	12	20.4	19.36			
			23130	711	25	24	20.4	19.27			
			23060	704	50	0	20.4	19.42			
			23095	707.5	50	0	20.4	19.41			
23130	711	50	0	20.4	19.32						

10.8. LTE Band 13

Full power

Test Position	Dist (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	23230	782	1	0	24.0	22.70	0.207	0.279	
			23230	782	1	49	24.0	22.68			
			23230	782	1	24	24.0	22.60			
			23230	782	25	24	23.0	21.81	0.136	0.179	
			23230	782	25	0	23.0	21.79			
			23230	782	25	12	23.0	21.71			
Edge 4	19	QPSK	23230	782	1	0	24.0	22.70	0.203	0.274	
			23230	782	1	49	24.0	22.68			
			23230	782	1	24	24.0	22.60			
			23230	782	25	24	23.0	21.81	0.187	0.246	
			23230	782	25	0	23.0	21.79			
			23230	782	25	12	23.0	21.71			
Rear	9	QPSK	23230	782	1	0	24.0	22.70	0.356	0.480	
			23230	782	1	49	24.0	22.68			
			23230	782	1	24	24.0	22.60			
			23230	782	25	24	23.0	21.81	0.290	0.381	
			23230	782	25	0	23.0	21.79			
			23230	782	25	12	23.0	21.71			
Rear tilt (Edge4 side)	9	QPSK	23230	782	1	0	24.0	22.70	0.514	0.693	15
			23230	782	1	49	24.0	22.68			
			23230	782	1	24	24.0	22.60			
			23230	782	25	24	23.0	21.81	0.433	0.569	
			23230	782	25	0	23.0	21.79			
			23230	782	25	12	23.0	21.71			
Rear tilt (Edge1 side)	0	QPSK	23230	782	1	0	24.0	22.70	0.488	0.658	
			23230	782	1	49	24.0	22.68			
			23230	782	1	24	24.0	22.60			
			23230	782	25	24	23.0	21.81	0.407	0.535	
			23230	782	25	0	23.0	21.79			
			23230	782	25	12	23.0	21.71			
Rear tilt (Edge1 side)	0	QPSK	23230	782	50	0	23.0	21.80			

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	23230	782	1	0	19.2	18.37	0.923	1.117	
			23230	782	1	49	19.2	18.35			
			23230	782	1	24	19.2	18.33			
			23230	782	25	0	19.2	18.54	0.995	1.158	
			23230	782	25	12	19.2	18.42			
			23230	782	25	24	19.2	18.41			
Rear	0	QPSK	23230	782	50	0	19.2	18.51	1.010	1.184	16
			23230	782	1	0	19.2	18.37	0.319	0.386	
			23230	782	1	49	19.2	18.35			
			23230	782	1	24	19.2	18.33			
			23230	782	25	0	19.2	18.54	0.330	0.384	
			23230	782	25	12	19.2	18.42			
Rear tilt (Edge4 side)	0	QPSK	23230	782	25	24	19.2	18.41			
			23230	782	50	0	19.2	18.51			
			23230	782	1	0	19.2	18.37	0.519	0.628	
			23230	782	1	49	19.2	18.35			
			23230	782	1	24	19.2	18.33			
			23230	782	25	0	19.2	18.54	0.546	0.636	

10.9. LTE Band 14

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.	
							Tune-up limit	Meas. Avg	Meas.	Scaled		
Edge 1	0	QPSK	23330	793	1	0	24.0	22.77	0.167	0.222		
			23330	793	1	49	24.0	22.73				
			23330	793	1	24	24.0	22.70				
			23330	793	25	12	23.0	21.81	0.136	0.179		
			23330	793	25	0	23.0	21.80				
			23330	793	25	24	23.0	21.77				
Edge 4	19	QPSK	23330	793	1	0	24.0	22.77	0.259	0.344		
			23330	793	1	49	24.0	22.73				
			23330	793	1	24	24.0	22.70				
			23330	793	25	12	23.0	21.81	0.212	0.279		
			23330	793	25	0	23.0	21.80				
			23330	793	25	24	23.0	21.77				
Rear	9	QPSK	23330	793	1	0	24.0	22.77	0.382	0.507		
			23330	793	1	49	24.0	22.73				
			23330	793	1	24	24.0	22.70				
			23330	793	25	12	23.0	21.81	0.317	0.417		
			23330	793	25	0	23.0	21.80				
			23330	793	25	24	23.0	21.77				
Rear tilt (Edge4 side)	9	QPSK	23330	793	1	0	24.0	22.77	0.561	0.745	17	
			23330	793	1	49	24.0	22.73				
			23330	793	1	24	24.0	22.70				
			23330	793	25	12	23.0	21.81	0.482	0.634		
			23330	793	25	0	23.0	21.80				
			23330	793	25	24	23.0	21.77				
Rear tilt (Edge1 side)	0	QPSK	23330	793	1	0	24.0	22.77	0.537	0.713		
			23330	793	1	49	24.0	22.73				
			23330	793	1	24	24.0	22.70				
			23330	793	25	12	23.0	21.81	0.431	0.567		
			23330	793	25	0	23.0	21.80				
			23330	793	25	24	23.0	21.77				
23330	793	50	0	23.0	21.81							

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	23330	793	1	0	19.2	18.43	0.940	1.122	
			23330	793	1	49	19.2	18.41			
			23330	793	1	24	19.2	18.38			
			23330	793	25	12	19.2	18.49	0.964	1.135	
			23330	793	25	0	19.2	18.45			
			23330	793	25	24	19.2	18.41			
			23330	793	50	0	19.2	18.44	0.993	1.183	18
Rear	0	QPSK	23330	793	1	0	19.2	18.43	0.346	0.413	
			23330	793	1	49	19.2	18.41			
			23330	793	1	24	19.2	18.38			
			23330	793	25	12	19.2	18.49	0.359	0.423	
			23330	793	25	0	19.2	18.45			
			23330	793	25	24	19.2	18.41			
			23330	793	50	0	19.2	18.44			
Rear tilt (Edge4 side)	0	QPSK	23330	793	1	0	19.2	18.43	0.528	0.630	
			23330	793	1	49	19.2	18.41			
			23330	793	1	24	19.2	18.38			
			23330	793	25	12	19.2	18.49	0.546	0.643	
			23330	793	25	0	19.2	18.45			
			23330	793	25	24	19.2	18.41			
			23330	793	50	0	19.2	18.44			

10.10.LTE Band 26

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	26765	821.5	1	37	24.0	22.90			
			26765	821.5	1	74	24.0	22.82			
			26765	821.5	1	0	24.0	22.81			
			26865	831.5	1	37	24.0	22.97	0.183	0.232	
			26865	831.5	1	74	24.0	22.87			
			26865	831.5	1	0	24.0	22.83			
			26965	841.5	1	0	24.0	22.92			
			26965	841.5	1	37	24.0	22.85			
			26965	841.5	1	74	24.0	22.75			
			26765	821.5	36	19	23.0	21.82			
			26765	821.5	36	0	23.0	21.78			
			26765	821.5	36	39	23.0	21.75			
			26865	831.5	36	19	23.0	21.98	0.141	0.178	
			26865	831.5	36	39	23.0	21.88			
			26865	831.5	36	0	23.0	21.87			
			26965	841.5	36	0	23.0	21.91			
			26965	841.5	36	19	23.0	21.90			
			26965	841.5	36	39	23.0	21.81			
26865	831.5	75	0	23.0	21.97						
26965	841.5	75	0	23.0	21.81						
26765	821.5	75	0	23.0	21.79						
Edge 4	19	QPSK	26765	821.5	1	37	24.0	22.90			
			26765	821.5	1	74	24.0	22.82			
			26765	821.5	1	0	24.0	22.81			
			26865	831.5	1	37	24.0	22.97	0.527	0.668	
			26865	831.5	1	74	24.0	22.87			
			26865	831.5	1	0	24.0	22.83			
			26965	841.5	1	0	24.0	22.92			
			26965	841.5	1	37	24.0	22.85			
			26965	841.5	1	74	24.0	22.75			
			26765	821.5	36	19	23.0	21.82			
			26765	821.5	36	0	23.0	21.78			
			26765	821.5	36	39	23.0	21.75			
			26865	831.5	36	19	23.0	21.98	0.416	0.526	
			26865	831.5	36	39	23.0	21.88			
			26865	831.5	36	0	23.0	21.87			
			26965	841.5	36	0	23.0	21.91			
			26965	841.5	36	19	23.0	21.90			
			26965	841.5	36	39	23.0	21.81			
26865	831.5	75	0	23.0	21.97						
26965	841.5	75	0	23.0	21.81						
26765	821.5	75	0	23.0	21.79						
Rear	9	QPSK	26765	821.5	1	37	24.0	22.90			
			26765	821.5	1	74	24.0	22.82			
			26765	821.5	1	0	24.0	22.81			
			26865	831.5	1	37	24.0	22.97	0.468	0.593	
			26865	831.5	1	74	24.0	22.87			
			26865	831.5	1	0	24.0	22.83			
			26965	841.5	1	0	24.0	22.92			
			26965	841.5	1	37	24.0	22.85			
			26965	841.5	1	74	24.0	22.75			
			26765	821.5	36	19	23.0	21.82			
			26765	821.5	36	0	23.0	21.78			
			26765	821.5	36	39	23.0	21.75			
			26865	831.5	36	19	23.0	21.98	0.376	0.476	
			26865	831.5	36	39	23.0	21.88			
			26865	831.5	36	0	23.0	21.87			
			26965	841.5	36	0	23.0	21.91			
			26965	841.5	36	19	23.0	21.90			
			26965	841.5	36	39	23.0	21.81			
26865	831.5	75	0	23.0	21.97						
26965	841.5	75	0	23.0	21.81						
26765	821.5	75	0	23.0	21.79						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	26765	821.5	1	37	24.0	22.90	0.670	0.863	
			26765	821.5	1	74	24.0	22.82			
			26765	821.5	1	0	24.0	22.81			
			26865	831.5	1	37	24.0	22.97	0.737	0.934	
			26865	831.5	1	74	24.0	22.87			
			26865	831.5	1	0	24.0	22.83			
			26965	841.5	1	0	24.0	22.92	0.729	0.935	19
			26965	841.5	1	37	24.0	22.85			
			26965	841.5	1	74	24.0	22.75			
			26765	821.5	36	19	23.0	21.82			
			26765	821.5	36	0	23.0	21.78			
			26765	821.5	36	39	23.0	21.75			
			26865	831.5	36	19	23.0	21.98	0.579	0.732	
			26865	831.5	36	39	23.0	21.88			
			26865	831.5	36	0	23.0	21.87			
			26965	841.5	36	0	23.0	21.91			
			26965	841.5	36	19	23.0	21.90			
			26965	841.5	36	39	23.0	21.81			
			26865	831.5	75	0	23.0	21.97	0.524	0.664	
			26965	841.5	75	0	23.0	21.81			
26765	821.5	75	0	23.0	21.79						
Rear tilt (Edge1 side)	0	QPSK	26765	821.5	1	37	24.0	22.90			
			26765	821.5	1	74	24.0	22.82			
			26765	821.5	1	0	24.0	22.81			
			26865	831.5	1	37	24.0	22.97	0.560	0.710	
			26865	831.5	1	74	24.0	22.87			
			26865	831.5	1	0	24.0	22.83			
			26965	841.5	1	0	24.0	22.92			
			26965	841.5	1	37	24.0	22.85			
			26965	841.5	1	74	24.0	22.75			
			26765	821.5	36	19	23.0	21.82			
			26765	821.5	36	0	23.0	21.78			
			26765	821.5	36	39	23.0	21.75			
			26865	831.5	36	19	23.0	21.98	0.454	0.574	
			26865	831.5	36	39	23.0	21.88			
			26865	831.5	36	0	23.0	21.87			
			26965	841.5	36	0	23.0	21.91			
			26965	841.5	36	19	23.0	21.90			
			26965	841.5	36	39	23.0	21.81			
			26865	831.5	75	0	23.0	21.97			
			26965	841.5	75	0	23.0	21.81			
26765	821.5	75	0	23.0	21.79						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.				
							Tune-up limit	Meas. Avg	Meas.	Scaled					
Edge 4	0	QPSK	26765	821.5	1	37	19.1	18.29	0.861	1.038					
			26765	821.5	1	0	19.1	18.24							
			26765	821.5	1	74	19.1	18.22	0.976	1.157					
			26865	831.5	1	37	19.1	18.36							
			26865	831.5	1	74	19.1	18.23	0.995	1.207					
			26865	831.5	1	0	19.1	18.21							
			26965	841.5	1	0	19.1	18.26	0.856	1.032					
			26965	841.5	1	37	19.1	18.17							
			26965	841.5	1	74	19.1	18.04	0.959	1.132					
			26765	821.5	36	19	19.1	18.29							
			26765	821.5	36	0	19.1	18.20	0.983	1.185					
			26765	821.5	36	39	19.1	18.19							
			26865	831.5	36	19	19.1	18.38	0.992	1.187					
			26865	831.5	36	0	19.1	18.30							
			26865	831.5	36	39	19.1	18.27	0.992	1.187					
			26965	841.5	36	0	19.1	18.29							
			26965	841.5	36	19	19.1	18.26	0.348	0.413					
			26965	841.5	36	39	19.1	18.19							
			Rear	0	QPSK	26765	821.5	1	37	19.1		18.29	0.352	0.415	
						26765	821.5	1	0	19.1		18.24			
26765	821.5	1				74	19.1	18.22	0.352	0.415					
26865	831.5	1				37	19.1	18.36							
26865	831.5	1				74	19.1	18.23	0.483	0.573					
26865	831.5	1				0	19.1	18.21							
26965	841.5	1				0	19.1	18.26	0.491	0.580					
26965	841.5	1				37	19.1	18.17							
26965	841.5	1				74	19.1	18.04	0.491	0.580					
26765	821.5	36				19	19.1	18.29							
26765	821.5	36				0	19.1	18.20	0.491	0.580					
26765	821.5	36				39	19.1	18.19							
26865	831.5	36				19	19.1	18.38	0.491	0.580					
26865	831.5	36				0	19.1	18.30							
26865	831.5	36				39	19.1	18.27	0.491	0.580					
26965	841.5	36				0	19.1	18.29							
26965	841.5	36				19	19.1	18.26	0.491	0.580					
26965	841.5	36				39	19.1	18.19							
26865	831.5	75				0	19.1	18.32	0.491	0.580					
26765	821.5	75				0	19.1	18.21							
26965	841.5	75	0	19.1	18.20	0.491	0.580								
26965	841.5	75	0	19.1	18.20										
Rear tilt (Edge4 side)	0	QPSK	26765	821.5	1	37	19.1	18.29	0.483	0.573					
			26765	821.5	1	0	19.1	18.24							
			26765	821.5	1	74	19.1	18.22	0.483	0.573					
			26865	831.5	1	37	19.1	18.36							
			26865	831.5	1	74	19.1	18.23	0.491	0.580					
			26865	831.5	1	0	19.1	18.21							
			26965	841.5	1	0	19.1	18.26	0.491	0.580					
			26965	841.5	1	37	19.1	18.17							
			26965	841.5	1	74	19.1	18.04	0.491	0.580					
			26765	821.5	36	19	19.1	18.29							
			26765	821.5	36	0	19.1	18.20	0.491	0.580					
			26765	821.5	36	39	19.1	18.19							
			26865	831.5	36	19	19.1	18.38	0.491	0.580					
			26865	831.5	36	0	19.1	18.30							
26865	831.5	36	39	19.1	18.27	0.491	0.580								
26965	841.5	36	0	19.1	18.29										
26965	841.5	36	19	19.1	18.26	0.491	0.580								
26965	841.5	36	39	19.1	18.19										
26865	831.5	75	0	19.1	18.32	0.491	0.580								
26765	821.5	75	0	19.1	18.21										
26965	841.5	75	0	19.1	18.20	0.491	0.580								
26965	841.5	75	0	19.1	18.20										

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Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	39750	2506	1	0	23.0	21.69			
			39750	2506	1	99	23.0	21.44			
			39750	2506	1	49	23.0	21.41			
			40185	2549.5	1	0	23.0	21.78			
			40185	2549.5	1	49	23.0	21.68			
			40185	2549.5	1	99	23.0	21.65			
			40620	2593	1	0	23.0	21.71			
			40620	2593	1	99	23.0	21.63			
			40620	2593	1	49	23.0	21.60			
			41055	2636.5	1	0	23.0	21.73			
			41055	2636.5	1	49	23.0	21.61			
			41055	2636.5	1	99	23.0	21.54			
			41490	2680	1	0	23.0	21.93	0.042	0.054	
			41490	2680	1	49	23.0	21.74			
			41490	2680	1	99	23.0	21.72			
			39750	2506	50	0	22.0	20.78			
			39750	2506	50	24	22.0	20.66			
			39750	2506	50	49	22.0	20.65			
			40185	2549.5	50	0	22.0	20.78			
			40185	2549.5	50	24	22.0	20.66			
			40185	2549.5	50	49	22.0	20.65			
			40620	2593	50	24	22.0	20.74			
			40620	2593	50	0	22.0	20.73			
			40620	2593	50	49	22.0	20.69			
			41055	2636.5	50	0	22.0	20.89	0.045	0.058	
			41055	2636.5	50	24	22.0	20.87			
			41055	2636.5	50	49	22.0	20.85			
			41490	2680	50	0	22.0	20.84			
			41490	2680	50	24	22.0	20.82			
			41490	2680	50	49	22.0	20.79			
41055	2636.5	100	0	22.0	20.88						
41490	2680	100	0	22.0	20.85						
40185	2549.5	100	0	22.0	20.80						
40620	2593	100	0	22.0	20.75						
39750	2506	100	0	22.0	20.63						
Edge 4	19	QPSK	39750	2506	1	0	23.0	21.69			
			39750	2506	1	99	23.0	21.44			
			39750	2506	1	49	23.0	21.41			
			40185	2549.5	1	0	23.0	21.78			
			40185	2549.5	1	49	23.0	21.68			
			40185	2549.5	1	99	23.0	21.65			
			40620	2593	1	0	23.0	21.71			
			40620	2593	1	99	23.0	21.63			
			40620	2593	1	49	23.0	21.60			
			41055	2636.5	1	0	23.0	21.73			
			41055	2636.5	1	49	23.0	21.61			
			41055	2636.5	1	99	23.0	21.54			
			41490	2680	1	0	23.0	21.93	0.305	0.390	
			41490	2680	1	49	23.0	21.74			
			41490	2680	1	99	23.0	21.72			
			39750	2506	50	0	22.0	20.78			
			39750	2506	50	24	22.0	20.66			
			39750	2506	50	49	22.0	20.65			
			40185	2549.5	50	0	22.0	20.78			
			40185	2549.5	50	24	22.0	20.66			
			40185	2549.5	50	49	22.0	20.65			
			40620	2593	50	24	22.0	20.74			
			40620	2593	50	0	22.0	20.73			
			40620	2593	50	49	22.0	20.69			
			41055	2636.5	50	0	22.0	20.89	0.270	0.349	
			41055	2636.5	50	24	22.0	20.87			
			41055	2636.5	50	49	22.0	20.85			
			41490	2680	50	0	22.0	20.84			
			41490	2680	50	24	22.0	20.82			
			41490	2680	50	49	22.0	20.79			
41055	2636.5	100	0	22.0	20.88						
41490	2680	100	0	22.0	20.85						
40185	2549.5	100	0	22.0	20.80						
40620	2593	100	0	22.0	20.75						
39750	2506	100	0	22.0	20.63						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear	9	QPSK	39750	2506	1	0	23.0	21.69			
			39750	2506	1	99	23.0	21.44			
			39750	2506	1	49	23.0	21.41			
			40185	2549.5	1	0	23.0	21.78			
			40185	2549.5	1	49	23.0	21.68			
			40185	2549.5	1	99	23.0	21.65			
			40620	2593	1	0	23.0	21.71			
			40620	2593	1	99	23.0	21.63			
			40620	2593	1	49	23.0	21.60			
			41055	2636.5	1	0	23.0	21.73			
			41055	2636.5	1	49	23.0	21.61			
			41055	2636.5	1	99	23.0	21.54			
			41490	2680	1	0	23.0	21.93	0.278	0.356	
			41490	2680	1	49	23.0	21.74			
			41490	2680	1	99	23.0	21.72			
			39750	2506	50	0	22.0	20.78			
			39750	2506	50	24	22.0	20.66			
			39750	2506	50	49	22.0	20.65			
			40185	2549.5	50	0	22.0	20.78			
			40185	2549.5	50	24	22.0	20.66			
			40185	2549.5	50	49	22.0	20.65			
			40620	2593	50	24	22.0	20.74			
			40620	2593	50	0	22.0	20.73			
			40620	2593	50	49	22.0	20.69			
			41055	2636.5	50	0	22.0	20.89	0.240	0.310	
			41055	2636.5	50	24	22.0	20.87			
			41055	2636.5	50	49	22.0	20.85			
			41490	2680	50	0	22.0	20.84			
			41490	2680	50	24	22.0	20.82			
			41490	2680	50	49	22.0	20.79			
41055	2636.5	100	0	22.0	20.88						
41490	2680	100	0	22.0	20.85						
40185	2549.5	100	0	22.0	20.80						
40620	2593	100	0	22.0	20.75						
39750	2506	100	0	22.0	20.63						
Rear tilt (Edge4 side)	9	QPSK	39750	2506	1	0	23.0	21.69			
			39750	2506	1	99	23.0	21.44			
			39750	2506	1	49	23.0	21.41			
			40185	2549.5	1	0	23.0	21.78			
			40185	2549.5	1	49	23.0	21.68			
			40185	2549.5	1	99	23.0	21.65			
			40620	2593	1	0	23.0	21.71			
			40620	2593	1	99	23.0	21.63			
			40620	2593	1	49	23.0	21.60			
			41055	2636.5	1	0	23.0	21.73			
			41055	2636.5	1	49	23.0	21.61			
			41055	2636.5	1	99	23.0	21.54			
			41490	2680	1	0	23.0	21.93	0.422	0.540	21
			41490	2680	1	49	23.0	21.74			
			41490	2680	1	99	23.0	21.72			
			39750	2506	50	0	22.0	20.78			
			39750	2506	50	24	22.0	20.66			
			39750	2506	50	49	22.0	20.65			
			40185	2549.5	50	0	22.0	20.78			
			40185	2549.5	50	24	22.0	20.66			
			40185	2549.5	50	49	22.0	20.65			
			40620	2593	50	24	22.0	20.74			
			40620	2593	50	0	22.0	20.73			
			40620	2593	50	49	22.0	20.69			
			41055	2636.5	50	0	22.0	20.89	0.341	0.440	
			41055	2636.5	50	24	22.0	20.87			
			41055	2636.5	50	49	22.0	20.85			
			41490	2680	50	0	22.0	20.84			
			41490	2680	50	24	22.0	20.82			
			41490	2680	50	49	22.0	20.79			
41055	2636.5	100	0	22.0	20.88						
41490	2680	100	0	22.0	20.85						
40185	2549.5	100	0	22.0	20.80						
40620	2593	100	0	22.0	20.75						
39750	2506	100	0	22.0	20.63						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge1 side)	0	QPSK	39750	2506	1	0	23.0	21.69			
			39750	2506	1	99	23.0	21.44			
			39750	2506	1	49	23.0	21.41			
			40185	2549.5	1	0	23.0	21.78			
			40185	2549.5	1	49	23.0	21.68			
			40185	2549.5	1	99	23.0	21.65			
			40620	2593	1	0	23.0	21.71			
			40620	2593	1	99	23.0	21.63			
			40620	2593	1	49	23.0	21.60			
			41055	2636.5	1	0	23.0	21.73			
			41055	2636.5	1	49	23.0	21.61			
			41055	2636.5	1	99	23.0	21.54			
			41490	2680	1	0	23.0	21.93	0.322	0.412	
			41490	2680	1	49	23.0	21.74			
			41490	2680	1	99	23.0	21.72			
			39750	2506	50	0	22.0	20.78			
			39750	2506	50	24	22.0	20.66			
			39750	2506	50	49	22.0	20.65			
			40185	2549.5	50	0	22.0	20.78			
			40185	2549.5	50	24	22.0	20.66			
			40185	2549.5	50	49	22.0	20.65			
			40620	2593	50	24	22.0	20.74			
			40620	2593	50	0	22.0	20.73			
			40620	2593	50	49	22.0	20.69			
			41055	2636.5	50	0	22.0	20.89	0.264	0.341	
			41055	2636.5	50	24	22.0	20.87			
			41055	2636.5	50	49	22.0	20.85			
			41490	2680	50	0	22.0	20.84			
			41490	2680	50	24	22.0	20.82			
			41490	2680	50	49	22.0	20.79			
41055	2636.5	100	0	22.0	20.88						
41490	2680	100	0	22.0	20.85						
40185	2549.5	100	0	22.0	20.80						
40620	2593	100	0	22.0	20.75						
39750	2506	100	0	22.0	20.63						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	39750	2506	1	0	19.2	18.49	0.671	0.790	
			39750	2506	1	99	19.2	18.22			
			39750	2506	1	49	19.2	18.18			
			40185	2549.5	1	0	19.2	18.54	0.702	0.817	
			40185	2549.5	1	99	19.2	18.52			
			40185	2549.5	1	49	19.2	18.49			
			40620	2593	1	0	19.2	18.49	0.746	0.878	
			40620	2593	1	99	19.2	18.48			
			40620	2593	1	49	19.2	18.44			
			41055	2636.5	1	0	19.2	18.53	0.773	0.902	22
			41055	2636.5	1	49	19.2	18.42			
			41055	2636.5	1	99	19.2	18.33			
			41490	2680	1	0	19.2	18.79	0.734	0.807	
			41490	2680	1	49	19.2	18.57			
			41490	2680	1	99	19.2	18.52			
			39750	2506	50	0	19.2	18.64			
			39750	2506	50	24	19.2	18.52			
			39750	2506	50	49	19.2	18.47			
			40185	2549.5	50	0	19.2	18.61			
			40185	2549.5	50	24	19.2	18.52			
			40185	2549.5	50	49	19.2	18.47			
			40620	2593	50	0	19.2	18.57			
			40620	2593	50	49	19.2	18.54			
			40620	2593	50	24	19.2	18.51			
			41055	2636.5	50	0	19.2	18.69			
			41055	2636.5	50	24	19.2	18.67			
			41055	2636.5	50	49	19.2	18.66			
			41490	2680	50	0	19.2	18.71	0.706	0.790	
			41490	2680	50	49	19.2	18.65			
			41490	2680	50	24	19.2	18.64			
41055	2636.5	100	0	19.2	18.67	0.753	0.851				
41490	2680	100	0	19.2	18.66						
40185	2549.5	100	0	19.2	18.57						
40620	2593	100	0	19.2	18.51						
39750	2506	100	0	19.2	18.48						

