

TEST REPORT

Report Number: 14982484-E18V3

Applicant : APPLE, INC
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3081

Brand : APPLE

FCC ID : BCG-E8688A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 22, PART 24, PART 27,
AND PART 90

Date Of Issue:
2024-08-08

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

Rev.	Issue Date	Revisions	Revised By
V1	2024-07-05	Initial Review	Mengistu Mekuria
V2	2024-07-31	Updated Section 6, 8, 9 & 10	Binod Sitaula
V3	2024-08-08	Removed B26 15MHz BW	Binod Sitaula

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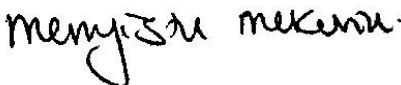
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3081	
Brand	APPLE	
FCC ID	BCG-E8688A	
EUT Description	SMARTPHONE	
Serial Number	Radiated: YCD77JQN20, L6YHHL2R7XF, G5VJH9QNYW Conducted: W0QPLWTPXT, C07H450007Y0000FGR, C07H5V000PZ0000FGR	
Sample Receipt Date	2023-11-16	
Date Tested	2023-11-16 to 2024-06-20	
Applicable Standards	FCC 47 CFR Part 2, Part 22, Part 24, Part 27, and Part 90	
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.		
Approved & Released By:	Reviewed By:	Prepared By:
		
Mengistu Mekuria Staff Laboratory Engineer UL Verification Services Inc.	Binod Sitaula Laboratory Engineer Associate UL Verification Services Inc.	Tewodros Woldemichael 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 data provided by the customer.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.4)

Requirement Description	Band	Requirement Clause Number (FCC)	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	
	71	27.50 (c) (10)	Complies	
Equivalent Isotropic Radiated Power	2, 25	24.232 (c)	Complies	
	4, 66	27.50 (d) (4)	Complies	
	70	27.50 (d) (4)	Complies	
	30	27.50 (a) (3)	Complies	
	7, 41, 38	27.50 (h) (2)	Complies	
	77	27.50 (j) (3), (k) (3)	Complies	

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

3. TEST METHODOLOGY

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

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 22, Part 24, Part 27, and Part 90
- [FCC KDB 971168 D01 v03r01](#) : Power Meas License Digital Systems
- [FCC KDB 971168 D02 v02r02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01 v01r01](#) : Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

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}
Conducted Antenna Port Emission Measurement	1.940
Power Spectral Density	2.466
Time Domain Measurements Using SA	3.39
RF Power Measurement Direct Method Using Power Meter	0.450 Peak; 1.300 Ave.
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 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

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

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

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.

The transmitter has a maximum average conducted and ERP / EIRP output powers as follows:

LTE BAND 7

Part 27								
EIRP Limit (W)			2.00					
Antenna Gain (dBi) Ant(2)			0.70					
3	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	23.70	24.40	0.275	4505	4M51G7W
	16QAM			22.75	23.45	0.221	4502	4M50D7W
10.0	QPSK	2505.0	2565.0	23.70	24.40	0.275	8991	8M99G7W
	16QAM			22.85	23.55	0.226	9001	9M00D7W
15.0	QPSK	2507.5	2562.5	23.70	24.40	0.275	13482	13M5G7W
	16QAM			22.86	23.56	0.227	13452	13M5D7W
20.0	QPSK	2510.0	2560.0	23.70	24.40	0.275	17947	17M9G7W
	16QAM			23.09	23.79	0.239	17952	18M0D7W

5G NR n7

Part 27								
EIRP Limit (W)			2.00					
Antenna Gain (dBi) Ant(2)			0.70					
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	23.70	24.40	0.275	4468	4M47G7W
	QPSK			23.58	24.28	0.268	4500	4M50G7W
	16QAM			22.82	23.52	0.225	4483	4M48D7W
10.0	BPSK	2505.0	2565.0	23.70	24.40	0.275	8945	8M95G7W
	QPSK			23.67	24.37	0.274	8972	8M97G7W
	16QAM			22.87	23.57	0.228	8959	8M96D7W
15.0	BPSK	2507.5	2562.5	23.70	24.40	0.275	13375	13M4G7W
	QPSK			23.49	24.19	0.262	13434	13M4G7W
	16QAM			22.85	23.55	0.226	13429	13M4D7W
20.0	BPSK	2510.0	2560.0	23.70	24.40	0.275	17914	17M9G7W
	QPSK			23.65	24.35	0.272	17867	17M9G7W
	16QAM			22.78	23.48	0.223	17920	17M9D7W
25.0	BPSK	2512.5	2557.5	23.70	24.40	0.275	22862	22M9G7W
	QPSK			23.56	24.26	0.267	22906	22M9G7W
	16QAM			22.70	23.40	0.219	22857	22M9D7W
30.0	BPSK	2515.0	2555.0	23.70	24.40	0.275	28539	28M5G7W
	QPSK			23.38	24.08	0.256	28651	28M7G7W
	16QAM			22.36	23.06	0.202	28629	28M6D7W
35.0	BPSK	2517.5	2552.5	23.70	24.40	0.275	32165	32M2G7W
	QPSK			23.62	24.32	0.270	32114	32M1G7W
	16QAM			22.81	23.51	0.224	32154	32M2D7W
40.0	BPSK	2520.0	2550.0	23.70	24.40	0.275	38606	38M6G7W
	QPSK			23.68	24.38	0.274	38483	38M5G7W
	16QAM			22.91	23.61	0.230	38522	38M5D7W

LTE BAND 12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_Ant(1)		-4.40						
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	19.15	0.082	1092	1M09G7W
	16QAM			25.19	18.64	0.073	1099	1M10D7W
3.0	QPSK	700.5	714.5	25.70	19.15	0.082	2711	2M71G7W
	16QAM			25.22	18.67	0.074	2703	2M70D7W
5.0	QPSK	701.5	713.5	25.70	19.15	0.082	4500	4M50G7W
	16QAM			25.20	18.65	0.073	4500	4M50D7W
10.0	QPSK	704.0	711.0	25.70	19.15	0.082	8983	8M98G7W
	16QAM			25.27	18.72	0.074	8956	8M96D7W

5G NR n12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_Ant(1)		-4.40						
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	701.5	713.5	25.67	19.12	0.082	4509	4M51G7W
	QPSK			25.70	19.15	0.082	4481	4M48G7W
	16QAM			25.18	18.63	0.073	4474	4M47D7W
10.0	BPSK	704.0	711.0	25.69	19.14	0.082	8957	8M96G7W
	QPSK			25.70	19.15	0.082	8917	8M92G7W
	16QAM			25.15	18.60	0.072	8945	8M95D7W
15.0	BPSK	706.5	708.5	25.67	19.12	0.082	13443	13M4G7W
	QPSK			25.70	19.15	0.082	13403	13M4G7W
	16QAM			24.90	18.35	0.068	13420	13M4D7W

LTE BAND 13

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_Ant(1)		-5.70						
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	17.85	0.061	4499	4M50G7W
	16QAM			25.11	17.26	0.053	4508	4M51D7W
10.0	QPSK	782.0	782.0	25.70	17.85	0.061	8954	8M95G7W
	16QAM			25.19	17.34	0.054	8968	8M97D7W

LTE BAND 14

Part 90R								
ERP Limit (W)			3.00					
Antenna Gain (dBi) Ant(1)			-5.70					
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	17.85	0.061	4518	4M52G7W
	16QAM			25.17	17.32	0.054	4506	4M51D7W
10.0	QPSK	793.0	793.0	25.70	17.85	0.061	8972	8M97G7W
	16QAM			25.14	17.29	0.054	8965	8M97D7W

5G NR n14

Part 90R								
ERP Limit (W)			3.00					
Antenna Gain (dBi) Ant(1)			-5.70					
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	790.5	795.5	25.66	17.81	0.060	4501	4M50G7W
	QPSK			25.70	17.85	0.061	4480	4M48G7W
	16QAM			25.02	17.17	0.052	4491	4M49D7W
10.0	BPSK	793.0	793.0	25.70	17.85	0.061	8943	8M94G7W
	QPSK			25.63	17.78	0.060	8945	8M95G7W
	16QAM			24.99	17.14	0.052	8963	8M96D7W

LTE BAND 17

Part 27								
ERP Limit (W)			3.00					
Antenna Gain (dBi) Ant(1)			-4.40					
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	706.5	713.5	25.70	19.15	0.082	4497	4M50G7W
	16QAM			25.19	18.64	0.073	4500	4M50D7W
10.0	QPSK	709.0	711.0	25.70	19.15	0.082	8967	8M97G7W
	16QAM			25.24	18.69	0.074	8975	8M98D7W

LTE BAND 25

Part 24								
EIRP Limit (W)		2.00						
Antenna Gain(dBi) _Ant(3)		-1.40						
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	1850.7	1914.3	25.50	24.10	0.257	1096	1M10G7W
	16QAM			24.88	23.48	0.223	1095	1M10D7W
3.0	QPSK	1851.5	1913.5	25.50	24.10	0.257	2698	2M70G7W
	16QAM			24.71	23.31	0.214	2708	2M71D7W
5.0	QPSK	1852.5	1912.5	25.50	24.10	0.257	4506	4M51G7W
	16QAM			24.75	23.35	0.216	4503	4M50D7W
10.0	QPSK	1855.0	1910.0	25.50	24.10	0.257	8975	8M98G7W
	16QAM			24.72	23.32	0.215	8988	8M99D7W
15.0	QPSK	1857.5	1907.5	25.50	24.10	0.257	13478	13M5G7W
	16QAM			24.72	23.32	0.215	13452	13M5D7W
20.0	QPSK	1860.0	1905.0	25.50	24.10	0.257	17987	18M0G7W
	16QAM			24.89	23.49	0.223	17939	17M9D7W

5G NR n25

Part 24								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) _Ant(3)		-1.40						
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	1852.5	1912.5	25.43	24.03	0.253	4492	4M49G7W
	QPSK			25.50	24.10	0.257	4494	4M49G7W
	16QAM			24.86	23.46	0.222	4463	4M46D7W
10.0	BPSK	1855.0	1910.0	25.46	24.06	0.255	8957	8M96G7W
	QPSK			25.50	24.10	0.257	8969	8M97G7W
	16QAM			24.80	23.40	0.219	8954	8M95D7W
15.0	BPSK	1857.5	1907.5	25.46	24.06	0.255	13425	13M4G7W
	QPSK			25.50	24.10	0.257	13401	13M4G7W
	16QAM			24.86	23.46	0.222	13477	13M5D7W
20.0	BPSK	1860.0	1905.0	25.44	24.04	0.254	17904	17M9G7W
	QPSK			25.50	24.10	0.257	17953	18M0G7W
	16QAM			24.90	23.50	0.224	17870	17M9D7W
25.0	BPSK	1862.5	1902.5	25.48	24.08	0.256	22859	22M9G7W
	QPSK			25.50	24.10	0.257	22927	22M9G7W
	16QAM			24.99	23.59	0.229	22939	22M9D7W
30.0	BPSK	1865.0	1900.0	25.43	24.03	0.253	28646	28M6G7W
	QPSK			25.50	24.10	0.257	28657	28M7G7W
	16QAM			24.69	23.29	0.213	28583	28M6D7W
35.0	BPSK	1867.5	1897.5	25.49	24.09	0.256	32177	32M2G7W
	QPSK			25.50	24.10	0.257	32120	32M1G7W
	16QAM			24.81	23.41	0.219	32218	32M2D7W
40.0	BPSK	1870.0	1895.0	25.44	24.04	0.254	38511	38M5G7W
	QPSK			25.50	24.10	0.257	38572	38M6G7W
	16QAM			24.85	23.45	0.221	38729	38M7D7W

LTE BAND 26 (FCC Part 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi)_Ant(1)		-4.60							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.70	0.37	18.95	0.079	1091	1M09G7W
	16QAM			25.15	0.33	18.40	0.069	1094	1M09D7W
3.0	QPSK	815.5	822.5	25.70	0.37	18.95	0.079	2703	2M70G7W
	16QAM			25.13	0.33	18.38	0.069	2700	2M70D7W
5.0	QPSK	816.5	821.5	25.70	0.37	18.95	0.079	4495	4M50G7W
	16QAM			25.18	0.33	18.43	0.070	4506	4M51D7W
10.0	QPSK	819.0	819.0	25.70	0.37	18.95	0.079	8973	8M97G7W
	16QAM			25.19	0.33	18.44	0.070	8975	8M98D7W

5G NR n26 (FCC Part 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi)_Ant(1)		-4.60							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	816.5	821.5	25.53	0.36	18.78	0.076	4486	4M49G7W
	QPSK			25.70	0.37	18.95	0.079	4475	4M48G7W
	16QAM			25.12	0.33	18.37	0.069	4478	4M48D7W
10.0	BPSK	819.0	819.0	25.70	0.37	18.95	0.079	8922	8M92G7W
	QPSK			25.69	0.37	18.94	0.078	8973	8M97G7W
	16QAM			25.02	0.32	18.27	0.067	8977	8M98D7W

LTE BAND 26 (FCC Part 22)

Part 22								
ERP Limit (W)		7.00						
Antenna Gain (dBi) Ant(1)		-4.60						
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	18.95	0.079	1092	1M09G7W
	16QAM			25.12	18.37	0.069	1097	1M10D7W
3.0	QPSK	825.5	847.5	25.70	18.95	0.079	2702	2M70G7W
	16QAM			25.15	18.40	0.069	2708	2M71D7W
5.0 10.0	QPSK	826.5	846.5	25.70	18.95	0.079	4504	4M50G7W
	16QAM			25.21	18.46	0.070	4499	4M50D7W
	QPSK	829.0	844.0	25.70	18.95	0.079	8968	8M97G7W
	16QAM			25.15	18.40	0.069	8976	8M98D7W

5G NR n26 (FCC Part 22)

Part 22								
ERP Limit (W)		7.00						
Antenna Gain (dBi) Ant(1)		-4.60						
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	25.49	18.74	0.075	4492	4M49G7W
	QPSK			25.70	18.95	0.079	4489	4M49G7W
	16QAM			24.91	18.16	0.065	4508	4M51D7W
10.0	BPSK	829.0	844.0	25.70	18.95	0.079	8962	8M96G7W
	QPSK			25.69	18.94	0.078	8947	8M95G7W
	16QAM			24.94	18.19	0.066	8916	8M92D7W
15.0	BPSK	831.5	841.5	25.60	18.85	0.077	13430	13M4G7W
	QPSK			25.70	18.95	0.079	13429	13M4G7W
	16QAM			25.06	18.31	0.068	13387	13M4D7W
20.0	BPSK	834.0	839.0	25.70	18.95	0.079	17894	17M9G7W
	QPSK			25.62	18.87	0.077	17887	17M9G7W
	16QAM			24.99	18.24	0.067	17814	17M8D7W

LTE BAND 30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi) Ant(4)		0.30						
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	22.70	23.00	0.200	4506	4M51G7W
	16QAM			21.85	22.15	0.164	4511	4M51D7W
10.0	QPSK	2310.0	2310.0	22.70	23.00	0.200	8976	8M98G7W
	16QAM			21.84	22.14	0.164	8983	8M98D7W

5G NR n30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi) Ant(4)		0.30						
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	22.20	22.50	0.178	4500	4M50G7W
	QPSK			21.74	22.04	0.160	4479	4M48G7W
	16QAM			20.67	20.97	0.125	4472	4M47D7W
10.0	BPSK	2310.0	2310.0	22.20	22.50	0.178	8961	8M96G7W
	QPSK			21.23	21.53	0.142	8947	8M95G7W
	16QAM			20.31	20.61	0.115	8951	8M95D7W

LTE BAND 41

Part 27								
EIRP Limit (W)			2.00					
Antenna Gain (dBi)_Ant(2)			0.00					
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	28.55	28.55	0.716	4501	4M50G7W
	16QAM			28.70	28.70	0.741	4486	4M49D7W
10.0	QPSK	2501.0	2685.0	28.57	28.57	0.719	8974	8M97G7W
	16QAM			28.70	28.70	0.741	8989	8M99D7W
15.0	QPSK	2503.5	2682.5	28.62	28.62	0.728	13416	13M4G7W
	16QAM			28.70	28.70	0.741	13443	13M4D7W
20.0	QPSK	2506.0	2680.0	28.47	28.47	0.703	17864	17M9G7W
	16QAM			28.70	28.70	0.741	17923	17M9D7W

5G NR n41

Part 27								
EIRP Limit (W)			2.00					
Antenna Gain (dBi)_Ant(2)			0.00					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	2501.0	2685.0	28.70	28.70	0.741	8629	8M63G7W
	QPSK			28.35	28.35	0.684	8635	8M64G7W
	16QAM			27.77	27.77	0.598	8572	8M57D7W
15.0	BPSK	2503.5	2682.5	28.70	28.70	0.741	12931	12M9G7W
	QPSK			28.34	28.34	0.682	12951	13M0G7W
	16QAM			27.70	27.70	0.589	12896	12M9D7W
20.0	BPSK	2506.5	2680.0	28.70	28.70	0.741	17928	17M9G7W
	QPSK			27.99	27.99	0.630	17916	17M9G7W
	16QAM			27.66	27.66	0.583	17925	17M9D7W
30.0	BPSK	2511.0	2675.0	28.70	28.70	0.741	26769	26M8G7W
	QPSK			27.84	27.84	0.608	26885	26M9G7W
	16QAM			27.53	27.53	0.566	26811	26M8D7W
40.0	BPSK	2516.0	2670.0	28.70	28.70	0.741	35936	35M9G7W
	QPSK			28.38	28.38	0.689	35646	35M6G7W
	16QAM			27.84	27.84	0.608	35886	35M9D7W
50.0	BPSK	2521.0	2665.0	28.70	28.70	0.741	45810	45M8G7W
	QPSK			28.58	28.58	0.721	45806	45M8G7W
	16QAM			28.06	28.06	0.640	45697	45M7D7W
60.0	BPSK	2526.0	2660.0	28.52	28.52	0.711	57934	57M9G7W
	QPSK			28.70	28.70	0.741	58032	58M0G7W
	16QAM			27.52	27.52	0.565	57791	57M8D7W
70.0	BPSK	2531.0	2655.0	28.61	28.61	0.726	64159	64M2G7W
	QPSK			28.70	28.70	0.741	64325	64M3G7W
	16QAM			27.91	27.91	0.618	64428	64M4D7W
80.0	BPSK	2536.0	2650.0	28.70	28.70	0.741	77107	77M1G7W
	QPSK			28.64	28.64	0.731	77086	77M1G7W
	16QAM			27.74	27.74	0.594	77241	77M2D7W
90.0	BPSK	2541.0	2645.0	28.70	28.70	0.741	86636	86M6G7W
	QPSK			28.39	28.39	0.690	86926	86M9G7W
	16QAM			27.29	27.29	0.536	86715	86M7D7W
100.0	BPSK	2546.0	2640.0	28.62	28.62	0.728	96276	96M3G7W
	QPSK			28.70	28.70	0.741	96442	96M4G7W
	16QAM			27.32	27.32	0.540	96633	96M6D7W

LTE BAND 66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) Ant(3)		-2.00						
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	25.50	23.50	0.224	1089	1M09G7W
	16QAM			24.70	22.70	0.186	1096	1M10D7W
3.0	QPSK	1711.5	1778.5	25.50	23.50	0.224	2700	2M70G7W
	16QAM			24.73	22.73	0.187	2701	2M70D7W
5.0	QPSK	1712.5	1777.5	25.50	23.50	0.224	4501	4M50G7W
	16QAM			24.68	22.68	0.185	4508	4M51D7W
10.0	QPSK	1715.0	1775.0	25.50	23.50	0.224	8984	8M98G7W
	16QAM			24.81	22.81	0.191	8992	8M99D7W
15.0	QPSK	1717.5	1772.5	25.50	23.50	0.224	13453	13M5G7W
	16QAM			24.77	22.77	0.189	13454	13M5D7W
20.0	QPSK	1720.0	1770.0	25.50	23.50	0.224	17913	17M9G7W
	16QAM			24.97	22.97	0.198	17938	17M9D7W

5G NR n66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) Ant(3)		-2.00						
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	25.35	23.35	0.216	4490	4M49G7W
	QPSK			25.50	23.50	0.224	4501	4M50G7W
	16QAM			24.99	22.99	0.199	4504	4M50D7W
10.0	BPSK	1715.0	1775.0	25.50	23.50	0.224	8960	8M96G7W
	QPSK			25.45	23.45	0.221	8970	8M97G7W
	16QAM			25.01	23.01	0.200	8980	8M98D7W
15.0	BPSK	1717.5	1772.5	25.50	23.50	0.224	13424	13M4G7W
	QPSK			25.43	23.43	0.220	13441	13M4G7W
	16QAM			25.03	23.03	0.201	13366	13M4D7W
20.0	BPSK	1720.0	1770.0	25.50	23.50	0.224	17899	17M9G7W
	QPSK			25.49	23.49	0.223	17959	18M0G7W
	16QAM			24.90	22.90	0.195	17873	17M9D7W
25.0	BPSK	1722.5	1767.5	25.50	23.50	0.224	22858	22M9G7W
	QPSK			25.47	23.47	0.222	22849	22M8G7W
	16QAM			24.84	22.84	0.192	22926	22M9D7W
30.0	BPSK	1725.0	1765.0	25.50	23.50	0.224	28552	28M6G7W
	QPSK			25.38	23.38	0.218	28601	28M6G7W
	16QAM			24.75	22.75	0.188	28663	28M7D7W
35.0	BPSK	1727.5	1767.5	25.35	23.35	0.216	32090	32M1G7W
	QPSK			25.50	23.50	0.224	32135	32M1G7W
	16QAM			24.74	22.74	0.188	32083	32M1D7W
40.0	BPSK	1730.0	1760.0	25.50	23.50	0.224	38603	38M6G7W
	QPSK			25.42	23.42	0.220	38572	38M6G7W
	16QAM			24.82	22.82	0.191	38538	38M5D7W

5G NR n70

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_Ant(4)		-2.00						
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	1697.5	1707.5	25.02	23.02	0.200	4492	4M49G7W
	QPSK			25.20	23.20	0.209	4490	4M49G7W
	16QAM			24.48	22.48	0.177	4476	4M48D7W
10.0	BPSK	1700.0	1705.0	24.94	22.94	0.197	8963	8M96G7W
	QPSK			25.20	23.20	0.209	8927	8M93G7W
	16QAM			24.34	22.34	0.171	8970	8M97D7W
15.0	BPSK	1702.5	1702.5	25.15	23.15	0.207	13486	13M5G7W
	QPSK			25.20	23.20	0.209	13434	13M4G7W
	16QAM			24.52	22.52	0.179	13391	13M4D7W

LTE BAND 71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_Ant(1)		-4.20						
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	19.35	0.086	4499	4M50G7W
	16QAM			24.46	18.11	0.065	4503	4M50D7W
10.0	QPSK	668.0	693.0	25.70	19.35	0.086	8961	8M96G7W
	16QAM			24.51	18.16	0.065	8966	8M97D7W
15.0	QPSK	670.5	690.5	25.70	19.35	0.086	13443	13M4G7W
	16QAM			24.27	17.92	0.062	13456	13M5D7W
20.0	QPSK	673.0	688.0	25.70	19.35	0.086	17872	17M9G7W
	16QAM			24.57	18.22	0.066	17920	17M9D7W

5G NR n71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_Ant(1)		-4.20						
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	19.35	0.086	4492	4M49G7W
	QPSK			25.56	19.21	0.083	4483	4M48G7W
	16QAM			25.06	18.71	0.074	4480	4M48D7W
10.0	BPSK	668.0	693.0	25.70	19.35	0.086	8978	8M98G7W
	QPSK			25.51	19.16	0.082	8943	8M94G7W
	16QAM			24.88	18.53	0.071	8959	8M96D7W
15.0	BPSK	670.5	690.5	25.70	19.35	0.086	13384	13M4G7W
	QPSK			25.67	19.32	0.086	13411	13M4G7W
	16QAM			25.42	19.07	0.081	13425	13M4D7W
20.0	BPSK	673.0	688.0	25.67	19.32	0.086	17846	17M8G7W
	QPSK			25.70	19.35	0.086	17867	17M9G7W
	16QAM			24.91	18.56	0.072	17794	17M8D7W

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

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) _Ant(9)		-3.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	3455.0	3545.0	28.70	24.90	0.309	8652	8M65G7W
	QPSK			28.63	24.83	0.304	8587	8M59G7W
	16QAM			27.81	24.01	0.252	8586	8M59D7W
15.0	BPSK	3457.5	3542.5	28.70	24.90	0.309	12931	12M9G7W
	QPSK			28.62	24.82	0.303	12956	13M0G7W
	16QAM			27.62	23.82	0.241	12867	12M9D7W
20.0	BPSK	3460.0	3540.0	28.66	24.86	0.306	17914	17M9G7W
	QPSK			28.70	24.90	0.309	17923	17M9G7W
	16QAM			27.73	23.93	0.247	17937	17M9D7W
30.0	BPSK	3465.0	3535.0	28.55	24.75	0.299	26864	26M9G7W
	QPSK			28.70	24.90	0.309	26869	26M9G7W
	16QAM			27.67	23.87	0.244	26840	26M8D7W
40.0	BPSK	3470.0	3530.0	28.69	24.89	0.308	35811	35M8G7W
	QPSK			28.70	24.90	0.309	35694	35M7G7W
	16QAM			27.68	23.88	0.244	35644	35M6D7W
50.0	BPSK	3475.0	3525.0	28.70	24.90	0.309	45753	45M8G7W
	QPSK			28.68	24.88	0.308	45772	45M8G7W
	16QAM			27.79	23.99	0.251	45758	45M8D7W
60.0	BPSK	3480.0	3520.0	28.65	24.85	0.305	57881	57M9G7W
	QPSK			28.70	24.90	0.309	57920	57M9G7W
	16QAM			27.93	24.13	0.259	58085	58M1D7W
70.0	BPSK	3485.0	3515.0	28.70	24.90	0.309	64370	64M4G7W
	QPSK			28.50	24.70	0.295	64487	64M5G7W
	16QAM			27.62	23.82	0.241	64372	64M4D7W
80.0	BPSK	3490.0	3510.0	28.68	24.88	0.308	77211	77M2G7W
	QPSK			28.70	24.90	0.309	77195	77M2G7W
	16QAM			27.79	23.99	0.251	76976	77M0D7W
90.0	BPSK	3495.0	3505.0	28.68	24.88	0.308	86848	86M8G7W
	QPSK			28.70	24.90	0.309	86885	86M9G7W
	16QAM			27.70	23.90	0.245	86749	86M7D7W
100.0	BPSK	3500.0	3500.0	28.46	24.66	0.292	96481	96M5G7W
	QPSK			28.70	24.90	0.309	96626	96M6G7W
	16QAM			27.67	23.87	0.244	96224	96M2D7W

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

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) _Ant(9)		-3.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	3705.0	3975.0	28.65	24.85	0.305	8653	8M65G7W
	QPSK			28.70	24.90	0.309	8551	8M55G7W
	16QAM			27.82	24.02	0.252	8585	8M59D7W
15.0	BPSK	3707.5	3972.5	28.69	24.89	0.308	12909	12M9G7W
	QPSK			28.70	24.90	0.309	12865	12M9G7W
	16QAM			28.16	24.36	0.273	12932	12M9D7W
20.0	BPSK	3710.0	3970.0	28.69	24.89	0.308	17827	17M8G7W
	QPSK			28.70	24.90	0.309	17885	17M9G7W
	16QAM			27.84	24.04	0.254	17812	17M8D7W
30.0	BPSK	3715.0	3965.0	28.42	24.62	0.290	26793	26M8G7W
	QPSK			28.70	24.90	0.309	26750	26M8G7W
	16QAM			28.04	24.24	0.265	26775	26M8D7W
40.0	BPSK	3720.0	3960.0	28.70	24.90	0.309	35689	35M7G7W
	QPSK			28.58	24.78	0.301	35651	35M7G7W
	16QAM			27.18	23.38	0.218	35816	35M8D7W
50.0	BPSK	3725.0	3955.0	28.66	24.86	0.306	45629	45M6G7W
	QPSK			28.70	24.90	0.309	45844	45M8G7W
	16QAM			27.89	24.09	0.256	45711	45M7D7W
60.0	BPSK	3730.0	3950.0	28.67	24.87	0.307	57819	57M8G7W
	QPSK			28.70	24.90	0.309	57826	57M8G7W
	16QAM			27.48	23.68	0.233	57601	57M6D7W
70.0	BPSK	3735.0	3945.0	28.56	24.76	0.299	64495	64M5G7W
	QPSK			28.70	24.90	0.309	64413	64M4G7W
	16QAM			27.52	23.72	0.236	64120	64M1D7W
80.0	BPSK	3740.0	3940.0	28.70	24.90	0.309	77132	77M1G7W
	QPSK			28.58	24.78	0.301	77020	77M0G7W
	16QAM			27.50	23.70	0.234	77121	77M1D7W
90.0	BPSK	3745.0	3935.0	28.63	24.83	0.304	86484	86M5G7W
	QPSK			28.70	24.90	0.309	86958	87M0G7W
	16QAM			27.57	23.77	0.238	86934	86M9D7W
100.0	BPSK	3750.0	3930.0	28.70	24.90	0.309	96480	96M5G7W
	QPSK			28.51	24.71	0.296	96442	96M4G7W
	16QAM			27.44	23.64	0.231	96372	96M4D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.02.01.

6.4. MAXIMUM ANTENNA GAIN

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

LTE and 5G NR Bands	Frequency Range (MHz)	ANT 1 Gain (dBi)	ANT 2 Gain (dBi)	ANT 3 Gain (dBi)	ANT 4 Gain (dBi)	ANT 7 Gain (dBi)	ANT 8 Gain (dBi)	ANT 9 Gain (dBi)
LTE Band 5, 5G NR n5	824 – 849	-4.6	-5.6					
LTE Band 7, 5G NR n7	2500 – 2570	-2.8	0.7	-1.6	0.8			
LTE Band 12, 5G NR n12	699 – 716	-4.4	-6.9					
LTE Band 13	777 – 787	-5.7	-6.1					
LTE Band 14, 5G NR n14	788 – 798	-5.7	-6.1					
LTE Band 17	704 – 716	-4.4	-6.9					
LTE Band 25, 5G NR n25	1850 – 1915	-4.0	-3.7	-1.4	-0.6			
LTE Band 26 ,5G NR 26	814 – 849	-4.6	-5.6					
LTE Band 30, 5G NR n30	2305 – 2315	-3.5	-0.9	-4.5	0.3			
LTE Band 41, 5G NR n41	2496 – 2690	-3.0	0.0	-2.7	0.4			
LTE Band 66, 5G NR n66	1710 – 1780	-2.9	-4.2	-2.0	-2.3			
5G NR n70	1695 – 1710	-4.1	-4.0	-2.8	-2.0			
LTE Band 71, 5G NR n71	663 – 698	-4.2	-7.8					
5G NR n77	3450 – 3550				-3.6	-3.9	-1.1	-3.8
5G NR n77	3700 – 3980				-5.2	-4.0	-4.1	-3.8

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 53, Band 66, Band 71, 5G NR n2, 5G NR n5, 5G NR n7, 5G NR n12, 5G NR n14, 5G NR n25, 5G NR n26, 5G NR n30, 5G NR n41, 5G NR n53, 5G NR n66, 5G NR n70, 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 and 5G NR n5 (824-849MHz) is covered by LTE Band 26 and 5G NR n26 of same rule since they have the same output power and supported bandwidths.

For 5G NRs, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

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

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 exhibit 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	X	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	X	Y	Y	X	N/A	N/A	N/A
3300 – 3980 MHz	N/A	N/A	N/A	X	X	X	X

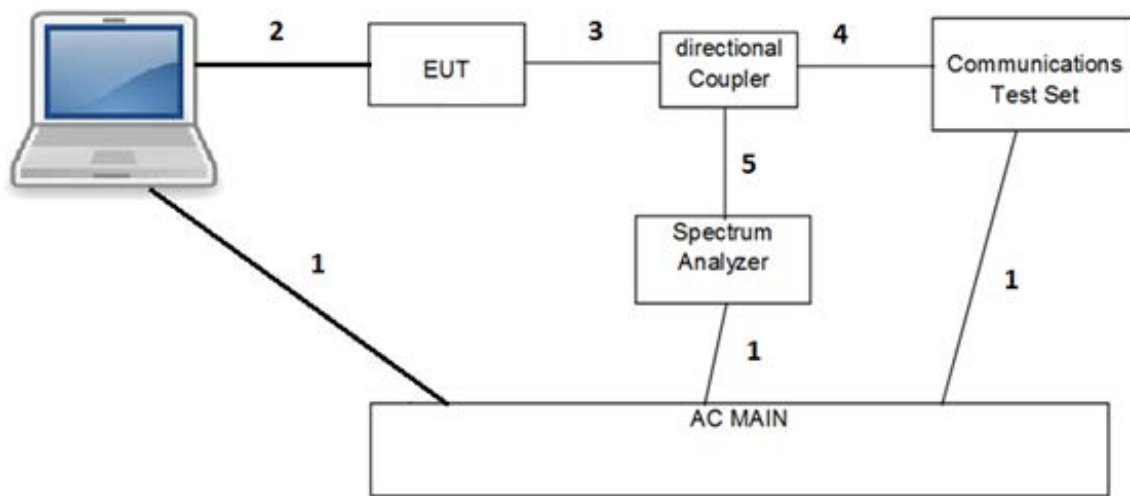
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

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.

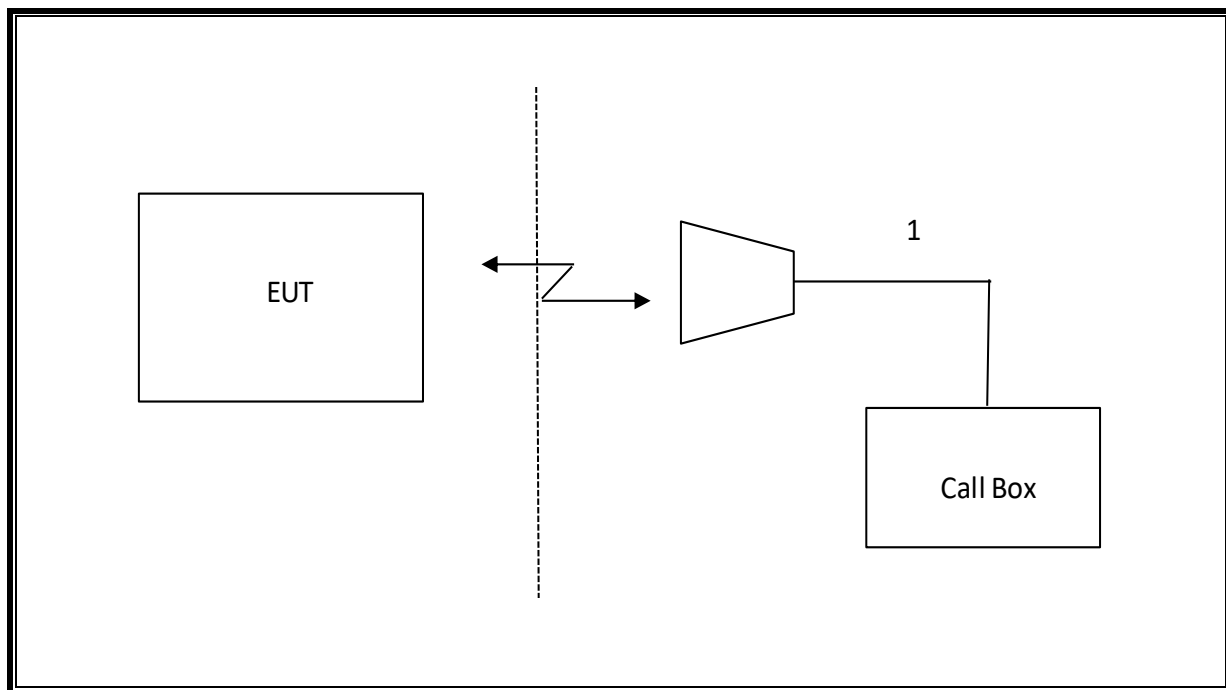
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	MacBook Pro	HRP082673		BCGA1708
AC/DC adapter		Apple	A1718	C4H64450HH3GN8RA6		--
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	80430	2024-08-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	79834	2024-06-30
Antenna, Broadband Hybrid, 30MHz to 3000MHz	SUNAR	JB3	222009	2024-10-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170014	2024-08-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170016	2024-08-31
RF Filter Box, 1-18GHz	UL-FR1	NA	217255	2024-10-31
RF Filter Box, 1-18GHz	UL-FR1	RATS 2	226781	2024-09-30
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	430250	2024-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2025-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85943	2025-02-28
Directional Coupler	KRYTAR	152610	198816	2024-10-31
Directional Coupler	KRYTAR	152610	231664	2025-01-22
Power Meter, P-series single channel	Keysight	N1912A	90719	2025-01-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	81319	2025-01-31
Filter, HPF 1.2GHz	Wainwright Instruments GmbH	WHKX6-948-1.2/15G-40ST	99	2024-10-31
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	231739	2025-01-31
Spectrum Analyzer, PXA, 2Hz to 44GHz	Keysight	N9030B	245120	2025-02-28
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85212	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222793	2025-02-28
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	222797	2025-02-28
Chamber, Environmental	Thermotron Corp.	SM-16C Mini-Max	179936	2024-06-30
Transmitting Antenna, Horn Antenna	TEKBOX Digital Solutions	TBMA4	226709	C.N.R.
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199659	2024-12-31
*Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB	AMPLICAL	AMP18G26.5-60	234683	2024-03-29
DC Power Supply	GWINSTEK	GPS18500	N/A	C.N.R.
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	V2023.11.21.0	
Power Measurement Software	UL	UL RF	V2023.08.14.0	
Radiated test software	UL	UL RF	Ver 9.5 2023-05-01	

NOTES:

- * Testing is completed before equipment expiration date.

