

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

**SAR EVALUATION REPORT
(Part 0 : SAR Characterization and
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

MODEL NUMBER: SM-A366E/DS, SM-A366E

FCC ID: A3LSMA366E

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Testing Laboratory

TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	2024-12-30	Initial Issue	--
V2	2025-01-03	Revised LTE Release version in Sec.6.2. Revised DTS ax mode target power in Sec.6.5, 9.5. Revised Simultaneous TX SAR results of SUM-SPLSR in Sec.12.2.	Seungyeon.Kim

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1. Attestation of Test Results

Applicant Name		SAMSUNG ELECTRONICS CO.,LTD.				
FCC ID		A3LSMA366E				
Model Number		SM-A366E/DS, SM-A366E				
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	0.68	0.27	0.37	0.19	N/A
	Body-worn (at 5mm)	1.09	0.41	0.41	0.18	N/A
	Hotspot (at 5mm)	1.09	0.60	0.69	0.20	N/A
	Near Body (at 5mm)			0.56		<0.1
Simultaneous TX	Head (at 5mm)	1.59	1.59	1.59	1.59	N/A
	Body-worn (at 5mm)	1.44				N/A
	Hotspot (at 5mm)	1.56				N/A
	Near Body (at 5mm)					1.56
Date Tested		11/13/2024 to 12/26/2024				
Test Results		Pass				
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. 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.						
Approved & Released By:			Prepared By:			
						
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory			Seungyeon Kim 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)			
			1g of tissue			
			Head Exposure Condition	Body-worn Exposure Condition	Hotspot Exposure Condition	Near Body Exposure Condition
PCE	GSM 850	Main.1	0.318	0.677	0.677	
	GSM 1900	Main.2	0.116	0.727	0.727	
	WCDMA V	Main.1	0.361	1.031	1.031	
	WCDMA IV	Main.2	0.138	1.085	1.085	
	WCDMA II	Main.2	0.182	1.087	1.087	
	LTE Band 66 (4)	Sub.2	0.677	0.780	1.036	
	LTE Band 66 (4)	Main.2	0.172	0.785	0.785	
	LTE Band 5	Main.1	0.365	1.081	1.081	
	LTE Band 12	Main.1	0.215	0.496	0.496	
	LTE Band 13	Main.1	0.145	0.260	0.260	
	LTE Band 17	Main.1	0.262	0.675	0.675	
	LTE Band 25(2)	Main.2	0.290	0.787	0.787	
	LTE Band 25(2)	Sub.2	0.663	0.895	0.985	
	LTE Band 26	Main.1	0.249	0.830	0.830	
	LTE Band 41	Main.2	0.132	1.007	1.007	
	LTE Band 41	Sub.2	0.276	0.162	0.283	
	NR Band n5	Main.1	0.268	0.979	0.979	
	NR Band n66	Main.2	0.114	0.777	0.777	
	NR Band n66	Sub.2	0.679	0.905	1.021	
	NR Band n41 SRS1	Main.2	0.090	0.888	0.888	
	NR Band n41 SRS2	Sub.2	0.590	0.457	0.515	
	NR Band n41 SRS3	Sub.4	0.587	0.498	0.605	
	NR Band n41 SRS4	Sub.1	0.263	0.365	0.433	
	NR Band n77(78) SRS1	Sub.3	0.577	0.299	0.632	
	NR Band n77(78) SRS2	Main.2	0.000	0.252	0.265	
	NR Band n77(78) SRS3	Sub.7	0.093	0.746	0.746	
	NR Band n77(78) SRS4	Sub.8	0.149	0.330	0.330	
DTS	2.4GHz WLAN		0.270	0.407	0.601	
NII	5GHz WLAN		0.365	0.414	0.692	0.560
DSS	Bluetooth		0.191	0.183	0.201	
DXX	NFC		N/A	N/A	N/A	0.032

Note(s):

1. The Highest Reported SAR Results were listed for each RF exposure conditions for each supported bands based on SAR test results of Section.10.

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
- 941225 D07 UMPC Mini Tablet v01r02
- 971168 D01 Power Meas License Digital System v03r01

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](#) 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](#) April, 2022; RF Exposure Procedures (Sum-Peak Location Separation Ratio)
- [TCB workshop](#) October, 2022; RF Exposure Policies & Procedures (SAR test frequencies in multi-rule)
- [TCB workshop](#) October, 2024; CA and Simultaneous Transmissions (CA-DL Test Reductions)

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 5 Room	

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

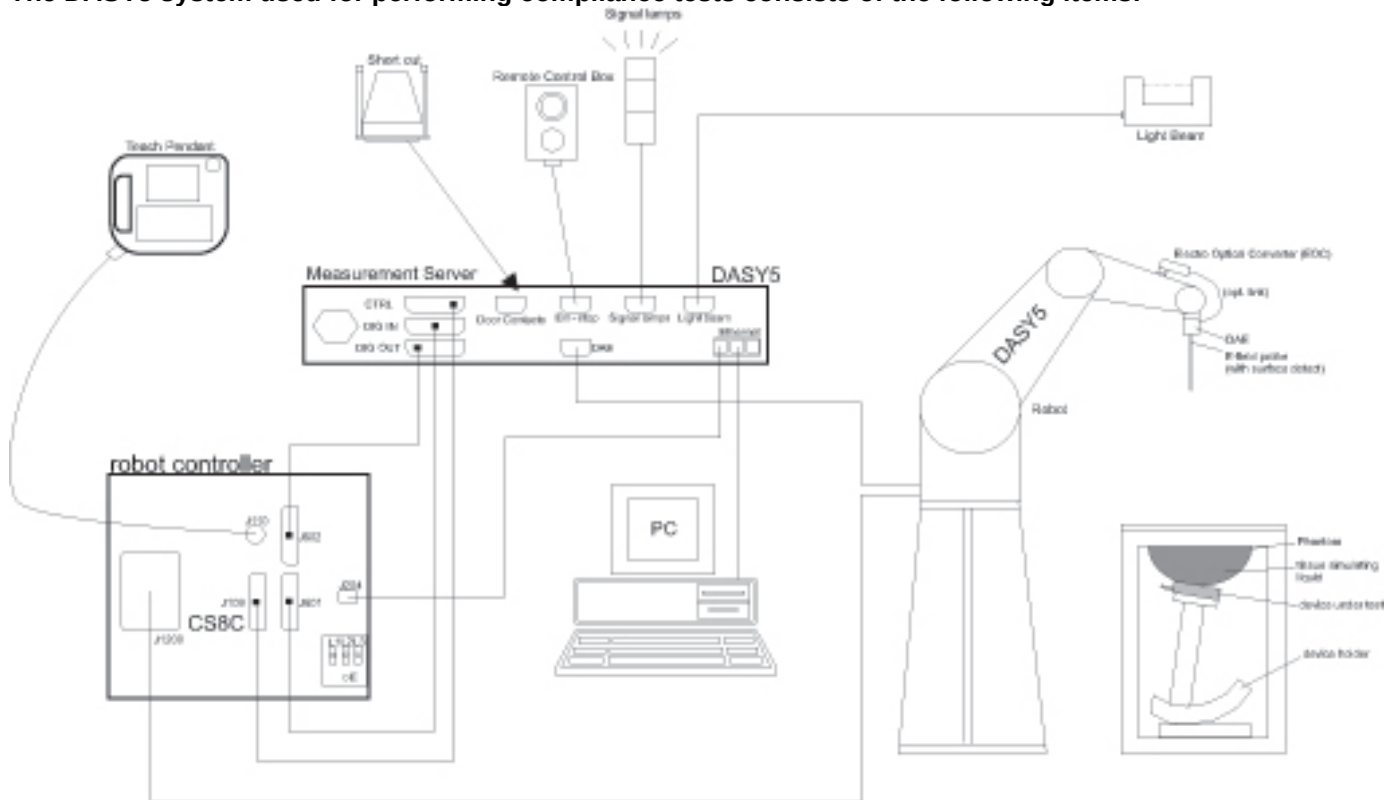
The full scope of accreditation can be viewed at;

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

4. SAR Measurement System & Test Equipment

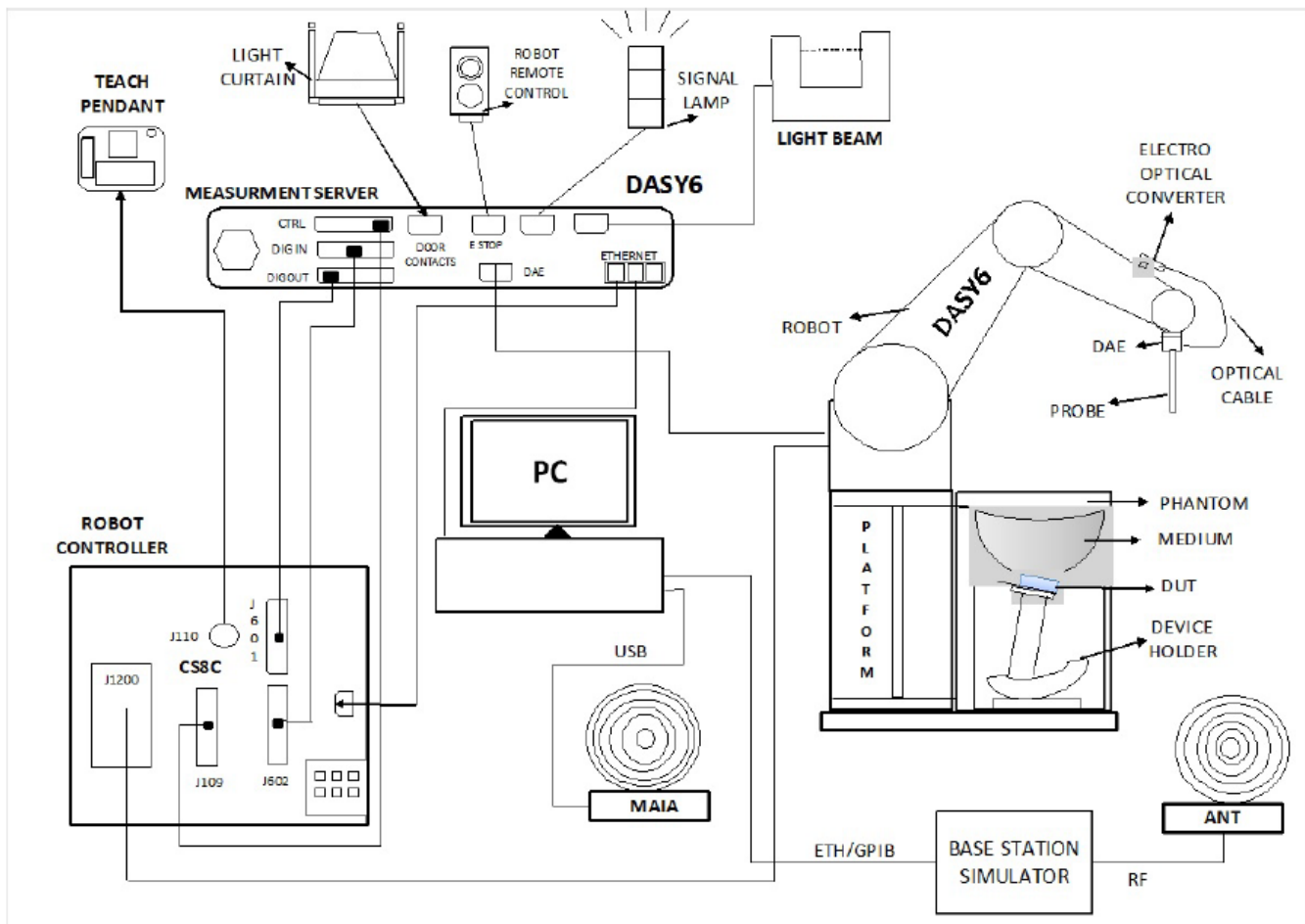
4.1. SAR Measurement System

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 Win11 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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

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

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

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

Step 4: Power drift measurement

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

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	2025-07-24
Network Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	2025-07-22
Dielectric Assessment Kit	SPEAG	DAK-12	1158	2025-10-21
Dielectric Assessment Kit	SPEAG	DAK-3.5	1133	2025-03-12
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	2025-06-10
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0060221	2025-03-21
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	2025-07-23
Thermometer	LKM	DTM3000	3862	2025-07-23

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Agilent	N5181A	MY50145882	2025-07-22
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	2025-07-25
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY60490008	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY60160004	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY61010006	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY54260007	2025-07-25
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61200006	2025-01-03
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61280010	2025-01-03
Power Amplifier	MINI-CIRCUITS	TVA-R5-13A+	2111006	2025-01-03
Power Amplifier	EXODUS	AMP2027ADB	10002	2025-01-05
Power Amplifier	Sambo	BA00T60W2D	S3010-0001	2025-02-21
Directional Coupler	Agilent	772D	MY52180193	2025-07-25
Directional Coupler	H.P	778D	16133	2025-07-25
Directional Coupler	KRYTAR	100318010	215541	2025-01-04
Low Pass Filter	FILTRON	L14012FL	1410003S	2025-07-24
Low Pass Filter	MICROLAB	LA-60N	3942	2025-07-24
Low Pass Filter	MINI-CIRCUITS	VLF-6000+	S0142	2025-07-24
Low Pass Filter	MINI-CIRCUITS	VLF-3000+	S0143	2025-07-24
Low Pass Filter	MINI-CIRCUITS	NLP-1200+	VUU19301915	2025-01-04
Low Pass Filter	KRYTAR	VLKX10-11000-13640-21000-60TS	1	2025-07-23
Low Pass Filter	MINI-CIRCUITS	VLF-1500+	32333	2025-03-01
Attenuator	KEYSIGHT	BW-N10W5+	N/A	2025-07-23
Attenuator	KEYSIGHT	BW-N20W5+	N/A	2025-07-23
Attenuator	KEYSIGHT	BW-S3W10+	N/A	2025-01-04
Attenuator	KEYSIGHT	8491B/003	VE2017A0283	2025-07-24
Attenuator	KEYSIGHT	8491B/010	MY39271981	2025-07-24
Attenuator	KEYSIGHT	8491B/010	MY39272011	2025-07-24
Attenuator	KEYSIGHT	8491B/020	MY39272302	2025-07-24
Attenuator	KEYSIGHT	8491B/020	MY39271973	2025-07-24
Thermometer	Lutron	MHB-382SD	AH.50215	2025-01-04
Thermometer	Lutron	MHB-382SD	AH.50213	2025-01-04
Thermometer	Lutron	MHB-382SD	AH.91463	2025-01-04
Thermometer	Lutron	MHB-382SD	AJ.42446	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12102	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12103	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12123	2025-01-04
Thermometer	Lutron	MHB-382SD	AK.18789	2025-07-24
Thermometer	Lutron	MHB-382SD	AJ.45903	2025-01-04

Note(s):

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

Test Equipment (Continued)

E-Field Probe	SPEAG	EX3DV4	7330	2025-01-22
E-Field Probe	SPEAG	EX3DV4	7376	2025-07-17
E-Field Probe	SPEAG	EX3DV4	7313	2025-02-21
E-Field Probe	SPEAG	EX3DV4	7652	2025-04-22
E-Field Probe	SPEAG	EX3DV4	7645	2025-09-23
E-field Probe	SPEAG	EX3DV4	7646	2025-03-15
E-Field Probe	SPEAG	EX3DV4	7545	2025-09-03
E-Field Probe	SPEAG	EX3DV4	7314	2025-05-23
Data Acquisition Electronics	SPEAG	DAE4	1591	2025-02-16
Data Acquisition Electronics	SPEAG	DAE4	1343	2025-07-12
Data Acquisition Electronics	SPEAG	DAE4	1447	2025-03-13
Data Acquisition Electronics	SPEAG	DAE4	1667	2025-04-14
Data Acquisition Electronics	SPEAG	DAE4	1494	2025-07-15
Data Acquisition Electronics	SPEAG	DAE 4	1671	2025-04-18
Data Acquisition Electronics	SPEAG	DAE 4	1668	2025-05-23
Data Acquisition Electronics	SPEAG	DAE4	1670	2025-03-15
System Validation Dipole	SPEAG	D1750V2	1180	2025-10-15
System Validation Dipole	SPEAG	D1900V2	5d199	2025-03-13
System Validation Dipole	SPEAG	D2450V2	960	2025-03-14
System Validation Dipole	SPEAG	D2450V2	939	2025-07-10
System Validation Dipole	SPEAG	D2600V2	1097	2025-09-13
System Validation Dipole	SPEAG	D3500V2	1075	2025-05-19
System Validation Dipole	SPEAG	D3700V2	1036	2025-05-19
System Validation Dipole	SPEAG	D3900V2	1069	2025-04-21
System Validation Dipole	SPEAG	D750V3	1205	2025-04-18
System Validation Dipole	SPEAG	D835V2	4d174	2025-09-16
System Validation Dipole	SPEAG	D835V2	4d194	2025-03-11
System Validation Dipole	SPEAG	D5GHzV2	1325	2025-04-21
System Validation Dipole	SPEAG	CLA-13	1015	2025-08-22
Thermometer	Lutron	MHB-382SD	AK.18789	2025-07-24

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	150313	2025-07-24
Base Station Simulator	R & S	CMW500	150314	2025-07-24
Base Station Simulator	R & S	CMW500	162790	2025-07-25
Base Station Simulator	R & S	CMW500	169803	2025-03-25
Base Station Simulator	R & S	CMW500	169801	2025-01-03
Base Station Simulator	R & S	CMW500	169802	2025-01-03
Base Station Simulator	R & S	CMW500	169799	2025-07-25
Base Station Simulator	R & S	CMW500	169800	2025-07-24
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510596	2025-07-30
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY59150850	2025-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58120110	2025-01-03
Radio Communication Test Station	Anritsu	MT8000A	6272466165	2025-08-20
Radio Communication Analyzer	Anritsu	MT8821C	6161094351	2025-08-20

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 $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

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 = cxf/e	i = cxg/e	k
Uncertainty component	Reference	Tol. 1 g (±%)	Tol. 10 g (±%)	Prob. Dist.	Div.	ci (1 g)	ci (10 g)	1 g ui (± %)	10 g ui (± %)	vi
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 Uc(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	☒ The Back Cover is not removable.				
Battery Options	☒ 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. ☒ Mobile Hotspot (Wi-Fi 2.4 GHz) ☒ Mobile Hotspot (Wi-Fi 5.2GHz_UNII-1, Wi-Fi 5.8 GHz_UNII-3)				
Wi-Fi Direct	Wi-Fi Direct enabled devices transfer data directly between each other ☒ Wi-Fi Direct (Wi-Fi 2.4 GHz) ☒ 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
	1	R3CXA0PHH3D	Main Conducted	10	R3CXA0PHAQT
	2	R3CXA0PHA4W	Main Conducted	11	R3CXA0PH9AA
	3	R3CXA0PHKPF	Main Conducted	12	R3CXA0PHAFF
	4	R3CXA0PH7DH	Main Conducted	13	R3CXA0PH7WY
	5	R3CXA0PHAVR	Main Conducted	14	8b11aa682f347ece
	6	8b11aa6810347ece	WLAN Conducted	15	R3CXB0GBZ1R
	7	8b11aa6df4347ece	WLAN Conducted	16	R3CXB0GBHSM
	8	8b11ae3c50347ece	WLAN Conducted	17	R3CXB0GC66E
	9	R3CXA0PH9MT	SAR	18	R3CXA0PH9MT

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EGPRS (8PSK)	GPRS Multi-Slot Class: ☐ Class 8 - 1 Up, 4 Down ☐ Class 10 - 2 Up, 4 Down ☐ Class 12 - 4 Up, 4 Down ☒ Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25% 3 Slots: 37.5% 4 Slots: 50%
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No			
W-CDMA (UMTS)	Band II Band IV Band V	UMTS Rel. 99 (Voice & Data) HSDPA & DC-HSDPA (Category 24) HSUPA (Category 6) & HSPA+ (DL only)		100%
LTE	FDD Band 12 / Band 13 FDD Band 17 / Band 26 FDD Band 5 FDD Band 66 / Band 4 FDD Band 25 / Band 2 TDD Band 41	QPSK 16QAM 64QAM 256QAM Rel. 16 Carrier Aggregation (2 Uplink and 4 Downlinks)		100% (FDD) 63.3% (TDD) Power Class 3
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
NR (Sub6)	FDD Band n5 FDD Band n66 TDD Band n41 TDD Band n77 / n78	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)		98.78% (802.11b) 96.49% (802.11g)
	5 GHz	802.11a / 802.11n (HT20) & (HT40) 802.11ac (VHT20) & (VHT40) & (VHT80) 802.11ax (HE20) & (HE40) & (HE80)		86.07% (802.11ac (VHT80))
	Does this device support bands 5.60 ~ 5.65 GHz? ☐ Yes ☒ No			
	Does this device support Band gap channel(s)? ☐ Yes ☒ No			
Bluetooth	2.4 GHz	Version 5.4+LE		85.44% (LE)
NFC	13.56 MHz	Type A/B/F		100%

Notes:

1. Wi-Fi & Bluetooth were tested SAR using highest duty cycle. Measured duty cycle plots are in Section.9.
2. NR TDD Band n41 & n77 & n78 has support SRS(1,2,3,4) modes.
3. In addition to EN-DC modes 5G NR also supports inter-band uplink carrier aggregation. As this is not intra-band CA simultaneous transmission assessment is evaluated using the TAS, sum-SAR and SPLSR methods to combine the stand-alone SAR values for each individual band.
4. This device has support to DLCA (Down link carrier aggregation) in LTE and NR techs. But Uplink output power is not effect even if DLCA configurations are added. So DLCA cases do not need to be considered separately.

6.3. Time-Averaging feature

The equipment under test (EUT) contains the Qualcomm modems supporting 2G/3G/4G/5G 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.

But WLAN/BT/NFC does not support Qualcomm Smart Transmit feature. This technologies defines ER(External Ratio).

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} .

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G technology bands, and DSI = minimum of “ $P_{\text{Limit EFS}}$ ” 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.

Table 6.4.5 shows P_{Limit} NV settings and maximum tune up output power $P_{\max}$ configured for this EUT for various transmit conditions (DSI=Device State Index) in Sec.6.4.3.

Demonstrating compliance of EUT enabled with Qualcomm Smart Transmit is completed in three parts:

Part.0 : The SAR Characterization, denoted as SAR Char, determines the power limit that meets FCC exposure requirement after accounting for device design related uncertainties for each supported radio configuration and RF exposure usage scenario. The determined power limits will be loaded and stored in the EUT via the Embedded File System (EFS), and then used as inputs for Smart Transmit to operate.

Part.1 : Part 1 test is to demonstrate that EUT meets FCC SAR when the Tx power is at pre-determined maximum time-averaged power level for Radios of Supported TAS bands. The SAR measurement in Part 1 is under static transmission condition. The compliance for ER(External Ratio : Non Supported TAS bands) radio is demonstrated at a fixed power level (fixed = maximum RF tune-up level or power-back off level). The exposure from the simultaneous transmission of ER is evaluated in Part 1 report.

Part.2 : In Part 2 test, the compliance is assessed in Tx varying transmission condition to validate the Qualcomm Smart Transmit algorithm. The test results reported in Part 2 demonstrates that EUT complies with FCC RF exposure requirement under Tx varying transmission scenarios, thereby validity of Qualcomm Smart Transmit algorithm for FCC equipment authorization of EUT.

Notes:

This report is a combination of Part.0 and Part.1. and Part.2 provided as a separated report.

6.4. Part.0 Plimit Characterization

This section shows SAR characterization of WWAN radios. Characterization is achieved by determining P_{limit} for WWAN radios that correspond to the SAR_{design_target} after accounting for all device design related uncertainty.

6.4.1. Nomenclature for SAR Characterization

Table 6.4.1 Definitions for TAS algorithm

Term	Description
P_{limit}	Power level that corresponds to the exposure design target (SAR_{design_target}) after accounting for all device design related uncertainties
P_{max}	Maximum tune up output power
SAR_{design_target}	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
SAR_{Char}	Table containing P_{limit} for all technologies and bands

6.4.2. SAR Characterization

SAR_{Design_target} is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

Table 6.4.2 : Definitions of uncertainty and design target

SAR_{design_target}			
$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		10g SAR (W/kg)	
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB
$SAR_{regulatory_limit}$	1.6 W/kg	$SAR_{regulatory_limit}$	4.0 W/kg
SAR_{design_target}	1.0 W/kg	SAR_{design_target}	2.5 W/kg

6.4.3. DSI and Plimit Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the Tablet, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

The device state index (DSI) conditions used in below table represent different exposure scenarios.

Table 6.4.3 : DSI and Corresponding Exposure Scenarios

RF exposure Scenarios	DSI No.	Description	KDB guide For SAR test
Head	2	1. Device positioned next to ear. 2. Receiver Active.	KDB 648474 D04
Body-worn	0, 4	1. Device being used with a body-worn accessory. 2. Ear jack insert into phone.	KDB 648474 D04
Hotspot	3	1. Device transmit in hotspot mode near body. 2. Hotspot mode Active.	KDB 941225 D06
Phablet-10g	0, 4	1. Device are used near body with hand-held. 2. Ear jack insert into phone.	KDB 648474 D04 KDB 941225 D07

Note(s):

DSI Scenarios priority: DSI 2 → DSI 3

SAR results corresponding to P_{max} for each antenna/technology/band/DSI can be found in Section.10. P_{limit} is calculated by linearly scaling with the measured SAR at the P_{max} to correspond to the SAR_design_target. P_{limit} determination for each exposure scenario corresponding to SAR_design_target are shown in table.

Table 6.4.4 : P_{Limit} Determination

Device State Index (DSI)	P_{limit} Determination Scenarios
DSI = 0, 4	P_{limit} calculated based on Body-worn 1g SAR at 5 mm. >> test positions : Rear/Front P_{limit} calculated based on Near body 1g SAR at 5 mm. >> test positions : Rear/Front & Side edges with transmitting antenna located within 25mm from edge
DSI = 3	P_{limit} calculated based on Hotspot 1g SAR at 5 mm. >> test positions : Rear/Front & Side edges with transmitting antenna located within 25mm from edge
DSI = 2	P_{limit} calculated based on Head 1g SAR SAR at SAM phantom. >> test positions : Right Touch/Tilt & Left Touch/Tilt

Notes:

Body conditions (Body-worn / Near Body & Hotspot) tested to 1g SAR at 5mm test distance. So Phablet 10-g SAR test is not considered for determining P_{limit} in DSI=0,4.

Table 6.4.5 : P_{Limit} result according to technologies and bands in Each DSIs

Exposure condition		Head (RCV)	Body-worn & Near Body	Hotspot	Ear-jack	Near Body	Pmax (Maximum tune-up Power) (dBm)
Spatial-average		1g	1g	1g	1g	1g	
Test distance (mm)		0	5	5	5	0	
DSI		2	0	3	4	0	
RF Air Interface	Antenna	P _{limit} corresponding to 1.0 W/kg (SAR _{design_target}) (1g) / 2.5 W/kg (SAR _{design_target}) (10g)					Pmax (Maximum tune-up Power) (dBm)
GSM 850	Main.1	26.3	21.5	21.5	21.5	N/A	
GSM 1900	Main.2	27.7	18.3	18.3	18.3	N/A	
WCDMA Band II	Main.2	22.0	19.0	19.0	19.0	N/A	
WCDMA Band IV	Main.2	22.0	20.0	20.0	20.0	N/A	
WCDMA Band V	Main.1	25.7	22.0	22.0	22.0	N/A	
LTE Band 25 (2)	Main.2	25.9	19.0	19.0	19.0	N/A	
LTE Band 25 (2)	Sub.2	19.0	20.0	20.0	20.0	N/A	
LTE Band 5	Main.1	26.0	22.0	22.0	22.0	N/A	
LTE Band 12	Main.1	22.5	22.5	22.5	22.5	N/A	
LTE Band 13	Main.1	22.5	22.5	22.5	22.5	N/A	
LTE Band 17	Main.1	26.8	27.2	27.2	27.2	N/A	
LTE Band 26	Main.1	27.3	22.0	22.0	22.0	N/A	
LTE Band 41	Main.2	27.8	17.0	17.0	17.0	N/A	
LTE Band 41	Sub.2	17.0	17.0	17.0	17.0	N/A	
LTE Band 66 (4)	Main.2	28.2	19.0	19.0	19.0	N/A	
LTE Band 66 (4)	Sub.2	19.0	19.0	19.0	19.0	N/A	
NR Band n5	Main.1	27.0	23.5	23.5	23.5	N/A	
NR Band n66	Main.2	29.9	19.0	19.0	19.0	N/A	
NR Band n66	Sub.2	18.0	19.0	19.0	19.0	N/A	
NR Band n41 -SRS 1-	Main.2	31.5	17.0	17.0	17.0	N/A	
NR Band n41 -SRS 2-	Sub.2	18.0	18.0	18.0	18.0	N/A	
NR Band n41 -SRS 3-	Sub.4	13.0	13.0	13.0	13.0	N/A	
NR Band n41-SRS 4-	Sub.1	14.0	14.0	14.0	14.0	N/A	
NR Band n77(78) -SRS1-	Sub.3	12.5	14.0	14.0	14.0	N/A	
NR Band n77(78) -SRS2-	Main.2	16.0	17.0	17.0	17.0	N/A	
NR Band n77(78) -SRS3-	Sub.7	16.0	16.0	16.0	16.0	N/A	
NR Band n77(78) -SRS4-	Sub.8	16.0	16.0	16.0	16.0	N/A	

Notes:

1. If P_{limit} is higher than P_{max} for some modes / bands, The modes/bands will operate at a power level up to P_{max} .
2. P_{max} (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 P_{limit} EFS and maximum tune up output P_{max} 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. P_{limit} value listed above table is referenced from Sec.10. Some bands (Orange&Bule boxes) were determined more conservative P_{limit} instead of calculation P_{limit} Sec.10.

6.5. Maximum Allowed Output power

Maximum allowed output power means that Pmax or PLimit + 1.0dB device uncertainty for each DSI.

GSM Bands

RF Air interface	Antenna	Mode	Time Slots	Maximum allowed output power (dBm)									
				Pmax		PLimit							
						DSI = 0 (Free)		DSI = 2 (RCV)		DSI = 3 (Hotspot)		DSI = 4 (Earjack)	
						Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM850	Main.1	Voice	1	34.50	25.31	31.00	21.81	34.50	25.31	31.00	21.81	31.00	21.81
		GPRS	1	34.50	25.31	31.00	21.81	34.50	25.31	31.00	21.81	31.00	21.81
		GPRS	2	32.00	25.82	28.00	21.82	32.00	25.82	28.00	21.82	28.00	21.82
		GPRS	3	30.00	25.58	26.50	22.08	30.00	25.58	26.50	22.08	26.50	22.08
		GPRS	4	28.50	25.33	25.50	22.33	28.50	25.33	25.50	22.33	25.50	22.33
		EGPRS	1	27.00	17.81	27.00	17.81	27.00	17.81	27.00	17.81	27.00	17.81
		EGPRS	2	25.50	19.32	25.50	19.32	25.50	19.32	25.50	19.32	25.50	19.32
		EGPRS	3	23.50	19.08	23.50	19.08	23.50	19.08	23.50	19.08	23.50	19.08
GSM1900	Main.2	Voice	1	31.50	22.31	28.50	19.31	31.50	22.31	28.50	19.31	28.50	19.31
		GPRS	1	31.50	22.31	28.50	19.31	31.50	22.31	28.50	19.31	28.50	19.31
		GPRS	2	28.00	21.82	25.50	19.32	28.00	21.82	25.50	19.32	25.50	19.32
		GPRS	3	27.00	22.58	23.50	19.08	27.00	22.58	23.50	19.08	23.50	19.08
		GPRS	4	26.00	22.83	22.50	19.33	26.00	22.83	22.50	19.33	22.50	19.33
		EGPRS	1	27.00	17.81	25.50	16.31	27.00	17.81	25.50	16.31	25.50	16.31
		EGPRS	2	24.00	17.82	24.50	18.32	24.00	17.82	24.50	18.32	24.50	18.32
		EGPRS	3	22.00	17.58	22.50	18.08	22.00	17.58	22.50	18.08	22.50	18.08
GSM1900	Main.2	EGPRS	4	22.50	19.33	21.00	17.83	22.50	19.33	21.00	17.83	21.00	17.83

WCDMA Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0 (Free)	DSI = 2 (RCV)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
W-CDMA Band V	Main.1	R99	25.80	23.00	25.80	23.00	23.00
		HSDPA	23.80	22.00	23.80	22.00	22.00
		HSUPA	24.80	22.00	24.80	22.00	22.00
		DC-HSDPA	24.30	22.50	24.30	22.50	22.50
W-CDMA Band IV	Main.2	R99	25.00	21.00	23.00	21.00	21.00
		HSDPA	24.50	20.00	22.50	20.00	20.00
		HSUPA	24.50	20.00	22.50	20.00	20.00
		DC-HSDPA	24.50	20.00	22.50	20.00	20.00
W-CDMA Band II	Main.2	R99	25.00	20.00	23.00	20.00	20.00
		HSDPA	24.50	20.00	22.50	20.00	20.00
		HSUPA	24.50	20.00	22.50	20.00	20.00
		DC-HSDPA	24.50	20.00	22.50	20.00	20.00

Note(s):

1. Detail of DSI (Device State Index) conditions, please refer to Sec.6.4.3.

Maximum allowed output power means that Pmax or PLimit + 1.0dB device uncertainty for each DSI.

LTE Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0	DSI = 2	DSI = 3	DSI = 4
LTE FDD BAND 2	Sub.2	QPSK	25.00	20.00	20.00	20.00	20.00
LTE FDD BAND 4	Sub.2	QPSK	25.00	20.00	20.00	20.00	20.00
LTE FDD BAND 5	Main.1	QPSK	25.80	23.00	25.80	23.00	23.00
LTE FDD BAND 12	Main.1	QPSK	25.50	23.50	23.50	23.50	23.50
LTE FDD BAND 13	Main.1	QPSK	25.50	23.50	23.50	23.50	23.50
LTE FDD BAND 17	Main.1	QPSK	25.50	25.50	25.50	25.50	25.50
LTE FDD BAND 25	Main.2	QPSK	25.00	20.00	25.00	20.00	20.00
LTE FDD BAND 26	Main.1	QPSK	25.80	23.00	25.80	23.00	23.00
LTE FDD BAND 66	Sub.2	QPSK	25.50	20.00	20.00	20.00	20.00
LTE TDD BAND 41	Main.2	QPSK	25.50	20.00	25.50	20.00	20.00
LTE FDD BAND 2	Main.2	QPSK	25.00	20.00	25.00	20.00	20.00
LTE FDD BAND 4	Main.2	QPSK	25.00	20.00	25.00	20.00	20.00
LTE FDD BAND 66	Main.2	QPSK	25.00	20.00	25.00	20.00	20.00
LTE TDD BAND 41	Sub.2	QPSK	25.50	20.00	20.00	20.00	20.00
LTE FDD BAND 25	Sub.2	QPSK	25.00	21.00	20.00	21.00	21.00

NR-Sub6 Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)				
			Pmax	PLimit			
				DSI = 0	DSI = 2	DSI = 3	DSI = 4
NR FDD BAND n5	Main.1	DFT-s-OFDM QPSK	25.80	24.50	25.80	24.50	24.50
NR FDD BAND n66	Sub.2	DFT-s-OFDM QPSK	25.00	20.00	19.00	20.00	20.00
NR FDD BAND n66	Main.2	DFT-s-OFDM QPSK	25.00	20.00	25.00	20.00	20.00
NR TDD BAND n41 SRS 1	Main.2	DFT-s-OFDM QPSK	25.50	18.00	25.50	18.00	18.00
NR TDD BAND N41 SRS 2	Sub.2	SRS CW	21.00	19.00	19.00	19.00	19.00
NR TDD BAND N41 SRS 3	Sub.4	SRS CW	19.00	14.00	14.00	14.00	14.00
NR TDD BAND N41 SRS 4	Sub.1	SRS CW	17.00	15.00	15.00	15.00	15.00
NR TDD BAND n77 PC3 SRS 1	Sub.3	DFT-s-OFDM QPSK	25.50	15.00	13.50	15.00	15.00
NR TDD BAND n78 PC3 SRS 1	Sub.3	DFT-s-OFDM QPSK	25.50	15.00	13.50	15.00	15.00
NR TDD BAND n77 PC2 SRS1	Sub.3	DFT-s-OFDM QPSK	26.50	15.00	13.50	15.00	15.00
NR TDD BAND n78 PC2 SRS1	Sub.3	DFT-s-OFDM QPSK	26.50	15.00	13.50	15.00	15.00
NR TDD BAND N77 SRS 2	Main.2	SRS CW	20.50	18.00	17.00	18.00	18.00
NR TDD BAND N77 SRS 3	Sub.7	SRS CW	21.50	17.00	17.00	17.00	17.00
NR TDD BAND N77 SRS 4	Sub.8	SRS CW	18.00	17.00	17.00	17.00	17.00
NR TDD BAND N78 SRS 2	Main.2	SRS CW	20.50	18.00	17.00	18.00	18.00
NR TDD BAND N78 SRS 3	Sub.7	SRS CW	21.50	17.00	17.00	17.00	17.00
NR TDD BAND N78 SRS 4	Sub.8	SRS CW	18.00	17.00	17.00	17.00	17.00

Note(s):

1. Detail of DSI (Device State Index) conditions, please refer to Sec.6.4.3.

WLAN Bands maximum allowed output power

Maximum allowed output power means that target power + 1.0dB device uncertainty for each DSI.

WLAN output power (Max)

RF Air interface	Band	Maximum allowed output power (dBm)																	
		802.11 mode																	
		2.4GHz SISO (Sub.4) / 5GHz SISO (Sub.3)						2.4GHz SISO (Sub.6) / 5GHz SISO (Sub.5)						2.4GHz MIMO (Sub.4 + Sub.6) / 5GHz MIMO (Sub.3 + Sub.5)					
		a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)
WiFi 2.4 GHz	DTS	Ch 1~11	16	16	16	16	15	15	15	15	15	14	14	N/A	18.5	18.5	18.5	17.5	17.5
		Ch 12	6	6	6	6	6	5	5	5	5	5	5	N/A	8.5	8.5	8.5	8.5	8.5
		Ch 13	0	0	0	0	0	-1	-1	-1	-1	-1	-1	N/A	2.5	2.5	2.5	2.5	2.5
WiFi 5 GHz (BW : 20MHz)	UNII-1	UNII-1	11.0			11.0	11.0	11.0			11.0	11.0	11.0	14.0			14.0	14.0	14.0
		UNII-2A	11.0			11.0	11.0	11.0			11.0	11.0	11.0	14.0			14.0	14.0	14.0
		UNII-2C	11.0			11.0	11.0	11.0			11.0	11.0	11.0	14.0			14.0	14.0	14.0
		UNII-3	11.0			11.0	11.0	11.0			11.0	11.0	11.0	14.0			14.0	14.0	14.0
WiFi 5 GHz (BW : 40MHz)	UNII-1	UNII-1				11.0	11.0	11.0			11.0	11.0	11.0				14.0	14.0	14.0
		UNII-2A				11.0	11.0	11.0			11.0	11.0	11.0				14.0	14.0	14.0
		UNII-2C				11.0	11.0	11.0			11.0	11.0	11.0				14.0	14.0	14.0
		UNII-3				11.0	11.0	11.0			11.0	11.0	11.0				14.0	14.0	14.0
WiFi 5 GHz (BW : 80MHz)	UNII-1	UNII-1				11.0	11.0				11.0	11.0					14.0	14.0	
		UNII-2A				11.0	11.0				11.0	11.0					14.0	14.0	
		UNII-2C				11.0	11.0				11.0	11.0					14.0	14.0	
		UNII-3				11.0	11.0				11.0	11.0					14.0	14.0	

WLAN output power (Reduce)

RF Air interface	Band	Maximum allowed output power (dBm)																	
		802.11 mode																	
		2.4GHz SISO (Sub.4) / 5GHz SISO (Sub.3)						2.4GHz SISO (Sub.6) / 5GHz SISO (Sub.5)						2.4GHz MIMO (Sub.4 + Sub.6) / 5GHz MIMO (Sub.3 + Sub.5)					
		a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)	a	b	g	n	ac	ax(SU)
WiFi 2.4 GHz	DTS	Ch 1~11	13	13	13	13	13	12	12	12	12	12	12	N/A	15.5	15.5	15.5	15.5	15.5
		Ch 12	6	6	6	6	6	5	5	5	5	5	5	N/A	8.5	8.5	8.5	8.5	8.5
		Ch 13	0	0	0	0	0	-1	-1	-1	-1	-1	-1	N/A	2.5	2.5	2.5	2.5	2.5
WiFi 5 GHz (BW : 20MHz)	UNII-1	UNII-1	9.0			9.0	9.0	9.0			9.0	9.0	9.0	12.0			12.0	12.0	12.0
		UNII-2A	9.0			9.0	9.0	9.0			9.0	9.0	9.0	12.0			12.0	12.0	12.0
		UNII-2C	9.0			9.0	9.0	9.0			9.0	9.0	9.0	12.0			12.0	12.0	12.0
		UNII-3	9.0			9.0	9.0	9.0			9.0	9.0	9.0	12.0			12.0	12.0	12.0
WiFi 5 GHz (BW : 40MHz)	UNII-1	UNII-1				9.0	9.0	9.0			9.0	9.0	9.0				12.0	12.0	12.0
		UNII-2A				9.0	9.0	9.0			9.0	9.0	9.0				12.0	12.0	12.0
		UNII-2C				9.0	9.0	9.0			9.0	9.0	9.0				12.0	12.0	12.0
		UNII-3				9.0	9.0	9.0			9.0	9.0	9.0				12.0	12.0	12.0
WiFi 5 GHz (BW : 80MHz)	UNII-1	UNII-1				9.0	9.0				9.0	9.0					12.0	12.0	
		UNII-2A				9.0	9.0				9.0	9.0					12.0	12.0	
		UNII-2C				9.0	9.0				9.0	9.0					12.0	12.0	
		UNII-3				9.0	9.0				9.0	9.0					12.0	12.0	

Notes:

1. DTS supports SISO & MIMO mode. & UNII only supports MIMO mode.
2. WLAN(DTS & UNII) has support to reduced power during RCV active.

Bluetooth & Bluetooth LE maximum allowed output power

Maximum allowed output power means that target power + 1.0dB device uncertainty

RF Air interface	Channel	Maximum allowed output power (dBm)	
		Sub 4	Sub 6
Bluetooth (BDR) (1Mbps)	Low	12.5	10.5
	Mid	13.5	11.5
	High	11.5	9.0
Bluetooth (EDR) (2M / 3Mbps)	Low	11.0	9.5
	Mid	11.5	10.0
	High	10.0	8.0
Bluetooth (LE) (1M / 2M)	Low	12.5	10.5
	Mid	13.5	11.5
	High	11.5	9.0
Bluetooth (LE) (125k / 500kbps)	Low	8.0	
	Mid	9.0	
	High	7.0	

Notes:

1. BT/BLE Antennas operates only SISO mode
2. BLE (125k/500kbps) is not supported by Sub.6 ant, Only supported by Sub.4 ant.

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				23755/ 706.5		
	Mid			23790/ 710	23790/ 710		
	High				23825/ 713.5		
	Band 25	Frequency range: 1850 - 1915 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7
	Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5
	High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3
Band 26	Frequency range: 814 - 849 MHz						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low		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)

Item	Description																																																																				
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 <table> <tr> <th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr> <tr> <th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr> <tr> <td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr> <tr> <td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr> <tr> <td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr> <tr> <td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr> <tr> <td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr> <tr> <td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr> </table> MPR Built-in by design The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing							Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	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
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																																																														
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:

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

6.7. 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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Calculated Duty Cycle

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

Calculated Duty Cycle = Extended cyclic prefix in uplink $\times (T_s) \times \#$ 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.

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

Item	Description														
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band n5	Frequency range: 824 - 849 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											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 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		501204/ 2506.02	500700/ 2503.5	500202/ 2501.01	
	Low-Mid							516468/ 2567.34		510402/ 2552.01		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	
	Mid-High	528000/ 2640	528996/ 2644.98	529998/ 2649.99	531000/ 2655	529998/ 2649.99	523734/ 2618.67			527298/ 2634		527550/ 2636.49	527802/ 2637.75	527802/ 2639.01	
	High						534000/ 2670			534996/ 2674.98		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	630666/ 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	649668	649334	649000/ 3735	648668	648334	648000		647668/ 3715.02	647500/ 3712.5	647334	647168/ 3707.52	647000/ 3705	
	Low-Mid	/3750	/3745.02	/3740.01	653666/ 3804.99	653556	652166	651200		651000/ 3765	650900/ 3763.5	650800	650700/ 3762	650600/ 3760.5	
	Mid-A							654400		654334/ 3815.01	654300/ 3814.5	654266	654234/ 3813.99	654200/ 3813	
	Mid-B		656000	656000			656000	657600		657666/ 3864.99	657700/ 3864.5	657734	657766/ 3866.01	657800/ 3867	
	Mid-High				658334/ 3875.01	658444	659834	660800		661000/ 3915	661100/ 3916.5	661200	661300/ 3918	661400/ 3919.5	
	High	662000	662332	662666	663000/ 3945	663332	663666	664000		664332/ 3964.98	664500/ 3967.5	664666	664832/ 3972.48	665000/ 3975	

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

Frequency range, Channel Bandwidth, Numbers and Frequencies	Band n78 -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 n78	Frequency range: 3700 - 3800 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						648334/ 3725.01	647800/ 3720		647666/ 3715	647500/ 3712.5	647334/ 3710.01	647166/ 3707.5	647000/ 3705	
	Mid	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750				650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	
	High						651666/ 3774.99	652000/ 3780		652332/ 3784.98	652500/ 3787.5	652666/ 3789.99	652832/ 3792.48	653000/ 3795	
	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															
LTE Anchor Bands for NR Band n41		LTE Band 2/5/12/26/66													
LTE Anchor Bands for NRBand n5		LTE Band 2/66													
LTE Anchor Bands for NRBand n66		LTE Band 2/5/12/13													
LTE Anchor Bands for NRBand n77		LTE Band 2/5/12/13/25/66													
LTE Anchor Bands for NRBand n78		LTE Band 2/5/12/13/26/41/66													

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's 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.

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.

Wireless technologies	RF Exposure Conditions	Antenna	DUT-to-User Separation	Test Positions			
				Right Touch	Right Tilt	Left Touch	Left Tilt
WWAN & WLAN/BT	Head	All WWAN/WLAN/BT Antennas (Main1,2 Sub1,2,3,4,5,6,7,8,4+6.3+5)	0 mm	Yes	Yes	Yes	Yes

Wireless technologies	RF Exposure Conditions	Antenna	DUT-to-User Separation	Test Positions					
				Rear	Front	Top	Left	Bottom	Right
WWAN	Body-worn & Hotspot	Main.1	5 mm	Yes	Yes	No	No	Yes	Yes
		Main.2	5 mm	Yes	Yes	No	Yes	Yes	No
		Sub.1	5 mm	Yes	Yes	Yes	No	No	Yes
		Sub.2	5 mm	Yes	Yes	Yes	Yes	No	No
		Sub.3	5 mm	Yes	Yes	Yes	Yes	No	No
		Sub.4	5 mm	Yes	Yes	Yes	Yes	No	No
		Sub.7	5 mm	Yes	Yes	Yes	No	No	Yes
		Sub.8	5 mm	Yes	Yes	Yes	Yes	No	No
WLAN/BT	Body-worn & Hotspot	WiFi 2.4G/BT_Sub.4	5 mm	Yes	Yes	Yes	Yes	No	No
		WiFi 2.4G/BT_Sub.6	5 mm	Yes	Yes	No	No	No	Yes
		WiFi 5.2/5.8G_Sub.3	5 mm	Yes	Yes	Yes	Yes	No	No
		WiFi 5.2/5.8G_Sub.5	5 mm	Yes	Yes	No	Yes	No	No
	Body-worn & Near body ²	WiFi 5.3/5.5G_Sub.3	5 mm	Yes	Yes	Yes	Yes	No	No
		WiFi 5.3/5.5G_Sub.5	5 mm	Yes	Yes	No	Yes	No	No
NFC	Near body ²	NFC Ant.	5 mm	Yes	Yes	No	Yes	No	No

Notes:

This device is phablet, and SAR test is considered according to Sec.2.5 in KDB 648474 D04. SAR test generally considers Head/Body-worn/Hotspot exposure conditions. Additionally, Hand-held condition was considered by applying 1g Near body SAR at 5mm distance.

1. If some bands supports hotspot mode, SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 HotSpot SAR.
2. If some bands does not supports hotspot mode, then the bands considered Near body exposure condition. Near body exposure condition tested 1-g SAR on all surfaces and side edges with antenna located at ≤ 25mm from that surface or edge, at 5mm test distance.
3. NFC is not expected to be used in Head exposure condition. So NFC SAR was only considered about Near Body.
4. For Head exposure condition, All WWAN/WLAN/BT Antennas are required Head SAR test.
5. For Body-worn exposure condition, SAR test is considered for Rear and Front test positions.
6. The Body-worn/Near body minimum separation distance is 5mm. To cover both body-worn/Near body and hotspot RF exposure conditions testing was performed at a separation distance of 5mm.

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 1 Room**

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-12-04	Head 3500	e'	38.8200	Relative Permittivity (ε _r):	38.82	37.93	2.35	5
		e''	14.4400	Conductivity (σ):	2.81	2.91	-3.48	5
	Head 3600	e'	38.6600	Relative Permittivity (ε _r):	38.66	37.82	2.23	5
		e''	14.4900	Conductivity (σ):	2.90	3.01	-3.76	5
	Head 3700	e'	38.5100	Relative Permittivity (ε _r):	38.51	37.70	2.14	5
		e''	14.5500	Conductivity (σ):	2.99	3.12	-3.94	5
	Head 3800	e'	38.3800	Relative Permittivity (ε _r):	38.38	37.59	2.11	5
		e''	14.6400	Conductivity (σ):	3.09	3.22	-3.89	5
	Head 3900	e'	38.2200	Relative Permittivity (ε _r):	38.22	37.47	1.99	5
		e''	14.7300	Conductivity (σ):	3.19	3.32	-3.81	5
	Head 3980	e'	38.0900	Relative Permittivity (ε _r):	38.09	37.38	1.89	5
		e''	14.8100	Conductivity (σ):	3.28	3.40	-3.68	5

SAR 2 Room

Date	Freq. (MHz)	Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)	
2024-11-12	Head 1750	e'	40.1800	Relative Permittivity (ϵ_r):	40.18	40.08	0.24	5
		e''	13.7600	Conductivity (σ):	1.34	1.37	-2.20	5
	Head 1680	e'	40.2500	Relative Permittivity (ϵ_r):	40.25	40.19	0.14	5
		e''	13.9300	Conductivity (σ):	1.30	1.33	-2.12	5
	Head 1780	e'	40.1800	Relative Permittivity (ϵ_r):	40.18	40.04	0.35	5
		e''	13.7200	Conductivity (σ):	1.36	1.39	-2.02	5
2024-11-18	Head 1750	e'	40.3200	Relative Permittivity (ϵ_r):	40.32	40.08	0.59	5
		e''	13.4600	Conductivity (σ):	1.31	1.37	-4.33	5
	Head 1680	e'	40.4700	Relative Permittivity (ϵ_r):	40.47	40.19	0.69	5
		e''	13.6400	Conductivity (σ):	1.27	1.33	-4.16	5
	Head 1780	e'	40.2700	Relative Permittivity (ϵ_r):	40.27	40.04	0.58	5
		e''	13.3800	Conductivity (σ):	1.32	1.39	-4.45	5
2024-11-19	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	39.29	40.08	-1.98	5
		e''	13.7900	Conductivity (σ):	1.34	1.37	-1.98	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	39.39	40.19	-2.00	5
		e''	13.8200	Conductivity (σ):	1.29	1.33	-2.90	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	39.19	40.04	-2.12	5
		e''	13.7500	Conductivity (σ):	1.36	1.39	-1.80	5
2024-11-25	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	40.66	40.08	1.44	5
		e''	13.7900	Conductivity (σ):	1.33	1.37	-2.85	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	40.79	40.19	1.49	5
		e''	13.8200	Conductivity (σ):	1.30	1.33	-2.22	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	40.62	40.04	1.45	5
		e''	13.7500	Conductivity (σ):	1.34	1.39	-3.17	5
2024-11-28	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	39.54	40.08	-1.36	5
		e''	13.7900	Conductivity (σ):	1.32	1.37	-3.94	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	39.71	40.19	-1.20	5
		e''	13.8200	Conductivity (σ):	1.28	1.33	-3.80	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	39.50	40.04	-1.34	5
		e''	13.7500	Conductivity (σ):	1.33	1.39	-3.96	5
2024-12-02	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	38.78	40.08	-3.25	5
		e''	13.7900	Conductivity (σ):	1.31	1.37	-4.16	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	38.92	40.19	-3.17	5
		e''	13.8200	Conductivity (σ):	1.28	1.33	-3.95	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	38.71	40.04	-3.32	5
		e''	13.7500	Conductivity (σ):	1.33	1.39	-4.39	5
2024-12-06	Head 2450	e'	38.5100	Relative Permittivity (ϵ_r):	38.39	39.20	-2.07	5
		e''	13.3300	Conductivity (σ):	1.88	1.80	4.28	5
	Head 2400	e'	38.5400	Relative Permittivity (ϵ_r):	38.48	39.30	-2.08	5
		e''	13.3100	Conductivity (σ):	1.84	1.75	4.87	5
	Head 2500	e'	38.5100	Relative Permittivity (ϵ_r):	38.30	39.14	-2.14	5
		e''	13.3500	Conductivity (σ):	1.92	1.85	3.34	5
2024-12-09	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	40.38	40.08	0.74	5
		e''	13.7900	Conductivity (σ):	1.31	1.37	-4.23	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	40.52	40.19	0.82	5
		e''	13.8200	Conductivity (σ):	1.27	1.33	-4.25	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	40.32	40.04	0.70	5
		e''	13.7500	Conductivity (σ):	1.33	1.39	-4.25	5
2024-12-12	Head 1750	e'	39.2900	Relative Permittivity (ϵ_r):	39.01	40.08	-2.68	5
		e''	13.7900	Conductivity (σ):	1.39	1.37	1.61	5
	Head 1680	e'	39.3900	Relative Permittivity (ϵ_r):	39.13	40.19	-2.64	5
		e''	13.8200	Conductivity (σ):	1.35	1.33	1.62	5
	Head 1780	e'	39.1900	Relative Permittivity (ϵ_r):	38.97	40.04	-2.67	5
		e''	13.7500	Conductivity (σ):	1.41	1.39	1.52	5

SAR 2 Room (Continued)

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
2024-12-14	Head 2450	e'	38.6800	Relative Permittivity (ϵ_r):	38.39	39.20	-2.07	5
		e"	13.3500	Conductivity (σ):	1.88	1.80	4.28	5
	Head 2400	e'	38.7400	Relative Permittivity (ϵ_r):	38.48	39.30	-2.08	5
		e"	13.3800	Conductivity (σ):	1.84	1.75	4.87	5
	Head 2500	e'	38.6400	Relative Permittivity (ϵ_r):	38.30	39.14	-2.14	5
		e"	13.3600	Conductivity (σ):	1.92	1.85	3.34	5
2024-12-18	Head 2450	e'	39.3700	Relative Permittivity (ϵ_r):	38.39	39.20	-2.07	5
		e"	13.4100	Conductivity (σ):	1.88	1.80	4.28	5
	Head 2400	e'	39.4800	Relative Permittivity (ϵ_r):	38.48	39.30	-2.08	5
		e"	13.4600	Conductivity (σ):	1.84	1.75	4.87	5
	Head 2500	e'	39.3400	Relative Permittivity (ϵ_r):	38.30	39.14	-2.14	5
		e"	13.4000	Conductivity (σ):	1.92	1.85	3.34	5
2024-12-19	Head 1750	e'	40.4500	Relative Permittivity (ϵ_r):	39.01	40.08	-2.68	5
		e"	13.8700	Conductivity (σ):	1.39	1.37	1.61	5
	Head 1680	e'	40.6500	Relative Permittivity (ϵ_r):	39.13	40.19	-2.64	5
		e"	14.0300	Conductivity (σ):	1.35	1.33	1.62	5
	Head 1780	e'	40.3700	Relative Permittivity (ϵ_r):	38.97	40.04	-2.67	5
		e"	13.7800	Conductivity (σ):	1.41	1.39	1.52	5
2024-12-23	Head 2450	e'	39.5700	Relative Permittivity (ϵ_r):	38.39	39.20	-2.07	5
		e"	12.6300	Conductivity (σ):	1.88	1.80	4.28	5
	Head 2400	e'	39.6400	Relative Permittivity (ϵ_r):	38.48	39.30	-2.08	5
		e"	12.6500	Conductivity (σ):	1.84	1.75	4.87	5
	Head 2500	e'	39.5200	Relative Permittivity (ϵ_r):	38.30	39.14	-2.14	5
		e"	12.6300	Conductivity (σ):	1.92	1.85	3.34	5

SAR 3 Room

Date	Freq. (MHz)		Liquid Parameters		Measured	Target	Delta (%)	Limit ±(%)
2024-11-12	Head 1900	e'	38.6400	Relative Permittivity (ϵ_r):	38.64	40.00	-3.40	5
		e"	13.6500	Conductivity (σ):	1.44	1.40	3.00	5
	Head 1850	e'	38.6700	Relative Permittivity (ϵ_r):	38.67	40.00	-3.33	5
		e"	13.6800	Conductivity (σ):	1.41	1.40	0.51	5
	Head 1915	e'	38.6100	Relative Permittivity (ϵ_r):	38.61	40.00	-3.48	5
		e"	13.6400	Conductivity (σ):	1.45	1.40	3.74	5
2024-11-18	Head 1900	e'	38.7900	Relative Permittivity (ϵ_r):	38.79	40.00	-3.03	5
		e"	13.0200	Conductivity (σ):	1.38	1.40	-1.75	5
	Head 1850	e'	38.7700	Relative Permittivity (ϵ_r):	38.77	40.00	-3.07	5
		e"	13.1000	Conductivity (σ):	1.35	1.40	-3.75	5
	Head 1915	e'	38.7800	Relative Permittivity (ϵ_r):	38.78	40.00	-3.05	5
		e"	13.0200	Conductivity (σ):	1.39	1.40	-0.97	5
2024-11-20	Head 1900	e'	38.6800	Relative Permittivity (ϵ_r):	38.68	40.00	-3.30	5
		e"	13.3400	Conductivity (σ):	1.41	1.40	0.67	5
	Head 1850	e'	38.7200	Relative Permittivity (ϵ_r):	38.72	40.00	-3.20	5
		e"	13.4100	Conductivity (σ):	1.38	1.40	-1.47	5
	Head 1915	e'	38.6600	Relative Permittivity (ϵ_r):	38.66	40.00	-3.35	5
		e"	13.3300	Conductivity (σ):	1.42	1.40	1.38	5
2024-11-25	Head 1900	e'	40.8500	Relative Permittivity (ϵ_r):	40.85	40.00	2.13	5
		e"	12.9300	Conductivity (σ):	1.37	1.40	-2.43	5
	Head 1850	e'	40.8700	Relative Permittivity (ϵ_r):	40.87	40.00	2.17	5
		e"	13.0100	Conductivity (σ):	1.34	1.40	-4.41	5
	Head 1915	e'	40.8500	Relative Permittivity (ϵ_r):	40.85	40.00	2.13	5
		e"	12.9200	Conductivity (σ):	1.38	1.40	-1.73	5
2024-11-28	Head 2450	e'	38.6200	Relative Permittivity (ϵ_r):	38.62	39.20	-1.48	5
		e"	12.9200	Conductivity (σ):	1.76	1.80	-2.22	5
	Head 2400	e'	38.7200	Relative Permittivity (ϵ_r):	38.72	39.30	-1.47	5
		e"	12.9100	Conductivity (σ):	1.72	1.75	-1.65	5
	Head 2480	e'	38.6500	Relative Permittivity (ϵ_r):	38.65	39.16	-1.31	5
		e"	12.9400	Conductivity (σ):	1.78	1.83	-2.62	5
2024-12-02	Head 2450	e'	39.4000	Relative Permittivity (ϵ_r):	39.40	39.20	0.51	5
		e"	13.5000	Conductivity (σ):	1.84	1.80	2.17	5
	Head 2400	e'	39.5200	Relative Permittivity (ϵ_r):	39.52	39.30	0.57	5
		e"	13.5000	Conductivity (σ):	1.80	1.75	2.85	5
	Head 2480	e'	39.3200	Relative Permittivity (ϵ_r):	39.32	39.16	0.40	5
		e"	13.4900	Conductivity (σ):	1.86	1.83	1.52	5

