



# FCC RADIO TEST REPORT

FCC ID : A4RG025E

Equipment : Phone Model Name : G025E

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Apr. 30, 2020 and testing was started from May 09, 2020 and completed on Jul. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

TEL: 886-3-327-3456

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

FAX: 886-3-328-4978
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Report No. : FG022521-02B

# History of this test report

Report No. : FG022521-02B

Report No.	Version	Description	Issued Date
FG022521-02B	01	Initial issue of report	Jun. 26, 2020
FG022521-02B	02	Revise conducted data     Add remark for Radiated Spurious Emission     Measurement	Jul. 06, 2020

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# **Summary of Test Result**

Report No. : FG022521-02B

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
	§2.1046	.1046 Conducted Output Power		
	§22.913 (a)(2)	Effective Radiated Power (Band 5) (Band 26)		
3.2	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	Dana	-
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)	Pass	
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Yeak-to-Average Ratio		-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	\$2.1051 \$22.917 (a) \$24.238 (a) \$27.53 (c)(2)(4) \$27.53 (g) \$27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
3.6	\$2.1051 \$22.917 (a) \$24.238 (a) \$27.53 (c)(2) \$27.53 (g) \$27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	\$2.1053 \$22.917 (a) \$24.238 (a) \$27.53 (c)(2) \$27.53 (f) \$27.53 (g) \$27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 3.94 dB at 5338.000 MHz for Primary Antenna Under limit 18.46 dB at
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		1564.000 MHz for ASDIV Antenna

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang Report Producer: Lucy Wu

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# 1 General Description

# 1.1 Product Feature of Equipment Under Test

Product Feature						
Equipment	Phone					
Model Name	G025E					
FCC ID	A4RG025E					
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE					

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Remark: The above EUT's information was declared by manufacturer.

EUT Information List								
S/N	Performed Test Item							
04211FQCB00048	Conducted Measurement ERP/EIRP							
04241FQCB00320	Radiated Spurious Emission							

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# 1.2 Product Specification of Equipment Under Test

Standards-rel	ated Product Specification
Otanida 101	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz
	LTE Band 4: 1710.7 MHz ~ 1754.3 MHz
	LTE Band 5: 824.7 MHz ~ 848.3 MHz
	LTE Band 7: 2502.5 MHz ~ 2567.5 MHz
	LTE Band 12: 699.7 MHz ~ 715.3 MHz
	LTE Band 13: 779.5 MHz ~ 784.5 MHz
Tx Frequency	LTE Band 17: 706.5 MHz ~ 713.5 MHz
1X 1 requeriey	LTE Band 25: 1850.7MHz ~ 1914.3 MHz
	LTE Band 26: 824.7MHz ~ 848.3 MHz
	LTE Band 38: 2572.5 MHz ~ 2617.5 MHz
	LTE Band 41: 2498.5 MHz ~ 2687.5 MHz
	LTE Band 66: 1710.7 MHz ~ 1779.3 MHz
	LTE Band 71: 665.5 MHz ~ 695.5 MHz
	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz
	LTE Band 4: 2110.7 MHz ~ 2154.3 MHz
	LTE Band 5: 869.7 MHz ~ 893.3 MHz
	LTE Band 7: 2622.5MHz ~ 2687.5 MHz
	LTE Band 12: 729.7 MHz ~ 745.3 MHz
	LTE Band 13: 748.5 MHz ~ 753.5 MHz
Rx Frequency	LTE Band 17: 736.5 MHz ~ 743.5 MHz
	LTE Band 25: 1930.7MHz ~ 1994.3 MHz
	LTE Band 26: 869.7MHz ~ 893.3MHz
	LTE Band 38: 2572.5MHz ~ 2617.5MHz
	LTE Band 41: 2498.5 MHz ~ 2687.5 MHz
	LTE Band 66: 2110.7 MHz ~ 2179.3 MHz
	LTE Band 71: 619.5 MHz ~ 649.5 MHz
	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /
	20MHz
	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /
	20MHz
	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz
	LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz
	LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz
	LTE Band 13: 5MHz / 10MHz
Bandwidth	LTE Band 17: 5MHz / 10MHz
	LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /
	20MHz
	LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
	LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz
	LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /
	20MHz
	LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz
	LIE Daliu / I. SIVIDZ / TUIVIDZ / TSIVIDZ / ZUIVIDZ

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Standards-related Product Specification <Primary Antenna> <Ant. 0> LTE Band 5: 24.55 dBm LTE Band 5\_CA: 25.66dBm LTE Band 12: 24.72 dBm LTE Band 13: 23.99 dBm LTE Band 17: 24.70 dBm LTE Band 26: 24.59 dBm LTE Band 71: 24.77 dBm <Ant. 2> LTE Band 2: 24.42 dBm LTE Band 4: 24.88 dBm LTE Band 7: 24.98 dBm LTE Band 7\_CA: 25.68 dBm LTE Band 25: 24.48 dBm LTE Band 38: 24.64 dBm LTE Band 41: 24.84 dBm LTE Band 41: 26.08 dBm for HPUE LTE Band 41\_CA: 25.49 dBm LTE Band 66: 24.76 dBm LTE Band 66B\_CA: 25.69 dBm LTE Band 66C\_CA: 25.64 dBm **Maximum Output Power to Antenna** <ASDIV Antenna> <Ant. 0> LTE Band 2: 24.30 dBm LTE Band 4: 24.80 dBm LTE Band 7: 24.58 dBm LTE Band 7 CA: 25.67 dBm LTE Band 25: 24.39 dBm LTE Band 38: 24.42 dBm LTE Band 41: 24.77 dBm LTE Band 41: 26.57 dBm for HPUE LTE Band 41\_CA: 25.48 dBm LTE Band 66: 24.78 dBm LTE Band 66B\_CA: 25.67 dBm LTE Band 66C CA: 25.62 dBm <Ant. 1> LTE Band 5: 24.69 dBm LTE Band 5\_CA: 25.53dBm LTE Band 12: 24.40 dBm LTE Band 13: 24.05 dBm LTE Band 17: 24.85 dBm LTE Band 26: 24.78 dBm LTE Band 71 : 24.77 dBm <Primary Antenna>: <Ant. 0>: PIFA Antenna type <Ant. 2>: Monopole Antenna type Antenna Type <ASDIV Antenna>: <ah>Ant. 0>: PIFA Antenna type</a> <ant. 1>: PIFA Antenna type Type of Modulation QPSK / 16QAM / 64QAM

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### <Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B2	ANT2	2.2
LTE	B4	ANT2	1.2
LTE	B5	ANT0	-2.8
LTE	B7	ANT2	-1.5
LTE	B12	ANT0	-3.9
LTE	B13	ANT0	-3.9
LTE	B17	ANT0	-3.9
LTE	B25	ANT2	2.2
LTE	B26	ANT0	-2.8
LTE	B38	ANT2	-0.9
LTE	B41	ANT2	-0.9
LTE	B41HPUE	ANT2	-0.9
LTE	B66	ANT2	1.2
LTE	B71	ANT0	-5.1

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#### <ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B2	ANT0	0.4
LTE	B4	ANT0	0.8
LTE	B5	ANT1	-3.5
LTE	В7	ANT0	-0.5
LTE	B12	ANT1	-6.1
LTE	B13	ANT1	-5.4
LTE	B17	ANT1	-6.1
LTE	B25	ANT0	0.4
LTE	B26	ANT1	-3.5
LTE	B38	ANT0	-1.0
LTE	B41	ANT0	0.0
LTE	B41HPUE	ANT0	-0.9
LTE	B66	ANT0	0.8
LTE	B71	ANT1	-7.3

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### 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
rest site No.	TH05-HY
Test Engineer	Luffy Lin
Temperature	22~24°C
Relative Humidity	51~55%

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Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory						
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855						
Test Site No.	Sporton Site No.						
1001 01101	03CH12-HY	03CH13-HY					
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu	Daniel Lee, Jacky Hung and Wilson Wu					
Temperature	20~26°C	20~25°C					
Relative Humidity	52~66%	50~60%					

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

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### 1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
- 3. The TAF code is not including all the FCC KDB listed without accreditation.

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## 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Primary Antenna: X plane for Band 12, 26, 66B\_CA, 66C\_CA, 71; Y plane for Band 5B\_CA, 7, 25, 38, 66; Z plane for Band 7C\_CA, 13, 41 (HPUE), 41C\_CA (HPUE); ASDIV Antenna: X plane for Band 5B\_CA, 7C\_CA, 26, 38, 66, 66C\_CA, 71; Y plane for Band 25, 41 (HPUE), 41C\_CA (HPUE); Z plane for Band 7, 12, 13, 66B\_CA) were recorded in this report.

T	Donal		В	andwid	dth (MF	łz)		ı	Modulatio	n	RB#			Test Channel		
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
	2	v	v	v	v	v	v	v	v	v	v	v	v	v	٧	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	٧	v
	5	v	٧	٧	٧	•	•	٧	v	v	٧	v	v	٧	v	v
	7	•	•	٧	٧	٧	v	٧	v	v	٧	v	v	٧	v	v
	12	v	٧	>	>	•	-	>	v	v	>	v	>	>	v	v
Max.	13	-	•	>	>	•	-	>	v	v	>	v	>	>	v	v
Output	17	•	•	>	>	•	•	>	v	v	>	v	>	>	v	v
Power	25	v	٧	>	>	>	v	>	v	v	>	v	>	>	v	v
	26	v	٧	>	>	>	-	>	v	v	>	v	>	>	v	v
	38	-	•	>	>	>	v	>	v	v	>	v	>	>	v	v
	41	-	•	٧	٧	٧	v	٧	v	v	٧	v	v	٧	v	v
	66	v	v	٧	٧	٧	v	٧	v	v	٧	v	v	٧	v	v
	71	-	•	v	v	v	V	v	v	v	v	v	V	٧	v	v

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			В	andwic	dth (MF	łz)		ı	Modulatio	n		RB#		Tes	t Chan	nel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
	2							Cover	ed by Bar	nd 25						
	4							Cover	ed by Bar	nd 66						
	5							Cover	ed by Bar	nd 26						
	7	-	-				v	v	v	v	٧		v	v	v	v
	12				v	-	-	v	v	v	٧		v	v	v	v
	13				٧	-	-	v	v	v	٧		v		v	
Peak-to-Av erage Ratio	17							Cover	ed by Bar	nd 12						
orago ramo	25						٧	v	v	v	٧		v	v	v	٧
	26					v	-	v	v	v	٧		v	v	v	٧
	38	•					v	v	v	v	٧		v	v	v	٧
	41						v	v	v	v	v		v	v	v	٧
	66						٧	v	v	v	٧		٧	v	v	v
	71						>	v	v	v	>		>	v	v	v
	2							Cover	ed by Bar	nd 25						
	4							Cover	ed by Bar	nd 66						
	5							Cover	ed by Bar	nd 26						
	7	-	-	v	v	v	v	٧	٧	v			v	v	V	v
	12	v	v	v	v	-	-	٧	٧	v			v	v	V	v
26dB and	13	-	-	v	v	-	-	<b>&gt;</b>	٧	v			v	v	v	v
99%	17					_		Cover	ed by Bar	nd 12						
Bandwidth	25	v	v	v	v	v	v	٧	٧	v			v	v	v	v
	26	v	v	v	v	v	-	٧	٧	v			v	v	v	v
	38	-	-	v	v	v	v	٧	٧	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	V	V	v
	66	V	٧	v	v	v	v	v	v	v			v	V	V	v
	71	-	-	v	v	v	v	v	v	v			v	v	v	v

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			В	andwid	dth (MF	łz)			Modulatio	n		RB#		Tes	st Char	nel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
	2							Cover	ed by Bar	nd 25						
	4							Cover	ed by Bar	nd 66						
	5							Cover	ed by Bar	nd 26						
	7	-	-	٧	v	٧	v	v	v	v	v		<b>v</b>	v		٧
	12	٧	v	v	v	-	•	v	v	v	v		٧	v		v
	13	•	•	v	v	-	•	v	٧	v	v		٧	v		v
Conducted Band Edge	17							Cover	ed by Bar	nd 12						
J	25	v	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v		٧	v		v
	2							Cover	ed by Bar	nd 25						
	4							Cover	ed by Bar	nd 66						
	5							Cover	ed by Bar	nd 26						
	7	-	-	٧	٧	٧	v	v	v	v	v			v	V	v
	12	v	٧	٧	٧	-	-	v	v	v	v			v	V	v
Conducted	13	-	-	٧	٧	-	-	v	v	v	v			v	V	v
Spurious	17							Cover	ed by Bar	nd 12						
Emission	25	v	v	٧	v	v	v	v	V	v	v			v	V	v
	26	v	V	٧	v	v	-	v	V	v	v			v	V	v
	38	-	-	٧	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	66	v	٧	٧	٧	v	V	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	V	v	V	V			v	v	v

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			В	andwid	dth (MF	łz)		ı	Modulatio	n		RB#		Te	st Char	inel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
	2							Cover	ed by Bar	nd 25						
	4							Cover	ed by Bar	nd 66						
	5							Cover	ed by Bar	nd 26						
	7		•		v			v					v		v	
	12				v	-	•	v					v		v	
	13	•	•		v	-	•	v					v		v	
Frequency Stability	17							Cover	ed by Baı	nd 12						
,	25				v			v					٧		v	
	26				v		-	v					٧		v	
	38	•	•		v			v					v		v	
	41	•	•		v			v					v		v	
	66				v			v					v		v	
	71	•	•		v			v					v		v	
	2	v	٧	٧	v	v	v	v	v	v	v			v	v	v
	4	v	>	>	v	v	v	v	v	v	v			v	v	v
	5	v	v	٧	v	-	-	v	v	v	v			v	v	v
	7	-	-	>	v	v	v	v	٧	v	v			v	v	v
	12	v	v	٧	v	-	-	v	v	v	v			v	v	v
	13	-	-	٧	v	-	-	v	v	v	v			v	v	v
E.R.P / E.I.R.P	17	-	-	٧	v	-	-	v	v	v	v			v	v	v
	25	v	V	٧	v	v	v	v	v	v	v			v	v	v
	26	v	v	٧	v	v	-	v	v	v	v			v	v	v
	38	-	-	٧	v	v	v	v	v	v	v			v	v	v
	41	-	•	٧	v	v	v	v	v	v	v			v	v	v
	66	v	٧	٧	v	v	v	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			V	V	v

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				В	andwi	dth (MI	Hz)		ı	Modulatio	n		RB#		Tes	t Char	nnel
Test Items	Ban	d	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
	2				•			Cove	red by Ba	nd 25					•		
	4							Cove	red by Ba	nd 66							
	5							Cove	red by Ba	nd 26							
	7							W	orst Cas	е					v	v	v
	12							W	orst Case	е					v	v	٧
Radiated	13							W	orst Case	е					v	v	v
Spurious	17	'			Covered by Band 12												
Emission	25							W	orst Case	е					v	v	v
	26							W	orst Case	е					v	v	v
	38							W	orst Case	е					v	v	٧
	41							W	orst Case	е					v	v	v
	66							W	orst Case	е					v	v	٧
	71							W	orst Case	е					v	v	v
							-		chosen fo	•							
									supported								
					-					ndamenta	•						nder
Remark			erent K orted.	D SIZE	onset a	and mo	uulallol	iis iii ex	Jioratory t	est. Subse	quentiy, 0	iny the	e worst	Jase en	แรรเบท	sale	
				iated t	est cas	es were	eperfor	med wit	h Adapter	1 and US	B Cable 1.						
							•		•	when the p			or the sa	ame.			
	6.	For	LTE B	and 13	s, radiat	ed spu	rious e	missions	s measure	ment in 15	559-1610 l	MHz w	vere wid	eband e	emissio	ns.	

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			Band	dwidth (	MHz)		ı	Modulatio	n		RB#		Test	Chan	nel
Test Items	Band	3+5	5+3	5+10	10+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output Power	5_CA			v	٧	v	٧	v	v	>	v	v	٧	٧	v
26dB and 99% Bandwidth	5_CA			v	٧	v	V	v	v			v	٧	v	v
Conducted Band Edge	5_CA			v	٧	v	٧	v	v	>		v	٧		v
Conducted Spurious Emission	5_CA			v	٧	v	V	v	v	٧			٧	v	v
E.R.P.	5_CA			v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	5_CA						Worst Ca	se					٧	v	v
Remark	<ol> <li>The difference</li> </ol>	e mark " e device erent RE oorted.	-" means is inves 3 size/off	that this tigated fr fset and	s bandwi om 30M modulati	dth is no IHz to 10 ions in e	xploratory	ed. undament test. Subs	al signal fo equently, o	only the	•				der

Test Items	Band				Ва	ndwid	lth (M	Hz)				М	odulatio	on		RB#	•		Test nann	
Tool Homo	Dana	20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	٧	v	٧	٧	v
Power	41_CA	v	v	v	v	v	v	٧	v	v	v	٧	v	v	v	v	٧	٧	٧	v
26dB and	7_CA	v	v	v	v	v	-	-	v	v	•	٧	v	v			v	v	v	v
99% Bandwidth	41_CA	v	v	٧	٧	>	٧	>	v	v	v	٧	٧	v			٧	>	>	٧
Conducted	7_CA	٧	٧	v	v	v	-	-	٧	v	•	v	v	v	v		v	٧		v
Band Edge	41_CA	v	v	v	v	v	v	٧	v	v	v	v	v	v	v		v	٧		v
Conducted	7_CA	٧	٧	v	v	٧	-	-	٧	٧		٧	v	v	v			٧	٧	v
Spurious Emission	41_CA	v	٧	٧	٧	٧	٧	٧	v	v	v	٧	٧	v	v			٧	٧	٧
FIDD	7_CA	v	v	٧	٧	٧	1	1	v	٧	•	٧	٧	v	v			>	>	v
E.I.R.P.	41_CA	v	v	>	>	>	>	>	v	٧	>	>	<b>&gt;</b>	v	v			>	>	v
Radiated	7_CA		_						Wors	t Case	9					-		٧	٧	v
Spurious Emission	41_CA								Wors	t Case	Э							٧	٧	v
Remark	2. The 3. The diff rep	erent f orted.	: "-" me ce is in RB size	eans the vestigne e/offse	nat this ated fr t and i	band om 30 modula	width i MHz t ations	s not s o 10 ti in exp	suppor mes o lorator	ted. f funda y test.	amenta Subse	•	, only th	ated spur						er

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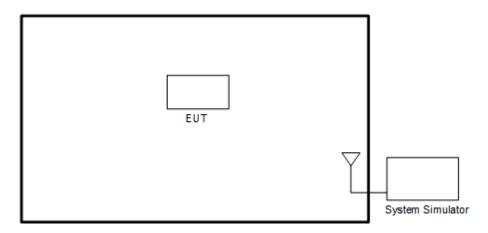
Test Items	Band		Ва	andwid	lth (MF	łz)		ı	Modulatio	n		RB#			Test hann	el
	24.14	5+5	5+10	10+5	5+15	15+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output Power	66B_CA	V	v	٧	٧	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	66B_CA	V	v	٧	٧	v	v	v	v	v			v	v	v	v
Conducted Band Edge	66B_CA	v	٧	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	66B_CA	٧	v	٧	٧	v	v	v	v	v	v		v	v	v	v
E.I.R.P.	66B_CA	٧	٧	v	٧	٧	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	66B_CA						W	orst Case	e					v	v	v
Remark	<ol> <li>The n</li> <li>The c</li> <li>under</li> <li>are re</li> </ol>	nark "-' levice i differe ported	' means s inves ent RB s	s that th tigated size/off	nis band from 3 set and	dwidth OMHz t I modul	is not su to 10 tim	n explorato	lamental si	gnal for rail						ıs

Test Items	Band				Ва	ndwic	ith (M	Hz)				M	odulatio	on		RB#			Test nanr	
Tool Home		10+15	15+10	10+20	20+10	15+15	15+20	20+15	20+5	5+20	20+20	QPSK	16QAM	64QAM	1	Half	Full	٦	М	н
Max. Output Power	66C_CA	v	v	٧	٧	v	v	v	٧	٧	v	٧	v	٧	٧	v	v	v	٧	٧
26dB and 99% Bandwidth	66C_CA	v	v	v	٧	v	v	v	v	٧	v	٧	v	٧			v	v	٧	v
Conducted Band Edge	66C_CA	v	v	٧	٧	v	v	v	٧	٧	v	>	v	٧	٧		v	v		٧
Conducted Spurious Emission	66C_CA	v	v	>	>	v	v	v	<b>v</b>	>	v	٧	v	٧	>			٧	>	v
E.I.R.P.	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	٧		v	v	v	v
Radiated Spurious Emission	66C_CA								Wor	st Cas	se							v	v	v
Remark	<ol> <li>The r</li> <li>The difference</li> </ol>	The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1 and USB Cable 1.																		