8. RF OUTPUT POWER MEASUREMENTS

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 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	

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:

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
15.0	QPSK	1	0	25.66	25.45	25.34	23.70	23.57	23.43	24.79	24.66	24.85	22.59	22.51	22.47
		1	37	25.70	25.51	25.48	23.68	23.65	23.46	24.94	24.67	24.97	22.70	22.46	22.56
		1	74	25.61	25.45	25.42	23.66	23.51	23.37	24.88	24.65	25.00	22.67	22.42	22.47
		36	0	25.04	24.91	24.82	22.72	22.66	22.54	23.93	23.77	23.91	21.70	21.52	21.46
		36	16	25.05	24.83	24.82	22.68	22.59	22.54	23.97	23.75	23.94	21.79	21.54	21.49
		36	35	24.94	24.81	24.75	22.67	22.57	22.44	23.89	23.71	24.03	21.69	21.52	21.56
		75	0	24.70	24.49	24.49	22.66	22.58	22.52	23.88	23.72	23.92	21.66	21.51	21.47
	16QAM	1	0	25.12	24.97	24.85	22.78	22.78	22.60	23.93	23.86	24.00	21.70	21.64	21.55
		1	37	25.14	25.03	24.93	22.86	22.83	22.60	24.10	23.86	24.11	21.88	21.61	21.68
		1	74	25.08	24.88	24.88	22.79	22.67	22.56	24.04	23.80	24.12	21.77	21.53	21.61
		36	0	24.04	23.92	23.81	21.74	21.67	21.53	22.92	22.78	22.91	20.70	20.52	20.50
		36	16	24.05	23.85	23.83	21.70	21.63	21.53	22.96	22.74	22.93	20.78	20.52	20.50
		36	35	23.96	23.80	23.73	21.64	21.59	21.42	22.89	22.72	23.01	20.69	20.50	20.56
		75	0	23.72	23.51	23.49	21.68	21.61	21.54	22.87	22.76	22.91	20.69	20.54	20.49
	64QAM	1	0	24.29	24.15	24.01	21.99	21.90	21.79	23.01	23.03	23.17	20.86	20.90	20.83
		1	37	24.30	24.13	24.10	21.99	21.96	21.81	23.20	22.98	23.21	21.06	20.78	20.91
		1	74	24.22	24.08	24.07	22.01	21.86	21.74	23.25	22.96	23.30	20.97	20.75	20.81
		36	0	23.02	22.88	22.82	20.75	20.68	20.51	21.90	21.77	21.90	19.72	19.52	19.49
		36	16	23.01	22.80	22.82	20.69	20.59	20.54	21.95	21.77	21.94	19.78	19.52	19.51
		36	35	22.94	22.78	22.69	20.66	20.59	20.44	21.87	21.73	22.00	19.71	19.51	19.58
		75	0	22.71	22.49	22.51	20.69	20.62	20.53	21.85	21.75	21.91	19.71	19.54	19.50
	256QAM	1	0	21.07	20.88	20.75	18.83	18.70	18.50	19.89	19.83	19.97	17.69	17.63	17.45
		1	37	21.01	20.88	20.75	18.87	18.68	18.49	20.02	19.77	20.07	17.87	17.55	17.57
		1	74	21.00	20.84	20.72	18.84	18.63	18.47	20.04	19.83	20.16	17.87	17.64	17.63
		36	0	20.99	20.84	20.75	18.74	18.66	18.51	19.87	19.75	19.89	17.71	17.51	17.48
		36	16	20.98	20.75	20.76	18.66	18.60	18.52	19.93	19.73	19.91	17.77	17.54	17.51
		36	35	20.89	20.77	20.70	18.67	18.59	18.44	19.88	19.73	19.99	17.72	17.51	17.59
		75	0	20.66	20.44	20.46	18.68	18.59	18.53	19.83	19.72	19.92	17.71	17.52	17.51

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
20.0	QPSK	1	0	25.69	25.57	25.40	23.67	23.66	23.67	24.82	24.86	24.87	22.54	22.57	22.48
		1	49	25.70	25.59	25.44	23.70	23.68	23.62	24.98	24.72	25.00	22.70	22.48	22.50
		1	99	25.59	25.58	25.48	23.68	23.67	23.28	24.95	24.78	24.99	22.64	22.49	22.49
		50	0	25.06	24.95	24.86	22.76	22.78	22.70	24.00	23.82	23.97	21.72	21.57	21.57
		50	24	24.99	24.88	24.89	22.74	22.72	22.72	23.98	23.84	24.07	21.77	21.57	21.58
		50	49	24.95	24.86	24.78	22.72	22.69	22.61	23.95	23.79	24.08	21.69	21.55	21.54
		100	0	24.70	24.59	24.60	22.70	22.68	22.70	23.89	23.75	24.00	21.67	21.55	21.57
	16QAM	1	0	25.11	25.11	24.90	22.84	22.89	22.72	23.97	24.01	23.98	21.78	21.72	21.63
		1	49	25.45	25.34	25.06	23.09	22.94	23.00	24.47	24.05	24.21	22.11	21.82	21.94
		1	99	25.06	25.00	24.87	22.88	22.85	22.67	24.11	23.91	24.08	21.81	21.64	21.70
		50	0	24.01	23.94	23.85	21.79	21.75	21.71	22.99	22.83	22.95	20.70	20.54	20.56
		50	24	23.97	23.87	23.84	21.73	21.70	21.74	22.95	22.81	23.06	20.77	20.56	20.59
		50	49	23.92	23.82	23.75	21.69	21.70	21.64	22.93	22.78	23.03	20.68	20.56	20.56
		100	0	23.68	23.59	23.58	21.71	21.72	21.74	22.86	22.75	22.95	20.68	20.60	20.58
	64QAM	1	0	24.20	24.01	23.89	21.90	21.84	21.83	23.04	22.95	23.10	20.92	20.70	20.73
		1	49	24.32	24.14	24.05	22.07	22.07	22.04	23.27	23.08	23.29	21.22	20.88	20.92
		1	99	24.08	23.99	23.89	21.82	21.81	21.84	23.11	22.89	23.21	20.98	20.72	20.75
		50	0	23.02	22.91	22.82	20.77	20.78	20.72	21.98	21.80	21.92	19.73	19.56	19.60
		50	24	22.97	22.84	22.86	20.72	20.72	20.72	21.92	21.81	22.03	19.78	19.58	19.59
		50	49	22.90	22.79	22.75	20.69	20.71	20.61	21.92	21.76	22.05	19.71	19.56	19.59
		100	0	22.70	22.56	22.56	20.67	20.71	20.72	21.87	21.76	21.97	19.67	19.58	19.61
	256QAM	1	0	21.12	21.02	20.86	18.88	18.90	18.79	20.04	19.96	20.01	17.70	17.79	17.72
		1	49	21.11	20.99	20.89	18.88	18.96	18.81	20.12	19.86	20.12	17.87	17.62	17.68
		1	99	21.02	20.91	20.88	18.85	18.91	18.79	20.09	19.91	20.23	17.81	17.79	17.80
		50	0	20.98	20.87	20.77	18.76	18.75	18.67	19.90	19.81	19.89	17.69	17.57	17.57
		50	24	20.91	20.80	20.79	18.70	18.70	18.73	19.92	19.80	20.02	17.79	17.59	17.62
		50	49	20.89	20.79	20.73	18.72	18.71	18.62	19.94	19.78	20.04	17.69	17.58	17.62
		100	0	20.65	20.52	20.56	18.70	18.70	18.70	19.81	19.73	19.95	17.68	17.56	17.60

5G NR n7

Test Engineer ID:	12482	Test Date:	2023-11-16
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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
5.0	BPSK	1	0	25.18	25.38	25.32	23.04	23.46	23.39	23.72	24.21	24.37	22.33	22.31	22.31
		1	1	25.40	25.63	25.64	23.26	23.70	23.68	24.27	24.81	24.78	22.64	22.53	22.63
		1	23	25.57	25.69	25.62	23.58	23.63	23.12	24.48	24.76	24.86	22.69	22.51	22.62
		1	24	25.28	25.42	25.18	23.11	23.41	22.69	23.98	24.27	24.35	22.46	22.34	22.44
		12	6	25.49	25.70	25.61	23.67	23.61	23.55	24.41	24.73	24.85	22.58	22.47	22.57
		25	0	25.01	25.20	25.16	23.20	23.10	23.00	23.92	24.16	24.30	22.20	22.02	22.17
	QPSK	1	0	24.26	24.67	24.20	21.07	22.12	21.99	23.22	23.69	23.80	21.63	21.84	21.86
		1	1	25.21	25.62	25.07	22.03	23.01	22.88	24.16	24.80	25.00	22.53	22.54	22.70
		1	23	25.58	25.51	24.81	22.60	23.36	22.33	24.37	24.80	24.87	22.66	22.62	22.57
		1	24	24.57	24.53	23.87	21.66	22.39	21.53	23.44	23.73	23.80	21.94	21.79	21.84
		12	6	25.58	25.68	25.25	22.98	23.58	22.96	24.34	24.71	24.85	22.60	22.47	22.60
		25	0	24.42	24.73	24.10	21.66	22.41	21.67	23.33	23.70	23.81	21.73	21.57	21.59
	16QAM	1	0	23.29	23.76	23.40	19.78	20.97	20.86	22.19	22.71	22.81	20.88	20.57	20.86
		1	1	24.26	24.78	24.22	21.15	22.13	21.93	23.10	23.83	23.54	21.68	21.97	21.92
		1	23	24.65	24.52	23.89	21.85	22.38	21.27	23.39	23.86	23.55	22.34	22.08	21.85
		1	24	23.68	23.54	22.80	20.27	21.61	20.92	22.41	22.69	22.45	20.96	20.98	21.10
		12	6	24.82	24.94	24.56	22.06	22.82	22.24	23.27	23.76	23.79	21.85	21.64	21.80
		25	0	23.62	23.65	23.41	20.76	21.59	20.90	22.35	22.69	22.65	20.66	20.58	20.67
	64QAM	1	0	22.71	23.37	22.66	19.78	20.96	20.74	21.43	22.18	22.26	20.40	20.39	20.51
		1	1	22.85	23.27	22.83	19.88	20.74	20.92	21.59	22.39	22.29	20.29	20.53	20.71
		1	23	23.37	23.13	22.60	20.37	21.24	20.53	21.94	22.20	22.44	20.81	20.50	20.43
		1	24	23.06	23.17	22.36	20.56	21.20	20.25	22.02	22.44	22.40	20.69	20.67	20.41
		12	6	23.31	23.48	23.21	20.29	21.32	20.73	21.85	22.10	22.22	20.43	20.31	20.39
		25	0	23.10	23.20	22.95	20.34	21.18	20.51	21.88	22.16	22.19	20.20	20.11	20.15
	256QAM	1	0	20.81	21.16	20.71	18.45	19.42	19.25	19.76	20.11	20.22	18.18	18.03	18.21
		1	1	20.82	21.01	21.02	18.28	19.31	19.22	19.85	20.10	20.40	18.28	18.21	18.10
		1	23	21.04	21.27	21.04	18.81	19.33	19.03	19.84	20.48	20.31	18.00	18.43	18.05
		1	24	20.96	21.09	20.99	18.83	19.15	18.82	20.00	20.07	20.34	18.30	18.37	18.02
		12	6	21.35	21.38	21.34	18.81	19.37	19.34	19.88	20.11	20.20	18.33	18.19	18.33
		25	0	21.27	21.30	21.31	18.49	19.13	19.08	19.77	20.07	20.16	18.14	18.11	18.16

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
10.0	BPSK	1	0	25.31	25.32	25.23	22.73	23.26	23.17	23.90	24.37	24.49	22.37	22.32	22.44
		1	1	25.50	25.64	25.47	23.08	23.62	23.64	24.45	24.82	24.93	22.57	22.55	22.59
		1	50	25.69	25.70	25.62	23.70	23.64	23.16	24.72	24.94	25.00	22.70	22.54	22.63
		1	51	25.46	25.42	25.07	23.49	23.47	22.65	24.17	24.51	24.55	22.61	22.29	22.43
		25	12	25.56	25.57	25.52	23.67	23.56	23.51	24.53	24.86	24.93	22.52	22.40	22.54
		50	0	25.20	25.18	25.10	23.20	23.15	23.02	24.08	24.41	24.49	22.20	22.01	22.20
	QPSK	1	0	24.19	24.62	24.39	21.11	21.73	21.59	23.31	23.78	23.87	21.73	21.76	21.77
		1	1	25.27	25.61	25.36	22.13	22.72	22.63	24.45	24.83	25.00	22.53	22.53	22.60
		1	50	25.32	25.28	24.64	23.22	23.39	22.31	24.57	24.92	25.00	22.70	22.49	22.59
		1	51	24.41	24.24	23.72	22.32	22.51	21.52	23.68	23.91	23.95	22.06	21.76	21.96
		25	12	25.57	25.62	25.55	23.32	23.67	23.26	24.55	24.93	24.96	22.66	22.40	22.62
		50	0	24.45	24.57	24.18	21.84	22.07	21.77	23.60	23.86	23.97	21.68	21.46	21.65
	16QAM	1	0	23.07	23.56	23.28	20.30	20.31	20.70	22.31	22.87	22.98	20.60	20.60	21.48
		1	1	24.33	24.91	24.43	20.84	21.82	21.59	23.75	23.78	23.90	21.64	22.13	21.68
		1	50	24.13	24.44	23.91	22.18	22.52	21.43	23.90	24.08	24.39	22.23	22.11	22.15
		1	51	23.59	23.39	22.73	21.61	21.42	20.54	22.64	23.00	23.00	21.10	20.98	20.75
		25	12	24.95	24.91	24.81	22.60	22.87	22.49	23.56	23.93	23.96	21.79	21.62	21.86
		50	0	23.65	23.69	23.47	21.09	21.47	21.05	22.56	22.87	23.01	20.69	20.61	20.70
	64QAM	1	0	22.58	23.36	22.81	19.77	20.57	20.47	21.78	22.49	22.38	20.37	20.50	20.52
		1	1	22.69	23.27	22.95	20.00	20.57	20.55	21.85	22.34	22.43	20.65	20.50	20.48
		1	50	23.15	22.66	22.44	21.12	21.51	20.29	22.20	22.47	22.40	20.64	20.50	20.43
		1	51	22.96	22.96	22.41	21.02	21.20	20.21	22.23	22.37	22.50	20.74	20.51	20.46
		25	12	23.28	23.32	23.26	21.02	21.38	21.22	22.09	22.36	22.46	20.44	20.35	20.35
		50	0	23.12	23.18	23.09	20.65	21.07	20.59	22.16	22.41	22.41	20.22	19.98	20.04
	256QAM	1	0	20.94	21.14	20.65	18.18	18.98	18.81	19.99	20.29	20.56	18.27	18.22	18.07
		1	1	20.94	20.87	21.01	18.17	18.99	18.88	20.05	20.52	20.38	18.43	18.38	18.28
		1	50	20.81	21.01	20.98	19.33	19.66	19.30	20.08	20.39	20.42	18.67	17.76	18.10
		1	51	20.82	20.96	20.97	19.45	19.39	19.07	19.98	20.45	20.37	18.30	18.31	18.24
		25	12	21.13	21.28	21.22	19.27	19.39	19.30	20.06	20.29	20.36	18.44	18.22	18.35
		50	0	21.00	21.11	21.13	19.10	19.18	19.05	20.07	20.34	20.42	18.17	18.08	18.09

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
15.0	BPSK	1	0	25.43	25.34	25.41	22.58	22.86	22.65	23.89	24.45	24.47	22.38	22.41	22.41
		1	1	25.61	25.70	25.70	23.03	23.26	22.99	24.40	24.89	24.93	22.62	22.54	22.61
		1	77	25.69	25.66	25.42	23.70	23.65	23.10	24.64	24.78	24.94	22.70	22.56	22.61
		1	78	25.44	25.40	24.92	23.34	23.42	22.65	24.13	24.32	24.46	22.52	22.37	22.35
		36	18	25.47	25.59	25.60	23.62	23.56	23.58	24.51	24.73	24.82	22.63	22.42	22.47
		75	0	25.05	25.13	25.20	23.20	23.20	22.86	24.08	24.32	24.39	22.20	21.93	22.00
	QPSK	1	0	24.02	24.57	24.17	21.07	21.34	20.97	23.48	23.86	23.85	21.44	21.85	21.85
		1	1	25.07	25.49	25.07	22.10	22.32	22.03	24.55	24.86	25.00	22.45	22.55	22.66
		1	77	25.05	25.04	24.57	22.97	23.13	22.28	24.73	24.90	24.93	22.66	22.54	22.58
		1	78	24.10	24.01	23.64	22.05	22.20	21.42	23.78	23.81	23.97	21.96	21.84	21.87
		36	18	25.52	25.63	25.55	23.44	23.49	23.11	24.62	24.85	24.86	22.65	22.44	22.54
		75	0	24.29	24.40	24.07	22.04	22.12	21.40	23.60	23.85	23.94	21.53	21.48	21.56
	16QAM	1	0	23.43	23.50	23.10	19.99	20.15	20.04	22.75	23.00	23.16	20.37	20.84	21.17
		1	1	23.94	24.66	24.21	20.96	21.34	20.90	23.56	23.78	24.13	21.72	21.84	21.97
		1	77	24.30	24.17	23.87	22.22	22.48	21.53	23.51	23.87	23.88	21.80	21.95	21.61
		1	78	23.08	22.98	22.99	20.95	21.03	20.72	22.68	22.86	23.12	20.58	21.00	20.78
		36	18	24.98	25.04	25.04	22.85	22.79	22.45	23.58	23.85	23.87	21.94	21.76	21.74
		75	0	23.50	23.63	23.46	21.23	21.32	20.78	22.55	22.84	22.87	20.62	20.44	20.56
	64QAM	1	0	22.72	23.03	22.82	19.66	20.09	19.65	21.90	22.32	22.23	20.31	20.62	20.39
		1	1	22.58	22.99	22.97	19.87	20.18	19.80	21.93	22.42	22.30	20.30	20.24	20.71
		1	77	22.51	22.70	22.54	21.01	21.14	20.19	22.27	22.25	22.58	20.67	20.36	20.63
		1	78	22.63	22.46	22.42	20.87	21.03	20.30	22.45	22.39	22.39	20.54	20.40	20.63
		36	18	23.36	23.40	23.46	21.24	21.29	20.97	22.13	22.37	22.42	20.48	20.27	20.32
		75	0	22.97	23.18	23.01	20.76	20.87	20.40	22.06	22.34	22.36	20.13	19.86	20.21
	256QAM	1	0	20.74	20.97	21.03	18.30	18.71	18.17	19.92	20.19	20.45	18.09	18.33	18.45
		1	1	20.91	21.10	20.89	18.15	18.51	18.26	19.69	20.30	20.60	18.10	18.10	18.17
		1	77	20.82	21.18	20.87	19.57	19.42	19.18	20.21	20.34	20.27	18.30	18.12	18.09
		1	78	20.93	20.88	20.85	19.17	19.46	18.95	20.15	20.36	20.24	18.29	18.21	18.37
		36	18	21.26	21.33	21.40	19.45	19.42	19.30	20.13	20.35	20.39	18.48	18.19	18.33
		75	0	20.98	21.04	21.12	19.27	19.23	18.91	20.04	20.23	20.35	18.07	17.83	17.97

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
20.0	BPSK	1	0	25.20	25.37	25.26	22.63	22.68	22.52	23.80	24.29	24.34	22.29	22.35	22.35
		1	1	25.46	25.63	25.70	23.12	23.08	22.85	24.46	24.79	25.00	22.53	22.54	22.59
		1	104	25.65	25.63	25.39	23.18	23.68	23.10	24.78	24.80	24.99	22.66	22.48	22.54
		1	105	25.37	25.13	24.87	22.77	23.12	22.62	24.23	24.35	24.43	22.48	22.32	22.30
		50	25	25.51	25.64	25.68	23.70	23.58	23.62	24.60	24.82	24.91	22.64	22.42	22.51
		100	0	25.09	25.20	25.04	23.20	22.93	22.30	24.08	24.32	24.41	22.20	22.10	22.12
	QPSK	1	0	23.97	24.36	23.74	21.05	21.15	21.06	23.40	23.98	23.83	21.47	21.78	21.70
		1	1	25.00	25.36	24.79	22.15	22.15	21.94	24.37	24.85	24.84	22.56	22.45	22.50
		1	104	24.96	24.65	24.64	22.39	22.83	22.34	24.73	24.86	24.96	22.54	22.36	22.54
		1	105	24.03	23.78	23.69	21.48	21.83	21.38	23.68	23.87	23.92	21.66	21.68	21.68
		50	25	25.50	25.64	25.57	23.51	23.65	22.77	24.61	24.85	24.95	22.70	22.47	22.55
		100	0	24.06	24.27	23.94	21.90	21.87	21.24	23.58	23.83	23.90	21.68	21.53	21.65
	16QAM	1	0	22.94	23.54	22.80	19.74	20.07	20.23	22.14	22.97	22.85	20.52	20.85	21.04
		1	1	24.26	23.92	24.01	21.30	21.56	20.82	23.32	23.86	24.03	21.41	21.76	21.92
		1	104	24.11	23.66	23.48	21.77	22.04	21.48	24.09	23.79	23.73	21.64	21.53	21.81
		1	105	23.18	22.60	22.69	20.45	21.22	20.68	22.84	22.38	23.29	20.53	20.63	20.88
		50	25	24.77	24.89	24.79	22.78	22.58	22.00	23.58	23.86	23.88	21.83	21.68	21.80
		100	0	23.34	23.50	23.30	21.18	21.23	20.71	22.53	22.79	22.84	20.61	20.58	20.70
	64QAM	1	0	22.37	22.70	22.28	19.78	19.97	19.70	21.93	22.37	22.33	19.89	20.71	20.40
		1	1	22.66	22.83	22.52	19.91	20.22	19.80	22.03	22.35	22.42	19.93	20.55	20.35
		1	104	22.67	22.34	22.43	20.16	20.70	20.54	22.33	22.48	22.34	20.58	20.47	20.48
		1	105	22.71	22.45	22.46	20.10	20.68	20.35	22.08	22.16	22.28	20.42	20.31	20.54
		50	25	23.21	23.40	23.33	21.41	21.24	20.57	22.11	22.26	22.40	20.40	20.26	20.26
		100	0	22.91	23.00	22.79	20.68	20.80	20.20	22.05	22.32	22.38	20.26	20.10	20.14
	256QAM	1	0	20.93	21.12	20.75	18.17	18.54	18.17	19.99	20.38	20.18	17.99	18.26	18.08
		1	1	20.66	20.93	20.63	18.00	18.25	18.13	19.78	20.19	20.07	18.06	18.39	18.39
		1	104	21.06	20.74	20.84	18.69	19.39	19.05	20.40	20.42	20.30	17.97	17.90	18.23
		1	105	20.87	20.85	20.71	18.61	19.26	19.17	20.20	20.44	20.62	18.25	18.29	18.46
		50	25	21.32	21.32	21.37	19.54	19.45	19.14	19.98	20.27	20.32	18.42	18.20	18.31
		100	0	21.02	21.02	21.11	19.21	19.17	18.68	19.98	20.24	20.30	18.24	18.08	18.18

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
25.0	BPSK	1	0	25.36	25.33	25.38	22.63	22.62	23.16	23.92	24.25	24.27	22.46	22.40	22.38
		1	1	25.66	25.64	25.68	23.01	23.00	23.44	24.41	24.82	24.98	22.57	22.69	22.54
		1	131	25.70	25.65	24.99	22.93	23.27	23.11	24.87	24.89	24.90	22.66	22.70	22.62
		1	132	25.52	25.13	24.50	22.51	22.81	22.57	24.29	24.51	24.44	22.37	22.36	22.45
		64	32	25.55	25.55	25.52	23.70	23.68	23.62	24.59	24.75	24.87	22.67	22.43	22.53
		128	0	25.20	25.20	25.13	23.20	23.09	22.28	24.00	24.17	24.32	22.20	22.20	22.17
	QPSK	1	0	24.12	24.68	23.84	21.06	21.09	21.59	23.37	23.70	23.92	21.36	21.65	21.94
		1	1	25.16	25.69	24.46	22.06	22.04	22.58	24.48	24.92	24.98	22.38	22.63	22.62
		1	131	25.51	24.74	24.20	22.07	22.41	22.32	24.77	24.92	25.00	22.69	22.54	22.59
		1	132	24.66	23.71	23.41	21.07	21.55	21.40	23.66	23.90	23.94	21.75	21.89	21.92
		64	32	25.56	25.59	25.60	23.52	23.56	22.61	24.58	24.75	24.82	22.64	22.56	22.62
		128	0	24.10	24.37	24.13	21.55	21.73	21.10	23.56	23.72	23.81	21.76	21.69	21.70
	16QAM	1	0	23.02	23.84	23.15	20.29	20.34	20.87	22.59	22.81	22.79	20.44	21.09	20.83
		1	1	23.74	24.57	24.29	21.21	21.09	21.61	23.47	23.96	24.04	21.33	21.74	22.14
		1	131	24.83	23.97	23.45	21.32	21.58	21.48	23.48	23.89	23.92	22.30	21.88	21.92
		1	132	23.43	22.92	22.71	20.30	20.76	20.77	22.63	22.63	23.07	20.88	21.05	20.64
		64	32	24.69	24.77	24.61	22.61	22.70	21.70	23.59	23.68	23.84	22.02	21.89	21.84
		128	0	23.57	23.45	23.41	20.81	21.05	20.57	22.57	22.75	22.82	20.78	20.70	20.66
	64QAM	1	0	22.43	23.33	22.73	19.70	19.99	20.45	21.96	22.27	22.53	20.32	20.47	20.69
		1	1	22.90	23.15	22.64	19.71	19.99	20.56	21.98	22.42	22.48	20.14	20.44	20.56
		1	131	23.36	22.26	22.02	19.80	20.13	20.24	22.63	22.27	22.35	20.52	20.48	20.68
		1	132	23.00	22.18	22.22	19.73	20.43	20.19	22.34	22.29	22.46	20.75	20.58	20.51
		64	32	23.28	23.42	23.29	21.01	21.02	20.29	22.03	22.21	22.33	20.56	20.37	20.34
		128	0	22.95	23.08	22.98	20.32	20.62	20.04	22.03	22.23	22.35	20.29	20.12	20.12
	256QAM	1	0	20.65	20.91	20.57	18.18	18.18	18.73	19.81	20.16	20.94	18.19	18.46	18.33
		1	1	20.93	20.92	20.97	17.91	18.50	18.77	20.23	20.12	20.70	18.15	18.34	17.98
		1	131	20.97	20.67	20.64	18.16	18.85	19.27	20.45	20.35	20.58	18.28	18.04	18.35
		1	132	21.12	20.63	20.23	18.26	18.94	19.13	20.27	20.36	20.41	18.37	18.21	18.06
		64	32	21.18	21.37	21.22	19.41	19.39	18.73	19.97	20.20	20.25	18.48	18.32	18.24
		128	0	20.99	21.15	21.12	18.82	19.12	18.71	19.98	20.19	20.28	18.26	18.11	18.11

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
30.0	BPSK	1	0	25.15.0	25.35.0	25.55.0	25.15.0	25.35.0	25.55.0	25.15.0	25.35.0	25.55.0	25.15.0	25.35.0	25.55.0
		1	1	25.23	25.35	25.33	22.64	22.71	23.42	23.87	24.25	24.37	22.35	22.42	22.35
		1	158	25.66	25.50	25.11	23.20	22.94	22.97	24.98	24.89	25.00	22.60	22.56	22.55
		1	159	25.40	25.00	24.65	22.74	22.37	22.54	24.17	24.51	24.43	22.47	22.40	22.42
		80	40	25.54	25.46	25.49	23.65	23.57	22.72	24.62	24.78	24.81	22.66	22.46	22.46
		160	0	25.20	25.14	23.94	22.83	22.70	21.82	24.11	24.36	24.37	22.20	22.04	22.00
	QPSK	1	0	24.18	24.62	24.55	21.03	21.09	22.23	23.47	23.71	23.88	21.44	21.69	21.77
		1	1	25.12	25.56	25.43	21.88	22.13	23.19	24.52	24.85	24.89	22.49	22.65	22.59
		1	158	25.70	24.56	24.25	22.25	22.04	22.19	24.83	24.92	24.91	22.54	22.60	22.60
		1	159	24.69	23.56	23.29	21.37	21.01	21.36	23.79	23.96	23.96	21.81	21.69	21.87
		80	40	25.51	25.47	25.10	23.00	23.38	22.40	24.65	24.83	24.93	22.70	22.51	22.50
		160	0	24.20	24.17	23.99	21.62	21.80	21.48	23.65	23.86	23.93	21.63	21.52	21.50
	16QAM	1	0	22.71	23.62	23.49	20.13	20.34	21.37	22.31	22.65	22.84	20.25	20.72	20.92
		1	1	24.28	24.33	24.63	21.02	21.36	22.35	23.73	23.66	24.26	21.53	21.96	21.64
		1	158	24.42	23.77	23.34	21.51	21.34	21.54	23.96	23.58	24.17	21.93	21.74	21.86
		1	159	23.46	22.82	22.42	20.11	19.90	20.48	22.80	23.32	23.39	20.92	20.82	21.10
		80	40	24.64	24.77	24.58	22.07	22.36	21.46	23.56	23.73	23.88	21.83	21.70	21.74
		160	0	23.45	23.40	23.38	20.95	21.10	20.81	22.75	22.80	22.89	20.55	20.45	20.50
	64QAM	1	0	22.90	23.21	23.27	19.81	19.86	21.08	22.32	22.35	22.43	20.17	20.28	20.70
		1	1	22.82	23.10	23.03	19.74	19.78	21.02	22.00	22.19	22.47	20.02	20.29	20.87
		1	158	23.24	22.31	21.93	20.01	19.81	20.30	22.19	22.37	22.38	20.39	20.43	20.51
		1	159	23.24	22.38	22.09	19.96	20.01	20.46	22.38	22.18	22.38	20.48	20.53	20.13
		80	40	23.25	23.30	23.12	20.83	20.97	20.22	22.10	22.25	22.33	20.45	20.29	20.22
		160	0	22.93	22.92	22.77	20.52	20.63	20.43	22.05	22.29	22.36	20.00	19.92	19.94
	256QAM	1	0	20.72	20.84	20.83	17.96	18.23	19.55	19.79	20.20	20.17	18.30	18.05	18.03
		1	1	20.86	21.04	20.83	17.90	18.41	19.15	19.83	20.18	20.14	18.26	17.98	18.36
		1	158	21.12	20.51	20.43	18.74	18.55	18.97	20.44	20.54	20.63	18.28	18.19	17.95
		1	159	21.10	20.39	20.17	18.53	18.41	18.69	20.40	20.44	20.36	18.16	18.17	18.26
		80	40	21.14	21.22	21.32	19.32	19.32	18.64	20.15	20.26	20.30	18.42	18.23	18.19
		160	0	21.04	21.08	21.17	18.95	19.06	18.93	20.18	20.28	20.35	18.10	17.95	17.93

OUTPUT POWER FOR 5G NR n7 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				503500	507000	510500	503500	507000	510500	503500	507000	510500	503500	507000	510500
35.0	BPSK	1	0	25.37	25.01	24.98	23.34	23.46	23.28	23.88	24.32	23.78	22.15	22.35	22.38
		1	1	25.46	25.28	25.20	23.55	23.65	23.53	24.28	24.08	24.39	22.39	22.54	22.60
		1	186	25.48	25.32	25.30	23.51	23.70	23.60	24.62	25.00	24.43	22.53	22.53	22.61
		1	187	25.30	25.04	25.13	23.38	23.39	23.32	24.23	24.68	24.11	22.33	22.31	22.47
		90	45	25.32	25.12	25.20	23.43	23.45	23.41	24.36	24.22	24.27	22.54	22.41	22.53
		180	0	25.10	25.07	25.09	23.19	23.20	23.16	23.91	23.75	23.82	22.20	22.14	22.17
	QPSK	1	0	24.67	25.70	24.52	22.27	22.79	22.81	23.54	23.17	23.33	21.54	21.78	21.93
		1	1	25.26	25.37	25.26	23.38	23.55	23.55	24.39	24.18	24.45	22.28	22.70	22.61
		1	186	25.44	25.56	25.43	23.62	22.96	23.43	24.95	24.44	24.52	22.54	22.59	22.70
		1	187	24.77	24.73	24.77	23.00	21.95	22.45	23.91	23.37	23.47	21.84	21.86	21.96
		90	45	25.30	25.33	25.25	23.45	23.41	22.87	24.65	24.35	24.31	22.58	22.45	22.59
		180	0	24.59	24.51	24.59	22.67	22.65	22.66	23.72	23.27	23.35	21.75	21.54	21.71
	16QAM	1	0	23.91	23.41	23.57	21.20	21.97	22.05	22.39	22.18	22.56	20.59	20.85	21.31
		1	1	24.96	24.81	24.73	22.16	22.81	22.71	23.93	23.16	23.62	21.68	21.79	21.50
		1	186	25.03	24.73	25.29	22.70	22.13	22.69	24.08	23.61	23.56	21.64	21.87	22.12
		1	187	23.98	23.63	23.93	21.57	21.07	21.38	23.13	22.50	22.09	20.48	20.90	20.83
		90	45	24.84	24.48	24.67	22.72	22.71	22.35	23.78	23.21	23.34	21.90	21.68	21.84
		180	0	23.89	23.59	23.71	21.66	21.62	21.63	22.74	22.31	22.37	20.70	20.60	20.73
	64QAM	1	0	23.44	23.27	23.17	20.59	21.51	21.48	22.24	21.87	21.44	20.17	20.61	20.16
		1	1	23.38	23.05	22.89	20.76	21.31	21.53	22.10	21.49	21.71	20.17	20.40	20.54
		1	186	23.49	23.41	23.18	21.36	20.81	21.26	22.08	21.89	21.66	20.38	20.42	20.62
		1	187	23.32	22.93	23.09	21.47	20.88	21.53	22.35	21.66	21.99	20.54	20.46	20.64
		90	45	23.27	23.08	23.17	21.19	21.20	21.18	22.18	21.75	21.80	20.34	20.25	20.31
		180	0	23.35	22.98	23.18	21.15	21.12	21.13	22.21	21.78	21.78	20.18	20.09	20.12
	256QAM	1	0	21.08	20.80	21.40	19.01	19.34	19.05	19.84	19.49	19.56	18.02	18.27	18.11
		1	1	21.30	20.78	21.53	19.12	19.27	18.93	19.72	19.54	19.51	18.08	18.42	18.21
		1	186	21.23	20.72	21.37	19.47	19.09	19.38	20.25	19.85	19.81	18.18	18.47	18.35
		1	187	21.03	20.78	21.39	19.31	18.97	19.43	20.24	19.72	19.95	18.05	18.17	18.45
		90	45	21.26	21.01	21.17	19.25	19.18	19.18	20.12	19.73	19.73	18.30	18.28	18.23
		180	0	21.29	21.08	21.15	19.19	19.11	19.12	20.19	19.77	19.86	18.09	18.16	18.09