SAR 3 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-12-04	Head 1900	e'	39.2300	Relative Permittivity (ε _r):	39.23	40.00	-1.93	5
		e''	13.5500	Conductivity (σ):	1.43	1.40	2.25	5
	Head 1850	e'	39.3700	Relative Permittivity (ε _r):	39.37	40.00	-1.58	5
		e''	13.6400	Conductivity (σ):	1.40	1.40	0.22	5
	Head 1915	e'	39.1600	Relative Permittivity (ε _r):	39.16	40.00	-2.10	5
		e''	13.5300	Conductivity (σ):	1.44	1.40	2.91	5
2024-12-09	Head 1900	e'	38.4600	Relative Permittivity (ε _r):	38.46	40.00	-3.85	5
		e''	13.2300	Conductivity (σ):	1.40	1.40	-0.16	5
	Head 1850	e'	38.4400	Relative Permittivity (ε _r):	38.44	40.00	-3.90	5
		e''	13.3100	Conductivity (σ):	1.37	1.40	-2.20	5
	Head 1915	e'	38.4600	Relative Permittivity (ε _r):	38.46	40.00	-3.85	5
		e''	13.2200	Conductivity (σ):	1.41	1.40	0.55	5
2024-12-09	Head 2450	e'	37.6800	Relative Permittivity (ε _r):	37.68	39.20	-3.88	5
		e''	12.9700	Conductivity (σ):	1.77	1.80	-1.84	5
	Head 2400	e'	37.8800	Relative Permittivity (ε _r):	37.88	39.30	-3.61	5
		e''	13.0000	Conductivity (σ):	1.73	1.75	-0.96	5
	Head 2480	e'	37.5800	Relative Permittivity (ε _r):	37.58	39.16	-4.04	5
		e''	12.9600	Conductivity (σ):	1.79	1.83	-2.47	5
2024-12-13	Head 2450	e'	39.7700	Relative Permittivity (ε _r):	39.77	39.20	1.45	5
		e''	13.4200	Conductivity (σ):	1.83	1.80	1.57	5
	Head 2400	e'	39.8600	Relative Permittivity (ε _r):	39.86	39.30	1.43	5
		e''	13.4400	Conductivity (σ):	1.79	1.75	2.39	5
	Head 2480	e'	39.7200	Relative Permittivity (ε _r):	39.72	39.16	1.42	5
		e''	13.4100	Conductivity (σ):	1.85	1.83	0.91	5
2024-12-16	Head 1900	e'	41.6400	Relative Permittivity (ε _r):	41.64	40.00	4.10	5
		e''	12.9500	Conductivity (σ):	1.37	1.40	-2.28	5
	Head 1850	e'	41.7500	Relative Permittivity (ε _r):	41.75	40.00	4.38	5
		e''	12.9700	Conductivity (σ):	1.33	1.40	-4.70	5
	Head 1915	e'	41.6000	Relative Permittivity (ε _r):	41.60	40.00	4.00	5
		e''	12.9400	Conductivity (σ):	1.38	1.40	-1.58	5
2024-12-17	Head 2450	e'	39.8500	Relative Permittivity (ε _r):	39.85	39.20	1.66	5
		e''	13.0300	Conductivity (σ):	1.78	1.80	-1.39	5
	Head 2400	e'	39.9600	Relative Permittivity (ε _r):	39.96	39.30	1.69	5
		e''	13.0600	Conductivity (σ):	1.74	1.75	-0.50	5
	Head 2480	e'	39.8000	Relative Permittivity (ε _r):	39.80	39.16	1.63	5
		e''	13.0100	Conductivity (σ):	1.79	1.83	-2.10	5
2024-12-19	Head 1750	e'	39.7000	Relative Permittivity (ε _r):	39.70	40.08	-0.96	5
		e''	13.8900	Conductivity (σ):	1.35	1.37	-1.27	5
	Head 1710	e'	39.7400	Relative Permittivity (ε _r):	39.74	40.15	-1.01	5
		e''	13.9300	Conductivity (σ):	1.32	1.35	-1.63	5
	Head 1780	e'	39.6500	Relative Permittivity (ε _r):	39.65	40.04	-0.97	5
		e''	13.8400	Conductivity (σ):	1.37	1.39	-1.16	5
2024-12-23	Head 2450	e'	39.3000	Relative Permittivity (ε _r):	39.30	39.20	0.26	5
		e''	13.3400	Conductivity (σ):	1.82	1.80	0.96	5
	Head 2400	e'	39.3700	Relative Permittivity (ε _r):	39.37	39.30	0.19	5
		e''	13.3100	Conductivity (σ):	1.78	1.75	1.40	5
	Head 2480	e'	39.2600	Relative Permittivity (ε _r):	39.26	39.16	0.25	5
		e''	13.3500	Conductivity (σ):	1.84	1.83	0.46	5

SAR 4 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-11-13	Head 2600	e'	39.5300	Relative Permittivity (ϵ_r):	39.53	39.01	1.33	5
		e''	13.2200	Conductivity (σ):	1.91	1.96	-2.60	5
	Head 2495	e'	39.5800	Relative Permittivity (ϵ_r):	39.58	39.14	1.12	5
		e''	13.1900	Conductivity (σ):	1.83	1.85	-1.02	5
	Head 2700	e'	39.3700	Relative Permittivity (ϵ_r):	39.37	38.88	1.25	5
		e''	13.3300	Conductivity (σ):	2.00	2.07	-3.34	5
2024-11-26	Head 3500	e'	38.7500	Relative Permittivity (ϵ_r):	38.75	37.93	2.16	5
		e''	14.7300	Conductivity (σ):	2.87	2.91	-1.54	5
	Head 3600	e'	38.5700	Relative Permittivity (ϵ_r):	38.57	37.82	2.00	5
		e''	14.8000	Conductivity (σ):	2.96	3.01	-1.70	5
	Head 3700	e'	38.4000	Relative Permittivity (ϵ_r):	38.40	37.70	1.85	5
		e''	14.8800	Conductivity (σ):	3.06	3.12	-1.76	5
	Head 3800	e'	38.2300	Relative Permittivity (ϵ_r):	38.23	37.59	1.71	5
		e''	14.9800	Conductivity (σ):	3.17	3.22	-1.66	5
	Head 3900	e'	38.0600	Relative Permittivity (ϵ_r):	38.06	37.47	1.57	5
		e''	15.0900	Conductivity (σ):	3.27	3.32	-1.46	5
	Head 3980	e'	37.9100	Relative Permittivity (ϵ_r):	37.91	37.38	1.41	5
		e''	15.1800	Conductivity (σ):	3.36	3.40	-1.27	5
2024-12-06	Head 3500	e'	37.8200	Relative Permittivity (ϵ_r):	37.82	37.93	-0.29	5
		e''	14.5200	Conductivity (σ):	2.83	2.91	-2.95	5
	Head 3600	e'	37.6600	Relative Permittivity (ϵ_r):	37.66	37.82	-0.41	5
		e''	14.5600	Conductivity (σ):	2.91	3.01	-3.30	5
	Head 3700	e'	37.5000	Relative Permittivity (ϵ_r):	37.50	37.70	-0.53	5
		e''	14.6200	Conductivity (σ):	3.01	3.12	-3.48	5
	Head 3800	e'	37.3500	Relative Permittivity (ϵ_r):	37.35	37.59	-0.63	5
		e''	14.6800	Conductivity (σ):	3.10	3.22	-3.63	5
	Head 3900	e'	37.1900	Relative Permittivity (ϵ_r):	37.19	37.47	-0.76	5
		e''	14.7700	Conductivity (σ):	3.20	3.32	-3.55	5
	Head 3980	e'	37.0700	Relative Permittivity (ϵ_r):	37.07	37.38	-0.83	5
		e''	14.8400	Conductivity (σ):	3.28	3.40	-3.49	5
2024-12-10	Head 3500	e'	37.7400	Relative Permittivity (ϵ_r):	37.74	37.93	-0.50	5
		e''	14.9600	Conductivity (σ):	2.91	2.91	-0.01	5
	Head 3600	e'	37.6300	Relative Permittivity (ϵ_r):	37.63	37.82	-0.49	5
		e''	15.0200	Conductivity (σ):	3.01	3.01	-0.24	5
	Head 3700	e'	37.5200	Relative Permittivity (ϵ_r):	37.52	37.70	-0.48	5
		e''	15.0700	Conductivity (σ):	3.10	3.12	-0.51	5
	Head 3800	e'	37.4000	Relative Permittivity (ϵ_r):	37.40	37.59	-0.50	5
		e''	15.1100	Conductivity (σ):	3.19	3.22	-0.81	5
	Head 3900	e'	37.2700	Relative Permittivity (ϵ_r):	37.27	37.47	-0.54	5
		e''	15.1600	Conductivity (σ):	3.29	3.32	-1.01	5
	Head 3980	e'	37.1400	Relative Permittivity (ϵ_r):	37.14	37.38	-0.65	5
		e''	15.2100	Conductivity (σ):	3.37	3.40	-1.08	5

SAR 5 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-11-12	Head 2600	e'	37.9000	Relative Permittivity (ϵ_r):	37.90	39.01	-2.85	5
		e''	13.6900	Conductivity (σ):	1.98	1.96	0.87	5
	Head 2495	e'	38.0700	Relative Permittivity (ϵ_r):	38.07	39.14	-2.74	5
		e''	13.7100	Conductivity (σ):	1.90	1.85	2.89	5
	Head 2700	e'	37.7700	Relative Permittivity (ϵ_r):	37.77	38.88	-2.87	5
		e''	13.7300	Conductivity (σ):	2.06	2.07	-0.44	5
2024-11-19	Head 2600	e'	39.8300	Relative Permittivity (ϵ_r):	39.83	39.01	2.10	5
		e''	13.4200	Conductivity (σ):	1.94	1.96	-1.12	5
	Head 2495	e'	40.0200	Relative Permittivity (ϵ_r):	40.02	39.14	2.24	5
		e''	13.6000	Conductivity (σ):	1.89	1.85	2.06	5
	Head 2700	e'	39.6000	Relative Permittivity (ϵ_r):	39.60	38.88	1.84	5
		e''	13.2300	Conductivity (σ):	1.99	2.07	-4.06	5
2024-12-02	Head 2600	e'	39.4500	Relative Permittivity (ϵ_r):	39.45	39.01	1.13	5
		e''	13.7300	Conductivity (σ):	1.98	1.96	1.16	5
	Head 2495	e'	39.6300	Relative Permittivity (ϵ_r):	39.63	39.14	1.24	5
		e''	13.7200	Conductivity (σ):	1.90	1.85	2.96	5
	Head 2700	e'	39.3100	Relative Permittivity (ϵ_r):	39.31	38.88	1.09	5
		e''	13.7500	Conductivity (σ):	2.06	2.07	-0.29	5
2024-12-06	Head 2600	e'	39.2200	Relative Permittivity (ϵ_r):	39.22	39.01	0.54	5
		e''	13.6000	Conductivity (σ):	1.97	1.96	0.20	5
	Head 2495	e'	39.3700	Relative Permittivity (ϵ_r):	39.37	39.14	0.58	5
		e''	13.6000	Conductivity (σ):	1.89	1.85	2.06	5
	Head 2700	e'	39.0700	Relative Permittivity (ϵ_r):	39.07	38.88	0.48	5
		e''	13.6600	Conductivity (σ):	2.05	2.07	-0.94	5
2024-12-16	Head 2600	e'	38.0000	Relative Permittivity (ϵ_r):	38.00	39.01	-2.59	5
		e''	13.2300	Conductivity (σ):	1.91	1.96	-2.52	5
	Head 2495	e'	38.1600	Relative Permittivity (ϵ_r):	38.16	39.14	-2.51	5
		e''	13.2200	Conductivity (σ):	1.83	1.85	-0.79	5
	Head 2700	e'	37.8000	Relative Permittivity (ϵ_r):	37.80	38.88	-2.79	5
		e''	13.2300	Conductivity (σ):	1.99	2.07	-4.06	5

SAR 7 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-12-09	Head 13	e'	54.2300	Relative Permittivity (ϵ_r):	54.23	55.00	-1.40	5
		e''	1057.0000	Conductivity (σ):	0.76	0.75	1.87	5
	Head 12	e'	54.2400	Relative Permittivity (ϵ_r):	54.24	55.00	-1.38	5
		e''	1145.0000	Conductivity (σ):	0.76	0.75	1.86	5
	Head 14	e'	54.1900	Relative Permittivity (ϵ_r):	54.19	55.00	-1.47	5
		e''	982.1000	Conductivity (σ):	0.76	0.75	1.93	5

SAR 8 Room

Date	Freq. (MHz)		Liquid Parameters	Measured	Target	Delta (%)	Limit ±(%)	
2024-11-12	Head 750	e'	42.1800	Relative Permittivity (ϵ_r):	42.18	41.96	0.52	5
		e''	21.1500	Conductivity (σ):	0.88	0.89	-1.24	5
	Head 660	e'	42.4600	Relative Permittivity (ϵ_r):	42.46	42.42	0.09	5
		e''	23.2300	Conductivity (σ):	0.85	0.89	-3.80	5
	Head 800	e'	42.0200	Relative Permittivity (ϵ_r):	42.02	41.71	0.75	5
		e''	20.2800	Conductivity (σ):	0.90	0.90	0.58	5
2024-11-12	Head 835	e'	41.8900	Relative Permittivity (ϵ_r):	41.89	41.50	0.94	5
		e''	19.7300	Conductivity (σ):	0.92	0.90	1.78	5
	Head 810	e'	41.9700	Relative Permittivity (ϵ_r):	41.97	41.65	0.76	5
		e''	20.1200	Conductivity (σ):	0.91	0.90	0.94	5
	Head 850	e'	41.8500	Relative Permittivity (ϵ_r):	41.85	41.50	0.84	5
		e''	19.1000	Conductivity (σ):	0.90	0.92	-1.34	5
2024-11-18	Head 750	e'	41.1600	Relative Permittivity (ϵ_r):	41.16	41.96	-1.91	5
		e''	20.9000	Conductivity (σ):	0.87	0.89	-2.41	5
	Head 660	e'	41.4400	Relative Permittivity (ϵ_r):	41.44	42.42	-2.32	5
		e''	22.9500	Conductivity (σ):	0.84	0.89	-4.96	5
	Head 800	e'	41.0300	Relative Permittivity (ϵ_r):	41.03	41.71	-1.62	5
		e''	19.9900	Conductivity (σ):	0.89	0.90	-0.86	5
2024-11-18	Head 835	e'	40.9200	Relative Permittivity (ϵ_r):	40.92	41.50	-1.40	5
		e''	19.4000	Conductivity (σ):	0.90	0.90	0.08	5
	Head 810	e'	41.0000	Relative Permittivity (ϵ_r):	41.00	41.65	-1.57	5
		e''	19.8200	Conductivity (σ):	0.89	0.90	-0.56	5
	Head 850	e'	40.8800	Relative Permittivity (ϵ_r):	40.88	41.50	-1.49	5
		e''	19.1600	Conductivity (σ):	0.91	0.92	-1.03	5
2024-11-21	Head 750	e'	40.9600	Relative Permittivity (ϵ_r):	40.96	41.96	-2.39	5
		e''	21.1700	Conductivity (σ):	0.88	0.89	-1.15	5
	Head 660	e'	41.2000	Relative Permittivity (ϵ_r):	41.20	42.42	-2.88	5
		e''	23.2900	Conductivity (σ):	0.85	0.89	-3.55	5
	Head 800	e'	40.8500	Relative Permittivity (ϵ_r):	40.85	41.71	-2.05	5
		e''	20.2600	Conductivity (σ):	0.90	0.90	0.48	5
2024-11-21	Head 835	e'	40.7500	Relative Permittivity (ϵ_r):	40.75	41.50	-1.81	5
		e''	19.6700	Conductivity (σ):	0.91	0.90	1.47	5
	Head 810	e'	40.8300	Relative Permittivity (ϵ_r):	40.83	41.65	-1.98	5
		e''	20.0800	Conductivity (σ):	0.90	0.90	0.74	5
	Head 850	e'	40.7100	Relative Permittivity (ϵ_r):	40.71	41.50	-1.90	5
		e''	19.4300	Conductivity (σ):	0.92	0.92	0.36	5
2024-11-25	Head 835	e'	42.4500	Relative Permittivity (ϵ_r):	42.45	41.50	2.29	5
		e''	19.7700	Conductivity (σ):	0.92	0.90	1.99	5
	Head 810	e'	42.5400	Relative Permittivity (ϵ_r):	42.54	41.65	2.13	5
		e''	20.1800	Conductivity (σ):	0.91	0.90	1.25	5
	Head 850	e'	42.4100	Relative Permittivity (ϵ_r):	42.41	41.50	2.19	5
		e''	19.5300	Conductivity (σ):	0.92	0.92	0.88	5
2024-12-16	Head 835	e'	40.7100	Relative Permittivity (ϵ_r):	40.71	41.50	-1.90	5
		e''	19.7700	Conductivity (σ):	0.92	0.90	1.99	5
	Head 810	e'	40.7900	Relative Permittivity (ϵ_r):	40.79	41.65	-2.07	5
		e''	20.1900	Conductivity (σ):	0.91	0.90	1.30	5
	Head 850	e'	40.6900	Relative Permittivity (ϵ_r):	40.69	41.50	-1.95	5
		e''	19.5600	Conductivity (σ):	0.92	0.92	1.03	5
2024-12-18	Head 5200	e'	36.6800	Relative Permittivity (ϵ_r):	36.68	35.99	1.92	5
		e''	15.5300	Conductivity (σ):	4.49	4.65	-3.46	5
	Head 5250	e'	36.6400	Relative Permittivity (ϵ_r):	36.64	35.93	1.97	5
		e''	15.5600	Conductivity (σ):	4.54	4.70	-3.40	5
	Head 5600	e'	36.2000	Relative Permittivity (ϵ_r):	36.20	35.53	1.87	5
		e''	15.6900	Conductivity (σ):	4.89	5.06	-3.45	5
	Head 5750	e'	35.9500	Relative Permittivity (ϵ_r):	35.95	35.36	1.66	5
		e''	15.6600	Conductivity (σ):	5.01	5.21	-3.97	5
	Head 5800	e'	35.7900	Relative Permittivity (ϵ_r):	35.79	35.30	1.39	5
		e''	15.6300	Conductivity (σ):	5.04	5.27	-4.35	5
	Head 5825	e'	35.7500	Relative Permittivity (ϵ_r):	35.75	35.30	1.27	5
		e''	15.6700	Conductivity (σ):	5.08	5.27	-3.69	5

SAR 8 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-12-23	Head 5200	e'	35.1100	Relative Permittivity (ϵ_r):	35.11	35.99	-2.45	5
		e''	15.9300	Conductivity (σ):	4.61	4.65	-0.97	5
	Head 5250	e'	35.2000	Relative Permittivity (ϵ_r):	35.20	35.93	-2.04	5
		e''	16.0200	Conductivity (σ):	4.68	4.70	-0.55	5
	Head 5600	e'	34.6500	Relative Permittivity (ϵ_r):	34.65	35.53	-2.49	5
		e''	16.1800	Conductivity (σ):	5.04	5.06	-0.44	5
	Head 5750	e'	34.4400	Relative Permittivity (ϵ_r):	34.44	35.36	-2.61	5
		e''	16.6100	Conductivity (σ):	5.31	5.21	1.86	5
	Head 5800	e'	34.6400	Relative Permittivity (ϵ_r):	34.64	35.30	-1.87	5
		e''	16.2600	Conductivity (σ):	5.24	5.27	-0.50	5
2024-12-23	Head 5825	e'	34.6600	Relative Permittivity (ϵ_r):	34.66	35.30	-1.81	5
		e''	16.3100	Conductivity (σ):	5.28	5.27	0.24	5
	Head 750	e'	42.1000	Relative Permittivity (ϵ_r):	42.10	41.96	0.33	5
		e''	21.3700	Conductivity (σ):	0.89	0.89	-0.21	5
	Head 660	e'	42.4600	Relative Permittivity (ϵ_r):	42.46	42.42	0.09	5
		e''	23.4700	Conductivity (σ):	0.86	0.89	-2.80	5
Head 800	e'	41.9700	Relative Permittivity (ϵ_r):	41.97	41.71	0.64	5	
	e''	20.4300	Conductivity (σ):	0.91	0.90	1.32	5	

SAR 9 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-11-19	Head 835	e'	40.0500	Relative Permittivity (ε _r):	40.05	41.50	-3.49	5
		e''	19.3200	Conductivity (σ):	0.90	0.90	-0.33	5
	Head 810	e'	40.1300	Relative Permittivity (ε _r):	40.13	41.65	-3.66	5
		e''	19.7300	Conductivity (σ):	0.89	0.90	-1.01	5
	Head 850	e'	40.0000	Relative Permittivity (ε _r):	40.00	41.50	-3.61	5
		e''	19.0800	Conductivity (σ):	0.90	0.92	-1.45	5
2024-12-17	Head 5200	e'	35.0600	Relative Permittivity (ε _r):	35.06	35.99	-2.58	5
		e''	15.6200	Conductivity (σ):	4.52	4.65	-2.90	5
	Head 5250	e'	35.0200	Relative Permittivity (ε _r):	35.02	35.93	-2.54	5
		e''	15.6900	Conductivity (σ):	4.58	4.70	-2.59	5
	Head 5600	e'	34.2300	Relative Permittivity (ε _r):	34.23	35.53	-3.67	5
		e''	15.9400	Conductivity (σ):	4.96	5.06	-1.91	5
	Head 5750	e'	34.0100	Relative Permittivity (ε _r):	34.01	35.36	-3.83	5
		e''	16.0600	Conductivity (σ):	5.13	5.21	-1.52	5
	Head 5800	e'	33.8800	Relative Permittivity (ε _r):	33.88	35.30	-4.02	5
		e''	16.1000	Conductivity (σ):	5.19	5.27	-1.48	5
	Head 5825	e'	33.8600	Relative Permittivity (ε _r):	33.86	35.30	-4.08	5
		e''	16.1600	Conductivity (σ):	5.23	5.27	-0.68	5
2024-12-23	Head 5200	e'	35.3200	Relative Permittivity (ε _r):	35.32	35.99	-1.86	5
		e''	16.0200	Conductivity (σ):	4.63	4.65	-0.41	5
	Head 5250	e'	35.2100	Relative Permittivity (ε _r):	35.21	35.93	-2.01	5
		e''	16.1200	Conductivity (σ):	4.71	4.70	0.08	5
	Head 5600	e'	34.8200	Relative Permittivity (ε _r):	34.82	35.53	-2.01	5
		e''	16.0100	Conductivity (σ):	4.99	5.06	-1.48	5
	Head 5750	e'	34.4100	Relative Permittivity (ε _r):	34.41	35.36	-2.69	5
		e''	16.5200	Conductivity (σ):	5.28	5.21	1.30	5
	Head 5800	e'	34.6300	Relative Permittivity (ε _r):	34.63	35.30	-1.90	5
		e''	16.1200	Conductivity (σ):	5.20	5.27	-1.35	5
	Head 5825	e'	34.5300	Relative Permittivity (ε _r):	34.53	35.30	-2.18	5
		e''	16.2300	Conductivity (σ):	5.26	5.27	-0.25	5
2024-12-23	Head 750	e'	40.8600	Relative Permittivity (ε _r):	40.86	41.96	-2.63	5
		e''	21.9100	Conductivity (σ):	0.91	0.89	2.31	5
	Head 660	e'	41.1500	Relative Permittivity (ε _r):	41.15	42.42	-3.00	5
		e''	24.4000	Conductivity (σ):	0.90	0.89	1.05	5
	Head 800	e'	40.7100	Relative Permittivity (ε _r):	40.71	41.71	-2.39	5
		e''	20.9100	Conductivity (σ):	0.93	0.90	3.70	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 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 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 ± 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements
- 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	1205	2023-04-18	2025-04-18	1g	8.55
				10g	5.59
D835V2	4d174	2024-09-16	2025-09-16	1g	9.44
				10g	6.09
D835V2	4d194	2024-03-11	2025-03-11	1g	9.86
				10g	6.45
D1750V2	1180	2024-10-15	2025-10-15	1g	37.00
				10g	19.70
D1900V2	5d199	2024-03-13	2025-03-13	1g	39.70
				10g	20.70
D2450V2	939	2024-07-10	2025-07-10	1g	52.20
				10g	24.40
D2450V2	960	2024-03-14	2025-03-14	1g	51.80
				10g	24.10
D2600V2	1097	2024-09-13	2025-09-13	1g	57.30
				10g	25.60
D3500V2	1075	2023-05-19	2025-05-19	1g	65.50
				10g	24.70
D3700V2	1036	2023-05-19	2025-05-19	1g	67.80
				10g	24.50
D3900V2	1069	2023-04-21	2025-04-21	1g	69.40
				10g	24.00
D5GHzV2 (5250 MHz)	1325	2023-04-21	2025-04-21	1g	79.6
				10g	22.7
D5GHzV2 (5600 MHz)	1325	2023-04-21	2025-04-21	1g	83.9
				10g	23.8
D5GHzV2 (5750 MHz)	1325	2023-04-21	2025-04-21	1g	80.4
				10g	22.7
D5GHzV2 (5800 MHz)	1325	2023-04-21	2025-04-21	1g	80.5
				10g	22.5
CLA-13	1015	2024-08-22	2025-08-22	1g	0.537
				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 1 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			
2024-12-04	D3500V2	1075	Head	1g	6.69	66.9	65.50	2.14	1
				10g	2.67	26.7	24.70	8.10	
2024-12-04	D3700V2	1036	Head	1g	6.83	68.3	67.80	0.74	
				10g	2.63	26.3	24.50	7.35	
2024-12-04	D3900V2	1069	Head	1g	7.08	70.8	69.40	2.02	
				10g	2.60	26.0	24.00	8.33	

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				
2024-11-12	D1750V2	1180	Head	1g	3.35	33.5	37.00	-9.46	2
				10g	1.82	18.2	19.70	-7.61	
2024-11-18	D1750V2	1180	Head	1g	3.40	34.0	37.00	-8.11	
				10g	1.82	18.2	19.70	-7.61	
2024-11-19	D1750V2	1180	Head	1g	3.46	34.6	37.00	-6.49	
				10g	1.85	18.5	19.70	-6.09	
2024-11-25	D1750V2	1180	Head	1g	3.46	34.6	37.00	-6.49	
				10g	1.85	18.5	19.70	-6.09	
2024-11-28	D1750V2	1180	Head	1g	3.63	36.3	37.00	-1.89	
				10g	1.95	19.5	19.70	-1.02	
2024-12-02	D1750V2	1180	Head	1g	3.39	33.9	37.00	-8.38	
				10g	1.81	18.1	19.70	-8.12	
2024-12-03	D1750V2	1180	Head	1g	3.43	34.3	37.00	-7.30	
				10g	1.82	18.2	19.70	-7.61	
2024-12-04	D1750V2	1180	Head	1g	3.54	35.4	37.00	-4.32	
				10g	1.87	18.7	19.70	-5.08	
2024-12-06	D2450V2	960	Head	1g	5.17	51.7	51.90	-0.39	
				10g	2.41	24.1	24.00	0.42	
2024-12-09	D1750V2	1180	Head	1g	3.54	35.4	37.00	-4.32	
				10g	1.89	18.9	19.70	-4.06	
2024-12-10	D1750V2	1180	Head	1g	3.61	36.1	37.00	-2.43	
				10g	1.92	19.2	19.70	-2.54	
2024-12-12	D1750V2	1180	Head	1g	3.58	35.8	37.00	-3.24	
				10g	1.90	19.0	19.70	-3.55	
2024-12-13	D1750V2	1180	Head	1g	3.70	37.0	37.00	0.00	
				10g	1.97	19.7	19.70	0.00	
2024-12-14	D2450V2	960	Head	1g	5.04	50.4	51.90	-2.89	
				10g	2.35	23.5	24.00	-2.08	
2024-12-14	D2450V2	960	Head	1g	4.75	47.5	51.90	-8.48	
				10g	2.21	22.1	24.00	-7.92	
2024-12-18	D2450V2	960	Head	1g	4.76	47.6	51.90	-8.29	
				10g	2.21	22.1	24.00	-7.92	
2024-12-19	D1750V2	1180	Head	1g	3.47	34.7	37.00	-6.22	
				10g	1.84	18.4	19.70	-6.60	
2024-12-23	D2450V2	960	Head	1g	4.68	46.8	51.90	-9.83	3
				10g	2.19	21.9	24.00	-8.75	

SAR 3 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2024-11-12	D1900V2	5d199	Head	1g	4.00	40.0	39.70	0.76
				10g	2.08	20.8	20.70	0.48
2024-11-18	D1900V2	5d199	Head	1g	4.04	40.4	39.70	1.76
				10g	2.10	21.0	20.70	1.45
2024-11-20	D1900V2	5d199	Head	1g	4.04	40.4	39.70	1.76
				10g	2.11	21.1	20.70	1.93
2024-11-25	D1900V2	5d199	Head	1g	3.83	38.3	39.70	-3.53
				10g	2.00	20.0	20.70	-3.38
2024-11-28	D2450V2	939	Head	1g	4.92	49.2	52.20	-5.75
				10g	2.31	23.1	24.40	-5.33
2024-12-02	D2450V2	939	Head	1g	5.19	51.9	52.20	-0.57
				10g	2.43	24.3	24.40	-0.41
2024-12-03	D2450V2	939	Head	1g	5.22	52.2	52.20	0.00
				10g	2.43	24.3	24.40	-0.41
2024-12-04	D1900V2	5d199	Head	1g	4.01	40.1	39.70	1.01
				10g	2.09	20.9	20.70	0.97
2024-12-05	D1900V2	5d199	Head	1g	3.89	38.9	39.70	-2.02
				10g	2.03	20.3	20.70	-1.93
2024-12-06	D1900V2	5d199	Head	1g	3.93	39.3	39.70	-1.01
				10g	2.05	20.5	20.70	-0.97
2024-12-09	D1900V2	5d199	Head	1g	3.97	39.7	39.70	0.00
				10g	2.08	20.8	20.70	0.48
2024-12-10	D1900V2	5d199	Head	1g	3.92	39.2	39.70	-1.26
				10g	2.05	20.5	20.70	-0.97
2024-12-10	D2450V2	939	Head	1g	5.08	50.8	52.20	-2.68
				10g	2.38	23.8	24.40	-2.46
2024-12-13	D2450V2	960	Head	1g	5.11	51.1	51.80	-1.35
				10g	2.40	24.0	24.10	-0.41
2024-12-16	D1900V2	5d199	Head	1g	3.88	38.8	39.70	-2.27
				10g	2.03	20.3	20.70	-1.93
2024-12-18	D2450V2	960	Head	1g	5.17	51.7	51.80	-0.19
				10g	2.42	24.2	24.10	0.41
2024-12-19	D2450V2	960	Head	1g	5.22	52.2	51.80	0.77
				10g	2.45	24.5	24.10	1.66
2024-12-19	D1750V2	1180	Head	1g	3.56	35.6	37.00	-3.78
				10g	1.91	19.1	19.70	-3.05
2024-12-23	D2450V2	960	Head	1g	5.30	53.0	51.80	2.32
				10g	2.48	24.8	24.10	2.90
2024-12-24	D2450V2	960	Head	1g	5.25	52.5	51.80	1.35
				10g	2.47	24.7	24.10	2.49

SAR 4 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2024-11-13	D2600V2	1097	Head	1g	5.31	53.1	57.30	-7.33
				10g	2.39	23.9	25.60	-6.64
2024-11-26	D3500V2	1075	Head	1g	5.99	59.9	65.50	-8.55
				10g	2.28	22.8	24.70	-7.69
2024-11-26	D3700V2	1036	Head	1g	6.58	65.8	67.80	-2.95
				10g	2.42	24.2	24.50	-1.22
2024-11-26	D3900V2	1069	Head	1g	6.80	68.0	69.40	-2.02
				10g	2.39	23.9	24.00	-0.42
2024-12-06	D3500V2	1075	Head	1g	6.64	66.4	65.50	1.37
				10g	2.64	26.4	24.70	6.88
2024-12-06	D3700V2	1036	Head	1g	6.72	67.2	67.80	-0.88
				10g	2.60	26.0	24.50	6.12
2024-12-06	D3900V2	1069	Head	1g	7.09	70.9	69.40	2.16
				10g	2.61	26.1	24.00	8.75
2024-12-10	D3500V2	1075	Head	1g	6.61	66.1	65.50	0.92
				10g	2.63	26.3	24.70	6.48
2024-12-10	D3700V2	1036	Head	1g	6.71	67.1	67.80	-1.03
				10g	2.59	25.9	24.50	5.71
2024-12-10	D3900V2	1069	Head	1g	6.95	69.5	69.40	0.14
				10g	2.58	25.8	24.00	7.50

SAR 5 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2024-11-12	D2600V2	1097	Head	1g	5.89	58.9	57.30	2.79
				10g	2.70	27.0	25.70	5.06
2024-11-19	D2600V2	1097	Head	1g	5.94	59.4	57.30	3.66
				10g	2.73	27.3	25.70	6.23
2024-12-02	D2600V2	1097	Head	1g	5.62	56.2	57.30	-1.92
				10g	2.54	25.4	25.70	-1.17
2024-12-06	D2600V2	1097	Head	1g	5.53	55.3	57.30	-3.49
				10g	2.48	24.8	25.70	-3.50
2024-12-16	D2600V2	1097	Head	1g	5.40	54.0	57.30	-5.76
				10g	2.42	24.2	25.70	-5.84

SAR 7 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2025-12-09	CLA-13	1015	Head	1g	0.058	0.6	0.54	8.01
				10g	0.036	0.4	0.33	8.11

SAR 8 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2024-11-12	D750V3	1205	Head	1g	0.86	8.6	8.55	0.23
				10g	0.57	5.7	5.59	1.07
2024-11-12	D835V2	4d174	Head	1g	1.00	10.0	9.44	5.93
				10g	0.66	6.6	6.09	7.72
2024-11-18	D750V3	1205	Head	1g	0.85	8.5	8.55	-0.94
				10g	0.56	5.6	5.59	-0.18
2024-11-18	D835V2	4d174	Head	1g	0.99	9.9	9.44	4.45
				10g	0.65	6.5	6.09	6.08
2024-11-21	D835V2	4d174	Head	1g	1.01	10.1	9.44	6.99
				10g	0.67	6.7	6.09	9.20
2024-11-21	D750V3	1205	Head	1g	0.86	8.6	8.55	0.47
				10g	0.57	5.7	5.59	2.33
2024-11-22	D750V3	1205	Head	1g	0.89	8.9	8.55	4.56
				10g	0.60	6.0	5.59	6.44
2024-11-22	D835V2	4d174	Head	1g	0.98	9.8	9.44	3.81
				10g	0.65	6.5	6.09	6.08
2024-11-25	D835V2	4d174	Head	1g	0.99	9.9	9.44	4.98
				10g	0.65	6.5	6.09	6.90
2024-12-18	D835V2	4d174	Head	1g	1.01	10.1	9.44	6.99
				1g	0.66	6.6	6.09	8.70
2024-12-18	D5GHzV2 (5250)	1325	Head	1g	8.14	81.4	79.60	2.26
				1g	2.25	22.5	22.70	-0.88
2024-12-23	D5GHzV2 (5250)	1325	Head	1g	8.43	84.3	79.60	5.90
				1g	2.44	24.4	22.70	7.49
2024-12-23	D750V3	1205	Head	1g	0.81	8.1	8.55	-5.15
				10g	0.54	5.4	5.59	-3.22

SAR 9 Room

Date Tested	System Dipole		T.S. Liquid	Measured Results		Target (Ref. Value)	Delta $\pm 10\%$	Plot No.
	Type	Serial #		Zoom Scan to 100 mW	Normalize to 1 W			
2024-11-19	D835V2	4d194	Head	1g	0.97	9.7	9.77	-0.31
				10g	0.64	6.4	6.39	0.47
2024-12-17	D5GHzV2 (5600)	1325	Head	1g	8.56	85.6	83.90	2.03
				10g	2.51	25.1	23.80	5.46
2024-12-17	D5GHzV2 (5750)	1325	Head	1g	8.03	80.3	80.40	-0.12
				10g	2.36	23.6	22.70	3.96
2024-12-17	D5GHzV2 (5800)	1325	Head	1g	8.14	81.4	80.50	1.12
				10g	2.38	23.8	22.50	5.78
2024-12-23	D5GHzV2 (5600)	1325	Head	1g	8.64	86.4	83.90	2.98
				10g	2.54	25.4	23.80	6.72
2024-12-23	D5GHzV2 (5750)	1325	Head	1g	8.13	81.3	80.40	1.12
				10g	2.39	23.9	22.70	5.29
2024-12-23	D5GHzV2 (5800)	1325	Head	1g	8.38	83.8	80.50	4.10
				10g	2.44	24.4	22.50	8.44
2024-12-23	D750V3	1205	Head	1g	0.81	8.1	8.55	-4.91
				10g	0.54	5.4	5.59	-3.58

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 (Main 1) Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)				Maximum Allowed Average Power (dBm)			
					DSI = 0, 3, 4				DSI = 2			
					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	128	824.2	28.83	19.64	31.0	21.8	32.61	23.42	34.5	25.3
			190	836.6	29.30	20.11			32.43	23.24		
			251	848.8	29.18	19.99			32.99	23.80		
GPRS (GMSK)	CS1	1	128	824.2	29.44	20.25	31.0	21.8	32.34	23.15	34.5	25.3
			190	836.6	29.25	20.06			32.08	22.89		
			251	848.8	29.12	19.93			32.63	23.44		
		2	128	824.2	26.24	20.06	28.0	21.8	30.79	24.61	32.0	25.8
			190	836.6	26.17	19.99			30.69	24.51		
			251	848.8	26.09	19.91			30.49	24.31		
		3	128	824.2	24.49	20.07	26.5	22.1	28.79	24.37	30.0	25.6
			190	836.6	24.37	19.95			28.59	24.17		
			251	848.8	24.27	19.85			28.44	24.02		
		4	128	824.2	23.23	20.06	25.5	22.3	26.90	23.73	28.5	25.3
			190	836.6	23.65	20.48			26.82	23.65		
			251	848.8	23.16	19.99			26.56	23.39		
EGPRS (8PSK)	MCS5	1	128	824.2	25.91	16.72	27.0	17.8	26.10	16.91	27.0	17.8
			190	836.6	26.38	17.19			26.42	17.23		
			251	848.8	26.23	17.04			26.33	17.14		
		2	128	824.2	24.29	18.11	25.5	19.3	24.53	18.35	25.5	19.3
			190	836.6	24.18	18.00			24.40	18.22		
			251	848.8	24.03	17.85			24.15	17.97		
		3	128	824.2	22.14	17.72	23.5	19.1	22.53	18.11	23.5	19.1
			190	836.6	21.92	17.50			22.39	17.97		
			251	848.8	21.97	17.55			22.16	17.74		
		4	128	824.2	21.21	18.04	22.5	19.3	21.40	18.23	22.5	19.3
			190	836.6	21.22	18.05			21.25	18.08		
			251	848.8	21.09	17.92			21.32	18.15		

Notes:

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

- GMSK (GPRS) mode with 4 time slots for DSI 0, 3, 4, based on the Tune-up Procedure. Refer to §6.3.
- GMSK (GPRS) mode with 2 time slots for DSI 2, 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.

GSM1900(Main.2) Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)				Maximum Allowed Average Power (dBm)			
					DSI = 0, 3, 4				DSI = 2			
					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	27.59	18.40	28.5	19.3	29.37	20.18	31.5	22.31
			661	1880.0	27.65	18.46			30.20	21.01		
			810	1909.8	27.49	18.30			29.97	20.78		
GPRS (GMSK)	CS1	1	512	1850.2	27.56	18.37	28.5	19.3	29.67	20.48	31.5	22.31
			661	1880.0	27.55	18.36			29.91	20.72		
			810	1909.8	27.39	18.20			29.65	20.46		
		2	512	1850.2	24.20	18.02	25.5	19.3	26.71	20.53	28.0	21.8
			661	1880.0	24.21	18.03			26.83	20.65		
			810	1909.8	24.27	18.09			26.76	20.58		
		3	512	1850.2	22.52	18.10	23.5	19.1	25.12	20.70	27.0	22.6
			661	1880.0	22.53	18.11			25.28	20.86		
			810	1909.8	22.31	17.89			25.22	20.80		
		4	512	1850.2	21.01	17.84	22.5	19.33	23.72	20.55	26.0	22.83
			661	1880.0	21.06	17.89			24.10	20.93		
			810	1909.8	20.93	17.76			23.74	20.57		
EGPRS (8PSK)	MCS5	1	512	1850.2	24.71	15.52	25.5	16.3	24.82	15.63	27.0	17.8
			661	1880.0	24.69	15.50			25.21	16.02		
			810	1909.8	24.72	15.53			25.05	15.86		
		2	512	1850.2	23.34	17.16	24.5	18.3	23.24	17.06	24.0	17.8
			661	1880.0	23.26	17.08			23.24	17.06		
			810	1909.8	23.25	17.07			23.14	16.96		
		3	512	1850.2	21.29	16.87	22.5	18.1	21.22	16.80	22.0	17.6
			661	1880.0	21.55	17.13			21.40	16.98		
			810	1909.8	21.50	17.08			21.39	16.97		
		4	512	1850.2	20.33	17.16	21.0	17.8	20.51	17.34	22.5	19.3
			661	1880.0	20.48	17.31			20.58	17.41		
			810	1909.8	20.39	17.22			20.53	17.36		

Notes:

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

- GMSK (GPRS) mode with 4 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.

9.2. W-CDMA

Release 99 Setup Procedures used to establish the test signals

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

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

HSDPA Setup Procedures used to establish the test signals

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

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

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

The following 5 Sub-tests were completed according to Release 6 procedures in 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
HSDPA Specific Settings	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0
	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
HSUPA Specific Settings	CQI Repetition Factor (Table 5.2B.4)	2				
	A _{hs} = β_{hs}/β_c	30/15				
	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

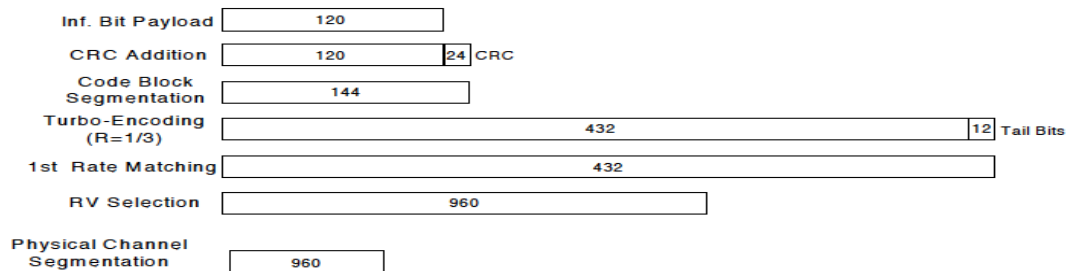
Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

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
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	MPR (dB)	0	0	0.5	0.5
	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	A _{hs} = β_{hs}/β_c	30/15			

HSPA+

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

W-CDMA Band II (Main.2) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				DSI = 0, 3, 4			DSI = 2		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	19.50	N/A	20.0	22.45	N/A	23.0
		9400	1880.0	19.61			22.51		
		9538	1907.6	19.54			22.41		
HSDPA	Subtest 1	9262	1852.4	18.53	0	20.0	21.50	0	22.5
		9400	1880.0	18.61			21.50		
		9538	1907.6	18.54			21.40		
	Subtest 2	9262	1852.4	18.55	0	20.0	21.44	0	22.5
		9400	1880.0	18.66			21.50		
		9538	1907.6	18.54			21.42		
	Subtest 3	9262	1852.4	18.03	0.5	19.5	20.96	0.5	22.0
		9400	1880.0	18.13			20.98		
		9538	1907.6	18.03			20.89		
	Subtest 4	9262	1852.4	18.03	0.5	19.5	20.93	0.5	22.0
		9400	1880.0	18.07			20.97		
		9538	1907.6	18.01			20.89		
HSUPA	Subtest 1	9262	1852.4	18.49	0	20.0	21.42	0	22.5
		9400	1880.0	18.58			21.51		
		9538	1907.6	18.56			21.30		
	Subtest 2	9262	1852.4	16.56	2	18.0	19.37	2	20.5
		9400	1880.0	16.57			19.41		
		9538	1907.6	16.43			19.32		
	Subtest 3	9262	1852.4	18.41	1	19.0	20.36	1	21.5
		9400	1880.0	18.37			20.46		
		9538	1907.6	18.47			20.35		
	Subtest 4	9262	1852.4	16.54	2	18.0	19.37	2	20.5
		9400	1880.0	16.75			19.57		
		9538	1907.6	16.57			19.34		
	Subtest 5	9262	1852.4	18.47	0	20.0	21.43	0	22.5
		9400	1880.0	18.70			21.50		
		9538	1907.6	18.49			21.47		
DC-HSDPA	Subtest 1	9262	1852.4	18.51	0	20.0	21.45	0	22.5
		9400	1880.0	18.64			21.52		
		9538	1907.6	18.56			21.41		
	Subtest 2	9262	1852.4	18.51	0	20.0	21.46	0	22.5
		9400	1880.0	18.64			21.54		
		9538	1907.6	18.56			21.42		
	Subtest 3	9262	1852.4	18.04	0.5	19.5	20.96	0.5	22.0
		9400	1880.0	18.14			20.99		
		9538	1907.6	18.06			20.89		
	Subtest 4	9262	1852.4	18.00	0.5	19.5	20.93	0.5	22.0
		9400	1880.0	18.14			20.99		
		9538	1907.6	18.04			20.89		

W-CDMA Band IV(Main.2) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				DSI = 0, 3, 4			DSI = 2		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	19.17	N/A	21.0	22.38	N/A	23.0
		1413	1732.6	19.36			22.43		
		1513	1752.6	19.49			22.56		
HSDPA	Subtest 1	1312	1712.4	18.10	0	20.0	21.40	0	22.5
		1413	1732.6	18.34			21.40		
		1513	1752.6	18.49			21.56		
	Subtest 2	1312	1712.4	18.10	0	20.0	21.38	0	22.5
		1413	1732.6	18.36			21.39		
		1513	1752.6	18.47			21.55		
	Subtest 3	1312	1712.4	17.60	0.5	19.5	20.84	0.5	22.0
		1413	1732.6	17.79			20.68		
		1513	1752.6	17.95			21.02		
	Subtest 4	1312	1712.4	17.60	0.5	19.5	20.78	0.5	22.0
		1413	1732.6	17.84			20.90		
		1513	1752.6	17.96			21.03		
HSUPA	Subtest 1	1312	1712.4	18.08	0	20.0	21.44	0	22.5
		1413	1732.6	18.29			21.52		
		1513	1752.6	18.39			21.62		
	Subtest 2	1312	1712.4	16.15	2	18.0	19.37	2	20.5
		1413	1732.6	16.37			19.98		
		1513	1752.6	16.44			19.50		
	Subtest 3	1312	1712.4	17.13	1	19.0	20.25	1	21.5
		1413	1732.6	17.27			20.38		
		1513	1752.6	17.43			20.50		
	Subtest 4	1312	1712.4	16.13	2	18.0	19.41	2	20.5
		1413	1732.6	16.34			19.14		
		1513	1752.6	16.43			19.61		
	Subtest 5	1312	1712.4	18.15	0	20.0	20.05	0	22.5
		1413	1732.6	18.37			20.13		
		1513	1752.6	18.44			20.24		
DC-HSDPA	Subtest 1	1312	1712.4	18.13	0	20.0	21.36	0	22.5
		1413	1732.6	18.33			21.41		
		1513	1752.6	18.46			21.54		
	Subtest 2	1312	1712.4	18.11	0	20.0	21.36	0	22.5
		1413	1732.6	18.34			21.42		
		1513	1752.6	18.44			21.55		
	Subtest 3	1312	1712.4	17.66	0.5	19.5	20.90	0.5	22.0
		1413	1732.6	17.83			20.78		
		1513	1752.6	17.96			21.02		
	Subtest 4	1312	1712.4	17.61	0.5	19.5	20.87	0.5	22.0
		1413	1732.6	17.86			20.88		
		1513	1752.6	17.98			21.00		

W-CDMA Band V (Main 1) Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				DSI = 0, 3, 4			DSI = 2		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	22.66	N/A	23.0	24.25	N/A	25.8
		4183	836.6	22.52			24.55		
		4233	846.6	22.39			23.98		
HSDPA	Subtest 1	4132	826.4	21.67	0	22.0	23.23	0	23.8
		4183	836.6	21.51			23.05		
		4233	846.6	21.42			23.03		
	Subtest 2	4132	826.4	21.70	0	22.0	23.25	0	23.8
		4183	836.6	21.52			23.08		
		4233	846.6	21.41			23.04		
	Subtest 3	4132	826.4	21.17	0.5	21.5	22.73	0.5	23.3
		4183	836.6	21.05			22.57		
		4233	846.6	20.93			22.53		
	Subtest 4	4132	826.4	21.14	0.5	21.5	22.71	0.5	23.3
		4183	836.6	21.01			22.54		
		4233	846.6	20.92			22.46		
HSUPA	Subtest 1	4132	826.4	21.70	0	22.0	23.18	0	24.8
		4183	836.6	21.53			23.23		
		4233	846.6	21.42			22.97		
	Subtest 2	4132	826.4	19.65	2	20.0	21.15	2	22.8
		4183	836.6	19.53			20.99		
		4233	846.6	19.43			20.76		
	Subtest 3	4132	826.4	20.66	1	21.0	22.14	1	23.8
		4183	836.6	20.49			22.04		
		4233	846.6	20.41			21.99		
	Subtest 4	4132	826.4	19.66	2	20.0	21.23	2	22.8
		4183	836.6	19.52			20.96		
		4233	846.6	19.42			20.94		
	Subtest 5	4132	826.4	21.27	0	22.0	23.19	0	24.8
		4183	836.6	21.11			23.04		
		4233	846.6	20.99			22.98		
DC-HSDPA	Subtest 1	4132	826.4	21.68	0	22.5	23.23	0	24.3
		4183	836.6	21.52			23.06		
		4233	846.6	21.40			22.97		
	Subtest 2	4132	826.4	21.69	0	22.5	23.23	0	24.3
		4183	836.6	21.53			23.05		
		4233	846.6	21.42			22.45		
	Subtest 3	4132	826.4	21.20	0.5	22.0	22.72	0.5	23.8
		4183	836.6	21.02			22.53		
		4233	846.6	20.93			22.59		
	Subtest 4	4132	826.4	21.18	0.5	22.0	22.67	0.5	23.8
		4183	836.6	21.03			22.51		
		4233	846.6	20.93			22.45		

9.3. LTE

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

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

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

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

- The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
 - 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)

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 5 (Main 1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0,3,4					DSI = 2				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20450 829 MHz	20525 836.5 MHz	20600 844 MHz			20450 829 MHz	20525 836.5 MHz	20600 844 MHz		
10 MHz	QPSK	1	0		22.48		0.0	23.0		24.64		0.0	25.8
		1	25		22.44		0.0	23.0		24.50		0.0	25.8
		1	49		22.35		0.0	23.0		24.44		0.0	25.8
		25	0		21.45		1.0	22.0		23.36		1.0	24.8
		25	12		21.42		1.0	22.0		23.20		1.0	24.8
		25	25		21.37		1.0	22.0		23.14		1.0	24.8
		50	0		21.40		1.0	22.0		23.16		1.0	24.8
	16QAM	1	0		21.60		1.0	22.0		23.44		1.0	24.8
		1	25		21.56		1.0	22.0		23.20		1.0	24.8
		1	49		21.52		1.0	22.0		22.91		1.0	24.8
		25	0		20.43		2.0	21.0		22.18		2.0	23.8
		25	12		20.44		2.0	21.0		22.22		2.0	23.8
		25	25		20.40		2.0	21.0		22.23		2.0	23.8
		50	0		20.41		2.0	21.0		22.23		2.0	23.8
	64QAM	1	0		20.67		2.0	21.0		22.50		2.0	23.8
		1	25		20.61		2.0	21.0		22.69		2.0	23.8
		1	49		20.50		2.0	21.0		22.11		2.0	23.8
		25	0		19.47		3.0	20.0		21.25		3.0	22.8
		25	12		19.44		3.0	20.0		21.22		3.0	22.8
		25	25		19.41		3.0	20.0		21.20		3.0	22.8
		50	0		19.43		3.0	20.0		21.22		3.0	22.8
	256QAM	1	0		17.63		5.0	18.0		19.41		5.0	20.8
		1	25		17.61		5.0	18.0		18.77		5.0	20.8
		1	49		17.51		5.0	18.0		19.14		5.0	20.8
25		0		17.43		5.0	18.0		19.21		5.0	20.8	
25		12		17.48		5.0	18.0		19.18		5.0	20.8	
25		25		17.42		5.0	18.0		19.16		5.0	20.8	
50		0		17.43		5.0	18.0		19.19		5.0	20.8	
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20425	20525	20625			20425	20525	20625		
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	22.57	22.40	22.27	0.0	23.0	24.30	24.05	23.99	0.0	25.8
		1	12	22.63	22.47	22.34	0.0	23.0	24.32	24.21	24.02	0.0	25.8
		1	24	22.49	22.33	22.29	0.0	23.0	24.24	23.99	24.12	0.0	25.8
		12	0	21.57	21.40	21.26	1.0	22.0	23.33	23.17	23.02	1.0	24.8
		12	7	21.64	21.39	21.35	1.0	22.0	23.31	23.22	23.10	1.0	24.8
		12	13	21.50	21.37	21.32	1.0	22.0	23.16	23.14	23.05	1.0	24.8
		25	0	21.50	21.40	21.33	1.0	22.0	23.25	23.13	23.15	1.0	24.8
	16QAM	1	0	21.77	21.51	21.45	1.0	22.0	23.48	23.25	23.36	1.0	24.8
		1	12	21.82	21.56	21.54	1.0	22.0	23.26	23.23	23.65	1.0	24.8
		1	24	21.68	21.44	21.43	1.0	22.0	23.11	23.17	23.23	1.0	24.8
		12	0	20.63	20.42	20.26	2.0	21.0	22.36	22.24	22.13	2.0	23.8
		12	7	20.63	20.42	20.35	2.0	21.0	22.39	22.10	22.15	2.0	23.8
		12	13	20.51	20.41	20.33	2.0	21.0	22.25	22.27	22.11	2.0	23.8
		25	0	20.51	20.39	20.35	2.0	21.0	22.34	22.21	22.17	2.0	23.8
	64QAM	1	0	20.72	20.51	20.48	2.0	21.0	22.41	22.25	22.10	2.0	23.8
		1	12	20.81	20.56	20.59	2.0	21.0	22.83	22.18	22.72	2.0	23.8
		1	24	20.62	20.43	20.47	2.0	21.0	22.64	21.95	22.24	2.0	23.8
		12	0	19.63	19.41	19.29	3.0	20.0	21.33	21.16	21.10	3.0	22.8
		12	7	19.63	19.47	19.41	3.0	20.0	21.23	21.19	21.25	3.0	22.8
		12	13	19.54	19.41	19.39	3.0	20.0	21.09	21.25	21.14	3.0	22.8
		25	0	19.50	19.39	19.35	3.0	20.0	21.24	21.19	21.15	3.0	22.8
	256QAM	1	0	17.73	17.48	17.39	5.0	18.0	19.60	19.31	19.13	5.0	20.8
		1	12	17.83	17.55	17.54	5.0	18.0	19.48	19.35	19.31	5.0	20.8
		1	24	17.67	17.48	17.42	5.0	18.0	19.29	18.86	19.13	5.0	20.8
		12	0	17.62	17.43	17.28	5.0	18.0	19.30	19.22	18.99	5.0	20.8
		12	7	17.64	17.45	17.42	5.0	18.0	19.22	19.20	19.04	5.0	20.8
		12	13	17.53	17.40	17.38	5.0	18.0	19.25	19.21	19.08	5.0	20.8
		25	0	17.50	17.40	17.32	5.0	18.0	19.22	19.18	19.12	5.0	20.8

LTE Band 5 (Main 1) Measured Results Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20415	20525	20635			20415	20525	20635		
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	22.56	22.34	22.29	0.0	23.0	24.33	24.03	23.89	0.0	25.8
		1	8	22.63	22.41	22.40	0.0	23.0	24.34	24.07	23.98	0.0	25.8
		1	14	22.52	22.33	22.30	0.0	23.0	24.17	24.04	24.09	0.0	25.8
		8	0	21.55	21.37	21.24	1.0	22.0	23.32	23.18	23.02	1.0	24.8
		8	4	21.59	21.42	21.38	1.0	22.0	23.35	23.21	23.10	1.0	24.8
		8	7	21.57	21.40	21.35	1.0	22.0	23.32	23.08	23.10	1.0	24.8
	16QAM	15	0	21.58	21.40	21.34	1.0	22.0	23.30	23.14	23.10	1.0	24.8
		1	0	21.71	21.48	21.41	1.0	22.0	23.58	23.49	23.25	1.0	24.8
		1	8	21.77	21.56	21.54	1.0	22.0	23.32	23.22	23.40	1.0	24.8
		1	14	21.64	21.51	21.46	1.0	22.0	23.29	23.43	23.01	1.0	24.8
		8	0	20.61	20.42	20.26	2.0	21.0	22.39	22.18	22.04	2.0	23.8
		8	4	20.63	20.47	20.38	2.0	21.0	22.50	22.35	22.12	2.0	23.8
	64QAM	8	7	20.65	20.45	20.38	2.0	21.0	22.40	22.22	22.06	2.0	23.8
		15	0	20.58	20.43	20.35	2.0	21.0	22.29	22.12	22.06	2.0	23.8
		1	0	20.80	20.49	20.44	2.0	21.0	22.70	22.42	22.30	2.0	23.8
		1	8	20.88	20.62	20.58	2.0	21.0	22.94	22.06	22.45	2.0	23.8
		1	14	20.73	20.47	20.45	2.0	21.0	22.85	22.01	22.21	2.0	23.8
		8	0	19.61	19.43	19.27	3.0	20.0	21.45	21.00	20.98	3.0	22.8
1.4 MHz	QPSK	8	4	19.64	19.45	19.36	3.0	20.0	21.38	21.28	21.06	3.0	22.8
		8	7	19.64	19.47	19.37	3.0	20.0	21.37	21.13	21.17	3.0	22.8
		15	0	19.59	19.41	19.34	3.0	20.0	21.29	21.13	21.17	3.0	22.8
	16QAM	1	0	17.72	17.47	17.31	5.0	18.0	19.21	19.30	20.34	5.0	20.8
		1	8	17.81	17.54	17.46	5.0	18.0	19.22	19.20	19.29	5.0	20.8
		1	14	17.62	17.46	17.36	5.0	18.0	19.46	19.46	18.90	5.0	20.8
	64QAM	8	0	17.63	17.41	17.25	5.0	18.0	19.44	19.22	18.96	5.0	20.8
		8	4	17.66	17.46	17.37	5.0	18.0	19.37	19.21	19.30	5.0	20.8
		8	7	17.66	17.42	17.38	5.0	18.0	19.45	19.18	19.22	5.0	20.8
	256QAM	15	0	17.58	17.36	17.35	5.0	18.0	19.36	19.13	19.20	5.0	20.8
		1	0	22.60	22.32	22.30	0.0	23.0	24.22	24.09	23.86	0.0	25.8
	QPSK	1	3	22.65	22.35	22.32	0.0	23.0	24.35	24.09	23.91	0.0	25.8
		1	5	22.60	22.33	22.27	0.0	23.0	24.30	24.10	24.01	0.0	25.8
		3	0	22.58	22.33	22.31	0.0	23.0	24.32	24.05	23.91	0.0	25.8
		3	1	22.59	22.36	22.32	0.0	23.0	24.24	24.24	24.12	0.0	25.8
	16QAM	3	3	22.60	22.37	22.32	0.0	23.0	24.30	24.07	23.91	0.0	25.8
		6	0	21.56	21.34	21.27	1.0	22.0	23.27	23.05	23.07	1.0	24.8
	64QAM	1	0	21.74	21.52	21.46	1.0	22.0	23.08	23.08	22.71	1.0	24.8
		1	3	21.81	21.51	21.50	1.0	22.0	23.39	22.94	22.81	1.0	24.8
		1	5	21.69	21.49	21.40	1.0	22.0	23.45	22.98	23.01	1.0	24.8
		3	0	21.69	21.39	21.40	1.0	22.0	23.50	23.25	23.02	1.0	24.8
	256QAM	3	1	21.72	21.48	21.44	1.0	22.0	23.51	23.18	22.86	1.0	24.8
		3	3	21.74	21.46	21.42	1.0	22.0	23.34	23.25	23.32	1.0	24.8
		6	0	20.59	20.39	20.30	2.0	21.0	22.47	22.06	22.07	2.0	23.8
	64QAM	1	0	20.74	20.49	20.47	2.0	21.0	22.62	22.51	22.20	2.0	23.8
		1	3	20.78	20.49	20.59	2.0	21.0	22.68	22.21	22.16	2.0	23.8
		1	5	20.64	20.50	20.53	2.0	21.0	22.77	21.99	22.01	2.0	23.8
		3	0	20.72	20.54	20.41	2.0	21.0	22.53	22.09	21.70	2.0	23.8
		3	1	20.72	20.50	20.41	2.0	21.0	22.23	21.97	21.81	2.0	23.8
		3	3	20.70	20.51	20.42	2.0	21.0	22.26	22.25	22.17	2.0	23.8
	256QAM	6	0	19.58	19.38	19.31	3.0	20.0	21.32	21.13	21.07	3.0	22.8
		1	0	17.73	17.41	17.46	5.0	18.0	19.53	19.15	19.92	5.0	20.8
		1	3	17.76	17.49	17.54	5.0	18.0	19.50	19.06	19.41	5.0	20.8
		1	5	17.70	17.41	17.43	5.0	18.0	19.15	19.30	19.13	5.0	20.8
		3	0	17.66	17.42	17.42	5.0	18.0	19.42	19.12	19.09	5.0	20.8
		3	1	17.64	17.38	17.40	5.0	18.0	19.29	18.94	19.06	5.0	20.8
		3	3	17.65	17.39	17.42	5.0	18.0	19.20	19.25	19.11	5.0	20.8
		6	0	17.62	17.31	17.35	5.0	18.0	19.23	19.05	19.36	5.0	20.8

