



CERTIFICATION TEST REPORT

Report Number. : 12124122-E7V2

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

Model : A1921, A2103, A2104

FCC ID : BCG-E3219A

EUT Description : SMARTPHONE

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

Date Of Issue:
AUGUST 13, 2018

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	8/2/2018	Initial Review	Mengistu Mekuria
V2	8/13/2018	Address TCBs Questions	Mengistu Mekuria

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	8
2. TEST METHODOLOGY	9
3. FACILITIES AND ACCREDITATION	9
4. CALIBRATION AND UNCERTAINTY	10
4.1. MEASURING INSTRUMENT CALIBRATION	10
4.2. SAMPLE CALCULATION	10
4.3. MEASUREMENT UNCERTAINTY	10
5. EQUIPMENT UNDER TEST	11
5.1. DESCRIPTION OF EUT	11
5.2. DIFFERENCE IN MODEL NUMBER	11
5.3. MAXIMUM OUTPUT POWER	11
5.4. SOFTWARE AND FIRMWARE	18
5.5. MAXIMUM ANTENNA GAIN	18
5.6. WORST-CASE CONFIGURATION AND MODE	20
5.7. DESCRIPTION OF TEST SETUP	21
6. TEST AND MEASUREMENT EQUIPMENT	23
7. RF OUTPUT POWER VERIFICATION	24
7.1. ANT 1, ANT 2, ANT 3 AND ANT 4	26
7.1.1. LTE BAND 2	26
7.1.2. LTE BAND 5	29
7.1.3. LTE BAND 7	31
7.1.4. LTE BAND 12	33
7.1.5. LTE BAND 13	35
7.1.6. LTE BAND 14	36
7.1.7. LTE BAND 17	37
7.1.8. LTE BAND 25	38
7.1.9. LTE BAND 26 (Part 90S)	41
7.1.10. LTE BAND 30	43
7.1.11. LTE BAND 41	44
7.1.12. LTE BAND 66	46
7.1.13. LTE BAND 71	49

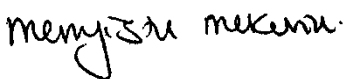
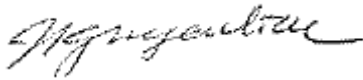
8. CONDUCTED TEST RESULTS	51
8.1. OCCUPIED BANDWIDTH	51
8.1.1. LTE BAND 2.....	58
8.1.2. LTE BAND 5.....	61
8.1.3. LTE BAND 7.....	63
8.1.4. LTE BAND 12.....	65
8.1.5. LTE BAND 13.....	67
8.1.6. LTE BAND 14.....	68
8.1.7. LTE BAND 17.....	69
8.1.8. LTE BAND 25.....	70
8.1.9. LTE BAND 26 (FCC PART 90S)	73
8.1.10. LTE BAND 30	77
8.1.11. LTE BAND 41	78
8.1.12. LTE BAND 66	80
8.1.13. LTE BAND 71	83
8.2. BAND EDGE AND EMISSION MASK	85
8.2.1. LTE BAND 2 BANDEDGE	89
8.2.2. LTE BAND 5 BANDEDGE	97
8.2.3. LTE BAND 7 ADJACENT CHANNEL POWER	103
8.2.4. LTE BAND 12 BANDEDGE	115
8.2.5. LTE BAND 13 ADJACENT CHANNEL POWER	121
8.2.6. LTE BAND 14 ADJACENT CHANNEL POWER	124
8.2.7. LTE BAND 17 BANDEDGE	127
8.2.8. LTE BAND 25 BANDEDGE	130
8.2.9. LTE BAND 26 EMISSION MASK (FCC PART 90S)	138
8.2.10. LTE BAND 30 ADJACENT CHANNEL POWER	143
8.2.11. LTE BAND 41 ADJACENT CHANNEL POWER	146
8.2.12. LTE BAND 66 BANDEDGE	158
8.2.13. LTE BAND 71 BANDEDGE	166
8.3. OUT OF BAND EMISSIONS	172
8.3.1. ANT 1, LTE BAND 2.....	173
8.3.2. ANT 1, LTE BAND 5.....	179
8.3.3. ANT 1, LTE BAND 7.....	183
8.3.4. ANT 1, LTE BAND 12.....	187
8.3.5. ANT 1, LTE BAND 13.....	191

8.3.6.	ANT 1, LTE BAND 14.....	193
8.3.7.	ANT 1, LTE BAND 17.....	195
8.3.8.	ANT 1, LTE BAND 25.....	197
8.3.9.	ANT 1, LTE BAND 26 (PART 90S).....	203
8.3.10.	ANT 1, LTE BAND 30	207
8.3.11.	ANT 1, LTE BAND 41	210
8.3.12.	ANT 1, LTE BAND 66	214
8.3.13.	ANT 1, LTE BAND 71	220
8.4.	FREQUENCY STABILITY	224
8.4.1.	LTE BAND 2.....	225
8.4.2.	LTE BAND 5.....	225
8.4.3.	LTE BAND 7.....	226
8.4.4.	LTE BAND 12.....	226
8.4.5.	LTE BAND 13.....	227
8.4.6.	LTE BAND 14.....	227
8.4.7.	LTE BAND 17.....	228
8.4.8.	LTE BAND 25.....	228
8.4.9.	LTE BAND 26 (PART 90)	229
8.4.10.	LTE BAND 30	229
8.4.11.	LTE BAND 41	230
8.4.12.	LTE BAND 66	230
8.4.13.	LTE BAND 71	231
8.5.	PEAK-TO-AVERAGE POWER RATIO	232
8.5.1.	LTE BAND 2.....	233
8.5.2.	LTE BAND 5.....	235
8.5.3.	LTE BAND 7.....	237
8.5.4.	LTE BAND 12.....	239
8.5.5.	LTE BAND 13.....	241
8.5.6.	LTE BAND 14.....	242
8.5.7.	LTE BAND 17.....	243
8.5.8.	LTE BAND 25.....	244
8.5.9.	LTE BAND 26 (PART 90S).....	246
8.5.10.	LTE BAND 30	248
8.5.11.	LTE BAND 41	249
8.5.12.	LTE BAND 66	249

8.5.13.	LTE BAND 71	252
9.	RADIATED TEST RESULTS	254
9.1.	FIELD STRENGTH OF SPURIOUS RADIATION (ANT1)	255
9.1.1.	LTE BAND 2.....	255
9.1.2.	LTE BAND 5.....	255
9.1.3.	LTE BAND 7.....	256
9.1.4.	LTE BAND 12.....	257
9.1.5.	LTE BAND 13.....	257
9.1.6.	LTE BAND 14.....	258
9.1.7.	LTE BAND 17.....	258
9.1.8.	LTE BAND 25.....	259
9.1.9.	LTE BAND 26 (PART 90S).....	259
9.1.10.	LTE BAND 30	260
9.1.11.	LTE BAND 41	260
9.1.12.	LTE BAND 66	261
9.1.13.	LTE BAND 71	261
9.2.	FIELD STRENGTH OF SPURIOUS RADIATION (ANT2)	262
9.2.1.	LTE BAND 2.....	262
9.2.2.	LTE BAND 5.....	262
9.2.3.	LTE BAND 7.....	263
9.2.4.	LTE BAND 12.....	264
9.2.5.	LTE BAND 13.....	264
9.2.6.	LTE BAND 14.....	265
9.2.7.	LTE BAND 17.....	265
9.2.8.	LTE BAND 25.....	266
9.2.9.	LTE BAND 26 (PART 90S).....	266
9.2.10.	LTE BAND 30	267
9.2.11.	LTE BAND 41	267
9.2.12.	LTE BAND 66	268
9.2.13.	LTE BAND 71	268
9.3.	FIELD STRENGTH OF SPURIOUS RADIATION (ANT3)	269
9.3.1.	LTE BAND 2.....	269
9.3.2.	LTE BAND 7.....	269
9.3.3.	LTE BAND 25.....	270

9.3.4.	LTE BAND 30.....	270
9.3.5.	LTE BAND 41.....	271
9.3.6.	LTE BAND 66.....	271
9.4.	FIELD STRENGTH OF SPURIOUS RADIATION (ANT4).....	272
9.4.1.	LTE BAND 2.....	272
9.4.2.	LTE BAND 7.....	272
9.4.3.	LTE BAND 25.....	273
9.4.4.	LTE BAND 30.....	273
9.4.5.	LTE BAND 41.....	274
9.4.6.	LTE BAND 66.....	274
10.	SETUP PHOTOS.....	274

1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA. 95014, U.S.A.
Model	A1921, A2103, A2104
FCC ID	BCG-E3219A
EUT Description	SMARTPHONE
Serial Number	C39WK089K3VF
Date Tested	MARCH 23, 2018 to JULY 20, 2018
Applicable Standards	FCC CFR47 PART 22H, 24E, 27, 90S, and 90R
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL 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 any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.	
Approved & Released By:	Prepared By:
	
Mengistu Mekuria Lead Test Engineer UL Verification Services Inc.	Lieu Nguyen Laboratory Engineer UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26:2015, FCC CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90S, and 90R, FCC KDB 971168 D01 v03r01/ D02 v02r01, and FCC KDB 412172 D01 Determining ERP and EIRP v01r01.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A (IC:2324B-1)	☐ Chamber D (IC:22541-1)
☐ Chamber B (IC:2324B-2)	☐ Chamber E (IC:22541-2)
☐ Chamber C (IC:2324B-3)	☒ Chamber F (IC:22541-3)
	☒ Chamber G (IC:22541-4)
	☒ Chamber H (IC:22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at [NVLAP Lab Search](#).

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \\ &\text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Radiated Disturbance, 26000 to 40000 MHz	5.24 dB
Occupied Channel Bandwidth	±0.39 %
Temperature	±0.9 °C
Supply voltages	±0.45 %
Time	±0.02 %

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The Apple iPhone, is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, TD-SCDMA, CDMA, IEEE 802.11a/b/g/n/ac, Bluetooth, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either UICC based, electronic SIM (e-SIM), or second SIM is not present. The device has a built-in inductive charging receiver which is not user accessible. The rechargeable battery is not user accessible.

5.2. DIFFERENCE IN MODEL NUMBER

Model A2103, A2104 is electrically identical to Model A1921. Three model numbers are allocated for marketing and logistic purposes only. A1921 was used to perform all final tests.

5.3. MAXIMUM OUTPUT POWER

ERP/EIRP LIMIT

FCC: §2.1046, §22.913, §24.232, §27.50, §90.635, §90.541.

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015

KDB 971168 D01 Section 5.6

KDB 412172 D01 Determining ERP and EIRP v01r01

$ERP/EIRP = P_{Meas} + GT - LC$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = 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:

LTE BAND 2

Part 24 / RSS 133								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-1.30						
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	1909.3	25.0	23.70	0.234	1089.8	1M09G7W
	16QAM			24.3	23.00	0.200	1093.5	1M09D7W
	64QAM			24.0	22.70	0.186	1093.2	1M09D7W
3.0	QPSK	1851.5	1908.5	25.0	23.70	0.234	2706.7	2M71G7W
	16QAM			24.3	23.00	0.200	2714.2	2M71D7W
	64QAM			23.9	22.60	0.182	2710.1	2M71D7W
5.0	QPSK	1852.5	1907.5	25.0	23.70	0.234	4501.1	4M50G7W
	16QAM			24.4	23.10	0.204	4499.8	4M50D7W
	64QAM			23.9	22.60	0.182	4497.9	4M50D7W
10.0	QPSK	1855.0	1905.0	25.0	23.70	0.234	9019.5	9M02G7W
	16QAM			24.4	23.10	0.204	9002.2	9M00D7W
	64QAM			23.9	22.60	0.182	8991.8	8M99D7W
15.0	QPSK	1857.5	1902.5	25.0	23.70	0.234	13486	13M5G7W
	16QAM			24.4	23.10	0.204	13495	13M5D7W
	64QAM			24.0	22.70	0.186	13486	13M5D7W
20.0	QPSK	1860.0	1900.0	25.0	23.70	0.234	17948	17M9G7W
	16QAM			24.5	23.20	0.209	17950	18M0D7W
	64QAM			24.1	22.80	0.191	17947	17M9D7W

LTE BAND 5

Part 22H								
ERP Limit (W)		7.00						
Antenna Gain (dBi)		-6.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	824.7	848.3	25.5	17.25	0.053	1091.2	1M09G7W
	16QAM			24.8	16.55	0.045	1091.3	1M09D7W
	64QAM			23.9	15.65	0.037	1094.1	1M09D7W
3.0	QPSK	825.5	847.5	25.5	17.25	0.053	2704.6	2M70G7W
	16QAM			24.9	16.65	0.046	2709.5	2M71D7W
	64QAM			23.8	15.55	0.036	2711.7	2M71D7W
5.0	QPSK	826.5	846.5	25.5	17.25	0.053	4493.9	4M49G7W
	16QAM			24.9	16.65	0.046	4502.5	4M50D7W
	64QAM			23.8	15.55	0.036	4506.9	4M51D7W
10.0	QPSK	829.0	844.0	25.5	17.25	0.053	9001	9M00G7W
	16QAM			24.9	16.65	0.046	8999.4	9M00D7W
	64QAM			23.9	15.65	0.037	9005.7	9M01D7W

LTE BAND 7

Part 27 / RSS 199								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-4.00						
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	2502.5	2567.5	25.0	21.00	0.126	4502.2	4M50G7W
	16QAM			24.4	20.40	0.110	4505.2	4M51D7W
	64QAM			24.2	20.20	0.105	4503.3	4M50D7W
10.0	QPSK	2505.0	2565.0	25.0	21.00	0.126	9015.9	9M02G7W
	16QAM			24.4	20.40	0.110	9031.6	9M03D7W
	64QAM			23.6	19.60	0.091	9024.6	9M02D7W
15.0	QPSK	2507.5	2562.5	25.0	21.00	0.126	13497	13M5G7W
	16QAM			24.5	20.50	0.112	13502	13M5D7W
	64QAM			23.7	19.70	0.093	13477	13M5D7W
20.0	QPSK	2510.0	2560.0	25.0	21.00	0.126	18006	18M0G7W
	16QAM			24.5	20.50	0.112	17940	17M9D7W
	64QAM			23.8	19.80	0.095	17945	17M9D7W

LTE BAND 12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.00						
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	25.5	17.35	0.054	1092.4	1M09G7W
	16QAM			24.7	16.55	0.045	1091.3	1M09D7W
	64QAM			23.8	15.65	0.037	1095.3	1M10D7W
3.0	QPSK	700.5	714.5	25.5	17.35	0.054	2708.1	2M71G7W
	16QAM			24.7	16.55	0.045	2704.8	2M70D7W
	64QAM			23.8	15.65	0.037	2706.5	2M71D7W
5.0	QPSK	701.5	713.5	25.5	17.35	0.054	4493.1	4M49G7W
	16QAM			24.9	16.75	0.047	4507.1	4M51D7W
	64QAM			23.8	15.65	0.037	4498.2	4M50D7W
10.0	QPSK	704.0	711.0	25.5	17.39	0.055	9018.5	9M02G7W
	16QAM			24.8	16.65	0.046	9022.4	9M02D7W
	64QAM			23.7	15.55	0.036	9011.8	9M01D7W

LTE BAND 13

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	779.5	784.5	25.5	16.95	0.050	4497.6	4M50G7W
	16QAM			25.0	16.45	0.044	4497.2	4M50D7W
	64QAM			23.7	15.15	0.033	4495.6	4M50D7W
10.0	QPSK	782.0	782.0	25.5	16.95	0.050	8995.9	9M00G7W
	16QAM			24.9	16.35	0.043	9019.4	9M02D7W
	64QAM			23.8	15.25	0.033	8986.8	8M99D7W

LTE BAND 14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	790.5	795.5	25.5	16.95	0.050	4517.4	4M52G7W
	16QAM			24.9	16.35	0.043	4500.5	4M50D7W
	64QAM			23.8	15.25	0.033	4546.7	4M55D7W
10.0	QPSK	793.0	793.0	25.5	16.95	0.050	9012.8	9M01G7W
	16QAM			24.8	16.25	0.042	9021.3	9M02D7W
	64QAM			23.7	15.15	0.033	8993.3	8M99D7W

LTE BAND 17

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.00						
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	25.5	17.35	0.054	4501	4M50G7W
	16QAM			24.9	16.75	0.047	4506.5	4M51D7W
	64QAM			23.8	15.65	0.037	4502.6	4M50D7W
10.0	QPSK	709.0	711.0	25.5	17.35	0.054	9014.2	9M01G7W
	16QAM			24.8	16.65	0.046	8989	8M99D7W
	64QAM			23.8	15.65	0.037	9017.2	9M02D7W

LTE BAND 25

Part 24 / RSS 133								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-1.30						
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	25.0	23.70	0.234	1091.5	1M09G7W
	16QAM			24.3	23.00	0.200	1090.2	1M09D7W
	64QAM			23.9	22.60	0.182	1091.1	1M09D7W
3.0	QPSK	1851.5	1913.5	25.0	23.70	0.234	2708.1	2M71G7W
	16QAM			24.3	23.00	0.200	2709.1	2M71D7W
	64QAM			23.7	22.40	0.174	2710.6	2M71D7W
5.0	QPSK	1852.5	1912.5	25.0	23.70	0.234	4496.5	4M50G7W
	16QAM			24.4	23.10	0.204	4509.9	4M51D7W
	64QAM			23.8	22.50	0.178	4489.9	4M49D7W
10.0	QPSK	1855.0	1910.0	25.0	23.70	0.234	9000.9	9M00G7W
	16QAM			24.4	23.10	0.204	9019.4	9M02D7W
	64QAM			23.9	22.60	0.182	9010	9M01D7W
15.0	QPSK	1857.5	1907.5	25.0	23.70	0.234	13492	13M5G7W
	16QAM			24.3	23.00	0.200	13493	13M5D7W
	64QAM			23.8	22.50	0.178	13488	13M5D7W
20.0	QPSK	1860.0	1905.0	25.0	23.70	0.234	17974	18M0G7W
	16QAM			24.4	23.10	0.204	17965	18M0D7W
	64QAM			24.0	22.70	0.186	17964	18M0D7W

LTE BAND 26 (Part 90S)