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
40.0	BPSK	1	0	25.44	25.34	25.32	23.48	23.47	23.42	23.98	24.20	24.30	22.32	22.29	22.37
		1	1	25.55	25.44	25.61	23.68	23.48	23.70	24.44	24.71	24.83	22.46	22.53	22.55
		1	214	25.58	25.58	25.68	23.61	23.59	23.54	24.86	24.98	24.98	22.45	22.50	22.70
		1	215	25.48	25.44	25.41	23.34	23.40	23.35	24.33	24.37	24.55	22.36	22.32	22.43
		108	54	25.49	25.58	25.48	23.59	23.51	23.54	24.69	24.74	24.83	22.53	22.44	22.51
		216	0	25.20	25.18	25.16	23.20	23.12	23.16	24.22	24.29	24.39	22.19	22.09	22.20
	QPSK	1	0	24.75	24.86	25.03	22.30	22.88	22.89	23.34	23.88	23.93	21.72	21.82	21.89
		1	1	25.63	25.63	25.70	23.49	23.68	23.62	24.50	24.68	24.74	22.58	22.54	22.55
		1	214	25.61	25.53	25.64	23.63	23.00	23.36	24.80	24.96	25.00	22.47	22.56	22.57
		1	215	24.87	24.97	25.02	22.88	22.12	22.55	23.83	23.81	23.92	21.85	21.75	21.86
		108	54	25.55	25.57	25.60	23.59	23.54	23.56	24.70	24.82	24.87	22.60	22.54	22.49
		216	0	24.69	24.65	24.73	22.75	22.66	22.65	23.70	23.79	23.90	21.73	21.71	21.72
	16QAM	1	0	24.01	23.59	23.92	21.17	22.06	21.67	22.36	22.63	23.24	20.84	21.20	20.97
		1	1	24.78	25.01	24.78	22.04	22.54	22.75	23.32	23.86	23.66	21.93	21.92	21.62
		1	214	24.98	24.99	24.81	22.55	21.84	22.76	24.49	23.91	24.07	21.94	21.62	21.56
		1	215	24.12	23.60	24.29	21.77	21.23	21.84	22.85	22.94	22.92	20.75	20.65	20.88
		108	54	24.83	24.82	24.81	22.91	22.80	22.79	23.66	23.75	23.86	21.84	21.85	21.76
		216	0	23.65	23.69	23.66	21.66	21.64	21.62	22.69	22.77	22.88	20.75	20.78	20.79
	64QAM	1	0	23.15	23.29	23.48	20.56	21.48	21.80	22.20	22.32	22.15	20.40	20.89	20.28
		1	1	23.33	23.15	23.33	20.74	21.70	21.59	21.79	22.24	22.51	20.50	20.53	20.55
		1	214	23.43	23.22	23.24	21.56	20.53	21.22	22.29	22.90	22.58	20.59	20.53	20.39
		1	215	23.27	23.19	23.38	21.59	20.69	21.51	22.20	22.46	22.78	20.43	20.29	20.42
		108	54	23.29	23.33	23.37	21.37	21.29	21.29	22.12	22.20	22.34	20.35	20.36	20.40
		216	0	23.14	23.17	23.23	21.15	21.16	21.08	22.17	22.27	22.35	20.27	20.27	20.27
	256QAM	1	0	21.22	20.88	20.91	18.79	19.71	19.70	20.16	20.34	20.29	18.23	18.22	18.38
		1	1	21.06	21.08	20.93	19.01	19.34	19.28	19.64	20.12	20.53	18.10	18.45	18.62
		1	214	21.17	20.83	21.07	19.38	19.13	19.63	20.48	20.53	20.44	18.20	18.11	18.14
		1	215	21.22	20.86	21.10	19.23	18.89	19.60	20.41	20.72	20.60	18.32	18.40	18.58
		108	54	21.18	21.25	21.26	19.36	19.33	19.25	20.14	20.21	20.26	18.33	18.35	18.41
		216	0	21.09	21.09	21.07	19.12	19.20	19.10	20.16	20.32	20.33	18.21	18.21	18.28

8.2. LTE BAND 12 AND 5G NR n12

LTE BAND 12

Test Engineer ID:	32546	Test Date:	2023-11-17
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OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23017	23095	23173	23017	23095	23173
1.4	QPSK	1	0	699.7	707.5	715.3	699.7	707.5	715.3
		1	0	25.66	25.59	25.56	25.13	25.12	25.00
		1	2	25.69	25.66	25.63	25.16	25.20	25.00
		1	5	25.68	25.64	25.53	25.12	25.13	24.97
		3	0	25.65	25.61	25.56	25.18	25.09	25.00
		3	1	25.68	25.63	25.55	25.16	25.15	24.97
		3	2	25.70	25.67	25.56	25.15	25.18	24.99
	16QAM	6	0	24.70	24.59	24.57	24.13	24.05	23.97
		1	0	25.09	25.14	24.98	24.25	24.30	24.08
		1	2	25.19	25.11	25.02	24.31	24.36	24.14
		1	5	25.07	25.04	25.04	24.29	24.34	24.13
		3	0	25.05	24.98	24.89	24.20	24.18	24.04
		3	1	25.07	25.02	24.87	24.25	24.21	24.03
		3	2	25.03	25.00	24.87	24.17	24.21	24.09
	64QAM	6	0	23.67	23.55	23.65	23.14	23.02	22.88
		1	0	24.23	24.19	24.02	23.32	23.40	23.13
		1	2	24.34	24.23	24.08	23.39	23.48	23.20
		1	5	24.26	24.23	23.92	23.33	23.42	23.11
		3	0	24.06	24.02	24.00	23.27	23.25	23.11
		3	1	24.09	24.01	23.94	23.29	23.28	23.05
		3	2	24.04	24.04	23.94	23.29	23.27	23.08
	256QAM	6	0	22.62	22.64	22.61	22.24	22.09	22.07
		1	0	20.85	20.97	20.96	20.20	20.17	20.14
		1	2	20.99	21.07	20.93	20.28	20.30	20.17
		1	5	20.97	21.02	20.88	20.28	20.24	20.10
		3	0	20.91	20.85	20.85	20.13	20.28	20.23
		3	1	20.93	20.88	20.86	20.16	20.37	20.22
		3	2	20.93	20.93	20.86	20.15	20.33	20.21
		6	0	20.67	20.52	20.54	20.17	20.06	19.96

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23025	23095	23165	23025	23095	23165
3.0	QPSK	1	0	700.5	707.5	714.5	700.5	707.5	714.5
		1	0	25.66	25.59	25.56	25.10	25.07	24.95
		1	7	25.56	25.51	25.50	25.20	25.19	25.00
		1	14	25.69	25.70	25.59	25.06	25.03	24.84
		8	0	25.60	25.54	25.47	24.14	24.07	24.01
		8	4	24.91	24.91	24.79	24.18	24.08	24.04
		8	7	25.02	24.91	24.83	24.17	24.08	24.02
	16QAM	15	0	24.70	24.64	24.59	24.15	24.02	24.00
		1	0	24.97	24.86	24.81	24.27	24.16	24.09
		1	7	25.12	25.11	24.96	24.37	24.29	24.20
		1	14	25.22	25.20	25.05	24.24	24.15	24.00
		8	0	25.07	25.03	24.85	23.16	23.09	23.07
		8	4	23.96	23.93	23.82	23.19	23.10	23.09
		8	7	24.05	23.97	23.87	23.18	23.11	23.10
	64QAM	15	0	23.74	23.65	23.63	23.13	23.07	23.03
		1	0	23.95	23.92	23.77	23.41	23.44	23.33
		1	7	24.18	24.17	24.14	23.46	23.47	23.27
		1	14	24.19	24.25	24.20	23.35	23.30	23.16
		8	0	24.17	24.20	24.12	22.20	22.10	22.06
		8	4	22.94	22.98	22.83	22.22	22.11	22.10
		8	7	23.07	23.01	22.83	22.24	22.10	22.06
	256QAM	15	0	22.76	22.70	22.63	22.16	22.06	22.01
		1	0	23.00	22.89	22.80	20.15	20.15	20.07
		1	7	20.95	20.95	20.78	20.34	20.33	20.19
		1	14	21.14	21.11	20.95	20.22	20.18	19.94
		8	0	20.98	20.98	20.92	20.18	20.10	20.02
		8	4	20.92	20.93	20.83	20.25	20.13	20.04
		8	7	21.07	20.93	20.83	20.20	20.11	20.06
		15	0	20.75	20.63	20.61	20.16	20.04	19.99

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23035 701.5	23095 707.5	23155 713.5	23035 701.5	23095 707.5	23155 713.5
5.0	QPSK	1	0	25.57	25.52	25.54	25.06	25.03	24.98
		1	12	25.70	25.70	25.57	25.20	25.19	25.06
		1	24	25.57	25.53	25.46	25.04	24.99	24.89
		12	0	24.89	24.86	24.86	24.06	24.02	24.00
		12	6	24.98	24.86	24.89	24.18	24.02	24.03
		12	11	24.95	24.91	24.83	24.10	23.99	23.94
	16QAM	25	0	24.70	24.56	24.57	24.11	23.99	23.97
		1	0	25.14	25.03	25.05	24.29	24.20	24.12
		1	12	25.20	25.11	25.07	24.40	24.34	24.12
		1	24	25.06	24.94	24.91	24.28	24.09	24.01
		12	0	23.87	23.87	23.91	23.08	23.11	22.95
		12	6	23.98	23.87	23.87	23.19	23.10	22.98
	64QAM	12	11	23.96	23.92	23.84	23.16	23.09	22.93
		25	0	23.71	23.57	23.58	23.10	23.05	23.01
		1	0	24.15	24.22	24.24	23.41	23.33	23.31
		1	12	24.27	24.23	24.14	23.43	23.43	23.24
		1	24	24.08	24.07	24.07	23.30	23.31	23.18
		12	0	22.88	22.90	22.95	22.06	22.04	21.94
	256QAM	12	6	22.98	22.90	22.95	22.14	22.07	21.97
		12	11	22.94	22.93	22.92	22.13	22.02	21.91
		25	0	22.69	22.57	22.55	22.12	22.00	21.98
		1	0	20.98	20.97	21.02	20.17	20.18	20.12
		1	12	21.09	21.08	21.07	20.30	20.30	20.14
		1	24	21.00	20.97	20.93	20.20	20.13	19.92
		12	0	20.85	20.82	20.82	20.03	20.01	19.99
		12	6	20.94	20.86	20.83	20.15	20.05	20.00
		12	11	20.90	20.88	20.77	20.09	20.00	19.95
		25	0	20.64	20.55	20.52	20.09	20.00	19.99

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23060 704.0	23095 707.5	23130 711.0	23060 704.0	23095 707.5	23130 711.0
10.0	QPSK	1	0	25.70	25.63	25.66	25.18	25.20	25.13
		1	24	25.65	25.62	25.61	25.14	25.17	24.87
		1	49	25.61	25.53	25.53	25.05	24.86	24.88
		25	0	24.91	24.92	24.88	24.12	24.09	24.13
		25	12	25.00	24.91	24.85	24.20	24.08	24.10
		25	24	24.97	24.95	24.88	24.12	24.00	24.03
	16QAM	50	0	24.70	24.62	24.58	24.17	24.06	24.07
		1	0	25.27	25.16	25.17	24.30	24.39	24.33
		1	24	25.15	25.09	25.07	24.29	24.32	24.01
		1	49	25.09	24.96	24.92	24.20	24.00	24.01
		25	0	23.95	23.93	23.89	23.13	23.10	23.12
		25	12	24.05	23.90	23.86	23.20	23.09	23.11
	64QAM	25	24	23.97	23.93	23.91	23.13	23.03	23.05
		50	0	23.74	23.64	23.60	23.16	23.07	23.08
		1	0	24.31	24.32	24.28	23.49	23.45	23.49
		1	24	24.22	24.26	24.24	23.48	23.40	23.37
		1	49	24.18	24.10	24.07	23.38	23.19	23.19
		25	0	22.93	22.94	22.90	22.12	22.11	22.12
	256QAM	25	12	22.98	22.91	22.86	22.22	22.11	22.11
		25	24	22.95	22.94	22.90	22.15	22.01	22.06
		50	0	22.73	22.61	22.61	22.17	22.04	22.09
		1	0	21.01	21.04	20.96	20.18	20.20	20.20
		1	24	20.99	21.12	21.00	20.27	20.29	20.19
		1	49	20.89	20.97	20.86	20.18	20.04	19.88
		25	0	20.90	20.88	20.86	20.13	20.09	20.14
		25	12	20.99	20.89	20.84	20.19	20.08	20.12
		25	24	20.89	20.90	20.86	20.12	20.01	20.04
		50	0	20.68	20.59	20.55	20.16	20.02	20.06

5G NR n12

Test Engineer ID:	12482	Test Date:	2023-11-17
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OUTPUT POWER FOR 5G NR n12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				140300	141500	142700	140300	141500	142700
5.0	BPSK	1	0	25.39	25.33	25.36	24.98	24.88	24.89
		1	1	25.59	25.57	25.57	25.18	25.05	25.07
		1	23	25.55	25.67	25.54	25.05	25.16	24.99
		1	24	25.40	25.38	25.31	24.90	24.97	24.83
		12	6	25.60	25.55	25.58	25.10	25.06	25.07
		25	0	25.11	25.13	25.20	24.70	24.59	24.68
	QPSK	1	0	24.90	24.88	24.57	24.42	24.29	23.95
		1	1	25.67	25.62	25.38	25.20	25.15	24.78
		1	23	25.51	25.70	25.55	25.20	24.95	25.06
		1	24	24.86	25.04	24.78	24.40	24.21	24.46
		12	6	25.70	25.56	25.10	25.12	25.10	25.14
		25	0	24.43	24.71	23.98	24.31	24.16	24.19
	16QAM	1	0	24.16	23.81	23.30	23.48	23.73	23.31
		1	1	24.88	25.18	24.55	24.67	24.36	24.05
		1	23	25.00	24.94	24.75	24.40	24.23	24.72
		1	24	24.09	23.84	23.58	23.27	23.37	23.37
		12	6	24.79	24.82	24.06	24.47	24.44	24.40
		25	0	23.54	23.69	22.88	23.29	23.18	23.24
	64QAM	1	0	23.36	23.29	23.04	22.66	22.66	22.40
		1	1	23.49	23.43	22.87	22.70	22.57	22.36
		1	23	23.42	23.25	23.11	22.74	22.74	22.78
		1	24	23.65	23.22	23.32	22.66	22.63	22.69
		12	6	23.28	23.36	22.51	22.87	22.91	22.76
		25	0	23.08	23.20	22.46	22.82	22.81	22.73
	256QAM	1	0	21.15	21.18	20.87	21.12	21.19	21.17
		1	1	21.06	20.84	21.03	21.16	20.93	20.88
		1	23	20.85	20.87	21.13	21.00	21.16	20.97
		1	24	20.97	21.15	20.75	20.92	21.08	21.02
		12	6	21.39	21.39	21.05	20.91	20.88	20.90
		25	0	21.13	21.17	21.03	20.69	20.68	20.66

OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				140800	141500	142200	140800	141500	142200
10.0	BPSK	1	0	25.45	25.42	25.43	24.97	24.93	24.82
		1	1	25.69	25.67	25.62	25.15	25.13	25.05
		1	50	25.62	25.52	25.59	25.01	25.05	24.94
		1	51	25.37	25.37	25.33	24.88	24.79	24.73
		25	12	25.52	25.50	25.60	25.03	24.93	25.01
		50	0	25.18	25.20	25.18	24.70	24.67	24.54
	QPSK	1	0	24.88	24.80	24.88	24.46	24.46	24.40
		1	1	25.70	25.61	25.58	25.15	25.20	25.15
		1	50	25.53	25.21	25.58	25.05	24.88	25.04
		1	51	24.91	24.25	24.92	24.39	23.93	24.31
		25	12	25.57	25.56	25.32	25.08	25.06	24.86
		50	0	24.68	24.61	24.42	24.17	24.16	24.05
	16QAM	1	0	23.79	23.52	23.69	23.54	23.16	23.47
		1	1	24.89	24.56	25.15	24.73	24.46	24.80
		1	50	25.05	24.24	24.93	24.15	24.02	24.01
		1	51	23.28	23.51	23.76	23.19	22.91	23.40
		25	12	24.82	24.88	24.47	24.36	24.32	23.85
		50	0	23.72	23.63	23.46	23.18	23.16	23.12
	64QAM	1	0	23.42	23.37	23.53	22.73	22.79	22.85
		1	1	23.40	23.18	23.55	22.89	22.70	22.59
		1	50	23.24	22.74	23.15	22.80	22.27	22.64
		1	51	23.44	22.96	23.29	22.63	22.22	22.63
		25	12	23.31	23.37	23.06	22.86	22.81	22.25
		50	0	23.20	23.18	22.97	22.68	22.63	22.58
	256QAM	1	0	21.07	20.92	20.78	21.15	20.98	20.68
		1	1	21.14	20.68	21.03	21.22	20.94	20.90
		1	50	21.19	21.38	20.80	21.14	21.13	21.29
		1	51	21.22	21.17	21.17	21.08	21.11	21.09
		25	12	21.32	21.31	21.31	20.79	20.75	20.77
		50	0	21.16	21.18	21.14	20.61	20.66	20.55

OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				141300	141500	141700	141300	141500	141700
15.0	BPSK			706.5	707.5	708.5	706.5	707.5	708.5
		1	0	25.44	25.37	25.26	24.85	24.83	24.79
		1	1	25.67	25.50	25.60	25.09	25.06	24.99
		1	77	25.57	25.38	25.46	24.99	24.89	24.90
		1	78	25.38	25.26	25.23	24.69	24.61	24.74
		36	18	25.48	25.40	25.39	24.88	24.79	24.76
		75	0	25.17	25.01	25.20	24.70	24.65	24.63
		1	0	24.74	24.57	24.65	24.44	24.29	24.37
		1	1	25.70	25.56	25.60	25.20	25.11	24.99
	QPSK	1	77	25.27	25.42	25.55	25.04	24.92	24.88
		1	78	24.26	24.40	24.72	24.11	24.01	24.13
		36	18	25.53	25.46	25.52	24.95	24.95	24.91
		75	0	24.45	24.28	24.35	24.26	24.22	24.22
		1	0	23.98	23.71	23.53	23.31	23.17	23.48
		1	1	24.76	24.87	24.72	24.63	24.34	24.25
	16QAM	1	77	24.35	24.27	24.68	23.95	24.28	24.44
		1	78	23.11	23.24	23.74	23.19	23.38	23.04
		36	18	24.90	24.75	24.82	24.25	24.20	24.18
		75	0	23.58	23.35	23.40	23.23	23.22	23.26
		1	0	23.32	23.17	23.32	22.57	22.69	22.81
	64QAM	1	1	23.34	23.13	23.20	22.71	22.85	22.64
		1	77	22.74	22.75	23.04	22.38	22.46	22.55
		1	78	22.89	22.98	23.24	22.64	22.48	22.54
		36	18	23.39	23.20	23.32	22.76	22.70	22.75
		75	0	23.08	22.84	22.82	22.73	22.70	22.67
	256QAM	1	0	21.01	21.00	21.06	21.08	21.02	20.95
		1	1	21.12	21.01	20.97	21.28	21.02	21.24
		1	77	20.78	20.79	20.90	21.13	21.09	21.06
		1	78	20.88	20.98	20.91	20.98	20.77	20.77
		36	18	21.21	21.13	21.28	20.61	20.65	20.62
		75	0	21.01	21.14	21.18	20.68	20.67	20.71

8.3. LTE BAND 13

Test Engineer ID:	32546	Test Date:	2023-11-20
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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23205	23230	23255	23205	23230	23255
5.0	QPSK	1	0	25.46	25.52	25.56	25.11	25.08	25.10
		1	12	25.56	25.67	25.70	25.20	25.18	25.17
		1	24	25.43	25.53	25.54	25.05	25.03	24.99
		12	0	24.70	24.83	24.85	24.02	24.03	24.09
		12	6	24.82	24.85	24.85	24.12	24.06	24.14
		12	11	24.77	24.87	24.89	24.09	24.11	24.06
		25	0	24.66	24.70	24.70	24.13	24.03	24.06
		1	0	24.88	25.02	25.01	24.24	24.18	24.17
		1	12	25.02	25.11	25.09	24.35	24.23	24.21
		1	24	24.91	25.05	24.95	24.27	24.13	24.11
	16QAM	12	0	23.77	23.75	23.87	23.02	23.07	23.12
		12	6	23.89	23.80	23.90	23.09	23.10	23.11
		12	11	23.85	23.84	23.95	23.06	23.14	23.10
		25	0	23.77	23.70	23.73	23.10	23.02	23.08
		1	0	24.13	24.09	24.14	23.35	23.40	23.41
		1	12	24.18	24.20	24.15	23.46	23.47	23.38
		1	24	24.14	24.09	24.12	23.36	23.34	23.28
	64QAM	12	0	22.85	22.82	22.90	22.10	22.10	22.18
		12	6	22.94	22.86	22.91	22.19	22.13	22.22
		12	11	22.89	22.91	22.93	22.13	22.17	22.16
		25	0	22.76	22.68	22.69	22.13	22.02	22.06
		1	0	20.93	20.90	20.87	20.16	20.19	20.23
		1	12	21.06	21.06	20.98	20.26	20.28	20.29
		1	24	20.96	20.96	20.86	20.17	20.17	20.16
	256QAM	12	0	20.79	20.78	20.84	20.05	20.05	20.06
		12	6	20.88	20.82	20.85	20.15	20.02	20.08
		12	11	20.86	20.87	20.88	20.12	20.10	20.04
		25	0	20.75	20.70	20.68	20.12	20.00	20.04

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0		25.65			25.20	
		1	24		25.70			25.18	
		1	49		25.62			25.09	
		25	0		24.94			24.16	
		25	12		24.94			24.13	
		25	24		24.97			24.12	
		50	0		24.70			24.20	
		1	0		25.07			24.40	
		1	24		25.19			24.32	
		1	49		25.12			24.22	
	16QAM	25	0		23.96			23.15	
		25	12		23.94			23.13	
		25	24		23.97			23.15	
		50	0		23.92			23.14	
		1	0		24.17			23.51	
		1	24		24.28			23.46	
		1	49		24.17			23.32	
	64QAM	25	0		22.93			22.17	
		25	12		22.94			22.14	
		25	24		22.98			22.15	
		50	0		22.94			22.14	
		1	0		20.98			20.21	
		1	24		21.15			20.36	
		1	49		21.04			20.24	
	256QAM	25	0		20.90			20.12	
		25	12		20.91			20.12	
		25	24		20.94			20.16	
		50	0		20.91			20.13	

8.4. LTE BAND 14 AND 5G NR n14

LTE BAND 14

Test Engineer ID:	32546	Test Date:	2023-11-20
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OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23305 790.5	23330 793.0	23355 795.5	23305 790.5	23330 793.0	23355 795.5
5.0	QPSK	1	0	25.54	25.55	25.57	25.10	25.08	25.09
		1	12	25.67	25.69	25.70	25.20	25.16	25.17
		1	24	25.55	25.60	25.59	25.06	25.05	25.03
		12	0	24.91	24.84	24.84	24.02	24.01	24.04
		12	6	24.92	24.87	24.84	24.11	24.03	24.06
		12	11	24.91	24.88	24.89	24.09	24.08	24.07
	16QAM	25	0	24.70	24.68	24.62	24.08	24.02	24.00
		1	0	25.08	24.92	25.01	24.23	24.17	24.20
		1	12	25.17	25.07	25.16	24.22	24.23	24.28
		1	24	25.07	24.91	25.06	24.17	24.15	24.19
		12	0	23.96	23.84	23.80	23.03	22.89	22.99
		12	6	23.98	23.86	23.82	23.14	22.95	23.02
	64QAM	12	11	23.96	23.90	23.85	23.11	23.00	23.08
		25	0	23.70	23.70	23.64	23.11	23.02	23.01
		1	0	24.12	24.25	24.16	23.37	23.32	23.34
		1	12	24.26	24.24	24.18	23.44	23.46	23.44
		1	24	24.19	24.13	24.18	23.39	23.35	23.37
		12	0	22.95	22.84	22.91	22.03	22.05	22.11
	256QAM	12	6	22.97	22.84	22.96	22.13	22.09	22.12
		12	11	22.93	22.87	23.01	22.12	22.12	22.18
		25	0	22.70	22.67	22.62	22.13	22.02	22.00
		1	0	20.94	20.95	20.93	20.13	20.13	20.14
		1	12	21.05	21.05	21.06	20.27	20.22	20.26
		1	24	20.94	20.99	21.00	20.16	20.21	20.25
		12	0	20.92	20.80	20.81	20.02	20.03	20.00
		12	6	20.93	20.83	20.85	20.13	20.04	20.04
		12	11	20.89	20.86	20.89	20.09	20.08	20.07
		25	0	20.67	20.67	20.58	20.08	20.01	19.99

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	23330	N/A	N/A	23330	N/A
10.0	QPSK	1	0		25.69			25.20	
		1	24		25.70			25.19	
		1	49		25.63			25.14	
		25	0		24.93			24.14	
		25	12		24.92			24.16	
		25	24		24.97			24.19	
		50	0		24.70			24.13	
	16QAM	1	0		25.14			24.34	
		1	24		25.12			24.35	
		1	49		25.13			24.31	
		25	0		23.95			23.17	
		25	12		23.95			23.15	
		25	24		23.99			23.23	
	64QAM	50	0		23.99			23.14	
		1	0		24.30			23.50	
		1	24		24.30			23.48	
		1	49		24.25			23.46	
		25	0		22.94			22.17	
		25	12		22.92			22.16	
	256QAM	25	24		23.00			22.21	
		50	0		22.98			22.13	
		1	0		20.98			20.21	
		1	24		21.09			20.38	
		1	49		21.04			20.22	
		25	0		20.88			20.15	
		25	12		20.89			20.14	
		25	24		20.94			20.17	
		50	0		20.96			20.13	

5G NR n14

Test Engineer ID:	12482	Test Date:	2023-11-17
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OUTPUT POWER FOR 5G NR n14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				158100	158600	159100	158100	158600	159100
5.0	BPSK	1	0	790.5	793.0	795.5	790.5	793.0	795.5
		1	1	23.61	23.66	23.70	23.19	23.20	23.14
		1	1	25.64	25.62	25.63	25.03	25.20	25.04
		1	23	25.55	25.59	25.54	25.03	25.00	24.98
		1	24	23.63	23.70	23.55	23.20	23.02	23.01
		12	6	25.55	25.66	25.60	25.10	25.11	25.03
	QPSK	25	0	25.15	25.20	25.16	24.58	24.67	24.70
		1	0	23.70	23.65	23.70	23.13	23.20	23.18
		1	1	25.57	25.68	25.70	25.09	25.20	25.18
		1	23	25.56	25.66	25.50	25.11	25.07	25.05
		1	24	23.70	23.70	23.58	23.20	23.06	23.11
		12	6	25.67	25.67	25.59	25.09	25.16	25.08
	16QAM	25	0	24.79	24.74	24.71	24.16	24.23	24.20
		1	0	24.13	24.11	23.94	23.57	23.26	23.32
		1	1	24.91	25.02	24.84	24.39	24.73	24.46
		1	23	24.86	24.74	24.73	24.29	24.59	24.39
		1	24	23.58	23.90	23.73	23.19	23.31	23.24
		12	6	24.88	24.91	24.87	24.41	24.34	24.31
	64QAM	25	0	23.77	23.69	23.72	23.23	23.27	23.20
		1	0	23.59	23.52	23.53	22.93	22.88	22.92
		1	1	23.49	23.47	23.47	22.94	22.86	22.75
		1	23	23.57	23.34	23.47	22.90	22.82	22.61
		1	24	23.26	23.30	23.23	22.78	22.70	22.81
		12	6	23.41	23.36	23.33	23.01	22.84	22.76
	256QAM	25	0	23.24	23.29	23.19	22.72	22.73	22.69
		1	0	21.23	21.30	21.37	20.56	20.70	20.34
		1	1	21.35	21.28	21.43	20.68	20.60	20.46
		1	23	21.30	21.08	21.25	20.51	20.40	20.65
		1	24	21.32	21.31	21.24	20.70	20.53	20.41
		12	6	21.40	21.30	21.30	20.93	20.85	20.84
		25	0	21.14	21.16	21.11	20.67	20.69	20.64

OUTPUT POWER FOR 5G NR n14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	158600	N/A	N/A	158600	N/A
10.0	BPSK	1	0	N/A	793.0	N/A	N/A	793.0	N/A
		1	1		23.70			23.20	
		1	1		25.70			25.20	
		1	50		25.58			24.99	
		1	51		23.70			23.20	
		25	12		25.61			25.01	
	QPSK	50	0		25.20			24.70	
		1	0		23.70			23.20	
		1	1		25.63			25.12	
		1	50		25.57			25.02	
		1	51		23.70			23.20	
		25	12		25.59			25.12	
	16QAM	50	0		24.70			24.20	
		1	0		23.77			23.00	
		1	1		24.96			24.10	
		1	50		24.83			24.45	
		1	51		23.86			23.28	
		25	12		24.99			24.41	
	64QAM	50	0		23.70			23.20	
		1	0		23.56			22.79	
		1	1		23.53			23.01	
		1	50		23.51			22.88	
		1	51		23.49			22.83	
		25	12		23.45			22.88	
	256QAM	50	0		23.20			22.70	
		1	0		21.16			20.56	
		1	1		21.31			20.54	
		1	50		21.21			20.61	
		1	51		21.36			20.56	
		25	12		21.34			20.85	
		50	0		21.20			20.70	

8.5. LTE BAND 17

Test Engineer ID:	32546	Test Date:	2023-11-20
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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23755 706.5	23790 710.0	23825 713.5	23755 706.5	23790 710.0	23825 713.5
5.0	QPSK	1	0	25.52	25.51	25.53	25.08	25.10	24.83
		1	12	25.67	25.70	25.49	25.19	25.20	25.05
		1	24	25.56	25.51	25.44	25.10	24.79	25.05
		12	0	24.86	24.84	24.35	24.09	24.06	23.71
		12	6	24.95	24.85	24.43	24.19	24.09	24.15
		12	11	24.89	24.88	24.79	24.14	23.86	24.13
		25	0	24.70	24.60	24.32	24.14	24.05	24.10
		1	0	25.07	24.97	24.87	24.24	24.15	23.99
	16QAM	1	12	25.19	25.13	24.66	24.38	24.04	24.33
		1	24	25.08	24.53	25.00	24.25	23.62	24.22
		12	0	23.88	23.81	23.64	23.10	23.06	23.07
		12	6	23.98	23.85	23.71	23.20	23.07	23.30
		12	11	23.95	23.94	23.93	23.19	22.88	23.28
		25	0	23.71	23.62	23.52	23.17	23.09	23.12
		1	0	24.13	24.17	24.12	23.36	23.47	23.32
		1	12	24.22	24.20	23.85	23.49	23.35	23.41
	64QAM	1	24	24.18	23.89	24.01	23.39	22.84	23.30
		12	0	22.87	22.87	22.70	22.01	21.96	21.78
		12	6	22.95	22.88	22.73	22.15	21.97	22.04
		12	11	22.91	22.91	22.91	22.11	21.83	22.04
		25	0	22.69	22.63	22.47	22.14	22.07	22.13
	256QAM	1	0	20.98	20.89	20.96	20.18	20.21	20.24
		1	12	21.08	21.07	20.94	20.29	20.35	20.28
		1	24	20.98	20.97	20.93	20.23	19.85	20.17
		12	0	20.81	20.81	20.70	20.05	20.07	19.91
		12	6	20.93	20.85	20.68	20.15	20.09	20.13
		12	11	20.89	20.89	20.85	20.13	20.08	20.09
		25	0	20.66	20.59	20.56	20.14	20.07	20.09

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23780 709.0	23790 710.0	23800 711.0	23780 709.0	23790 710.0	23800 711.0
10.0	QPSK	1	0	25.68	25.68	25.65	25.14	25.19	25.20
		1	24	25.70	25.65	25.65	25.17	25.02	25.06
		1	49	25.31	25.54	25.53	24.95	25.07	25.07
		25	0	24.93	24.91	24.93	24.12	24.14	24.14
		25	12	25.02	24.93	24.94	24.22	24.15	23.89
		25	24	24.93	24.64	24.67	23.88	23.99	24.19
		50	0	24.70	24.68	24.69	24.13	24.10	24.14
		1	0	25.17	25.10	25.24	24.34	24.29	24.35
	16QAM	1	24	25.13	25.07	25.00	24.32	24.19	23.98
		1	49	24.46	24.76	25.00	24.03	24.26	24.26
		25	0	23.94	23.94	23.97	23.15	23.17	23.16
		25	12	24.02	23.92	23.95	23.23	23.17	23.10
		25	24	23.96	23.80	23.80	23.02	22.96	23.18
		50	0	23.68	23.66	23.71	23.14	23.12	23.14
		1	0	24.24	24.30	24.27	23.35	23.48	23.55
		1	24	24.30	24.32	24.25	23.43	23.46	23.44
	64QAM	1	49	23.88	24.12	24.08	23.32	23.30	23.37
		25	0	22.93	22.93	22.93	22.14	22.19	22.18
		25	12	23.00	22.92	22.91	22.24	22.17	22.16
		25	24	22.96	22.89	22.81	22.11	22.07	22.19
		50	0	22.67	22.68	22.69	22.12	22.13	22.18
	256QAM	1	0	21.01	20.90	21.00	20.19	20.19	20.27
		1	24	21.08	21.01	21.03	20.37	20.39	20.41
		1	49	20.74	20.73	20.77	19.94	20.06	20.13
		25	0	20.89	20.89	20.89	20.11	20.17	20.17
		25	12	20.98	20.89	20.90	20.20	20.19	20.16
		25	24	20.91	20.90	20.89	20.17	20.09	20.20
		50	0	20.65	20.66	20.66	20.10	20.12	20.16