LTE Band 12 (Main 1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				DSI = 0, 2, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
					23095			
				707.5 MHz				
10 MHz	QPSK	1	0		22.63		0.0	23.5
		1	25		22.55		0.0	23.5
		1	49		22.50		0.0	23.5
		25	0		21.56		1.0	22.5
		25	12		21.53		1.0	22.5
		25	25		21.50		1.0	22.5
		50	0		21.51		1.0	22.5
	16QAM	1	0		21.78		1.0	22.5
		1	25		21.52		1.0	22.5
		1	49		21.38		1.0	22.5
		25	0		20.50		2.0	21.5
		25	12		20.59		2.0	21.5
		25	25		20.51		2.0	21.5
		50	0		20.52		2.0	21.5
	64QAM	1	0		20.71		2.0	21.5
		1	25		20.28		2.0	21.5
		1	49		21.00		2.0	21.5
		25	0		19.51		3.0	20.5
		25	12		19.54		3.0	20.5
		25	25		19.57		3.0	20.5
		50	0		19.54		3.0	20.5
	256QAM	1	0		17.60		5.0	18.5
		1	25		17.82		5.0	18.5
		1	49		17.44		5.0	18.5
		25	0		17.63		5.0	18.5
		25	12		17.53		5.0	18.5
		25	25		17.54		5.0	18.5
		50	0		17.42		5.0	18.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23035	23095	23155		
				701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0	22.37	22.55	22.38	0.0	23.5
		1	12	22.33	22.52	22.45	0.0	23.5
		1	24	22.41	22.36	22.41	0.0	23.5
		12	0	21.46	21.52	21.39	1.0	22.5
		12	7	22.30	21.46	21.47	1.0	22.5
		12	13	22.35	21.40	21.35	1.0	22.5
		25	0	21.34	21.49	21.45	1.0	22.5
	16QAM	1	0	21.56	21.48	21.86	1.0	22.5
		1	12	21.99	21.73	21.58	1.0	22.5
		1	24	21.76	21.79	21.45	1.0	22.5
		12	0	20.63	20.50	20.42	2.0	21.5
		12	7	20.70	20.62	20.50	2.0	21.5
		12	13	20.53	20.37	20.42	2.0	21.5
		25	0	20.61	20.42	20.48	2.0	21.5
	64QAM	1	0	20.82	20.61	20.43	2.0	21.5
		1	12	20.69	20.57	20.53	2.0	21.5
		1	24	20.80	20.24	20.45	2.0	21.5
		12	0	19.54	19.49	19.24	3.0	20.5
		12	7	19.65	19.54	19.49	3.0	20.5
		12	13	19.51	19.44	19.42	3.0	20.5
		25	0	19.58	19.40	19.39	3.0	20.5
	256QAM	1	0	18.24	17.69	17.47	5.0	18.5
		1	12	17.71	17.58	17.57	5.0	18.5
		1	24	17.92	17.47	17.88	5.0	18.5
		12	0	17.50	17.54	17.37	5.0	18.5
		12	7	17.73	17.45	17.51	5.0	18.5
		12	13	17.49	17.58	17.51	5.0	18.5
		25	0	17.66	17.53	17.37	5.0	18.5

LTE Band 12 (Main 1) 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	22.60	22.35	22.38	0.0	23.5
		1	8	22.75	22.45	22.49	0.0	23.5
		1	14	22.62	22.32	22.28	0.0	23.5
		8	0	21.64	21.47	21.31	1.0	22.5
		8	4	21.55	21.47	21.35	1.0	22.5
		8	7	21.57	21.47	21.49	1.0	22.5
		15	0	21.57	21.48	21.34	1.0	22.5
	16QAM	1	0	21.81	21.61	21.44	1.0	22.5
		1	8	21.65	21.74	21.20	1.0	22.5
		1	14	21.57	21.71	21.89	1.0	22.5
		8	0	20.70	20.61	20.33	2.0	21.5
		8	4	20.55	20.49	20.45	2.0	21.5
		8	7	20.58	20.49	20.42	2.0	21.5
		15	0	20.60	20.48	20.30	2.0	21.5
	64QAM	1	0	20.43	20.72	20.77	2.0	21.5
		1	8	20.75	21.21	20.35	2.0	21.5
		1	14	20.74	20.06	20.40	2.0	21.5
		8	0	19.44	19.53	19.32	3.0	20.5
		8	4	19.47	19.44	19.37	3.0	20.5
		8	7	19.56	19.34	19.45	3.0	20.5
		15	0	19.47	19.45	19.30	3.0	20.5
	256QAM	1	0	17.77	17.72	16.85	5.0	18.5
		1	8	17.90	18.09	17.71	5.0	18.5
		1	14	17.55	17.60	17.53	5.0	18.5
		8	0	17.56	17.44	17.44	5.0	18.5
		8	4	17.53	17.54	17.34	5.0	18.5
		8	7	17.48	17.50	17.42	5.0	18.5
		15	0	17.53	17.53	17.43	5.0	18.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23017	23095	23173		
				699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	22.54	22.38	22.37	0.0	23.5
		1	3	22.59	22.43	22.33	0.0	23.5
		1	5	22.50	22.42	22.36	0.0	23.5
		3	0	22.63	22.40	22.36	0.0	23.5
		3	1	22.64	22.50	22.30	0.0	23.5
		3	3	22.62	22.50	22.35	0.0	23.5
		6	0	21.62	21.40	21.34	1.0	22.5
	16QAM	1	0	21.59	21.86	21.19	1.0	22.5
		1	3	21.69	21.40	21.84	1.0	22.5
		1	5	21.76	21.75	21.58	1.0	22.5
		3	0	21.62	21.47	21.45	1.0	22.5
		3	1	21.79	21.53	21.29	1.0	22.5
		3	3	21.65	21.42	21.29	1.0	22.5
		6	0	20.55	20.39	20.24	2.0	21.5
	64QAM	1	0	20.83	20.48	20.32	2.0	21.5
		1	3	20.86	20.64	20.80	2.0	21.5
		1	5	20.80	20.49	20.52	2.0	21.5
		3	0	20.80	20.56	20.62	2.0	21.5
		3	1	20.55	20.42	20.51	2.0	21.5
		3	3	20.64	20.42	20.58	2.0	21.5
		6	0	19.59	19.48	19.31	3.0	20.5
	256QAM	1	0	17.48	17.43	17.30	5.0	18.5
		1	3	17.89	17.40	17.73	5.0	18.5
		1	5	17.64	17.29	17.32	5.0	18.5
		3	0	17.39	17.68	17.30	5.0	18.5
		3	1	17.64	17.55	17.66	5.0	18.5
		3	3	17.69	17.47	17.58	5.0	18.5
		6	0	17.60	17.48	17.42	5.0	18.5

LTE Band 13 (Main 1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				DSI = 0, 2, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
					23230			
					782 MHz			
10 MHz	QPSK	1	0		22.67		0.0	23.5
		1	25		22.64		0.0	23.5
		1	49		22.44		0.0	23.5
		25	0		21.71		1.0	22.5
		25	12		21.65		1.0	22.5
		25	25		21.55		1.0	22.5
	16QAM	50	0		21.58		1.0	22.5
		1	0		21.61		1.0	22.5
		1	25		21.60		1.0	22.5
		1	49		21.57		1.0	22.5
		25	0		20.64		2.0	21.5
		25	12		20.68		2.0	21.5
	64QAM	25	25		20.53		2.0	21.5
		50	0		20.61		2.0	21.5
		1	0		20.44		2.0	21.5
		1	25		20.97		2.0	21.5
		1	49		20.58		2.0	21.5
		25	0		19.61		3.0	20.5
5 MHz	QPSK	25	12		19.62		3.0	20.5
		25	25		19.51		3.0	20.5
		50	0		19.50		3.0	20.5
	16QAM	1	0		17.64		5.0	18.5
		1	25		17.82		5.0	18.5
		1	49		17.53		5.0	18.5
	64QAM	25	0		17.67		5.0	18.5
		25	12		17.49		5.0	18.5
		25	25		17.41		5.0	18.5
	256QAM	50	0		17.58		5.0	18.5
		1	0		22.66		0.0	23.5
		1	12		22.66		0.0	23.5
		1	24		22.46		0.0	23.5
		12	0		21.65		1.0	22.5
		12	7		21.59		1.0	22.5
	16QAM	12	13		21.52		1.0	22.5
		25	0		21.58		1.0	22.5
		1	0		21.65		1.0	22.5
		1	12		21.69		1.0	22.5
		1	24		21.25		1.0	22.5
		12	0		20.70		2.0	21.5
	64QAM	12	7		20.55		2.0	21.5
		12	13		20.63		2.0	21.5
		25	0		20.45		2.0	21.5
		1	0		20.52		2.0	21.5
		1	12		20.98		2.0	21.5
		1	24		20.57		2.0	21.5
	256QAM	12	0		19.65		3.0	20.5
		12	7		19.52		3.0	20.5
		12	13		19.58		3.0	20.5
		25	0		19.56		3.0	20.5
		1	0		17.49		5.0	18.5
		1	12		17.49		5.0	18.5
		1	24		17.70		5.0	18.5
		12	0		17.64		5.0	18.5
		12	7		17.76		5.0	18.5
		12	13		17.40		5.0	18.5
		25	0		17.58		5.0	18.5

LTE Band 17 (Main 1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				DSI = 0, 2, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
					23790			
					710 MHz			
10 MHz	QPSK	1	0		24.01		0.0	25.5
		1	25		23.95		0.0	25.5
		1	49		23.70		0.0	25.5
		25	0		22.96		1.0	24.5
		25	12		22.94		1.0	24.5
		25	25		22.88		1.0	24.5
	16QAM	50	0		22.99		1.0	24.5
		1	0		23.06		1.0	24.5
		1	25		22.88		1.0	24.5
		1	49		22.90		1.0	24.5
		25	0		22.03		2.0	23.5
		25	12		21.96		2.0	23.5
	64QAM	25	25		21.83		2.0	23.5
		50	0		21.93		2.0	23.5
		1	0		22.04		2.0	23.5
		1	25		22.48		2.0	23.5
		1	49		22.08		2.0	23.5
		25	0		20.96		3.0	22.5
5 MHz	QPSK	25	12		20.95		3.0	22.5
		25	25		20.86		3.0	22.5
		50	0		20.85		3.0	22.5
	16QAM	1	0		18.77		5.0	20.5
		1	25		19.20		5.0	20.5
		1	49		18.94		5.0	20.5
	64QAM	25	0		19.03		5.0	20.5
		25	12		18.94		5.0	20.5
		25	25		18.85		5.0	20.5
	256QAM	50	0		18.94		5.0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23755	23790	23825		
				706.5 MHz	710 MHz	713.5 MHz		
5 MHz	QPSK	1	0	23.78	23.88	23.77	0.0	25.5
		1	12	23.77	23.99	23.87	0.0	25.5
		1	24	23.57	23.67	23.77	0.0	25.5
		12	0	22.57	22.89	22.83	1.0	24.5
		12	7	22.75	22.90	22.90	1.0	24.5
		12	13	22.82	22.80	22.80	1.0	24.5
	16QAM	25	0	22.80	22.87	22.90	1.0	24.5
		1	0	23.03	23.01	23.06	1.0	24.5
		1	12	23.06	22.97	22.99	1.0	24.5
		1	24	23.19	22.96	22.80	1.0	24.5
		12	0	21.95	21.80	21.81	2.0	23.5
		12	7	21.94	22.02	21.83	2.0	23.5
	64QAM	12	13	21.85	21.82	21.78	2.0	23.5
		25	0	21.84	21.80	21.78	2.0	23.5
		1	0	22.11	22.13	22.09	2.0	23.5
		1	12	22.22	21.76	22.10	2.0	23.5
		1	24	21.80	21.69	22.13	2.0	23.5
		12	0	20.91	20.77	20.76	3.0	22.5
	256QAM	12	7	20.80	20.83	20.91	3.0	22.5
		12	13	20.90	20.85	20.93	3.0	22.5
		25	0	20.92	20.84	20.82	3.0	22.5
		1	0	19.13	19.06	18.79	5.0	20.5
		1	12	19.19	18.90	18.72	5.0	20.5
		1	24	18.85	18.85	18.73	5.0	20.5
	256QAM	12	0	18.94	18.95	18.76	5.0	20.5
		12	7	18.93	18.94	18.88	5.0	20.5
		12	13	18.84	18.70	18.82	5.0	20.5
		25	0	18.78	18.95	18.90	5.0	20.5

LTE Band 26 (Main 1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0, 3, 4					DSI = 2				
				Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit
				26765 821.5 MHz	26865 831.5 MHz	26965 841.5 MHz			26765 821.5 MHz	26865 831.5 MHz	26965 841.5 MHz		
15 MHz	QPSK	1	0		22.32		0.0	23.0		23.98		0.0	25.8
		1	37		22.29		0.0	23.0		23.62		0.0	25.8
		1	74		22.17		0.0	23.0		23.44		0.0	25.8
		36	0		21.34		1.0	22.0		22.85		1.0	24.8
		36	20		21.32		1.0	22.0		22.69		1.0	24.8
		36	39		21.33		1.0	22.0		22.65		1.0	24.8
		75	0		21.36		1.0	22.0		22.68		1.0	24.8
	16QAM	1	0		21.44		1.0	22.0		22.68		1.0	24.8
		1	37		21.40		1.0	22.0		22.79		1.0	24.8
		1	74		21.25		1.0	22.0		22.63		1.0	24.8
		36	0		20.32		2.0	21.0		21.63		2.0	23.8
		36	20		20.38		2.0	21.0		21.76		2.0	23.8
		36	39		20.35		2.0	21.0		21.62		2.0	23.8
		75	0		20.36		2.0	21.0		21.72		2.0	23.8
	64QAM	1	0		20.44		2.0	21.0		21.80		2.0	23.8
		1	37		20.44		2.0	21.0		21.90		2.0	23.8
		1	74		20.29		2.0	21.0		21.67		2.0	23.8
		36	0		19.32		3.0	20.0		20.70		3.0	22.8
		36	20		19.35		3.0	20.0		20.69		3.0	22.8
		36	39		19.33		3.0	20.0		20.69		3.0	22.8
		75	0		19.37		3.0	20.0		20.75		3.0	22.8
	256QAM	1	0		17.46		5.0	18.0		18.79		5.0	20.8
		1	37		17.44		5.0	18.0		18.81		5.0	20.8
		1	74		17.49		5.0	18.0		18.97		5.0	20.8
		36	0		17.30		5.0	18.0		18.81		5.0	20.8
		36	20		17.35		5.0	18.0		18.66		5.0	20.8
		36	39		17.32		5.0	18.0		18.68		5.0	20.8
		75	0		17.33		5.0	18.0		18.71		5.0	20.8
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit
26740 819 MHz	26865 831.5 MHz	26990 844 MHz	26740 819 MHz	26865 831.5 MHz	26990 844 MHz								
10 MHz	QPSK	1	0	22.64	22.48	22.40	0.0	23.0	24.13	23.88	23.86	0.0	25.8
		1	25	22.63	22.50	22.40	0.0	23.0	23.95	23.98	23.87	0.0	25.8
		1	49	22.54	22.38	22.30	0.0	23.0	23.81	23.90	23.80	0.0	25.8
		25	0	21.59	21.43	21.34	1.0	22.0	23.01	22.85	22.79	1.0	24.8
		25	12	21.68	21.50	21.36	1.0	22.0	23.06	22.85	22.75	1.0	24.8
		25	25	21.62	21.47	21.41	1.0	22.0	23.00	22.86	22.79	1.0	24.8
		50	0	21.67	21.47	21.37	1.0	22.0	23.03	22.84	22.83	1.0	24.8
	16QAM	1	0	21.73	21.62	21.55	1.0	22.0	23.74	23.04	22.90	1.0	24.8
		1	25	21.76	21.59	21.53	1.0	22.0	23.35	22.40	22.89	1.0	24.8
		1	49	21.70	21.52	21.50	1.0	22.0	22.98	23.12	22.59	1.0	24.8
		25	0	20.60	20.40	20.35	2.0	21.0	22.09	21.74	21.73	2.0	23.8
		25	12	20.70	20.53	20.36	2.0	21.0	21.99	21.79	21.80	2.0	23.8
		25	25	20.65	20.48	20.42	2.0	21.0	21.89	21.78	21.84	2.0	23.8
		50	0	20.68	20.51	20.35	2.0	21.0	22.06	21.91	21.71	2.0	23.8
	64QAM	1	0	20.84	20.59	20.59	2.0	21.0	23.16	21.70	21.86	2.0	23.8
		1	25	20.82	20.64	20.59	2.0	21.0	23.30	21.96	22.35	2.0	23.8
		1	49	20.69	20.47	20.56	2.0	21.0	23.25	21.97	21.97	2.0	23.8
		25	0	19.60	19.44	19.35	3.0	20.0	22.01	20.90	20.76	3.0	22.8
		25	12	19.72	19.50	19.35	3.0	20.0	21.95	20.85	20.64	3.0	22.8
		25	25	19.65	19.48	19.40	3.0	20.0	21.87	20.81	20.72	3.0	22.8
		50	0	19.65	19.48	19.38	3.0	20.0	22.02	20.85	20.63	3.0	22.8
	256QAM	1	0	17.77	17.60	17.41	5.0	18.0	19.19	18.69	18.87	5.0	20.8
		1	25	17.83	17.68	17.56	5.0	18.0	19.07	19.18	18.94	5.0	20.8
		1	49	17.72	17.59	17.45	5.0	18.0	19.06	18.55	18.77	5.0	20.8
		25	0	17.60	17.44	17.35	5.0	18.0	19.00	18.92	18.83	5.0	20.8
		25	12	17.67	17.51	17.37	5.0	18.0	19.02	18.95	18.71	5.0	20.8
		25	25	17.64	17.48	17.41	5.0	18.0	18.91	18.83	18.87	5.0	20.8
		50	0	17.64	17.49	17.37	5.0	18.0	19.07	18.81	18.69	5.0	20.8

LTE Band 26 (Main 1) 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
				26715	26865	27015			26715	26865	27015		
				816.5 MHz	831.5 MHz	846.5 MHz			816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	22.60	22.42	22.30	0.0	23.0	24.00	23.84	24.13	0.0	25.8
		1	12	22.66	22.46	22.37	0.0	23.0	24.06	23.87	23.78	0.0	25.8
		1	24	22.55	22.38	22.29	0.0	23.0	23.85	23.70	23.75	0.0	25.8
		12	0	21.66	21.38	21.30	1.0	22.0	22.90	22.81	22.72	1.0	24.8
		12	7	21.66	21.47	21.40	1.0	22.0	23.01	22.85	22.78	1.0	24.8
		12	13	21.65	21.47	21.36	1.0	22.0	22.99	22.86	22.82	1.0	24.8
	16QAM	25	0	21.64	21.48	21.36	1.0	22.0	23.02	22.78	22.76	1.0	24.8
		1	0	21.69	21.64	21.46	1.0	22.0	23.10	22.87	22.35	1.0	24.8
		1	12	21.75	21.63	21.49	1.0	22.0	22.76	23.09	22.93	1.0	24.8
		1	24	21.68	21.62	21.44	1.0	22.0	23.00	23.03	22.60	1.0	24.8
		12	0	20.66	20.43	20.30	2.0	21.0	21.92	21.74	21.71	2.0	23.8
		12	7	20.69	20.53	20.41	2.0	21.0	22.04	21.90	21.85	2.0	23.8
	64QAM	12	13	20.66	20.47	20.39	2.0	21.0	22.06	21.73	21.79	2.0	23.8
		25	0	20.65	20.45	20.40	2.0	21.0	21.99	21.90	21.73	2.0	23.8
		1	0	20.71	20.64	20.48	2.0	21.0	22.16	22.20	21.88	2.0	23.8
		1	12	20.84	20.65	20.58	2.0	21.0	21.92	21.97	22.69	2.0	23.8
		1	24	20.68	20.63	20.48	2.0	21.0	22.16	22.12	22.07	2.0	23.8
		12	0	19.70	19.42	19.33	3.0	20.0	20.89	20.79	20.66	3.0	22.8
	256QAM	12	7	19.74	19.55	19.43	3.0	20.0	21.06	20.93	20.84	3.0	22.8
		12	13	19.68	19.49	19.40	3.0	20.0	20.92	20.81	20.82	3.0	22.8
		25	0	19.68	19.48	19.41	3.0	20.0	21.01	20.79	20.69	3.0	22.8
		1	0	17.72	17.52	17.47	5.0	18.0	19.17	18.92	18.58	5.0	20.8
		1	12	17.87	17.62	17.58	5.0	18.0	19.53	18.70	19.31	5.0	20.8
		1	24	17.79	17.55	17.54	5.0	18.0	19.16	18.91	18.62	5.0	20.8
		12	0	17.67	17.41	17.35	5.0	18.0	18.96	18.69	18.65	5.0	20.8
		12	7	17.71	17.55	17.44	5.0	18.0	19.04	18.93	18.85	5.0	20.8
		12	13	17.66	17.51	17.42	5.0	18.0	19.09	18.89	18.88	5.0	20.8
		25	0	17.70	17.47	17.38	5.0	18.0	19.09	18.86	18.69	5.0	20.8
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pw r (dBm)			MPR	Tune-up Limit	Measured Pw r (dBm)			MPR	Tune-up Limit
				26705	26865	27025			26705	26865	27025		
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	22.57	22.36	22.31	0.0	23.0	23.54	23.70	23.62	0.0	25.8
		1	8	22.67	22.46	22.38	0.0	23.0	23.56	23.89	23.79	0.0	25.8
		1	14	22.57	22.38	22.27	0.0	23.0	23.56	23.67	23.65	0.0	25.8
		8	0	21.66	21.36	21.29	1.0	22.0	22.67	22.81	22.73	1.0	24.8
		8	4	21.69	21.49	21.41	1.0	22.0	22.64	22.81	22.68	1.0	24.8
		8	7	21.71	21.46	21.39	1.0	22.0	23.03	22.82	22.82	1.0	24.8
	16QAM	15	0	21.68	21.46	21.38	1.0	22.0	23.05	22.77	22.75	1.0	24.8
		1	0	21.77	21.48	21.46	1.0	22.0	22.82	22.93	22.84	1.0	24.8
		1	8	21.80	21.64	21.55	1.0	22.0	23.10	23.05	22.86	1.0	24.8
		1	14	21.72	21.50	21.45	1.0	22.0	23.01	22.96	22.94	1.0	24.8
		8	0	20.71	20.43	20.32	2.0	21.0	22.12	21.83	21.92	2.0	23.8
		8	4	20.76	20.49	20.42	2.0	21.0	21.86	21.82	21.88	2.0	23.8
	64QAM	8	7	20.76	20.54	20.43	2.0	21.0	22.12	21.90	21.74	2.0	23.8
		15	0	20.70	20.49	20.38	2.0	21.0	21.97	21.92	21.77	2.0	23.8
		1	0	20.80	20.54	20.47	2.0	21.0	22.27	22.00	21.63	2.0	23.8
		1	8	20.85	20.58	20.60	2.0	21.0	22.49	21.86	22.42	2.0	23.8
		1	14	20.77	20.49	20.47	2.0	21.0	21.84	22.29	21.61	2.0	23.8
		8	0	19.68	19.43	19.29	3.0	20.0	21.17	20.90	20.79	3.0	22.8
	256QAM	8	4	19.71	19.49	19.44	3.0	20.0	21.09	20.87	20.72	3.0	22.8
		8	7	19.71	19.53	19.43	3.0	20.0	21.00	20.97	20.91	3.0	22.8
		15	0	19.66	19.43	19.36	3.0	20.0	20.94	20.72	20.72	3.0	22.8
		1	0	17.77	17.52	17.38	5.0	18.0	19.41	19.15	18.48	5.0	20.8
		1	8	17.87	17.64	17.54	5.0	18.0	19.33	18.82	18.74	5.0	20.8
		1	14	17.73	17.60	17.44	5.0	18.0	19.02	18.96	18.83	5.0	20.8
		8	0	17.67	17.39	17.27	5.0	18.0	19.01	18.85	18.65	5.0	20.8
		8	4	17.68	17.46	17.41	5.0	18.0	19.07	18.78	18.74	5.0	20.8
		8	7	17.69	17.50	17.45	5.0	18.0	18.96	18.72	18.86	5.0	20.8
		15	0	17.68	17.44	17.40	5.0	18.0	19.09	18.87	18.73	5.0	20.8

LTE Band 26 (Main 1) 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
				26697	26865	27033			26697	26865	27033		
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	22.6	22.4	22.3	0.0	23.0	24.0	23.8	23.9	0.0	25.8
		1	3	22.7	22.4	22.3	0.0	23.0	24.0	23.8	23.8	0.0	25.8
		1	5	22.6	22.4	22.3	0.0	23.0	24.0	23.8	23.6	0.0	25.8
		3	0	22.7	22.4	22.3	0.0	23.0	24.1	23.8	23.8	0.0	25.8
		3	1	22.6	22.4	22.3	0.0	23.0	24.0	23.8	23.7	0.0	25.8
		3	3	22.6	22.4	22.3	0.0	23.0	24.1	23.8	23.7	0.0	25.8
	16QAM	6	0	21.1	20.9	20.8	1.0	22.0	22.5	22.3	22.4	1.0	24.8
		1	0	21.8	21.6	21.5	1.0	22.0	23.3	22.8	23.1	1.0	24.8
		1	3	21.8	21.6	21.5	1.0	22.0	22.9	23.1	22.7	1.0	24.8
		1	5	21.8	21.6	21.4	1.0	22.0	23.1	23.2	22.6	1.0	24.8
		3	0	21.7	21.4	21.4	1.0	22.0	23.2	23.2	22.7	1.0	24.8
		3	1	21.7	21.5	21.4	1.0	22.0	23.0	22.9	22.9	1.0	24.8
	64QAM	3	3	21.8	21.5	21.4	1.0	22.0	22.9	23.2	22.9	1.0	24.8
		6	0	20.7	20.4	20.4	2.0	21.0	22.1	21.8	21.8	2.0	23.8
		1	0	20.7	20.6	20.5	2.0	21.0	22.0	22.0	21.8	2.0	23.8
		1	3	20.7	20.6	20.5	2.0	21.0	22.1	21.5	21.7	2.0	23.8
		1	5	20.7	20.5	20.5	2.0	21.0	22.2	21.8	22.2	2.0	23.8
		3	0	20.7	20.5	20.4	2.0	21.0	22.0	21.8	21.5	2.0	23.8
	256QAM	3	1	20.7	20.5	20.4	2.0	21.0	22.1	21.9	22.0	2.0	23.8
		3	3	20.7	20.5	20.4	2.0	21.0	22.1	21.8	21.8	2.0	23.8
		6	0	19.7	19.4	19.3	3.0	20.0	21.0	20.9	20.8	3.0	22.8
		1	0	17.8	17.5	17.5	5.0	18.0	18.9	19.0	18.7	5.0	20.8
		1	3	17.8	17.5	17.5	5.0	18.0	18.9	19.1	19.1	5.0	20.8
		1	5	17.8	17.5	17.5	5.0	18.0	18.7	18.6	18.7	5.0	20.8
		3	0	17.6	17.4	17.4	5.0	18.0	19.2	19.0	18.8	5.0	20.8
		3	1	17.7	17.5	17.4	5.0	18.0	19.2	18.8	19.1	5.0	20.8
		3	3	17.6	17.5	17.4	5.0	18.0	19.0	18.7	18.7	5.0	20.8
		6	0	17.7	17.4	17.3	5.0	18.0	18.9	18.9	18.9	5.0	20.8

LTE Band 66 (Main.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0, 3, 4					DSI = 2				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572			132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	17.91	18.15	18.00	0.0	20.0	22.94	23.32	22.93	0.0	25.0
		1	49	17.97	18.18	17.89	0.0	20.0	23.03	23.33	23.21	0.0	25.0
		1	99	18.05	18.16	17.92	0.0	20.0	23.07	23.30	23.14	0.0	25.0
		50	0	17.97	18.05	18.14	0.0	20.0	22.06	22.16	22.14	1.0	24.0
		50	24	18.01	18.16	18.00	0.0	20.0	22.13	22.22	22.14	1.0	24.0
		50	50	17.99	18.11	17.98	0.0	20.0	22.17	22.17	22.11	1.0	24.0
		100	0	18.02	18.16	18.03	0.0	20.0	22.18	22.26	22.23	1.0	24.0
	16QAM	1	0	18.06	18.48	17.82	0.0	20.0	22.29	22.49	22.01	1.0	24.0
		1	49	18.43	18.24	17.98	0.0	20.0	22.63	22.38	21.94	1.0	24.0
		1	99	18.52	18.32	18.28	0.0	20.0	22.31	22.51	22.22	1.0	24.0
		50	0	17.96	18.05	18.05	0.0	20.0	21.09	21.13	21.09	2.0	23.0
		50	24	18.11	18.10	18.07	0.0	20.0	21.19	21.32	21.20	2.0	23.0
		50	50	17.97	18.02	17.96	0.0	20.0	21.21	21.24	21.09	2.0	23.0
		100	0	18.10	18.03	18.04	0.0	20.0	21.19	21.20	21.20	2.0	23.0
	64QAM	1	0	18.25	18.33	18.25	0.0	20.0	21.42	21.12	21.17	2.0	23.0
		1	49	18.39	18.12	18.23	0.0	20.0	21.25	20.87	21.23	2.0	23.0
		1	99	18.40	18.30	18.25	0.0	20.0	21.55	21.50	21.42	2.0	23.0
		50	0	18.00	18.06	18.04	0.0	20.0	20.25	20.25	20.13	3.0	22.0
		50	24	17.98	18.16	18.01	0.0	20.0	20.35	20.22	20.29	3.0	22.0
		50	50	18.08	18.05	18.06	0.0	20.0	20.31	20.32	20.14	3.0	22.0
		100	0	18.06	18.12	18.13	0.0	20.0	20.18	20.19	20.22	3.0	22.0
	256QAM	1	0	18.18	18.10	18.05	0.0	20.0	18.12	18.45	18.05	5.0	20.0
		1	49	17.72	17.96	17.91	0.0	20.0	17.87	18.35	17.77	5.0	20.0
		1	99	18.72	18.22	18.19	0.0	20.0	18.40	18.69	18.41	5.0	20.0
		50	0	17.85	18.13	18.07	0.0	20.0	18.02	18.16	17.99	5.0	20.0
		50	24	17.92	18.10	18.05	0.0	20.0	18.14	18.22	18.19	5.0	20.0
		50	50	18.05	18.01	18.07	0.0	20.0	18.21	18.23	18.09	5.0	20.0
		100	0	18.06	18.14	18.07	0.0	20.0	18.08	18.22	18.11	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597			132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	17.72	17.99	17.91	0.0	20.0	22.89	23.12	23.09	0.0	25.0
		1	37	17.75	18.00	17.93	0.0	20.0	22.92	23.17	23.10	0.0	25.0
		1	74	17.85	18.07	17.77	0.0	20.0	23.05	23.15	22.98	0.0	25.0
		36	0	17.74	18.02	18.00	0.0	20.0	21.89	22.15	22.16	1.0	24.0
		36	20	17.83	18.02	17.96	0.0	20.0	22.00	22.16	22.13	1.0	24.0
		36	39	17.82	18.01	17.96	0.0	20.0	21.98	22.13	22.10	1.0	24.0
		75	0	17.83	18.00	17.97	0.0	20.0	21.98	22.13	22.13	1.0	24.0
	16QAM	1	0	18.04	18.29	18.22	0.0	20.0	22.17	22.49	22.45	1.0	24.0
		1	37	18.08	18.32	18.20	0.0	20.0	22.21	22.51	22.41	1.0	24.0
		1	74	18.16	18.28	18.14	0.0	20.0	22.36	22.54	22.33	1.0	24.0
		36	0	17.75	18.02	18.00	0.0	20.0	20.88	21.14	21.15	2.0	23.0
		36	20	17.85	18.02	17.99	0.0	20.0	20.99	21.14	21.14	2.0	23.0
		36	39	17.84	18.02	18.00	0.0	20.0	20.97	21.13	21.13	2.0	23.0
		75	0	17.85	18.03	17.98	0.0	20.0	20.97	21.13	21.14	2.0	23.0
	64QAM	1	0	17.82	18.14	18.12	0.0	20.0	21.04	21.18	21.22	2.0	23.0
		1	37	17.95	18.20	18.12	0.0	20.0	21.09	21.29	21.18	2.0	23.0
		1	74	18.05	18.13	18.03	0.0	20.0	21.16	21.25	21.10	2.0	23.0
		36	0	17.72	18.03	18.01	0.0	20.0	19.85	20.11	20.12	3.0	22.0
		36	20	17.81	18.04	17.98	0.0	20.0	19.95	20.14	20.08	3.0	22.0
		36	39	17.81	17.98	17.99	0.0	20.0	19.96	20.12	20.10	3.0	22.0
		75	0	17.84	18.02	17.98	0.0	20.0	19.96	20.11	20.10	3.0	22.0
	256QAM	1	0	17.79	18.15	17.99	0.0	20.0	17.99	18.16	18.21	5.0	20.0
		1	37	17.79	18.13	17.97	0.0	20.0	17.99	18.24	18.21	5.0	20.0
		1	74	17.96	18.15	17.89	0.0	20.0	18.09	18.15	18.10	5.0	20.0
		36	0	17.74	18.00	17.99	0.0	20.0	17.86	18.13	18.07	5.0	20.0
		36	20	17.85	18.02	17.93	0.0	20.0	17.90	18.10	18.06	5.0	20.0
		36	39	17.82	17.99	17.93	0.0	20.0	17.94	18.11	18.07	5.0	20.0
		75	0	17.82	18.00	17.96	0.0	20.0	17.93	18.13	18.08	5.0	20.0

LTE Band 66 (Main.2) 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	17.85	18.11	18.07	0.0	20.0	22.99	23.29	23.21	0.0	25.0
		1	25	17.97	18.21	18.09	0.0	20.0	23.09	23.35	23.25	0.0	25.0
		1	49	17.88	18.14	17.99	0.0	20.0	23.07	23.29	23.13	0.0	25.0
		25	0	17.86	18.13	18.09	0.0	20.0	21.97	22.27	22.26	1.0	24.0
		25	12	17.96	18.17	18.12	0.0	20.0	22.10	22.29	22.31	1.0	24.0
		25	25	17.97	18.15	18.02	0.0	20.0	22.08	22.27	22.16	1.0	24.0
	16QAM	50	0	17.93	18.15	18.10	0.0	20.0	22.04	22.28	22.27	1.0	24.0
		1	0	18.18	18.49	18.42	0.0	20.0	22.29	22.65	22.59	1.0	24.0
		1	25	18.21	18.54	18.42	0.0	20.0	22.35	22.75	22.67	1.0	24.0
		1	49	18.25	18.50	18.38	0.0	20.0	22.30	22.72	22.52	1.0	24.0
		25	0	17.86	18.13	18.13	0.0	20.0	20.99	21.26	21.23	2.0	23.0
		25	12	17.97	18.19	18.14	0.0	20.0	21.10	21.28	21.31	2.0	23.0
	64QAM	25	25	17.95	18.16	18.01	0.0	20.0	21.09	21.26	21.19	2.0	23.0
		50	0	17.96	18.15	18.11	0.0	20.0	21.06	21.26	21.24	2.0	23.0
		1	0	18.12	18.27	18.23	0.0	20.0	21.17	21.35	21.40	2.0	23.0
		1	25	18.13	18.38	18.27	0.0	20.0	21.25	21.55	21.38	2.0	23.0
		1	49	18.09	18.23	18.16	0.0	20.0	21.21	21.42	21.35	2.0	23.0
		25	0	17.86	18.12	18.12	0.0	20.0	19.98	20.24	20.24	3.0	22.0
5 MHz	QPSK	25	12	17.98	18.18	18.10	0.0	20.0	20.11	20.31	20.25	3.0	22.0
		25	25	17.98	18.16	17.99	0.0	20.0	20.08	20.25	20.13	3.0	22.0
		50	0	17.95	18.12	18.10	0.0	20.0	20.10	20.24	20.21	3.0	22.0
	16QAM	1	0	17.94	18.22	18.23	0.0	20.0	18.07	18.32	18.28	5.0	20.0
		1	25	18.11	18.37	18.16	0.0	20.0	18.30	18.55	18.27	5.0	20.0
		1	49	18.10	18.23	17.94	0.0	20.0	18.22	18.40	18.16	5.0	20.0
	64QAM	25	0	17.84	18.13	18.11	0.0	20.0	17.97	18.22	18.19	5.0	20.0
		25	12	17.98	18.18	18.12	0.0	20.0	18.07	18.27	18.25	5.0	20.0
		25	25	17.95	18.13	18.00	0.0	20.0	18.06	18.21	18.11	5.0	20.0
	256QAM	50	0	17.92	18.10	18.10	0.0	20.0	18.04	18.22	18.19	5.0	20.0
		1	0	17.81	18.07	18.03	0.0	20.0	22.96	23.25	23.17	0.0	25.0
	QPSK	1	12	17.94	18.20	18.13	0.0	20.0	23.03	23.37	23.22	0.0	25.0
		1	24	17.85	18.10	18.01	0.0	20.0	22.98	23.24	23.12	0.0	25.0
		12	0	17.93	18.13	18.10	0.0	20.0	22.00	22.24	22.20	1.0	24.0
		12	7	17.94	18.16	18.13	0.0	20.0	22.06	22.30	22.20	1.0	24.0
		12	13	17.94	18.13	18.05	0.0	20.0	22.03	22.26	22.21	1.0	24.0
	16QAM	25	0	17.94	18.14	18.07	0.0	20.0	22.05	22.26	22.24	1.0	24.0
		1	0	18.27	18.43	18.40	0.0	20.0	22.29	22.60	22.56	1.0	24.0
		1	12	18.39	18.63	18.49	0.0	20.0	22.43	22.68	22.66	1.0	24.0
		1	24	18.30	18.48	18.31	0.0	20.0	22.34	22.58	22.49	1.0	24.0
		12	0	18.01	18.13	18.16	0.0	20.0	21.02	21.29	21.21	2.0	23.0
		12	7	18.04	18.18	18.15	0.0	20.0	21.04	21.31	21.27	2.0	23.0
	64QAM	12	13	18.04	18.17	18.10	0.0	20.0	21.00	21.28	21.24	2.0	23.0
		25	0	17.96	18.13	18.07	0.0	20.0	21.04	21.28	21.22	2.0	23.0
		1	0	17.93	18.18	18.21	0.0	20.0	21.00	21.42	21.29	2.0	23.0
		1	12	18.03	18.26	18.31	0.0	20.0	21.16	21.50	21.33	2.0	23.0
		1	24	17.95	18.12	18.16	0.0	20.0	21.09	21.41	21.20	2.0	23.0
		12	0	17.89	18.15	18.09	0.0	20.0	20.07	20.22	20.21	3.0	22.0
5 MHz	256QAM	12	7	18.00	18.16	18.14	0.0	20.0	20.06	20.33	20.23	3.0	22.0
		12	13	17.95	18.14	18.08	0.0	20.0	20.03	20.22	20.16	3.0	22.0
		25	0	17.88	18.14	18.06	0.0	20.0	19.99	20.22	20.16	3.0	22.0
		1	0	17.85	18.18	18.12	0.0	20.0	18.00	18.26	18.32	5.0	20.0
		1	12	18.01	18.36	18.26	0.0	20.0	18.09	18.38	18.33	5.0	20.0
		1	24	18.00	18.09	18.03	0.0	20.0	18.05	18.28	18.17	5.0	20.0
	QPSK	12	0	17.89	18.15	18.06	0.0	20.0	18.00	18.22	18.17	5.0	20.0
		12	7	17.95	18.14	18.10	0.0	20.0	18.04	18.29	18.18	5.0	20.0
		12	13	17.93	18.13	18.06	0.0	20.0	18.04	18.25	18.19	5.0	20.0
		25	0	17.89	18.11	18.06	0.0	20.0	18.03	18.21	18.17	5.0	20.0

LTE Band 66 (Main.2) 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	17.83	18.12	17.97	0.0	20.0	22.96	23.26	23.13	0.0	25.0
		1	8	17.91	18.26	18.02	0.0	20.0	23.06	23.38	23.20	0.0	25.0
		1	14	17.80	18.13	17.95	0.0	20.0	22.97	23.26	23.10	0.0	25.0
		8	0	17.90	18.12	18.03	0.0	20.0	21.98	22.26	22.21	1.0	24.0
		8	4	17.93	18.14	18.08	0.0	20.0	22.05	22.28	22.21	1.0	24.0
		8	7	17.93	18.23	18.06	0.0	20.0	22.04	22.35	22.22	1.0	24.0
	16QAM	15	0	17.89	18.14	18.04	0.0	20.0	22.01	22.23	22.19	1.0	24.0
		1	0	18.18	18.38	18.38	0.0	20.0	22.30	22.52	22.47	1.0	24.0
		1	8	18.25	18.53	18.44	0.0	20.0	22.34	22.67	22.60	1.0	24.0
		1	14	18.15	18.40	18.29	0.0	20.0	22.31	22.56	22.54	1.0	24.0
		8	0	17.98	18.16	18.10	0.0	20.0	21.09	21.25	21.23	2.0	23.0
		8	4	18.00	18.19	18.14	0.0	20.0	21.11	21.32	21.27	2.0	23.0
	64QAM	8	7	18.00	18.28	18.08	0.0	20.0	21.12	21.39	21.28	2.0	23.0
		15	0	17.94	18.15	18.09	0.0	20.0	21.00	21.26	21.21	2.0	23.0
		1	0	17.98	18.36	18.16	0.0	20.0	21.09	21.48	21.27	2.0	23.0
		1	8	18.11	18.39	18.17	0.0	20.0	21.28	21.51	21.29	2.0	23.0
		1	14	18.00	18.32	18.18	0.0	20.0	21.20	21.39	21.26	2.0	23.0
		8	0	17.93	18.13	18.11	0.0	20.0	20.02	20.24	20.21	3.0	22.0
1.4 MHz	QPSK	8	4	17.97	18.15	18.12	0.0	20.0	20.09	20.30	20.20	3.0	22.0
		8	7	17.98	18.21	18.07	0.0	20.0	20.06	20.35	20.25	3.0	22.0
		15	0	17.92	18.08	18.01	0.0	20.0	20.02	20.20	20.20	3.0	22.0
	16QAM	1	0	17.92	18.14	18.10	0.0	20.0	18.10	18.22	18.29	5.0	20.0
		1	8	17.96	18.38	18.19	0.0	20.0	18.17	18.42	18.30	5.0	20.0
		1	14	17.95	18.22	18.05	0.0	20.0	18.03	18.32	18.13	5.0	20.0
	64QAM	8	0	17.92	18.11	18.03	0.0	20.0	18.01	18.22	18.17	5.0	20.0
		8	4	17.93	18.16	18.08	0.0	20.0	18.06	18.27	18.21	5.0	20.0
		8	7	17.93	18.21	18.08	0.0	20.0	18.04	18.32	18.19	5.0	20.0
	256QAM	15	0	17.88	18.11	18.03	0.0	20.0	17.98	18.19	18.18	5.0	20.0
		1	0	17.85	18.15	18.01	0.0	20.0	22.96	23.24	23.15	0.0	25.0
	QPSK	1	3	17.91	18.18	18.05	0.0	20.0	23.00	23.30	23.21	0.0	25.0
		1	5	17.87	18.12	18.02	0.0	20.0	22.94	23.27	23.13	0.0	25.0
		3	0	17.88	18.16	18.04	0.0	20.0	22.95	23.32	23.19	0.0	25.0
		3	1	17.86	18.19	18.07	0.0	20.0	22.98	23.31	23.15	0.0	25.0
	16QAM	3	3	17.86	18.17	18.03	0.0	20.0	22.96	23.31	23.20	0.0	25.0
		6	0	17.88	18.15	18.01	0.0	20.0	21.94	22.25	22.16	1.0	24.0
	64QAM	1	0	18.18	18.30	18.31	0.0	20.0	22.18	22.47	22.49	1.0	24.0
		1	3	18.16	18.35	18.38	0.0	20.0	22.30	22.48	22.54	1.0	24.0
		1	5	18.19	18.40	18.31	0.0	20.0	22.39	22.51	22.47	1.0	24.0
		3	0	18.00	18.29	18.16	0.0	20.0	22.16	22.40	22.33	1.0	24.0
	256QAM	3	1	18.04	18.31	18.18	0.0	20.0	22.12	22.44	22.34	1.0	24.0
		3	3	18.01	18.25	18.17	0.0	20.0	22.19	22.42	22.30	1.0	24.0
	QPSK	6	0	17.96	18.20	18.10	0.0	20.0	21.08	21.37	21.21	2.0	23.0
		1	0	17.88	18.31	18.12	0.0	20.0	20.98	21.42	21.35	2.0	23.0
		1	3	18.01	18.36	18.21	0.0	20.0	21.06	21.52	21.37	2.0	23.0
		1	5	17.87	18.36	18.14	0.0	20.0	20.99	21.45	21.32	2.0	23.0
		3	0	17.98	18.20	18.06	0.0	20.0	21.00	21.28	21.26	2.0	23.0
	16QAM	3	1	17.99	18.23	18.11	0.0	20.0	21.03	21.34	21.25	2.0	23.0
		3	3	17.97	18.21	18.07	0.0	20.0	21.06	21.37	21.26	2.0	23.0
		6	0	17.87	18.17	18.02	0.0	20.0	19.95	20.28	20.08	3.0	22.0
	64QAM	1	0	17.84	18.24	18.18	0.0	20.0	18.06	18.44	18.17	5.0	20.0
		1	3	18.01	18.31	18.18	0.0	20.0	18.11	18.35	18.25	5.0	20.0
		1	5	17.83	18.18	18.11	0.0	20.0	18.13	18.34	18.24	5.0	20.0
	256QAM	3	0	17.91	18.21	18.07	0.0	20.0	17.91	18.28	18.12	5.0	20.0
		3	1	17.93	18.14	18.06	0.0	20.0	18.01	18.33	18.19	5.0	20.0
		3	3	17.89	18.19	18.08	0.0	20.0	18.00	18.24	18.13	5.0	20.0
		6	0	17.87	18.19	18.03	0.0	20.0	18.0	18.1	18.1	5.0	20.0

LTE Band 66 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				DSI = 0, 2, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072 1720 MHz	132322 1745 MHz	132572 1770 MHz		
20 MHz	QPSK	1	0	18.24	18.53	18.45	0.0	20.0
		1	49	18.28	18.30	18.43	0.0	20.0
		1	99	18.39	18.66	18.37	0.0	20.0
		50	0	18.26	18.48	18.52	0.0	20.0
		50	24	18.36	18.48	18.51	0.0	20.0
		50	50	18.36	18.64	18.50	0.0	20.0
		100	0	18.40	18.51	18.57	0.0	20.0
	16QAM	1	0	18.50	18.30	18.58	0.0	20.0
		1	49	18.34	18.87	18.02	0.0	20.0
		1	99	18.66	18.57	18.24	0.0	20.0
		50	0	18.24	18.45	18.53	0.0	20.0
		50	24	18.36	18.43	18.56	0.0	20.0
		50	50	18.28	18.48	18.55	0.0	20.0
		100	0	18.31	18.40	18.54	0.0	20.0
	64QAM	1	0	18.40	18.43	18.42	0.0	20.0
		1	49	18.59	18.49	18.53	0.0	20.0
		1	99	18.78	18.92	18.39	0.0	20.0
		50	0	18.18	18.37	18.62	0.0	20.0
		50	24	18.43	18.46	18.49	0.0	20.0
		50	50	17.95	18.50	18.52	0.0	20.0
		100	0	18.60	18.54	18.50	0.0	20.0
	256QAM	1	0	18.28	18.56	18.55	0.0	20.0
		1	49	18.19	18.99	18.65	0.0	20.0
		1	99	18.75	18.96	18.34	0.0	20.0
		50	0	18.16	18.44	18.50	0.0	20.0
		50	24	18.37	18.37	18.52	0.0	20.0
		50	50	18.38	18.58	18.58	0.0	20.0
		100	0	18.31	18.35	18.57	0.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047 1717.5 MHz	132322 1745 MHz	132597 1772.5 MHz		
15 MHz	QPSK	1	0	18.11	18.31	18.06	0.0	20.0
		1	37	18.16	18.30	18.27	0.0	20.0
		1	74	18.23	18.25	18.23	0.0	20.0
		36	0	18.08	18.33	18.30	0.0	20.0
		36	20	18.22	18.25	18.37	0.0	20.0
		36	39	18.20	18.34	18.25	0.0	20.0
		75	0	18.18	18.22	18.37	0.0	20.0
	16QAM	1	0	18.04	18.30	18.50	0.0	20.0
		1	37	17.88	18.26	18.69	0.0	20.0
		1	74	18.31	18.79	18.12	0.0	20.0
		36	0	17.95	18.18	18.25	0.0	20.0
		36	20	18.11	18.28	18.30	0.0	20.0
		36	39	18.11	18.23	18.38	0.0	20.0
		75	0	18.13	18.21	18.33	0.0	20.0
	64QAM	1	0	18.52	18.07	18.29	0.0	20.0
		1	37	18.30	18.89	18.32	0.0	20.0
		1	74	18.16	18.42	17.95	0.0	20.0
		36	0	17.93	18.17	18.29	0.0	20.0
		36	20	18.07	18.27	18.25	0.0	20.0
		36	39	18.16	18.36	18.22	0.0	20.0
		75	0	18.22	18.26	18.37	0.0	20.0
	256QAM	1	0	18.17	18.08	18.23	0.0	20.0
		1	37	17.67	18.63	18.27	0.0	20.0
		1	74	18.17	18.69	18.57	0.0	20.0
		36	0	17.90	18.21	18.43	0.0	20.0
		36	20	18.23	18.38	18.29	0.0	20.0
		36	39	18.10	18.29	18.28	0.0	20.0
		75	0	18.25	18.29	18.39	0.0	20.0

LTE Band 66 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	18.05	18.40	18.36	0.0	20.0
		1	25	18.15	18.49	18.38	0.0	20.0
		1	49	18.29	18.44	18.40	0.0	20.0
		25	0	18.11	18.41	18.45	0.0	20.0
		25	12	18.31	18.43	18.48	0.0	20.0
		25	25	18.23	18.40	18.46	0.0	20.0
		50	0	18.27	18.41	18.51	0.0	20.0
	16QAM	1	0	18.17	18.54	18.46	0.0	20.0
		1	25	18.61	18.61	18.46	0.0	20.0
		1	49	18.15	18.64	18.55	0.0	20.0
		25	0	18.06	18.30	18.55	0.0	20.0
		25	12	18.33	18.46	18.38	0.0	20.0
		25	25	18.33	18.48	18.60	0.0	20.0
		50	0	18.22	18.42	18.51	0.0	20.0
	64QAM	1	0	18.36	18.57	18.35	0.0	20.0
		1	25	17.84	18.48	18.91	0.0	20.0
		1	49	18.32	18.82	18.55	0.0	20.0
		25	0	18.20	18.33	18.41	0.0	20.0
		25	12	18.34	18.33	18.52	0.0	20.0
		25	25	18.21	18.49	18.44	0.0	20.0
		50	0	18.27	18.43	18.47	0.0	20.0
	256QAM	1	0	17.74	18.25	18.34	0.0	20.0
		1	25	18.11	18.50	18.78	0.0	20.0
		1	49	18.48	18.56	18.46	0.0	20.0
		25	0	18.05	18.43	18.53	0.0	20.0
		25	12	18.38	18.48	18.49	0.0	20.0
		25	25	18.28	18.49	18.68	0.0	20.0
		50	0	18.21	18.52	18.39	0.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	18.16	18.37	18.28	0.0	20.0
		1	12	18.16	18.50	18.35	0.0	20.0
		1	24	18.10	18.44	18.36	0.0	20.0
		12	0	18.13	18.36	18.43	0.0	20.0
		12	7	18.25	18.51	18.43	0.0	20.0
		12	13	18.20	18.39	18.43	0.0	20.0
		25	0	18.21	18.49	18.43	0.0	20.0
	16QAM	1	0	18.36	18.44	18.59	0.0	20.0
		1	12	18.26	18.61	18.66	0.0	20.0
		1	24	18.34	18.67	18.70	0.0	20.0
		12	0	18.20	18.27	18.37	0.0	20.0
		12	7	18.15	18.57	18.60	0.0	20.0
		12	13	18.28	18.32	18.43	0.0	20.0
		25	0	18.20	18.40	18.50	0.0	20.0
	64QAM	1	0	18.06	18.67	18.69	0.0	20.0
		1	12	18.13	18.48	18.50	0.0	20.0
		1	24	18.75	18.36	18.63	0.0	20.0
		12	0	18.22	18.40	18.34	0.0	20.0
		12	7	18.25	18.54	18.57	0.0	20.0
		12	13	18.25	18.46	18.36	0.0	20.0
		25	0	18.22	18.41	18.39	0.0	20.0
	256QAM	1	0	18.24	18.64	18.47	0.0	20.0
		1	12	18.37	18.56	18.71	0.0	20.0
		1	24	18.50	18.64	17.79	0.0	20.0
		12	0	18.29	18.41	18.44	0.0	20.0
		12	7	18.27	18.46	18.48	0.0	20.0
		12	13	18.28	18.41	18.39	0.0	20.0
		25	0	18.20	18.32	18.28	0.0	20.0

LTE Band 66 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	18.01	18.35	18.32	0.0	20.0
		1	8	18.13	18.59	18.40	0.0	20.0
		1	14	18.13	18.43	18.21	0.0	20.0
		8	0	18.14	18.35	18.43	0.0	20.0
		8	4	18.20	18.51	18.40	0.0	20.0
		8	7	18.18	18.51	18.38	0.0	20.0
		15	0	18.21	18.42	18.41	0.0	20.0
	16QAM	1	0	18.35	18.46	18.35	0.0	20.0
		1	8	18.37	18.79	18.52	0.0	20.0
		1	14	18.37	18.69	18.32	0.0	20.0
		8	0	18.16	18.27	18.44	0.0	20.0
		8	4	18.17	18.58	18.56	0.0	20.0
		8	7	18.21	18.56	18.36	0.0	20.0
		15	0	18.26	18.38	18.37	0.0	20.0
	64QAM	1	0	18.80	18.23	18.72	0.0	20.0
		1	8	18.20	18.74	18.71	0.0	20.0
		1	14	18.06	18.69	18.22	0.0	20.0
		8	0	18.23	18.34	18.44	0.0	20.0
		8	4	18.16	18.56	18.43	0.0	20.0
		8	7	18.16	18.36	18.58	0.0	20.0
		15	0	18.23	18.49	18.46	0.0	20.0
	256QAM	1	0	18.18	18.50	18.64	0.0	20.0
		1	8	17.73	18.87	18.72	0.0	20.0
		1	14	18.46	18.20	18.31	0.0	20.0
		8	0	18.17	18.43	18.43	0.0	20.0
		8	4	18.32	18.56	18.29	0.0	20.0
		8	7	18.08	18.57	18.49	0.0	20.0
		15	0	18.27	18.45	18.38	0.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	18.00	18.37	18.36	0.0	20.0
		1	3	18.17	18.48	18.37	0.0	20.0
		1	5	18.16	18.44	18.26	0.0	20.0
		3	0	18.11	18.44	18.38	0.0	20.0
		3	1	18.12	18.48	18.35	0.0	20.0
		3	3	18.11	18.37	18.38	0.0	20.0
		6	0	18.15	18.47	18.40	0.0	20.0
	16QAM	1	0	18.49	18.54	18.83	0.0	20.0
		1	3	18.22	18.80	18.76	0.0	20.0
		1	5	18.27	18.45	18.74	0.0	20.0
		3	0	18.06	18.57	18.57	0.0	20.0
		3	1	18.33	18.50	18.34	0.0	20.0
		3	3	18.38	18.38	18.36	0.0	20.0
		6	0	18.12	18.40	18.45	0.0	20.0
	64QAM	1	0	18.43	18.85	18.42	0.0	20.0
		1	3	18.02	18.51	18.45	0.0	20.0
		1	5	18.41	18.71	18.44	0.0	20.0
		3	0	18.22	18.39	18.40	0.0	20.0
		3	1	18.41	18.59	18.15	0.0	20.0
		3	3	18.34	18.58	18.66	0.0	20.0
		6	0	18.11	18.48	18.35	0.0	20.0
	256QAM	1	0	18.27	18.48	18.84	0.0	20.0
		1	3	18.41	18.99	18.57	0.0	20.0
		1	5	18.22	18.66	18.25	0.0	20.0
		3	0	18.24	18.49	18.16	0.0	20.0
		3	1	18.29	18.47	18.68	0.0	20.0
		3	3	18.42	18.64	18.72	0.0	20.0
		6	0	18.36	18.52	18.44	0.0	20.0

LTE Band 25 (Main.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0, 3, 4					DSI = 2				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26140	26365	26590			26140	26365	26590		
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	17.96	18.07	18.08	0.0	20.0	22.92	23.16	23.07	0.0	25.0
		1	49	18.21	18.08	18.22	0.0	20.0	23.01	23.18	23.27	0.0	25.0
		1	99	17.95	18.10	18.09	0.0	20.0	23.01	23.25	23.07	0.0	25.0
		50	0	18.06	18.17	18.12	0.0	20.0	22.04	22.21	22.19	1.0	24.0
		50	24	18.19	18.22	18.26	0.0	20.0	22.07	22.18	22.25	1.0	24.0
		50	50	18.22	18.24	18.24	0.0	20.0	22.03	22.24	22.19	1.0	24.0
		100	0	18.11	18.16	18.29	0.0	20.0	22.15	22.18	22.21	1.0	24.0
	16QAM	1	0	18.55	18.14	18.05	0.0	20.0	22.44	22.36	21.99	1.0	24.0
		1	49	18.23	18.28	18.33	0.0	20.0	22.44	22.59	22.08	1.0	24.0
		1	99	18.18	18.27	18.14	0.0	20.0	22.62	22.42	22.18	1.0	24.0
		50	0	18.10	18.20	18.18	0.0	20.0	20.90	21.23	21.22	2.0	23.0
		50	24	18.11	18.21	18.16	0.0	20.0	21.11	21.23	21.28	2.0	23.0
		50	50	18.29	18.20	18.13	0.0	20.0	21.06	21.32	21.21	2.0	23.0
		100	0	18.15	18.17	18.22	0.0	20.0	21.11	21.13	21.27	2.0	23.0
	64QAM	1	0	18.45	18.12	18.25	0.0	20.0	21.42	21.46	20.94	2.0	23.0
		1	49	18.41	18.13	18.22	0.0	20.0	21.43	21.40	20.98	2.0	23.0
		1	99	18.29	18.55	18.51	0.0	20.0	21.46	21.07	20.76	2.0	23.0
		50	0	18.06	18.26	18.04	0.0	20.0	20.94	20.15	20.25	3.0	22.0
		50	24	18.22	18.22	18.12	0.0	20.0	20.32	20.26	20.22	3.0	22.0
		50	50	18.23	18.26	18.34	0.0	20.0	20.31	20.23	20.26	3.0	22.0
		100	0	18.08	18.11	18.29	0.0	20.0	20.15	20.17	20.20	3.0	22.0
	256QAM	1	0	17.39	17.29	17.87	1.0	19.0	17.84	18.07	18.48	5.0	20.0
		1	49	17.60	17.17	17.29	1.0	19.0	18.10	18.11	18.30	5.0	20.0
		1	99	17.38	17.42	17.86	1.0	19.0	18.02	18.13	18.34	5.0	20.0
		50	0	17.15	17.27	17.30	1.0	19.0	17.85	18.06	18.08	5.0	20.0
		50	24	17.28	17.34	17.40	1.0	19.0	18.11	18.26	18.27	5.0	20.0
		50	50	17.31	17.48	17.37	1.0	19.0	18.11	18.26	18.25	5.0	20.0
		100	0	17.30	17.26	17.25	1.0	19.0	18.05	18.16	18.24	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26115	26365	26615			26115	26365	26615		
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	18.04	18.07	18.04	0.0	20.0	22.86	23.08	23.12	0.0	25.0
		1	37	18.07	18.22	17.99	0.0	20.0	23.01	23.17	23.08	0.0	25.0
		1	74	17.96	18.20	17.96	0.0	20.0	23.02	23.10	22.97	0.0	25.0
		36	0	18.12	18.18	18.19	0.0	20.0	22.02	22.19	22.15	1.0	24.0
		36	20	18.12	18.15	18.22	0.0	20.0	22.07	22.16	22.20	1.0	24.0
		36	39	18.17	18.30	18.25	0.0	20.0	22.07	22.27	22.22	1.0	24.0
		75	0	18.12	18.14	18.22	0.0	20.0	22.07	22.22	22.24	1.0	24.0
	16QAM	1	0	18.11	18.17	18.30	0.0	20.0	22.08	22.49	22.22	1.0	24.0
		1	37	18.01	18.56	18.34	0.0	20.0	21.88	22.53	22.11	1.0	24.0
		1	74	18.15	18.00	18.02	0.0	20.0	21.92	22.20	22.14	1.0	24.0
		36	0	18.17	18.10	18.06	0.0	20.0	21.01	21.18	21.21	2.0	23.0
		36	20	18.21	18.20	18.24	0.0	20.0	21.03	21.19	21.24	2.0	23.0
		36	39	18.15	18.20	18.18	0.0	20.0	21.04	21.23	21.13	2.0	23.0
		75	0	18.06	18.16	18.23	0.0	20.0	21.06	21.14	21.29	2.0	23.0
	64QAM	1	0	18.06	18.36	18.25	0.0	20.0	21.15	21.35	21.26	2.0	23.0
		1	37	18.10	18.04	18.26	0.0	20.0	20.99	21.25	21.00	2.0	23.0
		1	74	18.36	18.19	18.36	0.0	20.0	20.80	21.28	21.01	2.0	23.0
		36	0	18.13	18.29	18.15	0.0	20.0	20.02	20.11	20.22	3.0	22.0
		36	20	18.08	18.25	18.13	0.0	20.0	20.05	20.16	20.12	3.0	22.0
		36	39	18.04	18.24	18.18	0.0	20.0	20.09	20.28	20.17	3.0	22.0
		75	0	18.18	18.10	18.32	0.0	20.0	20.01	20.13	20.25	3.0	22.0
	256QAM	1	0	16.99	17.47	17.30	1.0	19.0	18.06	18.32	18.27	5.0	20.0
		1	37	17.58	17.56	17.56	1.0	19.0	17.76	17.87	17.95	5.0	20.0
		1	74	17.51	17.02	17.48	1.0	19.0	18.25	18.48	18.33	5.0	20.0
		36	0	17.21	17.29	17.30	1.0	19.0	18.00	18.08	18.13	5.0	20.0
		36	20	17.25	17.24	17.39	1.0	19.0	18.05	18.13	18.26	5.0	20.0
		36	39	17.26	17.39	17.40	1.0	19.0	18.06	18.20	18.16	5.0	20.0
		75	0	17.28	17.30	17.33	1.0	19.0	18.11	18.08	18.18	5.0	20.0