Position	(mm)	lotion	CH #	(MHz)	Allocation	Start	Tune-up limit	Meas. Avg	Meas.	Scaled	No.
Rear	0	QPSK	39750	2506	1	0	19.2	18.49			
			39750	2506	1	99	19.2	18.22			
			39750	2506	1	49	19.2	18.18			
			40185	2549.5	1	0	19.2	18.54			
			40185	2549.5	1	99	19.2	18.52			
			40185	2549.5	1	49	19.2	18.49			
			40620	2593	1	0	19.2	18.49			
			40620	2593	1	99	19.2	18.48			
			40620	2593	1	49	19.2	18.44			
			41055	2636.5	1	0	19.2	18.53			
			41055	2636.5	1	49	19.2	18.42			
			41055	2636.5	1	99	19.2	18.33			
			41490	2680	1	0	19.2	18.79	0.269	0.296	
			41490	2680	1	49	19.2	18.57			
			41490	2680	1	99	19.2	18.52			
			39750	2506	50	0	19.2	18.64			
			39750	2506	50	24	19.2	18.52			
			39750	2506	50	49	19.2	18.47			
			40185	2549.5	50	0	19.2	18.61			
			40185	2549.5	50	24	19.2	18.52			
			40185	2549.5	50	49	19.2	18.47			
			40620	2593	50	0	19.2	18.57			
			40620	2593	50	49	19.2	18.54			
			40620	2593	50	24	19.2	18.51			
			41055	2636.5	50	0	19.2	18.69			
			41055	2636.5	50	24	19.2	18.67			
			41055	2636.5	50	49	19.2	18.66			
			41490	2680	50	0	19.2	18.71	0.257	0.288	
			41490	2680	50	49	19.2	18.65			
			41490	2680	50	24	19.2	18.64			
			41055	2636.5	100	0	19.2	18.67			
			41490	2680	100	0	19.2	18.66			
			40185	2549.5	100	0	19.2	18.57			
			40620	2593	100	0	19.2	18.51			
39750	2506	100	0	19.2	18.48						
Rear tilt (Edge4 side)	0	QPSK	39750	2506	1	0	19.2	18.49			
			39750	2506	1	99	19.2	18.22			
			39750	2506	1	49	19.2	18.18			
			40185	2549.5	1	0	19.2	18.54			
			40185	2549.5	1	99	19.2	18.52			
			40185	2549.5	1	49	19.2	18.49			
			40620	2593	1	0	19.2	18.49			
			40620	2593	1	99	19.2	18.48			
			40620	2593	1	49	19.2	18.44			
			41055	2636.5	1	0	19.2	18.53			
			41055	2636.5	1	49	19.2	18.42			
			41055	2636.5	1	99	19.2	18.33			
			41490	2680	1	0	19.2	18.79	0.421	0.463	
			41490	2680	1	49	19.2	18.57			
			41490	2680	1	99	19.2	18.52			
			39750	2506	50	0	19.2	18.64			
			39750	2506	50	24	19.2	18.52			
			39750	2506	50	49	19.2	18.47			
			40185	2549.5	50	0	19.2	18.61			
			40185	2549.5	50	24	19.2	18.52			
			40185	2549.5	50	49	19.2	18.47			
			40620	2593	50	0	19.2	18.57			
			40620	2593	50	49	19.2	18.54			
			40620	2593	50	24	19.2	18.51			
			41055	2636.5	50	0	19.2	18.69			
			41055	2636.5	50	24	19.2	18.67			
			41055	2636.5	50	49	19.2	18.66			
			41490	2680	50	0	19.2	18.71	0.402	0.450	
			41490	2680	50	49	19.2	18.65			
			41490	2680	50	24	19.2	18.64			
			41055	2636.5	100	0	19.2	18.67			
			41490	2680	100	0	19.2	18.66			
			40185	2549.5	100	0	19.2	18.57			
			40620	2593	100	0	19.2	18.51			
39750	2506	100	0	19.2	18.48						

10.12.LTE Band 48

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.		
							Tune-up limit	Meas. Avg	Meas.	Scaled			
Edge 1	0	QPSK	55340	3560	1	0	20.0	18.84	0.072	0.094			
			55340	3560	1	99	20.0	18.43					
			55340	3560	1	49	20.0	18.37					
			55773	3603.3	1	0	20.0	18.59					
			55773	3603.3	1	99	20.0	18.46					
			55773	3603.3	1	49	20.0	18.42					
			56207	3646.7	1	0	20.0	18.61					
			56207	3646.7	1	99	20.0	18.30					
			56207	3646.7	1	49	20.0	18.28					
			56640	3690	1	0	20.0	18.65					
			56640	3690	1	99	20.0	18.38					
			56640	3690	1	49	20.0	18.17					
			55340	3560	50	0	17.0	15.81			0.030	0.039	
			55340	3560	50	24	17.0	15.57					
			55340	3560	50	49	17.0	15.55					
			55773	3603.3	50	0	17.0	15.70					
			55773	3603.3	50	24	17.0	15.57					
			55773	3603.3	50	49	17.0	15.55					
			56207	3646.7	50	0	17.0	15.63					
			56207	3646.7	50	24	17.0	15.62					
			56207	3646.7	50	49	17.0	15.58					
			56640	3690	50	0	17.0	15.45					
			56640	3690	50	49	17.0	15.37					
			56640	3690	50	24	17.0	15.36					
			55340	3560	100	0	17.0	15.66					
			55773	3603.3	100	0	17.0	15.55					
			56207	3646.7	100	0	17.0	15.53					
			56640	3690	100	0	17.0	15.36					
Edge 4	19	QPSK	55340	3560	1	0	20.0	18.84	0.388	0.507	23		
			55340	3560	1	99	20.0	18.43					
			55340	3560	1	49	20.0	18.37					
			55773	3603.3	1	0	20.0	18.59					
			55773	3603.3	1	99	20.0	18.46					
			55773	3603.3	1	49	20.0	18.42					
			56207	3646.7	1	0	20.0	18.61					
			56207	3646.7	1	99	20.0	18.30					
			56207	3646.7	1	49	20.0	18.28					
			56640	3690	1	0	20.0	18.65					
			56640	3690	1	99	20.0	18.38					
			56640	3690	1	49	20.0	18.17					
			55340	3560	50	0	17.0	15.81				0.192	0.253
			55340	3560	50	24	17.0	15.57					
			55340	3560	50	49	17.0	15.55					
			55773	3603.3	50	0	17.0	15.70					
			55773	3603.3	50	24	17.0	15.57					
			55773	3603.3	50	49	17.0	15.55					
			56207	3646.7	50	0	17.0	15.63					
			56207	3646.7	50	24	17.0	15.62					
			56207	3646.7	50	49	17.0	15.58					
			56640	3690	50	0	17.0	15.45					
			56640	3690	50	49	17.0	15.37					
			56640	3690	50	24	17.0	15.36					
			55340	3560	100	0	17.0	15.66					
			55773	3603.3	100	0	17.0	15.55					
			56207	3646.7	100	0	17.0	15.53					
			56640	3690	100	0	17.0	15.36					

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.	
							Tune-up limit	Meas. Avg	Meas.	Scaled		
Rear	9	QPSK	55340	3560	1	0	20.0	18.84	0.147	0.192		
			55340	3560	1	99	20.0	18.43				
			55340	3560	1	49	20.0	18.37				
			55773	3603.3	1	0	20.0	18.59				
			55773	3603.3	1	99	20.0	18.46				
			55773	3603.3	1	49	20.0	18.42				
			56207	3646.7	1	0	20.0	18.61				
			56207	3646.7	1	99	20.0	18.30				
			56207	3646.7	1	49	20.0	18.28				
			56640	3690	1	0	20.0	18.65				
			56640	3690	1	99	20.0	18.38				
			56640	3690	1	49	20.0	18.17				
			55340	3560	50	0	17.0	15.81			0.070	0.092
			55340	3560	50	24	17.0	15.57				
			55340	3560	50	49	17.0	15.55				
			55773	3603.3	50	0	17.0	15.70				
			55773	3603.3	50	24	17.0	15.57				
			55773	3603.3	50	49	17.0	15.55				
			56207	3646.7	50	0	17.0	15.63				
			56207	3646.7	50	24	17.0	15.62				
			56207	3646.7	50	49	17.0	15.58				
			56640	3690	50	0	17.0	15.45				
			56640	3690	50	49	17.0	15.37				
			56640	3690	50	24	17.0	15.36				
55340	3560	100	0	17.0	15.66							
55773	3603.3	100	0	17.0	15.55							
56207	3646.7	100	0	17.0	15.53							
56640	3690	100	0	17.0	15.36							
Rear tilt (Edge4 side)	9	QPSK	55340	3560	1	0	20.0	18.84	0.332	0.434		
			55340	3560	1	99	20.0	18.43				
			55340	3560	1	49	20.0	18.37				
			55773	3603.3	1	0	20.0	18.59				
			55773	3603.3	1	99	20.0	18.46				
			55773	3603.3	1	49	20.0	18.42				
			56207	3646.7	1	0	20.0	18.61				
			56207	3646.7	1	99	20.0	18.30				
			56207	3646.7	1	49	20.0	18.28				
			56640	3690	1	0	20.0	18.65				
			56640	3690	1	99	20.0	18.38				
			56640	3690	1	49	20.0	18.17				
			55340	3560	50	0	17.0	15.81			0.164	0.216
			55340	3560	50	24	17.0	15.57				
			55340	3560	50	49	17.0	15.55				
			55773	3603.3	50	0	17.0	15.70				
			55773	3603.3	50	24	17.0	15.57				
			55773	3603.3	50	49	17.0	15.55				
			56207	3646.7	50	0	17.0	15.63				
			56207	3646.7	50	24	17.0	15.62				
			56207	3646.7	50	49	17.0	15.58				
			56640	3690	50	0	17.0	15.45				
			56640	3690	50	49	17.0	15.37				
			56640	3690	50	24	17.0	15.36				
55340	3560	100	0	17.0	15.66							
55773	3603.3	100	0	17.0	15.55							
56207	3646.7	100	0	17.0	15.53							
56640	3690	100	0	17.0	15.36							

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge1 side)	0	QPSK	55340	3560	1	0	20.0	18.84	0.266	0.347	
			55340	3560	1	99	20.0	18.43			
			55340	3560	1	49	20.0	18.37			
			55773	3603.3	1	0	20.0	18.59			
			55773	3603.3	1	99	20.0	18.46			
			55773	3603.3	1	49	20.0	18.42			
			56207	3646.7	1	0	20.0	18.61			
			56207	3646.7	1	99	20.0	18.30			
			56207	3646.7	1	49	20.0	18.28			
			56640	3690	1	0	20.0	18.65			
			56640	3690	1	99	20.0	18.38			
			56640	3690	1	49	20.0	18.17			
			55340	3560	50	0	17.0	15.81	0.133	0.175	
			55340	3560	50	24	17.0	15.57			
			55340	3560	50	49	17.0	15.55			
			55773	3603.3	50	0	17.0	15.70			
			55773	3603.3	50	24	17.0	15.57			
			55773	3603.3	50	49	17.0	15.55			
			56207	3646.7	50	0	17.0	15.63			
			56207	3646.7	50	24	17.0	15.62			
			56207	3646.7	50	49	17.0	15.58			
			56640	3690	50	0	17.0	15.45			
			56640	3690	50	49	17.0	15.37			
			56640	3690	50	24	17.0	15.36			
			55340	3560	100	0	17.0	15.66			
			55773	3603.3	100	0	17.0	15.55			
			56207	3646.7	100	0	17.0	15.53			
			56640	3690	100	0	17.0	15.36			

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	55340	3560	1	0	11.8	11.50	0.703	0.753	
			55340	3560	1	99	11.8	11.18			
			55340	3560	1	49	11.8	11.06			
			55773	3603.3	1	0	11.8	11.62	0.774	0.807	
			55773	3603.3	1	99	11.8	11.23			
			55773	3603.3	1	49	11.8	11.20			
			56207	3646.7	1	0	11.8	11.60	0.878	0.919	24
			56207	3646.7	1	99	11.8	11.47			
			56207	3646.7	1	49	11.8	11.31			
			56640	3690	1	0	11.8	11.69	0.832	0.853	
			56640	3690	1	99	11.8	11.51			
			56640	3690	1	49	11.8	11.42			
			55340	3560	50	0	11.8	11.48	0.699	0.752	
			55340	3560	50	24	11.8	11.33			
			55340	3560	50	49	11.8	11.29			
			55773	3603.3	50	0	11.8	11.48	0.775	0.834	
			55773	3603.3	50	49	11.8	11.33			
			55773	3603.3	50	24	11.8	11.29			
			56207	3646.7	50	0	11.8	11.68	0.860	0.884	
			56207	3646.7	50	24	11.8	11.55			
			56207	3646.7	50	49	11.8	11.43			
			56640	3690	50	0	11.8	11.54	0.818	0.868	
			56640	3690	50	49	11.8	11.49			
			56640	3690	50	24	11.8	11.37			
56207	3646.7	100	0	11.8	11.63	0.845	0.879				
56640	3690	100	0	11.8	11.48						
55773	3603.3	100	0	11.8	11.40						
55340	3560	100	0	11.8	11.32						
Rear	0	QPSK	55340	3560	1	0	11.8	11.50			
			55340	3560	1	99	11.8	11.18			
			55340	3560	1	49	11.8	11.06			
			55773	3603.3	1	0	11.8	11.62			
			55773	3603.3	1	99	11.8	11.23			
			55773	3603.3	1	49	11.8	11.20			
			56207	3646.7	1	0	11.8	11.60			
			56207	3646.7	1	99	11.8	11.47			
			56207	3646.7	1	49	11.8	11.31			
			56640	3690	1	0	11.8	11.69	0.065	0.067	
			56640	3690	1	99	11.8	11.51			
			56640	3690	1	49	11.8	11.42			
			55340	3560	50	0	11.8	11.48			
			55340	3560	50	24	11.8	11.33			
			55340	3560	50	49	11.8	11.29			
			55773	3603.3	50	0	11.8	11.48			
			55773	3603.3	50	49	11.8	11.33			
			55773	3603.3	50	24	11.8	11.29			
			56207	3646.7	50	0	11.8	11.68	0.069	0.071	
			56207	3646.7	50	24	11.8	11.55			
			56207	3646.7	50	49	11.8	11.43			
			56640	3690	50	0	11.8	11.54			
			56640	3690	50	49	11.8	11.49			
			56640	3690	50	24	11.8	11.37			
56207	3646.7	100	0	11.8	11.63						
56640	3690	100	0	11.8	11.48						
55773	3603.3	100	0	11.8	11.40						
55340	3560	100	0	11.8	11.32						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	0	QPSK	55340	3560	1	0	11.8	11.50			
			55340	3560	1	99	11.8	11.18			
			55340	3560	1	49	11.8	11.06			
			55773	3603.3	1	0	11.8	11.62			
			55773	3603.3	1	99	11.8	11.23			
			55773	3603.3	1	49	11.8	11.20			
			56207	3646.7	1	0	11.8	11.60			
			56207	3646.7	1	99	11.8	11.47			
			56207	3646.7	1	49	11.8	11.31			
			56640	3690	1	0	11.8	11.69	0.160	0.164	
			56640	3690	1	99	11.8	11.51			
			56640	3690	1	49	11.8	11.42			
			55340	3560	50	0	11.8	11.48			
			55340	3560	50	24	11.8	11.33			
			55340	3560	50	49	11.8	11.29			
			55773	3603.3	50	0	11.8	11.48			
			55773	3603.3	50	49	11.8	11.33			
			55773	3603.3	50	24	11.8	11.29			
			56207	3646.7	50	0	11.8	11.68	0.180	0.185	
			56207	3646.7	50	24	11.8	11.55			
			56207	3646.7	50	49	11.8	11.43			
			56640	3690	50	0	11.8	11.54			
			56640	3690	50	49	11.8	11.49			
			56640	3690	50	24	11.8	11.37			
			56207	3646.7	100	0	11.8	11.63			
			56640	3690	100	0	11.8	11.48			
			55773	3603.3	100	0	11.8	11.40			
			55340	3560	100	0	11.8	11.32			

