



SAR EVALUATION REPORT

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

For
Tablet Device

**FCC ID: BCGA1674
Model Name: A1674, A1675**

**Report Number: 15U22428-S1V3
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Prepared for
**APPLE INC.
1 INFINITE LOOP, MS 26A
CUPERTINO, CA 95014-2084**

Prepared by
**UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



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1. Attestation of Test Results

Applicant Name	APPLE INC.			
FCC ID	BCGA1674			
Model Name	A1674, A1675			
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)			
	Licensed	DTS	U-NII	DSS (BT)
Standalone	1.190	1.040	1.010	1.173
Simultaneous TX	1.574	1.482	1.574	1.574
Date Tested	1/4/2016 to 2/1/2016			
Test Results	Pass			
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.				
Approved & Released By:		Prepared By:		
				
Bobby Bayani Senior Engineer UL Verification Services Inc.		Chakrit Thammanavarat Engineer UL Verification Services Inc.		

2. Test Specification, Methods and Procedures

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

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 616217 D04 SAR for laptop and tablets v01r02
- 690783 D01 SAR Listings on Grants v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01

3. Facilities and Accreditation

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

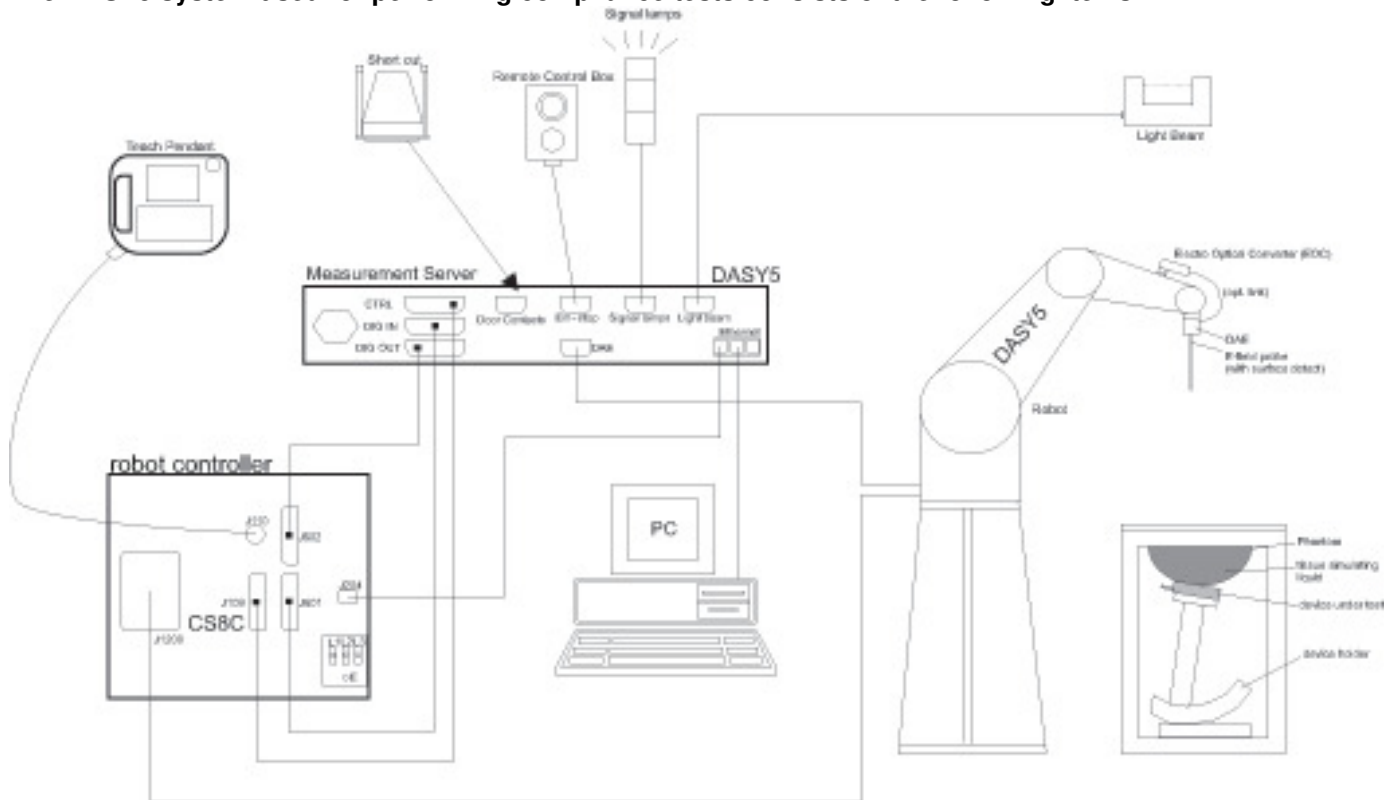
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	
SAR Lab F	
SAR Lab G	
SAR Lab H	

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

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

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



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

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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

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

Step 4: Power drift measurement

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

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

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	8753ES	MY40000980	4/17/2016
Dielectric Probe kit	SPEAG	DAK-3.5	1082	9/15/2016
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Traceable Calibration Control Co.	4242	140562250	8/24/2016

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	HP	8665B	3744A01084	5/8/2016
Power Meter	Keysight Technologies	N1912A	MY55196004	7/1/2016
Power Meter	Agilent	N1912A	MY50001018	10/19/2016
Power Sensor	Agilent	E9323A	MY53070007	3/2/2016
Power Sensor	Agilent	E9323A	MY53070005	4/29/2016
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	AMETEK	XT 15-4	1319A02778	N/A
Synthesized Signal Generator	HP	8665B	3744A01155	3/18/2016
Power Meter	HP	437B	3125U16345	6/15/2016
Power Meter	HP	437B	3125U12345	7/31/2016
Power Sensor	HP	8481A	2702A76223	9/3/2016
Power Sensor	HP	8481A	1926A27048	8/3/2016
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2141	N/A
DC Power Supply	BK PRECISION	1611	215-02292	N/A
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3751	11/18/2016
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3686	8/28/2016
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3936	7/21/2016
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	3885	9/18/2016
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	3773	4/22/2016
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	3929	4/22/2016
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3991	5/19/2016
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7335	3/13/2016
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1357	2/20/2016
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1360	3/12/2016
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4	1380	7/13/2016
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1239	4/16/2016
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1359	2/18/2016
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1433	3/12/2016
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1472	3/5/2016
System Validation Dipole	SPEAG	D750V3	1024	5/12/2016
System Validation Dipole	SPEAG	D750V3	1071	11/12/2016
System Validation Dipole	SPEAG	D835V2	4d002	11/12/2016
System Validation Dipole	SPEAG	D1750V2	1077	9/22/2016
System Validation Dipole	SPEAG	D1900V2	5d043	11/17/2016
System Validation Dipole	SPEAG	D1900V2	5d140	4/14/2016
System Validation Dipole	SPEAG	D2300V2	1002	3/13/2016
System Validation Dipole	SPEAG	D2450V2	748	2/20/2016
System Validation Dipole	SPEAG	D2450V2	899	3/13/2016
System Validation Dipole	SPEAG	D2600V2	1036	3/13/2016
System Validation Dipole	SPEAG	D5GHzV2	1168	11/13/2016
System Validation Dipole	SPEAG	D5GHzV2	1003	2/20/2016

Other

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Keysight	N1912A	MY55196004	7/1/2016
Power Sensor	Agilent	N1921A	MY5320001	9/24/2016
Base Station Simulator	R & S	CMW500	137877	8/10/2016
Base Station Simulator	R & S	CMW500	135390	4/6/2016
Base Station Simulator	R & S	CMW500	134853	6/30/2016
Base Station Simulator	R & S	CMW500	124593	7/15/2016
Base Station Simulator	R & S	CMW500	134852	5/13/2016
Base Station Simulator	R & S	CMW500	135393	3/18/2016

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

Model A1674, A1675 is a tablet with multimedia functions (music, application support, and video)

Cellular GSM/GPRS/EGPRS/CDMA2000 1xRTT/1xAdvanced/EVDO Rev.A/WCDMA/HSPA+/DC-HSDPA/LTE FDD & Carrier Aggregation/TDD/TD-SCDMA radio

IEEE 802.11a/b/g/n/ac radio (MIMO 2x2) and Bluetooth radio

Model tested: A1674. Both Model A1674 and A1675 have identical PCB layout, design and functionality, except that A1674 supports second electronic-UICC based SIM or "soft SIM" (called eSIM) beside the regular UICC based SIM and A1675 will come with eSIM removed. RF and electromagnetic characteristics are independent of the eSIM element. Both models have exactly the same technology and band support.

There are two suppliers of the Wi-Fi/Bluetooth radio modules to support the production volumes of the device. The two variants are referenced in this report as:

Module 1 = Wi-Fi/BT module supplier 1

Module 2 = Wi-Fi/BT module supplier 2

The Wi-Fi/Bluetooth radio modules have the same mechanical outline (e.g., the same package dimension and pin-out layout), use the same on-board antenna matching circuit, have an identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances.

Complete SAR evaluation is performed on the device with one Wi-Fi/Bluetooth radio module, and then the test is repeated on the device with the other Wi-Fi/Bluetooth module at the highest SAR value.

Device Dimension	Overall (Length x Width): 240 mm x 169.47 mm Overall Diagonal: 287.1 mm Display Diagonal: 245.7 mm
Back Cover	☒ The rechargeable battery is not user accessible.
Battery Options	☒ The rechargeable battery is not user accessible.
AirPlay	AirPlay mode enabled devices transfer data directly between each other ☒ AirPlay (Wi-Fi 2.4 GHz) ☒ AirPlay (Wi-Fi 5 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EGPRS (8PSK)	GPRS Multi-Slot Class: ☐ Class 8 - 1 Up, 4 Down ☒ Class 10 - 2 Up, 4 Down ☐ Class 12 - 4 Up, 4 Down ☐ Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25%
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No			
CDMA (CDMA2000)	BC0 BC1 BC10 BC15	1xRTT (Voice & Data) 1xEV-DO Rel. 0 1xEV-DO Rev. A 1xAdvanced		100%
	Does this device support SV-DO (1xRTT-1xEVDO)? ☐ Yes ☒ No			
W-CDMA (UMTS)	Band II Band IV Band V	UMTS Rel. 99 (Voice & Data) HSDPA (Rel. 5) HSUPA (Rel. 6) DC-HSDPA (Rel. 8) HSPA+ (Rel. 7)		100%
LTE	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 27 FDD Band 30 TDD Band 41	QPSK 16QAM ☐ Rel. 10 Does not support Carrier Aggregation (CA) ☒ Rel. 10 Carrier Aggregation (1 Uplink and 2 Downlinks) ☐ Rel. 11 Carrier Aggregation (2 Uplink and 2 Downlinks)		100% (FDD) 63.3% (TDD)
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
Wi-Fi	2.4 GHz	802.11b 802.11g 802.11n (HT20)		100%
	5 GHz	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80)		100%
	Does this device support bands 5.60 ~ 5.65 GHz? ☒ Yes ☐ No			
	Does this device support Band gap channel? ☒ Yes ☐ No			
Bluetooth	2.4 GHz	Version 4.2 + LE		77.5% (DH5)

6.3. Maximum Output Power from Tune-up Procedure

KDB 447498 sec.4.1.(3) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit

RF Air interface	Mode	Max. RF Output Power (dBm)				Max. RF Output Power (dBm)			
		Ant. C				Ant. D			
		Emission Power		Body Power		Emission Power		Body Power	
		Burst	Frame	Burst	Frame	Burst	Frame	Burst	Frame
GSM850	GPRS (1 slot)	33.5	24.5	26.5	17.5	32.0	23.0	27.5	18.5
	GPRS 2 slots	32.0	26.0	23.5	17.5	30.5	24.5	24.5	18.5
	EGPRS 1 slot	29.0	20.0	26.5	17.5	27.0	18.0	27.0	18.0
	EGPRS 2 slots	29.0	23.0	23.5	17.5	27.0	21.0	24.5	18.5
GSM1900	GPRS (1 slot)	29.5	20.5	22.3	13.3	27.5	18.5	23.0	14.0
	GPRS 2 slots	29.5	23.5	19.3	13.3	26.5	20.5	20.0	14.0
	EGPRS 1 slot	28.0	19.0	22.3	13.3	25.0	16.0	23.0	14.0
	EGPRS 2 slots	28.0	22.0	19.3	13.3	25.0	19.0	20.0	14.0

RF Air interface	Mode	Max. RF Output Power (dBm)			
		Ant. C		Ant. D	
		Emission Power	Body Power	Emission Power	Body Power
W-CDMA Band V	R99	25.0	17.5	23.5	17.5
	HSDPA	25.0	17.5	23.5	17.5
	HSUPA	25.0	17.5	23.5	17.5
	DC-HSDPA	25.0	17.5	23.5	17.5
W-CDMA Band IV	R99	24.5	13.5	22.0	13.5
	HSDPA	24.5	13.5	22.0	13.5
	HSUPA	24.5	13.5	22.0	13.5
	DC-HSDPA	24.5	13.5	22.0	13.5
W-CDMA Band II	R99	24.5	13.5	22.0	13.8
	HSDPA	24.5	13.5	22.0	13.8
	HSUPA	24.5	13.5	22.0	13.8
	DC-HSDPA	24.5	13.5	22.0	13.8
CDMA BC0	1xRTT	24.5	17.5	23.5	17.5
	1xAdvanced	24.5	17.5	23.5	17.5
	1xEVDO Rel. 0	24.5	17.5	23.5	17.5
	1xEVDO Rev. A	24.5	17.5	23.5	17.5
CDMA BC1	1xRTT	24.5	13.5	22.0	13.8
	1xAdvanced	24.5	13.5	22.0	13.8
	1xEVDO Rel. 0	24.5	13.5	22.0	13.8
	1xEVDO Rev. A	24.5	13.5	22.0	13.8
CDMA BC10	1xRTT	25.0	17.5	23.5	17.5
	1xAdvanced	25.0	17.5	23.5	17.5
	1xEVDO Rel. 0	25.0	17.5	23.5	17.5
	1xEVDO Rev. A	25.0	17.5	23.5	17.5
CDMA BC15	1xRTT	24.5	13.5	22.0	13.5
	1xAdvanced	24.5	13.5	22.0	13.5
	1xEVDO Rel. 0	24.5	13.5	22.0	13.5
	1xEVDO Rev. A	24.5	13.5	22.0	13.5
LTE Band 2	QPSK	24.5	13.3	22.0	13.8
	16QAM	23.5	13.3	21.0	13.8
LTE Band 4	QPSK	24.0	13.8	21.0	13.5
	16QAM	23.0	13.8	20.0	13.5
LTE Band 5	QPSK	24.5	17.5	22.5	17.8
	16QAM	23.5	17.5	21.5	17.8
LTE Band 7	QPSK	22.3	12.0	21.0	11.8
	16QAM	21.3	12.0	20.0	11.8
LTE Band 12	QPSK	25.0	18.8	23.0	19.0
	16QAM	24.0	18.8	22.0	19.0
LTE Band 13	QPSK	24.0	19.0	22.4	19.0
	16QAM	23.0	19.0	21.4	19.0
LTE Band 17	QPSK	25.0	18.8	23.0	19.0
	16QAM	24.0	18.8	22.0	19.0
LTE Band 25	QPSK	24.5	13.3	22.0	13.8
	16QAM	23.5	13.3	21.0	13.8
LTE Band 26	QPSK	24.5	17.5	22.5	17.8
	16QAM	23.5	17.5	21.5	17.8
LTE Band 27	QPSK	25.0	17.5	22.5	17.8
	16QAM	24.0	17.5	21.5	17.8
LTE Band 30	QPSK	22.3	12.8	21.0	12.5
	16QAM	21.3	12.8	20.0	12.5
LTE Band 41	QPSK	23.0	14.5	21.5	14.0
	16QAM	22.0	14.5	20.5	14.0

Band (GHz)	No. of Transmitters	Mode	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Antenna A	Antenna B	Antenna D (P _{max})	Antenna D (P _{Low})	
2.4	1 Tx	802.11b	1	2412	16.5	16.0	11.0	4.0	Yes
			2	2417	16.5	16.0	11.0	4.0	
			6	2437	16.5	16.0	11.0	4.0	
			10	2457	16.5	16.0	11.0	4.0	
			11	2462	16.5	16.0	11.0	4.0	
			12	2467	16.5	16.0	11.0	4.0	
			13	2472	14.0	14.0	11.0	4.0	
		802.11g	1	2412	15.0	15.0	11.0	4.0	No
			2	2417	16.5	16.0	11.0	4.0	
			6	2437	16.5	16.0	11.0	4.0	
			10	2457	16.5	16.0	11.0	4.0	
			11	2462	14.0	14.0	11.0	4.0	
			12	2467	12.0	12.0	11.0	4.0	
			13	2472	3.0	3.0	3.0	3.0	
		802.11n HT20	1	2412	15.0	15.0	11.0	4.0	No
			2	2417	16.5	16.0	11.0	4.0	
			6	2437	16.5	16.0	11.0	4.0	
			10	2457	16.5	16.0	11.0	4.0	
			11	2462	14.0	14.0	11.0	4.0	
			12	2467	12.0	12.0	11.0	4.0	
			13	2472	3.0	3.0	3.0	3.0	
	2 Tx	802.11g CDD	1	2412	14.0	14.0			Yes
			2	2417	16.5	16.0			
			6	2437	16.5	16.0			
			10	2457	16.5	16.0			
			11	2462	13.0	13.0			
			12	2467	11.0	11.0			
			13	2472	2.0	2.0			
		802.11n HT20 CDD	1	2412	14.0	14.0			No
			2	2417	16.5	16.0			
			6	2437	16.5	16.0			
			10	2457	16.5	16.0			
			11	2462	13.0	13.0			
			12	2467	11.0	11.0			
			13	2472	2.0	2.0			
		802.11n HT20 STBC	1	2412	14.0	14.0			No
			2	2417	16.5	16.0			
			6	2437	16.5	16.0			
			10	2457	16.5	16.0			
			11	2462	13.0	13.0			
			12	2467	11.0	11.0			
			13	2472	2.0	2.0			
		802.11n HT20 SDM	1	2412	14.0	14.0			No
			2	2417	16.5	16.0			
			6	2437	16.5	16.0			
			10	2457	16.5	16.0			
			11	2462	13.0	13.0			
			12	2467	11.0	11.0			
			13	2472	2.0	2.0			

Band (GHz)	No. of Transmitters	Mode	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)				SAR Test (Yes/No)
					Antenna A	Antenna B	Antenna D (P _{max})	Antenna D (P _{Low})	
2.4	2 Tx	802.11g CDD	1	2412	14.0		11.0		Yes
			2	2417	16.5		11.0		
			6	2437	16.5		11.0		
			10	2457	16.5		11.0		
			11	2462	13.0		11.0		
			12	2467	11.0		11.0		
			13	2472	2.0		2.0		
		802.11n HT20 CDD	1	2412	14.0		11.0		No
			2	2417	16.5		11.0		
			6	2437	16.5		11.0		
			10	2457	16.5		11.0		
			11	2462	13.0		11.0		
			12	2467	11.0		11.0		
			13	2472	2.0		2.0		
		802.11n HT20 STBC	1	2412	14.0		11.0		No
			2	2417	16.5		11.0		
			6	2437	16.5		11.0		
			10	2457	16.5		11.0		
			11	2462	13.0		11.0		
			12	2467	11.0		11.0		
			13	2472	2.0		2.0		
		802.11n HT20 SDM	1	2412	14.0		11.0		No
			2	2417	16.5		11.0		
			6	2437	16.5		11.0		
			10	2457	16.5		11.0		
			11	2462	13.0		11.0		
			12	2467	11.0		11.0		
			13	2472	2.0		2.0		
2.4	2 Tx	802.11g CDD	1	2412	14.0			4.0	Yes
			2	2417	16.5			4.0	
			6	2437	16.5			4.0	
			10	2457	16.5			4.0	
			11	2462	13.0			4.0	
			12	2467	11.0			4.0	
			13	2472	2.0			2.0	
		802.11n HT20 CDD	1	2412	14.0			4.0	No
			2	2417	16.5			4.0	
			6	2437	16.5			4.0	
			10	2457	16.5			4.0	
			11	2462	13.0			4.0	
			12	2467	11.0			4.0	
			13	2472	2.0			2.0	
		802.11n HT20 STBC	1	2412	14.0			4.0	No
			2	2417	16.5			4.0	
			6	2437	16.5			4.0	
			10	2457	16.5			4.0	
			11	2462	13.0			4.0	
			12	2467	11.0			4.0	
			13	2472	2.0			2.0	
		802.11n HT20 SDM	1	2412	14.0			4.0	No
			2	2417	16.5			4.0	
			6	2437	16.5			4.0	
			10	2457	16.5			4.0	
			11	2462	13.0			4.0	
			12	2467	11.0			4.0	
			13	2472	2.0			2.0	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.2	802.11a	1 Tx	36	5180	16.5	16.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
	802.11n	1 Tx HT20	36	5180	16.5	16.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		1 Tx HT40	38	5190	13.5	13.5	No
			46	5230	17.0	17.0	
	802.11ac	1 Tx VHT20	36	5180	16.5	16.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		1 Tx VHT40	38	5190	13.5	13.5	No
			46	5230	17.0	17.0	
		1 Tx VHT80	42	5210	13.0	13.0	No

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.2	802.11a	2 Tx CDD	36	5180	14.5	14.5	No
			40	5200	16.0	16.0	
			44	5220	16.0	16.0	
			48	5240	16.0	16.0	
	802.11n	2 Tx HT20 CDD	36	5180	14.5	14.5	No
			40	5200	16.0	16.0	
			44	5220	16.0	16.0	
			48	5240	16.0	16.0	
		2 Tx HT20 STBC	36	5180	14.5	14.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		2 Tx HT20 SDM	36	5180	14.5	14.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		2 Tx HT40 CDD	38	5190	12.5	12.5	No
			46	5230	16.0	16.0	
		2 Tx HT40 STBC	38	5190	12.5	12.5	No
			46	5230	17.0	17.0	
		2 Tx HT40 SDM	38	5190	12.5	12.5	No
			46	5230	17.0	17.0	
	802.11ac	2 Tx VHT20 CDD	36	5180	14.5	14.5	No
			40	5200	16.0	16.0	
			44	5220	16.0	16.0	
			48	5240	16.0	16.0	
		2 Tx VHT20 STBC	36	5180	14.5	14.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		2 Tx VHT20 SDM	36	5180	14.5	14.5	No
			40	5200	17.0	17.0	
			44	5220	17.0	17.0	
			48	5240	17.0	17.0	
		2 Tx VHT40 CDD	38	5190	12.5	12.5	No
			46	5230	16.0	16.0	
		2 Tx VHT40 STBC	38	5190	12.5	12.5	No
			46	5230	17.0	17.0	
		2 Tx VHT40 SDM	38	5190	12.5	12.5	No
			46	5230	17.0	17.0	
		2 Tx VHT80 CDD	42	5210	12.0	12.0	No
		2 Tx VHT80 STBC	42	5210	12.0	12.0	No
		2 Tx VHT80 SDM	42	5210	12.0	12.0	No

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.3	802.11a	1 Tx	52	5260	17.5	17.5	No
			56	5280	17.5	17.5	
			60	5300	17.5	17.5	
			64	5320	16.5	16.5	
	802.11n	1 Tx HT20	52	5260	17.5	17.5	No
			56	5280	17.5	17.5	
			60	5300	17.5	17.5	
			64	5320	16.5	16.5	
		1 Tx HT40	54	5270	17.5	17.5	Yes
			62	5310	15.0	15.0	
	802.11ac	1 Tx VHT20	52	5260	17.5	17.5	No
			56	5280	17.5	17.5	
			60	5300	17.5	17.5	
			64	5320	16.5	16.5	
		1 Tx VHT40	54	5270	17.5	17.5	No
			62	5310	15.0	15.0	
		1 Tx VHT80	58	5290	14.0	14.0	No

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.3	802.11a	2 Tx CDD	52	5260	16.0	16.0	No
			56	5280	16.0	16.0	
			60	5300	16.0	16.0	
			64	5320	14.0	14.0	
	802.11n	2 Tx HT20 CDD	52	5260	16.0	16.0	No
			56	5280	16.0	16.0	
			60	5300	16.0	16.0	
			64	5320	14.0	14.0	
		2 Tx HT20 STBC	52	5260	17.0	17.0	No
			56	5280	17.0	17.0	
			60	5300	17.0	17.0	
			64	5320	14.0	14.0	
		2 Tx HT20 SDM	52	5260	17.0	17.0	No
			56	5280	17.0	17.0	
			60	5300	17.0	17.0	
			64	5320	14.0	14.0	
		2 Tx HT40 CDD	54	5270	16.0	16.0	No
			62	5310	13.5	13.5	
		2 Tx HT40 STBC	54	5270	17.0	17.0	Yes
			62	5310	13.5	13.5	
		2 Tx HT40 SDM	54	5270	17.0	17.0	No
			62	5310	13.5	13.5	
	802.11ac	2 Tx VHT20 CDD	52	5260	16.0	16.0	No
			56	5280	16.0	16.0	
			60	5300	16.0	16.0	
			64	5320	14.0	14.0	
		2 Tx VHT20 STBC	52	5260	17.0	17.0	No
			56	5280	17.0	17.0	
			60	5300	17.0	17.0	
			64	5320	14.0	14.0	
		2 Tx VHT20 SDM	52	5260	17.0	17.0	No
			56	5280	17.0	17.0	
			60	5300	17.0	17.0	
			64	5320	14.0	14.0	
		2 Tx VHT40 CDD	54	5270	16.0	16.0	No
			62	5310	13.5	13.5	
		2 Tx VHT40 STBC	54	5270	17.0	17.0	No
			62	5310	13.5	13.5	
		2 Tx VHT40 SDM	54	5270	17.0	17.0	No
			62	5310	13.5	13.5	
		2 Tx VHT80 CDD	58	5290	12.5	12.5	No
		2 Tx VHT80 STBC	58	5290	12.5	12.5	No
		2 Tx VHT80 SDM	58	5290	12.5	12.5	No

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.5	802.11a	1 Tx	100	5500	16.0	16.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	15.5	15.5	
			144	5720	16.0	16.5	
	802.11n	1 Tx HT20	100	5500	16.0	16.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	15.5	15.5	
			144	5720	16.0	16.5	
		1 Tx HT40	102	5510	14.0	14.0	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	16.0	16.0	
			142	5710	16.0	16.5	
	802.11ac	1 Tx VHT20	100	5500	16.0	16.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	15.5	15.5	
			144	5720	16.0	16.5	
		1 Tx VHT40	102	5510	14.0	14.0	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	16.0	16.0	
			142	5710	16.0	16.5	
		1 Tx VHT80	106	5530	14.5	14.5	Yes
			122	5610	16.0	16.5	
			138	5690	16.0	16.5	

Band (GHz)	Mode	Mode	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.5	802.11a	2 Tx CDD	100	5500	14.5	14.5	No
			104	5520	15.5	15.5	
			108	5540	15.5	15.5	
			112	5560	15.5	15.5	
			116	5580	15.5	15.5	
			120	5600	15.5	15.5	
			124	5620	15.5	15.5	
			128	5640	15.5	15.5	
			132	5660	15.5	15.5	
			136	5680	15.5	15.5	
			140	5700	13.5	13.5	
			144	5720	15.5	15.5	
	802.11n	2 Tx HT20 CDD	100	5500	14.5	14.5	No
			104	5520	15.5	15.5	
			108	5540	15.5	15.5	
			112	5560	15.5	15.5	
			116	5580	15.5	15.5	
			120	5600	15.5	15.5	
			124	5620	15.5	15.5	
			128	5640	15.5	15.5	
			132	5660	15.5	15.5	
			136	5680	15.5	15.5	
			140	5700	13.5	13.5	
			144	5720	15.5	15.5	
		2 Tx HT20 STBC	100	5500	14.5	14.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	13.5	13.5	
			144	5720	16.0	16.5	
		2 Tx HT20 SDM	100	5500	14.5	14.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	13.5	13.5	
			144	5720	16.0	16.5	

Band (GHz)	Mode	Mode	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.5	802.11n	2 Tx HT40 CDD	102	5510	13.5	13.5	No
			110	5550	15.5	15.5	
			118	5590	15.5	15.5	
			126	5630	15.5	15.5	
			134	5670	15.0	15.0	
			142	5710	15.5	15.5	
		2 Tx HT40 STBC	102	5510	13.5	13.5	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	15.0	15.0	
			142	5710	16.0	16.5	
		2 Tx HT40 SDM	102	5510	13.5	13.5	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	15.0	15.0	
			142	5710	16.0	16.5	
	802.11ac	2 Tx VHT20 CDD	100	5500	14.5	14.5	No
			104	5520	15.5	15.5	
			108	5540	15.5	15.5	
			112	5560	15.5	15.5	
			116	5580	15.5	15.5	
			120	5600	15.5	15.5	
			124	5620	15.5	15.5	
			128	5640	15.5	15.5	
			132	5660	15.5	15.5	
			136	5680	15.5	15.5	
			140	5700	13.5	13.5	
			144	5720	15.5	15.5	
		2 Tx VHT20 STBC	100	5500	14.5	14.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	13.5	13.5	
			144	5720	16.0	16.5	
		2 Tx VHT20 SDM	100	5500	14.5	14.5	No
			104	5520	16.0	16.5	
			108	5540	16.0	16.5	
			112	5560	16.0	16.5	
			116	5580	16.0	16.5	
			120	5600	16.0	16.5	
			124	5620	16.0	16.5	
			128	5640	16.0	16.5	
			132	5660	16.0	16.5	
			136	5680	16.0	16.5	
			140	5700	13.5	13.5	
			144	5720	16.0	16.5	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.5	802.11ac	2 Tx VHT40 CDD	102	5510	13.5	13.5	No
			110	5550	15.5	15.5	
			118	5590	15.5	15.5	
			126	5630	15.5	15.5	
			134	5670	15.0	15.0	
			142	5710	15.5	15.5	
		2 Tx VHT40 STBC	102	5510	13.5	13.5	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	15.0	15.0	
			142	5710	16.0	16.5	
		2 Tx VHT40 SDM	102	5510	13.5	13.5	No
			110	5550	16.0	16.5	
			118	5590	16.0	16.5	
			126	5630	16.0	16.5	
			134	5670	15.0	15.0	
			142	5710	16.0	16.5	
		2 Tx VHT80 CDD	106	5530	13.5	13.5	Yes
			122	5610	16.0	16.5	
			138	5690	16.0	16.5	
		2 Tx VHT80 STBC	106	5530	13.5	13.5	No
			122	5610	16.0	16.5	
			138	5690	16.0	16.5	
		2 Tx VHT80 SDM	106	5530	13.5	13.5	No
			122	5610	16.0	16.5	
			138	5690	16.0	16.5	

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.8	802.11a	1 Tx	149	5745	16.5	16.5	Yes
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	16.5	16.5	
	802.11n	1 Tx HT20	149	5745	16.5	16.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	16.5	16.5	
		1 Tx HT40	151	5755	13.0	13.0	Yes
			159	5795	16.5	16.5	
	802.11ac	1 Tx VHT20	149	5745	16.5	16.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	16.5	16.5	
		1 Tx VHT40	151	5755	13.0	13.0	No
			159	5795	16.5	16.5	
		1 Tx VHT80	155	5775	13.5	13.5	No

Band (GHz)	Mode	Mode	Ch #	Freq. (MHz)	Max. RF Output Power (dBm)		SAR Test (Yes/No)
					Antenna A	Antenna B	
5.8	802.11a	2 Tx CDD	149	5745	14.5	14.5	Yes
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
	802.11n	2 Tx HT20 CDD	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT20 STBC	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT20 SDM	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT40 CDD	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
		2 Tx HT40 STBC	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
		2 Tx HT40 SDM	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
	802.11ac	2 Tx HT20 CDD	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT20 STBC	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT20 SDM	149	5745	14.5	14.5	No
			153	5765	16.5	17.0	
			157	5785	16.5	17.0	
			161	5805	16.5	17.0	
			165	5825	15.0	15.0	
		2 Tx HT40 CDD	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
		2 Tx HT40 STBC	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
		2 Tx HT40 SDM	151	5755	12.0	12.0	No
			159	5795	15.5	15.5	
		2 Tx VHT80 CDD	155	5775	12.5	12.5	No
		2 Tx VHT80 STBC	155	5775	12.5	12.5	No
		2 Tx VHT80 SDM	155	5775	12.5	12.5	No

RF Air interface	Mode	Max. RF Output Power (dBm)			
		Ant. B		Ant. D	
		Max Power	Low Power	Max Power	Low Power
Bluetooth	GFSK	17.0	9.5	12.0	5.0

6.4. General LTE SAR Test and Reporting Considerations

Item	Description					
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	18700/1860	18675/1857.5	18650/1855	18625/1852.5	18615/1851.5
	Mid	18900/1880	18900/1880	18900/1880	18900/1880	18900/1880
	High	19100/1900	19125/1902.5	19150/1905	19175/1907.5	19185/1908.5
	Band 4	Frequency range: 1710 - 1755 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	20050/1720	20025/1717.5	20000/1715	19975/1712.5	19965/1711.5
	Mid	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5
	High	20300/1745	20325/1747.5	20350/1750	20375/1752.5	20385/1753.5
	Band 5	Frequency range: 824 - 849 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low			20450/829	20425/826.5	20415/825.5
	Mid			20525/836.5	20525/836.5	20525/836.5
	High			20600/844	20625/846.5	20635/847.5
	Band 7	Frequency range: 2500 - 2570 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low	20850/2510	20825/2507.5	20800/2505	20775/2502.5	
	Mid	21100/2535	21100/2535	21100/2535	21100/2535	
	High	21350/2560	21375/2562.5	21400/2565	21425/2567.5	
	Band 12	Frequency range: 699 – 716 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low			23060/704	23035/701.5	23025/700.5
	Mid			23095/707.5	23095/707.5	23095/707.5
	High			23130/711	23155/713.5	23165/714.5
	Band 13	Frequency range: 777 - 787 MHz				
		Channel Bandwidth				
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz
	Low				23205/779.5	
	Mid			23230/782	23230/782	
	High				23255/784.5	

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 17	Frequency range: 704 - 716 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				23755/ 706.5		
	Mid			23790/ 710	23790/ 710		
	High				23825/ 713.5		
	Band 25	Frequency range: 1850 - 1915 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7
	Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5
	High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3
	Band 26	Frequency range: 814 - 849 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7
	Mid			26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5
	High			26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3
	Band 27	Frequency range: 807 - 824 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				27065/ 809.5	27055/ 808.5	27047/ 807.7
	Mid			27125/ 815.5	27125/ 815.5	27125/ 815.5	27125/ 815.5
	High				27185/ 821.5	27195/ 822.5	27203/ 823.3
	Band 30	Frequency range: 2305 - 2315 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				27685/ 2307.5		
	Mid			27710/ 2310	27710/ 2310		
	High				27735/ 2312.5		
	Band 41	Frequency range: 2496 - 2690 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	39750 / 2506.0					
	Low-Mid	40185 / 2549.5					
	Mid	40620 / 2593.0					
	Mid-High	41055 / 2636.5					
	High	41490 / 2680.0					
LTE transmitter and antenna implementation	LTE has two (2) TX/RX antennas.						

Maximum power reduction (MPR)	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (RB)</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr></table> MPR Built-in by design A-MPR (additional MPR) was disabled during SAR testing	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3								Modulation	Channel bandwidth / Transmission bandwidth (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
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3																																															
Modulation	Channel bandwidth / Transmission bandwidth (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																																								
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																														

6.5. LTE (TDD) Considerations

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

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 41 supports 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 $\times (T_s) \times \# \text{ of S} + \# \text{ of U}$

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

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

6.6. Antenna Dimensions and Separation Distances

Refer to separate filing document.

