



TEST REPORT

Report Number. : 13571607-E8V3

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

Model : A2482

Brand : APPLE

FCC ID : BCG-E3997A

EUT Description : SMARTPHONE

Test Standard(s) : FCC CFR47 PART 2, 22H, 24E, 27, 90S, 90R, AND 96

Date Of Issue:
AUGUST 04, 2021

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



Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/15/2021	Initial Review	Mengistu Mekuria
V2	7/19/2021	Addressed TCB Questions	Mengistu Mekuria
V3	8/04/2021	Updated 6.5 to clarify that conducted tests were selected based on worst case conducted power.	John Thompson

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	9
2. SUMMARY OF TEST RESULTS	10
3. TEST METHODOLOGY	12
4. FACILITIES AND ACCREDITATION	12
5. DECISION RULES AND MEASUREMENT UNCERTAINTY	13
5.1. METROLOGICAL TRACEABILITY	13
5.2. DECISION RULES	13
5.3. MEASUREMENT UNCERTAINTY	13
5.4. SAMPLE CALCULATION	13
6. EQUIPMENT UNDER TEST	14
6.1. DESCRIPTION OF EUT	14
6.2. MAXIMUM OUTPUT POWER	14
6.3. SOFTWARE AND FIRMWARE	26
6.4. MAXIMUM ANTENNA GAIN	26
6.5. WORST-CASE CONFIGURATION AND MODE	27
6.6. DESCRIPTION OF TEST SETUP	30
7. TEST AND MEASUREMENT EQUIPMENT	32
8. RF OUTPUT POWER VERIFICATION	34
8.1. 5G NR n5	36
8.2. LTE BAND 7 AND 5G NR n7	38
8.3. LTE BAND 12 AND 5G NR n12	44
8.4. LTE BAND 13	48
8.5. LTE BAND 14	49
8.6. LTE BAND 17	50
8.7. LTE BAND 25 AND 5G NR n25	51
8.8. LTE BAND 26 (FCC Part 90S)	58
8.9. LTE BAND 26 (FCC Part 22)	60
8.10. LTE BAND 30 AND 5G NR n30	62
8.11. LTE BAND 41 AND 5G NR n41	64
8.12. LTE BAND 48	70

8.13. LTE BAND 66 AND 5G NR n66..... 72

8.14. LTE BAND 71 AND 5G NR n71..... 78

8.15. 5G NR n77 (FCC Part 27 3450-3550MHz) 82

8.16. 5G NR n77 (FCC Part 27 3700-3980MHz) 87

9. CONDUCTED TEST RESULTS..... 92

9.1. OCCUPIED BANDWIDTH..... 92

9.1.1. 5G NR n5 105

9.1.2. LTE BAND 7 AND 5G NR n7..... 106

9.1.3. LTE BAND 12 AND 5G NR n12..... 109

9.1.4. LTE BAND 13..... 111

9.1.5. LTE BAND 14..... 112

9.1.6. LTE BAND 17..... 113

9.1.7. LTE BAND 25 AND 5G NR n25..... 114

9.1.8. LTE BAND 26 (FCC PART 90S)..... 118

9.1.9. LTE BAND 26 (FCC PART 22)..... 119

9.1.10. LTE BAND 30 AND 5G NR n30 120

9.1.11. LTE BAND 41 AND 5G NR n41 122

9.1.12. LTE BAND 48 125

9.1.13. LTE BAND 66 AND 5G NR n66 126

9.1.14. LTE BAND 71 AND 5G NR n71 130

9.1.15. 5G NR n77 (FCC Part 27 3450-3550MHz)..... 132

9.1.16. 5G NR n77 (FCC Part 27 3700-3980MHz)..... 134

9.2. EMISSION MASK AND ADJACENT CHANNEL POWER..... 136

9.2.1. 5G NR n5 EMISSION MASK..... 138

9.2.2. LTE BAND 7 AND 5G NR n7 EMISSION MASK 141

9.2.3. LTE BAND 12 AND 5G NR n12 EMISSION MASK 164

9.2.4. LTE BAND 13 EMISSION MASK..... 176

9.2.5. LTE BAND 14 EMISSION MASK..... 179

9.2.6. LTE BAND 17 EMISSION MASK..... 182

9.2.7. LTE BAND 25 AND 5G NR n25 EMISSION MASK 185

9.2.8. LTE BAND 26 EMISSION MASK (FCC PART 90S) 195

9.2.9. LTE BAND 26 EMISSION MASK (FCC PART 22)..... 198

9.2.10. LTE BAND 30 AND 5G NR n30 EMISSION MASK..... 201

9.2.11. LTE BAND 41 AND 5G NR n41 EMISSION MASK..... 206

9.2.12. LTE BAND 48 EMISSION MASK AND ADJACENT CHANNEL POWER..... 225

9.2.13. LTE BAND 66 AND 5G NR n66 EMISSION MASK..... 238

9.2.14. LTE BAND 71 AND 5G NR n71 EMISSION MASK..... 248

9.2.15. 5G NR n77 EMISSION MASK (FCC Part 27 3450-3550MHz)..... 261

9.2.16. 5G NR n77 EMISSION MASK (FCC Part 27 3700-3980MHz)..... 275

9.3. OUT OF BAND EMISSIONS 290

9.3.1. 5G NR n5 291

9.3.2. LTE BAND 7 AND 5G NR n7..... 294

9.3.3. LTE BAND 12 AND 5G NR n12..... 301

9.3.4. LTE BAND 13..... 305

9.3.5. LTE BAND 14..... 306

9.3.6. LTE BAND 17..... 307

9.3.7. LTE BAND 25 AND 5G NR n25..... 309

9.3.8. LTE BAND 26 (FCC PART 90S)..... 317

9.3.9. LTE BAND 26 (FCC PART 22)..... 319

9.3.10. LTE BAND 30 AND 5G NR n30 322

9.3.11. LTE BAND 41 AND 5G NR n41 326

9.3.12. LTE BAND 48 333

9.3.13. LTE BAND 66 AND 5G NR n66 338

9.3.14. LTE BAND 71 AND 5G NR n71 345

9.3.15. 5G NR n77 (FCC Part 27 3450-3550MHz)..... 350

9.3.16. 5G NR n77 (FCC Part 27 3700-3980MHz)..... 355

9.4. FREQUENCY STABILITY 360

9.4.1. 5G NR n5 361

9.4.2. LTE BAND 7 AND 5G NR n7..... 362

9.4.3. LTE BAND 12 AND 5G NR n12..... 364

9.4.4. LTE BAND 13..... 366

9.4.5. LTE BAND 14..... 367

9.4.6. LTE BAND 17..... 368

9.4.7. LTE BAND 25 AND 5G NR n25..... 369

9.4.8. LTE BAND 26 (FCC PART 90S)..... 371

9.4.9. LTE BAND 26 (FCC PART 22)..... 372

9.4.10. LTE BAND 30 AND 5G NR n30 373

9.4.11. LTE BAND 41 AND 5G NR n41 375

9.4.12.	LTE BAND 48	377
9.4.13.	LTE BAND 66 AND 5G NR n66	378
9.4.14.	LTE BAND 71 AND 5G NR n71	380
9.4.15.	5G NR n77 (FCC Part 27 3450-3550MHz).....	382
9.4.16.	5G NR n77 (FCC Part 27 3700-3980MHz).....	383
9.5.	PEAK-TO-AVERAGE POWER RATIO	384
9.5.1.	5G NR n5	385
9.5.2.	LTE BAND 7 AND 5G NR n7.....	387
9.5.3.	LTE BAND 12 AND 5G NR n12.....	392
9.5.4.	LTE BAND 13.....	395
9.5.5.	LTE BAND 14.....	396
9.5.6.	LTE BAND 17.....	397
9.5.7.	LTE BAND 25 AND 5G NR n25.....	398
9.5.8.	LTE BAND 26 (FCC PART 90S).....	404
9.5.9.	LTE BAND 26 (FCC PART 22).....	406
9.5.10.	LTE BAND 30 AND 5G NR n30	408
9.5.11.	LTE BAND 41 AND 5G NR n41	410
9.5.12.	LTE BAND 48	411
9.5.13.	LTE BAND 66 AND 5G NR n66	412
9.5.14.	LTE BAND 71 AND 5G NR n71	417
9.5.15.	5G NR n77 (FCC Part 27 3450-3550MHz).....	421
9.5.16.	5G NR n77 (FCC Part 27 3700-3980MHz).....	422
10.	RADIATED TEST RESULTS.....	423
10.1.	Example Plot	424
10.2.	FIELD STRENGTH OF SPURIOUS RADIATION, Ant 1.....	426
10.2.1.	5G NR n5.....	427
10.2.2.	LTE BAND 7 AND 5G NR n7	428
10.2.3.	LTE BAND 12 AND 5G NR n12	430
10.2.4.	LTE BAND 13	432
10.2.5.	LTE BAND 14	433
10.2.6.	LTE BAND 17	434
10.2.7.	LTE BAND 25 AND 5G NR n25	435
10.2.8.	LTE BAND 26 (FCC PART 90S).....	437
10.2.9.	LTE BAND 26 (FCC PART 22)	438

10.2.10. LTE BAND 30 AND 5G NR n30 439

10.2.11. LTE BAND 41 AND 5G NR n41 441

10.2.12. LTE BAND 66 AND 5G NR n66 443

10.2.13. LTE BAND 71 AND 5G NR n71 445

10.3. FIELD STRENGTH OF SPURIOUS RADIATION, Ant 2..... 447

10.3.1. 5G NR n5..... 448

10.3.2. LTE BAND 7 AND 5G NR n7 449

10.3.3. LTE BAND 12 AND 5G NR n12 451

10.3.4. LTE BAND 13 453

10.3.5. LTE BAND 14 454

10.3.6. LTE BAND 17 455

10.3.7. LTE BAND 25 AND 5G NR n25 456

10.3.8. LTE BAND 26 (FCC PART 90S)..... 458

10.3.9. LTE BAND 26 (FCC PART 22) 459

10.3.10. LTE BAND 30 AND 5G NR n30 460

10.3.11. LTE BAND 41 AND 5G NR n41 462

10.3.12. LTE BAND 66 AND 5G NR n66 464

10.3.13. LTE BAND 71 AND 5G NR n71 466

10.4. FIELD STRENGTH OF SPURIOUS RADIATION, Ant 3..... 468

10.4.1. LTE BAND 7 AND 5G NR n7 469

10.4.2. LTE BAND 25 AND 5G NR n25 471

10.4.3. LTE BAND 30 AND 5G NR n30 473

10.4.4. LTE BAND 41 AND 5G NR n41 475

10.4.5. LTE BAND 66 AND 5G NR n66 477

10.5. FIELD STRENGTH OF SPURIOUS RADIATION, Ant 4..... 479

10.5.1. LTE BAND 7 AND 5G NR n7 480

10.5.2. LTE BAND 25 AND 5G NR n25 482

10.5.3. LTE BAND 30 AND 5G NR n30 484

10.5.4. LTE BAND 41 AND 5G NR n41 486

10.5.5. LTE BAND 48 488

10.5.6. 5G NR n77 (FCC Part 27 3450-3550MHz)..... 491

10.5.7. 5G NR n77 (FCC Part 27 3700-3980MHz)..... 492

10.6. FIELD STRENGTH OF SPURIOUS RADIATION, Ant 7..... 493

10.6.1. LTE BAND 48 494

10.6.2.	5G NR n77 (FCC Part 27 3450-3550MHz).....	495
10.6.3.	5G NR n77 (FCC Part 27 3700-3980MHz).....	496
10.7.	FIELD STRENGTH OF SPURIOUS RADIATION, Ant 8.....	497
10.7.1.	LTE BAND 48.....	498
10.7.2.	5G NR n77 (FCC Part 27 3450-3550MHz).....	499
10.7.3.	5G NR n77 (FCC Part 27 3700-3980MHz).....	500
10.8.	FIELD STRENGTH OF SPURIOUS RADIATION, Ant 9.....	501
10.8.1.	LTE BAND 48.....	502
10.8.2.	5G NR n77 (FCC Part 27 3450-3550MHz).....	503
10.8.3.	5G NR n77 (FCC Part 27 3700-3980MHz).....	504
11.	SETUP PHOTOS.....	505

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A2482
Brand	APPLE
FCC ID	BCG-E3997A
EUT Description	SMARTPHONE
Serial Number	CQF9R4NQNJ (Conducted) AND XWGGFJ25JV (Radiated)
Sample Receipt Date	FEBRUARY 19, 2021
Date Tested	FEBRUARY 19, 2021 to JUNE 10, 2021
Applicable Standards	FCC CFR47 2, 22H, 24E, 27, 90S, 90R, AND 96
Test Results	COMPLIES

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

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

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

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

2. SUMMARY OF TEST RESULTS

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

Requirement Description	Band	Requirement Clause Number (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	
Equivalent Isotropic Radiated	2, 25	24.232 (c)	Complies	
	4, 66	27.50 (d) (4)	Complies	
	30	27.50 (a) (3)	Complies	
	7, 41	27.50 (h) (2)	Complies	
	48	96.41 (b)	Complies	
	71	27.50 (c) (10)	Complies	
	77	96.41 (b), 27.50 (j) (3), (k) (3)	Complies	

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

3. TEST METHODOLOGY

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

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

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0, 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
<input checked="" type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, California, USA	US0104	2324A	208313
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, California, USA	US0104	22541	208313
<input type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, California, USA	US0104	2324B	208313

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

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

5.2. DECISION RULES

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

5.3. MEASUREMENT UNCERTAINTY

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

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

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

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

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

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

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

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.

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

5G NR n5

Part 22H (Ant 1)								
ERP Limit (W)		7.00						
Antenna Gain (dBi)		-4.50						
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	25.70	19.05	0.080	4459	4M46G7W
	QPSK			25.65	19.00	0.079	4469	4M47G7W
	16QAM			25.19	18.54	0.071	4482	4M48D7W
10.0	BPSK	829.0	844.0	25.70	19.05	0.080	8949	8M95G7W
	QPSK			25.65	19.00	0.079	8941	8M94G7W
	16QAM			25.33	18.68	0.074	8923	8M92D7W
15.0	BPSK	831.5	841.5	25.56	18.91	0.078	13403	13M4G7W
	QPSK			25.70	19.05	0.080	13386	13M4G7W
	16QAM			24.94	18.29	0.067	13364	13M4D7W
20.0	BPSK	834.0	839.0	25.62	18.97	0.079	17872	17M9G7W
	QPSK			25.70	19.05	0.080	17855	17M9G7W
	16QAM			24.93	18.28	0.067	17781	17M8D7W

LTE BAND 7

Part 27 (Ant 3)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		1.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2502.5	2567.5	25.20	27.10	0.513	4501	4M50G7W
	16QAM			24.30	26.20	0.417	4497	4M50D7W
10.0	QPSK	2505.0	2565.0	25.20	27.10	0.513	8955	8M96G7W
	16QAM			24.33	26.23	0.420	8937	8M94D7W
15.0	QPSK	2507.5	2562.5	25.20	27.10	0.513	13401	13M4G7W
	16QAM			24.70	26.60	0.457	13440	13M4D7W
20.0	QPSK	2510.0	2560.0	25.20	27.10	0.513	17864	17M9G7W
	16QAM			24.79	26.69	0.466	17890	17M9D7W

5G NR n7

Part 27 (Ant 3)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		1.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	2502.5	2567.5	25.10	27.00	0.501	4470	4M47G7W
	QPSK			25.20	27.10	0.513	4468	4M47G7W
	16QAM			24.07	25.97	0.395	4485	4M49D7W
10.0	BPSK	2505.0	2565.0	25.20	27.10	0.513	8939	8M94G7W
	QPSK			25.14	27.04	0.506	8910	8M91G7W
	16QAM			23.98	25.88	0.387	8942	8M94D7W
15.0	BPSK	2507.5	2562.5	25.04	26.94	0.494	13409	13M4G7W
	QPSK			25.20	27.10	0.513	13406	13M4G7W
	16QAM			23.95	25.85	0.385	13421	13M4D7W
20.0	BPSK	2510.0	2560.0	25.09	26.99	0.500	17851	17M9G7W
	QPSK			25.20	27.10	0.513	17874	17M9G7W
	16QAM			24.13	26.03	0.401	17819	17M8D7W
25.0	BPSK	2512.5	2557.5	23.08	24.98	0.315	22845	22M8G7W
	QPSK			23.20	25.10	0.324	22831	22M8G7W
	16QAM			22.20	24.10	0.257	22850	22M9D7W
30.0	BPSK	2515.0	2555.0	23.06	24.96	0.313	28563	28M6G7W
	QPSK			23.20	25.10	0.324	28519	28M5G7W
	16QAM			22.28	24.18	0.262	28485	28M5D7W
40.0	BPSK	2520.0	2550.0	22.96	24.86	0.306	38625	38M6G7W
	QPSK			23.20	25.10	0.324	38514	38M5G7W
	16QAM			22.21	24.11	0.258	38499	38M5D7W

LTE BAND 12

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-5.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	699.7	715.3	25.70	18.05	0.064	1090	1M09G7W
	16QAM			25.11	17.46	0.056	1079	1M08D7W
3.0	QPSK	700.5	714.5	25.70	18.05	0.064	2689	2M69G7W
	16QAM			25.11	17.46	0.056	2680	2M68D7W
5.0	QPSK	701.5	713.5	25.70	18.05	0.064	4493	4M49G7W
	16QAM			25.26	17.61	0.058	4497	4M50D7W
10.0	QPSK	704.0	711.0	25.70	18.05	0.064	8960	8M96G7W
	16QAM			25.18	17.53	0.057	8920	8M92D7W

5G NR n12

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-5.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	701.5	713.5	25.70	18.05	0.064	4443	4M44G7W
	QPSK			25.65	18.00	0.063	4468	4M47G7W
	16QAM			24.64	16.99	0.050	4479	4M48D7W
10.0	BPSK	704.0	711.0	25.68	18.03	0.064	8949	8M95G7W
	QPSK			25.70	18.05	0.064	8952	8M95G7W
	16QAM			24.89	17.24	0.053	8949	8M95D7W
15.0	BPSK	706.5	708.5	25.42	17.77	0.060	13389	13M4G7W
	QPSK			25.70	18.05	0.064	13406	13M4G7W
	16QAM			24.75	17.10	0.051	13378	13M4D7W

LTE BAND 13

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-4.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	779.5	784.5	25.70	19.45	0.088	4513	4M51G7W
	16QAM			25.22	18.97	0.079	4493	4M49D7W
10.0	QPSK	782.0	782.0	25.70	19.45	0.088	8943	8M94G7W
	16QAM			24.81	18.56	0.072	8925	8M93D7W

LTE BAND 14

Part 90R (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-4.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	790.5	795.5	25.70	19.45	0.088	4505	4M51G7W
	16QAM			25.29	19.04	0.080	4494	4M49D7W
10.0	QPSK	793.0	793.0	25.70	19.45	0.088	8948	8M95G7W
	16QAM			25.15	18.90	0.078	8934	8M93D7W

LTE BAND 17

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-5.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	706.5	713.5	25.70	18.05	0.064	4524	4M52G7W
	16QAM			25.27	17.62	0.058	4485	4M49D7W
10.0	QPSK	709.0	711.0	25.70	18.05	0.064	8968	8M97G7W
	16QAM			25.16	17.51	0.056	8940	8M94D7W

LTE BAND 25

Part 24 (Ant 3)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-0.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	25.20	24.40	0.275	1093	1M09G7W
	16QAM			24.60	23.80	0.240	1079	1M08D7W
3.0	QPSK	1851.5	1913.5	25.20	24.40	0.275	2693	2M69G7W
	16QAM			24.36	23.56	0.227	2687	2M69D7W
5.0	QPSK	1852.5	1912.5	25.20	24.40	0.275	4505	4M51G7W
	16QAM			24.39	23.59	0.229	4489	4M49D7W
10.0	QPSK	1855.0	1910.0	25.20	24.40	0.275	8979	8M98G7W
	16QAM			24.31	23.51	0.224	8933	8M93D7W
15.0	QPSK	1857.5	1907.5	25.20	24.40	0.275	13416	13M4G7W
	16QAM			24.64	23.84	0.242	13412	13M4D7W
20.0	QPSK	1860.0	1905.0	25.20	24.40	0.275	17888	17M9G7W
	16QAM			24.56	23.76	0.238	17908	17M9D7W

5G NR n25

Part 24 (Ant 3)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-0.80						
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	25.20	24.40	0.275	4490	4M49G7W
	QPSK			25.15	24.35	0.272	4486	4M49G7W
	16QAM			24.22	23.42	0.220	4498	4M50D7W
10.0	BPSK	1855.0	1910.0	25.18	24.38	0.274	8949	8M95G7W
	QPSK			25.20	24.40	0.275	8975	8M98G7W
	16QAM			24.29	23.49	0.223	8976	8M98D7W
15.0	BPSK	1857.5	1907.5	25.19	24.39	0.275	13455	13M5G7W
	QPSK			25.20	24.40	0.275	13444	13M4G7W
	16QAM			24.36	23.56	0.227	13409	13M4D7W
20.0	BPSK	1860.0	1905.0	25.20	24.40	0.275	17977	18M0G7W
	QPSK			25.12	24.32	0.270	17931	17M9G7W
	16QAM			24.52	23.72	0.236	17875	17M9D7W
25.0	BPSK	1862.5	1902.5	23.20	22.40	0.174	22817	22M8G7W
	QPSK			23.17	22.37	0.173	22869	22M9G7W
	16QAM			22.55	21.75	0.150	22825	22M8D7W
30.0	BPSK	1865.0	1900.0	23.16	22.36	0.172	28517	28M5G7W
	QPSK			23.20	22.40	0.174	28487	28M5G7W
	16QAM			22.55	21.75	0.150	28602	28M6D7W
40.0	BPSK	1870.0	1895.0	23.20	22.40	0.174	38464	38M5G7W
	QPSK			22.58	21.78	0.151	38630	38M6G7W
	16QAM			22.21	21.41	0.138	38529	38M5D7W

LTE BAND 26 (FCC Part 90S)

Part 90S (Ant 1)							
Conducted Limit (W)		100.00					
Antenna Gain (dBi)		-4.50					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.70	0.372	1080	1M08G7W
	16QAM			25.13	0.326	1076	1M08D7W
3.0	QPSK	815.5	822.5	25.70	0.372	2691	2M69G7W
	16QAM			25.19	0.330	2674	2M67D7W
5.0	QPSK	816.5	821.5	25.70	0.372	4482	4M48G7W
	16QAM			25.26	0.336	4474	4M47D7W
10.0	QPSK	819.0	819.0	25.70	0.372	8957	8M96G7W
	16QAM			25.18	0.330	8944	8M94D7W

LTE BAND 26 (FCC Part 22)

Part 22 (Ant 1)								
ERP Limit (W)		7.00						
Antenna Gain (dBi)		-4.50						
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	19.05	0.080	1083	1M08G7W
	16QAM			25.08	18.43	0.070	1090	1M09D7W
3.0	QPSK	825.5	847.5	25.70	19.05	0.080	2695	2M70G7W
	16QAM			25.12	18.47	0.070	2676	2M68D7W
5.0	QPSK	826.5	846.5	25.70	19.05	0.080	4474	4M47G7W
	16QAM			25.23	18.58	0.072	4488	4M49D7W
10.0	QPSK	829.0	844.0	25.70	19.05	0.080	8966	8M97G7W
	16QAM			25.14	18.49	0.071	8957	8M96D7W

LTE BAND 30

Part 27 (Ant 3)								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)		1.80						
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	21.60	23.40	0.219	4498	4M50G7W
	16QAM			21.59	23.39	0.218	4481	4M48D7W
10.0	QPSK	2310.0	2310.0	21.58	23.38	0.218	8947	8M95G7W
	16QAM			21.58	23.38	0.218	8953	8M95D7W

5G NR n30

Part 27 (Ant 3)								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)		1.80						
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	21.60	23.40	0.219	4516	4M52G7W
	QPSK			21.58	23.38	0.218	4490	4M49G7W
	16QAM			21.60	23.40	0.219	4491	4M49D7W
10.0	BPSK	2310.0	2310.0	21.53	23.33	0.215	8952	8M95G7W
	QPSK			21.59	23.35	0.216	8935	8M94G7W
	16QAM			21.58	23.38	0.218	8961	8M96D7W

LTE BAND 41

Part 27 (Ant 3)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		1.90						
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	26.50	28.40	0.692	4493	4M49G7W
	16QAM			25.58	27.48	0.560	4484	4M48D7W
10.0	QPSK	2501.0	2685.0	26.50	28.40	0.692	8944	8M94G7W
	16QAM			25.61	27.51	0.564	8930	8M93D7W
15.0	QPSK	2503.5	2682.5	26.50	28.40	0.692	13417	13M4G7W
	16QAM			25.58	27.48	0.560	13435	13M4D7W
20.0	QPSK	2506.0	2680.0	26.50	28.40	0.692	17900	17M9G7W
	16QAM			25.62	27.52	0.565	17842	17M8D7W

5G NR n41

Part 27 (Ant 2)								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		0.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	2506.0	2680.0	27.40	27.80	0.603	17830	17M8G7W
	QPSK			27.70	28.10	0.646	17875	17M9G7W
	16QAM			26.32	26.72	0.470	17804	17M8D7W
30.0	BPSK	2511.0	2675.0	27.70	28.10	0.646	26781	26M8G7W
	QPSK			27.69	28.09	0.644	26817	26M8G7W
	16QAM			26.76	27.16	0.520	26835	26M8D7W
40.0	BPSK	2516.0	2670.0	27.54	27.94	0.622	35699	35M7G7W
	QPSK			27.70	28.10	0.646	35825	35M8G7W
	16QAM			26.45	26.85	0.484	35679	35M7D7W
50.0	BPSK	2521.0	2665.0	27.66	28.06	0.640	45791	45M8G7W
	QPSK			27.70	28.10	0.646	45700	45M7G7W
	16QAM			26.66	27.06	0.508	45797	45M8D7W
60.0	BPSK	2526.0	2660.0	27.68	28.08	0.643	57907	57M9G7W
	QPSK			27.70	28.10	0.646	57962	58M0G7W
	16QAM			26.80	27.20	0.525	57826	57M8D7W
80.0	BPSK	2536.0	2650.0	27.70	28.10	0.646	77061	77M1G7W
	QPSK			27.67	28.07	0.641	77051	77M1G7W
	16QAM			26.51	26.91	0.491	77216	77M2D7W
90.0	BPSK	2541.0	2645.0	27.63	28.03	0.635	86999	87M0G7W
	QPSK			27.70	28.10	0.646	87067	87M1G7W
	16QAM			26.76	27.16	0.520	87120	87M1D7W
100.0	BPSK	2546.0	2640.0	27.70	28.10	0.646	96936	96M9G7W
	QPSK			27.56	27.96	0.625	96875	96M9G7W
	16QAM			26.92	27.32	0.540	96634	96M6D7W

LTE BAND 48

Part 96 (Ant 7)								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)		-1.00						
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	3552.5	3697.5	23.48	22.48	0.177	4477	4M48G7W
	16QAM			23.49	22.49	0.178	4480	4M48D7W
10.0	QPSK	3555.0	3695.0	23.47	22.47	0.177	8917	8M92G7W
	16QAM			23.50	22.50	0.178	8924	8M92D7W
15.0	QPSK	3557.5	3692.5	23.48	22.48	0.177	13412	13M4G7W
	16QAM			23.50	22.50	0.178	13469	13M5D7W
20.0	QPSK	3560.0	3690.0	23.50	22.50	0.178	17835	17M8G7W
	16QAM			23.49	22.49	0.177	17832	17M8D7W

LTE BAND 66

Part 27 (Ant 3)								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-1.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.20	23.30	0.214	1080	1M08G7W
	16QAM			24.65	22.75	0.188	1080	1M08D7W
3.0	QPSK	1711.5	1778.5	25.20	23.30	0.214	2685	2M69G7W
	16QAM			24.51	22.61	0.182	2686	2M69D7W
5.0	QPSK	1712.5	1777.5	25.20	23.30	0.214	4496	4M50G7W
	16QAM			24.66	22.76	0.189	4483	4M48D7W
10.0	QPSK	1715.0	1775.0	25.20	23.30	0.214	8960	8M96G7W
	16QAM			24.55	22.65	0.184	8999	9M00D7W
15.0	QPSK	1717.5	1772.5	25.20	23.30	0.214	13425	13M4G7W
	16QAM			24.69	22.79	0.190	13402	13M4D7W
20.0	QPSK	1720.0	1770.0	25.20	23.30	0.214	17817	17M8G7W
	16QAM			24.77	22.87	0.194	17845	17M8D7W

5G NR n66

Part 27 (Ant 3)								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-1.90						
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	25.14	23.24	0.211	4497	4M50G7W
	QPSK			25.20	23.30	0.214	4494	4M49G7W
	16QAM			24.09	22.19	0.166	4484	4M48D7W
10.0	BPSK	1715.0	1775.0	25.14	23.24	0.211	8915	8M92G7W
	QPSK			25.20	23.30	0.214	8922	8M92G7W
	16QAM			24.30	22.40	0.174	8960	8M96D7W
15.0	BPSK	1717.5	1772.5	25.20	23.30	0.214	13390	13M4G7W
	QPSK			25.18	23.28	0.213	13455	13M5G7W
	16QAM			24.16	22.26	0.168	13450	13M5D7W
20.0	BPSK	1720.0	1770.0	25.20	23.30	0.214	17921	17M9G7W
	QPSK			24.98	23.08	0.203	17901	17M9G7W
	16QAM			24.17	22.27	0.169	17915	17M9D7W
30.0	BPSK	1725.0	1765.0	23.07	21.17	0.131	28492	28M5G7W
	QPSK			23.20	21.30	0.135	28438	28M4G7W
	16QAM			22.11	20.21	0.105	28561	28M6D7W
40.0	BPSK	1730.0	1760.0	23.20	21.30	0.135	38440	38M4G7W
	QPSK			23.16	21.26	0.134	38573	38M6G7W
	16QAM			22.29	20.39	0.109	38451	38M5D7W

LTE BAND 71

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-5.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	665.5	695.5	25.70	18.15	0.065	4500	4M50G7W
	16QAM			25.22	17.67	0.058	4494	4M49D7W
10.0	QPSK	668.0	693.0	25.70	18.15	0.065	8933	8M93G7W
	16QAM			25.12	17.57	0.057	8966	8M97D7W
15.0	QPSK	670.5	690.5	25.70	18.15	0.065	13423	13M4G7W
	16QAM			25.11	17.56	0.057	13406	13M4D7W
20.0	QPSK	673.0	688.0	25.70	18.15	0.065	17860	17M9G7W
	16QAM			25.23	17.68	0.059	17871	17M9D7W

5G NR n71

Part 27 (Ant 1)								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-5.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	665.5	695.5	25.69	18.14	0.065	4487	4M49G7W
	QPSK			25.70	18.15	0.065	4477	4M48G7W
	16QAM			25.02	17.47	0.056	4479	4M48D7W
10.0	BPSK	668.0	693.0	25.44	17.89	0.062	8903	8M90G7W
	QPSK			25.70	18.15	0.065	8975	8M98G7W
	16QAM			25.05	17.50	0.056	8880	8M88D7W
15.0	BPSK	670.5	690.5	25.70	18.15	0.065	13389	13M4G7W
	QPSK			25.64	18.09	0.064	13369	13M4G7W
	16QAM			24.52	16.97	0.050	13388	13M4D7W
20.0	BPSK	673.0	688.0	25.70	18.15	0.065	17820	17M8G7W
	QPSK			25.65	18.10	0.065	17899	17M9G7W
	16QAM			24.87	17.32	0.054	17883	17M9D7W

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

Part 27 (Ant 7)								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-3.20						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	3460.0	3540.0	27.70	24.50	0.282	17859	17M9G7W
	QPSK			27.59	24.39	0.275	17896	17M9G7W
	16QAM			26.68	23.48	0.223	17877	17M9D7W
30.0	BPSK	3465.0	3535.0	27.70	24.50	0.282	26769	26M8G7W
	QPSK			27.63	24.43	0.277	26705	26M7G7W
	16QAM			26.90	23.70	0.234	26768	26M8D7W
40.0	BPSK	3470.0	3530.0	27.70	24.50	0.282	35724	35M7G7W
	QPSK			27.70	24.50	0.282	35762	35M8G7W
	16QAM			26.89	23.69	0.234	35768	35M8D7W
50.0	BPSK	3475.0	3525.0	27.70	24.50	0.282	45601	45M6G7W
	QPSK			27.70	24.50	0.282	45616	45M6G7W
	16QAM			26.86	23.66	0.232	45572	45M6D7W
60.0	BPSK	3480.0	3520.0	27.70	24.50	0.282	57749	57M7G7W
	QPSK			27.67	24.47	0.280	57849	57M8G7W
	16QAM			26.84	23.64	0.231	57849	57M8D7W
70.0	BPSK	3485.0	3515.0	27.68	24.48	0.281	63992	64M0G7W
	QPSK			27.70	24.50	0.282	63963	64M0G7W
	16QAM			26.88	23.68	0.233	63963	64M0D7W
80.0	BPSK	3490.0	3510.0	27.70	24.50	0.282	77158	77M2G7W
	QPSK			27.66	24.46	0.279	77021	77M0G7W
	16QAM			26.86	23.66	0.232	77237	77M2D7W
90.0	BPSK	3495.0	3505.0	27.62	24.42	0.277	86590	86M6G7W
	QPSK			27.70	24.50	0.282	86862	86M9G7W
	16QAM			26.94	23.74	0.237	86541	86M5D7W
100.0	BPSK	3500.0	3500.0	27.70	24.50	0.282	96180	96M2G7W
	QPSK			27.69	24.49	0.281	96138	96M1G7W
	16QAM			26.67	23.47	0.222	96423	96M4D7W

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

Part 27 (Ant 7)								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-3.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	3710.0	3970.0	27.56	24.06	0.255	17878	17M9G7W
	QPSK			27.70	24.20	0.263	17833	17M8G7W
	16QAM			26.88	23.38	0.218	17912	17M9D7W
30.0	BPSK	3715.0	3965.0	27.70	24.20	0.263	26741	26M7G7W
	QPSK			27.37	23.87	0.244	26860	26M9G7W
	16QAM			26.94	23.44	0.221	26815	26M8D7W
40.0	BPSK	3720.0	3960.0	27.69	24.19	0.262	35678	35M7G7W
	QPSK			27.70	24.20	0.263	35773	35M8G7W
	16QAM			26.84	23.34	0.216	35765	35M8D7W
50.0	BPSK	3725.0	3955.0	27.70	24.20	0.263	45612	45M6G7W
	QPSK			27.62	24.12	0.258	45555	45M6G7W
	16QAM			26.64	23.14	0.206	45646	45M6D7W
60.0	BPSK	3730.0	3950.0	27.68	24.18	0.262	57762	57M8G7W
	QPSK			27.70	24.20	0.263	57901	57M9G7W
	16QAM			26.77	23.27	0.212	57828	57M8D7W
70.0	BPSK	3735.0	3945.0	27.68	24.18	0.262	64184	64M2G7W
	QPSK			27.70	24.20	0.263	64458	64M5G7W
	16QAM			26.64	23.14	0.206	64237	64M2D7W
80.0	BPSK	3740.0	3940.0	27.69	24.19	0.262	77194	77M2G7W
	QPSK			27.70	24.20	0.263	77007	77M0G7W
	16QAM			26.74	23.24	0.211	77198	77M2D7W
90.0	BPSK	3745.0	3935.0	27.70	24.20	0.263	86683	86M7G7W
	QPSK			27.67	24.17	0.261	86693	86M7G7W
	16QAM			26.62	23.12	0.205	86720	86M7D7W
100.0	BPSK	3750.0	3930.0	27.70	24.20	0.263	96275	96M3G7W
	QPSK			27.67	24.17	0.261	96241	96M2G7W
	16QAM			26.58	23.08	0.203	96294	96M3D7W

6.3. SOFTWARE AND FIRMWARE

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

6.4. MAXIMUM ANTENNA GAIN

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

LTE Bands	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	ANT 3 Antenna Gain (dBi)	ANT 4 Antenna Gain (dBi)	ANT 7 Antenna Gain (dBi)	ANT 8 Antenna Gain (dBi)	ANT 9 Antenna Gain (dBi)
5G NR n5, 824 – 849 MHz	-4.5	-5.7					
LTE Band 7, n7, 2500 – 2570 MHz	-1.6	0.4	1.9	-3.8			
LTE Band 12, 5G NR n12, 699 – 716 MHz	-5.5	-5.9					
LTE Band 13, 777 – 787 MHz	-4.1	-5.9					
LTE Band 14, 788 – 798 MHz	-4.1	-5.9					
LTE Band 17, 704 – 716 MHz	-5.5	-5.9					
LTE Band 25, 5G NR n25, 1850 – 1915 MHz	-3.8	-2.4	-0.8	-2.5			
LTE Band 26, 814 – 849 MHz	-4.5	-5.7					
LTE Band 30, 5G NR n30, 2305 – 2315 MHz	-1.2	-3.8	1.8	-2.3			
LTE Band 41, 5G NR n41, 2496 – 2690 MHz	-1.6	0.4	1.9	-3.8			
LTE Band 48, 3550 – 3700 MHz				-3.3	-1.0	-8.6	-4.4
LTE Band 66, 5G NR n66, 1710 – 1780 MHz	-3.7	-4.0	-1.9	-3.4			
LTE Band 71, 5G NR n71 663 – 698 MHz	-5.4	-6.7					
5G NR n77 3450 – 3550 MHz				-5.0	-3.2	-6.9	-5.2
5G NR n77 3700 – 3980 MHz				-4.8	-3.5	-4.2	-4.0

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE and 5G NR Bands:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 41, Band 48, Band 66, Band 71, 5G NR n2, 5G NR n5, 5G NR n7, 5G NR n12, 5G NR n25, 5G NR n30, 5G NR n41, 5G NR n66, 5G NR n71, and 5G NR n77.

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

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

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

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

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

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

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

The EUT was investigated in three orthogonal orientations X/Y/Z on all ANT 1, ANT2, ANT3, ANT4, ANT7, ANT8 and ANT 9 antennas to determine the worst case orientation. The following table 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	Y	X	N/A	N/A	N/A	N/A	N/A
1710 – 1915 MHz	X	Y	X	X	N/A	N/A	N/A
2300 – 2700 MHz	X	Y	X	X	N/A	N/A	N/A
3300 – 3980 MHz	N/A	N/A	N/A	Y	X	Z	X

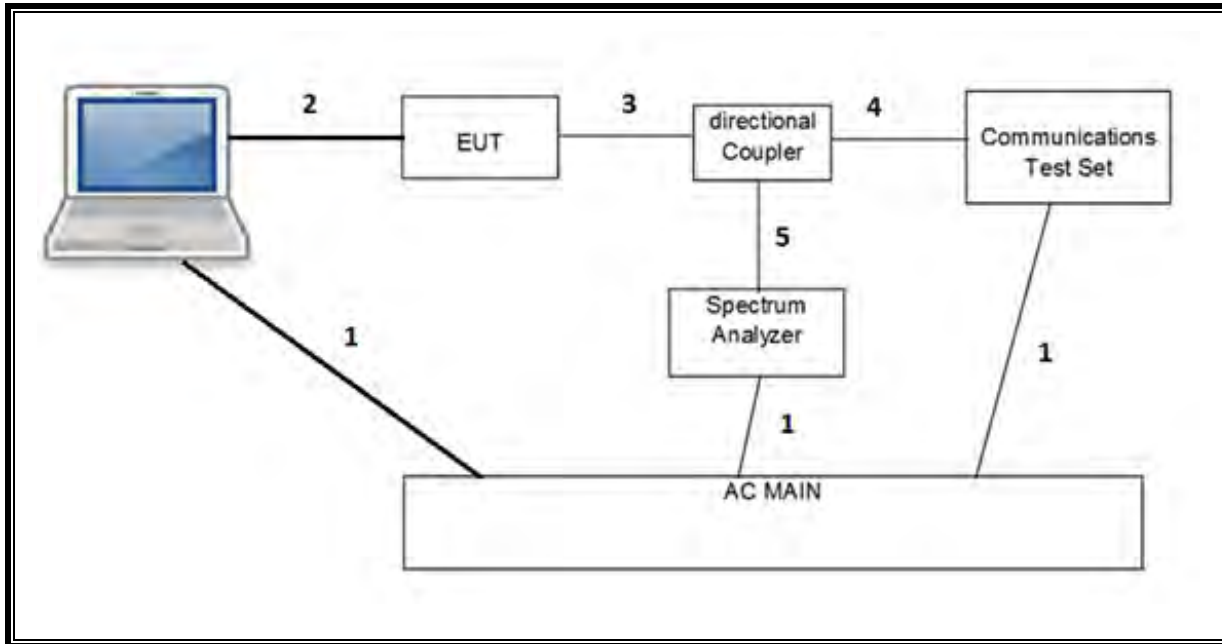
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz.

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

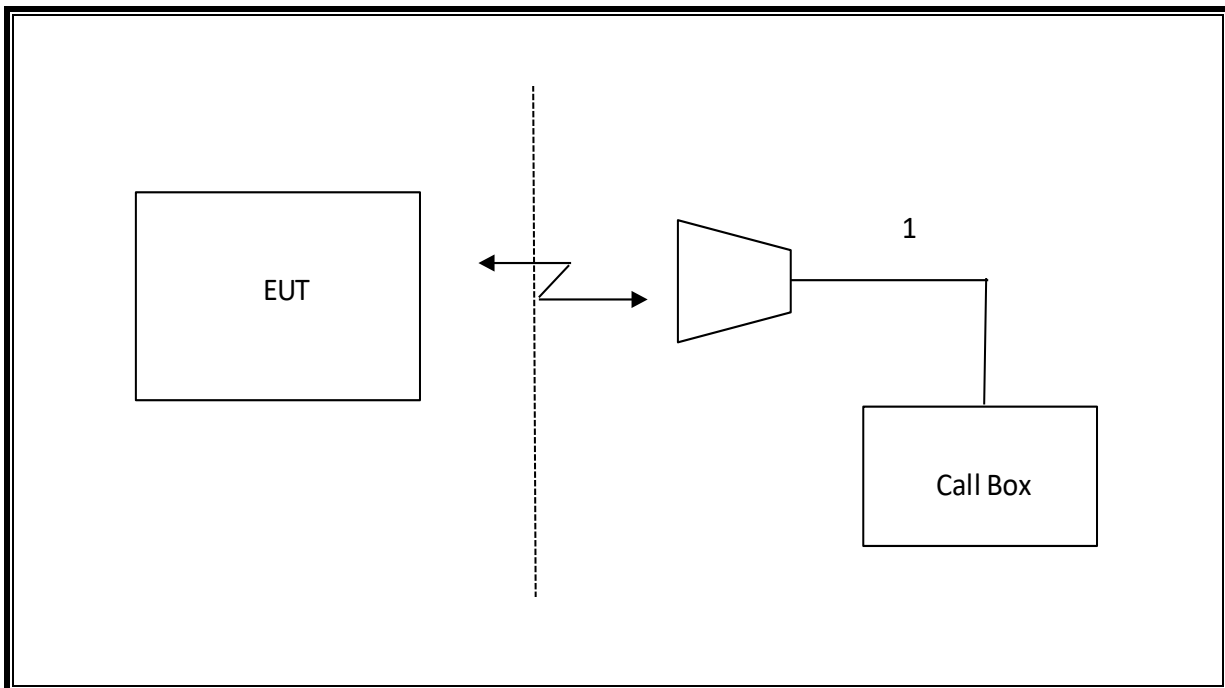
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
Laptop	Apple	MacBook Pro	C02VD7SAH22	BCGA1708		
AC/DC adapter	Apple	A1718	C4H714302LCGN8RA5	--		
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2.0	N/A
2	USB	1	DC	Un-shielded	1.0	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A
5	RF In/Out	1	Barrel	N/A	N/A	N/A
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



7. TEST AND MEASUREMENT EQUIPMENT

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

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

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

NOTES:

1. * Testing is completed before equipment expiration date.

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

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

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

UE Power Class: 3 (23 +/- 2dBm). Band 41 UE Power Class: 2 (26 +/-2 dBm).The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS136.101.

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

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

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

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

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

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

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

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

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

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

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

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS 38.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

Network signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A
NS_03	6.5.2.3.3.3	n2, n25, n66, n70, n86			Clause 6.2.3.3.7
NS_03U	6.5.2.3.3.3, 6.5.2.4.2.3	n2, n25, n66, n86			Clause 6.2.3.3.7
NS_04	6.5.2.3.3.2, 6.5.3.3.3.1	n41	10, 15, 20, 40, 50, 60, 80, 90, 100		Clause 6.2.3.3.2

RESULTS

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

8.1. 5G NR n5

Test Engineer ID:	19467	Test Date:	3/5/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR 5G NR n5 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				165300	167300	169300	165300	167300	169300
5.0	BPSK	1	0	25.09	24.47	25.02	24.23	24.15	23.93
		1	1	25.70	25.39	25.32	24.70	24.69	24.42
		1	23	25.46	25.21	25.03	24.55	24.49	24.27
		1	24	25.27	24.77	24.87	23.98	23.96	23.78
		12	6	25.52	25.45	25.46	24.59	24.51	24.27
		25	0	24.94	25.00	24.72	23.90	23.93	23.63
	QPSK	1	0	24.85	24.64	24.57	23.65	23.61	23.46
		1	1	25.52	25.60	25.34	24.65	24.65	24.39
		1	23	25.33	25.62	25.16	24.58	24.43	24.30
		1	24	24.58	24.29	24.30	23.51	23.47	23.28
		12	6	25.65	25.17	25.27	24.55	24.50	24.31
		25	0	24.58	24.60	24.27	23.46	23.40	23.29
	16QAM	1	0	24.05	23.84	23.81	22.32	22.09	22.05
		1	1	24.86	24.95	24.51	23.38	23.50	23.12
		1	23	25.19	24.98	24.49	23.32	23.35	22.69
		1	24	23.95	23.74	23.30	22.40	21.92	23.19
		12	6	24.75	24.46	24.29	23.49	23.34	23.18
		25	0	23.58	23.59	23.36	22.48	22.38	22.14
	64QAM	1	0	23.10	23.71	22.87	22.37	22.17	21.91
		1	1	23.03	23.04	23.27	22.35	22.16	21.97
		1	23	23.00	23.00	23.43	22.19	22.17	21.82
		1	24	23.29	23.07	22.76	22.21	21.98	21.79
		12	6	23.10	23.01	23.01	21.96	21.98	21.57
		25	0	23.00	23.00	22.73	22.00	21.94	21.66
	256QAM	1	0	20.89	20.61	20.73	20.40	20.30	19.99
		1	1	20.88	20.43	20.73	20.47	20.17	20.02
		1	23	20.68	20.55	20.26	20.23	20.07	19.86
		1	24	20.68	20.77	20.59	20.26	20.03	20.02
		12	6	20.87	20.72	20.73	20.23	19.88	19.74
		25	0	21.14	20.92	20.83	20.03	19.90	19.68

OUTPUT POWER FOR 5G NR n5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				165800	167300	168800	165800	167300	168800
10.0	BPSK	1	0	25.36	25.04	25.15	24.27	24.02	24.13
		1	1	25.70	25.37	25.58	24.70	24.55	24.64
		1	50	25.62	25.25	25.30	24.70	24.58	24.45
		1	51	24.98	25.03	24.78	24.17	23.99	23.92
		25	12	25.65	25.51	25.49	24.54	24.55	24.40
		50	0	24.97	24.95	24.81	24.11	23.97	23.89
	QPSK	1	0	24.61	24.65	24.59	23.70	23.57	23.55
		1	1	25.62	25.31	25.65	24.70	24.63	24.51
		1	50	25.54	25.39	25.36	24.62	24.56	24.39
		1	51	24.32	24.31	24.20	23.65	23.45	23.42
		25	12	25.61	25.48	25.48	24.65	24.54	24.41
		50	0	24.46	24.42	24.32	23.65	23.54	23.39
	16QAM	1	0	23.73	23.69	23.74	22.27	22.14	22.20
		1	1	24.91	24.85	24.94	23.81	23.35	23.07
		1	50	24.95	25.33	24.88	23.21	23.24	23.11
		1	51	23.84	23.83	23.61	22.30	22.39	22.01
		25	12	24.63	24.60	24.58	23.61	23.62	23.38
		50	0	23.50	23.34	23.41	22.58	22.63	22.46
	64QAM	1	0	23.52	22.67	23.21	22.38	22.14	22.12
		1	1	23.32	23.01	23.28	22.51	22.30	22.10
		1	50	23.10	23.02	22.46	22.15	22.18	22.01
		1	51	23.49	22.89	22.39	22.19	21.99	22.02
		25	12	23.04	22.85	22.77	22.14	21.96	21.86
		50	0	22.95	22.88	22.86	22.14	22.03	21.87
	256QAM	1	0	20.81	20.37	20.69	20.39	20.30	20.10
		1	1	20.91	20.38	20.62	20.28	20.26	20.29
		1	50	20.81	20.70	20.65	20.32	20.26	20.23
		1	51	20.60	20.87	19.91	20.20	20.16	20.06
		25	12	21.11	21.16	20.91	20.18	19.97	19.95
		50	0	21.13	21.05	20.73	20.15	20.10	19.83

OUTPUT POWER FOR 5G NR n5 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				166300	167300	168300	166300	167300	168300
15.0	BPSK	1	0	25.39	25.19	24.71	24.23	24.12	23.96
		1	1	25.52	25.56	25.13	24.61	24.70	24.45
		1	77	25.36	25.32	25.48	24.60	24.51	24.31
		1	78	24.95	25.11	24.53	24.00	23.90	23.91
		36	18	25.41	25.27	25.25	24.42	24.46	24.29
		75	0	24.93	24.87	24.82	23.84	23.85	23.78
	QPSK	1	0	24.74	24.60	24.02	23.69	23.59	23.48
		1	1	25.60	25.70	25.50	24.68	24.68	24.48
		1	77	25.30	25.53	25.29	24.62	24.42	24.36
		1	78	24.68	24.39	24.20	23.53	23.45	23.38
		36	18	25.49	25.28	25.32	24.43	24.49	24.28
		75	0	24.39	24.45	24.33	23.46	23.42	23.40
	16QAM	1	0	23.89	23.73	23.42	22.54	22.23	21.93
		1	1	24.65	24.94	24.69	23.48	23.05	23.21
		1	77	24.78	24.41	24.33	23.03	23.21	23.00
		1	78	24.07	23.80	23.61	22.21	21.87	22.17
		36	18	24.47	24.52	24.28	23.44	23.47	23.40
		75	0	23.41	23.38	23.31	22.42	22.47	22.33
	64QAM	1	0	23.36	23.10	23.10	22.22	22.28	22.07
		1	1	23.28	22.60	22.71	22.13	22.25	22.07
		1	77	23.31	23.21	22.73	22.18	22.07	21.86
		1	78	22.92	23.21	22.88	22.05	22.07	21.93
		36	18	22.93	22.92	22.75	22.05	21.97	21.92
		75	0	22.97	22.95	22.80	21.95	21.91	21.87
	256QAM	1	0	20.70	20.51	20.62	20.35	20.29	20.22
		1	1	20.90	20.60	20.67	20.30	20.36	20.16
		1	77	20.41	20.02	20.38	20.29	20.06	19.98
		1	78	20.63	20.65	20.55	20.18	20.18	19.94
		36	18	20.87	20.88	20.81	20.07	19.96	19.88
		75	0	20.91	20.96	20.78	20.04	20.02	19.84

OUTPUT POWER FOR 5G NR n5 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				166800	167300	167800	166800	167300	167800
20.0	BPSK	1	0	24.87	24.71	24.84	24.02	24.05	24.10
		1	1	25.62	25.41	25.41	24.70	24.57	24.53
		1	104	25.44	25.31	25.23	24.34	24.29	24.27
		1	105	24.68	24.79	24.66	24.03	23.88	23.76
		50	25	25.39	25.30	25.32	24.38	24.43	24.48
		100	0	24.82	24.82	24.74	23.88	23.85	23.74
	QPSK	1	0	24.34	24.38	24.59	23.60	23.59	23.44
		1	1	25.51	25.70	25.26	24.53	24.50	24.42
		1	104	25.19	25.12	25.05	24.47	24.36	24.21
		1	105	24.14	24.37	24.32	23.35	23.37	23.26
		50	25	25.31	25.33	25.33	24.38	24.25	24.28
		100	0	24.38	24.30	24.28	23.40	23.33	23.30
	16QAM	1	0	23.90	23.52	23.55	22.25	22.43	22.05
		1	1	24.64	24.74	24.81	22.96	23.18	23.30
		1	104	24.92	24.39	24.93	23.22	23.30	22.96
		1	105	23.72	23.39	23.25	21.92	22.04	21.88
		50	25	24.37	24.25	24.18	23.44	23.34	23.25
		100	0	23.48	23.29	23.31	22.38	22.30	22.20
	64QAM	1	0	22.89	22.91	23.08	22.12	22.51	21.92
		1	1	22.69	22.77	22.47	22.05	21.97	22.16
		1	104	23.31	22.78	22.62	22.08	22.10	21.82
		1	105	23.00	22.56	22.48	21.77	22.02	21.78
		50	25	22.72	22.90	22.71	22.00	21.79	21.75
		100	0	22.75	22.85	22.70	21.94	21.85	21.70
	256QAM	1	0	20.54	20.70	20.73	20.23	20.02	20.00
		1	1	20.47	20.56	20.73	20.28	20.22	19.94
		1	104	20.91	20.15	20.24	19.97	19.81	20.18
		1	105	20.53	20.50	20.73	19.86	19.84	19.91
		50	25	20.84	20.81	21.06	19.94	19.91	19.87
		100	0	20.98	20.87	20.96	19.90	19.82	19.77

8.2. LTE BAND 7 AND 5G NR n7

LTE BAND 7

Test Engineer ID:	10646	Test Date:	3/1/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
5.0	QPSK	1	0	25.61	25.48	25.54	23.20	22.94	22.86	25.06	25.01	25.11	22.94	23.20	23.12
		1	12	25.56	25.47	25.52	23.01	22.85	22.95	25.08	24.93	25.11	22.93	23.15	23.12
		1	24	25.70	25.57	25.50	23.06	22.87	23.02	25.20	24.92	25.12	23.12	23.17	23.16
		12	0	24.76	24.70	24.74	22.32	22.02	22.04	24.02	24.04	24.16	22.14	22.28	22.26
		12	6	24.85	24.73	24.74	22.20	22.01	21.99	24.05	24.03	24.18	22.12	22.28	22.33
	16QAM	12	11	24.82	23.70	24.09	22.22	22.01	22.06	24.08	24.03	24.19	22.14	22.26	22.32
		25	0	24.41	24.36	24.35	22.27	22.02	22.00	24.06	23.99	24.16	22.19	22.26	22.25
		1	0	24.61	24.92	24.43	22.40	22.48	22.10	24.21	24.17	24.21	22.17	22.75	22.31
		1	12	24.40	24.82	24.40	22.26	22.45	22.13	24.02	24.13	24.19	22.17	22.72	22.36
		1	24	24.61	25.01	24.54	22.33	22.45	22.20	24.24	24.13	24.30	22.33	22.71	22.40
	64QAM	12	0	23.62	23.65	23.59	21.42	21.23	21.10	23.03	23.12	23.22	21.22	21.44	21.37
		12	6	23.61	23.66	23.58	21.36	21.20	21.09	23.08	23.10	23.20	21.23	21.42	21.40
		12	11	23.67	23.68	23.55	21.30	21.18	21.13	23.11	23.07	23.24	21.27	21.42	21.34
		25	0	23.60	23.54	23.45	21.31	21.10	21.02	23.04	23.01	23.12	21.16	21.35	21.26
		1	0	23.46	23.92	23.85	21.23	21.33	21.24	24.00	24.12	24.21	20.94	21.66	21.52
	256QAM	1	12	23.56	24.06	23.81	21.26	21.38	21.33	24.08	24.07	24.27	21.06	21.60	21.55
		1	24	23.65	24.04	23.83	21.25	21.34	21.38	24.15	24.06	24.23	21.23	21.64	21.60
		12	0	22.72	22.55	22.70	20.42	20.03	20.08	22.91	23.01	23.10	20.16	20.29	20.32
		12	6	22.72	22.56	22.67	20.35	20.02	20.14	22.99	22.99	23.16	20.22	20.29	20.41
		12	11	22.70	22.63	22.69	20.25	20.00	20.20	23.03	23.01	23.14	20.23	20.24	20.43

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
10.0	QPSK	1	0	25.56	25.40	25.48	23.20	23.10	23.03	25.02	25.08	25.12	22.84	23.09	23.06
		1	24	25.70	25.54	25.45	23.11	22.95	22.84	25.11	24.99	25.14	23.01	23.06	23.04
		1	49	24.61	24.49	24.53	23.04	22.91	23.03	25.17	25.04	25.20	23.20	23.08	23.00
		25	0	24.56	24.57	24.59	22.32	22.12	22.03	24.19	24.22	24.30	22.07	22.16	22.10
		25	12	24.59	24.59	24.57	22.30	22.10	22.15	24.22	24.21	24.31	22.06	22.15	22.17
	16QAM	25	24	24.60	24.55	24.57	22.22	22.02	22.09	24.26	24.21	24.31	22.16	22.15	22.14
		50	0	25.01	24.44	24.37	22.30	22.10	22.09	24.22	24.20	24.30	22.05	22.17	22.15
		1	0	24.95	24.48	24.44	22.33	22.57	22.08	24.16	24.21	24.16	21.83	22.53	22.16
		1	24	25.11	24.58	24.43	22.09	22.37	22.06	24.22	24.12	24.13	21.99	22.47	22.13
		1	49	23.62	23.59	23.60	22.13	22.40	22.13	24.33	24.16	24.23	22.15	22.55	22.10
	64QAM	25	0	23.67	23.64	23.60	21.35	21.18	21.14	23.35	23.32	23.32	21.10	21.19	21.18
		25	12	23.65	23.67	23.61	21.29	21.15	21.22	23.35	23.34	23.33	21.09	21.18	21.33
		25	24	23.61	23.58	23.51	21.25	21.09	21.19	23.41	23.33	23.35	21.16	21.16	21.27
		50	0	23.65	23.66	23.73	21.26	21.09	21.16	23.27	23.25	23.29	20.99	21.21	21.23
		1	0	23.75	23.65	23.74	21.58	21.19	21.23	24.12	24.18	24.20	21.19	21.29	21.28
	256QAM	1	24	23.81	23.66	23.73	21.44	21.17	21.26	24.19	24.06	24.12	21.34	21.29	21.32
		1	49	22.76	22.64	22.61	21.54	21.20	21.34	24.35	24.14	24.30	21.50	21.31	21.30
		25	0	22.75	22.68	22.66	20.27	20.23	20.11	23.28	23.26	23.30	20.17	20.31	20.25
		25	12	22.78	22.77	22.67	20.34	20.22	20.25	23.31	23.31	23.38	20.16	20.33	20.33
		25	24	22.71	22.63	22.66	20.31	20.16	20.20	23.32	23.28	23.37	20.20	20.30	20.30

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	25.46	25.31	25.26	23.19	23.20	23.10	24.93	25.15	25.19	22.85	23.20	23.06
		1	37	25.60	25.46	25.40	23.11	23.03	22.98	25.08	25.01	25.10	23.15	23.16	23.07
		1	74	25.70	25.52	25.42	23.13	23.00	23.06	25.19	25.09	25.20	23.20	23.15	23.06
		36	0	24.56	24.45	24.44	22.21	22.04	22.04	24.14	24.10	24.15	22.09	22.17	22.03
		36	16	24.69	24.54	24.50	22.24	22.08	22.02	24.11	24.07	24.18	22.19	22.18	22.05
		36	35	24.61	24.57	24.53	22.16	22.01	22.06	24.16	24.10	24.19	22.15	22.16	22.12
		75	0	24.57	24.51	24.49	22.20	22.04	22.01	24.11	24.07	24.12	22.09	22.18	22.12
		1	0	24.97	24.75	24.25	22.22	22.54	22.21	24.02	24.55	24.27	21.87	22.59	22.22
		1	37	25.09	25.11	24.43	22.02	22.38	22.33	24.23	24.49	24.58	22.14	22.59	22.54
		1	74	25.12	25.05	24.41	22.03	22.35	22.52	24.27	24.42	24.70	22.23	22.57	22.57
	16QAM	36	0	23.65	23.46	23.46	21.21	21.15	21.03	23.10	23.07	23.13	21.13	21.20	21.07
		36	16	23.75	23.54	23.55	21.25	21.11	21.02	23.14	23.09	23.18	21.23	21.23	21.05
		36	35	23.71	23.59	23.56	21.18	21.07	21.07	23.19	23.13	23.19	21.20	21.20	21.16
		75	0	23.66	23.54	23.57	21.21	21.07	21.05	23.10	23.12	23.17	21.11	21.19	21.13
		1	0	23.70	24.06	23.70	21.54	21.31	21.66	24.44	24.58	24.57	21.21	21.39	21.67
		1	37	23.82	24.15	23.81	21.48	21.22	21.58	24.57	24.46	24.53	21.48	21.36	21.77
		1	74	23.82	24.20	23.81	21.51	21.16	21.69	24.68	24.55	24.59	21.53	21.36	21.76
	64QAM	36	0	22.74	22.55	22.56	20.24	20.22	20.10	23.11	23.10	23.17	20.18	20.30	20.11
		36	16	22.83	22.59	22.62	20.27	20.18	20.10	23.14	23.10	23.19	20.29	20.31	20.12
		36	35	22.79	22.65	22.67	20.26	20.11	20.10	23.22	23.13	23.18	20.30	20.29	20.21
		75	0	22.66	22.60	22.60	20.26	20.13	20.10	23.15	23.10	23.17	20.18	20.24	20.19
		1	0	20.38	20.81	21.00	18.80	17.93	18.48	20.25	20.44	20.45	18.50	17.99	18.48
		1	37	20.50	20.90	21.03	18.74	17.89	18.43	20.46	20.33	20.40	18.75	18.01	18.52
		1	74	20.56	20.95	21.08	18.77	17.86	18.48	20.44	20.44	20.47	18.83	18.02	18.47
	256QAM	36	0	20.69	20.59	20.57	18.28	18.14	18.04	20.16	20.13	20.20	18.17	18.22	18.13
		36	16	20.74	20.64	20.64	18.28	18.13	18.05	20.16	20.14	20.22	18.25	18.22	18.14
		36	35	20.73	20.65	20.66	18.25	18.05	18.07	20.22	20.16	20.22	18.25	18.20	18.22
		75	0	20.65	20.64	20.63	18.25	18.12	18.04	20.13	20.14	20.24	18.17	18.23	18.22

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	25.46	25.46	25.48	23.20	23.07	23.00	24.87	25.06	25.07	22.85	23.03	23.07
		1	49	25.70	25.61	25.54	22.98	22.87	22.83	25.00	24.90	25.01	23.11	23.10	23.00
		1	99	25.33	25.38	25.30	23.08	22.85	22.97	25.20	25.08	25.12	23.20	23.04	23.07
		50	0	24.50	24.35	24.31	22.22	22.01	21.99	24.08	24.02	24.11	22.16	22.18	22.11
		50	24	24.60	24.41	24.39	22.15	22.02	21.96	24.22	24.08	24.15	22.30	22.23	22.17
		50	49	24.53	24.51	24.43	22.15	21.96	21.99	24.20	24.00	24.06	22.18	22.20	22.17
		100	0	24.47	24.44	24.39	22.17	22.02	22.06	24.10	24.06	24.12	22.19	22.20	22.14
		1	0	24.81	24.66	24.82	22.76	22.63	22.44	24.52	24.46	24.47	22.45	22.67	22.51
		1	49	24.95	24.78	24.91	22.55	22.33	22.35	24.73	24.41	24.46	22.72	22.54	22.47
		1	99	25.04	25.00	25.00	22.66	22.40	22.36	24.79	24.50	24.56	22.83	22.60	22.53
	16QAM	50	0	23.64	23.48	23.50	21.21	21.02	20.95	23.10	23.03	23.08	21.21	21.25	21.07
		50	24	23.74	23.54	23.57	21.18	21.05	20.93	23.25	23.05	23.13	21.38	21.27	21.18
		50	49	23.70	23.62	23.62	21.16	20.99	21.00	23.22	23.00	23.06	21.26	21.26	21.21
		100	0	23.64	23.62	23.58	21.20	20.97	21.05	23.16	23.10	23.16	21.35	21.21	21.18
		1	0	24.24	23.68	23.84	21.51	21.81	21.30	24.55	24.69	24.70	21.35	21.89	21.39
		1	49	24.39	23.90	23.88	21.50	21.61	21.23	24.71	24.63	24.71	21.63	21.86	21.41
		1	99	24.35	23.95	23.97	21.57	21.64	21.19	24.79	24.74	24.79	21.68	21.87	21.41
	64QAM	50	0	22.74	22.63	22.63	20.21	20.06	20.04	23.03	23.08	23.10	20.28	20.28	20.19
		50	24	22.87	22.71	22.68	20.27	20.09	20.02	23.15	23.10	23.13	20.42	20.30	20.26
		50	49	22.80	22.74	22.72	20.25	20.02	20.04	23.16	23.02	23.10	20.36	20.30	20.24
		100	0	22.71	22.72	22.64	20.10	20.09	20.14	23.11	23.10	23.18	20.23	20.29	20.21
		1	0	20.70	20.46	20.74	18.36	18.22	18.02	19.72	20.04	20.03	18.17	18.32	18.13
		1	49	20.93	20.52	20.79	18.35	18.12	18.08	20.03	19.94	20.04	18.48	18.33	18.20
		1	99	20.89	20.67	20.86	18.41	18.13	18.03	20.14	20.07	20.07	18.47	18.36	18.21
	256QAM	50	0	20.77	20.65	20.65	18.27	18.05	18.04	20.10	20.15	20.21	18.23	18.31	18.19
		50	24	20.86	20.75	20.66	18.23	18.12	18.06	20.22	20.16	20.23	18.34	18.30	18.29
		50	49	20.80	20.80	20.72	18.16	18.06	18.04	20.24	20.12	20.18	18.34	18.30	18.28
		100	0	20.76	20.75	20.67	18.18	18.10	18.16	20.18	20.14	20.22	18.22	18.30	18.31

5G NR n7

Test Engineer ID:	10646	Test Date:	5/26/2021
--------------------------	-------	-------------------	-----------

OUTPUT POWER FOR 5G NR n7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				500500	507000	513500	500500	507000	513500	500500	507000	513500	500500	507000	513500
5.0	BPSK	1	0	25.18	25.15	25.05	22.41	22.23	22.17	24.36	24.54	24.64	21.80	22.57	22.72
		1	1	25.60	25.55	25.54	22.67	22.63	22.65	24.89	25.03	25.10	22.63	23.20	23.15
		1	23	25.62	25.70	25.63	22.76	22.82	23.20	24.99	24.95	25.00	23.19	23.10	23.19
		1	24	25.18	25.20	25.13	22.21	22.06	22.40	24.54	24.66	24.61	22.67	22.70	22.72
		12	6	25.61	25.61	25.55	22.84	22.69	22.75	25.04	25.06	25.09	22.90	23.07	23.12
		25	0	25.05	25.09	24.95	22.29	22.14	22.28	24.38	24.46	24.55	22.29	22.56	22.64
	QPSK	1	0	24.61	24.61	24.48	21.72	21.46	21.78	23.76	23.96	24.06	21.32	22.09	22.22
		1	1	25.64	25.64	25.58	22.86	22.92	22.59	24.87	24.98	24.95	22.11	23.11	23.18
		1	23	25.65	25.66	25.67	22.98	22.50	22.83	25.20	25.11	25.04	23.11	23.07	23.19
		1	24	24.57	24.65	24.58	21.69	21.51	21.75	24.05	23.89	24.07	22.21	22.11	22.35
		12	6	25.59	25.66	25.57	22.79	22.76	22.75	24.92	25.04	25.15	22.77	23.12	23.13
		25	0	24.59	24.53	24.53	21.80	21.76	21.79	24.03	24.02	24.15	21.87	22.00	22.15
	16QAM	1	0	23.50	23.69	23.45	20.57	21.02	20.89	22.69	22.77	22.77	20.49	21.23	21.26
		1	1	24.60	24.52	24.45	21.75	21.81	21.79	23.53	23.76	23.71	21.55	22.37	22.39
		1	23	24.47	24.62	24.56	21.66	21.82	22.05	23.85	23.73	23.84	22.43	22.30	22.32
		1	24	23.52	23.66	23.47	20.67	20.88	20.40	22.70	22.77	22.88	21.50	21.27	21.18
		12	6	24.60	24.70	24.56	21.70	21.58	21.80	23.97	24.00	24.07	21.72	22.10	22.20
		25	0	23.59	23.54	23.50	20.81	20.88	20.95	22.89	22.97	23.03	20.91	21.10	21.19
	64QAM	1	0	23.28	23.23	23.11	20.58	20.36	20.13	22.37	22.65	22.63	20.02	20.66	20.94
		1	1	23.12	23.14	23.22	20.35	20.34	20.54	22.47	22.69	22.59	20.11	20.75	20.80
		1	23	23.37	23.32	23.27	20.54	20.64	20.74	22.53	22.64	22.72	20.86	20.77	20.80
		1	24	23.23	23.31	23.34	20.34	20.63	20.34	22.65	22.60	22.74	20.86	20.72	20.77
		12	6	23.01	23.05	22.99	20.13	20.19	20.17	22.36	22.51	22.56	20.27	20.68	20.69
		25	0	23.03	22.94	22.98	20.35	20.27	20.29	22.50	22.60	22.67	20.47	20.68	20.76
	256QAM	1	0	21.39	21.08	21.11	18.71	18.40	18.58	20.33	20.49	20.62	17.70	18.75	18.71
		1	1	21.32	21.26	21.19	18.66	18.43	18.37	20.24	20.52	20.69	17.91	18.75	18.77
		1	23	21.24	21.21	21.25	18.50	18.41	18.24	20.68	20.55	20.85	18.68	18.67	18.79
		1	24	21.17	21.08	21.34	18.41	18.61	18.69	20.38	20.55	20.70	18.90	18.59	18.70
		12	6	21.16	21.13	21.02	18.31	18.22	18.39	20.49	20.64	20.62	18.35	18.62	18.76
		25	0	21.13	21.06	20.99	18.32	18.33	18.40	20.38	20.61	20.60	18.40	18.70	18.74

