



FCC 47 CFR § 2.1093
IEEE Std 1528-2013

SAR EVALUATION REPORT
(Part 1 : Test in Static Transmission Condition)

FOR

GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB

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V2	5/10/2024	Revised Sec.6.3 SAR Characterizations Table. Revised Sec.12.1.2 AG0(Sub6) & AG1(Sub6) SPLSR combinations Table typo Revised Appendix G	Hakchul Lee



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1. Attestation of Test Results

Applicant Name		SAMSUNG ELECTRONICS CO.,LTD.				
FCC ID		A3LSMF956B				
Model Number		SM-F956B/DS, SM-F956B				
Applicable Standards		FCC 47 CFR § 2.1093 IEEE Std 1528-2013 Published RF exposure KDB procedures				
Exposure Category		SAR Limits (W/Kg)				
		1g SAR			10g SAR	
General population / Uncontrolled exposure		1.6			4.0	
RF Exposure Conditions		Equipment Class - The Highest Reported SAR (W/kg)				
		PCE	DTS	NII	DSS	DXX
Phablet	Head	0.90	0.40	0.79	0.29	N/A
	Body-worn	0.93	0.49	0.45	0.36	N/A
	Hotspot	1.24	0.53	0.56	0.36	N/A
	Product Specific 10g	3.10	N/A	1.89	N/A	< 0.10
UMPC-mini tablet	Body	1.09	0.56	0.92	0.69	N/A
	Extremity 10g	3.10	1.94	1.55	1.94	< 0.10
Simultaneous TX of Phablet	Head	1.59	1.59	1.59	1.59	N/A
	Body-worn	1.33	1.33	1.33	1.33	N/A
	Hotspot	1.59	1.59	1.59	1.59	N/A
	Product Specific 10g	3.10	3.10	3.10	3.10	3.10
Simultaneous TX of UMPC-mini tablet	Body	1.58	1.58	1.58	1.58	N/A
	Extremity 10g	3.84	3.84	3.84	3.84	3.84
Date Tested		2/28/2024 to 5/3/2024				
Test Results		Pass				
<p>UL Korea, Ltd. 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 Korea, Ltd. 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.</p> <p>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 Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. 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 IAS, any agency of the Federal Government, or any agency of any government.</p>						
Approved & Released By:			Prepared By:			
						
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory			Juyeon Choi Laboratory Engineer UL Korea, Ltd. Suwon Laboratory			

1.1. The Highest Reported SAR for RF exposure conditions for each bands

Equipment Class	Band	Antenna	The Highest Reported SAR (W/kg)					
			Phablet mode				UMPC mini tablet mode	
			1g of tissue			10g of tissue	1g of tissue	10g of tissue
			Head Exposure condition	Body-worn Exposure condition	Hotspot Exposure condition	Product Specific Exposure condition	Body Exposure condition	Extremity Exposure condition
PCE	GSM 850	Ant.A & Ant.(A+B)	0.271	0.439	0.485	N/A	0.643	1.711
	GSM 1900	Ant.B	0.089	0.642	1.024	N/A	0.725	2.575
	WCDMA Band II	Ant.B	0.189	0.774	1.184	N/A	1.088	3.099
	WCDMA Band IV	Ant.B	0.132	0.696	0.979	N/A	1.054	2.932
	WCDMA Band V	Ant.A & Ant.(A+B)	0.224	0.555	0.555	N/A	0.753	1.991
	LTE Band 5	Ant.A & Ant.(A+B)	0.232	0.591	0.591	N/A	0.777	2.162
	LTE Band 12(17)	Ant.A & Ant.(A+B)	0.206	0.344	0.381	N/A	0.494	2.188
	LTE Band 13	Ant.A & Ant.(A+B)	0.124	0.368	0.369	N/A	0.505	1.406
	LTE Band 26	Ant.A & Ant.(A+B)	0.209	0.520	0.520	N/A	0.697	2.024
	LTE Band 66(4)	Ant.B	0.138	0.704	1.048	N/A	0.710	3.133
	LTE Band 25(2)	Ant.B	0.173	0.750	1.178	N/A	1.017	3.020
	LTE Band 41	Ant.B	0.125	0.929	1.237	3.097	1.035	2.828
	NR Band n5	Ant.A & Ant.(A+B)	0.203	0.498	0.498	N/A	0.762	1.954
	NR Band n66	Ant.B	0.124	0.561	0.757	N/A	0.834	2.964
	NR Band n25(n2)	Ant.B	0.139	0.642	0.977	N/A	0.899	2.554
	GSM 850	Ant.D	0.141	0.139	0.270	N/A	0.250	1.453
	WCDMA Band V	Ant.D	0.277	0.324	0.324	N/A	0.709	1.947
	LTE Band 5	Ant.D	0.182	0.135	0.275	N/A	0.614	1.605
	LTE Band 12(17)	Ant.D	0.241	0.266	0.289	N/A	0.461	1.472
	LTE Band 13	Ant.D	0.471	0.151	0.151	N/A	0.492	1.409
	LTE Band 26	Ant.D	0.173	0.297	0.297	N/A	0.573	1.725
	LTE Band 66(4)	Ant.E	0.536	0.507	0.592	N/A	0.647	1.971
	LTE Band 25(2)	Ant.E	0.900	0.478	0.672	N/A	0.724	2.335
	LTE Band 41	Ant.E	0.545	0.313	0.470	N/A	0.594	2.701
	NR Band n5	Ant.D	0.179	0.275	0.275	N/A	0.631	1.503
	NR Band n66	Ant.E	0.684	0.559	0.624	N/A	0.831	2.221
	NR Band n25(n2)	Ant.E	0.903	0.370	0.575	N/A	0.630	2.444
	NR Band n41#SRS0/1	Ant.E	0.837	0.452	0.504	N/A	0.665	2.901
	NR Band n41#SRS0/1	Ant.B	0.068	0.794	1.126	N/A	0.712	2.571
	NR Band n41#SRS2/3	Ant.C	0.032	0.103	0.103	N/A	0.053	0.156
NR Band n41#SRS2/3	Ant.G	<0.001	0.054	0.054	N/A	0.036	0.154	
NR Band n77(n78)#SRS0	Ant.E	0.772	0.428	0.535	N/A	0.775	2.960	
NR Band n77(n78)#SRS1	Ant.C	0.002	0.054	0.074	N/A	0.125	0.719	
NR Band n77(n78)#SRS2	Ant.F	0.181	0.226	0.226	N/A	0.340	0.775	
NR Band n77(n78)#SRS3	Ant.A	0.005	0.055	0.055	N/A	0.186	0.820	
DTS	2.4GHz WLAN		0.396	0.486	0.527	N/A	0.563	1.942
UNII	5GHz WLAN		0.794	0.451	0.563	1.888	0.647	1.553
DSS	Bluetooth		0.287	0.359	0.359	N/A	0.468	1.941
DXX	NFC		N/A	N/A	N/A	0.011	N/A	0.012

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, ANSI C63.26-2015 the following FCC Published RF exposure [KDB](#) procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D04 Interim General RF Exposure Guidance v01
- 648474 D04 Handset SAR v01r03
- 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
- 971168 D01 Power Meas License Digital System v03r01
- 941225 D07 UMPC Mini Tablet v01r02

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

- [TCB workshop](#) October, 2014; RF Exposure Procedures Update (Overlapping LTE Bands)
- [TCB workshop](#) October, 2014; RF Exposure Procedures Update (Other LTE Considerations)
- [TCB workshop](#) October, 2016; RF Exposure Procedures (DUT Holder Perturbations)
- [TCB workshop](#) May, 2017; RF Exposure Procedures (LTE Test Conditions)
- [TCB workshop](#) May, 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- [TCB workshop](#) November, 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- [TCB workshop](#) April, 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion Update)
- [TCB workshop](#) April, 2019; RF Exposure Procedures (Tissue Simulating Liquids (TSL))
- [TCB workshop](#) October, 2020; 5G RFX Policies (Intra-band and Inter-band NSA-EN-DC evaluation)
- [TCB workshop](#) April, 2022; RF Exposure Procedures (5G NR FR1 Measurement)
- [TCB workshop](#) October, 2022; RF Exposure Policies & Procedures (SAR test frequencies in multi-rule)

3. Facilities and Accreditation

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

Suwon	
SAR 1 Room	SAR 7 Room
SAR 2 Room	SAR 8 Room
SAR 3 Room	SAR 9 Room
SAR 4 Room	SAR 17 Room
SAR 5 Room	SAR 19 Room

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.

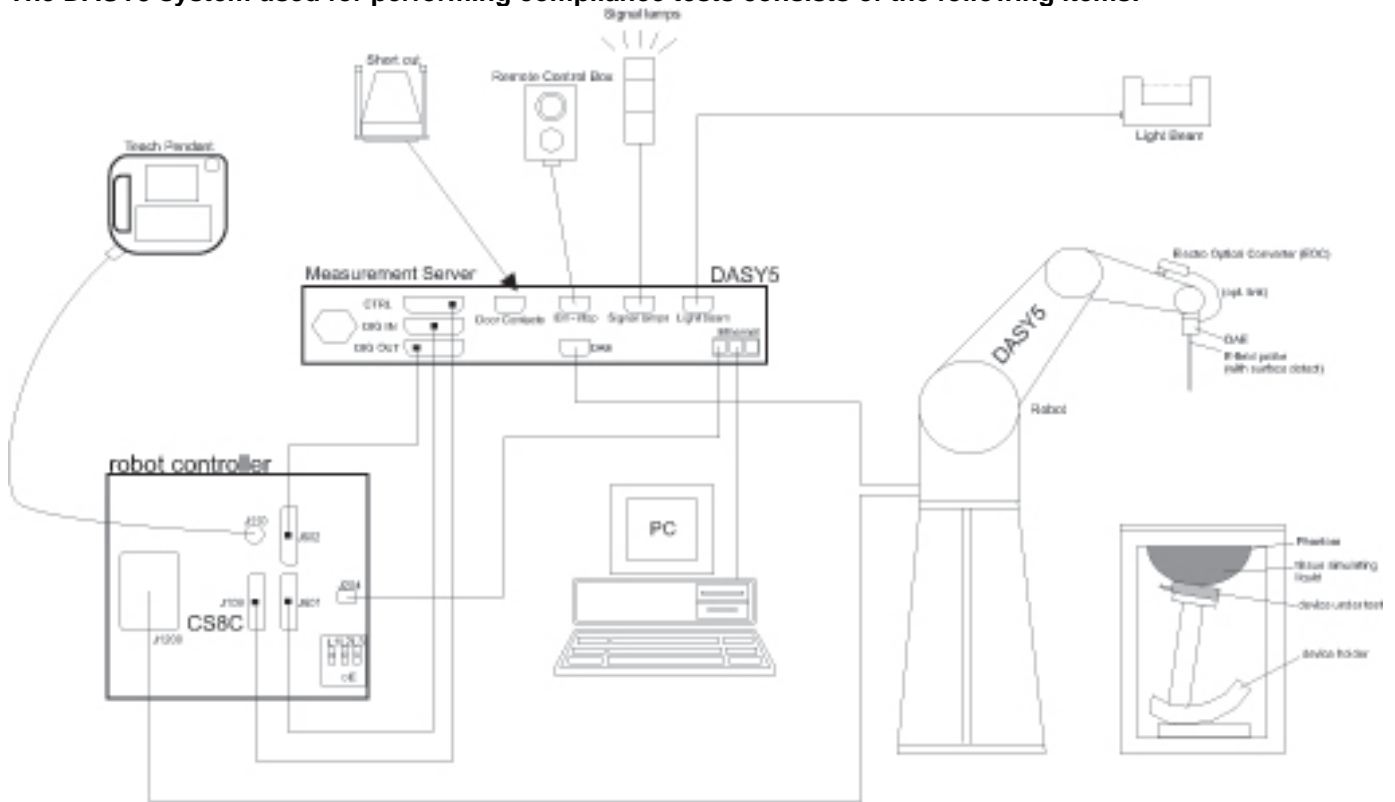
The full scope of accreditation can be viewed at;

<https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. SAR Measurement System & Test Equipment

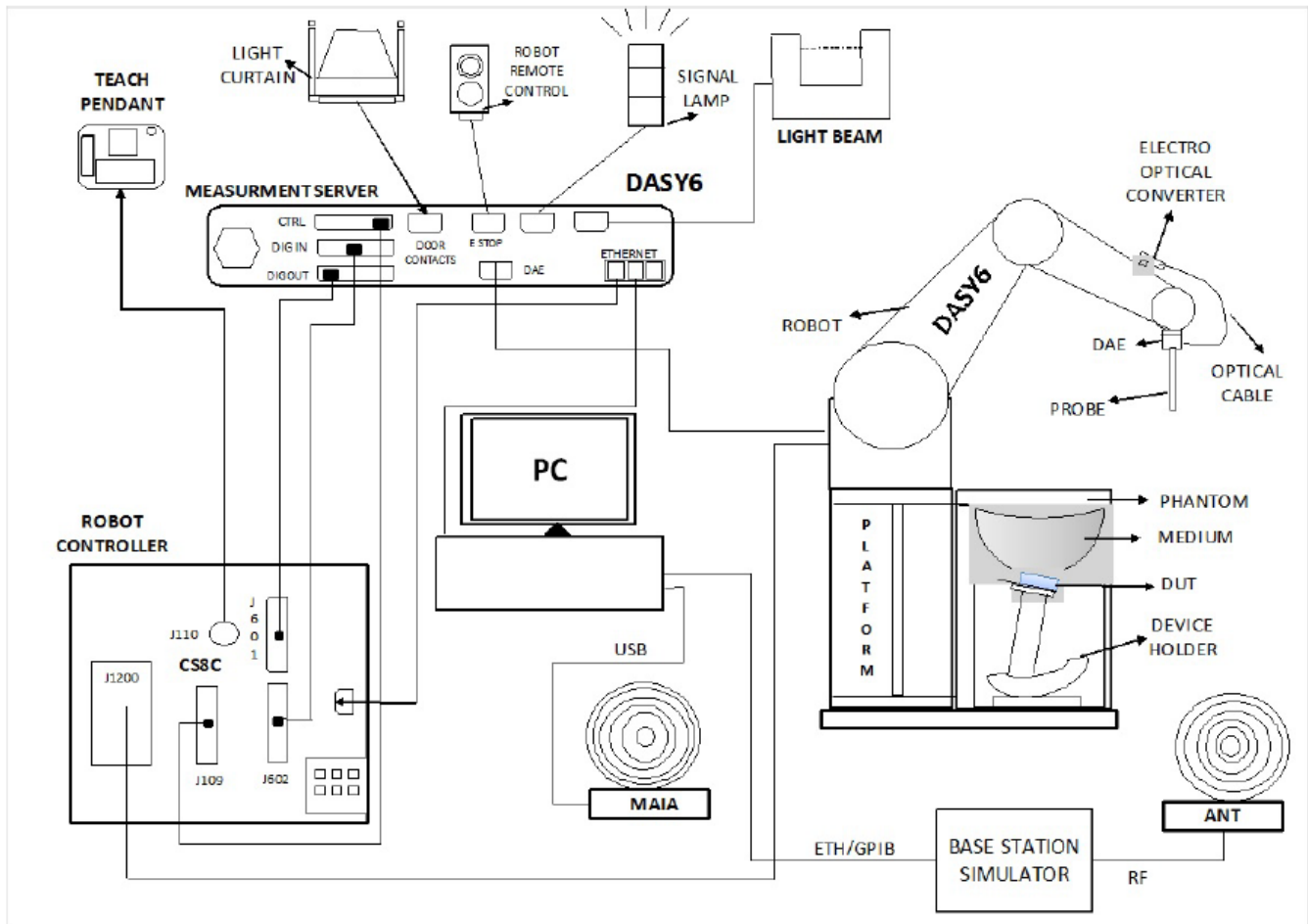
4.1. SAR Measurement System

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.

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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

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

Step 4: Power drift measurement

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

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	E5071C	MY46522054	7-24-2024
Network Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	7-24-2024
Dielectric Assessment Kit	SPEAG	DAK-12	1158	9-20-2024
Dielectric Assessment Kit	SPEAG	DAK-3.5	1133	3-20-2024
Dielectric Assessment Kit	SPEAG	DAK-3.5	1133	3-12-2025
Dielectric Assessment Kit	SPEAG	DAK-3.5	1134	4-24-2024
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	7-17-2024
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0050221	4-26-2024
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0060221	3-21-2025
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0060221	4-26-2024
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Shorting block	SPEAG	DAK-12 Short	SM DAK 220 AD	N/A
Thermometer	LKM	DTM3000	3851	7-25-2024
Thermometer	LKM	DTM3000	3862	7-25-2024

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Agilent	N5181A	MY50145882	7-26-2024
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	7-26-2024
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	7-27-2024
MXG Analog Signal Generator	Agilent	E8257D	MY53400994	7-24-2024
Power Sensor	KEYSIGHT	U2000A	MY60180020	7-26-2024
Power Sensor	KEYSIGHT	U2000A	MY60490008	7-25-2024
Power Sensor	KEYSIGHT	U2000A	MY60160004	7-25-2024
Power Sensor	KEYSIGHT	U2000A	MY61010006	7-25-2024
Power Sensor	KEYSIGHT	U2000A	MY61010010	7-25-2024
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61200006	1-3-2025
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61280010	1-3-2025
Power Amplifier	EXODUS	AMP2027	1410025-AMP2027-10003	2-14-2025
Power Amplifier	MINI-CIRCUITS	TVA-R5-13A+	2111006	1-3-2025
Power Amplifier	EXODUS	AMP2027ADB	10002	1-5-2025
Power Amplifier	Sambo	BA00T60W2D	S3010-0001	2-21-2025
Directional Coupler	Agilent	772D	MY52180193	7-25-2024
Directional Coupler	H.P	778D	16133	7-25-2024
Directional Coupler	NARDA	4216-10	02835	7-25-2024
Directional Coupler	MINI-CIRCUITS	ZMDC-30-1+	SF569102123	7-25-2024
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	7-24-2024
Directional Coupler	MINI-CIRCUITS	ZUDC20-183+	N/A	7-24-2024
Directional Coupler	KRYTAR	100318010	215541	1-4-2025
Directional Coupler	KRYTAR	100318010	215542	1-4-2025
Directional Coupler	MINI-CIRCUITS	ZMDC10-83-S+	2316	2-28-2025
Directional Coupler	MINI-CIRCUITS	ZMDC10-83-S+	2316	2-28-2025
Low Pass Filter	FILTRON	L14012FL	1410003S	7-25-2024
Low Pass Filter	MICROLAB	LA-60N	3942	7-25-2024
Low Pass Filter	MICROLAB	LA-15N	3943	7-25-2024
Low Pass Filter	MINI-CIRCUITS	VLF-6000+	S0141	7-25-2024
Low Pass Filter	MINI-CIRCUITS	VLF-6000+	S0142	7-25-2024
Low Pass Filter	MINI-CIRCUITS	VLF-3000+	S0143	7-25-2024
Low Pass Filter	MINI-CIRCUITS	NLP-1200+	VUU19301915	1-4-2025
Low Pass Filter	MINI-CIRCUITS	NLP-1200+	VUU19301915	1-4-2025
Low Pass Filter	MINI-CIRCUITS	NLP-1200	VUU19301915	7-25-2024
Low Pass Filter	KRYTAR	VLKX10-11000-13640-21000-60T	1	7-25-2024
Low Pass Filter	MINI-CIRCUITS	VLF-1500+	32333	2-28-2025
Low Pass Filter	MINI-CIRCUITS	VLF-1500+	32241	2-28-2025
Low Pass Filter	MINI-CIRCUITS	VLF-3000+	32226	2-28-2025
Attenuator	KEYSIGHT	BW-S3W10+	N/A	1-4-2025
Attenuator	KEYSIGHT	8491B003	MY39272275	7-25-2024
Attenuator	KEYSIGHT	8491B003	MY39272277	7-24-2024
Attenuator	KEYSIGHT	8491B/003	VE2017A0283	7-25-2024
Attenuator	KEYSIGHT	8491B/003	MY39272276	7-25-2024
Attenuator	KEYSIGHT	8491B/010	MY39271981	7-24-2024
Attenuator	KEYSIGHT	8491B/010	MY39272011	7-25-2024

Note(s):

1. All equipments were used until Cal.Due data.

Test Equipment (Continued)

Attenuator	KEY SIGHT	8491B010	MY39272293	7-25-2024
Attenuator	KEY SIGHT	8491B010	MY39272306	7-24-2024
Attenuator	KEY SIGHT	8491B020	MY39272300	7-25-2024
Attenuator	KEY SIGHT	8491B/020	MY39272301	7-25-2024
Attenuator	KEY SIGHT	8491B/020	MY39272302	7-24-2024
Attenuator	KEY SIGHT	8491B/020	MY39271973	7-25-2024
E-Field Probe	SPEAG	EX3DV4	7313	2-21-2025
E-Field Probe	SPEAG	EX3DV4	7314	5-26-2024
E-Field Probe	SPEAG	EX3DV4	7330	1-22-2025
E-Field Probe	SPEAG	EX3DV4	7376	7-25-2024
E-Field Probe	SPEAG	EX3DV4	7545	8-25-2024
E-Field Probe	SPEAG	EX3DV4	7645	9-20-2024
E-Field Probe	SPEAG	EX3DV4	7651	5-30-2024
E-Field Probe	SPEAG	EX3DV4	7651	3-18-2025
E-Field Probe	SPEAG	EX3DV4	7646	3-23-2024
E-Field Probe	SPEAG	EX3DV4	7646	3-15-2025
E-Field Probe	SPEAG	EX3DV4	7652	4-24-2024
E-Field Probe	SPEAG	EX3DV4	3871	8-25-2024
E-Field Probe	SPEAG	EX3DV4	7811	5-3-2024
E-Field Probe	SPEAG	EX3DV4	7850	10-27-2024
Data Acquisition Electronics	SPEAG	DAE4	1447	3-22-2024
Data Acquisition Electronics	SPEAG	DAE4	1447	3-13-2025
Data Acquisition Electronics	SPEAG	DAE4	1468	8-24-2024
Data Acquisition Electronics	SPEAG	DAE4	1494	7-17-2024
Data Acquisition Electronics	SPEAG	DAE4	1591	2-16-2025
Data Acquisition Electronics	SPEAG	DAE4	1670	5-24-2024
Data Acquisition Electronics	SPEAG	DAE4	1798	5-2-2024
Data Acquisition Electronics	SPEAG	DAE4	1675	5-11-2024
Data Acquisition Electronics	SPEAG	DAE4	912	11-17-2024
Data Acquisition Electronics	SPEAG	DAE4	474	11-10-2024
System Validation Dipole	SPEAG	CLA -13	1015	8-22-2024
System Validation Dipole	SPEAG	D750V3	1205	4-18-2025
System Validation Dipole	SPEAG	D750V3	1122	2-22-2025
System Validation Dipole	SPEAG	D835V2	4d194	3-24-2024
System Validation Dipole	SPEAG	D835V2	4d194	3-11-2025
System Validation Dipole	SPEAG	D835V2	4d174	9-21-2024
System Validation Dipole	SPEAG	D1750V2	1125	11-30-2024
System Validation Dipole	SPEAG	D1900V2	5d190	11-16-2024
System Validation Dipole	SPEAG	D2450V2	939	7-19-2024
System Validation Dipole	SPEAG	D5GHzV2	1325	4-21-2025
System Validation Dipole	SPEAG	D5GHzV2	1209	2-28-2025
System Validation Dipole	SPEAG	D3500V2	1121	4-20-2025
System Validation Dipole	SPEAG	D3500V2	1075	5-19-2024
System Validation Dipole	SPEAG	D3700V2	1036	5-19-2024
System Validation Dipole	SPEAG	D1750V2	1180	9-21-2024
System Validation Dipole	SPEAG	D2600V2	1178	4-25-2025
System Validation Dipole	SPEAG	D2600V2	1097	9-26-2024
System Validation Dipole	SPEAG	D3900V2	1069	4-21-2025
Thermometer	Lutron	MHB-382SD	AH.50215	1-4-2025
Thermometer	Lutron	MHB-382SD	AH.50213	1-4-2025
Thermometer	Lutron	MHB-382SD	AH.91463	1-4-2025
Thermometer	Lutron	MHB-382SD	AJ.42446	7-31-2024
Thermometer	Lutron	MHB-382SD	AK.12102	7-31-2024
Thermometer	Lutron	MHB-382SD	AK.12103	7-31-2024
Thermometer	Lutron	MHB-382SD	AK.12123	1-8-2025
Thermometer	Lutron	MHB-382SD	AK.18789	7-31-2024
Thermometer	Lutron	MHB-382SD	AJ.45903	1-8-2025

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	150313	7-27-2024
Base Station Simulator	R & S	CMW500	150314	7-26-2024
Base Station Simulator	R & S	CMW500	162790	7-26-2024
Base Station Simulator	R & S	CMW500	169803	3-25-2025
Base Station Simulator	R & S	CMW500	169801	1-3-2025
Base Station Simulator	R & S	CMW500	169802	1-3-2025
Base Station Simulator	R & S	CMW500	169799	7-26-2024
Base Station Simulator	R & S	CMW500	169800	7-27-2024
UXM 5G Wireless Test Platform	KEY SIGHT	E7515B	MY57510596	7-27-2024
UXM 5G Wireless Test Platform	KEY SIGHT	E751B	MY59150850	1-3-2025
UXM 5G Wireless Test Platform	KEY SIGHT	E751B	MY57510655	1-3-2025
UXM 5G Wireless Test Platform	KEY SIGHT	E7515B	MY58120110	1-3-2025
Radio Communication Test Station	Anritsu	MT8000A	6272466165	10-18-2024
Radio Communication Analyzer	Anritsu	MT8821C	6161094351	11-30-2024

Note(s):

1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
2. Refer to Appendix F that mentioned about justification for Extended SAR Dipole Calibrations. (for blue box items)
3. All equipments were used until Cal.Due data.

5. Measurement Uncertainty

Measurement Uncertainty of 100MHz to 6GHz

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

Measurement Uncertainty of 9MHz to 19MHz

Measurement uncertainty for 9 MHz to 19 MHz

(According to IEEE 62209-1528)

a	b	c		d	e f(d,k)	f	g	h = cx/f/e	l = cxg/e	k	
		Tol. 1 g (±%)	Tol. 10 g (±%)								Prob. Dist.
Measurement System Errors											
Probe Calibration	8.4.1.1	13.3		Normal	2	1	1	6.7	6.7	∞	
Probe Calibration Drift	8.4.1.2	1.7		Rectangular	1.732	1	1	1.0	1.0	∞	
Probe Linearity	8.4.1.3	4.7		Rectangular	1.732	1	1	2.7	2.7	∞	
Broadband Signal	8.4.1.4	0.8		Rectangular	1.732	1	1	0.5	0.5	∞	
Probe Isotropy	8.4.1.5	7.6		Rectangular	1.732	1	1	4.4	4.4	∞	
Data Acquisition	8.4.1.6	0.3		Normal	1	1	1	0.3	0.3	∞	
RF Ambient	8.4.1.7	1.8		Normal	1	1	1	1.8	1.8	∞	
Probe Positioning	8.4.1.8	0.006		Normal	1	0.14	0.14	0.10	0.10	∞	
Data Processing	8.4.1.9	1.2		Normal	1	1	1	1.2	1.2	∞	
Phantom and Device Errors											
Conductivity (meas.)DAK	8.4.2.1	2.5		Normal	1	0.78	0.71	2.0	1.8	∞	
Conductivity (temp.)BB	8.4.2.2	5.4		Rectangular	1.732	0.78	0.71	2.4	2.2	∞	
Phantom Permittivity	8.4.2.3	14.0		Rectangular	1.732	0	0	0.0	0.0	∞	
Distance DUT-TSL	8.4.2.4	2.0		Normal	1	2	2	4.0	4.0	∞	
Device Positioning	8.4.2.5	1.0	2.3	Normal	1	1	1	1.0	2.3	40	
Device Holder	8.4.2.6	3.6		Normal	1	1	1	3.6	3.6	∞	
DUT Modulation	8.4.2.7	2.4		Rectangular	1.732	1	1	1.4	1.4	∞	
Time-average SAR	8.4.2.8	1.7		Rectangular	1.732	1	1	1.0	1.0	∞	
DUT drift	8.4.2.9	5.0		Normal	1	1	1	5.0	5.0	∞	
Correction to the SAR results											
Deviation to Target	8.4.3.1	1.9		Normal	1	1	0.84	1.9	1.6	∞	
Combined Standard Uncertainty U _c (y) =								RSS	12.16	12.23	
Expanded Uncertainty U, Coverage Factor = 2, > 95 % Confidence =									24.33	24.47	

5.1. DECISION RULE

Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3.

6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension	Refer to Appendix A.					
Back Cover	<input checked="" type="checkbox"/> The Back Cover is not removable.					
Battery Options	<input checked="" type="checkbox"/> The rechargeable battery is not user accessible					
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its cellular data connection with other Wi-Fi-enabled devices. <input checked="" type="checkbox"/> Mobile Hotspot (Wi-Fi 2.4 GHz) <input checked="" type="checkbox"/> Mobile Hotspot (Wi-Fi 5.8 GHz)					
Wi-Fi Direct	Wi-Fi Direct enabled devices transfer data directly between each other <input checked="" type="checkbox"/> Wi-Fi Direct (Wi-Fi 2.4 GHz) <input checked="" type="checkbox"/> Wi-Fi Direct (Wi-Fi 5.2 GHz_UNII-1, Wi-Fi 5.8 GHz_UNII-3)					
Test Sample Information	No.	S/N	Notes	No.	S/N	Notes
	1	7b4573d883507ece	Main Conducted	14	R3CX10SAP4B	SAR
	2	7b4573d88b507ece	Main Conducted	15	R3CX10SAPHZ	SAR
	3	R3CX10SAPCF	Main Conducted	16	R3CX10SANJX	SAR
	4	R3CX10SAPDV	Main Conducted	17	R3CX10SANS�	SAR
	5	R3CX10SANQP	Main Conducted	18	R3CX10SAPGW	SAR
	6	R3CX10SAP2X	Main Conducted	19	R3CX10SAPAL	SAR
	7	XBK0248M	Main Conducted	20	R3CX10SANVE	SAR
	8	7b456db5ae507ece	WLAN Conducted	21	7b456db500507ece	SAR
	9	7b456db5b1507ece	BT Conducted	22	R3CX403N5SR	SAR
	10	R3CX10SAPJN	SAR	23	R3CX403NBJM	SAR
	11	R3CX10SAPFE	SAR	24	R3CX403N7BK	SAR
	12	R3CX10SAPBA	SAR	25	R3CX403NB0B	SAR
	13	R3CX10SAPEY	SAR			

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK)	GPRS Multi-Slot Class: <input type="checkbox"/> Class 8 - 1 Up, 4 Down <input type="checkbox"/> Class 10 - 2 Up, 4 Down <input type="checkbox"/> Class 12 - 4 Up, 4 Down <input checked="" type="checkbox"/> Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25% 3 Slots: 37.5% 4 Slots: 50%
		GPRS (GMSK)		
Does this device support DTM (Dual Transfer Mode)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
W-CDMA (UMTS)	Band II Band IV Band V	UMTS Rel. 99 (Voice & Data) HSDPA (Category 24) HSUPA (Category 6) DC-HSDPA (Category 24) HSPA+ (DL only)		100%
LTE	FDD Band 12 / Band 17 FDD Band 13 / Band 26 FDD Band 5 / Band 66 FDD Band 4 / Band 25 FDD Band 2 TDD Band 41-PC3&PC2	QPSK 16QAM 64QAM 256QAM Rel. 16 Carrier Aggregation (2 Uplink and 5 Downlinks) UL CA inter band (2CC) 2A-4A / 4A-5A / 4A-12A / 5A-66A / 12A-66A		100% (FDD) 63.3% (TDD) <small>Power Class 3</small> 43.3% (TDD) <small>Power Class 2</small>
		Does this device support SV-LTE (1xRTT-LTE)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
NR (Sub6)	FDD Band n5 / Band n66 FDD Band n25 / Band n2 TDD Band n41 TDD Band n77	DFT-s-OFDM: ■ $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: ■ QPSK, 16QAM, 64QAM, 256QAM		100%
Wi-Fi	2.4 GHz	802.11b / 802.11g / 802.11n (HT20) 802.11ac (VHT20) / 802.11ax (HE20)		98.80% <small>(802.11b)</small>
	5 GHz	802.11a / 802.11n (HT20) & (HT40) 802.11ac (VHT20) & (VHT40) & (VHT80) & (VHT160) 802.11ax (HE20) & (HE40) & (HE80) & (HE160)		98.18% <small>(802.11n (HT40))</small> 94.43% <small>(802.11ac (VHT80))</small>
		802.11a 802.11ax (HE20) & (HE40) & (HE80) & (HE160)		99.63% <small>(802.11ax (HE160))</small>
	Does this device support bands 5.60 ~ 5.65 GHz? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Does this device support Band gap channel(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Bluetooth	2.4 GHz	Version 5.3 LE		85.39% <small>(LE-1M)</small> 77.09% <small>(BDR)</small>
NFC	13.56 MHz	Type A/B/F		100%
UWB	6489.6 – 7987.2 MHz	Signal Configurations(0/1/3), PRF modes(BPRF/HPRF)		100%

Notes:

1. Wi-Fi & Bluetooth were tested SAR using highest duty cycle. Measured duty cycle plots are in Section.9.
2. This device supports Power Class 2(HPUE) and Power Class 3 for LTE Band 41.
3. This device supports UL CA inter band in LTE Band.
4. NR TDD Band n41 & n77 has support SRS(0,1,2,3) modes.
5. 6GHz RF Exposure report has test results of Wi-Fi 6GHz and UWB.

6.3. Time-Averaging feature

The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G technologies and WLAN/BT technologies. these modems are enabled with Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement. Refer to Compliance Summary document for detailed description of Qualcomm Smart Transmit feature.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_{design_target} , below the predefined time-average power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{Limit} . Below table shows P_{Limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (DSI Device State Index).

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G/WLAN/BT technology bands, and DSI = minimum of " P_{Limit} EFS" and "Maximum tune up output power P_{max} " + 1 dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB 447498 D04.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

SAR Characterizations

Exposure condition			Folder Open UMPC Body 1-g	Folder Open UMPC Extremity 10-g	Folder Closed Bodyworn & Hotspot	Folder Closed Phablet Specific 10-g SAR	Folder Closed Head	Pmax (Maximum tune-up Power) (dBm)
Spatial-average			1g	10g	1g	10g	1g	
Test distance (mm)			10	0	10	0	0	
Configuration			Folder Open	Folder Open	Folder Close	Folder Close	Folder Close	
DSI :			0		1		3	
RF Air Interface	Antenna	Antenna Group	Plimit corresponding to 1.0 W/kg (SAR_design_target) (1g) / 2.5 W/kg (SAR_design_target) (10g)					
GSM 850	A, A+B	AG 0	27.2		26.7	26.7	29.2	25.3
GSM 850	D	AG 1	28.0		32.0	29.1	34.8	25.3
GSM 1900	B	AG 0	18.3		18.3	18.3	30.6	21.8
WCDMA 2	B	AG 0	19.0		19.0	19.0	29.5	24.0
WCDMA 4	B	AG 0	19.0		19.0	19.0	30.9	23.8
WCDMA 5	A, A+B	AG 0	25.7		25.7	25.7	29.3	24.5
WCDMA 5	D	AG 1	25.5		27.8	27.8	31.0	24.5
LTE Band 5	A, A+B	AG 0	25.5		26.4	26.4	29.1	24.5
LTE Band 5	D	AG 1	26.5		31.1	28.8	32.8	24.5
LTE Band 12(17)	A, A+B	AG 0	25.5		27.0	27.0	29.6	24.5
LTE Band 12(17)	D	AG 1	25.8		30.8	27.9	31.6	24.5
LTE Band 13	A, A+B	AG 0	25.9		26.6	26.6	31.3	24.0
LTE Band 13	D	AG 1	25.5		33.0	28.1	28.0	24.0
LTE Band 25(2)	B	AG 0	18.0		19.0	19.0	29.9	24.0
LTE Band 25(2)	E	AG 1	20.0		20.0	22.5	22.5	24.0
LTE Band 26	A, A+B	AG 0	25.5		26.4	26.4	29.6	24.5
LTE Band 26	D	AG 1	26.5		30.7	28.1	33.1	24.5
LTE Band 66(4)	B	AG 0	19.0		19.0	19.0	30.4	23.5
LTE Band 66(4)	E	AG 1	20.0		20.0	20.0	21.5	23.5
LTE Band 41PC3	B	AG 0	16.5		18.0	18.0	29.3	22.0
LTE Band 41 PC3	E	AG 1	19.0		19.0	19.0	26.3	22.5
LTE Band 41 PC2	B	AG 0	16.5		18.0	18.0	29.3	21.6
LTE Band 41 PC2	E	AG 1	19.0		19.0	19.0	26.0	22.4
NR Band n5	A, A+B	AG 0	25.0		27.1	27.1	29.2	24.0
NR Band n5	D	AG 1	25.5		30.6	29.3	32.4	24.0
NR Band n25(2)	B	AG 0	18.0		19.0	19.0	29.8	23.0
NR Band n25(2)	E	AG 1	20.0		20.0	20.0	22.5	23.0
NR Band n66	B	AG 0	19.0		19.0	19.0	30.8	23.5
NR Band n66	E	AG 1	20.0		20.0	20.0	21.5	23.0
NR Band n41 -Main- (Switching SRS1)	E	AG 1	18.5		18.5	22.0	22.0	24.0
NR Band n41 -SRS2- (Switching SRS3)	G	AG 1	12.0		12.0	12.0	12.0	19.0
NR Band n41 swithcing -Main- (non swithcing SRS1)	B	AG 0	16.5		18.0	18.0	33.9	24.0
NR Band n41 swithcing -SRS2- (non swithcing SRS3)	C	AG 0	12.0		12.0	12.0	12.0	17.5
NR Band n77 PC2 -Main-	E	AG 1	17.5		17.5	17.5	18.0	24.5
NR Band n77 PC2 -SRS1-	C	AG 0	14.0		14.0	14.0	14.0	17.0
NR Band n77 PC2 -SRS2-	F	AG 1	14.0		14.0	14.0	14.0	24.5
NR Band n77 PC2 -SRS3-	A	AG 0	14.0		14.0	14.0	14.0	19.0
DTS SISO Ant. 1	G	AG 1	17.0		17.0	17.0	17.0	19.0
DTS SISO Ant. 2	F	AG 1	17.0		17.0	17.0	17.0	19.0
DTS MIMO	G+F	AG 1	17.0		17.0	17.0	17.0	19.0
UNII-2A SISO Ant. 1	G	AG 1	19.8		28.1	20.9	19.4	17.0
UNII-2A SISO Ant. 2	D	AG 1	20.0		25.2	23.6	24.8	17.0
UNII-2A MIMO	D+G	AG 1	18.7		23.7	20.3	19.0	17.0
UNII-2C SISO Ant. 1	G	AG 1	19.3		24.1	19.9	23.7	17.0
UNII-2C SISO Ant. 2	D	AG 1	22.2		24.6	20.0	23.4	17.0
UNII-2C MIMO	D+G	AG 1	18.4		21.7	19.4	23.6	17.0
UNII-3 SISO Ant. 1	G	AG 1	18.7		22.2	20.3	20.8	17.0
UNII-3 SISO Ant. 2	D	AG 1	20.7		24.5	21.3	23.6	17.0
UNII-3 MIMO	D+G	AG 1	18.3		20.7	19.8	20.4	17.0
UNI-4 SISO Ant. 1	G	AG 1	19.0		26.5	21.3	22.9	17.0
UNI-4 SISO Ant. 2	D	AG 1	20.8		24.8	22.1	22.8	17.0
UNI-4 MIMO	D+G	AG 1	18.0		24.9	21.2	21.5	17.0
WiFi 6E SISO Ant. 1	G	AG 1	10.0		12.0	12.0	12.0	16.0
WiFi 6E SISO Ant. 2	D	AG 1	10.0		12.0	12.0	12.0	16.0
WiFi 6E MIMO	D+G	AG 1	10.0		12.0	12.0	12.0	16.0
Bluetooth Ant. 1	G	AG 1	21.0		28.3	25.9	28.5	18.5
Bluetooth Ant. 2	F	AG 1	20.5		23.8	20.2	25.0	18.5
Bluetooth MIMO	G+F	AG 1	21.5		24.2	21.9	25.1	14.5

Notes:

1. If *Plimit* is higher than *Pmax* for some modes / bands, The modes/bands will operate at a power level up to *Pmax*.
2. *Pmax* (Maximum tune-up power) is specified in tune-up document. The maximum allowed power is equal to maximum tune up power + 1 dB device design uncertainty.
3. All *Plimit* EFS and maximum tune up output *Pmax* levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g GSM and LTE TDD).
4. *Plimit*(DSI=0) was determined to be the lower of "UMPC Body 1-g" and "UMPC Extremity 10-g" in each WWAN Bands.
5. *Plimit*(DSI=1) was determined to be the lower of "Body-worn & Hotspot" and "Product Specific 10-g" in each WWAN Bands.
6. Some band's DSIs were determined more conservative *Plimit* instead of calculation *Plimit* in Section.7.

6.4. Maximum Allowed Output power

Maximum allowed output power means that Pmax or PLimit + 1dB device uncertainty for each DSI.

GSM Bands

RF Air interface	Antenna	Mode	Time Slots	Maximum allowed output power (dBm)									
				Pmax		PLimit							
						DSI = 0 (Folder Opened - Body)		DSI = 1 (Folder Closed - Body)		DSI = 2 (Folder Opened - Head)		DSI = 3 (Folder Closed - Head)	
						Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM850	Ant.A & Ant.A+B	Voice	1	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11
		GPRS	1	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11
		GPRS	2	32.50	26.32	32.50	26.32	32.50	26.32	32.50	26.32	32.50	26.32
		GPRS	3	30.50	26.08	30.50	26.08	30.50	26.08	30.50	26.08	30.50	26.08
		GPRS	4	28.50	25.33	28.50	25.33	28.50	25.33	28.50	25.33	28.50	25.33
		EGPRS	1	28.00	18.81	28.00	18.81	28.00	18.81	28.00	18.81	28.00	18.81
		EGPRS	2	26.00	19.82	26.00	19.82	26.00	19.82	26.00	19.82	26.00	19.82
		EGPRS	3	24.00	19.58	24.00	19.58	24.00	19.58	24.00	19.58	24.00	19.58
		EGPRS	4	23.00	19.83	23.00	19.83	23.00	19.83	23.00	19.83	23.00	19.83
GSM1900	Ant.B	Voice	1	30.50	21.31	28.50	19.31	28.50	19.31	30.50	21.31	30.50	21.31
		GPRS	1	30.50	21.31	28.50	19.31	28.50	19.31	30.50	21.31	30.50	21.31
		GPRS	2	29.00	22.82	25.50	19.32	25.50	19.32	29.00	22.82	29.00	22.82
		GPRS	3	27.00	22.58	23.70	19.28	23.70	19.28	27.00	22.58	27.00	22.58
		GPRS	4	25.00	21.83	22.50	19.33	22.50	19.33	25.00	21.83	25.00	21.83
		EGPRS	1	26.50	17.31	26.50	17.31	26.50	17.31	26.50	17.31	26.50	17.31
		EGPRS	2	25.00	18.82	25.00	18.82	25.00	18.82	25.00	18.82	25.00	18.82
		EGPRS	3	22.00	17.58	22.00	17.58	22.00	17.58	22.00	17.58	22.00	17.58
		EGPRS	4	21.00	17.83	21.00	17.83	21.00	17.83	21.00	17.83	21.00	17.83
GSM850	Ant.D	Voice	1	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11
		GPRS	1	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11	33.30	24.11
		GPRS	2	32.50	26.32	32.50	26.32	32.50	26.32	32.50	26.32	32.50	26.32
		GPRS	3	30.50	26.08	30.50	26.08	30.50	26.08	30.50	26.08	30.50	26.08
		GPRS	4	28.50	25.33	28.50	25.33	28.50	25.33	28.50	25.33	28.50	25.33
		EGPRS	1	28.00	18.81	28.00	18.81	28.00	18.81	28.00	18.81	28.00	18.81
		EGPRS	2	26.00	19.82	26.00	19.82	26.00	19.82	26.00	19.82	26.00	19.82
		EGPRS	3	24.00	19.58	24.00	19.58	24.00	19.58	24.00	19.58	24.00	19.58
		EGPRS	4	23.00	19.83	23.00	19.83	23.00	19.83	23.00	19.83	23.00	19.83

WCDMA Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0 (Folder Opened - Body)	DSI = 1 (Folder Closed - Body)	DSI = 2 (Folder Opened - Head)	DSI = 3 (Folder Closed - Head)
W-CDMA Band V	Ant.A & Ant.A+B	R99	25.50	25.50	25.50	25.50	
		HSDPA	24.50	24.50	24.50	24.50	
		HSUPA	24.50	24.50	24.50	24.50	
		DC-HSDPA	24.50	24.50	24.50	24.50	
W-CDMA Band IV	Ant.B	R99	24.80	20.00	20.00	24.80	
		HSDPA	23.80	19.00	19.00	23.80	
		HSUPA	23.80	19.00	19.00	23.80	
		DC-HSDPA	23.80	19.00	19.00	23.80	
W-CDMA Band II	Ant.B	R99	25.00	20.00	20.00	25.00	
		HSDPA	24.00	19.00	19.00	24.00	
		HSUPA	24.00	19.00	19.00	24.00	
		DC-HSDPA	24.00	19.00	19.00	24.00	
W-CDMA Band V	Ant.D	R99	25.50	25.50	25.50	25.50	
		HSDPA	24.50	24.50	24.50	24.50	
		HSUPA	24.50	24.50	24.50	24.50	
		DC-HSDPA	24.50	24.50	24.50	24.50	

Note(s):

1. Detail of DSI (Device State Index) conditions, please refer to Sec.6.5.
2. Some bands are support to both Ant.A and Ant.A+B configurations in Folder Closed condition using same target power.
3. For Both Ant.A and Ant.A+B configurations, Folder Opened condition has support only Ant.A+B configuration.

Maximum allowed output power means that Pmax or PLimit + 1dB device uncertainty for each DSI.

LTE Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0 (Folder Opened - Body)	DSI = 1 (Folder Closed - Body)	DSI = 2 (Folder Opened - Head)	DSI = 3 (Folder Closed - Head)
LTE FDD Band 12	Ant.A & Ant.A+B	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 12	Ant.D	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 17	Ant.A & Ant.A+B	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 17	Ant.D	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 13	Ant.A & Ant.A+B	QPSK	25.00	25.00	25.00	25.00	25.00
LTE FDD Band 13	Ant.D	QPSK	25.00	25.00	25.00	25.00	25.00
LTE FDD Band 26	Ant.A & Ant.A+B	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 26	Ant.D	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 5	Ant.A & Ant.A+B	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 5	Ant.D	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD Band 66	Ant.B	QPSK	24.50	20.00	20.00	24.50	24.50
LTE FDD Band 66	Ant.E	QPSK	24.50	21.00	21.00	22.50	22.50
LTE FDD Band 4	Ant.B	QPSK	24.50	20.00	20.00	24.50	24.50
LTE FDD Band 4	Ant.E	QPSK	24.50	21.00	21.00	22.50	22.50
LTE FDD Band 25	Ant.B	QPSK	25.00	19.00	20.00	25.00	25.00
LTE FDD Band 25	Ant.E	QPSK	25.00	21.00	21.00	23.50	23.50
LTE FDD Band 2	Ant.B	QPSK	25.00	19.00	20.00	25.00	25.00
LTE FDD Band 2	Ant.E	QPSK	25.00	21.00	21.00	23.50	23.50
LTE TDD Band 41 (PC3)	Ant.B	QPSK	25.00	19.50	21.00	25.00	25.00
LTE TDD Band 41 (PC3)	Ant.E	QPSK	25.50	22.00	22.00	25.50	25.50
LTE TDD Band 41 (PC2)	Ant.B	QPSK	26.50	21.10	22.60	26.50	26.50
LTE TDD Band 41 (PC2)	Ant.E	QPSK	27.00	23.60	23.60	27.00	27.00

Note(s):

1. Detail of DSI (Device State Index) conditions, please refer to Sec.6.5.
2. Some bands are support to both Ant.A and Ant.A+B configurations in Folder Closed condition using same target power.
3. For Both Ant.A and Ant.A+B configurations, Folder Opened condition has support only Ant.A+B configuration.

Maximum allowed output power means that Pmax or PLimit + 1dB device uncertainty for each DSI.

NR-Sub6 Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0 (Folder Opened - Body)	DSI = 1 (Folder Closed - Body)	DSI = 2 (Folder Opened - Head)	DSI = 3 (Folder Closed - Head)
NR Band n5	Ant.A & Ant.A+B	DFT-s-OFDM QPSK	25.00	25.00	25.00	25.00	25.00
NR Band n5	Ant.D	DFT-s-OFDM QPSK	25.00	25.00	25.00	25.00	25.00
NR Band n66	Ant.B	DFT-s-OFDM QPSK	24.50	20.00	20.00	24.50	24.50
NR Band n66	Ant.E	DFT-s-OFDM QPSK	24.00	21.00	21.00	22.50	22.50
NR Band n25	Ant.B	DFT-s-OFDM QPSK	24.00	19.00	20.00	24.00	24.00
NR Band n25	Ant.E	DFT-s-OFDM QPSK	24.00	21.00	21.00	23.50	23.50
NR Band n2	Ant.B	DFT-s-OFDM QPSK	24.00	19.00	20.00	24.00	24.00
NR Band n2	Ant.E	DFT-s-OFDM QPSK	24.00	21.00	21.00	23.50	23.50
NR Band n41	Ant.E	DFT-s-OFDM QPSK	25.00	19.50	19.50	23.00	23.00
NR Band n41 SRS#1	Ant.B	SRS CW	25.00	17.50	19.00	25.00	25.00
NR Band n41 SRS#2	Ant.G	SRS CW	20.00	13.00	13.00	13.00	13.00
NR Band n41 SRS#3	Ant.C	SRS CW	18.50	13.00	13.00	13.00	13.00
NR Band n41(SA) switching	Ant.B	DFT-s-OFDM QPSK	25.00	17.50	19.00	25.00	25.00
NR Band n41(SA) switching SRS#1	Ant.E	SRS CW	24.50	19.50	19.50	23.00	23.00
NR Band n41(SA) switching SRS#2	Ant.C	SRS CW	18.00	13.00	13.00	13.00	13.00
NR Band n41(SA) switching SRS#3	Ant.G	SRS CW	20.50	13.00	13.00	13.00	13.00
NR Band n77	Ant.E	DFT-s-OFDM QPSK	25.50	18.50	18.50	19.00	19.00
NR Band n77 SRS#1	Ant.C	SRS CW	18.00	15.00	15.00	15.00	15.00
NR Band n77 SRS#2	Ant.F	SRS CW	25.50	15.00	15.00	15.00	15.00
NR Band n77 SRS#3	Ant.A	SRS CW	20.00	15.00	15.00	15.00	15.00

NR Band n41 configuration's test case determination of (Out power power and SAR measurement)

Band	SRS	Ant	PLimit (dBm)			
			DSI 0	DSI 1	DSI 2	DSI 3
NR Band n41	0	E	19.50	19.50	23.00	23.00
	1	B	17.50	19.00	25.00	25.00
	2	G	13.00	13.00	13.00	13.00
	3	C	13.00	13.00	13.00	13.00

Band	SRS	Ant	PLimit (dBm)			
			DSI 0	DSI 1	DSI 2	DSI 3
NR Band n41(SA) switching	0	B	17.50	19.00	25.00	25.00
	1	E	19.50	19.50	23.00	23.00
	2	C	13.00	13.00	13.00	13.00
	3	G	13.00	13.00	13.00	13.00

Note(s):

1. Detail of DSI(Device State Index) conditions, please refer to Sec.6.5.
2. Some bands are support to both Ant.A and Ant.A+B configurations in Folder Closed condition using same target power.
3. For Both Ant.A and Ant.A+B configurations, Folder Opened condition has support only Ant.A+B configuration.
4. NR Band n41 (including SRS0/1/2/3) applied SAR test case reduction due to same Plimit for SA switching. So SAR full test performed at orange box in above table. Detail of test results refer to section.10 in report.

Maximum allowed output power means that Pmax or PLimit + 1dB device uncertainty for each DSI.

WLAN output power (Pmax)

RF Air interface	Band	Maximum allowed output power (dBm) - Pmax												
		802.11 mode												
		2.4GHz SISO (Ant.G & Ant.F) / 5GHz SISO (Ant.G & Ant.D)						2.4GHz MIMO (Ant.G + Ant.F) / 5GHz MIMO (Ant.G + Ant.D)						
		a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)	
WiFi 2.4 GHz	DTS	Ch 1		20	18	18	18	16		23	21	21	21	19
		Ch 2 - 10		20	18	18	18	18		23	21	21	21	21
		Ch 11		20	16	16	16	16		23	19	19	19	19
		Ch 12		6	6	6	6	6		9	9	9	9	9
		Ch 13		0	0	0	0	0		3	3	3	3	3
WiFi 5 GHz (BW : 20MHz)	UNII-1	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-1 (Ch.36)	17.0			18.0	18.0	16.0	20.0			21.0	21.0	19.0	
	UNII-2A	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-2A (Ch.64)	17.0			18.0	18.0	16.0	20.0			21.0	21.0	19.0	
	UNII-2C	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-3	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-4	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
WiFi 5 GHz (BW : 40MHz)	UNII-1				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-1 (Ch.38)				16.0	16.0	16.0				19.0	19.0	19.0	
	UNII-2A				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-2A (Ch.62)				15.5	15.5	15.5				18.5	18.5	18.5	
	UNII-2C				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-2C (Ch.102)				16.0	16.0	16.0				19.0	19.0	19.0	
	UNII-3				18.0	18.0	18.0				21.0	21.0	21.0	
UNII-4				18.0	18.0	18.0				21.0	21.0	21.0		
WiFi 5 GHz (BW : 80MHz)	UNII-1					16.0	16.0					19.0	19.0	
	UNII-2A					16.0	16.0					19.0	19.0	
	UNII-2C					18.0	18.0					21.0	21.0	
	UNII-2C (Ch.106)					16.0	16.0					19.0	19.0	
	UNII-3					18.0	18.0					21.0	21.0	
	UNII-4					18.0	18.0					21.0	21.0	
WiFi 5 GHz (BW : 160MHz)	UNII-1 & 2A					16.0	16.0					19.0	19.0	
	UNII-2C					14.0	14.0					17.0	17.0	
	UNII-3 & 4					16.0	16.0					19.0	19.0	

WLAN output power (DSI=0, 1, 2, 3)

RF Air interface	Band	Maximum allowed output power (dBm) - DSI=0, 1, 2, 3												
		802.11 mode												
		2.4GHz SISO (Ant.G & Ant.F) / 5GHz SISO (Ant.G & Ant.D)						2.4GHz MIMO (Ant.G + Ant.F) / 5GHz MIMO (Ant.G + Ant.D)						
		a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)	
WiFi 2.4 GHz	DTS	Ch 1		18	18	18	18	16		21	21	21	21	19
		Ch 2 - 10		18	18	18	18	18		21	21	21	21	21
		Ch 11		18	16	16	16	16		21	19	19	19	19
		Ch 12		6	6	6	6	6		9	9	9	9	9
		Ch 13		0	0	0	0	0		3	3	3	3	3
WiFi 5 GHz (BW : 20MHz)	UNII-1	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-1 (Ch.36)	17.0			18.0	18.0	16.0	20.0			21.0	21.0	19.0	
	UNII-2A	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-2A (Ch.64)	17.0			18.0	18.0	16.0	20.0			21.0	21.0	19.0	
	UNII-2C	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-3	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
	UNII-4	18.0			18.0	18.0	18.0	21.0			21.0	21.0	21.0	
WiFi 5 GHz (BW : 40MHz)	UNII-1				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-1 (Ch.38)				16.0	16.0	16.0				19.0	19.0	19.0	
	UNII-2A				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-2A (Ch.62)				15.5	15.5	15.5				18.5	18.5	18.5	
	UNII-2C				18.0	18.0	18.0				21.0	21.0	21.0	
	UNII-2C (Ch.102)				16.0	16.0	16.0				19.0	19.0	19.0	
	UNII-3				18.0	18.0	18.0				21.0	21.0	21.0	
UNII-4				18.0	18.0	18.0				21.0	21.0	21.0		
WiFi 5 GHz (BW : 80MHz)	UNII-1					16.0	16.0					19.0	19.0	
	UNII-2A					16.0	16.0					19.0	19.0	
	UNII-2C					18.0	18.0					21.0	21.0	
	UNII-2C (Ch.106)					16.0	16.0					19.0	19.0	
	UNII-3					18.0	18.0					21.0	21.0	
	UNII-4					18.0	18.0					21.0	21.0	
WiFi 5 GHz (BW : 160MHz)	UNII-1 & 2A					16.0	16.0					19.0	19.0	
	UNII-2C					14.0	14.0					17.0	17.0	
	UNII-3 & 4					16.0	16.0					19.0	19.0	

Notes:

1. DTS/UNII has support SISO & MIMO mode.
2. WLAN has support RSDB operate. The RSDB scenarios refer to section.12 in report.

Bluetooth & Bluetooth LE maximum output power (Plimit of DSI 0,1,2,3)

RF Air interface	Maximum allowed output power (dBm) - Pmax & Plimit of DSI 0,1,2,3						
	PL11		PL10		PL9		Dual (only PL10 + PL10)
	Ant.G	Ant.F	Ant.G	Ant.F	Ant.G	Ant.F	Ant.G + F
Bluetooth (BDR) (1Mbps)	19.5	19.5	15.5	15.5	N/A	N/A	18.5
Bluetooth (EDR) (2Mbps)	16.5	16.5	13.0	13.0	N/A	N/A	16.0
Bluetooth (EDR) (3Mbps)	16.5	16.5	13.0	13.0	N/A	N/A	16.0
Bluetooth (LE) (1M)	19.5	19.5	15.5	15.0	11.0	11.0	18.0
Bluetooth (LE) (2M)	19.5	19.5	15.5	15.0	11.0	11.0	18.0
Bluetooth (LE) (125kbps)	N/A	N/A	N/A	N/A	11.0	11.0	N/A
Bluetooth (LE) (500kbps)	N/A	N/A	N/A	N/A	11.0	11.0	N/A

Notes:

- BT Antennas are work at the same time through only Dual mode operation.

6.5. DSI (Device State Index) Scenarios

This device supports multiple DSI Scenarios and Each DSIs operate to each RF exposure Conditions.

Please below table;

RF exposure Conditions	Technologies Supported	DSI conditions	DUT Configuration	Description
Head	WWAN/WLAN/BT bands	DSI = 3	Folder Closed	1. Next to the ear exposure condition. 2. Handset's Receiver(ear piece) is active during voice or VoIP call.
	WWAN/WLAN/BT bands	DSI = 2	Folder Opened	1. Next to the ear exposure condition. 2. Handset's Receiver(ear piece) is active during voice or VoIP call.
Body-worn & Hotspot	WWAN/WLAN/BT bands	DSI = 1	Folder Closed	1. Handsets supports Hotspot mode that Active near body. 2. Handsets are carried in body-worn accessories. 3. Hand use conditions for Handsets(Phablet).
Product Specific 10-g	WWAN/WLAN/BT bands			
Body	WWAN/WLAN/BT bands	DSI = 0	Folder Opened	1. UMPC-mini Tablet are designed for interactive hand-held use next to or near the body of users.
Extremity 10-g	WWAN/WLAN/BT bands	DSI = 0	Folder Opened	

Notes:

The device uses a hall effect sensor to determine if it is in the closed position or open position. The sensing mechanism has been validated, refer to Appendix I In addition it uses the RCVR status to determine if the device is being held to head (RCVR active) or not.

6.6. 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	1.4 MHz
	Low	18700/1860	18675/1857.5	18650/1855	18625/1852.5	18615/1851.5	18607/1850.7
	Mid	18900/1880	18900/1880	18900/1880	18900/1880	18900/1880	18900/1880
	High	19100/1900	19125/1902.5	19150/1905	19175/1907.5	19185/1908.5	19193/1909.3
	Band 4	Frequency range: 1710 - 1755 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/1720	20025/1717.5	20000/1715	19975/1712.5	19965/1711.5	19957/1710.7
	Mid	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5
	High	20300/1745	20325/1747.5	20350/1750	20375/1752.5	20385/1753.5	20393/1754.3
	Band 5	Frequency range: 824 - 849 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			20450/829	20425/826.5	20415/825.5	20407/824.7
	Mid			20525/836.5	20525/836.5	20525/836.5	20525/836.5
	High			20600/844	20625/846.5	20635/847.5	20643/848.3
	Band 12	Frequency range: 699 - 716 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			23060/704	23035/701.5	23025/700.5	23017/699.7
	Mid			23095/707.5	23095/707.5	23095/707.5	23095/707.5
	High			23130/711	23155/713.5	23165/714.5	23173/715.3
	Band 13	Frequency range: 777 - 787 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
Low				23205/779.5			
Mid			23230/782	23230/782			
High				23255/784.5			
Band 17	Frequency range: 704 - 716 MHz						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low			23780/709	23755/706.5			
Mid			23790/710	23790/710			
High			23800/711	23825/713.5			
Band 25	Frequency range: 1850 - 1915 MHz						
	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		26765/821.5	26740/819	26715/816.5	26705/815.5	26697/814.7	
Mid		26865/831.5	26865/831.5	26865/831.5	26865/831.5	26865/831.5	
High		26965/841.5	26990/844	27015/846.5	27025/847.5	27033/848.3	

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies	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					
	Band 66	Frequency range: 1710 - 1780 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
Low		132072/ 1720	132047/ 1717.5	132022/ 1715	131997/ 1712.5	131987/ 1711.5	131979/ 1710.7
Mid		132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745
High	132572/ 1770	132597/ 1772.5	132622/ 1775	132647/ 1777.5	132657/ 1778.5	132665/ 1779.3	
LTE transmitter and antenna implementation	Refer to Appendix A.						
Maximum power reduction (MPR)	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3						
	Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})					MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5
	MPR Built-in by design The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing						
Power reduction	Yes.						
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.						

Notes:

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

6.7. LTE (TDD) Considerations

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

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

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

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$20480 \cdot T_s$				
6	$19760 \cdot T_s$	$23040 \cdot T_s$				
7	$21952 \cdot T_s$	$12800 \cdot T_s$				
8	$24144 \cdot T_s$	-	-	-		
9	$13168 \cdot T_s$	-	-	-	-	

Calculated Duty Cycle

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

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

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
 Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$
 where
 $T_s = 1/(15000 \times 2048)$ seconds

Note(s):
 This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% duty cycle. Only LTE Band 41 Power Class 2 was used configuration 1 at 43.3% duty cycle for SAR testing.

6.8. NR (Sub 6GHz) SAR Test and Reporting Considerations

Item	Description															
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band n2	Frequency range: 1850 - 1910 MHz														
		Channel Bandwidth														
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz	
	Low							374000/ 1870	373500/ 1867.5	373000/ 1865	372500/ 1862.5	372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5	
	Mid							376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	
	High							378000/ 1890	378500/ 1892.5	379000/ 1895	379500/ 1897.5	380000/ 1900	380500/ 1902.5	381000/ 1905	381500/ 1907.5	
	Band n5	Frequency range: 824 - 849 MHz														
		Channel Bandwidth														
	Low												166800/ 834	166300/ 831.5	165800/ 829	165300/ 826.5
	Mid												167300/ 836.5	167300/ 836.5	167300/ 836.5	167300/ 836.5
High												167800/ 839	168300/ 841.5	168800/ 844	169300/ 846.5	
Band n25	Frequency range: 1850 - 1915 MHz															
	Channel Bandwidth															
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz	
	Low							374000/ 1870	373500/ 1867.5	373000/ 1865	372500/ 1862.5	372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5	
	Mid							376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	
	High							379000/ 1895	379500/ 1897.5	380000/ 1900	380500/ 1902.5	381000/ 1905	381500/ 1907.5	382000/ 1910	382500/ 1912.5	
	Band n41	Frequency range: 2496 - 2690 MHz														
		Channel Bandwidth														
			100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
		Low	509202/ 2546.01	508200/ 2541	507204/ 2536.02	506202/ 2531.01	505200/ 2526	504204/ 2512.02	503202/ 2516.01		552200/ 2511	501696/ 2508.48	501204/ 2506.02	500700/ 2503.5	500202/ 2501.01	
Low-Mid								516468/ 2567.34		510402/ 2552.01	510150/ 2550.75	509898/ 2549.49	509652/ 2548.26	509400/ 2547		
Mid		518598/ 2592.99				518598/ 2592.99	518598/ 2592.99			518598/ 2592.99	518598/ 2592.99	518598/ 2592.99	518598/ 2592.99	518598/ 2592.99		
Mid-High		528000/ 2640	528996/ 2644.98	529998/ 2649.99	531000/ 2655	529998/ 2649.99	523734/ 2618.67	523734/ 2618.67		526800/ 2634	527046/ 2635.23	527298/ 2636.49	527550/ 2637.75	527802/ 2639.01		
High								534000/ 2670		534996/ 2674.98	535500/ 2677.5	535998/ 2679.99	536496/ 2682.48	537000/ 2685		
Band n66		Frequency range: 1710 - 1780 MHz														
		Channel Bandwidth														
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz	
	Low							346000/ 1730	345500/ 1727.5	345000/ 1725	344500/ 1722.5	344000/ 1720	343500/ 1717.5	343000/ 1715	342500/ 1712.5	
	Mid							349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	
	High							352000/ 1760	352500/ 1762.5	353000/ 1765	353500/ 1767.5	354000/ 1770	354500/ 1772.5	355000/ 1775	355500/ 1777.5	
	Band n77 -DoD-	Frequency range: 3450 - 3550 MHz														
		Channel Bandwidth														
			100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
		Low						631668/ 3475.02	631334/ 3470.01		631000/ 3465	630866/ 3462.99	630668/ 3460.02	630500/ 3457.5	630334/ 3455.01	
Mid		633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01				633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01		
High							635000/ 3525	635332/ 3529.98		635666/ 3534.99	635800/ 3537	636000/ 3540	636166/ 3542.49	636332/ 3544.98		
Band n77		Frequency range: 3700 - 3980 MHz														
		Channel Bandwidth														
			100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
		Low	650000 /3750	649668 /3745.02	649334 /3740.01	649000/ 3735	648668 /3730.02	648334 /3725.01	648000 /3720		647668/ 3715.02	647500/ 3712.5	647334 /3710.01	647168/ 3707.52	647000/ 3705	
	Low-Mid				653666/ 3804.99	653556 /3803.34	652166 /3782.49	651200 /3768		651000/ 3765	650900/ 3763.5	650800 /3762	650700/ 3760.5	650600/ 3759		
	Mid-A		656000 /3840	656000 /3840				656000 /3840		654400 /3816	654300/ 3815.01	654266 /3814.5	654234 /3813.99	654200 /3813.51	654234 /3813	
	Mid-B							657600 /3864		657666/ 3864.99	657700/ 3814.5	657734 /3866.01	657766/ 3866.49	657800 /3867		
	Mid-High	662000 /3930	662332 /3934.98	662666 /3939.99	658334/ 3875.01	658444 /3876.66	659834 /3897.51	660800 /3912		661000/ 3915	661100/ 3916.5	661200 /3918	661300/ 3919.5	661400/ 3921		
	High				663000/ 3945	663332 /3949.98	663666 /3954.99	664000 /3960		664332/ 3964.98	664500/ 3967.5	664666 /3969.99	664832/ 3972.48	665000/ 3975		

NR (Sub 6GHz) SAR Test and Reporting Considerations (Continued)

SCS	NR FDD Bands : 15 kHz, NR TDD Bands : 30kHz
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM & CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
EN-DC Carrier Aggregation Possible Combinations	
NR Band n2	LTE Band 5/12/13
NR Band n5	LTE Band 2/66
NR Band n25	LTE Band 12/13
NR Band n41	LTE Band 4/12/66
NR Band n66	LTE Band 2/5/12/13
NR Band n77	LTE Band 2/5/12/13/25/66

Notes:

- SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, Due to test setup limitations, NR TDD' SAR testing was performed using test mode software to establish the connection. And NR FDD's SAR testing was performed using Call box. Call box setup refer to Sec.9.4 in report.
- NR configurations of SAR test were determined according to Section 5.2 of KDB 941225 D05.

6.9. Dynamic Antenna tuner testing

This Device applies Qualcomm chipset solution's Dynamic Antenna tuning technology to some 3G /4G /5G sub6 bands. (WCDMA B5/ LTE B5/B12/B13/B26 NR Band n5)

Dynamic Antenna tuning was tested in accordance with the April 2019 FCC TCBC Workshop notes.

Per 2019, April TCBC Workshop document

- SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
- Additional single point SAR (time-sweep) measurements were evaluated for other tuner states to determine that the other configurations would result in equivalent or lower SAR values.
- Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
- Total number tuner states divided evenly among each supported band / air interface and exposure condition combination. If any single point SAR measurement result is > 1.2 W/kg for a band / exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination. Tuner state is established remotely so that the device is not moved for the entire series of single point SAR measurements for the tuner states in each combination.

The following test procedures were followed to demonstrate that the SAR results in Section 10 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuning active to allow the device to automatically to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other impedance matching.

To evaluate all the tuner states, the 144 tuner states were divided among the aggregate band, mode and exposure combinations so that each combination was evaluated for at least 12 tuner states and also so that at least 2 single point SAR measurements were made for every available tuner state. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all 144 tuner states.

The Evaluation of Dynamic antenna tuner was only evaluated for the band with the larger transmission frequency range. The operational description contains more information about the design and implementation of the dynamic antenna tuning.

Note(s):

All test results are refer to Appendix H "Dynamic Antenna tuner testing".

7. RF Exposure Conditions (Test Configurations)

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

Folder Closed (Phablet mode)

Wireless technologies	RF Exposure Conditions	Antennaa	DUT-to-User Separation	Test Positions			
				Right Touch	Right Tilt	Left Touch	Left Tilt
WWAN & WLAN/BT	Head	All WWAN/WLAN/BT Antennas (Ant.A/A+B/B/C/D/E/F/G)	0 mm	Yes	Yes	Yes	Yes

Wireless technologies	RF Exposure Conditions	Antennaa	DUT-to-User Separation	Test Positions					
				Rear	Front	Top	Left	Bottom	Right
WWAN	Body-worn & Hotspot	Ant.A	10 mm	Yes	Yes	No	No	Yes	Yes
		Ant.A+B	10 mm	Yes	Yes	No	Yes	Yes	Yes
		Ant.B	10 mm	Yes	Yes	No	Yes	Yes	Yes
		Ant.C	10 mm	Yes	Yes	No	Yes	Yes	No
		Ant.D	10 mm	Yes	Yes	Yes	No	No	Yes
		Ant.E	10 mm	Yes	Yes	Yes	Yes	No	No
		Ant.F	10 mm	Yes	Yes	Yes	Yes	No	Yes
		Ant.G	10 mm	Yes	Yes	No	No	No	Yes
	Product Specific 10-g	All WWAN Antennas (Ant.A/A+B/B/C/D/E/F/G)	0 mm	Refer to note 2 and 3.					
WLAN/BT	Body-worn & Hotspot	Ant.D	10 mm	Yes	Yes	Yes	No	No	Yes
		Ant.G	10 mm	Yes	Yes	No	No	No	Yes
		Ant.F	10 mm	Yes	Yes	Yes	Yes	No	Yes
	Product Specific 10-g	All WLAN/BT Antennas (Ant.D/G/F)	0 mm	Refer to note 2 and 4.					
NFC	Product Specific 10-g	NFC Ant.	0 mm	Yes	Yes	Yes	Yes	No	No

Notes:

- For Hotspot exposure condition, SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
- For Phablet devices: When hotspot mode applies, Product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.
- For Phablet devices: When hotspot mode applies and power reduction applies to hotspot mode, Product specific 10-g SAR is required for each test position that has and adjusted SAR to maximum power that is > 1.2 W/kg.
- For Phablet devices: When hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
- Per manufacturer guide, NFC SAR was considered about only hand held condition (Product Specific 10-g).
- For Body-worn exposure condition, SAR test is considered for Rear and Front test positions.
- For Head exposure condition, All WWAN/WLAN/BT Antennas are required Head SAR test.

Folder Opened (UMPC-mimi tablet mode)

Wireless technologies	RF Exposure Conditions	Antenaa	DUT-to-User Separation	Test Positions					
				Rear	Front	Top	Left	Bottom	Right
WWAN	1g Body / 10g Extremity	Ant.A	10 mm / 0mm	Yes	Yes	No	No	Yes	Yes
		Ant.A+B	10 mm / 0mm	Yes	Yes	No	No	Yes	Yes
		Ant.B	10 mm / 0mm	Yes	Yes	No	No	Yes	Yes
		Ant.C	10 mm / 0mm	Yes	Yes	No	No	Yes	No
		Ant.D	10 mm / 0mm	Yes	Yes	Yes	No	No	Yes
		Ant.E	10 mm / 0mm	Yes	Yes	Yes	No	No	No
		Ant.F	10 mm / 0mm	Yes	Yes	Yes	No	No	Yes
		Ant.G	10 mm / 0mm	Yes	Yes	No	No	No	Yes
WLAN/BT	1g Body / 10g Extremity	Ant.D	10 mm / 0mm	Yes	Yes	Yes	No	No	Yes
		Ant.G	10 mm / 0mm	Yes	Yes	No	No	No	Yes
		Ant.F	10 mm / 0mm	Yes	Yes	Yes	No	No	Yes
NFC	10g Extremity	NFC Ant.	0 mm	Yes	Yes	Yes	No	No	No

Notes:

- SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D07 UMPC mini-tablet SAR.
- Per FCC guide, UMPC mini-tablet SAR evaluated at 1-g body at 10mm and 10-g extremity at 0mm.
- Per manufacturer guide, NFC SAR was considered about only hand held condition (extremity 10-g).

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 Tissue Dielectric parameters (100MHz to 6GHz) 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.

For The Tissue Dielectric parameters (4MHz to 30MHz). The parameters must be measured before 24 hours.

1. Tissue Dielectric Parameters (100MHz to 6GHz)

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head	
	ϵ_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800 – 2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5000	36.2	4.45
5100	36.1	4.55
5200	36.0	4.66
5300	35.9	4.76
5400	35.8	4.86
5500	35.6	4.96
5600	35.5	5.07
5700	35.4	5.17
5800	35.3	5.27
6000	35.1	5.48

SAR test were performed in All RF exposure conditions using Head tissue according to TCB workshop note of April. 2019.

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

2. Tissue Dielectric Parameters (4MHz to 30MHz)

Target Frequency (MHz)	Head	
	ϵ_r	σ (S/m)
4	55.0	0.75
13	55.0	0.75
30	55.0	0.75

IEC_IEEE Std 62209-1528 : 2020

Refer to Table 2 within the IEC_IEEE Std 62209-1528 : 2020.

**Dielectric Property Measurements Results:
SAR 2 Room**

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
4-5-2024	Head 2450	e'	39.5600	Relative Permittivity (ϵ_r):	39.56	39.20	0.92	5
		e"	12.7300	Conductivity (σ):	1.73	1.80	-3.66	5
	Head 2400	e'	39.6200	Relative Permittivity (ϵ_r):	39.62	39.30	0.82	5
		e"	12.7300	Conductivity (σ):	1.70	1.75	-3.02	5
	Head 2500	e'	39.5000	Relative Permittivity (ϵ_r):	39.50	39.14	0.93	5
		e"	12.7300	Conductivity (σ):	1.77	1.85	-4.56	5
4-9-2024	Head 2450	e'	38.5100	Relative Permittivity (ϵ_r):	38.51	39.20	-1.76	5
		e"	13.3300	Conductivity (σ):	1.82	1.80	0.88	5
	Head 2400	e'	38.5400	Relative Permittivity (ϵ_r):	38.54	39.30	-1.93	5
		e"	13.3100	Conductivity (σ):	1.78	1.75	1.40	5
	Head 2500	e'	38.5100	Relative Permittivity (ϵ_r):	38.51	39.14	-1.60	5
		e"	13.3500	Conductivity (σ):	1.86	1.85	0.09	5
4-14-2024	Head 750	e'	41.0800	Relative Permittivity (ϵ_r):	40.58	41.96	-3.29	5
		e"	21.5500	Conductivity (σ):	0.91	0.89	1.89	5
	Head 660	e'	41.2900	Relative Permittivity (ϵ_r):	40.88	42.42	-3.64	5
		e"	23.7100	Conductivity (σ):	0.88	0.89	-0.58	5
	Head 800	e'	40.9100	Relative Permittivity (ϵ_r):	40.45	41.71	-3.01	5
		e"	20.5600	Conductivity (σ):	0.93	0.90	3.58	5
4-14-2024	Head 835	e'	40.8300	Relative Permittivity (ϵ_r):	40.33	41.50	-2.82	5
		e"	19.9300	Conductivity (σ):	0.94	0.90	4.61	5
	Head 810	e'	40.8800	Relative Permittivity (ϵ_r):	40.41	41.65	-2.99	5
		e"	20.3800	Conductivity (σ):	0.93	0.90	3.90	5
	Head 850	e'	40.7900	Relative Permittivity (ϵ_r):	40.28	41.50	-2.94	5
		e"	19.6600	Conductivity (σ):	0.95	0.92	3.50	5
4-22-2024	Head 2600	e'	38.9500	Relative Permittivity (ϵ_r):	37.75	39.01	-3.23	5
		e"	13.4500	Conductivity (σ):	1.91	1.96	-2.51	5
	Head 2495	e'	39.0500	Relative Permittivity (ϵ_r):	37.94	39.14	-3.07	5
		e"	13.4400	Conductivity (σ):	1.84	1.85	-0.63	5
	Head 2700	e'	38.7800	Relative Permittivity (ϵ_r):	37.62	38.88	-3.25	5
		e"	13.5000	Conductivity (σ):	1.98	2.07	-4.41	5
4-26-2024	Head 2600	e'	38.9500	Relative Permittivity (ϵ_r):	39.87	39.01	2.20	5
		e"	13.4500	Conductivity (σ):	1.92	1.96	-2.15	5
	Head 2495	e'	39.0500	Relative Permittivity (ϵ_r):	40.01	39.14	2.21	5
		e"	13.4400	Conductivity (σ):	1.84	1.85	-0.58	5
	Head 2700	e'	38.7800	Relative Permittivity (ϵ_r):	39.72	38.88	2.15	5
		e"	13.5000	Conductivity (σ):	2.01	2.07	-3.15	5
4-30-2024	Head 2450	e'	38.5100	Relative Permittivity (ϵ_r):	38.49	39.20	-1.81	5
		e"	13.3300	Conductivity (σ):	1.82	1.80	0.89	5
	Head 2400	e'	38.5400	Relative Permittivity (ϵ_r):	38.63	39.30	-1.70	5
		e"	13.3100	Conductivity (σ):	1.78	1.75	1.56	5
	Head 2500	e'	38.5100	Relative Permittivity (ϵ_r):	38.44	39.14	-1.78	5
		e"	13.3500	Conductivity (σ):	1.86	1.85	0.16	5

SAR 3 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)		
4-13-2024	Head 3500	e'	37.9900	Relative Permittivity (ϵ_r):	37.99	37.93	0.16	5	
		e"	15.0800	Conductivity (σ):	2.93	2.91	0.79	5	
	Head 3600	e'	37.8100	Relative Permittivity (ϵ_r):	37.81	37.82	-0.01	5	
		e"	15.1800	Conductivity (σ):	3.04	3.01	0.82	5	
	Head 3700	e'	37.6300	Relative Permittivity (ϵ_r):	37.63	37.70	-0.19	5	
		e"	15.2600	Conductivity (σ):	3.14	3.12	0.75	5	
	Head 3800	e'	37.4500	Relative Permittivity (ϵ_r):	37.45	37.59	-0.37	5	
		e"	15.3500	Conductivity (σ):	3.24	3.22	0.77	5	
	Head 3900	e'	37.2800	Relative Permittivity (ϵ_r):	37.28	37.47	-0.52	5	
		e"	15.4400	Conductivity (σ):	3.35	3.32	0.82	5	
	Head 3980	e'	37.1600	Relative Permittivity (ϵ_r):	37.16	37.38	-0.59	5	
		e"	15.5000	Conductivity (σ):	3.43	3.40	0.81	5	
	4-17-2024	Head 3500	e'	38.2800	Relative Permittivity (ϵ_r):	38.28	37.93	0.92	5
			e"	15.0700	Conductivity (σ):	2.93	2.91	0.73	5
Head 3600		e'	38.1000	Relative Permittivity (ϵ_r):	38.10	37.82	0.75	5	
		e"	15.1800	Conductivity (σ):	3.04	3.01	0.82	5	
Head 3700		e'	37.9200	Relative Permittivity (ϵ_r):	37.92	37.70	0.58	5	
		e"	15.2600	Conductivity (σ):	3.14	3.12	0.75	5	
Head 3800		e'	37.7400	Relative Permittivity (ϵ_r):	37.74	37.59	0.41	5	
		e"	15.3500	Conductivity (σ):	3.24	3.22	0.77	5	
Head 3900		e'	37.5700	Relative Permittivity (ϵ_r):	37.57	37.47	0.26	5	
		e"	15.4400	Conductivity (σ):	3.35	3.32	0.82	5	
Head 3980		e'	37.4400	Relative Permittivity (ϵ_r):	37.44	37.38	0.16	5	
		e"	15.5000	Conductivity (σ):	3.43	3.40	0.81	5	
4-23-2024		Head 3500	e'	37.1300	Relative Permittivity (ϵ_r):	37.13	37.93	-2.11	5
			e"	14.4000	Conductivity (σ):	2.80	2.91	-3.75	5
	Head 3600	e'	36.9500	Relative Permittivity (ϵ_r):	36.95	37.82	-2.29	5	
		e"	14.6600	Conductivity (σ):	2.93	3.01	-2.63	5	
	Head 3700	e'	36.8400	Relative Permittivity (ϵ_r):	36.84	37.70	-2.28	5	
		e"	14.8700	Conductivity (σ):	3.06	3.12	-1.83	5	
	Head 3800	e'	36.5800	Relative Permittivity (ϵ_r):	36.58	37.59	-2.68	5	
		e"	15.0700	Conductivity (σ):	3.18	3.22	-1.07	5	
	Head 3900	e'	36.2200	Relative Permittivity (ϵ_r):	36.22	37.47	-3.34	5	
		e"	15.0800	Conductivity (σ):	3.27	3.32	-1.53	5	
	Head 3980	e'	36.1100	Relative Permittivity (ϵ_r):	36.11	37.38	-3.40	5	
		e"	15.2400	Conductivity (σ):	3.37	3.40	-0.88	5	
	4-27-2024	Head 1900	e'	40.1600	Relative Permittivity (ϵ_r):	40.16	40.00	0.40	5
			e"	12.9100	Conductivity (σ):	1.36	1.40	-2.58	5
Head 1850		e'	40.2100	Relative Permittivity (ϵ_r):	40.21	40.00	0.53	5	
		e"	13.0400	Conductivity (σ):	1.34	1.40	-4.19	5	
Head 1915		e'	40.1400	Relative Permittivity (ϵ_r):	40.14	40.00	0.35	5	
		e"	12.8900	Conductivity (σ):	1.37	1.40	-1.96	5	
4-29-2024	Head 3500	e'	36.8700	Relative Permittivity (ϵ_r):	36.87	37.93	-2.79	5	
		e"	15.4800	Conductivity (σ):	3.01	2.91	3.47	5	
	Head 3600	e'	36.6800	Relative Permittivity (ϵ_r):	36.68	37.82	-3.00	5	
		e"	15.5100	Conductivity (σ):	3.10	3.01	3.01	5	
	Head 3700	e'	36.5500	Relative Permittivity (ϵ_r):	36.55	37.70	-3.05	5	
		e"	15.5500	Conductivity (σ):	3.20	3.12	2.66	5	
	Head 3800	e'	36.4200	Relative Permittivity (ϵ_r):	36.42	37.59	-3.11	5	
		e"	15.6000	Conductivity (σ):	3.30	3.22	2.41	5	
	Head 3900	e'	36.2900	Relative Permittivity (ϵ_r):	36.29	37.47	-3.16	5	
		e"	15.6600	Conductivity (σ):	3.40	3.32	2.26	5	
	Head 3980	e'	36.2000	Relative Permittivity (ϵ_r):	36.20	37.38	-3.16	5	
		e"	15.7100	Conductivity (σ):	3.48	3.40	2.17	5	
	5-2-2024	Head 750	e'	42.4200	Conductivity (σ):	42.42	41.96	1.09	5
			e"	21.5200	Conductivity (σ):	0.90	0.89	0.49	5
Head 660		e'	42.7100	Relative Permittivity (ϵ_r):	42.71	42.42	0.68	5	
		e"	23.4300	Conductivity (σ):	0.86	0.89	-2.97	5	
Head 800		e'	42.2800	Relative Permittivity (ϵ_r):	42.28	41.71	1.38	5	
		e"	20.7800	Conductivity (σ):	0.92	0.90	3.06	5	

SAR 4 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
2-29-2024	Head 750	e'	42.2900	Relative Permittivity (ϵ_r):	42.29	41.96	0.78	5
		e"	21.4900	Conductivity (σ):	0.90	0.89	0.35	5
	Head 660	e'	42.6200	Relative Permittivity (ϵ_r):	42.62	42.42	0.46	5
		e"	23.7300	Conductivity (σ):	0.87	0.89	-1.73	5
	Head 800	e'	42.1600	Relative Permittivity (ϵ_r):	42.16	41.71	1.09	5
		e"	20.5200	Conductivity (σ):	0.91	0.90	1.77	5
2-29-2024	Head 835	e'	42.0600	Relative Permittivity (ϵ_r):	42.06	41.50	1.35	5
		e"	19.8300	Conductivity (σ):	0.92	0.90	2.30	5
	Head 810	e'	42.1400	Relative Permittivity (ϵ_r):	42.14	41.65	1.17	5
		e"	20.3100	Conductivity (σ):	0.91	0.90	1.90	5
	Head 850	e'	42.0100	Relative Permittivity (ϵ_r):	42.01	41.50	1.23	5
		e"	19.5700	Conductivity (σ):	0.92	0.92	1.09	5
3-1-2024	Head 835	e'	41.0100	Relative Permittivity (ϵ_r):	41.01	41.50	-1.18	5
		e"	19.3000	Conductivity (σ):	0.90	0.90	-0.44	5
	Head 810	e'	41.0700	Relative Permittivity (ϵ_r):	41.07	41.65	-1.40	5
		e"	19.8900	Conductivity (σ):	0.90	0.90	-0.21	5
	Head 850	e'	40.9300	Relative Permittivity (ϵ_r):	40.93	41.50	-1.37	5
		e"	19.1700	Conductivity (σ):	0.91	0.92	-0.98	5
3-5-2024	Head 750	e'	40.6800	Relative Permittivity (ϵ_r):	40.68	41.96	-3.05	5
		e"	21.7300	Conductivity (σ):	0.91	0.89	1.47	5
	Head 660	e'	40.9100	Relative Permittivity (ϵ_r):	40.91	42.42	-3.57	5
		e"	24.0200	Conductivity (σ):	0.88	0.89	-0.53	5
	Head 800	e'	40.5900	Relative Permittivity (ϵ_r):	40.59	41.71	-2.67	5
		e"	20.7900	Conductivity (σ):	0.92	0.90	3.11	5
3-5-2024	Head 835	e'	40.4900	Relative Permittivity (ϵ_r):	40.49	41.50	-2.43	5
		e"	20.1600	Conductivity (σ):	0.94	0.90	4.00	5
	Head 810	e'	40.5700	Relative Permittivity (ϵ_r):	40.57	41.65	-2.60	5
		e"	20.6100	Conductivity (σ):	0.93	0.90	3.40	5
	Head 850	e'	40.4200	Relative Permittivity (ϵ_r):	40.42	41.50	-2.60	5
		e"	19.9000	Conductivity (σ):	0.94	0.92	2.79	5
3-11-2024	Head 2600	e'	39.0100	Relative Permittivity (ϵ_r):	39.01	39.01	0.00	5
		e"	13.4100	Conductivity (σ):	1.94	1.96	-1.20	5
	Head 2495	e'	39.1500	Relative Permittivity (ϵ_r):	39.15	39.14	0.02	5
		e"	13.4900	Conductivity (σ):	1.87	1.85	1.23	5
	Head 2700	e'	38.8600	Relative Permittivity (ϵ_r):	38.86	38.88	-0.06	5
		e"	13.2900	Conductivity (σ):	2.00	2.07	-3.63	5
3-11-2024	Head 5200	e'	35.2400	Relative Permittivity (ϵ_r):	35.24	35.99	-2.08	5
		e"	15.7100	Conductivity (σ):	4.54	4.65	-2.34	5
	Head 5250	e'	35.1400	Relative Permittivity (ϵ_r):	35.14	35.93	-2.21	5
		e"	15.7500	Conductivity (σ):	4.60	4.70	-2.22	5
	Head 5600	e'	34.4900	Relative Permittivity (ϵ_r):	34.49	35.53	-2.94	5
		e"	16.0000	Conductivity (σ):	4.98	5.06	-1.55	5
	Head 5750	e'	34.2200	Relative Permittivity (ϵ_r):	34.22	35.36	-3.23	5
		e"	16.1200	Conductivity (σ):	5.15	5.21	-1.15	5
	Head 5800	e'	34.1200	Relative Permittivity (ϵ_r):	34.12	35.30	-3.34	5
		e"	16.1600	Conductivity (σ):	5.21	5.27	-1.11	5
	Head 5925	e'	33.8900	Relative Permittivity (ϵ_r):	33.89	35.20	-3.72	5
		e"	16.2400	Conductivity (σ):	5.35	5.40	-0.92	5
3-15-2024	Head 2600	e'	38.9300	Relative Permittivity (ϵ_r):	38.93	39.01	-0.21	5
		e"	13.2400	Conductivity (σ):	1.91	1.96	-2.45	5
	Head 2495	e'	39.0400	Relative Permittivity (ϵ_r):	39.04	39.14	-0.26	5
		e"	13.2300	Conductivity (σ):	1.84	1.85	-0.72	5
	Head 2700	e'	38.8300	Relative Permittivity (ϵ_r):	38.83	38.88	-0.14	5
		e"	13.3400	Conductivity (σ):	2.00	2.07	-3.26	5
4-15-2024	Head 750	e'	41.6300	Relative Permittivity (ϵ_r):	41.63	41.96	-0.79	5
		e"	21.3700	Conductivity (σ):	0.89	0.89	-0.21	5
	Head 660	e'	41.9300	Relative Permittivity (ϵ_r):	41.93	42.42	-1.16	5
		e"	23.5000	Conductivity (σ):	0.86	0.89	-2.68	5
	Head 800	e'	41.5600	Relative Permittivity (ϵ_r):	41.56	41.71	-0.35	5
		e"	20.3700	Conductivity (σ):	0.91	0.90	1.02	5

SAR 4 Room_(Continued)

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
4-15-2024	Head 835	e'	41.5200	Relative Permittivity (ε _r):	41.52	41.50	0.05	5
		e"	19.8300	Conductivity (σ):	0.92	0.90	2.30	5
	Head 810	e'	41.5600	Relative Permittivity (ε _r):	41.56	41.65	-0.23	5
		e"	20.2000	Conductivity (σ):	0.91	0.90	1.35	5
	Head 850	e'	41.4700	Relative Permittivity (ε _r):	41.47	41.50	-0.07	5
		e"	19.6100	Conductivity (σ):	0.93	0.92	1.29	5
4-17-2024	Head 1750	e'	38.5800	Relative Permittivity (ε _r):	38.58	40.08	-3.75	5
		e"	13.8200	Conductivity (σ):	1.34	1.37	-1.77	5
	Head 1695	e'	38.7600	Relative Permittivity (ε _r):	38.76	40.17	-3.51	5
		e"	13.9000	Conductivity (σ):	1.31	1.34	-2.09	5
	Head 1780	e'	38.4700	Relative Permittivity (ε _r):	38.47	40.04	-3.92	5
		e"	13.7500	Conductivity (σ):	1.36	1.39	-1.80	5
4-17-2024	Head 1900	e'	38.3000	Relative Permittivity (ε _r):	38.30	40.00	-4.25	5
		e"	13.5500	Conductivity (σ):	1.43	1.40	2.25	5
	Head 1850	e'	38.3800	Relative Permittivity (ε _r):	38.38	40.00	-4.05	5
		e"	13.6300	Conductivity (σ):	1.40	1.40	0.15	5
	Head 1915	e'	38.2900	Relative Permittivity (ε _r):	38.29	40.00	-4.28	5
		e"	13.5500	Conductivity (σ):	1.44	1.40	3.06	5
4-19-2024	Head 750	e'	42.0300	Relative Permittivity (ε _r):	42.03	41.96	0.16	5
		e"	21.1300	Conductivity (σ):	0.88	0.89	-1.33	5
	Head 660	e'	42.4700	Relative Permittivity (ε _r):	42.47	42.42	0.11	5
		e"	23.2000	Conductivity (σ):	0.85	0.89	-3.92	5
	Head 800	e'	41.9500	Relative Permittivity (ε _r):	41.95	41.71	0.59	5
		e"	20.1700	Conductivity (σ):	0.90	0.90	0.03	5
4-19-2024	Head 835	e'	41.8100	Relative Permittivity (ε _r):	41.81	41.50	0.75	5
		e"	19.5200	Conductivity (σ):	0.91	0.90	0.70	5
	Head 810	e'	41.9100	Relative Permittivity (ε _r):	41.91	41.65	0.61	5
		e"	19.9700	Conductivity (σ):	0.90	0.90	0.19	5
	Head 850	e'	41.7900	Relative Permittivity (ε _r):	41.79	41.50	0.70	5
		e"	19.3200	Conductivity (σ):	0.91	0.92	-0.21	5
4-23-2024	Head 750	e'	43.6300	Relative Permittivity (ε _r):	43.63	41.96	3.98	5
		e"	21.7900	Conductivity (σ):	0.91	0.89	1.75	5
	Head 660	e'	43.8900	Relative Permittivity (ε _r):	43.89	42.42	3.46	5
		e"	23.9800	Conductivity (σ):	0.88	0.89	-0.69	5
	Head 800	e'	43.5000	Relative Permittivity (ε _r):	43.50	41.71	4.30	5
		e"	20.8000	Conductivity (σ):	0.93	0.90	3.16	5
4-23-2024	Head 835	e'	43.4300	Relative Permittivity (ε _r):	43.43	41.50	4.65	5
		e"	20.1700	Conductivity (σ):	0.94	0.90	4.05	5
	Head 810	e'	43.4800	Relative Permittivity (ε _r):	43.48	41.65	4.38	5
		e"	20.6100	Conductivity (σ):	0.93	0.90	3.40	5
	Head 850	e'	43.4000	Relative Permittivity (ε _r):	43.40	41.50	4.58	5
		e"	19.9300	Conductivity (σ):	0.94	0.92	2.94	5
4-27-2024	Head 835	e'	40.0200	Relative Permittivity (ε _r):	40.02	41.50	-3.57	5
		e"	20.1600	Conductivity (σ):	0.94	0.90	4.00	5
	Head 810	e'	40.0900	Relative Permittivity (ε _r):	40.09	41.65	-3.75	5
		e"	20.5900	Conductivity (σ):	0.93	0.90	3.30	5
	Head 850	e'	39.9700	Relative Permittivity (ε _r):	39.97	41.50	-3.69	5
		e"	19.9100	Conductivity (σ):	0.94	0.92	2.84	5
4-30-2024	Head 750	e'	42.5300	Relative Permittivity (ε _r):	42.53	41.96	1.35	5
		e"	21.8300	Conductivity (σ):	0.91	0.89	1.94	5
	Head 660	e'	42.5300	Relative Permittivity (ε _r):	42.53	42.42	0.25	5
		e"	23.9200	Conductivity (σ):	0.88	0.89	-0.94	5
	Head 800	e'	42.5800	Relative Permittivity (ε _r):	42.58	41.71	2.10	5
		e"	20.9100	Conductivity (σ):	0.93	0.90	3.70	5
5-1-2024	Head 750	e'	43.1600	Relative Permittivity (ε _r):	43.16	41.96	2.86	5
		e"	22.2600	Conductivity (σ):	0.93	0.89	3.94	5
	Head 660	e'	43.4000	Relative Permittivity (ε _r):	43.40	42.42	2.30	5
		e"	24.2200	Conductivity (σ):	0.89	0.89	0.30	5
	Head 800	e'	42.7800	Relative Permittivity (ε _r):	42.78	41.71	2.58	5
		e"	20.4300	Conductivity (σ):	0.91	0.90	1.32	5
5-1-2024	Head 835	e'	41.3400	Relative Permittivity (ε _r):	41.34	41.50	-0.39	5
		e"	19.4500	Conductivity (σ):	0.90	0.90	0.34	5
	Head 810	e'	41.4000	Relative Permittivity (ε _r):	41.40	41.65	-0.61	5
		e"	19.9100	Conductivity (σ):	0.90	0.90	-0.11	5
	Head 850	e'	41.2700	Relative Permittivity (ε _r):	41.27	41.50	-0.55	5
		e"	19.2300	Conductivity (σ):	0.91	0.92	-0.67	5
5-1-2024	Head 835	e'	42.6900	Relative Permittivity (ε _r):	42.69	41.50	2.87	5
		e"	19.8800	Conductivity (σ):	0.92	0.90	2.56	5
	Head 810	e'	42.7700	Relative Permittivity (ε _r):	42.77	41.65	2.68	5
		e"	20.2700	Conductivity (σ):	0.91	0.90	1.70	5
	Head 850	e'	42.6300	Relative Permittivity (ε _r):	42.63	41.50	2.72	5
		e"	19.6500	Conductivity (σ):	0.93	0.92	1.50	5

SAR 5 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)		
3-6-2024	Head 1750	e'	39.5400	Relative Permittivity (ϵ_r):	39.54	40.08	-1.36	5	
		e"	14.0300	Conductivity (σ):	1.37	1.37	-0.28	5	
	Head 1710	e'	39.6900	Relative Permittivity (ϵ_r):	39.69	40.15	-1.14	5	
		e"	14.1500	Conductivity (σ):	1.35	1.35	-0.07	5	
	Head 1780	e'	39.4700	Relative Permittivity (ϵ_r):	39.47	40.04	-1.42	5	
		e"	13.9600	Conductivity (σ):	1.38	1.39	-0.30	5	
3-6-2024	Head 1900	e'	39.2400	Relative Permittivity (ϵ_r):	39.24	40.00	-1.90	5	
		e"	13.5900	Conductivity (σ):	1.44	1.40	2.55	5	
	Head 1850	e'	39.2900	Relative Permittivity (ϵ_r):	39.29	40.00	-1.78	5	
		e"	13.7600	Conductivity (σ):	1.42	1.40	1.10	5	
	Head 1915	e'	39.2400	Relative Permittivity (ϵ_r):	39.24	40.00	-1.90	5	
		e"	13.5500	Conductivity (σ):	1.44	1.40	3.06	5	
3-25-2024	Head 2600	e'	38.9800	Relative Permittivity (ϵ_r):	38.98	39.01	-0.08	5	
		e"	13.9500	Conductivity (σ):	2.02	1.96	2.78	5	
	Head 2495	e'	39.1000	Relative Permittivity (ϵ_r):	39.10	39.14	-0.11	5	
		e"	13.9600	Conductivity (σ):	1.94	1.85	4.76	5	
	Head 2700	e'	38.8700	Relative Permittivity (ϵ_r):	38.87	38.88	-0.04	5	
		e"	14.0700	Conductivity (σ):	2.11	2.07	2.03	5	
4-17-2024	Head 5180	e'	35.1900	Relative Permittivity (ϵ_r):	35.19	36.01	-2.29	5	
		e"	15.7400	Conductivity (σ):	4.53	4.63	-2.10	5	
	Head 5200	e'	35.1500	Relative Permittivity (ϵ_r):	35.15	35.99	-2.33	5	
		e"	15.7700	Conductivity (σ):	4.56	4.65	-1.96	5	
	Head 5600	e'	34.5500	Relative Permittivity (ϵ_r):	34.55	35.53	-2.77	5	
		e"	16.1100	Conductivity (σ):	5.02	5.06	-0.87	5	
	Head 5800	e'	34.1700	Relative Permittivity (ϵ_r):	34.17	35.30	-3.20	5	
		e"	16.0800	Conductivity (σ):	5.19	5.27	-1.60	5	
	Head 5825	e'	34.1200	Relative Permittivity (ϵ_r):	34.12	35.30	-3.34	5	
		e"	16.1400	Conductivity (σ):	5.23	5.27	-0.81	5	
	4-21-2024	Head 5180	e'	35.7300	Relative Permittivity (ϵ_r):	35.73	36.01	-0.79	5
			e"	15.5900	Conductivity (σ):	4.49	4.63	-3.03	5
Head 5200		e'	35.6900	Relative Permittivity (ϵ_r):	35.69	35.99	-0.83	5	
		e"	15.6200	Conductivity (σ):	4.52	4.65	-2.90	5	
Head 5600		e'	34.9900	Relative Permittivity (ϵ_r):	34.99	35.53	-1.53	5	
		e"	15.9000	Conductivity (σ):	4.95	5.06	-2.16	5	
Head 5800		e'	34.6400	Relative Permittivity (ϵ_r):	34.64	35.30	-1.87	5	
		e"	16.0600	Conductivity (σ):	5.18	5.27	-1.72	5	
Head 5825		e'	34.6000	Relative Permittivity (ϵ_r):	34.60	35.30	-1.98	5	
		e"	16.0900	Conductivity (σ):	5.21	5.27	-1.11	5	
4-24-2024		Head 2450	e'	38.5500	Relative Permittivity (ϵ_r):	38.55	39.20	-1.66	5
			e"	13.4200	Conductivity (σ):	1.83	1.80	1.57	5
	Head 2400	e'	38.6500	Relative Permittivity (ϵ_r):	38.65	39.30	-1.65	5	
		e"	13.4100	Conductivity (σ):	1.79	1.75	2.16	5	
	Head 2500	e'	38.4300	Relative Permittivity (ϵ_r):	38.43	39.14	-1.81	5	
		e"	13.4100	Conductivity (σ):	1.86	1.85	0.54	5	
4-26-2024	Head 1750	e'	40.7300	Relative Permittivity (ϵ_r):	40.73	40.08	1.61	5	
		e"	13.6600	Conductivity (σ):	1.33	1.37	-2.91	5	
	Head 1710	e'	40.8100	Relative Permittivity (ϵ_r):	40.81	40.15	1.65	5	
		e"	13.7700	Conductivity (σ):	1.31	1.35	-2.76	5	
	Head 1780	e'	40.6800	Relative Permittivity (ϵ_r):	40.68	40.04	1.60	5	
		e"	13.5700	Conductivity (σ):	1.34	1.39	-3.09	5	
4-29-2024	Head 1750	e'	40.6300	Relative Permittivity (ϵ_r):	40.63	40.08	1.36	5	
		e"	13.8600	Conductivity (σ):	1.35	1.37	-1.48	5	
	Head 1710	e'	40.7300	Relative Permittivity (ϵ_r):	40.73	40.15	1.45	5	
		e"	13.9600	Conductivity (σ):	1.33	1.35	-1.42	5	
	Head 1780	e'	40.5700	Relative Permittivity (ϵ_r):	40.57	40.04	1.33	5	
		e"	13.7600	Conductivity (σ):	1.36	1.39	-1.73	5	

SAR 7 Room

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
3-6-2024	Head 835	e'	40.5200	Relative Permittivity (ϵ_r):	40.52	41.50	-2.36	5
		e"	19.7400	Conductivity (σ):	0.92	0.90	1.83	5
	Head 810	e'	40.6400	Relative Permittivity (ϵ_r):	40.64	41.65	-2.43	5
		e"	20.1100	Conductivity (σ):	0.91	0.90	0.89	5
	Head 850	e'	40.4500	Relative Permittivity (ϵ_r):	40.45	41.50	-2.53	5
		e"	19.5200	Conductivity (σ):	0.92	0.92	0.83	5
3-11-2024	Head 750	e'	42.7700	Relative Permittivity (ϵ_r):	42.77	41.96	1.93	5
		e"	21.3000	Conductivity (σ):	0.89	0.89	-0.54	5
	Head 680	e'	43.0000	Relative Permittivity (ϵ_r):	43.00	42.32	1.61	5
		e"	22.8700	Conductivity (σ):	0.86	0.89	-2.59	5
	Head 800	e'	42.5800	Relative Permittivity (ϵ_r):	42.58	41.71	2.10	5
		e"	20.3600	Conductivity (σ):	0.91	0.90	0.97	5
3-11-2024	Head 835	e'	42.4600	Relative Permittivity (ϵ_r):	42.46	41.50	2.31	5
		e"	19.7600	Conductivity (σ):	0.92	0.90	1.94	5
	Head 810	e'	42.5400	Relative Permittivity (ϵ_r):	42.54	41.65	2.13	5
		e"	20.1900	Conductivity (σ):	0.91	0.90	1.30	5
	Head 850	e'	42.4300	Relative Permittivity (ϵ_r):	42.43	41.50	2.24	5
		e"	19.5100	Conductivity (σ):	0.92	0.92	0.78	5
3-13-2024	Head 5200	e'	36.7000	Relative Permittivity (ϵ_r):	36.70	35.99	1.97	5
		e"	15.5000	Conductivity (σ):	4.48	4.65	-3.64	5
	Head 5250	e'	36.6800	Relative Permittivity (ϵ_r):	36.68	35.93	2.08	5
		e"	15.5200	Conductivity (σ):	4.53	4.70	-3.65	5
	Head 5600	e'	36.0000	Relative Permittivity (ϵ_r):	36.00	35.53	1.31	5
		e"	15.7800	Conductivity (σ):	4.91	5.06	-2.90	5
	Head 5750	e'	35.7900	Relative Permittivity (ϵ_r):	35.79	35.36	1.21	5
		e"	16.2100	Conductivity (σ):	5.18	5.21	-0.60	5
	Head 5800	e'	35.7800	Relative Permittivity (ϵ_r):	35.78	35.30	1.36	5
		e"	15.9800	Conductivity (σ):	5.15	5.27	-2.21	5
	Head 5925	e'	35.5500	Relative Permittivity (ϵ_r):	35.55	35.20	0.99	5
		e"	15.7600	Conductivity (σ):	5.19	5.40	-3.85	5
3-18-2024	Head 13	e'	56.5800	Relative Permittivity (ϵ_r):	56.58	55.00	2.87	5
		e"	992.0000	Conductivity (σ):	0.72	0.75	-4.39	5
	Head 12	e'	56.5400	Relative Permittivity (ϵ_r):	56.54	55.00	2.80	5
		e"	1075.0000	Conductivity (σ):	0.72	0.75	-4.36	5
	Head 14	e'	56.6400	Relative Permittivity (ϵ_r):	56.64	55.00	2.98	5
		e"	921.1000	Conductivity (σ):	0.72	0.75	-4.40	5
4-1-2024	Head 3500	e'	37.7800	Relative Permittivity (ϵ_r):	37.78	37.93	-0.39	5
		e"	14.8000	Conductivity (σ):	2.88	2.91	-1.08	5
	Head 3600	e'	37.5500	Relative Permittivity (ϵ_r):	37.55	37.82	-0.70	5
		e"	14.9100	Conductivity (σ):	2.98	3.01	-0.97	5
	Head 3700	e'	37.3400	Relative Permittivity (ϵ_r):	37.34	37.70	-0.96	5
		e"	15.0100	Conductivity (σ):	3.09	3.12	-0.90	5
	Head 3800	e'	37.1300	Relative Permittivity (ϵ_r):	37.13	37.59	-1.22	5
		e"	15.1200	Conductivity (σ):	3.19	3.22	-0.74	5
	Head 3900	e'	36.9400	Relative Permittivity (ϵ_r):	36.94	37.47	-1.42	5
		e"	15.2300	Conductivity (σ):	3.30	3.32	-0.55	5
	Head 3980	e'	36.7800	Relative Permittivity (ϵ_r):	36.78	37.38	-1.61	5
		e"	15.3200	Conductivity (σ):	3.39	3.40	-0.36	5
5-1-2024	Head 5200	e'	36.0300	Relative Permittivity (ϵ_r):	36.03	35.99	0.11	5
		e"	15.7200	Conductivity (σ):	4.55	4.65	-2.27	5
	Head 5250	e'	35.9400	Relative Permittivity (ϵ_r):	35.94	35.93	0.02	5
		e"	15.7600	Conductivity (σ):	4.60	4.70	-2.16	5
	Head 5600	e'	35.4000	Relative Permittivity (ϵ_r):	35.40	35.53	-0.38	5
		e"	15.9600	Conductivity (σ):	4.97	5.06	-1.79	5
	Head 5750	e'	35.1800	Relative Permittivity (ϵ_r):	35.18	35.36	-0.52	5
		e"	16.1100	Conductivity (σ):	5.15	5.21	-1.21	5
	Head 5800	e'	35.1100	Relative Permittivity (ϵ_r):	35.11	35.30	-0.54	5
		e"	16.1300	Conductivity (σ):	5.20	5.27	-1.29	5
	Head 5925	e'	34.9200	Relative Permittivity (ϵ_r):	34.92	35.20	-0.80	5
		e"	16.2300	Conductivity (σ):	5.35	5.40	-0.98	5
5-1-2024	Head 3500	e'	37.5800	Relative Permittivity (ϵ_r):	37.58	37.93	-0.92	5
		e"	14.9900	Conductivity (σ):	2.92	2.91	0.19	5
	Head 3600	e'	37.4600	Relative Permittivity (ϵ_r):	37.46	37.82	-0.94	5
		e"	15.0500	Conductivity (σ):	3.01	3.01	-0.04	5
	Head 3700	e'	37.3400	Relative Permittivity (ϵ_r):	37.34	37.70	-0.96	5
		e"	15.1200	Conductivity (σ):	3.11	3.12	-0.18	5
	Head 3800	e'	37.2200	Relative Permittivity (ϵ_r):	37.22	37.59	-0.98	5
		e"	15.1800	Conductivity (σ):	3.21	3.22	-0.35	5
	Head 3900	e'	37.0900	Relative Permittivity (ϵ_r):	37.09	37.47	-1.02	5
		e"	15.2600	Conductivity (σ):	3.31	3.32	-0.35	5
	Head 3980	e'	37.0000	Relative Permittivity (ϵ_r):	37.00	37.38	-1.02	5
		e"	15.3100	Conductivity (σ):	3.39	3.40	-0.43	5