7. RF Exposure Conditions (Test Configurations)

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 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**Antennas < 50mm to adjacent edges**

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Calculated Threshold Value				
			dBm	m W	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Rear	Edge 1	Edge 2	Edge 3	Edge 4
Cellular Primary Tx/Rx (Antenna C)														
Cellular	GPRS 2 Slots	848.8	23.50	56	4	3.7	40.7	226	93	10.3 -MEASURE-	10.3 -MEASURE-	13 -EXEMPT-	> 50 mm	> 50 mm
Cellular	GPRS 2 Slots	1909.8	19.30	21	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	W-CDMA 2	1907.6	13.50	22	4	3.7	40.7	226	93	6.1 -MEASURE-	6.1 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	40.7	226	93	10.3 -MEASURE-	10.3 -MEASURE-	13 -EXEMPT-	> 50 mm	> 50 mm
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	40.7	226	93	10.3 -MEASURE-	10.3 -MEASURE-	13 -EXEMPT-	> 50 mm	> 50 mm
Cellular	CDMA BC1	1908.75	13.50	22	4	3.7	40.7	226	93	6.1 -MEASURE-	6.1 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	40.7	226	93	10.2 -MEASURE-	10.2 -MEASURE-	12 -EXEMPT-	> 50 mm	> 50 mm
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 2	1900	13.30	21	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 4	1754.3	13.80	24	4	3.7	40.7	226	93	6.4 -MEASURE-	6.4 -MEASURE-	0.8 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 5	844	17.50	56	4	3.7	40.7	226	93	10.3 -MEASURE-	10.3 -MEASURE-	13 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 7	2560	12.00	16	4	3.7	40.7	226	93	5.1 -MEASURE-	5.1 -MEASURE-	0.6 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 12	711	18.80	76	4	3.7	40.7	226	93	12.8 -MEASURE-	12.8 -MEASURE-	16 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 13	782	19.00	79	4	3.7	40.7	226	93	14 -MEASURE-	14 -MEASURE-	17 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 17	710	18.80	76	4	3.7	40.7	226	93	12.8 -MEASURE-	12.8 -MEASURE-	16 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 25	1905	13.30	21	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 26	841.4	17.50	56	4	3.7	40.7	226	93	10.3 -MEASURE-	10.3 -MEASURE-	13 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 27	815.5	17.50	56	4	3.7	40.7	226	93	10.1 -MEASURE-	10.1 -MEASURE-	12 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 30	2310	12.80	19	4	3.7	40.7	226	93	5.8 -MEASURE-	5.8 -MEASURE-	0.7 -EXEMPT-	> 50 mm	> 50 mm
Cellular	LTE Band 41	2680	14.50	28	4	3.7	40.7	226	93	9.2 -MEASURE-	9.2 -MEASURE-	11 -EXEMPT-	> 50 mm	> 50 mm
Cellular Secondary Tx/Rx (Antenna D)														
Cellular	GPRS 2 Slots	848.8	24.50	70	4	3.7	93	226	40.7	12.9 -MEASURE-	12.9 -MEASURE-	> 50 mm	> 50 mm	2 -EXEMPT-
Cellular	GPRS 2 Slots	1909.8	20.00	25	4	3.7	93	226	40.7	6.9 -MEASURE-	6.9 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	W-CDMA 2	1907.6	13.80	24	4	3.7	93	226	40.7	6.6 -MEASURE-	6.6 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	93	226	40.7	5.8 -MEASURE-	5.8 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	93	226	40.7	10.3 -MEASURE-	10.3 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	93	226	40.7	10.3 -MEASURE-	10.3 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	CDMA BC1	1908.75	13.80	24	4	3.7	93	226	40.7	6.6 -MEASURE-	6.6 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	93	226	40.7	10.2 -MEASURE-	10.2 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	93	226	40.7	5.8 -MEASURE-	5.8 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 2	1900	13.80	24	4	3.7	93	226	40.7	6.6 -MEASURE-	6.6 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 4	1754.3	13.50	22	4	3.7	93	226	40.7	5.8 -MEASURE-	5.8 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 5	844	17.80	60	4	3.7	93	226	40.7	11 -MEASURE-	11 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 7	2560	11.80	15	4	3.7	93	226	40.7	4.8 -MEASURE-	4.8 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 12	711	19.00	79	4	3.7	93	226	40.7	13.3 -MEASURE-	13.3 -MEASURE-	> 50 mm	> 50 mm	2 -EXEMPT-
Cellular	LTE Band 13	782	19.00	79	4	3.7	93	226	40.7	14 -MEASURE-	14 -MEASURE-	> 50 mm	> 50 mm	2 -EXEMPT-
Cellular	LTE Band 17	710	19.00	79	4	3.7	93	226	40.7	13.3 -MEASURE-	13.3 -MEASURE-	> 50 mm	> 50 mm	2 -EXEMPT-
Cellular	LTE Band 25	1905	13.80	24	4	3.7	93	226	40.7	6.6 -MEASURE-	6.6 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 26	841.4	17.80	60	4	3.7	93	226	40.7	11 -MEASURE-	11 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 27	815.5	17.80	60	4	3.7	93	226	40.7	10.8 -MEASURE-	10.8 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 30	2310	12.50	18	4	3.7	93	226	40.7	5.5 -MEASURE-	5.5 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-
Cellular	LTE Band 41	2680	14.00	25	4	3.7	93	226	40.7	8.2 -MEASURE-	8.2 -MEASURE-	> 50 mm	> 50 mm	1 -EXEMPT-

Note(s):

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

Antennas > 50mm to adjacent edges

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Calculated Threshold Value				
			dBm	m W	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Rear	Edge 1	Edge 2	Edge 3	Edge 4
Cellular Primary Tx/Rx (Antenna C)														
Cellular	GPRS 2 Slots	848.8	23.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	158.7 mW -EXEMPT-	406.1mW -EXEMPT-
Cellular	GPRS 2 Slots	1909.8	19.30	21	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.5 mW -EXEMPT-	538.5 mW -EXEMPT-
Cellular	W-CDMA 2	1907.6	13.50	22	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.6 mW -EXEMPT-	538.6 mW -EXEMPT-
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	167.3 mW -EXEMPT-	543.3 mW -EXEMPT-
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	156.4 mW -EXEMPT-	405.7 mW -EXEMPT-
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	158.2 mW -EXEMPT-	406 mW -EXEMPT-
Cellular	CDMA BC1	1908.75	13.50	22	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.6 mW -EXEMPT-	538.6 mW -EXEMPT-
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	161.1mW -EXEMPT-	401.3 mW -EXEMPT-
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	167.3 mW -EXEMPT-	543.3 mW -EXEMPT-
Cellular	LTE Band 2	1900	13.30	21	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.8 mW -EXEMPT-	538.8 mW -EXEMPT-
Cellular	LTE Band 4	1754.3	13.80	24	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	167.3 mW -EXEMPT-	543.3 mW -EXEMPT-
Cellular	LTE Band 5	844	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	153.6 mW -EXEMPT-	405.2 mW -EXEMPT-
Cellular	LTE Band 7	2560	12.00	16	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	163.8 mW -EXEMPT-	523.8 mW -EXEMPT-
Cellular	LTE Band 12	711	18.80	76	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	162.1 mW -EXEMPT-	381.7 mW -EXEMPT-
Cellular	LTE Band 13	782	19.00	79	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	167.2 mW -EXEMPT-	393.8 mW -EXEMPT-
Cellular	LTE Band 17	710	18.80	76	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	161.1mW -EXEMPT-	381.6 mW -EXEMPT-
Cellular	LTE Band 25	1905	13.30	21	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.7 mW -EXEMPT-	538.7 mW -EXEMPT-
Cellular	LTE Band 26	841.4	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	150.8 mW -EXEMPT-	404.7 mW -EXEMPT-
Cellular	LTE Band 27	815.5	17.50	56	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	163 mW -EXEMPT-	399.9 mW -EXEMPT-
Cellular	LTE Band 30	2310	12.80	19	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	168.7 mW -EXEMPT-	528.7 mW -EXEMPT-
Cellular	LTE Band 41	2680	14.50	28	4	3.7	40.7	226	93	< 50 mm	< 50 mm	< 50 mm	161.6 mW -EXEMPT-	521.6 mW -EXEMPT-
Cellular Secondary Tx/Rx (Antenna D)														
Cellular	GPRS 2 Slots	848.8	24.50	70	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	406.1mW -EXEMPT-	158.7 mW -EXEMPT-
Cellular	GPRS 2 Slots	1909.8	20.00	25	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	538.5 mW -EXEMPT-	168.5 mW -EXEMPT-
Cellular	W-CDMA 2	1907.6	13.80	24	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	538.6 mW -EXEMPT-	168.6 mW -EXEMPT-
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	543.3 mW -EXEMPT-	167.3 mW -EXEMPT-
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	405.7 mW -EXEMPT-	156.4 mW -EXEMPT-
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	406 mW -EXEMPT-	158.2 mW -EXEMPT-
Cellular	CDMA BC1	1908.75	13.80	24	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	538.6 mW -EXEMPT-	168.6 mW -EXEMPT-
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	401.3 mW -EXEMPT-	161.1mW -EXEMPT-
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	543.3 mW -EXEMPT-	167.3 mW -EXEMPT-
Cellular	LTE Band 2	1900	13.80	24	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	538.8 mW -EXEMPT-	168.8 mW -EXEMPT-
Cellular	LTE Band 4	1754.3	13.50	22	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	543.3 mW -EXEMPT-	167.3 mW -EXEMPT-
Cellular	LTE Band 5	844	17.80	60	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	405.2 mW -EXEMPT-	153.6 mW -EXEMPT-
Cellular	LTE Band 7	2560	11.80	15	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	523.8 mW -EXEMPT-	163.8 mW -EXEMPT-
Cellular	LTE Band 12	711	19.00	79	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	381.7 mW -EXEMPT-	162.1 mW -EXEMPT-
Cellular	LTE Band 13	782	19.00	79	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	393.8 mW -EXEMPT-	167.2 mW -EXEMPT-
Cellular	LTE Band 17	710	19.00	79	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	381.6 mW -EXEMPT-	161.1mW -EXEMPT-
Cellular	LTE Band 25	1905	13.80	24	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	538.7 mW -EXEMPT-	168.7 mW -EXEMPT-
Cellular	LTE Band 26	841.4	17.80	60	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	404.7 mW -EXEMPT-	150.8 mW -EXEMPT-
Cellular	LTE Band 27	815.5	17.80	60	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	399.9 mW -EXEMPT-	163 mW -EXEMPT-
Cellular	LTE Band 30	2310	12.50	18	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	528.7 mW -EXEMPT-	168.7 mW -EXEMPT-
Cellular	LTE Band 41	2680	14.00	25	4	3.7	93	226	40.7	< 50 mm	< 50 mm	< 50 mm	521.6 mW -EXEMPT-	161.6 mW -EXEMPT-

Note(s):

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

SAR Test Exclusion Calculations for WLAN**Antennas < 50mm to adjacent edges**

Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Calculated Threshold Value				
		dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Rear	Edge 1	Edge 2	Edge 3	Edge 4
Wi-Fi (Antenna A)													
Wi-Fi 2.4 GHz	2462	16.50	45	5	228.1	133.3	3.1	7.1	14.1 -MEASURE-	> 50 mm	> 50 mm	14.1 -MEASURE-	10.1 -MEASURE-
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	133.3	3.1	7.1	25.8 -MEASURE-	> 50 mm	> 50 mm	25.8 -MEASURE-	18.5 -MEASURE-
Wi-Fi 5.5 GHz	5700	16.00	40	5	228.1	133.3	3.1	7.1	19.1 -MEASURE-	> 50 mm	> 50 mm	19.1 -MEASURE-	13.6 -MEASURE-
Wi-Fi 5.8 GHz	5825	16.50	45	5	228.1	133.3	3.1	7.1	21.7 -MEASURE-	> 50 mm	> 50 mm	21.7 -MEASURE-	15.5 -MEASURE-
Wi-Fi (Antenna B)													
Wi-Fi 2.4 GHz	2462	16.00	40	5	228.1	7.1	3.1	133.3	12.6 -MEASURE-	> 50 mm	9 -MEASURE-	12.6 -MEASURE-	> 50 mm
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	7.1	3.1	133.3	25.8 -MEASURE-	> 50 mm	18.5 -MEASURE-	25.8 -MEASURE-	> 50 mm
Wi-Fi 5.5 GHz	5700	16.50	45	5	228.1	7.1	3.1	133.3	21.5 -MEASURE-	> 50 mm	15.3 -MEASURE-	21.5 -MEASURE-	> 50 mm
Wi-Fi 5.8 GHz	5825	17.00	50	5	228.1	7.1	3.1	133.3	24.1 -MEASURE-	> 50 mm	17.2 -MEASURE-	24.1 -MEASURE-	> 50 mm
Bluetooth P _{Low}	2480	10.50	11	5	228.1	7.1	3.1	133.3	3.5 -MEASURE-	> 50 mm	2.5 -EXEMPT-	3.5 -MEASURE-	> 50 mm
Bluetooth P _{Max}	2480	17.00	50	5	228.1	7.1	3.1	133.3	15.7 -MEASURE-	> 50 mm	11.2 -MEASURE-	15.7 -MEASURE-	> 50 mm
Wi-Fi (Antenna D)													
Wi-Fi 2.4 GHz	2462	11.00	13	4	3.7	93	226	40.7	4.1 -MEASURE-	4.1 -MEASURE-	> 50 mm	> 50 mm	0.5 -EXEMPT-
Bluetooth P _{Low}	2480	5.00	3	4	3.7	93	226	40.7	0.9 -EXEMPT-	0.9 -EXEMPT-	> 50 mm	> 50 mm	0.1 -EXEMPT-
Bluetooth P _{Max}	2480	12.00	16	4	3.7	93	226	40.7	5 -MEASURE-	5 -MEASURE-	> 50 mm	> 50 mm	0.6 -EXEMPT-

Note(s):

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

Antennas > 50mm to adjacent edges

Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Calculated Threshold Value				
		dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Rear	Edge 1	Edge 2	Edge 3	Edge 4
Wi-Fi (Antenna A)													
Wi-Fi 2.4 GHz	2462	16.50	45	5	228.1	133.3	3.1	7.1	< 50 mm	1876.6 mW -EXEMPT-	928.6 mW -EXEMPT-	< 50 mm	< 50 mm
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	133.3	3.1	7.1	< 50 mm	1846 mW -EXEMPT-	898 mW -EXEMPT-	< 50 mm	< 50 mm
Wi-Fi 5.5 GHz	5700	16.00	40	5	228.1	133.3	3.1	7.1	< 50 mm	1843.8 mW -EXEMPT-	895.8 mW -EXEMPT-	< 50 mm	< 50 mm
Wi-Fi 5.8 GHz	5825	16.50	45	5	228.1	133.3	3.1	7.1	< 50 mm	1843.2 mW -EXEMPT-	895.2 mW -EXEMPT-	< 50 mm	< 50 mm
Wi-Fi (Antenna B)													
Wi-Fi 2.4 GHz	2462	16.00	40	5	228.1	7.1	3.1	133.3	< 50 mm	1876.6 mW -EXEMPT-	< 50 mm	< 50 mm	928.6 mW -EXEMPT-
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	7.1	3.1	133.3	< 50 mm	1846 mW -EXEMPT-	< 50 mm	< 50 mm	898 mW -EXEMPT-
Wi-Fi 5.5 GHz	5700	16.50	45	5	228.1	7.1	3.1	133.3	< 50 mm	1843.8 mW -EXEMPT-	< 50 mm	< 50 mm	895.8 mW -EXEMPT-
Wi-Fi 5.8 GHz	5825	17.00	50	5	228.1	7.1	3.1	133.3	< 50 mm	1843.2 mW -EXEMPT-	< 50 mm	< 50 mm	895.2 mW -EXEMPT-
Bluetooth P _{Low}	2480	10.50	11	5	228.1	7.1	3.1	133.3	< 50 mm	1876.3 mW -EXEMPT-	< 50 mm	< 50 mm	928.3 mW -EXEMPT-
Bluetooth P _{Max}	2480	17.00	50	5	228.1	7.1	3.1	133.3	< 50 mm	1876.3 mW -EXEMPT-	< 50 mm	< 50 mm	928.3 mW -EXEMPT-
Wi-Fi (Antenna D)													
Wi-Fi 2.4 GHz	2462	11.00	13	4	3.7	93	226	40.7	< 50 mm	< 50 mm	525.6 mW -EXEMPT-	1855.6 mW -EXEMPT-	< 50 mm
Bluetooth P _{Low}	2480	5.00	3	4	3.7	93	226	40.7	< 50 mm	< 50 mm	525.3 mW -EXEMPT-	1855.3 mW -EXEMPT-	< 50 mm
Bluetooth P _{Max}	2480	12.00	16	4	3.7	93	226	40.7	< 50 mm	< 50 mm	525.3 mW -EXEMPT-	1855.3 mW -EXEMPT-	< 50 mm

Note(s):

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

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:

WWAN

Test Configurations	Antenna C					Antenna D				
	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Rear	Edge 1	Edge 2	Edge 3	Edge 4
		(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)		(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)
GSM850	Yes	Yes	No	No	No	Yes	Yes	No	No	No
GSM1900	Yes	Yes	No	No	No	Yes	Yes	No	No	No
W-CDMA Band II	Yes	Yes	No	No	No	Yes	Yes	No	No	No
W-CDMA Band IV	Yes	Yes	No	No	No	Yes	Yes	No	No	No
W-CDMA Band V	Yes	Yes	No	No	No	Yes	Yes	No	No	No
CDMA BC0	Yes	Yes	No	No	No	Yes	Yes	No	No	No
CDMA BC1	Yes	Yes	No	No	No	Yes	Yes	No	No	No
CDMA BC10	Yes	Yes	No	No	No	Yes	Yes	No	No	No
CDMA BC15	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 2	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 4	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 5	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 7	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 12	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 13	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 17	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 25	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 26	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 27	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 30	Yes	Yes	No	No	No	Yes	Yes	No	No	No
LTE Band 41	Yes	Yes	No	No	No	Yes	Yes	No	No	No

WLAN

Test Configurations	Rear	Edge 1	Edge 2	Edge 3	Edge 4
		(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)
Wi-Fi SISO, 2.4 GHz, Antenna A	Yes	No	No	Yes	Yes
Wi-Fi SISO, 2.4 GHz, Antenna B	Yes	No	Yes	Yes	No
Wi-Fi SISO, 2.4 GHz, Antenna D	Yes	Yes	No	No	No
Wi-Fi SISO, 5 GHz, Antenna A	Yes	No	No	Yes	Yes
Wi-Fi SISO, 5 GHz, Antenna B	Yes	No	Yes	Yes	No
Wi-Fi MIMO, 2.4 GHz, Antenna A + B	Yes	No	Yes	Yes	Yes
Wi-Fi MIMO, 2.4 GHz, Antenna A + D	Yes	Yes	No	Yes	Yes
Wi-Fi MIMO, 5 GHz, Antenna A + B	Yes	No	Yes	Yes	Yes
Bluetooth P _{low} , Antenna B	Yes	No	No	Yes	No
Bluetooth P _{max} , Antenna B	Yes	No	Yes	Yes	No
Bluetooth P _{low} , Antenna D	No	No	No	No	No
Bluetooth P _{max} , Antenna D	Yes	Yes	No	No	No

Note(s):

Yes = Testing is required.

No = Testing is not required.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

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

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

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

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

Dielectric Property Measurements Results:**SAR Lab A**

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)	
1/11/2016	Body 835	e'	53.3800	Relative Permittivity (ϵ_r):	53.38	55.20	-3.30	5	
		e"	21.8500	Conductivity (σ):	1.01	0.97	4.58	5	
	Body 820	e'	53.5700	Relative Permittivity (ϵ_r):	53.57	55.28	-3.09	5	
		e"	21.9200	Conductivity (σ):	1.00	0.97	3.20	5	
	Body 850	e'	53.2300	Relative Permittivity (ϵ_r):	53.23	55.16	-3.49	5	
		e"	21.8000	Conductivity (σ):	1.03	0.99	4.37	5	
1/14/2016	Body 835	e'	53.8600	Relative Permittivity (ϵ_r):	53.86	55.20	-2.43	5	
		e"	21.4900	Conductivity (σ):	1.00	0.97	2.86	5	
	Body 820	e'	54.0200	Relative Permittivity (ϵ_r):	54.02	55.28	-2.27	5	
		e"	21.6100	Conductivity (σ):	0.99	0.97	1.74	5	
	Body 850	e'	53.7400	Relative Permittivity (ϵ_r):	53.74	55.16	-2.57	5	
		e"	21.4800	Conductivity (σ):	1.02	0.99	2.84	5	
1/19/2016	Body 5180	e'	48.0800	Relative Permittivity (ϵ_r):	48.08	49.05	-1.97	5	
		e"	18.8000	Conductivity (σ):	5.41	5.27	2.72	5	
	Body 5200	e'	48.3900	Relative Permittivity (ϵ_r):	48.39	49.02	-1.28	5	
		e"	18.8300	Conductivity (σ):	5.44	5.29	2.83	5	
	Body 5600	e'	48.1000	Relative Permittivity (ϵ_r):	48.10	48.48	-0.78	5	
		e"	18.9000	Conductivity (σ):	5.89	5.76	2.15	5	
	Body 5800	e'	47.3300	Relative Permittivity (ϵ_r):	47.33	48.20	-1.80	5	
		e"	19.3800	Conductivity (σ):	6.25	6.00	4.17	5	
	Body 5825	e'	47.5200	Relative Permittivity (ϵ_r):	47.52	48.20	-1.41	5	
		e"	19.2800	Conductivity (σ):	6.24	6.00	4.08	5	
	1/25/2016	Body 5180	e'	50.0600	Relative Permittivity (ϵ_r):	50.06	49.05	2.07	5
			e"	18.6500	Conductivity (σ):	5.37	5.27	1.90	5
Body 5200		e'	50.0800	Relative Permittivity (ϵ_r):	50.08	49.02	2.16	5	
		e"	18.6600	Conductivity (σ):	5.40	5.29	1.90	5	
Body 5600		e'	49.4500	Relative Permittivity (ϵ_r):	49.45	48.48	2.01	5	
		e"	19.0300	Conductivity (σ):	5.93	5.76	2.86	5	
Body 5800		e'	49.1400	Relative Permittivity (ϵ_r):	49.14	48.20	1.95	5	
		e"	19.2500	Conductivity (σ):	6.21	6.00	3.47	5	
Body 5825		e'	49.1100	Relative Permittivity (ϵ_r):	49.11	48.20	1.89	5	
		e"	19.2800	Conductivity (σ):	6.24	6.00	4.08	5	

SAR Lab B

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/8/2016	Body 750	e'	55.2500	Relative Permittivity (ϵ_r):	55.25	55.55	-0.53	5
		e"	23.2400	Conductivity (σ):	0.97	0.96	0.63	5
	Body 700	e'	55.7200	Relative Permittivity (ϵ_r):	55.72	55.74	-0.03	5
		e"	23.7000	Conductivity (σ):	0.92	0.96	-3.83	5
	Body 790	e'	54.7700	Relative Permittivity (ϵ_r):	54.77	55.39	-1.12	5
		e"	22.9200	Conductivity (σ):	1.01	0.97	4.21	5
1/11/2016	Body 750	e'	54.2100	Relative Permittivity (ϵ_r):	54.21	55.55	-2.41	5
		e"	23.4000	Conductivity (σ):	0.98	0.96	1.32	5
	Body 700	e'	54.6800	Relative Permittivity (ϵ_r):	54.68	55.74	-1.90	5
		e"	23.7000	Conductivity (σ):	0.92	0.96	-3.83	5
	Body 790	e'	53.7400	Relative Permittivity (ϵ_r):	53.74	55.39	-2.98	5
		e"	23.0400	Conductivity (σ):	1.01	0.97	4.75	5
1/12/2016	Body 1900	e'	52.0100	Relative Permittivity (ϵ_r):	52.01	53.30	-2.42	5
		e"	14.8900	Conductivity (σ):	1.57	1.52	3.49	5
	Body 1850	e'	52.2400	Relative Permittivity (ϵ_r):	52.24	53.30	-1.99	5
		e"	14.8000	Conductivity (σ):	1.52	1.52	0.16	5
	Body 1910	e'	51.9800	Relative Permittivity (ϵ_r):	51.98	53.30	-2.48	5
		e"	14.9100	Conductivity (σ):	1.58	1.52	4.18	5
1/15/2016	Body 1900	e'	51.4700	Relative Permittivity (ϵ_r):	51.47	53.30	-3.43	5
		e"	14.7300	Conductivity (σ):	1.56	1.52	2.38	5
	Body 1850	e'	51.6500	Relative Permittivity (ϵ_r):	51.65	53.30	-3.10	5
		e"	14.6300	Conductivity (σ):	1.50	1.52	-0.99	5
	Body 1910	e'	51.4500	Relative Permittivity (ϵ_r):	51.45	53.30	-3.47	5
		e"	14.7400	Conductivity (σ):	1.57	1.52	2.99	5
1/19/2016	Body 750	e'	54.5300	Relative Permittivity (ϵ_r):	54.53	55.55	-1.83	5
		e"	23.3000	Conductivity (σ):	0.97	0.96	0.89	5
	Body 700	e'	55.2500	Relative Permittivity (ϵ_r):	55.25	55.74	-0.88	5
		e"	23.6300	Conductivity (σ):	0.92	0.96	-4.12	5
	Body 790	e'	54.0900	Relative Permittivity (ϵ_r):	54.09	55.39	-2.35	5
		e"	23.0300	Conductivity (σ):	1.01	0.97	4.71	5
1/20/2016	Body 5180	e'	48.8700	Relative Permittivity (ϵ_r):	48.87	49.05	-0.36	5
		e"	18.5600	Conductivity (σ):	5.35	5.27	1.41	5
	Body 5200	e'	48.8100	Relative Permittivity (ϵ_r):	48.81	49.02	-0.43	5
		e"	18.6200	Conductivity (σ):	5.38	5.29	1.68	5
	Body 5600	e'	48.1600	Relative Permittivity (ϵ_r):	48.16	48.48	-0.66	5
		e"	19.2100	Conductivity (σ):	5.98	5.76	3.83	5
	Body 5800	e'	47.8800	Relative Permittivity (ϵ_r):	47.88	48.20	-0.66	5
		e"	19.3500	Conductivity (σ):	6.24	6.00	4.01	5
	Body 5825	e'	47.8400	Relative Permittivity (ϵ_r):	47.84	48.20	-0.75	5
		e"	19.3500	Conductivity (σ):	6.27	6.00	4.45	5
1/25/2016	Body 5180	e'	49.4400	Relative Permittivity (ϵ_r):	49.44	49.05	0.80	5
		e"	18.5600	Conductivity (σ):	5.35	5.27	1.41	5
	Body 5200	e'	49.4700	Relative Permittivity (ϵ_r):	49.47	49.02	0.92	5
		e"	18.5500	Conductivity (σ):	5.36	5.29	1.30	5
	Body 5600	e'	48.7200	Relative Permittivity (ϵ_r):	48.72	48.48	0.50	5
		e"	18.9800	Conductivity (σ):	5.91	5.76	2.59	5
	Body 5800	e'	48.3690	Relative Permittivity (ϵ_r):	48.37	48.20	0.35	5
		e"	19.2700	Conductivity (σ):	6.21	6.00	3.58	5
	Body 5825	e'	48.4100	Relative Permittivity (ϵ_r):	48.41	48.20	0.44	5
		e"	19.3100	Conductivity (σ):	6.25	6.00	4.24	5

SAR Lab B (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/29/2016	Body 5180	e'	48.3900	Relative Permittivity (ϵ_r):	48.39	49.05	-1.34	5
		e"	18.5600	Conductivity (σ):	5.35	5.27	1.41	5
	Body 5200	e'	48.3400	Relative Permittivity (ϵ_r):	48.34	49.02	-1.39	5
		e"	18.5900	Conductivity (σ):	5.38	5.29	1.52	5
	Body 5600	e'	47.6800	Relative Permittivity (ϵ_r):	47.68	48.48	-1.65	5
		e"	19.0200	Conductivity (σ):	5.92	5.76	2.80	5
	Body 5800	e'	47.3900	Relative Permittivity (ϵ_r):	47.39	48.20	-1.68	5
		e"	19.2100	Conductivity (σ):	6.20	6.00	3.25	5
	Body 5825	e'	47.3200	Relative Permittivity (ϵ_r):	47.32	48.20	-1.83	5
e"		19.2400	Conductivity (σ):	6.23	6.00	3.86	5	
2/1/2016	Body 5180	e'	50.3300	Relative Permittivity (ϵ_r):	50.33	49.05	2.62	5
		e"	17.8700	Conductivity (σ):	5.15	5.27	-2.36	5
	Body 5200	e'	50.3800	Relative Permittivity (ϵ_r):	50.38	49.02	2.78	5
		e"	17.8900	Conductivity (σ):	5.17	5.29	-2.31	5
	Body 5600	e'	49.8600	Relative Permittivity (ϵ_r):	49.86	48.48	2.85	5
		e"	18.0200	Conductivity (σ):	5.61	5.76	-2.60	5
	Body 5800	e'	49.4200	Relative Permittivity (ϵ_r):	49.42	48.20	2.53	5
		e"	18.1400	Conductivity (σ):	5.85	6.00	-2.50	5
	Body 5825	e'	49.3500	Relative Permittivity (ϵ_r):	49.35	48.20	2.39	5
e"		18.2000	Conductivity (σ):	5.89	6.00	-1.75	5	

SAR Lab C

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)	
1/11/2016	Body 1750	e'	50.8400	Relative Permittivity (ϵ_r):	50.84	53.44	-4.87	5	
		e"	15.2700	Conductivity (σ):	1.49	1.49	-0.02	5	
	Body 1710	e'	50.9100	Relative Permittivity (ϵ_r):	50.91	53.54	-4.92	5	
		e"	15.1700	Conductivity (σ):	1.44	1.46	-1.31	5	
	Body 1755	e'	50.8600	Relative Permittivity (ϵ_r):	50.86	53.43	-4.81	5	
		e"	15.2600	Conductivity (σ):	1.49	1.49	-0.01	5	
1/14/2016	Body 1750	e'	51.3100	Relative Permittivity (ϵ_r):	51.31	53.44	-3.99	5	
		e"	15.4900	Conductivity (σ):	1.51	1.49	1.42	5	
	Body 1710	e'	51.3900	Relative Permittivity (ϵ_r):	51.39	53.54	-4.02	5	
		e"	15.5300	Conductivity (σ):	1.48	1.46	1.03	5	
	Body 1755	e'	51.2900	Relative Permittivity (ϵ_r):	51.29	53.43	-4.00	5	
		e"	15.4900	Conductivity (σ):	1.51	1.49	1.50	5	
1/19/2016	Body 1750	e'	51.6600	Relative Permittivity (ϵ_r):	51.66	53.44	-3.33	5	
		e"	15.1900	Conductivity (σ):	1.48	1.49	-0.54	5	
	Body 1710	e'	51.7400	Relative Permittivity (ϵ_r):	51.74	53.54	-3.37	5	
		e"	15.1400	Conductivity (σ):	1.44	1.46	-1.51	5	
	Body 1755	e'	51.6700	Relative Permittivity (ϵ_r):	51.67	53.43	-3.29	5	
		e"	15.1800	Conductivity (σ):	1.48	1.49	-0.53	5	
1/19/2016	Body 5180	e'	47.4800	Relative Permittivity (ϵ_r):	47.48	49.05	-3.19	5	
		e"	18.5200	Conductivity (σ):	5.33	5.27	1.19	5	
	Body 5200	e'	47.3600	Relative Permittivity (ϵ_r):	47.36	49.02	-3.39	5	
		e"	18.4300	Conductivity (σ):	5.33	5.29	0.64	5	
	Body 5600	e'	46.7000	Relative Permittivity (ϵ_r):	46.70	48.48	-3.67	5	
		e"	19.0400	Conductivity (σ):	5.93	5.76	2.91	5	
	Body 5800	e'	46.5800	Relative Permittivity (ϵ_r):	46.58	48.20	-3.36	5	
		e"	19.0900	Conductivity (σ):	6.16	6.00	2.61	5	
	Body 5825	e'	46.3300	Relative Permittivity (ϵ_r):	46.33	48.20	-3.88	5	
		e"	19.1100	Conductivity (σ):	6.19	6.00	3.16	5	
	1/25/2016	Body 5180	e'	48.8100	Relative Permittivity (ϵ_r):	48.81	49.05	-0.48	5
			e"	18.7400	Conductivity (σ):	5.40	5.27	2.39	5
Body 5200		e'	48.8200	Relative Permittivity (ϵ_r):	48.82	49.02	-0.41	5	
		e"	18.7400	Conductivity (σ):	5.42	5.29	2.34	5	
Body 5600		e'	48.1400	Relative Permittivity (ϵ_r):	48.14	48.48	-0.70	5	
		e"	19.1000	Conductivity (σ):	5.95	5.76	3.23	5	
Body 5800		e'	47.7500	Relative Permittivity (ϵ_r):	47.75	48.20	-0.93	5	
		e"	19.3700	Conductivity (σ):	6.25	6.00	4.11	5	
Body 5825		e'	47.7500	Relative Permittivity (ϵ_r):	47.75	48.20	-0.93	5	
		e"	19.4100	Conductivity (σ):	6.29	6.00	4.78	5	

SAR Lab D

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/4/2016	Body 2450	e'	50.7600	Relative Permittivity (ϵ_r):	50.76	52.70	-3.68	5
		e"	14.7300	Conductivity (σ):	2.01	1.95	2.90	5
	Body 2410	e'	50.8800	Relative Permittivity (ϵ_r):	50.88	52.76	-3.56	5
		e"	14.6400	Conductivity (σ):	1.96	1.91	2.85	5
	Body 2475	e'	50.7200	Relative Permittivity (ϵ_r):	50.72	52.67	-3.70	5
		e"	14.7700	Conductivity (σ):	2.03	1.99	2.39	5
1/8/2016	Body 2450	e'	53.0400	Relative Permittivity (ϵ_r):	53.04	52.70	0.65	5
		e"	14.9500	Conductivity (σ):	2.04	1.95	4.44	5
	Body 2410	e'	53.0800	Relative Permittivity (ϵ_r):	53.08	52.76	0.61	5
		e"	14.8300	Conductivity (σ):	1.99	1.91	4.18	5
	Body 2475	e'	52.9600	Relative Permittivity (ϵ_r):	52.96	52.67	0.55	5
		e"	14.9700	Conductivity (σ):	2.06	1.99	3.78	5
1/11/2016	Body 2300	e'	52.1900	Relative Permittivity (ϵ_r):	52.19	52.90	-1.35	5
		e"	14.6800	Conductivity (σ):	1.88	1.80	4.10	5
	Body 2250	e'	52.3000	Relative Permittivity (ϵ_r):	52.30	52.97	-1.27	5
		e"	14.5600	Conductivity (σ):	1.82	1.76	3.72	5
	Body 2350	e'	52.0300	Relative Permittivity (ϵ_r):	52.03	52.84	-1.53	5
		e"	14.8100	Conductivity (σ):	1.94	1.85	4.56	5
1/11/2016	Body 2600	e'	51.4200	Relative Permittivity (ϵ_r):	51.42	52.51	-2.08	5
		e"	15.4000	Conductivity (σ):	2.23	2.16	3.03	5
	Body 2500	e'	51.7600	Relative Permittivity (ϵ_r):	51.76	52.64	-1.67	5
		e"	14.1800	Conductivity (σ):	1.97	2.02	-2.43	5
	Body 2700	e'	51.1100	Relative Permittivity (ϵ_r):	51.11	52.38	-2.43	5
		e"	15.6000	Conductivity (σ):	2.34	2.30	1.77	5
1/14/2016	Body 2300	e'	52.5300	Relative Permittivity (ϵ_r):	52.53	52.90	-0.71	5
		e"	14.5100	Conductivity (σ):	1.86	1.80	2.89	5
	Body 2250	e'	52.6100	Relative Permittivity (ϵ_r):	52.61	52.97	-0.68	5
		e"	14.3700	Conductivity (σ):	1.80	1.76	2.36	5
	Body 2350	e'	52.4100	Relative Permittivity (ϵ_r):	52.41	52.84	-0.81	5
		e"	14.6700	Conductivity (σ):	1.92	1.85	3.57	5
1/14/2016	Body 2600	e'	51.6200	Relative Permittivity (ϵ_r):	51.62	52.51	-1.70	5
		e"	15.2400	Conductivity (σ):	2.20	2.16	1.96	5
	Body 2500	e'	52.0000	Relative Permittivity (ϵ_r):	52.00	52.64	-1.21	5
		e"	15.0800	Conductivity (σ):	2.10	2.02	3.76	5
	Body 2700	e'	51.3300	Relative Permittivity (ϵ_r):	51.33	52.38	-2.01	5
		e"	15.3900	Conductivity (σ):	2.31	2.30	0.40	5
1/19/2016	Body 2300	e'	50.9000	Relative Permittivity (ϵ_r):	50.90	52.90	-3.79	5
		e"	14.6600	Conductivity (σ):	1.87	1.80	3.95	5
	Body 2250	e'	51.1200	Relative Permittivity (ϵ_r):	51.12	52.97	-3.49	5
		e"	14.5700	Conductivity (σ):	1.82	1.76	3.79	5
	Body 2350	e'	50.7500	Relative Permittivity (ϵ_r):	50.75	52.84	-3.95	5
		e"	14.8200	Conductivity (σ):	1.94	1.85	4.63	5
1/19/2016	Body 2600	e'	50.5200	Relative Permittivity (ϵ_r):	50.52	52.51	-3.79	5
		e"	15.4300	Conductivity (σ):	2.23	2.16	3.23	5
	Body 2500	e'	50.8700	Relative Permittivity (ϵ_r):	50.87	52.64	-3.36	5
		e"	15.1900	Conductivity (σ):	2.11	2.02	4.52	5
	Body 2700	e'	50.1700	Relative Permittivity (ϵ_r):	50.17	52.38	-4.23	5
		e"	15.7200	Conductivity (σ):	2.36	2.30	2.55	5

SAR Lab D (continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/21/2016	Body 2450	e'	51.9800	Relative Permittivity (ϵ_r):	51.98	52.70	-1.37	5
		e"	14.6600	Conductivity (σ):	2.00	1.95	2.42	5
	Body 2410	e'	52.1500	Relative Permittivity (ϵ_r):	52.15	52.76	-1.15	5
		e"	14.5900	Conductivity (σ):	1.96	1.91	2.50	5
	Body 2475	e'	51.8800	Relative Permittivity (ϵ_r):	51.88	52.67	-1.50	5
		e"	14.7300	Conductivity (σ):	2.03	1.99	2.11	5
1/25/2016	Body 2450	e'	51.9200	Relative Permittivity (ϵ_r):	51.92	52.70	-1.48	5
		e"	14.1400	Conductivity (σ):	1.93	1.95	-1.22	5
	Body 2410	e'	52.0600	Relative Permittivity (ϵ_r):	52.06	52.76	-1.33	5
		e"	14.0700	Conductivity (σ):	1.89	1.91	-1.16	5
	Body 2475	e'	51.8500	Relative Permittivity (ϵ_r):	51.85	52.67	-1.55	5
		e"	14.2200	Conductivity (σ):	1.96	1.99	-1.42	5
1/28/2016	Body 2450	e'	50.8000	Relative Permittivity (ϵ_r):	50.80	52.70	-3.61	5
		e"	14.5900	Conductivity (σ):	1.99	1.95	1.93	5
	Body 2410	e'	50.9000	Relative Permittivity (ϵ_r):	50.90	52.76	-3.52	5
		e"	14.5000	Conductivity (σ):	1.94	1.91	1.87	5
	Body 2475	e'	50.7400	Relative Permittivity (ϵ_r):	50.74	52.67	-3.66	5
		e"	14.6200	Conductivity (σ):	2.01	1.99	1.35	5

SAR Lab F

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/20/2016	Body 2450	e'	51.6500	Relative Permittivity (ϵ_r):	51.65	52.70	-1.99	5
		e"	14.5100	Conductivity (σ):	1.98	1.95	1.37	5
	Body 2410	e'	51.7700	Relative Permittivity (ϵ_r):	51.77	52.76	-1.88	5
		e"	14.4700	Conductivity (σ):	1.94	1.91	1.65	5
	Body 2475	e'	51.5700	Relative Permittivity (ϵ_r):	51.57	52.67	-2.09	5
		e"	14.5500	Conductivity (σ):	2.00	1.99	0.87	5
1/25/2016	Body 2450	e'	50.8400	Relative Permittivity (ϵ_r):	50.84	52.70	-3.53	5
		e"	14.9100	Conductivity (σ):	2.03	1.95	4.16	5
	Body 2410	e'	50.9800	Relative Permittivity (ϵ_r):	50.98	52.76	-3.37	5
		e"	14.8000	Conductivity (σ):	1.98	1.91	3.97	5
	Body 2475	e'	50.7700	Relative Permittivity (ϵ_r):	50.77	52.67	-3.60	5
		e"	14.9700	Conductivity (σ):	2.06	1.99	3.78	5

SAR Lab G

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/14/2016	Body 1900	e'	51.5500	Relative Permittivity (ϵ_r):	51.55	53.30	-3.28	5
		e"	14.9300	Conductivity (σ):	1.58	1.52	3.77	5
	Body 1850	e'	51.6100	Relative Permittivity (ϵ_r):	51.61	53.30	-3.17	5
		e"	14.8600	Conductivity (σ):	1.53	1.52	0.56	5
	Body 1910	e'	51.5100	Relative Permittivity (ϵ_r):	51.51	53.30	-3.36	5
		e"	14.9500	Conductivity (σ):	1.59	1.52	4.46	5
1/19/2016	Body 1900	e'	52.5500	Relative Permittivity (ϵ_r):	52.55	53.30	-1.41	5
		e"	14.0700	Conductivity (σ):	1.49	1.52	-2.21	5
	Body 1850	e'	52.2200	Relative Permittivity (ϵ_r):	52.22	53.30	-2.03	5
		e"	14.2700	Conductivity (σ):	1.47	1.52	-3.43	5
	Body 1910	e'	52.4900	Relative Permittivity (ϵ_r):	52.49	53.30	-1.52	5
		e"	14.0600	Conductivity (σ):	1.49	1.52	-1.76	5

SAR Lab H

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
1/14/2016	Body 835	e'	53.1800	Relative Permittivity (ϵ_r):	53.18	55.20	-3.66	5
		e"	21.0300	Conductivity (σ):	0.98	0.97	0.66	5
	Body 820	e'	53.3500	Relative Permittivity (ϵ_r):	53.35	55.28	-3.49	5
		e"	21.1300	Conductivity (σ):	0.96	0.97	-0.52	5
	Body 850	e'	53.0600	Relative Permittivity (ϵ_r):	53.06	55.16	-3.80	5
		e"	21.0500	Conductivity (σ):	0.99	0.99	0.78	5
1/19/2016	Body 835	e'	53.2600	Relative Permittivity (ϵ_r):	53.26	55.20	-3.51	5
		e"	21.6500	Conductivity (σ):	1.01	0.97	3.63	5
	Body 820	e'	53.4200	Relative Permittivity (ϵ_r):	53.42	55.28	-3.36	5
		e"	21.7600	Conductivity (σ):	0.99	0.97	2.44	5
	Body 850	e'	53.1100	Relative Permittivity (ϵ_r):	53.11	55.16	-3.71	5
		e"	21.6000	Conductivity (σ):	1.02	0.99	3.42	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 10% of the manufacturer calibrated dipole SAR target.

