TEST REPORT

Report Number : 13573777-E8V2

Applicant	:	APPLE, INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	:	A2481
Brand	:	APPLE
FCC ID	:	BCG-E3994A
EUT Description	:	SMARTPHONE
Test Standard(s)	:	FCC CFR47 2, 22H, 24E, 27, 90S, 90R, AND 96

Date Of Issue:
AUGUST 05, 2021

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 319-4000
FAX: (510) 661-0888

Revision History

ACCREDITED
CERT #0751.05

Rev.	Issue Date	Revisions	Revised By
V1	7/30/2021	Initial Review	Mengistu Mekuria
V2	8/5/2021	Updated sections 6.1, 6.4, 8.3, and 8.12 according to TCB feedback. Updated 6.5 to clarify that conducted tests were selected based on worst case conducted power.	John Thompson

TABLE OF CONTENTS

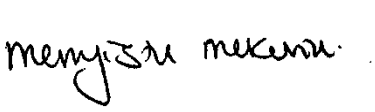
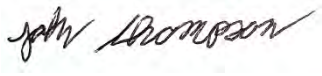
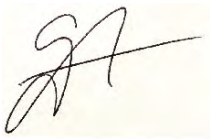
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A2481
Brand	APPLE
FCC ID	BCG-E3994A
EUT Description	SMARTPHONE
Serial Number	C7H1233003P0MMN5A (Conducted) AND N433JJJ3K0 (Radiated)
Sample Receipt Date	MAY 14, 2021
Date Tested	MAY 14, 2021 to JULY 24, 2021
Applicable Standards	FCC CFR47 2, 22H, 24E, 27, 90S, 90R, AND 96
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released By:	Reviewed By:	Prepared By:
		
Mengistu Mekuria Lead Test Engineer UL Verification Services Inc.	John Thompson Laboratory Engineer UL Verification Services Inc.	Sintia Andrean Laboratory Engineer UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

Requirement Description	Band	Requirement Clause Number	Result	Remarks
RF Conducted Output Power	26 (90S)	2.1046 , 90.635 (b)	Complies	
Effective Radiated Power	5, 26	22.913 (a)(5)	Complies	
	12	27.50 (c) (10)	Complies	
	13	27.50 (b) (10)	Complies	
	14	90.541 (d)	Complies	
	17	27.50 (c) (10)	Complies	
Equivalent Isotropic Radiated	2, 25	24.232 (c)	Complies	
	4, 66	27.50 (d) (4)	Complies	
	30	27.50 (a) (3)	Complies	
	7, 41, 38	27.50 (h) (2)	Complies	
	48	96.41 (b)	Complies	
	71	27.50 (c) (10)	Complies	
	77	96.41 (b), 27.50 (j) (3), (k) (3)	Complies	

Requirement Description	Requirement Clause Number (FCC)	Result	Remarks
Occupied Bandwidth	2.1049	Complies	
Band Edge and Emission Mask	2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	
Out of Band Emissions	2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	
Frequency Stability	2.1055, 22.355, 24.235, 27.54, 90.539, 90.213	Complies	
Peak-to-Average Ratio	22.913 (d), 24.232 (d), 27.50 (d) (5), 27.50 (j) (4), 96.41 (g)	Complies	
Field Strength of Spurious Radiation	2.1053, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90, and Part 96
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01. Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	208313
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	208313
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	208313

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Occupied Channel Bandwidth	±1.22 %
Temperature	±2.26%
Supply voltages	±0.57 %
Time	±3.39 %

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

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

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

ERP/EIRP = PMeas + GT − LC
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

5G NR n5

Part 22H (Ant 1)	
ERP Limit (W)	7.00
Antenna Gain (dBi)	-4.80

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	826.5	846.5	25.65	18.70	0.074	4489	4M49G7W
	QPSK			25.70	18.75	0.075	4482	4M48G7W
	16QAM			24.74	17.79	0.060	4486	4M49D7W
10.0	BPSK	829.0	844.0	25.70	18.75	0.075	8934	8M93G7W
	QPSK			25.64	18.69	0.074	8931	8M93G7W
	16QAM			25.14	18.19	0.066	8926	8M93D7W
15.0	BPSK	831.5	841.5	25.70	18.75	0.075	13363	13M4G7W
	QPSK			25.48	18.53	0.071	13469	13M5G7W
	16QAM			24.51	17.56	0.057	13469	13M5D7W
20.0	BPSK	834.0	839.0	25.70	18.75	0.075	17858	17M9G7W
	QPSK			25.69	18.74	0.075	17899	17M9G7W
	16QAM			24.62	17.67	0.058	17876	17M9D7W

LTE BAND 7

Part 27 (Ant 3)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	1.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2502.5	2567.5	25.20	26.70	0.468	4514	4M51G7W
	16QAM			24.69	26.19	0.416	4450	4M45D7W
10.0	QPSK	2505.0	2565.0	25.20	26.70	0.468	8968	8M97G7W
	16QAM			24.67	26.17	0.414	8954	8M95D7W
15.0	QPSK	2507.5	2562.5	25.20	26.70	0.468	13452	13M5G7W
	16QAM			24.80	26.30	0.427	13434	13M4D7W
20.0	QPSK	2510.0	2560.0	25.20	26.70	0.468	17888	17M9G7W
	16QAM			24.71	26.21	0.418	17899	17M9D7W

5G NR n7

Part 27 (Ant 3)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	1.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	2502.5	2567.5	25.09	26.59	0.456	4466	4M47G7W
	QPSK			25.20	26.70	0.468	4470	4M47G7W
	16QAM			24.48	25.98	0.396	4472	4M47D7W
10.0	BPSK	2505.0	2565.0	25.20	26.70	0.468	8907	8M91G7W
	QPSK			25.04	26.54	0.451	8935	8M94G7W
	16QAM			24.27	25.77	0.378	8928	8M93D7W
15.0	BPSK	2507.5	2562.5	25.15	26.65	0.462	13418	13M4G7W
	QPSK			25.20	26.70	0.468	13404	13M4G7W
	16QAM			24.18	25.68	0.370	13416	13M4D7W
20.0	BPSK	2510.0	2560.0	25.20	26.70	0.468	17838	17M8G7W
	QPSK			25.13	26.63	0.460	17903	17M9G7W
	16QAM			24.33	25.83	0.383	17847	17M8D7W
25.0	BPSK	2512.5	2557.5	23.20	24.70	0.295	22785	22M8G7W
	QPSK			23.18	24.68	0.294	22838	22M8G7W
	16QAM			22.31	23.81	0.240	22866	22M9D7W
30.0	BPSK	2515.0	2555.0	23.20	24.70	0.295	28520	28M5G7W
	QPSK			23.17	24.67	0.293	28515	28M5G7W
	16QAM			22.34	23.84	0.242	28477	28M5D7W
40.0	BPSK	2520.0	2550.0	23.20	24.70	0.295	38463	38M5G7W
	QPSK			23.18	24.68	0.294	38503	38M5G7W
	16QAM			22.22	23.72	0.236	38497	38M5D7W

LTE BAND 12

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-5.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	699.7	715.3	25.70	18.45	0.070	1082	1M08G7W
	16QAM			24.84	17.59	0.057	1085	1M09D7W
3.0	QPSK	700.5	714.5	25.70	18.45	0.070	2695	2M70G7W
	16QAM			24.77	17.52	0.056	2697	2M70D7W
5.0	QPSK	701.5	713.5	25.70	18.45	0.070	4489	4M49G7W
	16QAM			24.79	17.54	0.057	4485	4M49D7W
10.0	QPSK	704.0	711.0	25.70	18.45	0.070	8966	8M97G7W
	16QAM			24.80	17.55	0.057	8934	8M93D7W

5G NR n12

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-5.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	701.5	713.5	25.70	18.45	0.070	4458	4M46G7W
	QPSK			25.51	18.26	0.067	4466	4M47G7W
	16QAM			24.49	17.24	0.053	4475	4M48D7W
10.0	BPSK	704.0	711.0	25.70	18.45	0.070	8899	8M90G7W
	QPSK			25.66	18.41	0.069	8879	8M88G7W
	16QAM			24.92	17.67	0.058	8960	8M96D7W
15.0	BPSK	706.5	708.5	25.70	18.45	0.070	13402	13M4G7W
	QPSK			25.56	18.31	0.068	13416	13M4G7W
	16QAM			25.02	17.77	0.060	13410	13M4D7W

LTE BAND 13

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-5.80

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	779.5	784.5	25.70	17.75	0.060	4491	4M49G7W
	16QAM			25.08	17.13	0.052	4496	4M50D7W
10.0	QPSK	782.0	782.0	25.70	17.75	0.060	8945	8M95G7W
	16QAM			25.16	17.21	0.053	8935	8M94D7W

LTE BAND 14

Part 90R (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-5.80

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	790.5	795.5	25.70	17.75	0.060	4515	4M52G7W
	16QAM			24.89	16.94	0.049	4497	4M50D7W
10.0	QPSK	793.0	793.0	25.70	17.75	0.060	8960	8M96G7W
	16QAM			24.66	16.71	0.047	8934	8M93D7W

LTE BAND 17

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-5.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	706.5	713.5	25.70	18.45	0.070	4506	4M51G7W
	16QAM			24.60	17.35	0.054	4495	4M50D7W
10.0	QPSK	709.0	711.0	25.70	18.45	0.070	8942	8M94G7W
	16QAM			24.76	17.51	0.056	8946	8M95D7W

LTE BAND 25

Part 24 (Ant 3)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	0.20

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	25.20	25.40	0.347	1081	1M08G7W
	16QAM			24.83	25.03	0.318	1084	1M08D7W
3.0	QPSK	1851.5	1913.5	25.20	25.40	0.347	2698	2M70G7W
	16QAM			24.65	24.85	0.305	2695	2M70D7W
5.0	QPSK	1852.5	1912.5	25.20	25.40	0.347	4490	4M49G7W
	16QAM			24.62	24.82	0.303	4486	4M49D7W
10.0	QPSK	1855.0	1910.0	25.20	25.40	0.347	8953	8M95G7W
	16QAM			24.70	24.90	0.309	8946	8M95D7W
15.0	QPSK	1857.5	1907.5	25.20	25.40	0.347	13461	13M5G7W
	16QAM			24.58	24.78	0.301	13447	13M4D7W
20.0	QPSK	1860.0	1905.0	25.20	25.40	0.347	17920	17M9G7W
	16QAM			24.84	25.04	0.319	17904	17M9D7W

5G NR n25

Part 24 (Ant 3)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	0.20

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	1852.5	1912.5	25.16	25.36	0.344	4463	4M46G7W
	QPSK			25.20	25.40	0.347	4468	4M47G7W
	16QAM			24.20	24.40	0.275	4480	4M48D7W
10.0	BPSK	1855.0	1910.0	25.20	25.40	0.347	8902	8M90G7W
	QPSK			25.17	25.37	0.344	8891	8M89G7W
	16QAM			24.25	24.45	0.279	8654	8M65D7W
15.0	BPSK	1857.5	1907.5	25.20	25.40	0.347	13400	13M4G7W
	QPSK			25.14	25.34	0.342	13414	13M4G7W
	16QAM			24.42	24.62	0.290	13429	13M4D7W
20.0	BPSK	1860.0	1905.0	25.20	25.40	0.347	17905	17M9G7W
	QPSK			25.15	25.35	0.343	17887	17M9G7W
	16QAM			24.67	24.87	0.307	17768	17M8D7W
25.0	BPSK	1862.5	1902.5	23.12	23.32	0.215	22898	22M9G7W
	QPSK			23.20	23.40	0.219	22891	22M9G7W
	16QAM			22.25	22.45	0.176	22843	22M8D7W
30.0	BPSK	1865.0	1900.0	23.20	23.40	0.219	28481	28M5G7W
	QPSK			23.14	23.34	0.216	28541	28M5G7W
	16QAM			22.26	22.46	0.176	28527	28M5D7W
40.0	BPSK	1870.0	1895.0	23.20	23.40	0.219	38447	38M4G7W
	QPSK			23.18	23.38	0.218	38546	38M5G7W
	16QAM			22.35	22.55	0.180	38427	38M4D7W

LTE BAND 26 (Part 90S)

Part 90S	
Conducted Limit (W)	100.00

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.70	0.372	1083	1M08G7W
	16QAM			24.90	0.309	1083	1M08D7W
3.0	QPSK	815.5	822.5	25.70	0.372	2696	2M70G7W
	16QAM			24.80	0.302	2698	2M70D7W
5.0	QPSK	816.5	821.5	25.70	0.372	4485	4M49G7W
	16QAM			24.85	0.305	4490	4M49D7W
10.0	QPSK	819.0	819.0	25.70	0.372	8968	8M97G7W
	16QAM			24.69	0.294	8955	8M96D7W

LTE BAND 26 (Part 22)

Part 22 (Ant 1)	
ERP Limit (W)	7.00
Antenna Gain (dBi)	-4.80

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	824.7	848.3	25.70	18.75	0.075	1088	1M09G7W
	16QAM			24.79	17.84	0.061	1093	1M09D7W
3.0	QPSK	825.5	847.5	25.70	18.75	0.075	2696	2M70G7W
	16QAM			24.85	17.90	0.062	2699	2M70D7W
5.0	QPSK	826.5	846.5	25.70	18.75	0.075	4520	4M52G7W
	16QAM			24.81	17.86	0.061	4500	4M50D7W
10.0	QPSK	829.0	844.0	25.70	18.75	0.075	8959	8M96G7W
	16QAM			24.72	17.77	0.060	8975	8M98D7W

LTE BAND 30

Part 27 (Ant 3)	
EIRP Limit (W)	0.25
Antenna Gain (dBi)	1.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	22.30	23.40	0.219	4493	4M49G7W
	16QAM			22.28	23.38	0.218	4495	4M50D7W
10.0	QPSK	2310.0	2310.0	22.28	23.38	0.218	8926	8M93G7W
	16QAM			22.25	23.35	0.217	8943	8M94D7W

5G NR n30

Part 27 (Ant 3)	
EIRP Limit (W)	0.25
Antenna Gain (dBi)	1.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	2307.5	2312.5	22.30	23.40	0.219	4485	4M49G7W
	QPSK			22.29	23.39	0.218	4457	4M46G7W
	16QAM			22.28	23.38	0.218	4476	4M48G7W
10.0	BPSK	2310.0	2310.0	22.30	23.40	0.219	8905	8M91G7W
	QPSK			22.27	23.37	0.217	8888	8M89G7W
	16QAM			22.26	23.36	0.217	8924	8M92D7W

LTE BAND 41

Part 27 (Ant 3)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	1.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2498.5	2687.5	27.00	28.50	0.708	4514	4M51G7W
	16QAM			26.29	27.79	0.601	4508	4M51D7W
10.0	QPSK	2501.0	2685.0	27.00	28.50	0.708	8935	8M94G7W
	16QAM			26.45	27.95	0.624	8967	8M97D7W
15.0	QPSK	2503.5	2682.5	27.00	28.50	0.708	13408	13M4G7W
	16QAM			26.42	27.92	0.619	13447	13M4D7W
20.0	QPSK	2506.0	2680.0	27.00	28.50	0.708	17741	17M7G7W
	16QAM			26.21	27.71	0.590	17859	17M9D7W

5G NR n41

Part 27 (Ant 2)	
EIRP Limit (W)	2.00
Antenna Gain (dBi)	0.10

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	2506.0	2680.0	27.70	27.80	0.603	17900	17M9G7W
	QPSK			27.70	27.80	0.603	17871	17M9G7W
	16QAM			26.51	26.61	0.458	17875	17M9D7W
30.0	BPSK	2511.0	2675.0	27.70	27.80	0.603	26775	26M8G7W
	QPSK			27.66	27.76	0.597	26747	26M7G7W
	16QAM			26.46	26.56	0.453	26812	26M8D7W
40.0	BPSK	2516.0	2670.0	27.65	27.75	0.596	35738	35M7G7W
	QPSK			27.70	27.80	0.603	35696	35M7G7W
	16QAM			26.33	26.43	0.440	35640	35M6D7W
50.0	BPSK	2521.0	2665.0	27.56	27.66	0.583	45565	45M6G7W
	QPSK			27.70	27.80	0.603	45650	45M7G7W
	16QAM			26.35	26.45	0.442	45609	45M6D7W
60.0	BPSK	2526.0	2660.0	27.62	27.72	0.592	57728	57M7G7W
	QPSK			27.70	27.80	0.603	57808	57M8G7W
	16QAM			26.36	26.46	0.443	57807	57M8D7W
80.0	BPSK	2536.0	2650.0	27.70	27.80	0.603	76787	76M8G7W
	QPSK			27.68	27.78	0.600	76903	76M9G7W
	16QAM			26.62	26.72	0.470	76850	76M9D7W
90.0	BPSK	2541.0	2645.0	27.59	27.69	0.587	86391	86M4G7W
	QPSK			27.70	27.80	0.603	86641	86M6G7W
	16QAM			26.48	26.58	0.455	86571	86M6D7W
100.0	BPSK	2546.0	2640.0	27.70	27.80	0.603	95896	95M9G7W
	QPSK			27.67	27.77	0.598	96061	96M1G7W
	16QAM			26.69	26.79	0.478	95930	95M9D7W

LTE BAND 48

Part 96 (Ant 7)	
EIRP Limit (W)/ 10MHz	0.20
Antenna Gain (dBi)	-3.50

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	25.70	22.20	0.166	4467	4M47G7W
	16QAM			25.10	21.60	0.145	4477	4M48D7W
10.0	QPSK	3555.0	3695.0	25.70	22.20	0.166	8960	8M96G7W
	16QAM			25.27	21.77	0.150	8940	8M94D7W
15.0	QPSK	3557.5	3692.5	25.70	22.20	0.166	13357	13M4G7W
	16QAM			25.03	21.53	0.142	13402	13M4D7W
20.0	QPSK	3560.0	3690.0	25.70	22.20	0.166	17837	17M8G7W
	16QAM			25.05	21.55	0.143	17807	17M8D7W

LTE BAND 66

Part 27 (Ant 3)	
EIRP Limit (W)	1.00
Antenna Gain (dBi)	0.40

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.20	25.60	0.363	1084	1M08G7W
	16QAM			24.68	25.08	0.322	1092	1M09D7W
3.0	QPSK	1711.5	1778.5	25.20	25.60	0.363	2685	2M69G7W
	16QAM			24.64	25.04	0.319	2686	2M69D7W
5.0	QPSK	1712.5	1777.5	25.20	25.60	0.363	4486	4M49G7W
	16QAM			24.57	24.97	0.314	4479	4M48D7W
10.0	QPSK	1715.0	1775.0	25.20	25.60	0.363	8956	8M96G7W
	16QAM			24.66	25.06	0.321	8956	8M96D7W
15.0	QPSK	1717.5	1772.5	25.20	25.60	0.363	13477	13M5G7W
	16QAM			24.66	25.06	0.321	13467	13M5D7W
20.0	QPSK	1720.0	1770.0	25.20	25.60	0.363	17924	17M9G7W
	16QAM			24.74	25.14	0.327	17928	17M9D7W

5G NR n66

Part 27 (Ant 3)	
EIRP Limit (W)	1.00
Antenna Gain (dBi)	0.40

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	1712.5	1777.5	25.20	25.60	0.363	4466	4M47G7W
	QPSK			25.16	25.56	0.360	4469	4M47G7W
	16QAM			24.08	24.48	0.281	4481	4M48D7W
10.0	BPSK	1715.0	1775.0	25.12	25.52	0.356	8915	8M92G7W
	QPSK			25.20	25.60	0.363	8893	8M89G7W
	16QAM			24.50	24.90	0.309	8955	8M96D7W
15.0	BPSK	1717.5	1772.5	24.97	25.37	0.344	13411	13M4G7W
	QPSK			25.20	25.60	0.363	13426	13M4G7W
	16QAM			24.13	24.53	0.284	13466	13M5D7W
20.0	BPSK	1720.0	1770.0	25.15	25.55	0.359	17901	17M9G7W
	QPSK			25.20	25.60	0.363	17858	17M9G7W
	16QAM			24.19	24.59	0.288	17814	17M8D7W
30.0	BPSK	1725.0	1765.0	23.18	23.58	0.228	28563	28M6G7W
	QPSK			23.20	23.60	0.229	28549	28M5G7W
	16QAM			22.08	22.48	0.177	28478	28M5D7W
40.0	BPSK	1730.0	1760.0	23.20	23.60	0.229	38481	38M5G7W
	QPSK			23.15	23.55	0.226	38492	38M5G7W
	16QAM			22.30	22.70	0.186	38405	38M4D7W

LTE BAND 71

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-6.40

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	665.5	695.5	25.70	17.15	0.052	4491	4M49G7W
	16QAM			24.75	16.20	0.042	4478	4M48D7W
10.0	QPSK	668.0	693.0	25.70	17.15	0.052	8974	8M97G7W
	16QAM			24.72	16.17	0.041	8977	8M98D7W
15.0	QPSK	670.5	690.5	25.70	17.15	0.052	13409	13M4G7W
	16QAM			25.04	16.49	0.045	13412	13M4D7W
20.0	QPSK	673.0	688.0	25.70	17.15	0.052	17852	17M9G7W
	16QAM			24.98	16.43	0.044	17870	17M9D7W

5G NR n71

Part 27 (Ant 1)	
ERP Limit (W)	3.00
Antenna Gain (dBi)	-6.40

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	665.5	695.5	25.70	17.15	0.052	4456	4M46G7W
	QPSK			25.59	17.04	0.051	4463	4M46G7W
	16QAM			24.80	16.25	0.042	4459	4M46D7W
10.0	BPSK	668.0	693.0	25.70	17.15	0.052	8910	8M91G7W
	QPSK			25.62	17.07	0.051	8893	8M89G7W
	16QAM			24.73	16.18	0.041	8911	8M91D7W
15.0	BPSK	670.5	690.5	25.49	16.94	0.049	13352	13M4G7W
	QPSK			25.70	17.15	0.052	13357	13M4G7W
	16QAM			24.77	16.22	0.042	13375	13M4D7W
20.0	BPSK	673.0	688.0	25.33	16.78	0.048	17822	17M8G7W
	QPSK			25.70	17.15	0.052	17816	17M8G7W
	16QAM			24.56	16.01	0.040	17811	17M8D7W

5G NR n77 (Part 27 3450-3550MHz)

Part 27 (Ant 7)	
EIRP Limit (W)	1.00
Antenna Gain (dBi)	-3.00

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	3460.0	3540.0	27.67	24.67	0.293	17863	17M9G7W
	QPSK			27.70	24.70	0.295	17885	17M9G7W
	16QAM			26.69	23.69	0.234	17935	17M9D7W
30.0	BPSK	3465.0	3535.0	27.69	24.69	0.294	26777	26M8G7W
	QPSK			27.70	24.70	0.295	26794	26M8G7W
	16QAM			27.12	24.12	0.258	26822	26M8D7W
40.0	BPSK	3470.0	3530.0	27.70	24.70	0.295	35682	35M7G7W
	QPSK			27.44	24.44	0.278	35683	35M7G7W
	16QAM			26.52	23.52	0.225	35735	35M7D7W
50.0	BPSK	3475.0	3525.0	27.70	24.70	0.295	45803	45M8G7W
	QPSK			27.62	24.62	0.290	45726	45M7G7W
	16QAM			26.64	23.64	0.231	45717	45M7D7W
60.0	BPSK	3480.0	3520.0	27.70	24.70	0.295	57868	57M9G7W
	QPSK			27.61	24.61	0.289	57829	57M8G7W
	16QAM			26.93	23.93	0.247	57863	57M9D7W
70.0	BPSK	3485.0	3515.0	27.70	24.70	0.295	64442	64M4G7W
	QPSK			27.27	24.27	0.267	64187	64M2G7W
	16QAM			26.35	23.35	0.216	64228	64M2D7W
80.0	BPSK	3490.0	3510.0	27.70	24.70	0.295	76894	76M9G7W
	QPSK			27.59	24.59	0.288	77009	77M0G7W
	16QAM			26.59	23.59	0.229	77169	77M2D7W
90.0	BPSK	3495.0	3505.0	27.70	24.70	0.295	86883	86M9G7W
	QPSK			27.45	24.45	0.279	86760	86M8G7W
	16QAM			26.54	23.54	0.226	86605	86M6D7W
100.0	BPSK	3500.0	3500.0	27.68	24.68	0.294	96338	96M3G7W
	QPSK			27.70	24.70	0.295	96307	96M3G7W
	16QAM			26.73	23.73	0.236	96384	96M4D7W

5G NR n77 (Part 27 3700-3980MHz)

Part 27 (Ant 7)	
EIRP Limit (W)	1.00
Antenna Gain (dBi)	-2.60

Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	3702.5	3977.5	27.65	25.05	0.320	17884	17M9G7W
	QPSK			27.70	25.10	0.324	17827	17M8G7W
	16QAM			26.72	24.12	0.258	17885	17M9D7W
30.0	BPSK	3705.0	3975.0	27.56	24.96	0.313	26714	26M7G7W
	QPSK			27.70	25.10	0.324	26738	26M7G7W
	16QAM			26.83	24.23	0.265	26801	26M8D7W
40.0	BPSK	3710.0	3970.0	27.70	25.10	0.324	35765	35M8G7W
	QPSK			27.68	25.08	0.322	35684	35M7G7W
	16QAM			26.89	24.29	0.269	35681	35M7D7W
50.0	BPSK	3720.0	3960.0	27.69	25.09	0.323	45727	45M7G7W
	QPSK			27.70	25.10	0.324	45744	45M7G7W
	16QAM			27.32	24.72	0.296	45712	45M7D7W
60.0	BPSK	3725.0	3955.0	27.70	25.10	0.324	57695	57M7G7W
	QPSK			27.70	25.10	0.324	57840	57M8G7W
	16QAM			27.16	24.56	0.286	57894	57M9D7W
70.0	BPSK	3730.0	3950.0	27.70	25.10	0.324	64408	64M4G7W
	QPSK			27.68	25.08	0.322	64117	64M1G7W
	16QAM			26.78	24.18	0.262	64322	64M3D7W
80.0	BPSK	3740.0	3940.0	27.50	24.90	0.309	76906	76M9G7W
	QPSK			27.70	25.10	0.324	76919	76M9G7W
	16QAM			26.96	24.36	0.273	77223	77M2D7W
90.0	BPSK	3745.0	3935.0	27.67	25.07	0.321	86784	86M8G7W
	QPSK			27.70	25.10	0.324	86643	86M6G7W
	16QAM			26.91	24.31	0.270	86515	86M5D7W
100.0	BPSK	3750.0	3930.0	27.67	25.07	0.321	96271	96M3G7W
	QPSK			27.70	25.10	0.324	96412	96M4G7W
	16QAM			27.17	24.57	0.286	96353	96M4D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version: 0.21.02-1.

6.4. MAXIMUM ANTENNA GAIN

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

LTE Bands	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	ANT 3 Antenna Gain (dBi)	ANT 4 Antenna Gain (dBi)	ANT 7 Antenna Gain (dBi)	ANT 8 Antenna Gain (dBi)	ANT 9 Antenna Gain (dBi)
LTE Band 5, n5, 824 – 849 MHz	-4.8	-5.9					
LTE Band 7, n7, 2500 – 2570 MHz	-1.9	0.1	1.5	-2.1			
LTE Band 12, n12, 699 – 716 MHz	-5.1	-7.7					
LTE Band 13, 777 – 787 MHz	-5.8	-5.8					
LTE Band 14, 788 – 798 MHz	-5.8	-5.8					
LTE Band 17, 704 – 716 MHz	-5.1	-7.7					
LTE Band 25, n25, 1850 – 1915 MHz	-0.9	-2.8	0.2	-0.9			
LTE Band 26, 814 – 849 MHz	-4.8	-5.9					
LTE Band 30, n30, 2305 – 2315 MHz	-2.7	-0.4	1.1	-0.9			
LTE Band 41, n41, 2496 – 2690 MHz	-1.9	0.1	1.5	-2.1			
LTE Band 48, 3550 – 3700 MHz				-3.2	-3.5	-2.6	-4.8
LTE Band 66, n66, 1710 – 1780 MHz	-2.1	-2.3	0.4	-0.6			
LTE Band 71, 663 – 698 MHz	-6.4	-7.8					
5G NR n77 3450 – 3550 MHz				-3.8	-3.0	-1.9	-4.8
5G NR n77 3700 – 3980 MHz				-3.8	-2.6	-4.9	-4.8

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE and 5G NRs:
Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 41, Band 48, Band 66, Band 71, 5G NR n2, 5G NR n5, 5G NR n12, 5G NR n25, 5G NR n41, 5G NR n66, 5G NR n71, and 5G NR n77.

LTE Band 2 and 5G NR n2 (1850-1910MHz) are covered by LTE Band 25 and 5G NR n25 respectively. Because they are the subset of LTE band 25 and 5G NR n25 with the same output power and supported bandwidths.

LTE Band 4 (1710-1755MHz, 5/10/15/20MHz bandwidth) is covered by LTE Band 66 because it is a subset of LTE band 66 and they have same output power.

FCC rule Part 22.905 of LTE Band 5 (824-849MHz) is covered by LTE Band 26 of same rule since they have the same output power and supported bandwidths.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE bands and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on sections 8 and 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst case antenna port because it has the highest conducted power. The worst case antenna port is shown in the table below.

LTE and 5G NR Bands	Worst case Antenna Port For Conducted Power
LTE BAND 26 and 5G NR n5	Ant 1
LTE BAND 7 and 5G NR n7	
LTE BAND 12	
LTE BAND 13	
LTE BAND 14	
LTE Band 17	
LTE BAND 25 and 5G NR n25	
LTE BAND 30 and 5G NR n30	
LTE BAND 41	
LTE BAND 66 and 5G NR n66	
LTE BAND 71 and 5G NR n71	
5G NR n41	Ant 2
5G NR n77	Ant 7
LTE BAND 48	Ant 9

The EUT was investigated in three orthogonal orientations X/Y/Z on all ANT 1, ANT2, ANT3, ANT4, ANT7, ANT8 and ANT 9 antennas to determine the worst case orientation. The following table exabit the worst case orientation for different frequency bands. The full tests of the EUT have made upon the orientations that shown in the table below.

Frequency Bands	ANT1	ANT2	ANT3	ANT4	ANT7	ANT8	ANT9
663 – 849 MHz	X	Y	N/A	N/A	N/A	N/A	N/A
1710 – 1915 MHz	X	X	X	X	N/A	N/A	N/A
2300 – 2700 MHz	Z	Y	Y	X	N/A	N/A	N/A
3300 – 3980 MHz	N/A	N/A	N/A	X	X	X	Y

Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GH WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

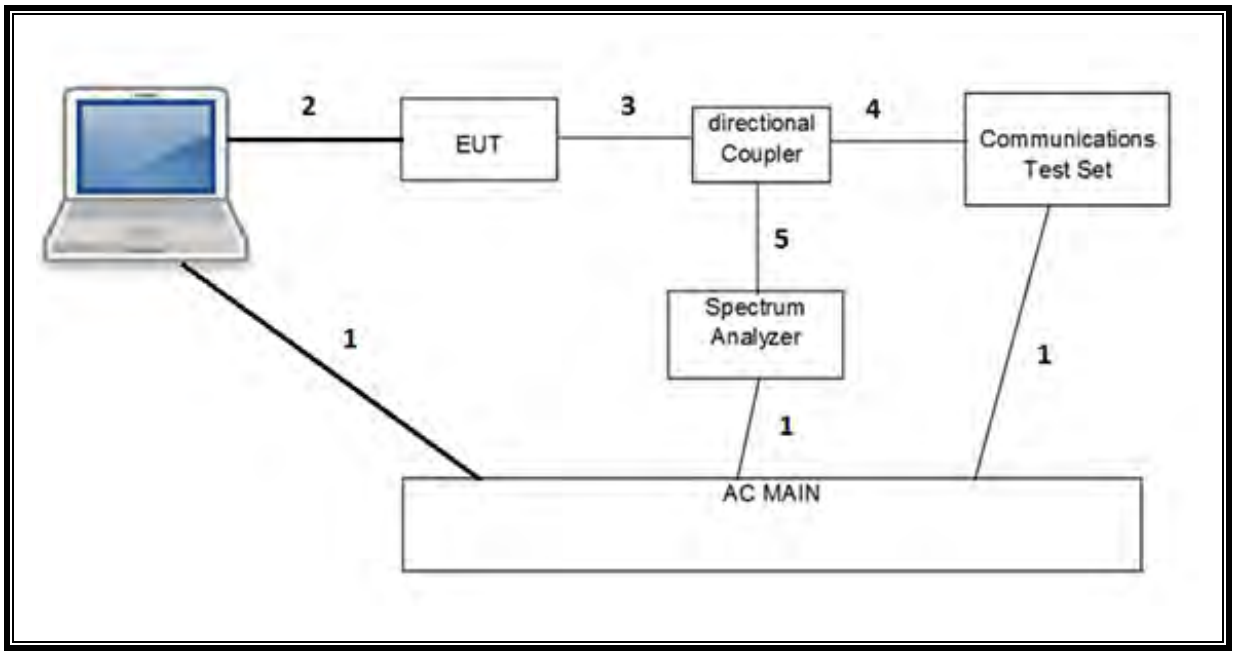
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/ DoC**
Laptop	Apple	MacBook Pro	C02VD7SAH22	BCGA1708
AC/DC adapter	Apple	A1718	C4H714302LCGN8RA5	--

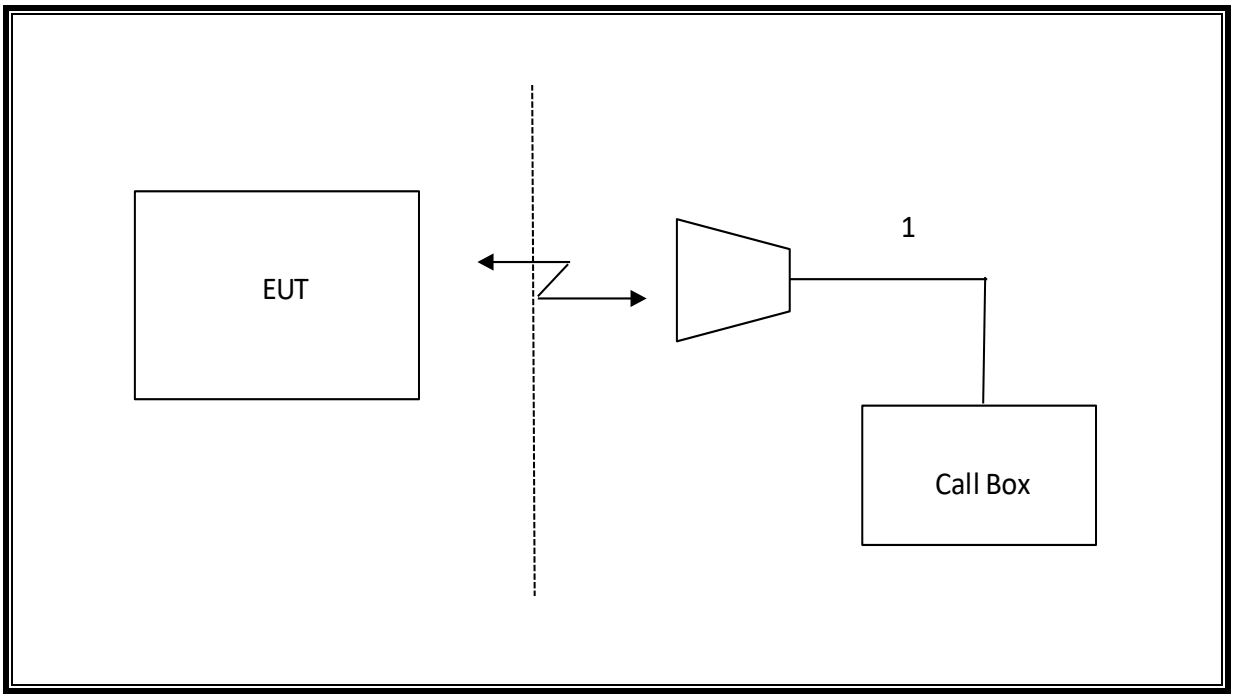
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	AC	3	US 115V	Un-shielded	2.0	N/A
2	USB	1	DC	Un-shielded	1.0	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A
5	RF In/Out	1	Barrel	N/A	N/A	N/A

I/O CABLES (RF RADIATED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	RF In/Out	1	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset**	**Cal Due**
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T345	05/26/2022
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T136	07/07/2022
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T900	02/24/2022
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-42	T1165	06/12/2022
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	T907	07/22/2022
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T285	07/22/2021
Spectrum Analyzer, PSA, 3Hz to 44GHz	Keysight	N9030A	T123	01/19/2022
Spectrum Analyzer, PSA, 3Hz to 44GHz	Keysight	N9030A	T908	01/28/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T200	01/19/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T905	01/21/2022
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	T340	01/28/2022
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	T199	01/20/2022
Spectrum Analyzer, PXA 3Hz to 50GHz	Keysight	N9030B	207995	05/27/2022
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight	N9030A	T342	01/25/2022
Spectrum Analyzer, PSA 3Hz to 44GHz	Keysight	E4446A	T123	01/22/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	AE0038201512	connection purpose only
Directional Coupler	KRYTAR	152610	T1161	09/16/2021
Directional Coupler	KRYTAR	152610	T1536	09/16/2021
Directional Coupler	KRYTAR	152610	T1537	09/16/2021
Power Meter, P-series single channel	Keysight	N1912A	T1245	01/21/2022
Power Meter, P-series single channel	Keysight	N1912A	T1269	01/25/2022
Power Meter, P-series single channel	Keysight	N1912A	T1272	01/21/2022
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	T1224	01/28/2022
Filter, HPF 3.0GHz	Micro-Tronics	HPM17543	T487	04/27/2022
*Filter, HPF 1.2GHz	Micro-Tronics	WHKX1.2/15G-6ST	T1737	6/23/2021
Filter, BRF 1850 – 1910 MHz	Micro-Tronics	BRM50714-02	T1796	06/10/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T1210	01/22/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T1526	02/26/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T260	02/20/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T958	02/22/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T964	02/17/2022
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	T979	02/22/2022
5G NR Communication Test Set, Call Box	Keysight	UXM	207269	04/07/2022
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T754	06/21/2021
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T1154	06/21/2021
Amplifier, 26.5GHz to 40GHz	Miteq	NSP 4000 SP2	T88	04/22/2022
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Keysight	8449B	T404	04/19/2022
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826/B	T447	04/22/2022
Antenna, Horn 26.5GHz to 40GHz	ARA	MWH-2640	T1864	04/19/2022
Spectrum Analyzer	Keysight	8564E	T106	01/27/2022
Antenna, Active Loop 9KHz to 30MHz	EMCO	6502	T1616	12/02/2021
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	Ver 3.4, June 08, 2021	

Power Measurement Software	UL	UL RF	Ver 3.1.4, May 20, 2021
Radiated test software	UL	UL RF	Ver 9.5, July 07, 2020

NOTES:

1. * Testing is completed before equipment expiration date.

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted average power is obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS136.101 specification.

UE Power Class: 3 (23 +/- 2dBm). Band 41 UE Power Class: 2 (26 +/-2 dBm).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 TS136.101.

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

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

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

The allowed MPR for SRS, PUCCH formats 0, 1, 3 and 4, and PRACH shall be as specified for QPSK modulated DFTs-OFDM of equivalent RB allocation. The allowed MPR for PUCCH format 2 shall be as specified for QPSK modulated CP-OFDM of equivalent RB allocation.

Table 6.2.2.3-1: Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
		≤ 0.5[2]		0[2]
	Pi/2 BPSK w Pi/2 BPSK DMRS	≤ 0.5[2]		0[2]
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	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 *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* 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 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* 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.

Table 6.2.2.3-2: Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS136.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36, 66, 70	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2, 6.6.3.3.19	41	5, 10, 15, 20	Table 6.2.4-4, Table 6.2.4-4a	

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS 38.521-1 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
NS_03	6.5.2.3.3.3	n2, n25, n66, n70, n86			Clause 6.2.3.3.7
NS_03U	6.5.2.3.3.3, 6.5.2.4.2.3	n2, n25, n66, n86			Clause 6.2.3.3.7
NS_04	6.5.2.3.3.2, 6.5.3.3.3.1	n41	10, 15, 20, 40, 50, 60, 80, 90, 100		Clause 6.2.3.3.2

RESULTS

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

8.1. 5G NR n5

Test Engineer ID:	19171	Test Date:	4/15/2021

OUTPUT POWER FOR 5G NR n5 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				165300	167300	169300	165300	167300	169300
				826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz
5.0	BPSK	1	0	25.15	25.19	24.84	24.60	24.52	24.52
		1	1	**25.65**	25.58	25.13	**24.70**	24.53	24.40
		1	23	25.25	25.50	25.31	24.55	24.25	24.46
		1	24	24.92	25.01	24.54	24.39	24.37	24.27
		12	6	25.49	25.35	25.10	24.55	24.46	24.41
		25	0	24.72	24.66	24.56	24.50	24.42	24.29
	QPSK	1	0	24.69	24.47	24.50	24.12	24.12	24.10
		1	1	**25.70**	25.53	25.20	**24.66**	24.59	24.50
		1	23	25.44	25.35	25.26	24.54	24.40	24.43
		1	24	24.30	24.33	24.10	23.91	23.87	24.09
		12	6	25.37	25.34	25.40	24.56	24.40	24.33
		25	0	24.27	24.20	24.08	24.05	23.98	23.86
	16QAM	1	0	23.56	23.77	22.95	23.31	23.42	23.21
		1	1	24.41	**24.74**	24.11	24.38	**24.42**	24.12
		1	23	24.15	24.64	23.91	24.17	24.10	23.99
		1	24	23.37	23.74	22.96	23.10	23.13	22.91
		12	6	24.26	24.25	24.09	23.99	23.92	23.79
		25	0	23.25	23.18	23.02	23.01	23.00	22.90
	64QAM	1	0	**23.34**	22.98	22.79	22.63	22.58	22.32
		1	1	23.08	23.18	22.89	**22.64**	22.44	22.43
		1	23	22.98	23.02	22.64	22.42	22.30	22.25
		1	24	23.14	22.95	22.67	22.48	22.47	22.22
		12	6	22.71	22.73	22.50	22.53	22.43	22.32
		25	0	22.90	22.87	22.71	22.56	22.47	22.33
	256QAM	1	0	**21.26**	21.08	20.65	20.72	20.65	20.68
		1	1	21.21	21.16	20.69	**20.82**	20.72	20.45
		1	23	20.85	20.73	20.64	20.74	20.68	20.49
		1	24	20.73	20.96	20.73	20.80	20.72	20.46
		12	6	20.80	20.51	20.71	20.57	20.56	20.49
		25	0	20.81	20.67	20.69	20.53	20.46	20.41

OUTPUT POWER FOR 5G NR n5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				165800	167300	168800	165800	167300	168800
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz
10.0	BPSK	1	0	25.22	25.19	24.91	24.54	24.51	24.59
		1	1	**25.70**	25.58	25.64	**24.70**	24.67	24.60
		1	50	25.64	25.17	25.24	24.65	24.65	24.50
		1	51	25.02	24.86	25.02	24.60	24.56	24.44
		25	12	25.40	25.14	25.11	24.55	24.51	24.45
		50	0	24.81	24.70	24.72	24.55	24.55	24.47
	QPSK	1	0	24.61	24.41	24.36	24.11	24.15	24.10
		1	1	**25.64**	25.46	25.34	24.65	24.69	**24.70**
		1	50	25.58	25.28	25.29	24.64	24.66	24.52
		1	51	24.50	24.28	24.22	24.14	24.06	23.91
		25	12	25.32	25.27	25.24	24.57	24.52	24.44
		50	0	24.39	24.26	24.15	24.12	24.07	24.01
	16QAM	1	0	23.37	23.77	23.16	23.25	23.24	22.98
		1	1	24.54	**25.14**	24.17	**24.25**	24.20	24.06
		1	50	24.40	24.58	24.22	24.05	24.06	24.09
		1	51	23.53	23.51	23.30	23.20	23.20	22.83
		25	12	24.37	24.24	24.18	24.06	24.08	23.87
		50	0	23.34	23.26	23.14	23.13	23.08	22.97
	64QAM	1	0	**23.26**	23.01	22.85	22.49	22.52	22.40
		1	1	22.80	22.94	22.86	**22.59**	**22.59**	22.51
		1	50	23.11	23.03	22.59	22.45	22.49	22.30
		1	51	22.72	23.18	22.91	22.54	22.50	22.22
		25	12	23.01	22.85	22.79	22.52	22.56	22.33
		50	0	22.87	22.70	22.71	22.51	22.55	22.41
	256QAM	1	0	21.01	21.20	20.86	20.72	20.68	20.41
		1	1	**21.22**	20.78	21.08	20.78	20.68	20.50
		1	50	21.04	20.90	21.00	**20.83**	**20.83**	20.47
		1	51	21.00	21.00	20.93	20.66	20.68	20.38
		25	12	20.85	20.73	20.70	20.31	20.60	20.44
		50	0	20.77	20.72	20.60	20.52	20.53	20.47

OUTPUT POWER FOR 5G NR n5 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				166300	167300	168300	166300	167300	168300
				831.5 MHz	836.5 MHz	841.5 MHz	831.5 MHz	836.5 MHz	841.5 MHz
15.0	BPSK	1	0	24.83	25.03	24.69	24.56	24.48	24.44
		1	1	**25.70**	25.37	25.23	**24.57**	24.53	24.43
		1	77	25.40	25.16	25.00	24.51	24.55	24.33
		1	78	24.77	24.67	24.77	24.47	24.42	24.40
		36	18	25.01	24.83	24.86	24.42	24.35	24.34
		75	0	24.48	24.35	24.30	24.44	24.30	24.39
	QPSK	1	0	24.29	24.24	24.24	24.05	24.14	24.03
		1	1	**25.48**	25.14	25.23	24.69	24.66	24.52
		1	77	25.17	25.16	25.26	24.53	**24.70**	24.36
		1	78	24.07	24.14	24.07	24.10	24.05	24.02
		36	18	25.07	24.95	24.82	24.47	24.41	24.36
		75	0	24.03	23.87	23.81	24.03	23.87	23.92
	16QAM	1	0	23.02	23.57	22.98	23.16	23.16	22.96
		1	1	24.37	**24.51**	24.13	24.09	**24.10**	23.88
		1	77	24.15	24.29	23.81	23.89	24.07	**24.10**
		1	78	23.07	23.44	22.90	23.14	22.84	23.05
		36	18	24.13	23.87	23.85	23.99	23.94	23.82
		75	0	23.00	22.90	22.80	23.03	22.90	22.91
	64QAM	1	0	**23.08**	23.00	22.55	22.48	22.55	22.30
		1	1	22.81	23.02	22.70	22.43	**22.66**	22.28
		1	77	22.67	22.64	22.69	22.41	22.22	22.19
		1	78	22.72	22.62	22.60	22.18	22.44	22.38
		36	18	22.47	22.36	22.23	22.37	22.40	22.29
		75	0	22.51	22.43	22.34	22.38	22.48	22.33
	256QAM	1	0	20.96	20.75	20.52	20.41	20.64	20.61
		1	1	20.79	**21.04**	20.51	20.45	**20.67**	20.52
		1	77	20.65	20.58	20.23	20.66	20.58	20.46
		1	78	20.61	20.73	20.73	20.43	20.58	20.48
		36	18	20.57	20.58	20.38	20.18	20.35	20.35
		75	0	20.51	20.46	20.35	20.37	20.34	20.32

OUTPUT POWER FOR 5G NR n5 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				166800	167300	167800	166800	167300	167800
				834.0 MHz	836.5 MHz	839.0 MHz	834.0 MHz	836.5 MHz	839.0 MHz
20.0	BPSK	1	0	24.93	25.23	25.08	**24.69**	24.57	24.63
		1	1	**25.70**	25.53	25.22	24.65	24.61	24.66
		1	104	25.32	25.43	25.40	24.55	24.63	24.47
		1	105	24.77	24.96	24.84	24.64	24.43	24.55
		50	25	25.29	25.21	25.19	24.55	24.54	24.58
		100	0	24.71	24.74	24.60	24.50	24.51	24.50
	QPSK	1	0	24.35	24.93	24.64	24.20	24.27	24.11
		1	1	**25.69**	**25.69**	25.53	**24.70**	24.64	24.65
		1	104	25.46	25.25	25.06	24.53	24.61	24.38
		1	105	24.48	24.47	24.25	24.11	24.13	24.02
		50	25	25.30	25.28	25.17	24.54	24.53	24.57
		100	0	24.23	24.22	24.13	24.11	24.02	24.00
	16QAM	1	0	23.81	23.62	23.38	23.37	23.41	23.27
		1	1	24.46	**24.62**	24.20	**24.40**	24.24	24.12
		1	104	24.23	24.34	24.30	24.10	24.31	24.08
		1	105	23.11	23.17	22.85	23.18	23.41	23.12
		50	25	24.24	24.23	24.08	24.05	24.03	24.07
		100	0	23.32	23.25	23.07	23.01	23.06	23.03
	64QAM	1	0	23.04	22.76	**23.28**	22.48	22.51	22.54
		1	1	23.21	23.10	22.94	22.59	22.55	22.59
		1	104	22.94	22.48	22.87	22.36	22.36	**22.66**
		1	105	22.94	22.69	22.67	22.35	22.50	22.46
		50	25	22.84	22.83	22.65	22.52	22.50	22.45
		100	0	22.74	22.72	22.68	22.46	22.50	22.44
	256QAM	1	0	21.13	21.01	20.96	20.54	20.67	20.51
		1	1	21.27	**21.45**	21.20	20.57	**20.72**	20.62
		1	104	21.22	20.70	20.72	20.69	20.40	20.60
		1	105	20.76	21.04	20.84	20.59	20.70	20.65
		50	25	20.77	20.73	20.59	20.51	20.48	20.50
		100	0	20.77	20.67	20.65	20.45	20.49	20.51

8.2. LTE BAND 7 AND 5G NR n7

LTE BAND 7

Test Engineer ID:	10646	Test Date:	4/9/2021

OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
				2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5
5.0	QPSK	1	0	25.59	25.65	25.57	22.49	22.60	22.61	24.99	25.16	25.02	22.49	22.66	22.67
		1	12	25.59	25.60	25.59	22.55	22.57	22.58	25.03	25.12	25.07	22.55	22.67	22.64
		1	24	**25.70**	25.67	25.53	22.55	**22.70**	22.58	25.05	**25.20**	25.06	**22.70**	22.66	22.64
		12	0	24.60	24.70	24.62	21.58	21.62	21.71	24.11	24.17	24.10	21.56	21.77	21.68
		12	6	24.62	24.69	24.66	21.58	21.64	21.68	24.16	24.14	24.10	21.61	21.75	21.68
		12	11	24.62	24.67	24.63	21.61	21.62	21.69	24.14	24.11	24.19	21.66	21.78	21.71
		25	0	24.62	24.72	24.65	21.57	21.64	21.65	24.12	24.13	24.06	21.59	21.77	21.68
	16QAM	1	0	24.47	**24.88**	24.51	21.63	21.71	**22.17**	24.08	24.28	24.65	21.62	22.22	21.83
		1	12	24.55	24.87	24.51	21.68	21.70	22.15	24.34	24.21	24.68	21.79	22.20	21.98
		1	24	24.55	**24.88**	24.45	21.64	21.72	22.09	24.22	24.23	**24.69**	21.83	**22.23**	21.80
		12	0	23.74	23.85	23.71	20.72	20.71	20.85	23.20	23.22	23.28	20.68	20.95	20.79
		12	6	23.69	23.87	23.75	20.70	20.74	20.85	23.25	23.23	23.27	20.73	20.95	20.79
		12	11	23.67	23.80	23.77	20.65	20.72	20.83	23.22	23.24	23.33	20.76	20.93	20.75
		25	0	23.68	23.77	23.65	20.56	20.63	20.74	23.07	23.15	23.19	20.67	20.86	20.66
	64QAM	1	0	23.19	23.75	23.78	20.79	20.57	21.09	22.97	23.46	23.36	20.43	21.13	20.91
		1	12	23.20	**23.87**	23.81	20.96	20.60	**21.15**	23.02	23.49	**23.53**	20.58	21.15	21.09
		1	24	23.23	23.85	23.75	20.93	20.57	21.08	23.03	23.45	23.42	20.64	**21.16**	21.00
		12	0	22.66	22.68	22.67	19.71	19.63	19.63	22.05	22.09	22.17	19.61	19.73	19.78
		12	6	22.64	22.66	22.74	19.68	19.65	19.64	22.07	22.04	22.21	19.61	19.78	19.81
		12	11	22.66	22.67	22.71	19.70	19.64	19.62	22.11	22.03	22.14	19.65	19.76	19.71
		25	0	22.64	22.66	22.69	19.58	19.61	19.73	22.05	22.07	22.10	19.62	19.72	19.82
	256QAM	1	0	20.16	20.64	20.28	17.45	17.30	17.91	19.64	20.32	19.95	17.19	17.97	17.57
		1	12	20.12	20.63	20.31	17.50	17.25	**18.20**	19.73	**20.49**	20.07	17.30	17.93	17.67
		1	24	20.21	20.75	20.31	17.53	17.32	17.88	19.75	20.30	19.97	17.39	**17.98**	17.67
		12	0	20.63	20.72	20.73	17.70	17.59	17.76	20.01	20.15	20.16	17.56	17.82	17.77
		12	6	20.58	20.72	**20.81**	17.68	17.62	17.78	20.03	20.17	20.10	17.57	17.85	17.81
		12	11	20.57	20.73	20.76	17.71	17.60	17.76	20.04	20.13	20.23	17.62	17.83	17.81
		25	0	20.60	20.74	20.71	17.67	17.60	17.77	20.01	20.09	20.07	17.60	17.75	17.76

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
				2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0
10.0	QPSK	1	0	25.68	25.56	25.62	22.47	22.56	**22.70**	24.99	25.17	**25.20**	22.45	22.56	22.63
		1	24	25.65	25.60	25.57	22.52	22.56	22.68	25.06	25.10	25.15	22.58	22.60	22.64
		1	49	**25.70**	25.61	25.55	22.60	22.64	**22.70**	25.10	25.17	**25.20**	**22.70**	22.58	22.65
		25	0	24.78	24.74	24.75	21.71	21.72	21.74	24.19	24.26	24.21	21.63	21.79	21.73
		25	12	24.79	24.84	24.73	21.75	21.79	21.75	24.27	24.23	24.20	21.70	21.80	21.83
		25	24	24.77	24.83	24.77	21.74	21.76	21.80	24.25	24.21	24.26	21.70	21.77	21.78
		50	0	24.77	24.81	24.73	21.73	21.71	21.73	24.25	24.19	24.19	21.64	21.79	21.72
	16QAM	1	0	**24.78**	24.57	24.46	21.67	21.60	22.10	24.16	24.19	24.65	21.89	21.76	21.67
		1	24	24.72	24.55	24.32	21.69	21.58	22.13	24.19	24.09	**24.67**	22.05	21.72	21.66
		1	49	24.71	24.54	24.30	21.77	21.68	**22.16**	24.19	24.17	24.63	**22.24**	21.74	21.73
		25	0	23.84	23.82	23.80	20.83	20.75	20.74	23.30	23.25	23.25	20.73	20.89	20.72
		25	12	23.83	23.88	23.78	20.85	20.81	20.83	23.30	23.29	23.24	20.75	20.93	20.81
		25	24	23.82	23.89	23.80	20.83	20.78	20.91	23.32	23.26	23.29	20.77	20.87	20.80
		50	0	23.81	23.85	23.70	20.76	20.72	20.77	23.27	23.23	23.25	20.68	20.83	20.76
	64QAM	1	0	23.70	23.69	23.75	20.84	20.96	20.89	23.17	23.30	**23.38**	20.67	20.97	20.97
		1	24	23.62	**23.77**	23.70	20.87	20.94	20.93	23.22	23.25	23.37	20.82	20.94	20.99
		1	49	23.64	23.74	23.62	20.90	**21.02**	20.87	23.24	23.22	23.36	20.95	20.91	**21.00**
		25	0	22.84	22.85	22.80	19.85	19.78	19.77	22.20	22.23	22.20	19.75	19.89	19.77
		25	12	22.88	22.97	22.82	19.84	19.81	19.84	22.25	22.25	22.17	19.79	19.88	19.81
		25	24	22.87	22.91	22.84	19.84	19.80	19.89	22.25	22.17	22.20	19.81	19.87	19.78
		50	0	22.83	22.83	22.77	19.81	19.80	19.74	22.15	22.16	22.14	19.69	19.84	19.85
	256QAM	1	0	20.37	20.52	**21.13**	17.69	18.28	17.55	19.81	20.08	**20.72**	17.36	17.74	18.30
		1	24	20.28	20.46	21.09	17.53	18.21	17.48	19.84	19.92	20.67	17.41	17.60	**18.32**
		1	49	20.36	20.54	21.09	17.65	**18.29**	17.52	19.93	20.03	20.67	17.61	17.71	18.31
		25	0	20.78	20.83	20.74	17.78	17.72	17.71	20.09	20.22	20.12	17.69	17.86	17.70
		25	12	20.80	20.91	20.77	17.62	17.71	17.69	20.13	20.24	20.16	17.72	17.90	17.82
		25	24	20.75	20.88	20.79	17.77	17.77	17.78	20.10	20.17	20.18	17.75	17.90	17.76
		50	0	20.73	20.82	20.70	17.69	17.78	17.74	20.07	20.11	20.09	17.63	17.83	17.84

OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20825	21100	21375	20825	21100	21375	20825	21100	21375	20825	21100	21375
				2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5
15.0	QPSK	1	0	25.54	25.63	**25.70**	22.61	22.54	22.60	25.07	25.19	**25.20**	22.42	22.65	22.56
		1	37	25.61	25.65	25.40	22.67	22.54	22.67	25.08	25.14	25.18	22.57	22.64	22.60
		1	74	25.31	25.35	25.34	**22.70**	22.63	22.69	25.12	25.18	25.17	22.66	**22.70**	22.54
		36	0	24.37	24.40	24.43	21.67	21.64	21.65	24.26	24.22	24.20	21.62	21.71	21.63
		36	16	24.46	24.54	24.47	21.71	21.68	21.69	24.24	24.24	24.31	21.71	21.72	21.67
		36	35	24.42	24.47	24.47	21.70	21.69	21.79	24.21	24.19	24.26	21.67	21.69	21.69
		75	0	24.44	24.47	24.46	21.70	21.66	21.69	24.22	24.16	24.28	21.59	21.67	21.62
	16QAM	1	0	24.72	24.05	24.46	22.05	21.60	22.10	24.61	**24.80**	24.39	21.87	22.13	21.60
		1	37	**24.77**	24.13	24.45	22.20	21.65	22.18	24.69	24.74	24.40	22.08	**22.25**	21.66
		1	74	24.57	24.00	24.36	**22.27**	21.61	22.18	24.65	24.75	24.20	22.15	22.17	21.60
		36	0	23.35	23.37	23.35	20.69	20.69	20.70	23.30	23.25	23.23	20.65	20.69	20.68
		36	16	23.40	23.49	23.45	20.71	20.72	20.77	23.32	23.22	23.32	20.78	20.71	20.67
		36	35	23.39	23.44	23.48	20.75	20.74	20.86	23.29	23.20	23.28	20.71	20.71	20.68
		75	0	23.39	23.47	23.48	20.69	20.69	20.77	23.29	23.22	23.29	20.64	20.68	20.62
	64QAM	1	0	23.62	23.34	23.30	21.24	20.96	20.82	23.07	**23.61**	23.32	20.62	21.22	20.97
		1	37	**23.69**	23.43	23.34	21.29	20.94	20.96	23.14	23.55	23.34	20.80	21.31	20.99
		1	74	23.63	23.37	23.29	**21.35**	21.00	20.94	23.13	**23.61**	23.32	20.86	**21.37**	20.97
		36	0	22.41	22.40	22.45	19.73	19.73	19.72	22.12	22.09	22.11	19.72	19.75	19.71
		36	16	22.47	22.53	22.47	19.80	19.77	19.76	22.11	22.07	22.16	19.77	19.76	19.74
		36	35	22.42	22.50	22.52	19.76	19.76	19.85	22.13	22.04	22.11	19.76	19.78	19.77
		75	0	22.44	22.47	22.47	19.75	19.73	19.75	22.05	22.06	22.07	19.65	19.78	19.72
	256QAM	1	0	20.41	20.63	19.86	18.01	18.18	17.43	19.69	20.39	20.57	17.24	17.99	18.18
		1	37	20.55	**20.75**	20.04	18.02	18.22	17.51	19.80	20.32	**20.59**	17.48	18.01	**18.21**
		1	74	20.50	20.73	19.99	18.07	**18.26**	17.58	19.80	20.30	20.58	17.52	18.05	18.20
		36	0	20.32	20.37	20.31	17.70	17.68	17.65	20.01	20.04	20.07	17.64	17.70	17.65
		36	16	20.41	20.47	20.35	17.72	17.73	17.66	20.04	20.05	20.12	17.69	17.76	17.66
		36	35	20.38	20.45	20.40	17.73	17.73	17.74	20.02	20.01	20.09	17.66	17.73	17.71
		75	0	20.37	20.45	20.42	17.68	17.75	17.75	19.98	20.02	20.08	17.62	17.71	17.65

OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20850	21100	21350	20850	21100	21350	20850	21100	21350	20850	21100	21350
				2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0
20.0	QPSK	1	0	25.52	25.52	25.55	22.53	22.51	22.58	25.05	25.06	**25.20**	22.43	22.61	22.67
		1	49	25.55	25.65	**25.70**	22.55	22.50	22.60	24.98	25.00	25.16	22.61	22.58	22.64
		1	99	25.43	25.57	25.64	22.55	22.54	**22.70**	25.13	25.06	25.06	**22.70**	22.67	22.63
		50	0	24.63	24.66	24.59	21.65	21.63	21.56	24.19	24.20	24.22	21.66	21.70	21.62
		50	24	24.69	24.79	24.63	21.73	21.71	21.72	24.23	24.21	24.28	21.78	21.72	21.67
		50	49	24.59	24.73	24.72	21.68	21.67	21.71	24.21	24.17	24.20	21.69	21.70	21.71
		100	0	24.63	24.72	24.61	21.66	21.65	21.65	24.21	24.18	24.23	21.63	21.73	21.66
	16QAM	1	0	24.81	24.80	24.61	21.97	22.20	22.12	24.50	24.64	24.64	21.84	22.16	22.11
		1	49	24.83	**24.92**	24.69	22.03	22.13	22.00	24.36	24.57	24.54	22.07	22.15	22.02
		1	99	24.68	24.86	24.61	21.98	**22.25**	22.06	24.57	**24.71**	24.56	22.08	**22.22**	22.21
		50	0	23.63	23.65	23.53	20.63	20.68	20.59	23.16	23.17	23.17	20.61	20.89	20.67
		50	24	23.71	23.78	23.60	20.65	20.71	20.76	23.03	23.10	23.17	20.69	20.80	20.69
		50	49	23.62	23.73	23.66	20.67	20.73	20.75	23.03	23.05	23.05	20.68	20.74	20.75
		100	0	23.66	23.74	23.62	20.69	20.71	20.64	23.02	23.04	23.06	20.61	20.74	20.74
	64QAM	1	0	23.70	23.94	23.47	20.83	21.00	21.20	23.49	23.23	23.37	20.68	21.08	21.28
		1	49	23.76	**24.06**	23.59	20.95	21.00	21.28	23.54	23.17	23.34	20.97	21.03	**21.35**
		1	99	23.62	24.01	23.54	20.93	21.04	**21.30**	**23.59**	23.15	23.33	20.92	21.15	21.29
		50	0	22.68	22.67	22.60	19.69	19.70	19.62	21.97	22.01	22.04	19.68	19.78	19.65
		50	24	22.76	22.79	22.66	19.72	19.73	19.73	22.00	22.02	22.11	19.77	19.79	19.67
		50	49	22.68	22.74	22.72	19.74	19.76	19.75	21.97	21.98	22.08	19.71	19.81	19.74
		100	0	22.64	22.70	22.62	19.71	19.76	19.73	21.94	21.98	22.05	19.65	19.77	19.75
	256QAM	1	0	20.50	20.44	20.30	17.55	17.83	17.66	19.93	19.89	20.06	17.41	17.84	17.72
		1	49	20.63	20.64	20.46	17.60	17.84	17.75	19.98	19.83	**20.14**	17.58	17.84	17.79
		1	99	20.58	20.58	20.45	17.55	**17.86**	17.85	20.04	19.85	20.11	17.65	**17.94**	17.78
		50	0	20.57	20.57	20.53	17.67	17.66	17.59	19.92	20.00	19.96	17.62	17.69	17.64
		50	24	20.67	20.71	20.62	17.71	17.70	17.71	19.92	19.98	20.05	17.74	17.74	17.67
		50	49	20.58	20.71	20.71	17.73	17.69	17.71	19.95	19.96	19.99	17.67	17.73	17.70
		100	0	20.61	**20.72**	20.55	17.69	17.66	17.72	19.90	19.94	19.96	17.67	17.73	17.74

5G NR n7

Test Engineer ID:	19171	Test Date:	5/5/2021

OUTPUT POWER FOR 5G NR n7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				500500	507000	513500	500500	507000	513500	500500	507000	513500	500500	507000	513500
				2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5
5.0	BPSK	1	0	24.82	24.46	25.07	**22.60**	22.25	22.38	24.37	24.24	24.27	**22.66**	21.97	21.81
		1	1	**25.70**	25.32	25.60	22.55	22.42	22.36	25.00	24.99	24.72	22.08	22.28	22.58
		1	23	25.33	25.37	25.53	22.46	22.27	22.37	24.92	24.95	24.89	22.62	22.57	22.52
		1	24	25.02	25.13	25.16	22.39	22.34	22.19	24.09	24.37	24.45	21.65	21.90	21.81
		12	6	25.29	25.40	25.43	22.46	22.40	22.26	24.92	**25.09**	24.85	22.62	22.28	22.40
		25	0	24.69	24.76	24.84	22.48	22.39	22.22	23.90	24.39	24.42	21.10	21.87	21.88
	QPSK	1	0	24.22	24.48	24.36	22.46	22.30	22.43	23.90	23.89	24.22	20.44	21.28	21.59
		1	1	25.44	25.37	25.44	**22.52**	22.38	22.45	25.04	25.10	24.62	21.82	**22.70**	22.49
		1	23	25.35	25.47	**25.58**	22.50	22.33	22.51	23.75	**25.20**	24.90	22.32	22.05	22.49
		1	24	24.51	24.48	24.49	22.37	22.37	22.40	24.15	24.01	23.86	21.66	21.65	21.42
		12	6	25.31	25.27	25.44	22.44	22.38	22.20	25.05	24.94	24.90	21.68	22.29	22.36
		25	0	24.22	24.34	24.46	22.51	22.44	22.24	23.96	23.98	23.93	20.46	21.34	21.45
	16QAM	1	0	23.31	23.28	23.01	21.76	21.69	21.29	23.18	23.12	23.08	19.61	20.67	20.44
		1	1	23.99	24.35	24.08	22.64	22.63	22.31	24.07	24.22	**24.48**	21.20	**21.66**	21.65
		1	23	24.28	24.26	24.26	**22.70**	22.64	22.40	23.83	24.21	24.23	21.39	21.39	**21.66**
		1	24	23.16	23.24	23.10	21.73	21.66	21.38	23.43	23.26	22.90	20.30	21.00	20.29
		12	6	24.14	22.72	**24.37**	22.39	22.36	22.15	23.90	23.98	23.90	20.96	21.44	21.45
		25	0	23.14	23.30	23.36	21.38	21.38	21.27	22.95	22.90	22.95	20.08	20.35	20.49
	64QAM	1	0	22.69	22.65	22.60	21.13	21.08	20.70	22.36	22.80	22.69	19.38	19.97	20.35
		1	1	22.84	22.93	22.71	21.05	21.05	20.92	22.42	22.81	22.67	19.71	19.75	**20.50**
		1	23	22.82	22.85	22.97	**21.26**	21.07	20.66	22.62	22.56	**22.96**	20.28	20.04	20.01
		1	24	22.97	22.95	22.55	21.09	21.04	20.76	22.61	22.60	22.53	20.02	19.97	20.07
		12	6	22.67	20.77	22.86	20.82	20.81	20.62	22.52	22.57	22.52	19.74	20.12	20.08
		25	0	22.90	22.94	**23.02**	20.93	20.78	20.73	22.62	22.52	22.52	19.54	19.90	20.07
	256QAM	1	0	20.99	21.05	**21.26**	18.39	18.35	18.58	20.46	20.26	20.25	17.46	17.15	17.71
		1	1	20.92	21.07	21.06	18.40	18.40	18.34	20.18	20.20	20.08	17.65	17.64	17.47
		1	23	20.97	21.13	21.13	18.49	18.43	18.47	20.30	20.17	20.18	17.36	17.64	17.98
		1	24	20.98	21.09	20.99	18.41	18.39	18.56	20.11	**21.20**	20.21	17.55	17.08	17.54
		12	6	20.62	20.74	20.84	18.59	18.49	18.43	20.39	20.45	20.40	17.86	17.77	17.89
		25	0	20.72	20.84	20.83	**18.68**	18.65	18.49	20.47	20.46	20.52	17.90	**17.99**	17.96

OUTPUT POWER FOR 5G NR n7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				501000	507000	513000	501000	507000	513000	501000	507000	513000	501000	507000	513000
				2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0
10.0	BPSK	1	0	25.26	25.40	25.22	22.49	**22.70**	22.65	24.49	24.24	24.31	22.01	21.97	22.36
		1	1	**25.70**	25.43	25.64	**22.70**	22.47	22.33	24.87	24.87	25.11	22.51	**22.70**	22.34
		1	50	25.61	25.55	25.65	22.63	22.60	22.50	24.93	25.03	24.75	22.50	22.66	22.57
		1	51	25.32	25.24	25.22	22.63	22.58	22.45	24.34	**25.20**	24.10	22.07	22.08	21.77
		25	12	25.42	25.44	25.49	22.68	22.50	22.42	24.81	24.89	24.99	22.24	22.46	22.59
		50	0	24.83	24.88	24.89	22.57	22.52	22.35	24.38	24.48	24.47	22.00	22.10	21.83
	QPSK	1	0	24.55	24.65	24.94	22.53	22.68	22.56	23.83	24.46	23.81	20.14	21.63	21.60
		1	1	25.39	25.48	**25.70**	22.68	22.48	22.41	24.86	**25.04**	25.03	21.75	22.50	22.52
		1	50	25.60	25.20	25.51	22.67	22.60	22.51	24.70	24.90	24.57	22.29	22.44	22.15
		1	51	24.59	24.50	24.68	22.62	22.53	22.47	24.21	23.97	23.60	21.17	21.38	21.49
		25	12	25.55	25.38	25.45	**22.70**	22.48	22.40	24.78	24.88	24.89	22.13	22.51	**22.57**
		50	0	24.36	24.34	24.41	22.54	22.43	22.37	23.91	23.97	23.98	20.60	21.57	21.50
	16QAM	1	0	23.12	23.28	23.39	21.80	21.67	21.57	23.17	24.13	22.60	20.35	20.43	20.59
		1	1	24.26	24.65	**24.74**	**22.62**	22.44	22.45	23.55	23.86	23.74	21.34	21.49	21.48
		1	50	24.22	24.25	24.59	**22.62**	22.47	22.45	**24.27**	23.31	24.14	21.40	**21.71**	21.48
		1	51	23.45	23.23	23.52	21.71	21.69	21.52	23.49	23.14	22.77	20.79	20.48	20.75
		25	12	24.49	24.37	24.56	22.57	22.51	22.35	23.97	23.76	24.01	21.25	21.40	21.50
		50	0	23.30	23.37	23.42	21.51	21.39	21.37	22.76	23.01	22.95	20.17	20.47	20.47
	64QAM	1	0	22.58	**23.22**	22.86	21.24	21.21	21.14	22.79	22.98	**23.05**	19.72	19.95	20.52
		1	1	22.81	22.62	23.10	**21.35**	**21.35**	21.08	22.88	22.83	22.59	19.93	20.28	20.55
		1	50	23.01	23.05	23.03	21.30	21.02	20.98	22.91	22.85	22.39	19.99	20.41	20.07
		1	51	23.15	22.62	23.13	21.26	21.17	21.07	22.79	22.61	22.81	**20.88**	20.10	20.48
		25	12	23.13	23.01	23.08	20.91	20.97	20.86	22.45	22.50	22.43	19.86	20.07	20.01
		50	0	22.90	22.89	23.03	21.01	20.97	20.82	22.34	22.48	22.46	19.80	20.13	20.02
	256QAM	1	0	21.15	21.31	20.94	18.63	18.62	18.73	20.06	19.91	19.94	17.62	17.70	17.32
		1	1	21.18	20.78	21.22	18.71	18.77	18.69	20.00	19.91	20.18	17.88	17.37	17.46
		1	50	21.32	21.30	**21.68**	18.57	18.70	18.46	20.05	19.87	19.70	**18.15**	17.91	17.45
		1	51	21.22	21.20	21.66	18.62	18.63	18.71	20.16	20.11	**20.83**	18.05	18.04	17.50
		25	12	20.97	21.11	20.99	**18.80**	18.78	18.53	20.53	20.38	20.46	17.91	18.00	18.12
		50	0	20.80	20.92	20.92	**18.80**	18.69	18.67	20.37	20.42	20.41	18.00	18.10	18.01