SAR 8 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
3-11-2024	Head 2450	e'	39.0300	Relative Permittivity (ε _r):	39.03	39.20	-0.43	5
		e"	13.2100	Conductivity (σ):	1.80	1.80	-0.02	5
	Head 2400	e'	39.0500	Relative Permittivity (ε _r):	39.05	39.30	-0.63	5
		e"	13.2900	Conductivity (σ):	1.77	1.75	1.25	5
	Head 2500	e'	39.0200	Relative Permittivity (ε _r):	39.02	39.14	-0.30	5
		e"	13.1900	Conductivity (σ):	1.83	1.85	-1.11	5
4-3-2024	Head 2600	e'	39.9200	Relative Permittivity (ε _r):	39.92	39.01	2.33	5
		e"	13.1700	Conductivity (σ):	1.90	1.96	-2.97	5
	Head 2495	e'	40.1200	Relative Permittivity (ε _r):	40.12	39.14	2.50	5
		e"	13.1400	Conductivity (σ):	1.82	1.85	-1.39	5
	Head 2700	e'	39.7200	Relative Permittivity (ε _r):	39.72	38.88	2.15	5
		e"	13.2000	Conductivity (σ):	1.98	2.07	-4.28	5
4-4-2024	Head 3500	e'	38.2200	Relative Permittivity (ε _r):	38.22	37.93	0.77	5
		e"	14.3000	Conductivity (σ):	2.78	2.91	-4.42	5
	Head 3600	e'	38.0400	Relative Permittivity (ε _r):	38.04	37.82	0.59	5
		e"	14.4800	Conductivity (σ):	2.90	3.01	-3.83	5
	Head 3700	e'	37.8600	Relative Permittivity (ε _r):	37.86	37.70	0.42	5
		e"	14.6300	Conductivity (σ):	3.01	3.12	-3.41	5
	Head 3800	e'	37.6700	Relative Permittivity (ε _r):	37.67	37.59	0.22	5
		e"	14.7800	Conductivity (σ):	3.12	3.22	-2.97	5
	Head 3900	e'	37.4400	Relative Permittivity (ε _r):	37.44	37.47	-0.09	5
		e"	14.9000	Conductivity (σ):	3.23	3.32	-2.70	5
	Head 3980	e'	37.2600	Relative Permittivity (ε _r):	37.26	37.38	-0.33	5
		e"	14.9600	Conductivity (σ):	3.31	3.40	-2.71	5
4-5-2024	Head 3500	e'	38.8300	Relative Permittivity (ε _r):	38.83	37.93	2.37	5
		e"	14.5300	Conductivity (σ):	2.83	2.91	-2.88	5
	Head 3600	e'	38.6500	Relative Permittivity (ε _r):	38.65	37.82	2.21	5
		e"	14.5900	Conductivity (σ):	2.92	3.01	-3.10	5
	Head 3700	e'	38.5100	Relative Permittivity (ε _r):	38.51	37.70	2.14	5
		e"	14.6500	Conductivity (σ):	3.01	3.12	-3.28	5
	Head 3800	e'	38.3600	Relative Permittivity (ε _r):	38.36	37.59	2.06	5
		e"	14.7200	Conductivity (σ):	3.11	3.22	-3.37	5
	Head 3900	e'	38.2700	Relative Permittivity (ε _r):	38.27	37.47	2.13	5
		e"	14.8100	Conductivity (σ):	3.21	3.32	-3.29	5
	Head 3980	e'	38.1700	Relative Permittivity (ε _r):	38.17	37.38	2.11	5
		e"	14.9600	Conductivity (σ):	3.31	3.40	-2.71	5
4-15-2024	Head 2450	e'	39.6500	Relative Permittivity (ε _r):	39.65	39.20	1.15	5
		e"	13.6800	Conductivity (σ):	1.86	1.80	3.53	5
	Head 2400	e'	39.7700	Relative Permittivity (ε _r):	39.77	39.30	1.20	5
		e"	13.6600	Conductivity (σ):	1.82	1.75	4.07	5
	Head 2500	e'	39.5800	Relative Permittivity (ε _r):	39.58	39.14	1.13	5
		e"	13.7300	Conductivity (σ):	1.91	1.85	2.94	5
4-30-2024	Head 2450	e'	39.1700	Relative Permittivity (ε _r):	39.17	39.20	-0.08	5
		e"	12.9600	Conductivity (σ):	1.77	1.80	-1.92	5
	Head 2400	e'	39.2100	Relative Permittivity (ε _r):	39.21	39.30	-0.22	5
		e"	13.0100	Conductivity (σ):	1.74	1.75	-0.88	5
	Head 2500	e'	39.1200	Relative Permittivity (ε _r):	39.12	39.14	-0.04	5
		e"	12.9200	Conductivity (σ):	1.80	1.85	-3.13	5
4-30-2024	Head 2600	e'	39.9000	Relative Permittivity (ε _r):	39.90	39.01	2.28	5
		e"	13.1500	Conductivity (σ):	1.90	1.96	-3.11	5
	Head 2495	e'	39.4000	Relative Permittivity (ε _r):	39.40	39.14	0.66	5
		e"	13.2200	Conductivity (σ):	1.83	1.85	-0.79	5
	Head 2700	e'	39.2000	Relative Permittivity (ε _r):	39.20	38.88	0.81	5
		e"	13.6200	Conductivity (σ):	2.04	2.07	-1.23	5

SAR 9 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
3-8-2024	Head 1750	e'	38.4200	Relative Permittivity (ϵ_r):	38.42	40.08	-4.15	5
		e"	13.5500	Conductivity (σ):	1.32	1.37	-3.69	5
	Head 1695	e'	38.4600	Relative Permittivity (ϵ_r):	38.46	40.17	-4.26	5
		e"	13.6700	Conductivity (σ):	1.29	1.34	-3.71	5
	Head 1780	e'	38.4400	Relative Permittivity (ϵ_r):	38.44	40.04	-3.99	5
		e"	13.5000	Conductivity (σ):	1.34	1.39	-3.59	5
3-8-2024	Head 1900	e'	38.5900	Relative Permittivity (ϵ_r):	38.59	40.00	-3.52	5
		e"	13.5000	Conductivity (σ):	1.43	1.40	1.87	5
	Head 1850	e'	38.4900	Relative Permittivity (ϵ_r):	38.49	40.00	-3.78	5
		e"	13.4600	Conductivity (σ):	1.38	1.40	-1.10	5
	Head 1915	e'	38.6300	Relative Permittivity (ϵ_r):	38.63	40.00	-3.42	5
		e"	13.4900	Conductivity (σ):	1.44	1.40	2.60	5
3-12-2024	Head 1750	e'	39.6800	Relative Permittivity (ϵ_r):	39.68	40.08	-1.01	5
		e"	13.5800	Conductivity (σ):	1.32	1.37	-3.47	5
	Head 1710	e'	39.7100	Relative Permittivity (ϵ_r):	39.71	40.15	-1.09	5
		e"	13.7100	Conductivity (σ):	1.30	1.35	-3.18	5
	Head 1780	e'	39.6300	Relative Permittivity (ϵ_r):	39.63	40.04	-1.02	5
		e"	13.5300	Conductivity (σ):	1.34	1.39	-3.38	5
3-12-2024	Head 1900	e'	39.3900	Relative Permittivity (ϵ_r):	39.39	40.00	-1.53	5
		e"	13.4000	Conductivity (σ):	1.42	1.40	1.12	5
	Head 1850	e'	39.4900	Relative Permittivity (ϵ_r):	39.49	40.00	-1.28	5
		e"	13.4400	Conductivity (σ):	1.38	1.40	-1.25	5
	Head 1915	e'	39.3700	Relative Permittivity (ϵ_r):	39.37	40.00	-1.58	5
		e"	13.3600	Conductivity (σ):	1.42	1.40	1.61	5
3-13-2024	Head 835	e'	42.3300	Relative Permittivity (ϵ_r):	42.33	41.50	2.00	5
		e"	19.1200	Conductivity (σ):	0.89	0.90	-1.37	5
	Head 810	e'	42.4000	Relative Permittivity (ϵ_r):	42.40	41.65	1.79	5
		e"	19.5000	Conductivity (σ):	0.88	0.90	-2.17	5
	Head 850	e'	42.3000	Relative Permittivity (ϵ_r):	42.30	41.50	1.93	5
		e"	18.9200	Conductivity (σ):	0.89	0.92	-2.27	5
3-14-2024	Head 750	e'	41.9900	Relative Permittivity (ϵ_r):	41.99	41.96	0.07	5
		e"	20.9900	Conductivity (σ):	0.88	0.89	-1.99	5
	Head 680	e'	42.3100	Relative Permittivity (ϵ_r):	42.31	42.32	-0.02	5
		e"	22.5100	Conductivity (σ):	0.85	0.89	-4.12	5
	Head 790	e'	41.8000	Relative Permittivity (ϵ_r):	41.80	41.76	0.10	5
		e"	20.2500	Conductivity (σ):	0.89	0.90	-0.74	5
4-10-2024	Head 750	e'	40.7100	Relative Permittivity (ϵ_r):	40.71	41.96	-2.98	5
		e"	21.3300	Conductivity (σ):	0.89	0.89	-0.40	5
	Head 680	e'	40.9200	Relative Permittivity (ϵ_r):	40.92	42.32	-3.31	5
		e"	22.9100	Conductivity (σ):	0.87	0.89	-2.42	5
	Head 790	e'	40.6000	Relative Permittivity (ϵ_r):	40.60	41.76	-2.77	5
		e"	20.5600	Conductivity (σ):	0.90	0.90	0.78	5
4-10-2024	Head 835	e'	40.4600	Relative Permittivity (ϵ_r):	40.46	41.50	-2.51	5
		e"	19.7600	Conductivity (σ):	0.92	0.90	1.94	5
	Head 810	e'	40.5300	Relative Permittivity (ϵ_r):	40.53	41.65	-2.70	5
		e"	20.1900	Conductivity (σ):	0.91	0.90	1.30	5
	Head 850	e'	40.4100	Relative Permittivity (ϵ_r):	40.41	41.50	-2.63	5
		e"	19.5200	Conductivity (σ):	0.92	0.92	0.83	5
4-14-2024	Head 750	e'	41.8800	Relative Permittivity (ϵ_r):	41.88	41.96	-0.19	5
		e"	21.5900	Conductivity (σ):	0.90	0.89	0.81	5
	Head 680	e'	42.0600	Relative Permittivity (ϵ_r):	42.06	42.32	-0.62	5
		e"	23.2400	Conductivity (σ):	0.88	0.89	-1.01	5
	Head 790	e'	41.7800	Relative Permittivity (ϵ_r):	41.78	41.76	0.06	5
		e"	20.7800	Conductivity (σ):	0.91	0.90	1.86	5
4-14-2024	Head 835	e'	41.6900	Relative Permittivity (ϵ_r):	41.69	41.50	0.46	5
		e"	19.9700	Conductivity (σ):	0.93	0.90	3.02	5
	Head 810	e'	41.7400	Relative Permittivity (ϵ_r):	41.74	41.65	0.21	5
		e"	20.4000	Conductivity (σ):	0.92	0.90	2.35	5
	Head 850	e'	41.6600	Relative Permittivity (ϵ_r):	41.66	41.50	0.39	5
		e"	19.7200	Conductivity (σ):	0.93	0.92	1.86	5

SAR 17 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
3-18-2024	Head 750	e'	40.6900	Relative Permittivity (ϵ_r):	40.69	41.96	-3.03	5
		e"	21.1400	Conductivity (σ):	0.88	0.89	-1.29	5
	Head 680	e'	40.9800	Relative Permittivity (ϵ_r):	40.98	42.32	-3.17	5
		e"	22.7100	Conductivity (σ):	0.86	0.89	-3.27	5
	Head 790	e'	40.5200	Relative Permittivity (ϵ_r):	40.52	41.76	-2.96	5
		e"	20.3500	Conductivity (σ):	0.89	0.90	-0.25	5
3-25-2024	Head 2600	e'	39.5700	Relative Permittivity (ϵ_r):	39.57	39.01	1.43	5
		e"	13.6100	Conductivity (σ):	1.97	1.96	0.28	5
	Head 2500	e'	39.7200	Relative Permittivity (ϵ_r):	39.72	39.14	1.49	5
		e"	13.6200	Conductivity (σ):	1.89	1.85	2.12	5
	Head 2700	e'	39.3900	Relative Permittivity (ϵ_r):	39.39	38.88	1.30	5
		e"	13.6400	Conductivity (σ):	2.05	2.07	-1.09	5
3-28-2024	Head 1900	e'	39.0500	Relative Permittivity (ϵ_r):	39.05	40.00	-2.38	5
		e"	13.3200	Conductivity (σ):	1.41	1.40	0.51	5
	Head 1850	e'	39.1700	Relative Permittivity (ϵ_r):	39.17	40.00	-2.08	5
		e"	13.3100	Conductivity (σ):	1.37	1.40	-2.20	5
	Head 1915	e'	39.0100	Relative Permittivity (ϵ_r):	39.01	40.00	-2.48	5
		e"	13.3000	Conductivity (σ):	1.42	1.40	1.16	5
3-28-2024	Head 2600	e'	37.6500	Relative Permittivity (ϵ_r):	37.65	39.01	-3.49	5
		e"	13.3400	Conductivity (σ):	1.93	1.96	-1.71	5
	Head 2500	e'	37.9400	Relative Permittivity (ϵ_r):	37.94	39.14	-3.06	5
		e"	13.2800	Conductivity (σ):	1.85	1.85	-0.43	5
	Head 2700	e'	37.4100	Relative Permittivity (ϵ_r):	37.41	38.88	-3.79	5
		e"	13.3800	Conductivity (σ):	2.01	2.07	-2.97	5
4-1-2024	Head 5200	e'	36.0500	Relative Permittivity (ϵ_r):	36.05	35.99	0.17	5
		e"	16.0400	Conductivity (σ):	4.64	4.65	-0.28	5
	Head 5250	e'	35.9700	Relative Permittivity (ϵ_r):	35.97	35.93	0.10	5
		e"	15.9400	Conductivity (σ):	4.65	4.70	-1.04	5
4-3-2024	Head 3500	e'	37.5700	Relative Permittivity (ϵ_r):	37.57	37.93	-0.95	5
		e"	14.6700	Conductivity (σ):	2.85	2.91	-1.95	5
	Head 3600	e'	37.4600	Relative Permittivity (ϵ_r):	37.46	37.82	-0.94	5
		e"	14.7600	Conductivity (σ):	2.95	3.01	-1.97	5
	Head 3700	e'	37.3300	Relative Permittivity (ϵ_r):	37.33	37.70	-0.99	5
		e"	14.8400	Conductivity (σ):	3.05	3.12	-2.03	5
	Head 3800	e'	37.2100	Relative Permittivity (ϵ_r):	37.21	37.59	-1.00	5
		e"	14.9100	Conductivity (σ):	3.15	3.22	-2.12	5
	Head 3900	e'	37.0800	Relative Permittivity (ϵ_r):	37.08	37.47	-1.05	5
		e"	14.9800	Conductivity (σ):	3.25	3.32	-2.18	5
	Head 3980	e'	37.0000	Relative Permittivity (ϵ_r):	37.00	37.38	-1.02	5
		e"	15.0300	Conductivity (σ):	3.33	3.40	-2.25	5
4-8-2024	Head 3500	e'	38.4700	Relative Permittivity (ϵ_r):	38.47	37.93	1.42	5
		e"	14.6800	Conductivity (σ):	2.86	2.91	-1.88	5
	Head 3600	e'	38.2400	Relative Permittivity (ϵ_r):	38.24	37.82	1.12	5
		e"	14.7600	Conductivity (σ):	2.95	3.01	-1.97	5
	Head 3700	e'	38.0400	Relative Permittivity (ϵ_r):	38.04	37.70	0.90	5
		e"	14.8300	Conductivity (σ):	3.05	3.12	-2.09	5
	Head 3800	e'	37.8700	Relative Permittivity (ϵ_r):	37.87	37.59	0.75	5
		e"	14.9000	Conductivity (σ):	3.15	3.22	-2.18	5
	Head 3900	e'	37.7500	Relative Permittivity (ϵ_r):	37.75	37.47	0.74	5
		e"	14.9800	Conductivity (σ):	3.25	3.32	-2.18	5
	Head 3980	e'	37.6500	Relative Permittivity (ϵ_r):	37.65	37.38	0.72	5
		e"	15.0500	Conductivity (σ):	3.33	3.40	-2.12	5
4-18-2024	Head 5200	e'	36.3700	Relative Permittivity (ϵ_r):	36.37	35.99	1.06	5
		e"	15.6300	Conductivity (σ):	4.52	4.65	-2.83	5
	Head 5250	e'	36.2700	Relative Permittivity (ϵ_r):	36.27	35.93	0.94	5
		e"	15.6700	Conductivity (σ):	4.57	4.70	-2.72	5
	Head 5500	e'	35.8200	Relative Permittivity (ϵ_r):	35.82	35.65	0.48	5
		e"	15.8400	Conductivity (σ):	4.84	4.96	-2.30	5
	Head 5700	e'	35.4900	Relative Permittivity (ϵ_r):	35.49	35.42	0.20	5
		e"	16.0200	Conductivity (σ):	5.08	5.16	-1.65	5
	Head 5925	e'	35.1300	Relative Permittivity (ϵ_r):	35.13	35.20	-0.20	5
		e"	16.1900	Conductivity (σ):	5.33	5.40	-1.23	5

SAR 19 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
3-19-2024	Head 2600	e'	40.3500	Relative Permittivity (ϵ_r):	40.35	39.01	3.43	5
		e"	13.1800	Conductivity (σ):	1.91	1.96	-2.89	5
	Head 2495	e'	40.4900	Relative Permittivity (ϵ_r):	40.49	39.14	3.44	5
		e"	13.0800	Conductivity (σ):	1.81	1.85	-1.84	5
	Head 2700	e'	40.1600	Relative Permittivity (ϵ_r):	40.16	38.88	3.28	5
		e"	13.2900	Conductivity (σ):	2.00	2.07	-3.63	5
4-1-2024	Head 2600	e'	40.6400	Relative Permittivity (ϵ_r):	40.64	39.01	4.18	5
		e"	13.1400	Conductivity (σ):	1.90	1.96	-3.19	5
	Head 2495	e'	40.8100	Relative Permittivity (ϵ_r):	40.81	39.14	4.26	5
		e"	13.0200	Conductivity (σ):	1.81	1.85	-2.29	5
	Head 2700	e'	40.4400	Relative Permittivity (ϵ_r):	40.44	38.88	4.00	5
		e"	13.2500	Conductivity (σ):	1.99	2.07	-3.92	5
4-3-2024	Head 2600	e'	39.5200	Relative Permittivity (ϵ_r):	39.52	39.01	1.31	5
		e"	13.2500	Conductivity (σ):	1.92	1.96	-2.38	5
	Head 2495	e'	39.7000	Relative Permittivity (ϵ_r):	39.70	39.14	1.42	5
		e"	13.2000	Conductivity (σ):	1.83	1.85	-0.94	5
	Head 2700	e'	39.3900	Relative Permittivity (ϵ_r):	39.39	38.88	1.30	5
		e"	13.3000	Conductivity (σ):	2.00	2.07	-3.55	5
4-8-2024	Head 2600	e'	38.8200	Relative Permittivity (ϵ_r):	38.82	39.01	-0.49	5
		e"	13.2400	Conductivity (σ):	1.91	1.96	-2.45	5
	Head 2495	e'	38.9400	Relative Permittivity (ϵ_r):	38.94	39.14	-0.52	5
		e"	13.1700	Conductivity (σ):	1.83	1.85	-1.17	5
	Head 2700	e'	38.6500	Relative Permittivity (ϵ_r):	38.65	38.88	-0.60	5
		e"	13.3400	Conductivity (σ):	2.00	2.07	-3.26	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 of 100MHz to 6GHz frequency range 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. For The System verification of 4MHz to 30MHz frequency range, The System verification must be performed before 24 hours.

System Performance Check Measurement Conditions (100MHz to 6GHz):

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 \pm 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be \geq 15.0 cm for SAR measurements \leq 3 GHz and \geq 10.0 cm for measurements $>$ 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 2.5 mm.
For 5 GHz band - Distance between probe sensors and phantom surface was set to 1.4 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

System Performance Check Measurement Conditions (4MHz to 30MHz):

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 \pm 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be \geq 15.0 cm for SAR measurements
- The DASY system with an E-Field Probe was used for the measurements.
- The CLA(Confined Loop Antennas) was mounted on the small tripod so that the CLA feed point was positioned below the center marking of the flat phantom section and the CLA was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 0 mm separation distance from CLA center to the Phantom surface.
- The CLA input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles.

System Dipole	Serial No.	Cal. Date	Cal.due date	Target SAR Values (W/kg)	
				1g/10g	Head
D750V3	1122	2-22-2024	2-22-2025	1g	8.58
				10g	5.62
D750V3	1205	4-18-2023	4-18-2025	1g	8.55
				10g	5.59
D835V2	4d174	9-21-2022	9-21-2024	1g	9.6
				10g	6.3
D835V2	4d194	3-24-2022	3-24-2024	1g	9.8
				10g	6.4
D835V2	4d194	3-11-2024	3-11-2025	1g	9.9
				10g	6.5
D1750V2	1125	11-30-2022	11-30-2024	1g	37.4
				10g	19.7
D1750V2	1180	9-21-2022	9-21-2024	1g	35.60
				10g	18.90
D1900V2	5d190	11-16-2022	11-16-2024	1g	39.7
				10g	20.7
D2450V2	939	7-19-2023	7-19-2024	1g	52.3
				10g	24.7
D2600V2	1097	9-26-2023	9-26-2024	1g	57.3
				10g	25.7
D2600V2	1178	4-25-2023	4-25-2025	1g	57.4
				10g	25.7
D3500V2	1075	5-19-2023	5-29-2024	1g	65.5
				10g	24.7
D3500V2	1121	4-20-2023	4-20-2025	1g	66.6
				10g	25.1
D3700V2	1036	5-19-2023	5-19-2024	1g	67.8
				10g	24.5
D3900V2	1069	4-21-2023	4-21-2025	1g	69.4
				10g	24.0
D5GHzV2	1209	2-28-2023	2-28-2025	1g	80.4
				10g	22.9
D5GHzV2	1209	2-28-2023	2-28-2025	1g	83.1
				10g	23.6
D5GHzV2	1209	2-28-2023	2-28-2025	1g	81.2
				10g	22.9
D5GHzV2	1325	4-21-2023	4-21-2025	1g	79.6
				10g	22.7
D5GHzV2	1325	4-21-2023	4-21-2025	1g	80.4
				10g	22.7
D5GHzV2	1325	4-21-2023	4-21-2025	1g	80.5
				10g	22.5
CLA-13	1015	8-22-2023	8-22-2024	1g	0.533
				10g	0.333

Note(s):

1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
2. For CLA, Calibration interval applied every year.
3. Refer to Appendix F that mentioned about justification

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 2 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
4-5-2024	D2450V2	939	Head	1g	5.32	53.2	52.30	1.72	
				10g	2.43	24.3	24.70	-1.62	
4-9-2024	D2450V2	939	Head	1g	5.35	53.5	52.30	2.29	
				10g	2.45	24.5	24.70	-0.81	
4-14-2024	D750V3	1122	Head	1g	0.89	8.9	8.58	3.85	
				10g	0.58	5.8	5.62	3.20	
4-14-2024	D835V2	4d174	Head	1g	0.91	9.1	9.63	-5.50	
				10g	0.58	5.8	6.29	-7.47	
4-22-2024	D2600V2	1178	Head	1g	6.27	62.7	57.40	9.23	1
				10g	2.80	28.0	25.70	8.95	
4-26-2024	D2600V2	1178	Head	1g	5.62	56.2	57.40	-2.09	
				10g	2.52	25.2	25.70	-1.95	
4-30-2024	D2450V2	939	Head	1g	5.06	50.6	52.30	-3.25	
				10g	2.35	23.5	24.70	-4.86	

SAR 3 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
4-13-2024	D3500V2	1121	Head	1g	6.39	63.9	66.60	-4.05	
				10g	2.56	25.6	25.10	1.99	
4-13-2024	D3700V2	1036	Head	1g	6.51	65.1	67.80	-3.98	
				10g	2.60	26.0	24.50	6.12	
4-13-2024	D3900V2	1069	Head	1g	6.43	64.3	69.40	-7.35	
				10g	2.58	25.8	24.00	7.50	
4-17-2024	D3500V2	1121	Head	1g	6.79	67.9	66.60	1.95	
				10g	2.70	27.0	25.10	7.57	
4-17-2024	D3700V2	1036	Head	1g	6.74	67.4	67.80	-0.59	
				10g	2.68	26.8	24.50	9.39	
4-17-2024	D3900V2	1069	Head	1g	6.33	63.3	69.40	-8.79	2
				10g	2.52	25.2	24.00	5.00	
4-23-2024	D3500V2	1121	Head	1g	6.02	60.2	66.60	-9.61	3
				10g	2.47	24.7	25.10	-1.59	
4-23-2024	D3700V2	1036	Head	1g	6.54	65.4	67.80	-3.54	
				10g	2.59	25.9	24.50	5.71	
4-23-2024	D3900V2	1069	Head	1g	6.72	67.2	69.40	-3.17	
				10g	2.54	25.4	24.00	5.83	
4-27-2024	D1900V2	5d190	Head	1g	4.01	40.1	39.70	1.01	
				10g	2.21	22.1	20.70	6.76	
4-29-2024	D3500V2	1075	Head	1g	6.36	63.6	65.50	-2.90	
				10g	2.64	26.4	24.70	6.88	
4-29-2024	D3700V2	1036	Head	1g	6.66	66.6	67.80	-1.77	
				10g	2.65	26.5	24.50	8.16	
4-29-2024	D3900V2	1069	Head	1g	6.49	64.9	69.40	-6.48	
				10g	2.48	24.8	24.00	3.33	
5-2-2024	D750V2	1122	Head	1g	0.90	9.0	8.58	4.31	
				10g	0.62	6.2	5.62	9.79	

SAR 4 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
2-29-2024	D835V2	4d194	Head	1g	0.90	9.0	9.77	-7.68	4
				10g	0.60	6.0	6.39	-6.10	
2-29-2024	D750V3	1205	Head	1g	0.92	9.2	8.55	7.13	5
				10g	0.61	6.1	5.59	9.66	
3-1-2024	D835V2	4d194	Head	1g	0.98	9.8	9.77	0.98	
				10g	0.65	6.5	6.39	0.65	
3-5-2024	D750V3	1205	Head	1g	0.87	8.7	8.55	1.29	
				10g	0.56	5.6	5.59	0.54	
3-5-2024	D835V2	4d174	Head	1g	1.00	10.0	9.63	3.53	
				10g	0.67	6.7	6.29	6.52	
3-11-2024	D2600V2	1097	Head	1g	5.66	56.6	57.30	-1.22	
				10g	2.70	27.0	25.70	5.06	
3-11-2024	D5GHzV2 (5250)	1325	Head	1g	7.81	78.1	79.60	-1.88	
				10g	2.41	24.1	22.70	6.17	
3-11-2024	D5GHzV2 (5600)	1325	Head	1g	8.02	80.2	83.90	-4.41	
				10g	2.40	24.0	23.80	0.84	
3-11-2024	D5GHzV2 (5800)	1325	Head	1g	7.91	79.1	80.50	-1.74	
				10g	2.36	23.6	22.50	4.89	
3-15-2024	D2600V2	1097	Head	1g	5.53	55.3	57.30	-3.49	
				10g	2.64	26.4	25.70	2.72	
4-15-2024	D750V3	1122	Head	1g	0.82	8.2	8.58	-4.90	
				10g	0.54	5.4	5.62	-3.74	
4-15-2024	D835V2	4d174	Head	1g	0.93	9.3	9.63	-3.22	
				10g	0.61	6.1	6.29	-3.18	
4-17-2024	D1750V2	1125	Head	1g	3.41	34.1	37.40	-8.82	6
				10g	1.82	18.2	19.70	-7.61	
4-17-2024	D1900V2	5d190	Head	1g	4.02	40.2	39.70	1.26	
				10g	2.12	21.2	20.70	2.42	
4-19-2024	D750V3	1122	Head	1g	0.85	8.5	8.58	-1.28	
				10g	0.55	5.5	5.62	-1.42	
4-19-2024	D835V2	4d174	Head	1g	0.93	9.3	9.63	-3.12	
				10g	0.61	6.1	6.29	-3.82	
4-23-2024	D750V3	1122	Head	1g	0.84	8.4	8.58	-2.21	
				10g	0.55	5.5	5.62	-1.96	
4-23-2024	D835V2	4d174	Head	1g	1.00	10.0	9.63	3.43	
				10g	0.61	6.1	6.29	-3.18	
4-27-2024	D835V2	4d174	Head	1g	0.93	9.3	9.63	-3.53	
				10g	0.57	5.7	6.29	-9.70	
4-30-2024	D750V3	1122	Head	1g	0.86	8.6	8.58	0.58	
				10g	0.57	5.7	5.62	1.42	
5-1-2024	D750V3	1122	Head	1g	0.85	8.5	8.58	-1.05	
				10g	0.57	5.7	5.62	0.53	
5-1-2024	D835V2	4d194	Head	1g	1.00	10.0	9.86	1.42	
				10g	0.65	6.5	6.45	0.00	
5-1-2024	D835V2	4d194	Head	1g	1.01	10.1	9.86	2.43	
				10g	0.67	6.7	6.45	3.10	

SAR 5 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-6-2024	D1750V2	1125	Head	1g	3.82	38.2	37.40	2.14	
				10g	2.03	20.3	19.70	3.05	
3-6-2024	D1900V2	5d190	Head	1g	3.81	38.1	39.70	-4.03	
				10g	1.99	19.9	20.70	-3.86	
3-25-2024	D2600V2	1097	Head	1g	5.88	58.8	57.30	2.62	
				10g	2.63	26.3	25.70	2.33	
4-17-2024	D5GHzV2 (5250)	1209	Head	1g	8.45	84.5	80.40	5.10	
				10g	2.43	24.3	22.90	6.11	
4-17-2024	D5GHzV2	1209	Head	1g	8.81	88.1	83.10	6.02	
				10g	2.49	24.9	23.60	5.51	
4-17-2024	D5GHzV2 (5800)	1209	Head	1g	8.54	85.4	81.20	5.17	
				10g	2.43	24.3	22.90	6.11	
4-21-2024	D5GHzV2 (5800)	1209	Head	1g	8.02	80.2	81.20	-1.23	
				10g	2.31	23.1	22.90	0.87	
4-24-2024	D2450V2	939	Head	1g	5.39	53.9	52.30	3.06	
				10g	2.49	24.9	24.70	0.81	
4-26-2024	D1750V2	1125	Head	1g	3.48	34.8	37.40	-6.95	
				10g	1.84	18.4	19.70	-6.60	
4-29-2024	D1750V2	1180	Head	1g	3.28	32.8	35.60	-7.87	7
				10g	1.75	17.5	18.90	-7.41	

SAR 7 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-6-2024	D835V2	4d174	Head	1g	0.99	9.9	9.63	3.01	
				10g	0.65	6.5	6.29	3.97	
3-11-2024	D750V2	1205	Head	1g	0.84	8.4	8.55	-2.22	
				10g	0.56	5.6	5.59	-0.36	
3-11-2024	D835V2	4d174	Head	1g	1.01	10.1	9.63	4.88	
				10g	0.67	6.7	6.29	5.72	
3-13-2024	D5GHzV2 (5250)	1325	Head	1g	7.45	74.5	79.60	-6.41	8
				10g	2.16	21.6	22.70	-4.85	
3-13-2024	D5GHzV2 (5600)	1325	Head	1g	8.18	81.8	83.90	-2.50	
				10g	2.36	23.6	23.80	-0.84	
3-13-2024	D5GHzV2 (5800)	1325	Head	1g	7.83	78.3	80.50	-2.73	
				10g	2.26	22.6	22.50	0.44	
3-18-2024	CLA-13	1015	Head	1g	0.06	0.6	0.53	5.07	9
				10g	0.04	0.4	0.33	5.11	
4-1-2024	D3500V2	1121	Head	1g	6.34	63.4	66.60	-4.80	
				10g	2.50	25.0	25.10	-0.40	
4-1-2024	D3700V2	1036	Head	1g	7.01	70.1	67.80	3.39	
				10g	2.68	26.8	24.50	9.39	
4-1-2024	D3900V2	1069	Head	1g	7.06	70.6	69.40	1.73	
				10g	2.56	25.6	24.00	6.67	
5-1-2024	D5GHzV2 (5250)	1325	Head	1g	8.11	81.1	79.60	1.88	
				10g	2.37	23.7	22.70	4.41	
5-1-2024	D5GHzV2 (5800)	1325	Head	1g	8.13	81.3	80.50	0.99	
				10g	2.35	23.5	22.50	4.44	
5-1-2024	D3500V2	1121	Head	1g	6.57	65.7	66.60	-1.35	
				10g	2.65	26.5	25.10	5.58	

SAR 8 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-11-2024	D2450V2	939	Head	1g	4.98	49.8	52.30	-4.78	10
				10g	2.39	23.9	24.70	-3.24	
4-3-2024	D2600V2	1097	Head	1g	5.77	57.7	57.30	0.70	
				10g	2.68	26.8	25.70	4.28	
4-4-2024	D3500V2	1075	Head	1g	6.32	63.2	65.50	-3.51	
				10g	2.57	25.7	24.70	4.05	
4-4-2024	D3700V2	1036	Head	1g	6.86	68.6	67.80	1.18	
				10g	2.68	26.8	24.50	9.39	
4-4-2024	D3900V2	1069	Head	1g	6.97	69.7	69.40	0.43	
				10g	2.59	25.9	24.00	7.92	
4-5-2024	D3500V2	1075	Head	1g	6.47	64.7	65.50	-1.22	
				10g	2.61	26.1	24.70	5.67	
4-5-2024	D3700V2	1036	Head	1g	6.62	66.2	67.80	-2.36	
				10g	2.58	25.8	24.50	5.31	
4-5-2024	D3900V2	1069	Head	1g	6.76	67.6	69.40	-2.59	
				10g	2.52	25.2	24.00	5.00	
4-15-2024	D2450V2	939	Head	1g	5.15	51.5	52.30	-1.53	
				10g	2.52	25.2	24.70	2.02	
4-30-2024	D2450V2	939	Head	1g	5.37	53.7	52.30	2.68	
				10g	2.62	26.2	24.70	6.07	
4-30-2024	D2600V2	1097	Head	1g	5.53	55.3	57.30	-3.49	
				10g	2.65	26.5	25.70	3.11	

SAR 9 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-8-2024	D1750V2	1180	Head	1g	3.34	33.4	35.60	-6.18	
				10g	1.83	18.3	18.90	-3.17	
3-8-2024	D1900V2	5d190	Head	1g	3.94	39.4	39.70	-0.76	
				10g	2.10	21.0	20.70	1.45	
3-12-2024	D1750V2	1180	Head	1g	3.30	33.0	35.60	-7.30	
				10g	1.83	18.3	18.90	-3.17	
3-12-2024	D1900V2	5d190	Head	1g	3.91	39.1	39.70	-1.51	
				10g	2.10	21.0	20.70	1.45	
3-13-2024	D835V2	4d174	Head	1g	0.94	9.4	9.63	-2.70	
				10g	0.63	6.3	6.29	0.00	
3-14-2024	D750V3	1205	Head	1g	0.89	8.9	8.55	4.56	
				10g	0.61	6.1	5.59	9.12	
4-10-2024	D750V3	1205	Head	1g	0.82	8.2	8.55	-4.44	
				10g	0.55	5.5	5.59	-1.07	
4-10-2024	D835V2	4d174	Head	1g	0.96	9.6	9.63	-0.62	
				10g	0.64	6.4	6.29	2.23	
4-14-2024	D835V2	4d174	Head	1g	1.02	10.2	9.63	5.92	12
				10g	0.68	6.8	6.29	7.79	
4-14-2024	D750V2	1122	Head	1g	0.81	8.1	8.58	-5.13	11
				10g	0.54	5.4	5.62	-3.20	

SAR 17 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-18-2024	D750V3	1205	Head	1g	0.90	9.0	8.55	4.91	
				10g	0.58	5.8	5.59	4.29	
3-25-2024	D2600V2	1097	Head	1g	6.01	60.1	57.30	4.89	
				10g	2.76	27.6	25.70	7.39	
3-28-2024	D1900V2	5d190	Head	1g	5.18	51.8	57.30	-9.60	13
				10g	2.76	27.6	25.70	7.39	
3-28-2024	D2600V2	1097	Head	1g	6.08	60.8	57.30	6.11	14
				10g	2.77	27.7	25.70	7.78	
4-1-2024	D5GHzV2	1209	Head	1g	8.09	80.9	80.40	0.62	
				10g	2.35	23.5	22.90	2.62	
4-3-2024	D3500V2	1121	Head	1g	6.86	68.6	66.60	3.00	
				10g	2.65	26.5	25.10	5.58	
4-3-2024	D3700V2	1036	Head	1g	7.10	71.0	67.80	4.72	15
				10g	2.68	26.8	24.50	9.39	
4-3-2024	D3900V2	1069	Head	1g	7.33	73.3	69.40	5.62	
				10g	2.60	26.0	24.00	8.33	
4-8-2024	D3500V2	1121	Head	1g	7.00	70.0	66.60	5.11	
				10g	2.74	27.4	25.10	9.16	
4-8-2024	D3700V2	1036	Head	1g	6.99	69.9	67.80	3.10	
				10g	2.66	26.6	24.50	8.57	
4-8-2024	D3900V2	1069	Head	1g	6.95	69.5	69.40	0.14	
				10g	2.51	25.1	24.00	4.58	
4-18-2024	5GHzV2 5250	1209	Head	1g	8.15	81.5	80.40	1.37	
				10g	2.41	24.1	22.90	5.24	
4-18-2024	5GHzV2 5600	1209	Head	1g	8.86	88.6	83.10	6.62	16
				10g	2.57	25.7	23.60	8.90	
4-18-2024	5GHzV2 5800	1209	Head	1g	7.72	77.2	81.20	-4.93	
				10g	2.24	22.4	22.90	-2.18	

SAR 19 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.	
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W				
3-19-2024	D2600V2	1097	Head	1g	5.94	59.4	57.30	3.66	
				10g	2.77	27.7	25.70	7.78	
4-1-2024	D2600V2	1097	Head	1g	5.89	58.9	57.30	2.79	
				10g	2.73	27.3	25.70	6.23	
4-3-2024	D2600V2	1097	Head	1g	6.09	60.9	57.30	6.28	17
				10g	2.81	28.1	25.70	9.34	
4-8-2024	D2600V2	1178	Head	1g	5.59	55.9	57.40	-2.61	
				10g	2.64	26.4	25.70	2.72	

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 (Ant.A & Ant.A+B) Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			
					DSI = 0, 1, 2, 3			
					Measured		Tune-up Limit	
					Burst Pw r	Frame Pw r	Burst Pw r	Frame Pw r
GSM (Voice)	CS1	1	128	824.2	32.21	23.02	33.3	24.1
			190	836.6	32.04	22.85		
			251	848.8	31.87	22.68		
GPRS (GMSK)	CS1	1	128	824.2	32.20	23.01	33.3	24.1
			190	836.6	31.96	22.77		
			251	848.8	31.77	22.58		
		2	128	824.2	31.17	24.99	32.5	26.3
			190	836.6	30.85	24.67		
			251	848.8	30.72	24.54		
		3	128	824.2	29.07	24.65	30.5	26.1
			190	836.6	28.85	24.43		
			251	848.8	28.63	24.21		
		4	128	824.2	27.12	23.95	28.5	25.3
			190	836.6	26.91	23.74		
			251	848.8	26.81	23.64		
EGPRS (8PSK)	MCS5	1	128	824.2	26.49	17.30	28.0	18.8
			190	836.6	26.54	17.35		
			251	848.8	26.42	17.23		
		2	128	824.2	24.99	18.81	26.0	19.8
			190	836.6	24.60	18.42		
			251	848.8	24.42	18.24		
		3	128	824.2	22.92	18.50	24.0	19.6
			190	836.6	22.61	18.19		
			251	848.8	22.49	18.07		
		4	128	824.2	21.92	18.75	23.0	19.8
			190	836.6	21.80	18.63		
			251	848.8	21.52	18.35		

Notes:

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

- GMSK (GPRS) mode with 2 time slots for All DSIs, based on the Tune-up Procedure. Refer to §6.3.
- SAR is not required for EGPRS (8PSK) mode because the maximum output power and tune-up limit is $\leq 1/4$ dB higher than GMSK GPRS or the adjusted SAR of the highest reported SAR of GMSK GPRS is ≤ 1.2 W/kg.

GSM850 (Ant.D) Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			
					DSI = 0, 1, 2, 3			
					Measured		Tune-up Limit	
					Burst Pw r	Frame Pw r	Burst Pw r	Frame Pw r
GSM (Voice)	CS1	1	128	824.2	32.14	22.95	33.3	24.1
			190	836.6	32.01	22.82		
			251	848.8	31.63	22.44		
GPRS (GMSK)	CS1	1	128	824.2	32.14	22.95	33.3	24.1
			190	836.6	31.96	22.77		
			251	848.8	31.56	22.37		
		2	128	824.2	31.29	25.11	32.5	26.3
			190	836.6	30.97	24.79		
			251	848.8	30.63	24.45		
		3	128	824.2	29.25	24.83	30.5	26.1
			190	836.6	28.87	24.45		
			251	848.8	28.68	24.26		
		4	128	824.2	27.17	24.00	28.5	25.3
			190	836.6	27.01	23.84		
			251	848.8	26.78	23.61		
EGPRS (8PSK)	MCS5	1	128	824.2	26.47	17.28	28.0	18.8
			190	836.6	26.63	17.44		
			251	848.8	26.38	17.19		
		2	128	824.2	24.87	18.69	26.0	19.8
			190	836.6	24.64	18.46		
			251	848.8	24.49	18.31		
		3	128	824.2	22.96	18.54	24.0	19.6
			190	836.6	22.62	18.20		
			251	848.8	22.36	17.94		
		4	128	824.2	21.74	18.57	23.0	19.8
			190	836.6	21.63	18.46		
			251	848.8	21.38	18.21		

Notes:

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

- GMSK (GPRS) mode with 2 time slots for All DSIs, based on the Tune-up Procedure. Refer to §6.3.
- SAR is not required for EGPRS (8PSK) mode because the maximum output power and tune-up limit is ≤ 1/4dB higher than GMSK GPRS or the adjusted SAR of the highest reported SAR of GMSK GPRS is ≤ 1.2W/kg.

GSM1900 (Ant.B) Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)				Maximum Allowed Average Power (dBm)			
					DSI = 0, 1				DSI = 2, 3			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	512	1850.2	26.78	17.59	28.5	19.3	29.17	19.98	30.5	21.3
			661	1880.0	27.68	18.49			29.41	20.22		
			810	1909.8	27.45	18.26			29.24	20.05		
GPRS (GMSK)	CS1	1	512	1850.2	26.77	17.58	28.5	19.3	29.17	19.98	30.5	21.3
			661	1880.0	27.03	17.84			29.22	20.03		
			810	1909.8	27.21	18.02			28.99	19.80		
		2	512	1850.2	23.79	17.61	25.5	19.3	27.32	21.14	29.0	22.8
			661	1880.0	24.24	18.06			27.30	21.12		
			810	1909.8	23.87	17.69			27.09	20.91		
		3	512	1850.2	22.21	17.79	23.7	19.3	26.45	22.03	27.0	22.6
			661	1880.0	22.40	17.98			25.56	21.14		
			810	1909.8	22.18	17.76			26.10	21.68		
		4	512	1850.2	21.39	18.22	22.5	19.3	24.67	21.50	25.0	21.8
			661	1880.0	21.64	18.47			24.42	21.25		
			810	1909.8	21.38	18.21			24.28	21.11		
EGPRS (8PSK)	MCS5	1	512	1850.2	24.85	15.66	26.5	17.3	24.82	15.63	26.5	17.3
			661	1880.0	24.84	15.65			25.30	16.11		
			810	1909.8	25.27	16.08			25.02	15.83		
		2	512	1850.2	23.27	17.09	25.0	18.8	23.26	17.08	25.0	18.8
			661	1880.0	23.52	17.34			23.19	17.01		
			810	1909.8	23.19	17.01			23.77	17.59		
		3	512	1850.2	21.81	17.39	22.0	17.6	21.14	16.72	22.0	17.6
			661	1880.0	21.48	17.06			21.58	17.16		
			810	1909.8	21.14	16.72			21.59	17.17		
		4	512	1850.2	20.08	16.91	21.0	17.8	20.97	17.80	21.0	17.8
			661	1880.0	20.78	17.61			20.79	17.62		
			810	1909.8	19.71	16.54			20.41	17.24		

Notes:

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

- GMSK (GPRS) mode with 2 time slots for DSI 2, 3, GMSK (GPRS) mode with 4 time slots for DSI 0,1 based on the Tune-up Procedure. Refer to §6.3.
- SAR is not required for EGPRS (8PSK) mode because the maximum output power and tune-up limit is ≤ 1/4dB higher than GMSK GPRS or the adjusted SAR of the highest reported SAR of GMSK GPRS is ≤ 1.2W/kg.

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
MPR (dB)	0	0	0.5	0.5	
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs}=\beta_{hs}/\beta_c$	30/15			

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

The following 5 Sub-tests were completed according to Release 6 procedures in table C,11.1.3 of 3GPP TS 34.121-1 v13. 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	-
	β_{hs}	22/15	12/15	30/15	4/15	5/15
	β_{ed}	1309/225	94/75	47/15	56/75	47/15
CM (dB)	1	3	2	3	1	
MPR (dB)	0	2	1	2	0	
HSDPA Specific Settings	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	A _{hs} = β_{hs}/β_c	30/15				
HSUPA Specific Settings	E-DPDCH	6	8	8	5	0
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E-TFCIs	5	5	2	5	1
	Reference E-TFCI	11	11	11	11	67
	Reference E-TFCI PO	4	4	4	4	18
	Reference E-TFCI	67	67	92	67	67
	Reference E-TFCI PO	18	18	18	18	18
	Reference E-TFCI	71	71	71	71	71
	Reference E-TFCI PO	23	23	23	23	23
	Reference E-TFCI	75	75	75	75	75
	Reference E-TFCI PO	26	26	26	26	26
	Reference E-TFCI	81	81	81	81	81
Reference E-TFCI PO	27	27	27	27	27	
Maximum Channelization Codes	2xSF2				SF4	

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108 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.		

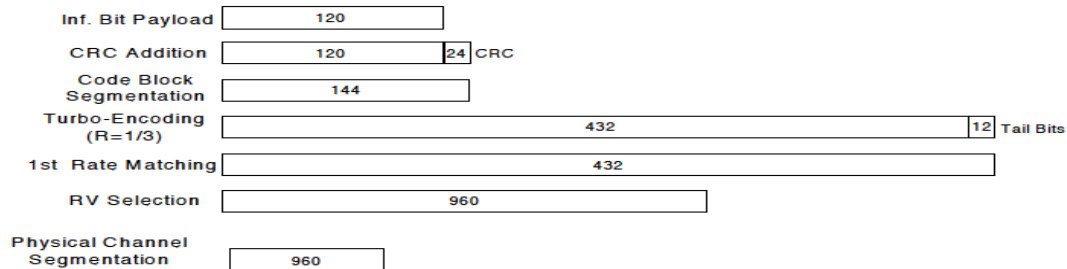


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 12			
	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
HSDPA Specific Settings	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
CQI Repetition Factor	2				
$A_{hs} = \beta_{hs}/\beta_c$	30/15				

HSPA+

HSPA+ is only supported to down link. Therefore, the RF conducted power is not measured.

W-CDMA Band II (Ant.B) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				DSI = 0, 1			DSI = 2, 3		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	19.27	N/A	20.0	23.99	N/A	25.0
		9400	1880.0	19.32			23.84		
		9538	1907.6	19.24			23.83		
HSDPA	Subtest 1	9262	1852.4	18.05	0	19.0	22.92	0	24.0
		9400	1880.0	18.02			22.83		
		9538	1907.6	17.99			22.85		
	Subtest 2	9262	1852.4	18.08	0	19.0	22.93	0	24.0
		9400	1880.0	17.99			22.85		
		9538	1907.6	18.00			22.82		
	Subtest 3	9262	1852.4	17.52	0.5	18.5	22.43	0.5	23.5
		9400	1880.0	17.44			22.31		
		9538	1907.6	17.48			22.32		
	Subtest 4	9262	1852.4	17.54	0.5	18.5	22.38	0.5	23.5
		9400	1880.0	17.49			22.33		
		9538	1907.6	17.48			22.26		
HSUPA	Subtest 1	9262	1852.4	18.04	0	19.0	22.91	0	24.0
		9400	1880.0	17.96			22.81		
		9538	1907.6	17.99			22.81		
	Subtest 2	9262	1852.4	16.07	2	17.0	20.95	2	22.0
		9400	1880.0	16.00			20.85		
		9538	1907.6	15.99			20.80		
	Subtest 3	9262	1852.4	17.07	1	18.0	21.93	1	23.0
		9400	1880.0	17.24			21.82		
		9538	1907.6	17.26			21.81		
	Subtest 4	9262	1852.4	16.47	2	17.0	20.93	2	22.0
		9400	1880.0	16.36			20.88		
		9538	1907.6	16.29			20.83		
	Subtest 5	9262	1852.4	18.47	0	19.0	22.50	0	24.0
		9400	1880.0	18.36			22.45		
		9538	1907.6	18.23			22.42		
DC-HSDPA	Subtest 1	9262	1852.4	18.08	0	19.0	22.71	0	24.0
		9400	1880.0	18.01			22.61		
		9538	1907.6	18.02			22.64		
	Subtest 2	9262	1852.4	18.04	0	19.0	22.64	0	24.0
		9400	1880.0	17.99			22.61		
		9538	1907.6	18.00			22.62		
	Subtest 3	9262	1852.4	17.53	0.5	18.5	22.22	0.5	23.5
		9400	1880.0	17.49			22.06		
		9538	1907.6	17.49			22.09		
	Subtest 4	9262	1852.4	17.53	0.5	18.5	22.19	0.5	23.5
		9400	1880.0	17.54			22.09		
		9538	1907.6	17.52			22.09		

W-CDMA Band IV (Ant.B) Measured Results

Mode	UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)			
			DSI = 0, 1			DSI = 2, 3			
			Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit	
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	19.60	NA	20.0	23.80	NA	24.8
		1413	1732.6	19.34			23.64		
		1513	1752.6	19.22			23.50		
HSDPA	Subtest 1	1312	1712.4	18.59	0	19.0	22.81	0	23.8
		1413	1732.6	18.32			22.68		
		1513	1752.6	18.24			22.46		
	Subtest 2	1312	1712.4	18.60	0	19.0	22.76	0	23.8
		1413	1732.6	18.35			22.66		
		1513	1752.6	18.22			22.50		
	Subtest 3	1312	1712.4	18.09	0.5	18.5	22.26	0.5	23.3
		1413	1732.6	17.82			22.15		
		1513	1752.6	17.71			21.97		
	Subtest 4	1312	1712.4	18.07	0.5	18.5	22.28	0.5	23.3
		1413	1732.6	17.81			22.16		
		1513	1752.6	17.72			21.98		
HSUPA	Subtest 1	1312	1712.4	18.58	0	19.0	22.76	0	23.8
		1413	1732.6	18.30			22.65		
		1513	1752.6	18.19			22.48		
	Subtest 2	1312	1712.4	16.57	2	17.0	20.73	2	21.8
		1413	1732.6	16.34			20.64		
		1513	1752.6	16.23			20.46		
	Subtest 3	1312	1712.4	17.59	1	18.0	21.72	1	22.8
		1413	1732.6	17.35			21.67		
		1513	1752.6	17.25			21.46		
	Subtest 4	1312	1712.4	16.58	2	17.0	20.73	2	21.8
		1413	1732.6	16.32			20.66		
		1513	1752.6	16.24			20.54		
Subtest 5	1312	1712.4	18.20	0	19.0	22.35	0	23.8	
	1413	1732.6	17.93			22.25			
	1513	1752.6	18.67			22.15			
DC-HSDPA	Subtest 1	1312	1712.4	18.61	0	19.0	22.83	0	23.8
		1413	1732.6	18.35			22.70		
		1513	1752.6	18.28			22.52		
	Subtest 2	1312	1712.4	18.62	0	19.0	22.83	0	23.8
		1413	1732.6	18.39			22.68		
		1513	1752.6	18.27			22.51		
	Subtest 3	1312	1712.4	18.10	0.5	18.5	22.32	0.5	23.3
		1413	1732.6	17.86			22.15		
		1513	1752.6	18.15			22.00		
	Subtest 4	1312	1712.4	18.22	0.5	18.5	22.24	0.5	23.3
		1413	1732.6	18.17			22.17		
		1513	1752.6	18.04			21.98		

W-CDMA Band V (Ant.A & Ant.A+B) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)		
				DSI = 0, 1, 2, 3		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.70	N/A	25.5
		4183	836.6	24.55		
		4233	846.6	24.42		
HSDPA	Subtest 1	4132	826.4	23.70	0	24.5
		4183	836.6	23.52		
		4233	846.6	23.42		
	Subtest 2	4132	826.4	23.70	0	24.5
		4183	836.6	23.51		
		4233	846.6	23.40		
	Subtest 3	4132	826.4	23.20	0.5	24.0
		4183	836.6	23.04		
		4233	846.6	22.87		
	Subtest 4	4132	826.4	23.20	0.5	24.0
		4183	836.6	23.05		
		4233	846.6	22.90		
HSUPA	Subtest 1	4132	826.4	23.66	0	24.5
		4183	836.6	23.56		
		4233	846.6	23.44		
	Subtest 2	4132	826.4	21.68	2	22.5
		4183	836.6	21.53		
		4233	846.6	21.42		
	Subtest 3	4132	826.4	22.65	1	23.5
		4183	836.6	22.52		
		4233	846.6	22.40		
	Subtest 4	4132	826.4	21.68	2	22.5
		4183	836.6	21.53		
		4233	846.6	21.38		
	Subtest 5	4132	826.4	23.22	0	24.5
		4183	836.6	23.10		
		4233	846.6	22.98		
DC-HSDPA	Subtest 1	4132	826.4	23.70	0	24.5
		4183	836.6	23.52		
		4233	846.6	23.40		
	Subtest 2	4132	826.4	23.69	0	24.5
		4183	836.6	23.51		
		4233	846.6	23.39		
	Subtest 3	4132	826.4	23.17	0.5	24.0
		4183	836.6	23.01		
		4233	846.6	22.88		
	Subtest 4	4132	826.4	23.18	0.5	24.0
		4183	836.6	23.03		
		4233	846.6	22.88		

W-CDMA Band V (Ant.D) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)		
				DSI = 0, 1, 2, 3		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.27	N/A	25.5
		4183	836.6	24.13		
		4233	846.6	24.02		
HSDPA	Subtest 1	4132	826.4	23.31	0	24.5
		4183	836.6	23.15		
		4233	846.6	23.00		
	Subtest 2	4132	826.4	23.33	0	24.5
		4183	836.6	23.06		
		4233	846.6	23.01		
	Subtest 3	4132	826.4	22.80	0.5	24.0
		4183	836.6	22.66		
		4233	846.6	22.49		
	Subtest 4	4132	826.4	22.80	0.5	24.0
		4183	836.6	22.64		
		4233	846.6	22.52		
HSUPA	Subtest 1	4132	826.4	23.32	0	24.5
		4183	836.6	23.16		
		4233	846.6	23.03		
	Subtest 2	4132	826.4	21.33	2	22.5
		4183	836.6	21.15		
		4233	846.6	21.00		
	Subtest 3	4132	826.4	22.31	1	23.5
		4183	836.6	22.16		
		4233	846.6	22.02		
	Subtest 4	4132	826.4	21.32	2	22.5
		4183	836.6	21.15		
		4233	846.6	21.02		
	Subtest 5	4132	826.4	22.87	0	24.5
		4183	836.6	22.71		
		4233	846.6	22.58		
DC-HSDPA	Subtest 1	4132	826.4	23.34	0	24.5
		4183	836.6	23.17		
		4233	846.6	23.04		
	Subtest 2	4132	826.4	23.30	0	24.5
		4183	836.6	23.13		
		4233	846.6	23.02		
	Subtest 3	4132	826.4	22.78	0.5	24.0
		4183	836.6	22.65		
		4233	846.6	22.53		
	Subtest 4	4132	826.4	22.81	0.5	24.0
		4183	836.6	22.63		
		4233	846.6	22.51		

9.3. LTE

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

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

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

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

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

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

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

Maximum Output Power (Tune-up Limit) for LTE

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

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

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths.

When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

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

SAR measurement is not required for Higher order modulations. When the highest maximum output power for Higher order modulations are ≤ 0.5 dB higher than the QPSK or when the reported SAR for QPSK configuration is ≤ 1.45 W/kg.

LTE Band 12 (Ant A & Ant.A+B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					
				DSI = 0, 1, 2, 3					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				23060	23095	23130			
704 MHz	707.5 MHz	711 MHz							
10 MHz	QPSK	1	0		24.48		0.0	25.5	
		1	25		24.63		0.0	25.5	
		1	49		24.70		0.0	25.5	
		25	0		23.54		1.0	24.5	
		25	12		23.59		1.0	24.5	
		25	25		23.71		1.0	24.5	
	16QAM	50	0		23.58		1.0	24.5	
		1	0		23.68		1.0	24.5	
		1	25		23.82		1.0	24.5	
		1	49		23.85		1.0	24.5	
		25	0		22.62		2.0	23.5	
		25	12		22.64		2.0	23.5	
	64QAM	25	25		22.77		2.0	23.5	
		50	0		22.64		2.0	23.5	
		1	0		22.68		2.0	23.5	
		1	25		22.79		2.0	23.5	
		1	49		22.82		2.0	23.5	
		25	0		21.57		3.0	22.5	
	256QAM	25	12		21.63		3.0	22.5	
		25	25		21.70		3.0	22.5	
		50	0		21.62		3.0	22.5	
		1	0		19.52		5.0	20.5	
		1	25		19.75		5.0	20.5	
		1	49		19.69		5.0	20.5	
	5 MHz	QPSK	25	0		19.59		5.0	20.5
25			12		19.64		5.0	20.5	
25			25		19.72		5.0	20.5	
50			0		19.60		5.0	20.5	
1			0		24.38	24.46	24.44	0.0	25.5
1			12		24.45	24.55	24.53	0.0	25.5
16QAM		1	24		24.38	24.39	24.44	0.0	25.5
		12	0		23.37	23.39	23.38	1.0	24.5
		12	7		23.42	23.41	23.47	1.0	24.5
		12	13		23.39	23.47	23.40	1.0	24.5
		25	0		23.37	23.40	23.41	1.0	24.5
		1	0		23.86	23.82	23.78	1.0	24.5
64QAM		1	12		23.95	23.83	23.92	1.0	24.5
		1	24		23.83	23.77	23.77	1.0	24.5
		12	0		22.36	22.46	22.52	2.0	23.5
		12	7		22.48	22.45	22.64	2.0	23.5
		12	13		22.41	22.51	22.56	2.0	23.5
		25	0		22.42	22.44	22.48	2.0	23.5
256QAM	1	0		22.51	22.51	22.56	2.0	23.5	
	1	12		22.61	22.61	22.65	2.0	23.5	
	1	24		22.49	22.46	22.52	2.0	23.5	
	12	0		21.36	21.38	21.35	3.0	22.5	
	12	7		21.45	21.38	21.44	3.0	22.5	
	12	13		21.38	21.44	21.41	3.0	22.5	
256QAM	25	0		21.39	21.34	21.39	3.0	22.5	
	1	0		19.54	19.46	19.50	5.0	20.5	
	1	12		19.68	19.58	19.65	5.0	20.5	
	1	24		19.53	19.45	19.47	5.0	20.5	
	12	0		19.35	19.37	19.38	5.0	20.5	
	12	7		19.46	19.37	19.45	5.0	20.5	
256QAM	12	13		19.39	19.42	19.42	5.0	20.5	
	25	0		19.38	19.36	19.42	5.0	20.5	

LTE Band 12 (Ant A & Ant.A+B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	24.35	24.39	24.37	0.0	25.5
		1	8	24.45	24.49	24.44	0.0	25.5
		1	14	24.34	24.37	24.31	0.0	25.5
		8	0	23.39	23.34	23.36	1.0	24.5
		8	4	23.41	23.34	23.42	1.0	24.5
		8	7	23.37	23.41	23.40	1.0	24.5
	16QAM	15	0	23.39	23.37	23.40	1.0	24.5
		1	0	23.72	23.79	23.79	1.0	24.5
		1	8	23.86	23.79	23.93	1.0	24.5
		1	14	23.63	23.65	23.79	1.0	24.5
		8	0	22.52	22.44	22.37	2.0	23.5
		8	4	22.49	22.46	22.47	2.0	23.5
	64QAM	8	7	22.48	22.54	22.47	2.0	23.5
		15	0	22.41	22.35	22.48	2.0	23.5
		1	0	22.60	22.57	22.52	2.0	23.5
		1	8	22.72	22.68	22.63	2.0	23.5
		1	14	22.54	22.49	22.51	2.0	23.5
		8	0	21.44	21.38	21.37	3.0	22.5
	256QAM	8	4	21.40	21.38	21.47	3.0	22.5
		8	7	21.42	21.47	21.46	3.0	22.5
		15	0	21.36	21.35	21.43	3.0	22.5
1		0	19.35	19.48	19.45	5.0	20.5	
1		8	19.56	19.63	19.62	5.0	20.5	
1		14	19.43	19.51	19.44	5.0	20.5	
1.4 MHz	QPSK	8	0	19.41	19.37	19.37	5.0	20.5
		8	4	19.42	19.40	19.45	5.0	20.5
		8	7	19.40	19.47	19.44	5.0	20.5
		15	0	19.36	19.34	19.41	5.0	20.5
		1	0	24.26	24.36	24.34	0.0	25.5
		1	3	24.25	24.38	24.31	0.0	25.5
	16QAM	1	5	24.27	24.38	24.35	0.0	25.5
		3	0	24.26	24.34	24.31	0.0	25.5
		3	1	24.24	24.36	24.31	0.0	25.5
		3	3	24.25	24.36	24.26	0.0	25.5
		6	0	23.31	23.30	23.34	1.0	24.5
		1	0	23.48	23.67	23.58	1.0	24.5
	64QAM	1	3	23.52	23.67	23.56	1.0	24.5
		1	5	23.49	23.67	23.57	1.0	24.5
		3	0	23.42	23.49	23.47	1.0	24.5
		3	1	23.42	23.51	23.47	1.0	24.5
		3	3	23.44	23.51	23.46	1.0	24.5
		6	0	22.35	22.35	22.47	2.0	23.5
	256QAM	1	0	22.53	22.57	22.41	2.0	23.5
		1	3	22.51	22.59	22.47	2.0	23.5
		1	5	22.49	22.61	22.40	2.0	23.5
3		0	22.36	22.37	22.46	2.0	23.5	
3		1	22.37	22.38	22.48	2.0	23.5	
3		3	22.38	22.41	22.46	2.0	23.5	
256QAM	6	0	21.40	21.33	21.33	3.0	22.5	
	1	0	19.41	19.46	19.49	5.0	20.5	
	1	3	19.44	19.56	19.51	5.0	20.5	
	1	5	19.41	19.51	19.47	5.0	20.5	
	3	0	19.40	19.40	19.42	5.0	20.5	
	3	1	19.39	19.41	19.43	5.0	20.5	
256QAM	3	3	19.42	19.47	19.39	5.0	20.5	
	6	0	19.25	19.34	19.39	5.0	20.5	

LTE Band 12 (Ant D) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						
				DSI = 0, 1, 2, 3					MPR	Tune-up Limit
				Measured Pwr (dBm)			MPR	Tune-up Limit		
				23060	23095	23130				
			704 MHz	707.5 MHz	711 MHz					
10 MHz	QPSK	1	0		24.51		0.0	25.5		
		1	25		24.65		0.0	25.5		
		1	49		24.63		0.0	25.5		
		25	0		23.65		1.0	24.5		
		25	12		23.69		1.0	24.5		
		25	25		23.77		1.0	24.5		
	16QAM	50	0		23.67		1.0	24.5		
		1	0		23.78		1.0	24.5		
		1	25		24.02		1.0	24.5		
		1	49		23.95		1.0	24.5		
		25	0		22.70		2.0	23.5		
		25	12		22.76		2.0	23.5		
	64QAM	25	25		22.82		2.0	23.5		
		50	0		22.71		2.0	23.5		
		1	0		22.71		2.0	23.5		
		1	25		22.97		2.0	23.5		
		1	49		22.88		2.0	23.5		
		25	0		21.67		3.0	22.5		
	256QAM	25	12		21.71		3.0	22.5		
		25	25		21.78		3.0	22.5		
50		0		21.68		3.0	22.5			
1		0		19.74		5.0	20.5			
1		25		19.82		5.0	20.5			
1		49		19.84		5.0	20.5			
5 MHz	QPSK	25	0		19.65		5.0	20.5		
		25	12		19.67		5.0	20.5		
		25	25		19.74		5.0	20.5		
		50	0		19.65		5.0	20.5		
		1	0		24.27	24.35	24.29	0.0	25.5	
		1	12		24.37	24.43	24.36	0.0	25.5	
	16QAM	1	24		24.23	24.28	24.28	0.0	25.5	
		12	0		23.25	23.28	23.27	1.0	24.5	
		12	7		23.34	23.30	23.36	1.0	24.5	
		12	13		23.32	23.32	23.29	1.0	24.5	
		25	0		23.27	23.27	23.30	1.0	24.5	
		1	0		23.46	23.45	23.38	1.0	24.5	
	64QAM	1	12		23.53	23.53	23.48	1.0	24.5	
		1	24		23.47	23.44	23.38	1.0	24.5	
		12	0		22.22	22.32	22.32	2.0	23.5	
		12	7		22.32	22.32	22.38	2.0	23.5	
		12	13		22.25	22.39	22.38	2.0	23.5	
		25	0		22.31	22.25	22.33	2.0	23.5	
	256QAM	1	0		22.39	22.46	22.53	2.0	23.5	
		1	12		22.48	22.57	22.60	2.0	23.5	
1		24		22.35	22.41	22.50	2.0	23.5		
12		0		21.24	21.30	21.30	3.0	22.5		
12		7		21.33	21.31	21.36	3.0	22.5		
12		13		21.30	21.36	21.35	3.0	22.5		
QPSK	25	0		21.32	21.25	21.35	3.0	22.5		
	1	0		19.40	19.43	19.45	5.0	20.5		
	1	12		19.48	19.63	19.59	5.0	20.5		
	1	24		19.38	19.46	19.40	5.0	20.5		
	12	0		19.25	19.29	19.27	5.0	20.5		
	12	7		19.35	19.31	19.34	5.0	20.5		
	12	13		19.33	19.33	19.34	5.0	20.5		
	25	0		19.29	19.25	19.36	5.0	20.5		

LTE Band 12 (Ant D) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	24.22	24.31	24.23	0.0	25.5
		1	8	24.33	24.37	24.39	0.0	25.5
		1	14	24.21	24.28	24.23	0.0	25.5
		8	0	23.26	23.28	23.23	1.0	24.5
		8	4	23.25	23.23	23.30	1.0	24.5
		8	7	23.26	23.34	23.30	1.0	24.5
	16QAM	15	0	23.25	23.26	23.28	1.0	24.5
		1	0	23.46	23.45	23.38	1.0	24.5
		1	8	23.59	23.53	23.48	1.0	24.5
		1	14	23.42	23.37	23.35	1.0	24.5
		8	0	22.29	22.30	22.30	2.0	23.5
		8	4	22.33	22.31	22.35	2.0	23.5
	64QAM	8	7	22.33	22.37	22.38	2.0	23.5
		15	0	22.27	22.26	22.32	2.0	23.5
		1	0	22.39	22.58	22.41	2.0	23.5
		1	8	22.56	22.68	22.53	2.0	23.5
		1	14	22.41	22.54	22.36	2.0	23.5
		8	0	21.31	21.29	21.28	3.0	22.5
	256QAM	8	4	21.30	21.27	21.39	3.0	22.5
		8	7	21.32	21.36	21.37	3.0	22.5
		15	0	21.27	21.28	21.32	3.0	22.5
1		0	19.36	19.29	19.37	5.0	20.5	
1		8	19.48	19.53	19.52	5.0	20.5	
1		14	19.38	19.39	19.37	5.0	20.5	
1.4 MHz	QPSK	8	0	19.29	19.30	19.23	5.0	20.5
		8	4	19.30	19.33	19.36	5.0	20.5
		8	7	19.32	19.37	19.34	5.0	20.5
		15	0	19.27	19.27	19.31	5.0	20.5
		1	0	24.19	24.28	24.27	0.0	25.5
		1	3	24.15	24.27	24.27	0.0	25.5
	16QAM	1	5	24.15	24.32	24.27	0.0	25.5
		3	0	24.20	24.26	24.23	0.0	25.5
		3	1	24.19	24.26	24.22	0.0	25.5
		3	3	24.19	24.32	24.20	0.0	25.5
		6	0	23.20	23.25	23.27	1.0	24.5
		1	0	23.31	23.42	23.34	1.0	24.5
	64QAM	1	3	23.32	23.44	23.36	1.0	24.5
		1	5	23.26	23.46	23.30	1.0	24.5
		3	0	23.28	23.29	23.35	1.0	24.5
		3	1	23.26	23.24	23.38	1.0	24.5
		3	3	23.29	23.30	23.36	1.0	24.5
		6	0	22.28	22.30	22.43	2.0	23.5
	256QAM	1	0	22.41	22.38	22.44	2.0	23.5
		1	3	22.40	22.44	22.51	2.0	23.5
		1	5	22.38	22.45	22.45	2.0	23.5
3		0	22.29	22.36	22.36	2.0	23.5	
3		1	22.30	22.36	22.39	2.0	23.5	
3		3	22.31	22.38	22.35	2.0	23.5	
256QAM	6	0	21.16	21.21	21.36	3.0	22.5	
	1	0	19.39	19.34	19.42	5.0	20.5	
	1	3	19.37	19.40	19.44	5.0	20.5	
	1	5	19.39	19.39	19.38	5.0	20.5	
	3	0	19.33	19.26	19.35	5.0	20.5	
	3	1	19.32	19.27	19.34	5.0	20.5	
256QAM	3	3	19.31	19.31	19.32	5.0	20.5	
	6	0	19.23	19.36	19.22	5.0	20.5	

LTE Band 13 (Ant A & Ant.A+B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					
				DSI = 0, 1, 2, 3					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
23205	23230	23255							
10 MHz	QPSK	1	0		23.30		0.0	25.0	
		1	25		23.32		0.0	25.0	
		1	49		23.22		0.0	25.0	
		25	0		22.34		1.0	24.0	
		25	12		22.33		1.0	24.0	
		25	25		22.29		1.0	24.0	
	16QAM	50	0		22.31		1.0	24.0	
		1	0		22.58		1.0	24.0	
		1	25		22.60		1.0	24.0	
		1	49		22.44		1.0	24.0	
		25	0		21.34		2.0	23.0	
		25	12		21.34		2.0	23.0	
	64QAM	25	25		21.30		2.0	23.0	
		50	0		21.30		2.0	23.0	
		1	0		21.45		2.0	23.0	
		1	25		21.41		2.0	23.0	
		1	49		21.35		2.0	23.0	
		25	0		20.34		3.0	22.0	
	256QAM	25	12		20.32		3.0	22.0	
		25	25		20.27		3.0	22.0	
		50	0		20.28		3.0	22.0	
		1	0		18.40		5.0	20.0	
		1	25		18.45		5.0	20.0	
		1	49		18.28		5.0	20.0	
	5 MHz	QPSK	25	0		18.30		5.0	20.0
			25	12		18.28		5.0	20.0
			25	25		18.26		5.0	20.0
			50	0		18.27		5.0	20.0
1			0		23.17		0.0	25.0	
1			12		23.19		0.0	25.0	
16QAM		1	24		23.08		0.0	25.0	
		12	0		22.13		1.0	24.0	
		12	7		22.16		1.0	24.0	
		12	13		22.12		1.0	24.0	
		25	0		22.13		1.0	24.0	
		1	0		22.56		1.0	24.0	
64QAM		1	12		22.60		1.0	24.0	
		1	24		22.55		1.0	24.0	
		12	0		21.17		2.0	23.0	
		12	7		21.18		2.0	23.0	
		12	13		21.12		2.0	23.0	
		25	0		21.13		2.0	23.0	
256QAM		1	0		21.44		2.0	23.0	
		1	12		21.43		2.0	23.0	
		1	24		21.36		2.0	23.0	
		12	0		20.18		3.0	22.0	
		12	7		20.21		3.0	22.0	
		12	13		20.13		3.0	22.0	
QPSK		25	0		20.15		3.0	22.0	
		1	0		18.22		5.0	20.0	
		1	12		18.26		5.0	20.0	
		1	24		18.15		5.0	20.0	
	12	0		18.17		5.0	20.0		
	12	7		18.18		5.0	20.0		
	12	13		18.11		5.0	20.0		
	25	0		18.11		5.0	20.0		

LTE Band 13 (Ant D) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				DSI = 0, 1, 2, 3				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				23230	782 MHz			
10 MHz	QPSK	1	0		23.20		0.0	25.0
		1	25		23.15		0.0	25.0
		1	49		23.07		0.0	25.0
		25	0		22.21		1.0	24.0
		25	12		22.17		1.0	24.0
		25	25		22.15		1.0	24.0
	16QAM	50	0		22.18		1.0	24.0
		1	0		22.47		1.0	24.0
		1	25		22.39		1.0	24.0
		1	49		22.30		1.0	24.0
		25	0		21.24		2.0	23.0
		25	12		21.24		2.0	23.0
	64QAM	25	25		21.18		2.0	23.0
		50	0		21.19		2.0	23.0
		1	0		21.31		2.0	23.0
		1	25		21.26		2.0	23.0
		1	49		21.24		2.0	23.0
		25	0		20.24		3.0	22.0
	256QAM	25	12		20.20		3.0	22.0
		25	25		20.11		3.0	22.0
		50	0		20.18		3.0	22.0
		1	0		18.31		5.0	20.0
		1	25		18.37		5.0	20.0
		1	49		18.16		5.0	20.0
	5 MHz	QPSK	25	0		18.20		5.0
25			12		18.21		5.0	20.0
25			25		18.16		5.0	20.0
50			0		18.16		5.0	20.0
1			0		23.44		0.0	25.0
1			12		23.42		0.0	25.0
16QAM		1	24		23.37		0.0	25.0
		12	0		22.40		1.0	24.0
		12	7		22.42		1.0	24.0
		12	13		22.33		1.0	24.0
		25	0		22.38		1.0	24.0
		1	0		22.56		1.0	24.0
64QAM		1	12		22.55		1.0	24.0
		1	24		22.48		1.0	24.0
		12	0		21.41		2.0	23.0
		12	7		21.42		2.0	23.0
		12	13		21.39		2.0	23.0
		25	0		21.38		2.0	23.0
256QAM		1	0		21.50		2.0	23.0
		1	12		21.56		2.0	23.0
		1	24		21.47		2.0	23.0
		12	0		20.43		3.0	22.0
		12	7		20.47		3.0	22.0
		12	13		20.38		3.0	22.0
QPSK		25	0		20.42		3.0	22.0
	1	0		18.55		5.0	20.0	
	1	12		18.60		5.0	20.0	
	1	24		18.46		5.0	20.0	
	12	0		18.42		5.0	20.0	
	12	7		18.44		5.0	20.0	
	12	13		18.40		5.0	20.0	
16QAM	25	0		18.36		5.0	20.0	
	1	0		23.205	23.230	23.255	MPR	Tune-up Limit
	1	12		779.5 MHz	782 MHz	784.5 MHz		

LTE Band 26 (Ant A & Ant.A+B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						
				DSI = 0, 1, 2, 3					MPR	Tune-up Limit
				Measured Pwr (dBm)			MPR	Tune-up Limit		
				26765	26865	26965				
			821.5 MHz	831.5 MHz	841.5 MHz					
15 MHz	QPSK	1	0		24.17		0.0	25.5		
		1	37		24.11		0.0	25.5		
		1	74		24.05		0.0	25.5		
		36	0		23.20		1.0	24.5		
		36	20		23.17		1.0	24.5		
		36	39		23.18		1.0	24.5		
	75	0		23.18		1.0	24.5			
	16QAM	1	0		23.54		1.0	24.5		
		1	37		23.55		1.0	24.5		
		1	74		23.45		1.0	24.5		
		36	0		22.26		2.0	23.5		
		36	20		22.21		2.0	23.5		
		36	39		22.23		2.0	23.5		
	75	0		22.20		2.0	23.5			
	64QAM	1	0		22.40		2.0	23.5		
		1	37		22.41		2.0	23.5		
		1	74		22.30		2.0	23.5		
		36	0		21.26		3.0	22.5		
		36	20		21.21		3.0	22.5		
		36	39		21.22		3.0	22.5		
	75	0		21.21		3.0	22.5			
	256QAM	1	0		19.35		5.0	20.5		
		1	37		19.35		5.0	20.5		
		1	74		19.23		5.0	20.5		
36		0		19.23		5.0	20.5			
36		20		19.19		5.0	20.5			
36		39		19.20		5.0	20.5			
75	0		19.19		5.0	20.5				
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit		
				26740	26865	26990				
				819 MHz	831.5 MHz	844 MHz				
10 MHz	QPSK	1	0	24.03	24.18	24.09	0.0	25.5		
		1	25	24.09	24.17	24.13	0.0	25.5		
		1	49	24.18	24.15	24.07	0.0	25.5		
		25	0	23.04	23.18	23.15	1.0	24.5		
		25	12	23.18	23.23	23.16	1.0	24.5		
		25	25	23.16	23.23	23.20	1.0	24.5		
	50	0	23.14	23.17	23.13	1.0	24.5			
	16QAM	1	0	23.31	23.43	23.40	1.0	24.5		
		1	25	23.37	23.43	23.46	1.0	24.5		
		1	49	23.47	23.38	23.35	1.0	24.5		
		25	0	22.07	22.23	22.18	2.0	23.5		
		25	12	22.20	22.25	22.21	2.0	23.5		
		25	25	22.18	22.31	22.25	2.0	23.5		
	50	0	22.18	22.18	22.17	2.0	23.5			
	64QAM	1	0	22.26	22.33	22.35	2.0	23.5		
		1	25	22.33	22.40	22.45	2.0	23.5		
		1	49	22.31	22.28	22.36	2.0	23.5		
		25	0	21.04	21.15	21.17	3.0	22.5		
		25	12	21.16	21.17	21.18	3.0	22.5		
		25	25	21.15	21.24	21.21	3.0	22.5		
	50	0	21.15	21.14	21.15	3.0	22.5			
	256QAM	1	0	19.17	19.28	19.27	5.0	20.5		
		1	25	19.23	19.36	19.39	5.0	20.5		
		1	49	19.28	19.30	19.20	5.0	20.5		
25		0	19.08	19.20	19.19	5.0	20.5			
25		12	19.20	19.23	19.21	5.0	20.5			
25		25	19.18	19.24	19.25	5.0	20.5			
50	0	19.16	19.18	19.16	5.0	20.5				

LTE Band 26 (Ant A & Ant.A+B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26715	26865	27015		
				816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.16	24.23	24.20	0.0	25.5
		1	12	24.23	24.32	24.32	0.0	25.5
		1	24	24.12	24.18	24.15	0.0	25.5
		12	0	23.04	23.20	23.15	1.0	24.5
		12	7	23.19	23.22	23.26	1.0	24.5
		12	13	23.13	23.25	23.21	1.0	24.5
	16QAM	25	0	23.09	23.15	23.17	1.0	24.5
		1	0	23.56	23.77	23.70	1.0	24.5
		1	12	23.67	23.81	23.70	1.0	24.5
		1	24	23.56	23.68	23.57	1.0	24.5
		12	0	22.14	22.24	22.14	2.0	23.5
		12	7	22.27	22.28	22.23	2.0	23.5
	64QAM	12	13	22.21	22.31	22.18	2.0	23.5
		25	0	22.14	22.20	22.17	2.0	23.5
		1	0	22.35	22.34	22.37	2.0	23.5
		1	12	22.38	22.46	22.50	2.0	23.5
		1	24	22.27	22.26	22.35	2.0	23.5
		12	0	21.07	21.20	21.17	3.0	22.5
	256QAM	12	7	21.18	21.25	21.26	3.0	22.5
		12	13	21.12	21.28	21.19	3.0	22.5
		25	0	21.13	21.17	21.21	3.0	22.5
1		0	19.20	19.32	19.28	5.0	20.5	
1		12	19.31	19.43	19.37	5.0	20.5	
1		24	19.24	19.32	19.27	5.0	20.5	
3 MHz	QPSK	12	0	19.09	19.23	19.18	5.0	20.5
		12	7	19.21	19.23	19.24	5.0	20.5
		12	13	19.15	19.30	19.22	5.0	20.5
		25	0	19.17	19.21	19.19	5.0	20.5
		1	0	24.02	24.18	24.13	0.0	25.5
		1	8	24.17	24.29	24.27	0.0	25.5
	16QAM	1	14	24.01	24.20	24.16	0.0	25.5
		8	0	23.10	23.17	23.12	1.0	24.5
		8	4	23.12	23.20	23.20	1.0	24.5
		8	7	23.11	23.27	23.21	1.0	24.5
		15	0	23.10	23.17	23.16	1.0	24.5
		1	0	23.37	23.63	23.56	1.0	24.5
		1	8	23.48	23.78	23.64	1.0	24.5
		1	14	23.34	23.70	23.57	1.0	24.5
		8	0	22.20	22.26	22.24	2.0	23.5
64QAM	8	4	22.21	22.27	22.33	2.0	23.5	
	8	7	22.22	22.36	22.31	2.0	23.5	
	15	0	22.17	22.21	22.22	2.0	23.5	
	1	0	22.15	22.37	22.33	2.0	23.5	
	1	8	22.36	22.53	22.43	2.0	23.5	
	1	14	22.19	22.39	22.31	2.0	23.5	
256QAM	8	0	21.13	21.27	21.18	3.0	22.5	
	8	4	21.15	21.27	21.25	3.0	22.5	
	8	7	21.15	21.34	21.26	3.0	22.5	
	15	0	21.12	21.16	21.19	3.0	22.5	
	1	0	19.02	19.23	19.28	5.0	20.5	
	1	8	19.25	19.46	19.39	5.0	20.5	
256QAM	1	14	19.05	19.27	19.22	5.0	20.5	
	8	0	19.15	19.22	19.14	5.0	20.5	
	8	4	19.17	19.28	19.22	5.0	20.5	
	8	7	19.18	19.29	19.25	5.0	20.5	
	15	0	19.15	19.20	19.20	5.0	20.5	

LTE Band 26 (Ant A & Ant.A+B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26697	26865	27033		
				814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.0	24.1	24.1	0.0	25.5
		1	3	24.0	24.3	24.2	0.0	25.5
		1	5	24.0	24.2	24.1	0.0	25.5
		3	0	24.0	24.1	24.1	0.0	25.5
		3	1	24.0	24.2	24.1	0.0	25.5
		3	3	24.0	24.2	24.1	0.0	25.5
	16QAM	6	0	22.5	22.6	22.6	1.0	24.5
		1	0	23.3	23.5	23.4	1.0	24.5
		1	3	23.3	23.6	23.4	1.0	24.5
		1	5	23.2	23.5	23.4	1.0	24.5
		3	0	23.1	23.3	23.3	1.0	24.5
		3	1	23.1	23.3	23.2	1.0	24.5
	64QAM	3	3	23.1	23.4	23.2	1.0	24.5
		6	0	22.1	22.2	22.2	2.0	23.5
		1	0	22.3	22.2	22.3	2.0	23.5
		1	3	22.4	22.4	22.4	2.0	23.5
		1	5	22.3	22.3	22.3	2.0	23.5
		3	0	22.3	22.3	22.2	2.0	23.5
	256QAM	3	1	22.3	22.3	22.2	2.0	23.5
		3	3	22.4	22.3	22.2	2.0	23.5
		6	0	21.1	21.2	21.1	3.0	22.5
		1	0	19.3	19.3	19.2	5.0	20.5
		1	3	19.4	19.4	19.2	5.0	20.5
		1	5	19.4	19.3	19.2	5.0	20.5
		3	0	19.2	19.2	19.2	5.0	20.5
		3	1	19.2	19.2	19.2	5.0	20.5
		3	3	19.3	19.3	19.2	5.0	20.5
		6	0	19.3	19.2	19.1	5.0	20.5

LTE Band 26 (Ant D) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						
				DSI = 0, 1, 2, 3					MPR	Tune-up Limit
				Measured Pwr (dBm)			MPR	Tune-up Limit		
				26765	26865	26965				
			821.5 MHz	831.5 MHz	841.5 MHz					
15 MHz	QPSK	1	0		24.17		0.0	25.5		
		1	37		24.11		0.0	25.5		
		1	74		24.02		0.0	25.5		
		36	0		23.11		1.0	24.5		
		36	20		23.04		1.0	24.5		
		36	39		23.05		1.0	24.5		
	75	0		23.03		1.0	24.5			
	16QAM	1	0		23.36		1.0	24.5		
		1	37		23.35		1.0	24.5		
		1	74		23.30		1.0	24.5		
		36	0		22.15		2.0	23.5		
		36	20		22.10		2.0	23.5		
		36	39		22.12		2.0	23.5		
	75	0		22.09		2.0	23.5			
	64QAM	1	0		22.19		2.0	23.5		
		1	37		22.15		2.0	23.5		
		1	74		22.02		2.0	23.5		
		36	0		21.10		3.0	22.5		
		36	20		21.05		3.0	22.5		
		36	39		21.06		3.0	22.5		
	75	0		21.04		3.0	22.5			
256QAM	1	0		19.28		5.0	20.5			
	1	37		19.27		5.0	20.5			
	1	74		19.15		5.0	20.5			
	36	0		19.13		5.0	20.5			
	36	20		19.09		5.0	20.5			
	36	39		19.09		5.0	20.5			
75	0		19.05		5.0	20.5				
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit		
				26740	26865	26990				
				819 MHz	831.5 MHz	844 MHz				
10 MHz	QPSK	1	0	24.07	24.08	24.13	0.0	25.5		
		1	25	24.12	24.15	24.12	0.0	25.5		
		1	49	24.12	24.06	24.05	0.0	25.5		
		25	0	23.10	23.17	23.09	1.0	24.5		
		25	12	23.22	23.19	23.19	1.0	24.5		
		25	25	23.20	23.23	23.16	1.0	24.5		
	50	0	23.18	23.15	23.19	1.0	24.5			
	16QAM	1	0	23.25	23.37	23.45	1.0	24.5		
		1	25	23.34	23.51	23.40	1.0	24.5		
		1	49	23.33	23.39	23.31	1.0	24.5		
		25	0	22.13	22.20	22.14	2.0	23.5		
		25	12	22.23	22.23	22.21	2.0	23.5		
		25	25	22.22	22.28	22.20	2.0	23.5		
	50	0	22.19	22.18	22.20	2.0	23.5			
	64QAM	1	0	22.27	22.28	22.23	2.0	23.5		
		1	25	22.36	22.29	22.40	2.0	23.5		
		1	49	22.34	22.30	22.23	2.0	23.5		
		25	0	21.11	21.16	21.08	3.0	22.5		
		25	12	21.21	21.20	21.19	3.0	22.5		
		25	25	21.18	21.24	21.15	3.0	22.5		
	50	0	21.18	21.15	21.16	3.0	22.5			
256QAM	1	0	19.26	19.35	19.20	5.0	20.5			
	1	25	19.34	19.31	19.36	5.0	20.5			
	1	49	19.32	19.35	19.28	5.0	20.5			
	25	0	19.12	19.14	19.14	5.0	20.5			
	25	12	19.24	19.20	19.24	5.0	20.5			
	25	25	19.23	19.24	19.17	5.0	20.5			
50	0	19.21	19.17	19.19	5.0	20.5				

LTE Band 26 (Ant D) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26715	26865	27015		
				816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.18	24.29	24.17	0.0	25.5
		1	12	24.27	24.29	24.17	0.0	25.5
		1	24	24.13	24.21	24.10	0.0	25.5
		12	0	23.13	23.13	23.06	1.0	24.5
		12	7	23.21	23.17	23.18	1.0	24.5
		12	13	23.19	23.22	23.18	1.0	24.5
	16QAM	25	0	23.14	23.13	23.17	1.0	24.5
		1	0	23.61	23.71	23.68	1.0	24.5
		1	12	23.59	23.74	23.81	1.0	24.5
		1	24	23.48	23.66	23.58	1.0	24.5
		12	0	22.20	22.15	22.10	2.0	23.5
		12	7	22.33	22.19	22.21	2.0	23.5
	64QAM	12	13	22.28	22.21	22.14	2.0	23.5
		25	0	22.22	22.17	22.20	2.0	23.5
		1	0	22.32	22.40	22.47	2.0	23.5
		1	12	22.38	22.45	22.47	2.0	23.5
		1	24	22.22	22.34	22.33	2.0	23.5
		12	0	21.14	21.21	21.12	3.0	22.5
	256QAM	12	7	21.25	21.24	21.25	3.0	22.5
		12	13	21.16	21.26	21.18	3.0	22.5
		25	0	21.18	21.15	21.18	3.0	22.5
		1	0	19.22	19.23	19.33	5.0	20.5
		1	12	19.43	19.40	19.39	5.0	20.5
		1	24	19.26	19.30	19.24	5.0	20.5
	3 MHz	QPSK	12	0	19.13	19.16	19.10	5.0
12			7	19.26	19.22	19.24	5.0	20.5
12			13	19.21	19.23	19.17	5.0	20.5
25			0	19.17	19.17	19.16	5.0	20.5
1			0	24.09	24.16	24.09	0.0	25.5
1			8	24.21	24.26	24.16	0.0	25.5
16QAM		1	14	24.05	24.17	24.11	0.0	25.5
		8	0	23.16	23.14	23.07	1.0	24.5
		8	4	23.12	23.17	23.16	1.0	24.5
		8	7	23.14	23.23	23.14	1.0	24.5
		15	0	23.16	23.14	23.12	1.0	24.5
		1	0	23.43	23.70	23.56	1.0	24.5
64QAM		1	8	23.61	23.79	23.59	1.0	24.5
		1	14	23.46	23.66	23.45	1.0	24.5
		8	0	22.21	22.24	22.18	2.0	23.5
		8	4	22.23	22.26	22.31	2.0	23.5
		8	7	22.22	22.35	22.31	2.0	23.5
		15	0	22.24	22.22	22.24	2.0	23.5
256QAM		1	0	22.29	22.34	22.29	2.0	23.5
		1	8	22.42	22.50	22.37	2.0	23.5
		1	14	22.24	22.33	22.29	2.0	23.5
		8	0	21.20	21.16	21.07	3.0	22.5
		8	4	21.22	21.19	21.21	3.0	22.5
		8	7	21.22	21.28	21.21	3.0	22.5
256QAM		15	0	21.16	21.19	21.15	3.0	22.5
	1	0	19.17	19.32	19.16	5.0	20.5	
	1	8	19.34	19.47	19.31	5.0	20.5	
	1	14	19.16	19.32	19.12	5.0	20.5	
	8	0	19.22	19.23	19.15	5.0	20.5	
	8	4	19.23	19.21	19.23	5.0	20.5	
256QAM	8	7	19.23	19.26	19.21	5.0	20.5	
	15	0	19.20	19.17	19.16	5.0	20.5	

LTE Band 26 (Ant D) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26697	26865	27033		
				814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.1	24.1	24.1	0.0	25.5
		1	3	24.2	24.2	24.1	0.0	25.5
		1	5	24.1	24.2	24.1	0.0	25.5
		3	0	24.1	24.1	24.1	0.0	25.5
		3	1	24.1	24.1	24.1	0.0	25.5
		3	3	24.1	24.2	24.1	0.0	25.5
	16QAM	6	0	22.6	22.6	22.6	1.0	24.5
		1	0	23.4	23.5	23.4	1.0	24.5
		1	3	23.4	23.6	23.4	1.0	24.5
		1	5	23.3	23.5	23.3	1.0	24.5
		3	0	23.2	23.3	23.2	1.0	24.5
		3	1	23.2	23.3	23.2	1.0	24.5
	64QAM	3	3	23.2	23.4	23.2	1.0	24.5
		6	0	22.1	22.1	22.2	2.0	23.5
		1	0	22.3	22.3	22.1	2.0	23.5
		1	3	22.4	22.4	22.2	2.0	23.5
		1	5	22.3	22.3	22.1	2.0	23.5
		3	0	22.1	22.2	22.2	2.0	23.5
	256QAM	3	1	22.1	22.2	22.2	2.0	23.5
		3	3	22.2	22.3	22.2	2.0	23.5
		6	0	21.1	21.1	21.1	3.0	22.5
		1	0	19.2	19.3	19.2	5.0	20.5
		1	3	19.3	19.4	19.3	5.0	20.5
		1	5	19.2	19.3	19.2	5.0	20.5
		3	0	19.1	19.2	19.1	5.0	20.5
		3	1	19.2	19.2	19.1	5.0	20.5
		3	3	19.2	19.3	19.1	5.0	20.5
		6	0	19.1	19.0	19.2	5.0	20.5

LTE Band 5 (Ant A & Ant.A+B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					
				DSI = 0, 1, 2, 3					
				Measured Pwr (dBm)			MPR	Tune-up Limit	
				20450	20525	20600			
829 MHz	836.5 MHz	844 MHz							
10 MHz	QPSK	1	0		24.20		0.0	25.5	
		1	25		24.22		0.0	25.5	
		1	49		24.13		0.0	25.5	
		25	0		23.18		1.0	24.5	
		25	12		23.16		1.0	24.5	
		25	25		23.17		1.0	24.5	
	16QAM	50	0		23.15		1.0	24.5	
		1	0		23.41		1.0	24.5	
		1	25		23.53		1.0	24.5	
		1	49		23.42		1.0	24.5	
		25	0		22.19		2.0	23.5	
		25	12		22.19		2.0	23.5	
	64QAM	25	25		22.21		2.0	23.5	
		50	0		22.16		2.0	23.5	
		1	0		22.31		2.0	23.5	
		1	25		22.32		2.0	23.5	
		1	49		22.26		2.0	23.5	
		25	0		21.18		3.0	22.5	
	256QAM	25	12		21.19		3.0	22.5	
		25	25		21.20		3.0	22.5	
		50	0		21.17		3.0	22.5	
		1	0		19.28		5.0	20.5	
		1	25		19.40		5.0	20.5	
		1	49		19.22		5.0	20.5	
	5 MHz	QPSK	25	0		19.16		5.0	20.5
25			12		19.19		5.0	20.5	
25			25		19.26		5.0	20.5	
50			0		19.14		5.0	20.5	
1			0		24.28	24.30	24.16	0.0	25.5
1			12		24.29	24.32	24.18	0.0	25.5
16QAM		1	24		24.22	24.25	24.19	0.0	25.5
		12	0		23.17	23.24	23.17	1.0	24.5
		12	7		23.26	23.23	23.15	1.0	24.5
		12	13		23.20	23.27	23.20	1.0	24.5
		25	0		23.21	23.18	23.12	1.0	24.5
		1	0		23.69	23.81	23.72	1.0	24.5
64QAM		1	12		23.66	23.71	23.75	1.0	24.5
		1	24		23.62	23.70	23.71	1.0	24.5
		12	0		22.17	22.35	22.24	2.0	23.5
	12	7		22.26	22.36	22.23	2.0	23.5	
	12	13		22.21	22.41	22.26	2.0	23.5	
	25	0		22.24	22.28	22.15	2.0	23.5	
256QAM	1	0		22.44	22.42	22.37	2.0	23.5	
	1	12		22.45	22.43	22.44	2.0	23.5	
	1	24		22.34	22.29	22.38	2.0	23.5	
	12	0		21.19	21.23	21.21	3.0	22.5	
	12	7		21.27	21.28	21.21	3.0	22.5	
	12	13		21.25	21.27	21.25	3.0	22.5	
5 MHz	QPSK	25	0		21.24	21.19	21.15	3.0	22.5
		1	0		19.41	19.30	19.28	5.0	20.5
		1	12		19.46	19.36	19.35	5.0	20.5
	16QAM	1	24		19.41	19.35	19.24	5.0	20.5
		12	0		19.18	19.22	19.18	5.0	20.5
		12	7		19.30	19.23	19.18	5.0	20.5
	64QAM	12	13		19.24	19.27	19.21	5.0	20.5
		25	0		19.24	19.23	19.15	5.0	20.5
		25	0		19.24	19.23	19.15	5.0	20.5

LTE Band 5 (Ant A & Ant.A+B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20415	20525	20635		
				825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.13	24.23	24.17	0.0	25.5
		1	8	24.20	24.24	24.17	0.0	25.5
		1	14	24.15	24.17	24.10	0.0	25.5
		8	0	23.20	23.19	23.10	1.0	24.5
		8	4	23.23	23.17	23.10	1.0	24.5
		8	7	23.23	23.25	23.11	1.0	24.5
	16QAM	15	0	23.22	23.18	23.14	1.0	24.5
		1	0	23.66	23.59	23.48	1.0	24.5
		1	8	23.60	23.64	23.54	1.0	24.5
		1	14	23.61	23.57	23.48	1.0	24.5
		8	0	22.30	22.31	22.18	2.0	23.5
		8	4	22.31	22.31	22.17	2.0	23.5
	64QAM	8	7	22.33	22.39	22.19	2.0	23.5
		15	0	22.26	22.27	22.16	2.0	23.5
		1	0	22.50	22.31	22.34	2.0	23.5
		1	8	22.47	22.38	22.43	2.0	23.5
		1	14	22.41	22.35	22.32	2.0	23.5
		8	0	21.27	21.23	21.14	3.0	22.5
	256QAM	8	4	21.28	21.23	21.17	3.0	22.5
		8	7	21.25	21.31	21.16	3.0	22.5
		15	0	21.23	21.21	21.15	3.0	22.5
1		0	19.22	19.33	19.27	5.0	20.5	
1		8	19.30	19.35	19.35	5.0	20.5	
1		14	19.22	19.27	19.28	5.0	20.5	
1.4 MHz	QPSK	8	0	19.26	19.25	19.17	5.0	20.5
		8	4	19.26	19.23	19.20	5.0	20.5
		8	7	19.26	19.29	19.18	5.0	20.5
		15	0	19.21	19.19	19.15	5.0	20.5
		1	0	24.16	24.19	24.17	0.0	25.5
		1	3	24.14	24.20	24.15	0.0	25.5
	16QAM	1	5	24.15	24.24	24.14	0.0	25.5
		3	0	24.14	24.17	24.09	0.0	25.5
		3	1	24.11	24.19	24.06	0.0	25.5
		3	3	24.14	24.19	24.07	0.0	25.5
		6	0	23.15	23.10	23.09	1.0	24.5
		1	0	23.34	23.52	23.42	1.0	24.5
	64QAM	1	3	23.34	23.53	23.36	1.0	24.5
		1	5	23.36	23.53	23.37	1.0	24.5
		3	0	23.19	23.32	23.21	1.0	24.5
		3	1	23.25	23.32	23.23	1.0	24.5
		3	3	23.24	23.36	23.27	1.0	24.5
		6	0	22.25	22.18	22.24	2.0	23.5
	256QAM	1	0	22.37	22.31	22.39	2.0	23.5
		1	3	22.36	22.35	22.43	2.0	23.5
		1	5	22.36	22.32	22.38	2.0	23.5
3		0	22.17	22.25	22.18	2.0	23.5	
3		1	22.17	22.29	22.21	2.0	23.5	
3		3	22.18	22.29	22.20	2.0	23.5	
256QAM	6	0	21.19	21.07	21.18	3.0	22.5	
	1	0	19.32	19.24	19.36	5.0	20.5	
	1	3	19.36	19.32	19.27	5.0	20.5	
	1	5	19.36	19.29	19.28	5.0	20.5	
	3	0	19.24	19.18	19.19	5.0	20.5	
	3	1	19.23	19.23	19.18	5.0	20.5	
256QAM	3	3	19.22	19.22	19.18	5.0	20.5	
	6	0	19.18	19.07	19.09	5.0	20.5	

LTE Band 5 (Ant D) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						
				DSI = 0, 1, 2, 3					MPR	Tune-up Limit
				Measured Pwr (dBm)			MPR	Tune-up Limit		
				20450	20525	20600				
829 MHz	836.5 MHz	844 MHz								
10 MHz	QPSK	1	0		24.13		0.0	25.5		
		1	25		24.20		0.0	25.5		
		1	49		24.12		0.0	25.5		
		25	0		23.13		1.0	24.5		
		25	12		23.23		1.0	24.5		
		25	25		23.17		1.0	24.5		
	16QAM	50	0		23.19		1.0	24.5		
		1	0		23.44		1.0	24.5		
		1	25		23.47		1.0	24.5		
		1	49		23.36		1.0	24.5		
		25	0		22.18		2.0	23.5		
		25	12		22.25		2.0	23.5		
	64QAM	25	25		22.19		2.0	23.5		
		50	0		22.22		2.0	23.5		
		1	0		22.40		2.0	23.5		
		1	25		22.45		2.0	23.5		
		1	49		22.30		2.0	23.5		
		25	0		21.17		3.0	22.5		
	256QAM	25	12		21.25		3.0	22.5		
		25	25		21.21		3.0	22.5		
		50	0		21.21		3.0	22.5		
		1	0		19.14		5.0	20.5		
		1	25		19.22		5.0	20.5		
		1	49		19.07		5.0	20.5		
	5 MHz	QPSK	25	0		19.14		5.0	20.5	
25			12		19.22		5.0	20.5		
25			25		19.21		5.0	20.5		
50			0		19.20		5.0	20.5		
1			0		24.05	24.07	23.92	0.0	25.5	
1			12		24.05	24.04	23.88	0.0	25.5	
16QAM		1	24		24.02	24.00	23.90	0.0	25.5	
		12	0		22.99	23.00	22.90	1.0	24.5	
		12	7		23.06	23.00	22.89	1.0	24.5	
		12	13		23.02	23.07	22.93	1.0	24.5	
		25	0		23.04	22.98	22.86	1.0	24.5	
		1	0		23.26	23.19	23.06	1.0	24.5	
64QAM		1	12		23.29	23.20	23.12	1.0	24.5	
		1	24		23.21	23.15	23.09	1.0	24.5	
		12	0		21.93	21.93	21.98	2.0	23.5	
		12	7		22.02	21.92	21.99	2.0	23.5	
		12	13		22.00	21.97	22.02	2.0	23.5	
		25	0		22.03	22.00	21.87	2.0	23.5	
256QAM	1	0		22.11	22.22	22.14	2.0	23.5		
	1	12		22.17	22.19	22.14	2.0	23.5		
	1	24		22.10	22.10	22.10	2.0	23.5		
	12	0		20.99	21.00	20.92	3.0	22.5		
	12	7		21.08	21.05	20.95	3.0	22.5		
	12	13		21.04	21.05	20.97	3.0	22.5		
256QAM	25	0		21.03	20.99	20.90	3.0	22.5		
	1	0		19.19	19.08	18.98	5.0	20.5		
	1	12		19.26	19.13	19.01	5.0	20.5		
	1	24		19.20	19.08	18.94	5.0	20.5		
	12	0		18.97	18.98	18.90	5.0	20.5		
	12	7		19.08	19.01	18.90	5.0	20.5		
256QAM	12	13		19.02	19.04	18.95	5.0	20.5		
	25	0		19.04	18.96	18.87	5.0	20.5		

LTE Band 5 (Ant D) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				20415	20525	20635		
				825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.03	23.95	23.94	0.0	25.5
		1	8	23.96	24.07	23.90	0.0	25.5
		1	14	23.93	23.97	23.88	0.0	25.5
		8	0	23.00	22.96	22.86	1.0	24.5
		8	4	23.01	22.96	22.86	1.0	24.5
		8	7	22.98	23.03	22.85	1.0	24.5
	16QAM	15	0	23.01	22.96	22.85	1.0	24.5
		1	0	23.18	23.13	23.11	1.0	24.5
		1	8	23.24	23.16	23.11	1.0	24.5
		1	14	23.12	23.09	23.08	1.0	24.5
		8	0	22.07	22.00	21.88	2.0	23.5
		8	4	22.09	21.99	21.87	2.0	23.5
	64QAM	8	7	22.06	22.06	21.89	2.0	23.5
		15	0	22.03	21.99	21.90	2.0	23.5
		1	0	22.18	22.27	22.03	2.0	23.5
		1	8	22.23	22.29	22.13	2.0	23.5
		1	14	22.10	22.23	22.02	2.0	23.5
		8	0	21.09	20.95	20.88	3.0	22.5
	256QAM	8	4	21.06	20.95	20.87	3.0	22.5
		8	7	21.07	21.03	20.87	3.0	22.5
		15	0	21.01	20.97	20.87	3.0	22.5
1		0	19.08	19.00	18.98	5.0	20.5	
1		8	19.18	19.12	19.10	5.0	20.5	
1		14	19.11	19.02	18.99	5.0	20.5	
1.4 MHz	QPSK	8	0	19.05	18.98	18.87	5.0	20.5
		8	4	19.05	18.98	18.86	5.0	20.5
		8	7	19.06	19.04	18.84	5.0	20.5
		15	0	19.01	18.93	18.84	5.0	20.5
		1	0	23.98	23.95	23.91	0.0	25.5
		1	3	23.94	23.97	23.85	0.0	25.5
	16QAM	1	5	23.99	23.98	23.89	0.0	25.5
		3	0	23.94	23.87	23.84	0.0	25.5
		3	1	23.95	23.91	23.82	0.0	25.5
		3	3	23.91	23.92	23.82	0.0	25.5
		6	0	22.96	22.86	22.84	1.0	24.5
		1	0	23.08	23.09	23.03	1.0	24.5
	64QAM	1	3	23.09	23.11	23.05	1.0	24.5
		1	5	23.07	23.12	23.04	1.0	24.5
		3	0	23.02	23.01	22.88	1.0	24.5
		3	1	23.03	23.03	22.89	1.0	24.5
		3	3	22.97	23.01	22.87	1.0	24.5
		6	0	22.01	21.94	21.87	2.0	23.5
	256QAM	1	0	22.18	22.10	22.08	2.0	23.5
		1	3	22.16	22.13	22.06	2.0	23.5
		1	5	22.14	22.11	22.02	2.0	23.5
3		0	22.02	22.00	21.94	2.0	23.5	
3		1	22.04	22.01	21.98	2.0	23.5	
3		3	22.05	22.01	21.95	2.0	23.5	
QPSK	6	0	20.92	20.93	20.84	3.0	22.5	
	1	0	19.14	18.96	19.00	5.0	20.5	
	1	3	19.19	19.08	19.00	5.0	20.5	
	1	5	19.11	19.01	18.99	5.0	20.5	
	3	0	19.01	18.88	18.91	5.0	20.5	
	3	1	19.04	18.98	18.93	5.0	20.5	
16QAM	3	3	19.03	18.96	18.92	5.0	20.5	
	6	0	18.99	18.91	18.82	5.0	20.5	