LTE Band 25 (Main.2) 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	17.80	17.78	17.83	0.0	20.0	22.94	23.43	23.14	0.0	25.0
		1	25	17.70	17.97	17.78	0.0	20.0	23.26	23.40	23.35	0.0	25.0
		1	49	17.75	17.88	17.90	0.0	20.0	22.99	23.40	23.29	0.0	25.0
		25	0	17.82	17.94	17.91	0.0	20.0	22.16	22.42	22.35	1.0	24.0
		25	12	17.86	17.88	17.87	0.0	20.0	22.21	22.36	22.26	1.0	24.0
		25	25	17.87	17.96	17.89	0.0	20.0	22.19	22.38	22.33	1.0	24.0
	16QAM	50	0	17.84	17.96	17.79	0.0	20.0	22.25	22.29	22.24	1.0	24.0
		1	0	17.79	18.04	18.01	0.0	20.0	22.15	22.95	22.31	1.0	24.0
		1	25	18.09	18.10	18.09	0.0	20.0	22.52	22.91	22.58	1.0	24.0
		1	49	17.99	18.13	17.65	0.0	20.0	22.31	22.31	22.23	1.0	24.0
		25	0	17.77	17.83	17.92	0.0	20.0	21.18	21.23	21.37	2.0	23.0
		25	12	17.86	17.93	17.87	0.0	20.0	21.17	21.34	21.30	2.0	23.0
	64QAM	25	25	17.83	17.97	18.00	0.0	20.0	21.25	21.37	21.42	2.0	23.0
		50	0	17.90	17.91	17.81	0.0	20.0	21.15	21.37	21.28	2.0	23.0
		1	0	17.97	17.70	18.14	0.0	20.0	21.24	21.24	21.78	2.0	23.0
		1	25	17.78	18.19	18.04	0.0	20.0	21.59	21.33	21.50	2.0	23.0
		1	49	17.84	18.23	17.93	0.0	20.0	21.30	21.22	21.05	2.0	23.0
		25	0	17.87	17.87	17.90	0.0	20.0	20.22	20.39	20.38	3.0	22.0
	256QAM	25	12	17.90	17.86	17.94	0.0	20.0	20.31	20.30	20.26	3.0	22.0
		25	25	17.83	17.97	18.06	0.0	20.0	20.13	20.42	20.40	3.0	22.0
		50	0	17.84	17.81	17.89	0.0	20.0	20.11	20.30	20.33	3.0	22.0
		1	0	17.42	17.01	16.86	1.0	19.0	17.90	18.33	18.19	5.0	20.0
		1	25	16.96	17.04	16.96	1.0	19.0	18.28	18.63	18.24	5.0	20.0
		1	49	17.04	17.15	16.94	1.0	19.0	18.08	18.48	18.07	5.0	20.0
		25	0	16.93	17.05	16.96	1.0	19.0	18.14	18.29	18.30	5.0	20.0
		25	12	17.06	16.92	17.01	1.0	19.0	18.19	18.43	18.35	5.0	20.0
		25	25	16.98	17.04	17.08	1.0	19.0	18.23	18.32	18.28	5.0	20.0
		50	0	16.97	16.95	17.03	1.0	19.0	18.21	18.30	18.31	5.0	20.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26065	26365	26665			26065	26365	26665		
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	18.20	18.18	18.23	0.0	20.0	23.08	23.28	23.31	0.0	25.0
		1	12	18.10	18.37	18.18	0.0	20.0	23.12	23.40	23.31	0.0	25.0
		1	24	18.15	18.28	18.30	0.0	20.0	23.29	23.36	23.28	0.0	25.0
		12	0	18.22	18.34	18.31	0.0	20.0	22.12	22.29	22.24	1.0	24.0
		12	7	18.26	18.28	18.27	0.0	20.0	22.24	22.31	22.38	1.0	24.0
		12	13	18.27	18.36	18.29	0.0	20.0	22.20	22.44	22.36	1.0	24.0
	16QAM	25	0	18.24	18.36	18.19	0.0	20.0	22.17	22.37	22.32	1.0	24.0
		1	0	18.19	18.44	18.41	0.0	20.0	22.27	22.69	22.27	1.0	24.0
		1	12	18.49	18.50	18.49	0.0	20.0	22.45	22.15	22.51	1.0	24.0
		1	24	18.39	18.53	18.05	0.0	20.0	22.32	22.39	22.53	1.0	24.0
		12	0	18.17	18.23	18.32	0.0	20.0	21.20	21.23	21.33	2.0	23.0
		12	7	18.26	18.33	18.27	0.0	20.0	21.30	21.40	21.35	2.0	23.0
	64QAM	12	13	18.23	18.37	18.40	0.0	20.0	21.23	21.31	21.43	2.0	23.0
		25	0	18.30	18.31	18.21	0.0	20.0	21.15	21.29	21.26	2.0	23.0
		1	0	18.37	18.10	18.54	0.0	20.0	21.26	21.58	21.44	2.0	23.0
		1	12	18.18	18.59	18.44	0.0	20.0	21.07	21.22	21.37	2.0	23.0
		1	24	18.24	18.63	18.33	0.0	20.0	21.27	21.48	21.18	2.0	23.0
		12	0	18.27	18.27	18.30	0.0	20.0	20.21	20.31	20.28	3.0	22.0
	256QAM	12	7	18.30	18.26	18.34	0.0	20.0	20.16	20.36	20.37	3.0	22.0
		12	13	18.23	18.37	18.46	0.0	20.0	20.19	20.46	20.28	3.0	22.0
		25	0	18.24	18.21	18.29	0.0	20.0	20.21	20.19	20.40	3.0	22.0
		1	0	17.82	17.41	17.26	1.0	19.0	18.51	18.41	18.46	5.0	20.0
		1	12	17.36	17.44	17.36	1.0	19.0	18.24	18.50	18.72	5.0	20.0
		1	24	17.44	17.55	17.34	1.0	19.0	17.99	18.72	18.35	5.0	20.0
		12	0	17.33	17.45	17.36	1.0	19.0	18.15	18.31	18.31	5.0	20.0
		12	7	17.46	17.32	17.41	1.0	19.0	18.29	18.28	18.33	5.0	20.0
		12	13	17.38	17.44	17.48	1.0	19.0	18.22	18.35	18.29	5.0	20.0
		25	0	17.37	17.35	17.43	1.0	19.0	18.20	18.26	18.34	5.0	20.0

LTE Band 25 (Main.2) 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	18.10	18.24	18.27	0.00	20.00	23.32	23.25	23.24	0.00	25.00
		1	8	18.28	18.45	18.32	0.00	20.00	23.25	23.36	23.42	0.00	25.00
		1	14	18.12	18.21	18.14	0.00	20.00	23.42	23.29	23.16	0.00	25.00
		8	0	18.19	18.32	18.34	0.00	20.00	22.42	22.27	22.27	1.00	24.00
		8	4	18.26	18.35	18.35	0.00	20.00	22.35	22.29	22.31	1.00	24.00
		8	7	18.27	18.33	18.29	0.00	20.00	22.14	22.37	22.34	1.00	24.00
	16QAM	15	0	18.20	18.26	18.35	0.00	20.00	22.15	22.31	22.30	1.00	24.00
		1	0	18.58	18.62	18.40	0.00	20.00	22.10	22.32	22.38	1.00	24.00
		1	8	18.31	18.55	18.70	0.00	20.00	22.02	22.31	22.74	1.00	24.00
		1	14	18.06	18.87	18.56	0.00	20.00	22.28	22.47	22.41	1.00	24.00
		8	0	18.30	18.21	18.40	0.00	20.00	21.17	21.40	21.41	2.00	23.00
		8	4	18.18	18.44	18.45	0.00	20.00	21.11	21.41	21.45	2.00	23.00
	64QAM	8	7	18.37	18.38	18.45	0.00	20.00	21.17	21.33	21.28	2.00	23.00
		15	0	18.24	18.30	18.12	0.00	20.00	21.26	21.19	21.37	2.00	23.00
		1	0	18.50	18.37	18.57	0.00	20.00	21.54	21.29	21.36	2.00	23.00
		1	8	18.64	18.72	18.68	0.00	20.00	21.45	21.79	20.83	2.00	23.00
		1	14	18.59	18.34	17.97	0.00	20.00	20.79	21.75	21.66	2.00	23.00
		8	0	18.21	18.37	18.35	0.00	20.00	20.27	20.40	20.42	3.00	22.00
1.4 MHz	QPSK	8	4	18.25	18.29	18.39	0.00	20.00	20.03	20.42	20.48	3.00	22.00
		8	7	18.20	18.25	18.18	0.00	20.00	20.10	20.27	20.26	3.00	22.00
		15	0	18.21	18.34	18.28	0.00	20.00	20.19	20.29	20.30	3.00	22.00
	16QAM	1	0	17.20	17.49	17.26	1.00	19.00	18.45	18.63	18.12	5.00	20.00
		1	8	17.44	17.42	18.09	1.00	19.00	18.49	18.37	18.36	5.00	20.00
		1	14	17.60	17.70	17.69	1.00	19.00	17.75	18.55	18.37	5.00	20.00
	64QAM	8	0	17.43	17.43	17.47	1.00	19.00	18.12	18.38	18.38	5.00	20.00
		8	4	17.27	17.53	17.46	1.00	19.00	18.17	18.35	18.39	5.00	20.00
		8	7	17.40	17.43	17.32	1.00	19.00	18.03	18.32	18.26	5.00	20.00
	256QAM	15	0	17.38	17.32	17.40	1.00	19.00	18.13	18.30	18.35	5.00	20.00
		1	0	18.16	18.11	18.26	0.00	20.00	23.03	23.34	23.19	0.00	25.00
	QPSK	1	3	18.15	18.33	18.30	0.00	20.00	23.16	23.43	23.28	0.00	25.00
		1	5	18.19	18.30	18.18	0.00	20.00	23.10	23.26	23.31	0.00	25.00
		3	0	18.14	18.45	18.26	0.00	20.00	23.22	23.34	23.26	0.00	25.00
		3	1	18.17	18.29	18.31	0.00	20.00	23.21	23.41	23.27	0.00	25.00
		3	3	18.31	18.30	18.25	0.00	20.00	23.20	23.33	23.40	0.00	25.00
	16QAM	6	0	18.23	18.29	18.24	0.00	20.00	22.17	22.32	22.33	1.00	24.00
		1	0	18.24	18.41	18.15	0.00	20.00	22.17	22.40	22.34	1.00	24.00
		1	3	18.10	18.45	18.29	0.00	20.00	22.63	22.54	22.41	1.00	24.00
		1	5	18.54	18.16	18.28	0.00	20.00	21.86	22.62	22.16	1.00	24.00
		3	0	18.29	18.43	18.30	0.00	20.00	22.28	22.64	22.16	1.00	24.00
		3	1	18.23	18.41	18.36	0.00	20.00	22.16	22.48	22.37	1.00	24.00
1.4 MHz	64QAM	3	3	18.45	18.27	18.43	0.00	20.00	22.23	22.56	22.30	1.00	24.00
		6	0	18.22	18.24	18.16	0.00	20.00	21.19	21.35	21.32	2.00	23.00
		1	0	18.21	18.62	18.15	0.00	20.00	21.28	21.44	20.97	2.00	23.00
		1	3	18.41	18.24	18.47	0.00	20.00	21.12	21.77	21.29	2.00	23.00
		1	5	18.06	18.78	18.35	0.00	20.00	21.07	21.32	21.53	2.00	23.00
		3	0	18.32	18.40	18.24	0.00	20.00	21.16	21.36	21.44	2.00	23.00
	256QAM	3	1	18.32	18.15	18.26	0.00	20.00	21.19	21.20	21.07	2.00	23.00
		3	3	18.33	18.37	18.35	0.00	20.00	21.10	21.42	21.55	2.00	23.00
		6	0	18.16	18.38	18.21	0.00	20.00	20.15	20.44	20.32	3.00	22.00
		1	0	17.50	17.50	17.41	1.00	19.00	18.11	18.14	18.44	5.00	20.00
		1	3	17.17	17.18	16.98	1.00	19.00	18.20	18.74	18.63	5.00	20.00
		1	5	17.49	17.41	17.42	1.00	19.00	18.41	18.57	18.46	5.00	20.00
	256QAM	3	0	17.35	17.43	17.50	1.00	19.00	18.29	18.27	18.27	5.00	20.00
		3	1	17.48	17.47	17.45	1.00	19.00	18.30	18.45	18.42	5.00	20.00
		3	3	17.45	17.42	17.32	1.00	19.00	18.32	18.30	18.34	5.00	20.00
		6	0	17.39	17.39	17.20	1.00	19.00	18.04	18.47	18.17	5.00	20.00

LTE Band 25 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0,3,4					DSI = 2				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26140	26365	26590			26140	26365	26590		
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	20.08	19.98	19.80	0.0	21.0	18.06	17.99	17.81	0.0	20.0
		1	49	20.09	19.92	19.90	0.0	21.0	18.10	18.03	17.95	0.0	20.0
		1	99	20.07	20.01	20.06	0.0	21.0	17.94	17.90	17.72	0.0	20.0
		50	0	20.09	20.05	20.00	0.0	21.0	18.09	18.08	17.91	0.0	20.0
		50	24	20.17	20.02	19.99	0.0	21.0	18.13	18.06	18.04	0.0	20.0
		50	50	20.11	19.96	19.80	0.0	21.0	18.10	18.04	17.99	0.0	20.0
	16QAM	100	0	20.15	20.00	19.99	0.0	21.0	18.14	18.03	18.01	0.0	20.0
		1	0	20.34	20.44	20.11	0.0	21.0	18.24	18.05	18.12	0.0	20.0
		1	49	19.81	20.32	20.30	0.0	21.0	18.11	18.00	18.47	0.0	20.0
		1	99	20.47	20.46	19.87	0.0	21.0	18.17	18.30	17.74	0.0	20.0
		50	0	20.08	20.10	20.03	0.0	21.0	18.13	18.06	17.90	0.0	20.0
		50	24	20.15	20.05	20.13	0.0	21.0	18.11	18.01	17.99	0.0	20.0
	64QAM	50	50	20.17	20.02	19.95	0.0	21.0	18.14	18.04	17.95	0.0	20.0
		100	0	20.07	20.05	19.97	0.0	21.0	18.07	17.98	18.04	0.0	20.0
		1	0	20.01	20.27	19.93	0.0	21.0	18.17	18.00	18.00	0.0	20.0
		1	49	20.18	20.36	20.28	0.0	21.0	18.03	18.19	18.00	0.0	20.0
		1	99	20.39	19.94	19.98	0.0	21.0	18.20	18.42	17.78	0.0	20.0
		50	0	20.05	20.07	20.05	0.0	21.0	18.03	18.00	17.87	0.0	20.0
	256QAM	50	24	20.22	20.01	20.08	0.0	21.0	18.06	18.02	17.95	0.0	20.0
		50	50	20.04	19.99	19.93	0.0	21.0	18.08	17.85	17.89	0.0	20.0
		100	0	20.16	20.00	20.09	0.0	21.0	18.05	18.01	17.92	0.0	20.0
		1	0	18.13	18.12	17.91	1.0	20.0	18.10	18.03	17.95	1.0	19.0
		1	49	18.22	17.84	17.89	1.0	20.0	18.12	17.92	18.14	1.0	19.0
		1	99	18.50	18.32	18.38	1.0	20.0	17.87	17.88	18.19	1.0	19.0
15 MHz	QPSK	50	0	18.08	18.08	18.13	1.0	20.0	18.05	18.01	17.93	1.0	19.0
		50	24	18.19	18.21	18.13	1.0	20.0	18.23	18.01	18.04	1.0	19.0
		50	50	18.18	18.19	17.99	1.0	20.0	18.10	18.04	17.97	1.0	19.0
		100	0	18.20	18.17	18.06	1.0	20.0	18.10	18.02	18.05	1.0	19.0
	16QAM	1	0	19.98	19.91	19.81	0.0	21.0	18.14	18.04	17.87	0.0	20.0
		1	37	19.88	20.11	19.87	0.0	21.0	17.97	17.90	17.97	0.0	20.0
		1	74	19.95	19.76	19.80	0.0	21.0	18.13	17.77	17.88	0.0	20.0
		36	0	19.64	20.05	19.92	0.0	21.0	18.03	18.04	17.93	0.0	20.0
		36	20	19.61	20.02	19.89	0.0	21.0	18.01	18.00	17.94	0.0	20.0
		36	39	20.03	19.93	19.87	0.0	21.0	18.08	18.11	17.83	0.0	20.0
	64QAM	75	0	20.14	20.05	20.05	0.0	21.0	18.10	18.03	17.98	0.0	20.0
		1	0	20.14	19.98	19.69	0.0	21.0	18.21	17.99	17.60	0.0	20.0
		1	37	19.93	20.21	20.48	0.0	21.0	18.33	17.91	18.22	0.0	20.0
		1	74	20.43	19.69	19.94	0.0	21.0	18.49	17.89	18.40	0.0	20.0
		36	0	20.12	20.09	20.00	0.0	21.0	18.05	17.84	17.96	0.0	20.0
		36	20	20.14	20.13	19.98	0.0	21.0	17.98	17.99	17.87	0.0	20.0
	256QAM	36	39	20.07	20.10	19.94	0.0	21.0	17.95	18.08	17.79	0.0	20.0
		75	0	20.09	20.04	19.91	0.0	21.0	18.10	17.98	17.85	0.0	20.0
		1	0	20.16	20.29	20.02	0.0	21.0	18.41	18.02	18.03	0.0	20.0
		1	37	20.09	20.28	19.83	0.0	21.0	18.11	18.06	17.64	0.0	20.0
		1	74	20.24	20.07	19.60	0.0	21.0	17.96	17.93	18.27	0.0	20.0
		36	0	20.11	20.06	19.92	0.0	21.0	18.13	17.98	17.88	0.0	20.0
	16QAM	36	20	20.04	20.00	19.92	0.0	21.0	18.15	18.04	17.90	0.0	20.0
		36	39	20.14	20.02	19.89	0.0	21.0	18.18	18.07	17.69	0.0	20.0
		75	0	20.12	20.08	19.88	0.0	21.0	18.13	18.11	18.05	0.0	20.0
	256QAM	1	0	18.30	18.10	17.95	1.0	20.0	17.99	18.12	18.06	1.0	19.0
		1	37	18.41	17.71	18.06	1.0	20.0	18.60	17.75	18.21	1.0	19.0
		1	74	18.43	18.33	18.19	1.0	20.0	17.91	17.76	17.91	1.0	19.0
	64QAM	36	0	18.14	18.07	18.03	1.0	20.0	18.08	17.99	17.88	1.0	19.0
		36	20	18.13	18.07	18.11	1.0	20.0	18.14	18.00	17.93	1.0	19.0
		36	39	18.25	18.12	17.95	1.0	20.0	18.08	17.94	17.88	1.0	19.0
		75	0	18.24	18.11	18.05	1.0	20.0	18.08	18.09	17.91	1.0	19.0

LTE Band 25 (Sub.2) 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	20.12	20.22	20.09	0.0	21.0	18.04	18.20	18.02	0.0	20.0
		1	25	20.35	20.16	19.85	0.0	21.0	18.19	18.31	18.01	0.0	20.0
		1	49	20.11	20.22	20.02	0.0	21.0	18.22	18.16	18.07	0.0	20.0
		25	0	20.21	20.25	20.03	0.0	21.0	18.19	18.28	18.07	0.0	20.0
		25	12	20.30	20.20	20.06	0.0	21.0	18.26	18.12	18.05	0.0	20.0
		25	25	20.24	20.12	20.11	0.0	21.0	18.21	18.15	17.95	0.0	20.0
	16QAM	50	0	20.21	20.15	20.13	0.0	21.0	18.20	18.18	18.06	0.0	20.0
		1	0	20.22	20.31	20.22	0.0	21.0	18.13	18.37	18.49	0.0	20.0
		1	25	19.97	20.32	20.17	0.0	21.0	18.33	18.21	17.93	0.0	20.0
		1	49	20.27	20.32	20.13	0.0	21.0	18.66	18.18	18.10	0.0	20.0
		25	0	20.20	20.26	20.05	0.0	21.0	18.18	18.19	18.01	0.0	20.0
		25	12	20.26	20.26	20.12	0.0	21.0	18.29	18.09	18.04	0.0	20.0
	64QAM	25	25	20.26	20.28	19.99	0.0	21.0	18.21	18.23	17.95	0.0	20.0
		50	0	20.19	20.15	20.17	0.0	21.0	18.23	18.06	18.15	0.0	20.0
		1	0	19.99	20.31	20.39	0.0	21.0	18.13	18.29	18.38	0.0	20.0
		1	25	20.39	20.26	20.19	0.0	21.0	18.61	18.60	18.20	0.0	20.0
		1	49	20.30	20.25	20.31	0.0	21.0	18.34	18.39	18.15	0.0	20.0
		25	0	20.29	20.31	20.11	0.0	21.0	18.21	18.21	18.12	0.0	20.0
	256QAM	25	12	20.33	20.15	20.11	0.0	21.0	18.23	18.19	18.03	0.0	20.0
		25	25	20.21	20.15	20.04	0.0	21.0	18.20	18.15	17.91	0.0	20.0
		50	0	20.23	20.26	20.18	0.0	21.0	18.18	18.26	18.08	0.0	20.0
		1	0	18.50	18.47	18.23	1.0	20.0	18.08	18.66	18.20	1.0	19.0
		1	25	18.27	18.25	18.38	1.0	20.0	18.30	17.75	18.28	1.0	19.0
		1	49	18.25	18.16	18.33	1.0	20.0	18.16	18.26	18.12	1.0	19.0
		25	0	18.36	18.41	18.15	1.0	20.0	18.18	18.29	18.10	1.0	19.0
		25	12	18.27	18.28	18.27	1.0	20.0	18.29	18.15	18.02	1.0	19.0
		25	25	18.41	18.37	18.15	1.0	20.0	18.24	18.14	18.03	1.0	19.0
		50	0	18.30	18.29	18.21	1.0	20.0	18.25	18.13	18.03	1.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26065	26365	26665			26065	26365	26665		
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	20.09	20.08	19.93	0.0	21.0	18.06	18.08	17.80	0.0	20.0
		1	12	20.16	20.24	20.19	0.0	21.0	18.16	18.28	18.02	0.0	20.0
		1	24	20.21	20.19	20.02	0.0	21.0	18.18	18.20	18.01	0.0	20.0
		12	0	20.22	20.23	20.08	0.0	21.0	18.19	18.18	18.06	0.0	20.0
		12	7	20.24	20.18	20.17	0.0	21.0	18.15	18.19	18.16	0.0	20.0
		12	13	20.20	20.17	20.12	0.0	21.0	18.19	18.16	18.17	0.0	20.0
	16QAM	25	0	20.20	20.12	20.07	0.0	21.0	18.19	18.16	18.08	0.0	20.0
		1	0	20.07	20.07	20.14	0.0	21.0	17.95	18.40	17.96	0.0	20.0
		1	12	20.67	20.43	20.32	0.0	21.0	18.44	18.36	18.10	0.0	20.0
		1	24	19.97	20.61	19.87	0.0	21.0	18.10	18.19	18.12	0.0	20.0
		12	0	20.23	20.36	20.14	0.0	21.0	18.15	18.17	18.00	0.0	20.0
		12	7	20.19	20.24	20.25	0.0	21.0	18.25	18.21	18.14	0.0	20.0
	64QAM	12	13	20.17	20.20	20.16	0.0	21.0	18.11	18.17	18.15	0.0	20.0
		25	0	20.24	20.11	20.15	0.0	21.0	18.17	18.12	18.09	0.0	20.0
		1	0	20.29	20.14	20.05	0.0	21.0	18.32	18.50	18.17	0.0	20.0
		1	12	20.42	20.74	20.15	0.0	21.0	18.32	18.42	18.26	0.0	20.0
		1	24	20.38	20.37	20.15	0.0	21.0	18.58	18.27	18.22	0.0	20.0
		12	0	20.29	20.23	20.08	0.0	21.0	18.25	18.12	18.03	0.0	20.0
	256QAM	12	7	20.24	20.11	20.03	0.0	21.0	18.27	18.30	18.17	0.0	20.0
		12	13	20.24	20.22	20.21	0.0	21.0	18.17	18.11	18.08	0.0	20.0
		25	0	20.19	20.15	20.06	0.0	21.0	18.16	18.15	18.11	0.0	20.0
		1	0	18.40	18.40	18.20	1.0	20.0	17.93	18.24	18.18	1.0	19.0
		1	12	18.26	18.44	18.20	1.0	20.0	18.43	18.59	18.02	1.0	19.0
		1	24	18.49	18.42	18.33	1.0	20.0	18.31	18.36	18.26	1.0	19.0
		12	0	18.31	18.40	18.18	1.0	20.0	18.23	18.13	17.98	1.0	19.0
		12	7	18.33	18.25	18.33	1.0	20.0	18.24	18.19	18.17	1.0	19.0
		12	13	18.19	18.15	18.26	1.0	20.0	18.23	18.12	18.22	1.0	19.0
		25	0	18.29	18.24	18.21	1.0	20.0	18.17	18.17	18.06	1.0	19.0

LTE Band 25 (Sub.2) 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	20.05	20.14	19.97	0.0	21.0	18.16	18.06	17.84	0.0	20.0
		1	8	20.07	20.19	20.15	0.0	21.0	18.20	18.24	18.15	0.0	20.0
		1	14	20.00	20.17	19.90	0.0	21.0	18.05	18.16	18.02	0.0	20.0
		8	0	20.22	20.20	20.16	0.0	21.0	18.17	18.06	18.07	0.0	20.0
		8	4	20.20	20.22	20.18	0.0	21.0	18.26	18.02	18.16	0.0	20.0
		8	7	20.17	20.21	20.11	0.0	21.0	18.16	18.10	18.11	0.0	20.0
	16QAM	15	0	20.20	20.14	20.05	0.0	21.0	18.17	18.06	18.14	0.0	20.0
		1	0	20.04	20.10	20.28	0.0	21.0	18.00	18.31	18.33	0.0	20.0
		1	8	19.73	20.39	20.04	0.0	21.0	18.31	18.02	18.12	0.0	20.0
		1	14	20.66	20.20	19.75	0.0	21.0	18.30	17.97	17.99	0.0	20.0
		8	0	20.22	20.16	20.20	0.0	21.0	18.19	18.15	18.07	0.0	20.0
		8	4	20.23	20.29	20.32	0.0	21.0	18.09	18.24	18.13	0.0	20.0
	64QAM	8	7	20.17	20.17	19.98	0.0	21.0	18.20	18.15	18.19	0.0	20.0
		15	0	20.21	20.10	20.18	0.0	21.0	18.11	18.13	18.10	0.0	20.0
		1	0	20.12	20.65	20.06	0.0	21.0	18.40	18.05	17.93	0.0	20.0
		1	8	20.42	20.35	20.03	0.0	21.0	18.80	18.47	18.49	0.0	20.0
		1	14	20.22	20.23	20.35	0.0	21.0	18.13	18.47	17.95	0.0	20.0
		8	0	20.21	20.26	20.16	0.0	21.0	18.24	18.18	17.96	0.0	20.0
	256QAM	8	4	20.33	20.38	20.22	0.0	21.0	18.25	18.34	18.17	0.0	20.0
		8	7	20.36	20.32	20.08	0.0	21.0	18.02	18.24	18.16	0.0	20.0
		15	0	20.21	20.15	20.20	0.0	21.0	18.21	18.16	18.03	0.0	20.0
		1	0	18.10	18.13	18.20	1.0	20.0	18.27	18.25	18.33	1.0	19.0
		1	8	18.20	18.03	18.30	1.0	20.0	18.08	18.25	18.65	1.0	19.0
		1	14	18.09	18.46	17.83	1.0	20.0	18.01	18.40	17.84	1.0	19.0
1.4 MHz	QPSK	8	0	18.31	18.30	18.22	1.0	20.0	18.15	18.17	18.12	1.0	19.0
		8	4	18.36	18.31	18.24	1.0	20.0	18.15	18.41	18.28	1.0	19.0
		8	7	18.30	18.25	18.21	1.0	20.0	18.26	18.26	18.05	1.0	19.0
		15	0	18.31	18.22	18.25	1.0	20.0	18.01	18.14	18.16	1.0	19.0
	16QAM	1	0	20.15	20.14	19.99	0.0	21.0	18.08	18.19	18.03	0.0	20.0
		1	3	20.13	20.16	19.91	0.0	21.0	18.12	18.11	18.16	0.0	20.0
		1	5	20.14	20.20	19.95	0.0	21.0	18.09	18.02	17.89	0.0	20.0
		3	0	20.23	20.14	20.00	0.0	21.0	18.10	18.19	18.01	0.0	20.0
		3	1	20.10	20.24	19.97	0.0	21.0	18.22	18.11	18.01	0.0	20.0
		3	3	20.15	20.20	20.00	0.0	21.0	18.10	18.15	18.05	0.0	20.0
	64QAM	6	0	20.12	20.17	20.02	0.0	21.0	18.18	18.21	18.09	0.0	20.0
		1	0	20.42	20.13	20.12	0.0	21.0	18.09	18.15	18.21	0.0	20.0
		1	3	20.53	20.21	20.19	0.0	21.0	18.46	18.41	18.21	0.0	20.0
		1	5	19.86	20.51	20.18	0.0	21.0	18.30	18.12	17.99	0.0	20.0
		3	0	20.04	20.29	20.13	0.0	21.0	18.18	18.14	17.98	0.0	20.0
		3	1	20.35	20.33	20.13	0.0	21.0	18.23	18.25	18.11	0.0	20.0
	256QAM	3	3	20.27	20.20	20.14	0.0	21.0	18.41	18.26	18.03	0.0	20.0
		6	0	20.15	20.24	20.20	0.0	21.0	18.21	18.39	18.12	0.0	20.0
		1	0	20.51	20.33	20.51	0.0	21.0	17.85	18.43	18.22	0.0	20.0
		1	3	20.92	20.25	19.96	0.0	21.0	18.05	18.40	18.37	0.0	20.0
		1	5	20.15	20.11	20.26	0.0	21.0	17.98	18.47	18.25	0.0	20.0
		3	0	20.08	20.17	20.21	0.0	21.0	18.25	18.36	18.08	0.0	20.0
1.4 MHz	64QAM	3	1	20.23	20.36	19.97	0.0	21.0	18.41	18.11	18.06	0.0	20.0
		3	3	20.27	20.21	20.03	0.0	21.0	18.37	18.21	18.10	0.0	20.0
		6	0	20.20	20.08	19.95	0.0	21.0	18.10	18.19	17.91	0.0	20.0
	256QAM	1	0	18.40	18.32	18.09	1.0	20.0	18.19	18.57	18.02	1.0	19.0
		1	3	18.27	18.22	18.27	1.0	20.0	18.30	17.95	18.12	1.0	19.0
		1	5	18.32	18.24	17.90	1.0	20.0	18.03	18.25	18.30	1.0	19.0
	256QAM	3	0	18.30	18.47	18.05	1.0	20.0	18.37	18.33	18.12	1.0	19.0
		3	1	18.22	18.47	18.38	1.0	20.0	18.35	18.26	18.15	1.0	19.0
		3	3	18.18	18.33	18.14	1.0	20.0	18.24	18.17	18.20	1.0	19.0
		6	0	18.38	18.35	18.16	1.0	20.0	18.23	18.14	18.17	1.0	19.0

LTE Band 41 (Main.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)							Maximum Allowed Average Power (dBm)						
				DSI = 0, 3, 4							DSI = 2						
				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		
20 MHz	QPSK	1	0	19.36	18.84	19.15	19.23	19.29	0.0	20.0	23.50	23.09	23.34	23.53	23.40	0.0	25.5
		1	49	19.20	18.94	19.12	19.22	19.33	0.0	20.0	23.52	23.03	23.45	23.50	23.39	0.0	25.5
		1	99	19.05	18.87	19.28	19.44	19.06	0.0	20.0	23.42	23.07	23.44	23.54	23.38	0.0	25.5
		50	0	19.33	18.96	19.20	19.45	19.31	0.0	20.0	22.49	22.14	22.41	22.57	22.42	1.0	24.5
		50	24	19.30	19.04	19.33	19.30	19.28	0.0	20.0	22.53	22.14	22.43	22.53	22.33	1.0	24.5
		50	50	19.24	18.94	19.28	19.43	19.29	0.0	20.0	22.43	22.11	22.41	22.53	22.34	1.0	24.5
		100	0	19.33	19.02	19.21	19.37	19.11	0.0	20.0	22.50	22.18	22.42	22.62	22.39	1.0	24.5
	16QAM	1	0	19.03	18.63	19.08	19.05	18.83	0.0	20.0	23.30	22.72	22.73	22.93	23.08	1.0	24.5
		1	49	18.85	18.70	19.05	19.45	18.93	0.0	20.0	23.16	22.33	22.46	22.65	22.73	1.0	24.5
		1	99	19.24	18.70	18.97	19.23	19.15	0.0	20.0	22.82	22.18	22.82	22.89	22.84	1.0	24.5
		50	0	19.29	18.99	19.03	19.37	19.19	0.0	20.0	21.61	21.22	21.36	21.66	21.53	2.0	23.5
		50	24	19.24	19.04	19.28	19.28	19.16	0.0	20.0	21.53	21.19	21.45	21.52	21.46	2.0	23.5
		50	50	19.35	18.96	19.31	19.32	19.13	0.0	20.0	21.46	21.10	21.43	21.75	21.37	2.0	23.5
		100	0	19.33	19.00	19.25	19.40	19.17	0.0	20.0	21.54	21.22	21.34	21.64	21.39	2.0	23.5
	64QAM	1	0	19.00	18.99	19.11	19.44	19.23	0.0	20.0	22.00	21.41	21.51	21.44	21.66	2.0	23.5
		1	49	18.98	19.09	18.93	19.41	18.91	0.0	20.0	22.44	21.57	21.89	21.76	21.59	2.0	23.5
		1	99	19.10	18.72	18.98	19.24	19.40	0.0	20.0	22.40	21.26	21.82	21.56	21.94	2.0	23.5
		50	0	19.30	18.90	19.20	19.40	19.34	0.0	20.0	21.50	20.18	20.45	20.62	20.59	3.0	22.5
		50	24	19.43	19.00	19.18	19.31	19.32	0.0	20.0	21.40	20.18	20.50	20.60	20.52	3.0	22.5
		50	50	19.31	18.95	19.24	19.41	19.13	0.0	20.0	21.45	20.16	20.43	20.56	20.37	3.0	22.5
		100	0	19.27	18.90	19.20	19.47	19.14	0.0	20.0	21.44	20.19	20.41	20.53	20.45	3.0	22.5
	256QAM	1	0	17.58	17.34	17.37	17.59	17.34	1.0	19.0	18.58	18.60	18.70	18.85	18.90	5.0	20.5
		1	49	18.01	17.26	17.26	17.54	17.10	1.0	19.0	18.90	18.50	18.61	18.83	18.56	5.0	20.5
		1	99	17.53	17.52	17.93	17.97	17.10	1.0	19.0	18.64	18.75	18.82	19.20	18.56	5.0	20.5
		50	0	17.69	17.16	17.40	17.63	17.68	1.0	19.0	18.55	18.23	18.36	18.58	18.46	5.0	20.5
		50	24	17.67	17.37	17.51	17.59	17.48	1.0	19.0	18.50	18.26	18.36	18.51	18.36	5.0	20.5
		50	50	17.50	17.19	17.49	17.75	17.42	1.0	19.0	18.42	18.21	18.34	18.69	18.34	5.0	20.5
		100	0	17.59	17.32	17.57	17.69	17.36	1.0	19.0	18.58	18.29	18.45	18.54	18.39	5.0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)							Measured Pwr (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
15 MHz	QPSK	1	0	19.12	18.84	18.97	19.14	19.15	0.0	20.0	23.22	23.12	23.28	23.54	23.39	0.0	25.5
		1	37	19.07	18.84	18.99	19.22	19.11	0.0	20.0	23.32	23.05	23.32	23.45	23.40	0.0	25.5
		1	74	18.94	18.84	19.03	19.26	19.16	0.0	20.0	23.42	23.03	23.42	23.64	23.28	0.0	25.5
		36	0	19.14	18.87	18.96	19.17	19.14	0.0	20.0	22.15	22.16	22.35	22.62	22.55	1.0	24.5
		36	20	19.14	18.92	18.96	19.18	19.18	0.0	20.0	22.15	22.20	22.38	22.59	22.39	1.0	24.5
		36	39	19.09	18.91	19.04	19.24	19.18	0.0	20.0	22.48	22.16	22.38	22.60	22.36	1.0	24.5
	16QAM	75	0	19.10	18.92	19.03	19.16	19.19	0.0	20.0	22.49	22.20	22.41	22.60	22.38	1.0	24.5
		1	0	19.09	18.80	18.94	19.12	18.99	0.0	20.0	22.44	22.62	22.59	22.63	22.84	1.0	24.5
		1	37	19.03	18.82	18.93	19.13	19.01	0.0	20.0	22.92	22.29	22.56	22.71	22.70	1.0	24.5
		1	74	19.01	18.74	19.02	19.20	19.01	0.0	20.0	22.82	22.57	22.75	22.42	22.98	1.0	24.5
		36	0	19.16	18.85	18.97	19.17	19.13	0.0	20.0	21.51	21.12	21.37	21.53	21.48	2.0	23.5
		36	20	19.17	18.90	18.93	19.19	19.21	0.0	20.0	21.52	21.28	21.44	21.57	21.50	2.0	23.5
	64QAM	36	39	19.10	18.90	19.02	19.26	19.19	0.0	20.0	21.44	21.10	21.39	21.60	21.28	2.0	23.5
		75	0	19.15	18.90	19.03	19.15	19.22	0.0	20.0	21.51	21.24	21.47	21.63	21.41	2.0	23.5
		1	0	19.08	18.89	18.96	19.14	19.17	0.0	20.0	21.85	21.57	21.54	21.80	21.79	2.0	23.5
		1	37	19.00	18.90	18.93	19.12	19.07	0.0	20.0	21.85	21.00	21.38	21.79	21.74	2.0	23.5
		1	74	18.95	18.86	18.98	19.19	19.23	0.0	20.0	21.89	21.49	21.84	21.80	21.93	2.0	23.5
		36	0	19.13	18.89	18.96	19.20	19.13	0.0	20.0	20.52	20.13	20.42	20.64	20.52	3.0	22.5
	256QAM	36	20	19.12	18.92	18.95	19.15	19.21	0.0	20.0	20.49	20.19	20.48	20.59	20.48	3.0	22.5
		36	39	19.07	18.90	19.02	19.27	19.19	0.0	20.0	20.42	20.25	20.45	20.65	20.40	3.0	22.5
		75	0	19.12	18.94	19.08	19.17	19.22	0.0	20.0	20.44	20.17	20.49	20.57	20.35	3.0	22.5
		1	0	17.37	17.03	17.27	17.38	17.30	1.0	19.0	18.88	18.37	18.67	18.78	18.41	5.0	20.5
		1	37	17.32	17.08	17.26	17.42	17.38	1.0	19.0	18.87	18.43	18.72	19.14	18.74	5.0	20.5
		1	74	17.36	17.06	17.29	17.50	17.41	1.0	19.0	18.39	18.27	18.85	19.19	18.28	5.0	20.5
		36	0	17.43	17.17	17.28	17.46	17.43	1.0	19.0	18.44	18.07	18.41	18.50	18.57	5.0	20.5
		36	20	17.43	17.24	17.26	17.48	17.47	1.0	19.0	18.49	18.21	18.37	18.63	18.44	5.0	20.5
		36	39	17.42	17.22	17.32	17.53	17.47	1.0	19.0	18.47	18.15	18.42	18.69	18.43	5.0	20.5
		75	0	17.42	17.24	17.35	17.49	17.48	1.0	19.0	18.58	18.22	18.44	18.56	18.39	5.0	20.5

LTE Band 41 (Main.2) 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	19.24	19.01	19.05	19.34	19.24	0.0	20.0	23.67	23.28	23.40	23.85	23.57	0.0	25.5
		1	25	19.24	19.07	19.16	19.36	19.31	0.0	20.0	23.64	23.26	23.60	23.72	23.69	0.0	25.5
		1	49	19.14	18.97	19.18	19.27	19.25	0.0	20.0	23.65	23.26	23.67	23.66	23.47	0.0	25.5
		25	0	19.28	18.98	19.09	19.30	19.22	0.0	20.0	22.32	22.29	22.56	22.68	22.62	1.0	24.5
		25	12	19.31	19.08	19.15	19.32	19.34	0.0	20.0	22.33	22.33	22.62	22.70	22.58	1.0	24.5
		25	25	19.27	19.04	19.19	19.37	19.32	0.0	20.0	22.54	22.30	22.58	22.74	22.46	1.0	24.5
	16QAM	50	0	19.26	19.06	19.22	19.28	19.34	0.0	20.0	22.74	22.35	22.52	22.71	22.62	1.0	24.5
		1	0	19.07	18.95	19.18	19.23	19.29	0.0	20.0	22.89	22.25	22.95	22.89	22.92	1.0	24.5
		1	25	19.22	19.01	19.34	19.29	19.34	0.0	20.0	23.13	22.89	22.81	22.82	22.77	1.0	24.5
		1	49	19.12	19.02	19.16	19.23	19.24	0.0	20.0	23.03	22.15	23.02	22.88	22.91	1.0	24.5
		25	0	19.29	18.99	19.11	19.33	19.24	0.0	20.0	21.71	21.29	21.50	21.70	21.68	2.0	23.5
		25	12	19.29	19.10	19.12	19.33	19.39	0.0	20.0	21.63	21.43	21.67	21.70	21.64	2.0	23.5
	64QAM	25	25	19.25	19.06	19.17	19.40	19.33	0.0	20.0	21.72	21.37	21.65	21.79	21.61	2.0	23.5
		50	0	19.25	19.04	19.18	19.30	19.30	0.0	20.0	21.66	21.35	21.57	21.72	21.55	2.0	23.5
		1	0	19.31	19.00	19.18	19.31	19.24	0.0	20.0	21.90	21.65	21.74	22.06	22.00	2.0	23.5
		1	25	19.22	19.05	19.32	19.42	19.30	0.0	20.0	22.28	21.41	22.02	22.45	21.73	2.0	23.5
		1	49	19.16	18.94	19.19	19.41	19.22	0.0	20.0	22.05	21.57	21.83	21.92	21.79	2.0	23.5
		25	0	19.28	19.00	19.13	19.35	19.26	0.0	20.0	20.72	20.46	20.50	20.65	20.61	3.0	22.5
	256QAM	25	12	19.28	19.10	19.16	19.38	19.38	0.0	20.0	20.74	20.36	20.55	20.68	20.57	3.0	22.5
		25	25	19.24	19.05	19.22	19.41	19.34	0.0	20.0	20.64	20.34	20.59	20.84	20.57	3.0	22.5
		50	0	19.24	19.07	19.20	19.34	19.33	0.0	20.0	20.66	20.31	20.63	20.69	20.53	3.0	22.5
		1	0	17.50	17.26	17.29	17.56	17.50	1.0	19.0	18.59	18.43	18.20	19.04	18.60	5.0	20.5
		1	25	17.53	17.35	17.34	17.67	17.60	1.0	19.0	18.52	18.26	18.91	18.69	18.71	5.0	20.5
		1	49	17.48	17.28	17.34	17.59	17.56	1.0	19.0	18.54	18.75	18.85	18.76	18.30	5.0	20.5
5 MHz	QPSK	25	0	17.56	17.31	17.42	17.64	17.54	1.0	19.0	18.60	18.32	18.57	18.73	18.63	5.0	20.5
		25	12	17.57	17.41	17.42	17.64	17.64	1.0	19.0	18.66	18.39	18.62	18.75	18.53	5.0	20.5
		25	25	17.53	17.37	17.51	17.70	17.59	1.0	19.0	18.67	18.34	18.51	18.79	18.63	5.0	20.5
		50	0	17.55	17.36	17.52	17.62	17.60	1.0	19.0	18.68	18.38	18.56	18.70	18.62	5.0	20.5
	16QAM	1	0	19.25	18.93	19.07	19.26	19.27	0.0	20.0	23.65	23.28	23.62	23.63	23.51	0.0	25.5
		1	12	19.31	19.04	19.19	19.38	19.29	0.0	20.0	23.82	23.34	23.69	23.63	23.84	0.0	25.5
		1	24	19.18	18.99	19.14	19.29	19.21	0.0	20.0	23.54	23.30	23.58	23.76	23.42	0.0	25.5
		12	0	19.28	19.04	19.08	19.29	19.29	0.0	20.0	22.63	22.20	22.51	22.69	22.58	1.0	24.5
		12	7	19.32	19.07	19.11	19.35	19.31	0.0	20.0	22.67	22.33	22.53	22.78	22.55	1.0	24.5
		12	13	19.28	19.04	19.17	19.38	19.27	0.0	20.0	22.60	22.27	22.56	22.71	22.43	1.0	24.5
	64QAM	25	0	19.28	19.03	19.15	19.32	19.30	0.0	20.0	22.63	22.28	22.57	22.72	22.50	1.0	24.5
		1	0	19.24	19.16	19.15	19.35	19.39	0.0	20.0	23.05	22.58	22.35	23.28	23.01	1.0	24.5
		1	12	19.23	19.20	19.14	19.39	19.53	0.0	20.0	22.85	22.39	22.94	23.04	23.02	1.0	24.5
		1	24	19.19	19.15	19.20	19.39	19.43	0.0	20.0	23.01	22.49	23.02	23.03	22.60	1.0	24.5
		12	0	19.27	19.07	19.09	19.30	19.31	0.0	20.0	21.67	21.33	21.56	21.73	21.62	2.0	23.5
		12	7	19.27	19.11	19.10	19.35	19.34	0.0	20.0	21.58	21.39	21.69	21.82	21.65	2.0	23.5
	256QAM	12	13	19.23	19.07	19.18	19.42	19.32	0.0	20.0	21.59	21.34	21.63	21.83	21.62	2.0	23.5
		25	0	19.26	19.04	19.17	19.30	19.31	0.0	20.0	21.70	21.24	21.55	21.75	21.58	2.0	23.5
		1	0	19.38	19.07	19.16	19.36	19.32	0.0	20.0	22.02	21.67	21.81	21.85	21.77	2.0	23.5
		1	12	19.36	19.16	19.24	19.45	19.39	0.0	20.0	21.76	21.72	21.68	22.24	22.22	2.0	23.5
		1	24	19.25	19.07	19.12	19.40	19.31	0.0	20.0	22.07	21.73	22.20	22.15	21.89	2.0	23.5
		12	0	19.27	19.07	19.11	19.31	19.34	0.0	20.0	20.64	20.24	20.51	20.58	20.60	3.0	22.5
5 MHz	64QAM	12	7	19.28	19.11	19.17	19.35	19.35	0.0	20.0	20.70	20.42	20.61	20.88	20.53	3.0	22.5
		12	13	19.25	19.07	19.22	19.42	19.34	0.0	20.0	20.69	20.37	20.69	20.76	20.56	3.0	22.5
		25	0	19.27	19.08	19.21	19.33	19.31	0.0	20.0	20.61	20.27	20.56	20.85	20.54	3.0	22.5
		1	0	17.50	17.20	17.43	17.60	17.51	1.0	19.0	18.85	18.48	18.86	19.00	18.89	5.0	20.5
		1	12	17.49	17.32	17.56	17.73	17.58	1.0	19.0	18.64	18.61	18.97	19.18	18.59	5.0	20.5
		1	24	17.46	17.22	17.51	17.67	17.54	1.0	19.0	19.01	18.55	18.70	18.94	18.21	5.0	20.5
	256QAM	12	0	17.56	17.38	17.44	17.64	17.63	1.0	19.0	18.67	18.32	18.57	18.49	18.71	5.0	20.5
		12	7	17.59	17.41	17.48	17.67	17.67	1.0	19.0	18.73	18.45	18.58	18.84	18.60	5.0	20.5
		12	13	17.54	17.38	17.53	17.68	17.64	1.0	19.0	18.71	18.35	18.65	18.85	18.69	5.0	20.5
		25	0	17.53	17.39	17.52	17.63	17.61	1.0	19.0	18.66	18.23	18.46	18.63	18.60	5.0	20.5

LTE Band 41 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						
				DSI = 0, 2, 3, 4						
				Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	19.26	19.23	19.28	19.04	19.21	0.0	20.0
		1	49	19.22	19.16	19.27	19.06	19.25	0.0	20.0
		1	99	19.12	18.96	19.16	19.04	19.11	0.0	20.0
		50	0	19.31	19.21	19.38	19.16	19.31	0.0	20.0
		50	24	19.30	19.21	19.29	19.31	19.32	0.0	20.0
		50	50	19.31	19.10	19.24	19.31	19.33	0.0	20.0
		100	0	19.32	19.13	19.31	19.30	19.46	0.0	20.0
	16QAM	1	0	19.33	19.15	19.15	19.19	19.15	0.0	20.0
		1	49	19.22	19.48	18.96	19.16	19.19	0.0	20.0
		1	99	19.21	19.13	18.70	19.29	19.44	0.0	20.0
		50	0	19.44	19.46	19.07	19.50	19.41	0.0	20.0
		50	24	19.34	19.38	19.07	19.50	19.47	0.0	20.0
		50	50	19.38	19.21	19.01	19.54	19.50	0.0	20.0
		100	0	19.41	19.48	19.10	19.50	19.39	0.0	20.0
	64QAM	1	0	19.12	19.35	19.03	19.22	19.30	0.0	20.0
		1	49	19.23	19.11	19.36	19.45	19.11	0.0	20.0
		1	99	19.01	19.27	18.92	19.54	19.49	0.0	20.0
		50	0	19.47	19.44	19.05	19.44	19.27	0.0	20.0
		50	24	19.34	19.39	18.96	19.62	19.44	0.0	20.0
		50	50	19.40	19.22	19.12	19.61	19.37	0.0	20.0
		100	0	19.30	19.49	18.96	19.55	19.43	0.0	20.0
	256QAM	1	0	17.57	17.79	17.55	17.87	17.55	1.0	19.0
		1	49	17.63	17.31	17.03	17.73	17.53	1.0	19.0
		1	99	17.41	17.83	17.29	17.99	17.31	1.0	19.0
		50	0	17.81	17.67	17.33	17.66	17.67	1.0	19.0
		50	24	17.67	17.73	17.35	17.76	17.69	1.0	19.0
		50	50	17.72	17.68	17.38	17.94	17.74	1.0	19.0
		100	0	17.65	17.76	17.28	17.85	17.64	1.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
15 MHz	QPSK	1	0	19.54	19.26	19.17	19.34	19.35	0.0	20.0
		1	37	19.50	19.23	19.17	19.33	19.36	0.0	20.0
		1	74	19.46	19.26	19.29	19.43	19.37	0.0	20.0
		36	0	19.58	19.31	19.22	19.43	19.39	0.0	20.0
		36	20	19.52	19.32	19.21	19.47	19.40	0.0	20.0
		36	39	19.50	19.23	19.27	19.48	19.31	0.0	20.0
		75	0	19.52	19.30	19.24	19.44	19.40	0.0	20.0
	16QAM	1	0	19.47	19.27	19.15	19.18	19.35	0.0	20.0
		1	37	19.48	19.23	19.17	19.28	19.36	0.0	20.0
		1	74	19.33	19.25	19.29	19.35	19.39	0.0	20.0
		36	0	19.61	19.32	19.23	19.45	19.38	0.0	20.0
		36	20	19.53	19.32	19.26	19.45	19.39	0.0	20.0
		36	39	19.51	19.23	19.27	19.48	19.30	0.0	20.0
		75	0	19.51	19.34	19.26	19.46	19.41	0.0	20.0
	64QAM	1	0	19.51	19.36	19.17	19.42	19.31	0.0	20.0
		1	37	19.58	19.26	19.30	19.31	19.34	0.0	20.0
		1	74	19.50	19.27	19.34	19.50	19.29	0.0	20.0
		36	0	19.61	19.38	19.27	19.41	19.39	0.0	20.0
		36	20	19.55	19.39	19.23	19.47	19.40	0.0	20.0
		36	39	19.51	19.31	19.27	19.46	19.33	0.0	20.0
		75	0	19.57	19.38	19.26	19.47	19.44	0.0	20.0
	256QAM	1	0	17.92	17.54	17.29	17.67	17.61	1.0	19.0
		1	37	17.85	17.55	17.35	17.70	17.63	1.0	19.0
		1	74	17.80	17.59	17.42	17.70	17.56	1.0	19.0
		36	0	17.92	17.66	17.56	17.70	17.67	1.0	19.0
		36	20	17.82	17.65	17.57	17.75	17.69	1.0	19.0
		36	39	17.86	17.58	17.58	17.74	17.64	1.0	19.0
		75	0	17.84	17.66	17.58	17.74	17.68	1.0	19.0

LTE Band 41 (Sub.2) Measured Results(Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
10 MHz	QPSK	1	0	19.69	19.36	19.29	19.51	19.41	0.0	20.0
		1	25	19.70	19.45	19.34	19.55	19.53	0.0	20.0
		1	49	19.60	19.43	19.33	19.52	19.47	0.0	20.0
		25	0	19.71	19.44	19.35	19.57	19.48	0.0	20.0
		25	12	19.71	19.45	19.39	19.61	19.59	0.0	20.0
		25	25	19.64	19.38	19.39	19.61	19.47	0.0	20.0
		50	0	19.66	19.42	19.38	19.59	19.52	0.0	20.0
	16QAM	1	0	19.56	19.48	19.39	19.51	19.51	0.0	20.0
		1	25	19.59	19.55	19.50	19.49	19.49	0.0	20.0
		1	49	19.61	19.46	19.43	19.48	19.52	0.0	20.0
		25	0	19.75	19.43	19.41	19.62	19.53	0.0	20.0
		25	12	19.72	19.55	19.44	19.65	19.56	0.0	20.0
		25	25	19.65	19.44	19.46	19.61	19.47	0.0	20.0
		50	0	19.65	19.48	19.44	19.60	19.55	0.0	20.0
	64QAM	1	0	19.71	19.43	19.45	19.50	19.48	0.0	20.0
		1	25	19.75	19.49	19.46	19.58	19.52	0.0	20.0
		1	49	19.71	19.44	19.45	19.62	19.51	0.0	20.0
		25	0	19.72	19.51	19.41	19.63	19.50	0.0	20.0
		25	12	19.76	19.55	19.49	19.64	19.56	0.0	20.0
		25	25	19.66	19.46	19.46	19.63	19.45	0.0	20.0
		50	0	19.68	19.54	19.43	19.59	19.58	0.0	20.0
	256QAM	1	0	17.96	17.67	17.50	17.76	17.80	1.0	19.0
		1	25	17.95	17.84	17.69	17.78	17.77	1.0	19.0
		1	49	17.86	17.72	17.73	17.84	17.62	1.0	19.0
		25	0	18.04	17.79	17.74	17.89	17.82	1.0	19.0
		25	12	18.09	17.85	17.74	17.91	17.83	1.0	19.0
		25	25	17.95	17.77	17.73	17.91	17.74	1.0	19.0
		50	0	17.99	17.77	17.67	17.95	17.79	1.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	19.70	19.38	19.34	19.46	19.43	0.0	20.0
		1	12	19.68	19.50	19.40	19.53	19.51	0.0	20.0
		1	24	19.61	19.39	19.32	19.46	19.40	0.0	20.0
		12	0	19.73	19.44	19.36	19.52	19.46	0.0	20.0
		12	7	19.75	19.45	19.40	19.62	19.53	0.0	20.0
		12	13	19.64	19.37	19.39	19.56	19.52	0.0	20.0
		25	0	19.73	19.44	19.38	19.55	19.49	0.0	20.0
	16QAM	1	0	19.68	19.51	19.31	19.51	19.51	0.0	20.0
		1	12	19.79	19.62	19.47	19.63	19.68	0.0	20.0
		1	24	19.68	19.60	19.36	19.51	19.58	0.0	20.0
		12	0	19.72	19.49	19.33	19.49	19.50	0.0	20.0
		12	7	19.78	19.53	19.40	19.55	19.52	0.0	20.0
		12	13	19.65	19.43	19.41	19.49	19.53	0.0	20.0
		25	0	19.72	19.48	19.39	19.59	19.52	0.0	20.0
	64QAM	1	0	19.78	19.44	19.42	19.59	19.49	0.0	20.0
		1	12	19.81	19.50	19.51	19.65	19.62	0.0	20.0
		1	24	19.66	19.45	19.37	19.66	19.44	0.0	20.0
		12	0	19.71	19.49	19.38	19.60	19.52	0.0	20.0
		12	7	19.74	19.49	19.45	19.63	19.55	0.0	20.0
		12	13	19.62	19.41	19.41	19.63	19.51	0.0	20.0
		25	0	19.74	19.48	19.44	19.60	19.53	0.0	20.0
	256QAM	1	0	17.92	17.62	17.55	17.83	17.70	1.0	19.0
		1	12	18.03	17.77	17.71	17.97	17.70	1.0	19.0
		1	24	17.91	17.63	17.66	17.83	17.50	1.0	19.0
		12	0	18.01	17.75	17.68	17.89	17.77	1.0	19.0
		12	7	18.01	17.82	17.76	17.91	17.82	1.0	19.0
		12	13	17.93	17.72	17.69	17.88	17.78	1.0	19.0
		25	0	18.00	17.79	17.70	17.89	17.79	1.0	19.0

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

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

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

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

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

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

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_IRB_Left	Edge_IRB_Right	Outer_Full	Inner_Full	Inner_IRB_Left	Inner_IRB_Right
5MHz	15	DFT-s	2②0	2②23	1②0	1②24	25②0	12②6	1②1	1②23
		CP	2②0	2②23	1②0	1②24	25②0	13②6	1②1	1②23
	30	DFT-s	2②0	2②9	1②0	1②10	10②0	5②2 ¹	1②1	1②9
		CP	2②0	2②9	1②0	1②10	11②0	5②2 ¹	1②1	1②9
	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	2②0	2②50	1②0	1②51	50②0	25②12	1②1	1②50
		CP	2②0	2②50	1②0	1②51	52②0	26②13	1②1	1②50
	30	DFT-s	2②0	2②22	1②0	1②23	24②0	12②6	1②1	1②22
		CP	2②0	2②22	1②0	1②23	24②0	12②6	1②1	1②22
	60	DFT-s	2②0	2②9	1②0	1②10	10②0	5②2 ¹	1②1	1②9
		CP	2②0	2②9	1②0	1②10	11②0	5②2 ¹	1②1	1②9
15MHz	15	DFT-s	2②0	2②77	1②0	1②78	75②0	36②18	1②1	1②77
		CP	2②0	2②77	1②0	1②78	79②0	39②19 ¹	1②1	1②77
	30	DFT-s	2②0	2②36	1②0	1②37	36②0	18②9	1②1	1②36
		CP	2②0	2②36	1②0	1②37	38②0	19②9	1②1	1②36
	60	DFT-s	2②0	2②16	1②0	1②17	16②0	9②4	1②1	1②16
		CP	2②0	2②16	1②0	1②17	18②0	9②4	1②1	1②16
20MHz	15	DFT-s	2②0	2②104	1②0	1②105	100②0	50②25	1②1	1②104
		CP	2②0	2②104	1②0	1②105	105②0	53②26	1②1	1②104
	30	DFT-s	2②0	2②49	1②0	1②50	50②0	25②12	1②1	1②49
		CP	2②0	2②49	1②0	1②50	51②0	25②12 ¹	1②1	1②49
	60	DFT-s	2②0	2②22	1②0	1②23	24②0	12②6	1②1	1②22
		CP	2②0	2②22	1②0	1②23	24②0	12②6	1②1	1②22
25MHz	15	DFT-s	2②0	2②131	1②0	1②132	128②0	64②32	1②1	1②131
		CP	2②0	2②131	1②0	1②132	133②0	67②33	1②1	1②131
	30	DFT-s	2②0	2②63	1②0	1②64	64②0	32②16	1②1	1②63
		CP	2②0	2②63	1②0	1②64	65②0	33②16	1②1	1②63
	60	DFT-s	2②0	2②29	1②0	1②30	30②0	15②7 ¹	1②1	1②29
		CP	2②0	2②29	1②0	1②30	31②0	15②7 ¹	1②1	1②29
30MHz	15	DFT-s	2②0	2②158	1②0	1②159	160②0	80②40	1②1	1②158
		CP	2②0	2②158	1②0	1②159	160②0	80②40	1②1	1②158
	30	DFT-s	2②0	2②76	1②0	1②77	75②0	36②18	1②1	1②76
		CP	2②0	2②76	1②0	1②77	78②0	39②19	1②1	1②76
	60	DFT-s	2②0	2②36	1②0	1②37	36②0	18②9	1②1	1②36
		CP	2②0	2②36	1②0	1②37	38②0	19②9	1②1	1②36
40MHz	15	DFT-s	2②0	2②214	1②0	1②215	216②0	108②54	1②1	1②214
		CP	2②0	2②214	1②0	1②215	216②0	108②54	1②1	1②214
	30	DFT-s	2②0	2②104	1②0	1②105	100②0	50②25	1②1	1②104
		CP	2②0	2②104	1②0	1②105	105②0	53②26	1②1	1②104
	60	DFT-s	2②0	2②49	1②0	1②50	50②0	25②12	1②1	1②49
		CP	2②0	2②49	1②0	1②50	51②0	25②12 ¹	1②1	1②49
50MHz	15	DFT-s	2②0	2②268	1②0	1②269	270②0	135②67	1②1	1②268
		CP	2②0	2②268	1②0	1②269	270②0	135②67	1②1	1②268
	30	DFT-s	2②0	2②131	1②0	1②132	128②0	64②32	1②1	1②131
		CP	2②0	2②131	1②0	1②132	133②0	67②33	1②1	1②131
	60	DFT-s	2②0	2②63	1②0	1②64	64②0	32②16	1②1	1②63
		CP	2②0	2②63	1②0	1②64	65②0	33②16	1②1	1②63
60MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2②0	2②160	1②0	1②161	162②0	81②40	1②1	1②160
		CP	2②0	2②160	1②0	1②161	162②0	81②40	1②1	1②160
	60	DFT-s	2②0	2②77	1②0	1②78	75②0	36②18	1②1	1②77
		CP	2②0	2②77	1②0	1②78	79②0	39②19 ¹	1②1	1②77
80MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90MHz	30	DFT-s	2②0	2②215	1②0	1②216	216②0	108②54	1②1	1②215
		CP	2②0	2②215	1②0	1②216	217②0	109②54	1②1	1②215
	60	DFT-s	2②0	2②105	1②0	1②106	100②0	50②25	1②1	1②105
		CP	2②0	2②105	1②0	1②106	107②0	53②26 ¹	1②1	1②105
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2②0	2②243	1②0	1②244	240②0	120②60	1②1	1②243
		CP	2②0	2②243	1②0	1②244	245②0	123②61	1②1	1②243
	60	DFT-s	2②0	2②119	1②0	1②120	120②0	60②30	1②1	1②119
		CP	2②0	2②119	1②0	1②120	121②0	61②30	1②1	1②119
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2②0	2②271	1②0	1②272	270②0	135②67	1②1	1②271
		CP	2②0	2②271	1②0	1②272	273②0	137②68	1②1	1②271
	60	DFT-s	2②0	2②133	1②0	1②134	135②0	64②32	1②1	1②133
		CP	2②0	2②133	1②0	1②134	135②0	67②33 ¹	1②1	1②133

Note 1: The allocated RB number Lo_{in} is $\text{ceil}((N_{\text{RB}}/2) - 1)$ in order to meet inner RB allocation definition ($RB_{\text{start},\text{low}} \leq RB_{\text{start}} \leq RB_{\text{start},\text{high}}$) described in subclause 6.2.2 of TS 38.101-1 [2].