Part 90S								
ERP Limit (W)		100.00						
Antenna Gain (dBi)		-6.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.5	17.25	0.053	1095.0	1M10G7W
	16QAM			24.9	16.65	0.046	1095.2	1M10D7W
	64QAM			23.9	15.65	0.037	1088.7	1M09D7W
3.0	QPSK	815.5	822.5	25.5	17.25	0.053	2707.5	2M71G7W
	16QAM			24.9	16.65	0.046	2705.6	2M71D7W
	64QAM			23.9	15.65	0.037	2706.0	2M71D7W
5.0	QPSK	816.5	821.5	25.5	17.25	0.053	4495.4	4M50G7W
	16QAM			25.0	16.75	0.047	4500.0	4M50D7W
	64QAM			23.9	15.65	0.037	4514.9	4M51D7W
10.0	QPSK	819.0	819.0	25.5	17.25	0.053	8996.7	9M00G7W
	16QAM			24.8	16.55	0.045	9008.7	9M01D7W
	64QAM			23.8	15.55	0.036	8980.0	8M98D7W

LTE BAND 30

Part 27 / RSS 195								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)		-2.30						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	23.5	21.20	0.132	4497.8	4M50G7W
	16QAM			22.9	20.60	0.115	4497.9	4M50D7W
	64QAM			21.7	19.40	0.087	4507.6	4M51D7W
10.0	QPSK	2310.0	2310.0	23.5	21.20	0.132	9006.2	9M01G7W
	16QAM			22.7	20.40	0.110	9019.6	9M02D7W
	64QAM			21.7	19.40	0.087	9019.8	9M02D7W

LTE BAND 41

EIRP Limit (W)		2.00						
Antenna Gain (dBi)		-4.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2498.5	2687.5	27.0	22.50	0.178	4485	4M49G7W
	16QAM			26.3	21.80	0.151	4485.5	4M49D7W
	64QAM			25.2	20.70	0.117	4499.4	4M50D7W
10.0	QPSK	2501.0	2685.0	27.0	22.50	0.178	8992	8M99G7W
	16QAM			26.2	21.70	0.148	9006.7	9M01D7W
	64QAM			25.2	20.70	0.117	9002.1	9M00D7W
15.0	QPSK	2503.5	2682.5	27.0	22.50	0.178	13440	13M4G7W
	16QAM			26.3	21.80	0.151	13465	13M5D7W
	64QAM			25.3	20.80	0.120	13453	13M5D7W
20.0	QPSK	2506.0	2680.0	27.0	22.50	0.178	17977	18M0G7W
	16QAM			26.3	21.80	0.151	17942	17M9D7W
	64QAM			25.3	20.80	0.120	17927	17M9D7W

LTE BAND 66

Part 27 / RSS 139								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)		-2.30						
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	24.9	22.60	0.182	1091.4	1M09G7W
	16QAM			24.2	21.90	0.155	1092.8	1M09D7W
	64QAM			23.1	20.80	0.120	1091	1M09D7W
3.0	QPSK	1711.5	1778.5	24.8	22.50	0.178	2702.5	2M70G7W
	16QAM			24.2	21.90	0.155	2704.5	2M70D7W
	64QAM			23.1	20.80	0.120	2704.2	2M70D7W
5.0	QPSK	1712.5	1777.5	25.0	22.70	0.186	4490.6	4M49G7W
	16QAM			24.4	22.10	0.162	4498.5	4M50D7W
	64QAM			23.3	21.00	0.126	4498.6	4M50D7W
10.0	QPSK	1715.0	1775.0	25.0	22.70	0.186	9003.1	9M00G7W
	16QAM			24.3	22.00	0.158	9014.7	9M01D7W
	64QAM			23.3	21.00	0.126	9005.5	9M01D7W
15.0	QPSK	1717.5	1772.5	24.9	22.60	0.182	13463	13M5G7W
	16QAM			24.1	21.80	0.151	13471	13M5D7W
	64QAM			23.2	20.90	0.123	13464	13M5D7W
20.0	QPSK	1720.0	1770.0	25.0	22.70	0.186	17942	17M9G7W
	16QAM			24.3	22.00	0.158	17957	18M0D7W
	64QAM			23.4	21.10	0.129	17954	18M0D7W

LTE BAND 71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)		-6.40						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	665.5	695.5	25.5	16.95	0.050	4496.3	4M50G7W
	16QAM			24.8	16.25	0.042	4492.6	4M49D7W
	64QAM			23.7	15.15	0.033	4503	4M50D7W
10.0	QPSK	668.0	693.0	25.5	16.95	0.050	9001.3	9M00G7W
	16QAM			24.7	16.15	0.041	9009.2	9M01D7W
	64QAM			23.7	15.15	0.033	9015.3	9M02D7W
15.0	QPSK	670.5	690.5	25.5	16.95	0.050	13463	13M5G7W
	16QAM			24.9	16.35	0.043	13494	13M5D7W
	64QAM			24.0	15.45	0.035	13500	13M5D7W
20.0	QPSK	673.0	688.0	25.5	16.95	0.050	17899	17M9G7W
	16QAM			24.9	16.35	0.043	17925	17M9D7W
	64QAM			24.0	15.45	0.035	17929	17M9D7W

5.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 00.28.02.

5.5. MAXIMUM ANTENNA GAIN

Please see table below:

Frequency (MHz)	Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Ant 3 Gain (dBi)	Ant 4 Gain (dBi)
660	-6.9	-6.0	N/A	N/A
670	-6.5	-6.4	N/A	N/A
680	-6.6	-6.5	N/A	N/A
690	-6.4	-6.6	N/A	N/A
700	-6.4	-6.3	N/A	N/A
710	-6.2	-6.3	N/A	N/A
720	-6.0	-6.8	N/A	N/A
770	-7.0	-6.7	N/A	N/A
780	-6.8	-6.2	N/A	N/A
790	-6.4	-5.8	N/A	N/A
810	-6.7	-6.7	N/A	N/A
820	-6.5	-5.6	N/A	N/A
830	-6.1	-6.2	N/A	N/A
840	-6.2	-6.9	N/A	N/A
850	-6.5	-7.1	N/A	N/A
860	-6.8	-7.3	N/A	N/A
1700	-6.0	-4.6	-3.7	-6.8
1710	-5.7	N/A	-3.4	-6.4
1720	-5.6	-4.1	-3.2	-6.2
1730	-5.5	N/A	-3.1	-6.2
1740	-5.4	-4.4	-2.8	-6.3
1750	-5.2	N/A	-2.6	-6.1
1760	-5.2	-4.3	-2.5	-5.8
1770	-5.0	N/A	-2.3	-5.7
1840	-5.7	-3.3	N/A	-5.3
1850	-5.8	N/A	N/A	-5.4
1860	-6.0	-2.9	N/A	-5.3
1870	-6.3	N/A	-1.8	-5.2
1880	-6.2	-2.4	-1.9	-5.1
1890	-6.3	N/A	-1.8	-5.2
1900	-6.2	-2.0	-1.8	-5.0
1910	-6.2	N/A	-1.3	-4.9
1920	-6.2	-1.9	-1.4	-4.9
2300	-4.6	-3.3	-2.3	N/A
2310	-5.0	N/A	-2.6	N/A
2320	-4.9	-4.1	-3.1	N/A
2330	-5.0	N/A	-3.5	N/A
2500	-5.0	-5.0	-5.0	-2.8
2510	-5.1	N/A	-4.8	-2.9
2520	-5.3	-4.9	-5.1	-2.9
2530	-5.2	N/A	-4.8	-2.9
2540	-5.2	-5.0	-4.3	-3.0
2550	-4.8	N/A	-4.3	-3.0
2560	-4.5	-5.0	-4.0	-2.8

2570	-4.5	N/A	-4.3	-2.6
2580	-4.6	-5.0	-4.2	-2.4
2590	-4.6	N/A	-4.4	-2.4
2600	-5.0	-5.5	-4.4	-2.5
2610	-4.9	N/A	-4.1	-2.5
2620	-5.0	-5.7	-4.5	-2.5
2630	-5.0	N/A	-4.5	-2.4
2640	-4.8	-6.0	-4.6	-2.4
2650	-4.9	N/A	-4.5	-2.3
2660	-4.8	-6.3	-4.6	-2.3
2670	-5.0	N/A	-4.8	-2.3
2680	-4.8	-6.5	-4.9	-2.3
2690	-4.9	N/A	-5.2	-2.1
2700	-4.5	-6.3	-5.3	-1.9

5.6. WORST-CASE CONFIGURATION AND MODE

The EUT supports LTE Bands of:

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 66 and Band 71.

LTE Band 4 (1710-1755MHz) 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 26 (824-849MHz) is covered by LTE Band 5 of same rule since they have the same output power and supported bandwidths.

According to the Tune-up procedure, power class 2 (PC2) used to measure LTE band 41 powers.

The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK and 16QAM results were worst case. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

Conducted tests were performed on at Ant. 1 as worst case since it has higher output powers.

Radiated test was investigated in three orthogonal orientations X, Y and Z on ant 1/ant 2/ant 3/ant 4. it was determined that Y (Landscape) orientation was the worst-case orientation for band 5, band 7, band 13, band 17, band 26, band 30, band 38, band 41, band 71 and X (Flatbed) orientation was the worst-case orientation for band 2, band 4, band 25 without AC/DC adapter or earphone.

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz within 20dB of the limit.

For simultaneous transmission of multiple channels in the 2.4 /5 GHz and Cellular bands, No noticeable emission was found.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop AC/DC adapter	Delta Electronic	A1343	ADP-85EBT V85
Laptop	Apple	MacBook Pro	73008ACB7XJ

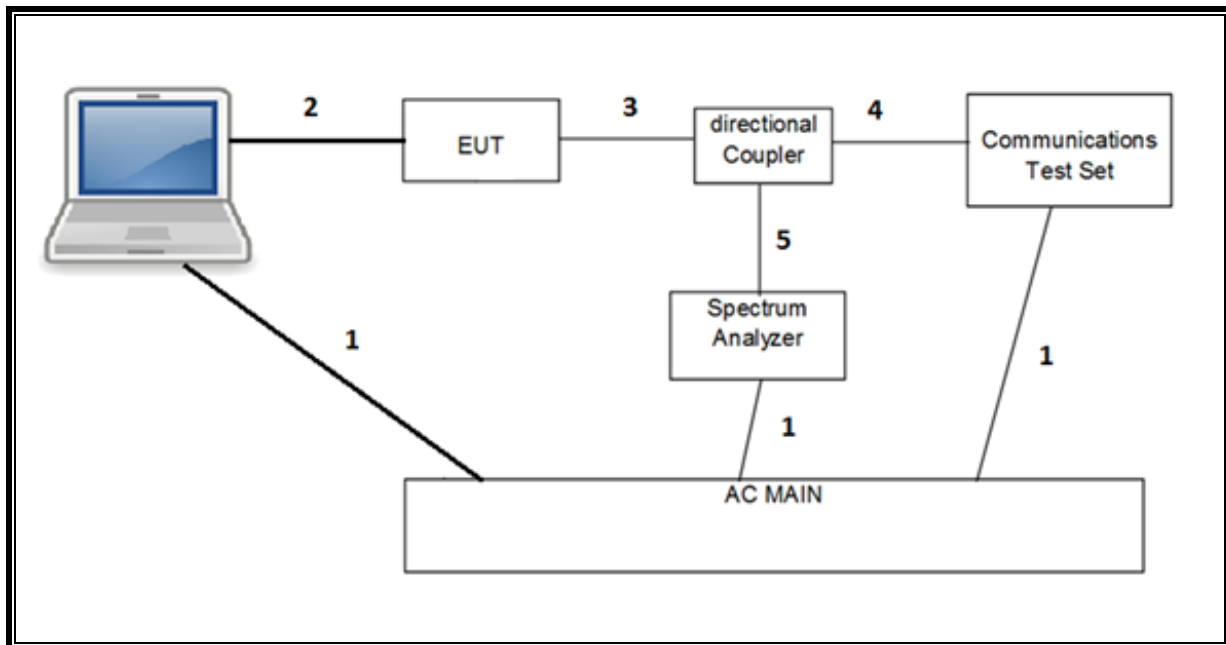
I/O CABLES (RF Conducted Test)

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

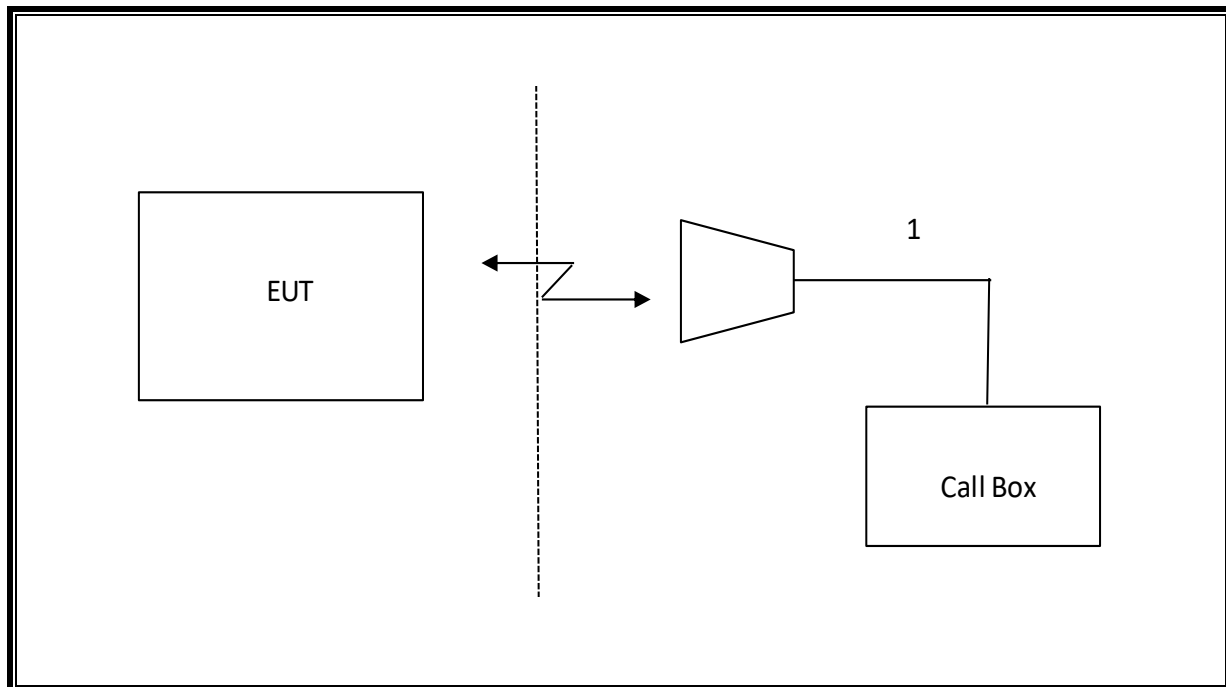
I/O CABLES (RF Radiated Test)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5.0m	N/A

CONDUCTED SETUP



RADIATED SETUP



6. 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	T711	01/30/2019
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T408	12/15/2018
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-840	T742	12/04/2018
*Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T173	06/24/2018
Spectrum Analyzer, PSA, 3Hz to 44GHz	Agilent (Keysight) Technologies	E4446A	T177	04/12/2019
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T119	04/03/2019
*Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T407	04/14/2018
*Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-840	T491	06/01/2018
*Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T834	06/01/2018
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A-544	T341	11/12/2018
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T346	04/03/2019
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T906	02/16/2019
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB1	T185	04/19/2019
*Amplifier, 1 to 18GHz, 35dB	Amplicial	AMP1G18-35	T1569	05/31/2018
*Filter, HPF 1.2GHz	MICROTRONICS	WHKX1.2/15G-6ST	T1182	06/1/2018
Filter, HPF 4GHz	MICROTRONICS	HPM13351	T1239	08/11/2018
Filter, HPF 3.0GHz	MICROTRONICS	HPM17543	T487	12/04/2018
Power Meter, P-series single channel	Keysight	N1912A	T1272	05/1/2019
Power Sensor	Keysight	N1921A	T1225	04/10/2019
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T1154	09/05/2018
Wideband Communication Test Set	Rohde & Schwarz	CMW500	T1871	02/19/2019
Wideband Communication Test Set	Rohde & Schwarz	CMW500	T979	02/17/2019
Wideband Communication Test Set	Rohde & Schwarz	CMW500	T959	02/17/2019
*Wideband Communication Test Set	Rohde & Schwarz	CMW500	T956	06/22/2018
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	Ver 1.7, November 2015	
Power Measurement Software	UL	UL RF	Ver 2.2, June 2017	

Note: * Indicates on equipment list above are past due of the calibration dates, However, all tests are completed before equipment expiration dates indicated above

7. 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 TS36.101 specification.