10.13.LTE Band 66

Full power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 1	0	QPSK	132072	1720	1	0	24.0	22.92			
			132072	1720	1	99	24.0	22.86			
			132072	1720	1	49	24.0	22.79			
			132322	1745	1	0	24.0	23.02	0.246	0.308	
			132322	1745	1	49	24.0	22.85			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.87			
			132572	1770	1	49	24.0	22.69			
			132572	1770	1	99	24.0	22.56			
			132072	1720	50	49	23.0	21.89	0.265	0.342	
			132072	1720	50	0	23.0	21.85			
			132072	1720	50	24	23.0	21.84			
			132322	1745	50	0	23.0	21.86			
			132322	1745	50	24	23.0	21.79			
			132322	1745	50	49	23.0	21.76			
			132572	1770	50	0	23.0	21.83			
			132572	1770	50	24	23.0	21.79			
			132572	1770	50	49	23.0	21.70			
Edge 4	19	QPSK	132072	1720	1	0	24.0	22.92	0.681	0.873	
			132072	1720	1	99	24.0	22.86			
			132072	1720	1	49	24.0	22.79			
			132322	1745	1	0	24.0	23.02	0.751	0.941	
			132322	1745	1	49	24.0	22.85			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.87	0.689	0.894	
			132572	1770	1	49	24.0	22.69			
			132572	1770	1	99	24.0	22.56			
			132072	1720	50	49	23.0	21.89	0.557	0.719	
			132072	1720	50	0	23.0	21.85			
			132072	1720	50	24	23.0	21.84			
			132322	1745	50	0	23.0	21.86			
			132322	1745	50	24	23.0	21.79			
			132322	1745	50	49	23.0	21.76			
			132572	1770	50	0	23.0	21.83			
			132572	1770	50	24	23.0	21.79			
			132572	1770	50	49	23.0	21.70			
132322	1745	100	0	23.0	21.86	0.564	0.733				
132072	1720	100	0	23.0	21.84						
132572	1770	100	0	23.0	21.77						
Rear	9	QPSK	132072	1720	1	0	24.0	22.92			
			132072	1720	1	99	24.0	22.86			
			132072	1720	1	49	24.0	22.79			
			132322	1745	1	0	24.0	23.02	0.456	0.571	
			132322	1745	1	49	24.0	22.85			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.87			
			132572	1770	1	49	24.0	22.69			
			132572	1770	1	99	24.0	22.56			
			132072	1720	50	49	23.0	21.89	0.326	0.421	
			132072	1720	50	0	23.0	21.85			
			132072	1720	50	24	23.0	21.84			
			132322	1745	50	0	23.0	21.86			
			132322	1745	50	24	23.0	21.79			
			132322	1745	50	49	23.0	21.76			
			132572	1770	50	0	23.0	21.83			
			132572	1770	50	24	23.0	21.79			
			132572	1770	50	49	23.0	21.70			
132322	1745	100	0	23.0	21.86						
132072	1720	100	0	23.0	21.84						
132572	1770	100	0	23.0	21.77						

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Rear tilt (Edge4 side)	9	QPSK	132072	1720	1	0	24.0	22.92	0.743	0.953	
			132072	1720	1	99	24.0	22.86			
			132072	1720	1	49	24.0	22.79			
			132322	1745	1	0	24.0	23.02	0.769	0.964	25
			132322	1745	1	49	24.0	22.85			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.87	0.720	0.934	
			132572	1770	1	49	24.0	22.69			
			132572	1770	1	99	24.0	22.56			
			132072	1720	50	49	23.0	21.89	0.591	0.763	
			132072	1720	50	0	23.0	21.85			
			132072	1720	50	24	23.0	21.84			
			132322	1745	50	0	23.0	21.86			
			132322	1745	50	24	23.0	21.79			
			132322	1745	50	49	23.0	21.76			
			132572	1770	50	0	23.0	21.83			
			132572	1770	50	24	23.0	21.79			
			132572	1770	50	49	23.0	21.70			
			132322	1745	100	0	23.0	21.86	0.568	0.738	
			132072	1720	100	0	23.0	21.84			
132572	1770	100	0	23.0	21.77						
Rear tilt (Edge1 side)	0	QPSK	132072	1720	1	0	24.0	22.92	0.605	0.776	
			132072	1720	1	99	24.0	22.86			
			132072	1720	1	49	24.0	22.79			
			132322	1745	1	0	24.0	23.02	0.655	0.821	
			132322	1745	1	49	24.0	22.85			
			132322	1745	1	99	24.0	22.84			
			132572	1770	1	0	24.0	22.87	0.671	0.870	
			132572	1770	1	49	24.0	22.69			
			132572	1770	1	99	24.0	22.56			
			132072	1720	50	49	23.0	21.89	0.486	0.628	
			132072	1720	50	0	23.0	21.85			
			132072	1720	50	24	23.0	21.84			
			132322	1745	50	0	23.0	21.86			
			132322	1745	50	24	23.0	21.79			
			132322	1745	50	49	23.0	21.76			
			132572	1770	50	0	23.0	21.83			
			132572	1770	50	24	23.0	21.79			
			132572	1770	50	49	23.0	21.70			
			132322	1745	100	0	23.0	21.86	0.520	0.676	
			132072	1720	100	0	23.0	21.84			
132572	1770	100	0	23.0	21.77						

Reduction power

Test Position	Dist. (mm)	Modulation	UL CH #	Freq. (MHz)	UL RB Allocation	UL RB Start	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas. Avg	Meas.	Scaled	
Edge 4	0	QPSK	132072	1720	1	0	18.8	18.09	0.856	1.008	26
			132072	1720	1	99	18.8	17.98			
			132072	1720	1	49	18.8	17.91			
			132322	1745	1	0	18.8	18.10	0.828	0.973	
			132322	1745	1	49	18.8	17.94			
			132322	1745	1	99	18.8	17.93			
			132572	1770	1	0	18.8	18.07	0.737	0.872	
			132572	1770	1	49	18.8	17.92			
			132572	1770	1	99	18.8	17.80			
			132072	1720	50	49	18.8	18.07	0.830	0.982	
			132072	1720	50	0	18.8	18.02			
			132072	1720	50	24	18.8	17.96			
			132322	1745	50	0	18.8	18.02	0.811	0.971	
			132322	1745	50	24	18.8	18.00			
			132322	1745	50	49	18.8	17.95			
			132572	1770	50	0	18.8	17.98	0.715	0.864	
			132572	1770	50	24	18.8	17.96			
			132572	1770	50	49	18.8	17.89			
Rear	0	QPSK	132072	1720	1	0	18.8	18.09			
			132072	1720	1	99	18.8	17.98			
			132072	1720	1	49	18.8	17.91			
			132322	1745	1	0	18.8	18.10	0.353	0.415	
			132322	1745	1	49	18.8	17.94			
			132322	1745	1	99	18.8	17.93			
			132572	1770	1	0	18.8	18.07			
			132572	1770	1	49	18.8	17.92			
			132572	1770	1	99	18.8	17.80			
			132072	1720	50	49	18.8	18.07	0.336	0.398	
			132072	1720	50	0	18.8	18.02			
			132072	1720	50	24	18.8	17.96			
			132322	1745	50	0	18.8	18.02			
			132322	1745	50	24	18.8	18.00			
			132322	1745	50	49	18.8	17.95			
			132572	1770	50	0	18.8	17.98			
			132572	1770	50	24	18.8	17.96			
			132572	1770	50	49	18.8	17.89			
Rear tilt (Edge4 side)	0	QPSK	132072	1720	1	0	18.8	18.09			
			132072	1720	1	99	18.8	17.98			
			132072	1720	1	49	18.8	17.91			
			132322	1745	1	0	18.8	18.10	0.676	0.794	
			132322	1745	1	49	18.8	17.94			
			132322	1745	1	99	18.8	17.93			
			132572	1770	1	0	18.8	18.07			
			132572	1770	1	49	18.8	17.92			
			132572	1770	1	99	18.8	17.80			
			132072	1720	50	49	18.8	18.07	0.637	0.754	
			132072	1720	50	0	18.8	18.02			
			132072	1720	50	24	18.8	17.96			
			132322	1745	50	0	18.8	18.02			
			132322	1745	50	24	18.8	18.00			
			132322	1745	50	49	18.8	17.95			
			132572	1770	50	0	18.8	17.98			
			132572	1770	50	24	18.8	17.96			
			132572	1770	50	49	18.8	17.89			
132322	1745	100	0	18.8	18.02						
132072	1720	100	0	18.8	17.96						
132572	1770	100	0	18.8	17.94						

10.14. Summary of Highest SAR Values

Results for the highest scaled SAR values in each frequency band and mode

Technology/ Band	Test configuration				Mode	Freq. (MHz)	Power (dBm)	1g SAR (W/kg)
	Transmit Antenna	Exposure	Position	Dist. (mm)				
WCDMA/ Band 2	WWAN Main	Body	Edge4	0	RMC 12.2k	1907.6	18.91	1.192
WCDMA/ Band 4	WWAN Main	Body	Rear tilt (Edge4 side)	9	RMC 12.2k	1732.6	22.84	0.952
WCDMA/ Band 5	WWAN Main	Body	Edge4	0	RMC 12.2k	836.6	17.75	0.877
LTE/ Band 2	WWAN Main	Body	Edge4	0	QPSK	1900	18.51	1.159
LTE/ Band 5	WWAN Main	Body	Edge4	0	QPSK	836.5	17.98	1.121
LTE/ Band 7	WWAN Main	Body	Edge4	0	QPSK	2560	17.11	1.010
LTE/ Band 12	WWAN Main	Body	Edge4	0	QPSK	711	19.40	1.188
LTE/ Band 13	WWAN Main	Body	Edge4	0	QPSK	782	18.51	1.184
LTE/ Band 14	WWAN Main	Body	Edge4	0	QPSK	793	18.44	1.183
LTE/ Band 26	WWAN Main	Body	Edge4	0	QPSK	841.5	18.26	1.207
LTE/ Band 41	WWAN Main	Body	Edge4	0	QPSK	2636.5	18.53	0.902
LTE/ Band 48	WWAN Main	Body	Edge4	0	QPSK	3646.7	11.60	0.919
LTE/ Band 66	WWAN Main	Body	Edge4	0	QPSK	1720	18.09	1.008

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		Second Repeated		Third Repeated
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio	Measured SAR (W/kg)	Largest to Smallest SAR Ratio	Measured SAR (W/kg)
700	LTE Band 12	Body	Edge 4	Yes	0.944	0.924	1.022	N/A	N/A	N/A
	LTE Band 13	Body	Edge 4	Yes	1.010	0.993	1.017	N/A	N/A	N/A
850	WCDMA Band 5	Body	Edge 4	Yes	0.847	0.839	1.010	N/A	N/A	N/A
	LTE Band 5	Body	Edge 4	Yes	0.950	0.950	1.000	N/A	N/A	N/A
	LTE Band 14	Body	Edge 4	Yes	0.993	0.963	1.031	N/A	N/A	N/A
	LTE Band 26	Body	Edge 4	Yes	0.995	0.993	1.002	N/A	N/A	N/A
1700	WCDMA Band 4	Body	Edge 4	No	0.729	N/A	N/A	N/A	N/A	N/A
	LTE Band 66	Body	Edge 4	Yes	0.856	0.850	1.007	N/A	N/A	N/A
1900	WCDMA Band 2	Body	Edge 4	Yes	1.090	1.080	1.009	N/A	N/A	N/A
	LTE Band 2	Body	Edge 4	Yes	0.944	0.939	1.005	N/A	N/A	N/A
2500	LTE Band 7	Body	Edge 4	Yes	0.842	0.817	1.031	N/A	N/A	N/A
2600	LTE Band 41	Body	Edge 4	No	0.773	N/A	N/A	N/A	N/A	N/A
3600	LTE Band 48	Body	Edge 4	Yes	0.878	0.852	1.031	N/A	N/A	N/A

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

RF Exposure Condition	Item	Capable Transmit Configurations				
Standalone	1	W-CDMA	+	WLAN2.4GHz(SISO)		
	2	W-CDMA	+	WLAN5GHz(SISO)		
	3	W-CDMA	+	WLAN2.4GHz(MIMO)		
	4	W-CDMA	+	WLAN5GHz(MIMO)		
	5	W-CDMA	+	BT		
	6	W-CDMA	+	WLAN2.4GHz(SISO)	+	BT
	7	W-CDMA	+	WLAN5GHz(SISO)	+	BT
	8	LTE	+	WLAN2.4GHz(SISO)		
	9	LTE	+	WLAN5GHz(SISO)		
	10	LTE	+	WLAN2.4GHz(MIMO)		
	11	LTE	+	WLAN5GHz(MIMO)		
	12	LTE	+	BT		
	13	LTE	+	WLAN2.4GHz(SISO)	+	BT
	14	LTE	+	WLAN5GHz(SISO)	+	BT

Notes:
 All WLAN 1-g SAR values were taken from results recorded in SAR report for WLAN (FCC ID ACJ9TGWL20B or ISED certification Number 216H-CFWL20B).

12.1. Simultaneous transmission SAR test exclusion considerations

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

R_i 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 DASY5 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.

DASY5 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 DASY5= 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.

12.2. Sum of the SAR for WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B2	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.435	0.462	0.344		1.241	
	0.435	0.462		0.079	0.976	
Edge4	0.523	0.084	0.010		0.617	
	0.523	0.084		0.004	0.611	
Edge4 Reduction	1.192	0.084	0.010		1.286	
	1.192	0.084		0.004	1.280	
Rear	0.699	0.120	0.852		1.671	Refer to 12.6
	0.699	0.120		0.244	1.063	
Rear Reduction	0.446	0.120	0.852		1.418	
	0.446	0.120		0.244	0.810	
Rear tilt (Edge 4 side)	1.093	0.055	0.005		1.153	
	1.093	0.055		0.002	1.150	
Rear tilt (Edge 4 side) Reduction	0.795	0.055	0.005		0.855	
	0.795	0.055		0.002	0.852	
Rear tilt (Edge 1 side)	0.853	0.240	0.938		2.031	Refer to 12.6
	0.853	0.240		0.266	1.359	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B4	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.381	0.462	0.344		1.187	
	0.381	0.462		0.079	0.922	
Edge4	0.827	0.084	0.010		0.921	
	0.827	0.084		0.004	0.915	
Edge4 Reduction	0.767	0.084	0.010		0.861	
	0.767	0.084		0.004	0.855	
Rear	0.649	0.120	0.852		1.621	Refer to 12.6
	0.649	0.120		0.244	1.013	
Rear Reduction	0.348	0.120	0.852		1.320	
	0.348	0.120		0.244	0.712	
Rear tilt (Edge 4 side)	0.952	0.055	0.005		1.012	
	0.952	0.055		0.002	1.009	
Rear tilt (Edge 4 side) Reduction	0.728	0.055	0.005		0.788	
	0.728	0.055		0.002	0.785	
Rear tilt (Edge 1 side)	0.926	0.240	0.938		2.104	Refer to 12.6
	0.926	0.240		0.266	1.432	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B5	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.147	0.462	0.344		0.953	
	0.147	0.462		0.079	0.688	
Edge4	0.608	0.084	0.010		0.702	
	0.608	0.084		0.004	0.696	
Edge4 Reduction	0.877	0.084	0.010		0.971	
	0.877	0.084		0.004	0.965	
Rear	0.664	0.120	0.852		1.636	Refer to 12.6
	0.664	0.120		0.244	1.028	
Rear Reduction	0.291	0.120	0.852		1.263	
	0.291	0.120		0.244	0.655	
Rear tilt (Edge 4 side)	0.796	0.055	0.005		0.856	
	0.796	0.055		0.002	0.853	
Rear tilt (Edge 4 side) Reduction	0.406	0.055	0.005		0.466	
	0.406	0.055		0.002	0.463	
Rear tilt (Edge 1 side)	0.685	0.240	0.938		1.863	Refer to 12.6
	0.685	0.240		0.266	1.191	

Sum of the SAR for LTE B2 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B2	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.536	0.462	0.344		1.342	
	0.536	0.462		0.079	1.077	
Edge4	0.573	0.084	0.010		0.667	
	0.573	0.084		0.004	0.661	
Edge4 Reduction	1.159	0.084	0.010		1.253	
	1.159	0.084		0.004	1.247	
Rear	0.573	0.120	0.852		1.545	
	0.573	0.120		0.244	0.937	
Rear Reduction	0.396	0.120	0.852		1.368	
	0.396	0.120		0.244	0.760	
Rear tilt (Edge 4 side)	0.985	0.055	0.005		1.045	
	0.985	0.055		0.002	1.042	
Rear tilt (Edge 4 side) Reduction	0.745	0.055	0.005		0.805	
	0.745	0.055		0.002	0.802	
Rear tilt (Edge 1 side)	0.743	0.240	0.938		1.921	Refer to 12.6
	0.743	0.240		0.266	1.249	

Sum of the SAR for LTE B5 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B5	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.161	0.462	0.344		0.967	
	0.161	0.462		0.079	0.702	
Edge4	0.433	0.084	0.010		0.527	
	0.433	0.084		0.004	0.521	
Edge4 Reduction	1.121	0.084	0.010		1.215	
	1.121	0.084		0.004	1.209	
Rear	0.666	0.120	0.852		1.638	Refer to 12.6
	0.666	0.120		0.244	1.030	
Rear Reduction	0.410	0.120	0.852		1.382	
	0.410	0.120		0.244	0.774	
Rear tilt (Edge 4 side)	0.756	0.055	0.005		0.816	
	0.756	0.055		0.002	0.813	
Rear tilt (Edge 4 side) Reduction	0.576	0.055	0.005		0.636	
	0.576	0.055		0.002	0.633	
Rear tilt (Edge 1 side)	0.393	0.240	0.938		1.571	
	0.393	0.240		0.266	0.899	

Sum of the SAR for LTE B7 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B7	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.209	0.462	0.344		1.015	
	0.209	0.462		0.079	0.750	
Edge4	0.497	0.084	0.010		0.591	
	0.497	0.084		0.004	0.585	
Edge4 Reduction	1.010	0.084	0.010		1.104	
	1.010	0.084		0.004	1.098	
Rear	0.492	0.120	0.852		1.464	
	0.492	0.120		0.244	0.856	
Rear Reduction	0.388	0.120	0.852		1.360	
	0.388	0.120		0.244	0.752	
Rear tilt (Edge 4 side)	0.700	0.055	0.005		0.760	
	0.700	0.055		0.002	0.757	
Rear tilt (Edge 4 side) Reduction	0.494	0.055	0.005		0.554	
	0.494	0.055		0.002	0.551	
Rear tilt (Edge 1 side)	0.644	0.240	0.938		1.822	Refer to 12.6
	0.644	0.240		0.266	1.150	

Sum of the SAR for LTE B12 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B12	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.160	0.462	0.344		0.966	
	0.160	0.462		0.079	0.701	
Edge4	0.153	0.084	0.010		0.247	
	0.153	0.084		0.004	0.241	
Edge4 Reduction	1.188	0.084	0.010		1.282	
	1.188	0.084		0.004	1.276	
Rear	0.297	0.120	0.852		1.269	
	0.297	0.120		0.244	0.661	
Rear Reduction	0.319	0.120	0.852		1.291	
	0.319	0.120		0.244	0.683	
Rear tilt (Edge 4 side)	0.431	0.055	0.005		0.491	
	0.431	0.055		0.002	0.488	
Rear tilt (Edge 4 side) Reduction	0.546	0.055	0.005		0.606	
	0.546	0.055		0.002	0.603	
Rear tilt (Edge 1 side)	0.441	0.240	0.938		1.619	Refer to 12.6
	0.441	0.240		0.266	0.947	

Sum of the SAR for LTE B13 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B13	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.279	0.462	0.344		1.085	
	0.279	0.462		0.079	0.820	
Edge4	0.274	0.084	0.010		0.368	
	0.274	0.084		0.004	0.362	
Edge4 Reduction	1.184	0.084	0.010		1.278	
	1.184	0.084		0.004	1.272	
Rear	0.480	0.120	0.852		1.452	
	0.480	0.120		0.244	0.844	
Rear Reduction	0.386	0.120	0.852		1.358	
	0.386	0.120		0.244	0.750	
Rear tilt (Edge 4 side)	0.693	0.055	0.005		0.753	
	0.693	0.055		0.002	0.750	
Rear tilt (Edge 4 side) Reduction	0.636	0.055	0.005		0.696	
	0.636	0.055		0.002	0.693	
Rear tilt (Edge 1 side)	0.658	0.240	0.938		1.836	Refer to 12.6
	0.658	0.240		0.266	1.164	

Sum of the SAR for LTE B14 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B14	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.222	0.462	0.344		1.028	
	0.222	0.462		0.079	0.763	
Edge4	0.344	0.084	0.010		0.438	
	0.344	0.084		0.004	0.432	
Edge4 Reduction	1.183	0.084	0.010		1.277	
	1.183	0.084		0.004	1.271	
Rear	0.507	0.120	0.852		1.479	
	0.507	0.120		0.244	0.871	
Rear Reduction	0.423	0.120	0.852		1.395	
	0.423	0.120		0.244	0.787	
Rear tilt (Edge 4 side)	0.745	0.055	0.005		0.805	
	0.745	0.055		0.002	0.802	
Rear tilt (Edge 4 side) Reduction	0.643	0.055	0.005		0.703	
	0.643	0.055		0.002	0.700	
Rear tilt (Edge 1 side)	0.713	0.240	0.938		1.891	Refer to 12.6
	0.713	0.240		0.266	1.219	