LTE Band 66 (Ant B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0, 1					DSI = 2, 3				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132072 1720 MHz	132322 1745 MHz	132572 1770 MHz			132072 1720 MHz	132322 1745 MHz	132572 1770 MHz		
20 MHz	QPSK	1	0	19.11	19.04	19.00	0.0	20.0	23.68	23.67	23.78	0.0	24.5
		1	49	19.15	19.00	19.02	0.0	20.0	23.79	23.67	23.76	0.0	24.5
		1	99	19.01	18.88	18.97	0.0	20.0	23.60	23.58	23.73	0.0	24.5
		50	0	19.15	19.00	19.01	0.0	20.0	22.78	22.73	22.86	1.0	23.5
		50	24	19.19	19.04	19.08	0.0	20.0	22.89	22.70	22.84	1.0	23.5
		50	50	19.14	19.00	19.02	0.0	20.0	22.70	22.67	22.85	1.0	23.5
	100	0	19.19	19.04	19.05	0.0	20.0	22.73	22.70	22.88	1.0	23.5	
	16QAM	1	0	19.55	19.34	19.34	0.0	20.0	23.14	23.15	23.12	1.0	23.5
		1	49	19.55	19.38	19.35	0.0	20.0	23.10	23.13	23.23	1.0	23.5
		1	99	19.47	19.25	19.28	0.0	20.0	23.01	23.00	23.23	1.0	23.5
		50	0	19.18	19.03	19.04	0.0	20.0	21.75	21.74	21.83	2.0	22.5
		50	24	19.23	19.08	19.09	0.0	20.0	21.73	21.75	21.88	2.0	22.5
		50	50	19.16	19.02	19.07	0.0	20.0	21.70	21.72	21.86	2.0	22.5
	100	0	19.20	19.06	19.08	0.0	20.0	21.73	21.71	21.86	2.0	22.5	
	64QAM	1	0	19.35	19.25	19.18	0.0	20.0	21.95	21.87	21.92	2.0	22.5
		1	49	19.40	19.26	19.24	0.0	20.0	22.07	21.89	21.98	2.0	22.5
		1	99	19.28	19.16	19.20	0.0	20.0	21.98	21.81	21.95	2.0	22.5
		50	0	19.19	19.07	19.06	0.0	20.0	20.89	20.76	20.75	3.0	21.5
		50	24	19.26	19.11	19.11	0.0	20.0	20.88	20.75	20.86	3.0	21.5
		50	50	19.18	19.05	19.10	0.0	20.0	20.77	20.71	20.85	3.0	21.5
	100	0	19.21	19.08	19.10	0.0	20.0	20.86	20.72	20.84	3.0	21.5	
	256QAM	1	0	18.95	18.71	18.79	0.5	19.5	18.98	18.75	18.93	5.0	19.5
		1	49	18.93	18.73	18.87	0.5	19.5	19.01	18.74	19.07	5.0	19.5
		1	99	18.85	18.63	18.76	0.5	19.5	18.86	18.68	18.99	5.0	19.5
50		0	18.80	18.63	18.66	0.5	19.5	18.86	18.73	18.73	5.0	19.5	
50		24	18.83	18.71	18.73	0.5	19.5	18.89	18.75	18.85	5.0	19.5	
50		50	18.80	18.66	18.70	0.5	19.5	18.75	18.72	18.80	5.0	19.5	
100	0	18.83	18.70	18.71	0.5	19.5	18.85	18.72	18.82	5.0	19.5		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					Measured Pwr (dBm)				
				132047 1717.5 MHz			MPR	Tune-up Limit	132322 1745 MHz			MPR	Tune-up Limit
				132047 1717.5 MHz	132322 1745 MHz	132597 1772.5 MHz			132047 1717.5 MHz	132322 1745 MHz	132597 1772.5 MHz		
				15 MHz	QPSK	1	0	19.18	19.11	19.14	0.0	20.0	23.79
1	37	19.12	19.05			19.17	0.0	20.0	23.80	23.71	23.75	0.0	24.5
1	74	19.08	18.99			19.13	0.0	20.0	23.71	23.64	23.69	0.0	24.5
36	0	19.08	19.08			19.12	0.0	20.0	22.68	22.66	22.74	1.0	23.5
36	20	19.14	19.04			19.10	0.0	20.0	22.78	22.65	22.73	1.0	23.5
36	39	19.11	19.11			19.17	0.0	20.0	22.73	22.72	22.79	1.0	23.5
75	0	19.12	19.11		19.09	0.0	20.0	22.76	22.73	22.73	1.0	23.5	
16QAM	1	0	19.44		19.34	19.44	0.0	20.0	23.08	22.99	23.08	1.0	23.5
	1	37	19.42		19.30	19.44	0.0	20.0	23.05	22.89	23.07	1.0	23.5
	1	74	19.33		19.26	19.43	0.0	20.0	22.97	22.84	23.03	1.0	23.5
	36	0	19.10		19.08	19.12	0.0	20.0	21.74	21.72	21.79	2.0	22.5
	36	20	19.17		19.07	19.13	0.0	20.0	21.84	21.74	21.79	2.0	22.5
	36	39	19.12		19.09	19.20	0.0	20.0	21.80	21.77	21.84	2.0	22.5
75	0	19.14	19.13		19.12	0.0	20.0	21.78	21.76	21.78	2.0	22.5	
64QAM	1	0	19.36		19.29	19.33	0.0	20.0	22.00	21.96	21.96	2.0	22.5
	1	37	19.38		19.25	19.40	0.0	20.0	21.89	21.93	21.99	2.0	22.5
	1	74	19.25		19.20	19.33	0.0	20.0	21.92	21.82	21.92	2.0	22.5
	36	0	19.08		19.06	19.16	0.0	20.0	20.71	20.72	20.79	3.0	21.5
	36	20	19.16		19.07	19.18	0.0	20.0	20.81	20.71	20.80	3.0	21.5
	36	39	19.16		19.13	19.24	0.0	20.0	20.77	20.76	20.83	3.0	21.5
75	0	19.14	19.13		19.17	0.0	20.0	20.78	20.75	20.76	3.0	21.5	
256QAM	1	0	18.84		18.72	18.98	0.5	19.5	18.87	18.77	18.94	5.0	19.5
	1	37	18.93		18.77	19.01	0.5	19.5	18.92	18.82	19.02	5.0	19.5
	1	74	18.73		18.67	18.93	0.5	19.5	18.87	18.73	18.94	5.0	19.5
	36	0	18.68	18.70	18.79	0.5	19.5	18.70	18.68	18.79	5.0	19.5	
	36	20	18.78	18.69	18.78	0.5	19.5	18.78	18.66	18.77	5.0	19.5	
	36	39	18.74	18.71	18.84	0.5	19.5	18.76	18.74	18.82	5.0	19.5	
75	0	18.76	18.73	18.78	0.5	19.5	18.77	18.74	18.76	5.0	19.5		

LTE Band 66 (Ant B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	
				132022	132322	132622			132022	132322	132622			
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz			
10 MHz	QPSK	1	0	19.10	19.07	19.13	0.0	20.0	23.68	23.68	23.73	0.0	24.5	
		1	25	19.16	19.14	19.22	0.0	20.0	23.79	23.75	23.81	0.0	24.5	
		1	49	19.07	19.04	19.15	0.0	20.0	23.68	23.64	23.68	0.0	24.5	
		25	0	19.16	19.06	19.14	0.0	20.0	22.79	22.73	22.79	1.0	23.5	
		25	12	19.21	19.15	19.18	0.0	20.0	22.84	22.81	22.83	1.0	23.5	
		25	25	19.20	19.16	19.22	0.0	20.0	22.81	22.78	22.88	1.0	23.5	
	16QAM	50	0	19.16	19.10	19.15	0.0	20.0	21.78	21.80	21.78	1.0	23.5	
		1	0	19.43	19.32	19.50	0.0	20.0	22.99	22.95	23.01	1.0	23.5	
		1	25	19.48	19.35	19.54	0.0	20.0	23.13	22.92	23.09	1.0	23.5	
		1	49	19.36	19.25	19.41	0.0	20.0	22.96	22.85	23.18	1.0	23.5	
		25	0	19.17	19.09	19.15	0.0	20.0	21.87	21.77	21.83	2.0	22.5	
		25	12	19.17	19.16	19.14	0.0	20.0	21.89	21.82	21.83	2.0	22.5	
	64QAM	25	25	19.16	19.15	19.21	0.0	20.0	21.86	21.82	21.88	2.0	22.5	
		50	0	19.17	19.13	19.17	0.0	20.0	21.81	21.82	21.82	2.0	22.5	
		1	0	19.28	19.35	19.36	0.0	20.0	21.91	21.88	21.95	2.0	22.5	
		1	25	19.34	19.38	19.42	0.0	20.0	22.00	21.91	22.02	2.0	22.5	
		1	49	19.23	19.32	19.33	0.0	20.0	21.87	21.79	21.93	2.0	22.5	
		25	0	19.18	19.10	19.19	0.0	20.0	20.80	20.70	20.79	3.0	21.5	
	256QAM	25	12	19.21	19.19	19.20	0.0	20.0	20.82	20.80	20.81	3.0	21.5	
		25	25	19.18	19.14	19.26	0.0	20.0	20.82	20.76	20.89	3.0	21.5	
		50	0	19.17	19.16	19.19	0.0	20.0	20.82	20.77	20.78	3.0	21.5	
1		0	18.85	18.76	18.91	0.5	19.5	18.82	18.78	18.85	5.0	19.5		
1		25	18.95	18.92	19.06	0.5	19.5	18.92	18.98	19.00	5.0	19.5		
1		49	18.81	18.81	18.88	0.5	19.5	18.80	18.76	18.86	5.0	19.5		
5 MHz	QPSK	25	0	18.80	18.69	18.81	0.5	19.5	18.77	18.67	18.80	5.0	19.5	
		25	12	18.81	18.78	18.78	0.5	19.5	18.80	18.77	18.78	5.0	19.5	
		25	25	18.77	18.77	18.90	0.5	19.5	18.81	18.76	18.84	5.0	19.5	
		50	0	18.79	18.76	18.78	0.5	19.5	18.80	18.78	18.81	5.0	19.5	
		16QAM	1	0	19.12	19.04	19.20	0.0	20.0	23.77	23.77	23.82	0.0	24.5
			1	12	19.20	19.16	19.24	0.0	20.0	23.85	23.84	23.94	0.0	24.5
	1		24	19.10	19.09	19.16	0.0	20.0	23.74	23.76	23.78	0.0	24.5	
	12		0	19.20	19.07	19.16	0.0	20.0	22.79	22.72	22.79	1.0	23.5	
	12		7	19.23	19.19	19.21	0.0	20.0	22.85	22.82	22.83	1.0	23.5	
	12		13	19.17	19.13	19.23	0.0	20.0	22.81	22.78	22.89	1.0	23.5	
	25		0	19.20	19.15	19.14	0.0	20.0	22.81	22.76	22.76	1.0	23.5	
	64QAM		1	0	19.53	19.44	19.52	0.0	20.0	23.26	23.12	23.40	1.0	23.5
			1	12	19.63	19.54	19.60	0.0	20.0	23.36	23.14	23.36	1.0	23.5
			1	24	19.49	19.37	19.49	0.0	20.0	23.21	23.17	23.22	1.0	23.5
			12	0	19.23	19.18	19.22	0.0	20.0	21.95	21.82	21.87	2.0	22.5
			12	7	19.28	19.27	19.25	0.0	20.0	22.01	21.94	21.90	2.0	22.5
		12	13	19.25	19.25	19.27	0.0	20.0	21.95	21.87	21.94	2.0	22.5	
	256QAM	25	0	19.16	19.07	19.15	0.0	20.0	21.80	21.80	21.79	2.0	22.5	
		1	0	19.32	19.21	19.42	0.0	20.0	21.95	21.86	22.02	2.0	22.5	
		1	12	19.29	19.28	19.48	0.0	20.0	21.99	21.96	22.07	2.0	22.5	
		1	24	19.26	19.14	19.42	0.0	20.0	21.88	21.91	21.98	2.0	22.5	
12		0	19.19	19.10	19.20	0.0	20.0	20.86	20.73	20.83	3.0	21.5		
12		7	19.26	19.22	19.23	0.0	20.0	20.89	20.84	20.87	3.0	21.5		
256QAM	12	13	19.17	19.15	19.29	0.0	20.0	20.84	20.80	20.90	3.0	21.5		
	25	0	19.19	19.17	19.18	0.0	20.0	20.82	20.79	20.82	3.0	21.5		
	1	0	18.91	18.82	18.86	0.5	19.5	18.97	18.82	18.89	5.0	19.5		
	1	12	19.10	18.95	18.98	0.5	19.5	19.03	18.97	19.05	5.0	19.5		
	1	24	18.97	18.80	18.87	0.5	19.5	18.98	18.85	18.89	5.0	19.5		
	12	0	18.79	18.70	18.80	0.5	19.5	18.83	18.70	18.80	5.0	19.5		

LTE Band 66 (Ant B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657			131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	19.10	19.04	19.14	0.0	20.0	23.72	23.66	23.74	0.0	24.5
		1	8	19.21	19.19	19.29	0.0	20.0	23.88	23.80	23.90	0.0	24.5
		1	14	19.07	19.01	19.07	0.0	20.0	23.68	23.65	23.73	0.0	24.5
		8	0	19.19	19.05	19.17	0.0	20.0	22.77	22.71	22.80	1.0	23.5
		8	4	19.19	19.14	19.20	0.0	20.0	22.82	22.79	22.80	1.0	23.5
		8	7	19.21	19.16	19.21	0.0	20.0	22.83	22.79	22.81	1.0	23.5
	16QAM	15	0	19.17	19.12	19.16	0.0	20.0	22.80	22.79	22.79	1.0	23.5
		1	0	19.38	19.29	19.52	0.0	20.0	23.08	23.04	23.26	1.0	23.5
		1	8	19.56	19.48	19.67	0.0	20.0	23.20	23.10	23.35	1.0	23.5
		1	14	19.36	19.31	19.50	0.0	20.0	23.10	22.98	23.24	1.0	23.5
		8	0	19.23	19.11	19.23	0.0	20.0	21.88	21.74	21.91	2.0	22.5
		8	4	19.29	19.22	19.30	0.0	20.0	21.93	21.82	21.96	2.0	22.5
	64QAM	8	7	19.29	19.23	19.30	0.0	20.0	21.90	21.82	21.93	2.0	22.5
		15	0	19.25	19.19	19.17	0.0	20.0	21.89	21.82	21.82	2.0	22.5
		1	0	19.28	19.19	19.19	0.0	20.0	21.88	21.92	21.94	2.0	22.5
		1	8	19.44	19.39	19.43	0.0	20.0	22.07	22.11	22.13	2.0	22.5
		1	14	19.26	19.23	19.17	0.0	20.0	21.99	21.92	21.89	2.0	22.5
		8	0	19.21	19.12	19.21	0.0	20.0	20.80	20.72	20.85	3.0	21.5
	256QAM	8	4	19.23	19.24	19.26	0.0	20.0	20.89	20.83	20.85	3.0	21.5
		8	7	19.20	19.23	19.24	0.0	20.0	20.89	20.83	20.89	3.0	21.5
		15	0	19.24	19.18	19.24	0.0	20.0	20.85	20.83	20.84	3.0	21.5
1		0	18.92	18.72	18.86	0.5	19.5	18.87	18.68	18.92	5.0	19.5	
1		8	19.01	18.96	19.02	0.5	19.5	19.00	18.95	19.15	5.0	19.5	
1		14	18.86	18.79	18.92	0.5	19.5	18.90	18.78	18.99	5.0	19.5	
1.4 MHz	QPSK	8	0	18.85	18.73	18.84	0.5	19.5	18.83	18.71	18.83	5.0	19.5
		8	4	18.89	18.82	18.86	0.5	19.5	18.88	18.80	18.89	5.0	19.5
		8	7	18.84	18.80	18.85	0.5	19.5	18.84	18.82	18.84	5.0	19.5
		15	0	18.84	18.78	18.76	0.5	19.5	18.81	18.78	18.82	5.0	19.5
		1	0	19.13	19.09	19.15	0.0	20.0	23.75	23.71	23.80	0.0	24.5
		1	3	19.11	19.07	19.17	0.0	20.0	23.73	23.72	23.79	0.0	24.5
	16QAM	1	5	19.13	19.07	19.15	0.0	20.0	23.71	23.71	23.78	0.0	24.5
		3	0	19.14	19.09	19.16	0.0	20.0	23.73	23.66	23.79	0.0	24.5
		3	1	19.16	19.08	19.13	0.0	20.0	23.73	23.69	23.76	0.0	24.5
		3	3	19.15	19.08	19.13	0.0	20.0	23.70	23.68	23.79	0.0	24.5
		6	0	19.17	19.08	19.15	0.0	20.0	22.74	22.71	22.81	1.0	23.5
		1	0	19.37	19.39	19.33	0.0	20.0	23.12	22.92	23.15	1.0	23.5
	64QAM	1	3	19.33	19.37	19.30	0.0	20.0	23.10	22.81	23.16	1.0	23.5
		1	5	19.35	19.41	19.32	0.0	20.0	23.05	22.89	23.12	1.0	23.5
		3	0	19.20	19.25	19.24	0.0	20.0	22.89	22.84	22.97	1.0	23.5
		3	1	19.22	19.22	19.22	0.0	20.0	22.84	22.83	22.92	1.0	23.5
		3	3	19.24	19.15	19.23	0.0	20.0	22.89	22.80	22.97	1.0	23.5
		6	0	19.17	19.11	19.25	0.0	20.0	21.81	21.78	21.89	2.0	22.5
	256QAM	1	0	19.26	19.18	19.35	0.0	20.0	21.94	21.92	22.04	2.0	22.5
		1	3	19.35	19.20	19.39	0.0	20.0	21.96	21.94	22.08	2.0	22.5
		1	5	19.38	19.19	19.36	0.0	20.0	21.96	21.87	22.03	2.0	22.5
3		0	19.23	19.21	19.23	0.0	20.0	21.90	21.79	21.88	2.0	22.5	
3		1	19.26	19.23	19.24	0.0	20.0	21.84	21.82	21.91	2.0	22.5	
3		3	19.25	19.17	19.21	0.0	20.0	21.86	21.79	21.90	2.0	22.5	
256QAM	6	0	19.13	19.11	19.23	0.0	20.0	20.79	20.75	20.85	3.0	21.5	
	1	0	19.00	18.81	18.96	0.5	19.5	19.03	18.90	18.96	5.0	19.5	
	1	3	19.02	18.84	18.92	0.5	19.5	18.85	18.86	18.93	5.0	19.5	
	1	5	18.88	18.74	18.89	0.5	19.5	18.86	18.86	18.91	5.0	19.5	
	3	0	18.86	18.79	18.88	0.5	19.5	18.87	18.79	18.87	5.0	19.5	
	3	1	18.87	18.72	18.86	0.5	19.5	18.85	18.79	18.88	5.0	19.5	
256QAM	3	3	18.82	18.73	18.86	0.5	19.5	18.86	18.79	18.89	5.0	19.5	
	6	0	18.90	18.64	18.87	0.5	19.5	18.8	18.6	18.8	5.0	19.5	

LTE Band 66 (Ant E) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0, 1					DSI = 2, 3				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132072 1720 MHz	132322 1745 MHz	132572 1770 MHz			132072 1720 MHz	132322 1745 MHz	132572 1770 MHz		
20 MHz	QPSK	1	0	19.90	19.73	19.71	0.0	21.0	21.44	21.22	21.19	0.0	22.5
		1	49	19.87	19.69	19.71	0.0	21.0	21.41	21.24	21.22	0.0	22.5
		1	99	19.69	19.61	19.69	0.0	21.0	21.27	21.17	21.21	0.0	22.5
		50	0	19.92	19.75	19.79	0.0	21.0	21.44	21.29	21.27	0.0	22.5
		50	24	19.91	19.74	19.80	0.0	21.0	21.38	21.31	21.30	0.0	22.5
		50	50	19.82	19.62	19.74	0.0	21.0	21.35	21.24	21.27	0.0	22.5
	100	0	19.93	19.72	19.75	0.0	21.0	21.35	21.25	21.27	0.0	22.5	
	16QAM	1	0	20.34	20.10	20.02	0.0	21.0	21.79	21.56	21.51	0.0	22.5
		1	49	20.32	20.08	20.08	0.0	21.0	21.84	21.61	21.55	0.0	22.5
		1	99	20.14	19.95	20.00	0.0	21.0	21.70	21.52	21.53	0.0	22.5
		50	0	19.97	19.79	19.80	0.0	21.0	21.47	21.31	21.29	0.0	22.5
		50	24	19.96	19.79	19.83	0.0	21.0	21.42	21.32	21.33	0.0	22.5
		50	50	19.85	19.68	19.79	0.0	21.0	21.37	21.27	21.31	0.0	22.5
	100	0	19.97	19.77	19.80	0.0	21.0	21.39	21.26	21.29	0.0	22.5	
	64QAM	1	0	20.05	19.88	19.88	0.0	21.0	21.56	21.42	21.45	0.0	22.5
		1	49	20.09	19.83	19.88	0.0	21.0	21.63	21.40	21.46	0.0	22.5
		1	99	19.93	19.73	19.83	0.0	21.0	21.48	21.35	21.47	0.0	22.5
		50	0	19.92	19.73	19.77	0.0	21.0	20.74	20.51	20.49	1.0	21.5
		50	24	19.94	19.77	19.79	0.0	21.0	20.70	20.54	20.52	1.0	21.5
		50	50	19.84	19.63	19.74	0.0	21.0	20.65	20.49	20.51	1.0	21.5
	100	0	19.93	19.72	19.75	0.0	21.0	20.62	20.50	20.51	1.0	21.5	
	256QAM	1	0	18.81	18.60	18.65	1.5	19.5	18.84	18.62	18.59	3.0	19.5
		1	49	18.81	18.58	18.78	1.5	19.5	18.86	18.64	18.68	3.0	19.5
		1	99	18.59	18.42	18.61	1.5	19.5	18.71	18.55	18.69	3.0	19.5
50		0	18.68	18.47	18.50	1.5	19.5	18.75	18.53	18.50	3.0	19.5	
50		24	18.66	18.47	18.52	1.5	19.5	18.68	18.51	18.52	3.0	19.5	
50		50	18.57	18.36	18.50	1.5	19.5	18.64	18.51	18.50	3.0	19.5	
100	0	18.65	18.46	18.49	1.5	19.5	18.63	18.50	18.50	3.0	19.5		
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					Measured Pwr (dBm)				
				132047 1717.5 MHz			MPR	Tune-up Limit	132597 1772.5 MHz			MPR	Tune-up Limit
				132047 1717.5 MHz	132322 1745 MHz	132597 1772.5 MHz			132047 1717.5 MHz	132322 1745 MHz	132597 1772.5 MHz		
				15 MHz	QPSK	1	0	20.04	19.81	19.73	0.0	21.0	21.51
1	37	20.03	19.75			19.78	0.0	21.0	21.43	21.21	21.27	0.0	22.5
1	74	19.92	19.70			19.76	0.0	21.0	21.38	21.14	21.26	0.0	22.5
36	0	20.00	19.75			19.79	0.0	21.0	21.51	21.27	21.29	0.0	22.5
36	20	20.02	19.76			19.81	0.0	21.0	21.49	21.27	21.29	0.0	22.5
36	39	19.94	19.74			19.83	0.0	21.0	21.41	21.24	21.30	0.0	22.5
75	0	19.92	19.75		19.79	0.0	21.0	21.38	21.25	21.29	0.0	22.5	
16QAM	1	0	20.28		20.09	20.08	0.0	21.0	21.75	21.60	21.55	0.0	22.5
	1	37	20.26		20.02	20.10	0.0	21.0	21.69	21.55	21.61	0.0	22.5
	1	74	20.15		19.98	20.08	0.0	21.0	21.61	21.48	21.58	0.0	22.5
	36	0	20.09		19.81	19.83	0.0	21.0	21.53	21.28	21.32	0.0	22.5
	36	20	20.07		19.81	19.84	0.0	21.0	21.54	21.30	21.33	0.0	22.5
	36	39	19.97		19.79	19.84	0.0	21.0	21.42	21.30	21.33	0.0	22.5
75	0	19.96	19.77		19.82	0.0	21.0	21.43	21.27	21.32	0.0	22.5	
64QAM	1	0	20.20		19.91	20.00	0.0	21.0	21.70	21.43	21.43	0.0	22.5
	1	37	20.19		19.88	20.03	0.0	21.0	21.63	21.40	21.47	0.0	22.5
	1	74	20.09		19.79	20.00	0.0	21.0	21.56	21.34	21.45	0.0	22.5
	36	0	20.05		19.78	19.84	0.0	21.0	20.70	20.44	20.46	1.0	21.5
	36	20	20.09		19.78	19.83	0.0	21.0	20.69	20.46	20.50	1.0	21.5
	36	39	19.97		19.79	19.83	0.0	21.0	20.61	20.47	20.48	1.0	21.5
75	0	19.95	19.77		19.83	0.0	21.0	20.63	20.44	20.48	1.0	21.5	
256QAM	1	0	18.86		18.69	18.71	1.5	19.5	18.86	18.58	18.60	3.0	19.5
	1	37	18.78		18.64	18.69	1.5	19.5	18.86	18.59	18.59	3.0	19.5
	1	74	18.62		18.63	18.64	1.5	19.5	18.64	18.51	18.51	3.0	19.5
	36	0	18.73	18.51	18.53	1.5	19.5	18.69	18.44	18.48	3.0	19.5	
	36	20	18.79	18.54	18.54	1.5	19.5	18.70	18.44	18.50	3.0	19.5	
	36	39	18.67	18.50	18.54	1.5	19.5	18.62	18.44	18.48	3.0	19.5	
75	0	18.68	18.51	18.54	1.5	19.5	18.61	18.43	18.48	3.0	19.5		

LTE Band 66 (Ant E) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622			132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	19.98	19.72	19.78	0.0	21.0	21.47	21.23	21.26	0.0	22.5
		1	25	20.08	19.80	19.88	0.0	21.0	21.53	21.26	21.35	0.0	22.5
		1	49	19.96	19.70	19.73	0.0	21.0	21.41	21.16	21.25	0.0	22.5
		25	0	20.06	19.78	19.84	0.0	21.0	21.53	21.31	21.34	0.0	22.5
		25	12	20.07	19.83	19.89	0.0	21.0	21.53	21.32	21.36	0.0	22.5
		25	25	19.97	19.82	19.90	0.0	21.0	21.44	21.32	21.36	0.0	22.5
	16QAM	50	0	20.06	19.77	19.86	0.0	21.0	21.49	21.31	21.32	0.0	22.5
		1	0	20.25	20.10	20.13	0.0	21.0	21.63	21.59	21.59	0.0	22.5
		1	25	20.26	20.11	20.21	0.0	21.0	21.76	21.57	21.65	0.0	22.5
		1	49	20.21	20.05	20.14	0.0	21.0	21.57	21.54	21.51	0.0	22.5
		25	0	20.10	19.85	19.85	0.0	21.0	21.57	21.32	21.32	0.0	22.5
		25	12	20.13	19.85	19.91	0.0	21.0	21.60	21.32	21.34	0.0	22.5
	64QAM	25	25	20.03	19.84	19.89	0.0	21.0	21.50	21.32	21.34	0.0	22.5
		50	0	20.06	19.83	19.89	0.0	21.0	21.55	21.34	21.36	0.0	22.5
		1	0	20.23	19.88	19.95	0.0	21.0	21.65	21.36	21.38	0.0	22.5
		1	25	20.32	19.92	20.03	0.0	21.0	21.71	21.43	21.44	0.0	22.5
		1	49	20.17	19.85	19.91	0.0	21.0	21.67	21.33	21.41	0.0	22.5
		25	0	20.09	19.78	19.82	0.0	21.0	20.74	20.48	20.54	1.0	21.5
	256QAM	25	12	20.09	19.81	19.86	0.0	21.0	20.77	20.50	20.56	1.0	21.5
		25	25	19.99	19.79	19.86	0.0	21.0	20.68	20.48	20.54	1.0	21.5
		50	0	20.06	19.81	19.81	0.0	21.0	20.72	20.47	20.52	1.0	21.5
		1	0	18.79	18.65	18.64	1.5	19.5	18.79	18.58	18.51	3.0	19.5
		1	25	18.92	18.70	18.72	1.5	19.5	18.85	18.62	18.71	3.0	19.5
		1	49	18.77	18.60	18.62	1.5	19.5	18.70	18.57	18.61	3.0	19.5
5 MHz	QPSK	25	0	18.77	18.52	18.56	1.5	19.5	18.73	18.48	18.52	3.0	19.5
		25	12	18.80	18.57	18.58	1.5	19.5	18.75	18.50	18.56	3.0	19.5
		25	25	18.69	18.53	18.60	1.5	19.5	18.66	18.49	18.53	3.0	19.5
		50	0	18.80	18.52	18.58	1.5	19.5	18.72	18.45	18.51	3.0	19.5
		1	0	20.03	19.75	19.80	0.0	21.0	21.54	21.30	21.31	0.0	22.5
		1	12	20.10	19.88	19.90	0.0	21.0	21.58	21.38	21.40	0.0	22.5
	16QAM	1	24	19.97	19.74	19.82	0.0	21.0	21.46	21.25	21.26	0.0	22.5
		12	0	20.09	19.80	19.84	0.0	21.0	21.56	21.26	21.35	0.0	22.5
		12	7	20.03	19.82	19.91	0.0	21.0	21.54	21.32	21.39	0.0	22.5
		12	13	19.99	19.80	19.85	0.0	21.0	21.50	21.29	21.35	0.0	22.5
		25	0	19.98	19.79	19.87	0.0	21.0	21.51	21.27	21.36	0.0	22.5
		1	0	20.39	20.14	20.28	0.0	21.0	21.92	21.60	21.75	0.0	22.5
64QAM	1	12	20.49	20.22	20.38	0.0	21.0	21.92	21.65	21.83	0.0	22.5	
	1	24	20.36	20.12	20.25	0.0	21.0	21.89	21.60	21.70	0.0	22.5	
	12	0	20.11	19.78	20.00	0.0	21.0	21.60	21.33	21.42	0.0	22.5	
	12	7	20.11	19.83	20.03	0.0	21.0	21.53	21.39	21.46	0.0	22.5	
	12	13	20.06	19.77	20.03	0.0	21.0	21.51	21.32	21.41	0.0	22.5	
	25	0	20.07	19.79	19.89	0.0	21.0	21.46	21.30	21.38	0.0	22.5	
256QAM	1	0	20.13	19.98	20.04	0.0	21.0	21.64	21.40	21.43	0.0	22.5	
	1	12	20.28	20.06	20.12	0.0	21.0	21.65	21.52	21.56	0.0	22.5	
	1	24	20.09	19.90	20.03	0.0	21.0	21.53	21.39	21.41	0.0	22.5	
	12	0	20.10	19.79	19.87	0.0	21.0	20.78	20.49	20.53	1.0	21.5	
	12	7	20.06	19.85	19.87	0.0	21.0	20.73	20.55	20.57	1.0	21.5	
	12	13	20.00	19.80	19.85	0.0	21.0	20.70	20.48	20.56	1.0	21.5	
256QAM	25	0	19.98	19.77	19.82	0.0	21.0	20.68	20.48	20.53	1.0	21.5	
	1	0	18.85	18.59	18.67	1.5	19.5	18.87	18.59	18.63	3.0	19.5	
	1	12	18.94	18.67	18.76	1.5	19.5	19.03	18.68	18.68	3.0	19.5	
	1	24	18.74	18.56	18.74	1.5	19.5	18.85	18.60	18.60	3.0	19.5	
	12	0	18.79	18.50	18.57	1.5	19.5	18.77	18.46	18.55	3.0	19.5	
	12	7	18.76	18.56	18.63	1.5	19.5	18.75	18.52	18.57	3.0	19.5	
256QAM	12	13	18.69	18.51	18.60	1.5	19.5	18.68	18.47	18.56	3.0	19.5	
	25	0	18.71	18.51	18.58	1.5	19.5	18.70	18.49	18.51	3.0	19.5	

LTE Band 66 (Ant E) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit
				131987	132322	132657			131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	19.99	19.67	19.75	0.0	21.0	21.51	21.19	21.29	0.0	22.5
		1	8	20.11	19.78	19.86	0.0	21.0	21.63	21.33	21.42	0.0	22.5
		1	14	19.96	19.64	19.74	0.0	21.0	21.50	21.16	21.27	0.0	22.5
		8	0	20.07	19.78	19.83	0.0	21.0	21.59	21.30	21.35	0.0	22.5
		8	4	20.02	19.82	19.83	0.0	21.0	21.55	21.34	21.39	0.0	22.5
		8	7	20.01	19.79	19.88	0.0	21.0	21.52	21.32	21.40	0.0	22.5
	16QAM	15	0	19.99	19.77	19.84	0.0	21.0	21.52	21.29	21.37	0.0	22.5
		1	0	20.29	20.13	20.09	0.0	21.0	21.83	21.63	21.53	0.0	22.5
		1	8	20.48	20.18	20.28	0.0	21.0	21.98	21.71	21.73	0.0	22.5
		1	14	20.30	20.09	20.13	0.0	21.0	21.75	21.58	21.60	0.0	22.5
		8	0	20.15	19.84	19.93	0.0	21.0	21.71	21.39	21.45	0.0	22.5
		8	4	20.13	19.84	19.93	0.0	21.0	21.63	21.42	21.47	0.0	22.5
	64QAM	8	7	20.11	19.86	19.95	0.0	21.0	21.59	21.41	21.47	0.0	22.5
		15	0	20.04	19.86	19.87	0.0	21.0	21.56	21.36	21.43	0.0	22.5
		1	0	20.23	19.81	19.92	0.0	21.0	21.69	21.29	21.43	0.0	22.5
		1	8	20.36	19.99	20.07	0.0	21.0	21.78	21.43	21.61	0.0	22.5
		1	14	20.14	19.88	19.90	0.0	21.0	21.68	21.28	21.38	0.0	22.5
		8	0	20.13	19.80	19.86	0.0	21.0	20.87	20.51	20.56	1.0	21.5
	256QAM	8	4	20.09	19.77	19.89	0.0	21.0	20.81	20.54	20.59	1.0	21.5
		8	7	20.08	19.81	19.89	0.0	21.0	20.79	20.53	20.60	1.0	21.5
		15	0	19.99	19.80	19.83	0.0	21.0	20.71	20.52	20.57	1.0	21.5
1		0	18.77	18.59	18.65	1.5	19.5	18.83	18.55	18.60	3.0	19.5	
1		8	18.97	18.74	18.77	1.5	19.5	19.03	18.68	18.76	3.0	19.5	
1		14	18.74	18.50	18.66	1.5	19.5	18.74	18.50	18.61	3.0	19.5	
1.4 MHz	QPSK	8	0	18.82	18.50	18.57	1.5	19.5	18.83	18.49	18.54	3.0	19.5
		8	4	18.78	18.53	18.59	1.5	19.5	18.76	18.50	18.61	3.0	19.5
		8	7	18.76	18.53	18.61	1.5	19.5	18.75	18.48	18.56	3.0	19.5
		15	0	18.73	18.50	18.57	1.5	19.5	18.70	18.51	18.55	3.0	19.5
		1	0	20.00	19.66	19.80	0.0	21.0	21.46	21.27	21.31	0.0	22.5
		1	3	20.00	19.65	19.79	0.0	21.0	21.45	21.26	21.25	0.0	22.5
	16QAM	1	5	19.99	19.69	19.80	0.0	21.0	21.48	21.25	21.27	0.0	22.5
		3	0	20.00	19.69	19.78	0.0	21.0	21.48	21.25	21.30	0.0	22.5
		3	1	19.98	19.69	19.81	0.0	21.0	21.51	21.23	21.28	0.0	22.5
		3	3	19.96	19.68	19.77	0.0	21.0	21.48	21.23	21.23	0.0	22.5
		6	0	20.01	19.72	19.78	0.0	21.0	21.52	21.23	21.32	0.0	22.5
		1	0	20.27	19.93	20.18	0.0	21.0	21.90	21.51	21.47	0.0	22.5
64QAM	1	3	20.26	19.90	20.14	0.0	21.0	21.91	21.51	21.52	0.0	22.5	
	1	5	20.32	19.91	20.13	0.0	21.0	21.87	21.50	21.50	0.0	22.5	
	3	0	20.17	19.87	19.95	0.0	21.0	21.66	21.33	21.37	0.0	22.5	
	3	1	20.16	19.83	19.90	0.0	21.0	21.67	21.34	21.42	0.0	22.5	
	3	3	20.18	19.80	19.92	0.0	21.0	21.63	21.39	21.42	0.0	22.5	
	6	0	20.15	19.84	19.84	0.0	21.0	21.62	21.40	21.38	0.0	22.5	
256QAM	1	0	20.10	19.94	19.83	0.0	21.0	21.68	21.42	21.48	0.0	22.5	
	1	3	20.16	19.95	19.87	0.0	21.0	21.66	21.44	21.50	0.0	22.5	
	1	5	20.09	19.94	19.83	0.0	21.0	21.58	21.40	21.56	0.0	22.5	
	3	0	20.05	19.73	19.85	0.0	21.0	21.31	21.27	21.34	1.0	21.5	
	3	1	20.04	19.74	19.84	0.0	21.0	21.22	21.31	21.35	1.0	21.5	
	3	3	20.07	19.78	19.84	0.0	21.0	21.35	21.32	21.34	1.0	21.5	
256QAM	6	0	20.07	19.65	19.83	0.0	21.0	20.74	20.45	20.56	1.0	21.5	
	1	0	18.84	18.54	18.64	1.5	19.5	18.86	18.56	18.63	3.0	19.5	
	1	3	18.79	18.56	18.67	1.5	19.5	18.94	18.61	18.61	3.0	19.5	
	1	5	18.85	18.53	18.58	1.5	19.5	18.86	18.55	18.59	3.0	19.5	
	3	0	18.76	18.50	18.53	1.5	19.5	18.79	18.52	18.51	3.0	19.5	
	3	1	18.72	18.49	18.53	1.5	19.5	18.81	18.48	18.51	3.0	19.5	
1.4 MHz	256QAM	3	3	18.79	18.51	18.55	1.5	19.5	18.85	18.47	18.52	3.0	19.5
		6	0	18.81	18.43	18.59	1.5	19.5	18.86	18.37	18.67	3.0	19.5

LTE Band 25 (Ant B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0					DSI = 1					DSI = 2, 3				
				Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit
				26140	26365	26590			26140	26365	26590			26140	26365	26590		
1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz	1860 MHz	1882.5 MHz	1905 MHz										
20 MHz	QPSK	1	0	17.93	17.82	17.92	0.0	19.0	18.84	18.75	18.77	0.0	20.0	24.34	24.24	24.26	0.0	25.0
		1	49	17.80	17.81	17.90	0.0	19.0	18.78	18.81	18.83	0.0	20.0	24.31	24.24	24.26	0.0	25.0
		1	99	17.75	17.81	17.91	0.0	19.0	18.73	18.76	18.79	0.0	20.0	24.22	24.24	24.18	0.0	25.0
		50	0	17.79	17.83	17.92	0.0	19.0	18.81	18.79	18.83	0.0	20.0	23.32	23.29	23.27	1.0	24.0
		50	24	17.95	17.91	17.94	0.0	19.0	18.91	18.84	18.84	0.0	20.0	23.39	23.29	23.25	1.0	24.0
		50	50	17.86	17.88	17.93	0.0	19.0	18.82	18.83	18.89	0.0	20.0	23.38	23.33	23.27	1.0	24.0
	100	0	17.92	17.89	17.83	0.0	19.0	18.82	18.79	18.83	0.0	20.0	23.36	23.27	23.24	1.0	24.0	
	16QAM	1	0	18.09	18.18	18.20	0.0	19.0	19.24	19.14	19.10	0.0	20.0	23.82	23.67	23.51	1.0	24.0
		1	49	18.10	18.25	18.25	0.0	19.0	19.12	19.15	19.15	0.0	20.0	23.75	23.69	23.51	1.0	24.0
		1	99	18.07	18.27	18.27	0.0	19.0	19.09	19.08	19.11	0.0	20.0	23.72	23.66	23.42	1.0	24.0
		50	0	17.81	17.84	17.91	0.0	19.0	18.78	18.81	18.86	0.0	20.0	22.39	22.34	22.29	2.0	23.0
		50	24	17.88	17.93	17.94	0.0	19.0	18.84	18.91	18.90	0.0	20.0	22.46	22.33	22.27	2.0	23.0
		50	50	17.88	17.93	18.06	0.0	19.0	18.80	18.86	18.92	0.0	20.0	22.41	22.39	22.31	2.0	23.0
	100	0	17.88	17.87	17.93	0.0	19.0	18.83	18.84	18.87	0.0	20.0	22.42	22.30	22.24	2.0	23.0	
	64QAM	1	0	18.01	18.09	18.09	0.0	19.0	18.97	18.94	19.03	0.0	20.0	22.55	22.44	22.37	2.0	23.0
		1	49	17.97	18.17	18.19	0.0	19.0	18.95	18.95	19.07	0.0	20.0	22.62	22.52	22.41	2.0	23.0
		1	99	17.98	18.17	18.18	0.0	19.0	18.89	18.91	19.09	0.0	20.0	22.58	22.47	22.34	2.0	23.0
		50	0	17.82	17.82	17.95	0.0	19.0	18.80	18.78	18.84	0.0	20.0	21.38	21.30	21.25	3.0	22.0
		50	24	17.87	17.87	17.98	0.0	19.0	18.89	18.86	18.88	0.0	20.0	21.47	21.30	21.22	3.0	22.0
		50	50	17.84	17.89	18.05	0.0	19.0	18.81	18.83	18.91	0.0	20.0	21.39	21.34	21.27	3.0	22.0
	100	0	17.83	17.86	17.95	0.0	19.0	18.84	18.82	18.84	0.0	20.0	21.39	21.27	21.19	3.0	22.0	
	256QAM	1	0	17.96	17.86	17.85	0.0	19.0	18.95	18.87	18.85	0.0	20.0	19.47	19.29	19.33	5.0	20.0
		1	49	18.05	18.08	17.92	0.0	19.0	19.06	19.02	18.94	0.0	20.0	19.55	19.37	19.43	5.0	20.0
		1	99	17.94	17.91	17.91	0.0	19.0	18.90	18.92	18.92	0.0	20.0	19.42	19.20	19.29	5.0	20.0
50		0	17.78	17.82	17.92	0.0	19.0	18.80	18.78	18.84	0.0	20.0	19.37	19.24	19.22	5.0	20.0	
50		24	17.90	17.89	17.94	0.0	19.0	18.86	18.85	18.87	0.0	20.0	19.43	19.27	19.24	5.0	20.0	
50		50	17.84	17.86	17.99	0.0	19.0	18.80	18.80	18.90	0.0	20.0	19.34	19.31	19.24	5.0	20.0	
100	0	17.84	17.86	17.95	0.0	19.0	18.81	18.81	18.85	0.0	20.0	19.39	19.26	19.19	5.0	20.0		
15 MHz	QPSK	1	0	17.81	17.78	17.88	0.0	19.0	19.00	18.89	18.92	0.0	20.0	24.16	24.04	24.13	0.0	25.0
		1	37	17.82	17.84	17.91	0.0	19.0	18.97	18.90	18.96	0.0	20.0	24.10	24.03	24.17	0.0	25.0
		1	74	17.71	17.82	17.89	0.0	19.0	18.85	18.84	18.93	0.0	20.0	24.03	23.99	24.13	0.0	25.0
		36	0	17.85	17.82	17.90	0.0	19.0	19.04	18.91	18.93	0.0	20.0	23.17	23.07	23.08	1.0	24.0
		36	20	17.82	17.79	17.88	0.0	19.0	19.02	18.90	18.94	0.0	20.0	23.14	23.05	23.08	1.0	24.0
		36	39	17.81	17.89	17.95	0.0	19.0	18.99	18.95	18.98	0.0	20.0	23.13	23.11	23.13	1.0	24.0
	16QAM	75	0	17.83	17.86	17.98	0.0	19.0	19.01	18.95	18.92	0.0	20.0	23.12	23.11	23.08	1.0	24.0
		1	0	18.11	18.11	18.16	0.0	19.0	19.35	19.24	19.27	0.0	20.0	23.36	23.34	23.41	1.0	24.0
		1	37	18.05	18.13	18.21	0.0	19.0	19.28	19.25	19.30	0.0	20.0	23.31	23.30	23.42	1.0	24.0
		1	74	17.99	18.11	18.21	0.0	19.0	19.15	19.20	19.27	0.0	20.0	23.22	23.44	23.35	1.0	24.0
		36	0	17.88	17.84	17.93	0.0	19.0	19.09	18.95	18.99	0.0	20.0	22.22	22.13	22.14	2.0	23.0
		36	20	17.88	17.86	17.93	0.0	19.0	19.04	18.97	18.99	0.0	20.0	22.21	22.10	22.15	2.0	23.0
	64QAM	36	39	17.86	17.92	17.99	0.0	19.0	19.04	19.01	19.05	0.0	20.0	22.18	22.16	22.22	2.0	23.0
		75	0	17.87	17.89	17.99	0.0	19.0	19.05	19.02	18.96	0.0	20.0	22.19	22.15	22.12	2.0	23.0
		1	0	18.11	17.96	18.08	0.0	19.0	19.27	19.16	19.14	0.0	20.0	22.48	22.24	22.32	2.0	23.0
		1	37	18.12	18.04	18.12	0.0	19.0	19.17	19.20	19.18	0.0	20.0	22.36	22.31	22.31	2.0	23.0
		1	74	18.01	18.04	18.10	0.0	19.0	19.03	19.13	19.11	0.0	20.0	22.23	22.24	22.29	2.0	23.0
		36	0	17.84	17.80	17.93	0.0	19.0	19.05	18.94	18.95	0.0	20.0	21.21	21.11	21.11	3.0	22.0
	256QAM	36	20	17.84	17.81	17.92	0.0	19.0	19.05	18.94	18.97	0.0	20.0	21.20	21.09	21.11	3.0	22.0
		36	39	17.82	17.90	18.00	0.0	19.0	19.02	19.01	19.04	0.0	20.0	21.18	21.16	21.18	3.0	22.0
		75	0	17.83	17.86	18.01	0.0	19.0	19.05	19.01	18.98	0.0	20.0	21.18	21.16	21.12	3.0	22.0
		1	0	17.88	17.92	18.06	0.0	19.0	19.09	19.06	19.14	0.0	20.0	19.25	19.21	19.19	5.0	20.0
		1	37	17.89	18.01	18.09	0.0	19.0	19.10	19.11	19.20	0.0	20.0	19.28	19.26	19.21	5.0	20.0
		1	74	17.81	17.96	18.01	0.0	19.0	19.05	18.99	19.10	0.0	20.0	19.17	19.19	19.17	5.0	20.0

LTE Band 25 (Ant B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26090	26365	26640			26090	26365	26640			26090	26365	26640		
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	17.88	17.79	17.92	0.0	19.0	19.03	18.96	18.97	0.0	20.0	24.14	24.00	24.16	0.0	25.0
		1	25	17.89	17.86	17.96	0.0	19.0	19.05	19.00	19.03	0.0	20.0	24.07	24.08	24.16	0.0	25.0
		1	49	17.77	17.78	17.95	0.0	19.0	18.91	18.91	18.92	0.0	20.0	24.03	23.97	24.06	0.0	25.0
		25	0	17.86	17.79	17.89	0.0	19.0	19.07	18.91	18.92	0.0	20.0	23.21	23.08	23.12	1.0	24.0
		25	12	17.88	17.88	17.92	0.0	19.0	19.07	18.93	19.02	0.0	20.0	23.23	23.09	23.20	1.0	24.0
		25	25	17.86	17.88	17.98	0.0	19.0	19.03	19.00	19.02	0.0	20.0	23.18	23.15	23.20	1.0	24.0
	50	0	17.86	17.90	17.91	0.0	19.0	19.04	18.98	18.98	0.0	20.0	22.19	22.13	22.18	1.0	24.0	
	16QAM	1	0	18.09	18.13	18.28	0.0	19.0	19.28	19.26	19.33	0.0	20.0	23.34	23.29	23.34	1.0	24.0
		1	25	18.16	18.20	18.30	0.0	19.0	19.35	19.30	19.32	0.0	20.0	23.28	23.39	23.37	1.0	24.0
		1	49	18.01	18.09	18.25	0.0	19.0	19.23	19.22	19.28	0.0	20.0	23.18	23.24	23.34	1.0	24.0
		25	0	17.93	17.85	17.93	0.0	19.0	19.05	18.95	18.90	0.0	20.0	22.26	22.11	22.12	2.0	23.0
		25	12	17.91	17.93	17.95	0.0	19.0	19.06	18.97	19.02	0.0	20.0	22.24	22.11	22.21	2.0	23.0
		25	25	17.87	17.93	17.97	0.0	19.0	19.01	19.00	19.01	0.0	20.0	22.21	22.21	22.22	2.0	23.0
	64QAM	50	0	17.88	17.89	17.91	0.0	19.0	19.08	19.03	19.03	0.0	20.0	22.24	22.19	22.23	2.0	23.0
		1	0	18.18	17.93	18.04	0.0	19.0	19.28	19.13	19.18	0.0	20.0	22.47	22.24	22.24	2.0	23.0
		1	25	18.16	18.02	18.12	0.0	19.0	19.31	19.16	19.23	0.0	20.0	22.47	22.23	22.37	2.0	23.0
		1	49	18.06	18.04	18.07	0.0	19.0	19.18	19.07	19.19	0.0	20.0	22.26	22.17	22.31	2.0	23.0
		25	0	17.86	17.84	17.91	0.0	19.0	19.05	18.95	18.96	0.0	20.0	21.22	21.12	21.14	3.0	22.0
		25	12	17.90	17.95	17.96	0.0	19.0	19.08	18.97	19.05	0.0	20.0	21.24	21.12	21.22	3.0	22.0
	256QAM	25	25	17.84	17.94	18.01	0.0	19.0	19.06	18.99	19.06	0.0	20.0	21.21	21.18	21.21	3.0	22.0
		50	0	17.89	17.92	17.93	0.0	19.0	19.04	19.02	19.04	0.0	20.0	21.21	21.15	21.19	3.0	22.0
		1	0	17.98	17.90	18.04	0.0	19.0	19.16	19.07	19.10	0.0	20.0	19.38	19.21	19.13	5.0	20.0
		1	25	18.02	17.99	18.06	0.0	19.0	19.18	19.17	19.22	0.0	20.0	19.39	19.30	19.26	5.0	20.0
		1	49	17.88	17.93	17.94	0.0	19.0	19.07	19.10	19.12	0.0	20.0	19.29	19.18	19.12	5.0	20.0
		25	0	17.87	17.82	17.90	0.0	19.0	19.09	18.96	18.99	0.0	20.0	19.20	19.08	19.11	5.0	20.0
5 MHz	QPSK	25	12	17.91	17.90	17.90	0.0	19.0	19.11	18.98	19.08	0.0	20.0	19.22	19.12	19.20	5.0	20.0
		25	25	17.87	17.91	17.99	0.0	19.0	19.06	19.04	19.05	0.0	20.0	19.17	19.13	19.19	5.0	20.0
		50	0	17.90	17.88	17.90	0.0	19.0	19.09	19.04	19.06	0.0	20.0	19.20	19.15	19.17	5.0	20.0
		1	0	17.88	17.88	17.91	0.0	19.0	19.14	18.98	18.95	0.0	20.0	24.28	24.21	24.14	0.0	25.0
		1	12	17.83	17.86	17.93	0.0	19.0	19.00	18.99	19.05	0.0	20.0	24.21	24.12	24.15	0.0	25.0
		1	24	17.78	17.83	17.92	0.0	19.0	19.05	18.94	18.95	0.0	20.0	24.18	24.11	24.14	0.0	25.0
	16QAM	12	0	17.86	17.80	17.94	0.0	19.0	19.13	18.91	18.93	0.0	20.0	23.25	23.08	23.12	1.0	24.0
		12	7	17.89	17.87	18.00	0.0	19.0	19.08	18.96	18.96	0.0	20.0	23.22	23.16	23.12	1.0	24.0
		12	13	17.83	17.84	17.98	0.0	19.0	19.07	18.94	18.99	0.0	20.0	23.21	23.12	23.16	1.0	24.0
		25	0	17.88	17.87	18.01	0.0	19.0	19.09	18.96	18.94	0.0	20.0	23.24	23.17	23.08	1.0	24.0
		1	0	18.33	18.19	18.26	0.0	19.0	19.54	19.33	19.36	0.0	20.0	23.73	23.72	23.71	1.0	24.0
		1	12	18.19	18.17	18.40	0.0	19.0	19.45	19.32	19.44	0.0	20.0	23.68	23.72	23.74	1.0	24.0
	64QAM	1	24	18.19	18.18	18.40	0.0	19.0	19.40	19.28	19.39	0.0	20.0	23.63	23.64	23.68	1.0	24.0
		12	0	17.91	17.95	17.93	0.0	19.0	19.13	19.02	18.96	0.0	20.0	22.34	22.13	22.27	2.0	23.0
		12	7	17.90	18.00	18.02	0.0	19.0	19.10	19.09	18.96	0.0	20.0	22.31	22.20	22.27	2.0	23.0
		12	13	17.87	17.97	17.99	0.0	19.0	19.05	19.03	19.00	0.0	20.0	22.27	22.16	22.32	2.0	23.0
		25	0	17.90	17.93	17.96	0.0	19.0	19.06	19.01	19.02	0.0	20.0	22.22	22.17	22.15	2.0	23.0
		1	0	18.13	18.09	18.26	0.0	19.0	19.22	19.22	19.20	0.0	20.0	22.42	22.35	22.30	2.0	23.0
	256QAM	1	12	18.06	18.09	18.33	0.0	19.0	19.16	19.17	19.25	0.0	20.0	22.43	22.33	22.33	2.0	23.0
		1	24	18.08	18.01	18.30	0.0	19.0	19.13	19.14	19.20	0.0	20.0	22.43	22.33	22.31	2.0	23.0
		12	0	17.97	17.83	17.96	0.0	19.0	19.14	19.00	19.00	0.0	20.0	21.28	21.13	21.15	3.0	22.0
		12	7	17.96	17.90	18.06	0.0	19.0	19.11	19.09	19.00	0.0	20.0	21.28	21.21	21.15	3.0	22.0
		12	13	17.96	17.87	18.01	0.0	19.0	19.10	18.98	19.03	0.0	20.0	21.22	21.15	21.19	3.0	22.0
		25	0	17.87	17.93	18.02	0.0	19.0	19.10	19.04	18.96	0.0	20.0	21.24	21.19	21.11	3.0	22.0
	256QAM	1	0	18.03	17.90	18.17	0.0	19.0	19.25	19.09	19.20	0.0	20.0	19.41	19.18	19.29	5.0	20.0
1		12	17.94	17.93	18.18	0.0	19.0	19.21	19.15	19.18	0.0	20.0	19.34	19.28	19.22	5.0	20.0	
1		24	17.93	17.89	18.08	0.0	19.0	19.11	19.07	19.20	0.0	20.0	19.26	19.21	19.31	5.0	20.0	
12		0	17.90	17.84	17.95	0.0	19.0	19.11	18.98	19.02	0.0	20.0	19.26	19.10	19.14	5.0	20.0	
12		7	17.91	17.89	18.02	0.0	19.0	19.11	19.07	19.02	0.0	20.0	19.25	19.19	19.15	5.0	20.0	
12		13	17.88	17.88	17.98	0.0	19.0	19.10	18.99	19.06	0.0	20.0	19.20	19.12	19.16	5.0	20.0	
25	0	17.91	17.83	18.00	0.0	19.0	19.10	19.04	18.97	0.0	20.0	19.24	19.13	19.12	5.0	20.0		

LTE Band 25 (Ant B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26055	26365	26675			26055	26365	26675			26055	26365	26675		
				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		
3 MHz	QPSK	1	0	17.8	17.7	17.9	0.0	19.0	19.0	18.9	19.0	0.0	20.0	24.1	24.1	24.1	0.0	25.0
		1	8	17.9	17.9	18.0	0.0	19.0	19.1	19.0	19.1	0.0	20.0	24.2	24.1	24.2	0.0	25.0
		1	14	17.8	17.8	17.9	0.0	19.0	19.0	18.9	18.9	0.0	20.0	24.0	24.0	24.1	0.0	25.0
		8	0	17.9	17.8	17.9	0.0	19.0	19.1	18.9	19.0	0.0	20.0	23.2	23.0	23.1	1.0	24.0
		8	4	17.9	17.8	18.0	0.0	19.0	19.1	19.0	18.9	0.0	20.0	23.2	23.1	23.1	1.0	24.0
		8	7	17.9	17.9	18.0	0.0	19.0	19.1	19.0	18.9	0.0	20.0	23.2	23.1	23.1	1.0	24.0
	16QAM	15	0	17.9	17.8	18.0	0.0	19.0	19.1	19.0	18.9	0.0	20.0	23.2	23.1	23.1	1.0	24.0
		1	0	18.2	18.0	18.3	0.0	19.0	19.3	19.3	19.3	0.0	20.0	23.6	23.6	23.6	1.0	24.0
		1	8	18.2	18.1	18.3	0.0	19.0	19.4	19.4	19.4	0.0	20.0	23.7	23.6	23.6	1.0	24.0
		1	14	18.1	18.1	18.2	0.0	19.0	19.2	19.2	19.2	0.0	20.0	23.5	23.6	23.5	1.0	24.0
		8	0	17.9	17.8	18.0	0.0	19.0	19.2	19.0	19.0	0.0	20.0	22.3	22.1	22.2	2.0	23.0
		8	4	17.9	18.0	18.0	0.0	19.0	19.2	19.1	19.1	0.0	20.0	22.3	22.2	22.2	2.0	23.0
	64QAM	8	7	17.9	17.9	18.0	0.0	19.0	19.2	19.1	19.1	0.0	20.0	22.3	22.2	22.2	2.0	23.0
		15	0	17.9	17.9	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	22.3	22.2	22.2	2.0	23.0
		1	0	18.1	18.0	17.9	0.0	19.0	19.2	19.0	19.1	0.0	20.0	22.5	22.3	22.3	2.0	23.0
1		8	18.1	18.1	18.2	0.0	19.0	19.2	19.2	19.3	0.0	20.0	22.5	22.4	22.4	2.0	23.0	
1		14	18.0	17.9	18.0	0.0	19.0	19.2	19.0	19.1	0.0	20.0	22.4	22.2	22.3	2.0	23.0	
8		0	17.8	17.8	18.0	0.0	19.0	19.1	18.9	19.0	0.0	20.0	21.2	21.1	21.1	3.0	22.0	
256QAM	8	4	17.9	18.0	18.1	0.0	19.0	19.1	19.0	19.0	0.0	20.0	21.3	21.2	21.1	3.0	22.0	
	8	7	17.9	18.0	18.1	0.0	19.0	19.1	19.0	19.0	0.0	20.0	21.3	21.2	21.1	3.0	22.0	
	15	0	17.8	17.9	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	21.2	21.1	21.1	3.0	22.0	
	1	0	17.9	17.9	17.9	0.0	19.0	19.1	19.0	19.1	0.0	20.0	19.3	19.1	19.2	5.0	20.0	
	1	8	18.1	18.0	18.1	0.0	19.0	19.2	19.1	19.2	0.0	20.0	19.4	19.3	19.4	5.0	20.0	
	1	14	17.8	17.9	17.9	0.0	19.0	19.1	19.0	19.1	0.0	20.0	19.3	19.1	19.3	5.0	20.0	
1.4 MHz	QPSK	8	0	17.9	17.8	17.9	0.0	19.0	19.1	18.9	19.0	0.0	20.0	19.2	19.1	19.1	5.0	20.0
		8	4	17.9	17.9	18.0	0.0	19.0	19.1	19.1	19.0	0.0	20.0	19.2	19.2	19.1	5.0	20.0
		8	7	17.9	17.9	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	19.2	19.1	19.1	5.0	20.0
		15	0	17.9	17.8	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	19.2	19.1	19.1	5.0	20.0
		1	0	17.9	17.8	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	19.2	19.1	19.1	5.0	20.0
		1	3	17.9	17.8	17.9	0.0	19.0	19.0	18.9	19.0	0.0	20.0	24.2	24.0	24.1	0.0	25.0
	16QAM	1	5	17.9	17.8	17.9	0.0	19.0	19.0	18.9	19.0	0.0	20.0	24.2	24.1	24.1	0.0	25.0
		3	0	17.9	17.8	17.9	0.0	19.0	19.0	19.0	19.0	0.0	20.0	24.1	24.1	24.1	0.0	25.0
		3	1	17.9	17.8	18.0	0.0	19.0	19.0	18.9	19.0	0.0	20.0	24.1	24.1	24.1	0.0	25.0
		3	3	17.8	17.8	18.0	0.0	19.0	19.0	18.9	19.0	0.0	20.0	24.1	24.0	24.1	0.0	25.0
		6	0	17.9	17.8	18.0	0.0	19.0	19.0	19.0	19.0	0.0	20.0	23.2	23.1	23.2	1.0	24.0
		1	0	18.1	18.0	18.3	0.0	19.0	19.3	19.3	19.2	0.0	20.0	23.4	23.3	23.5	1.0	24.0
	64QAM	1	3	18.1	18.0	18.2	0.0	19.0	19.2	19.3	19.2	0.0	20.0	23.4	23.3	23.5	1.0	24.0
		1	5	18.1	18.0	18.3	0.0	19.0	19.2	19.2	19.3	0.0	20.0	23.4	23.3	23.5	1.0	24.0
		3	0	18.0	17.9	18.1	0.0	19.0	19.2	19.1	19.1	0.0	20.0	23.3	23.2	23.3	1.0	24.0
3		1	18.0	17.9	18.1	0.0	19.0	19.2	19.0	19.1	0.0	20.0	23.3	23.2	23.2	1.0	24.0	
3		3	18.0	17.9	18.0	0.0	19.0	19.1	19.1	19.1	0.0	20.0	23.3	23.2	23.3	1.0	24.0	
6		0	18.0	17.9	18.0	0.0	19.0	19.2	19.0	19.1	0.0	20.0	22.3	22.2	22.2	2.0	23.0	
256QAM	1	0	18.2	18.0	18.2	0.0	19.0	19.2	19.2	19.1	0.0	20.0	22.4	22.3	22.2	2.0	23.0	
	1	3	18.2	18.0	18.3	0.0	19.0	19.3	19.2	19.1	0.0	20.0	22.4	22.3	22.3	2.0	23.0	
	1	5	18.2	18.0	18.2	0.0	19.0	19.2	19.1	19.1	0.0	20.0	22.4	22.2	22.2	2.0	23.0	
	3	0	18.0	17.9	18.1	0.0	19.0	19.1	19.1	19.1	0.0	20.0	22.3	22.2	22.3	2.0	23.0	
	3	1	18.0	18.0	18.1	0.0	19.0	19.1	19.1	19.1	0.0	20.0	22.3	22.2	22.3	2.0	23.0	
	3	3	18.0	18.0	18.1	0.0	19.0	19.1	19.1	19.1	0.0	20.0	22.2	22.2	22.2	2.0	23.0	
256QAM	6	0	17.9	17.9	17.9	0.0	19.0	19.2	19.0	19.0	0.0	20.0	21.2	21.2	21.1	3.0	22.0	
	1	0	18.0	18.0	18.1	0.0	19.0	19.2	19.1	19.2	0.0	20.0	19.3	19.2	19.3	5.0	20.0	
	1	3	18.0	18.0	18.1	0.0	19.0	19.3	19.1	19.2	0.0	20.0	19.4	19.2	19.3	5.0	20.0	
	1	5	18.0	18.0	18.1	0.0	19.0	19.2	19.1	19.1	0.0	20.0	19.2	19.2	19.3	5.0	20.0	
	3	0	17.9	17.9	18.0	0.0	19.0	19.1	19.1	19.1	0.0	20.0	19.2	19.2	19.2	5.0	20.0	
	3	3	17.9	17.9	18.0	0.0	19.0	19.0	19.1	19.1	0.0	20.0	19.3	19.2	19.2	5.0	20.0	
256QAM	6	0	17.8	17.8	18.0	0.0	19.0	19.1	19.0	19.0	0.0	20.0	19.3	19.1	19.0	5.0	20.0	

LTE Band 25 (Ant E) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)								
				DSI = 0, 1					DSI = 2, 3								
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit				
				26140 1860 MHz	26365 1882.5 MHz	26590 1905 MHz			26140 1860 MHz	26365 1882.5 MHz	26590 1905 MHz						
20 MHz	QPSK	1	0	19.56	19.59	19.61	0.0	21.0	22.22	22.24	22.26	0.0	23.5				
		1	49	19.57	19.63	19.59	0.0	21.0	22.27	22.32	22.26	0.0	23.5				
		1	99	19.61	19.62	19.54	0.0	21.0	22.27	22.31	22.24	0.0	23.5				
		50	0	19.67	19.61	19.60	0.0	21.0	22.36	22.29	22.29	0.0	23.5				
		50	24	19.70	19.71	19.69	0.0	21.0	22.38	22.39	22.36	0.0	23.5				
		50	50	19.68	19.69	19.62	0.0	21.0	22.34	22.35	22.31	0.0	23.5				
	100	0	19.68	19.61	19.58	0.0	21.0	22.28	22.35	22.34	0.0	23.5					
	16QAM	1	0	19.98	19.94	19.92	0.0	21.0	22.66	22.64	22.55	0.0	23.5				
		1	49	20.03	19.97	19.88	0.0	21.0	22.73	22.68	22.58	0.0	23.5				
		1	99	20.01	19.94	19.87	0.0	21.0	22.69	22.66	22.52	0.0	23.5				
		50	0	19.72	19.61	19.61	0.0	21.0	22.12	22.08	22.04	0.5	23.0				
		50	24	19.71	19.65	19.69	0.0	21.0	22.13	22.09	22.13	0.5	23.0				
		50	50	19.70	19.69	19.63	0.0	21.0	22.08	22.13	22.07	0.5	23.0				
	100	0	19.69	19.59	19.58	0.0	21.0	22.10	22.03	22.09	0.5	23.0					
	64QAM	1	0	19.76	19.73	19.85	0.0	21.0	22.10	22.18	22.14	0.5	23.0				
		1	49	19.78	19.84	19.75	0.0	21.0	22.18	22.22	22.18	0.5	23.0				
		1	99	19.78	19.86	19.67	0.0	21.0	22.13	22.23	22.17	0.5	23.0				
		50	0	19.69	19.61	19.60	0.0	21.0	21.07	21.00	20.97	1.5	22.0				
		50	24	19.71	19.64	19.67	0.0	21.0	21.10	21.01	21.05	1.5	22.0				
		50	50	19.68	19.69	19.63	0.0	21.0	21.06	21.07	20.98	1.5	22.0				
	100	0	19.67	19.63	19.58	0.0	21.0	21.04	20.99	21.04	1.5	22.0					
	256QAM	1	0	18.96	18.95	18.82	1.0	20.0	19.15	19.15	18.95	3.5	20.0				
		1	49	19.11	19.06	18.92	1.0	20.0	19.23	19.31	19.01	3.5	20.0				
		1	99	19.01	18.96	18.74	1.0	20.0	19.17	19.14	18.90	3.5	20.0				
50		0	18.93	18.86	18.82	1.0	20.0	19.08	18.97	18.97	3.5	20.0					
50		24	18.95	18.86	18.89	1.0	20.0	19.08	19.00	19.05	3.5	20.0					
50		50	18.89	18.88	18.84	1.0	20.0	19.05	19.04	19.00	3.5	20.0					
100	0	18.89	18.81	18.80	1.0	20.0	19.06	18.97	19.02	3.5	20.0						
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit				
				26115 1857.5 MHz	26365 1882.5 MHz	26615 1907.5 MHz			26115 1857.5 MHz	26365 1882.5 MHz	26615 1907.5 MHz						
				15 MHz	QPSK	1	0	19.83	19.79	19.79	0.0	21.0	22.24	22.19	22.20	0.0	23.5
						1	37	19.83	19.89	19.78	0.0	21.0	22.24	22.25	22.25	0.0	23.5
1	74	19.73	19.82			19.74	0.0	21.0	22.16	22.22	22.21	0.0	23.5				
36	0	19.76	19.82			19.77	0.0	21.0	22.19	22.24	22.20	0.0	23.5				
36	20	19.83	19.81			19.77	0.0	21.0	22.27	22.24	22.19	0.0	23.5				
36	39	19.84	19.88			19.80	0.0	21.0	22.28	22.31	22.24	0.0	23.5				
75	0	19.83	19.79		19.74	0.0	21.0	22.26	22.21	22.17	0.0	23.5					
16QAM	1	0	19.90		19.94	19.87	0.0	21.0	22.50	22.50	22.54	0.0	23.5				
	1	37	19.89		19.97	19.85	0.0	21.0	22.49	22.56	22.54	0.0	23.5				
	1	74	19.83		19.95	19.82	0.0	21.0	22.42	22.57	22.48	0.0	23.5				
	36	0	19.76		19.81	19.77	0.0	21.0	21.98	21.98	21.97	0.5	23.0				
	36	20	19.85		19.82	19.76	0.0	21.0	22.07	22.00	21.97	0.5	23.0				
	36	39	19.84		19.91	19.83	0.0	21.0	22.04	22.05	22.01	0.5	23.0				
75	0	19.83	19.81		19.77	0.0	21.0	22.06	21.96	21.96	0.5	23.0					
64QAM	1	0	19.99		19.94	19.99	0.0	21.0	22.04	22.00	22.09	0.5	23.0				
	1	37	19.95		20.03	19.97	0.0	21.0	22.08	22.15	22.12	0.5	23.0				
	1	74	19.93		19.95	19.92	0.0	21.0	22.03	22.12	22.06	0.5	23.0				
	36	0	19.81		19.82	19.76	0.0	21.0	20.88	20.93	20.92	1.5	22.0				
	36	20	19.78		19.82	19.82	0.0	21.0	20.98	20.94	20.92	1.5	22.0				
	36	39	19.83		19.90	19.82	0.0	21.0	20.96	21.01	20.96	1.5	22.0				
75	0	19.76	19.81		19.83	0.0	21.0	20.96	20.92	20.91	1.5	22.0					
256QAM	1	0	19.19		19.16	19.13	1.0	20.0	18.84	19.06	18.97	3.5	20.0				
	1	37	19.18		19.28	19.20	1.0	20.0	18.97	19.11	18.99	3.5	20.0				
	1	74	19.08		19.19	19.10	1.0	20.0	18.85	19.06	18.90	3.5	20.0				
	36	0	19.03	19.07	18.97	1.0	20.0	18.87	18.91	18.91	3.5	20.0					
	36	20	19.01	19.04	19.07	1.0	20.0	18.96	18.92	18.90	3.5	20.0					
	36	39	19.06	19.11	19.05	1.0	20.0	18.95	19.00	18.94	3.5	20.0					
75	0	19.00	19.04	19.06	1.0	20.0	18.94	18.90	18.89	3.5	20.0						

LTE Band 25 (Ant E) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26090	26365	26640			26090	26365	26640		
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	19.82	19.77	19.75	0.0	21.0	22.25	22.20	22.16	0.0	23.5
		1	25	19.87	19.87	19.82	0.0	21.0	22.26	22.29	22.24	0.0	23.5
		1	49	19.76	19.77	19.72	0.0	21.0	22.19	22.20	22.18	0.0	23.5
		25	0	19.85	19.81	19.73	0.0	21.0	22.27	22.21	22.19	0.0	23.5
		25	12	19.85	19.82	19.72	0.0	21.0	22.32	22.23	22.20	0.0	23.5
		25	25	19.85	19.91	19.78	0.0	21.0	22.32	22.30	22.26	0.0	23.5
	16QAM	50	0	19.85	19.79	19.73	0.0	21.0	22.01	21.92	21.90	0.0	23.5
		1	0	19.95	19.99	19.93	0.0	21.0	22.61	22.43	22.54	0.0	23.5
		1	25	19.96	20.00	19.92	0.0	21.0	22.59	22.53	22.58	0.0	23.5
		1	49	19.87	19.94	19.87	0.0	21.0	22.48	22.44	22.46	0.0	23.5
		25	0	19.83	19.79	19.75	0.0	21.0	22.05	21.96	21.94	0.5	23.0
		25	12	19.85	19.83	19.74	0.0	21.0	22.06	22.03	21.96	0.5	23.0
	64QAM	25	25	19.85	19.88	19.80	0.0	21.0	22.02	22.05	22.03	0.5	23.0
		50	0	19.86	19.77	19.70	0.0	21.0	22.06	21.97	21.95	0.5	23.0
		1	0	19.93	19.90	20.04	0.0	21.0	22.21	21.99	22.05	0.5	23.0
		1	25	19.99	20.00	20.10	0.0	21.0	22.08	22.15	22.21	0.5	23.0
		1	49	19.92	19.95	19.98	0.0	21.0	21.95	22.06	22.13	0.5	23.0
		25	0	19.76	19.78	19.85	0.0	21.0	20.96	20.91	20.93	1.5	22.0
	256QAM	25	12	19.76	19.85	19.90	0.0	21.0	20.95	20.95	20.91	1.5	22.0
		25	25	19.79	19.89	19.84	0.0	21.0	20.96	20.99	20.95	1.5	22.0
		50	0	19.76	19.80	19.85	0.0	21.0	20.97	20.93	20.92	1.5	22.0
		1	0	19.12	19.13	19.25	1.0	20.0	19.06	19.02	18.92	3.5	20.0
		1	25	19.24	19.25	19.22	1.0	20.0	19.13	19.08	19.06	3.5	20.0
		1	49	19.06	19.17	19.14	1.0	20.0	18.98	19.05	19.06	3.5	20.0
	5 MHz	QPSK	25	0	18.96	19.02	19.10	1.0	20.0	18.94	18.90	18.89	3.5
25			12	18.99	19.05	19.08	1.0	20.0	18.95	18.95	18.91	3.5	20.0
25			25	19.03	19.11	19.07	1.0	20.0	18.93	18.98	18.94	3.5	20.0
50			0	18.96	19.04	19.07	1.0	20.0	18.96	18.90	18.87	3.5	20.0
1			0	19.86	19.88	19.74	0.0	21.0	22.29	22.30	22.22	0.0	23.5
1			12	19.82	19.83	19.78	0.0	21.0	22.27	22.28	22.24	0.0	23.5
16QAM		1	24	19.81	19.83	19.73	0.0	21.0	22.25	22.25	22.18	0.0	23.5
		12	0	19.88	19.79	19.73	0.0	21.0	22.33	22.25	22.22	0.0	23.5
		12	7	19.88	19.89	19.75	0.0	21.0	22.29	22.29	22.21	0.0	23.5
		12	13	19.82	19.87	19.70	0.0	21.0	22.24	22.27	22.18	0.0	23.5
		25	0	19.85	19.80	19.73	0.0	21.0	22.29	22.21	22.18	0.0	23.5
		1	0	20.10	20.05	19.93	0.0	21.0	22.78	22.73	22.70	0.0	23.5
64QAM		1	12	20.05	19.99	19.93	0.0	21.0	22.68	22.67	22.72	0.0	23.5
		1	24	20.02	19.98	19.88	0.0	21.0	22.62	22.65	22.83	0.0	23.5
		12	0	19.88	19.87	19.75	0.0	21.0	21.92	22.05	22.01	0.5	23.0
		12	7	19.84	19.95	19.72	0.0	21.0	21.91	22.16	21.99	0.5	23.0
		12	13	19.82	19.94	19.72	0.0	21.0	21.86	22.09	21.94	0.5	23.0
		25	0	19.87	19.81	19.70	0.0	21.0	22.06	21.99	21.95	0.5	23.0
256QAM		1	0	19.93	20.00	20.05	0.0	21.0	22.13	22.17	21.92	0.5	23.0
		1	12	19.96	19.96	20.01	0.0	21.0	22.00	22.16	21.97	0.5	23.0
		1	24	19.91	19.92	19.93	0.0	21.0	22.04	22.17	21.96	0.5	23.0
		12	0	19.77	19.85	19.89	0.0	21.0	20.98	20.93	20.93	1.5	22.0
		12	7	19.76	19.93	19.87	0.0	21.0	20.99	21.02	20.90	1.5	22.0
		12	13	19.74	19.85	19.85	0.0	21.0	20.95	21.00	20.89	1.5	22.0
256QAM		25	0	19.77	19.82	19.85	0.0	21.0	20.99	20.92	20.91	1.5	22.0
	1	0	19.14	19.16	19.18	1.0	20.0	19.10	19.13	19.14	3.5	20.0	
	1	12	19.20	19.20	19.14	1.0	20.0	19.13	19.03	19.07	3.5	20.0	
	1	24	19.18	19.15	19.11	1.0	20.0	19.06	19.09	19.12	3.5	20.0	
	12	0	19.02	19.06	19.11	1.0	20.0	18.98	18.93	18.90	3.5	20.0	
	12	7	19.01	19.11	19.10	1.0	20.0	19.00	19.03	18.91	3.5	20.0	
256QAM	12	13	18.93	19.07	19.07	1.0	20.0	18.95	19.00	18.85	3.5	20.0	
	25	0	18.96	19.00	19.05	1.0	20.0	18.96	18.93	18.88	3.5	20.0	

LTE Band 25 (Ant E) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26055	26365	26675			26055	26365	26675		
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	19.8	19.7	19.7	0.0	21.0	22.2	22.2	22.1	0.0	23.5
		1	8	19.9	19.8	19.8	0.0	21.0	22.3	22.3	22.2	0.0	23.5
		1	14	19.8	19.7	19.6	0.0	21.0	22.2	22.2	22.1	0.0	23.5
		8	0	19.8	19.8	19.7	0.0	21.0	22.3	22.2	22.1	0.0	23.5
		8	4	19.8	19.8	19.8	0.0	21.0	22.3	22.3	22.3	0.0	23.5
		8	7	19.8	19.8	19.8	0.0	21.0	22.3	22.2	22.2	0.0	23.5
	16QAM	15	0	19.8	19.8	19.7	0.0	21.0	22.3	22.2	22.1	0.0	23.5
		1	0	19.9	19.9	19.8	0.0	21.0	22.6	22.5	22.7	0.0	23.5
		1	8	19.9	20.0	19.9	0.0	21.0	22.7	22.8	22.6	0.0	23.5
		1	14	19.8	19.9	19.8	0.0	21.0	22.5	22.5	22.5	0.0	23.5
		8	0	19.8	19.7	19.7	0.0	21.0	22.1	22.0	21.9	0.5	23.0
		8	4	19.9	19.8	19.8	0.0	21.0	22.1	22.1	22.1	0.5	23.0
	64QAM	8	7	19.9	19.8	19.8	0.0	21.0	22.1	22.1	22.1	0.5	23.0
		15	0	19.8	19.8	19.7	0.0	21.0	22.1	22.0	21.9	0.5	23.0
		1	0	19.9	19.9	20.0	0.0	21.0	22.2	22.0	22.0	0.5	23.0
		1	8	20.1	20.0	20.1	0.0	21.0	22.2	22.1	22.1	0.5	23.0
		1	14	20.0	19.9	19.9	0.0	21.0	22.1	22.0	22.0	0.5	23.0
		8	0	19.7	19.8	19.8	0.0	21.0	21.0	20.9	20.9	1.5	22.0
	256QAM	8	4	19.8	19.9	19.9	0.0	21.0	21.0	21.0	21.0	1.5	22.0
		8	7	19.8	19.8	19.8	0.0	21.0	21.0	21.0	20.9	1.5	22.0
		15	0	19.7	19.8	19.8	0.0	21.0	20.9	20.9	20.9	1.5	22.0
		1	0	19.0	19.0	19.2	1.0	20.0	19.0	19.0	18.9	3.5	20.0
		1	8	19.2	19.2	19.2	1.0	20.0	19.0	19.1	19.1	3.5	20.0
		1	14	19.1	19.1	19.1	1.0	20.0	18.9	19.0	19.0	3.5	20.0
1.4 MHz	QPSK	8	0	19.0	19.0	19.0	1.0	20.0	19.0	18.9	18.9	3.5	20.0
		8	4	19.0	19.1	19.1	1.0	20.0	19.0	19.0	19.0	3.5	20.0
		8	7	19.1	19.1	19.1	1.0	20.0	19.0	19.0	18.9	3.5	20.0
		15	0	18.9	19.0	19.1	1.0	20.0	18.9	18.9	18.8	3.5	20.0
		1	0	19.7	19.8	19.7	0.0	21.0	22.1	22.1	22.1	0.0	23.5
		1	3	19.7	19.8	19.7	0.0	21.0	22.1	22.2	22.2	0.0	23.5
	16QAM	1	5	19.8	19.8	19.7	0.0	21.0	22.1	22.2	22.1	0.0	23.5
		3	0	19.8	19.8	19.7	0.0	21.0	22.1	22.2	22.2	0.0	23.5
		3	1	19.8	19.8	19.7	0.0	21.0	22.2	22.2	22.1	0.0	23.5
		3	3	19.8	19.8	19.7	0.0	21.0	22.2	22.2	22.2	0.0	23.5
		6	0	19.8	19.8	19.7	0.0	21.0	22.2	22.2	22.2	0.0	23.5
		1	0	19.9	19.9	19.8	0.0	21.0	22.3	22.6	22.4	0.0	23.5
	64QAM	1	3	19.9	20.0	19.8	0.0	21.0	22.4	22.6	22.4	0.0	23.5
		1	5	19.9	19.9	19.8	0.0	21.0	22.4	22.6	22.4	0.0	23.5
		3	0	19.9	19.8	19.8	0.0	21.0	22.3	22.4	22.3	0.5	23.0
		3	1	19.9	19.8	19.7	0.0	21.0	22.3	22.4	22.3	0.5	23.0
		3	3	19.8	19.8	19.7	0.0	21.0	22.3	22.4	22.3	0.5	23.0
		6	0	19.8	19.9	19.8	0.0	21.0	22.0	22.0	22.0	0.5	23.0
	256QAM	1	0	19.9	20.0	20.0	0.0	21.0	21.9	22.0	22.1	0.5	23.0
		1	3	19.9	20.1	20.0	0.0	21.0	22.1	21.9	22.1	0.5	23.0
		1	5	19.9	20.0	20.0	0.0	21.0	22.1	21.9	22.1	0.5	23.0
		3	0	19.8	19.9	19.9	0.0	21.0	21.9	22.0	22.0	1.5	22.0
		3	1	19.8	19.9	19.9	0.0	21.0	21.9	22.0	22.0	1.5	22.0
		3	3	19.8	19.9	19.9	0.0	21.0	21.9	22.0	21.9	1.5	22.0
256QAM	6	0	19.7	19.9	19.8	0.0	21.0	20.9	20.9	20.9	1.5	22.0	
	1	0	19.1	19.2	19.2	1.0	20.0	19.0	19.0	19.0	3.5	20.0	
	1	3	19.1	19.3	19.2	1.0	20.0	19.0	19.1	19.0	3.5	20.0	
	1	5	19.1	19.2	19.2	1.0	20.0	19.0	19.0	19.0	3.5	20.0	
	3	0	19.1	19.1	19.1	1.0	20.0	18.9	18.9	19.0	3.5	20.0	
	3	1	19.1	19.1	19.1	1.0	20.0	18.9	18.9	18.9	3.5	20.0	
256QAM	3	3	19.0	19.0	19.1	1.0	20.0	19.0	19.0	19.0	3.5	20.0	
	6	0	18.9	19.1	19.0	1.0	20.0	18.9	19.1	18.8	3.5	20.0	

LTE Band 41 (Power Class 3) (Ant B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)							Maximum Allowed Average Power (dBm)							Maximum Allowed Average Power (dBm)						
				DSI = 0							DSI = 1							DSI = 2, 3						
				Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz										
20 MHz	QPSK	1	0	19.15	18.76	18.64	18.84	18.64	0.0	19.5	20.68	20.25	20.07	20.37	20.19	0.0	21.0	24.48	24.39	24.20	24.36	24.11	0.0	25.0
		1	49	19.09	18.72	18.78	18.95	18.75	0.0	19.5	20.65	20.19	20.18	20.44	20.30	0.0	21.0	24.46	24.35	24.33	24.42	24.31	0.0	25.0
		1	99	19.04	18.62	18.73	18.80	18.69	0.0	19.5	20.55	20.06	20.13	20.33	20.22	0.0	21.0	24.39	24.27	24.26	24.29	24.27	0.0	25.0
		50	0	19.13	18.75	18.71	18.87	18.66	0.0	19.5	20.67	20.22	20.14	20.37	20.25	0.0	21.0	23.49	23.38	23.24	23.42	23.22	1.0	24.0
		50	24	19.06	18.75	18.85	18.89	18.78	0.0	19.5	20.58	20.21	20.25	20.39	20.36	0.0	21.0	23.45	23.38	23.37	23.43	23.37	1.0	24.0
	16QAM	50	50	19.00	18.61	18.82	18.93	18.76	0.0	19.5	20.57	20.09	20.23	20.43	20.32	0.0	21.0	23.48	23.34	23.33	23.45	23.36	1.0	24.0
		100	0	19.02	18.73	18.79	18.86	18.66	0.0	19.5	20.53	20.19	20.21	20.35	20.24	0.0	21.0	23.49	23.33	23.34	23.39	23.25	1.0	24.0
		1	0	19.17	18.91	18.72	18.87	18.77	0.0	19.5	20.83	20.33	20.19	20.48	20.24	0.0	21.0	23.58	23.66	23.31	23.41	23.16	1.0	24.0
		1	49	19.16	18.83	18.83	18.96	18.92	0.0	19.5	20.80	20.26	20.35	20.59	20.35	0.0	21.0	23.49	23.55	23.32	23.46	23.39	1.0	24.0
		1	99	19.12	18.78	18.81	18.88	18.79	0.0	19.5	20.67	20.11	20.26	20.45	20.28	0.0	21.0	23.38	23.77	23.41	23.41	23.34	1.0	24.0
	64QAM	50	0	19.12	18.75	18.71	18.85	18.68	0.0	19.5	20.67	20.24	20.15	20.37	20.20	0.0	21.0	22.46	22.42	22.24	22.42	22.28	2.0	23.0
		50	24	19.06	18.76	18.82	18.87	18.78	0.0	19.5	20.59	20.23	20.28	20.38	20.34	0.0	21.0	22.52	22.37	22.41	22.47	22.39	2.0	23.0
		50	50	19.01	18.64	18.80	18.91	18.76	0.0	19.5	20.54	20.09	20.27	20.42	20.31	0.0	21.0	22.46	22.31	22.35	22.47	22.39	2.0	23.0
		100	0	19.02	18.72	18.80	18.84	18.66	0.0	19.5	20.57	20.20	20.25	20.35	20.23	0.0	21.0	22.47	22.34	22.33	22.37	22.28	2.0	23.0
		1	0	19.08	18.87	18.70	18.79	18.70	0.0	19.5	20.71	20.20	20.15	20.28	20.14	0.0	21.0	22.41	22.33	22.26	22.31	22.17	2.0	23.0
	256QAM	1	49	19.06	18.80	18.82	18.97	18.83	0.0	19.5	20.68	20.19	20.23	20.35	20.27	0.0	21.0	22.45	22.34	22.24	22.30	22.40	2.0	23.0
		1	99	19.00	18.72	18.77	18.76	18.79	0.0	19.5	20.60	20.04	20.16	20.27	20.16	0.0	21.0	22.38	22.32	22.29	22.32	22.34	2.0	23.0
		50	0	19.10	18.76	18.72	18.88	18.70	0.0	19.5	20.66	20.23	20.13	20.34	20.18	0.0	21.0	21.39	21.32	21.27	21.30	21.43	3.0	22.0
		50	24	19.06	18.78	18.88	18.90	18.82	0.0	19.5	20.57	20.25	20.26	20.36	20.31	0.0	21.0	21.50	21.43	21.31	21.45	21.38	3.0	22.0
		50	50	19.02	18.66	18.86	18.94	18.80	0.0	19.5	20.51	20.10	20.24	20.37	20.28	0.0	21.0	21.42	21.39	21.35	21.41	21.35	3.0	22.0
15 MHz	QPSK	100	0	19.03	18.75	18.83	18.87	18.72	0.0	19.5	20.55	20.21	20.25	20.32	20.20	0.0	21.0	21.46	21.40	21.34	21.39	21.36	3.0	22.0
		1	0	19.15	18.61	18.62	18.91	18.64	0.0	19.5	19.32	18.93	18.93	19.06	18.94	1.0	20.0	19.46	19.31	19.13	19.27	19.08	5.0	20.0
		1	49	19.14	18.68	18.83	19.03	18.82	0.0	19.5	19.42	18.94	19.11	19.21	19.08	1.0	20.0	19.61	19.40	19.18	19.49	19.34	5.0	20.0
		1	99	19.02	18.40	18.84	18.89	18.76	0.0	19.5	19.22	18.70	19.03	19.11	18.99	1.0	20.0	19.41	19.24	19.39	19.37	19.32	5.0	20.0
		50	0	19.11	18.75	18.73	18.88	18.71	0.0	19.5	19.43	19.01	18.94	19.15	18.98	1.0	20.0	19.37	19.37	19.26	19.35	19.22	5.0	20.0
	16QAM	50	24	19.05	18.77	18.88	18.91	18.83	0.0	19.5	19.38	19.01	19.06	19.15	19.09	1.0	20.0	19.49	19.33	19.35	19.40	19.33	5.0	20.0
		50	50	19.03	18.66	18.86	18.94	18.81	0.0	19.5	19.33	18.88	19.04	19.17	19.08	1.0	20.0	19.45	19.27	19.32	19.42	19.32	5.0	20.0
		100	0	19.03	18.74	18.82	18.89	18.71	0.0	19.5	19.34	18.98	19.02	19.11	18.98	1.0	20.0	19.43	19.32	19.28	19.37	19.25	5.0	20.0
		1	0	18.71	18.31	18.35	18.51	18.32	0.0	19.5	20.56	20.24	20.25	20.38	20.19	0.0	21.0	24.45	24.30	24.30	24.38	24.15	0.0	25.0
		1	37	18.72	18.37	18.51	18.61	18.43	0.0	19.5	20.58	20.32	20.36	20.48	20.28	0.0	21.0	24.47	24.31	24.37	24.46	24.33	0.0	25.0
15 MHz	QPSK	1	74	18.64	18.25	18.46	18.52	18.42	0.0	19.5	20.48	20.15	20.36	20.37	20.24	0.0	21.0	24.41	24.16	24.34	24.44	24.25	0.0	25.0
		36	0	18.70	18.36	18.35	18.52	18.36	0.0	19.5	20.55	20.27	20.26	20.38	20.19	0.0	21.0	23.37	23.32	23.29	23.38	23.18	1.0	24.0
		36	20	18.64	18.36	18.50	18.53	18.47	0.0	19.5	20.48	20.27	20.37	20.47	20.23	0.0	21.0	23.42	23.30	23.39	23.39	23.30	1.0	24.0
		36	39	18.64	18.26	18.46	18.59	18.45	0.0	19.5	20.43	20.17	20.35	20.43	20.29	0.0	21.0	23.42	23.29	23.35	23.43	23.30	1.0	24.0
		75	0	18.62	18.32	18.45	18.51	18.35	0.0	19.5	20.44	20.25	20.36	20.35	20.18	0.0	21.0	23.40	23.29	23.34	23.34	23.17	1.0	24.0
	16QAM	1	0	18.70	18.17	18.33	18.54	18.21	0.0	19.5	20.51	20.17	20.28	20.46	20.16	0.0	21.0	23.44	23.31	23.29	23.41	23.22	1.0	24.0
		1	37	18.73	18.25	18.46	18.64	18.34	0.0	19.5	20.54	20.27	20.38	20.49	20.25	0.0	21.0	23.39	23.25	23.28	23.37	23.26	1.0	24.0
		1	74	18.68	18.19	18.43	18.53	18.30	0.0	19.5	20.47	20.06	20.38	20.45	20.14	0.0	21.0	23.43	23.16	23.29	23.33	23.23	1.0	24.0
		36	0	18.74	18.38	18.39	18.55	18.35	0.0	19.5	20.58	20.29	20.29	20.41	20.20	0.0	21.0	22.42	22.30	22.31	22.40	22.20	2.0	23.0
		36	20	18.68	18.40	18.52	18.57	18.48	0.0	19.5	20.51	20.28	20.41	20.50	20.25	0.0	21.0	22.47	22.36	22.42	22.42	22.35	2.0	23.0
64QAM	36	39	18.65	18.28	18.50	18.62	18.47	0.0	19.5	20.48	20.18	20.37	20.46	20.31	0.0	21.0	22.45	22.29	22.41	22.47	22.34	2.0	23.0	
	75	0	18.63	18.37	18.48	18.53	18.37	0.0	19.5	20.46	20.29	20.38	20.38	20.22	0.0	21.0	22.44	22.28	22.40	22.38	22.20	2.0	23.0	
	1	0	18.69	18.39	18.47	18.50	18.25	0.0	19.5	20.53	20.17	20.33	20.40	20.14	0.0	21.0	22.43	22.36	22.29	22.34	22.12	2.0	23.0	
	1	37	18.74	18.45	18.50	18.63	18.41	0.0	19.5	20.58	20.23	20.43	20.45	20.22	0.0	21.0	22.48	22.53	22.49	22.56	22.39	2.0	23.0	
	36	0	18.78	18.42	18.38	18.53	18.38	0.0	19.5	20.56	20.30	20.29	20.42	20.23	0.0	21.0	21.43	21.39	21.37	21.48	21.28	3.0	22.0	
256QAM	36	20	18.69	18.43	18.52	18.55	18.50	0.0	19.5	20.50	20.30	20.41	20.49	20.25	0.0	21.0	21.51	21.38	21.47	21.46	21.41	3.0	22.0	
	36	39	18.68	18.32	18.50	18.61	18.48	0.0	19.5	20.47	20.20	20.40	20.47	20.32	0.0	21.0	21.47	21.31	21.47	21.49	21.34	3.0	22.0	
	75	0	18.67	18.43	18.51	18.53	18.41	0.0	19.5	20.47	20.28	20.38	20.40	20.23	0.0	21.0	21.48	21.32	21.45	21.43	21.27	3.0	22.0	
	1	0	18.70	18.42	18.27	18.48	18.29	0.0	19.5	19.29	19.07	18.88	19.11	18.90	1.0	20.0	19.31	19.37	19.13	19.24	19.20	5.0	20.0	
	1	37	18.68	18.47	18.45	18.66	18.46	0.0	19.5	19.37	19.15	19.08	19.30	19.09	1.0	20.0	19.35	19.44	19.36	19.45	19.27	5.0	20.0	
15 MHz	256QAM	1	74	18.54	18.28	18.38	18.55	18.37	0.0	19.5	19.29	19.00	19.02	19.26	19.07	1.0	20.0	19.40	19.24	19.29	19.31	19.26	5.0	20.0
		36	0	18.7																				

LTE Band 41 (Power Class 3) (Ant B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490			39750	40185	40620	41055	41490			
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			
10 MHz	QPSK	1	0	18.63	18.31	18.32	18.53	18.34	0.0	19.5	20.56	20.27	20.29	20.37	20.18	0.0	21.0	24.46	24.15	24.30	24.29	24.23	0.0	25.0	
		1	25	18.70	18.34	18.44	18.58	18.38	0.0	19.5	20.55	20.26	20.36	20.48	20.23	0.0	21.0	24.44	24.21	24.35	24.37	24.34	0.0	25.0	
		1	49	18.65	18.24	18.41	18.48	18.32	0.0	19.5	20.44	20.15	20.32	20.34	20.15	0.0	21.0	24.50	24.27	24.27	24.35	24.21	0.0	25.0	
		25	0	18.69	18.40	18.42	18.56	18.38	0.0	19.5	20.57	20.26	20.27	20.37	20.19	0.0	21.0	23.39	23.33	23.32	23.46	23.30	1.0	24.0	
		25	12	18.66	18.41	18.54	18.56	18.47	0.0	19.5	20.51	20.31	20.41	20.46	20.27	0.0	21.0	23.48	23.33	23.41	23.47	23.36	1.0	24.0	
	16QAM	50	0	18.63	18.40	18.49	18.53	18.42	0.0	19.5	20.48	20.25	20.36	20.37	20.17	0.0	21.0	23.48	23.37	23.42	23.39	23.33	1.0	24.0	
		1	0	18.77	18.25	18.38	18.63	18.22	0.0	19.5	20.65	20.19	20.33	20.49	20.05	0.0	21.0	23.55	23.55	23.31	23.41	23.19	1.0	24.0	
		1	25	18.82	18.32	18.48	18.67	18.33	0.0	19.5	20.70	20.19	20.44	20.50	20.14	0.0	21.0	23.53	23.30	23.43	23.43	23.39	1.0	24.0	
		1	49	18.70	18.16	18.45	18.63	18.21	0.0	19.5	20.58	20.14	20.32	20.47	20.11	0.0	21.0	23.43	23.34	23.34	23.23	23.30	1.0	24.0	
		25	0	18.68	18.38	18.40	18.54	18.43	0.0	19.5	20.57	20.29	20.28	20.37	20.18	0.0	21.0	22.41	22.32	22.34	22.35	22.31	2.0	23.0	
	64QAM	25	12	18.64	18.40	18.51	18.57	18.45	0.0	19.5	20.51	20.31	20.37	20.46	20.32	0.0	21.0	22.48	22.36	22.44	22.39	22.37	2.0	23.0	
		25	25	18.61	18.33	18.52	18.64	18.43	0.0	19.5	20.51	20.20	20.40	20.45	20.32	0.0	21.0	22.41	22.32	22.41	22.47	22.34	2.0	23.0	
		50	0	18.60	18.41	18.47	18.55	18.41	0.0	19.5	20.47	20.28	20.37	20.39	20.20	0.0	21.0	22.48	22.35	22.39	22.39	22.34	2.0	23.0	
		1	0	18.71	18.34	18.44	18.54	18.28	0.0	19.5	20.57	20.20	20.24	20.41	20.19	0.0	21.0	22.55	22.44	22.40	22.46	22.35	2.0	23.0	
		1	25	18.75	18.39	18.57	18.61	18.38	0.0	19.5	20.50	20.27	20.39	20.40	20.26	0.0	21.0	22.37	22.41	22.38	22.54	22.24	2.0	23.0	
	256QAM	QPSK	1	49	18.72	18.26	18.51	18.50	18.27	0.0	19.5	20.49	20.12	20.30	20.33	20.26	0.0	21.0	22.49	22.38	22.41	22.44	22.18	2.0	23.0
			25	0	18.73	18.44	18.45	18.56	18.40	0.0	19.5	20.59	20.31	20.31	20.39	20.22	0.0	21.0	21.45	21.38	22.40	21.44	21.38	3.0	22.0
			25	12	18.68	18.43	18.56	18.59	18.45	0.0	19.5	20.48	20.33	20.41	20.53	20.32	0.0	21.0	21.53	21.41	21.43	21.46	21.44	3.0	22.0
			25	25	18.67	18.35	18.56	18.65	18.43	0.0	19.5	20.46	20.26	20.41	20.49	20.32	0.0	21.0	21.51	21.40	21.51	21.53	21.38	3.0	22.0
			50	0	18.68	18.42	18.54	18.55	18.43	0.0	19.5	20.49	20.30	20.40	20.41	20.24	0.0	21.0	21.53	21.37	21.46	21.47	21.34	3.0	22.0
16QAM		1	0	18.58	18.40	18.29	18.42	18.35	0.0	19.5	19.38	19.06	18.98	19.12	19.00	1.0	20.0	19.38	18.98	19.30	19.26	19.18	5.0	20.0	
		1	25	18.68	18.48	18.46	18.60	18.40	0.0	19.5	19.30	19.17	19.12	19.27	19.08	1.0	20.0	19.45	19.10	19.42	19.41	19.35	5.0	20.0	
		1	49	18.51	18.30	18.47	18.48	18.35	0.0	19.5	19.16	18.98	19.07	19.09	19.09	1.0	20.0	19.36	19.10	19.26	19.35	19.22	5.0	20.0	
		25	0	18.72	18.42	18.45	18.55	18.41	0.0	19.5	19.35	19.15	19.08	19.25	19.04	1.0	20.0	19.37	19.37	19.28	19.41	19.26	5.0	20.0	
		25	12	18.66	18.45	18.56	18.58	18.44	0.0	19.5	19.33	19.12	19.17	19.32	19.12	1.0	20.0	19.44	19.35	19.42	19.38	19.33	5.0	20.0	
64QAM		25	25	18.66	18.37	18.56	18.64	18.42	0.0	19.5	19.31	19.04	19.19	19.31	19.12	1.0	20.0	19.41	19.33	19.39	19.41	19.27	5.0	20.0	
		50	0	18.65	18.43	18.51	18.56	18.45	0.0	19.5	19.29	19.09	19.17	19.23	19.03	1.0	20.0	19.48	19.33	19.36	19.36	19.27	5.0	20.0	

LTE Band 41 (Power Class 2) (Ant B) Measured Results

DSI	Modulation	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	Output Power (dBm)	
						Tune-up Limit	Meas. Power
DSI = 3	QPSK	20	39750	2506.0	1/0	26.50	25.94
DSI = 1	QPSK	20	41055	2636.5	50/0	22.60	22.02
DSI = 0	QPSK	20	41490	2680.0	50/0	21.10	22.02
DSI = 0	QPSK	20	41055	2636.5	50/0	21.10	20.24

Notes:

Conducted Power measurement for LTE Band 41 Power Class 2 were performed with the highest SAR test configuration in Power Class 3 for each RF Exposure condition.

LTE Band 41 (Power Class 3) (Ant E) Measured Results

Table with columns: BW (MHz), Mode, RB Allocation, RB offset, Maximum Allowed Average Power (dBm) [DSI = 0, 1, DSI = 2, 3], Measured Pwr (dBm), MPR, Tune-up Limit. Rows include 20 MHz and 15 MHz bandwidths for QPSK, 16QAM, 64QAM, and 256QAM modes.

LTE Band 41 (Power Class 3) (Ant E) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490			
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			
10 MHz	QPSK	1	0	20.90	20.82	20.83	20.75	20.69	0.0	22.0	24.56	24.29	24.32	24.27	24.18	0.0	25.5	
		1	25	20.99	20.88	20.96	20.84	20.75	0.0	22.0	24.63	24.30	24.35	24.34	24.25	0.0	25.5	
		1	49	20.99	20.73	20.84	20.73	20.65	0.0	22.0	24.55	24.15	24.30	24.27	23.61	0.0	25.5	
		25	0	21.03	20.88	20.84	20.77	20.70	0.0	22.0	23.68	23.38	23.33	23.32	23.15	1.0	24.5	
		25	12	21.06	20.88	20.96	20.88	20.76	0.0	22.0	23.68	23.40	23.46	23.38	23.24	1.0	24.5	
		25	25	21.00	20.79	20.93	20.87	20.77	0.0	22.0	23.67	23.32	23.45	23.41	23.08	1.0	24.5	
	16QAM	50	0	21.00	20.83	20.92	20.84	20.75	0.0	22.0	23.65	23.42	23.41	23.37	23.21	1.0	24.5	
		1	0	21.08	20.77	20.85	20.90	20.59	0.0	22.0	23.69	23.37	23.35	23.53	23.20	1.0	24.5	
		1	25	21.08	20.84	20.97	20.93	20.67	0.0	22.0	23.74	23.57	23.39	23.43	23.27	1.0	24.5	
		1	49	21.10	20.68	20.88	20.83	20.53	0.0	22.0	23.67	23.40	23.38	23.48	22.67	1.0	24.5	
		25	0	21.02	20.85	20.86	20.80	20.67	0.0	22.0	22.69	22.41	22.33	22.31	22.21	2.0	23.5	
		25	12	21.06	20.87	20.92	20.91	20.77	0.0	22.0	22.69	22.39	22.42	22.44	22.23	2.0	23.5	
	64QAM	25	25	21.07	20.80	20.93	20.88	20.75	0.0	22.0	22.65	22.30	22.44	22.43	22.13	2.0	23.5	
		50	0	21.05	20.89	20.92	20.88	20.77	0.0	22.0	22.70	22.45	22.38	22.44	22.23	2.0	23.5	
		1	0	21.00	20.74	20.93	20.83	20.64	0.0	22.0	22.31	22.24	22.25	22.17	22.03	2.0	23.5	
		1	25	21.01	20.77	20.98	20.99	20.77	0.0	22.0	22.41	22.21	22.31	22.29	22.00	2.0	23.5	
		1	49	21.03	20.67	20.93	20.85	20.66	0.0	22.0	22.25	22.10	22.11	22.01	21.99	2.0	23.5	
		25	0	21.09	20.89	20.88	20.86	20.74	0.0	22.0	21.43	21.24	21.17	21.24	21.08	3.0	22.5	
	256QAM	25	12	21.09	20.92	21.00	20.92	20.85	0.0	22.0	21.40	21.21	21.27	21.28	21.08	3.0	22.5	
		25	25	21.09	20.83	20.99	20.92	20.81	0.0	22.0	21.41	21.13	21.25	21.23	21.01	3.0	22.5	
		50	0	21.08	20.89	20.95	20.93	20.83	0.0	22.0	21.38	21.21	21.28	21.26	21.06	3.0	22.5	
		1	0	19.43	19.28	19.20	19.30	19.20	1.5	20.5	19.45	19.19	19.25	19.23	19.21	5.0	20.5	
		1	25	19.56	19.44	19.36	19.37	19.31	1.5	20.5	19.46	19.34	19.36	19.29	19.14	5.0	20.5	
		1	49	19.54	19.17	19.26	19.23	19.26	1.5	20.5	19.51	19.20	19.39	19.28	19.15	5.0	20.5	
	5 MHz	QPSK	25	0	19.59	19.39	19.38	19.37	19.24	1.5	20.5	19.68	19.36	19.32	19.32	19.21	5.0	20.5
			25	12	19.60	19.43	19.47	19.44	19.35	1.5	20.5	19.69	19.43	19.40	19.39	19.27	5.0	20.5
			25	25	19.61	19.33	19.45	19.43	19.31	1.5	20.5	19.67	19.27	19.44	19.41	19.29	5.0	20.5
			50	0	19.56	19.40	19.51	19.42	19.31	1.5	20.5	19.64	19.40	19.44	19.38	19.20	5.0	20.5
			1	0	20.90	20.84	20.83	20.75	20.76	0.0	22.0	24.64	24.32	24.31	24.45	24.23	0.0	25.5
			1	12	20.97	20.88	20.94	20.88	20.82	0.0	22.0	24.66	24.40	24.46	24.40	24.27	0.0	25.5
16QAM		1	24	20.89	20.72	20.85	20.73	20.69	0.0	22.0	24.62	24.23	24.29	24.24	23.85	0.0	25.5	
		12	0	20.92	20.87	20.85	20.78	20.72	0.0	22.0	23.66	23.40	23.44	23.37	23.25	1.0	24.5	
		12	7	20.96	20.87	20.94	20.88	20.80	0.0	22.0	23.70	23.42	23.46	23.42	23.24	1.0	24.5	
		12	13	20.95	20.86	20.91	20.82	20.79	0.0	22.0	23.67	23.38	23.45	23.37	23.23	1.0	24.5	
		25	0	20.97	20.86	20.92	20.84	20.78	0.0	22.0	23.66	23.37	23.40	23.37	23.26	1.0	24.5	
		1	0	20.92	21.00	20.92	20.82	20.91	0.0	22.0	23.59	23.37	23.43	23.53	23.39	1.0	24.5	
64QAM		1	12	20.98	21.06	21.04	20.90	21.03	0.0	22.0	23.70	23.51	23.37	23.49	23.31	1.0	24.5	
		1	24	20.89	20.90	20.85	20.75	20.91	0.0	22.0	23.68	23.32	23.34	23.34	22.82	1.0	24.5	
		12	0	20.92	20.81	20.96	20.84	20.68	0.0	22.0	22.81	22.49	22.50	22.51	22.17	2.0	23.5	
		12	7	20.95	20.80	21.05	20.91	20.75	0.0	22.0	22.82	22.47	22.51	22.53	22.22	2.0	23.5	
		12	13	20.95	20.77	21.00	20.89	20.74	0.0	22.0	22.76	22.43	22.50	22.51	22.17	2.0	23.5	
		25	0	21.02	20.87	20.93	20.90	20.79	0.0	22.0	22.68	22.42	22.38	22.40	22.18	2.0	23.5	
256QAM		1	0	20.92	20.89	20.90	20.90	20.79	0.0	22.0	22.24	22.17	22.24	22.27	22.14	2.0	23.5	
		1	12	21.09	20.91	20.93	21.01	20.91	0.0	22.0	22.31	22.25	22.27	22.47	22.15	2.0	23.5	
		1	24	21.02	20.79	20.83	20.89	20.77	0.0	22.0	22.26	22.09	22.17	22.25	22.02	2.0	23.5	
		12	0	20.95	20.87	20.86	20.82	20.76	0.0	22.0	21.34	21.21	21.17	21.21	21.06	3.0	22.5	
		12	7	20.98	20.87	20.95	20.92	20.82	0.0	22.0	21.42	21.20	21.23	21.26	21.05	3.0	22.5	
		12	13	20.96	20.85	20.93	20.89	20.80	0.0	22.0	21.33	21.16	21.20	21.21	21.01	3.0	22.5	
QPSK		25	0	20.99	20.87	20.94	20.90	20.82	0.0	22.0	21.37	21.18	21.24	21.23	20.99	3.0	22.5	
		1	0	19.45	19.35	19.29	19.27	19.23	1.5	20.5	19.65	19.36	19.29	19.34	19.14	5.0	20.5	
		1	12	19.58	19.39	19.41	19.40	19.29	1.5	20.5	19.74	19.38	19.46	19.39	19.29	5.0	20.5	
		1	24	19.51	19.16	19.34	19.27	19.26	1.5	20.5	19.68	19.22	19.28	19.30	19.22	5.0	20.5	
		12	0	19.50	19.36	19.39	19.35	19.25	1.5	20.5	19.71	19.44	19.43	19.37	19.22	5.0	20.5	
		12	7	19.50	19.41	19.45	19.43	19.35	1.5	20.5	19.67	19.46	19.42	19.37	19.22	5.0	20.5	
QPSK	12	13	19.47	19.36	19.42	19.40	19.32	1.5	20.5	19.65	19.37	19.42	19.35	19.26	5.0	20.5		
	25	0	19.47	19.36	19.41	19.39	19.31	1.5	20.5	19.68	19.38	19.39	19.39	19.24	5.0	20.5		

LTE Band 41 (Power Class 2) (Ant E) Measured Results

DSI	Modulation	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	Output Power (dBm)	
						Tune-up Limit	Meas. Power
DSI = 3	QPSK	20	39750	2506.0	1/49	27.00	25.84
DSI = 1	QPSK	20	39750	2506.0	1/49	23.60	21.93
DSI = 0	QPSK	20	39750	2506.0	1/49	23.60	22.43
DSI = 0	QPSK	20	40185	2549.5	50/50	23.60	22.14

Notes:

Conducted Power measurement for LTE Band 41 Power Class 2 were performed with the highest SAR test configuration in Power Class 3 for each RF Exposure condition.