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	25.11	25.18	24.98	22.51	22.46	22.43	24.22	24.57	24.21	21.83	22.55	22.62
		1	1	25.57	25.55	25.46	23.20	22.79	22.93	24.89	25.02	24.67	22.65	22.91	22.85
		1	50	25.68	25.60	25.57	23.02	22.91	22.72	25.20	24.70	24.93	23.13	23.11	23.12
		1	51	25.24	25.13	25.06	22.78	22.38	22.55	24.56	24.30	24.51	23.20	22.63	22.60
		25	12	25.60	25.61	25.47	23.01	22.90	22.99	24.93	24.88	24.96	22.91	23.01	23.05
		50	0	25.07	25.00	25.00	22.54	22.39	22.55	24.42	24.48	24.49	22.43	22.42	22.63
	QPSK	1	0	24.56	24.61	24.42	22.04	22.05	22.05	23.79	24.09	24.09	21.33	21.94	22.07
		1	1	25.62	25.62	25.45	22.98	22.79	22.91	24.75	25.08	24.99	22.54	22.88	22.98
		1	50	25.70	25.62	25.65	22.92	22.74	22.97	25.01	25.14	25.10	22.92	23.05	22.93
		1	51	24.64	24.51	24.60	22.00	21.95	21.96	24.03	24.04	24.09	22.67	22.09	22.16
		25	12	25.59	25.52	25.50	22.93	22.85	23.01	24.91	24.92	25.12	22.91	22.98	23.06
		50	0	24.59	24.49	24.49	21.99	21.92	22.06	23.95	23.97	24.06	21.93	21.95	22.05
	16QAM	1	0	23.58	23.55	23.31	20.98	20.83	20.83	22.40	22.80	22.78	20.43	21.05	21.12
		1	1	24.43	24.51	24.37	21.72	22.12	22.20	23.80	23.74	23.79	21.96	21.90	22.14
		1	50	24.66	24.46	24.54	21.88	21.90	21.79	23.86	23.64	23.66	21.99	22.04	22.20
		1	51	23.50	23.69	23.53	21.26	21.09	21.03	22.79	22.67	22.93	21.98	21.04	21.27
		25	12	24.56	24.56	24.47	22.02	21.99	22.08	23.91	23.86	23.98	21.86	22.01	22.08
		50	0	23.58	23.61	23.51	21.00	20.88	21.09	22.94	22.89	23.05	20.88	21.01	21.05
	64QAM	1	0	23.20	23.29	23.20	20.51	20.58	20.46	22.23	22.43	22.30	19.89	20.39	20.60
		1	1	23.33	23.39	23.14	20.60	20.54	20.64	22.25	22.38	22.43	20.37	20.63	20.63
		1	50	23.46	23.36	23.27	20.94	20.55	20.91	22.51	22.36	22.59	20.35	20.61	20.55
		1	51	23.37	23.27	23.37	20.67	20.80	20.88	22.69	22.40	22.41	21.51	20.55	20.74
		25	12	23.01	23.00	22.99	20.53	20.49	20.51	22.45	22.51	22.59	20.38	20.47	20.62
		50	0	22.96	22.97	22.86	20.50	20.42	20.45	22.38	22.45	22.49	20.37	20.39	20.60
	256QAM	1	0	21.31	21.29	21.05	18.79	18.45	18.70	20.34	20.54	20.41	17.85	18.68	18.52
		1	1	21.28	21.31	21.06	18.66	18.94	18.58	20.39	20.59	20.51	18.17	18.49	18.55
		1	50	21.17	21.26	21.18	19.02	18.68	18.80	20.54	20.44	20.39	18.48	18.69	18.67
		1	51	21.17	21.13	21.16	18.50	18.53	18.96	20.72	20.38	20.40	19.19	18.67	18.55
		25	12	21.08	21.09	21.01	18.58	18.41	18.54	20.36	20.31	20.44	18.49	18.57	18.64
		50	0	21.12	21.12	21.01	18.58	18.45	18.62	20.49	20.53	20.48	18.43	18.52	18.54

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	24.96	25.05	24.90	22.38	22.37	22.24	24.36	24.49	24.52	22.10	22.42	22.46
		1	1	25.46	25.53	25.37	23.20	22.87	23.01	24.82	24.88	24.92	22.82	22.81	22.94
		1	77	25.70	25.56	25.51	23.14	22.88	23.00	25.04	24.76	25.01	23.18	23.20	22.89
		1	78	25.24	25.08	25.07	22.77	22.16	22.59	24.56	24.27	24.45	22.48	22.32	22.48
		36	18	25.41	25.27	25.23	22.90	22.82	22.65	24.90	24.80	24.91	22.72	22.85	22.81
		75	0	24.89	24.80	24.69	22.48	22.18	22.34	24.41	24.34	24.38	22.30	22.33	22.34
	QPSK	1	0	24.44	24.41	24.28	21.98	21.66	21.68	23.74	24.01	23.91	21.28	22.21	21.93
		1	1	25.46	25.41	25.32	23.00	22.76	22.87	24.81	25.02	25.03	22.44	22.93	22.87
		1	77	25.62	25.49	25.46	23.09	22.76	22.79	25.20	24.99	24.97	22.68	23.01	22.97
		1	78	24.53	24.41	24.35	22.05	21.61	21.87	24.13	23.93	24.12	22.03	22.07	22.03
		36	18	25.40	25.34	25.16	22.99	22.92	22.85	24.95	24.89	24.89	22.82	22.78	22.90
		75	0	24.45	24.37	24.18	21.98	21.87	21.79	23.87	23.86	23.86	21.68	21.80	22.01
	16QAM	1	0	23.35	23.33	23.25	21.20	20.75	20.95	22.50	22.89	22.79	20.42	20.94	20.94
		1	1	24.44	24.37	24.20	22.10	22.05	21.84	23.58	23.70	23.94	21.54	22.05	22.03
		1	77	24.75	24.49	24.43	22.12	22.05	22.12	23.95	23.64	23.89	21.79	22.01	22.10
		1	78	23.50	23.44	23.46	21.44	20.61	21.10	22.50	22.66	22.78	20.95	21.13	20.93
		36	18	24.54	24.36	24.24	21.99	21.97	21.86	23.87	23.91	23.88	21.87	21.89	21.89
		75	0	23.42	23.39	23.26	21.00	20.93	20.89	22.90	22.87	22.90	20.74	20.91	20.95
	64QAM	1	0	23.21	23.25	22.96	20.84	20.43	20.50	22.34	22.11	22.34	19.89	20.35	20.48
		1	1	23.23	23.09	23.00	20.58	20.74	20.29	22.29	22.56	22.37	20.41	20.41	20.44
		1	77	23.27	23.10	23.10	20.87	20.66	20.87	22.43	22.24	22.55	20.07	20.38	20.64
		1	78	23.36	23.19	23.16	20.69	20.37	20.40	22.39	22.42	22.49	20.77	20.56	20.45
		36	18	22.86	22.75	22.66	20.37	20.44	20.46	22.34	22.33	22.44	20.40	20.38	20.39
		75	0	22.92	22.90	22.70	20.46	20.39	20.29	22.44	22.38	22.40	20.33	20.33	20.51
	256QAM	1	0	21.05	21.07	20.96	18.41	18.65	18.80	20.28	20.24	20.50	18.09	18.58	18.36
		1	1	21.06	21.08	21.13	18.81	18.60	18.98	20.22	20.53	20.41	18.18	18.08	18.26
		1	77	21.04	21.11	21.00	18.59	18.14	18.52	20.80	20.44	20.57	18.43	18.18	18.41
		1	78	21.14	21.01	20.94	18.67	18.28	18.43	20.59	20.44	20.46	18.60	18.31	18.35
		36	18	20.78	20.80	20.70	18.38	18.30	18.16	20.37	20.40	20.36	18.20	18.46	18.51
		75	0	20.87	20.80	20.76	18.39	18.44	18.30	20.43	20.46	20.43	18.32	18.39	18.39

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	24.97	25.09	25.06	22.28	22.61	22.52	24.25	24.60	24.63	21.95	22.10	22.13
		1	1	25.59	25.55	25.55	22.95	22.65	22.91	24.84	24.98	24.95	22.58	22.68	22.74
		1	104	25.70	25.61	25.50	22.96	22.91	23.00	25.03	25.06	25.09	22.69	22.88	23.02
		1	105	25.13	25.11	25.05	22.62	22.42	22.37	24.56	24.57	24.68	22.38	22.11	22.44
		50	25	25.50	25.45	25.31	23.01	22.82	22.84	25.00	24.98	24.94	22.67	22.53	22.80
		100	0	25.00	24.92	24.81	22.50	22.39	22.25	24.52	24.48	24.47	21.60	21.96	21.76
	QPSK	1	0	24.40	24.55	24.37	21.88	21.81	21.74	23.92	24.18	24.00	21.56	21.99	21.80
		1	1	25.47	25.53	25.50	22.83	22.86	22.79	24.88	25.15	25.20	22.41	22.63	22.66
		1	104	25.68	25.61	25.57	22.96	22.82	23.20	25.19	25.05	25.13	22.62	22.71	22.70
		1	105	24.63	24.45	24.45	22.07	21.87	21.79	24.14	24.00	24.03	21.76	21.98	21.78
		50	25	25.49	25.41	25.28	22.98	22.87	22.80	25.06	24.95	24.88	22.68	22.65	23.20
		100	0	24.48	24.43	24.30	21.94	21.92	21.83	24.09	23.97	23.93	21.65	21.65	21.67
	16QAM	1	0	23.40	23.57	23.49	20.97	21.10	20.73	22.47	23.08	22.57	20.42	20.89	20.95
		1	1	24.37	24.53	24.54	21.89	22.31	21.92	23.77	24.08	23.90	21.52	21.83	21.55
		1	104	24.64	24.46	24.53	22.19	21.89	21.88	23.83	24.13	23.74	21.62	21.66	21.95
		1	105	23.79	23.59	23.47	21.03	20.97	21.11	23.02	22.82	23.01	20.55	21.04	20.66
		50	25	24.56	24.37	24.25	21.94	21.93	21.82	24.06	24.02	23.92	21.68	21.73	21.71
		100	0	23.48	23.41	23.33	20.87	20.87	20.78	23.02	23.01	22.92	20.68	20.78	20.76
	64QAM	1	0	23.16	23.31	23.28	20.49	20.96	20.36	22.45	22.65	22.29	20.22	20.52	20.35
		1	1	23.26	23.31	23.12	20.92	20.77	20.81	22.16	22.93	22.39	20.22	20.42	20.53
		1	104	23.20	23.27	23.15	20.62	20.62	20.87	22.79	22.86	22.90	20.34	20.26	20.36
		1	105	23.45	23.24	23.22	20.93	20.79	20.09	22.57	22.55	22.69	20.39	20.29	20.47
		50	25	22.96	22.81	22.71	20.49	20.34	20.35	22.54	22.47	22.45	20.15	20.17	20.09
		100	0	22.93	22.91	22.76	20.40	20.36	20.33	22.56	22.50	22.54	20.18	20.11	20.11
	256QAM	1	0	21.09	20.99	21.07	18.55	18.62	18.95	20.24	20.49	20.74	17.78	17.95	17.88
		1	1	21.05	21.13	21.00	18.54	18.39	18.84	20.49	20.57	20.66	17.86	17.88	18.08
		1	104	21.22	21.19	21.03	18.90	18.25	18.99	20.69	20.54	20.62	17.73	18.19	17.85
		1	105	21.24	21.33	21.05	19.09	18.36	18.89	20.66	20.47	20.61	18.25	18.31	18.47
		50	25	20.96	20.84	20.82	18.55	18.39	18.42	20.44	20.51	20.51	18.21	18.24	18.30
		100	0	20.92	20.84	20.79	18.37	18.29	18.33	20.50	20.55	20.47	18.18	18.23	18.25

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	23.00	23.12	23.06	20.92	20.74	20.98	22.18	22.37	22.60	20.80	21.10	21.35
		1	1	23.48	23.53	23.50	21.43	21.49	21.47	22.65	22.91	22.99	21.15	21.51	21.35
		1	131	23.70	23.42	23.20	21.49	21.44	21.59	23.03	22.90	23.08	21.42	21.68	21.29
		1	132	23.13	22.98	23.04	20.95	20.52	21.00	22.39	22.53	22.65	21.22	20.93	21.01
		64	32	23.35	23.25	23.22	21.37	21.26	21.30	22.89	22.95	22.96	21.53	21.58	21.52
		128	0	22.86	22.75	22.76	20.97	20.83	20.86	22.41	22.40	22.46	20.97	21.11	21.12
	QPSK	1	0	22.16	22.50	22.41	20.37	20.38	20.38	21.65	22.26	22.13	19.86	20.51	20.38
		1	1	23.50	23.33	23.47	21.52	21.30	21.22	22.77	23.20	23.14	20.97	21.53	21.70
		1	131	23.66	23.57	23.31	21.14	21.70	21.58	22.19	23.13	23.07	21.66	21.62	21.52
		1	132	22.24	22.62	22.74	20.27	20.32	20.60	22.25	22.02	22.19	20.87	20.59	20.36
		64	32	23.58	23.34	23.23	21.45	21.32	21.40	23.00	22.97	22.93	21.36	21.45	21.56
		128	0	22.45	22.37	22.24	20.14	20.40	20.45	21.92	21.96	21.95	20.36	20.46	20.43
	16QAM	1	0	21.54	21.56	21.29	19.30	19.22	18.89	20.36	20.76	21.35	19.41	19.87	19.41
		1	1	22.11	22.35	22.17	20.67	20.15	21.61	21.61	21.81	21.90	20.15	21.06	20.91
		1	131	22.57	22.22	22.15	20.30	20.52	20.27	22.20	21.70	22.18	20.68	20.63	20.85
		1	132	21.29	21.65	21.04	19.38	19.48	19.55	20.94	20.78	21.01	19.76	19.71	20.02
		64	32	22.48	22.32	22.23	20.44	20.31	20.37	21.95	21.89	21.98	20.39	20.51	20.55
		128	0	21.52	21.35	21.30	19.31	19.28	19.36	20.98	20.88	20.96	19.39	19.54	19.34
	64QAM	1	0	20.50	21.15	20.67	19.29	19.12	19.25	20.51	20.71	20.59	18.94	19.34	19.42
		1	1	21.16	20.58	20.25	19.16	19.31	18.79	20.17	20.73	20.96	18.82	19.30	19.45
		1	131	20.78	21.04	20.87	19.02	19.14	19.65	20.42	20.72	21.01	19.64	19.26	19.61
		1	132	21.17	21.27	21.15	18.90	19.28	19.17	20.80	20.31	20.74	19.29	19.46	18.84
		64	32	20.97	20.78	20.70	18.88	18.76	18.85	20.49	20.44	20.50	18.88	19.00	18.95
		128	0	20.96	20.90	20.69	19.01	18.86	18.88	20.43	20.46	20.44	18.96	19.12	18.85
	256QAM	1	0	19.19	18.98	18.59	17.54	16.78	17.39	18.39	18.52	18.47	16.93	17.21	17.24
		1	1	18.93	19.52	18.63	17.36	17.00	16.93	18.26	18.52	18.66	16.71	17.21	17.05
		1	131	18.82	19.03	19.03	17.04	17.19	16.76	18.38	18.61	18.89	17.50	17.08	16.96
		1	132	18.93	18.85	19.03	17.34	17.18	17.35	18.52	18.61	18.71	17.62	17.05	17.37
		64	32	18.86	18.85	18.59	17.03	16.90	16.97	18.51	18.41	18.41	17.11	17.21	16.98
		128	0	18.88	18.86	18.69	16.94	16.96	16.91	18.47	18.48	18.51	17.06	17.25	16.98

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	22.70	22.95	22.60	20.83	20.80	20.94	22.30	22.63	22.40	20.43	20.93	20.87
		1	1	23.32	23.37	23.27	21.40	21.61	21.70	22.81	23.01	23.06	20.81	21.44	20.97
		1	158	23.30	23.41	23.60	21.29	21.60	21.67	23.00	22.98	22.94	21.51	21.13	21.28
		1	159	22.50	22.86	22.83	20.96	21.01	21.12	22.55	22.60	22.25	20.82	20.75	20.84
		80	40	23.43	23.36	23.09	21.58	21.53	21.47	22.99	22.97	22.97	21.22	21.20	21.18
		160	0	22.81	22.85	22.69	20.71	21.02	20.99	22.51	22.56	22.47	20.48	20.65	20.65
	QPSK	1	0	22.32	22.65	22.20	20.46	20.55	20.30	21.76	22.31	22.12	19.71	20.25	20.13
		1	1	23.14	23.70	23.48	21.25	21.59	21.27	22.79	23.20	23.01	20.57	21.70	21.15
		1	158	23.13	23.56	23.32	21.47	21.32	21.58	22.92	23.07	23.07	21.27	21.27	21.14
		1	159	22.52	22.26	22.24	20.34	20.45	20.83	21.91	22.13	21.91	20.26	20.03	20.06
		80	40	23.41	23.15	23.20	21.54	21.53	21.45	23.05	22.85	22.96	21.22	21.19	21.20
		160	0	22.26	22.38	22.16	20.11	20.50	20.51	22.05	21.96	21.98	20.11	20.15	20.15
	16QAM	1	0	21.41	21.29	21.42	19.50	19.53	19.88	20.60	21.13	20.96	18.70	19.78	19.63
		1	1	22.07	22.66	21.83	20.59	20.46	20.26	21.69	22.28	22.18	19.85	20.39	20.90
		1	158	21.90	22.40	22.40	20.29	20.29	20.40	21.84	22.27	20.73	20.54	20.18	20.18
		1	159	21.27	21.23	21.51	19.63	19.61	19.51	21.14	21.04	20.78	19.74	19.43	19.27
		80	40	22.36	22.25	22.22	20.57	20.47	20.53	22.06	21.94	21.94	20.21	20.13	20.13
		160	0	21.27	21.33	21.18	19.20	19.51	19.51	21.05	20.95	20.97	19.21	19.22	19.17
	64QAM	1	0	20.55	20.75	20.40	19.40	19.45	19.59	20.81	20.95	20.78	18.46	18.87	19.18
		1	1	20.67	20.74	20.40	18.97	19.12	19.51	20.66	20.83	20.92	18.23	18.84	19.01
		1	158	20.86	20.52	20.43	18.82	18.80	19.81	20.92	21.22	20.87	18.80	18.62	18.38
		1	159	20.77	20.40	20.37	18.90	19.43	19.09	20.90	20.82	20.91	18.76	18.66	19.21
		80	40	20.87	20.69	20.69	18.96	19.04	18.55	20.56	20.45	20.45	18.65	18.64	18.63
		160	0	20.88	20.94	20.79	18.85	18.98	19.03	20.50	20.44	20.46	18.73	18.67	18.60
	256QAM	1	0	18.72	18.91	19.02	17.18	17.30	16.84	18.68	18.52	18.33	16.46	16.91	16.79
		1	1	18.67	19.16	19.02	17.46	17.29	17.50	18.52	18.78	18.22	16.29	16.77	16.95
		1	158	18.98	18.24	18.52	17.00	17.15	17.16	18.99	18.62	18.69	17.28	17.06	16.63
		1	159	18.79	18.88	18.69	17.00	17.20	17.50	18.50	18.60	18.51	16.79	17.09	16.99
		80	40	18.92	18.82	18.80	17.12	17.15	17.12	18.63	18.51	18.45	16.83	16.87	16.81
		160	0	18.94	18.90	18.78	16.94	17.18	17.11	18.53	18.61	18.51	16.85	16.82	16.82

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	22.81	22.85	23.07	20.91	21.09	20.69	22.02	22.51	22.61	20.31	20.83	20.85			
		1	1	23.42	23.28	23.42	21.20	21.52	21.29	22.58	22.91	22.96	21.05	21.70	21.31			
		1	214	23.53	23.62	23.19	21.45	21.44	21.55	22.90	22.94	22.89	21.38	21.32	21.18			
		1	215	22.95	22.72	22.78	20.97	21.11	20.96	22.34	22.32	22.45	20.66	20.62	20.66			
		108	54	23.38	23.41	23.34	21.50	21.26	21.65	22.86	22.87	22.86	21.35	21.25	21.18			
		216	0	22.97	22.92	22.84	20.94	21.14	20.92	22.41	22.35	22.30	20.79	20.87	20.71			
	QPSK	1	0	22.69	22.67	22.66	20.32	20.47	20.57	21.84	21.87	22.13	20.03	20.18	20.35			
		1	1	23.56	23.70	23.59	21.16	21.43	21.21	22.54	23.20	23.14	21.17	21.57	21.24			
		1	214	23.11	23.29	23.19	21.23	21.70	21.38	22.89	22.87	22.78	21.19	21.36	21.34			
		1	215	22.38	22.00	22.51	20.63	20.24	20.35	21.87	21.95	21.99	20.00	20.23	19.90			
		108	54	23.44	23.35	23.31	21.52	21.44	21.37	23.00	22.91	22.93	21.32	21.23	21.24			
		216	0	22.42	22.45	22.29	20.44	21.16	20.44	21.93	21.90	21.96	20.21	20.26	20.23			
	16QAM	1	0	20.93	21.53	21.44	19.38	19.26	19.39	20.60	20.93	21.22	19.24	19.51	19.50			
		1	1	22.23	22.30	22.01	20.53	20.56	20.05	21.63	22.04	22.13	19.87	20.61	20.81			
		1	214	22.05	22.32	21.92	20.28	20.58	20.32	21.60	22.21	21.92	20.64	20.65	20.73			
		1	215	21.33	20.87	21.17	19.19	19.32	19.54	21.05	21.06	20.92	19.81	19.73	19.47			
		108	54	22.39	22.30	22.32	20.38	20.38	20.30	21.98	21.87	21.96	20.30	20.30	20.08			
		216	0	21.39	21.34	21.23	19.45	20.09	19.34	20.98	20.96	20.94	19.36	19.25	19.30			
	64QAM	1	0	20.98	21.02	20.62	19.03	18.85	19.11	20.52	20.85	20.99	18.62	18.70	18.82			
		1	1	20.84	20.54	20.80	19.06	19.16	19.28	20.51	20.80	21.10	18.50	18.90	19.21			
		1	214	20.57	20.71	20.41	18.88	18.74	19.10	20.59	20.87	20.88	19.35	19.21	18.73			
		1	215	20.89	21.22	20.40	19.09	18.99	19.40	20.60	20.57	21.05	18.79	19.06	18.74			
		108	54	20.95	20.87	20.88	18.92	18.81	18.87	20.40	20.39	20.43	18.81	18.79	18.66			
		216	0	20.94	20.91	20.93	18.91	18.68	18.99	20.43	20.43	20.44	18.78	18.85	18.77			
	256QAM	1	0	18.88	19.20	19.21	16.93	17.29	16.69	18.34	18.54	18.47	16.60	17.14	16.96			
		1	1	19.09	18.90	19.02	17.17	17.06	17.28	18.18	18.90	18.42	16.43	16.85	16.81			
		1	214	19.07	19.01	18.92	17.03	16.93	16.68	18.57	18.71	18.55	17.20	16.79	16.75			
		1	215	19.07	19.03	18.66	16.92	17.26	16.87	18.07	18.18	18.56	16.98	16.96	16.55			
		108	54	18.99	18.91	18.83	16.97	16.75	16.99	18.51	18.47	18.44	16.96	16.91	16.71			
		216	0	18.98	19.01	18.91	17.05	16.73	17.02	18.46	18.51	18.45	16.93	16.92	16.76			

8.3. LTE BAND 12 AND 5G NR n12

LTE BAND 12

Test Engineer ID:	10646	Test Date:	3/16/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23017 699.7 MHz	23095 707.5 MHz	23173 715.3 MHz	23017 699.7 MHz	23095 707.5 MHz	23173 715.3 MHz
1.4	QPSK	1	0	25.59	25.60	25.57	24.70	24.60	24.52
		1	2	25.70	25.70	25.63	24.68	24.63	24.58
		1	5	25.62	25.60	25.56	24.61	24.53	24.54
		3	0	25.56	25.53	25.43	24.59	24.57	24.51
		3	1	25.61	25.54	25.49	24.65	24.60	24.59
		3	2	25.55	25.55	25.55	24.62	24.60	24.62
	6	0	24.67	24.60	24.58	23.70	23.61	23.60	
	16QAM	1	0	24.73	25.03	24.63	23.73	24.12	23.66
		1	2	24.86	25.11	24.74	23.84	24.19	23.77
		1	5	24.80	24.99	24.69	23.81	24.10	23.71
		3	0	24.71	24.81	24.75	23.79	23.82	23.81
		3	1	24.72	24.84	24.76	23.82	23.86	23.89
		3	2	24.69	24.83	24.84	23.79	23.86	23.89
	64QAM	6	0	23.76	23.52	23.69	22.82	22.53	22.81
		1	0	24.03	23.78	23.81	23.08	22.82	22.82
		1	2	24.17	23.89	23.93	23.23	22.87	22.93
		1	5	24.02	23.77	23.87	23.06	22.75	22.89
		3	0	23.98	23.74	23.55	23.04	22.79	22.52
		3	1	23.94	23.82	23.57	23.04	22.85	22.68
	256QAM	3	2	23.96	23.79	23.62	23.05	22.82	22.65
		6	0	22.59	22.90	22.67	21.71	21.96	21.77
		1	0	20.69	20.43	20.47	19.76	19.49	19.52
		1	2	20.76	20.53	20.60	19.89	19.55	19.64
		1	5	20.62	20.50	20.49	19.75	19.53	19.81
3		0	20.76	20.74	20.63	19.80	19.74	19.68	
1.4	256QAM	3	1	20.79	20.73	20.70	19.82	19.75	19.78
		3	2	20.77	20.74	20.68	19.78	19.74	19.75
		6	0	20.68	20.68	20.63	19.69	19.63	19.72

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23025 700.5 MHz	23095 707.5 MHz	23165 714.5 MHz	23025 700.5 MHz	23095 707.5 MHz	23165 714.5 MHz
3.0	QPSK	1	0	25.61	25.70	25.64	24.70	24.61	24.57
		1	7	25.56	25.64	25.58	24.62	24.51	24.58
		1	14	25.60	25.67	25.62	24.66	24.54	24.58
		8	0	24.72	24.66	24.57	23.68	23.72	23.64
		8	4	24.64	24.61	24.60	23.70	23.67	23.72
		8	7	24.60	24.61	24.58	23.69	23.62	23.64
	16QAM	15	0	24.65	24.67	24.63	23.74	23.66	23.63
		1	0	24.67	25.11	24.72	24.11	23.75	23.67
		1	7	24.63	25.06	24.63	24.07	23.69	23.63
		1	14	24.57	25.02	24.70	24.09	23.69	23.59
		8	0	23.78	23.74	23.66	22.77	22.74	22.75
		8	4	23.80	23.77	23.71	22.85	22.73	22.83
	64QAM	8	7	23.74	23.68	23.65	22.78	22.69	22.75
		15	0	23.69	23.70	23.61	22.78	22.65	22.71
		1	0	23.97	23.81	23.92	22.87	23.01	23.01
		1	7	23.93	23.81	23.85	22.83	22.96	22.93
		1	14	23.97	23.81	23.86	22.86	22.82	22.98
		8	0	22.82	22.76	22.57	21.76	21.66	21.77
	256QAM	8	4	22.77	22.75	22.63	21.82	21.68	21.78
		8	7	22.74	22.68	22.59	21.79	21.64	21.77
		15	0	22.67	22.71	22.70	21.84	21.74	21.64
		1	0	21.23	20.54	20.63	19.63	19.60	20.28
		1	7	21.17	20.47	20.56	19.49	19.59	20.21
		1	14	21.21	20.49	20.57	19.54	19.55	20.24
3.0	256QAM	8	0	20.80	20.69	20.69	19.67	19.77	19.74
		8	4	20.80	20.65	20.71	19.72	19.73	19.83
		8	7	20.73	20.61	20.71	19.68	19.70	19.73
	15	0	20.71	20.71	20.67	19.79	19.71	19.71	

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23035 701.5 MHz	23095 707.5 MHz	23155 713.5 MHz	23035 701.5 MHz	23095 707.5 MHz	23155 713.5 MHz
5.0	QPSK	1	0	25.70	25.65	25.59	24.63	24.63	24.70
		1	12	25.64	25.62	25.66	24.58	24.58	24.65
		1	24	25.63	25.67	25.64	24.58	24.58	24.70
		12	0	24.76	24.70	24.70	23.66	23.63	23.63
		12	6	24.74	24.73	24.72	23.72	23.66	23.67
		12	11	24.69	24.73	24.69	23.70	23.60	23.64
		25	0	24.71	24.74	24.76	23.71	23.69	23.69
	16QAM	1	0	25.00	25.24	24.83	24.24	23.80	23.75
		1	12	24.77	25.22	24.83	24.15	23.72	23.80
		1	24	24.85	25.26	24.85	24.16	23.75	23.81
		12	0	23.84	23.83	23.83	22.84	22.74	22.74
		12	6	23.89	23.90	23.87	22.87	22.77	22.74
		12	11	23.85	23.85	23.79	22.84	22.70	22.71
		25	0	23.81	23.77	23.71	22.79	22.61	22.71
	64QAM	1	0	23.73	24.18	23.97	23.12	22.99	22.58
		1	12	23.72	24.12	23.98	23.11	22.99	22.59
		1	24	23.66	24.09	24.07	23.03	22.93	22.65
		12	0	22.80	22.69	22.81	21.66	21.74	21.70
		12	6	22.79	22.71	22.86	21.69	21.77	21.75
		12	11	22.77	22.69	22.83	21.65	21.73	21.71
		25	0	22.77	22.70	22.81	21.71	21.72	21.67
	256QAM	1	0	20.36	21.09	20.56	19.89	19.56	19.28
		1	12	20.42	21.00	20.53	19.86	19.54	19.28
		1	24	20.34	20.90	20.66	19.86	19.57	19.26
		12	0	20.76	20.80	20.84	19.77	19.78	19.64
12		6	20.76	20.86	20.88	19.82	19.78	19.71	
12		11	20.74	20.80	20.82	19.77	19.77	19.65	
25		0	20.79	20.77	20.80	19.73	19.71	19.67	

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23060 704.0 MHz	23095 707.5 MHz	23130 711.0 MHz	23060 704.0 MHz	23095 707.5 MHz	23130 711.0 MHz
10.0	QPSK	1	0	25.69	25.70	25.68	24.70	24.55	24.58
		1	24	25.66	25.69	25.59	24.55	24.48	24.52
		1	49	25.69	25.70	25.62	24.63	24.49	24.55
		25	0	24.76	24.69	24.69	23.67	23.63	23.63
		25	12	24.78	24.79	24.71	23.74	23.67	23.71
		25	24	24.73	24.72	24.73	23.65	23.60	23.62
		50	0	24.74	24.80	24.75	23.70	23.68	23.69
	16QAM	1	0	24.71	25.18	24.79	24.11	23.70	23.65
		1	24	24.61	25.09	24.72	24.04	23.63	23.53
		1	49	24.73	25.15	24.72	24.03	23.62	23.54
		25	0	23.80	23.79	23.85	22.70	22.73	22.68
		25	12	23.80	23.82	23.81	22.77	22.77	22.75
		25	24	23.73	23.74	23.80	22.69	22.71	22.66
		50	0	23.74	23.80	23.76	22.75	22.71	22.66
	64QAM	1	0	24.06	23.86	23.91	22.79	22.80	22.89
		1	24	24.06	23.91	23.91	22.81	22.80	22.87
		1	49	24.06	23.90	23.86	22.73	22.83	22.94
		25	0	22.84	22.84	22.85	21.79	21.72	21.70
		25	12	22.81	22.96	22.83	21.86	21.76	21.77
		25	24	22.82	22.84	22.86	21.78	21.76	21.74
		50	0	22.79	22.84	22.71	21.79	21.69	21.75
	256QAM	1	0	21.30	20.53	20.61	19.45	19.55	20.19
		1	24	21.31	20.58	20.60	19.46	19.58	20.22
		1	49	21.36	20.60	20.69	19.49	19.58	20.27
		25	0	20.84	20.77	20.86	19.71	19.77	19.70
25		12	20.80	20.83	20.80	19.76	19.83	19.76	
25		24	20.79	20.80	20.87	19.71	19.75	19.75	
50		0	20.88	20.80	20.72	19.75	19.72	19.77	

5G NR n12

Test Engineer ID:	19467	Test Date:	3/4/2021
--------------------------	-------	-------------------	----------

OUTPUT POWER FOR 5G NR n12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz	140300 701.5 MHz	141500 707.5 MHz	142700 713.5 MHz
5.0	BPSK	1	0	25.19	24.76	24.93	24.14	24.08	23.86
		1	1	25.70	25.69	25.16	24.64	24.55	24.30
		1	23	25.23	25.37	25.36	24.43	24.34	24.10
		1	24	24.63	24.99	24.72	24.08	23.81	23.63
		12	6	25.30	25.43	25.26	24.67	24.41	24.24
	25	0	25.10	24.99	24.76	24.07	23.85	23.57	
	QPSK	1	0	24.54	24.26	23.86	23.63	23.53	23.32
		1	1	25.44	25.65	25.25	24.70	24.59	24.37
		1	23	25.62	25.39	25.36	24.48	24.49	24.24
		1	24	24.73	24.52	24.52	23.38	23.35	23.20
		12	6	25.59	25.52	25.48	24.53	24.44	24.29
	16QAM	25	0	24.52	24.39	24.40	23.61	23.42	23.23
		1	0	23.48	23.44	23.26	22.57	22.35	22.13
		1	1	24.55	24.36	24.01	23.58	23.47	23.26
		1	23	24.08	24.10	24.64	23.28	23.26	22.90
		1	24	23.42	23.22	22.97	22.40	22.31	22.14
	64QAM	12	6	24.51	24.55	24.35	23.50	23.41	23.21
		25	0	23.42	23.54	23.41	22.56	22.52	22.21
		1	0	23.14	22.69	22.91	22.22	21.98	21.88
		1	1	23.30	23.04	22.62	22.21	22.08	21.81
		1	23	23.23	23.30	22.92	22.13	21.98	21.68
	256QAM	1	24	23.20	22.67	22.78	22.00	21.94	21.66
		12	6	22.93	22.94	22.85	22.09	21.86	21.72
		25	0	22.93	23.00	22.86	22.04	21.92	21.66
		1	0	21.03	20.82	20.59	20.28	19.97	19.89
1		1	20.75	20.99	20.57	20.02	20.14	19.81	
256QAM	1	23	20.61	20.42	20.47	19.95	20.03	19.67	
	1	24	20.58	20.83	20.19	19.97	19.60	19.61	
	12	6	20.83	20.96	20.79	20.04	19.89	19.77	
	25	0	20.96	21.02	20.84	19.98	19.87	19.69	

OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				140800 704.0 MHz	141500 707.5 MHz	142200 711.0 MHz	140800 704.0 MHz	141500 707.5 MHz	142200 711.0 MHz
10.0	BPSK	1	0	24.88	24.61	24.83	24.15	24.10	24.04
		1	1	25.68	25.22	25.66	24.62	24.55	24.49
		1	50	25.49	25.37	25.66	24.60	24.38	24.33
		1	51	24.79	24.50	24.95	24.10	23.96	23.84
		25	12	25.32	25.30	25.56	24.55	24.47	24.32
	QPSK	50	0	24.89	24.89	25.07	23.95	23.93	23.94
		1	0	24.27	24.48	24.46	23.67	23.60	23.55
		1	1	25.37	24.98	25.36	24.67	24.66	24.61
		1	50	25.51	24.95	25.68	24.54	24.45	24.36
		1	51	24.34	24.34	24.56	23.44	23.39	23.27
	16QAM	25	12	25.29	25.37	25.70	24.44	24.56	24.45
		50	0	24.43	24.33	24.40	23.55	23.52	23.51
		1	0	23.65	23.43	23.39	22.54	23.68	22.47
		1	1	24.19	24.45	24.89	23.48	24.70	23.48
		1	50	24.38	24.76	24.71	23.34	24.45	23.17
	64QAM	1	51	23.24	23.50	23.69	22.26	23.46	22.02
		25	12	24.20	24.30	24.46	23.60	24.51	23.49
		50	0	23.33	23.30	23.58	22.54	23.52	22.41
		1	0	23.18	23.09	23.00	22.15	21.54	22.13
		1	1	22.85	22.89	23.36	22.20	23.49	22.12
	256QAM	1	50	23.04	22.74	22.90	21.93	23.38	21.85
		1	51	22.73	23.04	22.86	22.14	22.25	21.82
		25	12	22.80	23.02	23.04	22.10	23.53	22.02
		50	0	22.67	22.90	23.01	21.99	21.96	21.96
		1	0	20.49	20.36	20.93	19.92	19.98	20.05
256QAM	1	1	20.02	21.02	20.72	20.18	20.11	20.31	
	1	50	21.04	20.41	20.74	19.87	20.07	19.95	
	1	51	20.73	20.71	20.91	20.05	19.91	19.96	
	25	12	20.83	21.01	21.13	20.02	19.98	19.93	
	50	0	20.68	20.93	20.97	20.05	19.98	19.92	

OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				141300	141500	141700	141300	141500	141700
15.0	BPSK	1	0	24.94	24.84	24.92	24.12	24.06	24.08
		1	1	25.13	25.33	25.37	24.62	24.63	24.61
		1	77	25.24	25.10	25.29	24.32	24.31	24.40
		1	78	24.84	24.66	24.53	23.81	23.89	23.83
		36	18	25.42	25.21	25.34	24.33	24.35	24.28
		75	0	24.68	24.89	24.74	23.81	23.80	23.81
	QPSK	1	0	24.20	24.46	24.15	22.89	23.57	23.67
		1	1	25.70	25.19	25.43	24.61	24.70	24.66
		1	77	25.10	25.24	25.28	24.32	24.30	24.35
		1	78	24.27	24.41	24.38	23.81	23.29	23.46
		36	18	25.46	25.37	25.44	24.37	24.33	24.31
		75	0	24.32	24.37	24.35	23.43	23.32	23.37
	16QAM	1	0	23.28	23.25	23.63	22.57	22.82	22.93
		1	1	24.75	24.44	24.27	23.55	23.87	23.73
		1	77	24.21	24.19	24.48	23.16	23.51	23.58
		1	78	23.32	23.30	23.32	22.26	22.65	22.41
		36	18	24.36	24.31	24.46	23.43	23.28	23.33
	64QAM	75	0	23.32	23.31	23.34	21.88	22.32	22.40
		1	0	23.13	23.53	23.16	22.33	22.21	22.47
		1	1	23.02	23.26	23.16	22.28	22.30	22.22
		1	77	22.88	23.02	22.69	22.02	22.07	21.93
		1	78	23.00	23.04	22.70	22.02	22.04	21.73
	256QAM	36	18	22.78	22.82	23.00	21.86	21.79	21.77
		75	0	22.78	22.86	22.83	21.90	21.88	21.77
		1	0	20.59	20.68	20.28	20.06	19.84	19.99
		1	1	20.79	20.63	20.82	19.90	20.04	20.07
		1	77	20.48	20.73	20.53	19.93	19.94	19.58
		1	78	20.82	20.48	20.19	19.65	19.54	19.63
		36	18	20.89	20.91	20.82	19.90	19.90	19.82
		75	0	20.79	20.86	20.83	19.86	19.81	19.81

8.4. LTE BAND 13

Test Engineer ID:	10646	Test Date:	3/3/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23205	23230	23255	23205	23230	23255
5.0	QPSK	1	0	25.70	25.62	25.55	24.59	24.66	24.61
		1	12	25.64	25.55	25.57	24.60	24.61	24.58
		1	24	25.66	25.61	25.64	24.66	24.70	24.66
		12	0	24.86	24.79	24.80	23.74	23.67	23.74
		12	6	24.87	24.78	24.76	23.75	23.74	23.70
		12	11	24.82	24.77	24.78	23.74	23.71	23.71
		25	0	24.88	24.80	24.77	23.82	23.77	23.70
	16QAM	1	0	24.61	25.20	24.77	23.77	23.79	24.13
		1	12	25.00	25.20	24.82	23.96	23.78	24.13
		1	24	24.89	25.22	24.84	23.73	23.87	24.15
		12	0	23.92	23.94	23.85	22.86	22.79	22.88
		12	6	23.93	23.96	23.88	22.83	22.86	22.87
		12	11	23.94	23.94	23.87	22.79	22.83	22.90
		25	0	23.88	23.86	23.71	22.75	22.75	22.77
	64QAM	1	0	22.22	24.14	23.91	22.76	22.60	22.99
		1	12	23.66	24.07	24.06	23.05	22.64	23.07
		1	24	23.76	24.12	24.03	22.96	22.72	23.04
		12	0	22.03	22.73	22.88	21.82	21.77	21.68
		12	6	22.93	22.78	22.86	21.89	21.78	21.68
		12	11	22.90	22.75	22.88	21.89	21.77	21.69
		25	0	22.89	22.81	22.81	21.85	21.76	21.71
	256QAM	1	0	20.28	21.19	20.55	19.58	19.26	19.73
		1	12	20.30	20.79	20.62	19.59	19.34	19.86
		1	24	20.51	21.13	20.77	19.68	19.39	20.12
		12	0	20.75	20.83	20.84	19.81	19.71	19.80
12		6	20.80	20.88	20.81	19.87	19.77	19.77	
12		11	20.77	20.89	20.89	19.87	19.75	19.81	
25		0	20.87	20.83	20.78	19.82	19.78	19.80	

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0	25.70			24.65		
		1	24	25.58			24.66		
		1	49	25.68			24.70		
		25	0	24.78			23.72		
		25	12	24.82			23.82		
		25	24	24.75			23.79		
		50	0	24.88			23.88		
	16QAM	1	0	24.72			24.13		
		1	24	24.68			24.07		
		1	49	24.81			24.19		
		25	0	23.88			22.79		
		25	12	23.92			22.85		
		25	24	23.87			22.89		
		50	0	23.86			22.85		
	64QAM	1	0	22.66			22.92		
		1	24	23.90			22.89		
		1	49	23.93			22.92		
		25	0	22.84			21.86		
		25	12	22.91			21.94		
		25	24	22.87			21.88		
		50	0	22.89			21.90		
	256QAM	1	0	20.55			19.50		
		1	24	20.69			19.50		
		1	49	20.98			19.71		
		25	0	20.86			19.83		
25		12	20.94			19.90			
25		24	20.89			19.86			
50		0	20.87			19.88			

8.5. LTE BAND 14

Test Engineer ID:	10646	Test Date:	3/3/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23305 790.5 MHz	23330 793.0 MHz	23355 795.5 MHz	23305 790.5 MHz	23330 793.0 MHz	23355 795.5 MHz
5.0	QPSK	1	0	25.62	25.63	25.62	24.67	24.69	24.54
		1	12	25.66	25.64	25.70	24.69	24.70	24.60
		1	24	25.64	25.65	25.66	24.60	24.69	24.64
		12	0	24.79	24.74	24.73	23.75	23.68	23.60
		12	6	24.83	24.77	24.75	23.76	23.72	23.67
		12	11	24.76	24.73	24.79	23.73	23.65	23.65
	16QAM	25	0	24.80	24.76	24.80	23.71	23.70	23.67
		1	0	24.76	24.81	25.18	23.79	23.75	24.09
		1	12	24.89	24.88	25.29	23.83	23.80	24.18
		1	24	24.94	24.88	25.24	23.79	23.82	24.19
		12	0	23.89	23.85	23.89	22.80	22.82	22.77
		12	6	23.91	23.86	23.94	22.82	22.81	22.81
	64QAM	12	11	23.86	23.82	23.93	22.81	22.75	22.85
		25	0	23.74	23.78	23.87	22.71	22.73	22.73
		1	0	23.95	23.69	24.12	22.93	22.62	23.01
		1	12	24.03	23.69	24.23	22.98	22.67	23.07
		1	24	24.10	23.71	24.14	23.00	22.65	23.02
		12	0	22.89	22.84	22.71	21.85	21.80	21.59
	256QAM	12	6	22.91	22.87	22.73	21.85	21.77	21.63
		12	11	22.91	22.78	22.73	21.80	21.74	21.66
		25	0	22.85	22.78	22.77	21.76	21.70	21.68
		1	0	20.62	20.33	21.07	19.56	19.30	20.00
		1	12	20.64	20.41	21.14	19.61	19.36	19.89
		1	24	20.68	20.37	20.97	19.63	19.30	19.74

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				N/A	23330 793.0 MHz	N/A	N/A	23330 793.0 MHz	N/A
10.0	QPSK	1	0		25.68			24.70	
		1	24		25.66			24.60	
		1	49		25.70			24.60	
		25	0		24.64			23.67	
		25	12		24.73			23.72	
		25	24		24.74			23.68	
		50	0		24.75			23.69	
	16QAM	1	0		25.15			24.12	
		1	24		25.08			24.06	
		1	49		25.15			24.08	
		25	0		23.75			22.69	
		25	12		23.81			22.79	
		25	24		23.77			22.71	
	64QAM	50	0		23.80			22.78	
		1	0		23.90			22.88	
		1	24		23.85			22.84	
		1	49		23.94			22.89	
		25	0		22.76			21.72	
		25	12		22.83			21.81	
	256QAM	25	24		22.85			21.81	
		50	0		22.82			21.81	
		1	0		20.47			19.46	
		1	24		20.47			19.52	
		1	49		20.58			19.58	
		25	0		20.71			19.73	
25	12		20.78			19.81			
25	24		20.79			19.78			
50	0		20.77			19.75			

8.6. LTE BAND 17

Test Engineer ID:	10646	Test Date:	3/3/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23755	23790	23825	23755	23790	23825
5.0	QPSK	1	0	25.66	25.59	25.53	24.50	24.56	24.69
		1	12	25.62	25.58	25.58	24.51	24.59	24.65
		1	24	25.70	25.61	25.62	24.60	24.65	24.70
		12	0	24.68	24.71	24.68	23.63	23.59	23.63
		12	6	24.74	24.76	24.71	23.66	23.67	23.64
		12	11	24.75	24.76	24.75	23.65	23.65	23.65
		25	0	24.76	24.74	24.66	23.64	23.63	23.59
	16QAM	1	0	24.92	25.18	24.76	24.14	23.73	23.78
		1	12	24.84	25.22	24.78	24.13	23.73	23.77
		1	24	24.95	25.27	24.83	24.19	23.78	23.83
		12	0	23.77	23.85	23.73	22.76	22.65	22.72
		12	6	23.86	23.90	23.74	22.81	22.74	22.73
		12	11	23.84	23.89	23.81	22.80	22.71	22.74
		25	0	23.80	23.79	23.65	22.73	22.62	22.62
	64QAM	1	0	23.61	24.10	23.94	23.01	22.90	22.56
		1	12	23.67	24.06	23.97	23.03	22.93	22.61
		1	24	23.76	24.10	24.01	23.11	22.94	22.61
		12	0	22.70	22.66	22.78	21.58	21.71	21.66
		12	6	22.85	22.70	22.79	21.67	21.79	21.66
		12	11	22.80	22.69	22.85	21.64	21.76	21.68
		25	0	22.77	22.71	22.71	21.65	21.72	21.62
	256QAM	1	0	20.27	20.97	20.52	19.89	19.52	19.22
		1	12	20.34	20.90	20.51	19.84	19.52	19.28
		1	24	20.39	20.93	20.67	19.89	19.57	19.29
		12	0	20.68	20.79	20.83	19.70	19.76	19.60
12		6	20.73	20.85	20.83	19.75	19.81	19.62	
12		11	20.72	20.85	20.87	19.75	19.76	19.65	
25		0	20.79	20.79	20.73	19.70	19.71	19.60	

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				23780	23790	23800	23780	23790	23800
10.0	QPSK	1	0	25.64	25.70	25.69	24.70	24.58	24.65
		1	24	25.56	25.60	25.62	24.62	24.54	24.54
		1	49	25.59	25.66	25.63	24.64	24.58	24.59
		25	0	24.60	24.66	24.63	23.63	23.64	23.67
		25	12	24.74	24.76	24.66	23.76	23.77	23.75
		25	24	24.71	24.74	24.74	23.72	23.70	23.73
		50	0	24.76	24.72	24.73	23.74	23.74	23.69
	16QAM	1	0	24.72	24.72	25.16	24.13	23.75	23.70
		1	24	24.68	24.58	25.08	24.09	23.68	23.60
		1	49	24.67	24.59	25.06	24.12	23.70	23.64
		25	0	23.69	23.70	23.68	22.72	22.70	22.70
		25	12	23.81	23.78	23.69	22.84	22.88	22.79
		25	24	23.79	23.73	23.76	22.76	22.82	22.77
		50	0	23.77	23.72	23.74	22.79	22.76	22.62
	64QAM	1	0	23.82	23.94	23.75	22.80	22.88	22.99
		1	24	23.85	24.00	23.85	22.91	22.91	22.99
		1	49	23.89	23.90	23.87	22.91	22.89	23.00
		25	0	22.73	22.71	22.78	21.77	21.72	21.72
		25	12	22.87	22.81	22.79	21.88	21.88	21.83
		25	24	22.87	22.81	22.83	21.88	21.91	21.85
		50	0	22.75	22.76	22.79	21.80	21.76	21.68
	256QAM	1	0	20.62	21.17	20.40	19.41	19.50	20.21
		1	24	20.60	21.33	20.50	19.46	19.59	20.36
		1	49	20.75	21.32	20.57	19.60	19.69	20.34
		25	0	20.75	20.69	20.69	19.72	19.76	19.70
25		12	20.87	20.82	20.72	19.78	19.87	19.81	
25		24	20.83	20.83	20.77	19.80	19.85	19.84	
50		0	20.76	20.78	20.74	19.74	19.78	19.77	

8.7. LTE BAND 25 AND 5G NR n25

LTE BAND 25

Test Engineer ID:	10646	Test Date:	3/16/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)												
				ANT 1			ANT 2			ANT 3			ANT 4			
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683	
1.4	QPSK	1	0	25.45	25.42	25.53	23.52	23.51	23.57	24.98	25.09	25.10	23.61	23.65	23.58	
		1	2	25.51	25.55	25.64	23.61	23.57	23.70	25.03	25.12	25.20	23.70	23.69	23.60	
		1	5	25.52	25.55	25.70	23.59	23.55	23.69	25.03	25.11	25.15	23.68	23.70	23.65	
		3	0	25.41	25.39	25.49	23.58	23.50	23.55	24.90	25.00	25.07	23.59	23.55	23.51	
		3	1	25.49	25.50	25.58	23.60	23.57	23.63	24.97	25.08	25.16	23.61	23.63	23.57	
		3	2	25.49	25.49	25.64	23.59	23.58	23.65	25.00	25.08	25.17	23.64	23.65	23.56	
	16QAM	6	0	24.53	24.44	24.62	22.59	22.58	22.62	24.00	24.08	24.10	22.67	22.63	22.60	
		1	0	24.63	24.82	24.62	22.97	22.63	22.73	24.11	24.17	24.46	22.72	22.99	22.66	
		1	2	24.67	24.99	24.75	23.13	22.70	22.81	24.15	24.25	24.60	22.87	23.08	22.73	
		1	5	24.72	24.95	24.79	23.09	22.71	22.84	24.19	24.29	24.57	22.85	23.05	22.74	
		3	0	24.57	24.68	24.79	22.80	22.80	22.70	24.07	24.15	24.32	22.72	22.88	22.79	
		3	1	24.62	24.80	24.86	22.83	22.84	22.79	24.12	24.21	24.42	22.81	22.90	22.84	
	64QAM	3	2	24.65	24.81	24.96	22.87	22.82	22.82	24.12	24.20	24.44	22.84	22.96	22.92	
		6	0	23.68	23.42	23.75	21.54	21.81	21.76	23.16	23.24	23.06	21.80	21.59	21.79	
		1	0	23.91	23.67	23.80	21.78	21.84	22.04	24.08	24.10	24.12	22.09	21.82	21.81	
		1	2	24.06	23.84	23.93	21.89	21.91	22.24	24.20	24.22	24.27	22.21	21.91	21.92	
		1	5	23.98	23.74	23.94	21.80	21.91	22.14	24.18	24.21	24.26	22.19	21.85	21.89	
		3	0	23.85	23.65	23.54	21.77	21.62	21.94	23.98	24.18	24.19	21.98	21.82	21.58	
	256QAM	3	1	23.91	23.79	23.63	21.85	21.67	22.04	24.04	24.26	24.31	22.01	21.90	21.64	
		3	2	23.94	23.78	23.68	21.81	21.68	22.12	24.05	24.25	24.31	22.04	21.89	21.70	
		6	0	22.54	22.87	22.73	21.01	20.76	20.65	23.07	23.06	23.06	20.74	21.05	20.77	
		1	0	20.56	20.29	20.43	18.46	18.52	18.69	19.76	20.10	20.09	18.78	18.47	18.49	
		1	2	20.84	20.46	20.57	18.56	18.64	18.94	19.99	20.22	20.27	18.91	18.52	18.62	
		1	5	20.72	20.41	20.57	18.57	18.65	18.83	20.01	20.18	20.24	18.85	18.55	18.58	
	3.0	QPSK	3	0	20.63	20.55	20.59	18.71	18.67	18.75	19.99	20.18	20.19	18.77	18.77	18.69
			3	1	20.66	20.70	20.67	18.79	18.74	18.86	20.02	20.24	20.29	18.80	18.77	18.74
			3	2	20.68	20.69	20.74	18.77	18.75	18.84	20.07	20.29	20.31	18.83	18.78	18.73
			6	0	20.56	20.53	20.61	18.68	18.78	18.70	20.22	20.21	20.18	18.74	18.71	18.73
			1	0	25.33	25.39	25.36	23.51	23.54	23.56	24.94	25.04	25.14	23.44	23.48	23.43
			1	7	25.42	25.51	25.51	23.59	23.50	23.64	24.99	25.07	25.12	23.55	23.55	23.52
		16QAM	1	14	25.45	25.58	25.70	23.63	23.60	23.70	25.14	25.15	25.20	23.62	23.70	23.59
			8	0	24.46	24.42	24.46	22.61	22.60	22.70	24.10	24.16	24.17	22.58	22.51	22.50
			8	4	24.52	24.50	24.65	22.64	22.65	22.75	24.18	24.21	24.24	22.63	22.63	22.58
			8	7	24.51	24.52	24.64	22.67	22.69	22.77	24.21	24.21	24.28	22.70	22.63	22.61
			15	0	24.49	24.49	24.59	22.63	22.66	22.75	24.15	24.20	24.22	22.63	22.55	22.54
			1	0	24.39	24.79	24.55	22.95	22.62	22.63	24.05	24.16	24.24	22.44	22.84	22.56
	64QAM	1	7	24.44	24.89	24.64	22.96	22.62	22.62	24.14	24.15	24.21	22.54	22.96	22.55	
		1	14	24.47	24.94	24.78	23.08	22.77	22.71	24.21	24.31	24.36	22.61	23.05	22.68	
		8	0	23.53	23.53	23.57	21.69	21.68	21.79	23.13	23.17	23.25	21.62	21.55	21.54	
		8	4	23.60	23.59	23.75	21.74	21.76	21.87	23.21	23.24	23.30	21.72	21.72	21.62	
		8	7	23.60	23.66	23.76	21.71	21.79	21.82	23.25	23.27	23.33	21.72	21.73	21.67	
		15	0	23.56	23.49	23.60	21.71	21.64	21.78	23.15	23.17	23.18	21.68	21.59	21.55	
	256QAM	1	0	23.69	23.58	23.70	21.70	21.86	21.94	24.10	24.19	24.25	21.77	21.65	21.74	
		1	7	23.78	23.63	23.80	21.85	21.84	21.98	24.08	24.12	24.17	21.89	21.73	21.82	
		1	14	23.85	23.78	23.96	21.87	21.95	22.09	24.25	24.25	24.34	21.98	21.84	21.90	
		8	0	22.58	22.50	22.40	20.70	20.61	20.79	23.14	23.18	23.24	20.70	20.61	20.45	
		8	4	22.65	22.58	22.59	20.76	20.65	20.91	23.23	23.25	23.32	20.74	20.74	20.59	
		8	7	22.63	22.66	22.66	20.78	20.66	20.87	23.28	23.30	23.34	20.79	20.78	20.63	
3.0	256QAM	15	0	22.49	22.55	22.66	20.72	20.75	20.80	23.14	23.21	23.25	20.67	20.66	20.62	
		1	0	20.96	20.30	20.33	18.41	18.56	19.23	20.04	20.11	20.19	19.10	18.38	18.44	
		1	7	21.11	20.35	20.43	18.63	18.53	19.24	20.12	20.12	20.18	19.20	18.44	18.44	
		1	14	21.12	20.46	20.62	18.57	18.66	19.33	20.26	20.28	20.31	19.22	18.52	18.63	
		8	0	20.55	20.45	20.51	18.64	18.70	18.77	20.24	20.29	20.34	18.66	18.55	18.59	
		8	4	20.62	20.54	20.68	18.71	18.77	18.89	20.34	20.34	20.41	18.76	18.66	18.63	
8	7	20.65	20.56	20.71	18.67	18.83	18.89	20.38	20.41	20.42	18.76	18.64	18.73			
15	0	20.56	20.58	20.61	18.76	18.77	18.77	20.26	20.29	20.33	18.69	18.65	18.56			

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
5.0	QPSK	1	0	25.52	25.56	25.43	23.46	23.47	23.60	25.00	25.03	25.11	23.63	23.58	23.66
		1	12	25.50	25.50	25.57	23.46	23.57	23.65	25.06	25.07	25.17	23.62	23.70	23.70
		1	24	25.56	25.56	25.70	23.52	23.57	23.70	25.15	25.13	25.20	23.67	23.70	23.68
		12	0	24.57	24.52	24.52	22.52	22.48	22.55	24.00	24.01	24.07	22.74	22.64	22.62
		12	6	24.61	24.60	24.69	22.56	22.60	22.62	24.11	24.13	24.14	22.79	22.74	22.75
	16QAM	12	11	24.57	24.66	24.75	22.58	22.63	22.71	24.17	24.16	24.20	22.87	22.82	22.78
		25	0	24.59	24.58	24.66	22.57	22.56	22.59	24.08	24.08	24.11	22.79	22.71	22.76
		1	0	24.75	25.06	24.63	23.02	22.61	22.73	24.16	24.22	24.21	23.21	22.81	22.89
		1	12	24.70	25.11	24.73	23.03	22.64	22.79	24.18	24.19	24.29	23.27	22.86	22.91
		1	24	24.76	25.15	24.91	23.05	22.73	22.88	24.25	24.30	24.39	23.26	22.93	22.98
	64QAM	12	0	23.69	23.68	23.61	21.68	21.54	21.60	23.06	23.07	23.15	21.94	21.77	21.76
		12	6	23.70	23.72	23.76	21.78	21.68	21.74	23.15	23.17	23.21	22.00	21.82	21.84
		12	11	23.74	23.80	23.84	21.79	21.67	21.82	23.22	23.21	23.27	22.00	21.91	21.96
		25	0	23.63	23.66	23.66	21.64	21.54	21.65	23.05	23.05	23.08	21.86	21.68	21.76
		1	0	23.51	23.94	23.84	21.89	21.80	21.55	24.13	24.15	24.22	22.13	22.04	21.74
	256QAM	1	12	23.56	23.96	24.02	21.90	21.81	21.59	24.16	24.19	24.29	22.14	22.11	21.74
		1	24	23.59	23.98	24.08	21.93	21.89	21.62	24.24	24.27	24.33	22.20	22.09	21.78
		12	0	22.61	22.50	22.66	20.54	20.61	20.60	22.98	23.01	23.06	20.76	20.85	20.73
		12	6	22.68	22.56	22.81	20.60	20.71	20.67	23.09	23.14	23.11	20.82	20.87	20.82
		12	11	22.68	22.65	22.86	20.57	20.74	20.74	23.12	23.16	23.19	20.78	20.98	20.89

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
10.0	QPSK	1	0	25.66	25.65	25.58	23.65	23.59	23.60	25.11	25.12	24.99	23.70	23.65	23.60
		1	24	25.53	25.59	25.49	23.58	23.50	23.59	25.13	25.10	25.02	23.67	23.67	23.46
		1	49	25.59	25.60	25.70	23.70	23.61	23.69	25.14	25.16	25.20	23.69	23.65	23.63
		25	0	24.56	24.61	24.57	22.68	22.63	22.68	24.17	24.15	24.08	22.67	22.62	22.60
		25	12	24.60	24.58	24.51	22.70	22.73	22.67	24.29	24.27	24.22	22.79	22.68	22.72
	16QAM	25	24	24.59	24.65	24.66	22.71	22.71	22.80	24.30	24.28	24.22	22.77	22.75	22.72
		50	0	24.59	24.57	24.58	22.70	22.72	22.69	24.30	24.28	24.20	22.76	22.64	22.70
		1	0	24.55	25.09	24.53	23.07	22.70	22.63	24.25	24.26	24.07	22.67	23.09	22.62
		1	24	24.46	24.98	24.57	23.00	22.62	22.58	24.18	24.22	24.04	22.61	23.09	22.70
		1	49	24.49	25.05	24.76	23.08	22.66	22.71	24.31	24.30	24.18	22.64	22.71	23.20
	64QAM	25	0	23.60	23.66	23.65	21.71	21.73	21.72	23.30	23.27	23.14	21.81	21.76	21.67
		25	12	23.65	23.63	23.67	21.74	21.79	21.71	23.40	23.37	23.25	21.90	21.76	21.79
		25	24	23.64	23.67	23.83	21.75	21.83	21.82	23.41	23.36	23.29	21.85	21.82	21.81
		50	0	23.59	23.60	23.63	21.73	21.79	21.68	23.33	23.32	23.23	21.76	21.69	21.76
		1	0	23.88	23.83	23.84	21.86	21.82	21.89	24.24	24.27	24.23	21.96	21.99	21.82
	256QAM	1	24	23.82	23.85	23.80	21.81	21.88	21.96	24.20	24.23	24.16	21.91	22.01	21.86
		1	49	23.88	23.80	23.90	21.85	21.88	22.06	24.30	24.33	24.27	21.93	22.02	21.91
		25	0	22.62	22.71	22.70	20.80	20.78	20.74	23.26	23.26	23.19	20.79	20.79	20.82
		25	12	22.69	22.75	22.68	20.82	20.85	20.77	23.38	23.34	23.29	20.85	20.79	20.89
		25	24	22.62	22.81	22.82	20.83	20.86	20.88	23.36	23.36	23.33	20.89	20.83	20.87

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	25.52	25.69	25.70	23.56	23.68	23.70	24.99	25.09	25.20	23.53	23.70	23.55
		1	37	25.42	25.56	25.51	23.48	23.58	23.52	24.99	25.00	25.08	23.48	23.59	23.53
		1	74	25.44	25.53	25.63	23.60	23.64	23.60	25.02	25.07	25.07	23.48	23.56	23.51
		36	0	24.46	24.57	24.62	22.56	22.62	22.68	23.99	24.00	24.08	22.53	22.55	22.58
		36	16	24.51	24.54	24.56	22.65	22.59	22.75	24.07	24.09	24.07	22.62	22.56	22.63
		36	35	24.46	24.53	24.53	22.61	22.64	22.69	24.04	24.07	24.12	22.59	22.57	22.57
		75	0	24.49	24.52	24.57	22.60	22.67	22.72	24.03	24.07	24.07	22.59	22.54	22.65
		1	0	24.45	25.07	24.91	23.01	23.00	22.69	24.41	24.40	24.57	22.56	23.06	22.92
		1	37	24.41	24.98	24.95	22.98	23.11	22.62	24.40	24.39	24.48	22.59	23.05	22.91
	1	74	24.48	24.94	25.16	23.05	23.02	22.63	24.50	24.46	24.64	22.47	22.95	23.04	
	36	0	23.50	23.59	23.60	21.60	21.61	21.73	22.98	23.00	23.08	21.56	21.62	21.56	
	36	16	23.54	23.61	23.55	21.72	21.58	21.81	23.09	23.10	23.10	21.62	21.60	21.65	
	36	35	23.47	23.56	23.56	21.65	21.65	21.72	23.08	23.08	23.13	21.58	21.62	21.60	
	75	0	23.51	23.50	23.54	21.65	21.66	21.79	23.07	23.11	23.09	21.62	21.52	21.62	
	64QAM	1	0	23.77	23.81	24.22	21.69	22.18	22.02	24.44	24.50	24.59	21.85	21.83	22.13
	1	37	23.75	23.76	24.16	21.74	22.20	21.95	24.42	24.43	24.47	21.88	21.79	22.17	
	1	74	23.76	23.67	24.26	21.82	22.28	22.04	24.48	24.49	24.52	21.85	21.75	22.20	
	36	0	22.56	22.69	22.67	20.65	20.70	20.78	23.01	23.03	23.10	20.65	20.71	20.65	
	36	16	22.57	22.65	22.58	20.76	20.66	20.80	23.11	23.09	23.07	20.69	20.69	20.70	
	36	35	22.53	22.65	22.58	20.70	20.71	20.77	23.07	23.07	23.13	20.68	20.67	20.64	
	75	0	22.55	22.58	22.61	20.70	20.73	20.78	23.05	23.07	23.03	20.67	20.62	20.69	
	256QAM	1	0	21.03	20.41	20.95	18.36	19.01	19.27	20.25	20.32	20.36	19.11	18.41	18.98
	1	37	21.04	20.44	20.88	18.44	19.00	19.24	20.35	20.29	20.40	19.15	18.45	18.98	
	1	74	21.04	20.38	20.97	18.50	19.06	19.30	20.39	20.43	20.41	19.18	18.41	18.92	
	36	0	20.58	20.62	20.64	18.63	18.68	18.77	20.06	20.08	20.15	18.62	18.63	18.65	
	36	16	20.60	20.56	20.58	18.66	18.66	18.79	20.15	20.17	20.12	18.71	18.61	18.68	
	36	35	20.51	20.59	20.56	18.66	18.70	18.75	20.13	20.14	20.17	18.64	18.64	18.63	
	75	0	20.56	20.52	20.57	18.65	18.71	18.82	20.13	20.17	20.13	18.68	18.58	18.64	