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# 2.2 Connection Diagram of Test System

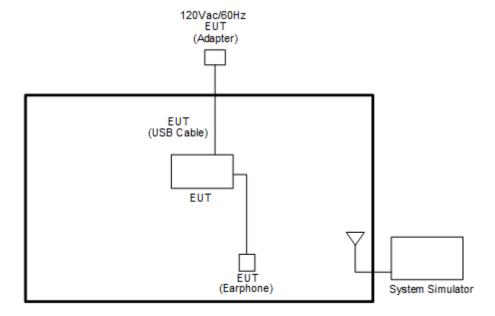
#### <EUT Standalone>



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: 02

#### <EUT with Accessory>



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## 2.3 Support Unit used in test configuration and system

lte	m	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1		System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

Report No.: FG022521-02B

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

#### Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ 

$$= 4.2 + 10 = 14.2 (dB)$$

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# 2.5 Frequency List of Low/Middle/High Channels

	LTE Band 2 Chan	nel and Frequenc	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
00	Channel	18700	18900	19100
20	Frequency	1860	1880	1900
45	Channel	18675	18900	19125
15	Frequency	1857.5	1880	1902.5
40	Channel	18650	18900	19150
10	Frequency	1855	1880	1905
Г	Channel	18625	18900	19175
5	Frequency	1852.5	1880	1907.5
^	Channel	18615	18900	19185
3	Frequency	1851.5	1880	1908.5
4.4	Channel	18607	18900	19193
1.4	Frequency	1850.7	1880	1909.3

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	LTE Band 4 Cha	nnel and Frequenc	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
00	Channel	20050	20175	20300
20	Frequency	1720	1732.5	1745
45	Channel	20025	20175	20325
15	Frequency	1717.5	1732.5	1747.5
40	Channel	20000	20175	20350
10	Frequency	1715	1732.5	1750
_	Channel	19975	20175	20375
5	Frequency	1712.5	1732.5	1752.5
2	Channel	19965	20175	20385
3	Frequency	1711.5	1732.5	1753.5
4.4	Channel	19957	20175	20393
1.4	Frequency	1710.7	1732.5	1754.3

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	LTE Band 5 Cha	annel and Frequenc	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	20450	20525	20600
10	Frequency	829	836.5	844
E	Channel	20425	20525	20625
5	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
3	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
1.4	Frequency	824.7	836.5	848.3
	LTE Band 7 Cha	annel and Frequenc	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
20	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
15	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
10	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
3	Frequency	2502.5	2535	2567.5
	LTE Band 12 Ch	annel and Frequen	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
10	Frequency	704	707.5	711
5	Channel	23035	23095	23155
3	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
3	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
1.4	Frequency	699.7	707.5	715.3

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	LTE Band 13 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	-	23230	-
10	Frequency	-	782	-
F	Channel	23205	23230	23255
5	Frequency	779.5	782	784.5
	LTE Band 17 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	23780	23790	23800
10	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5
	LTE Band 25 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
20	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
15	Frequency	1857.5	1880	1907.5
40	Channel	26090	26340	26640
10	Frequency	1855	1880	1910
_	Channel	26065	26340	26665
5	Frequency	1852.5	1880	1912.5
2	Channel	26055	26340	26675
3	Frequency	1851.5	1880	1913.5

26047

1850.7

26340

1880

26683

1914.3

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Channel

Frequency

1.4

	LTE Band 26 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
10	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
5	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
J	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
1.4	Frequency	824.7	836.5	848.3
	LTE Band 38 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
	Channel	37850	38000	38150
20	Frequency	2580.0	2595.0	2610.0
45	Channel	37825	38000	38175
15	Frequency	2577.5	2595.0	2612.5
40	Channel	37800	38000	38200
10	Frequency	2575.0	2595.0	2615.0
F	Channel	37775	38000	38225
5	Frequency	2572.5	2595.0	2617.5
	LTE Band 41 Cha	annel and Frequer	ncy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
20	Frequency	2506.0	2593.0	2680.0
45	Channel	39725	40620	41515
15	Frequency	2503.5	2593.0	2682.5
40	Channel	39700	40620	41540
10	Frequency	2501.0	2593.0	2685.0

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2501.0

39675

2498.5

2593.0

40620

2593.0

2685.0

41565

2687.5

Report Template No.: BU5-FGLTE Version 2.4 Report Version : 02

Frequency

Channel

Frequency

5

LTE Band 66 Channel and Frequency List							
BW [MHz]	Channel/Frequency(MHz)	Highest					
20	Channel	132072	132322	132572			
20	Frequency	1720	1745	1770			
15	Channel	132047	132322	132597			
15	Frequency	1717.5	1745	1772.5			
10	Channel	132022	132322	132622			
10	Frequency	1715	1745	1775			
5	Channel	131997	132322	132647			
5	Frequency	1712.5	1745	1777.5			
2	Channel	131987	132322	132657			
3	Frequency	1711.5	1745	1778.5			
1.4	Channel	131979	132322	132665			
1.4	Frequency	1710.7	1745	1779.3			

LTE Band 71 Channel and Frequency List							
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest			
20	Channel	133222	133297	133372			
20	Frequency	673.0	680.5	688.0			
45	Channel	133197	133297	133397			
15	Frequency	670.5	680.5	690.5			
10	Channel	133172	133297	133422			
	Frequency	668.0	680.5	693.0			
5	Channel	133147	133297	133447			
	Frequency	665.5	680.5	695.5			

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LTE Band 5 Channel and Frequency List_CA						
BW [MHz]	Channel	//Frequency(MHz)	Middle	Highest		
	PCC	Channel	20428	20478	20528	
5 + 10	PCC	Frequency	826.8	831.8	836.8	
5 + 10	000	Channel	20500	20550	20600	
	SCC	Frequency	834.0	839.0	844.0	
	PCC	Channel	20450	20500	20550	
40 . 5		Frequency	829.0	834.0	839.0	
10 + 5	SCC	Channel	20522	20572	20622	
		Frequency	836.2	841.2	846.2	
	PCC	Channel	20450	20476	20501	
10 + 10	PCC	Frequency	829.0	831.6	834.1	
	800	Channel	20549	20575	20600	
	SCC	Frequency	838.9	841.5	844.0	

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LTE Band 7 Channel and Frequency List_CA							
BW [MHz]	Channel	/Frequency(MHz)	Lowest	Middle	Highest		
	500	Channel	20850	21001	21152		
00 . 00	PCC	Frequency	2510.0	2525.1	2540.2		
20 + 20	000	Channel	21048	21199	21350		
	SCC	Frequency	2529.8	2544.9	2560.0		
	PCC	Channel	20850	21026	21201		
20 + 15	PCC	Frequency	2510.0	2527.6	2545.1		
20 + 15	SCC	Channel	21021	21197	21372		
	SCC	Frequency	2527.1	2544.7	2562.2		
	PCC	Channel	20828	21003	21179		
15 + 20	PCC	Frequency	2507.8	2525.3	2542.9		
15 + 20	SCC	Channel	20999	21174	21350		
		Frequency	2524.9	2542.4	2560.0		
	PCC	Channel	20850	21051	21251		
20 + 10		Frequency	2510.0	2530.1	2550.1		
20 + 10	SCC	Channel	20994	21195	21395		
		Frequency	2524.4	2544.5	2564.5		
	PCC	Channel	20805	21006	21206		
10 + 20		Frequency	2505.5	2525.6	2545.6		
10 + 20	SCC	Channel	20949	21150	21350		
	SCC	Frequency	2519.9	2540.0	2560.0		
	PCC	Channel	20825	21025	21225		
15 . 15	PCC	Frequency	2507.5	2527.5	2547.5		
15 + 15	000	Channel	20975	21175	21375		
	SCC	Frequency	2522.5	2542.5	2562.5		
	DCC	Channel	20825	21051	21277		
15 : 10	PCC	Frequency	2507.5	2530.1	2552.7		
15 + 10	SCC	Channel	20945	21171	21397		
	300	Frequency	2519.5	2542.1	2564.7		

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LTE Band 41 Channel and Frequency List							
BW [MHz]	Channel	/Frequency(MHz)	Lowest	Middle	Highest		
	PCC	Channel	39750	40521	41292		
20 + 20	PCC	Frequency	2506.0	2583.1	2660.2		
20 + 20	SCC	Channel	39948	40719	41490		
	300	Frequency	2525.8	2602.9	2680.0		
	PCC	Channel	39750	40546	41341		
20 . 45	PCC	Frequency	2506.0	2585.6	2665.1		
20 + 15	SCC	Channel	39921	40717	41512		
		Frequency	2523.1	2602.7	2682.2		
	PCC	Channel	39728	40523	41319		
45 : 20		Frequency	2503.8	2593.3	2662.9		
15 + 20	SCC	Channel	39899	40694	41490		
		Frequency	2520.9	2600.4	2680.0		
	D00	Channel	39750	40571	41391		
20 + 10	PCC	Frequency	2506.0	2588.1	2670.1		
20 + 10	SCC	Channel	39894	40715	41535		
	SCC	Frequency	2520.4	2602.5	2684.5		
	DCC	Channel	39705	40526	41346		
10 + 20	PCC	Frequency	2501.5	2583.6	2665.6		
10 + 20	SCC	Channel	39849	40670	41490		
	SCC	Frequency	2515.9	2598.0	2680.0		

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LTE Band 41 Channel and Frequency List						
	500	Channel	39750	40595	41440	
00 5	PCC	Frequency	2506.0	2590.5	2675.0	
20 + 5	SCC	Channel	39867	40712	41557	
	SCC	Frequency	2517.7	2602.2	2686.7	
	PCC	Channel	39683	40528	41373	
5 + 20	PCC	Frequency	2499.3	2583.8	2668.3	
5 + 20	800	Channel	39800	40645	41490	
	SCC	Frequency	2511.0	2595.5	2680.0	
	PCC	Channel	39725	40545	41365	
15 + 15		Frequency	2503.5	2585.5	2667.5	
15 + 15	SCC	Channel	39875	40695	41515	
		Frequency	2518.5	2600.5	2682.5	
	PCC	Channel	39703	40549	41395	
10 + 15	PCC	Frequency	2501.3	2585.9	2670.5	
10 + 15	SCC	Channel	39823	40669	41515	
	300	Frequency	2513.3	2597.9	2682.5	
	PCC	Channel	39725	40571	41417	
15 + 10	1	Frequency	2503.5	2588.1	2672.7	
15 + 10	SCC	Channel	39845	40691	41537	
	300	Frequency	2515.5	2600.1	2684.7	

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LTE Band 66B Channel and Frequency List_CA						
BW [MHz]	Channel	/Frequency(MHz)	Lowest	Middle	Highest	
	PCC	Channel	131997	132398	132599	
5 + 5	PCC	Frequency	1712.5	1752.6	1772.7	
5+5	SCC	Channel	132045	133346	132647	
	SCC	Frequency	1717.3	1757.4	1777.5	
	PCC	Channel	132000	132375	132550	
5 <b>+</b> 10	PCC	Frequency	1712.8	1750.3	1767.8	
5 + 10	SCC	Channel	132072	133347	132622	
	SCC	Frequency	1720.0	1757.5	1775.0	
	PCC	Channel	132022	132397	132572	
40 . 5		Frequency	1715.0	1752.5	1770.0	
10 + 5	SCC	Channel	132094	133369	132644	
		Frequency	1722.2	1759.7	1777.2	
	PCC	Channel	132002	132353	132504	
5 + 15		Frequency	1713.0	1748.1	1763.2	
5 + 15	800	Channel	132095	133346	132597	
	SCC	Frequency	1722.3	1757.4	1772.5	
	PCC	Channel	132047	132398	132549	
15 + 5	PCC	Frequency	1717.5	1752.6	1767.7	
15 + 5	SCC	Channel	132140	133391	132642	
	SCC	Frequency	1726.8	1761.9	1777.0	
	PCC	Channel	132022	132373	135523	
10 . 10	PCC	Frequency	1715.0	1750.1	1765.1	
10 + 10	000	Channel	132121	133372	132622	
	SCC	Frequency	1724.9	1760.0	1775.0	

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LTE Band 66C Channel and Frequency List\_CA BW [MHz] Channel/Frequency(MHz) Lowest Middle **Highest** Channel 132025 132351 132477 **PCC** Frequency 1715.3 1747.9 1760.5 10 + 15Channel 132145 133371 132597 SCC 1727.3 1759.9 1772.5 Frequency Channel 132047 132373 132499 **PCC** 1762.7 Frequency 1717.5 1750.1 15 + 10Channel 132167 133393 132619 SCC 1774.7 Frequency 1729.5 1761.1 132428 Channel 132027 132328 **PCC** 1715.5 1755.6 Frequency 1745.6 10 + 20Channel 131171 133372 132572 SCC Frequency 1729.9 1760.0 1770.0 Channel 132072 132373 132473 **PCC** 1720.0 1760.1 Frequency 1750.1 20 + 10132617 Channel 132216 133417 SCC 1734.4 1764.5 1774.5 Frequency Channel 132047 132447 132347 **PCC** Frequency 1717.5 1747.5 1757.5 15 + 15Channel 132197 133397 132597 SCC Frequency 1732.5 1762.5 1772.5 Channel 132050 132325 132401 **PCC** Frequency 1717.8 1745.3 1752.9 15 + 20Channel 132221 133396 132572 SCC 1734.9 1762.4 1770.0 Frequency 132423 Channel 132072 132348 **PCC** Frequency 1720.0 1747.6 1755.1 20 + 15Channel 132594 132243 133419 SCC 1737.1 1764.7 1772.2 Frequency 132522 Channel 132072 132397 **PCC** 1765.0 Frequency 1720.0 1752.5 20 + 5Channel 132189 133414 132639 SCC 1731.7 1764.2 Frequency 1776.7

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LTE Band 66C Channel and Frequency List_CA						
	PCC	Channel	132005	132330	132455	
F . 20	PCC	Frequency	1713.3	1745.8	1758.3	
5 + 20	SCC	Channel	132122	132447	132572	
		Frequency	1725.0	1757.5	1770.0	
20 + 20	PCC	Channel	132072	132323	132374	
		Frequency	1720.0	1745.1	1750.2	
	SCC	Channel	132270	133421	132572	
		Frequency	1739.8	1764.9	1770.0	

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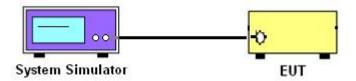
### 3 Conducted Test Items

### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

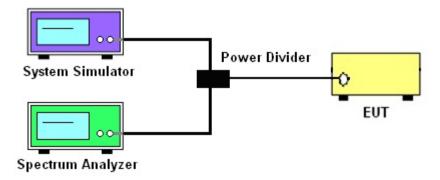
#### 3.1.1 Test Setup

### 3.1.2 Conducted Output Power

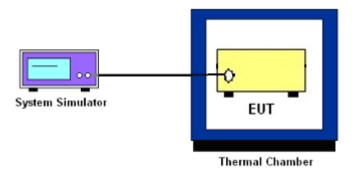


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# 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



#### 3.1.4 Frequency Stability



#### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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### 3.2 Conducted Output Power and ERP/EIRP

# 3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66 According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP - 2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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### 3.3 Peak-to-Average Ratio

#### 3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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#### 3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

- 1. The EUT was connected to spectrum and system simulator via a power divider.
- 2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

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### 3.4 Occupied Bandwidth

#### 3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
   The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 4. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 6. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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### 3.5 Conducted Band Edge

### 3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 - 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 +  $10\log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 - 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[Watts])$  dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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27.53(m)(4)

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

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#### 3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 5. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. Checked that all the results comply with the emission limit line.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The other 40 dB, and 55 dB have additionally applied same calculation above.

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### 3.6 Conducted Spurious Emission

### 3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

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### 3.7 Frequency Stability

### 3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

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24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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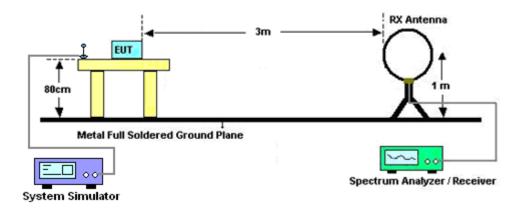
### 4 Radiated Test Items

### 4.1 Measuring Instruments

See list of measuring instruments of this test report.

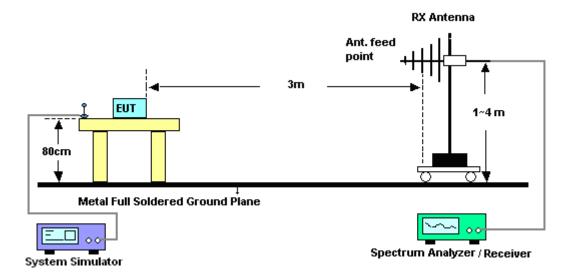
### 4.1.1 Test Setup

#### For radiated emissions below 30MHz



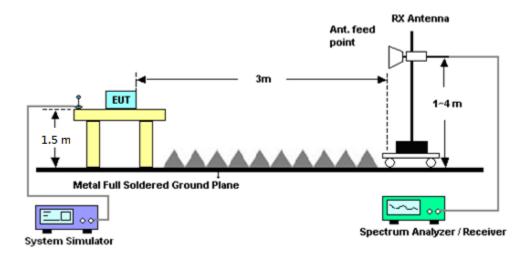
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#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



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### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

#### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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### 4.2 Radiated Spurious Emission Measurement

### 4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

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

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The limit line is derived from  $55 + 10\log(P)dB$  below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15

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# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8821C	6262002534 1	-	Oct. 24, 2019	May 13, 2020~ Jul. 06, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	May 13, 2020~ Jul. 06, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 02, 2019	May 13, 2020~ Jul. 06, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	May 13, 2020~ Jul. 06, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	May 13, 2020~ Jul. 06, 2020	Jan. 12, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	May 09, 2020~ Jun. 17, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	May 09, 2020~ Jun. 17, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Nov. 14, 2019	May 09, 2020~ Jun. 17, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	May 09, 2020~ Jun. 17, 2020	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz ~ 40GHz	Dec. 10, 2019	May 09, 2020~ Jun. 17, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917098 0	18GHz ~ 40GHz	Jan. 10, 2019	May 09, 2020~ Jun. 17, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	May 09, 2020~ Jun. 17, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA00101800- 30-10P	1601180002	1GHz~18GHz	Feb. 07, 2020	May 09, 2020~ Jun. 17, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 09, 2020~ Jun. 17, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Dec. 20, 2019	May 09, 2020~ Jun. 17, 2020	Dec. 19, 2020	Radiation (03CH12-HY)
Signal Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 12, 2020	May 09, 2020~ Jun. 17, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	May 09, 2020~ Jun. 17, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 07, 2019	May 09, 2020~ Jun. 17, 2020	Nov. 06, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Dec. 12, 2019	May 09, 2020~ Jun. 17, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	May 09, 2020~ Jun. 17, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 25, 2020	May 09, 2020~ Jun. 17, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 09, 2020~ Jun. 17, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 09, 2020~ Jun. 17, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 09, 2020~ Jun. 17, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 09, 2020~ Jun. 17, 2020	N/A	Radiation (03CH12-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	May 19, 2020~ Jun. 17, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	May 19, 2020~ Jun. 17, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 29, 2020	May 19, 2020~ Jun. 17, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jul. 02, 2019	May 19, 2020~ Jun. 17, 2020	Jul. 01, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	May 19, 2020~ Jun. 17, 2020	Sep. 18, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	May 19, 2020~ Jun. 17, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 28, 2019	May 19, 2020~ Jun. 17, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	May 19, 2020~ Jun. 17, 2020	Aug. 26, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 20, 2020	May 19, 2020~ Jun. 17, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 19, 2020~ Jun. 17, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 19, 2020~ Jun. 17, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 19, 2020~ Jun. 17, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	May 19, 2020~ Jun. 17, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 19, 2020~ Jun. 17, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	May 19, 2020~ Jun. 17, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	May 19, 2020~ Jun. 17, 2020	Feb. 21, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	May 19, 2020~ Jun. 17, 2020	Feb. 24, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Dec. 10, 2019	May 19, 2020~ Jun. 17, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917098 0	18GHz~40GHz	Jan. 10, 2020	May 19, 2020~ Jun. 17, 2020	Jan. 09, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN2	3GHz High Pass Filter	Jul. 14, 2019	May 19, 2020~ Jun. 17, 2020	Jul. 13, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0SS	SN3	1.2GHz High Pass Filter	Jul. 03, 2019	May 19, 2020~ Jun. 17, 2020	Jul. 02, 2020	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP190075	N/A	Apr. 23, 2020	May 19, 2020~ Jun. 17, 2020	Apr. 22, 2021	Radiation (03CH13-HY)

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## 6 Uncertainty of Evaluation

#### <03CH12-HY>

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.24
Confidence of 95% (U = 2Uc(y))	3.24

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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.62
Confidence of 95% (U = 2Uc(y))	3.02

### <u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

	_
Measuring Uncertainty for a Level of	4.06
Confidence of 95% (U = 2Uc(y))	4.00

#### <03CH13-HY>

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.21
Confidence of 95% (U = 2Uc(y))	3.21

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.24
Confidence of 95% (U = 2Uc(y))	3.24

#### <u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.99
Confidence of 95% (U = 2Uc(y))	3.99

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## Conducted Output Power(Average power)

**Appendix A. Test Results of Conducted Test** 

### <Primary Antenna>

LTE Band 2 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
20	1	0		24.42	24.35	24.37	
20	1	49		24.33	24.30	24.24	
20	1	99	QPSK	24.32	24.35	24.36	
20	50	0		23.41	23.38	23.37	
20	50	24		23.51	23.49	23.39	
20	50	50		23.49	23.48	23.49	
20	100	0		23.51	23.47	23.41	
20	1	0		23.68	23.69	23.72	
20	1	49		23.67	23.64	23.54	
20	1	99		23.64	23.64	23.65	
20	50	0	16-QAM	22.42	22.40	22.39	
20	50	24		22.52	22.50	22.42	
20	50	50		22.52	22.49	22.51	
20	100	0		22.49	22.48	22.39	
20	1	0		22.60	22.52	22.56	
20	1	49		22.54	22.50	21.66	
20	1	99		22.40	22.56	22.42	
20	50	0	64-QAM	21.45	21.42	20.98	
20	50	24		21.53	21.53	20.88	
20	50	50		21.44	21.50	21.23	
20	100	0		21.52	21.51	21.07	
15	1	0		24.34	24.35	24.36	
15	1	37		24.33	24.32	24.33	
15	1	74		24.38	24.36	24.41	
15	36	0	QPSK	23.46	23.37	23.36	
15	36	20		23.49	23.48	23.39	
15	36	39		23.47	23.48	23.49	
15	75	0		23.48	23.47	23.41	
15	1	0		23.60	23.64	23.63	
15	1	37		23.65	23.62	23.64	
15	1	74		23.70	23.68	23.65	
15	36	0	16-QAM	22.47	22.39	22.35	
15	36	20		22.48	22.49	22.40	
15	36	39		22.48	22.49	22.49	
15	75	0		22.49	22.49	22.38	
15	1	0		22.54	22.52	22.16	
15	1	37		22.61	22.57	21.79	
15	1	74	64-QAM	22.50	22.59	22.54	
15	36	0		21.50	21.41	20.76	
15	36	20		21.53	21.51	21.04	
15	36	39		21.56	21.52	21.41	
15	75	0		21.50	21.49	20.95	