SAR Room	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
A	1/11/2016	Body	D835V2 SN:4d002	11/12/2016	0.984	9.84	9.47	3.91	0.648	6.48	6.21	4.35	1,2
A	1/14/2016	Body	D835V2 SN:4d002	11/12/2016	0.984	9.84	9.47	3.91	0.648	6.48	6.21	4.35	
A	1/19/2016	Body	D5GHzV2 SN:1168 (5.2 GHz)	11/13/2016	7.44	74.4	75.0	-0.80	2.090	20.90	21.0	-0.48	
A	1/25/2016	Body	D5GHzV2 SN:1168 (5.2 GHz)	11/13/2016	8.15	81.5	75.0	8.67	2.280	22.80	21.0	8.57	3,4
B	1/8/2016	Body	D750V3 SN:1024	5/12/2016	0.831	8.31	8.41	-1.19	0.555	5.55	5.60	-0.89	
B	1/11/2016	Body	D750V3 SN:1071	11/12/2016	0.852	8.52	8.74	-2.52	0.568	5.68	5.81	-2.24	5,6
B	1/12/2016	Body	D1900V2 SN:5d140	4/14/2016	4.29	42.9	39.9	7.52	2.21	22.1	21.3	3.76	
B	1/15/2016	Body	D1900V2 SN:5d140	4/14/2016	4.32	43.2	39.9	8.27	2.21	22.1	21.3	3.76	7,8
B	1/19/2016	Body	D750V3 SN:1024	5/12/2016	0.821	8.21	8.41	-2.38	0.549	5.49	5.60	-1.96	9,10
B	1/20/2016	Body	D5GHzV2 SN:1168 (5.8 GHz)	11/13/2016	8.30	83.0	78.1	6.27	2.27	22.7	21.6	5.09	
B	1/25/2016	Body	D5GHzV2 SN:1168 (5.8 GHz)	11/13/2016	7.29	72.9	78.1	-6.66	2.01	20.1	21.6	-6.94	11,12
B	1/29/2016	Body	D5GHzV2 SN:1168 (5.8 GHz)	11/13/2016	7.36	73.6	78.1	-5.76	2.05	20.5	21.6	-5.09	
B	2/1/2016	Body	D5GHzV2 SN:1003 (5.8 GHz)	2/20/2016	7.10	71.0	75.0	-5.33	1.95	19.5	20.6	-5.34	13,14
C	1/11/2016	Body	D1750V2 SN:1077	9/22/2016	3.83	38.3	35.8	6.98	2.02	20.2	19.0	6.32	
C	1/14/2016	Body	D1750V2 SN:1077	9/22/2016	3.85	38.5	35.8	7.54	2.02	20.2	19.0	6.32	15,16
C	1/19/2016	Body	D1750V2 SN:1077	9/22/2016	3.47	34.7	35.8	-3.07	1.83	18.3	19.0	-3.68	
C	1/19/2016	Body	D5GHzV2 SN:1168 (5.6 GHz)	11/13/2016	7.98	79.8	82.5	-3.27	2.20	22.0	23.0	-4.35	17,18
C	1/25/2016	Body	D5GHzV2 SN:1168 (5.6 GHz)	11/13/2016	8.43	84.3	82.5	2.18	2.32	23.2	23.0	0.87	
D	1/4/2016	Body	D2450V2 SN:748	2/20/2016	4.86	48.6	50.3	-3.38	2.22	22.2	23.5	-5.53	
D	1/8/2016	Body	D2450V2 SN:748	2/20/2016	5.02	50.2	50.3	-0.20	2.30	23.0	23.5	-2.13	
D	1/11/2016	Body	D2300V2 SN:1002	3/13/2016	4.90	49.0	49.1	-0.20	2.33	23.3	23.7	-1.69	
D	1/11/2016	Body	D2600V2 SN:1036	3/13/2016	5.92	59.2	56.2	5.34	2.60	26.0	25.0	4.00	19,20
D	1/14/2016	Body	D2300V2 SN:1002	3/13/2016	4.97	49.7	49.1	1.22	2.35	23.5	23.7	-0.84	
D	1/14/2016	Body	D2600V2 SN:1036	3/13/2016	5.77	57.7	56.2	2.67	2.52	25.2	25.0	0.80	
D	1/19/2016	Body	D2300V2 SN:1002	3/13/2016	5.16	51.6	49.1	5.09	2.44	24.4	23.7	2.95	21,22
D	1/19/2016	Body	D2600V2 SN:1036	3/13/2016	5.33	53.3	56.2	-5.16	2.33	23.3	25.0	-6.80	
D	1/21/2016	Body	D2450V2 SN:748	2/20/2016	5.33	53.3	50.3	5.96	2.44	24.4	23.5	3.83	23,24
D	1/25/2016	Body	D2450V2 SN:748	2/20/2016	5.10	51.0	50.3	1.39	2.34	23.4	23.5	-0.43	
D	1/28/2016	Body	D2450V2 SN:748	2/20/2016	5.30	53.0	50.3	5.37	2.43	24.3	23.5	3.40	
F	1/20/2016	Body	D2450V2 SN:899	3/13/2016	5.26	52.6	48.8	7.79	2.41	24.1	22.7	6.17	
F	1/25/2016	Body	D2450V2 SN:899	3/13/2016	5.32	53.2	48.8	9.02	2.43	24.3	22.7	7.05	25,26
G	1/14/2016	Body	D1900V2 SN:5d043	11/17/2016	4.34	43.4	40.2	7.96	2.21	22.1	21.1	4.74	27,28
G	1/19/2016	Body	D1900V2 SN:5d043	11/17/2016	3.96	39.6	40.2	-1.49	2.02	20.2	21.1	-4.27	
H	1/14/2016	Body	D835V2 SN:4d002	11/12/2016	0.985	9.85	9.47	4.01	0.649	6.49	6.21	4.51	29,30
H	1/19/2016	Body	D835V2 SN:4d002	11/12/2016	0.984	9.84	9.47	3.91	0.649	6.49	6.21	4.51	

9. Conducted Output Power Measurements

9.1. GSM

Per KDB 941225 D01 3G SAR Procedures:

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

GSM850 Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Emission Power				Body Power			
					Antenna C		Antenna D		Antenna C		Antenna D	
					Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)
GPRS (GMSK)	CS1	1	128	824.2	33.5	24.4	32.0	23.0	25.5	16.5	26.7	17.7
			190	836.6	33.4	24.4	31.9	22.8	25.6	16.6	26.8	17.8
			251	848.8	33.5	24.5	31.3	22.3	25.6	16.6	26.8	17.8
		2	128	824.2	32.0	26.0	30.5	24.4	23.0	17.0	23.8	17.8
			190	836.6	31.8	25.8	30.4	24.3	23.0	17.0	23.9	17.9
			251	848.8	31.9	25.9	30.3	24.3	22.6	16.6	23.8	17.8
EGPRS (8PSK)	MCS5	1	128	824.2	28.7	19.7	27.0	18.0	25.5	16.5	26.6	17.6
			190	836.6	29.0	20.0	26.9	17.8	25.6	16.6	26.7	17.7
			251	848.8	28.9	19.8	26.8	17.7	25.5	16.5	26.7	17.7
		2	128	824.2	28.6	22.6	26.9	20.9	22.5	16.5	23.8	17.8
			190	836.6	28.8	22.8	26.8	20.8	22.6	16.6	23.8	17.8
			251	848.8	28.9	22.8	26.8	20.8	22.6	16.6	23.7	17.7

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- GMSK (GPRS) mode with 2 time slots for Body power, based on the output power measurements above.
- SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode

GSM1900 Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Emission Power				Body Power			
					Antenna C		Antenna D		Antenna C		Antenna D	
					Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)	Burst (dBm)	Frame (dBm)
GPRS (GMSK)	CS1	1	512	1850.2	29.5	20.4	27.4	18.4	22.2	13.2	22.9	13.9
			661	1880	29.5	20.4	27.5	18.5	22.2	13.2	23.0	14.0
			810	1909.8	29.5	20.5	27.4	18.4	22.1	13.1	22.9	13.9
		2	512	1850.2	29.4	23.4	26.5	20.5	19.2	13.2	20.0	14.0
			661	1880	29.4	23.4	26.4	20.4	19.3	13.3	20.0	14.0
			810	1909.8	29.3	23.3	26.4	20.3	19.3	13.3	20.0	14.0
EGPRS (8PSK)	MCS5	1	512	1850.2	28.0	19.0	24.9	15.9	22.2	13.2	22.9	13.9
			661	1880	28.0	19.0	25.0	16.0	22.2	13.2	22.9	13.9
			810	1909.8	27.9	18.8	24.8	15.7	22.1	13.1	22.8	13.8
		2	512	1850.2	27.8	21.8	24.8	18.8	19.2	13.2	19.8	13.8
			661	1880	27.8	21.8	24.8	18.8	19.2	13.2	19.8	13.8
			810	1909.8	27.8	21.8	24.8	18.8	19.2	13.2	19.8	13.8

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- GMSK (GPRS) mode with 2 time slots for Body power, based on the output power measurements above.
- SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode

9.2. 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:

	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
HSDPA Specific Settings	MPR (dB)	0	0	0.5	0.5
	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 section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	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	15/1
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	β_{ed}	1309/225	94/75	47/15	56/75	47/15
HSDPA Specific Settings	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0
	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
HSUPA Specific Settings	CQI Repetition Factor (Table 5.2B.4)	2				
	$A_{hs} = \beta_{hs}/\beta_c$	30/15				
	E-DPDCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	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 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

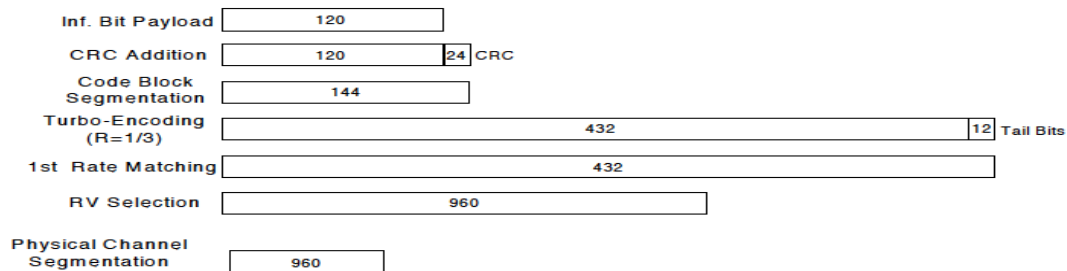
Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 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	Proces ses	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

**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	11/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	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			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

HSPA+

Since 16QAM is not used for uplink, the uplink Category and release is same as HSUPA, i.e., Rel. 7 Therefore, the RF conducted power is not measured.

W-CDMA Band II Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
W-CDMA Band II	Rel 99	RMC, 12.2 kbps	9262	1852.4	24.5	21.8	13.5	13.8
			9400	1880.0	24.5	22.0	13.5	13.8
			9538	1907.6	24.5	21.8	13.5	13.8
	HSDPA	Subtest 1	9262	1852.4	23.5	21.0	13.5	13.8
			9400	1880.0	23.5	20.9	13.5	13.8
			9538	1907.6	23.5	20.9	13.5	13.8
		Subtest 2	9262	1852.4	23.5	20.9	13.5	13.8
			9400	1880.0	23.5	20.9	13.5	13.8
			9538	1907.6	23.4	20.9	13.5	13.8
		Subtest 3	9262	1852.4	23.0	20.4	13.4	13.8
			9400	1880.0	23.0	20.4	13.5	13.8
			9538	1907.6	23.0	20.5	13.3	13.7
		Subtest 4	9262	1852.4	23.0	20.4	13.4	13.7
			9400	1880.0	23.0	20.5	13.4	13.8
			9538	1907.6	23.0	20.4	13.3	13.8
	HSUPA	Subtest 1	9262	1852.4	23.5	20.9	13.4	13.8
			9400	1880.0	23.5	20.9	13.4	13.8
			9538	1907.6	23.5	20.9	13.4	13.7
		Subtest 2	9262	1852.4	21.5	19.1	13.3	13.7
			9400	1880.0	21.5	19.1	13.4	13.8
			9538	1907.6	21.5	19.0	13.4	13.8
		Subtest 3	9262	1852.4	22.5	20.0	13.4	13.7
			9400	1880.0	22.5	20.1	13.5	13.8
			9538	1907.6	22.5	20.0	13.3	13.7
		Subtest 4	9262	1852.4	21.7	19.1	13.4	13.6
			9400	1880.0	21.7	19.1	13.5	13.7
			9538	1907.6	21.4	19.0	13.3	13.7
		Subtest 5	9262	1852.4	23.5	20.9	13.5	13.8
			9400	1880.0	23.5	20.9	13.5	13.8
			9538	1907.6	23.5	20.9	13.5	13.8
	DC-HSDPA	Subtest 1	9262	1852.4	23.4	22.4	13.5	13.8
			9400	1880.0	23.4	22.4	13.5	13.8
			9538	1907.6	23.3	22.4	13.5	13.7
		Subtest 2	9262	1852.4	23.4	22.4	13.5	13.7
			9400	1880.0	23.4	22.4	13.5	13.8
			9538	1907.6	23.4	22.4	13.5	13.8
		Subtest 3	9262	1852.4	23.0	21.9	13.4	13.7
			9400	1880.0	23.0	21.9	13.5	13.8
			9538	1907.6	22.9	21.9	13.3	13.7
		Subtest 4	9262	1852.4	23.0	21.9	13.4	13.6
			9400	1880.0	22.9	21.9	13.4	13.7
			9538	1907.6	22.9	21.9	13.3	13.7

W-CDMA Band IV Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
W-CDMA Band IV	Rel 99	RMC, 12.2 kbps	1312	1712.4	24.5	21.7	13.5	13.5
			1413	1732.6	24.5	22.0	13.4	13.5
			1513	1752.6	24.5	21.8	13.4	13.5
	HSDPA	Subtest 1	1312	1712.4	23.5	20.9	13.4	13.5
			1413	1732.6	23.5	20.9	13.4	13.5
			1513	1752.6	23.5	20.9	13.3	13.5
		Subtest 2	1312	1712.4	23.5	20.8	13.4	13.5
			1413	1732.6	23.5	20.8	13.4	13.5
			1513	1752.6	23.5	20.8	13.4	13.5
		Subtest 3	1312	1712.4	23.0	20.3	13.4	13.5
			1413	1732.6	23.0	20.4	13.4	13.5
			1513	1752.6	23.0	20.4	13.4	13.4
		Subtest 4	1312	1712.4	23.0	20.4	13.4	13.4
			1413	1732.6	23.0	20.4	13.4	13.5
			1513	1752.6	23.0	20.4	13.3	13.5
	HSUPA	Subtest 1	1312	1712.4	23.5	20.9	13.4	13.4
			1413	1732.6	23.5	20.8	13.4	13.5
			1513	1752.6	23.4	20.9	13.4	13.5
		Subtest 2	1312	1712.4	21.5	18.9	13.4	13.5
			1413	1732.6	21.4	18.9	13.4	13.5
			1513	1752.6	21.4	18.8	13.4	13.4
		Subtest 3	1312	1712.4	22.5	19.9	13.4	13.4
			1413	1732.6	22.4	19.8	13.4	13.5
			1513	1752.6	22.5	19.9	13.4	13.5
		Subtest 4	1312	1712.4	21.7	18.9	13.4	13.5
			1413	1732.6	21.7	18.8	13.4	13.5
			1513	1752.6	21.6	18.8	13.4	13.5
		Subtest 5	1312	1712.4	23.5	20.9	13.4	13.5
			1413	1732.6	23.5	20.8	13.4	13.5
			1513	1752.6	23.5	20.9	13.3	13.5
	DC-HSDPA	Subtest 1	1312	1712.4	23.4	20.9	13.4	13.4
			1413	1732.6	23.5	20.8	13.4	13.5
			1513	1752.6	23.4	20.9	13.3	13.5
		Subtest 2	1312	1712.4	23.5	20.9	13.4	13.5
			1413	1732.6	23.4	20.9	13.4	13.5
			1513	1752.6	23.3	20.8	13.4	13.4
		Subtest 3	1312	1712.4	22.9	20.4	13.4	13.4
			1413	1732.6	22.9	20.4	13.4	13.5
			1513	1752.6	22.8	20.4	13.4	13.5
		Subtest 4	1312	1712.4	22.9	20.5	13.4	13.5
			1413	1732.6	22.9	20.4	13.4	13.5
			1513	1752.6	22.8	20.4	13.3	13.5

W-CDMA Band V Measured Results

Band	Mode		UL Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
W-CDMA Band V	Rel 99	RMC, 12.2 kbps	4132	826.4	25.0	23.4	17.3	17.3
			4183	836.6	25.0	23.3	17.3	17.3
			4233	846.6	25.0	23.5	17.3	17.3
	HSDPA	Subtest 1	4132	826.4	24.0	22.5	17.3	17.3
			4183	836.6	24.0	22.3	17.3	17.3
			4233	846.6	24.0	22.4	17.3	17.3
		Subtest 2	4132	826.4	24.0	22.4	17.3	17.3
			4183	836.6	24.0	22.3	17.3	17.3
			4233	846.6	24.0	22.3	17.3	17.3
		Subtest 3	4132	826.4	23.5	22.0	17.3	17.3
			4183	836.6	23.4	21.9	17.3	17.3
			4233	846.6	23.5	21.9	17.3	17.3
		Subtest 4	4132	826.4	23.5	21.9	17.3	17.3
			4183	836.6	23.5	22.0	17.3	17.3
			4233	846.6	23.4	21.9	17.3	17.3
	HSUPA	Subtest 1	4132	826.4	24.0	22.4	17.3	17.3
			4183	836.6	24.0	22.3	17.3	17.3
			4233	846.6	24.0	22.4	17.3	17.3
		Subtest 2	4132	826.4	22.0	20.4	17.3	17.3
			4183	836.6	22.1	20.3	17.3	17.3
			4233	846.6	22.1	20.3	17.3	17.3
		Subtest 3	4132	826.4	23.0	21.3	17.3	17.3
			4183	836.6	23.0	21.3	17.3	17.3
			4233	846.6	23.0	21.3	17.3	17.3
		Subtest 4	4132	826.4	22.0	20.3	17.3	17.3
			4183	836.6	22.0	20.2	17.3	17.3
			4233	846.6	22.0	20.2	17.3	17.3
		Subtest 5	4132	826.4	24.0	22.4	17.3	17.3
			4183	836.6	24.0	22.3	17.3	17.3
			4233	846.6	24.0	22.3	17.3	17.3
	DC-HSDPA	Subtest 1	4132	826.4	23.4	22.4	17.3	17.3
			4183	836.6	23.4	22.4	17.3	17.3
			4233	846.6	23.3	22.4	17.3	17.3
		Subtest 2	4132	826.4	23.4	22.4	17.3	17.3
			4183	836.6	23.4	22.4	17.3	17.3
			4233	846.6	23.4	22.4	17.3	17.3
		Subtest 3	4132	826.4	23.0	21.9	17.3	17.3
			4183	836.6	23.0	21.9	17.3	17.3
			4233	846.6	22.9	21.9	17.3	17.3
		Subtest 4	4132	826.4	23.0	21.9	17.3	17.3
			4183	836.6	22.9	21.9	17.3	17.3
			4233	846.6	22.9	21.9	17.3	17.3

9.3. CDMA

1x Advanced Setup Procedures used to establish the test signals

Call box setup procedure

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

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

Call box setup procedure

- CMW 500 Signal Generator > 1xEV-DO Taskbar Enable
- CMW 500 1xEV-DO Signaling Configuration Window >
- 1xEV-DO Signaling On Window:
Under Access Network Control:
Band Class: BC0: US Cellular
RF Channel: 31
1xEV-DO Power: -70 dBm
Release B
- 1xEV-DO Signaling Configuration Window
Under RF Frequency Band / Channel: Enter Ch. Frequency
➤ Under Carrier Configuration: RF Frequency
For Two Carriers: Low Channel (1013)

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

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

For Three Carriers: Low Channel (1013)

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

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

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

CDMA BC0 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
BC 0	1xRTT	RC1 SO55 (Loopback)	1013	824.7	24.4	23.4	17.0	17.1
			384	836.5	24.3	23.4	17.0	17.2
			777	848.3	24.4	23.4	17.0	17.2
		RC3 SO55 (Loopback)	1013	824.7	24.4	23.4	17.0	17.1
			384	836.5	24.4	23.4	17.0	17.2
			777	848.3	24.4	23.4	17.0	17.2
		RC3 SO32 (+F-SCH)	1013	824.7	24.4	23.4	17.0	17.1
			384	836.5	24.4	23.4	17.0	17.2
			777	848.3	24.5	23.4	17.0	17.2
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.7	24.4	23.5	17.0	17.1
			384	836.5	24.4	23.4	17.0	17.2
			777	848.3	24.5	23.5	17.0	17.2
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	1013	824.7	24.4	23.5	17.0	17.3
			384	836.5	24.3	23.4	17.0	17.3
			777	848.3	24.5	23.4	17.0	17.3
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	1013	824.7	24.5	23.5	17.0	17.3
			384	836.5	24.5	23.5	17.0	17.3
			777	848.3	24.5	23.5	17.0	17.3

CDMA BC1 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
BC 1	1xRTT	RC1 SO55 (Loopback)	25	1851.3	24.3	21.9	13.3	13.4
			600	1880.0	24.4	21.9	13.4	13.7
			1175	1908.8	24.2	21.9	13.3	13.4
		RC3 SO55 (Loopback)	25	1851.3	24.3	21.7	13.3	13.4
			600	1880.0	24.5	21.9	13.4	13.7
			1175	1908.8	24.4	21.7	13.3	13.4
		RC3 SO32 (+F-SCH)	25	1851.3	24.3	21.7	13.3	13.4
			600	1880.0	24.5	21.9	13.4	13.7
			1175	1908.8	24.3	21.8	13.3	13.4
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.3	24.4	21.8	13.3	13.4
			600	1880.0	24.5	21.8	13.4	13.7
			1175	1908.8	24.3	21.8	13.3	13.4
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1851.3	24.3	21.9	13.3	13.2
			600	1880.0	24.5	22.0	13.4	13.4
			1175	1908.8	24.3	21.9	13.3	13.2
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1851.3	24.4	21.9	13.3	13.2
			600	1880.0	24.5	22.0	13.4	13.4
			1175	1908.8	24.4	21.9	13.3	13.2

CDMA BC10 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
BC 10	1xRTT	RC1 SO55 (Loopback)	476	817.9	25.0	23.4	16.7	17.2
			580	820.5	24.9	23.3	16.9	17.2
			684	823.1	24.9	23.5	16.9	17.2
		RC3 SO55 (Loopback)	476	817.9	24.9	23.4	16.7	17.2
			580	820.5	24.9	23.3	16.9	17.2
			684	823.1	24.9	23.4	16.9	17.2
		RC3 SO32 (+F-SCH)	476	817.9	24.9	23.4	16.7	17.3
			580	820.5	24.9	23.3	16.9	17.2
			684	823.1	24.9	23.4	16.9	17.3
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	476	817.9	24.9	23.5	16.7	17.2
			580	820.5	25.0	23.4	16.9	17.2
			684	823.1	25.0	23.5	16.9	17.2
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	476	817.9	24.9	23.3	17.0	17.2
			580	820.5	25.0	23.2	17.0	17.2
			684	823.1	24.9	23.5	17.0	17.2
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	476	817.9	25.0	23.5	17.0	17.2
			580	820.5	25.0	23.4	17.0	17.2
			684	823.1	24.9	23.5	17.0	17.2

CDMA BC15 Measured Results

Band	Mode		Ch No.	Freq. (MHz)	Emission Power		Body Power	
					Antenna C Pwr (dBm)	Antenna D Pwr (dBm)	Antenna C Pwr (dBm)	Antenna D Pwr (dBm)
BC 15	1xRTT	RC1 SO55 (Loopback)	25	1711.3	24.4	21.8	13.5	13.5
			450	1732.5	24.3	21.9	13.5	13.5
			875	1753.8	24.3	21.8	13.5	13.5
		RC3 SO55 (Loopback)	25	1711.3	24.4	21.8	13.5	13.5
			450	1732.5	24.3	21.9	13.5	13.5
			875	1753.8	24.4	21.8	13.5	13.5
		RC3 SO32 (+F-SCH)	25	1711.3	24.4	21.8	13.5	13.5
			450	1732.5	24.3	21.9	13.5	13.5
			875	1753.8	24.4	21.9	13.5	13.5
	1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1711.3	24.5	21.9	13.5	13.5
			450	1732.5	24.3	21.9	13.5	13.5
			875	1753.8	24.4	21.9	13.5	13.5
	1xEVDO Rel. 0	FTAP Rate: 307.2 kbps(2 slot, QPSK) RTAP Rate: 153.6 kbps	25	1711.3	24.3	21.8	13.5	13.5
			450	1732.5	24.4	22.0	13.5	13.5
			875	1753.8	24.5	21.9	13.5	13.5
	1xEVDO Rev. A	FETAP: 307.2k, QPSK/ ACK RETAP: 4096	25	1711.3	24.5	21.9	13.5	13.5
			450	1732.5	24.4	22.0	13.5	13.5
			875	1753.8	24.5	22.0	13.5	13.5

9.4. LTE

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

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

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

Modulation	Channel bandwidth / Transmission bandwidth (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

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 (sub-clause)	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	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 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 6.6.3.3.2	13	10	Table 6.2.4-2	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	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

LTE Band 2 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body power Antenna D		
						1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz		1860 MHz	1880 MHz	1900 MHz
LTE Band 2	20	QPSK	1	0	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	49	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	99	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			50	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			50	24	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			50	49	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	100	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	49	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	99	1	23.6	23.5	23.6	1	21.1	21.0	21.1	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			50	0	2	22.5	22.5	22.6	2	20.0	20.0	20.1	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			50	24	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			50	49	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			100	0	2	22.5	22.6	22.5	2	20.0	20.1	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body power Antenna D		
						1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz		1857.5 MHz	1880 MHz	1902.5 MHz
LTE Band 2	15	QPSK	1	0	0	24.5	24.4	24.4	0	22.0	21.9	21.9	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	36	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	74	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			36	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			36	18	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			36	37	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	75	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.6	23.6	23.6	1	21.1	21.1	21.1	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	36	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	74	1	23.5	23.6	23.5	1	21.0	21.1	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			36	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			36	18	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			36	37	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			75	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body power Antenna D		
						1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz		1855 MHz	1880 MHz	1905 MHz
LTE Band 2	10	QPSK	1	0	0	24.5	24.5	24.4	0	22.0	22.0	21.9	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	24	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	49	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			25	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			25	12	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			25	24	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	50	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	24	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	49	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			25	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			25	12	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			25	24	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			50	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6

LTE Band 2 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz		1852.5 MHz	1880 MHz	1907.5 MHz
LTE Band 2	5	QPSK	1	0	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	12	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	24	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			12	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			12	7	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			12	13	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	25	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	12	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	24	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			12	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			12	7	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			12	13	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			25	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz		1851.5 MHz	1880 MHz	1908.5 MHz
LTE Band 2	3	QPSK	1	0	0	24.5	24.5	24.5	0	22.0	22.0	22.0	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	8	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	14	0	24.5	24.5	24.4	0	22.0	22.0	21.9	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			8	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			8	4	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			8	7	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	15	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	8	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	14	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			8	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			8	4	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			8	7	2	22.5	22.5	22.6	2	20.0	20.0	20.1	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			15	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz		1850.7 MHz	1880 MHz	1909.3 MHz
LTE Band 2	1.4	QPSK	1	0	0	24.5	24.4	24.5	0	22.0	21.9	22.0	0	12.9	12.9	12.8	0	13.7	13.7	13.7
			1	3	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.8
			1	5	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	12.8	12.9	12.9	0	13.7	13.7	13.7
			3	0	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			3	1	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.8
			3	3	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	12.8	12.9	12.9	0	13.6	13.7	13.6
		16QAM	6	0	1	23.5	23.6	23.5	1	21.0	21.1	21.0	0	13.0	13.0	13.0	0	13.8	13.8	13.8
			1	0	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6
			1	3	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.8	12.9	12.8	0	13.7	13.7	13.7
			1	5	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.8	12.8	12.8	0	13.7	13.7	13.7
			3	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.7	12.7	12.7	0	13.7	13.7	13.7
			3	1	1	23.5	23.6	23.5	1	21.0	21.1	21.0	0	12.9	12.9	12.9	0	13.7	13.7	13.7
			3	3	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.9	12.9	12.9	0	13.6	13.6	13.6
			6	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.8	12.8	12.8	0	13.6	13.6	13.6

LTE Band 4 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz		1720 MHz	1732.5 MHz	1745 MHz
LTE Band 4	20	QPSK	1	0	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	49	0	23.9	23.9	23.9	0	20.9	20.9	20.9	0	13.8	13.8	13.8	0	13.5	13.5	13.5
			1	99	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			50	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			50	24	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.8	13.7	0	13.5	13.5	13.5
			50	49	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
		16QAM	100	0	1	23.1	23.0	23.0	1	20.1	20.0	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
			1	0	1	23.1	23.0	23.0	1	20.1	20.0	20.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	49	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	99	1	23.1	23.0	23.1	1	20.1	20.0	20.1	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			50	0	2	22.0	22.0	22.1	2	19.0	19.0	19.1	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			50	24	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			50	49	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			100	0	2	22.0	22.1	22.0	2	19.0	19.1	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz
LTE Band 4	15	QPSK	1	0	0	24.0	23.9	23.9	0	21.0	20.9	20.9	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	36	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	74	0	23.9	23.9	23.9	0	20.9	20.9	20.9	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			36	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			36	18	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			36	37	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			75	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
		16QAM	1	0	1	23.1	23.1	23.1	1	20.1	20.1	20.1	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	36	1	23.1	23.1	23.0	1	20.1	20.1	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	74	1	23.0	23.1	23.0	1	20.0	20.1	20.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			36	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			36	18	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			36	37	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			75	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz		1715 MHz	1732.5 MHz	1750 MHz
LTE Band 4	10	QPSK	1	0	0	24.0	24.0	23.9	0	21.0	21.0	20.9	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	24	0	24.0	23.9	23.9	0	20.9	20.9	20.9	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	49	0	23.9	23.9	23.9	0	20.9	20.9	20.9	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			25	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			25	12	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			25	24	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			50	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
		16QAM	1	0	1	23.1	23.0	23.0	1	20.1	20.0	20.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	24	1	23.1	23.1	23.0	1	20.1	20.1	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	49	1	23.1	23.1	23.0	1	20.1	20.1	20.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			25	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			25	12	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			25	24	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			50	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5

LTE Band 4 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz
LTE Band 4	5	QPSK	1	0	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	12	0	23.9	23.9	24.0	0	20.9	20.9	21.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	24	0	23.9	23.9	24.0	0	20.9	20.9	21.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			12	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			12	7	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			12	13	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
		16QAM	25	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
			1	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	12	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	24	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			12	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			12	7	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			12	13	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			25	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz
LTE Band 4	3	QPSK	1	0	0	24.0	24.0	24.0	0	21.0	21.0	21.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	8	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	14	0	24.0	24.0	23.9	0	21.0	21.0	20.9	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			8	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			8	4	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			8	7	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
		16QAM	15	0	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
			1	0	1	23.1	23.0	23.0	1	20.0	20.0	20.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	8	1	23.0	23.0	23.0	1	20.1	20.1	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	14	1	23.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			8	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			8	4	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			8	7	2	22.0	22.0	22.1	2	19.0	19.0	19.1	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			15	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz
LTE Band 4	1.4	QPSK	1	0	0	24.0	23.9	24.0	0	21.0	20.9	21.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	3	0	23.9	24.0	23.9	0	20.9	21.0	20.9	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	5	0	23.9	23.9	24.0	0	20.9	20.9	21.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			3	0	0	23.0	23.9	24.0	0	20.9	20.9	21.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			3	1	0	23.0	23.9	23.9	0	20.9	20.9	20.9	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			3	3	0	23.0	24.0	23.9	0	20.9	21.0	20.9	0	13.6	13.8	13.6	0	13.5	13.4	13.4
		16QAM	6	0	1	23.0	23.1	23.0	1	20.0	20.1	20.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5
			1	0	1	23.0	23.1	23.0	1	20.1	20.1	20.0	0	13.8	13.7	13.8	0	13.5	13.5	13.5
			1	3	1	23.0	23.1	23.0	1	20.1	20.1	20.0	0	13.7	13.7	13.7	0	13.4	13.4	13.4
			1	5	1	23.0	23.0	23.0	1	20.1	20.0	20.0	0	13.7	13.8	13.7	0	13.4	13.4	13.4
			3	0	1	22.0	23.0	23.0	1	20.0	20.0	20.0	0	13.7	13.7	13.7	0	13.4	13.5	13.5
			3	1	1	22.0	23.1	23.0	1	20.0	20.1	20.0	0	13.6	13.7	13.6	0	13.4	13.4	13.4
			3	3	1	22.1	23.0	23.0	1	20.0	20.0	20.0	0	13.6	13.8	13.6	0	13.5	13.4	13.4
			6	0	2	22.0	22.0	22.0	2	19.0	19.0	19.0	0	13.8	13.8	13.6	0	13.5	13.5	13.5

LTE Band 5 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz
LTE Band 5	10	QPSK	1	0	0	24.5	24.5	24.4	0	22.5	22.5	22.4	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	24	0	24.4	24.4	24.4	0	22.4	22.4	22.4	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	49	0	24.4	24.4	24.4	0	22.4	22.4	22.4	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			25	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			25	12	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			25	24	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	50	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	0	1	23.6	23.5	23.5	1	21.6	21.5	21.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	24	1	23.6	23.6	23.5	1	21.6	21.6	21.5	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	49	1	23.6	23.6	23.5	1	21.6	21.6	21.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			25	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			25	12	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			25	24	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			50	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz
LTE Band 5	5	QPSK	1	0	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	12	0	24.4	24.4	24.5	0	22.4	22.4	22.5	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	24	0	24.4	24.4	24.5	0	22.4	22.4	22.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			12	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			12	7	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			12	13	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	25	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	12	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	24	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			12	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			12	7	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			12	13	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			25	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz
LTE Band 5	3	QPSK	1	0	0	24.5	24.5	24.5	0	22.5	22.5	22.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	8	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	14	0	24.5	24.5	24.4	0	22.5	22.5	22.4	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			8	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			8	4	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			8	7	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	15	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	0	1	23.6	23.5	23.5	1	21.6	21.5	21.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	8	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	14	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			8	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			8	4	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			8	7	2	22.5	22.5	22.6	2	20.5	20.5	20.6	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			15	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4

LTE Band 5 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz
LTE Band 5	1.4	QPSK	1	0	0	24.5	24.4	24.5	0	22.5	22.4	22.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	2	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	5	0	24.4	24.4	24.5	0	22.4	22.4	22.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			3	0	0	24.4	24.4	24.5	0	22.4	22.4	22.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			3	1	0	24.4	24.4	24.4	0	22.4	22.4	22.4	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			3	2	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	6	0	1	23.5	23.6	23.5	1	21.5	21.6	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	0	1	23.6	23.6	23.5	1	21.6	21.6	21.5	0	16.9	16.9	16.9	0	17.4	17.4	17.4
			1	2	1	23.6	23.6	23.5	1	21.6	21.6	21.5	0	17.0	17.0	16.9	0	17.5	17.5	17.4
			1	5	1	23.6	23.5	23.5	1	21.6	21.5	21.5	0	16.8	16.8	16.8	0	17.3	17.3	17.3
			3	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	16.9	16.9	16.9	0	17.3	17.3	17.3
			3	1	1	23.5	23.6	23.5	1	21.5	21.6	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			3	2	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			6	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4

LTE Band 7 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz		2510 MHz	2535 MHz	2560 MHz
LTE Band 7	20	QPSK	1	0	0	22.3	22.3	22.3	0	20.9	21.0	20.9	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	49	0	22.2	22.2	22.2	0	20.9	20.9	20.9	0	11.8	11.8	11.8	0	11.5	11.5	11.5
			1	99	0	22.2	22.3	22.3	0	20.9	21.0	20.9	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			50	0	1	21.3	21.3	21.3	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			50	24	1	21.3	21.4	21.4	1	20.0	20.0	20.0	0	11.7	11.8	11.8	0	11.5	11.5	11.5
			50	49	1	21.3	21.4	21.4	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
		16QAM	100	0	1	21.4	21.4	21.4	1	20.1	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			1	0	1	21.4	21.3	21.3	1	20.1	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	49	1	21.4	21.3	21.3	1	20.0	20.0	20.0	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	99	1	21.4	21.3	21.3	1	20.1	20.0	20.1	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			50	0	2	20.4	20.3	20.3	2	19.0	19.0	19.1	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			50	24	2	20.3	20.3	20.3	2	19.0	19.0	19.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			50	49	2	20.3	20.4	20.4	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			100	0	2	20.3	20.4	20.4	2	19.0	19.1	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz		2507.5 MHz	2535 MHz	2562.5 MHz
LTE Band 7	15	QPSK	1	0	0	22.3	22.3	22.3	0	21.0	20.9	20.9	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	36	0	22.3	22.3	22.3	0	20.9	21.0	20.9	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	74	0	22.3	22.2	22.3	0	20.9	20.9	20.9	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			36	0	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			36	18	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			36	37	1	21.4	21.3	21.3	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			75	0	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
		16QAM	1	0	1	21.4	21.4	21.4	1	20.1	20.1	20.1	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	36	1	21.4	21.4	21.4	1	20.1	20.1	20.0	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	74	1	21.4	21.4	21.3	1	20.0	20.1	20.0	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			36	0	2	20.3	20.4	20.3	2	19.0	19.0	19.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			36	18	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			36	37	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			75	0	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz		2505 MHz	2535 MHz	2565 MHz
LTE Band 7	10	QPSK	1	0	0	22.3	22.3	22.2	0	21.0	21.0	20.9	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	24	0	22.3	22.3	22.3	0	21.0	20.9	20.9	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	49	0	22.3	22.3	22.2	0	20.9	20.9	20.9	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			25	0	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			25	12	1	21.4	21.4	21.4	1	20.0	20.0	20.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			25	24	1	21.4	21.4	21.4	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			50	0	1	21.4	21.4	21.4	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
		16QAM	1	0	1	21.4	21.4	21.3	1	20.1	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	24	1	21.4	21.4	21.4	1	20.1	20.1	20.0	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	49	1	21.4	21.4	21.4	1	20.1	20.1	20.0	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			25	0	2	20.3	20.3	20.4	2	19.0	19.0	19.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			25	12	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			25	24	2	20.4	20.4	20.4	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			50	0	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5

LTE Band 7 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz		2502.5 MHz	2535 MHz	2567.5 MHz
LTE Band 7	5	QPSK	1	0	0	22.3	22.3	22.3	0	20.9	21.0	20.9	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	12	0	22.3	22.2	22.3	0	20.9	20.9	21.0	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	24	0	22.3	22.3	22.3	0	20.9	20.9	21.0	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			12	0	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			12	7	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			12	13	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			25	0	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
		16QAM	1	0	1	21.4	21.4	21.4	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.4	11.5	11.5
			1	12	1	21.4	21.4	21.4	1	20.0	20.0	20.0	0	11.8	11.8	11.8	0	11.3	11.3	11.3
			1	24	1	21.4	21.4	21.3	1	20.0	20.0	20.0	0	11.7	11.7	11.7	0	11.5	11.3	11.3
			12	0	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.7	11.7	11.7	0	11.4	11.4	11.4
			12	7	2	20.4	20.4	20.4	2	19.0	19.0	19.0	0	11.7	11.8	11.8	0	11.4	11.4	11.4
			12	13	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5
			25	0	2	20.4	20.4	20.3	2	19.0	19.0	19.0	0	11.6	11.6	11.6	0	11.5	11.5	11.5

LTE Band 12 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz		704 MHz	707.5 MHz	711 MHz
LTE Band 12	10	QPSK	1	0	0	25.0	24.8	25.0	0	23.0	22.8	23.0	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	24	0	25.0	24.9	25.0	0	23.0	22.9	23.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	49	0	24.9	24.9	25.0	0	22.9	22.9	23.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			25	0	1	23.9	23.9	23.9	1	21.9	21.9	21.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			25	12	1	24.0	24.0	24.0	1	22.0	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			25	24	1	24.0	24.0	23.9	1	22.0	22.0	21.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
		16QAM	50	0	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			1	0	1	24.0	24.1	24.0	1	22.0	22.1	22.0	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	24	1	24.0	24.0	24.0	1	22.0	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	49	1	24.0	24.0	24.0	1	22.0	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			25	0	2	23.0	22.9	22.9	2	21.0	20.9	20.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			25	12	2	23.0	23.0	23.0	2	21.0	21.0	21.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			25	24	2	23.1	23.0	22.9	2	21.1	21.0	20.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			50	0	2	22.9	22.8	22.9	2	20.9	20.8	20.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz
LTE Band 12	5	QPSK	1	0	0	25.0	24.9	25.0	0	23.0	22.9	23.0	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	12	0	25.0	24.9	24.9	0	23.0	22.9	22.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	24	0	24.9	24.9	24.9	0	22.9	22.9	22.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			12	0	1	23.9	23.9	23.8	1	21.9	21.9	21.8	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			12	7	1	24.0	24.0	23.9	1	22.0	22.0	21.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			12	13	1	24.0	23.9	23.8	1	22.0	21.9	21.8	0	18.5	18.5	18.5	0	18.5	18.5	18.5
		16QAM	25	0	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			1	0	1	24.1	24.0	24.1	1	22.1	22.0	22.1	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	12	1	24.0	24.0	24.0	1	22.0	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	24	1	24.1	24.0	24.0	1	22.1	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			12	0	2	23.0	22.9	22.8	2	21.0	20.9	20.8	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			12	7	2	23.1	23.0	22.9	2	21.1	21.0	20.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			12	13	2	23.1	22.9	22.9	2	21.1	20.9	20.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			25	0	2	22.9	22.9	22.9	2	20.9	20.9	20.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz
LTE Band 12	3	QPSK	1	0	0	24.9	25.0	24.9	0	22.9	23.0	22.9	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	8	0	25.0	24.9	24.9	0	23.0	22.9	22.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	14	0	24.9	24.9	24.0	0	22.9	22.9	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			8	0	1	24.0	23.9	23.8	1	22.0	21.9	21.8	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			8	4	1	24.0	24.0	23.9	1	22.0	22.0	21.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			8	7	1	24.0	24.0	23.8	1	22.0	22.0	21.8	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			15	0	1	24.0	23.9	23.8	1	22.0	21.9	21.8	0	18.4	18.4	18.4	0	18.5	18.5	18.5
		16QAM	1	0	1	24.0	24.0	24.1	1	22.0	22.0	22.1	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	8	1	24.1	24.1	24.0	1	22.1	22.1	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	14	1	24.1	24.1	24.0	1	22.1	22.1	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			8	0	2	23.1	23.1	23.0	2	21.1	21.1	21.0	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			8	4	2	23.1	23.1	23.0	2	21.1	21.1	21.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			8	7	2	23.1	23.1	23.0	2	21.1	21.1	21.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			15	0	2	23.0	23.0	22.8	2	21.0	21.0	20.8	0	18.4	18.4	18.4	0	18.5	18.5	18.5

LTE Band 12 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna D			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz
LTE Band 12	1.4	QPSK	1	0	0	25.0	24.9	24.9	0	23.0	22.9	22.9	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	2	0	25.0	25.0	24.9	0	23.0	23.0	22.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	5	0	24.9	24.9	24.9	0	22.9	22.9	22.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			3	0	0	25.0	25.0	24.9	0	23.0	23.0	22.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			3	1	0	24.9	25.0	24.8	0	22.9	23.0	22.8	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			3	2	0	24.9	25.0	24.8	0	22.9	23.0	22.8	0	18.5	18.5	18.5	0	18.5	18.5	18.5
		16QAM	6	0	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			1	0	1	24.0	24.0	23.9	1	22.0	22.0	21.9	0	18.5	18.5	18.5	0	18.4	18.4	18.4
			1	2	1	23.9	24.0	23.9	1	21.9	22.0	21.9	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			1	5	1	24.0	24.0	24.0	1	22.0	22.0	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			3	0	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5
			3	1	1	24.0	23.9	24.0	1	22.0	21.9	22.0	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			3	2	1	24.0	23.9	23.8	1	22.0	21.9	21.8	0	18.5	18.5	18.5	0	18.5	18.5	18.5
			6	0	2	23.0	23.0	22.9	2	21.0	21.0	20.9	0	18.4	18.4	18.4	0	18.5	18.5	18.5