OUTPUT POWER FOR 5G NR n7 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				501500	507000	512500	501500	507000	512500	501500	507000	512500	501500	507000	512500
				2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5
15.0	BPSK	1	0	24.81	24.68	24.87	22.57	22.49	22.43	24.59	24.38	24.36	21.48	21.66	21.67
		1	1	**25.69**	25.42	25.41	22.66	22.57	22.31	**25.15**	24.83	24.78	22.30	22.48	22.06
		1	77	25.27	25.37	25.57	**22.69**	22.67	22.45	25.07	24.82	25.05	**22.59**	22.14	22.42
		1	78	24.92	24.93	24.86	22.56	22.30	22.34	24.37	24.20	24.27	21.41	22.04	21.47
		36	18	25.12	25.23	25.05	22.54	22.46	22.28	24.83	24.90	24.97	22.29	22.19	22.27
		75	0	24.53	24.54	24.66	22.55	22.45	22.34	22.55	24.25	24.32	21.53	21.75	21.27
	QPSK	1	0	24.12	24.70	24.30	22.54	22.53	22.44	23.92	23.65	24.19	21.31	21.17	21.25
		1	1	**25.70**	25.18	25.16	22.65	22.57	22.44	24.71	25.04	25.11	21.82	22.18	21.87
		1	77	25.36	25.05	25.26	**22.69**	22.56	22.48	**25.20**	25.12	24.99	22.21	**22.70**	21.70
		1	78	24.16	24.49	24.18	22.65	22.48	22.47	23.82	23.82	23.98	20.04	21.72	21.09
		36	18	25.17	25.18	25.05	22.53	22.53	22.38	24.73	24.80	24.95	21.99	22.31	22.18
		75	0	24.11	24.15	24.14	22.63	22.48	22.35	23.95	23.89	23.88	20.28	21.28	20.76
	16QAM	1	0	23.26	23.26	23.29	21.91	21.71	21.81	22.92	23.05	22.64	20.77	20.29	20.39
		1	1	24.28	24.18	24.24	22.63	22.50	22.49	23.82	23.97	24.13	21.16	21.08	21.52
		1	77	24.12	**24.43**	24.38	22.65	**22.70**	22.30	**24.18**	23.96	24.16	**21.85**	21.49	20.92
		1	78	22.92	23.48	23.24	21.81	21.57	21.76	23.61	23.24	23.16	19.66	19.69	19.99
		36	18	24.15	24.18	24.20	22.50	22.54	22.33	24.04	23.91	24.05	21.21	21.44	21.24
		75	0	23.15	23.23	23.09	21.54	21.43	21.30	22.88	22.82	22.95	20.16	20.36	20.02
	64QAM	1	0	22.81	22.88	22.68	**21.32**	20.99	21.07	22.13	22.78	**23.07**	20.07	19.89	**20.77**
		1	1	23.10	22.80	22.41	21.25	21.06	20.79	23.03	22.22	22.84	20.13	19.91	19.41
		1	77	22.83	22.73	22.90	21.26	20.95	20.89	22.44	22.88	22.55	20.24	20.18	19.37
		1	78	22.94	**23.19**	22.76	21.28	20.95	20.84	22.83	22.72	22.49	20.46	20.51	19.69
		36	18	22.69	22.70	22.48	20.98	20.95	20.85	22.48	22.31	22.43	19.65	19.81	19.85
		75	0	22.60	22.61	22.58	21.01	20.94	20.80	22.39	22.32	22.41	19.47	19.84	19.61
	256QAM	1	0	21.24	20.87	21.16	18.75	18.59	18.75	20.08	19.88	20.35	16.64	17.19	17.99
		1	1	21.19	20.68	20.91	18.79	18.79	18.52	19.87	20.29	20.39	17.38	17.33	17.21
		1	77	20.82	21.17	21.06	18.79	18.74	18.62	20.03	20.13	20.04	17.97	17.68	17.30
		1	78	21.18	20.94	**21.42**	**18.83**	18.59	18.72	19.88	20.14	20.42	**18.06**	17.71	17.94
		36	18	20.69	20.77	20.54	18.74	18.70	18.46	20.41	20.44	**20.56**	17.64	17.79	17.76
		75	0	20.56	20.56	20.60	18.69	18.71	18.57	20.48	20.42	20.46	17.48	17.88	17.53

OUTPUT POWER FOR 5G NR n7 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				502000	507000	512000	502000	507000	512000	502000	507000	512000	502000	507000	512000
				2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0
20.0	BPSK	1	0	24.83	24.87	24.81	22.57	22.60	22.51	24.22	24.54	24.30	22.57	22.60	22.51
		1	1	25.36	25.51	25.45	22.55	22.62	22.43	**25.20**	25.07	24.87	22.55	22.62	22.43
		1	104	25.30	25.49	**25.55**	22.61	22.56	22.44	25.03	24.96	25.05	22.61	22.56	22.44
		1	105	25.07	25.17	21.12	**22.66**	22.62	22.50	24.88	24.63	24.38	**22.66**	22.62	22.50
		50	25	25.30	25.29	25.42	22.64	22.53	22.37	24.76	24.89	24.96	22.64	22.53	22.37
		100	0	24.82	24.82	24.84	20.48	22.49	22.32	22.53	23.70	23.40	20.48	22.49	22.32
	QPSK	1	0	24.29	24.56	24.53	22.55	22.58	22.48	24.03	24.19	24.42	22.55	22.58	22.48
		1	1	25.41	25.65	25.23	22.61	22.59	22.48	24.79	24.92	24.99	22.61	22.59	22.48
		1	104	25.29	**25.70**	25.35	22.66	22.59	22.54	24.96	24.83	24.92	22.66	22.59	22.54
		1	105	24.54	24.69	22.92	**22.70**	22.56	22.44	23.95	23.96	24.14	**22.70**	22.56	22.44
		50	25	25.40	25.40	25.40	22.63	22.51	22.39	25.01	24.78	**25.13**	22.63	22.51	22.39
		100	0	24.38	24.33	24.31	22.55	22.50	22.32	23.83	23.79	23.99	22.55	22.50	22.32
	16QAM	1	0	23.42	23.23	23.51	21.84	21.53	21.56	23.18	23.03	23.62	21.84	21.53	21.56
		1	1	24.55	24.59	24.64	22.45	22.54	22.48	23.92	23.91	24.15	22.45	22.54	22.48
		1	104	24.39	**25.04**	24.69	22.54	22.49	22.41	23.89	**24.33**	24.20	22.54	22.49	22.41
		1	105	23.54	23.62	23.20	21.65	21.56	21.47	23.34	22.89	22.98	21.65	21.56	21.47
		50	25	24.36	24.35	24.42	22.59	**22.62**	22.36	24.03	23.86	24.02	22.59	**22.62**	22.36
		100	0	23.29	23.41	23.24	21.53	21.43	21.31	22.91	22.80	22.91	21.53	21.43	21.31
	64QAM	1	0	23.29	22.78	22.60	21.09	21.19	21.09	22.88	22.29	22.69	21.09	21.19	21.09
		1	1	23.21	23.26	22.29	**21.26**	21.08	20.91	22.52	22.49	22.82	**21.26**	21.08	20.91
		1	104	23.17	**23.41**	22.74	20.93	21.25	21.11	22.91	**23.15**	22.33	20.93	21.25	21.11
		1	105	23.10	23.21	23.14	21.22	21.16	21.06	22.71	22.23	22.73	21.22	21.16	21.06
		50	25	22.71	22.93	22.70	21.01	20.96	20.86	22.53	22.44	22.49	21.01	20.96	20.86
		100	0	22.70	22.90	22.66	20.93	20.93	20.82	22.77	22.29	22.44	20.93	20.93	20.82
	256QAM	1	0	21.27	20.91	20.91	18.86	18.61	18.48	19.85	19.91	20.37	18.86	18.61	18.48
		1	1	20.86	20.75	21.15	18.76	18.59	18.46	20.56	19.75	19.90	18.76	18.59	18.46
		1	104	20.85	21.18	21.19	18.76	18.59	18.43	20.53	20.05	19.85	18.76	18.59	18.43
		1	105	20.91	**21.45**	21.13	**18.96**	18.50	18.63	20.38	20.12	19.69	**18.96**	18.50	18.63
		50	25	20.86	20.89	20.78	18.86	18.81	18.70	20.52	20.28	**20.61**	18.86	18.81	18.70
		100	0	20.76	20.78	20.79	18.71	18.67	18.63	20.54	20.20	20.43	18.71	18.67	18.63

OUTPUT POWER FOR 5G NR n7 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				502500	507000	511500	502500	507000	511500	502500	507000	511500	502500	507000	511500
				2512.5	2535.0	2557.5	2512.5	2535.0	2557.5	2512.5	2535.0	2557.5	2512.5	2535.0	2557.5
25.0	BPSK	1	0	23.10	23.01	23.05	20.72	20.58	20.61	22.61	22.64	22.63	20.49	20.70	20.54
		1	1	23.55	23.49	23.58	21.02	**21.10**	21.07	23.07	**23.20**	23.11	20.93	21.13	21.09
		1	131	23.59	23.56	**23.66**	21.01	20.99	21.00	23.18	23.13	23.04	21.19	**21.20**	20.97
		1	132	23.13	23.22	23.09	20.68	20.65	20.69	22.58	22.60	22.41	20.62	20.63	20.48
		64	32	23.51	23.51	23.49	20.99	20.98	21.00	23.04	23.11	23.01	21.08	21.02	20.94
		128	0	23.03	23.05	23.02	20.51	20.53	20.50	22.52	22.54	22.51	20.49	20.49	20.44
	QPSK	1	0	22.69	22.78	22.71	20.06	20.12	20.01	22.19	22.40	22.27	20.07	20.31	20.23
		1	1	**23.70**	23.54	23.56	21.01	21.13	21.18	23.04	**23.18**	23.05	20.89	21.10	21.09
		1	131	23.57	23.55	23.69	**21.20**	21.07	21.04	23.15	23.07	23.05	**21.15**	21.14	20.84
		1	132	22.74	22.84	22.68	20.17	20.16	20.04	22.27	22.12	22.09	20.26	20.28	20.20
		64	32	23.49	23.53	23.46	20.98	21.03	20.97	23.08	23.14	23.03	21.08	21.03	20.93
		128	0	22.55	22.66	22.52	20.02	20.01	19.98	22.07	22.02	22.02	19.97	20.04	19.90
	16QAM	1	0	21.51	21.51	21.61	19.22	19.07	19.19	21.02	21.35	21.08	18.93	19.25	19.19
		1	1	22.61	22.53	22.65	19.84	19.91	19.89	21.94	**22.31**	22.09	19.75	19.93	19.98
		1	131	22.58	22.55	**22.73**	19.95	20.01	**20.12**	21.99	22.14	22.02	20.00	19.94	19.78
		1	132	21.63	21.74	21.69	19.24	19.20	19.11	21.14	21.23	21.02	19.07	19.20	19.10
		64	32	22.56	22.55	22.51	20.03	20.01	20.00	22.05	22.08	22.01	**20.07**	**20.07**	19.95
		128	0	21.56	21.69	21.52	19.09	19.05	19.02	21.07	21.08	21.00	19.03	19.03	18.88
	64QAM	1	0	21.13	21.16	21.16	18.69	18.74	18.69	20.68	20.54	20.72	18.57	18.77	18.75
		1	1	21.19	21.13	21.30	18.69	18.89	18.85	20.79	20.90	20.89	18.81	**19.10**	19.01
		1	131	21.28	21.24	21.19	18.68	**18.91**	18.54	20.90	20.93	20.78	18.94	18.97	18.82
		1	132	21.22	**21.36**	21.13	18.78	18.87	18.66	**20.95**	20.61	20.78	18.72	18.75	18.71
		64	32	21.05	21.06	20.91	18.57	18.46	18.47	20.56	20.56	20.60	18.54	18.57	18.46
		128	0	21.00	21.12	21.04	18.53	18.51	18.46	20.55	20.55	20.52	18.53	18.55	18.45
	256QAM	1	0	18.73	18.85	18.78	16.67	16.63	16.63	18.52	18.86	18.58	16.55	**16.78**	16.75
		1	1	18.87	18.89	**19.13**	16.67	16.74	16.77	18.75	**19.00**	18.78	16.58	16.71	16.51
		1	131	18.81	18.91	18.78	16.44	**16.78**	16.68	18.81	18.87	18.53	16.62	16.61	16.53
		1	132	18.81	18.87	18.79	16.56	16.63	16.48	18.69	18.91	18.55	16.70	16.67	16.62
		64	32	18.93	18.90	18.90	16.60	16.51	16.49	18.57	18.60	18.56	16.64	16.64	16.43
		128	0	19.01	19.00	19.00	16.54	16.51	16.50	18.57	18.53	18.52	16.55	16.58	16.48

OUTPUT POWER FOR 5G NR n7 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				503000	507000	511000	503000	507000	511000	503000	507000	511000	503000	507000	511000
				2515.0	2535.0	2555.0	2515.0	2535.0	2555.0	2515.0	2535.0	2555.0	2515.0	2535.0	2555.0
30.0	BPSK	1	0	23.08	22.95	23.12	20.76	20.64	20.65	22.49	22.81	22.77	20.53	20.67	20.70
		1	1	23.48	23.46	**23.65**	21.05	21.08	**21.10**	23.04	**23.20**	23.19	20.98	21.18	21.12
		1	158	23.54	23.48	23.54	21.04	21.02	21.05	23.10	23.09	23.14	**21.19**	21.12	21.06
		1	159	23.06	23.12	23.04	20.71	20.68	20.72	22.71	22.69	22.58	20.67	20.65	20.53
		80	40	23.44	23.44	23.39	21.05	21.01	21.03	23.16	23.03	23.16	21.11	21.16	21.01
		160	0	22.95	22.95	22.93	20.55	20.60	20.55	22.70	22.71	22.68	20.61	20.65	20.56
	QPSK	1	0	22.63	22.69	22.70	20.11	20.10	20.05	22.27	22.39	22.30	20.08	20.33	20.36
		1	1	23.65	23.47	**23.70**	21.05	21.17	21.18	23.10	**23.17**	23.14	20.91	**21.20**	21.19
		1	158	23.49	23.48	23.65	**21.20**	21.06	21.07	23.13	23.12	23.11	21.16	21.17	21.17
		1	159	22.67	22.72	22.57	20.16	20.13	20.09	22.30	22.18	22.10	20.20	20.39	20.21
		80	40	23.44	23.43	23.38	20.99	21.08	21.03	23.14	23.09	**23.17**	21.16	**21.20**	21.11
		160	0	22.49	22.56	22.44	20.05	20.09	20.05	22.24	22.18	22.25	20.16	20.24	20.10
	16QAM	1	0	21.42	21.44	21.57	19.25	19.10	19.20	21.03	21.20	21.08	18.87	19.12	19.28
		1	1	22.55	22.44	**22.68**	19.88	19.90	19.89	22.12	**22.34**	22.00	19.89	**20.17**	20.07
		1	158	22.51	22.48	22.66	19.97	20.03	**20.17**	22.20	22.18	22.02	20.07	19.93	19.84
		1	159	21.56	21.64	21.65	19.27	19.24	19.08	21.09	21.19	20.98	19.23	19.15	19.18
		80	40	22.48	22.46	22.43	20.07	20.04	20.03	22.10	22.10	22.14	20.12	20.15	20.07
		160	0	21.49	21.65	21.45	19.08	19.09	19.09	21.18	21.16	21.23	19.15	19.18	19.14
	64QAM	1	0	21.10	21.07	21.12	18.70	18.80	18.72	20.73	20.88	20.83	18.45	18.81	18.82
		1	1	21.14	21.06	21.15	18.72	18.88	18.87	20.81	20.99	**21.04**	18.75	19.05	**19.11**
		1	158	21.23	21.14	21.16	18.68	**18.89**	18.60	20.97	21.03	**21.04**	18.74	18.89	18.88
		1	159	21.15	**21.26**	21.06	18.79	18.86	18.72	20.79	20.90	20.88	18.82	18.74	18.81
		80	40	20.96	20.99	20.88	18.56	18.48	18.53	20.75	20.72	20.73	18.56	18.64	18.54
		160	0	20.93	21.03	20.95	18.54	18.54	18.51	20.65	20.64	20.70	18.58	18.67	18.52
	256QAM	1	0	18.52	18.77	18.66	16.68	16.69	16.68	18.70	**18.91**	18.66	16.56	**16.92**	16.85
		1	1	18.74	18.83	18.93	16.70	**16.80**	**16.80**	18.76	18.83	18.58	16.74	16.86	16.79
		1	158	18.75	18.84	18.67	16.49	16.79	16.67	18.76	18.78	18.70	16.69	16.81	16.59
		1	159	18.74	18.80	18.68	16.63	16.66	16.51	18.53	18.82	18.63	16.71	16.73	16.61
		80	40	18.86	18.85	18.85	16.65	16.52	16.49	18.67	18.65	18.65	16.70	16.68	16.55
		160	0	18.93	**18.95**	**18.95**	16.61	16.55	16.50	18.65	18.62	18.64	16.68	16.66	16.55

OUTPUT POWER FOR 5G NR n7 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				504000	507000	510000	504000	507000	510000	504000	507000	510000	504000	507000	510000
				2520.0	2535.0	2550.0	2520.0	2535.0	2550.0	2520.0	2535.0	2550.0	2520.0	2535.0	2550.0
40.0	BPSK	1	0	23.05	22.97	23.03	20.58	20.58	20.52	22.67	22.80	22.66	20.38	20.65	20.58
		1	1	23.50	23.49	**23.62**	20.98	**21.03**	20.96	23.09	23.19	**23.20**	21.03	21.14	21.14
		1	214	23.57	23.51	23.58	20.98	20.97	20.96	23.16	**23.20**	23.04	**21.15**	21.03	21.10
		1	215	23.15	23.03	23.05	20.61	20.54	20.49	22.57	22.69	22.59	20.67	20.66	20.58
		108	54	23.43	23.48	23.40	20.98	20.95	20.93	23.12	23.14	23.00	21.08	21.07	20.99
		216	0	23.04	23.01	22.96	20.44	20.56	20.49	22.69	22.71	22.67	20.61	20.62	20.53
	QPSK	1	0	22.71	22.62	22.74	19.97	20.25	20.03	22.23	22.40	22.39	20.01	20.32	20.30
		1	1	23.50	23.47	**23.70**	21.06	**21.20**	21.01	23.12	**23.18**	23.12	20.91	21.12	21.17
		1	214	23.53	23.52	23.66	21.13	20.99	21.13	23.16	23.13	23.05	21.13	21.11	**21.20**
		1	215	22.84	22.51	22.56	20.07	20.01	19.98	22.27	22.21	22.33	20.14	20.23	20.23
		108	54	23.50	23.49	23.40	20.98	21.02	20.92	23.16	23.15	23.03	21.11	21.12	21.07
		216	0	22.51	22.62	22.46	19.97	20.00	19.96	22.20	22.17	22.18	20.12	20.20	20.09
	16QAM	1	0	21.64	21.51	21.47	19.08	19.16	19.08	21.13	21.22	21.08	18.59	19.15	19.18
		1	1	22.57	**22.71**	22.68	20.02	**20.19**	20.13	22.05	**22.22**	22.13	19.83	20.04	19.97
		1	214	22.53	22.50	22.67	19.94	19.98	20.12	22.06	22.15	22.01	20.00	19.87	19.66
		1	215	21.76	21.51	21.65	19.01	19.15	19.03	21.13	21.26	21.04	19.17	18.89	18.89
		108	54	22.48	22.50	22.46	20.00	19.98	19.98	22.18	22.16	22.11	**20.15**	**20.15**	20.03
		216	0	21.54	21.67	21.46	19.01	19.09	18.96	21.23	21.19	21.21	19.12	19.11	19.06
	64QAM	1	0	21.24	21.16	21.24	18.52	18.65	18.52	20.83	20.88	20.84	18.30	18.87	18.76
		1	1	21.14	21.08	21.19	18.62	18.54	18.75	20.78	21.00	**21.10**	18.63	18.98	**19.03**
		1	214	21.19	**21.26**	21.16	18.59	**18.81**	18.63	20.95	20.94	21.05	18.63	18.80	18.64
		1	215	21.23	21.22	21.06	18.46	18.55	18.55	20.82	21.00	20.71	18.63	18.74	18.72
		108	54	21.02	20.98	20.89	18.53	18.44	18.47	20.77	20.80	20.75	18.62	18.59	18.63
		216	0	21.01	21.06	20.98	18.53	18.48	18.45	20.75	20.71	20.74	18.68	18.62	18.61
	256QAM	1	0	18.76	18.71	18.57	16.61	16.70	16.67	18.73	**18.89**	18.59	16.43	**16.83**	16.70
		1	1	18.62	18.75	18.91	16.63	**16.75**	16.73	18.61	18.78	18.81	16.74	16.74	16.74
		1	214	18.79	18.83	18.72	16.39	16.74	16.51	18.57	**18.89**	18.70	16.78	16.65	16.71
		1	215	18.66	18.85	18.72	16.49	16.67	16.62	18.80	18.86	18.53	16.72	16.75	16.60
		108	54	18.92	18.86	18.87	16.58	16.45	16.47	18.65	18.62	18.69	16.76	16.59	16.59
		216	0	18.93	**18.99**	18.97	16.47	16.51	16.48	18.70	18.63	18.64	16.73	16.74	16.61

8.3. LTE BAND 12 AND 5G NR n12

LTE BAND 12

Test Engineer ID:	10646	Test Date:	4/9/2021

OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				23017	23095	23173	23017	23095	23173
				699.7 MHz	707.5 MHz	715.3 MHz	699.7 MHz	707.5 MHz	715.3 MHz
1.4	QPSK	1	0	25.65	25.59	25.63	24.53	24.50	24.48
		1	2	25.69	25.63	**25.70**	**24.70**	24.55	24.50
		1	5	25.65	25.55	25.63	24.53	24.49	24.47
		3	0	25.59	25.57	25.55	24.46	24.51	24.43
		3	1	25.68	25.59	25.57	24.46	24.57	24.42
		3	2	25.68	25.62	25.50	24.41	24.48	24.36
		6	0	24.63	24.62	24.59	23.55	23.51	23.54
	16QAM	1	0	24.73	24.49	24.46	23.68	23.99	23.65
		1	2	24.82	24.65	24.53	23.67	**24.10**	23.73
		1	5	24.72	24.50	24.48	23.70	23.97	23.62
		3	0	24.81	24.78	24.63	23.65	23.80	23.75
		3	1	**24.84**	24.73	24.63	23.67	23.79	23.77
		3	2	**24.84**	24.72	24.62	23.62	23.76	23.74
		6	0	23.51	23.75	23.72	22.74	22.50	22.71
	64QAM	1	0	23.49	23.64	23.85	23.07	22.63	22.87
		1	2	23.63	23.77	**23.95**	**23.13**	22.78	22.88
		1	5	23.53	23.70	23.90	23.01	22.67	22.86
		3	0	23.69	23.46	23.83	22.92	22.73	22.52
		3	1	23.75	23.47	23.78	22.90	22.78	22.57
		3	2	23.72	23.44	23.88	22.89	22.76	22.59
		6	0	22.95	22.67	22.53	21.59	21.95	21.64
	256QAM	1	0	20.24	20.32	20.61	19.61	19.29	19.43
		1	2	20.35	20.43	20.73	19.73	19.40	19.48
		1	5	20.26	20.38	20.66	19.57	19.45	19.39
		3	0	20.69	20.63	20.68	**19.79**	**19.79**	19.68
		3	1	20.70	**20.82**	20.63	19.74	19.73	19.69
		3	2	20.65	20.66	20.73	19.72	19.73	19.70
		6	0	20.58	20.65	20.57	19.64	19.62	19.61

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				23025	23095	23165	23025	23095	23165
				700.5 MHz	707.5 MHz	714.5 MHz	700.5 MHz	707.5 MHz	714.5 MHz
3.0	QPSK	1	0	**25.70**	25.63	25.64	**24.70**	24.65	24.62
		1	7	25.62	25.56	25.60	24.58	24.49	24.53
		1	14	25.63	25.57	25.60	24.63	24.59	24.56
		8	0	24.71	24.55	24.61	23.73	23.58	23.54
		8	4	24.60	24.64	24.63	23.63	23.65	23.64
		8	7	24.62	24.62	24.60	23.61	23.59	23.58
		15	0	24.67	24.69	24.69	23.66	23.72	23.72
	16QAM	1	0	**24.77**	24.56	24.51	**24.19**	23.87	23.82
		1	7	24.69	24.46	24.49	24.01	23.76	23.71
		1	14	24.69	24.55	24.45	24.10	23.70	23.60
		8	0	23.78	23.55	23.65	22.79	22.72	22.72
		8	4	23.70	23.65	23.72	22.76	22.78	22.79
		8	7	23.65	23.59	23.68	22.76	22.71	22.74
		15	0	23.68	23.63	23.69	22.77	22.70	22.77
	64QAM	1	0	23.54	23.61	**23.67**	22.81	22.97	22.91
		1	7	23.45	23.49	23.59	22.80	23.00	**23.02**
		1	14	23.56	23.60	23.63	22.81	22.94	22.82
		8	0	22.76	22.50	22.68	21.82	21.63	21.72
		8	4	22.71	22.55	22.69	21.77	21.63	21.77
		8	7	22.70	22.53	22.69	21.75	21.65	21.73
		15	0	22.72	22.67	22.69	21.77	21.82	21.66
	256QAM	1	0	20.28	20.48	**21.08**	19.50	19.59	**20.29**
		1	7	20.16	20.30	21.03	19.43	19.63	20.28
		1	14	20.25	20.34	**21.08**	19.45	19.58	20.25
		8	0	20.64	20.67	20.69	19.72	19.74	19.70
		8	4	20.56	20.60	20.73	19.63	19.73	19.66
		8	7	20.53	20.63	20.71	19.65	19.78	19.62
		15	0	20.74	20.68	20.67	19.75	19.74	19.66

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23035	23095	23155	23035	23095	23155
				701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz
5.0	QPSK	1	0	25.51	25.57	25.61	24.64	**24.70**	24.67
		1	12	25.37	25.47	**25.70**	24.63	24.57	24.58
		1	24	25.42	25.44	25.60	24.55	24.50	24.66
		12	0	24.46	24.47	24.46	23.58	23.57	23.49
		12	6	24.49	24.53	24.53	23.65	23.63	23.54
		12	11	24.45	24.46	24.44	23.56	23.60	23.56
		25	0	24.47	24.46	24.54	23.60	23.60	23.44
	16QAM	1	0	**24.79**	24.38	24.45	**24.07**	23.75	23.75
		1	12	24.69	24.34	24.40	24.06	23.72	23.79
		1	24	24.61	24.28	24.40	24.01	23.61	23.69
		12	0	23.57	23.48	23.49	22.76	22.65	22.65
		12	6	23.60	23.55	23.55	22.78	22.70	22.61
		12	11	23.54	23.49	23.47	22.73	22.71	22.61
		25	0	23.54	23.44	23.54	22.67	22.58	22.54
	64QAM	1	0	**23.58**	23.49	23.11	**23.00**	22.86	22.56
		1	12	23.56	23.48	23.08	22.94	22.95	22.57
		1	24	23.57	23.55	23.09	22.88	22.83	22.61
		12	0	22.45	22.52	22.51	21.58	21.68	21.59
		12	6	22.43	22.56	22.56	21.61	21.78	21.57
		12	11	22.39	22.53	22.51	21.57	21.66	21.64
		25	0	22.46	22.50	22.43	21.58	21.66	21.48
	256QAM	1	0	20.51	20.09	20.06	19.82	19.40	19.24
		1	12	20.39	20.10	19.98	**19.85**	19.53	19.33
		1	24	20.48	20.09	19.91	19.72	19.48	19.23
		12	0	20.54	20.51	20.43	19.67	19.67	19.54
		12	6	20.55	**20.59**	20.51	19.76	19.77	19.53
		12	11	20.53	20.52	20.43	19.72	19.70	19.56
		25	0	20.51	20.48	20.51	19.65	19.67	19.50

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23060	23095	23130	23060	23095	23130
				704.0 MHz	707.5 MHz	711.0 MHz	704.0 MHz	707.5 MHz	711.0 MHz
10.0	QPSK	1	0	**25.70**	25.62	25.62	24.56	24.67	**24.70**
		1	24	25.63	25.60	25.58	24.52	24.61	24.59
		1	49	25.61	25.61	25.53	24.52	24.56	24.62
		25	0	24.74	24.68	24.71	23.67	23.70	23.64
		25	12	24.74	24.74	24.67	23.70	23.74	23.59
		25	24	24.69	24.68	24.71	23.66	23.67	23.65
		50	0	24.74	24.77	24.77	23.70	23.74	23.65
	16QAM	1	0	**24.80**	24.57	24.45	23.71	23.69	**24.16**
		1	24	24.74	24.52	24.38	23.67	23.58	24.04
		1	49	24.69	24.48	24.36	23.71	23.60	24.06
		25	0	23.80	23.76	23.72	22.80	22.77	22.73
		25	12	23.79	23.83	23.66	22.89	22.80	22.74
		25	24	23.71	23.76	23.74	22.80	22.71	22.72
		50	0	23.75	23.81	23.76	22.76	22.75	22.70
	64QAM	1	0	23.64	23.71	23.73	22.89	**22.97**	22.79
		1	24	23.69	23.73	23.69	22.92	**22.97**	22.74
		1	49	23.66	**23.76**	23.71	22.84	22.95	22.82
		25	0	22.85	22.78	22.83	21.82	21.76	21.80
		25	12	22.85	22.86	22.78	21.84	21.81	21.78
		25	24	22.83	22.84	22.82	21.84	21.79	21.86
		50	0	22.81	22.79	22.85	21.76	21.80	21.68
	256QAM	1	0	20.35	20.46	21.07	19.58	20.27	19.50
		1	24	20.34	20.49	21.11	19.67	20.27	19.40
		1	49	20.35	20.59	**21.19**	19.65	**20.33**	19.51
		25	0	20.76	20.82	20.77	19.84	19.73	19.75
		25	12	20.84	20.85	20.73	19.84	19.84	19.71
		25	24	20.77	20.79	20.82	19.82	19.77	19.72
		50	0	20.77	20.78	20.84	19.78	19.83	19.67

5G NR n12

Test Engineer ID:	19171	Test Date:	4/16/2021

OUTPUT POWER FOR 5G NR n12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				140300	141500	142700	140300	141500	142700
				701.5 MHz	707.5 MHz	713.5 MHz	701.5 MHz	707.5 MHz	713.5 MHz
5.0	BPSK	1	0	25.07	24.86	24.91	24.58	24.61	24.57
		1	1	25.49	25.69	**25.70**	**24.70**	24.62	24.51
		1	23	25.56	25.31	25.32	24.53	24.49	24.41
		1	24	24.93	24.66	24.58	24.48	24.49	24.41
		12	6	25.15	25.24	25.20	24.48	24.52	24.44
		25	0	24.62	24.69	24.59	24.50	24.47	24.37
	QPSK	1	0	24.20	24.33	24.40	24.39	24.11	24.22
		1	1	25.26	**25.51**	25.31	**24.67**	**24.67**	24.48
		1	23	25.21	25.40	25.23	24.54	24.50	24.39
		1	24	24.30	24.38	24.27	24.11	23.96	24.27
		12	6	25.30	25.36	25.14	24.49	24.53	24.43
		25	0	24.23	24.21	24.15	24.09	24.07	23.99
	16QAM	1	0	23.50	23.62	23.19	23.45	23.16	22.96
		1	1	24.47	**24.49**	24.38	**24.46**	24.28	24.25
		1	23	24.38	24.36	24.29	24.28	24.04	23.97
		1	24	23.51	23.40	23.61	23.35	23.11	23.44
		12	6	24.29	24.28	24.14	24.06	24.07	24.04
		25	0	23.21	23.23	23.10	23.03	23.02	22.91
	64QAM	1	0	23.01	**23.05**	22.51	22.61	22.59	22.67
		1	1	22.85	22.98	22.96	**22.70**	22.63	22.56
		1	23	22.66	22.78	22.61	22.55	22.42	22.58
		1	24	22.71	23.02	22.77	22.58	22.65	22.51
		12	6	22.65	22.78	22.55	22.49	22.53	22.46
		25	0	22.76	22.72	22.70	22.46	22.51	22.38
	256QAM	1	0	20.84	20.79	20.75	20.67	20.41	20.47
		1	1	20.66	**20.87**	20.76	20.69	20.53	20.49
		1	23	20.66	20.38	20.37	**20.76**	20.56	20.26
		1	24	20.59	20.54	20.60	20.61	20.41	20.44
		12	6	20.68	20.63	20.64	20.47	20.41	20.44
		25	0	20.75	20.73	20.70	20.51	20.46	20.38

OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				140800	141500	142200	140800	141500	142200
				704.0 MHz	707.5 MHz	711.0 MHz	704.0 MHz	707.5 MHz	711.0 MHz
10.0	BPSK	1	0	25.42	24.68	25.01	24.61	24.48	24.44
		1	1	**25.70**	**25.70**	25.61	**24.70**	24.58	24.52
		1	50	25.38	25.60	25.37	24.37	24.37	24.32
		1	51	25.18	24.87	25.11	24.46	24.34	24.38
		25	12	25.38	25.33	25.39	24.32	24.36	24.22
		50	0	24.94	24.84	21.41	24.24	24.38	24.26
	QPSK	1	0	24.40	24.40	24.68	24.11	23.93	23.90
		1	1	**25.66**	25.28	25.52	**24.60**	24.01	24.45
		1	50	25.39	25.47	25.38	24.36	24.18	24.30
		1	51	24.46	24.37	24.55	24.04	23.85	23.90
		25	12	25.30	25.39	25.32	24.29	24.22	24.26
		50	0	24.34	24.35	24.25	23.87	23.86	23.80
	16QAM	1	0	23.80	23.74	23.99	22.99	22.97	23.02
		1	1	24.68	24.69	24.55	**24.22**	24.12	24.02
		1	50	24.48	**24.92**	24.60	24.07	23.93	23.71
		1	51	23.70	23.93	23.33	22.98	22.90	22.89
		25	12	24.32	24.38	24.43	23.89	23.83	23.84
		50	0	23.45	23.33	23.29	22.87	22.84	22.78
	64QAM	1	0	23.22	22.90	**23.30**	**22.52**	22.49	22.31
		1	1	23.03	22.82	23.21	22.25	22.42	22.51
		1	50	23.03	23.04	23.07	22.36	22.42	22.34
		1	51	23.20	23.11	23.08	22.35	22.50	22.33
		25	12	22.91	22.83	22.98	22.25	22.30	22.29
		50	0	22.95	22.86	22.80	22.23	22.29	22.19
	256QAM	1	0	20.93	20.63	21.00	20.48	20.30	20.30
		1	1	21.08	21.11	21.07	20.31	20.32	20.44
		1	50	20.95	21.09	20.82	**20.53**	20.30	20.34
		1	51	**21.17**	20.93	21.02	20.44	20.37	20.28
		25	12	20.86	20.84	20.90	20.31	20.34	20.22
		50	0	20.84	20.93	20.75	20.34	20.36	20.25

OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				141300	141500	141700	141300	141500	141700
				706.5 MHz	707.5 MHz	708.5 MHz	706.5 MHz	707.5 MHz	708.5 MHz
15.0	BPSK	1	0	25.32	25.05	25.30	24.47	24.47	24.36
		1	1	**25.70**	25.59	25.45	**24.70**	24.36	24.66
		1	77	25.44	25.43	25.28	24.45	24.29	24.42
		1	78	24.90	24.85	24.99	24.37	24.38	24.48
		36	18	25.35	25.12	25.17	24.29	24.19	24.28
		75	0	24.71	24.60	24.62	24.26	24.32	24.28
	QPSK	1	0	24.57	24.16	24.37	24.07	24.09	23.99
		1	1	25.53	**25.56**	**25.56**	**24.65**	24.29	24.59
		1	77	25.53	25.27	25.31	24.47	24.34	24.42
		1	78	24.26	24.40	24.47	23.95	23.83	24.03
		36	18	25.21	25.25	25.18	24.36	24.23	24.29
		75	0	24.21	24.16	24.21	23.81	23.91	23.86
	16QAM	1	0	24.01	23.74	23.91	23.12	23.06	23.05
		1	1	24.67	**25.02**	24.80	**24.18**	24.13	24.06
		1	77	24.58	24.53	24.65	23.90	23.86	23.75
		1	78	23.49	23.69	23.48	23.22	22.86	22.80
		36	18	24.35	24.30	24.25	23.92	23.88	23.74
		75	0	23.21	23.16	23.16	22.88	22.87	22.88
	64QAM	1	0	**23.42**	23.13	23.13	**22.54**	22.43	22.39
		1	1	23.01	23.09	23.09	22.30	**22.54**	22.51
		1	77	23.34	22.89	22.77	22.43	22.41	22.38
		1	78	22.97	23.15	23.06	22.38	22.37	22.43
		36	18	22.75	22.64	22.72	22.29	22.28	22.12
		75	0	22.68	22.60	22.66	22.35	22.19	22.29
	256QAM	1	0	21.00	**21.39**	20.99	**20.38**	20.36	20.30
		1	1	21.03	21.31	20.92	20.30	20.14	20.28
		1	77	21.00	21.37	21.09	20.35	20.20	20.15
		1	78	20.74	20.36	21.14	20.17	20.16	20.28
		36	18	20.75	20.64	20.73	20.24	20.17	20.16
		75	0	20.73	20.70	20.69	20.21	20.15	20.29

8.4. LTE BAND 13

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23205	23230	23255	23205	23230	23255
				779.5 MHz	782.0 MHz	784.5 MHz	779.5 MHz	782.0 MHz	784.5 MHz
5.0	QPSK	1	0	25.45	**25.70**	25.58	24.58	24.62	**24.70**
		1	12	25.58	25.65	25.50	24.55	24.64	24.69
		1	24	25.57	25.59	25.56	24.64	24.66	24.66
		12	0	24.77	24.64	24.60	23.62	23.64	23.62
		12	6	24.68	24.66	24.66	23.67	23.70	23.66
		12	11	24.62	24.57	24.60	23.64	23.66	23.62
		25	0	24.67	24.70	24.67	23.65	23.73	23.73
	16QAM	1	0	24.50	24.75	**25.08**	24.11	23.74	23.82
		1	12	24.75	24.77	25.04	24.11	23.71	23.79
		1	24	24.60	24.75	24.95	**24.12**	23.66	23.75
		12	0	23.81	23.75	23.68	22.79	22.77	22.74
		12	6	23.76	23.75	23.74	22.86	22.83	22.85
		12	11	23.69	23.71	23.75	22.85	22.81	22.79
		25	0	23.63	23.73	23.75	22.79	22.73	22.74
	64QAM	1	0	22.55	23.63	23.85	22.45	22.83	22.64
		1	12	23.97	23.63	**24.07**	**23.11**	22.92	22.65
		1	24	23.85	23.62	23.90	22.88	22.95	22.65
		12	0	22.16	22.75	22.58	21.59	21.77	21.70
		12	6	22.83	22.68	22.63	21.65	21.86	21.79
		12	11	22.77	22.70	22.55	21.67	21.80	21.71
		25	0	22.75	22.67	22.64	21.71	21.80	21.73
	256QAM	1	0	20.49	20.25	20.69	19.81	19.52	19.42
		1	12	20.65	20.39	20.74	**20.23**	19.53	19.34
		1	24	20.47	20.28	**20.83**	19.76	19.57	19.33
		12	0	20.81	20.68	20.64	19.62	19.77	19.66
		12	6	20.78	20.68	20.72	19.76	19.86	19.73
		12	11	20.81	20.63	20.70	19.74	19.81	19.72
		25	0	20.76	20.68	20.62	19.72	19.78	19.76

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				N/A	23230	N/A	N/A	23230	N/A
				N/A	782.0 MHz	N/A	N/A	782.0 MHz	N/A
10.0	QPSK	1	0		25.46			**24.70**	
		1	24		**25.70**			**24.70**	
		1	49		25.69			24.64	
		25	0		24.81			23.76	
		25	12		24.90			23.84	
		25	24		24.83			23.80	
		50	0		24.89			23.77	
	16QAM	1	0		25.00			**24.13**	
		1	24		**25.16**			24.10	
		1	49		**25.16**			24.06	
		25	0		23.88			22.80	
		25	12		23.94			22.85	
		25	24		23.89			22.81	
		50	0		23.95			22.80	
	64QAM	1	0		22.71			22.57	
		1	24		**23.99**			**22.96**	
		1	49		23.93			22.90	
		25	0		22.91			21.85	
		25	12		22.92			21.93	
		25	24		22.92			21.87	
		50	0		22.95			21.82	
	256QAM	1	0		20.55			19.50	
		1	24		20.57			19.57	
		1	49		20.55			19.64	
		25	0		20.87			19.84	
		25	12		**20.92**			**19.86**	
		25	24		20.89			19.85	
		50	0		20.88			19.76	

8.5. LTE BAND 14

Test Engineer ID:	10646	Test Date:	4/9/2021

OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				23305	23330	23355	23305	23330	23355
				790.5 MHz	793.0 MHz	795.5 MHz	790.5 MHz	793.0 MHz	795.5 MHz
5.0	QPSK	1	0	**25.70**	25.48	25.58	24.60	24.68	24.49
		1	12	25.69	25.46	25.58	24.59	**24.70**	24.50
		1	24	25.68	25.52	25.57	24.57	24.61	24.48
		12	0	24.50	24.45	24.50	23.57	23.49	23.52
		12	6	24.56	24.57	24.51	23.68	23.53	23.51
		12	11	24.51	24.55	24.54	23.60	23.48	23.49
		25	0	24.54	24.55	24.60	23.60	23.57	23.57
	16QAM	1	0	24.53	24.75	24.46	23.67	23.76	**24.09**
		1	12	24.49	**24.89**	24.42	23.74	23.68	24.02
		1	24	24.45	24.77	24.30	23.65	23.68	23.95
		12	0	23.57	23.56	23.62	22.64	22.60	22.70
		12	6	23.70	23.69	23.56	22.75	22.76	22.73
		12	11	23.60	23.67	23.58	22.69	22.67	22.74
		25	0	23.55	23.61	23.54	22.60	22.64	22.64
	64QAM	1	0	23.19	23.62	23.50	22.73	22.57	22.92
		1	12	23.15	**23.76**	23.61	22.96	22.60	**23.03**
		1	24	23.00	23.66	23.60	22.80	22.51	22.77
		12	0	22.50	22.45	22.57	21.64	21.52	21.45
		12	6	22.66	22.53	22.67	21.72	21.68	21.54
		12	11	22.57	22.51	22.62	21.70	21.60	21.52
		25	0	22.58	22.54	22.62	21.62	21.57	21.56
	256QAM	1	0	20.05	20.48	20.09	19.32	19.23	19.84
		1	12	20.06	20.48	20.31	19.35	19.30	**20.17**
		1	24	20.00	20.49	20.17	19.46	19.16	19.69
		12	0	20.47	20.51	20.59	19.61	19.48	19.57
		12	6	20.61	20.64	20.63	19.75	19.60	19.63
		12	11	20.52	20.59	**20.66**	19.66	19.57	19.67
		25	0	20.53	20.58	20.61	19.63	19.55	19.59

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				N/A	23330	N/A	N/A	23330	N/A
				N/A	793.0 MHz	N/A	N/A	793.0 MHz	N/A
10.0	QPSK	1	0		**25.70**			**24.70**	
		1	24		25.67			24.64	
		1	49		25.64			24.60	
		25	0		24.73			23.70	
		25	12		24.81			23.80	
		25	24		24.79			23.70	
		50	0		24.80			23.71	
	16QAM	1	0		**24.66**			**24.19**	
		1	24		24.58			24.13	
		1	49		24.64			24.08	
		25	0		23.79			22.77	
		25	12		23.85			22.87	
		25	24		23.87			22.76	
		50	0		23.82			22.80	
	64QAM	1	0		**23.79**			**22.91**	
		1	24		23.75			22.84	
		1	49		23.77			22.89	
		25	0		22.80			21.75	
		25	12		22.85			21.81	
		25	24		22.86			21.84	
		50	0		22.85			21.84	
	256QAM	1	0		20.42			19.55	
		1	24		20.50			19.49	
		1	49		20.57			19.57	
		25	0		20.84			19.73	
		25	12		**20.90**			**19.82**	
		25	24		**20.90**			19.75	
		50	0		20.80			19.75	

8.6. LTE BAND 17

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23755	23790	23825	23755	23790	23825
				706.5 MHz	710.0 MHz	713.5 MHz	706.5 MHz	710.0 MHz	713.5 MHz
5.0	QPSK	1	0	25.46	25.47	25.62	24.54	24.61	24.68
		1	12	25.40	25.51	**25.70**	24.52	24.55	24.58
		1	24	25.48	25.56	25.67	24.49	24.64	**24.70**
		12	0	24.43	24.43	24.40	23.55	23.53	23.47
		12	6	24.46	24.52	24.35	23.62	23.61	23.55
		12	11	24.25	24.38	24.35	23.55	23.57	23.56
		25	0	24.37	24.36	24.33	23.58	23.58	23.48
	16QAM	1	0	24.55	24.26	24.34	24.00	23.71	23.71
		1	12	24.53	24.20	24.34	24.04	23.90	23.73
		1	24	**24.60**	24.28	24.30	**24.08**	23.73	23.73
		12	0	23.45	23.38	23.40	22.73	22.64	22.60
		12	6	23.51	23.45	23.45	22.81	22.67	22.61
		12	11	23.48	23.44	23.42	22.75	22.70	22.66
		25	0	23.43	23.36	23.37	22.67	22.58	22.51
	64QAM	1	0	23.48	23.38	22.99	22.83	22.79	22.50
		1	12	**23.62**	23.41	22.96	**23.08**	22.94	22.57
		1	24	23.56	23.46	22.99	23.01	22.87	22.55
		12	0	22.30	22.41	22.43	21.52	21.62	21.59
		12	6	22.35	22.52	22.48	21.56	21.76	21.58
		12	11	22.29	22.50	22.47	21.58	21.66	21.62
		25	0	22.35	22.39	22.35	21.57	21.59	21.54
	256QAM	1	0	20.31	19.92	19.89	19.64	19.34	19.14
		1	12	**20.64**	20.10	19.86	**20.08**	19.57	19.35
		1	24	20.44	19.99	19.82	19.84	19.53	19.26
		12	0	20.38	20.40	20.31	19.62	19.62	19.53
		12	6	20.45	20.50	20.41	19.71	19.74	19.54
		12	11	20.41	20.46	20.37	19.69	19.71	19.62
		25	0	20.41	20.48	20.31	19.63	19.66	19.50

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23780	23790	23800	23780	23790	23800
				709.0 MHz	710.0 MHz	711.0 MHz	709.0 MHz	710.0 MHz	711.0 MHz
10.0	QPSK	1	0	25.69	25.64	25.64	24.53	24.61	**24.70**
		1	24	25.63	25.61	25.62	24.49	24.59	24.63
		1	49	**25.70**	25.58	25.53	24.50	24.62	24.61
		25	0	24.66	24.64	24.66	23.61	23.62	23.56
		25	12	24.77	24.76	24.69	23.67	23.67	23.60
		25	24	24.71	24.75	24.73	23.67	23.63	23.68
		50	0	24.73	24.75	24.72	23.66	23.71	23.61
	16QAM	1	0	**24.76**	24.55	24.53	23.73	23.66	**24.09**
		1	24	24.75	24.55	24.38	23.70	23.60	24.06
		1	49	**24.76**	24.65	24.48	23.73	23.62	24.08
		25	0	23.71	23.70	23.73	22.69	22.66	22.68
		25	12	23.73	23.83	23.71	22.84	22.76	22.70
		25	24	23.72	23.83	23.76	22.82	22.74	22.71
		50	0	23.74	23.81	23.69	22.78	22.71	22.67
	64QAM	1	0	23.61	23.76	23.74	22.87	22.95	22.77
		1	24	23.68	23.71	**23.77**	22.88	22.96	22.91
		1	49	23.66	**23.77**	23.70	22.81	**22.97**	22.79
		25	0	22.80	22.77	22.76	21.72	21.70	21.75
		25	12	22.89	22.89	22.76	21.83	21.79	21.78
		25	24	22.89	22.89	22.81	21.87	21.78	21.80
		50	0	22.83	22.77	22.74	21.72	21.73	21.70
	256QAM	1	0	20.20	20.41	20.98	19.46	20.22	19.41
		1	24	20.35	20.48	21.12	19.71	20.29	19.51
		1	49	20.44	20.57	**21.24**	19.67	**20.34**	19.56
		25	0	20.71	20.76	20.70	19.68	19.65	19.69
		25	12	20.82	20.85	20.74	19.84	19.79	19.71
		25	24	20.77	20.83	20.82	19.78	19.77	19.71
		50	0	20.76	20.74	20.74	19.74	19.80	19.64

8.7. LTE BAND 25 AND 5G NR n25

LTE BAND 25

Test Engineer ID:	10646	Test Date:	4/14/2021

OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
				1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3
1.4	QPSK	1	0	25.51	25.56	25.62	23.08	23.14	23.08	25.02	25.16	25.05	23.04	22.97	22.84
		1	2	25.56	25.62	25.68	23.11	23.13	23.11	25.16	25.19	25.17	**23.20**	23.05	22.91
		1	5	25.58	25.64	**25.70**	23.12	**23.20**	23.10	25.11	**25.20**	25.18	23.13	23.04	22.95
		3	0	25.50	25.50	25.58	23.05	23.05	23.03	25.08	25.08	25.11	23.01	22.96	22.82
		3	1	25.61	25.59	25.66	23.13	23.05	23.11	25.15	25.12	25.17	23.07	23.03	22.90
		3	2	25.57	25.54	25.69	23.14	23.03	23.10	25.19	**25.20**	25.19	23.11	23.07	22.91
		6	0	24.65	24.67	24.65	22.16	22.14	22.15	24.20	24.22	24.19	22.16	22.04	21.92
	16QAM	1	0	24.45	24.47	24.72	22.14	22.24	22.53	24.19	24.32	24.60	22.17	22.46	22.02
		1	2	24.64	24.52	24.81	22.28	22.23	**22.75**	24.30	24.38	**24.83**	22.16	**22.66**	22.18
		1	5	24.53	24.53	24.73	22.28	22.31	22.63	24.31	24.38	24.66	22.29	22.51	22.13
		3	0	24.68	24.66	24.82	22.38	22.17	22.37	24.40	24.30	24.57	22.16	22.28	22.17
		3	1	24.76	24.66	24.88	22.49	22.28	22.41	24.48	24.32	24.49	22.22	22.32	22.27
		3	2	24.75	24.68	**24.90**	22.46	22.24	22.44	24.44	24.29	24.45	22.26	22.32	22.22
		6	0	23.75	23.75	23.56	21.38	21.26	21.05	23.42	23.38	23.11	21.32	21.00	21.14
	64QAM	1	0	23.66	23.86	23.56	21.49	21.58	21.23	23.48	23.67	23.28	21.54	21.15	21.31
		1	2	23.75	**23.97**	23.69	21.56	**21.72**	21.38	23.55	**23.79**	23.47	**21.73**	21.31	21.33
		1	5	23.77	23.92	23.62	21.57	**21.72**	21.21	23.55	**23.79**	23.33	21.68	21.24	21.41
		3	0	23.47	23.86	23.67	21.20	21.37	21.29	23.18	23.54	23.26	21.48	21.15	20.90
		3	1	23.49	**23.97**	23.79	21.19	21.42	21.35	23.24	23.52	23.44	21.44	21.26	20.98
		3	2	23.49	23.94	23.78	21.24	21.51	21.39	23.25	23.63	23.36	21.49	21.25	20.92
		6	0	22.69	22.57	22.98	20.31	20.14	20.50	22.37	22.18	22.51	20.11	20.39	20.11
	256QAM	1	0	20.37	20.56	20.25	18.10	18.21	17.98	20.12	20.24	19.96	18.18	17.88	17.87
		1	2	20.42	20.72	20.29	18.16	18.28	17.94	20.18	20.32	20.01	**18.34**	17.96	17.93
		1	5	20.43	20.59	20.28	18.17	18.32	18.00	20.17	20.31	20.08	18.24	17.98	17.92
		3	0	20.58	20.71	20.70	18.28	18.25	18.28	20.24	20.33	20.28	18.14	18.17	17.95
		3	1	20.69	20.71	20.70	18.34	18.25	18.23	20.35	20.32	20.30	18.19	18.19	18.10
		3	2	**20.81**	20.69	20.68	**18.37**	18.29	18.24	**20.45**	20.32	20.27	18.22	18.19	18.17
		6	0	20.66	20.63	20.62	18.29	18.16	18.18	20.30	20.23	20.19	18.14	18.09	18.05

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
				1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5
3.0	QPSK	1	0	25.51	25.57	25.54	23.08	23.02	23.02	25.04	25.01	24.93	23.08	23.01	23.01
		1	7	25.59	25.60	25.54	22.94	23.08	23.00	25.05	24.96	24.98	22.99	23.02	22.99
		1	14	25.62	**25.70**	**25.70**	23.12	23.16	**23.20**	**25.20**	25.11	25.16	**23.20**	23.17	23.17
		8	0	24.66	24.54	24.59	22.14	22.09	22.04	24.16	24.03	24.00	22.19	22.14	22.02
		8	4	24.74	24.70	24.66	22.20	22.13	22.16	24.19	24.19	24.12	22.25	22.21	22.10
		8	7	24.71	24.73	24.78	22.23	22.21	22.22	24.19	24.20	24.16	22.26	22.20	22.17
		15	0	24.69	24.58	24.63	22.22	22.11	22.04	24.16	24.10	24.07	22.23	22.17	22.10
	16QAM	1	0	24.31	24.62	24.50	22.27	22.07	22.51	24.52	24.18	24.02	22.26	22.11	22.52
		1	7	24.31	24.64	24.56	22.28	22.15	**22.70**	**24.65**	24.19	24.11	22.25	22.13	22.67
		1	14	24.40	**24.77**	24.69	22.35	22.19	22.66	**24.65**	24.28	24.19	22.38	22.22	**22.69**
		8	0	23.69	23.61	23.63	21.20	21.16	21.11	23.21	23.10	23.12	21.27	21.24	21.13
		8	4	23.72	23.73	23.67	21.30	21.22	21.24	23.25	23.24	23.16	21.29	21.22	21.18
		8	7	23.75	23.73	23.80	21.26	21.30	21.25	23.26	23.25	23.32	21.31	21.35	21.25
		15	0	23.72	23.60	23.60	21.19	21.17	21.12	23.24	23.10	23.13	21.21	21.24	21.15
	64QAM	1	0	23.55	23.42	23.57	21.44	21.39	21.17	23.17	23.33	23.30	21.41	21.45	21.20
		1	7	23.60	23.52	23.54	21.44	21.53	21.36	23.35	23.38	23.50	21.45	21.55	21.33
		1	14	**23.73**	23.64	**23.73**	21.44	**21.59**	21.39	23.34	23.48	**23.53**	21.47	**21.58**	21.35
		8	0	22.72	22.61	22.49	20.11	20.22	20.09	22.20	22.00	22.17	20.16	20.26	20.16
		8	4	22.75	22.73	22.56	20.20	20.22	20.27	22.25	22.15	22.18	20.23	20.34	20.18
		8	7	22.82	22.76	22.68	20.15	20.35	20.31	22.31	22.15	22.33	20.25	20.35	20.22
		15	0	22.65	22.61	22.70	20.27	20.19	20.17	22.24	22.20	22.06	20.32	20.20	20.19
	256QAM	1	0	20.96	20.12	20.25	18.00	18.71	17.80	19.88	19.92	20.60	18.06	18.75	17.93
		1	7	21.02	20.22	20.32	18.13	18.75	18.04	19.92	20.01	20.73	18.11	18.77	17.91
		1	14	**21.13**	20.31	20.57	18.18	**18.91**	18.01	20.06	20.12	**20.80**	18.20	**18.87**	17.94
		8	0	20.73	20.46	20.58	18.26	18.12	17.99	20.15	20.07	20.10	18.26	18.21	18.06
		8	4	20.76	20.57	20.63	18.24	18.24	18.11	20.12	20.17	20.05	18.30	18.27	18.04
		8	7	20.79	20.60	20.76	18.34	18.27	18.16	20.19	20.25	20.29	18.30	18.35	18.06
		15	0	20.66	20.62	20.62	18.24	18.14	18.17	20.24	20.15	20.05	18.29	18.17	18.19

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
				1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
5.0	QPSK	1	0	25.51	25.52	25.65	23.05	23.11	23.09	25.02	25.07	25.07	23.06	23.19	23.00
		1	12	25.49	25.55	25.69	23.05	23.05	23.17	25.13	25.11	25.15	23.16	23.19	23.00
		1	24	25.56	25.57	**25.70**	23.08	23.11	**23.20**	25.07	25.12	**25.20**	**23.20**	23.16	23.07
		12	0	24.57	24.51	24.56	22.08	22.07	21.94	24.11	24.02	24.01	22.14	22.09	21.95
		12	6	24.61	24.54	24.65	22.14	22.13	22.10	24.16	24.12	24.16	22.20	22.20	22.07
		12	11	24.65	24.64	24.69	22.18	22.11	22.11	24.18	24.17	24.12	22.21	22.22	22.07
		25	0	24.61	24.43	24.62	22.16	22.03	21.99	24.14	24.03	24.10	22.19	22.12	21.90
	16QAM	1	0	24.78	24.40	24.48	**22.60**	22.21	22.24	24.58	24.20	24.23	22.23	22.23	22.51
		1	12	24.77	24.46	24.50	22.57	22.41	22.26	**24.62**	24.29	24.33	22.33	22.34	22.53
		1	24	**24.82**	24.45	24.56	22.59	22.27	22.29	24.60	24.21	24.27	22.24	22.30	**22.58**
		12	0	23.68	23.50	23.60	21.27	21.15	21.06	23.27	23.10	23.05	21.22	21.16	21.13
		12	6	23.74	23.56	23.68	21.32	21.19	21.16	23.35	23.15	23.22	21.31	21.28	21.27
		12	11	23.74	23.69	23.73	21.36	21.18	21.17	23.31	23.27	23.22	21.33	21.27	21.27
		25	0	23.66	23.46	23.62	21.19	21.04	21.02	23.21	22.98	23.12	21.14	21.15	21.03
	64QAM	1	0	23.61	23.63	23.18	**21.52**	21.42	21.01	23.42	23.35	23.00	21.47	21.13	21.38
		1	12	23.72	**23.74**	23.25	21.50	21.44	21.12	23.41	**23.51**	23.12	**21.51**	21.18	**21.51**
		1	24	**23.74**	23.72	23.25	21.44	21.46	21.13	23.43	23.46	23.08	21.50	21.14	**21.51**
		12	0	22.52	22.59	22.58	20.07	20.12	20.04	22.06	22.14	22.02	20.20	20.15	19.93
		12	6	22.58	22.62	22.64	20.12	20.25	20.10	22.13	22.23	22.17	20.37	20.17	20.06
		12	11	22.62	22.72	22.65	20.16	20.18	20.15	22.17	22.28	22.21	20.21	20.28	20.10
		25	0	22.58	22.56	22.60	20.09	20.08	20.03	22.08	22.08	22.12	20.23	20.17	19.94
	256QAM	1	0	20.55	20.08	20.03	18.29	17.92	17.64	20.23	19.86	19.67	17.99	17.80	18.22
		1	12	20.53	20.20	20.06	**18.55**	18.17	17.83	**20.48**	20.00	19.79	18.09	17.83	**18.52**
		1	24	20.64	20.21	20.09	18.27	17.99	17.77	20.33	20.03	19.76	18.04	17.86	18.29
		12	0	20.63	20.54	20.49	18.19	18.13	17.97	20.18	20.09	19.93	18.25	18.10	17.99
		12	6	20.70	20.64	20.57	18.25	18.23	18.02	20.24	20.17	20.09	18.34	18.16	18.18
		12	11	20.68	**20.71**	20.59	18.26	18.24	18.06	20.27	20.29	20.10	18.37	18.19	18.17
		25	0	20.59	20.56	20.53	18.14	18.13	17.98	20.14	20.13	20.08	18.23	18.06	17.94

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
				1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
10.0	QPSK	1	0	**25.70**	25.55	25.53	23.17	23.08	23.05	25.18	25.14	25.09	**23.20**	23.06	23.09
		1	24	25.63	25.54	25.53	23.10	23.02	23.06	25.12	25.09	25.07	23.12	23.03	22.99
		1	49	25.67	25.57	25.67	**23.20**	23.06	23.19	25.18	25.08	**25.20**	23.16	23.04	23.09
		25	0	24.65	24.65	24.60	22.23	22.16	22.14	24.28	24.19	24.14	22.22	22.23	22.16
		25	12	24.73	24.68	24.67	22.24	22.17	22.16	24.31	24.23	24.25	22.27	22.24	22.16
		25	24	24.76	24.75	24.76	22.21	22.15	22.22	24.27	24.31	24.23	22.26	22.24	22.16
		50	0	24.74	24.66	24.66	22.24	22.16	22.21	24.27	24.19	24.24	22.25	22.21	22.16
	16QAM	1	0	24.79	24.53	24.36	**22.64**	22.28	22.19	**24.70**	24.32	24.16	**22.62**	22.26	22.14
		1	24	24.68	24.50	24.29	22.57	22.22	22.05	24.64	24.23	24.07	22.59	22.19	22.03
		1	49	**24.81**	24.55	24.48	22.61	22.25	22.15	24.63	24.28	24.18	22.61	22.21	22.10
		25	0	23.69	23.72	23.65	21.29	21.26	21.13	23.30	23.32	23.18	21.32	21.31	21.21
		25	12	23.76	23.75	23.66	21.30	21.25	21.26	23.32	23.32	23.28	21.32	21.36	21.19
		25	24	23.76	23.83	23.78	21.27	21.28	21.27	23.35	23.41	23.29	21.29	21.33	21.20
		50	0	23.77	23.67	23.62	21.27	21.25	21.17	23.30	23.21	23.22	21.28	21.29	21.12
	64QAM	1	0	23.66	23.74	23.59	21.40	21.41	21.42	23.42	23.39	23.43	**21.48**	21.42	21.46
		1	24	23.59	23.68	23.61	21.35	21.34	21.47	23.41	23.45	23.43	21.35	21.38	21.41
		1	49	23.64	23.70	**23.76**	21.46	21.41	**21.54**	23.41	23.39	**23.50**	21.41	21.37	21.43
		25	0	22.78	22.78	22.67	20.34	20.27	20.19	22.42	22.33	22.24	20.35	20.31	20.22
		25	12	22.85	22.77	22.69	20.36	20.27	20.27	22.42	22.31	22.30	20.37	20.33	20.24
		25	24	22.85	22.85	22.83	20.37	20.31	20.32	22.42	22.41	22.32	20.38	20.36	20.24
		50	0	22.80	22.68	22.67	20.29	20.23	20.27	22.31	22.24	22.27	20.31	20.28	20.22
	256QAM	1	0	20.31	20.53	21.02	17.98	18.12	18.74	20.07	20.13	20.77	18.05	18.09	**18.78**
		1	24	20.27	20.42	20.99	18.00	18.05	**18.79**	20.04	20.10	20.69	18.03	18.11	18.74
		1	49	20.32	20.52	**21.11**	18.01	18.17	**18.79**	20.07	20.20	**20.79**	18.04	18.19	18.67
		25	0	20.70	20.76	20.62	18.30	18.27	18.17	20.30	20.28	20.19	18.31	18.33	18.19
		25	12	20.79	20.73	20.67	18.32	18.31	18.27	20.30	20.30	20.29	18.33	18.36	18.20
		25	24	20.77	20.81	20.76	18.28	18.27	18.28	20.34	20.37	20.27	18.30	18.33	18.22
		50	0	20.74	20.67	20.64	18.26	18.19	18.24	20.26	20.21	20.29	18.26	18.25	18.24

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
				1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5
15.0	QPSK	1	0	25.63	25.69	25.68	23.05	**23.20**	23.11	25.07	**25.20**	25.09	23.15	**23.20**	23.03
		1	37	25.59	25.63	25.56	23.01	23.13	23.00	25.03	25.12	24.99	23.05	23.13	23.02
		1	74	**25.70**	**25.70**	25.68	23.07	23.13	23.04	25.12	25.10	25.07	23.05	23.15	23.01
		36	0	24.68	24.71	24.69	22.19	22.15	22.10	24.14	24.15	24.13	22.22	22.20	22.10
		36	16	24.78	24.66	24.65	22.16	22.14	22.10	24.23	24.13	24.20	22.25	22.21	22.13
		36	35	24.76	24.69	24.70	22.12	22.12	22.10	24.15	24.14	24.14	22.15	22.16	22.12
		75	0	24.74	24.66	24.64	22.14	22.11	22.05	24.16	24.10	24.15	22.17	22.17	22.03
	16QAM	1	0	24.75	**25.15**	24.57	22.54	22.59	22.27	**24.58**	24.57	24.23	22.58	22.62	22.17
		1	37	24.71	25.00	24.37	22.57	**22.66**	22.08	24.52	24.56	24.07	22.59	**22.64**	22.10
		1	74	24.79	25.05	24.50	22.55	22.63	22.11	**24.58**	**24.58**	24.13	22.55	22.56	22.10
		36	0	23.72	23.68	23.67	21.21	21.13	21.12	23.18	23.14	23.15	21.26	21.20	21.09
		36	16	23.80	23.64	23.66	21.20	21.13	21.10	23.24	23.11	23.19	21.25	21.22	21.10
		36	35	23.77	23.68	23.68	21.14	21.11	21.11	23.22	23.12	23.13	21.20	21.14	21.13
		75	0	23.77	23.65	23.69	21.17	21.08	21.10	23.21	23.08	23.20	21.20	21.17	21.07
	64QAM	1	0	23.61	**24.03**	23.78	21.28	**21.73**	21.41	23.31	23.71	23.44	21.40	**21.79**	21.37
		1	37	23.62	23.98	23.60	21.23	21.65	21.32	23.29	**23.72**	23.39	21.30	21.72	21.43
		1	74	23.74	24.01	23.76	21.32	**21.73**	21.36	23.34	23.68	23.44	21.32	21.70	21.39
		36	0	22.75	22.73	22.77	20.28	20.19	20.17	22.24	22.19	22.21	20.34	20.25	20.16
		36	16	22.81	22.71	22.72	20.26	20.14	20.14	22.28	22.17	22.27	20.31	20.25	20.18
		36	35	22.81	22.73	22.75	20.21	20.18	20.16	22.26	22.19	22.19	20.24	20.18	20.19
		75	0	22.76	22.69	22.70	20.18	20.12	20.10	22.23	22.14	22.17	20.22	20.19	20.06
	256QAM	1	0	20.30	20.89	21.07	17.89	18.53	18.67	19.95	20.49	**20.69**	18.01	18.54	18.65
		1	37	20.28	20.85	21.00	17.95	18.50	18.65	19.96	20.49	20.66	17.94	18.51	**18.70**
		1	74	20.35	20.86	**21.08**	17.94	18.51	**18.68**	20.01	20.45	20.67	17.96	18.50	18.65
		36	0	20.70	20.69	20.73	18.23	18.18	18.15	20.12	20.15	20.15	18.26	18.23	18.16
		36	16	20.76	20.69	20.69	18.18	18.18	18.09	20.23	20.13	20.22	18.25	18.24	18.12
		36	35	20.71	20.68	20.70	18.16	18.15	18.13	20.15	20.15	20.15	18.19	18.16	18.15
		75	0	20.74	20.65	20.70	18.16	18.15	18.11	20.19	20.12	20.18	18.20	18.17	18.13

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
				1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0
20.0	QPSK	1	0	25.52	**25.70**	25.64	23.12	23.13	**23.20**	25.13	25.18	25.15	**23.20**	23.17	23.07
		1	49	25.53	25.58	25.51	23.07	23.02	23.13	25.15	25.12	25.12	23.19	23.18	23.10
		1	99	25.65	25.64	25.65	23.18	23.09	23.14	**25.20**	25.14	25.13	23.16	23.16	23.08
		50	0	24.62	24.59	24.61	22.20	22.18	22.17	24.17	24.19	24.22	22.29	22.28	22.13
		50	24	24.71	24.57	24.66	22.19	22.15	22.12	24.28	24.19	24.20	22.29	22.25	22.16
		50	49	24.73	24.62	24.63	22.20	22.21	22.15	24.25	24.21	24.23	22.26	22.24	22.19
		100	0	24.68	24.58	24.68	22.21	22.13	22.22	24.25	24.18	24.22	22.28	22.24	22.15
	16QAM	1	0	24.81	24.70	**24.88**	22.53	**22.77**	22.61	24.60	24.62	24.72	22.61	22.58	22.64
		1	49	24.84	24.57	24.77	22.52	22.66	22.48	24.52	24.58	24.69	22.58	22.57	**22.71**
		1	99	24.85	24.64	24.84	22.56	22.67	22.53	**24.84**	24.58	24.66	22.62	22.57	22.62
		50	0	23.62	23.56	23.64	21.19	21.21	21.21	23.23	23.20	23.25	21.34	21.25	21.19
		50	24	23.75	23.53	23.70	21.18	21.20	21.16	23.28	23.17	23.22	21.34	21.26	21.19
		50	49	23.74	23.57	23.62	21.20	21.23	21.18	23.28	23.18	23.25	21.28	21.20	21.22
		100	0	23.71	23.55	23.71	21.21	21.18	21.22	23.27	23.19	23.21	21.28	21.29	21.19
	64QAM	1	0	23.89	23.57	23.80	21.39	21.55	**21.83**	23.85	23.47	23.57	**21.89**	21.52	21.50
		1	49	24.01	23.47	23.69	21.41	21.51	**21.83**	23.85	23.45	23.57	21.87	21.46	21.56
		1	99	**24.04**	23.55	23.75	21.49	21.55	21.80	**23.89**	23.42	23.57	21.88	21.44	21.54
		50	0	22.62	22.66	22.74	20.25	20.29	20.20	22.26	22.23	22.29	20.34	20.28	20.21
		50	24	22.74	22.60	22.77	20.26	20.25	20.19	22.34	22.23	22.28	20.36	20.31	20.27
		50	49	22.74	22.64	22.71	20.26	20.30	20.21	22.32	22.27	22.35	20.31	20.28	20.29
		100	0	22.68	22.63	22.73	20.26	20.19	20.24	22.26	22.23	22.25	20.29	20.27	20.21
	256QAM	1	0	20.60	20.48	20.60	18.12	**18.42**	18.31	20.32	20.16	20.45	18.34	18.23	**18.39**
		1	49	20.59	20.41	20.58	18.13	18.37	18.32	20.33	20.19	**20.47**	18.38	18.21	18.38
		1	99	20.66	20.43	20.52	18.15	18.35	18.27	20.34	20.10	20.39	18.34	18.19	18.31
		50	0	20.64	20.65	20.63	18.29	18.22	18.19	20.21	20.26	20.23	18.34	18.31	18.17
		50	24	20.69	20.60	20.68	18.30	18.19	18.17	20.27	20.22	20.23	18.35	18.31	18.20
		50	49	20.68	20.60	20.60	18.26	18.22	18.18	20.26	20.26	20.21	18.27	18.27	18.21
		100	0	**20.70**	20.59	20.65	18.27	18.16	18.23	20.25	20.18	20.17	18.30	18.29	18.15

5G NR n25

Test Engineer ID:	19171	Test Date:	5/17/2021

OUTPUT POWER FOR 5G NR n25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				370500	376500	382500	370500	376500	382500	370500	376500	382500	370500	376500	382500
				1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
5.0	BPSK	1	0	25.03	25.04	24.74	22.26	22.35	22.46	24.59	24.68	24.45	22.56	21.89	22.07
		1	1	25.50	25.46	25.41	22.91	23.01	22.99	24.87	24.96	24.95	22.76	22.39	22.72
		1	23	25.55	25.33	25.44	23.11	**23.20**	**23.20**	24.93	24.81	**25.16**	**23.20**	22.44	22.76
		1	24	25.21	25.23	24.90	22.61	22.70	22.56	24.45	24.41	24.33	22.60	22.28	22.06
		12	6	25.51	25.48	**25.70**	23.00	22.82	22.89	24.68	24.72	24.72	22.60	22.43	22.66
		25	0	24.90	24.93	24.87	22.37	22.23	22.37	24.16	24.07	24.16	22.02	-2.78	21.60
	QPSK	1	0	25.45	24.52	24.34	22.21	21.84	22.12	24.00	23.92	23.66	21.45	22.30	21.85
		1	1	25.47	**25.54**	25.43	22.79	22.98	23.11	24.89	24.96	24.93	22.18	22.35	22.38
		1	23	25.40	25.45	24.25	22.91	23.16	**23.19**	**25.20**	24.89	25.17	**23.16**	22.76	22.50
		1	24	24.70	24.60	24.51	22.02	22.08	22.20	23.91	23.76	23.92	21.94	21.58	21.47
		12	6	25.49	25.51	25.50	22.82	22.88	22.97	24.70	24.70	24.69	22.77	22.85	22.60
		25	0	24.53	24.47	24.45	21.96	21.76	21.90	23.66	23.57	23.69	21.50	21.70	21.50
	16QAM	1	0	23.20	23.10	23.01	21.06	20.88	20.97	23.11	23.15	22.96	21.05	21.79	20.44
		1	1	24.32	24.20	24.13	21.97	21.99	22.01	23.92	24.04	23.78	21.40	21.05	21.65
		1	23	24.40	**24.44**	24.30	21.74	**22.12**	21.88	24.08	23.93	**24.20**	**22.37**	21.98	21.46
		1	24	23.24	23.32	23.27	20.77	21.03	20.93	22.97	23.12	23.02	21.17	20.93	20.67
		12	6	24.37	24.40	24.41	21.80	21.76	21.92	23.70	23.50	23.62	21.78	21.68	21.48
		25	0	23.50	23.36	23.32	20.95	20.77	20.93	22.64	22.60	22.67	20.65	20.69	20.54
	64QAM	1	0	22.96	22.99	22.94	20.59	20.63	20.65	22.34	22.15	22.04	20.70	20.28	20.10
		1	1	23.01	23.01	22.94	20.53	20.50	20.29	22.04	22.02	22.19	20.40	20.77	20.18
		1	23	23.12	22.92	23.06	**20.79**	20.30	20.58	22.21	21.96	22.25	**20.88**	20.75	20.65
		1	24	23.10	22.89	**23.13**	20.49	20.50	20.56	**22.78**	22.15	22.24	20.16	20.57	20.41
		12	6	22.94	22.90	23.03	20.41	20.19	20.39	22.05	22.10	22.15	20.20	20.39	20.18
		25	0	23.04	22.91	22.85	20.31	20.19	20.40	22.19	22.10	22.20	20.08	20.24	20.05
	256QAM	1	0	21.23	21.14	21.10	**18.92**	18.81	18.66	20.34	20.34	20.34	**18.11**	17.68	17.96
		1	1	**23.13**	21.02	20.61	18.79	18.45	18.66	20.32	20.34	20.04	17.67	17.53	18.09
		1	23	21.43	21.34	21.15	18.72	18.59	18.66	20.24	**20.50**	20.35	17.90	17.48	17.83
		1	24	21.43	21.44	21.21	18.82	18.71	18.75	20.27	20.37	20.48	18.08	17.82	17.78
		12	6	20.97	21.05	21.01	18.50	18.44	18.53	20.15	20.17	20.16	18.06	17.80	18.08
		25	0	20.97	20.96	20.87	18.40	18.30	18.37	20.21	20.13	20.17	18.04	18.09	18.07