		LTE	Band 2 Maxi	mum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.33	24.31	24.32
10	1	25		24.25	24.27	24.27
10	1	49		24.32	24.35	24.34
10	25	0	QPSK	23.44	23.36	23.33
10	25	12		23.51	23.51	23.40
10	25	25		23.52	23.50	23.49
10	50	0		23.51	23.50	23.41
10	1	0		23.71	23.64	23.65
10	1	25		23.71	23.69	23.69
10	1	49	_	23.73	23.72	23.73
10	25	0	16-QAM	22.46	22.39	22.35
10	25	12	_	22.52	22.51	22.41
10	25	25	-	22.47	22.50	22.51
10	50	0	-	22.50	22.49	22.40
10	1	0		22.61	22.52	21.90
10	1	25	-	22.59	22.62	22.41
10	1	49	-	22.58	22.63	22.63
10	25	0	64-QAM	21.49	21.41	20.99
10	25	12	_	21.54	21.52	21.35
10	25	25	-	21.54	21.53	21.44
10	50	0	-	21.54	21.52	21.12
5	1	0		24.25	24.25	24.28
5	1	12	_	24.36	24.37	24.32
5	1	24	_	24.35	24.39	24.38
5	12	0	QPSK	23.42	23.39	23.43
5	12	7	_	23.47	23.48	23.48
5	12	13	_	23.48	23.45	23.48
5	25	0		23.45	23.43	23.44
5	1	0		23.62	23.58	23.62
5	1	12	-	23.64	23.65	23.67
5	1	24	_	23.67	23.71	23.73
5	12	0	16-QAM	22.47	22.42	22.46
5	12	7		22.50	22.53	22.50
5	12	13		22.49	22.51	22.52
5	25	0		22.47	22.50	22.47
5	1	0		22.63	22.56	22.32
5	1	12		22.59	22.58	22.56
5	1	24		22.60	22.64	22.60
5	12	0	64-QAM	21.52	21.47	21.51
5	12	7		21.57	21.57	21.56
5	12	13		21.56	21.54	21.55
5	25	0		21.49	21.49	21.46



		LTE	Band 2 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.29	24.29	24.28
3	1	8		24.39	24.38	24.39
3	1	14		24.33	24.35	24.35
3	8	0	QPSK	23.41	23.47	23.42
3	8	4		23.45	23.49	23.45
3	8	7		23.43	23.43	23.45
3	15	0		23.44	23.42	23.46
3	1	0		23.64	23.63	23.63
3	1	8		23.69	23.71	23.70
3	1	14		23.68	23.71	23.67
3	8	0	16-QAM	22.50	22.50	22.47
3	8	4		22.54	22.54	22.53
3	8	7		22.54	22.52	22.54
3	15	0		22.50	22.49	22.45
3	1	0		22.54	22.58	22.57
3	1	8		22.62	22.65	22.66
3	1	14	64-QAM	22.58	22.64	22.60
3	8	0		21.49	21.49	21.50
3	8	4		21.56	21.57	21.53
3	8	7		21.50	21.53	21.52
3	15	0		21.48	21.48	21.50
1.4	1	0		24.28	24.26	24.25
1.4	1	3		24.31	24.31	24.31
1.4	1	5		24.26	24.26	24.27
1.4	3	0	QPSK	24.29	24.31	24.28
1.4	3	1		24.33	24.35	24.33
1.4	3	3		24.28	24.32	24.29
1.4	6	0		23.37	23.38	23.38
1.4	1	0		23.56	23.56	23.56
1.4	1	3		23.63	23.69	23.65
1.4	1	5		23.58	23.59	23.57
1.4	3	0	16-QAM	23.36	23.39	23.34
1.4	3	1		23.42	23.43	23.40
1.4	3	3		23.34	23.38	23.32
1.4	6	0		22.45	22.46	22.45
1.4	1	0		22.51	22.52	22.48
1.4	1	3		22.56	22.59	22.59
1.4	1	5	64-QAM	22.50	22.53	22.49
1.4	3	0		22.48	22.48	22.48
1.4	3	1		22.52	22.54	22.52
1.4	3	3		22.50	22.50	22.46
1.4	6	0		21.39	21.40	21.39

		LTE	Band 25 Max	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.48	24.39	24.25
20	1	49		24.31	24.32	24.26
20	1	99		24.35	24.32	24.04
20	50	0	QPSK	23.46	23.45	23.35
20	50	24		23.54	23.52	23.39
20	50	50		23.49	23.50	23.44
20	100	0		23.55	23.52	23.38
20	1	0		23.70	23.72	23.63
20	1	49		23.71	23.70	23.59
20	1	99		23.64	23.73	23.41
20	50	0	16-QAM	22.47	22.47	22.38
20	50	24		22.55	22.54	22.38
20	50	50		22.51	22.52	22.46
20	100	0		22.52	22.53	22.36
20	1	0		22.56	22.54	22.24
20	1	49		22.60	22.52	22.06
20	1	99		22.17	22.53	21.71
20	50	0	64-QAM	21.51	21.48	20.89
20	50	24		21.59	21.57	21.22
20	50	50		21.37	21.54	21.24
20	100	0		21.53	21.57	20.88
15	1	0		24.39	24.41	24.28
15	1	37		24.36	24.37	24.28
15	1	74		24.36	24.41	24.14
15	36	0	QPSK	23.55	23.49	23.34
15	36	20		23.54	23.55	23.46
15	36	39		23.47	23.49	23.43
15	75	0		23.52	23.52	23.43
15	1	0		23.64	23.70	23.60
15	1	37		23.67	23.65	23.58
15	1	74		23.67	23.70	23.51
15	36	0	16-QAM	22.56	22.47	22.38
15	36	20		22.53	22.55	22.44
15	36	39		22.48	22.51	22.43
15	75	0		22.52	22.53	22.46
15	1	0		22.56	22.57	21.90
15	1	37		22.59	22.64	22.50
15	1	74	64-QAM	22.48	22.62	21.72
15	36	0		21.58	21.51	21.22
15	36	20		21.61	21.57	21.48
15	36	39		21.55	21.55	21.22
15	75	0		21.55	21.54	21.02



	LTE Band 25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
10	1	0		24.35	24.37	24.23			
10	1	25		24.31	24.32	24.27			
10	1	49		24.40	24.39	24.06			
10	25	0	QPSK	23.44	23.46	23.31			
10	25	12		23.49	23.48	23.43			
10	25	25		23.49	23.49	23.47			
10	50	0		23.49	23.49	23.35			
10	1	0		23.72	23.74	23.61			
10	1	25		23.73	23.73	23.67			
10	1	49		23.76	23.78	23.51			
10	25	0	16-QAM	22.47	22.49	22.34			
10	25	12		22.52	22.50	22.42			
10	25	25		22.44	22.51	22.47			
10	50	0		22.49	22.51	22.32			
10	1	0		22.65	22.56	22.44			
10	1	25		22.65	22.65	22.56			
10	1	49		22.68	22.66	21.72			
10	25	0	64-QAM	21.48	21.51	21.34			
10	25	12		21.55	21.55	21.47			
10	25	25		21.51	21.53	20.99			
10	50	0		21.49	21.54	21.06			
5	1	0		24.38	24.31	24.25			
5	1	12		24.39	24.39	24.35			
5	1	24		24.41	24.41	23.96			
5	12	0	QPSK	23.42	23.44	23.32			
5	12	7		23.46	23.51	23.42			
5	12	13		23.52	23.54	23.20			
5	25	0		23.47	23.45	23.40			
5	1	0		23.72	23.65	23.64			
5	1	12		23.68	23.72	23.58			
5	1	24		23.71	23.73	23.37			
5	12	0	16-QAM	22.45	22.46	22.33			
5	12	7		22.51	22.52	22.43			
5	12	13		22.52	22.53	22.40			
5	25	0		22.50	22.51	22.37			
5	1	0		22.62	22.57	22.36			
5	1	12		22.56	22.59	22.01			
5	1	24		22.62	22.63	21.70			
5	12	0	64-QAM	21.49	21.51	21.29			
5	12	7		21.57	21.56	21.02			
5	12	13		21.57	21.62	20.64			
5	25	0		21.49	21.52	20.85			

	LTE Band 25 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
3	1	0		24.31	24.26	24.27			
3	1	8		24.47	24.45	24.21			
3	1	14		24.46	24.45	23.91			
3	8	0	QPSK	23.41	23.45	23.34			
3	8	4		23.48	23.52	23.33			
3	8	7		23.46	23.54	23.14			
3	15	0		23.47	23.46	23.27			
3	1	0		23.64	23.61	23.53			
3	1	8		23.77	23.82	23.46			
3	1	14		23.76	23.83	23.21			
3	8	0	16-QAM	22.48	22.49	22.39			
3	8	4		22.55	22.59	22.47			
3	8	7		22.56	22.55	22.34			
3	15	0		22.50	22.53	22.41			
3	1	0		22.55	22.51	21.93			
3	1	8		22.68	22.71	22.68			
3	1	14		22.66	22.70	22.36			
3	8	0	64-QAM	21.49	21.52	20.81			
3	8	4		21.57	21.61	20.71			
3	8	7		21.56	21.59	20.56			
3	15	0		21.52	21.52	20.70			
1.4	1	0		24.30	24.31	24.07			
1.4	1	3		24.40	24.43	24.00			
1.4	1	5		24.37	24.36	23.87			
1.4	3	0	QPSK	24.35	24.37	24.02			
1.4	3	1		24.38	24.40	24.03			
1.4	3	3		24.38	24.37	23.89			
1.4	6	0		23.42	23.42	23.10			
1.4	1	0		23.62	23.63	23.37			
1.4	1	3		23.71	23.73	23.31			
1.4	1	5		23.69	23.70	23.21			
1.4	3	0	16-QAM	23.41	23.43	23.20			
1.4	3	1		23.47	23.50	23.20			
1.4	3	3		23.44	23.49	23.09			
1.4	6	0		22.47	22.51	22.27			
1.4	1	0		22.53	22.57	22.47			
1.4	1	3		22.61	22.68	22.43			
1.4	1	5	64-QAM	22.57	22.61	22.31			
1.4	3	0		22.50	22.55	22.46			
1.4	3	1		22.57	22.61	22.59			
1.4	3	3		22.57	22.60	22.39			
1.4	6	0		21.42	21.43	21.45			



		LTE	Band 4 Max	kimum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.85	24.88	24.84
20	1	49		24.70	24.68	24.64
20	1	99		24.73	24.67	24.66
20	50	0	QPSK	23.89	23.88	23.86
20	50	24		23.91	23.90	23.79
20	50	50		23.86	23.82	23.80
20	100	0		23.86	23.95	23.78
20	1	0		24.17	24.19	24.16
20	1	49		24.03	24.03	24.02
20	1	99		24.08	23.99	23.94
20	50	0	16-QAM	22.88	22.89	22.87
20	50	24		22.92	22.90	22.80
20	50	50		22.86	22.83	22.78
20	100	0		22.89	22.94	22.76
20	1	0		22.84	23.06	22.68
20	1	49		22.93	22.88	22.85
20	1	99		22.97	22.56	22.94
20	50	0	64-QAM	21.89	21.91	21.60
20	50	24		21.93	21.94	21.80
20	50	50		21.87	21.62	21.82
20	100	0		21.95	21.91	21.81
15	1	0		24.84	24.87	24.84
15	1	37		24.69	24.66	24.67
15	1	74		24.75	24.70	24.66
15	36	0	QPSK	23.92	23.86	23.82
15	36	20		23.89	23.89	23.78
15	36	39		23.85	23.86	23.81
15	75	0		23.90	23.92	23.78
15	1	0		24.14	24.16	24.15
15	1	37		23.98	24.04	24.01
15	1	74		24.06	24.00	23.93
15	36	0	16-QAM	22.93	22.88	22.85
15	36	20		22.88	22.87	22.78
15	36	39		22.85	22.83	22.80
15	75	0		22.90	22.92	22.79
15	1	0		22.87	23.04	22.82
15	1	37		22.98	22.95	22.96
15	1	74		22.95	22.70	22.88
15	36	0	64-QAM	21.93	21.94	21.86
15	36	20		21.90	21.96	21.80
15	36	39		21.88	21.61	21.82
15	75	0		21.90	21.92	21.79



		LTE	Band 4 Maxi	mum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.77	24.77	24.71
10	1	25		24.71	24.71	24.66
10	1	49		24.77	24.75	24.70
10	25	0	QPSK	23.82	23.82	23.74
10	25	12		23.88	23.91	23.77
10	25	25		23.88	23.91	23.85
10	50	0		23.87	23.90	23.77
10	1	0		24.11	24.13	24.10
10	1	25		24.10	24.14	24.06
10	1	49	-	24.13	24.09	24.11
10	25	0	16-QAM	22.85	22.82	22.77
10	25	12	-	22.88	22.89	22.78
10	25	25	-	22.90	22.90	22.86
10	50	0	-	22.87	22.89	22.78
10	1	0		22.73	23.00	22.94
10	1	25	-	23.03	23.04	22.98
10	1	49	-	23.05	22.66	22.95
10	25	0	64-QAM	21.88	21.80	21.78
10	25	12	-	21.91	21.97	21.81
10	25	25	-	21.90	21.66	21.87
10	50	0	-	21.93	21.90	21.84
5	1	0		24.77	24.68	24.72
5	1	12	-	24.82	24.86	24.73
5	1	24	-	24.82	24.80	24.73
5	12	0	QPSK	23.83	23.83	23.78
5	12	7	-	23.88	23.88	23.83
5	12	13	-	23.89	23.87	23.80
5	25	0		23.85	23.88	23.78
5	1	0		24.08	24.07	24.06
5	1	12	-	24.14	24.12	24.07
5	1	24	-	24.13	24.15	24.05
5	12	0	16-QAM	22.89	22.83	22.83
5	12	7		22.93	22.91	22.83
5	12	13		22.92	22.90	22.84
5	25	0		22.88	22.89	22.83
5	1	0		22.75	22.99	23.04
5	1	12		23.01	23.05	22.98
5	1	24		23.12	22.67	22.97
5	12	0	64-QAM	21.75	21.85	21.87
5	12	7		21.96	21.97	21.89
5	12	13		21.93	21.76	21.88
5	25	0		21.90	21.93	21.82



	LTE Band 4 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
3	1	0		24.77	24.71	24.70			
3	1	8		24.85	24.87	24.79			
3	1	14		24.83	24.82	24.71			
3	8	0	QPSK	23.87	23.78	23.81			
3	8	4		23.89	23.88	23.83			
3	8	7		23.90	23.87	23.79			
3	15	0		23.84	23.87	23.81			
3	1	0		24.12	24.04	24.03			
3	1	8		24.16	24.16	24.10			
3	1	14		24.12	24.12	24.07			
3	8	0	16-QAM	22.90	22.88	22.85			
3	8	4		22.95	22.98	22.86			
3	8	7		22.92	22.96	22.84			
3	15	0		22.88	22.88	22.83			
3	1	0		22.77	23.01	22.96			
3	1	8		22.97	23.14	23.06			
3	1	14		23.04	22.89	23.01			
3	8	0	64-QAM	21.71	21.84	21.86			
3	8	4		21.86	21.94	21.91			
3	8	7		21.92	21.92	21.87			
3	15	0		21.82	21.91	21.84			
1.4	1	0		24.70	24.68	24.60			
1.4	1	3		24.79	24.79	24.70			
1.4	1	5		24.75	24.72	24.61			
1.4	3	0	QPSK	24.73	24.72	24.66			
1.4	3	1		24.77	24.79	24.70			
1.4	3	3		24.72	24.74	24.67			
1.4	6	0		23.81	23.77	23.73			
1.4	1	0		24.02	24.05	23.94			
1.4	1	3		24.15	24.13	24.03			
1.4	1	5		24.08	24.05	23.99			
1.4	3	0	16-QAM	23.91	23.82	23.77			
1.4	3	1		23.90	23.89	23.82			
1.4	3	3		23.82	23.82	23.74			
1.4	6	0		22.86	22.87	22.77			
1.4	1	0		22.67	23.00	22.90			
1.4	1	3		22.77	23.06	22.97			
1.4	1	5		22.74	22.97	22.90			
1.4	3	0	64-QAM	22.72	22.94	22.87			
1.4	3	1		22.85	22.97	22.95			
1.4	3	3		22.78	22.93	22.89			
1.4	6	0		21.63	21.80	21.73			

		LTE	Band 5 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.41	24.40	24.44
10	1	25		24.38	24.43	24.44
10	1	49		24.42	24.55	24.35
10	25	0	QPSK	23.48	23.56	23.53
10	25	12		23.56	23.55	23.56
10	25	25		23.52	23.59	23.53
10	50	0		23.59	23.53	23.57
10	1	0		23.82	23.81	23.85
10	1	25		23.76	23.82	23.83
10	1	49		23.82	23.89	23.77
10	25	0	16-QAM	22.45	22.58	22.54
10	25	12		22.58	22.57	22.54
10	25	25		22.54	22.58	22.62
10	50	0		22.57	22.55	22.54
10	1	0		22.65	22.63	22.63
10	1	25		22.70	22.73	22.76
10	1	49		22.73	22.41	21.71
10	25	0	64-QAM	21.51	21.58	21.58
10	25	12		21.61	21.62	21.60
10	25	25		21.58	21.60	20.89
10	50	0		21.58	21.59	21.25
5	1	0		24.51	24.52	24.54
5	1	12		24.48	24.49	24.28
5	1	24		24.40	24.49	24.24
5	12	0	QPSK	23.58	23.61	23.59
5	12	7		23.52	23.62	23.34
5	12	13		23.51	23.57	23.18
5	25	0		23.52	23.55	23.51
5	1	0		23.85	23.82	23.82
5	1	12		23.74	23.82	23.56
5	1	24		23.75	23.83	23.47
5	12	0	16-QAM	22.63	22.57	22.58
5	12	7		22.58	22.63	22.50
5	12	13		22.51	22.58	22.28
5	25	0		22.56	22.58	22.53
5	1	0		22.73	22.77	22.54
5	1	12		22.67	22.75	21.76
5	1	24		22.72	22.60	21.72
5	12	0	64-QAM	21.65	21.66	21.27
5	12	7		21.60	21.67	20.70
5	12	13		21.56	21.62	20.71
5	25	0		21.57	21.60	20.76

		LTE	Band 5 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.49	24.48	24.23
3	1	8		24.49	24.54	24.02
3	1	14		24.37	24.47	24.11
3	8	0	QPSK	23.57	23.57	23.09
3	8	4		23.54	23.61	23.10
3	8	7		23.52	23.59	23.20
3	15	0		23.55	23.52	23.12
3	1	0		23.83	23.78	23.57
3	1	8		23.84	23.87	23.36
3	1	14		23.69	23.79	23.45
3	8	0	16-QAM	22.63	22.62	22.29
3	8	4		22.62	22.72	22.20
3	8	7		22.59	22.66	22.26
3	15	0		22.59	22.59	22.22
3	1	0		22.67	22.74	21.70
3	1	8		22.75	22.77	21.71
3	1	14		22.70	22.52	21.70
3	8	0	64-QAM	21.64	21.62	20.70
3	8	4		21.64	21.65	20.70
3	8	7		21.55	21.64	20.72
3	15	0		21.59	21.62	20.73
1.4	1	0		24.37	24.39	23.99
1.4	1	3		24.41	24.47	24.17
1.4	1	5		24.32	24.38	24.10
1.4	3	0	QPSK	24.40	24.41	24.09
1.4	3	1		24.44	24.44	24.15
1.4	3	3		24.39	24.46	24.35
1.4	6	0		23.49	23.54	23.21
1.4	1	0		23.68	23.74	23.32
1.4	1	3		23.72	23.82	23.53
1.4	1	5		23.66	23.76	23.55
1.4	3	0	16-QAM	23.52	23.50	23.10
1.4	3	1		23.56	23.55	23.27
1.4	3	3		23.46	23.52	23.44
1.4	6	0		22.54	22.61	22.31
1.4	1	0		22.62	22.64	21.70
1.4	1	3		22.70	22.73	21.71
1.4	1	5		22.61	22.63	21.70
1.4	3	0	64-QAM	22.62	22.61	21.72
1.4	3	1		22.64	22.65	21.74
1.4	3	3		22.58	22.63	21.73
1.4	6	0		21.49	21.54	20.71



		LTE	Band 7 Max	kimum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.80	24.77	24.61
20	1	49		24.86	24.80	24.60
20	1	99		24.98	24.85	24.60
20	50	0	QPSK	24.01	23.87	23.77
20	50	24		24.04	23.88	23.79
20	50	50		24.03	23.91	23.77
20	100	0		24.04	23.88	23.78
20	1	0		24.13	24.07	23.98
20	1	49		24.21	24.12	23.97
20	1	99		24.29	24.24	23.98
20	50	0	16-QAM	23.00	22.87	22.79
20	50	24		23.03	22.90	22.80
20	50	50		23.05	22.93	22.78
20	100	0		23.01	22.86	22.77
20	1	0		22.96	22.93	22.87
20	1	49		23.07	23.04	22.32
20	1	99		23.12	23.04	22.71
20	50	0	64-QAM	22.02	21.89	21.59
20	50	24		22.07	21.92	21.53
20	50	50		22.09	21.93	21.73
20	100	0		22.05	21.92	21.62
15	1	0		24.83	24.76	24.65
15	1	37		24.87	24.79	24.59
15	1	74		24.97	24.87	24.68
15	36	0	QPSK	23.95	23.84	23.77
15	36	20		24.04	23.90	23.78
15	36	39		24.06	23.91	23.76
15	75	0		24.03	23.89	23.75
15	1	0		24.16	24.11	23.96
15	1	37		24.20	24.19	23.93
15	1	74		24.28	24.22	23.98
15	36	0	16-QAM	22.92	22.84	22.75
15	36	20		23.04	22.88	22.77
15	36	39		23.03	22.91	22.74
15	75	0		23.03	22.91	22.76
15	1	0		23.05	22.95	22.86
15	1	37		23.11	23.07	22.39
15	1	74		23.18	23.03	22.87
15	36	0	64-QAM	21.96	21.89	21.46
15	36	20		22.07	21.93	21.62
15	36	39		22.09	21.98	21.81
15	75	0		22.05	21.89	21.59



		LTE	Band 7 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.79	24.70	24.53
10	1	25		24.77	24.71	24.50
10	1	49		24.86	24.77	24.53
10	25	0	QPSK	23.94	23.82	23.66
10	25	12		24.00	23.86	23.71
10	25	25		23.99	23.86	23.69
10	50	0		23.98	23.85	23.68
10	1	0		24.17	24.09	23.89
10	1	25		24.15	24.11	23.88
10	1	49		24.24	24.17	23.95
10	25	0	16-QAM	22.96	22.79	22.64
10	25	12		23.02	22.85	22.68
10	25	25		22.98	22.84	22.67
10	50	0		22.98	22.84	22.68
10	1	0		23.07	22.98	22.61
10	1	25		23.10	23.06	22.80
10	1	49		23.15	23.01	22.82
10	25	0	64-QAM	21.99	21.85	21.58
10	25	12		22.03	21.90	21.74
10	25	25		22.05	21.89	21.70
10	50	0		22.01	21.87	21.64
5	1	0		24.85	24.72	24.54
5	1	12		24.89	24.81	24.58
5	1	24		24.87	24.82	24.56
5	12	0	QPSK	23.96	23.85	23.64
5	12	7		23.97	23.92	23.64
5	12	13		23.99	23.96	23.65
5	25	0		23.97	23.85	23.66
5	1	0		24.17	24.05	23.85
5	1	12		24.19	24.10	23.86
5	1	24		24.23	24.15	23.91
5	12	0	16-QAM	23.02	22.90	22.70
5	12	7		23.01	22.91	22.71
5	12	13		23.04	22.96	22.67
5	25	0		23.00	22.88	22.67
5	1	0		23.12	23.03	22.77
5	1	12		23.13	23.03	22.78
5	1	24		23.17	23.09	22.81
5	12	0	64-QAM	22.06	21.90	21.75
5	12	7		22.05	21.98	21.73
5	12	13		22.05	21.98	21.73
5	25	0		22.00	21.89	21.68