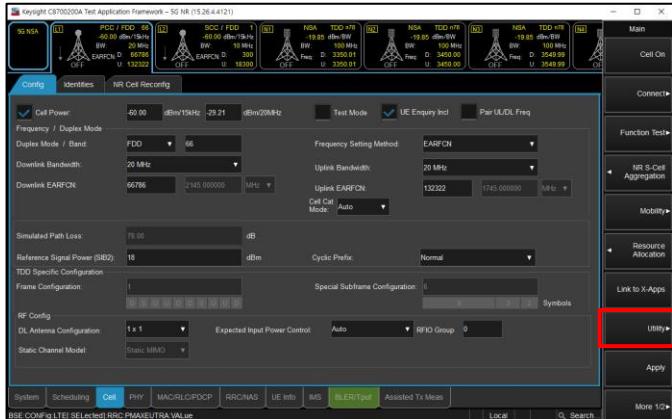
SAR test exclusion can be applied for testing overlapping NR bands as follows:

- The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
 - The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
- NR Band n78 (3450 – 3550 MHz & 3700 - 3800) is covered by NR Band n77 (3450 – 3550 MHz & 3700 - 3980)

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



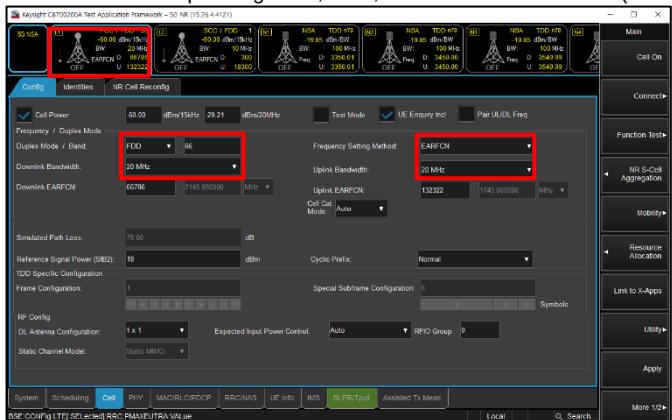
(Figure 1-1)



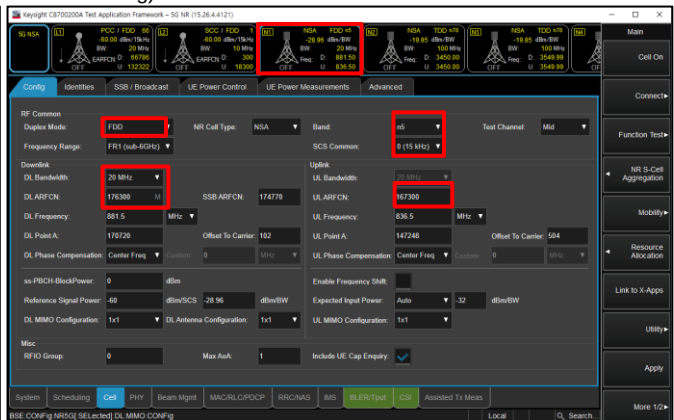
(Figure 1-2)

NSA Mode

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

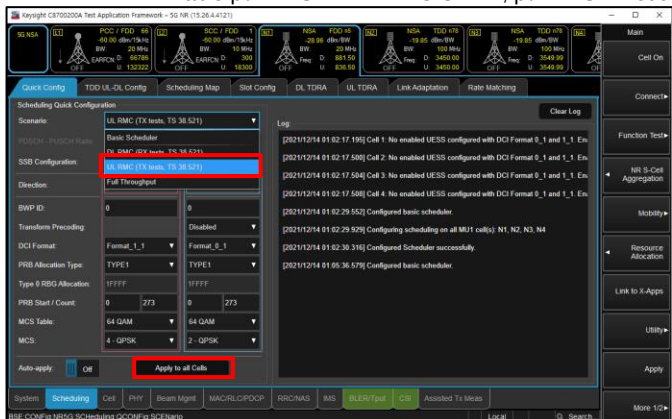


(Figure 2-1)

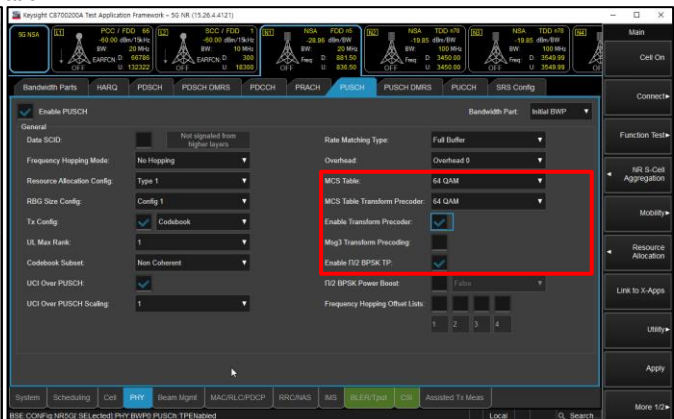


(Figure 2-2)

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

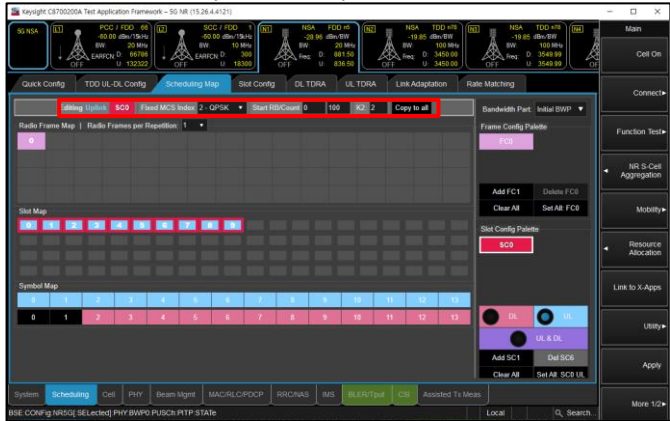


(Figure 2-3)

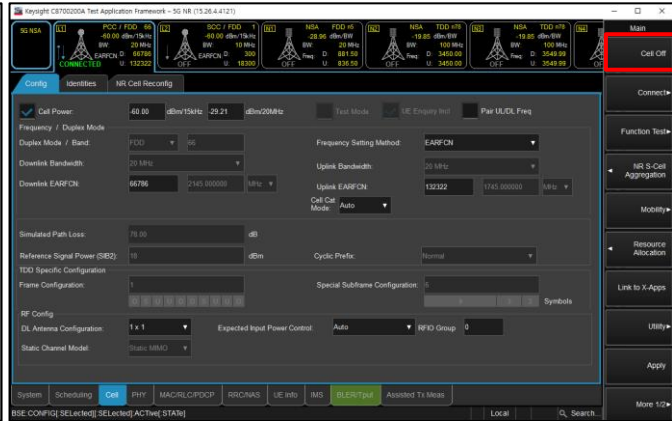


(Figure 2-4)

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

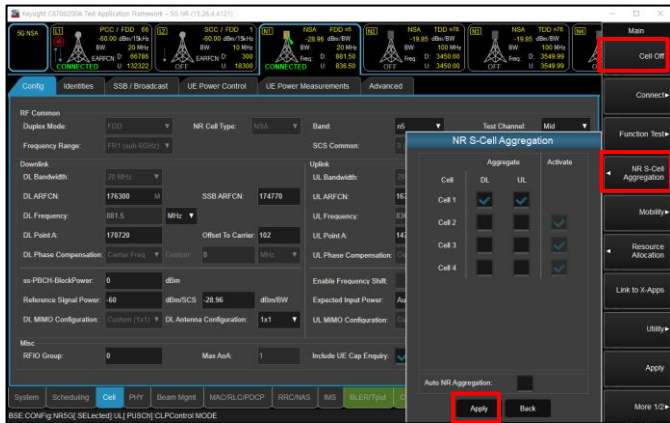


(Figure 2-5)

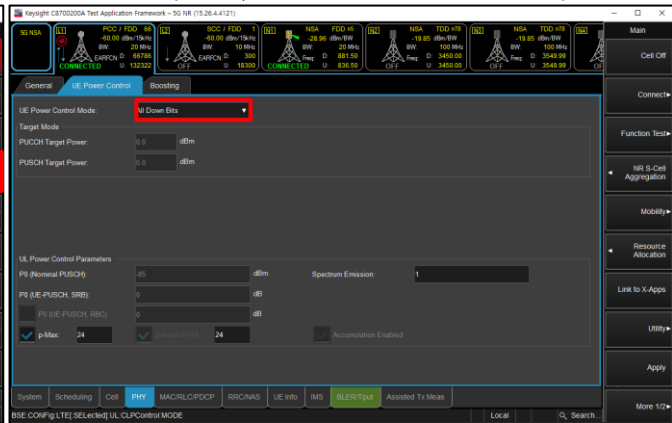


(Figure 2-6)

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

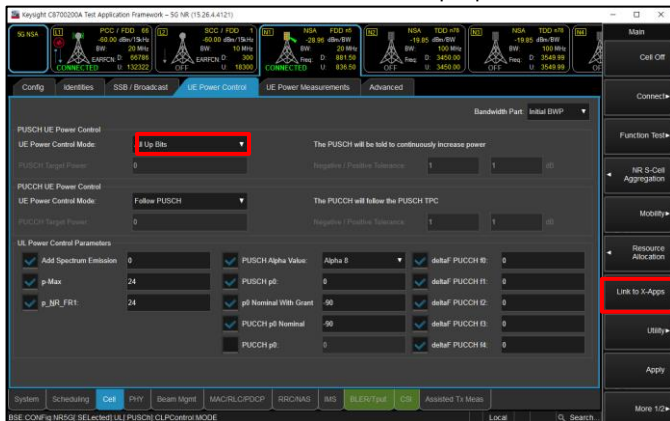


(Figure 2-7)

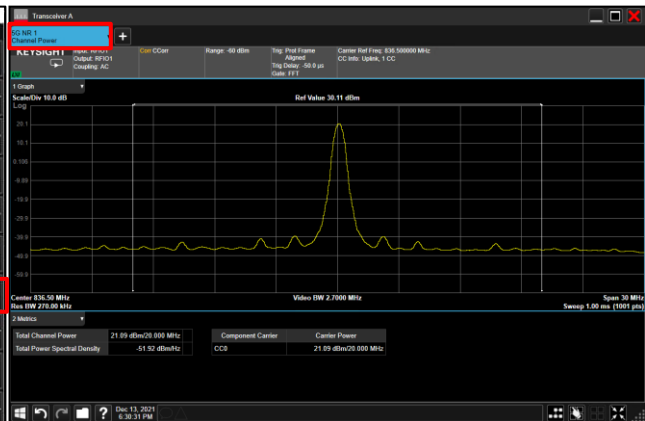


(Figure 2-8)

- 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”
- Select “Channel Power” for NR output power



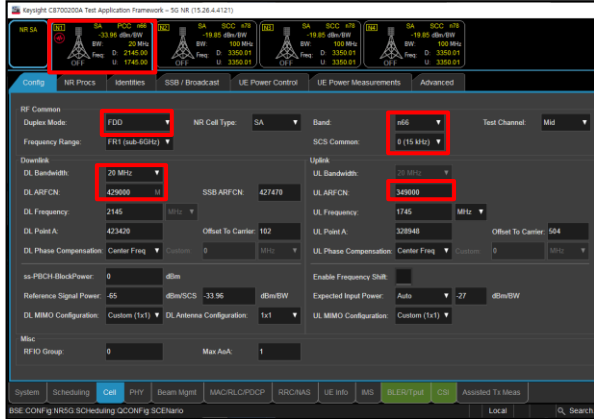
(Figure 2-9)



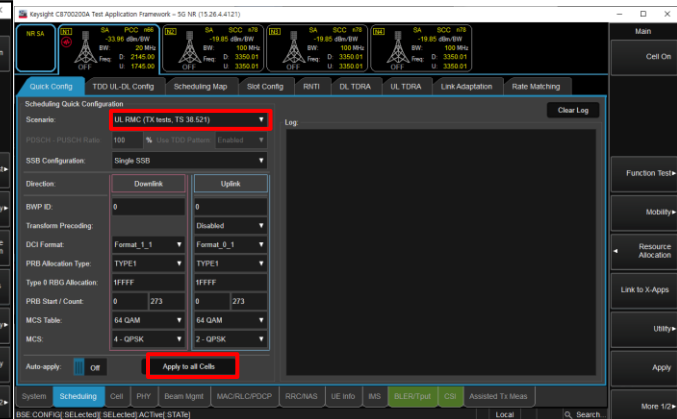
(Figure 2-10)

SA Mode

- Select operating band, SCS, BW and Channel for NR (NR -> Cell -> Config)
- Select "UL RMC (TX tests, TS 38.521)" for maximum power RB scheduling (NR -> Scheduling -> Quick Config)

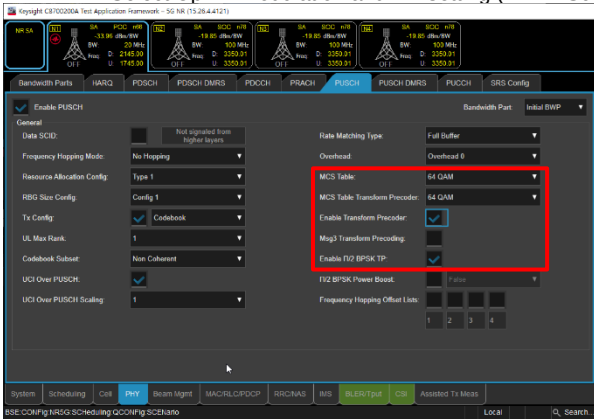


(Figure 3-1)

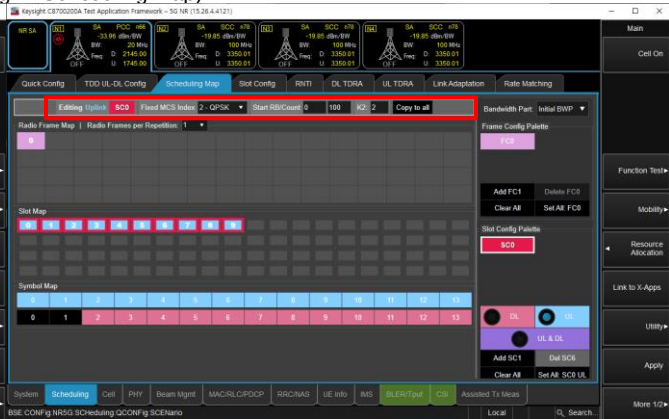


(Figure 3-2)

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

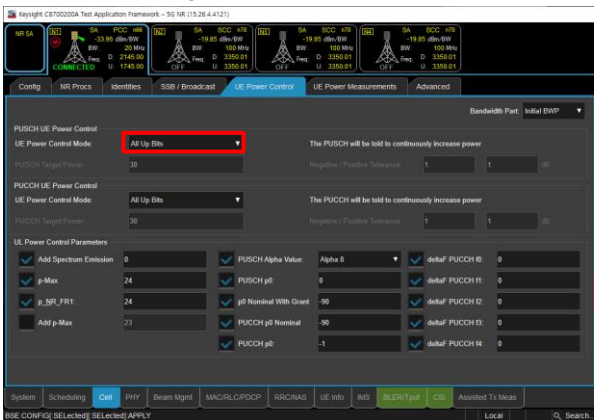


(Figure 3-3)



(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"
- Select "Channel Power"



(Figure 3-5)



(Figure 3-6)

NR Band n5 (Main 1) Measured Results

BW (MHz)	Modulation n	Mode	RB Allocatio n	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0, 3, 4					DSI = 2				
					Measured Pwr (dBm)					Measured Pwr (dBm)				
					166800 834.00 MHz	167300 836.50 MHz	167800 839.00 MHz	MPR	Tune- up Limit	166800 834.00 MHz	167300 836.50 MHz	167800 839.00 MHz	MPR	Tune- up Limit
20 MHz	DFT-s- OFDM	$\pi/2$ BPSK	1	1		24.23		0.0	24.5		25.26		0.0	25.8
			1	52		24.08		0.0	24.5		25.15		0.0	25.8
			1	104		24.11		0.0	24.5		25.10		0.0	25.8
			50	0		23.24		0.5	24.0		24.15		0.5	25.3
			50	28		24.06		0.0	24.5		25.09		0.0	25.8
			50	56		23.16		0.5	24.0		24.03		0.5	25.3
			100	0		23.19		0.5	24.0		24.16		0.5	25.3
		QPSK	1	1		24.36		0.0	24.5		25.28		0.0	25.8
			1	52		24.12		0.0	24.5		25.13		0.0	25.8
			1	104		24.17		0.0	24.5		25.10		0.0	25.8
			50	0		23.25		1.0	23.5		24.20		1.0	24.8
			50	28		24.21		0.0	24.5		25.11		0.0	25.8
			50	56		23.12		1.0	23.5		24.02		1.0	24.8
			100	0		23.26		1.0	23.5		24.15		1.0	24.8
		16QAM	1	1		23.27		1.0	23.5		24.16		1.0	24.8
			1	52		23.13		1.0	23.5		23.99		1.0	24.8
			1	104		23.16		1.0	23.5		23.99		1.0	24.8
		64QAM	1	1		21.98		2.5	22.0		22.91		2.5	23.3
		256QAM	1	1		19.38		4.5	20.0		20.32		4.5	21.3
	CP-OFDM	QPSK	1	1		22.82		1.5	23.0		23.73		1.5	24.3
BW (MHz)	Modulation n	Mode	RB Allocatio n	RB offset	166300 831.50 MHz	167300 836.50 MHz	168300 841.50 MHz	MPR	Tune- up Limit	166300 831.50 MHz	167300 836.50 MHz	168300 841.50 MHz	MPR	Tune- up Limit
15 MHz	DFT-s- OFDM	$\pi/2$ BPSK	1	1		24.32		0.0	24.5		24.97		0.0	25.8
			1	39		24.16		0.0	24.5		24.87		0.0	25.8
			1	77		24.07		0.0	24.5		24.95		0.0	25.8
			36	0		23.30		0.5	24.0		23.90		0.5	25.3
			36	21		24.15		0.0	24.5		24.84		0.0	25.8
			36	43		23.19		0.5	24.0		23.83		0.5	25.3
			75	0		23.26		0.5	24.0		23.87		0.5	25.3
		QPSK	1	1		24.35		0.0	24.5		25.02		0.0	25.8
			1	39		24.12		0.0	24.5		24.89		0.0	25.8
			1	77		24.10		0.0	24.5		24.95		0.0	25.8
			36	0		23.34		1.0	23.5		23.90		1.0	24.8
			36	21		24.19		0.0	24.5		24.87		0.0	25.8
			36	43		23.23		1.0	23.5		23.81		1.0	24.8
			75	0		23.23		1.0	23.5		23.85		1.0	24.8
		16QAM	1	1		23.33		1.0	23.5		23.89		1.0	24.8
			1	39		23.13		1.0	23.5		23.77		1.0	24.8
			1	77		23.08		1.0	23.5		23.86		1.0	24.8
		64QAM	1	1		21.90		2.5	22.0		22.63		2.5	23.3
		256QAM	1	1		19.44		4.5	20.0		20.04		4.5	21.3
	CP-OFDM	QPSK	1	1		22.92		1.5	23.0		23.48		1.5	24.3

NR Band n5 (Main 1) 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
					165800	167300	168800			165800	167300	168800		
					829.00 MHz	836.50 MHz	844.00 MHz			829.00 MHz	836.50 MHz	844.00 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1		24.04		0.0	24.5		24.78		0.0	25.8
			1	25		23.99		0.0	24.5		24.72		0.0	25.8
			1	50		23.98		0.0	24.5		24.74		0.0	25.8
			25	0		23.14		0.5	24.0		23.81		0.5	25.3
			25	13		24.06		0.0	24.5		24.81		0.0	25.8
			25	27		23.08		0.5	24.0		23.78		0.5	25.3
			50	0		23.10		0.5	24.0		23.78		0.5	25.3
		QPSK	1	1		24.02		0.0	24.5		24.78		0.0	25.8
			1	25		23.98		0.0	24.5		24.78		0.0	25.8
			1	50		23.98		0.0	24.5		24.74		0.0	25.8
			25	0		23.13		1.0	23.5		23.78		1.0	24.8
			25	13		24.04		0.0	24.5		24.80		0.0	25.8
			25	27		23.08		1.0	23.5		23.80		1.0	24.8
			50	0		23.10		1.0	23.5		23.78		1.0	24.8
		16QAM	1	1		23.07		1.0	23.5		23.72		1.0	24.8
			1	25		22.99		1.0	23.5		23.68		1.0	24.8
			1	50		22.98		1.0	23.5		23.64		1.0	24.8
		64QAM	1	1		21.79		2.5	22.0		22.50		2.5	23.3
		256QAM	1	1		19.13		4.5	20.0		19.87		4.5	21.3
	CP-OFDM	QPSK	1	1		22.62		1.5	23.0		23.26		1.5	24.3
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune- up Limit	Measured Pwr (dBm)			MPR	Tune- up Limit
					165300	167300	169300			165300	167300	169300		
					826.50 MHz	836.50 MHz	846.50 MHz			826.50 MHz	836.50 MHz	846.50 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.26	24.03	24.14	0.0	24.5	24.99	24.83	24.84	0.0	25.8
			1	12	24.14	23.97	24.08	0.0	24.5	24.96	24.76	24.74	0.0	25.8
			1	23	24.17	24.03	24.25	0.0	24.5	24.96	24.76	24.91	0.0	25.8
			12	0	23.30	23.15	23.18	0.5	24.0	23.96	23.77	23.82	0.5	25.3
			12	6	24.14	23.97	24.08	0.0	24.5	24.95	24.68	24.75	0.0	25.8
			12	13	23.27	23.11	23.29	0.5	24.0	24.95	23.75	23.82	0.5	25.3
			25	0	23.29	23.14	23.22	0.5	24.0	23.97	23.76	23.77	0.5	25.3
		QPSK	1	1	24.29	24.11	24.15	0.0	24.5	25.01	24.81	24.81	0.0	25.8
			1	12	24.16	23.97	24.05	0.0	24.5	25.00	24.74	24.78	0.0	25.8
			1	23	24.12	24.03	24.23	0.0	24.5	24.98	24.74	24.89	0.0	25.8
			12	0	23.34	23.15	23.17	1.0	23.5	24.01	23.76	23.79	1.0	24.8
			12	6	24.20	23.99	24.07	0.0	24.5	24.95	24.68	24.73	0.0	25.8
			12	13	23.24	23.14	23.28	1.0	23.5	24.45	23.76	23.84	1.0	24.8
			25	0	23.25	23.13	23.22	1.0	23.5	24.02	23.75	23.75	1.0	24.8
		16QAM	1	1	23.31	23.10	23.21	1.0	23.5	23.97	23.73	23.79	1.0	24.8
			1	12	23.20	22.99	23.08	1.0	23.5	23.92	23.66	23.70	1.0	24.8
			1	23	23.23	23.05	23.24	1.0	23.5	23.90	23.69	23.81	1.0	24.8
		64QAM	1	1	22.00	21.81	21.89	2.5	22.0	22.72	22.50	22.52	2.5	23.3
		256QAM	1	1	19.35	19.19	19.25	4.5	20.0	20.06	19.86	19.86	4.5	21.3
	CP-OFDM	QPSK	1	1	22.85	22.64	22.75	1.5	23.0	23.54	23.23	23.30	1.5	24.3

NR Band n66 (Main.2) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
					DSI = 0,1,3,4					DSI = 2				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					346000 1730.00 MHz	349000 1745.00 MHz	352000 1760.00 MHz			346000 1730.00 MHz	349000 1745.00 MHz	352000 1760.00 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1		18.82		0.0	20.0		23.67		0.0	25.0
			1	107		18.96		0.0	20.0		23.61		0.0	25.0
			1	214		18.75		0.0	20.0		23.52		0.0	25.0
			108	0		18.99		0.0	20.0		22.73		0.5	24.5
			108	54		18.91		0.0	20.0		23.61		0.0	25.0
			108	108		18.89		0.0	20.0		22.59		0.5	24.5
			216	0		18.94		0.0	20.0		22.59		0.5	24.5
		QPSK	1	1		18.85		0.0	20.0		23.66		0.0	25.0
			1	107		19.01		0.0	20.0		23.67		0.0	25.0
			1	214		18.82		0.0	20.0		23.54		0.0	25.0
			108	0		18.94		0.0	20.0		22.69		1.0	24.0
			108	54		19.02		0.0	20.0		23.64		0.0	25.0
			108	108		18.92		0.0	20.0		22.61		1.0	24.0
			216	0		18.98		0.0	20.0		22.63		1.0	24.0
		16QAM	1	1		18.80		0.0	20.0		22.67		1.0	24.0
			1	107		18.96		0.0	20.0		22.58		1.0	24.0
			1	214		18.75		0.0	20.0		22.50		1.0	24.0
		64QAM	1	1		19.02		0.0	20.0		21.32		2.5	22.5
		256QAM	1	1		18.38		0.0	20.0		18.68		4.5	20.5
	CP-OFDM	QPSK	1	1		18.92		0.0	20.0		22.15		1.5	23.5
35 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1		19.21		0.0	20.0		23.70		0.0	25.0
			1	93		19.21		0.0	20.0		23.62		0.0	25.0
			1	186		19.15		0.0	20.0		23.60		0.0	25.0
			90	0		19.23		0.0	20.0		22.73		0.5	24.5
			90	49		19.16		0.0	20.0		23.62		0.0	25.0
			90	98		19.14		0.0	20.0		22.55		0.5	24.5
			180	0		19.24		0.0	20.0		22.64		0.5	24.5
		QPSK	1	1		19.21		0.0	20.0		23.70		0.0	25.0
			1	93		19.22		0.0	20.0		23.66		0.0	25.0
			1	186		19.19		0.0	20.0		23.67		0.0	25.0
			90	0		19.26		0.0	20.0		22.74		1.0	24.0
			90	49		19.21		0.0	20.0		23.65		0.0	25.0
			90	98		19.11		0.0	20.0		22.58		1.0	24.0
			180	0		19.22		0.0	20.0		22.69		1.0	24.0
		16QAM	1	1		19.20		0.0	20.0		22.71		1.0	24.0
			1	93		19.17		0.0	20.0		22.60		1.0	24.0
			1	186		19.12		0.0	20.0		22.62		1.0	24.0
		64QAM	1	1		19.37		0.0	20.0		21.30		2.5	22.5
		256QAM	1	1		18.71		0.0	20.0		18.69		4.5	20.5
	CP-OFDM	QPSK	1	1		19.31		0.0	20.0		22.25		1.5	23.5

NR Band n66 (Main.2) 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	$\pi/2$ BPSK	1	1		19.15		0.0	20.0		23.69		0.0	25.0
			1	79		19.20		0.0	20.0		23.71		0.0	25.0
			1	158		19.07		0.0	20.0		23.54		0.0	25.0
			80	0		19.27		0.0	20.0		22.77		0.5	24.5
			80	40		19.19		0.0	20.0		23.64		0.0	25.0
			80	80		19.16		0.0	20.0		22.62		0.5	24.5
			160	0		19.20		0.0	20.0		22.70		0.5	24.5
		QPSK	1	1		19.16		0.0	20.0		23.70		0.0	25.0
			1	79		19.24		0.0	20.0		23.68		0.0	25.0
			1	158		19.03		0.0	20.0		23.58		0.0	25.0
			80	0		19.24		0.0	20.0		22.74		1.0	24.0
			80	40		19.20		0.0	20.0		23.66		0.0	25.0
			80	80		19.18		0.0	20.0		22.65		1.0	24.0
			160	0		19.20		0.0	20.0		22.67		1.0	24.0
		16QAM	1	1		19.10		0.0	20.0		22.72		1.0	24.0
			1	79		19.21		0.0	20.0		22.59		1.0	24.0
			1	158		18.97		0.0	20.0		22.48		1.0	24.0
		64QAM	1	1		19.30		0.0	20.0		21.26		2.5	22.5
		256QAM	1	1		18.69		0.0	20.0		18.71		4.5	20.5
	CP-OFDM	QPSK	1	1		19.29		0.0	20.0		22.18		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
					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	$\pi/2$ BPSK	1	1		19.26		0.0	20.0		23.72		0.0	25.0
			1	66		19.27		0.0	20.0		23.72		0.0	25.0
			1	131		19.25		0.0	20.0		23.73		0.0	25.0
			64	0		19.26		0.0	20.0		22.77		0.5	24.5
			64	34		19.19		0.0	20.0		23.65		0.0	25.0
			64	69		19.12		0.0	20.0		22.65		0.5	24.5
			128	0		19.20		0.0	20.0		22.67		0.5	24.5
		QPSK	1	1		19.27		0.0	20.0		23.77		0.0	25.0
			1	66		19.25		0.0	20.0		23.76		0.0	25.0
			1	131		19.25		0.0	20.0		23.72		0.0	25.0
			64	0		19.27		0.0	20.0		22.76		1.0	24.0
			64	34		19.17		0.0	20.0		23.63		0.0	25.0
			64	69		19.12		0.0	20.0		22.66		1.0	24.0
			128	0		19.19		0.0	20.0		22.65		1.0	24.0
		16QAM	1	1		19.20		0.0	20.0		22.71		1.0	24.0
			1	66		19.19		0.0	20.0		22.66		1.0	24.0
			1	131		19.15		0.0	20.0		22.67		1.0	24.0
		64QAM	1	1		19.37		0.0	20.0		21.35		2.5	22.5
		256QAM	1	1		18.76		0.0	20.0		18.68		4.5	20.5
	CP-OFDM	QPSK	1	1		19.32		0.0	20.0		22.27		1.5	23.5

NR Band n66 (Main.2) 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	$\pi/2$ BPSK	1	1	18.78	19.25	19.06	0.0	20.0	23.33	23.76	23.52	0.0	25.0
			1	52	18.93	19.12	19.11	0.0	20.0	23.51	23.54	23.61	0.0	25.0
			1	104	19.19	19.14	19.27	0.0	20.0	23.73	23.59	23.80	0.0	25.0
			50	0	18.96	19.19	19.12	0.0	20.0	22.55	22.71	22.61	0.5	24.5
			50	28	19.02	19.15	19.16	0.0	20.0	23.62	23.60	23.70	0.0	25.0
			50	56	19.20	19.13	19.21	0.0	20.0	22.77	22.62	22.77	0.5	24.5
			100	0	19.06	19.17	19.17	0.0	20.0	22.58	22.68	22.74	0.5	24.5
		QPSK	1	1	18.77	19.28	19.11	0.0	20.0	23.38	23.75	23.60	0.0	25.0
			1	52	18.97	19.09	19.09	0.0	20.0	23.59	23.59	23.68	0.0	25.0
			1	104	19.22	19.11	19.18	0.0	20.0	23.74	23.62	23.81	0.0	25.0
			50	0	19.00	19.21	19.12	0.0	20.0	22.58	22.75	22.63	1.0	24.0
			50	28	19.06	19.16	19.15	0.0	20.0	23.61	23.62	23.74	0.0	25.0
			50	56	19.17	19.11	19.20	0.0	20.0	22.76	22.59	22.82	1.0	24.0
			100	0	19.04	19.16	19.20	0.0	20.0	22.62	22.64	22.70	1.0	24.0
		16QAM	1	1	18.74	19.15	19.01	0.0	20.0	22.35	22.70	22.54	1.0	24.0
			1	52	18.92	18.99	19.05	0.0	20.0	22.49	22.47	22.61	1.0	24.0
			1	104	19.14	19.02	19.20	0.0	20.0	22.69	22.51	22.78	1.0	24.0
		64QAM	1	1	18.95	19.38	19.19	0.0	20.0	20.95	21.36	21.20	2.5	22.5
		256QAM	1	1	18.29	18.73	18.57	0.0	20.0	18.35	18.75	18.55	4.5	20.5
	CP-OFDM	QPSK	1	1	18.88	19.34	19.11	0.0	20.0	21.89	22.25	22.05	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
					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	$\pi/2$ BPSK	1	1	18.79	19.21	19.09	0.0	20.0	23.40	23.68	23.60	0.0	25.0
			1	39	18.97	19.06	19.09	0.0	20.0	23.59	23.57	23.65	0.0	25.0
			1	77	19.21	19.13	19.19	0.0	20.0	23.81	23.63	23.79	0.0	25.0
			36	0	18.95	19.17	19.11	0.0	20.0	22.59	22.73	22.69	0.5	24.5
			36	21	19.06	19.12	19.13	0.0	20.0	23.66	23.60	23.73	0.0	25.0
			36	43	19.10	19.11	19.22	0.0	20.0	22.70	22.63	22.79	0.5	24.5
			75	0	19.04	19.16	19.17	0.0	20.0	22.68	22.66	22.73	0.5	24.5
		QPSK	1	1	18.79	19.25	19.04	0.0	20.0	23.41	23.74	23.62	0.0	25.0
			1	39	18.99	19.11	19.12	0.0	20.0	23.63	23.61	23.69	0.0	25.0
			1	77	19.25	19.11	19.23	0.0	20.0	23.86	23.64	23.82	0.0	25.0
			36	0	18.98	19.22	19.09	0.0	20.0	22.65	22.74	22.68	1.0	24.0
			36	21	19.05	19.13	19.14	0.0	20.0	23.64	23.63	23.71	0.0	25.0
			36	43	19.10	19.10	19.19	0.0	20.0	22.68	22.62	22.78	1.0	24.0
			75	0	19.02	19.14	19.15	0.0	20.0	22.67	22.65	22.72	1.0	24.0
		16QAM	1	1	18.74	19.13	18.98	0.0	20.0	22.35	22.68	22.58	1.0	24.0
			1	39	18.92	18.99	18.98	0.0	20.0	22.51	22.48	22.64	1.0	24.0
			1	77	19.17	19.05	19.18	0.0	20.0	22.77	22.54	22.75	1.0	24.0
		64QAM	1	1	18.95	19.35	19.18	0.0	20.0	20.98	21.33	21.23	2.5	22.5
		256QAM	1	1	18.29	18.71	18.56	0.0	20.0	18.39	18.70	18.57	4.5	20.5
	CP-OFDM	QPSK	1	1	18.88	19.28	19.13	0.0	20.0	21.91	22.20	22.09	1.5	23.5

NR Band n66 (Main.2) 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	$\pi/2$ BPSK	1	1	19.08	18.96	18.88	0.0	20.0	23.39	23.48	23.54	0.0	25.0
			1	25	19.13	19.05	18.97	0.0	20.0	23.45	23.59	23.62	0.0	25.0
			1	50	19.17	18.97	18.95	0.0	20.0	23.55	23.50	23.58	0.0	25.0
			25	0	19.10	19.06	18.93	0.0	20.0	22.45	22.62	22.56	0.5	24.5
			25	13	19.13	19.04	18.98	0.0	20.0	23.50	23.57	23.63	0.0	25.0
			25	27	19.10	19.04	19.02	0.0	20.0	22.51	22.57	22.64	0.5	24.5
			50	0	19.16	18.98	18.98	0.0	20.0	22.43	22.56	22.59	0.5	24.5
		QPSK	1	1	19.15	18.97	18.91	0.0	20.0	23.37	23.46	23.44	0.0	25.0
			1	25	19.14	19.03	18.98	0.0	20.0	23.51	23.56	23.63	0.0	25.0
			1	50	19.22	18.97	18.98	0.0	20.0	23.52	23.52	23.63	0.0	25.0
			25	0	19.14	19.08	18.98	0.0	20.0	22.41	22.59	22.55	1.0	24.0
			25	13	19.11	19.06	18.99	0.0	20.0	23.48	23.55	23.61	0.0	25.0
			25	27	19.13	19.05	18.97	0.0	20.0	22.53	22.56	22.71	1.0	24.0
			50	0	19.12	19.00	18.95	0.0	20.0	22.44	22.53	22.57	1.0	24.0
		16QAM	1	1	19.06	18.94	18.84	0.0	20.0	22.37	22.48	22.47	1.0	24.0
			1	25	19.12	18.97	18.92	0.0	20.0	22.46	22.54	22.59	1.0	24.0
			1	50	19.17	18.93	18.92	0.0	20.0	22.50	22.46	22.55	1.0	24.0
		64QAM	1	1	19.23	19.13	19.08	0.0	20.0	21.02	21.15	21.12	2.5	22.5
		256QAM	1	1	18.69	18.51	18.45	0.0	20.0	18.33	18.48	18.51	4.5	20.5
	CP-OFDM	QPSK	1	1	19.25	19.01	18.94	0.0	20.0	21.84	21.94	21.98	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
					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	$\pi/2$ BPSK	1	1	18.64	19.04	18.95	0.0	20.0	23.30	23.55	23.52	0.0	25.0
			1	12	18.73	19.02	18.97	0.0	20.0	23.36	23.57	23.63	0.0	25.0
			1	23	18.73	19.01	18.97	0.0	20.0	23.37	23.50	23.54	0.0	25.0
			12	0	18.67	19.00	18.97	0.0	20.0	22.36	22.60	22.57	0.5	24.5
			12	6	18.69	19.08	19.01	0.0	20.0	23.39	23.56	23.61	0.0	25.0
			12	13	18.74	19.02	18.96	0.0	20.0	22.43	22.56	22.57	0.5	24.5
			25	0	18.69	19.00	18.96	0.0	20.0	22.37	22.60	22.59	0.5	24.5
		QPSK	1	1	18.64	19.04	18.98	0.0	20.0	23.29	23.59	23.57	0.0	25.0
			1	12	18.74	19.02	18.96	0.0	20.0	23.38	23.55	23.61	0.0	25.0
			1	23	18.74	19.01	18.95	0.0	20.0	23.40	23.55	23.60	0.0	25.0
			12	0	18.70	19.04	18.96	0.0	20.0	22.39	22.58	22.56	1.0	24.0
			12	6	18.72	19.04	19.01	0.0	20.0	23.36	23.56	23.60	0.0	25.0
			12	13	18.72	19.02	18.96	0.0	20.0	22.39	22.59	22.56	1.0	24.0
			25	0	18.73	19.03	19.00	0.0	20.0	22.36	22.61	22.58	1.0	24.0
		16QAM	1	1	18.59	19.00	18.87	0.0	20.0	22.24	22.52	22.52	1.0	24.0
			1	12	18.67	18.96	18.93	0.0	20.0	22.35	22.51	22.57	1.0	24.0
			1	23	18.70	18.96	18.94	0.0	20.0	22.38	22.53	22.53	1.0	24.0
		64QAM	1	1	18.81	19.22	19.10	0.0	20.0	20.97	21.19	21.17	2.5	22.5
		256QAM	1	1	18.19	18.50	18.45	0.0	20.0	18.26	18.54	18.49	4.5	20.5
	CP-OFDM	QPSK	1	1	18.66	19.07	18.95	0.0	20.0	21.78	22.02	21.98	1.5	23.5

NR Band n66 (Sub.2) Measured Results

Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				DSI = 0,3,4					DSI = 2				
				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		
DFT-s-OFDM	$\pi/2$ BPSK	1	1		19.24		0.0	20.0		18.08		0.0	19.0
		1	107		19.24		0.0	20.0		18.23		0.0	19.0
		1	214		19.24		0.0	20.0		18.16		0.0	19.0
		108	0		19.29		0.0	20.0		18.17		0.0	19.0
		108	54		19.34		0.0	20.0		18.18		0.0	19.0
		108	108		19.43		0.0	20.0		18.31		0.0	19.0
		216	0		19.38		0.0	20.0		18.22		0.0	19.0
	QPSK	1	1		19.31		0.0	20.0		18.10		0.0	19.0
		1	107		19.32		0.0	20.0		18.20		0.0	19.0
		1	214		19.31		0.0	20.0		18.17		0.0	19.0
		108	0		19.36		0.0	20.0		18.11		0.0	19.0
		108	54		19.41		0.0	20.0		18.21		0.0	19.0
		108	108		19.40		0.0	20.0		18.28		0.0	19.0
		216	0		19.38		0.0	20.0		18.23		0.0	19.0
	16QAM	1	1		19.27		0.0	20.0		17.95		0.0	19.0
		1	107		19.29		0.0	20.0		18.19		0.0	19.0
		1	214		19.32		0.0	20.0		18.09		0.0	19.0
	64QAM	1	1		19.50		0.0	20.0		18.23		0.0	19.0
	256QAM	1	1		18.86		0.5	19.5		17.63		0.5	18.5
CP-OFDM	QPSK	1	1		19.41		0.0	20.0		18.15		0.0	19.0
Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					Measured Pwr (dBm)				
				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		
DFT-s-OFDM	$\pi/2$ BPSK	1	1		19.30		0.0	20.0		18.12		0.0	19.0
		1	93		19.51		0.0	20.0		18.26		0.0	19.0
		1	186		19.61		0.0	20.0		18.32		0.0	19.0
		90	0		19.39		0.0	20.0		18.13		0.0	19.0
		90	49		19.42		0.0	20.0		18.19		0.0	19.0
		90	98		19.49		0.0	20.0		18.28		0.0	19.0
		180	0		19.40		0.0	20.0		18.20		0.0	19.0
	QPSK	1	1		19.36		0.0	20.0		18.12		0.0	19.0
		1	93		19.51		0.0	20.0		18.32		0.0	19.0
		1	186		19.61		0.0	20.0		18.33		0.0	19.0
		90	0		19.41		0.0	20.0		18.17		0.0	19.0
		90	49		19.41		0.0	20.0		18.21		0.0	19.0
		90	98		19.47		0.0	20.0		18.30		0.0	19.0
		180	0		19.47		0.0	20.0		18.23		0.0	19.0
	16QAM	1	1		19.25		0.0	20.0		18.03		0.0	19.0
		1	93		19.46		0.0	20.0		18.16		0.0	19.0
		1	186		19.58		0.0	20.0		18.29		0.0	19.0
	64QAM	1	1		19.44		0.0	20.0		18.18		0.0	19.0
	256QAM	1	1		18.77		0.0	20.0		17.61		0.5	18.5
CP-OFDM	QPSK	1	1		19.41		0.0	20.0		18.16		0.0	19.0

NR Band n66 (Sub.2) 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	$\pi/2$ BPSK	1	1		19.30		0.0	20.0		17.99		0.0	19.0
			1	79		19.52		0.0	20.0		18.26		0.0	19.0
			1	158		19.46		0.0	20.0		18.23		0.0	19.0
			80	0		19.47		0.0	20.0		18.15		0.0	19.0
			80	40		19.42		0.0	20.0		18.19		0.0	19.0
			80	80		19.52		0.0	20.0		18.24		0.0	19.0
			160	0		19.47		0.0	20.0		18.21		0.0	19.0
		QPSK	1	1		19.32		0.0	20.0		18.08		0.0	19.0
			1	79		19.51		0.0	20.0		18.32		0.0	19.0
			1	158		19.51		0.0	20.0		18.23		0.0	19.0
			80	0		19.39		0.0	20.0		18.16		0.0	19.0
			80	40		19.42		0.0	20.0		18.22		0.0	19.0
			80	80		19.50		0.0	20.0		18.27		0.0	19.0
			160	0		19.46		0.0	20.0		18.24		0.0	19.0
		16QAM	1	1		19.29		0.0	20.0		17.99		0.0	19.0
			1	79		19.51		0.0	20.0		18.21		0.0	19.0
			1	158		19.41		0.0	20.0		18.20		0.0	19.0
		64QAM	1	1		19.48		0.0	20.0		18.18		0.5	18.5
		256QAM	1	1		18.87		0.0	20.0		17.63		1.0	18.0
	CP-OFDM	QPSK	1	1		19.39		0.0	20.0		18.15		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
					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	$\pi/2$ BPSK	1	1		19.49		0.0	20.0		18.08		0.0	19.0
			1	66		19.32		0.0	20.0		18.27		0.0	19.0
			1	131		19.54		0.0	20.0		18.34		0.0	19.0
			64	0		19.37		0.0	20.0		18.16		0.0	19.0
			64	34		19.40		0.0	20.0		18.23		0.0	19.0
			64	69		19.41		0.0	20.0		18.30		0.0	19.0
			128	0		19.40		0.0	20.0		18.25		0.0	19.0
		QPSK	1	1		19.53		0.0	20.0		18.15		0.0	19.0
			1	66		19.38		0.0	20.0		18.30		0.0	19.0
			1	131		19.59		0.0	20.0		18.35		0.0	19.0
			64	0		19.39		0.0	20.0		18.19		0.0	19.0
			64	34		19.42		0.0	20.0		18.25		0.0	19.0
			64	69		19.43		0.0	20.0		18.32		0.0	19.0
			128	0		19.41		0.0	20.0		18.25		0.0	19.0
		16QAM	1	1		19.47		0.0	20.0		18.06		0.0	19.0
			1	66		19.36		0.0	20.0		18.20		0.0	19.0
			1	131		19.58		0.0	20.0		18.31		0.0	19.0
		64QAM	1	1		19.63		0.0	20.0		18.26		0.5	18.5
		256QAM	1	1		19.01		0.0	20.0		17.68		1.0	18.0
	CP-OFDM	QPSK	1	1		19.57		0.0	20.0		18.26		0.0	19.0

NR Band n66 (Sub.2) 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	$\pi/2$ BPSK	1	1	18.85	19.42	19.28	0.0	20.0	18.15	18.21	18.32	0.0	19.0
			1	52	18.96	19.33	19.11	0.0	20.0	18.07	18.20	18.29	0.0	19.0
			1	104	19.04	19.44	19.12	0.0	20.0	18.27	18.37	18.39	0.0	19.0
			50	0	18.97	19.35	19.25	0.0	20.0	18.11	18.19	18.32	0.0	19.0
			50	28	19.08	19.36	19.19	0.0	20.0	18.16	18.25	18.37	0.0	19.0
			50	56	19.15	19.40	19.22	0.0	20.0	18.19	18.26	18.41	0.0	19.0
			100	0	19.08	19.43	19.20	0.0	20.0	18.17	18.30	18.35	0.0	19.0
		QPSK	1	1	18.86	19.43	19.29	0.0	20.0	18.15	18.15	18.31	0.0	19.0
			1	52	18.99	19.33	19.10	0.0	20.0	18.07	18.18	18.28	0.0	19.0
			1	104	19.14	19.49	19.17	0.0	20.0	18.21	18.30	18.39	0.0	19.0
			50	0	19.05	19.38	19.18	0.0	20.0	18.12	18.20	18.32	0.0	19.0
			50	28	19.13	19.38	19.19	0.0	20.0	18.10	18.25	18.37	0.0	19.0
			50	56	19.16	19.43	19.17	0.0	20.0	18.18	18.32	18.42	0.0	19.0
			100	0	19.12	19.39	19.24	0.0	20.0	18.17	18.31	18.27	0.0	19.0
		16QAM	1	1	18.86	19.34	19.24	0.0	20.0	17.97	18.09	18.19	0.0	19.0
			1	52	19.02	19.28	19.11	0.0	20.0	17.94	18.09	18.19	0.0	19.0
			1	104	19.14	19.44	19.12	0.0	20.0	18.12	18.25	18.23	0.0	19.0
		64QAM	1	1	19.01	19.52	19.38	0.0	20.0	18.25	18.36	18.41	0.5	18.5
		256QAM	1	1	18.35	18.88	18.71	0.0	20.0	17.64	17.70	17.82	1.0	18.0
	CP-OFDM	QPSK	1	1	19.07	19.45	19.30	0.0	20.0	18.14	18.26	18.36	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
					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	$\pi/2$ BPSK	1	1	18.78	19.35	18.94	0.0	20.0	18.02	18.26	18.21	0.0	19.0
			1	39	18.80	19.28	18.99	0.0	20.0	18.05	18.24	18.13	0.0	19.0
			1	77	18.90	19.41	19.11	0.0	20.0	18.12	18.34	18.33	0.0	19.0
			36	0	18.85	19.39	19.20	0.0	20.0	18.07	18.26	18.30	0.0	19.0
			36	21	18.79	19.38	19.16	0.0	20.0	18.09	18.26	18.26	0.0	19.0
			36	43	18.92	19.43	19.19	0.0	20.0	18.16	18.28	18.28	0.0	19.0
			75	0	18.87	19.40	19.20	0.0	20.0	18.13	18.26	18.31	0.0	19.0
		QPSK	1	1	18.95	19.38	19.03	0.0	20.0	18.09	18.23	18.30	0.0	19.0
			1	39	18.74	19.29	19.03	0.0	20.0	18.03	18.23	18.17	0.0	19.0
			1	77	18.94	19.46	19.15	0.0	20.0	18.14	18.27	18.34	0.0	19.0
			36	0	18.84	19.40	19.18	0.0	20.0	18.11	18.25	18.30	0.0	19.0
			36	21	18.87	19.42	19.17	0.0	20.0	18.04	18.26	18.30	0.0	19.0
			36	43	18.98	19.39	19.19	0.0	20.0	18.19	18.30	18.30	0.0	19.0
			75	0	18.89	19.38	19.18	0.0	20.0	18.15	18.27	18.31	0.0	19.0
		16QAM	1	1	18.89	19.33	19.04	0.0	20.0	18.02	18.10	18.14	0.0	19.0
			1	39	18.65	19.27	19.00	0.0	20.0	17.94	18.11	18.08	0.0	19.0
			1	77	18.95	19.40	19.14	0.0	20.0	18.06	18.23	18.24	0.0	19.0
		64QAM	1	1	19.07	19.53	19.16	0.0	20.0	18.20	18.34	18.34	0.5	18.5
		256QAM	1	1	18.44	18.86	18.42	0.0	20.0	17.62	17.70	17.77	1.0	18.0
	CP-OFDM	QPSK	1	1	19.00	19.44	19.01	0.0	20.0	18.13	18.30	18.27	0.0	19.0

NR Band n66 (Sub.2) 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	$\pi/2$ BPSK	1	1	18.71	19.31	19.22	0.0	20.0	17.89	18.18	18.14	0.0	19.0
			1	25	18.87	19.33	19.13	0.0	20.0	17.99	18.19	18.23	0.0	19.0
			1	50	18.85	19.30	19.15	0.0	20.0	17.95	18.22	18.18	0.0	19.0
			25	0	18.66	19.29	19.16	0.0	20.0	17.95	18.13	18.18	0.0	19.0
			25	13	18.80	19.37	19.18	0.0	20.0	17.93	18.17	18.16	0.0	19.0
			25	27	18.76	19.36	19.17	0.0	20.0	17.98	18.23	18.19	0.0	19.0
			50	0	18.74	19.31	19.19	0.0	20.0	17.97	18.14	18.16	0.0	19.0
		QPSK	1	1	18.72	19.33	19.23	0.0	20.0	17.93	18.17	18.15	0.0	19.0
			1	25	18.86	19.34	19.17	0.0	20.0	17.99	18.20	18.25	0.0	19.0
			1	50	18.80	19.38	19.19	0.0	20.0	18.00	18.22	18.19	0.0	19.0
			25	0	18.67	19.34	19.23	0.0	20.0	17.96	18.17	18.19	0.0	19.0
			25	13	18.76	19.35	19.22	0.0	20.0	17.96	18.18	18.16	0.0	19.0
			25	27	18.71	19.37	19.17	0.0	20.0	17.97	18.22	18.20	0.0	19.0
			50	0	18.72	19.35	19.19	0.0	20.0	17.93	18.15	18.17	0.0	19.0
		16QAM	1	1	18.72	19.33	19.26	0.0	20.0	17.87	18.06	18.03	0.0	19.0
			1	25	18.76	19.30	19.13	0.0	20.0	17.92	18.10	18.14	0.0	19.0
			1	50	18.72	19.34	19.18	0.0	20.0	17.84	18.12	18.07	0.0	19.0
		64QAM	1	1	18.88	19.48	19.37	0.0	20.0	18.05	18.34	18.25	0.5	18.5
		256QAM	1	1	18.25	18.81	18.71	0.0	20.0	17.46	17.70	17.67	1.0	18.0
	CP-OFDM	QPSK	1	1	18.75	19.37	19.24	0.0	20.0	17.95	18.22	18.17	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
					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	$\pi/2$ BPSK	1	1	18.78	19.37	19.05	0.0	20.0	17.94	18.18	18.08	0.0	19.0
			1	12	18.79	19.39	19.22	0.0	20.0	17.92	18.21	18.14	0.0	19.0
			1	23	18.80	19.34	19.21	0.0	20.0	17.93	18.15	18.07	0.0	19.0
			12	0	18.70	19.35	19.13	0.0	20.0	17.91	18.15	18.12	0.0	19.0
			12	6	18.72	19.36	19.19	0.0	20.0	17.90	18.21	18.12	0.0	19.0
			12	13	18.86	19.41	19.17	0.0	20.0	17.90	18.20	18.13	0.0	19.0
			25	0	18.77	19.34	19.17	0.0	20.0	17.92	18.21	18.13	0.0	19.0
		QPSK	1	1	18.77	19.37	19.06	0.0	20.0	17.90	18.16	18.16	0.0	19.0
			1	12	18.78	19.39	19.20	0.0	20.0	17.91	18.22	18.16	0.0	19.0
			1	23	18.80	19.33	19.21	0.0	20.0	17.94	18.16	18.12	0.0	19.0
			12	0	18.73	19.37	19.13	0.0	20.0	17.87	18.15	18.11	0.0	19.0
			12	6	18.72	19.38	19.19	0.0	20.0	17.91	18.22	18.14	0.0	19.0
			12	13	18.87	19.39	19.17	0.0	20.0	17.91	18.20	18.14	0.0	19.0
			25	0	18.76	19.34	19.16	0.0	20.0	17.94	18.19	18.16	0.0	19.0
		16QAM	1	1	18.79	19.29	19.08	0.0	20.0	17.79	18.07	18.06	0.0	19.0
			1	12	18.78	19.35	19.20	0.0	20.0	17.78	18.11	18.05	0.0	19.0
			1	23	18.79	19.30	19.20	0.0	20.0	17.83	18.06	18.01	0.0	19.0
		64QAM	1	1	18.95	19.50	19.21	0.0	20.0	18.04	18.29	18.23	0.5	18.5
		256QAM	1	1	18.29	18.81	18.55	0.0	20.0	17.37	17.67	17.66	1.0	18.0
	CP-OFDM	QPSK	1	1	18.79	19.35	19.08	0.0	20.0	17.92	18.17	18.14	0.0	19.0

NR Band n41 (Voice/Data/SRS1) (Main.2) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)						Maximum Allowed Average Power (dBm)							
					DSI = 0, 3, 4						DSI = 2							
					Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
							518598 2592.99 MHz							518598 2592.99 MHz				
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1			16.45			0.0	18.0			24.08			0.0	25.5
			1	136			16.47			0.0	18.0			24.29			0.0	25.5
			1	271			16.78			0.0	18.0			24.67			0.0	25.5
			135	0			16.53			0.0	18.0			24.00			0.0	25.5
			135	69			16.57			0.0	18.0			24.16			0.0	25.5
			135	138			16.61			0.0	18.0			24.29			0.0	25.5
			270	0			16.62			0.0	18.0			24.29			0.0	25.5
		QPSK	1	1			16.53			0.0	18.0			24.25			0.0	25.5
			1	136			16.55			0.0	18.0			24.21			0.0	25.5
			1	271			16.81			0.0	18.0			24.30			0.0	25.5
			135	0			16.60			0.0	18.0			23.97			1.0	24.5
			135	69			16.61			0.0	18.0			24.30			0.0	25.5
			135	138			16.59			0.0	18.0			23.38			1.0	24.5
			270	0			16.63			0.0	18.0			23.65			1.0	24.5
		16QAM	1	1			16.61			0.0	18.0			24.27			1.0	24.5
			1	136			16.59			0.0	18.0			23.27			1.0	24.5
			1	271			16.62			0.0	18.0			23.46			1.0	24.5
		64QAM	1	1			16.62			0.0	18.0			23.13			2.0	23.5
256QAM	1		1			16.80			0.0	18.0			21.90			3.5	22.0	
CP-OFDM	QPSK	1	1			16.72			0.0	18.0			24.00			1.0	24.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
					508200 2541.00 MHz			528996 2644.98 MHz			508200 2541.00 MHz			528996 2644.98 MHz				
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.10				17.14	0.0	18.0	24.10				24.12	0.0	25.5
			1	122	16.99				17.25	0.0	18.0	24.05				24.36	0.0	25.5
			1	243	17.21				17.18	0.0	18.0	24.21				23.77	0.0	25.5
			120	0	16.96				17.32	0.0	18.0	24.00				24.32	0.0	25.5
			120	62	17.11				17.45	0.0	18.0	24.21				24.50	0.0	25.5
			120	125	16.99				17.17	0.0	18.0	24.05				24.25	0.0	25.5
			243	0	17.13				17.40	0.0	18.0	24.16				24.42	0.0	25.5
		QPSK	1	1	17.10				17.21	0.0	18.0	23.77				24.33	0.0	25.5
			1	122	17.04				17.49	0.0	18.0	24.13				24.19	0.0	25.5
			1	243	17.10				17.16	0.0	18.0	24.20				23.11	0.0	25.5
			120	0	17.12				17.41	0.0	18.0	23.60				23.80	1.0	24.5
			120	62	17.10				17.33	0.0	18.0	24.12				24.35	0.0	25.5
			120	125	17.08				17.20	0.0	18.0	24.16				23.31	1.0	24.5
			243	0	17.01				17.31	0.0	18.0	24.11				23.51	1.0	24.5
		16QAM	1	1	17.17				17.39	0.0	18.0	23.00				24.11	1.0	24.5
			1	122	17.05				17.50	0.0	18.0	24.16				23.91	1.0	24.5
			1	243	17.26				17.34	0.0	18.0	23.78				22.31	1.0	24.5
		64QAM	1	1	17.12				17.16	0.0	18.0	21.58				22.90	2.0	23.5
256QAM	1	1	17.40				17.27	0.0	18.0	20.31				21.38	3.5	22.0		
CP-OFDM	QPSK	1	1	17.24				17.15	0.0	18.0	22.16				23.52	1.0	24.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit	Measured Pwr (dBm)				MPR	Tune-up Limit		
					507204 2536.02 MHz			529998 2649.99 MHz			507204 2536.02 MHz			529998 2649.99 MHz				
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.16				17.16	0.0	18.0	24.13				24.21	0.0	25.5
			1	108	16.96				17.22	0.0	18.0	24.05				24.30	0.0	25.5
			1	215	17.14				17.00	0.0	18.0	24.19				23.88	0.0	25.5
			108	0	17.10				17.30	0.0	18.0	24.24				24.32	0.0	25.5
			108	54	17.05				17.40	0.0	18.0	24.18				24.39	0.0	25.5
			108	109	17.10				17.20	0.0	18.0	24.07				24.23	0.0	25.5
			216	0	16.94				17.44	0.0	18.0	24.00				24.50	0.0	25.5
		QPSK	1	1	17.28				17.25	0.0	18.0	23.27				24.26	0.0	25.5
			1	108	17.16				17.41	0.0	18.0	24.16				24.18	0.0	25.5
			1	215	17.24				17.09	0.0	18.0	24.25				23.09	0.0	25.5
			108	0	17.12				17.45	0.0	18.0	23.16				23.83	1.0	24.5
			108	54	17.20				17.33	0.0	18.0	24.25				24.39	0.0	25.5
			108	109	16.96				17.30	0.0	18.0	24.22				22.73	1.0	24.5
			216	0	17.00				17.32	0.0	18.0	24.06				23.52	1.0	24.5
		16QAM	1	1	17.38				17.25	0.0	18.0	22.60				24.38	1.0	24.5
			1	108	17.20				17.24	0.0	18.0	24.16				24.03	1.0	24.5
			1	215	17.32				16.99	0.0	18.0	24.06				22.93	1.0	24.5
		64QAM	1	1	17.13				17.26	0.0	18.0	21.81				23.30	2.0	23.5
256QAM	1	1	17.41				17.23	0.0	18.0	20.20				21.50	3.5	22.0		
CP-OFDM	QPSK	1	1	17.10				17.28	0.0	18.0	22.02				24.16	1.0	24.5	