OUTPUT POWER FOR 5G NR n25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				371000	376500	382000	371000	376500	382000	371000	376500	382000	371000	376500	382000
				1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
10.0	BPSK	1	0	25.02	24.91	24.50	22.46	22.53	22.29	24.55	24.64	24.39	22.03	21.76	21.83
		1	1	25.67	25.50	25.37	23.04	23.07	22.91	25.05	25.06	**25.20**	22.42	22.63	22.32
		1	50	**25.70**	25.41	25.39	23.12	23.08	**23.20**	25.11	24.83	24.98	22.89	**23.20**	22.29
		1	51	24.95	24.70	25.33	22.36	22.28	22.55	24.74	24.59	24.53	22.28	21.88	21.82
		25	12	25.35	25.41	25.38	22.86	22.76	22.76	24.77	24.69	24.65	22.48	22.28	22.34
		50	0	24.90	24.90	24.64	22.34	22.28	20.71	24.17	24.14	24.07	21.78	21.20	19.38
	QPSK	1	0	24.48	24.38	24.13	21.90	22.04	21.88	23.94	23.88	23.92	21.47	21.38	21.38
		1	1	**25.45**	25.26	25.33	22.98	**23.05**	22.88	**25.17**	24.97	24.99	22.54	22.81	22.39
		1	50	25.33	25.23	25.20	22.95	22.72	22.75	24.90	25.02	24.91	22.14	**22.93**	22.43
		1	51	24.34	24.44	24.50	21.78	21.75	22.02	24.10	23.79	23.95	21.43	21.73	21.28
		25	12	25.37	25.35	25.28	22.74	22.82	22.86	24.84	24.67	24.68	22.11	22.59	22.16
		50	0	24.39	24.32	24.17	21.84	21.80	21.82	23.67	23.62	23.58	21.30	21.31	21.32
	16QAM	1	0	23.08	23.30	22.87	20.99	20.57	20.83	23.20	23.01	23.13	20.44	20.58	20.58
		1	1	24.32	24.17	24.27	**22.34**	21.70	22.01	24.07	23.90	24.06	21.29	21.58	**21.71**
		1	50	24.21	24.20	24.28	21.91	21.87	21.69	24.03	24.15	**24.25**	21.69	21.52	21.19
		1	51	23.26	23.26	23.21	20.89	20.54	21.02	23.00	23.20	23.18	20.81	20.37	20.31
		25	12	24.33	**24.37**	24.27	21.80	21.77	21.81	23.71	23.71	23.66	21.23	21.47	21.32
		50	0	23.38	23.33	23.20	20.82	20.80	20.82	22.72	22.61	22.67	20.43	20.52	20.35
	64QAM	1	0	23.04	**23.15**	22.86	20.40	20.23	20.41	22.49	22.21	22.30	20.57	20.16	19.59
		1	1	23.12	22.86	22.92	20.55	20.64	20.66	22.18	22.14	22.34	20.08	20.33	20.10
		1	50	22.89	21.89	22.73	20.52	20.55	20.41	22.33	22.21	22.35	20.62	20.44	19.84
		1	51	23.00	22.88	22.91	20.45	20.39	**20.77**	22.40	**23.07**	22.28	20.57	**20.71**	19.92
		25	12	22.96	22.78	22.91	20.25	20.29	20.25	22.15	22.23	22.14	20.04	19.96	19.94
		50	0	22.91	22.86	22.70	20.31	20.26	20.27	22.19	22.12	22.16	20.09	19.99	19.84
	256QAM	1	0	20.70	20.95	21.07	18.79	18.49	18.38	20.43	20.59	20.46	17.38	17.76	17.67
		1	1	**21.32**	21.12	21.01	**19.01**	18.72	18.38	20.70	20.37	20.49	17.64	17.90	17.44
		1	50	21.09	20.81	21.28	18.84	18.40	18.53	20.31	20.41	20.53	17.85	17.88	17.70
		1	51	21.29	21.21	20.89	18.57	18.50	18.45	20.56	20.35	**20.83**	17.79	**18.62**	18.00
		25	12	20.84	20.91	20.80	18.30	18.32	18.30	20.23	20.17	20.32	17.99	17.82	17.84
		50	0	20.88	20.89	20.74	18.33	18.31	18.33	20.14	20.22	20.19	18.05	18.05	17.84

OUTPUT POWER FOR 5G NR n25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				371500	376500	381500	371500	376500	381500	371500	376500	381500	371500	376500	381500
				1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5
15.0	BPSK	1	0	25.15	25.02	25.02	22.48	22.44	22.44	24.48	24.63	24.43	22.96	22.60	22.51
		1	1	25.57	**25.67**	25.63	**23.20**	22.95	22.88	25.11	25.09	25.04	**23.16**	23.04	22.96
		1	77	25.51	25.44	25.48	22.89	22.77	22.89	**25.20**	25.03	24.78	23.02	22.42	23.00
		1	78	25.08	24.78	24.98	22.36	22.17	22.65	24.54	24.62	24.50	22.68	22.91	22.58
		36	18	25.48	25.36	25.25	22.64	22.57	22.60	24.77	24.71	24.69	22.89	23.11	22.72
		75	0	24.98	24.95	24.98	22.04	22.11	22.12	24.25	24.18	24.17	22.34	22.11	19.49
	QPSK	1	0	24.56	24.54	24.56	21.86	21.76	21.79	23.84	24.05	24.02	22.15	22.24	21.77
		1	1	**25.70**	25.58	25.66	**23.01**	23.00	22.63	**25.14**	24.85	25.02	22.90	23.14	22.53
		1	77	25.54	25.48	25.56	22.61	22.74	22.91	25.00	24.99	24.78	22.93	**23.20**	22.91
		1	78	24.56	24.36	24.37	21.89	21.82	21.97	24.31	23.92	24.09	22.08	21.23	21.72
		36	18	25.47	25.44	25.45	22.72	22.59	22.68	24.85	24.75	24.60	22.60	23.00	22.82
		75	0	24.45	24.50	24.48	21.62	21.60	21.65	24.81	23.70	23.62	21.68	21.87	21.71
	16QAM	1	0	23.48	23.57	23.36	20.83	20.55	20.34	23.05	23.31	23.36	20.80	21.15	20.92
		1	1	**24.66**	24.58	24.54	22.04	21.50	21.71	24.13	24.26	24.17	21.96	**22.53**	22.10
		1	77	24.39	24.59	24.14	21.90	21.99	**22.11**	**24.42**	24.29	24.09	21.75	22.05	21.44
		1	78	23.37	23.31	23.18	20.99	20.92	20.91	23.22	23.08	22.84	21.28	21.19	20.61
		36	18	24.55	24.43	24.47	21.66	21.71	21.65	23.70	23.67	23.73	21.88	22.02	21.76
		75	0	23.48	23.56	23.44	20.63	20.58	20.60	22.79	22.71	22.58	20.84	20.79	20.21
	64QAM	1	0	23.08	22.99	23.29	**20.37**	20.31	20.31	22.56	22.41	22.61	21.13	**21.25**	20.49
		1	1	22.98	**23.33**	22.96	20.32	20.15	20.34	22.56	22.60	22.46	20.52	20.52	20.89
		1	77	23.13	22.94	23.26	20.35	20.33	20.27	**22.62**	22.30	22.37	21.00	21.16	20.23
		1	78	23.27	23.02	22.96	20.23	20.12	20.12	22.45	22.54	22.17	21.01	20.01	20.93
		36	18	22.96	22.85	22.87	20.12	20.00	20.02	22.25	22.19	22.19	20.39	20.44	20.29
		75	0	22.95	22.96	22.95	20.12	19.99	20.14	22.30	22.20	22.08	20.30	20.29	20.15
	256QAM	1	0	**21.69**	21.23	21.45	18.30	18.31	18.50	20.70	**21.17**	20.51	18.01	18.26	17.89
		1	1	21.31	21.03	20.89	18.48	18.51	18.72	20.78	20.32	20.32	18.50	17.04	17.86
		1	77	21.25	21.38	21.47	18.57	18.45	18.31	20.65	20.71	20.63	18.29	17.62	18.10
		1	78	21.33	21.38	20.77	18.60	18.49	**18.81**	20.74	20.61	20.56	18.48	18.21	18.06
		36	18	20.98	20.99	20.87	18.18	17.94	18.14	20.36	20.26	20.18	18.46	**18.55**	18.32
		75	0	21.04	21.02	20.93	18.07	18.01	18.11	20.28	20.23	20.11	18.35	18.39	18.23

OUTPUT POWER FOR 5G NR n25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				372000	376500	381000	372000	376500	381000	372000	376500	381000	372000	376500	381000
				1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0
20.0	BPSK	1	0	25.03	24.92	25.15	22.37	22.44	22.43	24.60	24.62	24.53	22.54	22.70	22.60
		1	1	25.47	25.53	25.49	**23.20**	22.96	22.98	**25.20**	25.19	24.87	**23.20**	23.10	23.15
		1	104	25.50	**25.60**	25.34	23.09	23.05	23.03	25.09	24.92	25.00	23.15	22.91	22.45
		1	105	25.10	24.93	24.90	22.53	22.33	22.71	24.57	24.52	24.14	22.76	22.40	22.25
		50	25	25.55	25.44	25.42	22.85	22.82	22.69	24.87	24.75	24.78	22.99	21.87	20.78
		100	0	24.91	24.94	24.90	22.27	22.24	22.26	24.30	24.25	24.31	22.40	21.58	20.38
	QPSK	1	0	24.60	24.54	24.64	22.03	22.04	22.10	24.23	24.34	24.04	22.15	21.98	21.98
		1	1	**25.70**	25.47	25.63	**23.16**	22.97	22.93	**25.15**	25.13	24.99	**23.12**	22.49	22.60
		1	104	25.61	25.44	24.93	22.97	22.93	22.97	24.96	24.98	25.06	22.84	22.96	22.49
		1	105	24.60	24.43	24.20	21.90	21.90	22.12	23.95	24.08	24.07	22.14	21.28	21.41
		50	25	25.54	25.52	25.37	22.82	22.81	22.75	24.86	24.76	24.73	22.99	22.89	22.85
		100	0	24.43	24.43	24.41	21.76	21.76	21.72	23.88	23.76	23.81	21.87	22.11	21.82
	16QAM	1	0	23.50	23.39	23.24	21.14	21.11	20.80	23.15	23.44	23.10	21.49	21.11	20.79
		1	1	24.51	24.41	**24.62**	21.96	22.17	21.77	24.19	24.40	24.22	22.20	21.90	21.46
		1	104	23.26	24.42	23.89	22.16	**22.20**	21.79	24.40	23.98	24.22	21.87	21.87	21.87
		1	105	23.64	23.14	23.08	21.11	20.98	20.98	23.32	23.17	23.59	20.80	21.01	**22.46**
		50	25	24.52	24.44	24.36	21.83	21.87	21.77	23.85	23.87	**24.67**	21.93	21.97	21.86
		100	0	23.55	23.44	23.45	20.75	20.77	20.76	22.82	22.80	22.77	20.90	20.99	20.77
	64QAM	1	0	23.03	23.28	22.92	20.52	20.26	20.67	22.40	22.53	22.17	20.86	21.04	20.47
		1	1	23.14	**23.35**	23.09	**20.83**	20.73	20.45	22.41	**22.78**	22.64	20.72	21.10	20.99
		1	104	23.25	22.83	22.80	20.52	20.43	20.44	22.59	22.33	22.26	20.46	**21.42**	20.60
		1	105	23.19	22.96	22.50	20.47	20.38	20.78	22.31	22.43	22.55	21.10	20.44	21.35
		50	25	23.01	22.94	22.84	20.30	20.37	20.24	22.42	22.30	22.33	20.39	20.71	20.23
		100	0	22.94	22.94	22.94	20.17	20.25	20.26	22.33	22.29	22.28	20.42	20.40	20.29
	256QAM	1	0	21.24	21.30	21.09	**19.16**	18.61	18.51	**20.82**	20.56	20.50	18.52	18.31	18.39
		1	1	20.90	20.89	21.24	18.91	18.84	18.47	20.62	20.66	20.68	18.24	18.37	17.90
		1	104	21.57	21.05	21.06	18.75	18.79	18.35	20.52	20.63	20.64	18.07	**18.89**	18.50
		1	105	**21.64**	21.34	20.91	18.47	18.85	18.66	20.49	20.69	20.55	18.34	17.23	17.96
		50	25	20.96	20.92	20.89	18.35	18.26	18.26	20.39	20.34	20.26	18.49	18.35	18.30
		100	0	21.02	21.00	20.96	18.34	18.37	18.27	20.42	20.39	20.32	18.36	18.45	18.39

OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				372500	376500	380500	372500	376500	380500	372500	376500	380500	372500	376500	380500
				1862.5	1882.5	1902.5	1862.5	1882.5	1902.5	1862.5	1882.5	1902.5	1862.5	1882.5	1902.5
25.0	BPSK	1	0	22.86	22.94	23.04	21.10	21.16	21.06	22.39	22.53	22.45	21.06	21.07	21.16
		1	1	23.29	**23.70**	23.64	21.43	21.37	21.53	23.03	22.99	23.10	21.61	**21.70**	21.60
		1	132	23.53	23.34	23.52	21.63	**21.66**	21.63	22.96	22.88	**23.12**	21.65	21.66	21.65
		1	131	23.36	22.85	22.77	21.16	21.17	21.11	22.51	22.51	22.55	21.04	21.07	21.11
		64	32	23.23	23.20	23.17	21.23	21.26	21.29	22.71	22.78	22.91	21.34	21.40	21.37
		128	0	22.70	22.69	22.69	20.83	20.87	20.86	22.24	22.29	22.30	20.83	20.90	20.93
	QPSK	1	0	22.47	22.82	22.19	20.46	20.78	20.53	22.20	22.04	22.09	20.64	20.73	20.68
		1	1	**23.67**	23.49	23.33	21.41	21.36	21.51	23.03	23.04	23.00	21.55	**21.62**	**21.62**
		1	132	23.44	23.51	23.48	**21.70**	21.68	21.55	22.98	22.93	**23.20**	21.61	21.58	21.59
		1	131	22.58	22.74	22.27	20.60	20.62	20.59	22.08	22.07	22.02	20.64	20.63	20.60
		64	32	23.26	23.17	23.22	21.25	21.32	21.29	22.75	22.74	22.84	21.33	21.39	21.39
		128	0	22.31	22.21	22.20	20.34	20.37	20.35	21.76	21.82	21.84	20.32	20.42	20.46
	16QAM	1	0	21.60	21.87	21.77	19.60	19.81	19.79	21.26	20.99	21.26	19.70	19.62	19.68
		1	1	22.60	22.47	22.93	20.81	20.79	20.80	21.82	22.07	**22.25**	**20.71**	20.61	20.62
		1	132	**22.95**	22.76	22.41	20.74	20.79	**20.83**	21.93	21.96	22.20	20.64	20.62	20.57
		1	131	21.47	21.27	21.63	19.73	19.77	19.68	21.33	21.14	21.08	19.76	19.74	19.76
		64	32	22.22	22.22	22.28	20.30	20.35	20.27	21.75	21.82	21.88	20.30	20.37	20.38
		128	0	21.27	21.20	21.27	19.38	19.41	19.38	20.79	20.78	20.85	19.38	19.48	19.48
	64QAM	1	0	21.02	21.30	20.84	18.76	18.90	18.85	20.23	20.28	20.39	19.08	19.05	19.08
		1	1	20.87	20.88	20.91	18.98	18.94	18.94	20.33	20.35	**20.41**	19.11	19.16	**19.35**
		1	132	**21.39**	21.27	20.61	18.93	**19.00**	18.89	20.35	20.29	20.34	19.07	18.96	18.95
		1	131	21.08	21.14	20.92	18.81	18.86	18.87	20.39	20.21	20.29	19.18	19.11	19.06
		64	32	20.71	20.73	20.70	18.84	18.87	18.84	20.20	20.25	20.37	18.82	18.86	18.90
		128	0	20.74	20.73	20.66	18.84	18.86	18.89	20.23	20.30	20.37	18.77	18.86	18.82
	256QAM	1	0	**19.39**	19.26	19.21	16.86	**17.10**	16.90	18.21	18.30	18.33	**17.06**	**17.06**	16.91
		1	1	18.57	19.06	18.97	16.81	16.98	16.82	18.24	18.29	18.31	16.97	16.88	16.86
		1	132	18.93	19.02	18.60	17.05	16.92	17.03	**18.39**	18.09	18.37	17.03	17.03	16.98
		1	131	19.31	19.08	18.79	16.87	17.01	16.93	18.25	18.17	18.36	17.05	16.97	16.99
		64	32	18.64	18.66	18.62	16.84	16.90	16.86	18.26	18.29	18.35	16.95	17.01	17.02
		128	0	18.69	18.72	18.74	16.82	16.88	16.86	18.24	18.31	18.32	16.94	17.01	17.04

OUTPUT POWER FOR 5G NR n25 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				373000	376500	380000	373000	376500	380000	373000	376500	380000	373000	376500	380000
				1865.0	1882.5	1900.0	1865.0	1882.5	1900.0	1865.0	1882.5	1900.0	1865.0	1882.5	1900.0
30.0	BPSK	1	0	22.87	22.98	22.78	21.00	21.01	21.00	22.51	22.53	22.53	21.02	20.95	20.98
		1	1	23.35	23.47	23.18	21.53	21.47	21.59	23.08	22.92	23.13	21.43	21.47	21.52
		1	158	23.40	**23.61**	23.29	21.58	**21.64**	21.60	23.01	23.01	**23.20**	**21.70**	21.55	21.52
		1	159	22.96	22.89	22.70	21.21	21.11	21.07	22.51	22.53	22.74	21.10	20.97	21.04
		80	40	23.20	23.16	23.19	21.20	21.27	21.30	22.78	22.79	22.84	21.30	21.29	21.23
		160	0	22.65	22.65	22.71	20.89	20.85	20.87	22.29	22.32	22.36	20.75	20.79	20.84
	QPSK	1	0	22.64	22.44	22.51	20.51	20.60	20.55	22.08	22.07	22.07	20.66	20.56	20.57
		1	1	23.51	23.61	23.47	21.50	21.33	21.51	23.05	22.92	**23.14**	21.43	21.49	21.51
		1	158	23.36	**23.70**	23.39	21.58	**21.70**	21.53	23.05	23.03	23.10	**21.63**	21.49	21.57
		1	159	22.51	22.21	22.22	20.65	20.68	20.60	22.01	22.14	22.16	20.58	20.46	20.77
		80	40	23.16	23.12	23.13	21.22	21.29	21.29	22.81	22.80	22.81	21.20	21.35	21.22
		160	0	22.21	22.18	22.22	20.45	20.37	20.36	21.72	21.78	21.87	20.24	20.36	20.33
	16QAM	1	0	21.83	21.61	21.44	19.61	19.76	19.82	21.07	21.06	21.03	19.63	19.56	19.54
		1	1	22.29	22.58	**22.74**	20.76	20.77	20.83	22.13	22.09	22.11	**20.70**	20.56	20.56
		1	158	22.46	22.48	22.46	20.61	20.81	**20.87**	22.12	22.22	**22.26**	20.58	20.48	20.47
		1	159	21.55	21.49	21.22	19.81	19.78	19.65	21.26	21.07	21.27	19.60	19.57	19.65
		80	40	22.07	22.12	22.22	20.26	20.26	20.22	21.73	21.78	21.80	20.27	20.31	20.26
		160	0	21.26	21.21	21.16	19.39	19.41	19.46	20.77	20.84	20.87	19.31	19.40	19.36
	64QAM	1	0	20.83	20.53	20.84	18.74	18.78	18.81	20.28	20.29	20.25	19.08	18.86	18.95
		1	1	20.73	20.88	20.75	18.82	18.87	18.90	20.28	20.22	20.30	18.96	18.94	19.12
		1	158	20.86	21.02	20.94	18.94	**19.07**	18.93	**20.49**	20.43	20.28	19.08	18.88	18.95
		1	159	**21.09**	20.86	20.82	18.98	18.82	18.88	20.33	20.25	20.18	**19.16**	18.95	18.96
		80	40	20.72	20.64	20.70	18.85	18.80	18.88	20.27	20.26	20.27	18.73	18.78	18.67
		160	0	20.78	20.73	20.65	18.93	18.86	18.92	20.27	20.37	20.37	18.77	18.74	18.84
	256QAM	1	0	19.06	19.04	19.08	16.81	**17.03**	16.79	18.31	18.31	18.21	16.86	16.79	16.83
		1	1	**19.20**	19.10	18.87	16.81	16.94	16.73	18.16	18.32	18.37	16.95	16.83	16.95
		1	158	18.95	19.17	18.74	16.84	16.82	16.92	18.36	**18.52**	18.29	16.86	**17.07**	16.97
		1	159	19.05	19.03	19.06	16.87	16.82	16.97	18.33	18.35	18.23	16.85	16.97	17.00
		80	40	18.60	18.65	18.68	16.74	16.89	16.97	18.28	18.27	18.28	16.83	16.84	16.83
		160	0	18.69	18.76	18.73	16.80	16.86	16.88	18.27	18.32	18.28	16.82	16.91	16.88

OUTPUT POWER FOR 5G NR n25 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				374000	376500	379000	374000	376500	379000	374000	376500	379000	374000	376500	379000
				1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0
40.0	BPSK	1	0	22.91	23.03	23.04	21.10	21.04	21.14	22.59	22.60	22.63	21.08	21.00	21.16
		1	1	23.45	**23.70**	23.16	21.42	21.45	21.50	22.93	23.11	23.02	21.52	21.52	21.61
		1	214	23.56	23.57	23.29	**21.59**	**21.59**	21.58	23.15	**23.20**	23.12	**21.70**	21.65	21.67
		1	215	23.16	23.01	22.90	21.05	21.12	21.20	22.59	22.55	22.71	21.08	21.12	21.07
		108	54	23.17	23.07	23.07	21.23	21.17	21.26	22.77	22.89	22.87	21.23	21.21	21.26
		216	0	22.59	22.80	22.65	20.78	20.76	20.80	22.35	22.44	22.49	20.81	20.84	20.92
	QPSK	1	0	22.51	22.19	22.60	20.46	20.53	20.55	22.13	22.25	22.09	20.63	20.62	20.65
		1	1	**23.60**	23.50	23.37	21.41	21.31	21.48	23.02	23.08	22.99	21.57	21.61	21.65
		1	214	23.45	23.37	23.52	21.50	**21.70**	21.48	23.03	**23.18**	23.16	21.67	**21.68**	21.62
		1	215	22.48	22.67	22.62	20.41	20.76	20.64	22.10	22.26	22.22	20.67	20.73	20.68
		108	54	23.15	23.13	23.17	21.23	21.22	21.30	22.84	22.86	22.92	21.21	21.23	21.25
		216	0	22.21	22.31	22.26	20.32	20.38	20.33	21.80	21.98	21.98	20.30	20.38	20.42
	16QAM	1	0	21.77	21.68	21.73	19.64	19.54	19.67	21.17	21.18	21.14	19.70	19.65	19.65
		1	1	**22.62**	22.57	22.55	20.76	20.78	20.77	22.15	22.20	22.19	20.65	20.66	20.68
		1	214	22.60	22.19	22.57	20.69	**20.84**	20.79	22.15	22.31	**22.35**	**20.72**	20.62	20.67
		1	215	21.44	21.45	21.58	19.73	19.69	19.67	21.28	21.22	21.22	19.74	19.87	19.69
		108	54	22.10	22.17	22.21	20.17	20.21	20.27	21.80	21.87	21.85	20.36	20.25	20.30
		216	0	21.22	21.25	21.27	19.34	19.34	19.39	20.87	20.96	20.98	19.32	19.35	19.37
	64QAM	1	0	**21.44**	20.83	21.01	18.73	18.69	18.87	20.26	20.24	20.40	19.02	18.98	18.84
		1	1	21.39	21.41	20.89	18.85	18.80	18.86	20.40	20.27	20.41	19.03	18.98	19.08
		1	214	20.84	20.91	20.61	18.88	**19.11**	18.91	20.33	**20.51**	20.33	**19.20**	19.05	19.03
		1	215	20.86	20.88	20.59	18.84	18.76	18.89	20.44	20.35	20.40	19.09	19.18	19.11
		108	54	20.66	20.72	20.72	18.76	18.79	18.84	20.32	20.27	20.39	18.81	18.82	18.85
		216	0	20.76	20.79	20.63	18.88	18.84	18.86	20.37	20.44	20.47	18.87	18.81	18.93
	256QAM	1	0	18.95	18.60	19.01	16.88	16.71	16.84	**18.53**	18.34	**18.53**	16.97	**17.08**	16.90
		1	1	19.00	**19.57**	18.45	16.87	16.79	16.79	18.21	18.30	18.38	16.91	16.82	**17.08**
		1	214	19.25	19.11	18.62	16.87	16.70	16.82	18.35	18.43	18.35	16.86	16.83	17.06
		1	215	19.10	19.06	19.04	16.77	16.70	**16.90**	18.39	18.17	18.36	16.94	17.05	17.01
		108	54	18.71	18.71	18.67	16.72	16.85	16.80	18.29	18.26	18.33	16.89	16.92	16.89
		216	0	18.72	18.77	18.78	16.74	16.82	16.78	18.35	18.43	18.44	16.85	17.03	16.99

8.8. LTE BAND 26 (Part 90S)

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				26697	26740	26783	26697	26740	26783
				814.7 MHz	819.0 MHz	823.3 MHz	814.7 MHz	819.0 MHz	823.3 MHz
1.4	QPSK	1	0	25.68	25.58	25.63	24.57	**24.70**	24.60
		1	2	**25.70**	25.64	**25.70**	24.57	24.66	24.63
		1	5	25.63	25.56	25.64	24.56	24.61	24.58
		3	0	25.66	25.57	25.55	24.58	24.55	24.53
		3	1	25.69	25.61	25.61	24.58	24.67	24.58
		3	2	25.69	25.54	25.50	24.60	24.62	24.57
		6	0	24.66	24.70	24.74	23.61	23.71	23.63
	16QAM	1	0	24.73	24.50	24.48	23.72	23.82	24.03
		1	2	**24.90**	24.65	24.53	23.80	23.82	**24.17**
		1	5	24.69	24.48	24.52	23.65	23.79	24.03
		3	0	24.82	24.67	24.64	23.90	23.81	23.98
		3	1	24.87	24.77	24.67	23.99	23.84	23.95
		3	2	24.85	24.78	24.65	23.91	23.79	23.90
		6	0	23.60	23.76	23.79	22.86	22.87	22.60
	64QAM	1	0	23.54	23.75	23.87	22.96	23.14	22.69
		1	2	23.59	23.80	**24.03**	23.05	**23.25**	22.82
		1	5	23.51	23.78	23.93	23.06	23.12	22.70
		3	0	23.78	23.51	23.99	22.63	22.96	22.82
		3	1	23.75	23.58	23.91	22.74	23.01	22.93
		3	2	23.71	23.52	23.85	22.67	23.09	22.91
		6	0	22.96	22.76	22.64	21.81	21.66	22.02
	256QAM	1	0	20.32	20.35	20.63	19.54	19.66	19.35
		1	2	20.40	20.42	20.71	19.59	19.72	19.43
		1	5	20.31	20.37	20.61	19.51	19.61	19.39
		3	0	20.71	20.70	20.68	19.75	19.73	19.84
		3	1	20.74	**20.76**	20.73	**19.98**	19.83	19.85
		3	2	20.73	20.75	20.70	19.93	19.78	19.78
		6	0	20.68	20.72	20.71	19.78	19.72	19.67

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				26705	26740	26775	26705	26740	26775
				815.5 MHz	819.0 MHz	822.5 MHz	815.5 MHz	819.0 MHz	822.5 MHz
3.0	QPSK	1	0	**25.70**	25.60	25.57	24.66	24.64	**24.70**
		1	7	25.62	25.56	25.61	24.58	24.57	24.67
		1	14	25.58	25.54	25.58	24.58	24.63	24.69
		8	0	24.70	24.54	24.54	23.74	23.81	23.70
		8	4	24.62	24.65	24.65	23.80	23.76	23.76
		8	7	24.62	24.56	24.57	23.73	23.69	23.75
		15	0	24.65	24.69	24.70	23.81	23.76	23.74
	16QAM	1	0	24.79	24.56	24.46	23.95	23.68	**24.18**
		1	7	**24.80**	24.48	24.50	23.85	23.74	24.15
		1	14	24.75	24.50	24.46	23.76	23.66	**24.18**
		8	0	23.78	23.63	23.69	22.83	22.89	22.85
		8	4	23.73	23.73	23.71	22.87	22.85	22.87
		8	7	23.74	23.65	23.66	22.83	22.84	22.81
		15	0	23.73	23.65	23.72	22.81	22.81	22.82
	64QAM	1	0	23.55	23.61	23.60	**23.04**	22.99	22.80
		1	7	23.55	23.50	23.60	**23.04**	22.99	22.94
		1	14	23.53	**23.65**	23.62	22.93	22.96	22.88
		8	0	22.75	22.60	22.73	21.76	21.92	21.80
		8	4	22.77	22.61	22.75	21.78	21.87	21.88
		8	7	22.75	22.53	22.78	21.72	21.90	21.81
		15	0	22.79	22.71	22.68	21.90	21.77	21.87
	256QAM	1	0	20.30	20.45	**21.06**	19.59	20.33	19.54
		1	7	20.23	20.49	21.02	19.63	**20.38**	19.51
		1	14	20.21	20.37	21.02	19.56	20.26	19.47
		8	0	20.64	20.73	20.67	19.86	19.85	19.66
		8	4	20.60	20.64	20.71	19.72	19.86	19.74
		8	7	20.62	20.69	20.72	19.88	19.80	19.64
		15	0	20.80	20.69	20.70	19.83	19.82	19.81

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				26715	26740	26765	26715	26740	26765
				816.5 MHz	819.0 MHz	821.5 MHz	816.5 MHz	819.0 MHz	821.5 MHz
5.0	QPSK	1	0	25.57	25.65	**25.70**	**24.70**	24.68	24.54
		1	12	25.44	25.58	**25.70**	24.58	24.57	24.53
		1	24	25.45	25.58	25.62	24.49	24.63	24.47
		12	0	24.58	24.52	24.48	23.55	23.58	23.61
		12	6	24.59	24.57	24.60	23.63	23.66	23.63
		12	11	24.54	24.49	24.50	23.57	23.61	23.58
		25	0	24.58	24.59	24.58	23.55	23.62	23.60
	16QAM	1	0	**24.85**	24.43	24.50	23.78	23.74	**24.09**
		1	12	24.76	24.51	24.49	23.78	23.71	24.06
		1	24	24.70	24.43	24.46	23.58	23.70	24.03
		12	0	23.67	23.54	23.55	22.65	22.68	22.71
		12	6	23.72	23.62	23.62	22.80	22.78	22.82
		12	11	23.68	23.53	23.59	22.65	22.67	22.79
		25	0	23.66	23.54	23.60	22.57	22.63	22.68
	64QAM	1	0	23.73	23.69	23.15	22.86	22.62	22.83
		1	12	**23.75**	23.60	23.09	22.91	22.61	**22.93**
		1	24	23.59	23.58	23.14	22.82	22.58	22.89
		12	0	22.48	22.63	22.57	21.61	21.63	21.54
		12	6	22.57	22.69	22.64	21.75	21.68	21.62
		12	11	22.49	22.60	22.54	21.66	21.65	21.56
		25	0	22.55	22.60	22.55	21.61	21.60	21.59
	256QAM	1	0	20.59	20.16	20.00	19.43	19.24	19.64
		1	12	**20.71**	20.23	20.00	19.54	19.31	**19.81**
		1	24	20.59	20.08	19.90	19.37	19.21	19.73
		12	0	20.59	20.64	20.50	19.70	19.57	19.67
		12	6	20.68	20.69	20.56	19.74	19.64	19.71
		12	11	20.61	20.64	20.50	19.70	19.53	19.67
		25	0	20.60	20.61	20.55	19.68	19.60	19.56

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				N/A	26740	N/A	N/A	26740	N/A
				N/A	819.0 MHz	N/A	N/A	819.0 MHz	N/A
10.0	QPSK	1	0		**25.70**			**24.70**	
		1	24		25.60			24.63	
		1	49		25.58			24.64	
		25	0		24.60			23.69	
		25	12		24.71			23.76	
		25	24		24.61			23.63	
		50	0		24.66			23.73	
	16QAM	1	0		**24.69**			**24.18**	
		1	24		24.63			24.08	
		1	49		24.65			24.07	
		25	0		23.69			22.73	
		25	12		23.69			22.76	
		25	24		23.61			22.73	
		50	0		23.69			22.73	
	64QAM	1	0		**23.62**			**22.91**	
		1	24		23.56			22.90	
		1	49		23.60			22.90	
		25	0		22.73			21.80	
		25	12		22.75			21.88	
		25	24		22.69			21.76	
		50	0		22.68			21.79	
	256QAM	1	0		20.22			19.44	
		1	24		20.24			19.48	
		1	49		20.23			19.46	
		25	0		20.65			19.73	
		25	12		**20.73**			**19.82**	
		25	24		20.62			19.73	
		50	0		20.66			19.71	

8.9. LTE BAND 26 (Part 22)

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				26797	26915	27033	26797	26915	27033
				824.7 MHz	836.5 MHz	848.3 MHz	824.7 MHz	836.5 MHz	848.3 MHz
1.4	QPSK	1	0	25.55	25.58	25.47	24.61	24.57	24.59
		1	2	**25.70**	25.62	25.49	24.63	24.62	**24.70**
		1	5	25.56	25.52	25.40	24.59	24.54	24.52
		3	0	25.46	25.52	25.43	24.62	24.48	24.45
		3	1	25.50	25.49	25.45	24.57	24.59	24.55
		3	2	25.54	25.58	25.48	24.63	24.59	24.39
		6	0	24.61	24.54	24.53	23.60	23.59	23.57
	16QAM	1	0	24.41	24.62	24.40	24.07	23.70	23.75
		1	2	24.33	**24.79**	24.49	**24.26**	23.76	23.77
		1	5	24.37	24.59	24.31	24.06	23.72	23.75
		3	0	24.63	24.70	24.60	23.86	23.92	23.73
		3	1	24.55	24.71	24.60	23.96	23.92	23.72
		3	2	24.57	24.72	24.58	23.93	23.95	23.75
		6	0	23.68	23.39	23.66	22.64	22.78	22.78
	64QAM	1	0	23.77	23.41	23.46	22.73	22.86	23.04
		1	2	**23.96**	23.57	23.39	22.80	23.02	**23.22**
		1	5	23.84	23.42	23.14	22.70	22.90	23.02
		3	0	23.81	23.64	23.42	22.85	22.65	22.91
		3	1	23.93	23.63	23.38	22.89	22.59	22.90
		3	2	23.91	23.68	23.35	22.91	22.67	22.85
		6	0	22.49	22.86	22.59	22.06	21.70	21.56
	256QAM	1	0	20.47	20.08	20.27	19.48	19.60	19.61
		1	2	20.68	20.18	20.26	19.47	19.72	19.66
		1	5	20.53	20.12	20.22	19.42	19.57	19.51
		3	0	20.53	20.44	20.58	19.67	19.66	19.66
		3	1	**20.71**	20.51	20.70	**19.85**	19.73	19.72
		3	2	20.62	20.58	20.58	19.81	19.80	19.67
		6	0	20.56	20.46	20.54	19.68	19.69	19.58

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				26805	26915	27025	26805	26915	27025
				825.5 MHz	836.5 MHz	847.5 MHz	825.5 MHz	836.5 MHz	847.5 MHz
3.0	QPSK	1	0	**25.70**	25.68	25.62	24.68	24.64	**24.70**
		1	7	25.67	25.66	25.59	24.56	24.61	24.61
		1	14	**25.70**	25.65	25.59	24.67	24.68	24.64
		8	0	24.74	24.68	24.68	23.76	23.71	23.73
		8	4	24.68	24.69	24.68	23.80	23.77	23.64
		8	7	24.67	24.65	24.58	23.74	23.70	23.66
		15	0	24.68	24.66	24.73	23.79	23.68	23.66
	16QAM	1	0	24.81	24.61	24.62	23.94	23.73	**24.18**
		1	7	**24.85**	24.53	24.27	23.84	23.78	24.10
		1	14	24.84	24.57	24.44	23.81	23.69	24.05
		8	0	23.85	23.70	23.80	22.81	22.79	22.77
		8	4	23.84	23.79	23.78	22.88	22.88	22.75
		8	7	23.78	23.68	23.73	22.84	22.82	22.73
		15	0	23.78	23.61	23.70	22.79	22.74	22.71
	64QAM	1	0	23.58	23.65	**23.71**	23.03	23.02	22.81
		1	7	23.54	23.57	23.59	**23.07**	23.00	22.86
		1	14	23.60	23.65	23.46	23.01	23.04	22.82
		8	0	22.84	22.65	22.80	21.78	21.82	21.81
		8	4	22.81	22.69	22.76	21.70	21.89	21.78
		8	7	22.78	22.65	22.74	21.74	21.85	21.75
		15	0	22.81	22.75	22.70	21.86	21.74	21.72
	256QAM	1	0	20.29	20.52	**21.14**	19.66	**20.33**	19.57
		1	7	20.37	20.50	21.02	19.75	**20.33**	19.42
		1	14	20.21	20.50	20.97	19.53	20.31	19.42
		8	0	20.72	20.73	20.76	19.83	19.81	19.74
		8	4	20.66	20.78	20.75	19.83	19.82	19.63
		8	7	20.64	20.78	20.68	19.76	19.82	19.57
		15	0	20.82	20.65	20.70	19.86	19.71	19.75

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26815	26915	27015	26815	26915	27015
				826.5 MHz	836.5 MHz	846.5 MHz	826.5 MHz	836.5 MHz	846.5 MHz
5.0	QPSK	1	0	25.56	**25.70**	25.68	24.67	24.69	24.48
		1	12	25.47	25.55	25.61	24.61	**24.70**	24.52
		1	24	25.54	25.59	25.60	24.54	24.67	24.46
		12	0	24.56	24.48	24.45	23.60	23.63	23.50
		12	6	24.56	24.52	24.54	23.65	23.60	23.53
		12	11	24.49	24.51	24.46	23.58	23.61	23.52
		25	0	24.52	24.50	24.42	23.65	23.52	23.41
	16QAM	1	0	**24.81**	24.45	24.44	23.79	23.81	**24.09**
		1	12	24.76	24.46	24.41	23.85	23.73	24.07
		1	24	24.75	24.42	24.37	23.71	23.72	23.99
		12	0	23.65	23.58	23.59	22.68	22.63	22.68
		12	6	23.72	23.58	23.65	22.78	22.66	22.78
		12	11	23.65	23.63	23.54	22.71	22.67	22.70
		25	0	23.58	23.44	23.49	22.62	22.59	22.53
	64QAM	1	0	23.70	23.56	23.08	22.85	22.56	22.97
		1	12	**23.73**	23.60	23.04	**23.20**	22.62	22.92
		1	24	23.70	23.58	23.10	22.94	22.59	22.81
		12	0	22.49	22.56	22.52	21.67	21.66	21.48
		12	6	22.57	22.57	22.59	21.79	21.64	21.54
		12	11	22.49	22.58	22.54	21.72	21.65	21.49
		25	0	22.56	22.52	22.47	21.70	21.51	21.38
	256QAM	1	0	20.56	20.18	19.95	19.44	19.29	19.78
		1	12	20.68	20.32	19.99	19.60	19.42	19.79
		1	24	20.53	20.11	19.93	19.51	19.25	19.73
		12	0	20.59	20.62	20.47	19.68	19.57	19.60
		12	6	**20.69**	20.62	20.52	**19.80**	19.56	19.68
		12	11	20.64	20.62	20.45	19.75	19.55	19.62
		25	0	20.61	20.53	20.42	19.67	19.51	19.45

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26840	26915	26990	26840	26915	26990
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz
10.0	QPSK	1	0	**25.70**	25.59	25.58	**24.70**	24.59	24.64
		1	24	25.61	25.54	25.49	24.56	24.52	24.56
		1	49	25.63	25.49	25.47	24.64	24.43	24.47
		25	0	24.62	24.57	24.57	23.64	23.66	23.65
		25	12	24.69	24.55	24.56	23.65	23.67	23.60
		25	24	24.61	24.57	24.54	23.57	23.63	23.55
		50	0	24.66	24.60	24.60	23.72	23.60	23.56
	16QAM	1	0	**24.72**	24.66	24.38	**24.14**	23.76	23.65
		1	24	24.65	24.51	24.29	24.04	23.69	23.59
		1	49	24.66	24.50	24.25	24.03	23.62	23.49
		25	0	23.66	23.71	23.64	22.65	22.75	22.66
		25	12	23.76	23.69	23.65	22.77	22.76	22.62
		25	24	23.68	23.65	23.60	22.66	22.70	22.64
		50	0	23.70	23.61	23.54	22.72	22.67	22.54
	64QAM	1	0	23.62	**23.70**	23.62	22.85	22.86	**22.98**
		1	24	23.62	23.66	23.63	22.87	22.89	22.94
		1	49	23.66	23.63	23.60	22.80	22.76	22.84
		25	0	22.73	22.74	22.65	21.76	21.80	21.65
		25	12	22.84	22.71	22.65	21.87	21.74	21.63
		25	24	22.74	22.72	22.65	21.78	21.74	21.68
		50	0	22.74	22.62	22.55	21.74	21.65	21.61
	256QAM	1	0	20.20	20.52	20.95	19.39	19.58	20.17
		1	24	20.30	20.35	**21.05**	19.44	19.51	**20.22**
		1	49	20.23	20.57	20.93	19.43	19.60	20.13
		25	0	20.64	20.73	20.60	19.67	19.73	19.62
		25	12	20.77	20.69	20.58	19.78	19.78	19.65
		25	24	20.66	20.68	20.60	19.68	19.72	19.62
		50	0	20.65	20.60	20.59	19.73	19.62	19.59

8.10. LTE BAND 30 AND 5G NR n30

LTE BAND 30

Test Engineer ID:	10646	Test Date:	4/9/2021

OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				27685	27710	27735	27685	27710	27735	27685	27710	27735	27685	27710	27735
				2307.5	2310.0	2312.5	2307.5	2310.0	2312.5	2307.5	2310.0	2312.5	2307.5	2310.0	2312.5
5.0	QPSK	1	0	25.57	25.51	25.45	22.44	22.60	22.56	22.29	22.16	22.29	22.57	22.54	22.63
		1	12	25.52	25.57	25.47	22.56	22.65	22.66	22.16	22.13	22.28	22.64	22.64	**22.70**
		1	24	25.63	**25.70**	25.65	22.63	**22.70**	22.61	**22.30**	22.20	22.29	22.63	22.59	22.66
		12	0	24.48	24.54	24.44	21.57	21.60	21.56	22.14	22.24	22.16	21.66	21.62	21.58
		12	6	24.62	24.58	24.54	21.66	21.65	21.59	22.29	22.22	22.22	21.68	21.67	21.65
		12	11	24.58	24.60	24.64	21.64	21.65	21.66	22.20	22.24	22.20	21.60	21.66	21.61
		25	0	24.51	24.56	24.53	21.60	21.63	21.56	22.29	22.25	22.29	21.63	21.60	21.58
	16QAM	1	0	24.36	24.40	24.72	21.60	21.65	22.03	22.22	22.24	22.15	22.11	21.71	21.74
		1	12	24.43	24.41	24.75	21.79	21.86	**22.13**	22.17	22.10	22.19	**22.16**	21.84	21.78
		1	24	24.46	24.51	**24.91**	21.76	21.84	22.11	22.12	22.19	22.13	22.12	21.65	21.78
		12	0	23.56	23.56	23.57	20.64	20.70	20.72	22.14	**22.28**	22.25	20.80	20.70	20.71
		12	6	23.67	23.64	23.66	20.72	20.75	20.77	22.19	22.21	22.16	20.88	20.73	20.78
		12	11	23.61	23.63	23.72	20.77	20.79	20.85	22.18	22.16	22.23	20.77	20.70	20.73
		25	0	23.52	23.59	23.57	20.60	20.68	20.68	22.25	22.17	22.10	20.72	20.58	20.64
	64QAM	1	0	23.49	22.95	23.21	20.68	20.51	20.97	22.24	22.13	22.18	21.01	20.92	20.60
		1	12	23.55	22.80	23.42	21.03	20.72	21.11	22.15	22.19	22.22	21.07	**21.09**	20.66
		1	24	23.32	22.85	**23.78**	20.99	20.72	**21.13**	22.14	**22.27**	22.23	21.06	20.91	20.56
		12	0	22.59	22.36	22.11	19.71	19.70	19.54	22.22	22.23	22.08	19.59	19.73	19.66
		12	6	22.64	22.35	22.27	19.77	19.73	19.59	22.15	22.19	22.16	19.69	19.80	19.68
		12	11	22.60	22.41	22.49	19.78	19.75	19.65	22.14	22.23	22.13	19.59	19.72	19.72
		25	0	22.67	22.40	22.41	19.65	19.64	19.53	22.18	22.11	22.15	19.62	19.63	19.62
	256QAM	1	0	20.21	20.02	20.48	17.20	17.16	17.75	19.91	19.77	20.31	17.77	17.45	17.25
		1	12	20.23	20.11	20.57	17.54	17.33	**17.89**	20.05	19.83	**20.35**	**18.04**	17.53	17.34
		1	24	20.25	20.18	**20.74**	17.56	17.38	17.84	20.07	19.86	20.30	17.79	17.47	17.26
		12	0	20.62	20.55	20.56	17.68	17.57	17.62	20.23	20.11	20.17	17.72	17.69	17.60
		12	6	20.73	20.58	20.61	17.75	17.69	17.67	20.28	20.21	20.25	17.77	17.79	17.65
		12	11	**20.74**	20.59	20.68	17.80	17.67	17.75	20.30	20.20	20.23	17.69	17.78	17.60
		25	0	20.70	20.54	20.52	17.69	17.66	17.57	20.20	20.15	20.11	17.65	17.71	17.65

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A
				N/A	2310.0	N/A	N/A	2310.0	N/A	N/A	2310.0	N/A	N/A	2310.0	N/A
10.0	QPSK	1	0		25.65			22.59			22.22			**22.70**	
		1	24		25.56			22.65			**22.28**			22.67	
		1	49		**25.70**			**22.70**			22.25			22.63	
		25	0		24.57			21.68			22.17			21.73	
		25	12		24.67			21.72			22.13			21.74	
		25	24		24.68			21.76			22.28			21.75	
		50	0		24.71			21.72			22.21			21.78	
	16QAM	1	0		**24.74**			22.04			22.22			**22.15**	
		1	24		24.62			22.10			22.14			22.12	
		1	49		24.72			**22.12**			**22.25**			22.11	
		25	0		23.61			20.70			22.22			20.77	
		25	12		23.66			20.75			22.21			20.78	
		25	24		23.76			20.80			22.14			20.82	
		50	0		23.69			20.76			22.24			20.76	
	64QAM	1	0		**23.56**			20.81			22.18			**20.99**	
		1	24		23.10			20.84			**22.23**			20.92	
		1	49		23.43			**20.94**			22.22			20.88	
		25	0		22.46			19.81			22.14			19.83	
		25	12		22.41			19.87			22.19			19.89	
		25	24		22.38			19.89			22.19			19.90	
		50	0		22.23			19.78			22.14			19.81	
	256QAM	1	0		20.05			17.40			19.98			17.53	
		1	24		20.04			17.48			20.06			17.51	
		1	49		20.21			17.57			20.04			17.46	
		25	0		20.48			17.74			20.32			17.78	
		25	12		20.58			**17.80**			**20.41**			**17.80**	
		25	24		**20.60**			17.78			20.37			**17.80**	
		50	0		20.54			17.73			20.28			17.77	

5G NR n30

Test Engineer ID:	10646	Test Date:	7/23/2021

OUTPUT POWER FOR 5G NR n30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				501200	518600	536000	501200	518600	536000	501200	518600	536000	501200	518600	536000
				2506	2593	2680	2506	2593	2680	2506	2593	2680	2506	2593	2680
5.0	BPSK	1	0	19.13	19.24	19.33	16.20	16.12	16.25	18.84	18.72	18.65	15.87	15.94	16.03
		1	1	25.39	25.30	25.52	22.39	22.44	22.29	22.22	22.21	22.25	22.27	22.39	22.57
		1	23	**25.64**	25.57	25.50	22.36	**22.70**	22.34	22.14	**22.30**	22.06	22.60	22.63	**22.64**
		1	24	19.66	19.35	19.44	16.45	16.57	16.36	18.87	18.96	19.00	16.11	16.23	15.94
		12	6	25.57	25.53	25.48	22.30	22.52	22.42	22.25	22.15	22.13	22.45	22.52	22.56
		25	0	25.01	25.01	25.01	21.74	21.83	21.89	22.29	22.24	22.20	21.90	21.92	21.97
	QPSK	1	0	19.46	19.49	19.50	16.35	16.13	16.15	18.83	18.74	18.85	16.03	15.98	16.08
		1	1	25.36	25.41	**25.70**	22.33	22.30	**22.40**	22.28	22.29	22.26	22.33	22.46	**22.70**
		1	23	25.59	25.55	25.38	**22.40**	22.36	22.37	22.14	22.12	22.08	22.69	22.43	22.62
		1	24	19.37	19.45	19.54	16.14	16.42	16.53	19.00	18.91	19.07	16.24	16.19	16.07
		12	6	25.54	25.56	25.53	22.36	21.31	22.31	22.25	22.08	22.15	22.39	22.58	22.59
		25	0	24.54	24.55	24.54	21.37	21.31	21.37	22.13	22.10	**22.29**	21.42	21.55	21.53
	16QAM	1	0	19.53	19.66	19.64	16.14	15.79	16.23	18.87	18.84	18.89	16.18	16.22	16.25
		1	1	24.57	24.77	24.62	21.13	21.01	21.36	22.20	**22.28**	22.13	21.41	21.41	**21.72**
		1	23	**24.86**	24.64	24.61	21.33	21.20	21.18	22.19	22.06	22.10	21.69	21.71	21.68
		1	24	19.45	19.54	19.67	16.22	16.28	16.18	19.00	19.00	19.01	16.31	16.45	16.27
		12	6	24.56	24.59	24.58	21.26	21.39	**21.41**	22.18	22.05	22.18	21.44	21.54	21.50
		25	0	23.64	23.57	23.59	20.37	20.38	20.47	22.17	22.14	22.06	20.47	20.60	20.55
	64QAM	1	0	19.61	19.51	19.65	16.31	16.48	16.30	18.78	18.88	18.98	16.25	16.27	16.14
		1	1	23.14	23.06	23.22	19.93	20.00	19.94	22.13	22.10	22.25	**20.36**	20.05	20.08
		1	23	23.16	23.03	**23.33**	**20.24**	19.94	20.06	22.23	22.21	22.17	20.04	20.19	20.05
		1	24	19.51	19.42	19.65	16.49	16.57	16.33	18.85	18.97	18.84	16.46	16.25	16.29
		12	6	23.00	23.02	23.03	19.85	20.01	19.95	**22.27**	22.15	22.22	19.89	20.02	19.97
		25	0	23.11	23.13	23.11	19.86	19.98	19.99	22.10	22.11	22.23	19.99	20.17	20.10
	256QAM	1	0	18.92	18.82	18.88	15.63	15.83	16.22	18.33	18.31	18.16	15.54	15.65	15.86
		1	1	20.43	20.39	20.66	17.63	17.33	17.49	19.92	19.91	19.81	17.25	17.31	17.48
		1	23	20.56	20.56	20.54	**17.93**	17.52	17.71	20.08	19.80	20.10	17.50	17.69	17.50
		1	24	19.04	18.93	18.97	16.25	16.15	16.07	18.48	18.48	18.35	15.73	15.77	15.78
		12	6	21.03	21.02	**21.04**	17.77	17.69	17.75	20.42	20.44	20.43	17.90	**18.03**	17.98
		25	0	21.02	20.96	20.96	17.75	17.69	17.70	20.43	20.45	**20.46**	17.83	18.01	17.96

OUTPUT POWER FOR 5G NR n30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	518600	N/A	N/A	518600	N/A	N/A	518600	N/A	N/A	518600	N/A
				N/A	2593	N/A	N/A	2593	N/A	N/A	2593	N/A	N/A	2593	N/A
10.0	BPSK	1	0		19.29			16.08			19.20			16.15	
		1	1		25.51			22.38			22.20			22.65	
		1	50		25.46			22.47			**22.30**			**22.70**	
		1	51		19.52			16.41			18.99			16.10	
		25	12		**25.62**			**22.55**			22.13			22.50	
		50	0		21.70			18.67			21.05			18.49	
	QPSK	1	0		19.41			16.08			18.66			16.12	
		1	1		25.59			22.43			22.05			22.45	
		1	50		**25.70**			**22.70**			**22.27**			22.60	
		1	51		19.50			16.32			18.96			16.17	
		25	12		25.44			22.65			22.09			**22.69**	
		50	0		21.61			18.68			20.97			18.69	
	16QAM	1	0		19.53			15.98			18.93			16.18	
		1	1		24.36			21.46			**22.26**			21.63	
		1	50		**24.62**			21.48			22.18			**21.77**	
		1	51		19.70			15.86			18.97			16.01	
		25	12		24.60			**21.63**			22.05			21.66	
		50	0		21.63			18.61			21.20			18.65	
	64QAM	1	0		19.58			16.01			18.93			16.70	
		1	1		22.99			19.91			22.17			20.18	
		1	50		**23.21**			**20.24**			**22.25**			**20.27**	
		1	51		19.32			16.70			18.94			16.68	
		25	12		23.11			20.05			22.22			20.13	
		50	0		21.61			18.70			21.19			18.70	
	256QAM	1	0		18.60			15.59			18.26			15.68	
		1	1		20.53			17.86			20.29			17.40	
		1	50		20.52			18.14			20.10			17.51	
		1	51		19.01			16.17			18.30			15.63	
		25	12		20.93			17.99			20.52			18.04	
		50	0		**20.99**			**18.30**			**20.64**			**18.11**	

8.11. LTE BAND 41 AND 5G NR n41

LTE BAND 41

Test Engineer ID:	10646	Test Date:	4/13/2021

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
				2498.5	2593.0	2687.5	2498.5	2593.0	2687.5	2498.5	2593.0	2687.5	2498.5	2593.0	2687.5
5.0	QPSK	1	0	27.14	27.42	27.42	24.30	24.47	24.42	23.62	26.65	26.48	23.37	**24.50**	24.37
		1	12	27.36	27.42	27.49	24.31	24.37	**24.50**	26.85	26.75	26.50	23.54	24.47	24.46
		1	24	27.40	**27.50**	27.45	24.36	24.47	24.43	**27.00**	26.66	26.45	23.60	24.41	24.41
		12	0	26.47	26.60	26.51	23.48	23.56	23.48	22.78	25.79	25.64	22.54	23.53	23.45
		12	6	26.53	26.59	26.53	23.51	23.59	23.54	22.86	25.77	25.67	22.61	23.54	23.51
		12	11	26.54	26.55	26.56	23.49	23.56	23.52	25.95	25.73	25.62	22.61	23.54	23.51
		25	0	26.46	26.52	26.42	23.50	23.53	23.50	22.95	25.72	25.59	22.53	23.53	23.45
	16QAM	1	0	26.34	26.80	26.80	23.69	23.86	23.82	23.09	26.00	25.83	22.66	23.85	23.76
		1	12	26.67	26.74	26.90	23.74	23.85	23.84	26.09	26.06	25.85	22.92	**23.90**	23.81
		1	24	26.73	26.80	**26.91**	23.69	**23.87**	23.80	**26.29**	26.07	25.72	22.94	23.83	23.83
		12	0	25.55	25.64	25.69	22.60	22.55	22.59	21.82	24.82	24.68	21.64	22.58	22.58
		12	6	25.62	25.68	25.68	22.63	22.66	22.65	21.97	24.92	24.68	21.70	22.64	22.67
		12	11	25.53	25.58	25.67	22.62	22.63	22.58	25.04	24.92	24.67	21.67	22.60	22.64
		25	0	25.49	25.51	25.53	22.52	22.63	22.54	22.00	24.77	24.62	21.56	22.54	22.49
	64QAM	1	0	24.19	26.15	25.82	22.52	23.15	22.78	22.42	**25.18**	24.63	21.26	23.25	22.77
		1	12	24.41	**26.27**	25.82	22.48	**23.28**	22.71	24.23	25.11	24.75	21.40	**23.30**	22.78
		1	24	24.78	26.16	25.88	22.55	23.17	22.77	24.72	25.07	24.60	21.65	23.21	22.86
		12	0	23.57	24.70	24.50	21.59	21.73	21.53	21.03	23.77	23.59	20.56	21.64	21.42
		12	6	23.72	24.74	24.47	21.62	21.81	21.53	21.16	23.73	23.64	20.62	21.74	21.50
		12	11	23.89	24.70	24.47	21.59	21.75	21.49	23.39	23.78	23.65	20.57	21.64	21.46
		25	0	23.64	24.50	24.38	21.59	21.57	21.36	20.98	23.69	23.64	20.54	21.55	21.37
	256QAM	1	0	22.86	22.88	22.89	19.97	19.96	19.76	19.12	22.22	21.97	18.83	20.05	19.81
		1	12	22.91	**23.26**	23.09	20.00	**20.12**	19.92	**22.88**	22.22	22.09	19.10	**20.40**	20.07
		1	24	22.87	22.94	22.91	19.96	20.00	19.82	22.53	22.15	22.04	19.09	20.01	19.93
		12	0	22.49	22.53	22.46	19.60	19.56	19.46	18.84	21.79	21.64	18.51	19.50	19.39
		12	6	22.50	22.51	22.48	19.57	19.55	19.53	18.91	21.79	21.61	18.61	19.50	19.48
		12	11	22.45	22.47	22.50	19.58	19.55	19.46	21.96	21.78	21.60	18.57	19.51	19.53
		25	0	22.48	22.49	22.49	19.53	19.58	19.51	18.90	21.79	21.60	18.49	19.51	19.52

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39700	40620	41540	39700	40620	41540	39700	40620	41540	39700	40620	41540
				2501.0	2593.0	2685.0	2501.0	2593.0	2685.0	2501.0	2593.0	2685.0	2501.0	2593.0	2685.0
10.0	QPSK	1	0	27.04	**27.50**	27.34	**24.50**	24.36	24.27	21.67	26.75	26.43	23.28	**24.50**	24.25
		1	24	27.25	27.40	27.34	24.38	24.32	24.24	**27.00**	26.71	26.45	23.54	24.43	24.32
		1	49	27.33	27.47	27.31	24.49	24.30	24.28	26.97	26.71	26.40	23.72	24.46	24.22
		25	0	26.50	26.57	26.48	23.46	23.49	23.34	23.01	25.82	25.57	22.58	23.52	23.33
		25	12	26.48	26.53	26.44	23.49	23.54	23.36	26.12	25.79	25.56	22.67	23.48	23.37
		25	24	26.51	26.52	26.50	23.49	23.49	23.39	25.15	25.80	25.58	22.71	23.49	23.46
		50	0	26.48	26.48	26.44	23.49	23.47	23.26	23.00	25.76	25.62	22.63	23.46	23.39
	16QAM	1	0	26.49	**26.87**	26.79	23.84	23.72	23.66	21.14	26.31	25.88	22.85	**24.02**	23.66
		1	24	26.82	26.82	26.74	23.80	23.71	23.57	26.39	26.15	25.89	23.04	23.88	23.63
		1	49	26.76	26.86	26.77	**23.95**	23.71	23.73	**26.45**	26.24	25.81	23.16	23.91	23.67
		25	0	25.48	25.54	25.47	22.50	22.50	22.31	22.07	24.87	24.60	21.61	22.55	22.39
		25	12	25.57	25.58	25.46	22.51	22.50	22.26	25.12	24.90	24.64	21.65	22.58	22.37
		25	24	25.51	25.57	25.47	22.57	22.47	22.37	24.16	24.90	24.62	21.76	22.52	22.46
		50	0	25.54	25.54	25.49	22.51	22.46	22.36	22.07	24.83	24.60	21.69	22.51	22.33
	64QAM	1	0	24.69	25.73	25.25	22.79	22.32	22.80	20.31	**25.07**	24.38	21.69	22.67	22.16
		1	24	25.27	25.70	25.29	22.72	22.35	**22.84**	24.53	24.97	24.33	22.11	**22.68**	22.24
		1	49	**25.90**	25.66	25.25	**22.84**	22.27	22.80	24.95	24.93	24.24	22.20	22.62	22.18
		25	0	23.72	24.46	24.53	21.43	21.54	21.34	21.04	23.75	23.63	20.54	21.45	21.44
		25	12	24.15	24.47	24.55	21.49	21.59	21.34	23.54	23.77	23.71	20.67	21.49	21.42
		25	24	24.46	24.43	24.53	21.42	21.59	21.40	23.08	23.74	23.61	20.71	21.42	21.48
		50	0	23.98	24.48	24.41	21.49	21.43	21.30	21.07	23.77	23.60	20.62	21.48	21.29
	256QAM	1	0	22.08	**22.65**	22.45	19.73	19.68	19.06	16.58	22.15	21.66	18.08	**19.96**	19.54
		1	24	22.10	22.64	22.44	19.63	19.62	19.09	21.97	21.91	21.58	18.39	19.80	19.44
		1	49	22.03	22.46	22.24	**19.90**	19.62	19.13	22.10	21.97	21.67	18.48	19.82	19.52
		25	0	22.37	22.33	22.29	19.50	19.49	19.33	19.13	21.79	21.59	18.62	19.44	19.36
		25	12	22.46	22.39	22.41	19.51	19.44	19.34	**22.20**	21.80	21.69	18.66	19.46	19.36
		25	24	22.38	22.41	22.40	19.50	19.45	19.44	21.12	21.78	21.62	18.72	19.42	19.41
		50	0	22.36	22.37	22.41	19.49	19.55	19.31	19.00	21.77	21.67	18.61	19.48	19.42

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
				2503.5	2593.0	2682.5	2503.5	2593.0	2682.5	2503.5	2593.0	2682.5	2503.5	2593.0	2682.5
15.0	QPSK	1	0	27.26	27.47	27.41	24.41	24.47	24.37	21.71	26.65	26.48	23.34	**24.50**	24.33
		1	37	27.35	27.39	27.37	24.41	24.45	24.31	26.93	26.57	26.38	23.58	24.32	24.30
		1	74	27.41	27.46	**27.50**	24.47	**24.50**	24.36	**27.00**	26.66	26.47	23.75	24.44	24.41
		36	0	26.55	26.59	26.56	23.61	23.66	23.50	22.14	25.83	25.64	22.72	23.56	23.39
		36	16	26.63	26.62	26.54	23.60	23.58	23.49	26.12	25.82	25.59	22.74	23.53	23.38
		36	35	26.63	26.61	26.56	23.64	23.55	23.45	23.13	25.77	25.60	22.82	23.48	23.46
		75	0	26.56	26.61	26.57	23.58	23.57	23.43	22.04	25.78	25.57	22.69	23.50	23.38
	16QAM	1	0	26.66	26.78	26.83	23.80	23.81	23.79	21.13	26.13	25.85	22.69	**23.84**	23.71
		1	37	**26.89**	26.76	26.81	23.81	23.76	23.67	**26.42**	26.09	25.92	23.12	23.80	23.76
		1	74	26.87	26.72	**26.89**	**23.84**	23.80	23.75	**26.42**	26.04	25.86	23.25	23.83	23.79
		36	0	25.58	25.62	25.59	22.68	22.62	22.48	21.06	24.86	24.60	21.76	22.58	22.37
		36	16	25.66	25.63	25.55	22.62	22.63	22.48	25.09	24.86	24.64	21.74	22.54	22.36
		36	35	25.67	25.67	25.57	22.66	22.57	22.45	22.12	24.77	24.59	21.83	22.52	22.48
		75	0	25.68	25.60	25.57	22.65	22.57	22.49	21.12	24.77	24.59	21.75	22.50	22.37
	64QAM	1	0	24.91	25.79	25.36	22.79	22.38	23.04	20.37	**25.04**	24.41	21.85	**22.71**	22.20
		1	37	25.76	25.75	25.39	22.76	22.29	22.92	24.71	24.92	24.35	22.38	22.67	22.18
		1	74	**26.16**	25.70	25.38	22.84	22.39	**23.07**	24.99	24.94	24.37	22.43	22.62	22.25
		36	0	24.13	24.59	24.63	21.62	21.69	21.58	20.26	23.83	23.73	20.80	21.57	21.50
		36	16	24.64	24.63	24.69	21.63	21.71	21.57	23.82	23.81	23.71	20.63	21.56	21.36
		36	35	24.70	24.60	24.70	21.64	21.65	21.58	21.17	23.78	23.69	20.77	21.52	21.45
		75	0	24.62	24.63	24.60	21.64	21.61	21.52	20.12	23.80	23.57	20.60	21.49	21.38
	256QAM	1	0	22.18	22.93	22.62	19.94	19.67	19.24	16.65	**22.20**	21.66	18.40	19.27	19.69
		1	37	22.28	22.94	22.58	19.92	19.61	19.14	22.00	22.06	21.55	18.75	19.10	19.78
		1	74	22.46	**22.96**	22.62	**20.01**	19.65	19.19	22.02	22.05	21.59	18.93	19.18	**19.91**
		36	0	22.53	22.56	22.63	19.60	19.65	19.53	18.10	21.83	21.65	18.58	19.49	19.35
		36	16	22.63	22.60	22.59	19.57	19.63	19.52	22.08	21.78	21.64	18.65	19.49	19.35
		36	35	22.62	22.57	22.62	19.55	19.54	19.46	19.15	21.72	21.63	18.73	19.42	19.42
		75	0	22.59	22.60	22.59	19.61	19.63	19.47	18.03	21.80	21.59	18.61	19.47	19.38

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
				2506.0	2593.0	2680.0	2506.0	2593.0	2680.0	2506.0	2593.0	2680.0	2506.0	2593.0	2680.0
20.0	QPSK	1	0	27.32	**27.50**	27.29	24.39	24.45	24.38	21.74	26.82	26.47	23.24	**24.50**	24.40
		1	49	27.39	27.37	27.22	24.48	24.29	24.27	**27.00**	26.60	26.29	23.68	24.26	24.35
		1	99	27.31	27.37	27.34	**24.50**	24.36	24.35	26.91	26.67	26.36	23.81	24.33	24.44
		50	0	26.49	26.51	26.43	23.59	23.57	23.36	22.06	25.73	25.52	22.63	23.51	23.37
		50	24	26.54	26.58	26.49	23.60	23.58	23.44	26.14	25.73	25.52	22.82	23.47	23.38
		50	49	26.54	26.50	26.47	23.61	23.47	23.42	23.03	25.69	25.49	22.78	23.44	23.43
		100	0	26.55	26.44	26.47	23.61	23.52	23.44	22.12	25.66	25.53	22.78	23.46	23.34
	16QAM	1	0	26.47	**26.97**	26.74	23.88	23.87	23.56	20.90	**26.21**	25.85	22.66	**23.96**	23.58
		1	49	26.51	26.79	26.68	23.96	23.75	23.50	26.06	26.06	25.75	23.09	23.71	23.47
		1	99	26.56	26.80	26.75	**24.00**	23.78	23.46	26.11	26.06	25.76	23.24	23.74	23.52
		50	0	25.50	25.56	25.46	22.68	22.60	22.37	21.12	24.79	24.57	21.66	22.52	22.38
		50	24	25.60	25.64	25.45	22.67	22.58	22.47	25.13	24.76	24.54	21.78	22.49	22.41
		50	49	25.53	25.52	25.48	22.65	22.52	22.45	22.05	24.72	24.48	21.80	22.43	22.47
		100	0	25.59	25.45	25.43	22.60	22.50	22.50	21.14	24.69	24.53	21.75	22.47	22.33
	64QAM	1	0	24.65	25.66	25.94	22.77	**23.14**	22.19	19.90	24.95	**25.14**	21.67	**23.14**	22.53
		1	49	25.67	25.63	25.89	22.77	23.01	22.53	24.45	24.88	25.02	21.98	22.95	22.51
		1	99	25.58	25.61	**25.96**	22.82	23.03	22.52	24.47	24.86	25.04	22.06	22.95	22.58
		50	0	24.32	24.56	24.45	21.67	21.60	21.42	20.07	23.76	23.57	20.73	21.52	21.43
		50	24	24.58	24.60	24.51	21.68	21.60	21.46	23.86	23.74	23.57	20.85	21.53	21.43
		50	49	24.57	24.55	24.54	21.71	21.58	21.46	21.10	23.71	23.55	20.83	21.47	21.48
		100	0	24.52	24.50	24.45	21.64	21.56	21.43	20.11	23.79	23.52	20.81	21.46	21.41
	256QAM	1	0	22.54	**22.87**	22.71	19.85	19.90	19.55	16.96	22.13	21.85	18.63	**19.89**	19.50
		1	49	22.62	22.79	22.80	19.87	19.78	19.47	**22.30**	21.91	21.74	18.99	19.73	19.44
		1	99	22.65	22.72	22.70	**19.96**	19.82	19.59	22.24	21.96	21.74	19.23	19.71	19.58
		50	0	22.54	22.45	22.41	19.60	19.56	19.38	18.14	21.70	21.52	18.60	19.53	19.42
		50	24	22.54	22.51	22.42	19.57	19.55	19.46	22.15	21.71	21.51	18.73	19.50	19.44
		50	49	22.56	22.47	22.43	19.58	19.48	19.43	19.09	21.65	21.49	18.79	19.46	19.45
		100	0	22.52	22.44	22.41	19.63	19.52	19.42	18.07	21.69	21.50	18.75	19.47	19.44

5G NR n41

Test Engineer ID:	24875	Test Date:	5/17/2021

OUTPUT POWER FOR 5G NR n41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				501200	518600	536000	501200	518600	536000	501200	518600	536000	501200	518600	536000
				2506.0	2593.0	2680.0	2506.0	2593.0	2680.0	2506.0	2593.0	2680.0	2506.0	2593.0	2680.0
20.0	BPSK	1	0	21.84	23.61	23.85	19.64	21.91	21.39	21.09	23.45	23.41	19.02	21.46	21.42
		1	1	21.23	**27.70**	27.67	19.88	25.30	25.27	21.13	27.00	26.98	19.08	24.43	24.34
		1	49	27.37	27.66	26.45	25.39	**25.70**	24.78	**27.20**	27.15	27.15	**24.55**	24.41	24.34
		1	50	23.68	23.70	23.77	21.17	22.36	21.91	23.68	23.29	23.39	21.58	21.31	21.27
		25	12	23.76	27.28	27.54	21.62	25.48	24.74	23.34	26.78	26.86	21.46	24.30	24.24
		50	0	23.74	26.68	26.83	21.74	25.02	24.52	23.34	26.51	26.44	21.45	24.33	24.18
	QPSK	1	0	21.23	23.75	23.81	19.47	21.89	21.58	20.69	23.52	23.31	18.57	21.45	21.38
		1	1	21.29	27.47	26.92	18.93	25.49	25.12	20.54	26.90	26.90	18.66	24.45	24.39
		1	49	**27.70**	27.64	26.78	25.00	25.31	24.94	26.99	**27.02**	26.87	**24.70**	24.40	24.29
		1	50	23.83	23.75	23.82	21.65	21.98	22.06	23.58	23.26	23.31	21.74	21.40	21.33
		25	12	22.83	27.37	27.37	20.51	**25.65**	24.98	22.40	26.83	26.98	20.55	24.33	24.27
		50	0	22.79	26.21	26.56	20.86	24.49	24.04	22.32	26.01	25.99	20.46	23.87	23.84
	16QAM	1	0	21.03	23.45	23.62	19.40	21.76	21.51	20.88	23.73	23.83	18.75	21.26	21.14
		1	1	21.04	26.11	**26.51**	19.24	23.99	23.57	20.74	26.11	26.14	18.75	23.84	23.62
		1	49	26.18	26.39	26.10	24.46	24.28	23.91	**26.27**	26.20	25.99	**24.12**	23.86	23.87
		1	50	23.49	23.23	23.49	21.60	21.81	21.30	23.88	23.38	23.48	21.80	21.25	21.16
		25	12	22.23	26.34	26.41	19.98	**24.60**	24.20	21.89	25.86	26.05	20.06	23.83	23.81
		50	0	22.26	25.34	25.49	20.26	23.56	23.09	21.86	25.18	25.04	19.99	22.92	22.78
	64QAM	1	0	20.57	23.83	23.90	18.30	21.89	21.68	19.68	23.06	22.91	18.61	21.47	21.46
		1	1	20.66	24.96	25.32	18.70	22.52	22.63	19.65	24.05	24.14	18.49	22.49	22.65
		1	49	**25.41**	25.04	25.22	22.97	22.90	22.84	24.10	24.35	24.01	**23.07**	22.47	22.45
		1	50	23.81	23.69	23.83	21.05	21.70	21.77	23.21	22.83	23.06	21.98	21.51	21.49
		25	12	22.25	24.89	25.34	20.19	23.13	22.54	21.85	24.37	24.48	19.90	22.28	22.23
		50	0	22.33	24.80	24.98	20.14	**23.15**	22.59	21.94	**24.52**	24.43	19.93	22.35	22.26
	256QAM	1	0	19.47	23.37	23.14	17.48	21.20	20.77	18.65	22.53	22.66	16.26	**20.40**	19.93
		1	1	19.65	23.17	23.26	17.50	21.13	21.01	18.84	22.60	22.54	16.33	20.30	19.93
		1	49	23.40	22.95	**23.51**	21.12	**21.45**	20.69	22.80	22.65	22.51	20.25	20.18	20.16
		1	50	23.22	22.97	22.84	20.91	20.79	20.98	**22.83**	22.52	22.48	20.23	20.28	19.98
		25	12	20.74	22.77	23.26	18.50	21.23	20.44	20.37	22.37	22.35	18.42	20.32	20.28
		50	0	20.69	22.82	22.79	18.64	21.12	20.51	20.33	22.59	22.41	18.44	20.38	20.35