		LTE	Band 12 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.72	24.52	24.58
10	1	25		24.54	24.54	24.54
10	1	49		24.66	24.60	24.55
10	25	0	QPSK	23.67	23.66	23.64
10	25	12		23.75	23.69	23.73
10	25	25		23.73	23.72	23.71
10	50	0		23.76	23.65	23.73
10	1	0		23.97	23.90	23.96
10	1	25		23.96	23.95	23.92
10	1	49		24.02	23.95	23.93
10	25	0	16-QAM	22.67	22.68	22.67
10	25	12		22.76	22.67	22.73
10	25	25		22.69	22.69	22.70
10	50	0		22.76	22.67	22.72
10	1	0		22.79	22.73	22.81
10	1	25		22.86	22.84	22.57
10	1	49		22.94	22.87	22.87
10	25	0	64-QAM	21.72	21.70	21.58
10	25	12		21.80	21.73	21.75
10	25	25		21.75	21.75	21.73
10	50	0		21.78	21.70	21.76
5	1	0		24.61	24.59	24.54
5	1	12		24.62	24.67	24.59
5	1	24		24.61	24.61	24.56
5	12	0	QPSK	23.73	23.70	23.65
5	12	7		23.73	23.67	23.67
5	12	13		23.67	23.67	23.64
5	25	0		23.71	23.66	23.59
5	1	0		23.96	23.94	23.86
5	1	12		23.93	23.92	23.89
5	1	24		23.94	23.97	23.90
5	12	0	16-QAM	22.76	22.74	22.68
5	12	7		22.76	22.69	22.72
5	12	13		22.71	22.71	22.65
5	25	0		22.74	22.67	22.65
5	1	0		22.74	22.61	22.81
5	1	12		22.84	22.84	22.81
5	1	24		22.76	22.88	22.80
5	12	0	64-QAM	21.80	21.77	21.72
5	12	7		21.76	21.73	21.76
5	12	13		21.77	21.76	21.70
5	25	0		21.74	21.72	21.66

		LTE	Band 12 Ma	ıximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.71	24.62	24.60
3	1	8		24.66	24.70	24.64
3	1	14		24.62	24.62	24.57
3	8	0	QPSK	23.74	23.65	23.62
3	8	4		23.72	23.72	23.67
3	8	7		23.70	23.70	23.63
3	15	0		23.73	23.67	23.61
3	1	0		24.04	23.94	23.90
3	1	8		23.97	24.01	23.96
3	1	14		23.93	23.97	23.86
3	8	0	16-QAM	22.80	22.74	22.67
3	8	4		22.80	22.80	22.71
3	8	7		22.75	22.73	22.69
3	15	0		22.76	22.67	22.62
3	1	0		22.82	22.76	22.81
3	1	8		22.96	22.93	22.87
3	1	14		22.88	22.88	22.77
3	8	0	64-QAM	21.80	21.75	21.69
3	8	4		21.80	21.83	21.75
3	8	7		21.73	21.74	21.69
3	15	0		21.77	21.69	21.62
1.4	1	0		24.60	24.53	24.49
1.4	1	3		24.60	24.60	24.53
1.4	1	5		24.52	24.52	24.43
1.4	3	0	QPSK	24.62	24.51	24.50
1.4	3	1		24.67	24.55	24.54
1.4	3	3		24.58	24.57	24.47
1.4	6	0		23.67	23.59	23.54
1.4	1	0		23.92	23.85	23.83
1.4	1	3		23.95	23.93	23.88
1.4	1	5		23.86	23.90	23.76
1.4	3	0	16-QAM	23.68	23.62	23.59
1.4	3	1		23.74	23.64	23.63
1.4	3	3		23.65	23.61	23.55
1.4	6	0		22.72	22.65	22.62
1.4	1	0		22.82	22.78	22.75
1.4	1	3		22.88	22.84	22.78
1.4	1	5		22.78	22.77	22.70
1.4	3	0	64-QAM	22.79	22.74	22.74
1.4	3	1		22.83	22.77	22.73
1.4	3	3		22.76	22.76	22.67
1.4	6	0		21.67	21.60	21.59

LTE Band 13 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
10	1	0			23.87			
10	1	25			23.85	1		
10	1	49			23.99	-		
10	25	0	QPSK		22.99	1		
10	25	12			23.00	7		
10	25	25			22.99	1		
10	50	0			23.06	1		
10	1	0			23.19	1		
10	1	25			23.20	1		
10	1	49			23.18	1		
10	25	0	16-QAM	-	21.95	] -		
10	25	12			22.01	1		
10	25	25			21.98	1		
10	50	0			21.97	1		
10	1	0			22.04	1		
10	1	25			22.13	1		
10	1	49			22.10	1		
10	25	0	64-QAM		21.01	1		
10	25	12			21.06	1		
10	25	25			21.02	1		
10	50	0			21.01	1		
5	1	0		23.78	23.84	23.88		
5	1	12		23.88	23.90	23.85		
5	1	24		23.88	23.86	23.94		
5	12	0	QPSK	22.94	22.96	22.95		
5	12	7		22.99	22.95	22.90		
5	12	13		23.00	23.01	22.95		
5	25	0		22.99	22.97	22.92		
5	1	0		23.08	23.13	23.15		
5	1	12		23.15	23.15	23.11		
5	1	24		23.22	23.16	23.09		
5	12	0	16-QAM	22.02	21.99	21.96		
5	12	7		22.05	21.97	21.96		
5	12	13		22.02	22.02	22.00		
5	25	0		22.05	21.97	21.96		
5	1	0		22.00	22.13	22.04		
5	1	12		22.13	22.13	22.11		
5	1	24		22.13	22.13	22.03		
5	12	0	64-QAM	21.10	21.04	21.04		
5	12	7		21.07	21.03	20.96		
5	12	13		21.04	21.05	21.00		
5	25	0		21.04	21.03	20.94		



LTE Band 17 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.61	24.54	24.55	
10	1	25		24.60	24.59	24.56	
10	1	49		24.60	24.70	24.58	
10	25	0	QPSK	23.62	23.62	23.61	
10	25	12		23.76	23.66	23.66	
10	25	25		23.75	23.75	23.74	
10	50	0		23.75	23.66	23.64	
10	1	0		23.95	23.94	23.91	
10	1	25		23.98	23.99	23.99	
10	1	49		23.99	23.99	23.97	
10	25	0	16-QAM	22.64	22.61	22.63	
10	25	12		22.76	22.70	22.67	
10	25	25		22.72	22.75	22.71	
10	50	0		22.73	22.66	22.65	
10	1	0		22.86	22.80	22.81	
10	1	25		22.91	22.90	22.74	
10	1	49		22.90	22.89	22.81	
10	25	0	64-QAM	21.66	21.67	21.66	
10	25	12		21.80	21.74	21.72	
10	25	25		21.79	21.78	21.75	
10	50	0		21.78	21.71	21.69	
5	1	0		24.54	24.58	24.56	
5	1	12		24.64	24.69	24.64	
5	1	24		24.67	24.67	24.64	
5	12	0	QPSK	23.67	23.67	23.64	
5	12	7		23.71	23.73	23.71	
5	12	13		23.74	23.74	23.69	
5	25	0		23.74	23.69	23.67	
5	1	0		23.90	23.89	23.87	
5	1	12		23.94	23.97	23.90	
5	1	24		23.98	23.99	23.93	
5	12	0	16-QAM	22.69	22.69	22.69	
5	12	7		22.72	22.71	22.70	
5	12	13		22.76	22.74	22.68	
5	25	0		22.73	22.71	22.72	
5	1	0		22.67	22.59	22.83	
5	1	12		22.86	22.77	22.82	
5	1	24	64-QAM	22.88	22.64	22.82	
5	12	0		21.74	21.71	21.70	
5	12	7		21.78	21.76	21.76	
5	12	13		21.78	21.82	21.74	
5	25	0		21.74	21.70	21.72	



		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		24.41	24.33	24.36
15	1	37		24.28	24.36	24.35
15	1	74		24.37	24.59	24.29
15	36	0	QPSK	23.45	23.46	23.48
15	36	20		23.52	23.46	23.44
15	36	39		23.45	23.50	23.44
15	75	0		23.52	23.46	23.44
15	1	0		23.71	23.68	23.71
15	1	37		23.63	23.69	23.69
15	1	74		23.70	23.72	23.62
15	36	0	16-QAM	22.47	22.51	22.51
15	36	20		22.51	22.46	22.45
15	36	39		22.47	22.52	22.47
15	75	0		22.53	22.49	22.50
15	1	0		22.58	22.51	22.50
15	1	37		22.54	22.63	22.58
15	1	74		22.58	22.59	21.79
15	36	0	64-QAM	21.51	21.53	21.54
15	36	20		21.55	21.50	21.50
15	36	39		21.50	21.61	21.59
15	75	0		21.54	21.49	21.50
10	1	0		24.49	24.42	24.48
10	1	25		24.35	24.38	24.40
10	1	49		24.42	24.43	24.37
10	25	0	QPSK	23.57	23.48	23.51
10	25	12		23.57	23.50	23.53
10	25	25		23.48	23.53	23.54
10	50	0		23.54	23.49	23.49
10	1	0		23.88	23.77	23.88
10	1	25		23.75	23.81	23.80
10	1	49		23.80	23.79	23.75
10	25	0	16-QAM	22.56	22.49	22.51
10	25	12		22.56	22.50	22.51
10	25	25		22.45	22.54	22.47
10	50	0		22.53	22.46	22.47
10	1	0		22.81	22.66	22.72
10	1	25		22.70	22.73	22.75
10	1	49	64-QAM	22.73	22.74	22.16
10	25	0		21.61	21.56	21.55
10	25	12		21.61	21.55	21.58
10	25	25		21.53	21.56	21.40
10	50	0		21.58	21.52	21.52

LTE Band 26 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
5	1	0		24.58	24.40	24.49	
5	1	12		24.54	24.46	24.46	
5	1	24	opor .	24.39	24.49	24.40	
5	12	0	QPSK	23.62	23.52	23.56	
5	12	7		23.62	23.58	23.52	
5	12	13		23.53	23.53	23.43	
5	25	0		23.59	23.49	23.50	
5	1	0		23.92	23.77	23.81	
5	1	12		23.80	23.76	23.69	
5	1	24		23.73	23.83	23.69	
5	12	0	16-QAM	22.65	22.55	22.52	
5	12	7		22.59	22.61	22.52	
5	12	13		22.53	22.50	22.45	
5	25	0		22.58	22.51	22.54	
5	1	0		22.82	22.72	22.70	
5	1	12		22.71	22.66	22.03	
5	1	24		22.64	22.67	21.90	
5	12	0	64-QAM	21.71	21.62	21.61	
5	12	7		21.70	21.64	21.03	
5	12	13		21.61	21.61	20.72	
5	25	0		21.62	21.52	21.16	
3	1	0		24.56	24.45	24.47	
3	1	8		24.58	24.54	24.39	
3	1	14	QPSK	24.46	24.51	24.41	
3	8	0		23.63	23.52	23.41	
3	8	4		23.65	23.60	23.40	
3	8	7		23.57	23.50	23.44	
3	15	0		23.57	23.51	23.43	
3	1	0		23.92	23.76	23.78	
3	1	8		23.92	23.83	23.59	
3	1	14		23.77	23.84	23.70	
3	8	0	16-QAM	22.69	22.61	22.55	
3	8	4		22.66	22.64	22.51	
3	8	7		22.60	22.58	22.49	
3	15	0		22.64	22.53	22.49	
3	1	0		22.78	22.67	22.05	
3	1	8		22.79	22.75	21.73	
3	1	14	64-QAM	22.66	22.69	21.83	
3	8	0		21.72	21.58	20.80	
3	8	4		21.72	21.68	20.67	
3	8	7		21.63	21.59	20.74	
3	15	0		21.63	21.55	20.78	

LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
1.4	1	0		24.48	24.36	24.32		
1.4	1	3		24.52	24.47	24.34		
1.4	1	5		24.44	24.38	24.24		
1.4	3	0	QPSK	24.50	24.39	24.33		
1.4	3	1		24.51	24.40	24.37		
1.4	3	3		24.47	24.41	24.35		
1.4	6	0		23.54	23.48	23.37		
1.4	1	0		23.87	23.69	23.60		
1.4	1	3		23.87	23.77	23.68		
1.4	1	5		23.79	23.71	23.60		
1.4	3	0	16-QAM	23.69	23.45	23.37		
1.4	3	1		23.71	23.51	23.45		
1.4	3	3		23.66	23.47	23.35		
1.4	6	0		22.61	22.57	22.47		
1.4	1	0		22.84	22.58	21.71		
1.4	1	3		22.82	22.68	21.82		
1.4	1	5		22.78	22.59	21.87		
1.4	3	0	64-QAM	22.73	22.57	21.72		
1.4	3	1		22.74	22.64	21.75		
1.4	3	3		22.69	22.60	21.88		
1.4	6	0		21.59	21.49	20.73		



LTE Band 38 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
20	1	0		24.64	24.60	24.60	
20	1	49		24.60	24.57	24.55	
20	1	99		24.57	24.56	24.56	
20	50	0	QPSK	23.78	23.69	23.68	
20	50	24		23.75	23.74	23.77	
20	50	50		23.75	23.73	23.70	
20	100	0		23.79	23.76	23.64	
20	1	0		23.72	23.70	23.68	
20	1	49		23.68	23.63	23.64	
20	1	99		23.68	23.65	23.65	
20	50	0	16-QAM	22.82	22.71	22.72	
20	50	24		22.80	22.78	22.78	
20	50	50		22.77	22.76	22.76	
20	100	0		22.79	22.77	22.67	
20	1	0		22.45	22.43	22.39	
20	1	49		22.41	22.38	22.37	
20	1	99		22.40	22.40	22.36	
20	50	0	64-QAM	21.83	21.74	21.72	
20	50	24		21.82	21.80	21.77	
20	50	50		21.78	21.76	21.75	
20	100	0		21.81	21.78	21.70	
15	1	0		24.58	24.55	24.55	
15	1	37		24.55	24.54	24.53	
15	1	74		24.55	24.56	24.56	
15	36	0	QPSK	23.77	23.68	23.67	
15	36	20		23.72	23.74	23.73	
15	36	39		23.71	23.71	23.71	
15	75	0		23.75	23.71	23.65	
15	1	0		23.71	23.70	23.67	
15	1	37		23.62	23.56	23.61	
15	1	74		23.70	23.68	23.67	
15	36	0	16-QAM	22.75	22.65	22.65	
15	36	20		22.72	22.68	22.69	
15	36	39		22.70	22.68	22.67	
15	75	0		22.78	22.75	22.67	
15	1	0		22.40	22.36	22.35	
15	1	37		22.45	22.40	22.40	
15	1	74	64-QAM	22.43	22.40	22.38	
15	36	0		21.82	21.70	21.70	
15	36	20		21.78	21.74	21.74	
15	36	39		21.76	21.72	21.75	
15	75	0		21.79	21.76	21.67	



LTE Band 38 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.48	24.49	24.53	
10	1	25		24.50	24.49	24.51	
10	1	49		24.45	24.54	24.52	
10	25	0	QPSK	23.72	23.66	23.62	
10	25	12		23.67	23.73	23.68	
10	25	25		23.71	23.70	23.65	
10	50	0		23.70	23.69	23.56	
10	1	0		23.66	23.69	23.59	
10	1	25		23.60	23.52	23.53	
10	1	49		23.61	23.62	23.66	
10	25	0	16-QAM	22.70	22.55	22.63	
10	25	12		22.70	22.67	22.65	
10	25	25		22.62	22.62	22.67	
10	50	0		22.78	22.65	22.67	
10	1	0		22.32	22.34	22.30	
10	1	25		22.40	22.34	22.35	
10	1	49		22.40	22.38	22.31	
10	25	0	64-QAM	21.80	21.66	21.66	
10	25	12		21.75	21.73	21.67	
10	25	25		21.74	21.63	21.74	
10	50	0		21.71	21.70	21.63	
5	1	0		24.60	24.52	24.53	
5	1	12		24.53	24.50	24.53	
5	1	24		24.52	24.48	24.52	
5	12	0	QPSK	23.71	23.61	23.69	
5	12	7		23.74	23.70	23.68	
5	12	13		23.71	23.69	23.64	
5	25	0		23.70	23.67	23.65	
5	1	0		23.72	23.62	23.70	
5	1	12		23.71	23.67	23.67	
5	1	24		23.74	23.72	23.70	
5	12	0	16-QAM	22.69	22.58	22.68	
5	12	7		22.71	22.66	22.66	
5	12	13		22.66	22.62	22.62	
5	25	0		22.71	22.68	22.71	
5	1	0		22.49	22.36	22.42	
5	1	12		22.47	22.43	22.41	
5	1	24		22.47	22.44	22.42	
5	12	0	64-QAM	21.76	21.67	21.72	
5	12	7		21.75	21.73	21.73	
5	12	13		21.76	21.72	21.71	
5	25	0		21.80	21.74	21.70	



LTE Band 41 Maximum Average Power [dBm] BW [MHz] **RB Size RB Offset** Mod Lowest Middle Highest 20 1 24.74 24.61 24.55 0 20 1 49 24.68 24.48 24.84 20 1 99 24.66 24.57 24.67 20 50 0 **QPSK** 23.85 23.61 23.84 20 50 24 23.87 23.69 23.93 20 50 50 23.83 23.67 23.89 20 100 0 23.86 23.69 23.87 20 1 0 23.87 23.71 23.66 20 1 49 23.77 23.59 23.96 20 1 99 23.75 23.69 23.76 20 50 0 16-QAM 22.88 22.68 22.87 20 50 24 22.86 22.72 22.98 20 50 50 22.84 22.71 22.93 20 100 0 22.70 22.88 22.88 20 1 0 22.65 22.38 22.33 20 1 49 22.49 22.35 22.74 20 99 22.44 22.35 22.47 1 20 50 0 64-QAM 21.89 21.66 21.86 20 50 24 21.90 22.00 21.72 20 50 50 21.86 21.71 21.92 20 100 0 21.89 21.72 21.89 15 1 0 24.74 24.56 24.68 15 1 37 24.68 24.45 24.82 15 74 1 24.68 24.72 24.60 QPSK 15 36 0 23.86 23.62 23.84 15 36 20 23.87 23.69 23.93 15 36 39 23.84 23.66 23.89 15 75 0 23.87 23.69 23.87 15 1 0 23.87 23.66 23.75 15 1 37 23.57 23.93 23.70 15 1 74 23.78 23.72 23.85 36 16-QAM 22.83 22.84 15 0 22.57 15 36 20 22.84 22.64 22.90 15 36 39 22.81 22.63 22.86 15 22.91 75 0 22.88 22.70 15 0 22.63 22.31 22.44 1 37 22.70 15 1 22.56 22.35 15 1 74 22.47 22.41 22.59 15 36 0 64-QAM 21.87 21.65 21.90 15 36 20 21.88 21.69 21.95 15 36 39 21.84 21.70 21.93 15 75 0 21.90 21.71 21.92

LTE Band 41 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.66	24.53	24.63	
10	1	25	- -	24.59	24.36	24.74	
10	1	49		24.66	24.51	24.62	
10	25	0	QPSK	23.77	23.54	23.80	
10	25	12		23.85	23.63	23.87	
10	25	25		23.81	23.58	23.87	
10	50	0		23.82	23.59	23.83	
10	1	0		23.86	23.62	23.72	
10	1	25		23.61	23.49	23.92	
10	1	49		23.77	23.68	23.77	
10	25	0	16-QAM	22.82	22.52	22.81	
10	25	12		22.79	22.57	22.89	
10	25	25		22.80	22.53	22.82	
10	50	0		22.85	22.67	22.89	
10	1	0		22.63	22.28	22.36	
10	1	25		22.52	22.28	22.70	
10	1	49		22.46	22.40	22.56	
10	25	0	64-QAM	21.83	21.55	21.85	
10	25	12		21.80	21.61	21.88	
10	25	25		21.74	21.62	21.92	
10	50	0		21.81	21.63	21.90	
5	1	0		24.73	24.49	24.81	
5	1	12		24.67	24.53	24.77	
5	1	24		24.68	24.50	24.71	
5	12	0	QPSK	23.82	23.67	23.94	
5	12	7		23.84	23.71	23.94	
5	12	13		23.83	23.66	23.88	
5	25	0		23.80	23.69	23.88	
5	1	0		23.84	23.64	23.96	
5	1	12		23.89	23.78	24.00	
5	1	24		23.90	23.72	23.87	
5	12	0	16-QAM	22.83	22.64	22.92	
5	12	7		22.84	22.67	22.92	
5	12	13		22.80	22.67	22.86	
5	25	0		22.88	22.69	22.94	
5	1	0		22.64	22.36	22.70	
5	1	12		22.64	22.47	22.69	
5	1	24	64-QAM	22.67	22.44	22.62	
5	12	0		21.87	21.72	21.97	
5	12	7		21.88	21.73	21.96	
5	12	13		21.87	21.73	21.92	
5	25	0		21.87	21.76	21.97	