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
15.0	QPSK	1	0	25.54	25.59	25.62	23.40	23.25	23.29	25.40	25.39	25.43	22.42	22.89	22.85
		1	37	25.54	25.70	25.69	23.36	23.27	23.33	25.42	25.47	25.50	22.41	22.87	22.90
		1	74	25.66	25.63	25.64	23.40	23.17	23.28	25.48	25.36	25.49	22.51	22.86	22.80
		36	0	24.84	24.98	24.95	22.32	22.26	22.26	24.57	24.50	24.55	21.48	21.87	21.87
		36	16	24.92	24.97	25.02	22.41	22.32	22.27	24.54	24.51	24.53	21.48	21.95	21.96
		36	35	24.93	25.07	25.03	22.42	22.29	22.33	24.46	24.55	24.61	21.48	21.93	21.91
		75	0	24.60	24.64	24.70	22.40	22.30	22.26	24.50	24.50	24.48	21.43	21.90	21.90
	16QAM	1	0	24.99	25.09	25.01	22.54	22.41	22.39	24.65	24.67	24.59	21.67	21.99	22.00
		1	37	25.06	25.24	25.06	22.51	22.44	22.48	24.64	24.72	24.70	21.68	22.05	22.11
		1	74	25.08	25.08	25.00	22.52	22.35	22.43	24.65	24.62	24.68	21.74	22.01	21.96
		36	0	23.84	23.97	23.96	21.37	21.28	21.26	23.57	23.51	23.52	20.51	20.87	20.89
		36	16	23.92	23.99	24.03	21.43	21.32	21.27	23.56	23.49	23.53	20.53	20.96	20.97
		36	35	23.92	24.06	24.01	21.41	21.31	21.38	23.49	23.57	23.62	20.49	20.94	20.96
		75	0	23.61	23.64	23.72	21.42	21.32	21.29	23.51	23.53	23.51	20.45	20.93	20.94
	64QAM	1	0	24.14	24.22	24.24	21.72	21.55	21.53	23.79	23.80	23.79	20.70	21.13	21.17
		1	37	24.23	24.33	24.28	21.70	21.61	21.58	23.83	23.85	23.90	20.71	21.19	21.26
		1	74	24.26	24.26	24.20	21.75	21.54	21.57	23.87	23.74	23.88	20.81	21.13	21.15
		36	0	22.85	22.97	22.92	20.36	20.27	20.27	22.53	22.47	22.52	19.52	19.91	19.89
		36	16	22.92	22.97	23.02	20.42	20.33	20.28	22.53	22.49	22.54	19.53	19.99	19.95
		36	35	22.92	23.05	22.99	20.41	20.32	20.35	22.48	22.55	22.63	19.53	19.98	19.95
		75	0	22.62	22.65	22.69	20.40	20.34	20.28	22.52	22.52	22.50	19.49	19.94	19.93
	256QAM	1	0	20.80	20.94	20.98	18.51	18.34	18.37	20.64	20.60	20.54	17.54	17.96	17.92
		1	37	20.86	21.05	21.02	18.56	18.38	18.48	20.63	20.58	20.67	17.61	18.10	17.98
		1	74	20.92	21.14	21.05	18.55	18.44	18.52	20.63	20.62	20.71	17.76	18.11	17.96
		36	0	20.82	20.94	20.88	18.39	18.26	18.30	20.54	20.49	20.50	17.54	17.89	17.87
		36	16	20.88	20.93	20.97	18.43	18.33	18.29	20.53	20.46	20.51	17.55	17.96	17.96
		36	35	20.89	21.03	20.95	18.43	18.32	18.36	20.45	20.56	20.58	17.54	17.96	17.93
		75	0	20.57	20.62	20.67	18.44	18.35	18.28	20.51	20.51	20.47	17.52	17.92	17.92

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
20.0	QPSK	1	0	25.55	25.58	25.60	23.40	23.28	23.28	25.50	25.38	25.36	22.90	22.79	22.78
		1	49	25.51	25.70	25.63	23.35	23.32	23.28	25.49	25.41	25.46	22.88	22.75	22.77
		1	99	25.64	25.70	25.63	23.33	23.24	23.31	25.47	25.32	25.48	22.79	22.75	22.71
		50	0	24.85	24.97	24.98	22.39	22.30	22.30	24.67	24.50	24.54	21.95	21.77	21.77
		50	24	24.94	25.00	25.05	22.46	22.40	22.40	24.70	24.58	24.56	21.94	21.85	21.78
		50	49	24.93	25.05	25.00	22.42	22.38	22.36	24.60	24.52	24.61	21.87	21.82	21.79
		100	0	24.59	24.62	24.70	22.40	22.38	22.35	24.50	24.41	24.39	21.90	21.82	21.74
	16QAM	1	0	25.14	24.96	25.06	22.57	22.54	22.41	24.75	24.66	24.67	22.02	21.91	21.84
		1	49	25.25	25.28	25.33	22.69	22.80	22.62	24.89	24.80	24.82	22.34	22.09	22.06
		1	99	25.09	25.06	25.07	22.49	22.48	22.42	24.72	24.59	24.72	22.05	21.87	21.82
		50	0	23.85	23.96	23.97	21.41	21.32	21.29	23.65	23.50	23.52	20.93	20.76	20.77
		50	24	23.93	24.00	24.04	21.48	21.39	21.39	23.68	23.57	23.52	20.92	20.85	20.76
		50	49	23.92	24.06	23.99	21.43	21.38	21.40	23.57	23.52	23.60	20.88	20.82	20.80
		100	0	23.59	23.63	23.68	21.42	21.36	21.39	23.51	23.40	23.40	20.94	20.82	20.74
	64QAM	1	0	24.00	24.11	24.14	21.65	21.55	21.70	23.69	23.71	23.87	21.11	21.01	20.96
		1	49	24.28	24.22	24.30	21.72	21.69	21.83	23.79	23.81	24.07	21.23	21.15	21.16
		1	99	24.11	24.16	24.11	21.53	21.49	21.70	23.71	23.70	23.90	21.02	20.98	20.90
		50	0	22.84	22.96	22.97	20.39	20.32	20.31	22.60	22.49	22.50	19.91	19.78	19.76
		50	24	22.95	22.98	23.03	20.46	20.39	20.40	22.63	22.59	22.52	19.94	19.85	19.80
		50	49	22.93	23.05	23.00	20.42	20.34	20.38	22.52	22.55	22.58	19.89	19.83	19.81
		100	0	22.57	22.58	22.71	20.45	20.37	20.38	22.46	22.42	22.39	19.89	19.81	19.78
	256QAM	1	0	20.93	21.01	21.11	18.56	18.37	18.39	20.74	20.66	20.57	18.07	17.87	17.95
		1	49	20.99	21.16	21.10	18.57	18.49	18.45	20.66	20.63	20.61	17.97	17.93	17.94
		1	99	21.06	21.16	21.14	18.57	18.49	18.51	20.74	20.69	20.71	17.99	17.96	17.93
		50	0	20.79	20.92	20.92	18.42	18.31	18.30	20.56	20.46	20.47	17.90	17.75	17.75
		50	24	20.89	20.94	21.00	18.48	18.40	18.39	20.58	20.56	20.49	17.91	17.84	17.77
		50	49	20.91	21.00	20.99	18.45	18.39	18.41	20.50	20.52	20.58	17.89	17.83	17.83
		100	0	20.54	20.57	20.65	18.46	18.36	18.38	20.43	20.41	20.36	17.91	17.80	17.76

5G NR n25

Test Engineer ID:	50822	Test Date:	2023-11-17
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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
5.0	BPSK	1	0	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
		1	1	24.94	25.13	25.36	23.04	23.07	23.13	25.04	25.06	25.08	22.53	22.15	22.48
		1	1	25.23	25.33	25.54	23.30	23.28	23.36	25.20	25.43	25.24	22.83	22.30	22.77
		1	23	25.12	25.50	25.67	23.26	23.25	23.32	25.26	25.36	25.21	22.78	22.33	22.73
		1	24	24.86	25.24	25.38	23.03	23.03	23.14	25.06	25.13	25.08	22.53	22.15	22.54
	QPSK	12	6	25.10	25.33	25.62	23.23	23.19	23.40	25.17	25.25	25.31	22.66	22.31	22.74
		25	0	24.69	24.96	25.20	22.80	22.78	22.90	24.84	24.96	25.00	22.31	21.99	22.40
		1	0	24.48	24.72	24.91	22.57	22.56	22.65	24.54	24.63	24.52	22.00	21.58	21.99
		1	1	25.28	25.42	25.59	23.31	23.39	23.39	25.23	25.50	25.24	22.90	22.32	22.74
		1	23	25.12	25.61	25.70	23.27	23.30	23.30	25.21	25.28	25.32	22.68	22.43	22.76
	16QAM	1	24	24.41	24.83	25.03	22.52	22.57	22.67	24.45	24.61	24.60	22.06	21.72	21.99
		12	6	25.14	25.38	25.70	23.18	23.27	23.39	25.18	25.29	25.31	22.71	22.32	22.83
		25	0	24.60	24.49	24.71	22.25	22.34	22.41	24.38	24.50	24.51	21.84	21.52	21.93
		1	0	23.76	23.57	24.07	21.56	21.75	21.94	23.25	23.43	23.93	21.20	20.89	21.11
		1	1	25.10	25.16	25.00	22.57	22.76	22.77	24.86	24.66	24.73	22.35	21.88	21.68
	64QAM	1	23	25.13	24.72	24.65	22.75	22.54	22.81	24.57	24.71	24.61	22.19	21.46	22.10
		1	24	23.73	23.65	23.62	21.32	21.23	21.62	23.24	23.65	23.87	21.27	20.49	21.11
		12	6	24.84	24.63	24.90	22.52	22.42	22.65	24.46	24.54	24.50	21.96	21.65	21.99
		25	0	23.56	23.50	23.64	21.21	21.30	21.44	23.35	23.45	23.50	20.83	20.53	20.90
		1	0	23.30	23.31	23.45	21.24	21.30	21.50	23.21	23.24	23.33	20.70	20.06	20.66
	256QAM	1	1	23.27	23.30	23.65	21.31	21.19	21.23	23.06	23.41	23.13	20.80	20.43	20.92
		1	23	23.39	23.55	23.48	21.24	21.42	21.39	23.11	23.32	23.33	20.92	20.45	20.54
		1	24	23.41	23.42	23.28	21.27	21.28	21.23	22.94	23.12	23.15	20.78	20.33	20.53
		12	6	23.14	23.21	23.29	20.98	20.97	21.11	22.92	23.05	23.09	20.44	20.05	20.53
		25	0	23.00	23.04	23.12	20.78	20.81	20.91	22.82	22.92	22.89	20.37	20.02	20.40
		1	0	20.98	20.98	21.04	18.78	18.77	19.00	20.75	20.86	20.97	18.07	18.18	18.48
		1	1	21.17	21.25	21.16	18.81	18.74	19.32	20.69	20.94	20.99	18.67	17.99	18.51
		1	23	21.14	21.06	21.13	18.88	18.74	19.02	20.60	21.19	21.17	18.40	18.03	18.49
		1	24	21.05	21.00	21.28	18.88	18.70	19.30	20.73	20.93	21.04	18.28	18.09	18.23
		12	6	21.03	21.16	21.20	18.86	18.90	19.02	20.79	21.01	20.91	18.28	18.03	18.46
		25	0	21.02	21.05	21.12	18.71	18.73	18.79	20.76	20.88	20.89	18.26	17.90	18.34

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
10.0	BPSK	1	0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
		1	1	25.47	25.45	25.49	23.06	22.96	23.05	25.06	25.23	25.14	22.61	22.20	22.61
		1	1	25.63	25.68	25.69	23.22	23.23	23.30	25.29	25.40	25.45	22.85	22.47	22.90
		1	50	25.66	25.61	25.67	23.16	23.23	23.30	25.24	25.44	25.46	22.72	22.43	22.88
		1	51	25.40	25.40	25.46	22.97	23.07	23.03	24.99	25.16	25.23	22.59	22.27	22.58
	QPSK	25	12	25.60	25.67	25.66	23.23	23.23	23.22	25.25	25.42	25.43	22.77	22.43	22.80
		50	0	25.15	25.20	25.20	22.90	22.84	22.81	24.85	25.00	25.00	22.34	22.01	22.40
		1	0	24.92	24.94	25.00	22.55	22.54	22.58	24.63	24.78	24.72	22.13	21.75	22.08
		1	1	25.62	25.68	25.70	23.40	23.21	23.24	25.31	25.40	25.42	22.84	22.44	22.76
		1	50	25.66	25.66	25.61	23.23	23.28	23.30	25.26	25.36	25.50	22.71	22.44	22.85
	16QAM	1	51	24.90	24.90	24.90	22.56	22.45	22.50	24.49	24.60	24.68	21.98	21.73	22.18
		25	12	25.64	25.69	25.68	23.27	23.25	23.23	25.31	25.46	25.45	22.83	22.50	22.88
		50	0	24.59	24.64	24.64	22.36	22.33	22.26	24.32	24.50	24.51	21.87	21.53	21.89
		1	0	23.96	24.10	23.93	21.37	21.35	21.71	23.34	23.48	23.89	21.26	20.86	20.94
		1	1	25.05	25.31	24.83	22.54	22.48	22.73	24.80	24.47	24.76	21.91	21.83	22.08
	64QAM	1	50	25.25	24.97	25.10	22.63	22.58	21.96	24.66	24.59	24.43	22.11	21.76	22.33
		1	51	24.23	23.95	24.19	21.57	21.64	21.44	23.51	23.68	23.68	21.21	20.97	21.07
		25	12	24.93	24.97	25.04	22.56	22.50	22.53	24.60	24.71	24.72	22.11	21.70	22.16
		50	0	23.56	23.61	23.74	21.37	21.27	21.26	23.36	23.47	23.44	20.81	20.53	20.90
		1	0	23.63	23.60	23.84	21.15	21.17	21.09	23.27	23.39	23.34	20.51	20.45	20.68
		1	1	23.82	23.54	23.63	21.40	21.22	21.25	23.20	23.35	23.22	20.79	20.40	20.84
		1	50	23.57	23.68	24.09	21.21	21.28	21.22	23.16	23.44	23.20	20.75	20.41	20.65
		1	51	23.56	23.47	23.66	21.14	21.00	21.32	23.31	23.32	23.26	20.70	20.35	20.82
		25	12	23.48	23.39	23.56	21.02	21.03	21.09	23.05	23.19	23.17	20.56	20.23	20.66
		50	0	23.14	23.08	23.32	20.77	20.75	20.86	22.78	22.89	22.90	20.25	19.97	20.35
	256QAM	1	0	21.21	21.27	21.42	19.11	18.64	19.02	20.88	20.98	21.10	18.49	18.09	18.63
		1	1	21.46	20.93	21.39	19.04	18.97	19.23	20.75	20.92	20.99	18.58	17.96	18.70
		1	50	21.33	21.18	21.50	18.90	18.72	18.88	20.82	21.02	21.06	18.49	18.13	18.53
		1	51	21.45	20.95	21.59	18.69	18.85	18.86	20.81	20.92	21.15	18.55	18.20	18.33
		25	12	21.47	21.35	21.59	19.08	18.99	18.91	21.01	21.24	21.14	18.57	18.24	18.60
		50	0	21.21	21.06	21.17	18.79	18.77	18.69	20.76	20.89	20.93	18.33	17.95	18.37

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
15.0	BPSK	1	0	25.47	25.26	25.35	23.11	23.08	23.15	25.20	25.31	25.16	22.64	22.33	22.55
		1	1	25.70	25.48	25.54	23.26	23.35	23.40	25.46	25.46	25.41	22.82	22.53	22.61
		1	77	25.53	25.45	25.51	23.16	23.30	23.37	25.41	25.38	25.45	22.62	22.61	22.90
		1	78	25.38	25.25	25.38	22.96	23.15	23.12	25.11	25.14	25.23	22.41	22.37	22.69
		36	18	25.40	25.27	25.44	23.05	23.08	23.21	25.27	25.32	25.31	22.64	22.32	22.67
	QPSK	75	0	25.14	25.12	25.20	22.72	22.74	22.90	24.92	24.98	25.00	22.39	22.08	22.40
		1	0	24.85	24.81	24.84	22.62	22.57	22.65	24.73	24.69	24.69	22.14	21.82	22.04
		1	1	25.61	25.37	25.59	23.37	23.27	23.30	25.50	25.44	25.48	22.86	22.46	22.59
		1	77	25.48	25.49	25.59	23.21	23.33	23.33	25.41	25.42	25.44	22.57	22.59	22.86
		1	78	24.72	24.79	24.88	22.62	22.60	22.58	24.67	24.76	24.61	21.86	21.90	22.22
	16QAM	36	18	25.43	25.45	25.49	23.33	23.19	23.32	25.32	25.39	25.40	22.70	22.41	22.75
		75	0	24.60	24.68	24.73	22.42	22.28	22.42	24.50	24.51	24.51	21.96	21.64	21.93
		1	0	23.75	23.79	23.69	21.53	21.63	21.70	23.58	23.69	23.62	20.76	21.22	21.07
		1	1	24.59	24.89	24.33	22.73	22.18	22.64	24.64	24.72	24.61	22.52	21.58	21.85
		1	77	24.96	24.48	24.61	22.43	22.93	22.87	24.66	24.68	24.68	21.94	21.55	22.24
	64QAM	1	78	23.64	23.76	23.57	21.67	21.88	21.37	23.63	23.67	23.48	21.06	20.82	21.17
		36	18	24.66	24.79	24.51	22.61	22.43	22.61	24.60	24.63	24.58	22.01	21.70	21.95
		75	0	23.56	23.65	23.42	21.41	21.27	21.38	23.47	23.53	23.48	20.88	20.60	20.92
		1	0	23.52	23.47	23.06	21.27	21.35	21.07	23.45	23.36	23.45	20.53	20.43	20.78
		1	1	23.40	23.36	23.21	21.47	21.00	21.61	23.55	23.55	23.36	20.80	20.66	20.41
	256QAM	1	77	23.35	23.42	23.17	21.51	21.33	21.23	23.17	23.43	23.29	20.50	20.48	20.73
		1	78	23.31	23.50	23.19	21.39	21.30	21.36	23.07	23.53	23.14	20.55	20.75	20.75
		36	18	23.19	23.38	23.28	21.16	21.03	21.18	23.15	23.20	23.21	20.53	20.29	20.58
		75	0	23.08	23.15	23.11	20.91	20.83	20.89	22.92	22.96	22.97	20.40	20.09	20.39
		1	0	20.97	21.06	21.03	18.99	18.93	19.10	21.07	21.09	21.17	18.22	18.03	18.52
		1	1	21.23	21.38	21.07	19.16	19.14	19.16	20.99	21.13	20.96	18.63	17.96	18.38
		1	77	21.13	20.98	21.25	19.24	18.84	19.02	21.09	21.13	21.15	18.48	18.29	18.35
		1	78	21.16	21.31	21.32	18.77	18.92	19.19	21.24	21.12	21.19	18.65	18.25	18.51
		36	18	21.21	21.19	21.37	19.08	18.98	19.15	21.04	21.17	21.13	18.48	18.18	18.60
		75	0	21.00	21.02	21.05	18.83	18.81	18.86	20.88	20.92	20.89	18.34	18.09	18.33

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
20.0	BPSK	1	0	25.41	25.12	25.25	23.23	22.99	23.11	25.12	25.21	25.18	22.66	22.28	22.39
		1	1	25.70	25.40	25.50	23.39	23.24	23.24	25.41	25.44	25.40	22.77	22.51	22.65
		1	104	25.53	25.50	25.66	23.30	23.27	23.31	25.44	25.39	25.44	22.69	22.58	22.81
		1	105	25.28	25.30	25.39	23.12	23.03	23.06	25.16	25.15	25.26	22.42	22.30	22.68
		50	25	25.53	25.37	25.50	23.30	23.16	23.19	25.33	25.41	25.43	22.66	22.46	22.74
	QPSK	100	0	25.20	25.08	25.14	22.90	22.72	19.54	24.91	25.00	24.54	22.35	22.06	22.40
		1	0	24.87	24.74	24.81	22.71	22.53	22.48	24.70	24.73	24.70	22.12	21.78	21.79
		1	1	25.52	25.44	25.53	23.32	23.17	23.24	25.39	25.43	25.40	22.83	22.56	22.58
		1	104	25.43	25.36	25.54	23.40	23.25	23.22	25.44	25.50	25.41	22.66	22.62	22.90
		1	105	24.77	24.81	24.96	22.60	22.58	22.56	24.63	24.71	24.83	21.83	21.85	22.19
	16QAM	50	25	25.62	25.43	25.53	23.34	23.21	23.20	25.33	25.43	25.46	22.72	22.43	22.73
		100	0	24.60	24.57	24.23	22.37	22.24	22.23	24.41	24.51	24.47	21.83	21.62	21.88
		1	0	24.06	23.79	23.57	21.60	21.72	21.53	23.57	24.33	23.56	21.13	20.81	20.57
		1	1	24.85	24.68	25.00	22.70	22.48	22.42	24.67	24.75	24.77	22.22	22.01	21.71
		1	104	25.06	24.92	24.83	22.51	22.37	22.57	24.90	24.68	24.58	21.62	21.87	22.23
	64QAM	1	105	23.98	23.78	23.86	21.10	21.84	21.53	23.61	23.64	23.65	20.80	20.96	21.04
		50	25	24.77	24.71	24.76	22.57	22.46	22.50	24.57	24.69	24.72	22.05	21.70	22.07
		100	0	23.65	23.56	23.58	21.39	21.28	21.30	23.45	23.50	23.50	20.88	20.61	20.90
		1	0	23.44	23.01	23.68	21.21	21.16	21.31	23.33	23.17	23.34	20.88	20.53	20.53
		1	1	23.29	23.38	23.29	21.46	21.28	21.70	23.25	23.46	23.36	21.08	20.38	20.62
	256QAM	1	104	23.46	23.32	23.22	21.28	21.14	21.32	23.23	23.24	23.50	20.73	20.37	20.62
		1	105	23.41	23.35	23.42	21.22	21.10	21.06	23.49	23.10	23.10	20.40	20.49	20.94
		50	25	23.13	23.14	23.20	21.02	20.94	21.06	23.07	23.16	23.11	20.46	20.16	20.49
		100	0	23.01	23.03	23.09	20.85	20.75	20.84	22.92	22.92	22.95	20.36	20.08	20.34
		1	0	21.18	21.01	21.34	19.06	18.99	18.87	21.07	21.15	21.33	18.46	18.11	18.48
		1	1	21.03	21.17	20.99	18.96	18.95	19.06	21.17	21.10	21.13	18.64	18.03	18.28
		1	104	21.10	21.22	21.06	18.97	18.65	18.89	21.14	21.04	21.13	18.04	18.03	18.51
		1	105	20.98	20.95	20.92	18.88	18.82	18.96	21.01	20.91	21.25	18.17	18.17	18.33
		50	25	21.28	21.18	21.21	19.09	18.87	19.07	21.12	21.16	21.15	18.49	18.16	18.43
		100	0	21.06	20.99	21.08	18.79	18.66	18.84	20.88	20.93	20.90	18.34	18.02	18.32

OUTPUT POWER FOR 5G NR n25 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				373500	376500	379500	373500	376500	379500	373500	376500	379500	373500	376500	379500
35.0	BPSK	1	0	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5
		1	1	25.33	25.20	25.31	23.06	22.92	23.06	25.08	25.22	25.16	22.46	22.46	22.31
		1	1	25.64	25.51	25.47	23.33	23.14	23.30	25.38	25.39	25.45	22.67	22.56	22.54
		1	186	25.61	25.62	25.49	23.21	23.27	23.27	25.33	25.49	25.47	22.51	22.71	22.76
		1	187	25.40	25.51	25.38	23.04	23.03	23.14	25.23	25.13	25.26	22.30	22.50	22.70
		90	45	25.63	25.57	25.53	23.15	23.11	23.21	25.37	25.49	25.37	22.51	22.53	22.61
	QPSK	180	0	25.20	25.18	25.09	22.83	22.72	22.90	24.93	25.00	24.90	22.30	22.35	22.40
		1	0	24.62	24.85	24.83	22.59	22.45	22.58	24.76	24.77	24.72	21.90	22.03	21.76
		1	1	25.29	25.54	25.49	23.26	23.16	23.27	25.45	25.42	25.43	22.62	22.66	22.53
		1	186	24.82	25.70	25.69	23.40	23.18	23.33	25.36	25.47	25.40	22.50	22.75	22.90
		1	187	23.62	24.99	24.93	22.56	22.47	22.59	24.71	24.76	24.67	21.95	22.00	22.12
		90	45	25.51	25.59	25.55	23.30	23.10	23.26	25.39	25.50	25.32	22.46	22.50	22.67
	16QAM	180	0	24.60	24.51	24.63	22.38	22.25	22.38	24.40	24.54	24.40	21.77	21.88	21.84
		1	0	23.89	23.86	23.90	21.76	21.32	21.43	23.94	23.37	23.77	20.51	20.93	21.13
		1	1	24.75	24.99	25.14	22.60	22.32	22.40	24.62	24.81	24.50	21.81	22.09	22.10
		1	186	23.53	24.86	24.94	22.27	22.86	22.54	24.71	24.68	24.56	21.68	21.90	22.51
		1	187	22.77	24.14	24.02	21.58	21.15	21.63	23.52	23.84	23.41	20.88	20.87	21.26
		90	45	24.73	24.89	24.73	22.47	22.38	22.60	24.71	24.76	24.56	21.82	21.83	21.97
	64QAM	180	0	23.56	23.68	23.63	21.18	21.21	21.42	23.43	23.48	23.31	20.82	20.76	20.92
		1	0	23.24	23.30	23.20	20.91	21.13	21.13	23.64	23.49	23.12	20.36	20.21	20.23
		1	1	23.53	23.41	23.41	21.10	21.02	21.01	23.56	23.37	23.15	20.43	20.45	20.11
		1	186	23.35	23.72	23.33	20.99	21.36	21.30	23.46	23.31	23.07	20.42	20.53	20.41
		1	187	23.16	23.20	23.20	20.87	21.20	21.42	23.41	23.37	23.37	20.35	20.50	20.75
		90	45	23.26	23.39	23.35	20.84	20.91	21.11	23.21	23.26	23.10	20.33	20.29	20.42
	256QAM	180	0	23.06	23.21	23.15	20.66	20.68	20.86	22.90	22.87	22.82	20.34	20.28	20.47
		1	0	21.61	21.29	21.50	19.17	18.95	19.13	21.09	21.16	21.12	18.20	18.04	18.15
		1	1	21.69	21.75	21.37	18.81	18.98	19.27	21.10	21.51	21.36	18.48	17.94	18.33
		1	186	21.44	21.94	21.74	18.94	19.26	19.08	21.40	21.12	20.99	18.30	18.24	18.60
		1	187	21.54	21.98	21.43	19.00	19.20	18.81	21.16	21.28	21.16	18.22	18.12	18.72
		90	45	21.16	21.39	21.36	18.90	18.91	18.90	21.14	21.12	21.11	18.33	18.29	18.40
		180	0	20.98	21.17	21.07	18.70	18.68	18.74	20.88	20.85	20.76	18.37	18.25	18.40

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
40.0	BPSK	1	0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0
		1	1	25.30	25.13	25.20	23.13	23.09	23.02	25.07	25.08	25.15	22.67	22.36	22.42
		1	1	25.38	25.33	25.34	23.22	23.24	23.29	25.37	25.34	25.42	22.82	22.62	22.46
		1	214	25.39	25.38	25.42	23.28	23.40	23.24	25.44	25.41	25.39	22.50	22.70	22.90
		1	215	25.11	25.20	25.18	23.08	23.06	23.12	25.30	25.19	25.23	22.39	22.61	22.51
		108	54	25.33	25.26	25.40	23.17	23.20	23.19	25.27	25.33	25.39	22.48	22.40	22.61
	QPSK	216	0	22.79	22.43	25.20	22.66	20.48	22.90	22.09	21.79	25.00	20.18	19.90	22.40
		1	0	24.59	24.61	24.93	22.54	22.52	22.48	24.62	24.61	24.60	22.20	21.95	21.70
		1	1	25.42	25.35	25.53	23.25	23.23	23.24	25.32	25.32	25.44	22.78	22.78	22.59
		1	214	25.37	25.44	25.68	23.26	23.34	23.27	25.35	25.50	25.37	22.58	22.77	22.82
		1	215	24.59	24.77	25.05	22.53	22.62	22.68	24.74	24.62	24.41	21.75	21.99	22.12
		108	54	25.37	25.35	25.70	23.22	23.25	23.23	25.31	25.40	25.44	22.50	22.42	22.66
	16QAM	216	0	24.31	24.36	24.98	22.37	22.22	22.39	24.23	24.40	24.62	21.80	21.54	21.93
		1	0	23.69	23.87	23.92	21.49	21.54	21.61	23.63	23.48	23.76	21.14	20.82	20.87
		1	1	24.57	24.83	25.06	22.45	22.50	22.56	24.14	24.41	24.74	22.04	22.11	21.73
		1	214	24.54	24.65	24.99	22.68	22.34	22.34	24.66	24.70	24.85	21.79	22.11	22.14
		1	215	23.70	23.35	24.20	21.67	21.50	21.97	23.83	23.65	23.22	20.39	21.25	21.25
		108	54	24.63	24.60	25.09	22.57	22.52	22.48	24.68	24.67	24.74	21.81	21.71	21.94
	64QAM	216	0	23.61	23.57	23.99	21.37	21.36	21.45	23.51	23.60	23.60	20.86	20.80	20.92
		1	0	22.96	23.13	23.64	21.40	21.29	21.39	23.34	22.91	23.52	20.88	20.51	20.38
		1	1	23.33	23.09	23.48	21.13	20.95	20.71	23.27	23.14	23.53	20.59	20.58	20.42
		1	214	23.16	23.31	23.46	21.12	21.30	20.99	23.33	23.40	23.01	20.19	20.68	21.04
		1	215	23.15	23.21	23.97	21.47	21.08	21.17	23.38	23.30	23.27	20.49	20.68	20.77
		108	54	23.12	23.10	23.55	21.03	21.08	21.04	23.17	23.19	23.18	20.31	20.29	20.43
	256QAM	216	0	23.09	23.08	23.53	20.87	20.93	20.98	23.10	23.07	23.07	20.35	20.27	20.46
		1	0	21.25	21.08	21.31	18.97	19.20	19.04	21.06	21.08	20.95	18.44	18.55	18.18
		1	1	21.27	21.14	21.37	18.95	19.00	18.98	21.00	20.85	21.34	18.58	18.52	18.22
		1	214	21.29	21.28	21.56	19.36	19.25	18.95	21.01	21.19	21.21	18.32	18.35	18.68
		1	215	21.26	21.22	20.73	19.21	18.77	19.16	21.19	21.23	21.12	18.24	18.61	18.63
		108	54	21.05	21.03	21.11	19.00	19.02	19.08	21.10	21.13	21.10	18.32	18.27	18.37
		216	0	21.04	21.05	21.23	18.77	18.82	18.93	20.97	21.00	20.98	18.38	18.23	18.35

8.7. LTE BAND 26 AND 5G NR n26 (FCC Part 90S)

LTE BAND 26

Test Engineer ID:	32546	Test Date:	2023-12-06
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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26697	26740	26783	26697	26740	26783
1.4	QPSK	1	0	814.7	819.0	823.3	814.7	819.0	823.3
		1	2	25.55	25.51	25.64	25.10	25.14	25.17
		1	2	25.70	25.66	25.67	25.18	25.19	25.20
		1	5	25.67	25.63	25.64	25.14	25.14	25.15
		3	0	25.67	25.64	25.67	25.16	25.12	25.15
		3	1	25.68	25.63	25.69	25.14	25.14	25.16
	16QAM	3	2	25.66	25.66	25.68	25.15	25.13	25.16
		6	0	24.70	24.69	24.69	24.14	24.12	24.16
		1	0	24.95	25.04	25.03	24.27	24.24	24.31
		1	2	25.15	25.12	25.07	24.39	24.27	24.40
		1	5	25.08	25.08	25.02	24.24	24.28	24.23
		3	0	25.03	25.02	25.01	24.15	24.26	24.23
	64QAM	3	1	25.03	25.05	25.02	24.20	24.26	24.25
		3	2	25.03	25.03	24.94	24.21	24.26	24.24
		6	0	23.77	23.67	23.66	23.21	23.07	23.26
		1	0	24.02	24.08	24.22	23.32	23.30	23.29
		1	2	24.19	24.22	24.24	23.42	23.33	23.40
		1	5	24.19	24.13	24.17	23.41	23.21	23.35
	256QAM	3	0	24.06	24.06	24.05	23.24	23.26	23.30
		3	1	24.05	24.04	24.09	23.24	23.28	23.25
		3	2	24.07	24.03	24.05	23.21	23.29	23.27
		6	0	22.74	22.72	22.72	22.06	22.22	22.11
		1	0	20.91	21.04	21.03	20.06	20.26	20.29
		1	2	21.09	21.12	21.11	20.21	20.28	20.32
	256QAM	1	5	21.03	21.08	21.09	20.16	20.27	20.25
		3	0	20.98	21.00	21.07	20.17	20.25	20.13
		3	1	20.98	21.02	21.06	20.17	20.25	20.14
		3	2	20.99	21.00	21.05	20.19	20.26	20.12
		6	0	20.64	20.65	20.66	20.15	20.10	20.16

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26705	26740	26775	26705	26740	26775
3.0	QPSK	1	0	815.5	819.0	822.5	815.5	819.0	822.5
		1	7	25.53	25.56	25.57	25.09	25.05	25.00
		1	7	25.67	25.66	25.70	25.20	25.17	25.14
		1	14	25.57	25.59	25.61	25.09	25.04	25.00
		8	0	24.98	24.97	24.97	24.14	24.17	24.13
		8	4	24.99	24.98	25.00	24.17	24.18	24.17
	16QAM	8	7	24.99	24.98	25.01	24.19	24.16	24.13
		15	0	24.70	24.69	24.69	24.15	24.15	24.13
		1	0	25.05	25.04	25.12	24.18	24.24	24.18
		1	7	25.13	25.13	25.11	24.36	24.32	24.33
		1	14	25.03	24.97	25.02	24.32	24.20	24.27
		8	0	24.01	24.02	23.95	23.15	23.20	23.22
	64QAM	8	4	24.05	24.06	24.01	23.20	23.23	23.26
		8	7	24.03	24.05	23.96	23.20	23.24	23.24
		15	0	23.68	23.68	23.67	23.17	23.18	23.17
		1	0	24.06	24.19	24.20	23.46	23.42	23.43
		1	7	24.28	24.30	24.27	23.58	23.39	23.55
		1	14	24.17	24.17	24.17	23.44	23.40	23.42
	256QAM	8	0	23.04	23.02	23.02	22.25	22.19	22.23
		8	4	23.05	23.05	23.05	22.31	22.21	22.24
		8	7	23.05	23.06	23.06	22.29	22.17	22.23
		15	0	22.70	22.70	22.72	22.19	22.16	22.19
		1	0	20.92	20.96	20.92	20.12	20.16	20.16
		1	7	21.07	21.11	21.05	20.27	20.33	20.35
	256QAM	1	14	20.96	20.96	20.95	20.21	20.24	20.26
		8	0	20.97	20.95	20.95	20.18	20.17	20.20
		8	4	20.97	20.99	20.99	20.20	20.22	20.23
		8	7	20.97	21.01	20.99	20.22	20.19	20.24
		15	0	20.71	20.67	20.68	20.15	20.15	20.19

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26715 816.5	26740 819.0	26765 821.5	26715 816.5	26740 819.0	26765 821.5
5.0	QPSK	1	0	25.54	25.53	25.48	25.03	25.08	25.06
		1	12	25.70	25.64	25.66	25.20	25.17	25.20
		1	24	25.54	25.54	25.54	25.04	25.07	25.06
		12	0	24.82	24.82	24.82	24.01	24.02	24.03
		12	6	24.91	24.91	24.92	24.15	24.13	24.15
		12	11	24.88	24.89	24.87	24.09	24.10	24.09
		25	0	24.68	24.70	24.69	24.12	24.09	24.13
	16QAM	1	0	24.96	25.02	25.04	24.26	24.29	24.33
		1	12	25.12	25.18	25.14	24.32	24.33	24.41
		1	24	24.94	24.97	25.05	24.26	24.26	24.34
		12	0	23.92	23.80	23.78	22.91	23.14	23.06
		12	6	24.00	23.92	23.86	23.03	23.25	23.18
		12	11	24.00	23.87	23.82	23.01	23.20	23.13
		25	0	23.68	23.68	23.72	23.10	23.09	23.12
	64QAM	1	0	24.05	24.05	24.09	23.45	23.40	23.41
		1	12	24.13	24.23	24.23	23.47	23.39	23.43
		1	24	24.13	24.17	24.13	23.41	23.40	23.38
		12	0	22.86	22.82	22.84	22.05	21.96	22.04
		12	6	22.96	22.91	22.95	22.15	22.08	22.15
		12	11	22.93	22.86	22.93	22.13	22.04	22.13
		25	0	22.72	22.69	22.69	22.11	22.16	22.12
	256QAM	1	0	20.86	20.90	20.86	20.12	20.11	20.16
		1	12	21.02	21.04	21.09	20.25	20.26	20.28
		1	24	20.97	20.93	20.97	20.12	20.14	20.18
		12	0	20.80	20.80	20.80	20.06	20.07	20.04
		12	6	20.90	20.91	20.93	20.13	20.16	20.15
		12	11	20.87	20.85	20.86	20.10	20.13	20.11
		25	0	20.69	20.66	20.68	20.13	20.13	20.12