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	25.60	25.70	25.66	23.62	23.68	23.70	24.98	25.07	25.20	23.56	23.70	23.61	
		1	49	25.45	25.61	25.60	23.57	23.55	23.57	25.01	25.01	25.06	23.57	23.63	23.59	
		1	99	25.63	25.56	25.64	23.62	23.65	23.61	25.04	25.13	25.10	23.64	23.53	23.60	
		50	0	24.59	24.68	24.79	22.55	22.63	22.71	24.04	24.04	24.12	22.68	22.71	22.71	
		50	24	24.66	24.63	24.78	22.67	22.70	22.76	24.14	24.12	24.11	22.79	22.71	22.69	
		50	49	24.65	24.67	24.69	22.69	22.66	22.69	24.17	24.12	24.13	22.77	22.73	22.68	
		100	0	24.68	24.65	24.77	22.67	22.71	22.78	24.12	24.13	24.12	22.74	22.67	22.66	
		16QAM	1	0	25.16	25.27	25.12	23.03	23.05	23.27	24.42	24.46	24.55	23.21	23.23	23.09
		1	49	25.09	25.11	25.06	23.02	22.99	23.22	24.46	24.47	24.53	23.19	23.09	23.02	
	1	99	25.21	25.05	25.14	23.15	23.10	23.24	24.49	24.53	24.56	23.27	23.09	23.07		
	50	0	23.65	23.73	23.76	21.60	21.64	21.77	23.03	23.06	23.12	21.73	21.75	21.68		
	50	24	23.72	23.71	23.79	21.71	21.69	21.82	23.13	23.16	23.10	21.83	21.73	21.68		
	50	49	23.70	23.71	23.71	21.74	21.67	21.77	23.11	23.13	23.15	21.82	21.77	21.72		
	100	0	23.74	23.66	23.82	21.69	21.75	21.82	23.10	23.16	23.16	21.82	21.68	21.69		
	64QAM	1	0	24.03	24.42	23.95	22.23	21.84	22.06	24.66	24.64	24.80	22.06	22.36	21.84	
	1	49	23.99	24.35	23.93	22.24	21.85	22.04	24.68	24.54	24.63	22.08	22.35	22.00		
	1	99	24.13	24.34	23.98	22.34	21.94	22.15	24.71	24.75	24.79	22.18	22.34	21.96		
	50	0	22.72	22.78	22.82	20.64	20.68	20.81	23.03	23.11	23.15	20.82	20.79	20.75		
	50	24	22.74	22.75	22.86	20.74	20.76	20.89	23.14	23.19	23.17	20.90	20.77	20.73		
	50	49	22.72	22.75	22.77	20.76	20.75	20.81	23.12	23.17	23.19	20.89	20.80	20.79		
	100	0	22.71	22.70	22.84	20.69	20.77	20.84	23.13	23.16	23.19	20.82	20.72	20.76		
	256QAM	1	0	20.83	20.90	20.71	18.67	18.66	18.91	20.01	20.01	20.13	18.86	18.90	18.74	
	1	49	20.80	20.85	20.82	18.76	18.69	18.97	20.06	20.05	20.06	18.93	18.87	18.79		
	1	99	20.88	20.82	20.66	18.86	18.73	18.92	20.08	20.12	20.06	18.89	18.85	18.67		
	50	0	20.70	20.79	20.83	18.63	18.72	18.78	20.16	20.18	20.24	18.78	18.78	18.80		
	50	24	20.74	20.74	20.88	18.73	18.80	18.83	20.23	20.25	20.22	18.83	18.75	18.78		
	50	49	20.68	20.77	20.79	18.72	18.76	18.75	20.19	20.25	20.25	18.80	18.76	18.78		
	100	0	20.69	20.72	20.86	18.71	18.77	18.82	20.22	20.24	20.21	18.79	18.75	18.74		

5G NR n25

Test Engineer ID:	10646	Test Date:	5/24/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR 5G NR n25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				370500	376500	382500	370500	376500	382500	370500	376500	382500	370500	376500	382500
5.0	BPSK	1	0	25.06	25.05	24.85	22.89	23.05	23.16	24.49	24.71	24.58	23.16	23.10	22.84
		1	1	25.55	25.70	25.36	23.66	23.45	23.50	25.04	25.06	25.13	23.47	23.41	23.44
		1	23	25.64	25.62	25.60	23.61	23.67	23.70	24.90	25.12	25.17	23.65	23.54	23.54
		1	24	25.04	25.14	24.88	23.04	23.23	23.14	24.18	24.81	24.72	23.06	23.06	23.03
		12	6	22.55	25.53	25.34	23.36	23.59	23.52	24.90	24.98	25.20	23.58	23.54	23.44
		25	0	24.97	24.95	24.80	22.85	23.03	23.07	24.42	24.45	24.51	23.06	22.97	22.86
	QPSK	1	0	24.52	24.67	24.33	22.36	22.38	22.58	23.84	23.98	24.04	22.67	22.98	22.64
		1	1	25.52	25.53	25.26	23.35	23.47	23.52	24.87	25.07	24.89	23.62	23.56	23.36
		1	23	25.57	25.61	25.47	23.60	23.52	23.68	25.05	25.10	25.15	23.70	23.57	23.68
		1	24	24.50	24.42	24.28	22.48	22.55	22.44	23.89	24.09	23.97	22.78	22.66	22.32
		12	6	25.37	25.48	25.27	23.48	23.58	23.53	24.92	25.01	25.07	23.53	23.60	23.29
		25	0	24.30	24.49	24.25	22.26	22.50	22.55	23.75	23.98	24.04	22.52	22.51	22.41
	16QAM	1	0	23.42	23.43	23.22	21.61	21.45	21.70	22.86	22.85	23.09	21.51	21.63	21.52
		1	1	24.62	24.54	24.11	22.47	22.71	22.69	23.76	24.22	24.16	22.62	22.47	22.29
		1	23	24.57	24.54	24.15	22.65	22.74	22.69	23.97	24.02	24.12	22.61	22.51	22.36
		1	24	23.49	23.61	23.16	21.71	21.65	21.54	23.03	23.03	23.26	21.44	21.73	21.29
		12	6	24.41	24.52	24.33	22.43	22.43	22.56	23.90	24.01	24.09	22.51	22.54	22.30
		25	0	23.46	23.55	23.39	21.13	21.58	21.67	23.00	23.08	23.18	21.59	21.54	21.38
	64QAM	1	0	23.07	23.09	23.08	21.41	21.02	21.11	22.38	22.48	22.15	21.12	21.14	20.96
		1	1	23.18	23.09	24.31	21.01	20.83	20.81	22.27	22.24	22.61	21.15	21.08	20.93
		1	23	23.37	22.95	22.94	21.44	21.05	20.92	22.57	22.66	22.67	21.04	21.01	20.97
		1	24	23.12	23.18	22.87	21.01	21.06	20.95	22.40	22.60	22.71	21.15	21.13	20.94
		12	6	22.91	22.83	22.74	20.86	20.76	21.02	22.36	22.47	22.57	21.04	21.02	20.87
		25	0	22.98	22.96	22.78	20.87	20.97	21.04	22.44	22.46	22.42	21.12	21.11	20.92
	256QAM	1	0	21.23	21.11	21.14	19.39	19.20	19.26	20.58	20.54	20.65	18.75	18.72	18.47
		1	1	21.32	21.19	21.09	19.01	19.34	19.26	20.41	20.67	20.64	18.62	18.69	18.53
		1	23	21.26	21.11	21.17	19.28	19.36	19.14	20.53	20.81	20.70	18.66	18.63	18.48
		1	24	21.13	21.10	21.30	19.19	19.32	19.18	20.73	20.70	20.59	18.84	18.72	18.70
		12	6	21.03	21.16	20.91	18.87	19.08	19.03	20.39	20.65	20.64	19.00	19.02	18.79
		25	0	20.93	20.97	20.72	18.83	19.03	19.06	20.44	20.56	20.57	19.10	19.16	19.04

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	24.92	24.85	25.06	23.06	23.00	22.99	24.26	24.61	24.61	23.09	23.26	23.19
		1	1	25.65	25.70	25.67	23.40	23.41	23.58	24.98	24.70	25.07	23.42	23.39	23.37
		1	50	25.47	25.45	25.53	23.66	23.70	23.41	25.18	25.07	25.06	23.70	23.56	23.35
		1	51	25.02	25.06	24.90	23.11	23.08	22.89	24.76	24.59	24.59	23.04	23.03	23.09
		25	12	25.46	25.49	25.31	23.52	23.40	23.52	24.96	25.02	25.12	23.62	23.51	23.30
		50	0	25.02	24.95	24.81	23.04	22.94	22.96	24.44	24.45	24.43	23.02	23.02	22.93
	QPSK	1	0	24.54	24.75	24.56	22.53	22.27	22.30	23.82	24.16	23.93	22.56	22.59	22.59
		1	1	25.51	25.53	25.49	23.38	23.61	23.47	25.01	25.13	24.93	23.36	23.48	23.40
		1	50	25.38	25.34	25.17	23.61	23.38	23.44	25.20	25.13	25.06	23.45	23.58	23.41
		1	51	24.55	24.38	24.38	22.77	22.58	22.69	24.11	24.09	24.13	22.77	22.46	22.45
		25	12	25.44	25.48	25.26	23.43	23.46	23.56	24.88	25.02	25.06	23.25	23.52	23.40
		50	0	24.39	24.45	24.32	22.52	22.44	22.51	23.89	24.01	24.01	22.40	22.55	22.42
	16QAM	1	0	23.62	23.39	23.85	21.62	21.63	21.50	22.79	22.84	23.12	21.71	21.70	21.49
		1	1	24.47	24.44	24.65	22.61	22.62	22.65	23.86	23.90	24.29	22.60	22.74	22.47
		1	50	24.29	24.25	23.93	22.72	22.35	22.48	24.27	23.76	24.24	22.53	22.67	22.72
		1	51	23.38	23.59	23.36	21.72	21.73	21.70	23.10	23.48	22.82	21.66	21.76	21.50
		25	12	24.42	24.42	24.38	22.60	22.37	22.51	23.97	24.07	24.11	22.27	22.49	22.30
		50	0	23.52	23.48	23.37	21.57	21.43	21.49	22.95	23.05	22.98	21.35	21.66	21.46
	64QAM	1	0	23.31	23.05	23.14	21.26	20.99	21.28	22.29	22.20	22.67	21.08	21.08	20.73
		1	1	23.27	23.16	22.93	21.04	21.05	21.11	22.33	22.38	22.47	20.92	20.94	20.74
		1	50	23.17	22.82	23.10	21.06	21.40	20.93	22.42	22.70	22.55	21.00	20.88	20.53
		1	51	23.44	22.70	22.96	20.95	21.17	21.33	22.43	22.65	22.75	21.03	20.88	20.96
		25	12	22.97	22.94	22.81	21.03	20.89	20.96	22.51	22.41	22.52	20.99	21.09	20.96
		50	0	22.97	23.04	22.85	21.01	21.13	21.03	22.49	22.60	22.59	21.00	21.16	20.97
	256QAM	1	0	21.38	21.28	21.16	19.21	18.86	19.07	20.64	20.62	20.66	18.98	18.52	18.83
		1	1	21.44	21.28	20.92	19.48	18.83	18.70	20.42	20.62	20.64	18.74	18.89	18.91
		1	50	21.45	21.27	21.15	19.18	19.39	19.08	20.35	20.60	20.43	18.82	18.97	18.84
		1	51	21.40	21.29	21.37	19.18	19.02	19.01	20.59	21.09	20.46	18.42	18.85	19.10
		25	12	20.92	20.92	20.81	19.06	19.05	19.01	20.49	20.50	20.51	19.09	18.99	18.98
		50	0	21.00	21.04	20.86	19.07	18.96	19.06	20.39	20.48	20.46	19.04	19.01	18.99

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	24.92	25.07	25.07	22.72	23.00	22.80	24.55	24.66	24.62	23.20	23.26	23.26
		1	1	25.54	25.70	25.35	23.41	23.36	23.54	25.18	25.00	25.06	23.52	23.44	23.57
		1	77	25.63	25.30	25.17	23.61	23.70	23.31	25.19	25.05	24.96	23.62	23.39	23.65
		1	78	24.80	24.74	24.64	23.12	23.15	22.74	24.52	24.46	24.54	23.37	23.32	22.99
		36	18	25.36	25.41	25.17	23.34	23.18	23.30	24.93	24.90	24.96	23.61	23.51	23.45
		75	0	24.79	24.85	24.70	22.95	22.89	22.85	24.41	24.43	24.36	23.07	23.09	22.42
	QPSK	1	0	24.44	24.62	24.00	22.44	22.53	22.44	23.86	24.02	24.18	22.84	22.67	22.49
		1	1	25.48	25.47	25.31	23.28	23.45	23.39	24.95	25.20	25.18	23.50	23.50	23.57
		1	77	25.42	25.23	25.13	23.51	23.56	23.36	24.86	24.99	25.03	23.64	23.34	23.70
		1	78	24.55	24.25	24.23	22.45	22.48	22.36	24.15	24.16	23.99	22.76	22.68	22.47
		36	18	25.29	25.37	25.26	23.38	23.31	23.34	24.97	24.97	24.95	23.22	23.64	23.56
		75	0	24.43	24.35	24.22	22.39	22.34	22.34	24.01	24.02	23.99	22.53	22.59	22.17
	16QAM	1	0	23.44	23.45	23.20	21.21	21.01	22.38	22.84	22.83	23.18	21.96	21.84	21.72
		1	1	24.66	24.44	24.39	22.29	22.40	22.29	24.02	24.01	24.29	22.87	22.76	22.55
		1	77	24.73	24.26	24.09	22.31	22.45	22.52	24.15	24.36	24.17	22.85	22.76	22.70
		1	78	23.47	23.34	23.21	21.44	21.78	21.38	23.22	23.30	23.29	21.96	21.74	21.71
		36	18	24.40	24.38	24.29	22.40	22.39	22.28	23.94	23.98	23.98	22.17	22.74	22.64
		75	0	23.45	23.40	23.23	21.45	21.48	21.35	22.97	23.02	22.98	21.43	21.66	21.34
	64QAM	1	0	23.03	23.24	23.02	21.19	21.12	21.18	22.45	22.86	22.15	21.19	21.18	21.27
		1	1	23.35	23.54	22.78	20.85	20.94	21.36	22.73	22.68	22.63	21.06	20.99	21.06
		1	77	23.21	23.04	22.64	21.36	20.98	21.11	22.66	22.64	22.82	20.97	21.31	21.05
		1	78	23.04	23.09	23.12	21.16	20.93	20.99	22.54	22.73	22.60	21.10	20.90	20.98
		36	18	22.90	22.85	22.82	20.95	20.92	20.95	22.36	22.34	22.39	20.82	21.12	21.05
		75	0	22.83	22.83	22.75	20.98	20.98	20.87	22.45	22.35	22.46	21.10	21.16	20.94
	256QAM	1	0	21.29	20.91	21.45	18.66	18.98	19.14	20.61	20.73	20.75	18.98	19.10	18.92
		1	1	21.38	21.10	21.14	19.01	18.89	18.95	20.29	20.74	20.78	18.87	19.12	18.97
		1	77	21.19	21.09	20.72	19.04	19.06	19.05	20.82	20.51	20.84	18.91	18.77	18.62
		1	78	20.94	21.32	21.30	18.93	18.86	19.03	20.82	20.89	20.53	18.90	18.77	19.08
		36	18	20.81	20.79	20.72	18.99	18.95	18.89	20.47	20.47	20.50	19.05	19.13	19.02
		75	0	20.82	20.84	20.77	18.89	18.90	18.82	20.43	20.46	20.48	19.20	19.00	18.98

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	25.08	25.15	24.90	23.11	22.56	22.98	24.53	24.48	24.65	23.14	23.11	23.05
		1	1	25.65	25.45	25.51	23.47	23.49	23.63	24.80	24.98	25.04	23.58	23.48	23.54
		1	104	25.66	25.23	25.23	23.47	23.43	23.23	25.20	25.02	25.03	23.58	23.58	23.50
		1	105	25.12	24.83	24.87	23.09	22.58	22.74	24.50	24.49	24.46	23.18	22.96	23.12
		50	25	25.37	25.41	25.37	23.36	23.40	23.41	24.98	24.93	24.98	23.54	23.55	23.39
		100	0	24.86	24.91	24.84	22.82	22.90	22.87	24.50	24.50	24.53	23.12	23.05	22.37
	QPSK	1	0	24.48	24.73	24.30	22.39	22.51	22.59	23.90	24.21	24.17	22.89	22.95	22.52
		1	1	25.70	25.36	25.32	23.70	23.38	23.56	24.98	24.95	25.12	23.59	23.55	23.70
		1	104	25.65	25.14	25.39	23.39	23.36	23.33	24.96	24.84	25.00	23.66	23.62	23.49
		1	105	24.41	24.48	24.35	22.56	22.50	22.23	24.13	23.95	23.93	22.49	22.64	22.57
		50	25	25.48	25.48	25.32	23.43	23.43	23.40	25.01	24.98	25.05	23.17	23.22	23.46
		100	0	24.44	24.41	24.31	22.44	22.48	22.33	23.95	23.95	24.04	22.56	22.56	22.42
	16QAM	1	0	23.86	23.61	23.26	21.23	21.48	21.49	23.13	23.05	23.18	21.73	22.09	21.68
		1	1	24.44	24.46	24.68	22.30	22.43	22.21	24.52	24.50	24.48	22.46	22.80	22.66
		1	104	24.81	23.89	24.61	22.21	22.37	22.16	23.89	23.93	24.09	22.78	22.45	22.59
		1	105	23.66	23.33	23.13	21.41	21.45	21.73	22.97	22.67	23.37	21.40	21.86	21.21
		50	25	24.54	24.52	24.37	22.29	22.46	22.51	24.07	23.97	23.95	22.36	22.35	22.49
		100	0	23.53	23.43	23.27	21.39	21.41	21.40	23.03	22.96	22.95	21.60	21.58	21.51
	64QAM	1	0	22.96	23.04	23.01	20.80	21.31	21.25	22.72	22.65	22.63	21.09	21.32	21.01
		1	1	23.40	22.91	22.63	21.43	21.04	20.93	22.25	22.79	22.85	21.39	21.31	21.08
		1	104	23.34	22.90	23.16	21.02	21.13	21.07	22.56	22.75	22.49	21.01	21.07	21.00
		1	105	23.16	23.09	22.34	21.42	20.96	21.12	22.78	23.07	22.46	20.93	21.09	20.88
		50	25	22.96	22.96	22.85	20.85	20.92	20.76	22.59	22.54	22.54	20.89	20.91	20.93
		100	0	23.01	22.92	22.80	20.91	20.87	20.75	22.55	22.52	22.56	21.13	21.08	20.89
	256QAM	1	0	21.29	20.96	21.10	18.89	18.94	18.80	20.46	20.72	20.91	18.89	19.12	18.64
		1	1	21.34	21.20	21.05	18.52	18.91	19.28	20.52	20.51	21.02	18.87	18.97	18.83
		1	104	21.15	21.18	20.72	19.09	18.85	19.05	20.56	20.54	20.85	18.84	18.91	19.23
		1	105	21.27	21.01	20.48	19.05	19.08	18.75	20.86	20.58	20.43	18.85	18.93	18.96
		50	25	20.97	20.96	20.84	18.93	19.00	18.93	20.58	20.53	20.40	19.08	19.02	19.04
		100	0	21.05	20.91	20.82	18.87	18.91	18.83	20.41	20.50	20.50	19.13	19.12	18.89

OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				372500	376500	380500	372500	376500	380500	372500	376500	380500	372500	376500	380500
25.0	BPSK	1	0	23.17	23.22	23.05	20.92	20.90	20.82	22.44	22.60	22.85	21.00	21.08	21.05
		1	1	23.44	23.58	23.31	21.31	21.41	21.46	23.04	23.12	23.20	21.46	21.54	21.46
		1	132	23.59	23.61	23.27	21.46	21.54	21.29	22.89	23.17	22.82	21.43	21.59	21.65
		1	131	23.27	23.17	22.91	20.73	21.00	21.09	22.38	22.62	22.67	21.02	21.17	21.16
		64	32	23.22	23.32	23.33	21.22	21.13	21.28	22.83	22.88	22.86	21.44	21.41	21.39
		128	0	22.92	22.88	22.78	20.76	20.79	20.81	22.30	22.45	22.43	20.88	20.94	20.92
	QPSK	1	0	22.58	22.70	22.21	20.59	20.48	20.48	22.04	22.26	22.10	20.38	20.54	20.61
		1	1	23.70	23.52	23.36	21.07	21.53	21.27	22.90	23.09	23.17	21.42	21.51	21.61
		1	132	23.25	23.34	23.41	21.60	21.51	21.70	23.12	22.80	22.81	21.51	21.70	21.58
		1	131	22.76	22.49	22.41	20.71	20.45	20.66	22.09	22.06	22.05	20.45	20.53	20.54
		64	32	23.27	23.36	23.34	21.25	21.23	21.22	22.87	22.87	22.84	21.42	21.43	21.46
		128	0	22.33	22.75	22.29	20.23	20.25	20.31	21.91	21.99	21.99	20.43	20.52	20.41
	16QAM	1	0	21.41	21.74	21.47	19.36	19.73	19.42	20.75	21.28	21.18	19.68	19.62	19.70
		1	1	22.77	22.87	22.50	20.41	20.27	19.87	22.03	22.55	22.26	20.28	20.52	20.62
		1	132	22.93	22.71	22.40	20.12	20.59	20.76	22.06	22.04	22.20	20.69	20.83	20.58
		1	131	21.52	21.18	21.53	19.80	19.52	19.71	21.12	21.39	21.44	19.46	19.86	19.64
		64	32	22.29	22.39	22.29	20.32	20.18	20.25	21.92	21.95	21.80	20.45	20.48	20.42
		128	0	21.29	21.34	21.31	19.31	19.29	19.34	20.84	20.92	20.91	19.46	19.50	19.44
	64QAM	1	0	21.11	21.39	21.20	18.76	19.35	19.29	20.55	20.36	20.45	19.29	19.20	19.23
		1	1	21.37	21.29	21.28	19.11	19.11	19.43	20.66	20.91	20.42	19.22	19.27	19.28
		1	132	21.08	21.39	21.51	18.82	19.33	18.86	20.41	20.66	20.48	19.46	19.47	19.25
		1	131	21.33	20.86	21.17	18.75	19.21	19.28	20.32	20.67	20.79	19.52	19.44	19.39
		64	32	20.75	20.77	20.75	18.79	18.69	18.75	20.32	20.44	20.38	18.88	18.90	18.90
		128	0	20.90	20.83	20.73	18.86	18.85	18.88	20.40	20.45	20.49	18.91	18.94	18.89
	256QAM	1	0	19.21	19.42	18.78	17.22	17.02	17.03	18.53	18.92	18.32	17.44	17.46	17.48
		1	1	19.43	19.10	19.69	17.11	16.93	16.73	18.64	18.66	18.55	17.22	17.58	17.10
		1	132	19.23	19.16	19.54	16.94	16.90	16.68	18.83	18.48	18.77	17.46	17.50	17.43
		1	131	19.47	18.90	19.03	17.41	17.45	17.06	18.67	18.64	18.61	17.41	17.69	17.69
		64	32	18.81	18.79	18.78	16.86	16.86	16.77	18.33	18.45	18.37	16.86	16.83	16.81
		128	0	18.87	18.77	18.77	16.82	16.78	16.83	18.32	18.40	18.48	16.85	16.90	16.88

OUTPUT POWER FOR 5G NR n25 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				373000	376500	380000	373000	376500	380000	373000	376500	380000	373000	376500	380000
30.0	BPSK	1	0	23.05	22.87	22.99	20.72	20.65	20.69	22.29	22.37	22.28	21.05	21.10	21.05
		1	1	23.70	23.64	23.64	21.14	21.21	21.35	22.50	23.13	23.16	21.57	21.68	21.44
		1	158	23.65	23.45	23.56	21.34	21.70	21.47	23.03	22.90	22.95	21.67	21.47	21.55
		1	159	23.14	23.08	23.07	20.93	21.04	20.61	22.44	22.49	22.40	21.19	21.19	21.13
		80	40	23.34	23.44	23.30	21.07	21.09	21.12	22.87	22.73	22.77	21.31	21.52	21.43
		160	0	22.93	22.91	22.85	20.72	20.62	20.73	22.22	22.32	22.32	20.98	20.98	20.99
	QPSK	1	0	22.78	22.57	22.46	20.44	19.74	20.30	21.89	21.85	21.98	20.43	20.47	20.64
		1	1	23.36	23.42	23.59	21.11	21.30	21.36	22.36	22.61	23.20	21.52	21.66	21.53
		1	158	23.51	23.52	23.54	21.13	21.33	21.25	22.77	23.04	23.04	21.43	21.70	21.53
		1	159	22.73	22.58	22.22	20.29	20.31	20.10	20.61	22.03	22.01	20.64	20.76	20.43
		80	40	23.39	23.40	23.31	21.14	21.12	21.19	22.81	22.79	22.81	21.48	21.50	21.46
		160	0	22.14	22.43	22.35	20.14	20.19	20.10	21.88	21.83	21.85	20.47	20.52	20.49
	16QAM	1	0	21.69	21.86	21.51	19.62	19.07	19.43	20.80	21.06	20.60	19.58	19.78	19.54
		1	1	22.51	22.92	22.30	19.91	20.38	20.34	21.90	21.84	21.53	20.53	20.56	20.97
		1	158	23.04	22.76	22.45	20.42	20.49	20.03	22.55	21.95	22.08	20.54	20.64	20.70
		1	159	21.81	21.45	21.48	19.27	19.22	19.23	19.53	20.96	20.99	19.75	19.82	19.70
		80	40	22.28	22.31	22.27	20.15	20.05	20.14	21.84	21.73	21.72	20.44	20.40	20.44
		160	0	21.48	21.46	21.41	19.19	19.16	19.18	20.83	20.95	20.92	19.47	19.52	19.43
	64QAM	1	0	21.40	21.37	21.09	19.19	18.84	18.89	20.34	20.46	20.54	19.04	19.24	19.32
		1	1	21.07	21.29	21.30	18.92	18.60	18.77	20.46	20.53	20.60	19.36	19.50	19.30
		1	158	21.35	21.21	21.10	18.64	18.18	18.71	20.34	20.72	20.49	19.36	19.20	19.41
		1	159	21.54	21.05	20.70	18.81	18.80	18.85	18.81	20.36	20.94	19.45	19.22	19.31
		80	40	20.83	20.89	20.80	18.53	18.62	18.61	20.29	20.33	20.37	18.89	18.90	18.89
		160	0	20.97	20.91	20.85	18.66	18.64	18.70	20.27	20.33	20.37	19.05	19.03	18.99
	256QAM	1	0	19.48	18.90	19.49	16.95	16.61	16.76	18.52	18.29	18.53	17.50	17.47	17.53
		1	1	19.13	19.68	19.45	16.79	16.05	16.59	18.43	18.35	18.62	17.33	17.82	17.45
		1	158	19.76	19.27	19.22	16.95	16.77	17.14	18.79	18.71	18.49	17.09	17.37	17.69
		1	159	19.89	19.19	19.42	16.58	16.67	16.85	17.15	18.51	18.68	17.48	17.44	17.72
		80	40	18.87	18.76	18.71	16.56	16.64	16.57	18.30	18.26	18.32	16.97	17.03	16.91
		160	0	18.94	18.94	18.85	16.67	16.69	16.70	18.35	18.31	18.36	17.01	17.06	17.03

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	23.59	23.41	23.61	21.20	21.12	21.20	23.16	22.48	22.58	21.60	21.60	21.56
		1	214	23.58	23.50	23.69	21.26	21.21	21.38	23.20	22.53	22.62	21.55	21.67	21.60
		1	215	23.01	23.21	22.94	20.92	20.92	20.69	22.93	22.45	22.55	21.20	21.23	20.97
		108	54	23.33	23.28	23.36	21.28	21.19	21.17	22.99	22.37	22.24	21.41	21.39	21.54
		216	0	22.99	22.96	22.83	20.75	20.61	20.74	22.64	22.35	22.37	20.96	20.98	20.94
	QPSK	1	0	23.63	22.64	22.87	20.18	20.34	20.46	22.19	22.26	22.10	20.54	20.48	20.44
		1	1	23.55	23.48	23.69	21.45	21.30	21.30	22.42	22.42	22.32	21.50	21.48	21.70
		1	214	23.68	23.45	23.57	21.70	21.47	21.59	22.58	22.51	22.56	21.64	21.51	21.66
		1	215	22.43	22.76	22.28	20.42	20.37	20.27	22.39	22.28	22.48	20.52	20.65	20.50
		108	54	23.46	23.43	23.33	21.19	21.15	21.24	22.36	22.32	22.34	21.48	21.42	21.44
		216	0	22.49	22.38	22.49	20.29	20.27	20.24	22.18	22.19	22.17	20.48	20.52	20.46
	16QAM	1	0	21.65	21.82	21.80	19.31	19.45	18.92	21.32	21.22	21.03	19.64	19.75	19.45
		1	1	22.39	22.71	22.64	20.42	20.20	20.26	22.19	22.04	22.21	20.41	20.70	20.57
		1	214	22.74	22.61	22.38	21.14	20.17	20.31	22.21	22.01	22.06	20.97	20.78	20.27
		1	215	21.68	22.07	21.72	19.37	19.17	19.59	21.70	21.42	21.28	19.82	19.47	19.83
		108	54	22.44	22.43	22.33	20.29	20.21	20.15	22.18	22.20	22.14	20.51	20.47	20.47
		216	0	21.44	21.37	21.44	19.26	19.25	19.32	21.18	21.19	21.16	19.43	19.48	19.41
	64QAM	1	0	21.71	21.18	21.06	18.60	19.37	19.45	20.19	20.32	20.67	19.37	19.31	19.11
		1	1	21.38	21.23	21.47	18.61	18.97	19.05	20.74	20.85	20.73	19.40	19.34	19.19
		1	214	21.09	21.60	20.91	18.45	19.37	18.73	20.81	20.95	20.87	19.48	19.28	19.45
		1	215	21.19	21.62	21.26	19.14	19.09	19.07	20.35	20.84	20.76	19.31	19.13	19.29
		108	54	20.90	20.86	20.81	18.79	18.66	18.68	20.46	20.65	20.71	18.95	18.99	18.93
		216	0	20.96	20.93	20.94	18.70	18.67	18.77	20.74	20.72	20.68	18.99	18.98	18.89
	256QAM	1	0	19.89	19.46	19.26	17.01	17.31	16.98	18.91	19.06	19.10	16.98	17.35	17.36
		1	1	19.30	19.47	19.44	16.84	16.87	16.61	18.91	19.28	19.22	16.91	17.31	17.17
		1	214	19.24	19.29	18.97	17.19	17.22	16.82	19.24	19.08	19.25	17.30	17.24	17.35
		1	215	19.55	19.03	19.36	17.11	17.05	17.31	19.04	19.28	19.30	17.25	17.59	17.35
		108	54	18.92	18.78	18.87	16.92	16.70	16.70	18.65	18.75	18.56	16.98	16.95	16.92
		216	0	18.95	18.90	18.92	16.77	16.72	16.76	18.63	18.76	18.67	16.94	16.98	16.93

8.8. LTE BAND 26 (FCC Part 90S)

Test Engineer ID:	10646	Test Date:	3/3/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26697 814.7 MHz	26740 819.0 MHz	26783 823.3 MHz	26697 814.7 MHz	26740 819.0 MHz	26783 823.3 MHz
1.4	QPSK	1	0	25.43	25.54	25.51	24.55	24.56	24.52
		1	2	25.70	25.64	25.60	24.61	24.70	24.65
		1	5	25.55	25.52	25.55	24.53	24.63	24.55
		3	0	25.54	25.53	25.55	24.58	24.59	24.63
		3	1	25.58	25.56	25.57	24.62	24.59	24.64
		3	2	25.55	25.51	25.58	24.62	24.60	24.62
	16QAM	6	0	24.64	24.63	24.60	23.67	23.70	23.66
		1	0	25.02	24.67	24.64	23.66	23.75	23.98
		1	2	25.13	24.71	24.67	23.78	23.84	24.17
		1	5	25.01	24.67	24.64	23.71	23.79	24.06
		3	0	24.84	24.80	24.69	23.86	23.75	23.84
		3	1	24.88	24.87	24.75	23.93	23.79	23.85
	64QAM	3	2	24.85	24.87	24.72	23.93	23.78	23.86
		6	0	23.55	23.83	23.78	22.85	22.81	22.57
		1	0	23.74	23.83	24.17	22.85	23.04	22.77
		1	2	23.91	23.93	24.38	22.99	23.19	22.89
		1	5	23.72	23.84	24.19	22.91	23.10	22.77
		3	0	23.77	23.58	23.94	22.66	23.02	22.81
	256QAM	3	1	23.83	23.60	23.96	22.70	23.05	22.85
		3	2	23.83	23.62	23.94	22.70	23.05	22.88
		6	0	22.96	22.75	22.66	21.84	21.70	21.98
		1	0	20.43	20.53	20.80	19.58	19.75	19.45
		1	2	20.49	20.63	21.01	19.72	19.90	19.58
		1	5	20.45	20.52	20.80	19.79	19.75	19.52
	256QAM	3	0	20.73	20.73	20.73	19.81	19.81	19.79
		3	1	20.77	20.76	20.78	19.84	19.85	19.81
		3	2	20.78	20.75	20.74	19.84	19.81	19.78
		6	0	20.70	20.72	20.66	19.80	19.71	19.72

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26705 815.5 MHz	26740 819.0 MHz	26775 822.5 MHz	26705 815.5 MHz	26740 819.0 MHz	26775 822.5 MHz
3.0	QPSK	1	0	25.59	25.53	25.62	24.70	24.65	24.60
		1	7	25.67	25.57	25.58	24.65	24.56	24.59
		1	14	25.57	25.58	25.70	24.61	24.61	24.66
		8	0	24.69	24.67	24.62	23.75	23.69	23.66
		8	4	24.75	24.72	24.67	23.79	23.79	23.71
		8	7	24.68	24.63	24.66	23.71	23.68	23.65
	16QAM	15	0	24.71	24.68	24.68	23.76	23.75	23.76
		1	0	24.75	24.54	25.12	24.10	23.80	23.57
		1	7	24.65	24.54	25.18	24.12	23.69	23.61
		1	14	24.65	24.55	25.19	24.06	23.70	23.62
		8	0	23.74	23.78	23.75	22.84	22.80	22.76
		8	4	23.78	23.78	23.77	22.85	22.80	22.86
	64QAM	8	7	23.69	23.75	23.69	22.79	22.75	22.81
		15	0	23.67	23.71	23.67	22.80	22.68	22.76
		1	0	23.91	23.91	23.77	22.83	22.92	22.95
		1	7	23.87	23.94	23.95	22.88	22.88	22.96
		1	14	23.84	23.96	23.91	22.86	22.94	23.00
		8	0	22.68	22.79	22.69	21.85	21.69	21.80
	256QAM	8	4	22.70	22.81	22.80	21.87	21.73	21.83
		8	7	22.66	22.73	22.72	21.80	21.66	21.80
		15	0	22.74	22.69	22.75	21.86	21.81	21.77
		1	0	20.65	21.23	20.54	19.69	19.65	20.28
		1	7	20.59	21.20	20.62	19.63	19.60	20.28
		1	14	20.57	21.15	20.50	19.54	19.63	20.26
	256QAM	8	0	20.75	20.76	20.58	19.77	19.74	19.76
		8	4	20.78	20.79	20.63	19.77	19.82	19.83
		8	7	20.75	20.68	20.60	19.68	19.79	19.80
	15	0	20.74	20.69	20.72	19.88	19.76	19.74	

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26715	26740	26765	26715	26740	26765
5.0	QPSK	1	0	25.67	25.59	25.67	24.56	24.64	24.69
		1	12	25.62	25.59	25.62	24.60	24.60	24.67
		1	24	25.55	25.66	25.70	24.55	24.63	24.70
		12	0	24.75	24.77	24.76	23.67	23.67	23.67
		12	6	24.80	24.83	24.81	23.73	23.74	23.69
		12	11	24.78	24.75	24.78	23.65	23.66	23.62
		25	0	24.78	24.79	24.81	23.72	23.70	23.71
	16QAM	1	0	25.24	24.84	24.87	24.22	23.74	23.80
		1	12	25.26	24.87	24.86	24.14	23.75	23.74
		1	24	25.24	24.89	24.86	24.12	23.77	23.83
		12	0	23.95	23.83	23.87	22.80	22.75	22.76
		12	6	23.94	23.89	23.90	22.85	22.79	22.79
		12	11	23.88	23.83	23.87	22.80	22.73	22.74
		25	0	23.87	23.77	23.84	22.76	22.65	22.70
	64QAM	1	0	24.17	24.02	23.71	23.13	22.95	22.65
		1	12	24.22	24.06	23.73	23.07	22.92	22.69
		1	24	24.09	24.06	23.67	23.03	22.97	22.66
		12	0	22.78	22.88	22.83	21.63	21.78	21.72
		12	6	22.78	22.90	22.83	21.66	21.78	21.76
		12	11	22.70	22.86	22.81	21.68	21.78	21.70
		25	0	22.80	22.83	22.80	21.70	21.71	21.70
	256QAM	1	0	21.10	20.66	20.38	19.89	19.57	19.32
		1	12	20.96	20.65	20.43	19.87	19.51	19.30
		1	24	20.91	20.74	20.31	19.86	19.54	19.23
		12	0	20.83	20.86	20.76	19.78	19.80	19.69
12		6	20.87	20.93	20.78	19.80	19.84	19.70	
12		11	20.85	20.86	20.77	19.80	19.80	19.68	
25		0	20.86	20.86	20.79	19.75	19.77	19.71	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				N/A	26740	N/A	N/A	26740	N/A
10.0	QPSK	1	0		25.70			24.70	
		1	24		25.68			24.61	
		1	49		25.66			24.63	
		25	0		24.74			23.67	
		25	12		24.78			23.71	
		25	24		24.71			23.63	
		50	0		24.79			23.69	
	16QAM	1	0		25.17			24.10	
		1	24		25.13			24.04	
		1	49		25.18			24.01	
		25	0		23.76			22.66	
		25	12		23.81			22.74	
		25	24		23.77			22.71	
		50	0		23.82			22.71	
	64QAM	1	0		23.89			22.83	
		1	24		23.97			22.81	
		1	49		24.00			22.78	
		25	0		22.85			21.77	
		25	12		22.91			21.83	
		25	24		22.84			21.74	
		50	0		22.82			21.76	
	256QAM	1	0		20.49			19.42	
		1	24		20.55			19.48	
		1	49		20.55			19.42	
		25	0		20.76			19.68	
25		12		20.83			19.75		
25		24		20.76			19.67		
50		0		20.80			19.68		

8.9. LTE BAND 26 (FCC Part 22)

Test Engineer ID:	10646	Test Date:	3/3/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26797 824.7 MHz	26915 836.5 MHz	27033 848.3 MHz	26797 824.7 MHz	26915 836.5 MHz	27033 848.3 MHz
1.4	QPSK	1	0	25.58	25.54	25.57	24.64	24.55	24.49
		1	2	25.70	25.65	25.61	24.70	24.67	24.51
		1	5	25.61	25.57	25.46	24.63	24.59	24.46
		3	0	25.59	25.47	25.52	24.60	24.59	24.47
		3	1	25.64	25.52	25.51	24.63	24.62	24.54
		3	2	25.62	25.56	25.51	24.61	24.64	24.57
	16QAM	6	0	24.71	24.61	24.60	23.66	23.66	23.57
		1	0	24.69	24.72	25.00	23.75	24.04	23.63
		1	2	24.79	24.77	25.08	23.86	24.17	23.70
		1	5	24.74	24.72	24.97	23.76	24.07	23.57
		3	0	24.89	24.67	24.75	23.75	23.77	23.77
		3	1	24.92	24.72	24.79	23.80	23.93	23.82
	64QAM	3	2	24.93	24.76	24.79	23.78	23.88	23.85
		6	0	23.88	23.73	23.51	22.88	22.61	22.72
		1	0	23.80	24.04	23.74	23.03	22.77	22.75
		1	2	24.09	24.17	23.80	23.22	22.91	22.81
		1	5	24.01	24.06	23.66	23.04	22.78	22.76
		3	0	23.67	23.88	23.74	23.00	22.74	22.53
	256QAM	3	1	23.70	23.97	23.77	23.05	22.86	22.58
		3	2	23.70	24.01	23.79	23.08	22.87	22.57
		6	0	22.83	22.58	22.97	21.73	22.01	21.70
		1	0	20.56	20.67	20.44	19.77	19.51	19.60
		1	2	20.68	20.86	20.44	19.90	19.60	19.66
		1	5	20.61	20.71	20.41	19.74	19.56	19.51
3.0	QPSK	3	0	20.77	20.67	20.64	19.81	19.73	19.74
		3	1	20.80	20.72	20.71	19.83	19.82	19.77
		3	2	20.77	20.74	20.68	19.86	19.81	19.75
		6	0	20.78	20.63	20.64	19.75	19.77	19.72
		1	0	25.65	25.57	25.60	24.69	24.65	24.70
		1	7	25.63	25.66	25.59	24.64	24.64	24.64
	16QAM	1	14	25.70	25.59	25.54	24.65	24.69	24.65
		8	0	24.76	24.65	24.66	23.82	23.69	23.73
		8	4	24.72	24.68	24.66	23.83	23.75	23.73
		8	7	24.69	24.62	24.59	23.77	23.73	23.66
		15	0	24.75	24.60	24.62	23.80	23.74	23.68
		1	0	25.07	24.64	24.58	23.83	23.66	24.10
64QAM	1	7	25.12	24.61	24.52	23.77	23.68	24.02	
	1	14	25.11	24.66	24.45	23.79	23.62	24.04	
	8	0	23.82	23.68	23.73	22.83	22.82	22.76	
	8	4	23.81	23.74	23.74	22.89	22.90	22.79	
	8	7	23.77	23.67	23.70	22.79	22.83	22.70	
	15	0	23.73	23.55	23.69	22.72	22.81	22.75	
256QAM	1	0	23.82	23.85	23.99	23.02	23.01	22.85	
	1	7	23.89	23.84	23.89	22.96	23.00	22.79	
	1	14	23.85	23.87	23.86	23.00	23.04	22.85	
	8	0	22.83	22.62	22.75	21.77	21.84	21.77	
	8	4	22.81	22.67	22.75	21.80	21.87	21.78	
	8	7	22.77	22.58	22.69	21.77	21.84	21.74	
256QAM	15	0	22.81	22.65	22.61	21.86	21.77	21.77	
	1	0	20.53	20.58	21.23	19.72	20.37	19.65	
	1	7	20.78	20.52	21.16	19.69	20.36	19.48	
	1	14	20.49	20.54	21.10	19.65	20.30	19.51	
	8	0	20.73	20.66	20.70	19.88	19.83	19.72	
	8	4	20.73	20.75	20.75	19.86	19.93	19.74	
256QAM	8	7	20.64	20.70	20.62	19.84	19.88	19.69	
	15	0	20.81	20.67	20.65	19.85	19.87	19.86	

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26805 825.5 MHz	26915 836.5 MHz	27025 847.5 MHz	26805 825.5 MHz	26915 836.5 MHz	27025 847.5 MHz
3.0	QPSK	1	0	25.65	25.57	25.60	24.69	24.65	24.70
		1	7	25.63	25.66	25.59	24.64	24.64	24.64
		1	14	25.70	25.59	25.54	24.65	24.69	24.65
		8	0	24.76	24.65	24.66	23.82	23.69	23.73
		8	4	24.72	24.68	24.66	23.83	23.75	23.73
		8	7	24.69	24.62	24.59	23.77	23.73	23.66
	16QAM	15	0	24.75	24.60	24.62	23.80	23.74	23.68
		1	0	25.07	24.64	24.58	23.83	23.66	24.10
		1	7	25.12	24.61	24.52	23.77	23.68	24.02
		1	14	25.11	24.66	24.45	23.79	23.62	24.04
		8	0	23.82	23.68	23.73	22.83	22.82	22.76
		8	4	23.81	23.74	23.74	22.89	22.90	22.79
	64QAM	8	7	23.77	23.67	23.70	22.79	22.83	22.70
		15	0	23.73	23.55	23.69	22.72	22.81	22.75
		1	0	23.82	23.85	23.99	23.02	23.01	22.85
		1	7	23.89	23.84	23.89	22.96	23.00	22.79
		1	14	23.85	23.87	23.86	23.00	23.04	22.85
		8	0	22.83	22.62	22.75	21.77	21.84	21.77
	256QAM	8	4	22.81	22.67	22.75	21.80	21.87	21.78
		8	7	22.77	22.58	22.69	21.77	21.84	21.74
		15	0	22.81	22.65	22.61	21.86	21.77	21.77
		1	0	20.53	20.58	21.23	19.72	20.37	19.65
		1	7	20.78	20.52	21.16	19.69	20.36	19.48
		1	14	20.49	20.54	21.10	19.65	20.30	19.51
256QAM	8	0	20.73	20.66	20.70	19.88	19.83	19.72	
	8	4	20.73	20.75	20.75	19.86	19.93	19.74	
	8	7	20.64	20.70	20.62	19.84	19.88	19.69	
	15	0	20.81	20.67	20.65	19.85	19.87	19.86	

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26815	26915	27015	26815	26915	27015
5.0	QPSK	1	0	25.62	25.64	25.63	24.68	24.70	24.52
		1	12	25.65	25.61	25.65	24.66	24.66	24.56
		1	24	25.70	25.65	25.54	24.66	24.69	24.49
		12	0	24.79	24.73	24.76	23.70	23.65	23.57
		12	6	24.85	24.71	24.75	23.76	23.66	23.64
		12	11	24.79	24.72	24.70	23.71	23.61	23.56
		25	0	24.81	24.72	24.70	23.73	23.66	23.56
	16QAM	1	0	24.96	24.87	25.19	23.82	23.78	24.09
		1	12	24.97	24.82	25.23	23.82	23.78	24.09
		1	24	24.96	24.86	25.16	23.81	23.75	24.06
		12	0	23.89	23.82	23.89	22.75	22.75	22.74
		12	6	23.93	23.83	23.95	22.79	22.76	22.78
		12	11	23.87	23.82	23.85	22.75	22.73	22.73
		25	0	23.78	23.76	23.76	22.69	22.72	22.62
	64QAM	1	0	24.06	23.75	24.21	22.96	22.62	22.96
		1	12	24.17	23.73	24.21	22.93	22.65	23.00
		1	24	24.13	23.71	24.07	22.96	22.64	22.96
		12	0	22.95	22.83	22.74	21.81	21.71	21.54
		12	6	23.01	22.77	22.74	21.86	21.76	21.64
		12	11	22.96	22.79	22.68	21.82	21.73	21.51
		25	0	22.87	22.70	22.62	21.76	21.66	21.54
	256QAM	1	0	20.68	20.36	21.19	19.58	19.34	19.85
		1	12	20.82	20.40	21.01	19.56	19.35	19.76
		1	24	20.70	20.34	20.88	19.55	19.26	19.69
		12	0	20.93	20.74	20.82	19.78	19.66	19.72
12		6	20.98	20.73	20.85	19.87	19.76	19.78	
12		11	20.93	20.73	20.81	19.80	19.66	19.72	
25		0	20.86	20.71	20.66	19.76	19.71	19.65	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				26840	26915	26990	26840	26915	26990
10.0	QPSK	1	0	25.68	25.60	25.70	24.66	24.66	24.70
		1	24	25.68	25.53	25.66	24.59	24.54	24.55
		1	49	25.66	25.62	25.59	24.53	24.56	24.63
		25	0	24.68	24.68	24.64	23.70	23.66	23.65
		25	12	24.79	24.66	24.68	23.76	23.74	23.61
		25	24	24.69	24.64	24.66	23.69	23.66	23.62
		50	0	24.76	24.61	24.63	23.76	23.71	23.59
	16QAM	1	0	25.14	24.79	24.69	23.81	23.71	24.14
		1	24	25.13	24.66	24.63	23.68	23.62	23.98
		1	49	25.12	24.63	24.56	23.68	23.57	24.03
		25	0	23.74	23.74	23.69	22.80	22.74	22.70
		25	12	23.78	23.74	23.69	22.88	22.77	22.67
		25	24	23.72	23.74	23.64	22.79	22.71	22.64
		50	0	23.77	23.63	23.61	22.79	22.67	22.62
	64QAM	1	0	23.76	23.86	23.92	22.91	22.99	22.80
		1	24	23.86	23.83	23.96	22.98	22.96	22.73
		1	49	23.89	23.82	23.94	22.86	22.97	22.81
		25	0	22.82	22.78	22.72	21.80	21.76	21.76
		25	12	22.90	22.75	22.69	21.87	21.80	21.73
		25	24	22.82	22.72	22.73	21.83	21.70	21.79
		50	0	22.81	22.64	22.62	21.77	21.75	21.67
	256QAM	1	0	20.41	20.61	21.18	19.66	20.30	19.49
		1	24	20.50	20.60	21.26	19.68	20.31	19.41
		1	49	20.51	20.53	21.19	19.67	20.29	19.50
		25	0	20.74	20.77	20.69	19.87	19.79	19.75
25		12	20.81	20.76	20.72	19.95	19.85	19.72	
25		24	20.72	20.73	20.69	19.81	19.78	19.72	
50		0	20.76	20.67	20.66	19.81	19.82	19.67	

8.10. LTE BAND 30 AND 5G NR n30

LTE BAND 30

Test Engineer ID:	10646	Test Date:	3/16/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				27685	27710	27735	27685	27710	27735	27685	27710	27735	27685	27710	27735
5.0	QPSK	1	0	24.44	24.59	24.50	22.75	22.86	22.97	21.54	21.56	21.42	23.09	23.06	23.10
		1	12	24.46	24.42	24.55	22.92	23.06	23.06	21.60	21.43	21.58	23.15	23.11	23.11
		1	24	24.48	24.58	24.43	23.06	23.20	23.17	21.50	21.42	21.43	23.20	23.11	23.17
		12	0	24.54	24.50	24.43	21.98	22.01	22.09	21.53	21.50	21.44	22.24	22.17	22.21
		12	6	24.59	24.41	24.55	22.06	22.13	22.16	21.42	21.58	21.60	22.25	22.23	22.29
	16QAM	12	11	24.45	24.47	24.56	22.06	22.11	22.20	21.46	21.56	21.56	22.24	22.27	22.24
		25	0	24.56	24.48	24.58	22.05	22.11	22.16	21.41	21.59	21.43	22.20	22.22	22.23
		1	0	24.41	24.57	24.51	22.06	22.14	22.54	21.41	21.51	21.45	22.29	22.60	22.33
		1	12	24.43	24.43	24.51	22.12	22.19	22.59	21.50	21.42	21.48	22.37	22.72	22.37
		1	24	24.41	24.52	24.55	22.25	22.33	22.67	21.50	21.57	21.50	22.48	22.70	22.38
	64QAM	12	0	23.81	23.89	23.68	21.06	21.12	21.28	21.59	21.45	21.46	21.33	21.37	21.29
		12	6	23.86	23.92	23.71	21.15	21.18	21.38	21.48	21.43	21.50	21.38	21.42	21.39
		12	11	23.87	23.86	23.77	21.18	21.27	21.33	21.54	21.58	21.53	21.37	21.44	21.34
		25	0	23.82	23.72	23.61	21.01	21.12	21.23	21.50	21.45	21.41	21.25	21.32	21.24
		1	0	23.64	24.01	23.87	21.18	20.90	21.43	21.58	21.40	21.56	21.05	21.43	21.46
	256QAM	1	12	23.74	24.05	23.90	21.34	21.02	21.52	21.47	21.40	21.47	21.11	21.63	21.52
		1	24	23.73	24.02	23.95	21.40	21.15	21.53	21.45	21.47	21.58	21.23	21.65	21.56
		12	0	22.82	22.63	22.71	20.12	20.09	20.12	21.46	21.25	21.41	20.18	20.14	20.35
		12	6	22.85	22.67	22.72	20.21	20.17	20.15	21.42	21.24	21.42	20.25	20.26	20.40
		12	11	22.80	22.69	22.77	20.21	20.17	20.17	21.50	21.24	21.59	20.33	20.25	20.40

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		24.55			23.07			21.51			23.14	
		1	24		24.53			23.08			21.58			23.20	
		1	49		24.57			23.20			21.55			23.20	
		25	0		24.59			22.12			21.48			22.17	
		25	12		24.44			22.28			21.58			22.22	
	16QAM	25	24		24.48			22.31			21.47			22.22	
		50	0		24.47			22.26			21.53			22.16	
		1	0		24.45			22.49			21.52			22.19	
		1	24		24.55			22.52			21.42			22.11	
		1	49		24.44			22.68			21.42			22.15	
	64QAM	25	0		23.76			21.17			21.49			21.26	
		25	12		23.74			21.29			21.42			21.27	
		25	24		23.75			21.30			21.58			21.24	
		50	0		23.67			21.29			21.44			21.14	
		1	0		24.00			21.13			21.57			21.25	
	256QAM	1	24		23.94			21.31			21.44			21.40	
		1	49		23.96			21.42			21.52			21.47	
		25	0		22.78			20.18			21.17			19.92	
		25	12		22.75			20.36			21.25			20.23	
		25	24		22.71			20.41			21.51			20.27	

5G NR n30

Test Engineer ID:	10646	Test Date:	3/8/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR 5G NR n30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)												
				ANT 1			ANT 2			ANT 3			ANT 4			
				501200	518600	536000	501200	518600	536000	501200	518600	536000	501200	518600	536000	
5.0	BPSK	1	0	21.13	20.99	20.95	18.57	18.55	18.40	20.32	20.32	20.56	18.23	18.25	18.15	
		1	1	24.52	24.48	24.54	23.01	22.98	23.09	21.41	21.52	21.55	22.96	22.60	22.68	
		1	23	24.51	24.41	24.54	23.09	23.05	22.99	21.56	21.48	21.45	22.69	22.72	22.81	
		1	24	21.07	20.97	20.98	18.32	18.68	18.51	20.60	20.41	20.42	18.47	18.37	17.88	
		12	6	24.50	24.56	24.41	23.13	23.11	22.96	21.57	21.60	21.43	22.83	22.79	22.69	
	QPSK	25	0	24.56	24.55	24.43	22.42	22.49	22.45	21.48	21.53	21.58	22.27	23.07	22.37	
		1	0	21.04	20.98	21.06	18.39	18.44	18.49	20.18	20.20	20.44	18.06	18.27	17.98	
		1	1	24.54	24.58	24.42	23.01	22.87	23.04	21.47	21.45	21.53	22.25	22.28	22.66	
		1	23	24.48	24.46	24.60	23.17	23.20	22.83	21.58	21.56	21.49	22.79	22.56	23.20	
		1	24	21.09	21.01	20.92	18.59	18.55	18.74	20.50	20.78	20.68	18.04	18.21	18.42	
	16QAM	12	6	24.54	24.56	24.58	23.08	23.00	23.02	21.43	21.50	21.54	22.78	22.88	22.88	
		25	0	24.41	24.34	24.45	22.04	22.08	22.00	21.50	21.47	21.51	21.62	23.02	21.92	
		1	0	20.89	20.84	20.91	18.83	18.46	18.80	20.32	19.92	20.54	18.00	18.16	18.31	
		1	1	24.47	24.48	24.41	22.12	22.13	22.19	21.47	21.59	21.51	21.35	21.96	22.05	
		1	23	24.43	24.51	24.47	22.27	22.37	21.99	21.41	21.45	21.52	22.04	21.72	22.14	
	64QAM	1	24	21.09	20.93	20.93	18.82	18.76	18.67	20.33	20.39	20.27	19.04	18.45	18.43	
		12	6	24.40	24.42	24.52	22.07	22.06	22.02	21.46	21.56	21.60	21.77	22.01	21.65	
		25	0	23.68	23.58	23.59	20.97	21.00	20.94	21.47	21.47	21.57	20.76	21.85	20.99	
		1	0	21.11	21.20	21.16	18.42	18.49	18.57	20.13	20.34	20.73	18.03	18.63	18.50	
		1	1	23.20	23.25	23.10	20.48	20.54	20.40	21.47	21.55	21.59	20.19	19.73	20.76	
	256QAM	1	23	23.27	23.34	23.28	20.67	20.50	20.70	21.58	21.52	21.45	20.34	20.30	20.67	
		1	24	21.28	21.21	21.24	18.54	18.66	18.39	20.39	20.64	20.50	18.71	18.44	18.70	
		12	6	23.13	23.00	22.98	20.47	20.45	20.35	21.54	21.41	21.58	20.36	20.53	20.35	
		25	0	23.19	23.07	23.11	20.50	20.48	20.44	21.50	21.43	21.40	20.29	19.91	20.35	
		1	0	20.65	20.91	20.82	18.61	18.87	18.55	20.36	20.26	20.72	18.79	18.27	18.39	
	5.0	256QAM	1	1	20.75	20.88	20.67	18.70	18.80	18.57	20.26	20.64	20.76	18.31	18.07	18.56
			1	23	20.81	21.00	20.71	18.50	18.90	18.69	20.98	20.88	20.94	18.33	18.40	18.70
			1	24	20.85	20.88	20.85	18.72	18.86	18.57	20.74	20.83	20.88	18.46	18.54	18.29
			12	6	21.23	21.26	21.05	18.55	18.58	18.50	20.46	20.47	20.62	18.32	18.43	18.37
			25	0	21.10	21.04	21.02	18.35	18.48	18.37	20.44	20.40	20.56	18.21	17.99	18.42

OUTPUT POWER FOR 5G NR n30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	518600	N/A	N/A	518600	N/A	N/A	518600	N/A	N/A	518600	N/A
10.0	BPSK	1	0		21.08			18.41			20.54			18.63	
		1	1		24.44			22.83			21.46			22.89	
		1	50		24.50			23.20			21.53			23.20	
		1	51		20.88			18.23			20.51			18.43	
		25	12		24.43			22.90			21.49			22.93	
	QPSK	50	0		21.03			18.36			20.42			18.23	
		1	0		21.01			18.55			20.39			18.26	
		1	1		24.43			22.91			21.59			22.89	
		1	50		24.47			22.81			21.56			23.03	
		1	51		21.04			18.46			20.54			18.94	
	16QAM	25	12		24.58			22.97			21.51			22.95	
		50	0		21.04			18.43			20.33			18.25	
		1	0		20.99			18.57			20.31			18.47	
		1	1		24.42			22.28			21.58			22.06	
		1	50		24.40			22.26			21.41			22.03	
	64QAM	1	51		20.91			18.52			20.37			18.74	
		25	12		24.41			21.85			21.57			22.00	
		50	0		21.18			18.42			20.40			18.36	
		1	0		21.14			18.44			20.63			18.63	
		1	1		23.11			20.41			21.55			20.56	
	256QAM	1	50		23.24			20.65			21.45			21.01	
		1	51		21.13			18.28			20.78			18.65	
		25	12		23.07			20.47			21.52			20.46	
		50	0		21.04			18.32			20.45			18.30	
		1	0		20.78			18.84			20.59			18.30	
	5.0	256QAM	1	1		20.78			18.83			20.50			18.69
			1	50		21.05			18.73			20.94			18.53
			1	51		20.66			18.78			20.86			18.39
			25	12		21.03			18.32			20.49			18.42
			50	0		21.12			18.40			20.54			18.31

8.11. LTE BAND 41 AND 5G NR n41

LTE BAND 41

Test Engineer ID:	10646	Test Date:	5/23/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
5.0	QPSK	1	0	24.67	27.50	27.20	21.83	24.97	24.99	23.42	26.50	26.39	21.17	24.99	24.88
		1	12	27.46	27.39	27.03	24.69	24.98	24.95	25.94	26.40	26.44	24.00	25.00	24.86
		1	24	27.47	27.37	27.11	24.76	25.00	24.94	26.28	26.44	26.37	24.35	24.97	24.93
		12	0	23.70	26.48	26.21	20.96	23.98	24.06	22.52	25.53	25.50	20.16	24.04	24.07
		12	6	23.68	26.53	26.23	20.97	24.03	24.03	22.64	25.58	25.48	20.27	24.06	24.09
		12	11	26.70	26.52	26.21	23.94	23.98	24.07	25.35	25.56	25.51	23.25	24.08	24.13
		25	0	23.63	26.44	26.20	20.91	24.00	24.02	22.45	25.54	25.43	20.21	23.97	24.03
	16QAM	1	0	23.59	26.47	26.23	20.81	23.97	24.13	22.32	25.49	25.49	20.09	24.06	23.88
		1	12	26.55	26.50	26.26	23.71	24.00	24.14	24.83	25.55	25.57	23.02	24.09	23.95
		1	24	26.46	26.54	26.32	23.81	24.02	24.17	25.18	25.58	25.56	23.47	24.13	23.97
		12	0	22.81	25.54	25.31	20.00	23.02	23.09	21.61	24.55	24.58	19.23	23.12	23.08
		12	6	22.83	25.59	25.31	20.07	23.04	23.17	21.70	24.61	24.60	19.30	23.13	23.14
		12	11	25.79	25.52	25.25	22.97	23.02	23.13	24.41	24.52	24.57	22.21	23.07	23.12
		25	0	22.64	25.54	25.20	19.94	23.05	23.05	21.55	24.51	24.50	19.20	23.06	23.03
	64QAM	1	0	22.47	25.97	25.39	19.62	23.35	23.20	21.16	24.95	24.63	19.53	23.22	22.71
		1	12	25.39	25.98	25.18	21.93	23.50	23.16	22.62	25.10	24.64	21.34	23.20	22.75
		1	24	25.39	25.99	25.26	22.26	23.46	23.20	22.95	24.94	24.64	21.96	23.16	22.78
		12	0	21.81	24.63	24.18	19.00	22.16	21.94	20.57	23.69	23.46	18.27	22.05	22.06
		12	6	21.79	24.66	24.20	18.97	22.19	21.98	20.62	23.69	23.56	18.42	21.99	22.11
		12	11	24.80	24.66	24.15	21.33	22.12	22.06	22.45	23.69	23.52	20.28	22.05	22.19
		25	0	21.74	24.53	24.12	19.03	21.93	21.84	20.57	23.53	23.36	18.26	21.90	22.13
	256QAM	1	0	20.08	22.71	22.43	17.25	20.00	20.30	18.76	21.87	21.84	16.32	20.36	20.33
		1	12	22.98	22.71	22.41	20.15	20.19	20.27	21.95	21.75	21.78	19.49	20.33	20.29
		1	24	22.92	22.78	22.46	20.20	20.19	20.26	21.84	21.83	21.84	19.56	20.27	20.48
		12	0	19.76	22.49	22.18	17.01	19.99	20.08	18.52	21.55	21.50	16.15	20.06	20.08
		12	6	19.78	22.57	22.21	16.96	20.01	20.06	18.59	21.59	21.56	16.27	20.11	20.06
		12	11	22.80	22.53	22.22	19.88	20.03	20.07	21.61	21.51	21.52	19.24	20.05	20.12
		25	0	19.72	22.52	22.25	16.96	20.01	20.12	18.50	21.61	21.52	16.14	20.11	20.01

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	22.52	27.26	26.82	19.95	24.87	25.00	21.17	26.13	26.03	18.98	25.00	24.93
		1	24	27.49	27.29	26.91	24.88	24.92	25.00	26.04	26.06	26.04	24.29	24.89	24.97
		1	49	27.50	27.30	26.89	24.92	24.91	24.95	26.50	26.05	26.06	24.44	24.89	24.96
		25	0	23.59	26.37	25.99	20.99	23.90	23.98	22.31	25.27	25.19	20.25	24.06	24.04
		25	12	26.59	26.37	26.02	23.96	24.02	24.01	25.25	25.23	25.21	23.45	24.06	24.08
		25	24	25.52	26.34	26.04	22.96	23.95	24.04	24.41	25.19	25.19	22.42	24.00	24.09
		50	0	23.54	26.35	26.03	20.97	24.01	23.94	22.42	25.22	25.18	20.28	23.98	24.07
	16QAM	1	0	21.49	26.37	25.86	19.11	23.89	23.94	20.22	25.11	25.03	17.95	24.18	23.89
		1	24	26.39	26.33	25.89	24.02	23.91	24.00	25.14	25.14	25.02	23.23	24.05	23.96
		1	49	26.39	26.43	25.83	24.07	23.87	24.02	25.61	25.15	25.00	23.40	24.07	24.00
		25	0	22.57	25.37	25.00	19.97	22.91	22.97	21.33	24.25	24.16	19.33	23.04	23.02
		25	12	25.57	25.40	25.02	22.96	23.00	22.98	24.34	24.22	24.18	22.34	23.04	23.13
		25	24	24.49	25.42	25.06	21.98	23.01	23.06	23.41	24.26	24.22	21.42	23.05	23.12
		50	0	22.54	25.38	24.99	19.98	22.99	23.03	21.43	24.23	24.20	19.32	23.06	23.11
	64QAM	1	0	20.70	25.39	24.49	18.09	22.51	23.22	19.23	23.84	24.30	17.24	23.16	22.51
		1	24	25.71	25.37	24.53	22.58	22.49	23.27	23.03	23.76	24.43	21.69	23.12	22.62
		1	49	25.63	25.38	24.48	22.90	22.55	23.25	23.77	23.68	24.32	22.23	23.10	22.63
		25	0	21.56	24.31	24.08	18.91	22.00	21.95	20.23	23.24	23.18	18.23	21.93	22.11
		25	12	24.55	24.33	24.07	21.38	22.06	21.97	22.24	23.33	23.22	20.50	21.99	22.18
		25	24	23.48	24.31	24.03	20.92	22.05	22.00	22.37	23.29	23.21	20.40	21.90	22.09
		50	0	21.58	24.34	23.95	18.93	22.01	21.84	20.39	23.21	23.17	18.37	21.97	22.03
	256QAM	1	0	17.14	22.54	21.95	15.14	19.96	19.55	16.38	21.36	20.86	13.61	20.33	20.03
		1	24	22.13	22.42	21.92	20.36	19.90	19.63	21.73	21.10	20.77	18.97	20.03	19.98
		1	49	22.20	22.39	21.83	20.27	19.96	19.67	21.90	21.10	20.93	19.11	20.06	19.98
		25	0	19.64	22.31	22.01	17.00	19.90	20.04	18.28	21.26	21.29	16.31	20.04	20.06
		25	12	22.64	22.39	22.10	20.04	20.09	20.09	21.44	21.30	21.27	19.50	20.09	20.13
		25	24	21.57	22.34	22.04	18.95	20.06	20.17	20.42	21.26	21.29	18.46	20.03	20.15
		50	0	19.57	22.32	22.05	17.03	20.09	20.04	18.44	21.27	21.18	16.34	20.05	20.14

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	22.52	27.39	26.98	19.83	24.86	24.86	21.03	26.20	26.11	18.98	24.95	24.89
		1	37	27.47	27.36	26.92	24.72	24.76	24.90	26.32	26.09	25.99	24.22	24.78	24.86
		1	74	27.50	27.45	27.12	24.81	24.90	25.00	26.50	26.17	26.14	24.40	24.81	25.00
		36	0	22.70	26.50	26.13	19.85	23.95	23.89	21.40	25.29	25.20	19.32	23.99	23.93
		36	16	26.60	26.47	26.12	23.91	23.98	23.88	25.54	25.29	25.20	23.38	23.99	23.90
		36	35	23.57	26.50	26.10	20.86	23.93	23.98	22.46	25.25	25.20	20.35	23.91	23.94
		75	0	22.58	26.48	26.10	19.87	23.94	23.94	21.45	25.28	25.17	19.25	23.94	23.97
		1	0	21.51	26.30	25.88	18.75	23.87	23.60	20.10	25.14	25.11	17.86	24.07	23.83
	16QAM	1	37	26.58	26.34	25.86	23.74	23.84	23.87	25.42	25.15	24.97	23.32	23.78	23.89
		1	74	26.67	26.28	25.99	23.76	23.83	23.73	25.58	25.18	25.11	23.38	23.84	23.92
		36	0	21.72	25.43	25.08	18.89	22.89	22.89	20.41	24.32	24.18	18.19	23.02	22.87
		36	16	25.63	25.46	25.11	22.89	22.96	22.91	24.53	24.29	24.19	22.37	22.98	22.87
		36	35	22.57	25.46	25.09	19.83	22.96	22.96	21.49	24.24	24.17	19.33	22.94	22.97
		75	0	21.64	25.44	25.13	18.95	22.93	22.97	20.48	24.27	24.23	18.33	22.93	22.96
		1	0	20.55	24.87	25.31	18.00	22.78	22.39	19.04	23.74	24.44	17.13	23.04	22.43
		1	37	25.46	24.90	25.26	22.95	22.75	22.48	23.29	23.67	24.39	22.03	22.78	22.49
	64QAM	1	74	25.51	24.92	25.33	22.98	22.85	22.57	24.28	23.74	24.50	22.17	22.82	22.45
		36	0	20.71	24.54	24.19	17.97	21.88	21.97	19.39	23.38	23.30	17.35	22.00	21.98
		36	16	24.57	24.49	24.20	21.69	21.96	21.97	22.75	23.34	23.30	20.86	21.96	21.99
		36	35	21.61	24.52	24.14	18.98	21.95	22.07	20.51	23.34	23.28	18.50	21.92	22.02
		75	0	20.61	24.44	24.18	17.95	22.00	21.91	19.50	23.28	23.23	17.37	21.98	21.99
		1	0	17.85	22.38	21.67	14.52	20.19	19.90	16.32	21.33	20.86	13.63	20.22	19.90
		1	37	22.77	22.20	21.62	19.45	20.18	19.95	21.61	21.16	20.76	18.93	19.98	19.82
		1	74	22.90	22.40	21.72	19.57	20.08	19.95	21.83	21.25	20.87	19.14	20.20	20.05
	256QAM	36	0	18.70	22.48	22.17	15.96	19.88	20.01	17.45	21.37	21.32	15.34	20.06	20.02
		36	16	22.59	22.48	22.14	19.92	19.98	19.93	21.50	21.33	21.30	19.41	19.98	19.99
		36	35	19.59	22.47	22.09	16.93	19.95	20.01	18.51	21.32	21.28	16.46	19.88	20.05
		75	0	18.63	22.45	22.11	15.85	19.98	20.01	17.57	21.31	21.27	15.26	20.00	20.10