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LTE Band 41 (HPUE) Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
20	1	0	WOU .	25.71	25.81	25.68		
20	1	49		25.64	25.63	25.95		
20	1	99	QPSK	25.61	25.62	25.76		
20	50	0		24.99	24.91	25.11		
20	50	24		24.95	24.94	25.21		
20	50	50		24.88	24.89	25.13		
20	100	0		24.94	24.95	25.10		
20	1	0		25.14	25.22	25.04		
20	1	49		25.05	24.99	25.34		
20	1	99		24.96	25.01	25.14		
20	50	0	16-QAM	23.99	23.95	24.13		
20	50	24		23.99	23.99	24.26		
20	50	50		23.96	23.90	24.17		
20	100	0		24.00	23.98	24.14		
20	1	0		23.90	23.88	23.74		
20	1	49		23.74	23.75	24.13		
20	1	99		23.69	23.70	23.54		
20	50	0	64-QAM	23.01	22.98	23.16		
20	50	24		23.01	23.02	23.24		
20	50	50		22.96	22.94	22.91		
20	100	0		23.00	22.98	23.13		
15	1	0		25.84	25.83	25.92		
15	1	37		25.78	25.78	26.08		
15	1	74		25.78	25.80	25.93		
15	36	0	QPSK	24.98	24.90	25.09		
15	36	20		24.98	24.94	25.18		
15	36	39		24.92	24.87	25.11		
15	75	0		24.96	24.92	25.14		
15	1	0		25.11	25.13	25.16		
15	1	37		25.00	24.97	25.33		
15	1	74		25.03	25.03	25.20		
15	36	0	16-QAM	23.94	23.87	24.09		
15	36	20		23.92	23.90	24.17		
15	36	39		23.88	23.87	24.10		
15	75	0		23.96	23.97	24.13		
15	1	0		23.89	23.81	23.84		
15	1	37		23.83	23.74	24.04		
15	1	74	64-QAM	23.75	23.80	23.52		
15	36	0		22.98	22.93	23.16		
15	36	20		23.00	22.97	23.08		
15	36	39		22.96	22.92	22.82		
15	75	0		23.01	23.00	23.01		



	LTE Band 41 (HPUE) Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
10	1	0		25.89	25.79	25.79		
10	1	25		25.81	25.74	25.92		
10	1	49	OBSK	25.87	25.77	25.62		
10	25	0	QPSK	24.98	24.98	25.14		
10	25	12		25.02	24.99	25.19		
10	25	25		24.98	24.91	25.05		
10	50	0		24.98	24.95	25.09		
10	1	0		25.27	25.16	25.19		
10	1	25		25.22	25.10	25.32		
10	1	49		25.21	25.10	25.03		
10	25	0	16-QAM	23.99	23.95	24.14		
10	25	12		24.01	23.99	24.20		
10	25	25		23.96	23.89	24.07		
10	50	0		24.03	23.98	24.15		
10	1	0		24.08	23.94	23.97		
10	1	25		24.10	24.00	23.78		
10	1	49		24.01	23.91	23.39		
10	25	0	64-QAM	23.10	23.06	23.06		
10	25	12		23.11	23.08	22.94		
10	25	25		23.08	23.03	22.71		
10	50	0		23.06	23.02	22.81		
5	1	0		25.92	25.73	25.96		
5	1	12		25.88	25.77	25.93		
5	1	24		25.87	25.77	25.84		
5	12	0	QPSK	25.04	24.96	25.15		
5	12	7		25.08	24.98	25.13		
5	12	13		25.02	24.94	25.10		
5	25	0		25.00	24.96	25.09		
5	1	0		25.27	25.15	25.33		
5	1	12		25.23	25.17	25.30		
5	1	24		25.25	25.17	25.26		
5	12	0	16-QAM	24.06	23.98	24.17		
5	12	7		24.09	24.02	24.18		
5	12	13		24.05	23.99	24.11		
5	25	0		24.01	23.97	24.16		
5	1	0		24.05	23.92	23.76		
5	1	12		24.01	23.94	23.59		
5	1	24		24.04	23.95	23.45		
5	12	0	64-QAM	23.09	23.05	22.81		
5	12	7		23.15	23.11	22.75		
5	12	13		23.09	23.05	22.64		
5	25	0		23.09	23.09	22.73		



		LTE	Band 66 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.69	24.76	24.56
20	1	49		24.51	24.51	24.44
20	1	99		24.63	24.52	24.41
20	50	0	QPSK	23.70	23.68	23.64
20	50	24		23.77	23.63	23.68
20	50	50		23.75	23.68	23.64
20	100	0		23.76	23.70	23.72
20	1	0		24.02	23.99	23.90
20	1	49		23.90	23.82	23.78
20	1	99		23.98	23.83	23.75
20	50	0	16-QAM	22.69	22.69	22.67
20	50	24		22.77	22.63	22.71
20	50	50		22.78	22.69	22.67
20	100	0		22.76	22.70	22.74
20	1	0		22.85	22.87	22.77
20	1	49		22.77	22.71	22.70
20	1	99		22.87	22.82	22.66
20	50	0	64-QAM	21.72	21.69	21.69
20	50	24		21.79	21.65	21.72
20	50	50		21.78	21.70	21.67
20	100	0		21.82	21.72	21.72
15	1	0		24.64	24.61	24.57
15	1	37		24.55	24.51	24.49
15	1	74		24.69	24.60	24.50
15	36	0	QPSK	23.66	23.69	23.64
15	36	20		23.72	23.73	23.67
15	36	39		23.76	23.70	23.68
15	75	0		23.78	23.72	23.62
15	1	0		23.93	23.96	23.90
15	1	37		23.89	23.83	23.84
15	1	74		23.97	23.88	23.75
15	36	0	16-QAM	22.69	22.69	22.64
15	36	20		22.74	22.72	22.68
15	36	39		22.76	22.70	22.67
15	75	0		22.76	22.74	22.61
15	1	0		22.82	22.80	22.76
15	1	37		22.84	22.80	22.69
15	1	74		22.93	22.83	22.70
15	36	0	64-QAM	21.70	21.68	21.69
15	36	20		21.78	21.74	21.70
15	36	39		21.78	21.70	21.67
15	75	0		21.77	21.72	21.64



		LTE	Band 66 Ma	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.66	24.58	24.61
10	1	25		24.61	24.56	24.56
10	1	49		24.63	24.60	24.58
10	25	0	QPSK	23.74	23.66	23.64
10	25	12		23.76	23.75	23.64
10	25	25		23.75	23.72	23.68
10	50	0		23.76	23.73	23.64
10	1	0		24.07	24.01	23.99
10	1	25		23.99	23.95	23.97
10	1	49		24.09	23.97	23.98
10	25	0	16-QAM	22.76	22.65	22.63
10	25	12		22.79	22.74	22.66
10	25	25		22.74	22.69	22.69
10	50	0		22.77	22.73	22.64
10	1	0		22.95	22.87	22.82
10	1	25		22.95	22.90	22.89
10	1	49		22.93	22.89	22.85
10	25	0	64-QAM	21.77	21.69	21.67
10	25	12		21.80	21.77	21.67
10	25	25		21.76	21.72	21.74
10	50	0		21.81	21.77	21.65
5	1	0		24.64	24.60	24.61
5	1	12		24.70	24.65	24.63
5	1	24		24.66	24.62	24.58
5	12	0	QPSK	23.74	23.64	23.68
5	12	7		23.77	23.73	23.72
5	12	13		23.72	23.72	23.69
5	25	0		23.72	23.68	23.67
5	1	0		23.99	23.93	23.92
5	1	12		24.01	23.97	23.95
5	1	24		23.98	23.94	23.88
5	12	0	16-QAM	22.78	22.67	22.71
5	12	7		22.81	22.79	22.74
5	12	13		22.76	22.72	22.71
5	25	0		22.76	22.72	22.71
5	1	0		22.92	22.85	22.82
5	1	12		22.94	22.89	22.87
5	1	24		22.96	22.87	22.82
5	12	0	64-QAM	21.84	21.73	21.76
5	12	7		21.81	21.79	21.79
5	12	13		21.83	21.74	21.76
5	25	0		21.77	21.75	21.69

		LTE	Band 66 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.68	24.61	24.60
3	1	8		24.75	24.68	24.67
3	1	14		24.67	24.62	24.59
3	8	0	QPSK	23.77	23.67	23.70
3	8	4		23.79	23.75	23.69
3	8	7		23.78	23.70	23.69
3	15	0		23.74	23.72	23.66
3	1	0		24.01	23.89	23.93
3	1	8		24.11	24.05	23.99
3	1	14		24.02	23.97	23.96
3	8	0	16-QAM	22.82	22.71	22.75
3	8	4		22.84	22.78	22.78
3	8	7		22.80	22.79	22.76
3	15	0		22.80	22.75	22.73
3	1	0		22.94	22.88	22.90
3	1	8		23.04	22.99	22.95
3	1	14		22.97	22.92	22.88
3	8	0	64-QAM	21.81	21.73	21.72
3	8	4		21.86	21.82	21.76
3	8	7		21.82	21.77	21.74
3	15	0		21.78	21.74	21.74
1.4	1	0		24.61	24.56	24.54
1.4	1	3		24.68	24.62	24.62
1.4	1	5		24.59	24.58	24.54
1.4	3	0	QPSK	24.63	24.64	24.60
1.4	3	1		24.70	24.69	24.63
1.4	3	3		24.65	24.61	24.58
1.4	6	0		23.72	23.66	23.67
1.4	1	0		23.95	23.93	23.89
1.4	1	3		24.01	23.97	23.96
1.4	1	5		23.93	23.90	23.87
1.4	3	0	16-QAM	23.76	23.73	23.69
1.4	3	1		23.80	23.76	23.75
1.4	3	3		23.72	23.69	23.66
1.4	6	0		22.77	22.73	22.74
1.4	1	0		22.85	22.86	22.83
1.4	1	3		22.98	22.91	22.92
1.4	1	5		22.87	22.84	22.79
1.4	3	0	64-QAM	22.84	22.84	22.79
1.4	3	1		22.89	22.86	22.86
1.4	3	3		22.84	22.82	22.78
1.4	6	0		21.75	21.69	21.66

		LTE	Band 71 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.77	24.65	24.66
20	1	49		24.61	24.63	24.60
20	1	99		24.64	24.61	24.56
20	50	0	QPSK	23.80	23.72	23.74
20	50	24		23.83	23.75	23.70
20	50	50		23.82	23.76	23.71
20	100	0		23.81	23.72	23.76
20	1	0		24.08	24.00	24.00
20	1	49		23.97	23.94	23.94
20	1	99		23.97	23.92	23.89
20	50	0	16-QAM	22.80	22.73	22.75
20	50	24		22.82	22.74	22.72
20	50	50		22.79	22.76	22.72
20	100	0		22.81	22.70	22.78
20	1	0		22.14	22.65	22.86
20	1	49		22.64	22.85	22.15
20	1	99		22.85	22.34	22.79
20	50	0	64-QAM	20.83	21.73	21.42
20	50	24		21.26	21.74	21.57
20	50	50		21.82	21.38	21.75
20	100	0		21.41	21.75	21.80
15	1	0		24.76	24.66	24.65
15	1	37		24.57	24.58	24.58
15	1	74		24.60	24.59	24.55
15	36	0	QPSK	23.74	23.71	23.71
15	36	20		23.78	23.72	23.76
15	36	39		23.78	23.73	23.69
15	75	0		23.77	23.71	23.66
15	1	0		24.05	24.00	23.94
15	1	37		23.79	23.96	23.91
15	1	74		23.89	23.93	23.88
15	36	0	16-QAM	22.67	22.72	22.70
15	36	20		22.73	22.72	22.75
15	36	39		22.78	22.73	22.72
15	75	0		22.80	22.69	22.67
15	1	0		21.98	22.78	22.77
15	1	37		21.71	22.88	22.85
15	1	74		22.79	22.58	22.81
15	36	0	64-QAM	20.76	21.74	21.35
15	36	20		20.76	21.76	21.78
15	36	39		21.33	21.33	21.76
15	75	0		21.23	21.72	21.67



LTE Band 71 Maximum Average Power [dBm] BW [MHz] **RB Size RB Offset** Mod Lowest Middle Highest 10 1 24.69 24.59 24.64 0 10 1 25 24.54 24.52 24.52 10 1 49 24.57 24.61 24.50 10 25 0 **QPSK** 23.75 23.67 23.65 10 25 12 23.74 23.77 23.63 10 25 25 23.65 23.72 23.68 10 50 23.76 23.65 0 23.75 10 1 0 24.05 23.96 24.02 10 1 25 23.94 23.95 23.94 10 1 49 23.94 23.99 23.86 10 25 0 16-QAM 22.62 22.67 22.64 10 12 25 22.65 22.61 22.76 10 25 25 22.53 22.71 22.65 10 50 0 22.74 22.75 22.62 10 1 0 21.92 22.22 22.83 10 1 25 21.85 22.86 22.85 10 49 21.99 22.46 1 22.88 10 25 0 64-QAM 20.70 21.68 21.69 10 25 12 20.71 21.69 21.78 10 25 25 20.72 21.75 21.67 10 50 0 20.71 21.73 21.65 5 1 0 24.43 24.62 24.62 5 1 12 24.65 24.59 24.59 5 1 24 24.58 24.54 24.56 QPSK 5 12 0 23.66 23.70 23.65 5 12 7 23.68 23.72 23.68 5 12 13 23.70 23.70 23.61 5 25 0 23.67 23.69 23.61 5 1 0 23.83 23.95 23.93 5 1 12 23.88 23.93 23.89 5 1 24 23.85 23.91 23.83 12 16-QAM 22.51 22.73 5 0 22.75 7 5 12 22.66 22.76 22.71 5 12 13 22.73 22.70 22.63 25 22.58 22.74 22.62 5 0 5 0 21.70 21.90 22.87 1 5 1 12 21.71 22.90 22.78 5 1 24 21.85 22.88 22.23 5 12 0 64-QAM 20.72 21.54 21.72 7 5 12 20.83 21.77 21.75 5 12 13 20.78 21.74 21.61 5 25 0 20.64 21.51 21.57



	LTE Band 5_CA Maximum Average Power [dBm]												
BW [MHz]	P	CC	S	CC	Mod								
BW [IMITZ]	RB Size	RB Offset	RB Size	RB Offset	WOO	Lowest	Middle	Highest					
10+10	50	0	50	0		24.09	24.10	23.52					
10+10	1	0	1	49	QPSK	10.93	11.08	11.23					
10+10	1	49	1	0		25.66	25.46	25.36					
10+10	50	0	50	0		23.10	23.12	23.09					
10+10	1	0	1	49	16-QAM	11.50	11.81	11.70					
10+10	1	49	1	0		25.42	24.82	24.67					
10+10	50	0	50	0		22.26	22.40	22.03					
10+10	1	0	1	49	64-QAM	11.22	11.69	11.35					
10+10	1	49	1	0		23.05	22.13	21.69					
10+5	50	0	25	0		24.06	23.89	23.91					
10+5	1	0	1	24	QPSK	11.42	12.04	12.09					
10+5	1	49	1	0		25.57	25.56	25.11					
10+5	50	0	25	0		23.11	24.65	22.61					
10+5	1	0	1	24	16-QAM	11.85	12.39	12.41					
10+5	1	49	1	0		25.31	24.05	24.39					
10+5	50	0	25	0		22.41	22.11	21.45					
10+5	1	0	1	24	64-QAM	11.56	12.58	12.51					
10+5	1	49	1	0		22.71	21.65	22.06					
5+10	25	0	50	0		24.17	23.97	23.99					
5+10	1	0	1	49	QPSK	11.23	12.11	12.24					
5+10	1	24	1	0		25.64	25.47	25.11					
5+10	25	0	50	0		23.05	24.82	22.46					
5+10	1	0	1	49	16-QAM	11.96	12.56	12.44					
5+10	1	24	1	0		25.47	23.93	24.28					
5+10	25	0	50	0		22.43	22.31	21.30					
5+10	1	0	1	49	64-QAM	11.50	12.71	12.43					
5+10	1	24	1	0		22.88	21.63	21.90					



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	LTE Band 66B_CA Maximum Average Power [dBm]												
	P	CC	S	CC									
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest					
10+10	50	0	50	0		23.67	23.87	22.83					
10+10	1	0	1	49	QPSK	15.83	15.35	15.55					
10+10	1	49	1	0		25.68	25.69	24.23					
10+10	50	0	50	0		22.61	22.84	21.96					
10+10	1	0	1	49	16-QAM	15.93	15.76	15.96					
10+10	1	49	1	0		25.19	25.07	23.66					
10+10	50	0	50	0		21.73	21.95	20.84					
10+10	1	0	1	49	64-QAM	15.77	15.72	15.85					
10+10	1	49	1	0		22.41	22.88	20.56					
15+5	75	0	25	0		23.48	23.67	22.99					
15+5	1	0	1	24	QPSK	15.89	15.12	15.64					
15+5	1	74	1	0		25.37	25.40	24.51					
15+5	75	0	25	0		22.31	22.75	22.00					
15+5	1	0	1	24	16-QAM	15.68	15.51	15.68					
15+5	1	74	1	0		25.16	24.96	23.84					
15+5	75	0	25	0		21.86	22.17	20.68					
15+5	1	0	1	24	64-QAM	15.82	15.94	16.07					
15+5	1	74	1	0		22.63	23.04	20.59					
5+15	25	0	75	0		23.72	24.07	23.08					
5+15	1	0	1	74	QPSK	15.59	15.23	15.60					
5+15	1	24	1	0		25.55	25.62	24.00					
5+15	25	0	75	0		22.59	22.85	22.13					
5+15	1	0	1	74	16-QAM	16.09	15.98	15.66					
5+15	1	24	1	0		25.07	24.78	23.62					
5+15	25	0	75	0		21.54	21.95	20.78					
5+15	1	0	1	74	64-QAM	15.59	15.87	15.83					
5+15	1	24	1	0		22.50	23.07	20.30					



		LTE B	and 66B_0	CA Maximu	ım Average	Power [dBm	]	
DVA/ FMILL-1	P	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10+5	50	0	25	0		23.45	23.91	22.98
10+5	1	0	1	24	QPSK	15.63	15.15	15.56
10+5	1	49	1	0		25.63	25.50	24.50
10+5	50	0	25	0		22.31	23.02	21.72
10+5	1	0	1	24	16-QAM	16.17	15.91	15.87
10+5	1	49	1	0		25.09	24.84	23.51
10+5	50	0	25	0		21.63	21.80	21.05
10+5	1	0	1	24	64-QAM	15.83	15.52	16.00
10+5	1	49	1	0		22.34	22.87	20.36
5+10	25	0	50	0		23.48	24.04	22.94
5+10	1	0	1	49	QPSK	15.68	15.14	15.25
5+10	1	24	1	0		25.61	25.62	24.38
5+10	25	0	50	0		22.36	23.13	22.20
5+10	1	0	1	49	16-QAM	15.83	15.91	16.25
5+10	1	24	1	0		25.47	24.79	23.84
5+10	25	0	50	0		21.65	22.00	21.12
5+10	1	0	1	49	64-QAM	15.85	15.62	15.96
5+10	1	24	1	0		22.22	22.98	20.69
5+5	25	0	25	0		23.95	23.68	22.58
5+5	1	0	1	24	QPSK	15.94	15.11	15.81
5+5	1	24	1	0		25.59	25.44	23.94
5+5	25	0	25	0		22.74	22.76	21.88
5+5	1	0	1	24	16-QAM	15.63	15.48	16.10
5+5	1	24	1	0		25.10	24.86	23.95
5+5	25	0	25	0		21.93	21.73	20.66
5+5	1	0	1	24	64-QAM	15.75	15.93	15.96
5+5	1	24	1	0		22.28	22.72	20.41



		LTE B	and 66C_0	CA Maximu	ım Average	Power [dBm	]	
DIA/ FMI I-1	P	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+20	100	0	100	0		23.16	23.16	23.46
20+20	1	0	1	99	QPSK	16.86	16.87	17.46
20+20	1	99	1	0		25.62	25.64	25.39
20+20	100	0	100	0		22.44	22.03	22.27
20+20	1	0	1	99	16-QAM	17.35	17.58	16.53
20+20	1	99	1	0		24.75	24.56	25.00
20+20	100	0	100	0		21.45	21.38	21.96
20+20	1	0	1	99	64-QAM	17.31	16.92	16.98
20+20	1	99	1	0		22.44	23.30	23.41
20+15	100	0	75	0		23.45	23.36	23.68
20+15	1	0	1	74	QPSK	16.84	16.94	17.17
20+15	1	74	1	0		25.38	25.47	25.35
20+15	100	0	75	0		22.44	22.13	22.54
20+15	1	0	1	74	16-QAM	17.45	17.34	16.77
20+15	1	74	1	0		24.75	24.84	24.98
20+15	100	0	75	0		21.50	21.36	21.78
20+15	1	0	1	74	64-QAM	17.41	17.13	16.98
20+15	1	74	1	0		22.43	23.07	23.22
15+20	75	0	100	0		23.46	23.39	23.55
15+20	1	0	1	99	QPSK	16.62	16.70	17.22
15+20	1	74	1	0		25.59	25.18	25.43
15+20	75	0	100	0		22.60	21.99	22.70
15+20	1	0	1	99	16-QAM	17.15	17.06	17.00
15+20	1	74	1	0		24.94	24.61	24.95
15+20	75	0	100	0		21.33	21.60	21.82
15+20	1	0	1	99	64-QAM	17.15	17.27	17.06
15+20	1	74	1	0		22.13	23.19	23.28



		LTE B	and 66C (	CA Maximu	ım Average	Power [dBm	1]	
	P	CC		CC		-		
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	50	0		23.52	23.54	23.83
20+10	1	0	1	49	QPSK	16.62	17.17	16.90
20+10	1	99	1	0		25.27	25.20	25.40
20+10	100	0	50	0		22.58	21.96	22.55
20+10	1	0	1	49	16-QAM	17.65	17.22	16.73
20+10	1	99	1	0		24.78	24.84	24.89
20+10	100	0	50	0		21.45	21.25	21.55
20+10	1	0	1	49	64-QAM	17.42	17.11	16.80
20+10	1	99	1	0		22.64	22.77	23.49
10+20	50	0	100	0		23.45	23.64	23.59
10+20	1	0	1	99	QPSK	16.89	17.04	17.31
10+20	1	49	1	0		25.15	25.20	25.59
10+20	50	0	100	0		22.22	21.86	22.38
10+20	1	0	1	99	16-QAM	17.65	17.46	16.61
10+20	1	49	1	0		24.96	25.09	25.08
10+20	50	0	100	0		21.49	21.26	21.76
10+20	1	0	1	99	64-QAM	17.71	16.85	17.18
10+20	1	49	1	0		22.31	23.14	23.13
20+5	100	0	25	0		23.17	23.28	23.39
20+5	1	0	1	24	QPSK	17.00	16.96	17.12
20+5	1	99	1	0		25.30	25.20	25.49
20+5	100	0	25	0		22.40	22.12	22.29
20+5	1	0	1	24	16-QAM	17.28	17.46	17.00
20+5	1	99	1	0		24.78	24.65	24.97
20+5	100	0	25	0		21.69	21.23	21.75
20+5	1	0	1	24	64-QAM	17.66	17.19	17.09
20+5	1	99	1	0		22.23	23.14	23.01
5+20	25	0	100	0		23.61	23.12	23.79
5+20	1	0	1	99	QPSK	16.82	16.96	17.21
5+20	1	24	1	0		25.60	25.37	25.48
5+20	25	0	100	0		22.34	22.24	22.47
5+20	1	0	1	99	16-QAM	17.27	17.58	16.75
5+20	1	24	1	0		24.71	24.68	25.07
5+20	25	0	100	0		21.50	21.18	21.63
5+20	1	0	1	99	64-QAM	17.28	17.43	16.76
5+20	1	24	1	0		22.23	23.20	22.94