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

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

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

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

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

Network Signalling value	Requirements (sub-clause)	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	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66
- LTE Band 71

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:

7.1. ANT 1, ANT 2, ANT 3 AND ANT 4

7.1.1. LTE BAND 2

ID:	10646	Date:	4/23/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 2 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18607	18900	19193	18607	18900	19193	18607	18900	19193	18607	18900	19193
1.4	QPSK	1	0	25.4	25.5	25.3	20.3	20.4	20.4	24.8	25.0	24.9	21.2	21.0	20.8
		1	2	25.4	25.5	25.4	20.4	20.5	20.5	24.8	25.0	24.9	21.2	21.0	20.9
		1	5	25.4	25.5	25.4	20.4	20.4	20.5	24.9	25.0	25.0	21.2	21.0	21.0
		3	0	25.4	25.5	25.4	20.3	20.4	20.4	24.8	25.0	25.0	21.1	21.0	21.0
		3	1	25.4	25.5	25.4	20.3	20.4	20.4	24.8	25.0	25.0	21.1	21.0	20.9
		3	2	25.3	25.4	25.4	20.3	20.4	20.4	24.8	24.9	25.0	21.1	20.9	20.9
	16QAM	6	0	24.3	24.4	24.4	19.3	19.3	19.4	23.8	23.9	24.0	20.1	19.9	19.9
		1	0	24.7	24.9	24.6	19.6	19.7	19.6	24.2	24.2	24.1	20.4	20.4	20.1
		1	2	24.6	24.9	24.7	19.5	19.7	19.6	24.2	24.2	24.2	20.4	20.3	20.1
		1	5	24.7	24.8	24.7	19.6	19.7	19.7	24.2	24.2	24.3	20.4	20.3	20.2
		3	0	24.5	24.6	24.5	19.4	19.6	19.5	23.9	24.1	24.1	20.2	20.1	20.0
		3	1	24.5	24.6	24.5	19.4	19.6	19.5	23.9	24.1	24.1	20.2	20.1	20.1
	64QAM	3	2	24.5	24.5	24.5	19.4	19.5	19.5	23.9	24.0	24.1	20.2	20.0	20.0
		6	0	23.4	23.4	23.5	18.4	18.5	18.5	22.8	23.0	23.1	19.2	19.0	19.0
		1	0	23.7	23.6	23.8	18.5	18.9	18.7	23.7	24.0	23.6	20.3	20.1	20.2
		1	2	23.8	23.6	23.8	18.5	18.8	18.7	23.7	24.0	23.6	20.2	20.2	20.2
		1	5	23.8	23.6	23.8	18.6	18.9	18.8	23.7	23.9	23.7	20.3	20.0	20.3
		3	0	23.6	23.6	23.6	18.4	18.8	18.6	23.5	23.8	23.6	20.1	20.0	20.1
	64QAM	3	1	23.6	23.6	23.6	18.4	18.7	18.6	23.5	23.8	23.6	20.1	20.0	20.1
		3	2	23.6	23.5	23.6	18.5	18.7	18.6	23.5	23.7	23.5	20.1	19.9	20.1
		6	0	22.4	22.5	22.5	17.4	17.5	17.5	22.5	22.6	22.5	18.9	18.9	18.9

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18615	18900	19185	18615	18900	19185	18615	18900	19185	18615	18900	19185
3.0	QPSK	1	0	25.5	25.5	25.5	20.3	20.4	20.4	24.7	25.0	24.8	21.1	21.0	20.9
		1	7	25.5	25.5	25.5	20.4	20.5	20.4	24.8	24.9	24.9	21.2	21.0	20.9
		1	14	25.4	25.5	25.5	20.4	20.4	20.5	24.8	24.9	25.0	21.1	20.9	21.0
		8	0	24.4	24.6	24.4	19.3	19.5	19.3	23.8	23.9	23.9	20.1	20.0	19.8
		8	4	24.4	24.6	24.4	19.3	19.4	19.3	23.8	23.9	23.9	20.1	19.9	19.8
		8	7	24.4	24.5	24.4	19.3	19.4	19.3	23.8	23.9	23.9	20.1	19.9	19.8
	16QAM	15	0	24.4	24.5	24.4	19.3	19.4	19.3	23.8	23.8	23.9	20.1	19.9	19.8
		1	0	24.7	24.8	24.7	19.6	19.9	19.7	24.1	24.2	24.2	20.4	20.4	20.2
		1	7	24.8	24.8	24.8	19.6	19.8	19.8	24.3	24.2	24.2	20.6	20.3	20.2
		1	14	24.7	24.8	24.8	19.7	19.7	19.8	24.1	24.0	24.3	20.5	20.3	20.2
		8	0	23.4	23.6	23.5	18.4	18.5	18.4	22.8	23.0	22.9	19.2	19.1	18.9
		8	4	23.5	23.6	23.5	18.4	18.6	18.4	22.8	23.0	22.9	19.2	19.1	18.9
	64QAM	8	7	23.5	23.6	23.5	18.4	18.5	18.4	22.8	22.9	22.9	19.2	19.0	18.9
		15	0	23.5	23.5	23.5	18.4	18.4	18.4	22.8	22.9	22.9	19.1	18.9	18.9
		1	0	23.6	23.6	23.7	18.5	18.7	18.5	23.7	23.9	23.6	20.2	19.9	19.9
		1	7	23.7	23.8	23.8	18.7	18.7	18.7	23.8	23.7	23.6	20.1	20.0	20.1
		1	14	23.7	23.6	23.7	18.7	18.6	18.6	23.8	23.6	23.7	20.1	20.1	20.1
		8	0	22.5	22.6	22.5	17.4	17.6	17.5	22.5	22.6	22.4	18.9	18.9	18.8
	64QAM	8	4	22.5	22.6	22.5	17.4	17.6	17.4	22.5	22.6	22.4	18.9	18.9	18.8
		8	7	22.5	22.6	22.5	17.4	17.5	17.5	22.5	22.5	22.4	18.9	18.9	18.8
		15	0	22.4	22.5	22.5	17.3	17.4	17.4	22.5	22.5	22.4	18.8	18.8	18.7

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average (dBm)			Conducted Average			Conducted Average			Conducted Average		
				18625	18900	19175	18625	18900	19175	18625	18900	19175	18625	18900	19175
5.0	QPSK	1	0	25.4	25.4	25.4	20.4	20.5	20.4	24.8	25.0	24.8	21.2	21.2	20.9
		1	12	25.4	25.4	25.4	20.4	20.5	20.5	24.9	24.9	24.8	21.2	21.0	20.9
		1	24	25.3	25.5	25.5	20.5	20.5	20.5	24.9	24.9	25.0	21.2	21.0	21.1
		12	0	24.4	24.5	24.4	19.4	19.5	19.5	23.8	23.9	23.9	20.2	20.0	19.9
		12	6	24.3	24.6	24.4	19.5	19.5	19.4	23.8	23.9	23.9	20.2	20.0	19.9
		12	11	24.3	24.5	24.4	19.4	19.5	19.5	23.8	23.9	23.9	20.2	20.0	19.9
	16QAM	25	0	24.4	24.5	24.5	19.5	19.5	19.5	23.8	23.9	23.9	20.2	20.0	20.0
		1	0	24.8	24.8	24.8	19.8	19.9	19.8	24.1	24.3	24.3	20.7	20.5	20.3
		1	12	24.7	24.8	24.7	19.8	19.9	19.8	24.2	24.2	24.2	20.7	20.4	20.3
		1	24	24.7	24.8	24.8	19.8	19.9	20.0	24.1	24.2	24.4	20.7	20.4	20.4
		12	0	23.6	23.7	23.6	18.6	18.7	18.7	22.9	23.1	22.9	19.3	19.2	19.1
		12	6	23.5	23.7	23.6	18.6	18.7	18.6	22.9	23.1	22.9	19.4	19.2	19.1
	64QAM	12	11	23.5	23.6	23.6	18.6	18.7	18.6	23.0	23.0	23.0	19.4	19.1	19.1
		25	0	23.5	23.6	23.5	18.5	18.6	18.6	22.9	22.9	23.0	19.4	19.1	19.1
		1	0	23.7	23.7	23.7	18.7	18.8	18.7	23.7	23.9	23.8	20.3	20.2	20.3
		1	12	23.6	23.7	23.7	18.7	18.8	18.7	23.8	23.8	23.7	20.3	20.1	20.2
		1	24	23.6	23.8	23.8	18.7	18.8	18.9	23.8	23.8	23.8	20.3	20.2	20.3
		12	0	22.5	22.6	22.5	17.5	17.7	17.6	22.5	22.7	22.5	19.0	19.0	19.1
		12	6	22.4	22.6	22.5	17.5	17.7	17.6	22.6	22.7	22.5	19.1	19.0	19.0
		12	11	22.5	22.6	22.5	17.5	17.6	17.6	22.6	22.7	22.5	19.1	19.0	19.0
		25	0	22.4	22.5	22.5	17.5	17.5	17.6	22.6	22.6	22.5	19.0	18.9	19.0

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average (dBm)			Conducted Average			Conducted Average (dBm)			Conducted Average		
				18650	18900	19150	18650	18900	19150	18650	18900	19150	18650	18900	19150
10.0	QPSK	1	0	25.3	25.3	25.4	20.3	20.3	20.5	24.8	25.0	25.0	21.2	21.2	21.1
		1	24	25.2	25.5	25.3	20.3	20.4	20.3	24.9	25.0	24.8	21.2	21.1	21.0
		1	49	25.1	25.3	25.3	20.2	20.4	20.4	24.8	24.9	25.0	21.2	21.0	21.1
		25	0	24.1	24.2	24.2	19.2	19.3	19.3	23.8	23.9	23.9	20.2	20.0	19.9
		25	12	24.1	24.2	24.1	19.2	19.3	19.2	23.8	23.9	23.8	20.1	20.0	19.9
		25	24	24.0	24.2	24.2	19.1	19.2	19.2	23.7	23.8	23.9	20.0	19.9	19.9
	16QAM	50	0	24.1	24.2	24.2	19.2	19.2	19.2	23.7	23.8	23.9	20.1	19.9	19.9
		1	0	24.6	24.6	24.7	19.5	19.6	19.7	24.2	24.4	24.4	20.6	20.4	20.5
		1	24	24.5	24.7	24.5	19.6	19.7	19.6	24.3	24.4	24.1	20.6	20.5	20.4
		1	49	24.4	24.6	24.7	19.5	19.6	19.8	24.1	24.3	24.3	20.5	20.2	20.5
		25	0	23.3	23.3	23.4	18.3	18.4	18.4	22.9	23.0	23.0	19.3	19.1	19.0
		25	12	23.2	23.4	23.3	18.3	18.4	18.4	22.9	23.0	22.9	19.2	19.2	19.0
	64QAM	25	24	23.1	23.3	23.4	18.2	18.3	18.4	22.8	22.9	23.0	19.2	19.1	19.0
		50	0	23.1	23.2	23.3	18.2	18.2	18.3	22.8	22.8	22.9	19.2	19.0	18.9
		1	0	23.5	23.5	23.7	18.5	18.6	18.7	23.7	23.9	23.8	20.3	20.1	20.3
		1	24	23.4	23.6	23.5	18.6	18.7	18.5	23.9	23.9	23.6	20.2	20.2	20.3
		1	49	23.3	23.6	23.7	18.5	18.6	18.7	23.7	23.8	23.7	20.1	20.2	20.3
		25	0	22.3	22.4	22.4	17.3	17.4	17.4	22.6	22.6	22.5	19.1	19.0	19.1
		25	12	22.2	22.4	22.3	17.3	17.4	17.4	22.5	22.6	22.5	19.0	19.0	19.0
		25	24	22.2	22.3	22.4	17.2	17.4	17.4	22.5	22.6	22.5	18.9	19.0	19.0
		50	0	22.2	22.2	22.3	17.2	17.3	17.3	22.4	22.5	22.5	18.9	18.9	18.9

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation n	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18675	18900	19125	18675	18900	19125	18675	18900	19125	18675	18900	19125
				1857.5	1880.0	1902.5	1857.5	1880.0	1902.5	1857.5	1880.0	1902.5	1857.5	1880.0	1902.5
15.0	QPSK	1	0	25.3	25.3	25.5	20.2	20.3	20.5	24.8	25.0	24.9	21.2	21.0	21.0
		1	37	25.2	25.4	25.5	20.2	20.3	20.4	24.8	24.9	25.0	21.1	20.9	20.9
		1	74	25.1	25.4	25.4	20.1	20.3	20.4	24.7	24.8	24.9	21.0	20.8	20.9
		36	0	24.2	24.2	24.4	19.1	19.2	19.4	23.8	23.8	24.0	20.1	19.9	19.8
		36	16	24.1	24.3	24.3	19.1	19.3	19.3	23.7	23.8	23.8	19.9	19.8	19.7
		36	35	24.0	24.3	24.3	19.0	19.2	19.2	23.7	23.7	23.7	19.9	19.7	19.7
		75	0	24.1	24.3	24.4	19.1	19.2	19.3	23.7	23.7	23.9	19.9	19.8	19.8
	16QAM	1	0	24.7	24.7	24.8	19.5	19.6	19.8	24.2	24.4	24.2	20.5	20.4	20.2
		1	37	24.4	24.7	24.7	19.5	19.6	19.6	24.1	24.3	24.2	20.4	20.3	20.1
		1	74	24.4	24.6	24.7	19.4	19.6	19.6	24.1	24.2	24.1	20.4	20.2	20.1
		36	0	23.3	23.3	23.5	18.3	18.3	18.4	22.8	22.9	23.0	19.1	19.0	18.9
		36	16	23.2	23.4	23.4	18.1	18.3	18.4	22.7	22.9	22.9	19.0	18.9	18.9
		36	35	23.1	23.4	23.4	18.1	18.3	18.3	22.8	22.8	22.9	19.0	18.8	18.9
		75	0	23.1	23.3	23.4	18.1	18.2	18.3	22.7	22.8	22.9	18.9	18.8	18.9
	64QAM	1	0	23.6	23.7	23.8	18.5	18.5	18.8	23.8	24.0	23.7	20.2	20.1	20.2
		1	37	23.5	23.7	23.7	18.5	18.6	18.7	23.8	23.9	23.8	20.0	20.2	20.3
		1	74	23.4	23.7	23.7	18.4	18.6	18.6	23.6	23.6	23.7	20.0	20.2	20.2
		36	0	22.3	22.4	22.5	17.3	17.3	17.5	22.6	22.6	22.5	18.9	18.8	19.0
		36	16	22.2	22.5	22.5	17.2	17.4	17.4	22.5	22.6	22.5	18.8	18.9	19.0
		36	35	22.2	22.4	22.4	17.2	17.3	17.3	22.4	22.5	22.5	18.7	18.8	18.9
		75	0	22.1	22.3	22.4	17.1	17.2	17.3	22.4	22.5	22.4	18.7	18.7	18.9

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation n	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				18700	18900	19100	18700	18900	19100	18700	18900	19100	18700	18900	19100
				1860.0	1880.0	1900.0	1860.0	1880.0	1900.0	1860.0	1880.0	1900.0	1860.0	1880.0	1900.0
20.0	QPSK	1	0	25.4	25.4	25.5	20.3	20.3	20.4	24.9	25.0	24.9	21.2	21.0	20.8
		1	49	25.1	25.5	25.5	20.2	20.4	20.5	24.7	25.0	25.0	21.0	21.0	20.9
		1	99	25.4	25.5	25.5	20.3	20.4	20.4	25.0	24.9	24.9	21.1	20.9	20.9
		50	0	24.1	24.2	24.4	19.2	19.2	19.4	23.8	23.9	23.9	20.0	19.9	19.8
		50	24	24.0	24.3	24.3	19.1	19.2	19.3	23.7	23.8	23.9	19.9	19.8	19.8
		50	49	24.1	24.3	24.3	19.0	19.1	19.2	23.7	23.7	23.7	19.9	19.7	19.7
		100	0	24.1	24.3	24.4	19.1	19.2	19.4	23.8	23.8	23.9	20.0	19.8	19.8
	16QAM	1	0	24.7	24.7	24.8	19.6	19.6	19.8	24.2	24.5	24.2	20.5	20.5	20.2
		1	49	24.4	24.8	24.8	19.4	19.7	19.8	24.1	24.5	24.3	20.4	20.5	20.2
		1	99	24.7	24.8	24.7	19.6	19.7	19.7	24.2	24.4	24.2	20.4	20.3	20.2
		50	0	23.2	23.3	23.4	18.2	18.2	18.5	22.8	23.0	22.9	19.1	18.9	18.9
		50	24	23.1	23.3	23.4	18.1	18.2	18.4	22.8	22.8	23.0	19.0	18.8	18.9
		50	49	23.2	23.4	23.3	18.1	18.2	18.3	22.7	22.8	22.9	19.0	18.8	18.8
		100	0	23.1	23.3	23.4	18.2	18.2	18.4	22.8	22.8	23.0	19.0	18.8	18.9
	64QAM	1	0	23.7	23.7	23.9	18.7	18.7	18.9	23.9	24.0	23.6	20.3	19.9	20.3
		1	49	23.4	23.8	23.9	18.6	18.8	19.0	23.8	24.1	23.6	20.1	20.0	20.4
		1	99	23.8	23.8	23.8	18.7	18.8	18.8	24.0	23.8	23.5	20.3	20.1	20.3
		50	0	22.2	22.3	22.4	17.2	17.3	17.4	22.4	22.5	22.4	18.8	18.8	18.9
		50	24	22.1	22.4	22.5	17.1	17.2	17.4	22.4	22.5	22.4	18.7	18.8	18.9
		50	49	22.2	22.4	22.4	17.0	17.3	17.3	22.4	22.4	22.5	18.6	18.8	18.9
		100	0	22.1	22.3	22.5	17.1	17.2	17.4	22.4	22.5	22.4	18.7	18.7	19.0

7.1.2. LTE BAND 5

ID:	50820	Date:	4/24/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 5 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average		
				20407	20525	20643	20407	20525	20643
				824.7	836.5	848.3	824.7	836.5	848.3
1.4	QPSK	1	0	25.4	25.5	25.5	24.5	24.5	24.5
		1	2	25.3	25.5	25.5	24.5	24.5	24.4
		1	5	25.4	25.5	25.5	24.5	24.5	24.5
		3	0	25.4	25.4	25.5	24.4	24.5	24.5
		3	1	25.4	25.4	25.5	24.4	24.5	24.5
		3	2	25.4	25.4	25.5	24.4	24.5	24.5
	16QAM	6	0	24.4	24.4	24.5	23.4	23.4	23.4
		1	0	24.7	24.8	24.8	23.8	23.9	23.8
		1	2	24.6	24.7	24.7	23.7	23.8	23.7
		1	5	24.7	24.8	24.7	23.8	23.8	23.7
		3	0	24.6	24.6	24.6	23.6	23.6	23.6
		3	1	24.5	24.6	24.6	23.6	23.6	23.5
	64QAM	3	2	24.5	24.6	24.6	23.6	23.6	23.6
		6	0	23.5	23.6	23.6	22.5	22.6	22.6
		1	0	23.6	23.7	23.9	23.1	23.1	22.8
		1	2	23.7	23.7	23.8	23.1	23.0	22.8
		1	5	23.7	23.7	23.9	23.1	23.1	22.7
		3	0	23.6	23.6	23.7	22.9	22.9	22.6
	64QAM	3	1	23.6	23.6	23.7	22.9	22.9	22.6
		3	2	23.5	23.6	23.7	22.9	22.9	22.5
		6	0	22.5	22.6	22.6	21.9	21.8	21.5