9.4. NR (Sub 6GHz)

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

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

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

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

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

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

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Ful_Left	Edge_Ful_Right	Edge_1RB_Left	Edge_1RB_Right	Outer_Full	Inner_Full	Inner_1RB_Left	Inner_1RB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	28@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	38@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 ¹	1@1	1@77
	30	DFT-s	2@0	2@38	1@0	1@37	36@0	18@9	1@1	1@38
		CP	2@0	2@38	1@0	1@37	38@0	19@9	1@1	1@38
	60	DFT-s	2@0	2@18	1@0	1@17	18@0	9@4	1@1	1@18
		CP	2@0	2@18	1@0	1@17	18@0	9@4	1@1	1@18
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	108@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 ¹	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22

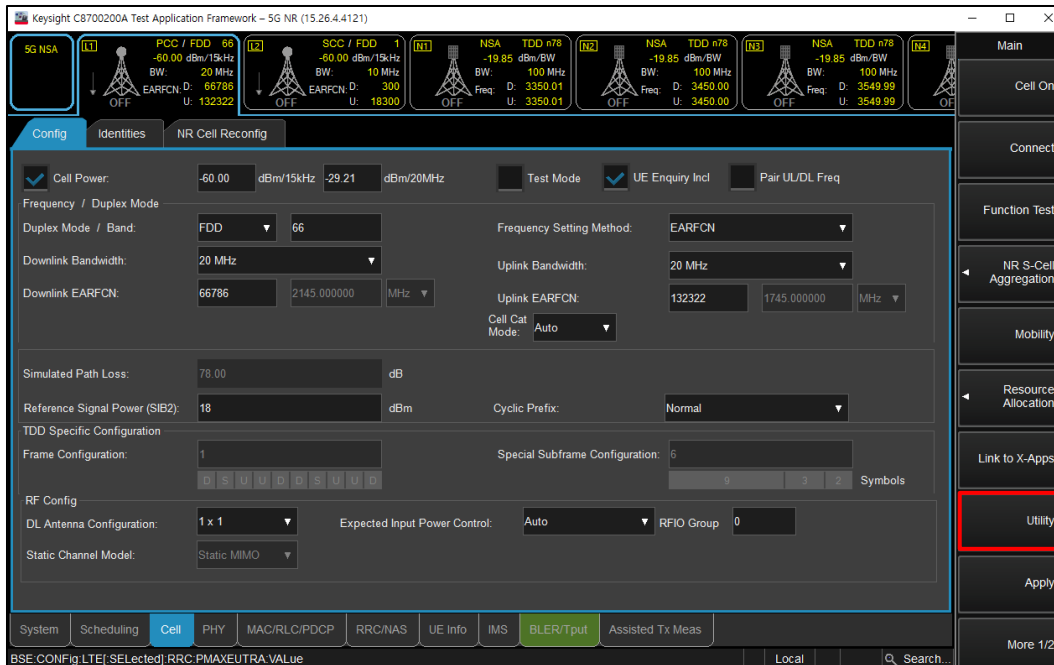
SAR test exclusion can be applied for testing overlapping NR bands as follows:

- a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
 - b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
- NR Band n2 (1850 – 1910 MHz) is covered by NR Band n25 (1850 – 1915 MHz)

Procedures used to establish power measurement for NR Bands

Switching to NSA mode or SA mode

- Click the “Utility” button in the right of Test application screen
- Select “5G NR NSA” in the “TA Mode Switch” for NSA mode
- Select “5G NR Standalone” in the “TA Mode Switch” for SA mode



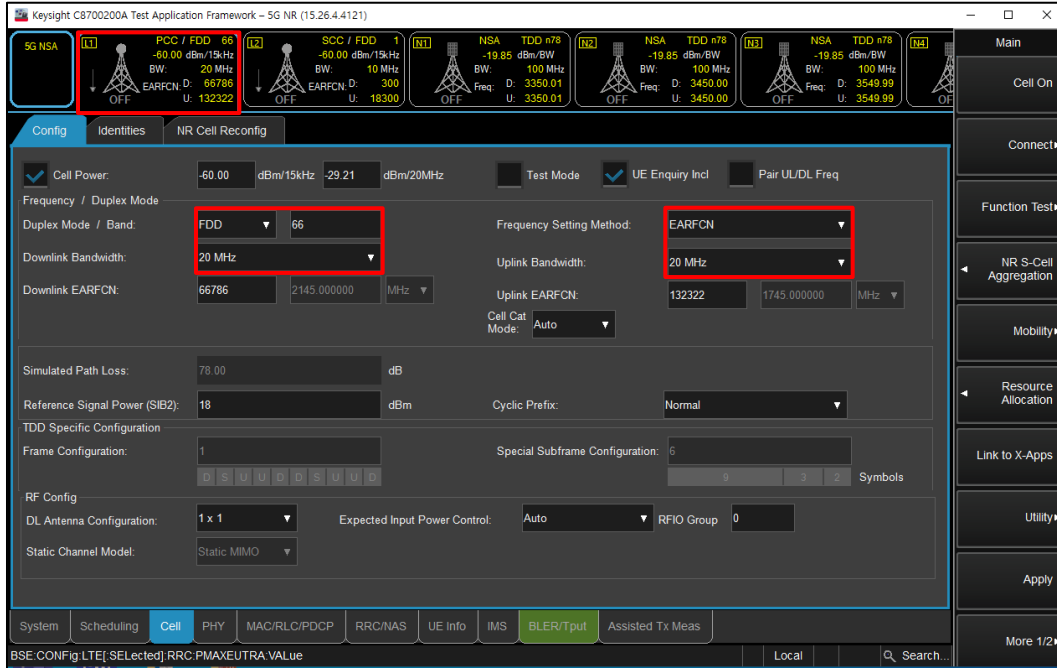
(Figure 1-1)



(Figure 1-2)

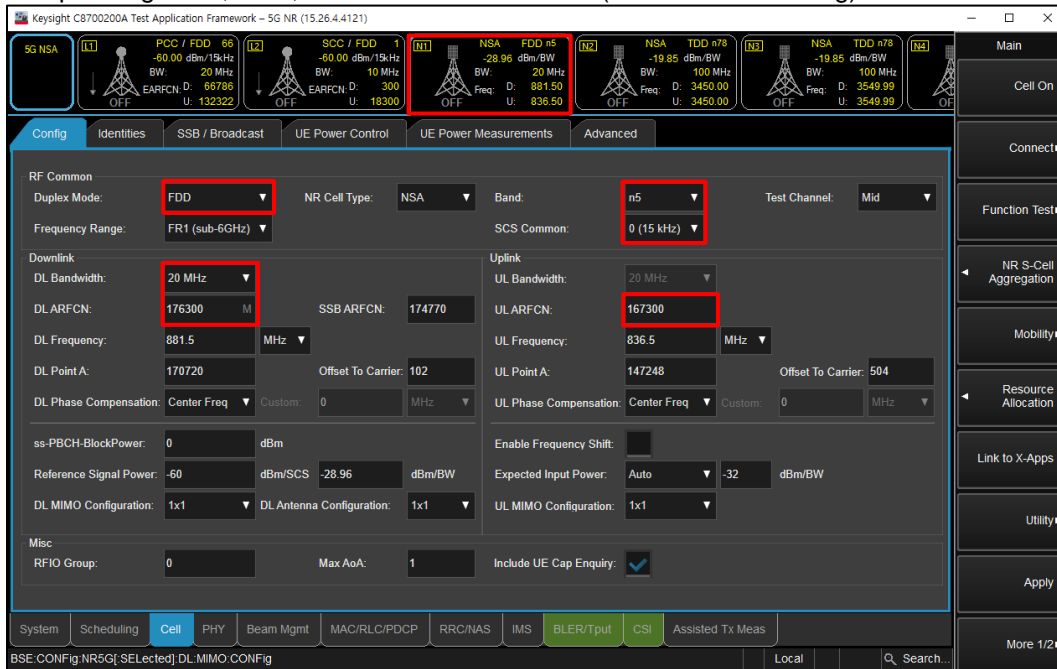
NSA Mode

- Select operating band, BW and Channel for LTE (LTE -> Cell -> Config)



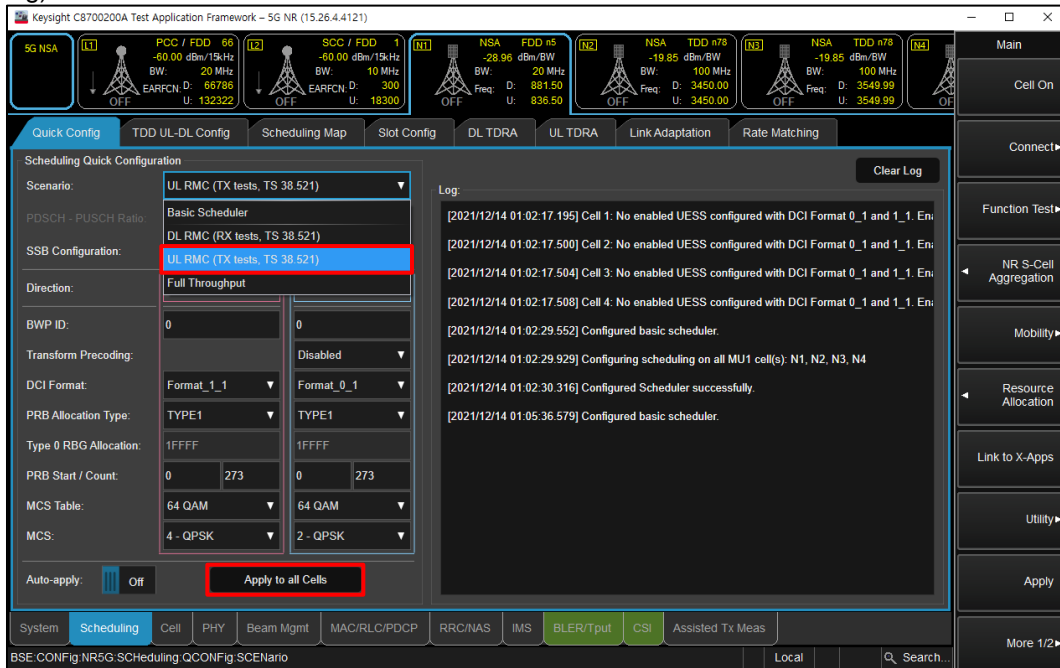
(Figure 2-1)

- Select operating band, SCS, BW and Channel for NR (NR -> Cell -> Config)



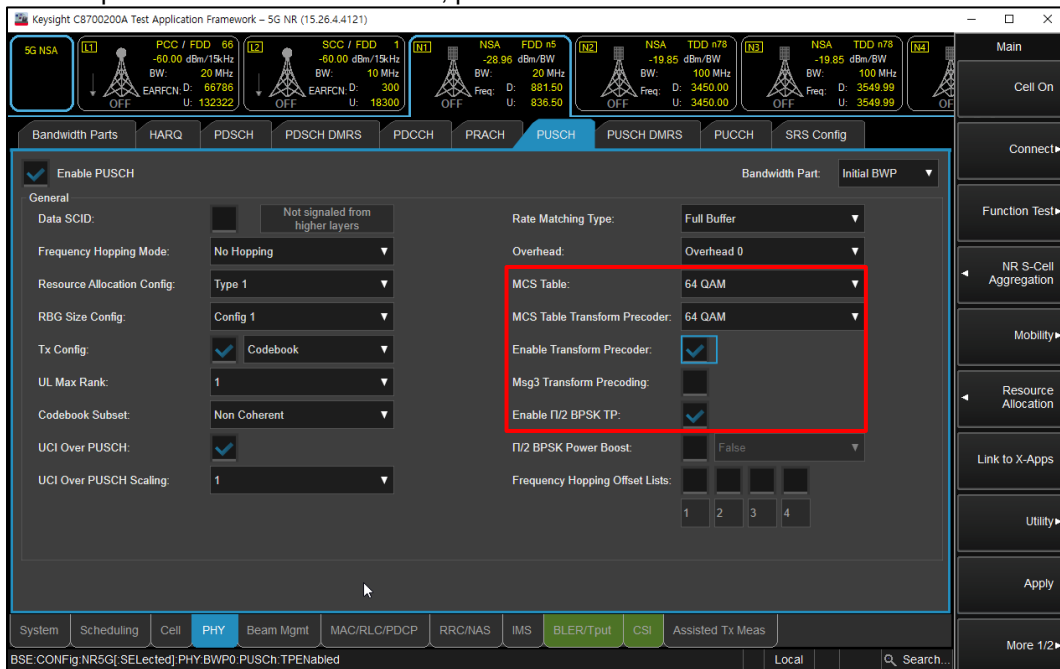
(Figure 2-2)

- Select “UL RMC (TX tests, TS 38.521)” for maximum power RB scheduling (NR -> Scheduling -> Quick Config)



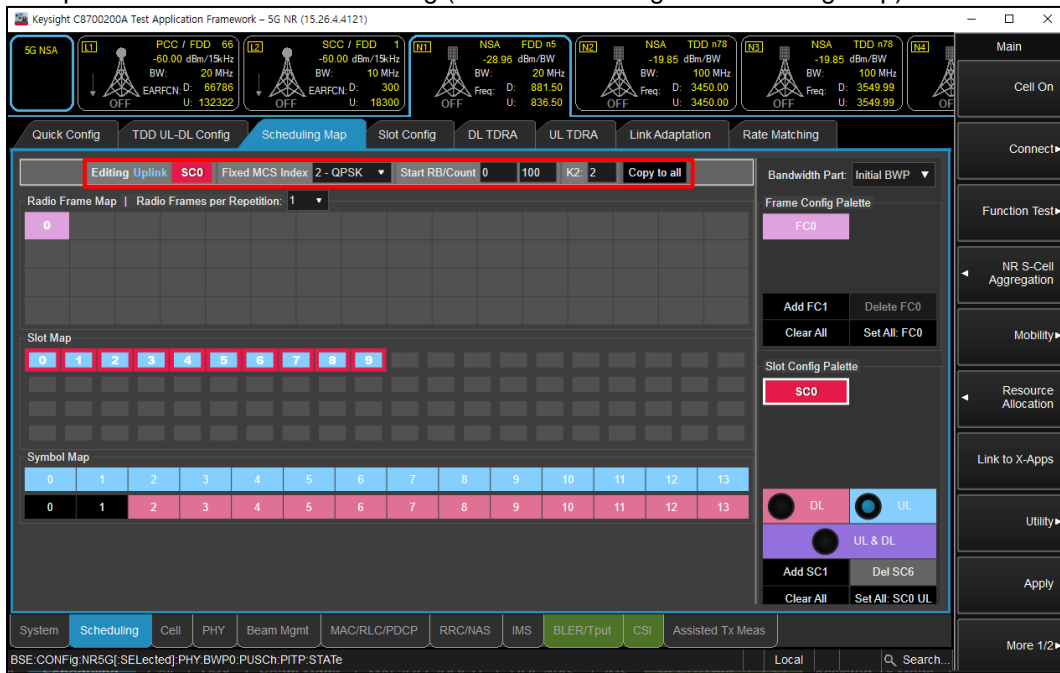
(Figure 2-3)

- To set waveform for NR Band (NR -> PHY -> PUSCH)
 - Select highest modulation in the MCS Table and MCS Table Transform Precoder
 - Enable Transform Precoder: DFT-s-OFDM / disable for CP-OFDM
 - Enable pi/2 BPSK TP: DFT-s-OFDM, pi/2 BPSK modulation



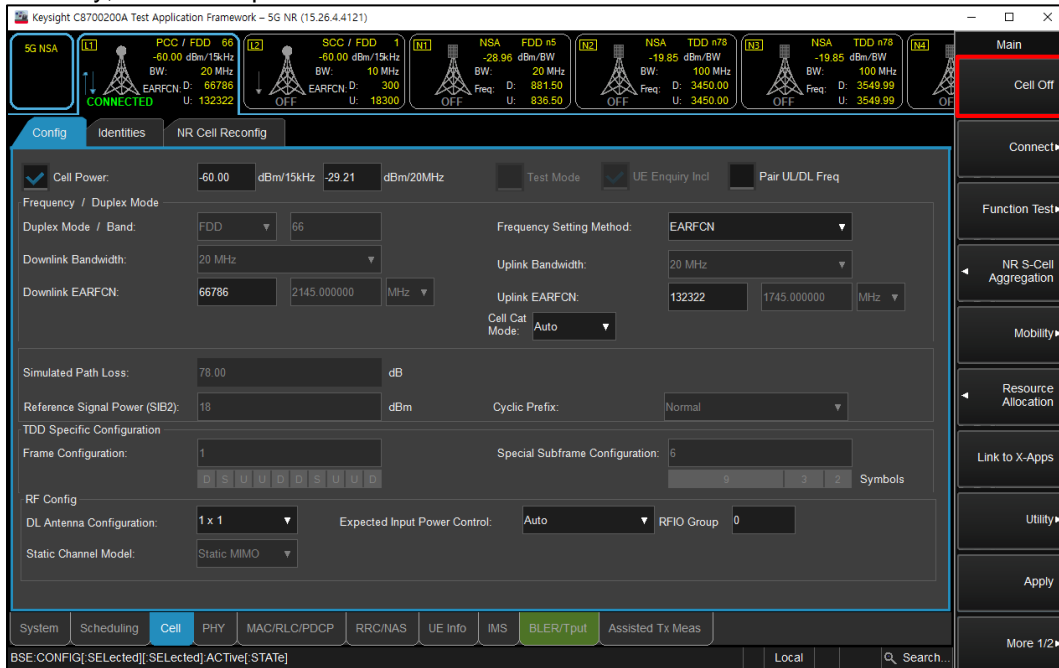
(Figure 2-4)

- Select Uplink Modulation and RB setting (NR -> Scheduling -> Scheduling Map)



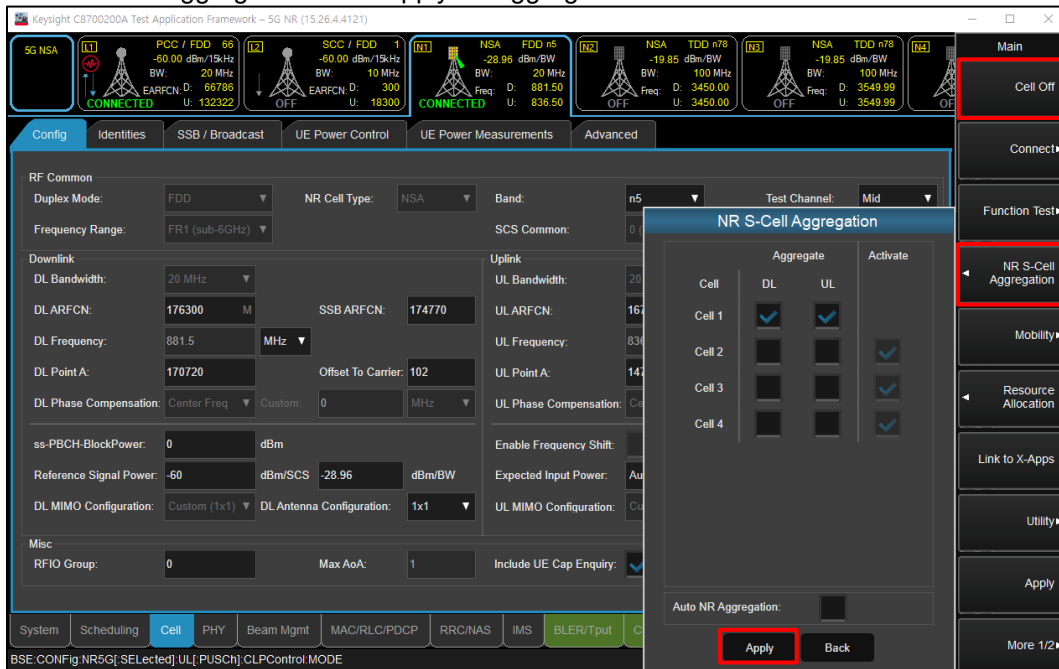
(Figure 2-5)

- Click “Cell On” button in the right of Test application screen in the LTE tab
- If necessary, turn the Airplane Mode on/off in the DUT



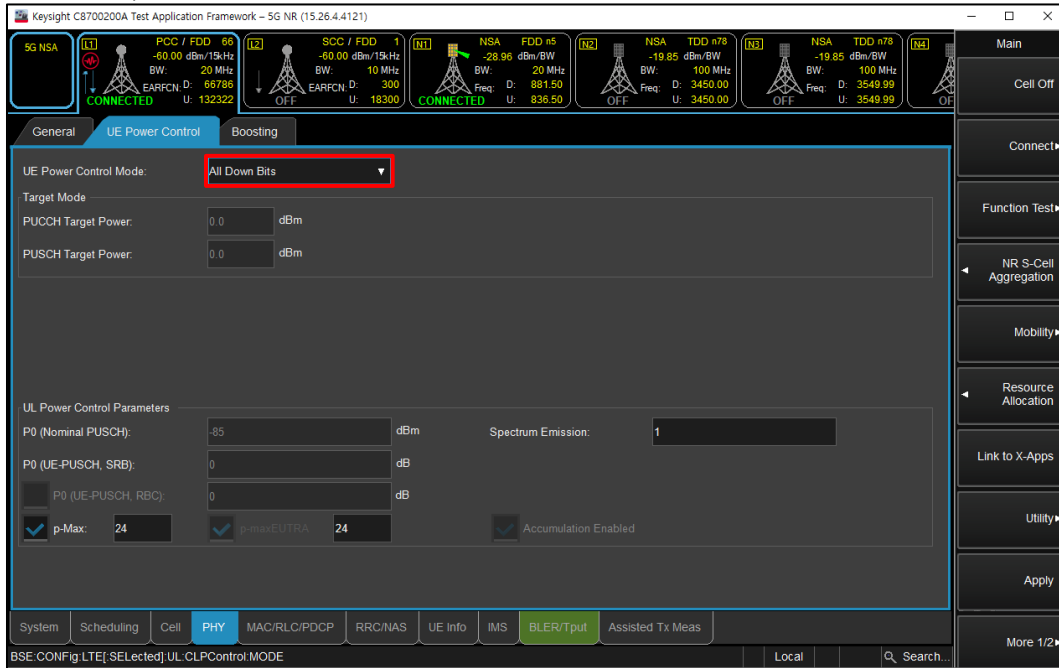
(Figure 2-6)

- Click “Cell On” button in the right of Test application screen in the NR tab
- Click “NR S-Cell Aggregation” and “Apply” to aggregate NR band



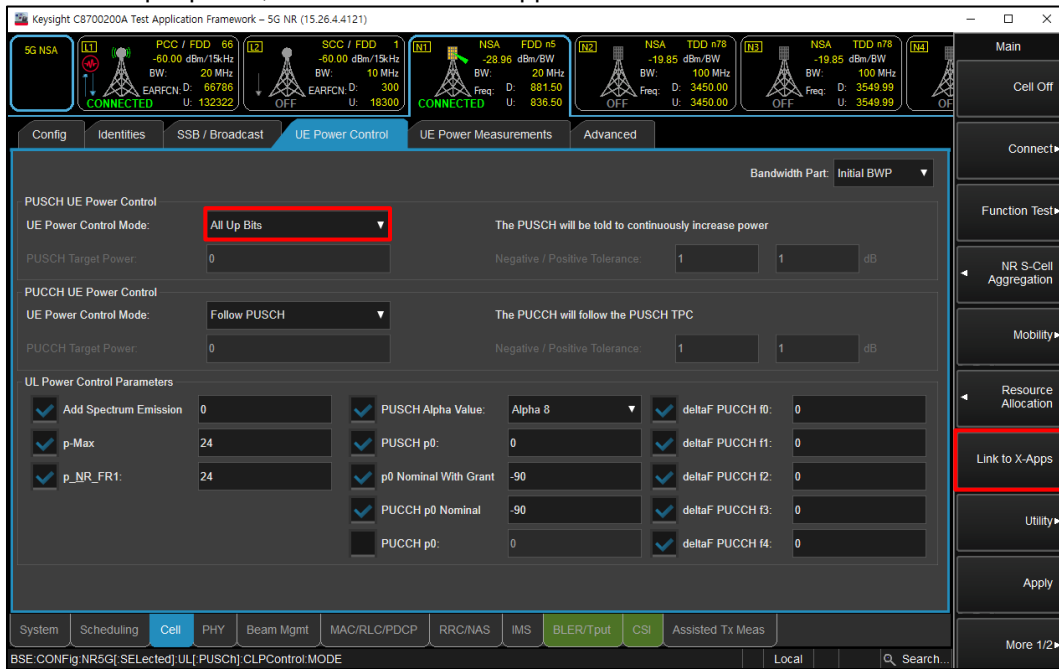
(Figure 2-7)

- Select “All Down Bits” of UL Power control Mode in LTE tab for NR maximum power (LTE -> PHY -> UE Power Control)



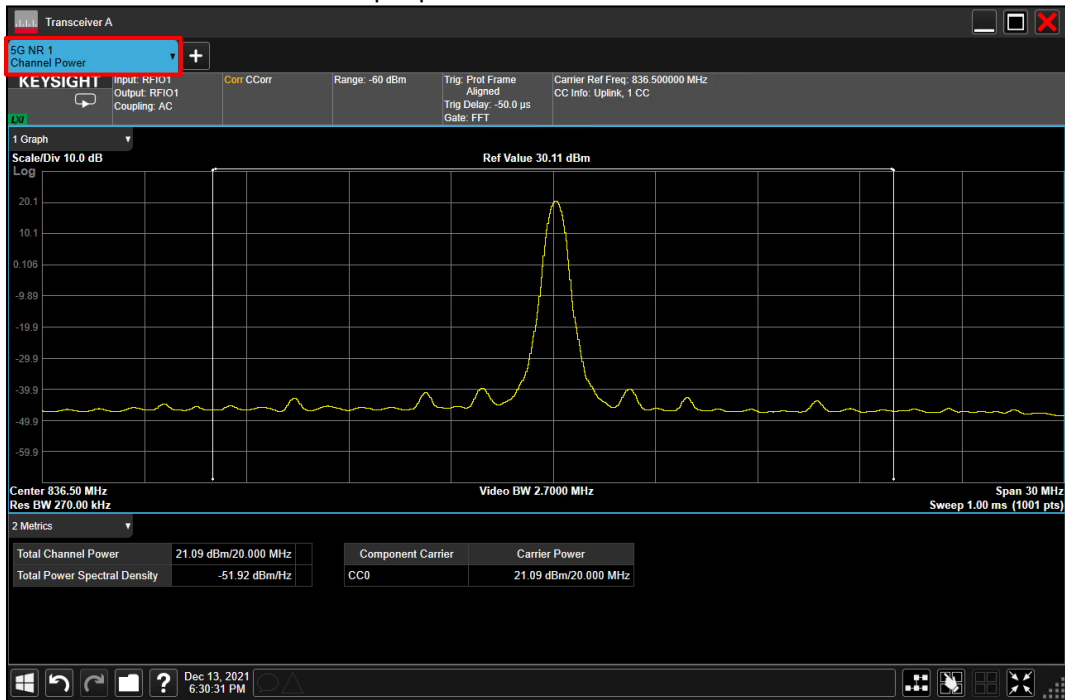
(Figure 2-8)

- Select “All Up Bits” of UL Power control Mode in NR tab for NR maximum power (NR -> Cell -> UE Power Control)
- To read the output power, click the “Link to X-Apps”



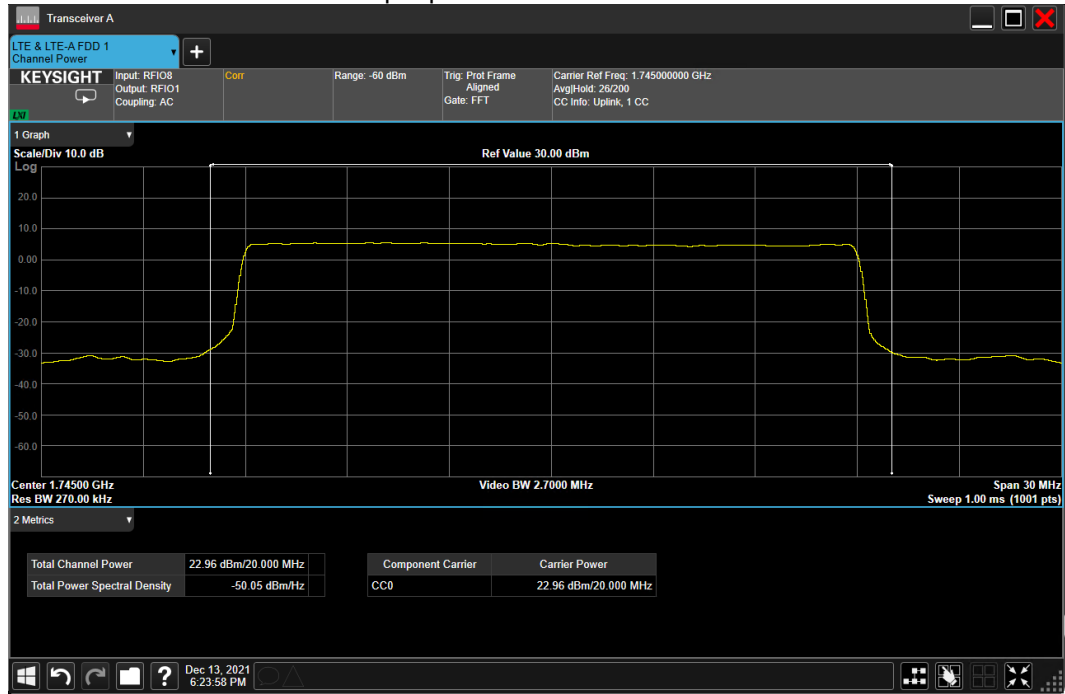
(Figure 2-9)

- Select "Channel Power" for NR output power



(Figure 2-10)

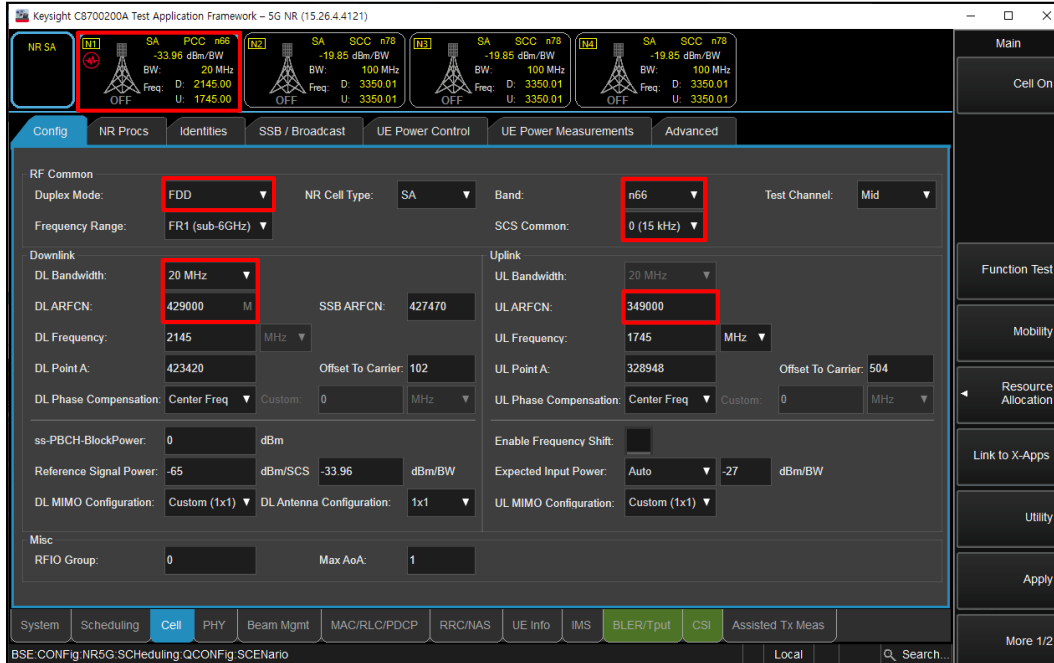
- Select "Channel Power" for LTE output power



(Figure 2-11)

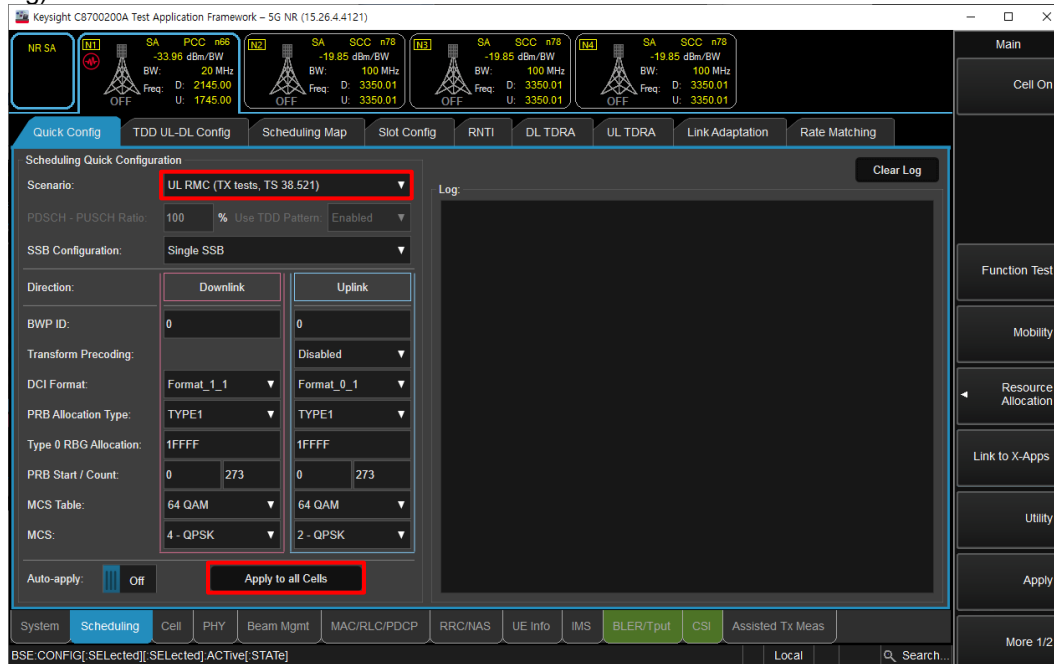
SA Mode

- Select operating band, SCS, BW and Channel for NR (NR -> Cell -> Config)



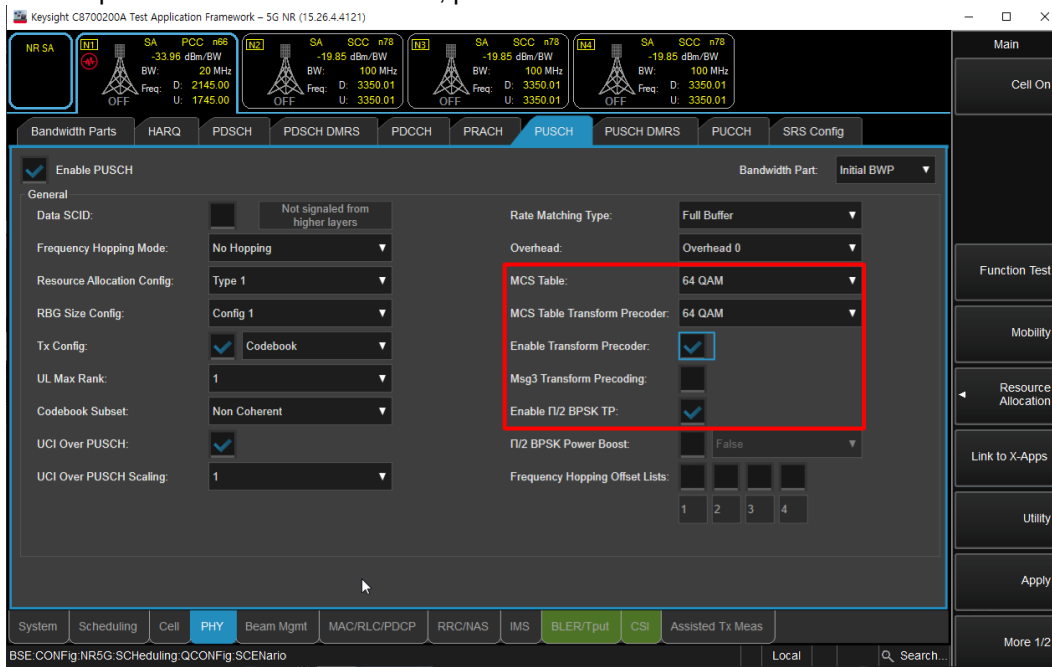
(Figure 3-1)

- Select "UL RMC (TX tests, TS 38.521)" for maximum power RB scheduling (NR -> Scheduling -> Quick Config)



(Figure 3-2)

- To set waveform for NR Band (NR -> PHY -> PUSCH)
 - Select highest modulation in the MCS Table and MCS Table Transform Precoder
 - Enable Transform Precoder: DFT-s-OFDM / disable for CP-OFDM
 - Enable pi/2 BPSK TP: DFT-s-OFDM, pi/2 BPSK modulation



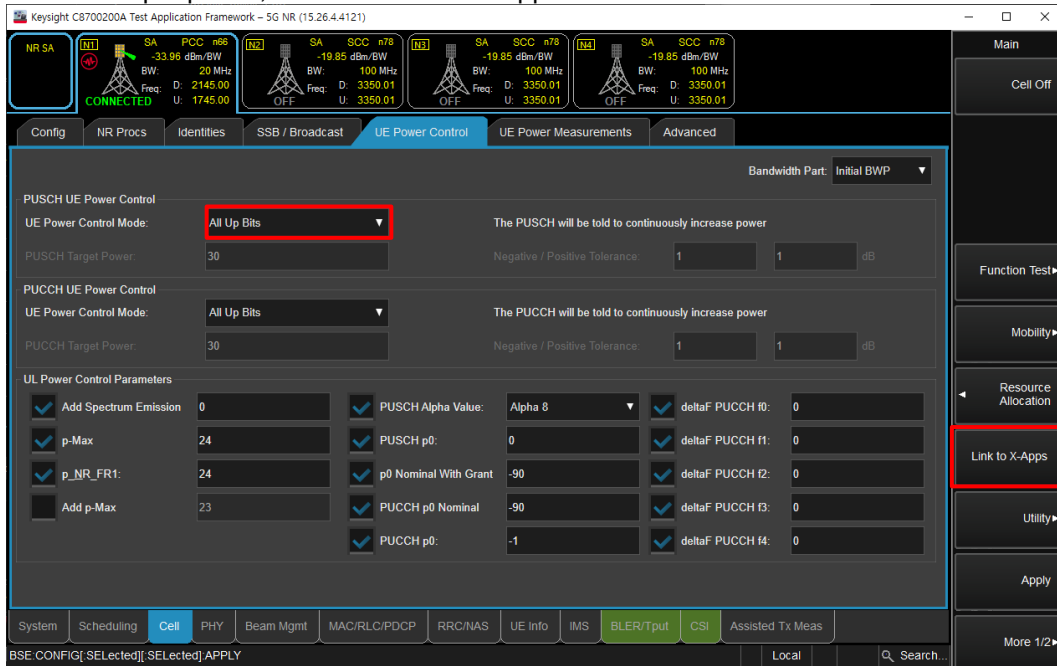
(Figure 3-3)

- Select Uplink Modulation and RB setting (NR -> Scheduling -> Scheduling Map)



(Figure 3-4)

- Click “Cell On” button in the right of Test application screen
- If necessary, turn the Airplane Mode on/off in the DUT
- Select “All Up Bits” of UL Power control Mode (Cell -> UE Power Control)
- To read the output power, click the “Link to X-Apps”



(Figure 3-5)

- Select “Channel Power”



(Figure 3-6)

NR Band n5 (Ant A & Ant.A+B) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
					DSI = 0, 1, 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					166800	167300	167800		
834.0 MHz	836.5 MHz	839.0 MHz							
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		24.12		0.0	25.0
			1	52		23.87		0.0	25.0
			1	104		23.84		0.0	25.0
			50	0		22.93		0.5	24.5
			50	28		23.90		0.0	25.0
			50	56		22.78		0.5	24.5
		100	0		22.95		0.5	24.5	
		QPSK	1	1		23.91		0.0	25.0
			1	52		24.11		0.0	25.0
			1	104		23.87		0.0	25.0
			50	0		22.97		1.0	24.0
			50	28		23.88		0.0	25.0
			50	56		22.78		1.0	24.0
		100	0		23.02		1.0	24.0	
	16QAM	1	1		22.94		1.0	24.0	
		1	52		22.78		1.0	24.0	
1		104		22.77		1.0	24.0		
64QAM	1	1		21.72		2.5	22.5		
256QAM	1	1		18.95		4.5	20.5		
CP-OFDM	QPSK	1	1		22.60		1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					166300	167300	168300		
					831.5 MHz	836.5 MHz	841.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.74		0.0	25.0
			1	39		23.56		0.0	25.0
			1	77		23.57		0.0	25.0
			36	0		22.72		0.5	24.5
			36	21		23.68		0.0	25.0
			36	43		22.64		0.5	24.5
		75	0		22.64		0.5	24.5	
		QPSK	1	1		23.73		0.0	25.0
			1	39		23.53		0.0	25.0
			1	77		23.62		0.0	25.0
			36	0		22.74		1.0	24.0
			36	21		23.69		0.0	25.0
			36	43		22.65		1.0	24.0
		75	0		22.65		1.0	24.0	
	16QAM	1	1		22.72		1.0	24.0	
		1	39		22.47		1.0	24.0	
1		77		22.56		1.0	24.0		
64QAM	1	1		21.47		2.5	22.5		
256QAM	1	1		18.78		4.5	20.5		
CP-OFDM	QPSK	1	1		22.34		1.5	23.5	

NR Band n5 (Ant A & Ant.A+B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165800	167300	168800		
					829.0 MHz	836.5 MHz	844.0 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.85		23.54	0.0	25.0
			1	25	23.73		23.68	0.0	25.0
			1	50	23.61		23.63	0.0	25.0
			25	0	22.71		22.51	0.5	24.5
			25	13	23.72		23.59	0.0	25.0
			25	27	22.63		22.58	0.5	24.5
		QPSK	1	1	23.87		23.50	0.0	25.0
			1	25	23.67		23.68	0.0	25.0
			1	50	23.59		23.73	0.0	25.0
			25	0	22.69		22.54	1.0	24.0
			25	13	23.68		23.54	0.0	25.0
			25	27	22.66		22.58	1.0	24.0
		16QAM	50	0	22.68		22.51	1.0	24.0
			1	1	22.73		22.37	1.0	24.0
			1	25	22.62		22.58	1.0	24.0
			1	50	22.45		22.52	1.0	24.0
		64QAM	1	1	21.46		21.08	2.5	22.5
256QAM	1	1	18.83		18.44	4.5	20.5		
CP-OFDM	QPSK	1	1	22.44		22.10	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165300	167300	169300		
					826.50 MHz	836.50 MHz	846.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.80	23.54	23.67	0.0	25.0
			1	12	23.80	23.48	23.63	0.0	25.0
			1	23	23.64	23.51	23.68	0.0	25.0
			12	0	22.79	22.51	22.62	0.5	24.5
			12	6	23.81	23.53	23.61	0.0	25.0
			12	13	22.67	22.47	22.56	0.5	24.5
		QPSK	25	0	22.80	22.49	22.59	0.5	24.5
			1	1	23.87	23.61	23.64	0.0	25.0
			1	12	23.84	23.56	23.64	0.0	25.0
			1	23	23.69	23.52	23.67	0.0	25.0
			12	0	22.85	22.49	22.68	1.0	24.0
			12	6	23.84	23.53	23.53	0.0	25.0
		16QAM	12	13	22.69	22.50	22.56	1.0	24.0
			25	0	22.82	22.54	22.62	1.0	24.0
			1	1	22.81	22.52	22.65	1.0	24.0
			1	12	22.70	22.39	22.46	1.0	24.0
		64QAM	1	1	21.55	21.24	21.33	2.5	22.5
256QAM	1	1	18.88	18.56	18.67	4.5	20.5		
CP-OFDM	QPSK	1	1	22.45	22.16	22.25	1.5	23.5	

NR Band n5 (Ant D) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
					DSI = 0, 1, 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					166800	167300	167800		
834.00 MHz	836.50 MHz	839.00 MHz							
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.77		0.0	25.0
			1	52		23.65		0.0	25.0
			1	104		22.64		0.0	25.0
			50	0		22.63		0.5	24.5
			50	28		23.59		0.0	25.0
			50	56		22.52		0.5	24.5
		100	0		22.55		0.5	24.5	
		QPSK	1	1		23.76		0.0	25.0
			1	52		23.61		0.0	25.0
			1	104		23.58		0.0	25.0
			50	0		22.60		1.0	24.0
			50	28		23.58		0.0	25.0
			50	56		22.49		1.0	24.0
		100	0		22.60		1.0	24.0	
	16QAM	1	1		22.50		1.0	24.0	
		1	52		22.45		1.0	24.0	
1		104		22.31		1.0	24.0		
64QAM	1	1		21.34		2.5	22.5		
256QAM	1	1		18.65		4.5	20.5		
CP-OFDM	QPSK	1	1		22.27		1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					166300	167300	168300		
					831.50 MHz	836.50 MHz	841.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.63		0.0	25.0
			1	39		23.32		0.0	25.0
			1	77		23.30		0.0	25.0
			36	0		22.60		0.5	24.5
			36	21		23.48		0.0	25.0
			36	43		22.42		0.5	24.5
			75	0		22.52		0.5	24.5
		QPSK	1	1		23.65		0.0	25.0
			1	39		23.34		0.0	25.0
			1	77		23.29		0.0	25.0
			36	0		22.58		1.0	24.0
			36	21		23.47		0.0	25.0
			36	43		22.44		1.0	24.0
			75	0		22.48		1.0	24.0
		16QAM	1	1		22.51		1.0	24.0
			1	39		22.33		1.0	24.0
			1	77		22.33		1.0	24.0
		64QAM	1	1		21.34		2.5	22.5
	256QAM	1	1		18.65		4.5	20.5	
CP-OFDM	QPSK	1	1		22.25		1.5	23.5	

NR Band n5 (Ant D) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165800	167300	168800		
					829.00 MHz	836.50 MHz	844.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.82		23.39	0.0	25.0
			1	25	23.62		23.50	0.0	25.0
			1	50	23.41		23.43	0.0	25.0
			25	0	22.62		22.36	0.5	24.5
			25	13	23.60		23.37	0.0	25.0
			25	27	22.51		22.35	0.5	24.5
		QPSK	1	1	23.86		23.40	0.0	25.0
			1	25	23.65		23.37	0.0	25.0
			1	50	23.51		23.45	0.0	25.0
			25	0	22.64		22.41	1.0	24.0
			25	13	23.59		23.34	0.0	25.0
			25	27	22.54		22.37	1.0	24.0
		16QAM	50	0	22.59		22.31	1.0	24.0
			1	1	22.69		22.29	1.0	24.0
			1	25	22.49		22.34	1.0	24.0
			1	50	22.28		22.34	1.0	24.0
64QAM	1	1	21.40		20.93	2.5	22.5		
256QAM	1	1	18.75		18.31	4.5	20.5		
CP-OFDM	QPSK	1	1	22.44		21.90	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165300	167300	169300		
					826.50 MHz	836.50 MHz	846.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.84	23.49	23.51	0.0	25.0
			1	12	23.87	23.43	23.48	0.0	25.0
			1	23	23.59	23.40	23.55	0.0	25.0
			12	0	22.86	22.41	22.52	0.5	24.5
			12	6	23.84	23.38	23.42	0.0	25.0
			12	13	22.69	22.37	22.38	0.5	24.5
		QPSK	25	0	22.81	22.44	22.42	0.5	24.5
			1	1	23.89	23.53	23.51	0.0	25.0
			1	12	23.74	23.37	23.52	0.0	25.0
			1	23	23.61	23.42	23.48	0.0	25.0
			12	0	22.95	22.44	22.49	1.0	24.0
			12	6	22.84	23.47	23.44	0.0	25.0
		16QAM	12	13	22.65	22.42	22.38	1.0	24.0
			25	0	22.84	22.44	22.46	1.0	24.0
			1	1	22.82	22.45	22.41	1.0	24.0
			1	12	22.70	22.31	22.28	1.0	24.0
		64QAM	1	23	22.65	22.35	22.43	1.0	24.0
			1	1	21.58	21.18	21.17	2.5	22.5
		256QAM	1	1	18.95	18.53	18.55	4.5	20.5
CP-OFDM	QPSK	1	1	22.46	22.16	22.18	1.5	23.5	

NR Band n66 (Ant B) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0, 1					DSI = 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					346000	349000	352000			346000	349000	352000		
1730.0 MHz	1745.0 MHz	1760.0 MHz	1730.0 MHz	1745.0 MHz	1760.0 MHz									
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.37		0.0	20.0		23.89		0.0	24.5
			1	107		19.27		0.0	20.0		23.71		0.0	24.5
			1	214		19.33		0.0	20.0		23.75		0.0	24.5
			108	0		19.41		0.0	20.0		23.67		0.5	24.0
			108	54		19.35		0.0	20.0		23.76		0.0	24.5
			108	108		19.23		0.0	20.0		22.75		0.5	24.0
		216	0		19.40		0.0	20.0		22.79		0.5	24.0	
		QPSK	1	1		19.50		0.0	20.0		23.97		0.0	24.5
			1	107		19.28		0.0	20.0		23.73		0.0	24.5
			1	214		19.35		0.0	20.0		23.82		0.0	24.5
			108	0		19.36		0.0	20.0		22.86		1.0	23.5
			108	54		19.37		0.0	20.0		23.85		0.0	24.5
			108	108		19.25		0.0	20.0		22.79		1.0	23.5
		16QAM	216	0		19.38		0.0	20.0		22.84		1.0	23.5
			1	1		19.48		0.0	20.0		22.79		1.0	23.5
			1	107		19.26		0.0	20.0		22.73		1.0	23.5
		64QAM	1	214		19.27		0.0	20.0		22.64		1.0	23.5
			1	1		19.55		0.0	20.0		21.57		2.5	22.0
256QAM	1	1		18.95		0.0	20.0		18.97		4.5	20.0		
CP-OFDM	QPSK	1	1		19.66		0.0	20.0		22.61		1.5	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0, 1					DSI = 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
345500	349000	352500	345500	349000	352500									
1727.5 MHz	1745.0 MHz	1762.5 MHz	1727.5 MHz	1745.0 MHz	1762.5 MHz									
35 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.69		19.27	0.0	20.0	24.16		23.89	0.0	24.5
			1	93	19.65		19.39	0.0	20.0	24.12		23.98	0.0	24.5
			1	186	19.35		19.28	0.0	20.0	23.85		23.79	0.0	24.5
			90	0	19.61		19.26	0.0	20.0	23.20		23.69	0.5	24.0
			90	49	19.60		19.41	0.0	20.0	24.14		22.89	0.0	24.5
			90	98	19.47		19.22	0.0	20.0	23.07		22.84	0.5	24.0
		180	0	19.43		19.18	0.0	20.0	23.03		22.86	0.5	24.0	
		QPSK	1	1	19.65		19.30	0.0	20.0	24.25		23.85	0.0	24.5
			1	93	19.62		19.46	0.0	20.0	24.14		24.01	0.0	24.5
			1	186	19.39		19.29	0.0	20.0	23.89		23.82	0.0	24.5
			90	0	19.59		19.34	0.0	20.0	23.24		22.97	1.0	23.5
			90	49	19.57		19.45	0.0	20.0	24.19		24.03	0.0	24.5
			90	98	19.50		19.22	0.0	20.0	23.09		22.92	1.0	23.5
		180	0	19.48		19.17	0.0	20.0	23.04		22.87	1.0	23.5	
		16QAM	1	1	19.67		19.23	0.0	20.0	23.20		22.84	1.0	23.5
			1	93	19.46		19.32	0.0	20.0	23.02		22.92	1.0	23.5
			1	186	19.38		19.24	0.0	20.0	22.89		22.75	1.0	23.5
		64QAM	1	1	19.79		19.45	0.0	20.0	21.95		21.62	2.5	22.0
256QAM	1	1	19.07		18.70	0.0	20.0	19.22		18.88	4.5	20.0		
CP-OFDM	QPSK	1	1	19.80		19.41	0.0	20.0	22.88		22.59	1.5	23.0	

NR Band n66 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000	349000	353000			345000	349000	353000		
					1725.0 MHz	1745.0 MHz	1765.0 MHz			1725.0 MHz	1745.0 MHz	1765.0 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.80		19.54	0.0	20.0	24.39		24.17	0.0	24.5
			1	79	19.59		19.40	0.0	20.0	24.18		24.04	0.0	24.5
			1	158	19.58		19.48	0.0	20.0	24.14		23.81	0.0	24.5
			80	0	19.65		19.36	0.0	20.0	23.30		22.98	0.5	24.0
			80	40	19.60		19.40	0.0	20.0	24.24		24.14	0.0	24.5
			80	80	19.56		19.27	0.0	20.0	23.23		22.97	0.5	24.0
			160	0	19.58		19.40	0.0	20.0	23.21		23.02	0.5	24.0
		QPSK	1	1	19.88		19.51	0.0	20.0	24.44		24.16	0.0	24.5
			1	79	19.57		19.39	0.0	20.0	24.25		24.09	0.0	24.5
			1	158	19.56		19.47	0.0	20.0	24.15		23.95	0.0	24.5
			80	0	19.64		19.36	0.0	20.0	23.32		23.02	1.0	23.5
			80	40	19.60		19.49	0.0	20.0	24.27		24.11	0.0	24.5
			80	80	19.55		19.25	0.0	20.0	23.19		23.01	1.0	23.5
			160	0	19.55		19.38	0.0	20.0	23.20		23.05	1.0	23.5
16QAM	1	1	19.70		19.40	0.0	20.0	23.26		23.03	1.0	23.5		
	1	79	19.63		19.37	0.0	20.0	23.12		22.86	1.0	23.5		
	1	158	19.49		19.33	0.0	20.0	22.97		22.85	1.0	23.5		
64QAM	1	1	19.89		19.58	0.0	20.0	21.98		21.74	2.5	22.0		
256QAM	1	1	19.19		18.89	0.0	20.0	19.34		19.05	4.5	20.0		
CP-OFDM	QPSK	1	1	19.86		19.56	0.0	20.0	22.98		22.71	1.5	23.0	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.85		19.52	0.0	20.0	24.40		24.15	0.0	24.5
			1	66	19.64		19.43	0.0	20.0	24.24		24.02	0.0	24.5
			1	131	19.49		19.40	0.0	20.0	24.16		23.91	0.0	24.5
			64	0	19.58		19.24	0.0	20.0	23.26		22.93	0.5	24.0
			64	34	19.61		19.44	0.0	20.0	24.22		24.08	0.0	24.5
			64	69	19.55		19.28	0.0	20.0	23.18		22.96	0.5	24.0
			128	0	19.51		19.34	0.0	20.0	23.17		22.95	0.5	24.0
		QPSK	1	1	19.82		19.51	0.0	20.0	24.46		24.12	0.0	24.5
			1	66	19.62		19.42	0.0	20.0	24.26		24.05	0.0	24.5
			1	131	19.48		19.39	0.0	20.0	24.16		23.89	0.0	24.5
			64	0	19.59		19.24	0.0	20.0	23.22		22.93	1.0	23.5
			64	34	19.60		19.43	0.0	20.0	24.27		24.07	0.0	24.5
			64	69	19.55		19.28	0.0	20.0	23.23		22.96	1.0	23.5
			128	0	19.50		19.34	0.0	20.0	23.14		23.02	1.0	23.5
16QAM	1	1	19.67		19.42	0.0	20.0	23.29		23.01	1.0	23.5		
	1	66	19.49		19.28	0.0	20.0	23.07		22.87	1.0	23.5		
	1	131	19.52		19.25	0.0	20.0	22.97		22.79	1.0	23.5		
64QAM	1	1	19.85		19.51	0.0	20.0	21.98		21.69	2.5	22.0		
256QAM	1	1	19.16		18.86	0.0	20.0	19.30		19.04	4.5	20.0		
CP-OFDM	QPSK	1	1	19.82		19.55	0.0	20.0	22.98		22.69	1.5	23.0	

NR Band n66 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000			344000	349000	354000		
					1720.0 MHz	1745.0 MHz	1770.0 MHz			1720.0 MHz	1745.0 MHz	1770.0 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.62	19.41	19.17	0.0	20.0	24.25	24.03	23.87	0.0	24.5
			1	52	19.54	19.37	19.08	0.0	20.0	24.17	23.99	23.81	0.0	24.5
			1	104	19.43	19.31	19.14	0.0	20.0	24.12	23.94	23.77	0.0	24.5
			50	0	19.53	19.35	19.15	0.0	20.0	23.17	22.99	22.83	0.5	24.0
			50	28	19.54	19.35	19.15	0.0	20.0	24.23	24.01	23.85	0.0	24.5
			50	56	19.38	19.30	19.10	0.0	20.0	23.09	22.99	22.82	0.5	24.0
			100	0	19.57	19.35	19.20	0.0	20.0	23.26	23.07	22.92	0.5	24.0
		QPSK	1	1	19.58	19.43	19.18	0.0	20.0	24.26	24.07	23.87	0.0	24.5
			1	52	19.53	19.34	19.09	0.0	20.0	24.19	24.05	23.80	0.0	24.5
			1	104	19.52	19.29	19.14	0.0	20.0	24.17	23.99	23.76	0.0	24.5
			50	0	19.53	19.36	19.15	0.0	20.0	23.23	23.06	22.82	1.0	23.5
			50	28	19.53	19.34	19.15	0.0	20.0	24.21	24.00	23.85	0.0	24.5
			50	56	19.39	19.29	19.11	0.0	20.0	23.07	22.99	22.81	1.0	23.5
			100	0	19.57	19.36	19.20	0.0	20.0	23.25	23.08	22.90	1.0	23.5
16QAM	1	1	19.51	19.28	19.12	0.0	20.0	23.07	22.88	22.69	1.0	23.5		
	1	52	19.44	19.26	19.16	0.0	20.0	23.03	22.84	22.53	1.0	23.5		
	1	104	19.40	19.17	19.00	0.0	20.0	22.92	22.80	22.61	1.0	23.5		
64QAM	1	1	19.64	19.46	19.25	0.0	20.0	21.85	21.68	21.48	2.5	22.0		
256QAM	1	1	19.01	18.77	18.59	0.0	20.0	19.18	18.99	18.73	4.5	20.0		
CP-OFDM	QPSK	1	1	19.70	19.48	19.36	0.0	20.0	22.76	22.74	22.45	1.5	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500			343500	349000	354500		
					1717.5 MHz	1745.0 MHz	1772.5 MHz			1717.5 MHz	1745.0 MHz	1772.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.75	19.52	19.23	0.0	20.0	24.37	24.13	23.90	0.0	24.5
			1	39	19.63	19.32	19.10	0.0	20.0	24.26	23.98	23.82	0.0	24.5
			1	77	19.52	19.41	19.20	0.0	20.0	24.18	24.02	23.83	0.0	24.5
			36	0	19.51	19.29	19.08	0.0	20.0	23.23	23.04	22.78	0.5	24.0
			36	21	19.58	19.36	19.09	0.0	20.0	24.35	23.98	23.85	0.0	24.5
			36	43	19.45	19.34	19.12	0.0	20.0	23.12	22.99	22.78	0.5	24.0
			75	0	19.52	19.30	19.06	0.0	20.0	23.23	22.99	22.71	0.5	24.0
		QPSK	1	1	19.80	19.51	19.26	0.0	20.0	24.42	24.15	23.91	0.0	24.5
			1	39	19.63	19.39	19.10	0.0	20.0	24.28	24.03	23.80	0.0	24.5
			1	77	19.52	19.41	19.20	0.0	20.0	24.17	24.05	23.82	0.0	24.5
			36	0	19.52	19.35	19.08	0.0	20.0	23.28	23.02	22.78	1.0	23.5
			36	21	19.58	19.36	19.09	0.0	20.0	24.34	24.03	23.85	0.0	24.5
			36	43	19.43	19.32	19.12	0.0	20.0	23.18	23.04	22.78	1.0	23.5
			75	0	19.52	19.30	19.04	0.0	20.0	23.20	22.98	22.72	1.0	23.5
		16QAM	1	1	19.65	19.42	19.10	0.0	20.0	23.22	22.98	22.75	1.0	23.5
			1	39	19.52	19.24	19.13	0.0	20.0	23.10	22.81	22.61	1.0	23.5
			1	77	19.45	19.27	19.06	0.0	20.0	23.04	22.85	22.61	1.0	23.5
		64QAM	1	1	19.81	19.60	19.31	0.0	20.0	21.95	21.76	21.47	2.5	22.0
		256QAM	1	1	19.09	18.91	18.59	0.0	20.0	19.27	19.03	18.80	4.5	20.0
CP-OFDM	QPSK	1	1	19.80	19.63	19.30	0.0	20.0	22.97	22.81	22.53	1.5	23.0	

NR Band n66 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000			343000	349000	355000		
					1715.0 MHz	1745.0 MHz	1775.0 MHz			1715.0 MHz	1745.0 MHz	1775.0 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.71	19.45	19.32	0.0	20.0	24.31	24.04	23.86	0.0	24.5
			1	25	19.69	19.35	19.30	0.0	20.0	24.30	24.01	23.84	0.0	24.5
			1	50	19.59	19.21	19.18	0.0	20.0	24.18	23.93	23.77	0.0	24.5
			25	0	19.67	19.29	19.23	0.0	20.0	23.27	23.00	22.87	0.5	24.0
			25	13	19.72	19.37	19.28	0.0	20.0	24.33	24.00	23.90	0.0	24.5
			25	27	19.54	19.26	19.14	0.0	20.0	23.22	22.96	22.83	0.5	24.0
			50	0	19.59	19.33	19.14	0.0	20.0	23.26	22.94	22.87	0.5	24.0
		QPSK	1	1	19.75	19.33	19.22	0.0	20.0	24.34	24.01	23.89	0.0	24.5
			1	25	19.69	19.34	19.29	0.0	20.0	24.31	23.99	23.87	0.0	24.5
			1	50	19.64	19.27	19.17	0.0	20.0	24.18	23.94	23.79	0.0	24.5
			25	0	19.66	19.30	19.21	0.0	20.0	23.32	22.98	22.85	1.0	23.5
			25	13	19.71	19.37	19.31	0.0	20.0	24.35	24.05	23.90	0.0	24.5
			25	27	19.63	19.25	19.13	0.0	20.0	23.25	22.97	22.82	1.0	23.5
			50	0	19.58	19.33	19.13	0.0	20.0	23.25	22.93	22.87	1.0	23.5
16QAM	1	1	19.60	19.36	19.25	0.0	20.0	23.22	22.86	22.66	1.0	23.5		
	1	25	19.58	19.25	19.13	0.0	20.0	23.20	22.82	22.63	1.0	23.5		
	1	50	19.48	19.22	19.06	0.0	20.0	23.10	22.76	22.58	1.0	23.5		
64QAM	1	1	19.78	19.49	19.32	0.0	20.0	21.93	21.68	21.57	2.5	22.0		
256QAM	1	1	19.06	18.74	18.63	0.0	20.0	19.24	18.90	18.77	4.5	20.0		
CP-OFDM	QPSK	1	1	19.75	19.57	19.42	0.0	20.0	22.92	22.60	22.41	1.5	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500			342500	349000	355500		
					1712.5 MHz	1745.0 MHz	1777.5 MHz			1712.5 MHz	1745.0 MHz	1777.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.54	19.30	19.17	0.0	20.0	24.22	23.91	23.74	0.0	24.5
			1	12	19.65	19.37	19.23	0.0	20.0	24.34	24.03	23.85	0.0	24.5
			1	23	19.50	19.26	19.06	0.0	20.0	24.19	23.89	23.74	0.0	24.5
			12	0	19.57	19.27	19.13	0.0	20.0	23.27	22.95	22.73	0.5	24.0
			12	6	19.67	19.38	19.21	0.0	20.0	24.29	23.99	23.82	0.0	24.5
			12	13	19.54	19.26	19.09	0.0	20.0	23.21	22.88	22.70	0.5	24.0
			25	0	19.53	19.23	19.13	0.0	20.0	23.25	22.93	22.74	0.5	24.0
		QPSK	1	1	19.60	19.31	19.15	0.0	20.0	24.22	23.95	23.77	0.0	24.5
			1	12	19.66	19.37	19.23	0.0	20.0	24.31	24.07	23.87	0.0	24.5
			1	23	19.49	19.24	19.10	0.0	20.0	24.21	23.87	23.73	0.0	24.5
			12	0	19.55	19.26	19.12	0.0	20.0	23.22	22.92	22.74	1.0	23.5
			12	6	19.69	19.41	19.20	0.0	20.0	24.27	23.97	23.80	0.0	24.5
			12	13	19.52	19.28	19.08	0.0	20.0	23.19	22.96	22.75	1.0	23.5
			25	0	19.52	19.23	19.12	0.0	20.0	23.22	22.93	22.79	1.0	23.5
		16QAM	1	1	19.53	19.31	19.09	0.0	20.0	23.18	22.82	22.59	1.0	23.5
			1	12	19.54	19.27	19.13	0.0	20.0	23.17	22.86	22.60	1.0	23.5
			1	23	19.49	19.19	19.11	0.0	20.0	23.15	22.81	22.62	1.0	23.5
		64QAM	1	1	19.69	19.45	19.29	0.0	20.0	21.87	21.63	21.49	2.5	22.0
		256QAM	1	1	19.06	18.74	18.60	0.0	20.0	19.22	18.96	18.73	4.5	20.0
CP-OFDM	QPSK	1	1	19.72	19.53	19.34	0.0	20.0	22.89	22.60	22.45	1.5	23.0	

NR Band n66 (Ant E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)					
					DSI = 0, 1					DSI = 2, 3					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	
					346000	349000	352000			346000	349000	352000			
1730.00 MHz	1745.00 MHz	1760.00 MHz	1730.00 MHz	1745.00 MHz	1760.00 MHz										
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.82		0.0	21.0		21.58		0.0	22.5	
			1	107		19.59		0.0	21.0		21.22		0.0	22.5	
			1	214		19.75		0.0	21.0		21.46		0.0	22.5	
			108	0		19.65		0.0	21.0		21.30		0.0	22.5	
			108	54		19.67		0.0	21.0		21.36		0.0	22.5	
			108	108		19.63		0.0	21.0		21.28		0.0	22.5	
			216	0		19.85		0.0	21.0		21.48		0.0	22.5	
		QPSK	1	1		19.84		0.0	21.0		21.57		0.0	22.5	
			1	107		19.61		0.0	21.0		21.31		0.0	22.5	
			1	214		19.75		0.0	21.0		21.52		0.0	22.5	
			108	0		19.66		0.0	21.0		21.32		0.0	22.5	
			108	54		19.71		0.0	21.0		21.36		0.0	22.5	
			108	108		19.63		0.0	21.0		21.30		0.0	22.5	
			216	0		19.77		0.0	21.0		21.49		0.0	22.5	
		16QAM	1	1		19.71		0.0	21.0		21.51		0.0	22.5	
			1	107		19.59		0.0	21.0		21.32		0.0	22.5	
			1	214		19.65		0.0	21.0		21.38		0.0	22.5	
		64QAM	1	1		19.87		0.0	21.0		20.87		1.0	21.5	
		256QAM	1	1		17.92		1.5	19.5		18.15		3.0	19.5	
		CP-OFDM	QPSK	1	1		19.90		0.0	21.0		21.63		0.0	22.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					345500	349000	352500	345500			349000	352500			
					1727.50 MHz	1745.00 MHz	1762.50 MHz	1727.50 MHz			1745.00 MHz	1762.50 MHz			
35 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.88		19.49	0.0	21.0	21.37		21.18	0.0	22.5	
			1	93	19.99		19.66	0.0	21.0	21.47		21.41	0.0	22.5	
			1	186	19.70		19.62	0.0	21.0	21.23		21.28	0.0	22.5	
			90	0	19.95		19.54	0.0	21.0	21.41		21.28	0.0	22.5	
			90	49	19.94		19.68	0.0	21.0	21.39		21.41	0.0	22.5	
			90	98	19.83		19.65	0.0	21.0	21.31		21.31	0.0	22.5	
			180	0	19.82		19.58	0.0	21.0	21.35		21.31	0.0	22.5	
		QPSK	1	1	19.86		19.55	0.0	21.0	21.38		21.24	0.0	22.5	
			1	93	19.97		19.62	0.0	21.0	21.50		21.38	0.0	22.5	
			1	186	19.68		19.68	0.0	21.0	21.24		21.25	0.0	22.5	
			90	0	19.91		19.57	0.0	21.0	21.40		21.26	0.0	22.5	
			90	49	19.92		19.68	0.0	21.0	21.43		21.39	0.0	22.5	
			90	98	19.80		19.63	0.0	21.0	21.29		21.36	0.0	22.5	
			180	0	19.85		19.59	0.0	21.0	21.37		21.29	0.0	22.5	
		16QAM	1	1	19.83		19.50	0.0	21.0	21.29		21.24	0.0	22.5	
			1	93	19.86		19.60	0.0	21.0	21.35		21.29	0.0	22.5	
			1	186	19.70		19.65	0.0	21.0	21.23		21.30	0.0	22.5	
		64QAM	1	1	19.94		19.66	0.0	21.0	20.74		20.58	1.0	21.5	
		256QAM	1	1	18.01		17.74	1.5	19.5	18.03		17.86	3.0	19.5	
		CP-OFDM	QPSK	1	1	20.01		19.80	0.0	21.0	21.55		21.44	0.0	22.5

NR Band n66 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000	349000	353000			345000	349000	353000		
					1725.00 MHz	1745.00 MHz	1765.00 MHz			1725.00 MHz	1745.00 MHz	1765.00 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.97		19.67	0.0	21.0	21.58		21.45	0.0	22.5
			1	79	19.90		19.74	0.0	21.0	21.65		21.50	0.0	22.5
			1	158	19.86		19.76	0.0	21.0	21.50		21.46	0.0	22.5
			80	0	19.86		19.61	0.0	21.0	21.56		21.42	0.0	22.5
			80	40	19.86		19.68	0.0	21.0	21.50		21.33	0.0	22.5
			80	80	19.77		19.62	0.0	21.0	21.62		21.43	0.0	22.5
			160	0	19.78		19.58	0.0	21.0	21.55		21.39	0.0	22.5
		QPSK	1	1	19.92		19.69	0.0	21.0	21.49		21.45	0.0	22.5
			1	79	19.93		19.78	0.0	21.0	21.62		21.55	0.0	22.5
			1	158	19.82		19.84	0.0	21.0	21.47		21.47	0.0	22.5
			80	0	19.88		19.59	0.0	21.0	21.48		21.37	0.0	22.5
			80	40	19.89		19.68	0.0	21.0	21.54		21.46	0.0	22.5
			80	80	19.85		19.67	0.0	21.0	21.45		21.43	0.0	22.5
			160	0	19.75		19.66	0.0	21.0	21.50		21.38	0.0	22.5
16QAM	1	1	19.81		19.58	0.0	21.0	21.41		21.35	0.0	22.5		
	1	79	19.83		19.67	0.0	21.0	21.50		21.41	0.0	22.5		
	1	158	19.73		19.72	0.0	21.0	21.40		21.38	0.0	22.5		
64QAM	1	1	19.97		19.77	0.0	21.0	20.79		20.73	1.0	21.5		
256QAM	1	1	18.06		17.85	1.5	19.5	18.14		18.09	3.0	19.5		
CP-OFDM	QPSK	1	1	20.11		19.75	0.0	21.0	21.59		21.41	0.0	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500			344500	349000	353500		
					1722.50 MHz	1745.00 MHz	1767.50 MHz			1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.81		19.82	0.0	21.0	21.55		21.55	0.0	22.5
			1	66	19.90		19.86	0.0	21.0	21.57		21.56	0.0	22.5
			1	131	19.73		19.87	0.0	21.0	21.47		21.49	0.0	22.5
			64	0	19.78		19.67	0.0	21.0	21.39		21.34	0.0	22.5
			64	34	19.91		19.84	0.0	21.0	21.51		21.48	0.0	22.5
			64	69	19.68		19.71	0.0	21.0	21.32		21.43	0.0	22.5
			128	0	19.80		19.72	0.0	21.0	21.46		21.37	0.0	22.5
		QPSK	1	1	19.95		19.82	0.0	21.0	21.53		21.55	0.0	22.5
			1	66	19.94		19.85	0.0	21.0	21.55		21.57	0.0	22.5
			1	131	19.77		19.89	0.0	21.0	21.53		21.49	0.0	22.5
			64	0	19.78		19.69	0.0	21.0	21.39		21.34	0.0	22.5
			64	34	19.87		19.80	0.0	21.0	21.49		21.45	0.0	22.5
			64	69	19.76		19.75	0.0	21.0	21.37		21.42	0.0	22.5
			128	0	19.75		19.73	0.0	21.0	21.45		21.42	0.0	22.5
16QAM	1	1	19.78		19.73	0.0	21.0	21.51		21.34	0.0	22.5		
	1	66	19.78		19.69	0.0	21.0	21.42		21.38	0.0	22.5		
	1	131	19.61		19.74	0.0	21.0	21.38		21.34	0.0	22.5		
64QAM	1	1	19.92		19.87	0.0	21.0	20.78		20.80	1.0	21.5		
256QAM	1	1	17.98		17.96	1.5	19.5	18.16		18.14	3.0	19.5		
CP-OFDM	QPSK	1	1	20.05		19.93	0.0	21.0	21.63		21.55	0.0	22.5	

NR Band n66 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000			344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz			1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.66	19.72	19.66	0.0	21.0	21.46	21.29	21.31	0.0	22.5
			1	52	19.64	19.60	19.72	0.0	21.0	21.35	21.31	21.43	0.0	22.5
			1	104	19.54	19.66	19.74	0.0	21.0	21.26	21.27	21.42	0.0	22.5
			50	0	19.70	19.69	19.59	0.0	21.0	21.33	21.26	21.30	0.0	22.5
			50	28	19.75	19.68	19.76	0.0	21.0	21.37	21.28	21.41	0.0	22.5
			50	56	19.68	19.62	19.63	0.0	21.0	21.31	21.25	21.36	0.0	22.5
			100	0	19.73	19.80	19.74	0.0	21.0	21.45	21.37	21.42	0.0	22.5
		QPSK	1	1	19.67	19.70	19.66	0.0	21.0	21.47	21.34	21.36	0.0	22.5
			1	52	19.69	19.70	19.73	0.0	21.0	21.39	21.35	21.41	0.0	22.5
			1	104	19.52	19.71	19.75	0.0	21.0	21.20	21.30	21.42	0.0	22.5
			50	0	19.74	19.68	19.64	0.0	21.0	21.32	21.33	21.32	0.0	22.5
			50	28	19.74	19.73	19.71	0.0	21.0	21.36	21.32	21.40	0.0	22.5
			50	56	19.70	19.60	19.64	0.0	21.0	21.29	21.26	21.34	0.0	22.5
			100	0	19.70	19.80	19.73	0.0	21.0	21.46	21.41	21.42	0.0	22.5
16QAM	1	1	19.64	19.63	19.56	0.0	21.0	21.33	21.26	21.17	0.0	22.5		
	1	52	19.61	19.57	19.62	0.0	21.0	21.22	21.26	21.32	0.0	22.5		
	1	104	19.58	19.53	19.61	0.0	21.0	21.16	21.25	21.33	0.0	22.5		
64QAM	1	1	19.80	19.74	19.75	0.0	21.0	20.76	20.61	20.59	1.0	21.5		
256QAM	1	1	17.81	17.79	17.72	1.5	19.5	18.03	17.95	17.94	3.0	19.5		
CP-OFDM	QPSK	1	1	19.88	19.80	19.71	0.0	21.0	21.52	21.45	21.41	0.0	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500			343500	349000	354500		
					1717.50 MHz	1745.00 MHz	1772.50 MHz			1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.87	19.88	19.74	0.0	21.0	21.56	21.47	21.48	0.0	22.5
			1	39	19.71	19.56	19.72	0.0	21.0	21.48	21.34	21.43	0.0	22.5
			1	77	19.80	19.75	19.77	0.0	21.0	21.43	21.43	21.43	0.0	22.5
			36	0	19.72	19.66	19.63	0.0	21.0	21.35	21.31	21.27	0.0	22.5
			36	21	19.72	19.67	19.80	0.0	21.0	21.52	21.39	21.50	0.0	22.5
			36	43	19.66	19.63	19.63	0.0	21.0	21.30	21.25	21.31	0.0	22.5
			75	0	19.61	19.73	19.59	0.0	21.0	21.37	21.30	21.32	0.0	22.5
		QPSK	1	1	19.80	19.87	19.68	0.0	21.0	21.55	21.49	21.45	0.0	22.5
			1	39	19.65	19.74	19.70	0.0	21.0	21.47	21.27	21.41	0.0	22.5
			1	77	19.75	19.69	19.78	0.0	21.0	21.37	21.41	21.44	0.0	22.5
			36	0	19.72	19.71	19.59	0.0	21.0	21.35	21.37	21.28	0.0	22.5
			36	21	19.75	19.68	19.77	0.0	21.0	21.52	21.40	21.46	0.0	22.5
			36	43	19.67	19.62	19.60	0.0	21.0	21.27	21.25	21.36	0.0	22.5
			75	0	19.63	19.72	19.65	0.0	21.0	21.34	21.32	21.32	0.0	22.5
		16QAM	1	1	19.74	19.71	19.70	0.0	21.0	21.54	21.34	21.37	0.0	22.5
			1	39	19.69	19.57	19.62	0.0	21.0	21.42	21.28	21.36	0.0	22.5
			1	77	19.76	19.60	19.62	0.0	21.0	21.30	21.24	21.38	0.0	22.5
		64QAM	1	1	19.90	19.87	19.78	0.0	21.0	20.88	20.75	20.72	1.0	21.5
		256QAM	1	1	17.98	17.93	17.83	1.5	19.5	18.18	18.06	17.99	3.0	19.5
CP-OFDM	QPSK	1	1	20.03	19.89	19.92	0.0	21.0	21.71	21.53	21.55	0.0	22.5	

NR Band n66 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000			343000	349000	355000		
					1715.00 MHz	1745.00 MHz	1775.00 MHz			1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.82	19.59	19.77	0.0	21.0	21.40	21.27	21.40	0.0	22.5
			1	25	19.84	19.57	19.77	0.0	21.0	21.35	21.30	21.43	0.0	22.5
			1	50	19.65	19.55	19.72	0.0	21.0	21.34	21.28	21.39	0.0	22.5
			25	0	19.79	19.56	19.64	0.0	21.0	21.35	21.17	21.28	0.0	22.5
			25	13	19.87	19.58	19.78	0.0	21.0	21.40	21.32	21.44	0.0	22.5
			25	27	19.82	19.58	19.73	0.0	21.0	21.36	21.23	21.34	0.0	22.5
			50	0	19.77	19.61	19.65	0.0	21.0	21.30	21.21	21.33	0.0	22.5
		QPSK	1	1	19.85	19.62	19.73	0.0	21.0	21.46	21.27	21.40	0.0	22.5
			1	25	19.81	19.55	19.76	0.0	21.0	21.39	21.31	21.39	0.0	22.5
			1	50	19.67	19.57	19.72	0.0	21.0	21.39	21.24	21.39	0.0	22.5
			25	0	19.73	19.55	19.64	0.0	21.0	21.40	21.16	21.33	0.0	22.5
			25	13	19.88	19.58	19.80	0.0	21.0	21.37	21.28	21.45	0.0	22.5
			25	27	19.81	19.57	19.73	0.0	21.0	21.36	21.22	21.39	0.0	22.5
			50	0	19.76	19.60	19.65	0.0	21.0	21.30	21.22	21.33	0.0	22.5
16QAM	1	1	19.68	19.52	19.61	0.0	21.0	21.36	21.16	21.35	0.0	22.5		
	1	25	19.76	19.60	19.64	0.0	21.0	21.33	21.18	21.33	0.0	22.5		
	1	50	19.64	19.53	19.61	0.0	21.0	21.32	21.19	21.32	0.0	22.5		
64QAM	1	1	19.83	19.63	19.77	0.0	21.0	20.74	20.52	20.67	1.0	21.5		
256QAM	1	1	17.87	17.69	17.86	1.5	19.5	18.09	17.87	18.04	3.0	19.5		
CP-OFDM	QPSK	1	1	19.89	19.69	19.79	0.0	21.0	21.57	21.36	21.52	0.0	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500			342500	349000	355500		
					1712.50 MHz	1745.00 MHz	1777.50 MHz			1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.65	19.55	19.66	0.0	21.0	21.37	21.25	21.33	0.0	22.5
			1	12	19.77	19.63	19.74	0.0	21.0	21.45	21.29	21.51	0.0	22.5
			1	23	19.66	19.59	19.62	0.0	21.0	21.32	21.22	21.42	0.0	22.5
			12	0	19.66	19.60	19.69	0.0	21.0	21.42	21.18	21.37	0.0	22.5
			12	6	19.72	19.62	19.73	0.0	21.0	21.47	21.35	21.51	0.0	22.5
			12	13	19.63	19.55	19.63	0.0	21.0	21.27	21.22	21.37	0.0	22.5
			25	0	19.66	19.55	19.64	0.0	21.0	21.41	21.25	21.36	0.0	22.5
		QPSK	1	1	19.67	19.54	19.67	0.0	21.0	21.38	21.22	21.42	0.0	22.5
			1	12	19.81	19.60	19.76	0.0	21.0	21.50	21.32	21.52	0.0	22.5
			1	23	19.71	19.56	19.63	0.0	21.0	21.26	21.25	21.40	0.0	22.5
			12	0	19.65	19.56	19.68	0.0	21.0	21.38	21.26	21.37	0.0	22.5
			12	6	19.78	19.58	19.74	0.0	21.0	21.53	21.36	21.48	0.0	22.5
			12	13	19.69	19.58	19.63	0.0	21.0	21.31	21.24	21.35	0.0	22.5
			25	0	19.65	19.59	19.64	0.0	21.0	21.40	21.24	21.37	0.0	22.5
		16QAM	1	1	19.59	19.52	19.64	0.0	21.0	21.43	21.24	21.37	0.0	22.5
			1	12	19.63	19.53	19.62	0.0	21.0	21.39	21.25	21.37	0.0	22.5
			1	23	19.65	19.55	19.61	0.0	21.0	21.31	21.26	21.37	0.0	22.5
		64QAM	1	1	19.79	19.71	19.75	0.0	21.0	20.79	20.57	20.76	1.0	21.5
		256QAM	1	1	17.85	17.78	17.86	1.5	19.5	18.08	17.96	18.06	3.0	19.5
CP-OFDM	QPSK	1	1	19.90	19.77	19.81	0.0	21.0	21.56	21.46	21.47	0.0	22.5	

NR Band n25 (Ant B) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)					
					DSI = 0					DSI = 1					DSI = 2, 3					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	
					374000	376500	379000			374000	376500	379000			374000	376500	379000			
1870.0 MHz	1882.5 MHz	1895.0 MHz	1870.0 MHz	1882.5 MHz	1895.0 MHz	1870.0 MHz	1882.5 MHz	1895.0 MHz												
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.30		0.0	19.0		19.12		0.0	20.0		23.06		0.0	24.0	
			1	107		18.06		0.0	19.0		19.02		0.0	20.0		22.58		0.0	24.0	
			1	214		18.21		0.0	19.0		19.23		0.0	20.0		22.92		0.0	24.0	
			108	0		18.10		0.0	19.0		18.93		0.0	20.0		21.83		0.5	23.5	
			108	54		18.14		0.0	19.0		19.08		0.0	20.0		22.82		0.0	24.0	
			108	108		18.10		0.0	19.0		19.05		0.0	20.0		21.77		0.5	23.5	
			216	0		18.15		0.0	19.0		19.13		0.0	20.0		21.80		0.5	23.5	
		QPSK	1	1		18.27		0.0	19.0		19.23		0.0	20.0		23.06		0.0	24.0	
			1	107		18.10		0.0	19.0		19.01		0.0	20.0		22.63		0.0	24.0	
			1	214		18.24		0.0	19.0		19.17		0.0	20.0		22.93		0.0	24.0	
			108	0		18.07		0.0	19.0		18.91		0.0	20.0		21.86		1.0	23.0	
			108	54		18.17		0.0	19.0		19.07		0.0	20.0		22.83		0.0	24.0	
			108	108		18.08		0.0	19.0		19.03		0.0	20.0		21.81		1.0	23.0	
			216	0		18.17		0.0	19.0		19.13		0.0	20.0		21.82		1.0	23.0	
		16QAM	1	1		18.19		0.0	19.0		19.05		0.0	20.0		21.94		1.0	23.0	
			1	107		18.07		0.0	19.0		19.05		0.0	20.0		21.61		1.0	23.0	
			1	214		18.09		0.0	19.0		19.18		0.0	20.0		21.80		1.0	23.0	
		64QAM	1	1		18.30		0.0	19.0		19.18		0.0	20.0		20.69		2.5	21.5	
			1	1		17.58		0.0	19.0		17.95		0.5	19.5		17.88		4.5	19.5	
		CP-OFDM	QPSK	1	1		18.40		0.0	19.0		19.21		0.0	20.0		21.58		1.5	22.5
1	1				18.09		0.0	19.0		19.19		0.0	20.0		23.08		0.0	24.0		
35 MHz	DFT-s-OFDM	π/2 BPSK	1	93		18.16		0.0	19.0		19.33		0.0	20.0		23.20		0.0	24.0	
			1	186		18.09		0.0	19.0		19.36		0.0	20.0		23.27		0.0	24.0	
			90	0		18.15		0.0	19.0		19.26		0.0	20.0		22.10		0.5	23.5	
			90	49		18.14		0.0	19.0		19.25		0.0	20.0		23.25		0.0	24.0	
			90	98		18.07		0.0	19.0		19.25		0.0	20.0		22.24		0.5	23.5	
			180	0		18.03		0.0	19.0		19.23		0.0	20.0		22.18		0.5	23.5	
			QPSK	1	1		18.18		0.0	19.0		19.17		0.0	20.0		23.09		0.0	24.0
		1		93		18.17		0.0	19.0		19.35		0.0	20.0		23.23		0.0	24.0	
		1		186		18.12		0.0	19.0		19.41		0.0	20.0		23.29		0.0	24.0	
		90		0		18.20		0.0	19.0		19.29		0.0	20.0		22.13		1.0	23.0	
		90		49		18.19		0.0	19.0		19.31		0.0	20.0		23.27		0.0	24.0	
		90		98		18.08		0.0	19.0		19.30		0.0	20.0		22.20		1.0	23.0	
		180		0		18.07		0.0	19.0		19.20		0.0	20.0		22.13		1.0	23.0	
		16QAM	1	1		18.12		0.0	19.0		19.21		0.0	20.0		22.11		1.0	23.0	
			1	93		18.05		0.0	19.0		19.26		0.0	20.0		22.02		1.0	23.0	
			1	186		18.13		0.0	19.0		19.38		0.0	20.0		22.19		1.0	23.0	
		64QAM	1	1		18.24		0.0	19.0		19.36		0.0	20.0		20.83		2.5	21.5	
			1	1		17.54		0.0	19.0		18.14		0.5	19.5		18.00		4.5	19.5	
		CP-OFDM	QPSK	1	1		18.37		0.0	19.0		19.45		0.0	20.0		21.80		1.5	22.5

NR Band n25 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					373000	376500	380000			373000	376500	380000			373000	376500	380000		
					1865.0 MHz	1882.5 MHz	1900.0 MHz			1865.0 MHz	1882.5 MHz	1900.0 MHz			1865.0 MHz	1882.5 MHz	1900.0 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.40		18.21	0.0	19.0	19.36		19.47	0.0	20.0	23.21		23.21	0.0	24.0
			1	79	18.31		18.18	0.0	19.0	19.31		19.53	0.0	20.0	23.26		23.33	0.0	24.0
			1	158	18.33		18.19	0.0	19.0	19.37		19.60	0.0	20.0	23.31		23.34	0.0	24.0
			80	0	18.22		17.91	0.0	19.0	19.19		19.32	0.0	20.0	22.18		22.24	0.5	23.5
			80	40	18.31		18.02	0.0	19.0	19.33		19.47	0.0	20.0	23.23		23.38	0.0	24.0
			80	80	18.17		18.09	0.0	19.0	19.22		19.52	0.0	20.0	22.20		22.34	0.5	23.5
		160	0	18.19		18.08	0.0	19.0	19.27		19.43	0.0	20.0	22.19		22.30	0.5	23.5	
		QPSK	1	1	18.27		18.33	0.0	19.0	19.41		19.50	0.0	20.0	23.19		23.31	0.0	24.0
			1	79	18.29		18.19	0.0	19.0	19.37		19.49	0.0	20.0	23.27		23.39	0.0	24.0
			1	158	18.32		18.22	0.0	19.0	19.44		19.56	0.0	20.0	23.32		23.41	0.0	24.0
			80	0	18.21		18.06	0.0	19.0	19.19		19.38	0.0	20.0	22.13		22.30	1.0	23.0
			80	40	18.29		18.17	0.0	19.0	19.37		19.46	0.0	20.0	23.26		23.44	0.0	24.0
			80	80	18.16		18.16	0.0	19.0	19.22		19.50	0.0	20.0	22.18		22.45	1.0	23.0
		16QAM	1	1	18.32		18.14	0.0	19.0	19.25		19.41	0.0	20.0	22.02		22.12	1.0	23.0
			1	79	18.19		18.09	0.0	19.0	19.31		19.46	0.0	20.0	22.10		22.27	1.0	23.0
1	158		18.19		18.06	0.0	19.0	19.36		19.47	0.0	20.0	22.14		22.27	1.0	23.0		
64QAM	1	1	18.37		18.29	0.0	19.0	19.44		19.55	0.0	20.0	20.84		21.01	2.5	21.5		
256QAM	1	1	17.69		17.61	0.0	19.0	18.26		18.40	0.5	19.5	18.07		18.22	4.5	19.5		
CP-OFDM	QPSK	1	1	18.48		18.41	0.0	19.0	19.37		19.59	0.0	20.0	21.80		22.05	1.5	22.5	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.31		18.24	0.0	19.0	19.37		19.52	0.0	20.0	23.15		23.34	0.0	24.0
			1	66	18.12		18.16	0.0	19.0	19.29		19.50	0.0	20.0	23.09		23.43	0.0	24.0
			1	131	18.28		18.27	0.0	19.0	19.40		19.59	0.0	20.0	23.14		23.46	0.0	24.0
			64	0	18.13		18.14	0.0	19.0	19.11		19.38	0.0	20.0	22.11		22.37	0.5	23.5
			64	34	18.16		18.18	0.0	19.0	19.28		19.44	0.0	20.0	23.07		23.45	0.0	24.0
			64	69	18.08		18.12	0.0	19.0	19.17		19.46	0.0	20.0	22.09		22.47	0.5	23.5
		128	0	18.17		18.10	0.0	19.0	19.23		19.39	0.0	20.0	22.00		22.29	0.5	23.5	
		QPSK	1	1	18.36		18.25	0.0	19.0	19.33		19.54	0.0	20.0	23.16		23.37	0.0	24.0
			1	66	18.30		18.21	0.0	19.0	19.29		19.49	0.0	20.0	23.06		23.49	0.0	24.0
			1	131	18.29		18.23	0.0	19.0	19.39		19.64	0.0	20.0	23.18		23.39	0.0	24.0
			64	0	18.13		18.15	0.0	19.0	19.11		19.46	0.0	20.0	22.08		22.38	1.0	23.0
			64	34	18.15		18.16	0.0	19.0	19.32		19.49	0.0	20.0	23.12		23.46	0.0	24.0
			64	69	18.07		18.11	0.0	19.0	19.17		19.50	0.0	20.0	22.07		22.46	1.0	23.0
		128	0	18.17		18.14	0.0	19.0	19.25		19.43	0.0	20.0	22.03		22.34	1.0	23.0	
		16QAM	1	1	18.22		18.14	0.0	19.0	19.23		19.39	0.0	20.0	22.00		22.18	1.0	23.0
1	66		18.19		18.04	0.0	19.0	19.21		19.44	0.0	20.0	22.00		22.29	1.0	23.0		
1	131		18.20		18.15	0.0	19.0	19.33		19.50	0.0	20.0	22.06		22.27	1.0	23.0		
64QAM	1	1	18.37		18.28	0.0	19.0	19.36		19.56	0.0	20.0	20.85		20.99	2.5	21.5		
256QAM	1	1	17.66		17.56	0.0	19.0	18.20		18.39	0.5	19.5	18.07		18.23	4.5	19.5		
CP-OFDM	QPSK	1	1	18.47		18.38	0.0	19.0	19.34		19.60	0.0	20.0	21.88		22.08	1.5	22.5	

NR Band n25 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	
					372000	376500	381000			372000	376500	381000			372000	376500	381000			
					1860.0 MHz	1882.5 MHz	1905.0 MHz			1860.0 MHz	1882.5 MHz	1905.0 MHz			1860.0 MHz	1882.5 MHz	1905.0 MHz			
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.21	18.17	18.07	0.0	19.0	19.10	19.19	19.24	0.0	20.0	22.97	23.00	23.28	0.0	24.0	
			1	52	18.12	17.95	18.07	0.0	19.0	19.09	19.17	19.35	0.0	20.0	23.00	23.09	23.42	0.0	24.0	
			1	104	17.93	17.95	18.09	0.0	19.0	19.15	19.23	19.36	0.0	20.0	23.06	23.08	23.31	0.0	24.0	
			50	0	18.05	18.02	17.94	0.0	19.0	19.01	19.15	19.16	0.0	20.0	21.97	22.03	22.24	0.5	23.5	
			50	28	18.12	18.00	18.08	0.0	19.0	19.19	19.22	19.34	0.0	20.0	23.05	23.14	23.42	0.0	24.0	
			50	56	18.06	18.04	17.94	0.0	19.0	19.03	19.19	19.22	0.0	20.0	22.01	22.15	22.33	0.5	23.5	
		100	0	18.14	18.03	18.12	0.0	19.0	19.22	19.19	19.29	0.0	20.0	22.08	22.14	22.38	0.5	23.5		
		QPSK	1	1	18.12	18.17	18.10	0.0	19.0	19.07	19.21	19.21	0.0	20.0	23.05	23.00	23.31	0.0	24.0	
			1	52	18.07	17.95	18.10	0.0	19.0	19.00	19.18	19.38	0.0	20.0	23.03	23.08	23.35	0.0	24.0	
			1	104	17.94	17.95	18.12	0.0	19.0	19.18	19.24	19.39	0.0	20.0	23.08	23.13	23.23	0.0	24.0	
			50	0	18.06	18.01	17.96	0.0	19.0	19.04	19.12	19.23	0.0	20.0	22.02	22.14	22.27	1.0	23.0	
			50	28	18.14	18.00	18.12	0.0	19.0	19.22	19.19	19.38	0.0	20.0	23.11	23.13	23.47	0.0	24.0	
			50	56	18.06	18.05	18.00	0.0	19.0	19.09	19.17	19.30	0.0	20.0	22.08	22.15	22.36	1.0	23.0	
		16QAM	1	1	18.06	18.02	18.00	0.0	19.0	19.06	19.13	19.28	0.0	20.0	21.84	21.89	22.14	1.0	23.0	
			1	52	17.97	17.91	17.99	0.0	19.0	19.02	19.12	19.35	0.0	20.0	21.93	22.04	22.43	1.0	23.0	
			1	104	18.06	18.00	18.02	0.0	19.0	19.11	19.17	19.35	0.0	20.0	21.97	22.03	22.18	1.0	23.0	
		64QAM	1	1	18.20	18.13	18.16	0.0	19.0	19.25	19.25	19.38	0.0	20.0	20.69	20.65	20.89	2.5	21.5	
			1	1	17.50	17.49	17.39	0.0	19.0	18.03	18.16	18.25	0.5	19.5	17.88	17.94	18.14	4.5	19.5	
CP-OFDM	QPSK	1	1	18.23	18.27	18.26	0.0	19.0	19.28	19.27	19.42	0.0	20.0	21.61	21.59	21.89	1.5	22.5		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.25	18.16	18.04	0.0	19.0	19.22	19.24	19.35	0.0	20.0	23.14	23.27	23.31	0.0	24.0	
			1	39	18.11	18.02	18.05	0.0	19.0	19.09	19.16	19.40	0.0	20.0	23.05	23.14	23.28	0.0	24.0	
			1	77	18.14	18.02	18.12	0.0	19.0	19.19	19.28	19.42	0.0	20.0	23.13	23.22	23.16	0.0	24.0	
			36	0	18.11	17.99	17.99	0.0	19.0	19.06	19.10	19.32	0.0	20.0	22.07	22.17	22.36	0.5	23.5	
			36	21	18.22	18.00	18.09	0.0	19.0	19.08	19.20	19.38	0.0	20.0	23.18	23.31	23.34	0.0	24.0	
			36	43	18.10	17.98	17.92	0.0	19.0	19.14	19.15	19.30	0.0	20.0	22.02	22.25	22.31	0.5	23.5	
			75	0	18.09	17.96	17.95	0.0	19.0	19.06	19.09	19.28	0.0	20.0	22.06	22.14	22.34	0.5	23.5	
			QPSK	1	1	18.30	18.18	18.05	0.0	19.0	19.29	19.31	19.38	0.0	20.0	23.15	23.32	23.34	0.0	24.0
				1	39	18.17	17.95	18.05	0.0	19.0	19.01	19.18	19.44	0.0	20.0	23.07	23.18	23.33	0.0	24.0
				1	77	18.15	17.97	18.10	0.0	19.0	19.21	19.30	19.47	0.0	20.0	23.15	23.29	23.31	0.0	24.0
				36	0	18.10	17.99	17.98	0.0	19.0	19.12	19.14	19.30	0.0	20.0	22.13	22.18	22.28	1.0	23.0
				36	21	18.21	18.06	18.10	0.0	19.0	19.14	19.27	19.37	0.0	20.0	23.24	23.29	23.50	0.0	24.0
		36		43	18.15	18.04	17.92	0.0	19.0	19.12	19.19	19.26	0.0	20.0	22.03	22.24	22.35	1.0	23.0	
		16QAM	1	1	18.18	18.11	17.95	0.0	19.0	19.12	19.25	19.28	0.0	20.0	21.98	22.10	22.16	1.0	23.0	
			1	39	18.05	18.00	17.96	0.0	19.0	19.14	19.11	19.34	0.0	20.0	21.93	21.99	22.32	1.0	23.0	
			1	77	18.06	17.98	18.01	0.0	19.0	19.09	19.16	19.37	0.0	20.0	22.05	22.06	22.21	1.0	23.0	
		64QAM	1	1	18.33	18.19	18.05	0.0	19.0	19.33	19.36	19.39	0.0	20.0	20.84	20.91	20.92	2.5	21.5	
		256QAM	1	1	17.65	17.53	17.46	0.0	19.0	18.20	18.21	18.34	0.5	19.5	18.06	18.12	18.24	4.5	19.5	
		CP-OFDM	QPSK	1	1	18.32	18.31	18.16	0.0	19.0	19.39	19.32	19.45	0.0	20.0	21.84	21.88	21.87	1.5	22.5

NR Band n25 (Ant B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371000	376500	382000			371000	376500	382000			371000	376500	382000		
					1855.0 MHz	1882.5 MHz	1910.0 MHz			1855.0 MHz	1882.5 MHz	1910.0 MHz			1855.0 MHz	1882.5 MHz	1910.0 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.27	18.08	18.07	0.0	19.0	19.17	19.25	19.39	0.0	20.0	23.03	23.04	23.26	0.0	24.0
			1	25	18.19	17.95	18.13	0.0	19.0	19.14	19.25	19.45	0.0	20.0	23.01	23.05	23.34	0.0	24.0
			1	50	18.20	17.88	18.06	0.0	19.0	19.17	19.13	19.43	0.0	20.0	23.04	23.00	23.28	0.0	24.0
			25	0	18.11	17.96	17.90	0.0	19.0	19.10	19.11	19.25	0.0	20.0	22.00	22.00	22.19	0.5	23.5
			25	13	18.22	18.08	18.04	0.0	19.0	19.15	19.18	19.36	0.0	20.0	23.07	23.08	23.26	0.0	24.0
			25	27	18.12	17.92	17.95	0.0	19.0	19.08	19.11	19.34	0.0	20.0	21.96	22.00	22.28	0.5	23.5
		50	0	18.11	17.96	17.93	0.0	19.0	19.05	19.13	19.22	0.0	20.0	21.99	22.01	22.23	0.5	23.5	
		QPSK	1	1	18.26	18.07	18.05	0.0	19.0	19.18	19.24	19.34	0.0	20.0	23.05	23.07	23.33	0.0	24.0
			1	25	18.20	17.95	18.10	0.0	19.0	19.06	19.26	19.47	0.0	20.0	23.04	23.09	23.26	0.0	24.0
			1	50	18.20	17.86	18.04	0.0	19.0	19.10	19.17	19.40	0.0	20.0	23.06	23.00	23.30	0.0	24.0
			25	0	18.10	17.96	17.97	0.0	19.0	19.12	19.10	19.27	0.0	20.0	22.00	22.06	22.20	1.0	23.0
			25	13	18.20	17.99	18.01	0.0	19.0	19.05	19.20	19.34	0.0	20.0	23.07	23.12	23.28	0.0	24.0
	25		27	18.12	17.91	17.99	0.0	19.0	19.07	19.16	19.35	0.0	20.0	21.95	22.05	22.24	1.0	23.0	
	16QAM	1	1	18.11	18.03	17.99	0.0	19.0	19.06	19.16	19.29	0.0	20.0	21.89	21.99	22.12	1.0	23.0	
		1	25	18.04	18.01	18.04	0.0	19.0	19.07	19.11	19.35	0.0	20.0	21.85	21.93	22.24	1.0	23.0	
		1	50	18.05	17.85	17.99	0.0	19.0	19.14	19.08	19.33	0.0	20.0	21.94	21.89	22.16	1.0	23.0	
1		1	18.26	18.08	18.11	0.0	19.0	19.28	19.23	19.43	0.0	20.0	20.71	20.69	20.91	2.5	21.5		
256QAM	1	1	17.58	17.44	17.37	0.0	19.0	18.13	18.16	18.28	0.5	19.5	17.94	17.96	18.14	4.5	19.5		
CP-OFDM	QPSK	1	1	18.27	18.20	18.06	0.0	19.0	19.31	19.26	19.50	0.0	20.0	21.65	21.59	21.87	1.5	22.5	
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.12	18.07	17.95	0.0	19.0	19.21	19.21	19.30	0.0	20.0	23.06	23.14	23.04	0.0	24.0
			1	12	18.09	17.91	18.00	0.0	19.0	19.17	19.12	19.40	0.0	20.0	23.04	23.11	23.27	0.0	24.0
			1	23	18.10	17.97	17.90	0.0	19.0	19.10	19.13	19.26	0.0	20.0	23.01	23.08	23.15	0.0	24.0
			12	0	18.10	18.03	18.01	0.0	19.0	19.11	19.13	19.34	0.0	20.0	22.00	22.07	22.26	0.5	23.5
			12	6	18.14	17.97	18.03	0.0	19.0	19.18	19.14	19.37	0.0	20.0	23.01	23.09	23.23	0.0	24.0
			12	13	18.00	17.97	17.94	0.0	19.0	19.03	19.11	19.26	0.0	20.0	21.93	22.01	22.15	0.5	23.5
		25	0	18.00	17.95	17.95	0.0	19.0	19.05	19.10	19.29	0.0	20.0	22.01	22.07	22.29	0.5	23.5	
		QPSK	1	1	18.13	18.08	17.95	0.0	19.0	19.14	19.22	19.30	0.0	20.0	23.06	23.18	23.22	0.0	24.0
			1	12	18.08	17.90	17.99	0.0	19.0	19.11	19.14	19.38	0.0	20.0	23.02	23.14	23.33	0.0	24.0
			1	23	18.10	17.98	17.91	0.0	19.0	19.13	19.17	19.30	0.0	20.0	23.01	23.12	23.21	0.0	24.0
			12	0	18.14	18.04	18.00	0.0	19.0	19.13	19.13	19.33	0.0	20.0	21.99	22.11	22.25	1.0	23.0
			12	6	18.15	17.97	18.02	0.0	19.0	19.13	19.21	19.36	0.0	20.0	23.00	23.06	23.29	0.0	24.0
	12		13	18.04	17.99	17.93	0.0	19.0	19.06	19.07	19.28	0.0	20.0	21.93	22.07	22.24	1.0	23.0	
	16QAM	1	1	18.18	18.03	17.93	0.0	19.0	19.11	19.20	19.33	0.0	20.0	21.91	22.04	22.02	1.0	23.0	
		1	12	18.04	17.91	17.93	0.0	19.0	19.00	19.07	19.29	0.0	20.0	21.88	21.90	22.12	1.0	23.0	
		1	23	18.09	18.02	17.90	0.0	19.0	19.12	19.14	19.27	0.0	20.0	21.94	21.94	22.13	1.0	23.0	
1		1	18.29	18.18	18.05	0.0	19.0	19.31	19.37	19.45	0.0	20.0	20.78	20.83	20.91	2.5	21.5		
256QAM	1	1	17.59	17.52	17.56	0.0	19.0	18.19	18.26	18.46	0.5	19.5	18.06	18.13	18.21	4.5	19.5		
CP-OFDM	QPSK	1	1	18.28	18.32	18.11	0.0	19.0	19.36	19.32	19.52	0.0	20.0	21.74	21.83	21.79	1.5	22.5	

NR Band n25 (Ant E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0, 1					DSI = 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					374000	376500	379000			374000	376500	379000		
1870.00 MHz	1882.50 MHz	1895.00 MHz	1870.00 MHz	1882.50 MHz	1895.00 MHz									
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.80		0.0	21.0		22.43		0.0	23.5
			1	107		19.67		0.0	21.0		22.31		0.0	23.5
			1	214		19.81		0.0	21.0		22.32		0.0	23.5
			108	0		19.72		0.0	21.0		22.05		0.0	23.5
			108	54		19.79		0.0	21.0		22.37		0.0	23.5
			108	108		19.61		0.0	21.0		21.96		0.0	23.5
		216	0		19.75		0.0	21.0		22.08		0.0	23.5	
		QPSK	1	1		19.87		0.0	21.0		22.43		0.0	23.5
			1	107		19.58		0.0	21.0		22.31		0.0	23.5
			1	214		19.74		0.0	21.0		22.30		0.0	23.5
			108	0		19.70		0.0	21.0		22.05		0.5	23.0
			108	54		19.78		0.0	21.0		22.40		0.0	23.5
			108	108		19.62		0.0	21.0		21.99		0.5	23.0
		216	0		19.72		0.0	21.0		22.11		0.5	23.0	
		16QAM	1	1		19.74		0.0	21.0		22.08		0.5	23.0
			1	107		19.67		0.0	21.0		22.02		0.5	23.0
1	214			19.72		0.0	21.0		21.91		0.5	23.0		
64QAM	1	1		19.85		0.0	21.0		20.74		2.0	21.5		
256QAM	1	1		17.84		1.5	19.5		17.95		4.0	19.5		
CP-OFDM	QPSK	1	1		19.92		0.0	21.0		21.65		1.0	22.5	
35 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.80		0.0	21.0		22.32		0.0	23.5
			1	93		19.88		0.0	21.0		22.42		0.0	23.5
			1	186		19.83		0.0	21.0		22.27		0.0	23.5
			90	0		19.78		0.0	21.0		22.02		0.0	23.5
			90	49		19.79		0.0	21.0		22.40		0.0	23.5
			90	98		19.70		0.0	21.0		21.98		0.0	23.5
		180	0		19.79		0.0	21.0		22.05		0.0	23.5	
		QPSK	1	1		19.85		0.0	21.0		22.33		0.0	23.5
			1	93		19.91		0.0	21.0		22.41		0.0	23.5
			1	186		19.81		0.0	21.0		22.29		0.0	23.5
			90	0		19.80		0.0	21.0		22.05		0.5	23.0
			90	49		19.87		0.0	21.0		22.34		0.0	23.5
			90	98		19.75		0.0	21.0		22.02		0.5	23.0
		180	0		19.79		0.0	21.0		22.02		0.5	23.0	
		16QAM	1	1		19.88		0.0	21.0		22.02		0.5	23.0
			1	93		19.77		0.0	21.0		21.98		0.5	23.0
1	186			19.77		0.0	21.0		21.97		0.5	23.0		
64QAM	1	1		19.98		0.0	21.0		20.71		2.0	21.5		
256QAM	1	1		17.96		1.5	19.5		17.99		4.0	19.5		
CP-OFDM	QPSK	1	1		19.97		0.0	21.0		21.70		1.0	22.5	