LTE Band 13 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
							782 MHz				782 MHz				782 MHz				782 MHz	
LTE Band 13	10	QPSK	1	0	0		23.9		0		22.3		0		18.0		0		18.0	
			1	24	0		23.9		0		22.3		0		18.1		0		18.2	
			1	49	0		23.9		0		22.3		0		18.0		0		18.1	
			25	0	1		23.0		1		21.4		0		18.0		0		18.1	
			25	12	1		23.1		1		21.5		0		18.3		0		18.2	
			25	24	1		23.1		1		21.5		0		18.0		0		18.0	
			50	0	1		23.0		1		21.4		0		18.2		0		18.2	
		16QAM	1	0	1		23.1		1		21.5		0		18.0		0		18.0	
			1	24	1		23.0		1		21.4		0		18.1		0		18.2	
			1	49	1		23.0		1		21.4		0		18.0		0		18.1	
			25	0	2		22.0		2		20.4		0		18.0		0		18.1	
			25	12	2		22.0		2		20.4		0		18.3		0		18.2	
			25	24	2		22.1		2		20.5		0		18.0		0		18.0	
			50	0	2		22.1		2		20.5		0		18.2		0		18.2	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz		779.5 MHz	782 MHz	784.5 MHz
LTE Band 13	5	QPSK	1	0	0	24.0	24.0	23.9	0	22.4	22.4	22.3	0	17.8	18.0	18.0	0	17.9	18.0	18.0
			1	12	0	24.0	23.9	23.9	0	22.4	22.3	22.3	0	18.0	18.1	18.0	0	18.1	18.2	18.1
			1	24	0	24.0	24.0	23.9	0	22.4	22.4	22.3	0	17.9	18.0	17.8	0	18.1	18.1	18.0
			12	0	1	22.9	23.0	23.0	1	21.3	21.4	21.4	0	18.1	18.0	18.0	0	18.2	18.1	18.1
			12	7	1	23.1	23.1	23.0	1	21.5	21.5	21.4	0	18.2	18.3	18.1	0	18.1	18.2	18.1
			12	13	1	23.1	23.1	23.0	1	21.5	21.5	21.4	0	18.2	18.0	18.0	0	18.0	18.0	18.0
			25	0	1	23.0	23.0	23.0	1	21.4	21.4	21.4	0	18.2	18.2	18.1	0	18.1	18.2	18.0
		16QAM	1	0	1	22.9	23.1	23.0	1	21.5	21.5	21.4	0	17.8	18.0	18.0	0	17.9	18.0	18.0
			1	12	1	23.1	23.1	23.1	1	21.5	21.5	21.5	0	18.0	18.1	18.0	0	18.1	18.2	18.1
			1	24	1	23.0	23.0	23.0	1	21.4	21.4	21.4	0	17.9	18.0	17.8	0	18.1	18.1	18.0
			12	0	2	22.0	22.1	22.0	2	20.4	20.5	20.4	0	18.1	18.0	18.0	0	18.2	18.1	18.1
			12	7	2	22.1	22.1	22.1	2	20.5	20.5	20.5	0	18.2	18.3	18.1	0	18.1	18.2	18.1
			12	13	2	22.0	22.1	22.1	2	20.4	20.5	20.5	0	18.2	18.0	18.0	0	18.0	18.0	18.0
			25	0	2	22.1	22.1	22.0	2	20.5	20.5	20.4	0	18.2	18.2	18.1	0	18.1	18.2	18.0

Note(s):

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

LTE Band 17 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
							710 MHz				710 MHz				710 MHz				710 MHz	
LTE Band 17	10	QPSK	1	0	0		25.0		0		23.0		0		18.4		0		18.0	
			1	24	0		25.0		0		23.0		0		18.5		0		18.1	
			1	49	0		24.9		0		22.9		0		18.4		0		18.0	
			25	0	1		23.9		1		21.9		0		18.5		0		18.1	
			25	12	1		23.9		1		21.9		0		18.5		0		18.2	
			25	24	1		24.0		1		22.0		0		18.4		0		18.1	
			50	0	1		24.0		1		22.0		0		18.4		0		18.2	
		16QAM	1	0	1		24.1		1		22.1		0		18.4		0		18.0	
			1	24	1		24.0		1		22.0		0		18.5		0		18.1	
			1	49	1		24.1		1		22.1		0		18.4		0		18.0	
			25	0	2		22.9		2		20.9		0		18.5		0		18.1	
			25	12	2		23.0		2		21.0		0		18.5		0		18.2	
			25	24	2		23.0		2		21.0		0		18.4		0		18.1	
			50	0	2		23.0		2		21.0		0		18.4		0		18.2	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz		706.5 MHz	710 MHz	713.5 MHz
LTE Band 17	5	QPSK	1	0	0	24.9	25.0	25.0	0	22.9	23.0	23.0	0	18.4	18.4	18.4	0	17.9	18.0	18.0
			1	12	0	24.9	25.0	24.9	0	22.9	23.0	22.9	0	18.5	18.5	18.5	0	18.0	18.1	18.0
			1	24	0	24.9	25.0	25.0	0	22.9	23.0	23.0	0	18.4	18.4	18.4	0	18.0	18.0	17.9
			12	0	1	23.9	23.9	23.9	1	21.9	21.9	21.9	0	18.4	18.5	18.4	0	18.1	18.1	18.1
			12	7	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.5	18.5	18.4	0	18.1	18.2	18.2
			12	13	1	24.0	23.9	23.9	1	22.0	21.9	21.9	0	18.5	18.4	18.4	0	18.1	18.1	18.2
			25	0	1	23.9	23.9	23.9	1	21.9	21.9	21.9	0	18.4	18.4	18.4	0	18.2	18.2	18.2
		16QAM	1	0	1	24.0	24.0	24.1	1	22.0	22.0	22.1	0	18.4	18.4	18.4	0	17.9	18.0	18.0
			1	12	1	24.1	24.0	24.0	1	22.1	22.0	22.0	0	18.5	18.5	18.5	0	18.0	18.1	18.0
			1	24	1	24.1	24.0	24.0	1	22.1	22.0	22.0	0	18.4	18.4	18.4	0	18.0	18.0	17.9
			12	0	2	23.0	22.9	23.0	2	21.0	20.9	21.0	0	18.4	18.5	18.4	0	18.1	18.1	18.1
			12	7	2	23.1	23.0	23.1	2	21.1	21.0	21.1	0	18.5	18.5	18.4	0	18.1	18.2	18.2
			12	13	2	23.0	23.0	23.0	2	21.0	21.0	21.0	0	18.5	18.4	18.4	0	18.1	18.1	18.2
			25	0	2	23.0	22.9	22.9	2	21.0	20.9	20.9	0	18.4	18.4	18.4	0	18.2	18.2	18.2

Note(s):

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

LTE Band 25 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz		1860 MHz	1882.5 MHz	1905 MHz
LTE Band 25	20	QPSK	1	0	0	24.5	24.5	24.4	0	22.0	22.0	22.0	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	49	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	99	0	24.4	24.5	24.4	0	21.9	22.0	22.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			50	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			50	24	1	23.5	23.6	23.5	1	21.0	21.1	21.1	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			50	49	1	23.5	23.6	23.5	1	21.0	21.1	21.1	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			100	0	1	23.6	23.6	23.5	1	21.1	21.1	21.1	0	13.0	13.0	13.0	0	13.7	13.8	13.7
		16QAM	1	0	1	23.6	23.5	23.6	1	21.1	21.0	21.0	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	49	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	99	1	23.6	23.5	23.6	1	21.1	21.0	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			50	0	2	22.6	22.5	22.6	2	20.1	20.0	20.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			50	24	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			50	49	2	22.5	22.6	22.5	2	20.0	20.1	20.1	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			100	0	2	22.5	22.6	22.5	2	20.0	20.1	20.1	0	13.0	13.0	12.9	0	13.7	13.7	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz
LTE Band 25	15	QPSK	1	0	0	24.5	24.5	24.5	0	22.0	22.0	22.0	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	36	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	74	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			36	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			36	18	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			36	37	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			75	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.8	13.7
		16QAM	1	0	1	23.6	23.6	23.6	1	21.1	21.1	21.1	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	36	1	23.6	23.6	23.6	1	21.1	21.1	21.1	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	74	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			36	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			36	18	2	22.5	22.6	22.5	2	20.0	20.1	20.0	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			36	37	2	22.6	22.6	22.5	2	20.1	20.1	20.0	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			75	0	2	22.5	22.6	22.5	2	20.0	20.1	20.0	0	13.0	13.0	12.9	0	13.7	13.7	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz		1855 MHz	1882.5 MHz	1910 MHz
LTE Band 25	10	QPSK	1	0	0	24.5	24.5	24.4	0	22.0	22.0	21.9	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	24	0	24.5	24.4	24.4	0	22.0	21.9	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	49	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			25	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			25	12	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			25	24	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			50	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.8	13.7
		16QAM	1	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	24	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	49	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			25	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			25	12	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			25	24	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			50	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.9	0	13.7	13.7	13.6

LTE Band 25 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna C			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz
LTE Band 25	5	QPSK	1	0	0	24.4	24.5	24.5	0	21.9	22.0	22.0	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	12	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	24	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			12	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			12	7	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			12	13	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			25	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.8	13.7
		16QAM	1	0	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	12	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	24	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			12	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			12	7	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			12	13	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			25	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.9	0	13.7	13.7	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna C			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz
LTE Band 25	3	QPSK	1	0	0	24.5	24.5	24.5	0	22.0	22.0	22.0	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	8	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	14	0	24.5	24.5	24.4	0	22.0	22.0	21.9	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			8	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			8	4	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			8	7	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
		16QAM	15	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	13.0	0	13.7	13.8	13.7
			1	0	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	8	1	23.6	23.6	23.5	1	21.0	21.0	21.0	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	14	1	23.6	23.5	23.5	1	21.0	21.0	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			8	0	2	22.6	22.5	22.5	2	20.1	20.0	20.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			8	4	2	22.6	22.5	22.6	2	20.1	20.0	20.1	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			8	7	2	22.6	22.6	22.6	2	20.1	20.1	20.1	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			15	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.9	0	13.7	13.7	13.6
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna C			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz
LTE Band 25	1.4	QPSK	1	0	0	24.5	24.5	24.5	0	22.0	22.0	22.0	0	13.0	13.0	13.0	0	13.6	13.6	13.6
			1	3	0	24.4	24.5	24.4	0	21.9	22.0	21.9	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			1	5	0	24.4	24.4	24.5	0	21.9	21.9	22.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			3	0	0	24.5	24.4	24.5	0	22.0	21.9	22.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
			3	1	0	24.4	24.4	24.4	0	21.9	21.9	21.9	0	13.0	13.0	13.0	0	13.8	13.7	13.7
			3	3	0	24.4	24.5	24.5	0	21.9	22.0	22.0	0	13.0	13.0	13.0	0	13.7	13.7	13.7
		16QAM	6	0	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	13.0	13.0	13.0	0	13.7	13.8	13.7
			1	0	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	13.0	12.9	0	13.5	13.5	13.5
			1	3	1	23.6	23.6	23.5	1	21.1	21.1	21.0	0	12.9	13.0	12.7	0	13.6	13.6	13.6
			1	5	1	23.6	23.5	23.5	1	21.1	21.0	21.0	0	12.9	12.9	12.7	0	13.5	13.5	13.5
			3	0	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	13.0	13.0	12.8	0	13.5	13.6	13.6
			3	1	1	23.5	23.6	23.5	1	21.0	21.1	21.0	0	12.9	13.0	12.9	0	13.6	13.6	13.5
			3	3	1	23.5	23.5	23.5	1	21.0	21.0	21.0	0	12.9	13.0	12.9	0	13.7	13.7	13.6
			6	0	2	22.5	22.5	22.5	2	20.0	20.0	20.0	0	13.0	13.0	12.9	0	13.7	13.7	13.6

LTE Band 26 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						819 MHz	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz		819 MHz	831.5 MHz	844 MHz
LTE Band 26	10	QPSK	1	0	0	24.4	24.5	24.5	0	22.4	22.5	22.3	0	17.3	17.2	17.4	0	17.6	17.6	17.6
			1	24	0	24.4	24.5	24.4	0	22.5	22.5	22.5	0	17.5	17.2	17.5	0	17.8	17.6	17.8
			1	49	0	24.4	24.4	24.4	0	22.4	22.4	22.4	0	17.2	17.1	17.3	0	17.7	17.5	17.6
			25	0	1	23.5	23.5	23.4	1	21.4	21.5	21.4	0	17.2	17.2	17.3	0	17.6	17.4	17.5
			25	12	1	23.5	23.5	23.5	1	21.5	21.5	21.4	0	17.3	17.2	17.5	0	17.8	17.4	17.8
			25	24	1	23.4	23.5	23.5	1	21.5	21.5	21.5	0	17.3	17.1	17.4	0	17.7	17.3	17.6
		16QAM	50	0	1	23.5	23.5	23.4	1	21.5	21.5	21.5	0	17.1	17.1	17.1	0	17.4	17.4	17.4
			1	0	1	23.4	23.5	23.5	1	21.4	21.5	21.4	0	17.3	17.2	17.3	0	17.6	17.5	17.5
			1	24	1	23.5	23.4	23.4	1	21.5	21.4	21.5	0	17.4	17.2	17.3	0	17.7	17.6	17.7
			1	49	1	23.5	23.5	23.3	1	21.4	21.5	21.3	0	17.2	17.0	17.3	0	17.7	17.5	17.6
			25	0	2	22.4	22.5	22.3	2	20.5	20.5	20.4	0	17.2	17.2	17.3	0	17.5	17.4	17.5
			25	12	2	22.4	22.5	22.4	2	20.5	20.5	20.5	0	17.3	17.1	17.4	0	17.6	17.4	17.7
			25	24	2	22.5	22.5	22.5	2	20.5	20.5	20.4	0	17.2	17.2	17.4	0	17.6	17.3	17.5
			50	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	0	17.3	17.1	17.1	0	17.4	17.3	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz
LTE Band 26	5	QPSK	1	0	0	24.5	24.4	24.4	0	22.5	22.4	22.4	0	17.3	17.2	17.4	0	17.6	17.6	17.6
			1	12	0	24.4	24.4	24.5	0	22.4	22.4	22.5	0	17.5	17.2	17.5	0	17.8	17.6	17.8
			1	24	0	24.5	24.4	24.5	0	22.5	22.4	22.5	0	17.2	17.1	17.3	0	17.7	17.5	17.6
			12	0	1	23.4	23.4	23.4	1	21.4	21.4	21.4	0	17.2	17.2	17.3	0	17.6	17.4	17.5
			12	7	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.3	17.2	17.5	0	17.8	17.4	17.8
			12	13	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.3	17.1	17.4	0	17.7	17.3	17.6
		16QAM	25	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	0	17.1	17.1	17.1	0	17.4	17.4	17.4
			1	0	1	23.5	23.5	23.4	1	21.5	21.5	21.4	0	17.3	17.2	17.3	0	17.6	17.5	17.5
			1	12	1	23.3	23.4	23.4	1	21.3	21.4	21.4	0	17.4	17.2	17.3	0	17.7	17.6	17.7
			1	24	1	23.4	23.5	23.5	1	21.4	21.5	21.5	0	17.2	17.0	17.3	0	17.7	17.5	17.6
			12	0	2	22.5	22.4	22.5	2	21.0	20.4	20.5	0	17.2	17.2	17.3	0	17.5	17.4	17.5
			12	7	2	22.4	22.5	22.4	2	20.4	20.5	20.4	0	17.3	17.1	17.4	0	17.6	17.4	17.7
			12	13	2	22.4	22.4	22.4	2	20.4	20.4	20.4	0	17.2	17.2	17.4	0	17.6	17.3	17.5
			25	0	2	22.4	22.5	22.5	2	20.4	20.5	20.5	0	17.3	17.1	17.1	0	17.4	17.3	17.4

LTE Band 26 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz
LTE Band 26	3	QPSK	1	0	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.3	17.2	17.4	0	17.6	17.6	17.6
			1	8	0	24.5	24.5	24.4	0	22.5	22.5	22.4	0	17.5	17.2	17.5	0	17.8	17.6	17.8
			1	14	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.2	17.1	17.3	0	17.7	17.5	17.6
			8	0	1	23.5	23.4	23.4	1	21.5	21.4	21.4	1	17.2	17.2	17.3	0	17.6	17.4	17.5
			8	4	1	23.5	23.5	23.5	1	21.5	21.5	21.5	1	17.3	17.2	17.5	0	17.8	17.4	17.8
			8	7	1	23.5	23.5	23.4	1	21.5	21.5	21.4	1	17.3	17.1	17.4	0	17.7	17.3	17.6
		16QAM	15	0	1	23.4	23.5	23.5	1	21.4	21.5	21.5	1	17.1	17.1	17.1	0	17.4	17.4	17.4
			1	0	1	23.5	23.5	23.4	1	21.5	21.5	21.4	1	17.3	17.2	17.3	0	17.6	17.5	17.5
			1	8	1	23.4	23.5	23.4	1	21.4	21.5	21.4	1	17.4	17.2	17.3	0	17.7	17.6	17.7
			1	14	1	23.5	23.4	23.4	1	21.5	21.4	21.4	1	17.2	17.0	17.3	0	17.7	17.5	17.6
			8	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	2	17.2	17.2	17.3	0	17.5	17.4	17.5
			8	4	2	22.5	22.5	22.4	2	20.5	20.5	20.4	2	17.3	17.1	17.4	0	17.6	17.4	17.7
			8	7	2	22.5	22.5	22.4	2	20.5	20.5	20.4	2	17.2	17.2	17.4	0	17.6	17.3	17.5
			15	0	2	22.5	22.5	22.4	2	20.5	20.5	20.4	2	17.3	17.1	17.1	0	17.4	17.3	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz
LTE Band 26	1.4	QPSK	1	0	0	24.5	24.5	24.5	0	22.5	22.5	22.5	0	17.3	17.2	17.4	0	17.6	17.6	17.6
			1	3	0	24.5	24.5	24.4	0	22.5	22.5	22.5	0	17.5	17.2	17.5	0	17.8	17.6	17.8
			1	5	0	24.5	24.5	24.5	0	22.5	22.5	22.5	0	17.2	17.1	17.3	0	17.7	17.5	17.6
			3	0	0	24.5	24.5	24.4	0	22.5	22.5	22.4	0	17.2	17.2	17.3	0	17.6	17.4	17.5
			3	1	0	24.5	24.4	24.4	0	22.5	22.4	22.4	0	17.3	17.2	17.5	0	17.8	17.4	17.8
			3	3	0	24.4	24.5	24.4	0	22.4	22.5	22.4	0	17.3	17.1	17.4	0	17.7	17.3	17.6
		16QAM	6	0	1	23.5	23.5	23.5	1	21.5	21.5	21.5	1	17.1	17.1	17.1	0	17.4	17.4	17.4
			1	0	1	23.5	23.5	23.6	1	21.5	21.5	21.6	1	17.3	17.2	17.3	0	17.6	17.5	17.5
			1	3	1	23.5	23.5	23.5	1	21.5	21.5	21.5	1	17.4	17.2	17.3	0	17.7	17.6	17.7
			1	5	1	23.4	23.5	23.5	1	21.4	21.5	21.5	1	17.2	17.0	17.3	0	17.7	17.5	17.6
			3	0	1	23.5	23.5	23.4	1	21.5	21.5	21.4	1	17.2	17.2	17.3	0	17.5	17.4	17.5
			3	1	1	23.5	23.5	23.5	1	21.5	21.5	21.5	1	17.3	17.1	17.4	0	17.6	17.4	17.7
			3	3	1	23.5	23.4	23.5	1	21.5	21.4	21.5	1	17.2	17.2	17.4	0	17.6	17.3	17.5
			6	0	2	22.5	22.5	22.5	2	20.5	20.5	20.5	2	17.3	17.1	17.1	0	17.4	17.3	17.4

LTE Band 27 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
							815.5 MHz				815.5 MHz				815.5 MHz				815.5 MHz	
LTE Band 27	10	QPSK	1	0	0		24.9		0		22.5		0		17.0		0		17.5	
			1	24	0		25.0		0		22.5		0		17.0		0		17.5	
			1	49	0		24.9		0		22.4		0		17.0		0		17.3	
			25	0	1		24.0		1		21.6		0		17.0		0		17.5	
			25	12	1		24.0		1		21.6		0		17.0		0		17.5	
			25	24	1		24.0		1		21.6		0		17.0		0		17.4	
			50	0	1		24.0		1		21.5		0		17.0		0		17.5	
		16QAM	1	0	1		23.9		1		21.6		0		17.0		0		17.4	
			1	24	1		23.9		1		21.6		0		17.0		0		17.5	
			1	49	1		24.0		1		21.5		0		17.0		0		17.3	
			25	0	2		23.0		2		20.5		0		17.0		0		17.5	
			25	12	2		23.0		2		20.5		0		17.0		0		17.5	
			25	24	2		23.0		2		20.5		0		17.0		0		17.4	
			50	0	2		23.0		2		20.5		0		17.0		0		17.4	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						809.5 MHz	815.5 MHz	821.5 MHz		809.5 MHz	815.5 MHz	821.5 MHz		809.5 MHz	815.5 MHz	821.5 MHz		809.5 MHz	815.5 MHz	821.5 MHz
LTE Band 27	5	QPSK	1	0	0	25.0	24.9	24.9	0	22.5	22.4	22.4	0	17.0	17.0	17.0	0	17.4	17.5	17.4
			1	12	0	24.9	24.9	25.0	0	22.4	22.4	22.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	24	0	25.0	24.9	25.0	0	22.5	22.4	22.5	0	17.0	17.0	17.0	0	17.3	17.3	17.3
			12	0	1	23.9	23.9	23.9	1	21.4	21.4	21.4	0	17.0	17.0	17.0	0	17.4	17.5	17.5
			12	7	1	24.0	24.0	24.0	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			12	13	1	24.0	24.0	24.0	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			25	0	1	24.0	24.0	24.0	1	21.5	21.5	21.5	0	17.0	17.0	17.0	0	17.4	17.5	17.4
		16QAM	1	0	1	24.0	24.0	23.9	1	21.5	21.5	21.4	0	17.0	17.0	17.0	0	17.4	17.4	17.3
			1	12	1	23.8	23.9	23.9	1	21.3	21.4	21.4	0	17.0	17.0	17.0	0	17.5	17.5	17.5
			1	24	1	23.9	24.0	24.0	1	21.4	21.5	21.5	0	17.0	17.0	17.0	0	17.3	17.3	17.2
			12	0	2	23.0	22.9	23.0	2	20.5	20.4	20.5	0	17.0	17.0	17.0	0	17.4	17.5	17.4
			12	7	2	22.9	23.0	22.9	2	20.4	20.5	20.4	0	17.0	17.0	17.0	0	17.5	17.5	17.5
			12	13	2	22.9	22.9	22.9	2	20.4	20.4	20.4	0	17.0	17.0	17.0	0	17.4	17.4	17.4
			25	0	2	22.9	23.0	23.0	2	20.4	20.5	20.5	0	17.0	17.0	17.0	0	17.4	17.4	17.4

LTE Band 27 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						808.5 MHz	815.5 MHz	822.5 MHz		808.5 MHz	815.5 MHz	822.5 MHz		808.5 MHz	815.5 MHz	822.5 MHz		808.5 MHz	815.5 MHz	822.5 MHz
LTE Band 27	3	QPSK	1	0	0	24.9	25.0	24.9	0	22.4	22.5	22.4	0	17.0	17.0	17.0	0	17.4	17.5	17.4
			1	8	0	25.0	25.0	24.9	0	22.5	22.5	22.4	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	14	0	24.9	25.0	24.9	0	22.4	22.5	22.4	0	17.0	17.0	17.0	0	17.3	17.3	17.3
			8	0	1	24.0	23.9	23.9	1	21.5	21.4	21.4	1	17.0	17.0	17.0	0	17.4	17.5	17.5
			8	4	1	24.0	24.0	24.0	1	21.5	21.5	21.5	1	17.0	17.0	17.0	0	17.5	17.5	17.4
			8	7	1	24.0	24.0	23.9	1	21.5	21.5	21.4	1	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	15	0	1	23.9	24.0	24.0	1	21.4	21.5	21.5	1	17.0	17.0	17.0	0	17.4	17.5	17.4
			1	0	1	24.0	24.0	23.9	1	21.5	21.5	21.4	1	17.0	17.0	17.0	0	17.4	17.4	17.3
			1	8	1	23.9	24.0	23.9	1	21.4	21.5	21.4	1	17.0	17.0	17.0	0	17.5	17.5	17.5
			1	14	1	24.0	23.9	23.9	1	21.5	21.4	21.4	1	17.0	17.0	17.0	0	17.3	17.3	17.2
			8	0	2	23.0	23.0	23.0	2	20.5	20.5	20.5	2	17.0	17.0	17.0	0	17.4	17.5	17.4
			8	4	2	23.0	23.0	22.9	2	20.5	20.5	20.4	2	17.0	17.0	17.0	0	17.5	17.5	17.5
			8	7	2	23.0	23.0	22.9	2	20.5	20.5	20.4	2	17.0	17.0	17.0	0	17.4	17.4	17.4
			15	0	2	23.0	23.0	22.9	2	20.5	20.5	20.4	2	17.0	17.0	17.0	0	17.4	17.4	17.4
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						807.7 MHz	815.5 MHz	823.3 MHz		807.7 MHz	815.5 MHz	823.3 MHz		807.7 MHz	815.5 MHz	823.3 MHz		807.7 MHz	815.5 MHz	823.3 MHz
LTE Band 27	1.4	QPSK	1	0	0	25.0	25.0	25.0	0	22.5	22.5	22.5	0	17.0	17.0	17.0	0	17.4	17.5	17.4
			1	3	0	25.0	25.0	25.0	0	22.5	22.5	22.5	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			1	5	0	25.0	25.0	25.0	0	22.5	22.5	22.5	0	17.0	17.0	17.0	0	17.3	17.3	17.3
			3	0	0	25.0	25.0	24.9	0	22.5	22.5	22.4	0	17.0	17.0	17.0	0	17.4	17.5	17.5
			3	1	0	25.0	24.9	24.9	0	22.5	22.4	22.4	0	17.0	17.0	17.0	0	17.5	17.5	17.4
			3	3	0	24.9	25.0	24.9	0	22.4	22.5	22.4	0	17.0	17.0	17.0	0	17.4	17.4	17.4
		16QAM	6	0	1	24.0	24.0	24.0	1	21.5	21.5	21.5	1	17.0	17.0	17.0	0	17.4	17.5	17.4
			1	0	1	24.0	24.0	24.1	1	21.5	21.5	21.6	1	17.0	17.0	17.0	0	17.4	17.4	17.3
			1	3	1	24.0	24.0	24.0	1	21.5	21.5	21.5	1	17.0	17.0	17.0	0	17.5	17.5	17.5
			1	5	1	23.9	24.0	24.0	1	21.4	21.5	21.5	1	17.0	17.0	17.0	0	17.3	17.3	17.2
			3	0	1	24.0	24.0	23.9	1	21.5	21.5	21.4	1	17.0	17.0	17.0	0	17.4	17.5	17.4
			3	1	1	24.0	24.0	24.0	1	21.5	21.5	21.5	1	17.0	17.0	17.0	0	17.5	17.5	17.5
			3	3	1	24.0	23.9	24.0	1	21.5	21.4	21.5	1	17.0	17.0	17.0	0	17.4	17.4	17.4
			6	0	2	23.0	23.0	23.0	2	20.5	20.5	20.5	2	17.0	17.0	17.0	0	17.4	17.4	17.4

LTE Band 30 Average Power (dBm) Measured Results

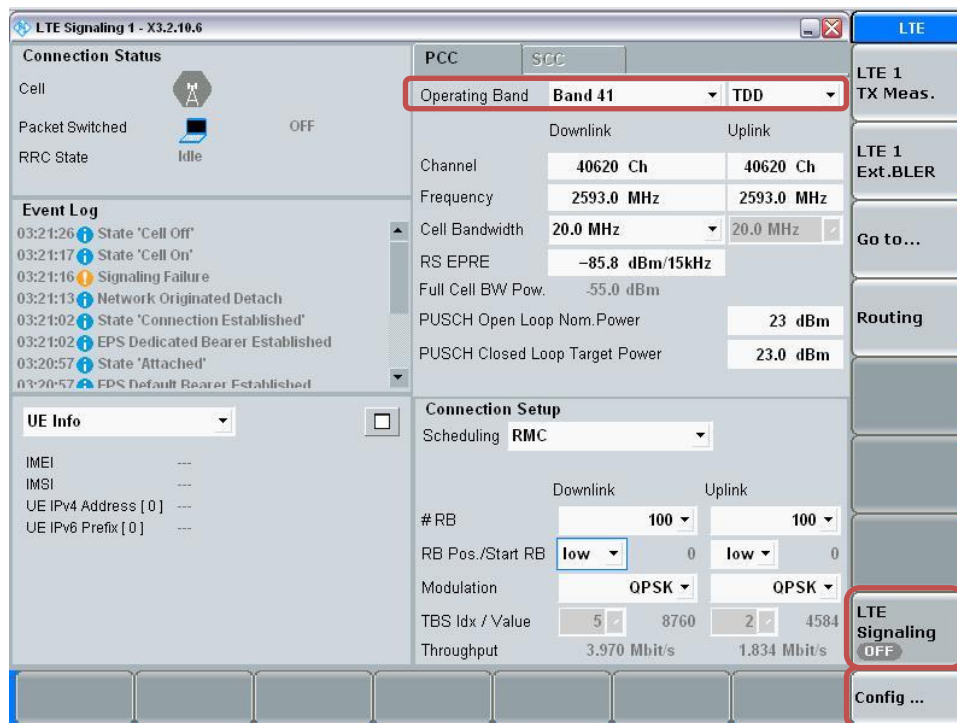
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
							2310 MHz				2310 MHz				2310 MHz				2310 MHz	
LTE Band 30	10	QPSK	1	0	0		22.3		0		21.0		0		12.6		0		12.4	
			1	24	0		22.3		0		21.0		0		12.8		0		12.5	
			1	49	0		22.3		0		21.0		0		12.7		0		12.3	
			25	0	1		21.2		1		19.9		0		12.7		0		12.4	
			25	12	1		21.3		1		19.9		0		12.7		0		12.4	
			25	24	1		21.3		1		20.0		0		12.6		0		12.4	
			50	0	1		21.3		1		20.0		0		12.7		0		12.5	
		16QAM	1	0	1		21.3		1		20.0		0		12.5		0		12.3	
			1	24	1		21.3		1		20.0		0		12.8		0		12.5	
			1	49	1		21.3		1		19.9		0		12.6		0		12.4	
			25	0	2		20.2		2		18.9		0		12.7		0		12.4	
			25	12	2		20.3		2		19.0		0		12.7		0		12.4	
			25	24	2		20.3		2		18.9		0		12.6		0		12.3	
			50	0	2		20.2		2		18.9		0		12.6		0		12.4	
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C			Target MPR	Emission Power Antenna D			Target MPR	Body Power Antenna C			Target MPR	Body Power Antenna D		
						2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz		2307.5 MHz	2310 MHz	2312.5 MHz
LTE Band 30	5	QPSK	1	0	0	22.3	22.3	22.2	0	21.0	21.0	20.9	0	12.6	12.6	12.5	0	12.3	12.4	12.4
			1	12	0	22.2	22.2	22.3	0	21.0	20.9	21.0	0	12.8	12.8	12.4	0	12.5	12.5	12.5
			1	24	0	22.3	22.3	22.2	0	21.0	21.0	20.9	0	12.7	12.7	12.7	0	12.4	12.3	12.4
			12	0	1	21.3	21.2	21.2	1	19.9	19.9	19.9	0	12.6	12.7	12.7	0	12.4	12.4	12.3
			12	7	1	21.2	21.2	21.2	1	19.9	19.9	19.9	0	12.7	12.7	12.6	0	12.3	12.4	12.4
			12	13	1	21.2	21.2	21.1	1	20.0	19.9	19.8	0	12.5	12.6	12.5	0	12.4	12.4	12.3
			25	0	1	21.1	21.2	21.1	1	20.0	19.9	19.8	0	12.6	12.7	12.6	0	12.4	12.5	12.5
		16QAM	1	0	1	21.4	21.3	21.3	1	20.0	20.0	20.0	0	12.6	12.5	12.5	0	12.3	12.4	12.4
			1	12	1	21.4	21.3	21.3	1	20.0	20.0	20.0	0	12.8	12.8	12.4	0	12.5	12.5	12.5
			1	24	1	21.4	21.3	21.3	1	19.9	20.0	20.0	0	12.7	12.6	12.7	0	12.4	12.3	12.4
			12	0	2	20.2	20.1	20.2	2	18.9	18.8	18.9	0	12.6	12.7	12.7	0	12.4	12.4	12.3
			12	7	2	20.3	20.2	20.2	2	19.0	18.9	18.9	0	12.7	12.7	12.6	0	12.3	12.4	12.4
			12	13	2	20.3	20.3	20.2	2	18.9	19.0	18.9	0	12.5	12.6	12.5	0	12.4	12.4	12.3
			25	0	2	20.2	20.2	20.1	2	18.9	18.9	18.8	0	12.6	12.6	12.6	0	12.4	12.5	12.5

LTE Band 41 Average Power (dBm) Measured Results

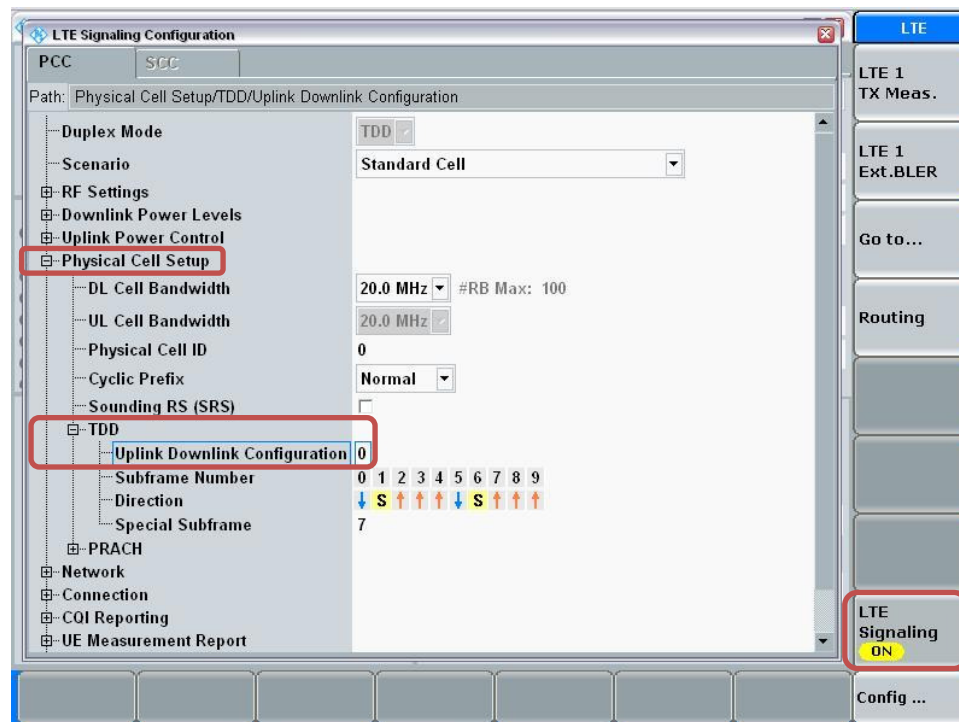
Procedure used to establish SAR test signal for LTE TDD Band 41

Set to CMW-500 with following parameters:

- Turn the LTE Signaling off using "ON | OFF" key
- Operating Band: Select Band 41 and TDD
- Go to "Config...."

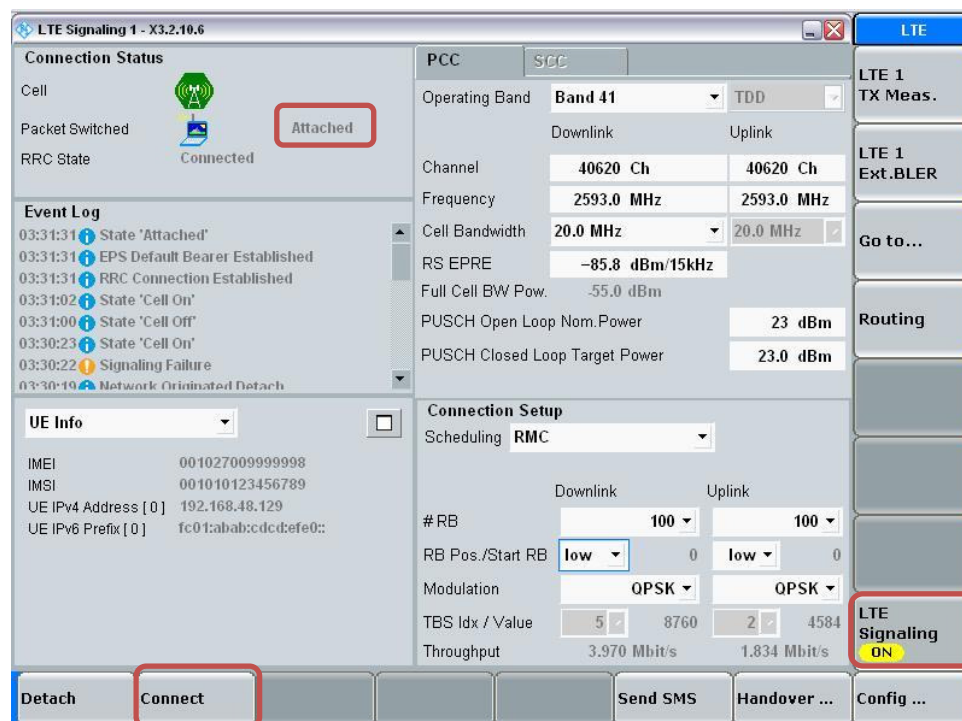


- Go to “Physical Cell Setup”
- Select “TDD” and Set “Uplink Downlink Configuration” to “0”
- Turn the cell on using “ON | OFF” key



Connect to EUT

- Turn the cell on using “ON | OFF” key
- After EUT is Attached
- Select “Connect”



Max Power Setting

- Select "LTE 1 TX Meas."
- Press "RESTART | STOP" Soft key

LTE Signaling 1 - X3.2.10.6

Connection Status

Cell: Connection Established

Packet Switched: Connection Established

RRC State: Connected

Event Log

03:33:07 [i] State 'Connection Established'

03:33:07 [i] EPS Dedicated Bearer Established

03:31:31 [i] State 'Attached'

03:31:31 [i] EPS Default Bearer Established

03:31:31 [i] RRC Connection Established

03:31:02 [i] State 'Cell On'

03:31:00 [i] State 'Cell Off'

03:30:23 [i] State 'Cell On'

UE Info

IMEI: 001027009999998

IMSI: 001010123456789

UE IPv4 Address [0]: 192.168.48.129

UE IPv6 Prefix [0]: fc01:abab:cddc:efe0::

Connection Setup

Scheduling: RMC

Downlink

Operating Band: Band 41

Channel: 40620 Ch

Frequency: 2593.0 MHz

Cell Bandwidth: 20.0 MHz

RS EPRE: -85.8 dBm/15kHz

Full Cell BW Pow.: -55.0 dBm

PUSCH Open Loop Nom.Power: 23 dBm

PUSCH Closed Loop Target Power: 23.0 dBm

Uplink

Channel: 40620 Ch

Frequency: 2593.0 MHz

Cell Bandwidth: 20.0 MHz

RS EPRE: -85.8 dBm/15kHz

Full Cell BW Pow.: -55.0 dBm

PUSCH Open Loop Nom.Power: 23 dBm

PUSCH Closed Loop Target Power: 23.0 dBm

Throughput

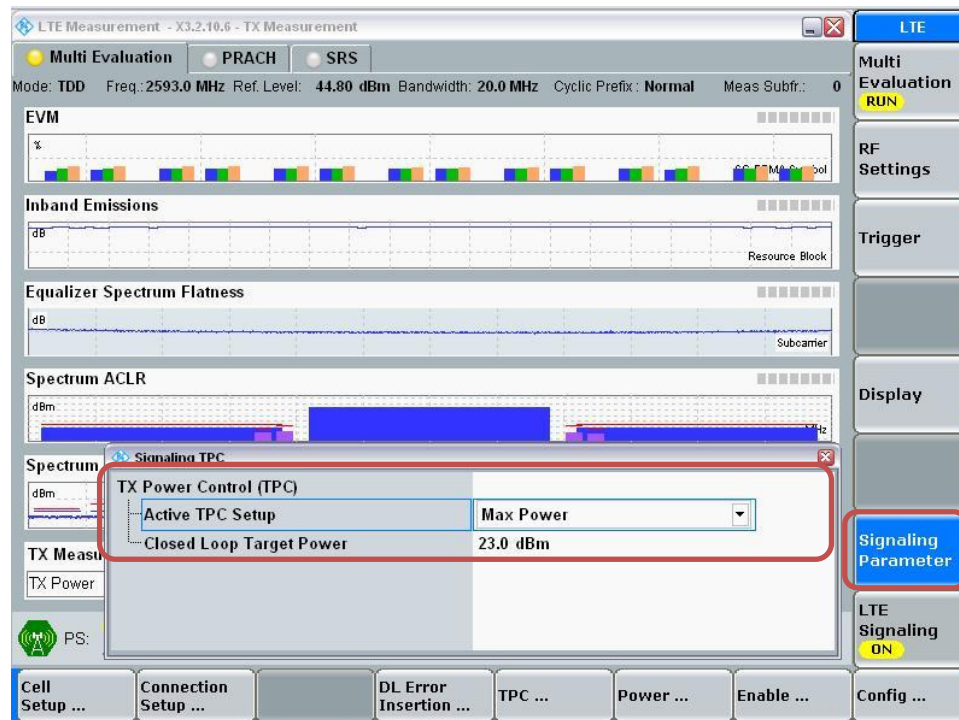
Downlink: 3.970 Mbit/s

Uplink: 1.834 Mbit/s

Buttons: Detach, Disconnect, Send SMS, Handover ..., Config ...