OUTPUT POWER FOR 5G NR n41 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				502200	518600	525000	502200	518600	525000	502200	518600	525000	502200	518600	525000
				2511.0	2593.0	2675.0	2511.0	2593.0	2675.0	2511.0	2593.0	2675.0	2511.0	2593.0	2675.0
30.0	BPSK	1	0	22.06	23.94	23.88	20.23	22.04	22.26	20.63	23.15	23.12	19.00	21.36	21.35
		1	1	22.00	27.42	27.62	20.10	25.64	25.67	20.81	22.28	26.79	18.98	23.97	24.31
		1	76	27.48	27.47	**27.70**	**25.70**	25.40	25.36	**27.20**	26.70	26.67	**24.62**	24.32	24.37
		1	77	24.01	24.07	24.06	21.78	22.41	22.38	23.53	23.11	23.04	21.66	21.16	21.34
		36	18	23.84	27.34	27.43	21.75	24.83	25.34	23.19	26.51	26.57	21.48	24.14	24.28
		75	0	23.90	26.81	26.90	21.78	24.80	24.97	23.21	26.08	26.11	21.42	24.22	24.26
	QPSK	1	0	21.88	24.07	24.02	19.32	21.54	21.94	20.11	23.22	23.21	18.64	21.31	21.35
		1	1	21.52	27.49	**27.66**	19.45	25.35	25.31	20.16	26.73	26.75	18.64	23.97	24.32
		1	76	27.51	27.50	27.59	25.28	25.22	**25.65**	**27.04**	26.66	26.60	**24.70**	24.16	24.22
		1	77	24.09	24.01	24.23	21.91	22.28	22.34	23.37	23.05	23.07	21.70	21.16	21.30
		36	18	22.87	27.33	27.41	20.66	24.26	25.19	22.10	26.53	26.52	20.52	24.16	24.27
		75	0	22.78	26.36	26.35	20.65	24.20	24.50	22.15	25.54	25.60	20.49	23.75	24.08
	16QAM	1	0	20.94	23.60	23.62	21.01	21.81	22.37	20.39	23.41	23.26	18.73	21.21	21.14
		1	1	21.15	26.24	26.18	19.88	24.01	24.43	20.30	25.81	25.80	18.67	23.84	23.58
		1	76	26.38	26.26	26.31	**24.71**	24.51	24.31	**26.11**	25.81	25.70	**24.02**	23.75	23.79
		1	77	23.68	23.62	23.82	21.73	22.21	22.25	23.45	23.28	23.13	21.72	21.13	21.09
		36	18	22.25	26.37	**26.46**	20.24	23.29	24.37	21.50	25.49	25.50	19.95	23.82	23.90
		75	0	22.35	25.31	25.34	20.26	23.32	23.46	21.62	24.59	24.60	19.89	22.59	22.88
	64QAM	1	0	20.73	23.61	23.86	18.64	22.22	22.32	19.50	22.78	22.58	18.48	21.56	21.38
		1	1	21.73	24.88	24.94	18.71	22.96	**23.37**	19.36	24.07	23.99	18.39	22.52	22.60
		1	76	**25.07**	24.80	24.93	22.94	22.62	23.17	24.12	23.71	23.79	**22.95**	22.41	22.41
		1	77	24.22	23.84	24.07	21.60	22.05	22.00	22.96	22.73	22.64	21.89	21.41	21.40
		36	18	22.22	24.76	24.83	20.09	22.73	22.88	21.60	24.03	23.93	19.84	22.27	22.23
		75	0	22.37	24.78	24.84	20.27	22.87	22.92	21.61	**24.15**	24.09	19.86	22.28	22.26
	256QAM	1	0	19.45	23.28	23.09	17.63	21.29	21.14	18.35	22.39	22.45	16.15	20.17	19.86
		1	1	19.88	23.26	23.22	17.85	21.54	20.95	18.43	22.29	22.55	16.27	20.17	19.89
		1	76	23.13	23.23	**23.45**	20.75	21.14	**21.61**	**22.57**	22.28	22.40	20.14	20.26	20.22
		1	77	23.39	23.17	23.35	20.62	21.48	21.48	22.36	22.28	22.39	20.16	20.05	19.92
		36	18	20.76	22.72	22.87	18.80	20.87	20.77	20.09	21.88	22.07	18.32	**20.56**	20.25
		75	0	20.87	22.74	22.84	17.69	19.73	19.90	20.05	22.06	22.12	18.36	20.35	20.35

OUTPUT POWER FOR 5G NR n41 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				503200	518600	534000	503200	518600	534000	503200	518600	534000	503200	518600	534000
				2516.0	2593.0	2670.0	2516.0	2593.0	2670.0	2516.0	2593.0	2670.0	2516.0	2593.0	2670.0
40.0	BPSK	1	0	21.60	23.65	23.69	19.89	22.00	22.08	21.10	23.07	23.29	19.49	21.38	21.90
		1	1	21.84	27.46	27.44	20.27	25.65	25.27	20.86	**27.20**	26.85	19.45	23.99	24.44
		1	104	27.50	27.32	**27.65**	**25.70**	25.53	25.63	27.11	26.90	26.77	**24.64**	24.21	24.39
		1	105	24.02	24.00	23.90	21.81	22.12	22.40	23.67	23.39	23.37	22.15	21.18	21.95
		50	25	23.65	27.18	27.33	21.95	25.32	25.38	23.34	26.67	26.76	21.96	23.93	24.29
		100	0	23.73	26.70	26.71	21.90	24.84	24.90	23.33	26.11	26.22	21.88	23.94	24.28
	QPSK	1	0	21.49	23.65	23.80	19.36	22.14	21.94	20.51	23.16	23.13	19.13	21.36	21.91
		1	1	21.08	27.27	27.34	19.59	25.38	25.35	20.33	**27.09**	26.68	19.11	24.01	24.43
		1	104	27.50	27.54	**27.70**	25.42	25.42	**25.46**	27.06	26.97	25.98	**24.70**	24.31	24.41
		1	105	23.98	23.75	24.03	21.64	21.98	22.04	23.52	23.08	23.24	22.19	21.19	21.98
		50	25	22.69	27.15	27.25	20.86	25.45	25.31	22.30	26.65	26.64	21.00	23.84	24.27
		100	0	22.71	26.17	26.23	20.96	24.36	24.38	22.33	25.60	25.70	20.95	23.89	24.20
	16QAM	1	0	21.00	23.27	23.58	19.50	22.07	22.23	20.82	23.48	23.40	19.22	21.22	21.81
		1	1	21.00	26.03	25.83	19.43	24.38	24.28	20.75	**26.13**	25.78	19.14	23.90	24.28
		1	104	26.32	26.23	26.21	24.07	**24.59**	23.84	26.02	25.74	25.83	**24.49**	23.97	24.24
		1	105	23.64	23.49	23.45	21.83	22.23	21.97	23.46	23.25	23.21	22.21	21.15	21.84
		50	25	22.23	26.18	**26.33**	20.33	24.30	24.32	21.81	25.70	25.77	20.43	23.82	24.22
		100	0	22.25	25.15	25.21	20.42	23.51	23.44	21.81	24.60	24.73	20.35	22.98	23.32
	64QAM	1	0	20.64	23.93	23.98	18.85	22.31	21.55	19.63	22.95	23.01	18.97	21.58	21.98
		1	1	20.59	24.83	24.77	19.04	23.08	23.29	19.38	23.93	23.98	18.86	22.54	**23.60**
		1	104	**25.24**	24.92	25.09	**23.68**	22.60	23.03	23.93	23.90	24.01	23.42	22.80	23.33
		1	105	23.94	23.78	23.98	22.07	21.93	22.58	23.09	22.76	22.80	22.38	21.44	22.06
		50	25	22.13	24.72	24.74	20.21	22.86	22.90	21.83	24.16	**24.17**	20.32	22.46	22.76
		100	0	22.19	24.63	24.74	20.33	22.98	22.87	21.75	24.12	24.11	20.32	22.51	22.78
	256QAM	1	0	19.36	23.03	23.01	17.83	20.67	21.14	18.60	22.62	22.40	16.77	20.16	20.83
		1	1	19.43	23.01	22.90	17.94	21.25	21.14	18.57	**22.91**	22.41	16.74	20.19	20.88
		1	104	**23.27**	23.03	22.94	21.43	21.28	**21.59**	22.82	22.55	22.53	20.69	20.47	20.88
		1	105	23.17	22.93	22.99	20.98	20.58	21.34	**22.91**	22.18	22.49	20.65	20.09	20.45
		50	25	20.58	22.67	22.64	18.73	20.88	20.82	20.21	22.10	22.14	18.90	20.22	20.80
		100	0	20.71	22.63	22.73	18.84	21.01	20.91	20.31	22.13	22.23	18.98	20.17	**20.89**

OUTPUT POWER FOR 5G NR n41 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				Ant 2			ANT 1			ANT 4			ANT 3		
				504200	518600	533000	504200	518600	533000	504200	518600	533000	504200	518600	533000
				2521.0	2593.0	2665.0	2521.0	2593.0	2665.0	2521.0	2593.0	2665.0	2521.0	2593.0	2665.0
50.0	BPSK	1	0	21.67	23.73	23.81	20.14	21.83	22.06	20.80	23.40	23.27	19.61	21.68	21.99
		1	1	21.89	27.29	27.36	20.09	25.30	25.48	21.02	27.02	26.92	19.58	24.39	24.55
		1	131	**27.56**	27.46	27.26	25.46	25.36	**25.61**	**27.20**	26.97	26.96	**24.64**	24.26	24.39
		1	132	23.90	23.78	23.70	21.92	22.11	22.18	23.59	23.22	23.54	22.19	21.50	22.10
		64	32	23.73	27.35	27.24	21.86	25.35	25.53	23.38	26.92	26.68	22.06	24.01	24.39
		128	0	23.78	26.77	26.67	21.81	24.88	24.98	23.31	26.30	26.17	22.08	24.00	24.37
	QPSK	1	0	21.52	24.13	23.56	19.66	22.09	21.98	20.39	23.42	23.33	19.13	21.67	22.02
		1	1	21.35	27.43	27.22	19.45	25.50	25.28	20.54	**27.13**	26.70	19.21	24.41	24.53
		1	131	**27.70**	27.44	27.63	25.38	25.56	**25.70**	27.09	26.89	26.72	**24.70**	24.04	24.51
		1	132	24.05	23.72	24.04	22.09	22.03	22.28	23.65	23.19	23.33	22.18	21.49	22.04
		64	32	22.67	27.21	27.21	20.91	25.46	25.50	22.33	27.00	26.66	21.07	23.89	24.37
		128	0	22.70	26.27	26.17	20.87	24.30	24.39	22.39	25.87	25.61	21.07	23.97	24.24
	16QAM	1	0	20.95	23.48	23.66	19.16	22.01	21.89	20.57	23.51	23.61	19.06	21.54	21.87
		1	1	20.96	26.23	25.74	19.72	24.03	24.36	20.66	26.12	25.83	19.28	24.00	24.40
		1	131	26.18	26.24	**26.35**	24.35	24.32	**24.54**	**26.26**	25.95	25.73	**24.57**	23.50	24.39
		1	132	23.59	23.33	23.40	21.41	22.09	21.65	23.81	23.61	23.50	22.36	21.25	21.99
		64	32	22.10	26.32	26.27	20.36	24.40	**24.54**	21.96	25.97	25.78	20.53	23.77	24.33
		128	0	22.23	25.22	25.18	20.38	23.30	23.47	21.84	24.89	24.68	20.45	23.12	23.45
	64QAM	1	0	20.81	23.76	23.89	19.00	22.13	21.77	19.44	23.10	22.80	18.66	22.67	22.11
		1	1	20.74	24.89	24.85	18.95	23.04	22.96	19.53	24.18	24.02	18.98	22.71	**23.73**
		1	131	**26.31**	24.88	24.99	22.87	23.00	**23.15**	24.34	24.04	23.80	23.67	22.50	23.42
		1	132	23.91	23.87	23.80	22.33	22.08	21.42	23.35	22.96	23.20	22.22	21.54	22.13
		64	32	22.19	24.81	24.72	20.31	22.97	23.12	21.85	**24.41**	24.18	20.44	22.90	22.87
		128	0	22.15	24.71	24.59	20.32	22.99	22.98	21.81	24.34	24.16	20.45	23.04	22.90
	256QAM	1	0	19.37	22.88	23.19	17.43	20.82	20.96	18.66	22.51	22.50	16.77	20.61	20.67
		1	1	19.21	23.15	23.20	17.37	21.26	**21.58**	18.76	22.68	22.63	16.87	20.31	**21.00**
		1	131	23.42	23.03	**23.51**	21.15	21.36	21.21	22.79	22.40	22.62	20.81	20.07	20.97
		1	132	23.26	23.16	23.29	21.00	21.00	21.19	**22.96**	22.43	22.66	20.89	20.21	20.75
		64	32	20.75	22.72	22.71	18.97	20.92	21.15	20.35	22.50	22.23	19.01	20.23	20.92
		128	0	20.75	22.71	22.64	18.83	20.96	20.99	20.32	22.29	22.19	19.08	20.32	20.97

OUTPUT POWER FOR 5G NR n41 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				505200	518600	532000	505200	518600	532000	505200	518600	532000	505200	518600	532000
				2526.0	2593.0	2660.0	2526.0	2593.0	2660.0	2526.0	2593.0	2660.0	2526.0	2593.0	2660.0
60.0	BPSK	1	0	21.69	23.98	23.83	19.84	21.68	21.83	20.92	23.43	23.29	19.55	22.06	21.88
		1	1	21.82	27.42	27.38	19.71	25.12	25.16	20.93	**27.20**	26.72	19.70	24.50	24.42
		1	160	27.53	27.34	**27.62**	25.04	25.37	**25.70**	27.10	26.96	27.05	**24.70**	24.52	24.53
		1	161	24.05	23.72	23.86	21.85	21.85	21.89	23.53	23.26	23.31	22.22	21.95	22.05
		81	40	23.93	27.39	27.36	21.65	25.20	25.11	23.59	26.83	26.76	22.22	24.46	24.40
		162	0	23.98	26.85	26.84	21.61	24.57	24.77	23.45	26.29	26.29	22.16	24.54	24.41
	QPSK	1	0	21.40	23.88	23.95	19.30	21.52	21.66	20.26	23.35	23.11	19.04	22.05	21.91
		1	1	21.46	27.45	27.34	19.21	25.08	25.10	20.28	27.12	26.56	19.31	24.54	24.34
		1	160	27.57	27.50	**27.70**	25.22	25.21	25.14	**27.13**	26.64	26.92	24.67	24.55	**24.70**
		1	161	24.19	23.97	23.94	21.56	21.65	21.69	23.51	23.34	23.32	22.23	21.96	21.97
		81	40	22.87	27.36	27.33	20.65	25.14	**25.24**	22.49	26.82	26.86	21.17	24.46	24.38
		162	0	22.96	26.37	26.35	20.66	24.09	24.07	22.43	25.78	25.79	21.16	24.52	24.43
	16QAM	1	0	21.03	23.26	23.43	18.93	21.11	21.89	20.75	23.38	23.36	18.94	21.97	22.00
		1	1	21.02	26.13	26.01	19.05	23.98	24.10	20.56	26.00	25.71	19.21	24.48	24.53
		1	160	25.99	26.03	26.08	24.19	**24.22**	24.06	**26.20**	25.81	26.05	**24.63**	24.38	24.15
		1	161	23.64	23.38	23.70	21.37	21.36	21.48	23.78	23.43	23.63	22.14	21.80	22.21
		81	40	22.33	**26.36**	26.31	20.19	24.17	24.20	21.99	25.82	25.78	20.70	24.51	24.36
		162	0	22.43	25.34	25.36	20.13	23.10	23.10	21.92	24.85	24.77	20.67	23.56	23.50
	64QAM	1	0	20.75	23.83	23.87	18.49	21.79	21.69	19.31	23.20	22.68	18.74	22.11	21.80
		1	1	20.84	24.88	24.99	18.64	22.65	22.58	19.57	24.34	23.83	19.08	23.16	22.93
		1	160	25.10	24.92	**25.20**	22.79	22.56	**22.98**	**24.50**	23.86	24.03	**23.63**	23.15	23.11
		1	161	23.94	23.96	24.00	21.31	21.17	21.75	23.29	23.05	22.97	22.45	22.23	21.87
		81	40	22.37	24.82	24.83	20.09	22.67	22.73	21.97	24.33	24.25	20.63	23.03	22.90
		162	0	22.44	24.82	24.81	20.14	22.69	22.65	21.90	24.33	24.29	20.66	23.00	22.96
	256QAM	1	0	19.59	22.75	22.77	17.81	21.00	**21.15**	18.50	22.72	22.21	16.93	20.99	20.44
		1	1	19.41	22.90	22.89	17.27	20.74	20.84	18.73	22.76	22.64	17.05	20.71	20.46
		1	160	**23.41**	22.94	23.38	20.55	20.68	21.07	22.78	22.60	22.45	**21.07**	20.73	20.48
		1	161	22.90	23.08	23.06	21.11	20.92	20.61	**22.99**	22.36	22.51	21.03	20.78	20.47
		81	40	20.88	22.78	22.83	18.63	20.64	20.61	20.46	22.26	22.31	19.16	21.02	20.89
		162	0	20.87	22.83	22.75	18.61	20.56	20.59	20.39	22.29	22.21	19.15	21.01	20.97

OUTPUT POWER FOR 5G NR n41 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				507200	518600	530000	507200	518600	530000	507200	518600	530000	507200	518600	530000
				2536.0	2593.0	2650.0	2536.0	2593.0	2650.0	2536.0	2593.0	2650.0	2536.0	2593.0	2650.0
80.0	BPSK	1	0	22.08	22.02	24.01	20.56	20.08	22.29	20.98	21.50	23.37	19.54	20.11	21.84
		1	1	21.81	22.11	**27.70**	20.12	20.17	25.66	20.99	21.68	26.91	19.70	20.01	24.52
		1	215	27.62	27.57	27.62	25.59	25.53	**25.70**	27.03	**27.20**	26.91	**24.70**	24.51	24.52
		1	216	24.15	24.18	24.20	21.95	22.02	22.13	23.55	23.30	23.44	22.14	22.00	21.98
		108	54	24.08	27.54	27.59	22.08	25.64	25.61	23.69	26.84	26.84	22.19	24.43	24.37
		216	0	24.01	26.94	27.03	22.11	25.14	25.23	23.52	26.37	26.29	22.14	24.51	24.39
	QPSK	1	0	21.49	21.63	24.07	19.79	19.82	21.96	20.56	21.04	23.33	19.16	19.63	21.96
		1	1	21.55	21.55	27.48	19.67	19.69	25.40	20.61	21.07	26.87	19.21	19.69	24.54
		1	215	27.42	27.65	**27.68**	25.43	**25.61**	25.59	**27.10**	26.99	26.84	**24.66**	24.52	**24.66**
		1	216	24.03	24.11	23.96	22.08	22.14	22.21	23.45	23.33	23.29	22.17	21.92	21.98
		108	54	23.02	27.58	27.67	21.05	25.58	25.59	22.60	26.80	26.83	21.16	24.43	24.35
		216	0	23.04	26.56	26.54	21.11	24.63	24.63	22.52	25.94	25.80	21.17	24.51	24.36
	16QAM	1	0	21.38	21.20	23.91	19.73	19.57	21.69	20.83	21.17	23.23	19.06	19.52	22.04
		1	1	21.29	21.44	26.19	19.30	19.46	24.19	21.03	21.21	25.80	19.13	19.52	**24.69**
		1	215	26.24	26.58	26.48	24.27	24.39	**24.76**	26.02	**26.04**	26.03	24.61	24.35	24.41
		1	216	23.87	23.99	23.85	21.81	21.57	22.00	23.43	23.55	23.42	22.09	21.87	22.08
		108	54	22.56	26.59	**26.62**	20.60	24.62	24.59	22.15	25.91	25.89	20.68	24.47	24.32
		216	0	22.49	25.55	25.55	20.64	23.59	23.65	22.00	24.82	24.81	20.67	23.53	23.44
	64QAM	1	0	20.75	20.73	23.80	19.43	18.94	21.96	19.62	20.16	22.89	18.95	19.35	22.14
		1	1	20.80	21.09	25.00	18.89	19.12	22.82	19.64	20.01	23.81	19.04	19.21	23.23
		1	215	24.80	25.11	**25.15**	22.94	23.00	22.84	**24.62**	24.01	23.94	**23.63**	23.15	23.07
		1	216	24.10	23.92	24.00	21.54	21.70	22.07	23.11	23.31	23.02	22.40	22.19	22.14
		108	54	22.44	24.98	25.07	20.52	23.10	23.08	22.05	24.39	24.33	20.62	22.99	22.92
		216	0	22.47	25.03	25.03	20.59	23.07	**23.14**	21.99	24.27	24.35	20.65	22.95	22.93
	256QAM	1	0	19.77	19.83	23.21	21.57	18.05	21.31	18.60	19.09	22.34	16.95	17.12	20.79
		1	1	19.36	19.78	23.36	17.88	18.07	21.33	18.91	19.54	22.30	17.06	17.08	20.80
		1	215	23.12	23.46	23.41	21.53	21.47	**21.65**	22.82	22.63	22.64	**21.05**	20.75	20.78
		1	216	23.02	**23.53**	23.40	21.46	21.38	21.30	22.45	**22.86**	22.50	21.02	20.62	20.43
		108	54	20.97	22.95	23.06	19.08	21.01	**21.65**	20.57	22.27	22.28	19.12	20.99	20.87
		216	0	21.00	22.94	23.03	19.09	21.09	21.12	20.49	22.36	22.34	19.15	20.96	20.87

OUTPUT POWER FOR 5G NR n41 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				508200	518600	529000	508200	518600	529000	508200	518600	529000	508200	518600	529000
				2541.0	2593.0	2645.0	2541.0	2593.0	2645.0	2541.0	2593.0	2645.0	2541.0	2593.0	2645.0
90.0	BPSK	1	0	21.70	22.02	23.92	20.00	19.85	21.98	20.96	21.70	23.33	19.30	19.84	21.78
		1	1	21.88	22.17	27.52	19.95	19.98	25.63	21.09	21.66	26.84	19.48	19.85	24.19
		1	243	**27.59**	27.54	**27.59**	25.52	25.44	**25.70**	26.99	26.96	**27.20**	**24.37**	24.36	24.12
		1	244	23.93	24.01	24.27	21.90	22.08	22.26	23.55	23.36	23.37	21.90	21.79	21.71
		120	60	23.94	27.37	27.40	22.10	25.49	25.52	23.68	26.86	26.78	21.93	24.30	24.11
		243	0	23.92	26.84	26.90	22.11	25.00	25.00	23.55	26.38	26.35	21.94	24.24	24.07
	QPSK	1	0	21.47	21.50	23.86	19.59	19.51	22.09	20.51	21.05	23.28	18.93	19.41	21.75
		1	1	21.56	21.53	27.53	19.65	19.54	**25.70**	20.55	21.23	26.89	18.97	19.45	24.15
		1	243	**27.70**	27.48	27.63	25.45	25.31	25.65	27.07	26.95	**27.09**	**24.44**	24.34	24.11
		1	244	23.88	24.06	24.21	22.09	21.98	22.12	23.70	23.45	23.40	21.96	21.71	21.71
		120	60	22.96	27.31	27.45	21.02	25.45	25.57	22.67	26.85	26.83	20.92	24.30	24.08
		243	0	22.93	26.40	26.43	21.12	24.49	24.47	22.57	25.95	25.91	20.95	24.27	24.10
	16QAM	1	0	20.95	21.24	23.70	19.46	19.39	21.85	20.77	21.33	23.66	18.85	19.25	21.71
		1	1	21.15	21.25	26.23	19.38	19.24	24.26	20.82	21.46	25.95	18.89	19.31	24.11
		1	243	26.28	26.31	26.26	24.48	24.40	24.53	**26.10**	25.87	25.93	24.41	**24.70**	23.98
		1	244	23.72	23.76	23.92	21.79	21.68	21.98	23.54	23.62	23.45	21.88	21.60	21.68
		120	60	22.45	26.30	**26.48**	20.60	24.50	**24.60**	22.11	25.79	25.90	20.44	24.31	24.03
		243	0	22.45	25.34	25.45	20.64	23.52	23.49	22.01	24.93	24.91	20.46	23.29	23.19
	64QAM	1	0	20.66	20.67	23.66	18.91	18.72	21.92	19.71	20.36	22.82	18.72	19.06	21.63
		1	1	20.56	21.06	24.72	18.97	18.83	22.92	19.85	20.33	23.97	18.78	19.08	22.88
		1	243	24.96	**25.00**	24.96	23.01	22.86	**23.13**	24.04	24.13	24.15	**23.41**	23.28	23.25
		1	244	23.68	23.64	23.81	21.63	21.63	21.90	23.15	23.06	23.25	22.16	21.82	21.63
		120	60	22.50	24.80	24.98	20.54	23.00	23.05	22.19	24.37	**24.45**	20.40	22.78	22.54
		243	0	22.42	24.82	24.91	20.48	22.98	22.94	22.04	24.41	24.36	20.42	22.76	22.69
	256QAM	1	0	19.53	19.54	22.91	17.95	17.93	21.21	18.96	19.53	22.23	16.72	17.05	20.28
		1	1	19.84	20.17	22.59	17.98	17.79	21.47	19.02	19.25	22.49	16.82	16.98	20.28
		1	243	23.17	**23.52**	23.41	**21.70**	21.34	21.59	**22.95**	22.47	22.78	**20.84**	20.68	20.62
		1	244	23.22	23.32	23.16	21.45	21.38	21.13	22.54	22.66	22.56	20.78	20.28	20.27
		120	60	20.89	22.73	22.95	19.10	20.89	21.04	20.60	22.37	22.34	18.85	20.78	20.58
		243	0	20.90	22.89	22.87	19.07	20.95	21.08	20.55	22.38	22.32	18.88	20.80	20.65

OUTPUT POWER FOR 5G NR n41 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				509200	528600	528000	509200	528600	528000	509200	528600	528000	509200	528600	528000
				2546.0	2593.0	2640.0	2546.0	2593.0	2640.0	2546.0	2593.0	2640.0	2546.0	2593.0	2640.0
100.0	BPSK	1	0	21.93	21.92	23.86	19.99	20.00	21.92	20.96	21.54	23.37	19.38	19.88	21.73
		1	1	21.91	22.08	27.63	19.97	20.04	25.45	21.29	21.74	27.01	19.40	19.77	24.19
		1	271	27.49	27.63	27.66	**25.70**	25.47	25.60	27.06	27.01	**27.20**	**24.44**	24.33	24.17
		1	272	24.02	23.95	23.90	22.05	21.87	22.13	23.58	23.56	23.57	21.84	21.75	21.73
		135	67	23.98	27.34	**27.70**	22.03	25.42	25.42	23.80	26.91	26.86	21.86	24.29	24.15
		270	0	23.95	26.88	27.06	22.03	24.92	24.99	23.64	26.59	26.44	21.91	24.34	24.12
	QPSK	1	0	21.42	21.51	23.82	19.50	19.50	21.86	20.60	21.09	23.26	19.03	19.47	21.83
		1	1	21.43	21.53	27.45	19.51	19.48	25.52	20.66	21.22	27.04	19.08	19.36	**24.34**
		1	271	**27.67**	27.58	27.40	25.54	**25.55**	25.47	27.01	26.91	**27.08**	24.32	24.33	24.17
		1	272	24.07	24.10	23.95	22.02	21.96	21.93	23.50	23.52	23.47	21.91	21.72	21.76
		135	67	22.99	27.35	**27.67**	21.02	25.37	25.48	22.71	26.92	26.85	20.85	24.29	24.14
		270	0	22.92	26.39	26.52	21.01	24.39	24.46	22.58	26.05	25.88	20.93	24.30	24.15
	16QAM	1	0	21.17	21.38	23.36	19.17	19.45	21.77	20.55	21.38	23.50	19.17	19.35	21.59
		1	1	21.07	21.23	26.57	19.26	19.30	24.36	20.90	21.58	26.08	19.52	19.19	24.11
		1	271	26.51	26.18	**26.69**	24.22	24.32	24.41	26.13	25.92	**26.19**	24.60	**24.70**	24.04
		1	272	23.81	23.87	24.11	21.58	21.74	21.71	23.38	23.79	23.37	22.15	21.64	21.56
		135	67	22.46	26.37	26.58	20.46	24.37	**24.46**	22.21	25.93	25.88	20.36	24.31	24.10
		270	0	22.42	25.45	25.53	20.54	23.34	23.53	22.09	25.05	24.87	20.40	23.30	23.16
	64QAM	1	0	20.46	20.66	23.42	18.69	18.72	21.98	19.58	20.36	22.71	18.67	19.20	21.94
		1	1	20.69	20.63	24.39	18.62	18.81	22.82	19.66	20.17	24.23	18.88	19.08	23.17
		1	271	24.97	24.89	24.78	22.81	22.87	22.92	24.15	23.95	24.34	**23.60**	23.27	23.23
		1	272	23.72	23.74	23.64	21.87	21.88	21.82	23.01	23.20	23.12	22.25	22.03	22.02
		135	67	22.42	24.87	**25.06**	20.49	22.81	**22.96**	22.17	24.49	24.37	20.30	22.78	22.56
		270	0	22.38	24.92	24.99	20.43	22.80	22.95	22.14	**24.50**	24.40	20.38	23.10	22.69
	256QAM	1	0	19.37	19.52	23.12	17.72	17.97	21.01	18.92	19.54	22.57	16.83	17.11	20.52
		1	1	19.32	19.70	23.27	18.08	18.16	21.36	18.98	19.24	22.39	16.85	17.01	20.65
		1	271	23.27	23.26	23.31	**21.53**	21.39	21.45	22.93	**23.01**	22.60	**21.08**	20.70	20.52
		1	272	23.16	**23.52**	22.98	21.15	21.13	21.11	22.81	22.70	22.75	20.86	20.25	20.58
		135	67	20.98	22.86	23.11	19.00	20.87	21.03	20.65	22.49	22.41	18.81	20.75	20.63
		270	0	20.89	22.83	23.06	19.06	20.95	20.97	20.67	22.52	22.37	18.92	20.75	20.65

8.12. LTE BAND 48

Test Engineer ID:	10646	Test Date:	6/22/2021

OUTPUT POWER FOR LTE BAND 48 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55265	55990	56715	55260	55990	56715	55265	55990	56715	55260	55990	56715
				3552.5	3625.0	3697.5	3552.5	3625.0	3697.5	3552.5	3625.0	3697.5	3552.5	3625.0	3697.5
5.0	QPSK	1	0	25.47	**25.70**	25.41	22.90	22.94	**23.00**	24.93	25.16	24.92	22.40	22.43	22.24
		1	12	25.46	25.65	25.41	22.89	22.89	22.99	24.95	25.19	24.87	22.30	**22.50**	22.16
		1	24	25.53	**25.70**	25.44	22.95	22.95	22.95	25.01	**25.20**	24.92	22.39	22.41	22.27
		12	0	24.53	24.84	24.48	22.05	22.08	22.09	24.12	24.34	24.02	21.42	21.39	21.29
		12	6	24.58	24.82	24.49	22.06	22.05	22.07	24.08	24.35	24.03	21.45	21.43	21.26
		12	11	24.62	24.77	24.41	22.06	22.09	22.01	24.16	24.29	24.04	21.39	21.38	21.24
		25	0	24.52	24.80	24.47	22.03	22.11	21.97	24.16	24.30	24.03	21.40	21.38	21.27
	16QAM	1	0	24.85	**25.10**	24.80	22.30	22.42	22.36	24.50	24.59	24.29	21.79	21.81	21.59
		1	12	24.83	25.09	24.71	22.24	22.42	22.30	24.48	24.62	24.26	21.74	21.68	21.57
		1	24	24.78	25.08	24.78	22.20	**22.43**	22.39	24.56	**24.66**	24.25	**21.82**	21.75	21.57
		12	0	23.56	23.89	23.55	21.13	21.16	21.18	23.22	23.41	23.09	20.46	20.51	20.35
		12	6	23.68	23.87	23.57	21.11	21.16	21.21	23.19	23.45	23.06	20.47	20.57	20.33
		12	11	23.71	23.82	23.57	21.17	21.11	21.15	23.17	23.38	23.05	20.45	20.54	20.38
		25	0	23.56	23.86	23.46	21.03	21.10	21.03	23.22	23.34	23.04	20.44	20.37	20.28
	64QAM	1	0	23.56	24.36	23.78	21.02	21.59	21.43	23.68	23.65	23.07	21.05	20.84	20.32
		1	12	23.47	**24.47**	23.69	21.08	21.65	21.34	23.81	23.60	22.99	21.08	20.76	20.44
		1	24	23.61	24.40	23.62	21.06	**21.70**	21.36	**23.86**	23.69	23.01	**21.10**	20.81	20.28
		12	0	22.59	23.01	22.43	20.14	20.21	20.04	22.35	22.32	22.11	19.63	19.42	19.37
		12	6	22.66	22.93	22.47	20.07	20.17	20.01	22.36	22.35	22.07	19.60	19.35	19.27
		12	11	22.63	22.98	22.42	20.08	20.20	19.95	22.35	22.29	22.08	19.60	19.33	19.32
		25	0	22.61	22.86	22.32	20.07	20.08	19.98	22.22	22.20	22.11	19.45	19.30	19.30
	256QAM	1	0	20.97	21.23	20.89	18.50	18.50	18.51	20.59	20.67	20.53	**17.93**	17.82	17.77
		1	12	21.03	**21.48**	20.92	18.55	**18.95**	18.46	**20.97**	20.79	20.47	**17.93**	17.86	17.71
		1	24	21.01	21.33	20.82	18.42	18.52	18.49	20.69	20.68	20.48	17.92	17.85	17.82
		12	0	20.47	20.81	20.45	17.99	18.04	18.06	20.13	20.28	20.05	17.40	17.41	17.30
		12	6	20.57	20.78	20.42	18.02	18.00	18.02	20.07	20.30	20.01	17.33	17.45	17.24
		12	11	20.53	20.77	20.44	18.00	18.01	18.05	20.09	20.27	20.02	17.35	17.40	17.25
		25	0	20.57	20.82	20.43	18.10	18.09	18.04	20.16	20.27	19.95	17.38	17.48	17.25

OUTPUT POWER FOR LTE BAND 48 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55290	55990	56690	55290	55990	56690	55290	55990	56690	55290	55990	56690
				3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0	3555.0	3625.0	3695.0
10.0	QPSK	1	0	25.34	**25.70**	25.35	22.86	22.95	22.82	**25.20**	25.14	24.96	22.42	22.49	22.37
		1	24	25.36	25.62	25.24	22.70	22.90	22.77	25.06	25.13	24.78	22.38	22.42	22.32
		1	49	25.42	**25.70**	25.30	22.82	**23.00**	22.84	25.19	25.15	24.98	22.46	**22.50**	22.34
		25	0	24.60	24.70	24.43	22.02	22.02	21.91	24.20	24.34	23.99	21.63	21.59	21.39
		25	12	24.59	24.76	24.49	22.02	22.02	21.96	24.20	24.24	24.04	21.68	21.54	21.41
		25	24	24.58	24.69	24.41	22.06	21.98	21.99	24.18	24.29	24.04	21.65	21.48	21.46
		50	0	24.59	24.72	24.44	21.99	22.01	21.95	24.17	24.31	23.97	21.60	21.54	21.38
	16QAM	1	0	24.85	25.11	24.71	22.29	22.45	22.24	24.70	24.57	24.37	21.86	21.93	21.72
		1	24	24.75	25.12	24.59	22.13	22.32	22.17	24.48	24.50	24.30	21.84	**21.97**	21.72
		1	49	24.87	**25.27**	24.67	22.29	**22.53**	22.24	**24.75**	24.55	24.36	21.86	21.95	21.71
		25	0	23.61	23.84	23.46	20.97	21.09	20.98	23.26	23.29	23.02	20.62	20.64	20.38
		25	12	23.58	23.77	23.41	21.03	21.10	20.96	23.28	23.34	23.13	20.59	20.59	20.42
		25	24	23.59	23.77	23.40	20.98	21.08	20.99	23.30	23.34	23.11	20.54	20.60	20.44
		50	0	23.65	23.80	23.43	21.08	21.08	20.93	23.22	23.30	23.04	20.70	20.58	20.31
	64QAM	1	0	**24.21**	23.90	23.23	**21.52**	21.18	20.68	23.40	22.98	23.56	20.98	20.70	20.24
		1	24	24.14	23.93	23.16	21.50	21.12	20.75	23.40	23.00	23.55	21.04	20.70	20.08
		1	49	24.08	24.00	23.19	21.43	21.20	20.70	23.48	23.12	**23.75**	**21.07**	20.74	20.28
		25	0	22.55	22.66	22.49	20.00	19.94	19.94	22.18	22.38	22.06	19.61	19.47	19.44
		25	12	22.63	22.73	22.49	20.03	19.96	19.97	22.22	22.42	22.11	19.63	19.53	19.46
		25	24	22.58	22.70	22.46	19.98	19.91	20.05	22.17	22.34	22.08	19.61	19.43	19.51
		50	0	22.57	22.74	22.39	19.99	19.98	19.92	22.23	22.23	22.01	19.64	19.53	19.41
	256QAM	1	0	20.24	20.92	20.43	17.72	**18.33**	17.91	20.52	20.42	20.02	17.26	17.73	17.61
		1	24	20.25	20.88	20.35	17.68	18.18	17.93	**20.58**	20.24	19.89	17.41	17.61	17.40
		1	49	20.37	**21.00**	20.37	17.77	18.29	17.97	20.48	20.44	20.12	17.33	**17.96**	17.42
		25	0	20.67	20.68	20.42	18.05	17.98	17.90	20.21	20.29	20.11	17.70	17.51	17.39
		25	12	20.64	20.77	20.45	18.11	18.00	18.00	20.20	20.40	20.17	17.66	17.58	17.41
		25	24	20.62	20.71	20.36	18.07	18.00	17.98	20.19	20.31	20.15	17.71	17.46	17.43
		50	0	20.54	20.75	20.44	18.03	18.03	17.96	20.23	20.36	19.98	17.61	17.53	17.42

OUTPUT POWER FOR LTE BAND 48 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55315	55990	56665	55315	55990	56665	55315	55990	56665	55315	55990	56665
				3557.5	3625.0	3692.5	3557.5	3625.0	3692.5	3557.5	3625.0	3692.5	3557.5	3625.0	3692.5
15.0	QPSK	1	0	25.48	25.67	25.47	22.88	22.98	22.90	25.06	**25.20**	25.00	22.47	22.43	22.36
		1	37	25.41	25.62	25.39	22.77	22.89	22.90	24.96	25.10	24.97	22.34	22.33	22.27
		1	74	25.62	**25.70**	25.46	22.94	**23.00**	**23.00**	25.14	25.15	25.04	**22.50**	22.43	22.40
		36	0	24.61	24.93	24.62	22.10	22.09	22.04	24.17	24.30	24.11	21.60	21.54	21.38
		36	16	24.75	24.89	24.59	22.06	22.10	22.01	24.23	24.30	24.06	21.65	21.52	21.43
		36	35	24.69	24.85	24.56	22.08	22.04	22.07	24.21	24.31	24.09	21.61	21.50	21.40
		75	0	23.70	23.80	23.49	21.04	21.08	21.01	23.22	23.28	23.02	20.57	20.52	20.43
	16QAM	1	0	24.90	24.97	24.84	22.30	**22.42**	22.22	24.43	24.46	24.37	21.87	21.71	21.66
		1	37	24.95	24.97	24.79	22.26	22.37	22.40	24.52	24.42	24.41	21.86	21.82	21.76
		1	74	**25.03**	25.02	24.77	**22.42**	**22.42**	22.38	**24.60**	24.49	24.44	**21.93**	21.85	21.76
		36	0	23.63	23.82	23.53	21.10	21.13	21.07	23.14	23.30	23.10	20.55	20.61	20.40
		36	16	23.65	23.82	23.49	21.07	21.14	21.02	23.23	23.32	23.06	20.61	20.59	20.45
		36	35	23.67	23.80	23.42	21.04	21.11	21.03	23.26	23.29	23.10	20.58	20.53	20.43
		75	0	22.66	22.85	22.47	20.06	20.13	19.98	22.25	22.32	22.05	19.63	19.54	19.43
	64QAM	1	0	24.12	23.96	23.26	21.52	21.13	20.70	23.69	23.49	22.91	21.03	20.73	20.09
		1	37	24.17	23.95	23.19	21.52	21.21	20.73	23.80	23.50	22.82	21.13	20.71	20.13
		1	74	**24.29**	24.05	23.27	**21.65**	21.25	20.83	**23.86**	23.61	22.98	**21.22**	20.64	20.28
		36	0	22.69	22.86	22.61	20.17	20.08	20.08	22.28	22.28	22.18	19.70	19.55	19.47
		36	16	22.79	22.84	22.59	20.14	20.09	20.08	22.33	22.33	22.18	19.71	19.53	19.55
		36	35	22.73	22.82	22.58	20.13	20.07	20.16	22.32	22.32	22.18	19.67	19.49	19.52
		75	0	21.69	21.80	21.52	19.10	19.15	18.96	21.32	21.36	21.07	18.60	18.57	18.46
	256QAM	1	0	20.41	21.07	20.56	17.87	18.45	18.06	19.88	20.58	20.14	17.35	17.84	17.47
		1	37	20.34	21.05	20.48	17.88	18.38	18.10	19.90	20.56	20.12	17.29	17.77	17.48
		1	74	20.48	**21.18**	20.51	17.99	**18.49**	18.17	20.14	**20.71**	20.22	17.33	**17.92**	17.55
		36	0	20.63	20.83	20.57	18.11	18.09	18.07	20.20	20.28	20.14	17.69	17.53	17.48
		36	16	20.64	20.85	20.54	18.11	18.10	18.07	20.21	20.29	20.07	17.64	17.51	17.46
		36	35	20.66	20.78	20.46	18.07	18.10	18.18	20.19	20.23	20.11	17.54	17.44	17.49
		75	0	19.65	19.80	19.51	17.08	17.16	17.07	19.22	19.30	19.04	16.62	16.57	16.46

OUTPUT POWER FOR LTE BAND 48 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55340	55990	56640	55340	55990	56640	55340	55990	56640	55340	55990	56640
				3560.0	3625.0	3690.0	3560.0	3625.0	3690.0	3560.0	3625.0	3690.0	3560.0	3625.0	3690.0
20.0	QPSK	1	0	25.46	**25.70**	25.26	22.95	22.91	22.92	25.04	25.09	24.91	**22.50**	22.45	22.36
		1	49	25.37	25.61	25.15	22.94	22.80	22.88	24.96	25.13	24.80	22.44	22.45	22.25
		1	99	25.43	25.64	25.13	**23.00**	22.83	22.94	25.05	**25.20**	24.88	22.46	22.45	22.28
		50	0	24.53	24.57	24.34	21.89	22.00	21.93	24.01	24.12	23.94	21.50	21.51	21.38
		50	24	24.50	24.70	24.34	22.03	22.04	22.00	24.09	24.20	23.99	21.57	21.49	21.35
		50	49	24.49	24.61	24.24	22.00	22.05	22.02	24.10	24.17	23.95	21.54	21.47	21.39
		100	0	23.71	23.82	23.47	21.10	21.15	21.03	23.31	23.34	23.16	20.66	20.53	20.39
	16QAM	1	0	24.60	**25.05**	24.69	22.45	22.33	22.03	24.13	24.58	24.33	21.65	**21.95**	21.74
		1	49	24.47	24.97	24.50	22.35	22.20	21.96	24.07	24.58	24.19	21.56	21.85	21.62
		1	99	24.56	24.99	24.52	**22.46**	22.24	22.01	24.16	**24.60**	24.25	21.57	21.92	21.71
		50	0	23.53	23.64	23.34	20.98	21.01	20.96	23.13	23.13	22.95	20.55	20.55	20.38
		50	24	23.59	23.68	23.35	21.04	21.10	21.04	23.15	23.26	23.01	20.62	20.56	20.35
		50	49	23.55	23.66	23.30	21.07	21.05	21.05	23.16	23.18	22.96	20.60	20.51	20.38
		100	0	22.69	22.79	22.47	20.10	20.14	20.06	22.30	22.41	22.14	19.66	19.56	19.36
	64QAM	1	0	23.61	23.80	**23.95**	21.19	**21.56**	21.07	23.18	23.37	**23.55**	20.74	20.66	**20.98**
		1	49	23.65	23.78	23.77	21.07	21.48	21.10	23.30	23.31	23.46	20.75	20.73	20.91
		1	99	23.69	23.83	23.81	21.19	21.54	21.16	23.30	23.34	23.50	20.75	20.66	20.95
		50	0	22.56	22.65	22.40	20.02	20.05	19.95	22.09	22.18	22.00	19.55	19.56	19.44
		50	24	22.57	22.73	22.36	20.07	20.05	20.07	22.21	22.26	22.10	19.65	19.54	19.42
		50	49	22.54	22.69	22.34	20.06	20.04	20.02	22.16	22.25	22.01	19.58	19.48	19.45
		100	0	21.66	21.86	21.49	19.15	19.15	19.04	21.29	21.43	21.19	18.65	18.60	18.40
	256QAM	1	0	20.68	20.94	20.64	**18.44**	18.37	18.16	20.26	**20.55**	20.28	17.69	**17.86**	17.72
		1	49	20.59	20.94	20.51	18.33	18.24	18.11	20.27	20.47	20.21	17.69	17.80	17.66
		1	99	20.71	**20.99**	20.56	18.43	18.34	18.17	20.31	20.50	20.25	17.72	17.81	17.70
		50	0	20.61	20.54	20.32	17.99	17.97	17.99	20.09	20.13	19.95	17.56	17.50	17.37
		50	24	20.58	20.63	20.31	18.05	18.03	18.06	20.14	20.21	20.01	17.65	17.51	17.39
		50	49	20.53	20.62	20.28	18.08	18.01	18.01	20.15	20.21	19.98	17.58	17.51	17.42
		100	0	19.69	19.81	19.50	17.17	17.15	17.07	19.31	19.39	19.16	16.67	16.58	16.41

8.13. LTE BAND 66 AND 5G NR n66

LTE BAND 66

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
				1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3
1.4	QPSK	1	0	25.52	25.65	25.66	23.16	23.09	23.04	25.07	25.04	24.98	23.12	22.92	23.07
		1	2	25.58	**25.70**	**25.70**	**23.20**	23.10	23.09	**25.20**	25.04	25.03	**23.20**	22.99	23.18
		1	5	25.55	25.67	25.69	23.13	23.06	23.04	25.06	24.99	24.98	23.14	22.93	23.02
		3	0	25.58	25.55	25.63	23.10	23.02	23.06	25.03	24.99	24.96	23.14	22.90	22.97
		3	1	25.58	25.54	25.64	23.17	23.08	23.08	25.09	25.00	25.04	23.11	22.95	23.05
		3	2	25.55	25.60	25.64	23.13	23.05	23.08	24.97	25.05	24.96	23.18	22.91	23.03
		6	0	24.65	24.69	24.67	22.25	22.12	22.06	24.15	24.02	24.11	22.15	22.01	22.12
	16QAM	1	0	24.43	24.56	24.77	22.28	22.26	22.47	24.20	24.49	24.19	22.59	22.08	22.23
		1	2	24.59	24.55	24.88	22.30	22.24	**22.67**	24.20	**24.68**	24.22	**22.77**	22.16	22.17
		1	5	24.44	24.55	24.72	22.27	22.25	22.49	24.24	24.47	24.18	22.56	22.05	22.23
		3	0	24.72	24.70	24.81	22.48	22.20	22.31	24.15	24.31	24.26	22.35	22.23	22.14
		3	1	24.82	24.63	**24.92**	22.52	22.21	22.34	24.16	24.31	24.38	22.41	22.28	22.19
		3	2	24.80	24.70	24.87	22.48	22.22	22.35	24.19	24.31	24.34	22.37	22.33	22.19
		6	0	23.79	23.74	23.55	21.45	21.26	21.02	23.23	23.02	23.30	21.14	21.20	21.23
	64QAM	1	0	23.68	23.93	23.59	21.53	21.63	21.23	**23.67**	23.22	23.39	21.29	21.37	21.59
		1	2	23.77	**24.00**	23.68	21.55	**21.69**	21.35	23.66	23.31	23.40	21.30	21.40	**21.67**
		1	5	23.71	23.95	23.57	21.53	21.61	21.23	23.58	23.13	23.39	21.29	21.39	21.59
		3	0	23.46	23.90	23.77	21.23	21.38	21.26	23.47	23.15	23.10	21.36	21.05	21.45
		3	1	23.46	23.89	23.75	21.28	21.50	21.32	23.41	23.29	23.08	21.37	21.04	21.37
		3	2	23.51	23.94	23.76	21.27	21.45	21.30	23.49	23.27	23.06	21.35	20.99	21.40
		6	0	22.74	22.57	23.03	20.36	20.07	20.48	22.12	22.41	22.22	20.51	20.07	20.08
	256QAM	1	0	20.47	20.65	20.34	18.16	18.20	17.93	20.20	19.88	20.03	18.04	17.95	18.18
		1	2	20.49	20.67	20.40	18.24	18.27	17.93	**20.28**	19.91	20.11	18.06	18.03	18.22
		1	5	20.44	20.62	20.31	18.12	18.17	17.94	20.15	19.89	19.99	18.03	17.98	18.16
		3	0	20.61	20.66	20.74	18.28	18.15	18.26	20.15	20.24	20.10	18.32	18.09	18.22
		3	1	20.74	20.72	**20.79**	18.32	18.24	18.21	20.21	20.17	20.18	**18.33**	18.14	18.22
		3	2	20.71	20.70	20.66	**18.35**	18.19	18.16	20.19	20.15	20.20	18.29	18.15	18.21
		6	0	20.73	20.64	20.64	18.29	18.07	18.04	20.13	20.07	20.16	18.20	18.12	18.10

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
				1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5
3.0	QPSK	1	0	**25.70**	25.65	25.68	**23.20**	23.01	23.01	25.07	25.00	**25.20**	23.17	23.03	23.16
		1	7	25.61	25.55	25.60	23.09	22.88	22.88	24.96	24.97	25.09	23.07	23.01	23.06
		1	14	25.69	25.62	**25.70**	23.18	23.03	22.99	25.08	25.03	25.14	23.18	23.06	**23.20**
		8	0	24.74	24.72	24.80	22.19	22.08	22.10	24.17	24.11	24.18	22.27	22.18	22.19
		8	4	24.69	24.76	24.81	22.21	22.13	22.12	24.20	24.14	24.18	22.34	22.18	22.21
		8	7	24.70	24.68	24.75	22.21	22.12	22.04	24.20	24.06	24.17	22.30	22.12	22.18
		15	0	24.71	24.74	24.80	22.23	22.09	22.09	24.19	24.16	24.22	22.30	22.17	22.24
	16QAM	1	0	**24.82**	24.63	24.51	**22.70**	22.23	22.04	24.26	24.07	**24.64**	22.41	22.15	**22.67**
		1	7	24.72	24.58	24.46	22.64	22.13	22.10	24.20	24.09	24.63	22.34	22.16	22.65
		1	14	24.79	24.60	24.43	22.65	22.19	22.00	24.24	24.03	24.61	22.38	22.10	22.62
		8	0	23.80	23.76	23.85	21.30	21.14	21.19	23.22	23.21	23.26	21.40	21.25	21.30
		8	4	23.79	23.76	23.87	21.31	21.19	21.18	23.31	23.25	23.25	21.39	21.25	21.28
		8	7	23.75	23.71	23.83	21.31	21.14	21.19	23.19	23.24	23.26	21.37	21.29	21.29
		15	0	23.70	23.70	23.82	21.26	21.08	21.15	23.18	23.18	23.19	21.28	21.22	21.27
	64QAM	1	0	23.55	23.63	**23.82**	21.30	21.38	21.31	23.37	23.39	23.36	**21.59**	21.52	21.36
		1	7	23.47	23.60	23.72	**21.39**	21.31	**21.39**	23.37	**23.45**	23.41	**21.59**	21.53	21.46
		1	14	23.56	23.66	23.78	21.35	21.32	**21.39**	23.35	23.44	23.28	21.53	21.52	21.35
		8	0	22.80	22.64	22.88	20.26	20.03	20.21	22.16	22.26	22.29	20.29	20.32	20.30
		8	4	22.72	22.66	22.82	20.32	20.05	20.20	22.14	22.24	22.30	20.29	20.32	20.28
		8	7	22.75	22.63	22.87	20.31	20.07	20.22	22.13	22.23	22.26	20.29	20.28	20.26
		15	0	22.75	22.77	22.79	20.31	20.19	20.10	22.25	22.13	22.26	20.42	20.17	20.28
	256QAM	1	0	20.26	20.38	**21.19**	18.05	17.97	**18.69**	19.97	20.71	19.96	18.20	**18.84**	18.04
		1	7	20.29	20.43	21.09	17.98	17.93	18.66	20.08	20.70	19.97	18.33	18.79	18.12
		1	14	20.35	20.48	21.17	17.98	18.01	18.68	20.10	**20.72**	19.93	18.28	18.81	17.94
		8	0	20.72	20.78	20.81	18.22	18.17	18.13	20.29	20.23	20.15	18.42	18.28	18.19
		8	4	20.67	20.76	20.77	18.17	18.06	18.14	20.23	20.21	20.15	18.37	18.24	18.17
		8	7	20.69	20.74	20.84	18.16	18.12	18.18	20.24	20.23	20.14	18.43	18.25	18.21
		15	0	20.81	20.73	20.79	18.33	18.14	18.03	20.19	20.14	20.29	18.41	18.18	18.34

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
				1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
5.0	QPSK	1	0	25.39	25.49	25.65	23.11	23.06	23.04	25.06	25.09	**25.20**	23.09	23.09	23.05
		1	12	25.43	25.49	**25.70**	23.16	23.07	**23.20**	25.08	25.10	25.17	**23.20**	23.05	23.16
		1	24	25.41	25.41	25.58	23.05	23.02	23.13	25.03	25.04	25.11	23.14	23.08	23.06
		12	0	24.42	24.53	24.57	22.17	22.05	22.05	24.13	24.09	24.15	22.21	22.07	22.14
		12	6	24.52	24.55	24.62	22.22	22.14	22.08	24.19	24.14	24.17	22.22	22.09	22.14
		12	11	24.47	24.53	24.54	22.16	22.08	22.05	24.09	24.08	24.13	22.18	22.08	22.11
		25	0	24.53	24.46	24.54	22.15	22.05	22.05	24.12	24.07	24.13	22.20	22.10	22.08
	16QAM	1	0	**24.73**	24.39	24.45	22.58	22.14	22.18	24.53	24.12	24.30	22.28	22.26	22.57
		1	12	24.68	24.27	24.52	**22.66**	22.25	22.22	**24.57**	24.23	24.32	22.40	22.21	**22.60**
		1	24	24.69	24.35	24.41	22.63	22.06	22.18	24.54	24.14	24.27	22.28	22.25	22.53
		12	0	23.53	23.58	23.62	21.34	21.14	21.14	23.30	23.17	23.23	21.30	21.15	21.31
		12	6	23.60	23.60	23.65	21.41	21.18	21.19	23.32	23.17	23.32	21.34	21.21	21.34
		12	11	23.61	23.51	23.61	21.36	21.17	21.17	23.27	23.17	23.23	21.32	21.20	21.30
		25	0	23.53	23.47	23.55	21.23	21.04	21.07	23.16	23.05	23.16	21.18	21.14	21.21
	64QAM	1	0	23.58	23.56	23.22	**21.59**	21.37	21.05	23.43	23.29	23.12	21.42	21.07	21.44
		1	12	**23.64**	**23.64**	23.23	21.53	21.47	21.08	23.49	23.44	23.13	21.58	21.13	**21.62**
		1	24	23.55	23.57	23.13	21.48	21.34	21.04	**23.50**	23.33	23.11	21.43	21.07	21.53
		12	0	22.38	22.53	22.58	20.16	20.21	20.07	22.12	22.22	22.19	20.32	20.12	20.13
		12	6	22.49	22.61	22.64	20.20	20.20	20.11	22.13	22.23	22.20	20.38	20.17	20.13
		12	11	22.42	22.55	22.60	20.16	20.16	20.08	22.10	22.12	22.19	20.28	20.12	20.12
		25	0	22.45	22.47	22.55	20.15	20.05	20.00	22.09	22.12	22.10	20.24	20.04	20.12
	256QAM	1	0	20.38	20.00	20.10	18.29	17.89	17.71	20.22	19.85	19.85	18.00	17.77	18.35
		1	12	20.59	20.23	20.08	**18.48**	18.04	17.74	**20.43**	20.01	19.84	18.11	17.82	**18.48**
		1	24	20.46	20.05	20.08	18.25	17.85	17.71	20.17	19.92	19.76	18.06	17.75	18.24
		12	0	20.51	20.56	20.52	18.26	18.18	18.05	20.25	20.20	20.14	18.34	18.11	18.21
		12	6	20.60	**20.62**	20.53	18.27	18.18	18.06	20.29	20.24	20.16	18.39	18.14	18.27
		12	11	20.53	20.58	20.50	18.25	18.20	18.02	20.23	20.19	20.13	18.34	18.10	18.26
		25	0	20.51	20.50	20.48	18.18	18.10	18.06	20.16	20.15	20.11	18.23	18.11	18.14

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
				1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
10.0	QPSK	1	0	**25.70**	25.59	25.65	**23.20**	22.94	22.98	25.12	25.09	**25.20**	23.18	23.15	**23.20**
		1	24	25.61	25.58	25.65	23.13	22.97	22.98	25.06	25.07	25.17	23.13	23.10	23.13
		1	49	25.64	25.51	25.63	23.14	22.95	23.04	25.05	25.06	25.13	23.15	23.19	23.18
		25	0	24.67	24.69	24.78	22.28	22.11	22.02	24.24	24.12	24.19	22.35	22.23	22.20
		25	12	24.72	24.78	24.78	22.26	22.14	22.16	24.24	24.22	24.19	22.33	22.23	22.30
		25	24	24.69	24.70	24.79	22.20	22.13	22.10	24.17	24.14	24.21	22.30	22.21	22.23
		50	0	24.70	24.73	24.77	22.24	22.12	22.02	24.23	24.19	24.16	22.32	22.22	22.18
	16QAM	1	0	**24.73**	24.60	24.48	**22.63**	22.11	22.05	24.26	24.19	**24.66**	22.36	22.19	**22.65**
		1	24	24.67	24.50	24.45	22.60	22.09	21.98	24.14	24.09	24.65	22.29	22.12	22.63
		1	49	24.70	24.49	24.39	22.59	22.11	22.03	24.14	24.12	24.59	22.29	22.15	22.63
		25	0	23.75	23.75	23.79	21.33	21.22	21.07	23.31	23.16	23.26	21.41	21.28	21.24
		25	12	23.76	23.82	23.80	21.27	21.24	21.20	23.33	23.21	23.28	21.41	21.28	21.31
		25	24	23.73	23.78	23.81	21.28	21.20	21.17	23.29	23.15	23.24	21.40	21.25	21.31
		50	0	23.74	23.76	23.72	21.27	21.14	20.99	23.25	23.16	23.19	21.37	21.19	21.19
	64QAM	1	0	23.69	**23.77**	23.74	21.31	21.25	21.33	23.40	23.44	23.41	**21.56**	21.54	21.36
		1	24	23.63	23.70	**23.77**	21.40	21.30	21.40	23.37	23.43	23.43	21.50	21.53	21.47
		1	49	23.62	23.66	23.73	**21.41**	21.32	21.39	23.32	**23.45**	23.40	21.43	21.51	21.40
		25	0	22.78	22.80	22.82	20.37	20.26	20.08	22.32	22.19	22.26	20.43	20.27	20.29
		25	12	22.82	22.85	22.83	20.37	20.24	20.20	22.33	22.28	22.32	20.44	20.30	20.43
		25	24	22.80	22.80	22.83	20.32	20.23	20.21	22.32	22.25	22.35	20.39	20.28	20.35
		50	0	22.80	22.75	22.76	20.32	20.20	20.08	22.23	22.19	22.24	20.35	20.25	20.24
	256QAM	1	0	20.34	20.48	21.13	17.97	17.98	18.66	20.16	**20.78**	20.01	18.28	**18.84**	18.03
		1	24	20.30	20.40	**21.15**	18.02	18.07	**18.72**	20.15	20.75	20.05	18.26	18.83	18.09
		1	49	20.33	20.43	21.12	18.02	18.04	18.67	20.12	20.71	20.01	18.25	18.82	18.07
		25	0	20.72	20.77	20.75	18.33	18.24	18.08	20.39	20.12	20.23	18.47	18.27	18.28
		25	12	20.79	20.82	20.74	18.31	18.28	18.19	20.36	20.24	20.24	18.47	18.32	18.34
		25	24	20.73	20.80	20.81	18.27	18.21	18.14	20.34	20.20	20.24	18.37	18.28	18.29
		50	0	20.73	20.75	20.78	18.22	18.13	18.06	20.25	20.22	20.15	18.36	18.26	18.20

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	QPSK	1	0	25.60	25.65	25.61	23.18	23.07	23.04	25.15	**25.20**	25.16	**23.20**	22.95	23.10
		1	37	25.61	**25.70**	25.65	23.19	23.16	23.02	25.13	25.16	25.17	**23.20**	23.02	23.10
		1	74	25.60	25.64	25.66	23.14	**23.20**	23.04	25.12	25.17	25.12	23.06	23.08	23.18
		36	0	24.65	24.67	24.68	22.31	22.15	22.07	24.20	24.15	24.21	22.21	22.11	22.10
		36	16	24.72	24.77	24.72	22.35	22.22	22.12	24.31	24.23	24.22	22.26	22.14	22.13
		36	35	24.67	24.72	24.80	22.27	22.21	22.19	24.26	24.18	24.27	22.22	22.16	22.19
		75	0	24.66	24.69	24.68	22.26	22.14	22.07	24.23	24.18	24.18	22.22	22.10	22.05
	16QAM	1	0	24.69	24.92	24.33	22.65	22.53	22.04	24.63	24.55	24.16	22.22	22.49	**22.57**
		1	37	24.69	**24.99**	24.41	**22.69**	22.58	22.08	**24.66**	24.62	24.18	22.19	22.53	22.51
		1	74	24.67	24.89	24.36	22.62	22.66	22.13	24.60	24.55	24.14	22.07	22.54	22.56
		36	0	23.66	23.65	23.64	21.38	21.17	21.11	23.29	23.14	23.18	21.28	21.13	21.09
		36	16	23.74	23.76	23.71	21.40	21.18	21.10	23.35	23.27	23.24	21.27	21.17	21.10
		36	35	23.69	23.69	23.80	21.32	21.20	21.18	23.28	23.18	23.28	21.21	21.15	21.16
		75	0	23.70	23.68	23.67	21.33	21.19	21.08	23.32	23.21	23.17	21.21	21.15	21.07
	64QAM	1	0	23.57	24.00	23.60	21.38	21.59	21.40	23.37	23.73	23.52	21.49	21.29	21.69
		1	37	23.54	**24.03**	23.77	21.45	21.70	21.44	23.36	23.69	23.56	21.49	21.28	21.69
		1	74	23.60	23.96	23.73	21.37	**21.79**	21.45	23.36	**23.74**	23.51	21.45	21.36	**21.72**
		36	0	22.71	22.71	22.73	20.40	20.23	20.13	22.29	22.22	22.26	20.31	20.23	20.14
		36	16	22.80	22.82	22.79	20.43	20.26	20.17	22.38	22.27	22.28	20.31	20.26	20.16
		36	35	22.78	22.74	22.83	20.36	20.23	20.24	22.34	22.24	22.33	20.28	20.24	20.21
		75	0	22.71	22.77	22.70	20.31	20.21	20.11	22.28	22.25	22.21	20.24	20.13	20.12
	256QAM	1	0	20.23	20.83	21.00	17.99	18.44	18.65	20.02	20.53	20.74	**18.76**	17.95	18.44
		1	37	20.28	20.86	21.03	18.09	18.52	18.70	20.05	20.58	**20.82**	18.20	18.66	18.00
		1	74	20.24	20.80	**21.06**	18.06	18.51	**18.71**	20.01	20.51	20.78	18.48	18.72	17.96
		36	0	20.65	20.67	20.67	18.33	18.17	18.14	20.23	20.17	20.24	18.31	18.19	18.12
		36	16	20.71	20.75	20.71	18.33	18.22	18.16	20.31	20.27	20.29	18.31	18.21	18.16
		36	35	20.65	20.70	20.77	18.29	18.19	18.20	20.29	20.23	20.31	18.27	18.20	18.19
		75	0	20.69	20.71	20.67	18.27	18.16	18.11	20.29	20.22	20.24	18.27	18.15	18.12

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	QPSK	1	0	25.57	**25.70**	25.53	**23.20**	23.01	23.05	**25.20**	25.13	25.16	18.28	23.10	23.16
		1	49	25.43	25.63	25.52	23.10	23.05	23.04	25.09	25.04	25.19	**23.20**	23.06	23.19
		1	99	25.52	25.56	25.55	23.07	23.06	23.09	25.15	25.11	25.11	23.18	**23.20**	23.17
		50	0	24.52	24.59	24.53	22.17	22.11	22.03	24.21	24.12	24.15	22.33	22.18	22.21
		50	24	24.60	24.68	24.67	22.23	22.17	22.12	24.26	24.20	24.16	22.33	22.23	22.27
		50	49	24.57	24.58	24.66	22.17	22.14	22.08	24.21	24.18	24.21	22.26	22.24	22.25
		100	0	24.56	24.62	24.63	22.22	22.10	22.11	24.24	24.17	24.10	22.30	22.19	22.23
	16QAM	1	0	24.78	24.66	24.79	22.60	22.57	22.49	24.62	24.71	24.65	22.68	**22.70**	22.61
		1	49	24.73	24.57	24.83	22.55	22.62	22.45	24.52	**24.74**	24.61	22.60	22.68	22.62
		1	99	24.83	24.57	**24.85**	22.51	**22.74**	22.46	24.57	**24.74**	24.59	22.62	**22.70**	22.64
		50	0	23.57	23.55	23.55	21.15	21.13	21.08	23.15	23.17	23.17	21.29	21.23	21.21
		50	24	23.60	23.61	23.70	21.22	21.19	21.14	23.21	23.23	23.16	21.27	21.28	21.28
		50	49	23.59	23.55	23.67	21.14	21.17	21.11	23.17	23.17	23.23	21.25	21.24	21.27
		100	0	23.56	23.64	23.66	21.22	21.17	21.08	23.22	23.21	23.15	21.33	21.27	21.27
	64QAM	1	0	23.97	23.55	23.65	21.44	21.40	21.67	23.45	23.55	23.77	21.55	21.62	21.84
		1	49	23.91	23.48	23.72	21.40	21.52	21.72	23.31	23.51	**23.84**	21.52	21.53	**21.89**
		1	99	**23.99**	23.46	23.76	21.40	21.53	**21.74**	23.45	23.55	23.80	21.49	21.63	21.85
		50	0	22.56	22.61	22.63	20.21	20.21	20.09	22.23	22.22	22.19	20.35	20.27	20.22
		50	24	22.62	22.70	22.76	20.28	20.27	20.16	22.29	22.28	22.23	20.35	20.30	20.30
		50	49	22.60	22.59	22.71	20.21	20.25	20.14	22.25	22.27	22.27	20.32	20.32	20.29
		100	0	22.58	22.63	22.67	20.26	20.17	20.11	22.28	22.21	22.17	20.31	20.25	20.28
	256QAM	1	0	20.54	20.44	20.54	18.15	18.27	18.22	20.23	**20.43**	20.30	18.31	18.47	18.38
		1	49	20.50	20.41	20.58	18.17	18.31	18.24	20.14	20.35	20.33	18.27	18.40	18.43
		1	99	20.53	20.40	20.59	18.15	**18.41**	18.24	20.18	20.39	20.35	18.26	**18.51**	18.45
		50	0	20.55	20.58	20.53	18.21	18.13	18.06	20.22	20.16	20.20	18.35	18.24	18.24
		50	24	20.60	**20.66**	20.63	18.27	18.29	18.16	20.30	20.24	20.19	18.36	18.29	18.32
		50	49	20.54	20.57	20.62	18.22	18.18	18.12	20.23	20.20	20.23	18.33	18.26	18.29
		100	0	20.58	20.63	20.59	18.26	18.13	18.15	20.29	20.21	20.17	18.32	18.20	18.29

5G NR n66

Test Engineer ID:		Test Date:	Click or tap to enter a date.

OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
				1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
5.0	BPSK	1	0	24.60	24.72	24.76	22.55	22.64	22.55	24.56	24.51	24.28	22.68	22.22	22.07
		1	1	25.24	**25.70**	25.55	23.01	23.13	23.12	25.10	25.19	**25.20**	22.74	22.39	23.00
		1	23	25.50	25.33	25.61	23.13	22.99	**23.20**	24.98	24.87	24.76	**23.20**	22.53	22.67
		1	24	24.81	24.67	24.89	22.43	22.46	22.52	24.53	24.65	24.28	21.96	22.13	22.17
		12	6	25.27	25.44	25.43	23.12	22.94	23.08	24.79	24.70	24.72	22.96	22.62	22.83
		25	0	24.64	24.78	24.82	22.59	22.58	22.49	24.14	24.09	24.10	22.38	22.00	22.08
	QPSK	1	0	24.30	24.41	24.33	22.39	22.27	22.31	24.05	23.90	23.89	21.71	21.18	21.70
		1	1	**25.57**	25.41	25.44	23.07	23.08	23.13	**25.16**	24.88	25.00	22.90	22.61	22.70
		1	23	25.22	25.37	25.40	23.16	**23.19**	23.15	25.03	25.03	24.88	22.74	22.60	23.06
		1	24	24.53	24.34	24.37	22.35	22.04	22.19	23.85	24.02	23.86	21.53	21.48	21.68
		12	6	25.28	25.41	25.43	23.06	22.97	22.99	24.77	24.71	24.72	**23.10**	22.46	22.70
		25	0	24.27	24.48	24.45	22.17	22.12	22.10	23.70	23.66	23.65	21.92	21.51	21.75
	16QAM	1	0	23.16	23.20	23.26	21.29	21.27	21.28	23.26	22.89	22.98	20.69	20.57	20.73
		1	1	24.07	**24.39**	24.21	22.15	22.17	22.19	**24.08**	23.95	23.86	21.97	21.67	21.60
		1	23	24.07	24.04	24.13	22.17	22.23	**22.29**	23.98	23.47	24.01	21.91	21.70	21.64
		1	24	23.23	23.11	23.19	21.67	21.28	21.34	22.93	23.10	22.83	20.78	20.77	20.50
		12	6	24.27	24.22	24.36	22.11	22.12	22.06	23.62	23.66	23.69	**22.05**	21.51	21.91
		25	0	23.21	23.27	23.33	21.12	21.15	21.10	22.68	22.60	22.61	20.86	20.37	20.81
	64QAM	1	0	23.07	22.93	22.87	20.68	20.72	20.60	22.24	22.07	22.26	20.97	20.37	20.65
		1	1	22.81	23.02	**23.12**	20.73	20.62	20.62	22.34	22.08	**22.51**	20.80	20.28	21.00
		1	23	22.95	22.92	23.09	**20.79**	20.52	20.57	22.22	22.07	21.88	20.82	20.20	20.53
		1	24	22.98	22.91	22.94	20.67	20.68	20.65	22.26	22.26	22.17	**21.01**	20.25	20.49
		12	6	22.83	22.83	23.04	20.58	20.53	20.48	22.18	22.02	22.13	20.70	19.98	20.42
		25	0	22.71	22.84	22.76	20.57	20.49	20.51	22.17	22.11	22.18	20.46	19.96	20.33
	256QAM	1	0	21.01	21.17	21.07	18.75	18.76	18.67	20.54	20.37	20.39	18.27	17.60	18.04
		1	1	20.86	21.11	21.00	18.51	18.49	18.43	20.46	**20.55**	20.21	18.37	17.99	18.02
		1	23	21.04	20.98	21.02	18.74	18.48	18.39	20.25	20.04	20.37	18.20	17.98	17.77
		1	24	20.90	20.83	**21.23**	**18.82**	18.57	18.60	20.36	20.22	20.27	17.79	17.82	17.59
		12	6	20.85	21.04	21.04	18.78	18.66	18.57	20.24	20.19	20.06	**18.48**	17.73	18.24
		25	0	20.86	20.87	20.77	18.77	18.57	18.52	20.24	20.23	20.11	18.41	17.64	18.39

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
				1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
10.0	BPSK	1	0	25.00	24.86	25.01	22.48	22.61	22.53	24.57	24.53	24.38	22.29	21.50	22.20
		1	1	25.39	**25.56**	25.40	23.01	23.11	23.03	24.95	25.11	24.86	**23.20**	22.76	22.89
		1	50	25.35	25.35	25.55	**23.20**	22.97	23.11	24.97	**25.12**	24.97	22.81	22.16	22.84
		1	51	24.65	24.96	24.79	22.42	22.38	22.48	24.85	24.39	24.69	22.45	22.03	22.31
		25	12	25.27	25.34	25.43	23.06	22.98	22.98	24.65	24.71	24.75	22.96	22.19	22.75
		50	0	24.76	24.88	24.93	21.37	20.69	22.45	22.47	22.32	24.21	22.57	22.15	22.28
	QPSK	1	0	24.40	24.42	24.44	22.24	22.22	22.29	24.05	24.03	23.73	22.05	21.68	22.07
		1	1	25.45	25.38	25.48	22.93	23.04	23.09	24.91	25.04	**25.20**	22.72	22.43	**22.96**
		1	50	25.21	25.17	**25.70**	**23.15**	23.06	23.06	25.12	25.11	25.05	22.89	22.49	22.75
		1	51	24.33	24.44	24.58	22.28	21.97	22.16	23.83	24.13	23.98	22.10	21.88	21.59
		25	12	25.39	25.54	25.52	23.07	23.00	22.97	24.83	24.75	24.83	22.90	22.56	22.79
		50	0	24.27	24.34	24.46	22.16	22.00	22.03	23.75	23.70	23.69	22.00	21.52	21.83
	16QAM	1	0	23.31	23.18	23.46	21.37	21.21	21.39	23.33	23.24	22.88	20.76	21.18	20.81
		1	1	24.40	24.15	24.29	22.61	22.00	22.17	24.43	**24.50**	23.93	22.08	21.80	21.78
		1	50	24.26	24.30	**24.55**	**22.63**	22.21	22.26	24.35	24.07	24.19	**22.28**	21.55	21.26
		1	51	23.16	23.26	23.25	21.57	21.27	21.31	23.00	23.08	23.00	20.80	20.67	20.86
		25	12	24.24	24.42	24.43	22.11	22.09	21.96	23.73	23.63	23.76	21.95	21.54	21.63
		50	0	23.32	22.36	23.46	21.10	20.96	20.97	22.72	22.75	22.74	21.07	20.55	20.90
	64QAM	1	0	22.84	23.01	23.00	20.57	20.58	20.59	22.22	22.47	22.04	20.71	20.39	20.66
		1	1	23.05	23.01	23.14	**20.71**	20.54	20.52	22.46	22.45	22.19	20.65	20.01	20.81
		1	50	22.97	22.91	22.86	20.66	20.41	20.54	22.27	22.33	22.38	20.64	20.11	20.55
		1	51	22.86	22.90	**23.17**	20.57	20.61	20.61	**22.54**	22.40	22.11	20.72	20.88	**21.06**
		25	12	22.82	22.96	22.85	20.59	20.45	20.46	22.24	22.13	22.27	20.59	20.11	20.40
		50	0	22.82	22.91	22.93	20.59	20.41	20.49	22.23	22.26	22.29	20.56	20.16	20.32
	256QAM	1	0	21.24	20.78	21.25	18.46	18.51	18.52	20.38	20.49	20.43	18.14	18.10	18.09
		1	1	21.05	**21.27**	21.14	18.58	18.48	18.41	20.26	**20.75**	20.56	**22.03**	17.98	17.78
		1	50	21.07	20.96	21.10	18.41	18.37	18.34	20.64	20.40	20.47	18.01	17.65	17.36
		1	51	21.09	20.92	21.21	18.50	18.60	18.49	20.43	20.63	20.32	18.20	17.80	18.10
		25	12	20.90	20.98	20.90	**18.61**	18.41	18.43	20.28	20.28	20.37	18.56	17.76	18.39
		50	0	20.81	20.91	20.92	18.59	18.47	18.52	20.18	20.23	20.20	18.54	17.87	18.31

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	BPSK	1	0	25.09	25.35	24.89	22.67	22.65	22.48	24.53	24.36	24.36	22.33	22.31	22.81
		1	1	25.59	**25.63**	25.52	23.00	23.08	23.01	**24.97**	24.94	24.95	23.16	22.65	22.78
		1	77	25.53	25.49	25.50	23.02	23.16	**23.20**	24.67	24.94	24.92	**23.20**	23.01	22.90
		1	78	25.17	25.08	25.06	22.55	22.59	22.39	24.51	24.57	24.72	22.63	22.33	22.85
		36	18	25.44	25.47	25.29	22.97	22.91	22.81	24.84	24.70	24.72	23.14	22.65	22.92
		75	0	24.88	25.02	24.84	22.53	22.43	22.28	24.25	24.26	24.18	22.47	22.49	22.45
	QPSK	1	0	24.61	24.61	24.58	22.17	22.08	22.14	23.98	24.02	23.84	21.64	21.48	22.13
		1	1	25.68	**25.70**	25.46	23.08	22.97	22.92	25.08	25.07	25.12	22.79	21.79	22.91
		1	77	25.46	25.51	25.68	23.01	23.05	**23.18**	24.88	25.14	**25.20**	22.97	22.62	23.09
		1	78	24.70	24.49	24.69	22.21	22.07	22.03	24.00	24.18	23.91	22.47	21.97	21.89
		36	18	25.35	25.49	25.43	22.95	22.92	22.83	24.80	24.82	24.73	**23.14**	22.71	22.98
		75	0	24.42	24.56	24.43	22.11	21.96	21.95	23.83	23.74	23.71	22.21	21.53	21.99
	16QAM	1	0	23.52	23.38	23.54	21.30	21.19	21.15	23.05	22.89	23.09	21.29	21.14	20.72
		1	1	**24.73**	24.32	24.45	**22.42**	21.94	22.41	**24.13**	24.10	24.02	22.15	21.86	22.04
		1	77	24.62	24.36	24.28	22.21	22.38	22.31	23.78	24.03	24.07	**22.59**	21.73	22.33
		1	78	23.35	23.56	23.45	21.28	21.36	21.27	23.23	22.83	22.80	20.98	21.06	20.75
		36	18	24.37	24.49	24.42	21.98	21.94	21.97	23.81	23.88	23.75	22.26	21.62	21.85
		75	0	23.54	23.64	23.52	21.08	21.08	20.97	22.76	22.81	22.75	21.04	20.68	20.99
	64QAM	1	0	23.27	23.09	23.10	20.54	20.37	**20.66**	**22.61**	21.90	22.22	20.77	20.02	21.03
		1	1	23.45	23.27	23.21	20.50	20.47	20.63	22.04	22.37	22.15	**21.50**	20.21	20.62
		1	77	**23.49**	23.08	23.06	20.55	20.57	20.51	22.23	22.17	22.12	20.95	20.39	21.05
		1	78	23.19	23.04	23.23	20.36	20.53	20.54	22.30	22.03	22.13	21.23	20.29	20.53
		36	18	22.88	23.06	22.91	20.57	20.40	20.41	22.21	22.29	22.26	20.64	20.15	20.52
		75	0	22.97	23.08	22.87	20.59	20.58	20.49	22.28	22.33	22.24	20.59	19.96	20.54
	256QAM	1	0	21.28	21.00	21.24	18.59	**18.62**	18.39	**21.01**	20.75	20.76	18.57	17.50	**18.75**
		1	1	21.07	21.11	21.16	18.51	18.38	18.47	20.72	20.68	20.53	18.46	17.92	18.10
		1	77	**21.58**	21.08	21.39	18.47	18.56	18.51	20.39	20.71	20.52	18.55	17.99	17.67
		1	78	21.29	21.49	21.48	18.58	18.51	18.40	20.65	20.50	20.67	18.74	18.08	18.20
		36	18	20.88	20.96	20.76	18.53	18.39	18.45	20.17	20.21	20.25	18.64	18.23	18.09
		75	0	20.94	21.03	20.82	18.54	18.55	18.43	20.32	20.26	20.11	18.65	18.18	18.49

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	BPSK	1	0	24.90	25.25	24.80	22.67	22.52	22.57	24.41	24.62	24.40	22.80	22.53	22.78
		1	1	25.58	**25.66**	25.41	23.07	23.06	23.02	24.96	**25.15**	24.96	**23.08**	22.75	22.65
		1	104	25.61	25.62	25.58	23.00	23.08	**23.15**	25.09	25.07	24.86	22.88	22.50	22.70
		1	105	25.12	25.37	25.00	22.60	22.58	22.55	24.63	24.65	24.64	22.35	21.91	21.97
		50	25	25.48	25.53	25.36	22.98	22.95	23.05	23.36	24.78	24.69	23.00	22.28	22.73
		100	0	25.06	25.06	24.87	22.48	22.53	22.57	24.35	24.24	24.23	22.54	21.93	22.22
	QPSK	1	0	24.57	24.84	24.50	22.21	22.22	22.23	24.12	24.08	23.93	22.20	21.53	21.95
		1	1	25.55	**25.70**	25.45	23.18	23.19	23.04	25.11	25.04	24.92	23.10	22.66	22.99
		1	104	25.50	25.49	25.40	23.03	**23.20**	22.94	**25.20**	25.06	24.76	**23.20**	22.40	22.58
		1	105	24.63	24.60	24.59	21.97	22.19	22.14	24.11	23.88	24.07	21.90	21.84	21.78
		50	25	25.45	25.58	25.45	22.93	22.96	22.91	24.80	24.69	24.71	22.99	22.35	22.62
		100	0	24.49	24.63	24.51	22.08	22.05	22.03	23.90	23.82	23.74	22.00	21.45	21.83
	16QAM	1	0	23.78	23.81	23.60	21.33	21.24	21.07	23.06	22.87	23.08	21.06	20.98	20.74
		1	1	**24.83**	24.61	24.19	22.28	22.26	21.96	24.16	23.90	23.92	22.00	21.51	21.64
		1	104	24.30	24.47	24.47	22.28	**22.40**	21.95	23.92	**24.19**	23.90	**22.11**	21.80	21.19
		1	105	23.54	23.44	23.52	21.21	21.44	20.96	22.75	22.91	23.12	20.74	20.80	20.79
		50	25	24.55	24.61	24.46	21.98	21.91	21.85	23.89	23.80	23.67	21.89	21.53	21.77
		100	0	23.60	23.66	23.43	21.03	21.10	20.97	22.79	22.82	22.73	20.99	20.48	20.68
	64QAM	1	0	23.40	**23.42**	23.19	20.58	20.64	20.79	22.54	22.31	22.56	20.74	20.33	20.96
		1	1	23.01	23.25	22.78	20.66	20.68	**20.82**	21.86	22.15	22.56	20.72	19.63	20.99
		1	104	22.79	23.30	23.01	20.58	20.76	20.69	**22.67**	22.35	22.57	**21.29**	20.47	20.78
		1	105	23.18	23.05	22.90	20.50	20.75	20.56	22.26	22.34	22.19	20.77	20.19	20.89
		50	25	23.04	23.04	22.91	20.56	20.35	20.38	22.33	22.41	22.28	20.34	19.90	20.25
		100	0	23.02	23.10	22.97	20.43	20.48	20.49	22.36	22.28	22.29	20.52	20.08	20.32
	256QAM	1	0	21.07	21.29	21.31	18.42	18.52	18.52	20.83	20.69	20.65	18.02	18.19	17.80
		1	1	21.06	21.42	**23.12**	**18.64**	18.50	**18.64**	20.53	20.57	20.55	17.98	17.67	17.86
		1	104	21.20	21.48	20.76	**18.64**	18.60	18.36	**20.98**	20.11	20.54	18.06	17.48	18.09
		1	105	21.32	21.71	21.02	18.58	18.58	18.37	20.71	20.64	20.50	18.30	17.93	17.82
		50	25	21.02	21.08	20.96	18.37	18.51	18.41	20.34	20.35	20.22	18.32	17.96	18.25
		100	0	21.13	21.07	21.19	18.58	18.60	18.51	20.38	20.25	20.18	**18.55**	17.91	18.31

OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				345000	349000	353000	345000	349000	353000	345000	349000	353000	345000	349000	353000
				1725.0	1745.0	1765.0	1725.0	1745.0	1765.0	1725.0	1745.0	1765.0	1725.0	1745.0	1765.0
30.0	BPSK	1	0	22.99	23.01	22.85	21.13	21.03	21.05	22.63	22.71	22.61	20.86	21.08	20.95
		1	1	**23.70**	23.55	23.35	**21.70**	21.65	21.67	23.06	23.10	23.04	21.53	21.59	21.44
		1	158	23.50	23.48	23.60	21.55	21.63	21.62	23.05	**23.18**	23.09	**21.70**	21.67	**21.70**
		1	159	23.02	22.94	23.10	21.07	21.35	21.35	22.68	22.77	22.75	20.89	21.03	20.93
		80	40	23.27	23.26	23.28	21.40	21.40	21.30	22.98	22.94	22.98	21.28	21.35	21.32
		160	0	22.96	22.90	22.80	20.94	20.89	20.85	22.55	22.53	22.58	20.84	20.82	20.82
	QPSK	1	0	22.59	22.64	22.50	20.69	20.53	20.53	22.29	22.35	22.24	20.73	20.73	20.93
		1	1	23.56	23.45	23.36	**21.61**	21.54	21.55	23.08	**23.20**	23.01	21.64	21.59	21.54
		1	158	23.61	23.67	**23.69**	21.56	21.52	21.53	23.06	23.08	23.09	21.65	**21.66**	21.64
		1	159	22.54	22.34	22.41	20.69	20.76	20.75	22.23	22.36	22.33	20.45	20.71	20.40
		80	40	23.45	23.49	23.35	21.39	21.38	21.30	22.98	22.95	23.01	21.31	21.34	21.35
		160	0	22.45	22.43	22.38	20.42	20.37	20.35	22.08	22.05	22.13	20.37	20.29	20.34
	16QAM	1	0	21.67	21.24	21.39	19.91	19.78	19.76	21.19	21.18	21.17	19.37	19.72	19.35
		1	1	**22.98**	22.55	22.62	20.82	20.85	20.85	22.04	22.02	21.88	20.51	20.72	20.40
		1	158	22.42	21.82	22.44	**21.08**	20.93	20.93	22.05	**22.08**	22.00	**20.77**	20.76	20.76
		1	159	21.28	21.66	21.50	19.86	19.88	19.92	21.16	21.29	21.13	19.55	19.69	19.23
		80	40	22.46	22.42	22.35	20.36	20.43	20.42	21.95	21.97	21.98	20.27	20.27	20.32
		160	0	21.62	21.52	21.45	19.40	19.38	19.37	21.04	21.00	21.03	19.40	19.38	19.38
	64QAM	1	0	21.41	21.05	21.10	19.08	19.08	19.10	20.37	20.47	20.54	18.71	18.73	18.86
		1	1	21.33	21.56	21.12	19.22	19.00	18.97	20.49	20.48	20.24	18.93	18.73	18.79
		1	158	21.41	21.05	21.27	**19.27**	19.13	19.13	20.54	20.48	20.44	19.03	**19.12**	18.98
		1	159	**21.93**	20.84	21.10	19.08	19.06	19.02	20.53	20.40	**20.55**	18.84	18.79	18.90
		80	40	20.84	20.96	20.82	18.89	18.88	18.91	20.49	20.48	20.42	18.81	18.83	18.78
		160	0	21.07	20.96	20.87	18.87	18.86	18.77	**20.55**	20.44	20.47	18.93	18.90	18.91
	256QAM	1	0	18.81	19.18	18.76	17.15	17.07	17.04	18.82	18.75	18.44	16.93	**17.41**	16.86
		1	1	**19.20**	19.10	18.64	**17.37**	17.18	17.18	18.83	18.63	18.63	17.05	17.08	17.12
		1	158	19.11	18.86	18.73	17.17	17.24	17.23	**18.88**	18.78	18.56	17.17	17.13	17.20
		1	159	19.05	18.81	18.56	17.17	17.14	17.18	18.69	18.64	18.51	16.93	17.27	17.02
		80	40	18.93	18.82	18.97	16.93	16.93	17.00	18.52	18.54	18.47	16.89	16.91	16.92
		160	0	19.05	18.97	18.89	16.99	16.96	17.00	18.52	18.51	18.56	16.92	16.93	16.51

OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				346000	349000	352000	346000	349000	352000	346000	349000	352000	346000	349000	352000
				1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0	1730.0	1745.0	1760.0
40.0	BPSK	1	0	23.16	**23.70**	22.95	21.10	20.94	21.02	22.56	22.45	22.43	20.87	20.84	20.94
		1	1	23.56	23.27	23.38	21.57	21.29	**21.70**	23.10	23.11	**23.20**	21.39	21.32	21.38
		1	214	23.19	23.09	23.31	21.48	21.41	21.67	22.97	23.06	23.15	21.59	21.42	**21.70**
		1	215	22.80	22.89	22.87	21.07	20.96	21.36	22.56	22.53	22.64	20.84	20.77	20.92
		108	54	23.19	23.01	23.03	21.27	21.33	21.34	23.00	22.96	22.98	21.27	21.25	21.32
		216	0	22.87	22.74	22.72	20.90	20.88	20.90	22.56	22.57	22.51	20.81	20.82	20.81
	QPSK	1	0	22.21	22.27	22.40	20.71	20.46	20.55	22.14	22.11	22.23	20.51	20.23	20.49
		1	1	23.57	**23.64**	23.36	**21.60**	21.39	21.53	**23.15**	23.01	23.13	21.63	21.51	21.55
		1	214	23.32	23.32	23.17	21.46	21.41	21.57	22.86	23.01	23.10	21.62	21.41	**21.64**
		1	215	22.62	22.05	22.48	20.49	20.41	20.78	21.99	22.08	22.14	20.45	20.46	20.38
		108	54	23.20	23.10	23.08	21.32	21.35	21.32	23.01	22.96	23.00	21.31	21.24	21.29
		216	0	22.46	22.34	22.29	20.44	20.40	20.42	22.13	22.08	22.03	20.37	20.33	20.31
	16QAM	1	0	21.14	21.30	21.32	19.89	19.70	19.72	21.33	21.19	21.25	19.32	19.19	19.33
		1	1	22.71	**22.73**	22.64	20.87	20.48	20.80	22.17	22.11	22.25	20.36	20.27	20.39
		1	214	22.33	21.89	21.96	20.81	20.55	**21.02**	22.16	22.21	**22.30**	20.36	20.34	**20.75**
		1	215	21.32	21.79	21.50	19.98	19.74	19.90	21.26	21.37	21.30	19.40	19.61	19.22
		108	54	22.27	22.18	22.16	20.35	20.42	20.44	22.05	22.03	22.01	20.33	20.31	20.35
		216	0	21.54	21.39	21.32	19.38	19.38	19.37	21.17	21.08	21.04	19.29	19.33	19.33
	64QAM	1	0	21.05	20.85	20.27	19.04	18.98	19.05	20.82	20.65	20.64	18.77	18.53	18.63
		1	1	21.08	20.89	20.94	19.07	18.76	19.02	20.73	20.66	20.75	18.99	18.65	18.81
		1	214	20.84	20.89	**21.31**	18.86	18.82	**19.14**	20.77	20.67	20.47	**19.02**	18.62	18.98
		1	215	20.92	20.53	20.88	**19.14**	18.99	18.98	**20.88**	20.75	20.60	18.79	18.62	18.74
		108	54	20.82	20.60	20.63	18.84	18.94	18.87	20.52	20.49	20.53	18.83	18.81	18.78
		216	0	20.99	20.85	20.92	18.86	18.91	18.82	20.53	20.52	20.52	18.82	18.80	18.91
	256QAM	1	0	18.53	18.66	18.40	17.21	17.19	17.07	18.51	18.62	18.64	17.14	16.89	16.94
		1	1	19.00	**19.42**	18.74	17.16	16.84	17.12	**18.66**	18.55	18.59	17.09	16.71	17.11
		1	214	18.81	18.90	19.22	17.12	16.82	17.04	18.47	18.51	18.54	**17.20**	16.80	**17.20**
		1	215	18.70	18.64	18.74	**17.30**	17.26	17.12	18.26	18.48	18.58	16.91	16.64	17.11
		108	54	18.88	18.75	18.70	17.03	16.92	17.02	18.50	18.50	18.50	16.87	16.85	16.77
		216	0	19.01	18.77	18.77	17.03	16.93	16.99	18.56	18.51	18.49	16.89	16.90	16.53

8.14. LTE BAND 71 AND 5G NR n71

LTE BAND 71

Test Engineer ID:	10646	Test Date:	4/12/2021

OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				133147	133297	133447	133147	133297	133447
				665.5 MHz	680.5 MHz	695.5 MHz	665.5 MHz	680.5 MHz	695.5 MHz
5.0	QPSK	1	0	25.68	**25.70**	25.48	**24.70**	24.66	24.44
		1	12	25.59	25.52	25.34	24.65	24.49	24.31
		1	24	25.56	25.58	25.35	24.57	24.49	24.23
		12	0	24.66	24.48	24.44	23.60	23.39	23.39
		12	6	24.71	24.52	24.39	23.68	23.47	23.35
		12	11	24.62	24.45	24.32	23.62	23.43	23.31
		25	0	24.66	24.52	24.41	23.63	23.49	23.41
	16QAM	1	0	24.48	24.49	**24.75**	23.72	23.63	**23.96**
		1	12	24.48	24.38	24.58	23.80	23.57	23.83
		1	24	24.43	24.33	24.57	23.68	23.59	23.77
		12	0	23.66	23.51	23.57	22.70	22.55	22.58
		12	6	23.71	23.57	23.53	22.75	22.61	22.57
		12	11	23.61	23.50	23.46	22.65	22.52	22.52
		25	0	23.62	23.53	23.48	22.55	22.54	22.49
	64QAM	1	0	23.62	23.12	**23.65**	22.80	22.55	22.81
		1	12	23.64	23.09	23.54	**22.88**	22.48	22.72
		1	24	**23.65**	23.08	23.47	**22.88**	22.49	22.63
		12	0	22.67	22.45	22.38	21.71	21.51	21.44
		12	6	22.71	22.53	22.32	21.78	21.62	21.37
		12	11	22.62	22.46	22.31	21.68	21.50	21.32
		25	0	22.62	22.53	22.38	21.69	21.52	21.39
	256QAM	1	0	20.27	20.02	20.48	19.55	19.28	19.72
		1	12	20.30	19.94	20.35	19.49	19.19	19.62
		1	24	20.26	19.94	20.35	19.42	19.09	19.45
		12	0	20.70	20.46	20.53	19.71	19.42	19.53
		12	6	**20.71**	20.51	20.50	**19.76**	19.51	19.51
		12	11	20.66	20.43	20.45	19.71	19.45	19.44
		25	0	20.67	20.47	20.39	19.66	19.50	19.40

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133172	133322	133422	133172	133322	133422
				668.0 MHz	683.0 MHz	693.0 MHz	668.0 MHz	683.0 MHz	693.0 MHz
10.0	QPSK	1	0	**25.70**	25.51	25.43	**24.70**	24.61	24.59
		1	24	25.66	25.46	25.37	24.61	24.60	24.58
		1	49	25.59	25.41	25.33	24.55	24.55	24.45
		25	0	24.69	24.50	24.50	23.76	23.61	23.53
		25	12	24.76	24.51	24.50	23.82	23.64	23.55
		25	24	24.70	24.53	24.49	23.76	23.64	23.57
		50	0	24.71	24.54	24.51	23.80	23.63	23.62
	16QAM	1	0	**24.72**	24.47	24.29	23.90	23.68	**24.09**
		1	24	24.67	24.37	24.15	23.74	23.59	24.01
		1	49	24.67	24.32	24.12	23.83	23.54	23.97
		25	0	23.73	23.58	23.50	22.88	22.69	22.68
		25	12	23.78	23.60	23.46	22.92	22.67	22.66
		25	24	23.73	23.57	23.52	22.86	22.72	22.66
		50	0	23.74	23.55	23.48	22.83	22.61	22.62
	64QAM	1	0	**23.65**	23.58	23.52	22.98	**23.01**	22.82
		1	24	23.59	23.48	23.49	22.97	22.95	22.83
		1	49	23.64	23.50	23.45	22.91	22.92	22.76
		25	0	22.75	22.64	22.58	21.91	21.70	21.71
		25	12	22.78	22.59	22.53	21.91	21.73	21.74
		25	24	22.76	22.66	22.59	21.87	21.75	21.76
		50	0	22.75	22.53	22.53	21.80	21.62	21.64
	256QAM	1	0	20.25	20.41	20.88	19.71	20.23	19.44
		1	24	20.27	20.29	**20.89**	19.78	**20.26**	19.41
		1	49	20.25	20.25	20.78	19.67	20.21	19.34
		25	0	20.74	20.65	20.55	19.95	19.70	19.67
		25	12	20.75	20.61	20.53	19.93	19.70	19.63
		25	24	20.68	20.59	20.53	19.89	19.71	19.62
		50	0	20.68	20.51	20.52	19.87	19.67	19.61

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133197	133297	133397	133197	133297	133397
				670.5 MHz	680.5 MHz	690.5 MHz	670.5 MHz	680.5 MHz	690.5 MHz
15.0	QPSK	1	0	**25.70**	25.67	25.52	**24.70**	24.53	24.48
		1	37	25.65	25.60	25.51	24.64	24.44	24.41
		1	74	25.60	25.54	25.41	24.59	24.40	24.32
		36	0	24.74	24.64	24.58	23.71	23.57	23.50
		36	16	24.77	24.71	24.56	23.67	23.61	23.48
		36	35	24.67	24.56	24.54	23.63	23.53	23.50
		75	0	24.72	24.62	24.55	23.69	23.59	23.48
	16QAM	1	0	24.73	**25.04**	24.34	23.94	23.55	23.98
		1	37	24.80	24.98	24.25	**24.21**	23.50	23.90
		1	74	24.66	24.49	24.45	23.96	23.48	23.79
		36	0	23.61	23.58	23.45	22.67	22.56	22.61
		36	16	23.67	23.62	23.42	22.63	22.61	22.50
		36	35	23.59	23.48	23.43	22.62	22.54	22.50
		75	0	23.65	23.60	23.46	22.66	22.63	22.49
	64QAM	1	0	23.54	23.46	23.78	23.19	22.89	22.68
		1	37	23.59	23.46	**23.81**	**23.26**	22.78	22.66
		1	74	23.58	23.40	23.65	23.16	22.79	22.56
		36	0	22.74	22.62	22.59	21.76	21.64	21.64
		36	16	22.70	22.66	22.54	21.68	21.70	21.60
		36	35	22.65	22.56	22.55	21.68	21.58	21.59
		75	0	22.67	22.62	22.50	21.72	21.61	21.52
	256QAM	1	0	20.91	20.14	20.65	19.99	**20.18**	19.37
		1	37	**20.97**	20.16	20.64	20.05	20.14	19.35
		1	74	**20.97**	20.15	20.58	19.97	20.15	19.29
		36	0	20.72	20.59	20.58	19.74	19.66	19.54
		36	16	20.71	20.63	20.52	19.66	19.68	19.52
		36	35	20.60	20.52	20.53	19.64	19.60	19.50
		75	0	20.71	20.58	20.53	19.71	19.64	19.48

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133222	133322	133372	133222	133322	133372
				673.0 MHz	683.0 MHz	688.0 MHz	673.0 MHz	683.0 MHz	688.0 MHz
20.0	QPSK	1	0	25.66	**25.70**	25.61	**24.70**	24.62	24.56
		1	49	25.57	25.61	25.48	24.66	24.54	24.44
		1	99	25.55	25.54	25.38	24.58	24.46	24.33
		50	0	24.73	24.65	24.61	23.76	23.64	23.55
		50	24	24.72	24.57	24.55	23.73	23.58	23.59
		50	49	24.58	24.55	24.54	23.63	23.52	23.50
		100	0	24.68	24.65	24.55	23.72	23.58	23.55
	16QAM	1	0	**24.98**	24.67	24.87	**24.17**	24.01	24.14
		1	49	24.77	24.58	24.75	24.02	23.98	24.02
		1	99	24.82	24.55	24.69	23.95	23.91	23.95
		50	0	23.75	23.55	23.59	22.77	22.63	22.65
		50	24	23.72	23.54	23.55	22.74	22.58	22.67
		50	49	23.64	23.50	23.55	22.64	22.57	22.58
		100	0	23.70	23.65	23.58	22.76	22.56	22.56
	64QAM	1	0	**24.06**	23.60	23.75	23.33	22.90	22.97
		1	49	24.00	23.55	23.65	**23.35**	22.82	22.97
		1	99	24.04	23.45	23.59	23.23	22.77	22.78
		50	0	22.79	22.71	22.65	21.78	21.69	21.66
		50	24	22.77	22.64	22.66	21.79	21.62	21.70
		50	49	22.62	22.61	22.66	21.66	21.58	21.62
		100	0	22.77	22.68	22.61	21.76	21.60	21.58
	256QAM	1	0	20.62	20.41	20.65	19.79	19.53	19.71
		1	49	20.57	20.42	20.54	**19.85**	19.59	19.83
		1	99	20.62	20.43	20.48	19.82	19.61	19.64
		50	0	20.76	20.66	20.65	19.78	19.69	19.64
		50	24	20.77	20.61	20.62	19.77	19.63	19.68
		50	49	20.66	20.61	20.58	19.70	19.63	19.58
		100	0	**20.78**	20.66	20.53	19.77	19.64	19.56

5G NR n71

Test Engineer ID:	19171	Test Date:	6/10/2021

OUTPUT POWER FOR 5G NR n71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				133100	136100	139100	133100	136100	139100
				665.5 MHz	680.5 MHz	695.5 MHz	665.5 MHz	680.5 MHz	695.5 MHz
5.0	BPSK	1	0	25.13	24.89	24.71	24.00	24.01	23.51
		1	1	**25.70**	25.35	25.27	**24.61**	24.37	23.98
		1	23	25.51	25.25	25.26	24.44	24.12	23.98
		1	24	25.32	24.76	24.76	23.93	23.62	23.43
		12	6	25.56	25.20	24.98	24.55	24.20	24.03
		25	0	24.80	24.81	24.42	23.88	23.56	23.40
	QPSK	1	0	24.59	24.27	24.41	23.50	23.33	23.23
		1	1	25.47	25.41	25.21	**24.70**	24.55	24.34
		1	23	**25.59**	25.39	25.22	24.58	24.41	23.01
		1	24	24.79	24.30	24.05	23.40	23.28	23.05
		12	6	25.49	25.27	24.93	24.57	24.23	23.13
		25	0	24.45	24.27	24.06	23.46	23.17	23.11
	16QAM	1	0	23.49	23.44	23.01	22.57	22.35	22.23
		1	1	24.72	24.42	24.47	23.58	23.39	23.08
		1	23	**24.80**	24.28	24.21	**23.68**	23.41	23.11
		1	24	23.59	23.17	22.98	22.46	22.38	22.06
		12	6	24.43	24.16	23.72	23.56	23.23	23.03
		25	0	23.33	23.20	22.96	22.48	22.21	22.09
	64QAM	1	0	**23.22**	22.80	22.58	**22.18**	21.86	21.70
		1	1	23.07	22.85	22.64	22.12	21.95	21.89
		1	23	22.88	22.90	22.69	21.97	21.89	21.73
		1	24	23.03	22.69	22.64	22.12	21.78	21.48
		12	6	22.93	22.65	22.51	21.87	21.61	21.52
		25	0	22.87	22.89	22.54	21.89	21.60	21.38
	256QAM	1	0	21.34	20.99	21.33	19.52	19.27	19.21
		1	1	**21.40**	20.73	21.08	19.61	19.28	19.09
		1	23	**21.40**	21.07	20.82	19.34	19.22	19.12
		1	24	21.21	20.95	20.75	19.39	19.16	18.95
		12	6	20.98	20.57	20.58	**19.98**	19.47	19.41
		25	0	20.92	20.66	20.55	19.89	19.53	19.34

OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				133600	136600	138600	133600	136600	138600
				668.0 MHz	683.0 MHz	693.0 MHz	668.0 MHz	683.0 MHz	693.0 MHz
10.0	BPSK	1	0	25.43	25.02	25.18	24.29	24.03	23.51
		1	1	25.66	**25.70**	25.48	**24.59**	24.52	24.16
		1	50	25.66	25.63	25.21	24.49	24.58	24.06
		1	51	25.42	25.02	24.86	23.82	23.89	24.32
		25	12	25.44	25.12	25.50	24.50	24.26	24.24
		50	0	22.92	24.64	24.84	22.73	23.90	23.67
	QPSK	1	0	24.84	24.49	24.50	23.62	23.61	23.07
		1	1	**25.62**	**25.62**	25.57	**24.70**	24.58	23.84
		1	50	25.56	25.53	25.28	24.50	24.45	23.91
		1	51	24.45	24.31	24.33	23.48	23.48	23.94
		25	12	25.50	25.35	25.36	24.47	24.37	24.12
		50	0	24.47	24.26	24.25	23.52	23.34	23.14
	16QAM	1	0	23.71	23.73	23.47	22.60	22.65	22.15
		1	1	24.67	**24.73**	24.53	**23.62**	23.54	22.94
		1	50	24.62	24.44	24.54	23.40	23.38	23.03
		1	51	23.49	23.30	23.34	22.38	22.34	22.97
		25	12	24.60	24.33	24.34	23.48	23.28	22.97
		50	0	23.45	23.23	23.32	22.33	22.77	22.08
	64QAM	1	0	**23.31**	22.97	23.12	22.16	22.00	21.45
		1	1	23.16	23.06	22.80	**22.22**	22.00	21.36
		1	50	23.13	23.02	22.98	21.93	21.99	21.30
		1	51	23.04	22.93	22.77	21.97	21.99	21.50
		25	12	23.00	22.78	22.80	21.78	21.65	21.54
		50	0	22.97	22.80	22.83	21.77	21.59	21.63
	256QAM	1	0	**21.84**	21.21	21.33	19.45	19.63	19.91
		1	1	21.69	21.27	21.33	19.54	19.51	19.93
		1	50	21.11	20.97	20.90	19.53	19.45	19.74
		1	51	21.56	21.48	21.24	19.57	19.35	**20.02**
		25	12	21.08	20.70	20.88	19.98	19.70	19.68
		50	0	20.96	20.69	20.69	19.88	19.78	19.69

OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				134100	136100	138100	134100	136100	138100
				670.5 MHz	680.5 MHz	690.5 MHz	670.5 MHz	680.5 MHz	690.5 MHz
15.0	BPSK	1	0	25.13	25.04	24.90	24.26	24.24	23.90
		1	1	25.36	**25.49**	25.22	24.57	24.56	24.36
		1	77	25.23	25.13	25.11	24.26	**24.70**	23.92
		1	78	24.61	24.73	24.44	24.64	24.57	23.67
		36	18	25.07	24.89	24.93	24.58	24.43	24.20
		75	0	24.59	24.36	24.42	24.42	23.83	23.60
	QPSK	1	0	24.47	24.25	24.10	23.48	24.17	23.20
		1	1	25.50	**25.70**	25.18	24.50	**24.66**	**24.66**
		1	77	25.20	25.20	25.00	24.48	24.60	23.91
		1	78	24.19	24.28	24.19	24.54	24.52	23.23
		36	18	25.29	24.96	25.03	24.11	24.58	24.29
		75	0	24.25	23.95	23.96	24.62	23.45	23.06
	16QAM	1	0	23.78	23.35	23.14	22.70	23.31	22.56
		1	1	**24.77**	24.67	24.73	23.15	23.49	23.41
		1	77	24.62	24.11	24.47	23.48	**23.74**	23.16
		1	78	23.54	23.13	23.15	23.62	23.73	22.37
		36	18	24.26	23.97	24.08	23.43	23.39	23.28
		75	0	23.18	23.01	23.03	23.43	22.42	22.01
	64QAM	1	0	22.99	22.91	22.66	21.85	21.68	**22.05**
		1	1	**23.09**	22.94	22.73	21.86	22.03	21.51
		1	77	22.68	22.71	22.65	21.79	21.80	21.52
		1	78	22.46	22.67	22.38	21.86	21.70	21.40
		36	18	22.79	22.40	22.54	21.83	21.92	21.71
		75	0	22.76	22.43	22.41	21.85	21.78	21.53
	256QAM	1	0	21.16	20.98	21.03	20.39	20.04	20.13
		1	1	**21.63**	21.29	20.89	19.72	20.02	19.92
		1	77	21.02	21.08	20.63	19.89	20.19	19.67
		1	78	20.93	20.82	20.76	19.98	**20.43**	19.87
		36	18	20.73	20.41	20.47	20.06	19.92	19.74
		75	0	20.67	20.41	20.33	19.82	19.98	19.57

OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1 Conducted Average (dBm)			Ant 2 Conducted Average (dBm)		
				134600	136600	137600	134600	136600	137600
				673.0 MHz	683.0 MHz	688.0 MHz	673.0 MHz	683.0 MHz	688.0 MHz
20.0	BPSK	1	0	24.96	24.94	25.01	24.12	23.55	23.78
		1	1	**25.33**	25.22	25.26	**24.70**	24.27	24.32
		1	104	25.15	24.93	25.08	23.96	23.97	23.80
		1	105	24.77	24.68	24.69	23.55	23.37	23.31
		50	25	25.10	25.00	25.10	24.36	24.13	23.93
		100	0	24.67	24.46	24.46	23.88	23.67	23.53
	QPSK	1	0	24.71	24.50	24.09	23.66	23.33	23.21
		1	1	**25.70**	25.46	25.26	**24.49**	24.45	24.31
		1	104	25.23	25.18	25.06	24.12	23.74	23.90
		1	105	24.28	24.27	23.93	23.15	23.20	23.03
		50	25	25.16	25.07	24.97	24.43	24.25	23.91
		100	0	24.18	23.99	23.91	23.46	23.25	23.08
	16QAM	1	0	23.62	23.23	23.49	22.43	22.45	22.10
		1	1	24.10	24.13	24.36	**23.60**	23.38	23.10
		1	104	**24.56**	24.22	24.45	23.26	22.87	23.06
		1	105	23.49	23.43	23.38	22.22	22.22	22.10
		50	25	24.16	24.02	24.01	23.38	23.15	23.14
		100	0	23.16	22.91	22.94	22.35	22.18	22.06
	64QAM	1	0	23.01	22.89	22.49	21.68	21.45	21.77
		1	1	**23.18**	22.97	22.67	**22.03**	21.43	21.65
		1	104	22.43	22.85	22.36	21.54	21.40	21.10
		1	105	22.56	22.70	22.31	21.69	21.46	21.67
		50	25	22.71	22.62	22.43	21.66	21.60	21.55
		100	0	22.68	22.46	22.36	21.85	21.60	21.48
	256QAM	1	0	20.76	21.14	20.87	20.15	19.62	19.77
		1	1	21.14	**21.19**	20.69	**20.52**	19.70	19.81
		1	104	20.95	20.84	20.47	20.05	19.39	19.72
		1	105	20.83	21.05	20.34	19.79	19.91	19.93
		50	25	20.67	20.44	20.51	19.75	19.62	19.55
		100	0	20.66	20.42	20.42	19.80	19.55	19.47

8.15. 5G NR n77 (Part 27 3450-3550MHz)

Test Engineer ID:	19467	Test Date:	5/1/2021

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				630666	633332	635998	630666	633332	635998	630666	633332	635998	630666	633332	635998
				3460.0	3550.0	3540.0	3460.0	3550.0	3540.0	3460.0	3550.0	3540.0	3460.0	3550.0	3540.0
20.0	BPSK	1	0	24.15	24.07	24.04	20.50	20.52	20.50	23.98	23.67	23.56	20.52	20.33	20.23
		1	1	**27.67**	27.36	27.42	24.10	24.10	**24.17**	**27.20**	27.06	26.93	24.13	23.84	23.95
		1	49	27.34	27.47	27.22	23.65	23.98	23.96	26.90	27.06	26.88	**24.20**	23.22	**24.20**
		1	50	23.71	24.04	23.60	20.25	20.43	20.36	23.80	23.59	23.59	20.42	20.50	20.04
		25	12	27.33	27.41	27.29	23.86	23.83	24.05	26.95	26.82	26.88	23.93	23.64	23.64
		50	0	26.99	26.90	26.72	23.26	23.41	23.46	26.46	26.32	26.34	23.50	23.18	23.33
	QPSK	1	0	24.19	23.76	24.05	20.61	20.64	20.69	23.68	23.55	23.46	20.31	20.45	20.13
		1	1	**27.70**	27.59	27.50	24.15	24.18	**24.20**	**27.20**	27.08	27.11	23.75	23.58	23.92
		1	49	27.20	27.66	27.26	23.72	24.03	23.11	27.16	27.02	26.80	24.06	23.92	**24.07**
		1	50	23.83	24.11	23.75	20.34	20.58	20.43	23.66	23.58	23.55	20.40	20.59	20.03
		25	12	27.34	27.34	27.29	23.82	23.93	23.96	26.97	26.90	26.76	23.80	23.78	23.55
		50	0	26.45	26.34	26.22	22.89	22.84	22.94	25.95	25.81	25.85	22.76	22.72	22.68
	16QAM	1	0	24.08	23.92	24.06	20.47	20.50	20.69	23.68	23.67	23.45	20.33	20.42	20.71
		1	1	**26.69**	26.41	26.33	22.81	**23.18**	22.97	**26.21**	26.09	26.09	23.06	22.87	**23.30**
		1	49	26.21	26.43	26.11	22.43	22.86	22.66	26.09	26.04	25.93	22.98	22.93	22.92
		1	50	23.87	23.95	23.61	20.27	20.37	20.34	23.63	23.52	23.46	20.71	20.69	20.25
		25	12	26.26	26.37	26.32	22.85	22.87	23.00	25.90	25.79	25.81	22.73	22.61	22.62
		50	0	25.49	25.32	25.23	21.78	21.77	22.02	24.94	24.88	24.82	21.83	21.73	21.81
	64QAM	1	0	24.27	23.89	23.89	20.60	20.52	20.42	23.61	23.55	23.51	20.94	20.66	20.93
		1	1	**25.28**	25.06	24.99	21.48	**23.19**	21.56	24.62	24.60	24.63	21.70	21.40	21.77
		1	49	24.81	24.98	24.83	21.19	21.56	21.46	24.39	24.43	24.32	**21.93**	21.75	21.86
		1	50	23.76	24.00	24.00	20.12	20.25	20.40	23.42	23.56	23.67	20.67	20.68	21.38
		25	12	24.70	24.97	24.86	21.36	21.52	21.58	24.47	24.32	24.31	21.17	21.18	21.12
		50	0	24.91	24.91	24.71	21.46	21.39	21.37	24.36	24.42	24.37	21.38	21.18	21.26
	256QAM	1	0	23.21	22.69	22.91	19.45	19.72	19.61	**22.89**	22.75	22.51	19.20	19.35	19.22
		1	1	**23.40**	22.79	22.93	19.68	19.68	19.81	22.86	22.68	22.61	18.70	**19.73**	18.90
		1	49	22.71	22.76	22.72	19.38	**20.11**	19.63	22.40	22.59	22.55	19.10	19.22	18.83
		1	50	22.80	22.80	22.65	19.82	19.74	19.60	22.75	22.51	22.49	19.10	19.03	19.01
		25	12	22.76	22.82	22.85	19.39	19.40	19.57	22.51	22.33	22.34	19.17	19.25	19.33
		50	0	23.02	22.94	22.79	18.98	19.37	19.44	22.46	22.42	22.29	19.29	19.20	19.27

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631000	633332	635666	631000	633332	635666	631000	633332	635666	631000	633332	635666
				3465.0	3500.0	3535.0	3465.0	3500.0	3535.0	3465.0	3500.0	3535.0	3465.0	3500.0	3535.0
30.0	BPSK	1	0	23.92	24.09	24.21	20.71	20.54	20.63	23.37	23.20	23.26	20.44	20.52	20.58
		1	1	27.40	27.44	27.54	**24.20**	24.11	24.11	**26.93**	26.70	26.62	23.98	24.11	**24.20**
		1	76	27.24	**27.69**	27.28	23.60	24.12	24.04	26.89	26.92	26.72	23.99	23.87	24.13
		1	77	23.92	24.04	23.86	20.35	20.66	20.66	23.40	23.46	23.39	20.42	20.53	20.70
		36	18	27.51	27.42	27.54	23.68	23.92	24.13	26.56	26.53	26.54	23.96	23.83	23.90
		75	0	26.49	26.95	26.96	23.35	23.55	23.53	26.07	26.08	26.05	23.48	23.42	23.41
	QPSK	1	0	23.98	24.06	24.12	20.49	20.57	20.79	23.38	23.31	23.10	20.54	20.41	20.49
		1	1	**27.70**	27.45	27.65	23.77	24.01	**24.18**	**27.20**	26.78	26.72	23.98	24.04	23.85
		1	76	27.38	27.67	27.39	23.84	24.16	24.15	26.65	26.79	26.88	**24.07**	24.03	23.98
		1	77	23.98	24.15	23.89	20.61	20.71	20.56	23.31	23.23	23.21	20.20	20.70	20.39
		36	18	27.49	27.42	27.55	23.87	23.98	23.96	26.57	26.51	26.54	23.92	23.78	23.77
		75	0	26.51	26.39	26.50	22.80	23.05	23.09	25.56	25.58	25.56	22.98	22.86	22.93
	16QAM	1	0	24.51	24.20	24.46	20.61	20.60	20.56	23.39	22.96	23.11	20.50	20.66	20.73
		1	1	26.91	26.66	26.94	**23.43**	22.48	23.42	25.80	25.83	25.59	22.99	23.30	23.21
		1	76	26.38	**27.12**	26.66	23.03	23.19	22.86	**25.94**	25.78	25.83	23.25	23.25	23.29
		1	77	24.24	24.33	24.27	20.54	20.53	20.14	23.20	23.11	23.32	20.59	20.98	20.44
		36	18	26.48	26.43	26.55	22.78	22.97	20.31	25.63	25.51	25.57	**23.97**	22.83	22.86
		75	0	25.46	25.41	25.48	21.77	21.73	22.09	24.55	24.58	24.56	21.97	21.81	21.99
	64QAM	1	0	24.02	23.95	24.11	20.33	20.49	20.70	23.09	23.18	23.23	20.98	20.65	20.61
		1	1	25.16	24.98	**25.38**	21.77	21.34	22.16	**24.32**	24.10	24.22	22.02	21.93	21.68
		1	76	24.87	25.28	25.08	21.56	21.42	21.60	24.22	24.23	24.19	21.89	22.16	22.09
		1	77	23.70	24.14	24.03	20.06	20.24	20.86	23.52	23.39	23.35	21.12	20.89	21.02
		36	18	24.97	24.93	24.98	21.28	**23.06**	21.46	24.09	24.05	24.11	**23.94**	21.26	21.30
		75	0	25.04	24.99	25.01	21.27	21.42	21.49	24.03	24.02	23.98	21.38	21.32	21.40
	256QAM	1	0	23.11	22.97	23.12	19.76	19.67	20.87	22.49	22.40	22.19	18.96	19.11	19.43
		1	1	22.96	22.91	22.98	19.51	19.41	19.83	22.52	22.09	22.31	19.13	19.52	18.99
		1	76	22.77	**23.21**	22.51	19.52	19.93	19.69	**22.59**	22.42	22.41	19.29	19.07	19.34
		1	77	22.86	**23.21**	22.92	19.54	19.62	19.56	22.50	22.32	22.47	19.15	19.24	18.50
		36	18	23.01	23.01	23.03	**21.32**	19.61	19.57	22.07	22.06	22.10	**19.61**	19.37	19.58
		75	0	22.96	23.02	23.00	19.27	19.42	19.53	22.08	22.02	21.97	19.52	19.46	19.41

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631332	633332	635332	631332	633332	635332	631332	633332	635332	631332	633332	635332
				3470.0	3500.0	3530.0	3470.0	3500.0	3530.0	3470.0	3500.0	3530.0	3470.0	3500.0	3530.0
40.0	BPSK	1	0	23.80	23.50	24.07	20.10	19.89	19.76	23.90	23.82	23.75	20.59	20.65	20.49
		1	1	27.47	27.23	27.41	23.40	23.08	23.02	27.01	26.96	26.91	23.93	23.74	23.66
		1	104	27.24	**27.70**	27.29	23.51	**23.64**	23.37	27.06	**27.07**	26.91	**24.09**	24.02	23.93
		1	105	23.77	23.78	23.76	20.08	20.33	20.08	23.90	23.71	23.69	20.63	20.25	20.53
		50	25	27.17	27.36	27.33	23.20	23.40	23.12	26.75	26.81	26.68	23.83	23.93	23.88
		100	0	26.64	27.00	26.69	22.77	22.76	22.19	26.54	26.57	26.51	22.43	23.41	23.37
	QPSK	1	0	23.93	23.80	23.88	19.94	20.07	20.25	23.79	24.01	23.81	20.54	20.56	20.69
		1	1	27.11	27.35	27.08	**23.58**	23.25	22.83	26.95	27.07	26.84	23.82	23.86	24.04
		1	104	27.28	**27.44**	27.01	23.33	23.51	23.44	**27.20**	27.12	26.97	**24.20**	23.77	24.01
		1	105	23.84	23.93	23.73	20.13	20.07	19.94	23.90	23.82	23.69	20.50	20.39	20.55
		50	25	27.09	27.15	27.30	23.13	23.37	23.16	26.67	26.72	26.68	23.81	23.85	23.87
		100	0	26.21	26.25	26.26	22.25	22.24	21.85	26.08	26.08	26.02	22.99	22.80	22.88
	16QAM	1	0	24.25	23.82	23.76	19.86	19.29	19.71	23.89	23.75	23.85	20.04	20.42	20.80
		1	1	**26.52**	26.22	26.46	21.63	22.09	**23.64**	26.13	26.36	26.29	23.36	23.82	23.31
		1	104	26.40	26.46	26.41	22.32	22.85	22.42	**26.47**	26.41	26.30	23.23	23.13	**23.96**
		1	105	24.08	24.12	23.81	19.92	20.31	19.87	24.02	23.80	23.67	20.82	20.52	20.28
		50	25	26.08	26.31	26.30	22.18	22.29	22.19	26.00	26.04	26.05	22.82	23.93	22.85
		100	0	25.18	25.28	25.30	22.21	21.18	20.77	25.08	25.07	25.01	21.92	21.80	21.85
	64QAM	1	0	23.93	23.57	23.76	20.02	19.79	20.06	23.87	23.73	23.99	21.14	21.17	20.63
		1	1	24.53	24.51	24.74	20.49	20.47	**23.82**	**25.04**	24.71	24.40	21.94	22.01	22.18
		1	104	24.95	**25.04**	24.64	21.14	21.26	20.57	25.03	24.71	24.74	22.02	21.79	21.63
		1	105	23.36	23.74	23.66	20.16	20.25	20.08	23.90	23.91	23.64	21.14	20.87	20.34
		50	25	24.60	24.84	24.79	20.73	20.87	20.71	24.58	24.64	24.61	21.38	**22.79**	21.44
		100	0	24.64	24.88	24.74	20.61	20.68	20.33	24.60	24.71	24.57	21.45	19.34	21.36
	256QAM	1	0	22.67	22.56	23.08	18.93	19.10	19.16	**23.27**	22.88	22.64	19.17	19.13	19.18
		1	1	22.83	22.79	22.90	19.14	19.11	**24.20**	22.80	22.57	22.66	19.15	19.00	18.81
		1	104	22.78	**23.21**	22.83	19.32	19.44	18.38	23.26	22.89	22.87	18.54	19.24	19.13
		1	105	22.56	22.94	22.59	19.34	19.20	18.92	22.82	23.00	22.79	19.21	19.13	**19.51**
		50	25	22.57	22.83	22.86	18.64	18.74	18.70	22.61	22.68	22.50	19.30	19.26	19.36
		100	0	22.66	22.90	22.70	18.67	18.82	18.28	22.58	22.65	22.53	19.46	19.37	19.41

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631666	633332	634998	631666	633332	634998	631666	633332	634998	631666	633332	634998
				3475.0	3500.0	3525.0	3475.0	3500.0	3525.0	3475.0	3500.0	3525.0	3475.0	3500.0	3525.0
50.0	BPSK	1	0	24.00	24.09	24.02	20.18	20.33	20.50	23.82	23.62	23.66	20.64	20.61	20.19
		1	1	27.55	26.74	27.32	23.96	23.54	**24.17**	**26.94**	26.86	26.86	23.81	23.91	24.06
		1	131	27.39	27.61	27.60	23.86	24.13	23.96	26.77	26.90	26.84	**24.19**	23.80	23.84
		1	132	23.76	24.55	24.06	20.29	20.45	20.52	23.70	23.57	23.46	20.54	20.39	20.50
		64	32	27.26	27.38	**27.70**	23.60	23.82	24.00	26.80	26.78	26.71	24.00	23.74	23.80
		128	0	26.87	27.16	27.20	23.18	23.37	23.54	26.59	26.49	26.45	23.35	23.30	23.25
	QPSK	1	0	24.13	24.08	23.76	20.08	19.98	20.62	23.77	23.86	23.63	20.42	20.40	20.40
		1	1	**27.62**	26.15	27.44	23.82	23.57	24.06	**27.20**	26.96	26.70	23.77	24.05	23.85
		1	131	27.47	26.68	27.11	**24.20**	23.88	23.93	26.92	26.89	26.76	**24.20**	23.66	23.76
		1	132	23.80	24.43	23.99	20.36	20.49	20.44	23.70	23.80	23.52	20.60	20.17	20.40
		64	32	27.31	27.42	27.34	23.62	23.85	24.07	26.72	26.78	26.59	23.79	23.66	23.86
		128	0	26.35	26.29	26.68	22.64	22.84	22.86	26.12	26.01	25.95	22.89	22.76	22.75
	16QAM	1	0	23.91	23.90	24.04	20.14	19.65	20.78	23.81	23.71	23.52	20.35	20.76	20.50
		1	1	**26.64**	25.74	26.18	22.72	22.19	22.81	26.14	26.37	26.22	23.22	23.07	23.13
		1	131	26.42	26.51	26.52	22.86	22.99	22.68	26.15	**26.45**	25.83	23.30	23.00	**23.32**
		1	132	23.55	24.18	23.88	19.95	20.54	20.25	23.60	23.85	23.92	20.70	20.49	20.27
		64	32	26.26	26.44	26.62	22.60	22.89	**23.06**	26.05	26.10	25.91	22.86	22.73	22.73
		128	0	25.36	25.50	25.63	21.62	21.97	21.96	25.12	24.97	24.98	21.88	21.78	21.76
	64QAM	1	0	24.18	23.96	23.86	20.12	19.64	20.42	23.84	23.68	23.38	20.78	20.86	20.91
		1	1	24.87	24.27	24.52	21.19	21.30	20.51	24.60	**24.88**	24.28	21.31	21.46	21.84
		1	131	25.03	24.14	24.88	21.33	21.42	21.41	24.58	24.70	24.66	**22.13**	21.88	21.51
		1	132	23.62	23.92	23.58	20.40	20.43	20.23	23.83	23.67	23.55	21.07	20.60	20.51
		64	32	24.76	24.91	**25.23**	21.07	21.39	**21.45**	24.63	24.61	24.55	21.42	21.18	21.36
		128	0	24.84	25.03	25.22	21.01	21.23	**21.45**	24.60	24.51	24.52	21.45	21.30	21.28
	256QAM	1	0	22.71	22.69	23.18	19.04	18.95	19.46	22.97	22.75	22.78	19.34	18.98	19.20
		1	1	23.01	22.56	23.00	18.94	18.91	19.22	23.00	22.80	22.89	19.09	19.43	18.68
		1	131	23.02	23.03	22.55	19.03	19.43	19.11	22.80	22.94	22.70	**19.83**	19.21	19.29
		1	132	22.70	**23.45**	22.86	18.97	19.44	19.06	22.86	23.01	22.59	18.55	19.28	18.94
		64	32	22.81	22.98	23.27	19.01	19.41	**19.58**	22.63	22.62	**23.57**	19.41	19.27	19.35
		128	0	22.89	23.21	23.23	19.00	19.30	19.48	22.57	22.48	22.46	19.38	19.34	19.24

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632000	633332	634666	632000	633332	634666	632000	633332	634666	632000	633332	634666
				3480.0	3500.0	3520.0	3480.0	3500.0	3520.0	3480.0	3500.0	3520.0	3480.0	3500.0	3520.0
60.0	BPSK	1	0	23.79	23.94	24.32	20.08	20.34	20.47	23.76	23.80	23.90	20.35	20.12	20.39
		1	1	27.64	27.66	26.86	23.56	23.85	**24.20**	27.17	**27.20**	27.11	23.76	23.77	23.65
		1	160	27.47	27.56	27.35	23.65	23.96	24.12	27.18	27.18	27.00	23.86	23.82	23.70
		1	161	23.97	24.16	24.21	20.05	20.75	20.40	24.07	23.96	23.69	20.54	20.30	20.44
		81	40	27.27	27.68	**27.70**	23.46	24.17	24.11	27.05	27.06	27.03	**23.89**	23.84	23.82
		162	0	26.88	27.00	27.15	22.90	23.36	23.53	26.80	26.85	26.76	23.41	23.38	23.34
	QPSK	1	0	23.85	23.72	24.44	20.19	20.34	20.73	23.79	23.95	23.81	20.45	20.46	20.39
		1	1	27.29	26.61	26.47	23.54	23.87	24.08	**27.17**	26.95	27.10	23.77	23.66	23.89
		1	160	**27.61**	27.51	26.52	23.71	**24.15**	23.88	27.06	27.14	26.99	23.84	23.90	**24.20**
		1	161	23.93	24.04	24.12	20.25	20.62	20.53	24.05	24.14	23.81	20.36	20.58	20.38
		81	40	27.26	27.40	27.11	23.49	**24.15**	24.05	27.12	26.98	26.95	23.91	23.82	23.79
		162	0	26.33	26.51	26.62	22.48	22.90	23.00	26.33	26.36	26.26	22.90	22.90	22.86
	16QAM	1	0	23.89	23.80	23.95	19.81	20.46	20.80	24.00	23.77	24.13	20.61	20.39	20.81
		1	1	**26.93**	26.45	26.04	22.40	22.98	**23.39**	**26.74**	26.51	26.55	22.69	22.99	**23.35**
		1	160	26.53	26.60	25.93	22.51	23.20	23.10	26.31	26.54	26.42	23.04	23.11	23.04
		1	161	24.05	24.33	24.28	19.90	20.67	20.54	24.23	24.26	23.90	20.72	20.37	20.82
		81	40	26.28	26.59	26.49	22.46	23.01	23.15	26.38	26.35	26.27	22.88	22.85	22.86
		162	0	25.45	25.48	25.65	21.43	21.87	22.01	25.26	25.32	25.23	21.87	21.81	21.87
	64QAM	1	0	24.23	23.81	24.07	19.66	20.02	20.72	24.00	23.79	24.01	20.98	20.85	20.55
		1	1	25.00	25.05	24.54	20.89	21.05	21.46	**25.21**	24.73	24.66	21.79	21.58	21.34
		1	160	25.03	**25.43**	24.69	21.05	21.57	21.04	24.86	24.98	24.89	21.87	**22.11**	21.79
		1	161	24.04	23.93	23.93	19.92	20.51	20.50	24.09	24.14	23.78	20.64	20.73	20.70
		81	40	24.82	25.11	25.39	20.99	21.52	**21.64**	24.90	24.85	24.77	21.42	21.23	21.38
		162	0	24.86	25.03	25.14	20.94	21.45	21.48	24.82	24.87	24.80	21.41	21.38	21.44
	256QAM	1	0	22.74	22.47	23.02	18.85	19.20	19.55	23.25	23.14	22.72	18.83	19.13	18.81
		1	1	22.69	22.76	22.91	18.64	18.85	19.81	23.25	23.23	23.00	19.36	19.19	18.89
		1	160	22.67	**23.42**	22.78	18.88	**19.93**	19.24	23.12	23.09	22.94	18.79	19.08	19.15
		1	161	22.61	22.91	23.36	19.15	19.49	19.56	23.10	**23.36**	23.02	19.30	19.49	19.28
		81	40	22.81	23.09	23.34	18.89	19.47	19.48	22.85	22.85	22.70	19.34	19.34	**20.31**
		162	0	22.85	23.00	23.15	18.99	19.40	19.50	22.85	22.78	22.78	19.37	19.34	19.34

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632333	633333	634333	632333	633333	634333	632333	633333	634333	632333	633333	634333
				3485.0	3500.0	3515.0	3485.0	3500.0	3515.0	3485.0	3500.0	3515.0	3485.0	3500.0	3515.0
70.0	BPSK	1	0	23.55	23.61	23.29	20.58	20.14	20.44	23.75	23.65	23.55	20.50	20.59	20.54
		1	1	27.32	27.16	27.04	24.08	23.75	23.85	**27.01**	26.77	26.74	**24.20**	23.86	23.98
		1	187	**27.70**	27.43	26.96	23.99	24.03	23.52	26.89	26.71	26.62	23.79	23.98	23.77
		1	188	23.80	23.79	23.38	20.68	20.64	20.43	23.43	23.75	23.60	20.26	20.44	20.52
		90	45	27.03	24.23	27.20	23.96	**24.09**	23.68	26.71	26.72	26.67	23.96	24.01	24.02
		180	0	26.45	26.70	25.79	23.44	23.53	23.34	26.47	26.45	26.46	23.55	23.51	23.55
	QPSK	1	0	19.11	23.71	23.49	20.52	20.26	20.51	23.76	23.64	23.52	20.57	20.57	20.62
		1	1	27.25	26.96	26.86	**24.20**	23.91	23.81	27.06	26.83	26.62	23.97	23.93	24.03
		1	187	**27.27**	26.99	27.05	24.16	24.07	23.52	26.71	**27.20**	26.55	23.82	23.96	**24.06**
		1	188	23.87	23.81	23.24	20.59	20.82	20.41	23.69	23.72	23.51	20.42	20.50	20.51
		90	45	27.19	27.08	27.13	23.96	24.06	23.77	26.67	26.66	26.64	23.99	24.00	24.01
		180	0	26.02	26.21	26.01	23.03	23.05	22.83	26.00	25.98	26.03	23.01	22.96	22.96
	16QAM	1	0	20.08	23.85	23.41	20.69	20.38	21.00	24.14	23.49	23.32	20.76	20.78	20.50
		1	1	26.15	26.09	25.57	**23.34**	23.14	23.04	26.21	26.32	26.31	23.19	23.25	23.18
		1	187	**26.35**	26.17	26.17	22.94	23.15	22.70	26.16	**26.33**	25.88	**23.37**	23.00	23.05
		1	188	23.63	23.53	23.55	20.41	20.77	20.77	23.61	23.87	23.51	20.46	20.61	20.76
		90	45	26.26	26.11	26.12	22.88	23.08	23.02	26.08	26.01	26.01	22.87	23.04	22.89
		180	0	25.14	25.22	25.02	21.95	22.01	21.80	24.94	24.97	24.98	21.98	21.91	21.95
	64QAM	1	0	20.43	23.74	23.51	20.36	20.14	20.15	23.69	23.55	23.48	20.95	21.00	20.74
		1	1	24.87	24.57	24.34	21.38	**21.55**	20.92	24.69	24.69	24.69	21.79	22.00	22.05
		1	187	24.91	**25.27**	24.02	21.37	21.37	21.01	24.65	**24.73**	24.41	21.45	**22.15**	21.72
		1	188	23.84	23.77	23.15	20.24	20.20	20.29	23.57	23.79	23.55	21.08	20.83	20.36
		90	45	24.70	24.70	24.49	21.34	21.52	21.45	24.59	24.45	24.43	21.58	21.46	21.56
		180	0	24.71	24.74	24.54	21.46	21.53	21.49	24.51	24.48	24.47	21.55	21.44	21.41
	256QAM	1	0	17.49	22.71	22.31	19.69	18.89	19.45	22.69	22.52	22.89	19.08	18.97	19.00
		1	1	22.95	22.94	21.64	**19.74**	19.20	19.43	**22.98**	22.93	22.88	19.19	19.41	18.75
		1	187	23.19	22.38	22.55	19.52	19.41	19.06	22.58	22.89	22.82	18.98	**19.63**	19.15
		1	188	23.05	22.74	22.36	19.37	19.18	19.33	22.72	22.77	22.31	19.39	19.21	19.25
		90	45	22.75	**24.24**	22.59	19.34	19.59	19.39	22.52	22.50	22.53	19.55	19.45	19.51
		180	0	22.67	22.77	22.54	19.46	19.60	19.51	22.47	22.45	22.46	19.50	19.47	19.50

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632666	633332	633998	632666	633332	633998	632666	633332	633998	632666	633332	633998
				3490.0	3500.0	3510.0	3490.0	3500.0	3510.0	3490.0	3500.0	3510.0	3490.0	3500.0	3510.0
80.0	BPSK	1	0	24.01	23.96	23.94	20.74	20.55	20.37	23.91	23.96	23.76	20.60	20.48	20.60
		1	1	27.53	**27.70**	27.36	24.12	24.00	23.91	**27.19**	27.01	26.84	23.97	**24.20**	24.08
		1	215	22.49	27.53	27.04	24.15	**24.20**	24.08	27.00	26.92	26.88	23.64	23.61	23.92
		1	216	22.58	23.78	23.62	20.83	20.73	20.44	23.94	23.90	23.68	20.23	20.37	20.35
		108	54	27.34	27.42	27.40	24.12	24.16	24.13	26.98	26.93	26.82	23.98	23.85	23.93
		216	0	26.85	26.88	26.90	23.61	23.62	23.63	26.58	26.72	26.63	23.34	23.34	23.41
	QPSK	1	0	24.19	23.74	23.90	20.67	20.55	20.32	24.14	23.90	23.52	20.42	20.31	20.51
		1	1	**27.59**	27.30	26.99	24.16	24.02	23.95	**27.20**	27.02	26.91	**24.15**	23.78	24.05
		1	215	22.25	27.27	27.23	24.09	24.13	24.04	27.15	26.98	27.03	23.92	23.49	23.90
		1	216	22.50	26.37	23.26	20.61	20.71	20.53	23.92	23.79	23.67	20.23	20.23	20.17
		108	54	27.35	27.46	27.45	**24.19**	24.14	24.09	26.96	26.94	26.89	23.97	23.81	23.92
		216	0	26.32	26.39	26.47	23.08	23.22	23.17	26.05	26.25	26.06	22.84	22.85	22.87
	16QAM	1	0	23.94	23.63	23.56	20.84	20.93	20.46	24.31	23.81	23.55	20.64	20.56	20.86
		1	1	**26.59**	26.19	26.35	**23.46**	23.16	23.29	26.51	26.59	**26.71**	23.07	22.97	23.07
		1	215	22.23	26.29	26.19	23.25	23.29	23.04	26.41	26.30	26.11	**23.64**	23.04	23.26
		1	216	22.71	25.37	23.43	20.93	20.83	20.49	23.86	23.91	23.94	20.60	20.77	20.27
		108	54	26.37	26.44	26.37	23.10	23.20	23.16	26.26	26.25	26.09	22.87	22.84	22.87
		216	0	25.29	25.28	25.40	22.11	22.11	22.14	25.07	25.21	25.07	21.88	21.99	21.81
	64QAM	1	0	23.92	23.82	23.58	20.56	19.99	20.16	24.08	23.66	23.66	20.85	20.82	20.56
		1	1	24.87	24.99	24.66	21.53	21.29	21.39	25.01	**25.20**	24.98	21.59	**21.99**	21.55
		1	215	22.45	**25.07**	24.84	21.51	21.61	20.87	24.82	25.02	24.66	21.45	21.74	21.46
		1	216	22.37	24.85	23.35	20.33	20.12	20.45	23.49	23.60	23.75	20.61	20.71	20.57
		108	54	24.90	24.98	25.01	21.64	21.65	**21.73**	24.82	24.73	24.69	21.45	21.38	21.35
		216	0	24.76	24.75	24.88	21.58	21.59	21.69	24.59	24.74	24.57	21.32	21.45	21.38
	256QAM	1	0	23.01	22.74	22.69	19.29	19.23	18.98	23.17	23.23	22.75	19.27	19.44	**19.62**
		1	1	22.81	22.73	22.67	19.29	19.04	19.57	23.09	23.02	23.03	18.96	19.24	19.10
		1	215	22.40	22.54	22.78	19.59	**19.77**	19.20	22.95	**23.30**	22.89	19.02	19.01	19.05
		1	216	22.78	22.79	22.45	19.49	19.50	19.55	22.99	23.02	22.89	19.25	19.25	19.34
		108	54	22.74	22.93	23.00	19.67	19.71	19.70	22.86	22.73	22.64	19.48	19.33	19.40
		216	0	22.82	22.88	**24.05**	19.55	19.54	19.65	22.65	22.70	22.53	19.44	19.45	19.38

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				633000	633332	633666	633000	633332	633666	633000	633332	633666	633000	633332	633666
				3495.0	3500.0	3505.0	3495.0	3500.0	3505.0	3495.0	3500.0	3505.0	3495.0	3500.0	3505.0
90.0	BPSK	1	0	24.27	24.02	23.90	20.70	20.35	20.35	23.97	24.00	23.67	20.73	20.58	20.63
		1	1	**27.70**	27.33	27.42	24.04	24.04	23.87	**27.20**	27.12	27.09	**24.20**	24.10	24.03
		1	243	27.45	27.48	27.16	24.11	**24.15**	23.92	26.98	27.02	26.94	23.94	24.03	24.16
		1	244	23.92	23.63	23.96	20.53	20.52	20.34	23.83	23.95	23.49	20.61	20.40	20.37
		120	60	27.29	27.32	27.33	24.04	23.99	24.08	26.83	26.98	26.81	24.10	24.10	24.13
		243	0	26.86	26.84	26.77	23.42	23.44	23.52	26.69	26.67	26.64	23.56	23.52	23.61
	QPSK	1	0	24.13	24.01	23.94	20.56	20.51	20.36	23.84	23.98	23.75	20.53	20.37	20.33
		1	1	27.19	**27.45**	27.22	24.05	24.03	23.86	27.08	27.10	26.93	23.91	24.02	24.14
		1	243	27.22	27.31	26.97	**24.20**	23.95	23.95	26.99	**27.13**	26.91	24.00	23.92	**24.19**
		1	244	23.99	23.76	23.59	20.45	20.59	20.36	23.58	24.04	23.56	20.43	20.31	20.51
		120	60	27.34	27.37	27.33	24.00	23.98	24.09	26.86	27.04	26.79	24.11	24.06	24.17
		243	0	26.28	26.32	26.30	22.93	22.90	23.01	26.20	26.24	26.05	23.00	22.96	23.07
	16QAM	1	0	23.99	23.88	24.25	20.46	20.78	20.44	24.00	23.95	23.95	20.83	20.69	20.84
		1	1	26.22	26.15	**26.54**	**23.37**	23.04	23.06	**26.62**	26.59	26.33	23.25	23.38	**23.45**
		1	243	25.73	26.44	25.96	23.17	23.36	22.95	26.02	26.40	26.19	**23.45**	23.37	23.20
		1	244	23.81	23.70	23.40	20.86	20.43	20.50	23.78	23.80	23.34	20.78	20.74	20.91
		120	60	26.34	26.29	26.40	23.02	23.05	23.11	26.12	26.13	26.00	23.12	23.15	23.13
		243	0	25.29	25.29	25.33	21.89	21.94	22.01	25.16	25.29	25.06	22.02	21.95	22.05
	64QAM	1	0	23.92	23.62	23.67	20.30	20.40	20.24	23.87	24.00	23.94	20.86	21.03	21.11
		1	1	24.85	24.72	25.00	21.17	21.28	21.29	**25.00**	24.97	24.70	21.77	22.08	21.74
		1	243	**25.18**	24.94	24.39	21.07	**21.60**	21.02	24.28	24.91	24.71	22.00	**23.09**	21.93
		1	244	23.82	23.73	23.33	20.32	20.17	20.35	23.56	24.01	23.85	20.77	20.78	20.79
		120	60	24.78	24.80	24.90	21.48	21.49	21.59	24.75	24.60	24.63	21.62	21.52	21.60
		243	0	24.71	24.77	24.79	21.48	21.46	21.54	24.68	24.76	24.57	21.58	21.64	21.60
	256QAM	1	0	22.92	22.90	22.73	19.40	19.26	19.24	**23.25**	23.10	22.81	19.46	19.24	19.10
		1	1	22.53	22.81	22.92	19.35	19.41	19.49	23.15	23.15	22.85	19.34	19.38	19.60
		1	243	22.98	**23.19**	22.65	19.42	19.49	19.22	22.93	22.97	23.10	19.32	19.52	19.41
		1	244	22.69	22.83	22.26	19.55	19.38	19.24	22.92	22.95	23.03	19.15	19.40	18.95
		120	60	22.80	22.82	22.82	19.39	19.44	**19.56**	22.80	22.68	22.71	19.58	19.56	**19.62**
		243	0	22.79	22.78	22.82	19.42	19.43	19.54	22.73	22.75	22.69	19.56	**19.62**	19.59

OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				N/A	633332	N/A	N/A	633332	N/A	N/A	633332	N/A	N/A	633332	N/A
				N/A	3500.0	N/A	N/A	3500.0	N/A	N/A	3500.0	N/A	N/A	3500.0	N/A
100.0	BPSK	1	0		24.27			20.41			23.65			20.39	
		1	1		**27.68**			24.03			**26.92**			24.08	
		1	271		27.38			24.04			26.81			**24.15**	
		1	272		23.70			20.73			23.60			20.53	
		135	67		27.66			**24.14**			26.70			24.10	
		270	0		27.07			23.64			26.51			23.57	
	QPSK	1	0		24.03			20.26			23.85			20.59	
		1	1		27.41			24.04			**27.20**			**24.20**	
		1	271		**27.70**			**24.20**			26.63			24.01	
		1	272		23.71			20.50			23.49			20.40	
		135	67		27.69			24.06			26.73			23.98	
		270	0		26.61			23.07			26.04			23.10	
	16QAM	1	0		24.19			20.36			23.59			20.70	
		1	1		26.50			23.13			25.93			**23.53**	
		1	271		26.57			**23.15**			**26.14**			23.33	
		1	272		23.77			20.34			23.35			21.05	
		135	67		**26.73**			23.04			26.08			23.13	
		270	0		25.59			22.09			25.04			22.09	
	64QAM	1	0		24.23			20.12			23.82			20.73	
		1	1		25.10			**21.78**			**24.58**			**22.30**	
		1	271		24.63			21.53			24.49			22.18	
		1	272		23.43			20.35			23.70			20.86	
		135	67		**25.24**			21.61			**24.58**			21.57	
		270	0		25.11			21.62			24.57			21.60	
	256QAM	1	0		22.89			19.25			**22.90**			18.86	
		1	1		22.67			19.64			22.60			19.29	
		1	271		22.56			19.37			22.67			19.34	
		1	272		22.97			19.55			22.68			19.46	
		135	67		**23.12**			19.63			22.58			19.59	
		270	0		23.04			**19.67**			22.53			**19.61**	