NR Band n25 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					373000	376500	380000			373000	376500	380000		
					1865.00 MHz	1882.50 MHz	1900.00 MHz			1865.00 MHz	1882.50 MHz	1900.00 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.83		19.89	0.0	21.0	22.54		22.48	0.0	23.5
			1	79	19.88		19.87	0.0	21.0	22.56		22.41	0.0	23.5
			1	158	19.86		19.83	0.0	21.0	22.58		22.36	0.0	23.5
			80	0	19.71		19.85	0.0	21.0	22.17		21.42	0.0	23.5
			80	40	19.90		19.84	0.0	21.0	22.52		22.39	0.0	23.5
			80	80	19.76		19.72	0.0	21.0	22.13		21.96	0.0	23.5
			160	0	19.75		19.75	0.0	21.0	22.12		22.03	0.0	23.5
		QPSK	1	1	19.85		19.86	0.0	21.0	22.58		22.50	0.0	23.5
			1	79	19.88		19.89	0.0	21.0	22.54		22.37	0.0	23.5
			1	158	19.92		19.84	0.0	21.0	22.55		22.37	0.0	23.5
			80	0	19.73		19.87	0.0	21.0	22.16		22.06	0.5	23.0
			80	40	19.89		19.84	0.0	21.0	22.50		22.40	0.0	23.5
			80	80	19.76		19.78	0.0	21.0	22.15		21.99	0.5	23.0
			160	0	19.76		19.79	0.0	21.0	22.15		21.99	0.5	23.0
16QAM	1	1	19.81		19.76	0.0	21.0	22.13		22.07	0.5	23.0		
	1	79	19.83		19.76	0.0	21.0	22.13		21.97	0.5	23.0		
	1	158	19.80		19.73	0.0	21.0	22.12		21.96	0.5	23.0		
64QAM	1	1	19.90		19.93	0.0	21.0	20.87		20.76	2.0	21.5		
256QAM	1	1	17.98		17.99	1.5	19.5	18.10		18.02	4.0	19.5		
CP-OFDM	QPSK	1	1	19.96		19.93	0.0	21.0	21.88		21.82	1.0	22.5	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.77		19.94	0.0	21.0	22.54		22.48	0.0	23.5
			1	66	19.73		19.86	0.0	21.0	22.49		22.32	0.0	23.5
			1	131	19.81		19.86	0.0	21.0	22.48		22.33	0.0	23.5
			64	0	19.64		19.81	0.0	21.0	22.05		22.00	0.0	23.5
			64	34	19.71		19.79	0.0	21.0	22.41		22.35	0.0	23.5
			64	69	19.68		19.72	0.0	21.0	22.04		21.97	0.0	23.5
			128	0	19.60		19.78	0.0	21.0	22.02		22.02	0.0	23.5
		QPSK	1	1	19.82		19.99	0.0	21.0	22.51		22.45	0.0	23.5
			1	66	19.72		19.85	0.0	21.0	22.47		22.42	0.0	23.5
			1	131	19.87		19.78	0.0	21.0	22.46		22.42	0.0	23.5
			64	0	19.65		19.79	0.0	21.0	22.08		21.99	0.5	23.0
			64	34	19.72		19.87	0.0	21.0	22.39		22.30	0.0	23.5
			64	69	19.69		19.71	0.0	21.0	22.03		21.93	0.5	23.0
			128	0	19.62		19.79	0.0	21.0	22.05		21.96	0.5	23.0
16QAM	1	1	19.73		19.86	0.0	21.0	22.10		22.09	0.5	23.0		
	1	66	19.65		19.79	0.0	21.0	22.05		21.94	0.5	23.0		
	1	131	19.73		19.75	0.0	21.0	22.03		21.92	0.5	23.0		
64QAM	1	1	19.86		19.89	0.0	21.0	20.80		20.78	2.0	21.5		
256QAM	1	1	17.90		18.01	1.5	19.5	18.08		18.05	4.0	19.5		
CP-OFDM	QPSK	1	1	19.94		19.98	0.0	21.0	21.83		21.83	1.0	22.5	

NR Band n25 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					372000	376500	381000			372000	376500	381000		
					1860.00 MHz	1882.50 MHz	1905.00 MHz			1860.00 MHz	1882.50 MHz	1905.00 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.79	19.79	19.91	0.0	21.0	22.42	22.37	22.34	0.0	23.5
			1	52	19.64	19.77	19.84	0.0	21.0	22.42	22.34	22.29	0.0	23.5
			1	104	19.76	19.83	19.74	0.0	21.0	22.28	22.34	22.25	0.0	23.5
			50	0	19.68	19.66	19.79	0.0	21.0	22.03	21.98	21.97	0.0	23.5
			50	28	19.65	19.72	19.79	0.0	21.0	22.35	22.33	22.31	0.0	23.5
			50	56	19.69	19.64	19.67	0.0	21.0	22.12	21.99	21.92	0.0	23.5
		100	0	19.59	19.79	19.78	0.0	21.0	22.07	22.06	22.04	0.0	23.5	
		QPSK	1	1	19.78	19.76	19.86	0.0	21.0	22.38	22.30	22.33	0.0	23.5
			1	52	19.62	19.74	19.82	0.0	21.0	22.38	22.34	22.32	0.0	23.5
			1	104	19.76	19.81	19.77	0.0	21.0	22.35	22.32	22.26	0.0	23.5
			50	0	19.67	19.70	19.79	0.0	21.0	22.00	21.96	21.98	0.5	23.0
			50	28	19.65	19.77	19.82	0.0	21.0	22.39	22.37	22.33	0.0	23.5
	50		56	19.70	19.64	19.69	0.0	21.0	22.10	21.98	21.95	0.5	23.0	
	16QAM	1	1	19.63	19.62	19.74	0.0	21.0	21.97	21.93	21.96	0.5	23.0	
		1	52	19.70	19.68	19.78	0.0	21.0	21.99	21.94	21.92	0.5	23.0	
1		104	19.68	19.72	19.65	0.0	21.0	21.89	21.91	21.88	0.5	23.0		
64QAM	1	1	19.82	19.77	19.87	0.0	21.0	20.71	20.63	20.67	2.0	21.5		
256QAM	1	1	17.78	17.85	17.90	1.5	19.5	17.99	17.87	17.90	4.0	19.5		
CP-OFDM	QPSK	1	1	19.79	19.83	19.94	0.0	21.0	21.73	21.66	21.69	1.0	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371500	376500	381500			371500	376500	381500		
					1857.50 MHz	1882.50 MHz	1907.50 MHz			1857.50 MHz	1882.50 MHz	1907.50 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.86	19.79	19.82	0.0	21.0	22.51	22.39	22.35	0.0	23.5
			1	39	19.72	19.64	19.74	0.0	21.0	22.43	22.34	22.30	0.0	23.5
			1	77	19.79	19.71	19.74	0.0	21.0	22.35	22.35	22.31	0.0	23.5
			36	0	19.63	19.65	19.72	0.0	21.0	22.06	21.97	21.99	0.0	23.5
			36	21	19.72	19.68	19.74	0.0	21.0	22.47	22.40	22.34	0.0	23.5
			36	43	19.65	19.60	19.64	0.0	21.0	22.00	22.02	21.92	0.0	23.5
		75	0	19.67	19.62	19.68	0.0	21.0	22.08	21.97	21.92	0.0	23.5	
		QPSK	1	1	19.85	19.79	19.83	0.0	21.0	22.47	22.32	22.39	0.0	23.5
			1	39	19.73	19.71	19.77	0.0	21.0	22.41	22.39	22.30	0.0	23.5
			1	77	19.85	19.78	19.69	0.0	21.0	22.39	22.33	22.30	0.0	23.5
			36	0	19.70	19.63	19.72	0.0	21.0	22.09	22.11	21.99	0.5	23.0
			36	21	19.73	19.70	19.75	0.0	21.0	22.46	22.42	22.38	0.0	23.5
	36		43	19.64	19.59	19.62	0.0	21.0	22.01	22.00	21.95	0.5	23.0	
	75	0	19.67	19.62	19.67	0.0	21.0	22.06	21.96	21.94	0.5	23.0		
	16QAM	1	1	19.70	19.69	19.76	0.0	21.0	22.09	21.98	21.97	0.5	23.0	
1		39	19.62	19.60	19.63	0.0	21.0	22.02	21.95	21.92	0.5	23.0		
1		77	19.69	19.70	19.62	0.0	21.0	21.94	21.94	21.91	0.5	23.0		
64QAM	1	1	19.91	19.87	19.87	0.0	21.0	20.82	20.73	20.67	2.0	21.5		
256QAM	1	1	17.93	17.85	17.92	1.5	19.5	18.05	18.03	18.03	4.0	19.5		
CP-OFDM	QPSK	1	1	19.89	19.89	19.93	0.0	21.0	21.85	21.70	21.70	1.0	22.5	

NR Band n25 (Ant E) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371000	376500	382000			371000	376500	382000		
					1855.00 MHz	1882.50 MHz	1910.00 MHz			1855.00 MHz	1882.50 MHz	1910.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.80	19.71	19.62	0.0	21.0	22.42	22.39	22.29	0.0	23.5
			1	25	19.80	19.76	19.72	0.0	21.0	22.43	22.34	22.26	0.0	23.5
			1	50	19.68	19.67	19.69	0.0	21.0	22.39	22.30	22.24	0.0	23.5
			25	0	19.67	19.65	19.52	0.0	21.0	22.05	22.00	21.91	0.0	23.5
			25	13	19.73	19.74	19.56	0.0	21.0	22.40	22.31	22.28	0.0	23.5
			25	27	19.80	19.65	19.61	0.0	21.0	22.07	21.96	21.91	0.0	23.5
			50	0	19.78	19.59	19.54	0.0	21.0	22.05	21.98	21.88	0.0	23.5
		QPSK	1	1	19.79	19.70	19.70	0.0	21.0	22.45	22.33	22.30	0.0	23.5
			1	25	19.79	19.75	19.73	0.0	21.0	22.44	22.39	22.24	0.0	23.5
			1	50	19.71	19.69	19.66	0.0	21.0	22.41	22.31	22.26	0.0	23.5
			25	0	19.68	19.64	19.54	0.0	21.0	22.12	21.98	21.92	0.5	23.0
			25	13	19.79	19.73	19.61	0.0	21.0	22.44	22.33	22.27	0.0	23.5
			25	27	19.79	19.65	19.60	0.0	21.0	22.06	21.97	21.90	0.5	23.0
		16QAM	50	0	19.77	19.61	19.52	0.0	21.0	22.12	21.98	21.92	0.5	23.0
			1	1	19.63	19.61	19.56	0.0	21.0	22.07	22.03	21.94	0.5	23.0
1	25		19.63	19.61	19.62	0.0	21.0	22.08	21.98	21.86	0.5	23.0		
64QAM	1	50	19.71	19.57	19.63	0.0	21.0	22.02	21.91	21.84	0.5	23.0		
	1	1	19.83	19.79	19.67	0.0	21.0	20.73	20.65	20.55	2.0	21.5		
256QAM	1	1	17.88	17.78	17.69	1.5	19.5	18.03	17.95	17.85	4.0	19.5		
CP-OFDM	QPSK	1	1	19.81	19.86	19.71	0.0	21.0	21.76	21.59	21.51	1.0	22.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					370500	376500	382500			370500	376500	382500		
					1852.50 MHz	1882.50 MHz	1912.50 MHz			1852.50 MHz	1882.50 MHz	1912.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.70	19.73	19.52	0.0	21.0	22.44	22.33	22.17	0.0	23.5
			1	12	19.69	19.69	19.64	0.0	21.0	22.34	22.31	22.22	0.0	23.5
			1	23	19.64	19.68	19.55	0.0	21.0	22.33	22.27	22.12	0.0	23.5
			12	0	19.66	19.68	19.62	0.0	21.0	22.03	22.03	21.91	0.0	23.5
			12	6	19.68	19.58	19.67	0.0	21.0	22.35	22.30	22.24	0.0	23.5
			12	13	19.59	19.60	19.56	0.0	21.0	21.99	21.94	21.89	0.0	23.5
			25	0	19.58	19.64	19.58	0.0	21.0	22.01	21.95	21.88	0.0	23.5
		QPSK	1	1	19.71	19.73	19.59	0.0	21.0	22.40	22.32	22.19	0.0	23.5
			1	12	19.66	19.57	19.64	0.0	21.0	22.34	22.30	22.26	0.0	23.5
			1	23	19.65	19.67	19.51	0.0	21.0	22.36	22.30	22.13	0.0	23.5
			12	0	19.64	19.66	19.59	0.0	21.0	22.05	22.03	21.90	0.5	23.0
			12	6	19.73	19.57	19.63	0.0	21.0	22.40	22.33	22.23	0.0	23.5
			12	13	19.63	19.62	19.56	0.0	21.0	22.04	21.94	21.85	0.5	23.0
		16QAM	25	0	19.66	19.64	19.56	0.0	21.0	22.06	22.02	21.86	0.5	23.0
			1	1	19.72	19.76	19.56	0.0	21.0	22.09	22.03	21.86	0.5	23.0
			1	12	19.55	19.61	19.53	0.0	21.0	21.95	21.92	21.80	0.5	23.0
		64QAM	1	23	19.67	19.66	19.56	0.0	21.0	22.04	21.99	21.85	0.5	23.0
			1	1	19.88	19.84	19.73	0.0	21.0	20.79	20.72	20.53	2.0	21.5
256QAM	1	1	17.94	17.89	17.84	1.5	19.5	18.13	18.02	17.94	4.0	19.5		
CP-OFDM	QPSK	1	1	19.88	19.95	19.71	0.0	21.0	21.84	21.69	21.50	1.0	22.5	

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						Maximum Allowed Average Power (dBm)									
					DSI = 0, 1						DSI = 2, 3									
					Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit		
							518598							518598						
2592.99 MHz					2592.99 MHz															
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1			19.26			0.0	19.5			22.32			0.0	23.0		
			1	136			18.83			0.0	19.5			21.89			0.0	23.0		
			1	271			19.13			0.0	19.5			22.14			0.0	23.0		
			135	0			19.14			0.0	19.5			22.11			0.0	23.0		
			135	69			19.11			0.0	19.5			22.05			0.0	23.0		
			135	138			19.11			0.0	19.5			22.07			0.0	23.0		
			270	0			19.09			0.0	19.5			22.09			0.0	23.0		
		QPSK	1	1			19.28			0.0	19.5			22.43			0.0	23.0		
			1	136			18.88			0.0	19.5			22.01			0.0	23.0		
			1	271			19.18			0.0	19.5			22.28			0.0	23.0		
			135	0			19.13			0.0	19.5			22.15			0.0	23.0		
			135	69			19.07			0.0	19.5			22.13			0.0	23.0		
			135	138			19.03			0.0	19.5			22.13			0.0	23.0		
			270	0			19.08			0.0	19.5			22.11			0.0	23.0		
	16QAM	1	1			19.38			0.0	19.5			22.37			0.0	23.0			
		1	136			19.03			0.0	19.5			21.98			0.0	23.0			
		1	271			19.22			0.0	19.5			22.25			0.0	23.0			
	64QAM	1	1			19.44			0.0	19.5			21.86			0.5	22.5			
	256QAM	1	1			19.38			0.0	19.5			19.96			2.5	20.5			
	CP-OFDM	QPSK	1	1			19.47			0.0	19.5			22.49			0.0	23.0		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						Measured Pwr (dBm)									
					508200			528996			MPR	Tune-up Limit	508200			528996			MPR	Tune-up Limit
							2541.00 MHz			2644.98 MHz					2541.00 MHz			2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.47			19.13	0.0	19.5	22.54			22.19	0.0	23.0				
			1	122	19.40			19.18	0.0	19.5	22.37			22.23	0.0	23.0				
			1	243	19.23			19.25	0.0	19.5	22.28			22.28	0.0	23.0				
			120	0	19.26			18.96	0.0	19.5	22.29			21.97	0.0	23.0				
			120	62	19.34			19.08	0.0	19.5	22.42			22.18	0.0	23.0				
			120	125	19.18			19.13	0.0	19.5	22.24			22.18	0.0	23.0				
			243	0	19.31			19.12	0.0	19.5	22.45			22.17	0.0	23.0				
		QPSK	1	1	19.49			19.21	0.0	19.5	22.65			22.23	0.0	23.0				
			1	122	19.40			19.16	0.0	19.5	22.43			22.27	0.0	23.0				
			1	243	19.21			19.28	0.0	19.5	22.34			22.21	0.0	23.0				
			120	0	19.24			19.04	0.0	19.5	22.38			22.04	0.0	23.0				
			120	62	19.38			19.16	0.0	19.5	22.47			22.18	0.0	23.0				
			120	125	19.21			19.23	0.0	19.5	22.30			22.20	0.0	23.0				
			243	0	19.37			19.18	0.0	19.5	22.38			22.23	0.0	23.0				
	16QAM	1	1	19.43			19.13	0.0	19.5	22.41			22.14	0.0	23.0					
		1	122	19.29			19.17	0.0	19.5	22.28			22.23	0.0	23.0					
		1	243	19.36			19.24	0.0	19.5	22.21			21.08	0.0	23.0					
	64QAM	1	1	19.48			19.09	0.0	19.5	20.76			21.51	0.5	22.5					
	256QAM	1	1	19.47			19.13	0.0	19.5	19.95			19.57	2.5	20.5					
	CP-OFDM	QPSK	1	1	19.44			19.21	0.0	19.5	22.57			22.38	0.0	23.0				

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
					507204			529998			507204			529998				
					2536.02 MHz			2649.99 MHz			2536.02 MHz			2649.99 MHz				
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.43				19.41	0.0	19.5	22.91				22.06	0.0	23.0
			1	108	19.34				19.44	0.0	19.5	22.73				22.11	0.0	23.0
			1	215	19.37				19.38	0.0	19.5	22.71				21.99	0.0	23.0
			108	0	19.40				19.42	0.0	19.5	21.61				22.06	0.0	23.0
			108	54	19.47				19.45	0.0	19.5	22.83				22.58	0.0	23.0
			108	109	19.36				19.39	0.0	19.5	22.79				22.45	0.0	23.0
			216	0	19.40				19.48	0.0	19.5	22.93				22.62	0.0	23.0
		QPSK	1	1	19.47				19.42	0.0	19.5	22.81				22.41	0.0	23.0
			1	108	19.39				19.40	0.0	19.5	22.66				22.37	0.0	23.0
			1	215	19.41				19.42	0.0	19.5	22.71				20.94	0.0	23.0
			108	0	19.44				19.39	0.0	19.5	22.66				21.85	0.0	23.0
			108	54	19.40				19.37	0.0	19.5	22.78				22.38	0.0	23.0
			108	109	19.41				19.38	0.0	19.5	22.62				21.52	0.0	23.0
			216	0	19.46				19.45	0.0	19.5	22.85				22.53	0.0	23.0
		16QAM	1	1	19.36				19.41	0.0	19.5	22.90				22.30	0.0	23.0
			1	108	19.41				19.38	0.0	19.5	22.96				21.90	0.0	23.0
			1	215	19.44				19.41	0.0	19.5	22.97				21.63	0.0	23.0
64QAM	1	1	19.38				19.31	0.0	19.5	22.38				21.76	0.5	22.5		
256QAM	1	1	19.45				19.21	0.0	19.5	19.52				19.87	2.5	20.5		
CP-OFDM	QPSK	1	1	19.50				19.31	0.0	19.5	21.54				22.04	0.0	23.0	
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.50				19.45	0.0	19.5	22.31				22.30	0.0	23.0
			1	94	19.25				19.24	0.0	19.5	22.32				22.21	0.0	23.0
			1	187	19.32				19.31	0.0	19.5	22.31				22.36	0.0	23.0
			90	0	19.50				19.38	0.0	19.5	22.35				22.43	0.0	23.0
			90	49	19.45				19.39	0.0	19.5	22.34				22.44	0.0	23.0
			90	99	19.30				19.29	0.0	19.5	22.26				22.16	0.0	23.0
			180	0	19.47				19.41	0.0	19.5	22.18				22.22	0.0	23.0
		QPSK	1	1	19.46				19.45	0.0	19.5	22.22				22.28	0.0	23.0
			1	94	19.30				19.43	0.0	19.5	22.43				22.34	0.0	23.0
			1	187	19.35				19.34	0.0	19.5	22.40				22.42	0.0	23.0
			90	0	19.50				19.44	0.0	19.5	22.15				22.24	0.0	23.0
			90	49	19.37				19.32	0.0	19.5	22.28				22.42	0.0	23.0
			90	99	19.41				19.50	0.0	19.5	22.32				22.26	0.0	23.0
			180	0	19.41				19.49	0.0	19.5	22.31				22.24	0.0	23.0
		16QAM	1	1	19.34				19.45	0.0	19.5	22.19				22.33	0.0	23.0
			1	94	19.44				19.30	0.0	19.5	22.23				22.18	0.0	23.0
			1	187	19.46				19.45	0.0	19.5	22.36				22.35	0.0	23.0
64QAM	1	1	19.29				19.30	0.0	19.5	21.36				21.30	0.5	22.5		
256QAM	1	1	19.48				19.45	0.0	19.5	19.82				19.78	2.5	20.5		
CP-OFDM	QPSK	1	1	19.49				19.49	0.0	19.5	22.16				22.23	0.0	23.0	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
					505200	518598	531996				505200	518598	531996					
					2526.00 MHz	2592.99 MHz	2659.98 MHz				2526.00 MHz	2592.99 MHz	2659.98 MHz					
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.37		19.50		19.49	0.0	19.5	22.25		22.26		22.38	0.0	23.0
			1	80	19.36		19.35		19.41	0.0	19.5	22.38		22.38		22.38	0.0	23.0
			1	160	19.26		19.44		19.31	0.0	19.5	22.24		22.38		22.31	0.0	23.0
			81	0	19.30		19.33		19.50	0.0	19.5	22.45		22.40		22.44	0.0	23.0
			81	40	19.49		19.41		19.49	0.0	19.5	22.44		22.35		22.41	0.0	23.0
			81	81	19.26		19.36		19.42	0.0	19.5	22.27		22.17		22.22	0.0	23.0
		162	0	19.46		19.49		19.43	0.0	19.5	22.17		22.13		22.20	0.0	23.0	
		QPSK	1	1	19.37		19.41		19.50	0.0	19.5	22.26		22.41		22.22	0.0	23.0
			1	80	19.35		19.28		19.43	0.0	19.5	22.36		22.34		22.37	0.0	23.0
			1	160	19.34		19.48		19.33	0.0	19.5	22.47		22.37		22.45	0.0	23.0
			81	0	19.48		19.47		19.43	0.0	19.5	22.19		22.25		22.25	0.0	23.0
			81	40	19.32		19.48		19.32	0.0	19.5	22.25		22.30		22.30	0.0	23.0
			81	81	19.44		19.49		19.44	0.0	19.5	22.28		22.17		22.35	0.0	23.0
		162	0	19.49		19.49		19.49	0.0	19.5	22.24		22.37		22.34	0.0	23.0	
		16QAM	1	1	19.41		19.46		19.28	0.0	19.5	22.25		22.17		22.20	0.0	23.0
			1	80	19.45		19.46		19.34	0.0	19.5	22.35		22.31		22.27	0.0	23.0
1	160		19.37		19.39		19.49	0.0	19.5	22.29		22.34		22.29	0.0	23.0		
64QAM	1	1	19.28		19.43		19.43	0.0	19.5	21.38		21.37		21.40	0.5	22.5		
256QAM	1	1	19.47		19.34		19.38	0.0	19.5	19.70		19.77		19.69	2.5	20.5		
CP-OFDM	QPSK	1	1	19.49		19.49		19.49	0.0	19.5	22.13		22.20		22.25	0.0	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
					504204	518598	532998				504204	518598	532998					
					2521.02 MHz	2592.99 MHz	2664.99 MHz				2521.02 MHz	2592.99 MHz	2664.99 MHz					
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.49		19.45		19.44	0.0	19.5	22.29		22.37		22.22	0.0	23.0
			1	66	19.26		19.42		19.32	0.0	19.5	22.29		22.38		22.27	0.0	23.0
			1	131	19.36		19.33		19.29	0.0	19.5	22.36		22.27		22.43	0.0	23.0
			64	0	19.36		19.50		19.48	0.0	19.5	22.33		22.46		22.31	0.0	23.0
			64	34	19.36		19.46		19.36	0.0	19.5	22.38		22.35		22.37	0.0	23.0
			64	69	19.36		19.43		19.32	0.0	19.5	22.34		22.24		22.32	0.0	23.0
		128	0	19.49		19.49		19.41	0.0	19.5	22.27		22.33		22.20	0.0	23.0	
		QPSK	1	1	19.49		19.43		19.39	0.0	19.5	22.32		22.33		22.35	0.0	23.0
			1	66	19.33		19.32		19.32	0.0	19.5	22.28		22.41		22.36	0.0	23.0
			1	131	19.46		19.43		19.33	0.0	19.5	22.39		22.31		22.46	0.0	23.0
			64	0	19.45		19.46		19.50	0.0	19.5	22.28		22.29		22.24	0.0	23.0
			64	34	19.34		19.29		19.40	0.0	19.5	22.24		22.37		22.37	0.0	23.0
			64	69	19.43		19.44		19.41	0.0	19.5	22.18		22.19		22.26	0.0	23.0
		128	0	19.49		19.49		19.49	0.0	19.5	22.31		22.36		22.32	0.0	23.0	
		16QAM	1	1	19.26		19.40		19.44	0.0	19.5	22.18		22.36		22.17	0.0	23.0
			1	66	19.30		19.32		19.45	0.0	19.5	22.28		22.30		22.19	0.0	23.0
1	131		19.41		19.49		19.44	0.0	19.5	22.37		22.30		22.42	0.0	23.0		
64QAM	1	1	19.29		19.39		19.29	0.0	19.5	21.32		21.25		21.35	0.5	22.5		
256QAM	1	1	19.37		19.36		19.45	0.0	19.5	19.84		19.76		19.70	2.5	20.5		
CP-OFDM	QPSK	1	1	19.49		19.49		19.49	0.0	19.5	22.19		22.24		22.25	0.0	23.0	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					503202	513468		523734	534000			503202	513468		523734	534000		
					2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.46	19.50		19.50	19.50	0.0	19.5	22.32	22.20		22.21	22.19	0.0	23.0
			1	52	19.43	19.25		19.41	19.36	0.0	19.5	22.41	22.37		22.33	22.25	0.0	23.0
			1	104	19.28	19.33		19.42	19.47	0.0	19.5	22.33	22.30		22.24	22.25	0.0	23.0
			50	0	19.41	19.45		19.36	19.49	0.0	19.5	22.40	22.45		22.43	22.45	0.0	23.0
			50	28	19.42	19.49		19.39	19.43	0.0	19.5	22.43	22.44		22.34	22.30	0.0	23.0
			50	56	19.46	19.27		19.30	19.32	0.0	19.5	22.18	22.28		22.16	22.18	0.0	23.0
		100	0	19.47	19.49		19.43	19.43	0.0	19.5	22.29	22.27		22.17	22.26	0.0	23.0	
		QPSK	1	1	19.37	19.43		19.44	19.43	0.0	19.5	22.33	22.32		22.34	22.28	0.0	23.0
			1	52	19.38	19.30		19.49	19.31	0.0	19.5	22.33	22.42		22.31	22.28	0.0	23.0
			1	104	19.38	19.41		19.47	19.49	0.0	19.5	22.48	22.36		22.33	22.48	0.0	23.0
			50	0	19.41	19.35		19.43	19.47	0.0	19.5	22.17	22.34		22.19	22.18	0.0	23.0
			50	28	19.48	19.32		19.47	19.48	0.0	19.5	22.30	22.40		22.36	22.39	0.0	23.0
			50	56	19.38	19.30		19.35	19.44	0.0	19.5	22.16	22.22		22.24	22.15	0.0	23.0
		16QAM	1	1	19.29	19.28		19.45	19.28	0.0	19.5	22.23	22.21		22.19	22.22	0.0	23.0
			1	52	19.44	19.35		19.38	19.37	0.0	19.5	22.30	22.30		22.29	22.26	0.0	23.0
			1	104	19.35	19.45		19.50	19.49	0.0	19.5	22.42	22.44		22.41	22.31	0.0	23.0
64QAM	1	1	19.42	19.27		19.33	19.38	0.0	19.5	21.25	21.33		21.21	21.24	0.5	22.5		
256QAM	1	1	19.43	19.45		19.42	19.45	0.0	19.5	19.76	19.71		19.84	19.78	2.5	20.5		
CP-OFDM	QPSK	1	1	19.46	19.45		19.49	19.43	0.0	19.5	22.21	22.18		22.24	22.28	0.0	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
					2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz			2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.49	19.47	19.43	19.45	19.45	0.0	19.5	22.32	22.30	22.25	22.27	22.23	0.0	23.0
			1	39	19.43	19.40	19.44	19.31	19.24	0.0	19.5	22.27	22.25	22.35	22.40	22.29	0.0	23.0
			1	76	19.44	19.34	19.47	19.29	19.42	0.0	19.5	22.44	22.33	22.31	22.35	22.41	0.0	23.0
			36	0	19.41	19.48	19.49	19.50	19.34	0.0	19.5	22.29	22.48	22.31	22.39	22.47	0.0	23.0
			36	21	19.44	19.46	19.44	19.38	19.47	0.0	19.5	22.33	22.44	22.35	22.37	22.32	0.0	23.0
			36	42	19.44	19.45	19.28	19.33	19.36	0.0	19.5	22.26	22.24	22.22	22.24	22.14	0.0	23.0
		75	0	19.41	19.42	19.49	19.47	19.45	0.0	19.5	22.25	22.24	22.22	22.20	22.19	0.0	23.0	
		QPSK	1	1	19.50	19.36	19.42	19.44	19.50	0.0	19.5	22.30	22.31	22.38	22.33	22.24	0.0	23.0
			1	39	19.35	19.46	19.40	19.49	19.44	0.0	19.5	22.34	22.41	22.35	22.27	22.34	0.0	23.0
			1	76	19.40	19.47	19.40	19.35	19.49	0.0	19.5	22.46	22.39	22.47	22.37	22.32	0.0	23.0
			36	0	19.36	19.33	19.34	19.50	19.42	0.0	19.5	22.15	22.32	22.28	22.34	22.17	0.0	23.0
			36	21	19.40	19.29	19.46	19.41	19.31	0.0	19.5	22.27	22.36	22.34	22.38	22.28	0.0	23.0
			36	42	19.43	19.50	19.44	19.30	19.35	0.0	19.5	22.18	22.34	22.15	22.17	22.15	0.0	23.0
		75	0	19.49	19.49	19.45	19.46	19.42	0.0	19.5	22.24	22.30	22.34	22.38	22.24	0.0	23.0	
		16QAM	1	1	19.26	19.46	19.41	19.38	19.42	0.0	19.5	22.21	22.21	22.30	22.16	22.17	0.0	23.0
			1	39	19.32	19.41	19.43	19.30	19.36	0.0	19.5	22.36	22.31	22.28	22.32	22.36	0.0	23.0
1	76		19.34	19.37	19.34	19.47	19.44	0.0	19.5	22.43	22.28	22.38	22.27	22.27	0.0	23.0		
64QAM	1	1	19.35	19.38	19.43	19.31	19.41	0.0	19.5	21.32	21.40	21.30	21.27	21.34	0.5	22.5		
256QAM	1	1	19.48	19.40	19.34	19.36	19.46	0.0	19.5	19.78	19.72	19.83	19.67	19.82	2.5	20.5		
CP-OFDM	QPSK	1	1	19.49	19.47	19.46	19.49	19.48	0.0	19.5	22.15	22.11	22.18	22.11	22.26	0.0	23.0	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					501702	510150	518598	527052	535500			501702	510150	518598	527052	535500		
					2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz			2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.49	19.49	19.42	19.50	19.42	0.0	19.5	22.34	22.19	22.30	22.34	22.29	0.0	23.0
			1	32	19.31	19.43	19.39	19.44	19.27	0.0	19.5	22.25	22.31	22.30	22.29	22.27	0.0	23.0
			1	63	19.28	19.34	19.34	19.33	19.47	0.0	19.5	22.44	22.24	22.39	22.27	22.27	0.0	23.0
			32	0	19.44	19.47	19.37	19.40	19.43	0.0	19.5	22.46	22.43	22.42	22.28	22.30	0.0	23.0
			32	16	19.41	19.46	19.36	19.43	19.50	0.0	19.5	22.33	22.41	22.27	22.34	22.30	0.0	23.0
			32	33	19.29	19.28	19.33	19.34	19.45	0.0	19.5	22.25	22.33	22.30	22.19	22.17	0.0	23.0
			64	0	19.48	19.48	19.49	19.47	19.49	0.0	19.5	22.18	22.32	22.19	22.15	22.25	0.0	23.0
		QPSK	1	1	19.48	19.41	19.37	19.41	19.41	0.0	19.5	22.37	22.22	22.21	22.35	22.40	0.0	23.0
			1	32	19.45	19.31	19.42	19.30	19.44	0.0	19.5	22.36	22.43	22.40	22.40	22.38	0.0	23.0
			1	63	19.41	19.49	19.47	19.48	19.38	0.0	19.5	22.37	22.44	22.35	22.35	22.37	0.0	23.0
			32	0	19.37	19.43	19.41	19.34	19.44	0.0	19.5	22.18	22.33	22.20	22.32	22.15	0.0	23.0
			32	16	19.43	19.45	19.35	19.30	19.34	0.0	19.5	22.43	22.37	22.41	22.29	22.37	0.0	23.0
			32	33	19.40	19.32	19.34	19.40	19.41	0.0	19.5	22.20	22.35	22.28	22.26	22.19	0.0	23.0
			64	0	19.49	19.49	19.46	19.41	19.49	0.0	19.5	22.31	22.38	22.34	22.33	22.21	0.0	23.0
16QAM	1	1	19.31	19.34	19.42	19.45	19.41	0.0	19.5	22.34	22.36	22.32	22.19	22.21	0.0	23.0		
	1	32	19.45	19.40	19.36	19.38	19.37	0.0	19.5	22.30	22.34	22.33	22.27	22.29	0.0	23.0		
	1	63	19.49	19.39	19.35	19.50	19.33	0.0	19.5	22.28	22.35	22.28	22.26	22.28	0.0	23.0		
64QAM	1	1	19.39	19.33	19.41	19.27	19.37	0.0	19.5	21.40	21.34	21.33	21.41	21.22	0.5	22.5		
256QAM	1	1	19.35	19.40	19.41	19.49	19.47	0.0	19.5	19.76	19.86	19.78	19.77	19.87	2.5	20.5		
CP-OFDM	QPSK	1	1	19.47	19.44	19.47	19.47	19.46	0.0	19.5	22.14	22.26	22.12	22.22	22.17	0.0	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					501204	509904	518598	527298	535998			501204	509904	518598	527298	535998		
					2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.39	19.47	19.42	19.42	19.47	0.0	19.5	22.25	22.37	22.19	22.28	22.29	0.0	23.0
			1	25	19.42	19.30	19.44	19.33	19.29	0.0	19.5	22.37	22.29	22.33	22.32	22.28	0.0	23.0
			1	49	19.30	19.31	19.31	19.41	19.39	0.0	19.5	22.32	22.39	22.35	22.43	22.32	0.0	23.0
			25	0	19.36	19.38	19.29	19.36	19.38	0.0	19.5	22.44	22.33	22.35	22.33	22.35	0.0	23.0
			25	13	19.40	19.45	19.44	19.47	19.44	0.0	19.5	22.36	22.29	22.33	22.36	22.30	0.0	23.0
			25	26	19.26	19.39	19.39	19.44	19.42	0.0	19.5	22.34	22.16	22.22	22.17	22.22	0.0	23.0
			50	0	19.50	19.49	19.46	19.44	19.40	0.0	19.5	22.26	22.25	22.27	22.13	22.20	0.0	23.0
		QPSK	1	1	19.45	19.42	19.47	19.37	19.42	0.0	19.5	22.34	22.29	22.37	22.22	22.23	0.0	23.0
			1	25	19.33	19.45	19.38	19.30	19.30	0.0	19.5	22.29	22.37	22.24	22.34	22.25	0.0	23.0
			1	49	19.32	19.43	19.47	19.37	19.41	0.0	19.5	22.42	22.29	22.40	22.28	22.37	0.0	23.0
			25	0	19.43	19.39	19.36	19.45	19.48	0.0	19.5	22.23	22.16	22.15	22.25	22.31	0.0	23.0
			25	13	19.29	19.31	19.46	19.43	19.48	0.0	19.5	22.43	22.40	22.29	22.41	22.24	0.0	23.0
			25	26	19.31	19.47	19.36	19.49	19.47	0.0	19.5	22.34	22.35	22.19	22.23	22.21	0.0	23.0
			50	0	19.42	19.49	19.45	19.47	19.45	0.0	19.5	22.37	22.23	22.33	22.25	22.22	0.0	23.0
16QAM	1	1	19.27	19.33	19.29	19.28	19.43	0.0	19.5	22.23	22.16	22.19	22.28	22.17	0.0	23.0		
	1	25	19.46	19.33	19.32	19.40	19.42	0.0	19.5	22.31	22.29	22.35	22.34	22.28	0.0	23.0		
	1	49	19.41	19.34	19.48	19.37	19.36	0.0	19.5	22.26	22.25	22.29	22.31	22.41	0.0	23.0		
64QAM	1	1	19.28	19.28	19.41	19.30	19.35	0.0	19.5	21.23	21.30	21.40	21.23	21.37	0.5	22.5		
256QAM	1	1	19.43	19.34	19.39	19.40	19.34	0.0	19.5	19.68	19.77	19.82	19.76	19.75	2.5	20.5		
CP-OFDM	QPSK	1	1	19.50	19.40	19.31	19.46	19.33	0.0	19.5	22.14	22.21	22.22	22.25	22.15	0.0	23.0	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
					2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.27	19.42	19.45	19.42	19.48	0.0	19.5	22.28	22.38	22.24	22.22	22.36	0.0	23.0
			1	18	19.28	19.30	19.44	19.23	19.27	0.0	19.5	22.31	22.35	22.33	22.37	22.27	0.0	23.0
			1	36	19.32	19.37	19.40	19.33	19.30	0.0	19.5	22.34	22.43	22.37	22.32	21.91	0.0	23.0
			18	0	19.15	19.39	19.47	19.48	19.31	0.0	19.5	22.38	22.38	22.30	22.35	22.23	0.0	23.0
			18	10	19.32	19.44	19.42	19.37	19.21	0.0	19.5	22.35	22.40	22.36	22.43	22.24	0.0	23.0
			18	20	19.15	19.38	19.27	19.38	19.29	0.0	19.5	22.24	22.17	22.31	22.20	21.65	0.0	23.0
			36	0	19.15	19.47	19.45	19.38	19.43	0.0	19.5	22.23	22.13	22.27	22.21	22.06	0.0	23.0
		QPSK	1	1	19.13	19.41	19.45	19.32	19.46	0.0	19.5	22.31	22.40	22.22	22.31	22.43	0.0	23.0
			1	18	19.18	19.44	19.34	19.48	19.28	0.0	19.5	22.34	22.26	22.41	22.37	21.83	0.0	23.0
			1	36	19.24	19.31	19.41	19.47	19.36	0.0	19.5	22.38	22.38	22.44	22.32	20.75	0.0	23.0
			18	0	19.13	19.37	19.46	19.50	19.38	0.0	19.5	22.24	22.34	22.28	22.29	21.44	0.0	23.0
			18	10	19.24	19.42	19.31	19.48	19.45	0.0	19.5	22.34	22.39	22.40	22.33	21.77	0.0	23.0
			18	20	19.16	19.37	19.49	19.44	19.47	0.0	19.5	22.25	22.29	22.32	22.30	20.54	0.0	23.0
			36	0	19.15	19.50	19.38	19.44	19.41	0.0	19.5	22.29	22.24	22.38	22.22	21.06	0.0	23.0
		16QAM	1	1	19.11	19.27	19.32	19.45	19.36	0.0	19.5	22.26	22.32	22.35	22.16	21.94	0.0	23.0
			1	18	19.18	19.44	19.48	19.38	19.43	0.0	19.5	22.28	22.33	22.28	22.24	21.07	0.0	23.0
			1	36	19.22	19.44	19.49	19.38	19.33	0.0	19.5	22.34	22.41	22.25	22.30	21.54	0.0	23.0
64QAM	1	1	19.16	19.44	19.31	19.35	19.37	0.0	19.5	21.31	21.29	21.34	21.25	20.74	0.5	22.5		
256QAM	1	1	19.21	19.37	19.39	19.38	19.44	0.0	19.5	19.77	19.87	19.70	19.82	19.36	2.5	20.5		
CP-OFDM	QPSK	1	1	19.25	19.47	19.46	19.31	19.41	0.0	19.5	22.18	22.14	22.13	22.20	21.63	0.0	23.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					500202	509400	518598	527802	537000			500202	509400	518598	527802	537000		
					2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz			2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.42	19.18	19.01	18.99	19.11	0.0	19.5	22.38	22.14	22.03	22.09	22.12	0.0	23.0
			1	12	19.43	19.17	18.98	19.04	19.16	0.0	19.5	22.34	22.28	21.95	22.12	22.26	0.0	23.0
			1	22	19.42	19.21	19.03	19.08	19.24	0.0	19.5	22.44	22.37	22.02	22.18	21.87	0.0	23.0
			12	0	19.32	19.08	18.93	18.85	19.14	0.0	19.5	22.30	21.72	21.89	21.92	22.05	0.0	23.0
			12	6	19.41	19.24	19.05	19.06	19.24	0.0	19.5	22.39	21.89	22.01	22.14	22.14	0.0	23.0
			12	12	19.42	19.16	18.97	19.00	19.12	0.0	19.5	22.34	22.03	21.91	22.09	21.46	0.0	23.0
			24	0	19.33	19.12	18.93	18.99	19.08	0.0	19.5	22.28	21.75	21.88	22.04	21.73	0.0	23.0
		QPSK	1	1	19.47	19.28	19.12	19.02	19.17	0.0	19.5	22.45	21.83	22.07	22.14	22.26	0.0	23.0
			1	12	19.47	19.24	19.08	19.08	19.22	0.0	19.5	22.41	22.05	22.03	22.15	21.62	0.0	23.0
			1	22	19.30	19.31	19.11	19.15	19.18	0.0	19.5	22.51	22.18	22.11	22.21	21.34	0.0	23.0
			12	0	19.38	19.16	18.98	18.93	19.18	0.0	19.5	22.33	21.88	21.94	21.86	22.03	0.0	23.0
			12	6	19.42	19.26	18.96	19.15	19.22	0.0	19.5	22.37	21.78	22.05	22.15	21.98	0.0	23.0
			12	12	19.43	19.20	19.02	19.07	19.20	0.0	19.5	22.41	21.92	21.95	21.82	20.64	0.0	23.0
			24	0	19.39	19.18	18.99	19.06	19.23	0.0	19.5	22.38	21.72	21.98	21.82	20.79	0.0	23.0
		16QAM	1	1	19.37	19.06	19.02	19.05	19.14	0.0	19.5	22.39	22.10	22.04	22.07	22.09	0.0	23.0
			1	12	19.43	19.38	19.02	19.04	19.17	0.0	19.5	22.38	22.06	21.98	22.13	20.92	0.0	23.0
			1	22	19.45	19.47	19.04	19.03	19.22	0.0	19.5	22.42	22.14	22.05	22.02	20.55	0.0	23.0
64QAM	1	1	19.42	19.09	19.04	19.06	19.11	0.0	19.5	21.76	21.35	21.54	21.41	20.65	0.5	22.5		
256QAM	1	1	19.41	19.36	19.02	19.04	19.12	0.0	19.5	19.86	19.61	19.51	19.54	19.59	2.5	20.5		
CP-OFDM	QPSK	1	1	19.47	19.34	19.07	19.12	18.86	0.0	19.5	22.54	22.03	22.11	22.13	20.98	0.0	23.0	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						Maximum Allowed Average Power (dBm)						Maximum Allowed Average Power (dBm)								
					DSI = 0						DSI = 1						DSI = 2,3								
					Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					518598	2592.99 MHz						518598	2592.99 MHz						518598	2592.99 MHz					
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1		16.45		0.0	17.5		18.24		0.0	19.0		24.35		0.0	25.0						
			1	136		16.80		0.0	17.5		18.05		0.0	19.0		23.82		0.0	25.0						
			1	271		16.48		0.0	17.5		18.32		0.0	19.0		23.28		0.0	25.0						
			135	0		16.84		0.0	17.5		18.24		0.0	19.0		23.91		0.5	24.5						
			135	69		16.85		0.0	17.5		18.21		0.0	19.0		24.11		0.0	25.0						
			135	138		16.72		0.0	17.5		18.22		0.0	19.0		23.05		0.5	24.5						
			270	0		16.90		0.0	17.5		18.33		0.0	19.0		23.41		0.5	24.5						
		QPSK	1	1		16.80		0.0	17.5		18.46		0.0	19.0		24.43		0.0	25.0						
			1	136		17.05		0.0	17.5		18.18		0.0	19.0		24.05		0.0	25.0						
			1	271		16.77		0.0	17.5		18.37		0.0	19.0		24.21		0.0	25.0						
			135	0		17.05		0.0	17.5		18.28		0.0	19.0		23.06		1.0	24.0						
			135	69		17.05		0.0	17.5		18.29		0.0	19.0		23.95		0.0	25.0						
			135	138		16.97		0.0	17.5		18.24		0.0	19.0		22.26		1.0	24.0						
			270	0		17.11		0.0	17.5		18.34		0.0	19.0		23.26		1.0	24.0						
		16QAM	1	1		16.57		0.0	17.5		18.26		0.0	19.0		23.35		1.0	24.0						
			1	136		16.97		0.0	17.5		18.11		0.0	19.0		22.51		1.0	24.0						
			1	271		16.77		0.0	17.5		18.42		0.0	19.0		22.46		1.0	24.0						
		64QAM	1	1		16.92		0.0	17.5		18.38		0.0	19.0		21.91		2.5	22.5						
1	1			16.96		0.0	17.5		18.38		0.0	19.0		19.95		4.5	20.5								
CP-OFDM	QPSK	1	1		17.11		0.0	17.5		18.42		0.0	19.0		22.98		1.5	23.5							
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.33		16.80	0.0	17.5	17.60		18.44	0.0	19.0	24.31		24.23	0.0	25.0						
			1	122	16.39		16.61	0.0	17.5	18.09		18.11	0.0	19.0	23.92		23.79	0.0	25.0						
			1	243	16.41		16.71	0.0	17.5	18.50		18.09	0.0	19.0	23.66		24.18	0.0	25.0						
			120	0	16.59		16.59	0.0	17.5	17.73		18.23	0.0	19.0	22.73		23.39	0.5	24.5						
			120	62	16.66		16.62	0.0	17.5	18.13		18.18	0.0	19.0	23.48		24.12	0.0	25.0						
			120	125	16.52		16.61	0.0	17.5	18.26		18.05	0.0	19.0	22.76		23.71	0.5	24.5						
			243	0	16.39		16.75	0.0	17.5	18.15		18.29	0.0	19.0	22.65		23.42	0.5	24.5						
		QPSK	1	1	16.49		16.72	0.0	17.5	18.22		18.62	0.0	19.0	24.14		24.05	0.0	25.0						
			1	122	16.36		16.81	0.0	17.5	18.21		18.15	0.0	19.0	23.70		24.05	0.0	25.0						
			1	243	16.48		16.87	0.0	17.5	18.60		18.29	0.0	19.0	23.41		24.02	0.0	25.0						
			120	0	16.44		16.62	0.0	17.5	17.86		18.31	0.0	19.0	22.41		23.10	1.0	24.0						
			120	62	16.52		16.77	0.0	17.5	18.21		18.23	0.0	19.0	23.33		23.98	0.0	25.0						
			120	125	16.41		16.71	0.0	17.5	18.33		18.08	0.0	19.0	22.60		22.91	1.0	24.0						
			243	0	16.59		16.79	0.0	17.5	18.17		18.45	0.0	19.0	22.44		22.98	1.0	24.0						
		16QAM	1	1	16.26		16.73	0.0	17.5	17.75		18.13	0.0	19.0	23.48		23.13	1.0	24.0						
			1	122	16.36		16.74	0.0	17.5	18.11		18.20	0.0	19.0	23.26		23.12	1.0	24.0						
			1	243	16.40		16.63	0.0	17.5	18.50		18.12	0.0	19.0	22.89		22.84	1.0	24.0						
		64QAM	1	1	16.39		16.38	0.0	17.5	17.74		18.51	0.0	19.0	22.09		21.45	2.5	22.5						
256QAM	1	1	16.58		16.48	0.0	17.5	17.81		18.02	0.0	19.0	19.99		19.55	4.5	20.5								
CP-OFDM	QPSK	1	1	16.52		16.36	0.0	17.5	17.73		18.61	0.0	19.0	22.91		22.54	1.5	23.5							

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit						
					507204		529998				507204		529998									
					2536.02 MHz		2649.99 MHz				2536.02 MHz		2649.99 MHz									
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.39			16.55	0.0	17.5	17.67			18.49	0.0	19.0	24.26			24.23	0.0	25.0
			1	108	16.47			16.61	0.0	17.5	18.07			17.97	0.0	19.0	24.00			23.74	0.0	25.0
			1	215	16.60			16.58	0.0	17.5	18.61			18.14	0.0	19.0	23.61			24.23	0.0	25.0
			108	0	16.43			16.66	0.0	17.5	17.63			18.11	0.0	19.0	22.71			23.36	0.5	24.5
			108	54	16.62			16.80	0.0	17.5	18.01			18.03	0.0	19.0	23.34			24.06	0.0	25.0
			108	109	16.55			16.64	0.0	17.5	18.31			18.16	0.0	19.0	22.68			23.58	0.5	24.5
			216	0	16.41			16.56	0.0	17.5	18.22			18.30	0.0	19.0	22.67			23.44	0.5	24.5
		QPSK	1	1	16.53			16.86	0.0	17.5	18.36			18.74	0.0	19.0	24.10			24.02	0.0	25.0
			1	108	16.36			16.74	0.0	17.5	18.24			18.02	0.0	19.0	23.68			24.15	0.0	25.0
			1	215	16.62			16.78	0.0	17.5	18.59			18.25	0.0	19.0	23.46			24.12	0.0	25.0
			108	0	16.35			16.60	0.0	17.5	17.77			18.28	0.0	19.0	22.52			22.99	1.0	24.0
			108	54	16.36			16.69	0.0	17.5	18.32			18.26	0.0	19.0	23.31			23.92	0.0	25.0
			108	109	16.50			16.52	0.0	17.5	18.19			18.20	0.0	19.0	22.65			22.94	1.0	24.0
			216	0	16.48			16.68	0.0	17.5	18.21			18.37	0.0	19.0	22.44			23.05	1.0	24.0
		16QAM	1	1	16.44			16.81	0.0	17.5	17.76			18.05	0.0	19.0	23.52			23.14	1.0	24.0
			1	108	16.51			16.75	0.0	17.5	18.18			18.10	0.0	19.0	23.26			23.04	1.0	24.0
			1	215	16.43			16.54	0.0	17.5	18.44			18.05	0.0	19.0	22.86			22.73	1.0	24.0
		64QAM	1	1	16.35			16.42	0.0	17.5	17.84			18.41	0.0	19.0	21.98			21.44	2.5	22.5
			1	1	16.59			16.54	0.0	17.5	17.74			18.10	0.0	19.0	19.96			19.48	4.5	20.5
		CP-OFDM	QPSK	1	1	16.58			16.46	0.0	17.5	17.81			18.51	0.0	19.0	22.88			22.54	1.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit						
					506202		531000				506202		531000									
					2531.01 MHz		2655.00 MHz				2531.01 MHz		2655.00 MHz									
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.36			16.72	0.0	17.5	17.49			18.52	0.0	19.0	24.22			24.24	0.0	25.0
			1	94	16.36			16.62	0.0	17.5	18.02			18.11	0.0	19.0	23.65			23.83	0.0	25.0
			1	187	16.64			16.50	0.0	17.5	18.63			18.12	0.0	19.0	23.70			24.12	0.0	25.0
			90	0	16.57			16.67	0.0	17.5	17.81			18.10	0.0	19.0	22.60			23.45	0.5	24.5
			90	49	16.66			16.69	0.0	17.5	18.13			18.04	0.0	19.0	23.46			24.04	0.0	25.0
			90	99	16.58			16.55	0.0	17.5	18.34			17.90	0.0	19.0	22.65			23.67	0.5	24.5
			180	0	16.42			16.48	0.0	17.5	18.15			18.17	0.0	19.0	22.57			23.42	0.5	24.5
		QPSK	1	1	16.41			16.79	0.0	17.5	18.22			18.60	0.0	19.0	24.17			24.01	0.0	25.0
			1	94	16.35			16.75	0.0	17.5	18.21			18.14	0.0	19.0	23.59			24.17	0.0	25.0
			1	187	16.58			16.86	0.0	17.5	18.64			18.34	0.0	19.0	23.44			24.12	0.0	25.0
			90	0	16.61			16.59	0.0	17.5	17.79			18.30	0.0	19.0	22.42			23.03	1.0	24.0
			90	49	16.56			16.83	0.0	17.5	18.24			18.28	0.0	19.0	23.34			24.04	0.0	25.0
			90	99	16.55			16.74	0.0	17.5	18.45			17.96	0.0	19.0	22.59			23.02	1.0	24.0
			180	0	16.35			16.83	0.0	17.5	18.20			18.33	0.0	19.0	22.43			22.96	1.0	24.0
		16QAM	1	1	16.32			16.74	0.0	17.5	17.67			18.23	0.0	19.0	23.43			23.22	1.0	24.0
			1	94	16.29			16.69	0.0	17.5	18.02			18.15	0.0	19.0	23.21			23.07	1.0	24.0
			1	187	16.36			16.53	0.0	17.5	18.38			18.03	0.0	19.0	22.91			22.84	1.0	24.0
		64QAM	1	1	16.33			16.39	0.0	17.5	17.66			18.52	0.0	19.0	22.04			21.55	2.5	22.5
			1	1	16.35			16.71	0.0	17.5	17.74			17.95	0.0	19.0	20.01			19.54	4.5	20.5
		CP-OFDM	QPSK	1	1	16.39			16.37	0.0	17.5	17.69			18.71	0.0	19.0	22.90			22.56	1.5

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					506200	518598	531996			506200	518598	531996			506200	518598	531996		
					2526.00 MHz	2592.99 MHz	2659.98 MHz			2526.00 MHz	2592.99 MHz	2659.98 MHz			2526.00 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.37	17.13	16.63	0.0	17.5	17.68	18.22	18.39	0.0	19.0	24.18	24.21	24.12	0.0	25.0
			1	80	16.38	16.99	16.43	0.0	17.5	18.07	18.03	18.02	0.0	19.0	23.92	23.82	23.73	0.0	25.0
			1	160	16.37	17.23	16.75	0.0	17.5	18.80	18.36	18.19	0.0	19.0	23.59	23.37	24.24	0.0	25.0
			81	0	16.37	17.12	16.64	0.0	17.5	17.73	18.24	18.11	0.0	19.0	22.60	23.01	23.47	0.5	24.5
			81	40	16.60	17.14	16.67	0.0	17.5	18.23	18.20	18.21	0.0	19.0	23.42	23.27	24.09	0.0	25.0
			81	81	16.59	17.36	16.49	0.0	17.5	18.30	18.37	18.18	0.0	19.0	22.64	22.78	23.71	0.5	24.5
			162	0	16.51	17.27	16.69	0.0	17.5	18.16	18.35	18.22	0.0	19.0	22.65	22.84	23.51	0.5	24.5
		QPSK	1	1	16.61	17.32	16.85	0.0	17.5	18.17	18.34	18.47	0.0	19.0	24.22	24.10	24.10	0.0	25.0
			1	80	16.36	17.32	16.67	0.0	17.5	18.22	18.10	18.29	0.0	19.0	23.64	23.81	24.14	0.0	25.0
			1	160	16.59	17.33	16.82	0.0	17.5	18.67	18.49	18.18	0.0	19.0	23.48	24.09	24.07	0.0	25.0
			81	0	16.59	17.12	16.84	0.0	17.5	17.94	18.26	18.33	0.0	19.0	22.51	22.52	23.02	1.0	24.0
			81	40	16.43	17.08	16.68	0.0	17.5	18.35	18.31	18.27	0.0	19.0	23.24	22.98	23.91	0.0	25.0
			81	81	16.42	17.10	16.77	0.0	17.5	18.37	18.34	18.00	0.0	19.0	22.62	22.87	23.03	1.0	24.0
			162	0	16.42	16.98	16.59	0.0	17.5	18.30	18.29	18.48	0.0	19.0	22.50	22.42	23.02	1.0	24.0
		16QAM	1	1	16.30	17.22	16.78	0.0	17.5	17.90	18.31	18.25	0.0	19.0	23.42	23.02	23.13	1.0	24.0
			1	80	16.47	17.25	16.63	0.0	17.5	18.18	18.17	18.35	0.0	19.0	23.36	22.64	23.16	1.0	24.0
			1	160	16.31	17.24	16.71	0.0	17.5	18.52	18.53	18.05	0.0	19.0	22.88	22.27	22.86	1.0	24.0
		64QAM	1	1	16.32	17.10	16.51	0.0	17.5	17.77	18.41	18.42	0.0	19.0	21.98	21.58	21.52	2.5	22.5
		256QAM	1	1	16.36	17.45	16.48	0.0	17.5	17.91	18.28	18.00	0.0	19.0	19.99	19.82	19.48	4.5	20.5
		CP-OFDM	QPSK	1	1	16.46	17.30	16.28	0.0	17.5	17.83	18.41	18.73	0.0	19.0	22.90	22.52	22.56	1.5
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.40	17.27	16.80	0.0	17.5	17.47	18.35	18.58	0.0	19.0	24.17	24.13	24.10	0.0	25.0
			1	66	16.38	17.17	16.66	0.0	17.5	18.09	18.17	18.23	0.0	19.0	23.93	23.84	23.67	0.0	25.0
			1	131	16.48	17.10	16.78	0.0	17.5	18.60	18.18	17.99	0.0	19.0	23.73	23.42	24.14	0.0	25.0
			64	0	16.58	17.32	16.60	0.0	17.5	17.72	18.23	18.09	0.0	19.0	22.63	22.93	23.45	0.5	24.5
			64	34	16.60	17.06	16.61	0.0	17.5	18.09	18.16	18.08	0.0	19.0	23.38	23.39	24.13	0.0	25.0
			64	69	16.50	17.09	16.61	0.0	17.5	18.15	18.16	18.04	0.0	19.0	22.80	22.94	23.73	0.5	24.5
			128	0	16.44	17.10	16.58	0.0	17.5	18.03	18.48	18.40	0.0	19.0	22.65	22.83	23.43	0.5	24.5
		QPSK	1	1	16.41	17.24	16.62	0.0	17.5	18.35	18.56	18.63	0.0	19.0	24.17	24.03	24.08	0.0	25.0
			1	66	16.43	17.18	16.65	0.0	17.5	18.34	18.32	18.26	0.0	19.0	23.57	23.85	24.15	0.0	25.0
			1	131	16.58	17.28	16.88	0.0	17.5	18.56	18.31	18.29	0.0	19.0	23.48	24.07	24.02	0.0	25.0
			64	0	16.49	17.09	16.74	0.0	17.5	17.80	18.31	18.28	0.0	19.0	22.53	22.59	23.11	1.0	24.0
			64	34	16.47	17.19	16.83	0.0	17.5	18.08	18.17	18.13	0.0	19.0	23.39	23.08	23.93	0.0	25.0
			64	69	16.58	17.30	16.75	0.0	17.5	18.23	18.19	18.21	0.0	19.0	22.65	22.86	23.02	1.0	24.0
			128	0	16.38	16.98	16.82	0.0	17.5	18.15	18.41	18.40	0.0	19.0	22.43	22.40	23.07	1.0	24.0
		16QAM	1	1	16.51	17.11	16.77	0.0	17.5	17.74	18.29	18.16	0.0	19.0	23.39	23.05	23.14	1.0	24.0
			1	66	16.57	17.05	16.78	0.0	17.5	18.05	18.06	18.33	0.0	19.0	23.36	22.62	23.15	1.0	24.0
			1	131	16.50	17.29	16.73	0.0	17.5	18.51	18.46	18.08	0.0	19.0	22.98	22.21	22.79	1.0	24.0
		64QAM	1	1	16.29	17.24	16.59	0.0	17.5	17.71	18.28	18.60	0.0	19.0	22.07	21.49	21.44	2.5	22.5
		256QAM	1	1	16.52	17.26	16.44	0.0	17.5	17.85	18.27	18.04	0.0	19.0	20.04	19.75	19.54	4.5	20.5
		CP-OFDM	QPSK	1	1	16.61	17.33	16.18	0.0	17.5	17.75	18.29	18.46	0.0	19.0	22.89	22.48	22.51	1.5

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					503202	513468		523734	534000			503202	513468		523734	534000			503202	513468		523734	534000		
					2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.29	16.50		16.85	16.72	0.0	17.5	18.01	18.69		18.96	17.94	0.0	19.0	24.22	24.28		24.11	24.22	0.0	25.0
			1	52	16.24	16.85		16.86	16.68	0.0	17.5	18.40	18.80		18.68	18.07	0.0	19.0	23.93	24.39		23.80	23.77	0.0	25.0
			1	104	16.47	16.85		16.93	16.57	0.0	17.5	18.57	18.94		18.55	18.06	0.0	19.0	23.72	24.61		23.69	24.21	0.0	25.0
			50	0	16.49	16.73		16.78	16.59	0.0	17.5	18.23	18.73		18.80	18.19	0.0	19.0	22.66	23.92		23.54	23.32	0.5	24.5
			50	28	16.51	16.75		16.84	16.73	0.0	17.5	18.50	18.88		18.77	18.25	0.0	19.0	23.52	24.55		23.99	24.17	0.0	25.0
			50	56	16.35	16.89		17.01	16.58	0.0	17.5	18.51	18.95		18.64	18.07	0.0	19.0	22.74	24.02		23.15	23.71	0.5	24.5
		QPSK	100	0	16.59	16.68		16.76	16.47	0.0	17.5	18.44	18.88		18.85	18.30	0.0	19.0	22.62	23.89		23.34	23.49	0.5	24.5
			1	1	16.43	16.99		16.98	16.68	0.0	17.5	18.31	18.69		18.97	18.28	0.0	19.0	24.06	24.29		23.84	24.08	0.0	25.0
			1	52	16.42	16.97		17.06	16.65	0.0	17.5	18.43	18.79		18.66	18.19	0.0	19.0	23.61	24.38		23.96	24.24	0.0	25.0
			1	104	16.38	17.14		16.89	16.86	0.0	17.5	18.64	18.95		18.50	18.21	0.0	19.0	23.42	24.47		23.67	23.98	0.0	25.0
			50	0	16.37	16.85		17.00	16.73	0.0	17.5	18.65	18.73		18.79	18.21	0.0	19.0	22.53	23.49		22.88	23.10	1.0	24.0
			50	28	16.34	16.85		17.02	16.67	0.0	17.5	18.49	18.93		18.75	18.23	0.0	19.0	23.28	24.32		23.15	23.88	0.0	25.0
		16QAM	50	56	16.57	16.95		16.92	16.50	0.0	17.5	18.46	18.97		18.66	18.12	0.0	19.0	22.63	23.48		22.22	22.98	1.0	24.0
			100	0	16.34	16.82		16.95	16.84	0.0	17.5	18.59	18.97		18.90	18.27	0.0	19.0	22.47	23.63		22.91	23.04	1.0	24.0
			1	1	16.43	16.88		16.86	16.92	0.0	17.5	18.49	18.57		18.87	18.24	0.0	19.0	23.42	23.40		22.81	23.04	1.0	24.0
		64QAM	1	52	16.42	17.12		16.92	16.65	0.0	17.5	18.62	18.81		18.73	18.17	0.0	19.0	23.23	23.37		22.50	23.12	1.0	24.0
			1	104	16.31	17.00		16.84	16.78	0.0	17.5	18.48	18.94		18.48	18.15	0.0	19.0	22.85	23.53		22.68	22.78	1.0	24.0
			1	1	16.47	16.89		16.56	16.47	0.0	17.5	18.54	18.62		18.80	18.21	0.0	19.0	21.94	21.90		21.52	21.44	2.5	22.5
256QAM	1	1	16.48	17.09		16.62	16.70	0.0	17.5	18.56	18.64		18.92	18.17	0.0	19.0	20.13	19.97		19.50	19.50	4.5	20.5		
CP-OFDM	QPSK	1	1	16.40	17.06		16.99	16.41	0.0	17.5	18.54	18.79		18.99	18.32	0.0	19.0	22.92	23.02		22.26	22.54	1.5	23.5	

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					502200	510402	518598	526800	534996			502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
					2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz			2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz			2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.29	16.52	17.25	17.07	16.77	0.0	17.5	18.29	18.50	18.74	18.44	17.96	0.0	19.0	24.21	24.31	24.12	24.08	24.25	0.0	25.0
			1	39	16.18	16.66	17.02	16.94	16.49	0.0	17.5	18.40	18.68	18.82	18.33	18.04	0.0	19.0	23.95	24.40	23.82	23.82	23.78	0.0	25.0
			1	76	16.46	16.82	17.09	16.90	16.68	0.0	17.5	18.75	18.81	18.78	18.27	18.11	0.0	19.0	23.68	24.57	23.52	23.70	24.21	0.0	25.0
			36	0	16.32	16.64	17.28	16.74	16.52	0.0	17.5	18.74	18.57	18.76	18.37	18.08	0.0	19.0	22.63	23.94	23.00	23.52	23.36	0.5	24.5
			36	21	16.42	16.66	17.20	16.98	16.77	0.0	17.5	18.55	18.62	18.87	18.44	18.13	0.0	19.0	23.48	24.54	23.26	24.01	24.16	0.0	25.0
			36	42	16.48	16.69	17.36	16.93	16.44	0.0	17.5	18.59	18.67	18.85	18.41	18.06	0.0	19.0	22.77	23.98	22.79	23.15	23.68	0.5	24.5
		QPSK	75	0	16.48	16.48	17.18	16.95	16.73	0.0	17.5	18.49	18.67	18.91	18.40	18.15	0.0	19.0	22.60	23.89	22.87	23.37	23.52	0.5	24.5
			1	1	16.39	16.73	17.16	16.92	16.68	0.0	17.5	18.64	18.73	18.93	18.65	18.28	0.0	19.0	24.09	24.31	24.13	23.84	24.05	0.0	25.0
			1	39	16.53	17.09	17.10	17.12	16.78	0.0	17.5	18.70	18.82	18.91	18.60	18.28	0.0	19.0	23.64	24.34	23.78	23.94	24.21	0.0	25.0
			1	76	16.39	17.20	17.19	17.07	16.58	0.0	17.5	18.89	18.79	18.95	18.42	18.22	0.0	19.0	23.45	24.48	24.08	23.68	24.01	0.0	25.0
			36	0	16.57	16.88	17.16	16.86	16.63	0.0	17.5	18.51	18.66	18.90	18.60	18.16	0.0	19.0	22.51	23.52	22.51	22.68	23.11	1.0	24.0
			36	21	16.48	17.05	17.19	17.00	16.88	0.0	17.5	18.64	18.85	18.98	18.58	18.20	0.0	19.0	23.27	24.36	23.08	23.16	23.88	0.0	25.0
		16QAM	36	42	16.58	16.87	17.29	16.94	16.58	0.0	17.5	18.68	18.70	18.99	18.47	18.13	0.0	19.0	22.59	23.52	22.75	22.23	23.02	1.0	24.0
			75	0	16.34	16.77	17.22	16.94	16.61	0.0	17.5	18.59	18.78	18.98	18.43	18.20	0.0	19.0	22.51	23.60	22.43	22.92	23.07	1.0	24.0
			1	1	16.33	16.92	17.09	16.89	16.65	0.0	17.5	18.58	18.71	18.97	18.75	18.28	0.0	19.0	23.42	23.39	22.97	22.77	23.07	1.0	24.0
		64QAM	1	39	16.36	16.94	17.12	16.82	16.70	0.0	17.5	18.66	18.79	18.91	18.61	18.15	0.0	19.0	23.23	23.39	22.57	22.49	23.10	1.0	24.0
			1	76	16.38	17.00	17.21	16.92	16.75	0.0	17.5	18.81	18.80	18.85	18.36	18.19	0.0	19.0	22.87	23.55	22.18	22.67	22.77	1.0	24.0
			1	1	16.37	17.08	17.35	16.61	16.57	0.0	17.5	18.62	18.74	18.99	18.69	18.28	0.0	19.0	21.97	21.93	21.52	21.55	21.45	2.5	22.5
256QAM	1	1	16.62	16.92	17.46	16.61	16.52	0.0	17.5	18.61	18.71	18.93	18.62	18.25	0.0	19.0	20.09	19.97	19.70	19.54	19.52	4.5	20.5		
CP-OFDM	QPSK	1	1	16.48	17.12	17.10	17.01	16.17	0.0	17.5	18.63	18.85	18.99	18.89	18.38	0.0	19.0	22.90	22.98	22.52	22.29	22.57	1.5	23.5	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
					501702	510150	518598	527052	535500			501702	510150	518598	527052	535500			501702	510150	518598	527052	535500			
					2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz			2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz			2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz			
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.42	16.57	17.03	16.78	16.65	0.0	17.5	18.68	18.27	18.07	18.18	17.94	0.0	19.0	24.17	24.21	24.12	24.13	24.10	0.0	25.0	
			1	32	16.18	16.66	17.15	16.88	16.57	0.0	17.5	18.56	18.32	18.16	17.80	18.06	0.0	19.0	24.00	24.29	23.78	23.83	23.80	0.0	25.0	
			1	63	16.40	16.84	17.11	17.11	16.72	0.0	17.5	18.66	18.45	18.31	18.05	18.28	0.0	19.0	23.61	24.44	23.46	23.73	24.12	0.0	25.0	
			32	0	16.39	16.70	17.30	16.71	16.53	0.0	17.5	18.53	18.26	18.24	17.91	18.12	0.0	19.0	22.61	24.02	23.04	23.53	23.38	0.5	24.5	
			32	16	16.62	16.72	17.16	17.00	16.53	0.0	17.5	18.58	18.21	18.22	18.13	18.15	0.0	19.0	23.48	24.57	23.34	23.94	24.01	0.0	25.0	
			32	33	16.46	16.59	17.33	17.03	16.53	0.0	17.5	18.35	18.49	18.25	18.15	18.20	0.0	19.0	22.75	24.04	22.88	23.08	23.57	0.5	24.5	
				64	0	16.48	16.66	17.31	16.72	16.49	0.0	17.5	18.50	18.16	18.15	17.98	18.16	0.0	19.0	22.64	23.85	22.87	23.22	23.46	0.5	24.5
				1	1	16.45	16.93	17.20	16.74	16.65	0.0	17.5	18.60	18.51	18.46	18.22	18.37	0.0	19.0	24.22	24.31	24.12	23.75	23.99	0.0	25.0
				1	32	16.50	16.95	17.23	16.96	16.77	0.0	17.5	18.57	18.36	18.41	18.16	18.25	0.0	19.0	23.57	24.28	23.77	23.82	24.14	0.0	25.0
				1	63	16.32	17.00	17.12	17.14	16.71	0.0	17.5	18.56	18.53	18.51	18.35	18.36	0.0	19.0	23.50	24.40	23.99	23.74	24.02	0.0	25.0
				32	0	16.40	17.06	17.10	16.96	16.86	0.0	17.5	18.40	18.36	18.22	18.18	18.16	0.0	19.0	22.46	23.42	22.44	22.71	23.13	1.0	24.0
				32	16	16.43	16.98	17.11	16.89	16.66	0.0	17.5	18.52	18.44	18.38	18.30	18.21	0.0	19.0	23.33	24.28	23.06	23.11	23.88	0.0	25.0
				32	33	16.50	16.98	17.12	16.77	16.66	0.0	17.5	18.57	18.35	18.30	18.23	18.15	0.0	19.0	22.59	23.58	22.87	22.37	22.89	1.0	24.0
				64	0	16.44	17.02	17.09	16.67	16.60	0.0	17.5	18.40	18.43	18.26	18.22	18.23	0.0	19.0	22.46	23.45	22.45	22.89	23.04	1.0	24.0
				16QAM	1	1	16.27	17.14	17.07	16.93	16.77	0.0	17.5	18.62	18.48	18.41	18.35	18.28	0.0	19.0	23.53	23.39	23.08	22.79	23.19	1.0
		16QAM	1	32	16.57	17.08	17.23	16.89	16.61	0.0	17.5	18.59	18.41	18.27	18.15	18.28	0.0	19.0	23.30	23.35	22.68	22.57	23.05	1.0	24.0	
		16QAM	1	63	16.59	17.20	17.00	17.06	16.56	0.0	17.5	18.61	18.32	18.43	18.23	18.27	0.0	19.0	22.90	23.58	22.23	22.65	22.75	1.0	24.0	
		64QAM	1	1	16.52	16.82	17.16	16.81	16.42	0.0	17.5	18.39	18.31	18.41	18.29	18.27	0.0	19.0	22.03	21.94	21.52	21.61	21.58	2.5	22.5	
		256QAM	1	1	16.44	16.97	17.33	16.59	16.46	0.0	17.5	18.52	18.37	18.35	18.29	18.32	0.0	19.0	20.10	20.03	19.83	19.52	19.58	4.5	20.5	
	CP-OFDM	QPSK	1	1	16.57	17.20	17.14	17.05	16.19	0.0	17.5	18.66	18.39	18.32	18.37	18.18	0.0	19.0	23.02	22.96	22.57	22.38	22.59	1.5	23.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
					501204	509904	518598	527298	535998			501204	509904	518598	527298	535998			501204	509904	518598	527298	535998			
					2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.30	16.53	17.14	16.93	16.77	0.0	17.5	18.68	18.29	18.19	18.15	18.03	0.0	19.0	24.24	24.33	24.21	24.03	24.23	0.0	25.0	
			1	25	16.19	16.77	17.06	16.93	16.56	0.0	17.5	18.50	18.26	18.11	17.74	18.08	0.0	19.0	23.96	24.36	23.82	23.91	23.74	0.0	25.0	
			1	49	16.66	16.79	17.07	16.97	16.76	0.0	17.5	18.62	18.48	18.20	18.15	18.32	0.0	19.0	23.65	24.49	23.52	23.78	24.18	0.0	25.0	
			25	0	16.47	16.78	17.31	16.83	16.72	0.0	17.5	18.50	18.28	18.11	17.92	18.11	0.0	19.0	22.68	24.05	22.98	23.43	23.49	0.5	24.5	
			25	13	16.58	16.84	17.30	16.75	16.61	0.0	17.5	18.58	18.30	18.23	18.05	18.23	0.0	19.0	23.32	24.56	23.40	23.87	24.16	0.0	25.0	
			25	26	16.50	16.85	17.23	16.86	16.44	0.0	17.5	18.41	18.38	18.20	18.16	18.19	0.0	19.0	22.73	24.00	22.80	23.13	23.57	0.5	24.5	
				50	0	16.51	16.47	17.31	16.82	16.49	0.0	17.5	18.45	18.29	18.26	18.09	18.21	0.0	19.0	22.63	23.92	22.89	23.28	23.48	0.5	24.5
				1	1	16.33	16.85	17.36	16.74	16.77	0.0	17.5	18.53	18.38	18.42	18.11	18.21	0.0	19.0	24.08	24.44	24.04	23.74	24.12	0.0	25.0
				1	25	16.52	17.08	17.29	17.10	16.56	0.0	17.5	18.48	18.30	18.40	18.13	18.24	0.0	19.0	23.66	24.36	23.78	23.90	24.06	0.0	25.0
				1	49	16.48	17.25	17.16	16.88	16.58	0.0	17.5	18.58	18.46	18.41	18.32	18.42	0.0	19.0	23.34	24.36	24.05	23.66	24.03	0.0	25.0
				25	0	16.48	16.87	17.16	16.71	16.60	0.0	17.5	18.47	18.41	18.19	18.14	18.19	0.0	19.0	22.48	23.50	22.45	22.76	22.98	1.0	24.0
				25	13	16.48	17.00	17.16	16.83	16.87	0.0	17.5	18.60	18.45	18.40	18.21	18.23	0.0	19.0	23.26	24.34	22.98	23.12	23.97	0.0	25.0
				25	26	16.51	17.01	17.31	17.00	16.69	0.0	17.5	18.50	18.45	18.21	18.11	18.20	0.0	19.0	22.55	23.54	22.87	22.29	22.98	1.0	24.0
				50	0	16.38	17.03	17.10	16.96	16.80	0.0	17.5	18.42	18.36	18.28	18.19	18.18	0.0	19.0	22.44	23.51	22.40	22.85	23.02	1.0	24.0
				16QAM	1	1	16.51	16.93	17.12	16.79	16.91	0.0	17.5	18.55	18.33	18.35	18.23	18.20	0.0	19.0	23.48	23.38	23.05	22.80	23.08	1.0
		16QAM	1	25	16.46	16.95	17.15	16.89	16.58	0.0	17.5	18.48	18.44	18.31	18.16	18.32	0.0	19.0	23.31	23.50	22.63	22.61	23.13	1.0	24.0	
		16QAM	1	49	16.36	17.07	17.09	16.82	16.71	0.0	17.5	18.53	18.41	18.53	18.20	18.39	0.0	19.0	22.94	23.58	22.30	22.77	22.82	1.0	24.0	
		64QAM	1	1	16.35	17.02	17.12	16.57	16.61	0.0	17.5	18.45	18.39	18.42	18.34	18.35	0.0	19.0	21.99	21.85	21.58	21.50	21.48	2.5	22.5	
		256QAM	1	1	16.63	17.14	17.28	16.45	16.58	0.0	17.5	18.38	18.35	18.36	18.30	18.36	0.0	19.0	20.10	20.04	19.79	19.63	19.58	4.5	20.5	
	CP-OFDM	QPSK	1	1	16.43	17.23	17.19	16.94	16.41	0.0	17.5	18.55	18.40	18.39	18.40	18.24	0.0	19.0	22.99	23.08	22.54	22.39	22.51	1.5	23.5	

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant B) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
					500700	509652	518598	527550	536496			500700	509652	518598	527550	536496			500700	509652	518598	527550	536496			
					2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			
					18	18	18	18	18			18	18	18	18	18			18	18	18	18	18			
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.44	16.53	17.19	16.80	16.83	0.0	17.5	18.52	18.39	18.21	18.13	17.97	0.0	19.0	24.29	24.21	24.11	24.08	24.09	0.0	25.0	
			1	18	16.47	16.88	17.07	16.83	16.60	0.0	17.5	18.54	18.35	18.25	17.78	18.15	0.0	19.0	23.85	24.38	23.81	23.86	23.67	0.0	25.0	
			1	36	16.49	16.67	17.20	17.00	16.78	0.0	17.5	18.50	18.43	18.27	18.09	18.30	0.0	19.0	23.73	24.49	23.49	23.72	24.14	0.0	25.0	
			18	0	16.43	16.59	17.17	16.72	16.57	0.0	17.5	18.51	18.31	18.18	17.89	18.02	0.0	19.0	22.68	23.97	22.92	23.46	23.37	0.5	24.5	
			18	10	16.57	16.66	17.27	16.81	16.55	0.0	17.5	18.55	18.20	18.26	18.03	18.27	0.0	19.0	23.48	24.50	23.27	24.03	24.12	0.0	25.0	
			18	20	16.61	16.76	17.33	17.07	16.66	0.0	17.5	18.34	18.35	18.27	18.15	18.26	0.0	19.0	22.66	24.03	22.85	23.04	23.72	0.5	24.5	
			36	0	16.44	16.55	17.16	16.84	16.55	0.0	17.5	18.36	18.16	18.11	18.00	18.18	0.0	19.0	22.67	23.89	22.77	23.33	23.46	0.5	24.5	
		QPSK	1	1	16.51	16.73	17.09	17.03	16.63	0.0	17.5	18.61	18.48	18.45	18.11	18.22	0.0	19.0	24.06	24.44	24.02	23.89	24.15	0.0	25.0	
			1	18	16.33	16.95	17.27	16.90	16.79	0.0	17.5	18.50	18.45	18.44	18.15	18.18	0.0	19.0	23.64	24.39	23.81	23.80	24.21	0.0	25.0	
			1	36	16.40	17.24	17.08	16.93	16.85	0.0	17.5	18.60	18.48	18.51	18.34	18.36	0.0	19.0	23.37	24.48	24.11	23.67	24.05	0.0	25.0	
			18	0	16.48	16.93	17.13	16.80	16.78	0.0	17.5	18.48	18.42	18.24	18.08	18.17	0.0	19.0	22.56	23.50	22.44	22.67	23.08	1.0	24.0	
			18	10	16.31	16.92	17.19	16.86	16.87	0.0	17.5	18.56	18.38	18.44	18.16	18.27	0.0	19.0	23.28	24.30	23.04	23.15	23.93	0.0	25.0	
			18	20	16.31	16.93	17.07	16.91	16.77	0.0	17.5	18.46	18.41	18.34	18.11	18.16	0.0	19.0	22.60	23.63	22.83	22.24	22.98	1.0	24.0	
			36	0	16.56	16.88	17.11	16.85	16.77	0.0	17.5	18.51	18.29	18.20	18.09	18.18	0.0	19.0	22.43	23.54	22.42	22.89	23.07	1.0	24.0	
		16QAM	1	1	16.24	17.07	17.08	16.81	16.73	0.0	17.5	18.59	18.33	18.36	18.35	18.21	0.0	19.0	23.51	23.38	23.07	22.75	23.14	1.0	24.0	
			1	18	16.27	16.86	17.00	16.93	16.74	0.0	17.5	18.53	18.33	18.33	18.19	18.29	0.0	19.0	23.21	23.36	22.63	22.51	23.04	1.0	24.0	
			1	36	16.57	17.15	17.09	17.05	16.71	0.0	17.5	18.65	18.41	18.48	18.24	18.40	0.0	19.0	22.91	23.50	22.23	22.78	22.77	1.0	24.0	
		64QAM	1	1	16.55	16.95	17.11	16.76	16.40	0.0	17.5	18.39	18.34	18.37	18.37	18.19	0.0	19.0	21.95	21.89	21.55	21.55	21.58	2.5	22.5	
			1	1	16.63	16.88	17.27	16.56	16.69	0.0	17.5	18.39	18.37	18.39	18.31	18.34	0.0	19.0	20.02	20.01	19.80	19.56	19.61	4.5	20.5	
		256QAM	1	1	16.63	16.88	17.27	16.56	16.69	0.0	17.5	18.39	18.37	18.39	18.31	18.34	0.0	19.0	20.02	20.01	19.80	19.56	19.61	4.5	20.5	
			1	1	16.48	16.96	17.26	16.86	16.36	0.0	17.5	18.53	18.41	18.33	18.30	18.29	0.0	19.0	22.90	23.04	22.47	22.26	22.53	1.5	23.5	
		CP-OFDM	QPSK	1	1	16.48	16.96	17.26	16.86	16.36	0.0	17.5	18.53	18.41	18.33	18.30	18.29	0.0	19.0	22.90	23.04	22.47	22.26	22.53	1.5	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit	
					500202	509400	518598	527802	537000			500202	509400	518598	527802	537000			500202	509400	518598	527802	537000			
					2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz			2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz			2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz			
					18	18	18	18	18			18	18	18	18	18			18	18	18	18	18			
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	16.34	16.64	17.14	16.92	16.69	0.0	17.5	18.60	18.34	18.15	18.15	17.95	0.0	19.0	24.23	24.29	24.17	24.05	24.17	0.0	25.0	
			1	12	16.32	16.81	17.12	16.91	16.57	0.0	17.5	18.53	18.28	18.17	17.82	18.09	0.0	19.0	23.93	24.36	23.84	23.86	23.75	0.0	25.0	
			1	22	16.51	16.82	17.19	17.03	16.65	0.0	17.5	18.58	18.45	18.26	18.09	18.25	0.0	19.0	23.65	24.51	23.45	23.76	24.17	0.0	25.0	
			12	0	16.44	16.66	17.17	16.82	16.62	0.0	17.5	18.48	18.32	18.19	17.94	18.06	0.0	19.0	22.66	23.98	22.97	23.47	23.43	0.5	24.5	
			12	6	16.55	16.74	17.15	16.85	16.66	0.0	17.5	18.52	18.28	18.29	18.11	18.22	0.0	19.0	23.40	24.52	23.32	23.95	24.09	0.0	25.0	
			12	12	16.50	16.74	17.21	16.93	16.58	0.0	17.5	18.42	18.42	18.21	18.14	18.18	0.0	19.0	22.72	24.02	22.86	23.10	23.65	0.5	24.5	
			24	0	16.52	16.57	17.22	16.84	16.61	0.0	17.5	18.44	18.21	18.19	18.05	18.14	0.0	19.0	22.63	23.93	22.81	23.29	23.44	0.5	24.5	
		QPSK	1	1	16.46	16.87	17.21	16.88	16.77	0.0	17.5	18.54	18.43	18.45	18.16	18.29	0.0	19.0	24.14	24.38	24.09	23.81	24.07	0.0	25.0	
			1	12	16.42	17.02	17.20	17.00	16.68	0.0	17.5	18.49	18.38	18.41	18.16	18.17	0.0	19.0	23.64	24.32	23.83	23.88	24.13	0.0	25.0	
			1	22	16.47	17.10	17.19	17.03	16.73	0.0	17.5	18.56	18.52	18.47	18.28	18.39	0.0	19.0	23.42	24.41	24.06	23.74	24.07	0.0	25.0	
			12	0	16.46	16.92	17.10	16.85	16.71	0.0	17.5	18.43	18.38	18.25	18.13	18.19	0.0	19.0	22.48	23.49	22.52	22.74	23.06	1.0	24.0	
			12	6	16.43	17.00	17.15	16.96	16.78	0.0	17.5	18.56	18.42	18.38	18.24	18.26	0.0	19.0	23.31	24.32	23.03	23.17	23.96	0.0	25.0	
			12	12	16.46	16.95	17.20	16.88	16.63	0.0	17.5	18.51	18.41	18.29	18.18	18.23	0.0	19.0	22.58	23.56	22.83	22.29	22.96	1.0	24.0	
			24	0	16.49	16.92	17.10	16.82	16.69	0.0	17.5	18.48	18.37	18.27	18.16	18.24	0.0	19.0	22.47	23.52	22.37	22.86	23.01	1.0	24.0	
		16QAM	1	1	16.37	17.02	17.12	16.89	16.80	0.0	17.5	18.56	18.41	18.35	18.28	18.24	0.0	19.0	23.45	23.42	23.02	22.76	23.14	1.0	24.0	
			1	12	16.42	17.01	17.11	16.82	16.65	0.0	17.5	18.52	18.37	18.33	18.19	18.27	0.0	19.0	23.29	23.43	22.61	22.53	23.08	1.0	24.0	
			1	22	16.46	17.09	17.15	16.93	16.68	0.0	17.5	18.59	18.35	18.45	18.26	18.33	0.0	19.0	22.93	23.52	22.22	22.71	22.79	1.0	24.0	
		64QAM	1	1	16.42	16.96	17.21	16.66	16.53	0.0	17.5	18.47	18.38	18.38	18.35	18.27	0.0	19.0	22.03	21.89	21.52	21.57	21.51	2.5	22.5	
			1	1	16.49	17.03	17.31	16.56	16.56	0.0	17.5	18.46	18.38	18.40	18.36	18.29	0.0	19.0	20.02	20.01	19.78	19.58	19.56	4.5	20.5	
		256QAM	1	1	16.49	17.03	17.31	16.56	16.56	0.0	17.5	18.46	18.38	18.40	18.36	18.29	0.0	19.0	20.02	20.01	19.78	19.58	19.56	4.5	20.5	
			1	1	16.47	17.08	17.20	16.91	16.31	0.0	17.5	18.60	18.46	18.36	18.38	18.25	0.0	19.0	22.95	23.02	22.51	22.31	22.51	1.5	23.5	
		CP-OFDM	QPSK	1	1	16.47	17.08	17.20	16.91	16.31	0.0	17.5	18.60	18.46	18.36	18.38	18.25	0.0	19.0	22.95	23.02	22.51	22.31	22.51	1.5	23.5

Notes:
NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant.E) (SRS1) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)						
		DSI = 0, 1					DSI = 2, 3						
		Measured Pwr (dBm)					Measured Pwr (dBm)						
				518598					518598				
				2592.99 MHz					2592.99 MHz				
100 MHz	SRS CW			19.43					22.09				23.0
				508200					508200				
				2541.00 MHz					2541.00 MHz				
90 MHz	SRS CW	19.27							22.63				23.0
				507204					507204				
				2536.02 MHz					2536.02 MHz				
80 MHz	SRS CW	19.31							22.57				23.0
				506202					506202				
				2531.01 MHz					2531.01 MHz				
70 MHz	SRS CW	19.39							22.50				23.0
				505200					505200				
				2526.00 MHz					2526.00 MHz				
60 MHz	SRS CW	19.40							22.72				23.0
				504204					504204				
				2521.02 MHz					2521.02 MHz				
50 MHz	SRS CW	19.44							22.51				23.0
				503202					503202				
				2516.01 MHz					2516.01 MHz				
40 MHz	SRS CW	19.48	19.28						22.52	22.51			23.0
				502704					502704				
				2513.52 MHz					2513.52 MHz				
35 MHz	SRS CW	19.27	19.19										23.0
				502200					502200				
				2511.00 MHz					2511.00 MHz				
30 MHz	SRS CW	19.36	19.17						22.63	22.34			23.0
				501702					501702				
				2508.51 MHz					2508.51 MHz				
25 MHz	SRS CW	19.36	19.31						22.64	22.29			23.0
				501204					501204				
				2506.02 MHz					2506.02 MHz				
20 MHz	SRS CW	19.43	19.11						22.69	22.36			23.0
				500700					500700				
				2503.50 MHz					2503.50 MHz				
15 MHz	SRS CW	19.30	19.33						22.54	22.39			23.0
				500202					500202				
				2501.01 MHz					2501.01 MHz				
10 MHz	SRS CW	19.38	19.23						22.62	22.43			23.0

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant.B) (SRS1) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit	Maximum Allowed Average Power (dBm)					Tune-up Limit	Maximum Allowed Average Power (dBm)					Tune-up Limit																											
		DSI = 0						DSI = 1						DSI = 2, 3																																
		Measured Pwr (dBm)						Measured Pwr (dBm)						Measured Pwr (dBm)																																
100 MHz	SRS CW	518598					518598					518598					2592.99 MHz					17.01					17.5	18.12					19.0	24.27					25.0							
90 MHz	SRS CW	508200				528996	508200				528996	508200				528996	2541.00 MHz				2644.98 MHz	16.71				16.51	17.5	18.11				18.05	19.0	24.16				23.41	25.0							
80 MHz	SRS CW	507204				529998	507204				529998	507204				529998	2536.02 MHz				2649.99 MHz	16.75				16.42	17.5	18.22				18.14	19.0	24.28				24.31	25.0							
70 MHz	SRS CW	506202				531000	506202				531000	506202				531000	2531.01 MHz				2655.00 MHz	16.72				16.38	17.5	18.17				18.12	19.0	24.11				24.28	25.0							
60 MHz	SRS CW	505200				531996	505200				531996	505200				531996	2526.00 MHz				2659.98 MHz	16.78				17.05	17.5	18.27				18.19	19.0	24.43				24.27	25.0							
50 MHz	SRS CW	504204				532998	504204				532998	504204				532998	2521.02 MHz				2664.99 MHz	16.97				17.23	17.5	18.59				18.37	19.0	24.03				24.16	25.0							
40 MHz	SRS CW	503202	513468			523734	534000	503202	513468			523734	534000	503202	513468			523734	534000	2516.01 MHz	2567.34 MHz			2618.67 MHz	2670.00 MHz	16.82	16.96			16.81	16.32	17.5	18.38	18.01			18.12	18.22	19.0	24.51	24.13			23.37	24.28	25.0
30 MHz	SRS CW	502200	510402	518598		526800	534996	502200	510402	518598		526800	534996	502200	510402	518598		526800	534996	2511.00 MHz	2552.01 MHz	2592.99 MHz		2634.00 MHz	2674.98 MHz	16.78	16.85	17.19		16.62	16.22	17.5	18.48	18.28	18.13		18.34	18.26	19.0	24.38	24.26	24.18		23.27	24.02	25.0
25 MHz	SRS CW	501702	510150	518598		527052	535500	501702	510150	518598		527052	535500	501702	510150	518598		527052	535500	2508.51 MHz	2550.75 MHz	2592.99 MHz		2635.26 MHz	2677.50 MHz	16.83	16.78	17.21		16.53	16.23	17.5	18.61	18.13	18.14		18.04	18.26	19.0	24.43	24.14	24.11		23.38	24.24	25.0
20 MHz	SRS CW	501204	509904	518598		527298	535998	501204	509904	518598		527298	535998	501204	509904	518598		527298	535998	2506.02 MHz	2549.52 MHz	2592.99 MHz		2636.49 MHz	2679.99 MHz	16.76	16.81	17.14		16.60	16.14	17.5	18.37	18.17	18.06		18.23	18.16	19.0	24.43	24.15	23.62		23.31	24.21	25.0
15 MHz	SRS CW	500700	509652	518598		527550	536496	500700	509652	518598		527550	536496	500700	509652	518598		527550	536496	2503.50 MHz	2548.26 MHz	2592.99 MHz		2637.75 MHz	2682.48 MHz	16.71	16.79	17.18		16.69	16.14	17.5	18.44	18.13	18.14		18.03	18.16	19.0	24.35	24.16	24.06		23.51	24.16	25.0
10 MHz	SRS CW	500202	509400	518598		527802	537000	500202	509400	518598		527802	537000	500202	509400	518598		527802	537000	2501.01 MHz	2547.00 MHz	2592.99 MHz		2639.01 MHz	2685.00 MHz	16.67	16.77	17.17		16.55	16.20	17.5	18.53	18.31	18.11		18.42	18.36	19.0	24.53	24.22	24.23		24.24	24.14	25.0

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant.G) (SRS2/SRS3) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit
		DSI = 0, 1, 2, 3					
		Measured Pwr (dBm)					
100 MHz	SRS CW	518598	2592.99 MHz	12.39			13.0
90 MHz	SRS CW	508200	2541.00 MHz	12.97	528996	2644.98 MHz	13.0
80 MHz	SRS CW	507204	2536.02 MHz	12.99	529998	2649.99 MHz	13.0
70 MHz	SRS CW	506202	2531.01 MHz	12.94	531000	2655.00 MHz	13.0
60 MHz	SRS CW	505200	2526.00 MHz	12.97	518598	2592.99 MHz	13.0
60 MHz	SRS CW	505200	2526.00 MHz	12.97	518598	2592.99 MHz	13.0
60 MHz	SRS CW	505200	2526.00 MHz	12.97	518598	2592.99 MHz	13.0
50 MHz	SRS CW	504204	2521.02 MHz	12.98	518598	2592.99 MHz	13.0
50 MHz	SRS CW	504204	2521.02 MHz	12.98	518598	2592.99 MHz	13.0
45 MHz	SRS CW	503700	2518.50 MHz	12.91	513630	2568.15 MHz	13.0
45 MHz	SRS CW	503700	2518.50 MHz	12.91	513630	2568.15 MHz	13.0
40 MHz	SRS CW	503202	2516.01 MHz	12.95	513468	2567.34 MHz	13.0
40 MHz	SRS CW	503202	2516.01 MHz	12.95	513468	2567.34 MHz	13.0
35 MHz	SRS CW	502704	2513.52 MHz	12.81	510654	2553.27 MHz	13.0
35 MHz	SRS CW	502704	2513.52 MHz	12.81	510654	2553.27 MHz	13.0
30 MHz	SRS CW	502200	2511.00 MHz	12.80	510402	2552.01 MHz	13.0
30 MHz	SRS CW	502200	2511.00 MHz	12.80	510402	2552.01 MHz	13.0
25 MHz	SRS CW	501702	2508.51 MHz	12.48	510150	2550.75 MHz	13.0
25 MHz	SRS CW	501702	2508.51 MHz	12.48	510150	2550.75 MHz	13.0
20 MHz	SRS CW	501204	2506.02 MHz	12.13	509904	2549.52 MHz	13.0
20 MHz	SRS CW	501204	2506.02 MHz	12.13	509904	2549.52 MHz	13.0
15 MHz	SRS CW	500700	2503.50 MHz	12.03	509652	2548.26 MHz	13.0
15 MHz	SRS CW	500700	2503.50 MHz	12.03	509652	2548.26 MHz	13.0
10 MHz	SRS CW	500202	2501.01 MHz	11.72	509400	2547.00 MHz	13.0
10 MHz	SRS CW	500202	2501.01 MHz	11.72	509400	2547.00 MHz	13.0

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant.C) (SRS2/SRS3) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit
		DSI = 0, 1, 2, 3					
		Measured Pwr (dBm)					
				518598			
				2592.99 MHz			
100 MHz	SRS CW			12.54			13.0
				Measured Pwr (dBm)			
		508200				528996	Tune-up Limit
		2541.00 MHz				2644.98 MHz	
90 MHz	SRS CW	12.36				10.76	13.0
				Measured Pwr (dBm)			
		507204				529998	Tune-up Limit
		2536.02 MHz				2649.99 MHz	
80 MHz	SRS CW	12.30				10.64	13.0
				Measured Pwr (dBm)			
		506202				531000	Tune-up Limit
		2531.01 MHz				2655.00 MHz	
70 MHz	SRS CW	12.29				10.64	13.0
				Measured Pwr (dBm)			
		505200		518598		531996	Tune-up Limit
		2526.00 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	SRS CW	12.40		12.57		10.74	13.0
				Measured Pwr (dBm)			
		504204		518598		532998	Tune-up Limit
		2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	SRS CW	12.26		12.52		10.71	13.0
				Measured Pwr (dBm)			
		503202	513468		523734	534000	Tune-up Limit
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz	
40 MHz	SRS CW	12.40	12.48		11.60	10.64	13.0
				Measured Pwr (dBm)			
		502200	510402	518598	526800	534996	Tune-up Limit
		2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz	
30 MHz	SRS CW	12.30	12.42	12.56	11.63	10.72	13.0
				Measured Pwr (dBm)			
		501702	510150	518598	527052	535500	Tune-up Limit
		2508.51 MHz	2550.75 MHz	2592.99 MHz	2635.26 MHz	2677.50 MHz	
25 MHz	SRS CW	12.40	12.44	12.51	11.58	10.71	13.0
				Measured Pwr (dBm)			
		501204	509904	518598	527298	535998	Tune-up Limit
		2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	SRS CW	12.34	12.48	12.50	11.60	10.79	13.0
				Measured Pwr (dBm)			
		500700	509652	518598	527550	536496	Tune-up Limit
		2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz	
15 MHz	SRS CW	12.32	12.44	12.51	11.58	10.71	13.0
				Measured Pwr (dBm)			
		500202	509400	518598	527802	537000	Tune-up Limit
		2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz	
10 MHz	SRS CW	12.41	12.53	12.61	11.67	10.68	13.0

Notes:

NR Band n41 were measured output power through FTM mode provided by manufacturer.