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average (dBm)			Conducted Average (dBm)		
				20415	20525	20635	20415	20525	20635
				825.5	836.5	847.5	825.5	836.5	847.5
3.0	QPSK	1	0	25.4	25.5	25.4	24.3	24.3	24.5
		1	7	25.4	25.4	25.5	24.4	24.4	24.5
		1	14	25.4	25.3	25.5	24.4	24.3	24.3
		8	0	24.4	24.4	24.4	23.3	23.3	23.5
		8	4	24.4	24.4	24.4	23.3	23.3	23.4
		8	7	24.4	24.4	24.5	23.3	23.3	23.3
	16QAM	15	0	24.4	24.4	24.4	23.4	23.3	23.3
		1	0	24.7	24.8	24.7	23.7	23.7	23.8
		1	7	24.7	24.8	24.9	23.9	23.8	23.8
		1	14	24.7	24.6	24.8	23.8	23.7	23.6
		8	0	23.5	23.5	23.5	22.4	22.4	22.5
		8	4	23.5	23.5	23.5	22.4	22.4	22.5
	64QAM	8	7	23.4	23.5	23.5	22.4	22.4	22.5
		15	0	23.4	23.4	23.5	22.4	22.4	22.4
		1	0	23.7	23.7	23.6	22.9	22.9	22.5
		1	7	23.8	23.7	23.8	22.9	22.9	22.6
		1	14	23.6	23.7	23.8	23.0	22.9	22.4
		8	0	22.5	22.6	22.5	21.8	21.7	21.4
	64QAM	8	4	22.5	22.6	22.6	21.7	21.7	21.4
		8	7	22.5	22.6	22.6	21.7	21.7	21.4
		15	0	22.4	22.5	22.5	21.5	21.6	21.3

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth h (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				20425	20525	20625	20425	20525	20625
				826.5	836.5	846.5	826.5	836.5	846.5
5.0	QPSK	1	0	25.3	25.5	25.3	24.3	24.4	24.5
		1	12	25.3	25.3	25.3	24.3	24.3	24.4
		1	24	25.3	25.3	25.4	24.4	24.3	24.3
		12	0	24.4	24.5	24.4	23.3	23.3	23.5
		12	6	24.4	24.4	24.4	23.3	23.3	23.5
		12	11	24.4	24.3	24.4	23.3	23.2	23.4
		25	0	24.4	24.4	24.4	23.4	23.3	23.5
	16QAM	1	0	24.7	24.9	24.8	23.8	23.7	23.9
		1	12	24.7	24.8	24.8	23.9	23.7	23.9
		1	24	24.8	24.7	24.8	23.9	23.7	23.7
		12	0	23.5	23.7	23.5	22.5	22.5	22.7
		12	6	23.5	23.6	23.5	22.5	22.5	22.6
		12	11	23.5	23.5	23.6	22.4	22.4	22.5
		25	0	23.5	23.5	23.5	22.5	22.5	22.6
	64QAM	1	0	23.7	23.8	23.7	23.1	22.9	22.7
		1	12	23.7	23.7	23.7	23.0	22.8	22.6
		1	24	23.7	23.6	23.8	23.1	22.7	22.6
		12	0	22.5	22.6	22.5	21.6	21.7	21.5
		12	6	22.5	22.5	22.5	21.6	21.7	21.5
		12	11	22.5	22.4	22.6	21.7	21.6	21.4
		25	0	22.5	22.5	22.5	21.7	21.7	21.4

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				20450	20525	20600	20450	20525	20600
				829.0	836.5	844.0	829.0	836.5	844.0
10.0	QPSK	1	0	25.4	25.5	25.3	24.4	24.5	24.4
		1	24	25.4	25.4	25.4	24.5	24.3	24.5
		1	49	25.5	25.4	25.5	24.5	24.5	24.4
		25	0	24.3	24.4	24.3	23.3	23.3	23.4
		25	12	24.3	24.4	24.4	23.3	23.3	23.4
		25	24	24.4	24.3	24.4	23.5	23.3	23.4
		50	0	24.3	24.4	24.3	23.3	23.3	23.4
	16QAM	1	0	24.7	24.8	24.8	23.9	24.0	23.7
		1	24	24.8	24.7	24.8	23.9	23.7	23.8
		1	49	24.8	24.7	24.9	24.0	23.9	23.6
		25	0	23.5	23.6	23.4	22.4	22.5	22.6
		25	12	23.5	23.5	23.5	22.5	22.4	22.6
		25	24	23.5	23.4	23.5	22.6	22.4	22.6
		50	0	23.4	23.4	23.4	22.4	22.4	22.5
	64QAM	1	0	23.7	23.8	23.6	23.0	23.0	22.7
		1	24	23.8	23.7	23.7	23.0	22.8	22.6
		1	49	23.9	23.7	23.8	22.9	22.7	22.6
		25	0	22.5	22.6	22.5	21.6	21.8	21.4
		25	12	22.5	22.6	22.5	21.7	21.7	21.4
		25	24	22.6	22.5	22.5	21.7	21.6	21.5
		50	0	22.4	22.5	22.4	21.6	21.6	21.4

7.1.3. LTE BAND 7

ID:	10646	Date:	4/25/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
5.0	QPSK	1	0	25.5	25.3	25.2	19.9	19.9	19.7	24.6	24.9	24.2	18.7	19.4	19.2
		1	12	25.5	25.2	25.1	20.0	20.0	19.7	24.8	24.8	24.2	19.0	19.5	19.1
		1	24	25.5	25.3	25.2	20.0	20.0	19.7	25.0	24.9	24.1	19.2	19.5	19.2
		12	0	24.4	24.2	24.1	18.8	18.8	18.6	24.1	23.8	23.1	18.0	18.3	18.1
		12	6	24.4	24.2	24.1	18.9	18.8	18.5	24.0	23.8	23.1	18.1	18.3	18.1
		12	11	24.4	24.2	24.1	18.9	18.8	18.5	24.0	23.7	23.0	18.1	18.3	18.2
		25	0	24.4	24.2	24.1	18.9	18.8	18.5	24.0	23.7	23.1	18.1	18.3	18.1
	16QAM	1	0	24.9	24.7	24.4	19.3	19.3	18.9	24.1	24.2	23.6	18.3	18.8	18.6
		1	12	24.9	24.7	24.4	19.3	19.3	18.9	24.3	24.1	23.6	18.5	18.8	18.6
		1	24	24.9	24.7	24.5	19.4	19.4	18.9	24.4	24.2	23.4	18.7	18.8	18.6
		12	0	23.4	23.2	23.1	17.8	17.8	17.5	23.0	22.8	22.2	17.0	17.3	17.1
		12	6	23.4	23.1	23.1	17.8	17.9	17.5	23.0	22.8	22.1	17.0	17.3	17.1
		12	11	23.4	23.1	23.1	17.8	17.9	17.6	23.0	22.7	22.0	17.1	17.3	17.1
		25	0	23.4	23.1	23.1	17.8	17.9	17.5	22.9	22.7	22.1	16.9	17.3	17.1
	64QAM	1	0	23.7	23.6	23.4	18.2	18.2	17.8	23.3	24.2	23.5	18.6	18.9	18.6
		1	12	23.7	23.5	23.4	18.2	18.2	17.9	23.4	23.6	23.3	18.6	18.9	18.6
		1	24	23.7	23.6	23.5	18.3	18.3	18.0	23.5	23.7	23.3	18.7	18.9	18.5
		12	0	22.3	22.2	22.0	16.7	16.8	16.5	22.1	23.7	23.4	17.2	17.3	17.2
		12	6	22.2	22.1	22.1	16.9	16.8	16.5	22.1	22.0	21.9	17.1	17.4	17.2
		12	11	22.3	22.2	22.1	16.8	16.8	16.6	22.1	22.1	21.9	17.2	17.3	17.2
		12	11	22.3	22.2	22.1	16.8	16.8	16.6	22.1	22.1	21.9	17.2	17.3	17.2

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
10.0	QPSK	1	0	25.5	25.3	25.1	19.9	19.8	19.6	24.6	24.8	24.4	18.8	19.5	19.4
		1	24	25.5	25.3	25.1	20.0	20.0	19.6	24.9	24.9	24.3	19.3	19.5	19.3
		1	49	25.5	25.3	25.2	20.0	19.9	19.6	25.0	24.7	24.0	19.4	19.5	19.3
		25	0	24.5	24.3	24.1	18.9	18.8	18.6	24.1	23.8	23.3	18.2	18.4	18.4
		25	12	24.5	24.3	24.1	19.0	18.8	18.5	24.0	23.8	23.2	18.2	18.4	18.3
		25	24	24.5	24.3	24.1	18.9	18.9	18.5	23.9	23.8	23.2	18.3	18.5	18.3
		50	0	24.5	24.3	24.1	19.0	18.8	18.5	24.0	23.8	23.2	18.3	18.4	18.3
	16QAM	1	0	24.8	24.6	24.4	19.2	19.1	18.9	24.1	24.2	23.6	18.3	19.0	18.7
		1	24	24.7	24.5	24.4	19.3	19.2	18.8	24.3	24.2	23.5	18.7	19.0	18.5
		1	49	24.7	24.5	24.5	19.3	19.1	18.9	24.4	24.2	23.3	18.9	18.9	18.6
		25	0	23.5	23.3	23.2	18.0	17.9	17.7	23.1	22.9	22.4	17.2	17.5	17.5
		25	12	23.5	23.3	23.2	18.0	17.9	17.6	23.0	22.9	22.3	17.3	17.5	17.3
		25	24	23.5	23.2	23.2	18.0	17.9	17.6	22.9	22.9	22.2	17.3	17.5	17.3
		50	0	23.5	23.2	23.2	18.0	17.9	17.6	22.9	22.8	22.3	17.2	17.5	17.3
	64QAM	1	0	23.7	23.5	23.3	18.1	18.0	17.8	23.4	23.5	23.2	18.6	18.9	18.6
		1	24	23.7	23.6	23.3	18.2	18.2	17.9	23.4	23.5	23.2	18.7	18.9	18.5
		1	49	23.7	23.5	23.4	18.2	18.2	17.9	23.6	23.5	23.2	18.6	18.8	18.5
		25	0	22.5	22.4	22.2	17.0	16.9	16.7	22.2	22.2	22.1	17.3	17.5	17.5
		25	12	22.5	22.3	22.2	17.0	16.9	16.6	22.1	22.2	22.0	17.3	17.6	17.4
		25	24	22.5	22.3	22.2	17.0	17.0	16.6	22.1	22.2	22.0	17.2	17.5	17.4
		25	24	22.5	22.3	22.2	17.0	17.0	16.6	22.1	22.2	22.0	17.2	17.5	17.4

OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20825	21100	21375	20825	21100	21375	20825	21100	21375	20825	21100	21375
				2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5	2507.5	2535.0	2562.5
15.0	QPSK	1	0	25.4	25.2	25.0	19.9	19.7	19.7	24.7	24.8	24.4	18.8	19.5	19.4
		1	37	25.5	25.2	25.1	20.0	19.9	19.6	25.0	24.9	24.4	19.4	19.5	19.3
		1	74	25.3	25.1	25.1	19.8	19.8	19.6	24.9	24.8	24.1	19.3	19.4	19.2
		36	0	24.4	24.2	24.1	19.0	18.8	18.7	24.2	23.8	23.5	18.3	18.4	18.4
		36	16	24.5	24.3	24.2	19.0	18.9	18.6	24.1	23.9	23.4	18.3	18.5	18.4
		36	35	24.5	24.2	24.1	18.9	18.9	18.6	24.0	23.8	23.3	18.3	18.5	18.3
		75	0	24.4	24.3	24.2	18.9	18.9	18.6	24.0	23.8	23.4	18.3	18.4	18.4
	16QAM	1	0	24.7	24.6	24.3	19.1	19.1	18.9	24.2	24.2	23.7	18.3	19.0	18.8
		1	37	24.7	24.6	24.3	19.3	19.2	18.8	24.5	24.2	23.7	18.8	18.9	18.7
		1	74	24.6	24.5	24.4	19.2	19.2	18.8	24.4	24.3	23.4	18.7	18.9	18.6
		36	0	23.5	23.3	23.2	18.0	17.8	17.7	23.2	22.9	22.6	17.3	17.5	17.5
		36	16	23.5	23.3	23.2	18.0	17.9	17.6	23.0	23.0	22.4	17.3	17.5	17.4
		36	35	23.5	23.2	23.1	17.9	17.9	17.6	23.0	22.9	22.4	17.3	17.5	17.3
		75	0	23.5	23.3	23.2	18.0	17.9	17.6	23.0	22.9	22.4	17.3	17.5	17.4
	64QAM	1	0	23.7	23.5	23.3	18.1	18.0	17.9	23.5	23.6	23.4	18.6	18.8	18.8
		1	37	23.6	23.5	23.3	18.2	18.2	17.8	23.6	23.6	23.4	18.6	18.8	18.7
		1	74	23.6	23.4	23.4	18.1	18.2	17.9	23.7	23.6	23.4	18.4	18.8	18.5
		36	0	22.5	22.3	22.2	17.0	16.9	16.8	22.3	22.3	22.2	17.3	17.5	17.5
		36	16	22.4	22.4	22.2	17.0	17.0	16.7	22.2	22.3	22.1	17.3	17.6	17.5
		36	35	22.5	22.3	22.2	16.9	17.0	16.6	22.2	22.3	22.1	17.2	17.5	17.4
		75	0	22.4	22.2	22.2	16.9	16.9	16.7	22.2	22.3	22.2	17.2	17.4	17.5

OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				20850	21100	21350	20850	21100	21350	20850	21100	21350	20850	21100	21350
				2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0	2510.0	2535.0	2560.0
20.0	QPSK	1	0	25.5	25.2	25.2	20.0	19.9	19.9	24.7	24.8	24.5	18.8	19.5	19.5
		1	49	25.4	25.2	25.1	20.0	20.0	19.7	25.0	24.9	24.4	19.4	19.5	19.4
		1	99	25.3	25.2	25.2	19.9	20.0	19.7	25.0	24.8	24.2	19.4	19.5	19.3
		50	0	24.4	24.2	24.1	19.1	18.9	18.8	24.1	23.8	23.4	18.3	18.4	18.4
		50	24	24.4	24.3	24.1	19.0	19.0	18.7	24.0	23.8	23.4	18.3	18.4	18.4
		50	49	24.4	24.2	24.1	18.9	18.9	18.6	23.8	23.7	23.3	18.3	18.5	18.3
		100	0	24.4	24.3	24.2	19.0	19.0	18.8	23.9	23.8	23.5	18.2	18.4	18.5
	16QAM	1	0	24.8	24.7	24.5	19.3	19.3	19.2	24.2	24.3	23.9	18.3	19.1	18.8
		1	49	24.7	24.6	24.4	19.4	19.3	19.0	24.3	24.5	23.7	18.7	19.0	18.7
		1	99	24.7	24.5	24.5	19.2	19.3	19.0	24.3	24.4	23.5	18.8	19.0	18.6
		50	0	23.5	23.3	23.1	18.1	17.9	17.8	23.0	22.9	22.5	17.2	17.5	17.5
		50	24	23.5	23.3	23.2	18.0	18.0	17.7	22.9	22.9	22.5	17.3	17.5	17.4
		50	49	23.3	23.2	23.2	17.9	17.9	17.7	22.9	22.8	22.4	17.3	17.5	17.3
		100	0	23.5	23.3	23.2	18.0	18.0	17.8	23.0	22.9	22.5	17.3	17.5	17.5
	64QAM	1	0	23.8	23.7	23.6	18.3	18.3	18.3	23.6	23.7	23.3	18.4	18.9	18.9
		1	49	23.8	23.7	23.4	18.4	18.4	18.0	23.7	23.8	23.2	18.4	19.0	18.9
		1	99	23.7	23.5	23.5	18.3	18.5	18.2	23.8	23.8	23.2	18.4	19.0	18.7
		50	0	22.4	22.3	22.1	17.0	16.9	16.8	22.2	22.3	22.2	17.3	17.5	17.5
		50	24	22.4	22.2	22.1	17.0	17.0	16.7	22.2	22.3	22.2	17.1	17.5	17.5
		50	49	22.3	22.2	22.1	16.9	17.0	16.7	22.2	22.3	22.1	17.1	17.4	17.4
		100	0	22.4	22.3	22.2	17.0	17.1	16.8	22.2	22.3	22.2	17.1	17.4	17.5

7.1.4. LTE BAND 12

ID:	50820	Date:	4/24/18
------------	-------	--------------	---------

OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23017	23095	23173	23017	23095	23173
1.4	QPSK	1	0	25.4	25.5	25.4	24.3	24.3	24.5
		1	2	25.4	25.4	25.4	24.2	24.3	24.5
		1	5	25.4	25.4	25.4	24.2	24.2	24.4
		3	0	25.4	25.5	25.4	24.2	24.3	24.4
		3	1	25.4	25.5	25.4	24.2	24.3	24.4
		3	2	25.4	25.5	25.4	24.2	24.3	24.4
	16QAM	6	0	24.4	24.5	24.4	23.2	23.3	23.4
		1	0	24.7	24.7	24.7	23.6	23.6	23.7
		1	2	24.6	24.7	24.6	23.6	23.5	23.7
		1	5	24.7	24.7	24.7	23.6	23.5	23.7
		3	0	24.5	24.6	24.5	23.4	23.4	23.6
		3	1	24.5	24.6	24.5	23.3	23.4	23.6
	64QAM	3	2	24.5	24.6	24.5	23.3	23.4	23.6
		6	0	23.5	23.6	23.5	22.3	22.4	22.5
		1	0	23.7	23.8	23.6	22.4	22.6	22.8
		1	2	23.7	23.8	23.6	22.3	22.4	22.7
		1	5	23.6	23.8	23.6	22.3	22.4	22.6
		3	0	23.5	23.6	23.5	22.1	22.3	22.4
	64QAM	3	1	23.5	23.6	23.5	22.1	22.3	22.4
		3	2	23.5	23.6	23.5	22.2	22.2	22.4
		6	0	22.5	22.6	22.5	21.2	21.3	21.3

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23025	23095	23165	23025	23095	23165
3.0	QPSK	1	0	25.3	25.4	25.5	24.3	24.4	24.3
		1	7	25.3	25.4	25.3	24.3	24.4	24.5
		1	14	25.2	25.4	25.3	24.2	24.4	24.5
		8	0	24.3	24.3	24.4	23.3	23.4	23.4
		8	4	24.3	24.3	24.3	23.3	23.4	23.4
		8	7	24.3	24.4	24.3	23.3	23.4	23.4
	16QAM	15	0	24.3	24.4	24.3	23.3	23.4	23.4
		1	0	24.7	24.7	24.7	23.6	23.7	23.6
		1	7	24.6	24.6	24.6	23.7	23.7	23.8
		1	14	24.6	24.7	24.6	23.6	23.6	23.7
		8	0	23.4	23.4	23.4	22.4	22.4	22.4
		8	4	23.4	23.4	23.4	22.4	22.4	22.5
	64QAM	8	7	23.3	23.4	23.4	22.3	22.4	22.5
		15	0	23.3	23.4	23.3	22.3	22.4	22.5
		1	0	23.6	23.5	23.8	22.2	22.7	22.4
		1	7	23.6	23.7	23.6	22.3	22.6	22.7
		1	14	23.6	23.6	23.6	22.4	22.5	22.4
		8	0	22.4	22.5	22.5	21.2	21.4	21.3
	64QAM	8	4	22.4	22.4	22.4	21.2	21.4	21.3
		8	7	22.4	22.5	22.4	21.2	21.4	21.3
		15	0	22.4	22.4	22.3	21.2	21.3	21.3