Sum of the SAR for LTE B26 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B26	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.232	0.462	0.344		1.038	
	0.232	0.462		0.079	0.773	
Edge4	0.668	0.084	0.010		0.762	
	0.668	0.084		0.004	0.756	
Edge4 Reduction	1.207	0.084	0.010		1.301	
	1.207	0.084		0.004	1.295	
Rear	0.593	0.120	0.852		1.565	
	0.593	0.120		0.244	0.957	
Rear Reduction	0.415	0.120	0.852		1.387	
	0.415	0.120		0.244	0.779	
Rear tilt (Edge 4 side)	0.935	0.055	0.005		0.995	
	0.935	0.055		0.002	0.992	
Rear tilt (Edge 4 side) Reduction	0.580	0.055	0.005		0.640	
	0.580	0.055		0.002	0.637	
Rear tilt (Edge 1 side)	0.710	0.240	0.938		1.888	Refer to 12.6
	0.710	0.240		0.266	1.216	

Sum of the SAR for LTE B41 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B41	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.058	0.462	0.344		0.864	
	0.058	0.462		0.079	0.599	
Edge4	0.390	0.084	0.010		0.484	
	0.390	0.084		0.004	0.478	
Edge4 Reduction	0.902	0.084	0.010		0.996	
	0.902	0.084		0.004	0.990	
Rear	0.356	0.120	0.852		1.328	
	0.356	0.120		0.244	0.720	
Rear Reduction	0.296	0.120	0.852		1.268	
	0.296	0.120		0.244	0.660	
Rear tilt (Edge 4 side)	0.540	0.055	0.005		0.600	
	0.540	0.055		0.002	0.597	
Rear tilt (Edge 4 side) Reduction	0.463	0.055	0.005		0.523	
	0.463	0.055		0.002	0.520	
Rear tilt (Edge 1 side)	0.412	0.240	0.938		1.590	Refer to 12.6
	0.412	0.240		0.266	0.918	

Sum of the SAR for LTE B48 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B48	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.094	0.462	0.344		0.900	
	0.094	0.462		0.079	0.635	
Edge4	0.507	0.084	0.010		0.601	
	0.507	0.084		0.004	0.595	
Edge4 Reduction	0.919	0.084	0.010		1.013	
	0.919	0.084		0.004	1.007	
Rear	0.192	0.120	0.852		1.164	
	0.192	0.120		0.244	0.556	
Rear Reduction	0.071	0.120	0.852		1.043	
	0.071	0.120		0.244	0.435	
Rear tilt (Edge 4 side)	0.434	0.055	0.005		0.494	
	0.434	0.055		0.002	0.491	
Rear tilt (Edge 4 side) Reduction	0.185	0.055	0.005		0.245	
	0.185	0.055		0.002	0.242	
Rear tilt (Edge 1 side)	0.347	0.240	0.938		1.525	
	0.347	0.240		0.266	0.853	

Sum of the SAR for LTE B66 & WLAN Ant 1 2.4GHz / WLAN Ant 2 2.4GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B66	WLAN Ant 1 2.4GHz	WLAN Ant 2 2.4GHz	BT		
Edge1	0.342	0.462	0.344		1.148	
	0.342	0.462		0.079	0.883	
Edge4	0.941	0.084	0.010		1.035	
	0.941	0.084		0.004	1.029	
Edge4 Reduction	1.008	0.084	0.010		1.102	
	1.008	0.084		0.004	1.096	
Rear	0.571	0.120	0.852		1.543	
	0.571	0.120		0.244	0.935	
Rear Reduction	0.415	0.120	0.852		1.387	
	0.415	0.120		0.244	0.779	
Rear tilt (Edge 4 side)	0.964	0.055	0.005		1.024	
	0.964	0.055		0.002	1.021	
Rear tilt (Edge 4 side) Reduction	0.794	0.055	0.005		0.854	
	0.794	0.055		0.002	0.851	
Rear tilt (Edge 1 side)	0.870	0.240	0.938		2.048	Refer to 12.6
	0.870	0.240		0.266	1.376	

12.3. Sum of the SAR for WLAN Ant 1 5.3GHz / WLAN Ant 2 5.3GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B2	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.435	0.439	0.121		0.995	
	0.435	0.439		0.079	0.953	
Edge4	0.523	0.029	0.000		0.552	
	0.523	0.029		0.004	0.556	
Edge4 Reduction	1.192	0.029	0.000		1.221	
	1.192	0.029		0.004	1.225	
Rear	0.699	0.122	0.546		1.367	
	0.699	0.122		0.244	1.065	
Rear Reduction	0.446	0.122	0.546		1.114	
	0.446	0.122		0.244	0.812	
Rear tilt (Edge 4 side)	1.093	0.054	0.019		1.166	
	1.093	0.054		0.002	1.149	
Rear tilt (Edge 4 side) Reduction	0.795	0.054	0.019		0.868	
	0.795	0.054		0.002	0.851	
Rear tilt (Edge 1 side)	0.853	0.238	0.830		1.921	Refer to 12.6
	0.853	0.238		0.266	1.357	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B4	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.381	0.439	0.121		0.941	
	0.381	0.439		0.079	0.899	
Edge4	0.827	0.029	0.000		0.856	
	0.827	0.029		0.004	0.860	
Edge4 Reduction	0.767	0.029	0.000		0.796	
	0.767	0.029		0.004	0.800	
Rear	0.649	0.122	0.546		1.317	
	0.649	0.122		0.244	1.015	
Rear Reduction	0.348	0.122	0.546		1.016	
	0.348	0.122		0.244	0.714	
Rear tilt (Edge 4 side)	0.952	0.054	0.019		1.025	
	0.952	0.054		0.002	1.008	
Rear tilt (Edge 4 side) Reduction	0.728	0.054	0.019		0.801	
	0.728	0.054		0.002	0.784	
Rear tilt (Edge 1 side)	0.926	0.238	0.830		1.994	Refer to 12.6
	0.926	0.238		0.266	1.430	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B5	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.147	0.439	0.121		0.707	
	0.147	0.439		0.079	0.665	
Edge4	0.608	0.029	0.000		0.637	
	0.608	0.029		0.004	0.641	
Edge4 Reduction	0.877	0.029	0.000		0.906	
	0.877	0.029		0.004	0.910	
Rear	0.664	0.122	0.546		1.332	
	0.664	0.122		0.244	1.030	
Rear Reduction	0.291	0.122	0.546		0.959	
	0.291	0.122		0.244	0.657	
Rear tilt (Edge 4 side)	0.796	0.054	0.019		0.869	
	0.796	0.054		0.002	0.852	
Rear tilt (Edge 4 side) Reduction	0.406	0.054	0.019		0.479	
	0.406	0.054		0.002	0.462	
Rear tilt (Edge 1 side)	0.685	0.238	0.830		1.753	Refer to 12.6
	0.685	0.238		0.266	1.189	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B2	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.536	0.439	0.121		1.096	
	0.536	0.439		0.079	1.054	
Edge4	0.573	0.029	0.000		0.602	
	0.573	0.029		0.004	0.606	
Edge4 Reduction	1.159	0.029	0.000		1.188	
	1.159	0.029		0.004	1.192	
Rear	0.573	0.122	0.546		1.241	
	0.573	0.122		0.244	0.939	
Rear Reduction	0.396	0.122	0.546		1.064	
	0.396	0.122		0.244	0.762	
Rear tilt (Edge 4 side)	0.985	0.054	0.019		1.058	
	0.985	0.054		0.002	1.041	
Rear tilt (Edge 4 side) Reduction	0.745	0.054	0.019		0.818	
	0.745	0.054		0.002	0.801	
Rear tilt (Edge 1 side)	0.743	0.238	0.830		1.811	Refer to 12.6
	0.743	0.238		0.266	1.247	

Sum of the SAR for LTE B5 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B5	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.161	0.439	0.121		0.721	
	0.161	0.439		0.079	0.679	
Edge4	0.433	0.029	0.000		0.462	
	0.433	0.029		0.004	0.466	
Edge4 Reduction	1.121	0.029	0.000		1.150	
	1.121	0.029		0.004	1.154	
Rear	0.666	0.122	0.546		1.334	
	0.666	0.122		0.244	1.032	
Rear Reduction	0.410	0.122	0.546		1.078	
	0.410	0.122		0.244	0.776	
Rear tilt (Edge 4 side)	0.756	0.054	0.019		0.829	
	0.756	0.054		0.002	0.812	
Rear tilt (Edge 4 side) Reduction	0.576	0.054	0.019		0.649	
	0.576	0.054		0.002	0.632	
Rear tilt (Edge 1 side)	0.393	0.238	0.830		1.461	
	0.393	0.238		0.266	0.897	

Sum of the SAR for LTE B7 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B7	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.209	0.439	0.121		0.769	
	0.209	0.439		0.079	0.727	
Edge4	0.497	0.029	0.000		0.526	
	0.497	0.029		0.004	0.530	
Edge4 Reduction	1.010	0.029	0.000		1.039	
	1.010	0.029		0.004	1.043	
Rear	0.492	0.122	0.546		1.160	
	0.492	0.122		0.244	0.858	
Rear Reduction	0.388	0.122	0.546		1.056	
	0.388	0.122		0.244	0.754	
Rear tilt (Edge 4 side)	0.700	0.054	0.019		0.773	
	0.700	0.054		0.002	0.756	
Rear tilt (Edge 4 side) Reduction	0.494	0.054	0.019		0.567	
	0.494	0.054		0.002	0.550	
Rear tilt (Edge 1 side)	0.644	0.238	0.830		1.712	Refer to 12.6
	0.644	0.238		0.266	1.148	

Sum of the SAR for LTE B12 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B12	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.160	0.439	0.121		0.720	
	0.160	0.439		0.079	0.678	
Edge4	0.153	0.029	0.000		0.182	
	0.153	0.029		0.004	0.186	
Edge4 Reduction	1.188	0.029	0.000		1.217	
	1.188	0.029		0.004	1.221	
Rear	0.297	0.122	0.546		0.965	
	0.297	0.122		0.244	0.663	
Rear Reduction	0.319	0.122	0.546		0.987	
	0.319	0.122		0.244	0.685	
Rear tilt (Edge 4 side)	0.431	0.054	0.019		0.504	
	0.431	0.054		0.002	0.487	
Rear tilt (Edge 4 side) Reduction	0.546	0.054	0.019		0.619	
	0.546	0.054		0.002	0.602	
Rear tilt (Edge 1 side)	0.441	0.238	0.830		1.509	
	0.441	0.238		0.266	0.945	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B13	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.279	0.439	0.121		0.839	
	0.279	0.439		0.079	0.797	
Edge4	0.274	0.029	0.000		0.303	
	0.274	0.029		0.004	0.307	
Edge4 Reduction	1.184	0.029	0.000		1.213	
	1.184	0.029		0.004	1.217	
Rear	0.480	0.122	0.546		1.148	
	0.480	0.122		0.244	0.846	
Rear Reduction	0.386	0.122	0.546		1.054	
	0.386	0.122		0.244	0.752	
Rear tilt (Edge 4 side)	0.693	0.054	0.019		0.766	
	0.693	0.054		0.002	0.749	
Rear tilt (Edge 4 side) Reduction	0.636	0.054	0.019		0.709	
	0.636	0.054		0.002	0.692	
Rear tilt (Edge 1 side)	0.658	0.238	0.830		1.726	Refer to 12.6
	0.658	0.238		0.266	1.162	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B14	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.222	0.439	0.121		0.782	
	0.222	0.439		0.079	0.740	
Edge4	0.344	0.029	0.000		0.373	
	0.344	0.029		0.004	0.377	
Edge4 Reduction	1.183	0.029	0.000		1.212	
	1.183	0.029		0.004	1.216	
Rear	0.507	0.122	0.546		1.175	
	0.507	0.122		0.244	0.873	
Rear Reduction	0.423	0.122	0.546		1.091	
	0.423	0.122		0.244	0.789	
Rear tilt (Edge 4 side)	0.745	0.054	0.019		0.818	
	0.745	0.054		0.002	0.801	
Rear tilt (Edge 4 side) Reduction	0.643	0.054	0.019		0.716	
	0.643	0.054		0.002	0.699	
Rear tilt (Edge 1 side)	0.713	0.238	0.830		1.781	Refer to 12.6
	0.713	0.238		0.266	1.217	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B26	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.232	0.439	0.121		0.792	
	0.232	0.439		0.079	0.750	
Edge4	0.668	0.029	0.000		0.697	
	0.668	0.029		0.004	0.701	
Edge4 Reduction	1.207	0.029	0.000		1.236	
	1.207	0.029		0.004	1.240	
Rear	0.593	0.122	0.546		1.261	
	0.593	0.122		0.244	0.959	
Rear Reduction	0.415	0.122	0.546		1.083	
	0.415	0.122		0.244	0.781	
Rear tilt (Edge 4 side)	0.935	0.054	0.019		1.008	
	0.935	0.054		0.002	0.991	
Rear tilt (Edge 4 side) Reduction	0.580	0.054	0.019		0.653	
	0.580	0.054		0.002	0.636	
Rear tilt (Edge 1 side)	0.710	0.238	0.830		1.778	Refer to 12.6
	0.710	0.238		0.266	1.214	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B41	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.058	0.439	0.121		0.618	
	0.058	0.439		0.079	0.576	
Edge4	0.390	0.029	0.000		0.419	
	0.390	0.029		0.004	0.423	
Edge4 Reduction	0.902	0.029	0.000		0.931	
	0.902	0.029		0.004	0.935	
Rear	0.356	0.122	0.546		1.024	
	0.356	0.122		0.244	0.722	
Rear Reduction	0.296	0.122	0.546		0.964	
	0.296	0.122		0.244	0.662	
Rear tilt (Edge 4 side)	0.540	0.054	0.019		0.613	
	0.540	0.054		0.002	0.596	
Rear tilt (Edge 4 side) Reduction	0.463	0.054	0.019		0.536	
	0.463	0.054		0.002	0.519	
Rear tilt (Edge 1 side)	0.412	0.238	0.830		1.480	
	0.412	0.238		0.266	0.916	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B48	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.094	0.439	0.121		0.654	
	0.094	0.439		0.079	0.612	
Edge4	0.507	0.029	0.000		0.536	
	0.507	0.029		0.004	0.540	
Edge4 Reduction	0.919	0.029	0.000		0.948	
	0.919	0.029		0.004	0.952	
Rear	0.192	0.122	0.546		0.860	
	0.192	0.122		0.244	0.558	
Rear Reduction	0.071	0.122	0.546		0.739	
	0.071	0.122		0.244	0.437	
Rear tilt (Edge 4 side)	0.434	0.054	0.019		0.507	
	0.434	0.054		0.002	0.490	
Rear tilt (Edge 4 side) Reduction	0.185	0.054	0.019		0.258	
	0.185	0.054		0.002	0.241	
Rear tilt (Edge 1 side)	0.347	0.238	0.830		1.415	
	0.347	0.238		0.266	0.851	

Sum of the SAR for LTE B66 & WLAN Ant 1 5.2/5.3GHz / WLAN Ant 2 5.2/5.3GHz / BT

Test Position	Mode				Sum of SAR (1g/W/kg)	Remarks
	LTE B66	WLAN Ant 1 5.2/5.3GHz	WLAN Ant 2 5.2/5.3GHz	BT		
Edge1	0.342	0.439	0.121		0.902	
	0.342	0.439		0.079	0.860	
Edge4	0.941	0.029	0.000		0.970	
	0.941	0.029		0.004	0.974	
Edge4 Reduction	1.008	0.029	0.000		1.037	
	1.008	0.029		0.004	1.041	
Rear	0.571	0.122	0.546		1.239	
	0.571	0.122		0.244	0.937	
Rear Reduction	0.415	0.122	0.546		1.083	
	0.415	0.122		0.244	0.781	
Rear tilt (Edge 4 side)	0.964	0.054	0.019		1.037	
	0.964	0.054		0.002	1.020	
Rear tilt (Edge 4 side) Reduction	0.794	0.054	0.019		0.867	
	0.794	0.054		0.002	0.850	
Rear tilt (Edge 1 side)	0.870	0.238	0.830		1.938	Refer to 12.6
	0.870	0.238		0.266	1.374	

12.4. Sum of the SAR for WLAN Ant 1 5.5GHz / WLAN Ant 2 5.5GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B2	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.435	0.452	0.167		1.054	
	0.435	0.452		0.079	0.966	
Edge4	0.523	0.018	0.000		0.541	
	0.523	0.018		0.004	0.545	
Edge4 Reduction	1.192	0.018	0.000		1.210	
	1.192	0.018		0.004	1.214	
Rear	0.699	0.198	0.582		1.479	
	0.699	0.198		0.244	1.141	
Rear Reduction	0.446	0.198	0.582		1.226	
	0.446	0.198		0.244	0.888	
Rear tilt (Edge 4 side)	1.093	0.078	0.025		1.196	
	1.093	0.078		0.002	1.173	
Rear tilt (Edge 4 side) Reduction	0.795	0.078	0.025		0.898	
	0.795	0.078		0.002	0.875	
Rear tilt (Edge 1 side)	0.853	0.313	0.808		1.974	Refer to 12.6
	0.853	0.313		0.266	1.432	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B4	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.381	0.452	0.167		1.000	
	0.381	0.452		0.079	0.912	
Edge4	0.827	0.018	0.000		0.845	
	0.827	0.018		0.004	0.849	
Edge4 Reduction	0.767	0.018	0.000		0.785	
	0.767	0.018		0.004	0.789	
Rear	0.649	0.198	0.582		1.429	
	0.649	0.198		0.244	1.091	
Rear Reduction	0.348	0.198	0.582		1.128	
	0.348	0.198		0.244	0.790	
Rear tilt (Edge 4 side)	0.952	0.078	0.025		1.055	
	0.952	0.078		0.002	1.032	
Rear tilt (Edge 4 side) Reduction	0.728	0.078	0.025		0.831	
	0.728	0.078		0.002	0.808	
Rear tilt (Edge 1 side)	0.926	0.313	0.808		2.047	Refer to 12.6
	0.926	0.313		0.266	1.505	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B5	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.147	0.452	0.167		0.766	
	0.147	0.452		0.079	0.678	
Edge4	0.608	0.018	0.000		0.626	
	0.608	0.018		0.004	0.630	
Edge4 Reduction	0.877	0.018	0.000		0.895	
	0.877	0.018		0.004	0.899	
Rear	0.664	0.198	0.582		1.444	
	0.664	0.198		0.244	1.106	
Rear Reduction	0.291	0.198	0.582		1.071	
	0.291	0.198		0.244	0.733	
Rear tilt (Edge 4 side)	0.796	0.078	0.025		0.899	
	0.796	0.078		0.002	0.876	
Rear tilt (Edge 4 side) Reduction	0.406	0.078	0.025		0.509	
	0.406	0.078		0.002	0.486	
Rear tilt (Edge 1 side)	0.685	0.313	0.808		1.806	Refer to 12.6
	0.685	0.313		0.266	1.264	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B2	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.536	0.452	0.167		1.155	
	0.536	0.452		0.079	1.067	
Edge4	0.573	0.018	0.000		0.591	
	0.573	0.018		0.004	0.595	
Edge4 Reduction	1.159	0.018	0.000		1.177	
	1.159	0.018		0.004	1.181	
Rear	0.573	0.198	0.582		1.353	
	0.573	0.198		0.244	1.015	
Rear Reduction	0.396	0.198	0.582		1.176	
	0.396	0.198		0.244	0.838	
Rear tilt (Edge 4 side)	0.985	0.078	0.025		1.088	
	0.985	0.078		0.002	1.065	
Rear tilt (Edge 4 side) Reduction	0.745	0.078	0.025		0.848	
	0.745	0.078		0.002	0.825	
Rear tilt (Edge 1 side)	0.743	0.313	0.808		1.864	Refer to 12.6
	0.743	0.313		0.266	1.322	

Sum of the SAR for LTE B5 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B5	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.161	0.452	0.167		0.780	
	0.161	0.452		0.079	0.692	
Edge4	0.433	0.018	0.000		0.451	
	0.433	0.018		0.004	0.455	
Edge4 Reduction	1.121	0.018	0.000		1.139	
	1.121	0.018		0.004	1.143	
Rear	0.666	0.198	0.582		1.446	
	0.666	0.198		0.244	1.108	
Rear Reduction	0.410	0.198	0.582		1.190	
	0.410	0.198		0.244	0.852	
Rear tilt (Edge 4 side)	0.756	0.078	0.025		0.859	
	0.756	0.078		0.002	0.836	
Rear tilt (Edge 4 side) Reduction	0.576	0.078	0.025		0.679	
	0.576	0.078		0.002	0.656	
Rear tilt (Edge 1 side)	0.393	0.313	0.808		1.514	
	0.393	0.313		0.266	0.972	

Sum of the SAR for LTE B7 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B7	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.209	0.452	0.167		0.828	
	0.209	0.452		0.079	0.740	
Edge4	0.497	0.018	0.000		0.515	
	0.497	0.018		0.004	0.519	
Edge4 Reduction	1.010	0.018	0.000		1.028	
	1.010	0.018		0.004	1.032	
Rear	0.492	0.198	0.582		1.272	
	0.492	0.198		0.244	0.934	
Rear Reduction	0.388	0.198	0.582		1.168	
	0.388	0.198		0.244	0.830	
Rear tilt (Edge 4 side)	0.700	0.078	0.025		0.803	
	0.700	0.078		0.002	0.780	
Rear tilt (Edge 4 side) Reduction	0.494	0.078	0.025		0.597	
	0.494	0.078		0.002	0.574	
Rear tilt (Edge 1 side)	0.644	0.313	0.808		1.765	Refer to 12.6
	0.644	0.313		0.266	1.223	