	LTE Band 66C_CA Maximum Average Power [dBm]											
	P	CC		CC		-	-					
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
15+10	75	0	50	0		23.69	23.49	23.90				
15+10	1	0	1	49	QPSK	16.98	16.80	17.39				
15+10	1	74	1	0		25.40	25.22	25.59				
15+10	75	0	50	0		22.30	21.93	22.28				
15+10	1	0	1	49	16-QAM	17.29	17.19	16.85				
15+10	1	74	1	0		24.69	25.08	25.24				
15+10	75	0	50	0		21.51	21.11	21.80				
15+10	1	0	1	49	64-QAM	17.40	16.95	17.28				
15+10	1	74	1	0		22.63	23.33	23.19				
10+15	50	0	75	0		23.62	23.20	23.79				
10+15	1	0	1	74	QPSK	16.89	16.72	17.32				
10+15	1	49	1	0		25.61	25.19	25.43				
10+15	50	0	75	0		22.18	21.94	22.82				
10+15	1	0	1	74	16-QAM	17.40	17.20	16.66				
10+15	1	49	1	0		24.89	24.61	24.68				
10+15	50	0	75	0		21.58	21.59	21.49				
10+15	1	0	1	74	64-QAM	17.19	17.23	17.07				
10+15	1	49	1	0		22.18	22.91	23.52				
15+15	75	0	75	0		23.16	23.46	23.73				
15+15	1	0	1	74	QPSK	16.88	16.69	17.05				
15+15	1	74	1	0		25.56	25.47	25.55				
15+15	75	0	75	0		22.36	22.06	22.76				
15+15	1	0	1	74	16-QAM	17.26	17.41	16.88				
15+15	1	74	1	0		25.03	24.71	24.89				
15+15	75	0	75	0		21.27	21.34	21.97				
15+15	1	0	1	74	64-QAM	17.58	16.89	16.72				
15+15	1	74	1	0		22.62	23.05	23.24				



		LTE	Band 7_C	A Maximur	n Average F	Power [dBm]		
DVA/ FMILL=1	P	CC		CC	Mod			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	WOO	Lowest	Middle	Highest
20+20	100	0	100	0		21.21	21.40	21.63
20+20	1	0	1	99	QPSK	15.55	15.41	15.67
20+20	1	99	1	0		25.59	25.68	25.64
20+20	100	0	100	0		20.18	20.30	20.60
20+20	1	0	1	99	16-QAM	15.91	16.01	16.13
20+20	1	99	1	0		24.32	24.04	23.90
20+20	100	0	100	0		22.56	22.30	22.51
20+20	1	0	1	99	64-QAM	16.18	16.25	16.47
20+20	1	99	1	0		23.39	23.17	23.19
20+15	100	0	75	0		21.02	21.65	21.41
20+15	1	0	1	74	QPSK	15.72	15.41	15.37
20+15	1	99	1	0		25.50	25.59	25.49
20+15	100	0	75	0		20.30	20.37	20.69
20+15	1	0	1	74	16-QAM	16.03	15.87	16.04
20+15	1	99	1	0		24.03	24.09	23.71
20+15	100	0	75	0		22.79	22.43	22.38
20+15	1	0	1	74	64-QAM	16.42	15.96	16.75
20+15	1	99	1	0		23.55	23.41	23.03
15+20	75	0	100	0		21.00	21.46	21.87
15+20	1	0	1	99	QPSK	15.82	15.11	15.61
15+20	1	74	1	0		25.42	25.47	25.38
15+20	75	0	100	0		20.30	20.00	20.31
15+20	1	0	1	99	16-QAM	15.69	16.15	15.95
15+20	1	74	1	0		24.10	24.13	24.15
15+20	75	0	100	0		22.61	22.13	22.51
15+20	1	0	1	99	64-QAM	15.91	15.98	16.44
15+20	1	74	1	0		23.27	23.31	23.43

		LTE	Band 7_C	A Maximur	n Average P	ower [dBm]		
DVA/ FNALL-1	P	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	75	0		21.12	21.41	21.68
20+10	1	0	1	74	QPSK	15.37	15.46	15.47
20+10	1	99	1	0		25.62	25.66	25.51
20+10	100	0	75	0		20.12	20.13	20.34
20+10	1	0	1	74	16-QAM	16.21	16.24	16.27
20+10	1	99	1	0		24.08	24.11	23.72
20+10	100	0	75	0		22.32	22.38	22.40
20+10	1	0	1	74	64-QAM	16.31	16.37	16.69
20+10	1	99	1	0		23.34	23.01	23.04
10+20	75	0	100	0		20.94	21.58	21.75
10+20	1	0	1	99	QPSK	15.42	15.49	15.47
10+20	1	74	1	0		25.67	25.48	25.62
10+20	75	0	100	0		20.44	20.55	20.62
10+20	1	0	1	99	16-QAM	15.63	15.81	16.38
10+20	1	74	1	0		24.53	24.06	23.90
10+20	75	0	100	0		22.48	22.49	22.46
10+20	1	0	1	99	64-QAM	16.06	16.54	16.49
10+20	1	74	1	0		23.36	23.26	23.03
15+15	75	0	100	0		21.28	21.46	21.39
15+15	1	0	1	99	QPSK	15.82	15.22	15.97
15+15	1	74	1	0		25.37	25.44	25.63
15+15	75	0	100	0		20.22	20.22	20.74
15+15	1	0	1	99	16-QAM	15.82	16.11	15.90
15+15	1	74	1	0		24.35	23.89	23.80
15+15	75	0	100	0		22.81	22.46	22.75
15+15	1	0	1	99	64-QAM	16.34	16.52	16.45
15+15	1	74	1	0		23.24	23.09	23.25
15+10	75	0	100	0		21.37	21.33	21.47
15+10	1	0	1	99	QPSK	15.53	15.43	15.58
15+10	1	74	1	0		25.62	25.62	25.60
15+10	75	0	100	0		20.32	20.01	20.57
15+10	1	0	1	99	16-QAM	16.13	16.04	16.33
15+10	1	74	1	0		24.35	24.33	23.96
15+10	75	0	100	0		22.40	22.44	22.39
15+10	1	0	1	99	64-QAM	16.00	16.23	16.27
15+10	1	74	1	0		23.09	23.33	23.32



		LTE E	Band 41_C	A Maximu	m Average	Power [dBm]		
BW [MHz]	P	CC	S	CC	Mod			
BVV [IVITZ]	RB Size	RB Offset	RB Size	RB Offset	IVIOU	Lowest	Middle	Highest
20+20	100	0	100	0		23.49	23.57	23.87
20+20	1	0	1	99	QPSK	16.74	17.14	17.21
20+20	1	99	1	0		25.12	25.36	25.49
20+20	100	0	100	0		22.36	22.71	22.81
20+20	1	0	1	99	16-QAM	17.24	17.61	17.84
20+20	1	99	1	0		24.53	24.87	25.45
20+20	100	0	100	0		22.39	22.53	22.91
20+20	1	0	1	99	64-QAM	17.11	17.34	17.36
20+20	1	99	1	0		23.33	23.95	23.25
20+15	100	0	75	0		23.26	23.90	23.95
20+15	1	0	1	74	QPSK	16.74	16.99	17.02
20+15	1	99	1	0		25.01	25.34	25.24
20+15	100	0	75	0		22.38	22.59	23.07
20+15	1	0	1	74	16-QAM	17.31	17.93	17.35
20+15	1	99	1	0		24.43	24.75	25.34
20+15	100	0	75	0		22.60	22.50	22.62
20+15	1	0	1	74	64-QAM	17.20	17.33	17.54
20+15	1	99	1	0		23.31	24.02	23.07
15+20	75	0	100	0		23.51	23.78	23.65
15+20	1	0	1	99	QPSK	16.88	17.06	17.07
15+20	1	74	1	0		25.10	25.07	25.36
15+20	75	0	100	0		22.26	22.82	23.06
15+20	1	0	1	99	16-QAM	17.17	17.84	17.79
15+20	1	74	1	0		24.84	24.69	25.36
15+20	75	0	100	0		22.34	22.99	22.77
15+20	1	0	1	99	64-QAM	16.85	17.17	17.57
15+20	1	74	1	0		23.37	23.99	23.47

		LTE E	Band 41_C	A Maximu	m Average F	Power [dBm]		
D)4/ F1411 1	P	CC	S	CC				
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	50	0		23.31	23.60	23.63
20+10	1	0	1	49	QPSK	16.96	17.21	17.30
20+10	1	99	1	0		24.93	25.18	25.26
20+10	100	0	50	0		22.16	22.72	22.68
20+10	1	0	1	49	16-QAM	17.44	17.42	17.69
20+10	1	99	1	0		24.71	25.11	25.38
20+10	100	0	50	0		22.33	22.96	23.10
20+10	1	0	1	49	64-QAM	17.23	17.07	17.43
20+10	1	99	1	0		23.54	24.02	23.27
10+20	50	0	100	0		23.24	23.67	23.59
10+20	1	0	1	99	QPSK	16.74	16.82	17.30
10+20	1	49	1	0	•	25.04	25.40	25.33
10+20	50	0	100	0		22.45	22.87	22.99
10+20	1	0	1	99	16-QAM	17.13	17.55	17.87
10+20	1	49	1	0	•	24.55	24.80	25.25
10+20	50	0	100	0		22.45	22.51	23.06
10+20	1	0	1	99	64-QAM	17.30	17.37	17.29
10+20	1	49	1	0		23.17	24.00	23.14
20+5	100	0	25	0		23.22	23.65	23.78
20+5	1	0	1	24	QPSK	16.71	17.24	17.06
20+5	1	99	1	0		25.24	25.37	25.42
20+5	100	0	25	0		22.31	22.85	23.15
20+5	1	0	1	24	16-QAM	17.27	17.39	17.81
20+5	1	99	1	0		24.75	25.17	25.30
20+5	100	0	25	0		22.28	22.98	22.65
20+5	1	0	1	24	64-QAM	16.97	17.55	17.59
20+5	1	99	1	0		23.65	23.74	23.13
5+20	25	0	100	0		23.33	23.81	24.06
5+20	1	0	1	99	QPSK	16.79	16.85	16.88
5+20	1	24	1	0		24.99	25.38	25.46
5+20	25	0	100	0		22.37	22.94	22.99
5+20	1	0	1	99	16-QAM	17.12	17.39	17.88
5+20	1	24	1	0		24.47	25.11	25.34
5+20	25	0	100	0		22.26	22.91	22.73
5+20	1	0	1	99	64-QAM	16.89	17.47	17.41
5+20	1	24	1	0		23.43	23.74	23.32

		LTE E	Band 41_C	A Maximu	m Average	Power [dBm]		
DVA/ FRAUL-1	P	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15+10	75	0	50	0		23.34	23.92	23.94
15+10	1	0	1	49	QPSK	16.71	17.12	17.18
15+10	1	74	1	0		25.40	25.48	25.33
15+10	75	0	50	0		22.52	22.51	22.76
15+10	1	0	1	49	16-QAM	17.44	17.69	17.63
15+10	1	74	1	0		24.83	25.05	25.38
15+10	75	0	50	0		22.43	22.72	22.76
15+10	1	0	1	49	64-QAM	17.11	17.66	17.48
15+10	1	74	1	0		23.74	23.53	23.51
10+15	50	0	75	0		23.60	23.62	23.57
10+15	1	0	1	74	QPSK	16.53	17.26	17.14
10+15	1	49	1	0		25.26	25.27	25.23
10+15	50	0	75	0		22.29	22.88	22.90
10+15	1	0	1	74	16-QAM	17.37	17.61	17.81
10+15	1	49	1	0		24.66	24.83	25.42
10+15	50	0	75	0		22.55	22.65	23.15
10+15	1	0	1	74	64-QAM	17.01	17.54	17.32
10+15	1	49	1	0		23.48	23.75	23.13
15+15	75	0	75	0		23.38	23.69	23.80
15+15	1	0	1	74	QPSK	16.56	17.23	17.16
15+15	1	74	1	0		25.01	25.41	25.26
15+15	75	0	75	0		22.43	22.80	22.89
15+15	1	0	1	74	16-QAM	17.25	17.68	17.44
15+15	1	74	1	0		24.86	24.92	25.37
15+15	75	0	75	0		22.34	22.55	22.99
15+15	1	0	1	74	64-QAM	16.94	17.26	17.49
15+15	1	74	1	0		23.35	23.67	23.31

## <ASDIV Antenna>

<asdiv< th=""><th>Antenna</th><th></th><th>Band 2 Max</th><th>kimum Average Po</th><th>ower [dBm]</th><th></th></asdiv<>	Antenna		Band 2 Max	kimum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.30	24.14	24.18
20	1	49		24.12	24.11	24.11
20	1	99		24.12	24.12	24.14
20	50	0	QPSK	23.24	23.19	23.17
20	50	24		23.34	23.29	23.20
20	50	50		23.31	23.28	23.28
20	100	0		23.33	23.28	23.20
20	1	0		23.51	23.49	23.51
20	1	49		23.47	23.47	23.45
20	1	99		23.44	23.48	23.49
20	50	0	16-QAM	22.24	22.21	22.21
20	50	24		22.34	22.30	22.21
20	50	50		22.33	22.31	22.31
20	100	0		22.31	22.29	22.20
20	1	0		22.39	22.35	22.33
20	1	49		22.39	22.33	21.77
20	1	99		22.36	22.32	21.96
20	50	0	64-QAM	21.26	21.23	21.06
20	50	24		21.34	21.32	20.95
20	50	50		21.34	21.31	20.94
20	100	0		21.33	21.30	20.98
15	1	0		24.20	24.19	24.20
15	1	37		24.18	24.17	24.14
15	1	74		24.20	24.20	24.21
15	36	0	QPSK	23.34	23.21	23.19
15	36	20		23.36	23.35	23.23
15	36	39		23.32	23.33	23.32
15	75	0		23.35	23.31	23.20
15	1	0		23.49	23.53	23.48
15	1	37		23.47	23.50	23.45
15	1	74		23.53	23.50	23.48
15	36	0	16-QAM	22.33	22.21	22.19
15	36	20		22.36	22.32	22.22
15	36	39		22.34	22.35	22.32
15	75	0		22.35	22.34	22.20
15	1	0		22.41	22.36	22.01
15	1	37		22.44	22.43	21.76
15	1	74		22.43	22.43	21.91
15	36	0	64-QAM	21.35	21.25	20.82
15	36	20		21.38	21.35	20.90
15	36	39		21.40	21.39	20.95
15	75	0		21.36	21.32	20.82



		LTE	Band 2 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.22	24.09	24.14
10	1	25		24.12	24.14	24.12
10	1	49		24.17	24.18	24.18
10	25	0	QPSK	23.34	23.22	23.20
10	25	12		23.36	23.34	23.24
10	25	25		23.37	23.34	23.34
10	50	0		23.35	23.33	23.25
10	1	0		23.57	23.50	23.49
10	1	25		23.54	23.53	23.56
10	1	49		23.56	23.53	23.51
10	25	0	16-QAM	22.34	22.23	22.18
10	25	12		22.36	22.34	22.25
10	25	25		22.32	22.34	22.32
10	50	0		22.36	22.33	22.22
10	1	0		22.47	22.37	21.92
10	1	25		22.44	22.46	22.04
10	1	49		22.45	22.47	22.01
10	25	0	64-QAM	21.36	21.25	20.82
10	25	12		21.44	21.37	21.00
10	25	25		21.39	21.38	20.90
10	50	0		21.36	21.33	20.81
5	1	0		24.17	24.11	24.13
5	1	12		24.23	24.22	24.23
5	1	24		24.22	24.20	24.19
5	12	0	QPSK	23.30	23.20	23.27
5	12	7		23.38	23.34	23.29
5	12	13		23.33	23.32	23.29
5	25	0		23.33	23.29	23.26
5	1	0		23.50	23.39	23.46
5	1	12		23.50	23.48	23.46
5	1	24		23.55	23.52	23.48
5	12	0	16-QAM	22.37	22.25	22.27
5	12	7		22.39	22.35	22.35
5	12	13		22.34	22.33	22.31
5	25	0		22.36	22.34	22.27
5	1	0		22.50	22.39	21.91
5	1	12		22.45	22.44	21.98
5	1	24		22.46	22.48	21.87
5	12	0	64-QAM	21.39	21.31	20.93
5	12	7		21.43	21.41	20.98
5	12	13		21.41	21.40	20.92
5	25	0		21.38	21.35	20.88



		LTE	Band 2 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.21	24.16	24.14
3	1	8		24.28	24.27	24.22
3	1	14		24.25	24.22	24.17
3	8	0	QPSK	23.34	23.32	23.24
3	8	4		23.36	23.32	23.32
3	8	7		23.33	23.31	23.27
3	15	0		23.37	23.32	23.26
3	1	0		23.52	23.47	23.42
3	1	8		23.57	23.54	23.52
3	1	14		23.56	23.52	23.49
3	8	0	16-QAM	22.39	22.37	22.31
3	8	4		22.43	22.39	22.40
3	8	7		22.42	22.36	22.34
3	15	0		22.35	22.33	22.33
3	1	0		22.49	22.41	22.01
3	1	8		22.56	22.53	22.10
3	1	14		22.52	22.48	22.00
3	8	0	64-QAM	21.39	21.35	20.95
3	8	4		21.47	21.44	20.98
3	8	7		21.40	21.37	20.87
3	15	0		21.38	21.35	20.92
1.4	1	0		24.19	24.08	24.08
1.4	1	3		24.22	24.16	24.16
1.4	1	5		24.16	24.10	24.08
1.4	3	0	QPSK	24.20	24.13	24.09
1.4	3	1		24.24	24.19	24.16
1.4	3	3		24.20	24.15	24.11
1.4	6	0		23.29	23.22	23.21
1.4	1	0		23.50	23.42	23.37
1.4	1	3		23.58	23.53	23.52
1.4	1	5		23.52	23.49	23.41
1.4	3	0	16-QAM	23.26	23.21	23.19
1.4	3	1		23.33	23.27	23.23
1.4	3	3		23.24	23.22	23.14
1.4	6	0		22.37	22.31	22.27
1.4	1	0		22.41	22.41	21.96
1.4	1	3		22.50	22.45	22.03
1.4	1	5		22.39	22.41	21.98
1.4	3	0	64-QAM	22.37	22.33	21.96
1.4	3	1		22.44	22.39	22.07
1.4	3	3		22.38	22.34	21.96
1.4	6	0		21.32	21.27	20.85

		LTE	Band 25 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.39	24.16	24.06
20	1	49		24.17	24.16	24.05
20	1	99		24.12	24.12	23.91
20	50	0	QPSK	23.32	23.28	23.17
20	50	24		23.36	23.34	23.17
20	50	50		23.31	23.31	23.23
20	100	0	-	23.38	23.33	23.18
20	1	0		23.58	23.52	23.43
20	1	49		23.53	23.51	23.39
20	1	99		23.44	23.49	23.23
20	50	0	16-QAM	22.30	22.30	22.17
20	50	24		22.37	22.35	22.20
20	50	50		22.35	22.33	22.24
20	100	0		22.36	22.33	22.19
20	1	0		22.45	22.40	22.22
20	1	49		22.40	22.35	21.96
20	1	99		22.43	22.38	21.73
20	50	0	64-QAM	21.34	21.31	20.87
20	50	24		21.41	21.38	20.93
20	50	50		21.36	21.35	20.74
20	100	0		21.39	21.37	20.64
15	1	0		24.27	24.22	24.10
15	1	37		24.20	24.17	24.08
15	1	74		24.24	24.23	23.85
15	36	0	QPSK	23.41	23.29	23.16
15	36	20		23.36	23.35	23.24
15	36	39		23.32	23.32	23.20
15	75	0		23.36	23.32	23.24
15	1	0		23.52	23.51	23.42
15	1	37		23.53	23.50	23.40
15	1	74		23.50	23.51	23.21
15	36	0	16-QAM	22.42	22.30	22.20
15	36	20		22.38	22.36	22.27
15	36	39		22.32	22.32	22.20
15	75	0		22.37	22.36	22.25
15	1	0		22.43	22.38	21.82
15	1	37		22.43	22.45	21.89
15	1	74		22.37	22.45	21.71
15	36	0	64-QAM	21.46	21.33	20.88
15	36	20		21.43	21.40	20.96
15	36	39		21.36	21.37	20.71
15	75	0		21.39	21.37	20.70



		LTE	Band 25 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.24	24.20	24.08
10	1	25		24.21	24.17	24.10
10	1	49		24.22	24.22	23.83
10	25	0	QPSK	23.36	23.33	23.13
10	25	12		23.36	23.35	23.26
10	25	25		23.37	23.36	23.19
10	50	0	-	23.38	23.34	23.19
10	1	0		23.66	23.59	23.43
10	1	25		23.63	23.57	23.48
10	1	49		23.60	23.61	23.19
10	25	0	16-QAM	22.37	22.33	22.14
10	25	12		22.40	22.38	22.26
10	25	25		22.39	22.33	22.22
10	50	0		22.38	22.36	22.16
10	1	0		22.54	22.43	22.03
10	1	25		22.56	22.49	21.90
10	1	49		22.49	22.53	21.72
10	25	0	64-QAM	21.39	21.38	20.87
10	25	12		21.44	21.41	20.91
10	25	25		21.40	21.40	20.64
10	50	0		21.38	21.41	20.59
5	1	0		24.26	24.18	24.13
5	1	12		24.32	24.29	24.12
5	1	24		24.30	24.28	23.82
5	12	0	QPSK	23.32	23.29	23.19
5	12	7		23.38	23.34	23.23
5	12	13		23.37	23.34	23.04
5	25	0		23.33	23.33	23.16
5	1	0		23.62	23.53	23.46
5	1	12		23.61	23.56	23.41
5	1	24		23.64	23.60	23.15
5	12	0	16-QAM	22.34	22.33	22.19
5	12	7		22.41	22.38	22.27
5	12	13		22.43	22.39	22.19
5	25	0		22.39	22.33	22.21
5	1	0		22.52	22.46	21.85
5	1	12		22.49	22.45	21.71
5	1	24		22.53	22.50	21.74
5	12	0	64-QAM	21.40	21.40	20.77
5	12	7		21.47	21.45	20.63
5	12	13		21.47	21.43	20.44
5	25	0		21.39	21.36	20.54