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A N/A	26740 819.0	N/A N/A	N/A N/A	26740 819.0	N/A N/A
10.0	QPSK	1	0		25.70			25.20	
		1	24		25.69			25.16	
		1	49		25.64			25.11	
		25	0		24.95			24.11	
		25	12		25.05			24.18	
		25	24		25.02			24.15	
		50	0		24.70			24.20	
	16QAM	1	0		25.17			24.34	
		1	24		25.19			24.35	
		1	49		25.10			24.26	
		25	0		23.97			23.11	
		25	12		24.05			23.21	
		25	24		24.02			23.20	
		50	0		24.01			23.19	
	64QAM	1	0		24.31			23.50	
		1	24		24.21			23.51	
		1	49		24.24			23.42	
		25	0		22.94			22.13	
		25	12		23.04			22.21	
		25	24		22.99			22.19	
		50	0		23.02			22.19	
	256QAM	1	0		20.99			20.19	
		1	24		21.10			20.28	
		1	49		21.03			20.19	
		25	0		20.92			20.10	
		25	12		20.99			20.19	
		25	24		21.00			20.14	
		50	0		20.99			20.17	

5G NR n26

Test Engineer ID:	12482	Test Date:	2023-11-29
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OUTPUT POWER FOR 5G NR n26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				163300	163800	164300	163300	163800	164300
5.0	BPSK	1	0	816.5	819.0	821.5	816.5	819.0	821.5
		1	1	24.20	25.33	25.23	23.70	24.84	24.84
		1	23	24.20	25.50	25.42	23.70	25.09	25.04
		1	24	24.01	25.37	25.47	23.64	25.03	25.05
		1	24	24.20	25.26	25.32	23.70	24.84	24.80
		12	6	25.49	25.44	25.53	25.20	25.08	25.03
	QPSK	25	0	25.16	25.20	25.14	24.70	24.64	24.63
		1	0	24.20	24.74	24.68	23.70	24.38	24.36
		1	1	24.20	25.70	25.44	23.70	25.11	25.12
		1	23	23.90	25.49	25.37	23.64	25.03	25.12
		1	24	24.20	24.76	24.76	23.70	24.39	24.25
		12	6	25.46	25.43	25.50	25.09	25.02	24.98
	16QAM	25	0	24.67	24.65	24.69	24.26	24.22	24.18
		1	0	23.72	23.92	23.90	23.35	23.27	23.27
		1	1	24.77	24.82	24.74	24.31	24.45	24.31
		1	23	24.72	25.12	24.68	24.24	24.09	24.37
		1	24	24.24	24.01	23.68	23.51	23.37	23.14
		12	6	24.74	24.85	24.75	24.38	24.42	24.27
	64QAM	25	0	23.70	23.75	23.67	23.23	23.19	23.11
		1	0	23.38	23.64	23.18	23.16	23.04	22.68
		1	1	23.32	23.28	23.33	22.80	22.79	23.03
		1	23	23.39	23.24	23.21	22.86	22.69	22.88
		1	24	23.34	23.35	23.35	22.88	22.74	22.74
		12	6	23.18	23.28	23.21	22.69	22.75	22.72
	256QAM	25	0	23.26	23.21	23.17	22.75	22.74	22.69
		1	0	20.90	21.00	21.11	20.61	20.80	20.42
		1	1	21.07	20.97	20.94	20.69	20.91	20.60
		1	23	21.27	21.28	21.13	20.69	20.59	20.64
		1	24	21.09	21.49	20.99	20.54	20.64	20.64
		12	6	21.30	21.28	21.22	20.77	20.74	20.78
		25	0	21.26	21.21	21.16	20.63	20.65	20.56

OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	163800	N/A	N/A	163800	N/A
10.0	BPSK	1	0	N/A	819.0	N/A	N/A	819.0	N/A
		1	1		25.37			24.86	
		1	50		25.70			25.15	
		1	51		25.66			25.13	
		1	51		25.47			24.87	
		25	12		25.55			25.01	
	QPSK	50	0		25.20			24.70	
		1	0		24.98			24.48	
		1	1		25.59			25.20	
		1	50		25.64			25.00	
		1	51		24.89			24.30	
		25	12		25.69			25.04	
	16QAM	50	0		24.90			24.35	
		1	0		23.46			23.24	
		1	1		24.68			24.53	
		1	50		24.92			24.37	
		1	51		24.22			23.00	
		25	12		25.02			24.39	
	64QAM	50	0		23.88			23.37	
		1	0		23.46			23.17	
		1	1		23.63			22.90	
		1	50		23.39			22.76	
		1	51		23.51			22.77	
		25	12		23.50			22.86	
	256QAM	50	0		23.52			22.86	
		1	0		20.99			20.78	
		1	1		21.41			20.70	
		1	50		21.34			20.71	
		1	51		21.25			20.66	
		25	12		21.39			20.82	
		50	0		21.45			20.85	

8.8. LTE BAND 26 AND 5G NR n26 (FCC Part 22)

LTE BAND 26

Test Engineer ID:	32546	Test Date:	2023-12-06
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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26797	26915	27033	26797	26915	27033
1.4	QPSK	1	0	824.7	836.5	848.3	824.7	836.5	848.3
		1	2	25.56	25.57	25.55	25.08	25.09	25.05
		1	5	25.69	25.69	25.58	25.20	25.19	25.06
		3	0	25.63	25.65	25.53	25.17	25.18	25.01
		3	1	25.68	25.57	25.57	25.18	25.09	25.06
		3	2	25.68	25.68	25.59	25.18	25.18	25.06
	16QAM	3	2	25.70	25.67	25.59	25.17	25.17	25.08
		6	0	24.70	24.62	24.62	24.16	24.15	24.03
		1	0	24.96	24.99	24.97	24.27	24.27	24.08
		1	2	25.08	25.11	24.97	24.29	24.31	24.18
		1	5	25.12	25.06	24.92	24.29	24.30	24.10
		3	0	25.02	24.95	24.93	24.17	24.14	24.13
	64QAM	3	1	25.02	25.02	25.00	24.25	24.24	24.12
		3	2	25.10	25.04	24.96	24.20	24.17	24.15
		6	0	23.70	23.70	23.57	23.22	23.15	23.08
		1	0	24.19	23.99	24.13	23.42	23.26	23.01
		1	2	24.25	24.11	24.19	23.55	23.40	23.37
		1	5	24.22	24.04	24.16	23.46	23.32	23.31
	256QAM	3	0	24.02	24.00	24.00	23.29	23.22	23.17
		3	1	24.06	24.08	23.99	23.28	23.34	23.17
		3	2	24.04	24.10	24.04	23.29	23.30	23.14
		6	0	22.63	22.64	22.58	22.16	22.20	22.21
		1	0	20.93	21.01	21.12	20.25	20.17	20.12
		1	2	21.06	21.13	21.13	20.40	20.28	20.17
	256QAM	1	5	21.04	21.04	21.12	20.30	20.27	20.14
		3	0	20.92	20.92	20.94	20.19	20.17	20.09
		3	1	20.93	21.01	20.94	20.19	20.29	20.12
		3	2	20.94	20.98	20.95	20.19	20.29	20.22
		6	0	20.68	20.67	20.56	20.14	20.20	20.14

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26805	26915	27025	26805	26915	27025
3.0	QPSK	1	0	825.5	836.5	847.5	825.5	836.5	847.5
		1	7	25.59	25.45	25.48	25.09	25.08	25.02
		1	14	25.70	25.63	25.58	25.20	25.19	25.08
		8	0	25.58	25.54	25.49	25.10	25.09	24.96
		8	4	24.99	24.84	24.89	24.18	24.09	24.06
		8	7	25.00	24.90	24.92	24.21	24.11	24.10
	16QAM	8	7	24.99	24.96	24.89	24.21	24.19	24.08
		15	0	24.70	24.58	24.61	24.14	24.06	24.06
		1	0	25.07	25.02	24.97	24.30	24.29	24.17
		1	7	25.14	25.15	25.05	24.42	24.34	24.22
		1	14	24.99	25.04	24.95	24.26	24.25	24.19
		8	0	24.04	23.92	23.99	23.25	23.14	23.08
	64QAM	8	4	24.08	23.97	24.03	23.30	23.16	23.12
		8	7	24.08	24.04	23.98	23.27	23.24	23.10
		15	0	23.69	23.60	23.63	23.22	23.08	23.08
		1	0	24.28	24.25	24.11	23.44	23.42	23.35
		1	7	24.30	24.26	24.13	23.56	23.43	23.43
		1	14	24.26	24.17	24.05	23.39	23.33	23.30
	256QAM	8	0	23.04	22.89	22.84	22.23	22.23	22.18
		8	4	23.07	22.93	22.87	22.26	22.24	22.22
		8	7	23.06	23.00	22.85	22.27	22.32	22.22
		15	0	22.70	22.63	22.59	22.23	22.11	22.10
		1	0	21.01	20.88	20.98	20.13	20.18	20.15
		1	7	21.13	21.06	21.00	20.30	20.39	20.26
	256QAM	1	14	21.07	20.99	20.95	20.16	20.22	20.10
		8	0	21.02	20.85	20.79	20.19	20.11	20.11
		8	4	21.01	20.89	20.88	20.23	20.17	20.15
		8	7	20.97	20.98	20.89	20.23	20.25	20.14
		15	0	20.67	20.55	20.50	20.15	20.10	20.10

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26815	26915	27015	26815	26915	27015
5.0	QPSK	1	0	25.57	25.57	25.44	25.02	25.05	25.02
		1	12	25.70	25.67	25.54	25.16	25.20	25.07
		1	24	25.58	25.55	25.39	25.01	25.05	24.94
		12	0	24.86	24.80	24.69	24.01	24.01	23.94
		12	6	24.97	24.84	24.79	24.12	24.04	24.05
		12	11	24.96	24.91	24.76	24.09	24.09	23.99
	16QAM	25	0	24.70	24.58	24.46	24.08	23.98	23.92
		1	0	25.14	25.01	24.91	24.22	24.23	24.13
		1	12	25.21	25.12	25.08	24.33	24.31	24.24
		1	24	25.10	24.95	24.91	24.22	24.21	24.08
		12	0	23.86	23.78	23.75	23.08	23.09	23.01
		12	6	23.98	23.83	23.84	23.18	23.09	23.11
	64QAM	12	11	23.94	23.87	23.84	23.12	23.15	23.06
		25	0	23.73	23.63	23.46	23.12	23.02	22.94
		1	0	24.15	24.06	24.03	23.34	23.39	23.26
		1	12	24.25	24.24	24.06	23.44	23.40	23.35
		1	24	24.17	24.11	23.98	23.31	23.37	23.23
		12	0	22.90	22.90	22.74	21.96	22.14	21.95
	256QAM	12	6	23.00	22.93	22.87	22.08	22.15	22.05
		12	11	22.98	23.01	22.83	22.05	22.21	22.01
		25	0	22.73	22.62	22.46	22.10	22.03	21.97
		1	0	20.96	20.90	20.82	20.14	20.16	20.07
		1	12	21.11	21.04	20.93	20.26	20.28	20.22
		1	24	21.07	20.94	20.93	20.15	20.22	20.14
256QAM	12	0	20.84	20.81	20.66	20.01	20.03	19.98	
	12	6	20.94	20.83	20.76	20.13	20.05	20.06	
	12	11	20.91	20.88	20.76	20.09	20.08	20.03	
	25	0	20.68	20.57	20.44	20.11	20.01	19.96	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26840 829.0	26915 836.5	26990 844.0	26840 829.0	26915 836.5	26990 844.0
10.0	QPSK	1	0	25.70	25.61	25.57	25.18	25.20	25.16
		1	24	25.66	25.62	25.53	25.20	25.19	25.11
		1	49	25.56	25.58	25.52	25.14	25.13	25.04
		25	0	24.90	24.87	24.82	24.14	24.15	24.05
		25	12	25.03	24.87	24.84	24.24	24.16	24.15
		25	24	24.99	24.93	24.89	24.17	24.19	24.09
	16QAM	50	0	24.70	24.56	24.53	24.19	24.13	24.05
		1	0	25.15	25.11	25.05	24.33	24.35	24.33
		1	24	25.12	25.04	25.02	24.36	24.37	24.26
		1	49	25.09	25.08	24.98	24.30	24.28	24.24
		25	0	23.95	23.89	23.84	23.13	23.15	23.09
		25	12	24.02	23.90	23.84	23.22	23.15	23.18
	64QAM	25	24	23.98	23.95	23.89	23.19	23.20	23.12
		50	0	23.68	23.55	23.49	23.20	23.12	23.05
		1	0	24.23	24.20	24.07	23.49	23.59	23.37
		1	24	24.21	24.22	24.09	23.49	23.46	23.40
		1	49	24.19	24.17	24.04	23.42	23.36	23.35
		25	0	22.90	22.86	22.81	22.15	22.14	22.10
	256QAM	25	12	23.01	22.87	22.82	22.22	22.15	22.18
		25	24	22.98	22.91	22.87	22.22	22.17	22.17
		50	0	22.66	22.57	22.48	22.20	22.13	22.09
		1	0	20.96	20.91	20.87	20.21	20.21	20.14
		1	24	21.09	21.06	20.90	20.32	20.30	20.25
		1	49	21.03	21.02	20.87	20.21	20.19	20.16
25		0	20.91	20.87	20.78	20.15	20.13	20.08	
25		12	20.98	20.86	20.79	20.24	20.15	20.18	
25	24	20.95	20.90	20.85	20.18	20.19	20.13		
50	0	20.66	20.54	20.48	20.19	20.13	20.05		

5G NR n26

Test Engineer ID:	50822	Test Date:	2023-12-04
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OUTPUT POWER FOR 5G NR n26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				165300	167300	169300	165300	167300	169300
5.0	BPSK	1	0	826.5	836.5	846.5	826.5	836.5	846.5
		1	1	24.20	25.20	25.25	23.70	24.83	24.86
		1	1	24.13	25.49	25.48	23.63	25.10	25.02
		1	23	24.20	25.45	25.45	23.70	25.06	25.03
		1	24	24.20	25.18	25.20	23.70	24.89	24.82
		12	6	25.34	25.45	25.48	25.04	25.10	25.06
	QPSK	25	0	25.00	25.14	25.20	24.66	24.70	24.70
		1	0	24.20	24.87	24.72	23.70	24.38	24.38
		1	1	24.20	25.70	25.43	23.70	25.01	25.10
		1	23	24.05	25.63	25.40	23.67	25.06	25.02
		1	24	24.20	24.77	24.72	23.70	24.42	24.34
		12	6	25.39	25.44	25.47	25.08	25.20	25.04
	16QAM	25	0	24.56	24.65	24.58	24.21	24.28	24.21
		1	0	23.89	24.07	23.74	23.55	23.08	23.68
		1	1	24.69	24.91	24.67	24.14	24.52	24.35
		1	23	24.66	24.54	24.51	24.01	24.44	24.22
		1	24	23.83	23.35	23.60	23.29	23.51	23.21
		12	6	24.70	24.78	24.72	24.30	24.39	24.35
	64QAM	25	0	23.58	23.72	23.63	23.15	23.28	23.22
		1	0	23.45	23.56	23.33	22.82	22.80	23.21
		1	1	23.45	23.73	23.16	22.88	22.83	22.86
		1	23	23.52	23.73	23.50	22.84	22.74	22.97
		1	24	23.32	23.44	23.34	22.84	22.89	22.91
		12	6	23.22	23.17	23.23	22.90	22.82	22.75
	256QAM	25	0	23.06	23.18	23.06	22.71	22.77	22.66
		1	0	20.98	21.20	20.90	20.59	20.15	20.66
		1	1	21.24	21.22	20.81	20.63	20.87	20.75
		1	23	21.20	21.15	20.82	20.69	20.60	20.51
		1	24	20.95	21.15	21.14	20.63	20.48	20.32
		12	6	21.20	21.26	21.06	20.90	20.88	20.73
		25	0	21.17	21.12	21.04	20.68	20.69	20.65

OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				165800	167300	168800	165800	167300	168800
10.0	BPSK	829.0	836.5	844.0	829.0	836.5	844.0	829.0	836.5
		1	0	25.38	25.41	25.39	24.85	24.80	24.87
		1	1	25.61	25.70	25.53	25.06	25.08	25.04
		1	50	25.47	25.46	25.44	25.09	25.04	25.09
		1	51	25.29	25.39	25.22	24.82	24.78	24.84
		25	12	25.37	25.48	25.57	25.09	25.02	25.03
	QPSK	50	0	25.14	25.20	25.17	24.70	24.67	24.59
		1	0	24.91	24.98	24.86	24.39	24.25	24.36
		1	1	25.57	25.53	25.69	25.20	25.03	25.05
		1	50	25.55	25.31	25.43	25.09	25.15	25.07
		1	51	24.87	24.69	24.76	24.42	24.36	24.34
		25	12	25.48	25.52	25.56	25.11	25.10	25.08
	16QAM	50	0	24.76	24.71	24.75	24.18	24.18	24.05
		1	0	24.02	23.86	23.97	23.54	23.61	23.25
		1	1	24.83	24.82	24.74	24.52	24.45	24.28
		1	50	24.90	24.56	24.94	24.22	24.12	24.28
		1	51	23.95	24.01	23.91	23.42	23.41	23.30
		25	12	24.78	24.76	24.78	24.47	24.39	24.41
	64QAM	50	0	23.83	23.66	23.71	23.17	23.21	23.14
		1	0	23.52	23.53	23.22	22.76	22.83	22.96
		1	1	23.72	23.51	23.54	23.07	22.76	22.67
		1	50	23.66	23.22	23.47	22.98	22.94	22.55
		1	51	23.81	23.39	23.54	22.71	22.52	22.79
		25	12	23.28	23.26	23.30	22.86	22.89	22.88
	256QAM	50	0	23.22	23.21	23.16	22.68	22.66	22.63
		1	0	21.17	21.20	21.20	20.85	20.37	20.56
		1	1	21.26	21.34	21.16	20.35	20.63	20.51
		1	50	21.27	21.28	21.24	20.68	20.49	20.44
		1	51	21.23	21.12	21.17	20.37	20.35	20.42
		25	12	21.27	21.22	21.12	20.82	20.88	20.87
		50	0	21.12	21.16	21.12	20.67	20.68	20.66

OUTPUT POWER FOR 5G NR n26 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				163300	167300	168300	163300	167300	168300
15.0	BPSK	1	0	831.5	836.5	841.5	831.5	836.5	841.5
		1	0	25.31	25.48	25.30	24.94	24.95	24.83
		1	1	25.50	25.60	25.53	25.20	25.14	25.04
		1	77	25.53	25.59	25.53	25.08	25.05	24.93
		1	78	25.25	25.44	25.16	24.83	24.85	24.79
		36	18	25.54	25.55	25.44	24.99	25.02	25.00
	QPSK	75	0	25.09	25.20	25.13	24.70	24.65	24.68
		1	0	24.86	25.04	24.76	24.51	24.57	24.38
		1	1	25.59	25.70	25.52	25.19	25.16	25.07
		1	77	25.48	25.60	25.48	25.06	25.00	25.14
		1	78	24.74	24.94	24.85	24.48	24.38	24.31
		36	18	25.45	25.61	25.54	24.99	25.07	25.03
	16QAM	75	0	24.60	24.78	24.65	24.17	24.28	24.21
		1	0	23.70	23.88	23.47	23.45	23.47	23.63
		1	1	25.06	24.67	24.46	24.57	24.39	24.31
		1	77	24.76	24.80	24.77	24.32	24.62	23.89
		1	78	23.58	23.83	23.81	23.43	23.43	23.36
		36	18	24.79	24.96	24.74	24.41	24.45	24.43
	64QAM	75	0	23.64	23.67	23.62	23.06	23.27	23.22
		1	0	23.36	23.46	23.45	23.15	22.80	22.66
		1	1	23.38	23.40	23.49	22.71	23.11	22.96
		1	77	23.32	23.64	23.65	22.81	23.03	22.75
		1	78	23.40	23.30	23.45	22.68	23.15	22.96
		36	18	23.27	23.31	23.25	22.79	22.82	22.84
	256QAM	75	0	23.09	23.11	23.06	22.66	22.71	22.72
		1	0	21.31	21.32	21.03	20.45	20.51	20.41
		1	1	21.38	21.22	21.17	20.53	20.59	20.48
		1	77	21.26	21.32	21.21	20.69	20.67	20.75
		1	78	21.25	21.25	21.07	20.67	20.54	20.51
		36	18	21.23	21.26	21.33	20.77	20.79	20.78
		75	0	21.13	21.09	21.14	20.66	20.71	20.72

OUTPUT POWER FOR 5G NR n26 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				162800	167300	167800	162800	167300	167800
20.0	BPSK	1	0	834.0	836.5	839.0	834.0	836.5	839.0
		1	0	23.30	25.28	21.61	24.91	24.81	24.73
		1	1	23.93	25.53	22.00	25.18	25.03	25.04
		1	104	25.70	25.46	25.62	25.08	25.07	25.00
		1	105	25.41	25.19	25.45	24.95	24.93	24.80
		50	25	25.45	25.27	25.53	25.12	25.00	25.05
	QPSK	100	0	25.20	24.89	22.73	24.70	24.66	24.57
		1	0	21.79	24.68	15.69	24.43	24.36	24.43
		1	1	22.93	25.49	21.08	25.16	25.14	25.18
		1	104	25.62	25.38	25.56	25.20	25.17	25.03
		1	105	25.09	24.59	24.97	24.35	24.51	24.36
		50	25	25.49	25.36	25.60	25.14	25.19	25.09
	16QAM	100	0	24.28	24.43	22.16	24.18	24.22	24.17
		1	0	20.83	23.94	11.95	23.46	23.31	23.43
		1	1	22.15	24.84	19.99	24.53	24.73	24.55
		1	104	24.76	24.52	24.99	24.40	24.20	24.48
		1	105	23.97	23.59	24.00	23.56	23.54	23.33
		50	25	24.86	24.63	23.69	24.40	24.43	24.43
	64QAM	100	0	23.29	23.42	21.15	23.20	23.21	23.22
		1	0	20.63	23.51	6.72	22.69	22.79	22.82
		1	1	20.70	23.47	10.44	22.90	22.71	22.91
		1	104	23.71	23.25	23.70	22.80	22.93	22.78
		1	105	23.74	23.20	23.48	23.00	22.99	22.64
		50	25	23.32	23.12	22.48	22.96	22.96	22.82
	256QAM	100	0	22.64	22.85	20.64	22.71	22.69	22.63
		1	0	18.75	21.11	0.12	20.53	20.48	20.71
		1	1	18.97	21.12	2.02	20.94	20.82	20.66
		1	104	21.29	21.21	21.30	20.73	20.39	20.54
		1	105	21.32	21.12	21.15	20.65	20.74	20.45
		50	25	21.25	21.13	21.06	20.92	20.90	20.84
		100	0	21.11	20.86	18.74	20.61	20.68	20.64

8.9. LTE BAND 30 AND 5G NR n30

Test Engineer ID:	32546	Test Date:	2023-11-30
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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
5.0	QPSK	1	0	25.52	25.61	25.62	23.57	23.54	23.57	24.96	24.89	24.84	22.58	22.63	22.62
		1	12	25.64	25.69	25.70	23.64	23.70	23.69	25.00	24.87	24.85	22.69	22.70	22.66
		1	24	25.53	25.55	25.58	23.57	23.52	23.53	24.86	24.78	24.71	22.57	22.57	22.52
		12	0	24.80	24.89	24.93	22.49	22.49	22.53	23.95	23.91	23.88	21.64	21.56	21.62
		12	6	24.85	24.92	24.98	22.62	22.52	22.59	23.90	23.92	23.87	21.66	21.58	21.64
		12	11	24.82	24.88	24.84	22.58	22.48	22.54	23.85	23.77	23.72	21.65	21.57	21.55
	16QAM	25	0	24.61	24.62	24.70	22.58	22.48	22.55	23.85	23.85	23.85	21.64	21.55	21.61
		1	0	25.00	25.05	25.03	22.61	22.60	22.69	24.14	24.05	23.94	21.76	21.71	21.77
		1	12	25.13	25.12	25.09	22.69	22.67	22.72	24.13	24.00	23.95	21.82	21.85	21.74
		1	24	24.91	25.12	25.00	22.59	22.55	22.59	24.03	23.90	23.84	21.78	21.64	21.69
		12	0	23.82	23.91	24.00	21.55	21.52	21.57	22.96	22.88	22.82	20.64	20.64	20.68
		12	6	23.87	23.93	23.99	21.67	21.55	21.59	22.97	22.93	22.94	20.69	20.63	20.69
	64QAM	12	11	23.83	23.92	23.87	21.64	21.49	21.58	22.85	22.79	22.77	20.66	20.60	20.54
		25	0	23.58	23.63	23.67	21.59	21.51	21.57	22.89	22.87	22.84	20.65	20.58	20.62
		1	0	24.20	24.13	24.19	21.76	21.83	21.82	23.28	23.23	23.12	20.92	21.02	20.89
		1	12	24.20	24.26	24.27	21.93	21.85	21.85	23.30	23.22	23.20	21.02	21.02	21.08
		1	24	24.21	24.12	24.13	21.80	21.81	21.68	23.17	23.13	23.03	20.98	20.93	20.96
		12	0	22.87	22.96	22.96	20.58	20.45	20.66	21.86	21.83	21.77	19.66	19.58	19.64
	256QAM	12	6	22.76	22.98	23.00	20.69	20.51	20.70	21.98	21.93	21.89	19.75	19.62	19.87
		12	11	22.73	22.96	22.87	20.70	20.47	20.63	21.94	21.85	21.76	19.62	19.63	19.62
		25	0	22.58	22.63	22.72	20.58	20.52	20.59	21.89	21.89	21.86	19.65	19.59	19.66
		1	0	20.81	20.93	21.09	18.56	18.63	18.61	20.01	19.95	20.04	17.58	17.67	17.76
		1	12	20.99	21.07	21.08	18.74	18.79	18.69	20.10	19.92	19.97	17.80	17.75	17.76
		1	24	20.86	20.87	20.93	18.67	18.61	18.48	19.85	19.77	19.87	17.71	17.60	17.61
		12	0	20.81	20.80	20.87	18.49	18.52	18.58	19.95	19.89	19.85	17.66	17.60	17.67
		12	6	20.79	20.85	20.90	18.59	18.54	18.61	19.90	19.92	19.86	17.70	17.63	17.69
		12	11	20.78	20.82	20.79	18.58	18.50	18.58	19.85	19.79	19.76	17.67	17.63	17.60
		25	0	20.55	20.60	20.63	18.56	18.50	18.56	19.84	19.85	19.82	17.65	17.60	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
10.0	QPSK	1	0		25.66			23.66			25.00			22.63	
		1	24		25.70			23.70			24.93			22.70	
		1	49		25.62			23.59			24.78			22.54	
		25	0		24.96			22.62			23.98			21.61	
		25	12		24.99			22.63			23.98			21.62	
		25	24		24.96			22.58			23.88			21.60	
	16QAM	50	0		24.70			22.58			23.84			21.58	
		1	0		25.11			22.82			24.24			21.82	
		1	24		25.05			22.84			24.17			21.84	
		1	49		25.07			22.76			24.09			21.71	
		25	0		23.97			21.61			23.13			20.62	
		25	12		23.97			21.62			23.11			20.67	
	64QAM	25	24		23.95			21.61			22.96			20.62	
		50	0		23.94			21.62			23.05			20.65	
		1	0		24.25			21.88			23.28			20.83	
		1	24		24.28			21.88			23.23			20.91	
		1	49		24.18			21.82			23.08			20.74	
		25	0		22.95			20.65			22.14			19.65	
	256QAM	25	12		22.97			20.67			22.12			19.70	
		25	24		22.95			20.63			21.98			19.65	
		50	0		22.92			20.63			22.08			19.66	
		1	0		21.00			18.73			20.17			17.73	
		1	24		21.11			18.84			20.19			17.92	
		1	49		20.97			18.67			19.94			17.66	
		25	0		20.91			18.62			20.12			17.65	
		25	12		20.93			18.66			20.11			17.68	
		25	24		20.89			18.63			19.97			17.64	
		50	0		20.90			18.59			20.08			17.64	

5G NR n30

Test Engineer ID:	12482	Test Date:	2023-11-30
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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		
				461500	462000	462500	461500	462000	462500	461500	462000	462500	461500	462000	462500
5.0	BPSK	1	0	20.39	20.35	20.29	18.49	18.37	18.38	19.67	19.59	19.75	17.22	17.47	17.44
		1	1	20.60	20.63	20.64	18.63	18.66	18.56	19.92	19.87	19.88	17.55	17.62	17.61
		1	23	20.70	20.64	20.64	18.59	18.70	18.63	19.93	19.95	19.88	17.60	17.66	17.51
		1	24	20.40	20.31	20.37	18.47	18.46	18.50	19.81	19.64	19.68	17.39	17.30	17.32
		12	6	20.65	20.64	20.65	18.69	18.69	18.60	19.95	19.89	20.00	17.53	17.70	17.61
		25	0	25.20	25.17	25.20	23.17	23.20	23.08	24.47	24.50	24.40	22.11	22.20	22.07
	QPSK	1	0	19.82	19.74	19.84	17.59	17.62	17.54	19.16	19.10	19.10	16.73	16.85	16.98
		1	1	20.55	20.56	20.60	18.54	18.55	18.47	19.89	19.95	19.91	17.50	17.51	17.66
		1	23	20.58	20.52	20.70	18.37	18.42	18.30	19.89	19.81	19.89	17.57	17.64	17.50
		1	24	19.73	19.73	19.76	17.58	17.40	17.31	19.10	19.24	19.22	16.91	16.76	16.81
		12	6	20.55	20.59	20.58	18.67	18.63	18.70	19.92	20.00	19.85	17.50	17.70	17.57
		25	0	24.74	24.71	24.73	22.57	22.59	22.61	24.04	24.03	24.07	21.59	21.74	21.66
	16QAM	1	0	19.75	19.45	19.35	17.41	17.28	17.36	18.77	18.88	18.58	16.67	16.52	16.80
		1	1	20.42	20.50	20.38	18.50	18.10	18.59	19.81	19.77	19.91	17.46	17.43	17.55
		1	23	20.50	20.37	20.70	18.16	18.24	18.10	19.40	19.94	20.00	17.66	17.55	17.18
		1	24	19.45	19.22	19.50	17.38	17.16	17.09	18.72	18.98	18.69	16.51	15.93	16.64
		12	6	20.66	20.63	20.69	18.70	18.64	18.55	19.80	19.77	19.73	17.59	17.70	17.62
		25	0	23.77	23.70	23.75	21.73	21.66	21.70	23.01	22.97	23.09	20.55	20.67	20.59
	64QAM	1	0	20.61	20.57	20.68	18.42	18.45	18.22	19.87	19.86	19.58	17.32	17.43	17.69
		1	1	20.63	20.49	20.37	18.18	18.38	18.35	19.81	19.57	19.80	17.39	17.34	17.38
		1	23	20.70	20.60	20.64	18.32	18.26	18.13	19.90	19.85	19.75	17.40	17.16	17.45
		1	24	20.54	20.67	20.36	18.30	18.42	18.32	19.95	20.00	19.92	17.29	17.38	17.60
		12	6	20.48	20.44	20.47	18.70	18.67	18.68	19.86	19.89	19.92	17.59	17.65	17.70
		25	0	23.18	23.17	23.24	21.19	21.18	21.21	22.42	22.49	22.54	20.08	20.17	20.20
	256QAM	1	0	20.70	20.40	20.45	18.45	18.17	18.57	19.48	19.40	19.80	17.24	17.35	17.63
		1	1	20.55	20.52	20.36	18.40	18.33	18.33	19.70	19.35	19.23	17.18	17.49	17.70
		1	23	20.46	20.30	20.35	18.14	18.25	18.31	19.43	19.58	19.33	17.38	17.55	17.30
		1	24	20.60	20.50	20.30	18.58	18.48	18.07	19.40	19.80	19.52	17.23	17.30	17.50
		12	6	20.62	20.59	20.60	18.70	18.62	18.66	19.87	19.99	20.00	17.41	17.45	17.43
		25	0	21.05	21.09	20.99	19.16	19.10	19.10	20.39	20.34	20.46	18.11	18.15	18.20

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	462000	N/A	N/A	462000	N/A	N/A	462000	N/A	N/A	462000	N/A
10.0	BPSK	1	0	N/A	20.46	N/A	N/A	23.10.0	N/A	N/A	19.78	N/A	N/A	17.47	N/A
		1	1		20.70			18.43			20.00			17.65	
		1	50		20.65			18.70			19.99			17.70	
		1	51		20.42			18.54			19.76			17.29	
		25	12		20.60			18.57			19.89			17.63	
		50	0		25.20			23.20			24.50			22.20	
	QPSK	1	0		19.83			17.50			19.25			16.94	
		1	1		20.70			18.56			19.91			17.64	
		1	50		20.57			18.32			20.00			17.59	
		1	51		19.70			17.42			19.28			16.95	
		25	12		20.52			18.70			19.84			17.70	
		50	0		24.23			22.14			23.48			21.23	
	16QAM	1	0		19.46			17.50			18.94			16.85	
		1	1		20.53			18.28			19.89			17.23	
		1	50		20.65			18.27			20.00			17.67	
		1	51		19.45			17.37			18.74			16.38	
		25	12		20.70			18.70			19.79			17.70	
		50	0		23.19			21.28			22.49			20.31	
	64QAM	1	0		20.63			18.25			19.58			17.70	
		1	1		20.70			18.47			20.00			17.63	
		1	50		20.61			18.20			19.88			17.36	
		1	51		20.66			18.34			19.98			17.51	
		25	12		20.62			18.70			19.88			17.61	
		50	0		22.66			20.78			22.03			19.63	
	256QAM	1	0		20.42			18.25			19.90			17.54	
		1	1		20.31			18.33			19.73			17.65	
		1	50		20.38			18.54			20.00			17.70	
		1	51		20.23			18.50			19.69			17.43	
		25	12		20.70			18.70			19.97			17.64	
		50	0		20.62			18.72			19.72			17.76	