Sum of the SAR for LTE B12 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B12	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.160	0.452	0.167		0.779	
	0.160	0.452		0.079	0.691	
Edge4	0.153	0.018	0.000		0.171	
	0.153	0.018		0.004	0.175	
Edge4 Reduction	1.188	0.018	0.000		1.206	
	1.188	0.018		0.004	1.210	
Rear	0.297	0.198	0.582		1.077	
	0.297	0.198		0.244	0.739	
Rear Reduction	0.319	0.198	0.582		1.099	
	0.319	0.198		0.244	0.761	
Rear tilt (Edge 4 side)	0.431	0.078	0.025		0.534	
	0.431	0.078		0.002	0.511	
Rear tilt (Edge 4 side) Reduction	0.546	0.078	0.025		0.649	
	0.546	0.078		0.002	0.626	
Rear tilt (Edge 1 side)	0.441	0.313	0.808		1.562	
	0.441	0.313		0.266	1.020	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B13	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.279	0.452	0.167		0.898	
	0.279	0.452		0.079	0.810	
Edge4	0.274	0.018	0.000		0.292	
	0.274	0.018		0.004	0.296	
Edge4 Reduction	1.184	0.018	0.000		1.202	
	1.184	0.018		0.004	1.206	
Rear	0.480	0.198	0.582		1.260	
	0.480	0.198		0.244	0.922	
Rear Reduction	0.386	0.198	0.582		1.166	
	0.386	0.198		0.244	0.828	
Rear tilt (Edge 4 side)	0.693	0.078	0.025		0.796	
	0.693	0.078		0.002	0.773	
Rear tilt (Edge 4 side) Reduction	0.636	0.078	0.025		0.739	
	0.636	0.078		0.002	0.716	
Rear tilt (Edge 1 side)	0.658	0.313	0.808		1.779	Refer to 12.6
	0.658	0.313		0.266	1.237	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B14	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.222	0.452	0.167		0.841	
	0.222	0.452		0.079	0.753	
Edge4	0.344	0.018	0.000		0.362	
	0.344	0.018		0.004	0.366	
Edge4 Reduction	1.183	0.018	0.000		1.201	
	1.183	0.018		0.004	1.205	
Rear	0.507	0.198	0.582		1.287	
	0.507	0.198		0.244	0.949	
Rear Reduction	0.423	0.198	0.582		1.203	
	0.423	0.198		0.244	0.865	
Rear tilt (Edge 4 side)	0.745	0.078	0.025		0.848	
	0.745	0.078		0.002	0.825	
Rear tilt (Edge 4 side) Reduction	0.643	0.078	0.025		0.746	
	0.643	0.078		0.002	0.723	
Rear tilt (Edge 1 side)	0.713	0.313	0.808		1.834	Refer to 12.6
	0.713	0.313		0.266	1.292	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B26	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.232	0.452	0.167		0.851	
	0.232	0.452		0.079	0.763	
Edge4	0.668	0.018	0.000		0.686	
	0.668	0.018		0.004	0.690	
Edge4 Reduction	1.207	0.018	0.000		1.225	
	1.207	0.018		0.004	1.229	
Rear	0.593	0.198	0.582		1.373	
	0.593	0.198		0.244	1.035	
Rear Reduction	0.415	0.198	0.582		1.195	
	0.415	0.198		0.244	0.857	
Rear tilt (Edge 4 side)	0.935	0.078	0.025		1.038	
	0.935	0.078		0.002	1.015	
Rear tilt (Edge 4 side) Reduction	0.580	0.078	0.025		0.683	
	0.580	0.078		0.002	0.660	
Rear tilt (Edge 1 side)	0.710	0.313	0.808		1.831	Refer to 12.6
	0.710	0.313		0.266	1.289	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B41	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.058	0.452	0.167		0.677	
	0.058	0.452		0.079	0.589	
Edge4	0.390	0.018	0.000		0.408	
	0.390	0.018		0.004	0.412	
Edge4 Reduction	0.902	0.018	0.000		0.920	
	0.902	0.018		0.004	0.924	
Rear	0.356	0.198	0.582		1.136	
	0.356	0.198		0.244	0.798	
Rear Reduction	0.296	0.198	0.582		1.076	
	0.296	0.198		0.244	0.738	
Rear tilt (Edge 4 side)	0.540	0.078	0.025		0.643	
	0.540	0.078		0.002	0.620	
Rear tilt (Edge 4 side) Reduction	0.463	0.078	0.025		0.566	
	0.463	0.078		0.002	0.543	
Rear tilt (Edge 1 side)	0.412	0.313	0.808		1.533	
	0.412	0.313		0.266	0.991	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B48	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.094	0.452	0.167		0.713	
	0.094	0.452		0.079	0.625	
Edge4	0.507	0.018	0.000		0.525	
	0.507	0.018		0.004	0.529	
Edge4 Reduction	0.919	0.018	0.000		0.937	
	0.919	0.018		0.004	0.941	
Rear	0.192	0.198	0.582		0.972	
	0.192	0.198		0.244	0.634	
Rear Reduction	0.071	0.198	0.582		0.851	
	0.071	0.198		0.244	0.513	
Rear tilt (Edge 4 side)	0.434	0.078	0.025		0.537	
	0.434	0.078		0.002	0.514	
Rear tilt (Edge 4 side) Reduction	0.185	0.078	0.025		0.288	
	0.185	0.078		0.002	0.265	
Rear tilt (Edge 1 side)	0.347	0.313	0.808		1.468	
	0.347	0.313		0.266	0.926	

Sum of the SAR for LTE B66 & WLAN Ant 1 5.5GHz / WLANAnt 2 5.5GHz / BT

Test Position	Mode				Sum of SAR (1g/W/kg)	Remarks
	LTE B66	WLAN Ant 1 5.5GHz	WLANAnt 2 5.5GHz	BT		
Edge1	0.342	0.452	0.167		0.961	
	0.342	0.452		0.079	0.873	
Edge4	0.941	0.018	0.000		0.959	
	0.941	0.018		0.004	0.963	
Edge4 Reduction	1.008	0.018	0.000		1.026	
	1.008	0.018		0.004	1.030	
Rear	0.571	0.198	0.582		1.351	
	0.571	0.198		0.244	1.013	
Rear Reduction	0.415	0.198	0.582		1.195	
	0.415	0.198		0.244	0.857	
Rear tilt (Edge 4 side)	0.964	0.078	0.025		1.067	
	0.964	0.078		0.002	1.044	
Rear tilt (Edge 4 side) Reduction	0.794	0.078	0.025		0.897	
	0.794	0.078		0.002	0.874	
Rear tilt (Edge 1 side)	0.870	0.313	0.808		1.991	Refer to 12.6
	0.870	0.313		0.266	1.449	

12.5. Sum of the SAR for WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Sum of the SAR for WCDMA B2 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B2	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.435	0.530	0.204		1.169	
	0.435	0.530		0.079	1.044	
Edge4	0.523	0.023	0.000		0.546	
	0.523	0.023		0.004	0.550	
Edge4 Reduction	1.192	0.023	0.000		1.215	
	1.192	0.023		0.004	1.219	
Rear	0.699	0.244	0.585		1.528	
	0.699	0.244		0.244	1.187	
Rear Reduction	0.446	0.244	0.585		1.275	
	0.446	0.244		0.244	0.934	
Rear tilt (Edge 4 side)	1.093	0.098	0.021		1.212	
	1.093	0.098		0.002	1.193	
Rear tilt (Edge 4 side) Reduction	0.795	0.098	0.021		0.914	
	0.795	0.098		0.002	0.895	
Rear tilt (Edge 1 side)	0.853	0.336	0.729		1.918	Refer to 12.6
	0.853	0.336		0.266	1.455	

Sum of the SAR for WCDMA B4 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B4	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.381	0.530	0.204		1.115	
	0.381	0.530		0.079	0.990	
Edge4	0.827	0.023	0.000		0.850	
	0.827	0.023		0.004	0.854	
Edge4 Reduction	0.767	0.023	0.000		0.790	
	0.767	0.023		0.004	0.794	
Rear	0.649	0.244	0.585		1.478	
	0.649	0.244		0.244	1.137	
Rear Reduction	0.348	0.244	0.585		1.177	
	0.348	0.244		0.244	0.836	
Rear tilt (Edge 4 side)	0.952	0.098	0.021		1.071	
	0.952	0.098		0.002	1.052	
Rear tilt (Edge 4 side) Reduction	0.728	0.098	0.021		0.847	
	0.728	0.098		0.002	0.828	
Rear tilt (Edge 1 side)	0.926	0.336	0.729		1.991	Refer to 12.6
	0.926	0.336		0.266	1.528	

Sum of the SAR for WCDMA B5 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	WCDMA B5	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.147	0.530	0.204		0.881	
	0.147	0.530		0.079	0.756	
Edge4	0.608	0.023	0.000		0.631	
	0.608	0.023		0.004	0.635	
Edge4 Reduction	0.877	0.023	0.000		0.900	
	0.877	0.023		0.004	0.904	
Rear	0.664	0.244	0.585		1.493	
	0.664	0.244		0.244	1.152	
Rear Reduction	0.291	0.244	0.585		1.120	
	0.291	0.244		0.244	0.779	
Rear tilt (Edge 4 side)	0.796	0.098	0.021		0.915	
	0.796	0.098		0.002	0.896	
Rear tilt (Edge 4 side) Reduction	0.406	0.098	0.021		0.525	
	0.406	0.098		0.002	0.506	
Rear tilt (Edge 1 side)	0.685	0.336	0.729		1.750	Refer to 12.6
	0.685	0.336		0.266	1.287	

Sum of the SAR for LTE B2 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B2	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.536	0.530	0.204		1.270	
	0.536	0.530		0.079	1.145	
Edge4	0.573	0.023	0.000		0.596	
	0.573	0.023		0.004	0.600	
Edge4 Reduction	1.159	0.023	0.000		1.182	
	1.159	0.023		0.004	1.186	
Rear	0.573	0.244	0.585		1.402	
	0.573	0.244		0.244	1.061	
Rear Reduction	0.396	0.244	0.585		1.225	
	0.396	0.244		0.244	0.884	
Rear tilt (Edge 4 side)	0.985	0.098	0.021		1.104	
	0.985	0.098		0.002	1.085	
Rear tilt (Edge 4 side) Reduction	0.745	0.098	0.021		0.864	
	0.745	0.098		0.002	0.845	
Rear tilt (Edge 1 side)	0.743	0.336	0.729		1.808	Refer to 12.6
	0.743	0.336		0.266	1.345	

Sum of the SAR for LTE B5 & WLANAnt 1 5.8GHz / WLANAnt 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B5	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.161	0.530	0.204		0.895	
	0.161	0.530		0.079	0.770	
Edge4	0.433	0.023	0.000		0.456	
	0.433	0.023		0.004	0.460	
Edge4 Reduction	1.121	0.023	0.000		1.144	
	1.121	0.023		0.004	1.148	
Rear	0.666	0.244	0.585		1.495	
	0.666	0.244		0.244	1.154	
Rear Reduction	0.410	0.244	0.585		1.239	
	0.410	0.244		0.244	0.898	
Rear tilt (Edge 4 side)	0.756	0.098	0.021		0.875	
	0.756	0.098		0.002	0.856	
Rear tilt (Edge 4 side) Reduction	0.576	0.098	0.021		0.695	
	0.576	0.098		0.002	0.676	
Rear tilt (Edge 1 side)	0.393	0.336	0.729		1.458	
	0.393	0.336		0.266	0.995	

Sum of the SAR for LTE B7 & WLANAnt 1 5.8GHz / WLANAnt 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B7	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.209	0.530	0.204		0.943	
	0.209	0.530		0.079	0.818	
Edge4	0.497	0.023	0.000		0.520	
	0.497	0.023		0.004	0.524	
Edge4 Reduction	1.010	0.023	0.000		1.033	
	1.010	0.023		0.004	1.037	
Rear	0.492	0.244	0.585		1.321	
	0.492	0.244		0.244	0.980	
Rear Reduction	0.388	0.244	0.585		1.217	
	0.388	0.244		0.244	0.876	
Rear tilt (Edge 4 side)	0.700	0.098	0.021		0.819	
	0.700	0.098		0.002	0.800	
Rear tilt (Edge 4 side) Reduction	0.494	0.098	0.021		0.613	
	0.494	0.098		0.002	0.594	
Rear tilt (Edge 1 side)	0.644	0.336	0.729		1.709	Refer to 12.6
	0.644	0.336		0.266	1.246	

Sum of the SAR for LTE B12 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B12	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.160	0.530	0.204		0.894	
	0.160	0.530		0.079	0.769	
Edge4	0.153	0.023	0.000		0.176	
	0.153	0.023		0.004	0.180	
Edge4 Reduction	1.188	0.023	0.000		1.211	
	1.188	0.023		0.004	1.215	
Rear	0.297	0.244	0.585		1.126	
	0.297	0.244		0.244	0.785	
Rear Reduction	0.319	0.244	0.585		1.148	
	0.319	0.244		0.244	0.807	
Rear tilt (Edge 4 side)	0.431	0.098	0.021		0.550	
	0.431	0.098		0.002	0.531	
Rear tilt (Edge 4 side) Reduction	0.546	0.098	0.021		0.665	
	0.546	0.098		0.002	0.646	
Rear tilt (Edge 1 side)	0.441	0.336	0.729		1.506	
	0.441	0.336		0.266	1.043	

Sum of the SAR for LTE B13 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B13	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.279	0.530	0.204		1.013	
	0.279	0.530		0.079	0.888	
Edge4	0.274	0.023	0.000		0.297	
	0.274	0.023		0.004	0.301	
Edge4 Reduction	1.184	0.023	0.000		1.207	
	1.184	0.023		0.004	1.211	
Rear	0.480	0.244	0.585		1.309	
	0.480	0.244		0.244	0.968	
Rear Reduction	0.386	0.244	0.585		1.215	
	0.386	0.244		0.244	0.874	
Rear tilt (Edge 4 side)	0.693	0.098	0.021		0.812	
	0.693	0.098		0.002	0.793	
Rear tilt (Edge 4 side) Reduction	0.636	0.098	0.021		0.755	
	0.636	0.098		0.002	0.736	
Rear tilt (Edge 1 side)	0.658	0.336	0.729		1.723	Refer to 12.6
	0.658	0.336		0.266	1.260	

Sum of the SAR for LTE B14 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B14	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.222	0.530	0.204		0.956	
	0.222	0.530		0.079	0.831	
Edge4	0.344	0.023	0.000		0.367	
	0.344	0.023		0.004	0.371	
Edge4 Reduction	1.183	0.023	0.000		1.206	
	1.183	0.023		0.004	1.210	
Rear	0.507	0.244	0.585		1.336	
	0.507	0.244		0.244	0.995	
Rear Reduction	0.423	0.244	0.585		1.252	
	0.423	0.244		0.244	0.911	
Rear tilt (Edge 4 side)	0.745	0.098	0.021		0.864	
	0.745	0.098		0.002	0.845	
Rear tilt (Edge 4 side) Reduction	0.643	0.098	0.021		0.762	
	0.643	0.098		0.002	0.743	
Rear tilt (Edge 1 side)	0.713	0.336	0.729		1.778	Refer to 12.6
	0.713	0.336		0.266	1.315	

Sum of the SAR for LTE B26 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B26	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.232	0.530	0.204		0.966	
	0.232	0.530		0.079	0.841	
Edge4	0.668	0.023	0.000		0.691	
	0.668	0.023		0.004	0.695	
Edge4 Reduction	1.207	0.023	0.000		1.230	
	1.207	0.023		0.004	1.234	
Rear	0.593	0.244	0.585		1.422	
	0.593	0.244		0.244	1.081	
Rear Reduction	0.415	0.244	0.585		1.244	
	0.415	0.244		0.244	0.903	
Rear tilt (Edge 4 side)	0.935	0.098	0.021		1.054	
	0.935	0.098		0.002	1.035	
Rear tilt (Edge 4 side) Reduction	0.580	0.098	0.021		0.699	
	0.580	0.098		0.002	0.680	
Rear tilt (Edge 1 side)	0.710	0.336	0.729		1.775	Refer to 12.6
	0.710	0.336		0.266	1.312	

Sum of the SAR for LTE B41 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B41	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.058	0.530	0.204		0.792	
	0.058	0.530		0.079	0.667	
Edge4	0.390	0.023	0.000		0.413	
	0.390	0.023		0.004	0.417	
Edge4 Reduction	0.902	0.023	0.000		0.925	
	0.902	0.023		0.004	0.929	
Rear	0.356	0.244	0.585		1.185	
	0.356	0.244		0.244	0.844	
Rear Reduction	0.296	0.244	0.585		1.125	
	0.296	0.244		0.244	0.784	
Rear tilt (Edge 4 side)	0.540	0.098	0.021		0.659	
	0.540	0.098		0.002	0.640	
Rear tilt (Edge 4 side) Reduction	0.463	0.098	0.021		0.582	
	0.463	0.098		0.002	0.563	
Rear tilt (Edge 1 side)	0.412	0.336	0.729		1.477	
	0.412	0.336		0.266	1.014	

Sum of the SAR for LTE B48 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/Wkg)	Remarks
	LTE B48	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.094	0.530	0.204		0.828	
	0.094	0.530		0.079	0.703	
Edge4	0.507	0.023	0.000		0.530	
	0.507	0.023		0.004	0.534	
Edge4 Reduction	0.919	0.023	0.000		0.942	
	0.919	0.023		0.004	0.946	
Rear	0.192	0.244	0.585		1.021	
	0.192	0.244		0.244	0.680	
Rear Reduction	0.071	0.244	0.585		0.900	
	0.071	0.244		0.244	0.559	
Rear tilt (Edge 4 side)	0.434	0.098	0.021		0.553	
	0.434	0.098		0.002	0.534	
Rear tilt (Edge 4 side) Reduction	0.185	0.098	0.021		0.304	
	0.185	0.098		0.002	0.285	
Rear tilt (Edge 1 side)	0.347	0.336	0.729		1.412	
	0.347	0.336		0.266	0.949	

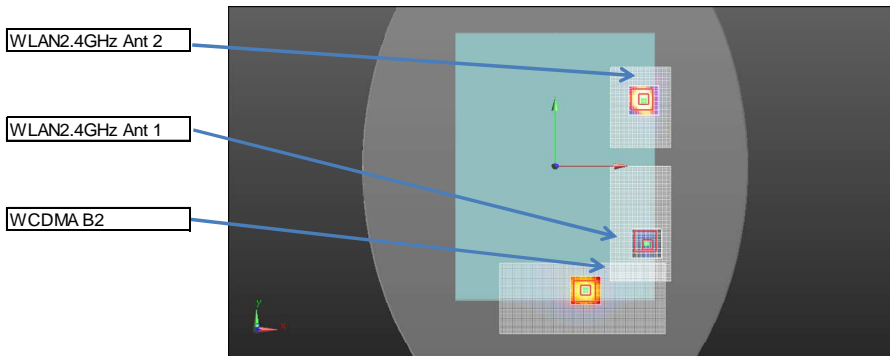
Sum of the SAR for LTE B66 & WLAN Ant 1 5.8GHz / WLAN Ant 2 5.8GHz / BT

Test Position	Mode				Sum of SAR (1g/W/kg)	Remarks
	LTE B66	WLAN Ant 1 5.8GHz	WLAN Ant 2 5.8GHz	BT		
Edge1	0.342	0.530	0.204		1.076	
	0.342	0.530		0.079	0.951	
Edge4	0.941	0.023	0.000		0.964	
	0.941	0.023		0.004	0.968	
Edge4 Reduction	1.008	0.023	0.000		1.031	
	1.008	0.023		0.004	1.035	
Rear	0.571	0.244	0.585		1.400	
	0.571	0.244		0.244	1.059	
Rear Reduction	0.415	0.244	0.585		1.244	
	0.415	0.244		0.244	0.903	
Rear tilt (Edge 4 side)	0.964	0.098	0.021		1.083	
	0.964	0.098		0.002	1.064	
Rear tilt (Edge 4 side) Reduction	0.794	0.098	0.021		0.913	
	0.794	0.098		0.002	0.894	
Rear tilt (Edge 1 side)	0.870	0.336	0.729		1.935	Refer to 12.6
	0.870	0.336		0.266	1.472	

12.6. SAR to Peak Location Separation Ratio (SPLSR)

12.6.1. Rear: WCDMA B2 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B2 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



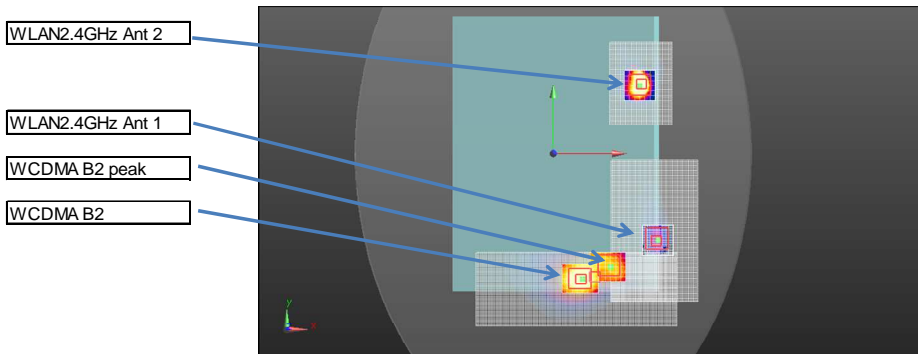
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WCDMA B2	WWAN	1	30.50	-130.00	-3.24		
WLAN2.4GHz	Ant 1	2	92.00	-82.40	1.43	No1+No2	77.91
WLAN2.4GHz	Ant 2	3	88.60	72.20	1.32	No1+No3	210.43