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	22.51	27.28	27.06	19.84	24.89	24.86	21.03	26.15	26.16	18.85	25.00	24.71
		1	49	27.47	27.14	26.95	24.73	24.75	24.92	26.39	25.99	25.93	24.19	24.67	24.62
		1	99	27.50	27.29	26.98	24.78	24.80	25.00	26.50	26.02	26.08	24.27	24.66	24.65
		50	0	22.65	26.36	26.05	19.83	23.85	23.83	21.31	25.18	25.15	19.16	23.90	23.76
		50	24	26.56	26.40	26.04	23.94	23.94	23.95	25.44	25.18	25.09	23.24	23.87	23.75
		50	49	23.53	26.41	26.00	20.87	23.91	23.98	22.43	25.11	25.07	20.30	23.76	23.81
		100	0	22.58	26.38	26.07	19.93	23.95	23.95	21.44	25.16	25.13	19.24	23.83	23.74
		1	0	21.63	26.37	25.90	18.93	24.01	23.87	20.08	25.21	24.97	17.70	24.13	23.90
	16QAM	1	49	26.59	26.34	25.76	23.87	23.88	23.69	25.53	25.07	24.87	23.26	23.80	23.81
		1	99	26.67	26.44	25.87	23.92	23.93	24.05	25.62	25.15	24.92	23.22	23.89	23.90
		50	0	21.69	25.36	25.08	18.90	22.88	22.86	20.38	24.20	24.13	18.20	22.94	22.75
		50	24	25.58	25.41	25.05	22.95	22.91	22.95	24.55	24.19	24.09	22.30	22.86	22.74
		50	49	22.58	25.39	24.98	19.94	22.87	22.91	21.49	24.11	24.12	19.31	22.79	22.81
		100	0	21.55	25.42	25.05	18.95	22.91	22.95	20.40	24.10	24.10	18.23	22.87	22.74
		1	0	20.56	25.75	25.10	17.75	23.31	22.82	19.11	24.59	24.05	16.74	23.01	22.89
		1	49	25.52	25.72	24.88	22.78	23.23	22.75	23.74	24.50	23.97	21.76	22.76	23.11
	64QAM	1	99	25.58	25.73	24.99	22.47	23.28	22.95	24.50	24.55	24.08	21.47	22.81	23.22
		50	0	20.71	24.42	24.12	17.90	21.92	21.90	19.39	23.25	23.20	17.26	21.94	21.78
		50	24	24.58	24.48	24.10	21.78	22.01	21.95	23.11	23.21	23.12	20.91	21.89	21.79
		50	49	21.57	24.47	24.07	18.95	21.96	21.96	20.50	23.19	23.15	18.41	21.81	21.87
		100	0	20.63	24.46	24.07	17.98	21.95	21.89	19.49	23.17	23.11	17.23	21.91	21.79
		1	0	17.97	22.60	22.13	15.13	20.04	19.87	16.44	21.60	21.19	13.91	20.30	20.03
		1	49	22.78	22.43	21.96	20.08	19.98	19.89	21.72	21.22	21.03	19.26	19.99	19.90
		1	99	22.91	22.44	21.98	20.19	20.02	20.03	21.90	21.39	21.19	19.34	20.01	20.03
	256QAM	50	0	18.64	22.37	22.13	15.86	19.96	19.90	17.36	21.24	21.19	15.30	19.93	19.77
		50	24	22.52	22.40	22.10	19.89	20.03	20.02	21.46	21.19	21.17	19.33	19.88	19.84
		50	49	19.59	22.41	22.04	16.97	19.95	20.01	18.43	21.17	21.13	16.35	19.82	19.92
		100	0	18.62	22.39	22.10	15.96	19.91	20.00	17.53	21.18	21.12	15.30	19.89	19.81

5G NR n41

Test Engineer ID:	10646	Test Date:	5/25/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR 5G NR n41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				501200	518600	536000	501200	518600	536000	501200	518600	536000	501200	518600	536000
20.0	BPSK	1	0	21.78	23.72	23.91	20.16	22.18	22.01	21.80	24.16	24.09	18.82	21.23	20.97
		1	1	21.63	27.40	27.01	20.00	25.61	25.51	21.86	26.99	26.85	18.74	24.28	24.55
		1	49	27.28	27.21	26.99	25.68	25.55	25.61	27.20	26.89	26.87	24.64	24.46	24.52
		1	50	23.65	23.73	24.20	22.29	22.16	22.04	24.54	23.96	24.06	21.02	21.26	21.12
		25	12	23.67	27.33	27.05	22.19	25.63	25.41	24.02	26.76	26.79	20.87	24.44	24.37
	QPSK	50	0	23.74	26.83	26.55	22.10	25.11	25.05	24.21	26.82	26.79	20.95	24.01	24.04
		1	0	21.30	23.88	23.90	19.82	22.28	22.01	21.42	24.08	23.89	18.22	21.21	21.04
		1	1	21.45	27.70	27.44	19.62	25.70	25.39	21.29	26.81	26.73	18.20	24.36	24.62
		1	49	27.18	27.19	27.13	25.68	25.55	25.60	27.19	26.81	26.82	24.70	24.63	24.54
		1	50	23.76	23.80	23.70	22.14	22.02	21.94	24.52	23.90	24.00	21.13	21.13	21.17
	16QAM	25	12	22.66	27.27	27.18	21.16	25.51	25.55	23.01	26.71	26.72	20.02	24.32	24.53
		50	0	22.71	26.32	26.10	21.13	24.65	24.53	23.19	26.48	26.51	19.86	23.48	23.56
		1	0	21.11	23.42	23.52	20.22	22.05	22.01	21.41	24.03	23.78	18.49	21.29	21.22
		1	1	21.07	26.12	26.04	19.94	25.07	24.61	21.24	26.60	26.51	18.51	23.50	23.74
		1	49	25.70	26.06	26.17	25.13	24.72	24.45	27.06	26.54	26.62	23.57	23.39	23.51
	64QAM	1	50	23.35	23.61	23.66	22.23	22.39	21.62	24.51	23.88	23.87	21.32	21.03	21.47
		25	12	22.20	26.32	26.11	20.68	24.64	24.49	22.61	26.38	26.48	19.41	23.39	23.40
		50	0	22.24	25.51	25.14	20.63	23.61	23.62	22.63	25.39	25.38	19.42	22.53	22.52
		1	0	20.76	24.24	24.24	19.02	21.80	22.39	20.86	23.95	23.70	17.87	21.04	21.13
		1	1	20.87	24.98	24.73	18.91	22.99	23.26	20.58	25.07	24.84	17.71	21.74	21.79
	256QAM	1	49	24.89	23.00	25.05	23.28	23.15	23.25	25.28	24.94	25.05	21.97	22.16	22.23
		1	50	23.74	23.73	24.06	22.00	21.99	22.01	24.34	23.84	23.80	21.37	20.86	21.45
		25	12	22.19	24.99	24.57	20.59	23.06	22.87	22.53	24.94	25.00	19.42	21.76	21.85
		50	0	22.21	24.92	24.64	20.61	23.12	22.97	22.67	24.95	24.90	19.50	22.02	22.07
		1	0	19.35	22.96	22.86	17.27	20.98	20.76	19.20	23.31	23.17	16.37	19.82	20.39
	256QAM	1	1	19.67	23.22	23.23	17.46	21.05	21.23	19.29	23.17	23.07	16.41	20.52	20.26
		1	49	22.88	22.54	23.01	20.95	21.00	21.21	23.61	23.10	23.09	20.40	20.12	19.96
		1	50	22.83	23.73	22.80	20.99	20.79	21.14	23.53	23.15	23.19	20.07	20.39	20.14
		25	12	20.69	22.36	22.59	19.15	20.73	21.12	21.00	22.95	22.98	17.84	20.02	20.05
		50	0	20.72	22.48	22.66	19.10	21.11	20.91	21.02	22.93	22.83	17.98	19.94	20.06

OUTPUT POWER FOR 5G NR n41 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				502200	518600	525000	502200	518600	525000	502200	518600	525000	502200	518600	525000
30.0	BPSK	1	0	22.21	24.06	24.06	20.04	22.07	21.73	21.56	24.23	23.69	18.68	21.17	21.15
		1	1	22.03	27.70	27.65	19.98	25.40	25.62	21.52	26.69	26.63	18.51	24.35	24.63
		1	76	27.39	27.69	27.35	25.70	25.60	25.48	27.20	26.63	26.72	24.70	24.45	24.50
		1	77	24.08	23.92	23.91	22.05	21.88	22.07	24.43	24.10	23.92	21.28	21.03	21.01
		36	18	23.78	27.44	27.40	21.86	25.31	25.27	23.88	26.46	26.55	20.90	24.20	24.49
	QPSK	75	0	23.87	26.88	26.87	21.97	24.91	24.82	24.03	26.46	26.43	20.86	23.83	23.94
		1	0	21.47	24.18	24.00	19.45	21.89	21.79	21.09	24.09	23.62	18.16	20.97	21.23
		1	1	21.53	27.53	27.62	19.55	25.31	25.33	20.99	26.61	26.37	17.86	24.66	24.55
		1	76	27.51	27.69	27.52	25.53	25.31	25.12	26.97	26.57	26.64	24.70	24.59	24.49
		1	77	23.88	23.97	24.02	22.14	21.96	20.78	24.35	23.99	23.81	21.39	20.70	20.98
	16QAM	36	18	22.79	27.43	27.37	20.88	25.37	25.25	22.89	26.41	26.45	19.93	24.28	24.23
		75	0	22.81	26.41	26.45	20.98	24.34	24.27	22.95	26.20	26.09	19.93	23.40	23.45
		1	0	21.77	23.91	23.72	19.56	21.87	22.02	21.01	24.04	23.58	18.07	20.90	21.38
		1	1	21.35	26.76	26.61	19.35	24.45	24.79	20.89	26.39	26.19	17.91	24.60	23.91
		1	76	26.54	26.62	26.48	24.73	24.57	26.73	26.36	26.21	23.61	23.42	23.82	
	64QAM	1	77	23.31	24.12	24.17	22.16	22.18	22.01	24.28	23.98	23.81	20.97	20.71	21.39
		36	18	22.27	26.47	26.40	20.46	24.03	24.19	22.40	26.13	26.19	19.40	23.43	23.34
		75	0	22.37	25.49	25.41	20.47	23.33	23.31	22.42	25.26	25.17	19.38	22.49	22.46
		1	0	21.32	24.24	24.17	19.15	21.98	22.30	20.40	23.64	23.36	17.54	20.93	21.09
		1	1	20.56	25.27	24.83	18.87	22.91	23.23	20.37	24.85	24.37	17.69	22.20	22.01
	256QAM	1	76	24.73	25.20	24.94	23.35	23.02	22.96	24.94	24.79	24.76	22.19	21.97	22.10
		1	77	23.98	23.99	23.71	22.38	22.14	21.90	24.14	23.71	23.72	21.16	20.74	21.01
		36	18	22.31	24.93	24.87	20.39	22.78	22.55	22.30	24.63	24.54	19.33	21.83	21.91
		75	0	22.35	24.97	24.84	20.46	22.83	22.80	22.35	24.70	24.57	19.45	21.97	21.94
		1	0	19.68	23.07	23.06	17.47	20.63	20.99	18.99	22.98	22.76	16.36	19.57	20.28
	256QAM	1	1	19.37	23.19	23.19	17.43	20.89	21.04	19.04	23.14	22.86	16.55	20.32	20.24
		1	76	22.89	23.12	23.29	21.18	20.86	20.78	23.41	22.83	22.88	20.33	20.47	20.23
		1	77	23.15	23.21	23.35	21.17	20.70	20.79	23.42	22.84	22.91	20.47	19.90	20.64
		36	18	20.72	22.91	22.93	18.88	20.61	20.57	20.91	22.62	22.66	17.87	19.82	19.84
		75	0	20.72	22.91	22.94	18.98	20.80	20.83	20.87	22.65	22.57	17.89	19.88	19.86

OUTPUT POWER FOR 5G NR n41 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				503200	518600	534000	503200	518600	534000	503200	518600	534000	503200	518600	534000
40.0	BPSK	1	0	21.86	23.73	23.79	20.21	22.02	21.77	21.52	24.01	23.78	18.84	21.11	21.05
		1	1	21.79	27.34	27.34	20.07	25.46	25.50	21.44	26.70	26.53	18.63	24.60	24.52
		1	104	27.54	27.20	27.31	25.70	25.43	25.42	27.20	26.61	26.60	24.70	24.61	24.49
		1	105	23.66	23.67	23.66	22.03	22.02	21.84	24.31	23.96	23.93	21.31	20.99	21.26
		50	25	23.53	27.16	27.20	21.94	25.30	25.22	24.13	26.55	26.43	21.01	24.35	24.36
		100	0	23.52	26.61	26.58	21.91	24.86	24.76	24.08	26.61	26.48	21.06	23.91	24.04
	QPSK	1	0	21.28	23.68	23.81	19.51	21.83	21.65	21.00	23.85	23.76	17.86	20.94	20.96
		1	1	21.38	27.25	27.44	19.53	25.17	25.24	20.98	26.64	26.39	18.18	24.44	24.19
		1	104	27.16	27.70	27.41	25.36	25.32	25.02	27.04	26.49	26.54	24.66	24.45	24.40
		1	105	23.70	23.64	23.70	21.94	21.65	24.24	23.88	23.91	21.25	21.00	20.97	
		50	25	22.63	27.19	27.38	20.89	25.21	25.15	22.99	26.50	26.35	20.06	24.24	24.48
		100	0	22.55	26.14	26.26	20.93	24.32	24.30	23.00	26.25	26.09	20.01	23.36	23.46
	16QAM	1	0	21.49	23.93	24.30	19.59	22.01	21.94	20.89	23.73	23.67	18.47	21.09	20.94
		1	1	21.63	25.99	26.45	19.73	24.39	24.51	20.88	26.33	26.13	18.33	23.84	23.39
		1	104	26.26	26.45	26.44	24.56	24.55	24.49	26.66	26.17	26.35	23.91	23.80	23.47
		1	105	23.63	23.24	24.07	22.23	21.86	21.86	24.23	23.82	23.88	21.58	21.43	21.14
		50	25	22.03	26.26	26.23	20.41	24.37	24.25	22.55	26.18	26.03	19.65	23.20	23.49
		100	0	22.02	25.12	25.13	20.46	23.31	23.22	22.54	25.24	25.03	19.46	22.39	22.45
	64QAM	1	0	20.86	23.63	23.83	19.08	21.87	21.92	20.19	23.64	23.54	17.77	20.92	20.72
		1	1	21.07	24.87	24.81	19.22	22.87	22.88	20.48	24.90	24.52	17.59	21.62	21.63
		1	104	24.63	24.61	24.51	23.10	22.95	22.96	25.01	24.60	24.74	21.97	21.90	22.33
		1	105	23.68	23.85	23.88	22.06	22.07	22.12	24.07	23.63	23.65	20.92	20.92	20.94
		50	25	21.98	24.67	24.63	20.49	22.80	22.72	22.52	24.70	24.54	19.60	21.71	21.97
		100	0	21.94	24.64	24.74	20.46	22.72	22.77	22.44	24.74	24.56	19.63	21.86	21.89
	256QAM	1	0	19.25	22.69	22.74	17.60	20.87	20.59	18.98	23.00	22.83	16.31	20.42	20.25
		1	1	19.05	22.93	22.82	17.55	20.61	20.65	19.01	23.16	22.73	16.64	20.13	20.38
		1	104	22.88	22.80	22.92	21.13	21.24	20.81	23.20	22.85	22.74	20.52	20.34	20.09
		1	105	22.80	22.67	22.81	20.97	20.97	20.50	23.34	22.96	22.73	20.85	20.16	20.36
		50	25	20.52	22.78	22.63	18.91	20.77	20.75	20.94	22.57	22.51	17.99	18.86	19.93
		100	0	20.45	22.60	22.67	18.93	20.72	20.69	20.96	22.61	22.50	18.01	19.92	19.92

OUTPUT POWER FOR 5G NR n41 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				504200	518600	533000	504200	518600	533000	504200	518600	533000	504200	518600	533000
50.0	BPSK	1	0	21.99	24.23	23.98	20.23	22.12	21.85	21.56	24.16	23.80	18.61	20.96	20.89
		1	1	22.12	27.51	27.66	20.15	25.56	25.51	21.61	26.78	26.52	18.59	24.47	24.45
		1	131	27.60	27.55	27.63	25.70	25.55	25.31	27.20	26.66	26.74	24.67	24.56	24.58
		1	132	23.97	24.03	23.93	22.12	22.00	21.97	24.47	24.00	23.98	21.24	21.09	21.27
		64	32	24.01	27.48	27.51	22.13	25.50	25.33	24.19	26.66	26.50	21.16	24.46	24.50
		128	0	23.82	26.98	26.86	22.09	24.98	24.91	24.14	26.56	26.57	21.01	23.97	24.01
	QPSK	1	0	21.61	24.00	24.01	19.64	21.96	21.81	21.16	24.14	23.77	18.11	21.10	21.03
		1	1	21.58	27.22	27.38	19.57	25.41	25.33	21.18	26.75	26.40	18.16	24.42	24.65
		1	131	27.61	27.70	27.70	25.41	25.39	25.26	27.13	26.60	26.45	24.66	24.70	24.68
		1	132	23.85	23.84	24.09	22.04	22.01	21.91	24.45	23.98	23.85	21.20	21.13	21.00
		64	32	22.90	27.52	27.45	21.12	25.55	25.43	23.28	26.58	26.48	20.11	24.44	24.50
		128	0	22.79	26.48	26.45	21.08	24.48	24.39	23.15	26.32	26.19	20.04	23.45	23.51
	16QAM	1	0	21.72	24.09	24.04	19.74	22.14	22.01	21.09	24.08	23.71	18.13	20.95	21.17
		1	1	21.68	26.32	26.32	19.83	24.68	24.89	21.09	26.54	26.23	18.29	23.28	23.43
		1	131	26.32	26.47	26.66	24.87	24.57	24.32	26.74	26.42	26.37	23.65	23.78	23.70
		1	132	23.92	24.15	24.06	22.26	22.25	21.93	24.44	23.96	23.87	21.14	21.07	20.71
		64	32	22.46	26.56	26.45	20.58	24.51	24.47	22.69	26.24	26.14	19.60	23.43	23.52
		128	0	22.40	25.50	25.43	20.60	23.52	23.41	22.62	25.25	25.15	19.55	22.42	22.51
	64QAM	1	0	21.02	24.27	24.01	19.37	22.08	22.18	20.64	24.02	23.53	17.83	21.27	21.62
		1	1	21.36	25.14	25.06	19.18	23.21	23.09	20.68	25.05	24.70	17.99	22.66	22.27
		1	131	24.87	25.22	25.25	23.18	23.16	22.65	25.17	24.78	24.86	22.37	22.30	22.35
		1	132	24.35	23.70	23.87	22.19	22.02	22.23	24.13	23.78	23.63	21.23	21.37	21.42
		64	32	22.35	25.00	24.91	20.60	22.99	22.93	22.65	24.75	24.57	19.56	21.97	21.99
		128	0	22.39	25.02	24.95	20.62	22.98	23.01	22.59	24.84	24.69	19.59	22.02	22.05
	256QAM	1	0	19.51	23.11	23.24	17.70	21.03	20.85	19.23	23.31	22.80	16.13	19.93	20.22
		1	1	19.90	23.10	22.99	17.62	21.14	21.06	19.18	23.22	22.90	16.21	19.94	20.15
		1	131	22.98	22.98	23.09	21.07	21.27	20.79	23.41	23.00	23.03	20.36	20.19	20.12
		1	132	23.33	23.07	23.14	21.06	21.27	20.63	23.42	22.97	22.97	20.31	20.19	20.26
		64	32	20.86	23.02	22.86	19.03	20.99	20.93	21.23	22.76	22.51	18.02	19.96	19.99
		128	0	20.89	23.02	22.86	19.10	20.98	20.90	21.07	22.74	22.58	18.01	19.95	20.02

OUTPUT POWER FOR 5G NR n41 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				505200	518600	532000	505200	518600	532000	505200	518600	532000	505200	518600	532000
60.0	BPSK	1	0	22.03	23.98	23.92	20.04	22.02	21.83	21.60	24.28	23.91	18.60	20.96	20.95
		1	1	22.19	27.62	27.27	20.10	25.40	25.60	21.77	27.05	26.66	18.67	24.59	24.40
		1	160	27.66	27.68	27.46	25.61	25.62	25.47	27.20	26.93	26.92	24.68	24.51	24.45
		1	161	23.90	24.08	23.88	22.07	22.06	21.96	24.34	23.98	24.03	21.03	21.07	21.15
		81	40	23.81	27.53	27.54	22.18	25.56	25.53	24.45	26.78	26.65	21.14	24.57	24.54
		162	0	23.95	27.03	27.08	22.13	25.02	24.92	24.30	26.96	26.70	21.20	24.06	24.04
	QPSK	1	0	21.37	24.00	23.72	19.51	21.91	21.93	21.19	24.22	23.81	18.09	21.12	21.12
		1	1	21.58	27.63	27.42	19.67	25.52	25.62	21.23	26.96	26.58	18.13	24.53	24.61
		1	160	27.70	27.58	27.52	25.70	25.66	25.70	27.13	26.75	26.82	24.70	24.67	24.61
		1	161	24.13	24.03	23.89	22.08	22.04	22.06	24.37	23.97	24.12	21.33	21.21	21.35
		81	40	22.84	27.56	27.52	21.13	25.51	25.41	23.38	26.74	26.59	20.09	24.54	24.53
		162	0	22.92	26.54	26.56	21.14	24.54	24.43	23.29	26.59	26.29	20.18	23.55	23.54
	16QAM	1	0	21.58	24.02	23.54	19.61	22.04	21.81	21.00	24.36	23.77	18.09	20.94	20.81
		1	1	21.73	26.58	26.18	19.41	24.43	24.43	21.15	26.65	26.36	18.19	23.55	23.66
		1	160	26.80	26.30	26.49	24.43	24.44	24.46	26.82	26.58	26.55	23.60	23.94	23.86
		1	161	24.33	23.95	23.69	22.06	22.06	21.99	24.32	24.07	24.11	21.28	21.40	21.33
		81	40	22.38	26.51	26.60	20.61	24.50	24.43	22.88	26.55	26.32	19.61	23.52	23.56
		162	0	22.40	25.55	25.57	20.68	23.54	23.43	22.82	25.47	25.35	19.67	22.52	22.54
	64QAM	1	0	21.29	23.69	24.13	18.83	21.94	22.14	20.44	24.10	23.47	17.76	21.30	21.29
		1	1	21.15	24.80	25.03	18.96	23.00	23.04	20.65	25.23	24.94	17.82	22.30	22.28
		1	160	24.89	25.16	25.41	23.04	23.19	22.98	25.29	25.00	25.11	22.46	22.39	22.39
		1	161	24.19	24.16	24.28	22.02	21.87	22.07	24.15	23.93	23.95	21.47	21.28	21.63
		81	40	22.30	25.01	25.10	20.65	23.02	22.94	22.85	25.03	24.79	19.66	22.01	22.04
		162	0	22.43	25.00	25.08	20.63	23.09	22.92	22.81	24.94	24.82	19.64	22.04	22.09
	256QAM	1	0	19.83	22.94	22.71	17.49	21.02	20.95	19.20	23.50	22.93	16.12	20.14	19.97
		1	1	19.74	22.94	23.07	17.81	20.92	20.98	19.04	23.38	23.07	16.10	20.16	20.18
		1	160	22.66	23.08	23.04	21.23	21.17	21.18	23.54	23.15	23.24	20.44	20.21	20.15
		1	161	23.10	23.15	22.93	21.19	21.02	21.25	23.41	23.06	23.19	20.41	20.52	20.11
		81	40	20.89	23.06	22.99	19.11	21.01	20.96	21.35	23.02	22.68	18.20	19.99	19.99
		162	0	20.96	23.02	23.01	19.12	21.07	20.87	21.30	22.99	22.85	18.18	20.07	20.05

OUTPUT POWER FOR 5G NR n41 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				507200	518600	530000	507200	518600	530000	507200	518600	530000	507200	518600	530000
80.0	BPSK	1	0	21.82	21.73	23.91	20.20	20.03	22.02	21.89	22.54	24.21	18.63	19.11	20.92
		1	1	21.95	21.97	27.52	20.28	20.24	25.64	22.04	22.49	26.90	18.82	18.97	24.42
		1	215	27.70	27.40	27.48	25.61	25.66	25.55	27.20	27.01	26.96	24.66	24.47	24.55
		1	216	24.01	23.92	23.91	22.07	21.91	21.96	24.42	24.36	24.14	21.31	20.93	20.96
		108	54	23.98	27.55	27.44	22.18	25.67	25.57	24.69	27.07	26.99	21.21	24.54	24.49
		216	0	23.99	26.99	27.04	22.12	24.09	25.09	24.47	27.03	26.98	21.15	24.11	24.06
	QPSK	1	0	21.46	21.24	23.98	19.62	19.55	22.05	21.31	21.97	24.18	18.15	18.64	20.91
		1	1	21.59	21.31	27.49	19.67	19.51	25.70	21.30	21.86	26.83	18.43	18.38	24.57
		1	215	27.67	27.50	27.64	25.63	25.53	25.51	27.12	26.90	26.86	24.52	24.64	24.70
		1	216	23.98	23.74	23.94	22.09	21.97	21.92	24.28	24.08	24.11	21.42	21.06	21.11
		108	54	22.88	27.53	27.53	21.17	25.60	25.51	23.66	26.97	26.94	20.19	24.50	24.56
		216	0	22.89	26.64	26.54	21.13	24.63	24.60	23.44	26.68	26.61	20.13	23.56	23.62
	16QAM	1	0	21.24	21.16	23.67	19.80	19.63	22.07	21.54	21.96	24.13	18.22	18.68	21.14
		1	1	21.64	21.29	26.18	19.90	19.93	24.69	21.56	21.93	26.60	18.79	18.16	23.69
		1	215	26.21	26.10	26.36	24.80	24.57	24.49	26.92	26.67	26.77	23.50	23.21	23.92
		1	216	23.59	23.93	23.74	22.39	22.26	22.18	24.27	24.14	24.13	21.25	21.34	21.47
		108	54	22.36	26.51	26.50	20.67	24.64	24.52	23.16	26.71	26.61	19.75	23.45	23.58
		216	0	22.42	25.50	25.56	20.64	23.65	23.53	22.94	25.70	25.53	19.64	22.55	22.66
	64QAM	1	0	21.22	20.99	24.33	19.23	19.22	22.20	20.70	21.40	24.04	17.94	17.82	20.66
		1	1	21.27	20.82	25.15	19.46	19.44	22.96	20.66	21.57	25.34	18.00	17.64	21.98
		1	215	25.19	25.21	25.35	23.29	23.10	22.97	25.36	25.16	25.12	22.34	22.00	22.11
		1	216	24.44	24.23	24.48	22.09	21.99	21.87	24.20	24.07	24.08	21.22	21.00	21.08
		108	54	22.33	24.94	25.03	20.64	23.13	23.00	23.11	25.10	25.03	19.71	22.08	22.07
		216	0	22.38	24.97	24.97	20.63	23.13	23.10	22.90	25.18	25.04	19.67	22.07	22.08
	256QAM	1	0	19.27	19.33	22.59	17.64	17.40	20.80	19.53	20.02	23.20	16.50	16.78	20.09
		1	1	19.51	19.26	23.18	17.61	17.54	21.21	19.55	19.98	23.47	16.53	16.53	20.35
		1	215	23.18	22.84	22.72	20.95	21.17	21.02	23.27	23.44	23.29	20.19	20.38	20.32
		1	216	22.90	22.96	23.06	21.11	20.90	20.77	23.37	23.24	23.25	20.58	20.63	20.60
		108	54	20.87	22.96	22.99	19.17	21.09	21.04	21.66	23.13	23.11	18.22	20.00	20.09
		216	0	20.87	23.01	23.05	19.11	21.12	21.13	21.50	23.24	23.13	18.14	20.06	20.15

OUTPUT POWER FOR 5G NR n41 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				508200	518600	529000	508200	518600	529000	508200	518600	529000	508200	518600	529000
90.0	BPSK	1	0	21.86	21.83	23.89	19.96	19.98	21.87	21.84	22.40	24.16	18.66	19.07	20.81
		1	1	22.03	21.85	27.61	20.14	20.07	25.70	21.96	22.56	26.98	18.76	19.37	24.70
		1	243	27.63	27.47	27.48	25.59	25.56	25.38	26.56	27.03	27.00	24.57	24.57	24.62
		1	244	24.00	23.84	23.91	21.99	21.98	21.92	22.50	24.12	24.12	20.97	21.18	20.90
		120	60	23.92	27.47	27.44	22.24	25.57	25.54	24.69	27.05	26.94	21.28	24.57	24.61
		243	0	23.87	26.97	26.89	22.12	25.02	25.01	24.62	27.20	26.96	21.22	24.17	24.03
	QPSK	1	0	21.41	21.15	23.87	19.42	19.43	21.86	21.42	21.88	24.16	18.05	18.52	20.90
		1	1	21.52	21.34	27.61	19.67	19.59	25.62	21.44	22.05	26.94	18.33	18.71	24.53
		1	243	27.62	27.44	27.70	25.49	25.42	25.41	26.43	26.89	26.91	24.68	24.65	24.66
		1	244	23.95	23.97	23.93	21.86	21.85	22.47	24.02	24.07	21.08	21.09	21.17	
		120	60	22.90	27.54	27.35	21.13	25.57	25.57	23.67	26.98	26.92	20.25	24.60	24.52
		243	0	22.92	26.48	26.45	20.98	24.50	24.53	23.60	26.88	26.76	20.13	24.60	23.53
	16QAM	1	0	21.27	21.09	23.81	19.40	19.38	21.47	21.44	21.83	24.13	18.23	19.05	21.19
		1	1	21.56	21.26	26.53	19.52	19.48	24.40	21.56	22.14	26.78	18.81	19.19	23.81
		1	243	26.45	26.37	26.76	24.42	24.38	24.24	26.28	26.78	26.84	24.14	24.10	24.34
		1	244	24.02	23.53	23.79	21.77	21.62	21.68	22.51	24.26	24.40	21.64	21.54	21.47
		120	60	22.36	26.51	26.45	20.62	24.54	24.43	23.17	26.61	26.56	19.75	23.67	23.59
		243	0	22.39	25.50	25.42	20.64	23.56	23.51	23.16	25.72	25.69	19.68	22.59	22.71
	64QAM	1	0	21.35	21.10	23.95	19.10	19.17	22.35	20.80	21.39	24.03	17.29	17.61	20.71
		1	1	21.42	21.24	25.10	19.44	19.34	23.26	20.84	21.49	25.34	17.63	18.07	21.84
		1	243	25.22	25.36	25.35	23.23	23.35	23.36	24.70	25.04	25.16	22.21	22.01	22.01
		1	244	24.39	24.20	23.50	22.25	22.04	22.32	24.32	24.05	24.15	21.10	21.04	21.22
		120	60	22.35	25.07	24.86	20.64	23.10	23.04	23.13	25.14	25.09	19.72	20.65	22.03
		243	0	22.39	25.00	24.87	20.61	22.90	22.98	23.07	25.16	25.16	19.70	22.06	22.09
	256QAM	1	0	19.54	19.24	23.05	17.54	17.33	20.59	19.56	20.04	23.02	16.28	16.67	19.86
		1	1	19.88	19.40	22.96	17.65	17.61	20.95	19.65	20.36	23.28	16.60	17.04	19.99
		1	243	23.10	22.82	23.09	21.38	20.82	21.10	22.96	23.38	23.39	20.21	20.14	20.10
		1	244	23.07	22.76	23.16	20.99	20.91	21.24	21.60	23.31	23.27	19.92	20.13	20.16
		120	60	20.86	23.02	22.84	19.06	21.09	21.02	21.58	23.20	23.06	18.23	20.32	20.06
		243	0	20.89	22.97	22.86	19.11	20.86	20.95	21.47	23.16	23.13	18.19	20.08	20.12

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	21.58	21.40	23.59	19.91	19.80	21.67	21.60	22.38	24.03	18.42	18.84	20.78
		1	1	21.99	21.68	27.70	20.24	20.11	25.45	21.98	22.60	27.12	18.73	19.07	24.30
		1	271	27.52	27.59	27.49	25.70	25.48	25.21	27.17	27.07	27.11	24.60	24.61	24.66
		1	272	23.90	23.82	23.97	22.02	21.82	21.68	24.19	24.22	24.23	20.98	20.84	21.09
		135	67	23.85	27.64	27.27	22.08	25.53	25.55	24.67	27.09	27.03	21.24	24.53	24.61
		270	0	23.90	26.79	26.85	22.11	24.95	25.04	24.54	27.20	26.99	21.08	24.09	24.11
	QPSK	1	0	21.15	20.89	23.58	19.27	19.32	21.56	21.12	21.93	23.99	17.87	18.31	20.73
		1	1	21.34	21.26	27.44	19.44	19.50	25.48	21.42	22.19	27.06	18.32	18.43	24.52
		1	271	27.53	27.56	27.54	25.63	25.47	25.20	27.11	27.09	27.08	24.70	24.54	24.60
		1	272	23.84	23.87	23.77	21.89	21.78	21.79	24.12	24.23	24.17	21.01	20.93	21.03
		135	67	22.81	27.52	27.36	21.05	25.54	25.56	23.63	27.08	26.96	20.19	24.56	24.61
		270	0	22.88	26.46	26.38	21.19	24.46	24.55	23.51	26.92	26.62	20.16	23.51	23.60
	16QAM	1	0	21.25	20.78	23.70	19.21	19.17	21.62	21.09	21.73	23.89	18.12	18.93	21.17
		1	1	21.50	21.15	26.41	19.48	19.25	24.19	21.30	22.12	26.74	18.46	18.90	24.20
		1	271	26.92	26.69	26.57	24.78	24.07	23.93	26.83	26.50	26.85	24.06	24.04	23.79
		1	272	24.10	23.92	24.18	22.05	21.83	21.71	24.11	24.34	24.07	21.30	21.46	21.53
		135	67	22.22	26.51	26.40	20.72	24.57	24.57	23.18	26.79	26.68	19.74	23.56	23.53
		270	0	22.47	25.41	25.31	20.70	23.47	23.54	22.98	25.86	25.75	19.59	22.55	22.58
	64QAM	1	0	20.92	20.23	23.81	19.01	19.05	21.81	20.52	21.17	23.74	17.50	17.99	20.32
		1	1	20.98	20.70	24.67	19.52	19.42	22.97	20.81	21.53	25.05	17.92	17.90	21.61
		1	271	25.38	25.09	25.15	23.61	23.32	22.99	25.10	24.99	25.07	22.22	22.12	22.24
		1	272	23.97	23.97	23.92	22.50	22.15	21.75	24.04	23.82	23.92	20.89	20.81	20.75
		135	67	22.33	24.96	24.90	20.62	22.91	22.93	23.16	25.32	25.14	19.69	22.12	22.12
		270	0	22.29	24.90	24.80	20.75	23.00	23.07	22.98	25.30	25.23	19.63	22.09	22.05
	256QAM	1	0	18.86	19.16	23.00	17.41	17.14	20.61	19.21	20.15	23.23	16.16	16.52	19.94
		1	1	19.58	18.91	22.78	17.69	17.67	21.22	19.42	20.45	23.36	16.46	16.66	20.11
		1	271	23.25	23.19	23.27	21.29	20.92	20.96	23.51	23.32	23.42	20.21	20.27	20.47
		1	272	23.08	23.01	22.91	20.81	20.94	20.55	23.50	23.20	23.35	20.18	20.04	20.27
		135	67	20.82	22.91	22.75	19.21	20.89	21.05	21.70	23.29	23.07	18.19	19.97	20.08
		270	0	20.93	22.88	22.89	19.20	20.98	21.04	21.42	23.32	23.18	18.09	20.17	20.08

8.12. LTE BAND 48

LTE BAND 48

Test Engineer ID:	10646	Test Date:	3/18/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 48 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55265	55990	56715	55260	55990	56715	55265	55990	56715	55260	55990	56715
5.0	QPSK	1	0	23.36	23.46	23.43	22.85	22.93	23.00	24.98	25.09	25.15	22.41	22.45	22.47
		1	12	23.44	23.32	23.46	22.78	22.86	22.93	24.82	25.04	25.03	22.20	22.36	22.26
		1	24	23.34	23.45	23.48	22.92	23.00	22.99	25.01	25.15	25.20	22.42	22.50	22.44
		12	0	23.41	23.45	23.44	22.00	22.03	22.06	24.09	24.20	24.14	21.38	21.48	21.47
		12	6	23.36	23.35	23.45	21.93	21.97	22.00	24.00	24.15	24.15	21.32	21.41	21.43
	16QAM	12	11	23.35	23.30	23.48	21.95	21.99	22.01	23.99	24.16	24.11	21.33	21.44	21.45
		25	0	23.34	23.42	23.43	21.92	22.02	22.04	23.99	24.15	24.16	21.40	21.50	21.44
		1	0	23.48	23.44	23.38	22.14	22.29	22.44	24.22	24.48	24.56	21.62	21.85	21.67
		1	12	23.36	23.42	23.41	22.13	22.28	22.34	24.18	24.47	24.47	21.59	21.76	21.55
		1	24	23.32	23.33	23.49	22.18	22.36	22.41	24.26	24.52	24.57	21.68	21.92	21.64
	64QAM	12	0	23.31	23.44	23.45	21.03	21.00	21.12	23.13	23.18	23.29	20.41	20.60	20.56
		12	6	23.49	23.40	23.38	21.06	21.04	21.15	23.15	23.17	23.24	20.35	20.60	20.51
		12	11	23.45	23.37	23.47	20.97	21.03	21.14	23.06	23.15	23.27	20.36	20.55	20.54
		25	0	23.35	23.44	23.44	20.98	21.03	21.06	23.03	23.25	23.17	20.46	20.44	20.46
		1	0	23.43	23.30	23.34	20.95	21.52	21.33	22.99	23.71	23.52	20.83	20.68	20.51
	256QAM	1	12	23.34	23.35	23.45	20.87	21.54	21.29	22.94	23.73	23.46	20.84	20.66	20.38
		1	24	23.40	23.35	23.45	20.93	21.58	21.32	23.05	23.78	23.49	20.88	20.70	20.45
		12	0	22.72	22.86	22.59	20.01	20.17	19.95	22.09	22.31	22.14	19.47	19.43	19.55
		12	6	22.73	22.84	22.62	20.01	20.09	20.00	22.12	22.32	22.09	19.46	19.38	19.48
		12	11	22.68	22.87	22.63	19.97	20.12	19.99	22.12	22.34	22.11	19.45	19.43	19.50
	256QAM	25	0	22.68	22.71	22.57	20.02	20.00	19.93	22.06	22.16	22.05	19.33	19.33	19.48
		1	0	20.95	21.16	21.07	18.25	18.45	18.50	20.35	20.60	20.61	17.78	17.85	17.84
		1	12	20.98	21.07	21.04	18.18	18.36	18.41	20.35	20.60	20.51	17.70	17.77	17.74
		1	24	21.06	21.15	21.09	18.37	18.44	18.52	20.43	20.61	20.58	17.74	17.89	17.91
		12	0	20.66	20.72	20.67	17.95	17.95	18.07	20.03	20.16	20.21	17.38	17.49	17.49
256QAM	12	6	20.68	20.68	20.67	17.96	17.96	18.02	20.05	20.11	20.17	17.28	17.43	17.43	
	12	11	20.61	20.70	20.64	17.92	17.97	18.04	20.05	20.14	20.19	17.29	17.44	17.46	
	25	0	20.69	20.78	20.62	17.96	18.01	18.02	20.04	20.21	20.14	17.34	17.40	17.43	

OUTPUT POWER FOR LTE BAND 48 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55290	55990	56690	55290	55990	56690	55290	55990	56690	55290	55990	56690
10.0	QPSK	1	0	23.47	23.34	23.32	22.79	23.00	22.77	24.96	25.17	24.99	22.39	22.50	22.28
		1	24	23.35	23.32	23.39	22.68	22.91	22.75	24.90	25.13	25.00	22.25	22.37	22.27
		1	49	23.43	23.46	23.32	22.77	22.95	22.80	25.00	25.20	25.00	22.31	22.39	22.32
		25	0	23.45	23.40	23.41	21.88	21.97	21.91	23.99	24.27	24.06	21.46	21.52	21.42
		25	12	23.42	23.40	23.46	21.98	22.01	21.83	24.10	24.22	24.09	21.40	21.47	21.39
	16QAM	25	24	23.39	23.33	23.47	21.96	21.95	21.96	24.08	24.19	24.17	21.40	21.46	21.49
		50	0	23.38	23.39	23.44	21.91	21.96	21.87	24.03	24.18	24.07	21.41	21.43	21.41
		1	0	23.35	23.32	23.41	22.16	22.38	22.23	24.27	24.57	24.43	21.57	21.83	21.69
		1	24	23.30	23.37	23.49	22.04	22.24	22.17	24.43	24.53	24.37	21.51	21.73	21.64
		1	49	23.39	23.47	23.41	22.24	22.36	22.20	24.22	24.55	24.49	21.56	21.84	21.73
	64QAM	25	0	23.38	23.42	23.35	20.88	21.01	20.94	22.93	23.29	23.11	20.41	20.57	20.48
		25	12	23.47	23.39	23.47	20.97	20.99	20.93	23.06	23.27	23.11	20.34	20.52	20.47
		25	24	23.36	23.37	23.30	20.92	20.99	21.01	23.08	23.27	23.19	20.39	20.51	20.54
		50	0	23.42	23.50	23.46	21.00	21.00	20.92	23.08	23.22	23.09	20.39	20.50	20.42
		1	0	23.50	23.36	23.30	21.40	21.44	20.83	23.53	23.70	23.02	20.88	21.23	20.46
	256QAM	1	24	23.44	23.32	23.43	21.45	21.44	20.84	23.57	23.62	23.03	20.70	21.22	20.52
		1	49	23.31	23.47	23.48	21.30	21.56	20.97	23.43	23.99	23.11	20.88	21.30	20.60
		25	0	22.61	22.66	22.59	19.89	19.92	20.02	21.97	22.14	22.14	19.40	19.49	19.52
		25	12	22.61	22.63	22.62	19.95	19.90	20.04	22.08	22.16	22.20	19.40	19.46	19.58
		25	24	22.54	22.62	22.64	19.88	19.87	20.10	22.08	22.11	22.25	19.35	19.41	19.65
	256QAM	50	0	22.59	22.63	22.43	19.91	19.94	19.85	22.05	22.22	22.14	19.39	19.46	19.42
		1	0	20.26	21.04	20.70	17.60	18.37	17.99	19.75	20.59	20.26	17.06	17.85	17.61
		1	24	20.26	20.74	20.66	17.56	18.33	18.11	19.74	20.58	20.28	17.02	17.79	17.59
		1	49	20.26	20.88	20.71	17.89	18.36	18.05	19.82	20.60	20.39	17.07	17.77	17.54
		25	0	20.68	20.65	20.46	17.97	17.96	17.96	20.12	20.17	20.08	17.49	17.48	17.41
256QAM	25	12	20.69	20.74	20.57	18.00	18.04	18.01	20.13	20.27	20.21	17.44	17.53	17.48	
	25	24	20.65	20.66	20.58	18.00	17.93	17.98	20.15	20.19	20.24	17.47	17.44	17.49	
	50	0	20.60	20.69	20.54	17.89	17.99	18.02	20.10	20.21	20.12	17.41	17.50	17.45	

OUTPUT POWER FOR LTE BAND 48 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55315	55990	56665	55315	55990	56665	55315	55990	56665	55315	55990	56665
15.0	QPSK	1	0	23.44	23.40	23.43	22.89	22.95	23.00	25.07	25.06	25.12	22.42	22.50	22.41
		1	37	23.36	23.44	23.34	22.82	22.85	22.94	24.87	25.05	25.06	22.28	22.43	22.39
		1	74	23.41	23.43	23.47	22.98	22.96	22.98	25.08	25.14	25.20	22.43	22.35	22.49
		36	0	23.30	23.34	23.42	22.04	22.04	22.05	24.05	24.20	24.17	21.46	21.46	21.48
		36	16	23.39	23.48	23.46	22.06	22.10	22.04	24.09	24.29	24.13	21.48	21.55	21.53
		36	35	23.43	23.35	23.34	22.06	22.03	22.08	24.09	24.19	24.22	21.42	21.46	21.53
		75	0	23.31	23.47	23.31	22.07	22.07	22.01	24.13	24.22	24.16	21.40	21.47	21.55
	16QAM	1	0	23.50	23.45	23.34	22.26	22.27	22.30	24.31	24.51	24.62	21.64	21.66	21.71
		1	37	23.37	23.49	23.34	22.24	22.24	22.32	24.34	24.44	24.49	21.59	21.74	21.76
		1	74	23.36	23.50	23.45	22.31	22.31	22.34	24.36	24.53	24.53	21.66	21.68	21.83
		36	0	23.45	23.47	23.31	20.98	21.02	21.02	23.08	23.24	23.21	20.45	20.50	20.52
		36	16	23.38	23.42	23.38	21.02	21.10	21.03	23.10	23.29	23.13	20.44	20.56	20.54
		36	35	23.31	23.48	23.46	20.99	21.15	21.08	23.10	23.26	23.23	20.45	20.52	20.56
		75	0	23.48	23.34	23.43	21.12	21.10	20.98	23.15	23.26	23.15	20.45	20.49	20.52
	64QAM	1	0	23.49	23.33	23.41	21.49	21.17	21.05	23.53	23.27	23.05	20.83	20.61	20.26
		1	37	23.50	23.30	23.43	21.54	21.11	20.99	23.61	23.27	23.11	20.84	20.56	20.50
		1	74	23.31	23.37	23.33	21.56	21.27	21.10	23.66	23.43	23.20	20.96	20.67	20.74
		36	0	22.68	22.62	22.59	20.09	20.04	20.16	22.16	22.21	22.25	19.56	19.49	19.59
		36	16	22.66	22.65	22.64	20.14	20.10	20.15	22.24	22.29	22.25	19.53	19.56	19.62
		36	35	22.62	22.64	22.64	20.12	20.08	20.13	22.18	22.23	22.32	19.50	19.53	19.60
		75	0	22.61	22.67	22.53	20.09	20.13	20.05	22.16	22.27	22.15	19.45	19.51	19.57
	256QAM	1	0	20.23	20.88	20.54	17.66	18.43	18.10	19.76	20.51	20.25	17.20	17.83	17.56
		1	37	20.20	20.88	20.53	17.67	18.35	18.09	19.77	20.50	20.22	17.11	17.80	17.60
		1	74	20.26	21.02	20.63	17.78	18.51	18.19	19.90	20.69	20.37	17.18	18.03	17.66
		36	0	20.67	20.59	20.55	18.04	18.02	18.12	20.17	20.23	20.27	17.58	17.46	17.60
		36	16	20.55	20.66	20.59	18.06	18.09	18.09	20.19	20.27	20.25	17.46	17.57	17.65
		36	35	20.52	20.61	20.57	17.99	18.06	18.13	20.12	20.25	20.33	17.42	17.54	17.62
		75	0	20.56	20.66	20.61	18.08	18.09	18.04	20.19	20.31	20.19	17.44	17.60	17.57

OUTPUT POWER FOR LTE BAND 48 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55340	55990	56640	55340	55990	56640	55340	55990	56640	55340	55990	56640
20.0	QPSK	1	0	23.48	23.35	23.31	23.00	23.00	22.90	25.14	25.20	25.16	22.49	22.42	22.44
		1	49	23.43	23.42	23.50	22.85	22.85	22.83	24.98	25.13	25.04	22.34	22.34	22.36
		1	99	23.35	23.32	23.44	22.95	22.94	22.90	25.10	25.18	25.15	22.40	22.37	22.50
		50	0	23.33	23.43	23.38	21.99	21.99	21.97	24.06	24.19	24.18	21.40	21.43	21.49
		50	24	23.42	23.46	23.30	22.04	22.07	21.97	24.12	24.23	24.21	21.45	21.55	21.56
		50	49	23.49	23.34	23.31	22.02	22.02	22.04	24.10	24.24	24.26	21.42	21.47	21.54
		100	0	23.32	23.40	23.40	22.05	22.03	21.98	24.15	24.25	24.14	21.50	21.51	21.55
	16QAM	1	0	23.40	23.44	23.40	22.10	22.49	22.49	24.56	24.69	24.64	21.73	21.97	22.12
		1	49	23.40	23.31	23.39	22.02	22.42	22.34	24.14	24.55	24.47	21.54	21.96	21.98
		1	99	23.43	23.46	23.40	22.12	22.43	22.45	24.40	24.65	24.61	21.66	21.91	22.14
		50	0	23.33	23.39	23.40	21.01	21.05	21.02	23.10	23.25	23.17	20.44	20.49	20.50
		50	24	23.32	23.49	23.48	21.04	21.13	21.00	23.17	23.31	23.26	20.50	20.56	20.59
		50	49	23.48	23.39	23.47	21.03	21.08	21.02	23.11	23.29	23.23	20.48	20.53	20.55
		100	0	23.31	23.38	23.40	21.09	21.06	20.96	23.17	23.24	23.13	20.53	20.48	20.54
	64QAM	1	0	23.49	23.32	23.40	21.11	21.26	21.55	23.22	23.46	23.74	20.56	20.67	21.05
		1	49	23.49	23.49	23.39	21.08	21.17	21.45	23.18	23.42	23.66	20.49	20.67	20.95
		1	99	23.31	23.46	23.41	21.19	21.21	21.54	23.28	23.48	23.75	20.56	20.68	21.08
		50	0	22.65	22.72	22.64	20.02	20.07	20.05	22.11	22.27	22.20	19.47	19.54	19.57
		50	24	22.68	22.78	22.65	20.06	20.12	20.05	22.20	22.37	22.30	19.51	19.63	19.65
		50	49	22.66	22.76	22.66	20.03	20.12	20.10	22.13	22.30	22.25	19.50	19.60	19.60
		100	0	22.66	22.74	22.59	20.05	20.11	20.03	22.14	22.33	22.15	19.47	19.59	19.57
	256QAM	1	0	20.80	21.02	20.98	18.15	18.42	18.37	20.31	20.60	20.56	17.60	17.88	17.89
		1	49	20.67	20.99	20.96	18.09	18.28	18.35	20.22	20.51	20.50	17.51	17.86	17.89
		1	99	20.76	21.09	20.99	18.16	18.40	18.35	20.33	20.62	20.54	17.61	17.92	17.91
		50	0	20.67	20.68	20.64	18.02	17.98	18.02	20.16	20.24	20.23	17.49	17.54	17.56
		50	24	20.74	20.75	20.58	18.09	18.04	18.00	20.23	20.30	20.30	17.54	17.55	17.61
		50	49	20.63	20.77	20.68	18.07	18.03	18.08	20.18	20.31	20.27	17.50	17.56	17.60
		100	0	20.70	20.78	20.61	18.04	18.11	18.00	20.19	20.33	20.18	17.50	17.62	17.61

8.13. LTE BAND 66 AND 5G NR n66

LTE BAND 66

Test Engineer ID:	10646	Test Date:	3/1/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	QPSK	1	0	25.64	25.57	25.54	23.61	23.51	23.64	25.06	25.09	25.18	23.60	23.67	23.59
		1	2	25.70	25.61	25.64	23.67	23.62	23.70	25.12	25.13	25.20	23.63	23.70	23.65
		1	5	25.65	25.57	25.52	23.62	23.54	23.66	25.05	25.10	25.14	23.59	23.65	23.59
		3	0	25.58	25.54	25.49	23.65	23.54	23.55	25.01	25.01	25.08	23.54	23.53	23.53
		3	1	25.66	25.58	25.54	23.65	23.62	23.60	25.05	25.05	25.06	23.57	23.54	23.57
		3	2	25.62	25.57	25.55	23.66	23.60	23.59	25.04	25.01	25.10	23.49	23.56	23.57
	16QAM	6	0	24.70	24.65	24.57	22.66	22.62	22.63	24.08	24.08	24.14	22.59	22.59	22.58
		1	0	24.76	24.74	25.02	23.05	22.67	22.76	24.13	24.25	24.54	22.69	23.03	22.62
		1	2	24.85	24.76	25.08	23.11	22.75	22.76	24.23	24.28	24.65	22.77	23.10	22.69
		1	5	24.75	24.74	25.00	23.02	22.69	22.72	24.17	24.27	24.53	22.74	23.01	22.63
		3	0	24.89	24.71	24.79	22.89	22.81	22.68	24.32	24.16	24.38	22.66	22.80	22.80
		3	1	24.99	24.73	24.84	22.93	22.87	22.78	24.36	24.24	24.38	22.70	22.84	22.80
	64QAM	3	2	24.99	24.78	24.82	22.91	22.84	22.77	24.33	24.21	24.38	22.70	22.82	22.82
		6	0	23.86	23.79	23.48	21.60	21.77	21.77	23.28	23.23	23.04	21.69	21.50	21.72
		1	0	23.69	24.07	23.79	21.82	21.95	22.12	23.32	23.51	23.36	21.98	21.77	21.83
		1	2	23.97	24.16	23.84	21.91	22.03	22.23	23.35	23.65	23.41	22.11	21.84	21.86
		1	5	23.90	24.05	23.72	21.83	21.99	22.11	23.33	23.51	23.28	22.00	21.73	21.85
		3	0	23.52	23.98	23.76	21.80	21.64	21.96	23.10	23.40	23.31	21.91	21.71	21.60
	256QAM	3	1	23.61	24.00	23.82	21.89	21.67	22.00	23.14	23.48	23.37	21.95	21.83	21.64
		3	2	23.52	24.00	23.82	21.86	21.65	22.00	23.16	23.45	23.37	21.96	21.80	21.62
		6	0	22.72	22.66	22.96	20.99	20.75	20.65	22.20	22.12	22.47	20.58	20.95	20.70
		1	0	20.67	20.78	20.45	18.49	18.49	18.78	20.03	20.23	20.01	18.72	18.46	18.48
		1	2	20.74	20.91	20.50	18.52	18.58	18.94	20.11	20.35	20.05	18.66	18.52	18.57
		1	5	20.68	20.78	20.49	18.58	18.66	18.82	20.01	20.22	20.04	18.60	18.46	18.48
	256QAM	3	0	20.84	20.72	20.66	18.75	18.72	18.70	20.21	20.22	20.23	18.68	18.69	18.69
		3	1	20.92	20.74	20.72	18.81	18.78	18.76	20.26	20.22	20.28	18.78	18.74	18.75
		3	2	20.86	20.76	20.68	18.81	18.77	18.74	20.26	20.23	20.31	18.69	18.70	18.72
		6	0	20.86	20.68	20.64	18.72	18.77	18.72	20.25	20.16	20.24	18.65	18.63	18.73

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
3.0	QPSK	1	0	25.69	25.53	25.54	23.59	23.58	23.70	24.99	25.04	25.20	23.60	23.70	23.67
		1	7	25.64	25.53	25.54	23.56	23.61	23.64	25.03	25.07	25.11	23.57	23.70	23.61
		1	14	25.70	25.50	25.51	23.59	23.63	23.66	25.08	25.11	25.15	23.59	23.69	23.61
		8	0	24.68	24.61	24.56	22.69	22.70	22.71	24.13	24.10	24.18	22.67	22.67	22.65
		8	4	24.70	24.60	24.59	22.73	22.70	22.73	24.14	24.11	24.19	22.68	22.70	22.71
		8	7	24.66	24.58	24.54	22.71	22.65	22.74	24.09	24.06	24.15	22.65	22.63	22.61
	16QAM	15	0	24.68	24.59	24.60	22.70	22.71	22.71	24.11	24.11	24.16	22.66	22.69	22.65
		1	0	25.03	24.66	24.58	22.72	22.55	23.15	24.07	24.43	24.29	22.63	23.10	22.71
		1	7	24.94	24.61	24.43	22.69	22.60	23.18	24.08	24.47	24.17	22.49	23.05	22.62
		1	14	25.04	24.68	24.51	22.72	22.56	23.19	24.07	24.51	24.18	22.50	23.07	22.64
		8	0	23.78	23.68	23.67	21.76	21.78	21.77	23.20	23.18	23.28	21.79	21.71	21.70
		8	4	23.78	23.69	23.69	21.79	21.79	21.79	23.24	23.23	23.24	21.76	21.72	21.72
	64QAM	8	7	23.74	23.66	23.67	21.79	21.75	21.78	23.24	23.15	23.22	21.75	21.71	21.71
		15	0	23.70	23.58	23.62	21.70	21.70	21.70	23.15	23.15	23.13	21.70	21.67	21.65
		1	0	23.62	23.85	23.87	21.90	21.95	21.86	23.34	23.19	23.43	21.90	21.80	21.94
		1	7	23.79	23.81	23.86	21.92	22.01	21.96	23.44	23.25	23.34	21.96	21.80	21.80
		1	14	23.82	23.84	23.85	21.88	22.03	21.90	23.43	23.28	23.38	21.96	21.83	21.91
		8	0	22.71	22.53	22.70	20.70	20.80	20.78	22.26	22.17	22.14	20.75	20.69	20.61
	256QAM	8	4	22.69	22.61	22.72	20.71	20.82	20.82	22.24	22.24	22.16	20.77	20.73	20.66
		8	7	22.63	22.57	22.65	20.70	20.79	20.79	22.21	22.15	22.12	20.77	20.72	20.60
		15	0	22.62	22.71	22.59	20.82	20.75	20.78	22.17	22.17	22.26	20.72	20.72	20.75
		1	0	20.52	20.45	21.09	18.56	19.18	18.58	20.65	19.92	20.16	19.18	18.55	18.57
		1	7	20.56	20.51	21.08	18.64	19.26	18.57	20.68	19.92	20.10	19.19	18.49	18.60
		1	14	20.54	20.54	21.08	18.61	19.28	18.52	20.69	19.99	20.10	19.23	18.53	18.58
	256QAM	8	0	20.71	20.66	20.62	18.77	18.75	18.66	20.22	20.07	20.28	18.78	18.65	18.72
		8	4	20.70	20.70	20.62	18.83	18.79	18.69	20.26	20.12	20.29	18.78	18.66	18.77
		8	7	20.69	20.67	20.59	18.79	18.75	18.64	20.26	20.05	20.25	18.75	18.61	18.70
		15	0	20.85	20.64	20.59	18.75	18.70	18.81	20.22	20.23	20.21	18.72	18.78	18.74

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
5.0	QPSK	1	0	25.61	25.60	25.57	23.52	23.57	23.70	25.07	24.98	25.16	23.64	23.63	23.70
		1	12	25.70	25.58	25.56	23.61	23.62	23.69	25.09	25.03	25.20	23.61	23.69	23.67
		1	24	25.65	25.62	25.50	23.59	23.57	23.70	25.13	25.01	25.09	23.66	23.68	23.69
		12	0	24.77	24.70	24.65	22.63	22.66	22.64	24.15	24.17	24.23	22.81	22.75	22.79
		12	6	24.82	24.69	24.71	22.67	22.67	22.64	24.22	24.22	24.32	22.82	22.79	22.82
	16QAM	12	11	24.81	24.66	24.67	22.65	22.62	22.61	24.16	24.18	24.24	22.79	22.75	22.80
		25	0	24.81	24.68	24.68	22.63	22.62	22.62	24.17	24.14	24.23	22.78	22.76	22.75
		1	0	24.84	24.74	25.21	23.10	22.70	22.70	24.29	24.59	24.35	22.88	23.13	22.84
		1	12	24.84	24.86	25.16	23.10	22.79	22.76	24.33	24.66	24.30	22.82	23.23	22.85
		1	24	24.85	24.87	25.12	23.09	22.76	22.74	24.37	24.60	24.33	22.89	23.21	22.87
	64QAM	12	0	23.91	23.78	23.84	21.83	21.72	21.71	23.28	23.35	23.40	21.85	21.90	21.82
		12	6	23.87	23.82	23.86	21.86	21.74	21.76	23.33	23.34	23.36	21.91	21.94	21.87
		12	11	23.87	23.79	23.84	21.82	21.71	21.74	23.34	23.31	23.35	21.85	21.89	21.87
		25	0	23.80	23.71	23.75	21.70	21.63	21.64	23.24	23.22	23.23	21.77	21.81	21.76
		1	0	23.76	23.57	24.16	21.97	21.86	21.55	23.05	23.52	23.59	21.66	22.07	22.08
	256QAM	1	12	24.01	23.63	24.15	21.97	21.98	21.51	23.13	23.56	23.53	21.72	22.10	22.08
		1	24	23.99	23.67	24.04	21.96	21.91	21.55	23.15	23.51	23.52	21.74	22.09	22.08
		12	0	22.79	22.77	22.66	20.66	20.77	20.68	22.24	22.13	22.35	20.86	20.73	20.87
		12	6	22.86	22.80	22.69	20.70	20.77	20.70	22.28	22.16	22.39	20.87	20.77	20.90
		12	11	22.87	22.79	22.63	20.62	20.74	20.69	22.30	22.13	22.36	20.84	20.72	20.89
	256QAM	25	0	22.73	22.73	22.68	20.64	20.70	20.63	22.22	22.19	22.32	20.77	20.76	20.83
		1	0	20.62	20.21	21.00	18.78	18.48	18.18	19.73	20.35	20.11	18.27	18.93	18.60
		1	12	20.63	20.39	21.05	18.85	18.54	18.27	19.87	20.43	20.07	18.50	19.03	18.62
		1	24	20.70	20.29	20.92	18.75	18.54	18.22	19.83	20.40	20.09	18.40	18.95	18.65
		12	0	20.98	20.68	20.73	18.72	18.76	18.58	20.22	20.27	20.43	18.82	18.79	18.89
12		6	20.96	20.78	20.78	18.79	18.77	18.65	20.25	20.31	20.43	18.83	18.84	18.94	
12		11	20.96	20.72	20.74	18.77	18.78	18.61	20.22	20.28	20.41	18.80	18.86	18.89	
25		0	20.91	20.73	20.69	18.70	18.68	18.63	20.21	20.23	20.38	18.75	18.79	18.84	

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
10.0	QPSK	1	0	25.67	25.56	25.50	23.60	23.59	23.64	25.07	25.03	25.20	23.70	23.70	23.66
		1	24	25.70	25.54	25.47	23.49	23.62	23.65	25.09	25.05	25.08	23.59	23.66	23.67
		1	49	25.65	25.56	25.45	23.55	23.63	23.70	25.10	25.02	25.04	23.54	23.67	23.70
		25	0	24.75	24.58	24.54	22.76	22.69	22.64	24.20	24.12	24.12	22.65	22.75	22.67
		25	12	24.75	24.69	24.55	22.76	22.73	22.66	24.16	24.10	24.14	22.74	22.75	22.64
	16QAM	25	24	24.71	24.65	24.61	22.74	22.73	22.70	24.16	24.06	24.16	22.69	22.70	22.72
		50	0	24.75	24.67	24.53	22.74	22.74	22.61	24.12	24.10	24.14	22.70	22.72	22.65
		1	0	24.75	24.54	25.11	22.81	22.68	23.07	24.00	24.55	24.27	22.74	22.74	23.15
		1	24	24.73	24.52	24.99	22.74	22.61	23.08	23.99	24.43	24.19	22.62	22.60	23.15
		1	49	24.74	24.56	25.03	22.77	22.65	23.18	24.05	24.43	24.12	22.66	22.65	23.15
	64QAM	25	0	23.84	23.62	23.59	21.87	21.68	21.66	23.18	23.15	23.25	21.76	21.75	21.66
		25	12	23.82	23.69	23.60	21.88	21.81	21.70	23.18	23.11	23.22	21.82	21.76	21.72
		25	24	23.84	23.70	23.60	21.82	21.76	21.75	23.15	23.11	23.27	21.76	21.74	21.73
		50	0	23.78	23.67	23.58	21.79	21.72	21.65	23.09	23.13	23.14	21.75	21.70	21.69
		1	0	23.49	23.87	23.77	21.86	21.95	21.72	23.29	23.23	23.32	21.89	21.94	21.80
	256QAM	1	24	24.02	23.87	23.78	21.93	21.97	21.84	23.39	23.19	23.38	21.96	21.98	21.91
		1	49	23.93	23.91	23.80	21.91	21.97	21.98	23.44	23.24	23.27	21.91	21.95	21.89
		25	0	22.76	22.62	22.66	20.88	20.72	20.70	22.20	22.22	22.20	20.76	20.80	20.75
		25	12	22.89	22.78	22.67	20.88	20.83	20.76	22.20	22.23	22.20	20.83	20.81	20.77
		25	24	22.85	22.72	22.74	20.85	20.78	20.84	22.20	22.17	22.27	20.81	20.78	20.79
	256QAM	50	0	22.78	22.67	22.62	20.79	20.81	20.68	22.17	22.14	22.10	20.73	20.75	20.71
		1	0	20.72	21.17	20.37	18.67	19.27	18.41	20.65	19.93	20.06	18.72	19.25	18.51
		1	24	20.65	21.28	20.38	18.68	19.33	18.49	20.69	19.95	20.16	18.62	19.35	18.55
		1	49	20.65	21.23	20.38	18.65	19.31	18.56	20.71	19.88	20.08	18.57	19.24	18.56
		25	0	20.93	20.58	20.58	18.85	18.71	18.70	20.19	20.18	20.26	18.77	18.79	18.71
256QAM	25	12	20.92	20.74	20.62	18.88	18.82	18.74	20.23	20.14	20.25	18.90	18.79	18.74	
	25	24	20.87	20.75	20.62	18.87	18.82	18.76	20.18	20.13	20.30	18.82	18.79	18.79	
	50	0	20.85	20.71	20.57	18.80	18.78	18.64	20.21	20.10	20.13	18.77	18.78	18.62	

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
15.0	QPSK	1	0	25.65	25.50	25.64	23.68	23.57	23.56	25.04	25.14	25.20	23.59	23.69	23.66
		1	37	25.70	25.55	25.52	23.70	23.61	23.57	25.11	25.11	25.18	23.61	23.70	23.62
		1	74	25.60	25.45	25.52	23.70	23.56	23.63	25.13	25.09	25.11	23.57	23.67	23.62
		36	0	24.64	24.58	24.52	22.68	22.63	22.56	24.11	24.03	24.18	22.62	22.59	22.61
		36	16	24.75	24.67	24.65	22.79	22.76	22.65	24.23	24.12	24.19	22.71	22.71	22.70
		36	35	24.73	24.65	24.64	22.78	22.74	22.73	24.21	24.12	24.21	22.68	22.67	22.68
		75	0	24.75	24.65	24.63	22.76	22.71	22.58	24.18	24.07	24.12	22.68	22.66	22.67
	16QAM	1	0	25.13	25.27	24.58	23.19	22.57	22.99	24.02	24.51	24.69	22.60	23.06	22.98
		1	37	25.13	25.25	24.57	23.14	22.67	23.08	24.15	24.53	24.69	22.60	23.12	23.14
		1	74	25.13	25.20	24.52	23.12	22.61	23.17	24.14	24.47	24.65	22.55	23.05	23.06
		36	0	23.76	23.62	23.54	21.67	21.66	21.64	23.14	23.11	23.17	21.66	21.66	21.62
		36	16	23.85	23.69	23.68	21.80	21.78	21.68	23.24	23.22	23.20	21.74	21.78	21.69
		36	35	23.79	23.70	23.66	21.76	21.74	21.81	23.20	23.15	23.22	21.69	21.73	21.69
		75	0	23.85	23.68	23.66	21.79	21.74	21.70	23.21	23.16	23.15	21.68	21.74	21.68
	64QAM	1	0	23.86	24.14	23.94	22.21	21.94	21.75	23.30	23.26	23.79	21.86	21.82	22.21
		1	37	23.88	24.28	23.90	22.30	22.04	21.80	23.44	23.30	23.84	21.96	21.91	22.29
		1	74	23.79	24.28	23.95	22.30	22.00	21.90	23.48	23.27	23.80	21.92	21.86	22.32
		36	0	22.86	22.70	22.66	20.73	20.73	20.68	22.21	22.17	22.22	20.72	20.73	20.67
		36	16	22.94	22.78	22.80	20.85	20.82	20.73	22.30	22.25	22.25	20.79	20.83	20.78
		36	35	22.90	22.80	22.77	20.85	20.82	20.79	22.28	22.20	22.28	20.74	20.80	20.74
		75	0	22.88	22.79	22.71	20.85	20.75	20.66	22.22	22.17	22.20	20.73	20.76	20.74
	256QAM	1	0	20.54	21.01	21.22	19.07	19.22	18.41	20.63	19.94	20.58	19.18	18.43	18.95
		1	37	20.69	21.08	21.24	19.12	19.36	18.53	20.80	19.97	20.66	19.25	18.58	19.03
		1	74	20.65	21.16	21.26	19.18	19.30	18.61	20.84	19.96	20.62	19.26	18.60	19.11
		36	0	20.86	20.72	20.72	18.79	18.76	18.66	20.22	20.12	20.24	18.76	18.67	18.69
		36	16	20.94	20.83	20.79	18.90	18.83	18.71	20.32	20.21	20.26	18.83	18.77	18.80
		36	35	20.91	20.84	20.77	18.85	18.80	18.77	20.31	20.19	20.32	18.78	18.75	18.78
		75	0	20.90	20.80	20.78	18.87	18.82	18.71	20.28	20.19	20.24	18.78	18.75	18.77