		LTE	Band 25 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.22	24.11	24.06
3	1	8		24.36	24.33	23.95
3	1	14		24.32	24.31	23.74
3	8	0	QPSK	23.29	23.27	23.15
3	8	4		23.35	23.38	23.08
3	8	7		23.41	23.38	22.93
3	15	0		23.38	23.33	22.99
3	1	0		23.57	23.44	23.33
3	1	8		23.72	23.67	23.23
3	1	14		23.67	23.66	23.05
3	8	0	16-QAM	22.39	22.37	22.20
3	8	4		22.46	22.40	22.22
3	8	7		22.44	22.43	22.14
3	15	0		22.40	22.37	22.19
3	1	0		22.46	22.36	21.70
3	1	8		22.59	22.56	21.72
3	1	14		22.59	22.57	21.73
3	8	0	64-QAM	21.39	21.37	21.71
3	8	4		21.49	21.43	20.43
3	8	7		21.47	21.45	20.30
3	15	0		21.41	21.37	20.36
1.4	1	0		24.18	24.15	23.83
1.4	1	3		24.25	24.25	23.82
1.4	1	5		24.25	24.21	23.70
1.4	3	0	QPSK	24.19	24.19	23.81
1.4	3	1		24.27	24.22	23.83
1.4	3	3		24.26	24.21	23.72
1.4	6	0		23.28	23.27	22.91
1.4	1	0		23.51	23.46	23.14
1.4	1	3		23.60	23.58	23.13
1.4	1	5		23.56	23.55	23.06
1.4	3	0	16-QAM	23.29	23.27	22.97
1.4	3	1		23.39	23.34	22.97
1.4	3	3		23.30	23.31	22.90
1.4	6	0		22.37	22.32	22.07
1.4	1	0		22.41	22.39	21.71
1.4	1	3		22.52	22.53	21.70
1.4	1	5		22.47	22.41	21.71
1.4	3	0	64-QAM	22.40	22.36	21.72
1.4	3	1		22.47	22.43	21.72
1.4	3	3		22.47	22.42	21.71
1.4	6	0		21.31	21.29	20.73



		LTE	Band 4 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.74	24.73	24.80
20	1	49		24.56	24.52	24.54
20	1	99		24.61	24.58	24.58
20	50	0	QPSK	23.76	23.74	23.74
20	50	24		23.78	23.75	23.67
20	50	50		23.73	23.67	23.68
20	100	0	Ī	23.76	23.79	23.66
20	1	0		24.08	24.05	24.04
20	1	49		23.92	23.86	23.87
20	1	99		23.97	23.89	23.85
20	50	0	16-QAM	22.75	22.77	22.74
20	50	24		22.79	22.77	22.69
20	50	50		22.73	22.69	22.71
20	100	0		22.76	22.78	22.67
20	1	0		22.90	22.93	22.65
20	1	49		22.81	22.78	22.80
20	1	99		22.82	22.56	22.84
20	50	0	64-QAM	21.78	21.79	21.76
20	50	24		21.81	21.78	21.70
20	50	50		21.74	21.63	21.71
20	100	0		21.82	21.78	21.71
15	1	0		24.76	24.76	24.76
15	1	37		24.59	24.58	24.59
15	1	74		24.61	24.60	24.58
15	36	0	QPSK	23.84	23.81	23.75
15	36	20		23.82	23.77	23.70
15	36	39		23.77	23.71	23.73
15	75	0		23.80	23.82	23.70
15	1	0		24.08	24.08	24.05
15	1	37		23.94	23.93	23.89
15	1	74		23.99	23.89	23.88
15	36	0	16-QAM	22.86	22.77	22.75
15	36	20		22.79	22.77	22.69
15	36	39		22.77	22.71	22.72
15	75	0		22.82	22.79	22.71
15	1	0		22.94	22.94	22.92
15	1	37		22.87	22.70	22.86
15	1	74		22.88	22.64	22.80
15	36	0	64-QAM	21.86	21.83	21.77
15	36	20		21.78	21.72	21.71
15	36	39		21.81	21.59	21.75
15	75	0		21.83	21.80	21.71



		LTE	Band 4 Maxi	mum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.72	24.65	24.67
10	1	25		24.65	24.64	24.60
10	1	49		24.72	24.68	24.64
10	25	0	QPSK	23.78	23.71	23.69
10	25	12		23.82	23.82	23.72
10	25	25		23.84	23.82	23.79
10	50	0		23.82	23.80	23.73
10	1	0		24.11	24.04	24.03
10	1	25		24.03	24.06	24.04
10	1	49		24.08	24.03	24.08
10	25	0	16-QAM	22.79	22.68	22.70
10	25	12		22.84	22.81	22.74
10	25	25		22.81	22.79	22.80
10	50	0		22.82	22.79	22.73
10	1	0		22.91	22.89	22.90
10	1	25		22.96	22.87	22.96
10	1	49		22.99	22.59	22.99
10	25	0	64-QAM	21.83	21.74	21.73
10	25	12		21.84	21.73	21.77
10	25	25		21.85	21.56	21.84
10	50	0		21.85	21.69	21.77
5	1	0		24.70	24.62	24.61
5	1	12		24.74	24.73	24.68
5	1	24		24.74	24.72	24.69
5	12	0	QPSK	23.78	23.71	23.74
5	12	7		23.86	23.81	23.78
5	12	13		23.80	23.77	23.74
5	25	0		23.80	23.77	23.75
5	1	0		24.03	23.93	24.00
5	1	12		24.08	24.01	24.02
5	1	24		24.06	24.04	24.04
5	12	0	16-QAM	22.83	22.74	22.80
5	12	7		22.87	22.84	22.81
5	12	13		22.86	22.84	22.81
5	25	0		22.81	22.81	22.77
5	1	0		22.88	22.88	22.99
5	1	12		23.00	22.85	22.93
5	1	24		23.05	22.64	22.95
5	12	0	64-QAM	21.86	21.75	21.85
5	12	7		21.92	21.77	21.87
5	12	13		21.89	21.63	21.81
5	25	0		21.84	21.65	21.77

		LTE	Band 4 Max	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		24.74	24.64	24.64
3	1	8		24.79	24.78	24.72
3	1	14		24.75	24.73	24.69
3	8	0	QPSK	23.79	23.72	23.73
3	8	4		23.83	23.80	23.78
3	8	7		23.80	23.79	23.75
3	15	0		23.82	23.81	23.73
3	1	0		24.05	23.95	23.99
3	1	8		24.16	24.08	24.06
3	1	14		24.05	24.00	24.02
3	8	0	16-QAM	22.88	22.80	22.80
3	8	4		22.93	22.88	22.84
3	8	7		22.89	22.82	22.79
3	15	0		22.86	22.82	22.78
3	1	0		22.91	22.83	22.91
3	1	8		23.10	22.84	23.00
3	1	14		23.07	22.70	22.95
3	8	0	64-QAM	21.88	21.75	21.81
3	8	4		21.92	21.74	21.85
3	8	7		21.90	21.65	21.81
3	15	0		21.88	21.72	21.80
1.4	1	0		24.62	24.61	24.59
1.4	1	3		24.72	24.68	24.62
1.4	1	5		24.64	24.60	24.55
1.4	3	0	QPSK	24.68	24.61	24.62
1.4	3	1		24.71	24.66	24.67
1.4	3	3		24.69	24.63	24.64
1.4	6	0		23.72	23.66	23.64
1.4	1	0		23.98	23.94	23.90
1.4	1	3		24.02	23.99	23.96
1.4	1	5		23.99	23.91	23.92
1.4	3	0	16-QAM	23.77	23.72	23.68
1.4	3	1		23.81	23.79	23.75
1.4	3	3		23.77	23.70	23.68
1.4	6	0		22.79	22.77	22.72
1.4	1	0		22.85	22.83	22.85
1.4	1	3		22.97	22.83	22.92
1.4	1	5		22.92	22.73	22.84
1.4	3	0	64-QAM	22.89	22.84	22.79
1.4	3	1		22.96	22.88	22.86
1.4	3	3		22.89	22.76	22.80
1.4	6	0		21.77	21.71	21.66

LTE Band 5 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.62	24.61	24.67	
10	1	25	QPSK	24.53	24.64	24.65	
10	1	49		24.66	24.69	24.64	
10	25	0		23.68	23.77	23.76	
10	25	12		23.77	23.76	23.77	
10	25	25		23.75	23.80	23.75	
10	50	0		23.78	23.73	23.76	
10	1	0		23.97	23.98	24.01	
10	1	25		23.95	24.02	24.05	
10	1	49		24.03	24.09	23.99	
10	25	0	16-QAM	22.67	22.76	22.76	
10	25	12		22.77	22.77	22.76	
10	25	25		22.74	22.77	22.84	
10	50	0		22.77	22.74	22.78	
10	1	0		22.83	22.81	22.87	
10	1	25		22.90	22.73	22.88	
10	1	49		22.94	22.60	22.10	
10	25	0	64-QAM	21.72	21.81	21.82	
10	25	12		21.81	21.80	21.80	
10	25	25		21.80	21.83	21.09	
10	50	0		21.83	21.78	21.52	
5	1	0		24.67	24.68	24.68	
5	1	12		24.64	24.67	24.41	
5	1	24	QPSK	24.58	24.67	24.44	
5	12	0		23.75	23.80	23.78	
5	12	7		23.75	23.80	23.52	
5	12	13		23.67	23.76	23.54	
5	25	0		23.71	23.74	23.66	
5	1	0		24.03	24.02	24.01	
5	1	12		23.91	24.01	23.73	
5	1	24		23.93	24.02	23.70	
5	12	0	16-QAM	22.81	22.81	22.80	
5	12	7		22.75	22.84	22.70	
5	12	13		22.73	22.77	22.69	
5	25	0		22.72	22.74	22.78	
5	1	0		22.94	22.97	22.50	
5	<u>·</u> 1	12	64-QAM	22.84	22.90	21.87	
5	1	24		22.85	22.81	21.89	
5	12	0		21.82	21.87	21.19	
5	12	7		21.79	21.86	20.82	
5	12	13		21.75	21.83	21.66	
5	25	0		21.75	21.78	20.89	



LTE Band 5 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
3	1	0		24.65	24.65	24.52	
3	1	8	QPSK	24.62	24.68	24.46	
3	1	14		24.55	24.64	24.49	
3	8	0		23.77	23.70	23.43	
3	8	4		23.72	23.77	23.49	
3	8	7		23.70	23.75	23.66	
3	15	0		23.71	23.74	23.48	
3	1	0		23.99	23.97	23.75	
3	1	8		23.98	24.07	23.71	
3	1	14		23.88	24.00	23.75	
3	8	0	16-QAM	22.82	22.83	22.58	
3	8	4		22.78	22.90	22.60	
3	8	7		22.75	22.80	22.72	
3	15	0		22.75	22.79	22.61	
3	1	0		22.87	22.92	21.89	
3	1	8		22.92	22.99	21.77	
3	1	14		22.85	22.90	21.76	
3	8	0	64-QAM	21.78	21.78	21.67	
3	8	4		21.80	21.86	21.68	
3	8	7		21.74	21.80	20.72	
3	15	0		21.74	21.78	20.77	
1.4	1	0	QPSK	24.56	24.59	24.49	
1.4	1	3		24.59	24.65	24.63	
1.4	1	5		24.50	24.60	24.55	
1.4	3	0		24.62	24.62	24.61	
1.4	3	1		24.62	24.63	24.64	
1.4	3	3		24.58	24.63	24.67	
1.4	6	0		23.65	23.74	23.70	
1.4	1	0		23.90	23.95	23.81	
1.4	1	3		23.89	24.04	23.98	
1.4	1	5		23.85	23.93	23.86	
1.4	3	0	16-QAM	23.69	23.70	23.63	
1.4	3	1		23.73	23.77	23.72	
1.4	3	3		23.66	23.72	23.67	
1.4	6	0		22.73	22.79	22.78	
1.4	1	0		22.84	22.86	21.76	
1.4	1	3	64-QAM	22.87	22.93	21.89	
1.4	1	5		22.79	22.85	21.90	
1.4	3	0		22.80	22.80	21.76	
1.4	3	1		22.84	22.85	21.89	
1.4	3	3		22.78	22.86	22.00	
1.4	6	0		21.68	21.74	21.67	



LTE Band 7 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
20	1	0		24.46	24.37	24.23	
20	1	49	QPSK	24.48	24.42	24.22	
20	1	99		24.58	24.46	24.25	
20	50	0		23.66	23.46	23.38	
20	50	24		23.69	23.50	23.38	
20	50	50		23.68	23.53	23.42	
20	100	0		23.67	23.51	23.40	
20	1	0		23.81	23.71	23.60	
20	1	49		23.85	23.78	23.56	
20	1	99		23.90	23.84	23.59	
20	50	0	16-QAM	22.65	22.47	22.40	
20	50	24		22.71	22.51	22.41	
20	50	50		22.68	22.54	22.40	
20	100	0		22.65	22.46	22.40	
20	1	0		22.66	22.57	22.50	
20	1	49		22.70	22.66	22.46	
20	1	99		22.78	22.66	22.45	
20	50	0	64-QAM	21.67	21.49	21.41	
20	50	24		21.71	21.53	21.43	
20	50	50		21.71	21.54	21.42	
20	100	0		21.69	21.51	21.41	
15	1	0		24.49	24.43	24.24	
15	1	37		24.51	24.41	24.17	
15	1	74	QPSK	24.57	24.49	24.27	
15	36	0		23.57	23.48	23.35	
15	36	20		23.67	23.52	23.36	
15	36	39		23.68	23.53	23.36	
15	75	0		23.66	23.49	23.36	
15	1	0		23.79	23.71	23.59	
15	1	37		23.83	23.74	23.53	
15	1	74		23.89	23.79	23.58	
15	36	0	16-QAM	22.55	22.48	22.36	
15	36	20		22.68	22.50	22.38	
15	36	39		22.69	22.51	22.37	
15	75	0		22.66	22.50	22.37	
15	1	0		22.69	22.57	22.47	
15	1	37	64-QAM	22.77	22.67	22.39	
15	1	74		22.80	22.64	22.48	
15	36	0		21.59	21.49	21.40	
15	36	20		21.70	21.56	21.38	
15	36	39		21.72	21.53	21.42	
15	75	0		21.68	21.51	21.39	



LTE Band 7 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.43	24.34	24.16	
10	1	25	-	24.43	24.35	24.07	
10	1	49		24.49	24.39	24.19	
10	25	0	QPSK	23.61	23.45	23.28	
10	25	12		23.64	23.49	23.31	
10	25	25		23.63	23.46	23.32	
10	50	0		23.63	23.47	23.31	
10	1	0		23.83	23.72	23.51	
10	1	25		23.82	23.76	23.50	
10	1	49		23.89	23.78	23.56	
10	25	0	16-QAM	22.61	22.44	22.29	
10	25	12		22.65	22.49	22.32	
10	25	25		22.63	22.45	22.30	
10	50	0		22.63	22.49	22.32	
10	1	0		22.74	22.58	22.44	
10	1	25		22.77	22.66	22.43	
10	1	49		22.79	22.62	22.45	
10	25	0	64-QAM	21.65	21.49	21.33	
10	25	12		21.70	21.54	21.35	
10	25	25		21.66	21.51	21.35	
10	50	0		21.67	21.51	21.36	
5	1	0		24.50	24.34	24.16	
5	<u>·</u> 1	12		24.49	24.45	24.23	
5	1	24	QPSK	24.53	24.44	24.19	
5	12	0		23.63	23.45	23.28	
5	12	7		23.67	23.56	23.28	
5	12	13		23.64	23.52	23.29	
5	25	0		23.63	23.48	23.30	
5	1	0		23.84	23.66	23.46	
5	1	12		23.85	23.74	23.49	
5	1	24		23.85	23.81	23.50	
5	12	0	16-QAM	22.67	22.50	22.31	
5	12	7		22.67	22.57	22.32	
5	12	13		22.63	22.54	22.31	
5	25	0		22.64	22.51	22.32	
5	1	0		22.77	22.59	22.40	
5	1	12		22.76	22.65	22.41	
5	1	24	64-QAM	22.79	22.70	22.42	
5	12	0		21.69	21.57	21.37	
5	12	7		21.68	21.61	21.38	
5	12	13		21.69	21.61	21.35	
5	25	0		21.66	21.54	21.34	

	LTE Band 12 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
10	1	0		24.36	24.28	24.30		
10	1	25		24.28	24.32	24.27		
10	1	49	QPSK	24.40	24.35	24.29		
10	25	0		23.43	23.41	23.41		
10	25	12		23.48	23.42	23.48		
10	25	25		23.47	23.48	23.45		
10	50	0		23.50	23.44	23.47		
10	1	0		23.73	23.65	23.69		
10	1	25		23.71	23.72	23.67		
10	1	49		23.81	23.72	23.67		
10	25	0	16-QAM	22.44	22.42	22.40		
10	25	12		22.51	22.41	22.46		
10	25	25		22.41	22.46	22.40		
10	50	0		22.51	22.40	22.49		
10	1	0		22.58	22.51	22.55		
10	1	25		22.63	22.65	22.63		
10	1	49		22.69	22.65	22.60		
10	25	0	64-QAM	21.45	21.45	21.44		
10	25	12		21.54	21.48	21.52		
10	25	25		21.49	21.50	21.46		
10	50	0		21.54	21.44	21.50		
5	1	0	QPSK	24.36	24.32	24.28		
5	<u>·</u> 1	12		24.35	24.39	24.36		
5	1	24		24.32	24.36	24.29		
5	12	0		23.45	23.42	23.41		
5	12	7		23.45	23.40	23.44		
5	12	13		23.41	23.44	23.39		
5	25	0		23.44	23.40	23.37		
5	1	0		23.71	23.69	23.61		
5	1	12		23.66	23.68	23.64		
5	1	24		23.67	23.69	23.63		
5	12	0	16-QAM	22.51	22.44	22.41		
5	12	7		22.48	22.41	22.44		
5	12	13	-	22.45	22.47	22.42		
5	25	0		22.44	22.44	22.37		
5	1	0		22.66	22.58	22.54		
5	1	12	64-QAM	22.60	22.59	22.57		
5	1	24		22.61	22.63	22.57		
5	12	0		21.56	21.51	21.44		
5	12	7		21.50	21.47	21.50		
5	12	13		21.50	21.49	21.46		
5	25	0		21.48	21.45	21.37		



LTE Band 12 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
3	1	0		24.39	24.37	24.31	
3	1	8		24.39	24.39	24.33	
3	1	14	QPSK	24.34	24.36	24.30	
3	8	0		23.46	23.39	23.37	
3	8	4		23.46	23.46	23.39	
3	8	7		23.41	23.39	23.35	
3	15	0		23.42	23.37	23.32	
3	1	0		23.74	23.66	23.62	
3	1	8		23.74	23.77	23.66	
3	1	14		23.70	23.70	23.63	
3	8	0	16-QAM	22.52	22.47	22.42	
3	8	4		22.51	22.54	22.46	
3	8	7		22.49	22.47	22.43	
3	15	0		22.46	22.40	22.35	
3	1	0		22.69	22.61	22.56	
3	1	8		22.68	22.68	22.64	
3	1	14		22.62	22.63	22.55	
3	8	0	64-QAM	21.55	21.45	21.43	
3	8	4		21.55	21.54	21.49	
3	8	7		21.47	21.48	21.43	
3	15	0		21.47	21.42	21.37	
1.4	1	0	QPSK	24.30	24.24	24.25	
1.4	1	3		24.34	24.33	24.25	
1.4	1	5		24.29	24.27	24.20	
1.4	3	0		24.35	24.26	24.24	
1.4	3	1		24.39	24.29	24.27	
1.4	3	3		24.30	24.30	24.21	
1.4	6	0		23.42	23.32	23.29	
1.4	1	0		23.64	23.60	23.57	
1.4	1	3		23.70	23.69	23.60	
1.4	1	5		23.60	23.61	23.52	
1.4	3	0	16-QAM	23.43	23.35	23.34	
1.4	3	1		23.49	23.39	23.38	
1.4	3	3	-	23.41	23.40	23.28	
1.4	6	0		22.47	22.39	22.36	
1.4	1	0		22.61	22.51	22.48	
1.4	1	3	64-QAM	22.64	22.60	22.51	
1.4	1	5		22.55	22.53	22.44	
1.4	3	0		22.57	22.48	22.45	
1.4	3	1		22.60	22.50	22.49	
1.4	3	3		22.51	22.53	22.45	
1.4	6	0		21.40	21.34	21.30	



LTE Band 13 Maximum Average Power [dBm] BW [MHz] **RB Size RB Offset** Mod Lowest Middle Highest 10 1 0 24.05 10 1 25 24.00 10 1 49 24.02 10 25 0 **QPSK** 23.06 10 25 12 23.11 10 25 25 23.10 10 50 0 23.12 10 1 0 23.30 10 1 25 23.34 10 1 49 23.30 10 25 0 16-QAM 22.10 10 25 12 22.12 10 25 25 22.11 10 50 0 22.11 10 1 0 23.05 10 1 25 23.07 10 49 23.05 1 10 25 0 64-QAM 22.08 10 25 12 22.04 10 25 25 22.02 10 50 0 22.01 5 23.95 1 0 23.96 23.94 5 1 12 23.99 24.04 24.02 5 24 1 24.04 23.99 24.01 12 QPSK 5 0 23.09 23.10 23.08 5 12 7 23.10 23.11 23.02 5 12 13 23.12 23.13 23.07 25 0 5 23.15 23.12 23.03 5 0 1 23.18 23.25 23.29 5 1 12 23.28 23.30 23.25 5 1 24 23.36 23.31 23.21 5 12 0 16-QAM 22.17 22.14 22.11 7 22.16 5 12 22.10 22.09 5 12 13 22.15 22.13 22.15 25 5 0 22.17 22.09 22.08 5 0 22.11 22.23 22.18 1 5 1 12 22.24 22.25 22.23 5 1 24 22.26 22.27 22.20 5 12 0 64-QAM 21.19 21.15 21.16 12 7 5 21.19 21.14 21.10 5 12 13 21.18 21.17 21.13 5 25 0 21.20 21.14 21.08