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23035	23095	23155	23035	23095	23155
				701.5	707.5	713.5	701.5	707.5	713.5
5.0	QPSK	1	0	25.3	25.3	25.4	24.4	24.4	24.4
		1	12	25.3	25.3	25.5	24.3	24.4	24.3
		1	24	25.4	25.5	25.3	24.4	24.5	24.5
		12	0	24.4	24.4	24.5	23.4	23.4	23.5
		12	6	24.4	24.4	24.5	23.3	23.4	23.5
		12	11	24.5	24.4	24.4	23.4	23.5	23.6
	16QAM	25	0	24.5	24.5	24.6	23.4	23.4	23.5
		1	0	24.8	24.8	24.8	23.8	23.7	23.8
		1	12	24.7	24.8	24.9	23.7	23.8	23.8
		1	24	24.8	24.9	24.7	23.9	23.8	24.0
		12	0	23.6	23.6	23.6	22.5	22.6	22.6
		12	6	23.5	23.6	23.7	22.4	22.6	22.6
	64QAM	12	11	23.6	23.6	23.6	22.5	22.6	22.7
		25	0	23.5	23.6	23.7	22.5	22.6	22.5
		1	0	23.7	23.6	23.7	22.6	22.7	22.6
		1	12	23.6	23.7	23.8	22.6	22.7	22.6
		1	24	23.7	23.8	23.7	22.8	22.6	22.7
		12	0	22.5	22.6	22.6	21.4	21.5	21.5
		12	6	22.5	22.5	22.7	21.4	21.5	21.5
		12	11	22.5	22.5	22.5	21.4	21.5	21.5
		25	0	22.5	22.6	22.6	21.4	21.5	21.5

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23060	23095	23130	23060	23095	23130
				704.0	707.5	711.0	704.0	707.5	711.0
10.0	QPSK	1	0	25.4	25.3	25.4	24.3	24.2	24.3
		1	24	25.3	25.4	25.5	24.2	24.2	24.3
		1	49	25.4	25.5	25.4	24.4	24.3	24.5
		25	0	24.3	24.3	24.4	23.2	23.1	23.4
		25	12	24.3	24.4	24.5	23.2	23.2	23.3
		25	24	24.4	24.5	24.5	23.3	23.3	23.3
	16QAM	50	0	24.3	24.3	24.4	23.2	23.3	23.3
		1	0	24.7	24.7	24.7	23.6	23.6	23.7
		1	24	24.6	24.7	24.8	23.6	23.6	23.6
		1	49	24.7	24.8	24.7	23.7	23.6	23.8
		25	0	23.4	23.4	23.6	22.3	22.3	22.5
		25	12	23.5	23.5	23.6	22.3	22.4	22.4
	64QAM	25	24	23.5	23.6	23.7	22.4	22.4	22.4
		50	0	23.4	23.4	23.5	22.2	22.3	22.4
		1	0	23.6	23.7	23.7	22.3	22.5	22.7
		1	24	23.7	23.7	23.7	22.6	22.5	22.4
		1	49	23.7	23.7	23.7	22.5	22.4	22.5
		25	0	22.5	22.5	22.6	21.2	21.3	21.3
		25	12	22.5	22.5	22.6	21.3	21.3	21.3
		25	24	22.5	22.7	22.7	21.3	21.4	21.4
		50	0	22.4	22.4	22.5	21.2	21.2	21.3

7.1.5. LTE BAND 13

ID:	50820	Date:	4/24/18
------------	-------	--------------	---------

OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23207	23230	23255	23207	23230	23255
5.0	QPSK	1	0	779.5	782.0	784.5	779.5	782.0	784.5
		1	0	25.5	25.3	25.4	24.5	24.4	24.4
		1	12	25.4	25.4	25.3	24.5	24.5	24.3
		1	24	25.4	25.3	25.4	24.5	24.5	24.4
		12	0	24.3	24.3	24.3	23.5	23.3	23.1
		12	6	24.3	24.3	24.2	23.4	23.4	23.2
	16QAM	12	11	24.3	24.4	24.4	23.4	23.3	23.2
		25	0	24.3	24.4	24.3	23.5	23.4	23.3
		1	0	24.9	24.8	25.0	23.9	23.9	23.8
		1	12	24.8	24.9	24.8	23.9	23.8	23.8
		1	24	24.8	24.7	24.9	23.8	23.9	23.9
		12	0	23.3	23.4	23.4	22.5	22.4	22.3
	64QAM	12	6	23.4	23.4	23.4	22.5	22.4	22.4
		12	11	23.3	23.5	23.6	22.4	22.3	22.4
		25	0	23.4	23.5	23.4	22.5	22.4	22.3
		1	0	23.7	23.7	23.7	22.8	22.8	22.7
		1	12	23.7	23.7	23.6	22.8	22.7	22.7
		1	24	23.7	23.6	23.7	22.8	22.9	22.7
		12	0	22.1	22.3	22.4	21.4	21.3	21.2
		12	6	22.3	22.4	22.3	21.5	21.4	21.3
		12	11	22.3	22.4	22.5	21.4	21.3	21.3
		25	0	22.4	22.4	22.3	21.5	21.5	21.3

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0		25.5			24.4	
		1	24		25.5			24.4	
		1	49		25.5			24.5	
		25	0		24.5			23.5	
		25	12		24.5			23.5	
		25	24		24.4			23.4	
	16QAM	50	0		24.5			23.5	
		1	0		24.8			23.8	
		1	24		24.8			23.7	
		1	49		24.9			23.8	
		25	0		23.6			22.6	
		25	12		23.6			22.5	
	64QAM	25	24		23.5			22.6	
		50	0		23.6			22.6	
		1	0		23.8			22.8	
		1	24		23.8			22.6	
		1	49		23.8			22.8	
		25	0		22.6			21.6	
		25	12		22.6			21.6	
		25	24		22.5			21.6	
		50	0		22.6			21.6	

7.1.6. LTE BAND 14

ID:	10646	Date:	4/23/18
------------	-------	--------------	---------

OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23305	23330	23355	23305	23330	23355
5.0	QPSK	1	0	25.5	25.4	25.4	24.4	24.3	24.5
		1	12	25.4	25.3	25.4	24.3	24.5	24.5
		1	24	25.4	25.4	25.4	24.4	24.5	24.4
		12	0	24.4	24.4	24.5	23.3	23.3	23.4
		12	6	24.4	24.4	24.4	23.3	23.3	23.4
		12	11	24.4	24.4	24.4	23.3	23.4	23.4
		25	0	24.4	24.4	24.4	23.3	23.4	23.4
	16QAM	1	0	24.9	24.8	24.7	23.8	23.8	23.9
		1	12	24.8	24.7	24.7	23.7	24.0	23.7
		1	24	24.9	24.8	24.7	23.9	23.8	23.7
		12	0	23.5	23.4	23.5	22.3	22.4	22.5
		12	6	23.5	23.5	23.4	22.3	22.4	22.5
		12	11	23.5	23.5	23.5	22.4	22.4	22.4
		25	0	23.4	23.4	23.4	22.3	22.4	22.5
	64QAM	1	0	23.8	23.7	23.7	22.6	22.6	22.3
		1	12	23.7	23.7	23.6	22.5	22.7	22.5
		1	24	23.8	23.7	23.7	22.4	22.6	22.6
		12	0	22.4	22.4	22.5	21.4	21.3	21.1
		12	6	22.4	22.5	22.4	21.3	21.2	21.2
		12	11	22.4	22.4	22.4	21.2	21.3	21.2

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	23330	N/A	N/A	23330	N/A
10.0	QPSK	1	0		25.5			24.4	
		1	24		25.4			24.4	
		1	49		25.4			24.5	
		25	0		24.5			23.3	
		25	12		24.5			23.4	
		25	24		24.5			23.5	
		50	0		24.4			23.4	
	16QAM	1	0		24.8			23.7	
		1	24		24.7			23.9	
		1	49		24.7			23.8	
		25	0		23.5			22.4	
		25	12		23.6			22.5	
		25	24		23.5			22.6	
		50	0		23.5			22.5	
	64QAM	1	0		23.7			22.3	
		1	24		23.7			22.6	
		1	49		23.6			22.3	
		25	0		22.6			21.4	
		25	12		22.6			21.3	
		25	24		22.6			21.4	
		50	0		22.4			21.3	

7.1.7. LTE BAND 17

ID:	50820	Date:	4/24/18
------------	-------	--------------	---------

OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23755	23790	23825	23755	23790	23825
5.0	QPSK	1	0	25.3	25.4	25.5	24.3	24.3	24.3
		1	12	25.4	25.5	25.5	24.3	24.3	24.3
		1	24	25.5	25.5	25.3	24.4	24.3	24.5
		12	0	24.4	24.5	24.5	23.3	23.3	23.4
		12	6	24.4	24.5	24.5	23.4	23.3	23.4
		12	11	24.4	24.5	24.4	23.4	23.3	23.5
		25	0	24.5	24.6	24.6	23.4	23.4	23.4
	16QAM	1	0	24.7	24.7	24.8	23.8	23.6	23.6
		1	12	24.7	24.9	24.9	23.8	23.6	23.6
		1	24	24.9	24.8	24.8	23.8	23.6	23.9
		12	0	23.5	23.7	23.6	22.4	22.5	22.5
		12	6	23.6	23.7	23.7	22.5	22.5	22.5
		12	11	23.6	23.7	23.6	22.5	22.5	22.6
		25	0	23.6	23.7	23.7	22.5	22.5	22.5
	64QAM	1	0	23.6	23.7	23.8	22.7	22.7	22.6
		1	12	23.7	23.8	23.8	22.7	22.6	22.6
		1	24	23.8	23.8	23.7	22.6	22.5	22.7
		12	0	22.5	22.6	22.6	21.5	21.4	21.4
		12	6	22.6	22.7	22.7	21.4	21.4	21.5
		12	11	22.6	22.7	22.5	21.5	21.4	21.4
		25	0	22.5	22.7	22.7	21.4	21.4	21.5

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				23780	23790	23800	23780	23790	23800
10.0	QPSK	1	0	25.3	25.3	25.4	24.2	24.3	24.3
		1	24	25.5	25.5	25.5	24.3	24.3	24.3
		1	49	25.5	25.4	25.4	24.3	24.4	24.5
		25	0	24.3	24.4	24.4	23.2	23.2	23.3
		25	12	24.4	24.5	24.5	23.3	23.3	23.3
		25	24	24.4	24.4	24.5	23.3	23.4	23.3
		50	0	24.5	24.4	24.4	23.3	23.3	23.3
	16QAM	1	0	24.6	24.6	24.7	23.7	23.6	23.8
		1	24	24.7	24.8	24.8	23.7	23.6	23.6
		1	49	24.8	24.7	24.7	23.7	23.7	23.9
		25	0	23.5	23.5	23.6	22.4	22.4	22.5
		25	12	23.6	23.6	23.6	22.4	22.4	22.4
		25	24	23.6	23.6	23.7	22.4	22.4	22.4
		50	0	23.6	23.6	23.5	22.4	22.4	22.3
	64QAM	1	0	23.6	23.6	23.7	22.6	22.6	22.7
		1	24	23.7	23.8	23.7	22.5	22.4	22.4
		1	49	23.8	23.7	23.6	22.6	22.5	22.6
		25	0	22.5	22.5	22.6	21.3	21.3	21.4
		25	12	22.6	22.6	22.6	21.4	21.4	21.3
		25	24	22.6	22.6	22.7	21.4	21.3	21.4
		50	0	22.6	22.5	22.5	21.3	21.3	21.3

7.1.8. LTE BAND 25

ID:	50820	Date:	4/25/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
1.4	QPSK	1	0	25.4	25.4	25.5	20.2	20.3	20.5	24.7	24.9	25.0	21.2	20.9	20.9
		1	2	25.4	25.4	25.5	20.2	20.3	20.5	24.8	24.8	24.9	21.1	20.8	20.9
		1	5	25.4	25.4	25.5	20.2	20.4	20.4	24.8	24.9	24.9	21.2	20.8	20.8
		3	0	25.3	25.4	25.4	20.2	20.3	20.4	24.7	24.8	25.0	21.1	20.8	20.8
		3	1	25.3	25.4	25.4	20.2	20.3	20.4	24.7	24.8	24.9	21.1	20.8	20.8
		3	2	25.3	25.4	25.4	20.2	20.3	20.3	24.7	24.8	24.9	21.1	20.8	20.8
	16QAM	6	0	24.3	24.4	24.4	19.1	19.2	19.3	23.7	23.8	23.9	20.1	19.8	19.7
		1	0	24.8	24.7	24.8	19.4	19.6	19.9	24.0	24.3	24.2	20.4	20.1	20.2
		1	2	24.8	24.7	24.7	19.4	19.6	19.8	24.0	24.2	24.1	20.5	20.1	20.1
		1	5	24.8	24.7	24.7	19.4	19.6	19.7	24.0	24.2	24.1	20.6	20.1	20.1
		3	0	24.5	24.5	24.5	19.3	19.4	19.5	23.8	24.0	24.0	20.2	20.0	20.0
		3	1	24.5	24.5	24.5	19.3	19.4	19.5	23.8	23.9	24.0	20.2	20.0	19.9
	64QAM	3	2	24.5	24.5	24.5	19.3	19.4	19.5	23.8	23.9	24.0	20.2	20.0	19.9
		6	0	23.4	23.5	23.4	18.3	18.3	18.4	22.7	22.9	23.0	19.1	19.0	18.8
		1	0	23.6	23.7	23.7	18.4	18.5	18.6	23.7	23.7	23.9	19.8	19.7	19.7
		1	2	23.5	23.6	23.7	18.4	18.5	18.7	23.7	23.6	23.8	19.9	19.7	19.8
		1	5	23.6	23.6	23.7	18.5	18.5	18.6	23.8	23.7	23.8	19.7	19.7	19.8
		3	0	23.5	23.5	23.5	18.3	18.4	18.6	23.5	23.6	23.6	19.5	19.5	19.6
		3	1	23.5	23.5	23.5	18.3	18.4	18.5	23.5	23.6	23.6	19.6	19.4	19.6
		3	2	23.5	23.5	23.5	18.3	18.4	18.5	23.5	23.6	23.6	19.6	19.4	19.5
		6	0	22.4	22.5	22.4	17.2	17.4	17.5	22.4	22.5	22.5	18.5	18.5	18.4

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
3.0	QPSK	1	0	25.3	25.4	25.4	20.2	20.3	20.5	24.6	24.8	24.9	21.1	20.9	20.9
		1	7	25.4	25.5	25.5	20.3	20.4	20.5	24.8	24.9	25.0	21.2	20.9	21.0
		1	14	25.4	25.4	25.3	20.2	20.3	20.3	24.8	24.8	24.9	21.1	20.8	20.8
		8	0	24.3	24.4	24.4	19.1	19.3	19.5	23.7	23.8	24.0	20.1	19.8	19.9
		8	4	24.4	24.4	24.3	19.1	19.3	19.4	23.7	23.7	23.9	20.1	19.8	19.8
		8	7	24.3	24.4	24.3	19.2	19.3	19.4	23.7	23.7	23.9	20.1	19.8	19.8
	16QAM	15	0	24.3	24.4	24.3	19.1	19.2	19.4	23.7	23.7	23.9	20.1	19.8	19.8
		1	0	24.7	24.8	24.8	19.5	19.6	19.8	24.0	24.0	24.2	20.3	20.3	20.2
		1	7	24.7	24.8	24.7	19.5	19.6	19.8	24.1	24.1	24.3	20.5	20.3	20.3
		1	14	24.5	24.7	24.7	19.4	19.6	19.6	24.0	23.9	24.1	20.3	20.2	20.1
		8	0	23.3	23.5	23.4	18.2	18.3	18.5	22.7	22.8	23.0	19.1	19.0	18.9
		8	4	23.4	23.5	23.4	18.2	18.4	18.4	22.7	22.8	23.0	19.2	18.9	18.9
	64QAM	8	7	23.4	23.5	23.5	18.3	18.4	18.4	22.7	22.8	23.0	19.2	18.9	18.9
		15	0	23.4	23.4	23.4	18.2	18.3	18.3	22.7	22.9	22.9	19.2	18.9	18.8
		1	0	23.6	23.6	23.5	18.4	18.6	18.6	23.6	23.5	23.7	19.7	19.6	19.6
		1	7	23.7	23.6	23.7	18.5	18.6	18.7	23.7	23.6	23.7	19.6	19.7	19.6
		1	14	23.6	23.5	23.7	18.5	18.6	18.6	23.7	23.6	23.6	19.7	19.6	19.6
		8	0	22.4	22.5	22.5	17.2	17.4	17.5	22.4	22.5	22.4	18.4	18.4	18.4
		8	4	22.4	22.5	22.4	17.2	17.4	17.5	22.4	22.4	22.4	18.5	18.4	18.3
		8	7	22.4	22.5	22.5	17.3	17.4	17.5	22.4	22.4	22.4	18.5	18.4	18.3
		15	0	22.4	22.4	22.4	17.2	17.3	17.4	22.3	22.4	22.4	18.4	18.4	18.3