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
20.0	QPSK	1	0	25.68	25.46	25.55	23.70	23.64	23.46	25.09	25.20	25.19	23.67	23.63	23.64
		1	49	25.55	25.44	25.55	23.61	23.58	23.45	25.14	25.12	25.16	23.56	23.70	23.55
		1	99	25.70	25.55	25.45	23.67	23.60	23.58	25.19	25.09	25.17	23.59	23.66	23.68
		50	0	24.68	24.54	24.56	22.67	22.61	22.51	24.23	24.18	24.24	22.69	22.69	22.67
		50	24	24.76	24.68	24.57	22.73	22.74	22.58	24.33	24.24	24.29	22.76	22.80	22.68
		50	49	24.73	24.67	24.64	22.69	22.66	22.68	24.33	24.21	24.31	22.73	22.78	22.75
		100	0	24.76	24.68	24.58	22.71	22.71	22.54	24.33	24.21	24.24	22.75	22.75	22.67
	16QAM	1	0	25.11	25.06	24.96	23.08	23.03	23.07	24.70	24.69	24.64	23.21	23.11	23.09
		1	49	25.03	25.10	24.85	23.07	23.01	23.11	24.77	24.57	24.63	23.19	23.15	23.04
		1	99	25.07	25.13	24.94	23.11	23.01	23.20	24.75	24.57	24.60	23.20	23.20	23.06
		50	0	23.70	23.66	23.62	21.68	21.60	21.55	23.28	23.25	23.24	21.74	21.73	21.66
		50	24	23.82	23.76	23.59	21.73	21.69	21.61	23.40	23.29	23.27	21.79	21.82	21.67
		50	49	23.72	23.72	23.68	21.74	21.67	21.71	23.36	23.25	23.33	21.77	21.80	21.73
		100	0	23.78	23.73	23.63	21.71	21.72	21.58	23.36	23.26	23.27	21.78	21.80	21.68
	64QAM	1	0	23.96	24.03	24.26	22.31	21.88	21.80	23.59	23.92	23.43	22.12	22.38	21.95
		1	49	23.85	24.07	24.25	22.29	21.94	21.94	23.70	23.86	23.49	22.09	22.44	21.86
		1	99	23.98	24.20	24.27	22.37	21.92	22.10	23.71	23.89	23.50	22.14	22.44	22.01
		50	0	22.79	22.70	22.67	20.73	20.70	20.61	22.37	22.28	22.32	20.82	20.78	20.74
		50	24	22.87	22.83	22.68	20.81	20.77	20.66	22.45	22.33	22.34	20.88	20.88	20.76
		50	49	22.81	22.81	22.71	20.78	20.73	20.76	22.43	22.28	22.38	20.84	20.84	20.82
		100	0	22.85	22.76	22.62	20.74	20.74	20.59	22.38	22.27	22.31	20.81	20.81	20.74
	256QAM	1	0	20.77	20.92	20.82	18.80	18.60	18.77	20.48	20.42	20.31	18.90	18.90	18.79
		1	49	20.71	20.94	20.75	18.89	18.67	18.85	20.56	20.43	20.32	18.93	18.97	18.70
		1	99	20.82	20.96	20.85	18.94	18.72	19.00	20.56	20.43	20.32	18.99	18.97	18.81
		50	0	20.84	20.70	20.69	18.74	18.71	18.62	20.37	20.29	20.36	18.80	18.78	18.79
		50	24	20.93	20.82	20.70	18.84	18.79	18.64	20.45	20.38	20.39	18.85	18.89	18.82
		50	49	20.86	20.80	20.73	19.18	18.77	18.75	20.41	20.31	20.45	18.82	18.85	18.85
		100	0	20.90	20.79	20.66	18.80	18.78	18.59	20.37	20.34	20.32	18.80	18.82	18.78

5G NR n66

Test Engineer ID:	10646	Test Date:	5/24/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
5.0	BPSK	1	0	25.28	25.06	24.97	22.94	22.95	23.06	24.54	24.44	24.66	23.27	23.21	23.19
		1	1	25.63	25.50	25.61	23.53	23.47	23.51	25.04	24.96	25.00	23.58	23.53	23.61
		1	23	25.47	25.66	25.40	23.38	23.69	23.61	25.00	25.02	25.08	23.60	23.46	23.63
		1	24	25.26	25.13	24.99	23.02	22.93	23.09	24.54	24.45	24.52	23.21	23.08	23.17
		12	6	25.65	25.60	25.44	23.55	23.42	23.70	25.14	24.99	25.08	23.65	23.61	23.70
		25	0	25.06	24.96	24.76	23.03	22.83	22.92	24.52	24.35	24.46	23.12	23.19	23.25
	QPSK	1	0	24.50	24.88	24.54	22.42	22.30	22.59	24.03	23.88	24.00	22.12	22.87	22.92
		1	1	25.63	25.20	25.22	23.44	23.37	23.48	25.11	25.00	25.00	23.02	23.54	23.61
		1	23	25.70	25.37	25.51	23.52	23.59	23.47	25.20	24.86	25.00	22.89	23.51	23.70
		1	24	24.64	24.51	24.55	22.64	22.34	22.51	24.18	23.76	23.97	22.24	22.67	22.78
		12	6	25.46	25.48	25.49	23.51	23.44	23.57	25.19	24.93	25.05	23.66	23.64	23.66
		25	0	24.27	24.56	24.45	22.56	22.39	22.52	24.09	23.95	24.46	22.78	22.73	22.67
	16QAM	1	0	23.47	23.26	23.01	21.36	21.39	21.66	23.03	22.70	22.97	20.97	21.85	21.84
		1	1	24.23	24.28	24.41	22.33	22.41	22.89	23.96	24.05	23.93	21.92	22.85	22.83
		1	23	24.19	24.09	24.11	22.31	22.73	22.67	24.09	24.07	23.88	22.00	22.81	22.80
		1	24	23.14	23.07	22.98	21.45	21.30	21.92	23.07	22.74	23.17	21.29	21.79	21.84
		12	6	24.47	24.57	24.42	22.51	22.42	22.47	24.04	23.92	24.03	22.55	22.68	22.75
		25	0	23.40	23.35	23.45	21.48	21.36	21.53	22.99	22.95	22.94	21.67	21.73	21.72
	64QAM	1	0	23.37	23.17	23.14	21.23	20.86	21.01	22.41	22.40	22.40	20.67	20.69	21.28
		1	1	23.37	23.23	23.19	21.09	20.81	20.70	22.57	22.22	22.61	20.58	21.39	21.44
		1	23	23.29	23.25	23.08	21.03	21.08	20.82	22.58	22.35	22.46	20.52	21.15	21.23
		1	24	23.21	23.27	23.10	21.10	20.85	21.15	22.60	22.22	22.50	20.58	20.98	21.41
		12	6	22.99	22.93	22.81	20.88	20.74	20.96	22.49	22.28	22.39	21.11	21.20	21.17
		25	0	22.99	22.97	23.01	21.03	20.90	21.13	22.60	22.45	22.56	21.10	21.19	21.21
	256QAM	1	0	21.15	21.29	21.31	19.55	19.06	19.02	20.56	20.62	20.56	18.87	19.03	19.29
		1	1	21.30	21.08	21.00	19.17	19.17	19.05	20.58	20.48	20.70	18.95	19.03	19.05
		1	23	21.15	21.12	21.30	19.26	19.40	19.01	20.54	20.57	20.61	18.99	19.01	19.21
		1	24	21.02	21.37	21.05	19.06	19.04	19.07	20.76	20.53	20.66	19.07	19.08	18.83
		12	6	20.98	20.95	20.89	19.00	18.82	19.07	20.49	20.36	20.44	19.34	19.26	19.23
		25	0	20.98	20.94	20.86	18.94	18.86	19.04	20.52	20.36	20.49	19.52	19.27	19.32

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
10.0	BPSK	1	0	25.06	24.69	24.86	23.16	23.00	23.07	24.65	24.59	24.71	22.96	23.04	23.26
		1	1	25.48	25.44	25.53	23.70	23.52	23.51	24.94	25.01	25.13	23.37	23.56	23.56
		1	50	25.56	25.48	25.70	23.61	23.52	23.67	25.06	25.07	25.14	23.70	23.58	23.64
		1	51	25.19	24.92	24.91	22.97	23.01	23.21	24.54	24.64	24.49	22.87	23.17	23.02
		25	12	25.46	25.41	25.33	23.51	23.46	23.62	25.04	24.84	25.01	23.47	23.50	23.60
		50	0	25.03	24.99	24.86	23.05	22.98	23.12	24.57	24.40	24.54	22.99	23.06	23.06
	QPSK	1	0	24.56	24.45	24.33	22.56	22.69	22.65	24.21	23.95	24.01	21.58	22.67	22.77
		1	1	25.58	25.09	25.25	23.60	23.42	23.68	25.15	24.82	25.20	22.74	23.65	23.57
		1	50	25.49	25.47	25.34	23.57	23.50	23.40	24.96	24.95	25.14	22.90	23.56	23.51
		1	51	24.48	24.49	24.33	22.55	22.49	22.62	23.96	23.83	23.96	21.97	22.59	22.77
		25	12	25.47	25.37	25.38	23.63	23.41	23.57	25.02	24.95	25.07	23.48	23.52	23.58
		50	0	24.33	24.39	24.36	22.63	22.43	22.60	24.10	23.87	24.07	22.54	22.57	22.67
	16QAM	1	0	23.21	22.90	23.07	21.74	21.71	21.64	22.99	22.75	23.18	20.62	21.55	21.67
		1	1	24.30	24.03	23.86	22.87	22.63	22.86	24.30	23.67	23.93	21.62	22.58	22.90
		1	50	24.24	24.13	24.09	22.89	22.74	22.84	24.22	23.74	24.05	21.72	22.73	22.68
		1	51	23.24	22.75	22.96	21.73	21.71	21.70	23.00	22.79	22.80	20.91	21.69	21.75
		25	12	24.47	24.30	24.30	22.58	22.38	22.51	24.01	23.85	24.05	22.46	22.63	22.65
		50	0	23.45	23.44	23.36	21.54	21.37	21.56	23.11	22.91	23.07	21.52	21.60	21.75
	64QAM	1	0	23.18	22.76	22.91	21.05	20.97	20.90	22.41	22.35	22.49	20.20	20.97	21.02
		1	1	23.14	22.99	23.07	21.03	20.98	20.99	22.46	22.42	22.73	20.47	21.08	20.98
		1	50	23.39	23.49	22.90	20.93	20.86	20.98	22.17	22.16	22.33	20.37	20.97	21.49
		1	51	23.10	23.32	23.07	20.98	21.01	20.99	22.36	22.21	22.31	20.52	20.99	21.25
		25	12	23.02	23.01	23.03	21.11	20.98	21.08	22.57	22.42	22.56	21.09	21.09	21.06
		50	0	22.98	22.94	22.75	21.05	20.89	21.12	22.54	22.38	22.55	21.05	21.05	21.10
	256QAM	1	0	21.50	21.04	21.24	19.13	19.00	19.11	20.54	20.43	20.56	18.64	18.95	19.10
		1	1	21.29	21.32	21.32	18.87	19.01	18.99	20.55	20.60	20.70	18.49	19.05	18.89
		1	50	21.28	20.80	21.05	19.12	18.96	19.04	20.54	20.56	20.41	18.85	18.92	19.04
		1	51	20.97	21.02	21.03	19.01	18.95	19.12	20.49	20.52	20.51	18.96	18.89	18.99
		25	12	20.99	20.79	20.79	19.01	18.95	19.15	20.49	20.35	20.54	19.11	19.05	19.18
		50	0	20.97	20.99	20.82	19.08	19.00	19.12	20.55	20.38	20.47	19.09	19.08	19.11

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
15.0	BPSK	1	0	25.41	24.78	24.76	22.97	22.95	22.77	24.63	24.46	24.37	22.80	23.05	23.04
		1	1	25.70	25.39	25.20	23.60	23.35	23.42	25.13	24.86	24.99	23.48	23.45	23.40
		1	77	25.25	25.40	25.40	23.70	23.18	23.37	25.16	25.09	25.20	23.62	23.59	23.63
		1	78	24.84	24.83	24.68	22.97	22.90	22.99	24.74	24.53	24.22	23.01	23.07	22.87
		36	18	25.33	25.24	25.04	23.46	23.30	23.33	25.01	24.85	25.00	23.38	23.35	23.58
		75	0	24.77	24.81	24.62	23.00	22.81	22.82	24.49	24.36	24.50	22.87	22.94	22.83
	QPSK	1	0	24.43	24.44	24.22	22.43	22.52	22.24	23.89	23.93	24.02	21.94	22.35	22.40
		1	1	25.65	25.26	25.28	23.51	23.26	23.25	25.05	24.98	25.03	22.43	23.33	23.70
		1	77	25.35	25.19	25.43	23.47	23.44	23.47	25.18	24.85	25.15	23.54	23.61	23.40
		1	78	24.27	24.29	24.18	22.53	22.36	22.28	23.90	24.04	24.01	22.57	22.30	22.49
		36	18	25.27	25.32	25.07	23.36	23.37	23.30	25.03	24.83	24.93	23.33	23.34	23.39
		75	0	24.35	24.37	24.11	22.57	22.32	22.37	23.98	23.84	23.98	22.37	22.43	22.33
	16QAM	1	0	23.06	22.77	22.81	21.78	21.68	21.36	22.79	22.88	23.07	20.81	21.56	21.57
		1	1	24.53	24.05	24.19	22.85	22.89	22.46	23.73	23.66	23.99	21.70	22.54	22.63
		1	77	24.00	23.93	23.87	22.71	22.77	22.80	24.16	24.00	23.73	22.55	22.60	22.70
		1	78	22.76	23.16	23.07	21.82	21.41	21.68	22.99	22.78	22.88	21.54	21.76	21.65
		36	18	24.38	24.37	24.11	22.48	22.42	22.36	24.00	23.78	23.96	22.38	22.43	22.45
		75	0	23.36	23.32	23.19	21.55	21.41	21.33	22.99	22.85	23.00	21.49	21.40	21.41
	64QAM	1	0	23.12	23.24	22.99	20.93	20.87	20.85	22.51	22.45	22.55	20.17	20.92	21.01
		1	1	23.08	23.11	22.96	20.96	20.73	20.58	22.52	22.52	22.35	20.30	20.64	20.58
		1	77	23.21	23.01	22.94	20.81	20.69	20.84	22.41	22.48	22.30	20.99	21.15	21.11
		1	78	23.31	23.45	22.87	20.83	20.83	21.01	22.62	22.40	22.60	20.92	21.54	20.97
		36	18	22.84	22.75	22.55	20.84	20.80	20.75	22.48	22.35	22.41	21.17	20.86	20.88
		75	0	22.95	22.85	22.68	21.03	20.88	20.81	22.55	22.36	22.53	21.09	20.94	20.94
	256QAM	1	0	21.22	21.06	20.97	19.13	18.70	18.80	20.53	20.58	20.61	18.67	18.45	18.95
		1	1	21.18	20.91	20.92	18.92	18.97	18.77	20.61	20.41	20.63	18.43	18.31	18.59
		1	77	20.98	21.07	20.90	19.00	18.79	19.10	20.80	20.48	20.43	19.27	19.00	19.08
		1	78	21.15	20.78	21.08	18.86	18.65	18.93	20.71	20.57	20.41	18.71	18.62	18.83
		36	18	20.86	20.67	20.62	17.97	18.77	18.76	20.56	20.35	20.39	18.89	18.75	18.87
		75	0	20.88	20.76	20.68	18.96	18.75	18.86	20.48	20.41	20.41	18.95	18.87	18.89

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
20.0	BPSK	1	0	25.21	25.07	25.10	23.18	23.04	22.74	24.48	24.38	24.39	22.88	22.90	23.28
		1	1	25.70	25.40	23.38	23.69	23.57	23.41	25.02	25.03	24.82	23.36	23.58	23.65
		1	104	25.33	25.53	25.56	23.65	23.39	23.47	25.20	24.71	24.96	23.69	23.69	23.47
		1	105	25.20	25.16	24.91	22.97	22.82	23.08	24.40	24.41	24.38	23.25	23.13	23.16
		50	25	25.50	25.47	25.33	23.47	23.41	23.42	25.01	24.87	24.91	23.58	23.53	23.59
		100	0	25.03	24.97	24.93	22.97	22.85	22.86	24.46	24.31	24.35	23.05	23.05	23.10
	QPSK	1	0	24.54	24.40	24.41	22.38	22.63	22.36	23.84	23.83	23.90	21.72	22.74	22.63
		1	1	25.60	25.50	25.52	23.63	23.70	23.21	24.92	24.94	24.93	22.67	23.63	23.54
		1	104	25.56	25.59	25.38	23.45	23.35	23.49	24.98	24.90	23.71	23.70	23.63	23.63
		1	105	24.52	24.49	24.40	22.52	22.45	22.47	24.07	23.80	23.83	22.79	22.65	22.47
		50	25	25.53	25.56	25.25	23.44	23.45	23.38	24.94	24.75	24.95	23.61	23.55	23.55
		100	0	24.53	24.53	24.31	22.56	22.39	22.32	23.98	23.78	23.94	22.62	22.55	22.63
	16QAM	1	0	23.42	23.26	23.34	21.82	21.78	21.75	22.90	22.84	22.84	20.75	21.73	21.78
		1	1	24.52	24.35	24.51	22.81	22.86	22.53	23.70	23.80	23.98	21.60	22.74	22.26
		1	104	24.54	24.54	24.33	22.80	22.58	22.68	24.17	23.54	23.56	22.71	22.71	22.88
		1	105	23.62	23.66	23.35	21.88	21.49	21.71	23.05	22.69	23.11	21.93	21.74	21.46
		50	25	24.49	24.47	24.25	22.46	22.34	22.35	23.92	23.72	23.88	22.58	22.60	22.63
		100	0	23.58	23.56	23.34	21.46	21.36	21.35	22.89	22.77	22.90	21.58	21.53	21.58
	64QAM	1	0	23.22	23.28	22.71	21.11	20.97	20.70	22.28	22.29	22.32	20.11	21.07	21.25
		1	1	23.35	23.05	23.28	21.09	21.02	20.91	22.19	22.44	22.17	20.45	20.97	20.59
		1	104	23.06	23.13	22.79	21.32	20.78	20.83	22.25	22.54	21.98	21.22	21.15	20.97
		1	105	23.01	23.38	22.93	20.97	20.97	21.01	22.32	22.49	22.54	21.06	21.14	21.20
		50	25	22.98	23.01	22.77	20.98	20.91	20.83	22.43	22.20	22.39	21.07	20.94	21.03
		100	0	23.05	22.98	22.91	21.04	20.88	20.89	22.50	22.34	22.35	20.99	21.00	21.06
	256QAM	1	0	21.19	21.13	21.17	19.16	19.08	18.86	20.76	20.49	20.47	18.62	18.60	19.06
		1	1	21.08	21.11	21.09	19.00	18.93	18.71	20.69	20.38	20.57	18.68	18.83	18.93
		1	104	21.03	21.08	21.08	18.96	18.96	18.87	20.51	20.48	20.38	18.87	18.80	18.90
		1	105	20.99	21.08	20.84	18.84	18.83	19.04	20.61	20.40	20.58	18.80	19.00	18.90
		50	25	21.05	20.98	20.86	19.00	18.90	18.84	20.29	20.29	20.33	19.04	19.04	19.00
		100	0	20.97	20.96	20.91	19.03	18.84	18.82	20.48	20.32	20.31	19.07	19.09	19.12

OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				345000	349000	353000	345000	349000	353000	345000	349000	353000	345000	349000	353000
30.0	BPSK	1	0	23.01	22.67	23.03	21.13	20.95	20.86	22.90	22.69	22.27	21.21	21.06	21.10
		1	1	23.53	23.26	23.58	21.52	21.63	21.29	23.03	23.04	22.85	21.52	21.59	21.55
		1	158	23.29	23.46	23.30	21.58	21.45	21.56	22.99	22.93	23.07	21.49	21.41	21.61
		1	159	22.90	22.91	22.91	20.96	20.97	21.08	22.79	22.60	22.64	21.09	21.09	21.10
		80	40	23.16	23.18	23.20	21.31	21.22	21.23	22.91	22.83	22.88	21.41	21.34	21.38
		160	0	22.69	22.71	22.72	20.87	20.74	20.76	22.40	22.37	22.37	20.97	20.87	20.91
	QPSK	1	0	22.61	22.17	22.47	20.57	20.37	20.32	22.03	22.07	22.02	20.58	20.40	20.24
		1	1	23.43	23.16	23.30	21.37	21.37	21.30	23.20	23.01	23.17	21.59	21.70	21.64
		1	158	23.51	23.70	23.31	21.40	21.49	21.70	23.06	23.03	23.12	21.54	21.53	21.52
		1	159	22.44	22.41	22.19	20.43	20.56	20.34	22.13	22.00	22.23	20.56	20.44	20.37
		80	40	23.24	23.23	23.25	21.33	21.24	21.32	22.93	22.71	22.97	21.43	21.33	21.46
		160	0	22.25	22.28	22.22	20.33	20.30	20.27	21.91	21.88	21.94	20.38	20.33	20.41
	16QAM	1	0	21.84	20.87	21.44	19.85	19.23	19.24	20.97	21.04	20.90	19.54	19.57	19.62
		1	1	22.38	22.06	22.12	20.58	20.04	20.25	21.80	22.03	21.83	20.69	20.69	20.57
		1	158	22.35	22.17	22.05	20.65	20.33	20.37	21.76	22.01	22.11	20.46	20.75	20.50
		1	159	21.26	21.28	21.06	19.70	19.17	19.71	21.12	21.01	21.18	19.45	19.86	19.71
		80	40	22.24	22.21	22.23	20.24	21.18	20.27	22.03	21.75	21.89	20.37	20.34	20.35
		160	0	21.24	21.22	21.27	19.28	19.23	19.29	21.02	20.85	20.86	19.43	19.37	19.44
	64QAM	1	0	21.17	20.63	21.06	18.68	18.95	18.34	20.37	20.39	20.37	19.20	19.30	19.10
		1	1	20.97	20.84	21.16	18.92	19.11	19.16	20.64	20.36	20.32	19.14	19.03	19.29
		1	158	20.89	20.99	20.79	18.88	18.80	19.30	20.10	20.23	20.46	18.95	19.12	18.96
		1	159	21.19	21.04	20.72	18.77	18.96	18.83	20.78	20.37	20.56	19.05	19.00	19.06
		80	40	20.74	20.75	20.72	18.81	18.75	18.84	20.47	20.32	20.37	18.95	18.90	18.85
		160	0	20.75	20.78	19.99	18.88	18.75	18.84	20.42	20.39	20.39	18.91	18.91	18.91
	256QAM	1	0	19.16	18.58	18.98	16.81	17.02	16.91	18.55	18.47	18.17	17.27	17.37	17.10
		1	1	19.10	18.92	19.03	17.06	16.89	16.86	18.85	18.47	18.53	17.26	17.13	17.23
		1	158	19.11	19.46	19.19	16.79	16.96	16.99	18.61	18.52	18.41	16.82	17.32	17.20
		1	159	19.13	18.91	18.94	16.86	16.82	16.98	18.46	18.66	18.46	17.41	17.01	17.04
		80	40	18.70	18.60	18.74	16.82	16.81	16.80	18.37	18.31	18.34	16.89	16.83	16.87
		160	0	18.81	18.74	18.73	16.91	16.73	16.77	18.42	18.39	18.46	16.94	16.91	16.91

OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				346000	349000	352000	346000	349000	352000	346000	349000	352000	346000	349000	352000
40.0	BPSK	1	0	23.13	22.80	22.97	21.02	20.78	20.96	22.43	22.63	22.57	21.17	21.22	20.95
		1	1	23.70	23.50	23.45	21.34	21.29	21.64	23.07	23.11	23.05	21.54	21.51	21.70
		1	214	23.64	23.18	23.55	21.15	21.18	21.70	22.83	23.17	23.20	21.38	21.51	21.44
		1	215	22.97	22.98	23.27	20.60	20.68	20.96	22.49	22.47	22.68	20.83	20.94	21.31
		108	54	23.39	23.43	23.48	21.33	21.27	21.22	22.90	22.94	22.94	21.33	21.29	21.36
		216	0	23.02	22.96	23.01	20.83	20.77	20.75	22.49	22.48	22.48	20.88	20.79	20.88
	QPSK	1	0	22.70	22.51	22.59	20.54	20.38	20.49	21.94	22.15	22.05	20.39	20.47	20.35
		1	1	23.58	23.43	23.68	21.15	21.12	21.20	23.01	23.03	23.15	21.60	21.39	21.38
		1	214	23.36	23.32	23.55	21.51	21.26	21.29	22.86	23.10	23.16	21.43	21.19	21.33
		1	215	22.36	22.37	22.54	20.29	20.33	20.61	21.98	21.97	22.13	20.15	20.26	20.47
		108	54	23.43	23.66	23.64	21.23	21.28	21.29	22.93	22.90	23.00	21.39	21.30	21.33
		216	0	22.50	22.50	22.56	20.29	20.31	20.31	21.98	22.04	22.02	20.40	20.37	20.38
	16QAM	1	0	21.58	21.08	21.26	19.11	19.21	19.19	20.83	21.15	21.09	19.49	19.32	19.53
		1	1	22.26	22.27	22.21	20.44	20.24	20.11	22.24	22.29	22.20	20.49	20.18	20.58
		1	214	22.30	22.18	22.21	20.23	20.17	20.34	21.87	21.70	22.29	20.08	20.28	20.46
		1	215	21.23	21.20	21.45	19.05	19.02	19.32	20.78	21.21	21.17	19.14	19.22	19.31
		108	54	22.39	22.53	22.56	20.31	20.29	20.25	22.05	21.90	21.99	20.38	20.28	20.35
		216	0	21.50	21.51	21.57	19.31	19.27	19.29	20.99	21.00	21.02	19.46	19.37	19.36
	64QAM	1	0	21.23	20.83	20.84	18.72	19.02	18.73	20.70	20.32	20.43	19.23	18.47	18.71
		1	1	21.09	20.90	21.21	19.19	18.92	18.81	20.51	20.77	20.20	19.26	19.06	18.64
		1	214	21.13	20.90	21.16	18.99	18.82	19.38	20.33	20.55	20.26	18.87	19.18	18.87
		1	215	21.22	20.95	20.95	18.40	18.71	18.94	20.25	20.37	20.72	19.04	18.52	18.84
		108	54	20.89	20.98	21.02	18.82	18.81	18.77	20.50	20.39	20.45	18.86	18.70	17.88
		216	0	20.94	20.98	21.08	18.85	18.76	18.85	20.55	20.48	20.47	18.91	18.72	18.87
	256QAM	1	0	19.44	19.40	19.25	17.17	19.21	17.13	18.68	18.74	18.69	16.89	16.98	16.83
		1	1	19.28	19.13	18.86	17.02	16.95	16.66	18.74	18.84	18.37	17.31	16.97	17.43
		1	214	19.45	19.69	19.19	16.89	16.98	17.11	18.76	18.75	18.66	16.93	17.28	17.12
		1	215	19.49	19.46	19.36	16.80	17.02	17.35	18.54	18.49	18.73	17.01	16.92	16.52
		108	54	18.78	18.95	18.94	16.89	16.72	16.75	18.47	18.42	18.45	16.87	16.73	16.83
		216	0	19.03	19.01	19.08	16.89	16.78	16.88	18.55	18.51	18.49	16.92	16.92	16.92

8.14. LTE BAND 71 AND 5G NR n71

LTE BAND 71

Test Engineer ID:	10646	Test Date:	3/15/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133147 665.5 MHz	133297 680.5 MHz	133447 695.5 MHz	133147 665.5 MHz	133297 680.5 MHz	133447 695.5 MHz
5.0	QPSK	1	0	25.65	25.68	25.66	24.61	24.61	24.57
		1	12	25.68	25.59	25.48	24.67	24.47	24.42
		1	24	25.70	25.59	25.46	24.70	24.47	24.37
		12	0	24.78	24.68	24.73	23.63	23.59	23.61
		12	6	24.79	24.73	24.68	23.66	23.58	23.60
		12	11	24.75	24.69	24.57	23.61	23.55	23.47
		25	0	24.80	24.71	24.66	23.71	23.59	23.55
	16QAM	1	0	24.86	25.22	24.87	23.80	24.07	23.75
		1	12	24.91	25.19	24.75	23.77	24.03	23.58
		1	24	24.96	25.17	24.66	23.83	24.02	23.57
		12	0	23.91	23.82	23.74	22.78	22.76	22.66
		12	6	23.88	23.88	23.77	22.81	22.77	22.66
		12	11	23.82	23.82	23.71	22.76	22.68	22.56
		25	0	23.80	23.83	23.60	22.74	22.65	22.51
	64QAM	1	0	23.66	24.15	24.05	22.59	22.98	22.91
		1	12	23.68	24.04	23.94	22.68	22.97	22.76
		1	24	23.71	24.06	23.92	22.66	22.92	22.75
		12	0	22.84	22.72	22.79	21.76	21.57	21.72
		12	6	22.82	22.76	22.77	21.74	21.54	21.67
		12	11	22.78	22.69	22.73	21.71	21.55	21.60
		25	0	22.83	22.74	22.69	21.69	21.60	21.59
	256QAM	1	0	20.41	20.91	20.64	19.28	19.83	19.60
		1	12	20.35	20.83	20.58	19.31	19.70	19.42
		1	24	20.31	20.87	20.46	19.27	19.80	19.39
		12	0	20.76	20.79	20.82	19.71	19.69	19.72
12		6	20.81	20.85	20.79	19.76	19.72	19.70	
12		11	20.74	20.78	20.73	19.68	19.70	19.58	
25		0	20.82	20.76	20.71	19.74	19.64	19.58	

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133172 668.0 MHz	133322 683.0 MHz	133422 693.0 MHz	133172 668.0 MHz	133322 683.0 MHz	133422 693.0 MHz
10.0	QPSK	1	0	25.70	25.67	25.63	24.69	24.63	24.70
		1	24	25.64	25.64	25.53	24.61	24.51	24.66
		1	49	25.69	25.62	25.50	24.62	24.51	24.59
		25	0	24.74	24.67	24.62	23.74	23.67	23.68
		25	12	24.82	24.67	24.68	23.82	23.64	23.69
		25	24	24.75	24.66	24.65	23.78	23.68	23.69
		50	0	24.79	24.69	24.63	23.81	23.63	23.65
	16QAM	1	0	24.61	25.12	24.72	23.84	23.68	24.13
		1	24	24.62	25.07	24.65	23.78	23.54	24.04
		1	49	24.61	25.10	24.55	23.73	23.58	23.98
		25	0	23.79	23.71	23.73	22.81	22.67	22.72
		25	12	23.80	23.66	23.71	22.91	22.66	22.73
		25	24	23.79	23.74	23.70	22.87	22.69	22.68
		50	0	23.74	23.68	23.66	22.82	22.59	22.69
	64QAM	1	0	23.98	23.86	23.91	22.99	22.93	22.84
		1	24	23.98	23.87	23.80	22.95	22.85	22.90
		1	49	24.03	23.92	23.72	22.83	22.95	22.83
		25	0	22.80	22.79	22.75	21.84	21.68	21.76
		25	12	22.85	22.78	22.72	21.89	21.69	21.74
		25	24	22.84	22.80	22.74	21.83	21.71	21.82
		50	0	22.84	22.70	22.66	21.87	21.66	21.70
	256QAM	1	0	21.29	20.50	20.66	19.75	20.25	19.44
		1	24	21.27	20.49	20.65	19.70	20.27	19.51
		1	49	21.27	20.57	20.64	19.89	20.25	19.46
		25	0	20.83	20.75	20.79	19.94	19.76	19.76
25		12	20.86	20.72	20.76	19.96	19.72	19.73	
25		24	20.79	20.75	20.72	19.84	19.76	19.73	
50		0	20.86	20.64	20.66	19.86	19.71	19.65	

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133197	133297	133397	133197	133297	133397
15.0	QPSK	1	0	25.63	25.70	25.56	24.70	24.51	24.50
		1	37	25.64	25.58	25.52	24.59	24.45	24.43
		1	74	25.57	25.57	25.39	24.60	24.41	24.35
		36	0	24.64	24.60	24.58	23.61	23.57	23.52
		36	16	24.63	24.57	24.51	23.58	23.61	23.53
		36	35	24.64	24.56	24.52	23.60	23.52	23.51
		75	0	24.65	24.61	24.56	23.63	23.56	23.48
	16QAM	1	0	24.52	25.05	25.11	24.06	23.55	23.96
		1	37	24.63	24.98	25.05	24.37	23.48	23.99
		1	74	24.59	24.95	24.96	24.09	23.45	23.84
		36	0	23.68	23.65	23.55	22.60	22.58	22.58
		36	16	23.61	23.69	23.51	22.57	22.65	22.57
		36	35	23.58	23.61	23.51	22.59	22.55	22.57
		75	0	23.69	23.70	23.55	22.68	22.60	22.52
	64QAM	1	0	23.84	23.81	24.16	23.16	22.89	22.71
		1	37	23.91	23.77	24.17	23.19	22.83	22.71
		1	74	23.87	23.75	24.08	23.21	22.85	22.60
		36	0	22.72	22.75	22.68	21.69	21.64	21.65
		36	16	22.66	22.70	22.63	21.65	21.68	21.59
		36	35	22.69	22.68	22.62	21.67	21.61	21.59
		75	0	22.69	22.69	22.60	21.73	21.62	21.57
	256QAM	1	0	21.14	20.43	20.91	19.95	20.12	19.33
		1	37	21.25	20.43	20.94	19.98	20.10	19.37
		1	74	21.25	20.44	20.88	20.02	20.18	19.35
		36	0	20.75	20.64	20.64	19.69	19.63	19.61
		36	16	20.69	20.60	20.59	19.66	19.68	19.58
		36	35	20.70	20.60	20.59	19.70	19.60	19.57
		75	0	20.73	20.64	20.58	19.72	19.65	19.53

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133222	133322	133372	133222	133322	133372
20.0	QPSK	1	0	25.64	25.60	25.60	24.70	24.62	24.62
		1	49	25.70	25.57	25.54	24.64	24.56	24.58
		1	99	25.56	25.58	25.53	24.62	24.54	24.50
		50	0	24.76	24.71	24.66	23.78	23.66	23.65
		50	24	24.78	24.67	24.68	23.78	23.63	23.60
		50	49	24.76	24.67	24.65	23.69	23.63	23.65
		100	0	24.79	24.77	24.66	23.80	23.59	23.64
	16QAM	1	0	25.20	25.10	25.06	24.14	24.20	24.10
		1	49	25.23	25.13	25.02	24.12	24.16	24.00
		1	99	25.18	25.02	24.93	24.05	24.10	23.91
		50	0	23.77	23.82	23.67	22.72	22.70	22.69
		50	24	23.77	23.73	23.61	22.74	22.65	22.63
		50	49	23.75	23.68	23.66	22.67	22.65	22.67
		100	0	23.79	23.77	23.67	22.77	22.63	22.59
	64QAM	1	0	24.07	24.38	23.89	22.95	23.06	23.28
		1	49	24.09	24.37	23.86	22.96	22.94	23.34
		1	99	24.06	24.35	23.88	22.96	23.04	23.22
		50	0	22.85	22.82	22.73	21.79	21.76	21.69
		50	24	22.85	22.77	22.72	21.81	21.73	21.65
		50	49	22.85	22.72	22.70	21.75	21.70	21.65
		100	0	22.84	22.79	22.71	21.82	21.65	21.65
	256QAM	1	0	20.87	20.81	20.62	19.66	19.88	19.74
		1	49	20.96	20.89	20.57	19.69	19.82	19.77
		1	99	20.92	20.91	20.61	19.69	19.96	19.74
		50	0	20.84	20.80	20.73	19.81	19.71	19.72
		50	24	20.85	20.70	20.73	19.83	19.70	19.68
		50	49	20.84	20.72	20.73	19.79	19.69	19.67
		100	0	20.84	20.80	20.74	19.88	19.67	19.64

5G NR n71

Test Engineer ID:	19467	Test Date:	3/5/2021
-------------------	-------	------------	----------

OUTPUT POWER FOR 5G NR n71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133100 665.5 MHz	136100 680.5 MHz	139100 695.5 MHz	133100 665.5 MHz	136100 680.5 MHz	139100 695.5 MHz
5.0	BPSK	1	0	25.26	25.11	24.55	24.16	23.97	23.90
		1	1	25.69	25.28	25.19	24.62	24.59	24.35
		1	23	25.29	25.57	25.35	24.61	24.32	24.17
		1	24	25.23	25.03	24.84	24.02	23.87	23.70
		12	6	25.67	25.34	25.24	24.51	24.32	24.17
		25	0	25.10	24.98	24.70	22.04	23.75	23.67
	QPSK	1	0	24.13	24.46	24.07	23.58	23.56	23.35
		1	1	25.57	25.57	25.28	24.70	24.56	24.33
		1	23	25.70	25.59	24.94	24.48	24.31	24.11
		1	24	24.50	24.63	24.22	23.46	23.48	23.13
		12	6	25.50	25.42	25.35	24.52	24.42	24.28
		25	0	24.54	24.46	24.15	23.45	23.35	23.20
	16QAM	1	0	23.92	24.03	23.97	22.42	22.00	21.88
		1	1	25.02	24.82	24.32	23.32	23.03	22.86
		1	23	24.38	24.45	24.16	23.20	22.88	22.48
		1	24	23.71	23.61	23.31	22.13	21.64	21.79
		12	6	24.38	24.40	24.10	23.49	23.28	23.15
		25	0	23.45	23.47	23.17	22.44	22.23	22.10
	64QAM	1	0	23.51	23.51	22.72	21.37	22.22	21.95
		1	1	23.07	23.37	22.88	21.38	22.01	22.09
		1	23	23.55	22.58	22.78	22.00	21.94	21.77
		1	24	23.17	23.02	22.64	22.00	22.04	21.77
		12	6	23.21	22.81	22.77	22.01	21.80	21.54
		25	0	23.12	23.13	22.77	21.91	21.81	21.53
	256QAM	1	0	21.23	20.72	20.73	20.35	20.26	20.09
		1	1	20.97	20.71	20.62	20.34	20.26	20.08
		1	23	20.66	20.89	20.56	20.15	19.92	19.84
		1	24	21.17	20.76	20.55	20.22	19.94	19.79
12		6	21.06	21.06	20.72	20.02	19.78	19.70	
25		0	21.07	20.97	20.58	19.92	19.81	19.79	

OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				133600 668.0 MHz	136600 683.0 MHz	138600 693.0 MHz	133600 668.0 MHz	136600 683.0 MHz	138600 693.0 MHz
10.0	BPSK	1	0	24.93	24.97	25.11	23.86	23.07	23.66
		1	1	25.36	25.32	25.37	24.33	24.57	24.17
		1	50	25.21	25.38	25.10	24.15	24.55	23.87
		1	51	25.05	24.69	24.56	23.66	23.86	23.30
		25	12	25.40	25.44	25.21	24.12	24.46	23.87
		50	0	24.92	25.08	24.62	21.74	23.89	23.37
	QPSK	1	0	24.94	24.28	24.16	23.35	23.73	23.59
		1	1	25.43	25.65	25.42	24.30	24.44	24.00
		1	50	25.25	25.70	24.78	24.15	24.70	23.88
		1	51	24.70	24.40	23.81	23.19	23.38	22.91
		25	12	25.60	25.45	25.30	24.16	24.48	23.83
		50	0	24.59	24.54	24.27	23.17	23.44	22.89
	16QAM	1	0	23.71	23.68	23.39	22.63	22.69	22.07
		1	1	25.05	24.41	24.47	23.66	23.62	22.80
		1	50	24.56	24.49	24.06	23.11	23.51	22.73
		1	51	23.57	23.37	23.00	22.43	22.47	21.81
		25	12	24.68	24.56	24.19	23.10	23.48	22.96
		50	0	23.68	23.52	23.10	22.17	22.44	21.94
	64QAM	1	0	23.08	23.09	23.16	22.12	22.04	21.53
		1	1	23.18	23.08	23.29	22.01	21.90	21.65
		1	50	23.11	23.20	23.22	21.91	22.03	21.49
		1	51	22.96	22.90	22.41	22.09	22.82	21.40
		25	12	23.11	22.97	22.76	21.61	21.92	21.39
		50	0	23.04	22.96	22.67	21.66	21.87	21.28
	256QAM	1	0	20.95	20.75	19.88	20.07	19.95	20.00
		1	1	21.07	20.63	20.78	20.02	19.77	19.79
		1	50	20.65	20.92	20.25	19.94	19.89	19.46
		1	51	20.93	20.62	20.80	19.80	19.77	19.81
25		12	21.24	21.13	20.68	19.71	19.91	19.36	
50		0	21.03	21.00	20.79	19.75	19.96	19.47	

OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				134100	136100	138100	134100	136100	138100
15.0	BPSK	1	0	25.07	24.95	24.84	23.46	23.40	23.36
		1	1	25.70	25.30	25.15	24.36	24.17	24.09
		1	77	25.44	25.50	24.77	24.59	24.39	24.37
		1	78	24.75	25.36	24.42	24.66	24.43	24.40
		36	18	21.85	25.36	25.13	24.63	24.46	24.29
		75	0	21.02	24.79	24.65	24.04	23.91	23.75
	QPSK	1	0	24.86	24.56	24.42	23.08	22.93	22.86
		1	1	25.64	25.35	25.23	24.44	24.28	24.08
		1	77	25.48	25.06	24.84	24.70	24.49	24.39
		1	78	24.77	24.43	24.05	24.66	24.47	24.42
		36	18	25.38	25.36	25.13	24.57	24.41	24.35
		75	0	24.34	24.33	24.16	23.59	23.46	23.37
	16QAM	1	0	23.46	23.63	23.11	22.14	21.92	21.75
		1	1	23.92	24.31	24.15	23.35	23.21	23.05
		1	77	24.18	23.98	24.03	23.66	23.47	23.32
		1	78	23.15	23.18	23.07	23.64	23.50	23.45
		36	18	24.52	24.35	24.21	23.58	23.73	23.22
		75	0	23.44	23.36	23.17	22.62	22.53	22.27
	64QAM	1	0	23.20	23.06	22.95	21.67	21.24	21.34
		1	1	23.21	22.43	22.90	21.84	21.67	21.64
		1	77	22.72	22.94	22.19	22.10	21.96	21.83
		1	78	22.49	22.85	22.29	22.19	22.10	21.85
		36	18	22.89	22.84	22.62	22.02	21.90	21.83
		75	0	22.95	22.84	22.69	21.99	21.81	21.89
	256QAM	1	0	21.06	20.36	20.75	19.31	19.32	19.05
		1	1	20.68	20.74	20.77	19.77	19.60	19.38
		1	77	20.88	20.80	19.89	20.03	19.87	19.65
		1	78	20.46	20.39	19.94	20.05	20.05	19.77
		36	18	20.88	20.96	20.24	20.17	20.01	19.87
		75	0	20.96	20.86	20.33	19.99	19.85	19.83

OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				134600	136600	137600	134600	136600	137600
20.0	BPSK	1	0	24.63	25.22	24.67	23.63	24.04	23.39
		1	1	25.62	25.70	25.09	24.31	24.51	24.08
		1	104	24.96	25.50	24.81	24.05	24.50	24.15
		1	105	24.56	24.96	24.60	23.36	23.97	24.18
		50	25	25.24	25.38	24.90	24.32	24.36	24.26
		100	0	23.92	24.94	24.63	22.29	23.88	22.05
	QPSK	1	0	24.12	24.64	24.31	23.12	23.57	22.90
		1	1	25.28	25.65	24.88	24.32	24.70	24.12
		1	104	25.25	25.36	24.86	24.01	24.48	24.25
		1	105	24.38	24.44	23.77	22.94	23.42	24.24
		50	25	25.34	25.38	24.99	24.30	24.42	24.28
		100	0	24.30	24.39	24.09	23.42	23.42	23.16
	16QAM	1	0	23.74	23.88	23.40	22.26	22.74	21.97
		1	1	24.72	24.87	24.20	23.58	23.57	23.13
		1	104	24.66	24.58	23.98	23.26	23.51	23.35
		1	105	23.34	23.42	22.57	22.14	22.38	23.22
		50	25	24.32	24.37	23.96	23.37	23.43	23.24
		100	0	23.21	23.40	22.91	22.40	22.40	22.13
	64QAM	1	0	22.33	23.04	22.28	21.32	22.18	21.36
		1	1	22.74	22.10	22.25	21.80	22.09	21.60
		1	104	22.33	22.97	22.62	21.70	21.88	21.67
		1	105	22.15	22.66	21.91	21.34	21.89	21.70
		50	25	22.86	22.88	22.38	21.83	21.91	21.77
		100	0	22.69	22.86	22.49	21.83	21.85	21.64
	256QAM	1	0	20.19	20.52	19.92	19.55	19.77	19.17
		1	1	20.80	20.84	19.96	19.90	19.87	19.32
		1	104	19.88	20.73	20.26	19.59	19.73	19.50
		1	105	19.85	20.63	19.87	19.44	19.97	19.56
		50	25	20.72	20.90	20.57	19.81	19.99	19.73
		100	0	20.71	20.91	20.37	19.85	19.95	19.69

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

Test Engineer ID:	10646	Test Date:	5/26/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				630666	633332	635998	630666	633332	635998	630666	633332	635998	630666	633332	635998
20.0	BPSK	1	0	24.18	23.98	23.98	20.83	20.86	20.61	23.51	23.38	23.29	19.90	19.88	20.02
		1	1	27.70	27.48	27.43	24.20	24.10	27.08	26.94	26.73	23.39	23.43	23.42	
		1	49	27.58	27.44	27.14	24.07	24.14	24.01	26.83	26.70	26.68	23.38	23.40	18.86
		1	50	23.93	23.98	23.68	20.67	20.68	20.43	23.22	23.27	23.14	19.83	19.86	19.78
		25	12	27.45	27.34	27.33	24.10	23.98	23.94	27.00	26.79	26.68	23.23	23.22	18.87
	QPSK	50	0	26.91	26.91	26.75	23.72	23.60	23.40	26.40	26.18	26.25	22.70	22.83	22.80
		1	0	24.23	23.93	23.99	20.76	20.81	20.62	23.68	23.39	23.38	19.93	19.94	20.04
		1	1	27.51	27.54	27.43	24.13	24.19	24.20	27.20	26.97	26.93	23.44	23.50	23.70
		1	49	27.59	27.36	27.15	24.07	24.15	24.04	26.97	26.92	26.79	23.31	23.40	23.45
		1	50	23.88	23.98	23.73	20.63	20.67	20.52	23.49	23.26	23.19	19.93	19.83	19.80
		25	12	27.41	27.34	27.36	24.10	24.01	23.95	26.98	26.73	26.62	23.20	23.30	23.27
		50	0	26.51	26.35	26.37	23.07	23.20	22.97	25.91	25.72	25.83	22.25	22.28	22.22
		1	0	24.08	24.37	23.93	20.71	20.57	20.80	24.05	23.71	23.67	19.86	19.74	20.00
		1	1	26.68	26.68	26.44	23.21	23.20	23.33	26.51	26.02	26.13	22.31	22.49	22.18
		1	49	26.64	26.32	26.20	23.01	23.14	23.30	26.35	26.01	26.03	22.29	22.46	22.30
	16QAM	1	50	23.79	24.10	23.75	20.54	20.57	20.65	23.70	23.68	23.44	19.80	19.93	19.61
		25	12	26.33	26.27	26.28	23.09	23.04	22.94	25.94	25.72	25.61	22.18	22.24	22.28
		50	0	25.28	25.38	25.21	22.12	22.12	21.94	25.03	24.73	24.70	21.24	21.29	21.30
		1	0	23.91	23.89	23.87	20.67	20.43	20.46	23.90	23.51	23.34	19.83	19.54	19.64
		1	1	25.03	25.02	24.95	21.66	21.65	21.46	24.67	24.37	24.42	20.85	20.68	20.57
		1	49	25.13	24.81	24.73	21.60	21.64	21.50	24.51	24.59	24.16	20.88	20.48	20.80
		1	50	23.65	23.91	23.74	20.45	20.40	20.43	23.68	23.50	23.32	19.78	19.54	19.47
		25	12	24.93	24.84	24.83	21.55	21.57	21.37	24.41	24.27	24.18	20.73	20.68	20.84
		50	0	24.83	24.81	24.65	21.46	21.56	21.47	24.49	24.25	24.29	20.74	20.69	20.80
		64QAM	1	0	22.86	22.83	22.82	19.75	19.42	19.24	22.67	22.14	22.19	18.82	18.58
	1		1	23.02	22.90	22.79	19.62	19.53	19.44	22.43	22.39	22.21	18.91	18.57	18.93
	1		49	23.22	22.68	22.81	19.60	19.52	19.39	22.38	22.19	22.03	18.90	18.70	18.23
	1		50	22.75	22.65	22.71	19.56	19.40	19.13	22.22	22.56	21.98	18.70	18.66	18.57
	25		12	22.93	22.84	22.85	19.59	19.70	19.44	22.47	22.33	22.09	18.75	18.85	18.91
	50		0	22.93	22.83	22.77	19.56	19.57	19.47	22.51	22.29	22.26	18.76	18.85	18.72

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631000	633332	635666	631000	633332	635666	631000	633332	635666	631000	633332	635666
30.0	BPSK	1	0	24.29	24.02	24.08	20.62	20.67	20.49	23.55	23.16	23.26	20.04	19.97	20.08
		1	1	27.70	27.51	27.49	24.20	24.14	23.94	27.14	27.01	26.93	23.60	23.63	23.54
		1	76	27.53	27.48	27.44	24.18	24.12	24.03	27.02	27.00	26.68	23.69	23.62	19.03
		1	77	24.05	24.12	23.93	20.70	20.64	20.46	23.46	23.34	23.32	20.12	20.12	20.02
		36	18	27.37	27.46	27.42	24.11	24.03	23.86	26.96	26.84	26.63	23.51	23.50	19.06
	QPSK	75	0	26.70	26.99	26.79	23.59	23.49	23.37	26.63	26.29	26.17	23.02	22.97	22.99
		1	0	24.24	23.99	24.10	20.61	20.68	20.53	23.74	23.08	23.21	20.04	20.02	20.23
		1	1	27.63	27.62	27.54	24.00	24.17	23.94	27.06	26.88	26.72	23.57	23.55	23.70
		1	76	27.53	27.48	27.45	24.13	24.15	23.99	27.10	27.20	26.88	23.62	23.58	23.64
		1	77	23.98	24.14	23.93	20.67	20.66	20.49	23.42	23.28	23.21	20.12	20.16	19.99
		36	18	27.45	27.49	27.40	24.04	24.04	23.81	26.91	26.77	26.59	23.43	23.46	23.58
		75	0	26.50	26.44	26.34	23.08	23.04	22.88	25.93	25.78	25.54	22.51	22.47	22.51
		1	0	24.15	24.30	24.12	20.48	20.49	20.74	23.96	23.70	23.27	19.99	19.94	20.21
		1	1	26.79	26.90	26.56	23.12	23.03	23.22	26.52	26.15	25.95	22.38	22.39	22.39
		1	76	26.72	26.45	26.34	23.14	22.97	23.17	26.11	26.62	26.15	22.59	22.64	22.53
	16QAM	1	77	23.94	24.32	23.96	20.62	20.43	20.74	23.52	23.82	23.32	19.92	20.05	19.80
		36	18	26.55	26.49	26.39	23.04	23.01	22.82	25.89	25.79	25.58	22.45	22.47	22.52
		75	0	25.30	25.50	25.39	22.05	22.03	21.82	24.94	24.81	24.65	21.61	21.47	21.54
		1	0	24.05	23.89	23.95	20.38	20.33	20.44	23.61	23.47	23.60	20.12	20.07	19.83
		1	1	25.27	24.94	25.05	21.61	21.63	21.35	24.86	24.67	24.51	21.23	20.94	20.74
		1	76	25.34	25.06	24.83	21.64	21.50	21.48	24.79	24.45	24.61	21.37	21.04	21.01
		1	77	23.77	23.90	23.84	20.48	20.36	20.44	23.44	23.50	23.09	20.17	19.98	19.69
		36	18	25.09	24.93	24.82	21.43	21.50	21.36	24.45	24.37	24.11	20.95	20.96	21.03
		75	0	24.76	24.94	24.89	21.54	21.53	21.38	24.42	24.31	24.21	21.03	20.99	20.98
		64QAM	1	0	23.03	22.77	22.93	19.40	19.41	19.20	22.31	22.01	22.19	18.97	18.97
	1		1	23.03	22.80	22.90	19.57	19.49	19.25	22.43	22.50	22.04	18.60	18.97	19.17
	1		76	22.98	22.83	22.83	19.58	19.36	19.18	22.37	22.37	21.98	18.83	18.95	18.52
	1		77	22.91	22.76	22.82	19.53	19.43	19.37	22.46	22.25	22.08	18.77	18.88	18.78
	36		18	22.96	22.99	22.85	19.55	19.54	19.38	22.54	22.33	22.18	19.04	19.02	19.07
	75		0	22.82	22.91	22.94	19.54	19.49	19.32	22.45	22.21	22.09	18.93	18.76	18.91

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631332	633332	635332	631332	633332	635332	631332	633332	635332	631332	633332	635332
40.0	BPSK	1	0	24.27	24.05	24.11	20.60	20.60	20.50	23.56	23.36	23.29	20.03	19.88	19.90
		1	1	27.61	27.49	27.47	24.12	24.05	23.85	27.06	27.10	26.96	23.51	23.43	23.43
		1	104	27.70	27.58	27.42	24.20	24.14	23.90	27.20	27.07	26.75	23.70	23.55	23.55
		1	105	24.03	24.21	24.09	20.72	20.63	20.39	23.46	23.54	23.50	20.10	20.13	20.13
		50	25	27.38	27.50	27.49	23.91	23.92	23.77	26.91	26.90	26.81	23.36	23.39	23.44
		100	0	26.65	27.02	26.92	23.46	23.38	23.35	26.40	26.38	26.34	22.88	22.95	22.98
	QPSK	1	0	24.17	24.05	24.13	20.56	20.60	20.45	23.80	23.38	23.52	19.99	19.88	19.91
		1	1	27.68	27.48	27.56	23.91	23.97	23.89	27.10	26.75	26.93	23.39	23.37	23.41
		1	104	27.70	27.60	27.36	24.09	24.12	23.86	26.89	26.91	26.92	23.62	23.52	23.57
		1	105	24.01	24.19	24.13	20.70	20.59	20.44	23.52	23.57	23.32	20.13	20.14	20.12
		50	25	27.37	27.51	27.43	23.93	23.91	23.81	26.99	26.85	26.73	23.36	23.42	23.42
		100	0	26.18	26.48	26.44	22.99	22.96	22.78	25.92	25.85	25.80	22.47	22.44	22.48
	16QAM	1	0	24.08	24.19	24.19	20.51	20.45	20.75	23.25	23.06	23.99	19.74	19.86	19.86
		1	1	26.78	26.82	26.65	22.87	22.97	23.23	26.01	25.52	26.15	22.37	22.45	22.44
		1	104	26.89	26.50	26.34	23.22	22.97	23.05	25.51	25.56	26.21	22.59	22.42	22.44
		1	105	23.94	24.28	24.16	20.54	20.48	20.72	23.10	22.82	23.40	19.95	20.01	19.99
		50	25	26.38	26.47	26.43	22.97	22.89	23.08	25.89	25.79	25.85	22.24	22.36	22.38
		100	0	25.16	25.46	25.48	21.99	21.97	21.80	24.89	24.82	24.93	21.47	21.42	21.44
	64QAM	1	0	23.90	23.87	23.89	20.42	20.32	20.27	23.46	23.18	23.36	20.10	19.75	19.78
		1	1	25.52	24.98	25.05	21.62	21.52	21.17	24.49	24.21	24.69	21.14	20.92	20.92
		1	104	25.58	25.03	25.00	21.51	21.40	21.17	24.77	24.56	24.36	21.57	21.01	20.99
		1	105	23.76	24.12	24.07	20.45	20.36	20.33	23.34	23.08	23.43	20.20	19.96	19.96
		50	25	24.90	24.94	24.85	21.40	21.36	21.25	24.50	24.39	24.28	20.84	20.82	20.87
		100	0	24.58	24.95	24.98	21.38	21.37	21.27	24.33	24.37	24.35	20.93	20.87	20.84
	256QAM	1	0	23.03	22.93	22.79	19.33	19.26	19.31	22.53	22.51	22.35	18.74	18.79	18.83
		1	1	22.99	22.82	22.98	19.41	19.15	19.30	22.50	22.51	22.28	18.54	18.91	18.93
		1	104	23.08	22.97	22.89	19.46	19.21	19.18	22.86	22.86	22.21	18.69	19.11	19.16
		1	105	22.90	22.51	22.99	19.50	19.24	19.23	22.63	22.53	22.63	18.69	19.16	19.14
		50	25	22.95	22.98	22.91	19.48	19.43	19.34	22.45	22.24	22.34	18.91	18.91	18.91
		100	0	22.61	22.99	22.93	19.55	19.44	19.29	22.45	22.40	22.33	18.93	18.92	18.91

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631666	633332	634998	631666	633332	634998	631666	633332	634998	631666	633332	634998
50.0	BPSK	1	0	24.75	3500.0	3525.0	3475.0	3500.0	3525.0	3475.0	3500.0	3525.0	3475.0	3500.0	3525.0
		1	1	27.61	27.50	27.51	24.20	24.09	23.93	27.20	26.98	26.90	23.56	23.45	23.42
		1	131	27.66	27.70	27.53	24.04	24.09	23.91	26.82	26.84	26.95	23.45	23.62	23.56
		1	132	24.27	24.08	23.96	20.69	20.62	20.47	23.43	23.39	23.20	20.10	20.07	20.05
		64	32	27.50	27.67	27.48	24.01	24.00	23.82	26.67	26.65	26.65	23.50	23.52	23.56
		128	0	26.92	27.12	27.08	23.62	23.47	23.37	26.23	26.21	26.18	22.97	23.03	23.06
	QPSK	1	0	24.28	24.10	23.96	20.75	20.63	20.37	23.55	23.37	23.34	20.00	20.02	20.00
		1	1	27.70	27.53	27.57	24.18	24.17	23.91	27.18	26.68	26.68	23.49	23.45	23.56
		1	131	27.67	27.61	27.52	24.07	24.07	23.89	26.82	26.78	26.75	23.44	23.55	23.70
		1	132	24.15	24.10	23.93	20.70	20.66	20.50	23.47	23.23	23.13	20.10	20.12	20.15
		64	32	27.57	27.63	27.46	24.05	24.00	23.83	26.75	26.69	26.55	23.49	23.49	23.58
		128	0	26.51	26.55	26.51	23.07	23.09	23.00	25.70	25.63	25.64	22.41	22.50	22.61
	16QAM	1	0	24.17	24.39	24.23	20.65	20.55	20.46	23.45	23.08	23.17	19.97	19.86	19.86
		1	1	26.86	26.79	26.57	23.01	23.14	23.13	25.78	25.56	25.59	22.43	22.54	22.30
		1	131	26.80	26.51	26.48	23.22	23.07	23.31	25.58	25.56	25.58	22.47	22.53	22.39
		1	132	24.13	24.16	24.08	20.66	20.55	20.53	23.18	22.91	22.97	20.02	20.05	20.01
		64	32	26.45	26.56	26.50	23.08	22.95	22.95	25.72	25.65	25.67	22.40	22.48	22.56
		128	0	25.51	25.53	25.50	22.02	22.00	21.92	24.80	24.71	24.67	21.45	21.50	21.56
	64QAM	1	0	24.10	23.96	24.13	20.52	20.44	20.32	23.54	23.19	23.42	20.38	19.81	19.77
		1	1	25.40	25.23	25.05	21.63	21.71	21.50	24.75	24.03	24.19	21.19	20.80	20.83
		1	131	25.60	25.08	24.90	21.46	21.49	21.37	24.25	24.38	24.23	21.14	21.10	20.79
		1	132	24.09	24.02	24.06	20.51	20.42	20.49	23.33	23.35	23.13	20.37	20.00	19.87
		64	32	25.00	25.10	25.09	21.53	21.49	21.37	24.24	24.22	24.16	20.97	20.93	21.06
		128	0	25.03	25.06	24.97	21.54	21.49	21.32	24.21	24.21	24.14	20.99	21.00	21.08
	256QAM	1	0	23.59	22.94	22.85	19.49	19.38	19.30	22.90	22.23	22.52	18.66	18.97	18.57
		1	1	23.15	22.90	23.11	19.75	19.19	19.23	23.04	22.46	22.59	18.52	18.92	18.65
		1	131	22.96	23.05	22.92	19.53	19.48	19.50	22.63	22.64	22.45	18.71	19.00	18.93
		1	132	23.39	22.90	22.80	19.52	19.47	19.29	22.59	22.48	22.44	18.61	18.86	18.65
		64	32	22.90	23.12	23.03	19.56	19.43	19.50	22.22	22.17	22.18	18.98	19.08	19.07
		128	0	23.03	23.04	22.97	19.48	19.49	19.38	22.25	22.19	22.17	18.99	19.04	19.10

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632000	633332	634666	632000	633332	634666	632000	633332	634666	632000	633332	634666
60.0	BPSK	1	0	23.95	23.60	23.92	20.78	20.40	20.32	23.66	23.39	23.53	19.88	19.77	19.93
		1	1	27.70	27.61	27.46	24.11	23.92	23.83	27.20	27.05	26.98	23.62	23.33	23.68
		1	160	27.66	27.58	27.58	24.15	23.99	23.66	26.92	26.99	26.92	23.61	23.67	23.70
		1	161	23.95	24.00	23.89	20.78	20.43	20.26	23.43	23.23	23.33	20.06	20.11	19.90
		81	40	27.46	27.56	27.53	24.14	23.95	23.75	26.82	26.77	26.83	23.51	23.51	23.58
		162	0	27.06	27.06	27.18	23.71	23.48	23.26	26.33	26.27	26.23	22.98	23.00	23.11
	QPSK	1	0	23.83	23.57	24.02	20.78	20.43	20.30	23.63	23.38	23.38	19.92	19.86	20.07
		1	1	27.60	27.62	27.54	24.10	24.04	23.79	27.08	27.04	26.80	23.59	23.38	23.69
		1	160	27.67	27.57	27.56	24.20	24.04	23.69	27.04	26.96	26.88	23.52	23.65	23.65
		1	161	23.99	24.07	23.87	20.74	20.38	20.26	23.50	23.20	23.34	20.00	20.11	19.94
		81	40	27.55	27.56	27.53	24.14	23.96	23.73	26.76	26.84	26.78	23.52	23.59	23.65
		162	0	26.51	26.56	26.49	23.22	23.10	22.77	25.80	25.80	25.80	22.55	22.46	22.57
	16QAM	1	0	23.70	23.84	24.06	20.74	20.29	20.34	23.55	23.76	23.06	19.48	19.64	19.85
		1	1	26.71	26.84	26.30	23.10	22.60	22.95	25.98	25.65	25.41	22.32	22.18	22.70
		1	160	26.66	26.58	26.30	23.31	23.02	22.76	25.82	25.81	25.53	22.39	22.18	22.57
		1	161	23.72	24.16	23.91	20.70	20.29	20.29	23.26	23.74	23.05	19.79	20.04	19.85
		81	40	26.50	26.58	26.55	23.19	22.90	22.72	25.83	25.85	25.87	22.50	22.53	22.67
		162	0	25.56	25.48	25.56	22.13	21.98	21.69	24.81	24.84	24.79	21.59	21.52	21.61
	64QAM	1	0	23.62	23.47	23.82	20.62	20.22	20.18	23.61	23.48	23.76	20.00	19.61	19.42
		1	1	25.31	25.18	25.02	21.76	21.53	21.33	24.62	24.37	24.05	21.36	20.77	20.83
		1	160	25.21	25.21	25.07	21.54	21.58	21.16	24.58	24.53	24.41	21.39	20.87	20.86
		1	161	23.65	23.76	23.69	20.62	20.23	20.27	23.54	23.29	23.54	20.12	19.74	19.55
		81	40	24.96	25.08	25.05	21.63	21.50	21.21	24.29	24.36	24.34	21.17	21.02	21.24
		162	0	24.99	25.08	25.12	21.62	21.48	21.19	24.29	24.32	24.24	21.05	20.94	21.16
	256QAM	1	0	22.84	22.53	22.97	19.60	19.14	19.25	22.62	22.30	22.56	18.76	18.95	18.79
		1	1	22.90	22.86	22.75	19.86	19.46	19.26	22.84	22.85	22.70	18.70	18.92	18.86
		1	160	22.87	22.95	22.66	19.64	19.40	19.04	22.91	22.65	22.39	18.61	18.79	18.88
		1	161	22.86	22.99	22.92	19.65	19.29	19.12	22.61	22.08	22.49	18.83	18.98	18.65
		81	40	22.97	23.02	23.05	19.67	19.33	19.20	22.33	22.37	22.33	19.03	19.00	19.11
		162	0	23.02	23.03	23.06	19.59	19.51	19.13	22.29	22.31	22.21	19.01	18.95	19.06

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632333	633333	634333	632333	633333	634333	632333	633333	634333	632333	633333	634333
70.0	BPSK	1	0	24.09	23.85	23.98	20.73	20.57	20.53	23.63	23.49	23.45	20.09	19.78	19.93
		1	1	27.54	27.38	27.60	24.12	24.20	24.07	27.20	27.02	26.94	23.62	23.33	23.58
		1	187	27.68	27.63	27.51	24.12	24.06	23.75	26.94	26.88	26.79	23.51	23.44	23.44
		1	188	24.08	24.08	24.02	20.58	20.60	20.40	23.44	23.35	23.20	20.03	19.96	19.74
		90	45	27.48	27.58	27.51	24.09	24.10	23.82	26.91	26.89	26.83	23.45	23.43	23.64
		180	0	27.07	26.93	27.09	23.61	23.61	23.32	26.39	26.37	26.31	22.94	22.93	23.08
	QPSK	1	0	23.96	23.83	24.13	20.62	20.55	20.49	23.56	23.51	23.55	20.05	19.72	20.00
		1	1	27.64	27.38	27.48	23.98	24.14	23.94	27.18	27.15	26.98	23.46	23.30	23.70
		1	187	27.70	27.63	27.49	23.94	24.14	23.72	26.98	26.79	26.76	23.56	23.35	23.69
		1	188	23.94	24.09	23.96	20.56	20.65	20.24	23.34	23.41	23.34	20.00	20.05	19.82
		90	45	27.44	27.58	27.54	23.94	24.10	23.87	26.89	26.88	26.85	23.53	23.42	23.57
		180	0	26.48	26.63	26.44	23.05	23.14	22.87	25.85	25.92	25.84	22.49	22.48	22.59
	16QAM	1	0	23.80	23.90	24.37	20.48	20.58	20.56	23.82	23.61	23.62	19.68	19.85	19.91
		1	1	26.88	26.80	26.48	23.35	23.23	22.98	26.28	26.33	26.28	22.60	22.33	22.44
		1	187	26.63	26.86	26.58	23.12	23.34	22.94	26.07	26.05	25.96	22.62	22.66	22.31
		1	188	23.93	24.17	23.95	20.43	20.68	20.47	23.66	23.74	23.58	19.72	20.10	19.58
		90	45	26.59	26.58	26.44	23.16	23.19	22.86	25.94	25.92	25.86	22.50	22.37	22.61
		180	0	25.51	25.49	25.61	22.08	22.13	21.86	25.87	24.89	24.81	21.48	21.41	21.55
	64QAM	1	0	23.64	23.44	23.86	20.39	20.47	20.45	23.77	23.70	23.98	19.64	19.57	19.81
		1	1	25.38	25.10	24.87	21.40	21.49	21.44	24.92	25.00	24.57	20.59	20.80	21.25
		1	187	25.35	25.23	25.01	21.50	21.69	21.28	24.74	24.59	24.64	20.91	20.85	20.57
		1	188	23.65	24.03	23.75	20.36	20.54	20.34	23.56	23.54	23.62	19.70	19.64	19.47
		90	45	25.08	25.08	25.05	21.59	21.59	21.34	24.40	24.45	24.32	20.98	20.91	21.07
		180	0	24.99	25.07	24.99	21.60	21.62	21.36	24.36	24.43	24.32	20.92	20.97	21.07
	256QAM	1	0	22.85	22.59	23.00	19.29	19.44	19.37	22.45	22.46	22.33	18.87	18.42	18.49
		1	1	22.96	22.58	23.00	19.65	19.44	19.35	22.50	22.63	22.21	18.98	18.54	18.77
		1	187	22.91	22.92	22.74	19.49	19.58	19.30	22.35	22.23	22.21	18.84	18.59	18.73
		1	188	22.92	22.91	22.76	19.46	19.48	19.30	22.30	22.29	22.20	19.35	18.77	18.65
		90	45	22.93	23.02	22.95	19.66	19.57	19.38	22.45	22.45	22.36	18.84	18.90	19.05
		180	0	23.06	23.02	23.05	19.57	19.56	19.41	22.35	22.39	22.34	18.93	18.84	19.06