8.16. 5G NR n77 (Part 27 3700-3980MHz)

Test Engineer ID:	39005	Test Date:	5/28/2021

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647333	656000	664666	647333	656000	664666	647333	656000	664666	647333	656000	664666
				3710.0	3840.0	3970.0	3710.0	3840.0	3970.0	3710.0	3840.0	3970.0	3710.0	3840.0	3970.0
20.0	BPSK	1	0	24.87	24.00	23.86	20.85	20.50	20.44	23.31	23.34	23.40	20.44	20.59	20.23
		1	1	27.30	26.41	27.47	**24.20**	22.84	23.62	26.76	26.96	26.97	23.99	24.10	23.64
		1	49	26.98	**27.65**	27.64	23.62	23.84	23.66	26.83	26.75	**27.13**	**24.11**	23.83	23.69
		1	50	23.57	22.60	23.95	20.69	20.06	20.06	23.02	20.01	23.66	20.16	20.68	20.08
		25	12	27.10	26.36	27.36	22.41	23.79	23.63	26.72	26.72	26.88	23.19	23.75	23.70
		50	0	27.23	26.54	26.96	23.40	23.08	23.23	26.04	26.28	26.36	23.28	22.98	23.18
	QPSK	1	0	24.18	23.54	23.21	20.77	20.38	20.12	23.36	23.56	23.15	20.83	20.39	20.11
		1	1	27.25	26.86	**27.70**	24.02	23.87	**24.12**	26.60	**27.20**	26.81	23.96	**24.20**	23.67
		1	49	27.33	27.20	27.45	23.97	23.94	23.61	26.76	26.74	27.04	23.83	23.98	23.51
		1	50	23.86	22.60	23.80	20.26	20.16	20.37	23.29	23.38	23.48	20.37	20.38	20.36
		25	12	27.02	26.43	27.41	21.86	23.85	23.77	26.64	26.76	26.74	23.70	23.70	23.66
		50	0	26.05	25.21	26.45	22.90	22.65	22.74	25.48	25.71	25.86	22.86	22.87	22.71
	16QAM	1	0	24.85	22.74	24.18	20.24	20.27	20.47	23.39	23.07	23.57	20.60	20.62	20.46
		1	1	26.33	25.99	**26.72**	23.20	22.80	23.05	26.10	25.02	**26.34**	**23.06**	22.98	23.00
		1	49	26.43	25.63	26.70	22.38	22.55	**24.17**	25.58	25.65	26.09	22.58	22.96	22.68
		1	50	23.50	23.11	23.34	20.34	20.19	20.23	23.16	23.25	23.55	20.20	20.72	20.29
		25	12	26.23	25.33	26.47	20.94	22.54	22.41	25.77	24.39	25.76	22.78	22.85	22.70
		50	0	25.20	24.26	25.38	21.89	21.55	21.82	24.48	24.84	25.26	21.92	21.83	21.75
	64QAM	1	0	23.97	23.28	23.79	20.61	19.95	20.13	22.74	22.47	23.14	20.41	20.33	20.25
		1	1	24.41	23.96	24.98	**21.72**	21.36	21.02	23.72	23.93	24.39	21.32	21.15	20.96
		1	49	24.37	23.98	25.02	20.86	21.04	21.67	23.85	23.82	24.13	20.49	21.25	21.13
		1	50	23.58	23.27	22.69	20.30	20.44	19.98	22.84	23.50	22.98	20.21	20.38	20.00
		25	12	24.54	24.27	**25.05**	20.47	21.36	21.08	24.00	24.19	24.29	21.21	21.08	21.14
		50	0	24.52	24.13	24.91	21.36	21.22	21.27	24.13	24.19	**24.49**	**21.47**	21.26	21.20
	256QAM	1	0	22.84	21.71	22.70	19.63	19.07	**20.01**	22.44	22.52	22.30	19.82	19.77	19.57
		1	1	22.80	**23.08**	22.80	**20.01**	19.70	19.67	22.32	22.07	22.50	19.63	19.54	19.75
		1	49	22.60	23.03	22.43	20.00	19.48	19.56	17.58	22.14	**22.60**	**21.09**	19.40	18.98
		1	50	22.80	22.92	22.58	19.58	19.62	19.53	22.12	22.12	20.04	19.57	19.72	19.71
		25	12	22.69	22.25	22.92	19.42	18.96	19.39	21.89	22.36	22.33	19.29	19.17	19.17
		50	0	22.50	22.03	22.97	19.49	19.10	19.37	22.17	22.29	22.34	19.47	19.02	19.16

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647666	656000	664333	647666	656000	664333	647666	656000	664333	647666	656000	664333
				3715.0	3840.0	3965.0	3715.0	3840.0	3965.0	3715.0	3840.0	3965.0	3715.0	3840.0	3965.0
30.0	BPSK	1	0	23.96	23.96	24.03	19.78	20.06	20.52	23.21	23.21	23.51	19.53	20.28	20.22
		1	1	27.50	27.34	26.73	23.59	23.75	23.87	26.89	26.50	27.03	23.85	23.80	**24.11**
		1	76	27.22	25.78	26.77	23.47	**23.90**	23.65	26.61	26.76	**27.20**	23.29	23.29	23.49
		1	77	24.19	23.76	23.25	19.99	20.27	20.03	24.75	23.20	23.50	19.92	19.97	19.97
		36	18	**27.56**	25.67	26.96	23.39	23.72	23.57	26.66	26.71	26.78	23.45	23.29	23.27
		75	0	27.04	25.29	26.62	22.87	23.21	23.20	26.05	26.11	26.33	20.65	22.88	22.90
	QPSK	1	0	24.00	23.56	23.87	19.96	19.98	20.65	23.06	23.19	23.41	20.60	20.37	20.15
		1	1	**27.70**	27.30	26.81	22.49	23.85	**24.20**	26.71	26.91	**27.11**	23.89	23.77	**24.20**
		1	76	27.53	25.70	26.89	23.90	23.96	24.01	26.70	26.74	26.85	23.34	23.64	23.77
		1	77	24.13	23.61	23.26	20.31	20.36	20.34	24.52	23.21	23.59	20.14	18.91	19.69
		36	18	27.55	25.64	26.86	23.45	23.73	23.62	26.54	26.65	26.72	23.38	23.50	23.18
		75	0	26.52	24.84	26.37	22.48	22.73	22.72	25.58	25.61	25.87	21.28	22.42	22.31
	16QAM	1	0	24.02	24.07	24.09	21.34	20.46	20.83	23.14	23.04	23.65	20.26	20.07	20.37
		1	1	26.33	26.30	25.60	**22.75**	22.72	22.67	25.69	25.28	25.75	22.61	22.52	22.60
		1	76	**26.83**	24.64	26.32	22.51	22.71	22.74	25.51	25.39	25.78	**22.96**	22.86	22.57
		1	77	24.41	23.85	23.01	19.70	20.56	20.43	24.36	23.43	23.26	20.57	19.72	19.76
		36	18	26.55	24.63	26.24	22.43	22.73	22.46	25.49	25.55	**25.95**	22.25	22.45	22.43
		75	0	25.61	23.89	25.26	21.51	21.67	21.67	24.62	24.63	24.80	20.45	21.34	21.29
	64QAM	1	0	23.97	23.50	24.10	19.95	19.70	20.23	22.82	23.20	23.27	20.08	19.92	20.07
		1	1	**25.23**	24.68	23.82	21.30	20.65	21.19	23.92	23.90	24.36	21.57	21.21	20.97
		1	76	24.80	23.64	24.83	20.65	**21.42**	20.96	23.16	23.83	**25.73**	20.93	20.95	20.64
		1	77	24.26	23.45	23.86	19.62	20.32	20.17	24.26	23.39	23.16	19.96	-0.45	19.94
		36	18	25.10	23.53	24.73	20.90	21.18	21.13	23.98	24.18	24.32	20.75	**23.29**	20.86
		75	0	25.10	23.43	24.77	21.03	21.24	21.20	24.16	24.16	24.30	19.83	20.78	20.97
	256QAM	1	0	22.99	22.42	22.19	19.52	19.46	19.54	22.57	22.21	22.64	19.39	19.68	19.23
		1	1	22.84	22.69	22.05	18.96	19.55	19.31	21.98	22.22	22.61	**19.72**	18.78	19.13
		1	76	22.79	21.34	22.48	19.06	19.41	19.10	22.28	22.46	21.98	19.31	18.97	18.88
		1	77	22.76	22.64	22.76	19.02	**19.84**	19.73	**23.37**	22.44	22.93	19.35	19.12	19.15
		36	18	23.08	21.29	22.83	18.89	19.17	19.06	22.01	22.17	22.24	19.05	18.91	18.84
		75	0	**23.10**	21.47	22.87	18.99	19.23	19.18	22.08	22.14	22.27	17.77	18.83	18.97

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648000	656000	664000	648000	656000	664000	648000	656000	664000	648000	656000	664000
				3720.0	3840.0	3960.0	3720.0	3840.0	3960.0	3720.0	3840.0	3960.0	3720.0	3840.0	3960.0
40.0	BPSK	1	0	24.02	24.05	23.51	20.12	20.21	20.66	23.19	23.01	23.36	20.39	20.03	20.78
		1	1	**27.70**	27.47	27.05	23.89	23.58	23.74	26.74	26.57	26.86	23.53	20.14	**24.20**
		1	104	27.64	27.50	26.53	23.61	**23.91**	23.61	27.19	26.81	**27.20**	24.06	23.76	23.82
		1	105	24.30	23.80	23.19	20.25	20.40	20.25	23.21	23.41	23.61	20.24	20.72	19.93
		50	25	27.68	27.33	26.55	23.64	23.07	23.78	26.62	26.55	26.65	23.44	23.64	23.48
		100	0	27.29	26.87	26.03	23.11	23.16	23.25	26.11	26.02	26.17	22.98	23.30	23.06
	QPSK	1	0	24.33	24.08	23.53	20.48	20.11	21.21	23.34	23.19	23.43	19.94	20.64	20.79
		1	1	27.43	**27.68**	26.89	23.62	23.73	**24.20**	26.76	26.68	26.80	21.18	20.51	23.95
		1	104	27.64	27.32	26.60	23.87	23.73	23.77	**26.93**	26.73	26.81	24.11	**24.14**	23.61
		1	105	24.31	23.86	22.98	20.29	20.32	20.12	23.12	23.03	23.36	20.28	20.08	19.84
		50	25	27.66	27.40	26.60	23.53	23.60	23.66	26.64	26.51	26.71	23.56	23.85	23.43
		100	0	26.78	26.35	25.52	22.66	22.71	22.81	25.64	25.54	25.72	22.51	22.81	22.40
	16QAM	1	0	24.26	24.30	23.46	20.25	20.25	20.53	22.73	22.38	23.30	19.87	19.97	20.58
		1	1	26.65	26.79	26.11	22.68	22.13	21.59	25.57	25.31	25.03	23.05	20.86	22.51
		1	104	**26.89**	26.46	25.76	**23.12**	22.96	22.35	24.90	25.34	**25.74**	23.25	**23.39**	22.61
		1	105	24.24	23.91	22.34	20.27	20.24	19.77	22.96	22.89	23.25	20.59	20.66	20.51
		50	25	26.74	26.30	25.54	22.60	22.72	22.68	25.47	25.52	25.68	22.46	22.67	22.46
		100	0	25.85	25.39	24.56	21.60	21.73	21.85	24.50	24.50	24.77	21.57	21.80	21.63
	64QAM	1	0	24.00	23.66	23.01	19.98	20.31	20.31	22.85	23.11	23.34	20.21	20.25	20.49
		1	1	24.93	24.63	23.93	21.25	20.86	21.15	24.00	24.17	24.16	21.28	20.89	20.73
		1	104	24.95	24.51	23.92	21.01	20.95	21.28	24.09	24.08	**24.29**	20.17	21.31	20.87
		1	105	23.90	23.45	22.69	20.37	20.06	20.27	23.42	23.07	23.28	20.34	20.04	20.02
		50	25	**25.29**	24.85	24.00	21.12	21.18	21.17	23.81	24.06	24.23	21.10	21.07	20.99
		100	0	25.25	24.84	23.94	21.14	21.21	**21.34**	24.03	24.03	24.19	21.09	**21.32**	21.01
	256QAM	1	0	23.05	23.22	22.24	19.29	19.03	**19.96**	22.13	22.72	22.06	19.28	19.20	19.66
		1	1	22.99	22.91	22.43	19.45	19.20	19.74	22.19	22.18	22.10	19.78	19.56	19.47
		1	104	23.25	22.57	22.08	19.32	19.45	19.61	22.53	22.75	22.46	**20.19**	19.40	19.54
		1	105	23.26	22.84	22.17	19.48	19.27	19.69	**22.85**	22.49	22.28	19.56	19.28	19.60
		50	25	**23.37**	22.93	21.99	19.15	19.09	19.22	21.85	21.98	22.23	18.95	19.21	18.87
		100	0	23.25	22.90	22.05	19.18	19.25	19.20	21.97	21.95	22.28	19.07	19.29	19.07

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648333	656000	663666	648333	656000	663666	648333	656000	663666	648333	656000	663666
				3725.0	3840.0	3955.0	3725.0	3840.0	3955.0	3725.0	3840.0	3955.0	3725.0	3840.0	3955.0
50.0	BPSK	1	0	23.39	23.60	24.76	20.08	19.82	20.36	23.04	23.14	23.81	20.16	20.35	20.46
		1	1	27.32	27.15	27.61	23.55	23.16	**24.02**	26.56	26.43	26.99	24.03	23.93	**24.20**
		1	131	27.14	27.28	27.67	23.26	23.65	23.51	26.67	26.68	**27.20**	23.76	23.42	23.80
		1	132	23.49	24.29	24.71	19.59	20.22	20.15	23.15	23.25	23.70	19.98	20.34	20.33
		64	32	26.94	27.35	**27.69**	23.38	23.58	23.54	26.51	26.64	26.85	21.77	23.82	23.75
		128	0	26.41	26.98	27.52	22.78	22.89	23.11	25.98	26.08	26.41	23.03	23.09	23.36
	QPSK	1	0	23.46	23.74	24.74	19.73	19.91	20.44	23.09	22.89	23.60	20.44	20.53	20.40
		1	1	27.13	27.32	27.57	23.69	23.38	**24.20**	26.64	26.61	**27.12**	23.95	23.79	23.93
		1	131	27.26	27.29	27.62	23.63	23.76	23.61	26.56	26.82	27.06	23.95	**24.12**	22.81
		1	132	23.52	24.30	24.81	19.82	20.10	20.03	23.09	23.39	23.49	20.26	20.48	20.31
		64	32	26.90	27.44	**27.70**	23.35	23.45	23.58	26.53	26.64	26.84	23.59	23.86	23.79
		128	0	25.99	26.44	27.10	22.33	22.45	22.58	25.55	25.61	25.89	22.68	22.85	21.39
	16QAM	1	0	23.02	24.04	24.36	19.64	19.97	19.88	23.16	22.66	23.25	20.12	20.04	20.66
		1	1	25.62	26.29	26.95	**22.89**	22.31	21.46	25.23	25.30	**26.09**	22.71	22.52	22.75
		1	131	26.04	26.84	**27.32**	22.65	22.47	22.65	25.36	25.41	25.78	22.59	22.70	22.59
		1	132	23.12	23.93	24.48	20.17	19.99	19.95	22.98	22.86	23.18	20.15	19.76	20.55
		64	32	25.80	26.52	27.11	22.36	22.51	22.53	25.50	25.63	25.89	22.45	**22.76**	22.71
		128	0	25.06	25.52	25.87	21.39	21.48	21.61	24.54	24.62	24.90	21.64	21.66	21.72
	64QAM	1	0	23.58	24.31	25.10	19.59	19.62	20.57	23.23	22.98	23.43	19.90	20.21	20.68
		1	1	24.53	25.10	26.07	20.73	21.08	**21.43**	24.04	23.76	**24.70**	21.21	20.79	21.56
		1	131	24.80	25.38	**26.76**	21.14	20.80	20.87	24.32	24.13	24.63	**21.77**	20.95	20.92
		1	132	23.58	24.53	24.96	19.43	20.05	19.60	22.89	22.82	23.50	20.54	20.10	19.95
		64	32	24.47	25.00	25.52	20.81	20.95	21.07	24.08	24.14	24.41	21.15	21.08	21.35
		128	0	24.48	25.02	25.52	20.83	20.94	21.11	24.00	24.15	24.36	21.12	21.11	21.31
	256QAM	1	0	22.11	22.48	23.00	19.13	19.06	19.22	22.19	21.92	**23.11**	19.24	19.54	19.81
		1	1	22.39	22.41	**25.37**	19.12	18.81	**19.84**	22.39	22.16	22.49	18.48	19.50	**20.12**
		1	131	22.15	23.05	24.31	19.47	18.81	19.38	22.69	22.00	23.09	19.52	19.37	19.29
		1	132	22.30	23.11	23.33	19.23	19.33	19.34	22.50	22.58	22.65	19.15	19.49	19.73
		64	32	22.59	23.01	23.51	18.82	19.02	19.06	22.09	22.10	22.38	18.99	19.07	19.35
		128	0	22.61	23.02	23.58	18.84	18.96	19.12	21.91	22.11	22.37	18.92	19.27	18.53

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648666	656000	663333	648666	656000	663333	648666	656000	663333	648666	656000	663333
				3730.0	3840.0	3950.0	3730.0	3840.0	3950.0	3730.0	3840.0	3950.0	3730.0	3840.0	3950.0
60.0	BPSK	1	0	23.20	23.21	24.20	20.17	19.94	20.58	22.95	23.38	23.48	20.31	20.58	20.68
		1	1	26.51	26.89	27.62	23.68	23.39	**24.00**	26.64	26.81	**27.05**	24.07	24.03	24.14
		1	160	26.84	27.36	27.55	23.58	23.80	23.62	26.68	27.00	27.03	23.85	**24.20**	23.80
		1	161	23.33	23.72	24.26	19.98	20.39	19.74	23.04	23.41	23.40	20.46	20.77	20.22
		81	40	26.84	27.06	**27.70**	23.57	23.49	23.66	26.64	26.71	26.78	23.72	23.96	23.87
		162	0	25.95	26.66	27.20	23.02	23.10	23.19	26.08	26.13	26.26	23.33	23.37	23.40
	QPSK	1	0	22.94	23.44	24.06	20.02	20.13	21.57	22.90	23.06	23.42	19.87	20.53	20.50
		1	1	26.34	26.91	27.55	23.59	23.50	24.09	26.60	26.63	**27.20**	23.89	23.62	23.62
		1	160	26.73	27.19	**27.70**	24.01	**24.20**	23.73	26.45	26.84	26.98	**23.99**	23.90	23.61
		1	161	23.30	23.94	24.22	20.18	20.48	19.89	22.99	23.37	23.34	20.60	20.59	20.05
		81	40	26.59	27.09	27.60	23.55	23.62	23.70	26.62	26.59	26.73	23.79	23.82	23.84
		162	0	25.60	26.06	26.68	22.43	22.54	22.65	25.62	25.63	25.80	22.85	22.90	22.97
	16QAM	1	0	22.86	23.41	24.36	20.00	20.04	20.82	22.91	22.79	23.31	20.25	19.40	20.38
		1	1	24.94	25.76	26.95	22.69	22.64	**23.17**	25.19	25.35	25.69	22.56	**23.03**	23.01
		1	160	25.84	25.06	**27.16**	22.63	23.16	22.23	25.26	25.48	25.41	21.51	22.84	22.25
		1	161	23.13	23.84	24.33	19.95	20.28	19.98	22.58	23.33	22.98	20.27	20.11	19.79
		81	40	25.54	26.14	26.73	22.55	22.51	22.70	25.69	25.67	**25.74**	22.87	22.90	22.92
		162	0	24.54	24.94	25.74	21.48	21.56	21.67	24.63	24.70	24.83	21.97	21.90	21.94
	64QAM	1	0	23.15	23.53	24.33	20.05	19.96	20.06	22.91	23.14	23.63	20.40	20.33	20.89
		1	1	24.48	24.77	25.19	20.73	21.07	**21.79**	24.00	24.18	24.27	20.97	21.32	20.63
		1	160	24.55	25.13	**25.43**	21.34	20.79	20.36	24.18	**24.38**	24.34	21.10	**21.62**	21.18
		1	161	23.41	23.94	24.50	19.55	20.43	19.68	22.80	23.22	23.23	20.14	20.03	20.61
		81	40	24.13	24.60	25.23	21.03	21.06	21.11	24.12	24.17	24.21	21.32	21.42	21.37
		162	0	24.06	24.65	25.21	20.89	21.04	21.13	24.16	24.22	24.29	21.50	21.43	21.46
	256QAM	1	0	22.09	22.23	22.71	19.56	19.76	19.11	22.08	22.45	22.83	19.58	19.79	19.77
		1	1	22.10	22.55	22.74	19.47	19.24	**20.45**	22.55	22.70	22.72	19.79	19.51	**20.21**
		1	160	22.22	**23.21**	23.20	19.45	20.00	18.81	22.59	22.61	**22.87**	19.31	19.43	19.44
		1	161	22.22	23.10	22.74	19.32	19.38	18.75	22.40	22.21	22.62	19.66	20.11	19.19
		81	40	22.06	22.60	23.11	19.00	19.06	19.24	22.17	22.23	22.26	19.30	19.39	19.53
		162	0	22.16	22.64	23.13	18.97	19.06	19.13	22.09	22.15	22.20	19.38	19.39	19.58

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649000	656000	663000	649000	656000	663000	649000	656000	663000	649000	656000	663000
				3735.0	3840.0	3945.0	3735.0	3840.0	3945.0	3735.0	3840.0	3945.0	3735.0	3840.0	3945.0
70.0	BPSK	1	0	23.26	23.53	24.14	19.75	20.04	20.55	23.12	23.11	23.81	20.29	20.53	20.91
		1	1	26.83	26.86	27.54	20.16	23.64	**23.90**	26.59	26.80	**27.20**	24.02	24.06	24.01
		1	187	26.83	**27.70**	27.06	23.53	23.74	23.35	26.63	26.89	26.84	**24.20**	24.17	23.61
		1	188	23.33	23.92	23.40	20.09	20.42	19.82	23.26	23.34	23.45	20.54	20.64	23.48
		90	45	26.81	27.30	27.27	23.50	23.57	23.74	26.69	26.80	26.89	23.84	23.32	23.85
		180	0	26.25	26.70	26.77	23.08	23.10	23.32	26.09	26.27	26.40	23.29	21.29	23.41
	QPSK	1	0	23.18	23.62	24.27	20.36	20.13	20.54	23.11	23.18	23.58	20.42	20.61	20.56
		1	1	26.60	27.00	27.66	20.35	23.69	23.83	26.57	26.79	**27.13**	23.65	23.78	23.78
		1	187	26.93	**27.68**	26.77	23.32	**24.20**	23.52	26.49	26.87	26.94	23.54	23.74	23.09
		1	188	23.45	23.86	23.52	20.09	20.47	19.89	23.01	23.40	23.20	20.44	20.29	23.54
		90	45	26.83	27.20	27.32	23.51	23.66	23.75	26.68	26.77	26.86	23.78	23.23	**23.80**
		180	0	25.79	26.22	26.27	22.61	22.61	22.75	25.55	25.71	25.92	22.88	22.88	22.93
	16QAM	1	0	23.11	23.91	24.05	20.47	19.58	20.27	22.46	22.87	23.23	20.26	20.41	20.51
		1	1	26.06	26.28	26.53	20.01	22.00	**22.93**	25.60	25.32	**26.01**	22.61	22.60	22.61
		1	187	25.82	**26.78**	25.73	22.71	22.79	22.38	25.17	25.63	25.46	22.46	22.75	22.26
		1	188	23.18	24.51	23.29	19.80	19.94	19.44	22.79	22.90	23.29	20.10	20.37	22.25
		90	45	25.70	26.23	26.28	22.47	22.57	22.84	25.63	25.73	25.86	22.71	22.82	**22.90**
		180	0	24.75	25.20	25.29	21.51	21.55	21.77	24.60	24.73	24.88	21.80	21.92	22.08
	64QAM	1	0	23.56	23.51	23.83	20.28	19.40	20.67	22.67	23.30	23.51	19.93	20.11	20.37
		1	1	24.47	24.51	24.46	20.17	20.90	**21.67**	24.05	24.10	24.40	21.53	21.00	21.12
		1	187	24.65	**25.10**	23.97	21.08	21.39	20.62	24.16	**24.47**	23.89	20.97	21.35	21.20
		1	188	23.58	24.08	23.37	20.07	20.01	19.99	22.81	23.03	23.19	20.67	20.33	21.43
		90	45	24.40	24.85	24.79	21.09	21.10	21.36	24.13	24.31	24.34	21.32	21.27	21.48
		180	0	24.37	24.71	24.77	21.11	20.94	21.23	24.12	24.26	24.36	21.38	21.38	**21.54**
	256QAM	1	0	22.12	22.05	23.37	19.49	18.76	**19.72**	22.38	22.60	22.75	19.26	19.58	19.54
		1	1	22.16	22.20	23.06	19.08	19.13	19.61	21.89	22.41	22.84	19.61	19.54	**20.15**
		1	187	22.14	23.22	22.45	19.31	19.64	18.93	22.65	22.90	**22.99**	19.26	19.47	19.39
		1	188	22.29	22.71	22.46	18.78	19.43	18.79	22.24	22.65	22.71	19.92	19.43	19.46
		90	45	22.23	**24.80**	22.79	19.02	19.08	19.40	22.16	22.23	22.38	19.36	18.84	19.44
		180	0	22.27	22.79	22.74	19.11	19.15	19.29	22.06	22.23	22.36	19.04	19.38	19.50

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649333	656000	662666	649333	656000	662666	649333	656000	662666	649333	656000	662666
				3740.0	3840.0	3940.0	3740.0	3840.0	3940.0	3740.0	3840.0	3940.0	3740.0	3840.0	3940.0
80.0	BPSK	1	0	23.47	23.53	24.01	20.27	20.22	20.66	23.33	23.42	23.51	20.38	20.47	20.53
		1	1	26.77	26.98	**27.50**	23.77	23.83	**24.10**	26.71	26.82	**27.20**	23.81	23.95	**24.20**
		1	215	26.78	27.28	26.94	23.34	23.68	23.17	26.40	26.70	22.83	23.96	23.82	22.46
		1	216	23.21	26.60	23.17	20.01	20.06	19.68	23.10	22.90	22.84	20.17	19.92	19.99
		108	54	26.69	27.19	27.21	23.52	23.50	23.87	26.52	26.68	26.83	23.93	23.78	22.94
		216	0	26.14	26.65	26.76	23.06	23.02	23.25	26.00	26.62	22.79	23.25	23.23	22.96
	QPSK	1	0	23.60	23.58	24.08	20.19	20.42	20.42	23.25	23.30	23.47	20.21	20.10	20.65
		1	1	26.59	26.96	27.55	23.91	23.92	**24.20**	26.82	26.60	**26.91**	23.84	**24.10**	23.91
		1	215	26.51	**27.70**	26.80	23.61	23.80	23.33	26.56	26.82	22.99	23.94	23.86	22.43
		1	216	23.20	26.13	23.21	19.84	20.03	19.79	23.08	23.47	22.87	20.09	19.49	20.07
		108	54	26.65	27.12	27.21	23.51	23.43	23.82	26.56	26.63	26.90	23.88	23.67	22.47
		216	0	25.66	26.13	26.24	22.61	22.53	22.77	25.52	26.56	22.11	22.89	22.79	23.00
	16QAM	1	0	23.24	23.99	24.07	20.51	20.02	20.27	23.04	23.19	23.20	19.98	20.77	20.41
		1	1	25.81	26.35	26.78	22.80	**22.84**	22.82	25.57	25.60	**25.89**	22.58	22.81	**22.98**
		1	215	25.69	**26.96**	25.87	22.39	22.54	22.31	25.37	25.57	22.48	22.74	22.52	21.56
		1	216	23.13	25.10	23.24	19.72	19.88	19.50	22.83	23.39	22.49	20.16	19.90	19.83
		108	54	25.60	26.09	26.16	22.54	22.46	22.81	25.47	25.67	25.87	22.84	22.84	21.58
		216	0	24.94	24.83	25.22	21.54	21.54	21.74	24.53	25.51	21.16	21.85	21.78	21.98
	64QAM	1	0	23.46	24.01	23.76	20.08	20.21	20.35	23.16	22.76	23.59	20.40	20.24	20.03
		1	1	24.69	24.13	24.76	21.30	21.25	**21.42**	24.22	24.22	24.35	**21.65**	21.32	21.48
		1	215	24.28	**25.29**	23.99	20.96	21.14	20.56	24.02	**24.38**	22.60	21.26	21.42	20.69
		1	216	23.62	24.57	23.09	19.58	20.02	19.64	22.91	23.30	22.90	20.05	20.26	19.71
		108	54	24.66	24.66	24.66	21.14	21.02	21.40	24.02	24.12	23.71	21.31	21.39	21.04
		216	0	24.30	24.61	24.70	21.04	21.01	21.23	24.00	24.22	20.77	21.31	21.28	21.33
	256QAM	1	0	22.06	22.29	23.15	19.15	19.45	19.62	22.43	21.93	**22.49**	19.21	19.82	19.74
		1	1	22.21	22.28	**23.24**	19.71	19.16	**19.91**	22.48	22.36	22.48	**19.91**	19.32	19.80
		1	215	22.05	21.98	22.50	18.93	19.25	18.67	22.06	22.41	21.87	19.80	19.45	19.08
		1	216	22.07	22.60	22.13	19.20	19.08	19.13	22.12	22.48	21.99	19.20	19.52	19.04
		108	54	22.09	22.81	22.68	19.03	19.10	19.34	22.13	22.12	21.87	19.45	19.29	19.01
		216	0	22.12	22.61	22.75	19.11	19.03	19.29	22.03	22.19	18.66	19.36	19.36	19.40

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649666	656000	662333	649666	656000	662333	649666	656000	662333	649666	656000	662333
				3745.0	3840.0	3935.0	3745.0	3840.0	3935.0	3745.0	3840.0	3935.0	3745.0	3840.0	3935.0
90.0	BPSK	1	0	23.14	23.49	24.23	20.13	20.08	20.27	23.76	23.11	23.20	20.40	20.25	20.72
		1	1	26.59	27.00	**27.67**	23.69	23.70	**24.20**	26.98	26.79	27.02	**24.14**	23.97	23.99
		1	243	26.49	27.52	26.87	23.39	23.82	23.13	26.60	26.84	26.66	23.58	23.88	23.59
		1	244	23.01	24.27	23.29	19.90	20.32	19.93	22.90	23.24	22.86	19.86	19.97	20.01
		120	60	26.61	27.16	27.25	23.49	23.36	23.80	26.78	26.76	**27.20**	23.90	23.64	24.01
		243	0	26.07	26.60	26.74	23.00	22.89	23.21	26.25	26.00	26.53	23.26	23.25	23.50
	QPSK	1	0	23.29	23.19	24.25	20.48	20.17	20.42	23.85	23.42	23.22	20.10	20.77	20.35
		1	1	26.62	26.94	**27.70**	23.72	**23.92**	23.79	26.95	26.83	26.40	23.50	23.82	**24.20**
		1	243	26.15	27.54	26.80	23.30	23.69	23.36	26.49	26.91	26.56	23.39	23.60	23.14
		1	244	23.14	24.01	23.20	19.84	20.15	19.83	23.14	23.26	23.03	20.03	20.16	19.68
		120	60	26.62	27.05	27.25	23.43	23.43	23.82	26.79	26.80	**27.16**	23.85	23.69	23.93
		243	0	25.56	26.09	26.24	22.42	22.44	22.71	24.51	25.56	26.00	22.73	22.75	22.92
	16QAM	1	0	23.21	23.64	24.14	20.43	20.04	20.30	23.46	22.83	23.41	20.30	20.18	20.34
		1	1	25.74	26.19	26.56	22.82	22.47	22.90	25.88	25.75	25.96	23.07	22.80	**23.14**
		1	243	25.56	**26.91**	25.72	22.10	**22.98**	22.19	25.51	**26.14**	25.36	22.85	22.58	22.08
		1	244	23.02	24.19	23.20	19.57	20.18	19.45	23.02	22.88	22.98	19.75	20.07	19.94
		120	60	25.60	26.07	26.34	22.45	22.43	22.79	25.78	25.79	26.11	22.88	22.73	22.99
		243	0	24.63	25.14	25.24	21.47	21.50	21.71	21.86	24.67	25.01	21.71	21.80	21.94
	64QAM	1	0	23.48	23.86	23.86	20.21	20.06	20.03	23.62	23.00	23.32	20.43	19.86	20.92
		1	1	24.39	24.98	24.86	20.67	21.06	21.01	**24.77**	24.11	24.44	21.56	**22.04**	21.42
		1	243	25.18	25.56	23.94	20.56	**21.29**	20.89	24.30	24.30	24.22	21.32	21.59	21.28
		1	244	23.08	24.05	22.96	19.87	19.77	19.85	22.69	23.20	23.09	20.21	20.02	19.87
		120	60	24.37	**27.05**	24.77	20.93	20.89	21.25	24.21	24.27	24.62	21.39	21.19	21.44
		243	0	24.04	24.52	24.79	20.95	20.96	21.26	24.69	24.21	24.51	21.25	21.24	21.40
	256QAM	1	0	22.05	22.14	23.40	19.66	19.79	19.49	22.70	22.31	22.73	19.19	19.61	19.66
		1	1	21.99	22.03	23.18	**19.81**	19.37	19.79	22.10	22.68	**22.85**	19.65	**20.10**	20.08
		1	243	22.29	23.11	22.37	19.09	19.60	19.36	21.85	22.71	22.41	19.56	19.52	18.99
		1	244	21.87	22.73	22.42	18.89	19.36	19.17	22.01	22.59	22.32	19.40	19.40	19.14
		120	60	22.12	**27.21**	22.76	18.90	18.80	19.10	20.35	22.21	22.57	19.33	19.20	19.42
		243	0	22.10	22.60	22.74	18.90	18.90	19.04	22.09	22.20	22.48	19.27	19.24	19.41

OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				650000	656000	662000	650000	656000	662000	650000	656000	662000	650000	656000	662000
				3750.0	3840.0	3930.0	3750.0	3840.0	3930.0	3750.0	3840.0	3930.0	3750.0	3840.0	3930.0
100.0	BPSK	1	0	23.19	23.48	24.15	20.34	20.35	20.63	22.89	22.64	22.87	20.26	20.68	20.55
		1	1	26.56	26.77	**27.67**	23.67	23.72	23.93	26.61	26.60	27.06	23.91	24.00	24.00
		1	271	26.24	27.37	26.75	23.56	**24.06**	23.59	26.50	**27.20**	26.69	23.34	23.58	23.57
		1	272	22.90	23.99	23.22	19.50	20.47	20.00	22.49	23.57	23.04	20.01	20.40	19.80
		135	67	26.40	26.95	27.18	21.24	23.60	23.91	26.61	26.45	27.12	23.44	23.40	**24.04**
		270	0	25.93	26.53	26.75	23.06	23.12	23.35	25.95	26.04	26.40	23.13	23.07	23.36
	QPSK	1	0	23.20	24.17	24.14	20.35	20.36	20.55	22.90	22.70	23.02	20.30	20.53	20.11
		1	1	26.81	26.71	27.59	23.69	23.85	**24.20**	26.57	26.66	26.96	23.49	23.84	**24.20**
		1	271	26.08	**27.70**	26.73	23.66	24.13	23.71	26.37	26.82	26.84	23.60	23.52	23.55
		1	272	22.91	24.27	23.11	20.02	20.59	19.96	22.57	23.49	22.94	18.92	20.35	19.69
		135	67	26.45	27.10	27.16	23.50	22.56	23.95	26.57	26.46	**27.08**	23.72	23.36	23.99
		270	0	25.46	26.05	26.29	22.52	22.60	22.83	25.40	25.50	25.97	22.70	22.61	22.96
	16QAM	1	0	22.97	22.02	24.05	19.98	19.94	20.14	22.87	22.15	23.26	20.24	20.21	20.65
		1	1	25.43	26.35	26.50	22.91	22.54	**23.01**	25.50	25.53	25.65	22.51	22.83	**23.06**
		1	271	25.18	**27.17**	25.63	22.45	22.95	22.16	25.22	25.97	23.93	22.19	22.69	22.32
		1	272	22.80	24.46	23.09	19.96	20.16	19.86	22.64	23.45	23.09	19.77	19.88	19.42
		135	67	25.46	26.06	26.27	22.45	22.62	22.91	25.60	25.49	**26.09**	22.70	22.40	22.91
		270	0	24.39	25.01	25.28	21.58	21.60	21.85	24.43	24.52	24.95	21.69	21.64	21.98
	64QAM	1	0	23.45	24.20	23.80	20.15	20.04	20.46	22.93	22.43	23.37	19.95	20.33	20.02
		1	1	24.50	24.80	24.75	21.13	21.02	**21.49**	24.05	22.23	24.14	21.18	21.02	21.45
		1	271	24.10	**25.08**	23.84	20.99	21.34	20.57	23.95	24.18	23.70	21.10	21.20	20.81
		1	272	23.09	24.49	22.84	19.87	20.23	19.97	22.36	23.05	22.88	20.53	20.31	19.47
		135	67	24.27	24.60	24.68	20.99	20.98	21.47	20.92	23.69	**24.66**	20.72	21.10	21.00
		270	0	23.96	24.57	24.77	21.01	21.08	21.32	23.65	23.98	24.55	21.19	21.09	**21.48**
	256QAM	1	0	22.07	22.05	**23.29**	**19.98**	19.77	19.79	22.08	22.06	22.30	19.28	19.42	19.45
		1	1	21.90	22.40	23.10	19.32	19.45	19.63	22.18	21.97	**22.73**	19.45	**19.85**	19.34
		1	271	21.70	23.00	22.25	19.16	19.36	18.99	22.29	22.22	21.89	18.81	19.63	19.77
		1	272	21.90	22.83	22.32	18.97	19.71	18.79	21.91	22.16	22.25	19.21	19.72	19.05
		135	67	21.95	22.62	22.69	19.00	19.02	19.48	22.07	22.01	22.60	19.28	18.93	19.72
		270	0	21.93	22.52	22.75	19.07	19.15	19.41	21.71	22.03	22.59	19.19	19.05	19.51

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested. Worst-case plots (highest bandwidth) are reported only.

5G NR n5

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n5	5MHz, BPSK	25/0	836.5	4.489	4.99
	5MHz, QPSK			4.482	4.88
	5MHz, 16QAM			4.486	4.96
	10MHz, BPSK	50/0		8.934	9.64
	10MHz, QPSK			8.931	9.51
	10MHz, 16QAM			8.926	9.58
	15MHz, BPSK	75/0		13.363	14.23
	15MHz, QPSK			13.469	14.26
	15MHz, 16QAM			13.469	14.19
	20MHz, BPSK	100/0		17.858	18.92
	20MHz, QPSK			17.899	18.97
	20MHz, 16QAM			17.876	18.80
	20MHz, BPSK	1/0		0.238	0.39

LTE BAND 7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 7	5MHz, QPSK	25/0	2535.0	4.514	4.96
	5MHz, 16QAM			4.450	4.95
	10MHz, QPSK	50/0		8.968	9.80
	10MHz, 16QAM			8.954	9.73
	15MHz, QPSK	75/0		13.452	14.56
	15MHz, 16QAM			13.434	14.60
	20MHz, QPSK	100/0		17.888	19.32
	20MHz, 16QAM			17.899	19.30
	20MHz, QPSK	1/0		0.261	0.44

5G NR n7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n7	5MHz, BPSK	25/0	2535.0	4.466	4.94
	5MHz, QPSK			4.470	4.90
	5MHz, 16QAM			4.472	4.90
	10MHz, BPSK	50/0		8.907	9.45
	10MHz, QPSK			8.935	9.50
	10MHz, 16QAM			8.928	9.56
	15MHz, BPSK	75/0		13.418	14.12
	15MHz, QPSK			13.404	14.20
	15MHz, 16QAM			13.416	14.24
	20MHz, BPSK	100/0		17.838	18.81
	20MHz, QPSK			17.903	18.76
	20MHz, 16QAM			17.847	18.67
	25MHz, BPSK	128/0		22.785	24.04
	25MHz, QPSK			22.838	23.92
	25MHz, 16QAM			22.866	23.90
	30MHz, BPSK	160/0		28.520	29.75
	30MHz, QPSK			28.515	29.71
	30MHz, 16QAM			28.477	29.73
	40MHz, BPSK	216/0		38.463	40.21
	40MHz, QPSK			38.503	40.18
	40MHz, 16QAM			38.497	40.17
	40MHz, BPSK	1/0		0.282	0.463

LTE BAND 12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 12	1.4MHz, QPSK	6/0	707.5	1.082	1.23
	1.4MHz,16QAM			1.085	1.23
	3MHz, QPSK	15/0		2.695	2.98
	3MHz, 16QAM			2.697	2.99
	5MHz, QPSK	25/0		4.489	4.92
	5MHz, 16QAM			4.485	4.94
	10MHz, QPSK	50/0		8.966	9.79
	10MHz, 16QAM			8.934	9.69
	10MHz, QPSK	1/0		0.237	0.36

5G NR n12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n12	5MHz, BPSK	25/0	707.5	4.458	4.84
	5MHz, QPSK			4.466	4.85
	5MHz, 16QAM			4.475	4.94
	10MHz, BPSK	50/0		8.899	9.46
	10MHz, QPSK			8.879	9.51
	10MHz, 16QAM			8.960	9.57
	15MHz, BPSK	75/0		13.402	14.15
	15MHz, QPSK			13.416	14.18
	15MHz, 16QAM			13.410	14.23
	15MHz, BPSK	1/0		0.241	0.39

LTE BAND 13

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 13	5MHz, QPSK	25/0	782.0	4.491	4.77
	5MHz, 16QAM			4.496	4.98
	10MHz, QPSK	50/0		8.945	9.75
	10MHz, 16QAM			8.935	9.69
	10MHz, QPSK	1/0		0.246	0.38

LTE BAND 14

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 14	5MHz, QPSK	25/0	793.0	4.515	4.94
	5MHz, 16QAM			4.497	4.96
	10MHz, QPSK	50/0		8.960	9.82
	10MHz, 16QAM			8.934	9.75
	10MHz, QPSK	1/0		0.251	0.42

LTE BAND 17

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 17	5MHz, QPSK	25/0	710.0	4.506	4.94
	5MHz, 16QAM			4.495	4.95
	10MHz, QPSK	50/0		8.942	9.76
	10MHz, 16QAM			8.946	9.72
	10MHz, QPSK	1/0		0.252	0.39

LTE BAND 25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 25	1.4MHz, QPSK	6/0	1882.5	1.081	1.23
	1.4MHz,16QAM			1.084	1.23
	3MHz, QPSK	15/0		2.698	3.00
	3MHz, 16QAM			2.695	2.99
	5MHz, QPSK	25/0		4.490	4.94
	5MHz, 16QAM			4.486	4.92
	10MHz, QPSK	50/0		8.953	9.80
	10MHz, 16QAM			8.946	9.75
	15MHz, QPSK	75/0		13.461	14.54
	15MHz, 16QAM			13.447	14.56
	20MHz, QPSK	100/0		17.920	19.44
	20MHz, 16QAM			17.904	20.02
	20MHz, QPSK	1/0		0.267	0.45

5G NR n25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n25	5MHz, BPSK	25/0	1882.5	4.463	4.84
	5MHz, QPSK			4.468	4.87
	5MHz, 16QAM			4.480	4.97
	10MHz, BPSK	50/0		8.902	9.51
	10MHz, QPSK			8.891	9.55
	10MHz, 16QAM			8.654	9.60
	15MHz, BPSK	75/0		13.400	14.21
	15MHz, QPSK			13.414	14.28
	15MHz, 16QAM			13.429	14.26
	20MHz, BPSK	100/0		17.905	18.76
	20MHz, QPSK			17.887	18.76
	20MHz, 16QAM			17.768	18.81
	25MHz, BPSK	128/0		22.898	24.09
	25MHz, QPSK			22.891	23.96
	25MHz, 16QAM			22.843	23.94
	30MHz, BPSK	160/0		28.481	29.76
	30MHz, QPSK			28.541	29.82
	30MHz, 16QAM			28.527	29.87
	40MHz, BPSK	216/0		38.447	40.24
	40MHz, QPSK			38.546	40.34
	40MHz, 16QAM			38.427	40.27
	40MHz, BPSK	1/0		0.280	0.46

LTE BAND 26 (PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26	1.4MHz, QPSK	6/0	819.0	1.083	1.19
	1.4MHz,16QAM			1.083	1.20
	3MHz, QPSK	15/0		2.696	2.87
	3MHz, 16QAM			2.698	2.97
	5MHz, QPSK	25/0		4.485	4.94
	5MHz, 16QAM			4.490	4.89
	10MHz, QPSK	50/0		8.968	9.51
	10MHz, 16QAM			8.955	9.33
	10MHz, QPSK	1/0		0.245	0.40

LTE BAND 26 (PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26	1.4MHz, QPSK	6/0	836.5	1.088	1.23
	1.4MHz,16QAM			1.093	1.24
	3MHz, QPSK	15/0		2.696	3.00
	3MHz, 16QAM			2.699	3.00
	5MHz, QPSK	25/0		4.520	4.96
	5MHz, 16QAM			4.500	4.98
	10MHz, QPSK	50/0		8.959	9.82
	10MHz, 16QAM			8.975	9.75

LTE BAND 30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 30	5MHz, QPSK	25/0	2310.0	4.493	4.91
	5MHz, 16QAM			4.495	4.89
	10MHz, QPSK	50/0		8.926	9.64
	10MHz, 16QAM			8.943	9.73
	10MHz, QPSK	1/0		0.255	0.40

5G NR n30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n30	5MHz, BPSK	25/0	2310.0	4.485	4.89
	5MHz, QPSK			4.457	4.78
	5MHz, 16QAM			4.476	4.85
	10MHz, BPSK	50/0		8.905	9.35
	10MHz, QPSK			8.888	9.39
	10MHz, 16QAM			8.924	9.33
	10MHz, BPSK	1/0		0.227	0.35

LTE BAND 41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 41	5MHz, QPSK	25/0	2593.0	4.514	4.70
	5MHz, 16QAM			4.508	4.89
	10MHz, QPSK	50/0		8.935	9.67
	10MHz, 16QAM			8.967	9.44
	15MHz, QPSK	75/0		13.408	14.31
	15MHz, 16QAM			13.447	14.33
	20MHz, QPSK	100/0		17.741	18.83
	20MHz, 16QAM			17.859	18.88
	20MHz, QPSK	1/0		0.299	0.48

5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41 (FCC)	20MHz, BPSK	50/0	2593.0	17.900	18.97
	20MHz, QPSK			17.871	19.10
	20MHz, 16QAM			17.875	18.91
	30MHz, BPSK	75/0		26.775	28.06
	30MHz, QPSK			26.747	28.14
	30MHz, 16QAM			26.812	28.10
	40MHz, BPSK	100/0		35.738	37.14
	40MHz, QPSK			35.696	37.33
	40MHz, 16QAM			35.640	37.12
	50MHz, BPSK	128/0		45.565	47.52
	50MHz, QPSK			45.650	47.48
	50MHz, 16QAM			45.609	47.37
	60MHz, BPSK	162/0		57.728	59.75
	60MHz, QPSK			57.808	59.84
	60MHz, 16QAM			57.807	59.69
	80MHz, BPSK	216/0		76.787	79.54
	80MHz, QPSK			76.903	79.61
	80MHz, 16QAM			76.850	79.59
	90MHz, BPSK	243/0		86.391	89.63
	90MHz, QPSK			86.641	89.73
	90MHz, 16QAM			86.571	89.66
	100MHz, BPSK	270/0		95.896	99.54
	100MHz, QPSK			96.061	99.55
	100MHz, 16QAM			95.930	99.60
	100MHz, QPSK	1/0		0.597	0.92

LTE BAND 48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 48	5MHz, QPSK	25/0	3625.0	4.467	4.69
	5MHz, 16QAM			4.477	4.83
	10MHz, QPSK	50/0		8.960	9.66
	10MHz, 16QAM			8.940	9.43
	15MHz, QPSK	75/0		13.357	14.27
	15MHz, 16QAM			13.402	14.14
	20MHz, QPSK	100/0		17.837	18.94
	20MHz, 16QAM			17.807	19.23
	20MHz, QPSK	1/0		0.261	0.38

LTE BAND 66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4MHz, QPSK	6/0	1745.0	1.084	1.21
	1.4MHz,16QAM			1.092	1.23
	3MHz, QPSK	15/0		2.685	2.96
	3MHz, 16QAM			2.686	2.93
	5MHz, QPSK	25/0		4.486	4.83
	5MHz, 16QAM			4.479	4.86
	10MHz, QPSK	50/0		8.956	9.56
	10MHz, 16QAM			8.956	9.67
	15MHz, QPSK	75/0		13.477	14.23
	15MHz, 16QAM			13.467	14.13
	20MHz, QPSK	100/0		17.924	19.02
	20MHz, 16QAM			17.928	18.89
	20MHz, QPSK	1/0		0.286	0.48

5G NR n66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n66	5MHz, BPSK	25/0	1745.0	4.466	4.84
	5MHz, QPSK			4.469	4.88
	5MHz, 16QAM			4.481	4.97
	10MHz, BPSK	50/0		8.915	9.50
	10MHz, QPSK			8.893	9.53
	10MHz, 16QAM			8.955	9.63
	15MHz, BPSK	75/0		13.411	14.19
	15MHz, QPSK			13.426	14.27
	15MHz, 16QAM			13.466	14.23
	20MHz, BPSK	100/0		17.901	18.86
	20MHz, QPSK			17.858	18.80
	20MHz, 16QAM			17.814	18.89
	30MHz, BPSK	160/0		28.563	29.82
	30MHz, QPSK			28.549	29.83
	30MHz, 16QAM			28.478	29.87
	40MHz, BPSK	216/0		38.481	40.27
	40MHz, QPSK			38.492	40.31
	40MHz, 16QAM			38.405	40.28
	40MHz, QPSK	1/0		0.282	0.46

LTE BAND 71

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 71	5MHz, QPSK	25/0	680.5	4.491	4.90
	5MHz, 16QAM			4.478	4.90
	10MHz, QPSK	50/0	683	8.974	9.78
	10MHz, 16QAM			8.977	9.75
	15MHz, QPSK	75/0	680.5	13.409	14.61
	15MHz, 16QAM			13.412	14.51
	20MHz, QPSK	100/0	683	17.852	19.33
	20MHz, 16QAM			17.870	19.20
	20MHz, QPSK	1/0	680.5	0.263	0.44

5G NR n71

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n71	5MHz, BPSK	25/0	680.5	4.456	4.70
	5MHz, QPSK			4.463	4.70
	5MHz, 16QAM			4.459	4.70
	10MHz, BPSK	50/0	683	8.910	9.25
	10MHz, QPSK			8.893	9.28
	10MHz, 16QAM			8.911	9.30
	15MHz, BPSK	75/0	680.5	13.352	13.87
	15MHz, QPSK			13.357	13.86
	15MHz, 16QAM			13.375	13.87
	20MHz, BPSK	100/0	683	17.822	18.47
	20MHz, QPSK			17.816	18.47
	20MHz, 16QAM			17.811	18.46
	20MHz, QPSK	1/0	680.5	0.240	0.42

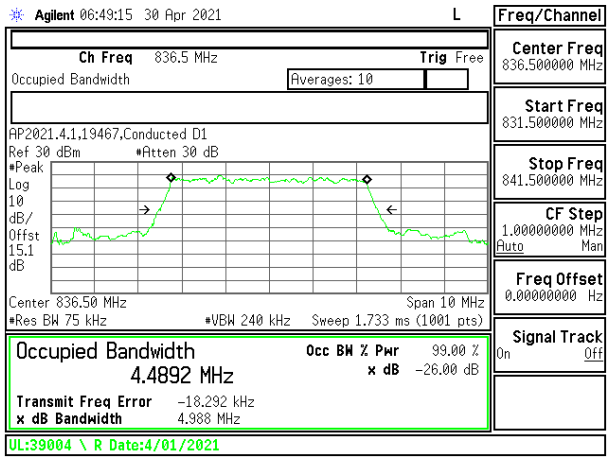
5G NR n77 (Part 27 3450-3550MHz)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (FCC Part 27 3450-3550MHz)	20MHz, BPSK	50/0	3500.0	17.863	19.36
	20MHz, QPSK			17.885	19.11
	20MHz, 16QAM			17.935	19.20
	30MHz, BPSK	75/0		26.777	28.22
	30MHz, QPSK			26.794	28.49
	30MHz, 16QAM			26.822	28.28
	40MHz, BPSK	100/0		35.682	37.66
	40MHz, QPSK			35.683	37.56
	40MHz, 16QAM			35.735	37.79
	50MHz, BPSK	128/0		45.803	48.01
	50MHz, QPSK			45.726	47.94
	50MHz, 16QAM			45.717	48.02
	60MHz, BPSK	162/0		57.868	60.32
	60MHz, QPSK			57.829	60.44
	60MHz, 16QAM			57.863	60.42
	70MHz, BPSK	180/0		64.442	67.12
	70MHz, QPSK			64.187	67.08
	70MHz, 16QAM			64.228	67.10
	80MHz, BPSK	216/0		76.894	80.43
	80MHz, QPSK			77.009	80.51
	80MHz, 16QAM			77.169	80.50
	90MHz, BPSK	243/0		86.883	90.49
	90MHz, QPSK			86.760	90.37
	90MHz, 16QAM			86.605	90.37
	100MHz, BPSK	270/0		96.338	100.55
	100MHz, QPSK			96.307	100.44
	100MHz, 16QAM			96.384	100.60
	100MHz, BPSK	1/0		0.596	1.00

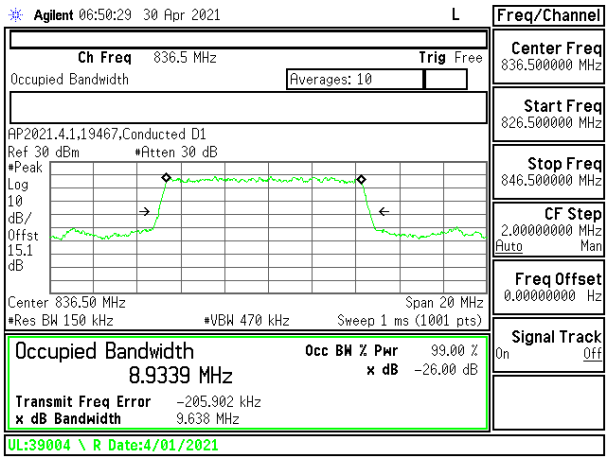
5G NR n77 (Part 27 3700-3980MHz)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (FCC Part 27 3700-3980MHz)	20MHz, BPSK	50/0	3840.0	17.884	19.29
	20MHz, QPSK			17.827	19.21
	20MHz, 16QAM			17.885	19.11
	30MHz, BPSK	75/0		26.714	28.29
	30MHz, QPSK			26.738	28.25
	30MHz, 16QAM			26.801	28.47
	40MHz, BPSK	100/0		35.765	37.49
	40MHz, QPSK			35.684	37.49
	40MHz, 16QAM			35.681	37.53
	50MHz, BPSK	128/0		45.727	47.85
	50MHz, QPSK			45.744	47.83
	50MHz, 16QAM			45.712	47.88
	60MHz, BPSK	162/0		57.695	60.47
	60MHz, QPSK			57.840	60.44
	60MHz, 16QAM			57.894	60.77
	70MHz, BPSK	180/0		64.408	67.05
	70MHz, QPSK			64.117	67.01
	70MHz, 16QAM			64.322	67.26
	80MHz, BPSK	216/0		76.906	80.35
	80MHz, QPSK			76.919	80.44
	80MHz, 16QAM			77.223	80.42
	90MHz, BPSK	243/0		86.784	90.37
	90MHz, QPSK			86.643	90.31
	90MHz, 16QAM			86.515	90.40
	100MHz, BPSK	270/0		96.271	100.58
	100MHz, QPSK			96.412	100.40
	100MHz, 16QAM			96.353	100.58
	100MHz, QPSK	1/0		0.596	1.05

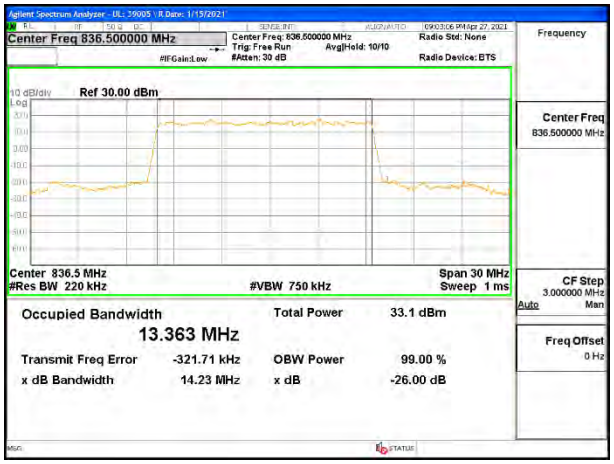
9.1.1. 5G NR n5



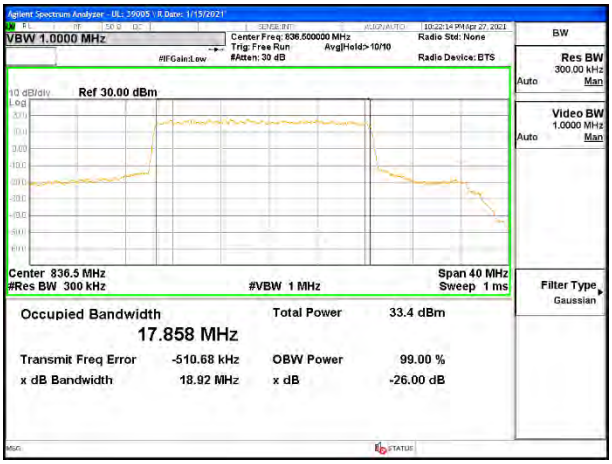
5G NR n5 5MHz BPSK Middle Channel RB25-0



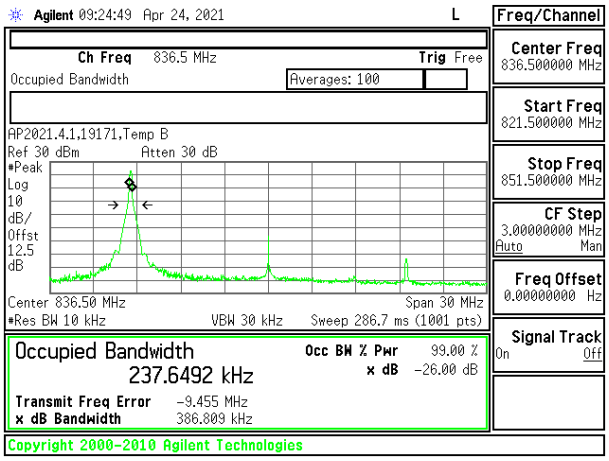
5G NR n5 10MHz BPSK Middle Channel RB50-0



5G NR n5 15MHz BPSK Middle Channel RB75-0



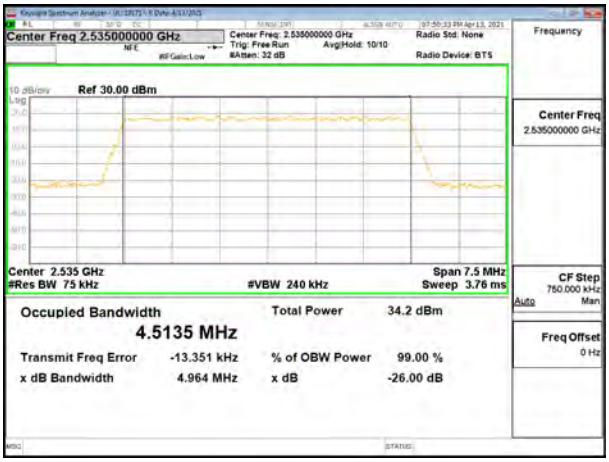
5G NR n5 20MHz BPSK Middle Channel RB100-0



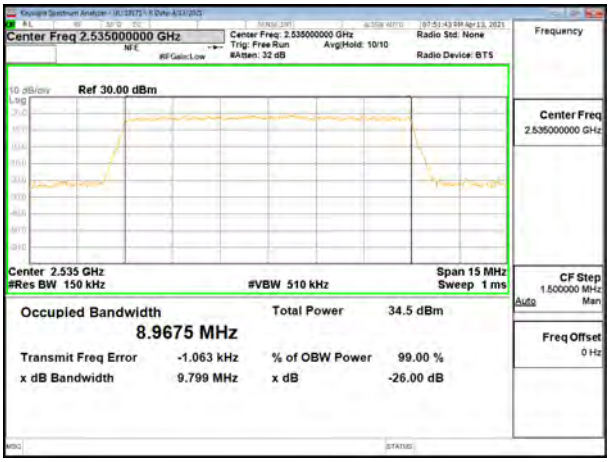
5G NR n5 20MHz BPSK Middle Channel RB1-0

9.1.2. LTE BAND 7 AND 5G NR n7

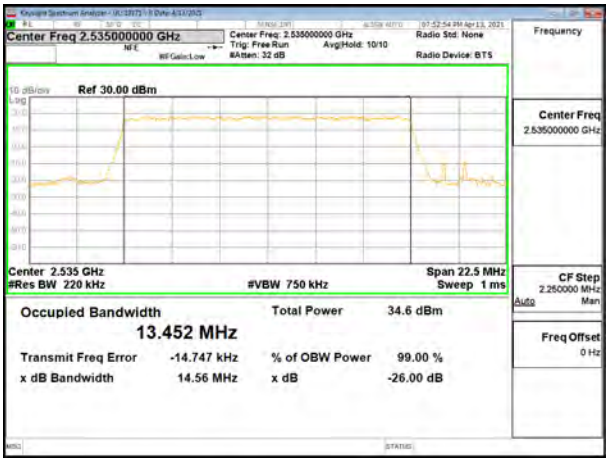
LTE BAND 7



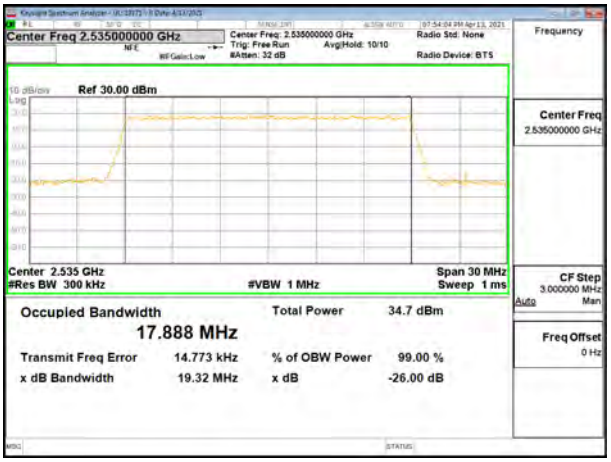
LTE B7 5MHz QPSK Middle Channel RB25-0



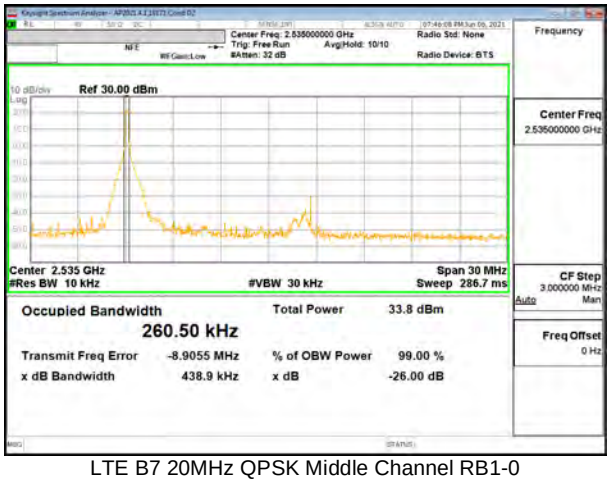
LTE B7 10MHz QPSK Middle Channel RB50-0



LTE B7 15MHz QPSK Middle Channel RB75-0

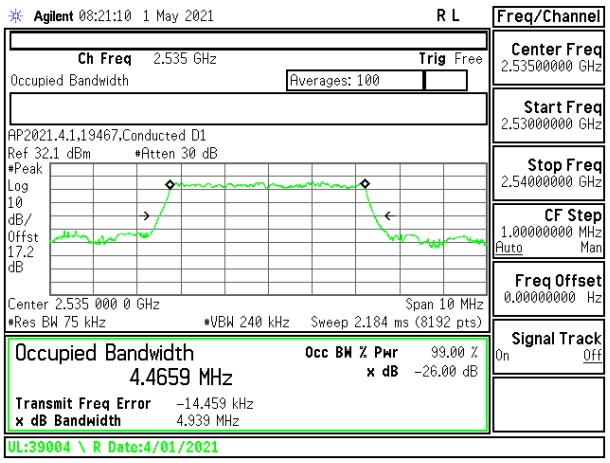


LTE B7 20MHz QPSK Middle Channel RB100-0

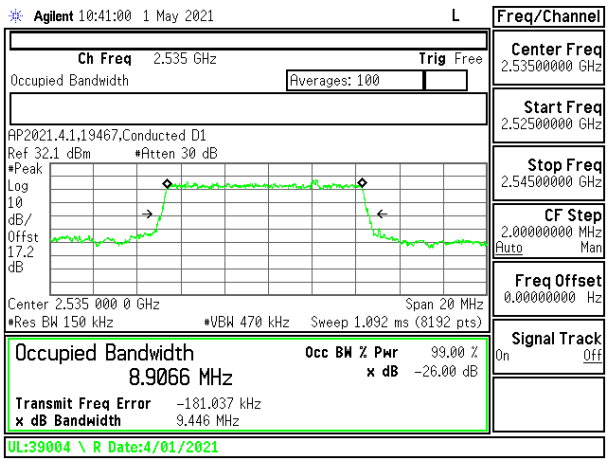


LTE B7 20MHz QPSK Middle Channel RB1-0

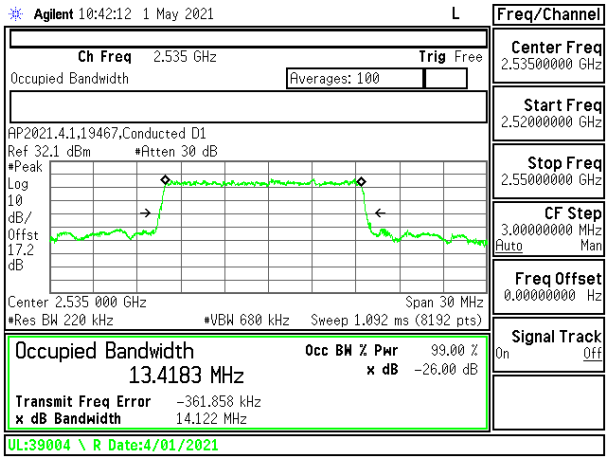
5G NR n7



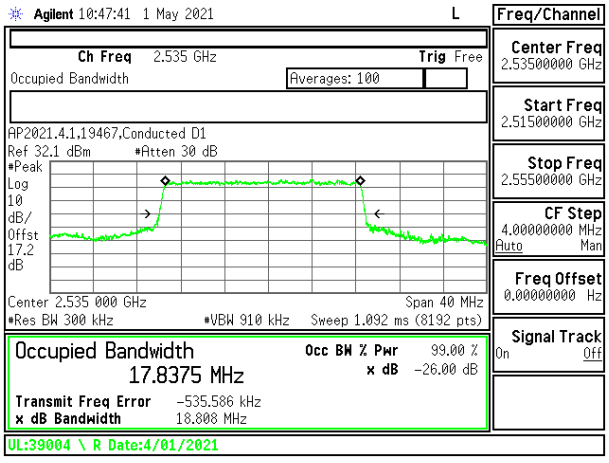
5G NR n7 5MHz BPSK Middle Channel RB25-0



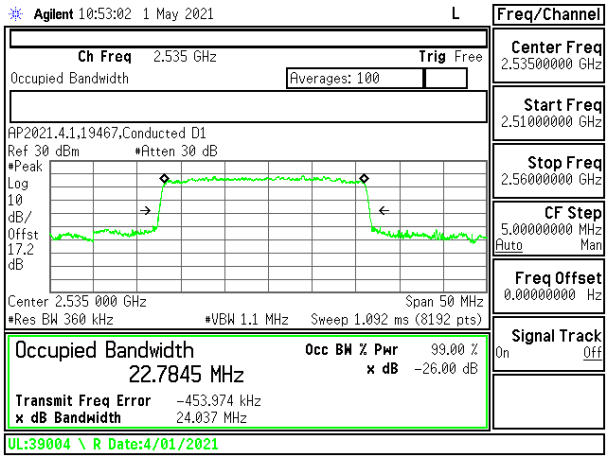
5G NR n7 10MHz BPSK Middle Channel RB50-0



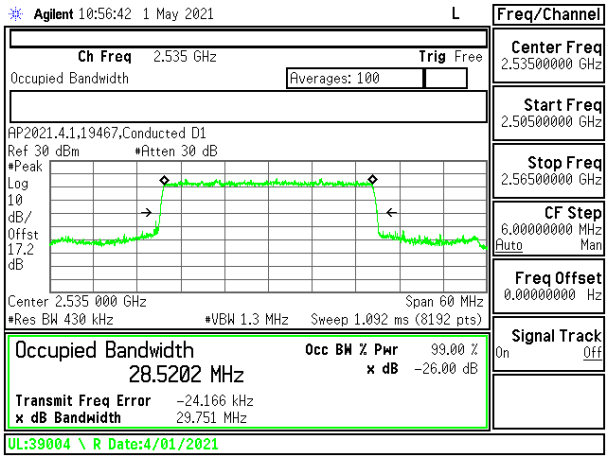
5G NR n7 15MHz BPSK Middle Channel RB75-0



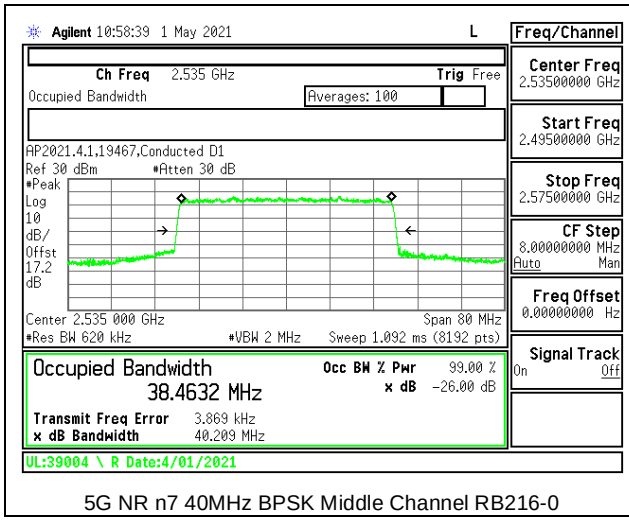
5G NR n7 20MHz BPSK Middle Channel RB100-0



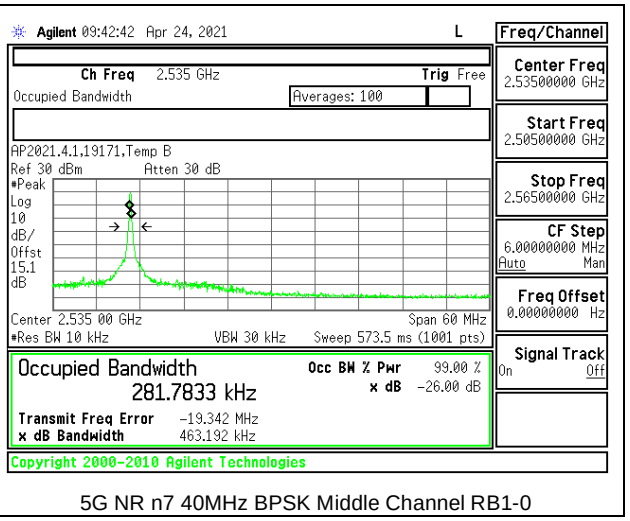
5G NR n7 25MHz BPSK Middle Channel RB128-0



5G NR n7 30MHz BPSK Middle Channel RB160-0



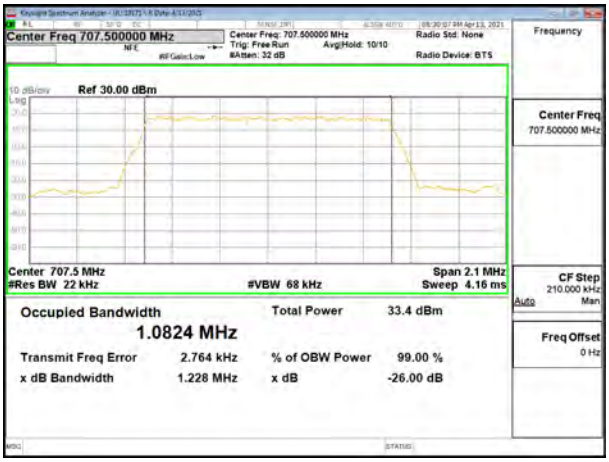
5G NR n7 40MHz BPSK Middle Channel RB216-0



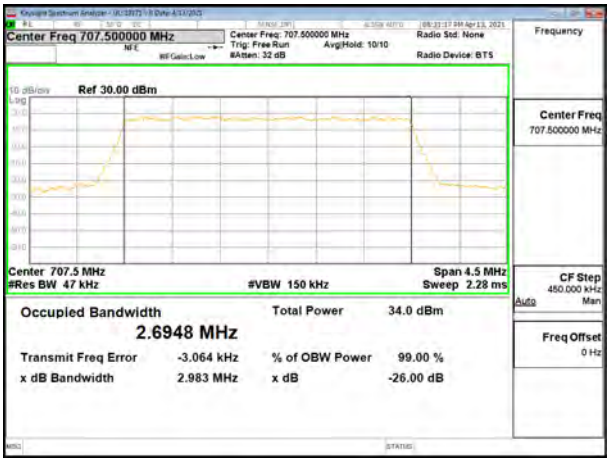
5G NR n7 40MHz BPSK Middle Channel RB1-0