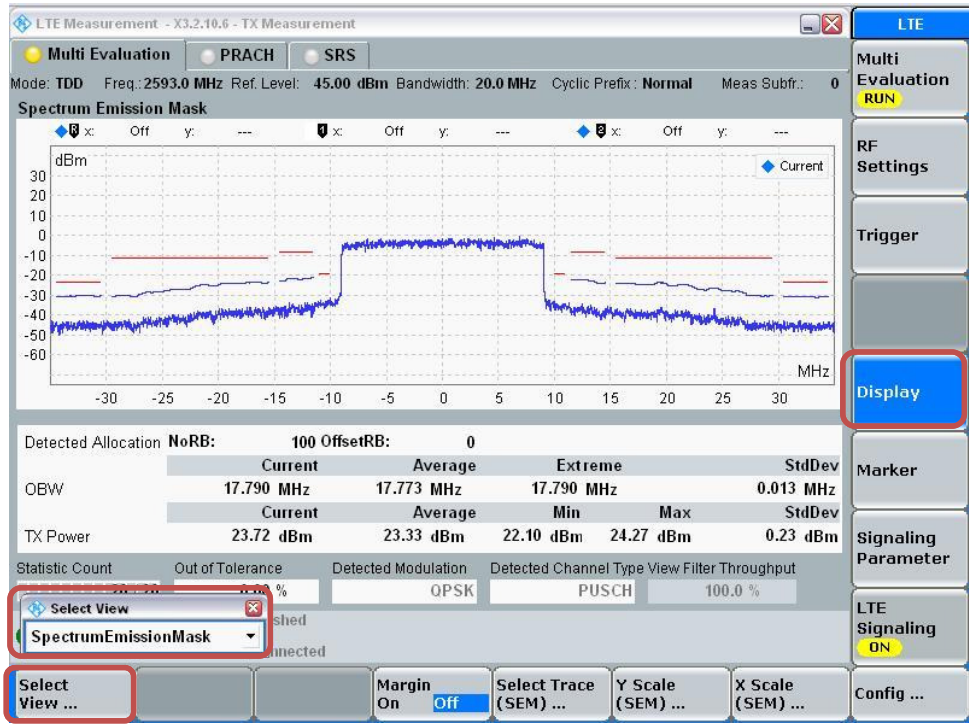
Right Panel: LTE, LTE 1 TX Meas., LTE 1 Ext.BLER, Go to..., Routing, LTE Signaling ON

- Select “Signaling Parameter”
- Select “TX Power Control (TPC)” > Select “Active TPC Setup” to “Max Power” > Set “Closed Loop Target Power” to “23 dBm”



View TX Power

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



LTE Band 41 Average Power (dBm) Measured Results

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C					Target MPR	Emission Power Antenna D					Target MPR	Body Power Antenna C					Target MPR	Body Power Antenna D				
						2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
LTE Band 41	20	QPSK	1	0	0	22.9	22.9	23.0	23.0	22.9	0	21.4	21.3	21.5	21.4	21.4	0	14.4	14.5	14.5	14.3	14.3	0	13.8	13.9	13.9	13.9	13.7
			1	49	0	22.9	22.9	22.9	22.8	22.9	0	21.4	21.4	21.4	21.5	21.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	99	0	22.9	23.0	23.0	22.9	22.9	0	21.4	21.3	21.5	21.4	21.4	0	14.4	14.4	14.4	14.4	14.4	0	13.9	13.8	14.0	13.8	13.8
			50	0	1	22.0	22.0	22.0	22.0	22.0	1	20.5	20.4	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			50	24	1	22.0	22.0	22.0	22.0	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			50	49	1	22.0	21.9	22.0	22.0	22.0	1	20.5	20.4	20.5	20.4	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
		16QAM	100	0	1	22.1	22.0	22.0	22.0	22.0	1	20.6	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	13.9	13.9	13.9	13.9	13.9
			1	0	1	22.1	22.0	22.0	21.8	22.0	1	20.6	20.4	20.5	20.4	20.5	0	14.4	14.5	14.4	14.3	14.4	0	13.8	13.8	13.9	13.8	13.7
			1	49	1	22.0	22.0	22.0	21.9	22.0	1	20.5	20.4	20.5	20.4	20.5	0	14.4	14.4	14.5	14.4	14.4	0	13.9	13.9	13.9	13.9	13.8
			1	99	1	22.1	22.0	22.0	22.0	22.1	1	20.6	20.4	20.5	20.5	20.6	0	14.3	14.3	14.5	14.4	14.4	0	13.9	13.7	14.0	13.7	13.8
			50	0	2	21.0	21.0	21.0	21.0	21.1	2	19.5	19.5	19.5	19.5	19.6	0	14.4	14.4	14.4	14.5	14.4	0	13.9	14.0	14.0	14.0	13.9
			50	24	2	21.0	20.9	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	13.9	13.9	14.0	14.0
			50	49	2	21.0	21.0	21.0	20.9	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.4	14.5	14.4	14.4	14.4	0	14.0	13.9	14.0	13.9	14.0
			100	0	2	21.0	21.0	21.1	21.0	21.0	2	19.5	19.5	19.6	19.5	19.5	0	14.5	14.5	14.5	14.4	14.4	0	14.0	13.9	14.0	14.0	13.8
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C					Target MPR	Emission Power Antenna D					Target MPR	Body Power Antenna C					Target MPR	Body Power Antenna D				
LTE Band 41	15	QPSK	1	0	0	23.0	23.0	22.9	23.0	23.0	0	21.5	21.4	21.4	21.4	21.5	0	14.4	14.5	14.5	14.3	14.3	0	13.8	13.9	13.9	13.9	13.7
			1	36	0	22.9	23.0	22.9	22.8	22.9	0	21.4	21.4	21.4	21.5	21.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	74	0	22.9	22.9	22.9	22.9	22.9	0	21.4	21.4	21.4	21.5	21.4	0	14.4	14.4	14.4	14.4	14.4	0	13.9	13.8	14.0	13.8	13.8
			36	0	1	22.0	22.0	22.0	21.9	22.0	1	20.5	20.4	20.5	20.4	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			36	18	1	22.0	22.0	22.0	21.9	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			36	37	1	22.0	22.0	22.0	22.0	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
		16QAM	75	0	1	22.0	21.9	22.0	22.0	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	0	1	22.0	21.8	22.0	22.0	22.1	1	20.5	20.4	20.5	20.5	20.6	0	14.4	14.5	14.4	14.3	14.4	0	13.8	13.8	13.9	13.8	13.7
			1	36	1	22.1	21.9	22.0	21.9	22.1	1	20.6	20.5	20.5	20.5	20.6	0	14.4	14.4	14.5	14.4	14.4	0	13.9	13.9	13.9	13.9	13.8
			1	74	1	22.1	22.0	22.0	21.8	22.0	1	20.6	20.5	20.5	20.5	20.5	0	14.3	14.3	14.5	14.4	14.4	0	13.9	13.7	14.0	13.7	13.8
			36	0	2	21.0	20.9	21.0	20.9	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.4	14.4	14.4	14.5	14.4	0	13.9	14.0	14.0	14.0	13.9
			36	18	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	13.9	13.9	14.0	14.0
			36	37	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.4	14.5	14.4	14.4	14.4	0	14.0	13.9	14.0	13.9	14.0
			75	0	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.4	14.4	0	14.0	13.9	14.0	14.0	13.8
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C					Target MPR	Emission Power Antenna D					Target MPR	Body Power Antenna C					Target MPR	Body Power Antenna D				
LTE Band 41	10	QPSK	1	0	0	23.0	22.9	22.9	22.8	23.0	0	21.5	21.4	21.4	21.4	21.5	0	14.4	14.5	14.5	14.3	14.3	0	13.8	13.9	13.9	13.9	13.7
			1	24	0	22.9	22.8	22.9	22.9	22.9	0	21.4	21.4	21.4	21.4	21.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	49	0	22.9	22.8	22.9	22.9	22.9	0	21.4	21.4	21.4	21.4	21.4	0	14.4	14.4	14.4	14.4	14.4	0	13.9	13.8	14.0	13.8	13.8
			25	0	1	22.0	22.0	22.0	21.9	22.0	1	20.5	20.4	20.5	20.4	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			25	12	1	22.0	21.8	22.0	22.0	22.0	1	20.5	20.5	20.5	20.4	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			25	24	1	22.0	21.9	22.0	22.0	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
		16QAM	50	0	1	22.0	22.0	22.0	22.0	22.0	1	20.5	20.5	20.5	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	0	1	22.0	21.9	22.0	22.0	22.0	1	20.5	20.4	20.5	20.4	20.5	0	14.4	14.5	14.4	14.3	14.4	0	13.8	13.8	13.9	13.8	13.7
			1	24	1	22.0	22.0	22.0	22.0	22.0	1	20.5	20.4	20.5	20.5	20.5	0	14.4	14.4	14.5	14.4	14.4	0	13.9	13.9	13.9	13.9	13.8
			1	49	1	22.0	22.0	22.0	21.9	22.0	1	20.5	20.4	20.5	20.5	20.5	0	14.3	14.3	14.5	14.4	14.4	0	13.9	13.7	14.0	13.7	13.8
			25	0	2	21.0	21.0	21.0	20.9	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.4	14.4	14.4	14.5	14.4	0	13.9	14.0	14.0	14.0	13.9
			25	12	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	13.9	13.9	14.0	14.0
			25	24	2	21.1	21.0	21.0	21.0	21.0	2	19.6	19.5	19.5	19.5	19.5	0	14.4	14.5	14.4	14.4	14.4	0	14.0	13.9	14.0	13.9	14.0
			50	0	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.4	14.4	0	14.0	13.9	14.0	14.0	13.8

LTE Band 41 Average Power (dBm) Measured Results (continued)

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Emission Power Antenna C					Target MPR	Emission Power Antenna D					Target MPR	Body Power Antenna C					Target MPR	Body Power Antenna D				
						2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506.0 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
LTE Band 41	5	QPSK	1	0	0	23.0	22.8	22.9	22.9	23.0	0	21.5	21.4	21.4	21.5	21.5	0	14.4	14.5	14.5	14.3	14.3	0	13.8	13.9	13.9	13.9	13.7
			1	12	0	22.9	23.0	23.0	23.0	22.9	0	21.4	21.5	21.5	21.5	21.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	24	0	22.9	22.9	22.9	23.0	23.0	0	21.4	21.5	21.4	21.4	21.5	0	14.4	14.4	14.4	14.4	14.4	0	13.9	13.8	14.0	13.8	13.8
			12	0	1	21.9	21.9	21.9	21.8	22.0	1	20.4	20.5	20.4	20.4	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			12	7	1	21.9	21.8	21.9	21.9	21.9	1	20.4	20.5	20.4	20.4	20.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			12	13	1	21.9	21.9	22.0	21.9	21.9	1	20.4	20.4	20.5	20.4	20.4	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
		16QAM	25	0	1	22.0	22.0	22.1	22.0	22.0	1	20.5	20.5	20.6	20.5	20.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	14.0	14.0	14.0	14.0
			1	0	1	22.1	22.0	22.1	21.9	22.0	1	20.6	20.4	20.6	20.5	20.5	0	14.4	14.5	14.4	14.3	14.4	0	13.8	13.8	13.9	13.8	13.7
			1	12	1	22.1	22.0	22.1	21.9	22.0	1	20.6	20.4	20.6	20.5	20.5	0	14.4	14.4	14.5	14.4	14.4	0	13.9	13.9	13.9	13.9	13.8
			1	24	1	22.1	21.9	22.0	21.8	22.0	1	20.6	20.4	20.5	20.5	20.5	0	14.3	14.3	14.5	14.4	14.4	0	13.9	13.7	14.0	13.7	13.8
			12	0	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.4	19.5	19.4	19.5	0	14.4	14.4	14.4	14.5	14.4	0	13.9	14.0	14.0	14.0	13.9
			12	7	2	21.0	21.0	21.1	21.0	21.0	2	19.5	19.5	19.6	19.5	19.5	0	14.5	14.5	14.5	14.5	14.5	0	14.0	13.9	13.9	14.0	14.0
			12	13	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.4	14.5	14.4	14.4	14.4	0	14.0	13.9	14.0	13.9	14.0
			25	0	2	21.0	21.0	21.0	21.0	21.0	2	19.5	19.5	19.5	19.5	19.5	0	14.5	14.5	14.5	14.4	14.4	0	14.0	13.9	14.0	14.0	13.8

LTE Rel. 10 Carrier Aggregation

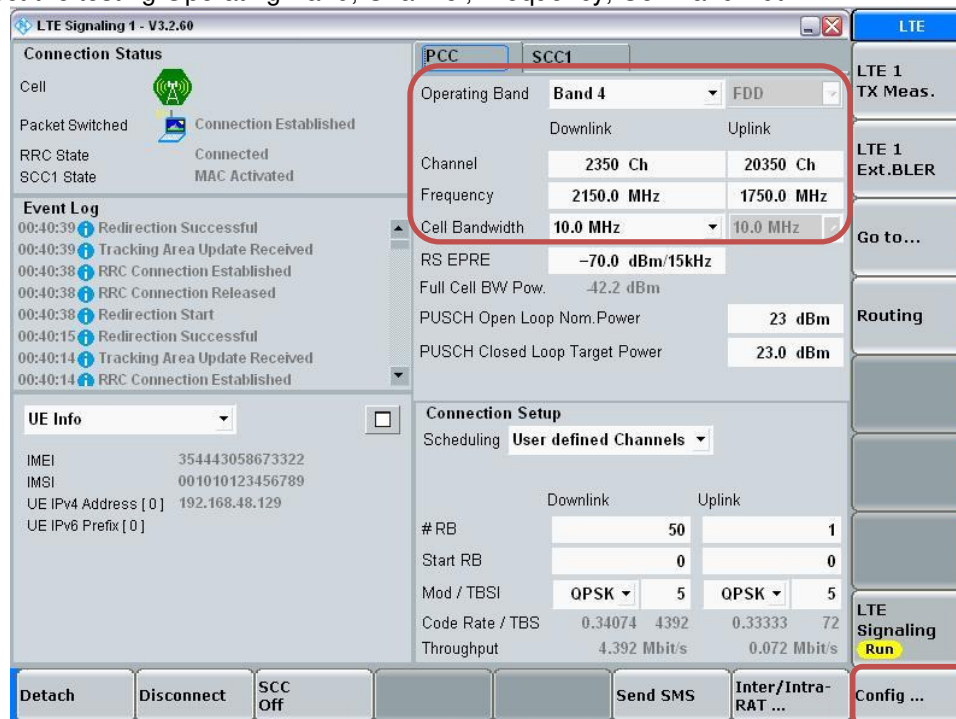
LTE Rel. 10 Carrier Aggregation

LTE Carrier Aggregation Test Signal Set-up Procedure

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

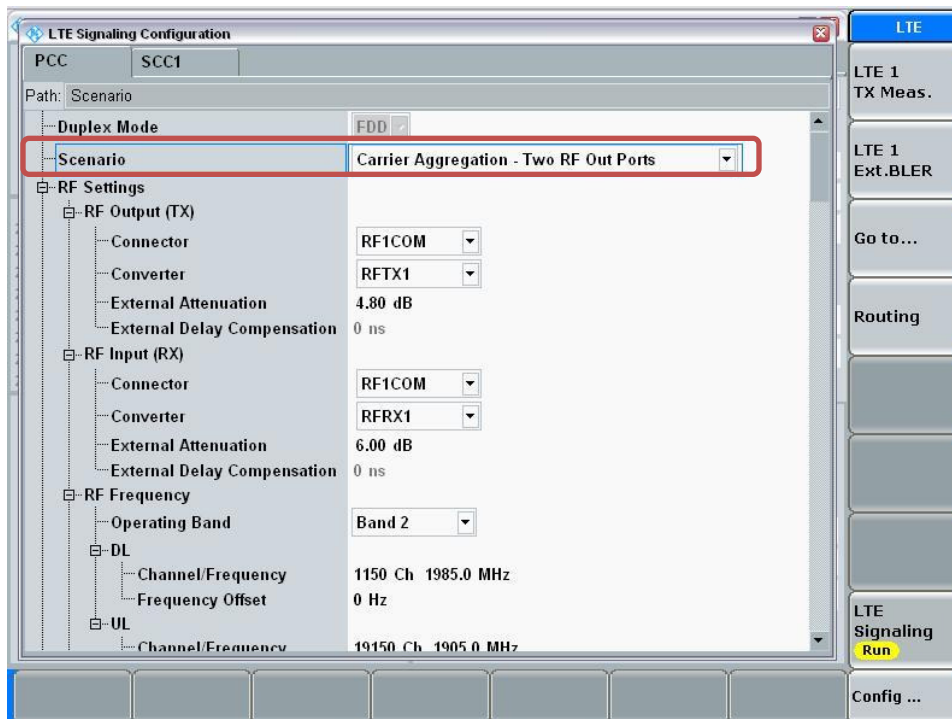
Set to CMW-500 with following parameters:

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

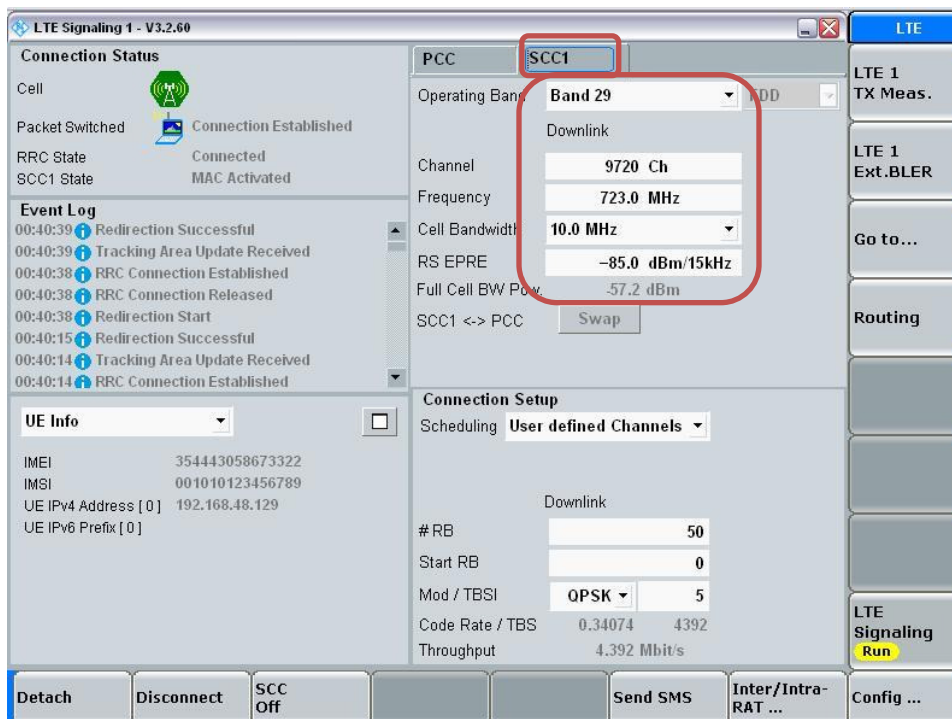


- Go to "Config...."

- Go to "Scenario"
- Select "Carrier Aggregation" and Set to "Carrier Aggregation – Two RF Out Ports"
- Select "LTE Signaling" button

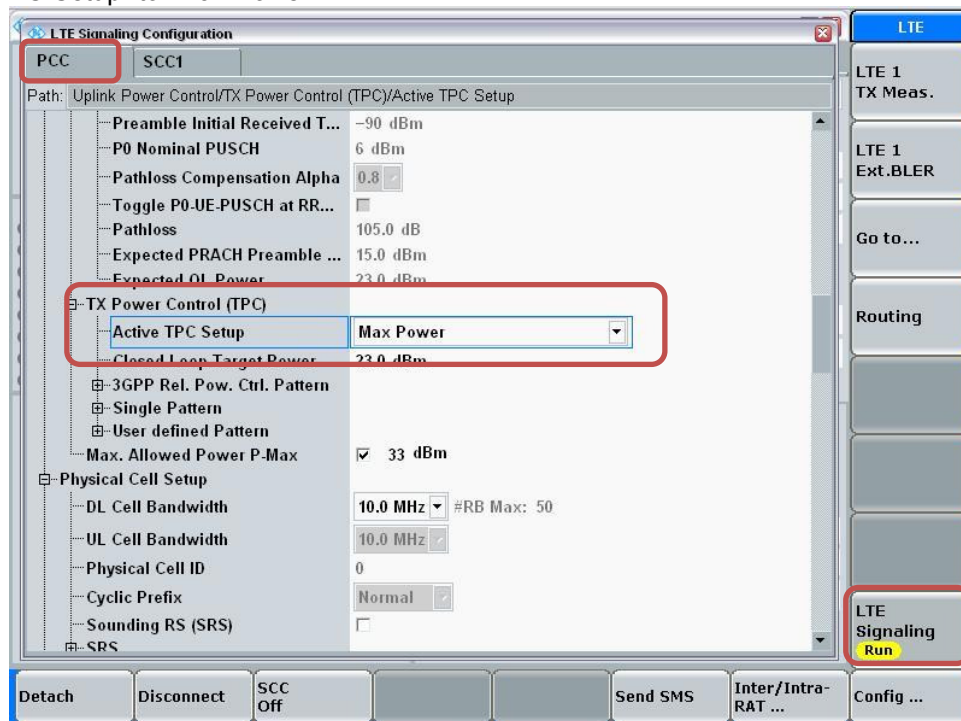


- Select "SCC1" tab
 - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth

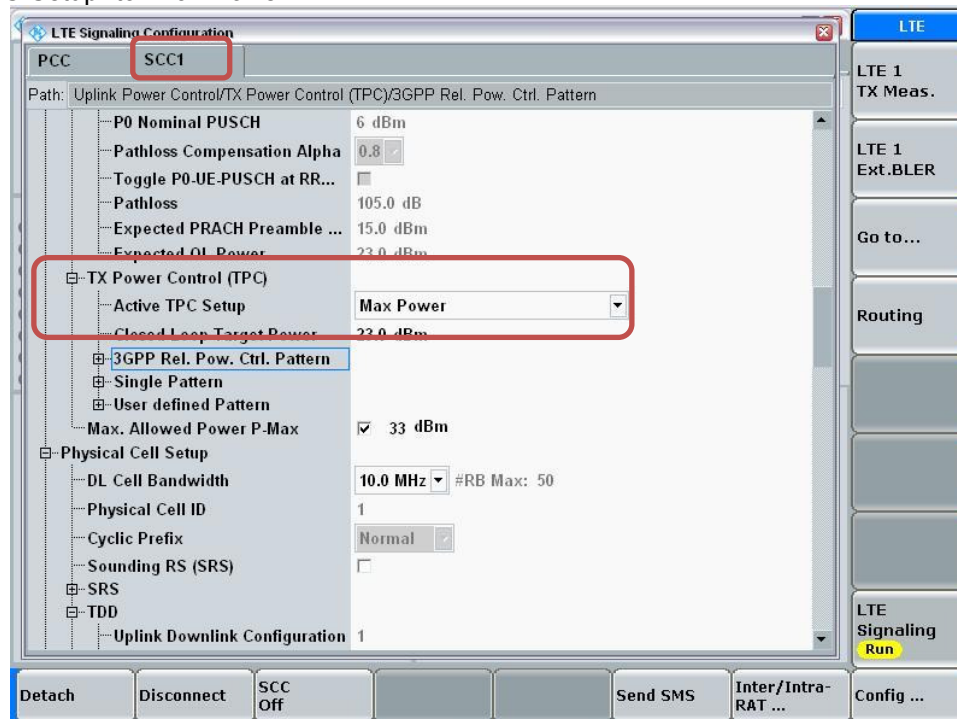


Max Power Setting

- Select “LTE Signaling” button
- Select PCC tab
- Set “Active TPC Setup” to “Max Power”



- Select SCC1 tab
- Set “Active TPC Setup” to “Max Power”



View TX Power

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



The device supports LTE Advanced Rel-10, Cat 6 and Carrier Aggregation (CA) on downlink only for Inter band. Uplink CA is not supported. Supported bands and bandwidths are provided in Tables 1 and 2.

Table 1

Inter-Band E-UTRA Carrier Aggregation Configurations							
Configuration	Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
CA_2A-4A(0)	2	Yes	Yes	Yes	Yes	Yes	Yes
	4			Yes	Yes	Yes	Yes
CA_2A-5A(0)	2			Yes	Yes	Yes	Yes
	5			Yes	Yes		
CA_2A-12A(1)	2			Yes	Yes	Yes	Yes
	12		Yes	Yes	Yes		
CA_2A-13A(0)	2			Yes	Yes	Yes	Yes
	13				Yes		
CA_2A-17A(0)	2			Yes	Yes		
	17			Yes	Yes		
CA_2A-29A(0)	2			Yes	Yes		
	29		Yes	Yes	Yes		
CA_2A-29A(1)	2			Yes	Yes		
	29			Yes	Yes		
CA_2A-29A(2)	2			Yes	Yes	Yes	Yes
	29			Yes	Yes		
CA_4A-5A(1)	4			Yes	Yes	Yes	Yes
	5			Yes	Yes		
CA_4A-7A(0)	4			Yes	Yes		
	7			Yes	Yes	Yes	Yes
CA_4A-12A(1)	4	Yes	Yes	Yes	Yes	Yes	Yes
	12			Yes	Yes		
CA_4A-13A(0)	4			Yes	Yes	Yes	Yes
	13				Yes		
CA_4A-17A(0)	4			Yes	Yes		
	17			Yes	Yes		
CA_4A-29A(0)	4			Yes	Yes		
	29		Yes	Yes	Yes		
CA_12A-30A(0)	12			Yes	Yes		
	30			Yes	Yes		

Table 6 provides the results for the combinations selected for measurement from Table 1. For all PCCs, UL power measurements were made for all supported DL bandwidths on the channel/RB combination resulting in the highest output power. For Band 2, UL power measurements were made for all PCC/SCC combinations. For the remaining PCC bands, UL power measurements were made for only one PCC/SCC combination. . The exception is PCC Band 5. The FCC requested measurements for the Band 5/4 PCC/SCC combination.

For each LTE band, the maximum UL output power is capped in the cellular power table for all channel/bandwidth/RB combinations. Variations in output power measurements for a given band are dependent only upon bandwidth, resource block allocations, and measurement tolerances. Therefore, per KDB Publication 941225 D05A, Footnote 2, and the maximum UL power with CA active is measured using the highest maximum output power configuration for uplink with downlink carrier aggregation inactive measured among the channel bandwidth, modulation and RB combinations in each frequency band.

Table 2

Intra-Band Non-Contiguous E-UTRA CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]
CA_2A-2A(0)	5, 10, 15, 20	5, 10, 15, 20
CA_4A-4A(0)	5, 10, 15, 20	5, 10, 15, 20
CA_7A-7A(0)	5	15
	10	10, 15
	15	15, 20
	20	20
CA_25A-25A(1)	5, 10, 15, 20	5, 10, 15, 20
Intra-Band Contiguous E-UTRA CA configurations	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]
CA_7C(0)	10	20
	15	15, 20
	20	10, 15, 20
CA_41C(1)	5, 10	20
	15	15, 20
	20	5, 10, 15, 20

For intra-band CA, UL power measurements were made for each PCC/SCC combination with the widest bandwidth at the highest power level.

The high, middle, and low channels and frequencies for all inter-band and non-contiguous intra-band LTE Bands are provided in Table 3. Contiguous intra-band channels are provided in Tables 4 and 5.

Table 3

LTE Band 2	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	1940	700	1960	900	1980	1099	1860	18700	1880	18900	1900	19099
15	1937.5	675	1960	900	1982.5	1124	1857.5	18675	1880	18900	1902.5	19124
10	1935	650	1960	900	1985	1149	1855	18650	1880	18900	1905	19149
5	1932.5	625	1960	900	1987.5	1174	1852.5	18625	1880	18900	1907.5	19174
3	1931.5	615	1960	900	1988.5	1184	1851.5	18615	1880	18900	1908.5	19184
1.4	1930.7	607	1960	900	1989.3	1192	1850.7	18607	1880	18900	1909.3	19192
LTE Band 4	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	2120	2050	2132.5	2175	2145	2299	1720	20050	1732.5	20175	1745	20299
15	2117.5	2025	2132.5	2175	2147.5	2324	1717.5	20025	1732.5	20175	1747.5	20324
10	2115	2000	2132.5	2175	2150	2349	1715	20000	1732.5	20175	1750	20349
5	2112.5	1975	2132.5	2175	2152.5	2374	1712.5	19975	1732.5	20175	1752.5	20374
3	2111.5	1965	2132.5	2175	2153.5	2384	1711.5	19965	1732.5	20175	1753.5	20384
1.4	2110.7	1957	2132.5	2175	2154.3	2392	1710.7	19957	1732.5	20175	1754.3	20392
LTE Band 5	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	874	2450	881.5	2525	889	2599	829	20450	836.5	20525	844	20599
5	871.5	2425	881.5	2525	891.5	2624	826.5	20425	836.5	20525	846.5	20624
LTE Band 7	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
20	2630	2850	2655	3100	2680	3349	2510	20850	2535	21100	2560	21349
15	2627.5	2825	2655	3100	2682.5	3374	2507.5	20825	2535	21100	2562.5	21374
10	2625	2800	2655	3100	2685	3399	2505	20800	2535	21100	2565	21399
5	2622.5	2775	2655	3100	2687.5	3424	2502.5	20775	2535	21100	2567.5	21424
LTE Band 12	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	734	5060	737.5	5095	741	5129	704	23060	707.5	23095	711	23129
5	731.5	5035	737.5	5095	743.5	5154	701.5	23035	707.5	23095	713.5	23154
3	730.5	5025	737.5	5095	744.5	5164	700.5	23025	707.5	23095	714.5	23164
LTE Band 13	DL Channel / Frequency						UL Channel / Frequency					

Bandwidth	Low		Mid		High		Low		Mid		High	
10	751	5230	751	5230	751	5230	782	23230	782	23230	782	23230
LTE Band 17	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	739	5780	740	5790	741	5799	709	23780	710	23790	711	23799
5	736.5	5755	740	5790	743.5	5824	706.5	23755	710	23790	713.5	23824
LTE Band 30	DL Channel / Frequency						UL Channel / Frequency					
Bandwidth	Low		Mid		High		Low		Mid		High	
10	2355	9820	2355	9820	2355	9820	2310	27710	2310	27710	2310	27710
5	2352.5	9795	2355	9820	2357.5	9844	2307.5	27685	2310	27710	2312.5	27734
LTE Band 41 (FCC)	DL & UL Channel / Frequency											
Bandwidth	Low		Low-Mid		Mid		Mid-High		High			
20	2506	39750	2549.5	40185	2593	40620	2636.5	41055	2680	41490		
15	2503.5	39725	2548.3	40173	2593	40620	2547.8	41068	2682.5	41515		
10	2501	39700	2547.0	40160	2593	40620	2639	41080	2685	41540		
5	2498.5	39675	2545.8	40148	2593	40620	2640.3	41093	2687.5	41565		

Table 4

Band 41 Contiguous Channel and Frequency Combinations												
PCC Bandwidth	5					10						
	Low	Low-Mid	Mid	Mid-High	High	Low	Low-Mid	Mid	Mid-High	High		
PCC Frequency	2498.5	2545.8	2593	2640.3	2687.5	2501	2547	2593	2639	2685		
SCC Bandwidth	20	20	20	20	20	20	20	20	20	20		
SCC Frequency	2512.75		2610.25		2673.25	2515.5		2610.25		2670.5		
SCC Frequency								2575.75				
PCC Bandwidth	15											
	Low		Low-Mid		Mid		Mid-High		High			
PCC Frequency	2503.5		2548.3		2593		2547.8		2682.5			
SCC Bandwidth	15	20	15	20	15	20	15	20	15	20		
SCC Frequency	2518.5	2520.75			2608	2610.25			2667.75	2665		
SCC Frequency					2578	2575.5						
PCC Bandwidth	20											
	Low				Low-Mid				Mid			
PCC Frequency	2506				2549.5				2593			
SCC Bandwidth	5	10	15	20	5	10	15	20	5	10	15	20
SCC Frequency	2510	2520.5	2523.25	2526					2610.25	2607.5	2610.25	2613
SCC Frequency									2575.75	2578.5	2575.75	2573
PCC Bandwidth	20											
	Mid-High				High							
PCC Frequency	2636.5				2680							
SCC Bandwidth	5	10	15	20	5	10	15	20				
SCC Frequency					2675.75	2665.5	2662.75	2660				
SCC Frequency												

Table 5

Band 7 Contiguous Channel and Frequency Combinations									
PCC Bandwidth	10			15					
	Low	Mid	High	Low		Mid		High	
PCC Frequency	2625	2655	2685	2627.5		2655		2682.5	
SCC Bandwidth	20	20	20	15	20	15	20	15	20
SCC Frequency	2639.5	2672.25	2670.5	2642.5	2644.75	2670	2672.25	2667.75	2665
SCC Frequency		2637.75				2640	2637.75		
PCC Bandwidth	20								
	Low			Mid			High		
PCC Frequency	2630			2655			2680		
SCC Bandwidth	10	15	20	10	15	20	10	15	20
SCC Frequency	2644.5	2647.25	2650	2669.5	2672.25	2675	2665.5	2662.75	2660
SCC Frequency				2641	2645	2635			

Measurement results are provided in Table 6. Based upon the measurement results, uplink power is not affected by downlink CA and additional SAR measurements are not required.

Table 6

PCC Band	SCC Band	PCC BW	PCC DL Freq. MHz	SCC BW	SCC DL Freq. MHz	UL RBs	UL RB Start	UL Freq. MHz	Mod.	UL Power Standalone dBm	UL Power CA dBm	Delta dBm
2	4	1.4	1960	20	2132.5	1	3	1880	QPSK	24.5	24.5	0
2	4	3	1960	20	2132.5	1	8	1880	QPSK	24.5	24.4	-0.1
2	4	5	1960	20	2132.5	1	12	1880	QPSK	24.5	24.5	0
2	4	10	1960	20	2132.5	1	24	1880	QPSK	24.5	24.5	0
2	4	15	1960	20	2132.5	1	36	1880	QPSK	24.5	24.5	0
2	4	20	1960	20	2132.5	1	49	1880	QPSK	24.5	24.5	0
2	5	5	1960	10	881.5	1	12	1880	QPSK	24.5	24.5	0
2	5	10	1960	10	881.5	1	24	1880	QPSK	24.5	24.5	0
2	5	15	1960	10	881.5	1	36	1880	QPSK	24.5	24.5	0
2	5	20	1960	10	881.5	1	49	1880	QPSK	24.5	24.5	0
2	12	10	1960	10	737.5	1	24	1880	QPSK	24.5	24.5	0
2	12	15	1960	10	737.5	1	36	1880	QPSK	24.5	24.5	0
2	12	20	1960	10	737.5	1	49	1880	QPSK	24.5	24.5	0
2	17	5	1960	10	740	1	12	1880	QPSK	24.5	24.5	0
2	17	10	1960	10	740	1	24	1880	QPSK	24.5	24.5	0
2	29	5	1960	10	722.5	1	12	1880	QPSK	24.5	24.5	0
2	29	10	1960	10	722.5	1	24	1880	QPSK	24.5	24.5	0
2	29	15	1960	10	722.5	1	36	1880	QPSK	24.5	24.5	0
2	29	20	1960	10	722.5	1	49	1880	QPSK	24.5	24.5	0
4	2	5	2132.5	20	1960	1	12	1732.5	QPSK	24	23.9	-0.1
4	2	10	2132.5	20	1960	1	24	1732.5	QPSK	23.9	23.9	0
4	2	15	2132.5	20	1960	1	36	1732.5	QPSK	23.9	23.9	0
4	2	20	2132.5	20	1960	1	49	1732.5	QPSK	24	24	0
5	2	5	881.5	20	1960	1	12	836.5	QPSK	24.5	24.5	0
5	2	10	881.5	20	1960	1	24	836.5	QPSK	24.5	24.5	0
5	4	5	881.5	20	2132.5	1	12	836.5	QPSK	24.5	24.5	0
5	4	10	881.5	20	2132.5	1	24	836.5	QPSK	24.5	24.5	0
7	4	5	2655	10	2132.5	1	12	2535	QPSK	22.3	22.3	0
7	4	10	2655	10	2132.5	1	24	2535	QPSK	22.3	22.3	0
7	4	15	2655	10	2132.5	1	36	2535	QPSK	22.3	22.3	0
7	4	20	2655	10	2132.5	1	49	2535	QPSK	22.3	22.3	0
12	2	3	737.5	20	1960	1	8	707.5	QPSK	25	25	0
12	2	5	737.5	20	1960	1	12	707.5	QPSK	25	25	0
12	2	10	737.5	20	1960	1	24	707.5	QPSK	25	25	0
13	2	10	751	20	1960	1	24	782	QPSK	24	23.8	-0.2
17	2	5	740	10	1960	1	12	710	QPSK	25	25	0
17	2	10	740	10	1960	1	24	710	QPSK	25	24.9	-0.1
30	12	5	2355	10	737.5	1	12	2310	QPSK	22.3	22.3	0
30	12	10	2355	10	737.5	1	24	2310	QPSK	22.3	22.3	0
2	2	20	1960	20	1960	1	49	1880	QPSK	24.5	24.5	0
4	4	20	2132.5	20	2132.5	1	49	1732.5	QPSK	23.9	23.9	0
7	7	20	2655	20	2655	1	49	2535	QPSK	22.3	22.3	0
25	25	20	1962.5	20	1962.5	1	49	1882.5	QPSK	24.5	24.5	0
41	41	20	2593	20	2593	1	49	2593	QPSK	23	23	0

9.5. Wi-Fi 2.4GHz (DTS Band)

For Antenna D 2.4 GHz band, there are two use cases:

- P_{Low} : This will be used when both Cellular and Wi-Fi radios are ON.
- P_{Max} : This will be used when only Wi-Fi radio is ON

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Antenna A	Antenna B	Antenna D P_{max}	Antenna D P_{Low}
2.4	802.11b	1 Tx	1	2412	16.3	15.6	11.0	3.9
			6	2437	16.3	15.6	11.0	3.8
			11	2462	16.3	15.6	11.0	3.9
			12	2467	16.3	15.6	10.9	3.8
			13	2472	14.0	14.0	2.0	2.0
	802.11g CDD	2 Tx A + B	1	2412	14.0	14.0		
			2	2417	16.3	15.6		
			6	2437	16.3	15.6		
			10	2457	16.3	15.6		
			11	2462	13.0	13.0		
			12	2467	11.0	11.0		
			13	2472	2.0	2.0		
	802.11g CDD	2 Tx A + D P_{High}	1	2412	14.0		10.8	
			2	2417	16.3		10.8	
			6	2437	16.3		10.8	
			10	2457	16.3		10.8	
			11	2462	13.0		10.8	
			12	2467	11.0		10.8	
			13	2472	2.0		2.0	
	802.11g CDD	2 Tx A + D P_{Low}	1	2412	14.0			3.9
			2	2417	16.3			4.0
			6	2437	16.3			4.0
			10	2457	16.3			3.9
			11	2462	13.0			3.8
			12	2467	11.0			3.7
			13	2472	2.0			2.0

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

Measured Results

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)	
					Antenna A	Antenna B
5.3	802.11n HT40	1 Tx	54	5270	17.5	17.5
			62	5310	15.0	15.0
	802.11n HT40 STBC	2 Tx	54	5270	16.9	16.9
			62	5310	13.5	13.5
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)	
					Antenna A	Antenna B
5.5	802.11ac VHT80	1 Tx	106	5530	14.3	14.5
			122	5610	15.6	16.5
			138	5690	15.6	16.5
	802.11ac VHT80 CDD	2 Tx	106	5530	13.3	13.5
			122	5610	15.6	16.5
			138	5690	15.6	16.5
Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)	
					Antenna A	Antenna B
5.8	802.11n HT 40	1 Tx	151	5755	13.0	
			159	5795	16.5	
	802.11a	1 Tx	153	5765		16.8
			157	5785		16.8
			161	5805		16.8
	802.11a CDD	2 Tx	153	5765	16.1	16.9
			157	5785	16.1	16.9
			161	5805	16.1	16.9

9.7. Bluetooth

Band (GHz)	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Average Power (dBm)			
					Max Power		Low Power	
					Antenna B	Antenna D	Antenna B	Antenna D
2.4	V3.0 +EDR GFSK	1 Tx	0	2402	16.9	12.0	9.0	4.3
			39	2441	17.0	12.0	9.0	4.6
			78	2480	16.7	11.6	8.9	4.2

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:

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

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

KDB 248227 D01 SAR meas for 802.11:

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

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

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
 - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - When it is unclear, all equivalent conditions must be tested.

- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.
 - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

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

10.1. GSM850

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
GPRS 2 Slots	0	Rear	128	824.2	23.5	23.0			0.770	0.362	0.864	0.406					1
			190	836.6	23.5	23.0			0.894	0.417	1.003	0.468					
			251	848.8	23.5	22.6			0.868	0.406	1.068	0.499					
		Edge 1	190	836.6	23.5	23.0			0.665	0.324	0.746	0.364					
		Edge 2	190	836.6	23.5	23.0			0.055	0.030	0.062	0.033					
		Edge 3	190	836.6	23.5	23.0			0.008	0.004	0.009	0.004					
GPRS 2 Slots	0	Rear	128	824.2			24.5	23.8					0.877	0.385	1.030	0.452	
			190	836.6			24.5	23.9					0.768	0.337	0.882	0.387	
			251	848.8			24.5	23.8					0.691	0.304	0.812	0.357	
		Edge 1	190	836.6			24.5	23.9					0.621	0.309	0.713	0.355	
		Edge 3	190	836.6			24.5	23.9					0.008	0.004	0.010	0.005	
		Edge 4	190	836.6			24.5	23.9					0.094	0.051	0.108	0.059	

10.2. GSM1900

Mode	Dist. (mm)	Position	Ch #	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
GPRS 2 Slots	0	Rear	512	1850.2	19.3	19.2			0.833	0.383	0.852	0.392					2
			661	1880.0	19.3	19.3			0.922	0.419	0.922	0.419					
			810	1909.8	19.3	19.3			1.150	0.518	1.150	0.518					
		Edge 1	661	1880.0	19.3	19.3			0.677	0.299	0.677	0.299					
		Edge 2	661	1880.0	19.3	19.3			0.066	0.032	0.066	0.032					
		Edge 3	661	1880.0	19.3	19.3			<0.001	<0.001	<0.01	<0.01					
GPRS 2 Slots	0	Rear	512	1850.2			20.0	20.0					1.020	0.453	1.020	0.453	
			661	1880.0			20.0	20.0					1.120	0.499	1.120	0.499	
			810	1909.8			20.0	20.0					1.030	0.465	1.030	0.465	
		Edge 1	512	1850.2			20.0	20.0					0.700	0.310	0.700	0.310	
			661	1880.0			20.0	20.0					0.810	0.354	0.810	0.354	
			810	1909.8			20.0	20.0					0.812	0.352	0.812	0.352	
		Edge 3	661	1880.0			20.0	20.0					<0.001	<0.001	<0.001	<0.001	
		Edge 4	661	1880.0			20.0	20.0					0.060	0.029	0.060	0.029	

10.3. W-CDMA Band II

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Rel 99 RMC 12.2 kbps	0	Rear	9262	1852.4	13.5	13.5			1.140	0.516	1.140	0.516					3
			9400	1880.0	13.5	13.5			1.180	0.525	1.180	0.525					
			9538	1907.6	13.5	13.5			1.170	0.522	1.170	0.522					
		Edge 1	9400	1880.0	13.5	13.5			0.783	0.346	0.783	0.346					
		Edge 2	9400	1880.0	13.5	13.5			0.077	0.038	0.077	0.038					
		Edge 3	9400	1880.0	13.5	13.5			<0.001	<0.001	<0.001	<0.001					
Rel 99 RMC 12.2 kbps	0	Rear	9262	1852.4			13.8	13.8					1.090	0.487	1.090	0.487	
			9400	1880.0			13.8	13.8					1.140	0.503	1.140	0.503	
			9538	1907.6			13.8	13.8					1.160	0.507	1.160	0.507	
		Edge 1	9400	1880.0			13.8	13.8					0.744	0.330	0.744	0.330	
		Edge 3	9400	1880.0			13.8	13.8					<0.001	<0.001	<0.001	<0.001	
		Edge 4	9400	1880.0			13.8	13.8					0.058	0.028	0.058	0.028	

10.4. W-CDMA Band IV

Mode	Dist. (mm)	Position	Ch #	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Rel 99 RMC 12.2 kbps	0	Rear	13 12	1712.4	13.5	13.5			1.050	0.490	1.050	0.490					
			14 13	1732.6	13.5	13.4			1.070	0.501	1.095	0.513					
			15 13	1752.6	13.5	13.4			1.090	0.504	1.115	0.516					
		Edge 1	13 12	1712.4	13.5	13.5			0.802	0.356	0.802	0.356					
			14 13	1732.6	13.5	13.4			0.823	0.362	0.842	0.370					
			15 13	1752.6	13.5	13.4			0.832	0.365	0.851	0.374					
		Edge 2	14 13	1732.6	13.5	13.4			0.054	0.028	0.055	0.029					
		Edge 3	14 13	1732.6	13.5	13.4			<0.001	<0.001	<0.001	<0.001					
Rel 99 RMC 12.2 kbps	0	Rear	13 12	1712.4			13.5	13.5					1.170	0.542	1.170	0.542	4
			14 13	1732.6			13.5	13.5					1.070	0.501	1.070	0.501	
			15 13	1752.6			13.5	13.5					1.120	0.519	1.120	0.519	
		Edge 1	13 12	1712.4			13.5	13.5					0.803	0.362	0.803	0.362	
			14 13	1732.6			13.5	13.5					0.806	0.356	0.806	0.356	
			15 13	1752.6			13.5	13.5					0.790	0.351	0.790	0.351	
		Edge 3	14 13	1732.6			13.5	13.5					<0.001	<0.001	<0.001	<0.001	
		Edge 4	14 13	1732.6			13.5	13.5					0.072	0.035	0.072	0.035	

10.5. W-CDMA Band V

Mode	Dist. (mm)	Position	Ch #	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Rel 99 RMC 12.2 kbps	0	Rear	4132	826.4	17.5	17.3			1.090	0.521	1.141	0.546					5
			4183	836.6	17.5	17.3			1.010	0.479	1.058	0.502					
			4233	846.6	17.5	17.3			1.030	0.490	1.079	0.513					
		Edge 1	4132	826.4	17.5	17.3			0.862	0.425	0.903	0.445					
			4183	836.6	17.5	17.3			0.801	0.399	0.839	0.418					
			4233	846.6	17.5	17.3			0.776	0.383	0.813	0.401					
		Edge 2	4183	836.6	17.5	17.3			0.010	0.006	0.010	0.006					
		Edge 3	4183	836.6	17.5	17.3			0.023	0.013	0.024	0.013					
Rel 99 RMC 12.2 kbps	0	Rear	4132	826.4			17.5	17.3					1.060	0.352	1.110	0.369	
			4183	836.6			17.5	17.3					1.010	0.505	1.058	0.529	
			4233	846.6			17.5	17.3					0.967	0.481	1.013	0.504	
		Edge 1	4183	836.6			17.5	17.3					0.761	0.401	0.797	0.420	
		Edge 3	4183	836.6			17.5	17.3					0.017	0.009	0.018	0.010	
		Edge 4	4183	836.6			17.5	17.3					0.093	0.052	0.097	0.054	

10.6. CDMA BC0

Mode	Dist. (mm)	Position	Ch #	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
1x RTT (RC3 SO32)	0	Rear	1013	824.7	17.5	17.0			0.907	0.458	1.018	0.514					6
			384	836.5	17.5	17.0			0.869	0.438	0.975	0.491					
			777	848.3	17.5	17.0			0.854	0.431	0.958	0.484					
		Edge 1	384	836.5	17.5	17.0			0.640	0.322	0.718	0.361					
		Edge 2	384	836.5	17.5	17.0			0.065	0.034	0.073	0.038					
		Edge 3	384	836.5	17.5	17.0			0.012	0.005	0.014	0.006					
1x EVDO (Rel. 0)	0	Rear	1013	824.7	17.5	17.0			0.804	0.403	0.902	0.452					
			384	836.5	17.5	17.0			0.853	0.426	0.957	0.478					
			777	848.3	17.5	17.0			0.787	0.396	0.883	0.444					
		Edge 1	384	836.5	17.5	17.0			0.658	0.336	0.738	0.377					
		Edge 2	384	836.5	17.5	17.0			0.061	0.033	0.069	0.037					
		Edge 3	384	836.5	17.5	17.0			0.014	0.007	0.015	0.008					
1x RTT (RC3 SO32)	0	Rear	1013	824.7			17.5	17.1					0.925	0.446	1.014	0.489	
			384	836.5			17.5	17.2					0.884	0.423	0.947	0.453	
			777	848.3			17.5	17.2					0.854	0.409	0.915	0.438	
		Edge 1	384	836.5			17.5	17.2					0.707	0.351	0.758	0.376	
		Edge 3	384	836.5			17.5	17.2					0.015	0.008	0.016	0.008	
		Edge 4	384	836.5			17.5	17.2					0.062	0.034	0.066	0.036	
1x EVDO (Rel. 0)	0	Rear	1013	824.7			17.5	17.3					0.952	0.499	0.997	0.523	
			384	836.5			17.5	17.3					0.840	0.424	0.880	0.444	
			777	848.3			17.5	17.3					0.817	0.410	0.856	0.429	
		Edge 1	384	836.5			17.5	17.3					0.673	0.345	0.705	0.361	
		Edge 3	384	836.5			17.5	17.3					0.014	0.008	0.015	0.008	
		Edge 4	384	836.5			17.5	17.3					0.065	0.036	0.068	0.038	

10.7. CDMA BC1

Mode	Dist. (mm)	Position	Ch #	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Tx RTT (RC3 SO32)	0	Rear	25	1851.3	13.5	13.3			0.945	0.429	0.990	0.449					
			600	1880.0	13.5	13.4			0.976	0.438	0.999	0.448					
			1175	1908.8	13.5	13.3			0.979	0.438	1.025	0.459					
		Edge 1	600	1880.0	13.5	13.4			0.773	0.340	0.791	0.348					
		Edge 2	600	1880.0	13.5	13.4			0.077	0.035	0.079	0.036					
		Edge 3	600	1880.0	13.5	13.4			<0.001	<0.001	<0.001	<0.001					
Tx EVDO (Rel. 0)	0	Rear	25	1851.3	13.5	13.3			0.878	0.398	0.919	0.417					
			600	1880.0	13.5	13.4			0.793	0.353	0.811	0.361					
			1175	1908.8	13.5	13.3			0.920	0.411	0.963	0.430					
		Edge 1	600	1880.0	13.5	13.4			0.713	0.307	0.730	0.314					
		Edge 2	600	1880.0	13.5	13.4			0.073	0.032	0.075	0.033					
		Edge 3	600	1880.0	13.5	13.4			<0.001	<0.001	<0.001	<0.001					
Tx RTT (RC3 SO32)	0	Rear	25	1851.3			13.8	13.4					0.890	0.407	0.976	0.446	
			600	1880.0			13.8	13.7					0.913	0.406	0.934	0.415	
			1175	1908.8			13.8	13.4					0.938	0.420	1.028	0.461	7
		Edge 1	600	1880.0			13.8	13.7					0.778	0.336	0.796	0.344	
		Edge 3	600	1880.0			13.8	13.7					<0.001	<0.001	<0.001	<0.001	
		Edge 4	600	1880.0			13.8	13.7					0.045	0.020	0.046	0.020	
Tx EVDO (Rel. 0)	0	Rear	25	1851.3			13.8	13.2					0.749	0.338	0.860	0.388	
			600	1880.0			13.8	13.4					0.800	0.335	0.877	0.367	
			1175	1908.8			13.8	13.2					0.779	0.346	0.894	0.397	
		Edge 1	600	1880.0			13.8	13.4					0.713	0.311	0.782	0.341	
		Edge 3	600	1880.0			13.8	13.4					<0.001	<0.001	<0.001	<0.001	
		Edge 4	600	1880.0			13.8	13.4					0.049	0.022	0.054	0.024	

10.8. CDMA BC10

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
1x RTT (RC3 SO32)	0	Rear	476	817.9	17.5	16.7			0.904	0.455	1.087	0.547					8
			580	820.5	17.5	16.9			0.890	0.447	1.022	0.513					
			670	822.8	17.5	16.9			0.882	0.440	1.013	0.505					
		Edge 1	580	820.5	17.5	16.9			0.667	0.361	0.766	0.414					
		Edge 2	580	820.5	17.5	16.9			0.070	0.036	0.080	0.041					
		Edge 3	580	820.5	17.5	16.9			0.018	0.098	0.021	0.112					
1x EVDO (Rel. 0)	0	Rear	476	817.9	17.5	17.0			0.950	0.474	1.066	0.532					
			580	820.5	17.5	17.0			0.911	0.464	1.022	0.521					
			670	822.8	17.5	17.0			0.881	0.454	0.988	0.509					
		Edge 1	580	820.5	17.5	17.0			0.675	0.353	0.757	0.396					
		Edge 2	580	820.5	17.5	17.0			0.078	0.042	0.087	0.047					
		Edge 3	580	820.5	17.5	17.0			0.018	0.010	0.020	0.011					
1x RTT (RC3 SO32)	0	Rear	476	817.9			17.5	17.3					0.965	0.501	1.010	0.525	
			580	820.5			17.5	17.2					0.931	0.441	0.998	0.473	
			670	822.8			17.5	17.3					0.961	0.499	1.006	0.523	
		Edge 1	580	820.5			17.5	17.2					0.658	0.348	0.705	0.373	
		Edge 3	580	820.5			17.5	17.2					0.012	0.006	0.012	0.007	
		Edge 4	580	820.5			17.5	17.2					0.063	0.035	0.067	0.038	
1x EVDO (Rel. 0)	0	Rear	476	817.9			17.5	17.2					0.842	0.408	0.902	0.437	
			580	820.5			17.5	17.2					0.895	0.466	0.959	0.499	
			670	822.8			17.5	17.2					0.912	0.479	0.977	0.513	
		Edge 1	580	820.5			17.5	17.2					0.635	0.325	0.680	0.348	
		Edge 3	580	820.5			17.5	17.2					0.011	0.006	0.012	0.007	
		Edge 4	580	820.5			17.5	17.2					0.053	0.029	0.057	0.031	

10.9. CDMA BC15

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
					Antenna C		Antenna D		Antenna C				Antenna D				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
									1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
1x RTT (RC3 SO32)	0	Rear	25	1711.3	13.5	13.5			1.120	0.523	1.120	0.523					9
			450	1732.5	13.5	13.5			1.150	0.532	1.150	0.532					
			875	1753.8	13.5	13.5			1.140	0.528	1.140	0.528					
		Edge 1	25	1711.3	13.5	13.5			0.832	0.366	0.832	0.366					
			450	1732.5	13.5	13.5			0.828	0.375	0.828	0.375					
			875	1753.8	13.5	13.5			0.864	0.376	0.864	0.376					
		Edge 2	450	1732.5	13.5	13.5			0.073	0.037	0.073	0.037					
		Edge 3	450	1732.5	13.5	13.5			<0.001	<0.001	<0.001	<0.001					
1x EVDO (Rel. 0)	0	Rear	25	1711.3	13.5	13.5			1.060	0.498	1.060	0.498					
			450	1732.5	13.5	13.5			1.100	0.513	1.100	0.513					
			875	1753.8	13.5	13.5			1.090	0.505	1.090	0.505					
		Edge 1	25	1711.3	13.5	13.5			0.840	0.369	0.840	0.369					
			450	1732.5	13.5	13.5			0.875	0.386	0.875	0.386					
			875	1753.8	13.5	13.5			0.801	0.349	0.801	0.349					
		Edge 2	450	1732.5	13.5	13.5			0.076	0.038	0.076	0.038					
		Edge 3	450	1732.5	13.5	13.5			<0.001	<0.001	<0.001	<0.001					
1x RTT (RC3 SO32)	0	Rear	25	1711.3			13.5	13.5					1.100	0.513	1.100	0.513	
			450	1732.5			13.5	13.5					1.130	0.520	1.130	0.520	
			875	1753.8			13.5	13.5					1.150	0.526	1.150	0.526	
		Edge 1	450	1732.5			13.5	13.5					0.752	0.334	0.752	0.334	
		Edge 3	450	1732.5			13.5	13.5					<0.001	<0.001	<0.001	<0.001	
		Edge 4	450	1732.5			13.5	13.5					0.065	0.030	0.065	0.030	
1x EVDO (Rel. 0)	0	Rear	25	1711.3			13.5	13.5					1.050	0.491	1.050	0.491	
			450	1732.5			13.5	13.5					1.080	0.500	1.080	0.500	
			875	1753.8			13.5	13.5					1.100	0.505	1.100	0.505	
		Edge 1	450	1732.5			13.5	13.5					0.745	0.330	0.745	0.330	
		Edge 3	450	1732.5			13.5	13.5					<0.001	<0.001	<0.001	<0.001	
		Edge 4	450	1732.5			13.5	13.5					0.064	0.031	0.064	0.031	

10.10. LTE Band 2 (20MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots	
							Antenna C		Antenna D		Antenna C				Antenna D					
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled			
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
QPSK	0	Rear	18700	1860.0	1	49	13.3	13.0			1.040	0.435	1.114	0.466						
					50	24	13.3	13.0			1.030	0.459	1.104	0.492						
			18900	1880.0	1	49	13.3	13.0			1.060	0.478	1.136	0.512						
					50	24	13.3	13.0			1.050	0.468	1.125	0.501						
			19100	1900.0	100	0	13.3	13.0			1.080	0.484	1.157	0.519					10	
					1	49	13.3	13.0			1.030	0.463	1.104	0.496						
		Edge 1	18700	1860.0	1	49	13.3	13.0			0.793	0.352	0.850	0.377						
					50	24	13.3	13.0			0.715	0.316	0.766	0.339						
			18900	1880.0	1	49	13.3	13.0			0.803	0.362	0.860	0.388						
					50	24	13.3	13.0			0.776	0.349	0.831	0.374						
			19100	1900.0	100	0	13.3	13.0			0.736	0.322	0.789	0.345						
					1	49	13.3	13.0			0.817	0.368	0.875	0.394						
			Edge 2	18900	1880.0	1	49	13.3	13.0			0.738	0.322	0.791	0.345					
						50	24	13.3	13.0			0.078	0.038	0.084	0.041					
		Edge 3	18900	1880.0	1	49	13.3	13.0			<0.001	<0.001	<0.001	<0.001						
					50	24	13.3	13.0			<0.001	<0.001	<0.001	<0.001						
QPSK	0	Rear	18700	1860.0	1	49			13.8	13.8					1.090	0.509	1.090	0.509		
					50	24			13.8	13.7					1.050	0.488	1.074	0.499		
			18900	1880.0	1	49			13.8	13.7					1.030	0.483	1.054	0.494		
					50	24			13.8	13.7					1.050	0.484	1.074	0.495		
			19100	1900.0	1	49			13.8	13.8					1.140	0.524	1.140	0.524		
					50	24			13.8	13.8					1.090	0.497	1.090	0.497		
		Edge 1	18700	1860.0	100	0			13.8	13.8					1.120	0.514	1.120	0.514		
					1	49			13.8	13.7					0.738	0.354	0.755	0.362		
			18900	1880.0	1	49			13.8	13.7					0.768	0.339	0.786	0.347		
					50	24			13.8	13.7					0.830	0.360	0.849	0.368		
			19100	1900.0	1	49			13.8	13.8					0.802	0.346	0.802	0.346		
					50	24			13.8	13.7					<0.001	<0.001	<0.001	<0.001		
		Edge 3	18900	1880.0	1	49			13.8	13.7					<0.001	<0.001	<0.001	<0.001		
					50	24			13.8	13.7					0.060	0.029	0.061	0.030		
			Edge 4	18900	1880.0	1	49			13.8	13.7					0.058	0.029	0.060	0.029	
						50	24			13.8	13.7									

10.11. LTE Band 4 (20MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots	
							Antenna C		Antenna D		Antenna C				Antenna D					
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled			
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
QPSK	0	Rear	20050	1720.0	1	0	13.8	13.8			1.110	0.519	1.110	0.519					11	
					50	0	13.8	13.7			1.150	0.532	1.177	0.544						
			20175	1732.5	1	99	13.8	13.8			1.150	0.530	1.150	0.530						
					50	49	13.8	13.8			1.170	0.536	1.170	0.536						
			20300	1745.0	100	0	13.8	13.8			1.160	0.534	1.160	0.534						
					1	0	13.8	13.8			1.140	0.528	1.140	0.528						
		Edge 1	20050	1720.0	50	0	13.8	13.7			1.160	0.530	1.187	0.542						
					1	0	13.8	13.8			0.817	0.363	0.817	0.363						
			20175	1732.5	50	49	13.8	13.8			0.833	0.372	0.852	0.381						
					1	99	13.8	13.8			0.822	0.368	0.822	0.368						
			20300	1745.0	50	49	13.8	13.8			0.851	0.379	0.851	0.379						
					100	0	13.8	13.8			0.818	0.370	0.818	0.370						
		Edge 2	20175	1732.5	1	0	13.8	13.8			0.826	0.368	0.826	0.368						
					50	0	13.8	13.7			0.830	0.370	0.849	0.379						
			Edge 3	20175	1732.5	1	99	13.8	13.8			0.067	0.034	0.067	0.034					
						50	49	13.8	13.8			0.069	0.035	0.069	0.035					
Edge 3	20175	1732.5	1	99	13.8	13.8			<0.001	<0.001	<0.001	<0.001								
			50	49	13.8	13.8			<0.001	<0.001	<0.001	<0.001								
QPSK	0	Rear	20050	1720.0	1	0			13.5	13.5					1.130	0.537	1.130	0.537		
					50	49			13.5	13.5					1.150	0.547	1.150	0.547		
			20175	1732.5	1	0			13.5	13.5					1.160	0.544	1.160	0.544		
					50	0			13.5	13.5					1.130	0.539	1.130	0.539		
			20300	1745.0	100	0			13.5	13.5					1.130	0.538	1.130	0.538		
					1	0			13.5	13.5					1.170	0.551	1.170	0.551		
		Edge 1	20175	1732.5	50	0			13.5	13.5					1.170	0.550	1.170	0.550		
					1	0			13.5	13.5					0.788	0.347	0.788	0.347		
		Edge 3	20175	1732.5	50	0			13.5	13.5					0.783	0.348	0.783	0.348		
					1	49			13.5	13.5					<0.001	<0.001	<0.001	<0.001		
		Edge 4	20175	1732.5	50	24			13.5	13.5					<0.001	<0.001	<0.001	<0.001		
					1	49			13.5	13.5					0.020	0.011	0.020	0.011		
		Edge 4	20175	1732.5	50	24			13.5	13.5					0.020	0.011	0.020	0.011		

10.12. LTE Band 5 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots	
							Antenna C		Antenna D		Antenna C				Antenna D					
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled			
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
QPSK	0	Rear	20450	829.0	1	24	17.5	17.0			0.968	0.470	1.086	0.527					12	
					25	12	17.5	17.0			0.965	0.466	1.083	0.523						
					50	0	17.5	17.0			0.943	0.452	1.058	0.507						
			20525	836.5	1	24	17.5	17.0			0.947	0.460	1.063	0.516						
					25	12	17.5	17.0			0.955	0.460	1.072	0.516						
					50	0	17.5	16.9			0.908	0.442	1.043	0.507						
		20600	844.0	1	24	17.5	17.0			0.925	0.447	1.038	0.502							
				25	12	17.5	17.0			0.798	0.396	0.895	0.444							
				50	0	17.5	17.0			0.834	0.401	0.936	0.450							
				20525	836.5	1	24	17.5	17.0			0.751	0.374	0.843	0.420					
						25	12	17.5	17.0			0.759	0.381	0.852	0.427					
						50	0	17.5	17.0			0.810	0.384	0.909	0.431					
		20600	844.0	1	24	17.5	16.9			0.736	0.355	0.845	0.408							
				25	12	17.5	17.0			0.785	0.372	0.881	0.417							
				50	0	17.5	17.0			0.080	0.046	0.090	0.052							
				20525	836.5	1	24	17.5	17.0			0.096	0.052	0.108	0.058					
						25	12	17.5	17.0			0.039	0.019	0.044	0.021					
				20525	836.5	1	24	17.5	17.0			0.030	0.019	0.034	0.021					
25	12	17.5	17.0																	
QPSK	0	Rear	20450	829.0	1	24			17.8	17.5					1.000	0.435	1.072	0.466		
					25	12			17.8	17.5					0.991	0.427	1.062	0.458		
					50	0			17.8	17.5					0.953	0.415	1.021	0.445		
			20525	836.5	1	24			17.8	17.5					0.957	0.413	1.025	0.443		
					25	12			17.8	17.5					0.973	0.420	1.043	0.450		
					50	0			17.8	17.5					0.897	0.390	0.984	0.428		
		20600	844.0	1	24			17.8	17.4					0.934	0.402	1.024	0.441			
				25	12			17.8	17.4					0.813	0.414	0.871	0.444			
				50	0			17.8	17.5					0.774	0.395	0.829	0.423			
				20525	836.5	1	24			17.8	17.5					0.811	0.404	0.869	0.433	
						25	12			17.8	17.5					0.783	0.402	0.839	0.431	
						50	0			17.8	17.5					0.772	0.391	0.827	0.419	
		20600	844.0	1	24			17.8	17.4					0.766	0.385	0.840	0.422			
				25	12			17.8	17.4					0.754	0.377	0.827	0.413			
				50	0			17.8	17.5					0.009	0.005	0.009	0.005			
				20525	836.5	1	24			17.8	17.5					0.009	0.005	0.010	0.005	
						25	12			17.8	17.5					0.111	0.059	0.119	0.063	
				20525	836.5	1	24			17.8	17.5					0.109	0.058	0.117	0.062	
25	12					17.8	17.5													

10.13. LTE Band 7 (20MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)				SAR (W/kg)								Plots			
							Antenna C		Antenna D		Antenna C				Antenna D							
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled					
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g				
QPSK	0	Rear	20850	2510.0	1	49	12.0	11.8			0.943	0.369	0.987	0.386					13			
					50	24	12.0	11.7			0.949	0.372	1.017	0.399								
			21100	2535.0	1	49	12.0	11.8			1.090	0.423	1.141	0.443								
					50	24	12.0	11.8			0.963	0.372	1.008	0.390								
					100	0	12.0	11.6			0.987	0.380	1.082	0.417								
					1	49	12.0	11.8			0.971	0.375	1.017	0.393								
					50	24	12.0	11.8			0.961	0.372	1.006	0.390								
					1	49	12.0	11.8			0.704	0.272	0.737	0.285								
		Edge 1	21100	2535.0	50	24	12.0	11.8			0.693	0.267	0.726	0.280								
					1	49	12.0	11.8			0.101	0.043	0.106	0.045								
		Edge 2	21100	2535.0	50	24	12.0	11.8			0.101	0.044	0.106	0.046								
					1	49	12.0	11.8			0.032	0.013	0.033	0.013								
		Edge 3	21100	2535.0	50	24	12.0	11.8			0.021	0.008	0.022	0.009								
		QPSK	0	Rear	20850	2510.0	1	49			11.8	11.5					0.994	0.386		1.065	0.414	
							50	24			11.8	11.5					1.000	0.383		1.072	0.410	
					1	49			11.8	11.5					1.020	0.386	1.093	0.414				
					50	24			11.8	11.5					1.030	0.394	1.104	0.422				
					100	0			11.8	11.5					1.010	0.388	1.082	0.416				
					1	49			11.8	11.5					0.947	0.368	1.015	0.394				
21350	2560.0				50	24			11.8	11.5					0.958	0.371	1.027	0.398				
					1	49			11.8	11.5					0.702	0.267	0.752	0.286				
Edge 1	21100			2535.0	50	24			11.8	11.5					0.704	0.266	0.754	0.285				
					1	49			11.8	11.5					0.018	0.007	0.019	0.007				
Edge 3	21100			2535.0	50	24			11.8	11.5					0.014	0.006	0.015	0.006				
					1	49			11.8	11.5					0.095	0.039	0.102	0.042				
Edge 4	21100			2535.0	50	24			11.8	11.5					0.091	0.037	0.098	0.040				

10.14. LTE Band 12 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)				SAR (W/kg)								Plots		
							Antenna C		Antenna D		Antenna C				Antenna D						
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled				
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g			
QPSK	0	Rear	23060	704.0	1	24	18.8	18.5			0.910	0.474	0.975	0.508							
					25	12	18.8	18.5			0.941	0.489	1.008	0.524							
					50	0	18.8	18.4			0.907	0.470	0.995	0.515							
			23095	707.5	1	24	18.8	18.5			0.921	0.478	0.987	0.512							
					25	12	18.8	18.5			0.916	0.475	0.982	0.509							
			23130	711.0	1	24	18.8	18.5			0.880	0.457	0.943	0.490							
		25			12	18.8	18.5			0.920	0.476	0.986	0.510								
		Edge 1	23095	707.5	1	24	18.8	18.5			0.560	0.325	0.600	0.348							
					25	12	18.8	18.5			0.557	0.321	0.597	0.344							
		Edge 2	23095	707.5	1	24	18.8	18.5			0.046	0.026	0.049	0.028							
					25	12	18.8	18.5			0.047	0.026	0.050	0.028							
		Edge 3	23095	707.5	1	24	18.8	18.5			0.021	0.013	0.023	0.014							
					25	12	18.8	18.5			0.022	0.014	0.023	0.015							
		QPSK	0	Rear	23060	704.0	1	24			19.0	18.5					0.982	0.494	1.102	0.554	14
							25	12			19.0	18.5					0.988	0.496	1.109	0.557	
							50	0			19.0	18.5					0.974	0.488	1.093	0.548	
23095	707.5				1	24			19.0	18.5					0.941	0.473	1.056	0.531			
					25	12			19.0	18.5					0.947	0.473	1.063	0.531			
23130	711.0				1	24			19.0	18.5					0.914	0.460	1.026	0.516			
				25	12			19.0	18.5					0.920	0.461	1.032	0.517				
Edge 1	23095			707.5	1	24			19.0	18.5					0.656	0.368	0.736	0.413			
					25	12			19.0	18.5					0.649	0.364	0.728	0.408			
Edge 3	23095			707.5	1	24			19.0	18.5					0.022	0.014	0.025	0.016			
					25	12			19.0	18.5					0.023	0.015	0.026	0.016			
Edge 4	23095			707.5	1	24			19.0	18.5					0.067	0.039	0.075	0.044			
					25	12			19.0	18.5					0.063	0.037	0.070	0.041			

10.15. LTE Band 13 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)				SAR (W/kg)								Plots
							Antenna C		Antenna D		Antenna C				Antenna D				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
QPSK	0	Rear	23230	782.0	1	24	19.0	18.1			0.853	0.433	1.049	0.533					15
					25	12	19.0	18.3			0.830	0.423	0.975	0.497					
					50	0	19.0	18.2			0.840	0.430	1.010	0.517					
		Edge 1	23230	782.0	1	24	19.0	18.1			0.740	0.396	0.910	0.487					
					25	12	19.0	18.3			0.677	0.393	0.795	0.462					
		Edge 2	23230	782.0	1	24	19.0	18.1			0.107	0.060	0.132	0.074					
					25	12	19.0	18.3			0.093	0.054	0.109	0.063					
		Edge 3	23230	782.0	1	24	19.0	18.1			0.017	0.008	0.021	0.010					
					25	12	19.0	18.3			0.016	0.008	0.018	0.009					
QPSK	0	Rear	23230	782.0	1	24			19.0	18.2					0.804	0.406	0.967	0.488	
					25	12			19.0	18.2					0.818	0.410	0.983	0.493	
					50	0			19.0	18.2					0.871	0.439	1.047	0.528	
		Edge 1	23230	782.0	1	24			19.0	18.2					0.658	0.346	0.791	0.416	
					25	12			19.0	18.2					0.663	0.348	0.797	0.418	
		Edge 3	23230	782.0	1	24			19.0	18.2					0.020	0.012	0.024	0.014	
					25	12			19.0	18.2					0.019	0.011	0.022	0.013	
		Edge 4	23230	782.0	1	24			19.0	18.2					0.105	0.061	0.126	0.073	
					25	12			19.0	18.2					0.096	0.057	0.115	0.069	

10.16. LTE Band 17 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots
							Antenna C		Antenna D		Antenna C				Antenna D				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
QPSK	0	Rear	23790	710.0	1	24	18.8	18.5			0.913	0.466	0.978	0.499					16
					25	12	18.8	18.5			0.929	0.473	0.995	0.507					
					50	0	18.8	18.4			0.967	0.487	1.060	0.534					
		Edge 1	23790	710.0	1	24	18.8	18.5			0.604	0.342	0.647	0.366					
					25	12	18.8	18.5			0.597	0.342	0.640	0.366					
		Edge 2	23790	710.0	1	24	18.8	18.5			0.054	0.031	0.058	0.033					
					25	12	18.8	18.5			0.038	0.023	0.041	0.025					
		Edge 3	23790	710.0	1	24	18.8	18.5			0.019	0.012	0.020	0.013					
					25	12	18.8	18.5			0.019	0.012	0.020	0.013					
QPSK	0	Rear	23790	710.0	1	24			19.0	18.1					0.844	0.418	1.038	0.514	
					25	12			19.0	18.2					0.857	0.424	1.030	0.510	
					50	0			19.0	18.2					0.847	0.418	1.018	0.503	
		Edge 1	23790	710.0	1	24			19.0	18.1					0.652	0.366	0.802	0.450	
					25	12			19.0	18.2					0.658	0.363	0.791	0.436	
		Edge 3	23790	710.0	1	24			19.0	18.1					0.016	0.006	0.020	0.008	
					25	12			19.0	18.2					0.016	0.006	0.020	0.008	
		Edge 4	23790	710.0	1	24			19.0	18.1					0.079	0.045	0.097	0.055	
					25	12			19.0	18.2					0.078	0.044	0.093	0.053	

10.17. LTE Band 25 (20MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots
							Antenna C		Antenna D		Antenna C				Antenna D				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
QPSK	0	Rear	26140	1860.0	1	49	13.3	13.0			1.060	0.479	1.136	0.513					
					50	24	13.3	13.0			1.020	0.461	1.093	0.494					
			26365	1882.5	1	49	13.3	13.0			1.070	0.479	1.147	0.513					
					50	24	13.3	13.0			1.030	0.463	1.104	0.496					
			26590	1905.0	100	0	13.3	13.0			1.110	0.499	1.189	0.535					
					1	49	13.3	13.0			1.070	0.483	1.147	0.518					
		Edge 1	26140	1860.0	1	49	13.3	13.0			0.814	0.360	0.872	0.386					
					50	24	13.3	13.0			0.806	0.355	0.864	0.380					
			26365	1882.5	1	49	13.3	13.0			0.838	0.370	0.898	0.396					
					50	24	13.3	13.0			0.839	0.368	0.899	0.394					
			26590	1905.0	100	0	13.3	13.0			0.850	0.373	0.911	0.400					
					1	49	13.3	13.0			0.831	0.365	0.890	0.391					
		Edge 2	26365	1882.5	50	24	13.3	13.0			0.839	0.366	0.899	0.392					
					1	49	13.3	13.0			0.097	0.044	0.104	0.048					
			26365	1882.5	50	24	13.3	13.0			0.102	0.046	0.109	0.049					
					1	49	13.3	13.0			<0.001	<0.001	<0.001	<0.001					
			26365	1882.5	50	24	13.3	13.0			<0.001	<0.001	<0.001	<0.001					
					1	49	13.3	13.0			<0.001	<0.001	<0.001	<0.001					
QPSK	0	Rear	26140	1860.0	1	49			13.8	13.7					1.120	0.503	1.146	0.515	
					50	24			13.8	13.8					1.140	0.513	1.140	0.513	
			26365	1882.5	1	49			13.8	13.7					1.130	0.500	1.156	0.512	
					50	24			13.8	13.7					1.160	0.515	1.187	0.527	
			26590	1905.0	100	0			13.8	13.8					1.190	0.533	1.190	0.533	17
					1	49			13.8	13.7					1.160	0.515	1.187	0.527	
		Edge 1	26140	1860.0	50	24			13.8	13.7					1.130	0.508	1.156	0.520	
					1	49			13.8	13.7					0.822	0.357	0.841	0.365	
			26365	1882.5	50	24			13.8	13.7					0.837	0.363	0.837	0.363	
					1	49			13.8	13.7					0.852	0.367	0.872	0.376	
			26590	1905.0	50	24			13.8	13.7					0.873	0.376	0.893	0.385	
					100	0			13.8	13.8					0.891	0.384	0.891	0.384	
		Edge 3	26365	1882.5	1	49			13.8	13.7					0.879	0.375	0.899	0.384	
					50	24			13.8	13.7					0.900	0.385	0.921	0.394	
			26365	1882.5	1	49			13.8	13.7					<0.001	<0.001	<0.001	<0.001	
					50	24			13.8	13.7					<0.001	<0.001	<0.001	<0.001	
			26365	1882.5	1	49			13.8	13.7					0.066	0.035	0.068	0.036	
					50	24			13.8	13.7					0.070	0.031	0.071	0.032	

10.18. LTE Band 26 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots		
							Antenna C		Antenna D		Antenna C				Antenna D						
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled				
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g			
QPSK	0	Rear	26740	819.0	1	24	17.5	17.5			1.180	0.596	1.180	0.596					18		
					25	12	17.5	17.3			1.110	0.555	1.162	0.581							
			26865	831.5	1	24	17.5	17.2			1.070	0.538	1.147	0.576							
					25	12	17.5	17.2			1.060	0.529	1.136	0.567							
					50	0	17.5	17.1			1.050	0.525	1.151	0.576							
					1	24	17.5	17.5			1.150	0.584	1.150	0.584							
		26990	844.0	1	24	17.5	17.5			1.150	0.581	1.150	0.581								
				25	12	17.5	17.5			0.936	0.461	0.936	0.461								
		Edge 1	26740	819.0	1	24	17.5	17.5			0.928	0.454	0.972	0.475							
					25	12	17.5	17.3			0.819	0.405	0.878	0.434							
			26865	831.5	1	24	17.5	17.2			0.809	0.397	0.867	0.425							
					25	12	17.5	17.2			0.794	0.389	0.871	0.427							
					50	0	17.5	17.1			0.964	0.455	0.964	0.455							
					1	24	17.5	17.5			0.916	0.427	0.916	0.427							
		26990	844.0	1	24	17.5	17.2			0.086	0.046	0.092	0.049								
				25	12	17.5	17.2			0.082	0.044	0.088	0.047								
		Edge 2	26865	831.5	1	24	17.5	17.2			0.022	0.011	0.023	0.012							
					25	12	17.5	17.2			0.021	0.011	0.022	0.011							
		Edge 3	26865	831.5	1	24	17.5	17.2													
					25	12	17.5	17.2													
		QPSK	0	Rear	26740	819.0	1	24			17.8	17.8					1.130	0.532		1.130	0.532
							25	12			17.8	17.8					1.060	0.508		1.060	0.508
					26865	831.5	1	24			17.8	17.6					1.050	0.537		1.099	0.562
							25	12			17.8	17.4					0.947	0.443		1.038	0.486
50	0								17.8	17.4					0.974	0.468	1.068	0.513			
1	24								17.8	17.8					1.100	0.529	1.100	0.529			
26990	844.0			25	12			17.8	17.8					1.050	0.496	1.050	0.496				
				1	24			17.8	17.8					0.877	0.446	0.877	0.446				
Edge 1	26740			819.0	25	12			17.8	17.8					0.769	0.389	0.769	0.389			
					1	24			17.8	17.6					0.806	0.411	0.844	0.430			
	26865			831.5	25	12			17.8	17.4					0.788	0.400	0.864	0.439			
					50	0			17.8	17.4					0.783	0.391	0.859	0.429			
					1	24			17.8	17.8					0.944	0.472	0.944	0.472			
					25	12			17.8	17.8					0.795	0.396	0.795	0.396			
26990	844.0			1	24			17.8	17.8					0.013	0.007	0.014	0.007				
				25	12			17.8	17.4					0.012	0.006	0.013	0.006				
Edge 3	26865			831.5	1	24			17.8	17.6					0.073	0.040	0.076	0.042			
					25	12			17.8	17.4					0.073	0.039	0.080	0.043			

10.19. LTE Band 27 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)				SAR (W/kg)								Plots
							Antenna C		Antenna D		Antenna C				Antenna D				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
QPSK	0	Rear	27125	815.5	1	24	17.5	17.0			1.000	0.490	1.122	0.550					19
					25	12	17.5	17.0			0.999	0.475	1.121	0.533					
					50	0	17.5	17.0			1.020	0.485	1.144	0.544					
		Edge 1	27125	815.5	1	24	17.5	17.0			0.757	0.390	0.849	0.438					
					25	12	17.5	17.0			0.745	0.393	0.836	0.441					
					50	0	17.5	17.0			0.820	0.408	0.920	0.458					
		Edge 2	27125	815.5	1	24	17.5	17.0			0.104	0.059	0.117	0.066					
					25	12	17.5	17.0			0.110	0.058	0.123	0.065					
		Edge 3	27125	815.5	1	24	17.5	17.0			0.011	0.007	0.012	0.008					
					25	12	17.5	17.0			0.009	0.005	0.010	0.006					
QPSK	0	Rear	27125	815.5	1	24			17.8	17.5					0.952	0.419	1.020	0.449	
					25	12			17.8	17.5					1.050	0.529	1.125	0.567	
					50	0			17.8	17.5					1.050	0.532	1.125	0.570	
		Edge 1	27125	815.5	1	24			17.8	17.5					0.706	0.372	0.756	0.399	
					25	12			17.8	17.5					0.706	0.365	0.756	0.391	
		Edge 3	27125	815.5	1	24			17.8	17.5					<0.001	<0.001	<0.001	<0.001	
					25	12			17.8	17.5					0.012	0.006	0.013	0.007	
		Edge 4	27125	815.5	1	24			17.8	17.5					0.062	0.034	0.066	0.036	
					25	12			17.8	17.5					0.063	0.035	0.068	0.038	