NR Band n77-DoD(3450-3550MHz) (Ant E) (Voice/data/SRS0) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0, 1					DSI = 2, 3				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						633334					633334			
					3500.01 MHz									
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.46		0.0	18.5		18.96		0.0	19.0
			1	136		17.99		0.0	18.5		18.51		0.0	19.0
			1	271		17.81		0.0	18.5		18.34		0.0	19.0
			135	0		18.31		0.0	18.5		18.80		0.0	19.0
			135	69		18.03		0.0	18.5		18.53		0.0	19.0
			135	138		17.89		0.0	18.5		18.34		0.0	19.0
		270	0		18.09		0.0	18.5		18.56		0.0	19.0	
		QPSK	1	1		18.47		0.0	18.5		18.98		0.0	19.0
			1	136		18.02		0.0	18.5		18.51		0.0	19.0
			1	271		17.86		0.0	18.5		18.34		0.0	19.0
			135	0		18.31		0.0	18.5		18.78		0.0	19.0
			135	69		18.05		0.0	18.5		18.54		0.0	19.0
			135	138		17.93		0.0	18.5		18.40		0.0	19.0
		270	0		18.07		0.0	18.5		18.56		0.0	19.0	
		16QAM	1	1		18.47		0.0	18.5		18.96		0.0	19.0
			1	136		18.03		0.0	18.5		18.49		0.0	19.0
			1	271		17.83		0.0	18.5		18.41		0.0	19.0
		64QAM	1	1		18.47		0.0	18.5		18.98		0.0	19.0
256QAM	1	1		18.45		0.0	18.5		18.97		0.0	19.0		
CP-OFDM	QPSK	1	1		18.48		0.0	18.5		18.98		0.0	19.0	
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.00		0.0	18.5		18.62		0.0	19.0
			1	122		17.79		0.0	18.5		18.43		0.0	19.0
			1	243		17.89		0.0	18.5		18.50		0.0	19.0
			120	0		17.99		0.0	18.5		18.37		0.0	19.0
			120	62		17.79		0.0	18.5		18.47		0.0	19.0
			120	125		17.91		0.0	18.5		18.36		0.0	19.0
		243	0		17.79		0.0	18.5		18.24		0.0	19.0	
		QPSK	1	1		18.06		0.0	18.5		18.55		0.0	19.0
			1	122		17.96		0.0	18.5		18.41		0.0	19.0
			1	243		18.03		0.0	18.5		18.47		0.0	19.0
			120	0		17.81		0.0	18.5		18.34		0.0	19.0
			120	62		18.03		0.0	18.5		18.49		0.0	19.0
			120	125		17.90		0.0	18.5		18.38		0.0	19.0
		243	0		17.94		0.0	18.5		18.39		0.0	19.0	
		16QAM	1	1		18.00		0.0	18.5		18.44		0.0	19.0
			1	122		17.96		0.0	18.5		18.38		0.0	19.0
			1	243		17.80		0.0	18.5		18.43		0.0	19.0
		64QAM	1	1		17.99		0.0	18.5		18.34		0.0	19.0
256QAM	1	1		18.06		0.0	18.5		18.45		0.0	19.0		
CP-OFDM	QPSK	1	1		18.02		0.0	18.5		18.47		0.0	19.0	

Notes:
NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77- DoD(3450-3550MHz) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						633334					633334			
						3500.01 MHz					3500.01 MHz			
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1		17.98		0.0	18.5		18.59		0.0	19.0
			1	108		17.80		0.0	18.5		18.37		0.0	19.0
			1	215		17.91		0.0	18.5		18.40		0.0	19.0
			108	0		17.96		0.0	18.5		18.37		0.0	19.0
			108	54		17.94		0.0	18.5		18.51		0.0	19.0
			108	109		17.89		0.0	18.5		18.38		0.0	19.0
		216	0		17.88		0.0	18.5		18.23		0.0	19.0	
		QPSK	1	1		18.01		0.0	18.5		18.57		0.0	19.0
			1	108		17.95		0.0	18.5		18.47		0.0	19.0
			1	215		18.07		0.0	18.5		18.53		0.0	19.0
			108	0		17.92		0.0	18.5		18.37		0.0	19.0
			108	54		18.00		0.0	18.5		18.56		0.0	19.0
			108	109		17.88		0.0	18.5		18.43		0.0	19.0
		216	0		17.95		0.0	18.5		18.38		0.0	19.0	
		16QAM	1	1		18.03		0.0	18.5		18.47		0.0	19.0
			1	108		17.94		0.0	18.5		18.52		0.0	19.0
			1	215		17.95		0.0	18.5		18.44		0.0	19.0
		64QAM	1	1		18.07		0.0	18.5		18.43		0.0	19.0
256QAM	1	1		17.91		0.0	18.5		18.34		0.0	19.0		
CP-OFDM	QPSK	1	1		18.18		0.0	18.5		18.40		0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						633334					633334			
						3500.01 MHz					3500.01 MHz			
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1		17.83		0.0	18.5		18.51		0.0	19.0
			1	94		17.82		0.0	18.5		18.51		0.0	19.0
			1	187		17.80		0.0	18.5		18.48		0.0	19.0
			90	0		17.88		0.0	18.5		18.46		0.0	19.0
			90	49		17.86		0.0	18.5		18.38		0.0	19.0
			90	99		17.92		0.0	18.5		18.41		0.0	19.0
		180	0		17.89		0.0	18.5		18.26		0.0	19.0	
		QPSK	1	1		17.97		0.0	18.5		18.49		0.0	19.0
			1	94		17.99		0.0	18.5		18.42		0.0	19.0
			1	187		18.03		0.0	18.5		18.52		0.0	19.0
			90	0		17.77		0.0	18.5		18.43		0.0	19.0
			90	49		18.00		0.0	18.5		18.42		0.0	19.0
			90	99		17.89		0.0	18.5		18.41		0.0	19.0
		180	0		17.99		0.0	18.5		18.43		0.0	19.0	
		16QAM	1	1		18.04		0.0	18.5		18.48		0.0	19.0
			1	94		17.94		0.0	18.5		18.51		0.0	19.0
			1	187		17.80		0.0	18.5		18.43		0.0	19.0
		64QAM	1	1		18.03		0.0	18.5		18.45		0.0	19.0
256QAM	1	1		17.91		0.0	18.5		18.41		0.0	19.0		
CP-OFDM	QPSK	1	1		18.07		0.0	18.5		18.45		0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77- DoD(3450-3550MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						633332					633332			
						3499.98 MHz					3499.98 MHz			
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1		17.97		0.0	18.5		18.58		0.0	19.0
			1	80		17.79		0.0	18.5		18.45		0.0	19.0
			1	160		17.79		0.0	18.5		18.54		0.0	19.0
			81	0		17.85		0.0	18.5		18.31		0.0	19.0
			81	40		17.80		0.0	18.5		18.42		0.0	19.0
			81	81		17.93		0.0	18.5		18.36		0.0	19.0
		162	0		17.86		0.0	18.5		18.37		0.0	19.0	
		QPSK	1	1		17.99		0.0	18.5		18.60		0.0	19.0
			1	80		17.99		0.0	18.5		18.41		0.0	19.0
			1	160		17.90		0.0	18.5		18.54		0.0	19.0
			81	0		17.91		0.0	18.5		18.41		0.0	19.0
			81	40		17.96		0.0	18.5		18.54		0.0	19.0
			81	81		17.90		0.0	18.5		18.30		0.0	19.0
		162	0		17.97		0.0	18.5		18.34		0.0	19.0	
		16QAM	1	1		17.93		0.0	18.5		18.48		0.0	19.0
			1	80		17.92		0.0	18.5		18.37		0.0	19.0
1	160			17.83		0.0	18.5		18.38		0.0	19.0		
64QAM	1	1		17.97		0.0	18.5		18.36		0.0	19.0		
256QAM	1	1		18.06		0.0	18.5		18.41		0.0	19.0		
CP-OFDM	QPSK	1	1		18.04		0.0	18.5		18.41		0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631668		635000			631668		635000		
					3475.02 MHz		3525.00 MHz			3475.02 MHz		3525.00 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.32		17.72	0.0	18.5	18.77		18.10	0.0	19.0
			1	66	18.24		17.62	0.0	18.5	18.78		18.21	0.0	19.0
			1	131	18.36		17.68	0.0	18.5	18.86		18.19	0.0	19.0
			64	0	18.27		17.69	0.0	18.5	18.70		18.05	0.0	19.0
			64	34	18.26		17.76	0.0	18.5	18.83		18.12	0.0	19.0
			64	69	18.23		17.55	0.0	18.5	18.75		18.12	0.0	19.0
		128	0	18.12		17.60	0.0	18.5	18.76		18.03	0.0	19.0	
		QPSK	1	1	18.45		17.71	0.0	18.5	18.88		18.10	0.0	19.0
			1	66	18.31		17.72	0.0	18.5	18.89		18.05	0.0	19.0
			1	131	18.48		17.66	0.0	18.5	18.93		18.25	0.0	19.0
			64	0	18.34		17.66	0.0	18.5	18.89		18.23	0.0	19.0
			64	34	18.45		17.64	0.0	18.5	18.84		18.24	0.0	19.0
			64	69	18.27		17.62	0.0	18.5	18.86		18.10	0.0	19.0
		128	0	18.28		17.64	0.0	18.5	18.74		18.01	0.0	19.0	
		16QAM	1	1	18.28		17.64	0.0	18.5	18.91		18.24	0.0	19.0
			1	66	18.24		17.65	0.0	18.5	18.83		18.15	0.0	19.0
1	131		18.48		17.66	0.0	18.5	18.75		18.12	0.0	19.0		
64QAM	1	1	18.33		17.66	0.0	18.5	18.88		18.17	0.0	19.0		
256QAM	1	1	18.36		17.60	0.0	18.5	18.76		18.24	0.0	19.0		
CP-OFDM	QPSK	1	1	18.49		17.66	0.0	18.5	18.87		18.22	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77- DoD(3450-3550MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631334		635332			631334		635332		
					3470.01 MHz		3529.98 MHz			3470.01 MHz		3529.98 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.49		17.84	0.0	18.5	18.86		18.23	0.0	19.0
			1	52	18.26		17.72	0.0	18.5	18.82		18.15	0.0	19.0
			1	104	18.37		17.69	0.0	18.5	18.98		18.15	0.0	19.0
			50	0	18.31		17.57	0.0	18.5	18.77		18.22	0.0	19.0
			50	28	18.26		17.74	0.0	18.5	18.90		18.02	0.0	19.0
			50	56	18.22		17.63	0.0	18.5	18.85		18.03	0.0	19.0
		100	0	18.10		17.50	0.0	18.5	18.71		18.05	0.0	19.0	
		QPSK	1	1	18.41		17.75	0.0	18.5	18.85		18.13	0.0	19.0
			1	52	18.32		17.63	0.0	18.5	18.94		18.13	0.0	19.0
			1	104	18.42		17.62	0.0	18.5	18.88		18.37	0.0	19.0
			50	0	18.32		17.66	0.0	18.5	18.83		18.20	0.0	19.0
			50	28	18.33		17.73	0.0	18.5	18.78		18.12	0.0	19.0
			50	56	18.21		17.65	0.0	18.5	18.86		18.09	0.0	19.0
		100	0	18.28		17.59	0.0	18.5	18.80		18.10	0.0	19.0	
		16QAM	1	1	18.28		17.66	0.0	18.5	18.91		18.16	0.0	19.0
			1	52	18.33		17.63	0.0	18.5	18.87		18.18	0.0	19.0
1	104		18.39		17.67	0.0	18.5	18.79		18.22	0.0	19.0		
64QAM	1	1	18.37		17.73	0.0	18.5	18.84		18.26	0.0	19.0		
256QAM	1	1	18.29		17.68	0.0	18.5	18.74		18.29	0.0	19.0		
CP-OFDM	QPSK	1	1	18.38		17.81	0.0	18.5	18.91		18.32	0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631000	633334	635666			631000	633334	635666		
					3465.00 MHz	3500.01 MHz	3534.99 MHz			3465.00 MHz	3500.01 MHz	3534.99 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.33	17.90	17.78	0.0	18.5	18.79	18.57	18.09	0.0	19.0
			1	39	18.32	17.81	17.68	0.0	18.5	18.74	18.46	18.04	0.0	19.0
			1	76	18.36	17.86	17.74	0.0	18.5	18.92	18.55	18.08	0.0	19.0
			36	0	18.22	17.90	17.66	0.0	18.5	18.74	18.43	18.08	0.0	19.0
			36	21	18.23	17.82	17.72	0.0	18.5	18.82	18.35	18.04	0.0	19.0
			36	42	18.19	17.87	17.65	0.0	18.5	18.75	18.33	17.99	0.0	19.0
		75	0	18.12	17.90	17.54	0.0	18.5	18.80	18.39	18.14	0.0	19.0	
		QPSK	1	1	18.38	18.12	17.76	0.0	18.5	18.96	18.54	18.22	0.0	19.0
			1	39	18.38	17.89	17.59	0.0	18.5	18.92	18.40	18.10	0.0	19.0
			1	76	18.46	18.07	17.78	0.0	18.5	18.87	18.50	18.22	0.0	19.0
			36	0	18.32	17.88	17.81	0.0	18.5	18.84	18.40	18.23	0.0	19.0
			36	21	18.45	17.92	17.73	0.0	18.5	18.84	18.55	18.20	0.0	19.0
			36	42	18.33	17.89	17.54	0.0	18.5	18.71	18.44	18.15	0.0	19.0
		75	0	18.34	17.98	17.54	0.0	18.5	18.87	18.29	18.09	0.0	19.0	
		16QAM	1	1	18.41	18.04	17.67	0.0	18.5	18.86	18.47	18.15	0.0	19.0
			1	39	18.40	18.04	17.55	0.0	18.5	18.75	18.37	18.09	0.0	19.0
1	76		18.45	17.95	17.70	0.0	18.5	18.76	18.35	18.13	0.0	19.0		
64QAM	1	1	18.40	17.96	17.69	0.0	18.5	18.79	18.38	18.18	0.0	19.0		
256QAM	1	1	18.45	17.94	17.61	0.0	18.5	18.77	18.29	18.28	0.0	19.0		
CP-OFDM	QPSK	1	1	18.46	18.16	17.75	0.0	18.5	18.83	18.51	18.21	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77- DoD(3450-3550MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630834	633334	635832			630834	633334	635832		
					3462.51 MHz	3500.01 MHz	3537.48 MHz			3462.51 MHz	3500.01 MHz	3537.48 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.49	17.83	17.85	0.0	18.5	18.83	18.54	18.13	0.0	19.0
			1	32	18.27	17.85	17.59	0.0	18.5	18.80	18.38	18.14	0.0	19.0
			1	63	18.32	17.84	17.75	0.0	18.5	18.84	18.41	18.10	0.0	19.0
			32	0	18.15	17.89	17.59	0.0	18.5	18.71	18.37	18.08	0.0	19.0
			32	16	18.24	17.89	17.68	0.0	18.5	18.92	18.44	18.13	0.0	19.0
			32	33	18.29	17.91	17.66	0.0	18.5	18.73	18.38	17.98	0.0	19.0
		QPSK	1	1	18.47	18.03	17.81	0.0	18.5	18.99	18.57	18.17	0.0	19.0
			1	32	18.46	17.90	17.72	0.0	18.5	18.80	18.47	18.15	0.0	19.0
			1	63	18.34	17.96	17.68	0.0	18.5	18.86	18.52	18.37	0.0	19.0
			32	0	18.34	17.87	17.72	0.0	18.5	18.87	18.42	18.19	0.0	19.0
			32	16	18.43	18.05	17.76	0.0	18.5	18.86	18.50	18.24	0.0	19.0
			32	33	18.22	17.90	17.54	0.0	18.5	18.79	18.29	18.12	0.0	19.0
		16QAM	1	1	18.34	18.01	17.65	0.0	18.5	18.96	18.41	18.14	0.0	19.0
			1	32	18.31	18.01	17.56	0.0	18.5	18.86	18.51	18.11	0.0	19.0
			1	63	18.31	17.85	17.62	0.0	18.5	18.72	18.37	18.20	0.0	19.0
		64QAM	1	1	18.42	17.93	17.74	0.0	18.5	18.82	18.34	18.11	0.0	19.0
		256QAM	1	1	18.45	17.94	17.60	0.0	18.5	18.90	18.39	18.21	0.0	19.0
		CP-OFDM	QPSK	1	1	18.37	18.16	17.73	0.0	18.5	18.91	18.44	18.27	0.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630668	633334	636000			630668	633334	636000		
					3460.02 MHz	3500.01 MHz	3540.00 MHz			3460.02 MHz	3500.01 MHz	3540.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.37	17.90	17.71	0.0	18.5	18.78	18.48	18.12	0.0	19.0
			1	25	18.33	17.85	17.66	0.0	18.5	18.72	18.44	18.06	0.0	19.0
			1	49	18.42	17.91	17.80	0.0	18.5	18.93	18.49	18.09	0.0	19.0
			25	0	18.27	17.92	17.57	0.0	18.5	18.85	18.39	18.11	0.0	19.0
			25	13	18.39	17.91	17.63	0.0	18.5	18.94	18.37	18.11	0.0	19.0
			25	26	18.22	17.78	17.55	0.0	18.5	18.85	18.37	18.04	0.0	19.0
		QPSK	50	0	18.26	17.76	17.58	0.0	18.5	18.76	18.22	18.02	0.0	19.0
			1	1	18.34	17.99	17.76	0.0	18.5	18.83	18.56	18.21	0.0	19.0
			1	25	18.37	17.93	17.61	0.0	18.5	18.78	18.47	18.16	0.0	19.0
			1	49	18.48	18.02	17.72	0.0	18.5	18.82	18.52	18.25	0.0	19.0
			25	0	18.23	17.80	17.74	0.0	18.5	18.74	18.42	18.24	0.0	19.0
			25	13	18.29	17.99	17.66	0.0	18.5	18.93	18.41	18.13	0.0	19.0
		16QAM	25	26	18.22	17.89	17.62	0.0	18.5	18.84	18.36	18.10	0.0	19.0
			50	0	18.32	17.90	17.70	0.0	18.5	18.76	18.45	18.04	0.0	19.0
			1	1	18.39	18.00	17.73	0.0	18.5	18.96	18.40	18.18	0.0	19.0
		64QAM	1	25	18.41	17.95	17.59	0.0	18.5	18.76	18.44	18.05	0.0	19.0
			1	49	18.33	17.97	17.63	0.0	18.5	18.76	18.47	18.21	0.0	19.0
		256QAM	1	1	18.44	17.94	17.74	0.0	18.5	18.92	18.36	18.24	0.0	19.0
CP-OFDM	QPSK	1	1	18.44	18.04	17.82	0.0	18.5	18.83	18.47	18.27	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77- DoD(3450-3550MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630500	633334	636166			630500	633334	636166		
					3457.50 MHz	3500.01 MHz	3542.49 MHz			3457.50 MHz	3500.01 MHz	3542.49 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.43	17.98	17.79	0.0	18.5	18.90	18.48	18.14	0.0	19.0
			1	18	18.32	17.81	17.66	0.0	18.5	18.69	18.46	18.16	0.0	19.0
			1	36	18.36	17.95	17.70	0.0	18.5	18.87	18.46	18.14	0.0	19.0
			18	0	18.16	17.87	17.59	0.0	18.5	18.86	18.32	18.17	0.0	19.0
			18	10	18.39	17.83	17.67	0.0	18.5	18.82	18.51	18.16	0.0	19.0
			18	20	18.33	17.94	17.49	0.0	18.5	18.80	18.34	18.02	0.0	19.0
		36	0	18.26	17.75	17.62	0.0	18.5	18.79	18.36	18.12	0.0	19.0	
		QPSK	1	1	18.46	18.12	17.84	0.0	18.5	18.90	18.60	18.15	0.0	19.0
			1	18	18.44	18.05	17.64	0.0	18.5	18.92	18.46	18.18	0.0	19.0
			1	36	18.33	17.92	17.68	0.0	18.5	18.92	18.46	18.23	0.0	19.0
			18	0	18.35	17.88	17.72	0.0	18.5	18.85	18.37	18.23	0.0	19.0
			18	10	18.29	17.91	17.71	0.0	18.5	18.87	18.54	18.16	0.0	19.0
			18	20	18.28	17.94	17.63	0.0	18.5	18.73	18.36	18.02	0.0	19.0
		36	0	18.28	17.87	17.57	0.0	18.5	18.75	18.37	18.11	0.0	19.0	
		16QAM	1	1	18.37	18.00	17.65	0.0	18.5	18.88	18.37	18.27	0.0	19.0
			1	18	18.34	18.08	17.68	0.0	18.5	18.88	18.43	18.20	0.0	19.0
1	36		18.42	17.88	17.69	0.0	18.5	18.82	18.51	18.12	0.0	19.0		
64QAM	1	1	18.33	18.05	17.59	0.0	18.5	18.91	18.42	18.23	0.0	19.0		
256QAM	1	1	18.44	18.01	17.66	0.0	18.5	18.75	18.38	18.15	0.0	19.0		
CP-OFDM	QPSK	1	1	18.49	18.08	17.73	0.0	18.5	18.91	18.57	18.35	0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630334	633334	636332			630334	633334	636332		
					3455.01 MHz	3500.01 MHz	3544.98 MHz			3455.01 MHz	3500.01 MHz	3544.98 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.46	17.97	17.83	0.0	18.5	18.88	18.59	18.21	0.0	19.0
			1	12	18.38	17.92	17.73	0.0	18.5	18.82	18.49	18.18	0.0	19.0
			1	22	18.43	17.92	17.79	0.0	18.5	18.97	18.53	18.20	0.0	19.0
			12	0	18.29	17.98	17.69	0.0	18.5	18.83	18.45	18.19	0.0	19.0
			12	6	18.37	17.92	17.76	0.0	18.5	18.92	18.49	18.15	0.0	19.0
			12	12	18.31	17.92	17.63	0.0	18.5	18.86	18.39	18.12	0.0	19.0
		24	0	18.23	17.89	17.63	0.0	18.5	18.82	18.36	18.11	0.0	19.0	
		QPSK	1	1	18.45	18.11	17.81	0.0	18.5	18.96	18.62	18.23	0.0	19.0
			1	12	18.44	18.02	17.72	0.0	18.5	18.92	18.49	18.16	0.0	19.0
			1	22	18.47	18.04	17.76	0.0	18.5	18.96	18.58	18.34	0.0	19.0
			12	0	18.34	17.91	17.78	0.0	18.5	18.88	18.43	18.22	0.0	19.0
			12	6	18.42	18.03	17.73	0.0	18.5	18.90	18.53	18.23	0.0	19.0
			12	12	18.32	17.94	17.65	0.0	18.5	18.83	18.43	18.15	0.0	19.0
		24	0	18.35	17.96	17.67	0.0	18.5	18.84	18.43	18.14	0.0	19.0	
		16QAM	1	1	18.41	18.03	17.76	0.0	18.5	18.96	18.48	18.26	0.0	19.0
			1	12	18.38	18.05	17.66	0.0	18.5	18.89	18.49	18.19	0.0	19.0
1	22		18.45	17.94	17.68	0.0	18.5	18.86	18.49	18.25	0.0	19.0		
64QAM	1	1	18.44	18.04	17.73	0.0	18.5	18.89	18.48	18.24	0.0	19.0		
256QAM	1	1	18.43	18.05	17.74	0.0	18.5	18.88	18.43	18.27	0.0	19.0		
CP-OFDM	QPSK	1	1	18.49	18.16	17.79	0.0	18.5	18.96	18.54	18.33	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)							Maximum Allowed Average Power (dBm)									
					DSI = 0, 1							DSI = 2, 3									
					Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit	
					650000					662000			650000					662000			
3750.00 MHz					3930.00 MHz	3750.00 MHz							3930.00 MHz								
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.08					18.35	0.0	18.5	18.31					18.76	0.0	19.0	
			1	136	18.11					18.29	0.0	18.5	18.29					18.84	0.0	19.0	
			1	271	18.17					18.29	0.0	18.5	18.57					18.83	0.0	19.0	
			135	0	18.09					18.25	0.0	18.5	18.28					18.73	0.0	19.0	
			135	69	18.09					18.37	0.0	18.5	18.33					18.78	0.0	19.0	
			135	138	18.19					18.23	0.0	18.5	18.44					18.71	0.0	19.0	
		270	0	18.12					18.35	0.0	18.5	18.36					18.86	0.0	19.0		
		QPSK	1	1	18.13					18.39	0.0	18.5	18.37					18.87	0.0	19.0	
			1	136	18.14					18.33	0.0	18.5	18.36					18.83	0.0	19.0	
			1	271	18.17					18.32	0.0	18.5	18.64					18.86	0.0	19.0	
			135	0	18.17					18.22	0.0	18.5	18.35					18.79	0.0	19.0	
			135	69	18.22					18.32	0.0	18.5	18.33					18.87	0.0	19.0	
			135	138	18.28					18.25	0.0	18.5	18.43					18.82	0.0	19.0	
		270	0	18.24					18.38	0.0	18.5	18.40					18.80	0.0	19.0		
		16QAM	1	1	18.12					18.37	0.0	18.5	18.40					18.90	0.0	19.0	
			1	136	18.11					18.33	0.0	18.5	18.37					18.88	0.0	19.0	
			1	271	18.13					18.32	0.0	18.5	18.61					18.87	0.0	19.0	
		64QAM	1	1	18.13					18.37	0.0	18.5	18.44					18.80	0.0	19.0	
1	1		18.14					18.38	0.0	18.5	18.41					18.84	0.0	19.0			
CP-OFDM	QPSK	1	1	17.81					18.39	0.0	18.5	18.47					18.89	0.0	19.0		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.33				18.16		18.33	0.0	18.5	18.05			18.53		18.79	0.0	19.0
			1	122	18.16				18.15		18.36	0.0	18.5	18.26			18.68		18.85	0.0	19.0
			1	243	18.11				18.41		18.48	0.0	18.5	18.33			18.81		18.91	0.0	19.0
			120	0	18.14				18.17		18.24	0.0	18.5	18.11			18.54		18.77	0.0	19.0
			120	62	18.09				18.20		18.36	0.0	18.5	18.19			18.72		18.83	0.0	19.0
			120	125	18.07				18.14		18.27	0.0	18.5	18.13			18.57		18.83	0.0	19.0
		243	0	18.22				18.19		18.37	0.0	18.5	18.13			18.63		18.73	0.0	19.0	
		QPSK	1	1	18.34				18.23		18.25	0.0	18.5	18.18			18.61		18.82	0.0	19.0
			1	122	18.19				18.10		18.25	0.0	18.5	18.25			18.74		18.73	0.0	19.0
			1	243	18.23				18.26		18.36	0.0	18.5	18.33			18.69		18.77	0.0	19.0
			120	0	18.23				18.14		18.21	0.0	18.5	18.06			18.66		18.70	0.0	19.0
			120	62	18.12				18.07		18.28	0.0	18.5	18.22			18.62		18.73	0.0	19.0
			120	125	18.11				18.18		18.28	0.0	18.5	18.14			18.64		18.75	0.0	19.0
		243	0	18.33				18.16		18.34	0.0	18.5	18.14			18.58		18.79	0.0	19.0	
		16QAM	1	1	18.32				18.27		18.30	0.0	18.5	18.08			18.55		18.89	0.0	19.0
			1	122	18.12				18.05		18.19	0.0	18.5	18.14			18.64		18.81	0.0	19.0
			1	243	18.24				18.35		18.31	0.0	18.5	18.20			18.79		18.83	0.0	19.0
		64QAM	1	1	18.28				18.25		18.28	0.0	18.5	18.20			18.64		18.84	0.0	19.0
256QAM	1	1	18.32				18.19		18.24	0.0	18.5	18.24			18.57		18.79	0.0	19.0		
CP-OFDM	QPSK	1	1	18.41				18.25		18.33	0.0	18.5	18.38			18.79		18.95	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit				
					649334		656000		662666				649334		656000		662666							
					3740.01 MHz		3840.00 MHz		3939.99 MHz				3740.01 MHz		3840.00 MHz		3939.99 MHz							
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.12			17.94		18.02	0.0	18.5	18.11			18.54		18.73	0.0	19.0				
			1	108	17.95			17.86		18.08	0.0	18.5	18.15			18.70		18.73	0.0	19.0				
			1	215	18.08			18.21		18.31	0.0	18.5	18.31			18.78		18.88	0.0	19.0				
			108	0	18.01			17.88		18.07	0.0	18.5	18.11			18.56		18.74	0.0	19.0				
			108	54	18.07			17.97		18.19	0.0	18.5	18.28			18.75		18.77	0.0	19.0				
			108	109	17.90			17.96		18.12	0.0	18.5	18.18			18.69		18.76	0.0	19.0				
		216	0	18.01			17.92		18.27	0.0	18.5	18.11			18.67		18.72	0.0	19.0					
		1	1	18.10			17.96		18.18	0.0	18.5	18.15			18.60		18.81	0.0	19.0					
		1	108	17.96			17.85		18.11	0.0	18.5	18.22			18.63		18.84	0.0	19.0					
		1	215	18.03			18.18		18.29	0.0	18.5	18.18			18.77		18.87	0.0	19.0					
		108	0	18.01			17.94		18.12	0.0	18.5	18.10			18.64		18.74	0.0	19.0					
		108	54	18.08			17.81		18.36	0.0	18.5	18.24			18.57		18.74	0.0	19.0					
		108	109	17.93			17.82		18.10	0.0	18.5	18.23			18.65		18.86	0.0	19.0					
		216	0	17.99			17.82		18.23	0.0	18.5	18.13			18.57		18.79	0.0	19.0					
		1	1	18.03			17.89		18.08	0.0	18.5	18.15			18.58		18.79	0.0	19.0					
		1	108	18.02			17.82		18.14	0.0	18.5	18.16			18.61		18.76	0.0	19.0					
		1	215	18.05			18.11		18.23	0.0	18.5	18.19			18.75		18.89	0.0	19.0					
		1	1	18.04			17.78		18.12	0.0	18.5	18.23			18.63		18.79	0.0	19.0					
1	1	18.06			17.83		18.01	0.0	18.5	18.10			18.57		18.77	0.0	19.0							
CP-OFDM	QPSK	1	1	18.04			17.85		18.08	0.0	18.5	18.38			18.81		18.86	0.0	19.0					
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit				
					649000		653666		658334				663000		649000		653666				658334		663000	
					3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz					3735.00 MHz	3804.99 MHz					3875.01 MHz	3945.00 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.82	17.75			18.08	18.05	0.0	18.5	18.18	18.39			18.83	18.84	0.0	19.0				
			1	94	17.85	17.69			18.03	18.24	0.0	18.5	18.13	18.41			18.82	18.82	0.0	19.0				
			1	187	17.82	17.78			18.09	18.35	0.0	18.5	18.31	18.50			18.85	18.93	0.0	19.0				
			90	0	17.92	17.77			18.02	18.14	0.0	18.5	18.03	18.27			18.69	18.78	0.0	19.0				
			90	49	17.89	17.67			17.94	18.29	0.0	18.5	18.22	18.43			18.80	18.81	0.0	19.0				
			90	99	17.79	17.77			17.99	18.21	0.0	18.5	18.10	18.31			18.70	18.73	0.0	19.0				
		180	0	17.89	17.70			18.08	18.06	0.0	18.5	18.07	18.32			18.65	18.70	0.0	19.0					
		1	1	17.78	17.77			18.09	18.12	0.0	18.5	18.18	18.52			18.74	18.76	0.0	19.0					
		1	94	17.77	17.67			18.08	18.19	0.0	18.5	18.20	18.45			18.25	18.73	0.0	19.0					
		1	187	17.75	17.84			18.22	18.22	0.0	18.5	18.18	18.56			18.78	18.87	0.0	19.0					
		90	0	17.88	17.75			18.02	18.11	0.0	18.5	18.15	18.37			18.65	18.79	0.0	19.0					
		90	49	17.91	17.81			18.14	18.22	0.0	18.5	18.25	18.40			18.80	18.76	0.0	19.0					
		90	99	17.83	17.83			18.05	18.17	0.0	18.5	18.13	18.35			18.84	18.88	0.0	19.0					
		180	0	17.87	17.72			18.03	18.16	0.0	18.5	18.11	18.45			18.85	18.77	0.0	19.0					
		1	1	17.88	17.82			18.18	18.07	0.0	18.5	18.13	18.41			18.86	18.86	0.0	19.0					
		1	94	17.89	17.69			17.94	18.13	0.0	18.5	18.24	18.38			18.78	18.86	0.0	19.0					
		1	187	17.79	17.78			18.02	18.21	0.0	18.5	18.18	18.45			18.75	18.84	0.0	19.0					
		1	1	17.88	17.75			18.04	18.11	0.0	18.5	18.16	18.40			18.82	18.88	0.0	19.0					
1	1	17.82	17.78			18.02	18.12	0.0	18.5	18.10	18.44			18.82	18.90	0.0	19.0							
CP-OFDM	QPSK	1	1	18.04	17.84			18.07	18.17	0.0	18.5	18.28	18.45			18.98	18.90	0.0	19.0					

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit		
					648668	653556			658444	663332			648668	653556			658444	663332				
					3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz				
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.74	17.98			18.37	18.46	0.0	18.5	18.16	18.34			18.86	18.83	0.0	19.0		
			1	80	17.72	17.94			18.32	18.37	0.0	18.5	18.21	18.44			18.85	18.82	0.0	19.0		
			1	160	17.64	17.99			18.44	18.32	0.0	18.5	18.30	18.59			18.90	18.88	0.0	19.0		
			81	0	17.59	17.80			18.13	18.27	0.0	18.5	18.11	18.33			18.82	18.70	0.0	19.0		
			81	40	17.64	17.96			18.23	18.29	0.0	18.5	18.20	18.37			18.82	18.74	0.0	19.0		
			81	81	17.51	17.90			18.27	18.35	0.0	18.5	18.12	18.36			18.73	18.81	0.0	19.0		
		162	0	17.55	17.76			18.24	18.38	0.0	18.5	18.15	18.25			18.72	18.73	0.0	19.0			
		1	1	17.78	17.97			18.33	18.40	0.0	18.5	18.27	18.39			18.86	18.76	0.0	19.0			
		1	80	17.64	17.97			18.26	18.31	0.0	18.5	18.22	18.40			18.81	18.85	0.0	19.0			
		1	160	17.67	18.05			18.28	18.50	0.0	18.5	18.29	18.57			18.86	18.79	0.0	19.0			
		81	0	17.63	17.94			18.19	18.39	0.0	18.5	18.18	18.24			18.70	18.70	0.0	19.0			
		81	40	17.73	18.00			18.30	18.40	0.0	18.5	18.20	18.40			18.83	18.73	0.0	19.0			
		81	81	17.72	17.98			18.12	18.37	0.0	18.5	18.16	18.26			18.72	18.84	0.0	19.0			
		162	0	17.70	17.89			18.18	18.30	0.0	18.5	18.10	18.39			18.76	18.68	0.0	19.0			
		1	1	17.64	17.83			18.19	18.38	0.0	18.5	18.17	18.31			18.75	18.78	0.0	19.0			
		1	80	17.68	17.79			18.28	18.39	0.0	18.5	18.13	18.48			18.86	18.78	0.0	19.0			
		1	160	17.60	17.97			18.29	18.41	0.0	18.5	18.25	18.51			18.76	18.87	0.0	19.0			
		64QAM	1	1	17.59	17.92			18.29	18.41	0.0	18.5	18.20	18.37			18.75	18.86	0.0	19.0		
256QAM	1	1	17.67	17.90			18.21	18.30	0.0	18.5	18.14	18.43			18.79	18.81	0.0	19.0				
CP-OFDM	QPSK	1	1	17.68	18.09			18.42	18.49	0.0	18.5	18.24	18.40			18.95	18.88	0.0	19.0			
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.66	18.00			18.07	18.37	18.37	0.0	18.5	18.13	18.33			18.63	18.96	18.83	0.0	19.0
			1	66	17.75	17.86			18.18	18.34	18.41	0.0	18.5	18.14	18.29			18.77	18.87	18.86	0.0	19.0
			1	131	17.71	18.00			18.24	18.37	18.33	0.0	18.5	18.32	18.53			18.73	18.87	18.93	0.0	19.0
			64	0	17.59	17.73			18.16	18.18	18.31	0.0	18.5	18.11	18.38			18.62	18.74	18.65	0.0	19.0
			64	34	17.71	17.90			18.27	18.33	18.27	0.0	18.5	18.20	18.49			18.72	18.93	18.81	0.0	19.0
			64	69	17.59	17.83			18.13	18.20	18.43	0.0	18.5	18.15	18.34			18.59	18.77	18.78	0.0	19.0
		128	0	17.61	17.75			18.05	18.15	18.35	0.0	18.5	18.12	18.30			18.58	18.73	18.78	0.0	19.0	
		1	1	17.69	17.97			18.12	18.26	18.41	0.0	18.5	18.18	18.45			18.58	18.84	18.88	0.0	19.0	
		1	66	17.64	17.93			18.16	18.26	18.38	0.0	18.5	18.24	18.42			18.63	18.32	18.80	0.0	19.0	
		1	131	17.77	17.99			18.31	18.36	18.49	0.0	18.5	18.25	18.56			18.75	18.80	18.86	0.0	19.0	
		64	0	17.60	17.83			18.08	18.25	18.36	0.0	18.5	18.15	18.31			18.69	18.73	18.74	0.0	19.0	
		64	34	17.66	17.94			18.20	18.21	18.26	0.0	18.5	18.29	18.46			18.67	18.71	18.72	0.0	19.0	
		64	69	17.65	17.90			18.11	18.24	18.39	0.0	18.5	18.17	18.31			18.74	18.82	18.82	0.0	19.0	
		128	0	17.55	17.95			18.17	18.21	18.30	0.0	18.5	18.11	18.40			18.57	18.86	18.69	0.0	19.0	
		1	1	17.68	17.90			18.06	18.28	18.46	0.0	18.5	18.17	18.37			18.59	18.84	18.78	0.0	19.0	
		1	66	17.69	17.87			18.09	18.26	18.32	0.0	18.5	18.12	18.42			18.65	18.75	18.82	0.0	19.0	
		1	131	17.74	17.92			18.23	18.29	18.42	0.0	18.5	18.10	18.42			18.66	18.75	18.75	0.0	19.0	
		64QAM	1	1	17.63	17.85			18.03	18.35	18.35	0.0	18.5	18.19	18.41			18.64	18.75	18.91	0.0	19.0
256QAM	1	1	17.62	17.85			18.10	18.24	18.30	0.0	18.5	18.25	18.42			18.66	18.82	18.85	0.0	19.0		
CP-OFDM	QPSK	1	1	17.70	18.02			18.18	18.28	18.48	0.0	18.5	18.35	18.43			18.79	18.94	18.93	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					648000	651200	654400	657600	660800	664000			648000	651200	654400	657600	660800	664000		
					3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.64	17.97	18.15	18.10	18.30	18.39	0.0	18.5	18.19	18.37	18.58	18.65	18.86	18.85	0.0	19.0
			1	52	17.78	17.95	18.06	18.17	18.37	18.43	0.0	18.5	18.24	18.31	18.54	18.69	18.93	18.79	0.0	19.0
			1	104	17.77	17.98	18.18	18.25	18.38	18.39	0.0	18.5	18.36	18.54	18.66	18.73	18.85	18.87	0.0	19.0
			50	0	17.49	17.82	18.05	18.15	18.25	18.34	0.0	18.5	18.13	18.29	18.36	18.57	18.69	18.79	0.0	19.0
			50	28	17.64	18.00	17.95	18.17	18.21	18.38	0.0	18.5	18.19	18.50	18.49	18.74	18.87	18.86	0.0	19.0
			50	56	17.61	17.90	18.02	18.14	18.32	18.43	0.0	18.5	18.15	18.31	18.50	18.59	18.79	18.69	0.0	19.0
		100	0	17.50	17.86	18.02	18.01	18.14	18.26	0.0	18.5	18.02	18.25	18.41	18.63	18.65	18.83	0.0	19.0	
		QPSK	1	1	17.74	17.97	18.14	18.21	18.28	18.42	0.0	18.5	18.27	18.45	18.64	18.60	18.72	18.76	0.0	19.0
			1	52	17.73	17.87	18.15	18.18	18.37	18.31	0.0	18.5	18.16	18.51	18.60	18.71	18.20	18.75	0.0	19.0
			1	104	17.70	18.04	18.24	18.35	18.37	18.38	0.0	18.5	18.21	18.60	18.56	18.73	18.74	18.90	0.0	19.0
			50	0	17.57	17.86	18.07	18.18	18.27	18.41	0.0	18.5	18.14	18.35	18.47	18.69	18.70	18.83	0.0	19.0
			50	28	17.70	17.97	18.06	18.24	18.27	18.26	0.0	18.5	18.18	18.43	18.57	18.67	18.75	18.71	0.0	19.0
			50	56	17.69	17.87	18.01	18.14	18.27	18.39	0.0	18.5	18.14	18.26	18.52	18.69	18.74	18.80	0.0	19.0
		16QAM	1	1	17.58	17.81	18.17	18.07	18.29	18.36	0.0	18.5	18.22	18.29	18.54	18.53	18.78	18.79	0.0	19.0
			1	52	17.65	17.91	17.98	18.04	18.21	18.40	0.0	18.5	18.11	18.47	18.63	18.62	18.82	18.86	0.0	19.0
			1	104	17.70	17.90	18.07	18.19	18.32	18.38	0.0	18.5	18.16	18.55	18.55	18.71	18.78	18.84	0.0	19.0
		64QAM	1	1	17.69	17.89	18.09	18.03	18.26	18.44	0.0	18.5	18.21	18.41	18.51	18.62	18.79	18.84	0.0	19.0
		256QAM	1	1	17.65	17.88	18.00	18.16	18.25	18.34	0.0	18.5	18.10	18.42	18.53	18.54	18.77	18.79	0.0	19.0
CP-OFDM	QPSK	1	1	17.77	18.03	18.13	18.07	18.30	18.43	0.0	18.5	18.39	18.49	18.72	18.74	18.86	18.91	0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647668	651000	654334	657666	661000	664332			647668	651000	654334	657666	661000	664332		
					3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz			3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.63	17.97	18.16	18.01	18.28	18.37	0.0	18.5	18.18	18.48	18.60	18.55	18.86	18.73	0.0	19.0
			1	39	17.70	17.94	18.02	18.16	18.36	18.41	0.0	18.5	18.18	18.34	18.52	18.67	18.96	18.79	0.0	19.0
			1	76	17.65	18.04	18.16	18.25	18.39	18.33	0.0	18.5	18.24	18.56	18.63	18.69	18.91	18.86	0.0	19.0
			36	0	17.50	17.81	17.93	18.04	18.23	18.38	0.0	18.5	18.18	18.31	18.36	18.59	18.82	18.70	0.0	19.0
			36	21	17.62	17.87	18.02	18.20	18.22	18.37	0.0	18.5	18.26	18.49	18.56	18.65	18.82	18.73	0.0	19.0
			36	42	17.54	17.98	18.10	18.22	18.24	18.42	0.0	18.5	18.11	18.38	18.54	18.60	18.81	18.79	0.0	19.0
		75	0	17.50	17.74	18.06	18.13	18.25	18.38	0.0	18.5	18.08	18.33	18.37	18.54	18.72	18.80	0.0	19.0	
		QPSK	1	1	17.73	17.93	18.13	18.09	18.35	18.46	0.0	18.5	18.18	18.45	18.58	18.57	18.77	18.81	0.0	19.0
			1	39	17.62	17.95	18.15	18.19	18.33	18.39	0.0	18.5	18.28	18.45	18.54	18.69	18.25	18.83	0.0	19.0
			1	76	17.66	17.96	18.17	18.28	18.38	18.35	0.0	18.5	18.21	18.47	18.61	18.72	18.83	18.84	0.0	19.0
			36	0	17.64	17.85	18.03	18.21	18.14	18.38	0.0	18.5	18.07	18.36	18.53	18.55	18.67	18.78	0.0	19.0
			36	21	17.74	17.94	18.11	18.17	18.28	18.28	0.0	18.5	18.16	18.42	18.44	18.57	18.72	18.69	0.0	19.0
			36	42	17.71	17.87	18.10	18.15	18.14	18.34	0.0	18.5	18.23	18.34	18.60	18.64	18.71	18.76	0.0	19.0
		75	0	17.65	17.90	18.14	18.23	18.24	18.26	0.0	18.5	18.10	18.45	18.46	18.58	18.80	18.67	0.0	19.0	
		16QAM	1	1	17.64	17.85	18.07	18.16	18.17	18.39	0.0	18.5	18.08	18.38	18.50	18.61	18.86	18.77	0.0	19.0
			1	39	17.60	17.88	18.04	18.05	18.19	18.33	0.0	18.5	18.11	18.42	18.53	18.62	18.88	18.79	0.0	19.0
			1	76	17.63	18.00	18.10	18.24	18.31	18.32	0.0	18.5	18.20	18.56	18.52	18.65	18.86	18.78	0.0	19.0
		64QAM	1	1	17.67	17.89	18.13	18.09	18.35	18.41	0.0	18.5	18.14	18.43	18.61	18.65	18.74	18.77	0.0	19.0
256QAM	1	1	17.67	17.88	18.11	18.15	18.28	18.35	0.0	18.5	18.19	18.50	18.67	18.61	18.74	18.89	0.0	19.0		
CP-OFDM	QPSK	1	1	17.75	18.08	18.06	18.08	18.37	18.48	0.0	18.5	18.28	18.48	18.77	18.69	18.98	18.85	0.0	19.0	

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647500	650900	654300	657700	661100	664500			647500	650900	654300	657700	661100	664500		
					3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz			3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.75	18.00	18.05	18.06	18.24	18.40	0.0	18.5	18.14	18.36	18.61	18.62	18.87	18.82	0.0	19.0
			1	32	17.68	17.97	18.11	18.15	18.41	18.33	0.0	18.5	18.18	18.29	18.66	18.72	18.86	18.86	0.0	19.0
			1	63	17.68	17.98	18.08	18.36	18.41	18.40	0.0	18.5	18.36	18.61	18.66	18.77	18.85	18.92	0.0	19.0
			32	0	17.52	17.83	17.92	18.09	18.16	18.31	0.0	18.5	18.13	18.30	18.47	18.52	18.83	18.73	0.0	19.0
			32	16	17.59	17.88	18.06	18.28	18.33	18.31	0.0	18.5	18.25	18.42	18.63	18.70	18.86	18.78	0.0	19.0
			32	33	17.55	17.89	18.04	18.11	18.20	18.43	0.0	18.5	18.14	18.32	18.50	18.63	18.78	18.73	0.0	19.0
		QPSK	64	0	17.60	17.88	18.08	18.06	18.15	18.33	0.0	18.5	18.10	18.29	18.35	18.55	18.63	18.72	0.0	19.0
			1	1	17.69	17.93	18.17	18.10	18.35	18.43	0.0	18.5	18.18	18.50	18.68	18.58	18.71	18.83	0.0	19.0
			1	32	17.69	17.96	18.11	18.27	18.37	18.32	0.0	18.5	18.29	18.47	18.61	18.71	18.21	18.70	0.0	19.0
			1	63	17.63	18.05	18.24	18.22	18.34	18.37	0.0	18.5	18.26	18.50	18.71	18.71	18.84	18.82	0.0	19.0
			32	0	17.61	17.83	18.02	18.07	18.22	18.37	0.0	18.5	18.19	18.34	18.53	18.56	18.74	18.77	0.0	19.0
			32	16	17.78	18.00	18.03	18.21	18.28	18.31	0.0	18.5	18.20	18.45	18.45	18.68	18.73	18.70	0.0	19.0
		16QAM	32	33	17.63	17.86	18.12	18.12	18.17	18.36	0.0	18.5	18.18	18.29	18.51	18.65	18.77	18.86	0.0	19.0
			64	0	17.68	17.84	18.02	18.21	18.17	18.29	0.0	18.5	18.07	18.31	18.54	18.57	18.79	18.74	0.0	19.0
			1	1	17.58	17.92	18.10	18.14	18.20	18.31	0.0	18.5	18.14	18.29	18.60	18.62	18.82	18.76	0.0	19.0
			1	32	17.57	17.79	18.06	18.01	18.23	18.29	0.0	18.5	18.14	18.40	18.57	18.64	18.84	18.74	0.0	19.0
64QAM	1	63	17.75	17.95	18.14	18.27	18.26	18.35	0.0	18.5	18.13	18.55	18.63	18.69	18.74	18.88	0.0	19.0		
	1	1	17.59	17.96	18.08	17.96	18.24	18.46	0.0	18.5	18.20	18.47	18.50	18.58	18.80	18.87	0.0	19.0		
256QAM	1	1	17.71	17.95	18.05	18.11	18.36	18.34	0.0	18.5	18.19	18.45	18.65	18.65	18.77	18.86	0.0	19.0		
CP-OFDM	QPSK	1	1	17.68	18.02	18.19	18.06	18.41	18.37	0.0	18.5	18.28	18.51	18.76	18.76	18.93	18.98	0.0	19.0	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
					3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz			3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.62	17.98	18.11	18.04	18.36	18.47	0.0	18.5	18.17	18.33	18.58	18.63	18.95	18.82	0.0	19.0
			1	25	17.65	17.86	18.00	18.26	18.46	18.39	0.0	18.5	18.18	18.44	18.63	18.66	18.93	18.76	0.0	19.0
			1	49	17.79	17.99	18.08	18.33	18.38	18.42	0.0	18.5	18.30	18.61	18.66	18.68	18.90	18.89	0.0	19.0
			25	0	17.61	17.79	17.93	18.07	18.21	18.31	0.0	18.5	18.17	18.38	18.36	18.54	18.74	18.80	0.0	19.0
			25	13	17.67	17.90	18.06	18.24	18.27	18.32	0.0	18.5	18.27	18.44	18.55	18.75	18.85	18.77	0.0	19.0
			25	26	17.59	17.93	17.98	18.07	18.31	18.41	0.0	18.5	18.08	18.29	18.51	18.68	18.84	18.75	0.0	19.0
		QPSK	50	0	17.55	17.79	18.03	18.13	18.16	18.41	0.0	18.5	18.07	18.26	18.43	18.53	18.78	18.74	0.0	19.0
			1	1	17.66	17.86	18.16	18.17	18.27	18.46	0.0	18.5	18.18	18.39	18.66	18.63	18.79	18.80	0.0	19.0
			1	25	17.69	17.94	18.06	18.26	18.31	18.39	0.0	18.5	18.16	18.50	18.67	18.60	18.21	18.75	0.0	19.0
			1	49	17.63	18.07	18.17	18.36	18.32	18.38	0.0	18.5	18.29	18.46	18.68	18.72	18.77	18.88	0.0	19.0
			25	0	17.58	17.84	18.07	18.14	18.25	18.40	0.0	18.5	18.18	18.34	18.42	18.64	18.74	18.80	0.0	19.0
			25	13	17.69	17.98	18.03	18.14	18.32	18.38	0.0	18.5	18.20	18.45	18.47	18.55	18.75	18.74	0.0	19.0
		16QAM	25	26	17.75	17.88	17.99	18.08	18.16	18.35	0.0	18.5	18.12	18.38	18.53	18.72	18.76	18.87	0.0	19.0
			50	0	17.65	17.94	18.06	18.15	18.18	18.24	0.0	18.5	18.14	18.45	18.50	18.59	18.83	18.75	0.0	19.0
			1	1	17.65	17.84	18.10	18.13	18.29	18.39	0.0	18.5	18.18	18.33	18.55	18.58	18.79	18.82	0.0	19.0
			1	25	17.63	17.83	18.01	18.15	18.18	18.38	0.0	18.5	18.20	18.45	18.50	18.60	18.89	18.83	0.0	19.0
64QAM	1	49	17.61	17.99	18.14	18.27	18.34	18.28	0.0	18.5	18.23	18.53	18.61	18.74	18.75	18.85	0.0	19.0		
	1	1	17.73	17.92	18.01	18.08	18.29	18.46	0.0	18.5	18.14	18.46	18.59	18.58	18.76	18.88	0.0	19.0		
256QAM	1	1	17.74	17.83	18.01	18.13	18.36	18.38	0.0	18.5	18.23	18.48	18.59	18.56	18.77	18.90	0.0	19.0		
CP-OFDM	QPSK	1	1	17.69	17.99	18.06	18.18	18.40	18.40	0.0	18.5	18.27	18.40	18.67	18.73	18.97	18.89	0.0	19.0	

Notes:
 NR Band n77 were measured output power through FTM mode provided by manufacturer

NR Band n77(3700-3980MHz) (Ant E) (Voice/data/SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647168	650700	654234	657766	661300	664832			647168	650700	654234	657766	661300	664832		
					3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz			3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.68	17.98	18.13	18.00	18.30	18.48	0.0	18.5	18.12	18.48	18.59	18.59	18.93	18.84	0.0	19.0
			1	18	17.63	17.93	18.10	18.27	18.32	18.43	0.0	18.5	18.14	18.40	18.65	18.67	18.96	18.87	0.0	19.0
			1	36	17.71	18.05	18.04	18.24	18.31	18.32	0.0	18.5	18.34	18.48	18.72	18.81	18.84	18.81	0.0	19.0
			18	0	17.49	17.77	17.94	18.10	18.15	18.33	0.0	18.5	18.15	18.39	18.49	18.58	18.71	18.65	0.0	19.0
			18	10	17.62	17.98	18.05	18.27	18.23	18.31	0.0	18.5	18.22	18.48	18.56	18.70	18.88	18.76	0.0	19.0
			18	20	17.64	17.84	18.10	18.18	18.18	18.44	0.0	18.5	18.16	18.37	18.56	18.63	18.84	18.80	0.0	19.0
		36	0	17.56	17.75	18.05	18.09	18.11	18.34	0.0	18.5	18.10	18.23	18.37	18.55	18.71	18.73	0.0	19.0	
		1	1	17.75	17.94	18.09	18.10	18.26	18.46	0.0	18.5	18.18	18.43	18.61	18.62	18.77	18.86	0.0	19.0	
		1	18	17.67	18.01	18.04	18.15	18.30	18.37	0.0	18.5	18.25	18.49	18.56	18.63	18.31	18.76	0.0	19.0	
		1	36	17.67	18.08	18.20	18.26	18.38	18.38	0.0	18.5	18.26	18.48	18.71	18.79	18.78	18.88	0.0	19.0	
		18	0	17.52	17.83	18.03	18.16	18.22	18.41	0.0	18.5	18.09	18.31	18.43	18.64	18.71	18.84	0.0	19.0	
		18	10	17.74	17.85	18.02	18.15	18.23	18.30	0.0	18.5	18.14	18.52	18.44	18.65	18.73	18.72	0.0	19.0	
		18	20	17.64	17.83	18.02	18.15	18.12	18.33	0.0	18.5	18.13	18.38	18.60	18.75	18.85	18.78	0.0	19.0	
		36	0	17.57	17.89	18.12	18.11	18.23	18.32	0.0	18.5	18.08	18.41	18.52	18.69	18.77	18.78	0.0	19.0	
		1	1	17.58	17.93	18.18	18.15	18.31	18.33	0.0	18.5	18.09	18.37	18.60	18.58	18.86	18.84	0.0	19.0	
		1	18	17.63	17.88	17.95	18.10	18.20	18.27	0.0	18.5	18.13	18.36	18.54	18.57	18.82	18.74	0.0	19.0	
		1	36	17.72	17.97	18.12	18.29	18.36	18.37	0.0	18.5	18.20	18.48	18.53	18.79	18.84	18.88	0.0	19.0	
		1	1	17.73	17.91	18.06	18.07	18.25	18.34	0.0	18.5	18.15	18.33	18.55	18.61	18.83	18.78	0.0	19.0	
1	1	17.62	17.92	18.07	18.14	18.36	18.43	0.0	18.5	18.18	18.39	18.63	18.63	18.76	18.83	0.0	19.0			
1	1	17.75	17.94	18.17	18.08	18.33	18.41	0.0	18.5	18.39	18.40	18.72	18.81	18.97	18.85	0.0	19.0			
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.74	17.99	18.18	18.12	18.36	18.49	0.0	18.5	18.18	18.46	18.66	18.64	18.94	18.84	0.0	19.0
			1	12	17.76	17.97	18.11	18.25	18.44	18.44	0.0	18.5	18.25	18.42	18.65	18.78	18.95	18.86	0.0	19.0
			1	22	17.77	18.08	18.16	18.37	18.42	18.45	0.0	18.5	18.36	18.61	18.72	18.81	18.89	18.91	0.0	19.0
			12	0	17.62	17.86	18.04	18.16	18.24	18.38	0.0	18.5	18.16	18.38	18.49	18.64	18.81	18.78	0.0	19.0
			12	6	17.72	17.98	18.06	18.27	18.33	18.38	0.0	18.5	18.28	18.49	18.61	18.76	18.93	18.84	0.0	19.0
			12	12	17.64	17.96	18.11	18.20	18.30	18.44	0.0	18.5	18.18	18.42	18.54	18.68	18.83	18.82	0.0	19.0
		24	0	17.63	17.86	18.07	18.14	18.24	18.39	0.0	18.5	18.13	18.34	18.47	18.65	18.76	18.81	0.0	19.0	
		1	1	17.78	17.98	18.20	18.20	18.35	18.46	0.0	18.5	18.28	18.51	18.68	18.63	18.84	18.88	0.0	19.0	
		1	12	17.74	17.99	18.17	18.28	18.36	18.38	0.0	18.5	18.29	18.51	18.66	18.72	18.30	18.83	0.0	19.0	
		1	22	17.76	18.06	18.26	18.35	18.39	18.48	0.0	18.5	18.31	18.58	18.69	18.78	18.86	18.90	0.0	19.0	
		12	0	17.63	17.94	18.06	18.19	18.27	18.41	0.0	18.5	18.18	18.35	18.53	18.67	18.78	18.83	0.0	19.0	
		12	6	17.78	17.98	18.13	18.24	18.34	18.39	0.0	18.5	18.27	18.51	18.57	18.67	18.81	18.79	0.0	19.0	
		12	12	17.73	17.96	18.12	18.19	18.25	18.38	0.0	18.5	18.23	18.39	18.63	18.73	18.83	18.87	0.0	19.0	
		24	0	17.68	17.94	18.12	18.22	18.26	18.34	0.0	18.5	18.19	18.44	18.59	18.68	18.86	18.79	0.0	19.0	
		1	1	17.68	17.93	18.18	18.16	18.29	18.44	0.0	18.5	18.21	18.41	18.61	18.65	18.84	18.87	0.0	19.0	
		1	12	17.69	17.91	18.06	18.14	18.29	18.39	0.0	18.5	18.22	18.48	18.63	18.67	18.88	18.87	0.0	19.0	
		1	22	17.73	17.99	18.15	18.32	18.34	18.41	0.0	18.5	18.23	18.55	18.65	18.77	18.87	18.88	0.0	19.0	
		1	1	17.72	17.94	18.11	18.09	18.34	18.44	0.0	18.5	18.24	18.46	18.63	18.68	18.86	18.89	0.0	19.0	
1	1	17.74	17.95	18.13	18.14	18.34	18.43	0.0	18.5	18.23	18.49	18.65	18.64	18.86	18.88	0.0	19.0			
1	1	17.75	18.07	18.17	18.17	18.41	18.49	0.0	18.5	18.37	18.51	18.79	18.81	18.97	18.98	0.0	19.0			

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer

NR Band n77 (3450-3500MHz & 3700-3980MHz) (Ant.C) (SRS1) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)						
		DSI = 0, 1, 2, 3			DSI = 0, 1, 2, 3						
		Measured Pwr (dBm)			Measured Pwr (dBm)						
		633334		Tune-up Limit	650000					662000	Tune-up Limit
		3500.01 MHz			3750.00 MHz					3930.00 MHz	
100 MHz	SRS CW	13.69		15.0	14.69					13.13	15.0
		633332		Tune-up Limit	649668			656000		662332	Tune-up Limit
		3499.98 MHz			3745.02 MHz			3840.00 MHz		3934.98 MHz	
90 MHz	SRS CW	13.54		15.0	14.48			13.97		13.45	15.0
		633332		Tune-up Limit	649334			656000		662666	Tune-up Limit
		3499.98 MHz			3740.01 MHz			3840.00 MHz		3939.99 MHz	
80 MHz	SRS CW	13.61		15.0	14.55			13.84		13.67	15.0
		633332		Tune-up Limit	649000	653666			658334	663000	Tune-up Limit
		3499.98 MHz			3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz	
70 MHz	SRS CW	13.54		15.0	14.54	13.91			13.57	13.41	15.0
		633332		Tune-up Limit	648668	653556			658444	663332	Tune-up Limit
		3499.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz	
60 MHz	SRS CW	13.57		15.0	14.36	13.88			13.61	13.40	15.0
		631668		Tune-up Limit	648334	652168			656000	659834	Tune-up Limit
		3475.02 MHz			3725.01 MHz	3782.52 MHz			3840.00 MHz	3897.51 MHz	3954.99 MHz
50 MHz	SRS CW	13.66		15.0	14.59	14.29			13.77	13.66	13.70
		631334		Tune-up Limit	648000	651200	654400	657600	660800	664000	Tune-up Limit
		3470.01 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz	
40 MHz	SRS CW	13.50		15.0	14.64	14.51	14.40	14.12	13.61	13.74	15.0
		631000	633332	635666	Tune-up Limit	647668	651000	654334	657666	661000	664332
		3465.00 MHz	3499.98 MHz	3534.99 MHz		3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz
30 MHz	SRS CW	13.47	13.61	13.57	15.0	14.54	14.47	14.21	14.07	13.57	13.55
		630834	633332	635832	Tune-up Limit	647500	650900	654300	657700	661100	664500
		3462.51 MHz	3499.98 MHz	3537.48 MHz		3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz
25 MHz	SRS CW	13.64	13.47	13.50	15.0	14.67	14.57	14.30	14.01	13.49	13.67
		630668	633332	636000	Tune-up Limit	647334	650800	654266	657734	661200	664666
		3460.02 MHz	3499.98 MHz	3540.00 MHz		3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz
20 MHz	SRS CW	13.50	13.54	13.40	15.0	14.97	14.81	14.42	14.21	13.87	14.02
		630500	633332	636166	Tune-up Limit	647168	650700	654234	657766	661300	664832
		3457.50 MHz	3499.98 MHz	3542.49 MHz		3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz
15 MHz	SRS CW	13.51	13.61	13.32	15.0	14.99	14.88	14.41	14.10	13.94	14.07
		630334	633334	636332	Tune-up Limit	647000	650600	654200	657800	661400	665000
		3455.01 MHz	3500.01 MHz	3544.98 MHz		3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz
10 MHz	SRS CW	14.08	13.70	13.46	15.0	14.92	14.64	14.11	13.37	12.81	12.68

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77 (3450-3500MHz & 3700-3980MHz) (Ant.F) (SRS2) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)							Tune-up Limit
		DSI = 0, 1, 2, 3			DSI = 0, 1, 2, 3							
		Measured Pw r (dBm)			Measured Pw r (dBm)							
		633332			650000						662000	
		3499.98 MHz			3750.00 MHz						3930.00 MHz	
100 MHz	SRS CW	14.61			15.0	14.58					14.75	15.0
		633332			649668			656000			662332	
		3499.98 MHz			3745.02 MHz			3840.00 MHz			3934.98 MHz	
90 MHz	SRS CW	14.47			15.0	14.61			14.96		14.71	15.0
		633332			649334			656000			662666	
		3499.98 MHz			3740.01 MHz			3840.00 MHz			3939.99 MHz	
80 MHz	SRS CW	14.51			15.0	14.47			14.99		14.68	15.0
		633332			649000	653666				658334	663000	
		3499.98 MHz			3735.00 MHz	3804.99 MHz				3875.01 MHz	3945.00 MHz	
70 MHz	SRS CW	14.57			15.0	14.43	14.89			14.77	14.47	15.0
		633332			648668	653556				658444	663332	
		3499.98 MHz			3730.02 MHz	3803.34 MHz				3876.66 MHz	3949.98 MHz	
60 MHz	SRS CW	14.49			15.0	14.41	14.78			14.71	14.37	15.0
		631668		635000	648334	652168		656000	659834		663666	
		3475.02 MHz		3525.00 MHz	3725.01 MHz	3782.52 MHz		3840.00 MHz	3897.51 MHz		3954.99 MHz	
50 MHz	SRS CW	14.57		14.32	15.0	14.39	14.66		14.87	14.68	14.44	15.0
		631334		635332	648000	651200	654400	657600	660800		664000	
		3470.01 MHz		3529.98 MHz	3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz		3960.00 MHz	
40 MHz	SRS CW	14.50		14.39	15.0	14.31	14.51	14.83	14.57	14.77	14.54	15.0
		631000	633332	635666	647668	651000	654334	657666	661000		664332	
		3465.00 MHz	3499.98 MHz	3534.99 MHz	3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz		3964.98 MHz	
30 MHz	SRS CW	14.51	14.45	14.36	15.0	14.11	14.47	14.81	14.61	14.46	14.47	15.0
		630834	633332	635832	647500	650900	654300	657700	661100		664500	
		3462.51 MHz	3499.98 MHz	3537.48 MHz	3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz		3967.50 MHz	
25 MHz	SRS CW	14.49	14.47	14.39	15.0	14.22	14.57	14.86	14.54	14.57	14.56	15.0
		630668	633332	636000	647334	650800	654266	657734	661200		664666	
		3460.02 MHz	3499.98 MHz	3540.00 MHz	3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz		3969.99 MHz	
20 MHz	SRS CW	14.47	14.42	14.40	15.0	14.15	14.63	14.74	14.59	14.63	14.60	15.0
		630500	633332	636166	647168	650700	654234	657766	661300		664832	
		3457.50 MHz	3499.98 MHz	3542.49 MHz	3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz		3972.48 MHz	
15 MHz	SRS CW	14.51	14.41	14.42	15.0	14.00	14.76	14.81	14.67	14.66	14.57	15.0
		630334	633334	636332	647000	650600	654200	657800	661400		665000	
		3455.01 MHz	3500.01 MHz	3544.98 MHz	3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz		3975.00 MHz	
10 MHz	SRS CW	14.93	14.78	14.44	15.0	14.28	14.67	14.77	14.83	14.71	14.74	15.0

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

NR Band n77 (3450-3500MHz & 3700-3980MHz) (Ant.A) (SRS3) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)							Tune-up Limit
		DSI = 0, 1, 2, 3			DSI = 0, 1, 2, 3							
		Measured Pwr (dBm)			Measured Pwr (dBm)							
		633334			650000						662000	
		3500.01 MHz			3750.00 MHz						3930.00 MHz	
100 MHz	SRS CW	14.87			15.0	14.41					13.57	15.0
		633332			649668				656000		662332	
		3499.98 MHz			3745.02 MHz				3840.00 MHz		3934.98 MHz	
90 MHz	SRS CW	14.41			15.0	14.02			14.01		13.89	15.0
		633332			649334				656000		662666	
		3499.98 MHz			3740.01 MHz				3840.00 MHz		3939.99 MHz	
80 MHz	SRS CW	14.35			15.0	13.96			13.89		13.45	15.0
		633332			649000	653666			658334		663000	
		3499.98 MHz			3735.00 MHz	3804.99 MHz			3875.01 MHz		3945.00 MHz	
70 MHz	SRS CW	14.21			15.0	14.01	14.05			13.57	13.44	15.0
		633332			648668	653556			658444		663332	
		3499.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz		3949.98 MHz	
60 MHz	SRS CW	14.13			15.0	13.98	14.06			13.52	13.32	15.0
		631668		635000	648334	652168			656000	659834	663666	
		3475.02 MHz		3525.00 MHz	3725.01 MHz	3782.52 MHz			3840.00 MHz	3897.51 MHz	3954.99 MHz	
50 MHz	SRS CW	14.42		14.45	15.0	13.97	14.01		13.91	13.81	14.11	15.0
		631334		635332	648000	651200	654400	657600	660800		664000	
		3470.01 MHz		3529.98 MHz	3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz		3960.00 MHz	
40 MHz	SRS CW	14.45		14.42	15.0	14.13	14.75	14.24	14.21	14.11	13.98	15.0
		631000	633332	635666	647668	651000	654334	657666	661000		664332	
		3465.00 MHz	3499.98 MHz	3534.99 MHz	3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz		3964.98 MHz	
30 MHz	SRS CW	14.23	14.19	14.28	15.0	13.95	14.67	14.15	13.62	13.85	13.96	15.0
		630834	633332	635832	647500	650900	654300	657700	661100		664500	
		3462.51 MHz	3499.98 MHz	3537.48 MHz	3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz		3967.50 MHz	
25 MHz	SRS CW	14.26	14.21	14.25	15.0	14.22	14.83	14.25	13.77	13.65	13.87	15.0
		630668	633332	636000	647334	650800	654266	657734	661200		664666	
		3460.02 MHz	3499.98 MHz	3540.00 MHz	3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz		3969.99 MHz	
20 MHz	SRS CW	14.12	14.15	14.18	15.0	14.07	14.75	14.17	13.88	13.34	13.77	15.0
		630500	633332	636166	647168	650700	654234	657766	661300		664832	
		3457.50 MHz	3499.98 MHz	3542.49 MHz	3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz		3972.48 MHz	
15 MHz	SRS CW	14.12	14.06	14.12	15.0	14.00	14.68	14.28	13.72	13.37	13.87	15.0
		630334	633334	636332	647000	650600	654200	657800	661400		665000	
		3455.01 MHz	3500.01 MHz	3544.98 MHz	3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz		3975.00 MHz	
10 MHz	SRS CW	14.12	14.08	14.13	15.0	14.46	14.89	14.69	14.05	13.68	13.92	15.0

Notes:

NR Band n77 were measured output power through FTM mode provided by manufacturer.

9.5. Wi-Fi 2.4 GHz (DTS Band)

WLAN SISO output power results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	WLAN mode power		
					Maximum Allowed Average power (dBm)		
					DSI = 0, 1, 3		
					Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G SISO Ant.G	802.11b	1 Mbps	1	2412.0	17.52	18.0	Yes
			6	2437.0	17.51		
			11	2462.0	17.41		
			12	2467.0	5.40		
			13	2472.0	-1.60		
	802.11g	6 Mbps	Not Required	Not Required	18.0	No	
	802.11n	6.5 Mbps			18.0		
	802.11ac	6.5 Mbps			18.0		
802.11ax	7.3 Mbps	18.0					
WiFi 2.4G SISO Ant.F	802.11b	1 Mbps	1	2412.0	16.93	18.0	Yes
			6	2437.0	16.91		
			11	2462.0	16.52		
			12	2467.0	5.52		
			13	2472.0	-1.60		
	802.11g	6 Mbps	Not Required	Not Required	18.0	No	
	802.11n	6.5 Mbps			18.0		
	802.11ac	6.5 Mbps			18.0		
802.11ax	7.3 Mbps	18.0					

WLAN MIMO output power results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	WLAN mode power		
					Maximum Allowed Average power (dBm)		
					DSI = 0, 1, 3		
					Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G MIMO Ant.G	802.11b	1 Mbps	1	2412.0	17.43	18.0	Yes
			6	2437.0	17.42		
			11	2462.0	17.40		
			12	2467.0	5.31		
			13	2472.0	-1.52		
	802.11g	6 Mbps	Not Required	Not Required	18.0	No	
	802.11n	6.5 Mbps			18.0		
	802.11ac	6.5 Mbps			18.0		
802.11ax	7.3 Mbps	18.0					
WiFi 2.4G MIMO Ant.F	802.11b	1 Mbps	1	2412.0	16.82	18.0	Yes
			6	2437.0	17.01		
			11	2462.0	16.42		
			12	2467.0	5.50		
			13	2472.0	-1.64		
	802.11g	6 Mbps	Not Required	Not Required	18.0	No	
	802.11n	6.5 Mbps			18.0		
	802.11ac	6.5 Mbps			18.0		
802.11ax	7.3 Mbps	18.0					

Note(s):

- SAR is not required for 802.11g/n modes when the adjusted SAR for 802.11b is < 1.2 W/kg.
- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11n/g/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cycle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
802.11b	8.813	8.920	100.00%	98.80%	1.01

Duty Cycle plots (802.11b-SISO)

51078 Swept SA

KEYSIGHT Input: RF Coupling: DC Align: Auto

RL

Input Z: 50 Ω Atten: 40 dB PNO: Fast Gate: Off Avg Type: Power (RMS) Trig: RF Burst

Freq Ref: Int (S) μW Path: Standard IF Gain: Low Sig Track: Off

NFE: Adaptive

1 2 3 4 5 6
W W W W W W W
A N N N N N

1 Spectrum

Scale/Div 10 dB Ref Level 30.00 dBm

Center 2.437000000 GHz Video BW 50 MHz* Span 0 Hz

Res BW 8 MHz Sweep 50.7 ms (20001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	17.83 ms	2.931 dBm		
2	Δ1	1	t (Δ)	8.813 ms (Δ)	2.161 dB		
3	Δ1	1	t (Δ)	8.920 ms (Δ)	2.372 dB		
4							
5							
6							

Frequency

Center Frequency 2.437000000 GHz

Span 0.00000000 Hz

Swept Span Zero Span

Full Span

Start Freq 2.437000000 GHz

Stop Freq 2.437000000 GHz

AUTO TUNE

CF Step 8.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Feb 20, 2024 12:00:08 PM

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

WLAN SISO Ant.G output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		
						DSI = 0, 1, 3		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz SISO Ant.G	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	54	5270.0	16.91	18.0	Yes
				62	5310.0	15.12	15.5	
		802.11ac (VHT80)	29.3 Mbps	Not Required		16.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		16.0	No		
	UNII 1 & UNII 2A	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No	
		802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No	
	5.5 (U-NII 2C)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	15.56	16.0	Yes
				122	5610.0	17.41	18.0	
				138	5690.0	17.35		
		802.11ac (VHT160)	58.5 Mbps	Not Required		14.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		14.0	No		
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	17.36	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	5.9 (U-NII 4)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	171	5855.0	17.41	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
		802.11ax (HE80)	30.6 Mbps	Not Required		18.0	No	
	UNII 3 & UNII 4	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No	
		802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No	

Note(s):

- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
- When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is
 - ≤ 1.2 W/kg, SAR is not required for UNII band I
 - > 1.2 W/kg, both bands should be tested independently for SAR.

WLAN SISO Ant.D output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		
						DSI = 0, 1, 3		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz SISO Ant.D	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	54	5270.0	17.68	18.0	Yes
				62	5310.0	15.43	15.5	
		802.11ac (VHT80)	29.3 Mbps	Not Required		16.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		16.0	No		
	UNII 1 & UNII 2A	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No	
		802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No	
	5.5 (U-NII 2C)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	15.34	16.0	Yes
				122	5610.0	17.73	18.0	
				138	5690.0	17.66	18.0	
		802.11ac (VHT160)	58.5 Mbps	Not Required		14.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		14.0	No		
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	17.77	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	5.9 (U-NII 4)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	171	5855.0	17.52	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
802.11ax (HE80)	30.6 Mbps	Not Required		18.0	No			
UNII 3 & UNII 4	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No		

Note(s):

- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
- When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is
 - ≤ 1.2 W/kg, SAR is not required for UNII band I
 - > 1.2 W/kg, both bands should be tested independently for SAR.

WLAN MIMO Ant.G output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		
						DSI = 0, 1, 3		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz MIMO Ant.G	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	54	5270.0	17.10	18.0	Yes
				62	5310.0	14.95	15.5	
		802.11ac (VHT80)	29.3 Mbps	Not Required		16.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		16.0	No		
	UNII 1 & UNII 2A	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No	
		802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No	
	5.5 (U-NII 2C)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	15.48	16.0	Yes
				122	5610.0	17.33	18.0	
				138	5690.0	17.30	18.0	
		802.11ac (VHT160)	58.5 Mbps	Not Required		14.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		14.0	No		
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	17.27	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	5.9 (U-NII 4)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	171	5855.0	17.27	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
802.11ax (HE80)	30.6 Mbps	Not Required		18.0	No			
UNII 3 & UNII 4	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No		

Note(s):

- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
- When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is
 - ≤ 1.2 W/kg, SAR is not required for UNII band I
 - > 1.2 W/kg, both bands should be tested independently for SAR.

WLAN MIMO Ant.D output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		
						DSI = 0, 1, 3		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz MIMO Ant.D	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	54	5270.0	17.70	18.0	Yes
				62	5310.0	15.46	15.5	
		802.11ac (VHT80)	29.3 Mbps	Not Required		16.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		16.0	No		
	UNII 1 & UNII 2A	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No	
		802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No	
	5.5 (UNII 2C)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	15.21	18.0	Yes
				122	5610.0	17.61		
				138	5690.0	17.55		
		802.11ac (VHT160)	58.5 Mbps	Not Required		14.0	No	
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
	802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No		
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		14.0	No		
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	17.66	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
	802.11ax (HE80)	36.0 Mbps	Not Required		18.0	No		
	5.9 (UNII 4)	802.11a	6 Mbps	Not Required		18.0	No	
		802.11n (HT20)	6.5 Mbps	Not Required		18.0	No	
		802.11n (HT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT20)	6.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT40)	13.5 Mbps	Not Required		18.0	No	
		802.11ac (VHT80)	29.3 Mbps	171	5855.0	17.39	18.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required		18.0	No	
		802.11ax (HE40)	14.6 Mbps	Not Required		18.0	No	
802.11ax (HE80)	30.6 Mbps	Not Required		18.0	No			
UNII 3 & UNII 4	802.11ac (VHT160)	58.5 Mbps	Not Required		16.0	No		
	802.11ax (HE160)	72.0 Mbps	Not Required		16.0	No		

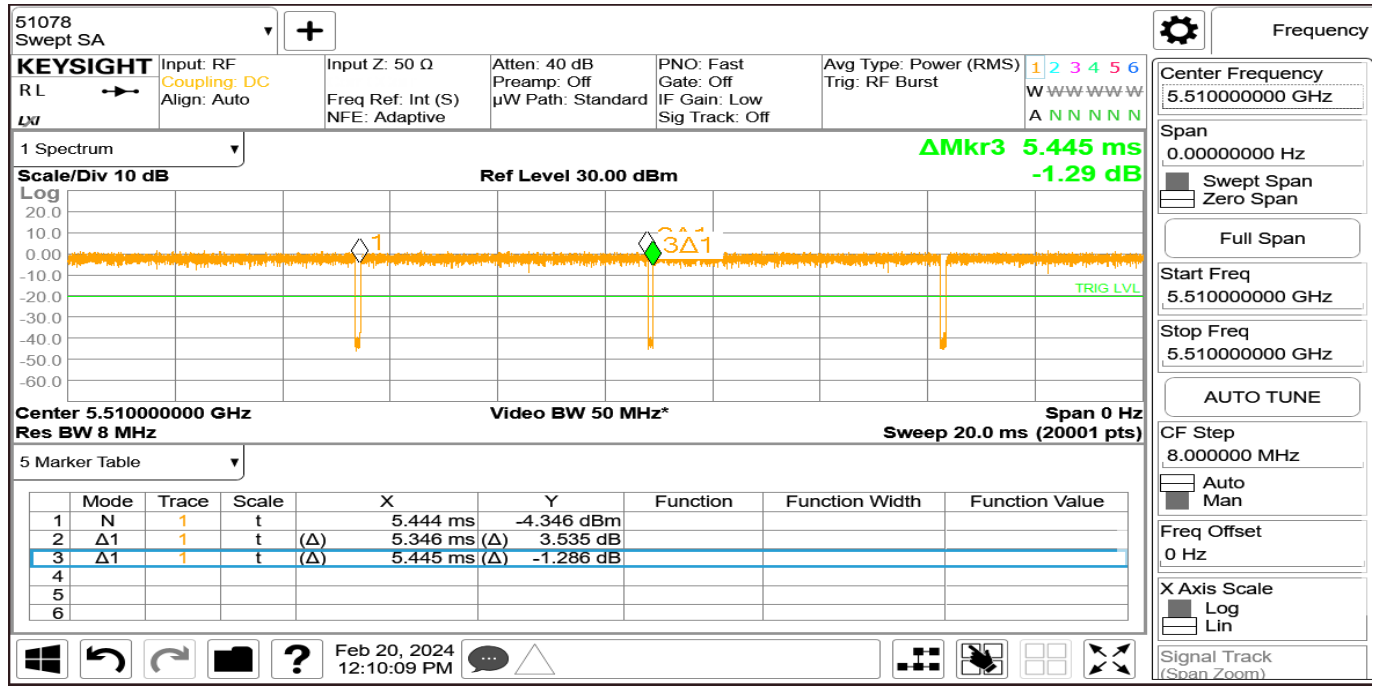
Note(s):

- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
- When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is
 - ≤ 1.2 W/kg, SAR is not required for UNII band I
 - > 1.2 W/kg, both bands should be tested independently for SAR.

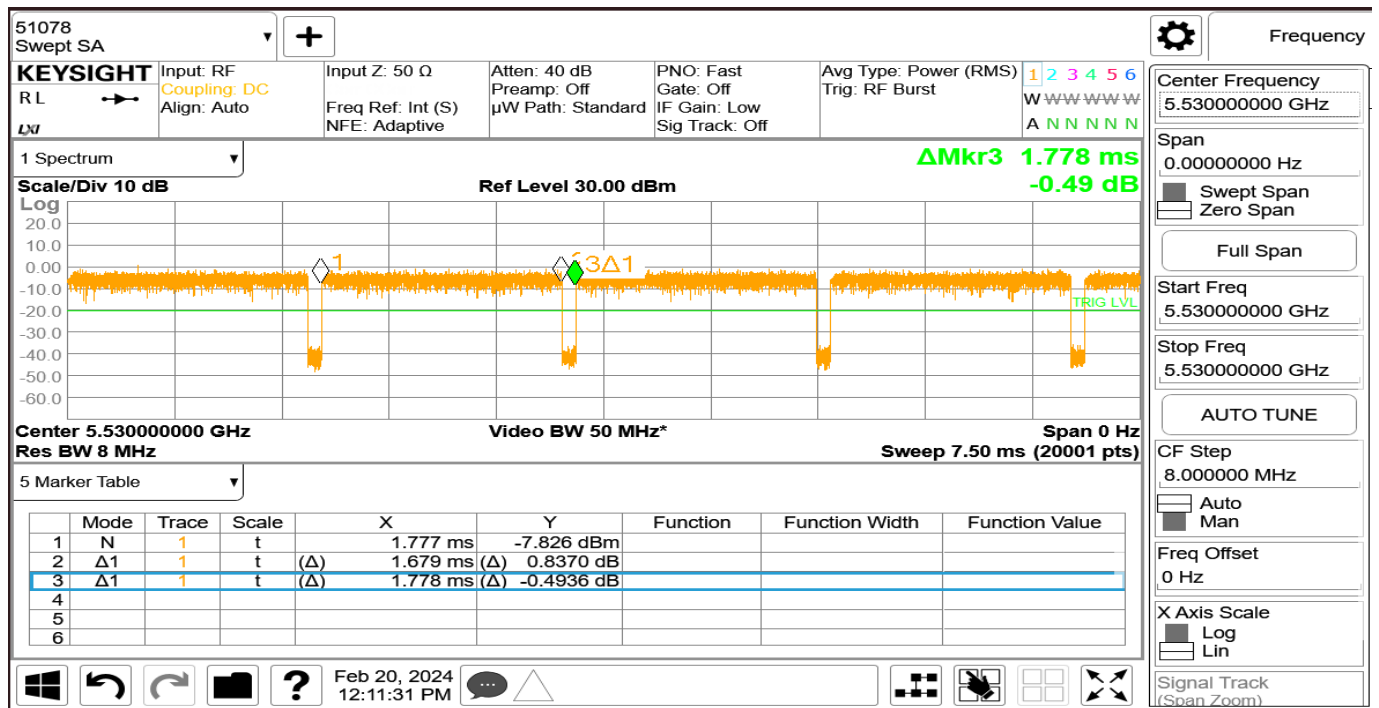
Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cycle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
802.11n HT40	5.346	5.445	100.00%	98.18%	1.02
802.11ac VHT80	1.679	1.778	100.00%	94.43%	1.06

Duty Cycle plots (802.11n HT40)



Duty Cycle plots (802.11ac VHT80)



9.7. Bluetooth

Bluetooth SISO output power Results

Band (GHz)	Antenna	Mode	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		SAR test			
					DSI = 0, 1, 2, 3					
					Meas Pwr	Tune-up Limit				
2.4	BT SISO Ant.G (PL11)	Bluetooth(BDR) (1Mbps)	0	2402	Not required	19.5	No			
			19	2441						
			39	2480						
		Bluetooth(EDR) (2/3Mbps)	0	2402				16.5	No	
			19	2441						
			39	2480						
		Bluetooth(LE) (1Mbps)	0	2402		18.88	19.5			Yes
			19	2440						
			39	2480						
		Bluetooth(LE) (2Mbps)	0	2402		Not required	19.5	No		
			19	2440						
			39	2480						
	BT SISO Ant.F (PL11)	Bluetooth(BDR) (1Mbps)	0	2402	Not required	19.5	No			
			19	2441						
			39	2480						
		Bluetooth(EDR) (2/3Mbps)	0	2402				16.5	No	
			19	2441						
			39	2480						
		Bluetooth(LE) (1Mbps)	0	2402		18.32	19.5			Yes
			19	2440						
			39	2480						
		Bluetooth(LE) (2Mbps)	0	2402		Not required	19.5	No		
			19	2440						
			39	2480						

Note(s):

For BT/BLE SISO SAR test, BLE(1Mbps) has highest time-based averaged power in all modes. So SAR test performed at (BLE1Mbps).

Bluetooth Dual(MIMO) output power Results

Band (GHz)	Antenna	Mode	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)		SAR test		
					DSI = 0, 1, 2, 3				
					Meas Pwr	Tune-up Limit			
2.4	BT SISO Ant.G (PL11)	Bluetooth(BDR) (1Mbps)	0	2402	14.04	15.5	Yes		
			39	2441	14.73				
			78	2480	12.23				
		Bluetooth(EDR) (2/3Mbps)	0	2402	Not required	13.0	No		
			39	2441					
			78	2480					
		Bluetooth(LE) (1/2Mbps)	0	2402				15.5	No
			39	2440					
			78	2480					
		BT SISO Ant.F (PL11)	Bluetooth(BDR) (1Mbps)	0		2402	14.10	15.5	Yes
				39		2441	14.90		
				78		2480	12.78		
	Bluetooth(EDR) (2/3Mbps)		0	2402		Not required	13.0	No	
			39	2441					
			78	2480					
	Bluetooth(LE) (1/2Mbps)		0	2402	15.0				No
			39	2440					
			78	2480					

Note(s):

For BT/BLE Dual(MIMO) SAR test, BT(BDR-1Mbps) has highest time-based averaged power in all modes. So SAR test performed at BT(BDR-1Mbps).

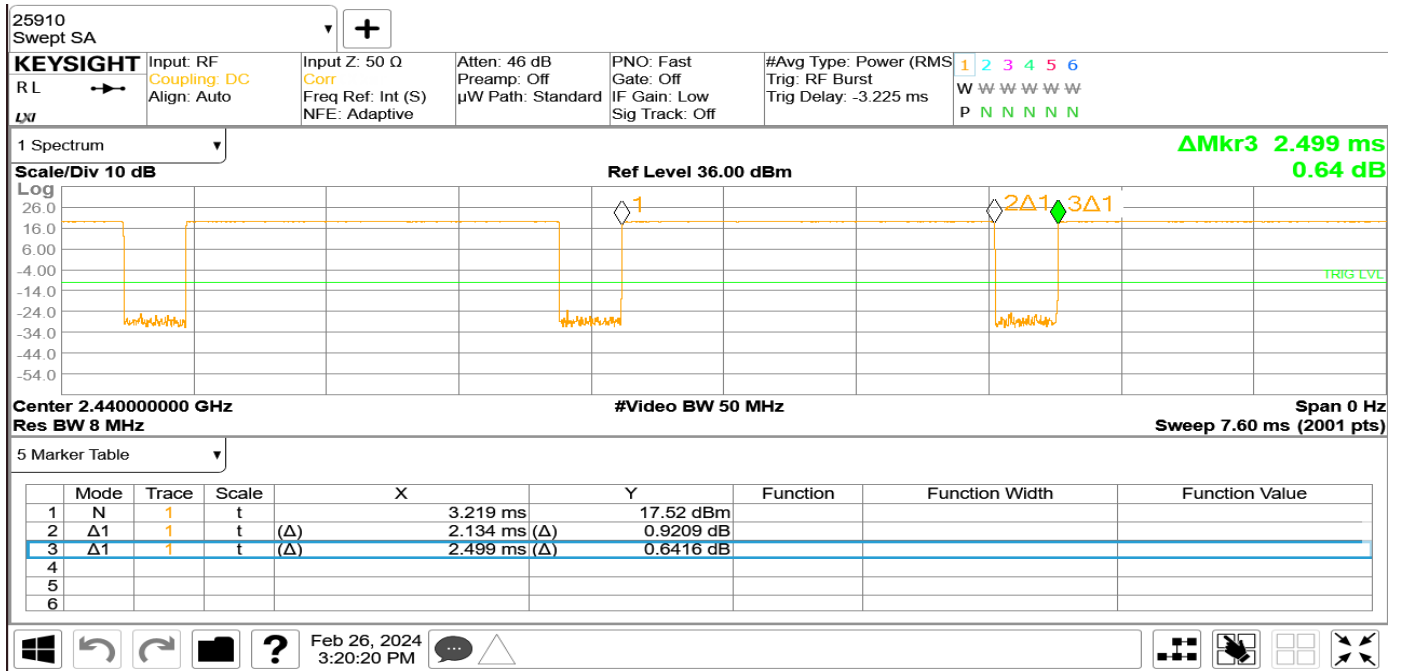
Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cycle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
BLE-1M	2.134	2.499	87.00%	85.39%	1.02
BT-BDR	2.883	3.740	79.00%	77.09%	1.02

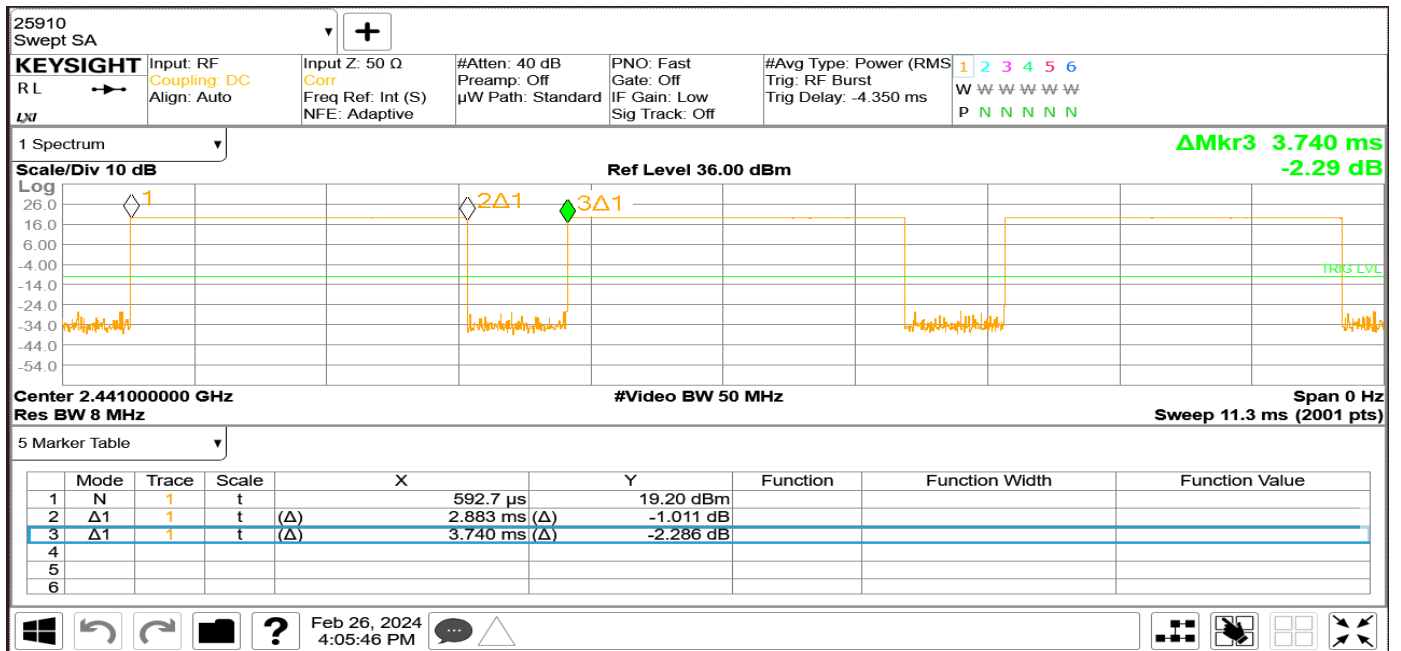
Note(s):

Maximum Duty Cycle is mentioned in Operational description. Detail of BT Duty Cycle refer to Operational description.

Duty Cycle plots (BLE-1M)



Duty Cycle plots (BT-BDR)



10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

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

KDB 447498 D01 General RF Exposure Guidance:

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

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

KDB 648474 D04 Handset SAR:

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

When the separation distance required for body-worn accessory testing is greater than or equal to that tested for hotspot mode, using the same wireless mode test configuration for voice and data, the hotspot SAR data may be used to support body-worn accessory SAR compliance for that particular configuration.

KDB 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm.

When hotspot mode does not apply, 10-g extremity SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

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

configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

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

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

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

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

10.1. Folder Closed (Phablet) SAR Results

10.1.1. GSM 850

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	GPRS2 Slots	DSI3	0	Left Touch	190	836.6	32.50	30.85	0.100	0.146	
Ant.A	Head	GPRS2 Slots	DSI3	0	Left Tilt	190	836.6	32.50	30.85	0.086	0.126	
Ant.A	Head	GPRS2 Slots	DSI3	0	Right Touch	190	836.6	32.50	30.85	0.062	0.091	
Ant.A	Head	GPRS2 Slots	DSI3	0	Right Tilt	190	836.6	32.50	30.85	0.037	0.054	
Ant.A	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Rear	190	836.6	32.50	30.85	0.226	0.330	
Ant.A	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Front	190	836.6	32.50	30.85	0.063	0.092	
Ant.A	Hotspot	GPRS2 Slots	DSI1	10	Bottom	190	836.6	32.50	30.85	0.064	0.094	
Ant.A	Hotspot	GPRS2 Slots	DSI1	10	Right	190	836.6	32.50	30.85	0.162	0.237	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	GPRS2 Slots	DSI3	0	Left Touch	190	836.6	32.50	30.85	0.131	0.192	
Ant.A+B	Head	GPRS2 Slots	DSI3	0	Left Tilt	190	836.6	32.50	30.85	0.099	0.145	
Ant.A+B	Head	GPRS2 Slots	DSI3	0	Right Touch	190	836.6	32.50	30.85	0.185	0.271	1
Ant.A+B	Head	GPRS2 Slots	DSI3	0	Right Tilt	190	836.6	32.50	30.85	0.128	0.187	
Ant.A+B	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Rear	190	836.6	32.50	30.85	0.300	0.439	2
Ant.A+B	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Front	190	836.6	32.50	30.85	0.086	0.126	
Ant.A+B	Hotspot	GPRS2 Slots	DSI1	10	Left	190	836.6	32.50	30.85	0.140	0.205	
Ant.A+B	Hotspot	GPRS2 Slots	DSI1	10	Bottom	190	836.6	32.50	30.85	0.133	0.194	
Ant.A+B	Hotspot	GPRS2 Slots	DSI1	10	Right	190	836.6	32.50	30.85	0.332	0.485	3

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	GPRS2 Slots	DSI3	0	Left Touch	128	824.2	32.50	31.29	0.107	0.141	4
Ant.D	Head	GPRS2 Slots	DSI3	0	Left Tilt	128	824.2	32.50	31.29	0.063	0.083	
Ant.D	Head	GPRS2 Slots	DSI3	0	Right Touch	128	824.2	32.50	31.29	0.049	0.065	
Ant.D	Head	GPRS2 Slots	DSI3	0	Right Tilt	128	824.2	32.50	31.29	0.041	0.054	
Ant.D	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Rear	128	824.2	32.50	31.29	0.105	0.139	
Ant.D	Bodyworn & Hotspot	GPRS2 Slots	DSI1	10	Front	128	824.2	32.50	31.29	0.064	0.085	
Ant.D	Hotspot	GPRS2 Slots	DSI1	10	Top	128	824.2	32.50	31.29	0.071	0.094	
Ant.D	Hotspot	GPRS2 Slots	DSI1	10	Right	128	824.2	32.50	31.29	0.204	0.270	5

10.1.2. GSM 1900

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	GPRS2 Slots	DS13	0	Left Touch	661	1880	29.00	27.30	0.061	0.089	6
Ant.B	Head	GPRS2 Slots	DS13	0	Left Tilt	661	1880	29.00	27.30	0.034	0.050	
Ant.B	Head	GPRS2 Slots	DS13	0	Right Touch	661	1880	29.00	27.30	0.055	0.082	
Ant.B	Head	GPRS2 Slots	DS13	0	Right Tilt	661	1880	29.00	27.30	0.041	0.061	
Ant.B	Bodyworn & Hotspot	GPRS4 Slots	DS11	10	Rear	661	1880	22.50	21.64	0.527	0.642	
Ant.B	Bodyworn & Hotspot	GPRS4 Slots	DS11	10	Front	661	1880	22.50	21.64	0.159	0.194	
Ant.B	Hotspot	GPRS4 Slots	DS11	10	Left	661	1880	22.50	21.64	0.084	0.103	
Ant.B	Hotspot	GPRS4 Slots	DS11	10	Bottom	512	1850.2	22.50	21.39	0.680	0.878	
Ant.B	Hotspot	GPRS4 Slots	DS11	10	Bottom	661	1880	22.50	21.64	0.795	0.969	
Ant.B	Hotspot	GPRS4 Slots	DS11	10	Bottom	810	1909.8	22.50	21.38	0.791	1.024	7
Ant.B	Hotspot	GPRS4 Slots	DS11	10	Right	661	1880	22.50	21.64	0.189	0.230	

10.1.3. WCDMA Band II

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Touch	9400	1880	25.00	23.84	0.137	0.179	
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Tilt	9400	1880	25.00	23.84	0.069	0.090	
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Touch	9400	1880	25.00	23.84	0.145	0.189	8
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Tilt	9400	1880	25.00	23.84	0.096	0.126	
Ant.B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Rear	9400	1880	20.00	19.32	0.662	0.774	
Ant.B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Front	9400	1880	20.00	19.32	0.193	0.226	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Left	9400	1880	20.00	19.32	0.106	0.124	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	9262	1852.4	20.00	19.27	0.928	1.098	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	9400	1880	20.00	19.32	0.945	1.105	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	9538	1907.6	20.00	19.24	0.994	1.184	9
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Right	9400	1880	20.00	19.32	0.232	0.271	

10.1.4. WCDMA Band IV

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Touch	1413	1732.6	24.80	23.64	0.100	0.131	
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Tilt	1413	1732.6	24.80	23.64	0.051	0.067	
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Touch	1413	1732.6	24.80	23.64	0.101	0.132	10
Ant.B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Tilt	1413	1732.6	24.80	23.64	0.061	0.080	
Ant.B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Rear	1413	1732.6	20.00	19.34	0.598	0.696	
Ant.B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Front	1413	1732.6	20.00	19.34	0.187	0.218	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Left	1413	1732.6	20.00	19.34	0.067	0.078	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	1312	1712.4	20.00	19.60	0.771	0.845	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	1413	1732.6	20.00	19.34	0.772	0.899	
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	1513	1752.6	20.00	19.22	0.818	0.979	11
Ant.B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Right	1413	1732.6	20.00	19.34	0.143	0.166	

10.1.5. WCDMA Band V

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Touch	4183	836.6	25.50	24.55	0.121	0.151	
Ant.A	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Tilt	4183	836.6	25.50	24.55	0.092	0.114	
Ant.A	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Touch	4183	836.6	25.50	24.55	0.151	0.188	
Ant.A	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Tilt	4183	836.6	25.50	24.55	0.101	0.126	
Ant.A	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Rear	4183	836.6	25.50	24.55	0.446	0.555	12
Ant.A	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Front	4183	836.6	25.50	24.55	0.193	0.240	
Ant.A	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	4183	836.6	25.50	24.55	0.129	0.161	
Ant.A	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Right	4183	836.6	25.50	24.55	0.407	0.507	13

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Touch	4183	836.6	25.50	24.55	0.134	0.167	
Ant.A+B	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Tilt	4183	836.6	25.50	24.55	0.094	0.117	
Ant.A+B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Touch	4183	836.6	25.50	24.55	0.180	0.224	14
Ant.A+B	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Tilt	4183	836.6	25.50	24.55	0.112	0.139	
Ant.A+B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Rear	4183	836.6	25.50	24.55	0.116	0.144	
Ant.A+B	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Front	4183	836.6	25.50	24.55	0.083	0.103	
Ant.A+B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Left	4183	836.6	25.50	24.55	0.034	0.042	
Ant.A+B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Bottom	4183	836.6	25.50	24.55	0.137	0.170	
Ant.A+B	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Right	4183	836.6	25.50	24.55	0.341	0.424	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Touch	4183	836.6	25.50	24.13	0.202	0.277	15
Ant.D	Head	Rel 99RMC 12.2 kbps	DS13	0	Left Tilt	4183	836.6	25.50	24.13	0.117	0.160	
Ant.D	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Touch	4183	836.6	25.50	24.13	0.090	0.123	
Ant.D	Head	Rel 99RMC 12.2 kbps	DS13	0	Right Tilt	4183	836.6	25.50	24.13	0.078	0.107	
Ant.D	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Rear	4183	836.6	25.50	24.13	0.236	0.324	16
Ant.D	Bodyworn & Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Front	4183	836.6	25.50	24.13	0.110	0.151	
Ant.D	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Top	4183	836.6	25.50	24.13	0.131	0.180	
Ant.D	Hotspot	Rel 99RMC 12.2 kbps	DS11	10	Right	4183	836.6	25.50	24.13	0.206	0.282	

10.1.6. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	QPSK	DSI3	0	Left Touch	20525	836.5	1	25	25.50	24.22	0.135	0.181	
Ant.A	Head	QPSK	DSI3	0	Left Touch	20525	836.5	25	0	24.50	23.18	0.104	0.141	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	1	25	25.50	24.22	0.093	0.125	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	25	0	24.50	23.18	0.078	0.106	
Ant.A	Head	QPSK	DSI3	0	Right Touch	20525	836.5	1	25	25.50	24.22	0.173	0.232	
Ant.A	Head	QPSK	DSI3	0	Right Touch	20525	836.5	25	0	24.50	23.18	0.129	0.175	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	1	25	25.50	24.22	0.102	0.137	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	25	0	24.50	23.18	0.085	0.115	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	1	25	25.50	24.22	0.429	0.576	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	25	0	24.50	23.18	0.344	0.466	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	1	25	25.50	24.22	0.135	0.181	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	25	0	24.50	23.18	0.129	0.175	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	20525	836.5	1	25	25.50	24.22	0.128	0.172	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	20525	836.5	25	0	24.50	23.18	0.090	0.122	
Ant.A	Hotspot	QPSK	DSI1	10	Right	20525	836.5	1	25	25.50	24.22	0.321	0.431	17
Ant.A	Hotspot	QPSK	DSI1	10	Right	20525	836.5	25	0	24.50	23.18	0.219	0.297	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	20525	836.5	1	25	25.50	24.22	0.134	0.180	
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	20525	836.5	25	0	24.50	23.18	0.114	0.154	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	1	25	25.50	24.22	0.093	0.125	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	25	0	24.50	23.18	0.078	0.106	
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	20525	836.5	1	25	25.50	24.22	0.173	0.232	18
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	20525	836.5	25	0	24.50	23.18	0.136	0.184	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	1	25	25.50	24.22	0.130	0.175	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	25	0	24.50	23.18	0.110	0.149	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	1	25	25.50	24.22	0.440	0.591	19
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	25	0	24.50	23.18	0.386	0.523	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	1	25	25.50	24.22	0.173	0.232	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	25	0	24.50	23.18	0.136	0.184	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	20525	836.5	1	25	25.50	24.22	0.156	0.209	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	20525	836.5	25	0	24.50	23.18	0.128	0.173	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	20525	836.5	1	25	25.50	24.22	0.192	0.258	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	20525	836.5	25	0	24.50	23.18	0.156	0.211	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	20525	836.5	1	25	25.50	24.22	0.287	0.385	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	20525	836.5	25	0	24.50	23.18	0.300	0.407	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	QPSK	DSI3	0	Left Touch	20525	836.5	1	25	25.50	24.20	0.135	0.182	20
Ant.D	Head	QPSK	DSI3	0	Left Touch	20525	836.5	25	12	24.50	23.23	0.110	0.147	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	1	25	25.50	24.20	0.095	0.128	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	20525	836.5	25	12	24.50	23.23	0.077	0.103	
Ant.D	Head	QPSK	DSI3	0	Right Touch	20525	836.5	1	25	25.50	24.20	0.078	0.105	
Ant.D	Head	QPSK	DSI3	0	Right Touch	20525	836.5	25	12	24.50	23.23	0.063	0.084	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	1	25	25.50	24.20	0.069	0.093	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	20525	836.5	25	12	24.50	23.23	0.054	0.072	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	1	25	25.50	24.20	0.100	0.135	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	20525	836.5	25	12	24.50	23.23	0.079	0.106	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	1	25	25.50	24.20	0.070	0.094	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	20525	836.5	25	12	24.50	23.23	0.058	0.078	
Ant.D	Hotspot	QPSK	DSI1	10	Top	20525	836.5	1	25	25.50	24.20	0.125	0.169	
Ant.D	Hotspot	QPSK	DSI1	10	Top	20525	836.5	25	12	24.50	23.23	0.102	0.137	
Ant.D	Hotspot	QPSK	DSI1	10	Right	20525	836.5	1	25	25.50	24.20	0.204	0.275	21
Ant.D	Hotspot	QPSK	DSI1	10	Right	20525	836.5	25	12	24.50	23.23	0.170	0.228	

10.1.7. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	QPSK	DSI3	0	Left Touch	23095	707.5	1	49	25.50	24.70	0.136	0.164	
Ant.A	Head	QPSK	DSI3	0	Left Touch	23095	707.5	25	25	24.50	23.71	0.114	0.137	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	1	49	25.50	24.70	0.086	0.103	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	25	25	24.50	23.71	0.071	0.085	
Ant.A	Head	QPSK	DSI3	0	Right Touch	23095	707.5	1	49	25.50	24.70	0.164	0.197	
Ant.A	Head	QPSK	DSI3	0	Right Touch	23095	707.5	25	25	24.50	23.71	0.132	0.158	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	1	49	25.50	24.70	0.088	0.106	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	25	25	24.50	23.71	0.073	0.088	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	1	49	25.50	24.70	0.280	0.337	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	25	25	24.50	23.71	0.224	0.269	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	1	49	25.50	24.70	0.161	0.194	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	25	25	24.50	23.71	0.127	0.152	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	23095	707.5	1	49	25.50	24.70	0.099	0.119	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	23095	707.5	25	25	24.50	23.71	0.081	0.097	
Ant.A	Hotspot	QPSK	DSI1	10	Right	23095	707.5	1	49	25.50	24.70	0.317	0.381	22
Ant.A	Hotspot	QPSK	DSI1	10	Right	23095	707.5	25	25	24.50	23.71	0.255	0.306	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	23095	707.5	1	49	25.50	24.70	0.130	0.156	
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	23095	707.5	25	25	24.50	23.71	0.103	0.124	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	1	49	25.50	24.70	0.071	0.085	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	25	25	24.50	23.71	0.059	0.071	
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	23095	707.5	1	49	25.50	24.70	0.171	0.206	23
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	23095	707.5	25	25	24.50	23.71	0.126	0.151	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	1	49	25.50	24.70	0.121	0.145	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	25	25	24.50	23.71	0.089	0.107	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	1	49	25.50	24.70	0.286	0.344	24
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	25	25	24.50	23.71	0.228	0.273	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	1	49	25.50	24.70	0.164	0.197	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	25	25	24.50	23.71	0.130	0.156	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	23095	707.5	1	49	25.50	24.70	0.158	0.190	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	23095	707.5	25	25	24.50	23.71	0.133	0.160	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	23095	707.5	1	49	25.50	24.70	0.144	0.173	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	23095	707.5	25	25	24.50	23.71	0.113	0.136	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	23095	707.5	1	49	25.50	24.70	0.313	0.376	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	23095	707.5	25	25	24.50	23.71	0.267	0.320	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	QPSK	DSI3	0	Left Touch	23095	707.5	1	25	25.50	24.65	0.198	0.241	25
Ant.D	Head	QPSK	DSI3	0	Left Touch	23095	707.5	25	25	24.50	23.77	0.165	0.195	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	1	25	25.50	24.65	0.137	0.167	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	23095	707.5	25	25	24.50	23.77	0.104	0.123	
Ant.D	Head	QPSK	DSI3	0	Right Touch	23095	707.5	1	25	25.50	24.65	0.104	0.126	
Ant.D	Head	QPSK	DSI3	0	Right Touch	23095	707.5	25	25	24.50	23.77	0.085	0.101	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	1	25	25.50	24.65	0.061	0.074	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	23095	707.5	25	25	24.50	23.77	0.050	0.059	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	1	25	25.50	24.65	0.219	0.266	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23095	707.5	25	25	24.50	23.77	0.163	0.193	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	1	25	25.50	24.65	0.080	0.097	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23095	707.5	25	25	24.50	23.77	0.066	0.078	
Ant.D	Hotspot	QPSK	DSI1	10	Top	23095	707.5	1	25	25.50	24.65	0.119	0.145	
Ant.D	Hotspot	QPSK	DSI1	10	Top	23095	707.5	25	25	24.50	23.77	0.097	0.115	
Ant.D	Hotspot	QPSK	DSI1	10	Right	23095	707.5	1	25	25.50	24.65	0.238	0.289	26
Ant.D	Hotspot	QPSK	DSI1	10	Right	23095	707.5	25	25	24.50	23.77	0.197	0.233	

10.1.8. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	QPSK	DSI3	0	Left Touch	23230	782	1	25	25.00	23.32	0.074	0.109	
Ant.A	Head	QPSK	DSI3	0	Left Touch	23230	782	25	0	24.00	22.34	0.061	0.089	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	23230	782	1	25	25.00	23.32	0.056	0.082	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	23230	782	25	0	24.00	22.34	0.046	0.067	
Ant.A	Head	QPSK	DSI3	0	Right Touch	23230	782	1	25	25.00	23.32	0.078	0.115	
Ant.A	Head	QPSK	DSI3	0	Right Touch	23230	782	25	0	24.00	22.34	0.060	0.088	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	23230	782	1	25	25.00	23.32	0.057	0.084	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	23230	782	25	0	24.00	22.34	0.047	0.069	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	1	25	25.00	23.32	0.249	0.367	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	25	0	24.00	22.34	0.200	0.293	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	1	25	25.00	23.32	0.119	0.175	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	25	0	24.00	22.34	0.094	0.138	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	23230	782	1	25	25.00	23.32	0.089	0.131	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	23230	782	25	0	24.00	22.34	0.068	0.100	
Ant.A	Hotspot	QPSK	DSI1	10	Right	23230	782	1	25	25.00	23.32	0.211	0.311	
Ant.A	Hotspot	QPSK	DSI1	10	Right	23230	782	25	0	24.00	22.34	0.169	0.248	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	23230	782	1	25	25.00	23.32	0.077	0.113	
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	23230	782	24	0	24.00	22.34	0.059	0.086	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	23230	782	1	25	25.00	23.32	0.061	0.090	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	23230	782	24	0	24.00	22.34	0.049	0.072	
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	23230	782	1	25	25.00	23.32	0.084	0.124	27
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	23230	782	24	0	24.00	22.34	0.066	0.097	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	23230	782	1	25	25.00	23.32	0.072	0.106	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	23230	782	24	0	24.00	22.34	0.060	0.088	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	1	25	25.00	23.32	0.250	0.368	28
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	24	0	24.00	22.34	0.216	0.317	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	1	25	25.00	23.32	0.124	0.183	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	24	0	24.00	22.34	0.098	0.144	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	23230	782	1	25	25.00	23.32	0.140	0.206	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	23230	782	24	0	24.00	22.34	0.114	0.167	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	23230	782	1	25	25.00	23.32	0.125	0.184	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	23230	782	24	0	24.00	22.34	0.102	0.149	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	23230	782	1	25	25.00	23.32	0.235	0.346	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	23230	782	24	0	24.00	22.34	0.252	0.369	29

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	QPSK	DSI3	0	Left Touch	23230	782	1	0	25.00	23.20	0.311	0.471	30
Ant.D	Head	QPSK	DSI3	0	Left Touch	23230	782	25	0	24.00	22.21	0.233	0.352	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	23230	782	1	0	25.00	23.20	0.196	0.297	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	23230	782	25	0	24.00	22.21	0.143	0.216	
Ant.D	Head	QPSK	DSI3	0	Right Touch	23230	782	1	0	25.00	23.20	0.025	0.038	
Ant.D	Head	QPSK	DSI3	0	Right Touch	23230	782	25	0	24.00	22.21	0.020	0.030	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	23230	782	1	0	25.00	23.20	0.022	0.033	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	23230	782	25	0	24.00	22.21	0.016	0.024	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	1	0	25.00	23.20	0.100	0.151	31
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	23230	782	25	0	24.00	22.21	0.061	0.092	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	1	0	25.00	23.20	0.029	0.044	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	23230	782	25	0	24.00	22.21	0.022	0.033	
Ant.D	Hotspot	QPSK	DSI1	10	Top	23230	782	1	0	25.00	23.20	0.043	0.065	
Ant.D	Hotspot	QPSK	DSI1	10	Top	23230	782	25	0	24.00	22.21	0.036	0.054	
Ant.D	Hotspot	QPSK	DSI1	10	Right	23230	782	1	0	25.00	23.20	0.091	0.138	
Ant.D	Hotspot	QPSK	DSI1	10	Right	23230	782	25	0	24.00	22.21	0.069	0.104	

10.1.9. LTE Band 25 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	QPSK	DSI3	0	Left Touch	26140	1860.0	1	0	25.00	24.34	0.149	0.173	32
Ant.B	Head	QPSK	DSI3	0	Left Touch	26140	1860.0	50	24	24.00	23.39	0.107	0.123	
Ant.B	Head	QPSK	DSI3	0	Left Tilt	26140	1860.0	1	0	25.00	24.34	0.051	0.059	
Ant.B	Head	QPSK	DSI3	0	Left Tilt	26140	1860.0	50	24	24.00	23.39	0.052	0.060	
Ant.B	Head	QPSK	DSI3	0	Right Touch	26140	1860.0	1	0	25.00	24.34	0.130	0.151	
Ant.B	Head	QPSK	DSI3	0	Right Touch	26140	1860.0	50	24	24.00	23.39	0.102	0.117	
Ant.B	Head	QPSK	DSI3	0	Right Tilt	26140	1860.0	1	0	25.00	24.34	0.098	0.114	
Ant.B	Head	QPSK	DSI3	0	Right Tilt	26140	1860.0	50	24	24.00	23.39	0.070	0.081	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26140	1860.0	1	0	20.00	18.84	0.574	0.750	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26140	1860.0	50	24	20.00	18.91	0.582	0.748	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26140	1860.0	1	0	20.00	18.84	0.149	0.195	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26140	1860.0	50	24	20.00	18.91	0.158	0.203	
Ant.B	Hotspot	QPSK	DSI1	10	Left	26140	1860.0	1	0	20.00	18.84	0.083	0.108	
Ant.B	Hotspot	QPSK	DSI1	10	Left	26140	1860.0	50	24	20.00	18.91	0.084	0.108	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26140	1860.0	1	0	20.00	18.84	0.817	1.067	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26140	1860.0	50	24	20.00	18.91	0.832	1.069	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26365	1882.5	1	0	20.00	18.75	0.827	1.103	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26365	1882.5	50	24	20.00	18.84	0.858	1.121	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26590	1905.0	1	0	20.00	18.77	0.843	1.119	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26590	1905.0	50	24	20.00	18.84	0.902	1.178	33
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	26590	1905.0	100	0	20.00	18.83	0.889	1.164	
Ant.B	Hotspot	QPSK	DSI1	10	Right	26140	1860.0	1	0	20.00	18.84	0.161	0.210	
Ant.B	Hotspot	QPSK	DSI1	10	Right	26140	1860.0	50	24	20.00	18.91	0.169	0.217	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	QPSK	DSI3	0	Left Touch	26365	1882.5	1	49	23.50	22.32	0.473	0.621	
Ant.E	Head	QPSK	DSI3	0	Left Touch	26365	1882.5	50	24	23.50	22.39	0.483	0.624	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26140	1860.0	1	49	23.50	22.27	0.571	0.758	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26140	1860.0	50	24	23.50	22.38	0.581	0.752	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26365	1882.5	1	49	23.50	22.32	0.685	0.899	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26365	1882.5	50	24	23.50	22.39	0.697	0.900	34
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26365	1882.5	100	0	23.50	22.35	0.691	0.900	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26590	1905.0	1	49	23.50	22.26	0.566	0.753	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	26590	1905.0	50	24	23.50	22.36	0.568	0.738	
Ant.E	Head	QPSK	DSI3	0	Right Touch	26365	1882.5	1	49	23.50	22.32	0.548	0.719	
Ant.E	Head	QPSK	DSI3	0	Right Touch	26365	1882.5	50	24	23.50	22.39	0.549	0.709	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26140	1860.0	1	49	23.50	22.27	0.534	0.709	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26140	1860.0	50	24	23.50	22.38	0.554	0.717	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26365	1882.5	1	49	23.50	22.32	0.677	0.888	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26365	1882.5	50	24	23.50	22.39	0.678	0.875	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26365	1882.5	100	0	23.50	22.35	0.630	0.821	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26590	1905.0	1	49	23.50	22.26	0.563	0.749	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	26590	1905.0	50	24	23.50	22.36	0.574	0.746	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26365	1882.5	1	49	21.00	19.63	0.349	0.478	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26365	1882.5	50	24	21.00	19.71	0.342	0.460	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26365	1882.5	1	49	21.00	19.63	0.100	0.137	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26365	1882.5	50	24	21.00	19.71	0.099	0.133	
Ant.E	Hotspot	QPSK	DSI1	10	Top	26365	1882.5	1	49	21.00	19.63	0.485	0.665	
Ant.E	Hotspot	QPSK	DSI1	10	Top	26365	1882.5	50	24	21.00	19.71	0.499	0.672	35
Ant.E	Hotspot	QPSK	DSI1	10	Left	26365	1882.5	1	49	21.00	19.63	0.068	0.093	
Ant.E	Hotspot	QPSK	DSI1	10	Left	26365	1882.5	50	24	21.00	19.71	0.069	0.093	