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632666	633332	633998	632666	633332	633998	632666	633332	633998	632666	633332	633998
80.0	BPSK	1	0	24.27	23.85	23.92	20.54	20.59	20.45	23.47	23.43	23.53	19.99	19.73	19.82
		1	1	27.59	27.57	27.70	24.03	24.05	23.93	27.05	27.05	27.01	23.46	23.23	23.24
		1	215	27.59	27.55	27.57	24.20	24.14	23.65	26.81	26.71	26.91	23.50	23.46	23.45
		1	216	24.14	23.94	23.90	20.62	20.53	20.24	23.28	23.00	23.12	19.79	19.82	19.82
		108	54	27.50	27.64	27.53	24.07	24.13	23.90	26.80	26.35	26.92	23.53	23.41	23.47
		216	0	27.07	27.09	27.07	23.57	23.54	23.38	26.37	26.33	26.38	22.88	22.91	22.98
	QPSK	1	0	24.22	23.91	23.90	20.67	20.59	20.49	23.70	23.49	23.68	19.86	19.80	19.88
		1	1	27.60	27.54	27.61	24.05	24.06	23.77	27.09	26.99	27.20	23.65	23.52	23.40
		1	215	27.59	27.57	27.51	24.04	24.05	23.64	26.62	26.72	26.84	23.70	23.41	23.40
		1	216	24.07	24.01	23.90	20.66	20.52	20.24	23.22	23.21	23.23	20.19	19.92	19.78
		108	54	27.47	27.59	27.66	24.02	24.12	23.93	26.87	25.74	26.89	23.52	23.45	23.53
		216	0	26.58	26.62	26.52	23.11	23.07	22.84	25.83	25.85	25.93	22.35	22.36	22.47
	16QAM	1	0	24.07	23.98	24.24	20.50	20.67	20.51	23.93	23.55	23.51	20.00	19.48	19.69
		1	1	26.72	26.86	26.70	23.36	23.47	22.95	25.99	26.38	26.50	22.59	22.03	22.30
		1	215	26.69	26.84	26.49	23.05	23.24	22.88	25.65	25.71	25.91	22.62	22.07	22.23
		1	216	24.03	24.06	24.14	20.57	20.60	20.39	23.57	23.45	23.42	19.44	19.57	19.37
		108	54	26.53	26.62	26.56	23.09	23.00	22.87	25.90	24.89	25.95	22.50	22.43	22.50
		216	0	25.55	25.63	25.62	22.09	22.02	21.81	24.85	24.81	24.92	21.38	21.31	21.55
	64QAM	1	0	23.91	23.76	23.71	20.34	20.50	20.38	23.37	23.91	23.72	19.90	19.44	19.42
		1	1	25.48	25.36	25.05	21.72	21.73	21.57	24.79	24.92	24.88	20.95	20.88	20.96
		1	215	25.48	25.24	24.81	21.37	21.40	21.34	24.76	24.17	24.57	21.02	20.42	20.56
		1	216	23.94	23.67	23.75	20.47	20.44	20.15	23.05	23.17	23.45	20.08	19.51	19.19
		108	54	25.08	25.13	25.02	21.62	21.59	21.39	24.31	24.39	24.46	20.98	20.90	20.94
		216	0	25.06	25.08	24.96	21.51	21.48	21.26	24.28	24.40	24.44	20.83	20.79	20.87
	256QAM	1	0	22.97	22.67	22.62	19.69	19.55	19.48	22.22	22.42	22.42	18.69	18.54	18.68
		1	1	22.94	22.86	22.86	19.55	19.86	19.33	22.59	22.20	22.52	18.67	18.42	18.84
		1	215	22.68	22.85	22.82	19.64	19.44	19.19	21.78	22.36	22.24	18.22	18.58	18.72
		1	216	22.98	22.84	22.82	19.65	19.56	19.14	22.11	22.01	22.21	18.31	18.46	18.66
		108	54	22.92	23.16	23.09	19.63	19.49	19.35	22.30	22.36	22.45	18.93	18.76	18.98
		216	0	23.08	23.12	22.99	19.56	19.51	19.32	22.36	22.28	22.46	18.82	18.84	18.91

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				633000	633332	633666	633000	633332	633666	633000	633332	633666	633000	633332	633666
90.0	BPSK	1	0	24.05	23.95	23.85	20.66	20.61	20.34	23.67	23.72	23.63	20.13	20.17	20.31
		1	1	27.50	27.62	27.42	24.13	24.08	24.03	26.99	26.96	27.11	23.70	23.49	23.39
		1	243	27.47	27.40	27.35	23.87	24.02	23.77	26.89	26.82	26.66	23.68	23.55	23.45
		1	244	24.12	23.88	23.80	20.42	20.55	20.27	23.07	23.30	23.20	20.17	19.99	20.26
		120	60	27.40	27.55	27.36	23.96	24.03	23.87	26.90	26.92	26.87	23.64	23.53	23.70
		243	0	26.94	26.95	26.94	23.56	23.52	23.29	26.35	26.43	26.38	23.09	23.09	23.21
	QPSK	1	0	24.01	23.94	23.65	20.51	20.69	20.46	23.57	23.61	23.67	20.15	20.06	20.23
		1	1	27.70	27.60	27.46	24.01	24.20	23.95	27.10	27.20	27.06	23.50	23.69	23.66
		1	243	27.56	27.48	27.34	24.06	23.88	23.78	26.82	26.85	26.72	23.64	23.54	23.55
		1	244	24.00	23.89	23.81	20.43	20.51	20.40	23.24	23.23	23.25	20.14	20.01	20.13
		120	60	27.36	27.51	27.36	23.94	24.04	23.89	26.95	26.94	26.94	23.65	23.54	23.60
		243	0	26.45	26.50	26.48	23.09	23.06	22.89	25.89	25.95	25.87	22.68	22.58	22.65
	16QAM	1	0	23.85	24.01	24.11	20.36	20.70	20.50	23.91	23.80	23.75	20.27	19.75	20.13
		1	1	26.67	26.94	26.54	23.35	23.23	23.19	26.08	26.22	26.29	22.34	21.97	22.55
		1	243	26.58	26.70	26.30	23.23	23.24	23.01	25.96	25.97	26.09	22.40	21.93	22.31
		1	244	23.85	23.91	24.22	20.33	20.56	20.56	23.40	23.36	23.36	20.05	19.60	20.14
		120	60	26.38	26.48	26.41	22.93	23.16	22.90	25.94	25.94	25.88	22.65	22.65	22.67
		243	0	25.41	25.50	25.40	22.06	21.95	21.81	24.89	24.97	24.86	21.62	21.63	21.84
	64QAM	1	0	23.69	23.83	23.80	20.46	20.49	20.24	23.73	23.75	23.60	19.82	19.78	19.85
		1	1	25.34	25.57	24.84	21.51	21.53	21.51	24.72	24.84	24.72	21.00	21.09	20.83
		1	243	25.33	24.97	25.00	21.32	21.37	21.35	24.55	24.83	23.97	20.92	20.87	20.81
		1	244	23.63	23.81	23.63	20.11	20.38	19.96	23.06	23.50	22.86	19.81	19.75	20.00
		120	60	24.98	25.00	24.93	21.34	21.53	21.36	24.40	24.33	24.39	21.18	21.01	21.19
		243	0	24.81	24.95	24.88	21.46	21.45	21.31	24.44	24.48	24.42	21.19	21.08	21.17
	256QAM	1	0	22.97	22.82	22.70	19.28	19.53	19.51	22.44	22.59	22.59	18.78	18.88	18.90
		1	1	22.81	23.01	22.72	19.26	19.47	19.28	22.69	22.27	22.21	18.84	18.75	19.01
		1	243	22.55	22.65	22.66	19.52	19.37	19.47	21.83	22.01	21.96	18.86	18.77	18.67
		1	244	22.89	22.56	22.76	19.53	19.41	19.26	22.17	21.87	22.00	18.33	18.71	18.85
		120	60	22.90	22.92	22.95	19.42	19.47	19.31	22.37	22.42	22.42	18.53	19.09	19.27
		243	0	22.86	22.89	22.84	19.53	19.52	19.37	22.51	22.39	22.31	19.12	19.05	19.24

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
100.0	BPSK	1	0		23.89			20.62			23.67			20.24	
		1	1		27.70			24.06			27.20			23.64	
		1	271		27.36			24.02			26.82			23.60	
		1	272		23.82			20.56			23.33			20.23	
		135	67		27.49			24.20			26.82			23.67	
		270	0		26.89			23.58			26.34			23.20	
	QPSK	1	0		23.92			20.62			23.59			20.21	
		1	1		27.69			24.04			27.16			23.61	
		1	271		27.40			24.13			26.79			23.62	
		1	272		23.83			20.46			23.28			20.20	
		135	67		27.50			24.10			26.80			23.70	
		270	0		26.46			23.05			25.83			22.70	
	16QAM	1	0		24.06			20.70			23.83			19.91	
		1	1		26.67			23.24			26.30			22.61	
		1	271		26.64			23.12			25.92			22.42	
		1	272		23.87			20.54			23.25			20.00	
		135	67		26.42			23.10			25.79			22.74	
		270	0		25.47			22.09			24.81			21.75	
	64QAM	1	0		23.77			20.32			23.61			19.89	
		1	1		25.13			21.63			24.97			21.26	
		1	271		24.92			21.53			24.54			21.36	
		1	272		23.78			20.25			23.50			20.04	
		135	67		24.96			21.59			24.28			21.09	
		270	0		24.89			21.57			24.31			21.22	
	256QAM	1	0		22.79			19.44			22.35			18.97	
		1	1		22.90			19.68			22.37			19.07	
		1	271		22.59			19.51			22.38			18.96	
		1	272		22.48			19.60			22.14			19.22	
		135	67		22.86			19.55			22.37			19.22	
		270	0		22.78			19.60			22.25			19.19	

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

Test Engineer ID:	10646	Test Date:	5/26/2021
-------------------	-------	------------	-----------

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647333	656000	664666	647333	656000	664666	647333	656000	664666	647333	656000	664666
20.0	BPSK	1	0	23.29	23.89	23.94	20.17	20.53	19.88	27.15	23.30	22.99	20.63	21.22	21.59
		1	1	26.91	27.56	27.47	23.58	23.88	23.18	27.06	26.81	26.76	22.77	23.03	23.46
		1	49	26.93	27.41	27.24	23.34	24.20	23.37	27.20	26.83	26.81	22.90	23.37	23.26
		1	50	23.50	24.07	23.51	19.73	20.46	20.03	23.45	23.17	23.13	20.58	21.22	21.45
		25	12	26.84	27.50	27.27	23.14	23.88	23.16	27.03	26.80	26.67	22.96	23.18	23.30
	QPSK	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	49	26.97	27.70	27.28	23.12	24.11	22.57	26.97	26.70	26.61	22.73	23.62	23.42
		1	50	23.31	24.12	23.76	19.82	20.36	20.25	23.41	23.19	23.19	20.65	21.52	21.10
		25	12	26.95	27.10	27.13	23.27	23.97	22.23	26.98	26.39	26.29	22.92	23.34	23.32
	16QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	49	26.97	27.70	27.28	23.12	24.11	22.57	26.97	26.70	26.61	22.73	23.62	23.42
		1	50	23.31	24.12	23.76	19.82	20.36	20.25	23.41	23.19	23.19	20.65	21.52	21.10
		25	12	26.95	27.10	27.13	23.27	23.97	22.23	26.98	26.39	26.29	22.92	23.34	23.32
	64QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	49	26.97	27.70	27.28	23.12	24.11	22.57	26.97	26.70	26.61	22.73	23.62	23.42
		1	50	23.31	24.12	23.76	19.82	20.36	20.25	23.41	23.19	23.19	20.65	21.52	21.10
		25	12	26.95	27.10	27.13	23.27	23.97	22.23	26.98	26.39	26.29	22.92	23.34	23.32
	256QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	49	26.97	27.70	27.28	23.12	24.11	22.57	26.97	26.70	26.61	22.73	23.62	23.42
		1	50	23.31	24.12	23.76	19.82	20.36	20.25	23.41	23.19	23.19	20.65	21.52	21.10
		25	12	26.95	27.10	27.13	23.27	23.97	22.23	26.98	26.39	26.29	22.92	23.34	23.32

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647666	656000	664333	647666	656000	664333	647666	656000	664333	647666	656000	664333
30.0	BPSK	1	0	23.41	23.79	23.82	19.67	20.50	19.66	23.70	23.60	23.60	20.59	21.55	21.01
		1	1	23.45	27.18	27.41	23.17	23.87	23.39	27.18	27.08	26.50	22.79	23.68	23.01
		1	76	26.81	27.70	27.25	23.32	24.20	23.62	27.08	26.68	26.84	22.68	23.50	22.98
		1	77	23.49	24.20	23.84	20.03	20.63	19.56	23.72	23.31	23.56	20.65	21.41	20.57
		36	18	26.89	27.41	27.13	23.20	23.99	23.28	27.09	26.77	26.83	22.76	23.53	22.81
	QPSK	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	76	27.08	26.99	27.01	23.22	24.15	23.46	27.14	26.30	25.98	22.87	23.69	23.01
		1	77	23.35	23.99	23.74	19.71	20.68	20.08	23.42	23.32	23.51	20.85	21.40	20.82
		36	18	26.88	27.37	27.09	23.25	23.98	23.21	27.05	26.41	26.60	22.77	23.45	22.77
	16QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	76	27.08	26.99	27.01	23.22	24.15	23.46	27.14	26.30	25.98	22.87	23.69	23.01
		1	77	23.35	23.99	23.74	19.71	20.68	20.08	23.42	23.32	23.51	20.85	21.40	20.82
		36	18	26.88	27.37	27.09	23.25	23.98	23.21	27.05	26.41	26.60	22.77	23.45	22.77
	64QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	76	27.08	26.99	27.01	23.22	24.15	23.46	27.14	26.30	25.98	22.87	23.69	23.01
		1	77	23.35	23.99	23.74	19.71	20.68	20.08	23.42	23.32	23.51	20.85	21.40	20.82
		36	18	26.88	27.37	27.09	23.25	23.98	23.21	27.05	26.41	26.60	22.77	23.45	22.77
	256QAM	1	0	23.49	23.84	23.73	19.88	20.30	19.82	26.99	23.32	23.06	20.91	21.54	21.51
		1	1	26.83	27.15	26.63	23.39	23.69	22.28	27.03	26.41	26.05	22.94	23.69	23.70
		1	76	27.08	26.99	27.01	23.22	24.15	23.46	27.14	26.30	25.98	22.87	23.69	23.01
		1	77	23.35	23.99	23.74	19.71	20.68	20.08	23.42	23.32	23.51	20.85	21.40	20.82
		36	18	26.88	27.37	27.09	23.25	23.98	23.21	27.05	26.41	26.60	22.77	23.45	22.77

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648000	656000	664000	648000	656000	664000	648000	656000	664000	648000	656000	664000
40.0	BPSK	1	0	23.60	23.76	23.92	19.57	20.35	19.76	23.53	23.47	23.49	20.34	21.27	20.36
		1	1	27.38	27.63	27.69	23.25	23.82	23.49	27.20	26.92	26.64	22.49	23.18	22.58
		1	104	27.09	27.59	27.41	23.43	24.20	23.43	27.11	26.45	26.77	22.82	23.35	22.68
		1	105	23.45	23.85	24.00	19.51	20.58	20.13	23.64	23.11	23.45	20.55	21.23	20.64
		50	25	26.94	27.45	27.36	23.31	23.93	23.35	26.83	26.71	26.62	22.64	23.26	22.64
		100	0	26.55	26.92	26.90	22.71	23.44	22.85	26.34	26.29	26.22	22.56	23.19	22.64
	QPSK	1	0	23.45	23.84	23.90	19.64	20.38	19.88	23.60	23.43	23.44	20.64	20.88	20.76
		1	1	27.07	27.21	27.00	23.16	23.61	23.44	27.00	26.11	25.79	22.69	23.09	22.66
		1	104	26.93	27.70	27.39	23.23	24.06	23.37	26.96	25.89	26.40	22.80	23.47	22.61
		1	105	23.44	24.09	23.73	19.84	20.69	20.09	23.46	23.14	23.21	20.55	21.19	20.53
		50	25	26.98	27.40	27.15	23.25	23.99	23.32	26.79	26.31	26.35	22.60	23.28	22.62
		100	0	26.03	26.48	26.36	22.22	22.98	22.31	25.81	25.66	25.44	22.60	23.19	22.66
	16QAM	1	0	23.59	24.04	24.48	19.76	20.70	20.21	23.16	22.83	23.42	19.53	20.48	20.05
		1	1	26.19	26.58	25.71	22.33	23.01	22.41	25.70	25.08	24.23	22.06	22.59	21.87
		1	104	26.23	26.84	26.69	22.26	23.30	22.57	25.34	25.04	24.99	22.15	22.93	21.96
		1	105	23.36	23.73	24.10	19.71	20.67	20.33	23.00	22.64	22.36	19.73	20.62	19.76
		50	25	25.87	26.41	26.26	22.17	22.91	22.23	25.84	25.51	25.48	21.86	22.52	21.88
		100	0	24.93	25.47	25.45	21.23	21.96	21.34	24.84	24.79	24.61	21.17	21.82	21.26
	64QAM	1	0	23.79	24.02	24.02	19.89	20.56	20.18	23.28	23.70	23.73	19.43	20.47	19.38
		1	1	24.79	24.60	24.68	20.95	21.78	21.36	24.77	24.28	23.79	20.49	20.98	20.27
		1	104	24.41	25.21	25.41	20.60	21.69	21.00	24.50	24.23	24.12	20.38	21.25	21.02
		1	105	23.99	24.15	23.91	20.11	20.72	20.47	23.88	23.19	23.27	19.61	19.95	19.55
		50	25	24.47	24.85	24.82	20.67	21.41	20.77	24.35	24.17	24.13	20.62	21.28	20.64
		100	0	24.49	24.97	24.86	20.67	21.41	20.78	24.34	24.25	24.16	20.59	21.27	20.70
	256QAM	1	0	23.09	23.28	23.03	18.13	19.09	18.45	22.86	22.16	22.35	18.08	19.23	18.50
		1	1	22.91	23.08	23.45	18.26	18.80	18.51	22.62	22.40	22.29	18.49	19.20	18.91
		1	104	22.64	23.29	22.94	18.11	19.04	18.97	21.78	21.83	21.80	18.66	19.22	18.75
		1	105	22.59	23.44	22.82	18.53	18.94	18.80	22.06	21.94	22.09	18.29	19.24	18.61
		50	25	22.53	22.86	22.92	18.79	19.39	18.75	22.32	22.29	22.13	18.64	19.28	18.69
		100	0	22.47	22.95	22.91	18.73	19.47	18.90	22.32	22.33	22.25	18.66	19.35	18.72

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648333	656000	663666	648333	656000	663666	648333	656000	663666	648333	656000	663666
50.0	BPSK	1	0	22.96	23.36	23.68	19.81	20.38	20.06	23.21	22.75	23.34	20.32	21.01	20.85
		1	1	26.38	26.95	27.16	23.32	23.81	23.60	27.20	26.39	26.53	22.61	23.32	22.98
		1	131	26.64	27.70	27.28	23.07	24.14	23.62	26.88	26.46	26.28	22.76	23.66	23.33
		1	132	23.11	23.91	23.77	19.68	20.74	20.22	23.35	22.65	22.73	20.55	21.51	20.78
		64	32	26.59	27.50	27.15	23.40	24.10	23.52	26.79	26.34	26.37	22.72	23.59	23.01
		128	0	26.02	26.94	26.65	22.77	23.56	23.09	26.28	25.88	25.96	22.67	23.51	22.95
	QPSK	1	0	22.92	23.43	23.58	19.62	20.25	20.22	23.51	23.22	23.26	20.37	21.12	20.76
		1	1	26.29	26.86	26.65	23.18	23.77	23.67	26.93	25.94	25.60	22.60	23.19	23.13
		1	131	26.64	27.62	27.27	23.15	24.11	23.67	26.84	25.88	25.53	22.64	23.70	23.13
		1	132	23.05	24.06	23.76	19.60	20.62	20.19	23.12	22.55	22.71	20.61	21.51	20.94
		64	32	26.54	27.43	27.06	23.38	24.20	23.54	26.78	25.72	25.82	22.71	23.62	23.05
		128	0	25.52	26.42	26.19	22.22	23.09	22.59	25.82	25.23	24.81	22.72	23.53	23.00
	16QAM	1	0	22.67	23.49	23.65	19.89	20.27	20.20	23.44	22.56	23.06	18.73	19.49	19.89
		1	1	25.30	25.98	25.88	22.35	22.82	22.73	25.67	24.88	24.47	21.36	21.80	21.91
		1	131	25.60	26.64	26.25	22.53	23.22	22.87	25.22	24.87	24.59	21.42	22.09	21.99
		1	132	23.09	24.06	23.77	19.70	20.61	20.24	22.89	22.53	22.51	19.15	20.06	20.19
		64	32	25.59	26.46	26.19	22.29	23.09	22.53	25.82	24.96	24.89	21.73	22.53	22.00
		128	0	24.56	25.43	25.20	22.28	22.10	21.56	24.86	24.29	24.04	20.97	21.82	21.30
	64QAM	1	0	22.68	23.06	23.43	20.11	20.40	20.43	23.95	22.86	23.19	19.22	19.84	19.80
		1	1	23.80	24.51	24.31	21.18	21.34	21.46	24.83	23.85	23.33	20.41	21.06	20.77
		1	131	23.81	24.77	24.48	20.97	21.95	21.38	24.34	23.76	23.39	20.59	21.25	20.57
		1	132	22.74	23.78	23.63	20.01	20.79	20.42	23.29	22.73	22.89	19.48	20.35	19.94
		64	32	24.21	24.94	24.72	20.93	21.59	21.10	24.35	23.70	23.61	20.49	21.39	20.74
		128	0	24.00	24.87	24.68	20.81	21.63	21.05	24.31	23.90	23.60	20.51	21.31	20.80
	256QAM	1	0	21.95	22.72	22.74	18.77	19.12	18.86	22.36	22.20	22.27	18.10	18.30	18.56
		1	1	22.03	22.50	22.71	18.78	18.75	18.67	22.53	22.17	22.25	17.98	18.79	18.60
		1	131	21.91	23.09	22.85	18.33	19.12	18.85	21.78	22.17	21.99	18.26	19.25	18.60
		1	132	22.16	23.13	22.85	18.34	19.04	18.69	22.00	21.84	21.87	18.18	18.98	19.18
		64	32	22.13	22.90	22.66	18.88	19.62	19.06	22.33	21.91	22.49	18.58	19.37	18.76
		128	0	22.05	22.85	22.65	18.86	19.65	19.10	22.37	21.89	21.88	18.55	19.34	18.82

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648666 3730.0	656000 3840.0	663333 3950.0	648666 3730.0	656000 3840.0	663333 3950.0	648666 3730.0	656000 3840.0	663333 3950.0	648666 3730.0	656000 3840.0	663333 3950.0
60.0	BPSK	1	0	23.08	23.63	23.71	19.99	20.13	20.20	23.14	23.53	23.56	20.35	20.80	20.81
		1	1	26.71	27.14	27.17	23.52	23.84	23.68	27.03	26.89	27.18	22.69	23.11	23.10
		1	160	26.89	27.68	27.06	23.45	24.07	23.86	26.89	27.06	26.76	22.77	23.70	23.07
		1	161	23.25	24.06	23.69	19.88	20.58	20.28	23.38	23.28	23.22	20.55	21.38	20.92
		81	40	26.83	27.63	27.25	23.83	24.20	23.72	26.85	26.98	27.02	22.93	23.65	23.18
		162	0	26.38	27.09	26.69	23.18	23.57	23.23	26.39	26.55	26.41	22.87	23.53	23.13
	QPSK	1	0	23.23	23.72	23.67	19.92	20.12	20.40	23.11	23.48	23.60	20.38	20.99	20.84
		1	1	26.60	27.16	27.14	23.45	23.71	23.71	26.81	26.86	27.20	22.76	23.22	23.00
		1	160	26.87	27.56	27.19	23.55	24.05	23.90	26.96	27.04	26.74	22.73	23.60	23.13
		1	161	23.19	24.14	23.71	19.96	20.51	20.39	23.23	23.36	23.00	20.54	21.42	20.96
		81	40	26.86	27.70	27.26	23.70	24.18	23.70	26.88	26.64	27.01	22.92	23.62	23.12
		162	0	25.86	26.64	26.17	22.60	23.07	22.76	25.86	25.90	25.97	22.77	23.53	23.15
	16QAM	1	0	23.21	23.71	23.54	19.71	20.27	19.99	23.13	23.21	23.48	19.15	19.69	19.55
		1	1	25.79	26.31	26.22	22.28	22.79	22.67	25.61	25.94	26.06	21.48	22.13	21.73
		1	160	25.91	26.77	26.24	22.03	23.06	22.70	25.44	26.03	25.34	21.24	22.21	22.00
		1	161	23.23	24.18	23.87	19.79	20.67	19.81	22.98	22.96	22.80	19.16	20.21	19.65
		81	40	25.93	26.71	26.29	22.65	23.12	22.78	25.90	25.95	26.00	22.00	22.62	22.20
		162	0	24.86	25.63	25.17	21.57	22.06	21.72	24.96	25.03	24.99	21.12	21.88	21.47
	64QAM	1	0	23.17	23.50	23.59	19.85	20.16	19.98	23.07	23.57	23.75	19.16	19.84	19.41
		1	1	23.90	24.35	24.65	20.73	21.03	21.27	24.40	24.44	24.62	20.46	20.77	20.86
		1	160	24.13	24.67	24.30	21.06	21.75	21.72	24.50	24.54	24.27	20.63	21.01	20.86
		1	161	22.87	23.91	23.43	19.79	20.56	20.47	23.31	23.50	23.11	19.67	20.44	20.03
		81	40	24.40	25.02	24.75	21.22	21.67	21.21	24.47	24.49	24.43	20.67	21.47	20.99
		162	0	24.34	24.93	24.69	21.11	21.66	21.26	24.44	24.55	24.48	20.68	21.39	20.96
	256QAM	1	0	22.19	22.43	22.89	18.43	18.89	18.98	22.32	22.66	22.68	18.23	18.86	18.54
		1	1	22.03	22.66	22.78	18.91	18.96	19.07	22.68	22.78	23.11	18.10	18.77	18.17
		1	160	22.24	23.05	22.86	18.55	19.57	19.18	22.71	22.97	22.28	18.15	19.11	18.61
		1	161	22.12	23.16	22.63	18.56	19.16	18.90	22.44	22.49	22.38	18.29	18.99	18.65
		81	40	22.40	23.11	22.80	19.20	19.72	19.15	22.56	22.55	22.50	18.68	19.50	18.97
		162	0	22.37	22.94	22.73	19.12	19.63	19.23	22.45	22.54	22.44	18.70	19.41	18.92

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649000 3735.0	656000 3840.0	663000 3945.0	649000 3735.0	656000 3840.0	663000 3945.0	649000 3735.0	656000 3840.0	663000 3945.0	649000 3735.0	656000 3840.0	663000 3945.0
70.0	BPSK	1	0	23.04	23.32	23.59	19.56	20.17	20.27	22.85	23.48	23.48	20.28	20.74	20.85
		1	1	26.71	26.83	27.11	23.13	23.64	23.74	26.96	27.18	27.00	22.65	23.15	23.19
		1	187	26.75	27.64	27.28	23.35	24.09	23.88	26.54	27.20	26.30	22.48	23.68	23.14
		1	188	23.41	23.87	23.66	19.71	20.44	20.17	23.21	23.58	22.85	20.33	20.94	20.95
		90	45	26.87	27.68	27.35	23.50	24.13	23.79	26.72	27.13	26.82	22.93	23.70	23.24
		180	0	26.28	27.08	26.78	22.79	23.56	23.30	26.27	26.57	26.33	22.85	23.59	23.21
	QPSK	1	0	23.02	23.40	23.63	19.37	19.96	20.34	23.09	23.47	23.58	20.39	20.90	21.10
		1	1	26.36	26.89	27.12	22.88	23.68	23.72	26.92	26.79	27.14	22.53	23.24	23.07
		1	187	26.77	27.56	27.33	23.22	24.20	23.71	26.55	27.15	26.45	22.57	23.64	23.08
		1	188	23.35	24.18	23.81	19.73	20.47	20.26	23.01	23.51	22.89	20.43	21.40	20.93
		90	45	26.83	27.70	27.32	23.15	24.12	23.79	26.73	26.89	26.79	22.99	23.68	23.25
		180	0	25.76	26.58	25.79	22.28	23.04	22.80	25.76	26.06	25.80	22.87	23.58	23.24
	16QAM	1	0	23.01	23.43	23.74	19.61	20.42	19.92	22.68	23.36	23.07	19.23	19.19	19.93
		1	1	25.54	26.10	25.94	22.22	22.56	22.69	25.83	25.82	25.80	21.37	21.58	21.69
		1	187	25.88	26.64	26.31	22.52	22.96	22.55	25.24	26.08	24.92	21.04	22.43	21.95
		1	188	23.29	24.00	24.04	19.92	20.15	20.22	22.74	23.19	22.70	19.14	20.42	19.96
		90	45	25.87	26.54	26.32	22.36	23.09	22.82	25.73	26.01	25.79	21.96	22.69	22.21
		180	0	24.73	25.54	25.32	21.26	22.04	21.83	24.73	25.11	24.66	21.17	21.86	21.53
	64QAM	1	0	22.65	23.14	23.65	20.05	20.11	20.29	23.34	23.25	23.27	19.08	20.18	20.05
		1	1	24.09	24.17	24.53	20.93	21.24	21.39	24.91	24.48	24.44	20.11	21.20	20.90
		1	187	24.37	25.07	24.54	21.02	21.61	21.15	24.32	24.82	24.03	20.05	21.19	20.92
		1	188	23.04	23.95	23.53	20.08	20.58	20.22	23.21	23.72	22.57	19.28	20.39	20.03
		90	45	24.25	25.17	24.88	21.23	21.73	21.34	24.24	24.58	24.28	20.70	21.50	21.06
		180	0	24.28	25.04	24.85	21.13	21.55	21.34	24.25	24.63	23.93	20.64	21.36	21.00
	256QAM	1	0	22.26	22.44	22.47	18.88	18.82	18.96	22.11	22.85	22.70	18.32	18.52	18.64
		1	1	22.19	22.70	22.51	18.62	18.94	18.99	22.43	23.01	22.85	18.09	18.59	18.57
		1	187	22.33	23.02	22.55	18.52	19.45	19.08	22.27	22.79	22.00	18.06	19.29	19.08
		1	188	22.08	23.08	22.81	18.52	19.30	19.17	22.16	22.75	21.97	18.30	19.02	18.73
		90	45	22.40	23.16	22.92	19.32	19.68	19.36	22.25	22.63	22.36	18.69	19.55	19.03
		180	0	22.28	23.04	22.82	19.21	19.58	19.35	22.34	22.61	22.02	18.65	19.46	18.98

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649333	656000	662666	649333	656000	662666	649333	656000	662666	649333	656000	662666
80.0	BPSK	1	0	23.06	23.48	23.69	19.97	19.95	20.26	23.05	23.58	22.42	20.32	20.77	20.74
		1	1	26.70	26.98	27.25	23.46	23.66	23.70	26.16	27.20	26.43	22.69	23.10	23.08
		1	215	26.60	27.60	27.27	23.15	24.15	23.80	25.40	26.22	25.47	22.82	23.52	23.04
		1	216	23.12	23.84	23.77	19.98	20.71	20.33	22.57	23.43	21.91	20.39	21.42	20.77
		108	54	26.86	27.69	27.53	23.57	24.20	23.86	25.87	26.65	26.02	22.83	23.70	23.28
		216	0	26.32	27.10	26.89	23.00	23.56	23.39	25.42	26.04	25.51	22.77	23.58	23.22
	QPSK	1	0	23.20	23.50	23.55	19.89	20.27	20.33	22.99	23.54	22.68	20.72	21.03	21.00
		1	1	26.87	26.80	27.00	23.49	23.65	23.69	25.97	26.56	26.27	22.73	22.99	23.35
		1	215	26.45	27.51	27.38	23.43	23.96	23.77	25.58	26.42	25.53	22.51	23.53	23.13
		1	216	23.11	23.92	23.87	19.84	20.55	20.34	22.58	22.76	21.77	20.41	21.30	20.89
		108	54	26.86	27.70	27.61	23.61	24.20	23.89	25.80	26.62	26.10	22.87	23.66	23.26
		216	0	25.76	26.59	26.34	22.51	23.09	22.88	24.92	25.63	25.00	22.80	23.56	23.24
	16QAM	1	0	23.28	23.22	23.52	20.17	20.14	20.23	22.91	23.16	22.25	19.27	19.53	19.79
		1	1	25.69	25.74	26.36	22.67	23.21	22.86	24.96	25.70	24.74	21.56	21.92	21.81
		1	215	25.74	26.45	26.16	22.48	23.10	22.81	24.60	25.08	24.37	21.20	22.00	22.07
		1	216	22.99	23.84	23.45	19.95	20.59	20.42	22.60	22.61	21.58	18.94	19.96	19.46
		108	54	25.85	26.74	26.58	22.63	23.22	22.88	24.92	25.62	25.02	21.87	22.66	22.33
		216	0	24.73	25.52	25.37	21.59	22.11	21.89	23.96	24.64	23.95	21.17	21.86	21.63
	64QAM	1	0	23.22	23.28	23.38	19.88	20.15	20.65	23.10	23.35	22.89	19.56	19.96	19.99
		1	1	23.95	24.42	24.45	21.30	21.72	21.26	23.47	24.54	23.85	20.22	20.69	21.36
		1	215	24.12	25.02	24.71	20.88	21.71	21.25	23.39	23.83	23.04	20.28	21.40	20.50
		1	216	22.88	23.92	23.53	19.77	20.75	20.36	22.62	22.87	21.74	19.11	20.22	19.88
		108	54	24.41	25.20	25.02	20.96	21.67	21.35	23.42	24.05	23.50	20.70	21.51	21.09
		216	0	24.27	25.05	24.90	21.06	21.59	21.34	23.40	24.22	23.50	20.65	21.30	21.04
	256QAM	1	0	22.35	22.27	22.60	18.98	18.68	19.04	21.45	22.83	21.90	18.04	18.52	19.05
		1	1	22.17	22.84	22.77	18.72	18.93	18.92	21.84	22.68	22.01	18.25	18.40	18.41
		1	215	22.15	23.14	22.32	18.43	19.22	19.18	21.42	22.36	21.37	18.11	18.96	18.86
		1	216	22.01	23.31	22.78	18.75	19.63	19.27	21.64	22.10	21.11	18.51	18.91	18.74
		108	54	22.37	23.23	23.08	19.10	19.73	19.35	21.44	22.17	21.56	18.68	19.49	19.11
		216	0	22.25	23.07	22.87	19.10	19.61	19.44	21.40	22.19	21.50	18.64	19.37	19.14

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649666	656000	662333	649666	656000	662333	649666	656000	662333	649666	656000	662333
90.0	BPSK	1	0	23.48	23.38	23.41	19.99	19.88	20.15	22.81	23.59	23.27	20.45	20.45	21.05
		1	1	27.10	26.90	27.27	23.47	23.38	23.78	26.36	27.20	26.79	22.81	22.88	23.15
		1	243	26.97	27.70	27.34	23.29	24.01	23.89	26.60	26.53	26.15	22.74	23.56	23.13
		1	244	23.15	24.06	23.89	19.79	20.62	20.32	22.38	23.22	22.37	20.21	21.26	20.67
		120	60	27.03	27.63	27.41	23.59	24.15	23.94	26.60	26.56	26.57	22.84	23.50	23.21
		243	0	26.38	26.96	26.84	23.05	23.52	23.38	25.74	26.17	25.92	22.74	23.38	23.22
	QPSK	1	0	23.49	23.15	23.37	19.97	19.95	20.12	22.84	23.76	23.15	20.61	20.79	21.03
		1	1	27.13	26.73	27.19	23.49	23.60	23.99	26.55	26.99	26.72	23.04	22.88	23.17
		1	243	26.74	27.42	27.16	23.27	24.03	23.84	26.48	26.45	25.91	22.77	23.70	23.16
		1	244	23.30	23.88	23.80	19.76	20.59	20.51	22.14	23.08	22.43	20.46	21.26	20.75
		120	60	26.90	27.67	27.43	23.57	24.20	23.88	26.58	26.43	26.57	22.86	23.54	23.16
		243	0	25.92	26.49	26.34	22.50	22.99	22.94	25.67	25.70	25.45	22.77	23.38	23.22
	16QAM	1	0	23.75	23.41	23.49	20.40	20.00	20.31	22.87	23.57	22.82	20.07	19.48	19.85
		1	1	26.17	25.98	25.89	22.68	22.74	22.98	24.94	25.83	25.66	21.68	21.89	21.86
		1	243	25.97	26.47	26.51	22.27	22.85	23.26	25.28	25.47	24.66	21.41	22.59	21.83
		1	244	23.10	23.71	23.45	20.02	20.82	20.52	22.28	23.24	22.08	19.62	20.08	19.86
		120	60	26.01	26.62	26.16	22.56	23.14	22.91	25.58	25.62	25.54	21.84	22.51	22.13
		243	0	24.87	25.48	24.82	21.54	21.98	21.86	24.70	24.70	24.46	21.04	21.65	21.46
	64QAM	1	0	23.42	22.91	22.89	20.01	19.72	20.13	22.62	23.90	22.93	19.45	19.56	19.88
		1	1	24.59	24.50	23.94	20.54	20.71	20.59	24.12	24.46	24.25	20.70	20.39	21.11
		1	243	24.11	24.80	24.60	20.78	21.77	21.47	23.82	23.92	23.50	20.46	21.42	21.28
		1	244	23.31	23.81	23.35	20.11	20.87	20.10	22.17	23.26	22.64	19.07	20.32	19.80
		120	60	24.51	25.13	24.92	21.11	21.67	21.41	24.15	24.07	24.06	20.47	21.33	20.91
		243	0	24.31	24.99	24.84	21.12	21.50	21.35	24.19	24.18	24.05	20.41	21.21	20.96
	256QAM	1	0	22.90	22.39	22.48	18.23	18.86	19.33	22.03	22.51	22.14	18.51	18.75	19.02
		1	1	22.76	22.74	22.55	18.71	18.77	19.20	22.25	22.64	22.25	18.39	18.57	19.13
		1	243	22.28	23.63	22.81	18.72	19.55	18.97	22.45	22.14	21.65	18.29	19.17	18.53
		1	244	22.34	22.98	22.88	18.95	19.41	19.35	21.62	22.47	21.47	18.50	19.33	18.52
		120	60	22.49	23.07	22.89	19.00	19.67	19.39	22.11	22.18	22.06	18.54	19.31	18.98
		243	0	22.36	23.01	22.87	19.05	19.51	19.31	22.15	22.16	22.02	18.42	19.14	18.95

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	23.05	23.62	23.78	19.99	19.57	19.97	23.56	23.73	23.36	20.59	20.71	21.02
		1	1	26.65	26.87	27.30	23.39	22.82	23.86	27.07	27.20	26.94	22.86	22.92	23.41
		1	271	26.54	27.57	27.54	23.53	24.20	23.84	26.56	27.03	25.99	22.78	23.67	23.23
		1	272	23.15	23.99	23.61	19.78	20.57	20.23	22.93	23.19	22.74	20.48	21.18	20.88
		135	67	27.03	27.70	24.62	23.41	24.03	23.86	26.87	26.90	27.06	22.93	23.70	23.40
		270	0	26.49	27.07	26.95	22.92	23.35	23.29	26.33	26.48	26.25	22.81	23.52	23.38
		1	0	22.96	23.25	23.74	20.02	19.66	20.16	23.50	23.59	23.35	20.80	20.82	21.03
		1	1	26.50	26.88	27.33	23.56	23.23	23.92	27.12	27.02	26.70	22.88	22.83	23.31
		1	271	26.92	27.47	27.25	23.30	24.16	23.79	26.40	27.15	26.33	22.74	23.68	23.40
		1	272	22.98	23.86	23.70	19.93	20.68	20.46	22.95	23.30	22.83	20.52	21.53	21.19
		135	67	26.00	27.67	27.59	23.44	23.98	23.82	26.81	26.89	26.93	22.84	23.67	23.36
		270	0	26.00	26.53	26.49	22.40	22.88	22.82	25.77	25.95	25.80	22.82	23.52	23.30
	1	0	22.62	23.33	23.91	20.00	19.54	20.08	23.17	23.14	22.98	19.57	19.41	19.63	
	1	1	24.95	25.77	26.12	22.32	22.36	22.60	25.89	26.20	25.63	21.90	21.54	21.96	
	1	271	25.69	26.48	26.37	22.35	23.05	22.62	25.45	26.07	25.30	21.55	22.27	22.37	
	1	272	22.90	24.05	23.95	19.77	20.60	20.15	22.49	23.18	22.61	19.41	20.28	19.81	
	135	67	26.07	26.58	26.47	22.46	22.99	22.77	25.84	25.81	26.00	21.83	22.67	22.44	
	270	0	25.00	25.54	25.54	21.43	21.88	21.81	24.59	24.99	24.75	21.12	21.81	21.69	
	1	0	22.59	23.23	23.57	19.68	19.66	20.27	23.37	23.47	22.94	19.34	20.07	20.35	
	1	1	23.77	24.49	24.87	20.76	20.68	20.91	24.53	24.90	24.48	20.73	20.94	20.75	
	1	271	24.51	24.93	24.79	20.49	21.52	21.32	24.38	24.64	23.87	20.92	21.69	20.58	
	1	272	23.16	23.87	23.56	19.81	20.59	19.95	23.20	23.00	22.72	19.82	20.46	20.09	
	135	67	24.50	25.10	25.05	21.00	21.46	21.28	24.29	24.37	24.46	20.66	21.48	21.16	
	270	0	24.50	25.01	25.02	20.92	21.37	21.26	24.14	24.49	24.23	20.63	21.38	21.21	
	1	0	22.08	22.43	23.01	18.90	18.39	18.92	22.83	22.89	22.57	18.25	18.15	18.78	
	1	1	21.80	22.59	22.90	18.48	18.60	18.92	23.04	23.10	22.52	18.76	18.78	18.91	
	1	271	20.88	23.10	22.62	18.41	19.11	18.65	22.52	22.81	21.85	18.66	19.24	18.62	
	1	272	21.94	23.12	22.99	18.72	19.36	19.39	22.35	22.69	22.18	18.39	18.69	18.87	
	135	67	22.55	23.23	23.07	18.93	19.50	19.33	22.32	22.45	22.43	18.68	19.49	19.20	
	270	0	22.46	23.01	23.02	18.97	19.31	19.24	22.18	22.05	22.23	18.63	19.43	19.12	

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

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

RESULTS

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

5G NR n5

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n5	5MHz, BPSK	25/0	836.5	4.459	4.87
	5MHz, QPSK			4.469	4.83
	5MHz, 16QAM			4.482	4.85
	10MHz, BPSK	50/0		8.949	9.39
	10MHz, QPSK			8.941	9.45
	10MHz, 16QAM			8.923	9.43
	15MHz, BPSK	75/0		13.403	14.33
	15MHz, QPSK			13.386	14.27
	15MHz, 16QAM			13.364	14.22
	20MHz, BPSK	100/0		17.872	18.82
	20MHz, QPSK			17.855	18.91
	20MHz, 16QAM			17.781	18.76
	20MHz, BPSK	1/0		0.289	0.506

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	4.501	4.96
	5MHz, 16QAM			4.497	4.91
	10MHz, QPSK	50/0		8.955	9.77
	10MHz, 16QAM			8.937	9.65
	15MHz, QPSK	75/0		13.401	14.41
	15MHz, 16QAM			13.440	14.49
	20MHz, QPSK	100/0		17.864	19.22
	20MHz, 16QAM			17.890	19.26
	20MHz, QPSK	1/0		0.271	0.456

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	4.470	4.86
	5MHz, QPSK			4.468	4.86
	5MHz, 16QAM			4.485	4.91
	10MHz, BPSK	50/0		8.939	9.58
	10MHz, QPSK			8.910	9.50
	10MHz, 16QAM			8.942	9.44
	15MHz, BPSK	75/0		13.409	14.11
	15MHz, QPSK			13.406	14.23
	15MHz, 16QAM			13.421	14.26
	20MHz, BPSK	100/0		17.851	18.87
	20MHz, QPSK			17.874	18.93
	20MHz, 16QAM			17.819	18.83
	25MHz, BPSK	128/0		22.845	23.97
	25MHz, QPSK			22.831	24.01
	25MHz, 16QAM			22.850	23.99
	30MHz, BPSK	160/0		28.563	29.89
	30MHz, QPSK			28.519	29.86
	30MHz, 16QAM			28.485	29.76
	40MHz, BPSK	216/0		38.625	40.27
	40MHz, QPSK			38.514	40.28
40MHz, 16QAM	38.499		40.24		
40MHz, BPSK	1/0	0.240	0.457		

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	1.090	1.23
	1.4MHz, 16QAM			1.079	1.23
	3MHz, QPSK	15/0		2.689	2.96
	3MHz, 16QAM			2.680	2.97
	5MHz, QPSK	25/0		4.493	4.95
	5MHz, 16QAM			4.497	4.90
	10MHz, QPSK	50/0		8.960	9.72
	10MHz, 16QAM			8.920	9.71
	10MHz, QPSK	1/0		0.236	0.416

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	4.443	4.75
	5MHz, QPSK			4.468	4.76
	5MHz, 16QAM			4.479	4.78
	10MHz, BPSK	50/0		8.949	9.32
	10MHz, QPSK			8.952	9.45
	10MHz, 16QAM			8.949	9.32
	15MHz, BPSK	75/0		13.389	14.25
	15MHz, QPSK			13.406	14.27
	15MHz, 16QAM			13.378	14.21
	15MHz, BPSK	1/0		0.276	0.46

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	4.513	4.89
	5MHz, 16QAM			4.493	4.90
	10MHz, QPSK	50/0		8.943	9.70
	10MHz, 16QAM			8.925	9.67
	10MHz, QPSK	1/0		0.240	0.408

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	4.505	4.91
	5MHz, 16QAM			4.494	4.91
	10MHz, QPSK	50/0		8.948	9.74
	10MHz, 16QAM			8.934	9.64
	10MHz, QPSK	1/0		0.224	0.374

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	4.524	4.96
	5MHz, 16QAM			4.485	4.92
	10MHz, QPSK	50/0		8.968	9.71
	10MHz, 16QAM			8.940	9.61
	10MHz, QPSK	1/0		0.233	0.394

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	1.093	1.24
	1.4MHz, 16QAM			1.079	1.23
	3MHz, QPSK	15/0		2.693	2.97
	3MHz, 16QAM			2.687	2.96
	5MHz, QPSK	25/0		4.505	4.91
	5MHz, 16QAM			4.489	4.94
	10MHz, QPSK	50/0		8.979	9.78
	10MHz, 16QAM			8.933	9.64
	15MHz, QPSK	75/0		13.416	14.53
	15MHz, 16QAM			13.412	14.49
	20MHz, QPSK	100/0		17.888	19.20
	20MHz, 16QAM			17.908	19.16
	20MHz, QPSK	1/0		0.261	0.415

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	4.490	4.90
	5MHz, QPSK			4.486	4.77
	5MHz, 16QAM			4.498	4.79
	10MHz, BPSK	50/0		8.949	9.46
	10MHz, QPSK			8.975	9.48
	10MHz, 16QAM			8.976	9.54
	15MHz, BPSK	75/0		13.455	14.12
	15MHz, QPSK			13.444	14.22
	15MHz, 16QAM			13.409	14.12
	20MHz, BPSK	100/0		17.977	20.59
	20MHz, QPSK			17.931	18.74
	20MHz, 16QAM			17.875	18.72
	25MHz, BPSK	128/0		22.817	23.93
	25MHz, QPSK			22.869	24.06
	25MHz, 16QAM			22.825	23.97
	30MHz, BPSK	160/0		28.517	29.80
	30MHz, QPSK			28.487	29.89
	30MHz, 16QAM			28.602	29.88
	40MHz, BPSK	216/0		38.464	40.23
	40MHz, QPSK			38.630	40.35
40MHz, 16QAM	38.529		40.33		
40MHz, BPSK	1/0	0.368	0.608		

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	1.080	1.20
	1.4MHz, 16QAM			1.076	1.19
	3MHz, QPSK	15/0		2.691	2.90
	3MHz, 16QAM			2.674	2.88
	5MHz, QPSK	25/0		4.482	4.80
	5MHz, 16QAM			4.474	4.83
	10MHz, QPSK	50/0		8.957	9.76
	10MHz, 16QAM			8.944	9.65
	10MHz, QPSK	1/0		0.242	0.402

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	1.083	1.19
	1.4MHz, 16QAM			1.090	1.23
	3MHz, QPSK	15/0		2.695	2.94
	3MHz, 16QAM			2.676	2.93
	5MHz, QPSK	25/0		4.474	4.86
	5MHz, 16QAM			4.488	4.89
	10MHz, QPSK	50/0		8.966	9.64
	10MHz, 16QAM			8.957	9.39

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	4.498	4.93
	5MHz, 16QAM			4.481	4.85
	10MHz, QPSK	50/0		8.947	9.60
	10MHz, 16QAM			8.953	9.72
	10MHz, QPSK	1/0		0.241	0.382

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	4.516	5.00
	5MHz, QPSK			4.490	4.93
	5MHz, 16QAM			4.491	4.93
	10MHz, BPSK	50/0		8.952	9.53
	10MHz, QPSK			8.935	9.57
	10MHz, 16QAM			8.961	9.50
	10MHz, BPSK	1/0		0.256	0.428

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	4.493	4.91
	5MHz, 16QAM			4.484	4.81
	10MHz, QPSK	50/0		8.944	9.58
	10MHz, 16QAM			8.930	9.46
	15MHz, QPSK	75/0		13.417	14.47
	15MHz, 16QAM			13.435	14.20
	20MHz, QPSK	100/0		17.900	19.02
	20MHz, 16QAM			17.842	19.11
	20MHz, QPSK	1/0		0.255	0.451

5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41 (FCC)	20MHz, BPSK	50/0	2593.0	17.830	19.25
	20MHz, QPSK			17.875	19.21
	20MHz, 16QAM			17.804	19.24
	30MHz, BPSK	75/0		26.781	28.34
	30MHz, QPSK			26.817	28.43
	30MHz, 16QAM			26.835	28.51
	40MHz, BPSK	100/0		35.699	37.60
	40MHz, QPSK			35.825	37.77
	40MHz, 16QAM			35.679	37.62
	50MHz, BPSK	128/0		45.791	47.99
	50MHz, QPSK			45.700	48.03
	50MHz, 16QAM			45.797	48.08
	60MHz, BPSK	162/0		57.907	60.42
	60MHz, QPSK			57.962	60.54
	60MHz, 16QAM			57.826	60.47
	80MHz, BPSK	216/0		77.061	80.48
	80MHz, QPSK			77.051	80.45
	80MHz, 16QAM			77.216	80.56
	90MHz, BPSK	243/0		86.999	90.39
	90MHz, QPSK			87.067	90.48
90MHz, 16QAM	87.120		90.39		
100MHz, BPSK	270/0	96.936	100.70		
100MHz, QPSK		96.875	100.60		
100MHz, 16QAM		96.634	100.60		
100MHz, QPSK	1/0	0.598	1.102		

LTE BAND 48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 48	5MHz, QPSK	25/0	3625.0	4.477	4.79
	5MHz, 16QAM			4.480	4.73
	10MHz, QPSK	50/0		8.917	9.33
	10MHz, 16QAM			8.924	9.36
	15MHz, QPSK	75/0		13.412	14.02
	15MHz, 16QAM			13.469	14.14
	20MHz, QPSK	100/0		17.835	18.89
	20MHz, 16QAM			17.832	19.05
	20MHz, QPSK	1/0		0.294	0.432

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	1.080	1.20
	1.4MHz, 16QAM			1.080	1.20
	3MHz, QPSK	15/0		2.685	2.92
	3MHz, 16QAM			2.686	2.94
	5MHz, QPSK	25/0		4.496	4.89
	5MHz, 16QAM			4.483	4.93
	10MHz, QPSK	50/0		8.960	9.71
	10MHz, 16QAM			8.999	9.76
	15MHz, QPSK	75/0		13.425	14.47
	15MHz, 16QAM			13.402	14.43
	20MHz, QPSK	100/0		17.817	19.08
	20MHz, 16QAM			17.845	19.10
	20MHz, QPSK	1/0		0.271	0.460

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	4.497	4.95
	5MHz, QPSK			4.494	4.94
	5MHz, 16QAM			4.484	4.93
	10MHz, BPSK	50/0		8.915	9.57
	10MHz, QPSK			8.922	9.53
	10MHz, 16QAM			8.960	9.65
	15MHz, BPSK	75/0		13.390	14.26
	15MHz, QPSK			13.455	14.25
	15MHz, 16QAM			13.450	14.29
	20MHz, BPSK	100/0		17.921	18.89
	20MHz, QPSK			17.901	18.90
	20MHz, 16QAM			17.915	18.87
	30MHz, BPSK	160/0		28.492	29.78
	30MHz, QPSK			28.438	29.90
	30MHz, 16QAM			28.561	29.87
	40MHz, BPSK	216/0		38.440	40.22
	40MHz, QPSK			38.573	40.37
	40MHz, 16QAM			38.451	40.28
40MHz, QPSK	1/0	0.352	0.558		

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	4.500	4.88	
	5MHz, 16QAM			4.494	4.94	
	10MHz, QPSK	50/0		8.933	9.78	
	10MHz, 16QAM			8.966	9.65	
	15MHz, QPSK	75/0		13.423	14.49	
	15MHz, 16QAM			13.406	14.40	
	20MHz, QPSK	100/0		17.860	19.28	
	20MHz, 16QAM			17.871	19.12	
	20MHz, QPSK	1/0		680.5	0.277	0.425

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	4.487	4.970
	5MHz, QPSK			4.477	4.930
	5MHz, 16QAM			4.479	4.940
	10MHz, BPSK	50/0	683	8.903	9.585
	10MHz, QPSK			8.975	9.587
	10MHz, 16QAM			8.880	9.625
	15MHz, BPSK	75/0	680.5	13.389	14.161
	15MHz, QPSK			13.369	14.180
	15MHz, 16QAM			13.388	14.140
	20MHz, BPSK	100/0	683	17.820	18.810
	20MHz, QPSK			17.899	18.960
	20MHz, 16QAM			17.883	18.860
	20MHz, QPSK			1/0	680.5

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)	20MHz, BPSK	50/0	3500.0	17.859	18.99
	20MHz, QPSK			17.896	18.96
	20MHz, 16QAM			17.877	18.77
	30MHz, BPSK	75/0		26.769	28.37
	30MHz, QPSK			26.705	27.95
	30MHz, 16QAM			26.768	28.02
	40MHz, BPSK	100/0		35.724	37.61
	40MHz, QPSK			35.762	37.69
	40MHz, 16QAM			35.768	39.54
	50MHz, BPSK	128/0		45.601	47.76
	50MHz, QPSK			45.616	47.70
	50MHz, 16QAM			45.572	47.62
	60MHz, BPSK	162/0		57.749	60.30
	60MHz, QPSK			57.849	60.11
	60MHz, 16QAM			57.849	60.11
	70MHz, BPSK	180/0		63.992	66.88
	70MHz, QPSK			63.963	66.96
	70MHz, 16QAM			63.963	66.96
	80MHz, BPSK	216/0		77.158	80.26
	80MHz, QPSK			77.021	80.31
	80MHz, 16QAM			77.237	80.20
	90MHz, BPSK	243/0		86.590	90.16
	90MHz, QPSK			86.862	90.35
	90MHz, 16QAM			86.541	90.11
100MHz, BPSK	270/0	96.180	100.30		
100MHz, QPSK		96.138	100.30		
100MHz, 16QAM		96.423	100.10		
100MHz, QPSK	1/0	0.598	1.121		

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)	20MHz, BPSK	50/0	3840.0	17.878	19.06
	20MHz, QPSK			17.833	19.02
	20MHz, 16QAM			17.912	19.07
	30MHz, BPSK	75/0		26.741	28.18
	30MHz, QPSK			26.860	28.44
	30MHz, 16QAM			26.815	28.30
	40MHz, BPSK	100/0		35.678	37.35
	40MHz, QPSK			35.773	37.54
	40MHz, 16QAM			35.765	37.39
	50MHz, BPSK	128/0		45.612	47.59
	50MHz, QPSK			45.555	47.76
	50MHz, 16QAM			45.646	47.58
	60MHz, BPSK	162/0		57.762	60.36
	60MHz, QPSK			57.901	60.36
	60MHz, 16QAM			57.828	60.14
	70MHz, BPSK	180/0		64.184	66.92
	70MHz, QPSK			64.458	66.93
	70MHz, 16QAM			64.237	66.93
	80MHz, BPSK	216/0		77.194	80.44
	80MHz, QPSK			77.007	80.36
	80MHz, 16QAM			77.198	80.39
	90MHz, BPSK	243/0		86.683	89.98
	90MHz, QPSK			86.693	90.33
	90MHz, 16QAM			86.720	90.23
100MHz, BPSK	270/0	96.275	100.30		
100MHz, QPSK		96.241	100.40		
100MHz, 16QAM		96.294	100.20		
100MHz, QPSK	1/0	0.597	1.085		

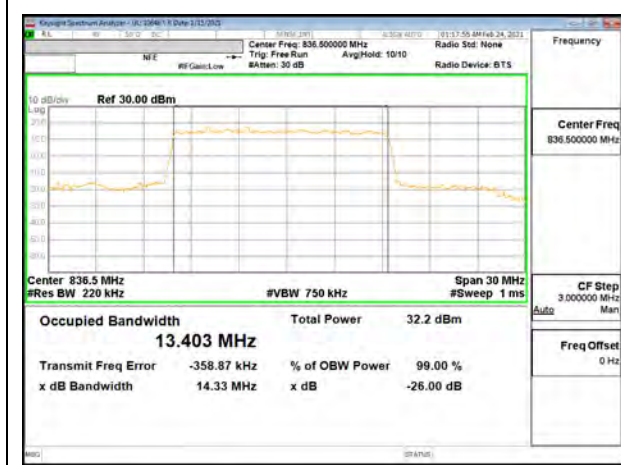
9.1.1. 5G NR n5



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



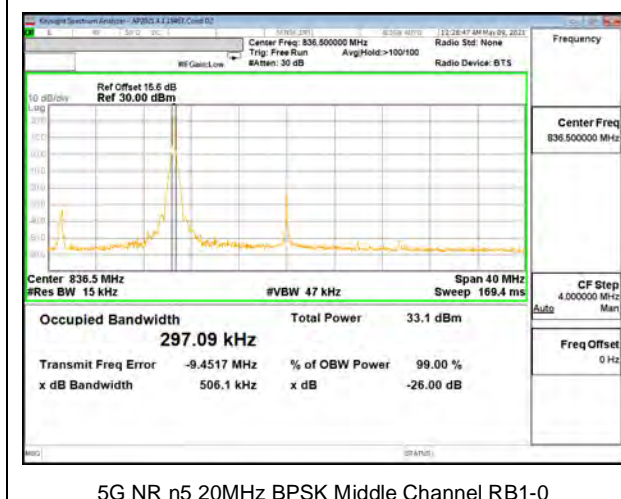
5G NR n5 10MHz BPSK Middle Channel RB50-0



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



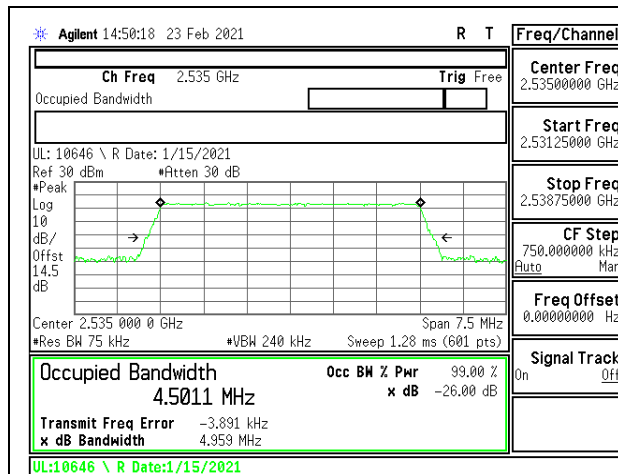
5G NR n5 20MHz BPSK Middle Channel RB100-0



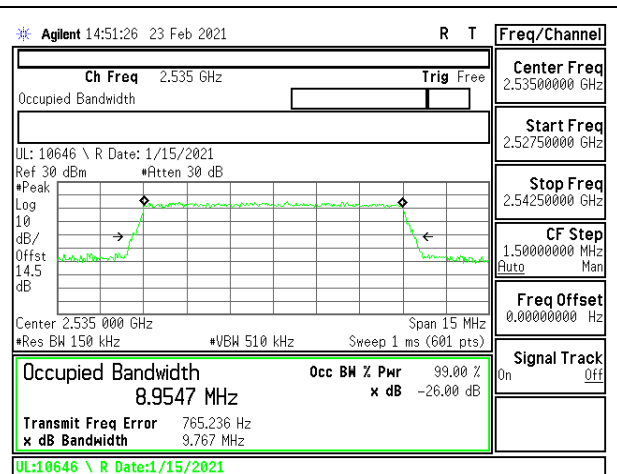
5G NR n5 20MHz BPSK Middle Channel RB1-0

9.1.2. LTE BAND 7 AND 5G NR n7

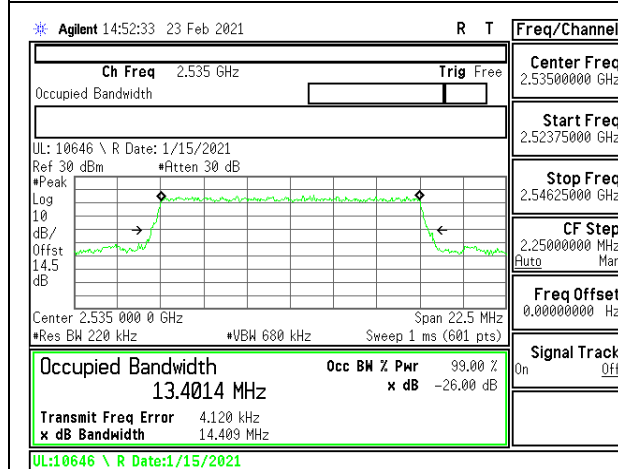
LTE BAND 7



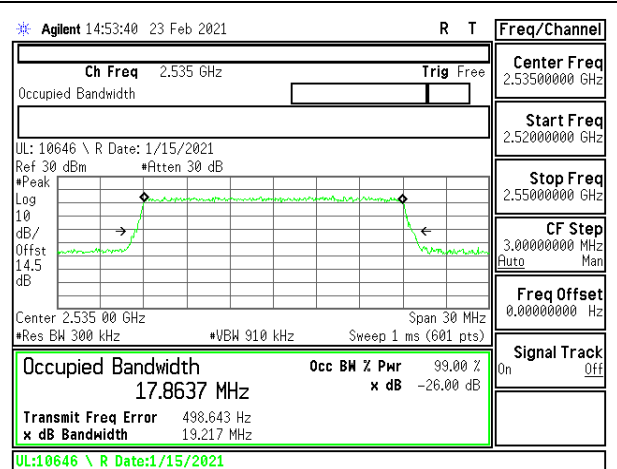
LTE B7 5MHz QPSK Middle Channel RB25-0



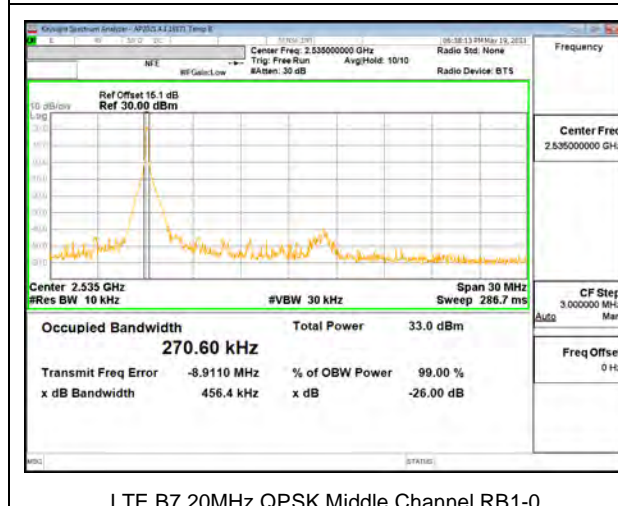
LTE B7 10MHz QPSK Middle Channel RB50-0



LTE B7 15MHz QPSK Middle Channel RB75-0



LTE B7 20MHz QPSK Middle Channel RB100-0



LTE B7 20MHz QPSK Middle Channel RB1-0

5G NR n7



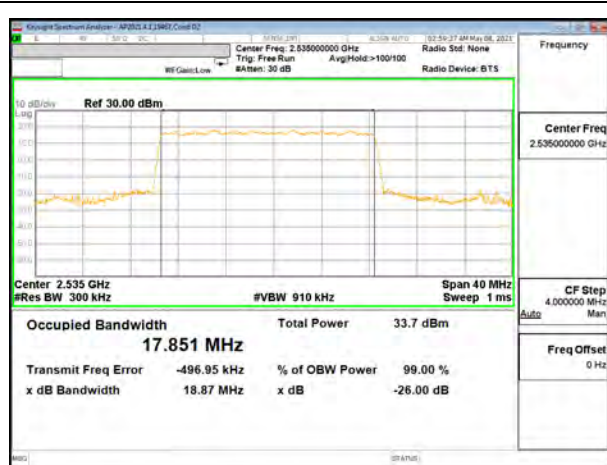
5G NR n7 5MHz BPSK Middle Channel RB25-0



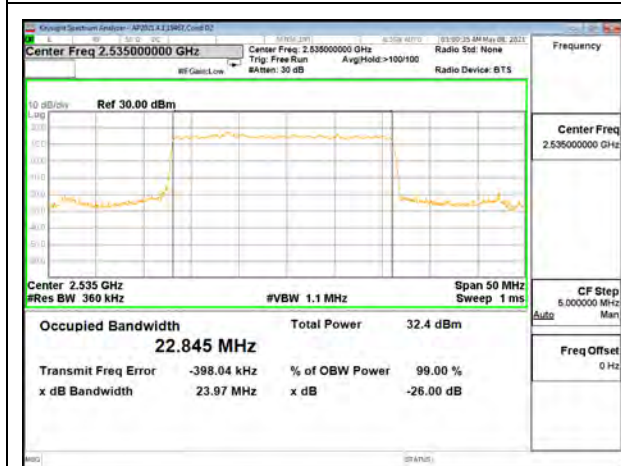
5G NR n7 10MHz BPSK Middle Channel RB50-0