10.20. LTE Band 30 (10MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)				SAR (W/kg)								Plots
							Antenna C		Antenna D		Antenna C				Antenna D				
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
QPSK	0	Rear	27710	2310.0	1	24	12.8	12.8			1.170	0.467	1.170	0.467					
					25	12	12.8	12.7			1.140	0.467	1.167	0.478					
					50	0	12.8	12.7			1.140	0.454	1.167	0.465					
		Edge 1	27710	2310.0	1	24	12.8	12.8			1.000	0.409	1.000	0.409					
					25	12	12.8	12.7			0.975	0.398	0.998	0.407					
					50	0	12.8	12.7			0.972	0.397	0.995	0.406					
		Edge 2	27710	2310.0	1	24	12.8	12.8			0.081	0.037	0.081	0.037					
					25	12	12.8	12.7			0.078	0.035	0.080	0.036					
		Edge 3	27710	2310.0	1	24	12.8	12.8			<0.001	<0.001	<0.001	<0.001					
					25	12	12.8	12.7			<0.001	<0.001	<0.001	<0.001					
QPSK	0	Rear	27710	2310.0	1	24			12.5	12.5					1.180	0.486	1.180	0.486	20
					25	12			12.5	12.4					1.150	0.471	1.177	0.482	
					50	0			12.5	12.5					1.170	0.484	1.170	0.484	
		Edge 1	27710	2310.0	1	24			12.5	12.5					0.830	0.332	0.830	0.332	
					25	12			12.5	12.4					0.806	0.321	0.825	0.328	
					50	0			12.5	12.5					0.833	0.331	0.833	0.331	
		Edge 3	27710	2310.0	1	24			12.5	12.5					0.004	0.001	0.004	0.001	
					25	12			12.5	12.4					0.006	0.002	0.006	0.002	
		Edge 4	27710	2310.0	1	24			12.5	12.5					0.071	0.030	0.071	0.030	
					25	12			12.5	12.4					0.066	0.028	0.068	0.029	

10.21. LTE Band 41 (20MHz Bandwidth)

Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	RB Alloca tion	RB offset	Power (dBm)				SAR (W/kg)								Plots	
							Antenna C		Antenna D		Antenna C				Antenna D					
							Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled			
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
QPSK	0	Rear	39750	2506.0	1	49	14.5	14.5			1.120	0.435	1.120	0.435						
					50	24	14.5	14.5			1.130	0.438	1.130	0.438						
			40185	2549.5	1	49	14.5	14.5			1.110	0.429	1.110	0.429						
					50	24	14.5	14.5			1.120	0.430	1.120	0.430						
			40620	2593.0	1	49	14.5	14.5			1.110	0.423	1.110	0.423						
					50	24	14.5	14.5			1.140	0.434	1.140	0.434						
					100	0	14.5	14.5			1.130	0.431	1.130	0.431						
			41055	2636.5	1	49	14.5	14.5			1.120	0.414	1.120	0.414						
					50	24	14.5	14.5			1.120	0.415	1.120	0.415						
			41490	2680.0	1	49	14.5	14.5			1.050	0.387	1.050	0.387						
					50	24	14.5	14.5			1.070	0.393	1.070	0.393						
		Edge 1	40620	2593.0	1	49	14.5	14.5			0.737	0.282	0.737	0.282						
					50	24	14.5	14.5			0.752	0.287	0.752	0.287						
			Edge 2	40620	2593.0	1	49	14.5	14.5			0.092	0.039	0.092	0.039					
						50	24	14.5	14.5			0.092	0.040	0.092	0.040					
			Edge 3	40620	2593.0	1	49	14.5	14.5			<0.001	<0.001	<0.001	<0.001					
						50	24	14.5	14.5			<0.001	<0.001	<0.001	<0.001					
QPSK	0	Rear	39750	2506.0	1	49			14.0	14.0					1.030	0.387	1.030	0.387		
					50	24			14.0	14.0					1.020	0.385	1.020	0.385		
			40185	2549.5	1	49			14.0	14.0					1.050	0.391	1.050	0.391		
					50	24			14.0	14.0					1.180	0.439	1.180	0.439	21	
			40620	2593.0	1	49			14.0	14.0					1.180	0.432	1.180	0.432		
					50	24			14.0	14.0					1.180	0.431	1.180	0.431		
					100	0			14.0	13.9					1.090	0.398	1.115	0.407		
			41055	2636.5	1	49			14.0	14.0					1.090	0.387	1.090	0.387		
					50	24			14.0	14.0					1.120	0.394	1.120	0.394		
			41490	2680.0	1	49			14.0	14.0					1.060	0.369	1.060	0.369		
					50	24			14.0	14.0					1.070	0.372	1.070	0.372		
		Edge 1	40620	2593.0	1	49			14.0	14.0					0.741	0.279	0.741	0.279		
					50	24			14.0	14.0					0.755	0.283	0.755	0.283		
		Edge 3	40620	2593.0	1	49			14.0	14.0					<0.001	<0.001	<0.001	<0.001		
					50	24			14.0	14.0					<0.001	<0.001	<0.001	<0.001		
		Edge 4	40620	2593.0	1	49			14.0	14.0					0.083	0.331	0.083	0.331		
					50	24			14.0	14.0					0.084	0.033	0.084	0.033		

10.22. Wi-Fi (DTS Band)**10.22.1. Wi-Fi 2.4GHz (P_{max})****Module 1**

1 Tx																								
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)										Plots		
						Antenna A		Antenna B		Antenna D (P _{Max})		Antenna A				Antenna B				Antenna D (P _{Max})				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured			Scaled	
												1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		1-g	10-g
2.4 GHz	802.11b 20M Hz	0	Rear	6	2437	16.5	16.3					0.068	0.027	0.071	0.028									
			Edge 1	6	2437	16.5	16.3					0.005	0.001	0.005	0.001									
			Edge 3	6	2437	16.5	16.3					0.896	0.278	0.938	0.291									
				12	2467	16.5	16.3					0.868	0.218	0.909	0.228									
			Edge 4	6	2437	16.5	16.3					0.111	0.049	0.116	0.051									
	802.11b 20M Hz	0	Rear	6	2437			16.0	15.6							0.081	0.031	0.089	0.034					
			Edge 1	6	2437			16.0	15.6							0.006	0.001	0.006	0.001					
			Edge 2	6	2437			16.0	15.6							0.113	0.050	0.124	0.055					
			Edge 3	6	2437			16.0	15.6							0.913	0.285	1.001	0.312					
				12	2467			16.0	15.6							0.700	0.224	0.768	0.246					
	802.11b 20M Hz	0	Rear	6	2437					11.0	11.0									1.040	0.405	1.040	0.405	22
				13	2472					11.0	11.0									1.010	0.398	1.010	0.398	
			Edge 1	6	2437					11.0	11.0									0.524	0.203	0.524	0.203	
Edge 3			6	2437					11.0	11.0									<0.001	<0.001	<0.001	<0.001		
Edge 4			6	2437					11.0	11.0									0.035	0.014	0.035	0.014		
2 Tx																								
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)										Plots		
						Antenna A		Antenna B		Antenna D (P _{Max})		Antenna A				Antenna B				Antenna D (P _{Max})				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured			Scaled	
												1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		1-g	10-g
2.4 GHz	802.11g CDD	0	Rear	6	2437	16.5	16.3	16.0	15.6			0.047	0.019	0.049	0.020	0.062	0.063	0.068	0.070					
			Edge 1	6	2437	16.5	16.3	16.0	15.6			0.004	0.001	0.004	0.001	0.012	0.012	0.013	0.013					
			Edge 2	6	2437	16.5	16.3	16.0	15.6							0.131	0.134	0.144	0.147					
			Edge 3	6	2437	16.5	16.3	16.0	15.6			0.814	0.251	0.852	0.263	0.839	0.859	0.920	0.941					
				10	2457	16.5	16.3	16.0	15.6			0.949	0.291	0.994	0.305	0.639	0.639	0.701	0.701					
Edge 4	6	2437	16.5	16.3	16.0	15.6			0.116	0.049	0.121	0.052												
2.4 GHz	802.11g CDD	0	Rear	6	2437	16.5	16.3			11.0	10.8	0.060	0.024	0.063	0.025					0.954	0.376	0.999	0.394	
				10	2462	16.5	16.3			11.0	10.8	0.083	0.034	0.087	0.036					0.908	0.358	0.951	0.375	
			Edge 1	6	2437	16.5	16.3			11.0	10.8									0.492	0.193	0.515	0.202	
			Edge 2	6	2437	16.5	16.3			11.0	10.8									0.015	0.005	0.015	0.005	
			Edge 3	6	2437	16.5	16.3			11.0	10.8	0.861	0.270	0.902	0.283									
				10	2457	16.5	16.3			11.0	10.8	0.880	0.277	0.921	0.290									
			Edge 4	6	2437	16.5	16.3			11.0	10.8	0.116	0.050	0.121	0.053					0.042	0.017	0.044	0.018	

Module 2

1 Tx																								
Band	Mode	Dist. (mm)	Position	Ch # .	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plots
						Antenna A		Antenna B		Antenna D (P _{Max})		Antenna A				Antenna B				Antenna D (P _{max})				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
												1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
2.4 GHz	802.11b 20M Hz	0	Rear	6	2437					11.0	11.0									0.976	0.383	0.976	0.383	

10.22.2. Wi-Fi 2.4GHz (P_{Low})**Module 1**

1 Tx																								
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)										Plots		
						Antenna A		Antenna B		Antenna D (P _{Low})		Antenna A				Antenna B				Antenna D (P _{Low})				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured			Scaled	
2.4 GHz	802.11b 20MHz	0	Rear	6	2437					4.0	3.8									0.200	0.074	0.209	0.077	
			Edge 1	6	2437					4.0	3.8									0.116	0.043	0.121	0.045	
			Edge 3	6	2437					4.0	3.8									<0.001	<0.001	<0.001	<0.001	
			Edge 4	6	2437					4.0	3.8									0.004	0.001	0.004	0.001	
2 Tx																								
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)										Plots		
						Antenna A		Antenna B		Antenna D (P _{Low})		Antenna A				Antenna B				Antenna D (P _{Low})				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured			Scaled	
2.4 GHz	802.11b 20MHz	0	Rear	6	2437	16.5	16.3			4.0	4.0	0.070	0.028	0.073	0.029					0.183	0.183	0.183	0.183	
			Edge 1	6	2437	16.5	16.3			4.0	4.0									0.130	0.130	0.130	0.130	
			Edge 2	6	2437	16.5	16.3			4.0	4.0									<0.001	<0.001	<0.001	<0.001	
			Edge 3	6	2437	16.5	16.3			4.0	4.0	0.912	0.284	0.955	0.297									
				10	2457	16.5	16.3			4.0	3.9	0.975	0.300	1.021	0.314									
			Edge 4	6	2437	16.5	16.3			4.0	4.0	0.120	0.054	0.126	0.057							<0.001	<0.001	<0.001

10.23. Wi-Fi (U-NII Band)

10.23.1. Wi-Fi (U-NII-2A Band)

Module 1

1 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3 GHz	802.11n HT40	0	Rear	54	5270	17.5	17.5			0.163	0.060	0.163	0.060					
			Edge 1	54	5270	17.5	17.5			0.046	0.017	0.046	0.017					
			Edge 3	54	5270	17.5	17.5			0.756	0.257	0.756	0.257					
				62	5310	15.0	15.0			0.481	0.165	0.481	0.165					
			Edge 4	54	5270	17.5	17.5			0.179	0.066	0.179	0.066					
		0	Rear	54	5270			17.5	17.5					0.157	0.061	0.157	0.061	
			Edge 1	54	5270			17.5	17.5					0.052	0.016	0.052	0.016	
			Edge 2	54	5270			17.5	17.5					0.186	0.067	0.186	0.067	
			Edge 3	54	5270			17.5	17.5					0.925	0.310	0.925	0.310	23
				62	5310			15.0	15.0					0.587	0.210	0.587	0.210	

2 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3 GHz	802.11n HT40 STBC	0	Rear	54	5270	17.0	16.9	17.0	16.9	0.111	0.043	0.114	0.044	0.096	0.037	0.098	0.038	
			Edge 1	54	5270	17.0	16.9	17.0	16.9	0.038	0.013	0.039	0.014	0.045	0.015	0.046	0.015	
			Edge 2	54	5270	17.0	16.9	17.0	16.9	<0.001	<0.001	<0.001	<0.001	0.138	0.054	0.141	0.055	
			Edge 3	54	5270	17.0	16.9	17.0	16.9	0.625	0.211	0.640	0.216	0.739	0.240	0.756	0.246	
			Edge 4	54	5270	17.0	16.9	17.0	16.9	0.123	0.032	0.126	0.033	<0.001	<0.001	<0.001	<0.001	

Module 2

1 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3 GHz	802.11n HT40	0	Edge 3	54	5270			17.5	17.5					0.888	0.299	0.888	0.299	

10.23.2. Wi-Fi (U-NII-2C Band)**Module 1**

1 Tx																			
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots	
						Antenna A		Antenna B		Antenna A				Antenna B					
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled			
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
5.5 GHz	802.11ac VHT80	0	Rear	122	5610					0.124	0.041	0.136	0.045					24	
			Edge 1	122	5610	16.0	15.6			0.009	0.003	0.010	0.003						
			Edge 3	122	5610	16.0	15.6			0.921	0.323	1.010	0.354						
				138	5690	16.0	15.6			0.753	0.268	0.826	0.294						
			Edge 4	122	5610	16.0	15.6			0.232	0.069	0.254	0.076						
		0	Rear	122	5610				16.5	16.5					0.084	0.035	0.084		0.035
			Edge 1	122	5610				16.5	16.5					0.001	0.001	0.001		0.001
			Edge 2	122	5610				16.5	16.5					0.139	0.043	0.139		0.043
									16.5	16.5					0.896	0.298	0.896		0.298
			Edge 3	122	5610				16.5	16.5					0.765	0.275	0.765		0.275
		138	5690				16.5	16.5					0.765	0.275	0.765	0.275			

2 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.5 GHz	802.11ac VHT80 CDD	0	Rear	122	5610	16.0	15.6	16.5	16.5	0.078	0.023	0.085	0.026	0.089	0.030	0.089	0.030	
			Edge 1	122	5610	16.0	15.6	16.5	16.5	0.011	0.002	0.012	0.002	0.011	0.004	0.011	0.004	
			Edge 2	122	5610	16.0	15.6	16.5	16.5	<0.001	<0.001	<0.001	<0.001	0.142	0.044	0.142	0.044	
			Edge 3	122	5610	16.0	15.6	16.5	16.5	0.904	0.322	0.991	0.353	0.859	0.294	0.859	0.294	
				138	5690	16.0	15.6	16.5	16.5	0.672	0.222	0.737	0.243	0.654	0.214	0.654	0.214	
			Edge 4	122	5610	16.0	15.6	16.5	16.5	0.171	0.048	0.187	0.053	<0.001	<0.001	<0.001	<0.001	

Module 2

1 Tx																		Plots
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.5 GHz	802.11ac VHT80	0	Edge 3	122	5610	16.0	15.7			0.904	0.322	0.969	0.345					

10.23.3. Wi-Fi (U-NII-3 Band)**Module 1**

1 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.8 GHz	802.11n HT40	0	Rear	159	5795	16.5	16.5			0.129	0.047	0.129	0.047					
			Edge 1	159	5795	16.5	16.5			0.018	0.006	0.018	0.006					
			Edge 3	151	5755	13.0	13.0			0.277	0.097	0.277	0.097					
				159	5795	16.5	16.5			0.845	0.307	0.845	0.307					
			Edge 4	159	5795	16.5	16.5			0.113	0.035	0.113	0.035					
	802.11a	0	Rear	157	5785			17.0	16.8					0.050	0.015	0.053	0.016	
			Edge 1	157	5785			17.0	16.8					0.014	0.003	0.014	0.003	
			Edge 2	157	5785			17.0	16.8					0.131	0.044	0.137	0.046	
			Edge 3	157	5785			17.0	16.8					0.884	0.290	0.926	0.304	
				161	5805			17.0	16.8					0.946	0.343	0.991	0.359	25

2 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.8 GHz	802.11a CDD	0	Rear	157	5785	16.5	16.1	17.0	16.9	0.076	0.029	0.084	0.032	0.086	0.033	0.087	0.033	
			Edge 1	157	5785	16.5	16.1	17.0	16.9	0.014	0.005	0.016	0.005	0.019	0.005	0.019	0.006	
			Edge 2	157	5785	16.5	16.1	17.0	16.9	<0.001	<0.001	<0.001	<0.001	0.097	0.031	0.099	0.032	
			Edge 3	157	5785	16.5	16.1	17.0	16.9	0.735	0.267	0.806	0.293	0.904	0.323	0.925	0.331	
				161	5805	16.5	16.1	17.0	16.9	0.828	0.270	0.908	0.296	0.830	0.293	0.849	0.300	
			Edge 4	157	5785	16.5	16.1	17.0	16.9	0.107	0.033	0.117	0.036	<0.001	<0.001	<0.001	<0.001	

Module 2

1 Tx																		
Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna A		Antenna B		Antenna A				Antenna B				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.8 GHz	802.11a	0	Edge 3	161	5805			17.0	16.5					0.826	0.275	0.927	0.309	

10.24. Bluetooth

10.24.1. Bluetooth (P_{Max})

Module 1

Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna B		Antenna D		Antenna B				Antenna D				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Bluetooth	GFSK	0	Rear	39	2441	17.0	17.0			0.068	0.030	0.068	0.030					
			Edge 1	39	2441	17.0	17.0			<0.001	<0.001	<0.001	<0.001					
			Edge 2	39	2441	17.0	17.0			0.130	0.059	0.130	0.059					
			Edge 3	0	2402	17.0	16.9			0.782	0.246	0.800	0.252					
				39	2441	17.0	17.0			1.100	0.347	1.100	0.347					
				78	2480	17.0	16.7			0.581	0.183	0.623	0.196					
	GFSK	0	Rear	0	2402			12.0	12.0					1.110	0.442	1.110	0.442	
				39	2441			12.0	12.0					1.160	0.455	1.160	0.455	
				78	2480			12.0	11.6					1.070	0.413	1.173	0.453	26
			Edge 1	39	2441			12.0	12.0					0.564	0.219	0.564	0.219	
			Edge 3	39	2441			12.0	12.0					<0.001	<0.001	<0.001	<0.001	
			Edge 4	39	2441			12.0	12.0					0.044	0.018	0.044	0.018	

Module 2

Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna B		Antenna D		Antenna B				Antenna D				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Bluetooth	GFSK	0	Rear	78	2480			12.0	11.6					1.070	0.410	1.173	0.450	

10.24.2. Bluetooth (P_{Low})

Module 1

Band	Mode	Dist. (mm)	Position	Ch #.	Freq. (MHz)	Power (dBm)				SAR (W/kg)								Plots
						Antenna B		Antenna D		Antenna B				Antenna D				
						Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		
										1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
Bluetooth	GFSK	0	Rear	39	2441	9.5	9.0			0.009	0.003	0.010	0.003					
			Edge 1	39	2441	9.5	9.0			<0.001	<0.001	<0.001	<0.001					
			Edge 2	39	2441	9.5	9.0			0.022	0.010	0.025	0.011					
			Edge 3	39	2441	9.5	9.0			0.182	0.056	0.204	0.063					
	GFSK	0	Rear	39	2441			5.0	4.6					0.202	0.079	0.221	0.087	
			Edge 1	39	2441			5.0	4.6					0.095	0.037	0.104	0.041	
			Edge 3	39	2441			5.0	4.6					<0.001	<0.001	<0.001	<0.001	
			Edge 4	39	2441			5.0	4.6					0.005	0.002	0.006	0.002	

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 3 (1-g or 10-g respectively) or when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg ($\sim 10\%$ from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 or 3 (1-g or 10-g respectively).

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
700	LTE Band 12	Standalone	Rear	Yes	0.988	0.916	1.08
	LTE Band 13	Standalone	Rear	No	0.871	N/A	N/A
	LTE Band 17	Standalone	Rear	No	0.967	N/A	N/A
850	GSM 850	Standalone	Rear	No	0.894	N/A	N/A
	CDMA BC0	Standalone	Rear	No	0.925	N/A	N/A
	CDMA BC10	Standalone	Rear	No	0.965	N/A	N/A
	WCDMA Band V	Standalone	Rear	No	1.090	N/A	N/A
	LTE Band 5	Standalone	Rear	No	1.000	N/A	N/A
	LTE Band 26	Standalone	Rear	Yes	1.180	1.140	1.04
	LTE Band 27	Standalone	Rear	No	1.050	N/A	N/A
1900	GSM 1900	Standalone	Rear	No	1.150	N/A	N/A
	CDMA BC1	Standalone	Rear	No	0.979	N/A	N/A
	WCDMA Band II	Standalone	Rear	No	1.180	N/A	N/A
	LTE Band 2	Standalone	Rear	No	1.140	N/A	N/A
	LTE Band 25	Standalone	Rear	Yes	1.190	1.140	1.04
1700	LTE Band 4	Standalone	Rear	Yes	1.170	1.150	1.02
	WCDMA Band IV	Standalone	Rear	Yes	1.170	N/A	N/A
	CDMA BC15	Standalone	Rear	No	1.150	N/A	N/A
2300	LTE Band 30	Standalone	Rear	Yes	1.180	1.180	1.00
2400	Wi-Fi 802.11b/g/n	Standalone	Rear	No	1.040	N/A	N/A
	BT	Standalone	Rear	Yes	1.160	1.130	1.03
2600	LTE Band 7	Standalone	Rear	No	1.090	N/A	N/A
	LTE Band 41	Standalone	Rear	Yes	1.180	1.160	1.02
5300	Wi-Fi 802.11a/n/ac	Standalone	Edge 3	Yes	0.925	0.921	1.00
5500	Wi-Fi 802.11a/n/ac	Standalone	Edge 3	Yes	0.921	0.905	1.02
5800	Wi-Fi 802.11a/n/ac	Standalone	Edge 3	Yes	0.946	0.914	1.04

Note(s):

Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 or 3 (1-g or 10-g respectively).

12. Simultaneous Transmission SAR Analysis

KDB 447498 D01 General RF Exposure Guidance introduces a new formula for calculating 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 measured 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 measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

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

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

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

Simultaneous Transmission Conditions

RF Exposure Condition	Item	Capable Transmit Configurations			
Standalone	1	WWAN OFF	+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna B Bluetooth (P_{Max})
	2		+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna D Bluetooth (P_{Max})
	3		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	4		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	5		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	6		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	7		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna B Bluetooth (P_{Low})
	8		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna D Bluetooth (P_{Low})
	9	Antenna C WWAN ON	+ Antenna A Wi-Fi 2.4 GHz SISO		
	10		+ Antenna B Wi-Fi 2.4 GHz SISO		
	11		+ Antenna D Wi-Fi 2.4 GHz SISO (P_{Low})		
	12			+	Antenna B Bluetooth (P_{Low})
	13			+	Antenna D Bluetooth (P_{Low})
	14		+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	15		+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	16		+ Antenna A Wi-Fi 5 GHz SISO		
	17		+ Antenna B Wi-Fi 5 GHz SISO		
	18		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	19		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	20		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	21		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	22		+ Antenna A + B Wi-Fi 2.4 GHz MIMO		
	23		+ Antenna A + D Wi-Fi 2.4 GHz MIMO (P_{Low})		
	24		+ Antenna A + B Wi-Fi 5 GHz MIMO		
	25		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna B Bluetooth (P_{Low})
	26		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna D Bluetooth (P_{Low})
	27	Antenna D WWAN ON	+ Antenna A Wi-Fi 2.4 GHz SISO		
	28		+ Antenna B Wi-Fi 2.4 GHz SISO		
	29		+ Antenna D Wi-Fi 2.4 GHz SISO (P_{Low})		
	30			+	Antenna B Bluetooth (P_{Low})
	31			+	Antenna D Bluetooth (P_{Low})
	32		+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	33		+ Antenna A Wi-Fi 2.4 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	34		+ Antenna A Wi-Fi 5 GHz SISO		
	35		+ Antenna B Wi-Fi 5 GHz SISO		
	36		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	37		+ Antenna A Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	38		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna B Bluetooth (P_{Low})
	39		+ Antenna B Wi-Fi 5 GHz SISO	+	Antenna D Bluetooth (P_{Low})
	40		+ Antenna A + B Wi-Fi 2.4 GHz MIMO		
	41		+ Antenna A + D Wi-Fi 2.4 GHz MIMO (P_{Low})		
	42		+ Antenna A + B Wi-Fi 5 GHz MIMO		
	43		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna B Bluetooth (P_{Low})
	44		+ Antenna A + B Wi-Fi 5 GHz MIMO	+	Antenna D Bluetooth (P_{Low})

Notes:

1. Antenna D is for Wi-Fi 2.4GHz/Bluetooth only.
2. Antenna D uses Wi-Fi P_{Low} when cellular antenna is in active transmission.
3. Wi-Fi 2.4GHz Radio on Antenna B and Antenna D cannot transmit simultaneously with Bluetooth Radio.

Estimated SAR for Simultaneous Transmission SAR Analysis

Considerations for SAR estimation

- When standalone SAR test exclusion applies, standalone SAR must also be estimated to determine simultaneous transmission SAR test exclusion.
- Dedicated Host Approach criteria for SAR test exclusion is likewise applied to SAR estimation, with certain distinctions between test exclusion and SAR estimation:
 - When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied for SAR estimation; this is the same between test exclusion and SAR estimation calculations.
 - When the separation distance from the antenna to an adjacent edge is > 5 mm but ≤ 50 mm, the actual antenna-to-edge separation distance is applied for SAR estimation.
 - When the minimum test separation distance is > 50 mm, the estimated SAR value is 0.4 W/kg
- Please refer to Estimated SAR Tables to see which test positions are inherently compliant as they consist of only estimated SAR values for all applicable transmitters and consequently will always have sum of SAR values < 1.2 W/kg. Simultaneous transmission SAR analysis was therefore not performed for these test positions.

Estimated SAR for WWAN

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)						Estimated 1-g SAR Value (W/kg)					
			dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front
Antenna C																
Cellular	GPRS 2 Slots	848.8	23.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.168	0.400	0.400	
Cellular	GPRS 2 Slots	1909.8	19.30	21	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.094	0.400	0.400	
Cellular	W-CDMA 2	1907.6	13.50	22	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.099	0.400	0.400	
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.095	0.400	0.400	
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.168	0.400	0.400	
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.168	0.400	0.400	
Cellular	CDMA BC1	1908.75	13.50	22	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.099	0.400	0.400	
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.165	0.400	0.400	
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.095	0.400	0.400	
Cellular	LTE Band 2	1900	13.30	21	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.094	0.400	0.400	
Cellular	LTE Band 4	1754.3	13.80	24	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.103	0.400	0.400	
Cellular	LTE Band 5	844	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.167	0.400	0.400	
Cellular	LTE Band 7	2560	12.00	16	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.083	0.400	0.400	
Cellular	LTE Band 12	711	18.80	76	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.208	0.400	0.400	
Cellular	LTE Band 13	782	19.00	79	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.227	0.400	0.400	
Cellular	LTE Band 17	710	18.80	76	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.208	0.400	0.400	
Cellular	LTE Band 25	1905	13.30	21	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.094	0.400	0.400	
Cellular	LTE Band 26	821.3	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.165	0.400	0.400	
Cellular	LTE Band 27	815.5	17.50	56	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.164	0.400	0.400	
Cellular	LTE Band 30	2310	12.80	19	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.094	0.400	0.400	
Cellular	LTE Band 41	2680	14.50	28	4	3.7	40.7	226	93		-MEASURE	-MEASURE	0.149	0.400	0.400	
Antenna D																
Cellular	GPRS 2 Slots	848.8	24.50	70	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.210	
Cellular	GPRS 2 Slots	1909.8	20.00	25	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.112	
Cellular	W-CDMA 2	1907.6	13.80	24	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.108	
Cellular	W-CDMA 4	1752.6	13.50	22	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.095	
Cellular	W-CDMA 5	846.6	17.50	56	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.168	
Cellular	CDMA BC0	848.31	17.50	56	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.168	
Cellular	CDMA BC1	1908.75	13.80	24	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.108	
Cellular	CDMA BC10	823.1	17.50	56	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.165	
Cellular	CDMA BC15	1753.75	13.50	22	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.095	
Cellular	LTE Band 2	1900	13.80	24	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.108	
Cellular	LTE Band 4	1754.3	13.50	22	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.095	
Cellular	LTE Band 5	844	17.80	60	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.179	
Cellular	LTE Band 7	2560	11.80	15	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.078	
Cellular	LTE Band 12	711	19.00	79	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.217	
Cellular	LTE Band 13	782	19.00	79	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.227	
Cellular	LTE Band 17	710	19.00	79	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.216	
Cellular	LTE Band 25	1905	13.80	24	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.108	
Cellular	LTE Band 26	821.3	17.80	60	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.177	
Cellular	LTE Band 27	815.5	17.80	60	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.176	
Cellular	LTE Band 30	2310	12.50	18	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.089	
Cellular	LTE Band 41	2680	14.00	25	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.133	

Estimated SAR for WLAN

Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)						Estimated 1-g SAR Value (W/kg)					
		dBm	mW	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front	Rear	Edge 1	Edge 2	Edge 3	Edge 4	Front
Wi-Fi Antenna A															
Wi-Fi 2.4 GHz	2462	16.50	45	5	228.1	133.3	3.1	7.1		-MEASURE	0.400	0.400	-MEASURE	-MEASURE	
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	133.3	3.1	7.1		-MEASURE	0.400	0.400	-MEASURE	-MEASURE	
Wi-Fi 5.5 GHz	5700	16.00	40	5	228.1	133.3	3.1	7.1		-MEASURE	0.400	0.400	-MEASURE	-MEASURE	
Wi-Fi 5.8 GHz	5825	16.50	45	5	228.1	133.3	3.1	7.1		-MEASURE	0.400	0.400	-MEASURE	-MEASURE	
Wi-Fi Antenna B															
Wi-Fi 2.4 GHz	2462	16.00	40	5	228.1	7.1	3.1	133.3		-MEASURE	0.400	-MEASURE	-MEASURE	0.400	
Wi-Fi 5.3 GHz	5320	17.50	56	5	228.1	7.1	3.1	133.3		-MEASURE	0.400	-MEASURE	-MEASURE	0.400	
Wi-Fi 5.5 GHz	5700	16.50	45	5	228.1	7.1	3.1	133.3		-MEASURE	0.400	-MEASURE	-MEASURE	0.400	
Wi-Fi 5.8 GHz	5825	17.00	50	5	228.1	7.1	3.1	133.3		-MEASURE	0.400	-MEASURE	-MEASURE	0.400	
Wi-Fi Antenna D P _{High}															
Wi-Fi 2.4 GHz	2462	11.00	13	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.066	
Wi-Fi Antenna D P _{Low}															
Wi-Fi 2.4 GHz	2462	4.00	3	4	3.7	93	226	40.7		0.126	0.126	0.400	0.400	0.015	
Wi-Fi Antenna A + B															
Wi-Fi 2.4 GHz	2462	16.50	45	5	228.1	7.1	3.1	7.1		-MEASURE	0.400	-MEASURE	-MEASURE	-MEASURE	
Wi-Fi 5.3 GHz	5320	17.00	50	5	228.1	7.1	3.1	7.1		-MEASURE	0.400	-MEASURE	-MEASURE	-MEASURE	
Wi-Fi 5.5 GHz	5700	16.50	45	5	228.1	7.1	3.1	7.1		-MEASURE	0.400	-MEASURE	-MEASURE	-MEASURE	
Wi-Fi 5.8 GHz	5825	17.00	50	5	228.1	7.1	3.1	7.1		-MEASURE	0.400	-MEASURE	-MEASURE	-MEASURE	
Wi-Fi Antenna A + D P _{High}															
Wi-Fi 2.4 GHz	2462	16.50	45	4	3.7	93	3.1	7.1		-MEASURE	-MEASURE	0.400	-MEASURE	-MEASURE	
Wi-Fi Antenna A + D P _{Low}															
Wi-Fi 2.4 GHz	2462	16.50	45	4	3.7	93	3.1	7.1		-MEASURE	-MEASURE	0.400	-MEASURE	-MEASURE	
Bluetooth Antenna B High Power															
Bluetooth	2480	17.00	50	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.256	
Bluetooth Antenna B Low Power															
Bluetooth	2480	9.50	9	4	3.7	93	226	40.7		0.378	0.378	0.400	0.400	0.046	
Bluetooth Antenna D High Power															
Bluetooth	2480	12.00	16	4	3.7	93	226	40.7		-MEASURE	-MEASURE	0.400	0.400	0.082	
Bluetooth Antenna D Low Power															
Bluetooth	2480	5.00	3	4	3.7	93	226	40.7		0.126	0.126	0.400	0.400	0.015	

12.1. Sum of the SAR for Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① Wi-Fi 2.4GHz (Ant A)	② Bluetooth (Ant B)	③ Bluetooth (Ant D)	① + ②		① + ③	
					Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	0.071	0.068	1.173	0.139	No	1.244	No
	Edge 1	0.005	0.001	0.564	0.006	No	0.569	No
	Edge 2	0.400	0.130	0.400	0.530	No	0.800	No
	Edge 3	0.938	1.100	0.001	2.038	Yes	0.939	No
	Edge 4	0.116	0.400	0.044	0.516	No	0.160	No

SAR to Peak Location Separation Ratio (SPLSR)

Test Position	Standalone SAR (W/kg)		Σ 1-g SAR (W/kg)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)	Figure
	① DTS	② Bluetooth					
Rear	0.938	1.100	① + ② 2.038	125.4	0.02	No	1

12.2. Sum of the SAR for Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	①	②	③	④	⑤	① + ④		① + ⑤		② + ④		② + ⑤		③ + ④		③ + ⑤	
		Wi-Fi 5GHz (Ant A)	Wi-Fi 5GHz (Ant B)	Wi-Fi 5GHz MIMO	Bluetooth (Ant B)	Bluetooth (Ant D)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	0.163	0.157	0.114	0.010	0.221	0.173	No	0.384	No	0.167	No	0.378	No	0.123	No	0.335	No
	Edge 1	0.046	0.052	0.046	0.001	0.104	0.047	No	0.156	No	0.053	No	0.156	No	0.047	No	0.150	No
	Edge 2	0.400	0.186	0.144	0.025	0.400	0.425	No	0.586	No	0.211	No	0.586	No	0.169	No	0.544	No
	Edge 3	1.010	0.991	0.991	0.204	0.001	1.214	No	0.992	No	1.195	No	0.992	No	1.195	No	0.992	No
	Edge 4	0.254	0.400	0.187	0.400	0.006	0.654	No	0.406	No	0.800	No	0.406	No	0.587	No	0.193	No

12.3. Sum of the SAR for GSM850 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
		Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.068	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.157	No	1.277	No	1.149	No	1.360	No	1.136	No	1.251	No
	Edge 1	0.746	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.753	No	0.868	No	0.752	No	0.855	No	0.759	No	0.876	No
	Edge 2	0.062	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.186	No	0.462	No	0.487	No	0.862	No	0.206	No	0.063	No
	Edge 3	0.009	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.010	No	0.010	No	1.151	No	0.948	No	1.003	No	1.030	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.4. Sum of the SAR for GSM850 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
		Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.030	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.119	No	1.240	No	1.111	No	1.323	No	1.098	No	1.213	No
	Edge 1	0.713	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.719	No	0.834	No	0.719	No	0.822	No	0.726	No	0.843	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.010	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.011	No	0.011	No	1.152	No	0.949	No	1.004	No	1.031	No
	Edge 4	0.094	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.494	No	0.098	No	0.610	No	0.216	No	0.215	No	0.220	No

12.5. Sum of the SAR for GSM850 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.068	0.163	0.157	0.114	0.010	0.221	1.241	No	1.452	No	1.235	No	1.446	No	1.191	No	1.403	No
	Edge 1	0.746	0.046	0.052	0.046	0.001	0.104	0.793	No	0.896	No	0.799	No	0.902	No	0.793	No	0.896	No
	Edge 2	0.062	0.400	0.186	0.144	0.025	0.400	0.487	No	0.862	No	0.273	No	0.648	No	0.231	No	0.606	No
	Edge 3	0.009	1.010	0.991	0.991	0.204	0.001	1.223	No	1.020	No	1.204	No	1.001	No	1.204	No	1.001	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.6. Sum of the SAR for GSM850 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.030	0.163	0.157	0.114	0.010	0.221	1.203	No	1.415	No	1.197	No	1.409	No	1.154	No	1.365	No
	Edge 1	0.713	0.046	0.052	0.046	0.001	0.104	0.760	No	0.863	No	0.766	No	0.869	No	0.760	No	0.863	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.010	1.010	0.991	0.991	0.204	0.001	1.224	No	1.021	No	1.205	No	1.002	No	1.205	No	1.002	No
	Edge 4	0.094	0.254	0.400	0.187	0.400	0.006	0.748	No	0.354	No	0.894	No	0.500	No	0.681	No	0.287	No

12.7. Sum of the SAR for GSM1900 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.239	No	1.359	No	1.231	No	1.442	No	1.218	No	1.333	No
	Edge 1	0.677	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.683	No	0.798	No	0.683	No	0.786	No	0.690	No	0.807	No
	Edge 2	0.066	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.190	No	0.466	No	0.491	No	0.866	No	0.210	No	0.067	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.8. Sum of the SAR for GSM1900 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.120	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.209	No	1.329	No	1.201	No	1.412	No	1.188	No	1.303	No
	Edge 1	0.812	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.818	No	0.933	No	0.818	No	0.921	No	0.825	No	0.942	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.060	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.460	No	0.065	No	0.577	No	0.182	No	0.182	No	0.186	No

12.9. Sum of the SAR for GSM1900 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.163	0.157	0.114	0.010	0.221	1.323	No	1.534	No	1.317	No	1.528	No	1.273	No	1.485	No
	Edge 1	0.677	0.046	0.052	0.046	0.001	0.104	0.724	No	0.827	No	0.730	No	0.833	No	0.724	No	0.827	No
	Edge 2	0.066	0.400	0.186	0.144	0.025	0.400	0.491	No	0.866	No	0.277	No	0.652	No	0.235	No	0.610	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.10. Sum of the SAR for GSM1900 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.120	0.163	0.157	0.114	0.010	0.221	1.293	No	1.504	No	1.287	No	1.498	No	1.243	No	1.455	No
	Edge 1	0.812	0.046	0.052	0.046	0.001	0.104	0.859	No	0.962	No	0.865	No	0.968	No	0.859	No	0.962	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.060	0.254	0.400	0.187	0.400	0.006	0.715	No	0.321	No	0.860	No	0.466	No	0.648	No	0.254	No

12.11. Sum of the SAR for WCDMA Band II on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.269	No	1.389	No	1.261	No	1.472	No	1.248	No	1.363	No
	Edge 1	0.783	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.789	No	0.904	No	0.789	No	0.892	No	0.796	No	0.913	No
	Edge 2	0.077	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.201	No	0.477	No	0.502	No	0.877	No	0.221	No	0.078	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.12. Sum of the SAR for WCDMA Band II on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.160	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.249	No	1.369	No	1.241	No	1.452	No	1.228	No	1.343	No
	Edge 1	0.744	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.750	No	0.865	No	0.750	No	0.853	No	0.757	No	0.874	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.058	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.458	No	0.063	No	0.575	No	0.180	No	0.180	No	0.184	No

12.13. Sum of the SAR for WCDMA Band II on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.115	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.204	No	1.325	No	1.196	No	1.408	No	1.183	No	1.298	No
	Edge 1	0.851	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.858	No	0.973	No	0.857	No	0.961	No	0.864	No	0.981	No
	Edge 2	0.055	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.179	No	0.455	No	0.480	No	0.855	No	0.199	No	0.056	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.14. Sum of the SAR for WCDMA Band II on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.160	0.163	0.157	0.114	0.010	0.221	1.333	No	1.544	No	1.327	No	1.538	No	1.283	No	1.495	No
	Edge 1	0.744	0.046	0.052	0.046	0.001	0.104	0.791	No	0.894	No	0.797	No	0.900	No	0.791	No	0.894	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.058	0.254	0.400	0.187	0.400	0.006	0.713	No	0.319	No	0.858	No	0.464	No	0.646	No	0.252	No

12.15. Sum of the SAR for WCDMA Band IV on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.115	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.204	No	1.325	No	1.196	No	1.408	No	1.183	No	1.298	No
	Edge 1	0.851	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.858	No	0.973	No	0.857	No	0.961	No	0.864	No	0.981	No
	Edge 2	0.055	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.179	No	0.455	No	0.480	No	0.855	No	0.199	No	0.056	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.16. Sum of the SAR for WCDMA Band IV on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.259	No	1.379	No	1.251	No	1.462	No	1.238	No	1.353	No
	Edge 1	0.806	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.812	No	0.927	No	0.812	No	0.915	No	0.819	No	0.936	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.072	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.472	No	0.077	No	0.589	No	0.195	No	0.194	No	0.198	No

12.17. Sum of the SAR for WCDMA Band IV on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.115	0.163	0.157	0.114	0.010	0.221	1.288	No	1.500	No	1.282	No	1.494	No	1.239	No	1.450	No
	Edge 1	0.851	0.046	0.052	0.046	0.001	0.104	0.898	No	1.001	No	0.904	No	1.007	No	0.898	No	1.001	No
	Edge 2	0.055	0.400	0.186	0.144	0.025	0.400	0.480	No	0.855	No	0.266	No	0.641	No	0.224	No	0.599	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.18. Sum of the SAR for WCDMA Band IV on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.163	0.157	0.114	0.010	0.221	1.343	No	1.554	No	1.337	No	1.548	No	1.293	No	1.505	No
	Edge 1	0.806	0.046	0.052	0.046	0.001	0.104	0.853	No	0.956	No	0.859	No	0.962	No	0.853	No	0.956	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.072	0.254	0.400	0.187	0.400	0.006	0.727	No	0.333	No	0.872	No	0.478	No	0.660	No	0.266	No

12.19. Sum of the SAR for WCDMA Band V on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.141	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.230	No	1.351	No	1.222	No	1.434	No	1.209	No	1.324	No
	Edge 1	0.903	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.909	No	1.024	No	0.909	No	1.012	No	0.915	No	1.033	No
	Edge 2	0.010	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.134	No	0.410	No	0.435	No	0.810	No	0.154	No	0.011	No
	Edge 3	0.024	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.025	No	0.025	No	1.167	No	0.963	No	1.018	No	1.045	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.20. Sum of the SAR for WCDMA Band V on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.110	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.199	No	1.319	No	1.191	No	1.402	No	1.178	No	1.293	No
	Edge 1	0.797	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.803	No	0.918	No	0.803	No	0.906	No	0.809	No	0.927	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.018	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.019	No	0.019	No	1.160	No	0.957	No	1.011	No	1.039	No
	Edge 4	0.097	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.497	No	0.102	No	0.613	No	0.219	No	0.219	No	0.223	No