8.10. LTE BAND 41 AND 5G NR n41

LTE BAND 41

Test Engineer ID:	32546	Test Date:	2023-12-06
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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
5.0	QPSK	1	0	24.61	28.05	27.55	24.99	28.54	27.62	22.80	27.94	26.90	26.09	27.51	26.11
		1	12	27.70	28.09	27.70	27.70	28.51	27.70	26.13	28.00	27.00	26.27	27.70	26.30
		1	24	27.60	28.03	27.59	27.64	28.37	27.61	26.20	27.91	26.91	26.30	27.55	26.08
		12	0	23.71	28.15	26.61	24.00	28.51	27.09	21.97	27.31	25.99	25.48	27.65	25.08
		12	6	23.72	28.09	26.65	24.02	28.55	27.16	22.14	27.35	26.02	25.59	27.27	25.11
		12	11	26.71	28.09	26.64	27.01	28.50	27.16	25.19	27.23	25.97	25.50	27.14	25.07
		25	0	23.60	28.11	26.61	24.01	28.50	27.08	22.09	27.23	25.99	25.43	27.18	24.87
		1	0	23.81	28.61	26.76	24.11	28.70	27.15	22.04	27.40	26.12	25.77	26.74	25.50
	16QAM	1	12	26.86	28.70	26.84	27.19	28.69	27.19	25.32	27.46	26.18	25.95	26.99	25.57
		1	24	26.82	28.65	26.79	27.11	28.54	27.15	25.42	27.39	26.06	25.97	27.03	25.43
		12	0	22.74	27.19	25.70	23.18	27.59	26.06	21.04	26.29	24.97	24.52	26.25	24.05
		12	6	22.79	27.22	25.70	23.01	27.81	26.12	21.23	26.39	24.99	24.58	26.23	24.07
		12	11	25.82	27.16	25.74	26.09	27.67	26.01	24.31	26.33	24.96	24.56	26.13	24.09
		25	0	22.63	27.12	25.61	23.02	27.65	26.11	21.11	26.24	25.01	24.51	26.38	24.03
		1	0	22.94	27.32	25.83	23.20	27.83	26.27	21.09	26.57	25.19	24.63	26.49	24.59
		1	12	25.99	27.52	25.94	26.34	27.89	26.43	24.48	26.66	25.32	24.78	27.07	24.67
	64QAM	1	24	25.95	27.35	25.91	26.33	27.74	26.27	24.48	26.50	25.18	24.79	26.96	24.50
		12	0	21.74	26.21	24.67	22.02	26.97	25.20	19.99	25.33	23.98	23.50	25.50	23.09
		12	6	21.74	26.21	24.71	22.11	26.91	25.16	20.26	25.41	24.08	23.56	25.48	23.16
		12	11	24.81	26.09	24.70	25.09	26.70	25.15	23.23	25.30	24.07	23.49	25.18	23.10
		25	0	21.63	26.12	24.62	22.03	26.82	25.06	20.11	25.25	23.96	23.46	24.96	23.07
		1	0	19.87	24.23	22.70	20.12	25.13	23.29	18.02	23.50	22.15	21.46	23.58	22.04
		1	12	22.93	24.32	22.72	23.23	24.98	23.29	21.32	23.49	22.24	21.71	24.13	22.06
		1	24	22.83	24.13	22.67	23.21	24.82	23.23	21.44	23.49	22.08	21.71	24.04	22.00
	256QAM	12	0	19.72	24.20	22.63	20.01	24.92	23.13	18.00	23.36	22.05	21.47	23.52	21.15
		12	6	19.73	24.19	22.66	20.08	24.92	23.19	18.19	23.42	22.09	21.57	23.56	21.10
		12	11	22.73	24.16	22.63	23.00	24.87	23.16	21.27	23.32	22.09	21.49	23.38	21.12
		25	0	19.63	24.15	22.66	20.01	24.89	23.03	18.10	23.25	21.94	21.44	23.18	22.90

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
10.0	QPSK	1	0	22.70	28.52	27.59	23.00	28.55	27.59	20.69	28.00	26.94	26.06	27.70	26.20
		1	24	27.70	28.57	27.70	27.70	28.53	27.70	26.12	27.99	27.00	26.27	27.64	26.30
		1	49	27.70	28.51	27.68	27.64	28.27	27.63	26.20	28.00	26.94	26.30	27.52	26.24
		25	0	23.70	28.63	26.74	24.04	28.57	27.11	22.02	27.38	26.04	25.56	27.24	25.39
		25	12	26.78	28.59	26.80	27.08	28.56	27.19	25.10	27.34	26.06	25.68	27.22	25.42
		25	24	25.69	28.57	26.71	26.00	28.37	27.11	24.18	27.33	26.00	25.61	27.13	25.40
		50	0	23.70	28.57	26.75	24.07	28.47	27.14	22.04	27.29	26.02	25.63	26.87	25.41
		1	0	21.70	28.58	26.89	22.08	28.70	27.01	19.80	27.32	26.06	25.69	26.20	25.82
	16QAM	1	24	26.84	28.70	26.91	27.15	28.65	27.19	25.16	27.44	26.09	25.85	27.16	25.86
		1	49	26.73	28.59	26.88	27.08	28.36	27.05	25.31	27.40	26.09	25.83	27.27	25.79
		25	0	22.70	27.62	25.75	23.05	27.70	26.13	21.04	26.42	25.05	24.56	26.27	24.72
		25	12	25.82	27.62	25.79	26.09	27.68	26.19	24.11	26.35	25.11	24.62	26.33	24.58
		25	24	24.68	27.60	25.71	25.04	27.54	26.10	23.17	26.37	25.00	24.61	26.32	24.68
		50	0	22.69	27.57	25.75	23.09	27.65	26.16	21.03	26.29	25.05	24.63	26.28	24.59
		1	0	20.67	27.79	25.92	21.23	27.97	26.23	18.94	26.50	25.16	24.60	26.15	24.69
		1	24	25.91	27.91	26.06	26.30	27.88	26.35	24.42	26.64	25.31	24.71	26.29	24.70
	64QAM	1	49	25.90	27.82	25.98	26.22	27.62	26.33	24.46	26.57	25.22	24.83	26.19	24.62
		25	0	21.67	26.71	24.72	22.12	26.91	25.15	20.03	25.39	24.06	23.58	25.13	23.79
		25	12	24.79	26.64	24.79	25.13	26.83	25.21	23.13	25.36	24.09	23.67	25.06	23.72
		25	24	23.70	26.65	24.71	24.03	26.68	25.12	22.17	25.36	24.00	23.64	25.08	23.73
		50	0	21.67	26.63	24.75	22.08	26.79	25.05	20.05	25.34	23.94	23.62	25.08	23.64
		1	0	17.68	24.62	22.79	18.11	25.06	23.13	15.88	23.47	22.11	21.46	23.23	21.79
		1	24	22.90	24.86	22.93	23.15	25.01	23.22	21.35	23.52	22.23	21.73	23.34	22.04
		1	49	22.81	24.81	22.80	22.99	24.65	23.19	21.38	23.48	22.12	21.72	23.20	22.37
	256QAM	25	0	19.70	24.71	22.73	20.05	25.00	23.18	18.03	23.41	22.07	21.55	23.13	21.67
		25	12	22.76	24.69	22.78	23.10	24.94	23.21	21.17	23.41	22.12	21.67	23.08	21.66
		25	24	22.64	24.70	22.72	22.04	24.80	23.11	20.21	23.35	22.02	21.63	23.09	21.71
		50	0	21.70	24.65	22.74	20.06	24.86	23.08	18.08	23.30	21.98	21.66	22.99	21.62

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
15.0	QPSK	1	0	22.65	28.28	27.65	23.02	28.58	27.70	20.66	28.00	26.98	25.91	26.97	26.09
		1	37	27.70	28.30	27.70	27.62	28.45	27.60	26.15	27.95	26.88	26.20	27.52	26.28
		1	74	27.60	28.38	27.65	27.70	28.26	27.70	26.20	27.97	27.00	26.30	27.62	26.26
		36	0	22.70	28.35	26.71	23.08	28.62	27.11	21.05	27.40	26.01	25.43	26.90	25.64
		36	16	26.74	28.29	26.72	27.03	28.55	27.14	25.21	27.34	25.99	25.57	26.97	25.53
		36	35	23.64	28.31	26.65	24.01	28.41	27.09	22.17	27.32	25.91	25.55	26.79	25.51
		75	0	22.68	28.27	26.70	23.03	28.50	27.14	21.09	27.31	25.96	25.58	26.76	25.41
		1	0	21.70	28.67	26.71	22.11	28.70	27.07	19.80	27.47	26.02	25.63	27.01	26.07
	16QAM	1	37	26.89	28.68	26.73	27.10	28.63	27.15	25.24	27.40	26.05	25.92	27.08	26.25
		1	74	26.75	28.70	26.82	27.12	28.25	27.16	25.24	27.42	26.02	25.96	27.70	26.30
		36	0	21.69	27.36	25.71	22.12	27.83	26.12	20.10	26.42	25.01	24.47	26.23	24.59
		36	16	25.75	27.32	25.73	26.05	27.74	26.15	24.25	26.33	25.01	24.58	26.11	24.70
		36	35	22.67	27.33	25.66	23.04	27.56	26.07	21.20	26.35	24.94	24.58	26.06	24.67
		75	0	21.70	27.31	25.73	22.03	27.72	26.14	20.10	26.31	25.01	24.59	25.97	24.52
		1	0	20.68	27.50	25.84	21.28	27.99	26.21	18.98	26.58	25.17	24.50	26.19	24.60
		1	37	25.99	27.63	25.84	26.32	27.84	26.28	24.36	26.56	25.20	24.75	26.14	24.57
	64QAM	1	74	25.97	27.56	25.91	26.21	27.54	26.36	24.45	26.57	25.19	24.78	26.04	24.52
		36	0	20.69	26.34	24.72	21.13	26.94	25.14	19.10	25.43	24.02	23.46	25.03	23.75
		36	16	24.75	26.30	24.72	25.06	26.88	25.14	23.25	25.34	23.99	23.58	25.15	23.72
		36	35	21.67	26.35	24.66	22.05	26.66	25.08	20.20	25.34	23.91	23.58	24.94	23.54
		75	0	20.70	26.31	24.64	21.03	26.81	25.07	19.13	25.35	23.92	23.58	24.95	23.57
		1	0	17.68	24.51	22.66	18.14	25.16	23.20	15.96	23.52	22.09	21.39	23.08	24.74
		1	37	22.85	24.45	22.85	23.19	24.94	23.31	21.31	23.47	22.11	21.69	23.72	25.03
		1	74	22.80	24.42	22.86	23.21	24.65	23.29	21.35	23.49	22.04	21.85	23.60	24.97
	256QAM	36	0	18.76	24.35	22.61	19.17	25.05	23.12	17.08	23.42	22.04	21.48	23.13	23.61
		36	16	22.77	24.29	22.71	23.06	24.97	23.12	21.25	23.35	22.02	21.59	23.11	23.67
		36	35	19.67	24.32	22.65	20.06	24.75	23.07	18.21	23.34	21.95	21.61	23.10	23.48
		75	0	18.77	24.29	22.64	19.07	24.91	23.05	17.12	23.28	21.92	21.59	23.06	23.63

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
20.0	QPSK	1	0	22.70	28.43	27.61	23.01	28.43	27.64	20.73	28.00	27.00	25.87	27.11	25.97
		1	49	27.70	28.38	27.60	27.70	28.38	27.64	26.15	27.97	26.92	26.23	27.70	26.01
		1	99	27.69	28.08	27.70	27.62	28.08	27.70	26.20	27.99	26.95	26.30	27.17	26.30
		50	0	22.76	28.47	26.69	23.02	28.47	27.05	21.08	27.37	25.98	25.43	27.01	24.96
		50	24	26.80	28.40	26.70	26.98	28.40	27.12	25.22	27.30	25.99	25.63	26.95	25.06
		50	49	23.68	28.30	26.64	23.95	28.30	27.06	22.15	27.29	25.91	25.61	26.87	24.95
		100	0	22.78	28.34	26.68	23.02	28.34	27.05	21.15	27.29	25.97	25.56	26.74	24.90
		1	0	21.74	28.51	26.61	21.99	28.51	27.00	19.71	27.32	26.09	25.47	27.17	25.32
	16QAM	1	49	27.04	28.70	27.00	27.12	28.70	26.95	25.36	27.58	26.06	25.92	27.53	25.85
		1	99	26.67	28.14	26.73	27.12	28.14	27.10	25.28	27.43	26.00	26.03	27.26	25.82
		50	0	21.79	27.67	25.68	22.09	27.67	26.06	20.08	26.35	25.01	24.46	26.10	24.08
		50	24	25.80	27.60	25.72	26.06	27.60	26.10	24.21	26.31	25.01	24.25	25.99	24.05
		50	49	22.71	27.44	25.66	23.01	27.44	26.07	21.16	26.32	24.94	24.30	25.89	23.98
		100	0	21.78	27.54	25.73	22.02	27.54	26.10	20.14	26.28	25.00	24.27	25.93	24.00
		1	0	20.89	27.80	25.78	21.22	27.80	26.17	18.82	26.50	25.11	24.05	26.27	24.47
		1	49	26.05	27.61	25.86	26.32	27.61	26.25	24.40	26.57	25.19	24.52	26.92	24.55
	64QAM	1	99	25.86	27.31	25.88	26.18	27.31	26.32	24.29	26.44	25.12	24.60	26.76	24.78
		50	0	20.81	26.82	24.66	21.12	26.82	25.07	19.08	25.34	23.99	23.15	25.16	23.07
		50	24	24.81	26.69	24.72	25.07	26.69	25.10	23.22	25.29	24.01	23.30	25.22	23.19
		50	49	21.73	26.55	24.63	22.00	26.55	25.07	20.16	25.28	23.94	23.31	25.25	23.09
		100	0	20.83	26.66	24.64	21.02	26.66	25.00	19.16	25.27	23.90	23.31	25.04	23.02
		1	0	17.91	25.03	22.79	18.09	25.03	23.07	15.84	23.44	22.17	21.19	24.04	21.67
		1	49	22.93	25.04	22.76	23.24	25.04	23.19	21.31	23.39	22.08	21.58	24.03	21.95
		1	99	22.83	24.59	22.85	23.24	24.59	23.24	21.34	23.50	22.08	21.65	24.01	21.94
	256QAM	50	0	18.77	24.91	22.57	19.11	24.91	23.06	17.05	23.35	22.01	21.16	23.13	21.12
		50	24	22.82	24.86	22.72	23.03	24.86	23.10	21.24	23.28	22.04	21.36	23.11	21.01
		50	49	19.69	24.67	22.65	20.04	24.67	23.02	18.16	23.27	21.96	21.38	23.12	21.00
		100	0	18.79	24.76	22.59	19.07	24.76	22.99	17.15	23.21	21.92	21.32	23.10	21.02

5G NR n41

Test Engineer ID:	28774	Test Date:	2024-01-23
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OUTPUT POWER FOR 5G NR n41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				500200	518600	537000	500200	518600	537000	500200	518600	537000	500200	518600	537000
10.0	BPSK	1	0	22.20	25.12	23.96	22.14	25.05	24.12	20.09	23.91	22.67	22.49	24.97	23.21
		1	1	22.88	28.58	27.70	22.10	28.68	27.64	20.20	27.50	26.30	22.56	27.94	26.78
		1	22	27.70	28.70	27.56	27.66	28.70	27.70	26.25	27.61	26.23	26.20	28.00	26.82
		1	23	25.03	26.23	25.27	24.07	25.04	24.05	22.78	24.03	22.67	22.62	24.96	23.23
		12	6	24.18	28.56	27.42	24.16	28.66	26.99	22.62	27.58	25.70	22.62	27.91	26.77
		24	0	24.20	28.46	27.16	24.17	28.18	27.18	22.63	27.09	25.71	22.61	27.86	26.20
	QPSK	1	0	21.48	25.20	24.17	21.65	25.15	24.16	19.72	23.95	22.63	21.43	24.93	23.28
		1	1	22.38	28.35	27.01	21.71	28.68	27.67	19.80	27.65	26.27	21.42	27.97	26.74
		1	22	27.54	28.33	27.07	27.70	28.64	27.65	26.30	27.70	26.18	26.19	27.86	27.00
		1	23	25.03	26.19	25.36	24.06	25.20	24.12	22.70	24.09	22.69	22.64	24.92	23.19
		12	6	23.17	28.16	26.86	23.02	28.66	26.74	21.69	27.65	25.80	21.55	27.98	26.37
		24	0	23.09	27.64	26.31	23.17	27.62	26.23	21.53	26.61	25.15	21.56	27.49	25.71
	16QAM	1	0	21.83	25.02	24.20	21.44	25.28	24.26	20.01	24.14	22.92	20.89	24.91	23.27
		1	1	22.41	27.71	26.24	21.28	27.39	26.24	19.82	26.55	24.96	20.92	27.50	25.73
		1	22	26.79	27.77	26.51	26.83	27.86	26.55	25.17	27.01	25.25	25.22	27.63	25.80
		1	23	25.16	26.18	25.23	24.27	25.07	23.90	22.68	24.32	22.58	22.67	24.90	23.41
		12	6	22.53	27.45	26.19	22.62	27.76	26.28	21.01	26.66	25.18	21.16	27.55	25.68
		24	0	22.53	26.95	25.58	22.54	26.70	25.43	21.24	25.61	24.31	21.07	26.44	24.77
	64QAM	1	0	21.15	25.17	24.05	21.17	25.55	24.36	19.06	24.69	23.33	21.15	25.22	23.43
		1	1	21.68	26.69	25.46	21.31	26.23	25.40	19.24	25.57	24.05	20.78	26.20	24.52
		1	22	25.79	26.79	25.53	25.33	26.61	25.53	23.84	25.63	23.89	23.79	25.96	24.23
		1	23	24.71	26.11	24.90	24.28	25.48	24.30	22.67	24.21	22.97	22.88	25.19	23.34
		12	6	22.58	26.59	25.31	22.44	26.12	24.98	21.07	24.98	23.71	21.13	26.13	24.32
		24	0	22.63	26.57	25.35	22.55	26.15	24.91	21.10	25.07	23.72	21.09	26.10	24.32
	256QAM	1	0	19.31	23.88	22.74	19.74	24.40	23.54	17.41	23.27	21.95	19.22	23.67	22.08
		1	1	20.29	24.94	23.71	19.83	24.26	23.42	17.39	23.25	21.72	19.35	24.01	22.12
		1	22	23.61	25.02	23.96	23.31	24.51	23.34	21.56	23.24	21.83	21.63	23.65	21.94
		1	23	23.76	24.90	23.93	23.29	24.83	23.26	21.27	23.30	21.97	21.25	23.92	21.95
		12	6	21.15	24.97	23.97	21.07	24.39	23.11	19.58	23.12	21.70	19.45	23.86	22.12
		24	0	21.00	24.96	24.06	21.00	24.14	23.08	19.57	23.06	21.68	19.46	23.88	22.16

OUTPUT POWER FOR 5G NR n41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				500700	518600	536500	500700	518600	536500	500700	518600	536500	500700	518600	536500
15.0	BPSK	1	0	22.40	26.29	25.37	22.20	24.98	24.01	20.03	23.97	22.57	20.13	24.92	23.46
		1	1	22.46	28.60	27.70	22.19	28.68	27.62	20.03	27.55	26.18	20.20	27.82	27.00
		1	36	27.70	28.57	27.64	27.66	28.70	27.70	26.30	27.66	26.30	26.18	27.95	26.79
		1	37	24.74	26.29	25.45	24.17	25.08	24.02	22.79	24.11	22.68	22.73	25.07	23.54
		18	9	24.58	28.70	27.44	24.12	28.59	27.58	22.51	27.60	26.18	22.42	27.88	26.72
		36	0	24.60	28.39	27.09	24.24	28.11	27.03	22.50	27.14	25.76	22.45	27.96	26.49
	QPSK	1	0	21.95	26.35	25.51	21.57	25.12	23.96	19.69	24.09	22.73	19.74	25.09	23.63
		1	1	21.99	28.34	27.04	21.76	28.58	27.56	19.68	27.61	26.14	19.87	27.94	26.66
		1	36	27.07	28.26	27.03	27.70	28.67	27.53	26.25	27.70	26.24	26.20	28.00	25.97
		1	37	24.69	26.43	25.57	24.12	25.08	24.12	22.77	24.19	22.59	22.67	25.08	23.64
		18	9	23.56	28.02	26.87	23.14	28.40	26.54	21.46	27.57	25.65	21.53	27.87	25.84
		36	0	23.52	27.52	26.26	23.09	27.63	26.41	21.47	26.67	25.19	21.47	27.50	25.21
	16QAM	1	0	21.80	26.39	25.53	21.96	25.02	23.97	19.63	23.92	22.74	19.86	24.95	23.65
		1	1	22.28	27.70	26.37	21.82	27.76	26.15	19.76	26.74	24.99	19.76	27.57	25.97
		1	36	26.20	27.51	26.59	26.60	27.75	26.72	25.09	26.27	25.38	25.16	27.72	24.90
		1	37	24.79	26.43	25.71	24.16	24.87	24.36	22.51	24.31	22.42	22.66	25.12	23.56
		18	9	23.04	27.39	26.21	22.54	27.52	26.16	20.88	26.49	25.05	20.93	27.42	25.10
		36	0	22.96	26.81	25.63	22.70	26.56	25.55	21.06	25.57	24.16	20.94	26.49	24.15
	64QAM	1	0	21.35	26.52	25.64	21.57	25.26	24.29	18.83	24.59	23.08	18.98	25.08	23.47
		1	1	21.34	26.80	25.38	21.53	26.61	25.66	19.22	25.50	24.03	19.34	26.13	24.39
		1	36	25.20	26.69	25.27	25.63	26.22	25.48	23.49	25.64	23.91	23.70	26.27	24.09
		1	37	24.46	26.35	25.32	24.33	25.56	24.37	22.64	24.25	22.89	22.37	25.50	23.41
		18	9	23.05	26.56	25.20	22.67	25.98	25.11	20.88	25.09	23.79	20.92	25.97	24.16
		36	0	22.98	26.63	25.34	22.64	25.97	24.92	20.93	24.97	23.74	20.90	26.03	23.99
	256QAM	1	0	19.63	25.32	24.51	19.70	24.43	23.27	17.36	23.03	21.87	17.59	23.85	22.14
		1	1	19.85	25.12	24.34	19.85	24.21	23.06	17.25	23.36	21.79	17.33	24.06	22.15
		1	36	23.46	25.07	24.33	23.48	24.23	23.55	21.50	23.18	21.85	21.29	23.75	22.42
		1	37	23.46	25.17	24.35	23.12	24.12	23.15	21.34	23.03	21.83	21.27	23.84	22.49
		18	9	21.35	25.24	24.22	21.18	24.02	23.00	19.54	23.02	21.71	19.50	23.87	22.51
		36	0	21.45	25.18	24.33	21.19	24.07	23.07	19.43	22.98	21.69	19.38	23.94	22.51

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
100.0	BPSK	1	0	22.02	22.56	24.03	22.37	23.67	24.52	20.44	22.44	23.17	20.61	22.92	23.93
		1	1	22.20	22.57	27.70	22.57	23.72	27.70	20.62	22.60	26.28	20.61	22.95	26.79
		1	271	27.70	27.99	27.40	27.70	28.60	26.32	26.30	27.36	25.41	26.20	27.82	25.34
		1	272	25.76	24.84	25.84	24.47	25.90	24.73	23.10	24.57	23.43	23.09	24.96	24.26
		135	67	23.65	28.62	25.95	24.54	28.41	26.90	23.32	27.70	26.08	23.13	28.00	26.43
		270	0	24.19	27.86	26.67	24.58	28.70	27.53	23.24	27.49	26.30	23.05	27.86	27.00
	QPSK	1	0	21.62	22.16	23.98	22.23	23.18	24.49	20.01	22.12	23.18	19.96	22.49	23.81
		1	1	21.89	22.15	27.06	21.91	23.16	27.09	20.12	22.09	26.07	20.24	22.37	25.71
		1	271	27.48	27.74	26.78	26.90	27.88	25.77	25.58	26.55	24.76	25.90	27.49	24.57
		1	272	25.89	24.81	25.76	24.52	25.38	24.79	23.31	24.64	23.42	22.87	25.03	23.83
		135	67	22.46	28.70	25.86	23.45	27.66	26.59	22.32	27.32	25.81	22.03	27.85	25.55
		270	0	23.21	27.33	25.94	23.46	27.02	25.60	22.26	26.42	25.04	22.01	27.02	25.23
	16QAM	1	0	21.65	22.09	24.20	22.48	22.56	24.78	20.16	21.99	23.40	20.04	22.42	24.02
		1	1	21.82	21.59	26.26	22.22	23.36	26.29	20.16	21.70	25.33	19.82	22.78	25.03
		1	271	27.07	27.09	26.19	25.95	26.89	25.12	24.59	25.61	23.84	25.31	26.39	23.58
		1	272	25.96	25.00	26.16	24.29	25.32	24.44	23.42	24.74	23.11	23.26	24.85	22.80
		135	67	22.05	27.32	25.94	22.96	27.25	25.10	21.76	26.53	24.64	21.56	27.32	25.31
		270	0	22.68	26.92	25.50	22.93	26.22	24.87	21.75	25.66	23.99	21.46	26.40	24.44
	64QAM	1	0	21.30	21.46	24.17	21.44	22.68	24.73	19.74	21.55	23.07	20.07	21.97	23.81
		1	1	21.11	21.32	25.55	21.71	22.86	25.33	19.07	21.46	23.93	19.66	22.03	24.06
		1	271	26.31	26.03	25.77	25.13	25.40	23.81	23.56	24.49	22.88	24.32	25.37	22.38
		1	272	26.33	25.12	25.62	25.29	25.99	23.81	23.22	24.19	23.01	23.57	25.09	22.53
		135	67	21.94	26.67	24.71	22.95	25.93	24.22	21.87	25.25	23.53	21.58	25.87	24.00
		270	0	22.57	26.47	25.20	23.05	25.82	24.42	21.77	25.26	23.38	21.67	25.89	23.95
	256QAM	1	0	19.80	19.80	22.85	20.24	21.46	23.74	17.99	19.84	21.45	18.40	20.42	22.21
		1	1	19.54	19.80	24.09	20.28	21.11	23.48	17.61	19.72	21.88	18.13	20.53	22.62
		1	271	24.85	23.36	24.34	23.92	24.16	22.80	21.93	22.40	21.08	22.55	23.68	21.09
		1	272	24.75	23.19	24.25	23.66	24.12	22.65	21.82	22.73	21.21	21.97	23.61	21.46
		135	67	20.45	25.22	22.73	21.57	24.49	22.77	20.36	23.51	21.96	20.17	24.02	22.47
		270	0	21.03	24.51	23.38	21.48	24.32	23.02	20.27	23.51	22.20	20.19	24.02	22.72

OUTPUT POWER FOR 5G NR n70 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	340500	N/A	N/A	340500	N/A	N/A	340500	N/A	N/A	340500	N/A
				N/A	1702.5	N/A	N/A	1702.5	N/A	N/A	1702.5	N/A	N/A	1702.5	N/A
15.0	BPSK	1	0		25.41			25.51			25.22			25.07	
		1	1		25.67			25.41			25.50			25.15	
		1	77		25.67			25.52			25.41			25.12	
		1	78		25.52			25.02			25.16			24.65	
		36	18		25.53			25.47			25.27			24.99	
		75	0		25.20			23.20			24.50			22.20	
	QPSK	1	0		25.01			24.69			24.72			24.30	
		1	1		25.70			25.70			25.37			25.20	
		1	77		25.56			25.39			25.41			25.17	
		1	78		24.86			24.63			24.65			24.19	
		36	18		25.60			25.49			25.28			25.04	
		75	0		24.70			22.70			24.00			21.70	
	16QAM	1	0		24.30			23.58			23.98			23.33	
		1	1		25.13			24.50			24.50			24.41	
		1	77		24.95			24.49			24.81			24.52	
		1	78		24.04			23.28			23.93			23.00	
		36	18		24.96			24.63			24.64			24.32	
		75	0		23.86			23.64			23.67			23.41	
	64QAM	1	0		23.19			21.20			23.15			20.70	
		1	1		23.32			23.33			23.06			23.18	
		1	77		23.18			23.14			22.96			22.85	
		1	78		23.21			23.26			23.05			23.00	
		36	18		23.42			23.34			23.20			22.90	
		75	0		23.42			21.20			23.15			20.20	
	256QAM	1	0		21.48			21.63			21.37			20.86	
		1	1		21.45			21.75			21.41			20.98	
		1	77		21.16			21.56			21.15			20.79	
		1	78		21.29			21.47			21.26			20.79	
		36	18		21.32			21.58			21.20			20.89	
		75	0		21.31			19.20			21.20			18.20	

8.13. LTE BAND 71 AND 5G NR n71

LTE BAND 71

Test Engineer ID:	25780	Test Date:	2023-11-21
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OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133147	133297	133447	133147	133297	133447
5.0	QPSK	1	0	665.5	680.5	695.5	665.5	680.5	695.5
		1	12	25.70	25.32	25.64	25.10	25.00	24.85
		1	24	25.66	25.32	25.65	25.20	25.12	24.92
		1	24	25.53	25.31	25.55	25.04	24.99	24.78
		12	0	25.34	25.09	25.39	24.05	23.98	23.88
		12	6	25.25	25.00	25.32	24.15	23.99	23.88
		12	11	25.16	24.88	25.24	24.13	24.01	23.85
	16QAM	25	0	24.15	23.88	24.17	24.12	23.96	23.89
		1	0	24.44	24.25	24.32	24.33	24.21	24.08
		1	12	24.46	24.24	24.32	24.45	24.23	24.17
		1	24	24.40	24.04	24.21	24.29	24.14	24.00
		12	0	24.27	24.04	24.31	23.10	23.12	22.97
		12	6	24.34	23.98	24.31	23.18	23.13	22.98
		12	11	24.30	23.94	24.29	23.14	23.16	22.95
	64QAM	25	0	23.14	22.96	23.26	23.11	22.96	22.88
		1	0	23.75	23.53	23.86	23.39	23.32	23.16
		1	12	23.70	23.56	23.79	23.35	23.33	23.19
		1	24	23.56	23.51	23.70	23.32	23.23	23.07
		12	0	23.47	23.24	23.49	22.16	22.01	22.02
		12	6	23.48	23.26	23.50	22.25	22.04	22.05
		12	11	23.37	23.22	23.52	22.20	22.05	21.96
	256QAM	25	0	22.35	22.18	22.42	22.12	21.97	21.90
		1	0	20.63	20.22	20.58	20.20	20.03	19.99
		1	12	20.75	20.39	20.62	20.29	20.19	20.06
		1	24	20.75	20.29	20.65	20.19	20.08	19.98
		12	0	20.62	20.34	20.65	20.06	19.98	19.88
		12	6	20.72	20.33	20.68	20.15	20.00	19.93
		12	11	20.73	20.30	20.66	20.12	20.03	19.85
		25	0	20.71	20.34	20.64	20.12	19.97	19.86

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133172	133322	133422	133172	133322	133422
10.0	QPSK	1	0	668.0	683.0	693.0	668.0	683.0	693.0
		1	24	25.70	24.82	25.03	25.20	25.09	24.97
		1	49	25.60	24.85	24.93	25.14	25.12	24.99
		1	49	25.47	24.70	24.79	25.04	24.98	24.88
		25	0	24.36	23.70	23.73	24.14	24.09	23.96
		25	12	24.29	23.73	23.79	24.20	24.06	23.95
		25	24	24.30	23.60	23.77	24.15	24.05	23.98
	16QAM	50	0	24.18	23.73	23.87	24.19	24.02	23.90
		1	0	24.42	24.07	24.18	24.33	24.26	24.18
		1	24	24.51	24.10	24.19	24.24	24.22	24.11
		1	49	24.46	23.95	24.04	24.16	24.10	24.03
		25	0	23.14	22.83	22.84	23.15	23.12	22.97
		25	12	23.17	22.87	22.92	23.23	23.08	22.93
		25	24	23.15	22.97	22.96	23.14	23.09	23.00
	64QAM	50	0	23.20	22.87	22.89	23.19	23.04	22.92
		1	0	24.21	23.46	23.54	23.47	23.36	23.28
		1	24	23.97	23.37	23.42	23.50	23.31	23.25
		1	49	23.79	23.23	23.21	23.35	23.21	23.14
		25	0	22.72	22.19	22.17	22.14	22.10	21.97
		25	12	22.61	22.12	22.08	22.24	22.08	21.95
		25	24	22.55	22.21	22.10	22.16	22.08	21.97
	256QAM	50	0	22.61	22.10	22.05	22.20	22.04	21.94
		1	0	20.64	20.32	20.16	20.25	20.17	20.06
		1	24	20.71	20.30	20.35	20.33	20.20	20.12
		1	49	20.73	20.36	20.13	20.16	20.11	20.00
		25	0	20.69	20.26	20.24	20.13	20.06	19.96
		25	12	20.68	20.28	20.25	20.20	20.06	19.96
		25	24	20.72	20.27	20.22	20.15	20.10	19.97
		50	0	20.67	20.33	20.21	20.17	20.02	19.90

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133197 670.5	133297 680.5	133397 690.5	133197 670.5	133297 680.5	133397 690.5
15.0	QPSK	1	0	25.70	25.32	25.16	25.18	25.15	25.07
		1	37	25.57	25.36	24.95	25.20	25.13	25.04
		1	74	25.16	25.10	24.62	25.06	24.97	24.85
		36	0	24.19	23.87	23.58	24.18	24.15	24.06
		36	16	24.14	23.94	23.58	24.23	24.12	24.01
		36	35	23.99	23.79	23.44	24.18	24.14	24.02
	16QAM	75	0	24.00	23.67	23.43	24.24	24.11	24.01
		1	0	24.16	23.87	23.68	24.35	24.30	24.18
		1	37	24.27	23.90	23.77	24.36	24.32	24.14
		1	74	24.17	23.72	23.61	24.26	24.20	23.97
		36	0	22.87	22.59	22.25	23.20	23.16	23.06
		36	16	22.88	22.60	22.37	23.25	23.13	23.03
	64QAM	36	35	22.87	22.60	22.33	23.20	23.15	23.04
		75	0	22.92	22.68	22.38	23.28	23.12	23.04
		1	0	23.41	23.13	22.93	23.53	23.44	23.42
		1	37	23.40	23.08	22.94	23.51	23.46	23.36
		1	74	23.20	22.92	22.81	23.47	23.32	23.20
		36	0	22.20	21.87	21.73	22.22	22.13	22.07
	256QAM	36	16	22.22	21.92	21.74	22.26	22.12	22.02
		36	35	22.19	21.84	21.74	22.19	22.12	22.02
		75	0	22.19	21.84	21.69	22.29	22.11	22.05
		1	0	20.31	19.96	19.78	20.28	20.33	20.21
		1	37	20.35	20.05	19.84	20.27	20.26	20.16
		1	74	20.54	20.09	19.85	20.29	20.24	20.15
		36	0	20.37	20.04	19.84	20.22	20.18	20.08
		36	16	20.38	20.10	19.87	20.23	20.11	20.02
		36	35	20.35	20.04	19.84	20.20	20.15	20.06
		75	0	20.33	20.05	19.92	20.27	20.12	20.02

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133222 673.0	133322 683.0	133372 688.0	133222 673.0	133322 683.0	133372 688.0
20.0	QPSK	1	0	25.70	25.67	25.47	25.20	25.10	25.12
		1	49	25.66	25.52	25.41	25.09	25.08	25.04
		1	99	25.30	25.20	25.14	25.03	24.97	24.88
		50	0	24.43	24.16	24.09	24.18	24.17	24.09
		50	24	24.30	24.06	24.17	24.20	24.10	24.09
		50	49	24.08	24.01	24.15	24.11	24.07	24.01
	16QAM	100	0	24.13	23.96	24.01	24.22	24.11	24.05
		1	0	24.56	24.26	24.31	24.29	24.23	24.21
		1	49	24.57	24.12	24.33	24.43	24.39	24.32
		1	99	24.55	24.01	24.32	24.17	24.06	23.98
		50	0	23.24	22.87	22.90	23.18	23.17	23.09
		50	24	23.26	22.90	23.09	23.21	23.10	23.13
	64QAM	50	49	23.24	22.82	23.04	23.12	23.09	23.03
		100	0	23.22	22.95	22.96	23.23	23.12	23.04
		1	0	23.94	23.63	23.54	23.35	23.40	23.29
		1	49	23.92	23.52	23.52	23.38	23.45	23.34
		1	99	23.77	23.32	23.44	23.16	23.19	23.03
		50	0	22.62	22.17	22.32	22.17	22.17	22.05
	256QAM	50	24	22.64	22.14	22.40	22.23	22.10	22.08
		50	49	22.56	22.10	22.28	22.11	22.07	22.00
		100	0	22.53	22.15	22.19	22.22	22.12	22.05
		1	0	20.82	20.23	20.33	20.38	20.32	20.33
		1	49	20.87	20.37	20.51	20.29	20.26	20.14
		1	99	20.70	20.37	20.48	20.31	20.27	20.15
		50	0	20.81	20.31	20.37	20.18	20.14	20.08
		50	24	20.82	20.43	20.51	20.19	20.07	20.10
		50	49	20.72	20.38	20.44	20.14	20.09	20.05
		100	0	20.71	20.41	20.35	20.22	20.08	20.02