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear	0.699	0.120		No.1 + No.2	0.819	77.91	0.010	No
Rear	0.699		0.852	No.1 + No.3	1.551	210.43	0.009	No

12.6.2. Rear tilt(Edge 1 side): WCDMA B2 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B2 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	27.50	-128.00	-3.33		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	81.84
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	207.99

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.853	0.240		No.1 + No.2	1.093	81.84	0.014	No
Rear tilt(Edge 1 side)	0.853		0.938	No.1 + No.3	1.791	207.99	0.012	No

2nd peak

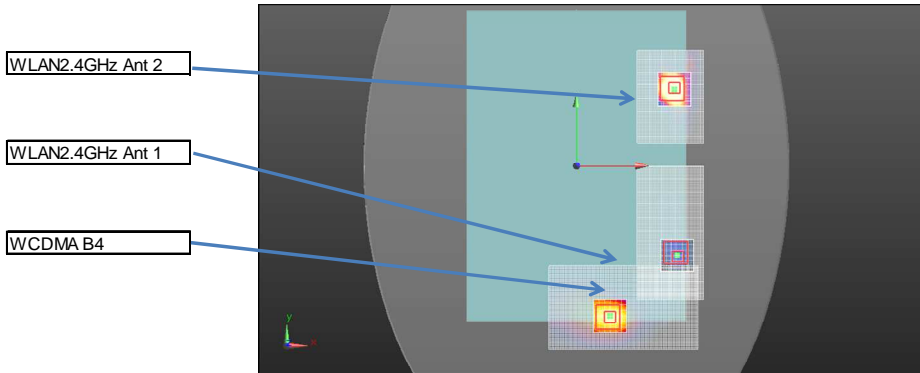
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	35.50	-130.00	-3.21		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	75.92
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	207.83

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.240		No.1 + No.2	0.933	75.92	0.012	No
Rear tilt(Edge 1 side)	0.693		0.938	No.1 + No.3	1.631	207.83	0.010	No

12.6.3. Rear: WCDMA B4 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B4 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



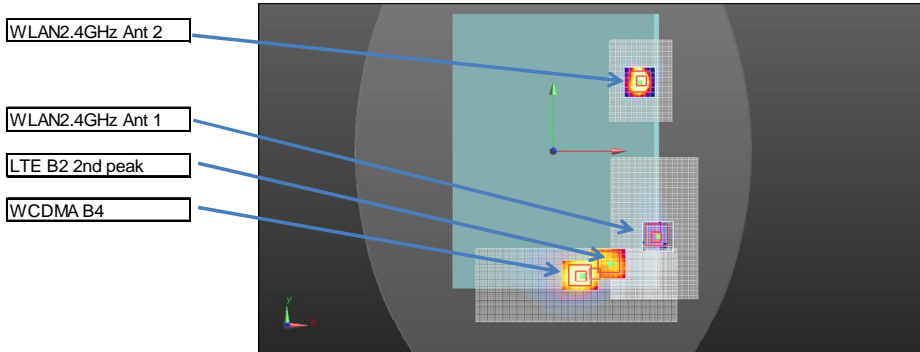
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WCDMA B4	WWAN	1	32.50	-136.00	0.50		
WLAN2.4GHz	Ant 1	2	92.00	-82.40	1.43	No1+No2	80.09
WLAN2.4GHz	Ant 2	3	88.60	72.20	1.32	No1+No3	215.63

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear	0.649	0.120		No.1 + No.2	0.769	80.09	0.008	No
Rear	0.649		0.852	No.1 + No.3	1.501	215.63	0.009	No

12.6.4. Rear tilt(Edge 1 side): WCDMA B4 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B4 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



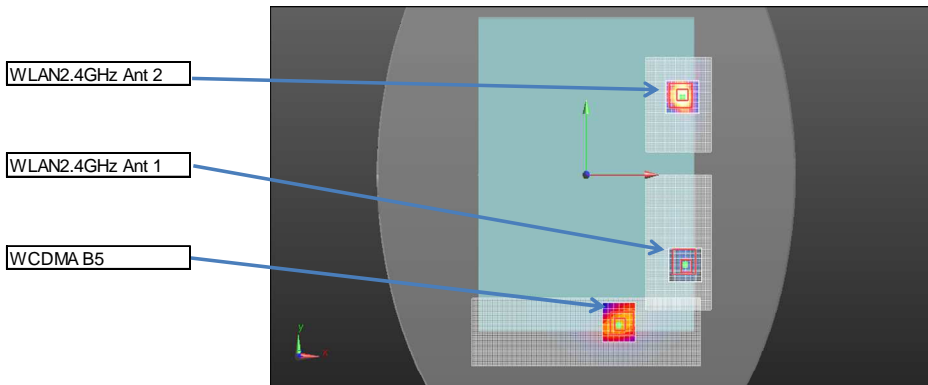
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WCDMA B4	WWAN	1	40.50	-127.50	0.90		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	70.21
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	204.19

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.926	0.240		No.1 + No.2	1.166	70.21	0.018	No
Rear tilt(Edge 1 side)	0.926		0.938	No.1 + No.3	1.864	204.19	0.012	No

12.6.5. Rear: WCDMA B5 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B5 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WCDMA B5	WWAN	1	28.00	-134.00	-2.99		
WLAN2.4GHz	Ant 1	2	92.00	-82.40	1.43	No1+No2	82.33
WLAN2.4GHz	Ant 2	3	88.60	72.20	1.32	No1+No3	214.96

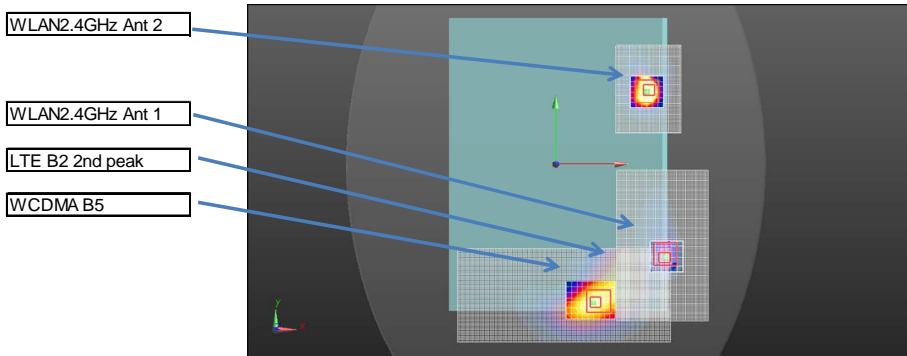
The Peak Location Separation Distance is computed by using the formula below:

$$\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear	0.664	0.120		No.1 + No.2	0.784	82.33	0.008	No
Rear	0.664		0.852	No.1 + No.3	1.516	214.96	0.009	No

12.6.6. Rear tilt(Edge 1 side): WCDMA B5 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination WCDMA B5 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



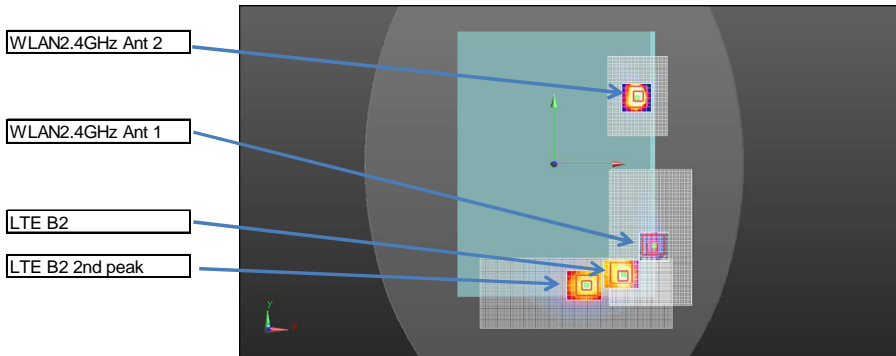
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B5	WWAN	1	34.50	-132.50	-2.91		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	78.09
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	210.49

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.685	0.240		No.1 + No.2	0.925	78.09	0.011	No
Rear tilt(Edge 1 side)	0.685		0.938	No.1 + No.3	1.623	210.49	0.010	No

12.6.7. Rear tilt(Edge 1 side): LTE B2 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B2 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	60.50	-120.50	-2.57		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	50.01
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	193.80

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.743	0.240		No.1 + No.2	0.983	50.01	0.019	No
Rear tilt(Edge 1 side)	0.743		0.938	No.1 + No.3	1.681	193.80	0.011	No

2nd peak

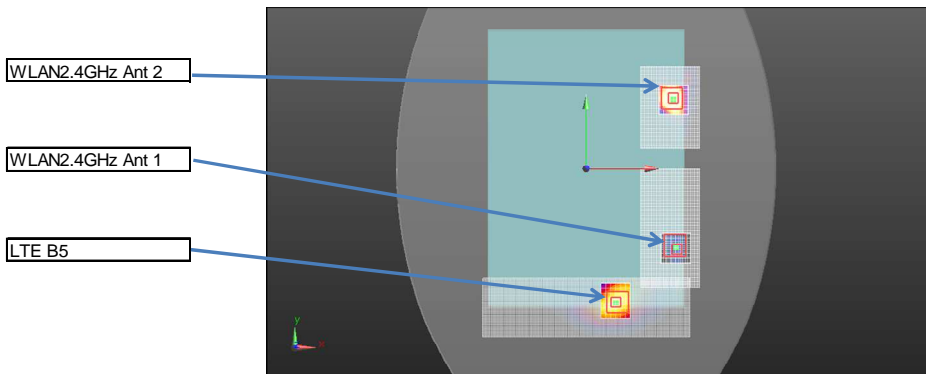
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	34.00	-128.50	-3.18		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	76.42
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	206.74

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.240		No.1 + No.2	0.933	76.42	0.012	No
Rear tilt(Edge 1 side)	0.693		0.938	No.1 + No.3	1.631	206.74	0.010	No

12.6.8. Rear: LTE B5 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B5 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



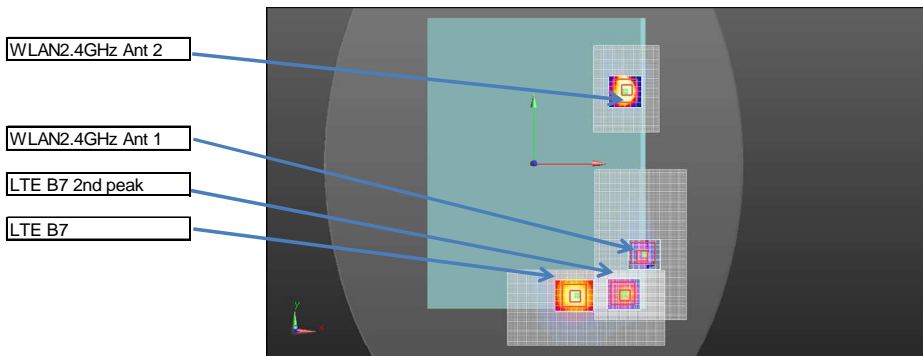
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
LTE B5	WWAN	1	28.00	-135.50	-3.26		
WLAN2.4GHz	Ant 1	2	92.00	-82.40	1.43	No1+No2	83.29
WLAN2.4GHz	Ant 2	3	88.60	72.20	1.32	No1+No3	216.41

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear	0.666	0.120		No.1 + No.2	0.786	83.29	0.008	No
Rear	0.666		0.852	No.1 + No.3	1.518	216.41	0.009	No

12.6.9. Rear tilt(Edge 1 side): LTE B7 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B7 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	38.60	-128.00	-3.00		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	72.23
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	205.15

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.644	0.240		No.1 + No.2	0.884	72.23	0.012	No
Rear tilt(Edge 1 side)	0.644		0.938	No.1 + No.3	1.582	205.15	0.010	No

2nd peak

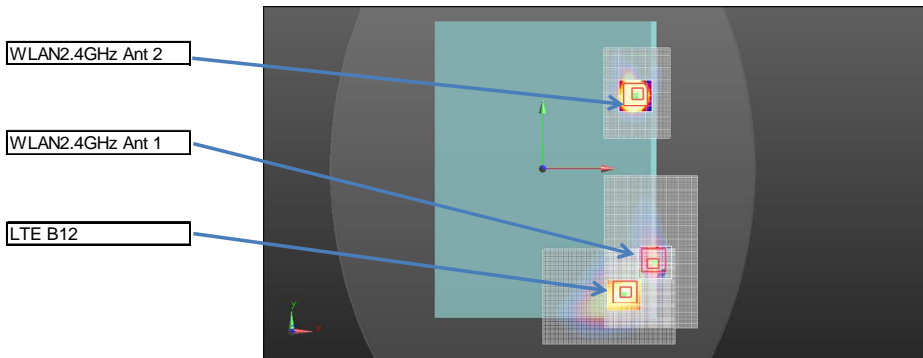
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	85.80	-126.80	-2.12		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	39.85
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	198.43

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.473	0.240		No.1 + No.2	0.713	39.85	0.015	No
Rear tilt(Edge 1 side)	0.473		0.938	No.1 + No.3	1.411	198.43	0.008	No

12.6.10. Rear tilt(Edge 1 side): LTE B12 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B12 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



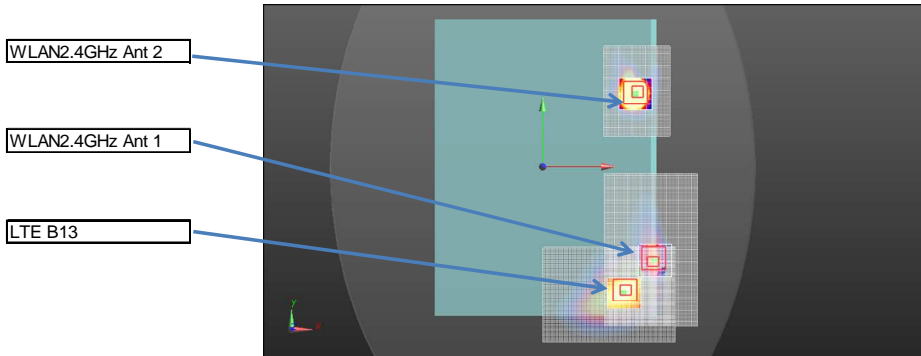
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B12	WWAN	1	76.50	-115.50	1.94		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	34.71
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	187.33

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.441	0.240		No.1 + No.2	0.681	34.71	0.016	No
Rear tilt(Edge 1 side)	0.441		0.938	No.1 + No.3	1.379	187.33	0.009	No

12.6.11. Rear tilt(Edge 1 side): LTE B13 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B13 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



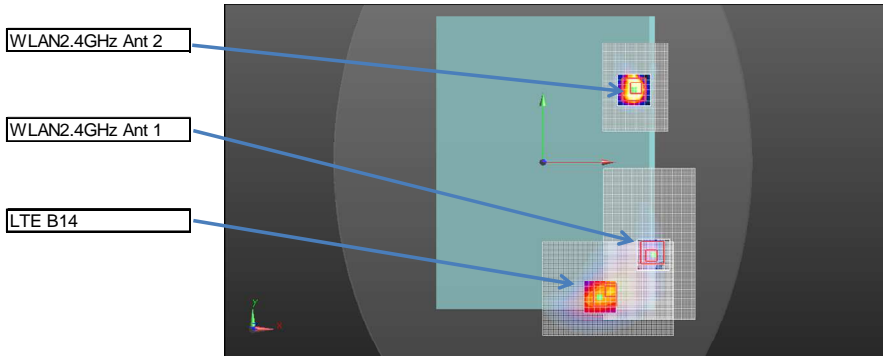
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B13	WWAN	1	53.00	-128.50	1.54		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	60.70
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	202.77

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.658	0.240		No.1 + No.2	0.898	60.70	0.014	No
Rear tilt(Edge 1 side)	0.658		0.938	No.1 + No.3	1.596	202.77	0.010	No

12.6.12. Rear tilt(Edge 1 side): LTE B14 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B14 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



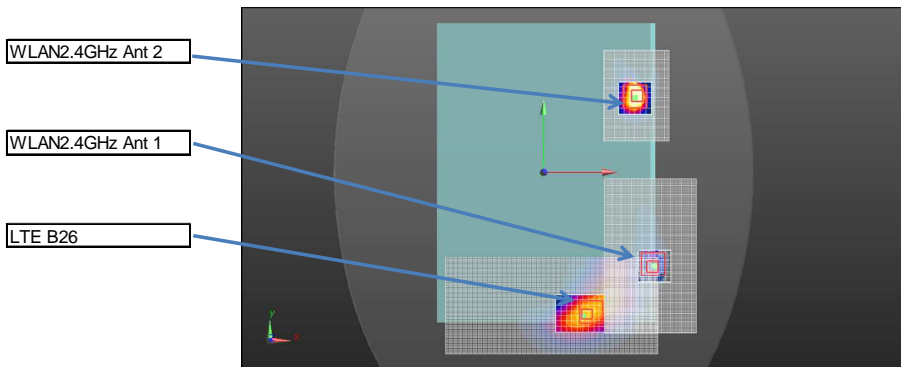
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B14	WWAN	1	62.50	-124.00	1.71		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	50.59
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	196.98

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.713	0.240		No.1 + No.2	0.953	50.59	0.018	No
Rear tilt(Edge 1 side)	0.713		0.938	No.1 + No.3	1.651	196.98	0.011	No

12.6.13. Rear tilt(Edge 1 side): LTE B26 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B26 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B26	WWAN	1	37.00	-133.00	-2.97		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	76.31
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	210.38

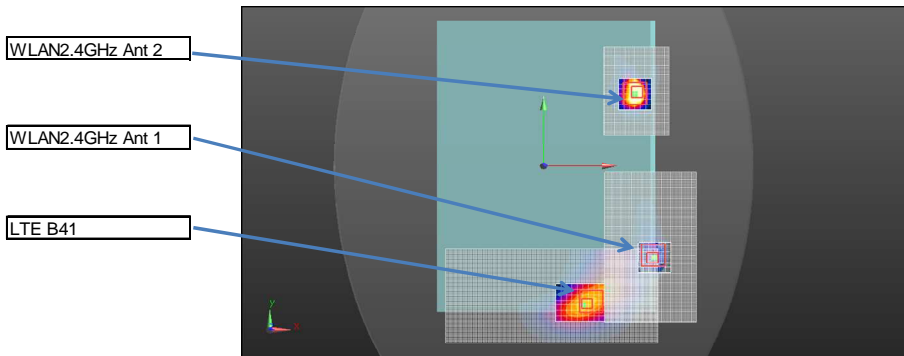
The Peak Location Separation Distance is computed by using the formula below:

$$\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.710	0.240		No.1 + No.2	0.950	76.31	0.012	No
Rear tilt(Edge 1 side)	0.710		0.938	No.1 + No.3	1.648	210.38	0.010	No

12.6.14. Rear tilt(Edge 1 side): LTE B41 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B41 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



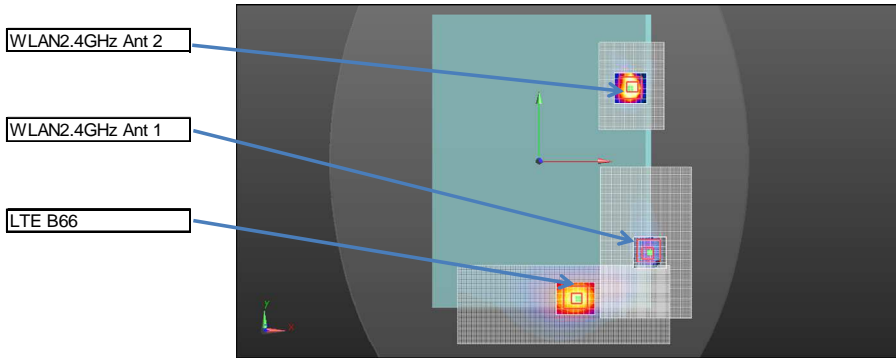
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B41	WWAN	1	37.60	-125.40	-2.82		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	71.73
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	202.85

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.412	0.240		No.1 + No.2	0.652	71.73	0.007	No
Rear tilt(Edge 1 side)	0.412		0.938	No.1 + No.3	1.350	202.85	0.008	No