10.1.10. LTE Band 26 (15MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	QPSK	DSI3	0	Left Touch	26865	831.5	1	0	25.50	24.17	0.135	0.183	
Ant.A	Head	QPSK	DSI3	0	Left Touch	26865	831.5	36	0	24.50	23.20	0.107	0.144	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	1	0	25.50	24.17	0.099	0.134	
Ant.A	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	36	0	24.50	23.20	0.072	0.097	
Ant.A	Head	QPSK	DSI3	0	Right Touch	26865	831.5	1	0	25.50	24.17	0.154	0.209	
Ant.A	Head	QPSK	DSI3	0	Right Touch	26865	831.5	36	0	24.50	23.20	0.123	0.166	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	26865	831.5	1	0	25.50	24.17	0.106	0.144	
Ant.A	Head	QPSK	DSI3	0	Right Tilt	26865	831.5	36	0	24.50	23.20	0.084	0.113	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	1	0	25.50	24.17	0.383	0.520	36
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	36	0	24.50	23.20	0.329	0.444	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	1	0	25.50	24.17	0.161	0.219	
Ant.A	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	36	0	24.50	23.20	0.132	0.178	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	26865	831.5	1	0	25.50	24.17	0.129	0.175	
Ant.A	Hotspot	QPSK	DSI1	10	Bottom	26865	831.5	36	0	24.50	23.20	0.108	0.146	
Ant.A	Hotspot	QPSK	DSI1	10	Right	26865	831.5	1	0	25.50	24.17	0.316	0.429	37
Ant.A	Hotspot	QPSK	DSI1	10	Right	26865	831.5	36	0	24.50	23.20	0.260	0.351	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	26865	831.5	1	0	25.50	24.17	0.132	0.179	
Ant.A+B	Head	QPSK	DSI3	0	Left Touch	26865	831.5	36	0	24.50	23.20	0.102	0.138	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	1	0	25.50	24.17	0.097	0.132	
Ant.A+B	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	36	0	24.50	23.20	0.076	0.103	
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	26865	831.5	1	0	25.50	24.17	0.154	0.209	38
Ant.A+B	Head	QPSK	DSI3	0	Right Touch	26865	831.5	36	0	24.50	23.20	0.134	0.181	
Ant.A+B	Head	QPSK	DSI3	0	Right Tilt	26865	831.5	1	0	25.50	24.17	0.100	0.136	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI3	0	Right Tilt	26865	831.5	36	0	24.50	23.20	0.088	0.119	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	1	0	25.50	24.17	0.337	0.458	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	36	0	24.50	23.20	0.281	0.379	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	1	0	25.50	24.17	0.156	0.212	
Ant.A+B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	36	0	24.50	23.20	0.134	0.181	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	26865	831.5	1	0	25.50	24.17	0.167	0.227	
Ant.A+B	Hotspot	QPSK	DSI1	10	Left	26865	831.5	36	0	24.50	23.20	0.135	0.182	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	26865	831.5	1	0	25.50	24.17	0.178	0.242	
Ant.A+B	Hotspot	QPSK	DSI1	10	Bottom	26865	831.5	36	0	24.50	23.20	0.149	0.201	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	26865	831.5	1	0	25.50	24.17	0.307	0.417	
Ant.A+B	Hotspot	QPSK	DSI1	10	Right	26865	831.5	36	0	24.50	23.20	0.261	0.352	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	QPSK	DSI3	0	Left Touch	26865	831.5	1	0	25.50	24.17	0.127	0.173	39
Ant.D	Head	QPSK	DSI3	0	Left Touch	26865	831.5	36	0	24.50	23.11	0.112	0.154	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	1	0	25.50	24.17	0.098	0.133	
Ant.D	Head	QPSK	DSI3	0	Left Tilt	26865	831.5	36	0	24.50	23.11	0.087	0.120	
Ant.D	Head	QPSK	DSI3	0	Right Touch	26865	831.5	1	0	25.50	24.17	0.074	0.101	
Ant.D	Head	QPSK	DSI3	0	Right Touch	26865	831.5	36	0	24.50	23.11	0.064	0.088	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	26865	831.5	1	0	25.50	24.17	0.069	0.094	
Ant.D	Head	QPSK	DSI3	0	Right Tilt	26865	831.5	36	0	24.50	23.11	0.060	0.083	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	1	0	25.50	24.17	0.219	0.297	40
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	26865	831.5	36	0	24.50	23.11	0.164	0.226	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	1	0	25.50	24.17	0.079	0.107	
Ant.D	Bodyworn & Hotspot	QPSK	DSI1	10	Front	26865	831.5	36	0	24.50	23.11	0.067	0.092	
Ant.D	Hotspot	QPSK	DSI1	10	Top	26865	831.5	1	0	25.50	24.17	0.110	0.149	
Ant.D	Hotspot	QPSK	DSI1	10	Top	26865	831.5	36	0	24.50	23.11	0.097	0.134	
Ant.D	Hotspot	QPSK	DSI1	10	Right	26865	831.5	1	0	25.50	24.17	0.176	0.239	
Ant.D	Hotspot	QPSK	DSI1	10	Right	26865	831.5	36	0	24.50	23.11	0.142	0.196	

10.1.11. LTE Band 41 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	QPSK	DS13	0	Left Touch	39750	2506.0	1	0	25.00	24.48	0.051	0.057	
Ant.B	Head	QPSK	DS13	0	Left Touch	39750	2506.0	50	0	24.00	23.49	0.041	0.046	
Ant.B	Head	QPSK	DS13	0	Left Tilt	39750	2506.0	1	0	25.00	24.48	0.037	0.042	
Ant.B	Head	QPSK	DS13	0	Left Tilt	39750	2506.0	50	0	24.00	23.49	0.026	0.029	
Ant.B	Head	QPSK	DS13	0	Right Touch	39750	2506.0	1	0	25.00	24.48	0.111	0.125	41
Ant.B	Head	QPSK	DS13	0	Right Touch	39750	2506.0	50	0	24.00	23.49	0.090	0.101	
Ant.B	Head	QPSK	DS13	0	Right Tilt	39750	2506.0	1	0	25.00	24.48	0.019	0.021	
Ant.B	Head	QPSK	DS13	0	Right Tilt	39750	2506.0	50	0	24.00	23.49	0.015	0.017	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	39750	2506.0	1	0	21.00	20.68	0.594	0.639	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	39750	2506.0	50	0	21.00	20.67	0.611	0.659	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	39750	2506.0	100	0	21.00	20.53	0.643	0.716	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	40185	2549.5	1	0	21.00	20.25	0.627	0.745	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	40185	2549.5	50	0	21.00	20.22	0.618	0.740	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	40620	2593.0	1	0	21.00	20.07	0.638	0.790	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	40620	2593.0	50	0	21.00	20.14	0.667	0.813	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	41055	2636.5	1	0	21.00	20.37	0.784	0.906	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	41055	2636.5	50	0	21.00	20.37	0.788	0.911	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	41490	2680.0	1	0	21.00	20.19	0.689	0.830	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Rear	41490	2680.0	50	0	21.00	20.25	0.706	0.839	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Front	39750	2506.0	1	0	21.00	20.68	0.111	0.119	
Ant.B	Bodywom & Hotspot	QPSK	DS11	10	Front	39750	2506.0	50	0	21.00	20.67	0.108	0.117	
Ant.B	Hotspot	QPSK	DS11	10	Left	39750	2506.0	1	0	21.00	20.68	0.055	0.059	
Ant.B	Hotspot	QPSK	DS11	10	Left	39750	2506.0	50	0	21.00	20.67	0.051	0.055	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	39750	2506.0	1	0	21.00	20.68	0.772	0.831	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	39750	2506.0	50	0	21.00	20.67	0.790	0.852	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	39750	2506.0	100	0	21.00	20.53	0.793	0.884	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	40185	2549.5	1	0	21.00	20.25	0.788	0.937	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	40185	2549.5	50	0	21.00	20.22	0.794	0.950	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	40620	2593.0	1	0	21.00	20.07	0.802	0.994	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	40620	2593.0	50	0	21.00	20.14	0.859	1.047	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	41055	2636.5	1	0	21.00	20.37	1.030	1.191	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	41055	2636.5	50	0	21.00	20.37	1.070	1.237	42
Ant.B	Hotspot	QPSK	DS11	10	Bottom	41490	2680.0	1	0	21.00	20.19	0.949	1.144	
Ant.B	Hotspot	QPSK	DS11	10	Bottom	41490	2680.0	50	0	21.00	20.25	0.997	1.185	
Ant.B	Hotspot	QPSK	DS11	10	Right	39750	2506.0	1	0	21.00	20.68	0.075	0.081	
Ant.B	Hotspot	QPSK	DS11	10	Right	39750	2506.0	50	0	21.00	20.67	0.080	0.086	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Product specific 10-g SAR	QPSK	DS11	0	Bottom	39750	2506.0	50	0	21.00	20.67	2.190	2.363	
Ant.B	Product specific 10-g SAR	QPSK	DS11	0	Bottom	40185	2549.5	50	0	21.00	20.22	2.140	2.561	
Ant.B	Product specific 10-g SAR	QPSK	DS11	0	Bottom	40620	2593.0	50	0	21.00	20.14	2.430	2.962	
Ant.B	Product specific 10-g SAR	QPSK	DS11	0	Bottom	41055	2636.5	50	0	21.00	20.37	2.580	2.983	
Ant.B	Product specific 10-g SAR	QPSK	DS11	0	Bottom	41490	2680.0	50	0	21.00	20.25	2.490	2.959	

LTE Band 41 (20MHz Bandwidth) (continued)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	QPSK	DSI3	0	Left Touch	39750	2506	1	49	25.50	24.65	0.308	0.375	
Ant.E	Head	QPSK	DSI3	0	Left Touch	39750	2506	50	50	24.50	23.69	0.232	0.280	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	39750	2506	1	49	25.50	24.65	0.431	0.524	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	39750	2506	50	50	24.50	23.69	0.325	0.392	
Ant.E	Head	QPSK	DSI3	0	Right Touch	39750	2506	1	49	25.50	24.65	0.255	0.310	
Ant.E	Head	QPSK	DSI3	0	Right Touch	39750	2506	50	50	24.50	23.69	0.192	0.231	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	39750	2506	1	49	25.50	24.65	0.362	0.440	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	39750	2506	50	50	24.50	23.69	0.265	0.319	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	39750	2506	1	49	22.00	20.91	0.236	0.303	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	39750	2506	50	50	22.00	20.92	0.244	0.313	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	39750	2506	1	49	22.00	20.91	0.077	0.099	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	39750	2506	50	50	22.00	20.92	0.072	0.092	
Ant.E	Hotspot	QPSK	DSI1	10	Top	39750	2506	1	49	22.00	20.91	0.353	0.454	
Ant.E	Hotspot	QPSK	DSI1	10	Top	39750	2506	50	50	22.00	20.92	0.333	0.427	
Ant.E	Hotspot	QPSK	DSI1	10	Left	39750	2506	1	49	22.00	20.91	0.060	0.077	
Ant.E	Hotspot	QPSK	DSI1	10	Left	39750	2506	50	50	22.00	20.92	0.065	0.084	

LTE Band 41 Power Class 2

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	QPSK	DSI3	0	Left Touch	39750	2506.0	1	0	26.50	25.94	0.032	0.036	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Bottom	41055	2636.5	50	0	22.60	22.02	0.813	0.929	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Product specific 10-g SAR	QPSK	DSI1	0	Bottom	41055	2636.5	50	0	22.60	22.02	2.710	3.097	43

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	QPSK	DSI3	0	Left Tilt	39750	2506.0	1	49	27.00	25.84	0.417	0.545	44
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Top	39750	2506.0	1	49	23.60	21.93	0.320	0.470	45

Note(s):

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

Reported SAR vs. Output power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle (%)	Tune-up Power (dBm)	Fram Avg. Power (mW)	Reported SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Fram Avg. Power (mW)	Reported SAR (W/kg)		
Ant.(B)	Head	43.3	26.5	193.4	0.036	63.3	25.0	200.2	0.125	0.121	-70.2
	Body-worn & Hotspot	43.3	22.6	78.8	0.929	63.3	21.0	79.7	1.237	1.223	-24.0
	Product specific 10-g	43.3	22.6	78.8	3.097	63.3	21.0	79.7	2.983	2.949	5.0

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle (%)	Tune-up Power (dBm)	Fram Avg. Power (mW)	Reported SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Fram Avg. Power (mW)	Reported SAR (W/kg)		
Ant.(B)	Head	43.3	27.0	217.0	0.545	63.3	25.5	224.6	0.524	0.506	7.6
	Body-worn & Hotspot	43.3	23.6	99.2	0.470	63.3	22.0	100.3	0.454	0.449	4.7

Note(s):

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

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 or 3.5 W/kg (1-g or 10-g respectively)

10.1.12. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	QPSK	DSI3	0	Left Touch	132072	1720	1	49	24.50	23.79	0.117	0.138	46
Ant.B	Head	QPSK	DSI3	0	Left Touch	132072	1720	50	24	23.50	22.89	0.089	0.102	
Ant.B	Head	QPSK	DSI3	0	Left Tilt	132072	1720	1	49	24.50	23.79	0.056	0.066	
Ant.B	Head	QPSK	DSI3	0	Left Tilt	132072	1720	50	24	23.50	22.89	0.044	0.050	
Ant.B	Head	QPSK	DSI3	0	Right Touch	132072	1720	1	49	24.50	23.79	0.078	0.092	
Ant.B	Head	QPSK	DSI3	0	Right Touch	132072	1720	50	24	23.50	22.89	0.063	0.072	
Ant.B	Head	QPSK	DSI3	0	Right Tilt	132072	1720	1	49	24.50	23.79	0.077	0.091	
Ant.B	Head	QPSK	DSI3	0	Right Tilt	132072	1720	50	24	23.50	22.89	0.057	0.066	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	132072	1720	1	49	20.00	19.15	0.579	0.704	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	132072	1720	50	24	20.00	19.19	0.570	0.687	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	132072	1720	1	49	20.00	19.15	0.133	0.162	
Ant.B	Bodyworn & Hotspot	QPSK	DSI1	10	Front	132072	1720	50	24	20.00	19.19	0.168	0.202	
Ant.B	Hotspot	QPSK	DSI1	10	Left	132072	1720	1	49	20.00	19.15	0.072	0.087	
Ant.B	Hotspot	QPSK	DSI1	10	Left	132072	1720	50	24	20.00	19.19	0.072	0.087	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132072	1720	1	49	20.00	19.15	0.682	0.829	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132072	1720	50	24	20.00	19.19	0.676	0.815	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132072	1720	100	0	20.00	19.19	0.676	0.815	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132322	1745	1	49	20.00	19.00	0.721	0.908	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132322	1745	50	24	20.00	19.04	0.735	0.917	
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132572	1770	1	49	20.00	19.02	0.836	1.048	47
Ant.B	Hotspot	QPSK	DSI1	10	Bottom	132572	1770	50	24	20.00	19.08	0.824	1.018	
Ant.B	Hotspot	QPSK	DSI1	10	Right	132072	1720	1	49	20.00	19.15	0.118	0.144	
Ant.B	Hotspot	QPSK	DSI1	10	Right	132072	1720	50	24	20.00	19.19	0.099	0.119	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	QPSK	DSI3	0	Left Touch	132072	1720	1	0	22.50	21.44	0.259	0.331	
Ant.E	Head	QPSK	DSI3	0	Left Touch	132072	1720	50	0	22.50	21.44	0.271	0.346	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	132072	1720	1	0	22.50	21.44	0.392	0.500	
Ant.E	Head	QPSK	DSI3	0	Left Tilt	132072	1720	50	0	22.50	21.44	0.409	0.522	
Ant.E	Head	QPSK	DSI3	0	Right Touch	132072	1720	1	0	22.50	21.44	0.330	0.421	
Ant.E	Head	QPSK	DSI3	0	Right Touch	132072	1720	50	0	22.50	21.44	0.346	0.442	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	132072	1720	1	0	22.50	21.44	0.411	0.525	
Ant.E	Head	QPSK	DSI3	0	Right Tilt	132072	1720	50	0	22.50	21.44	0.420	0.536	48
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	132072	1720	1	0	21.00	19.90	0.382	0.492	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Rear	132072	1720	50	0	21.00	19.92	0.395	0.507	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	132072	1720	1	0	21.00	19.90	0.084	0.108	
Ant.E	Bodyworn & Hotspot	QPSK	DSI1	10	Front	132072	1720	50	0	21.00	19.92	0.089	0.114	
Ant.E	Hotspot	QPSK	DSI1	10	Top	132072	1720	1	0	21.00	19.90	0.439	0.566	
Ant.E	Hotspot	QPSK	DSI1	10	Top	132072	1720	50	0	21.00	19.92	0.462	0.592	49
Ant.E	Hotspot	QPSK	DSI1	10	Left	132072	1720	1	0	21.00	19.90	0.066	0.085	
Ant.E	Hotspot	QPSK	DSI1	10	Left	132072	1720	50	0	21.00	19.92	0.069	0.088	

10.1.13. NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	1	52	25.00	24.11	0.125	0.153	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	50	28	25.00	23.88	0.131	0.170	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	1	52	25.00	24.11	0.092	0.113	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	50	28	25.00	23.88	0.097	0.126	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	167300	836.5	1	52	25.00	24.11	0.144	0.177	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	167300	836.5	50	28	25.00	23.88	0.147	0.190	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	1	52	25.00	24.11	0.094	0.115	
Ant.A	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	50	28	25.00	23.88	0.096	0.124	
Ant.A	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	167300	836.5	1	52	25.00	24.11	0.369	0.453	
Ant.A	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	167300	836.5	50	28	25.00	23.88	0.385	0.498	50
Ant.A	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	167300	836.5	1	52	25.00	24.11	0.146	0.179	
Ant.A	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	167300	836.5	50	28	25.00	23.88	0.150	0.194	
Ant.A	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	167300	836.5	1	52	25.00	24.11	0.115	0.141	
Ant.A	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	167300	836.5	50	28	25.00	23.88	0.122	0.158	
Ant.A	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	167300	836.5	1	52	25.00	24.11	0.246	0.302	
Ant.A	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	167300	836.5	50	28	25.00	23.88	0.254	0.329	
Ant.A	Head	CP-OFDM QPSK	DSI3	0	Right Touch	167300	836.5	1	1	23.50	22.60	0.101	0.124	
Ant.A	Bodyworn & Hotspot	CP-OFDM QPSK	DSI1	10	Rear	167300	836.5	1	1	23.50	22.60	0.279	0.343	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	1	52	25.00	24.11	0.142	0.174	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	50	28	25.00	23.88	0.140	0.181	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	1	52	25.00	24.11	0.101	0.124	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	50	28	25.00	23.88	0.107	0.138	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	167300	836.5	1	52	25.00	24.11	0.144	0.177	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	167300	836.5	50	28	25.00	23.88	0.157	0.203	51
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	1	52	25.00	24.11	0.103	0.126	
Ant.A+B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	50	28	25.00	23.88	0.096	0.124	
Ant.A+B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	167300	836.5	1	52	25.00	24.11	0.314	0.385	
Ant.A+B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	167300	836.5	50	28	25.00	23.88	0.311	0.402	
Ant.A+B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	167300	836.5	1	52	25.00	24.11	0.150	0.184	
Ant.A+B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	167300	836.5	50	28	25.00	23.88	0.128	0.166	
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	167300	836.5	1	52	25.00	24.11	0.138	0.169	
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	167300	836.5	50	28	25.00	23.88	0.123	0.159	
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	167300	836.5	1	52	25.00	24.11	0.121	0.149	
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	167300	836.5	50	28	25.00	23.88	0.151	0.195	
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	167300	836.5	1	52	25.00	24.11	0.269	0.330	52
Ant.A+B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	167300	836.5	50	28	25.00	23.88	0.245	0.317	
Ant.A+B	Head	CP-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	1	1	23.50	22.60	0.104	0.128	
Ant.A+B	Bodyworn & Hotspot	CP-OFDM QPSK	DSI1	10	Rear	167300	836.5	1	1	23.50	22.60	0.266	0.327	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	167300	836.5	1	1	25.00	23.76	0.116	0.154	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	167300	836.5	50	28	25.00	23.58	0.129	0.179	53
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	1	1	25.00	23.76	0.092	0.122	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	167300	836.5	50	28	25.00	23.58	0.099	0.137	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	167300	836.5	1	1	25.00	23.76	0.057	0.076	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	167300	836.5	50	28	25.00	23.58	0.062	0.086	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	1	1	25.00	23.76	0.054	0.072	
Ant.D	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	167300	836.5	50	28	25.00	23.58	0.056	0.078	
Ant.D	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	167300	836.5	1	1	25.00	23.76	0.164	0.218	
Ant.D	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	167300	836.5	50	28	25.00	23.58	0.198	0.275	54
Ant.D	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	167300	836.5	1	1	25.00	23.76	0.062	0.082	
Ant.D	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	167300	836.5	50	28	25.00	23.58	0.061	0.085	
Ant.D	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	167300	836.5	1	1	25.00	23.76	0.093	0.124	
Ant.D	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	167300	836.5	50	28	25.00	23.58	0.102	0.141	
Ant.D	Hotspot	DFT-s OFDM QPSK	DSI1	10	Right	167300	836.5	1	1	25.00	23.76	0.147	0.196	
Ant.D	Hotspot	DFT-s OFDM QPSK	DSI1	10	Right	167300	836.5	50	28	25.00	23.58	0.154	0.214	
Ant.D	Head	CP-OFDM QPSK	DSI3	0	Left Touch	167300	836.5	1	1	23.50	22.27	0.080	0.106	
Ant.D	Bodyworn & Hotspot	CP-OFDM QPSK	DSI1	10	Rear	167300	836.5	1	DBELS	23.50	22.27	0.109	0.145	

Note(s):
 CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.1.14. NR Band n25 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	376500	1882.5	1	1	24.00	23.06	0.094	0.117	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	376500	1882.5	108	54	24.00	22.83	0.088	0.115	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	376500	1882.5	1	1	24.00	23.06	0.081	0.101	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	376500	1882.5	108	54	24.00	22.83	0.066	0.086	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	376500	1882.5	1	1	24.00	23.06	0.112	0.139	55
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	376500	1882.5	108	54	24.00	22.83	0.102	0.134	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	376500	1882.5	1	1	24.00	23.06	0.087	0.108	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	376500	1882.5	108	54	24.00	22.83	0.075	0.098	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	376500	1882.5	1	1	20.00	19.23	0.534	0.638	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	376500	1882.5	108	54	20.00	19.07	0.518	0.642	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	376500	1882.5	1	1	20.00	19.23	0.160	0.191	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	376500	1882.5	108	54	20.00	19.07	0.158	0.196	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	376500	1882.5	1	1	20.00	19.23	0.074	0.088	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	376500	1882.5	108	54	20.00	19.07	0.067	0.083	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	376500	1882.5	1	1	20.00	19.23	0.760	0.907	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	376500	1882.5	108	54	20.00	19.07	0.758	0.939	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	376500	1882.5	216	0	20.00	19.13	0.800	0.977	56
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	376500	1882.5	1	1	20.00	19.23	0.176	0.210	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	376500	1882.5	108	54	20.00	19.07	0.177	0.219	
Ant.B	Head	CP-OFDM QPSK	DSI3	0	Right Touch	376500	1882.5	1	1	22.50	21.58	0.063	0.078	
Ant.B	Hotspot	CP-OFDM QPSK	DSI1	10	Bottom	376500	1882.5	1	1	20.00	19.21	0.637	0.764	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	376500	1882.5	1	1	23.50	22.43	0.421	0.539	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	376500	1882.5	108	54	23.50	22.40	0.433	0.558	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	376500	1882.5	1	1	23.50	22.43	0.535	0.684	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	376500	1882.5	108	54	23.50	22.40	0.521	0.671	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	376500	1882.5	1	1	23.50	22.43	0.499	0.638	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	376500	1882.5	108	54	23.50	22.40	0.475	0.612	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	376500	1882.5	1	1	23.50	22.43	0.706	0.903	57
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	376500	1882.5	108	54	23.50	22.40	0.680	0.876	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	376500	1882.5	216	0	22.50	22.11	0.643	0.703	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	376500	1882.5	1	1	21.00	19.87	0.285	0.370	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	376500	1882.5	108	54	21.00	19.78	0.272	0.360	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	376500	1882.5	1	1	21.00	19.87	0.085	0.110	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	376500	1882.5	108	54	21.00	19.78	0.082	0.109	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	376500	1882.5	1	1	21.00	19.87	0.443	0.575	58
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	376500	1882.5	108	54	21.00	19.78	0.417	0.552	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Left	376500	1882.5	1	1	21.00	19.87	0.066	0.086	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Left	376500	1882.5	108	54	21.00	19.78	0.063	0.083	
Ant.E	Head	CP-OFDM QPSK	DSI3	0	Right tilt	376500	1882.5	1	1	22.50	21.65	0.585	0.711	
Ant.E	Hotspot	CP-OFDM QPSK	DSI1	10	Top	376500	1882.5	1	1	21.00	19.92	0.427	0.548	

Note(s):
 CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.1.15. NR Band n66 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	349000	1745	1	1	24.50	23.97	0.110	0.124	59
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	349000	1745	108	54	24.50	23.85	0.091	0.106	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	349000	1745	1	1	24.50	23.97	0.088	0.099	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	349000	1745	108	54	24.50	23.85	0.076	0.088	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	349000	1745	1	1	24.50	23.97	0.100	0.113	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	349000	1745	108	54	24.50	23.85	0.076	0.088	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	349000	1745	1	1	24.50	23.97	0.101	0.114	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	349000	1745	108	54	24.50	23.85	0.083	0.096	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	349000	1745	1	1	20.00	19.50	0.500	0.561	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	349000	1745	108	54	20.00	19.37	0.481	0.556	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	349000	1745	1	1	20.00	19.50	0.158	0.177	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	349000	1745	108	54	20.00	19.37	0.155	0.179	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	349000	1745	1	1	20.00	19.50	0.065	0.073	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	349000	1745	108	54	20.00	19.37	0.059	0.068	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	349000	1745	1	1	20.00	19.50	0.675	0.757	60
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	349000	1745	108	54	20.00	19.37	0.630	0.728	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	349000	1745	1	1	20.00	19.50	0.065	0.073	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	349000	1745	108	54	20.00	19.37	0.043	0.050	
Ant.B	Head	CP-OFDM QPSK	DSI3	0	Left Touch	349000	1745	1	1	23.00	22.61	0.077	0.084	
Ant.B	Hotspot	CP-OFDM QPSK	DSI1	10	Bottom	349000	1745	1	1	20.00	19.66	0.630	0.681	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	349000	1745	1	1	22.50	21.57	0.289	0.358	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Touch	349000	1745	108	54	22.50	21.36	0.305	0.397	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	349000	1745	1	1	22.50	21.57	0.434	0.538	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Left Tilt	349000	1745	108	54	22.50	21.36	0.477	0.620	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	349000	1745	1	1	22.50	21.57	0.330	0.409	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Touch	349000	1745	108	54	22.50	21.36	0.334	0.434	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	349000	1745	1	1	22.50	21.57	0.524	0.649	
Ant.E	Head	DFT-s OFDM QPSK	DSI3	0	Right Tilt	349000	1745	108	54	22.50	21.36	0.526	0.684	61
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	349000	1745	1	1	21.00	19.84	0.409	0.534	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Rear	349000	1745	108	54	21.00	19.71	0.415	0.559	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	349000	1745	1	1	21.00	19.84	0.111	0.145	
Ant.E	Bodyworn & Hotspot	DFT-s OFDM QPSK	DSI1	10	Front	349000	1745	108	54	21.00	19.71	0.121	0.163	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	349000	1745	1	1	21.00	19.84	0.473	0.618	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Top	349000	1745	108	54	21.00	19.71	0.464	0.624	62
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Left	349000	1745	1	1	21.00	19.84	0.073	0.095	
Ant.E	Hotspot	DFT-s OFDM QPSK	DSI1	10	Left	349000	1745	108	54	21.00	19.71	0.074	0.100	
Ant.E	Head	CP-OFDM QPSK	DSI3	0	Right tilt	349000	1745	1	1	22.50	21.63	0.480	0.586	
Ant.E	Hotspot	CP-OFDM QPSK	DSI1	10	Top	349000	1745	1	1	21.00	19.90	0.463	0.596	

Note(s):

CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.1.16. NR Band n41 (100MHz Bandwidth)**(Voice/data/SRS0)**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Left Touch	518598	2592.99	1	1	23.00	22.43	0.504	0.575	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Left Touch	518598	2592.99	135	0	23.00	22.15	0.470	0.572	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Left Tilt	518598	2592.99	1	1	23.00	22.43	0.640	0.730	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Left Tilt	518598	2592.99	135	0	23.00	22.15	0.688	0.837	63
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Right Touch	518598	2592.99	1	1	23.00	22.43	0.369	0.421	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Right Touch	518598	2592.99	135	0	23.00	22.15	0.432	0.525	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Right Tilt	518598	2592.99	1	1	23.00	22.43	0.480	0.547	
Ant.E	Head	DFT-s-OFDM QPSK	DS13	0	Right Tilt	518598	2592.99	135	0	23.00	22.15	0.531	0.646	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DS11	10	Rear	518598	2592.99	1	1	19.50	19.28	0.387	0.407	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DS11	10	Rear	518598	2592.99	135	0	19.50	19.13	0.415	0.452	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DS11	10	Front	518598	2592.99	1	1	19.50	19.28	0.117	0.123	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DS11	10	Front	518598	2592.99	135	0	19.50	19.13	0.107	0.117	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DS11	10	Top	518598	2592.99	1	1	19.50	19.28	0.458	0.482	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DS11	10	Top	518598	2592.99	135	0	19.50	19.13	0.463	0.504	64
Ant.E	Hotspot	DFT-s-OFDM QPSK	DS11	10	Left	518598	2592.99	1	1	19.50	19.28	0.079	0.083	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DS11	10	Left	518598	2592.99	135	0	19.50	19.13	0.083	0.090	
Ant.E	Head	CP-OFDM QPSK	DS13	0	Left Tilt	518598	2592.99	1	1	23.00	22.49	0.416	0.468	
Ant.E	Hotspot	CP-OFDM QPSK	DS11	10	Top	518598	2592.99	1	1	19.50	19.47	0.365	0.368	

(SRS1)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	CW	DS13	0	Left Tilt	518598	2592.99	23.00	22.09	0.622	0.767	65
Ant.E	Hotspot	CW	DS11	10	Top	518598	2592.99	19.50	19.43	0.387	0.393	66

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n41 tested using FTM mode.
3. SRS1 SAR test performed at worst configuration at Voice/data/SRS0 test result of each RF exposure conditions.

NR Band n41 (100MHZ Bandwidth) (Continued)
(Voice/data/SRS0)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	518598	2592.99	1	1	25.00	24.43	0.060	0.068	67
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	518598	2592.99	135	69	25.00	23.95	0.040	0.051	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	518598	2592.99	1	1	25.00	24.43	0.034	0.039	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	518598	2592.99	135	69	25.00	23.95	0.021	0.027	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	518598	2592.99	1	1	25.00	24.43	0.052	0.059	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	518598	2592.99	135	69	25.00	23.95	0.035	0.045	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	518598	2592.99	1	1	25.00	24.43	0.040	0.046	
Ant.B	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	518598	2592.99	135	69	25.00	23.95	0.019	0.024	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	518598	2592.99	1	1	19.00	18.46	0.674	0.763	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	518598	2592.99	135	69	19.00	18.29	0.674	0.794	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	518598	2592.99	1	1	19.00	18.46	0.122	0.138	
Ant.B	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	518598	2592.99	135	69	19.00	18.29	0.113	0.133	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	518598	2592.99	1	1	19.00	18.46	0.093	0.105	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	518598	2592.99	135	69	19.00	18.29	0.069	0.081	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	518598	2592.99	1	1	19.00	18.46	0.904	1.024	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	518598	2592.99	135	69	19.00	18.29	0.956	1.126	68
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Bottom	518598	2592.99	270	0	19.00	18.34	0.831	0.967	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	518598	2592.99	1	1	19.00	18.46	0.109	0.123	
Ant.B	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Right	518598	2592.99	135	69	19.00	18.29	0.075	0.088	
Ant.B	Head	CP-OFDM QPSK	DSI3	0	Left Touch	518598	2592.99	1	1	23.50	22.98	0.041	0.046	
Ant.B	Hotspot	CP-OFDM QPSK	DSI1	10	Bottom	518598	2592.99	1	1	19.00	18.42	0.870	0.994	

(SRS1)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.B	Head	CW	DSI3	0	Left Touch	518598	2592.99	25.00	24.27	0.019	0.022	69
Ant.B	Hotspot	CW	DSI1	0	Bottom	518598	2592.99	19.00	18.12	0.738	0.904	70

(SRS2/SRS3)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.C	Head	CW	DSI3	0	Left Touch	518598	2592.99	13.00	12.54	0.029	0.032	
Ant.C	Head	CW	DSI3	0	Left Tilt	518598	2592.99	13.00	12.54	0.016	0.018	
Ant.C	Head	CW	DSI3	0	Right Touch	518598	2592.99	13.00	12.54	0.007	0.008	
Ant.C	Head	CW	DSI3	0	Right Tilt	518598	2592.99	13.00	12.54	0.016	0.018	
Ant.C	Bodyworn & Hotspot	CW	DSI1	10	Rear	518598	2592.99	13.00	12.54	0.093	0.103	
Ant.C	Bodyworn & Hotspot	CW	DSI1	10	Front	518598	2592.99	13.00	12.54	<0.001	<0.001	
Ant.C	Hotspot	CW	DSI1	10	Left	518598	2592.99	13.00	12.54	<0.001	<0.001	
Ant.C	Hotspot	CW	DSI1	10	Bottom	518598	2592.99	13.00	12.54	<0.001	<0.001	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.G	Head	CW	DSI3	0	Left Touch	518598	2592.99	13.00	12.39	<0.001	<0.001	
Ant.G	Head	CW	DSI3	0	Left Tilt	518598	2592.99	13.00	12.39	<0.001	<0.001	
Ant.G	Head	CW	DSI3	0	Right Touch	518598	2592.99	13.00	12.39	<0.001	<0.001	
Ant.G	Head	CW	DSI3	0	Right Tilt	518598	2592.99	13.00	12.39	<0.001	<0.001	
Ant.G	Bodyworn & Hotspot	CW	DSI1	10	Rear	518598	2592.99	13.00	12.39	0.047	0.054	
Ant.G	Bodyworn & Hotspot	CW	DSI1	10	Front	518598	2592.99	13.00	12.39	<0.001	<0.001	
Ant.G	Hotspot	CW	DSI1	10	Right	518598	2592.99	13.00	12.39	0.014	0.016	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n41 tested using FTM mode.

3. SRS1 SAR test performed at worst configuration at Voice/data/SRS0 test result of each RF exposure conditions.

10.1.17. NR Band n77 (100MHz Bandwidth)

(Voice/data/SRS0)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	662000	3930.00	1	1	19.00	18.87	0.329	0.339	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Touch	662000	3930.00	135	69	19.00	18.87	0.288	0.297	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	650000	3750.00	1	1	19.00	18.37	0.341	0.394	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	650000	3750.00	135	69	19.00	18.33	0.319	0.372	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	662000	3930.00	1	1	19.00	18.87	0.430	0.443	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Left Tilt	662000	3930.00	135	69	19.00	18.87	0.414	0.427	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	650000	3750.00	1	1	19.00	18.37	0.493	0.570	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	650000	3750.00	135	69	19.00	18.33	0.467	0.545	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	662000	3930.00	1	1	19.00	18.87	0.611	0.630	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Touch	662000	3930.00	135	69	19.00	18.87	0.608	0.626	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	633334	3500.01	1	1	19.00	18.98	0.552	0.555	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	633334	3500.01	135	69	19.00	18.54	0.537	0.597	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	650000	3750.00	1	1	19.00	18.37	0.653	0.755	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	650000	3750.00	135	69	19.00	18.33	0.639	0.746	
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	662000	3930.00	1	1	19.00	18.87	0.749	0.772	71
Ant.E	Head	DFT-s-OFDM QPSK	DSI3	0	Right Tilt	662000	3930.00	135	69	19.00	18.87	0.724	0.746	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	650000	3750.00	1	1	18.50	18.13	0.346	0.377	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	662000	3930.00	1	1	18.50	18.39	0.417	0.428	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Rear	662000	3930.00	135	69	18.50	18.32	0.331	0.345	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	662000	3930.00	1	1	18.50	18.39	0.113	0.116	
Ant.E	Bodyworn & Hotspot	DFT-s-OFDM QPSK	DSI1	10	Front	662000	3930.00	135	69	18.50	18.32	0.111	0.116	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	633334	3500.01	1	1	18.50	18.47	0.324	0.326	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	633334	3500.01	135	69	18.50	18.05	0.278	0.308	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	650000	3750.00	1	1	18.50	18.13	0.449	0.489	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	650000	3750.00	135	69	18.50	18.22	0.464	0.495	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	662000	3930.00	1	1	18.50	18.39	0.522	0.535	72
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Top	662000	3930.00	135	69	18.50	18.32	0.479	0.499	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	662000	3930.00	1	1	18.50	18.39	0.094	0.096	
Ant.E	Hotspot	DFT-s-OFDM QPSK	DSI1	10	Left	662000	3930.00	135	69	18.50	18.32	0.078	0.081	
Ant.E	Head	CP-OFDM QPSK	DSI3	0	Right Tilt	662000	3930.00	1	1	19.00	18.89	0.696	0.714	
Ant.E	Hotspot	CP-OFDM QPSK	DSI1	10	Top	662000	3930.00	1	1	18.50	18.39	0.380	0.390	

Note(s):

1. NR Band-Dod n77 are tested at worst configuration of NR Band n77 band.
2. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.
3. NR Band n77 tested using FTM mode.

NR Band n77 (100MHZ Bandwidth) (Continued)
(SRS1/SRS2/SRS3)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.C	Head	CW	DSI3	0	Left Touch	633334	3500.01	15.00	13.69	<0.001	<0.001	
Ant.C	Head	CW	DSI3	0	Left Touch	650000	3750.00	15.00	14.69	0.002	0.002	
Ant.C	Head	CW	DSI3	0	Left Tilt	650000	3750.00	15.00	14.69	<0.001	<0.001	
Ant.C	Head	CW	DSI3	0	Right Touch	650000	3750.00	15.00	14.69	<0.001	<0.001	
Ant.C	Head	CW	DSI3	0	Right Tilt	650000	3750.00	15.00	14.69	<0.001	<0.001	
Ant.C	Bodyworn & Hotspot	CW	DSI1	10	Rear	650000	3750.00	15.00	14.69	0.050	0.054	
Ant.C	Bodyworn & Hotspot	CW	DSI1	10	Front	650000	3750.00	15.00	14.69	0.016	0.017	
Ant.C	Hotspot	CW	DSI1	10	Left	650000	3750.00	15.00	14.69	<0.001	<0.001	
Ant.C	Hotspot	CW	DSI1	10	Bottom	633334	3500.01	15.00	13.69	0.055	0.074	
Ant.C	Hotspot	CW	DSI1	10	Bottom	650000	3750.00	15.00	14.69	0.065	0.070	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.F	Head	CW	DSI3	0	Left Touch	633334	3500.01	15.00	14.61	0.150	0.164	
Ant.F	Head	CW	DSI3	0	Left Touch	662000	3930.00	15.00	14.75	0.047	0.050	
Ant.F	Head	CW	DSI3	0	Left Tilt	633334	3500.01	15.00	14.61	0.193	0.211	
Ant.F	Head	CW	DSI3	0	Left Tilt	662000	3930.00	15.00	14.75	0.061	0.065	
Ant.F	Head	CW	DSI3	0	Right Touch	633334	3500.01	15.00	14.61	0.128	0.140	
Ant.F	Head	CW	DSI3	0	Right Touch	662000	3930.00	15.00	14.75	0.042	0.044	
Ant.F	Head	CW	DSI3	0	Right Tilt	633334	3500.01	15.00	14.61	0.165	0.181	73
Ant.F	Head	CW	DSI3	0	Right Tilt	662000	3930.00	15.00	14.75	0.055	0.058	
Ant.F	Bodyworn & Hotspot	CW	DSI1	10	Rear	633334	3500.01	15.00	14.61	0.178	0.195	
Ant.F	Bodyworn & Hotspot	CW	DSI1	10	Rear	662000	3930.00	15.00	14.75	0.213	0.226	74
Ant.F	Bodyworn & Hotspot	CW	DSI1	10	Front	662000	3930.00	15.00	14.75	0.012	0.013	
Ant.F	Hotspot	CW	DSI1	10	Top	662000	3930.00	15.00	14.75	0.177	0.187	
Ant.F	Hotspot	CW	DSI1	10	Left	662000	3930.00	15.00	14.75	<0.001	<0.001	
Ant.F	Hotspot	CW	DSI1	10	Right	662000	3930.00	15.00	14.75	0.021	0.022	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.A	Head	CW	DSI3	0	Left Touch	650000	3750.00	15.00	14.41	<0.001	<0.001	
Ant.A	Head	CW	DSI3	0	Left Tilt	633334	3500.01	15.00	14.87	<0.001	<0.001	
Ant.A	Head	CW	DSI3	0	Left Tilt	650000	3750.00	15.00	14.41	0.004	0.005	
Ant.A	Head	CW	DSI3	0	Right Touch	650000	3750.00	15.00	14.41	<0.001	<0.001	
Ant.A	Head	CW	DSI3	0	Right Tilt	650000	3750.00	15.00	14.41	<0.001	<0.001	
Ant.A	Bodyworn & Hotspot	CW	DSI1	10	Rear	633334	3500.01	15.00	14.87	0.053	0.055	
Ant.A	Bodyworn & Hotspot	CW	DSI1	10	Rear	650000	3750.00	15.00	14.41	0.030	0.034	
Ant.A	Bodyworn & Hotspot	CW	DSI1	10	Front	650000	3750.00	15.00	14.41	<0.001	<0.001	
Ant.A	Hotspot	CW	DSI1	10	Bottom	650000	3750.00	15.00	14.41	0.025	0.029	
Ant.A	Hotspot	CW	DSI1	10	Right	650000	3750.00	15.00	14.41	<0.001	<0.001	

Note(s):

1. NR Band-Dod n77 are tested at worst configuration of NR Band n77 band.
2. NR Band n77 tested using FTM mode.

10.1.18. Wi-Fi (DTS Band)**DTS SISO Ant.G SAR results**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.G	Head	802.11b 1Mbps	DSI3	0	Left Touch	1	2412	0.136	98.8	18.00	17.52	0.116	0.131	1	
Ant.G	Head	802.11b 1Mbps	DSI3	0	Left Tilt	1	2412	0.040	98.8	18.00	17.52				
Ant.G	Head	802.11b 1Mbps	DSI3	0	Right Touch	1	2412	0.078	98.8	18.00	17.52				
Ant.G	Head	802.11b 1Mbps	DSI3	0	Right Tilt	1	2412	0.018	98.8	18.00	17.52				
Ant.G	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Rear	1	2412	0.198	98.8	18.00	17.52	0.164	0.185		
Ant.G	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Front	1	2412	0.030	98.8	18.00	17.52	0.023	0.026	4	
Ant.G	Hotspot	802.11b 1Mbps	DSI1	10	Right	1	2412	0.120	98.8	18.00	17.52	0.099	0.112	4	

DTS SISO Ant.F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.F	Head	802.11b 1Mbps	DSI3	0	Left Touch	1	2412	0.287	98.8	18.00	16.93				
Ant.F	Head	802.11b 1Mbps	DSI3	0	Left Tilt	1	2412	0.394	98.8	18.00	16.93				
Ant.F	Head	802.11b 1Mbps	DSI3	0	Right Touch	1	2412	0.264	98.8	18.00	16.93				
Ant.F	Head	802.11b 1Mbps	DSI3	0	Right Tilt	1	2412	0.399	98.8	18.00	16.93	0.306	0.396	1	75
Ant.F	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Rear	1	2412	0.479	98.8	18.00	16.93	0.375	0.486		
Ant.F	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Front	1	2412	0.090	98.8	18.00	16.93	0.072	0.093		
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Top	1	2412	0.511	98.8	18.00	16.93	0.407	0.527	4	76
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Left	1	2412	0.010	98.8	18.00	16.93	0.002	0.003		
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Right	1	2412	0.137	98.8	18.00	16.93	0.113	0.146		

DTS MIMO Ant.G+F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.G	Head	802.11b 1Mbps	DSI3	0	Left Touch	1	2412	0.281	98.8	18.00	17.43	0.222	0.256	4	
Ant.G	Head	802.11b 1Mbps	DSI3	0	Left Tilt	1	2412	0.336	98.8	18.00	17.43				
Ant.G	Head	802.11b 1Mbps	DSI3	0	Right Touch	1	2412	0.266	98.8	18.00	17.43				
Ant.G	Head	802.11b 1Mbps	DSI3	0	Right Tilt	1	2412	0.247	98.8	18.00	17.43				
Ant.G	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Rear	1	2412	0.454	98.8	18.00	17.43				
Ant.G	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Front	1	2412	0.093	98.8	18.00	17.43				
Ant.G	Hotspot	802.11b 1Mbps	DSI1	10	Top	1	2412	0.446	98.8	18.00	17.43				
Ant.G	Hotspot	802.11b 1Mbps	DSI1	10	Right	1	2412	0.044	98.8	18.00	17.43				
Ant.G	Hotspot	802.11b 1Mbps	DSI1	10	Left	1	2412	0.074	98.8	18.00	17.43	0.059	0.068		
Ant.F	Head	802.11b 1Mbps	DSI3	0	Left Touch	1	2412	0.281	98.8	18.00	16.82				
Ant.F	Head	802.11b 1Mbps	DSI3	0	Left Tilt	1	2412	0.336	98.8	18.00	16.82	0.252	0.335		77
Ant.F	Head	802.11b 1Mbps	DSI3	0	Right Touch	1	2412	0.266	98.8	18.00	16.82				
Ant.F	Head	802.11b 1Mbps	DSI3	0	Right Tilt	1	2412	0.247	98.8	18.00	16.82				
Ant.F	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Rear	1	2412	0.454	98.8	18.00	16.82	0.353	0.469		78
Ant.F	Bodyworn & Hotspot	802.11b 1Mbps	DSI1	10	Front	1	2412	0.093	98.8	18.00	16.82	0.073	0.097		
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Top	1	2412	0.446	98.8	18.00	16.82	0.340	0.452	2	
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Left	1	2412	0.044	98.8	18.00	16.82	0.027	0.036	4	
Ant.F	Hotspot	802.11b 1Mbps	DSI1	10	Right	1	2412	0.074	98.8	18.00	16.82				

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
- Tested all positions of Bodyworn & Hotspot exposure condition without applying initial SAR.

10.1.19. Wi-Fi (U-NII Bands)

U-NII 2A SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11n (HT40)	DS13	0	Left Touch	54	5270	0.773	98.2	18.00	16.91	0.552	0.723				79
Ant.G	Head	802.11n (HT40)	DS13	0	Left Tilt	54	5270	0.136	98.2	18.00	16.91	0.086	0.113				
Ant.G	Head	802.11n (HT40)	DS13	0	Right Touch	54	5270	0.592	98.2	18.00	16.91	0.396	0.518				
Ant.G	Head	802.11n (HT40)	DS13	0	Right Tilt	54	5270	0.096	98.2	18.00	16.91	0.053	0.069				
Ant.G	Body worn	802.11n (HT40)	DS11	10	Rear	54	5270	0.119	98.2	18.00	16.91	0.076	0.099				1
Ant.G	Body worn	802.11n (HT40)	DS11	10	Front	54	5270	0.105	98.2	18.00	16.91						
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Rear	54	5270	1.340	98.2	18.00	16.91			0.295	0.386		2
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Front	54	5270	0.657	98.2	18.00	16.91						
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Right	54	5270	3.930	98.2	18.00	16.91			0.996	1.304		80

U-NII 2A SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Head	802.11n (HT40)	DS13	0	Left Touch	54	5270	0.205	98.2	18.00	17.68	0.190	0.208				
Ant.D	Head	802.11n (HT40)	DS13	0	Left Tilt	54	5270	0.133	98.2	18.00	17.68	0.102	0.112				
Ant.D	Head	802.11n (HT40)	DS13	0	Right Touch	54	5270	0.197	98.2	18.00	17.68	0.134	0.147				
Ant.D	Head	802.11n (HT40)	DS13	0	Right Tilt	54	5270	0.091	98.2	18.00	17.68	0.057	0.062				
Ant.D	Body worn	802.11n (HT40)	DS11	10	Rear	54	5270	0.251	98.2	18.00	17.68	0.174	0.191				1 81
Ant.D	Body worn	802.11n (HT40)	DS11	10	Front	54	5270	0.030	98.2	18.00	17.68						
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Rear	54	5270	0.745	98.2	18.00	17.68			0.176	0.193		
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Front	54	5270	0.195	98.2	18.00	17.68						
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Top	54	5270	2.650	98.2	18.00	17.68			0.627	0.687		2
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Right	54	5270	2.460	98.2	18.00	17.68						

U-NII 2A MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11n (HT40)	DS13	0	Left Touch	54	5270	0.827	98.2	18.00	17.10	0.634	0.794				82
Ant.G	Head	802.11n (HT40)	DS13	0	Left Tilt	54	5270	0.229	98.2	18.00	17.10						
Ant.G	Head	802.11n (HT40)	DS13	0	Right Touch	54	5270	0.696	98.2	18.00	17.10	0.459	0.575				
Ant.G	Head	802.11n (HT40)	DS13	0	Right Tilt	54	5270	0.145	98.2	18.00	17.10						
Ant.G	Body worn	802.11n (HT40)	DS11	10	Rear	54	5270	0.339	98.2	18.00	17.10						
Ant.G	Body worn	802.11n (HT40)	DS11	10	Front	54	5270	0.125	98.2	18.00	17.10						
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Rear	54	5270	1.830	98.2	18.00	17.10			0.418	0.524		4
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Front	54	5270	0.793	98.2	18.00	17.10						
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Top	54	5270	3.720	98.2	18.00	17.10						
Ant.G	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Right	54	5270	4.110	98.2	18.00	17.10			1.190	1.491		83
Ant.D	Head	802.11n (HT40)	DS13	0	Left Touch	54	5270	0.827	98.2	18.00	17.70						
Ant.D	Head	802.11n (HT40)	DS13	0	Left Tilt	54	5270	0.229	98.2	18.00	17.70	0.177	0.193				
Ant.D	Head	802.11n (HT40)	DS13	0	Right Touch	54	5270	0.696	98.2	18.00	17.70						
Ant.D	Head	802.11n (HT40)	DS13	0	Right Tilt	54	5270	0.145	98.2	18.00	17.70	0.103	0.112				
Ant.D	Body worn	802.11n (HT40)	DS11	10	Rear	54	5270	0.339	98.2	18.00	17.70	0.250	0.273				1 84
Ant.D	Body worn	802.11n (HT40)	DS11	10	Front	54	5270	0.125	98.2	18.00	17.70						
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Rear	54	5270	1.830	98.2	18.00	17.70						
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Front	54	5270	0.793	98.2	18.00	17.70						
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Top	54	5270	3.720	98.2	18.00	17.70			0.830	0.906		2
Ant.D	Product specific 10-g SAR	802.11n (HT40)	DS11	0	Right	54	5270	4.110	98.2	18.00	17.70						

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
- Tested all positions of U-NII 2A Head exposure condition without applying initial SAR.

Wi-Fi (U-NII Bands) (Continued)

U-NII 2C SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCSO	DS13	0	Left Touch	122	5610	0.328	94.4	18.00	17.41						
Ant.G	Head	802.11ac MCSO	DS13	0	Left Tilt	122	5610	0.118	94.4	18.00	17.41						
Ant.G	Head	802.11ac MCSO	DS13	0	Right Touch	122	5610	0.375	94.4	18.00	17.41	0.234	0.284			1	
Ant.G	Head	802.11ac MCSO	DS13	0	Right Tilt	122	5610	0.076	94.4	18.00	17.41						
Ant.G	Body worn	802.11ac MCSO	DS11	10	Rear	122	5610	0.311	94.4	18.00	17.41	0.210	0.255				85
Ant.G	Body worn	802.11ac MCSO	DS11	10	Front	122	5610	0.089	94.4	18.00	17.41	0.064	0.078				4
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Rear	122	5610	1.420	94.4	18.00	17.41			0.398	0.483		2
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Front	122	5610	1.280	94.4	18.00	17.41						
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Right	122	5610	4.870	94.4	18.00	17.41			1.400	1.698		86

U-NII 2C SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCSO	DS13	0	Left Touch	122	5610	0.175	94.4	18.00	17.73						
Ant.D	Head	802.11ac MCSO	DS13	0	Left Tilt	122	5610	0.237	94.4	18.00	17.73						
Ant.D	Head	802.11ac MCSO	DS13	0	Right Touch	122	5610	0.245	94.4	18.00	17.73						
Ant.D	Head	802.11ac MCSO	DS13	0	Right Tilt	122	5610	0.340	94.4	18.00	17.73	0.265	0.299			1	87
Ant.D	Body worn	802.11ac MCSO	DS11	10	Rear	122	5610	0.285	94.4	18.00	17.73	0.201	0.227				
Ant.D	Body worn	802.11ac MCSO	DS11	10	Front	122	5610	0.057	94.4	18.00	17.73	0.039	0.044				4
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Rear	122	5610	2.130	94.4	18.00	17.73						
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Front	122	5610	0.372	94.4	18.00	17.73						
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Top	122	5610	6.010	94.4	18.00	17.73			1.460	1.645		
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Right	122	5610	4.720	94.4	18.00	17.73			0.951	1.072		2

U-NII 2C MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCSO	DS13	0	Left Touch	122	5610	0.348	94.4	18.00	17.33						
Ant.G	Head	802.11ac MCSO	DS13	0	Left Tilt	122	5610	0.320	94.4	18.00	17.33						
Ant.G	Head	802.11ac MCSO	DS13	0	Right Touch	122	5610	0.355	94.4	18.00	17.33	0.232	0.287			1	88
Ant.G	Head	802.11ac MCSO	DS13	0	Right Tilt	122	5610	0.298	94.4	18.00	17.33						
Ant.G	Body worn	802.11ac MCSO	DS11	10	Rear	122	5610	0.473	94.4	18.00	17.33						
Ant.G	Body worn	802.11ac MCSO	DS11	10	Front	122	5610	0.075	94.4	18.00	17.33	0.072	0.089				4
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Rear	122	5610	3.120	94.4	18.00	17.33						
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Front	122	5610	1.400	94.4	18.00	17.33						
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Top	122	5610	6.270	94.4	18.00	17.33						
Ant.G	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Right	122	5610	7.410	94.4	18.00	17.33						
Ant.D	Head	802.11ac MCSO	DS13	0	Left Touch	122	5610	0.348	94.4	18.00	17.61						
Ant.D	Head	802.11ac MCSO	DS13	0	Left Tilt	122	5610	0.320	94.4	18.00	17.61						
Ant.D	Head	802.11ac MCSO	DS13	0	Right Touch	122	5610	0.355	94.4	18.00	17.61						
Ant.D	Head	802.11ac MCSO	DS13	0	Right Tilt	122	5610	0.298	94.4	18.00	17.61						
Ant.D	Body worn	802.11ac MCSO	DS11	10	Rear	122	5610	0.473	94.4	18.00	17.61	0.389	0.451			1	89
Ant.D	Body worn	802.11ac MCSO	DS11	10	Front	122	5610	0.075	94.4	18.00	17.61						
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Rear	122	5610	3.120	94.4	18.00	17.61						
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Front	122	5610	1.400	94.4	18.00	17.61						
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Top	122	5610	6.270	94.4	18.00	17.61			1.630	1.888		90
Ant.D	Product specific 10-g SAR	802.11ac MCSO	DS11	0	Right	122	5610	7.410	94.4	18.00	17.61			1.340	1.552		2

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

Wi-Fi (U-NII Bands) (Continued)

U-NII 3 SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCS0	DS13	0	Left Touch	155	5775	0.360	94.4	18.00	17.36	0.262	0.322	2	
Ant.G	Head	802.11ac MCS0	DS13	0	Left Tilt	155	5775	0.277	94.4	18.00	17.36				
Ant.G	Head	802.11ac MCS0	DS13	0	Right Touch	155	5775	0.671	94.4	18.00	17.36	0.446	0.547		91
Ant.G	Head	802.11ac MCS0	DS13	0	Right Tilt	155	5775	0.190	94.4	18.00	17.36				
Ant.G	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Rear	155	5775	0.284	94.4	18.00	17.36	0.187	0.229	4	
Ant.G	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Front	155	5775	0.113	94.4	18.00	17.36	0.076	0.093	4	
Ant.G	Hotspot	802.11ac MCS0	DS11	10	Right	155	5775	0.381	94.4	18.00	17.36	0.324	0.398		92

U-NII 3 SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCS0	DS13	0	Left Touch	155	5775	0.388	94.4	18.00	17.77				
Ant.D	Head	802.11ac MCS0	DS13	0	Left Tilt	155	5775	0.386	94.4	18.00	17.77	0.256	0.286		
Ant.D	Head	802.11ac MCS0	DS13	0	Right Touch	155	5775	0.247	94.4	18.00	17.77				
Ant.D	Head	802.11ac MCS0	DS13	0	Right Tilt	155	5775	0.296	94.4	18.00	17.77	0.208	0.232	4	
Ant.D	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Rear	155	5775	0.335	94.4	18.00	17.77	0.211	0.236		
Ant.D	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Front	155	5775	0.070	94.4	18.00	17.77	0.044	0.049	4	
Ant.D	Hotspot	802.11ac MCS0	DS11	10	Top	155	5775	0.247	94.4	18.00	17.77				
Ant.D	Hotspot	802.11ac MCS0	DS11	10	Right	155	5775	0.236	94.4	18.00	17.77				

U-NII 3 MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCS0	DS13	0	Left Touch	155	5775	0.594	94.4	18.00	17.27				
Ant.G	Head	802.11ac MCS0	DS13	0	Left Tilt	155	5775	0.724	94.4	18.00	17.27				
Ant.G	Head	802.11ac MCS0	DS13	0	Right Touch	155	5775	0.750	94.4	18.00	17.27	0.482	0.604		93
Ant.G	Head	802.11ac MCS0	DS13	0	Right Tilt	155	5775	0.521	94.4	18.00	17.27				
Ant.G	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Rear	155	5775	0.288	94.4	18.00	17.27				
Ant.G	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Front	155	5775	0.159	94.4	18.00	17.27	0.118	0.148	4	
Ant.G	Hotspot	802.11ac MCS0	DS11	10	Top	155	5775	0.400	94.4	18.00	17.27				
Ant.G	Hotspot	802.11ac MCS0	DS11	10	Right	155	5775	0.579	94.4	18.00	17.27	0.449	0.563		94
Ant.D	Head	802.11ac MCS0	DS13	0	Left Touch	155	5775	0.594	94.4	18.00	17.66				
Ant.D	Head	802.11ac MCS0	DS13	0	Left Tilt	155	5775	0.724	94.4	18.00	17.66	0.444	0.508		2
Ant.D	Head	802.11ac MCS0	DS13	0	Right Touch	155	5775	0.750	94.4	18.00	17.66				
Ant.D	Head	802.11ac MCS0	DS13	0	Right Tilt	155	5775	0.521	94.4	18.00	17.66				
Ant.D	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Rear	155	5775	0.288	94.4	18.00	17.66	0.196	0.224	4	
Ant.D	Bodyworn & Hotspot	802.11ac MCS0	DS11	10	Front	155	5775	0.159	94.4	18.00	17.66				
Ant.D	Hotspot	802.11ac MCS0	DS11	10	Top	155	5775	0.400	94.4	18.00	17.66	0.316	0.362		2
Ant.D	Hotspot	802.11ac MCS0	DS11	10	Right	155	5775	0.579	94.4	18.00	17.66				

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

Wi-Fi (U-NII Bands) (Continued)

U-NII 4 SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCS0	DS13	0	Left Touch	171	5855	0.366	94.4	18.00	17.41	0.281	0.341			1	
Ant.G	Head	802.11ac MCS0	DS13	0	Left Tilt	171	5855	0.271	94.4	18.00	17.41						
Ant.G	Head	802.11ac MCS0	DS13	0	Right Touch	171	5855	0.362	94.4	18.00	17.41						
Ant.G	Head	802.11ac MCS0	DS13	0	Right Tilt	171	5855	0.172	94.4	18.00	17.41						
Ant.G	Body worn	802.11ac MCS0	DS11	10	Rear	171	5855	0.155	94.4	18.00	17.41	0.123	0.149				
Ant.G	Body worn	802.11ac MCS0	DS11	10	Front	171	5855	0.119	94.4	18.00	17.41	0.087	0.106			4	
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Rear	171	5855	1.310	94.4	18.00	17.41						
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Front	171	5855	1.480	94.4	18.00	17.41			0.254	0.308	2	
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Right	171	5855	4.150	94.4	18.00	17.41			1.020	1.237	95	

U-NII 4 SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCS0	DS13	0	Left Touch	171	5855	0.404	94.4	18.00	17.52						
Ant.D	Head	802.11ac MCS0	DS13	0	Left Tilt	171	5855	0.439	94.4	18.00	17.52	0.294	0.348			1	96
Ant.D	Head	802.11ac MCS0	DS13	0	Right Touch	171	5855	0.321	94.4	18.00	17.52						
Ant.D	Head	802.11ac MCS0	DS13	0	Right Tilt	171	5855	0.372	94.4	18.00	17.52						
Ant.D	Body worn	802.11ac MCS0	DS11	10	Rear	171	5855	0.250	94.4	18.00	17.52	0.184	0.218				97
Ant.D	Body worn	802.11ac MCS0	DS11	10	Front	171	5855	0.049	94.4	18.00	17.52	0.034	0.040			4	
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Rear	171	5855	0.849	94.4	18.00	17.52						
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Front	171	5855	0.352	94.4	18.00	17.52						
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Top	171	5855	4.660	94.4	18.00	17.52			0.854	1.010		
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Right	171	5855	0.985	94.4	18.00	17.52			0.289	0.342	2	

U-NII 4 MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Head	802.11ac MCS0	DS13	0	Left Touch	171	5855	0.437	94.4	18.00	17.27						
Ant.G	Head	802.11ac MCS0	DS13	0	Left Tilt	171	5855	0.586	94.4	18.00	17.27						
Ant.G	Head	802.11ac MCS0	DS13	0	Right Touch	171	5855	0.424	94.4	18.00	17.27						
Ant.G	Head	802.11ac MCS0	DS13	0	Right Tilt	171	5855	0.454	94.4	18.00	17.27						
Ant.G	Body worn	802.11ac MCS0	DS11	10	Rear	171	5855	0.244	94.4	18.00	17.27						
Ant.G	Body worn	802.11ac MCS0	DS11	10	Front	171	5855	0.145	94.4	18.00	17.27	0.109	0.137			4	
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Rear	171	5855	2.140	94.4	18.00	17.27						
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Front	171	5855	1.260	94.4	18.00	17.27						
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Top	171	5855	5.310	94.4	18.00	17.27						
Ant.G	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Right	171	5855	4.710	94.4	18.00	17.27			1.010	1.265	2	98
Ant.D	Head	802.11ac MCS0	DS13	0	Left Touch	171	5855	0.437	94.4	18.00	17.39						
Ant.D	Head	802.11ac MCS0	DS13	0	Left Tilt	171	5855	0.586	94.4	18.00	17.39	0.382	0.466				99
Ant.D	Head	802.11ac MCS0	DS13	0	Right Touch	171	5855	0.424	94.4	18.00	17.39						
Ant.D	Head	802.11ac MCS0	DS13	0	Right Tilt	171	5855	0.454	94.4	18.00	17.39	0.329	0.401			2	
Ant.D	Body worn	802.11ac MCS0	DS11	10	Rear	171	5855	0.244	94.4	18.00	17.39	0.174	0.212				100
Ant.D	Body worn	802.11ac MCS0	DS11	10	Front	171	5855	0.145	94.4	18.00	17.39						
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Rear	171	5855	2.140	94.4	18.00	17.39						
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Front	171	5855	1.260	94.4	18.00	17.39						
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Top	171	5855	5.310	94.4	18.00	17.39			1.010	1.231		
Ant.D	Product specific 10-g SAR	802.11ac MCS0	DS11	0	Right	171	5855	4.710	94.4	18.00	17.39						

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

10.1.20. Bluetooth

Bluetooth SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist. (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant. G	Head	LE1M 255pkt	DSI3	0	Left Touch	0	2402	85.4	19.50	18.88	0.108	0.127	
Ant. G	Head	LE1M 255pkt	DSI3	0	Left Tilt	0	2402	85.4	19.50	18.88	0.029	0.034	
Ant. G	Head	LE1M 255pkt	DSI3	0	Right Touch	0	2402	85.4	19.50	18.88	0.074	0.087	
Ant. G	Head	LE1M 255pkt	DSI3	0	Right Tilt	0	2402	85.4	19.50	18.88	0.014	0.016	
Ant. G	Bodyworn & Hotspot	LE1M 255pkt	DSI1	10	Rear	0	2402	85.4	19.50	18.88	0.113	0.133	
Ant. G	Bodyworn & Hotspot	LE1M 255pkt	DSI1	10	Front	0	2402	85.4	19.50	18.88	0.016	0.019	
Ant. G	Hotspot	LE1M 255pkt	DSI1	10	Right	0	2402	85.4	19.50	18.88	0.094	0.110	

Bluetooth SISO Ant.F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist. (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.F	Head	LE1M 255pkt	DSI3	0	Left Touch	19	2440	85.4	19.50	18.93	0.198	0.230	
Ant.F	Head	LE1M 255pkt	DSI3	0	Left Tilt	19	2440	85.4	19.50	18.93	0.246	0.286	
Ant.F	Head	LE1M 255pkt	DSI3	0	Right Touch	19	2440	85.4	19.50	18.93	0.169	0.196	
Ant.F	Head	LE1M 255pkt	DSI3	0	Right Tilt	19	2440	85.4	19.50	18.93	0.247	0.287	101
Ant.F	Bodyworn & Hotspot	LE1M 255pkt	DSI1	10	Rear	19	2440	85.4	19.50	18.93	0.309	0.359	102
Ant.F	Bodyworn & Hotspot	LE1M 255pkt	DSI1	10	Front	19	2440	85.4	19.50	18.93	0.066	0.077	
Ant.F	Hotspot	LE1M 255pkt	DSI1	10	Top	19	2440	85.4	19.50	18.93	0.321	0.373	
Ant.F	Hotspot	LE1M 255pkt	DSI1	10	Left	19	2440	85.4	19.50	18.93	0.018	0.021	
Ant.F	Hotspot	LE1M 255pkt	DSI1	10	Right	19	2440	85.4	19.50	18.93	0.050	0.058	

Bluetooth MIMO Ant.G+F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist. (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.G	Head	GFSK DH5	DSI3	0	Left Touch	39	2441	77.1	15.50	14.73	0.053	0.065	
Ant.G	Head	GFSK DH5	DSI3	0	Left Tilt	39	2441	77.1	15.50	14.73			
Ant.G	Head	GFSK DH5	DSI3	0	Right Touch	39	2441	77.1	15.50	14.73			
Ant.G	Head	GFSK DH5	DSI3	0	Right Tilt	39	2441	77.1	15.50	14.73			
Ant.G	Bodyworn & Hotspot	GFSK DH5	DSI1	10	Rear	39	2441	77.1	15.50	14.73			
Ant.G	Bodyworn & Hotspot	GFSK DH5	DSI1	10	Front	39	2441	77.1	15.50	14.73			
Ant.G	Hotspot	GFSK DH5	DSI1	10	Top	39	2441	77.1	15.50	14.73			
Ant.G	Hotspot	GFSK DH5	DSI1	10	Left	39	2441	77.1	15.50	14.73			
Ant.G	Hotspot	GFSK DH5	DSI1	10	Right	39	2441	77.1	15.50	14.73	0.045	0.055	
Ant.F	Head	GFSK DH5	DSI3	0	Left Touch	39	2441	77.1	15.50	14.90			
Ant.F	Head	GFSK DH5	DSI3	0	Left Tilt	39	2441	77.1	15.50	14.90	0.082	0.097	
Ant.F	Head	GFSK DH5	DSI3	0	Right Touch	39	2441	77.1	15.50	14.90	0.051	0.060	
Ant.F	Head	GFSK DH5	DSI3	0	Right Tilt	39	2441	77.1	15.50	14.90	0.094	0.111	103
Ant.F	Bodyworn & Hotspot	GFSK DH5	DSI1	10	Rear	39	2441	77.1	15.50	14.90	0.100	0.118	
Ant.F	Bodyworn & Hotspot	GFSK DH5	DSI1	10	Front	39	2441	77.1	15.50	14.90	0.058	0.068	
Ant.F	Hotspot	GFSK DH5	DSI1	10	Top	39	2441	77.1	15.50	14.90	0.117	0.138	104
Ant.F	Hotspot	GFSK DH5	DSI1	10	Left	39	2441	77.1	15.50	14.90	0.015	0.018	
Ant.F	Hotspot	GFSK DH5	DSI1	10	Right	39	2441	77.1	15.50	14.90			

10.1.21. NFC

Antenna	Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Test setup		Freq. (MHz)	10-g SAR (W/kg)		Plot No.
					Type	Bitrate		Meas.		
NFC	PBRS	Product specific 10-g SAR	0	Rear	A	106	13.6	0.011		105
NFC	PBRS	Product specific 10-g SAR	0	Front	A	106	13.6	<0.001		
NFC	PBRS	Product specific 10-g SAR	0	Top	A	106	13.6	<0.001		
NFC	PBRS	Product specific 10-g SAR	0	Left	A	106	13.6	<0.001		

10.2. Folder Opened (UMPC-mini tablet) SAR Results

10.2.1. GSM 850

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.A+B	Body	GPRS 2 Slots	10	Rear	190	836.6	32.50	30.85	0.440	0.643			1
Ant.A+B	Body	GPRS 2 Slots	10	Front	190	836.6	32.50	30.85	0.370	0.541			
Ant.A+B	Body	GPRS 2 Slots	10	Bottom	190	836.6	32.50	30.85	0.193	0.282			
Ant.A+B	Body	GPRS 2 Slots	10	Right	190	836.6	32.50	30.85	0.382	0.559			
Ant.A+B	Extremity	GPRS 2 Slots	0	Rear	190	836.6	32.50	30.85			1.170	1.711	2
Ant.A+B	Extremity	GPRS 2 Slots	0	Front	190	836.6	32.50	30.85			1.160	1.696	
Ant.A+B	Extremity	GPRS 2 Slots	0	Bottom	190	836.6	32.50	30.85			0.849	1.241	
Ant.A+B	Extremity	GPRS 2 Slots	0	Right	190	836.6	32.50	30.85			1.050	1.535	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	GPRS 2 Slots	10	Rear	128	824.2	32.50	31.29	0.182	0.240			
Ant. D	Body	GPRS 2 Slots	10	Front	128	824.2	32.50	31.29	0.180	0.238			
Ant. D	Body	GPRS 2 Slots	10	Top	128	824.2	32.50	31.29	0.102	0.135			
Ant. D	Body	GPRS 2 Slots	10	Right	128	824.2	32.50	31.29	0.189	0.250			3
Ant. D	Extremity	GPRS 2 Slots	0	Rear	128	824.2	32.50	31.29			0.513	0.678	
Ant. D	Extremity	GPRS 2 Slots	0	Front	128	824.2	32.50	31.29			1.100	1.453	4
Ant. D	Extremity	GPRS 2 Slots	0	Top	128	824.2	32.50	31.29			0.474	0.626	
Ant. D	Extremity	GPRS 2 Slots	0	Right	128	824.2	32.50	31.29			0.718	0.949	

10.2.2. GSM 1900

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	GPRS 4 Slots	10	Rear	661	1880.0	22.50	21.64	0.385	0.469			
Ant.B	Body	GPRS 4 Slots	10	Front	661	1880.0	22.50	21.64	0.337	0.411			
Ant.B	Body	GPRS 4 Slots	10	Bottom	661	1880.0	22.50	21.64	0.595	0.725			5
Ant.B	Body	GPRS 4 Slots	10	Right	661	1880.0	22.50	21.64	0.188	0.229			
Ant.B	Extremity	GPRS 4 Slots	0	Rear	661	1880.0	22.50	21.64			0.968	1.180	
Ant.B	Extremity	GPRS 4 Slots	0	Front	661	1880.0	22.50	21.64			0.972	1.185	
Ant.B	Extremity	GPRS 4 Slots	0	Bottom	512	1850.2	22.50	21.39			1.960	2.531	
Ant.B	Extremity	GPRS 4 Slots	0	Bottom	661	1880.0	22.50	21.64			2.020	2.462	
Ant.B	Extremity	GPRS 4 Slots	0	Bottom	810	1909.8	22.50	21.38			1.990	2.575	6
Ant.B	Extremity	GPRS 4 Slots	0	Right	661	1880.0	22.50	21.64			0.532	0.649	

10.2.3. WCDMA Band II

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Rear	9400	1880.0	20.00	19.32	0.593	0.694			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Front	9400	1880.0	20.00	19.32	0.466	0.545			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	9262	1852.4	20.00	19.27	0.814	0.963			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	9400	1880.0	20.00	19.32	0.930	1.088			7
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	9538	1907.6	20.00	19.24	0.884	1.053			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Right	9400	1880.0	20.00	19.32	0.277	0.324			
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Rear	9400	1880.0	20.00	19.32			1.100	1.286	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Front	9400	1880.0	20.00	19.32			1.400	1.637	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	9262	1852.4	20.00	19.27			2.610	3.088	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	9400	1880.0	20.00	19.32			2.650	3.099	8
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	9538	1907.6	20.00	19.24			2.550	3.038	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Right	9400	1880.0	20.00	19.32			0.769	0.899	

10.2.4. WCDMA Band IV

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Rear	1413	1732.6	20.00	19.34	0.619	0.721			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Front	1413	1732.6	20.00	19.34	0.362	0.421			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	1312	1712.4	20.00	19.60	0.917	1.005			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	1413	1732.6	20.00	19.34	0.898	1.045			
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	1513	1752.6	20.00	19.22	0.881	1.054			9
Ant.B	Body	Rel 99(RMC, 12.2 kbps)	10	Right	1413	1732.6	20.00	19.34	0.153	0.178			
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Rear	1413	1732.6	20.00	19.34			1.030	1.199	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Front	1413	1732.6	20.00	19.34			0.976	1.136	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	1312	1712.4	20.00	19.6			2.540	2.785	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	1413	1732.6	20.00	19.34			2.360	2.747	
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	1513	1752.6	20.00	19.22			2.450	2.932	10
Ant.B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Right	1413	1732.6	20.00	19.34			0.384	0.447	

10.2.5. WCDMA Band V

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.A+B	Body	Rel 99(RMC, 12.2 kbps)	10	Rear	4183	836.6	25.50	24.55	0.605	0.753			11
Ant.A+B	Body	Rel 99(RMC, 12.2 kbps)	10	Front	4183	836.6	25.50	24.55	0.409	0.509			
Ant.A+B	Body	Rel 99(RMC, 12.2 kbps)	10	Bottom	4183	836.6	25.50	24.55	0.252	0.314			
Ant.A+B	Body	Rel 99(RMC, 12.2 kbps)	10	Right	4183	836.6	25.50	24.55	0.411	0.511			
Ant.A+B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Rear	4183	836.6	25.50	24.55			1.300	1.618	
Ant.A+B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Front	4183	836.6	25.50	24.55			1.270	1.581	
Ant.A+B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Bottom	4183	836.6	25.50	24.55			1.070	1.332	
Ant.A+B	Extremity	Rel 99(RMC, 12.2 kbps)	0	Right	4183	836.6	25.50	24.55			1.600	1.991	12

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	Rel 99(RMC, 12.2 kbps)	10	Rear	4183	836.6	25.50	24.13	0.517	0.709			13
Ant. D	Body	Rel 99(RMC, 12.2 kbps)	10	Front	4183	836.6	25.50	24.13	0.282	0.387			
Ant. D	Body	Rel 99(RMC, 12.2 kbps)	10	Top	4183	836.6	25.50	24.13	0.168	0.230			
Ant. D	Body	Rel 99(RMC, 12.2 kbps)	10	Right	4183	836.6	25.50	24.13	0.284	0.389			
Ant. D	Extremity	Rel 99(RMC, 12.2 kbps)	0	Rear	4183	836.6	25.50	24.13			0.841	1.153	
Ant. D	Extremity	Rel 99(RMC, 12.2 kbps)	0	Front	4183	836.6	25.50	24.13			1.420	1.947	14
Ant. D	Extremity	Rel 99(RMC, 12.2 kbps)	0	Top	4183	836.6	25.50	24.13			0.741	1.016	
Ant. D	Extremity	Rel 99(RMC, 12.2 kbps)	0	Right	4183	836.6	25.50	24.13			0.936	1.283	

10.2.6. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.A+B	Body	QPSK	10	Rear	20525	836.5	1	25	25.50	24.22	0.579	0.777			15
Ant.A+B	Body	QPSK	10	Rear	20525	836.5	25	0	24.50	23.18	0.468	0.634			
Ant.A+B	Body	QPSK	10	Front	20525	836.5	1	25	25.50	24.22	0.476	0.639			
Ant.A+B	Body	QPSK	10	Front	20525	836.5	25	0	24.50	23.18	0.382	0.518			
Ant.A+B	Body	QPSK	10	Bottom	20525	836.5	1	25	25.50	24.22	0.173	0.232			
Ant.A+B	Body	QPSK	10	Bottom	20525	836.5	25	0	24.50	23.18	0.151	0.205			
Ant.A+B	Body	QPSK	10	Right	20525	836.5	1	25	25.50	24.22	0.373	0.501			
Ant.A+B	Body	QPSK	10	Right	20525	836.5	25	0	24.50	23.18	0.306	0.415			
Ant.A+B	Extremity	QPSK	0	Rear	20525	836.5	1	25	25.50	24.22			0.861	1.156	
Ant.A+B	Extremity	QPSK	0	Rear	20525	836.5	25	0	24.50	23.18			0.702	0.951	
Ant.A+B	Extremity	QPSK	0	Front	20525	836.5	1	25	25.50	24.22			1.610	2.162	16
Ant.A+B	Extremity	QPSK	0	Front	20525	836.5	25	0	24.50	23.18			1.340	1.816	
Ant.A+B	Extremity	QPSK	0	Bottom	20525	836.5	1	25	25.50	24.22			1.210	1.625	
Ant.A+B	Extremity	QPSK	0	Bottom	20525	836.5	25	0	24.50	23.18			0.994	1.347	
Ant.A+B	Extremity	QPSK	0	Right	20525	836.5	1	25	25.50	24.22			1.550	2.081	
Ant.A+B	Extremity	QPSK	0	Right	20525	836.5	25	0	24.50	23.18			1.290	1.748	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	QPSK	10	Rear	20525	836.5	1	25	25.50	24.20	0.455	0.614			17
Ant. D	Body	QPSK	10	Rear	20525	836.5	25	12	24.50	23.23	0.368	0.493			
Ant. D	Body	QPSK	10	Front	20525	836.5	1	25	25.50	24.20	0.236	0.318			
Ant. D	Body	QPSK	10	Front	20525	836.5	25	12	24.50	23.23	0.189	0.253			
Ant. D	Body	QPSK	10	Top	20525	836.5	1	25	25.50	24.20	0.118	0.159			
Ant. D	Body	QPSK	10	Top	20525	836.5	25	12	24.50	23.23	0.096	0.129			
Ant. D	Body	QPSK	10	Right	20525	836.5	1	25	25.50	24.20	0.244	0.329			
Ant. D	Body	QPSK	10	Right	20525	836.5	25	12	24.50	23.23	0.202	0.271			
Ant. D	Extremity	QPSK	0	Rear	20525	836.5	1	25	25.50	24.20			0.784	1.058	
Ant. D	Extremity	QPSK	0	Rear	20525	836.5	25	12	24.50	23.23			0.638	0.855	
Ant. D	Extremity	QPSK	0	Front	20525	836.5	1	25	25.50	24.20			1.190	1.605	18
Ant. D	Extremity	QPSK	0	Front	20525	836.5	25	12	24.50	23.23			0.952	1.275	
Ant. D	Extremity	QPSK	0	Top	20525	836.5	1	25	25.50	24.20			0.628	0.847	
Ant. D	Extremity	QPSK	0	Top	20525	836.5	25	12	24.50	23.23			0.498	0.667	
Ant. D	Extremity	QPSK	0	Right	20525	836.5	1	25	25.50	24.20			0.821	1.107	
Ant. D	Extremity	QPSK	0	Right	20525	836.5	25	12	24.50	23.23			0.682	0.914	

10.2.7. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
AntA+B	Body	QPSK	10	Rear	23095	707.5	1	49	25.50	24.70	0.391	0.470			
AntA+B	Body	QPSK	10	Rear	23095	707.5	25	25	24.50	23.71	0.313	0.375			
AntA+B	Body	QPSK	10	Front	23095	707.5	1	49	25.50	24.70	0.411	0.494			19
AntA+B	Body	QPSK	10	Front	23095	707.5	25	25	24.50	23.71	0.319	0.383			
AntA+B	Body	QPSK	10	Bottom	23095	707.5	1	49	25.50	24.70	0.202	0.243			
AntA+B	Body	QPSK	10	Bottom	23095	707.5	25	25	24.50	23.71	0.163	0.196			
AntA+B	Body	QPSK	10	Right	23095	707.5	1	49	25.50	24.70	0.303	0.364			
AntA+B	Body	QPSK	10	Right	23095	707.5	25	25	24.50	23.71	0.246	0.295			
AntA+B	Extremity	QPSK	0	Rear	23095	707.5	1	49	25.50	24.70			0.738	0.887	
AntA+B	Extremity	QPSK	0	Rear	23095	707.5	25	25	24.50	23.71			0.708	0.849	
AntA+B	Extremity	QPSK	0	Front	23095	707.5	1	49	25.50	24.70			1.620	1.948	
AntA+B	Extremity	QPSK	0	Front	23095	707.5	25	25	24.50	23.71			1.310	1.571	
AntA+B	Extremity	QPSK	0	Bottom	23095	707.5	1	49	25.50	24.70			0.676	0.813	
AntA+B	Extremity	QPSK	0	Bottom	23095	707.5	25	25	24.50	23.71			0.533	0.639	
AntA+B	Extremity	QPSK	0	Right	23095	707.5	1	49	25.50	24.70			1.820	2.188	20
AntA+B	Extremity	QPSK	0	Right	23095	707.5	25	25	24.50	23.71			1.480	1.775	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	QPSK	10	Rear	23095	707.5	1	25	25.50	24.65	0.379	0.461			21
Ant. D	Body	QPSK	10	Rear	23095	707.5	25	25	24.50	23.77	0.315	0.373			
Ant. D	Body	QPSK	10	Front	23095	707.5	1	25	25.50	24.65	0.216	0.263			
Ant. D	Body	QPSK	10	Front	23095	707.5	25	25	24.50	23.77	0.174	0.206			
Ant. D	Body	QPSK	10	Top	23095	707.5	1	25	25.50	24.65	0.188	0.229			
Ant. D	Body	QPSK	10	Top	23095	707.5	25	25	24.50	23.77	0.155	0.183			
Ant. D	Body	QPSK	10	Right	23095	707.5	1	25	25.50	24.65	0.242	0.294			
Ant. D	Body	QPSK	10	Right	23095	707.5	25	25	24.50	23.77	0.205	0.243			
Ant. D	Extremity	QPSK	0	Rear	23095	707.5	1	25	25.50	24.65			0.593	0.721	
Ant. D	Extremity	QPSK	0	Rear	23095	707.5	25	25	24.50	23.77			0.469	0.555	
Ant. D	Extremity	QPSK	0	Front	23095	707.5	1	25	25.50	24.65			1.000	1.216	
Ant. D	Extremity	QPSK	0	Front	23095	707.5	25	25	24.50	23.77			0.802	0.949	
Ant. D	Extremity	QPSK	0	Top	23095	707.5	1	25	25.50	24.65			0.884	1.075	
Ant. D	Extremity	QPSK	0	Top	23095	707.5	25	25	24.50	23.77			0.697	0.825	
Ant. D	Extremity	QPSK	0	Right	23095	707.5	1	25	25.50	24.65			1.210	1.472	22
Ant. D	Extremity	QPSK	0	Right	23095	707.5	25	25	24.50	23.77			1.010	1.195	

10.2.8. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
AntA+B	Body	QPSK	10	Rear	23230	782.0	1	25	25.00	23.32	0.343	0.505			23
AntA+B	Body	QPSK	10	Rear	23230	782.0	25	0	24.00	22.34	0.273	0.400			
AntA+B	Body	QPSK	10	Front	23230	782.0	1	25	25.00	23.32	0.222	0.327			
AntA+B	Body	QPSK	10	Front	23230	782.0	25	0	24.00	22.34	0.191	0.280			
AntA+B	Body	QPSK	10	Bottom	23230	782.0	1	25	25.00	23.32	0.193	0.284			
AntA+B	Body	QPSK	10	Bottom	23230	782.0	25	0	24.00	22.34	0.152	0.223			
AntA+B	Body	QPSK	10	Right	23230	782.0	1	25	25.00	23.32	0.204	0.300			
AntA+B	Body	QPSK	10	Right	23230	782.0	25	0	24.00	22.34	0.157	0.230			
AntA+B	Extremity	QPSK	0	Rear	23230	782.0	1	25	25.00	23.32			0.449	0.661	
AntA+B	Extremity	QPSK	0	Rear	23230	782.0	25	0	24.00	22.34			0.357	0.523	
AntA+B	Extremity	QPSK	0	Front	23230	782.0	1	25	25.00	23.32			0.574	0.845	
AntA+B	Extremity	QPSK	0	Front	23230	782.0	25	0	24.00	22.34			0.448	0.657	
AntA+B	Extremity	QPSK	0	Bottom	23230	782.0	1	25	25.00	23.32			0.488	0.718	
AntA+B	Extremity	QPSK	0	Bottom	23230	782.0	25	0	24.00	22.34			0.386	0.566	
AntA+B	Extremity	QPSK	0	Right	23230	782.0	1	25	25.00	23.32			0.955	1.406	24
AntA+B	Extremity	QPSK	0	Right	23230	782.0	25	0	24.00	22.34			0.755	1.106	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	QPSK	10	Rear	23230	782.0	1	0	25.00	23.20	0.325	0.492			25
Ant. D	Body	QPSK	10	Rear	23230	782.0	25	0	24.00	22.21	0.257	0.388			
Ant. D	Body	QPSK	10	Front	23230	782.0	1	0	25.00	23.20	0.242	0.366			
Ant. D	Body	QPSK	10	Front	23230	782.0	25	0	24.00	22.21	0.193	0.291			
Ant. D	Body	QPSK	10	Top	23230	782.0	1	0	25.00	23.20	0.171	0.259			
Ant. D	Body	QPSK	10	Top	23230	782.0	25	0	24.00	22.21	0.136	0.205			
Ant. D	Body	QPSK	10	Right	23230	782.0	1	0	25.00	23.20	0.219	0.331			
Ant. D	Body	QPSK	10	Right	23230	782.0	25	0	24.00	22.21	0.169	0.255			
Ant. D	Extremity	QPSK	0	Rear	23230	782.0	1	0	25.00	23.20			0.470	0.711	
Ant. D	Extremity	QPSK	0	Rear	23230	782.0	25	0	24.00	22.21			0.371	0.560	
Ant. D	Extremity	QPSK	0	Front	23230	782.0	1	0	25.00	23.20			0.930	1.408	
Ant. D	Extremity	QPSK	0	Front	23230	782.0	25	0	24.00	22.21			0.730	1.102	
Ant. D	Extremity	QPSK	0	Top	23230	782.0	1	0	25.00	23.20			0.597	0.904	
Ant. D	Extremity	QPSK	0	Top	23230	782.0	25	0	24.00	22.21			0.471	0.711	
Ant. D	Extremity	QPSK	0	Right	23230	782.0	1	0	25.00	23.20			0.931	1.409	26
Ant. D	Extremity	QPSK	0	Right	23230	782.0	25	0	24.00	22.21			0.734	1.108	

10.2.9. LTE Band 25 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	QPSK	10	Rear	26140	1860.0	1	0	19.00	17.93	0.574	0.734			
Ant.B	Body	QPSK	10	Rear	26140	1860.0	50	24	19.00	17.95	0.576	0.734			
Ant.B	Body	QPSK	10	Front	26140	1860.0	1	0	19.00	17.93	0.306	0.391			
Ant.B	Body	QPSK	10	Front	26140	1860.0	50	24	19.00	17.95	0.301	0.383			
Ant.B	Body	QPSK	10	Bottom	26140	1860.0	1	0	19.00	17.93	0.747	0.956			
Ant.B	Body	QPSK	10	Bottom	26140	1860.0	50	24	19.00	17.95	0.772	0.983			
Ant.B	Body	QPSK	10	Bottom	26140	1860.0	100	0	19.00	17.92	0.766	0.982			
Ant.B	Body	QPSK	10	Bottom	26365	1882.5	1	0	19.00	17.82	0.770	1.010			
Ant.B	Body	QPSK	10	Bottom	26365	1882.5	50	24	19.00	17.91	0.786	1.010			
Ant.B	Body	QPSK	10	Bottom	26590	1905.0	1	0	19.00	17.92	0.793	1.017			27
Ant.B	Body	QPSK	10	Bottom	26590	1905.0	50	24	19.00	17.94	0.796	1.016			
Ant.B	Body	QPSK	10	Right	26140	1860.0	1	0	19.00	17.93	0.226	0.289			
Ant.B	Body	QPSK	10	Right	26140	1860.0	50	24	19.00	17.95	0.241	0.307			
Ant.B	Extremity	QPSK	0	Rear	26140	1860.0	1	0	19.00	17.93			1.270	1.625	
Ant.B	Extremity	QPSK	0	Rear	26140	1860.0	50	24	19.00	17.95			1.290	1.643	
Ant.B	Extremity	QPSK	0	Front	26140	1860.0	1	0	19.00	17.93			0.901	1.153	
Ant.B	Extremity	QPSK	0	Front	26140	1860.0	50	24	19.00	17.95			0.897	1.142	
Ant.B	Extremity	QPSK	0	Bottom	26140	1860.0	1	0	19.00	17.93			2.260	2.891	
Ant.B	Extremity	QPSK	0	Bottom	26140	1860.0	50	24	19.00	17.95			2.300	2.929	
Ant.B	Extremity	QPSK	0	Bottom	26140	1860.0	100	0	19.00	17.92			2.280	2.924	
Ant.B	Extremity	QPSK	0	Bottom	26365	1882.5	1	0	19.00	17.82			2.270	2.979	
Ant.B	Extremity	QPSK	0	Bottom	26365	1882.5	50	24	19.00	17.91			2.350	3.020	28
Ant.B	Extremity	QPSK	0	Bottom	26590	1905.0	1	0	19.00	17.92			2.310	2.962	
Ant.B	Extremity	QPSK	0	Bottom	26590	1905.0	50	24	19.00	17.94			2.280	2.910	
Ant.B	Extremity	QPSK	0	Right	26140	1860.0	1	0	19.00	17.93			0.583	0.746	
Ant.B	Extremity	QPSK	0	Right	26140	1860.0	50	24	19.00	17.95			0.620	0.790	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	QPSK	10	Rear	26365	1882.5	1	49	21.00	19.63	0.527	0.722			
Ant.E	Body	QPSK	10	Rear	26365	1882.5	50	24	21.00	19.71	0.538	0.724			29
Ant.E	Body	QPSK	10	Front	26365	1882.5	1	49	21.00	19.63	0.210	0.288			
Ant.E	Body	QPSK	10	Front	26365	1882.5	50	24	21.00	19.71	0.213	0.287			
Ant.E	Body	QPSK	10	Top	26365	1882.5	1	49	21.00	19.63	0.504	0.691			
Ant.E	Body	QPSK	10	Top	26365	1882.5	50	24	21.00	19.71	0.509	0.685			
Ant.E	Extremity	QPSK	0	Rear	26365	1882.5	1	49	21.00	19.63			0.732	1.003	
Ant.E	Extremity	QPSK	0	Rear	26365	1882.5	50	24	21.00	19.71			0.745	1.003	
Ant.E	Extremity	QPSK	0	Front	26365	1882.5	1	49	21.00	19.63			0.707	0.969	
Ant.E	Extremity	QPSK	0	Front	26365	1882.5	50	24	21.00	19.71			0.725	0.976	
Ant.E	Extremity	QPSK	0	Top	26140	1860.0	1	49	21.00	19.57			1.680	2.335	30
Ant.E	Extremity	QPSK	0	Top	26140	1860.0	50	24	21.00	19.70			1.690	2.280	
Ant.E	Extremity	QPSK	0	Top	26140	1860.0	100	0	21.00	19.68			1.640	2.223	
Ant.E	Extremity	QPSK	0	Top	26365	1882.5	1	49	21.00	19.63			1.600	2.193	
Ant.E	Extremity	QPSK	0	Top	26365	1882.5	50	24	21.00	19.71			1.670	2.248	
Ant.E	Extremity	QPSK	0	Top	26590	1905.0	1	49	21.00	19.59			1.500	2.075	
Ant.E	Extremity	QPSK	0	Top	26590	1905.0	50	24	21.00	19.69			1.520	2.055	

10.2.10. LTE Band 26 (15MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
AntA+B	Body	QPSK	10	Rear	26865	831.5	1	0	25.50	24.17	0.513	0.697			31
AntA+B	Body	QPSK	10	Rear	26865	831.5	36	0	24.50	23.20	0.447	0.603			
AntA+B	Body	QPSK	10	Front	26865	831.5	1	0	25.50	24.17	0.381	0.518			
AntA+B	Body	QPSK	10	Front	26865	831.5	36	0	24.50	23.20	0.318	0.429			
AntA+B	Body	QPSK	10	Bottom	26865	831.5	1	0	25.50	24.17	0.193	0.262			
AntA+B	Body	QPSK	10	Bottom	26865	831.5	36	0	24.50	23.20	0.158	0.213			
AntA+B	Body	QPSK	10	Right	26865	831.5	1	0	25.50	24.17	0.262	0.356			
AntA+B	Body	QPSK	10	Right	26865	831.5	36	0	24.50	23.20	0.225	0.304			
AntA+B	Extremity	QPSK	0	Rear	26865	831.5	1	0	25.50	24.17			0.860	1.168	
AntA+B	Extremity	QPSK	0	Rear	26865	831.5	36	0	24.50	23.20			0.726	0.979	
AntA+B	Extremity	QPSK	0	Front	26865	831.5	1	0	25.50	24.17			1.490	2.024	32
AntA+B	Extremity	QPSK	0	Front	26865	831.5	36	0	24.50	23.20			1.220	1.646	
AntA+B	Extremity	QPSK	0	Bottom	26865	831.5	1	0	25.50	24.17			0.623	0.846	
AntA+B	Extremity	QPSK	0	Bottom	26865	831.5	36	0	24.50	23.20			0.492	0.664	
AntA+B	Extremity	QPSK	0	Right	26865	831.5	1	0	25.50	24.17			1.390	1.888	
AntA+B	Extremity	QPSK	0	Right	26865	831.5	36	0	24.50	23.20			1.160	1.565	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	QPSK	10	Rear	26865	831.5	1	0	25.50	24.17	0.422	0.573			33
Ant. D	Body	QPSK	10	Rear	26865	831.5	36	0	24.50	23.11	0.359	0.494			
Ant. D	Body	QPSK	10	Front	26865	831.5	1	0	25.50	24.17	0.245	0.333			
Ant. D	Body	QPSK	10	Front	26865	831.5	36	0	24.50	23.11	0.191	0.263			
Ant. D	Body	QPSK	10	Top	26865	831.5	1	0	25.50	24.17	0.124	0.168			
Ant. D	Body	QPSK	10	Top	26865	831.5	36	0	24.50	23.11	0.101	0.139			
Ant. D	Body	QPSK	10	Right	26865	831.5	1	0	25.50	24.17	0.259	0.352			
Ant. D	Body	QPSK	10	Right	26865	831.5	36	0	24.50	23.11	0.218	0.300			
Ant. D	Extremity	QPSK	0	Rear	26865	831.5	1	0	25.50	24.17			0.768	1.043	
Ant. D	Extremity	QPSK	0	Rear	26865	831.5	36	0	24.50	23.11			0.644	0.887	
Ant. D	Extremity	QPSK	0	Front	26865	831.5	1	0	25.50	24.17			1.270	1.725	34
Ant. D	Extremity	QPSK	0	Front	26865	831.5	36	0	24.50	23.11			1.020	1.405	
Ant. D	Extremity	QPSK	0	Top	26865	831.5	1	0	25.50	24.17			0.645	0.876	
Ant. D	Extremity	QPSK	0	Top	26865	831.5	36	0	24.50	23.11			0.521	0.718	
Ant. D	Extremity	QPSK	0	Right	26865	831.5	1	0	25.50	24.17			0.928	1.261	
Ant. D	Extremity	QPSK	0	Right	26865	831.5	36	0	24.50	23.11			0.752	1.036	

10.2.11. LTE Band 41 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	QPSK	10	Rear	39750	2506.0	1	0	19.50	19.15	0.307	0.333			
Ant.B	Body	QPSK	10	Rear	39750	2506.0	50	0	19.50	19.13	0.317	0.345			
Ant.B	Body	QPSK	10	Front	39750	2506.0	1	0	19.50	19.15	0.217	0.235			
Ant.B	Body	QPSK	10	Front	39750	2506.0	50	0	19.50	19.13	0.220	0.240			
Ant.B	Body	QPSK	10	Bottom	39750	2506.0	1	0	19.50	19.15	0.572	0.620			
Ant.B	Body	QPSK	10	Bottom	39750	2506.0	50	0	19.50	19.13	0.570	0.621			
Ant.B	Body	QPSK	10	Bottom	39750	2506.0	100	0	19.50	19.02	0.560	0.625			
Ant.B	Body	QPSK	10	Bottom	40185	2549.5	1	0	19.50	18.76	0.642	0.761			
Ant.B	Body	QPSK	10	Bottom	40185	2549.5	50	0	19.50	18.75	0.645	0.767			
Ant.B	Body	QPSK	10	Bottom	40620	2593.0	1	0	19.50	18.64	0.665	0.811			
Ant.B	Body	QPSK	10	Bottom	40620	2593.0	50	0	19.50	18.71	0.711	0.853			
Ant.B	Body	QPSK	10	Bottom	41055	2636.5	1	0	19.50	18.84	0.817	0.951			
Ant.B	Body	QPSK	10	Bottom	41055	2636.5	50	0	19.50	18.87	0.810	0.936			
Ant.B	Body	QPSK	10	Bottom	41490	2680.0	1	0	19.50	18.64	0.773	0.942			
Ant.B	Body	QPSK	10	Bottom	41490	2680.0	50	0	19.50	18.66	0.807	0.979			
Ant.B	Body	QPSK	10	Right	39750	2506.0	1	0	19.50	19.15	0.070	0.076			
Ant.B	Body	QPSK	10	Right	39750	2506.0	50	0	19.50	19.13	0.072	0.079			
Ant.B	Extremity	QPSK	0	Rear	39750	2506.0	1	0	19.50	19.15			0.560	0.607	
Ant.B	Extremity	QPSK	0	Rear	39750	2506.0	50	0	19.50	19.13			0.577	0.628	
Ant.B	Extremity	QPSK	0	Front	39750	2506.0	1	0	19.50	19.15			0.743	0.805	
Ant.B	Extremity	QPSK	0	Front	39750	2506.0	50	0	19.50	19.13			0.759	0.826	
Ant.B	Extremity	QPSK	0	Bottom	39750	2506.0	1	0	19.50	19.15			1.730	1.875	
Ant.B	Extremity	QPSK	0	Bottom	39750	2506.0	50	0	19.50	19.13			1.800	1.960	
Ant.B	Extremity	QPSK	0	Bottom	39750	2506.0	100	0	19.50	19.02			1.870	2.089	
Ant.B	Extremity	QPSK	0	Bottom	40185	2549.5	1	0	19.50	18.76			1.980	2.348	
Ant.B	Extremity	QPSK	0	Bottom	40185	2549.5	50	0	19.50	18.75			2.040	2.425	
Ant.B	Extremity	QPSK	0	Bottom	40620	2593.0	1	0	19.50	18.64			2.020	2.462	
Ant.B	Extremity	QPSK	0	Bottom	40620	2593.0	50	0	19.50	18.71			2.190	2.627	
Ant.B	Extremity	QPSK	0	Bottom	41055	2636.5	1	0	19.50	18.84			2.250	2.619	
Ant.B	Extremity	QPSK	0	Bottom	41055	2636.5	50	0	19.50	18.87			2.370	2.740	
Ant.B	Extremity	QPSK	0	Bottom	41490	2680.0	1	0	19.50	18.64			2.130	2.596	
Ant.B	Extremity	QPSK	0	Bottom	41490	2680.0	50	0	19.50	18.66			2.250	2.730	
Ant.B	Extremity	QPSK	0	Right	39750	2506.0	1	0	19.50	19.15			0.107	0.116	
Ant.B	Extremity	QPSK	0	Right	39750	2506.0	50	0	19.50	19.13			0.110	0.120	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	QPSK	10	Rear	39750	2506.0	1	49	22.00	20.91	0.252	0.324			
Ant.E	Body	QPSK	10	Rear	39750	2506.0	50	50	22.00	20.92	0.247	0.317			
Ant.E	Body	QPSK	10	Front	39750	2506.0	1	49	22.00	20.91	0.193	0.248			
Ant.E	Body	QPSK	10	Front	39750	2506.0	50	50	22.00	20.92	0.186	0.239			
Ant.E	Body	QPSK	10	Top	39750	2506.0	1	49	22.00	20.91	0.458	0.589			
Ant.E	Body	QPSK	10	Top	39750	2506.0	50	50	22.00	20.92	0.453	0.581			
Ant.E	Extremity	QPSK	0	Rear	39750	2506.0	1	49	22.00	20.91			0.576	0.740	
Ant.E	Extremity	QPSK	0	Rear	39750	2506.0	50	50	22.00	20.92			0.611	0.784	
Ant.E	Extremity	QPSK	0	Front	39750	2506.0	1	49	22.00	20.91			0.736	0.946	
Ant.E	Extremity	QPSK	0	Front	39750	2506.0	50	50	22.00	20.92			0.778	0.998	
Ant.E	Extremity	QPSK	0	Top	39750	2506.0	1	49	22.00	20.91			1.750	2.249	
Ant.E	Extremity	QPSK	0	Top	39750	2506.0	50	50	22.00	20.92			1.830	2.347	
Ant.E	Extremity	QPSK	0	Top	39750	2506.0	100	0	22.00	20.88			1.840	2.381	
Ant.E	Extremity	QPSK	0	Top	40185	2549.5	1	49	22.00	20.76			1.850	2.461	
Ant.E	Extremity	QPSK	0	Top	40185	2549.5	50	50	22.00	20.64			1.920	2.626	
Ant.E	Extremity	QPSK	0	Top	40620	2593.0	1	49	22.00	20.77			1.800	2.389	
Ant.E	Extremity	QPSK	0	Top	40620	2593.0	50	50	22.00	20.77			1.840	2.442	
Ant.E	Extremity	QPSK	0	Top	41055	2636.5	1	49	22.00	20.79			1.730	2.286	
Ant.E	Extremity	QPSK	0	Top	41055	2636.5	50	50	22.00	20.77			1.830	2.429	
Ant.E	Extremity	QPSK	0	Top	41490	2680.0	1	49	22.00	20.77			1.670	2.217	
Ant.E	Extremity	QPSK	0	Top	41490	2680.0	50	50	22.00	20.79			1.690	2.233	

LTE Band 41 (20MHZ Bandwidth) (Continued)

LTE Band 41 Power Class 2

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	QPSK	10	Bottom	41490	2680.0	50	0	21.10	20.02	0.807	1.035			35
Ant.B	Body	QPSK	0	Bottom	41055	2636.5	50	0	21.10	20.24			2.320	2.828	36

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	QPSK	10	Top	39750	2506.0	1	49	23.60	22.43	0.454	0.594			37
Ant.E	Body	QPSK	0	Top	40185	2549.5	50	50	23.60	22.14			1.930	2.701	38

Note(s):

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

Reported SAR vs. Output power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle (%)	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)		
Ant.B	Body	43.3	21.1	55.8	1.035	63.3	19.5	56.4	0.979	0.968	6.9
Ant.B	Extremity	43.3	21.1	55.8	2.828	63.3	19.5	56.4	2.740	2.709	4.4

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle (%)	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)		
Ant.E	Body	43.3	23.6	99.2	0.594	63.3	22.0	100.3	0.589	0.582	2.0
Ant.E	Extremity	43.3	23.6	99.2	2.701	63.3	22.0	100.3	2.626	2.596	4.0

Note(s):

Additional SAR testing for Power Class 2 is not required when:
 The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 or 3.5 W/kg (1-g or 10-g respectively)

10.2.12. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	QPSK	10	Rear	132072	1720.0	1	49	20.00	19.15	0.488	0.593			
Ant.B	Body	QPSK	10	Rear	132072	1720.0	50	24	20.00	19.19	0.497	0.599			
Ant.B	Body	QPSK	10	Front	132072	1720.0	1	49	20.00	19.15	0.349	0.424			
Ant.B	Body	QPSK	10	Front	132072	1720.0	50	24	20.00	19.19	0.349	0.421			
Ant.B	Body	QPSK	10	Bottom	132072	1720.0	1	49	20.00	19.15	0.584	0.710			39
Ant.B	Body	QPSK	10	Bottom	132072	1720.0	50	24	20.00	19.19	0.586	0.706			
Ant.B	Body	QPSK	10	Right	132072	1720.0	1	49	20.00	19.15	0.154	0.187			
Ant.B	Body	QPSK	10	Right	132072	1720.0	50	24	20.00	19.19	0.155	0.187			
Ant.B	Extremity	QPSK	0	Rear	132072	1720.0	1	49	20.00	19.15			1.180	1.435	
Ant.B	Extremity	QPSK	0	Rear	132072	1720.0	50	24	20.00	19.19			1.190	1.434	
Ant.B	Extremity	QPSK	0	Front	132072	1720.0	1	49	20.00	19.15			0.918	1.116	
Ant.B	Extremity	QPSK	0	Front	132072	1720.0	50	24	20.00	19.19			1.020	1.229	
Ant.B	Extremity	QPSK	0	Bottom	132072	1720.0	1	49	20.00	19.15			2.170	2.639	
Ant.B	Extremity	QPSK	0	Bottom	132072	1720.0	50	24	20.00	19.19			2.240	2.699	
Ant.B	Extremity	QPSK	0	Bottom	132072	1720.0	100	0	20.00	19.19			2.160	2.603	
Ant.B	Extremity	QPSK	0	Bottom	132322	1745.0	1	49	20.00	19.00			2.410	3.034	
Ant.B	Extremity	QPSK	0	Bottom	132322	1745.0	50	24	20.00	19.04			2.430	3.031	
Ant.B	Extremity	QPSK	0	Bottom	132572	1770.0	1	49	20.00	19.02			2.500	3.133	40
Ant.B	Extremity	QPSK	0	Bottom	132572	1770.0	50	24	20.00	19.08			2.530	3.127	
Ant.B	Extremity	QPSK	0	Right	132072	1720.0	1	49	20.00	19.15			0.332	0.404	
Ant.B	Extremity	QPSK	0	Right	132072	1720.0	50	24	20.00	19.19			0.341	0.411	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	QPSK	10	Rear	132072	1720.0	1	0	21.00	19.90	0.502	0.647			
Ant.E	Body	QPSK	10	Rear	132072	1720.0	50	0	21.00	19.92	0.509	0.653			
Ant.E	Body	QPSK	10	Front	132072	1720.0	1	0	21.00	19.90	0.247	0.318			
Ant.E	Body	QPSK	10	Front	132072	1720.0	50	0	21.00	19.92	0.256	0.328			
Ant.E	Body	QPSK	10	Top	132072	1720.0	1	0	21.00	19.90	0.598	0.770			41
Ant.E	Body	QPSK	10	Top	132072	1720.0	50	0	21.00	19.92	0.591	0.758			
Ant.E	Extremity	QPSK	0	Rear	132072	1720.0	1	0	21.00	19.90			1.040	1.340	
Ant.E	Extremity	QPSK	0	Rear	132072	1720.0	50	0	21.00	19.92			1.070	1.372	
Ant.E	Extremity	QPSK	0	Front	132072	1720.0	1	0	21.00	19.90			1.040	1.340	
Ant.E	Extremity	QPSK	0	Front	132072	1720.0	50	0	21.00	19.92			1.060	1.359	
Ant.E	Extremity	QPSK	0	Top	132072	1720.0	1	0	21.00	19.90			1.530	1.971	42
Ant.E	Extremity	QPSK	0	Top	132072	1720.0	50	0	21.00	19.92			1.490	1.911	

10.2.13. NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
AntA+B	Body	DFT-s-OFDM QPSK	10	Rear	167300	836.5	1	52	25.00	24.11	0.553	0.679			
AntA+B	Body	DFT-s-OFDM QPSK	10	Rear	167300	836.5	50	28	25.00	23.88	0.589	0.762			43
AntA+B	Body	DFT-s-OFDM QPSK	10	Front	167300	836.5	1	52	25.00	24.11	0.416	0.511			
AntA+B	Body	DFT-s-OFDM QPSK	10	Front	167300	836.5	50	28	25.00	23.88	0.411	0.532			
AntA+B	Body	DFT-s-OFDM QPSK	10	Bottom	167300	836.5	1	52	25.00	24.11	0.224	0.275			
AntA+B	Body	DFT-s-OFDM QPSK	10	Bottom	167300	836.5	50	28	25.00	23.88	0.234	0.303			
AntA+B	Body	DFT-s-OFDM QPSK	10	Right	167300	836.5	1	52	25.00	24.11	0.307	0.377			
AntA+B	Body	DFT-s-OFDM QPSK	10	Right	167300	836.5	50	28	25.00	23.88	0.316	0.409			
AntA+B	Body	CP-OFDM QPSK	10	Rear	167300	836.5	1	1	23.50	22.60	0.397	0.488			
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Rear	167300	836.5	1	52	25.00	24.11			0.995	1.221	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Rear	167300	836.5	50	28	25.00	23.88			1.010	1.307	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Front	167300	836.5	1	52	25.00	24.11			1.140	1.399	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Front	167300	836.5	50	28	25.00	23.88			1.140	1.475	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Bottom	167300	836.5	1	52	25.00	24.11			0.989	1.214	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Bottom	167300	836.5	50	28	25.00	23.88			1.000	1.294	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Right	167300	836.5	1	52	25.00	24.11			1.490	1.829	
AntA+B	Extremity	DFT-s-OFDM QPSK	0	Right	167300	836.5	50	28	25.00	23.88			1.510	1.954	44
AntA+B	Extremity	CP-OFDM QPSK	0	Right	167300	836.5	1	1	23.50	22.60			1.210	1.489	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant. D	Body	DFT-s-OFDM QPSK	10	Rear	167300	836.5	1	1	25.00	23.76	0.474	0.631			45
Ant. D	Body	DFT-s-OFDM QPSK	10	Rear	167300	836.5	50	28	25.00	23.58	0.455	0.631			
Ant. D	Body	DFT-s-OFDM QPSK	10	Front	167300	836.5	1	1	25.00	23.76	0.346	0.460			
Ant. D	Body	DFT-s-OFDM QPSK	10	Front	167300	836.5	50	28	25.00	23.58	0.330	0.458			
Ant. D	Body	DFT-s-OFDM QPSK	10	Top	167300	836.5	1	1	25.00	23.76	0.202	0.269			
Ant. D	Body	DFT-s-OFDM QPSK	10	Top	167300	836.5	50	28	25.00	23.58	0.203	0.282			
Ant. D	Body	DFT-s-OFDM QPSK	10	Right	167300	836.5	1	1	25.00	23.76	0.274	0.365			
Ant. D	Body	DFT-s-OFDM QPSK	10	Right	167300	836.5	50	28	25.00	23.58	0.256	0.355			
Ant. D	Body	CP-OFDM QPSK	10	Rear	167300	836.5	1	1	23.50	22.27	0.336	0.446			
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Rear	167300	836.5	1	1	25.00	23.76			0.793	1.055	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Rear	167300	836.5	50	28	25.00	23.58			0.777	1.078	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Front	167300	836.5	1	1	25.00	23.76			1.100	1.463	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Front	167300	836.5	50	28	25.00	23.58			1.030	1.428	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Top	167300	836.5	1	1	25.00	23.76			1.130	1.503	46
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Top	167300	836.5	50	28	25.00	23.58			1.020	1.414	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Right	167300	836.5	1	1	25.00	23.76			1.010	1.344	
Ant. D	Extremity	DFT-s-OFDM QPSK	0	Right	167300	836.5	50	28	25.00	23.58			0.849	1.177	
Ant. D	Extremity	CP OFDM QPSK	0	Top	167300	836.5	1	1	23.50	22.27			0.705	0.936	

Note(s):
 CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.2.14. NR Band n25 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	376500	1882.5	1	1	19.00	18.27	0.576	0.681			
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	376500	1882.5	108	54	19.00	18.17	0.569	0.689			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	376500	1882.5	1	1	19.00	18.27	0.369	0.437			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	376500	1882.5	108	54	19.00	18.17	0.362	0.438			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	376500	1882.5	1	1	19.00	18.27	0.726	0.859			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	376500	1882.5	108	54	19.00	18.17	0.730	0.884			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	376500	1882.5	216	0	19.00	18.17	0.743	0.899			47
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	376500	1882.5	1	1	19.00	18.27	0.180	0.213			
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	376500	1882.5	108	54	19.00	18.17	0.203	0.246			
Ant.B	Body	CP-OFDM QPSK	10	Bottom	376500	1882.5	1	1	19.00	18.40	0.617	0.708			
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	376500	1882.5	1	1	19.00	18.27			0.978	1.157	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	376500	1882.5	108	54	19.00	18.17			0.936	1.133	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	376500	1882.5	1	1	19.00	18.27			1.120	1.325	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	376500	1882.5	108	54	19.00	18.17			1.080	1.307	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	376500	1882.5	1	1	19.00	18.27			2.140	2.532	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	376500	1882.5	108	54	19.00	18.17			2.090	2.530	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	376500	1882.5	216	0	19.00	18.17			2.110	2.554	48
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	376500	1882.5	1	1	19.00	18.27			0.498	0.589	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	376500	1882.5	108	54	19.00	18.17			0.528	0.639	
Ant.B	Extremity	CP-OFDM QPSK	0	Bottom	376500	1882.5	1	1	19.00	18.40			2.050	2.354	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	376500	1882.5	1	1	21.00	19.87	0.428	0.555			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	376500	1882.5	108	54	21.00	19.78	0.429	0.568			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	376500	1882.5	1	1	21.00	19.87	0.281	0.365			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	376500	1882.5	108	54	21.00	19.78	0.279	0.369			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	376500	1882.5	1	1	21.00	19.87	0.468	0.607			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	376500	1882.5	108	54	21.00	19.78	0.476	0.630			49
Ant.E	Body	CP-OFDM QPSK	10	Top	376500	1882.5	1	1	21.00	19.92	0.452	0.580			
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	376500	1882.5	1	1	21.00	19.87			1.120	1.453	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	376500	1882.5	108	54	21.00	19.78			1.130	1.497	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	376500	1882.5	1	1	21.00	19.87			0.849	1.101	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	376500	1882.5	108	54	21.00	19.78			0.838	1.110	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	376500	1882.5	1	1	21.00	19.87			1.790	2.322	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	376500	1882.5	108	54	21.00	19.78			1.810	2.397	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	376500	1882.5	216	0	21.00	19.72			1.820	2.444	50
Ant.E	Extremity	CP-OFDM QPSK	0	Top	376500	1882.5	1	1	21.00	19.92			1.610	2.065	

Note(s):

CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.2.15. NR Band n66 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	349000	1745.0	1	1	20.00	19.50	0.376	0.422			
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	349000	1745.0	108	54	20.00	19.37	0.597	0.690			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	349000	1745.0	1	1	20.00	19.50	0.226	0.254			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	349000	1745.0	108	54	20.00	19.37	0.402	0.465			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	349000	1745.0	1	1	20.00	19.50	0.674	0.756			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	349000	1745.0	108	54	20.00	19.37	0.721	0.834			51
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	349000	1745.0	1	1	20.00	19.50	0.170	0.191			
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	349000	1745.0	108	54	20.00	19.37	0.187	0.216			
Ant.B	Body	CP-OFDM QPSK	10	Bottom	349000	1745.0	1	1	20.00	19.66	0.769	0.832			
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	349000	1745.0	1	1	20.00	19.50			1.150	1.290	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	349000	1745.0	108	54	20.00	19.37			1.310	1.515	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	349000	1745.0	1	1	20.00	19.50			1.220	1.369	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	349000	1745.0	108	54	20.00	19.37			1.330	1.538	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	349000	1745.0	1	1	20.00	19.50			2.280	2.558	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	349000	1745.0	108	54	20.00	19.37			2.470	2.856	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	349000	1745.0	216	0	20.00	19.38			2.570	2.964	52
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	349000	1745.0	1	1	20.00	19.50			0.394	0.442	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	349000	1745.0	108	54	20.00	19.37			0.448	0.518	
Ant.B	Extremity	CP-OFDM QPSK	0	Bottom	349000	1745.0	1	1	20.00	19.64			2.050	2.227	

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	349000	1745.0	1	1	21.00	19.84	0.537	0.701			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	349000	1745.0	108	54	21.00	19.71	0.491	0.661			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	349000	1745.0	1	1	21.00	19.84	0.288	0.376			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	349000	1745.0	108	54	21.00	19.71	0.265	0.357			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	349000	1745.0	1	1	21.00	19.84	0.636	0.831			53
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	349000	1745.0	108	54	21.00	19.71	0.570	0.767			
Ant.E	Body	CP-OFDM QPSK	10	Top	349000	1745.0	1	1	21.00	19.90	0.594	0.765			
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	349000	1745.0	1	1	21.00	19.84			1.080	1.411	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	349000	1745.0	108	54	21.00	19.71			1.050	1.413	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	349000	1745.0	1	1	21.00	19.84			0.981	1.281	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	349000	1745.0	108	54	21.00	19.71			0.903	1.215	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	349000	1745.0	1	1	21.00	19.84			1.670	2.181	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	349000	1745.0	108	54	21.00	19.71			1.650	2.221	54
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	349000	1745.0	216	0	21.00	19.77			1.660	2.203	
Ant.E	Standalone	CP-OFDM QPSK	0	Top	349000	1745.0	1	1	21.00	19.90			1.400	1.804	

Note(s):
 CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.2.16. NR Band n41 (100MHz Bandwidth)

Voice/data/SRS0 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	518598	2592.99	1	1	19.50	19.28	0.420	0.442			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	518598	2592.99	135	0	19.50	19.13	0.386	0.420			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	518598	2592.99	1	1	19.50	19.28	0.284	0.299			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	518598	2592.99	135	0	19.50	19.13	0.291	0.317			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	518598	2592.99	1	1	19.50	19.28	0.632	0.665			55
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	518598	2592.99	135	0	19.50	19.13	0.605	0.659			
Ant.E	Body	CP-OFDM QPSK	10	Top	518598	2593.00	1	1	19.50	19.47	0.584	0.588			
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	518598	2592.99	1	1	19.50	19.28			0.639	0.672	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	518598	2592.99	135	0	19.50	19.13			0.598	0.651	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	518598	2592.99	1	1	19.50	19.28			0.923	0.971	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	518598	2592.99	135	0	19.50	19.13			0.903	0.983	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	518598	2592.99	1	1	19.50	19.28			2.600	2.735	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	518598	2592.99	135	0	19.50	19.13			2.630	2.864	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	518598	2592.99	270	0	19.50	19.09			2.640	2.901	56
Ant.E	Extremity	CP-OFDM QPSK	0	Top	518598	2592.99	1	1	19.50	19.47			2.470	2.487	

Switching SRS1 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	CW	10	Top	518598	2592.99	1	1	19.50	19.43	0.651	0.662			
Ant.E	Extremity	CW	0	Top	518598	2592.99	1	1	19.50	19.43			2.490	2.530	

Switching Voice/data/SRS0 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	518598	2592.99	1	136	17.50	17.05	0.326	0.362			
Ant.B	Body	DFT-s-OFDM QPSK	10	Rear	518598	2592.99	135	0	17.50	17.05	0.306	0.339			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	518598	2592.99	1	136	17.50	17.05	0.249	0.276			
Ant.B	Body	DFT-s-OFDM QPSK	10	Front	518598	2592.99	135	0	17.50	17.05	0.244	0.271			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	518598	2592.99	1	136	17.50	17.05	0.630	0.699			
Ant.B	Body	DFT-s-OFDM QPSK	10	Bottom	518598	2592.99	135	0	17.50	17.05	0.621	0.689			
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	518598	2592.99	1	136	17.50	17.05	0.113	0.125			
Ant.B	Body	DFT-s-OFDM QPSK	10	Right	518598	2592.99	135	0	17.50	17.05	0.076	0.084			
Ant.B	Body	CP-OFDM QPSK	10	Bottom	518598	2593.00	1	1	17.50	17.11	0.651	0.712			57
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	518598	2592.99	1	136	17.50	17.05			0.973	1.079	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Rear	518598	2592.99	135	0	17.50	17.05			0.905	1.004	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	518598	2592.99	1	136	17.50	17.05			0.809	0.897	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Front	518598	2592.99	135	0	17.50	17.05			0.788	0.874	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	518598	2592.99	1	136	17.50	17.05			2.090	2.318	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	518598	2592.99	135	0	17.50	17.05			2.210	2.451	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Bottom	518598	2592.99	270	0	17.50	17.11			2.350	2.571	58
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	518598	2592.99	1	136	17.50	17.05			0.205	0.227	
Ant.B	Extremity	DFT-s-OFDM QPSK	0	Right	518598	2592.99	135	0	17.50	17.05			0.171	0.190	
Ant.B	Extremity	CP-OFDM QPSK	0	Bottom	518598	2593.00	1	1	17.50	17.11			2.110	2.308	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n41 tested using FTM mode.
3. SRS1 SAR test performed at worst configuration at SRS0 test result of each RF exposure conditions.