5G NR n71

Test Engineer ID:	32061	Test Date:	2023-11-27
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OUTPUT POWER FOR 5G NR n71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133100	136100	139100	133100	136100	139100
5.0	BPSK	1	0	25.46	25.17	24.98	24.89	24.71	24.62
		1	1	25.70	25.52	25.26	25.02	24.96	24.76
		1	23	25.45	25.43	25.13	25.11	25.00	24.65
		1	24	25.29	25.17	24.91	24.79	24.72	24.55
		12	6	25.53	25.41	25.23	25.03	25.00	24.77
		25	0	25.27	25.14	24.99	24.77	24.68	24.55
	QPSK	1	0	24.42	24.66	24.53	24.34	24.17	24.08
		1	1	25.51	25.37	25.23	25.20	24.79	24.79
		1	23	25.56	25.44	25.26	25.04	24.82	24.63
		1	24	24.90	24.61	24.33	24.33	24.22	23.94
		12	6	25.56	25.52	25.24	25.07	24.98	24.81
		25	0	24.83	24.67	24.51	24.33	24.25	24.03
	16QAM	1	0	23.30	23.80	23.56	23.19	23.22	23.28
		1	1	24.60	24.80	24.56	24.27	24.36	24.21
		1	23	25.06	24.47	24.77	24.59	24.03	24.13
		1	24	23.85	23.59	23.79	23.52	23.25	22.78
		12	6	24.81	24.74	24.55	24.38	24.16	24.14
		25	0	23.82	23.61	23.53	23.33	23.23	23.02
	64QAM	1	0	22.91	23.17	22.88	22.75	22.92	22.57
		1	1	23.02	22.84	23.08	22.93	22.65	22.54
		1	23	23.18	22.91	22.91	22.80	22.61	22.31
		1	24	23.08	23.06	22.80	22.76	22.74	22.36
		12	6	23.43	23.21	23.03	22.90	22.76	22.51
		25	0	23.28	23.08	23.00	22.81	22.77	22.57
	256QAM	1	0	21.25	21.04	21.13	20.79	20.85	20.38
		1	1	21.21	21.07	20.58	21.06	20.83	20.52
		1	23	21.45	21.14	20.80	20.89	20.81	20.39
		1	24	21.14	21.04	20.98	20.78	20.74	20.45
		12	6	21.31	21.04	20.93	20.83	20.61	20.39
		25	0	21.28	21.12	20.95	20.78	20.66	20.42

OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133600	136600	138600	133600	136600	138600
10.0	BPSK	1	0	25.40	25.12	25.13	24.88	24.78	24.67
		1	1	25.70	25.37	25.34	25.20	24.88	24.91
		1	50	25.46	25.30	25.22	24.94	24.84	24.74
		1	51	25.26	25.15	25.04	24.89	24.76	24.54
		25	12	25.48	25.24	25.12	25.04	24.78	24.72
		50	0	25.29	25.05	24.99	24.86	24.64	24.62
	QPSK	1	0	24.49	24.71	24.26	24.39	24.23	24.22
		1	1	25.51	25.32	24.92	25.12	24.91	24.94
		1	50	25.47	25.33	24.77	25.11	24.91	24.83
		1	51	24.74	24.60	24.07	24.30	24.18	24.09
		25	12	25.49	25.30	25.01	25.07	24.87	24.78
		50	0	24.77	24.61	24.00	24.29	24.17	24.10
	16QAM	1	0	23.54	23.85	23.55	23.47	23.42	23.33
		1	1	24.62	24.88	24.20	24.34	24.06	23.96
		1	50	24.74	24.59	24.25	24.41	24.09	23.60
		1	51	23.68	24.05	23.24	23.53	23.15	22.91
		25	12	24.79	24.52	24.08	24.30	24.05	24.06
		50	0	23.87	23.64	23.19	23.28	23.11	23.11
	64QAM	1	0	22.93	23.06	22.66	22.86	22.78	22.60
		1	1	22.94	23.19	22.90	22.87	22.80	22.44
		1	50	23.12	23.13	22.76	22.55	22.52	22.70
		1	51	23.12	22.93	22.70	22.70	22.43	22.53
		25	12	23.23	23.12	22.83	22.84	22.63	22.55
		50	0	23.30	23.07	22.54	22.84	22.59	22.58
	256QAM	1	0	21.34	21.19	20.79	20.76	20.61	20.52
		1	1	21.37	21.58	21.00	20.77	20.82	20.67
		1	50	21.39	21.09	20.75	20.62	20.53	20.33
		1	51	21.12	20.97	20.78	20.68	20.78	20.44
		25	12	21.15	21.18	20.59	20.74	20.62	20.52
		50	0	21.16	21.14	20.44	20.72	20.59	20.52

OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				134100 670.5	136100 680.5	138100 690.5	134100 670.5	136100 680.5	138100 690.5
15.0	BPSK	1	0	25.26	25.32	25.46	25.04	24.90	24.80
		1	1	25.53	25.54	25.70	25.13	25.06	24.92
		1	77	25.51	25.37	25.46	25.00	24.84	24.72
		1	78	25.27	25.06	25.26	24.73	24.70	24.51
		36	18	25.36	25.32	25.45	24.91	24.82	24.74
		75	0	25.24	25.10	25.34	24.74	24.70	24.62
	QPSK	1	0	24.40	24.68	24.95	24.29	24.31	24.28
		1	1	25.46	25.31	25.67	25.20	25.10	24.91
		1	77	25.60	25.29	25.44	24.88	24.91	24.76
		1	78	24.78	24.79	24.71	24.25	24.17	23.94
		36	18	25.46	25.63	25.57	24.97	24.92	24.85
		75	0	24.80	24.98	24.89	24.30	24.20	24.16
	16QAM	1	0	23.69	24.29	24.05	23.28	23.52	23.35
		1	1	24.59	25.42	25.01	24.50	24.41	23.95
		1	77	24.63	24.96	24.71	24.32	24.32	24.00
		1	78	23.94	24.06	23.58	23.11	23.40	23.16
		36	18	24.87	25.06	24.81	24.26	24.18	24.08
		75	0	23.84	24.01	23.73	23.24	23.19	23.10
	64QAM	1	0	23.11	23.42	23.28	22.87	22.81	22.74
		1	1	23.09	23.59	23.42	22.85	22.60	22.57
		1	77	23.30	23.31	23.15	22.79	22.48	22.60
		1	78	23.08	23.55	23.28	22.88	22.70	22.58
		36	18	23.32	23.60	23.22	22.77	22.80	22.69
		75	0	23.37	23.55	23.13	22.82	22.64	22.63
	256QAM	1	0	21.30	21.71	21.12	21.18	20.69	20.53
		1	1	21.76	21.76	21.06	20.68	20.79	20.81
		1	77	21.18	21.43	20.99	20.63	20.67	20.61
		1	78	21.49	21.35	20.78	20.61	20.68	20.46
		36	18	21.35	21.41	21.07	20.84	20.71	20.60
		75	0	21.31	21.40	21.08	20.88	20.73	20.62

OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				134600 673.0	136600 683.0	137600 688.0	134600 673.0	136600 683.0	137600 688.0
20.0	BPSK	1	0	25.37	25.20	25.31	25.00	24.74	24.77
		1	1	25.67	25.56	25.51	25.20	25.06	25.04
		1	104	25.32	25.21	25.23	24.94	24.83	24.66
		1	105	25.17	25.05	25.04	24.74	24.57	24.44
		50	25	25.54	25.41	25.61	24.98	24.89	24.88
		100	0	25.37	25.22	25.36	24.81	24.69	24.64
	QPSK	1	0	24.58	24.93	24.72	24.34	24.21	24.22
		1	1	25.70	25.55	25.48	25.16	24.90	24.91
		1	104	25.29	25.40	25.21	24.86	24.74	24.65
		1	105	24.57	24.73	24.49	24.14	24.02	23.93
		50	25	25.56	25.48	25.45	25.04	24.91	24.87
		100	0	24.86	24.73	24.56	24.33	24.19	24.14
	16QAM	1	0	23.55	24.14	23.95	23.33	23.49	23.23
		1	1	24.90	24.91	24.66	24.45	24.15	24.34
		1	104	24.63	24.67	24.74	24.35	23.91	24.07
		1	105	23.58	23.66	23.62	23.15	23.13	22.69
		50	25	24.89	24.80	24.73	24.41	24.18	24.13
		100	0	23.86	23.75	23.65	23.38	23.19	23.13
	64QAM	1	0	23.06	23.38	23.31	22.80	22.67	22.39
		1	1	23.05	23.23	23.16	22.79	22.57	22.49
		1	104	23.21	23.21	23.12	22.72	22.55	22.27
		1	105	23.16	23.04	22.69	22.78	22.67	22.47
		50	25	23.18	23.15	23.05	22.86	22.62	22.57
		100	0	23.28	23.15	23.09	22.86	22.67	22.62
	256QAM	1	0	21.16	21.02	21.21	20.95	20.80	20.64
		1	1	21.28	21.56	21.08	20.83	20.48	20.49
		1	104	21.04	21.12	21.17	20.65	20.77	20.60
		1	105	20.71	21.03	21.25	20.79	20.46	20.45
		50	25	21.00	20.93	21.03	20.67	20.59	20.51
		100	0	21.04	21.05	21.09	20.84	20.64	20.57

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		25.11			22.17			25.00			21.49	
		1	1		28.61			25.57			28.46			24.57	
		1	271		28.64			25.32			28.46			24.70	
		1	272		24.96			21.75			24.84			20.96	
		135	67		28.65			25.56			28.44			24.60	
		270	0		28.17			25.04			28.02			24.08	
	QPSK	1	0		25.13			22.18			25.11			20.96	
		1	1		28.66			25.70			28.70			24.65	
		1	271		28.46			25.55			28.69			24.46	
		1	272		25.03			21.82			24.95			20.91	
		135	67		28.70			25.58			28.55			24.62	
		270	0		27.65			24.49			27.51			23.55	
	16QAM	1	0		24.63			21.51			25.18			20.96	
		1	1		27.59			24.51			27.67			23.87	
		1	271		27.69			24.37			27.48			23.54	
		1	272		25.44			22.36			25.36			21.39	
		135	67		27.60			24.46			27.51			23.51	
		270	0		26.59			23.46			26.55			22.56	
	64QAM	1	0		25.06			21.87			25.09			21.45	
		1	1		26.25			22.92			26.35			22.34	
		1	271		26.36			22.84			26.38			21.95	
		1	272		24.85			21.64			25.20			21.07	
		135	67		26.06			23.08			26.01			22.03	
		270	0		26.13			22.99			26.02			22.04	
	256QAM	1	0		24.18			20.58			23.88			20.15	
		1	1		24.13			20.66			24.03			20.27	
		1	271		23.67			20.61			23.95			19.95	
		1	272		24.32			20.35			24.03			20.65	
		135	67		24.17			20.90			24.01			20.07	
		270	0		24.07			20.99			24.00			20.04	

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
100.0	BPSK	1	0	25.22	24.93	24.53	22.15	21.79	21.39	23.90	25.05	24.36	21.09	21.17	20.79
		1	1	28.70	28.12	28.01	25.49	25.38	24.86	27.57	28.70	27.82	24.60	24.62	24.34
		1	271	27.26	26.90	26.82	24.55	24.32	24.27	27.84	27.51	27.72	24.64	24.00	23.73
		1	272	23.75	23.19	23.35	21.30	20.91	20.80	24.46	24.08	23.89	21.28	20.86	20.25
		135	67	28.01	27.40	27.22	25.13	24.70	24.59	27.86	28.11	27.51	24.68	24.47	23.95
	QPSK	270	0	27.52	26.97	26.76	24.74	24.15	24.08	27.38	27.65	27.02	24.10	23.98	23.56
		1	0	25.28	24.88	24.43	22.12	21.88	21.49	24.14	24.95	24.24	21.05	21.19	20.88
		1	1	28.65	28.20	28.01	25.70	25.28	24.87	28.00	28.05	27.87	24.56	24.70	24.09
		1	271	27.27	26.96	26.74	24.92	24.33	24.57	28.06	27.49	27.53	24.69	24.40	23.70
		1	272	23.81	23.32	23.48	21.42	20.88	20.75	24.64	24.38	23.92	21.21	20.71	20.21
	16QAM	135	67	27.99	27.46	27.14	25.25	24.69	24.60	28.20	28.51	27.52	24.60	24.50	23.98
		270	0	27.06	26.49	26.25	24.20	23.72	23.57	27.34	27.56	26.52	23.59	23.45	22.92
		1	0	24.98	24.88	24.49	22.13	21.80	20.95	24.86	24.76	24.72	20.96	21.16	21.38
		1	1	27.33	27.50	27.45	24.79	24.61	24.58	26.69	27.44	26.89	23.86	24.11	23.21
		1	271	26.37	26.10	25.49	23.93	23.18	23.33	27.22	27.29	26.68	23.32	23.08	22.71
	64QAM	1	272	23.80	23.25	23.02	21.37	20.37	20.80	25.17	23.93	24.22	21.06	21.19	19.79
		135	67	27.03	26.48	26.13	24.28	23.66	23.56	27.01	27.03	26.48	23.61	23.48	22.90
		270	0	26.07	25.49	25.18	23.22	22.66	22.62	26.09	26.05	25.48	22.57	22.44	21.82
		1	0	25.27	24.54	24.88	22.29	21.74	21.25	24.63	24.97	24.36	20.24	21.18	20.82
		1	1	25.87	25.76	25.40	23.50	23.32	22.78	25.76	25.78	25.57	21.78	22.55	21.70
	256QAM	1	271	24.70	23.97	24.38	22.39	22.14	21.85	25.74	25.11	25.47	22.45	21.60	21.15
		1	272	23.53	23.20	23.06	21.76	21.06	20.84	24.59	23.86	24.16	21.27	21.17	20.59
		135	67	25.50	24.84	24.63	22.74	22.12	22.11	25.71	25.29	24.91	22.09	21.83	21.41
		270	0	25.49	24.94	24.67	22.74	22.13	22.09	25.68	25.34	24.97	22.12	21.79	21.45
		1	0	23.62	23.39	22.84	21.50	20.41	20.73	23.76	23.99	23.31	20.12	20.28	20.04
		1	1	23.78	23.30	23.16	21.01	21.02	20.42	23.62	23.90	23.59	19.82	20.41	20.11
		1	271	22.35	21.74	21.61	20.40	19.82	20.03	24.02	22.53	22.72	20.66	19.59	19.36
		1	272	22.47	21.79	21.88	19.94	19.63	19.84	24.49	23.02	22.75	20.65	19.53	19.34
		135	67	23.40	22.89	22.68	20.76	20.13	20.16	23.81	23.35	22.97	20.06	19.83	19.36
		270	0	23.45	23.05	22.70	20.74	20.12	20.06	23.84	23.35	22.94	20.10	19.86	19.36

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 except 5G NR n70 where mix of middle/high channels are used. Worst-case plots (highest bandwidth) are reported only.

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	4.505	5.112
	5MHz, 16QAM			4.502	5.103
	10MHz, QPSK	50/0		8.991	10.03
	10MHz, 16QAM			9.001	9.982
	15MHz, QPSK	75/0		13.482	14.86
	15MHz, 16QAM			13.452	14.74
	20MHz, QPSK	100/0		17.947	19.57
	20MHz, 16QAM			17.952	19.64
	20MHz, QPSK	1/0		0.250	0.461

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	4.468	5.004
	5MHz, QPSK			4.500	5.156
	5MHz, 16QAM			4.483	5.056
	10MHz, BPSK	50/0		8.945	9.825
	10MHz, QPSK			8.972	9.786
	10MHz, 16QAM			8.959	9.666
	15MHz, BPSK	75/0		13.375	14.29
	15MHz, QPSK			13.434	14.39
	15MHz, 16QAM			13.429	14.32
	20MHz, BPSK	100/0		17.914	18.96
	20MHz, QPSK			17.867	18.92
	20MHz, 16QAM			17.920	19.14
	25MHz, BPSK	128/0		22.862	24.18
	25MHz, QPSK			22.906	24.29
	25MHz, 16QAM			22.857	24.27
	30MHz, BPSK	160/0		28.539	30.02
	30MHz, QPSK			28.651	30.15
	30MHz, 16QAM			28.629	30.04
	35MHz, BPSK	180/0		32.165	33.77
	35MHz, QPSK			32.114	33.67
	35MHz, 16QAM			32.154	33.65
	40MHz, BPSK	216/0		38.606	40.34
	40MHz, QPSK			38.483	40.38
	40MHz, 16QAM			38.522	40.25
		40MHz, BPSK		1/0	0.309

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	1.092	1.323
	1.4MHz, 16QAM			1.099	1.365
	3MHz, QPSK	15/0		2.711	3.044
	3MHz, 16QAM			2.703	3.038
	5MHz, QPSK	25/0		4.500	5.110
	5MHz, 16QAM			4.500	5.103
	10MHz, QPSK	50/0		8.983	9.932
	10MHz, 16QAM			8.956	9.966
	10MHz, QPSK	1/0		0.240	0.415

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	4.509	5.111
	5MHz, QPSK			4.481	4.932
	5MHz, 16QAM			4.474	4.994
	10MHz, BPSK	50/0		8.957	9.627
	10MHz, QPSK			8.917	9.678
	10MHz, 16QAM			8.945	9.690
	15MHz, BPSK	75/0		13.443	14.38
	15MHz, QPSK			13.403	14.33
	15MHz, 16QAM			13.420	14.36
	15MHz, BPSK	1/0		0.238	0.387

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	4.499	5.109
	5MHz, 16QAM			4.508	5.121
	10MHz, QPSK	50/0		8.954	9.876
	10MHz, 16QAM			8.968	9.949
	10MHz, QPSK	1/0		0.250	0.411

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	4.518	5.211
	5MHz, 16QAM			4.506	5.042
	10MHz, QPSK	50/0		8.972	9.844
	10MHz, 16QAM			8.965	9.875
	10MHz, QPSK	1/0		0.236	0.383

5G NR n14

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n14	5MHz, BPSK	25/0	793.0	4.501	5.121
	5MHz, QPSK			4.480	5.194
	5MHz, 16QAM			4.491	5.150
	10MHz, BPSK	50/0		8.943	9.556
	10MHz, QPSK			8.945	9.683
	10MHz, 16QAM			8.963	9.763
	10MHz, BPSK	1/0		0.235	0.366

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	4.497	5.071
	5MHz, 16QAM			4.500	5.041
	10MHz, QPSK	50/0		8.967	9.931
	10MHz, 16QAM			8.975	10.02
	10MHz, QPSK	1/0		0.246	0.441

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	1.096	1.353
	1.4MHz, 16QAM			1.095	1.361
	3MHz, QPSK	15/0		2.698	3.055
	3MHz, 16QAM			2.708	3.085
	5MHz, QPSK	25/0		4.506	5.092
	5MHz, 16QAM			4.503	5.120
	10MHz, QPSK	50/0		8.975	9.898
	10MHz, 16QAM			8.988	9.972
	15MHz, QPSK	75/0		13.478	14.82
	15MHz, 16QAM			13.452	14.92
	20MHz, QPSK	100/0		17.987	19.64
	20MHz, 16QAM			17.939	19.70
	20MHz, QPSK	1/0		0.268	0.475

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	4.492	5.044
	5MHz, QPSK			4.494	5.055
	5MHz, 16QAM			4.463	5.038
	10MHz, BPSK	50/0		8.957	9.746
	10MHz, QPSK			8.969	9.726
	10MHz, 16QAM			8.954	9.751
	15MHz, BPSK	75/0		13.425	14.20
	15MHz, QPSK			13.401	14.44
	15MHz, 16QAM			13.477	14.47
	20MHz, BPSK	100/0		17.904	18.97
	20MHz, QPSK			17.953	19.09
	20MHz, 16QAM			17.870	19.02
	25MHz, BPSK	128/0		22.859	24.17
	25MHz, QPSK			22.927	24.19
	25MHz, 16QAM			22.939	24.07
	30MHz, BPSK	160/0		28.646	30.12
	30MHz, QPSK			28.657	30.16
	30MHz, 16QAM			28.583	29.98
	35MHz, BPSK	180/0		32.177	33.91
	35MHz, QPSK			32.120	33.77
	35MHz, 16QAM			32.218	33.72
	40MHz, BPSK	216/0		38.511	40.38
	40MHz, QPSK			38.572	40.27
	40MHz, 16QAM			38.729	40.40
		40MHz, BPSK		1/0	0.270

LTE BAND 26(FCC 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	1.091	1.338
	1.4MHz, 16QAM			1.094	1.343
	3MHz, QPSK	15/0		2.703	3.013
	3MHz, 16QAM			2.700	3.062
	5MHz, QPSK	25/0		4.495	5.026
	5MHz, 16QAM			4.506	5.192
	10MHz, QPSK	50/0		8.973	9.948
	10MHz, 16QAM			8.975	9.823
	10MHz, QPSK	1/0		0.248	0.420

5G NR n26 (FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (Part 90S)	5MHz, BPSK	25/0	819.0	4.486	4.959
	5MHz, QPSK			4.475	4.978
	5MHz, 16QAM			4.478	4.982
	10MHz, BPSK	50/0		8.922	9.711
	10MHz, QPSK			8.973	9.665
	10MHz, 16QAM			8.977	9.776
	10MHz, BPSK	1/0		0.240	0.391

LTE BAND 26 (FCC 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	1.092	1.346
	1.4MHz, 16QAM			1.097	1.344
	3MHz, QPSK	15/0		2.702	3.062
	3MHz, 16QAM			2.708	3.056
	5MHz, QPSK	25/0		4.504	5.081
	5MHz, 16QAM			4.499	5.118
	10MHz, QPSK	50/0		8.968	9.908
	10MHz, 16QAM			8.976	9.989

5G NR n26 (FCC PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (FCC Part 22)	5MHz, BPSK	25/0	836.5	4.492	5.195
	5MHz, QPSK			4.489	5.128
	5MHz, 16QAM			4.508	5.191
	10MHz, BPSK	50/0		8.962	9.724
	10MHz, QPSK			8.947	9.756
	10MHz, 16QAM			8.916	9.656
	15MHz, BPSK	75/0		13.430	14.29
	15MHz, QPSK			13.429	14.36
	15MHz, 16QAM			13.387	14.35
	20MHz, BPSK	100/0		17.894	19.03
	20MHz, QPSK			17.887	19.01
	20MHz, 16QAM			17.814	18.92
	20MHz, BPSK	1/0		0.265	0.459

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	4.506	5.101
	5MHz, 16QAM			4.511	5.130
	10MHz, QPSK	50/0		8.976	10.02
	10MHz, 16QAM			8.983	9.996
	10MHz, QPSK	1/0		0.250	0.426

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	4.500	5.123
	5MHz, QPSK			4.479	4.966
	5MHz, 16QAM			4.472	5.074
	10MHz, BPSK	50/0		8.961	9.736
	10MHz, QPSK			8.947	9.736
	10MHz, 16QAM			8.951	9.640
	10MHz, BPSK	1/0		0.219	0.325

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	4.501	5.133
	5MHz, 16QAM			4.486	5.133
	10MHz, QPSK	50/0		8.974	9.861
	10MHz, 16QAM			8.989	9.908
	15MHz, QPSK	75/0		13.416	14.77
	15MHz, 16QAM			13.443	14.85
	20MHz, QPSK	100/0		17.864	19.28
	20MHz, 16QAM			17.923	19.48
	20MHz, QPSK	1/0		0.289	0.478

5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41 (FCC)	10MHz, BPSK	24/0	2593.0	8.629	9.862
	10MHz, QPSK			8.635	9.784
	10MHz, 16QAM			8.572	9.483
	15MHz, BPSK	36/0		12.931	14.22
	15MHz, QPSK			12.951	14.52
	15MHz, 16QAM			12.896	14.39
	20MHz, BPSK	50/0		17.928	19.38
	20MHz, QPSK			17.916	19.52
	20MHz, 16QAM			17.925	19.67
	30MHz, BPSK	75/0		26.769	28.87
	30MHz, QPSK			26.885	28.86
	30MHz, 16QAM			26.811	28.73
	40MHz, BPSK	100/0		35.936	38.01
	40MHz, QPSK			35.646	38.21
	40MHz, 16QAM			35.886	38.04
	50MHz, BPSK	128/0		45.810	48.23
	50MHz, QPSK			45.806	48.52
	50MHz, 16QAM			45.697	48.39
	60MHz, BPSK	162/0		57.934	60.66
	60MHz, QPSK			58.032	60.97
	60MHz, 16QAM			57.791	60.85
	70MHz, BPSK	180/0		64.159	67.70
	70MHz, QPSK			64.325	67.72
	70MHz, 16QAM			64.428	67.66
	80MHz, BPSK	216/0		77.107	80.85
	80MHz, QPSK			77.086	80.81
	80MHz, 16QAM			77.241	80.83
	90MHz, BPSK	243/0		86.636	90.44
	90MHz, QPSK			86.926	90.57
	90MHz, 16QAM			86.715	90.62
	100MHz, BPSK	270/0		96.276	100.8
	100MHz, QPSK			96.442	100.7
	100MHz, 16QAM			96.633	100.6
	100MHz, BPSK	1/0		0.596	0.894

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	1.089	1.332
	1.4MHz, 16QAM			1.096	1.358
	3MHz, QPSK	15/0		2.700	3.034
	3MHz, 16QAM			2.701	3.068
	5MHz, QPSK	25/0		4.501	5.171
	5MHz, 16QAM			4.508	5.136
	10MHz, QPSK	50/0		8.984	9.877
	10MHz, 16QAM			8.992	9.867
	15MHz, QPSK	75/0		13.453	14.89
	15MHz, 16QAM			13.454	14.70
	20MHz, QPSK	100/0		17.913	19.42
	20MHz, 16QAM			17.938	19.71
	20MHz, QPSK	1/0		0.266	0.450

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	4.490	5.064
	5MHz, QPSK			4.501	5.194
	5MHz, 16QAM			4.504	5.044
	10MHz, BPSK	50/0		8.960	9.848
	10MHz, QPSK			8.970	9.668
	10MHz, 16QAM			8.980	9.773
	15MHz, BPSK	75/0		13.424	14.47
	15MHz, QPSK			13.441	14.45
	15MHz, 16QAM			13.366	14.32
	20MHz, BPSK	100/0		17.899	18.94
	20MHz, QPSK			17.959	19.04
	20MHz, 16QAM			17.873	19.14
	25MHz, BPSK	128/0		22.858	24.18
	25MHz, QPSK			22.849	24.20
	25MHz, 16QAM			22.926	24.30
	30MHz, BPSK	160/0		28.552	29.92
	30MHz, QPSK			28.601	30.11
	30MHz, 16QAM			28.663	29.96
	35MHz, BPSK	180/0		32.090	33.51
	35MHz, QPSK			32.135	33.49
	35MHz, 16QAM			32.083	33.50
	40MHz, BPSK	216/0		38.603	40.56
	40MHz, QPSK			38.572	40.55
	40MHz, 16QAM			38.538	40.29
		40MHz, BPSK		1/0	0.266

5G NR n70

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n70	5MHz, BPSK	25/0	1702.5	4.492	5.056
	5MHz, QPSK			4.490	5.05
	5MHz, 16QAM			4.476	5.05
	10MHz, BPSK	50/0		8.963	9.809
	10MHz, QPSK			8.927	9.67
	10MHz, 16QAM			8.970	9.76
	15MHz, BPSK	75/0		13.486	14.55
	15MHz, QPSK			13.434	14.43
	15MHz, 16QAM			13.391	14.34
	15MHz, BPSK	1/0		0.262	0.457

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	4.499	5.127
	5MHz, 16QAM			4.503	5.115
	10MHz, QPSK	50/0		8.961	9.993
	10MHz, 16QAM			8.966	9.947
	15MHz, QPSK	75/0		13.443	14.85
	15MHz, 16QAM			13.456	14.72
	20MHz, QPSK	100/0		17.872	19.51
	20MHz, 16QAM			17.920	19.31
	20MHz, QPSK	1/0		0.266	0.421

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	4.492	5.085
	5MHz, QPSK			4.483	4.982
	5MHz, 16QAM			4.480	5.027
	10MHz, BPSK	50/0		8.978	9.661
	10MHz, QPSK			8.943	9.710
	10MHz, 16QAM			8.959	9.861
	15MHz, BPSK	75/0		13.384	14.34
	15MHz, QPSK			13.411	14.43
	15MHz, 16QAM			13.425	14.47
	20MHz, BPSK	100/0		17.846	19.00
	20MHz, QPSK			17.867	18.86
	20MHz, 16QAM			17.794	18.89
	20MHz, BPSK	1/0		0.252	0.415

5G NR n77(FCC 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)	10MHz, BPSK	24/0	3500.0	8.652	9.624
	10MHz, QPSK			8.587	9.660
	10MHz, 16QAM			8.586	9.579
	15MHz, BPSK	36/0		12.931	14.31
	15MHz, QPSK			12.956	14.06
	15MHz, 16QAM			12.867	14.29
	20MHz, BPSK	50/0		17.914	19.68
	20MHz, QPSK			17.923	19.52
	20MHz, 16QAM			17.937	19.53
	30MHz, BPSK	75/0		26.864	28.68
	30MHz, QPSK			26.869	28.66
	30MHz, 16QAM			26.840	28.68
	40MHz, BPSK	100/0		35.811	38.03
	40MHz, QPSK			35.694	38.08
	40MHz, 16QAM			35.644	37.97
	50MHz, BPSK	128/0		45.753	48.25
	50MHz, QPSK			45.772	48.46
	50MHz, 16QAM			45.758	48.48
	60MHz, BPSK	162/0		57.881	60.66
	60MHz, QPSK			57.920	60.81
	60MHz, 16QAM			58.085	60.72
	70MHz, BPSK	180/0		64.370	67.75
	70MHz, QPSK			64.487	67.51
	70MHz, 16QAM			64.372	67.30
	80MHz, BPSK	216/0		77.211	80.89
	80MHz, QPSK			77.195	80.67
	80MHz, 16QAM			76.976	80.90
	90MHz, BPSK	243/0		86.848	90.58
	90MHz, QPSK			86.885	90.76
	90MHz, 16QAM			86.749	90.64
	100MHz, BPSK	270/0		96.481	100.7
	100MHz, QPSK			96.626	100.7
	100MHz, 16QAM			96.224	100.6
	100MHz, BPSK	1/0		0.596	1.042

5G NR n77(FCC 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)	10MHz, BPSK	24/0		8.653	9.961
	10MHz, QPSK			8.551	9.530
	10MHz, 16QAM			8.585	9.409
	15MHz, BPSK	36/0		12.909	14.09
	15MHz, QPSK			12.865	13.73
	15MHz, 16QAM			12.932	13.80
	20MHz, BPSK	50/0		17.827	19.41
	20MHz, QPSK			17.885	18.90
	20MHz, 16QAM			17.812	18.76
	30MHz, BPSK	75/0		26.793	28.31
	30MHz, QPSK			26.750	28.36
	30MHz, 16QAM			26.775	28.35
	40MHz, BPSK	100/0		35.689	37.48
	40MHz, QPSK			35.651	37.34
	40MHz, 16QAM			35.816	37.72
	50MHz, BPSK	128/0		45.629	47.85
	50MHz, QPSK			45.844	47.71
	50MHz, 16QAM			45.711	47.60
	60MHz, BPSK	162/0		57.819	60.43
	60MHz, QPSK			57.826	60.20
	60MHz, 16QAM			57.601	60.23
	70MHz, BPSK	180/0		64.495	67.37
	70MHz, QPSK			64.413	67.14
	70MHz, 16QAM			64.120	67.12
	80MHz, BPSK	216/0		77.132	80.51
	80MHz, QPSK			77.020	80.42
	80MHz, 16QAM			77.121	80.33
	90MHz, BPSK	243/0		86.484	90.36
	90MHz, QPSK			86.958	90.27
	90MHz, 16QAM			86.934	90.23
	100MHz, BPSK	270/0		96.480	100.3
	100MHz, QPSK			96.442	100.4
	100MHz, 16QAM			96.372	100.8
	100MHz, BPSK	1/0		0.610	1.120