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
				1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
5.0	QPSK	1	0	25.2	25.4	25.5	20.2	20.4	20.5	24.7	24.8	24.9	21.2	21.1	21.0
		1	12	25.2	25.4	25.5	20.3	20.4	20.5	24.8	24.8	25.0	21.2	20.9	20.9
		1	24	25.2	25.5	25.4	20.3	20.4	20.4	24.8	24.7	24.9	21.2	20.9	20.8
		12	0	24.2	24.5	24.5	19.2	19.4	19.5	23.7	23.8	24.0	20.2	19.9	20.0
		12	6	24.2	24.5	24.5	19.3	19.3	19.5	23.7	23.8	24.0	20.2	19.9	20.0
		12	11	24.2	24.5	24.5	19.3	19.3	19.5	23.7	23.7	23.9	20.2	19.9	19.9
		25	0	24.3	24.5	24.5	19.3	19.4	19.5	23.7	23.8	24.0	20.2	19.9	20.0
	16QAM	1	0	24.6	24.9	25.0	19.6	19.8	19.9	24.0	24.2	24.4	20.6	20.4	20.4
		1	12	24.6	24.8	24.9	19.6	19.7	19.9	24.1	24.1	24.4	20.6	20.4	20.3
		1	24	24.6	24.9	24.8	19.6	19.7	19.8	24.1	24.1	24.3	20.6	20.2	20.2
		12	0	23.5	23.7	23.7	18.4	18.6	18.7	22.8	23.0	23.1	19.3	19.1	19.1
		12	6	23.4	23.6	23.6	18.4	18.5	18.6	22.8	22.9	23.1	19.3	19.1	19.1
		12	11	23.4	23.6	23.6	18.4	18.5	18.6	22.9	22.9	23.1	19.3	19.1	19.0
		25	0	23.3	23.6	23.6	18.3	18.4	18.6	22.8	22.9	23.1	19.3	19.1	19.0
	64QAM	1	0	23.7	23.7	23.9	18.5	18.6	18.8	23.6	23.8	23.7	19.8	19.7	19.9
		1	12	23.5	23.7	23.8	18.6	18.6	18.8	23.7	23.7	23.7	19.8	19.8	19.8
		1	24	23.5	23.7	23.8	18.6	18.7	18.7	23.7	23.7	23.8	19.9	19.8	19.8
		12	0	22.4	22.5	22.6	17.4	17.5	17.5	22.5	22.5	22.5	18.5	18.5	18.6
		12	6	22.4	22.5	22.6	17.4	17.5	17.6	22.5	22.5	22.5	18.6	18.5	18.6
		12	11	22.4	22.5	22.6	17.4	17.4	17.6	22.5	22.5	22.5	18.6	18.5	18.6
		25	0	22.3	22.5	22.6	17.3	17.4	17.6	22.5	22.5	22.5	18.6	18.6	18.6

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
				1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
10.0	QPSK	1	0	25.4	25.5	25.4	20.3	20.5	20.4	24.9	25.0	24.9	21.2	21.1	21.0
		1	24	25.3	25.5	25.5	20.4	20.4	20.5	24.9	24.9	25.0	21.2	20.9	21.0
		1	49	25.2	25.5	25.4	20.3	20.4	20.5	24.8	24.8	25.0	21.2	20.9	20.9
		25	0	24.2	24.4	24.3	19.2	19.3	19.3	23.8	23.9	23.9	20.1	19.9	19.9
		25	12	24.2	24.4	24.4	19.2	19.2	19.4	23.8	23.8	24.0	20.1	19.8	19.9
		25	24	24.1	24.4	24.4	19.1	19.2	19.4	23.7	23.8	24.1	20.0	19.8	19.9
		50	0	24.2	24.4	24.4	19.2	19.2	19.5	23.8	23.8	24.1	20.1	19.8	20.0
	16QAM	1	0	24.7	24.8	24.7	19.6	19.8	19.7	24.2	24.4	24.2	20.6	20.6	20.2
		1	24	24.6	24.8	24.7	19.6	19.6	19.8	24.3	24.3	24.3	20.6	20.4	20.3
		1	49	24.4	24.8	24.7	19.5	19.7	19.8	24.2	24.3	24.3	20.6	20.3	20.2
		25	0	23.4	23.5	23.5	18.4	18.4	18.5	22.9	23.0	23.0	19.3	19.0	19.0
		25	12	23.3	23.5	23.5	18.4	18.4	18.6	22.9	22.9	23.1	19.2	19.0	19.1
		25	24	23.3	23.5	23.5	18.3	18.4	18.6	22.8	22.9	23.1	19.2	19.0	19.1
		50	0	23.2	23.4	23.5	18.3	18.3	18.5	22.8	22.8	23.1	19.2	18.9	19.0
	64QAM	1	0	23.6	23.7	23.7	18.6	18.7	18.7	23.7	23.9	23.7	19.8	19.8	19.8
		1	24	23.5	23.7	23.7	18.6	18.7	18.8	23.8	23.8	23.6	19.7	19.7	19.8
		1	49	23.4	23.7	23.8	18.6	18.7	18.8	23.7	23.6	23.8	19.7	19.8	19.7
		25	0	22.4	22.5	22.5	17.4	17.5	17.5	22.6	22.6	22.5	18.6	18.5	18.6
		25	12	22.3	22.5	22.6	17.4	17.5	17.6	22.5	22.6	22.6	18.5	18.5	18.6
		25	24	22.3	22.5	22.5	17.3	17.4	17.6	22.5	22.5	22.6	18.4	18.5	18.6
		50	0	22.3	22.4	22.5	17.3	17.4	17.5	22.4	22.5	22.6	18.4	18.4	18.6

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
15.0	QPSK	1	0	25.4	25.3	25.5	20.3	20.4	20.5	24.8	25.0	24.9	21.2	21.0	20.9
		1	37	25.1	25.4	25.3	20.2	20.4	20.4	24.7	24.8	24.8	21.1	20.8	20.8
		1	74	25.2	25.4	25.4	20.1	20.4	20.5	24.7	24.7	24.9	21.0	20.8	20.8
		36	0	24.2	24.3	24.2	19.2	19.3	19.3	23.7	23.8	23.7	20.1	19.8	19.8
		36	16	24.1	24.3	24.3	19.1	19.3	19.3	23.6	23.7	23.7	19.9	19.7	19.8
		36	35	24.0	24.2	24.4	19.1	19.3	19.5	23.6	23.6	23.9	19.9	19.7	19.8
		75	0	24.1	24.3	24.4	19.1	19.2	19.4	23.6	23.6	23.9	19.9	19.7	19.9
	16QAM	1	0	24.6	24.6	24.7	19.6	19.6	19.8	24.2	24.3	24.2	20.6	20.4	20.2
		1	37	24.4	24.7	24.6	19.5	19.7	19.6	24.1	24.2	24.0	20.5	20.3	20.1
		1	74	24.4	24.7	24.6	19.5	19.7	19.7	24.0	24.1	24.1	20.4	20.2	20.1
		36	0	23.3	23.4	23.4	18.3	18.4	18.4	22.8	22.8	22.8	19.1	18.9	18.9
		36	16	23.2	23.3	23.4	18.2	18.4	18.4	22.7	22.8	22.8	19.0	18.8	18.9
		36	35	23.1	23.3	23.5	18.2	18.4	18.5	22.7	22.7	23.0	19.0	18.8	18.9
		75	0	23.1	23.3	23.5	18.2	18.3	18.5	22.6	22.7	22.9	19.0	18.8	18.9
	64QAM	1	0	23.6	23.6	23.8	18.6	18.6	18.8	23.6	23.8	23.7	19.7	19.7	19.9
		1	37	23.5	23.7	23.7	18.6	18.7	18.7	23.7	23.7	23.6	19.5	19.7	19.7
		1	74	23.5	23.7	23.8	18.5	18.7	18.7	23.6	23.6	23.8	19.5	19.7	19.7
		36	0	22.4	22.5	22.5	17.4	17.5	17.4	22.4	22.5	22.4	18.4	18.4	18.4
		36	16	22.2	22.4	22.5	17.3	17.4	17.4	22.4	22.5	22.4	18.3	18.3	18.4
		36	35	22.2	22.4	22.5	17.2	17.4	17.5	22.3	22.3	22.5	18.2	18.4	18.5
		75	0	22.2	22.4	22.5	17.2	17.3	17.4	22.3	22.4	22.4	18.2	18.3	18.4

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
20.0	QPSK	1	0	25.4	25.4	25.5	20.2	20.3	20.5	24.8	25.0	24.9	21.2	21.1	21.0
		1	49	25.1	25.5	25.4	20.1	20.3	20.3	24.7	24.8	24.8	21.0	20.9	20.8
		1	99	25.4	25.5	25.5	20.3	20.4	20.4	24.9	24.8	25.0	21.1	20.9	20.9
		50	0	24.2	24.3	24.4	19.1	19.2	19.3	23.7	23.8	23.8	20.0	19.9	19.8
		50	24	24.0	24.3	24.3	19.0	19.1	19.2	23.7	23.7	23.7	19.9	19.7	19.7
		50	49	24.1	24.3	24.4	19.0	19.1	19.3	23.6	23.6	23.9	19.9	19.7	19.9
		100	0	24.1	24.3	24.5	19.0	19.1	19.3	23.7	23.7	23.9	20.0	19.7	19.8
	16QAM	1	0	24.7	24.7	24.9	19.5	19.6	19.8	24.1	24.4	24.2	20.6	20.3	20.2
		1	49	24.4	24.8	24.6	19.4	19.6	19.6	24.0	24.3	24.0	20.6	20.2	20.1
		1	99	24.7	24.9	24.8	19.6	19.7	19.8	24.1	24.3	24.2	20.5	20.2	20.2
		50	0	23.2	23.4	23.5	18.2	18.3	18.4	22.7	22.8	22.9	19.1	18.9	18.9
		50	24	23.1	23.4	23.4	18.1	18.2	18.3	22.7	22.7	22.8	19.0	18.8	18.8
		50	49	23.1	23.3	23.5	18.0	18.2	18.4	22.6	22.7	23.0	19.0	18.8	19.0
		100	0	23.1	23.4	23.5	18.1	18.2	18.4	22.7	22.7	22.9	19.0	18.8	18.9
	64QAM	1	0	23.7	23.7	23.9	18.6	18.7	18.9	23.7	24.0	23.5	19.8	19.8	19.6
		1	49	23.4	23.8	23.7	18.5	18.7	18.7	23.7	23.9	23.4	19.6	19.8	19.5
		1	99	23.8	24.0	23.9	18.8	18.9	18.8	23.9	23.8	23.6	19.7	19.9	19.6
		50	0	22.2	22.4	22.5	17.2	17.3	17.4	22.4	22.4	22.4	18.3	18.3	18.5
		50	24	22.1	22.4	22.4	17.1	17.3	17.3	22.3	22.4	22.3	18.2	18.3	18.4
		50	49	22.1	22.3	22.5	17.1	17.3	17.4	22.3	22.2	22.4	18.2	18.3	18.4
		100	0	22.1	22.3	22.5	17.1	17.2	17.3	22.3	22.4	22.4	18.2	18.3	18.4

7.1.9. LTE BAND 26 (Part 90S)

ID:	10646	Date:	4/24/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26697	26740	26783	26697	26740	26783
1.4	QPSK	1	0	25.4	25.4	25.4	24.5	24.4	24.4
		1	2	25.4	25.4	25.4	24.5	24.4	24.4
		1	5	25.5	25.5	25.4	24.5	24.3	24.5
		3	0	25.3	25.4	25.4	24.5	24.3	24.4
		3	1	25.3	25.4	25.4	24.5	24.3	24.3
		3	2	25.4	25.4	25.4	24.5	24.3	24.3
		6	0	24.4	24.5	24.4	23.4	23.3	23.3
	16QAM	1	0	24.8	24.8	24.7	23.7	23.7	23.7
		1	2	24.8	24.7	24.7	23.7	23.7	23.7
		1	5	24.9	24.8	24.7	23.7	23.7	23.7
		3	0	24.5	24.6	24.6	23.6	23.5	23.5
		3	1	24.5	24.6	24.6	23.6	23.5	23.6
		3	2	24.6	24.7	24.6	23.6	23.4	23.5
		6	0	23.5	23.6	23.5	22.6	22.4	22.5
	64QAM	1	0	23.8	23.9	23.9	23.4	23.3	23.5
		1	2	23.8	23.9	23.8	23.4	23.3	23.5
		1	5	23.8	23.9	23.8	23.4	23.4	23.5
		3	0	23.6	23.7	23.6	23.2	23.2	23.4
		3	1	23.6	23.7	23.6	23.2	23.1	23.4
		3	2	23.6	23.7	23.6	23.2	23.1	23.4
		6	0	22.5	22.6	22.5	22.1	22.2	22.4

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26705	26740	26775	26705	26740	26775
3.0	QPSK	1	0	25.3	25.4	25.3	24.4	24.2	24.2
		1	7	25.5	25.5	25.4	24.5	24.2	24.3
		1	14	25.5	25.4	25.4	24.3	24.1	24.3
		8	0	24.4	24.4	24.3	23.4	23.2	23.2
		8	4	24.4	24.4	24.4	23.4	23.2	23.2
		8	7	24.4	24.5	24.4	23.4	23.2	23.2
		15	0	24.4	24.4	24.4	23.4	23.2	23.2
	16QAM	1	0	24.7	24.6	24.7	23.6	23.6	23.7
		1	7	24.8	24.8	24.8	23.7	23.7	23.7
		1	14	24.9	24.8	24.7	23.7	23.5	23.7
		8	0	23.5	23.5	23.4	22.5	22.3	22.3
		8	4	23.5	23.5	23.5	22.5	22.3	22.3
		8	7	23.5	23.5	23.5	22.4	22.3	22.3
		15	0	23.5	23.5	23.5	22.4	22.2	22.3
	64QAM	1	0	23.6	23.8	23.6	23.4	23.2	23.0
		1	7	23.7	23.8	23.8	23.5	23.3	23.1
		1	14	23.9	23.9	23.6	23.5	23.3	23.2
		8	0	22.5	22.5	22.5	22.2	22.1	21.9
		8	4	22.5	22.6	22.5	22.3	22.1	21.9
		8	7	22.6	22.6	22.6	22.3	22.1	22.0
		15	0	22.4	22.5	22.5	22.2	22.0	21.9

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				26715	26740	26765	26715	26740	26765
				816.5	819.0	821.5	816.5	819.0	821.5
5.0	QPSK	1	0	25.4	25.4	25.4	24.5	24.4	24.2
		1	12	25.5	25.4	25.3	24.3	24.3	24.2
		1	24	25.4	25.5	25.4	24.3	24.3	24.4
		12	0	24.5	24.5	24.4	23.5	23.3	23.2
		12	6	24.6	24.5	24.4	23.4	23.3	23.3
		12	11	24.6	24.5	24.5	23.4	23.2	23.3
		25	0	24.6	24.5	24.5	23.4	23.2	23.3
	16QAM	1	0	24.9	24.9	24.8	23.8	23.7	23.8
		1	12	25.0	24.9	24.8	23.7	23.6	23.7
		1	24	24.9	24.9	24.9	23.7	23.7	24.0
		12	0	23.7	23.6	23.6	22.6	22.5	22.4
		12	6	23.7	23.7	23.6	22.5	22.4	22.4
		12	11	23.7	23.7	23.7	22.5	22.4	22.5
		25	0	23.7	23.6	23.5	22.4	22.4	22.4
	64QAM	1	0	23.8	23.8	23.8	23.4	23.2	23.0
		1	12	23.9	23.8	23.7	23.5	23.3	23.1
		1	24	23.8	23.9	23.8	23.5	23.3	23.2
		12	0	22.6	22.6	22.5	22.2	22.1	21.9
		12	6	22.7	22.6	22.5	22.3	22.1	21.9
		12	11	22.6	22.6	22.6	22.3	22.1	22.0
		25	0	22.6	22.6	22.5	22.2	22.0	21.9

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				N/A	26740	N/A	N/A	26740	N/A
				N/A	819.0	N/A	N/A	819.0	N/A
10.0	QPSK	1	0		25.4			24.5	
		1	24		25.4			24.3	
		1	49		25.5			24.4	
		25	0		24.3			23.4	
		25	12		24.4			23.3	
		25	24		24.4			23.2	
		50	0		24.4			23.2	
	16QAM	1	0		24.8			23.8	
		1	24		24.8			23.6	
		1	49		24.8			23.8	
		25	0		23.5			22.5	
		25	12		23.5			22.4	
		25	24		23.5			22.4	
		50	0		23.4			22.3	
	64QAM	1	0		23.8			23.3	
		1	24		23.8			23.3	
		1	49		23.8			23.6	
		25	0		22.5			22.2	
		25	12		22.6			22.2	
		25	24		22.6			22.3	
		50	0		22.5			22.2	

7.1.10. LTE BAND 30

ID:	10646	Date:	4/23/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				27685	27710	27735	27685	27710	27735	27685	27710	27735	27685	27710	27735
5.0	QPSK	1	0	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
		1	12	23.5	23.5	23.4	20.3	20.4	20.4	23.3	23.4	23.4	20.0	19.9	19.9
		1	24	23.5	23.5	23.3	20.4	20.4	20.4	23.4	23.4	23.4	19.9	19.9	20.0
		12	0	22.4	22.3	22.4	19.3	19.3	19.2	22.3	22.3	22.2	18.8	18.8	18.9
		12	6	22.4	22.4	22.3	19.3	19.2	19.2	22.3	22.2	22.2	18.8	18.7	18.8
		12	11	22.4	22.4	22.3	19.3	19.3	19.2	22.3	22.3	22.2	18.8	18.8	18.8
	16QAM	25	0	22.4	22.4	22.3	19.3	19.3	19.2	22.3	22.3	22.2	18.8	18.8	18.7
		1	0	22.9	22.9	22.9	19.9	19.8	19.8	22.9	22.8	22.8	19.4	19.4	19.3
		1	12	22.9	23.0	22.8	19.8	19.8	19.7	22.8	22.8	22.7	19.4	19.4	19.2
		1	24	23.0	22.9	22.7	19.8	19.8	19.7	22.8	22.8	22.7	19.3	19.3	19.2
		12	0	21.4	21.3	21.4	18.4	18.3	18.3	21.4	21.3	21.3	17.8	17.8	17.8
		12	6	21.3	21.4	21.3	18.2	18.2	18.2	21.2	21.2	21.2	17.8	17.8	17.8
	64QAM	12	11	21.3	21.3	21.3	18.3	18.3	18.2	21.3	21.3	21.2	17.7	17.8	17.8
		25	0	21.3	21.3	21.3	18.2	18.3	18.2	21.2	21.3	21.2	17.9	17.8	17.7
		1	0	21.7	21.7	21.8	18.7	18.7	18.7	21.7	21.7	21.7	19.1	19.3	19.2
		1	12	21.7	21.8	21.8	18.7	18.7	18.6	21.7	21.7	21.6	19.1	19.2	19.2
		1	24	21.8	21.8	21.6	18.6	18.7	18.6	21.6	21.7	21.6	19.2	19.3	19.1
		12	0	20.2	20.2	20.4	17.2	17.3	17.2	20.2	20.3	20.2	17.7	17.8	17.7
		12	6	20.2	20.3	20.3	17.2	17.2	17.2	20.2	20.2	20.2	17.8	17.7	17.7
		12	11	20.2	20.3	20.3	17.2	17.2	17.2	20.2	20.2	20.2	17.8	17.7	17.7
		25	0	20.3	20.4	20.3	17.2	17.3	17.2	20.2	20.3	20.2	17.7	17.7	17.7