12.21. Sum of the SAR for WCDMA Band V on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.141	0.163	0.157	0.114	0.010	0.221	1.314	No	1.526	No	1.308	No	1.520	No	1.265	No	1.476	No
	Edge 1	0.903	0.046	0.052	0.046	0.001	0.104	0.949	No	1.053	No	0.955	No	1.059	No	0.949	No	1.052	No
	Edge 2	0.010	0.400	0.186	0.144	0.025	0.400	0.435	No	0.810	No	0.221	No	0.596	No	0.179	No	0.554	No
	Edge 3	0.024	1.010	0.991	0.991	0.204	0.001	1.238	No	1.035	No	1.219	No	1.016	No	1.220	No	1.016	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.22. Sum of the SAR for WCDMA Band V on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.110	0.163	0.157	0.114	0.010	0.221	1.283	No	1.494	No	1.277	No	1.488	No	1.233	No	1.445	No
	Edge 1	0.797	0.046	0.052	0.046	0.001	0.104	0.844	No	0.947	No	0.850	No	0.953	No	0.843	No	0.947	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.018	1.010	0.991	0.991	0.204	0.001	1.232	No	1.028	No	1.212	No	1.009	No	1.213	No	1.010	No
	Edge 4	0.097	0.254	0.400	0.187	0.400	0.006	0.752	No	0.358	No	0.897	No	0.503	No	0.685	No	0.291	No

12.23. Sum of the SAR for CDMA BC0 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.018	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.106	No	1.227	No	1.098	No	1.310	No	1.086	No	1.201	No
	Edge 1	0.738	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.745	No	0.860	No	0.744	No	0.848	No	0.751	No	0.868	No
	Edge 2	0.073	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.197	No	0.473	No	0.497	No	0.873	No	0.216	No	0.074	No
	Edge 3	0.015	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.016	No	0.016	No	1.158	No	0.954	No	1.009	No	1.036	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.24. Sum of the SAR for CDMA BC0 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.014	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.103	No	1.224	No	1.095	No	1.307	No	1.082	No	1.197	No
	Edge 1	0.758	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.764	No	0.879	No	0.764	No	0.867	No	0.770	No	0.888	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.016	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.017	No	0.017	No	1.158	No	0.955	No	1.009	No	1.037	No
	Edge 4	0.068	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.468	No	0.073	No	0.584	No	0.190	No	0.190	No	0.194	No

12.25. Sum of the SAR for CDMA BC0 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.018	0.163	0.157	0.114	0.010	0.221	1.190	No	1.402	No	1.184	No	1.396	No	1.141	No	1.353	No
	Edge 1	0.738	0.046	0.052	0.046	0.001	0.104	0.785	No	0.888	No	0.791	No	0.894	No	0.785	No	0.888	No
	Edge 2	0.073	0.400	0.186	0.144	0.025	0.400	0.497	No	0.873	No	0.283	No	0.659	No	0.241	No	0.617	No
	Edge 3	0.015	1.010	0.991	0.991	0.204	0.001	1.229	No	1.026	No	1.210	No	1.007	No	1.211	No	1.007	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.26. Sum of the SAR for CDMA BC0 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.014	0.163	0.157	0.114	0.010	0.221	1.187	No	1.399	No	1.181	No	1.393	No	1.138	No	1.349	No
	Edge 1	0.758	0.046	0.052	0.046	0.001	0.104	0.804	No	0.908	No	0.810	No	0.914	No	0.804	No	0.907	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.016	1.010	0.991	0.991	0.204	0.001	1.230	No	1.027	No	1.210	No	1.007	No	1.211	No	1.008	No
	Edge 4	0.068	0.254	0.400	0.187	0.400	0.006	0.722	No	0.328	No	0.868	No	0.474	No	0.656	No	0.262	No

12.27. Sum of the SAR for CDMA BC1 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.025	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.114	No	1.235	No	1.106	No	1.318	No	1.093	No	1.208	No
	Edge 1	0.791	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.797	No	0.912	No	0.797	No	0.900	No	0.804	No	0.921	No
	Edge 2	0.079	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.203	No	0.479	No	0.503	No	0.879	No	0.222	No	0.080	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.28. Sum of the SAR for CDMA BC1 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.028	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.117	No	1.238	No	1.109	No	1.321	No	1.096	No	1.211	No
	Edge 1	0.796	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.802	No	0.918	No	0.802	No	0.905	No	0.809	No	0.926	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.054	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.454	No	0.058	No	0.570	No	0.176	No	0.175	No	0.179	No

12.29. Sum of the SAR for CDMA BC1 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.025	0.163	0.157	0.114	0.010	0.221	1.198	No	1.410	No	1.192	No	1.404	No	1.148	No	1.360	No
	Edge 1	0.791	0.046	0.052	0.046	0.001	0.104	0.838	No	0.941	No	0.844	No	0.947	No	0.838	No	0.941	No
	Edge 2	0.079	0.400	0.186	0.144	0.025	0.400	0.503	No	0.879	No	0.289	No	0.665	No	0.247	No	0.623	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.30. Sum of the SAR for CDMA BC1 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.028	0.163	0.157	0.114	0.010	0.221	1.201	No	1.413	No	1.195	No	1.407	No	1.152	No	1.364	No
	Edge 1	0.796	0.046	0.052	0.046	0.001	0.104	0.843	No	0.946	No	0.849	No	0.952	No	0.843	No	0.946	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.054	0.254	0.400	0.187	0.400	0.006	0.708	No	0.314	No	0.854	No	0.460	No	0.641	No	0.247	No

12.31. Sum of the SAR for CDMA BC10 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.087	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.176	No	1.296	No	1.168	No	1.379	No	1.155	No	1.270	No
	Edge 1	0.766	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.772	No	0.887	No	0.772	No	0.875	No	0.778	No	0.896	No
	Edge 2	0.087	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.211	No	0.487	No	0.512	No	0.887	No	0.231	No	0.088	No
	Edge 3	0.021	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.022	No	0.022	No	1.163	No	0.960	No	1.015	No	1.042	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.32. Sum of the SAR for CDMA BC10 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.010	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.099	No	1.220	No	1.091	No	1.303	No	1.078	No	1.193	No
	Edge 1	0.705	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.711	No	0.827	No	0.711	No	0.814	No	0.718	No	0.835	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.012	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.013	No	0.013	No	1.155	No	0.952	No	1.006	No	1.033	No
	Edge 4	0.067	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.467	No	0.072	No	0.584	No	0.189	No	0.189	No	0.193	No

12.33. Sum of the SAR for CDMA BC10 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.087	0.163	0.157	0.114	0.010	0.221	1.260	No	1.471	No	1.254	No	1.465	No	1.210	No	1.422	No
	Edge 1	0.766	0.046	0.052	0.046	0.001	0.104	0.813	No	0.916	No	0.819	No	0.922	No	0.812	No	0.916	No
	Edge 2	0.087	0.400	0.186	0.144	0.025	0.400	0.512	No	0.887	No	0.298	No	0.673	No	0.256	No	0.631	No
	Edge 3	0.021	1.010	0.991	0.991	0.204	0.001	1.235	No	1.032	No	1.216	No	1.012	No	1.216	No	1.013	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.34. Sum of the SAR for CDMA BC10 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.010	0.163	0.157	0.114	0.010	0.221	1.183	No	1.395	No	1.177	No	1.389	No	1.134	No	1.346	No
	Edge 1	0.705	0.046	0.052	0.046	0.001	0.104	0.752	No	0.855	No	0.758	No	0.861	No	0.752	No	0.855	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.012	1.010	0.991	0.991	0.204	0.001	1.226	No	1.023	No	1.207	No	1.004	No	1.208	No	1.005	No
	Edge 4	0.067	0.254	0.400	0.187	0.400	0.006	0.722	No	0.328	No	0.867	No	0.473	No	0.655	No	0.261	No

12.35. Sum of the SAR for CDMA BC15 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.239	No	1.359	No	1.231	No	1.442	No	1.218	No	1.333	No
	Edge 1	0.875	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.881	No	0.996	No	0.881	No	0.984	No	0.888	No	1.005	No
	Edge 2	0.076	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.200	No	0.476	No	0.501	No	0.876	No	0.220	No	0.077	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.36. Sum of the SAR for CDMA BC15 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.239	No	1.359	No	1.231	No	1.442	No	1.218	No	1.333	No
	Edge 1	0.752	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.758	No	0.873	No	0.758	No	0.861	No	0.765	No	0.882	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.065	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.465	No	0.069	No	0.581	No	0.187	No	0.186	No	0.191	No

12.37. Sum of the SAR for CDMA BC15 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.163	0.157	0.114	0.010	0.221	1.323	No	1.534	No	1.317	No	1.528	No	1.273	No	1.485	No
	Edge 1	0.875	0.046	0.052	0.046	0.001	0.104	0.922	No	1.025	No	0.928	No	1.031	No	0.922	No	1.025	No
	Edge 2	0.076	0.400	0.186	0.144	0.025	0.400	0.501	No	0.876	No	0.287	No	0.662	No	0.245	No	0.620	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.38. Sum of the SAR for CDMA BC15 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.150	0.163	0.157	0.114	0.010	0.221	1.323	No	1.534	No	1.317	No	1.528	No	1.273	No	1.485	No
	Edge 1	0.752	0.046	0.052	0.046	0.001	0.104	0.799	No	0.902	No	0.805	No	0.908	No	0.799	No	0.902	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.065	0.254	0.400	0.187	0.400	0.006	0.719	No	0.325	No	0.865	No	0.471	No	0.652	No	0.258	No

12.39. Sum of the SAR for LTE Band 2 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4 GHz (Ant B)	③ Wi-Fi 2.4 GHz (Ant D)	④ Wi-Fi 2.4 GHz (Ant A)	⑤ Wi-Fi 2.4 GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4 GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.157	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.246	No	1.367	No	1.238	No	1.450	No	1.225	No	1.340	No
	Edge 1	0.875	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.882	No	0.997	No	0.881	No	0.985	No	0.888	No	1.005	No
	Edge 2	0.084	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.207	No	0.484	No	0.508	No	0.884	No	0.227	No	0.085	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.40. Sum of the SAR for LTE Band 2 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4 GHz (Ant B)	③ Wi-Fi 2.4 GHz (Ant D)	④ Wi-Fi 2.4 GHz (Ant A)	⑤ Wi-Fi 2.4 GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4 GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.140	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.229	No	1.349	No	1.221	No	1.432	No	1.208	No	1.323	No
	Edge 1	0.849	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.856	No	0.971	No	0.855	No	0.959	No	0.862	No	0.979	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.061	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.461	No	0.065	No	0.577	No	0.183	No	0.182	No	0.187	No

12.41. Sum of the SAR for LTE Band 2 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.157	0.163	0.157	0.114	0.010	0.221	1.330	No	1.542	No	1.324	No	1.536	No	1.281	No	1.492	No
	Edge 1	0.875	0.046	0.052	0.046	0.001	0.104	0.922	No	1.026	No	0.928	No	1.032	No	0.922	No	1.025	No
	Edge 2	0.084	0.400	0.186	0.144	0.025	0.400	0.508	No	0.884	No	0.294	No	0.670	No	0.252	No	0.628	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.42. Sum of the SAR for LTE Band 2 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.140	0.163	0.157	0.114	0.010	0.221	1.313	No	1.524	No	1.307	No	1.518	No	1.263	No	1.475	No
	Edge 1	0.849	0.046	0.052	0.046	0.001	0.104	0.896	No	0.999	No	0.902	No	1.005	No	0.896	No	0.999	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.061	0.254	0.400	0.187	0.400	0.006	0.715	No	0.321	No	0.861	No	0.467	No	0.648	No	0.254	No

12.43. Sum of the SAR for LTE Band 4 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.187	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.276	No	1.396	No	1.268	No	1.480	No	1.255	No	1.370	No
	Edge 1	0.852	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.859	No	0.974	No	0.858	No	0.962	No	0.865	No	0.982	No
	Edge 2	0.069	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.193	No	0.469	No	0.494	No	0.869	No	0.213	No	0.070	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.44. Sum of the SAR for LTE Band 4 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.259	No	1.379	No	1.251	No	1.462	No	1.238	No	1.353	No
	Edge 1	0.817	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.823	No	0.938	No	0.823	No	0.926	No	0.830	No	0.947	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.020	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.420	No	0.024	No	0.536	No	0.142	No	0.141	No	0.146	No

12.45. Sum of the SAR for LTE Band 4 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.187	0.163	0.157	0.114	0.010	0.221	1.360	No	1.572	No	1.354	No	1.566	No	1.310	No	1.522	No
	Edge 1	0.852	0.046	0.052	0.046	0.001	0.104	0.899	No	1.002	No	0.905	No	1.008	No	0.899	No	1.002	No
	Edge 2	0.069	0.400	0.186	0.144	0.025	0.400	0.494	No	0.869	No	0.280	No	0.655	No	0.238	No	0.613	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.46. Sum of the SAR for LTE Band 4 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.163	0.157	0.114	0.010	0.221	1.343	No	1.554	No	1.337	No	1.548	No	1.293	No	1.505	No
	Edge 1	0.817	0.046	0.052	0.046	0.001	0.104	0.864	No	0.967	No	0.870	No	0.973	No	0.864	No	0.967	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.020	0.254	0.400	0.187	0.400	0.006	0.674	No	0.280	No	0.820	No	0.426	No	0.607	No	0.213	No

12.47. Sum of the SAR for LTE Band 5 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.086	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.175	No	1.296	No	1.167	No	1.379	No	1.154	No	1.269	No
	Edge 1	0.936	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.942	No	1.057	No	0.942	No	1.045	No	0.948	No	1.066	No
	Edge 2	0.108	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.232	No	0.508	No	0.533	No	0.908	No	0.252	No	0.109	No
	Edge 3	0.044	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.045	No	0.045	No	1.186	No	0.983	No	1.037	No	1.065	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.48. Sum of the SAR for LTE Band 5 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.072	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.160	No	1.281	No	1.152	No	1.364	No	1.140	No	1.255	No
	Edge 1	0.871	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.878	No	0.993	No	0.877	No	0.980	No	0.884	No	1.001	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.010	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.011	No	0.011	No	1.152	No	0.949	No	1.004	No	1.031	No
	Edge 4	0.119	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.519	No	0.123	No	0.635	No	0.241	No	0.240	No	0.245	No

12.49. Sum of the SAR for LTE Band 5 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.086	0.163	0.157	0.114	0.010	0.221	1.259	No	1.471	No	1.253	No	1.465	No	1.209	No	1.421	No
	Edge 1	0.936	0.046	0.052	0.046	0.001	0.104	0.983	No	1.086	No	0.989	No	1.092	No	0.982	No	1.086	No
	Edge 2	0.108	0.400	0.186	0.144	0.025	0.400	0.533	No	0.908	No	0.319	No	0.694	No	0.277	No	0.652	No
	Edge 3	0.044	1.010	0.991	0.991	0.204	0.001	1.258	No	1.055	No	1.239	No	1.035	No	1.239	No	1.036	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.50. Sum of the SAR for LTE Band 5 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.072	0.163	0.157	0.114	0.010	0.221	1.244	No	1.456	No	1.238	No	1.450	No	1.195	No	1.407	No
	Edge 1	0.871	0.046	0.052	0.046	0.001	0.104	0.918	No	1.021	No	0.924	No	1.027	No	0.918	No	1.021	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.010	1.010	0.991	0.991	0.204	0.001	1.224	No	1.021	No	1.205	No	1.002	No	1.205	No	1.002	No
	Edge 4	0.119	0.254	0.400	0.187	0.400	0.006	0.773	No	0.379	No	0.919	No	0.525	No	0.706	No	0.312	No

12.51. Sum of the SAR for LTE Band 7 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.141	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.230	No	1.351	No	1.222	No	1.434	No	1.209	No	1.324	No
	Edge 1	0.737	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.744	No	0.859	No	0.743	No	0.847	No	0.750	No	0.867	No
	Edge 2	0.106	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.230	No	0.506	No	0.530	No	0.906	No	0.249	No	0.107	No
	Edge 3	0.033	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.034	No	0.034	No	1.176	No	0.972	No	1.027	No	1.054	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.52. Sum of the SAR for LTE Band 7 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.104	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.192	No	1.313	No	1.184	No	1.396	No	1.172	No	1.287	No
	Edge 1	0.754	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.760	No	0.875	No	0.760	No	0.863	No	0.767	No	0.884	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.019	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.020	No	0.020	No	1.162	No	0.959	No	1.013	No	1.040	No
	Edge 4	0.102	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.502	No	0.106	No	0.618	No	0.224	No	0.223	No	0.228	No

12.53. Sum of the SAR for LTE Band 7 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.141	0.163	0.157	0.114	0.010	0.221	1.314	No	1.526	No	1.308	No	1.520	No	1.265	No	1.476	No
	Edge 1	0.737	0.046	0.052	0.046	0.001	0.104	0.784	No	0.887	No	0.790	No	0.893	No	0.784	No	0.887	No
	Edge 2	0.106	0.400	0.186	0.144	0.025	0.400	0.530	No	0.906	No	0.316	No	0.692	No	0.274	No	0.650	No
	Edge 3	0.033	1.010	0.991	0.991	0.204	0.001	1.247	No	1.044	No	1.228	No	1.025	No	1.229	No	1.025	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.54. Sum of the SAR for LTE Band 7 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.104	0.163	0.157	0.114	0.010	0.221	1.276	No	1.488	No	1.270	No	1.482	No	1.227	No	1.439	No
	Edge 1	0.754	0.046	0.052	0.046	0.001	0.104	0.801	No	0.904	No	0.807	No	0.910	No	0.801	No	0.904	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.019	1.010	0.991	0.991	0.204	0.001	1.233	No	1.030	No	1.214	No	1.011	No	1.215	No	1.012	No
	Edge 4	0.102	0.254	0.400	0.187	0.400	0.006	0.756	No	0.362	No	0.902	No	0.508	No	0.689	No	0.295	No

12.55. Sum of the SAR for LTE Band 12 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.008	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.097	No	1.218	No	1.089	No	1.301	No	1.076	No	1.191	No
	Edge 1	0.600	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.606	No	0.722	No	0.606	No	0.709	No	0.613	No	0.730	No
	Edge 2	0.050	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.174	No	0.450	No	0.475	No	0.850	No	0.194	No	0.051	No
	Edge 3	0.023	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.024	No	0.024	No	1.165	No	0.962	No	1.016	No	1.043	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.56. Sum of the SAR for LTE Band 12 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.109	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.197	No	1.318	No	1.189	No	1.401	No	1.177	No	1.292	No
	Edge 1	0.736	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.742	No	0.858	No	0.742	No	0.845	No	0.749	No	0.866	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.026	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.027	No	0.027	No	1.169	No	0.965	No	1.020	No	1.047	No
	Edge 4	0.075	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.475	No	0.080	No	0.591	No	0.197	No	0.197	No	0.201	No

12.57. Sum of the SAR for LTE Band 12 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.008	0.163	0.157	0.114	0.010	0.221	1.181	No	1.393	No	1.175	No	1.387	No	1.132	No	1.343	No
	Edge 1	0.600	0.046	0.052	0.046	0.001	0.104	0.647	No	0.750	No	0.653	No	0.756	No	0.647	No	0.750	No
	Edge 2	0.050	0.400	0.186	0.144	0.025	0.400	0.475	No	0.850	No	0.261	No	0.636	No	0.219	No	0.594	No
	Edge 3	0.023	1.010	0.991	0.991	0.204	0.001	1.237	No	1.033	No	1.217	No	1.014	No	1.218	No	1.015	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.58. Sum of the SAR for LTE Band 12 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.109	0.163	0.157	0.114	0.010	0.221	1.281	No	1.493	No	1.275	No	1.487	No	1.232	No	1.444	No
	Edge 1	0.736	0.046	0.052	0.046	0.001	0.104	0.783	No	0.886	No	0.789	No	0.892	No	0.783	No	0.886	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.026	1.010	0.991	0.991	0.204	0.001	1.240	No	1.037	No	1.221	No	1.018	No	1.222	No	1.018	No
	Edge 4	0.075	0.254	0.400	0.187	0.400	0.006	0.730	No	0.336	No	0.875	No	0.481	No	0.663	No	0.269	No

12.59. Sum of the SAR for LTE Band 13 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.049	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.138	No	1.259	No	1.130	No	1.342	No	1.117	No	1.232	No
	Edge 1	0.910	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.917	No	1.032	No	0.916	No	1.020	No	0.923	No	1.040	No
	Edge 2	0.132	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.256	No	0.532	No	0.556	No	0.932	No	0.275	No	0.133	No
	Edge 3	0.021	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.022	No	0.022	No	1.163	No	0.960	No	1.015	No	1.042	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.60. Sum of the SAR for LTE Band 13 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.047	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.136	No	1.257	No	1.128	No	1.340	No	1.115	No	1.230	No
	Edge 1	0.797	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.803	No	0.919	No	0.803	No	0.906	No	0.810	No	0.927	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.024	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.025	No	0.025	No	1.166	No	0.963	No	1.017	No	1.045	No
	Edge 4	0.126	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.526	No	0.131	No	0.642	No	0.248	No	0.248	No	0.252	No

12.61. Sum of the SAR for LTE Band 13 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.049	0.163	0.157	0.114	0.010	0.221	1.222	No	1.434	No	1.216	No	1.428	No	1.173	No	1.384	No
	Edge 1	0.910	0.046	0.052	0.046	0.001	0.104	0.957	No	1.060	No	0.963	No	1.066	No	0.957	No	1.060	No
	Edge 2	0.132	0.400	0.186	0.144	0.025	0.400	0.556	No	0.932	No	0.342	No	0.718	No	0.300	No	0.676	No
	Edge 3	0.021	1.010	0.991	0.991	0.204	0.001	1.235	No	1.032	No	1.216	No	1.012	No	1.216	No	1.013	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.62. Sum of the SAR for LTE Band 13 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + 2 + 5		① + 2 + 6		① + 3 + 5		① + 3 + 6		① + 4 + 5		① + 4 + 6	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.047	0.163	0.157	0.114	0.010	0.221	1.220	No	1.432	No	1.214	No	1.426	No	1.171	No	1.382	No
	Edge 1	0.797	0.046	0.052	0.046	0.001	0.104	0.844	No	0.947	No	0.850	No	0.953	No	0.844	No	0.947	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.024	1.010	0.991	0.991	0.204	0.001	1.238	No	1.034	No	1.218	No	1.015	No	1.219	No	1.016	No
	Edge 4	0.126	0.254	0.400	0.187	0.400	0.006	0.781	No	0.387	No	0.926	No	0.532	No	0.714	No	0.320	No

12.63. Sum of the SAR for LTE Band 17 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + 2		① + 3		① + 4 + 7		① + 4 + 8		① + 5		① + 6	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.060	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.149	No	1.270	No	1.141	No	1.353	No	1.128	No	1.243	No
	Edge 1	0.647	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.654	No	0.769	No	0.653	No	0.757	No	0.660	No	0.777	No
	Edge 2	0.058	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.182	No	0.458	No	0.483	No	0.858	No	0.202	No	0.059	No
	Edge 3	0.020	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.021	No	0.021	No	1.162	No	0.959	No	1.014	No	1.041	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.64. Sum of the SAR for LTE Band 17 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + 2		① + 3		① + 4 + 7		① + 4 + 8		① + 5		① + 6	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.038	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.127	No	1.248	No	1.119	No	1.331	No	1.106	No	1.221	No
	Edge 1	0.802	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.808	No	0.924	No	0.808	No	0.911	No	0.815	No	0.932	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.020	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.021	No	0.021	No	1.162	No	0.959	No	1.014	No	1.041	No
	Edge 4	0.097	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.497	No	0.101	No	0.613	No	0.219	No	0.218	No	0.222	No

12.65. Sum of the SAR for LTE Band 17 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.060	0.163	0.157	0.114	0.010	0.221	1.233	No	1.445	No	1.227	No	1.439	No	1.184	No	1.395	No
	Edge 1	0.647	0.046	0.052	0.046	0.001	0.104	0.694	No	0.797	No	0.700	No	0.803	No	0.694	No	0.797	No
	Edge 2	0.058	0.400	0.186	0.144	0.025	0.400	0.483	No	0.858	No	0.269	No	0.644	No	0.227	No	0.602	No
	Edge 3	0.020	1.010	0.991	0.991	0.204	0.001	1.234	No	1.031	No	1.215	No	1.012	No	1.215	No	1.012	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.66. Sum of the SAR for LTE Band 17 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.038	0.163	0.157	0.114	0.010	0.221	1.211	No	1.423	No	1.205	No	1.417	No	1.162	No	1.373	No
	Edge 1	0.802	0.046	0.052	0.046	0.001	0.104	0.849	No	0.952	No	0.855	No	0.958	No	0.849	No	0.952	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.020	1.010	0.991	0.991	0.204	0.001	1.234	No	1.031	No	1.215	No	1.012	No	1.215	No	1.012	No
	Edge 4	0.097	0.254	0.400	0.187	0.400	0.006	0.751	No	0.357	No	0.897	No	0.503	No	0.684	No	0.290	No

12.67. Sum of the SAR for LTE Band 25 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.189	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.278	No	1.399	No	1.270	No	1.482	No	1.257	No	1.372	No
	Edge 1	0.911	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.917	No	1.032	No	0.917	No	1.020	No	0.923	No	1.041	No
	Edge 2	0.109	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.233	No	0.509	No	0.534	No	0.909	No	0.253	No	0.110	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.68. Sum of the SAR for LTE Band 25 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.190	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.279	No	1.399	No	1.271	No	1.482	No	1.258	No	1.373	No
	Edge 1	0.921	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.927	No	1.042	No	0.927	No	1.030	No	0.934	No	1.051	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.071	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.471	No	0.076	No	0.587	No	0.193	No	0.193	No	0.197	No

12.69. Sum of the SAR for LTE Band 25 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.189	0.163	0.157	0.114	0.010	0.221	1.362	No	1.574	No	1.356	No	1.568	No	1.313	No	1.524	No
	Edge 1	0.911	0.046	0.052	0.046	0.001	0.104	0.958	No	1.061	No	0.964	No	1.067	No	0.957	No	1.061	No
	Edge 2	0.109	0.400	0.186	0.144	0.025	0.400	0.534	No	0.909	No	0.320	No	0.695	No	0.278	No	0.653	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.70. Sum of the SAR for LTE Band 25 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.190	0.163	0.157	0.114	0.010	0.221	1.363	No	1.574	No	1.357	No	1.568	No	1.313	No	1.525	No
	Edge 1	0.921	0.046	0.052	0.046	0.001	0.104	0.968	No	1.071	No	0.974	No	1.077	No	0.968	No	1.071	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.071	0.254	0.400	0.187	0.400	0.006	0.726	No	0.331	No	0.871	No	0.477	No	0.659	No	0.265	No

12.71. Sum of the SAR for LTE Band 26 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.269	No	1.389	No	1.261	No	1.472	No	1.248	No	1.363	No
	Edge 1	0.972	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.978	No	1.093	No	0.978	No	1.081	No	0.984	No	1.102	No
	Edge 2	0.092	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.216	No	0.492	No	0.517	No	0.892	No	0.236	No	0.093	No
	Edge 3	0.023	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.025	No	0.024	No	1.166	No	0.963	No	1.017	No	1.044	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.72. Sum of the SAR for LTE Band 26 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.130	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.219	No	1.339	No	1.211	No	1.422	No	1.198	No	1.313	No
	Edge 1	0.944	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.950	No	1.065	No	0.950	No	1.053	No	0.957	No	1.074	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.014	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.015	No	0.015	No	1.156	No	0.953	No	1.007	No	1.035	No
	Edge 4	0.080	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.480	No	0.085	No	0.596	No	0.202	No	0.202	No	0.206	No

12.73. Sum of the SAR for LTE Band 26 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.163	0.157	0.114	0.010	0.221	1.353	No	1.564	No	1.347	No	1.558	No	1.303	No	1.515	No
	Edge 1	0.972	0.046	0.052	0.046	0.001	0.104	1.019	No	1.122	No	1.025	No	1.128	No	1.018	No	1.122	No
	Edge 2	0.092	0.400	0.186	0.144	0.025	0.400	0.517	No	0.892	No	0.303	No	0.678	No	0.261	No	0.636	No
	Edge 3	0.023	1.010	0.991	0.991	0.204	0.001	1.238	No	1.034	No	1.218	No	1.015	No	1.219	No	1.016	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.74. Sum of the SAR for LTE Band 26 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.130	0.163	0.157	0.114	0.010	0.221	1.303	No	1.514	No	1.297	No	1.508	No	1.253	No	1.465	No
	Edge 1	0.944	0.046	0.052	0.046	0.001	0.104	0.991	No	1.094	No	0.997	No	1.100	No	0.991	No	1.094	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.014	1.010	0.991	0.991	0.204	0.001	1.228	No	1.024	No	1.208	No	1.005	No	1.209	No	1.006	No
	Edge 4	0.080	0.254	0.400	0.187	0.400	0.006	0.735	No	0.340	No	0.880	No	0.486	No	0.668	No	0.274	No

12.75. Sum of the SAR for LTE Band 27 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.144	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.233	No	1.354	No	1.225	No	1.437	No	1.212	No	1.327	No
	Edge 1	0.920	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.926	No	1.042	No	0.926	No	1.029	No	0.933	No	1.050	No
	Edge 2	0.123	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.247	No	0.523	No	0.548	No	0.923	No	0.267	No	0.124	No
	Edge 3	0.012	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.013	No	0.013	No	1.155	No	0.952	No	1.006	No	1.033	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.76. Sum of the SAR for LTE Band 27 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.125	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.214	No	1.335	No	1.206	No	1.418	No	1.193	No	1.308	No
	Edge 1	0.756	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.763	No	0.878	No	0.763	No	0.866	No	0.769	No	0.886	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.013	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.014	No	0.014	No	1.155	No	0.952	No	1.007	No	1.034	No
	Edge 4	0.068	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.468	No	0.072	No	0.584	No	0.190	No	0.189	No	0.193	No

12.77. Sum of the SAR for LTE Band 27 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + 2 + ⑤		① + 2 + ⑥		① + 3 + ⑤		① + 3 + ⑥		① + 4 + ⑤		① + 4 + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.144	0.163	0.157	0.114	0.010	0.221	1.317	No	1.529	No	1.311	No	1.523	No	1.268	No	1.480	No
	Edge 1	0.920	0.046	0.052	0.046	0.001	0.104	0.967	No	1.070	No	0.973	No	1.076	No	0.967	No	1.070	No
	Edge 2	0.123	0.400	0.186	0.144	0.025	0.400	0.548	No	0.923	No	0.334	No	0.709	No	0.292	No	0.667	No
	Edge 3	0.012	1.010	0.991	0.991	0.204	0.001	1.226	No	1.023	No	1.207	No	1.004	No	1.208	No	1.005	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.78. Sum of the SAR for LTE Band 27 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + 2 + ⑤		① + 2 + ⑥		① + 3 + ⑤		① + 3 + ⑥		① + 4 + ⑤		① + 4 + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.125	0.163	0.157	0.114	0.010	0.221	1.298	No	1.510	No	1.292	No	1.504	No	1.248	No	1.460	No
	Edge 1	0.756	0.046	0.052	0.046	0.001	0.104	0.803	No	0.907	No	0.809	No	0.913	No	0.803	No	0.906	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.013	1.010	0.991	0.991	0.204	0.001	1.227	No	1.024	No	1.208	No	1.004	No	1.208	No	1.005	No
	Edge 4	0.068	0.254	0.400	0.187	0.400	0.006	0.722	No	0.328	No	0.868	No	0.473	No	0.655	No	0.261	No

12.79. Sum of the SAR for LTE Band 30 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + 2		① + 3		① + 4 + 7		① + 4 + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.259	No	1.379	No	1.251	No	1.462	No	1.238	No	1.353	No
	Edge 1	1.000	0.006	0.121	0.005	0.013	0.130	0.001	0.104	1.006	No	1.121	No	1.006	No	1.109	No	1.013	No	1.130	No
	Edge 2	0.081	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.205	No	0.481	No	0.505	No	0.881	No	0.224	No	0.082	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.80. Sum of the SAR for LTE Band 30 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.269	No	1.389	No	1.261	No	1.472	No	1.248	No	1.363	No
	Edge 1	0.833	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.839	No	0.954	No	0.839	No	0.942	No	0.846	No	0.963	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.006	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.007	No	0.007	No	1.149	No	0.946	No	1.000	No	1.027	No
	Edge 4	0.071	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.471	No	0.075	No	0.587	No	0.193	No	0.192	No	0.197	No

12.81. Sum of the SAR for LTE Band 30 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.170	0.163	0.157	0.114	0.010	0.221	1.343	No	1.554	No	1.337	No	1.548	No	1.293	No	1.505	No
	Edge 1	1.000	0.046	0.052	0.046	0.001	0.104	1.047	No	1.150	No	1.053	No	1.156	No	1.047	No	1.150	No
	Edge 2	0.081	0.400	0.186	0.144	0.025	0.400	0.505	No	0.881	No	0.291	No	0.667	No	0.249	No	0.625	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

12.82. Sum of the SAR for LTE Band 30 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.163	0.157	0.114	0.010	0.221	1.353	No	1.564	No	1.347	No	1.558	No	1.303	No	1.515	No
	Edge 1	0.833	0.046	0.052	0.046	0.001	0.104	0.880	No	0.983	No	0.886	No	0.989	No	0.880	No	0.983	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.006	1.010	0.991	0.991	0.204	0.001	1.220	No	1.017	No	1.201	No	0.998	No	1.202	No	0.999	No
	Edge 4	0.071	0.254	0.400	0.187	0.400	0.006	0.725	No	0.331	No	0.871	No	0.477	No	0.658	No	0.264	No

12.83. Sum of the SAR for LTE Band 41 on Ant. C, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.140	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.229	No	1.349	No	1.221	No	1.432	No	1.208	No	1.323	No
	Edge 1	0.752	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.758	No	0.873	No	0.758	No	0.861	No	0.765	No	0.882	No
	Edge 2	0.092	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.216	No	0.492	No	0.517	No	0.892	No	0.236	No	0.093	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.400	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.800	No	0.404	No	0.916	No	0.522	No	0.521	No	0.526	No

12.84. Sum of the SAR for LTE Band 41 on Ant. D, Wi-Fi DTS & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 2.4GHz (Ant B)	③ Wi-Fi 2.4GHz (Ant D)	④ Wi-Fi 2.4GHz (Ant A)	⑤ Wi-Fi 2.4GHz MIMO (Ant A + B)	⑥ Wi-Fi 2.4GHz MIMO (Ant A + D)	⑦ Bluetooth (Ant B)	⑧ Bluetooth (Ant D)	① + ②		① + ③		① + ④ + ⑦		① + ④ + ⑧		① + ⑤		① + ⑥	
										Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.089	0.209	0.071	0.068	0.183	0.010	0.221	1.269	No	1.389	No	1.261	No	1.472	No	1.248	No	1.363	No
	Edge 1	0.755	0.006	0.121	0.005	0.013	0.130	0.001	0.104	0.761	No	0.876	No	0.761	No	0.864	No	0.768	No	0.885	No
	Edge 2	0.400	0.124	0.400	0.400	0.144	0.001	0.025	0.400	0.524	No	0.800	No	0.825	No	1.200	No	0.544	No	0.401	No
	Edge 3	0.001	1.001	0.001	0.938	0.994	1.021	0.204	0.001	1.002	No	0.002	No	1.143	No	0.940	No	0.995	No	1.022	No
	Edge 4	0.084	0.400	0.004	0.116	0.121	0.126	0.400	0.006	0.484	No	0.088	No	0.600	No	0.206	No	0.205	No	0.209	No

12.85. Sum of the SAR for LTE Band 41 on Ant. C, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant C)	② Wi-Fi 5GHz (Ant A)	③ Wi-Fi 5GHz (Ant B)	④ Wi-Fi 5GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.140	0.163	0.157	0.114	0.010	0.221	1.313	No	1.524	No	1.307	No	1.518	No	1.263	No	1.475	No
	Edge 1	0.752	0.046	0.052	0.046	0.001	0.104	0.799	No	0.902	No	0.805	No	0.908	No	0.799	No	0.902	No
	Edge 2	0.092	0.400	0.186	0.144	0.025	0.400	0.517	No	0.892	No	0.303	No	0.678	No	0.261	No	0.636	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.400	0.254	0.400	0.187	0.400	0.006	1.054	No	0.660	No	1.200	No	0.806	No	0.987	No	0.593	No

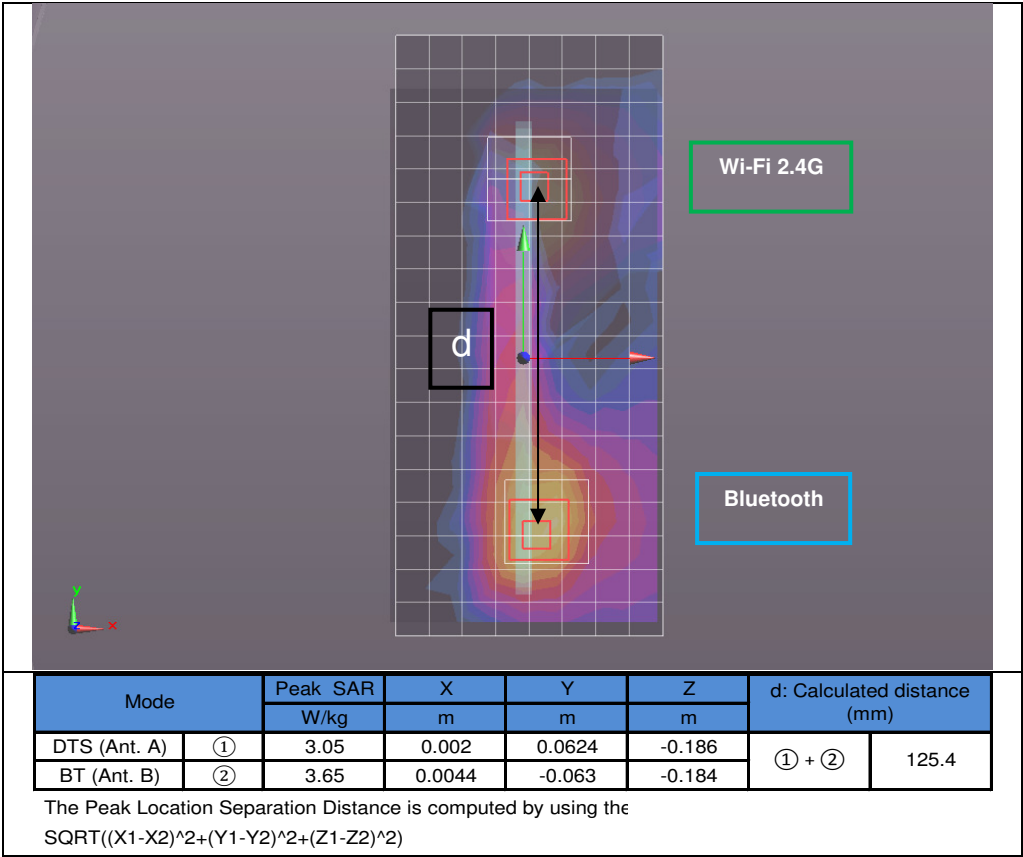
12.86. Sum of the SAR for LTE Band 41 on Ant. D, Wi-Fi UNII & BT

RF Exposure Conditions	Test Position	① WWAN (Ant D)	② Wi-Fi 5 GHz (Ant A)	③ Wi-Fi 5 GHz (Ant B)	④ Wi-Fi 5 GHz MIMO	⑤ Bluetooth (Ant B)	⑥ Bluetooth (Ant D)	① + ② + ⑤		① + ② + ⑥		① + ③ + ⑤		① + ③ + ⑥		① + ④ + ⑤		① + ④ + ⑥	
								Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)	Σ 1-g SAR (mW/g)	SPLSR (Yes/ No)
Standalone	Rear	1.180	0.163	0.157	0.114	0.010	0.221	1.353	No	1.564	No	1.347	No	1.558	No	1.303	No	1.515	No
	Edge 1	0.755	0.046	0.052	0.046	0.001	0.104	0.802	No	0.905	No	0.808	No	0.911	No	0.802	No	0.905	No
	Edge 2	0.400	0.400	0.186	0.144	0.025	0.400	0.825	No	1.200	No	0.611	No	0.986	No	0.569	No	0.944	No
	Edge 3	0.001	1.010	0.991	0.991	0.204	0.001	1.215	No	1.012	No	1.196	No	0.993	No	1.196	No	0.993	No
	Edge 4	0.084	0.254	0.400	0.187	0.400	0.006	0.738	No	0.344	No	0.884	No	0.490	No	0.671	No	0.277	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.

Figure (1)



Appendixes

Refer to separated files for the following appendixes.

15U22428-S1V2 SAR_App A Photos (STC_180days)

15U22428-S1V1 SAR_App B System Check Plots

15U22428-S1V1 SAR_App C Highest Test Plots

15U22428-S1V1 SAR_App D Tissue Ingredients

15U22428-S1V1 SAR_App E Probe Cal. Certificates

15U22428-S1V1 SAR_App F Dipole Cal. Certificates

END OF REPORT