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n41 (Voice/Data/SRS1) (Main.2) 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	
					506202			531000			506202			531000			
					2531.01 MHz			2655.00 MHz			2531.01 MHz			2655.00 MHz			
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.95			17.30	0.0	18.0	24.22			24.23	0.0	25.5	
			1	94	17.11			17.18	0.0	18.0	24.18			24.29	0.0	25.5	
			1	187	16.92			16.90	0.0	18.0	23.98			24.05	0.0	25.5	
			90	0	17.14			17.25	0.0	18.0	24.18			24.46	0.0	25.5	
			90	49	17.01			17.20	0.0	18.0	24.11			24.40	0.0	25.5	
			90	99	16.95			17.02	0.0	18.0	24.11			24.05	0.0	25.5	
		180	0	16.96			17.32	0.0	18.0	24.05			24.46	0.0	25.5		
		QPSK	1	1	17.26			17.30	0.0	18.0	23.87			24.38	0.0	25.5	
			1	94	17.05			17.40	0.0	18.0	24.02			24.35	0.0	25.5	
			1	187	17.10			17.05	0.0	18.0	24.11			23.43	0.0	25.5	
			90	0	16.98			17.38	0.0	18.0	23.70			23.97	1.0	24.5	
			90	49	17.11			17.27	0.0	18.0	24.11			24.29	0.0	25.5	
			90	99	16.99			17.18	0.0	18.0	24.06			22.92	1.0	24.5	
		180	0	17.06			17.28	0.0	18.0	23.99			23.78	1.0	24.5		
		16QAM	1	1	17.13			17.25	0.0	18.0	23.05			24.14	1.0	24.5	
			1	94	17.04			17.12	0.0	18.0	24.03			23.40	1.0	24.5	
			1	187	17.07			16.94	0.0	18.0	24.11			22.29	1.0	24.5	
		64QAM	1	1	17.20			17.35	0.0	18.0	21.86			23.11	2.0	23.5	
	256QAM	1	1	17.37			17.33	0.0	18.0	20.68			21.67	3.5	22.0		
CP-OFDM	QPSK	1	1	17.02			17.25	0.0	18.0	22.41			24.00	1.0	24.5		
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	$\pi/2$ BPSK	1	1	17.40		17.05	17.32	0.0	18.0	24.40		24.22		24.38	0.0	25.5
			1	80	17.26		17.27	17.45	0.0	18.0	24.38		24.52		24.56	0.0	25.5
			1	160	17.16		17.31	17.24	0.0	18.0	24.35		24.61		24.00	0.0	25.5
			81	0	17.16		17.27	17.42	0.0	18.0	24.33		24.50		24.64	0.0	25.5
			81	40	17.22		17.26	17.41	0.0	18.0	24.50		24.51		24.64	0.0	25.5
			81	81	17.22		17.23	17.28	0.0	18.0	24.44		24.51		23.78	0.0	25.5
		162	0	17.22		17.29	17.30	0.0	18.0	24.44		24.52		24.31	0.0	25.5	
		QPSK	1	1	17.26		17.12	17.45	0.0	18.0	23.47		24.49		24.62	0.0	25.5
			1	80	17.20		17.27	17.46	0.0	18.0	24.40		24.59		23.77	0.0	25.5
			1	160	17.16		17.32	17.25	0.0	18.0	24.36		24.66		23.20	0.0	25.5
			81	0	17.18		17.31	17.41	0.0	18.0	23.10		23.86		23.51	1.0	24.5
			81	40	17.16		17.29	17.36	0.0	18.0	24.39		24.44		23.83	0.0	25.5
			81	81	17.22		17.19	17.29	0.0	18.0	24.20		23.60		22.51	1.0	24.5
		162	0	17.20		17.27	17.33	0.0	18.0	23.71		23.77		23.12	1.0	24.5	
		16QAM	1	1	17.37		17.44	17.18	0.0	18.0	22.77		24.46		23.82	1.0	24.5
			1	80	17.32		17.44	17.21	0.0	18.0	23.72		23.66		22.81	1.0	24.5
			1	160	17.27		17.46	16.98	0.0	18.0	24.38		23.95		22.05	1.0	24.5
		64QAM	1	1	17.28		17.14	17.30	0.0	18.0	21.54		22.80		22.64	2.0	23.5
	256QAM	1	1	17.36		17.36	17.48	0.0	18.0	20.22		21.56		21.53	3.5	22.0	
CP-OFDM	QPSK	1	1	17.37		17.24	17.31	0.0	18.0	22.15		23.81		23.47	1.0	24.5	
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	$\pi/2$ BPSK	1	1	17.25		17.32	17.18	0.0	18.0	24.45		24.34		24.60	0.0	25.5
			1	66	17.12		17.39	17.32	0.0	18.0	24.44		24.48		24.49	0.0	25.5
			1	131	17.26		17.36	17.19	0.0	18.0	24.52		24.52		23.82	0.0	25.5
			64	0	17.12		17.31	17.26	0.0	18.0	24.03		24.53		24.56	0.0	25.5
			64	34	17.13		17.33	17.26	0.0	18.0	24.40		24.56		24.43	0.0	25.5
			64	69	17.12		17.27	17.20	0.0	18.0	24.45		24.50		23.63	0.0	25.5
		128	0	17.07		17.33	17.20	0.0	18.0	24.37		24.55		24.17	0.0	25.5	
		QPSK	1	1	17.32		17.37	17.35	0.0	18.0	23.31		24.63		24.62	0.0	25.5
			1	66	17.14		17.37	17.26	0.0	18.0	23.94		24.16		23.51	0.0	25.5
			1	131	17.26		17.39	17.20	0.0	18.0	24.50		24.49		23.44	0.0	25.5
			64	0	17.20		17.31	17.27	0.0	18.0	22.69		23.59		23.37	1.0	24.5
			64	34	17.16		17.37	17.26	0.0	18.0	24.00		24.22		23.66	0.0	25.5
			64	69	17.19		17.24	17.19	0.0	18.0	23.87		23.43		22.35	1.0	24.5
		128	0	17.16		17.36	17.29	0.0	18.0	23.30		23.56		22.95	1.0	24.5	
		16QAM	1	1	17.20		17.42	17.33	0.0	18.0	22.43		24.17		23.79	1.0	24.5
			1	66	17.04		17.48	17.32	0.0	18.0	23.07		23.44		22.65	1.0	24.5
			1	131	17.22		17.47	17.11	0.0	18.0	24.21		23.78		22.70	1.0	24.5
		64QAM	1	1	17.29		17.46	17.29	0.0	18.0	21.21		22.94		22.45	2.0	23.5
	256QAM	1	1	17.43		17.45	17.28	0.0	18.0	20.18		21.64		21.11	3.5	22.0	
CP-OFDM	QPSK	1	1	17.24		17.34	17.38	0.0	18.0	22.39		23.74		23.86	1.0	24.5	

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n41 (Voice/Data/SRS1) (Main.2) 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	$\pi/2$ BPSK	1	1	17.38	17.22		17.15	17.57	0.0	18.0	24.42	24.25		24.50	24.66	0.0	25.5	
			1	52	17.25	17.14		17.25	17.36	0.0	18.0	24.50	24.24		24.56	24.38	0.0	25.5	
			1	104	17.37	17.39		17.51	17.45	0.0	18.0	24.61	24.52		24.83	23.60	0.0	25.5	
			50	0	17.21	17.09		17.25	17.45	0.0	18.0	23.95	24.28		24.59	24.32	0.0	25.5	
			50	28	17.27	17.11		17.36	17.35	0.0	18.0	24.44	24.36		24.62	24.18	0.0	25.5	
		50	56	17.20	17.27		17.44	17.48	0.0	18.0	24.46	24.46		24.68	23.33	0.0	25.5		
		100	0	17.29	17.21		17.38	17.43	0.0	18.0	24.26	24.43		24.64	23.86	0.0	25.5		
		QPSK	1	1	17.36	17.28		17.36	17.61	0.0	18.0	23.21	24.51		24.51	24.22	0.0	25.5	
			1	52	17.25	17.12		17.30	17.36	0.0	18.0	23.69	24.34		24.30	23.29	0.0	25.5	
			1	104	17.38	17.41		17.55	17.49	0.0	18.0	24.55	24.63		24.32	23.03	0.0	25.5	
	50		0	17.18	17.17		17.32	17.46	0.0	18.0	22.54	24.19		23.63	23.03	1.0	24.5		
	50		28	17.23	17.19		17.39	17.34	0.0	18.0	23.75	24.40		24.37	23.35	0.0	25.5		
	16QAM	50	56	17.24	17.27		17.48	17.42	0.0	18.0	23.51	23.91		23.49	22.11	1.0	24.5		
		100	0	17.25	17.18		17.40	17.40	0.0	18.0	23.01	24.04		23.63	22.68	1.0	24.5		
		1	1	17.37	17.17		17.33	17.32	0.0	18.0	22.27	24.41		23.71	23.23	1.0	24.5		
		1	52	17.25	17.01		17.32	17.13	0.0	18.0	22.78	24.33		23.50	22.27	1.0	24.5		
		1	104	17.35	17.27		17.50	17.22	0.0	18.0	23.95	24.08		23.52	22.07	1.0	24.5		
	CP-OFDM	64QAM	1	1	17.20	17.38		17.24	17.68	0.0	18.0	21.05	23.11		22.33	22.28	2.0	23.5	
		256QAM	1	1	17.44	17.51		17.47	17.70	0.0	18.0	20.10	21.77		21.21	20.01	3.5	22.0	
		QPSK	1	1	17.43	16.65		17.37	17.56	0.0	18.0	22.10	24.45		23.34	23.02	1.0	24.5	
30 MHz		DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.38	17.06	17.41	17.29	17.40	0.0	18.0	24.24	24.35	24.32	24.61	24.49	0.0	25.5
				1	39	17.14	17.10	17.27	17.27	17.25	0.0	18.0	24.21	24.26	24.33	24.54	23.92	0.0	25.5
	1			76	17.27	17.13	17.24	17.37	17.30	0.0	18.0	24.35	24.30	24.41	24.70	23.71	0.0	25.5	
	36			0	17.26	17.07	17.35	17.31	17.40	0.0	18.0	23.86	24.27	24.44	24.51	23.81	0.0	25.5	
	36			21	17.26	17.16	17.33	17.34	17.36	0.0	18.0	24.13	24.42	24.45	24.58	23.71	0.0	25.5	
	36			42	17.19	17.15	17.19	17.27	17.20	0.0	18.0	24.05	24.30	24.44	24.53	23.16	0.0	25.5	
	75			0	17.25	17.12	17.24	17.30	17.29	0.0	18.0	23.86	24.39	24.48	24.64	23.54	0.0	25.5	
	QPSK		1	1	17.32	17.17	17.36	17.39	17.44	0.0	18.0	23.35	24.46	24.64	24.60	23.58	0.0	25.5	
			1	39	17.16	17.19	17.23	17.23	17.24	0.0	18.0	23.24	24.45	24.23	24.12	23.77	0.0	25.5	
			1	76	17.31	17.17	17.25	17.34	17.16	0.0	18.0	23.94	24.37	24.41	24.27	23.05	0.0	25.5	
		36	0	17.27	17.07	17.31	17.33	17.31	0.0	18.0	22.42	24.31	23.57	23.63	22.44	1.0	24.5		
		36	21	17.18	17.11	17.21	17.31	17.20	0.0	18.0	23.31	24.32	24.21	24.21	23.00	0.0	25.5		
		36	42	17.19	17.13	17.17	17.35	17.27	0.0	18.0	22.75	24.18	23.45	23.42	22.05	1.0	24.5		
		75	0	17.18	17.20	17.22	17.37	17.34	0.0	18.0	22.57	24.30	23.60	23.57	22.40	1.0	24.5		
	16QAM	1	1	17.34	17.05	17.16	17.43	17.46	0.0	18.0	22.47	24.29	23.72	24.04	22.91	1.0	24.5		
		1	39	17.19	17.04	17.03	17.39	17.28	0.0	18.0	22.48	24.14	23.26	23.46	22.16	1.0	24.5		
		1	76	17.31	16.98	17.05	17.55	17.22	0.0	18.0	23.14	24.27	23.58	23.60	22.02	1.0	24.5		
	64QAM	1	1	17.08	17.04	17.12	17.31	17.43	0.0	18.0	21.03	23.18	22.37	22.61	21.64	2.0	23.5		
	256QAM	1	1	17.39	17.47	17.41	17.51	17.26	0.0	18.0	20.06	21.85	21.28	21.53	20.72	3.5	22.0		
	CP-OFDM	QPSK	1	1	17.32	17.17	17.33	17.49	17.51	0.0	18.0	22.11	24.10	23.47	23.70	22.34	1.0	24.5	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.33	17.09	17.42	17.30	17.44	0.0	18.0	24.28	24.38	24.33	24.59	24.47	0.0	25.5	
			1	25	17.16	17.06	17.29	17.25	17.24	0.0	18.0	24.22	24.31	24.31	24.50	23.88	0.0	25.5	
			1	49	17.25	17.12	17.26	17.42	17.27	0.0	18.0	24.37	24.30	24.39	24.68	23.70	0.0	25.5	
			25	0	17.23	17.07	17.30	17.26	17.36	0.0	18.0	23.87	24.31	24.49	24.52	23.76	0.0	25.5	
			25	13	17.22	17.13	17.28	17.31	17.31	0.0	18.0	24.13	24.40	24.42	24.58	23.75	0.0	25.5	
		25	26	17.23	17.14	17.21	17.26	17.25	0.0	18.0	24.05	24.33	24.42	24.56	23.19	0.0	25.5		
		50	0	17.21	17.16	17.25	17.35	17.30	0.0	18.0	23.88	24.34	24.52	24.61	23.49	0.0	25.5		
		QPSK	1	1	17.35	17.21	17.36	17.36	17.41	0.0	18.0	23.33	24.45	24.60	24.61	23.61	0.0	25.5	
			1	25	17.21	17.20	17.25	17.26	17.22	0.0	18.0	23.29	24.40	24.22	24.15	23.90	0.0	25.5	
			1	49	17.31	17.15	17.25	17.39	17.21	0.0	18.0	23.97	24.39	24.45	24.28	23.20	0.0	25.5	
	25		0	17.22	17.06	17.26	17.28	17.32	0.0	18.0	22.43	24.33	23.57	23.66	23.01	1.0	24.5		
	25		13	17.17	17.13	17.26	17.30	17.25	0.0	18.0	23.31	24.35	24.23	24.26	23.45	0.0	25.5		
	16QAM	25	26	17.24	17.11	17.19	17.31	17.22	0.0	18.0	22.75	24.21	23.48	23.40	22.55	1.0	24.5		
		50	0	17.22	17.15	17.21	17.32	17.33	0.0	18.0	22.60	24.33	23.56	23.58	22.95	1.0	24.5		
		1	1	17.31	17.06	17.20	17.40	17.44	0.0	18.0	22.52	24.25	23.69	24.01	22.94	1.0	24.5		
		1	25	17.18	17.03	17.02	17.38	17.28	0.0	18.0	22.47	24.14	23.21	23.46	22.12	1.0	24.5		
		1	49	17.31	17.02	17.00	17.50	17.23	0.0	18.0	23.19	24.22	23.56	23.58	22.03	1.0	24.5		
	64QAM	1	1	17.09	17.08	17.11	17.28	17.47	0.0	18.0	21.02	23.16	22.38	22.57	21.61	2.0	23.5		
	256QAM	1	1	17.44	17.48	17.40	17.56	17.27	0.0	18.0	20.10	21.81	21.29	21.54	20.70	3.5	22.0		
	CP-OFDM	QPSK	1	1	17.36	17.13	17.33	17.46	17.49	0.0	18.0	22.12	24.11	23.44	23.72	22.38	1.0	24.5	

NR Band n41 (Voice/Data/SRS1) (Main.2) 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	17.33	17.12	17.41	17.30	17.43	0.0	18.0	24.31	24.34	24.37	24.57	24.44	0.0	25.5
			1	18	17.13	17.07	17.28	17.22	17.28	0.0	18.0	24.20	24.29	24.32	24.50	23.84	0.0	25.5
			1	36	17.22	17.17	17.24	17.45	17.22	0.0	18.0	24.32	24.33	24.39	24.69	23.75	0.0	25.5
			18	0	17.28	17.12	17.28	17.30	17.38	0.0	18.0	23.86	24.34	24.45	24.53	23.71	0.0	25.5
			18	10	17.24	17.09	17.30	17.29	17.33	0.0	18.0	24.14	24.40	24.41	24.57	23.76	0.0	25.5
			18	20	17.21	17.16	17.19	17.30	17.26	0.0	18.0	24.07	24.32	24.41	24.58	23.14	0.0	25.5
			36	0	17.22	17.17	17.30	17.32	17.25	0.0	18.0	23.90	24.37	24.52	24.61	23.50	0.0	25.5
		QPSK	1	1	17.36	17.23	17.41	17.40	17.42	0.0	18.0	23.37	24.48	24.57	24.61	23.66	0.0	25.5
			1	18	17.23	17.22	17.21	17.29	17.21	0.0	18.0	23.27	24.42	24.27	24.15	23.37	0.0	25.5
			1	36	17.33	17.19	17.25	17.37	17.21	0.0	18.0	23.94	24.38	24.41	24.31	23.20	0.0	25.5
			18	0	17.27	17.07	17.23	17.26	17.33	0.0	18.0	22.38	24.33	23.53	23.71	22.51	1.0	24.5
			18	10	17.16	17.08	17.27	17.30	17.22	0.0	18.0	23.34	24.35	24.27	24.26	23.22	0.0	25.5
			18	20	17.23	17.07	17.23	17.26	17.23	0.0	18.0	22.80	24.20	23.51	23.41	22.05	1.0	24.5
			36	0	17.23	17.18	17.21	17.35	17.29	0.0	18.0	22.60	24.32	23.59	23.61	22.31	1.0	24.5
		16QAM	1	1	17.30	17.01	17.21	17.45	17.42	0.0	18.0	22.52	24.27	23.68	24.00	22.99	1.0	24.5
			1	18	17.23	17.05	16.99	17.35	17.32	0.0	18.0	22.49	24.14	23.17	23.48	22.11	1.0	24.5
			1	36	17.28	17.00	17.04	17.49	17.21	0.0	18.0	23.17	24.26	23.60	23.60	22.00	1.0	24.5
		64QAM	1	1	17.10	17.08	17.08	17.27	17.49	0.0	18.0	21.02	23.13	22.33	22.59	21.61	2.0	23.5
		256QAM	1	1	17.40	17.43	17.41	17.53	17.31	0.0	18.0	20.10	21.76	21.24	21.55	20.66	3.5	22.0
	CP-OFDM	QPSK	1	1	17.36	17.16	17.32	17.49	17.50	0.0	18.0	22.10	24.10	23.49	23.74	22.34	1.0	24.5
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	17.33	17.07	16.99	17.20	17.21	0.0	18.0	24.21	24.21	24.13	24.34	24.30	0.0	25.5
			1	12	17.32	17.13	17.06	17.25	17.18	0.0	18.0	24.22	24.30	24.44	24.45	24.02	0.0	25.5
			1	22	17.31	17.20	17.11	17.36	17.20	0.0	18.0	24.32	24.30	24.43	24.60	24.06	0.0	25.5
			12	0	17.33	17.14	17.10	17.24	17.20	0.0	18.0	24.14	24.21	24.43	24.46	23.69	0.0	25.5
			12	6	17.32	17.15	17.12	17.26	17.25	0.0	18.0	24.32	24.29	24.40	24.51	23.78	0.0	25.5
			12	12	17.35	17.20	17.13	17.39	17.26	0.0	18.0	24.17	24.30	24.40	24.63	23.32	0.0	25.5
			24	0	17.33	17.18	17.17	17.30	17.26	0.0	18.0	24.00	24.33	24.42	24.55	23.41	0.0	25.5
		QPSK	1	1	17.40	17.22	17.11	17.34	17.29	0.0	18.0	23.69	24.31	24.31	24.55	23.43	0.0	25.5
			1	12	17.41	17.19	17.18	17.32	17.25	0.0	18.0	23.43	24.27	24.16	24.23	23.00	0.0	25.5
			1	22	17.40	17.19	17.22	17.42	17.29	0.0	18.0	23.93	24.33	24.38	24.46	23.12	0.0	25.5
			12	0	17.36	17.22	17.21	17.31	17.28	0.0	18.0	22.80	24.27	23.61	23.69	22.29	1.0	24.5
			12	6	17.37	17.21	17.18	17.28	17.22	0.0	18.0	23.50	24.28	24.27	24.32	23.00	0.0	25.5
			12	12	17.39	17.18	17.20	17.44	17.29	0.0	18.0	22.86	24.33	23.53	23.53	22.02	1.0	24.5
			24	0	17.34	17.23	17.15	17.28	17.28	0.0	18.0	22.80	24.31	23.58	23.63	22.20	1.0	24.5
		16QAM	1	1	17.44	17.29	16.92	17.16	17.41	0.0	18.0	22.69	24.29	23.82	23.90	22.67	1.0	24.5
			1	12	17.39	17.25	16.99	17.16	17.46	0.0	18.0	22.40	24.29	23.35	23.36	22.20	1.0	24.5
			1	22	17.38	17.28	16.98	17.28	17.44	0.0	18.0	22.94	24.26	23.78	23.69	22.21	1.0	24.5
		64QAM	1	1	17.54	17.23	17.26	17.40	17.40	0.0	18.0	21.63	23.41	22.52	22.71	21.40	2.0	23.5
		256QAM	1	1	17.72	17.26	17.13	17.39	17.37	0.0	18.0	20.54	21.66	21.58	21.42	20.23	3.5	22.0
	CP-OFDM	QPSK	1	1	17.26	17.26	17.07	17.36	17.46	0.0	18.0	22.46	24.31	24.11	23.56	22.22	1.0	24.5

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n41 (SRS2) (Sub.2) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit
		DSI = 0, 2, 3, 4					
		Measured Pwr (dBm)					
				518598			
				2592.99 MHz			
100 MHz	SRS CW			18.20			19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		508200				528996	
		2541.00 MHz				2644.98 MHz	
90 MHz	SRS CW	17.46				18.65	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		507204				529998	
		2536.02 MHz				2649.99 MHz	
80 MHz	SRS CW	17.57				18.60	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		506202				531000	
		2531.01 MHz				2655.00 MHz	
70 MHz	SRS CW	17.65				18.57	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		505200		518598		531996	
		2526.00 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	SRS CW	17.59		18.11		18.62	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		504204		518598		532998	
		2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	SRS CW	17.61		18.19		18.61	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		503202	513468		523734	534000	
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz	
40 MHz	SRS CW	17.57	17.71		18.48	18.57	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		502200	510402	518598	526800	534996	
		2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz	
30 MHz	SRS CW	17.58	17.70	18.25	18.51	18.66	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		501204	509904	518598	527298	535998	
		2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	SRS CW	17.59	17.66	18.20	18.54	18.69	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500700	509652	518598	527550	536496	
		2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz	
15 MHz	SRS CW	17.44	17.63	18.17	18.57	18.77	19.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500202	509400	518598	527802	537000	
		2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz	
10 MHz	SRS CW	17.45	17.62	18.20	18.62	18.80	19.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n41 (SRS3) (Sub.4) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit
		DSI = 0, 2, 3, 4					
		Measured Pwr (dBm)					
				518598			
				2592.99 MHz			
100 MHz	SRS CW			12.60			14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		508200				528996	
		2541.00 MHz				2644.98 MHz	
90 MHz	SRS CW	13.02				13.54	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		507204				529998	
		2536.02 MHz				2649.99 MHz	
80 MHz	SRS CW	12.54				13.60	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		506202				531000	
		2531.01 MHz				2655.00 MHz	
70 MHz	SRS CW	12.37				13.58	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		505200		518598		531996	
		2526.00 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	SRS CW	12.44		13.02		13.57	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		504204		518598		532998	
		2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	SRS CW	12.57		13.10		13.04	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		503202	513468		523734	534000	
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz	
40 MHz	SRS CW	12.42	12.55		13.44	12.87	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		502200	510402	518598	526800	534996	
		2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz	
30 MHz	SRS CW	12.20	12.29	13.15	13.53	12.44	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		501204	509904	518598	527298	535998	
		2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	SRS CW	12.15	12.51	13.22	13.61	12.21	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500700	509652	518598	527550	536496	
		2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz	
15 MHz	SRS CW	12.10	12.67	13.30	13.60	12.12	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500202	509400	518598	527802	537000	
		2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz	
10 MHz	SRS CW	12.02	13.00	13.40	13.67	12.07	14.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n41 (SRS4) (Sub.1) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					Tune-up Limit
		DSI = 0, 2, 3, 4					
		Measured Pwr (dBm)					
				518598			
				2592.99 MHz			
100 MHz	SRS CW			13.30			15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		508200				528996	
		2541.00 MHz				2644.98 MHz	
90 MHz	SRS CW	13.91				13.71	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		507204				529998	
		2536.02 MHz				2649.99 MHz	
80 MHz	SRS CW	13.88				13.71	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		506202				531000	
		2531.01 MHz				2655.00 MHz	
70 MHz	SRS CW	13.79				13.77	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		505200		518598		531996	
		2526.00 MHz		2592.99 MHz		2659.98 MHz	
60 MHz	SRS CW	13.78		13.41		13.77	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		504204		518598		532998	
		2521.02 MHz		2592.99 MHz		2664.99 MHz	
50 MHz	SRS CW	14.10		13.40		13.76	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		503202	513468		523734	534000	
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz	
40 MHz	SRS CW	14.23	13.76		13.44	13.73	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		502200	510402	518598	526800	534996	
		2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz	
30 MHz	SRS CW	14.35	13.77	13.45	13.45	13.75	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		501204	509904	518598	527298	535998	
		2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz	
20 MHz	SRS CW	14.57	13.82	13.44	13.43	13.72	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500700	509652	518598	527550	536496	
		2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz	
15 MHz	SRS CW	14.72	13.76	13.42	13.42	13.75	15.0
BW (MHz)	Mode	Measured Pwr (dBm)					Tune-up Limit
		500202	509400	518598	527802	537000	
		2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz	
10 MHz	SRS CW	14.77	13.77	13.45	13.42	13.76	15.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0, 3, 4										
					Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
						633334		650000						662000	
					3500.01 MHz		3750.00 MHz					3930.00 MHz			
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.81		13.36					13.18	0.0	15.0
			1	136		13.57		13.48					13.04	0.0	15.0
			1	271		13.46		13.43					12.90	0.0	15.0
			135	0		13.67		13.50					12.98	0.0	15.0
			135	69		13.55		13.43					13.04	0.0	15.0
			135	138		13.40		13.39					12.81	0.0	15.0
		270	0		13.54		13.40					12.92	0.0	15.0	
		QPSK	1	1		13.84		13.53					13.14	0.0	15.0
			1	136		13.53		13.45					13.10	0.0	15.0
			1	271		13.50		13.47					12.97	0.0	15.0
			135	0		13.70		13.49					13.05	0.0	15.0
			135	69		13.61		13.39					13.11	0.0	15.0
			135	138		13.38		13.41					12.97	0.0	15.0
		270	0		13.56		13.42					13.09	0.0	15.0	
		16QAM	1	1		13.74		13.60					13.27	0.0	15.0
			1	136		13.52		13.63					13.25	0.0	15.0
			1	271		13.46		13.59					13.15	0.0	15.0
		64QAM	1	1		13.86		13.59					13.18	0.0	15.0
		256QAM	1	1		13.86		13.65					13.49	0.0	15.0
	CP-OFDM	QPSK	1	1		13.79		13.45					13.14	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)			MPR	Tune-up Limit			
						633334		649668		656000				662332	
						3500.01 MHz		3745.02 MHz		3840.00 MHz				3934.98 MHz	
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.74		13.75			13.30		13.22	0.0	15.0
			1	122		13.78		13.78			13.25		13.19	0.0	15.0
			1	243		13.88		13.86			13.18		13.21	0.0	15.0
			120	0		13.82		13.78			13.19		13.29	0.0	15.0
			120	62		13.84		13.80			13.24		13.29	0.0	15.0
			120	125		13.88		13.81			13.18		13.26	0.0	15.0
		243	0		13.86		13.78			13.32		13.30	0.0	15.0	
		QPSK	1	1		13.91		13.78			13.26		13.53	0.0	15.0
			1	122		13.89		13.89			13.32		13.50	0.0	15.0
			1	243		13.96		13.94			13.29		13.46	0.0	15.0
			120	0		13.77		13.76			13.41		13.26	0.0	15.0
			120	62		13.92		13.80			13.33		13.35	0.0	15.0
			120	125		13.91		13.89			13.18		13.35	0.0	15.0
		243	0		13.86		13.88			13.41		13.47	0.0	15.0	
		16QAM	1	1		14.70		13.59			13.31		13.44	0.0	15.0
			1	122		13.68		13.60			13.35		13.49	0.0	15.0
			1	243		13.63		13.63			13.27		13.47	0.0	15.0
		64QAM	1	1		13.70		13.73			13.49		13.52	0.0	15.0
		256QAM	1	1		13.97		13.91			13.46		13.60	0.0	15.0
	CP-OFDM	QPSK	1	1		13.96		14.05			13.45		13.42	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)			MPR	Tune-up Limit			
						633334		649334		656000				662666	
						3500.01 MHz		3740.01 MHz		3840.00 MHz				3939.99 MHz	
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.76		13.72			13.34		13.24	0.0	15.0
			1	108		13.84		13.79			13.32		13.24	0.0	15.0
			1	215		13.94		13.79			13.15		13.27	0.0	15.0
			108	0		13.88		13.76			13.31		13.26	0.0	15.0
			108	54		13.91		13.80			13.24		13.37	0.0	15.0
			108	109		13.89		13.80			13.19		13.31	0.0	15.0
		216	0		13.87		13.75			13.26		13.25	0.0	15.0	
		QPSK	1	1		13.93		13.81			13.25		13.47	0.0	15.0
			1	108		13.96		13.93			13.37		13.51	0.0	15.0
			1	215		14.07		13.88			13.33		13.52	0.0	15.0
			108	0		13.86		13.89			13.39		13.43	0.0	15.0
			108	54		13.93		13.82			13.28		13.28	0.0	15.0
			108	109		13.88		13.84			13.28		13.33	0.0	15.0
		216	0		13.95		13.84			13.29		13.40	0.0	15.0	
		16QAM	1	1		14.73		13.61			13.34		13.42	0.0	15.0
			1	108		13.73		13.67			13.38		13.49	0.0	15.0
			1	215		13.73		13.65			13.17		13.44	0.0	15.0
		64QAM	1	1		13.70		13.70			13.50		13.48	0.0	15.0
		256QAM	1	1		13.98		13.94			13.48		13.59	0.0	15.0
	CP-OFDM	QPSK	1	1		13.96		13.96			13.34		13.44	0.0	15.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
						633334		649000	653666					658334	663000
						3500.01 MHz		3735.00 MHz	3804.99 MHz					3875.01 MHz	3945.00 MHz
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.80		13.84	13.53			13.03	13.21	0.0	15.0
			1	94		13.79		13.83	13.52			13.11	13.20	0.0	15.0
			1	187		13.95		13.80	13.53			13.06	13.28	0.0	15.0
			90	0		13.88		13.75	13.61			13.13	13.32	0.0	15.0
			90	49		13.78		13.81	13.49			13.17	13.26	0.0	15.0
			90	99		13.90		13.78	13.67			13.09	13.25	0.0	15.0
		QPSK	180	0		13.81		13.80	13.61			13.12	13.36	0.0	15.0
			1	1		13.93		13.92	13.69			13.13	13.53	0.0	15.0
			1	94		13.97		13.91	13.62			13.15	13.49	0.0	15.0
			1	187		14.03		13.94	13.57			13.12	13.49	0.0	15.0
			90	0		13.79		13.88	13.70			13.06	13.39	0.0	15.0
			90	49		13.77		13.83	13.69			13.12	13.28	0.0	15.0
		16QAM	90	99		13.89		13.92	13.57			13.20	13.32	0.0	15.0
			180	0		13.88		13.87	13.66			13.19	13.53	0.0	15.0
			1	1		14.73		13.60	13.68			13.06	13.43	0.0	15.0
			1	94		13.62		13.66	13.82			13.16	13.46	0.0	15.0
64QAM		1	187		13.76		13.71	13.65			13.06	13.47	0.0	15.0	
		1	1		13.63		13.68	13.56			13.11	13.52	0.0	15.0	
256QAM	1	1		14.01		13.92	13.89			13.37	13.66	0.0	15.0		
	CP-OFDM	QPSK	1	1		13.88		13.97	13.72			13.26	13.38	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
						633334		648668	653556					658444	663332
						3500.01 MHz		3730.02 MHz	3803.34 MHz					3876.66 MHz	3949.98 MHz
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.74		13.75	13.54			13.04	13.26	0.0	15.0
			1	80		13.82		13.88	13.52			13.21	13.25	0.0	15.0
			1	160		13.95		13.87	13.55			13.14	13.27	0.0	15.0
			81	0		13.79		13.79	13.54			13.12	13.22	0.0	15.0
			81	40		13.82		13.81	13.60			13.20	13.27	0.0	15.0
			81	81		13.92		13.84	13.58			12.99	13.39	0.0	15.0
		QPSK	162	0		13.95		13.73	13.65			13.08	13.28	0.0	15.0
			1	1		13.90		13.86	13.67			13.05	13.53	0.0	15.0
			1	80		13.86		13.94	13.69			13.12	13.58	0.0	15.0
			1	160		13.94		13.87	13.67			13.12	13.53	0.0	15.0
			81	0		13.84		13.88	13.68			13.10	13.37	0.0	15.0
			81	40		13.86		13.84	13.62			13.22	13.30	0.0	15.0
		16QAM	81	81		13.85		13.83	13.56			13.14	13.40	0.0	15.0
			162	0		13.88		13.87	13.60			13.21	13.45	0.0	15.0
			1	1		14.74		13.54	13.60			13.07	13.45	0.0	15.0
			1	80		13.62		13.67	13.71			13.11	13.49	0.0	15.0
64QAM		1	160		13.69		13.62	13.68			13.14	13.40	0.0	15.0	
		1	1		13.75		13.77	13.57			13.26	13.52	0.0	15.0	
256QAM		1	1		14.01		13.92	13.86			13.29	13.71	0.0	15.0	
		CP-OFDM	QPSK	1	1		13.90		14.04	13.78			13.19	13.35	0.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
					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	DFT-s-OFDM	π/2 BPSK	1	1	14.08		13.79	13.72	13.48		13.27	13.11	13.16	0.0	15.0
			1	66	14.04		13.66	13.74	13.61		13.30	13.18	13.20	0.0	15.0
			1	131	14.14		13.75	13.88	13.51		13.28	13.12	13.24	0.0	15.0
			64	0	14.03		13.86	13.69	13.59		13.27	13.17	13.31	0.0	15.0
			64	34	14.09		13.80	13.83	13.60		13.17	13.09	13.37	0.0	15.0
			64	69	14.11		13.76	13.70	13.54		13.22	13.14	13.37	0.0	15.0
		QPSK	128	0	14.06		13.78	13.78	13.64		13.29	13.05	13.30	0.0	15.0
			1	1	14.15		13.84	13.81	13.70		13.26	13.15	13.50	0.0	15.0
			1	66	14.03		13.77	13.92	13.70		13.35	13.18	13.56	0.0	15.0
			1	131	14.13		13.87	13.89	13.63		13.28	13.08	13.51	0.0	15.0
			64	0	14.14		13.93	13.82	13.64		13.42	13.16	13.42	0.0	15.0
			64	34	14.08		13.77	13.84	13.56		13.43	13.14	13.37	0.0	15.0
		16QAM	64	69	14.15		13.70	13.90	13.56		13.22	13.13	13.30	0.0	15.0
			128	0	14.08		13.74	13.81	13.65		13.32	13.07	13.43	0.0	15.0
			1	1	14.24		14.03	13.62	13.67		13.28	13.07	13.41	0.0	15.0
			1	66	14.25		13.95	13.69	13.79		13.38	13.08	13.47	0.0	15.0
64QAM		1	131	14.22		13.95	13.68	13.66		13.28	13.10	13.48	0.0	15.0	
		1	1	14.20		13.82	13.66	13.60		13.50	13.21	13.43	0.0	15.0	
256QAM		1	1	14.37		14.20	13.98	13.88		13.50	13.33	13.61	0.0	15.0	
		CP-OFDM	QPSK	1	1	14.24		13.94	13.95	13.78		13.37	13.16	13.36	0.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					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	DFT-s-OFDM	$\pi/2$ BPSK	1	1	14.07		13.83	13.76	13.56	13.30	13.31	13.11	13.20	0.0	15.0
			1	52	14.05		13.70	13.82	13.54	13.41	13.28	13.20	13.17	0.0	15.0
			1	104	14.13		13.78	13.85	13.55	13.42	13.24	13.10	13.33	0.0	15.0
			50	0	14.12		13.91	13.75	13.63	13.30	13.24	13.09	13.27	0.0	15.0
			50	28	14.06		13.86	13.91	13.57	13.34	13.19	13.11	13.34	0.0	15.0
			50	56	14.18		13.73	13.78	13.56	13.37	13.22	13.01	13.34	0.0	15.0
		QPSK	100	0	14.03		13.79	13.87	13.59	13.46	13.31	13.17	13.30	0.0	15.0
			1	1	14.06		13.81	13.92	13.70	13.48	13.28	13.18	13.50	0.0	15.0
			1	52	14.02		13.78	13.93	13.72	13.51	13.43	13.16	13.54	0.0	15.0
			1	104	14.15		13.91	13.79	13.63	13.49	13.31	13.15	13.57	0.0	15.0
			50	0	14.05		13.97	13.93	13.66	13.47	13.37	13.19	13.31	0.0	15.0
			50	28	14.10		13.71	13.80	13.61	13.48	13.42	13.16	13.36	0.0	15.0
			50	56	14.14		13.72	13.88	13.58	13.45	13.28	13.17	13.42	0.0	15.0
		16QAM	100	0	14.21		13.79	13.83	13.67	13.53	13.29	13.26	13.36	0.0	15.0
			1	1	14.27		14.02	13.54	13.68	13.25	13.32	13.14	13.43	0.0	15.0
			1	52	14.23		13.94	13.69	13.70	13.42	13.32	13.08	13.41	0.0	15.0
			1	104	14.33		13.85	13.65	13.69	13.36	13.33	13.00	13.46	0.0	15.0
		64QAM	1	1	14.21		13.78	13.70	13.63	13.59	13.57	13.20	13.52	0.0	15.0
		256QAM	1	1	14.45		14.30	13.96	13.84	13.56	13.48	13.33	13.65	0.0	15.0
	CP-OFDM	QPSK	1	1	14.19		13.95	13.92	13.69	13.45	13.43	13.36	13.44	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					631000	633334	635666	647668	651000	654334	657666	661000	664332		
					3465.00 MHz	3500.01 MHz	3534.99 MHz	3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.96	13.72	13.79	13.76	13.62	13.35	13.26	13.11	13.21	0.0	15.0
			1	39	14.00	13.83	13.70	13.82	13.58	13.43	13.22	13.23	13.18	0.0	15.0
			1	76	14.16	13.87	13.88	13.85	13.57	13.42	13.21	13.07	13.30	0.0	15.0
			36	0	14.06	13.93	13.93	13.76	13.58	13.31	13.25	13.07	13.26	0.0	15.0
			36	21	14.03	13.86	13.85	13.86	13.57	13.50	13.21	13.09	13.34	0.0	15.0
			36	42	14.10	13.85	13.82	13.81	13.61	13.28	13.22	13.01	13.31	0.0	15.0
		QPSK	75	0	14.08	13.87	13.77	13.82	13.61	13.47	13.19	13.03	13.30	0.0	15.0
			1	1	14.12	13.93	13.83	13.90	13.73	13.46	13.32	13.07	13.52	0.0	15.0
			1	39	14.02	13.96	13.83	13.92	13.68	13.52	13.38	13.08	13.50	0.0	15.0
			1	76	14.20	13.92	13.89	13.87	13.64	13.56	13.38	13.14	13.54	0.0	15.0
			36	0	14.05	13.86	13.90	13.76	13.68	13.45	13.35	13.18	13.26	0.0	15.0
			36	21	14.15	13.88	13.85	13.82	13.58	13.57	13.39	13.21	13.29	0.0	15.0
		16QAM	36	42	14.13	13.91	13.82	13.79	13.58	13.53	13.27	13.13	13.42	0.0	15.0
			75	0	14.16	13.85	13.86	13.76	13.61	13.46	13.40	13.15	13.50	0.0	15.0
			1	1	14.28	14.76	13.99	13.57	13.69	13.28	13.32	13.10	13.37	0.0	15.0
			1	39	14.18	13.78	13.85	13.61	13.63	13.45	13.35	13.20	13.50	0.0	15.0
		64QAM	1	76	14.22	13.65	13.92	13.72	13.68	13.33	13.22	13.08	13.45	0.0	15.0
			1	1	14.19	13.72	13.83	13.68	13.53	13.55	13.44	13.20	13.52	0.0	15.0
		256QAM	1	1	14.40	14.03	14.37	13.94	13.95	13.56	13.57	13.29	13.59	0.0	15.0
	CP-OFDM	QPSK	1	1	14.24	13.81	13.89	13.91	13.73	13.51	13.43	13.26	13.46	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630834	633334	635832	647500	650900	654300	657700	661100	664500		
					3462.51 MHz	3500.01 MHz	3537.48 MHz	3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	14.09	13.85	13.73	13.78	13.50	13.35	13.34	13.13	13.18	0.0	15.0
			1	32	13.99	13.78	13.69	13.78	13.57	13.42	13.17	13.07	13.28	0.0	15.0
			1	63	14.14	13.83	13.71	13.85	13.52	13.46	13.22	13.20	13.23	0.0	15.0
			32	0	14.07	13.87	13.94	13.76	13.58	13.35	13.23	13.07	13.27	0.0	15.0
			32	16	13.98	13.80	13.84	13.78	13.59	13.49	13.28	13.14	13.26	0.0	15.0
			32	33	14.08	13.90	13.79	13.76	13.62	13.33	13.14	13.14	13.30	0.0	15.0
		QPSK	64	0	14.04	13.99	13.74	13.84	13.59	13.41	13.31	13.09	13.26	0.0	15.0
			1	1	14.10	13.93	13.94	13.87	13.66	13.49	13.30	13.03	13.50	0.0	15.0
			1	32	14.04	13.88	13.81	13.94	13.60	13.49	13.42	13.15	13.49	0.0	15.0
			1	63	14.15	14.04	13.88	13.93	13.65	13.43	13.31	13.10	13.52	0.0	15.0
			32	0	14.08	13.84	13.94	13.91	13.65	13.53	13.35	13.12	13.31	0.0	15.0
			32	16	14.11	13.88	13.82	13.78	13.66	13.50	13.37	13.10	13.32	0.0	15.0
		16QAM	32	33	14.16	13.84	13.80	13.94	13.69	13.47	13.27	13.21	13.33	0.0	15.0
			64	0	14.12	13.92	13.82	13.88	13.74	13.55	13.26	13.15	13.38	0.0	15.0
			1	1	14.16	14.67	13.94	13.61	13.70	13.28	13.32	13.06	13.49	0.0	15.0
			1	32	14.15	13.65	13.96	13.62	13.76	13.41	13.30	13.03	13.43	0.0	15.0
		64QAM	1	63	14.19	13.74	14.00	13.71	13.69	13.37	13.36	13.13	13.40	0.0	15.0
			1	1	14.23	13.65	13.78	13.74	13.64	13.63	13.58	13.27	13.48	0.0	15.0
		256QAM	1	1	14.25	14.02	14.33	13.91	13.84	13.52	13.56	13.34	13.59	0.0	15.0
	CP-OFDM	QPSK	1	1	14.22	13.89	13.97	14.04	13.84	13.50	13.36	13.26	13.43	0.0	15.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630668	633334	636000	647334	650800	654266	657734	661200	664666		
					3460.02 MHz	3500.01 MHz	3540.00 MHz	3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.98	13.70	13.76	13.79	13.54	13.33	13.25	13.05	13.29	0.0	15.0
			1	25	14.01	13.83	13.62	13.87	13.63	13.36	13.29	13.15	13.21	0.0	15.0
			1	49	14.16	13.92	13.76	13.85	13.50	13.34	13.28	13.11	13.26	0.0	15.0
			25	0	14.05	13.86	13.82	13.88	13.55	13.30	13.32	13.04	13.27	0.0	15.0
			25	13	14.13	13.80	13.84	13.90	13.58	13.39	13.22	13.09	13.26	0.0	15.0
			25	26	14.11	13.85	13.84	13.87	13.68	13.33	13.22	13.03	13.26	0.0	15.0
		QPSK	50	0	14.10	13.92	13.80	13.76	13.59	13.42	13.26	13.04	13.28	0.0	15.0
			1	1	14.11	14.00	13.87	13.87	13.65	13.54	13.30	13.12	13.49	0.0	15.0
			1	25	14.05	13.95	13.71	13.97	13.71	13.51	13.32	13.08	13.46	0.0	15.0
			1	49	14.21	13.89	13.78	13.89	13.59	13.49	13.43	13.12	13.53	0.0	15.0
			25	0	14.12	13.85	13.92	13.81	13.69	13.45	13.39	13.14	13.40	0.0	15.0
			25	13	14.10	13.81	13.74	13.83	13.60	13.46	13.32	13.13	13.38	0.0	15.0
			25	26	14.10	13.89	13.73	13.87	13.57	13.47	13.26	13.16	13.44	0.0	15.0
		16QAM	50	0	14.13	13.87	13.85	13.92	13.74	13.51	13.36	13.14	13.40	0.0	15.0
			1	1	14.20	14.75	14.06	13.63	13.66	13.25	13.34	13.12	13.39	0.0	15.0
			1	25	14.11	13.71	13.93	13.71	13.78	13.37	13.37	13.09	13.44	0.0	15.0
		64QAM	1	49	14.20	13.76	13.93	13.72	13.66	13.31	13.33	13.07	13.42	0.0	15.0
			1	1	14.21	13.66	13.79	13.71	13.53	13.56	13.56	13.20	13.50	0.0	15.0
	CP-OFDM	256QAM	1	1	14.33	14.11	14.40	13.98	13.92	13.53	13.47	13.29	13.65	0.0	15.0
		QPSK	1	1	14.20	13.96	13.89	13.88	13.77	13.53	13.49	13.29	13.41	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630500	633334	636166	647168	650700	654234	657766	661300	664832		
					3457.50 MHz	3500.01 MHz	3542.49 MHz	3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	14.05	13.88	13.84	13.77	13.52	13.28	13.21	13.10	13.20	0.0	15.0
			1	18	14.08	13.73	13.67	13.81	13.55	13.44	13.19	13.08	13.18	0.0	15.0
			1	36	14.08	13.89	13.71	13.80	13.52	13.45	13.22	13.04	13.22	0.0	15.0
			18	0	14.12	13.87	13.94	13.78	13.59	13.40	13.19	13.08	13.32	0.0	15.0
			18	10	14.02	13.78	13.71	13.76	13.59	13.38	13.17	13.12	13.26	0.0	15.0
			18	20	14.09	13.95	13.86	13.78	13.61	13.40	13.23	13.04	13.27	0.0	15.0
		QPSK	36	0	14.03	13.87	13.79	13.75	13.64	13.47	13.24	13.14	13.27	0.0	15.0
			1	1	14.19	13.89	13.90	13.78	13.63	13.50	13.29	13.05	13.54	0.0	15.0
			1	18	14.03	13.91	13.79	13.92	13.71	13.52	13.32	13.16	13.56	0.0	15.0
			1	36	14.06	13.96	13.90	13.91	13.58	13.47	13.30	13.03	13.49	0.0	15.0
			18	0	14.00	13.82	13.88	13.76	13.60	13.52	13.31	13.09	13.31	0.0	15.0
			18	10	14.08	13.85	13.81	13.75	13.72	13.48	13.35	13.18	13.35	0.0	15.0
		16QAM	18	20	14.15	13.91	13.71	13.87	13.63	13.48	13.26	13.18	13.38	0.0	15.0
			36	0	14.20	13.95	13.80	13.84	13.62	13.40	13.35	13.27	13.41	0.0	15.0
			1	1	14.25	14.72	13.98	13.64	13.60	13.28	13.34	13.14	13.46	0.0	15.0
		64QAM	1	18	14.09	13.77	13.88	13.70	13.80	13.43	13.38	13.08	13.44	0.0	15.0
			1	36	14.30	13.74	13.94	13.62	13.72	13.36	13.19	13.05	13.39	0.0	15.0
	CP-OFDM	256QAM	1	1	14.24	13.68	13.85	13.69	13.53	13.64	13.52	13.11	13.52	0.0	15.0
		QPSK	1	1	14.27	13.96	14.30	13.92	13.95	13.56	13.50	13.33	13.62	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					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	DFT-s-OFDM	$\pi/2$ BPSK	1	1	14.02	13.73	13.84	13.76	13.52	13.38	13.26	13.06	13.27	0.0	15.0
			1	12	14.03	13.75	13.69	13.81	13.55	13.42	13.21	13.20	13.23	0.0	15.0
			1	22	14.14	13.86	13.75	13.86	13.58	13.37	13.20	13.08	13.30	0.0	15.0
			12	0	14.09	13.85	13.88	13.78	13.53	13.40	13.26	13.12	13.25	0.0	15.0
			12	6	14.10	13.86	13.76	13.78	13.51	13.39	13.26	13.08	13.29	0.0	15.0
			12	12	14.09	13.88	13.77	13.80	13.56	13.33	13.26	13.07	13.35	0.0	15.0
		QPSK	24	0	14.05	13.87	13.74	13.82	13.59	13.51	13.26	13.09	13.28	0.0	15.0
			1	1	14.12	13.89	13.90	13.88	13.75	13.44	13.27	13.15	13.50	0.0	15.0
			1	12	14.12	13.90	13.80	13.98	13.73	13.51	13.35	13.17	13.53	0.0	15.0
			1	22	14.17	14.02	13.83	13.92	13.67	13.48	13.35	13.07	13.51	0.0	15.0
			12	0	14.06	13.90	13.92	13.82	13.66	13.46	13.37	13.14	13.36	0.0	15.0
			12	6	14.08	13.81	13.75	13.86	13.65	13.52	13.33	13.12	13.37	0.0	15.0
		16QAM	12	12	14.14	13.84	13.73	13.86	13.60	13.52	13.30	13.21	13.43	0.0	15.0
			24	0	14.12	13.89	13.79	13.82	13.64	13.52	13.29	13.22	13.46	0.0	15.0
			1	1	14.25	14.73	14.06	13.66	13.65	13.28	13.35	13.11	13.48	0.0	15.0
		64QAM	1	12	14.20	13.65	13.87	13.63	13.73	13.31	13.39	13.17	13.44	0.0	15.0
			1	22	14.21	13.75	13.95	13.67	13.72	13.30	13.31	13.10	13.41	0.0	15.0
	CP-OFDM	256QAM	1	1	14.19	13.66	13.82	13.71	13.59	13.59	13.56	13.16	13.51	0.0	15.0
		QPSK	1	1	14.39	14.03	14.33	13.91	13.90	13.51	13.52	13.35	13.64	0.0	15.0
		QPSK	1	1	14.23	13.89	13.97	13.95	13.72	13.46	13.37	13.23	13.43	0.0	15.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)							
					DSI = 2							
					Measured Pwr (dBm)				Measured Pwr (dBm)			
						633334		650000			662000	
					3500.01 MHz		3750.00 MHz			3930.00 MHz	MPR	Tune-up Limit
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	12.46		11.94			11.79	0.0	13.5
			1	136	12.17		12.06			11.60	0.0	13.5
			1	271	12.07		12.08			11.52	0.0	13.5
			135	0	12.24		12.12			11.61	0.0	13.5
			135	69	12.12		12.01			11.63	0.0	13.5
			135	138	12.00		11.94			11.44	0.0	13.5
			270	0	12.11		12.02			11.57	0.0	13.5
		QPSK	1	1	12.41		12.16			11.72	0.0	13.5
			1	136	12.11		12.06			11.67	0.0	13.5
			1	271	12.13		12.09			11.54	0.0	13.5
			135	0	12.27		12.14			11.65	0.0	13.5
			135	69	12.17		11.97			11.67	0.0	13.5
			135	138	12.03		12.01			11.53	0.0	13.5
			270	0	12.15		12.03			11.68	0.0	13.5
		16QAM	1	1	12.32		12.15			11.84	0.0	13.5
			1	136	12.11		12.22			11.80	0.0	13.5
		64QAM	1	271	12.02		12.14			11.74	0.0	13.5
			1	1	12.51		12.20			11.73	0.0	13.5
		256QAM	1	1	12.45		12.24			12.12	0.0	13.5
	CP-OFDM	QPSK	1	1	12.41		12.01			11.79	0.0	13.5
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	12.29		12.30			11.86	0.0	13.5
			1	122	12.33		12.42			11.90	0.0	13.5
			1	243	12.48		12.49			11.75	0.0	13.5
			120	0	12.44		12.33			11.78	0.0	13.5
			120	62	12.43		12.42			11.89	0.0	13.5
			120	125	12.45		12.44			11.77	0.0	13.5
			243	0	12.45		12.42			11.94	0.0	13.5
		QPSK	1	1	12.56		12.40			11.84	0.0	13.5
			1	122	12.51		12.51			11.92	0.0	13.5
			1	243	12.55		12.58			11.93	0.0	13.5
			120	0	12.39		12.36			12.00	0.0	13.5
			120	62	12.51		12.43			11.94	0.0	13.5
			120	125	12.46		12.46			11.80	0.0	13.5
			243	0	12.42		12.53			11.99	0.0	13.5
		16QAM	1	1	13.32		12.15			11.94	0.0	13.5
			1	122	12.27		12.25			11.97	0.0	13.5
		64QAM	1	243	12.21		12.26			11.90	0.0	13.5
			1	1	12.28		12.36			12.04	0.0	13.5
		256QAM	1	1	12.61		12.49			12.09	0.0	13.5
	CP-OFDM	QPSK	1	1	12.54		12.60			12.06	0.0	13.5
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	12.40		12.30			11.96	0.0	13.5
			1	108	12.41		12.34			11.87	0.0	13.5
			1	215	12.59		12.42			11.74	0.0	13.5
			108	0	12.45		12.39			11.88	0.0	13.5
			108	54	12.52		12.35			11.79	0.0	13.5
			108	109	12.47		12.40			11.79	0.0	13.5
			216	0	12.43		12.31			11.88	0.0	13.5
		QPSK	1	1	12.52		12.42			11.88	0.0	13.5
			1	108	12.51		12.50			12.02	0.0	13.5
			1	215	12.68		12.43			11.95	0.0	13.5
			108	0	12.50		12.48			12.00	0.0	13.5
			108	54	12.54		12.37			11.91	0.0	13.5
			108	109	12.49		12.43			11.93	0.0	13.5
			216	0	12.60		12.41			11.84	0.0	13.5
		16QAM	1	1	13.38		12.21			11.94	0.0	13.5
			1	108	12.31		12.29			11.95	0.0	13.5
		64QAM	1	215	12.32		12.30			11.81	0.0	13.5
			1	1	12.33		12.34			12.14	0.0	13.5
		256QAM	1	1	12.61		12.49			12.10	0.0	13.5
	CP-OFDM	QPSK	1	1	12.57		12.56			11.94	0.0	13.5

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
						633334		649000	653666					658334	663000
						3500.01 MHz		3735.00 MHz	3804.99 MHz					3875.01 MHz	3945.00 MHz
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1		12.45		12.40	12.17			11.63	11.79	0.0	13.5
			1	94		12.40		12.48	12.08			11.68	11.85	0.0	13.5
			1	187		12.51		12.41	12.13			11.64	11.88	0.0	13.5
			90	0		12.51		12.36	12.19			11.68	11.88	0.0	13.5
			90	49		12.35		12.38	12.05			11.79	11.86	0.0	13.5
			90	99		12.45		12.35	12.23			11.70	11.85	0.0	13.5
		QPSK	180	0		12.36		12.38	12.21			11.73	12.00	0.0	13.5
			1	1		12.52		12.54	12.33			11.73	12.10	0.0	13.5
			1	94		12.60		12.51	12.26			11.79	12.09	0.0	13.5
			1	187		12.59		12.54	12.22			11.76	12.11	0.0	13.5
			90	0		12.34		12.44	12.31			11.65	12.00	0.0	13.5
			90	49		12.34		12.42	12.25			11.76	11.83	0.0	13.5
		16QAM	90	99		12.52		12.57	12.22			11.76	11.87	0.0	13.5
			180	0		12.43		12.43	12.21			11.79	12.14	0.0	13.5
			1	1		13.38		12.25	12.27			11.62	12.00	0.0	13.5
			1	94		12.26		12.29	12.43			11.72	12.10	0.0	13.5
			1	187		12.33		12.35	12.30			11.67	12.09	0.0	13.5
			64QAM	1	1		12.24		12.30	12.19			11.69	12.07	0.0
CP-OFDM	256QAM	1	1		12.62		12.50	12.51			11.95	12.27	0.0	13.5	
	QPSK	1	1		12.51		12.56	12.33			11.81	12.01	0.0	13.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
					633334		648668	653556			658444			663332	
					3500.01 MHz		3730.02 MHz	3803.34 MHz			3876.66 MHz			3949.98 MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1		12.37		12.34	12.18			11.59	11.86	0.0	13.5
			1	80		12.42		12.53	12.15			11.83	11.87	0.0	13.5
			1	160		12.56		12.45	12.19			11.75	11.88	0.0	13.5
			81	0		12.42		12.35	12.13			11.76	11.83	0.0	13.5
			81	40		12.47		12.39	12.17			11.76	11.87	0.0	13.5
			81	81		12.54		12.46	12.17			11.61	11.97	0.0	13.5
		QPSK	162	0		12.50		12.30	12.20			11.72	11.88	0.0	13.5
			1	1		12.50		12.45	12.22			11.61	12.14	0.0	13.5
			1	80		12.43		12.50	12.27			11.69	12.17	0.0	13.5
			1	160		12.54		12.47	12.26			11.70	12.16	0.0	13.5
			81	0		12.48		12.53	12.25			11.65	11.94	0.0	13.5
			81	40		12.46		12.39	12.22			11.81	11.86	0.0	13.5
		16QAM	81	81		12.40		12.46	12.12			11.75	11.95	0.0	13.5
			162	0		12.47		12.46	12.19			11.86	12.00	0.0	13.5
			1	1		13.35		12.10	12.25			11.69	12.08	0.0	13.5
			1	80		12.17		12.28	12.35			11.68	12.05	0.0	13.5
			1	160		12.31		12.20	12.29			11.72	12.01	0.0	13.5
			64QAM	1	1		12.35		12.32	12.12			11.85	12.10	0.0
CP-OFDM	256QAM	1	1		12.63		12.56	12.43			11.94	12.32	0.0	13.5	
	QPSK	1	1		12.55		12.69	12.33			11.80	11.92	0.0	13.5	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)				MPR	Tune-up Limit		
					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	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.71		12.42	12.31	12.07		11.87	11.73	11.73	0.0	13.5
			1	66	12.64		12.30	12.37	12.16		11.93	11.79	11.77	0.0	13.5
			1	131	12.74		12.34	12.50	12.16		11.86	11.73	11.88	0.0	13.5
			64	0	12.68		12.45	12.26	12.17		11.90	11.78	11.90	0.0	13.5
			64	34	12.65		12.36	12.46	12.15		11.80	11.71	11.92	0.0	13.5
			64	69	12.70		12.31	12.29	12.17		11.81	11.72	11.95	0.0	13.5
		QPSK	128	0	12.68		12.37	12.36	12.24		11.87	11.60	11.90	0.0	13.5
			1	1	12.75		12.48	12.41	12.28		11.84	11.80	12.11	0.0	13.5
			1	66	12.68		12.35	12.48	12.26		11.99	11.76	12.19	0.0	13.5
			1	131	12.76		12.49	12.51	12.27		11.85	11.68	12.14	0.0	13.5
			64	0	12.73		12.53	12.43	12.28		12.00	11.76	12.06	0.0	13.5
			64	34	12.68		12.42	12.49	12.17		12.02	11.77	11.93	0.0	13.5
		16QAM	64	69	12.75		12.34	12.54	12.13		11.84	11.75	11.93	0.0	13.5
			128	0	12.66		12.39	12.36	12.22		11.92	11.72	12.01	0.0	13.5
			1	1	12.80		12.65	12.19	12.31		11.85	11.72	11.97	0.0	13.5
			1	66	12.88		12.56	12.25	12.44		11.95	11.73	12.12	0.0	13.5
			1	131	12.81		12.59	12.32	12.30		11.90	11.68	12.06	0.0	13.5
			64QAM	1	1	12.75		12.37	12.29	12.18		12.10	11.85	12.08	0.0
CP-OFDM	256QAM	1	1	12.97		12.83	12.56	12.45		12.15	11.97	12.22	0.0	13.5	
	QPSK	1	1	12.87		12.51	12.51	12.34		11.94	11.80	11.97	0.0	13.5	