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				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		23.4			20.5			23.5			20.0	
		1	24		23.5			20.3			23.3			20.0	
		1	49		23.3			20.4			23.4			20.0	
		25	0		22.4			19.3			22.3			19.0	
		25	12		22.4			19.3			22.3			18.9	
		25	24		22.4			19.3			22.3			18.9	
	16QAM	50	0		22.4			19.3			22.3			18.9	
		1	0		22.7			19.7			22.7			19.3	
		1	24		22.7			19.6			22.6			19.3	
		1	49		22.6			19.6			22.6			19.3	
		25	0		21.5			18.4			21.4			18.1	
		25	12		21.4			18.3			21.3			18.0	
	64QAM	25	24		21.4			18.4			21.4			18.0	
		50	0		21.4			18.4			21.4			18.0	
		1	0		21.6			18.7			21.7			19.0	
		1	24		21.6			18.6			21.6			19.1	
		1	49		21.5			18.6			21.6			19.1	
		25	0		20.4			17.4			20.4			18.0	
		25	12		20.4			17.4			20.4			18.0	
		25	24		20.4			17.4			20.4			18.0	
		50	0		20.4			17.4			20.4			18.0	

7.1.11. LTE BAND 41

ID:	10646	Date:	4/21/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39675	40620	41565	39675	40620	41565	39675	40620	41565	39675	40620	41565
5.0	QPSK	1	0	23.9	26.6	26.7	19.2	22.2	22.2	23.6	25.7	25.8	19.6	21.4	21.5
		1	12	26.8	26.5	26.7	22.1	22.2	22.2	26.3	25.6	25.8	22.5	21.4	21.4
		1	24	27.0	26.5	26.9	22.2	22.2	22.2	26.5	25.6	25.8	22.4	21.5	21.4
		12	0	22.8	25.6	25.7	18.2	21.2	21.2	22.6	24.7	24.8	18.6	20.5	20.4
		12	6	22.9	25.5	25.7	18.2	21.2	21.2	22.6	24.6	24.8	18.6	20.4	20.4
		12	11	25.9	25.5	25.8	21.2	21.2	21.2	25.6	24.6	24.8	21.5	20.4	20.4
	16QAM	25	0	22.9	25.6	25.7	18.2	21.3	21.2	22.6	24.6	24.9	18.5	20.5	20.4
		1	0	23.3	25.8	26.2	18.8	21.5	21.5	23.0	25.0	25.1	19.0	20.8	20.8
		1	12	26.3	25.8	26.1	21.5	21.5	21.4	25.7	24.9	25.0	21.7	20.7	20.7
		1	24	26.3	25.7	26.2	21.6	21.5	21.5	25.7	24.9	25.0	21.7	20.8	20.8
		12	0	21.9	24.6	24.8	17.2	20.3	20.2	21.6	23.7	23.9	17.6	19.4	19.5
		12	6	21.9	24.6	24.8	17.2	20.3	20.3	21.6	23.6	23.8	17.6	19.5	19.5
	64QAM	12	11	24.9	24.6	24.9	20.2	20.3	20.3	24.6	23.6	23.8	20.5	19.5	19.5
		25	0	21.9	24.6	24.8	17.2	20.3	20.3	21.6	23.6	23.8	17.5	19.5	19.5
		1	0	22.2	24.8	25.1	17.6	20.5	20.5	21.9	24.5	24.4	17.8	20.7	20.7
		1	12	25.1	24.8	25.1	20.4	20.5	20.5	24.8	24.5	24.4	20.7	20.6	20.7
		1	24	25.2	24.8	25.1	20.5	20.5	20.5	24.7	24.5	24.5	20.6	20.7	20.7
		12	0	20.8	23.6	23.7	16.2	19.3	19.3	20.7	23.3	23.2	16.5	19.5	19.5
		12	6	20.9	23.6	23.8	16.2	19.3	19.3	20.6	23.2	23.2	16.5	19.4	19.4
		12	11	23.9	23.6	23.8	19.2	19.3	19.3	23.6	23.3	23.2	19.4	19.5	19.4
		25	0	20.8	23.6	23.8	16.2	19.3	19.2	20.6	23.2	23.2	16.4	19.4	19.4

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39700	40620	41540	39700	40620	41540	39700	40620	41540	39700	40620	41540
10.0	QPSK	1	0	21.9	26.6	26.8	17.2	22.1	22.2	21.7	25.8	25.9	17.6	21.5	21.5
		1	24	26.9	26.5	26.9	22.1	22.1	22.1	26.4	25.7	25.8	22.4	21.5	21.4
		1	49	27.0	26.5	27.0	22.2	22.2	22.1	26.5	25.7	25.9	22.5	21.5	21.4
		25	0	22.9	25.6	25.8	18.2	21.2	21.2	22.6	24.8	24.9	18.6	20.6	20.6
		25	12	25.9	25.6	25.9	21.2	21.2	21.2	25.5	24.7	24.9	21.5	20.5	20.5
		25	24	25.0	25.6	25.9	20.2	21.2	21.2	24.5	24.7	24.9	20.4	20.6	20.5
	16QAM	50	0	22.9	25.5	25.9	18.2	21.1	21.1	22.5	24.7	24.9	18.4	20.5	20.5
		1	0	21.3	25.8	26.1	16.6	21.4	21.5	21.1	25.0	25.2	17.0	20.8	20.9
		1	24	26.2	25.7	26.2	21.4	21.4	21.4	25.7	24.9	25.1	21.6	20.7	20.7
		1	49	26.2	25.7	26.2	21.5	21.3	21.4	25.8	24.9	25.1	21.7	20.8	20.8
		25	0	22.0	24.7	24.9	17.2	20.3	20.3	21.7	23.9	24.0	17.7	19.6	19.7
		25	12	25.0	24.7	25.0	20.2	20.3	20.3	24.6	23.8	24.0	20.5	19.6	19.6
	64QAM	25	24	24.1	24.7	25.1	19.4	20.3	20.3	23.6	23.8	24.0	19.5	19.6	19.6
		50	0	22.1	24.6	25.0	17.2	20.2	20.2	21.6	23.7	23.9	17.4	19.6	19.5
		1	0	20.2	24.7	24.9	15.6	20.4	20.5	20.1	24.5	24.6	15.9	20.7	20.7
		1	24	25.1	24.7	25.1	20.4	20.3	20.4	24.7	24.4	24.5	20.5	20.6	20.7
		1	49	25.2	24.6	25.1	20.4	20.3	20.4	24.7	24.4	24.5	20.6	20.7	20.8
		25	0	21.0	23.7	23.9	16.3	19.3	19.4	20.8	23.4	23.4	16.7	19.7	19.6
		25	12	24.1	23.7	24.0	19.3	19.3	19.3	23.7	23.4	23.3	19.5	19.6	19.6
		25	24	23.1	23.7	24.1	18.4	19.3	19.3	22.7	23.4	23.3	18.5	19.7	19.6
		50	0	21.0	23.6	24.0	16.2	19.2	19.3	20.7	23.4	23.3	16.5	19.6	19.6

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
15.0	QPSK	1	0	21.9	26.7	26.8	17.2	22.1	22.2	21.7	25.8	25.9	17.7	21.5	21.6
		1	37	27.0	26.6	27.0	22.2	22.1	22.1	26.5	25.7	25.8	22.4	21.5	21.6
		1	74	27.0	26.6	26.9	22.1	22.1	22.1	26.5	25.7	25.8	22.5	21.5	21.4
		36	0	22.0	25.7	25.9	17.2	21.1	21.2	21.6	24.8	24.9	17.6	20.6	20.6
		36	16	26.1	25.7	26.0	21.2	21.2	21.2	25.5	24.7	24.9	21.5	20.6	20.6
		36	35	23.1	25.7	26.0	18.2	21.1	21.2	22.6	24.7	24.9	18.5	20.6	20.5
		75	0	22.1	25.7	26.0	17.2	21.2	21.2	21.4	24.7	24.9	17.4	20.6	20.6
	16QAM	1	0	21.1	25.8	26.1	16.4	21.2	21.4	20.9	25.0	25.0	16.9	20.9	20.8
		1	37	26.2	25.8	26.3	21.4	21.3	21.3	25.6	24.9	25.0	21.6	20.8	20.7
		1	74	26.1	25.7	26.2	21.3	21.2	21.3	25.6	24.9	24.9	21.6	20.8	20.6
		36	0	21.1	24.8	25.0	16.2	20.2	20.3	20.7	23.8	24.0	16.6	19.7	19.7
		36	16	25.1	24.8	25.1	20.3	20.2	20.3	24.6	23.8	23.9	20.5	19.7	19.6
		36	35	22.2	24.7	25.1	17.3	20.2	20.2	21.7	23.8	23.9	17.6	19.7	19.6
		75	0	21.1	24.7	25.1	16.2	20.2	20.2	20.5	23.8	23.9	16.5	19.7	19.6
	64QAM	1	0	20.2	25.0	25.0	15.5	20.4	20.5	20.2	24.6	24.6	16.0	20.8	20.9
		1	37	25.2	24.9	25.3	20.4	20.4	20.4	24.6	24.5	24.5	20.6	20.7	20.8
		1	74	25.2	24.8	25.2	20.4	20.3	20.4	24.6	24.5	24.5	20.8	20.7	20.9
		36	0	20.1	23.8	24.0	15.3	19.2	19.3	19.7	23.4	23.3	15.7	19.7	19.7
		36	16	24.2	23.8	24.2	19.3	19.3	19.3	23.6	23.4	23.3	19.5	19.7	19.7
		36	35	21.2	23.7	24.1	16.3	19.2	19.3	20.7	23.4	23.3	16.6	19.7	19.7
		75	0	20.1	23.8	24.1	15.3	19.2	19.2	19.6	23.4	23.3	15.5	19.6	19.7

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
20.0	QPSK	1	0	21.9	26.6	26.8	17.1	22.1	22.2	21.8	25.8	25.9	17.8	21.6	21.7
		1	49	26.9	26.6	27.0	22.1	22.1	22.1	26.5	25.7	25.9	22.5	21.5	21.6
		1	99	27.0	26.5	26.9	22.1	22.1	22.1	26.5	25.7	25.9	22.5	21.6	21.6
		50	0	21.9	25.6	25.9	17.0	21.1	21.1	21.5	24.8	24.9	17.4	20.6	20.6
		50	24	25.9	25.6	25.9	21.1	21.1	21.1	25.5	24.7	24.9	21.4	20.6	20.5
		50	49	22.9	25.6	25.9	18.1	21.1	21.1	22.5	24.7	24.9	18.4	20.6	20.6
		100	0	22.0	25.6	25.9	17.1	21.1	21.1	21.6	24.8	24.9	17.4	20.6	20.6
	16QAM	1	0	21.3	25.9	26.1	16.6	21.4	21.5	21.2	25.2	25.2	17.2	21.0	21.0
		1	49	26.2	25.8	26.2	21.4	21.3	21.4	25.8	25.0	25.2	21.8	20.9	20.9
		1	99	26.3	25.7	26.2	21.4	21.3	21.4	25.8	24.9	25.2	21.7	20.9	20.9
		50	0	21.0	24.7	25.0	16.1	20.1	20.2	20.6	23.9	24.0	16.5	19.6	19.7
		50	24	25.0	24.6	25.0	20.1	20.1	20.2	24.6	23.8	24.0	20.5	19.6	19.6
		50	49	22.0	24.6	24.9	17.1	20.1	20.1	21.6	23.8	23.9	17.5	19.6	19.7
		100	0	21.0	24.7	25.0	16.1	20.1	20.2	20.6	23.8	24.0	16.5	19.6	19.6
	64QAM	1	0	20.3	24.9	25.1	15.6	20.5	20.6	20.3	24.6	24.6	16.2	20.9	20.9
		1	49	25.2	24.8	25.2	20.4	20.4	20.5	24.8	24.5	24.5	20.8	20.8	20.8
		1	99	25.3	24.7	25.2	20.4	20.4	20.4	24.8	24.7	24.5	20.8	20.9	20.8
		50	0	20.0	23.7	24.0	15.2	19.2	19.3	19.6	23.4	23.4	15.6	19.7	19.7
		50	24	24.0	23.6	24.0	19.2	19.2	19.2	23.6	23.4	23.3	19.6	19.7	19.7
		50	49	21.0	23.6	24.0	16.2	19.2	19.2	20.6	23.4	23.3	16.6	19.7	19.7
		100	0	20.0	23.6	24.0	15.2	19.1	19.2	19.6	23.4	23.4	15.5	19.7	19.7

7.1.12. LTE BAND 66

ID:	39004	Date:	4/24/18
-----	-------	-------	---------

OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	QPSK	1	0	25.4	25.5	25.3	21.1	21.4	21.2	24.8	24.9	24.6	21.9	21.9	22.0
		1	2	25.3	25.5	25.3	21.1	21.4	21.2	24.7	24.9	24.5	21.9	21.9	22.0
		1	5	25.4	25.4	25.3	21.1	21.5	21.3	24.8	24.8	24.6	21.9	21.9	22.0
		3	0	25.4	25.5	25.4	21.2	21.4	21.2	24.8	24.9	24.6	21.9	21.8	21.9
		3	1	25.4	25.5	25.4	21.2	21.4	21.1	24.7	24.9	24.5	21.9	21.8	21.9
		3	2	25.4	25.4	25.4	21.2	21.4	21.2	24.7	24.8	24.5	21.9	21.8	21.9
	16QAM	6	0	24.4	24.5	24.4	20.2	20.5	20.2	23.8	23.8	23.5	20.9	20.9	20.9
		1	0	24.7	24.8	24.7	20.4	20.7	20.5	24.0	24.2	23.9	21.2	21.2	21.3
		1	2	24.6	24.7	24.6	20.4	20.7	20.6	24.0	24.1	23.8	21.2	21.1	21.3
		1	5	24.7	24.7	24.6	20.4	20.7	20.6	24.0	24.1	23.9	21.2	21.2	21.3
		3	0	24.5	24.7	24.5	20.2	20.6	20.3	23.9	24.0	23.7	21.0	21.0	21.1
		3	1	24.5	24.6	24.5	20.2	20.6	20.3	23.9	24.0	23.7	21.0	21.0	21.1
	64QAM	3	2	24.5	24.6	24.5	20.2	20.5	20.3	23.9	24.0	23.7	21.0	21.0	21.1
		6	0	23.5	23.5	23.5	19.3	19.5	19.2	22.9	22.9	22.7	20.0	19.9	20.0
		1	0	23.7	23.9	23.7	19.5	19.7	19.5	22.9	23.0	23.0	20.0	20.2	20.3
		1	2	23.7	23.9	23.7	19.4	19.7	19.6	22.9	23.1	22.9	20.1	20.2	20.3
		1	5	23.8	23.8	23.8	19.5	19.7	19.5	23.0	23.1	22.9	20.1	20.2	20.3
		3	0	23.5	23.7	23.6	19.4	19.6	19.4	22.8	23.1	22.8	20.0	20.1	20.2
	64QAM	3	1	23.5	23.7	23.6	19.4	19.6	19.4	22.8	23.0	22.8	20.0	20.1	20.2
		3	2	23.5	23.6	23.6	19.4	19.6	19.4	22.8	22.9	22.8	20.0	20.1	20.2
		6	0	22.4	22.5	22.4	18.3	18.6	18.3	21.8	21.9	21.6	19.0	19.0	19.0

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
3.0	QPSK	1	0	25.3	25.4	25.5	21.1	21.4	21.2	24.6	24.8	24.6	21.8	21.8	22.0
		1	7	25.3	25.4	25.4	21.2	21.5	21.2	24.7	24.8	24.6	22.0	21.9	22.0
		1	14	25.4	25.3	25.4	21.1	21.4	21.2	24.7	24.8	24.5	21.9	21.8	21.9
		8	0	24.4	24.5	24.5	20.2	20.5	20.3	23.8	23.9	23.6	20.9	20.8	21.0
		8	4	24.4	24.5	24.4	20.2	20.4	20.2	23.7	23.9	23.6	20.9	20.8	20.9
		8	7	24.4	24.4	24.4	20.2	20.5	20.2	23.8	23.8	23.6	20.9	20.8	20.9
	16QAM	15	0	24.4	24.4	24.4	20.2	20.5	20.2	23.8	23.8	23.6	20.9	20.8	20.9
		1	0	24.6	24.8	24.8	20.4	20.6	20.6	23.9	24.2	23.9	21.1	21.0	21.2
		1	7	24.7	24.8	24.7	20.4	20.7	20.6	24.0	24.1	23.9	21.2	21.2	21.2
		1	14	24.7	24.7	24.6	20.5	20.7	20.5	24.0	24.1	23.7	21.2	21.0	21.2
		8	0	23.5	23.6	23.6	19.2	19.5	19.2	22.8	23.0	22.8	20.0	19.9	20.0
		8	4	23.4	23.6	23.5	19.2	19.4	19.2	22.8	23.0	22.6	19.9	19.9	19.9
	64QAM	8	7	23.5	23.5	23.5	19.2	19.5	19.2	22.8	22.9	22.6	20.0	19.9	20.0
		15	0	23.4	23.5	23.5	19.2	19.5	19.2	22.8	22.9	22.6	19.9	19.9	20.0
		1	0	23.4	23.7	23.6	19.3	19.5	19.5	22.9	23.1	22.9	20.1	20.1	20.1
		1	7	23.7	23.7	23.8	19.3	19.7	19.4	23.1	23.1	22.9	20.2	20.2	20.3
		1	14	23.7	23.7	23.5	19.3	19.7	19.5	23.0	23.1	22.8	20.1	20.1	20.2
		8	0	22.4	22.6	22.6	18.3	18.6	18.4	21.8	22.0	21.7	19.0	19.0	19.1
	64QAM	8	4	22.5	22.6	22.6	18.2	18.6	18.3	21.8	22.0	21.7	19.0	19.0	19.1
		8	7	22.5	22.6	22.5	18.2	18.6	18.3	21.9	22.0	21.7	19.0	19.0	19.1
		15	0	22.4	22.5	22.5	18.2	18.5	18.2	21.8	21.9	21.6	19.0	18.9	19.0