12.6.15. Rear tilt(Edge 1 side): LTE B66 + WLAN 2.4G Ant 1 + WLAN 2.4G Ant 2

Combination LTE B66 + WLAN2.4GHz Ant 1 + WLAN2.4GHz Ant 2



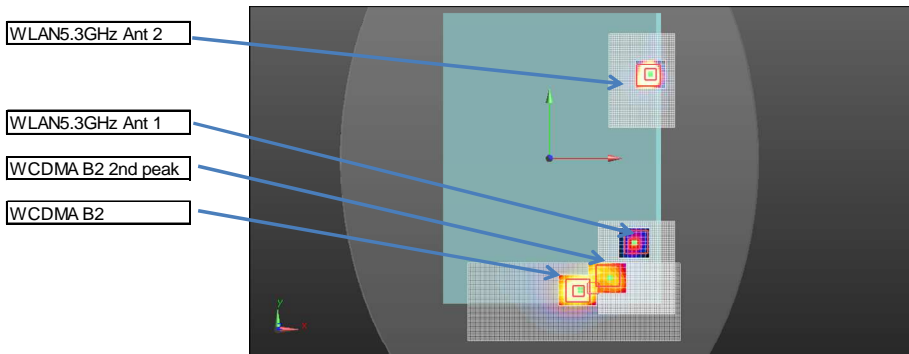
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B66	WWAN	1	35.00	-131.50	-2.87		
WLAN2.4GHz	Ant 1	2	99.60	-89.60	1.60	No1+No2	77.13
WLAN2.4GHz	Ant 2	3	85.80	71.60	1.19	No1+No3	209.40

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.870	0.240		No.1 + No.2	1.110	77.13	0.015	No
Rear tilt(Edge 1 side)	0.870		0.938	No.1 + No.3	1.808	209.40	0.012	No

12.6.16. Rear tilt(Edge 1 side): WCDMA B2 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination WCDMA B2 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	27.50	-128.00	-3.33		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	68.61
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	218.30

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.853	0.238		No.1 + No.2	1.091	68.61	0.017	No
Rear tilt(Edge 1 side)	0.853		0.830	No.1 + No.3	1.683	218.30	0.010	No

2nd peak

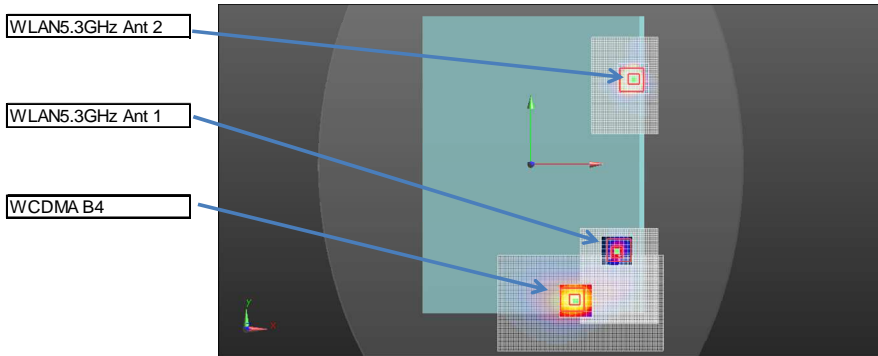
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	35.50	-130.00	-3.21		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	64.36
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	217.91

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.238		No.1 + No.2	0.931	64.36	0.014	No
Rear tilt(Edge 1 side)	0.693		0.830	No.1 + No.3	1.523	217.91	0.009	No

12.6.17. Rear tilt(Edge 1 side): WCDMA B4 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination WCDMA B4 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



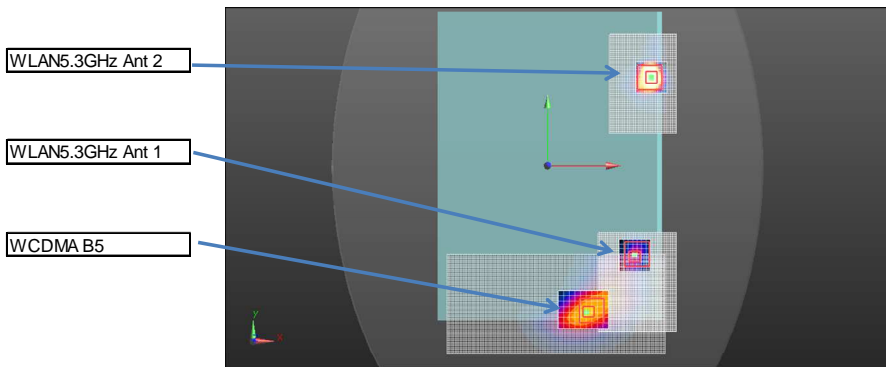
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B4	WWAN	1	40.50	-127.50	0.90		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	59.06
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	214.14

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.926	0.238		No.1 + No.2	1.164	59.06	0.021	No
Rear tilt(Edge 1 side)	0.926		0.830	No.1 + No.3	1.756	214.14	0.011	No

12.6.18. Rear tilt(Edge 1 side): WCDMA B5 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination WCDMA B5 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



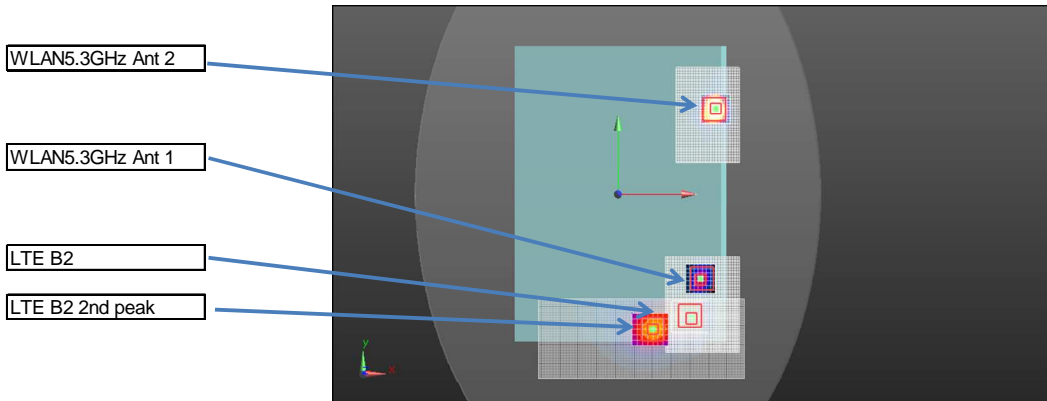
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
			mm	mm	mm		
WCDMA B5	WWAN	1	34.50	-132.50	-2.91		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	66.87
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	220.58

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.685	0.238		No.1 + No.2	0.923	66.87	0.013	No
Rear tilt(Edge 1 side)	0.685		0.830	No.1 + No.3	1.515	220.58	0.008	No

12.6.19. Rear tilt(Edge 1 side): LTE B2 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B2 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	60.50	-120.50	-2.57		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	42.42
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	203.16

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.743	0.238		No.1 + No.2	0.981	42.42	0.023	No
Rear tilt(Edge 1 side)	0.743		0.830	No.1 + No.3	1.573	203.16	0.010	No

2nd peak

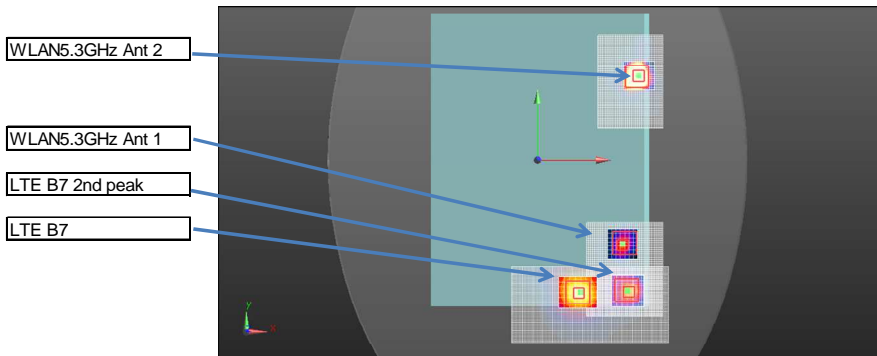
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	34.00	-128.50	-3.18		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	64.28
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	216.87

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.238		No.1 + No.2	0.931	64.28	0.014	No
Rear tilt(Edge 1 side)	0.693		0.830	No.1 + No.3	1.523	216.87	0.009	No

12.6.20. Rear tilt(Edge 1 side): LTE B7 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B7 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	38.60	-128.00	-3.00		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	60.81
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	215.16

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.644	0.238		No.1 + No.2	0.882	60.81	0.014	No
Rear tilt(Edge 1 side)	0.644		0.830	No.1 + No.3	1.474	215.16	0.008	No

2nd peak

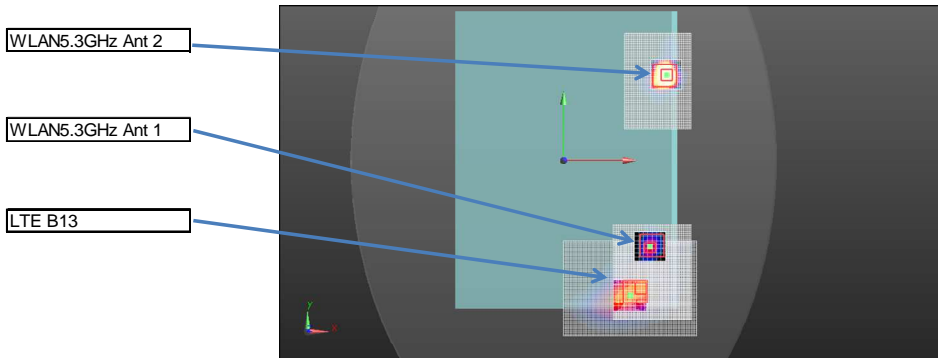
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	85.80	-126.80	-2.12		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	45.31
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	206.80

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.473	0.238		No.1 + No.2	0.711	45.31	0.013	No
Rear tilt(Edge 1 side)	0.473		0.830	No.1 + No.3	1.303	206.80	0.007	No

12.6.21. Rear tilt(Edge 1 side): LTE B13 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B13 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



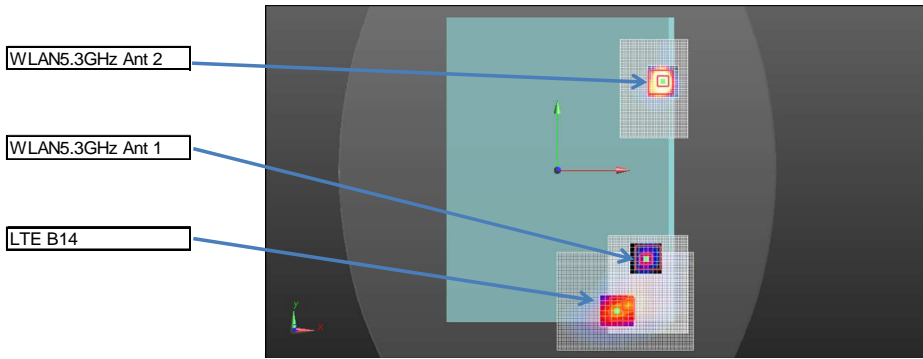
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B13	WWAN	1	53.00	-128.50	1.54		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	52.81
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	212.34

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.658	0.238		No.1 + No.2	0.896	52.81	0.016	No
Rear tilt(Edge 1 side)	0.658		0.830	No.1 + No.3	1.488	212.34	0.009	No

12.6.22. Rear tilt(Edge 1 side): LTE B14 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B14 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



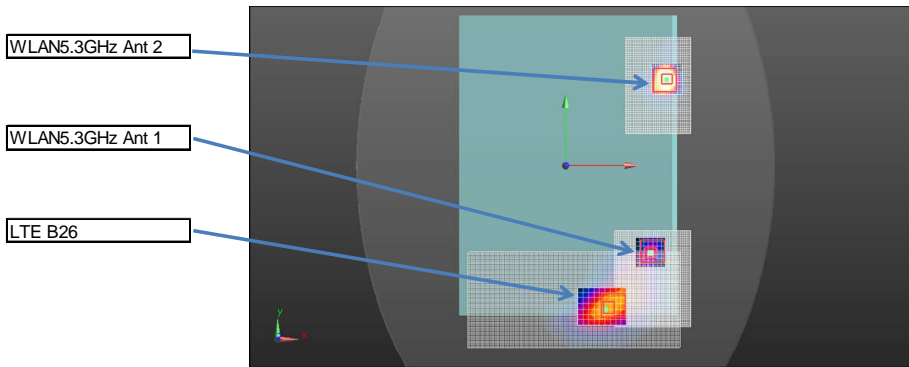
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B14	WWAN	1	62.50	-124.00	1.71		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	44.73
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	206.25

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.713	0.238		No.1 + No.2	0.951	44.73	0.021	No
Rear tilt(Edge 1 side)	0.713		0.830	No.1 + No.3	1.543	206.25	0.009	No

12.6.23. Rear tilt(Edge 1 side): LTE B26 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B26 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



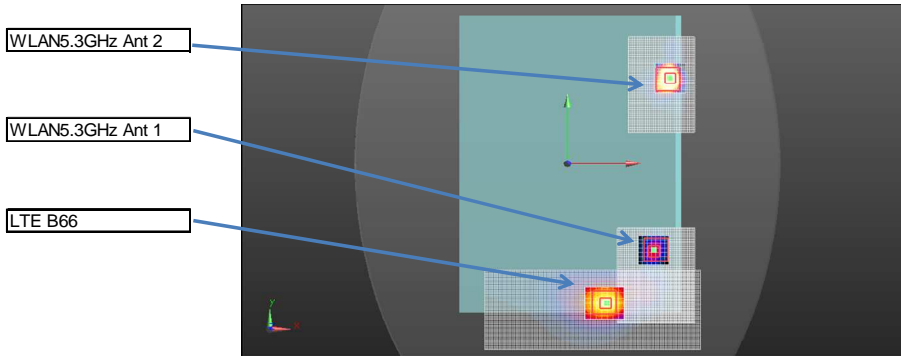
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B26	WWAN	1	37.00	-133.00	-2.97		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	65.65
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	220.40

The Peak Location Separation Distance is computed by using the formula below:
 $SQRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.710	0.238		No.1 + No.2	0.948	65.65	0.014	No
Rear tilt(Edge 1 side)	0.710		0.830	No.1 + No.3	1.540	220.40	0.009	No

12.6.24. Rear tilt(Edge 1 side): LTE B66 + WLAN 5.3G Ant 1 + WLAN 5.3G Ant 2

Combination LTE B66 + WLAN5.3GHz Ant 1 + WLAN5.3GHz Ant 2



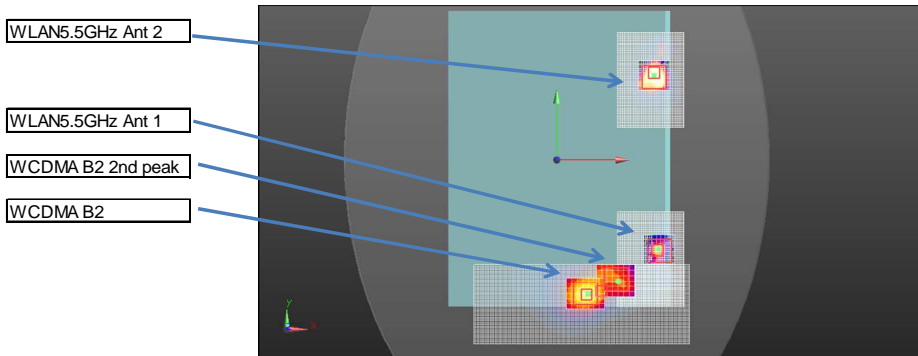
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B66	WWAN	1	35.00	-131.50	-2.87		
WLAN5.3GHz	Ant 1	2	78.40	-82.20	0.95	No1+No2	65.79
WLAN5.3GHz	Ant 2	3	94.20	79.80	1.49	No1+No3	219.48

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.870	0.238		No.1 + No.2	1.108	65.79	0.018	No
Rear tilt(Edge 1 side)	0.870		0.830	No.1 + No.3	1.700	219.48	0.010	No

12.6.25. Rear tilt(Edge 1 side): WCDMA B2 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination WCDMA B2 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	27.50	-128.00	-3.33		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	76.00
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	219.06

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.853	0.313		No.1 + No.2	1.166	76.00	0.017	No
Rear tilt(Edge 1 side)	0.853		0.808	No.1 + No.3	1.661	219.06	0.010	No

2nd peak

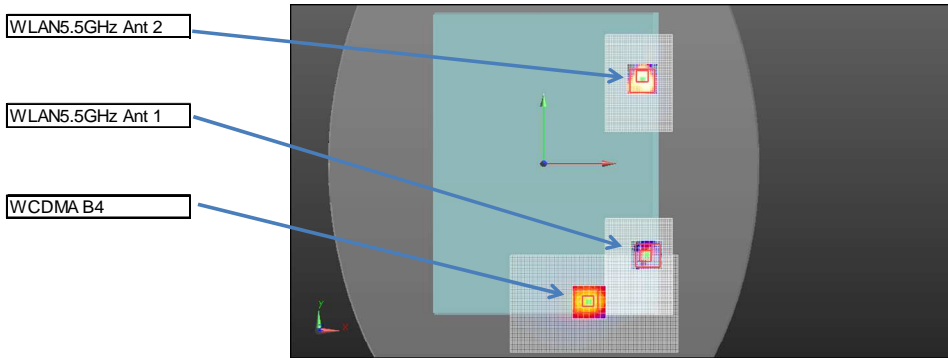
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	35.50	-130.00	-3.21		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	70.69
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	218.94

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.313		No.1 + No.2	1.006	70.69	0.014	No
Rear tilt(Edge 1 side)	0.693		0.808	No.1 + No.3	1.501	218.94	0.008	No

12.6.26. Rear tilt(Edge 1 side): WCDMA B4 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination WCDMA B4 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



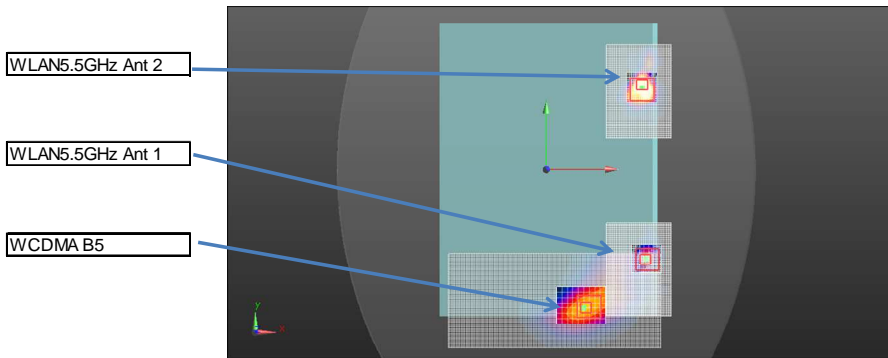
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B4	WWAN	1	40.50	-127.50	0.90		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	65.08
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	215.32

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.926	0.313		No.1 + No.2	1.239	65.08	0.021	No
Rear tilt(Edge 1 side)	0.926		0.808	No.1 + No.3	1.734	215.32	0.011	No

12.6.27. Rear tilt(Edge 1 side): WCDMA B5 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination WCDMA B5 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



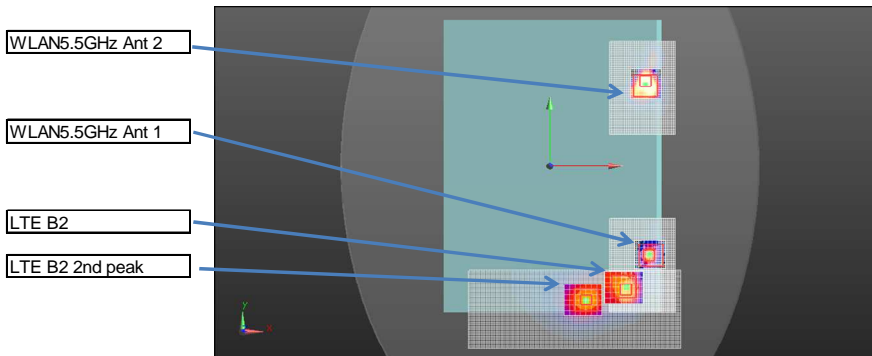
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B5	WWAN	1	34.50	-132.50	-2.91		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	73.01
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	221.60

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.685	0.313		No.1 + No.2	0.998	73.01	0.014	No
Rear tilt(Edge 1 side)	0.685		0.808	No.1 + No.3	1.493	221.60	0.008	No

12.6.28. Rear tilt(Edge 1 side): LTE B2 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B2 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	60.50	-120.50	-2.57		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	45.93
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	204.94

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.743	0.313		No.1 + No.2	1.056	45.93	0.024	No
Rear tilt(Edge 1 side)	0.743		0.808	No.1 + No.3	1.551	204.94	0.009	No

2nd peak

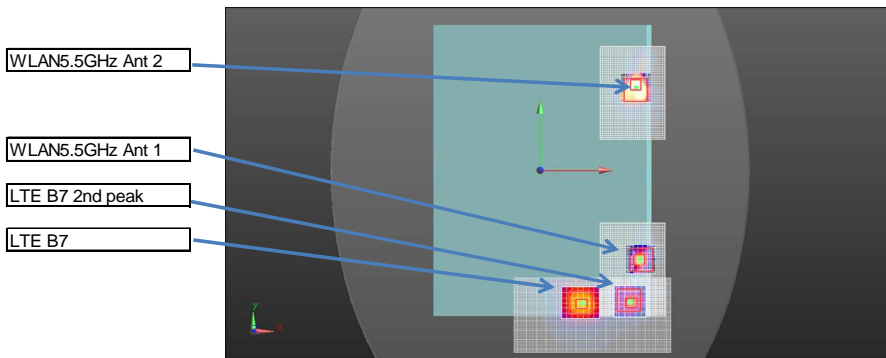
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	34.00	-128.50	-3.18		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	70.96
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	217.84

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.313		No.1 + No.2	1.006	70.96	0.014	No
Rear tilt(Edge 1 side)	0.693		0.808	No.1 + No.3	1.501	217.84	0.008	No