9.1.3. LTE BAND 12 AND 5G NR n12

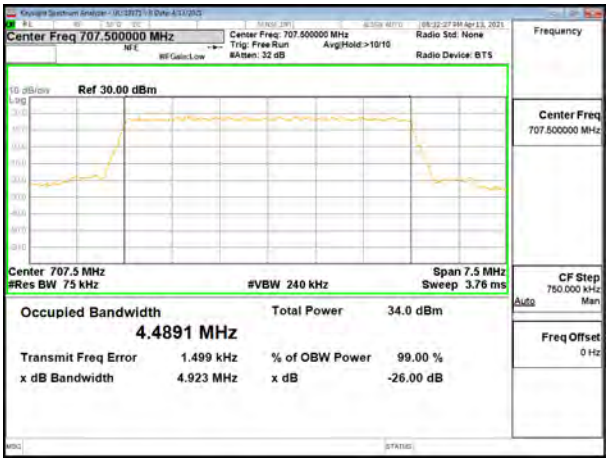
LTE BAND 12



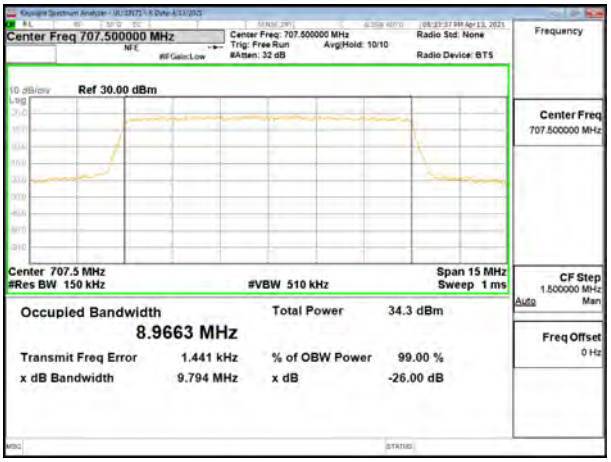
LTE B12 1.4MHz QPSK Middle Channel RB6-0



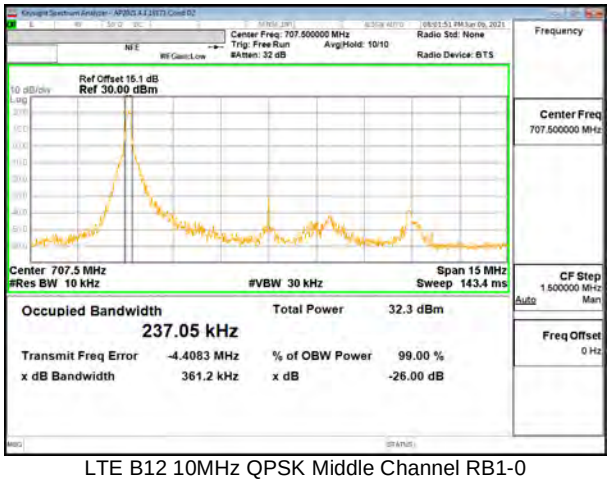
LTE B12 3MHz QPSK Middle Channel RB15-0



LTE B12 5MHz QPSK Middle Channel RB25-0

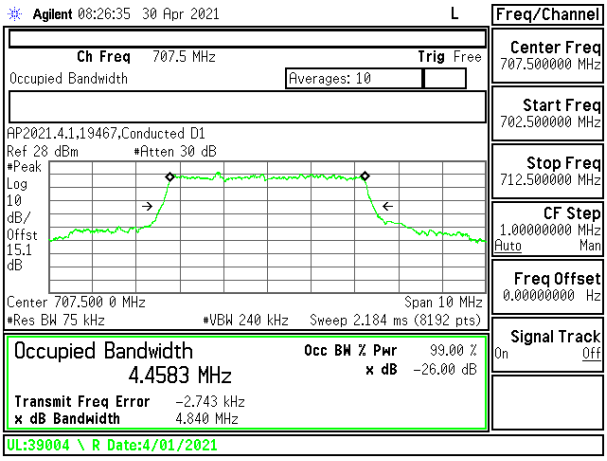


LTE B12 10MHz QPSK Middle Channel RB50-0

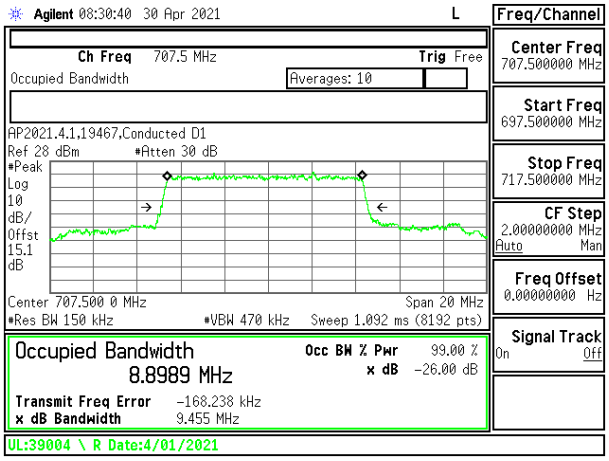


LTE B12 10MHz QPSK Middle Channel RB1-0

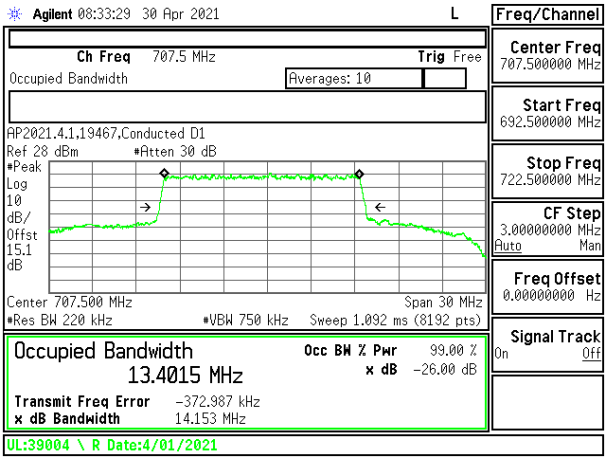
5G NR n12



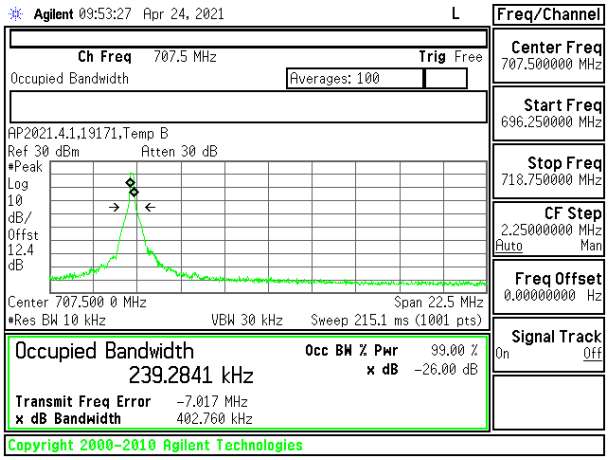
5G NR n12 5MHz BPSK Middle Channel RB25-0



5G NR n12 10MHz BPSK Middle Channel RB50-0

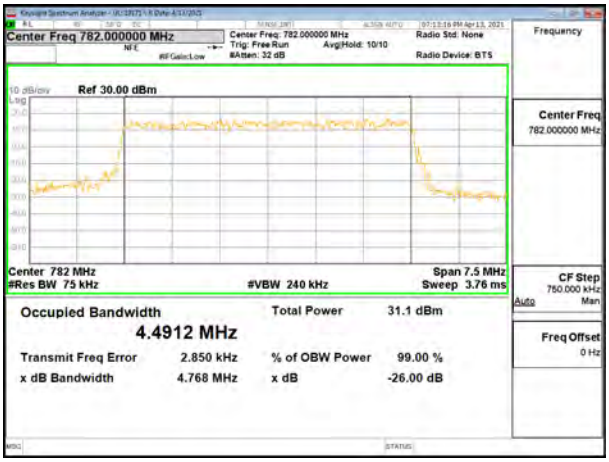


5G NR n12 15MHz BPSK Middle Channel RB75-0

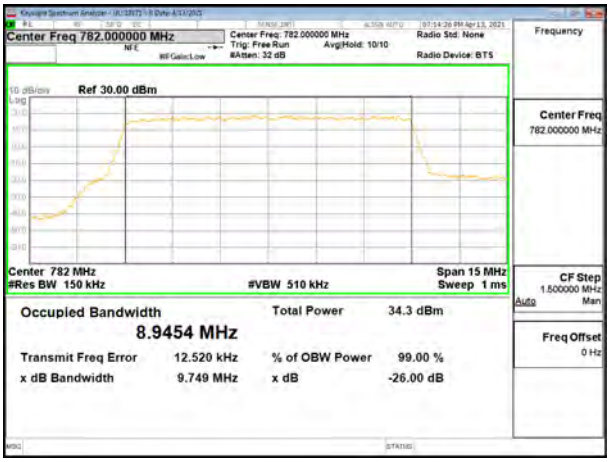


5G NR n12 15MHz BPSK Middle Channel RB1-0

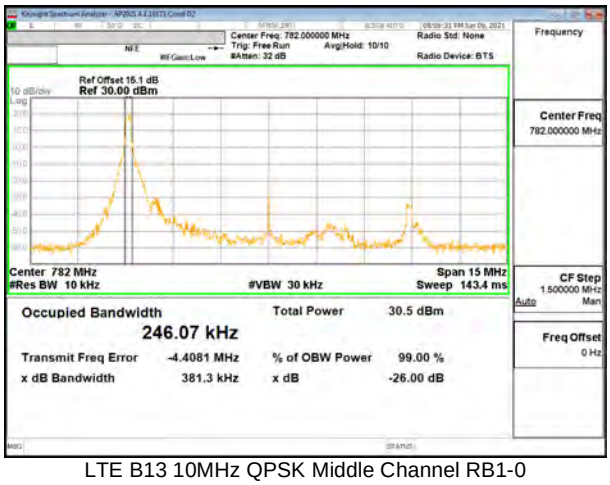
9.1.4. LTE BAND 13



LTE B13 5MHz QPSK Middle Channel RB25-0

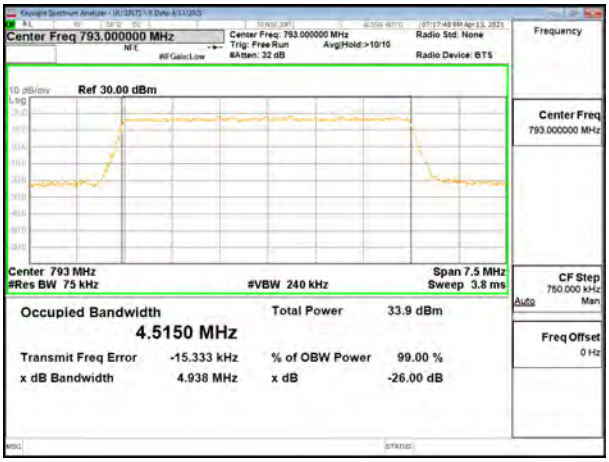


LTE B13 10MHz QPSK Middle Channel RB50-0

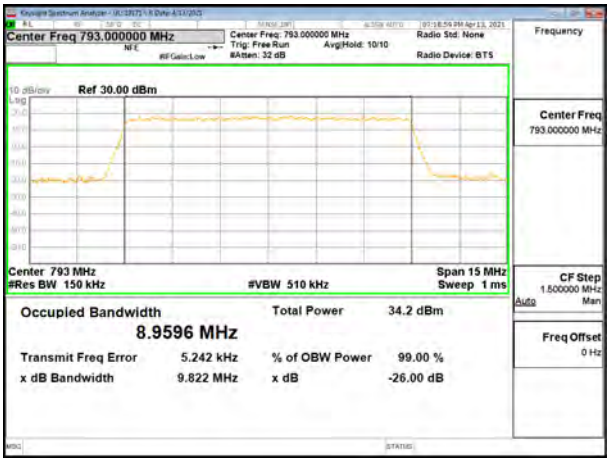


LTE B13 10MHz QPSK Middle Channel RB1-0

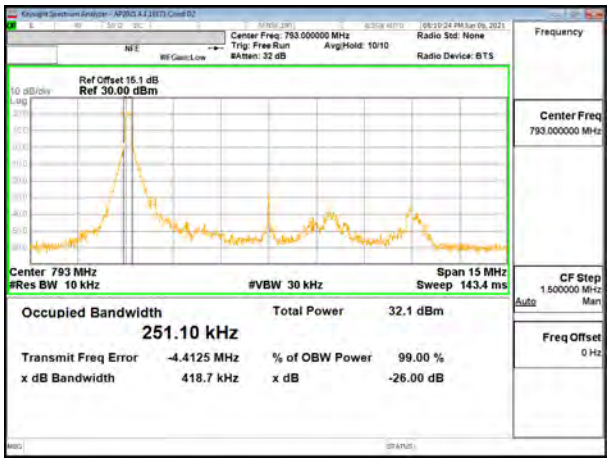
9.1.5. LTE BAND 14



LTE B14 5MHz QPSK Middle Channel RB25-0

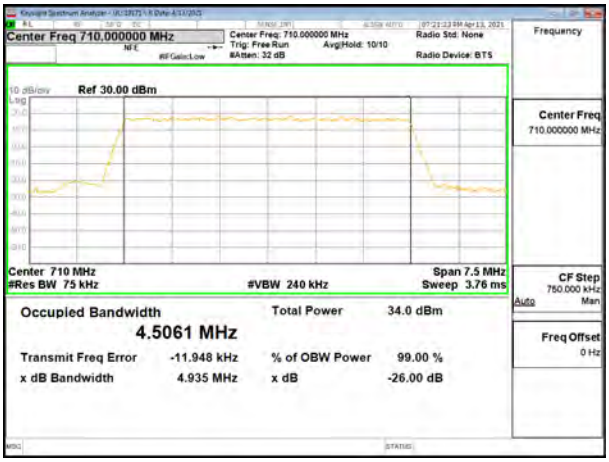


LTE B14 10MHz QPSK Middle Channel RB50-0

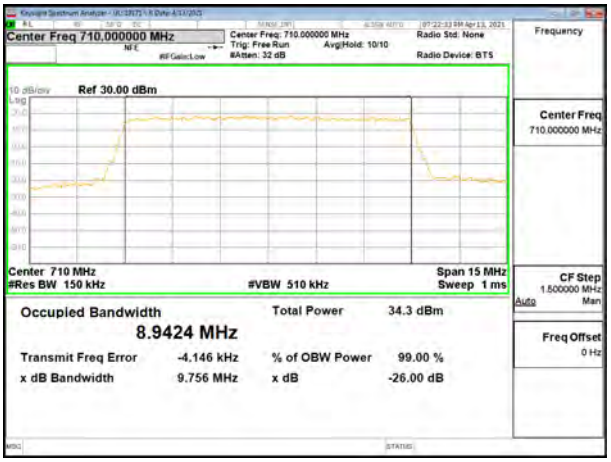


LTE B14 10MHz QPSK Middle Channel RB1-0

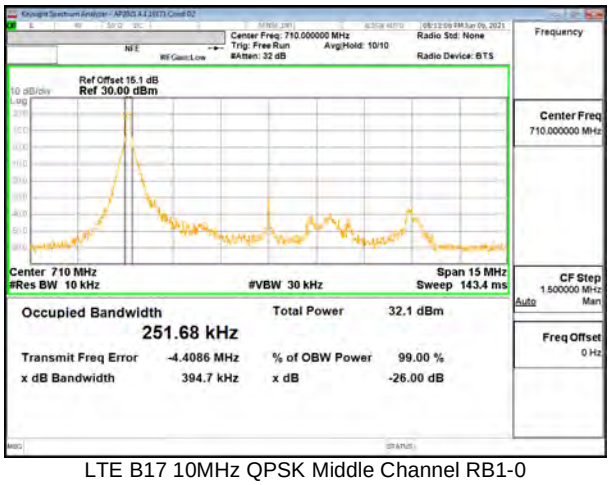
9.1.6. LTE BAND 17



LTE B17 5MHz QPSK Middle Channel RB25-0



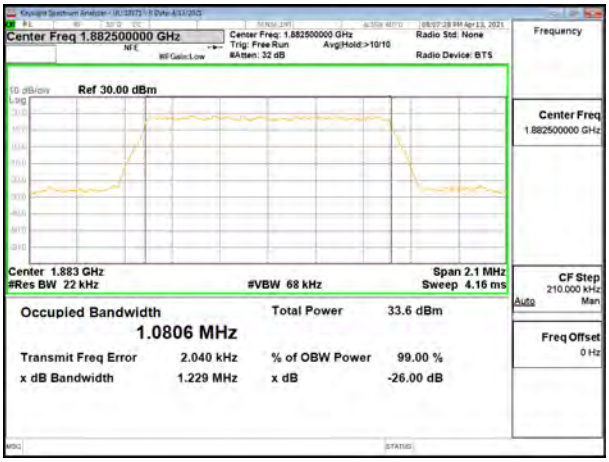
LTE B17 10MHz QPSK Middle Channel RB50-0



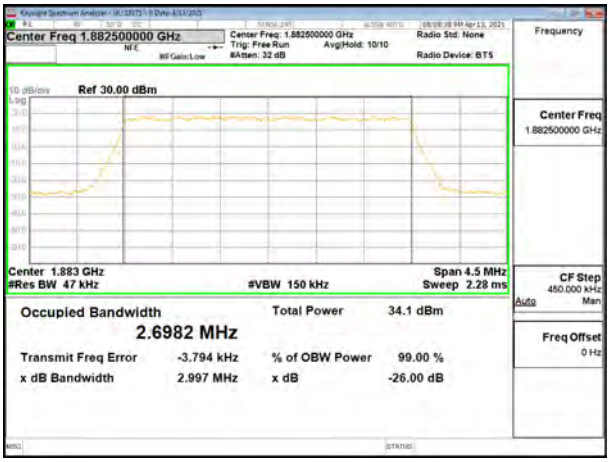
LTE B17 10MHz QPSK Middle Channel RB1-0

9.1.7. LTE BAND 25 AND 5G NR n25

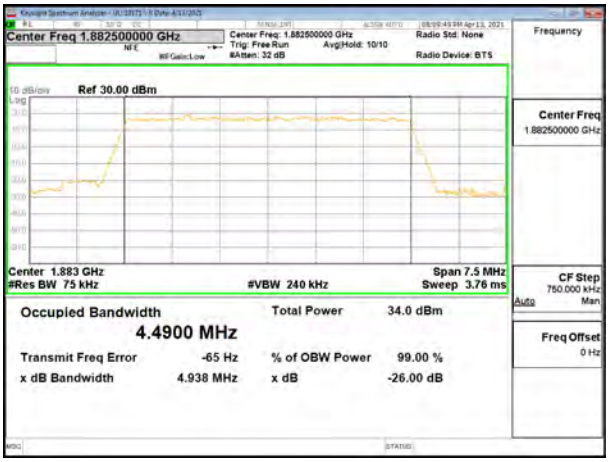
LTE BAND 25



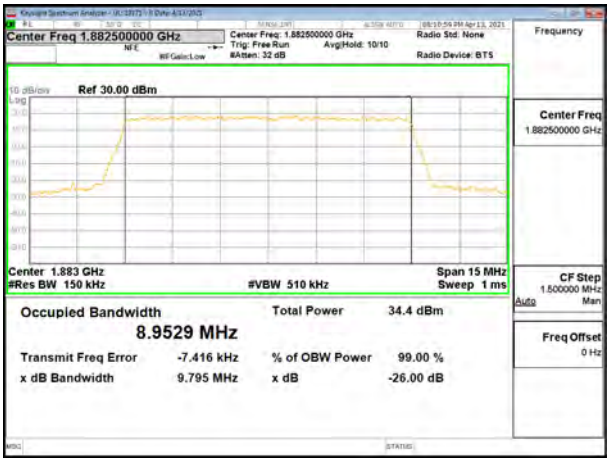
LTE B25 1.4MHz QPSK Middle Channel RB6-0



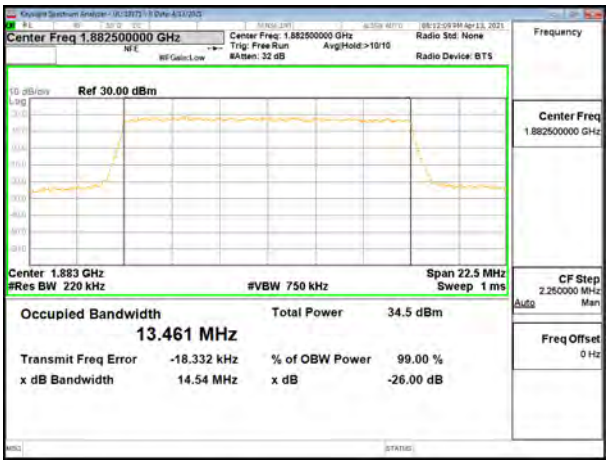
LTE B25 3MHz QPSK Middle Channel RB15-0



LTE B25 5MHz QPSK Middle Channel RB25-0

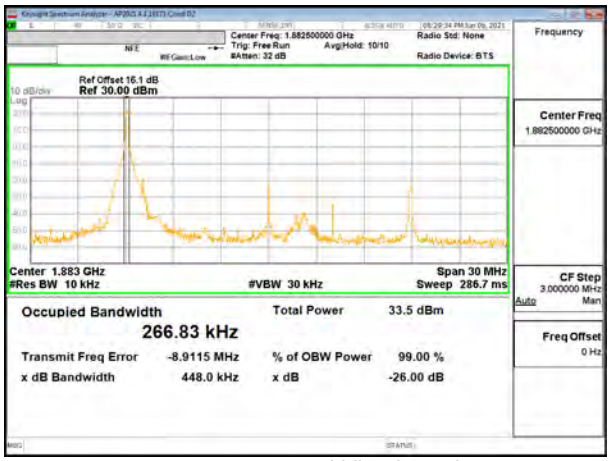


LTE B25 10MHz QPSK Middle Channel RB50-0



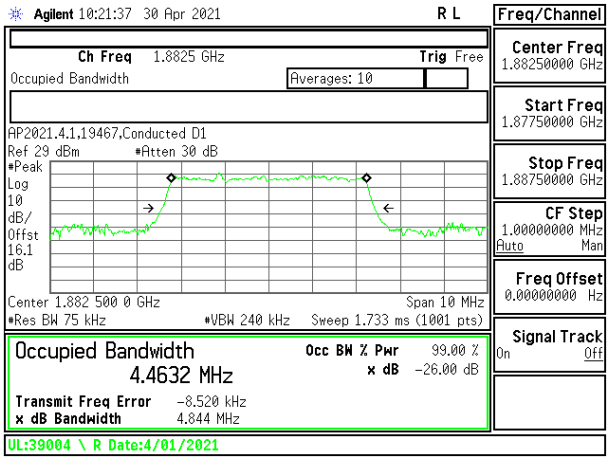
LTE B25 15MHz QPSK Middle Channel RB75-0

LTE B25 20MHz QPSK Middle Channel RB100-0

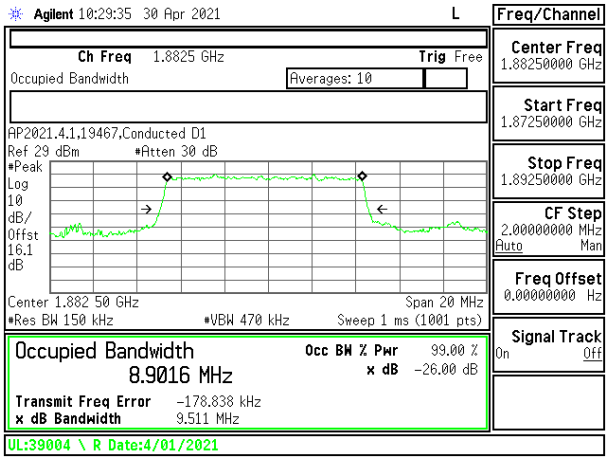


LTE B25 20MHz QPSK Middle Channel RB1-0

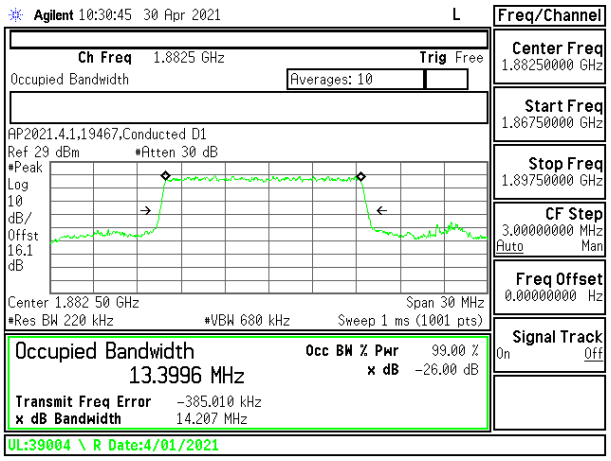
5G NR n25



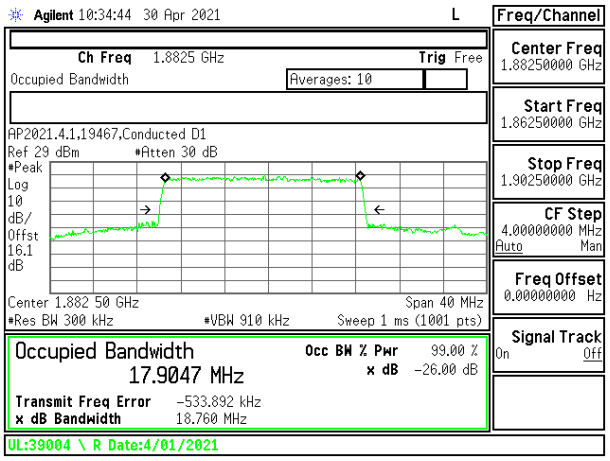
5G NR n25 5MHz BPSK Middle Channel RB25-0



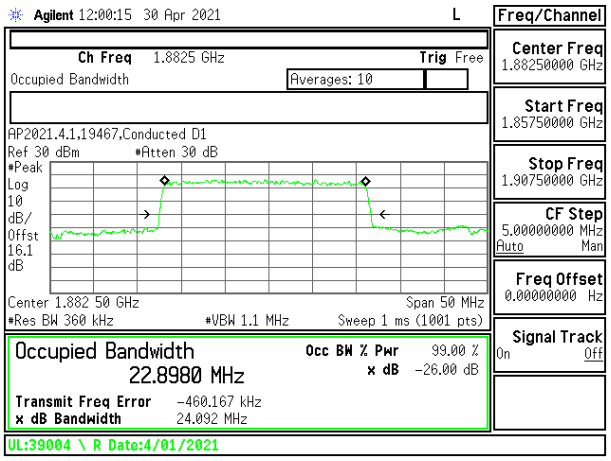
5G NR n25 10MHz BPSK Middle Channel RB50-0



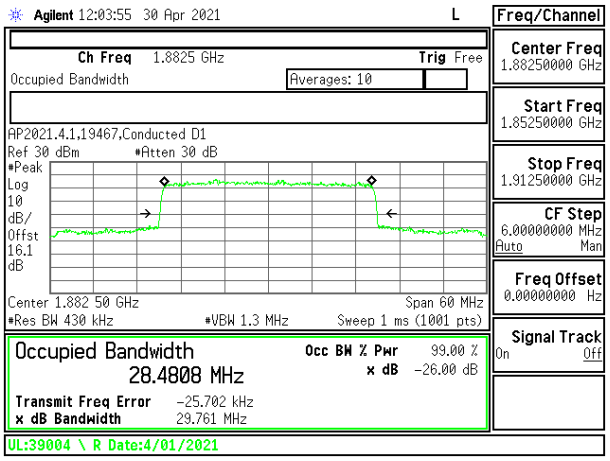
5G NR n25 15MHz BPSK Middle Channel RB75-0



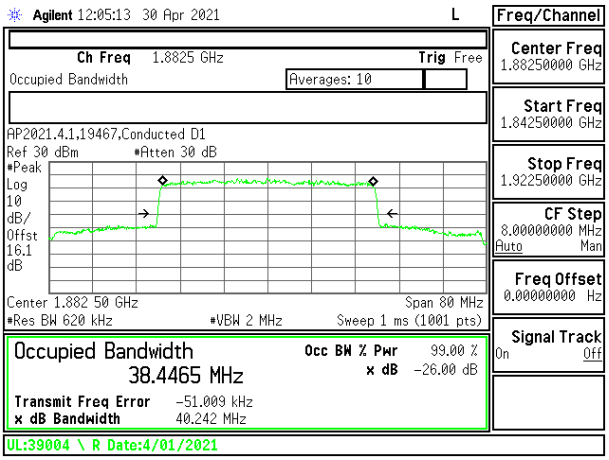
5G NR n25 20MHz BPSK Middle Channel RB100-0



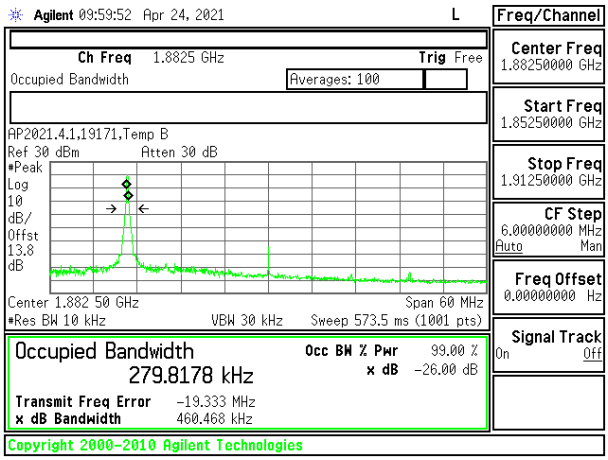
5G NR n25 25MHz BPSK Middle Channel RB128-0



5G NR n25 30MHz BPSK Middle Channel RB160-0



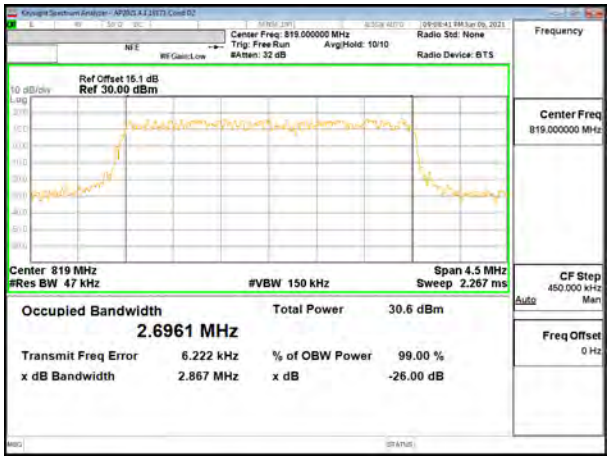
5G NR n25 40MHz BPSK Middle Channel RB216-0



5G NR n25 40MHz BPSK Middle Channel RB1-0

9.1.8. LTE BAND 26 (PART 90S)

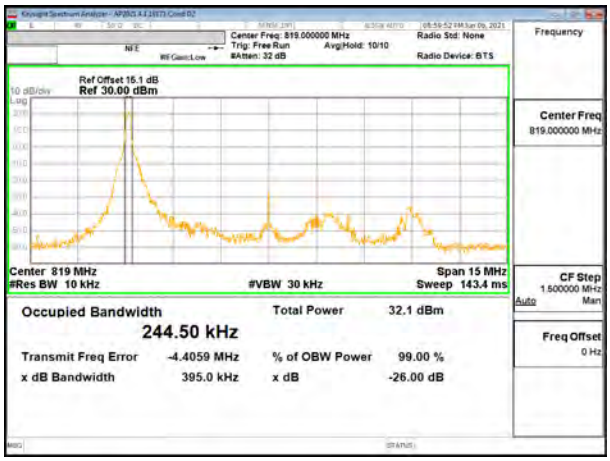
LTE B26 1.4MHz QPSK Middle Channel RB6-0



LTE B26 3MHz QPSK Middle Channel RB15-0

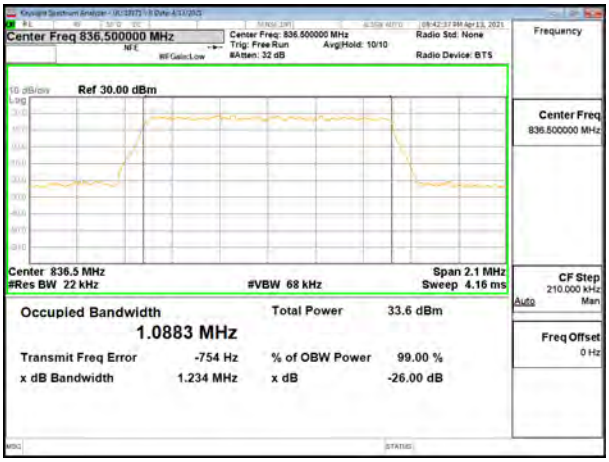
LTE B26 5MHz QPSK Middle Channel RB25-0

LTE B26 10MHz QPSK Middle Channel RB50-0

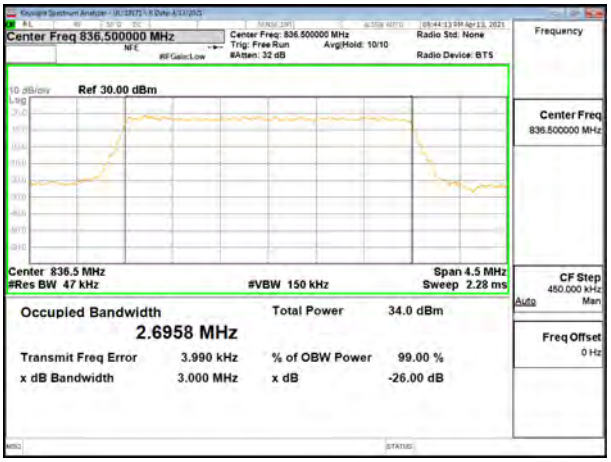


LTE B26 10MHz QPSK Middle Channel RB1-0

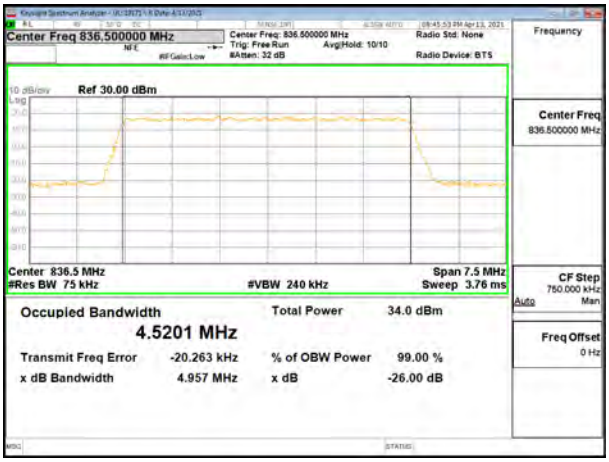
9.1.9. LTE BAND 26 (PART 22)



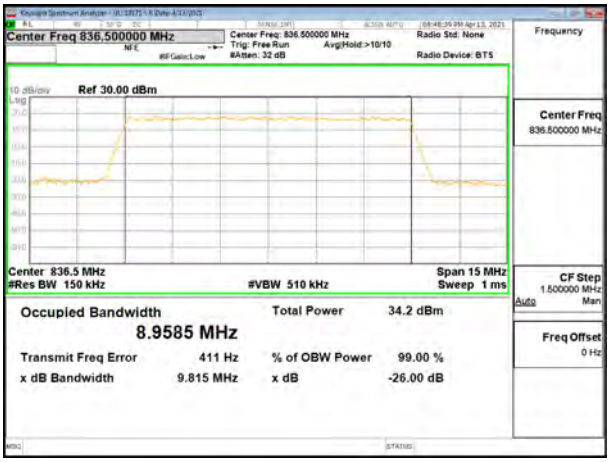
LTE B26 1.4MHz QPSK Middle Channel RB6-0



LTE B26 3MHz QPSK Middle Channel RB15-0



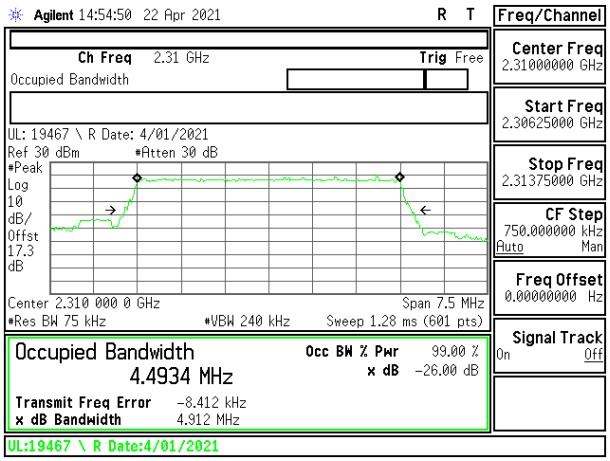
LTE B26 5MHz QPSK Middle Channel RB25-0



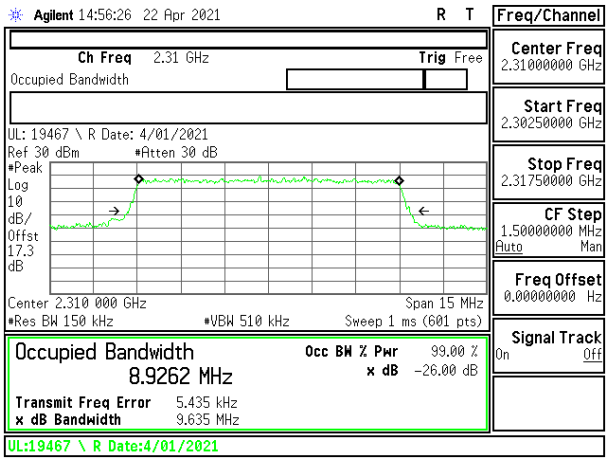
LTE B26 10MHz QPSK Middle Channel RB50-0

9.1.10. LTE BAND 30 AND 5G NR n30

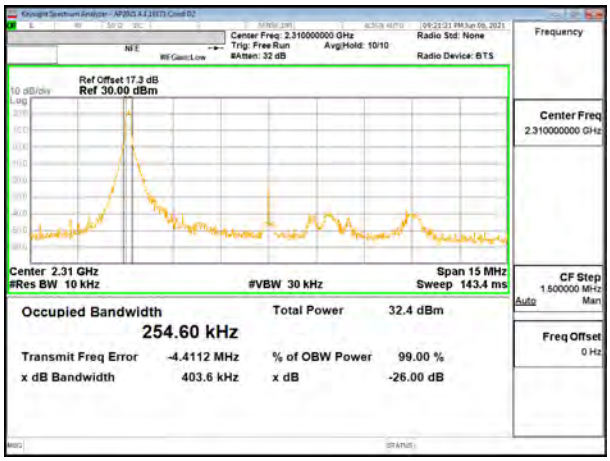
LTE BAND 30



LTE B30 5MHz QPSK Middle Channel RB25-0

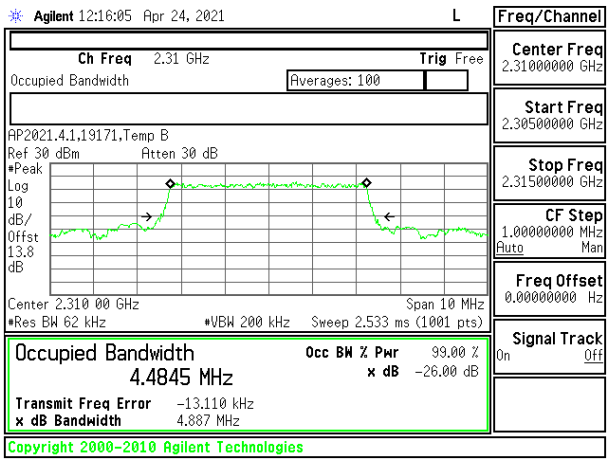


LTE B30 10MHz QPSK Middle Channel RB50-0

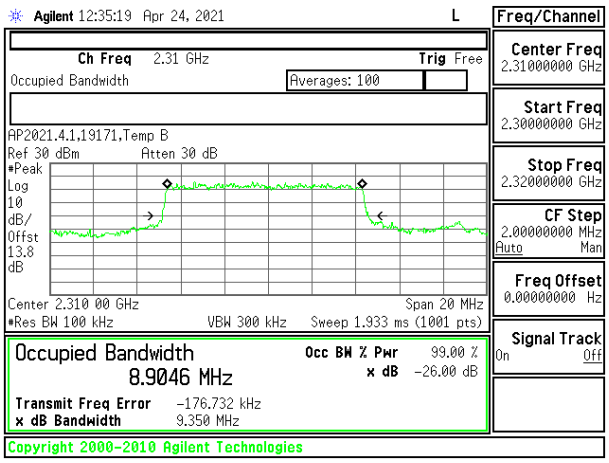


LTE B30 10MHz QPSK Middle Channel RB1-0

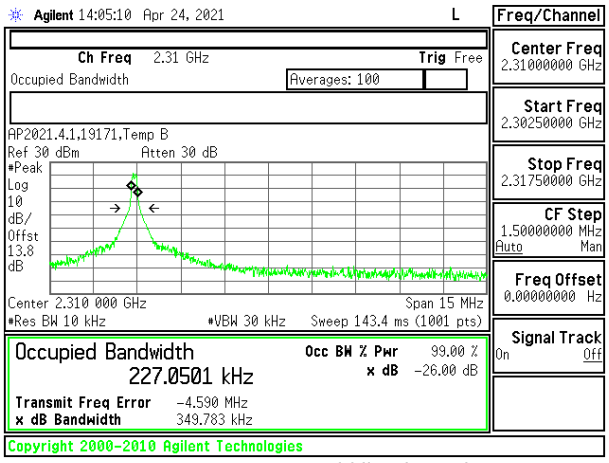
5G NR n30



5G NR n30 5MHz BPSK Middle Channel RB25-0



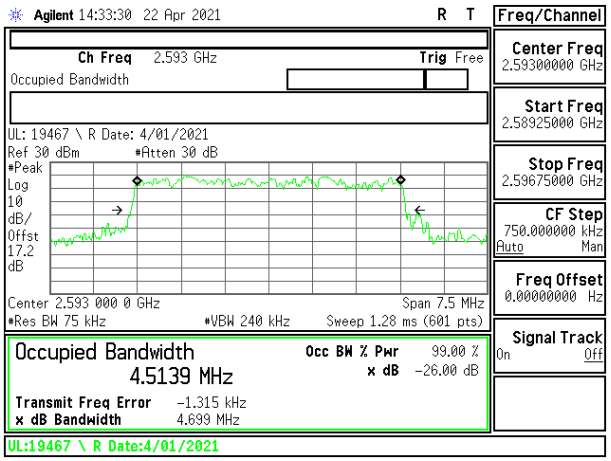
5G NR n30 10MHz BPSK Middle Channel RB50-0



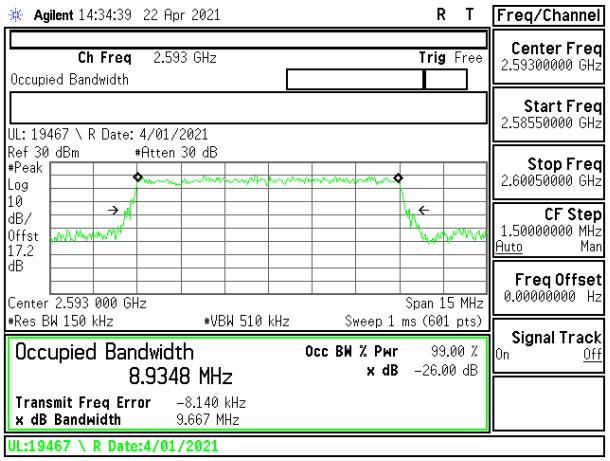
5G NR n30 10MHz BPSK Middle Channel RB1-0

9.1.11. LTE BAND 41 AND 5G NR n41

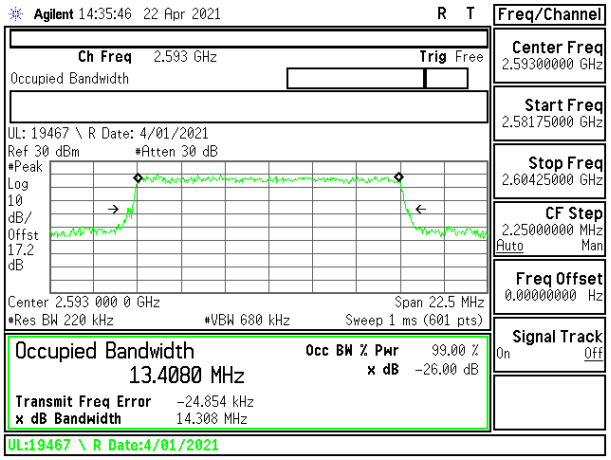
LTE BAND 41



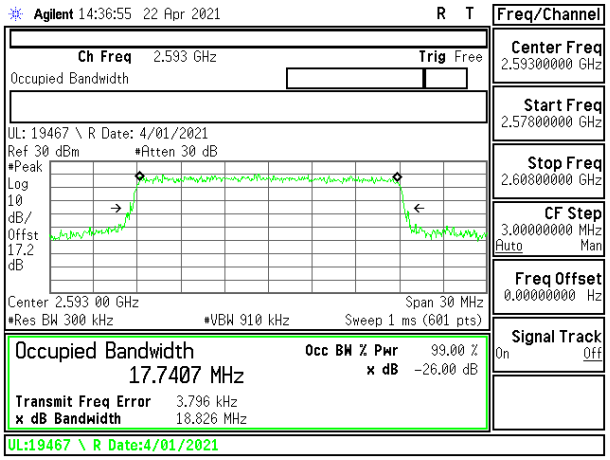
LTE B41 5MHz QPSK Middle Channel RB25-0



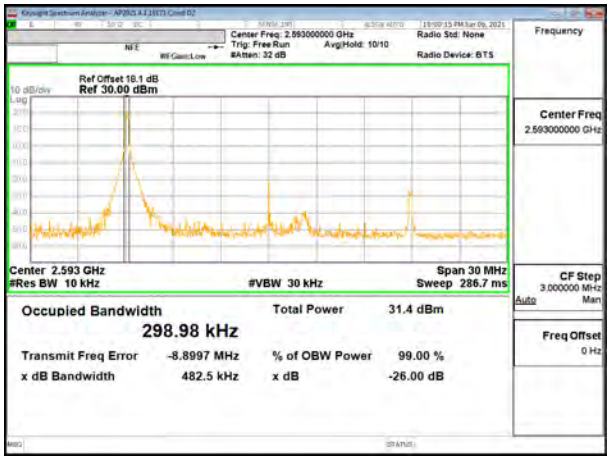
LTE B41 10MHz QPSK Middle Channel RB50-0



LTE B41 15MHz QPSK Middle Channel RB75-0

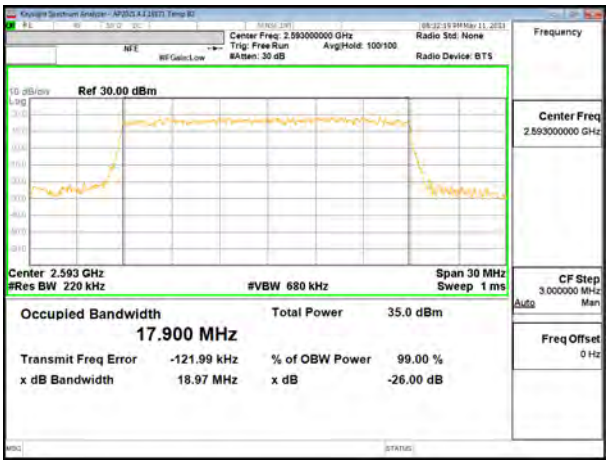


LTE B41 20MHz QPSK Middle Channel RB100-0

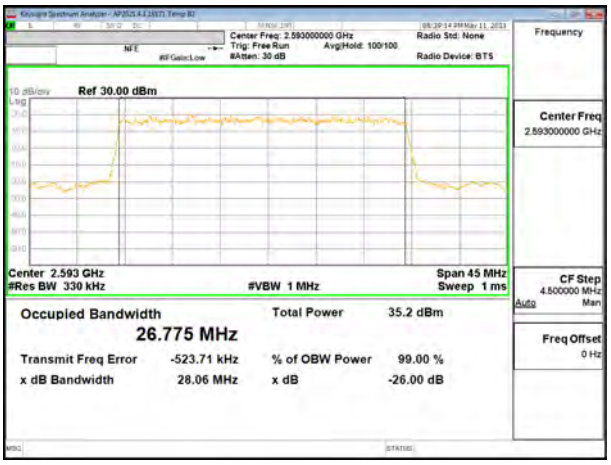


LTE B41 20MHz QPSK Middle Channel RB1-0

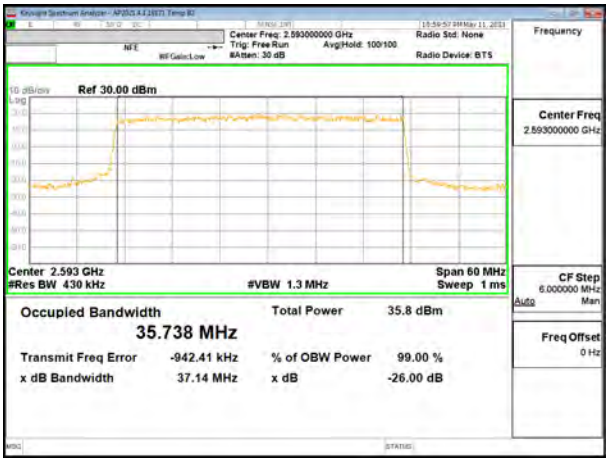
5G NR n41



5G NR n41 20MHz BPSK Middle Channel RB50-0



5G NR n41 30MHz BPSK Middle Channel RB75-0

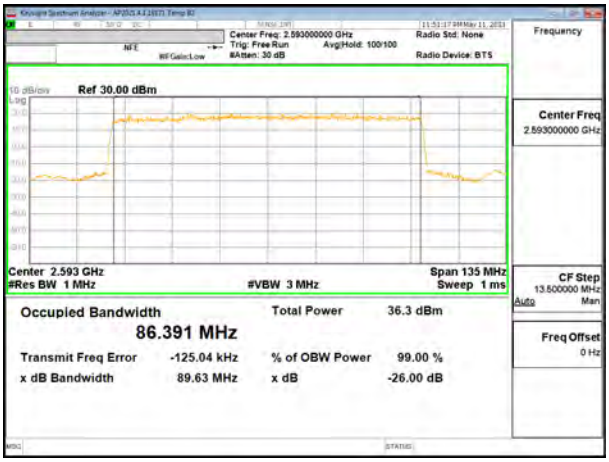


5G NR n41 40MHz BPSK Middle Channel RB100-0

5G NR n41 50MHz BPSK Middle Channel RB128-0

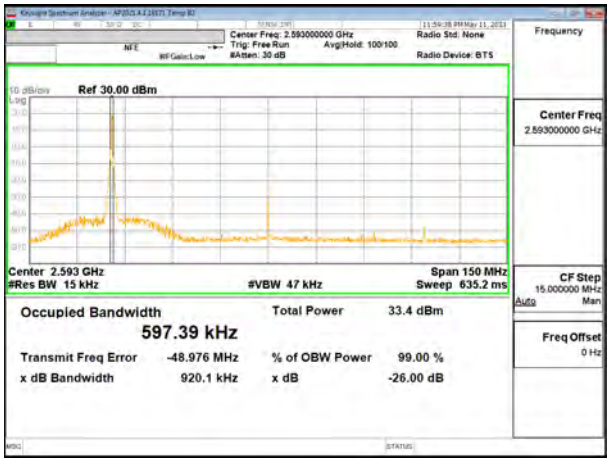
5G NR n41 60MHz BPSK Middle Channel RB162-0

5G NR n41 80MHz BPSK Middle Channel RB216-0



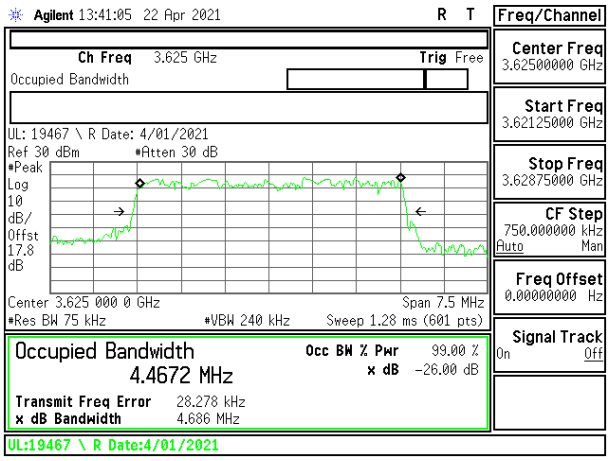
5G NR n41 90MHz BPSK Middle Channel RB243-0

5G NR n41 100MHz BPSK Middle Channel RB270-0

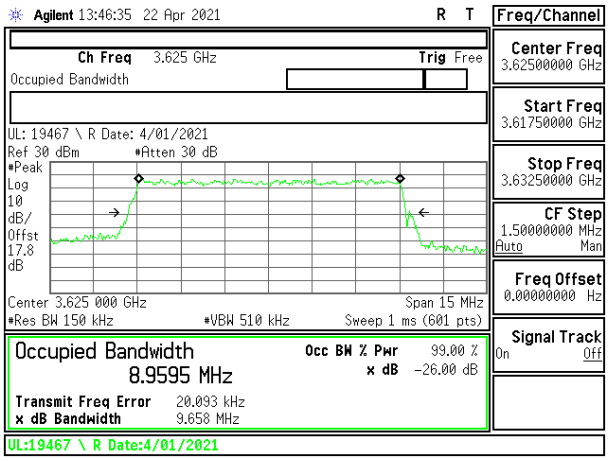


5G NR n41 100MHz BPSK Middle Channel RB1-0

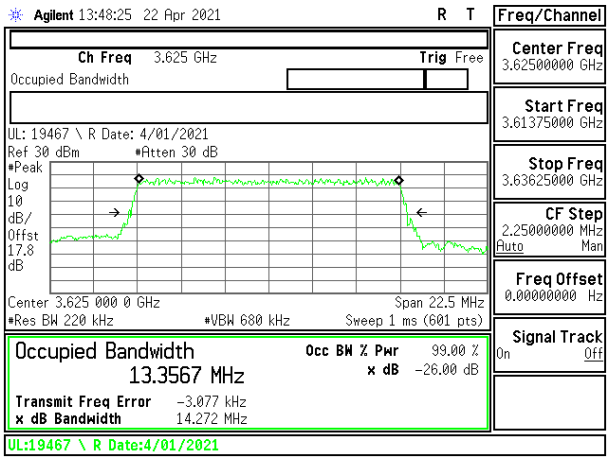
9.1.12. LTE BAND 48



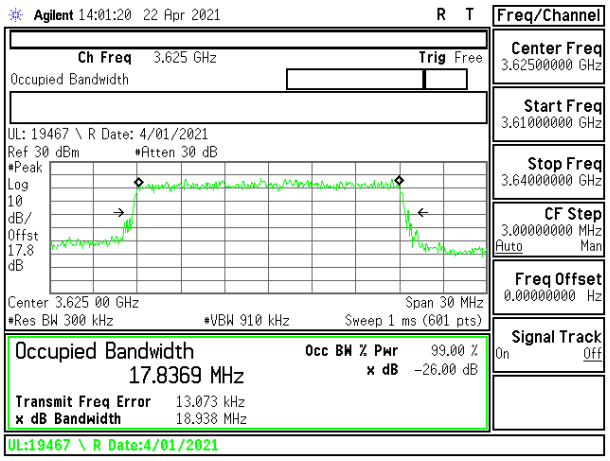
LTE B48 5MHz QPSK Middle Channel RB25-0



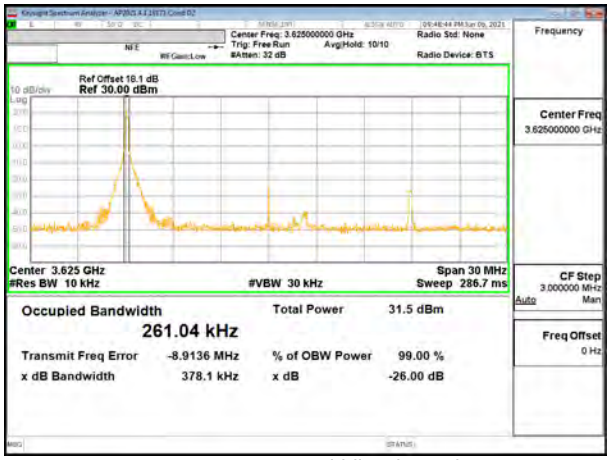
LTE B48 10MHz QPSK Middle Channel RB50-0



LTE B48 15MHz QPSK Middle Channel RB75-0



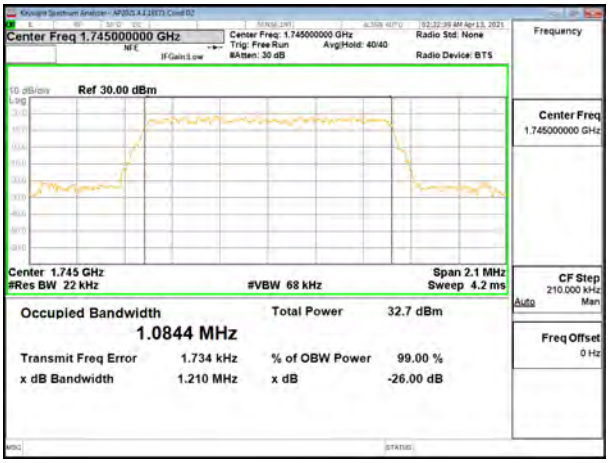
LTE B48 20MHz QPSK Middle Channel RB100-0



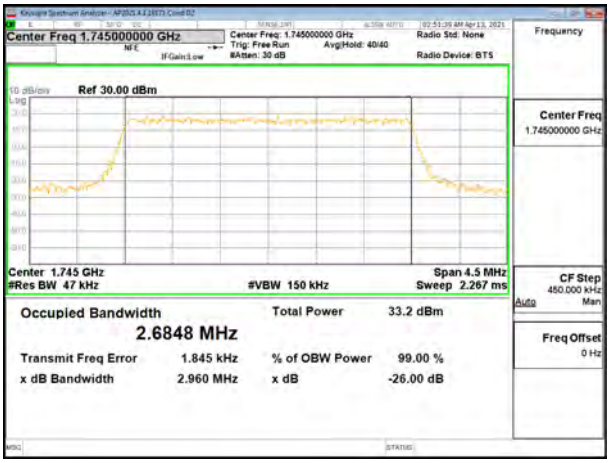
LTE B48 20MHz QPSK Middle Channel RB1-0

9.1.13. LTE BAND 66 AND 5G NR n66

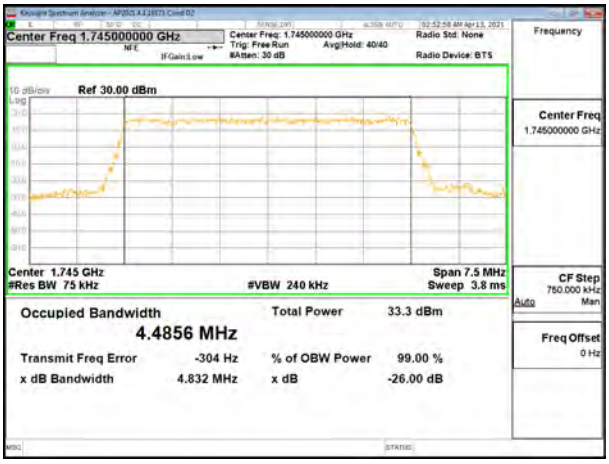
LTE BAND 66



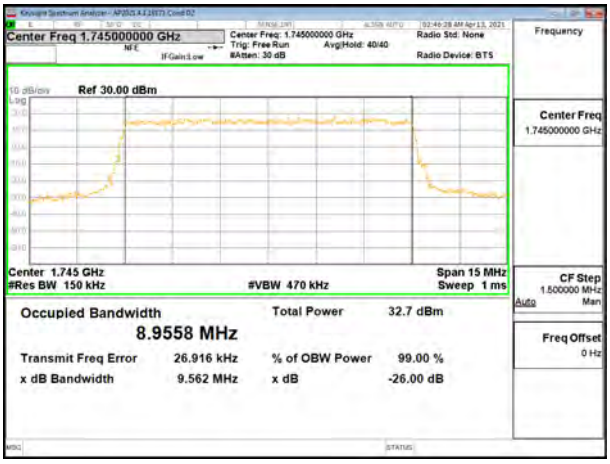
LTE B66 1.4MHz QPSK Middle Channel RB6-0



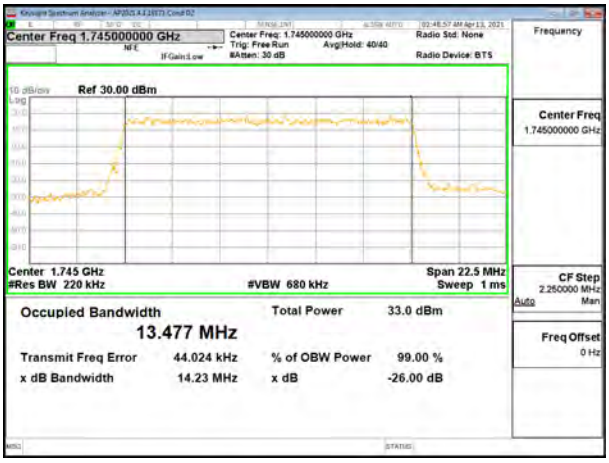
LTE B66 3MHz QPSK Middle Channel RB15-0



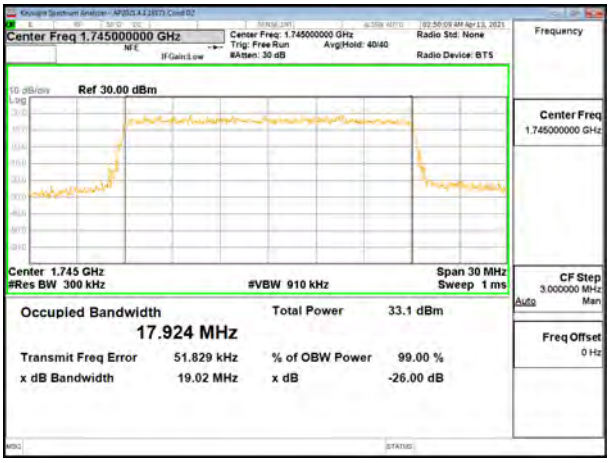
LTE B66 5MHz QPSK Middle Channel RB25-0



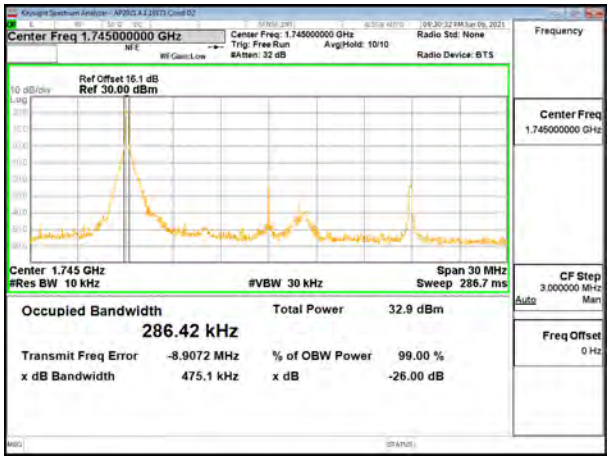
LTE B66 10MHz QPSK Middle Channel RB50-0



LTE B66 15MHz QPSK Middle Channel RB75-0

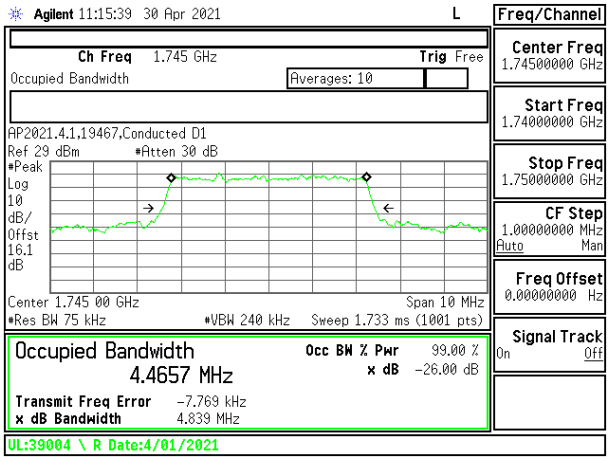


LTE B66 20MHz QPSK Middle Channel RB100-0

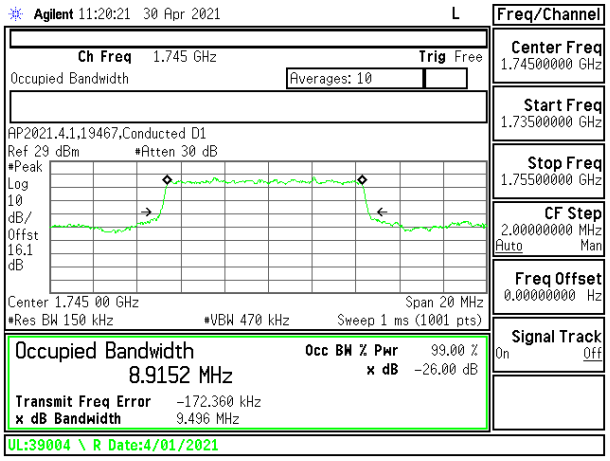


LTE B66 20MHz QPSK Middle Channel RB1-0

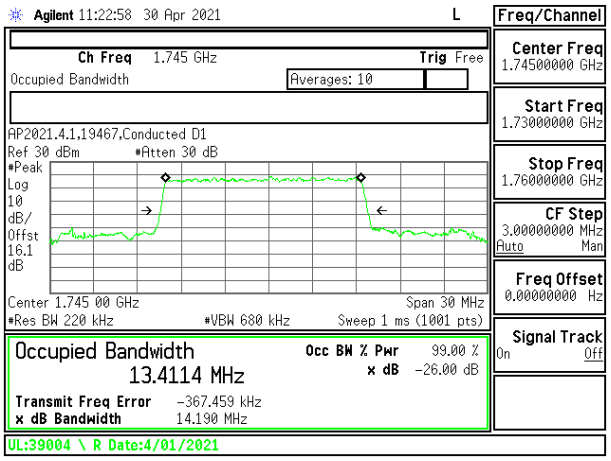
5G NR n66



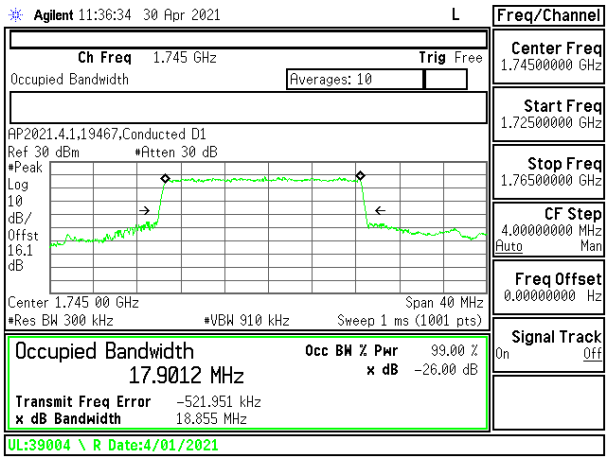
5G NR n66 5MHz BPSK Middle Channel RB25-0



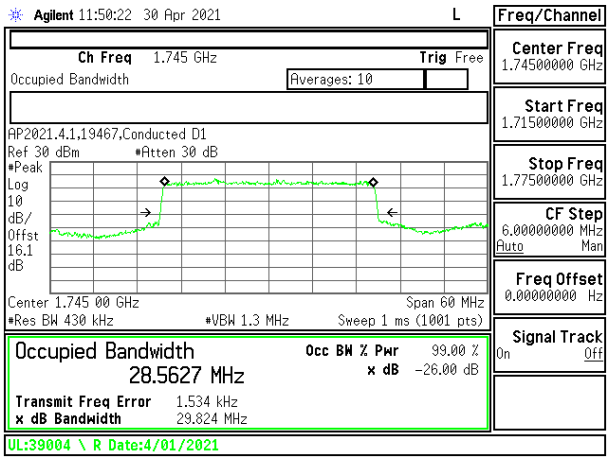
5G NR n66 10MHz BPSK Middle Channel RB50-0



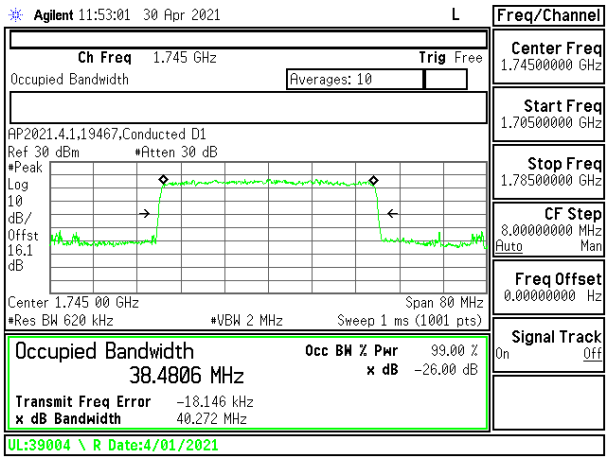
5G NR n66 15MHz BPSK Middle Channel RB75-0



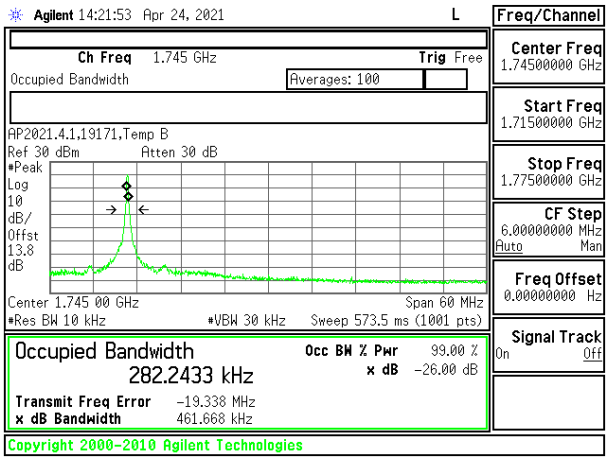
5G NR n66 20MHz BPSK Middle Channel RB100-0



5G NR n66 30MHz BPSK Middle Channel RB160-0



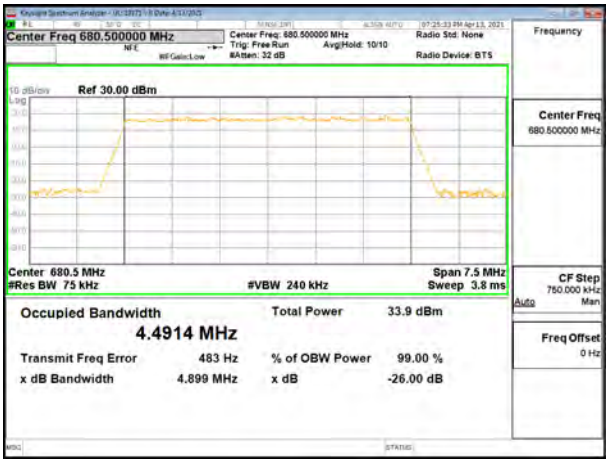
5G NR n66 40MHz BPSK Middle Channel RB216-0



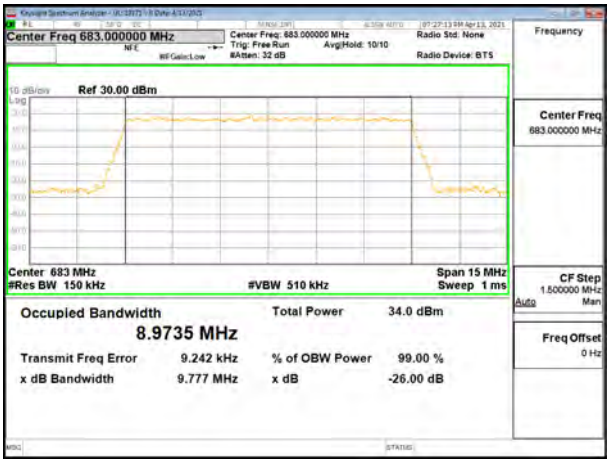
5G NR n66 40MHz BPSK Middle Channel RB1-0