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
				1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
5.0	QPSK	1	0	25.0	25.4	25.2	21.1	21.1	21.3	24.6	25.0	24.8	20.7	20.9	20.6
		1	12	25.1	25.3	25.2	21.1	21.1	21.2	24.6	24.8	24.8	20.6	20.8	20.6
		1	24	25.2	25.3	25.1	21.2	21.3	21.2	24.7	24.9	24.7	20.7	20.8	20.7
		12	0	24.1	24.5	24.2	20.2	20.3	20.3	23.7	24.1	23.8	19.8	20.0	19.6
		12	6	24.2	24.5	24.2	20.2	20.3	20.3	23.8	24.1	23.8	19.7	19.9	19.6
		12	11	24.2	24.4	24.2	20.2	20.3	20.2	23.8	24.0	23.7	19.7	19.9	19.6
	16QAM	25	0	24.2	24.4	24.2	20.3	20.3	20.3	23.8	24.0	23.8	19.8	19.9	19.6
		1	0	24.4	24.8	24.5	20.4	20.5	20.6	23.9	24.4	24.1	20.1	20.4	19.9
		1	12	24.5	24.7	24.5	20.5	20.5	20.6	24.0	24.2	24.1	20.0	20.3	19.9
		1	24	24.5	24.7	24.5	20.6	20.6	20.5	24.1	24.2	24.1	20.1	20.4	20.0
		12	0	23.3	23.7	23.4	19.3	19.4	19.4	22.8	23.2	23.0	18.9	19.1	18.8
		12	6	23.3	23.7	23.4	19.3	19.4	19.4	22.9	23.2	23.0	18.9	19.0	18.8
	64QAM	12	11	23.4	23.6	23.3	19.3	19.3	19.3	22.9	23.1	22.9	18.9	19.0	18.8
		25	0	23.3	23.5	23.4	19.2	19.2	19.4	22.9	23.1	23.0	18.8	19.0	18.7
		1	0	23.3	23.7	23.5	19.3	19.5	19.6	22.9	23.3	23.1	20.5	20.5	20.5
		1	12	23.4	23.6	23.5	19.5	19.5	19.5	23.0	23.2	23.1	20.5	20.5	20.4
		1	24	23.5	23.6	23.4	19.5	19.7	19.3	23.0	23.2	23.0	20.5	20.6	20.4
		12	0	22.2	22.6	22.3	18.3	18.5	18.3	21.8	22.1	21.9	19.5	19.3	19.3
		12	6	22.3	22.5	22.3	18.4	18.4	18.3	21.8	22.1	21.9	19.5	19.3	19.3
		12	11	22.3	22.5	22.3	18.4	18.4	18.2	21.9	22.0	21.8	19.4	19.3	19.2
		25	0	22.3	22.5	22.3	18.3	18.4	18.4	21.8	22.0	21.9	19.4	19.3	19.3

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
				1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
10.0	QPSK	1	0	25.1	25.4	25.1	21.2	21.2	21.3	24.6	25.0	24.7	20.8	21.0	20.6
		1	24	25.2	25.4	25.2	21.2	21.3	21.3	24.8	25.0	24.7	20.7	20.9	20.6
		1	49	25.2	25.3	25.2	21.2	21.3	21.2	24.7	24.9	24.7	20.8	20.9	20.7
		25	0	24.2	24.4	24.2	20.2	20.2	20.3	23.7	24.0	23.7	19.7	19.9	19.6
		25	12	24.2	24.4	24.2	20.2	20.2	20.3	23.8	24.0	23.7	19.7	19.9	19.6
		25	24	24.2	24.3	24.2	20.2	20.3	20.2	23.7	23.9	23.7	19.7	19.8	19.6
	16QAM	50	0	24.1	24.3	24.2	20.2	20.2	20.2	23.7	23.9	23.7	19.7	19.8	19.5
		1	0	24.4	24.7	24.5	20.5	20.5	20.6	24.0	24.3	24.1	20.2	20.4	20.0
		1	24	24.4	24.7	24.6	20.6	20.6	20.6	24.0	24.3	24.2	20.2	20.3	20.0
		1	49	24.4	24.6	24.6	20.5	20.6	20.6	23.9	24.2	24.1	20.2	20.3	20.0
		25	0	23.3	23.6	23.3	19.3	19.3	19.4	22.9	23.1	22.9	18.8	19.0	18.7
		25	12	23.3	23.5	23.3	19.3	19.3	19.4	22.9	23.1	22.9	18.8	18.9	18.7
	64QAM	25	24	23.3	23.5	23.3	19.3	19.4	19.3	22.8	23.0	22.9	18.8	18.9	18.7
		50	0	23.2	23.4	23.3	19.2	19.3	19.3	22.7	23.0	22.8	18.7	18.9	18.6
		1	0	23.4	23.7	23.5	19.4	19.5	19.6	22.9	23.3	23.0	20.5	20.5	20.4
		1	24	23.4	23.8	23.6	19.5	19.6	19.6	23.0	23.3	23.1	20.5	20.5	20.5
		1	49	23.4	23.6	23.5	19.5	19.6	19.5	23.0	23.1	23.0	20.5	20.5	20.3
		25	0	22.3	22.5	22.3	18.4	18.4	18.4	21.9	22.1	21.9	19.3	19.3	19.3
		25	12	22.3	22.5	22.3	18.4	18.4	18.4	21.9	22.1	21.9	19.4	19.3	19.3
		25	24	22.3	22.5	22.3	18.4	18.4	18.4	21.8	22.0	21.9	19.4	19.3	19.2

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
15.0	QPSK	1	0	25.0	25.2	25.0	21.1	21.1	21.3	24.6	24.8	24.6	20.8	21.0	20.6
		1	37	25.1	25.3	25.2	21.2	21.3	21.3	24.7	24.9	24.7	20.8	20.9	20.6
		1	74	25.1	25.2	25.1	21.1	21.3	21.2	24.6	24.8	24.7	20.9	20.8	20.6
		36	0	24.1	24.3	24.0	20.2	20.2	20.2	23.7	23.9	23.5	19.7	20.0	19.5
		36	16	24.1	24.4	24.2	20.2	20.3	20.3	23.7	23.9	23.7	19.7	19.9	19.5
		36	35	24.1	24.3	24.2	20.1	20.3	20.2	23.6	23.8	23.7	19.7	19.8	19.5
	16QAM	75	0	24.1	24.3	24.2	20.2	20.2	20.3	23.7	23.9	23.7	19.7	19.8	19.6
		1	0	24.2	24.5	24.3	20.4	20.4	20.6	23.8	24.1	23.9	20.2	20.4	19.9
		1	37	24.3	24.6	24.4	20.5	20.6	20.6	23.9	24.1	24.0	20.2	20.4	19.9
		1	74	24.4	24.5	24.4	20.3	20.6	20.5	23.9	24.0	24.0	20.3	20.2	19.9
		36	0	23.2	23.4	23.1	19.2	19.2	19.3	22.7	23.0	22.7	18.7	19.0	18.6
		36	16	23.2	23.5	23.3	19.2	19.3	19.3	22.8	23.1	22.8	18.7	18.9	18.6
	64QAM	36	35	23.1	23.4	23.3	19.1	19.3	19.3	22.7	23.0	22.8	18.7	18.8	18.6
		75	0	23.2	23.4	23.3	19.2	19.3	19.3	22.7	22.9	22.8	18.7	18.9	18.6
		1	0	23.3	23.6	23.4	19.4	19.5	19.6	22.9	23.2	22.9	20.5	20.5	20.5
		1	37	23.4	23.7	23.5	19.5	19.6	19.6	23.0	23.2	23.1	20.5	20.5	20.5
		1	74	23.5	23.5	23.5	19.4	19.6	19.5	23.0	23.1	23.0	20.3	20.4	20.3
		36	0	22.2	22.4	22.1	18.3	18.3	18.3	21.8	22.0	21.7	19.3	19.3	19.2
	64QAM	36	16	22.2	22.5	22.3	18.3	18.3	18.3	21.8	22.1	21.8	19.3	19.3	19.2
		36	35	22.1	22.4	22.3	18.2	18.4	18.3	21.7	22.0	21.8	19.3	19.3	19.2
		75	0	22.1	22.4	22.2	18.3	18.3	18.3	21.7	21.9	21.8	19.2	19.2	19.2

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2			Ant 3			Ant 4		
				Conducted Average			Conducted Average			Conducted Average			Conducted Average		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
20.0	QPSK	1	0	25.1	25.3	25.1	21.2	21.2	21.4	24.6	24.9	24.7	20.8	21.0	20.7
		1	49	25.1	25.4	25.2	21.2	21.3	21.3	24.6	25.0	24.7	20.7	20.9	20.6
		1	99	25.2	25.3	25.2	21.2	21.4	21.2	24.7	24.8	24.7	20.9	20.8	20.7
		50	0	24.1	24.3	24.0	20.2	20.2	20.3	23.6	23.9	23.5	19.7	20.0	19.6
		50	24	24.0	24.3	24.1	20.1	20.2	20.2	23.6	23.9	23.6	19.7	19.8	19.5
		50	49	24.1	24.2	24.1	20.0	20.2	20.2	23.6	23.7	23.7	19.8	19.8	19.6
	16QAM	100	0	24.0	24.3	24.1	20.1	20.3	20.3	23.6	23.9	23.7	19.7	19.8	19.6
		1	0	24.4	24.6	24.5	20.5	20.5	20.7	23.9	24.1	24.0	20.2	20.5	20.1
		1	49	24.3	24.7	24.4	20.5	20.7	20.6	23.9	24.3	23.9	20.1	20.4	19.9
		1	99	24.5	24.5	24.5	20.5	20.7	20.5	24.0	24.1	24.0	20.3	20.2	20.0
		50	0	23.1	23.4	23.1	19.2	19.2	19.3	22.7	23.0	22.7	18.7	19.0	18.7
		50	24	23.1	23.4	23.1	19.1	19.3	19.3	22.7	23.0	22.7	18.7	18.9	18.6
	64QAM	50	49	23.2	23.3	23.2	19.1	19.3	19.3	22.7	22.8	22.8	18.9	18.8	18.6
		100	0	23.1	23.4	23.2	19.2	19.3	19.3	22.7	22.9	22.8	18.7	18.8	18.6
		1	0	23.4	23.7	23.5	19.6	19.6	19.8	23.0	23.2	23.1	20.6	20.5	20.3
		1	49	23.4	23.9	23.5	19.5	19.7	19.7	23.0	23.4	23.0	20.5	20.6	20.3
		1	99	23.6	23.6	23.6	19.5	19.7	19.6	23.1	23.2	23.1	20.4	20.6	20.2
		50	0	22.1	22.4	22.0	18.2	18.2	18.3	21.7	21.9	21.6	19.3	19.2	19.1
	64QAM	50	24	22.1	22.4	22.1	18.1	18.3	18.3	21.7	21.9	21.7	19.2	19.2	19.1
		50	49	22.2	22.3	22.2	18.1	18.3	18.3	21.7	21.9	21.8	19.1	19.2	19.1
		100	0	22.1	22.4	22.1	18.1	18.3	18.3	21.7	21.9	21.7	19.2	19.2	19.1

7.1.13. LTE BAND 71

ID:	10646	Date:	4/23/18
------------	-------	--------------	---------

OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				133147	133297	133447	133147	133297	133447
5.0	QPSK	1	0	665.5	680.5	695.5	665.5	680.5	695.5
		1	12	25.4	25.2	25.3	24.5	24.3	24.4
		1	24	25.4	25.3	25.2	24.4	24.4	24.4
		1	24	25.5	25.3	25.2	24.4	24.4	24.5
		12	0	24.4	24.4	24.3	23.4	23.3	23.3
		12	6	24.4	24.4	24.2	23.4	23.3	23.3
		12	11	24.4	24.4	24.2	23.4	23.3	23.3
	16QAM	25	0	24.4	24.4	24.3	23.5	23.3	23.4
		1	0	24.8	24.7	24.7	24.0	23.8	23.8
		1	12	24.7	24.7	24.6	23.9	23.9	23.8
		1	24	24.8	24.7	24.7	23.9	23.8	23.9
		12	0	23.5	23.5	23.5	22.4	22.3	22.4
		12	6	23.5	23.5	23.5	22.4	22.3	22.4
		12	11	23.5	23.5	23.5	22.4	22.3	22.4
	64QAM	25	0	23.5	23.4	23.4	22.4	22.3	22.4
		1	0	23.7	23.6	23.6	22.9	22.8	22.7
		1	12	23.7	23.7	23.5	22.7	22.7	22.8
		1	24	23.7	23.7	23.5	22.7	22.8	22.8
		12	0	22.5	22.5	22.3	21.4	21.4	21.3
		12	6	22.5	22.4	22.3	21.4	21.4	21.3
		12	11	22.5	22.4	22.3	21.4	21.3	21.3
		25	0	22.5	22.5	22.3	21.4	21.3	21.3

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				133172	133297	133422	133172	133297	133422
10.0	QPSK	1	0	668.0	680.5	693.0	668.0	680.5	693.0
		1	24	25.2	25.3	25.5	24.5	24.3	24.4
		1	49	25.1	25.2	25.3	24.4	24.3	24.4
		1	49	25.2	25.2	25.3	24.5	24.4	24.5
		25	0	24.0	24.1	24.3	23.5	23.4	23.4
		25	12	24.1	24.1	24.2	23.4	23.3	23.4
		25	24	24.1	24.1	24.1	23.5	23.3	23.4
	16QAM	50	0	24.1	24.0	24.1	23.4	23.3	23.4
		1	0	24.4	24.4	24.7	23.8	23.7	23.7
		1	24	24.5	24.5	24.6	23.7	23.7	23.7
		1	49	24.5	24.5	24.5	23.8	23.7	23.9
		25	0	23.2	23.2	23.5	22.5	22.4	22.4
		25	12	23.3	23.2	23.4	22.4	22.4	22.5
		25	24	23.3	23.3	23.3	22.5	22.4	22.5
	64QAM	50	0	23.2	23.2	23.2	22.5	22.3	22.4
		1	0	23.5	23.4	23.7	22.8	22.6	22.6
		1	24	23.5	23.5	23.5	22.7	22.6	22.6
		1	49	23.5	23.5	23.5	22.8	22.7	22.8
		25	0	22.3	22.3	22.5	21.5	21.4	21.4
		25	12	22.3	22.3	22.4	21.4	21.3	21.5
		25	24	22.3	22.2	22.3	21.5	21.3	21.5
		50	0	22.3	22.2	22.3	21.5	21.3	21.5

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				133197	133297	133397	133197	133297	133397
				670.5	680.5	690.5	670.5	680.5	690.5
15.0	QPSK	1	0	25.5	25.3	25.4	24.3	24.3	24.3
		1	37	25.4	25.3	25.5	24.2	24.4	24.4
		1	74	25.5	25.5	25.3	24.3	24.3	24.5
		36	0	24.3	24.3	24.4	23.2	23.3	23.4
		36	16	24.3	24.3	24.5	23.2	23.4	23.4
		36	35	24.3	24.3	24.3	23.2	23.3	23.5
	16QAM	75	0	24.4	24.3	24.5	23.3	23.4	23.5
		1	0	24.8	24.5	24.6	23.6	23.6	23.7
		1	37	24.7	24.7	24.8	23.6	23.7	23.7
		1	74	24.9	24.8	24.7	23.5	23.7	23.8
		36	0	23.4	23.4	23.6	22.2	22.4	22.4
		36	16	23.5	23.5	23.6	22.2	22.4	22.5
	64QAM	36	35	23.5	23.4	23.5	22.2	22.3	22.5
		75	0	23.5	23.5	23.6	22.3	22.4	22.5
		1	0	23.8	23.7	23.8	22.6	22.6	22.7
		1	37	23.8	23.9	24.0	22.7	22.8	22.7
		1	74	24.0	23.9	23.8	22.6	22.7	22.8
		36	0	22.5	22.5	22.6	21.3	21.4	21.4
		36	16	22.5	22.5	22.7	21.3	21.4	21.4
		36	35	22.6	22.5	22.5	21.3	21.4	21.5
		75	0	22.5	22.5	22.6	21.3	21.3	21.4

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Ant 1			Ant 2		
				Conducted Average			Conducted Average		
				133222	133297	133372	133222	133297	133372
				673.0	680.5	688.0	673.0	680.5	688.0
20.0	QPSK	1	0	25.4	25.4	25.4	24.5	24.4	24.1
		1	49	25.3	25.5	25.4	24.3	24.4	24.1
		1	99	25.5	25.4	25.3	24.5	24.4	24.3
		50	0	24.3	24.3	24.2	23.3	23.4	23.1
		50	24	24.2	24.4	24.3	23.4	23.4	23.2
		50	49	24.4	24.2	24.2	23.4	23.4	23.2
	16QAM	100	0	24.3	24.5	24.4	23.4	23.6	23.2
		1	0	24.7	24.7	24.6	23.9	23.9	23.5
		1	49	24.7	24.9	24.7	23.7	23.8	23.4
		1	99	24.9	24.8	24.6	23.9	23.8	23.7
		50	0	23.4	23.5	23.3	22.4	22.5	22.1
		50	24	23.4	23.6	23.5	22.4	22.5	22.3
	64QAM	50	49	23.5	23.4	23.5	22.5	22.5	22.5
		100	0	23.4	23.6	23.6	22.4	22.6	22.5
		1	0	23.6	23.8	23.8	22.6	22.6	22.5
		1	49	23.6	24.0	23.9	22.6	22.6	22.5
		1	99	23.8	24.0	23.9	22.7	22.5	22.7
		50	0	22.5	22.5	22.3	21.4	21.5	21.4
		50	24	22.5	22.6	22.5	21.4	21.5	21.4
		50	49	22.6	22.4	22.5	21.5	21.5	21.5
		100	0	22.5	22.7	22.6	21.5	21.6	21.5