NR Band n41 (100MHz Bandwidth) (Continued)

SRS1 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.B	Body	CW	10	Bottom	518598	2592.99	1	1	17.50	17.01	0.597	0.668			
Ant.B	Extremity	CW	0	Bottom	518598	2592.99	1	1	17.50	17.01			2.180	2.440	

SRS2 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.G	Body	CW	10	Rear	518598	2592.99	1	1	13.00	12.39	0.025	0.029			
Ant.G	Body	CW	10	Front	518598	2592.99	1	1	13.00	12.39	0.017	0.019			
Ant.G	Body	CW	10	Right	518598	2592.99	1	1	13.00	12.39	0.031	0.036			
Ant.G	Extremity	CW	0	Rear	518598	2592.99	1	1	13.00	12.39			0.071	0.082	
Ant.G	Extremity	CW	0	Front	518598	2592.99	1	1	13.00	12.39			0.134	0.154	
Ant.G	Extremity	CW	0	Right	518598	2592.99	1	1	13.00	12.39			0.107	0.123	

SRS3 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.C	Body	CW	10	Rear	518598	2592.99	1	1	13.00	12.54	0.029	0.032			
Ant.C	Body	CW	10	Front	518598	2592.99	1	1	13.00	12.54	0.021	0.023			
Ant.C	Body	CW	10	Bottom	518598	2592.99	1	1	13.00	12.54	0.048	0.053			59
Ant.C	Extremity	CW	0	Rear	518598	2592.99	1	1	13.00	12.54			0.140	0.156	60
Ant.C	Extremity	CW	0	Front	518598	2592.99	1	1	13.00	12.54			0.093	0.104	
Ant.C	Extremity	CW	0	Bottom	518598	2592.99	1	1	13.00	12.54			0.127	0.141	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n41 tested using FTM mode.
3. SRS1 SAR test performed at worst configuration at SRS0 test result of each RF exposure conditions.

10.2.17. NR Band n77 (100MHz Bandwidth)

Voice/data/SRS0 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	650000	3750.00	1	1	18.50	18.13	0.566	0.616			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	650000	3750.00	135	69	18.50	18.22	0.561	0.598			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	662000	3930.00	1	1	18.50	18.39	0.451	0.463			
Ant.E	Body	DFT-s-OFDM QPSK	10	Rear	662000	3930.00	135	69	18.50	18.32	0.435	0.453			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	662000	3930.00	1	1	18.50	18.39	0.262	0.269			
Ant.E	Body	DFT-s-OFDM QPSK	10	Front	662000	3930.00	135	69	18.50	18.32	0.303	0.316			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	633334	3500.01	1	1	18.50	18.47	0.513	0.517			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	650000	3750.00	1	1	18.50	18.13	0.556	0.605			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	650000	3750.00	135	69	18.50	18.22	0.595	0.635			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	662000	3930.00	1	1	18.50	18.39	0.743	0.762			
Ant.E	Body	DFT-s-OFDM QPSK	10	Top	662000	3930.00	135	69	18.50	18.32	0.744	0.775			61
Ant.E	Body	CP-OFDM QPSK	10	Top	662000	3930.00	1	1	18.50	18.39	0.592	0.607			
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	650000	3750.00	1	1	18.50	18.13			0.809	0.881	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	650000	3750.00	135	69	18.50	18.22			1.070	1.141	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	662000	3930.00	1	1	18.50	18.39			1.150	1.179	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Rear	662000	3930.00	135	69	18.50	18.32			1.590	1.657	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	650000	3750.00	1	1	18.50	18.13			1.240	1.350	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	650000	3750.00	135	69	18.50	18.22			1.220	1.301	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	662000	3930.00	1	1	18.50	18.39			1.210	1.241	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Front	662000	3930.00	135	69	18.50	18.32			1.210	1.261	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	633334	3500.01	1	1	18.50	18.47			2.650	2.668	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	650000	3750.00	1	1	18.50	18.13			2.420	2.635	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	650000	3750.00	135	69	18.50	18.22			2.710	2.890	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	662000	3930.00	1	1	18.50	18.39			2.820	2.892	
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	662000	3930.00	135	69	18.50	18.32			2.840	2.960	62
Ant.E	Extremity	DFT-s-OFDM QPSK	0	Top	662000	3930.00	270	0	18.50	18.38			2.640	2.714	
Ant.E	Extremity	CP-OFDM QPSK	0	Top	662000	3930.00	1	1	18.50	18.39			2.580	2.646	

Note(s):

1. NR Band-Dod n77 are tested at worst configuration of NR Band n77 band.
2. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
3. NR Band n77 tested using FTM mode.

NR Band n77 (100MHz Bandwidth) (Continued)

(SRS1) SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.C	Body	CW	10	Rear	650000	3750.00	1	1	15.00	14.69	0.056	0.060			
Ant.C	Body	CW	10	Front	650000	3750.00	1	1	15.00	14.69	0.053	0.057			
Ant.C	Body	CW	10	Bottom	633334	3500.01	1	1	15.00	13.69	0.092	0.125			
Ant.C	Body	CW	10	Bottom	650000	3750.00	1	1	15.00	14.69	0.095	0.102			
Ant.C	Extremity	CW	0	Rear	633334	3500.01	1	1	15.00	13.69			0.414	0.560	
Ant.C	Extremity	CW	0	Rear	650000	3750.00	1	1	15.00	14.69			0.403	0.433	
Ant.C	Extremity	CW	0	Front	650000	3750.00	1	1	15.00	14.69			0.268	0.288	
Ant.C	Extremity	CW	0	Bottom	633334	3500.01	1	1	15.00	13.69			0.532	0.719	
Ant.C	Extremity	CW	0	Bottom	650000	3750.00	1	1	15.00	14.69			0.425	0.456	

SRS2 SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.F	Body	CW	10	Rear	633334	3500.01	1	1	15.00	14.61	0.168	0.184			
Ant.F	Body	CW	10	Rear	662000	3930.00	1	1	15.00	14.75	0.321	0.340			63
Ant.F	Body	CW	10	Front	662000	3930.00	1	1	15.00	14.75	0.123	0.130			
Ant.F	Body	CW	10	Top	662000	3930.00	1	1	15.00	14.75	0.165	0.175			
Ant.F	Body	CW	10	Right	662000	3930.00	1	1	15.00	14.75	0.018	0.019			
Ant.F	Extremity	CW	0	Rear	633334	3500.01	1	1	15.00	14.61			0.623	0.682	
Ant.F	Extremity	CW	0	Rear	662000	3930.00	1	1	15.00	14.75			0.614	0.650	
Ant.F	Extremity	CW	0	Front	633334	3500.01	1	1	15.00	14.61			0.318	0.348	
Ant.F	Extremity	CW	0	Top	633334	3500.01	1	1	15.00	14.61			0.708	0.775	
Ant.F	Extremity	CW	0	Top	662000	3930.00	1	1	15.00	14.75			0.636	0.674	
Ant.F	Extremity	CW	0	Right	662000	3930.00	1	1	15.00	14.75			0.046	0.049	

(SRS3) SAR Results

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.A	Body	CW	10	Rear	650000	3750.00	1	1	15.00	14.41	0.105	0.120			
Ant.A	Body	CW	10	Front	650000	3750.00	1	1	15.00	14.41	0.094	0.107			
Ant.A	Body	CW	10	Bottom	650000	3750.00	1	1	15.00	14.41	0.143	0.164			
Ant.A	Body	CW	10	Right	633334	3500.01	1	1	15.00	14.87	0.155	0.160			
Ant.A	Body	CW	10	Right	650000	3750.00	1	1	15.00	14.41	0.162	0.186			
Ant.A	Extremity	CW	0	Rear	650000	3750.00	1	1	15.00	14.41			0.183	0.210	
Ant.A	Extremity	CW	0	Front	633334	3500.01	1	1	15.00	14.87			0.267	0.275	
Ant.A	Extremity	CW	0	Front	650000	3750.00	1	1	15.00	14.41			0.478	0.548	
Ant.A	Extremity	CW	0	Bottom	633334	3500.01	1	1	15.00	14.87			0.796	0.820	64
Ant.A	Extremity	CW	0	Bottom	650000	3750.00	1	1	15.00	14.41			0.654	0.749	
Ant.A	Extremity	CW	0	Right	633334	3500.01	1	1	15.00	14.87			0.331	0.341	
Ant.A	Extremity	CW	0	Right	650000	3750.00	1	1	15.00	14.41			0.361	0.414	

Note(s):

1. NR Band-Dod n77 are tested at worst configuration of NR Band n77 band.
2. NR Band n77 tested using FTM mode.

10.2.18. Wi-Fi (DTS Band)

DTS SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11b 1Mbps	DSIO	10	Rear	1	2412.0	0.467	98.8	18.00	17.520	0.349	0.395				
Ant.G	Body	802.11b 1Mbps	DSIO	10	Front	1	2412.0	0.199	98.8	18.00	17.520	0.132	0.149				4
Ant.G	Body	802.11b 1Mbps	DSIO	10	Right	1	2412.0	0.314	98.8	18.00	17.520	0.177	0.200				4
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Rear	1	2412.0	1.462	98.8	18.00	17.520			0.415	0.469		4
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Front	1	2412.0	1.951	98.8	18.00	17.520			0.537	0.607		
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Right	1	2412.0	4.969	98.8	18.00	17.520			0.915	1.034		

DTS SISO Ant.F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.F	Body	802.11b 1Mbps	DSIO	10	Rear	1	2412.0	0.541	98.8	18.00	16.93	0.317	0.410				
Ant.F	Body	802.11b 1Mbps	DSIO	10	Front	1	2412.0	0.168	98.8	18.00	16.93	0.101	0.131				4
Ant.F	Body	802.11b 1Mbps	DSIO	10	Top	1	2412.0	0.430	98.8	18.00	16.93	0.337	0.436				65
Ant.F	Body	802.11b 1Mbps	DSIO	10	Right	1	2412.0	0.076	98.8	18.00	16.93	0.054	0.070				4
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Rear	1	2412.0	2.151	98.8	18.00	16.93			0.565	0.732		
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Front	1	2412.0	1.809	98.8	18.00	16.93			0.453	0.587		4
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Top	1	2412.0	5.093	98.80	18.00	16.93			1.500	1.942		66
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Right	1	2412.0	0.350	98.80	18.00	16.93			0.101	0.131		4

DTS MIMO Ant.G+F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11b 1Mbps	DSIO	10	Rear	1	2412.0	0.608	98.8	18.00	17.43						
Ant.G	Body	802.11b 1Mbps	DSIO	10	Front	1	2412.0	0.170	98.8	18.00	17.43						
Ant.G	Body	802.11b 1Mbps	DSIO	10	Top	1	2412.0	0.196	98.8	18.00	17.43						
Ant.G	Body	802.11b 1Mbps	DSIO	10	Right	1	2402.0	0.151	98.8	18.00	17.43	0.083	0.096				4
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Rear	1	2402.0	1.559	98.8	18.00	17.43						
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Front	1	2402.0	2.941	98.8	18.00	17.43			0.510	0.589		4
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Top	1	2402.0	1.634	98.8	18.00	17.43						
Ant.G	Extremity	802.11b 1Mbps	DSIO	0	Right	1	2402.0	3.648	98.8	18.00	17.43						
Ant.F	Body	802.11b 1Mbps	DSIO	10	Rear	1	2412.0	0.608	98.8	18.00	16.82	0.424	0.563				67
Ant.F	Body	802.11b 1Mbps	DSIO	10	Front	1	2412.0	0.170	98.8	18.00	16.82	0.105	0.139				4
Ant.F	Body	802.11b 1Mbps	DSIO	10	Top	1	2412.0	0.196	98.8	18.00	16.82	0.125	0.166				
Ant.F	Body	802.11b 1Mbps	DSIO	10	Right	1	2402.0	0.151	98.8	18.00	16.82	0.074	0.099				4
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Rear	1	2402.0	1.559	98.8	18.00	16.82			0.486	0.645		4
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Front	1	2402.0	2.941	98.8	18.00	16.82						
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Top	1	2402.0	1.634	98.8	18.00	16.82			0.522	0.693		4
Ant.F	Extremity	802.11b 1Mbps	DSIO	0	Right	1	2402.0	3.648	98.8	18.00	16.82			0.557	0.740		68

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

10.2.19. Wi-Fi (U-NII Bands)

U-NII 2A SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11n (HT40)	DSIO	10	Rear	54	5270.0	0.617	98.2	18.00	16.91	0.266	0.348			4	
Ant.G	Body	802.11n (HT40)	DSIO	10	Front	54	5270.0	0.824	98.2	18.00	16.91	0.385	0.504				
Ant.G	Body	802.11n (HT40)	DSIO	10	Right	54	5270.0	0.828	98.2	18.00	16.91	0.361	0.473				
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Rear	54	5270.0	3.030	98.2	18.00	16.91			0.398	0.521	4	
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Front	54	5270.0	5.750	98.2	18.00	16.91			0.708	0.927		
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Right	54	5270.0	11.600	98.2	18.00	16.91			0.807	1.056		69

U-NII 2A SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Body	802.11n (HT40)	DSIO	10	Rear	54	5270.0	0.686	98.2	18.00	17.70	0.322	0.351			4	
Ant.D	Body	802.11n (HT40)	DSIO	10	Front	54	5270.0	0.449	98.2	18.00	17.70	0.225	0.246			4	
Ant.D	Body	802.11n (HT40)	DSIO	10	Top	54	5270.0	0.288	98.2	18.00	17.70					1	
Ant.D	Body	802.11n (HT40)	DSIO	10	Right	54	5270.0	0.882	98.2	18.00	17.70	0.457	0.499				70
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Rear	54	5270.0	1.450	98.2	18.00	17.70			0.243	0.265	4	
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Front	54	5270.0	3.040	98.2	18.00	17.70			0.433	0.473	4	
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Top	54	5270.0	5.350	98.2	18.00	17.70					1	
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Right	54	5270.0	12.700	98.20	18.00	17.70			0.864	0.943		

U-NII 2A MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11n (HT40)	DSIO	10	Rear	54	5270.0	1.050	98.2	18.00	17.10	0.417	0.457			4	
Ant.G	Body	802.11n (HT40)	DSIO	10	Front	54	5270.0	1.430	98.2	18.00	17.10	0.590	0.647				71
Ant.G	Body	802.11n (HT40)	DSIO	10	Top	54	5270.0	0.455	98.2	18.00	17.10					1	
Ant.G	Body	802.11n (HT40)	DSIO	10	Right	54	5270.0	1.290	98.2	18.00	17.10	0.561	0.615				
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Rear	54	5270.0	4.580	98.2	18.00	17.10			0.598	0.716	4	
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Front	54	5270.0	7.040	98.2	18.00	17.10			0.851	1.018		
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Top	54	5270.0	8.550	98.2	18.00	17.10					1	
Ant.G	Extremity	802.11n (HT40)	DSIO	0	Right	54	5270.0	15.400	98.2	18.00	17.10			1.080	1.292		72
Ant.D	Body	802.11n (HT40)	DSIO	10	Rear	54	5270.0	1.050	98.2	18.00	17.70	0.560	0.611				
Ant.D	Body	802.11n (HT40)	DSIO	10	Front	54	5270.0	1.430	98.2	18.00	17.70	0.563	0.614				
Ant.D	Body	802.11n (HT40)	DSIO	10	Top	54	5270.0	0.455	98.2	18.00	17.70					1	
Ant.D	Body	802.11n (HT40)	DSIO	10	Right	54	5270.0	1.290	98.2	18.00	17.70						
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Rear	54	5270.0	4.580	98.2	18.00	17.70			0.616	0.672	4	
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Front	54	5270.0	7.040	98.2	18.00	17.70			0.623	0.680		
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Top	54	5270.0	8.550	98.2	18.00	17.70			0.841	0.918		
Ant.D	Extremity	802.11n (HT40)	DSIO	0	Right	54	5270.0	15.400	98.2	18.00	17.70						

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

Wi-Fi (U-NII Bands) (Continued)
U-NII 2C SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11ac MCSO	DSIO	10	Rear	122	5610.0	0.579	94.4	18.00	17.41	0.255	0.309			4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Front	122	5610.0	0.756	94.4	18.00	17.41	0.305	0.370				73
Ant.G	Body	802.11ac MCSO	DSIO	10	Right	122	5610.0	0.661	94.4	18.00	17.41	0.293	0.355			4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	122	5610.0	2.230	94.4	18.00	17.41			0.296	0.359	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	122	5610.0	8.340	94.4	18.00	17.41			0.906	1.099		
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	122	5610.0	13.000	94.4	18.00	17.41			0.966	1.172		74

U-NII 2C SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Note
Ant.F	Body	802.11ac MCSO	DSIO	10	Rear	122	5610.0	0.610	94.4	18.00	17.73	0.260	0.293			4	
Ant.F	Body	802.11ac MCSO	DSIO	10	Front	122	5610.0	0.501	94.4	18.00	17.73						1
Ant.F	Body	802.11ac MCSO	DSIO	10	Top	122	5610.0	0.670	94.4	18.00	17.73	0.309	0.348				
Ant.F	Body	802.11ac MCSO	DSIO	10	Right	122	5610.0	0.577	94.4	18.00	17.73	0.249	0.281			4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Rear	122	5610.0	3.090	94.4	18.00	17.73			0.373	0.420	4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Front	122	5610.0	4.350	94.4	18.00	17.73			0.669	0.754	4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Top	122	5610.0	8.220	94.4	18.00	17.73			0.781	0.880		
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Right	122	5610.0	4.070	94.4	18.00	17.73			0.382	0.430	4	

U-NII 2C MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11ac MCSO	DSIO	10	Rear	122	5610.0	1.010	94.4	18.00	17.33	0.268	0.331				
Ant.G	Body	802.11ac MCSO	DSIO	10	Front	122	5610.0	0.894	94.4	18.00	17.33	0.416	0.514			4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Top	122	5610.0	0.853	94.4	18.00	17.33					4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Right	122	5610.0	1.130	94.4	18.00	17.33	0.434	0.536				75
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	122	5610.0	3.520	94.4	18.00	17.33			0.444	0.549	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	122	5610.0	17.000	94.4	18.00	17.33			1.240	1.532		76
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Top	122	5610.0	9.600	94.4	18.00	17.33					4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	122	5610.0	15.000	94.4	18.00	17.33			1.090	1.347		
Ant.D	Body	802.11ac MCSO	DSIO	10	Rear	122	5610.0	1.010	94.4	18.00	17.61	0.438	0.507				
Ant.D	Body	802.11ac MCSO	DSIO	10	Front	122	5610.0	0.894	94.4	18.00	17.61	0.399	0.462			4	
Ant.D	Body	802.11ac MCSO	DSIO	10	Top	122	5610.0	0.853	94.4	18.00	17.61	0.335	0.388			4	
Ant.D	Body	802.11ac MCSO	DSIO	10	Right	122	5610.0	1.130	94.4	18.00	17.61						
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Rear	122	5610.0	3.520	94.4	18.00	17.61			0.426	0.494		
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Front	122	5610.0	17.000	94.4	18.00	17.61						
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Top	122	5610.0	9.600	94.4	18.00	17.61			0.957	1.109	4	
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Right	122	5610.0	15.000	94.4	18.00	17.61						

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

Wi-Fi (U-NII Bands) (Continued)

U-NII 3 SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
								Max. SAR (W/kg)									
Ant.G	Body	802.11ac MCSO	DSIO	10	Rear	155	5775.0	0.462	94.4	18.00	17.36	0.160	0.196			4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Front	155	5775.0	0.478	94.4	18.00	17.36	0.228	0.280			4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Right	155	5775.0	0.621	94.4	18.00	17.36	0.316	0.388				77
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	155	5775.0	2.820	94.4	18.00	17.36			0.446	0.547	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	155	5775.0	13.000	94.4	18.00	17.36			1.040	1.276		
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	155	5775.0	12.300	94.4	18.00	17.36			1.090	1.338		78

U-NII 3 SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
								Max. SAR (W/kg)									
Ant.F	Body	802.11a 6Mbps	DSIO	10	Rear	155	5775.0	0.503	94.4	18.00	17.77	0.232	0.259			4	
Ant.F	Body	802.11a 6Mbps	DSIO	10	Front	155	5775.0	0.495	94.4	18.00	17.77	0.197	0.220			4	
Ant.F	Body	802.11a 6Mbps	DSIO	10	Top	155	5775.0	0.595	94.4	18.00	17.77	0.223	0.249				
Ant.F	Body	802.11a 6Mbps	DSIO	10	Right	155	5775.0	0.402	94.4	18.00	17.77	0.166	0.185			4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Rear	155	5775.0	3.300	94.4	18.00	17.77			0.401	0.448	4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Front	155	5775.0	5.240	94.4	18.00	17.77			0.642	0.717	4	
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Top	155	5775.0	6.630	94.4	18.00	17.77			0.674	0.753		
Ant.F	Extremity	802.11ac MCSO	DSIO	0	Right	155	5775.0	2.060	94.4	18.00	17.77			0.226	0.252	4	

U-NII 3 MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
								Max. SAR (W/kg)									
Ant.G	Body	802.11a 6Mbps	DSIO	10	Rear	155	5775.0	0.942	94.4	18.00	17.27	0.290	0.363			4	
Ant.G	Body	802.11a 6Mbps	DSIO	10	Front	155	5775.0	0.952	94.4	18.00	17.27	0.354	0.443			4	
Ant.G	Body	802.11a 6Mbps	DSIO	10	Top	155	5775.0	0.677	94.4	18.00	17.27					1	
Ant.G	Body	802.11a 6Mbps	DSIO	10	Right	155	5775.0	1.080	94.4	18.00	17.27	0.476	0.596				79
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	155	5775.0	4.650	94.4	18.00	17.27			0.475	0.595	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	155	5775.0	15.600	94.4	18.00	17.27			1.240	1.553		80
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Top	155	5775.0	9.410	94.4	18.00	17.27					4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	155	5775.0	16.300	94.4	18.00	17.27			1.190	1.491		
Ant.D	Body	802.11a 6Mbps	DSIO	10	Rear	155	5775.0	0.688	94.4	18.00	17.66	0.420	0.481			4	
Ant.D	Body	802.11a 6Mbps	DSIO	10	Front	155	5775.0	0.952	94.4	18.00	17.66	0.399	0.457			4	
Ant.D	Body	802.11a 6Mbps	DSIO	10	Top	155	5775.0	0.677	94.4	18.00	17.66					1	
Ant.D	Body	802.11a 6Mbps	DSIO	10	Right	155	5775.0	1.080	94.4	18.00	17.66						
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Rear	155	5775.0	4.650	94.4	18.00	17.66			0.602	0.689	4	
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Front	155	5775.0	15.600	94.4	18.00	17.66						
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Top	155	5775.0	9.410	94.4	18.00	17.66			0.860	0.985	4	
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Right	155	5775.0	16.300	94.4	18.00	17.66						

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

Wi-Fi (U-NII Bands) (Continued)
U-NII 4 SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11ac MCSO	DSIO	10	Rear	171	5855.0	0.450	94.4	18.00	17.41	0.183	0.222			4	
Ant.G	Body	802.11ac MCSO	DSIO	10	Front	171	5855.0	0.572	94.4	18.00	17.41	0.233	0.283				
Ant.G	Body	802.11ac MCSO	DSIO	10	Right	171	5855.0	0.834	94.4	18.00	17.41	0.354	0.429				81
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	171	5855.0	3.650	94.4	18.00	17.41			0.455	0.552	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	171	5855.0	10.900	94.4	18.00	17.41			0.882	1.070		
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	171	5855.0	18.200	94.4	18.00	17.41			1.080	1.310		82

U-NII 4 SISO Ant.D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Body	802.11ac MCSO	DSIO	10	Rear	171	5855.0	0.615	94.4	18.00	17.52	0.299	0.354			4	
Ant.D	Body	802.11ac MCSO	DSIO	10	Front	171	5855.0	0.735	94.4	18.00	17.52	0.292	0.345			4	
Ant.D	Body	802.11ac MCSO	DSIO	10	Top	171	5855.0	0.643	94.4	18.00	17.52	0.297	0.351				
Ant.D	Body	802.11ac MCSO	DSIO	10	Right	171	5855.0	0.341	94.4	18.00	17.52	0.135	0.160				
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Rear	171	5855.0	2.984	94.4	18.00	17.52			0.383	0.453	4	
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Front	171	5855.0	9.551	94.4	18.00	17.52			0.983	1.163		
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Top	171	5855.0	8.040	94.40	18.00	17.52			0.835	0.988		
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Right	171	5855.0	2.414	94.40	18.00	17.52			0.242	0.286	4	

U-NII 4 MIMO Ant.G+D SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.G	Body	802.11ac MCSO	DSIO	10	Rear	171	5855.0	0.804	94.4	18.00	17.27						
Ant.G	Body	802.11ac MCSO	DSIO	10	Front	171	5855.0	0.952	94.4	18.00	17.27	0.335	0.420				
Ant.G	Body	802.11ac MCSO	DSIO	10	Top	171	5855.0	0.798	94.4	18.00	17.27						1
Ant.G	Body	802.11ac MCSO	DSIO	10	Right	171	5855.0	0.799	94.4	18.00	17.27	0.358	0.449				4
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Rear	171	5855.0	3.550	94.4	18.00	17.27			0.417	0.522	4	
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Front	171	5855.0	7.460	94.4	18.00	17.27			1.000	1.253		
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Top	171	5855.0	6.010	94.4	18.00	17.27						1
Ant.G	Extremity	802.11ac MCSO	DSIO	0	Right	171	5855.0	16.600	94.4	18.00	17.27			1.030	1.290		83
Ant.D	Body	802.11ac MCSO	DSIO	10	Rear	171	5855.0	0.804	94.4	18.00	17.39	0.365	0.445				
Ant.D	Body	802.11ac MCSO	DSIO	10	Front	171	5855.0	0.952	94.4	18.00	17.39	0.422	0.514				84
Ant.D	Body	802.11ac MCSO	DSIO	10	Top	171	5855.0	0.798	94.4	18.00	17.39						1
Ant.D	Body	802.11ac MCSO	DSIO	10	Right	171	5855.0	0.799	94.4	18.00	17.39						4
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Rear	171	5855.0	3.550	94.4	18.00	17.39			0.477	0.581	4	
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Front	171	5855.0	7.460	94.4	18.00	17.39			0.908	1.107		
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Top	171	5855.0	6.010	94.4	18.00	17.39						1
Ant.D	Extremity	802.11ac MCSO	DSIO	0	Right	171	5855.0	16.600	94.4	18.00	17.39						

Note(s):

- When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
- Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
- Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively).
- Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

10.2.20. Bluetooth

Bluetooth SISO Ant.G SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.G	Body	LE 1M 255pkt	DSIO	10	Rear	0	2402.0	85.4	19.50	18.88	0.188	0.221			
Ant.G	Body	LE 1M 255pkt	DSIO	10	Front	0	2402.0	85.4	19.50	18.88	0.203	0.238			
Ant.G	Body	LE 1M 255pkt	DSIO	10	Right	0	2402.0	85.4	19.50	18.88	0.279	0.328			
Ant.G	Extremity	LE 1M 255pkt	DSIO	0	Rear	0	2402.0	85.4	19.50	18.88			0.373	0.438	
Ant.G	Extremity	LE 1M 255pkt	DSIO	0	Front	0	2402.0	85.4	19.50	18.88			0.910	1.069	
Ant.G	Extremity	LE 1M 255pkt	DSIO	0	Right	0	2402.0	85.4	19.50	18.88			0.612	0.719	

Bluetooth SISO Ant.F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.F	Body	LE 1M 255pkt	DSIO	10	Rear	19	2440.0	85.4	19.50	18.93	0.325	0.378			
Ant.F	Body	LE 1M 255pkt	DSIO	10	Front	19	2440.0	85.4	19.50	18.93	0.119	0.138			
Ant.F	Body	LE 1M 255pkt	DSIO	10	Top	19	2440.0	85.4	19.50	18.93	0.403	0.468			85
Ant.F	Body	LE 1M 255pkt	DSIO	10	Right	19	2440.0	85.4	19.50	18.93	0.049	0.057			
Ant.F	Extremity	LE 1M 255pkt	DSIO	0	Rear	19	2440.0	85.4	19.50	18.93			0.773	0.899	
Ant.F	Extremity	LE 1M 255pkt	DSIO	0	Front	19	2440.0	85.4	19.50	18.93			0.573	0.666	
Ant.F	Extremity	LE 1M 255pkt	DSIO	0	Top	19	2440.0	85.4	19.50	18.93			1.670	1.941	86
Ant.F	Extremity	LE 1M 255pkt	DSIO	0	Right	19	2440.0	85.4	19.50	18.93			0.088	0.103	

Bluetooth MIMO Ant.G+F SAR results

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Plot No.
Ant.G	Body	GFSK DHS	DSIO	10	Rear	39	2441.0	77.1	15.50	14.73					
Ant.G	Body	GFSK DHS	DSIO	10	Front	39	2441.0	77.1	15.50	14.73	0.049	0.060			
Ant.G	Body	GFSK DHS	DSIO	10	Top	39	2441.0	77.1	15.50	14.73					
Ant.G	Body	GFSK DHS	DSIO	10	Right	39	2441.0	77.1	15.50	14.73	0.055	0.068			
Ant.G	Extremity	GFSK DHS	DSIO	0	Rear	39	2441.0	77.1	15.50	14.73					
Ant.G	Extremity	GFSK DHS	DSIO	0	Front	39	2441.0	77.1	15.50	14.73			0.163	0.199	
Ant.G	Extremity	GFSK DHS	DSIO	0	Top	39	2441.0	77.1	15.50	14.73					
Ant.G	Extremity	GFSK DHS	DSIO	0	Right	39	2441.0	77.1	15.50	14.73			0.166	0.203	
Ant.F	Body	GFSK DHS	DSIO	10	Rear	39	2441.0	77.1	15.50	14.90	0.147	0.173			87
Ant.F	Body	GFSK DHS	DSIO	10	Front	39	2441.0	77.1	15.50	14.90	0.063	0.075			
Ant.F	Body	GFSK DHS	DSIO	10	Top	39	2441.0	77.1	15.50	14.90	0.120	0.141			
Ant.F	Body	GFSK DHS	DSIO	10	Right	39	2441.0	77.1	15.50	14.90					
Ant.F	Extremity	GFSK DHS	DSIO	0	Rear	39	2441.0	77.1	15.50	14.90			0.205	0.241	
Ant.F	Extremity	GFSK DHS	DSIO	0	Front	39	2441.0	77.1	15.50	14.90			0.122	0.144	
Ant.F	Extremity	GFSK DHS	DSIO	0	Top	39	2441.0	77.1	15.50	14.90			0.556	0.655	88
Ant.F	Extremity	GFSK DHS	DSIO	0	Right	39	2441.0	77.1	15.50	14.90					

10.2.21. NFC

Antenna	Frequency Band	RF Exposure Conditions	Dist. (mm)	Test Position	Test setup		Freq. (MHz)	10-g SAR (W/kg)	Plot No.
					Type	Bitrate		Meas.	
NFC	PBRS	Extremity 10-g	0	Rear	A	106	13.6	0.012	89
NFC	PBRS	Extremity 10-g	0	Front	A	212	13.6	<0.001	
NFC	PBRS	Extremity 10-g	0	Top	A	212	13.6	<0.001	

11. SAR Measurement Variability

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

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

Peak spatial-average (1g of tissue)

Frequency Band (MHz)	Air Interface	Antenna	DUT Configuration	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1700	WCDMA Band IV	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.818	0.816	1.00
	LTE Band 66	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.836	0.830	1.01
1900	WCDMA Band II	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.994	0.988	1.01
	LTE Band 25	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.902	0.901	1.00
	NR Band n25	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.800	0.800	1.00
2600	LTE Band 41	Ant.B	Folder Closed	Hotspot	Bottom	Yes	1.070	1.050	1.02
	NR Band n41	Ant.B	Folder Closed	Hotspot	Bottom	Yes	0.956	0.924	1.03

Peak spatial-average (10g of tissue)

Frequency Band (MHz)	Air Interface	Antenna	DUT Configuration	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1700	WCDMA Band IV	Ant..B	Folder Opened	Extremity 10-g	Bottom	Yes	2.540	2.450	1.04
	LTE Band 66	Ant..B	Folder Opened	Extremity 10-g	Bottom	Yes	2.530	2.530	1.00
	NR Band n66	Ant..B	Folder Opened	Extremity 10-g	Bottom	Yes	2.570	2.480	1.04
1900	GSM 1900	Ant.B	Folder Opened	Extremity 10-g	Bottom	Yes	2.020	1.860	1.09
	WCDMA Band II	Ant.B	Folder Opened	Extremity 10-g	Bottom	Yes	2.650	2.650	1.00
	LTE Band 2	Ant.B	Folder Opened	Extremity 10-g	Bottom	Yes	2.350	2.250	1.04
	NR Band n25	Ant.B	Folder Opened	Extremity 10-g	Bottom	Yes	2.140	2.080	1.03
2600	LTE Band 41	Ant.B	Folder Opened	Extremity 10-g	Bottom	Yes	2.370	2.300	1.03
	LTE Band 41	Ant.B	Folder Closed	Phablet specific 10-g SAR	Bottom	Yes	2.580	2.470	1.04
	NR Band n41	Ant.E	Folder Opened	Extremity 10-g	Top	Yes	2.640	2.620	1.01
	NR Band n41	Ant.B	Folder Opened	Extremity 10-g	Top	Yes	2.350	2.210	1.06
3000	NR Band n77	Ant.E	Folder Opened	Extremity 10-g	Top	Yes	2.840	2.400	1.18

Note(s):

1. In above table, Only some bands above 0.8 or 2.0 W/kg (1-g or 10-g Measured SAR) were listed.
2. 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 .

12. Simultaneous Transmission SAR Analysis

Simultaneous Transmission Condition

RF Exposure Condition	Item	Capable Transmit Configurations		
Folder Closed Head & Body-w orn/Hotspot & Phablet-10g Folder Opened Body & Extremity-10g	1	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	BT Ant.1 (Ant.G) or BT Ant.2 (Ant.D)
	2	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	BT MIMO (dual)
	3	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.1 (Ant.G) or DTS Ant.2 (Ant.D)
	4	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS MIMO
	5	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII Ant.1 (Ant.G) or UNII Ant.2 (Ant.F)
	6	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII MIMO
	7	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	BT Ant.1 (Ant.G) + DTS Ant.2 (Ant.D)
	8	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII Ant.1 (Ant.G) + BT Ant.1 (Ant.G) or BT Ant.2 (Ant.D)
	9	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII Ant.1 (Ant.G) + BT MIMO (dual)
	10	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII Ant.2 (Ant.F) + BT Ant.1 (Ant.G) or BT Ant.2 (Ant.D)
	11	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII Ant.2 (Ant.F) + BT MIMO (dual)
	12	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII MIMO + BT Ant.1 (Ant.G) or BT Ant.2 (Ant.D)
	13	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII MIMO + BT MIMO (dual)
	14	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.1 (Ant.G) + UNII Ant.1 (Ant.G) or UNII Ant.2 (Ant.F)
	15	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.2 (Ant.D) + UNII Ant.1 (Ant.G) or UNII Ant.2 (Ant.F)
	16	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS MIMO + UNII Ant.1 (Ant.G) or UNII Ant.2 (Ant.F)
	17	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	UNII MIMO + DTS Ant.1 (Ant.G) or DTS Ant.2 (Ant.D)
	18	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS MIMO + UNII MIMO
	19	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.2 (Ant.D) + UNII Ant.1 (Ant.G) + BT Ant.1 (Ant.G)
	20	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.2 (Ant.D) + UNII Ant.2 (Ant.F) + BT Ant.1 (Ant.G)
	21	WWAN (2G/3G/LTE/NR) or (ENDC/ULCA)	+	DTS Ant.2 (Ant.D) + UNII MIMO + BT Ant.1 (Ant.G)
	22	Item (1-21) + UWB + NFC in Pablet-10g or Extremity 10-g conditions		

Notes:

1. DTS supports Wi-Fi Direct, Hotspot and VoIP.
2. U-NII supports Wi-Fi Direct, Hotspot and VoIP.
3. GPRS, W-CDMA, LTE, NR supports Hotspot and VoIP
4. U-NII Radio can transmit simultaneously with Bluetooth Radio.
5. DTS Radio can transmit simultaneously with Bluetooth Radio.
6. RSDB support to both DTS & UNII bands.
7. NR Radio support to both SA and NSA(ENDC) Radio.
8. BT tethering is considered about each RF exposure conditions.
9. LTE supports UL CA configuration.
10. BT operates with RSDB for certain scenarios.
11. DTS/UNII/BT supports MIMO mode.

Note(s):

Qualcomm Smart Transmit algorithm support to WWAN/WLAN/BT except NFC/UWB. And This device has support two Antenna groups. Each antenna group has controls the total RF exposure from all transmitter to not exceed FCC limit. Therefore, in Part.1 report, it is evaluated whether the sum of the groups of each antenna does not exceed FCC limit or spatial separation is applied. In addition, each antenna group need to satisfies simultaneous transmission analysis with External radios (NFC and UWB) in Part.1 report.

For Qualcomm Smart Transmit algorithm verification of within same antenna group, please refer to the Part.2 test report.

TER analysis for AG0/AG1/ERs

The 2nd Generation phase V of Smart Transmit (GEN2.5) operates based on pre-defined antenna groups of Sub6 antennas. Sub6 Tx antennas in UE are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from the other AG. This is accomplished by demonstrating below conditions for all RF exposure scenarios (This procedures are follow according to Qualcomm’s document (80-W2112-4));

1. **(Condition#1 Sum of AG0/AG1/ERs)** : Demonstrate that the sum of maximum *adjusted* SAR from each of the sub6 AGs and the *adjusted* SAR values from radios outside Smart Transmit should be less than the regulatory limit for each supported DSI.
2. **(Condition#2 SPLSR(or Sum-SPLSR) of each pairs(AG0/AG1/ERs))** : If the condition#1 is not met for only Sub6 antennas, then for a given antenna and module grouping scheme plus external radios/antennas (ERs), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR (SAR to Peak Location Ratio) criteria for each supported DSI (each RF exposure scenarios). For a conservative assessment of SPLSR, the separation distance between each AGs were determined using only the y-axis coordinates of the peak locations.

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

For a conservative assessment of SPLSR in Head exposure condition, the y-axis coordinates of the peak locations was used based on the ERP of each Right and Left phantoms.

Note : Adjusted SAR;

- a. Adjusted SAR followed below procedures.
 Exposure scaling for su6 antennas/radios (referred to as ‘adjusted SAR’ values):
 If EFS Plimit =< NV setting Pax, then SAR exposure should be scaled to EFS Plimit + device uncertainty,
 else SAR exposure should be scaled to maximum {EFS Plimit, NV setting Pmax + device uncertainty}.

This device supports antenna groups like below table.

DSI No.	Antenna Groups	Grouped antenna list			
DSI= 0,1,2,3	AG0	Ant.A(Sub6)	Ant.A+B(Sub6)	Ant.B(Sub6)	Ant.C(Sub6)
	AG1	Ant.D(Sub6)	Ant.E(Sub6)	Ant.F(Sub6)	Ant.G(Sub6)
ER(s)		NFC Ant.	UWB Ant.		
ER = Exteral radios/antennas supported ourtside of Smart Transmit					

This section verifies that Simultaneous transmission analysis of AG0/AG1/ERs satisfies to FCC limit using Condition#1 or Condition#2 guide.

12.1. Folder Closed (Phablet) condition

12.1.1 Head(DSI=3) exposure SAR analysis

Condition#1 (Sum of SAR)

Antenna Group : AG0 Ant.A, Ant.A+B, Ant.B, Ant.C

AG0's Highest SAR results

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0
Antenna		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A
RF exposure	Test positions	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5		NR Bn77 (SRS3)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
		Plimit (dBm)	26.3	29.2	25.5	29.3	25.5	29.1	25.5	29.6	25.0	31.3	25.5	29.6	25.0	29.2	15.0	
Head Reported SAR	Left Touch	0.146	0.285	0.151	0.362	0.181	0.415	0.164	0.422	0.109	0.465	0.183	0.470	0.170	0.447	0.000	0.000	0.470
	Left Tilt	0.126	0.246	0.114	0.273	0.125	0.286	0.103	0.265	0.082	0.350	0.134	0.344	0.126	0.331	0.005	0.005	0.350
	Right Touch	0.091	0.177	0.188	0.451	0.232	0.531	0.197	0.506	0.115	0.491	0.209	0.537	0.190	0.500	0.000	0.000	0.537
	Right Tilt	0.054	0.105	0.126	0.302	0.137	0.314	0.106	0.272	0.084	0.358	0.144	0.370	0.124	0.326	0.000	0.000	0.370

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0
Antenna		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B
RF exposure	Test positions	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5		NR Bn77 (SRS3)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
		Plimit (dBm)	26.3	29.2	25.5	29.3	25.5	29.1	25.5	29.6	25.0	31.3	25.5	29.6	25.0	29.2		
Head Reported SAR	Left Touch	0.192	0.374	0.167	0.401	0.180	0.412	0.156	0.401	0.113	0.482	0.179	0.460	0.181	0.476			0.482
	Left Tilt	0.145	0.283	0.117	0.281	0.125	0.286	0.085	0.218	0.090	0.384	0.132	0.339	0.138	0.363			0.384
	Right Touch	0.271	0.528	0.224	0.537	0.232	0.531	0.206	0.530	0.124	0.529	0.209	0.537	0.203	0.534			0.537
	Right Tilt	0.187	0.365	0.139	0.333	0.175	0.401	0.145	0.373	0.106	0.452	0.136	0.350	0.126	0.331			0.452

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0
Antenna		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B
RF exposure	Test positions	GSM 1900		WCDMA B2		WCDMA B4		LTE B25		LTE B41		LTE B66		NR Bn25		NR Bn66		NR Bn41 (SRS1)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
		Plimit (dBm)	22.8	30.6	25.0	29.5	24.8	30.9	25.0	29.9	23.0	29.3	24.5	30.4	24.0	29.8	24.5	30.8	25.0	
Head Reported SAR	Left Touch	0.089	0.536	0.179	0.504	0.131	0.534	0.173	0.535	0.057	0.243	0.138	0.537	0.117	0.445	0.124	0.529	0.068	0.531	0.537
	Left Tilt	0.050	0.301	0.090	0.254	0.067	0.273	0.060	0.185	0.042	0.179	0.066	0.257	0.101	0.384	0.099	0.422	0.039	0.301	0.422
	Right Touch	0.082	0.494	0.189	0.533	0.132	0.538	0.151	0.467	0.125	0.533	0.092	0.358	0.139	0.528	0.113	0.482	0.059	0.460	0.538
	Right Tilt	0.061	0.368	0.126	0.355	0.080	0.326	0.114	0.352	0.021	0.090	0.091	0.354	0.108	0.411	0.114	0.486	0.046	0.354	0.486

Antenna Group		AG0		AG0		AG0
Antenna		Ant.C		Ant.C		Ant.C
RF exposure	Test positions	NR Bn77 (SRS1)		NR Bn41 (SRS3)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
		Plimit (dBm)	15.0	15.0	13.0	
Head Reported SAR	Left Touch	0.002	0.002	0.032	0.032	0.032
	Left Tilt	0.000	0.000	0.018	0.018	0.018
	Right Touch	0.000	0.000	0.008	0.008	0.008
	Right Tilt	0.000	0.000	0.018	0.018	0.018

Antenna Group : AG1 Ant.D, Ant.E, Ant.F, Ant.G, Ant.G+F, Ant.G+D

AG1's Highest SAR results

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1	
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D	
RF exposure	Test positions	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)
Head Reported SAR	Plimit (dBm)	26.3	34.8	25.5	31.0	25.5	32.8	25.5	31.6	25.0	28.0	25.5	33.1	25.0	32.4
	Left Touch	0.141	0.998	0.277	0.983	0.182	0.977	0.241	0.982	0.471	0.940	0.173	0.996	0.179	0.984
	Left Tilt	0.083	0.588	0.160	0.568	0.128	0.687	0.167	0.680	0.297	0.593	0.133	0.765	0.137	0.753
	Right Touch	0.065	0.460	0.123	0.436	0.105	0.564	0.126	0.513	0.038	0.076	0.101	0.581	0.086	0.473
	Right Tilt	0.054	0.382	0.107	0.380	0.093	0.499	0.074	0.301	0.033	0.066	0.094	0.541	0.078	0.429

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1	
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D	
RF exposure	Test positions	WiFi 5.3G SISO		WiFi 5.5G SISO		WiFi 5.8G SISO		WiFi 5.9G SISO		WiFi 6e SISO		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
Head Reported SAR	Plimit (dBm)	18.0	24.8	18.0	23.4	18.0	23.6	18.0	22.8	13.0	13.0		
	Left Touch	0.208	0.996	0.299	1.037	0.286	1.038	0.348	1.051	0.101	0.101	1.051	
	Left Tilt	0.112	0.536	0.299	1.037	0.286	1.038	0.348	1.051	0.134	0.134	1.051	
	Right Touch	0.147	0.704	0.299	1.037	0.286	1.038	0.348	1.051	0.065	0.065	1.051	
	Right Tilt	0.062	0.297	0.299	1.037	0.232	0.842	0.348	1.051	0.072	0.072	1.051	

Antenna Group		AG1		AG1		AG1		AG1		AG1	
Antenna		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E	
RF exposure	Test positions	LTE B25		LTE B41		LTE B66		NR Bn41		NR Bn77	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)
Head Reported SAR	Plimit (dBm)	23.5	23.5	23.5	26.3	22.5	22.5	23.0	23.0	19.0	19.0
	Left Touch	0.624	0.624	0.375	0.715	0.346	0.346	0.575	0.575	0.339	0.339
	Left Tilt	0.900	0.900	0.524	0.998	0.522	0.522	0.837	0.837	0.443	0.443
	Right Touch	0.719	0.719	0.310	0.591	0.442	0.442	0.525	0.525	0.630	0.630
	Right Tilt	0.888	0.888	0.440	0.838	0.536	0.536	0.646	0.646	0.772	0.772

Antenna Group		AG1		AG1		AG1	
Antenna		Ant.E		Ant.E		Ant.E	
RF exposure	Test positions	NR Bn25		NR Bn66		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
Head Reported SAR	Plimit (dBm)	23.5	23.5	22.5	22.5		
	Left Touch	0.558	0.558	0.397	0.397	0.575	
	Left Tilt	0.684	0.684	0.620	0.620	0.837	
	Right Touch	0.638	0.638	0.434	0.434	0.638	
	Right Tilt	0.903	0.903	0.684	0.684	0.903	

Antenna Group		AG1		AG1		AG1		AG1	
Antenna		Ant.F		Ant.F		Ant.F		Ant.F	
RF exposure	Test positions	NR Bn77 (SRS2)		WiFi 2.4GH SISO		BT SISO		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
Head Reported SAR	Plimit (dBm)	15.0	15.0	18.0	18.0	19.5	24.9		
	Left Touch	0.164	0.164	0.323	0.323	0.230	0.797	0.797	
	Left Tilt	0.211	0.211	0.323	0.323	0.286	0.992	0.992	
	Right Touch	0.140	0.140	0.323	0.323	0.196	0.680	0.680	
	Right Tilt	0.181	0.181	0.323	0.323	0.287	0.995	0.995	

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		
Antenna		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		
RF exposure	Test positions	NR Bn41 (SRS2)		WiFi 2.4GH SISO		WiFi 5.3G SISO		WiFi 5.5G SISO		WiFi 5.8G SISO		WiFi 5.9G SISO		WiFi 6e SISO		BT SISO		
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
Head Reported SAR	Plimit (dBm)	13.0	13.0	18.0	18.0	18.0	19.4	18.0	23.7	18.0	20.8	18.0	22.9	13.0	13.0	19.5	28.5	
	Left Touch	0.000	0.000	0.133	0.133	0.723	0.998	0.260	0.966	0.322	0.614	0.341	1.054	0.117	0.117	0.127	1.009	1.054
	Left Tilt	0.000	0.000	0.133	0.133	0.113	0.156	0.260	0.966	0.547	1.042	0.341	1.054	0.000	0.000	0.034	0.270	1.054
	Right Touch	0.000	0.000	0.133	0.133	0.518	0.715	0.260	0.966	0.547	1.042	0.341	1.054	0.060	0.060	0.087	0.691	1.054
	Right Tilt	0.000	0.000	0.133	0.133	0.069	0.095	0.260	0.966	0.547	1.042	0.341	1.054	0.007	0.007	0.016	0.127	1.054

Antenna Group		AG1		AG1		AG1	
Antenna		Ant.G+F		Ant.G+F		Ant.G+F	
RF exposure	Test positions	WiFi 2.4G MIMO		BT MIMO		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
Head Reported SAR	Plimit (dBm)	18.0	18.0	15.5	25.1		
	Left Touch	0.268	0.268	0.062	0.565	0.565	
	Left Tilt	0.268	0.268	0.091	0.830	0.830	
	Right Touch	0.268	0.268	0.056	0.511	0.511	
	Right Tilt	0.268	0.268	0.104	0.948	0.948	

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1	
Antenna		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G	
RF exposure	Test positions	WiFi 5.3G MIMO		WiFi 5.5G MIMO		WiFi 5.8G MIMO		WiFi 5.9G MIMO		WiFi 6e MIMO		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
Head Reported SAR	Plimit (dBm)	18.0	19.0	18.0	23.6	18.0	20.4	18.0	21.5	13.0	13.0		
	Left Touch	0.822	1.035	0.263	0.955	0.604	1.050	0.437	0.978	0.192	0.192	1.050	
	Left Tilt	0.193	0.243	0.263	0.955	0.508	0.883	0.437	0.978	0.243	0.243	0.978	
	Right Touch	0.595	0.749	0.263	0.955	0.604	1.050	0.437	0.978	0.143	0.143	1.050	
	Right Tilt	0.112	0.141	0.263	0.955	0.604	1.050	0.377	0.844	0.173	0.173	1.050	

Summation of AG0 and AG1

AG0's worst configuration

Antenna Group		AG0	AG0	AG0	AG0	AG0
Antenna		Ant.A	Ant.A+B	Ant.B	Ant.C	Highest
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR
Head	Left Touch	0.470	0.482	0.537	0.032	0.537
	Left Tilt	0.350	0.384	0.422	0.018	0.422
	Right Touch	0.537	0.537	0.538	0.008	0.538
	Right Tilt	0.370	0.452	0.486	0.018	0.486

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Ant.D	Ant.E	Ant.F	Ant.G	Ant.G+F	Ant.D+G	Highest
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR
Head	Left Touch	1.051	0.575	0.797	1.054	0.565	1.050	1.054
	Left Tilt	1.051	0.837	0.992	1.054	0.830	0.978	1.054
	Right Touch	1.051	0.638	0.680	1.054	0.511	1.050	1.054
	Right Tilt	1.051	0.903	0.995	1.054	0.948	1.050	1.054

AG0 and AG1 summation results

Antenna Group		AG0	AG1	AG0 + AG1	FCC SAR Limit
Antenna		All	All		
RF exposure	Test position	Highest Adjusted SAR	Highest Adjusted SAR		
Head	Left Touch	0.537	1.054	1.591	1.6
	Left Tilt	0.422	1.054	1.476	
	Right Touch	0.538	1.054	1.592	
	Right Tilt	0.486	1.054	1.540	

Note(s):

Additional evaluation is not required due to below FCC limit.

12.1.2 Body&Hotspot(DSI=1) exposure SAR analysis

Condition#1 (Sum of SAR)

Antenna Group : AG0 Ant.A, Ant.A+B, Ant.B, Ant.C

AG0's Highest SAR results

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A		Ant.A	
RF exposure	Test position	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5		NR Bn77 (SRS3)		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	26.3	26.7	25.5	25.7	25.5	26.4	25.5	27.0	25.0	26.6	25.5	26.1	25.0	27.1	15.0	15.0		
Body-worn & Hotspot Reported SAR	Rear	0.330	0.362	0.555	0.581	0.576	0.709	0.337	0.476	0.367	0.530	0.520	0.597	0.498	0.808	0.055	0.055	0.808	
	Front	0.092	0.101	0.240	0.251	0.181	0.223	0.194	0.274	0.175	0.253	0.219	0.251	0.194	0.315	0.000	0.000	0.315	
	Top																	0.000	
	Left																		0.000
	Bottom	0.094	0.103	0.161	0.169	0.172	0.212	0.119	0.168	0.131	0.189	0.175	0.201	0.158	0.256	0.029	0.029	0.256	
	Right	0.237	0.260	0.507	0.531	0.431	0.530	0.381	0.538	0.311	0.450	0.429	0.493	0.329	0.534	0.000	0.000	0.538	

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0
Antenna		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B
RF exposure	Test position	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5		NR Bn77 (SRS3)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	26.3	26.7	25.5	25.7	25.5	26.4	25.5	27.0	25.0	26.6	25.5	26.1	25.0	27.1			
Body-worn & Hotspot Reported SAR	Rear	0.439	0.481	0.144	0.151	0.591	0.727	0.344	0.486	0.368	0.532	0.458	0.526	0.402	0.652			0.727
	Front	0.126	0.138	0.103	0.108	0.232	0.285	0.197	0.278	0.183	0.265	0.212	0.243	0.184	0.298			0.298
	Top																	0.000
	Left	0.205	0.225	0.042	0.044	0.209	0.257	0.190	0.268	0.206	0.298	0.227	0.261	0.169	0.274			0.298
	Bottom	0.194	0.213	0.170	0.178	0.258	0.317	0.173	0.244	0.184	0.266	0.242	0.278	0.195	0.316			0.317
	Right	0.485	0.532	0.424	0.444	0.407	0.501	0.376	0.531	0.369	0.533	0.417	0.479	0.330	0.535			0.535

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B	
RF exposure	Test position	GSM 1900		WCDMA B2		WCDMA B4		LTE B25		LTE B41		LTE B66		NR Bn25		NR Bn66		NR Bn41 (SRS1)		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	19.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0		
Body-worn & Hotspot Reported SAR	Rear	0.642	0.642	0.774	0.774	0.696	0.696	0.750	0.750	0.911	0.911	0.704	0.704	0.642	0.642	0.561	0.561	0.794	0.794	0.911	
	Front	0.194	0.194	0.226	0.226	0.218	0.218	0.203	0.203	0.119	0.119	0.202	0.202	0.196	0.196	0.179	0.179	0.138	0.138	0.226	
	Top																				0.000
	Left	0.103	0.103	0.124	0.124	0.078	0.078	0.108	0.108	0.059	0.059	0.087	0.087	0.088	0.088	0.073	0.073	0.105	0.105	0.124	
	Bottom	1.024	1.024	1.184	1.184	0.979	0.979	1.178	1.178	1.237	1.237	1.048	1.048	0.977	0.977	0.757	0.757	1.126	1.126	1.237	
	Right	0.230	0.230	0.271	0.271	0.166	0.166	0.217	0.217	0.086	0.086	0.144	0.144	0.219	0.219	0.073	0.073	0.123	0.123	0.271	

Antenna Group		AG0		AG0		AG0
Antenna		Ant.C		Ant.C		Ant.C
RF exposure	Test position	NR Bn77 (SRS1)		NR Bn41 (SRS3)		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	15.0	15.0	13.0	13.0	
Body-worn & Hotspot Reported SAR	Rear	0.054	0.054	0.103	0.103	0.103
	Front	0.017	0.017	0.000	0.000	0.017
	Top					0.000
	Left	0.000	0.000	0.000	0.000	0.000
	Bottom	0.074	0.074	0.000	0.000	0.074
	Right					0.000

Antenna Group : AG1 Ant.D, Ant.E, Ant.F, Ant.G, Ant.G+F, Ant.G+D
AG1's Highest SAR results

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1	
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D	
RF exposure	Test position	GSM 850		WCDMA B5		LTE B5		LTE B12		LTE B13		LTE B26		NR Bn5	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)
	Plimit (dBm)	26.3	32.0	25.5	27.8	25.5	31.1	25.5	30.8	25.0	33.0	25.5	30.7	25.0	30.6
Body-worn & Hotspot Reported SAR	Rear	0.139	0.516	0.324	0.550	0.135	0.490	0.266	0.901	0.151	0.953	0.297	0.983	0.275	0.998
	Front	0.085	0.316	0.151	0.256	0.094	0.341	0.097	0.329	0.044	0.278	0.107	0.354	0.085	0.309
	Top	0.094	0.349	0.180	0.306	0.169	0.614	0.145	0.491	0.065	0.410	0.149	0.493	0.141	0.512
	Left														
	Bottom														
	Right	0.270	1.003	0.282	0.479	0.275	0.998	0.289	0.979	0.138	0.871	0.239	0.791	0.214	0.777

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D
RF exposure	Test position	WiFi 5.3G SISO		WiFi 5.5G SISO		WiFi 5.8G SISO		WiFi 5.9G SISO		WiFi 6e SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	25.2	18.0	24.6	18.0	24.5	18.0	24.8	13.0	13.0	
Body-worn & Hotspot Reported SAR	Rear	0.191	1.002	0.227	1.038	0.236	1.054	0.218	1.043	0.204	0.204	1.054
	Front	0.191	1.002	0.044	0.201	0.049	0.219	0.040	0.191	0.017	0.017	1.002
	Top					0.236	1.054					1.054
	Left											0.000
	Bottom											0.000
	Right					0.236	1.054					1.054

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E
RF exposure	Test position	LTE B25		LTE B41		LTE B66		NR Bn41		NR Bn77		NR Bn25		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	21.0	21.0	20.0	20.0	21.0	21.0	19.5	19.5	18.5	18.5	21.0	21.0	
Body-worn & Hotspot Reported SAR	Rear	0.478	0.478	0.313	0.313	0.507	0.507	0.452	0.452	0.428	0.428	0.370	0.370	0.559
	Front	0.137	0.137	0.099	0.099	0.114	0.114	0.123	0.123	0.116	0.116	0.110	0.110	1.002
	Top	0.672	0.672	0.470	0.470	0.592	0.592	0.504	0.504	0.535	0.535	0.575	0.575	1.054
	Left	0.093	0.093	0.084	0.084	0.088	0.088	0.090	0.090	0.096	0.096	0.086	0.086	0.100
	Bottom													0.000
	Right													1.054

Antenna Group		AG1		AG1		AG1		AG1
Antenna		Ant.F		Ant.F		Ant.F		Ant.F
RF exposure	Test position	NR Bn77 (SRS2)		WiFi 2.4G SISO		BT SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	15.0	15.0	18.0	18.0	19.5	23.8	
Body-worn & Hotspot Reported SAR	Rear	0.226	0.226	0.486	0.486	0.359	0.966	0.966
	Front	0.013	0.013	0.093	0.093	0.077	0.207	0.207
	Top	0.187	0.187	0.527	0.527	0.373	1.004	1.004
	Left	0.000	0.000	0.003	0.003	0.021	0.057	0.057
	Bottom						0.000	0.000
	Right	0.022	0.022	0.146	0.146	0.058	0.156	0.156

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G
RF exposure	Test position	NR Bn41 (SRS2)		WiFi 2.4G SISO		WiFi 5.3G SISO		WiFi 5.5G SISO		WiFi 5.8G SISO		WiFi 5.9G SISO		WiFi 6e SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	13.0	13.0	18.0	18.0	18.0	28.1	18.0	24.1	18.0	22.2	18.0	26.5	13.0	28.3	
Body-worn & Hotspot Reported SAR	Rear	0.054	0.054	0.185	0.185	0.099	1.013	0.055	0.224	0.229	0.602	0.149	1.055	0.106	0.106	1.055
	Front	0.000	0.000	0.026	0.026	0.099	1.013	0.078	0.318	0.093	0.245	0.106	0.750	0.003	0.003	1.013
	Top															0.000
	Left															0.000
	Bottom															0.000
	Right	0.016	0.016	0.112	0.112					0.398	1.047				0.110	0.834

Antenna Group		AG1		AG1		AG1
Antenna		Ant.G+F		Ant.G+F		Ant.G+F
RF exposure	Test position	WiFi 2.4G MIMO		BT MIMO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	18.0	15.5	24.2	
Body-worn & Hotspot Reported SAR	Rear	0.469	0.469	0.118	0.875	0.875
	Front	0.097	0.097	0.068	0.504	0.504
	Top	0.452	0.452	0.138	1.023	1.023
	Left	0.036	0.036	0.018	0.133	0.133
	Bottom					0.000
	Right	0.068	0.068	0.055	0.408	0.408

Antenna Group		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G
RF exposure	Test position	WiFi 5.3G MIMO		WiFi 5.5G MIMO		WiFi 5.8G MIMO		WiFi 5.9G MIMO		Highest Adjusted SAR & ER
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	23.7	18.0	21.7	18.0	20.7	18.0	24.9	13.0
Body-worn & Hotspot Reported SAR	Rear	0.273	1.014	0.451	1.057	0.224	0.417	0.212	1.038	0.292
	Front	0.273	1.014	0.089	0.209	0.148	0.276	0.137	0.671	0.038
	Top					0.362	0.674			
	Left									0.000
	Bottom									0.000
	Right					0.563	1.048			1.048

Summation of AG0 and AG1

AG0's worst configuration

Antenna Group		AG0	AG0	AG0	AG0	AG0
Antenna		Ant.A	Ant.A+B	Ant.B	Ant.C	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Body-worn & Hotspot	Rear	0.808	0.727	0.911	0.103	0.911
	Front	0.315	0.298	0.226	0.017	0.315
	Top	0.000	0.000	0.000	0.000	0.000
	Left	0.000	0.298	0.124	0.000	0.298
	Bottom	0.256	0.317	1.237	0.074	1.237
	Right	0.538	0.535	0.271	0.000	0.538

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Ant.D	Ant.E	Ant.F	Ant.G	Ant.G+F	Ant.D+G	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Body-worn & Hotspot	Rear	1.054	0.559	0.966	1.055	0.875	1.057	1.057
	Front	1.002	0.163	0.207	1.013	0.504	1.014	1.014
	Top	1.054	0.672	1.004	0.000	1.023	0.674	1.054
	Left	0.000	0.100	0.057	0.000	0.133	0.000	0.133
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	1.054	0.000	0.156	1.047	0.408	1.048	1.054

AG0 and AG1 summation results

Antenna Group		AG0	AG1	AG0 + AG1	FCC SAR Limit
Antenna		All	All		
RF exposure	Test position	Highest Adjusted SAR	Highest Adjusted SAR		
Body-worn & Hotspot	Rear	0.911	1.057	1.968	1.6
	Front	0.315	1.014	1.329	
	Top	0.000	1.054	1.054	
	Left	0.298	0.133	0.431	
	Bottom	1.237	0.000	1.237	
	Right	0.538	1.054	1.592	

Note(s):

For Rear position, additional SAR calculation is required for each Bands/antennas.

Summation of each antennas of AG0 and each antennas of AG1

AG0(Each antennas) and AG1(Each antennas) summation results

Positions	AG0		AG1		AG0+AG1	Note
	Antenna	SAR	Antenna	SAR		
Rear 10mm	Ant.A	0.81	Ant.D	1.05	1.86	1
		0.81	Ant.E	0.56	1.37	
		0.81	Ant.F	0.97	1.77	1
		0.81	Ant.G	1.05	1.86	1
		0.81	Ant.G+F	0.87	1.68	1
		0.81	Ant.D+G	1.06	1.86	1
	Ant.A+B	0.73	Ant.D	1.05	1.78	1
		0.73	Ant.E	0.56	1.29	
		0.73	Ant.F	0.97	1.69	1
		0.73	Ant.G	1.05	1.78	1
		0.73	Ant.G+F	0.87	1.60	1
		0.73	Ant.D+G	1.06	1.78	1
	Ant.B	0.91	Ant.D	1.05	1.97	1
		0.91	Ant.E	0.56	1.47	
		0.91	Ant.F	0.97	1.88	1
		0.91	Ant.G	1.05	1.97	1
		0.91	Ant.G+F	0.87	1.79	1
		0.91	Ant.D+G	1.06	1.97	1
	Ant.C	0.10	Ant.D	1.05	1.16	
		0.10	Ant.E	0.56	0.66	
		0.10	Ant.F	0.97	1.07	
		0.10	Ant.G	1.05	1.16	
		0.10	Ant.G+F	0.87	0.98	
		0.10	Ant.D+G	1.06	1.16	
Note.1 = SPLSR criteria						

Note(s):

Additional evaluation is required due to over FCC limit. So please refer to Condition#2.

1. Need to SPLSR criteria

Condition#2 (SPLSR)

AG0(Sub6) & AG1(Sub6) SPLSR combinations

Positions	Antenna Group	Antenna	Bands	Adjusted SAR (W/kg)	Y-axis(mm) from ERP point	SPLSR (Y/N)	Antenna Group	Antenna	Bands	Adjusted SAR (W/kg)	Y-axis(mm) from ERP point	SPLSR (Y/N)
Rear -10mm	AG0	Ant.A	GSM 850	0.362		N	AG1	Ant.D	GSM 850	0.516		N
			WCDMA B5	0.581	72.8	Y			WCDMA B5	0.550		N
			LTE B5	0.709	67.9	Y			LTE B5	0.490		N
			LTE B12	0.476		N			LTE B12	0.901	-72.5	Y
			LTE B13	0.530		N			LTE B13	0.953	-73.8	Y
			LTE B26	0.597	69.8	Y			LTE B26	0.983	-75.3	Y
			NR Bn5	0.808	79.5	Y			NR Bn5	0.998	-75.8	Y
			NR Bn77 (SRS3)	0.055		N			WiFi 5.3G SISO	1.002	-73.1	Y
		Worst configuration	0.808	67.9		WiFi 5.5G SISO		1.038	-73.0	Y		
		Ant.A+B	GSM 850	0.481		N		WiFi 5.8G SISO	1.054	-73.9	Y	
			WCDMA B5	0.151		N		WiFi 5.9G SISO	1.043	-62.3	Y	
			LTE B5	0.727	71.8	Y		WiFi 6e SISO	0.204		N	
			LTE B12	0.486		N		Worst configuration	1.054	-62.3		
			LTE B13	0.532		N		NR Bn77 (SRS2)	0.226		N	
			LTE B26	0.526		N		WiFi 2.4G SISO	0.486		N	
			NR Bn5	0.652	68.6	Y		BT SISO	0.966	-73.0	Y	
			Worst configuration	0.727	68.6			Worst configuration	0.966	-73.0		
		Ant.B	GSM 1900	0.642	84.0	Y		Ant.G	NR Bn41 (SRS2)	0.054		N
			WCDMA B2	0.774	82.0	Y			WiFi 2.4G SISO	0.185		N
			WCDMA B4	0.696	79.5	Y			WiFi 5.3G SISO	1.013	-68.0	Y
			LTE B25	0.750	81.0	Y			WiFi 5.5G SISO	0.224		N
			LTE B41	0.911	78.0	Y			WiFi 5.8G SISO	0.602		N
			LTE B66	0.704	77.0	Y			WiFi 5.9G SISO	1.055	-31.3	Y
			NR Bn25	0.642	80.9	Y			WiFi 6e SISO	0.106		N
	NR Bn66		0.561	76.1	Y	BT SISO	1.009		-21.5	Y		
	NR Bn41 (SRS1)		0.794	77.0	Y	Worst configuration	1.055		-21.5			
	Worst configuration		0.911	76.1		Ant.G+F	WiFi 2.4G MIMO		0.469		N	
							BT MIMO		0.875	-77.5	Y	
						Worst configuration	0.875		-77.5			
					Ant.D+G	WiFi 5.3G MIMO	1.014	-72.8	Y			
						WiFi 5.5G MIMO	1.057	-72.3	Y			
						WiFi 5.8G MIMO	0.417		N			
						WiFi 5.9G MIMO	1.038	-75.4	Y			
						WiFi 6e MIMO	0.292		N			
						Worst configuration	1.057	-72.3				

AG0(Sub6) & AG1(Sub6) SPLSR calculation results

Test Position	No.	Antenna pairs		AG0		AG1		AG0+AG1 SUM SAR (W/kg)	SPLSR Results
		AG0	AG1	SAR (W/kg)	Y-axis location (mm)	SAR (W/kg)	Y-axis location (mm)		
Rear	1	Ant.A	Ant.D	0.808	67.9	1.054	-62.3	1.862	0.02
	2	Ant.A	Ant.F	0.808	67.9	0.966	-73.0	1.774	0.02
	3	Ant.A	Ant.G	0.808	67.9	1.055	-21.5	1.863	0.03
	4	Ant.A	Ant.G+F	0.808	67.9	0.875	-77.5	1.682	0.02
	5	Ant.A	Ant.D+G	0.808	67.9	1.057	-72.3	1.865	0.02
	6	Ant.A+B	Ant.D	0.727	68.6	1.054	-62.3	1.781	0.02
	7	Ant.A+B	Ant.F	0.727	68.6	0.966	-73.0	1.693	0.02
	8	Ant.A+B	Ant.G	0.727	68.6	1.055	-21.5	1.782	0.03
	9	Ant.A+B	Ant.G+F	0.727	68.6	0.875	-77.5	1.602	0.01
	10	Ant.A+B	Ant.D+G	0.727	68.6	1.057	-72.3	1.784	0.02
	11	Ant.B	Ant.D	0.911	76.1	1.054	-62.3	1.965	0.02
	12	Ant.B	Ant.F	0.911	76.1	0.966	-73.0	1.877	0.02
	13	Ant.B	Ant.G	0.911	76.1	1.055	-21.5	1.966	0.03
	14	Ant.B	Ant.G+F	0.911	76.1	0.875	-77.5	1.786	0.02
	15	Ant.B	Ant.D+G	0.911	76.1	1.057	-72.3	1.968	0.02

Note(s):

1. Worst combinations SPLSR criteria results is not over 0.04 (1-g SAR) in Sub6 antenna configurations. So additional test is not required.

12.1.3 Product Specific 10g(DSI=1) exposure SAR analysis

Condition#1 (Sum of SAR)

Antenna Group : AG0 Ant.B

AG0's Highest SAR results

Antenna Group		AG0		AG1
Antenna		Ant.B		Ant.E
RF exposure	Test position	LTE B41		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	21.0	21.0	
Product Specific 10-g	Rear		0.000	0.000
	Front		0.000	0.000
	Top		0.000	0.000
	Left		0.000	0.000
	Bottom	3.097	3.097	3.097
	Right		0.000	0.000

Antenna Group : AG1 Ant.D, Ant.G, Ant.G+D

AG1's Highest SAR results

Antenna Group		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D
RF exposure	Test position	WiFi 5.3G SIGO		WiFi 5.5G SIGO		WiFi 5.9G SIGO		WiFi 6e SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	23.6	18.0	20.3	18.0	22.1	13.0	13.0	
Product Specific 10-g	Rear	0.193	0.701	1.645	2.794	1.010	2.596	0.212	0.212	2.794
	Front	0.687	2.494	1.645	2.794	1.010	2.596	0.041	0.041	2.794
	Top	0.687	2.494	1.645	2.794	1.010	2.596	0.455	0.455	2.794
	Left									0.000
	Bottom									0.000
	Right	0.687	2.494	1.072	1.821	0.342	0.879	0.048	0.048	2.494

Antenna Group		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G
RF exposure	Test position	WiFi 5.3G SIGO		WiFi 5.5G SIGO		WiFi 5.9G SIGO		WiFi 6e SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	20.9	18.0	20.3	18.0	21.3	13.0	13.0	
Product Specific 10-g	Rear	0.386	0.753	0.483	0.820	1.237	2.645	0.102	0.102	2.645
	Front	1.304	2.543	1.698	2.884	0.308	0.658	0.044	0.044	2.884
	Top									0.000
	Left									0.000
	Bottom									0.000
	Right	1.304	2.543	1.698	2.884	1.237	2.645	0.289	0.289	2.884

Antenna Group		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G		Ant.D+G
RF exposure	Test position	WiFi 5.3G MIMO		WiFi 5.5G MIMO		WiFi 5.9G MIMO		WiFi 6e MIMO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	20.1	18.0	19.8	18.0	21.2	13.0	13.0	
Product Specific 10-g	Rear	0.524	0.850	1.888	2.858	1.265	2.643	0.190	0.190	2.858
	Front	1.491	2.418	1.888	2.858	1.265	2.643	0.075	0.075	2.858
	Top	0.906	1.469	1.888	2.858	1.231	2.572	0.308	0.308	2.858
	Left									0.000
	Bottom									0.000
	Right	1.491	2.418	1.552	2.349	1.265	2.643	0.385	0.385	2.643

External Ratio(ER) Group : NFC, UWB

ER's Highest SAR results

Antenna		NFC	UWB	NFC, UWB
RF exposure	Test position	Reported SAR (W/kg)	Reported SAR (W/kg)	Highest Adjusted
		Product Specific 10-g	Rear	0.003
Front	0.003		0.000	0.003
Top	0.000		0.000	0.000
Left	0.002		0.000	0.002
Bottom				0.000
Right	0.003			0.003

Summation of AG1 and ER

AG0's worst configuration

Antenna Group		AG0	AG0
Antenna		Ant.B	Highest
RF exposure	Test position	Adjusted SAR	Adjusted SAR
Product Specific 10-g	Rear	0.000	0.000
	Front	0.000	0.000
	Top	0.000	0.000
	Left	0.000	0.000
	Bottom	3.097	3.097
	Right	0.000	0.000

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1
Antenna		Ant.D	Ant.G	Ant.D+G	Highest
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR
Product Specific 10-g	Rear	2.794	2.645	2.858	2.858
	Front	2.794	2.884	2.858	2.884
	Top	2.794	0.000	2.858	2.858
	Left	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000
	Right	2.494	2.884	2.643	2.884

AG0 and AG1 summation results

Antenna Group		AG0	AG1	ER		FCC TER Limit
Antenna		All	All	AG0 + AG1		
RF exposure	Test position	Highest Adjusted ER	Highest Adjusted ER	Highest Adjusted ER		
Product Specific 10-g	Rear	0.000	2.858	0.011		4.0
	Front	0.000	2.884	0.003		
	Top	0.000	2.858	0.000		
	Left	0.000	0.000	0.002		
	Bottom	3.097	0.000	0.000		
	Right	0.000	2.884	0.003		

Note(s):

Additional evaluation is not required due to below FCC limit.

12.2. Folder Opened (UMPC mini tablet) condition

12.2.1 Body(DSI=0) exposure SAR analysis

Condition#1 (Sum of SAR)

Antenna Group : AG0 Ant.A, Ant.A+B, Ant.B, Ant.C

AG0's Highest SAR results

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B	
RF exposure	Test position	GSM 850		WCDMA B5		LTE B12		LTE B13		LTE B5		LTE B26		NR Bn5		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	26.3	27.2	25.5	25.7	25.5	26.0	24.0	25.9	25.5	25.5	25.5	25.5	25.0	25.0		
Body SAR	Rear	0.643	0.791	0.753	0.788	0.470	0.527	0.505	0.782	0.777	0.777	0.697	0.697	0.762	0.762	0.791	
	Front	0.541	0.666	0.509	0.533	0.494	0.554	0.327	0.506	0.639	0.639	0.518	0.518	0.532	0.532	0.666	
	Top		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Left		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Bottom	0.282	0.347	0.314	0.329	0.243	0.273	0.284	0.303	0.232	0.232	0.262	0.262	0.303	0.303	0.347	
	Right	0.559	0.688	0.511	0.535	0.364	0.408	0.300	0.465	0.501	0.501	0.356	0.356	0.409	0.409	0.688	

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B	
RF exposure	Test position	GSM 1900		WCDMA B2		WCDMA B4		LTE B66		LTE B25		LTE B41		NR Bn66		NR Bn25		NR Bn41(SRS)		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	19.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0	17.5	17.5	20.0	20.0	19.0	19.0	17.5	17.5		
Body SAR	Rear	0.469	0.469	0.694	0.694	0.721	0.721	0.599	0.599	0.734	0.734	0.345	0.345	0.690	0.690	0.689	0.689	0.362	0.362	0.734	
	Front	0.411	0.411	0.545	0.545	0.421	0.421	0.424	0.424	0.391	0.391	0.240	0.240	0.465	0.465	0.438	0.438	0.276	0.276	0.545	
	Top		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Left		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Bottom	0.725	0.725	1.088	1.088	1.054	1.054	0.710	0.710	0.899	0.899	1.035	1.035	0.834	0.834	0.884	0.884	0.712	0.712	1.088	
	Right	0.229	0.229	0.324	0.324	0.178	0.178	0.187	0.187	0.307	0.307	0.079	0.079	0.216	0.216	0.246	0.246	0.125	0.125	0.324	

Antenna Group		AG0		AG0		
Antenna		Ant.C		Ant.C		
RF exposure	Test position	NR Bn41-SRS		NR Bn77-SRS		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	13.0	13.0	15.0	15.0	
Body SAR	Rear	0.032	0.032	0.060	0.060	0.060
	Front	0.023	0.023	0.057	0.057	0.057
	Top		0.000		0.000	0.000
	Left		0.000		0.000	0.000
	Bottom		0.000		0.000	0.000
	Right	0.053	0.053	0.125	0.125	0.125

Antenna Group		AG0		
Antenna		Ant.A		
RF exposure	Test position	NR Bn77-SRS		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	15.0	15.0	
Body SAR	Rear	0.120	0.120	0.120
	Front	0.107	0.107	0.107
	Top		0.000	0.000
	Left		0.000	0.000
	Bottom	0.164	0.164	0.164
	Right	0.186	0.186	0.186

Antenna Group : AG1 Ant.D, Ant.E, Ant.F, Ant.G, Ant.G+F, Ant.G+D

AG1's Highest SAR results

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1		
Antenna		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		Ant.D		
RF exposure	Test position	GSM 850		WCDMA B5		LTE B12		LTE B13		LTE B5		LTE B26		NR Bn5		WiFi 5.3 SISO		WiFi 5.5 SISO		WiFi 5.8 SISO		WiFi 6e SISO		Highest Adjusted SAR		
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)			
	Plimit (dBm)	26.3	28.0	25.5	25.5	25.5	25.8	25.0	25.5	25.5	26.5	25.5	26.5	25.0	25.5	18.0	20.0	18.0	22.2	18.0	20.7	18.0	20.8	11.0		
Body SAR	Rear	0.240	0.355	0.709	0.709	0.461	0.494	0.492	0.552	0.614	0.773	0.573	0.722	0.631	0.708	0.353	0.559	0.293	0.771	0.259	0.482	0.354	0.675	0.133	0.133	0.773
	Front	0.238	0.352	0.387	0.387	0.263	0.282	0.366	0.411	0.318	0.400	0.333	0.419	0.460	0.516	0.247	0.391	0.348	0.915	0.220	0.410	0.345	0.657	0.107	0.107	0.915
	Top	0.135	0.200	0.230	0.230	0.229	0.245	0.259	0.290	0.159	0.200	0.168	0.211	0.282	0.316	0.501	0.794	0.348	0.915	0.249	0.464	0.351	0.669	0.172	0.172	0.915
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.250	0.370	0.389	0.389	0.294	0.315	0.331	0.372	0.329	0.414	0.352	0.443	0.365	0.410	0.501	0.794	0.281	0.739	0.165	0.344	0.160	0.305	0.022	0.022	0.794

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E		Ant.E
RF exposure	Test position	LTE B66		LTE B25		LTE B41		NR Bn66		NR Bn25		NR Bn41(SRS)		NR Bn77		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	21.0	21.0	21.0	21.0	20.0	20.0	21.0	21.0	21.0	19.5	19.5	18.5	18.5		
Body SAR	Rear	0.653	0.653	0.724	0.724	0.324	0.324	0.701	0.701	0.568	0.568	0.442	0.442	0.616	0.616	0.724
	Front	0.328	0.328	0.288	0.288	0.248	0.248	0.376	0.376	0.369	0.369	0.317	0.317	0.316	0.316	0.376
	Top	0.770	0.770	0.691	0.691	0.594	0.594	0.831	0.831	0.630	0.630	0.665	0.665	0.775	0.775	0.831
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Antenna Group		AG1		AG1		AG1		AG1
Antenna		Ant.F		Ant.F		Ant.F		Ant.F
RF exposure	Test position	NR Bn77-SRS		WiFi 2.4 SISO		BT SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	15.0	15.0	18.0	18.0	19.5	19.5	
Body SAR	Rear	0.340	0.340	0.410	0.410	0.378	0.378	0.410
	Front	0.130	0.130	0.131	0.131	0.138	0.138	0.138
	Top	0.175	0.175	0.436	0.436	0.468	0.468	0.468
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.019	0.019	0.070	0.070	0.057	0.057	0.070

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G		Ant.G
RF exposure	Test position	NR Bn41-SRS		WiFi 2.4 SISO		BT SISO		WiFi 5.3 SISO		WiFi 5.5 SISO		WiFi 5.8 SISO		WiFi 5.9 SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	13.0	13.0	18.0	18.0	19.5	21.0	18.0	19.8	18.0	19.3	18.0	18.7	18.0	19.0	11.0
Body SAR	Rear	0.029	0.029	0.395	0.395	0.221	0.312	0.348	0.527	0.309	0.417	0.196	0.230	0.222	0.279	0.035
	Front	0.019	0.019	0.149	0.149	0.238	0.336	0.504	0.763	0.370	0.499	0.280	0.329	0.283	0.356	0.104
	Top	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.036	0.036	0.200	0.200	0.328	0.463	0.473	0.715	0.355	0.479	0.398	0.456	0.429	0.540	0.047

Antenna Group		AG1		AG1		AG1
Antenna		Ant.G+F		Ant.G+F		Ant.G+F
RF exposure	Test position	WiFi 2.4 MIMO		BT MIMO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	18.0	15.5	21.5	
Body SAR	Rear	0.563	0.563	0.173	0.689	0.689
	Front	0.139	0.139	0.075	0.299	0.299
	Top	0.166	0.166	0.141	0.561	0.561
	Left	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000
	Right	0.099	0.099	0.068	0.271	0.271

Antenna Group		AG1		AG1		AG1		AG1		AG1		AG1
Antenna		Ant.G+D		Ant.G+D		Ant.G+D		Ant.G+D		Ant.G+D		Ant.G+D
RF exposure	Test position	WiFi 5.3 MIMO		WiFi 5.5 MIMO		WiFi 5.8 MIMO		WiFi 5.9 MIMO		WiFi 6e SISO		Highest Adjusted SAR
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	
	Plimit (dBm)	18.0	18.7	18.0	18.4	18.0	18.3	18.0	18.0	11.0	11.0	
Body SAR	Rear	0.611	0.718	0.507	0.556	0.481	0.515	0.445	0.445	0.255	0.255	0.718
	Front	0.739	0.869	0.514	0.564	0.457	0.490	0.514	0.514	0.133	0.133	0.869
	Top	0.244	0.287	0.388	0.425	0.596	0.639	0.514	0.514	0.117	0.117	0.639
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.703	0.826	0.536	0.588	0.596	0.639	0.449	0.449	0.092	0.092	0.826

Summation of AG0 and AG1

AG0's worst configuration

Antenna Group		AG0	AG0	AG0	AG0	AG0
Antenna		Ant.A+B	Ant.B	Ant.C	Ant.A	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Body	Rear	0.791	0.734	0.060	0.120	0.791
	Front	0.666	0.545	0.057	0.107	0.666
	Top	0.000	0.000	0.000	0.000	0.000
	Left	0.000	0.000	0.000	0.000	0.000
	Bottom	0.347	1.088	0.000	0.164	1.088
	Right	0.688	0.324	0.125	0.186	0.688

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Ant.D	Ant.E	Ant.F	Ant.G	Ant.G+F	Ant.G+D	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Body	Rear	0.773	0.724	0.410	0.527	0.689	0.718	0.773
	Front	0.915	0.376	0.138	0.763	0.299	0.869	0.915
	Top	0.915	0.831	0.468	0.000	0.561	0.639	0.915
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.794	0.000	0.070	0.715	0.271	0.826	0.826

AG0 and AG1 summation results

Antenna Group		AG0	AG1	AG0 + AG1	FCC SAR Limit (W/kg)
Antenna		All	All		
RF exposure	Test position	Highest Adjusted SAR	Highest Adjusted SAR		
Body	Rear	0.791	0.773	1.564	1.6
	Front	0.666	0.915	1.581	
	Top	0.000	0.915	0.915	
	Left	0.000	0.000	0.000	
	Bottom	1.088	0.000	1.088	
	Right	0.688	0.826	1.514	

Conclusion:

Simultaneous transmission analysis results is satisfied the FCC Limit requirement.

12.2.2 Extremity 10-g exposure (DSI = 0) SAR analysis

Condition#1 (Sum of SAR)

Antenna Group : AG0 Ant.A, Ant.A+B, Ant.B, Ant.C

AG0's Highest SAR results

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B		Ant.A+B	
RF exposure	Test position	GSM 850		WCDMA B5		LTE B12		LTE B13		LTE B5		LTE B26		NR Bn5		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	26.3	27.2	25.5	25.7	25.5	25.5	24.0	25.9	25.5	25.5	25.5	25.5	25.0	25.5		
Extremity SAR	Rear	1.711	2.105	1.618	1.694	0.887	0.887	0.661	1.024	1.156	1.156	1.168	1.168	1.307	1.466	2.105	
	Front	1.696	2.087	1.581	1.656	1.948	1.948	0.845	1.309	2.162	2.162	2.024	2.024	1.475	1.655	2.162	
	Top		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Left		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Bottom	1.241	1.527	1.332	1.395	0.813	0.813	0.718	1.112	1.625	1.625	0.846	0.846	1.294	1.452	1.625	
	Right	1.535	1.888	1.991	2.085	2.188	2.188	1.406	2.178	2.081	2.081	1.888	1.888	1.954	2.192	2.192	

Antenna Group		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0		AG0	
Antenna		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B		Ant.B	
RF exposure	Test position	GSM 1900		WCDMA B2		WCDMA B4		LTE B66		LTE B25		LTE B41		NR Bn66		NR Bn25		NR Bn41(SRS)		Highest Adjusted SAR	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)		
	Plimit (dBm)	19.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	19.0	19.0	17.5	17.5	20.0	20.0	19.0	19.0	17.5	17.5		
Extremity SAR	Rear	1.180	1.180	1.286	1.286	1.199	1.199	1.435	1.435	1.643	1.643	0.628	0.628	1.515	1.515	1.157	1.157	1.079	1.079	1.643	
	Front	1.185	1.185	1.637	1.637	1.136	1.136	1.229	1.229	1.153	1.153	0.826	0.826	1.538	1.538	1.325	1.325	0.897	0.897	1.637	
	Top		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Left		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	0.000	
	Bottom	2.575	2.575	3.099	3.099	2.932	2.932	3.133	3.133	3.020	3.020	2.828	2.828	2.964	2.964	2.554	2.554	2.571	2.571	3.133	
	Right	0.649	0.649	0.899	0.899	0.447	0.447	0.411	0.411	0.790	0.790	0.120	0.120	0.518	0.518	0.639	0.639	0.227	0.227	0.899	

Antenna Group		AG0		AG0	
Antenna		Ant.C		Ant.C	
RF exposure	Test position	NR Bn41-SRS		NR Bn77-SRS	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)	Reported SAR (W/kg)	Adjusted SAR (W/kg)
	Plimit (dBm)	13.0	13.0	15.0	15.0
Extremity SAR	Rear	0.156	0.156	0.560	0.560
	Front	0.104	0.104	0.288	0.288
	Top		0.000		0.000
	Left		0.000		0.000
	Bottom	0.141	0.141	0.719	0.719
	Right		0.000		0.000

Antenna Group		AG0	
Antenna		Ant.A	
RF exposure	Test position	NR Bn77-SRS	
		Reported SAR (W/kg)	Adjusted SAR (W/kg)
	Plimit (dBm)	15.0	15.0
Extremity SAR	Rear	0.210	0.210
	Front	0.548	0.548
	Top		0.000
	Left		0.000
	Bottom	0.820	0.820
	Right	0.414	0.414

Summation of AG0 and AG1 and ERs

AG0's worst configuration

Antenna Group		AG0	AG0	AG0	AG0	AG0
Antenna		Ant.A+B	Ant.B	Ant.C	Ant.A	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Extremity	Rear	2.105	1.643	0.560	0.210	2.105
	Front	2.162	1.637	0.288	0.548	2.162
	Top	0.000	0.000	0.000	0.000	0.000
	Left	0.000	0.000	0.000	0.000	0.000
	Bottom	1.625	3.133	0.719	0.820	3.133
	Right	2.192	0.899	0.000	0.414	2.192

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Ant.D	Ant.E	Ant.F	Ant.G	Ant.G+F	Ant.G+D	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Extremity	Rear	1.332	1.657	1.132	0.789	0.959	0.841	1.657
	Front	2.216	1.359	0.838	1.510	0.792	1.680	2.216
	Top	2.315	2.960	2.444	0.021	2.608	1.290	2.960
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Bottom	0.000	0.000	0.000	0.000	0.000	0.002	0.002
	Right	1.588	0.000	0.131	1.649	0.808	1.598	1.649

AG0 and AG1 summation results

Antenna Group		AG0	AG1	AG0 + AG1	FCC SAR Limit
Antenna		All	All		
RF exposure	Test position	Highest Adjusted SAR	Highest Adjusted SAR		
Extremity	Rear	2.105	1.657	3.762	4.0
	Front	2.162	2.216	4.378	
	Top	0.000	2.960	2.960	
	Left	0.000	0.000	0.000	
	Bottom	3.133	0.002	3.135	
	Right	2.192	1.649	3.842	

Note(s):

For Front positions, additional SAR calculation is required for each Bands/antennas.

Summation of each antennas of AG0 and each antennas of AG1 and ERs

AG0(Each antennas) and AG1(Each antennas) summation results						
Positions	AG0		AG1		AG0+AG1	Note
	Antenna	SAR	Antenna	SAR		
Front	Ant.A+B	2.16	Ant.D	2.22	4.38	1
		2.16	Ant.E	1.36	3.52	
		2.16	Ant.F	0.84	3.00	
		2.16	Ant.G	1.51	3.67	
		2.16	Ant.G+F	0.79	2.95	
		2.16	Ant.G+D	1.68	3.84	
	Ant.B	1.64	Ant.D	2.22	3.85	1
		1.64	Ant.E	1.36	3.00	
		1.64	Ant.F	0.84	2.48	
		1.64	Ant.G	1.51	3.15	
		1.64	Ant.G+F	0.79	2.43	
		1.64	Ant.G+D	1.68	3.32	
	Ant.C	0.29	Ant.D	2.22	2.50	
		0.29	Ant.E	1.36	1.65	
		0.29	Ant.F	0.84	1.13	
		0.29	Ant.G	1.51	1.80	
		0.29	Ant.G+F	0.79	1.08	
		0.29	Ant.G+D	1.68	1.97	
	Ant.A	0.55	Ant.D	2.22	2.76	
		0.55	Ant.E	1.36	1.91	
		0.55	Ant.F	0.84	1.39	
		0.55	Ant.G	1.51	2.06	
		0.55	Ant.G+F	0.79	1.34	
		0.55	Ant.G+D	1.68	2.23	
Note.1 = SPLSR criteria						

Note(s):

Additional evaluation is required due to over FCC limit. So please refer to Condition#2.

1. Need to SPLSR criteria

Condition#2 (SPLSR)

AG0(Sub6) & AG1(Sub6) SPLSR combinations

Highest Reported SAR and Peak SAR location (only Y-axis location) in each WWAN&WLAN Bands in each Antennas

Positions	Antenna Group	Antenna	Bands	Adjusted SAR (W/kg)	Y-axis(mm) from ERP point	SPLSR (Y/N)	Antenna Group	Antenna	Bands	Adjusted SAR (W/kg)	Y-axis(mm) from ERP point	SPLSR (Y/N)
Front -0mm	AG0	Ant.A+B	GSM 850	2.087	60.0	Y	AG1	Ant.D	GSM 850	2.149	-54.0	Y
			WCDMA B5	1.656	42.0	Y			WCDMA B5	1.947	-52.5	Y
			LTE B12	1.948	48.0	Y			LTE B12	1.303	-54.0	
			LTE B13	1.309					LTE B13	1.579	-52.5	
			LTE B26	2.024	45.5	Y			LTE B26	2.172	-50.7	Y
			LTE B5	2.162	41.5	Y			LTE B5	2.021	-52.5	Y
			NR Bn5	1.655	46.5	Y			NR Bn5	1.642	-46.6	Y
		Worst configuration	2.162	41.5		Worst configuration		2.216	-46.6			
		Ant.B	GSM 1900	1.185				WIFI 5.3GHz	0.750	-48.9		
			WCDMA B4	1.136				WIFI 5.5GHz	1.983	-81.0	Y	
			WCDMA B2	1.637	81.0	Y		WIFI 5.8GHz	1.335	-76.0		
			LTE B66	1.229				WIFI 5.9GHz	2.216	-74.0	Y	
			LTE B25	1.153				WIFI 6GHz	0.107			
			LTE B41	0.826				Worst configuration	2.216	-46.6		
			NR Bn66	1.538	82.0			LTE B66	1.359			
			NR Bn25	1.325	79.5	Y		LTE B25	0.976			
			NR Bn41 (SRS)	0.897				LTE B41	0.998			
			Worst configuration	1.637	79.5			NR Bn66	1.281			
			Ant.C	NR Bn41 SRS	0.104				NR Bn25	1.110		
				NR Bn77 SRS	0.288				NR Bn41(SRS)	0.983		
	Worst configuration			0.288	0.0		NR Bn77	1.350				
	Ant.A	NR Bn41 SRS	0.548			Worst configuration	1.359	0.0				
		Worst configuration	0.548	0.0		Ant.F	NR Bn77 SRS	0.348				
							WIFI 2.4G	0.587				
							BT	0.838				
							Worst configuration	0.838	0.00			
							NR Bn41 SRS	0.154				
							WIFI 2.4G	0.607	-26.2			
							BT	1.510	-30.2	Y		
							WIFI 5.2GHz	1.403	-28.0			
							WIFI 5.5GHz	1.483	-35.0			
							WIFI 5.8GHz	1.499	-30.0			
							WIFI 5.9GHz	1.347	-25.0			
							WIFI 6GHz	0.728				
							Worst configuration	1.510	-25.0	Y		
							Ant.G+F	WIFI 2.4G MIMO	0.589			
								BT MIMO	0.792			
							Worst configuration	0.792				
							Ant.G+D	WIFI 5.3GHz MIMO	1.196			
								WIFI 5.5GHz MIMO	1.680			
						WIFI 5.8GHz MIMO		1.664				
						WIFI 5.9GHz MIMO		1.253				
						WIFI 6GHz MIMO		0.505				
						Worst configuration	1.680	0.0				

AG0(Sub6) & AG1(Sub6) SPLSR calculation results

Test position	No.	Antenna pairs		AG0		AG1		AG0+AG1 SUM SAR (W/kg)	SPLSR Results
		AG0	AG1	SAR (W/kg)	Y-axis (mm)	SAR (W/kg)	Y-axis (mm)		
Front	1	A+B	D	2.162	41.5	2.216	-46.6	4.378	0.10
	5	B	D	1.637	79.5	2.216	-46.6	3.853	0.06

Note(s):

1. Worst combinations SPLSR criteria results is not over 0.10 (10-g SAR) in Sub6 antenna configurations. So additional test is not required.

Conclusion:

Simultaneous transmission analysis results is satisfied the FCC Limit requirement.

Appendixes

Refer to separated files for the following appendixes.

4791196626-S1 FCC Report SAR_App A_Photos & Ant. Locations

4791196626-S1 FCC Report SAR_App B_Highest SAR Test Plots

4791196626-S1 FCC Report SAR_App C_System Check Plots

4791196626-S1 FCC Report SAR_App D_SAR Tissue Ingredients

4791196626-S1 FCC Report SAR_App E_Probe Cal. Certificates

4791196626-S1 FCC Report SAR_App F_Dipole Cal. Certificates

4791196626-S1 FCC Report SAR_App G_LTE Carrier Aggregation

4791196626-S1 FCC Report SAR_App H_Dynamic Antenna tuner testing

4791196626-S1 FCC Report SAR_App I_Hall effect sensor verification

END OF REPORT