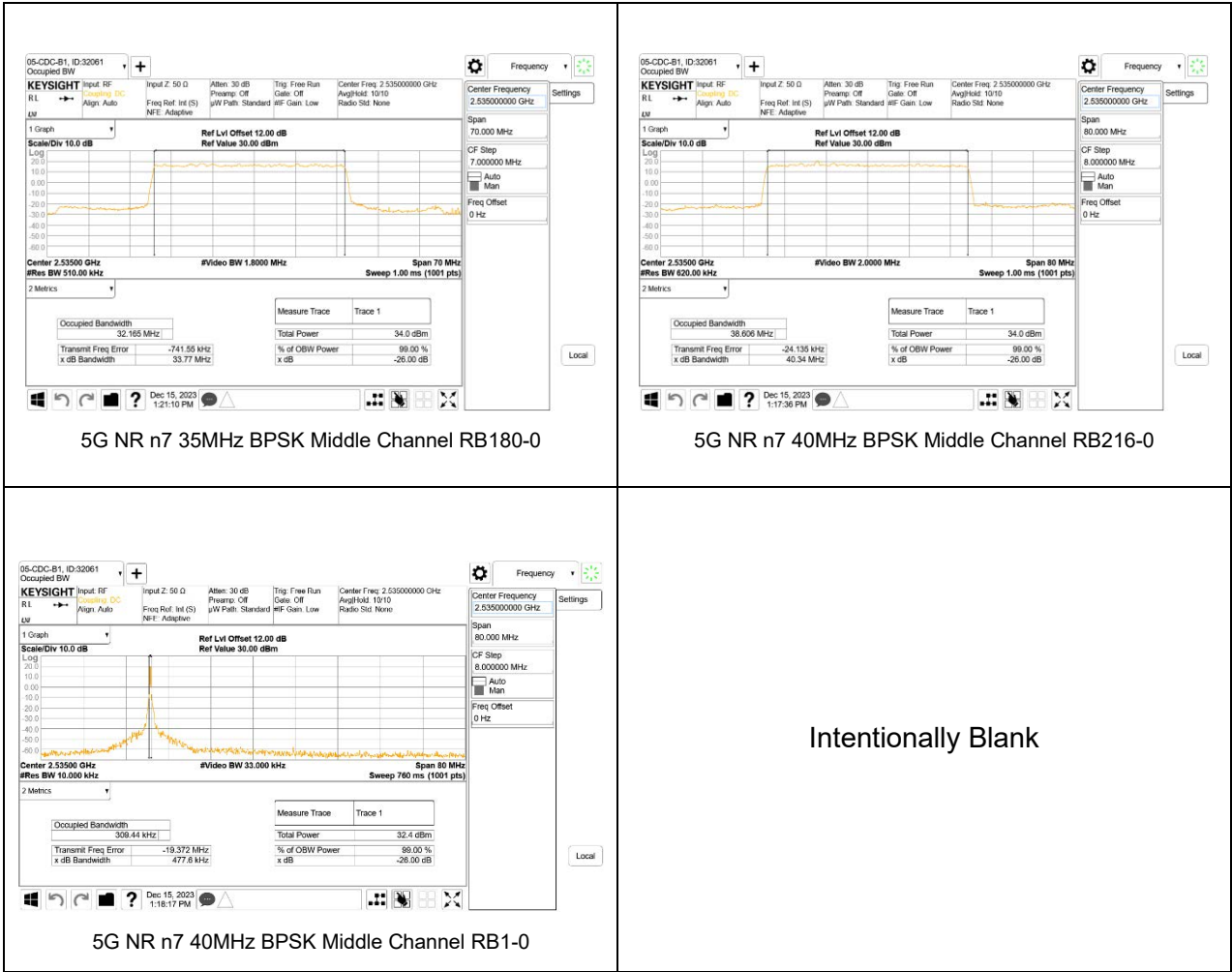
9.1.1. LTE BAND 7 AND 5G NR n7

LTE BAND 7



5G NR n7



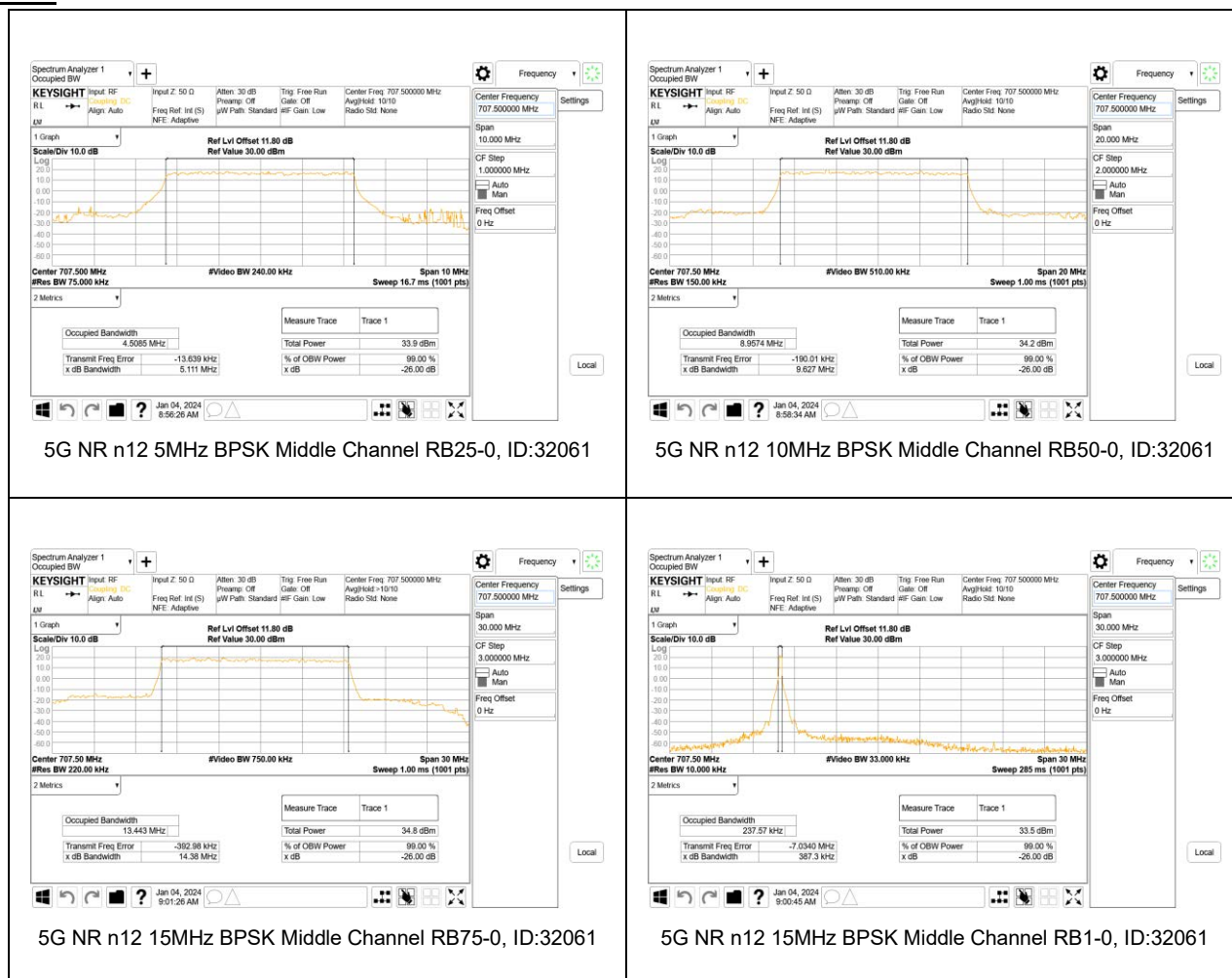


9.1.2. LTE BAND 12 AND 5G NR n12

LTE BAND 12



5G NR n12

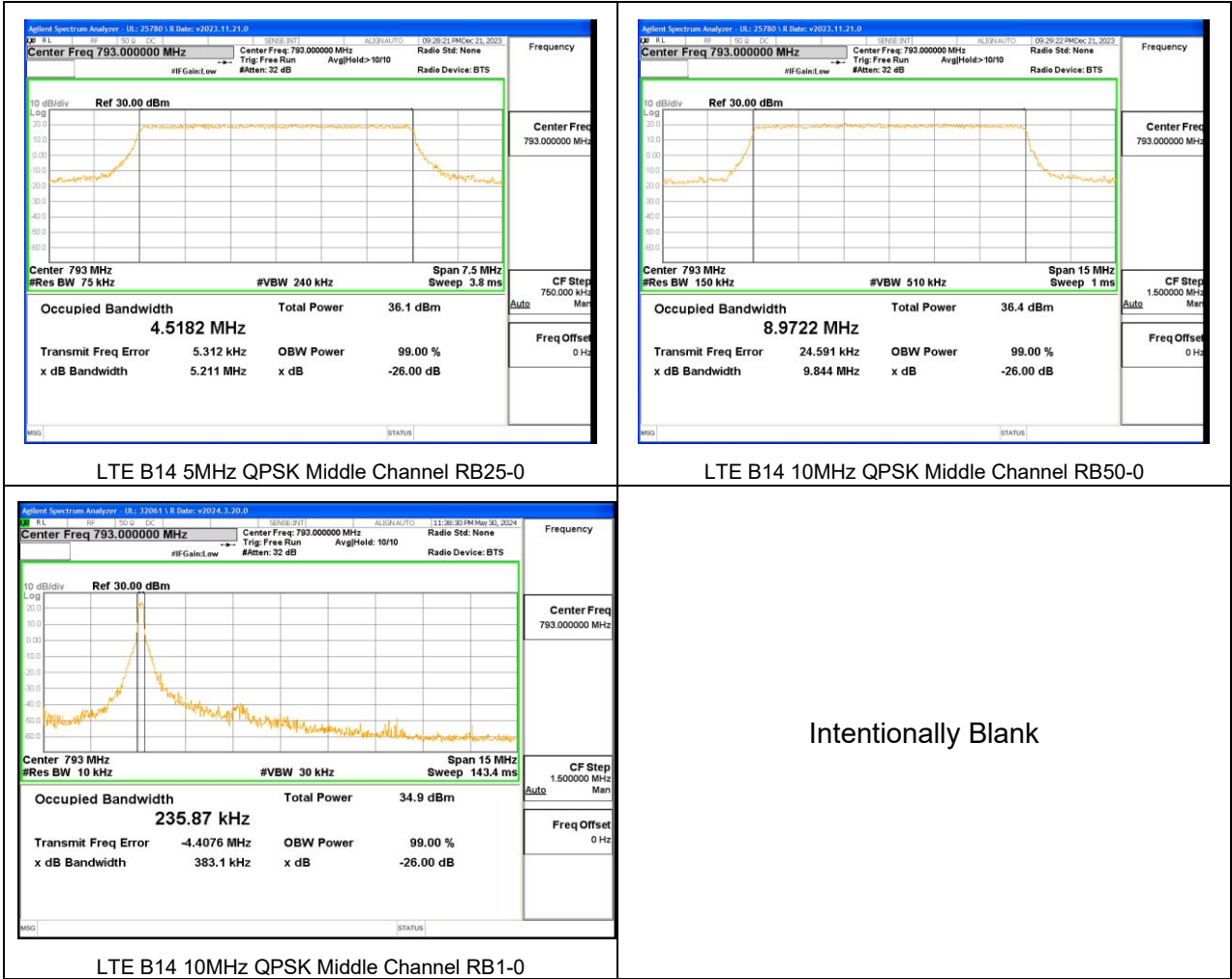


9.1.3. LTE BAND 13

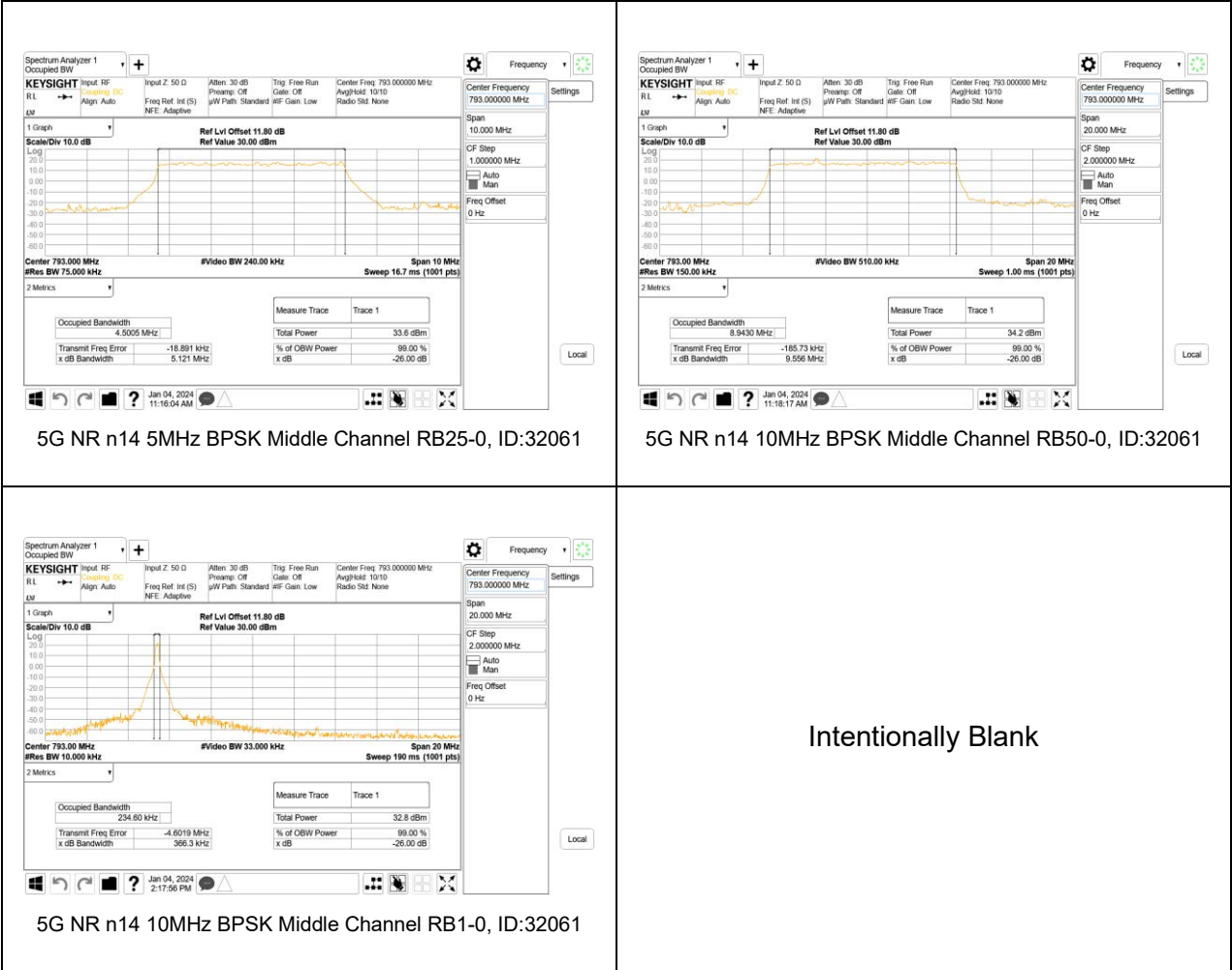


9.1.4. LTE BAND 14 AND 5G NR n14

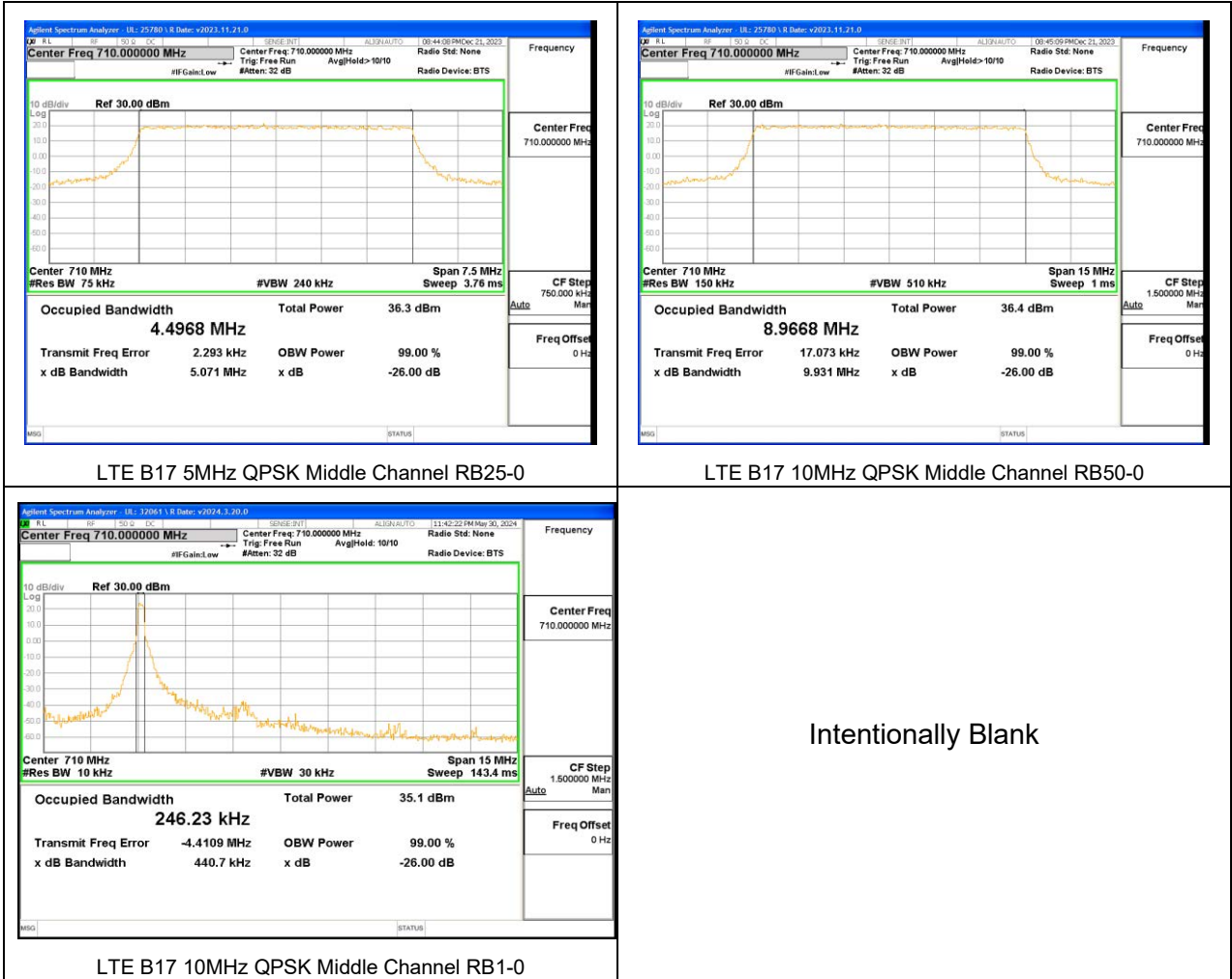
LTE BAND 14



5G NR n14



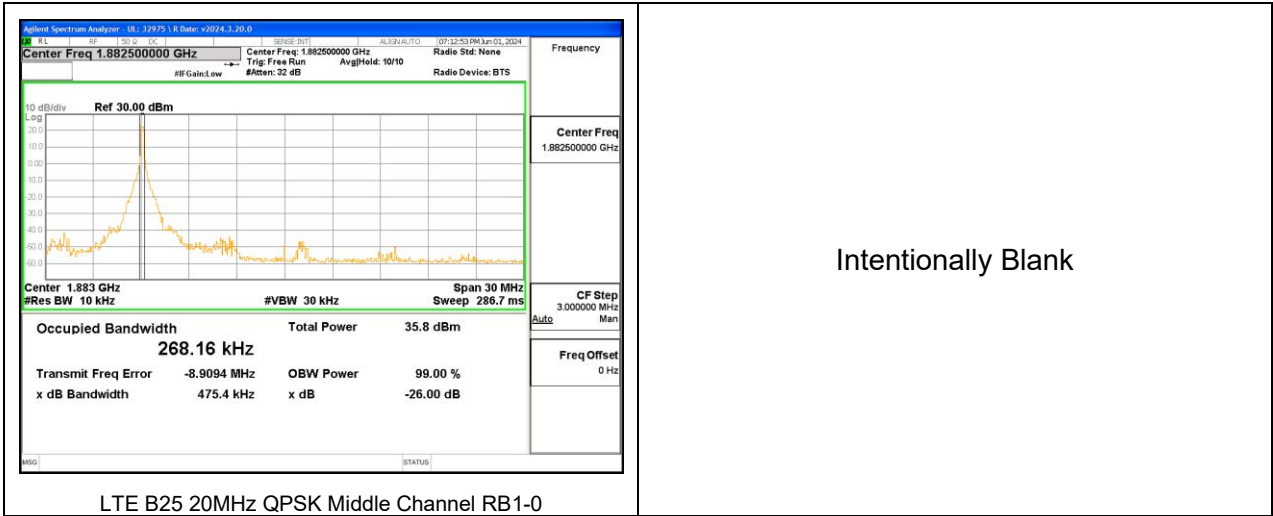
9.1.5. LTE BAND 17



9.1.6. LTE BAND 25 AND 5G NR n25

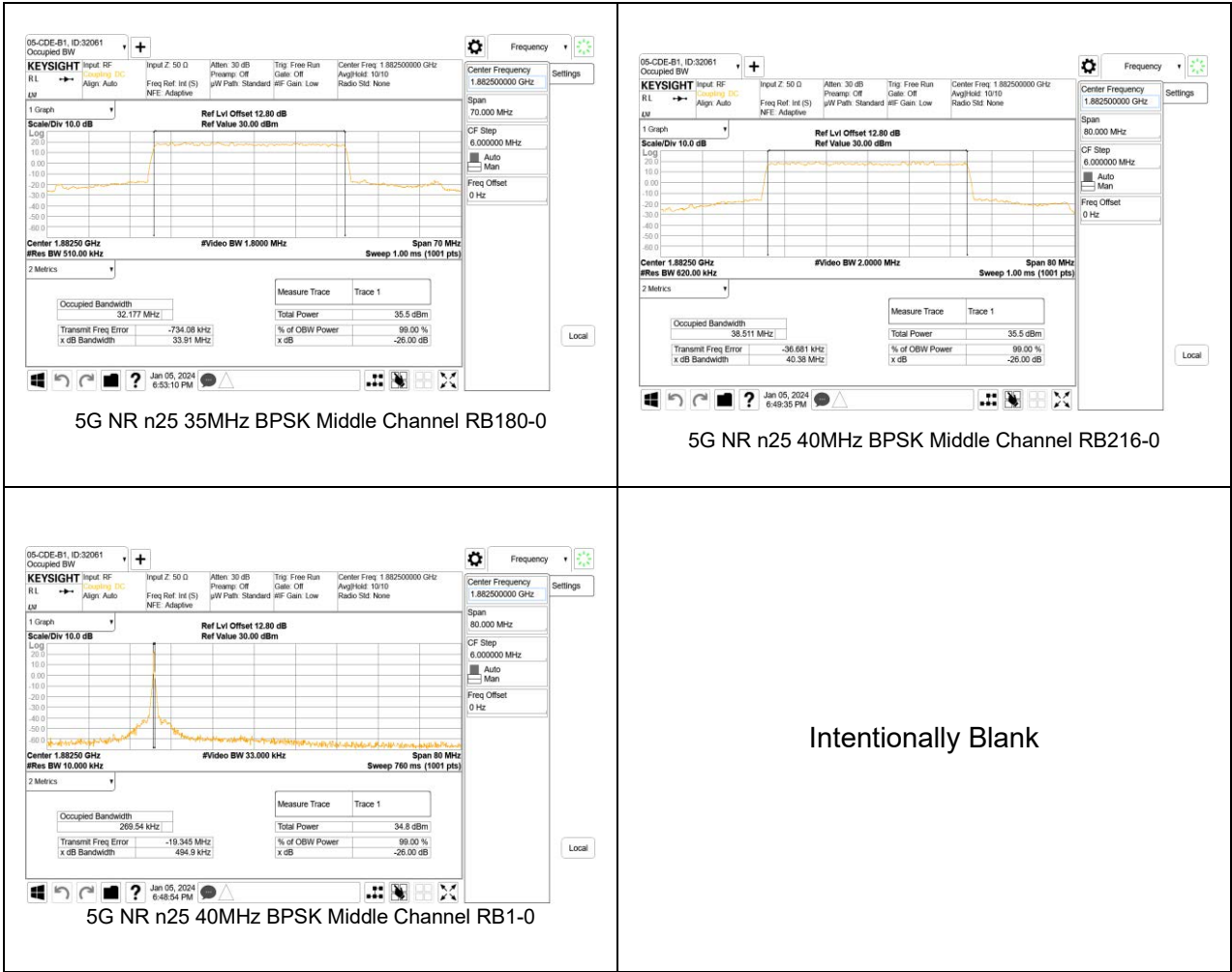
LTE BAND 25





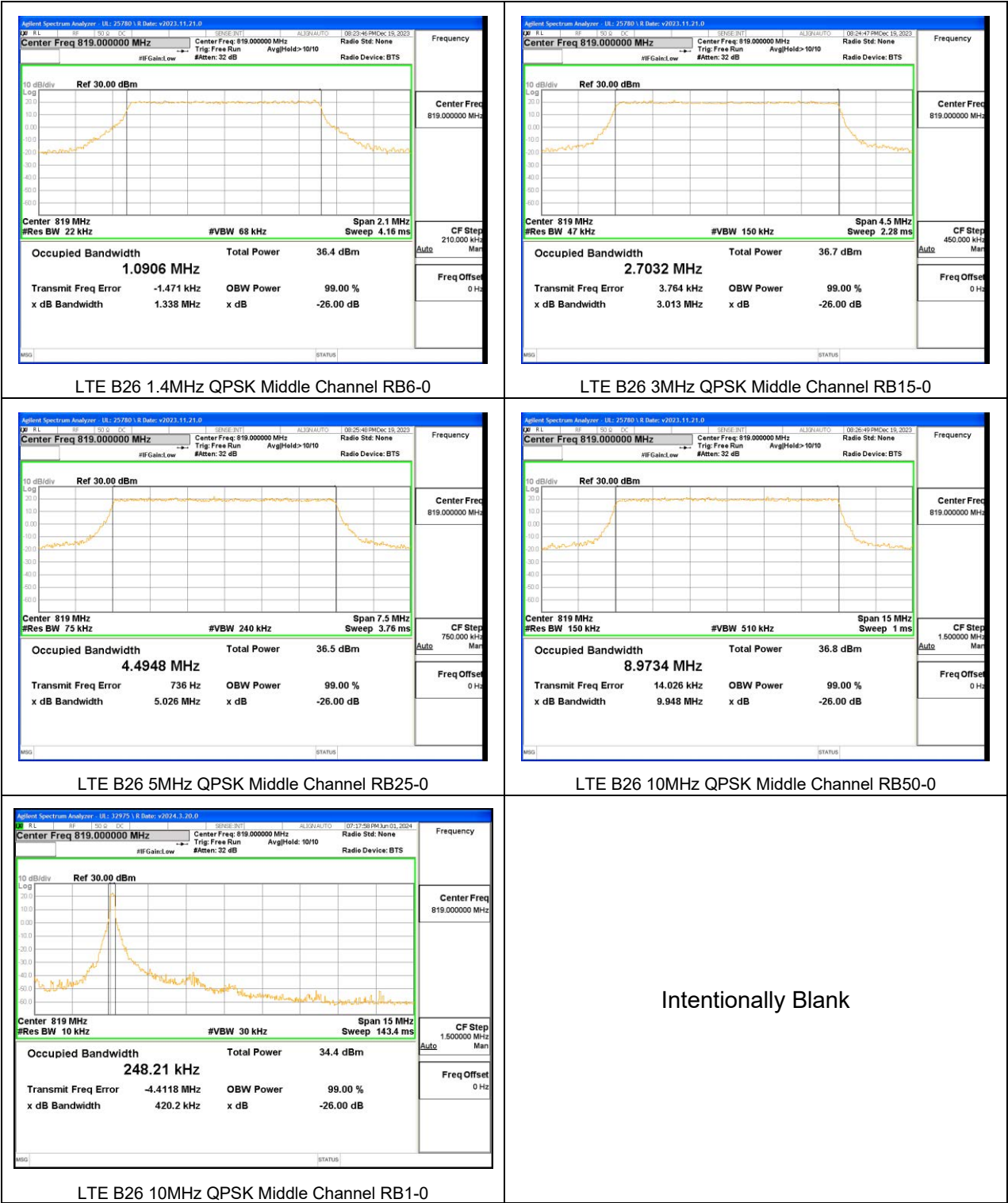
5G NR n25



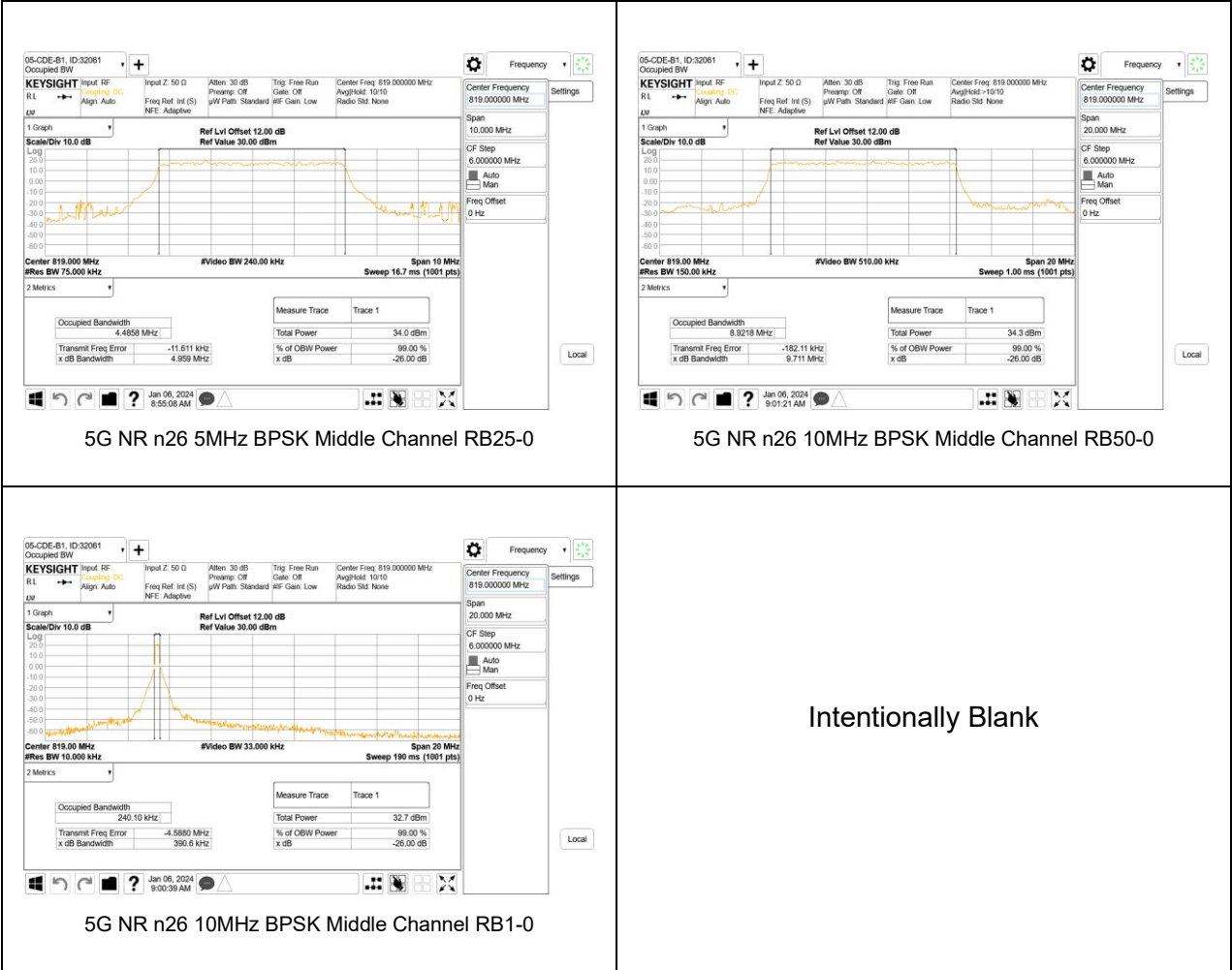


9.1.7. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

LTE BAND 26



5G NR n26



9.1.8. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

LTE BAND 26



5G NR n26

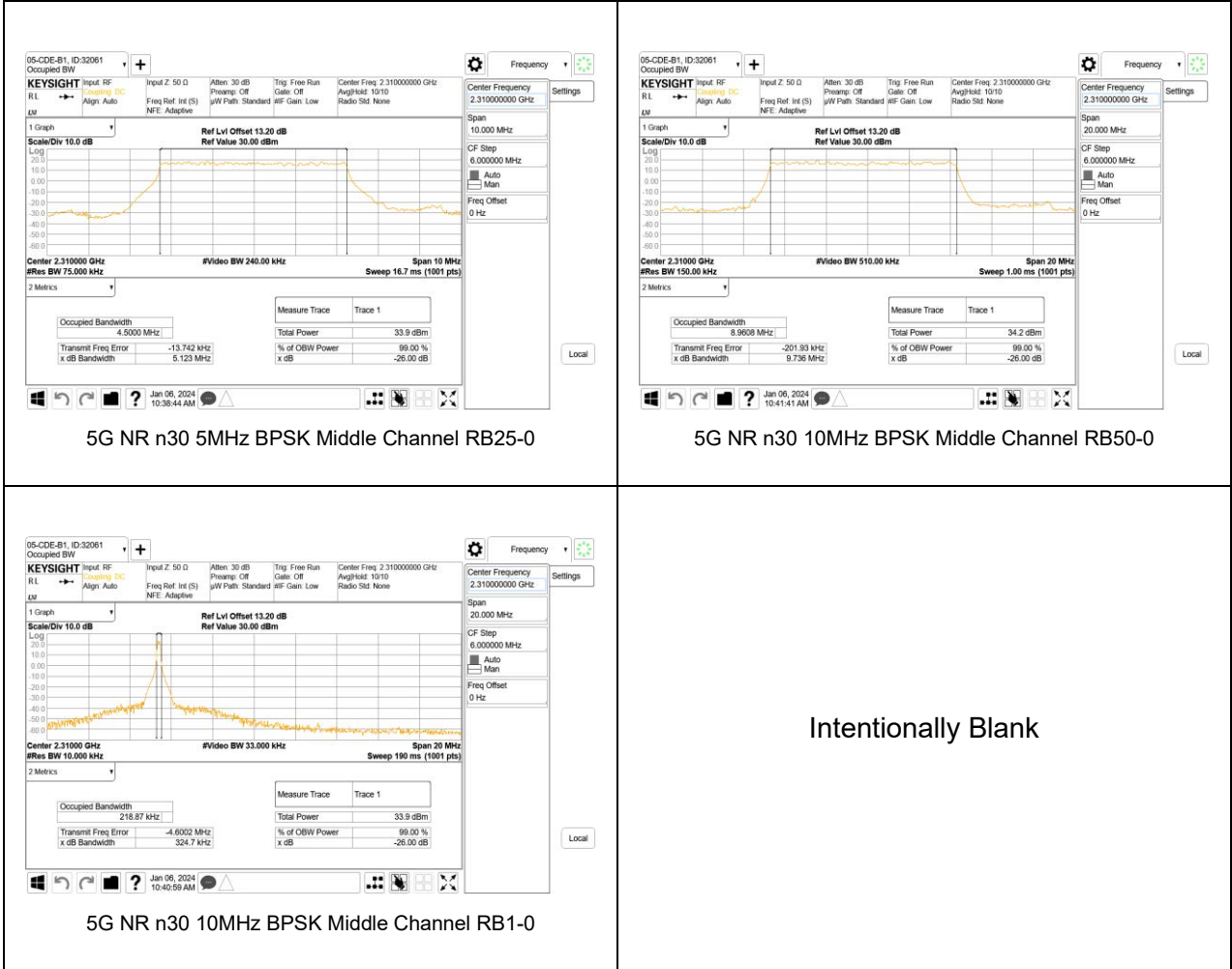


9.1.9. LTE BAND 30 AND 5G NR n30

LTE BAND 30

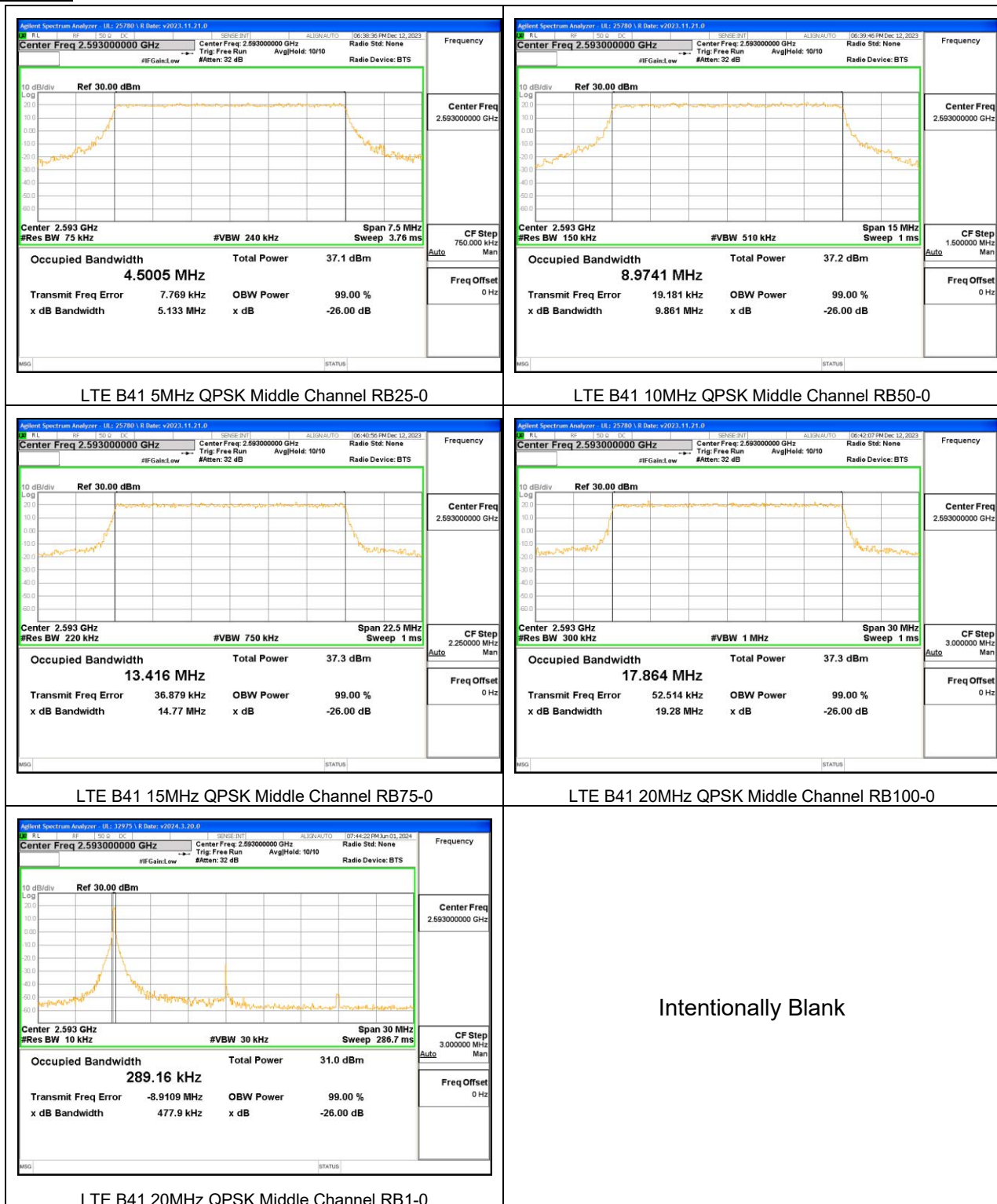


5G NR n30



9.1.10. LTE BAND 41 AND 5G NR n41

LTE BAND 41



5G NR n41





9.1.11. LTE BAND 66 AND 5G NR n66

LTE BAND 66