9.1.14. LTE BAND 71 AND 5G NR n71

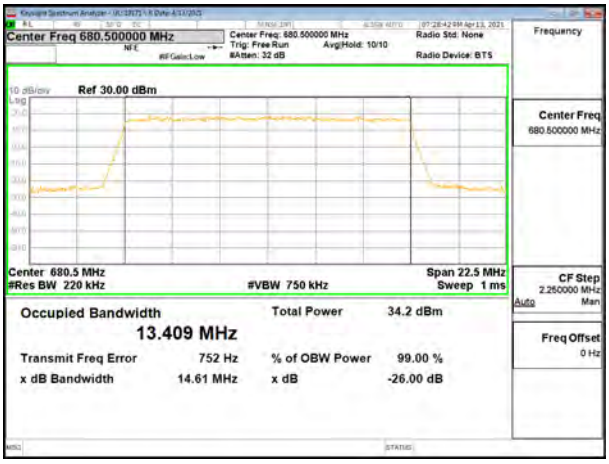
LTE BAND 71



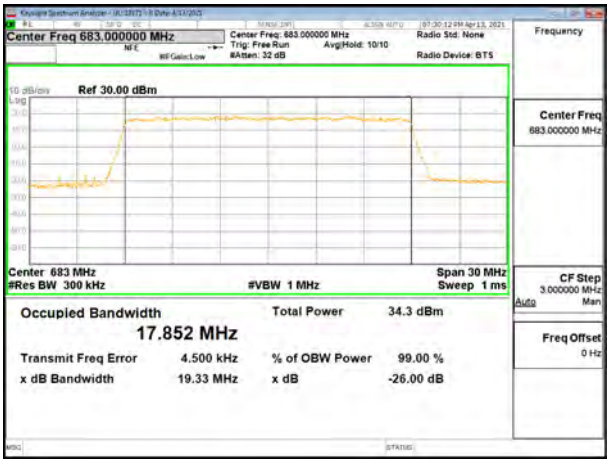
LTE B71 5MHz QPSK Middle Channel RB25-0



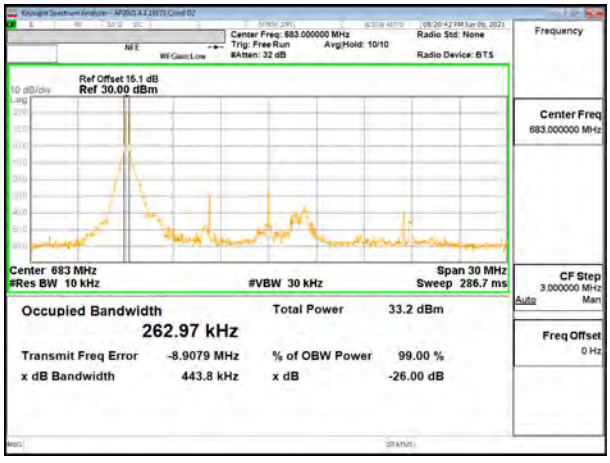
LTE B71 10MHz QPSK Middle Channel RB50-0



LTE B71 15MHz QPSK Middle Channel RB75-0

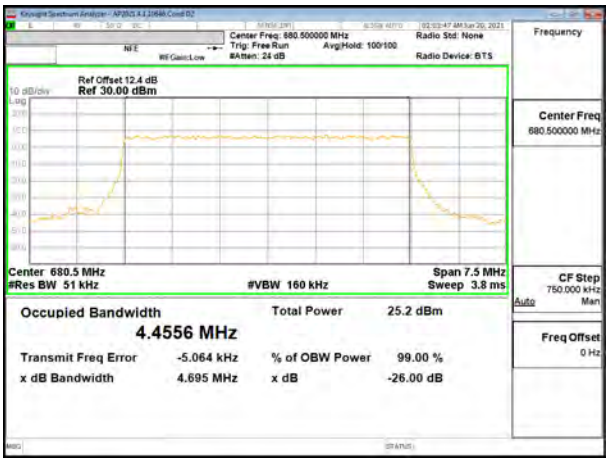


LTE B71 20MHz QPSK Middle Channel RB100-0



LTE B71 20MHz QPSK Middle Channel RB1-0

5G NR n71

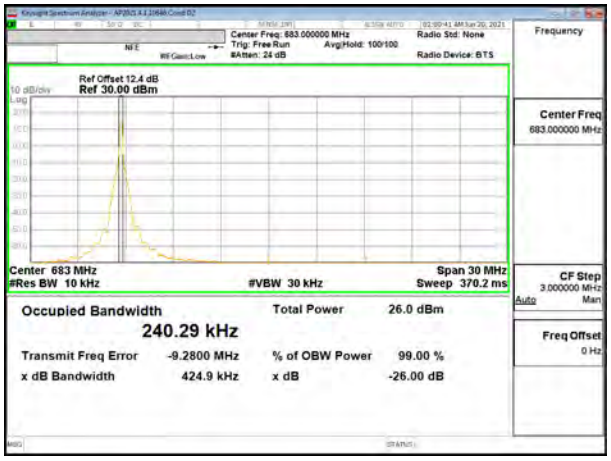


5G NR n71 5MHz BPSK Middle Channel RB25-0

5G NR n71 10MHz BPSK Middle Channel RB50-0

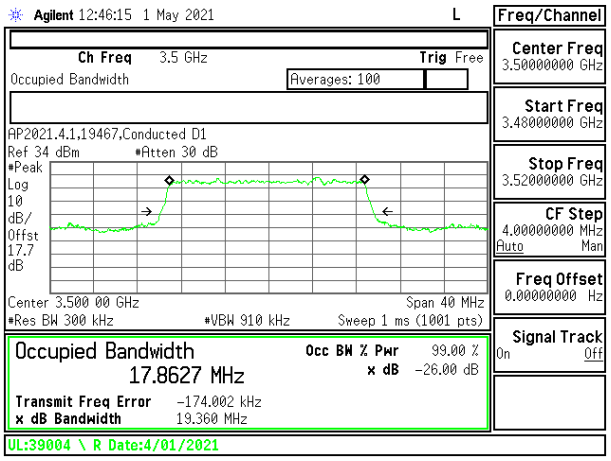
5G NR n71 15MHz BPSK Middle Channel RB75-0

5G NR n71 20MHz BPSK Middle Channel RB100-0

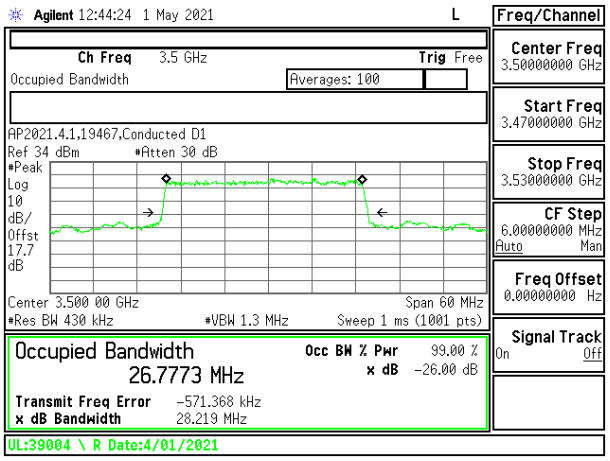


5G NR n71 20MHz BPSK Middle Channel RB1-0

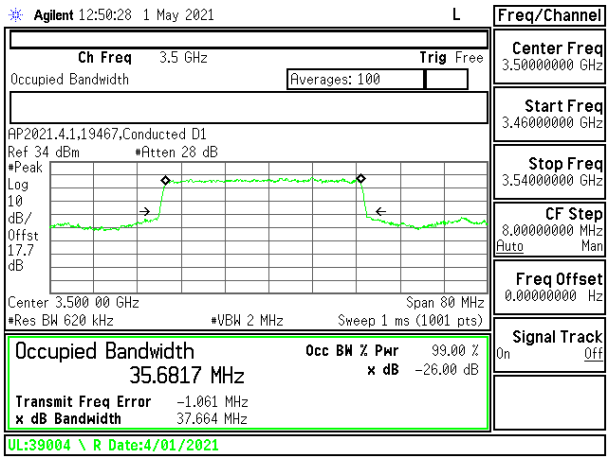
9.1.15. 5G NR n77 (Part 27 3450-3550MHz)



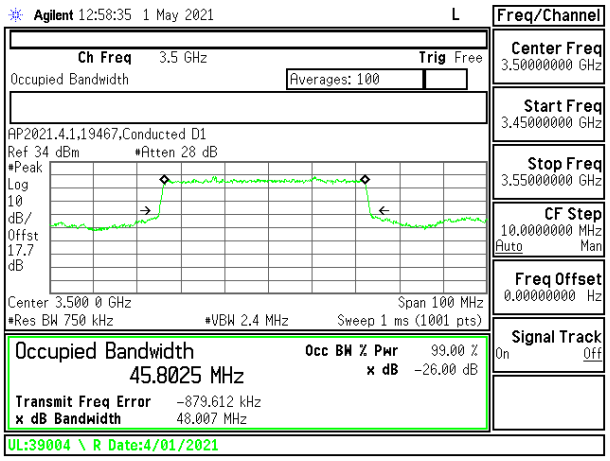
5G NR n77 20MHz BPSK Middle Channel RB50-0



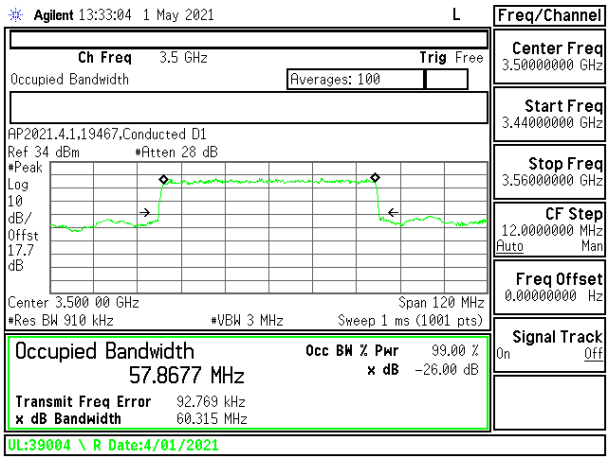
5G NR n77 30MHz BPSK Middle Channel RB75-0



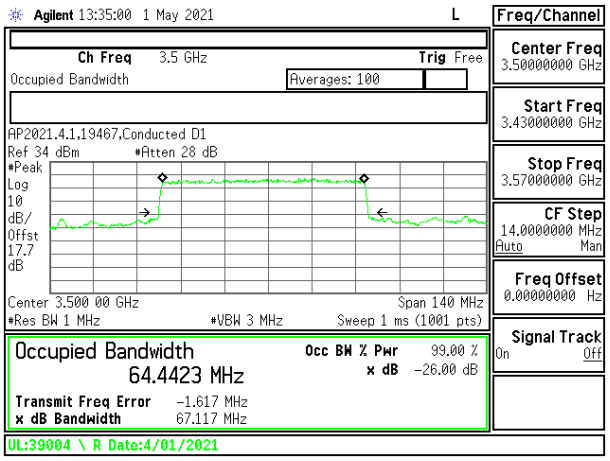
5G NR n77 40MHz BPSK Middle Channel RB100-0



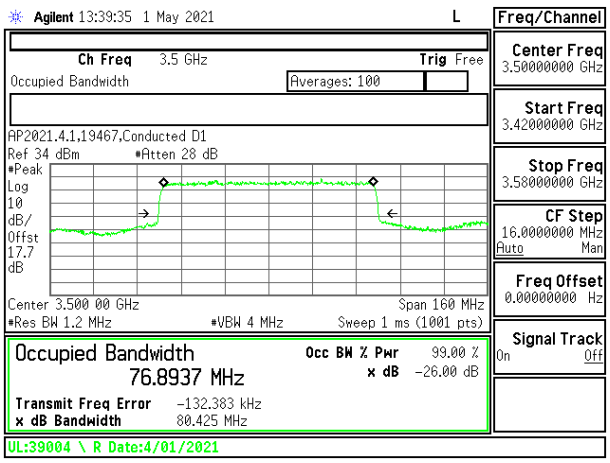
5G NR n77 50MHz BPSK Middle Channel RB128-0



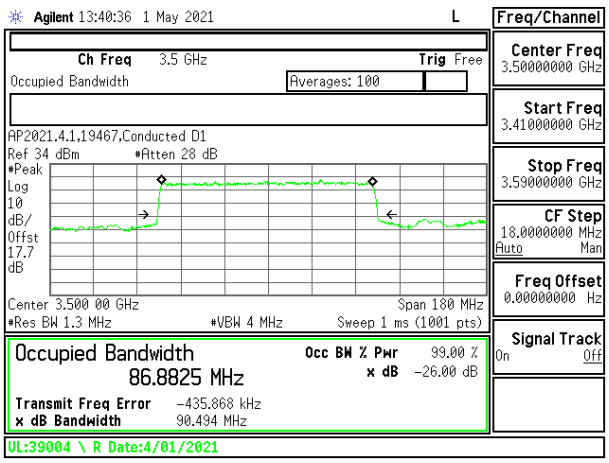
5G NR n77 60MHz BPSK Middle Channel RB162-0



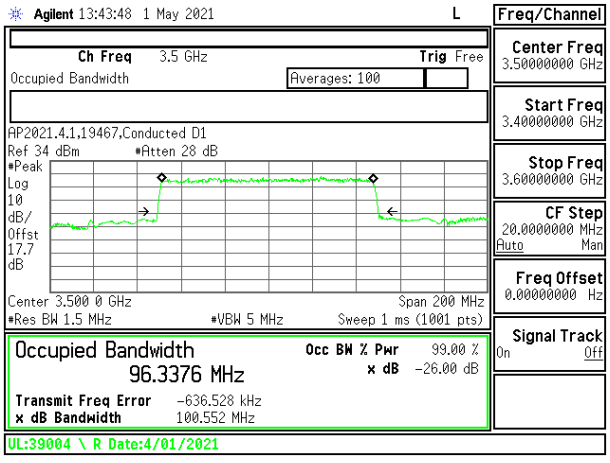
5G NR n77 70MHz BPSK Middle Channel RB180-0



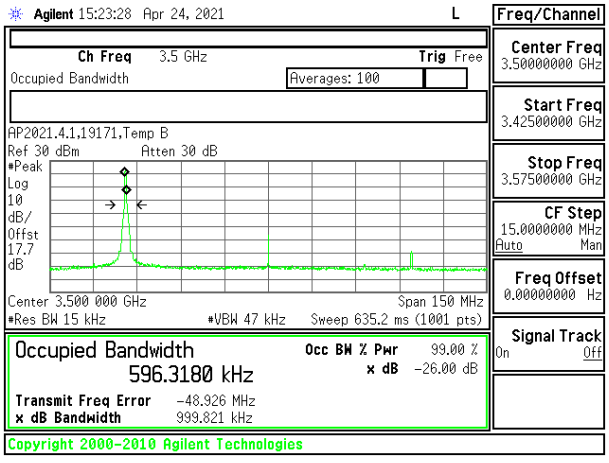
5G NR n77 80MHz BPSK Middle Channel RB216-0



5G NR n77 90MHz BPSK Middle Channel RB243-0

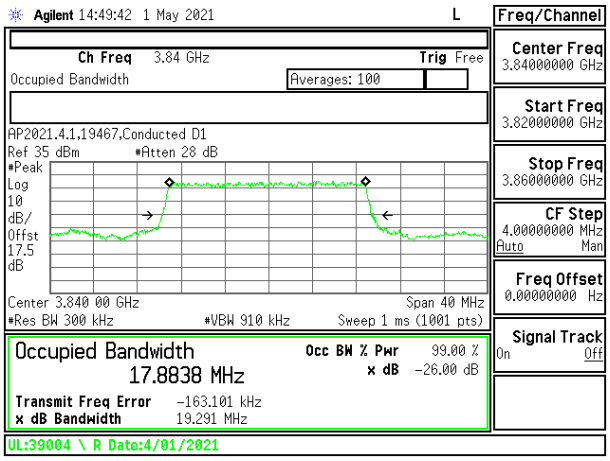


5G NR n77 100MHz BPSK Middle Channel RB270-0

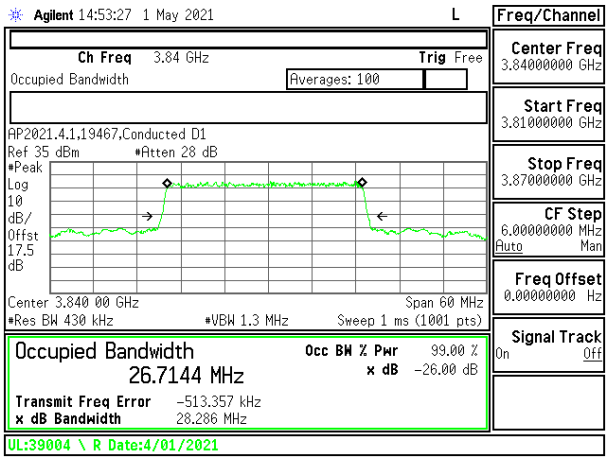


5G NR n77 100MHz BPSK Middle Channel RB1-0

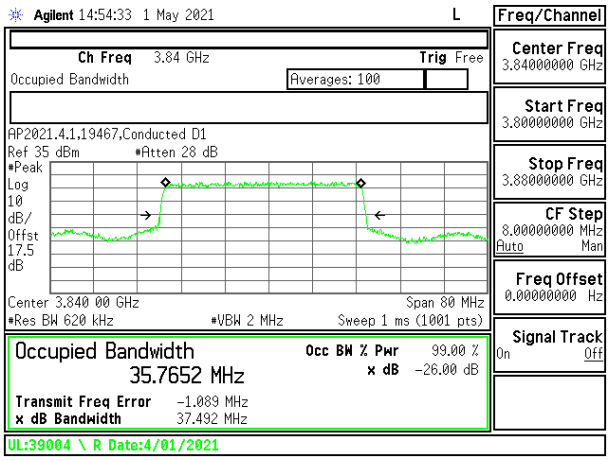
9.1.16. 5G NR n77 (Part 27 3700-3980MHz)



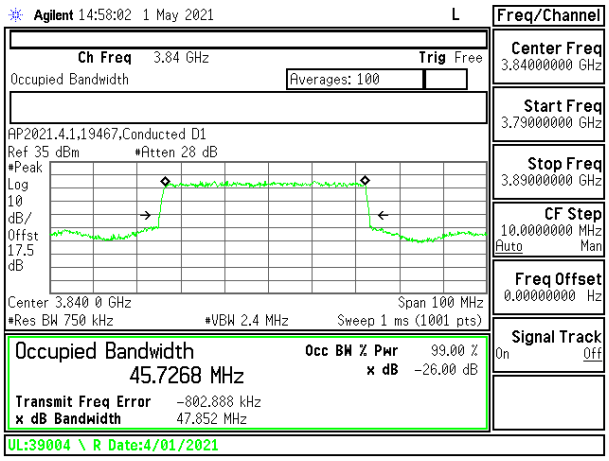
5G NR n77 20MHz BPSK Middle Channel RB50-0



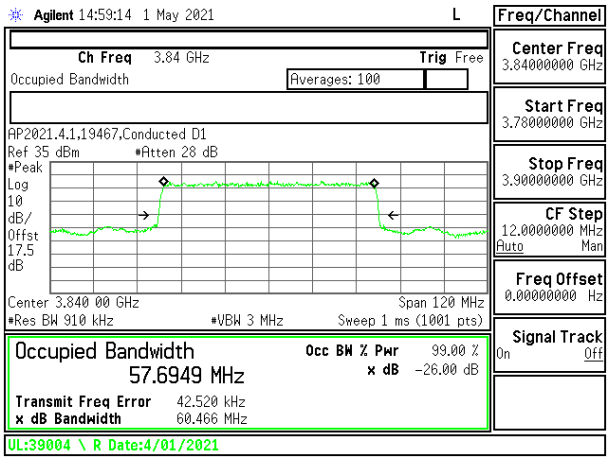
5G NR n77 30MHz BPSK Middle Channel RB75-0



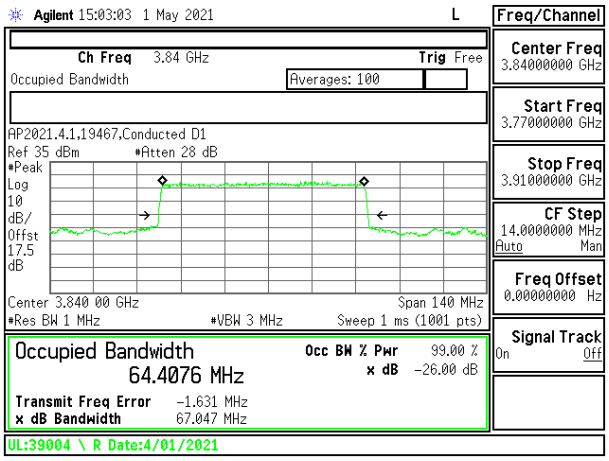
5G NR n77 40MHz BPSK Middle Channel RB100-0



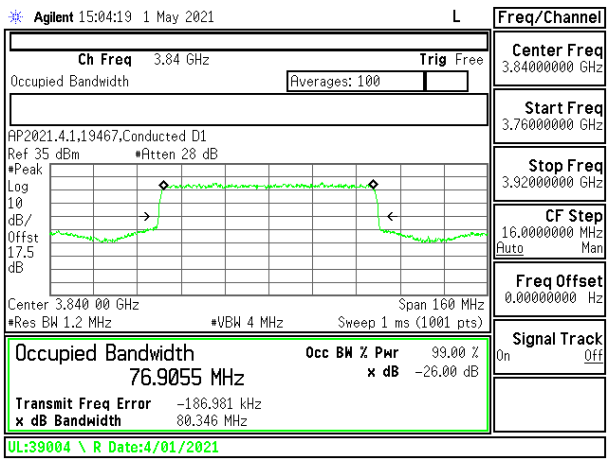
5G NR n77 50MHz BPSK Middle Channel RB128-0



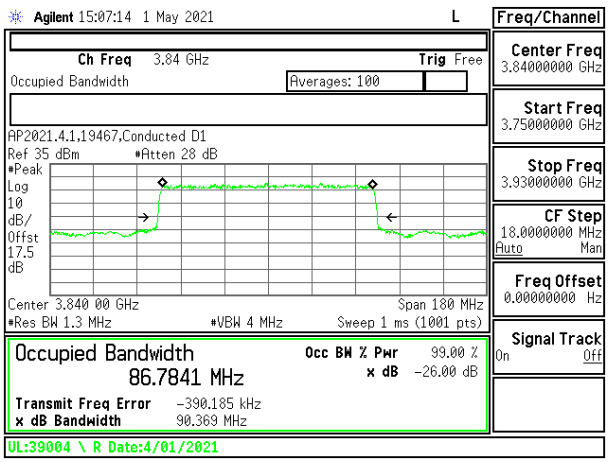
5G NR n77 60MHz BPSK Middle Channel RB162-0



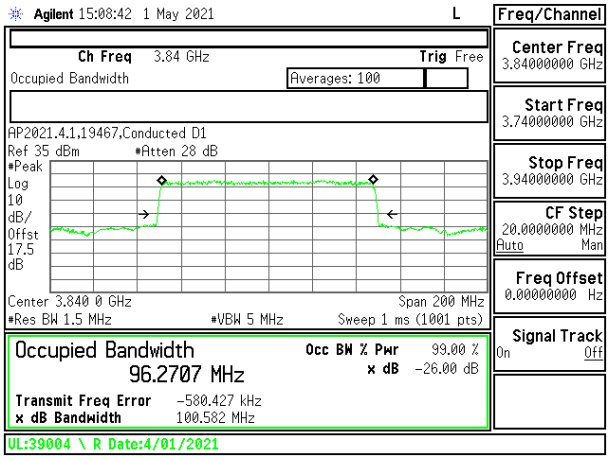
5G NR n77 70MHz BPSK Middle Channel RB180-0



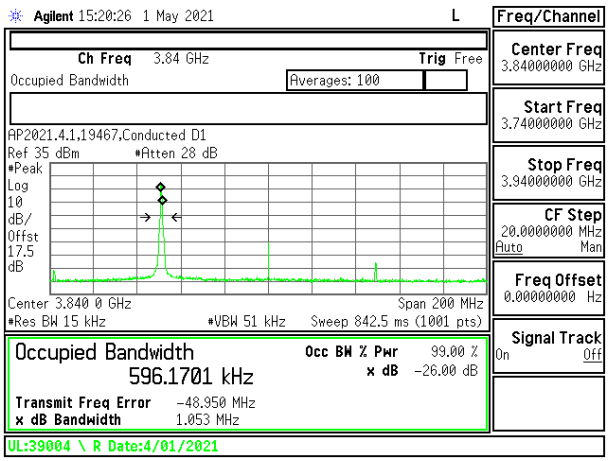
5G NR n77 80MHz BPSK Middle Channel RB216-0



5G NR n77 90MHz BPSK Middle Channel RB243-0



5G NR n77 100MHz BPSK Middle Channel RB270-0



5G NR n77 100MHz BPSK Middle Channel RB1-0

9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

For Spectrum Emission Mask plots, the Keysight PXA N9030A is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (FCC LTE BAND 14)

(b)ACP measurement procedure. The following are the procedures for making the transmitter ACP measurements. For all measurements modulate the transmitter as it would be modulated in normal operating conditions. For time division multiple access (TDMA) systems, the measurements are to be made under TDMA operation only during time slots when the transmitter is active. All measurements are made at the transmitter's output port. If a transmitter has an integral antenna, a suitable power coupling device shall be used to couple the RF signal to the measurement instrument. The coupling device shall substantially maintain the proper transmitter load impedance. The ACP measurements may be made with a spectrum analyzer capable of making direct ACP measurements. “Measurement bandwidth”, as used for non-swept measurements, implies an instrument that measures the power in many narrow bandwidths equal to the nominal resolution bandwidth and integrates these powers to determine the total power in the specified measurement bandwidth.

(1)Setting reference level. Set transmitter to maximum output power. Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth to the channel size. For example, for a 6.25 kHz transmitter set the measurement bandwidth to 6.25 kHz. Set the frequency offset of the measurement bandwidth to zero and adjust the center frequency of the instrument to the assigned center frequency to measure the average power level of the transmitter. Record this power level in dBm as the “reference power level.”

(2)Non-swept power measurement. Using a spectrum analyzer capable of ACP measurements, set the mesurement bandwidth and frequency offset from the assigned center frequency as shown in the tables in §90.543 (a) above. Any value of resolution bandwidth may be used as long as it does not exceed 2 percent of the specified measurement bandwidth. Measure the power level in dBm. These measurements should be made at maximum power. Calculate ACP by substracting the reference power level measured in (b)(1) from the measurements made in this step. The absolute value of the calculated ACP must be greater than or equal to the absolute value of the ACP given in the table for each condition above.

(3)Swept power measurement. Set a spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and average, sample, or RMS detection. Set the reference level of the spectrum analyzer to the RMS value of the transmitter power. Sweep above and below the carrier frequency to the limits defined in the tables. Calculate ACP by substracting the reference power level measured in (b)(1) from the measurements made in this step. The absolute value of the calculated ACP must be greater than or equal to the absolute value of the ACP given in the table for each condition above.

TEST PROCEDURE (FCC LTE BAND 7, 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

TEST PROCEDURE (FCC LTE BAND 30)

(5) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (*i.e.,* 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

TEST PROCEDURE (FCC LTE BAND 48)

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.

(iii) Compliance with emission limits shall be demonstrated using either average (RMS)-detected or peak-detected power measurement techniques.

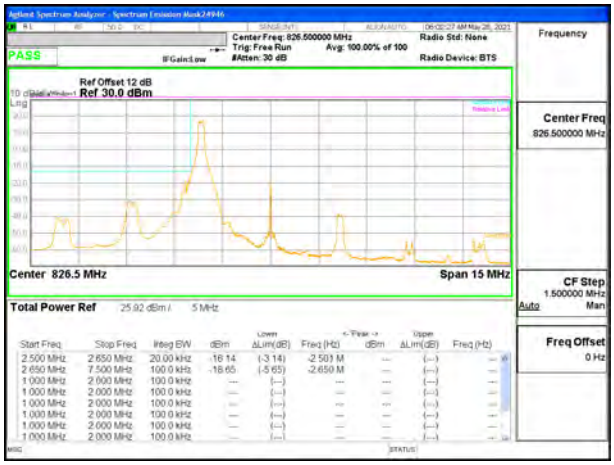
RESULTS

9.2.1. 5G NR n5 EMISSION MASK

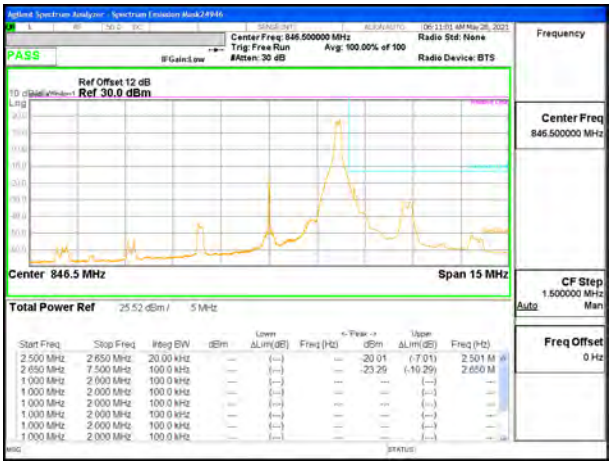
LIMITS

FCC: §22.917 (a)
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

5G NR n5 EMISSION MASK



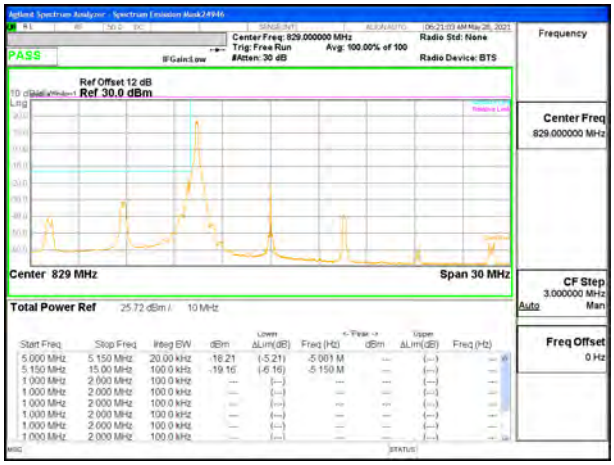
5G NR n5 5MHz BPSK Low Channel RB1-0



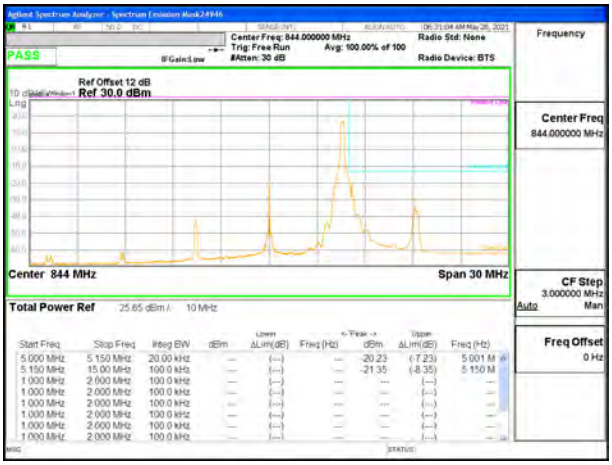
5G NR n5 5MHz BPSK High Channel RB1-24

5G NR n5 5MHz BPSK Low Channel RB25-0

5G NR n5 5MHz BPSK High Channel RB25-0



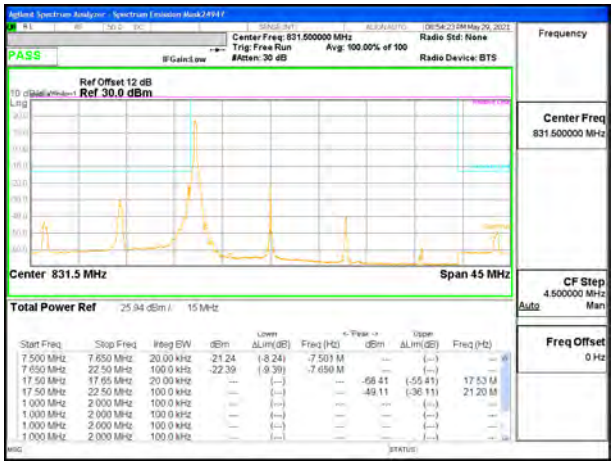
5G NR n5 10MHz BPSK Low Channel RB1-0



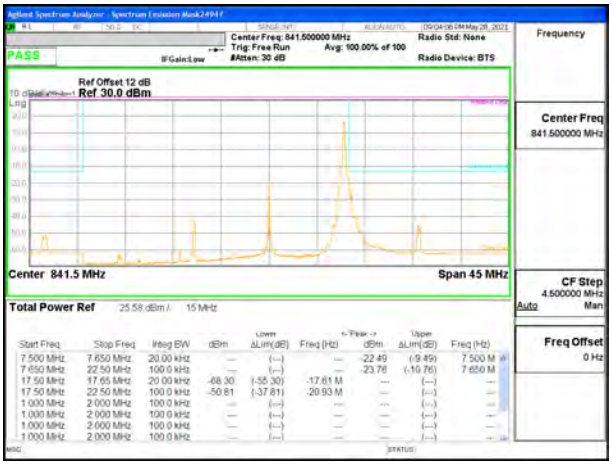
5G NR n5 10MHz BPSK High Channel RB1-51

5G NR n5 10MHz BPSK Low Channel RB50-0

5G NR n5 10MHz BPSK High Channel RB50-0



5G NR n5 15MHz BPSK Low Channel RB1-0



5G NR n5 15MHz BPSK High Channel RB1-78

5G NR n5 15MHz BPSK Low Channel RB75-0

5G NR n5 15MHz BPSK High Channel RB75-0

5G NR n5 20MHz BPSK Low Channel RB1-0

5G NR n5 20MHz BPSK High Channel RB1-105

5G NR n5 20MHz BPSK Low Channel RB100-0

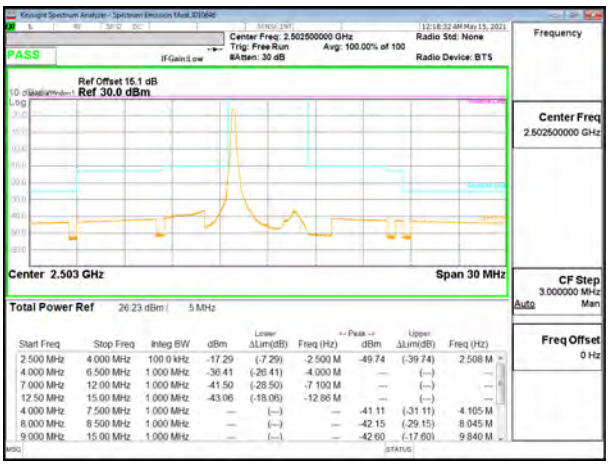
5G NR n5 20MHz BPSK High Channel RB100-0

9.2.2. LTE BAND 7 AND 5G NR n7 EMISSION MASK

LIMITS

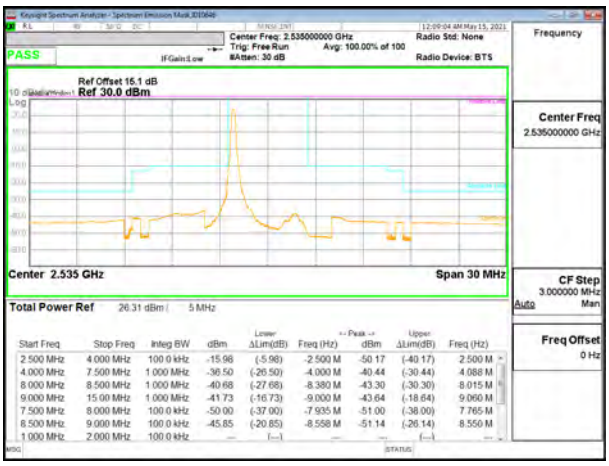
FCC: §27.53
(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

LTE BAND 7 EMISSION MASK

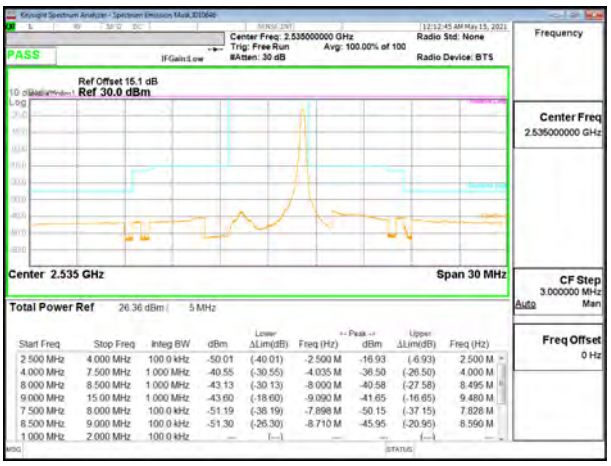


LTE B7 5MHz QPSK Low Channel RB1-0

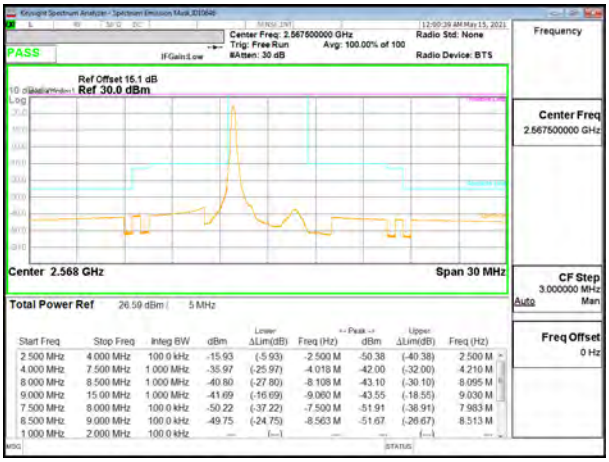
LTE B7 5MHz QPSK Low Channel RB1-24



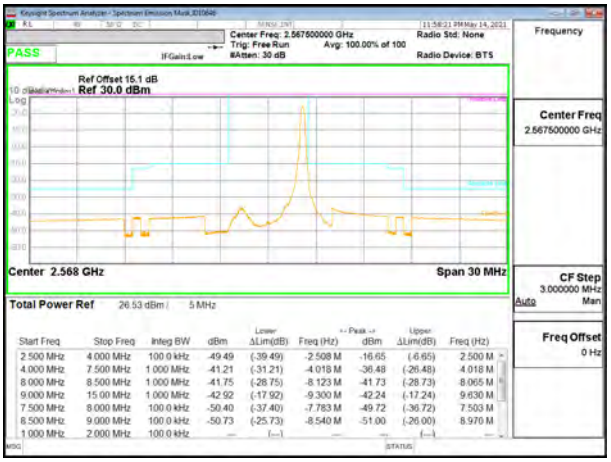
LTE B7 5MHz QPSK Middle Channel RB1-0



LTE B7 5MHz QPSK Middle Channel RB1-24

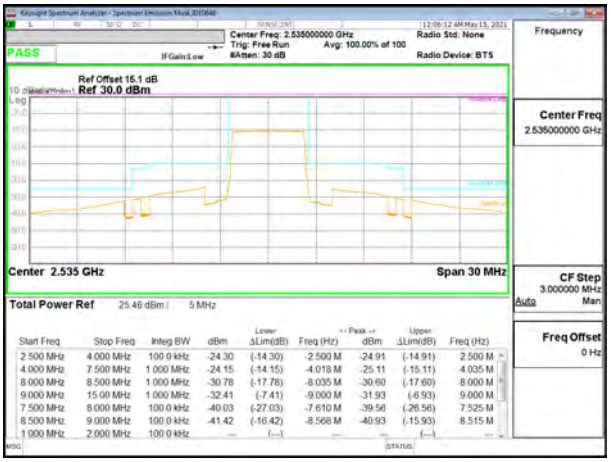


LTE B7 5MHz QPSK High Channel RB1-0



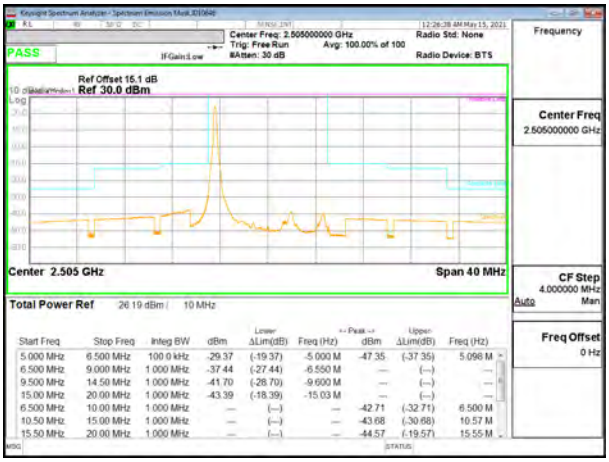
LTE B7 5MHz QPSK High Channel RB1-24

LTE B7 5MHz QPSK Low Channel RB25-0



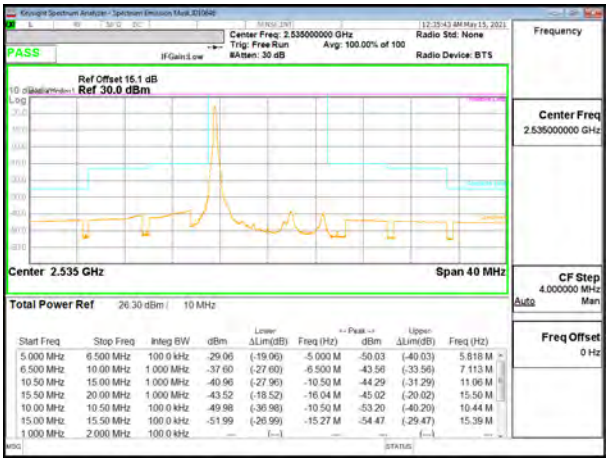
LTE B7 5MHz QPSK Middle Channel RB25-0

LTE B7 5MHz QPSK High Channel RB25-0

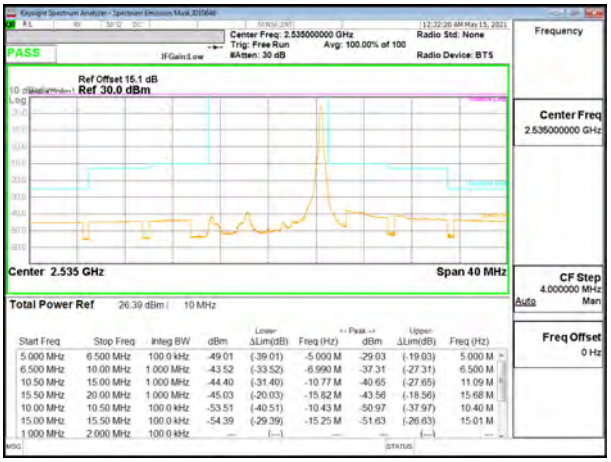


LTE B7 10MHz QPSK Low Channel RB1-0

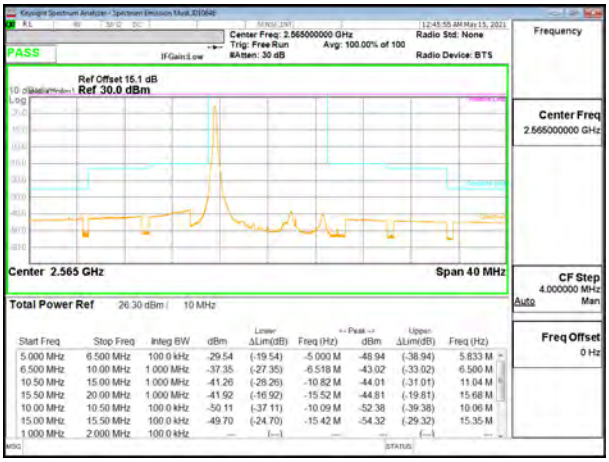
LTE B7 10MHz QPSK Low Channel RB1-49



LTE B7 10MHz QPSK Middle Channel RB1-0



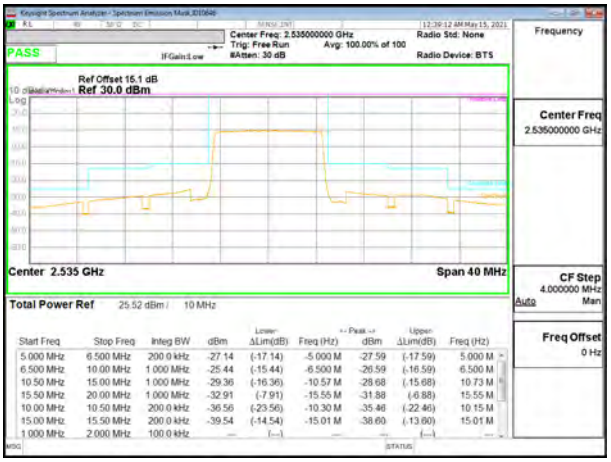
LTE B7 10MHz QPSK Middle Channel RB1-49



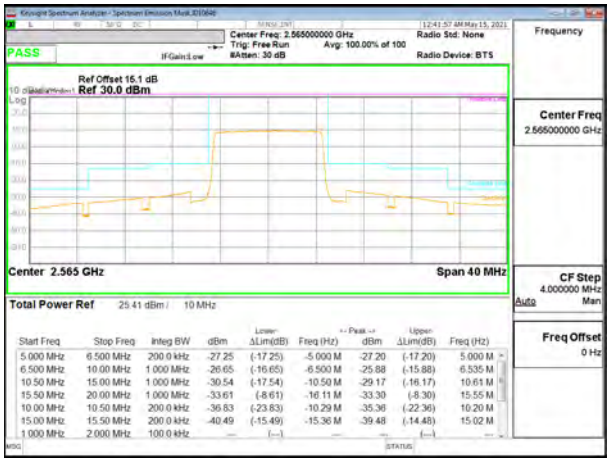
LTE B7 10MHz QPSK High Channel RB1-0

LTE B7 10MHz QPSK High Channel RB1-49

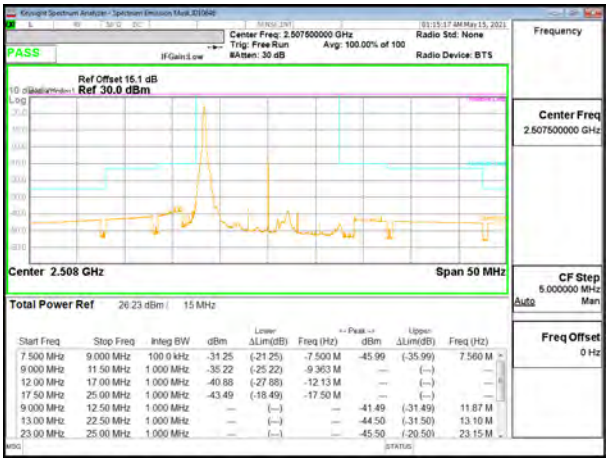
LTE B7 10MHz QPSK Low Channel RB50-0



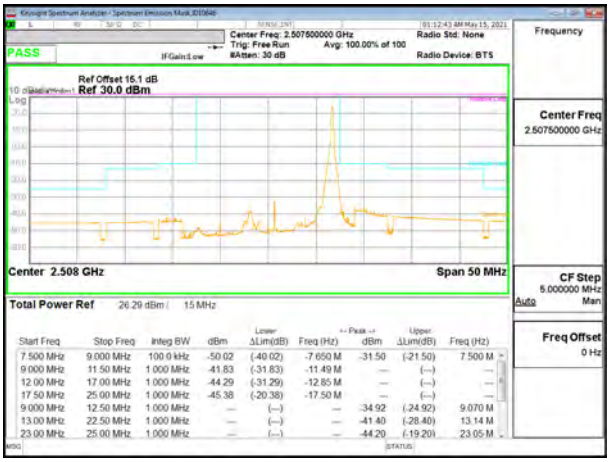
LTE B7 10MHz QPSK Middle Channel RB50-0



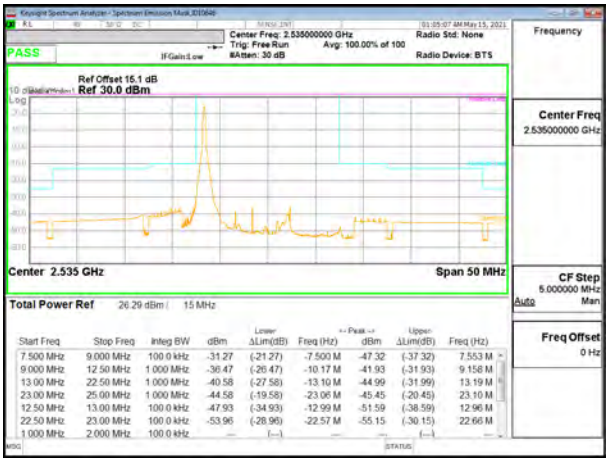
LTE B7 10MHz QPSK High Channel RB50-0



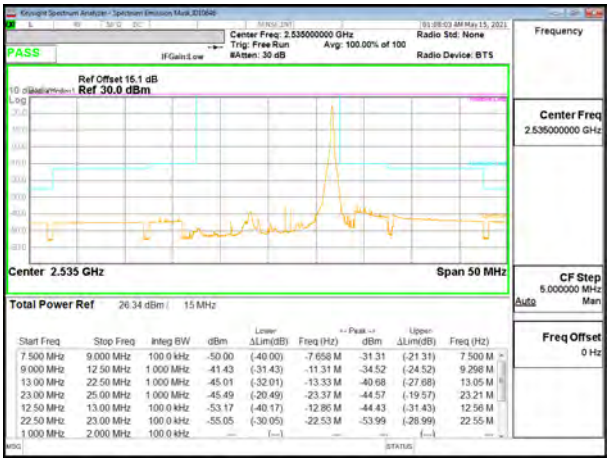
LTE B7 15MHz QPSK Low Channel RB1-0



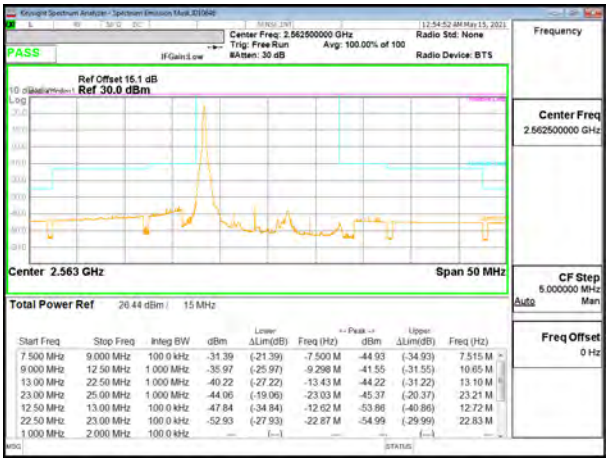
LTE B7 15MHz QPSK Low Channel RB1-74



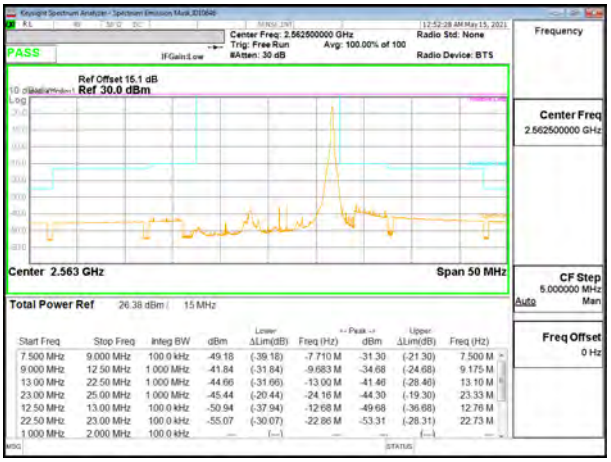
LTE B7 15MHz QPSK Middle Channel RB1-0



LTE B7 15MHz QPSK Middle Channel RB1-74



LTE B7 15MHz QPSK High Channel RB1-0

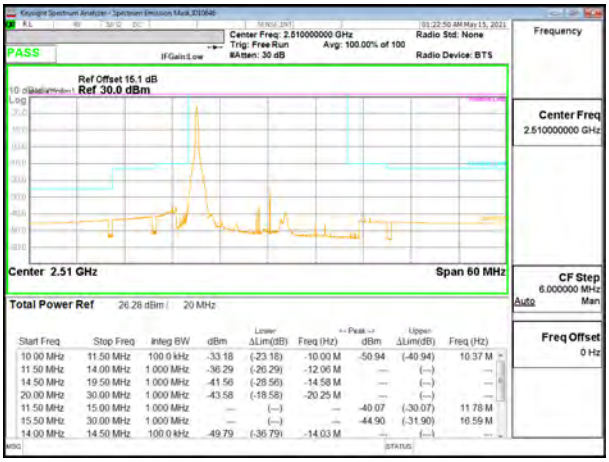


LTE B7 15MHz QPSK High Channel RB1-74

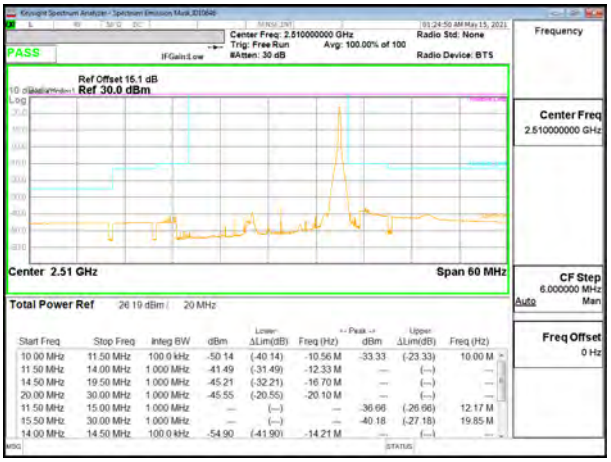
LTE B7 15MHz QPSK Low Channel RB75-0

LTE B7 15MHz QPSK Middle Channel RB75-0

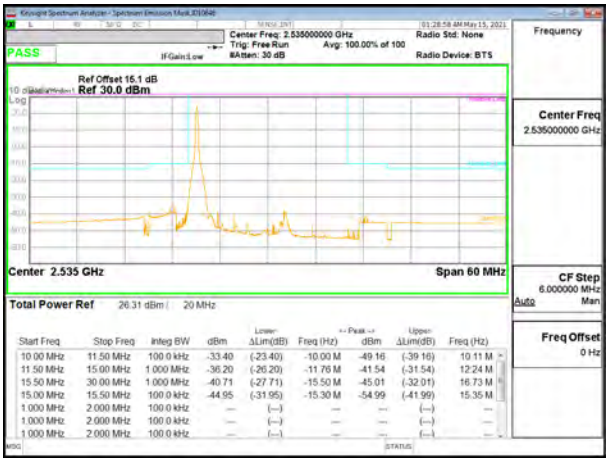
LTE B7 15MHz QPSK High Channel RB75-0



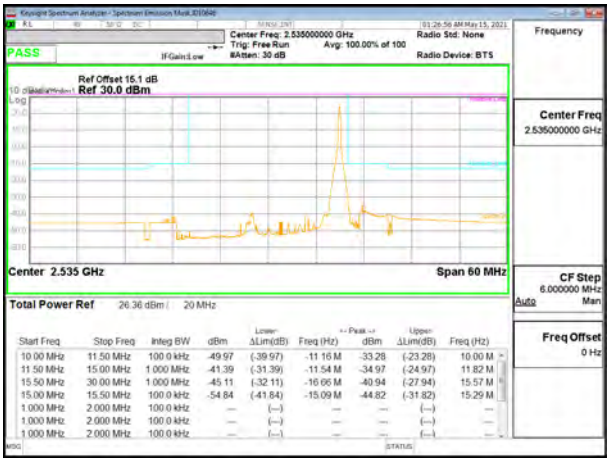
LTE B7 20MHz QPSK Low Channel RB1-0



LTE B7 20MHz QPSK Low Channel RB1-99

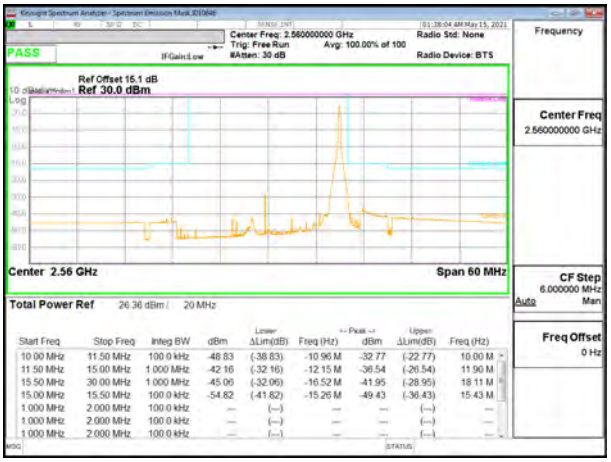


LTE B7 20MHz QPSK Middle Channel RB1-0

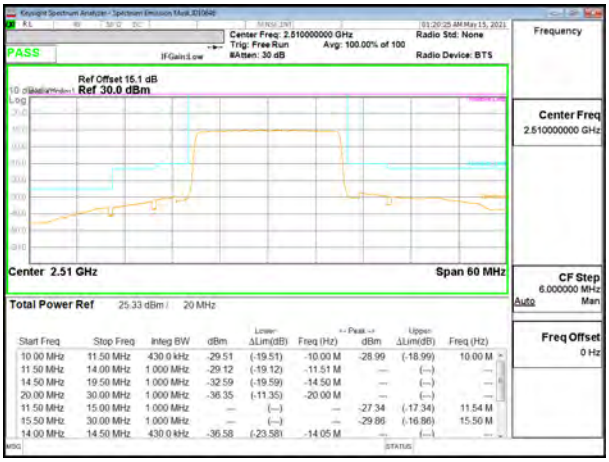


LTE B7 20MHz QPSK Middle Channel RB1-99

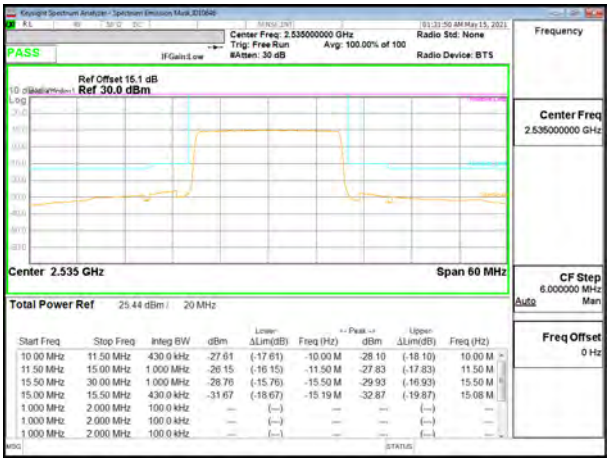
LTE B7 20MHz QPSK High Channel RB1-0



LTE B7 20MHz QPSK High Channel RB1-99



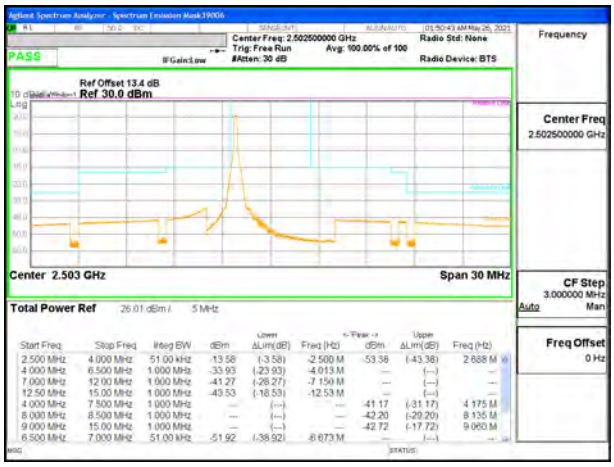
LTE B7 20MHz QPSK Low Channel RB100-0



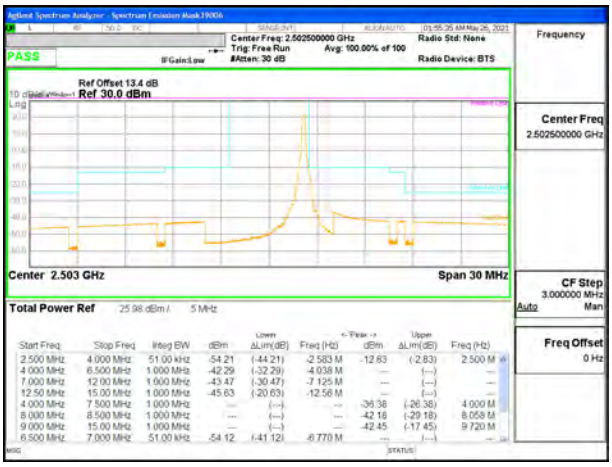
LTE B7 20MHz QPSK Middle Channel RB100-0

LTE B7 20MHz QPSK High Channel RB100-0

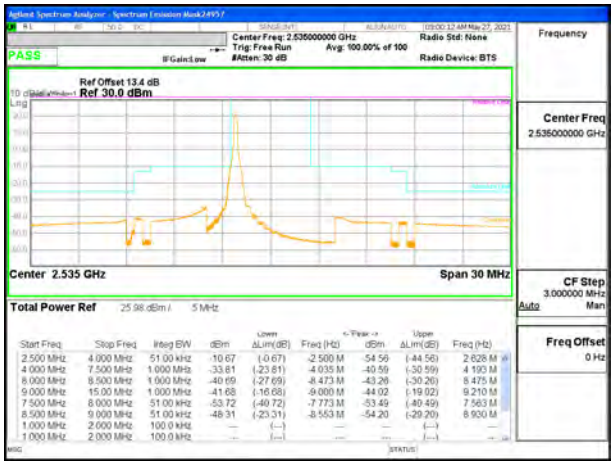
5G NR n7 EMISSION MASK



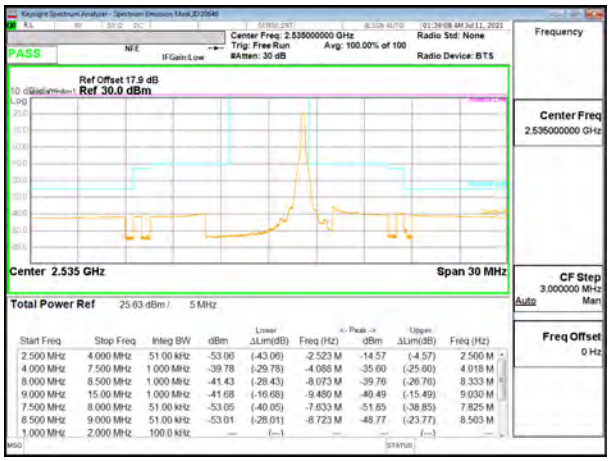
5G NR n7 5MHz BPSK Low Channel RB1-0



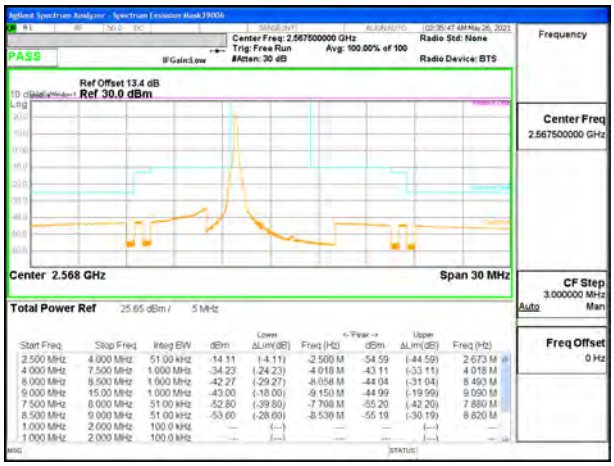
5G NR n7 5MHz BPSK Low Channel RB1-24



5G NR n7 5MHz BPSK Middle Channel RB1-0



5G NR n7 5MHz BPSK Middle Channel RB1-24



5G NR n7 5MHz BPSK High Channel RB1-0

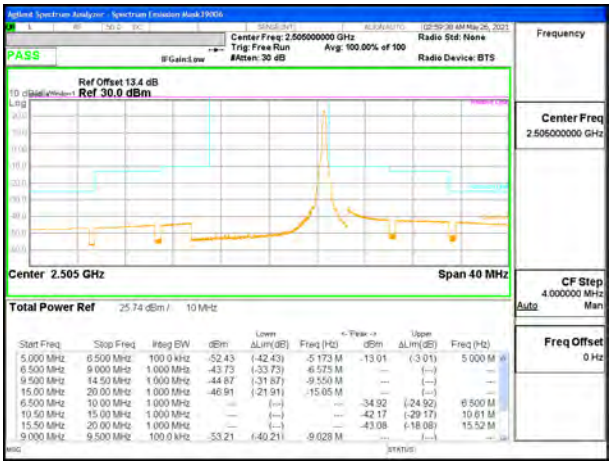
5G NR n7 5MHz BPSK High Channel RB1-24

5G NR n7 5MHz BPSK Low Channel RB25-0

5G NR n7 5MHz BPSK Middle Channel RB25-0

5G NR n7 5MHz BPSK High Channel RB25-0

5G NR n7 10MHz BPSK Low Channel RB1-0



5G NR n7 10MHz BPSK Low Channel RB1-51

5G NR n7 10MHz BPSK Middle Channel RB1-0

5G NR n7 10MHz BPSK Middle Channel RB1-51

5G NR n7 10MHz BPSK High Channel RB1-0

5G NR n7 10MHz BPSK High Channel RB1-51

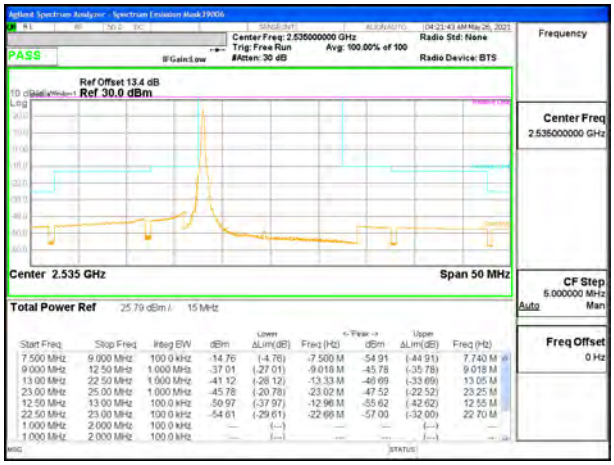
5G NR n7 10MHz BPSK Low Channel RB50-0

5G NR n7 10MHz BPSK Middle Channel RB50-0

5G NR n7 10MHz BPSK High Channel RB50-0

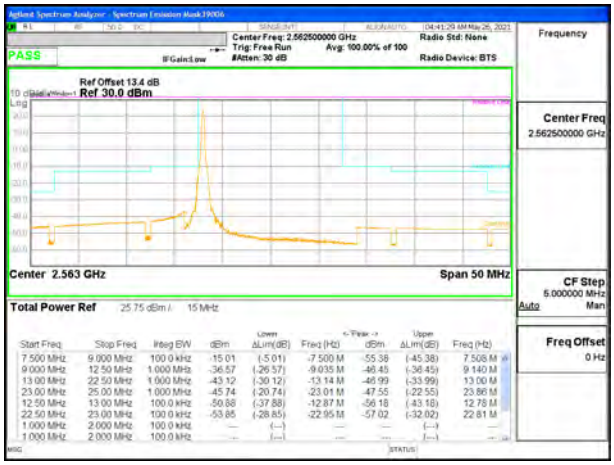
5G NR n7 15MHz BPSK Low Channel RB1-0

5G NR n7 15MHz BPSK Low Channel RB1-78



5G NR n7 15MHz BPSK Middle Channel RB1-0

5G NR n7 15MHz BPSK Middle Channel RB1-78



5G NR n7 15MHz BPSK High Channel RB1-0

5G NR n7 15MHz BPSK High Channel RB1-78

5G NR n7 15MHz BPSK Low Channel RB75-0

5G NR n7 15MHz BPSK Middle Channel RB75-0

5G NR n7 15MHz BPSK High Channel RB75-0

5G NR n7 20MHz BPSK Low Channel RB1-0

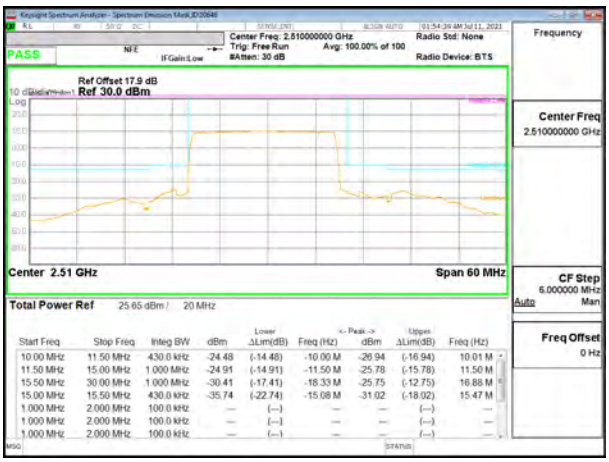
5G NR n7 20MHz BPSK Low Channel RB1-105

5G NR n7 20MHz BPSK Middle Channel RB1-0

5G NR n7 20MHz BPSK Middle Channel RB1-105

5G NR n7 20MHz BPSK High Channel RB1-0

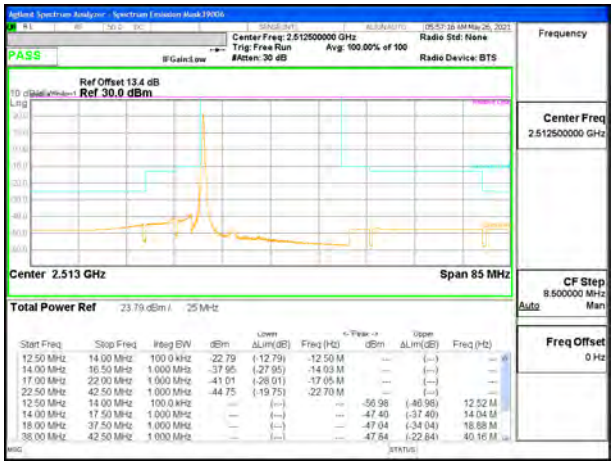
5G NR n7 20MHz BPSK High Channel RB1-105



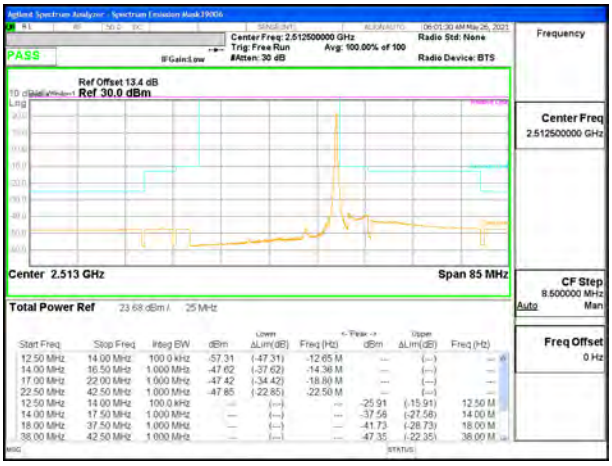
5G NR n7 20MHz BPSK Low Channel RB100-0

5G NR n7 20MHz BPSK Middle Channel RB100-0

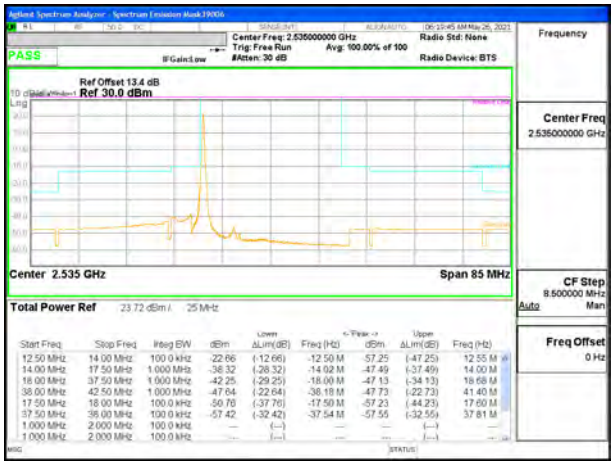
5G NR n7 20MHz BPSK High Channel RB100-0



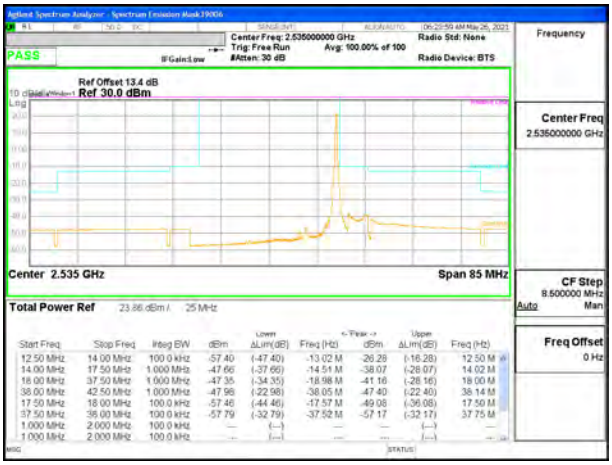
5G NR n7 25MHz BPSK Low Channel RB1-0



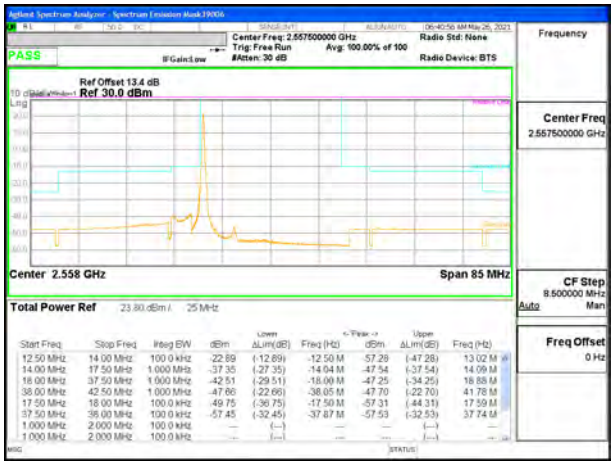
5G NR n7 25MHz BPSK Low Channel RB1-132



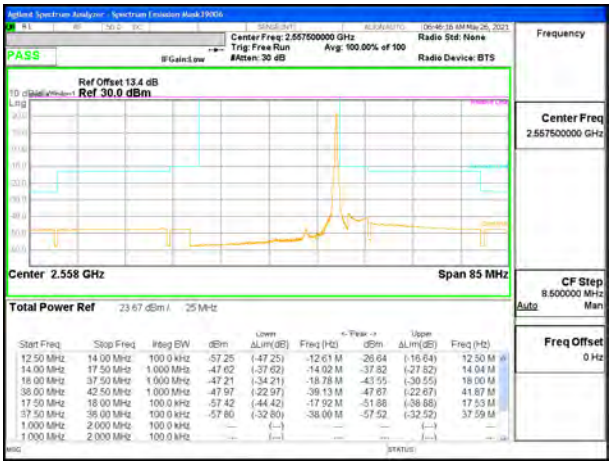
5G NR n7 25MHz BPSK Middle Channel RB1-0



5G NR n7 25MHz BPSK Middle Channel RB1-132



5G NR n7 25MHz BPSK High Channel RB1-0



5G NR n7 25MHz BPSK High Channel RB1-132

5G NR n7 25MHz BPSK Low Channel RB128-0

5G NR n7 25MHz BPSK Middle Channel RB128-0

5G NR n7 25MHz BPSK High Channel RB128-0