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					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	DFT-s-OFDM	π/2 BPSK	1	1	12.65		12.46	12.40	12.15	11.95	11.88	11.68	11.85	0.0	13.5
			1	52	12.65		12.33	12.40	12.14	11.97	11.84	11.82	11.73	0.0	13.5
			1	104	12.73		12.42	12.46	12.11	12.04	11.87	11.67	11.89	0.0	13.5
			50	0	12.72		12.54	12.31	12.28	11.85	11.86	11.67	11.83	0.0	13.5
			50	28	12.67		12.41	12.53	12.16	11.97	11.80	11.75	11.94	0.0	13.5
			50	56	12.82		12.36	12.43	12.19	12.00	11.82	11.66	11.89	0.0	13.5
		QPSK	100	0	12.68		12.43	12.44	12.21	12.06	11.94	11.76	11.94	0.0	13.5
			1	1	12.64		12.39	12.53	12.26	12.03	11.85	11.76	12.12	0.0	13.5
			1	52	12.57		12.38	12.51	12.31	12.15	12.00	11.71	12.14	0.0	13.5
			1	104	12.76		12.53	12.40	12.27	12.10	11.96	11.72	12.14	0.0	13.5
			50	0	12.61		12.57	12.57	12.30	12.04	11.94	11.79	11.94	0.0	13.5
			50	28	12.69		12.35	12.41	12.23	12.13	11.99	11.76	11.92	0.0	13.5
			50	56	12.76		12.34	12.45	12.23	12.01	11.92	11.80	12.03	0.0	13.5
		16QAM	100	0	12.76		12.39	12.38	12.23	12.08	11.94	11.91	12.01	0.0	13.5
			1	1	12.83		12.61	12.17	12.33	11.82	11.95	11.71	11.98	0.0	13.5
			1	52	12.83		12.52	12.28	12.30	11.97	11.90	11.72	12.06	0.0	13.5
		64QAM	1	104	12.94		12.44	12.24	12.27	11.91	11.95	11.55	12.05	0.0	13.5
			1	1	12.78		12.39	12.27	12.26	12.20	12.12	11.81	12.09	0.0	13.5
		256QAM	1	1	13.00		12.94	12.55	12.48	12.14	12.06	11.95	12.22	0.0	13.5
	CP-OFDM	QPSK	1	1	12.74		12.54	12.51	12.33	12.01	12.07	12.01	12.07	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					631000	633334	635666	647668	651000	654334	657666	661000	664332		
					3465.00 MHz	3500.01 MHz	3534.99 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	12.61	12.30	12.37	12.36	12.27	11.93	11.91	11.75	11.85	0.0	13.5
			1	39	12.58	12.48	12.33	12.43	12.15	12.02	11.81	11.79	11.76	0.0	13.5
			1	76	12.81	12.46	12.43	12.43	12.22	12.03	11.85	11.64	11.95	0.0	13.5
			36	0	12.67	12.48	12.52	12.32	12.15	11.96	11.80	11.66	11.81	0.0	13.5
			36	21	12.59	12.48	12.40	12.46	12.21	12.05	11.78	11.71	11.94	0.0	13.5
			36	42	12.71	12.43	12.46	12.39	12.25	11.88	11.79	11.61	11.96	0.0	13.5
			75	0	12.63	12.43	12.33	12.44	12.20	12.07	11.79	11.67	11.94	0.0	13.5
		QPSK	1	1	12.73	12.50	12.48	12.51	12.38	12.11	11.97	11.72	12.16	0.0	13.5
			1	39	12.61	12.55	12.48	12.55	12.29	12.15	11.96	11.63	12.09	0.0	13.5
			1	76	12.75	12.48	12.54	12.42	12.26	12.11	11.94	11.78	12.09	0.0	13.5
			36	0	12.65	12.47	12.54	12.39	12.30	12.08	11.92	11.78	11.90	0.0	13.5
			36	21	12.78	12.43	12.44	12.38	12.22	12.22	12.00	11.83	11.93	0.0	13.5
			36	42	12.70	12.51	12.43	12.35	12.15	12.10	11.88	11.74	11.98	0.0	13.5
		16QAM	75	0	12.76	12.46	12.48	12.39	12.26	12.04	11.99	11.79	12.10	0.0	13.5
			1	1	12.84	13.41	12.63	12.12	12.25	11.85	11.87	11.67	12.00	0.0	13.5
			1	39	12.76	12.39	12.42	12.20	12.21	12.06	12.00	11.77	12.08	0.0	13.5
		64QAM	1	76	12.80	12.24	12.55	12.37	12.33	11.94	11.87	11.73	12.00	0.0	13.5
			1	1	12.78	12.27	12.47	12.32	12.11	12.14	12.02	11.85	12.16	0.0	13.5
		256QAM	1	1	12.97	12.59	12.95	12.53	12.50	12.21	12.15	11.89	12.21	0.0	13.5
	CP-OFDM	QPSK	1	1	12.79	12.43	12.47	12.48	12.38	12.07	11.99	11.88	12.10	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630834	633334	635832	647500	650900	654300	657700	661100	664500		
					3462.51 MHz	3500.01 MHz	3537.48 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	12.73	12.44	12.29	12.39	12.10	11.95	11.90	11.71	11.79	0.0	13.5
			1	32	12.60	12.40	12.29	12.42	12.19	12.05	11.78	11.66	11.83	0.0	13.5
			1	63	12.76	12.44	12.26	12.47	12.17	12.02	11.83	11.81	11.85	0.0	13.5
			32	0	12.65	12.46	12.54	12.37	12.22	11.91	11.78	11.69	11.91	0.0	13.5
			32	16	12.53	12.36	12.47	12.38	12.18	12.11	11.93	11.79	11.88	0.0	13.5
			32	33	12.72	12.50	12.43	12.31	12.25	11.97	11.78	11.70	11.90	0.0	13.5
		QPSK	64	0	12.62	12.55	12.37	12.49	12.14	11.96	11.95	11.64	11.82	0.0	13.5
			1	1	12.68	12.55	12.49	12.42	12.26	12.08	11.91	11.60	12.09	0.0	13.5
			1	32	12.65	12.50	12.43	12.59	12.15	12.07	11.98	11.77	12.08	0.0	13.5
			1	63	12.77	12.63	12.44	12.49	12.25	11.98	11.95	11.74	12.17	0.0	13.5
			32	0	12.70	12.42	12.52	12.56	12.21	12.13	11.90	11.68	11.92	0.0	13.5
			32	16	12.75	12.43	12.46	12.40	12.26	12.13	11.97	11.67	11.93	0.0	13.5
		16QAM	32	33	12.77	12.43	12.45	12.59	12.25	12.05	11.88	11.76	11.93	0.0	13.5
			64	0	12.69	12.49	12.37	12.48	12.30	12.18	11.84	11.74	12.00	0.0	13.5
			1	1	12.77	13.26	12.50	12.24	12.32	11.93	11.94	11.67	12.11	0.0	13.5
		64QAM	1	32	12.80	12.23	12.59	12.27	12.32	12.06	11.88	11.63	12.01	0.0	13.5
			1	63	12.80	12.35	12.61	12.36	12.30	11.92	11.95	11.76	11.99	0.0	13.5
		256QAM	1	1	12.87	12.27	12.37	12.30	12.21	12.24	12.16	11.87	12.10	0.0	13.5
		256QAM	1	1	12.88	12.60	12.89	12.54	12.46	12.13	12.11	11.91	12.22	0.0	13.5
	CP-OFDM	QPSK	1	1	12.84	12.53	12.56	12.67	12.43	12.14	12.01	11.88	11.99	0.0	13.5

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (Voice/Data/SRS1) (Sub.3) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630668	633334	636000	647334	650800	654266	657734	661200	664666		
					3460.02 MHz	3500.01 MHz	3540.00 MHz	3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.60	12.31	12.37	12.37	12.13	11.89	11.84	11.70	11.94	0.0	13.5
			1	25	12.61	12.40	12.20	12.45	12.24	11.98	11.90	11.75	11.83	0.0	13.5
			1	49	12.80	12.57	12.41	12.49	12.10	11.96	11.93	11.75	11.85	0.0	13.5
			25	0	12.61	12.44	12.43	12.44	12.15	11.86	11.97	11.68	11.91	0.0	13.5
			25	13	12.70	12.38	12.47	12.54	12.14	11.96	11.81	11.74	11.87	0.0	13.5
			25	26	12.74	12.43	12.42	12.42	12.23	11.92	11.83	11.66	11.90	0.0	13.5
		QPSK	50	0	12.70	12.51	12.42	12.40	12.24	12.04	11.83	11.69	11.91	0.0	13.5
			1	1	12.72	12.59	12.49	12.42	12.22	12.13	11.94	11.70	12.06	0.0	13.5
			1	25	12.60	12.57	12.32	12.53	12.35	12.11	11.97	11.63	12.01	0.0	13.5
			1	49	12.76	12.51	12.43	12.46	12.18	12.06	12.00	11.77	12.09	0.0	13.5
			25	0	12.71	12.44	12.53	12.37	12.24	12.05	12.01	11.74	11.97	0.0	13.5
			25	13	12.67	12.42	12.29	12.45	12.25	12.07	11.96	11.78	12.01	0.0	13.5
			25	26	12.74	12.45	12.38	12.50	12.13	12.12	11.81	11.79	11.99	0.0	13.5
		16QAM	50	0	12.73	12.52	12.43	12.50	12.36	12.12	11.98	11.75	11.98	0.0	13.5
			1	1	12.75	13.40	12.67	12.21	12.23	11.86	11.98	11.71	11.97	0.0	13.5
			1	25	12.75	12.30	12.58	12.30	12.33	12.01	11.99	11.74	12.08	0.0	13.5
		64QAM	1	49	12.82	12.34	12.56	12.36	12.31	11.91	11.98	11.65	11.98	0.0	13.5
			1	1	12.78	12.26	12.34	12.31	12.09	12.16	12.14	11.81	12.05	0.0	13.5
		256QAM	1	1	12.94	12.75	13.05	12.56	12.49	12.17	12.08	11.93	12.22	0.0	13.5
	CP-OFDM	QPSK	1	1	12.75	12.53	12.51	12.43	12.37	12.13	12.05	11.89	12.01	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					630500	633334	636166	647168	650700	654234	657766	661300	664832		
					3457.50 MHz	3500.01 MHz	3542.49 MHz	3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.69	12.52	12.46	12.32	12.10	11.89	11.78	11.68	11.83	0.0	13.5
			1	18	12.73	12.36	12.26	12.46	12.10	12.07	11.75	11.67	11.77	0.0	13.5
			1	36	12.70	12.45	12.34	12.44	12.08	12.10	11.84	11.59	11.83	0.0	13.5
			18	0	12.68	12.51	12.56	12.43	12.14	11.96	11.79	11.71	11.92	0.0	13.5
			18	10	12.62	12.38	12.26	12.31	12.23	11.94	11.78	11.69	11.89	0.0	13.5
			18	20	12.65	12.58	12.45	12.33	12.25	12.04	11.85	11.59	11.85	0.0	13.5
		QPSK	36	0	12.61	12.45	12.39	12.33	12.26	12.03	11.88	11.74	11.89	0.0	13.5
			1	1	12.79	12.45	12.53	12.42	12.23	12.12	11.93	11.63	12.11	0.0	13.5
			1	18	12.67	12.50	12.42	12.55	12.31	12.07	11.87	11.76	12.12	0.0	13.5
			1	36	12.68	12.55	12.51	12.47	12.18	12.02	11.95	11.67	12.11	0.0	13.5
			18	0	12.60	12.44	12.52	12.31	12.22	12.07	11.95	11.67	11.88	0.0	13.5
			18	10	12.67	12.41	12.37	12.38	12.35	12.05	11.90	11.79	11.95	0.0	13.5
		16QAM	18	20	12.75	12.49	12.33	12.46	12.21	12.10	11.83	11.78	11.96	0.0	13.5
			36	0	12.75	12.58	12.43	12.43	12.25	12.00	11.93	11.83	11.97	0.0	13.5
			1	1	12.90	13.34	12.63	12.26	12.17	11.86	11.98	11.73	12.06	0.0	13.5
		64QAM	1	18	12.72	12.32	12.44	12.31	12.36	11.98	11.93	11.69	12.09	0.0	13.5
			1	36	12.93	12.32	12.57	12.27	12.28	11.94	11.77	11.64	12.02	0.0	13.5
		256QAM	1	1	12.83	12.31	12.49	12.29	12.08	12.29	12.16	11.75	12.17	0.0	13.5
		256QAM	1	1	12.92	12.55	12.89	12.51	12.58	12.13	12.05	11.96	12.22	0.0	13.5
	CP-OFDM	QPSK	1	1	12.77	12.48	12.49	12.53	12.45	12.16	12.03	11.89	11.99	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			Measured Pwr (dBm)						MPR	Tune-up Limit
					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	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.59	12.34	12.49	12.35	12.14	12.02	11.88	11.66	11.91	0.0	13.5
			1	12	12.61	12.31	12.29	12.38	12.17	12.06	11.84	11.83	11.79	0.0	13.5
			1	22	12.77	12.51	12.37	12.46	12.19	11.97	11.77	11.65	11.90	0.0	13.5
			12	0	12.71	12.44	12.43	12.39	12.15	11.98	11.89	11.68	11.89	0.0	13.5
			12	6	12.72	12.45	12.34	12.43	12.15	12.02	11.81	11.63	11.93	0.0	13.5
			12	12	12.73	12.43	12.42	12.37	12.18	11.88	11.83	11.72	11.92	0.0	13.5
		QPSK	24	0	12.60	12.43	12.33	12.45	12.21	12.10	11.83	11.71	11.83	0.0	13.5
			1	1	12.73	12.50	12.55	12.45	12.31	12.04	11.92	11.76	12.12	0.0	13.5
			1	12	12.70	12.46	12.36	12.60	12.30	12.14	11.94	11.82	12.08	0.0	13.5
			1	22	12.77	12.60	12.42	12.54	12.31	12.09	11.96	11.66	12.07	0.0	13.5
			12	0	12.66	12.51	12.52	12.45	12.23	12.05	11.97	11.78	12.00	0.0	13.5
			12	6	12.68	12.43	12.38	12.50	12.21	12.15	11.94	11.68	11.99	0.0	13.5
		16QAM	12	12	12.79	12.45	12.38	12.49	12.19	12.14	11.87	11.78	12.06	0.0	13.5
			24	0	12.68	12.45	12.40	12.46	12.21	12.12	11.88	11.85	12.07	0.0	13.5
			1	1	12.83	13.34	12.69	12.21	12.21	11.92	11.98	11.73	12.07	0.0	13.5
		64QAM	1	12	12.80	12.28	12.49	12.25	12.33	11.88	11.96	11.75	12.07	0.0	13.5
			1	22	12.76	12.34	12.55	12.29	12.37	11.87	11.92	11.71	12.06	0.0	13.5
		256QAM	1	1	12.84	12.25	12.46	12.32	12.24	12.19	12.19	11.77	12.10	0.0	13.5
		256QAM	1	1	12.96	12.60	12.92	12.49	12.52	12.06	12.12	11.99	12.29	0.0	13.5
	CP-OFDM	QPSK	1	1	12.83	12.49	12.56	12.58	12.30	12.03	11.93	11.87	12.03	0.0	13.5

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (SRS2) (Main.2) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI = 0, 3, 4									
		Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334	650000	662000	662000	662000	662000	662000	662000	662000	Tune-up Limit
		3500.01 MHz	3750.00 MHz	3930.00 MHz	3930.00 MHz	3930.00 MHz	3930.00 MHz	3930.00 MHz	3930.00 MHz	3930.00 MHz	
100 MHz	SRS CW	16.93	17.16						16.22		18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334	649668	656000	662332	662332	656000	662332	662332	662332	Tune-up Limit
		3500.01 MHz	3745.02 MHz	3840.00 MHz	3934.98 MHz	3934.98 MHz	3840.00 MHz	3934.98 MHz	3934.98 MHz	3934.98 MHz	
		16.91	17.14	16.47	16.08	16.08	16.47	16.08	16.08	16.08	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334	649334	656000	662666	662666	656000	662666	662666	662666	Tune-up Limit
		3500.01 MHz	3740.01 MHz	3840.00 MHz	3939.99 MHz	3939.99 MHz	3840.00 MHz	3939.99 MHz	3939.99 MHz	3939.99 MHz	
		16.90	17.21	16.44	16.12	16.12	16.44	16.12	16.12	16.12	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334	649000	653666	658334	663000	658334	663000	663000	663000	Tune-up Limit
		3500.01 MHz	3735.00 MHz	3804.99 MHz	3875.01 MHz	3945.00 MHz	3875.01 MHz	3945.00 MHz	3945.00 MHz	3945.00 MHz	
		16.92	17.23	16.67	16.18	16.21	16.67	16.18	16.21	16.21	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334	648668	653556	658444	663332	658444	663332	663332	663332	Tune-up Limit
		3500.01 MHz	3730.02 MHz	3803.34 MHz	3876.66 MHz	3949.98 MHz	3876.66 MHz	3949.98 MHz	3949.98 MHz	3949.98 MHz	
		16.89	17.25	16.62	16.22	16.20	16.62	16.22	16.20	16.20	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631668	635000	648334	652168	656000	659834	663666	663666	663666	Tune-up Limit
		3475.02 MHz	3525.00 MHz	3725.01 MHz	3782.52 MHz	3840.00 MHz	3897.51 MHz	3954.99 MHz	3954.99 MHz	3954.99 MHz	
		16.76	16.81	17.31	16.59	16.37	16.28	16.19	16.19	16.19	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631334	635332	648000	651200	654400	657600	660800	664000	664000	Tune-up Limit
		3470.01 MHz	3529.98 MHz	3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz	3960.00 MHz	
		16.81	16.89	17.39	16.61	16.53	16.42	16.35	16.31	16.31	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631000	633334	635666	647668	651000	654334	657666	661000	664332	Tune-up Limit
		3465.00 MHz	3500.01 MHz	3534.99 MHz	3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz	
		16.86	16.91	17.08	17.57	17.21	16.88	16.71	16.58	16.57	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630834	633334	635832	647500	650900	654300	657700	661100	664500	Tune-up Limit
		3462.51 MHz	3500.01 MHz	3537.48 MHz	3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz	
		16.88	16.87	17.09	17.64	17.15	16.84	16.66	16.59	16.60	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630668	633334	636000	647334	650800	654266	657734	661200	664666	Tune-up Limit
		3460.02 MHz	3500.01 MHz	3540.00 MHz	3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz	
		16.87	16.89	17.05	17.66	17.11	16.87	16.62	16.57	16.57	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630500	633334	636166	647168	650700	654234	657766	661300	664832	Tune-up Limit
		3457.50 MHz	3500.01 MHz	3542.49 MHz	3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz	
		17.01	16.88	17.11	17.68	17.13	16.93	16.60	16.49	16.67	18.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630334	633334	636332	647000	650600	654200	657800	661400	665000	Tune-up Limit
		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	
		17.06	16.91	17.32	17.70	17.16	16.81	16.58	16.30	16.43	18.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (SRS2) (Main.2) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI = 2									
		Measured Pwr (dBm)					Measured Pwr (dBm)				
			633334		650000				662000		Tune-up Limit
			3500.01 MHz		3750.00 MHz				3930.00 MHz		
100 MHz	SRS CW		15.88		16.26				15.17		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
			633334		649668			656000		662332	Tune-up Limit
			3500.01 MHz		3745.02 MHz			3840.00 MHz		3934.98 MHz	
90 MHz	SRS CW		15.87		16.20			15.38		15.14	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
			633334		649334			656000		662666	Tune-up Limit
			3500.01 MHz		3740.01 MHz			3840.00 MHz		3939.99 MHz	
80 MHz	SRS CW		15.91		16.24			15.38		15.17	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
			633334		649000	653666			658334	663000	Tune-up Limit
			3500.01 MHz		3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz	
70 MHz	SRS CW		15.88		16.22	15.55			15.27	15.22	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
			633334		648668	653556			658444	663332	Tune-up Limit
			3500.01 MHz		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz	
60 MHz	SRS CW		15.87		16.21	15.65			15.42	15.32	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631668		635000	648334	652168		656000	659834	663666	Tune-up Limit
		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	15.84		15.83	16.25	15.37		15.48	15.33	15.27	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631334		635332	648000	651200	654400	657600	660800	664000	Tune-up Limit
		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	15.76		15.88	16.32	15.71	15.59	15.75	15.68	15.45	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631000	633334	635666	647668	651000	654334	657666	661000	664332	Tune-up Limit
		3465.00 MHz	3500.01 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	15.88	15.89	16.05	16.47	16.22	15.59	15.70	15.55	15.68	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630834	633334	635832	647500	650900	654300	657700	661100	664500	Tune-up Limit
		3462.51 MHz	3500.01 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	15.89	15.88	16.01	16.66	16.11	15.84	15.67	15.60	15.57	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630668	633334	636000	647334	650800	654266	657734	661200	664666	Tune-up Limit
		3460.02 MHz	3500.01 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	15.87	15.91	15.98	16.64	16.22	16.84	16.81	16.58	16.66	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630500	633334	636166	647168	650700	654234	657766	661300	664832	Tune-up Limit
		3457.50 MHz	3500.01 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	15.89	15.95	15.99	16.84	16.13	15.86	15.56	15.35	15.60	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630334	633334	636332	647000	650600	654200	657800	661400	665000	Tune-up Limit
		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	15.99	15.98	16.10	16.66	16.00	15.84	15.48	15.37	15.49	17.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (SRS3) (Sub.7) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI = 0, 2, 3, 4									
		Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		650000					662000		Tune-up Limit
		3500.01 MHz		3750.00 MHz					3930.00 MHz		
100 MHz	SRS CW	16.72		16.78					15.78		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649668			656000		662332		Tune-up Limit
		3500.01 MHz		3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	SRS CW	16.82		16.79			16.08		16.04		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649334			656000		662666		Tune-up Limit
		3500.01 MHz		3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	SRS CW	16.65		16.79			16.12		15.97		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649000	653666			658334	663000		Tune-up Limit
		3500.01 MHz		3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	SRS CW	16.82		16.82	16.61			16.05	16.07		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		648668	653556			658444	663332		Tune-up Limit
		3500.01 MHz		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW	16.88		16.84	16.65			15.90	15.98		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631668		635000	648334	652168		656000	659834	663666	Tune-up Limit
		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	16.92		16.87	16.81	16.64		16.12	15.93	16.04	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631334		635332	648000	651200	654400	657600	660800	664000	Tune-up Limit
		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	16.87		16.70	16.75	16.70	16.41	16.05	16.06	16.03	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631000	633334	635666	647668	651000	654334	657666	661000	664332	Tune-up Limit
		3465.00 MHz	3500.01 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	16.93	16.85	16.92	16.79	16.64	16.44	16.08	16.03	15.97	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630834	633332	635832	647500	650900	654300	657700	661100	664500	Tune-up Limit
		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	16.88	16.91	16.72	16.75	16.67	16.43	15.99	16.02	15.99	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630668	633334	636000	647334	650800	654266	657734	661200	664666	Tune-up Limit
		3460.02 MHz	3500.01 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	16.90	16.77	16.82	16.84	16.62	16.42	16.09	16.05	15.99	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630500	633334	636166	647168	650700	654234	657766	661300	664832	Tune-up Limit
		3457.50 MHz	3500.01 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	16.88	16.89	16.76	16.80	16.66	16.40	16.02	15.95	15.99	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630334	633334	636332	647000	650600	654200	657800	661400	665000	Tune-up Limit
		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	16.91	16.72	16.76	16.97	16.46	16.44	16.05	16.00	15.99	17.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

NR Band n77 (SRS4) (Sub.8) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI = 0, 2, 3, 4									
		Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		650000					662000		Tune-up Limit
		3500.01 MHz		3750.00 MHz					3930.00 MHz		
100 MHz	SRS CW	15.58		15.21					16.33		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649668			656000		662332		Tune-up Limit
		3500.01 MHz		3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	SRS CW	15.52		15.13			15.49		16.34		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649334			656000		662666		Tune-up Limit
		3500.01 MHz		3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	SRS CW	15.48		15.02			15.55		16.31		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		649000	653666			658334	663000		Tune-up Limit
		3500.01 MHz		3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	SRS CW	15.52		14.88	14.91			16.05	16.69		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		633334		648668	653556			658444	663332		Tune-up Limit
		3500.01 MHz		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW	15.66		15.05	15.44			15.99	16.42		17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631668		635000	648334	652168		656000	659834	663666	Tune-up Limit
		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	15.80		15.72	14.87	14.89		15.74	16.06	16.72	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631334		635332	648000	651200	654400	657600	660800	664000	Tune-up Limit
		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	16.00		15.82	14.87	14.84	15.32	15.79	16.10	16.65	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		631000	633334	635666	647668	651000	654334	657666	661000	664332	Tune-up Limit
		3465.00 MHz	3500.01 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	16.00	15.92	15.86	14.86	14.90	15.37	15.76	16.06	16.73	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630834	633334	635832	647500	650900	654300	657700	661100	664500	Tune-up Limit
		3462.51 MHz	3500.01 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	16.00	15.92	15.85	14.85	14.87	15.36	15.70	16.07	16.65	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630668	633334	636000	647334	650800	654266	657734	661200	664666	Tune-up Limit
		3460.02 MHz	3500.01 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	16.02	15.85	15.82	14.82	14.89	15.30	15.77	16.13	16.69	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630500	633334	636166	647168	650700	654234	657766	661300	664832	Tune-up Limit
		3457.50 MHz	3500.01 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	16.03	15.94	15.88	14.81	14.83	15.39	15.72	16.09	16.74	17.0
BW (MHz)	Mode	Measured Pwr (dBm)					Measured Pwr (dBm)				
		630334	633334	636332	647000	650600	654200	657800	661400	665000	Tune-up Limit
		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	15.92	15.68	15.70	14.86	14.89	15.36	15.76	16.11	16.71	17.0

Notes:

NR TDD mode were measured output power through test mode software provided by manufacturer.

9.5. Wi-Fi 2.4 GHz (DTS Band)

WLAN SISO output power results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Normal WLAN mode power					
					Maximum. Average power (dBm)			Reduced. Average power (dBm)		
					Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)	Meas. Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G SISO Sub.4	802.11b	1 Mbps	1	2412.0	14.21	16.0	Yes	12.08	13.0	Yes
			6	2437.0	15.28			11.71		
			11	2462.0	15.26			12.13		
			12	2467.0	Not Required			No		Not Required
	13	2472.0	0.0	0.0						
	802.11g	6 Mbps	1-11	2412.0-2462.0		16.0	13.0			
			12	2467.0		6.0	6.0			
			13	2472.0		0.0	0.0			
			802.11n	6.5 Mbps		1-11	2412.0-2462.0		16.0	
	12	2467.0				6.0	6.0			
	13	2472.0				0.0	0.0			
	802.11ac	6.5 Mbps				1-11	2412.0-2462.0		16.0	
			12	2467.0		6.0	6.0			
			13	2472.0		0.0	0.0			
			802.11ax	7.3 Mbps		1-11	2412.0-2462.0		15.0	
	12	2467.0				6.0	6.0			
	13	2472.0				0.0	0.0			
	WiFi 2.4G SISO Sub.6	802.11b				1 Mbps	1		2412.0	
6			2437.0	13.72	10.89					
11			2462.0	14.23	11.08					
12			2467.0	Not Required	No		Not Required	5.0	No	
13		2472.0	-1.0			-1.0				
802.11g		6 Mbps	1-11			2412.0-2462.0		15.0		12.0
			12			2467.0		5.0		5.0
			13			2472.0		-1.0		-1.0
			802.11n			6.5 Mbps		1-11		2412.0-2462.0
12		2467.0						5.0		5.0
13		2472.0						-1.0		-1.0
802.11ac		6.5 Mbps						1-11		2412.0-2462.0
			12			2467.0		5.0		5.0
			13			2472.0		-1.0		-1.0
			802.11ax			7.3 Mbps		1-11		2412.0-2462.0
12		2467.0						5.0		5.0
13		2472.0						-1.0		-1.0

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.
- SAR is not considered for Ch.12, 13. these channels pwr is lower than 1~11 channels.

WLAN MIMO output power results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Normal WLAN mode power							
					Maximum. Average power (dBm)			Reduced. Average power (dBm)				
					Meas. Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)	Meas. Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)		
WiFi 2.4G MIMO Sub.4	802.11g	6 Mbps	1	2437.0	14.39	16.0	Yes	11.45	13.0	Yes		
			6	2462.0	15.26			12.32				
			11	2467.0	15.15			11.79				
			12	2467.0	Not Required			No			Not Required	6.0
			13	2472.0								0.0
	802.11n	6.5 Mbps	1-11	2412.0-2462.0		16.0	13.0					
			12	2467.0		6.0	6.0					
			13	2472.0		0.0	0.0					
			802.11ac	6.5 Mbps		1-11	2412.0-2462.0		16.0	13.0		
	12	2467.0				6.0	6.0					
	13	2472.0				0.0	0.0					
	802.11ax	7.3 Mbps				1-11	2412.0-2462.0		15.0	13.0		
			12	2467.0		6.0	6.0					
			13	2472.0	0.0	0.0						
			WiFi 2.4G MIMO Sub.6	802.11g	6 Mbps	1	2412.0	14.11	15.0	Yes	11.23	12.0
6	2437.0	13.62				10.57						
11	2462.0	14.23				11.47						
12	2467.0	Not Required				No	Not Required	5.0				
13	2472.0							-1.0			-1.0	
802.11n	6.5 Mbps			1-11	2412.0-2462.0			15.0	12.0			
				12	2467.0			5.0	5.0			
				13	2472.0			-1.0	-1.0			
				802.11ac	6.5 Mbps			1-11	2412.0-2462.0	15.0	12.0	
12	2467.0							5.0	5.0			
13	2472.0							-1.0	-1.0			
802.11ax	7.3 Mbps							1-11	2412.0-2462.0	14.0	12.0	
				12	2467.0			5.0	5.0			
		13		2472.0	-1.0	-1.0						

Note(s):

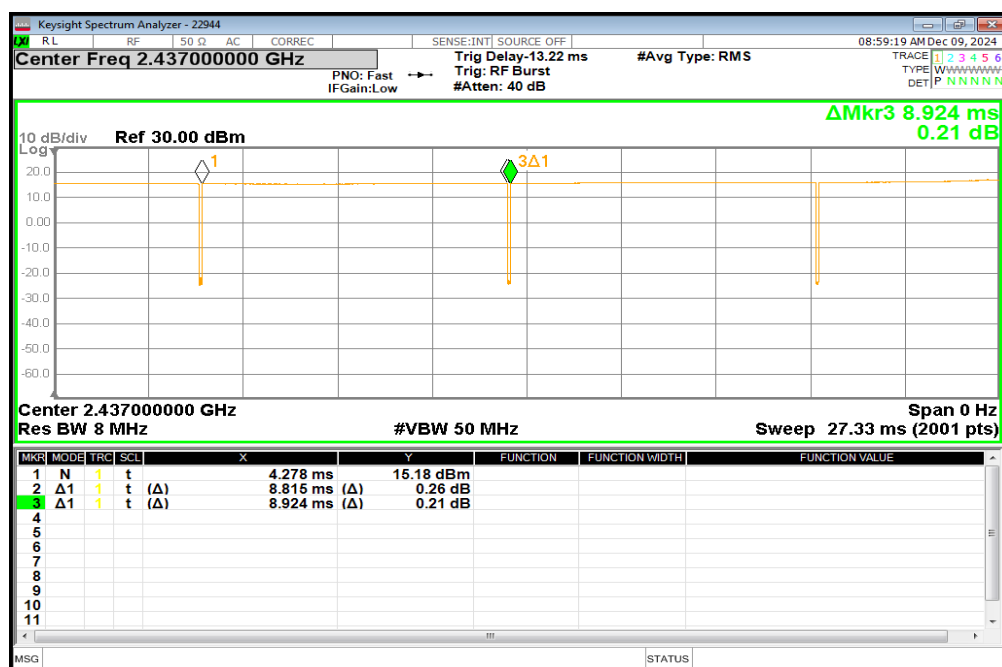
- SAR is not required for 802.11g/n modes when the adjusted SAR for 802.11b is < 1.2 W/kg.
- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel 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.
- SAR is not considered for Ch.12, 13. these channels pwr is lower than 1~11 channels.

Duty Factor Measured Results

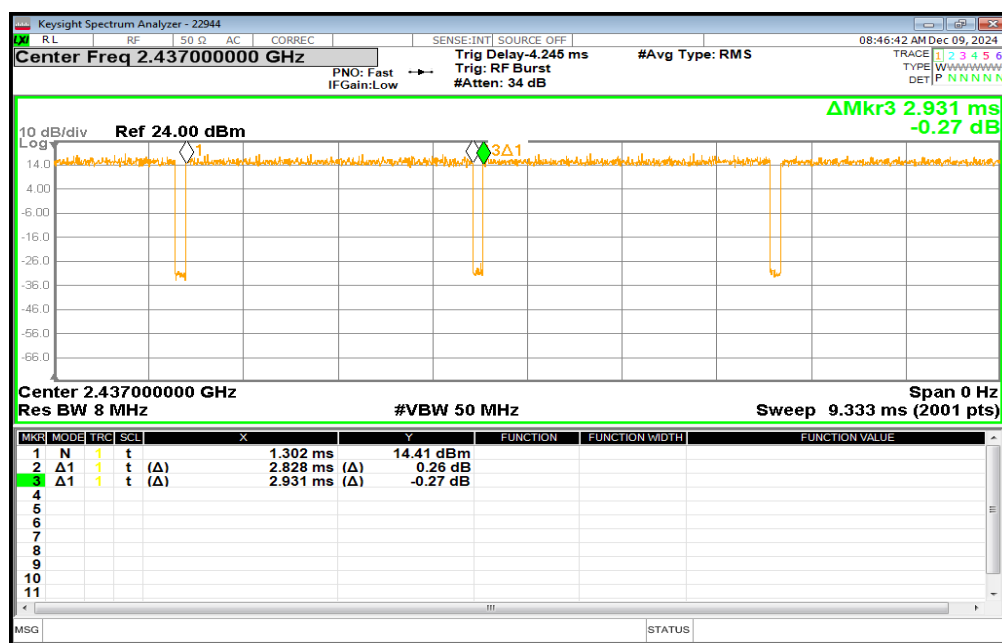
Mode	T on (ms)	Period (ms)	Maximum Duty Cycle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
802.11b	8.815	8.924	100.00%	98.78%	1.01
802.11g	2.828	2.931	100.00%	96.49%	1.04

Duty Cycle plots

802.11b-SISO



802.11g-MIMO



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

WLAN MIMO Sub.3 output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum. Average power (dBm)			Ch #	Freq. (MHz)	Reduced. Average power (dBm)		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)			Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz MIMO Sub.3	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	58	5290.0	9.30	11.0	Yes	58	5290.0	8.50	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	No
	5.5 (U-NII 2C)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	9.70	11.0	Yes	106	5530.0	8.10	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	No
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	10.50	11.0	Yes	155	5775.0	7.87	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	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 Sub.5 output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Maximum Allowed Average power (dBm)			Ch #	Freq. (MHz)	Reduced Allowed Average power (dBm)		
						Avg Pwr (dBm)	Max. Tune- up Limit (dBm)	SAR Test (Yes/No)			Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
5GHz MIMO Sub.5	5.3 (UNII 2A)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	58	5290.0	10.08	11.0	Yes	58	5290.0	7.91	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	No
	5.5 (U-NII 2C)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	106	5530.0	10.10	11.0	Yes	106	5530.0	8.15	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	No
	5.8 (UNII 3)	802.11a	6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11n (HT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ac (VHT80)	29.3 Mbps	155	5775.0	10.10	11.0	Yes	155	5775.0	8.47	9.0	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE40)	14.6 Mbps	Not Required			11.0	No	Not Required			9.0	No
		802.11ax (HE80)	36.0 Mbps	Not Required			11.0	No	Not Required			9.0	No

Note(s):

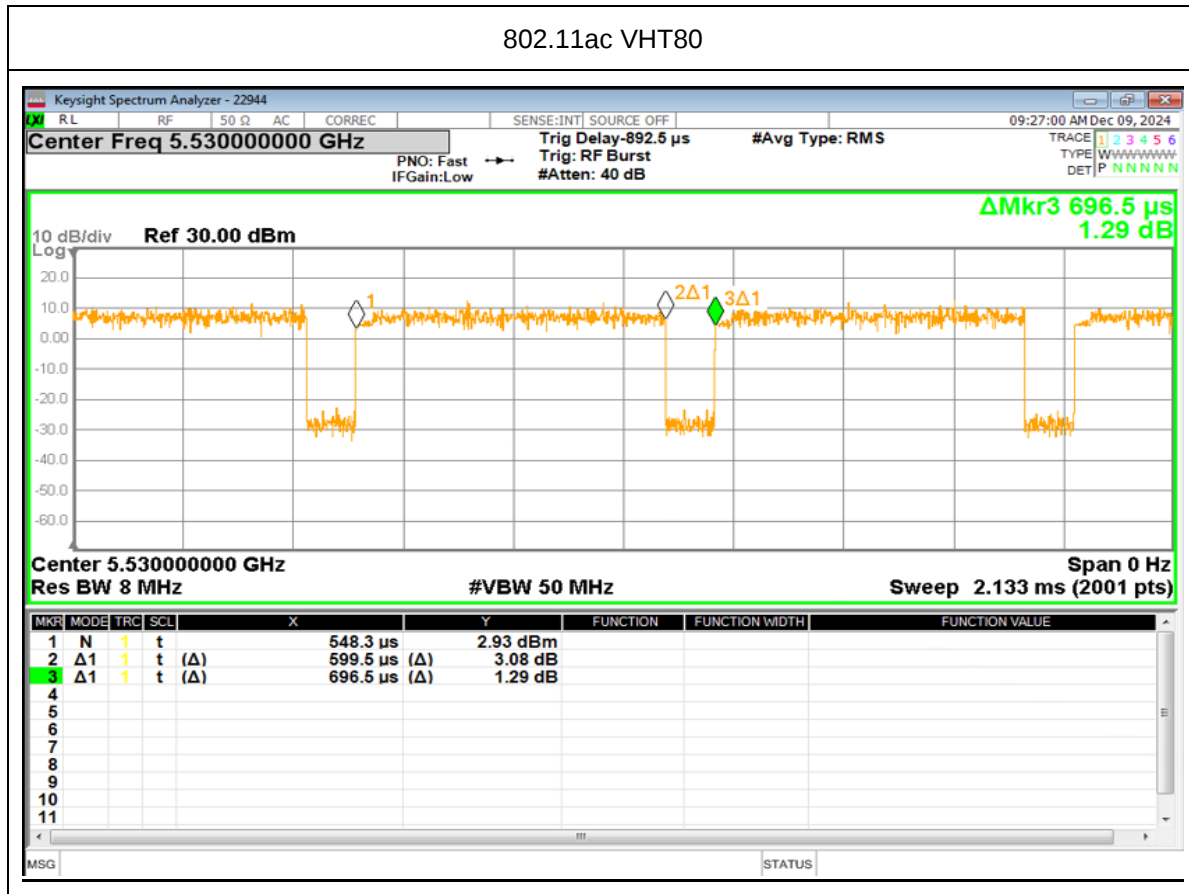
- For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac/ax mode 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)
802.11ac VHT80	0.600	0.697	100.00%	86.07%	1.16

Duty Cycle plots

802.11ac VHT80



9.7. Bluetooth

Bluetooth SISO output power Results

Band (GHz)	Antenna	Mode	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
Bluetooth 2.4G	Bluetooth Sub.4	Bluetooth (BDR) (1Mbps)	0	2402.0	Not Required	12.50	No
			39	2441.0		13.50	
			78	2480.0		11.50	
		Bluetooth (EDR) (2M / 3Mbps)	0	2402.0	Not Required	11.00	No
			39	2441.0		11.50	
			78	2480.0		10.00	
		Bluetooth (LE) (1M / 2M)	0	2402.0	11.42	12.50	Yes
			19	2440.0	12.38	13.50	
			39	2480.0	9.74	11.50	
		Bluetooth (LE) (125k / 500kbps)	0	2402.0	Not Required	8.00	No
			19	2440.0		9.00	
			39	2480.0		7.00	
Bluetooth 2.4G	Bluetooth Sub.6	Bluetooth (BDR) (1Mbps)	0	2402.0	Not Required	10.50	No
			39	2441.0		11.50	
			78	2480.0		9.00	
		Bluetooth (EDR) (2M / 3Mbps)	0	2402.0	Not Required	9.50	No
			39	2441.0		10.00	
			78	2480.0		8.00	
		Bluetooth (LE) (1M / 2M)	0	2402.0	9.55	10.50	Yes
			19	2440.0	10.04	11.50	
			39	2480.0	7.61	9.00	
		Bluetooth (LE) (125k / 500kbps)					

Note(s):

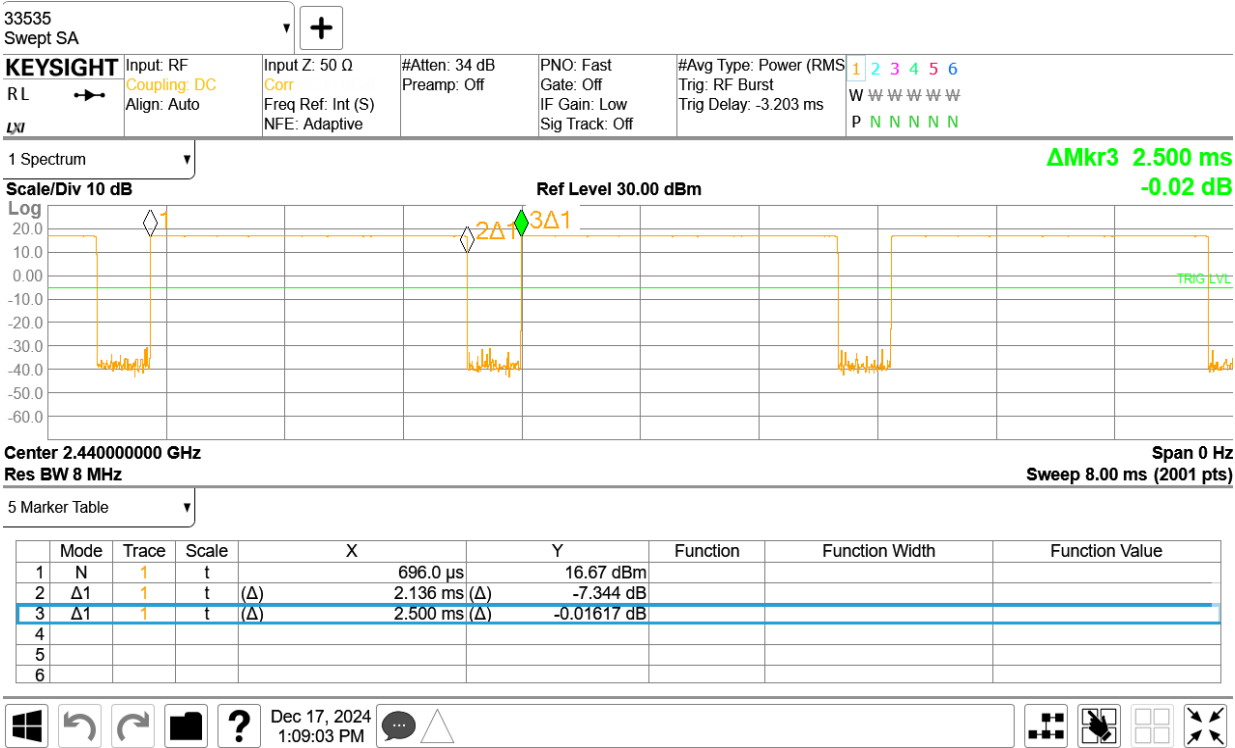
1. For BT/BLE SISO SAR test, BLE(1Mbps) has highest time-based averaged power in all modes. So SAR test performed at (BLE1Mbps).
2. BLE (125k/500kbps) is not supported by Sub.6 ant, Only supported by Sub.4 ant.

Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cyle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
BLE-1M	2.136	2.500	87.00%	85.44%	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)



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.

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 closest/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. GSM 850

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.1	Head	GPRS2 Slots	0	Left Touch	190	836.6	32.00	30.69	0.177	0.239		38.21	36.98
AG.0	Main.1	Head	GPRS2 Slots	0	Left Tilt	190	836.6	32.00	30.69	0.084	0.114		41.45	
AG.0	Main.1	Head	GPRS2 Slots	0	Right Touch	190	836.6	32.00	30.69	0.235	0.318	1	36.98	
AG.0	Main.1	Head	GPRS2 Slots	0	Right Tilt	190	836.6	32.00	30.69	0.111	0.150		40.24	
AG.0	Main.1	Body worn & Hotspot	GPRS4 Slots	5	Rear	190	836.6	25.50	23.65	0.442	0.677	2	27.20	27.20
AG.0	Main.1	Body worn & Hotspot	GPRS4 Slots	5	Front	190	836.6	25.50	23.65	0.239	0.366		29.87	
AG.0	Main.1	Hotspot	GPRS4 Slots	5	Bottom	190	836.6	25.50	23.65	0.365	0.559		28.03	
AG.0	Main.1	Hotspot	GPRS4 Slots	5	Right	190	836.6	25.50	23.65	0.138	0.211		32.25	

10.2. GSM 1900

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	GPRS4 Slots	0	Left Touch	661	1880.0	26.00	24.10	0.075	0.116	3	35.35	35.35
AG.0	Main.2	Head	GPRS4 Slots	0	Left Tilt	661	1880.0	26.00	24.10	0.044	0.069		37.67	
AG.0	Main.2	Head	GPRS4 Slots	0	Right Touch	661	1880.0	26.00	24.10	0.058	0.090		36.47	
AG.0	Main.2	Head	GPRS4 Slots	0	Right Tilt	661	1880.0	26.00	24.10	0.054	0.084		36.78	
AG.0	Main.2	Body worn & Hotspot	GPRS4 Slots	5	Rear	661	1880.0	22.50	21.06	0.522	0.727	4	23.88	23.88
AG.0	Main.2	Body worn & Hotspot	GPRS4 Slots	5	Front	661	1880.0	22.50	21.06	0.329	0.458		25.89	
AG.0	Main.2	Hotspot	GPRS4 Slots	5	Left	661	1880.0	22.50	21.06	0.224	0.312		27.56	
AG.0	Main.2	Hotspot	GPRS4 Slots	5	Bottom	661	1880.0	22.50	21.06	0.414	0.577		24.89	

10.3. WCDMA Band II

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	Rel 99 RMC	0	Left Touch	9400	1880.0	23.00	22.51	0.163	0.182	5	30.39	30.39
AG.0	Main.2	Head	Rel 99 RMC	0	Left Tilt	9400	1880.0	23.00	22.51	0.102	0.114		32.42	
AG.0	Main.2	Head	Rel 99 RMC	0	Right Touch	9400	1880.0	23.00	22.51	0.143	0.160		30.96	
AG.0	Main.2	Head	Rel 99 RMC	0	Right Tilt	9400	1880.0	23.00	22.51	0.110	0.123		32.10	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	9262	1852.4	20.00	19.50	0.969	1.087	6	19.64	19.64
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	9400	1880.0	20.00	19.61	0.980	1.072		19.70	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	9538	1907.6	20.00	19.54	0.940	1.045		19.81	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Front	9400	1880.0	20.00	19.61	0.397	0.434		23.62	
AG.0	Main.2	Hotspot	Rel 99 RMC	5	Left	9400	1880.0	20.00	19.61	0.375	0.410		23.87	
AG.0	Main.2	Hotspot	Rel 99 RMC	5	Bottom	9400	1880.0	20.00	19.61	0.617	0.675		21.71	

10.4. WCDMA Band IV

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	Rel 99 RMC	0	Left Touch	1413	1732.6	23.00	22.43	0.121	0.138	7	31.60	31.60
AG.0	Main.2	Head	Rel 99 RMC	0	Left Tilt	1413	1732.6	23.00	22.43	0.065	0.074		34.30	
AG.0	Main.2	Head	Rel 99 RMC	0	Right Touch	1413	1732.6	23.00	22.43	0.100	0.114		32.43	
AG.0	Main.2	Head	Rel 99 RMC	0	Right Tilt	1413	1732.6	23.00	22.43	0.085	0.096		33.14	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	1312	1712.4	21.00	19.17	0.712	1.085	8	20.65	20.65
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	1413	1732.6	21.00	19.36	0.647	0.944		21.25	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Rear	1513	1752.6	21.00	19.49	0.746	1.056		20.76	
AG.0	Main.2	Body worn & Hotspot	Rel 99 RMC	5	Front	1413	1732.6	21.00	19.36	0.304	0.443		24.53	
AG.0	Main.2	Hotspot	Rel 99 RMC	5	Left	1413	1732.6	21.00	19.36	0.239	0.349		25.58	
AG.0	Main.2	Hotspot	Rel 99 RMC	5	Bottom	1413	1732.6	21.00	19.36	0.451	0.658		22.82	

10.5. WCDMA Band V

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	Rel 99 RMC	0	Left Touch	4183	836.6	25.80	24.55	0.198	0.264		31.58	30.22
AG.0	Main1	Head	Rel 99 RMC	0	Left Tilt	4183	836.6	25.80	24.55	0.095	0.127		34.77	
AG.0	Main1	Head	Rel 99 RMC	0	Right Touch	4183	836.6	25.80	24.55	0.271	0.361	9	30.22	
AG.0	Main1	Head	Rel 99 RMC	0	Right Tilt	4183	836.6	25.80	24.55	0.157	0.209		32.59	
AG.0	Main1	Body worn & Hotspot	Rel 99 RMC	5	Rear	4132	826.4	23.00	22.66	0.615	0.665		24.77	22.87
AG.0	Main1	Body worn & Hotspot	Rel 99 RMC	5	Rear	4183	836.6	23.00	22.52	0.874	0.976		23.10	
AG.0	Main1	Body worn & Hotspot	Rel 99 RMC	5	Rear	4233	846.6	23.00	22.39	0.896	1.031	10	22.87	
AG.0	Main1	Body worn & Hotspot	Rel 99 RMC	5	Front	4183	836.6	23.00	22.52	0.529	0.591		25.29	
AG.0	Main1	Hotspot	Rel 99 RMC	5	Bottom	4183	836.6	23.00	22.52	0.676	0.755		24.22	
AG.0	Main1	Hotspot	Rel 99 RMC	5	Right	4183	836.6	23.00	22.52	0.277	0.309		28.10	

10.6. LTE Band 5 (10MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	QPSK	0	Left Touch	20525	836.5	1	0	25.80	24.64	0.190	0.248		31.85	30.52
AG.0	Main1	Head	QPSK	0	Left Touch	20525	836.5	25	0	24.80	23.36	0.154	0.215		31.48	
AG.0	Main1	Head	QPSK	0	Left Tilt	20525	836.5	1	0	25.80	24.64	0.120	0.157		33.85	
AG.0	Main1	Head	QPSK	0	Left Tilt	20525	836.5	25	0	24.80	23.36	0.093	0.130		33.68	
AG.0	Main1	Head	QPSK	0	Right Touch	20525	836.5	1	0	25.80	24.64	0.258	0.337	11	30.52	
AG.0	Main1	Head	QPSK	0	Right Touch	20525	836.5	25	0	24.80	23.36	0.192	0.267		30.53	
AG.0	Main1	Head	QPSK	0	Right Tilt	20525	836.5	1	0	25.80	24.64	0.098	0.128		34.73	
AG.0	Main1	Head	QPSK	0	Right Tilt	20525	836.5	25	0	24.80	23.36	0.096	0.134		33.54	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	20525	836.5	1	0	23.00	22.48	0.959	1.081	12	22.66	21.67
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	20525	836.5	25	0	22.00	21.45	0.950	1.078		21.67	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	20525	836.5	50	0	22.00	21.40	0.906	1.040		21.83	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	20525	836.5	1	0	23.00	22.48	0.448	0.505		25.97	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	20525	836.5	25	0	22.00	21.45	0.447	0.507		24.95	
AG.0	Main1	Hotspot	QPSK	5	Bottom	20525	836.5	1	0	23.00	22.48	0.736	0.830		23.81	
AG.0	Main1	Hotspot	QPSK	5	Bottom	20525	836.5	25	0	22.00	21.45	0.731	0.830		22.81	
AG.0	Main1	Hotspot	QPSK	5	Bottom	20525	836.5	50	0	22.00	21.40	0.621	0.713		23.47	
AG.0	Main1	Hotspot	QPSK	5	Right	20525	836.5	1	0	23.00	22.48	0.271	0.305		28.15	
AG.0	Main1	Hotspot	QPSK	5	Right	20525	836.5	25	0	22.00	21.45	0.261	0.296		27.28	

10.7. LTE Band 12 (10MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	QPSK	0	Left Touch	23095	707.5	1	0	23.50	22.63	0.143	0.175		31.08	30.07
AG.0	Main1	Head	QPSK	0	Left Touch	23095	707.5	25	0	22.50	21.56	0.112	0.139		31.07	
AG.0	Main1	Head	QPSK	0	Left Tilt	23095	707.5	1	0	23.50	22.63	0.110	0.134		32.22	
AG.0	Main1	Head	QPSK	0	Left Tilt	23095	707.5	25	0	22.50	21.56	0.083	0.103		32.37	
AG.0	Main1	Head	QPSK	0	Right Touch	23095	707.5	1	0	23.50	22.63	0.176	0.215	13	30.17	
AG.0	Main1	Head	QPSK	0	Right Touch	23095	707.5	25	0	22.50	21.56	0.141	0.175		30.07	
AG.0	Main1	Head	QPSK	0	Right Tilt	23095	707.5	1	0	23.50	22.63	0.104	0.127		32.46	
AG.0	Main1	Head	QPSK	0	Right Tilt	23095	707.5	25	0	22.50	21.56	0.079	0.098		32.58	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23095	707.5	1	0	23.50	22.63	0.406	0.496	14	26.54	26.54
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23095	707.5	25	0	22.50	21.56	0.317	0.394		26.55	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23095	707.5	1	0	23.50	22.63	0.265	0.324		28.40	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23095	707.5	25	0	22.50	21.56	0.206	0.256		28.42	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23095	707.5	1	0	23.50	22.63	0.332	0.406		27.42	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23095	707.5	25	0	22.50	21.56	0.260	0.323		27.41	
AG.0	Main1	Hotspot	QPSK	5	Right	23095	707.5	1	0	23.50	22.63	0.234	0.286		28.94	
AG.0	Main1	Hotspot	QPSK	5	Right	23095	707.5	25	0	22.50	21.56	0.182	0.226		28.96	

10.8. LTE Band 13 (10MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	QPSK	0	Left Touch	23230	782	1	0	23.50	22.67	0.108	0.131		32.34	31.88
AG.0	Main1	Head	QPSK	0	Left Touch	23230	782	25	0	22.50	21.71	0.074	0.089		33.02	
AG.0	Main1	Head	QPSK	0	Left Tilt	23230	782	1	0	23.50	22.67	0.055	0.067		35.27	
AG.0	Main1	Head	QPSK	0	Left Tilt	23230	782	25	0	22.50	21.71	0.040	0.048		35.69	
AG.0	Main1	Head	QPSK	0	Right Touch	23230	782	1	0	23.50	22.67	0.120	0.145	15	31.88	
AG.0	Main1	Head	QPSK	0	Right Touch	23230	782	25	0	22.50	21.71	0.088	0.106		32.27	
AG.0	Main1	Head	QPSK	0	Right Tilt	23230	782	1	0	23.50	22.67	0.067	0.081		34.41	
AG.0	Main1	Head	QPSK	0	Right Tilt	23230	782	25	0	22.50	21.71	0.052	0.062		34.55	29.28
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23230	782	1	0	23.50	22.67	0.215	0.260	16	29.35	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23230	782	25	0	22.50	21.71	0.175	0.210		29.28	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23230	782	1	0	23.50	22.67	0.070	0.085		34.22	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23230	782	25	0	22.50	21.71	0.057	0.068		34.15	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23230	782	1	0	23.50	22.67	0.088	0.107		33.23	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23230	782	25	0	22.50	21.71	0.074	0.089		33.02	
AG.0	Main1	Hotspot	QPSK	5	Right	23230	782	1	0	23.50	22.67	0.073	0.088		34.04	34.00
AG.0	Main1	Hotspot	QPSK	5	Right	23230	782	25	0	22.50	21.71	0.059	0.071		34.00	

10.9. LTE Band 17 (10MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	QPSK	0	Left Touch	23790	710	1	0	25.50	24.01	0.077	0.109		35.15	31.23
AG.0	Main1	Head	QPSK	0	Left Touch	23790	710	25	0	24.50	22.96	0.060	0.086		35.18	
AG.0	Main1	Head	QPSK	0	Left Tilt	23790	710	1	0	25.50	24.01	0.046	0.065		37.38	
AG.0	Main1	Head	QPSK	0	Left Tilt	23790	710	25	0	24.50	22.96	0.034	0.048		37.65	
AG.0	Main1	Head	QPSK	0	Right Touch	23790	710	1	0	25.50	24.01	0.186	0.262	17	31.31	
AG.0	Main1	Head	QPSK	0	Right Touch	23790	710	25	0	24.50	22.96	0.149	0.212		31.23	
AG.0	Main1	Head	QPSK	0	Right Tilt	23790	710	1	0	25.50	24.01	0.053	0.075		36.77	
AG.0	Main1	Head	QPSK	0	Right Tilt	23790	710	25	0	24.50	22.96	0.041	0.058		36.83	27.21
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23790	710	1	0	25.50	24.01	0.479	0.675	18	27.21	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Rear	23790	710	25	0	24.50	22.96	0.372	0.530		27.25	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23790	710	1	0	25.50	24.01	0.220	0.310		30.59	
AG.0	Main1	Body worn & Hotspot	QPSK	5	Front	23790	710	25	0	24.50	22.96	0.171	0.244		30.63	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23790	710	1	0	25.50	24.01	0.316	0.445		29.01	
AG.0	Main1	Hotspot	QPSK	5	Bottom	23790	710	25	0	24.50	22.96	0.248	0.354		29.02	
AG.0	Main1	Hotspot	QPSK	5	Right	23790	710	1	0	25.50	24.01	0.217	0.306		30.65	30.73
AG.0	Main1	Hotspot	QPSK	5	Right	23790	710	25	0	24.50	22.96	0.167	0.238		30.73	

10.10. LTE Band 26 (15MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.1	Head	QPSK	0	Left Touch	26865	831.5	1	0	25.80	23.98	0.115	0.175		33.37	31.83
AG.0	Main.1	Head	QPSK	0	Left Touch	26865	831.5	36	0	24.80	22.85	0.095	0.149		33.07	
AG.0	Main.1	Head	QPSK	0	Left Tilt	26865	831.5	1	0	25.80	23.98	0.063	0.096		35.99	
AG.0	Main.1	Head	QPSK	0	Left Tilt	26865	831.5	36	0	24.80	22.85	0.065	0.102		34.72	
AG.0	Main.1	Head	QPSK	0	Right Touch	26865	831.5	1	0	25.80	23.98	0.164	0.249	19	31.83	
AG.0	Main.1	Head	QPSK	0	Right Touch	26865	831.5	36	0	24.80	22.85	0.125	0.196		31.88	
AG.0	Main.1	Head	QPSK	0	Right Tilt	26865	831.5	1	0	25.80	23.98	0.086	0.131		34.64	
AG.0	Main.1	Head	QPSK	0	Right Tilt	26865	831.5	36	0	24.80	22.85	0.065	0.102		34.72	22.81
AG.0	Main.1	Body worn & Hotspot	QPSK	5	Rear	26865	831.5	1	0	23.00	22.32	0.697	0.815		23.89	
AG.0	Main.1	Body worn & Hotspot	QPSK	5	Rear	26865	831.5	36	0	22.00	21.34	0.713	0.830	20	22.81	
AG.0	Main.1	Body worn & Hotspot	QPSK	5	Rear	26865	831.5	75	0	22.00	21.36	0.600	0.695		23.58	
AG.0	Main.1	Body worn & Hotspot	QPSK	5	Front	26865	831.5	1	0	23.00	22.32	0.332	0.388		27.11	
AG.0	Main.1	Body worn & Hotspot	QPSK	5	Front	26865	831.5	36	0	22.00	21.34	0.367	0.427		25.69	
AG.0	Main.1	Hotspot	QPSK	5	Bottom	26865	831.5	1	0	23.00	22.32	0.373	0.436		26.60	
AG.0	Main.1	Hotspot	QPSK	5	Bottom	26865	831.5	36	0	22.00	21.34	0.402	0.468		25.30	29.67
AG.0	Main.1	Hotspot	QPSK	5	Right	26865	831.5	1	0	23.00	22.32	0.184	0.215		29.67	
AG.0	Main.1	Hotspot	QPSK	5	Right	26865	831.5	36	0	22.00	21.34	0.182	0.212		28.74	