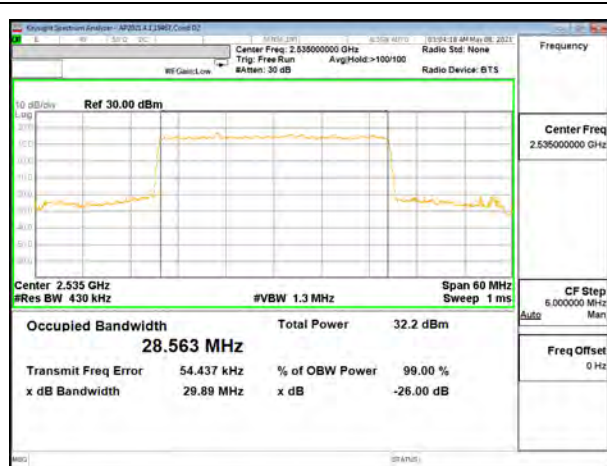
5G NR n7 15MHz BPSK Middle Channel RB75-0



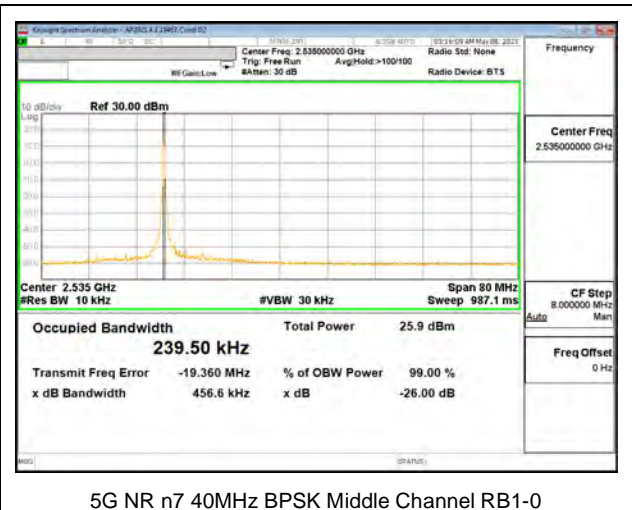
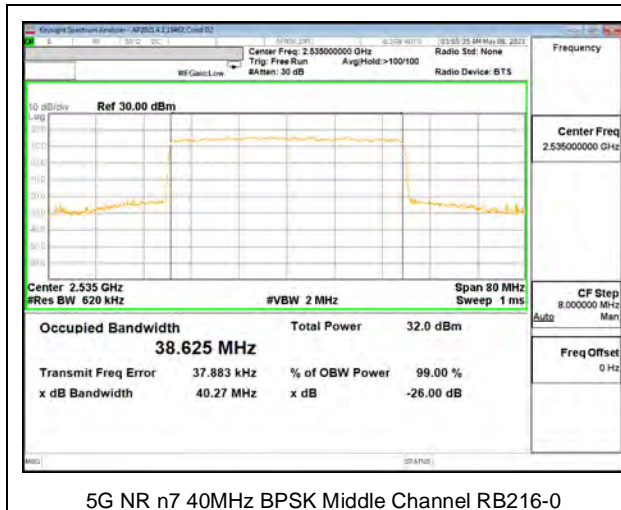
5G NR n7 20MHz BPSK Middle Channel RB100-0



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

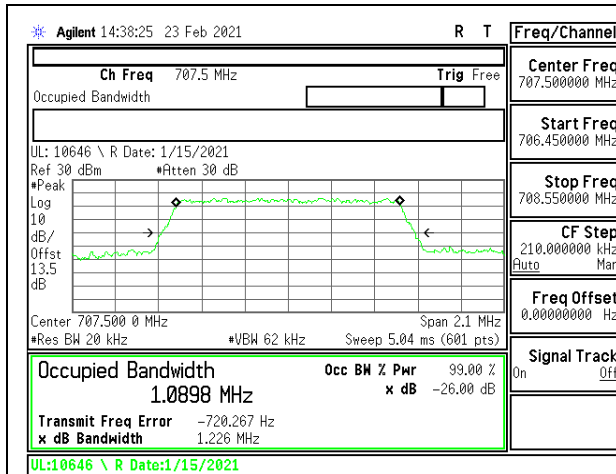


5G NR n7 30MHz BPSK Middle Channel RB160-0

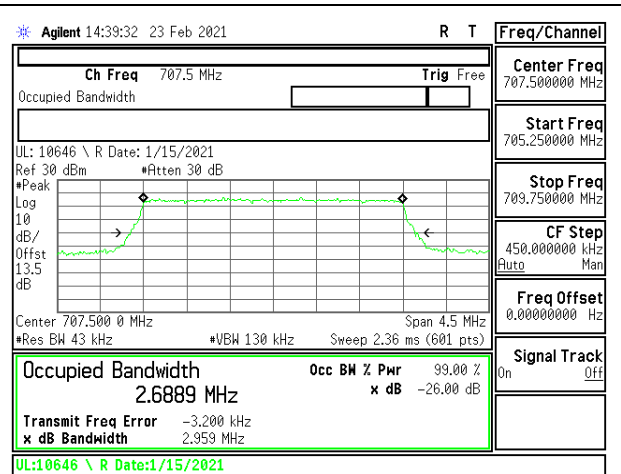


9.1.3. LTE BAND 12 AND 5G NR n12

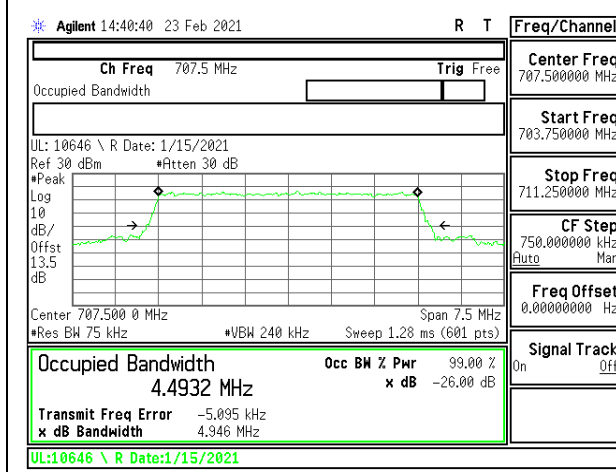
LTE BAND 12



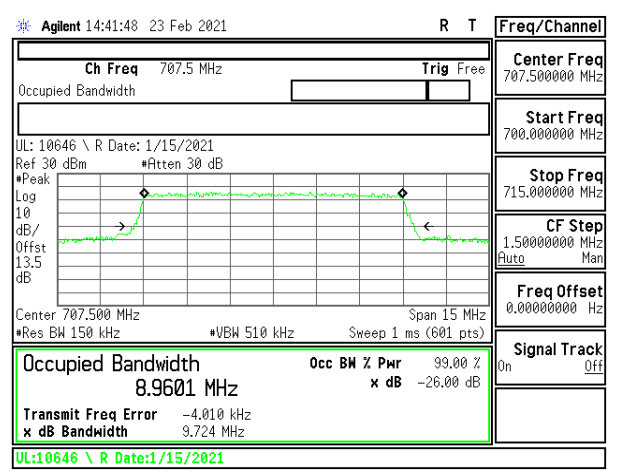
LTE B12 1.4MHz QPSK Middle Channel RB6-0



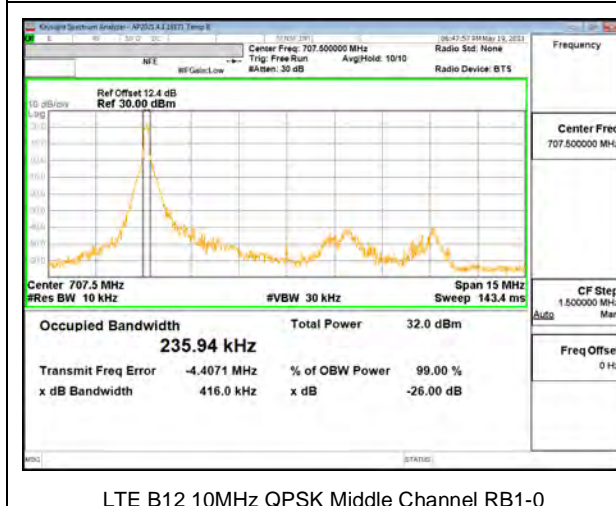
LTE B12 3MHz QPSK Middle Channel RB15-0



LTE B12 5MHz QPSK Middle Channel RB25-0



LTE B12 10MHz QPSK Middle Channel RB50-0



LTE B12 10MHz QPSK Middle Channel RB1-0

5G NR n12



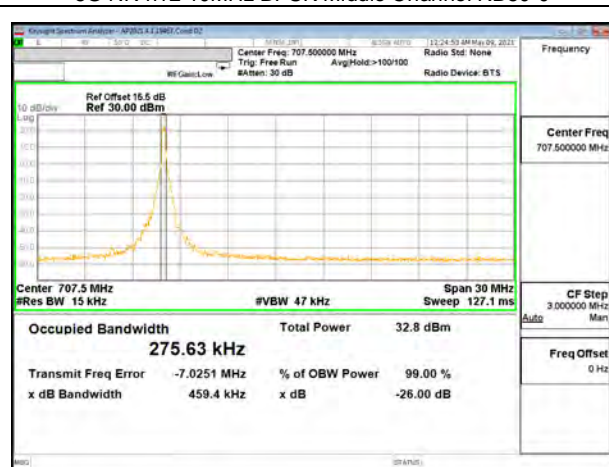
5G NR n12 5MHz BPSK Middle Channel RB25-0



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

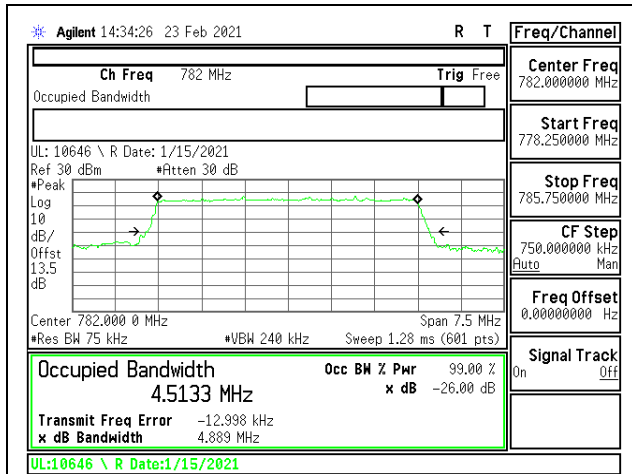


5G NR n12 15MHz BPSK Middle Channel RB75-0

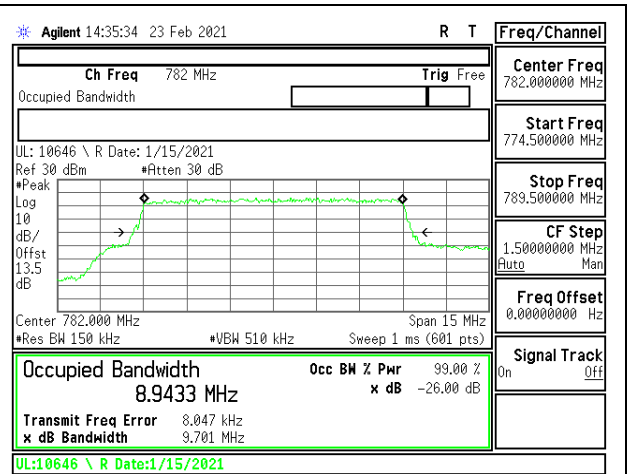


5G NR n12 15MHz BPSK Middle Channel RB1-0

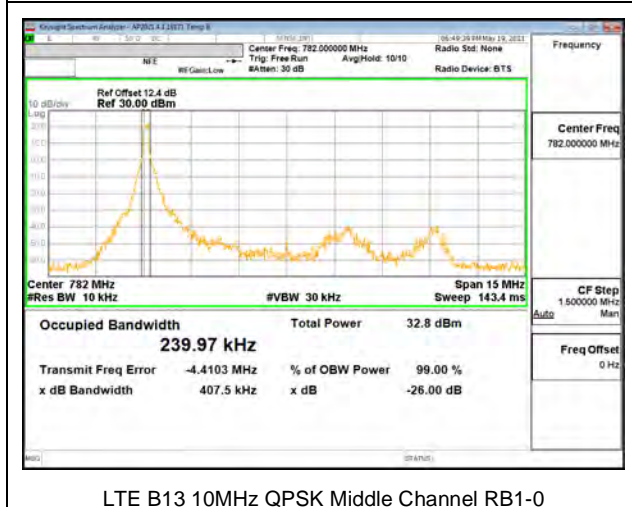
9.1.4. LTE BAND 13



LTE B13 5MHz QPSK Middle Channel RB25-0

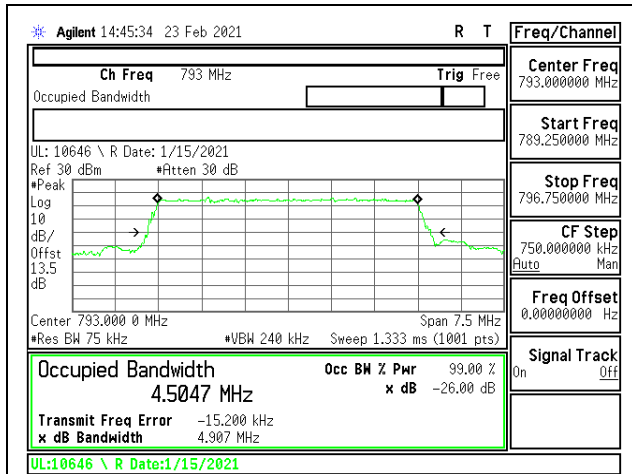


LTE B13 10MHz QPSK Middle Channel RB50-0

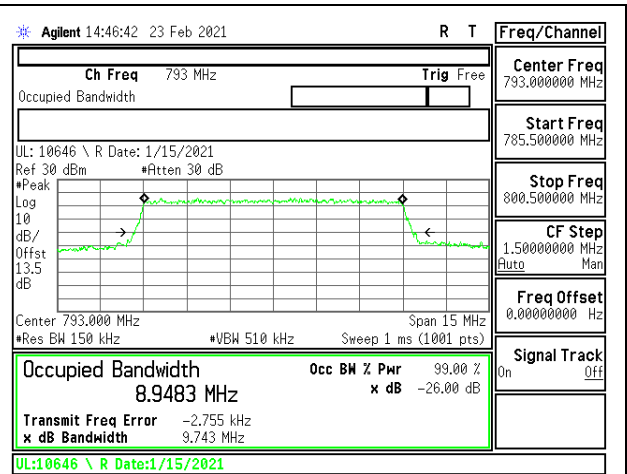


LTE B13 10MHz QPSK Middle Channel RB1-0

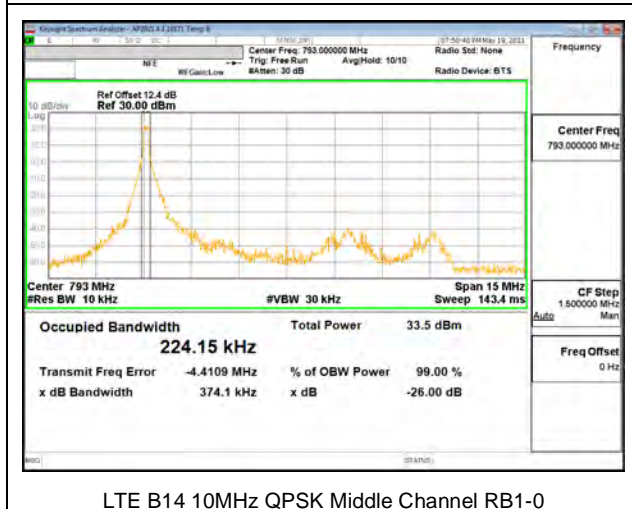
9.1.5. LTE BAND 14



LTE B14 5MHz QPSK Middle Channel RB25-0

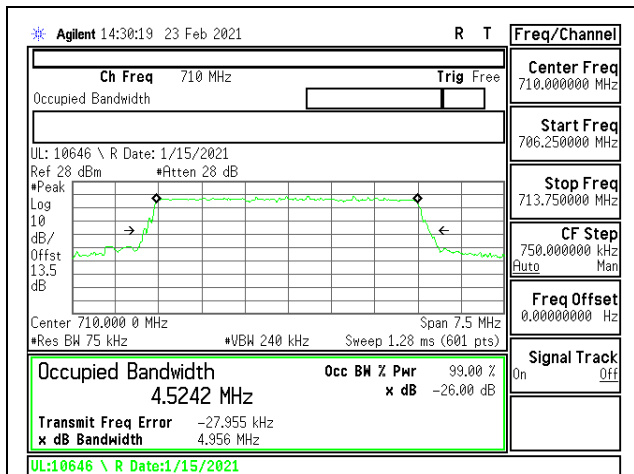


LTE B14 10MHz QPSK Middle Channel RB50-0

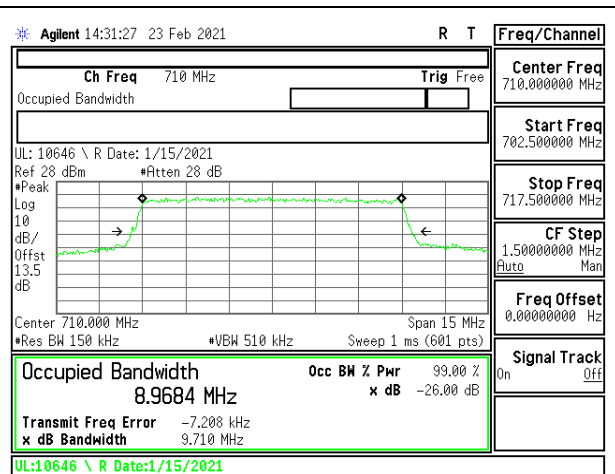


LTE B14 10MHz QPSK Middle Channel RB1-0

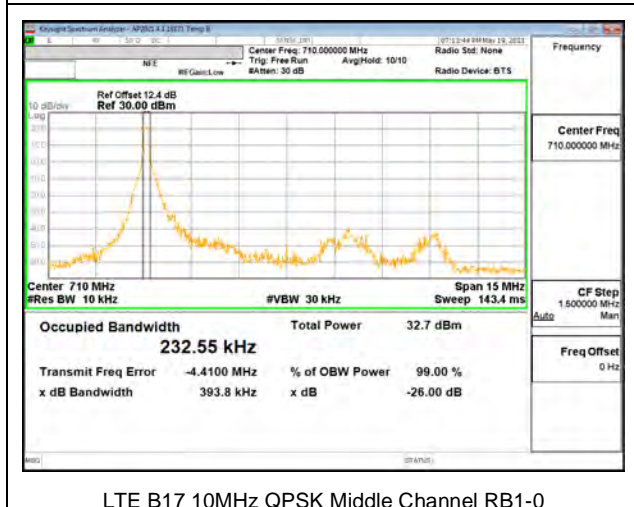
9.1.6. LTE BAND 17



LTE B17 5MHz QPSK Middle Channel RB25-0



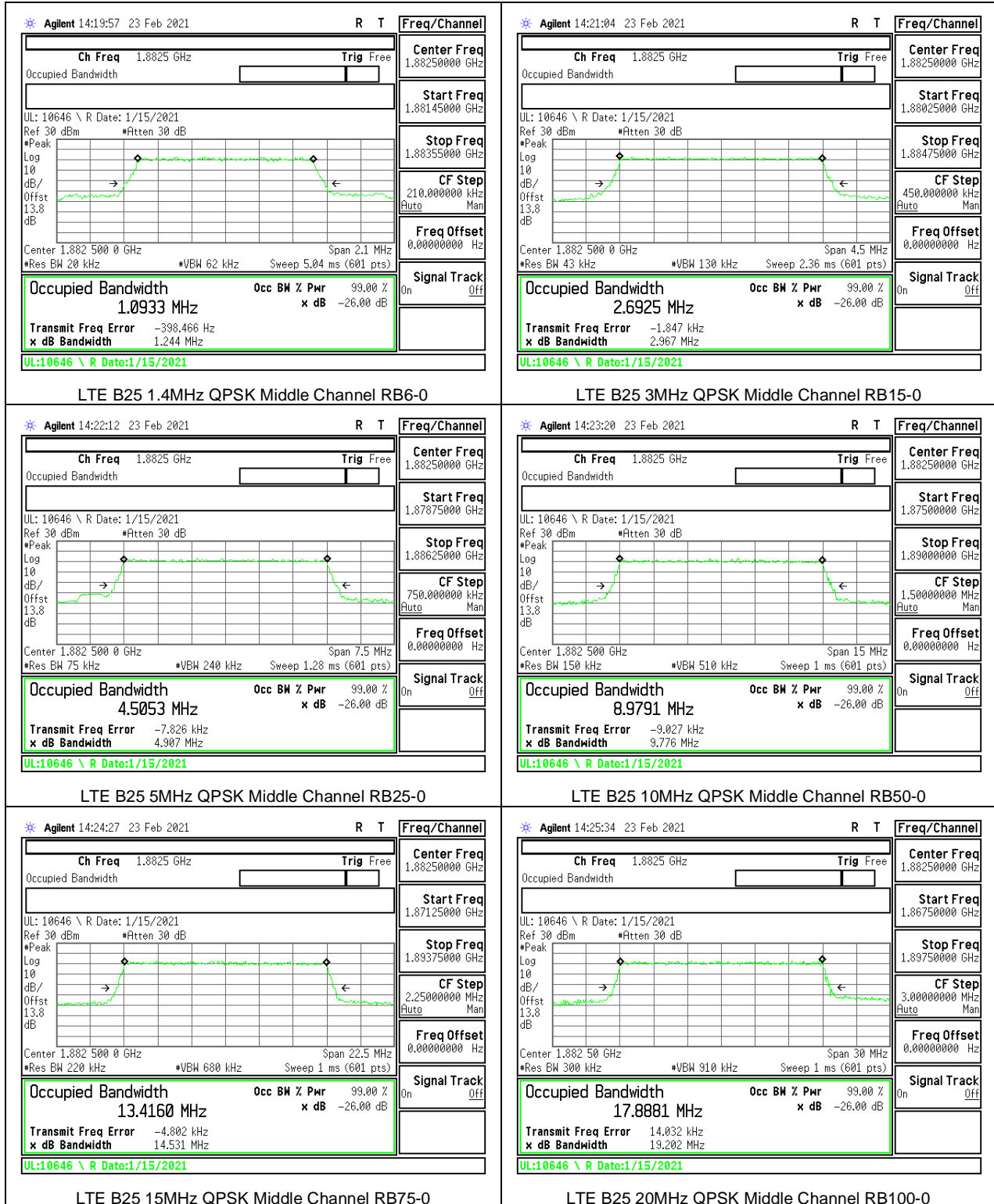
LTE B17 10MHz QPSK Middle Channel RB50-0

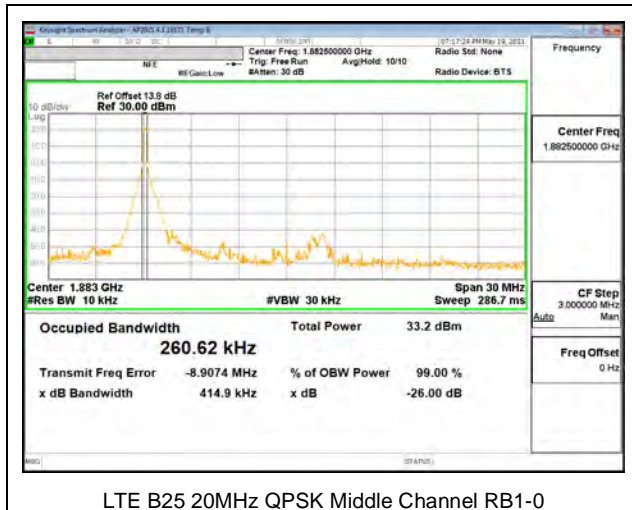


LTE B17 10MHz QPSK Middle Channel RB1-0

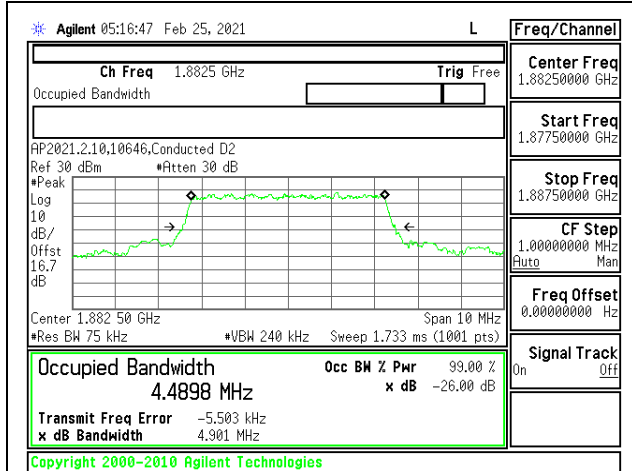
9.1.7. LTE BAND 25 AND 5G NR n25

LTE BAND 25

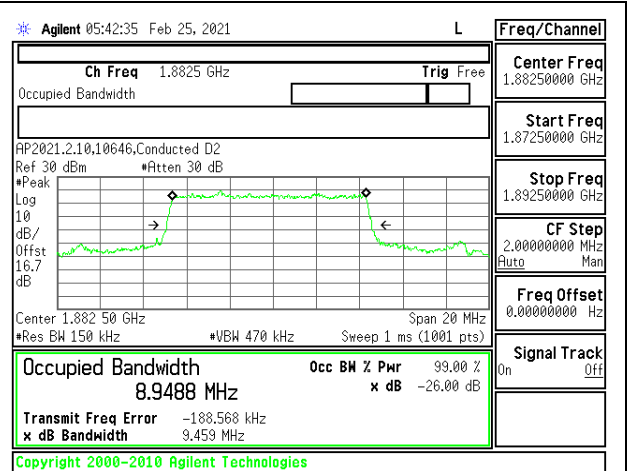




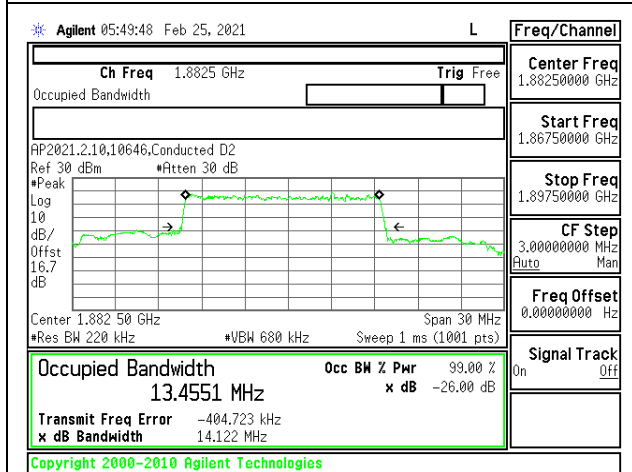
5G NR n25



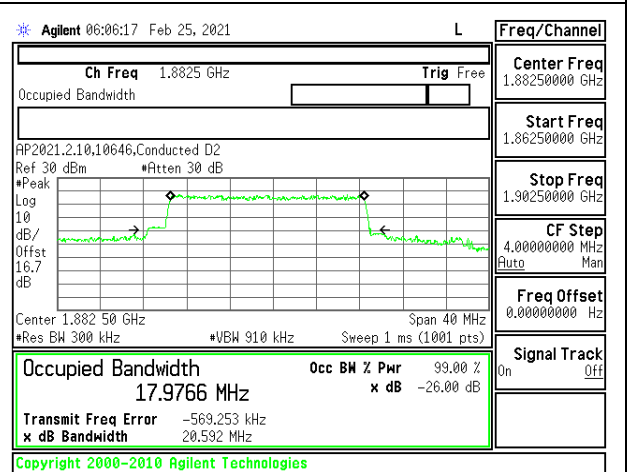
5G NR n25 5MHz BPSK Middle Channel RB25-0



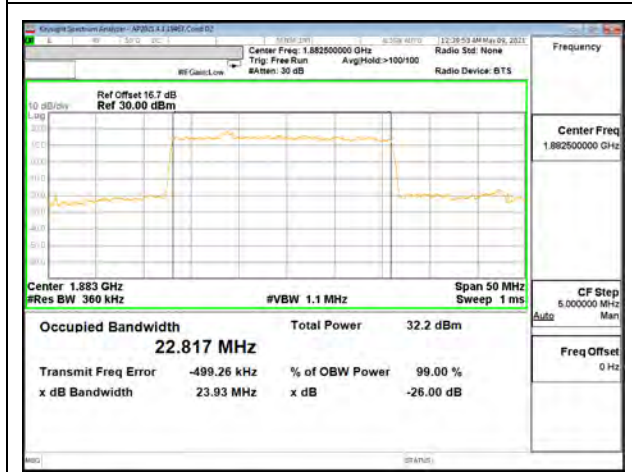
5G NR n25 10MHz BPSK Middle Channel RB50-0



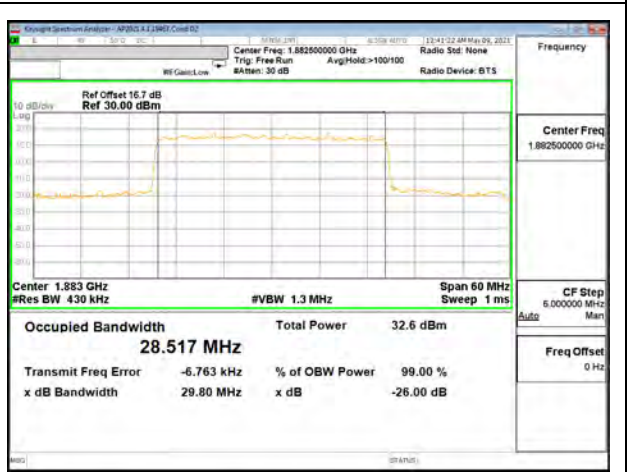
5G NR n25 15MHz BPSK Middle Channel RB75-0



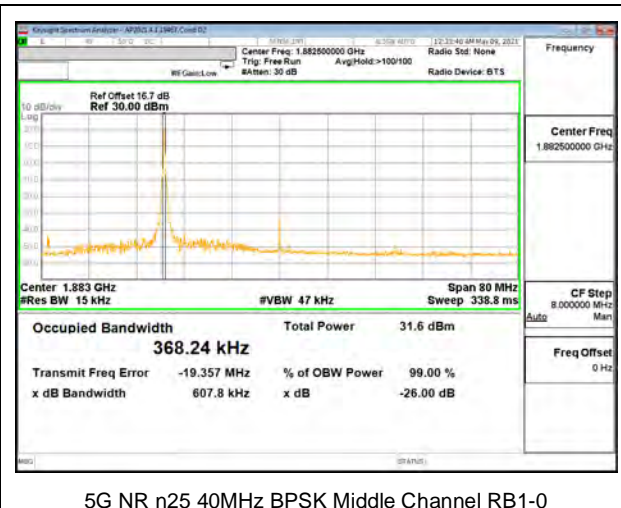
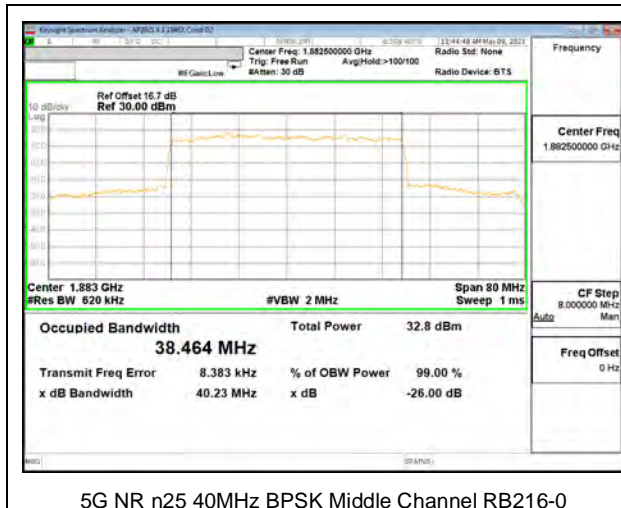
5G NR n25 20MHz BPSK Middle Channel RB100-0



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



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



9.1.8. LTE BAND 26 (FCC PART 90S)



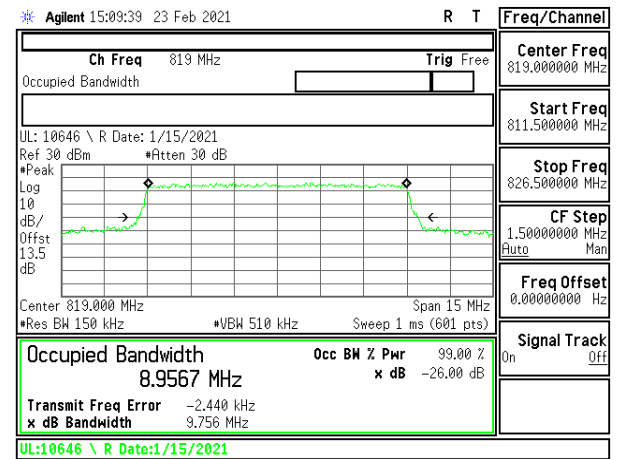
LTE B26 1.4MHz QPSK Middle Channel RB6-0



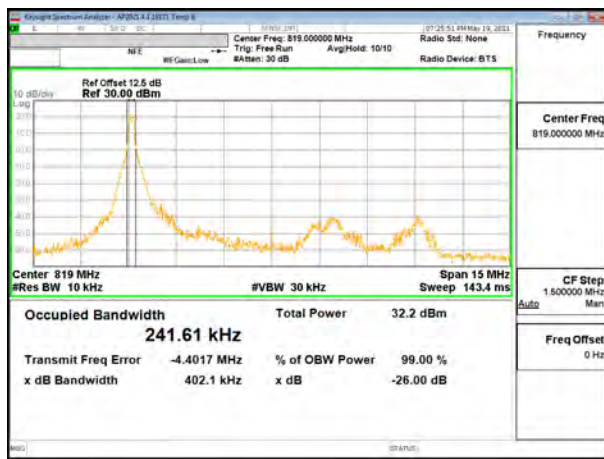
LTE B26 3MHz QPSK Middle Channel RB15-0



LTE B26 5MHz QPSK Middle Channel RB25-0



LTE B26 10MHz QPSK Middle Channel RB50-0



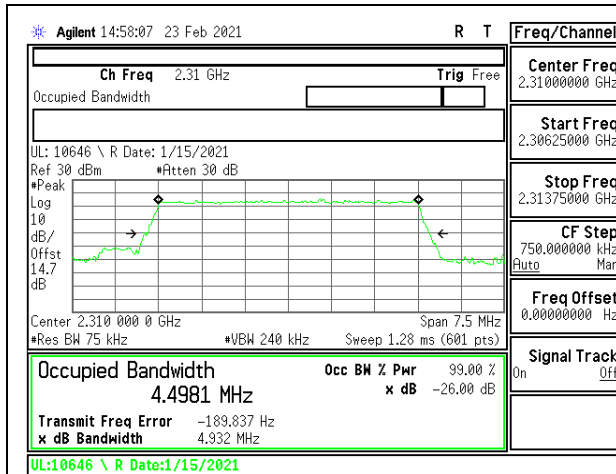
LTE B26 10MHz QPSK Middle Channel RB1-0

9.1.9. LTE BAND 26 (FCC PART 22)

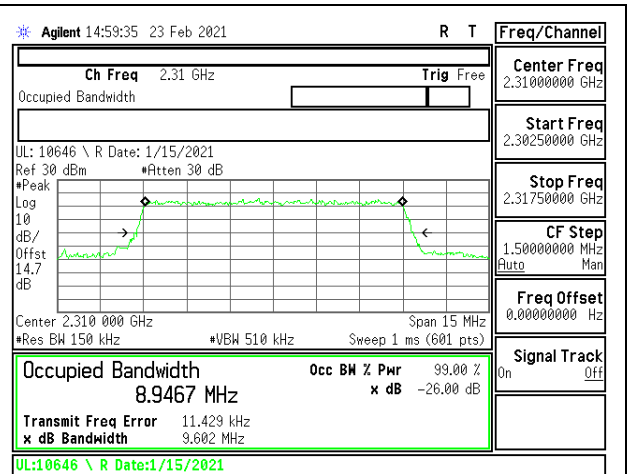


9.1.10. LTE BAND 30 AND 5G NR n30

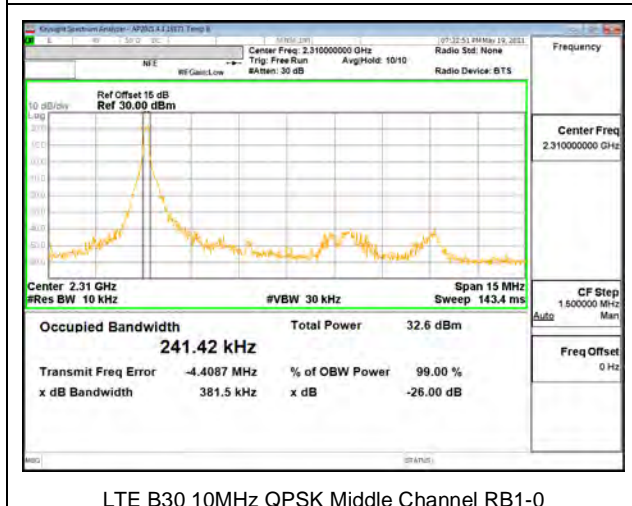
LTE BAND 30



LTE B30 5MHz QPSK Middle Channel RB25-0

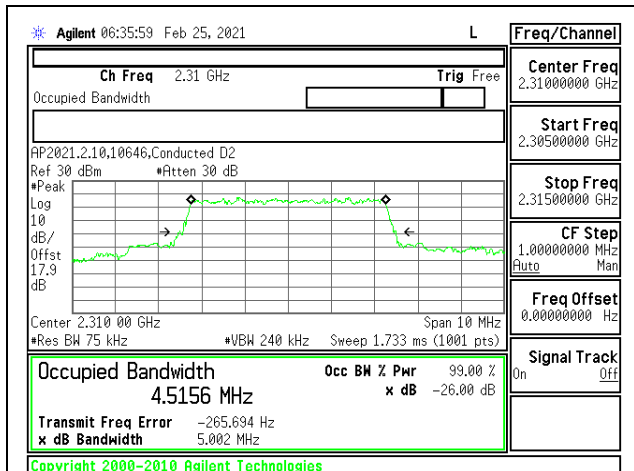


LTE B30 10MHz QPSK Middle Channel RB50-0

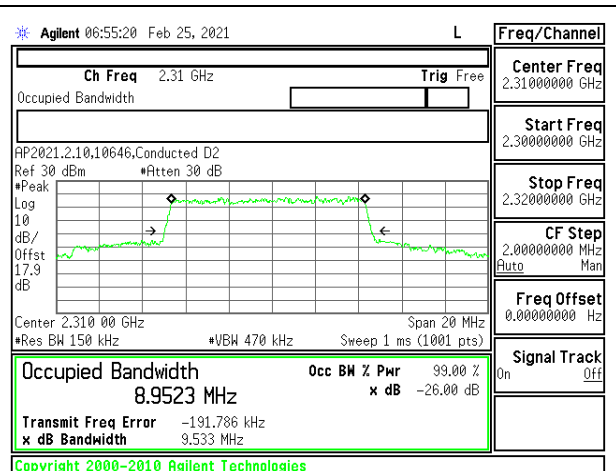


LTE B30 10MHz QPSK Middle Channel RB1-0

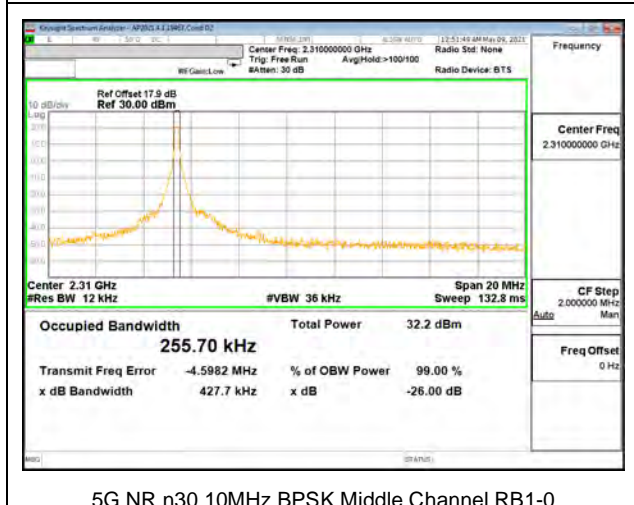
5G NR n30



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



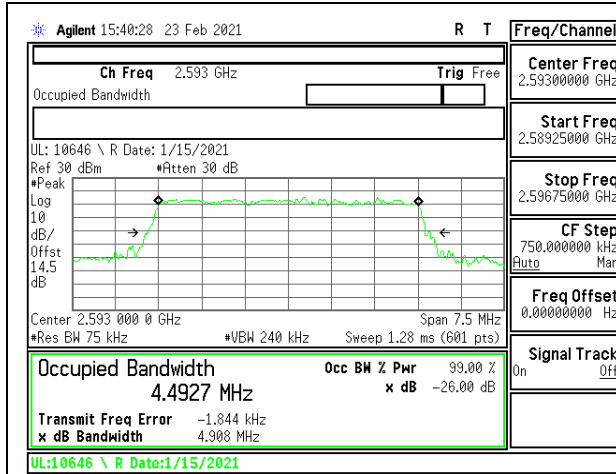
5G NR n30 10MHz BPSK Middle Channel RB50-0



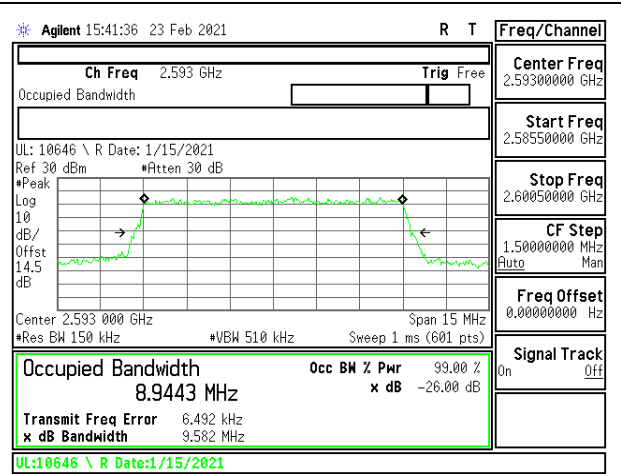
5G NR n30 10MHz BPSK Middle Channel RB1-0

9.1.11. LTE BAND 41 AND 5G NR n41

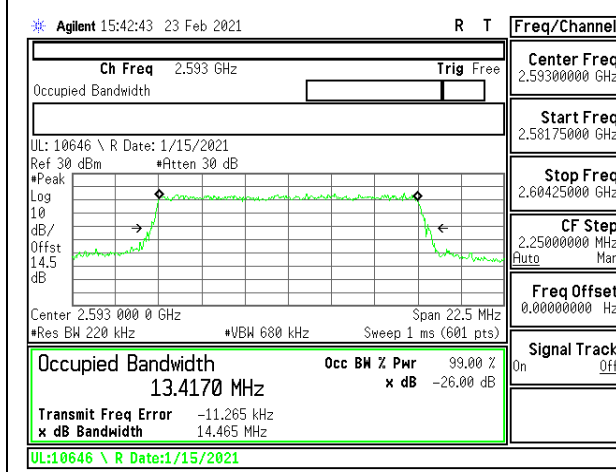
LTE BAND 41



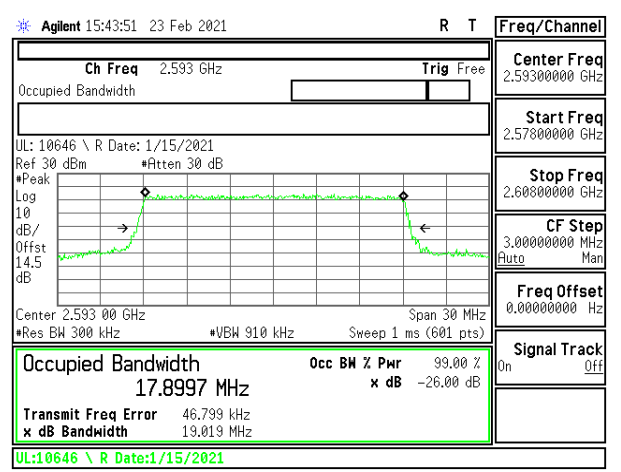
LTE B41 5MHz QPSK Middle Channel RB25-0



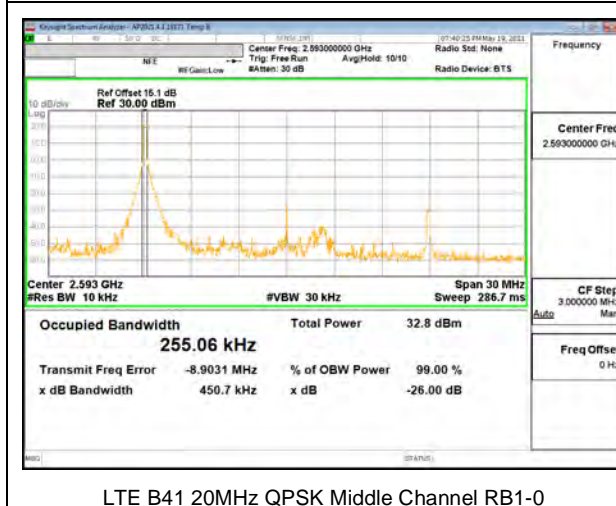
LTE B41 10MHz QPSK Middle Channel RB50-0



LTE B41 15MHz QPSK Middle Channel RB75-0



LTE B41 20MHz QPSK Middle Channel RB100-0



LTE B41 20MHz QPSK Middle Channel RB1-0

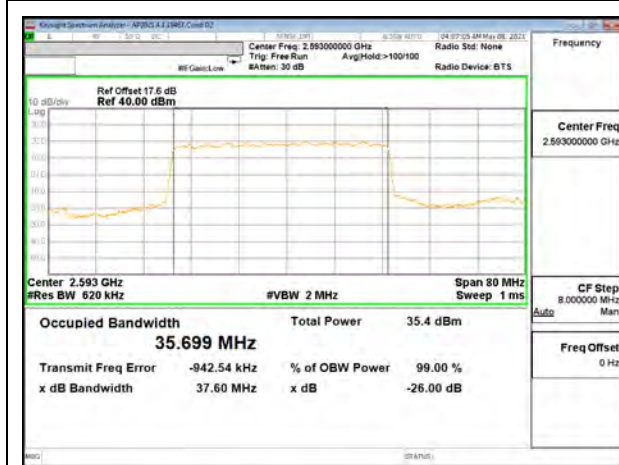
5G NR n41



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



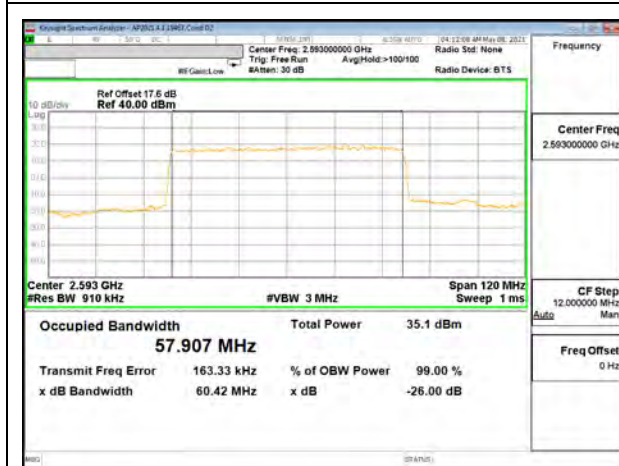
5G NR n41 30MHz BPSK Middle Channel RB75-0



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



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



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



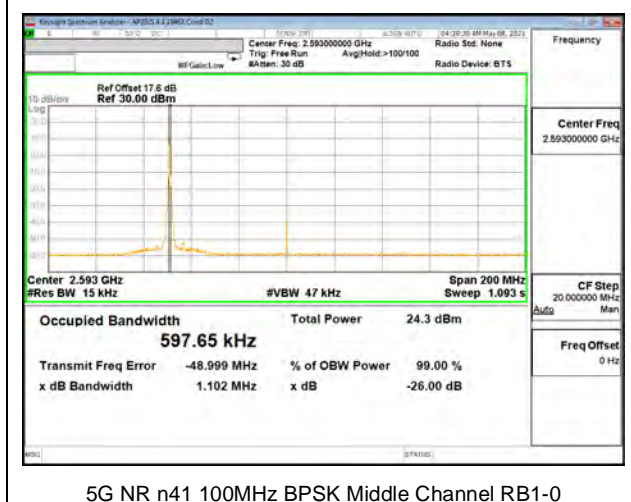
5G NR n41 80MHz BPSK Middle Channel RB216-0



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



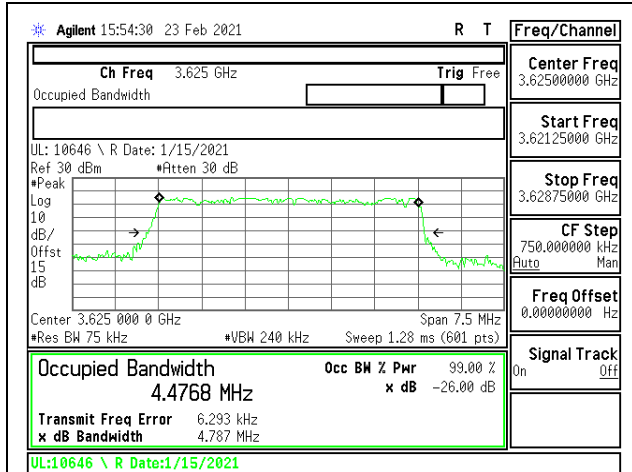
5G NR n41 100MHz BPSK Middle Channel RB270-0



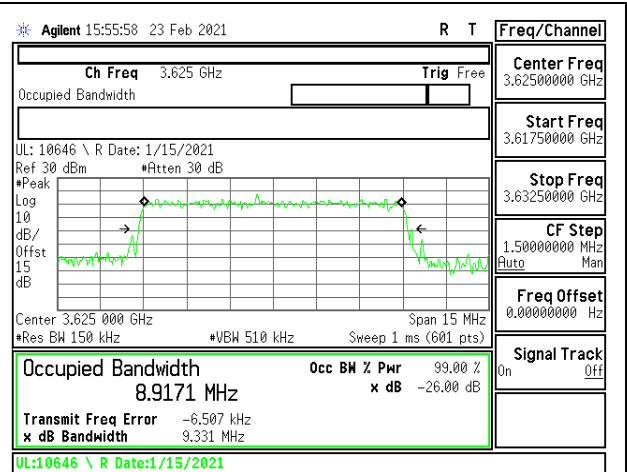
5G NR n41 100MHz BPSK Middle Channel RB1-0

9.1.12. LTE BAND 48

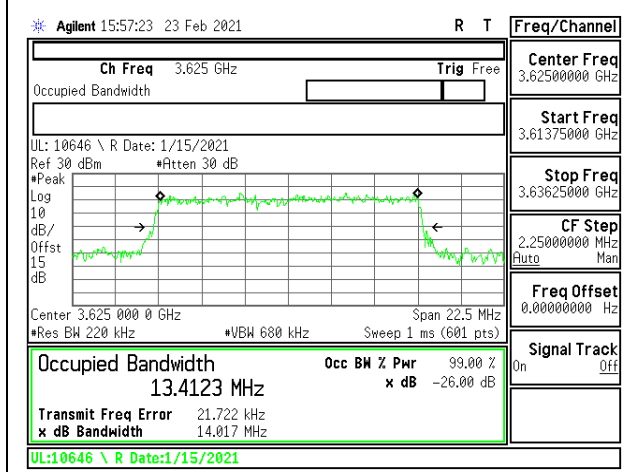
LTE BAND 48



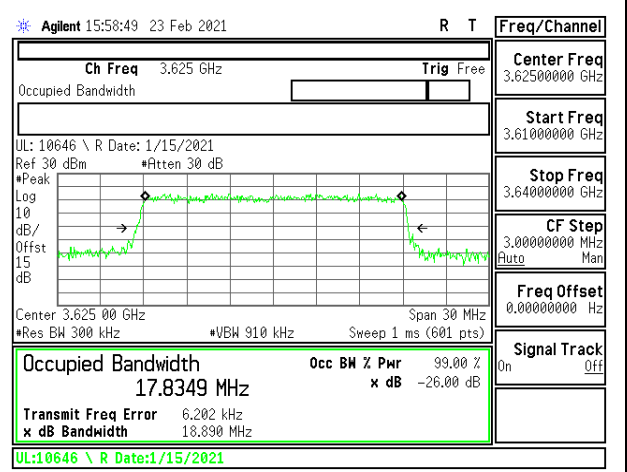
LTE B48 5MHz QPSK Middle Channel RB25-0



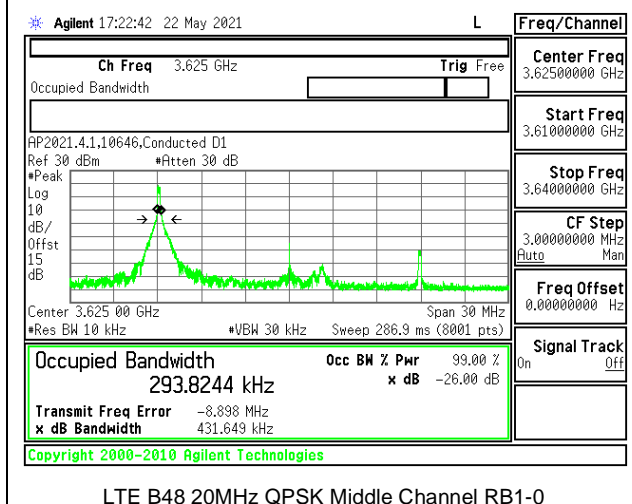
LTE B48 10MHz QPSK Middle Channel RB50-0



LTE B48 15MHz QPSK Middle Channel RB75-0



LTE B48 20MHz QPSK Middle Channel RB100-0

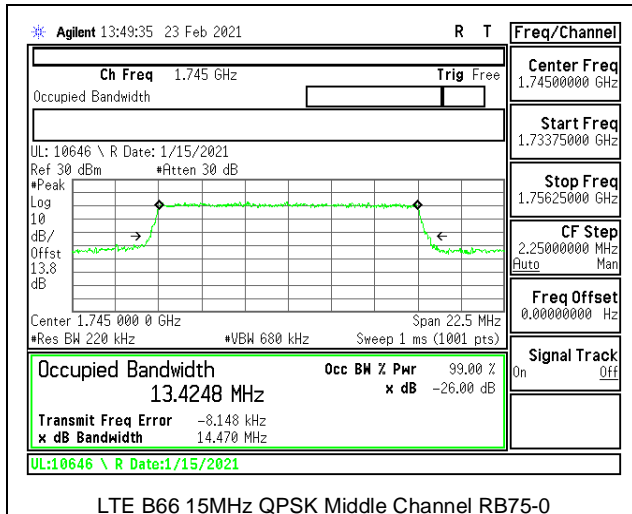


LTE B48 20MHz QPSK Middle Channel RB1-0

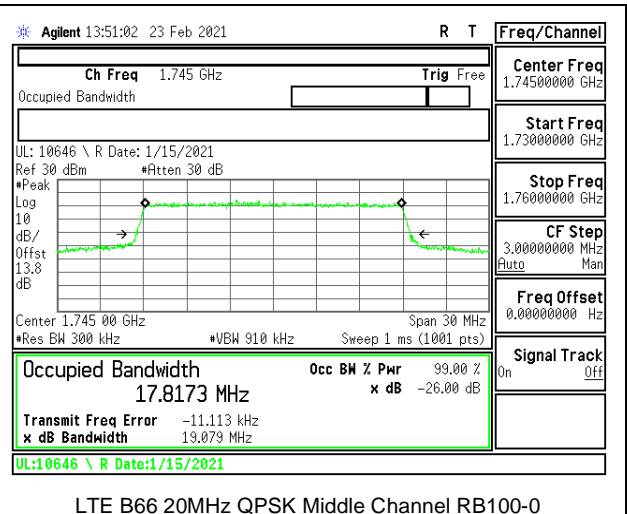
9.1.13. LTE BAND 66 AND 5G NR n66

LTE BAND 66

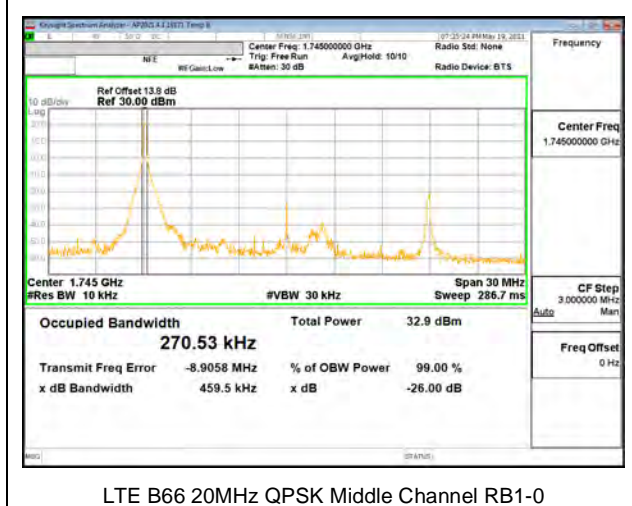




LTE B66 15MHz QPSK Middle Channel RB75-0



LTE B66 20MHz QPSK Middle Channel RB100-0



LTE B66 20MHz QPSK Middle Channel RB1-0

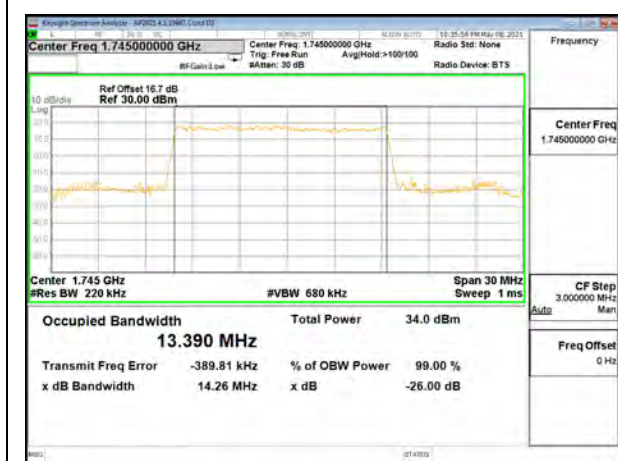
5G NR n66



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



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



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



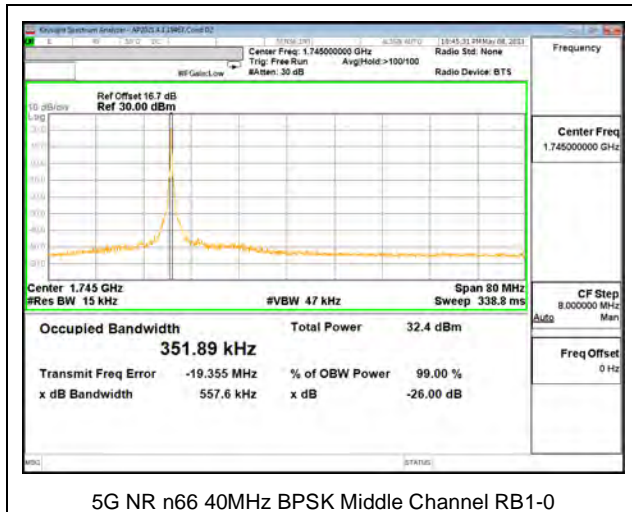
5G NR n66 20MHz BPSK Middle Channel RB100-0



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

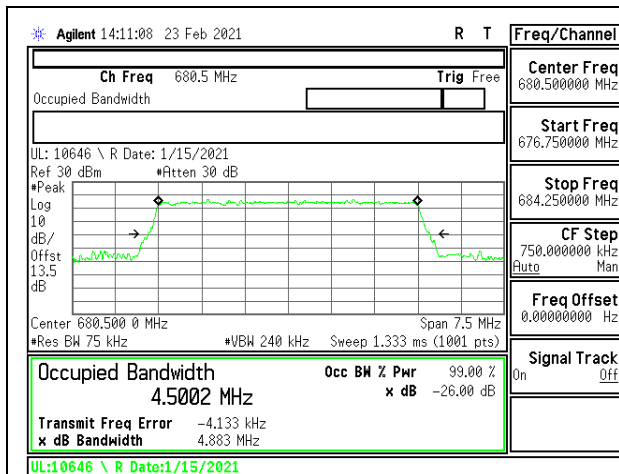


5G NR n66 40MHz BPSK Middle Channel RB216-0

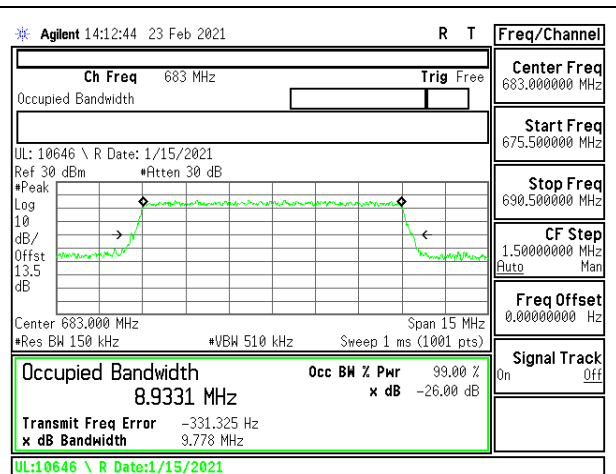


9.1.14. LTE BAND 71 AND 5G NR n71

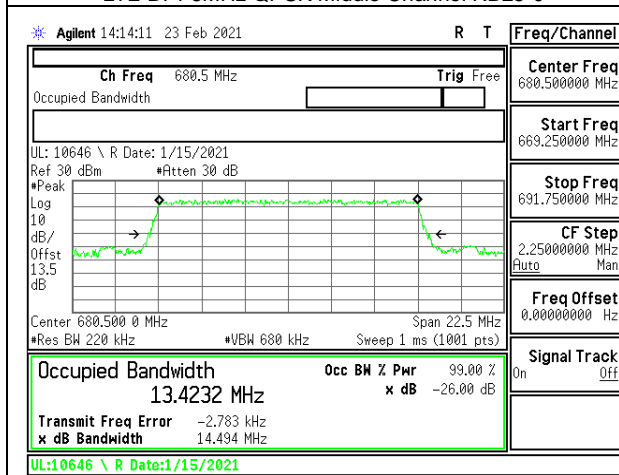
LTE BAND 71



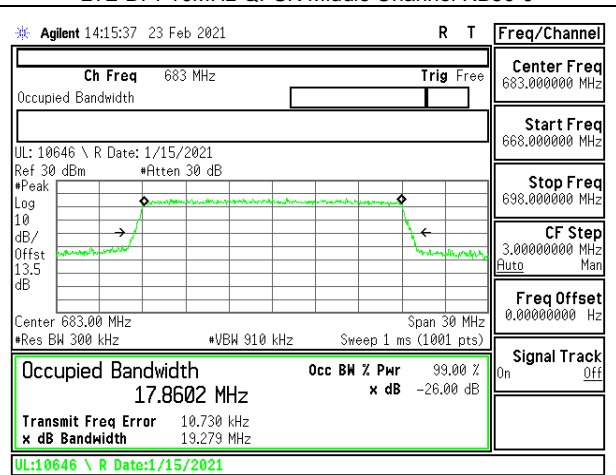
LTE B71 5MHz QPSK Middle Channel RB25-0



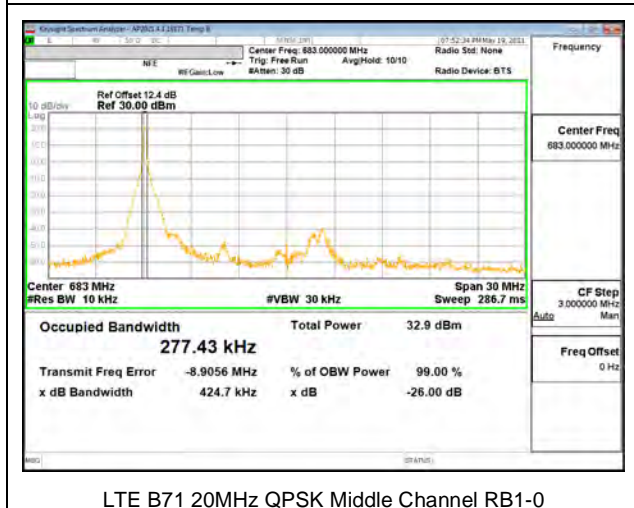
LTE B71 10MHz QPSK Middle Channel RB50-0



LTE B71 15MHz QPSK Middle Channel RB75-0

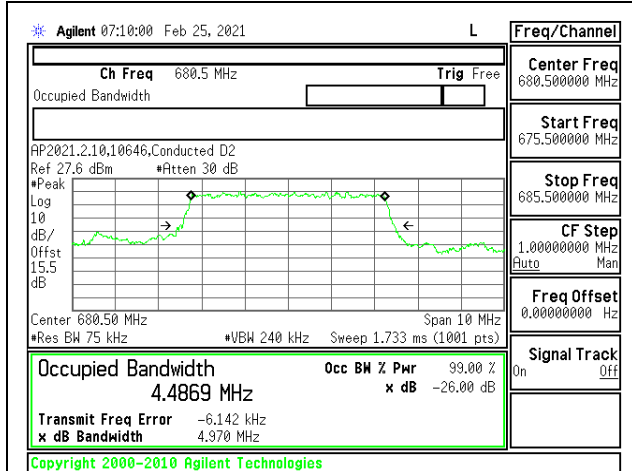


LTE B71 20MHz QPSK Middle Channel RB100-0



LTE B71 20MHz QPSK Middle Channel RB1-0

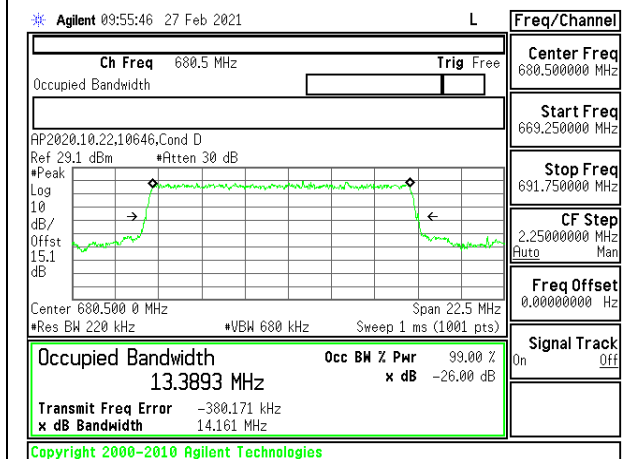
5G NR n71



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



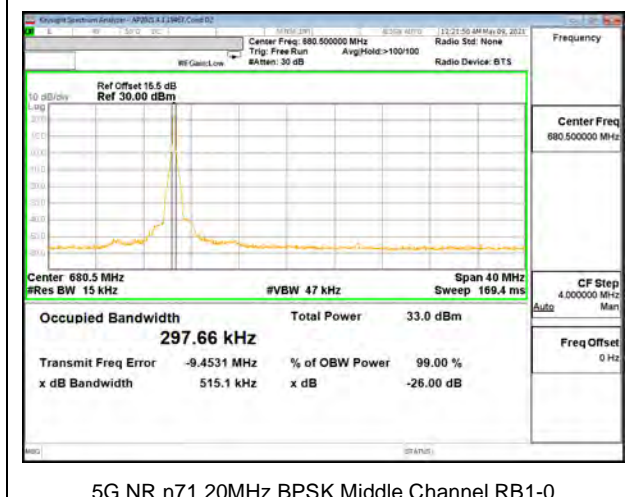
5G NR n71 10MHz BPSK Middle Channel RB50-0