12.6.29. Rear tilt(Edge 1 side): LTE B7 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B7 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	38.60	-128.00	-3.00		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	67.01
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	216.27

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.644	0.313		No.1 + No.2	0.957	67.01	0.014	No
Rear tilt(Edge 1 side)	0.644		0.808	No.1 + No.3	1.452	216.27	0.008	No

2nd peak

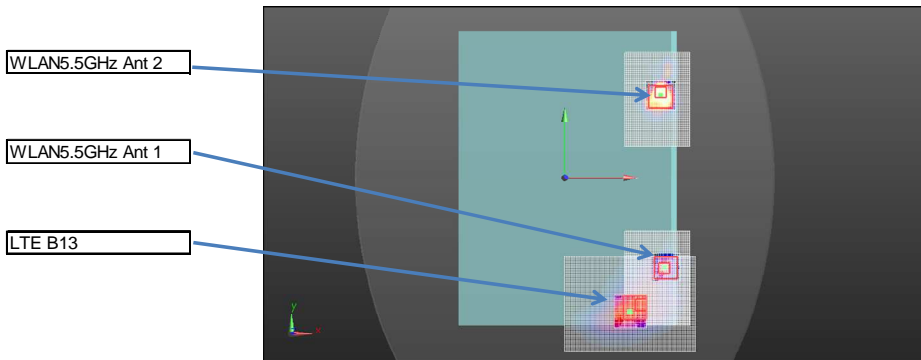
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	85.80	-126.80	-2.12		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	41.05
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	209.44

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.473	0.313		No.1 + No.2	0.786	41.05	0.017	No
Rear tilt(Edge 1 side)	0.473		0.808	No.1 + No.3	1.281	209.44	0.007	No

12.6.30. Rear tilt(Edge 1 side): LTE B13 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B13 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



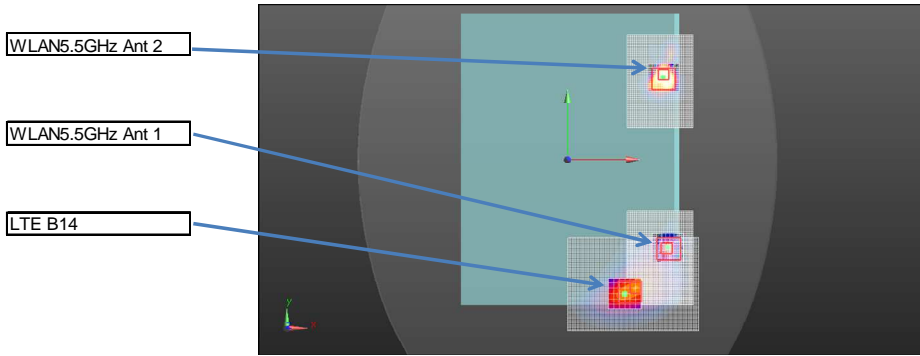
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B13	WWAN	1	53.00	-128.50	1.54		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	56.73
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	213.92

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.658	0.313		No.1 + No.2	0.971	56.73	0.017	No
Rear tilt(Edge 1 side)	0.658		0.808	No.1 + No.3	1.466	213.92	0.008	No

12.6.31. Rear tilt(Edge 1 side): LTE B14 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B14 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



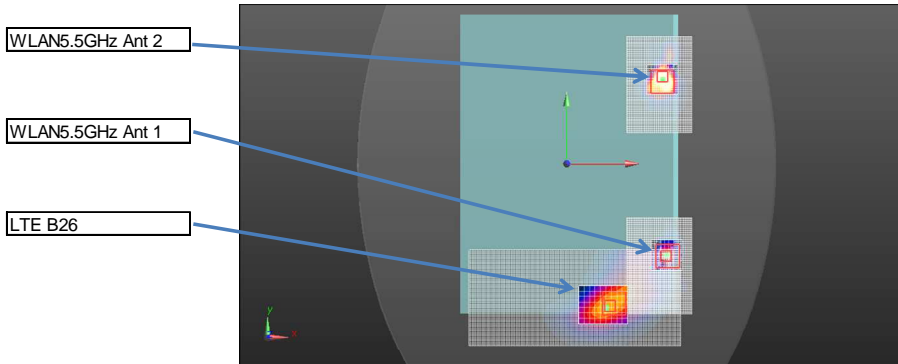
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B14	WWAN	1	62.50	-124.00	1.71		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	47.22
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	208.12

The Peak Location Separation Distance is computed by using the formula below:
 $SQRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.713	0.313		No.1 + No.2	1.026	47.22	0.022	No
Rear tilt(Edge 1 side)	0.713		0.808	No.1 + No.3	1.521	208.12	0.009	No

12.6.32. Rear tilt(Edge 1 side): LTE B26 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B26 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



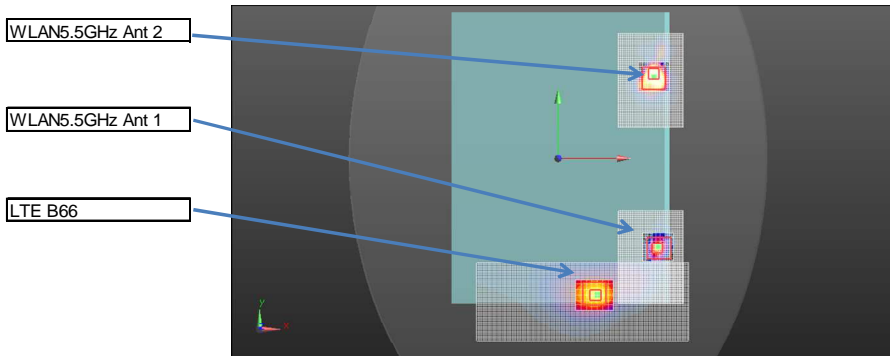
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B26	WWAN	1	37.00	-133.00	-2.97		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	71.43
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	221.50

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.710	0.313		No.1 + No.2	1.023	71.43	0.014	No
Rear tilt(Edge 1 side)	0.710		0.808	No.1 + No.3	1.518	221.50	0.008	No

12.6.33. Rear tilt(Edge 1 side): LTE B66 + WLAN 5.5G Ant 1 + WLAN 5.5G Ant 2

Combination LTE B66 + WLAN5.5GHz Ant 1 + WLAN5.5GHz Ant 2



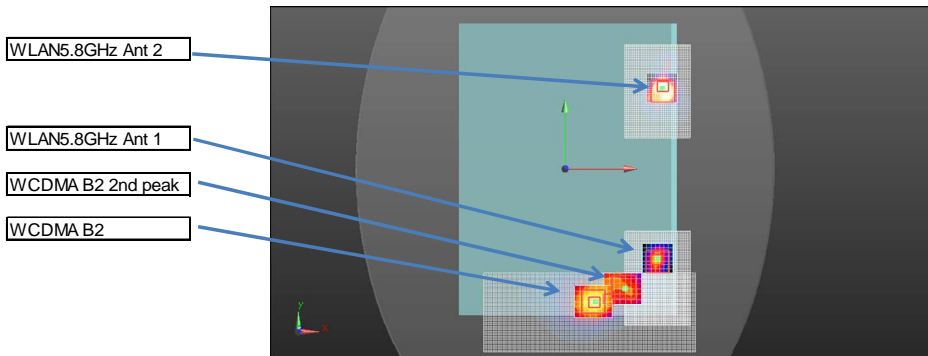
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B66	WWAN	1	35.00	-131.50	-2.87		
WLAN5.5GHz	Ant 1	2	90.80	-86.20	1.28	No1+No2	71.99
WLAN5.5GHz	Ant 2	3	87.60	82.60	1.32	No1+No3	220.51

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.870	0.313		No.1 + No.2	1.183	71.99	0.018	No
Rear tilt(Edge 1 side)	0.870		0.808	No.1 + No.3	1.678	220.51	0.010	No

12.6.34. Rear tilt(Edge 1 side): WCDMA B2 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination WCDMA B2 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	27.50	-128.00	-3.33		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	70.63
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	218.38

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.853	0.336		No.1 + No.2	1.189	70.63	0.018	No
Rear tilt(Edge 1 side)	0.853		0.729	No.1 + No.3	1.582	218.38	0.009	No

2nd peak

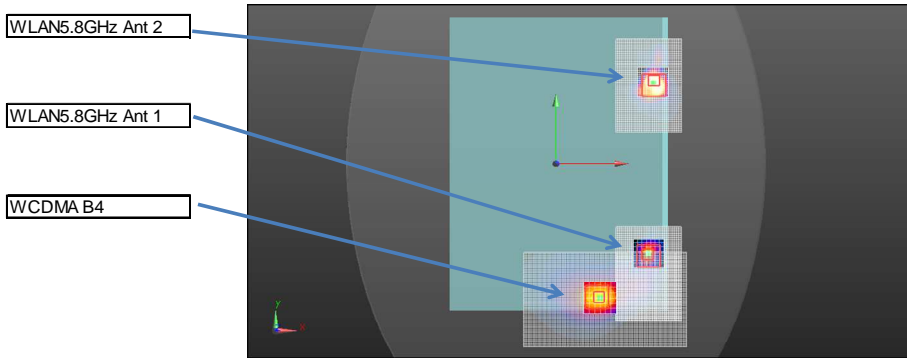
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B2	WWAN	1	35.50	-130.00	-3.21		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	65.76
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	218.21

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.336		No.1 + No.2	1.029	65.76	0.016	No
Rear tilt(Edge 1 side)	0.693		0.729	No.1 + No.3	1.422	218.21	0.008	No

12.6.35. Rear tilt(Edge 1 side): WCDMA B4 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination WCDMA B4 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



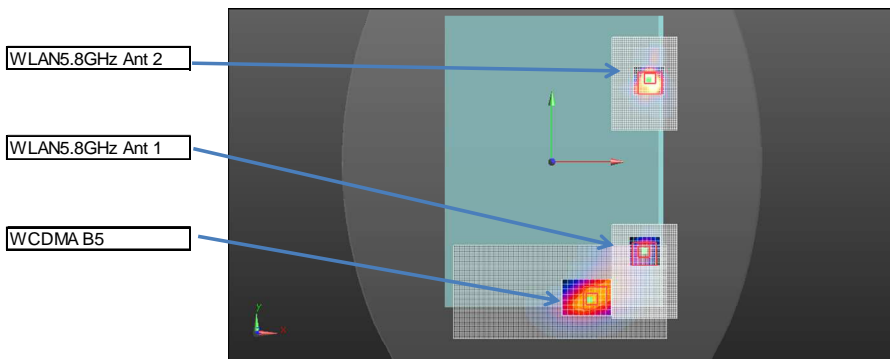
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B4	WWAN	1	40.50	-127.50	0.90		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	60.25
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	214.56

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.926	0.336		No.1 + No.2	1.262	60.25	0.024	No
Rear tilt(Edge 1 side)	0.926		0.729	No.1 + No.3	1.655	214.56	0.010	No

12.6.36. Rear tilt(Edge 1 side): WCDMA B5 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination WCDMA B5 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



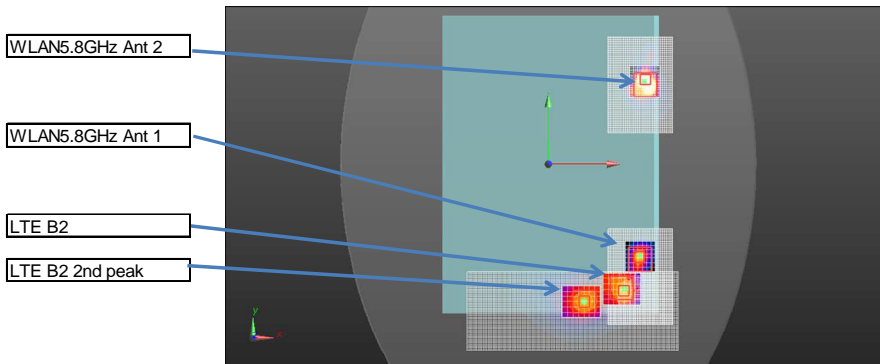
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
WCDMA B5	WWAN	1	34.50	-132.50	-2.91		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	68.17
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	220.87

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.685	0.336		No.1 + No.2	1.021	68.17	0.015	No
Rear tilt(Edge 1 side)	0.685		0.729	No.1 + No.3	1.414	220.87	0.008	No

12.6.37. Rear tilt(Edge 1 side): LTE B2 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B2 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	70.50	-120.50	-2.57		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	37.55
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	202.95

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.743	0.336		No.1 + No.2	1.079	37.55	0.030	No
Rear tilt(Edge 1 side)	0.743		0.729	No.1 + No.3	1.472	202.95	0.009	No

2nd peak

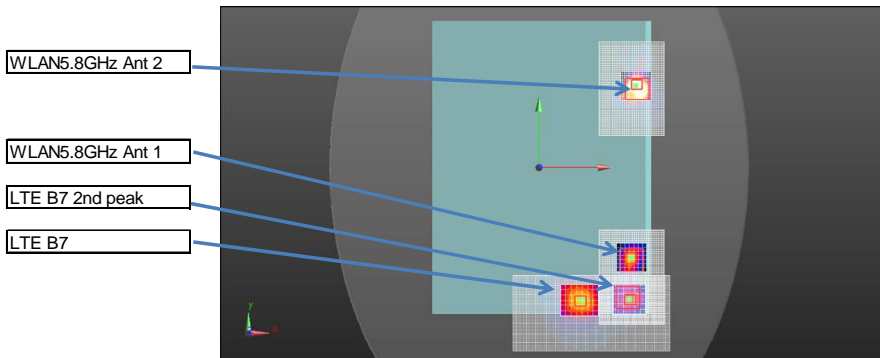
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B2	WWAN	1	34.00	-128.50	-3.18		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	65.88
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	217.13

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.693	0.336		No.1 + No.2	1.029	65.88	0.016	No
Rear tilt(Edge 1 side)	0.743		0.729	No.1 + No.3	1.472	217.13	0.008	No

12.6.38. Rear tilt(Edge 1 side): LTE B7 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B7 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	38.60	-128.00	-3.00		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	62.12
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	215.53

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.644	0.336		No.1 + No.2	0.980	62.12	0.016	No
Rear tilt(Edge 1 side)	0.644		0.729	No.1 + No.3	1.373	215.53	0.007	No

2nd peak

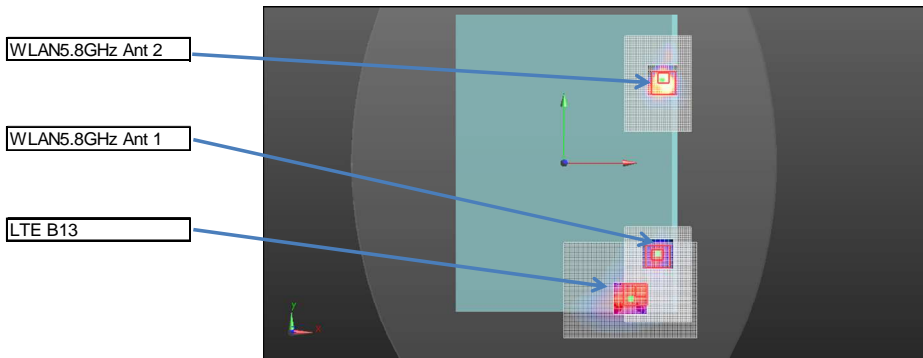
Mode	Ant	No	X mm	Y mm	Z mm	Combination	d: Calculated distance (mm)
LTE B7	WWAN	1	85.80	-126.80	-2.12		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	41.39
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	208.45

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.473	0.336		No.1 + No.2	0.809	41.39	0.018	No
Rear tilt(Edge 1 side)	0.473		0.729	No.1 + No.3	1.202	208.45	0.006	No

12.6.39. Rear tilt(Edge 1 side): LTE B13 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B13 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



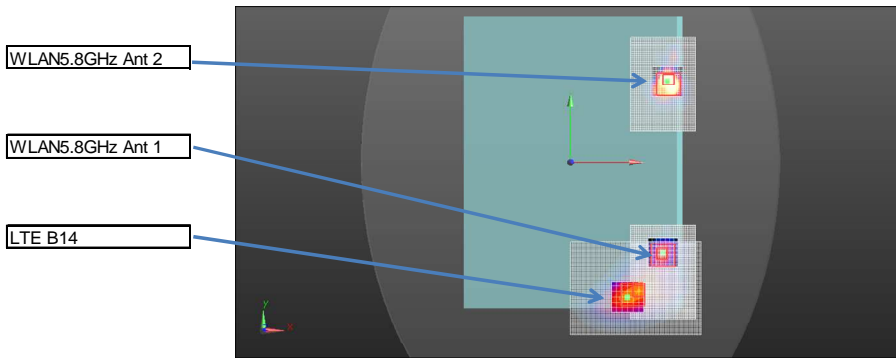
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B13	WWAN	1	53.00	-128.50	1.54		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	52.81
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	213.09

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.658	0.336		No.1 + No.2	0.994	52.81	0.019	No
Rear tilt(Edge 1 side)	0.658		0.729	No.1 + No.3	1.387	213.09	0.008	No

12.6.40. Rear tilt(Edge 1 side): LTE B14 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B14 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



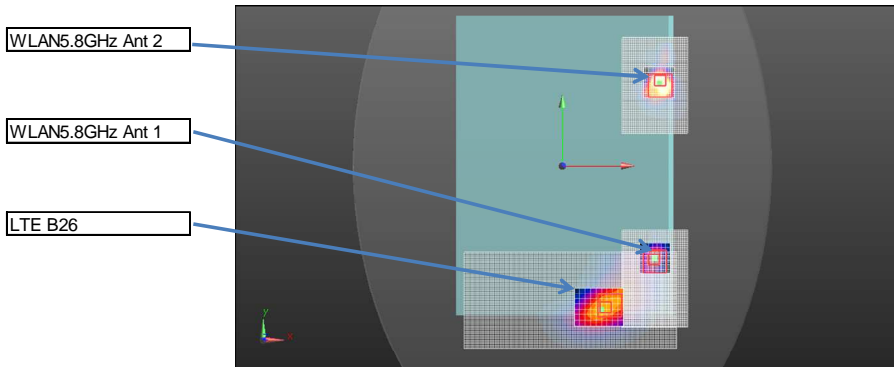
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B14	WWAN	1	62.50	-124.00	1.71		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	43.91
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	207.25

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.713	0.336		No.1 + No.2	1.049	43.91	0.024	No
Rear tilt(Edge 1 side)	0.713		0.729	No.1 + No.3	1.442	207.25	0.008	No

12.6.41. Rear tilt(Edge 1 side): LTE B26 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B26 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



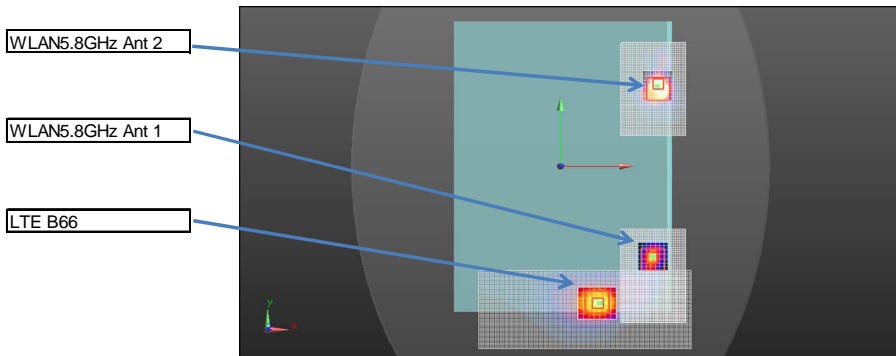
Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B26	WWAN	1	37.00	-133.00	-2.97		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	66.75
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	220.76

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.710	0.336		No.1 + No.2	1.046	66.75	0.016	No
Rear tilt(Edge 1 side)	0.710		0.729	No.1 + No.3	1.439	220.76	0.008	No

12.6.42. Rear tilt(Edge 1 side): LTE B66 + WLAN 5.8G Ant 1 + WLAN 5.8G Ant 2

Combination LTE B66 + WLAN5.8GHz Ant 1 + WLAN5.8GHz Ant 2



Mode	Ant	No	X	Y	Z	Combination	d: Calculated distance (mm)
LTE B66	WWAN	1	35.00	-131.50	-2.87		
WLAN5.8GHz	Ant 1	2	83.80	-85.60	1.29	No1+No2	67.12
WLAN5.8GHz	Ant 2	3	88.60	81.60	1.51	No1+No3	219.78

The Peak Location Separation Distance is computed by using the formula below:
 $\text{SQRT}((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

Test Position	No.1 WWAN	No.2 WLAN Ant 1	No.3 WLAN Ant 2	Combination	Σ 1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)
Rear tilt(Edge 1 side)	0.870	0.336		No.1 + No.2	1.206	67.12	0.020	No
Rear tilt(Edge 1 side)	0.870		0.729	No.1 + No.3	1.599	219.78	0.009	No

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

Appendixes

Refer to separated files for the following appendixes.

13489136H for SAR Appendix A: DUT and SAR Setup Photos

13489136H for SAR Appendix B: Antenna Dimensions and Separation Distances

13489136H for SAR Appendix C: SAR System Check Plots

13489136H for SAR Appendix D: Highest SAR Test Plots

13489136H for SAR Appendix E: SAR Liquid Tissue Ingredients

13489136H for SAR Appendix F: SAR Probe Calibration Certificates

13489136H for SAR Appendix G: SAR Dipole Calibration Certificates

END OF REPORT