10.11. LTE Band 66 (20MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	QPSK	0	Left Touch	132322	1745.0	1	49	25.00	23.33	0.117	0.172	21	32.65	32.44
AG.0	Main.2	Head	QPSK	0	Left Touch	132322	1745.0	50	24	24.00	22.22	0.095	0.143		32.44	
AG.0	Main.2	Head	QPSK	0	Left Tilt	132322	1745.0	1	49	25.00	23.33	0.042	0.062		37.10	
AG.0	Main.2	Head	QPSK	0	Left Tilt	132322	1745.0	50	24	24.00	22.22	0.036	0.054		36.66	
AG.0	Main.2	Head	QPSK	0	Right Touch	132322	1745.0	1	49	25.00	23.33	0.097	0.143		33.46	
AG.0	Main.2	Head	QPSK	0	Right Touch	132322	1745.0	50	24	24.00	22.22	0.078	0.118		33.30	
AG.0	Main.2	Head	QPSK	0	Right Tilt	132322	1745.0	1	49	25.00	23.33	0.044	0.064		36.90	
AG.0	Main.2	Head	QPSK	0	Right Tilt	132322	1745.0	50	24	24.00	22.22	0.046	0.069		35.59	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	132322	1745.0	1	49	20.00	18.18	0.516	0.785	22	21.05	21.05
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	132322	1745.0	50	24	20.00	18.16	0.503	0.768		21.14	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	132322	1745.0	1	49	20.00	18.18	0.233	0.354		24.51	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	132322	1745.0	50	24	20.00	18.16	0.234	0.357		24.47	
AG.0	Main.2	Hotspot	QPSK	5	Left	132322	1745.0	1	49	20.00	18.18	0.167	0.254		25.95	
AG.0	Main.2	Hotspot	QPSK	5	Left	132322	1745.0	50	24	20.00	18.16	0.169	0.258		25.88	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	132322	1745.0	1	49	20.00	18.18	0.358	0.544		22.64	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	132322	1745.0	50	24	20.00	18.16	0.366	0.559		22.53	

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.2	Head	QPSK	0	Left Touch	132322	1745	1	99	20.00	18.66	0.317	0.432		23.65	21.70
AG.1	Sub.2	Head	QPSK	0	Left Touch	132322	1745	50	50	20.00	18.64	0.312	0.427		23.70	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	132322	1745	1	99	20.00	18.66	0.351	0.478		23.21	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	132322	1745	50	50	20.00	18.64	0.352	0.481		23.17	
AG.1	Sub.2	Head	QPSK	0	Right Touch	132322	1745	1	99	20.00	18.66	0.497	0.677	23	21.70	
AG.1	Sub.2	Head	QPSK	0	Right Touch	132322	1745	50	50	20.00	18.64	0.493	0.674		21.71	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	132322	1745	1	99	20.00	18.66	0.491	0.668		21.75	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	132322	1745	50	50	20.00	18.64	0.464	0.635		21.97	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	132322	1745	1	99	20.00	18.66	0.573	0.780		21.08	19.85
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	132322	1745	50	50	20.00	18.64	0.563	0.770		21.13	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	132322	1745	1	99	20.00	18.66	0.242	0.329		24.82	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	132322	1745	50	50	20.00	18.64	0.242	0.331		24.80	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132072	1720	1	99	20.00	18.39	0.715	1.036	24	19.85	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132072	1720	50	50	20.00	18.36	0.696	1.015		19.93	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132322	1745	1	99	20.00	18.66	0.681	0.927		20.33	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132322	1745	50	50	20.00	18.64	0.678	0.927		20.33	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132572	1770	1	99	20.00	18.37	0.552	0.803		20.95	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132572	1770	50	50	20.00	18.50	0.595	0.840		20.75	
AG.1	Sub.2	Hotspot	QPSK	5	Top	132572	1770	100	0	20.00	18.57	0.727	1.010		19.95	
AG.1	Sub.2	Hotspot	QPSK	5	Left	132322	1745	1	99	20.00	18.66	0.090	0.123		29.12	
AG.1	Sub.2	Hotspot	QPSK	5	Left	132322	1745	50	50	20.00	18.64	0.090	0.123		29.10	

10.12. LTE Band 25 (20MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	QPSK	0	Left Touch	26590	1905.0	1	49	25.00	23.27	0.195	0.290	25	30.37	30.37
AG.0	Main.2	Head	QPSK	0	Left Touch	26590	1905.0	50	24	24.00	22.25	0.154	0.230		30.37	
AG.0	Main.2	Head	QPSK	0	Left Tilt	26590	1905.0	1	49	25.00	23.27	0.109	0.162		32.90	
AG.0	Main.2	Head	QPSK	0	Left Tilt	26590	1905.0	50	24	24.00	22.25	0.083	0.124		33.06	
AG.0	Main.2	Head	QPSK	0	Right Touch	26590	1905.0	1	49	25.00	23.27	0.132	0.197		32.06	
AG.0	Main.2	Head	QPSK	0	Right Touch	26590	1905.0	50	24	24.00	22.25	0.106	0.159		32.00	
AG.0	Main.2	Head	QPSK	0	Right Tilt	26590	1905.0	1	49	25.00	23.27	0.120	0.179		32.48	
AG.0	Main.2	Head	QPSK	0	Right Tilt	26590	1905.0	50	24	24.00	22.25	0.095	0.142		32.47	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	26590	1905.0	1	49	20.00	18.22	0.519	0.782		21.07	21.04
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	26590	1905.0	50	24	20.00	18.26	0.527	0.787	26	21.04	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	26590	1905.0	1	49	20.00	18.22	0.212	0.319		24.96	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	26590	1905.0	50	24	20.00	18.26	0.211	0.315		25.02	
AG.0	Main.2	Hotspot	QPSK	5	Left	26590	1905.0	1	49	20.00	18.22	0.326	0.491		23.09	
AG.0	Main.2	Hotspot	QPSK	5	Left	26590	1905.0	50	24	20.00	18.26	0.327	0.488		23.11	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	26590	1905.0	1	49	20.00	18.22	0.392	0.591		22.29	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	26590	1905.0	50	24	20.00	18.26	0.389	0.581		22.36	

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.2	Head	QPSK	0	Left Touch	26140	1860.0	1	49	20.00	18.10	0.232	0.359		24.45	21.79
AG.1	Sub.2	Head	QPSK	0	Left Touch	26140	1860.0	50	24	20.00	18.13	0.238	0.366		24.36	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	26140	1860.0	1	49	20.00	18.10	0.234	0.362		24.41	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	26140	1860.0	50	24	20.00	18.13	0.235	0.361		24.42	
AG.1	Sub.2	Head	QPSK	0	Right Touch	26140	1860.0	1	49	20.00	18.10	0.368	0.570		22.44	
AG.1	Sub.2	Head	QPSK	0	Right Touch	26140	1860.0	50	24	20.00	18.13	0.378	0.581		22.36	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	26140	1860.0	1	49	20.00	18.10	0.416	0.644		21.91	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	26140	1860.0	50	24	20.00	18.13	0.431	0.663	28	21.79	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26140	1860.0	1	49	21.00	20.09	0.629	0.776		22.10	21.06
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26140	1860.0	50	24	21.00	20.17	0.640	0.775		22.11	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26365	1882.5	1	49	21.00	19.92	0.697	0.894		21.49	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26365	1882.5	50	24	21.00	20.02	0.714	0.895		21.48	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26590	1905.0	1	49	21.00	19.90	0.643	0.828		21.82	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	26590	1905.0	50	24	21.00	19.99	0.639	0.806		21.93	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	26140	1860.0	1	49	21.00	20.09	0.366	0.451		24.46	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	26140	1860.0	50	24	21.00	20.17	0.379	0.459		24.38	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26140	1860.0	1	49	21.00	20.09	0.797	0.983		21.08	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26140	1860.0	50	24	21.00	20.17	0.814	0.985	28	21.06	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26140	1860.0	100	0	21.00	20.15	0.781	0.950		21.22	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26365	1882.5	1	49	21.00	19.92	0.749	0.960		21.18	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26365	1882.5	50	24	21.00	20.02	0.763	0.956		21.19	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26590	1905.0	1	49	21.00	19.90	0.708	0.912		21.40	
AG.1	Sub.2	Hotspot	QPSK	5	Top	26590	1905.0	50	24	21.00	19.99	0.747	0.943		21.26	
AG.1	Sub.2	Hotspot	QPSK	5	Left	26140	1860.0	1	49	21.00	20.09	0.131	0.162		28.92	
AG.1	Sub.2	Hotspot	QPSK	5	Left	26140	1860.0	50	24	21.00	20.17	0.124	0.150		29.24	

10.13. LTE Band 41 (20MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	QPSK	0	Left Touch	41055	2636.5	1	99	25.50	23.54	0.084	0.132	29	34.30	34.30
AG.0	Main.2	Head	QPSK	0	Left Touch	41055	2636.5	50	0	24.50	22.57	0.061	0.095		34.72	
AG.0	Main.2	Head	QPSK	0	Left Tilt	41055	2636.5	1	99	25.50	23.54	0.018	0.028		40.99	
AG.0	Main.2	Head	QPSK	0	Left Tilt	41055	2636.5	50	0	24.50	22.57	0.008	0.012		43.54	
AG.0	Main.2	Head	QPSK	0	Right Touch	41055	2636.5	1	99	25.50	23.54	0.034	0.054		38.23	
AG.0	Main.2	Head	QPSK	0	Right Touch	41055	2636.5	50	0	24.50	22.57	0.023	0.036		38.95	
AG.0	Main.2	Head	QPSK	0	Right Tilt	41055	2636.5	1	99	25.50	23.54	0.045	0.070		37.01	
AG.0	Main.2	Head	QPSK	0	Right Tilt	41055	2636.5	50	0	24.50	22.57	0.029	0.044		37.95	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	39750	2506.0	1	99	20.00	19.05	0.645	0.803		20.95	19.97
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	39750	2506.0	50	0	20.00	19.33	0.648	0.756		21.21	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	40185	2549.5	1	99	20.00	18.87	0.687	0.891		20.50	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	40185	2549.5	50	0	20.00	18.96	0.697	0.886		20.53	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	40620	2593.0	1	99	20.00	19.28	0.682	0.805		20.94	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	40620	2593.0	50	0	20.00	19.20	0.683	0.821		20.86	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	41055	2636.5	1	99	20.00	19.44	0.760	0.865		20.63	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	41055	2636.5	50	0	20.00	19.45	0.778	0.883		20.54	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	41055	2636.5	100	0	20.00	19.37	0.832	0.962		20.17	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	41490	2680.0	1	99	20.00	19.06	0.798	0.991		20.04	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Rear	41490	2680.0	50	0	20.00	19.31	0.859	1.007	30	19.97	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	41055	2636.5	1	99	20.00	19.44	0.258	0.294		25.32	
AG.0	Main.2	Body worn & Hotspot	QPSK	5	Front	41055	2636.5	50	0	20.00	19.45	0.253	0.287		25.42	
AG.0	Main.2	Hotspot	QPSK	5	Left	41055	2636.5	1	99	20.00	19.44	0.078	0.089		30.52	
AG.0	Main.2	Hotspot	QPSK	5	Left	41055	2636.5	50	0	20.00	19.45	0.087	0.099		30.05	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	39750	2506.0	1	99	20.00	19.05	0.400	0.498		23.03	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	39750	2506.0	50	0	20.00	19.33	0.402	0.469		23.29	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	40185	2549.5	1	99	20.00	18.87	0.456	0.592		22.28	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	40185	2549.5	50	0	20.00	18.96	0.452	0.574		22.41	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	40620	2593.0	1	99	20.00	19.28	0.463	0.546		22.62	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	40620	2593.0	50	0	20.00	19.20	0.459	0.552		22.58	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	41055	2636.5	1	99	20.00	19.44	0.562	0.639		21.94	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	41055	2636.5	50	0	20.00	19.45	0.564	0.640		21.94	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	41490	2680.0	1	99	20.00	19.06	0.543	0.674		21.71	
AG.0	Main.2	Hotspot	QPSK	5	Bottom	41490	2680.0	50	0	20.00	19.31	0.559	0.655		21.84	

Antenna Group	Antenna	RF Exposure Condition	DSI	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.	Part0 Plimit	Minimum Plimit
AG.1	Sub.2	Head	QPSK	0	Left Touch	40620	2593	1	0	20.00	19.28	0.128	0.151		28.21	25.60
AG.1	Sub.2	Head	QPSK	0	Left Touch	40620	2593	50	0	20.00	19.38	0.128	0.148		28.31	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	40620	2593	1	0	20.00	19.28	0.155	0.183		27.38	
AG.1	Sub.2	Head	QPSK	0	Left Tilt	40620	2593	50	0	20.00	19.38	0.159	0.183		27.37	
AG.1	Sub.2	Head	QPSK	0	Right Touch	40620	2593	1	0	20.00	19.28	0.233	0.275		25.61	
AG.1	Sub.2	Head	QPSK	0	Right Touch	40620	2593	50	0	20.00	19.38	0.235	0.271		25.67	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	40620	2593	1	0	20.00	19.28	0.229	0.270		25.68	
AG.1	Sub.2	Head	QPSK	0	Right Tilt	40620	2593	50	0	20.00	19.38	0.239	0.276	31	25.60	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	40620	2593	1	0	20.00	19.28	0.137	0.162		27.91	25.49
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Rear	40620	2593	50	0	20.00	19.38	0.140	0.161		27.92	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	40620	2593	1	0	20.00	19.28	0.098	0.116		29.37	
AG.1	Sub.2	Body worn & Hotspot	QPSK	5	Front	40620	2593	50	0	20.00	19.38	0.098	0.113		29.47	
AG.1	Sub.2	Hotspot	QPSK	5	Top	40620	2593	1	0	20.00	19.28	0.238	0.281		25.51	
AG.1	Sub.2	Hotspot	QPSK	5	Top	40620	2593	50	0	20.00	19.38	0.245	0.283	32	25.49	
AG.1	Sub.2	Hotspot	QPSK	5	Left	40620	2593	1	0	20.00	19.28	0.045	0.053		32.75	
AG.1	Sub.2	Hotspot	QPSK	5	Left	40620	2593	50	0	20.00	19.38	0.042	0.048		33.15	

10.14. NR Band n5 (20MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Left Touch	167300	836.5	1	1	25.80	25.28	0.168	0.189		33.03	31.51
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Left Touch	167300	836.5	50	28	25.80	25.11	0.169	0.198		32.83	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Left Tilt	167300	836.5	1	1	25.80	25.28	0.103	0.116		35.15	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Left Tilt	167300	836.5	50	28	25.80	25.11	0.100	0.117		35.11	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Right Touch	167300	836.5	1	1	25.80	25.28	0.225	0.254		31.76	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Right Touch	167300	836.5	50	28	25.80	25.11	0.229	0.268	33	31.51	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Right Tilt	167300	836.5	1	1	25.80	25.28	0.133	0.150		34.04	
AG.0	Main1	Head	DFS-s-OFDM QPSK	0	Right Tilt	167300	836.5	50	28	25.80	25.11	0.126	0.148		34.11	
AG.0	Main1	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	167300	836.5	1	1	24.50	24.36	0.948	0.979	34	24.59	23.54
AG.0	Main1	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	167300	836.5	50	28	24.50	24.21	0.911	0.974		24.61	
AG.0	Main1	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	167300	836.5	100	0	23.50	23.26	0.813	0.859		24.16	
AG.0	Main1	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	167300	836.5	1	1	24.50	24.36	0.481	0.497		27.54	
AG.0	Main1	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	167300	836.5	50	28	24.50	24.21	0.497	0.531		27.25	
AG.0	Main1	Hotspot	DFS-s-OFDM QPSK	5	Bottom	167300	836.5	1	1	24.50	24.36	0.647	0.668		26.25	
AG.0	Main1	Hotspot	DFS-s-OFDM QPSK	5	Bottom	167300	836.5	50	28	24.50	24.21	0.694	0.742		25.8	
AG.0	Main1	Hotspot	DFS-s-OFDM QPSK	5	Right	167300	836.5	1	1	24.50	24.36	0.280	0.289		29.89	
AG.0	Main1	Hotspot	DFS-s-OFDM QPSK	5	Right	167300	836.5	50	28	24.50	24.21	0.256	0.274		30.13	
AG.0	Main1	Body worn & Hotspot	CP-OFDM QPSK	5	Rear	167300	836.5	1	1	23.00	22.82	0.847	0.883		23.54	
AG.0	Main1	Head	CP-OFDM QPSK	0	RightTouch	167300	836.5	1	1	24.30	23.73	0.142	0.151		32.21	

Note(s):

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

10.15. NR Band n66 (40MHz Bandwidth)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Touch	349000	1745.0	1	107	25.00	23.67	0.035	0.048		38.23	34.09
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Touch	349000	1745.0	108	54	25.00	23.64	0.035	0.048		38.20	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	349000	1745.0	1	107	25.00	23.67	0.013	0.018		42.53	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	349000	1745.0	108	54	25.00	23.64	0.013	0.018		42.50	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Touch	349000	1745.0	1	107	25.00	23.67	0.084	0.114	35	34.43	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Touch	349000	1745.0	108	54	25.00	23.64	0.083	0.114		34.45	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	349000	1745.0	1	107	25.00	23.67	0.048	0.065		36.86	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	349000	1745.0	108	54	25.00	23.64	0.048	0.066		36.83	
AG.0	Main.2	Head	CP-OFDM QPSK	0	RightTouch	349000	1745.0	1	1	23.50	22.15	0.064	0.087		34.09	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	349000	1745.0	1	107	20.00	19.01	0.592	0.744		21.29	21.10
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	349000	1745.0	108	54	20.00	19.02	0.620	0.777	36	21.10	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	349000	1745.0	1	107	20.00	19.01	0.230	0.289		25.39	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	349000	1745.0	108	54	20.00	19.02	0.239	0.300		25.24	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Left	349000	1745.0	1	107	20.00	19.01	0.163	0.205		26.89	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Left	349000	1745.0	108	54	20.00	19.02	0.171	0.214		26.69	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Bottom	349000	1745.0	1	107	20.00	19.01	0.323	0.406		23.92	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Bottom	349000	1745.0	108	54	20.00	19.02	0.334	0.419		23.78	
AG.0	Main.2	Body worn & Hotspot	CP-OFDM QPSK	5	Rear	349000	1745.0	1	1	20.00	18.92	0.481	0.617		22.10	

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Left Touch	349000	1745.0	1	107	19.00	18.20	0.364	0.438		22.59	20.68
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Left Touch	349000	1745.0	108	54	19.00	18.28	0.338	0.399		22.99	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	349000	1745.0	1	107	19.00	18.20	0.390	0.469		22.29	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	349000	1745.0	108	54	19.00	18.28	0.390	0.460		22.37	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Right Touch	349000	1745.0	1	107	19.00	18.20	0.519	0.624		21.05	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Right Touch	349000	1745.0	108	54	19.00	18.28	0.524	0.618		21.09	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	349000	1745.0	1	107	19.00	18.20	0.561	0.674		20.71	
AG.1	Sub.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	349000	1745.0	108	54	19.00	18.28	0.575	0.679	37	20.68	
AG.1	Sub.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	349000	1745.0	1	107	20.00	19.32	0.774	0.905		20.43	19.91
AG.1	Sub.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	349000	1745.0	108	54	20.00	19.41	0.790	0.905		20.43	
AG.1	Sub.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	349000	1745.0	216	0	20.00	19.38	0.524	0.604		22.19	
AG.1	Sub.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	349000	1745.0	1	107	20.00	19.32	0.341	0.399		23.99	
AG.1	Sub.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	349000	1745.0	108	54	20.00	19.41	0.349	0.400		23.98	
AG.1	Sub.2	Hotspot	DFS-s-OFDM QPSK	5	Top	349000	1745.0	1	107	20.00	19.32	0.846	0.989		20.05	
AG.1	Sub.2	Hotspot	DFS-s-OFDM QPSK	5	Top	349000	1745.0	108	54	20.00	19.41	0.891	1.021	38	19.91	
AG.1	Sub.2	Hotspot	DFS-s-OFDM QPSK	5	Top	349000	1745.0	216	0	20.00	19.38	0.858	0.990		20.05	
AG.1	Sub.2	Hotspot	DFS-s-OFDM QPSK	5	Left	349000	1745.0	1	107	20.00	19.32	0.111	0.130		28.87	
AG.1	Sub.2	Hotspot	DFS-s-OFDM QPSK	5	Left	349000	1745.0	108	54	20.00	19.41	0.114	0.131		28.84	
AG.1	Sub.2	Head	CP-OFDM QPSK	0	RightTouch	349000	1745.0	1	1	19.00	18.15	0.529	0.643		20.92	
AG.1	Sub.2	Body worn & Hotspot	CP-OFDM QPSK	15	Top	349000	1745.0	1	1	20.00	19.41	0.867	0.993		20.03	

Note(s):

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

10.16. NR Band n41 (100MHz Bandwidth)**(Voice/Data/SRS1)**

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Touch	518598	2592.99	1	271	25.50	24.30	0.068	0.090	39	35.97	35.97
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Touch	518598	2592.99	135	69	25.50	24.30	0.067	0.088		36.04	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	518598	2592.99	1	271	25.50	24.30	0.017	0.022		42.00	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Left Tilt	518598	2592.99	135	69	25.50	24.30	0.014	0.018		42.84	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Touch	518598	2592.99	1	271	25.50	24.30	0.049	0.065		37.40	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Touch	518598	2592.99	135	69	25.50	24.30	0.042	0.055		38.07	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	518598	2592.99	1	271	25.50	24.30	0.044	0.058		37.87	
AG.0	Main.2	Head	DFS-s-OFDM QPSK	0	Right Tilt	518598	2592.99	135	69	25.50	24.30	0.044	0.058		37.87	18.52
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	518598	2592.99	1	271	18.00	16.81	0.675	0.888	40	18.52	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	518598	2592.99	135	69	18.00	16.61	0.588	0.810		18.92	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	518598	2592.99	270	0	18.00	16.63	0.590	0.809		18.92	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	518598	2592.99	1	271	18.00	16.81	0.216	0.284		23.47	
AG.0	Main.2	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	518598	2592.99	135	69	18.00	16.61	0.206	0.284		23.47	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Left	518598	2592.99	1	271	18.00	16.81	0.059	0.078		29.10	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Left	518598	2592.99	135	69	18.00	16.61	0.053	0.073		29.37	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Bottom	518598	2592.99	1	271	18.00	16.81	0.477	0.627		20.02	
AG.0	Main.2	Hotspot	DFS-s-OFDM QPSK	5	Bottom	518598	2592.99	135	69	18.00	16.61	0.468	0.645		19.91	
AG.0	Main.2	Head	CP-OFDM QPSK	0	Left Touch	518598	2592.99	1	1	24.50	24.00	0.021	0.024		40.78	
AG.0	Main.2	Body worn & Hotspot	CP-OFDM QPSK	5	Rear	518598	2592.99	1	1	18.00	16.72	0.507	0.681		19.67	

(SRS2/SRS3/SRS4)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.2	Head	CW	0	Left Touch	518598	2592.99	19.00	18.20	0.244	0.293		24.33	21.29
AG.1	Sub.2	Head	CW	0	Left Tilt	518598	2592.99	19.00	18.20	0.287	0.345		23.62	
AG.1	Sub.2	Head	CW	0	Right Touch	518598	2592.99	19.00	18.20	0.401	0.482		22.17	
AG.1	Sub.2	Head	CW	0	Right Tilt	518598	2592.99	19.00	18.20	0.491	0.590	41	21.29	
AG.1	Sub.2	Body worn & Hotspot	CW	5	Rear	518598	2592.99	19.00	18.20	0.380	0.457		22.40	21.89
AG.1	Sub.2	Body worn & Hotspot	CW	5	Front	518598	2592.99	19.00	18.20	0.172	0.207		25.84	
AG.1	Sub.2	Hotspot	CW	5	Top	518598	2592.99	19.00	18.20	0.428	0.515		21.89	
AG.1	Sub.2	Hotspot	CW	5	Left	518598	2592.99	19.00	18.20	0.070	0.084		29.75	

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.4	Head	CW	0	Left Touch	518598	2592.99	14.00	12.60	0.264	0.364		18.38	16.32
AG.1	Sub.4	Head	CW	0	Left Tilt	518598	2592.99	14.00	12.60	0.182	0.251		20.00	
AG.1	Sub.4	Head	CW	0	Right Touch	518598	2592.99	14.00	12.60	0.425	0.587		16.32	
AG.1	Sub.4	Head	CW	0	Right Tilt	518598	2592.99	14.00	12.60	0.135	0.186		21.30	
AG.1	Sub.4	Body worn & Hotspot	CW	5	Rear	518598	2592.99	14.00	12.60	0.361	0.498		17.02	16.19
AG.1	Sub.4	Body worn & Hotspot	CW	5	Front	518598	2592.99	14.00	12.60	0.226	0.312		19.06	
AG.1	Sub.4	Hotspot	CW	5	Top	518598	2592.99	14.00	12.60	0.200	0.276		19.59	
AG.1	Sub.4	Hotspot	CW	5	Left	518598	2592.99	14.00	12.60	0.438	0.605	42	16.19	

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Sub.1	Head	CW	0	Left Touch	518598	2592.99	15.00	13.30	0.165	0.244		21.13	20.80
AG.0	Sub.1	Head	CW	0	Left Tilt	518598	2592.99	15.00	13.30	0.178	0.263		20.80	
AG.0	Sub.1	Head	CW	0	Right Touch	518598	2592.99	15.00	13.30	0.062	0.092		25.37	
AG.0	Sub.1	Head	CW	0	Right Tilt	518598	2592.99	15.00	13.30	0.078	0.115		24.39	
AG.0	Sub.1	Body worn & Hotspot	CW	5	Rear	518598	2592.99	15.00	13.30	0.247	0.365		19.37	18.63
AG.0	Sub.1	Body worn & Hotspot	CW	5	Front	518598	2592.99	15.00	13.30	0.106	0.157		23.05	
AG.0	Sub.1	Hotspot	CW	5	Top	518598	2592.99	15.00	13.30	0.293	0.433		18.63	
AG.0	Sub.1	Hotspot	CW	5	Right	518598	2592.99	15.00	13.30	0.029	0.043		28.68	

Notes:

- NR TDD mode were measured output power through test mode software provided by manufacturer.
- CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in each exposure conditions.

10.17. NR Band n77 (100MHz Bandwidth)**(Voice/data/SRS1)**

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Left Touch	650000	3750.00	1	1	13.50	12.16	0.155	0.211		20.26	15.89
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Left Touch	650000	3750.00	135	0	13.50	12.14	0.137	0.187		20.77	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Left Tilt	650000	3750.00	1	1	13.50	12.16	0.097	0.132		22.29	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Left Tilt	650000	3750.00	135	0	13.50	12.14	0.090	0.123		22.60	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Touch	633334	3500.01	1	1	13.50	12.41	0.412	0.530		16.26	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Touch	633334	3500.01	135	0	13.50	12.27	0.435	0.577	43	15.89	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Touch	650000	3750.00	1	1	13.50	12.16	0.287	0.391		17.58	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Touch	650000	3750.00	135	0	13.50	12.14	0.275	0.376		17.75	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Tilt	650000	3750.00	1	1	13.50	12.16	0.167	0.227		19.93	
AG.1	Sub.3	Head	DFS-s-OFDM QPSK	0	Right Tilt	650000	3750.00	135	0	13.50	12.14	0.155	0.212		20.24	16.99
AG.1	Sub.3	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	650000	3750.00	1	1	15.00	13.53	0.213	0.299		20.25	
AG.1	Sub.3	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Rear	650000	3750.00	135	0	15.00	13.49	0.204	0.289		20.39	
AG.1	Sub.3	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	650000	3750.00	1	1	15.00	13.53	0.130	0.182		22.39	
AG.1	Sub.3	Body worn & Hotspot	DFS-s-OFDM QPSK	5	Front	650000	3750.00	135	0	15.00	13.49	0.121	0.171		22.66	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Top	650000	3750.00	1	1	15.00	13.53	0.213	0.299		20.25	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Top	650000	3750.00	135	0	15.00	13.49	0.205	0.290		20.37	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	633334	3500.01	1	1	15.00	13.84	0.484	0.632	44	16.99	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	633334	3500.01	135	0	15.00	13.70	0.454	0.612		17.13	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	650000	3750.00	1	1	15.00	13.53	0.319	0.447		18.49	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	650000	3750.00	135	0	15.00	13.49	0.304	0.430		18.66	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	662000	3930.00	1	1	15.00	13.14	0.297	0.456		18.41	
AG.1	Sub.3	Hotspot	DFS-s-OFDM QPSK	5	Left	662000	3930.00	135	0	15.00	13.05	0.308	0.483		18.16	
AG.1	Sub.3	Head	CP-OFDM QPSK	0	Right Touch	633334	3500.01	1	1	13.50	12.41	0.419	0.539		16.19	
AG.1	Sub.3	Hotspot	CP-OFDM QPSK	5	Left	633334	3500.01	1	1	15.00	13.79	0.464	0.613		17.12	

(SRS2/SRS3/SRS4)

Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.0	Main.2	Head	CW	0	Left Touch	650000	3750.00	17.00	16.26	0.000	0.000		46.26	45.88
AG.0	Main.2	Head	CW	0	Left Tilt	650000	3750.00	17.00	16.26	0.000	0.000		46.26	
AG.0	Main.2	Head	CW	0	Right Touch	650000	3750.00	17.00	16.26	0.000	0.000		46.26	
AG.0	Main.2	Head	CW	0	Right Tilt	633334	3500.01	17.00	15.88	0.000	0.000		45.88	
AG.0	Main.2	Head	CW	0	Right Tilt	650000	3750.00	17.00	16.26	0.000	0.000		46.26	23.78
AG.0	Main.2	Body worn & Hotspot	CW	5	Rear	650000	3750.00	18.00	17.16	0.208	0.252		23.98	
AG.0	Main.2	Body worn & Hotspot	CW	5	Front	650000	3750.00	18.00	17.16	0.152	0.184		25.34	
AG.0	Main.2	Hotspot	CW	5	Left	650000	3750.00	18.00	17.16	0.015	0.018		35.40	
AG.0	Main.2	Hotspot	CW	5	Bottom	633334	3500.01	18.00	16.93	0.161	0.206		24.86	
AG.0	Main.2	Hotspot	CW	5	Bottom	650000	3750.00	18.00	17.16	0.218	0.265		23.78	
Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.7	Head	CW	0	Left Touch	650000	3750.00	17.00	16.78	0.003	0.003		42.01	27.32
AG.1	Sub.7	Head	CW	0	Left Tilt	650000	3750.00	17.00	16.78	0.002	0.002		43.77	
AG.1	Sub.7	Head	CW	0	Right Touch	633334	3500.01	17.00	16.72	0.087	0.093		27.32	
AG.1	Sub.7	Head	CW	0	Right Touch	650000	3750.00	17.00	16.78	0.009	0.009		37.24	
AG.1	Sub.7	Head	CW	0	Right Tilt	650000	3750.00	17.00	16.78	0.000	0.000		46.78	
AG.1	Sub.7	Body worn & Hotspot	CW	5	Rear	633334	3500.01	17.00	16.72	0.699	0.746	45	18.28	18.28
AG.1	Sub.7	Body worn & Hotspot	CW	5	Rear	650000	3750.00	17.00	16.78	0.697	0.733		18.35	
AG.1	Sub.7	Body worn & Hotspot	CW	5	Rear	662000	3930.00	17.00	15.78	0.404	0.535		19.72	
AG.1	Sub.7	Body worn & Hotspot	CW	5	Front	650000	3750.00	17.00	16.78	0.083	0.087		27.59	
AG.1	Sub.7	Hotspot	CW	5	Top	650000	3750.00	17.00	16.78	0.195	0.205		23.88	
AG.1	Sub.7	Hotspot	CW	5	Right	650000	3750.00	17.00	16.78	0.068	0.072		28.45	
Antenna Group	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)	Plot No.	Part0 Plimit	Minimum Plimit
AG.1	Sub.8	Head	CW	0	Left Touch	662000	3930.00	17.00	16.33	0.077	0.090		27.47	25.26
AG.1	Sub.8	Head	CW	0	Left Tilt	662000	3930.00	17.00	16.33	0.089	0.104		26.84	
AG.1	Sub.8	Head	CW	0	Right Touch	633334	3500.01	17.00	15.58	0.009	0.012		36.04	
AG.1	Sub.8	Head	CW	0	Right Touch	662000	3930.00	17.00	16.33	0.128	0.149	46	25.26	
AG.1	Sub.8	Head	CW	0	Right Tilt	662000	3930.00	17.00	16.33	0.127	0.148		25.29	
AG.1	Sub.8	Body worn & Hotspot	CW	5	Rear	633334	3500.01	17.00	15.58	0.205	0.284		22.46	21.81
AG.1	Sub.8	Body worn & Hotspot	CW	5	Rear	662000	3930.00	17.00	16.33	0.283	0.330		21.81	
AG.1	Sub.8	Body worn & Hotspot	CW	5	Front	662000	3930.00	17.00	16.33	0.036	0.042		30.77	
AG.1	Sub.8	Hotspot	CW	5	Top	662000	3930.00	17.00	16.33	0.152	0.177		24.51	
AG.1	Sub.8	Hotspot	CW	5	Left	662000	3930.00	17.00	16.33	0.000	0.000		46.33	

Note(s):

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

10.18. Wi-Fi (DTS Band)**DTS SISO SAR results**

Antenna	Frequency Band	Mode	RF Exposure Condition	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)	Plot No.	Note
WLAN SISO Sub.4	2.4GHz	802.11b 1Mbps	Head	0	Left Touch	11	2462.0	0.071	98.78	13.00	12.13				
			Head	0	Left Tilt	11	2462.0	0.041	98.78	13.00	12.13				
			Head	0	Right Touch	11	2462.0	0.379	98.78	13.00	12.13	0.218	0.270	47	1
			Head	0	Right Tilt	11	2462.0	0.129	98.78	13.00	12.13				
			Body worn & Hotspot	5	Rear	11	2437.0	0.455	98.78	16.00	15.28	0.332	0.397		2
			Body worn & Hotspot	5	Front	11	2437.0	0.482	98.78	16.00	15.28				
			Hotspot	5	Top	11	2437.0	0.141	98.78	16.00	15.28				
			Hotspot	5	Left	11	2437.0	0.670	98.78	16.00	15.28	0.439	0.525	48	
WLAN SISO Sub.6	2.4GHz	802.11b 1Mbps	Head	0	Left Touch	11	2462.0	0.104	98.78	12.00	11.08				
			Head	0	Left Tilt	11	2462.0	0.015	98.78	12.00	11.08				
			Head	0	Right Touch	11	2462.0	0.140	98.78	12.00	11.08	0.091	0.113		1
			Head	0	Right Tilt	11	2462.0	0.008	98.78	12.00	11.08				
			Body worn & Hotspot	5	Rear	11	2462.0	0.259	98.78	15.00	14.23				
			Body worn & Hotspot	5	Front	11	2462.0	0.269	98.78	15.00	14.23				
			Hotspot	5	Right	11	2462.0	0.566	98.78	15.00	14.23	0.297	0.359		1

DTS MIMO SAR results

Antenna	Frequency Band	Mode	RF Exposure Condition	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)	Plot No.	Note.
WLAN MIMO Sub.4	2.4GHz	802.11g 6Mbps	Head	0	Left Touch	6	2437.0	0.095	96.49	13.00	12.32				
			Head	0	Left Tilt	6	2437.0	0.037	96.49	13.00	12.32				
			Head	0	Right Touch	6	2437.0	0.251	96.49	13.00	12.32	0.159	0.193	49	1
			Head	0	Right Tilt	6	2437.0	0.090	96.49	13.00	12.32				
			Body worn & Hotspot	5	Rear	6	2437.0	0.542	96.49	16.00	15.26	0.331	0.407		2
			Body worn & Hotspot	5	Front	6	2437.0	0.380	96.49	16.00	15.26	0.208	0.256		4
			Hotspot	5	Top	6	2437.0	0.094	96.49	16.00	15.26				
			Hotspot	5	Left	6	2437.0	0.773	96.49	16.00	15.26	0.489	0.601	50	
WLAN MIMO Sub.6	2.4GHz	802.11g 6Mbps	Head	0	Left Touch	6	2437.0	0.095	96.49	12.00	10.57				
			Head	0	Left Tilt	6	2437.0	0.037	96.49	12.00	10.57				
			Head	0	Right Touch	6	2437.0	0.251	96.49	12.00	10.57	0.074	0.107		
			Head	0	Right Tilt	6	2437.0	0.090	96.49	12.00	10.57				
			Body worn & Hotspot	5	Rear	6	2437.0	0.542	96.49	15.00	13.62	0.151	0.215		
			Body worn & Hotspot	5	Front	6	2437.0	0.380	96.49	15.00	13.62				
			Hotspot	5	Top	6	2437.0	0.094	96.49	15.00	13.62	0.055	0.078		4
			Hotspot	5	Left	6	2437.0	0.773	96.49	15.00	13.62	0.113	0.161		

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.

10.19. Wi-Fi (U-NII Bands)

U-NII 2A MIMO Sub.3+5 SAR results

Antenna	RF Exposure Condition	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)	Plot No.	Note
Sub.3 + 5	MIMO Sub.3	Head	802.11ac VHT80	0	Left Touch	58	5290.0	0.087	86.1	9.00	8.50			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	58	5290.0	0.072	86.1	9.00	8.50			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	58	5290.0	0.227	86.1	9.00	8.50			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	58	5290.0	0.107	86.1	9.00	8.50			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Rear	58	5290.0	0.306	86.1	11.00	9.30			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Front	58	5290.0	0.227	86.1	11.00	9.30			
Sub.3 + 5		Near Body	802.11ac VHT80	5	Top	58	5290.0	0.106	86.1	11.00	9.30	0.077	0.132	4
Sub.3 + 5		Near Body	802.11ac VHT80	5	Left	58	5290.0	0.435	86.1	11.00	9.30			
Sub.3 + 5	MIMO Sub.5	Head	802.11ac VHT80	0	Left Touch	58	5290.0	0.087	86.1	9.00	7.91			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	58	5290.0	0.072	86.1	9.00	7.91			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	58	5290.0	0.227	86.1	9.00	7.91	0.162	0.242	51
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	58	5290.0	0.107	86.1	9.00	7.91			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Rear	58	5290.0	0.306	86.1	11.00	10.08	0.237	0.340	52
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Front	58	5290.0	0.227	86.1	11.00	10.08	0.170	0.244	4
Sub.3 + 5		Near Body	802.11ac VHT80	5	Top	58	5290.0	0.106	86.1	11.00	10.08			
Sub.3 + 5		Near Body	802.11ac VHT80	5	Left	58	5290.0	0.435	86.1	11.00	10.08	0.352	0.505	53

U-NII 2C MIMO Sub.3+5 SAR results

Antenna	RF Exposure Condition	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)	Plot No.	Note
Sub.3 + 5	MIMO Sub.3	Head	802.11ac VHT80	0	Left Touch	106	5530.0	0.069	86.1	9.00	8.10			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	106	5530.0	0.075	86.1	9.00	8.10			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	106	5530.0	0.333	86.1	9.00	8.10			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	106	5530.0	0.164	86.1	9.00	8.10			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Rear	106	5530.0	0.351	86.1	11.00	9.70	0.264	0.414	54
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Front	106	5530.0	0.338	86.1	11.00	9.70			
Sub.3 + 5		Near Body	802.11ac VHT80	5	Top	106	5530.0	0.142	86.1	11.00	9.70	0.110	0.172	4
Sub.3 + 5		Near Body	802.11ac VHT80	5	Left	106	5530.0	0.801	86.1	11.00	9.70			
Sub.3 + 5	MIMO Sub.5	Head	802.11ac VHT80	0	Left Touch	106	5530.0	0.069	86.1	9.00	8.15			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	106	5530.0	0.075	86.1	9.00	8.15			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	106	5530.0	0.333	86.1	9.00	8.15	0.248	0.350	55
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	106	5530.0	0.164	86.1	9.00	8.15			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Rear	106	5530.0	0.351	86.1	11.00	10.10			
Sub.3 + 5		Body worn & Near Body	802.11ac VHT80	5	Front	106	5530.0	0.338	86.1	11.00	10.10	0.199	0.284	4
Sub.3 + 5		Near Body	802.11ac VHT80	5	Top	106	5530.0	0.142	86.1	11.00	10.10			
Sub.3 + 5		Near Body	802.11ac VHT80	5	Left	106	5530.0	0.801	86.1	11.00	10.10	0.392	0.560	56

U-NII 3 MIMO Sub.3+5 SAR results

Antenna	RF Exposure Condition	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)	Plot No.	Note
Sub.3 + 5	MIMO Sub.3	Head	802.11ac VHT80	0	Left Touch	155	5775.0	0.113	86.1	9.00	7.87			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	155	5775.0	0.087	86.1	9.00	7.87			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	155	5775.0	0.416	86.1	9.00	7.87			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	155	5775.0	0.227	86.1	9.00	7.87			
Sub.3 + 5		Body worn & Hotspot	802.11ac VHT80	5	Rear	155	5775.0	0.390	86.1	11.00	10.50	0.290	0.378	57
Sub.3 + 5		Body worn & Hotspot	802.11ac VHT80	5	Front	155	5775.0	0.333	86.1	11.00	10.50			
Sub.3 + 5		Hotspot	802.11ac VHT80	5	Top	155	5775.0	0.164	86.1	11.00	10.50	0.085	0.111	4
Sub.3 + 5		Hotspot	802.11ac VHT80	5	Left	155	5775.0	0.728	86.1	11.00	10.50	0.531	0.692	58
Sub.3 + 5	MIMO Sub.5	Head	802.11ac VHT80	0	Left Touch	155	5775.0	0.113	86.1	9.00	8.47			
Sub.3 + 5		Head	802.11ac VHT80	0	Left Tilt	155	5775.0	0.087	86.1	9.00	8.47			
Sub.3 + 5		Head	802.11ac VHT80	0	Right Touch	155	5775.0	0.416	86.1	9.00	8.47	0.278	0.365	59
Sub.3 + 5		Head	802.11ac VHT80	0	Right Tilt	155	5775.0	0.227	86.1	9.00	8.47			
Sub.3 + 5		Body worn & Hotspot	802.11ac VHT80	5	Rear	155	5775.0	0.390	86.1	11.00	10.10			
Sub.3 + 5		Body worn & Hotspot	802.11ac VHT80	5	Front	155	5775.0	0.333	86.1	11.00	10.10	0.236	0.337	4
Sub.3 + 5		Hotspot	802.11ac VHT80	5	Top	155	5775.0	0.164	86.1	11.00	10.10			
Sub.3 + 5		Hotspot	802.11ac VHT80	5	Left	155	5775.0	0.728	86.1	11.00	10.10			

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.
- UNII-1 Hotspot mode is included in UNII-2A's Body SAR results.

10.20. Bluetooth**Bluetooth SAR results**

Antenna	Frequency Band	Mode	RF Exposure Condition	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.
BT SISO SUB.4	2.4GHz	LE 1Mbps 255pkt	Head	0	Left Touch	19	2440	85.44	13.50	12.38	0.025	0.033	
			Head	0	Left Tilt	19	2440	85.44	13.50	12.38	0.015	0.020	
			Head	0	Right Touch	19	2440	85.44	13.50	12.38	0.145	0.191	60
			Head	0	Right Tilt	19	2440	85.44	13.50	12.38	0.048	0.063	
			Body worn & Hotsopt	5	Rear	19	2440	85.44	13.50	12.38	0.139	0.183	
			Body worn & Hotsopt	5	Front	19	2440	85.44	13.50	12.38	0.043	0.056	
			Hotsopt	5	Top	19	2440	85.44	13.50	12.38	0.026	0.035	
			Hotsopt	5	Left	19	2440	85.44	13.50	12.38	0.153	0.201	61
BT SISO SUB.6	2.4GHz	LE 1Mbps 255pkt	Head	0	Left Touch	19	2440	85.44	11.50	10.04	0.021	0.030	
			Head	0	Left Tilt	19	2440	85.44	11.50	10.04	0.002	0.003	
			Head	0	Right Touch	19	2440	85.44	11.50	10.04	0.052	0.075	
			Head	0	Right Tilt	19	2440	85.44	11.50	10.04	0.036	0.052	
			Body worn & Hotsopt	5	Rear	19	2440	85.44	11.50	10.04	0.036	0.051	
			Body worn & Hotsopt	5	Front	19	2440	85.44	11.50	10.04	0.025	0.036	
			Hotsopt	5	Right	19	2440	85.44	11.50	10.04	0.036	0.051	

10.21. NFC

Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Test setup		Freq. (MHz)	1-g SAR (W/kg)	Plot No.
				Type	Bitrate		Meas.	
PBRS	Near Body	5	Rear	A	106	13.56	0.032	62
			Front	A	106	13.56	0.000	
			Top	A	106	13.56	0.000	
			Left	A	106	13.56	0.000	

11. SAR Measurement Variability

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

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

Peak spatial-average (1g of tissue)

Frequency Band (MHz)	Air Interface	Antenna	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
835	LTE Band 5	Main.1	Body Worn & Hotspot	Rear	Yes	0.959	0.943	1.02
1750	NR Band n66	Sub.2	Hotspot	Top	Yes	0.891	0.838	1.06
1900	WCDMA Band 2	Main.2	Body Worn & Hotspot	Rear	Yes	0.980	0.895	1.09
2600	LTE Band 41	Main.2	Body Worn & Hotspot	Rear	Yes	0.859	0.787	1.09

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			
Head & Body-worn/Hotspot & Near body	1	WWAN (2G/3G/LTE/NR)	+	BT Ant.1 (Sub.4)	or BT Ant.2 (Sub.6)
	2	WWAN (2G/3G/LTE/NR)	+	DTS MIMO	
	3	WWAN (2G/3G/LTE/NR)	+	UNII MIMO	
	4	WWAN (2G/3G/LTE/NR)	+	DTS Ant.2 (Sub.6)	+ BT Ant.1 (Sub.4)
	5	WWAN (2G/3G/LTE/NR)	+	UNII MIMO	+ BT Ant.1 (Sub.4) or BT Ant.2 (Sub.2)
	6	(ENDC/ULCA)	+	BT Ant.1 (Sub.4)	or BT Ant.2 (Sub.6)
	7	(ENDC/ULCA)	+	DTS MIMO	
	8	(ENDC/ULCA)	+	UNII MIMO	
	9	(ENDC/ULCA)	+	DTS Ant.1 (Sub.4)	+ BT Ant.2 (Sub.6)
	10	(ENDC/ULCA)	+	UNII MIMO	+ BT Ant.1 (Sub.4) or BT Ant.2 (Sub.2)
	11	Item (1-10) + NFC in Near body 1-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(Only Ant.1) can transmit simultaneously with Bluetooth Radio(Only Ant.2).
6. NR Radio support to both SA and NSA(ENDC) Radio.
7. BT tethering is considered about each RF exposure conditions.
8. LTE/NR supports UL CA configuration.
9. DTS supports SISO/MIMO mode.
10. UNII supports only MIMO mode.

Note(s):

Qualcomm Smart Transmit algorithm support to WWAN except WLAN/BT/NFC. And This device has support two Antenna groups. Each antenna group has controlled the total RF exposure from all transmitters 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 satisfy simultaneous transmission analysis with External radios (WLAN/BT/NFC) in Part.1 report.

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

Simultaneous transmission SAR test exclusion considerations;

Sum of SAR

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

SAR to Peak Location Ratio (SPLSR)

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

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

Where:

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

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

R_i is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$$

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

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

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

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

The antennas for the unlicensed transmitters are closely situated. As a result, the associated SAR hotspots are also closely situated. Some of the sum of SAR calculations yielded results over 1.6 W/kg. The SPLSR calculations for these situations were performed by treating the unlicensed SAR values as a single transmitter. The most conservative distance between all the unlicensed hotspots to the licensed hotspot was used for the value of *d* in the SPLSR calculation.

Sum to Peak Location Separation Ratio

Instead of doing a small volume scan over a co-located antenna pair (Hybrid SPLSR guide), Simultaneous transmission SAR test exclusion may algebraically sum the SAR values of the co-located pair and use that value in SPLSR calculation.

In the calculation Separation distance must use the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

Antenna grouping consideration with ER(External Ratio)

The 2nd Generation of Smart Transmit (GEN2.4+) with GEN2_SUB6 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.

DSINo.	Antenna Groups	Grouped antenna list				
DSI= 0,2,3,4	AG0	Main.1	Main.2			
	AG1	Sub.2	Sub.3	Sub.4	Sub.7	Sub.8
	ER(s)	WLAN / BT Ant.	NFC Ant.			
ER = Exteral radios/antennas suppoed 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. Head (DSI=2) exposure Analysis

Condition#1 (Sum of SAR)

AG0's worst configuration

Antenna Group		AG0	AG0	AG0
Antenna		Main.1	Main.2	Highest Reported SAR
RF exposure	Test position	Reported SAR	Reported SAR	
Head	Left touch	0.322	0.359	0.359
	Left Tilt	0.222	0.222	0.222
	Right Touch	0.361	0.352	0.361
	Right Tilt	0.211	0.258	0.258

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Sub. 1	Sub. 2	Sub. 3	Sub. 4	Sub. 7	Sub. 8	Highest Reported SAR
RF exposure	Test position	Reported SAR	Reported SAR	Reported SAR	Reported SAR	Reported SAR	Reported SAR	
Head	Left touch	0.244	0.438	0.211	0.364	0.003	0.090	0.438
	Left Tilt	0.263	0.481	0.132	0.251	0.002	0.104	0.481
	Right Touch	0.092	0.677	0.577	0.587	0.093	0.149	0.677
	Right Tilt	0.115	0.679	0.227	0.186	0.000	0.148	0.679

ER's worst configuration

RF exposure	Test positions	ER's standalone SAR (W/kg)						ER's normal mode simultaneous SAR (W/kg)			
		BT Ant.1	BT Ant.2	2.4GHz Ant.1	2.4GHz Ant.2	2.4GHz MIMO	5GHz MIMO	2.4GHz Ant.2+ BT Ant.1	5GHz MIMO + BT Ant.1	5GHz MIMO + BT Ant.2	Worst case Combination
		Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	
Head Reported SAR	Left touch	0.033	0.030	0.270	0.113	0.193	0.365	0.146	0.398	0.395	0.398
	Left Tilt	0.020	0.003	0.270	0.113	0.193	0.365	0.133	0.385	0.368	0.385
	Right Touch	0.191	0.075	0.270	0.113	0.193	0.365	0.304	0.556	0.440	0.556
	Right Tilt	0.063	0.052	0.270	0.113	0.193	0.365	0.176	0.428	0.417	0.428

AG0 + AG1 + ER summation results

Antenna Group		AG0	AG1	AG1	AG0 + AG1 + ER	FCC SAR Limit
Antenna		All	All	All		
RF exposure	Test position	AG0	AG1	ER		
Head	Left touch	0.359	0.438	0.398	1.195	1.600
	Left Tilt	0.222	0.481	0.385	1.088	
	Right Touch	0.361	0.677	0.556	1.594	
	Right Tilt	0.258	0.679	0.428	1.365	

Note(s):

Additional evaluation is not required due to below FCC SAR limit.

12.2. Body-worn/Hotspot/Near Body (DSI=0, 3, 4) exposure Analysis

Condition#1 (Sum of SAR)

AG0's worst configuration

Antenna Group		AG0	AG0	AG0
Antenna		Main.1	Main.2	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	
Body-worn & Hotspot & Near Body	Rear	1.081	1.087	1.087
	Front	0.591	0.458	0.591
	Top	0.000	0.000	0.000
	Left	0.000	0.491	0.491
	Bottom	0.839	0.675	0.839
	Right	0.453	0.000	0.453

AG1's worst configuration

Antenna Group		AG1	AG1	AG1	AG1	AG1	AG1	AG1
Antenna		Sub. 1	Sub. 2	Sub. 3	Sub. 4	Sub. 7	Sub. 8	Highest Adjusted SAR
RF exposure	Test position	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	Adjusted SAR	
Body-worn & Hotspot & Near Body	Rear	0.365	0.905	0.299	0.498	0.746	0.330	0.905
	Front	0.157	0.459	0.182	0.312	0.087	0.042	0.459
	Top	0.433	1.036	0.299	0.276	0.205	0.177	1.036
	Left	0.000	0.162	0.632	0.605	0.000	0.000	0.632
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right	0.043	0.000	0.000	0.000	0.072	0.000	0.043

ER's worst configuration

RF exposure	Test positions	ER's standalone SAR (W/kg)							ER's normal mode simultaneous SAR (W/kg)			
		BT Ant.1	BT Ant.2	2.4GHz Ant.1	2.4GHz Ant.2	2.4GHz MIMO	5GHz MIMO	NFC	2.4GHz Ant.2+ BT Ant.1+NFC	5GHz MIMO + BT Ant.1+NFC	5GHz MIMO + BT Ant.2+NFC	Worst case Combination
		Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)	
Body-worn & Hotspot & Near Body	Rear	0.183	0.051	0.397	0.216	0.397	0.414	0.032	0.431	0.629	0.497	0.629
	Front	0.056	0.036	0.358	0.243	0.250	0.337	0.000	0.299	0.393	0.373	0.393
	Top	0.035	0.000	0.525	0.000	0.065	0.172	0.000	0.035	0.207	0.172	0.525
	Left	0.201		0.525			0.692	0.000	0.201	0.893	0.692	0.893
	Bottom								0.000	0.000	0.000	0.000
	Right		0.051		0.359	0.587	0.000		0.359	0.000	0.051	0.587

Summation of each antennas of AG0, each antennas of AG1 and ER in Condition#1

Antenna Group		AG0	AG1	AG1	AG0 + AG1 + ER	FCC SAR Limit
Antenna		All	All	All		
RF exposure	Test position	AG0	AG1	ER		
Body-worn & Hotspot & Near Body Reported	Rear	1.087	0.905	0.629	2.621	1.600
	Front	0.591	0.459	0.393	1.443	
	Top	0.000	1.036	0.525	1.561	
	Left	0.491	0.632	0.893	2.016	
	Bottom	0.839	0.000	0.000	0.839	
	Right	0.453	0.043	0.587	1.083	

Note(s):

For Rear/Left positions, additional Sum SAR is required for each Bands/antennas.

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

Condition#2 (Sum-SPLSR)**AG0(Sub6) & AG1(Sub6)+ER : Sum-SPLSR combinations****Rear Position**

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 -5mm	AG0	Main.1	GSM 850	0.677	83.8	Y	AG1	Sub.1	NR Bn41 (SRS4)	0.365	-80.2	Y	
			WCDMA B5	1.031	83.6	Y			Worst configuration	0.365	-80.2		
			LTE B5	1.081	83.9	Y		Sub.2	LTE B25	0.895	-75.2	Y	
			LTE B12	0.496		N			LTE B41	0.162	-80.0	Y	
			LTE B13	0.260		N			LTE B66	0.780	-80.4	Y	
			LTE B26	0.830	86.7	Y			NR Bn66	0.905	-81.4	Y	
			NR Bn5	0.979	86.9	Y			NR Bn41 (SRS2)	0.457	-76.6	Y	
			NR Bn26	1.015	81.9	Y			Worst configuration	0.905	-75.2		
			Worst configuration	1.081	81.9				Sub.3	NR Bn77 (Main)	0.299	-73.5	Y
		Main.2	GSM 1900	0.727	80.5	Y		Worst configuration		0.299	-73.5		
			WCDMA B2	1.087	83.7	Y		Sub.4	NR Bn41 (SRS3)	0.498	-57.2	Y	
				WCDMA B4	1.085	83.0			Y	Worst configuration	0.498	-57.2	
			LTE B25	0.787	79.9	Y		Sub.7	NR Bn77 (SRS3)	0.746	-74	Y	
			LTE B41	1.007	80.6	Y			Worst configuration	0.746	-74.0		
			LTE B66	0.785	80.5	Y		Sub.8	NR Bn77 (SRS4)	0.330	-73.5	Y	
			NR Bn66	0.777	82.0	Y			Worst configuration	0.330	-73.5		
			NR Bn41 (SRS1)	0.888	79.0	Y							
			NR Bn77(SRS2)	0.252		N							
		Worst configuration	1.087	79.0									

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.4	BT SISO	0.183	-60.4
Sub.6	BT SISO	0.051	-28.0
Worst configuration		0.183	-28.0

Antenna	Highest SAR (W/kg)	Y-axis(mm)
NFC	0.032	-42.4

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.4	WiFi 2GHz SISO	0.397	-62.0
Sub.6	WiFi 2GHz SISO	0.216	-30.2
Sub.4+6	WiFi 2GHz MIMO	0.397	-58.4
Worst configuration		0.397	-30.2

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
ER	DTS+NFC	0.429	-30.2
	DTS+BT+NFC	0.612	-28.0
	UNII+BT+NFC	0.629	-28.0
	Worst configuration	0.629	-28.0

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.3+5	WiFi 5.3GHz MIMO	0.340	-54.6
	WiFi 5.5GHz MIMO	0.414	-73.8
	WiFi 5.8GHz MIMO	0.378	-57.6
Worst configuration		0.414	-54.6

Note(s):

Closest Y-axis determined the closet distance from AG0's location in table.

Left Position

Positions	Antenna Group	Antenna	Bands	Reported 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)			
Left -5mm	AG0	Main.2	GSM 1900	0.312	73.5	Y	AG1	Sub.1	NR Bn41 (SRS4)	0.000		N			
			WCDMA B2	0.410	71.6	Y			Worst configuration	0.000					
			WCDMA B4	0.349	70.1	Y		Sub.2	LTE B25	0.162		N			
			LTE B25	0.491	72.0	Y			LTE B41	0.053		N			
			LTE B41	0.099	64.4	Y			LTE B66	0.123		N			
			LTE B66	0.258	72.0	Y			NR Bn66	0.131		N			
			NR Bn66	0.214	69.8	Y			NR Bn41 (SRS2)	0.084		N			
			NR Bn41 (SRS1)	0.078	59.0	Y			Worst configuration	0.162					
			NR Bn77(SRS2)	0.018		N		Sub.3	NR Bn77 (SRS1)	0.632	-63	Y			
			Worst configuration	0.491	59.0				Worst configuration	0.632	-63.0				
										Sub.4	NR Bn41 (SRS3)	0.605	-70.6	Y	
											Worst configuration	0.605	-70.6		
								Sub.7	NR Bn77 (SRS3)	0.000		N			
									Worst configuration	0.000					
								Sub.8	NR Bn77 (SRS4)	0.000		N			
									Worst configuration	0.000					

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.4	BT SISO	0.201	-58.8
Sub.6	BT SISO	0.000	N/A
Worst configuration		0.201	-58.8

Antenna	Highest SAR (W/kg)	Y-axis(mm)
NFC	0	N/A

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.4	WiFi 2GHz SISO	0.525	-55.9
Sub.6	WiFi 2GHz SISO	0.000	N/A
Sub.4+6	WiFi 2GHz MIMO	0.587	-59.3
Worst configuration		0.587	-55.9

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
ER	DTS+NFC	0.587	-55.9
	DTS+BT+NFC	0.788	-58.8
	UNII+BT+NFC	0.893	-57.1
Worst configuration		0.893	-55.9

Antenna	Band	Highest SAR (W/kg)	Y-axis(mm)
Sub.3+5	WiFi 5.3GHz MIMO	0.507	-60.0
	WiFi 5.5GHz MIMO	0.560	-58.6
	WiFi 5.8GHz MIMO	0.692	-57.1
Worst configuration		0.692	-57.1

Note(s):

Closet Y-axis determined the closet distance from AG0's location in table.

AG0(Sub6) & AG1(Sub6)+ER : Sum-SPLSR calculation results

Test Position	No.	Antenna pairs		AG0		AG1+ER		AG0+AG1+ER SUM SAR (W/kg)	SPLSR of AG0 & AG1 Results
		AG0	AG1+ER	SAR (W/kg)	Y-axis location (mm)	SAR (W/kg)	Y-axis location (mm)		
Rear -5mm	1	All	All	1.087	79.0	1.534	-28.0	2.621	0.04

Test Position	No.	Antenna pairs		AG0		AG1+ER		AG0+AG1+ER SUM SAR (W/kg)	SPLSR of AG0 & AG1 Results
		AG0	AG1+ER	SAR (W/kg)	Y-axis location (mm)	SAR (W/kg)	Y-axis location (mm)		
Left -5mm	1	All	All	0.491	59.0	1.525	-55.9	2.016	0.02

Note(s):

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

Conclusion:

Simultaneous Transmission SAR analysis results is satisfied the FCC Limit requirement according to follow procedures with "Sum of SAR" of "SPLSR(or Sum-SPLSR)".

Appendixes

Refer to separated files for the following appendixes.

S-4791547073-S1 FCC Report SAR_App A_Photos & Ant. Locations

S-4791547073-S1 FCC Report SAR_App B_Highest SAR Test Plots

S-4791547073-S1 FCC Report SAR_App C_System Check Plots

S-4791547073-S1 FCC Report SAR_App D_SAR Tissue Ingredients

S-4791547073-S1 FCC Report SAR_App E_Probe Cal. Certificates

S-4791547073-S1 FCC Report SAR_App F_Dipole Cal. Certificates

END OF REPORT