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



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

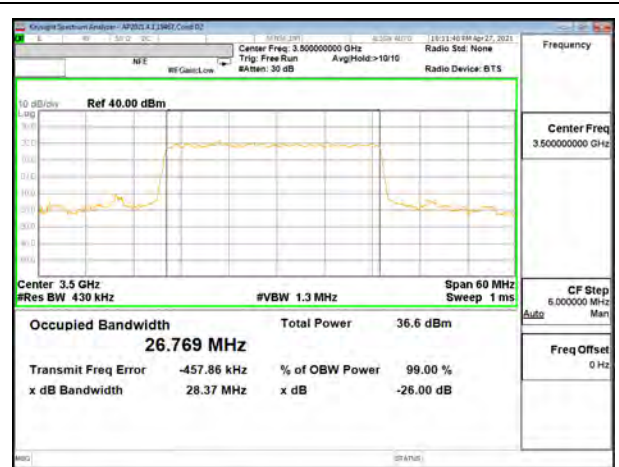


5G NR n71 20MHz BPSK Middle Channel RB1-0

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



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



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



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



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



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



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



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



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



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

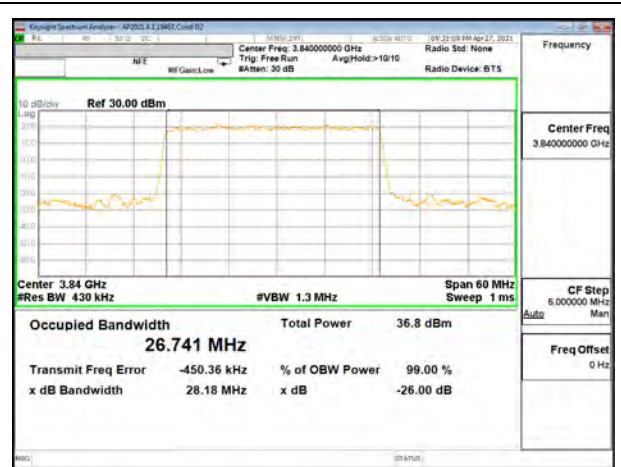


5G NR n77 100MHz BPSK Middle Channel RB1-0

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



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



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



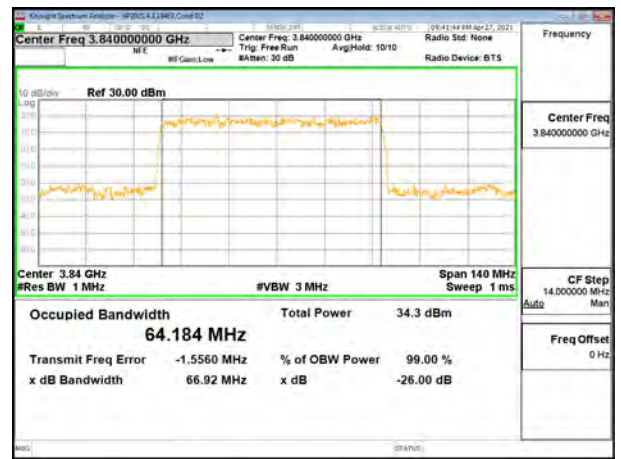
5G NR n77 40MHz BPSK Middle Channel RB100-0



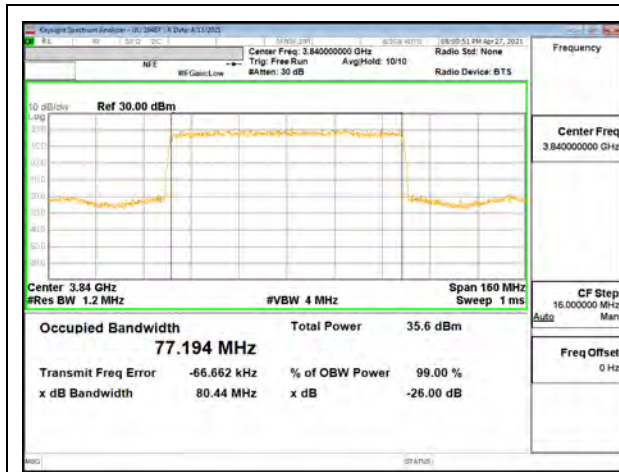
5G NR n77 50MHz BPSK Middle Channel RB128-0



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



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



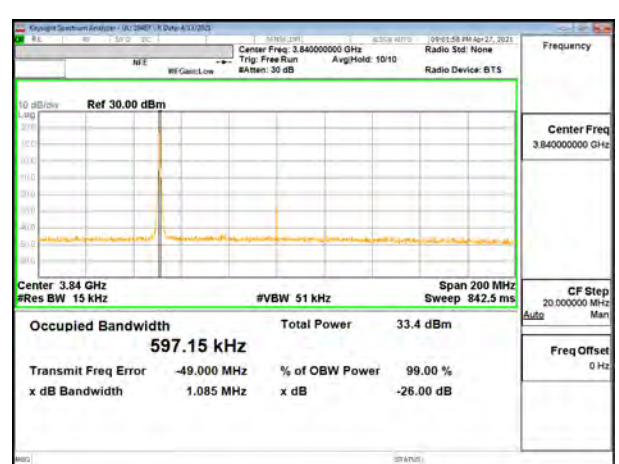
5G NR n77 80MHz BPSK Middle Channel RB216-0



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



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



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

9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

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

TEST PROCEDURE

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

For each Emission Mask measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set the Spectrum Emission Mask to cover all frequencies at their respective limits
3. Set the Spectrum Emission Mask to use the required Measurement Bandwidth
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (FCC LTE BAND 14)

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

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

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

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

TEST PROCEDURE (FCC LTE BAND 7, 41)

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

TEST PROCEDURE (FCC LTE BAND 30)

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

TEST PROCEDURE (FCC LTE BAND 48)

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

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

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

RESULTS

9.2.1. 5G NR n5 EMISSION MASK

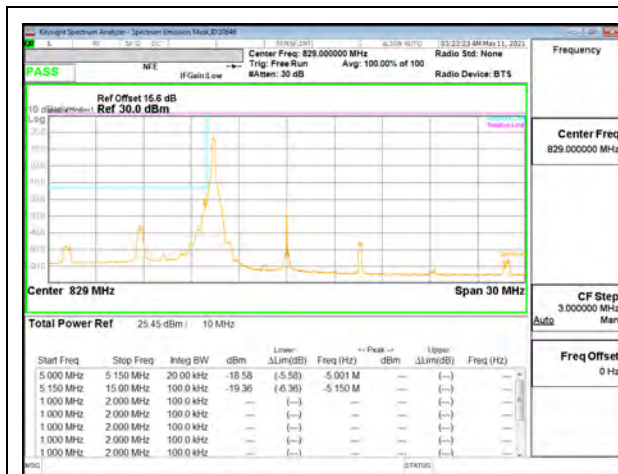
LIMITS

FCC: §22.917 (a)

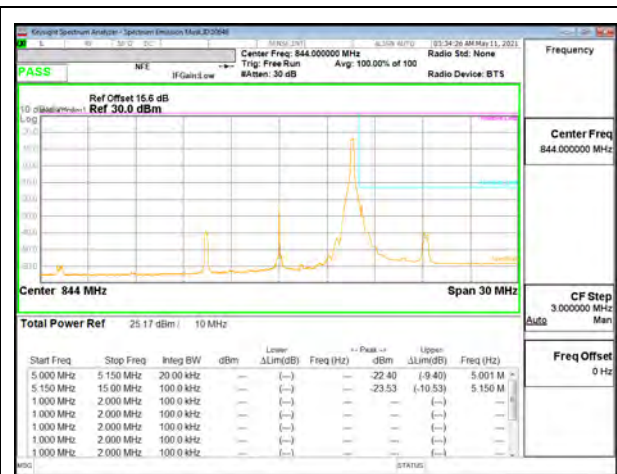
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

5G NR n5 EMISSION MASK





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



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



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



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



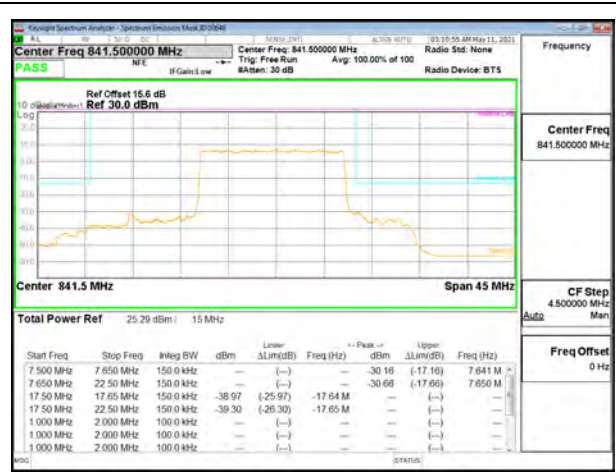
5G NR n5 15MHz BPSK Low Channel RB1-0



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



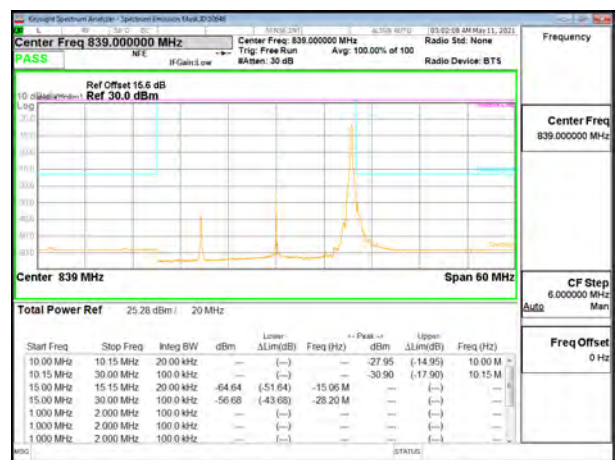
5G NR n5 15MHz BPSK Low Channel RB75-0



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



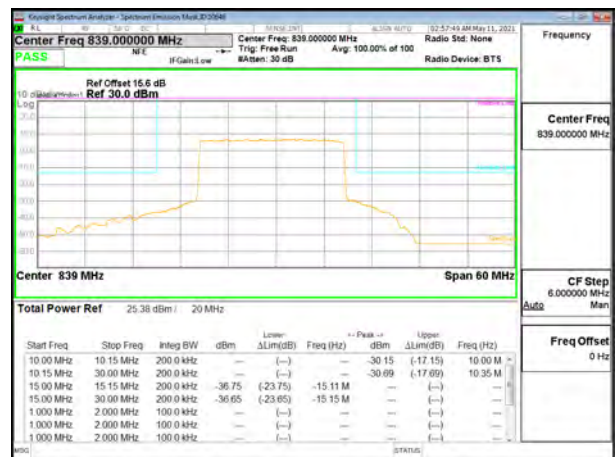
5G NR n5 20MHz BPSK Low Channel RB1-0



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



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



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

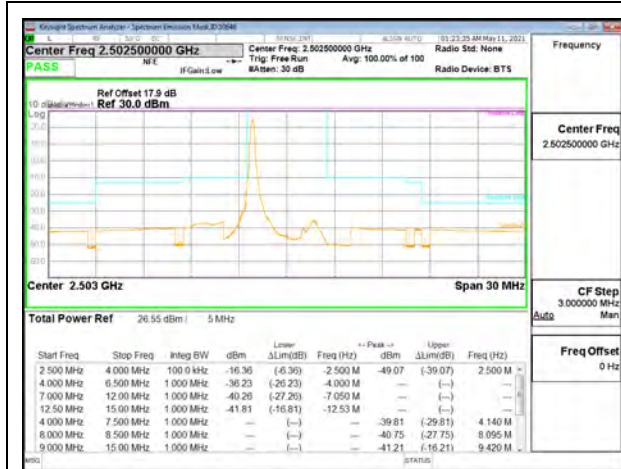
9.2.2. LTE BAND 7 AND 5G NR n7 EMISSION MASK

LIMITS

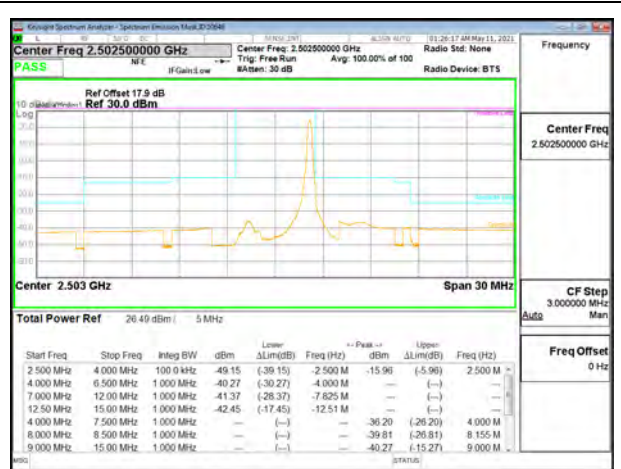
FCC: §27.53

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

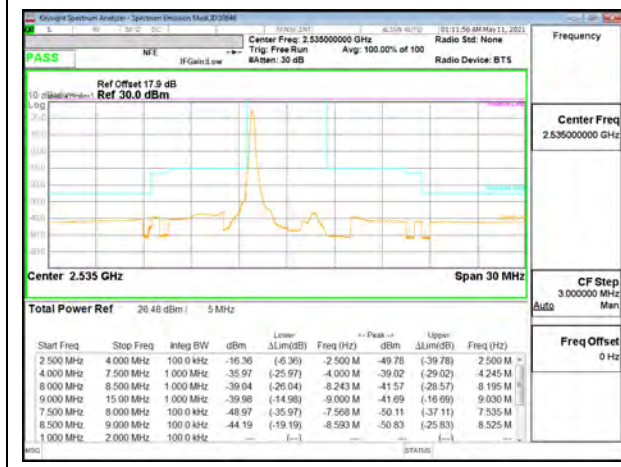
LTE BAND 7 EMISSION MASK



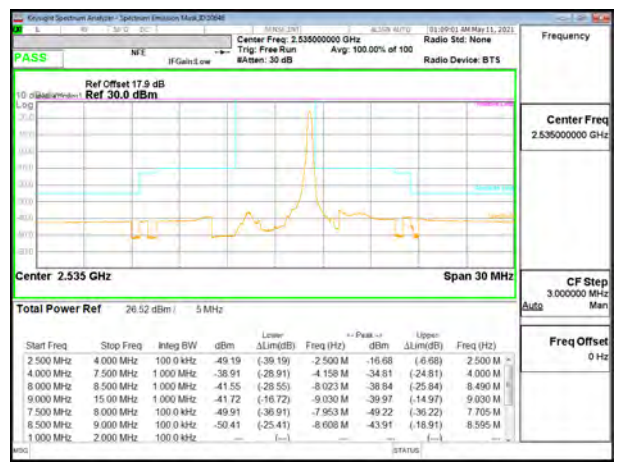
LTE B7 5MHz QPSK Low Channel RB1-0



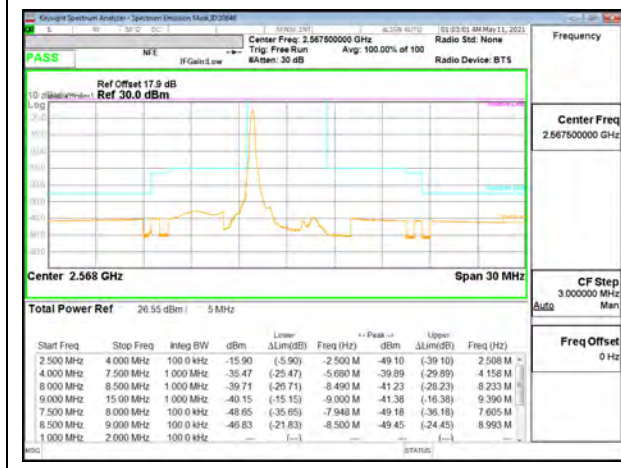
LTE B7 5MHz QPSK Low Channel RB1-24



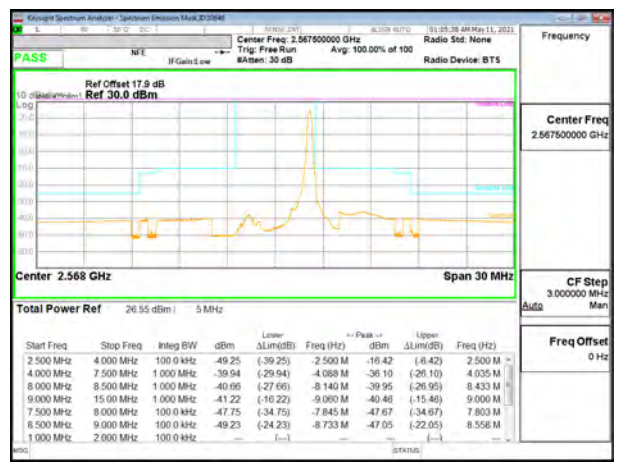
LTE B7 5MHz QPSK Middle Channel RB1-0



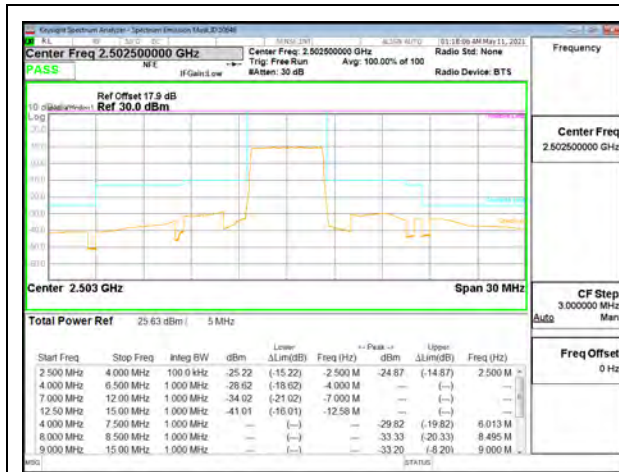
LTE B7 5MHz QPSK Middle Channel RB1-24



LTE B7 5MHz QPSK High Channel RB1-0



LTE B7 5MHz QPSK High Channel RB1-24



LTE B7 5MHz QPSK Low Channel RB25-0

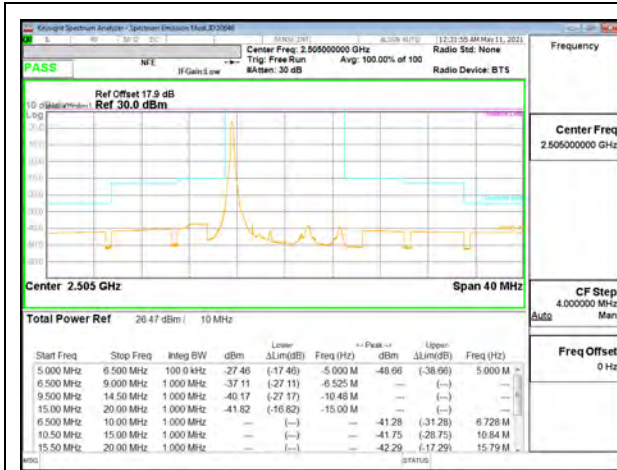


LTE B7 5MHz QPSK Middle Channel RB25-0



LTE B7 5MHz QPSK High Channel RB25-0

Intentionally Blank



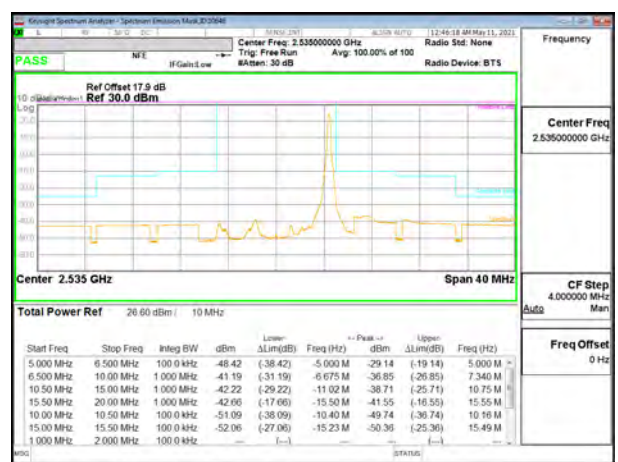
LTE B7 10MHz QPSK Low Channel RB1-0



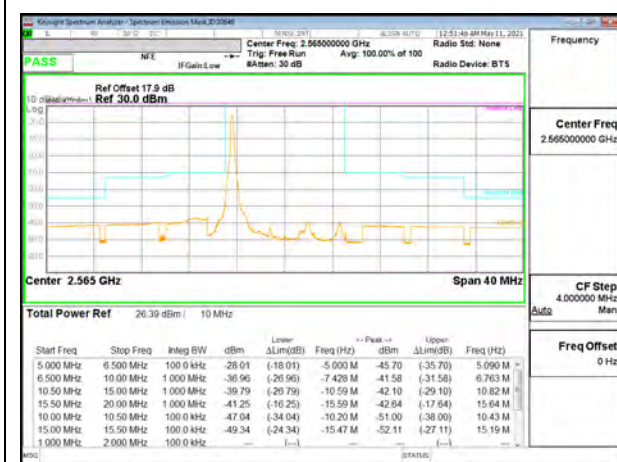
LTE B7 10MHz QPSK Low Channel RB1-49



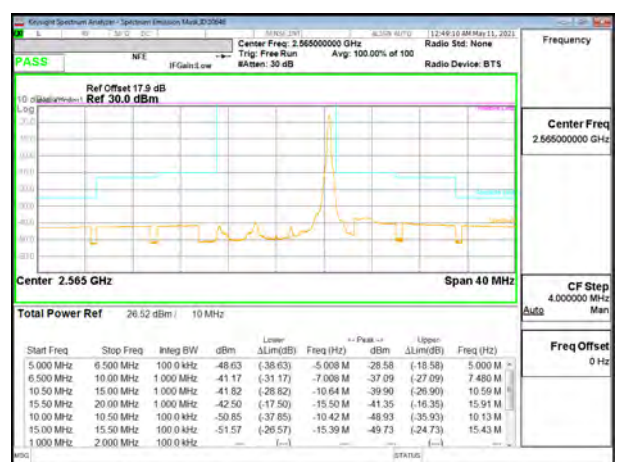
LTE B7 10MHz QPSK Middle Channel RB1-0



LTE B7 10MHz QPSK Middle Channel RB1-49



LTE B7 10MHz QPSK High Channel RB1-0



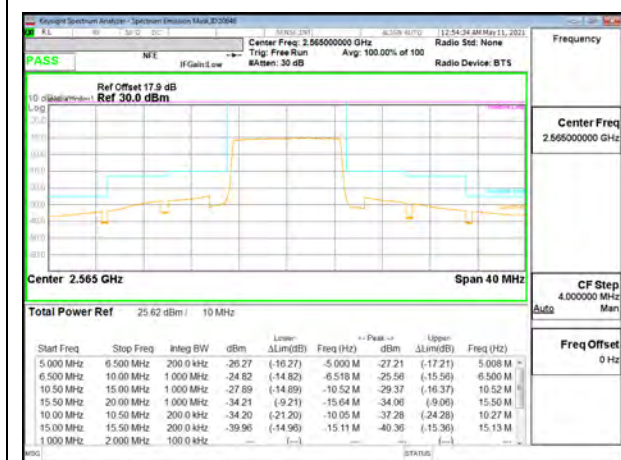
LTE B7 10MHz QPSK High Channel RB1-49



LTE B7 10MHz QPSK Low Channel RB50-0

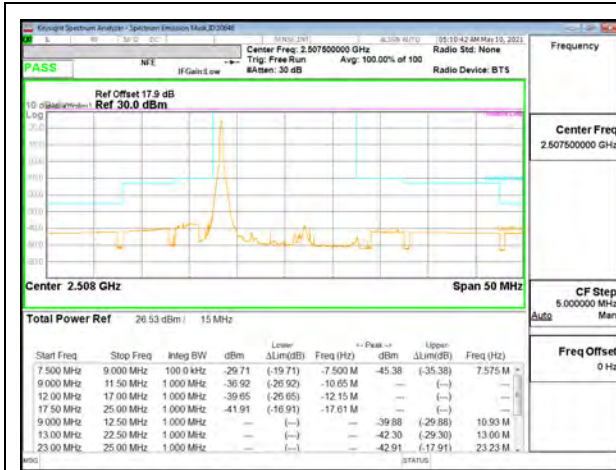


LTE B7 10MHz QPSK Middle Channel RB50-0

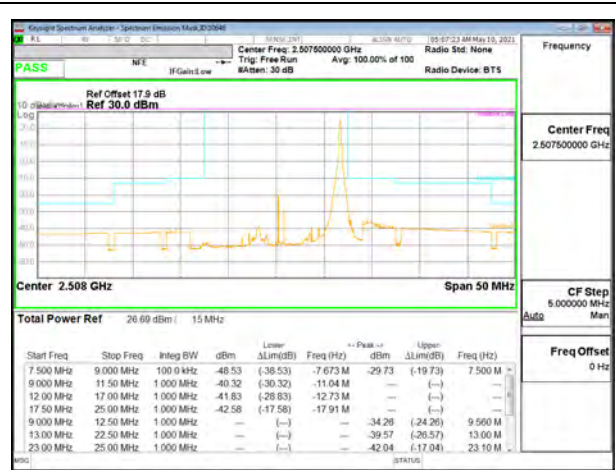


LTE B7 10MHz QPSK High Channel RB50-0

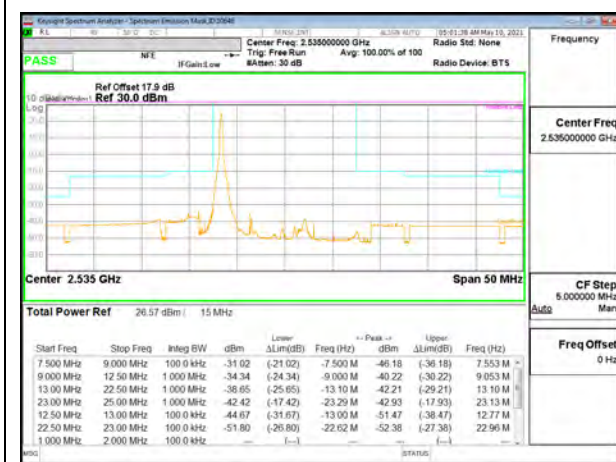
Intentionally Blank



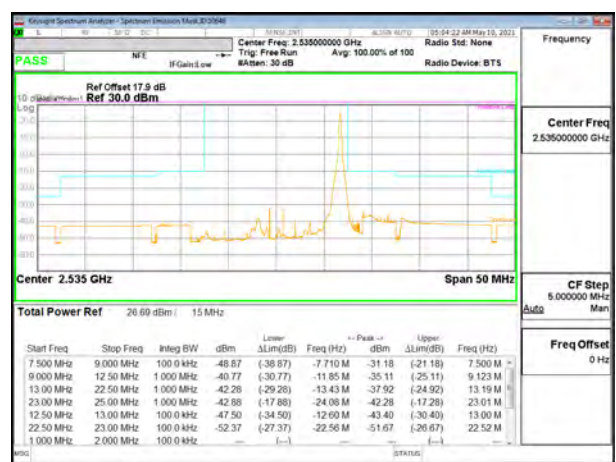
LTE B7 15MHz QPSK Low Channel RB1-0



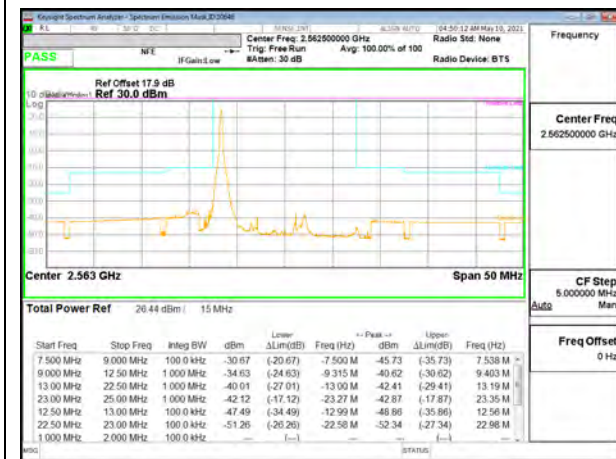
LTE B7 15MHz QPSK Middle Channel RB1-0



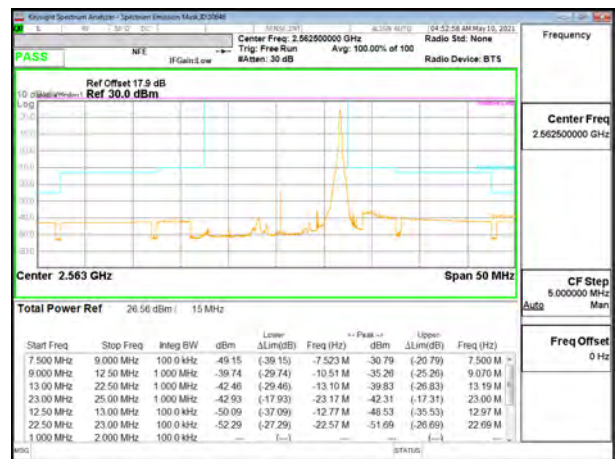
LTE B7 15MHz QPSK Low Channel RB1-74



LTE B7 15MHz QPSK Middle Channel RB1-74



LTE B7 15MHz QPSK High Channel RB1-0



LTE B7 15MHz QPSK High Channel RB1-74



LTE B7 15MHz QPSK Low Channel RB75-0

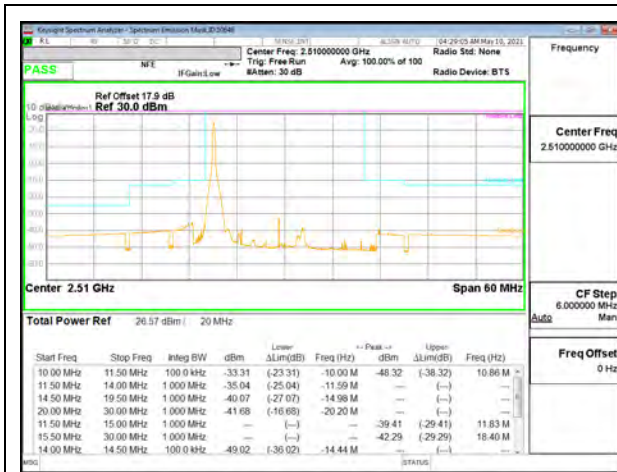


LTE B7 15MHz QPSK Middle Channel RB75-0



LTE B7 15MHz QPSK High Channel RB75-0

Intentionally Blank



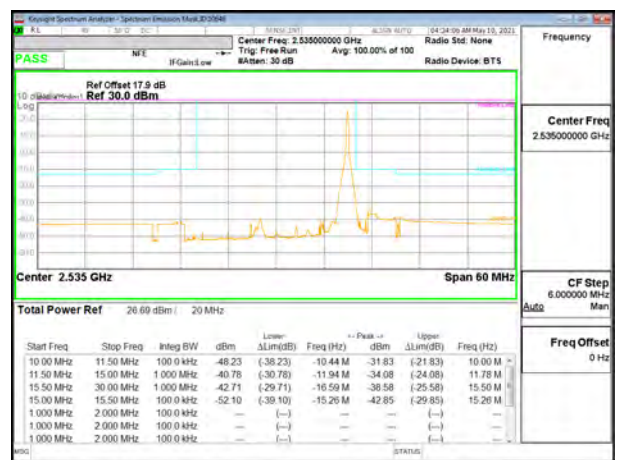
LTE B7 20MHz QPSK Low Channel RB1-0



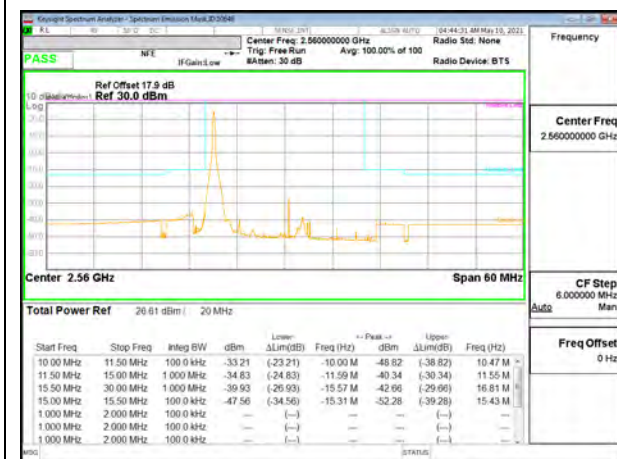
LTE B7 20MHz QPSK Low Channel RB1-99



LTE B7 20MHz QPSK Middle Channel RB1-0



LTE B7 20MHz QPSK Middle Channel RB1-99



LTE B7 20MHz QPSK High Channel RB1-0



LTE B7 20MHz QPSK High Channel RB1-99



LTE B7 20MHz QPSK Low Channel RB100-0



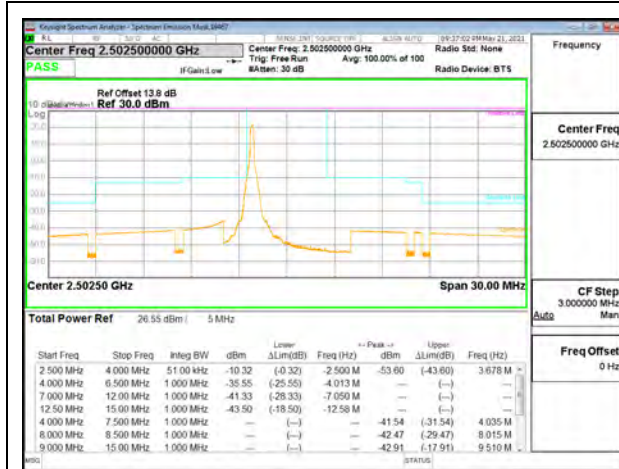
LTE B7 20MHz QPSK Middle Channel RB100-0



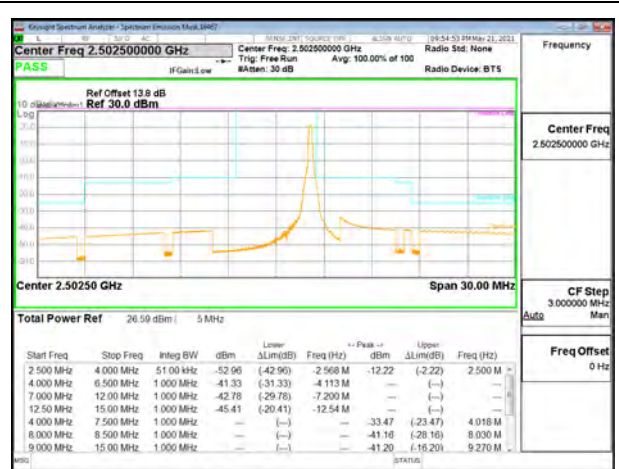
LTE B7 20MHz QPSK High Channel RB100-0

Intentionally Blank

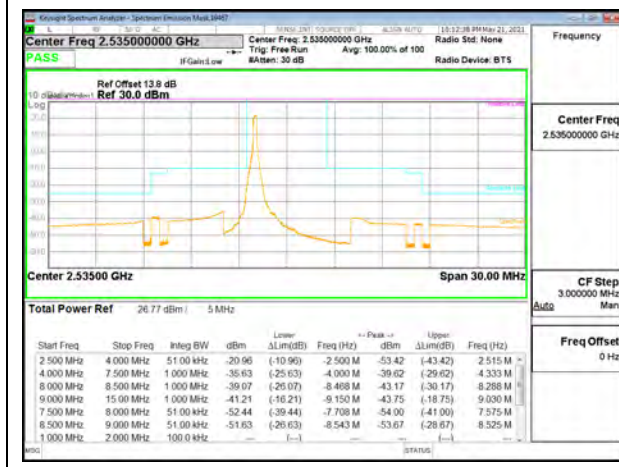
5G NR n7 EMISSION MASK



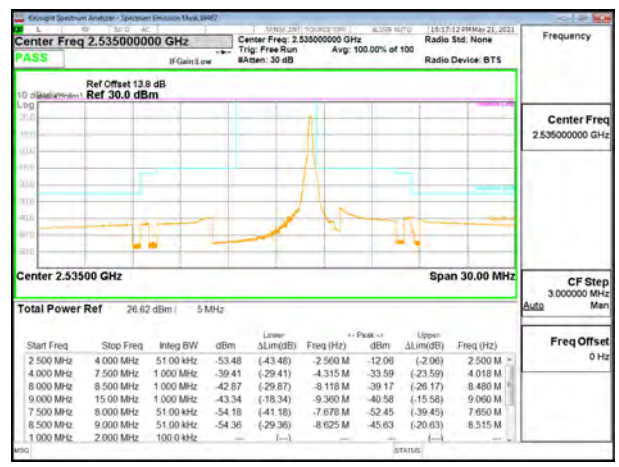
5G NR n7 5MHz BPSK Low Channel RB1-0



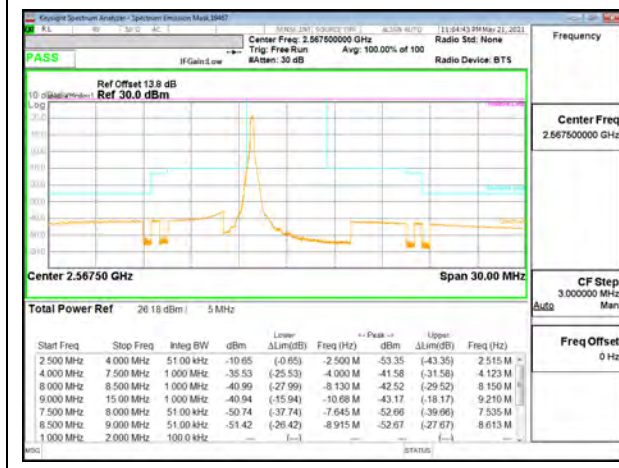
5G NR n7 5MHz BPSK Low Channel RB1-24



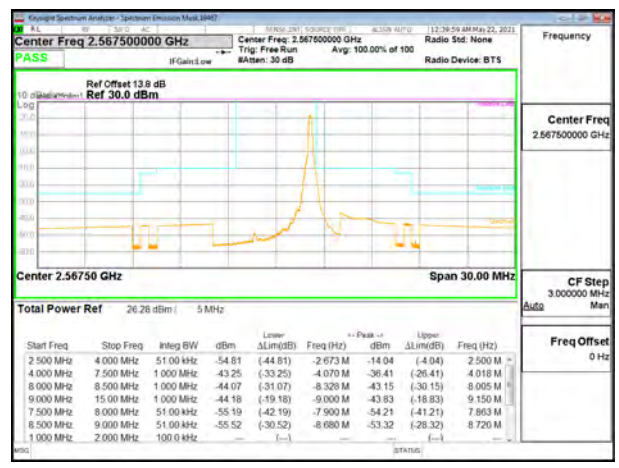
5G NR n7 5MHz BPSK Middle Channel RB1-0



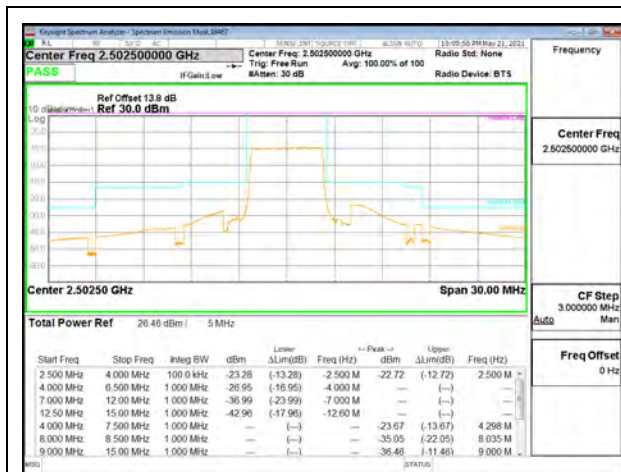
5G NR n7 5MHz BPSK Middle Channel RB1-24



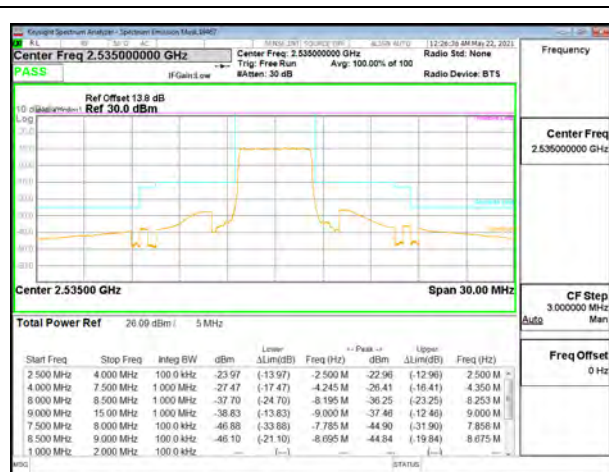
5G NR n7 5MHz BPSK High Channel RB1-0



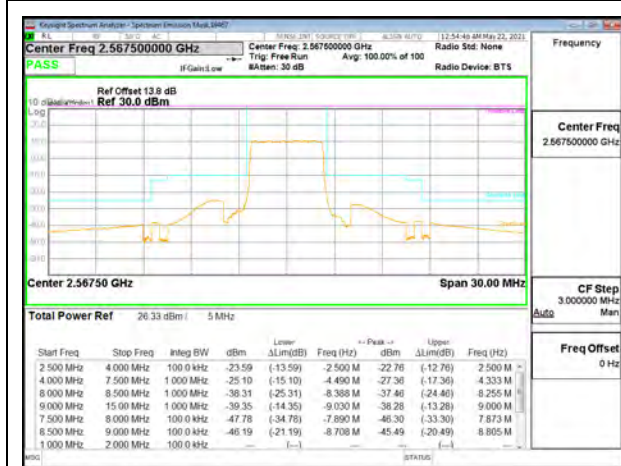
5G NR n7 5MHz BPSK High Channel RB1-24



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

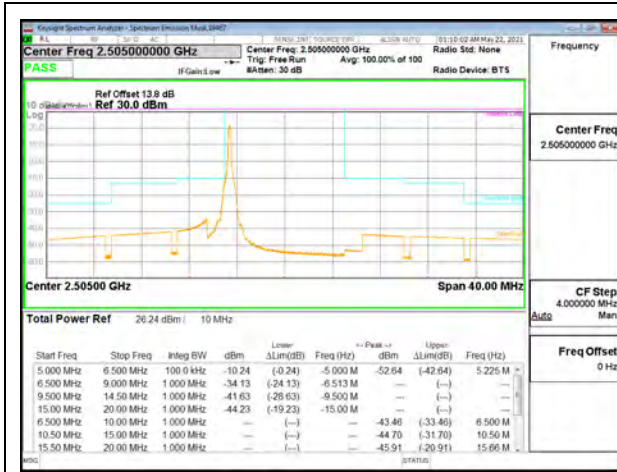


5G NR n7 5MHz BPSK Middle Channel RB25-0

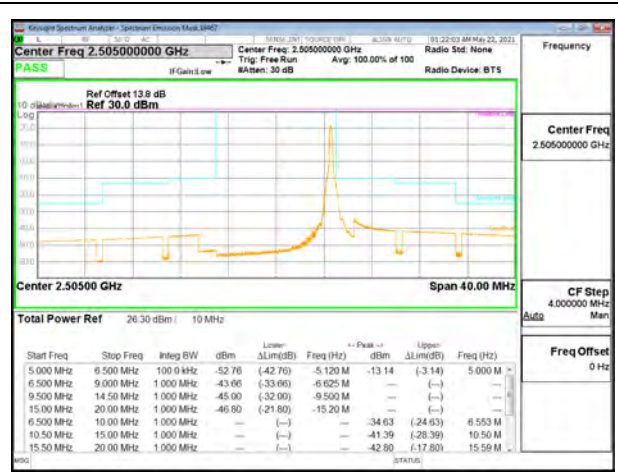


5G NR n7 5MHz BPSK High Channel RB25-0

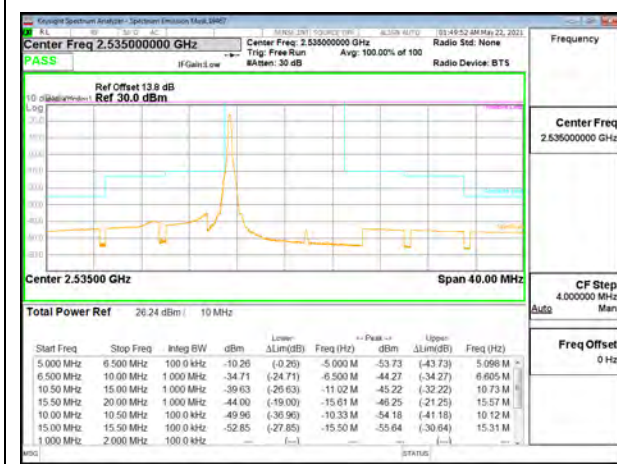
Intentionally Blank



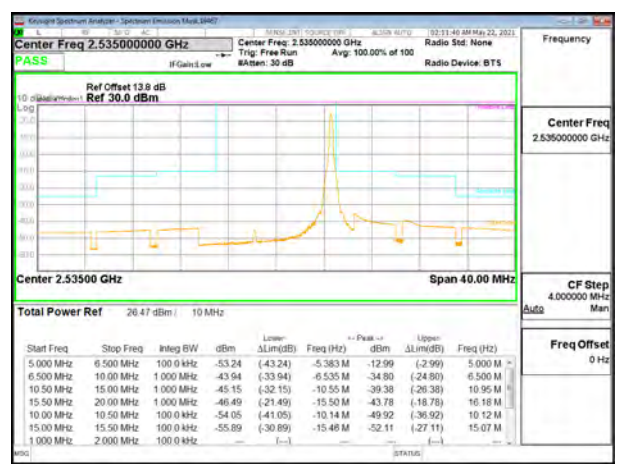
5G NR n7 10MHz BPSK Low Channel RB1-0



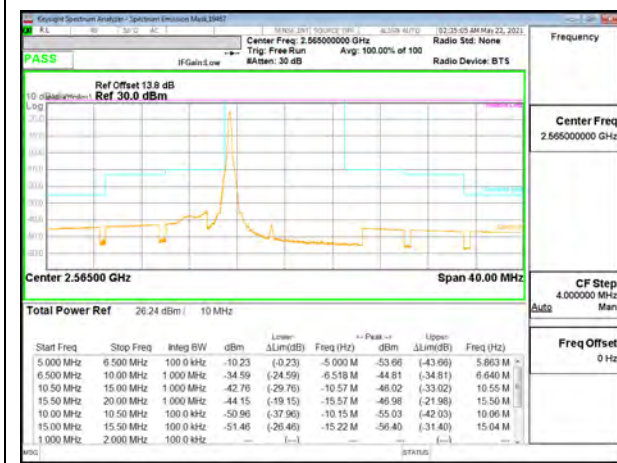
5G NR n7 10MHz BPSK Low Channel RB1-51



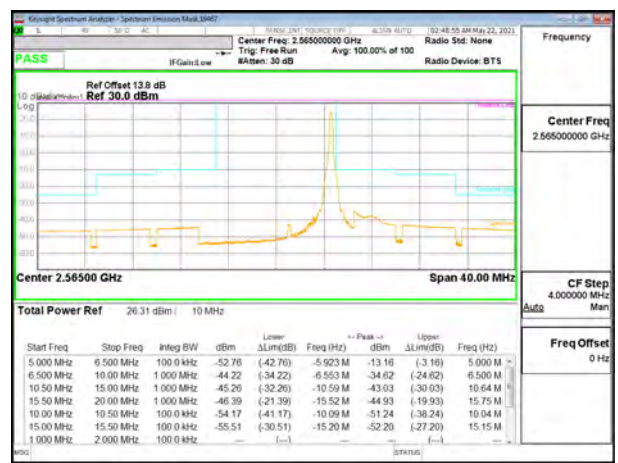
5G NR n7 10MHz BPSK Middle Channel RB1-0



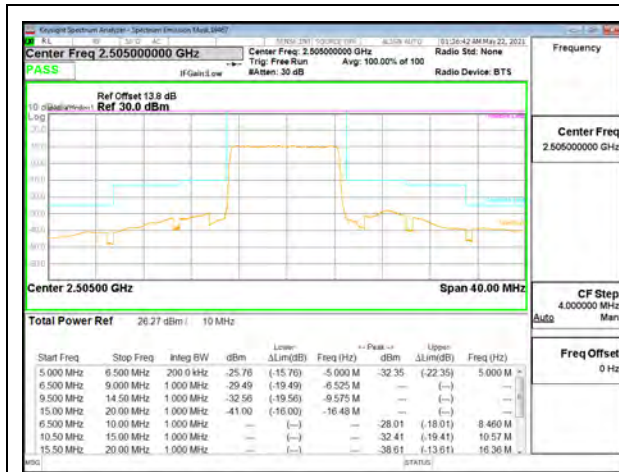
5G NR n7 10MHz BPSK Middle Channel RB1-51



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



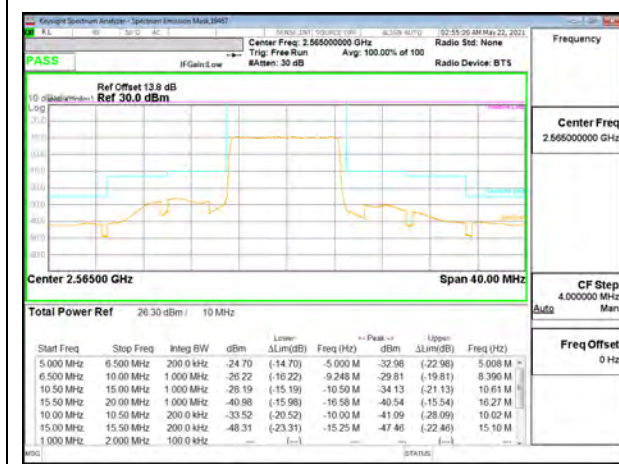
5G NR n7 10MHz BPSK High Channel RB1-51



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

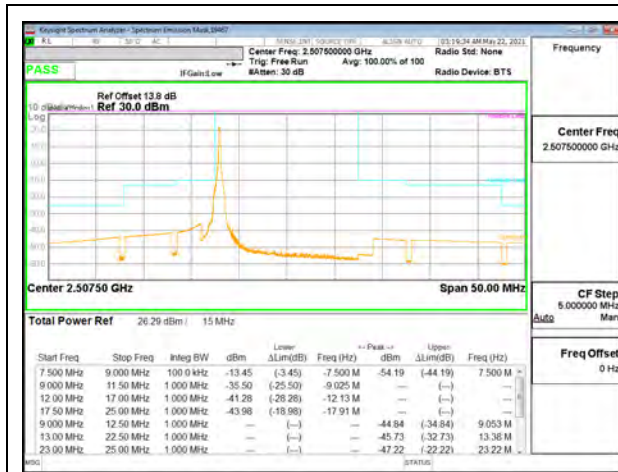


5G NR n7 10MHz BPSK Middle Channel RB50-0

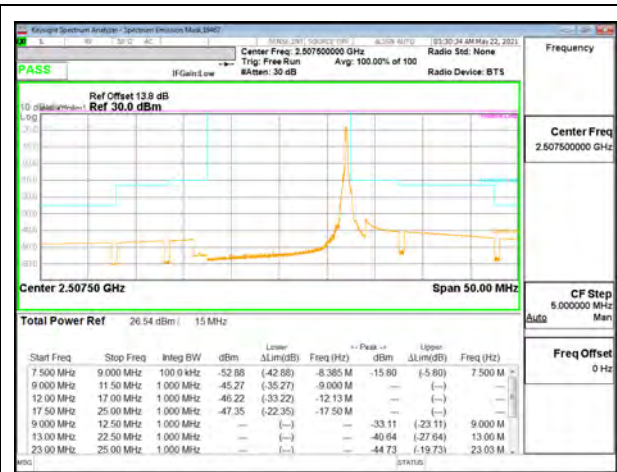


5G NR n7 10MHz BPSK High Channel RB50-0

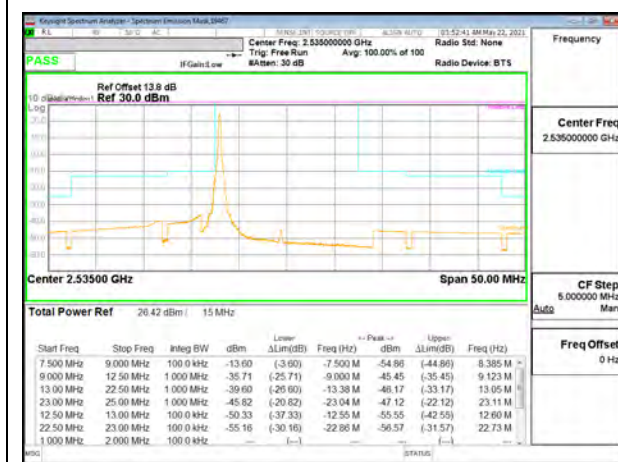
Intentionally Blank



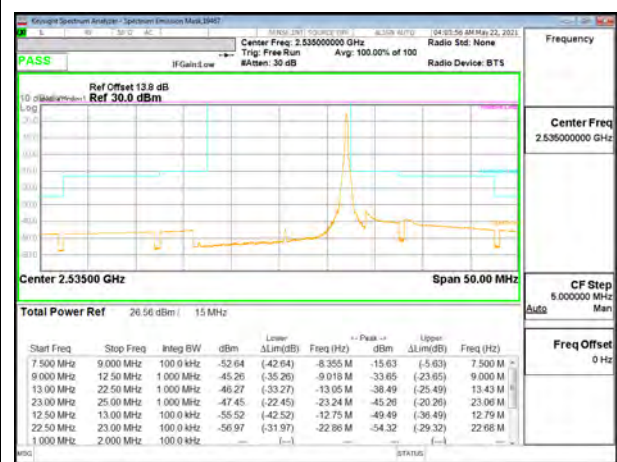
5G NR n7 15MHz BPSK Low Channel RB1-0



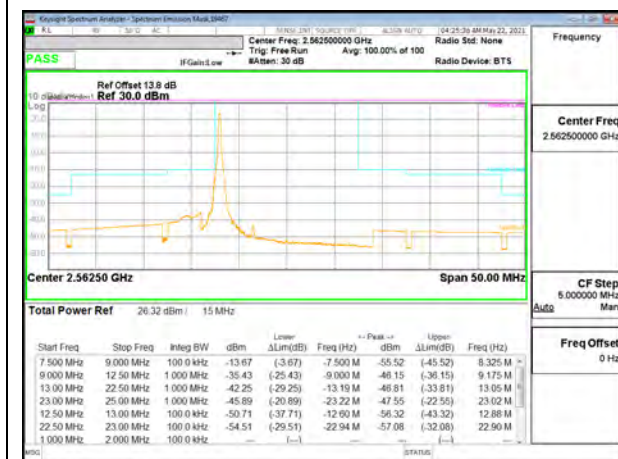
5G NR n7 15MHz BPSK Low Channel RB1-78



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



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



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



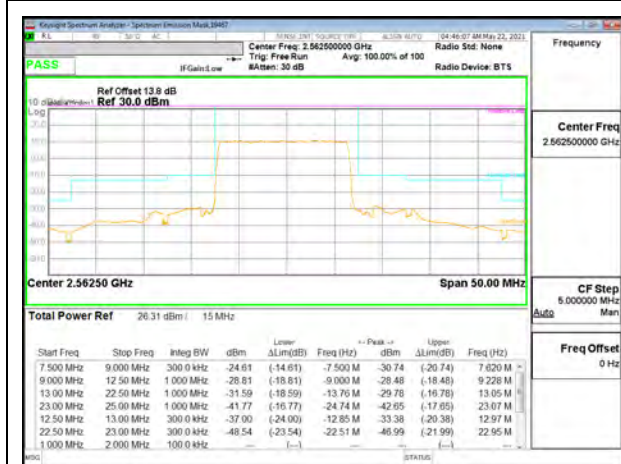
5G NR n7 15MHz BPSK High Channel RB1-78



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

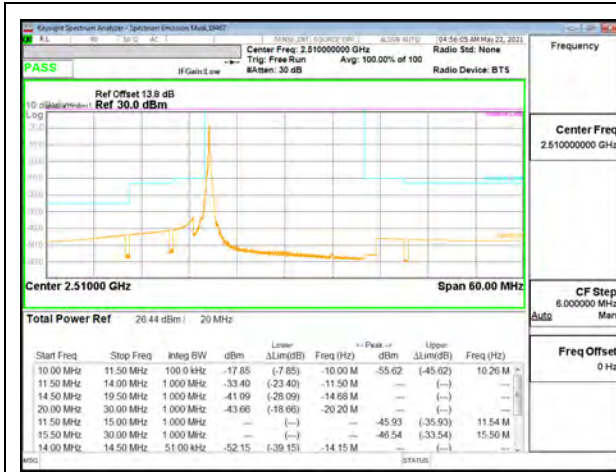


5G NR n7 15MHz BPSK Middle Channel RB75-0

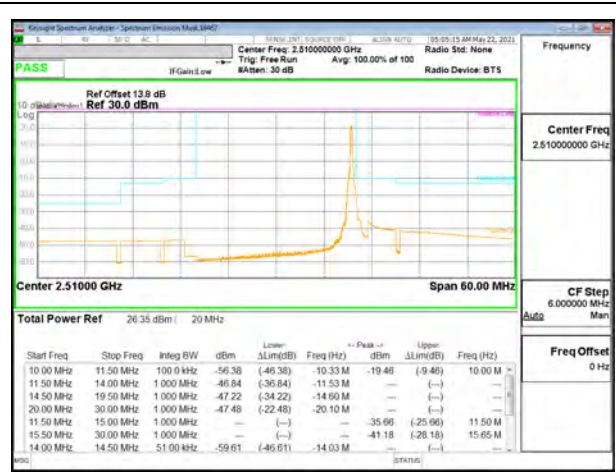


5G NR n7 15MHz BPSK High Channel RB75-0

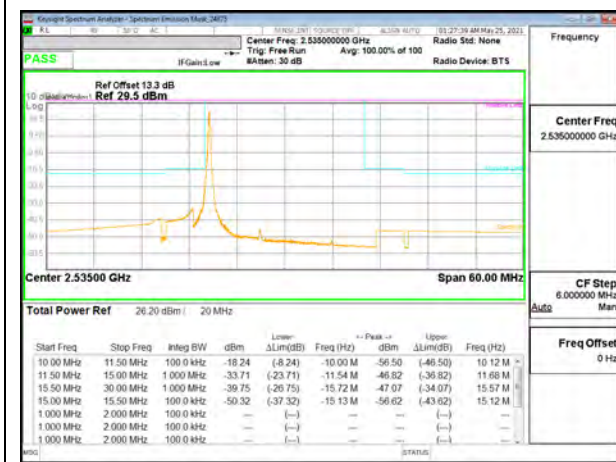
Intentionally Blank



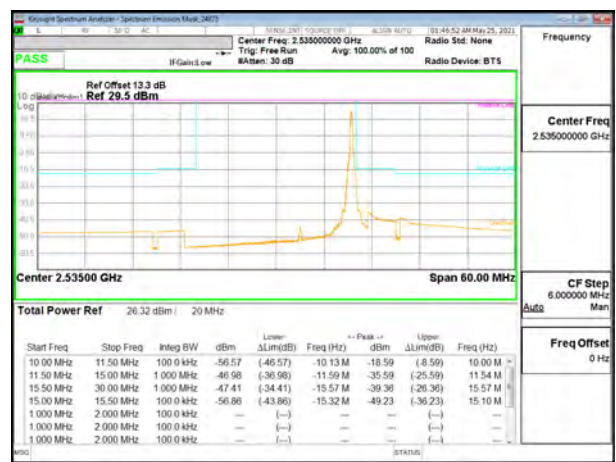
5G NR n7 20MHz BPSK Low Channel RB1-0



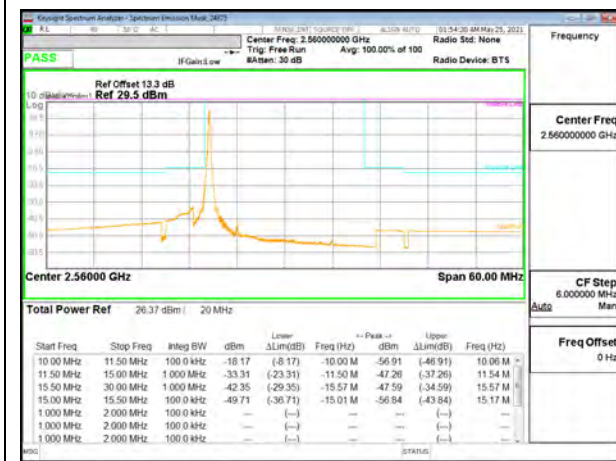
5G NR n7 20MHz BPSK Low Channel RB1-105



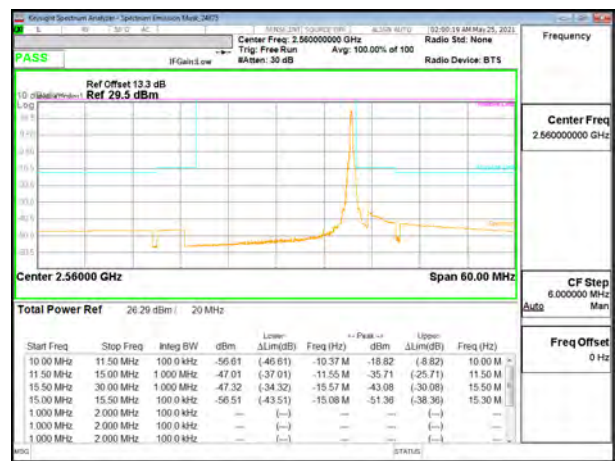
5G NR n7 20MHz BPSK Middle Channel RB1-0



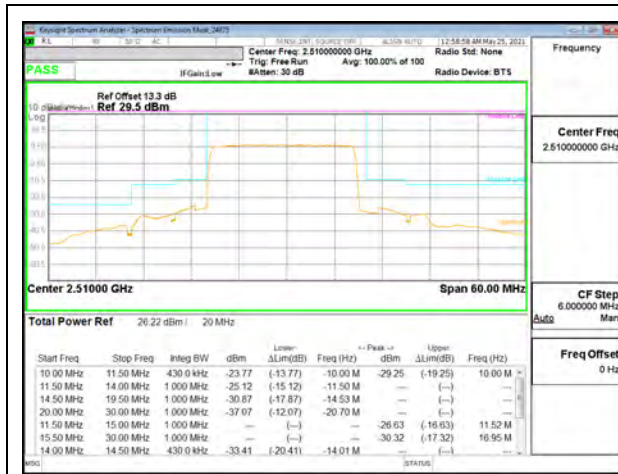
5G NR n7 20MHz BPSK Middle Channel RB1-105



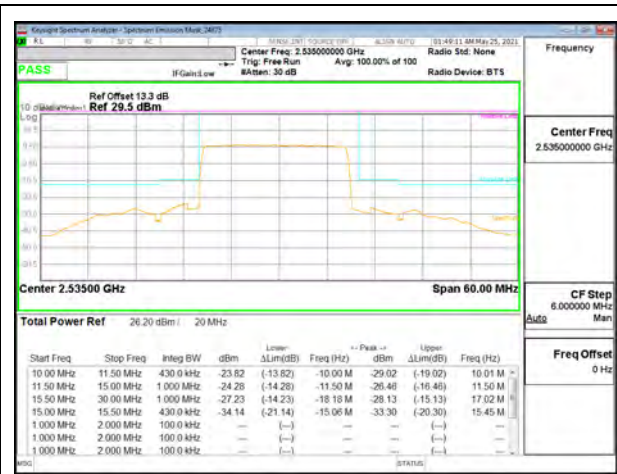
5G NR n7 20MHz BPSK High Channel RB1-0



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



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

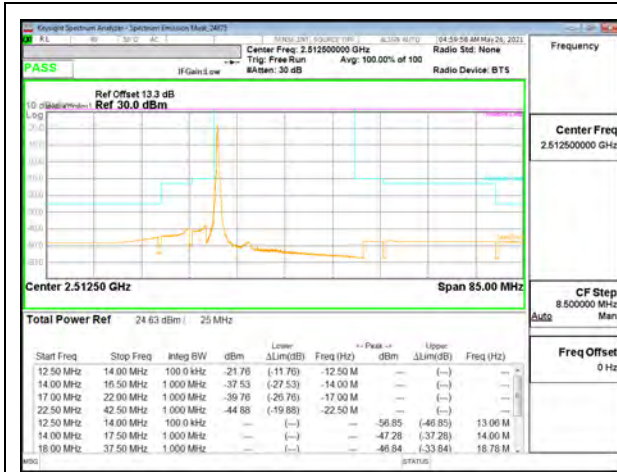


5G NR n7 20MHz BPSK Middle Channel RB100-0

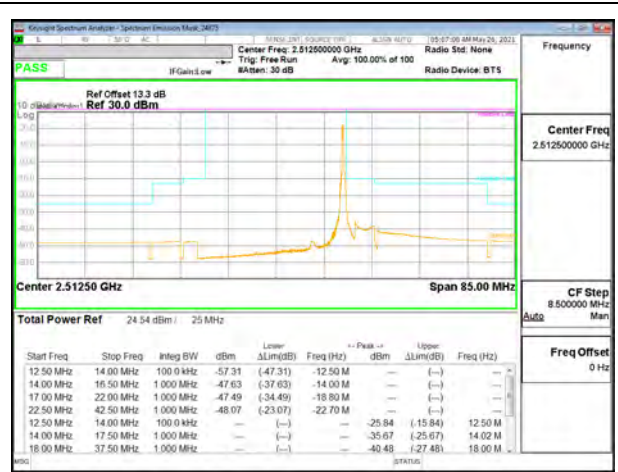


5G NR n7 20MHz BPSK High Channel RB100-0

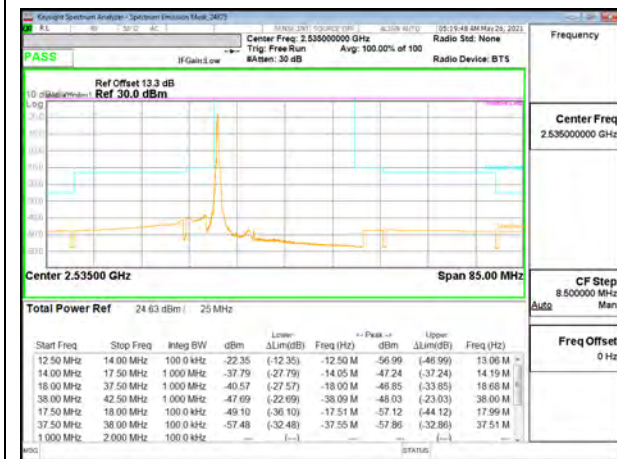
Intentionally Blank



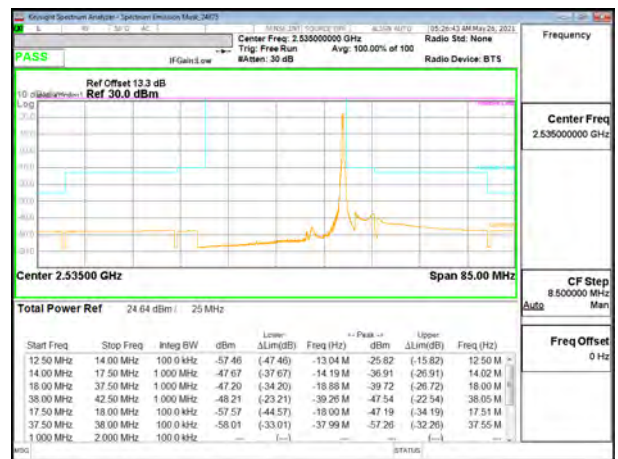
5G NR n7 25MHz BPSK Low Channel RB1-0



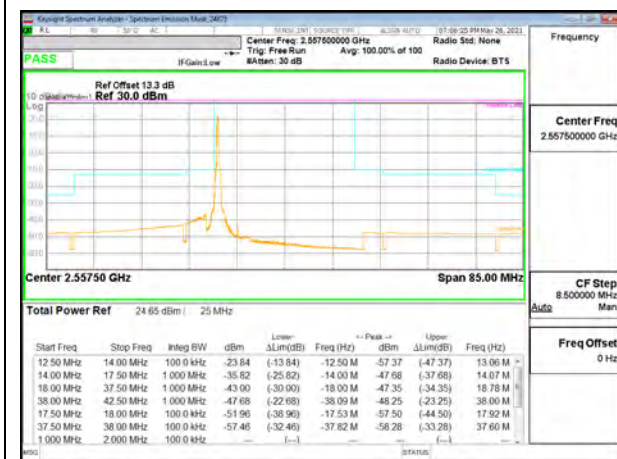
5G NR n7 25MHz BPSK Low Channel RB1-132



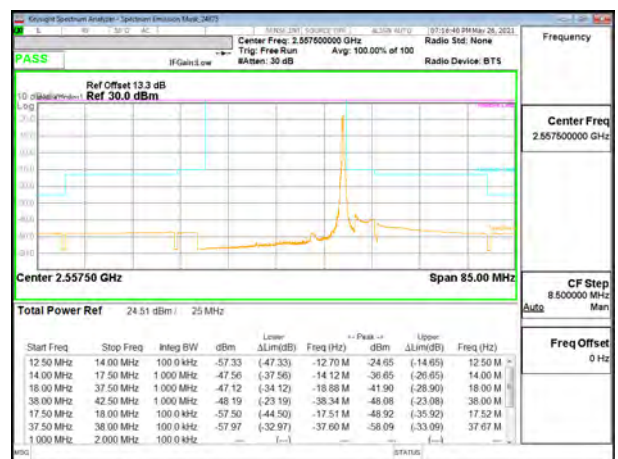
5G NR n7 25MHz BPSK Middle Channel RB1-0



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



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



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