LTE Band 17 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	
10	1	0		24.77	24.69	24.64	
10	1	25		24.75	24.76	24.70	
10	1	49	QPSK	24.85	24.76	24.75	
10	25	0		23.76	23.76	23.76	
10	25	12		23.90	23.85	23.82	
10	25	25		23.92	23.91	23.89	
10	50	0		23.88	23.81	23.78	
10	1	0		24.14	24.08	24.04	
10	1	25		24.14	24.12	24.11	
10	1	49		24.15	24.13	24.11	
10	25	0	16-QAM	22.77	22.77	22.77	
10	25	12		22.93	22.84	22.83	
10	25	25		22.89	22.85	22.92	
10	50	0		22.91	22.81	22.80	
10	1	0		23.02	22.92	22.96	
10	1	25		23.06	23.06	23.03	
10	1	49		23.06	23.02	22.88	
10	25	0	64-QAM	21.82	21.80	21.80	
10	25	12		21.95	21.89	21.86	
10	25	25		21.94	21.94	21.92	
10	50	0		21.92	21.85	21.84	
5	1	0		24.69	24.71	24.70	
5	1	12	QPSK	24.81	24.82	24.74	
5	1	24		24.84	24.82	24.79	
5	12	0		23.81	23.85	23.80	
5	12	7		23.86	23.82	23.83	
5	12	13		23.87	23.88	23.83	
5	25	0		23.85	23.81	23.83	
5	1	0		24.07	24.05	24.04	
5	1	12		24.11	24.11	24.05	
5	1	24		24.17	24.16	24.09	
5	12	0	16-QAM	22.85	22.87	22.80	
5	12	7		22.89	22.90	22.90	
5	12	13		22.89	22.90	22.83	
5	25	0		22.88	22.84	22.87	
5	1	0		22.77	22.83	22.97	
5	1	12	64-QAM	23.01	23.06	23.00	
5	1	24		23.07	23.09	23.02	
5	12	0		21.90	21.92	21.88	
5	12	7		21.95	21.93	21.94	
5	12	13		21.94	21.94	21.87	
5	25	0		21.90	21.86	21.89	

		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		24.58	24.53	24.56
15	1	37		24.49	24.52	24.53
15	1	74	QPSK	24.56	24.78	24.50
15	36	0		23.66	23.67	23.66
15	36	20		23.70	23.66	23.66
15	36	39		23.66	23.69	23.66
15	75	0		23.69	23.65	23.67
15	1	0		23.91	23.87	23.92
15	1	37		23.85	23.88	23.90
15	1	74		23.88	23.91	23.81
15	36	0	16-QAM	22.68	22.70	22.69
15	36	20		22.68	22.65	22.66
15	36	39		22.67	22.72	22.71
15	75	0		22.72	22.67	22.68
15	1	0		22.77	22.70	22.72
15	1	37		22.74	22.82	22.81
15	1	74		22.78	22.80	22.18
15	36	0	64-QAM	21.68	21.73	21.74
15	36	20		21.71	21.69	21.69
15	36	39		21.70	21.80	21.80
15	75	0		21.72	21.68	21.73
10	1	0	QPSK	24.64	24.60	24.67
10	1	25		24.54	24.60	24.63
10	1	49		24.61	24.62	24.57
10	25	0		23.75	23.67	23.68
10	25	12		23.71	23.71	23.72
10	25	25		23.66	23.70	23.70
10	50	0		23.70	23.65	23.67
10	1	0		24.00	24.01	24.06
10	1	25		24.00	24.01	23.99
10	1	49		24.01	23.99	23.92
10	25	0	16-QAM	22.72	22.71	22.70
10	25	12		22.72	22.72	22.70
10	25	25		22.67	22.74	22.63
10	50	0		22.73	22.64	22.68
10	1	0		22.97	22.79	22.90
10	1	25	64-QAM	22.86	22.95	22.95
10	1	49		22.92	22.91	22.61
10	25	0		21.77	21.73	21.76
10	25	12		21.67	21.74	21.75
10	25	25		21.71	21.72	21.50
10	50	0		21.72	21.69	21.72



LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
5	1	0	MOC	24.77	24.62	24.66		
5	1	12		24.70	24.69	24.63		
5	1	24	QPSK	24.57	24.70	24.61		
5	12	0		23.79	23.71	23.76		
5	12	7		23.78	23.77	23.70		
5	12	13		23.71	23.72	23.61		
5	25	0		23.73	23.68	23.70		
5	1	0		24.08	23.94	24.00		
5	1	12		23.98	23.97	23.86		
5	1	24		23.92	24.01	23.86		
5	12	0	16-QAM	22.85	22.76	22.75		
5	12	7		22.77	22.77	22.73		
5	12	13		22.75	22.72	22.65		
5	25	0		22.76	22.69	22.71		
5	1	0		22.97	22.86	22.91		
5	1	12		22.88	22.88	22.22		
5	1	24		22.73	22.87	22.32		
5	12	0	64-QAM	21.88	21.82	21.61		
5	12	7		21.87	21.84	21.20		
5	12	13		21.77	21.79	21.07		
5	25	0		21.81	21.71	21.31		
3	1	0		24.73	24.64	24.66		
3	1	8	QPSK	24.75	24.72	24.65		
3	1	14		24.60	24.68	24.60		
3	8	0		23.79	23.71	23.72		
3	8	4		23.79	23.79	23.70		
3	8	7		23.74	23.71	23.63		
3	15	0		23.75	23.71	23.68		
3	1	0		24.08	23.96	23.98		
3	1	8		24.10	24.03	23.94		
3	1	14		23.95	24.01	23.88		
3	8	0	16-QAM	22.85	22.78	22.74		
3	8	4		22.85	22.84	22.74		
3	8	7		22.79	22.78	22.68		
3	15	0		22.83	22.72	22.67		
3	1	0		22.94	22.86	22.29		
3	1	8	64-QAM	22.99	22.93	22.12		
3	1	14		22.85	22.89	22.26		
3	8	0		21.89	21.79	21.07		
3	8	4		21.89	21.86	21.07		
3	8	7		21.84	21.83	21.18		
3	15	0		21.84	21.74	21.16		



LTE Band 26 Maximum Average Power [dBm] BW [MHz] RB Size RB Offset Mod Lowest Middle Highest 1.4 1 0 24.67 24.57 24.52 1.4 1 3 24.73 24.68 24.57 1.4 1 5 24.61 24.56 24.44 1.4 3 0 **QPSK** 24.52 24.69 24.58 1.4 3 1 24.71 24.60 24.57 1.4 3 3 24.64 24.59 24.51 1.4 6 0 23.71 23.67 23.58 1.4 1 0 23.99 23.88 23.83 1.4 1 3 24.04 24.00 23.87 1.4 1 5 23.93 23.91 23.77 1.4 3 0 16-QAM 23.74 23.60 23.65 1.4 3 23.78 1 23.71 23.65 1.4 3 3 23.72 23.57 23.65 1.4 6 0 22.81 22.81 22.68 1.4 1 0 22.88 22.77 22.20 1.4 22.95 22.37 1 3 22.91 1.4 5 1 22.82 22.79 22.40 1.4 3 0 64-QAM 22.89 22.78 22.16 1.4 3 1 22.93 22.83 22.25 1.4 3 3 22.84 22.78 22.36 1.4 6 0 21.75 21.70 21.19



		LTE	Band 38 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.42	24.28	24.28
20	1	49		24.27	24.23	24.25
20	1	99		24.24	24.22	24.24
20	50	0	QPSK	23.49	23.37	23.35
20	50	24		23.47	23.45	23.41
20	50	50		23.43	23.40	23.38
20	100	0		23.48	23.42	23.35
20	1	0		23.43	23.41	23.42
20	1	49		23.36	23.34	23.33
20	1	99		23.37	23.33	23.34
20	50	0	16-QAM	22.53	22.42	22.39
20	50	24		22.51	22.49	22.44
20	50	50		22.48	22.44	22.41
20	100	0		22.49	22.45	22.35
20	1	0		22.14	22.11	22.10
20	1	49		22.07	22.04	22.09
20	1	99		22.09	22.11	22.08
20	50	0	64-QAM	21.52	21.43	21.40
20	50	24		21.50	21.47	21.45
20	50	50		21.48	21.45	21.42
20	100	0		21.50	21.47	21.36
15	1	0		24.32	24.29	24.29
15	1	37		24.26	24.25	24.20
15	1	74		24.29	24.25	24.18
15	36	0	QPSK	23.53	23.39	23.38
15	36	20		23.51	23.46	23.40
15	36	39		23.46	23.43	23.38
15	75	0		23.50	23.45	23.35
15	1	0		23.48	23.43	23.40
15	1	37		23.34	23.31	23.27
15	1	74		23.44	23.39	23.35
15	36	0	16-QAM	22.50	22.37	22.36
15	36	20		22.46	22.42	22.40
15	36	39		22.45	22.40	22.36
15	75	0		22.52	22.47	22.37
15	1	0		22.16	22.06	22.06
15	1	37		22.20	22.12	22.11
15	1	74		22.17	22.13	22.09
15	36	0	64-QAM	21.55	21.44	21.39
15	36	20		21.51	21.49	21.43
15	36	39		21.50	21.46	21.42
15	75	0		21.54	21.46	21.36

		LTE	Band 38 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.41	24.35	24.36
10	1	25		24.33	24.24	24.20
10	1	49		24.33	24.36	24.30
10	25	0	QPSK	23.52	23.36	23.32
10	25	12		23.51	23.47	23.34
10	25	25		23.49	23.47	23.41
10	50	0		23.49	23.45	23.33
10	1	0		23.58	23.52	23.43
10	1	25		23.50	23.42	23.41
10	1	49		23.52	23.40	23.40
10	25	0	16-QAM	22.50	22.38	22.34
10	25	12		22.50	22.49	22.34
10	25	25		22.46	22.42	22.39
10	50	0		22.55	22.47	22.37
10	1	0		22.46	22.33	22.30
10	1	25		22.24	22.18	22.14
10	1	49		22.16	22.10	22.05
10	25	0	64-QAM	21.61	21.47	21.43
10	25	12		21.61	21.53	21.43
10	25	25		21.59	21.54	21.47
10	50	0		21.55	21.49	21.39
5	1	0		24.41	24.30	24.30
5	1	12		24.35	24.28	24.30
5	1	24		24.33	24.32	24.29
5	12	0	QPSK	23.50	23.39	23.39
5	12	7		23.52	23.43	23.41
5	12	13		23.47	23.45	23.40
5	25	0		23.51	23.44	23.39
5	1	0		23.54	23.42	23.44
5	1	12		23.51	23.46	23.44
5	1	24		23.53	23.50	23.44
5	12	0	16-QAM	22.49	22.36	22.38
5	12	7		22.50	22.46	22.42
5	12	13		22.45	22.42	22.37
5	25	0		22.51	22.46	22.41
5	1	0		22.29	22.14	22.21
5	1	12		22.27	22.24	22.19
5	1	24		22.27	22.25	22.19
5	12	0	64-QAM	21.52	21.41	21.45
5	12	7		21.53	21.52	21.45
5	12	13		21.52	21.48	21.44
5	25	0		21.54	21.49	21.47

		LTE	Band 41 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.60	24.27	24.40
20	1	49		24.49	24.14	24.72
20	1	99		24.44	24.21	24.58
20	50	0	QPSK	23.70	23.25	23.72
20	50	24		23.67	23.32	23.83
20	50	50		23.62	23.28	23.79
20	100	0		23.68	23.31	23.76
20	1	0		23.76	23.36	23.51
20	1	49		23.59	23.24	23.83
20	1	99		23.56	23.31	23.70
20	50	0	16-QAM	22.73	22.28	22.75
20	50	24		22.71	22.35	22.86
20	50	50		22.67	22.32	22.79
20	100	0		22.69	22.32	22.77
20	1	0		22.50	21.99	22.21
20	1	49		22.36	22.01	22.63
20	1	99		22.27	22.04	22.42
20	50	0	64-QAM	21.75	21.30	21.73
20	50	24		21.73	21.34	21.88
20	50	50		21.66	21.33	21.81
20	100	0		21.71	21.34	21.79
15	1	0		24.62	24.21	24.56
15	1	37		24.54	24.13	24.69
15	1	74		24.48	24.25	24.67
15	36	0	QPSK	23.73	23.26	23.75
15	36	20		23.70	23.32	23.86
15	36	39		23.66	23.30	23.80
15	75	0		23.71	23.32	23.77
15	1	0		23.78	23.37	23.66
15	1	37		23.58	23.23	23.84
15	1	74		23.62	23.38	23.81
15	36	0	16-QAM	22.71	22.26	22.73
15	36	20		22.67	22.29	22.81
15	36	39		22.65	22.27	22.77
15	75	0		22.74	22.34	22.83
15	1	0		22.53	21.99	22.32
15	1	37		22.42	22.03	22.61
15	1	74		22.28	22.09	22.58
15	36	0	64-QAM	21.75	21.31	21.79
15	36	20		21.72	21.34	21.88
15	36	39		21.71	21.34	21.83
15	75	0		21.76	21.36	21.81

		LTE	Band 41 Ma	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.57	24.11	24.48
10	1	25		24.44	24.07	24.61
10	1	49		24.38	24.20	24.61
10	25	0	QPSK	23.73	23.26	23.71
10	25	12		23.61	23.24	23.77
10	25	25		23.65	23.21	23.72
10	50	0		23.66	23.27	23.74
10	1	0		23.77	23.29	23.59
10	1	25		23.52	23.15	23.77
10	1	49		23.62	23.35	23.81
10	25	0	16-QAM	22.61	22.16	22.67
10	25	12		22.67	22.26	22.81
10	25	25		22.55	22.20	22.72
10	50	0		22.65	22.34	22.79
10	1	0		22.49	21.94	22.30
10	1	25		22.33	21.97	22.53
10	1	49		22.20	22.05	22.58
10	25	0	64-QAM	21.67	21.25	21.73
10	25	12		21.64	21.24	21.87
10	25	25		21.66	21.34	21.80
10	50	0		21.75	21.27	21.75
5	1	0		24.72	24.18	24.77
5	1	12		24.67	24.23	24.72
5	1	24		24.63	24.21	24.65
5	12	0	QPSK	23.79	23.37	23.88
5	12	7		23.80	23.40	23.90
5	12	13		23.78	23.36	23.82
5	25	0		23.76	23.37	23.84
5	1	0		23.81	23.32	23.91
5	1	12		23.84	23.45	23.93
5	1	24		23.85	23.41	23.81
5	12	0	16-QAM	22.77	22.33	22.85
5	12	7		22.80	22.36	22.83
5	12	13		22.77	22.37	22.84
5	25	0		22.83	22.42	22.89
5	1	0		22.60	22.08	22.62
5	1	12		22.57	22.17	22.66
5	1	24		22.59	22.15	22.60
5	12	0	64-QAM	21.84	21.39	21.89
5	12	7		21.85	21.44	21.89
5	12	13		21.84	21.42	21.90
5	25	0		21.83	21.42	21.92



CC RADIO TEST REPORT

Report No. : FG022521-02B

LTE Band 41 (HPUE) Maximum Average Power [dBm]

		LTE Bar	nd 41 (HPUE)	Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		26.37	26.03	26.26
20	1	49		26.24	25.90	26.57
20	1	99		26.19	25.98	26.46
20	50	0	QPSK	25.58	25.13	25.65
20	50	24		25.54	25.19	25.76
20	50	50		25.49	25.17	25.72
20	100	0		25.55	25.21	25.70
20	1	0		25.79	25.34	25.62
20	1	49		25.63	25.24	25.97
20	1	99		25.53	25.33	25.75
20	50	0	16-QAM	24.59	24.16	24.68
20	50	24		24.61	24.22	24.79
20	50	50		24.52	24.20	24.74
20	100	0		24.59	24.21	24.72
20	1	0		24.62	24.13	24.44
20	1	49		24.44	24.11	24.83
20	1	99		24.37	24.17	24.65
20	50	0	64-QAM	23.60	23.17	23.70
20	50	24		23.59	23.25	23.81
20	50	50		23.54	23.21	23.76
20	100	0		23.59	23.24	23.72
15	1	0		26.43	26.02	26.42
15	1	37		26.35	25.97	26.56
15	1	74		26.26	26.01	26.53
15	36	0	QPSK	25.55	25.12	25.66
15	36	20		25.54	25.17	25.74
15	36	39		25.47	25.14	25.70
15	75	0		25.56	25.18	25.68
15	1	0		25.71	25.27	25.74
15	1	37		25.58	25.20	25.87
15	1	74		25.59	25.31	25.82
15	36	0	16-QAM	24.52	24.07	24.64
15	36	20		24.51	24.13	24.73
15	36	39		24.46	24.13	24.71
15	75	0		24.55	24.20	24.72
15	1	0		24.59	24.08	24.55
15	1	37		24.51	24.07	24.79
15	1	74		24.40	24.20	24.74
15	36	0	64-QAM	23.56	23.13	23.71
15	36	20		23.57	23.18	23.76
15	36	39		23.52	23.18	23.76
15	75	0		23.57	23.19	23.72



		LTE Bar	nd 41 (HPUE)	) Maximum Averag	e Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		26.33	26.01	26.35
10	1	25		26.35	25.93	26.56
10	1	49		26.25	25.96	26.49
10	25	0	QPSK	25.51	25.10	25.59
10	25	12		25.54	25.08	25.66
10	25	25		25.42	25.12	25.70
10	50	0		25.48	25.14	25.63
10	1	0		25.68	25.19	25.70
10	1	25		25.49	25.19	25.78
10	1	49		25.57	25.28	25.80
10	25	0	16-QAM	24.51	24.03	24.57
10	25	12		24.45	24.12	24.73
10	25	25		24.42	24.04	24.63
10	50	0		24.49	24.18	24.64
10	1	0		24.55	23.98	24.47
10	1	25		24.51	24.02	24.76
10	1	49		24.36	24.19	24.66
10	25	0	64-QAM	23.50	23.03	23.61
10	25	12		23.49	23.17	23.75
10	25	25		23.43	23.13	23.66
10	50	0		23.54	23.10	23.67
5	1	0		26.35	25.94	26.37
5	1	12		26.31	25.97	26.50
5	1	24		26.16	25.94	26.48
5	12	0	QPSK	25.50	25.10	25.58
5	12	7		25.48	25.17	25.72
5	12	13		25.40	25.11	25.66
5	25	0		25.47	25.16	25.64
5	1	0		25.71	25.17	25.65
5	1	12		25.52	25.12	25.86
5	1	24		25.50	25.30	25.77
5	12	0	16-QAM	24.45	24.04	24.61
5	12	7		24.43	24.06	24.69
5	12	13		24.43	24.04	24.65
5	25	0		24.48	24.19	24.70
5	1	0		24.57	24.08	24.45
5	1	12		24.45	23.97	24.71
5	1	24		24.35	24.16	24.72
5	12	0	64-QAM	23.49	23.06	23.63
5	12	7		23.56	23.18	23.76
5	12	13		23.49	23.10	23.68
5	25	0		23.54	23.14	23.63



		LTE	Band 66 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.78	24.77	24.71
20	1	49		24.64	24.61	24.59
20	1	99		24.70	24.75	24.56
20	50	0	QPSK	23.62	23.57	23.58
20	50	24		23.66	23.54	23.62
20	50	50		23.62	23.58	23.58
20	100	0		23.67	23.59	23.64
20	1	0		23.91	23.89	23.84
20	1	49		23.79	23.72	23.71
20	1	99		23.88	23.75	23.68
20	50	0	16-QAM	22.59	22.57	22.61
20	50	24		22.66	22.55	22.62
20	50	50		22.66	22.59	22.59
20	100	0		22.65	22.62	22.65
20	1	0		22.76	22.77	22.69
20	1	49		22.63	22.64	22.63
20	1	99		22.73	22.74	22.60
20	50	0	64-QAM	21.62	21.60	21.62
20	50	24		21.70	21.57	21.65
20	50	50		21.67	21.62	21.60
20	100	0		21.70	21.63	21.63
15	1	0		24.58	24.53	24.48
15	1	37		24.46	24.40	24.41
15	1	74		24.57	24.51	24.41
15	36	0	QPSK	23.59	23.56	23.59
15	36	20		23.66	23.61	23.64
15	36	39		23.65	23.60	23.59
15	75	0		23.66	23.62	23.55
15	1	0		23.84	23.82	23.84
15	1	37		23.78	23.73	23.75
15	1	74		23.88	23.79	23.72
15	36	0	16-QAM	22.60	22.55	22.58
15	36	20		22.66	22.61	22.59
15	36	39		22.66	22.59	22.61
15	75	0		22.67	22.64	22.54
15	1	0		22.76	22.72	22.67
15	1	37		22.73	22.69	22.63
15	1	74		22.77	22.72	22.62
15	36	0	64-QAM	21.61	21.61	21.63
15	36	20		21.65	21.60	21.62
15	36	39		21.70	21.63	21.60
15	75	0		21.68	21.62	21.57



		LTE	Band 66 Ma	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		24.60	24.54	24.56
10	1	25		24.58	24.49	24.52
10	1	49		24.59	24.50	24.53
10	25	0	QPSK	23.70	23.57	23.57
10	25	12		23.71	23.66	23.60
10	25	25		23.69	23.65	23.66
10	50	0		23.72	23.67	23.59
10	1	0		24.00	23.94	23.92
10	1	25		23.95	23.92	23.92
10	1	49		23.98	23.88	23.89
10	25	0	16-QAM	22.70	22.60	22.58
10	25	12		22.73	22.67	22.62
10	25	25		22.68	22.61	22.64
10	50	0		22.72	22.64	22.59
10	1	0		22.88	22.79	22.80
10	1	25		22.87	22.82	22.85
10	1	49		22.84	22.81	22.81
10	25	0	64-QAM	21.72	21.62	21.62
10	25	12		21.76	21.70	21.64
10	25	25		21.73	21.64	21.69
10	50	0		21.75	21.68	21.63
5	1	0		24.63	24.51	24.58
5	1	12		24.66	24.58	24.61
5	1	24		24.60	24.57	24.55
5	12	0	QPSK	23.71	23.59	23.67
5	12	7		23.74	23.70	23.72
5	12	13		23.71	23.65	23.67
5	25	0		23.71	23.63	23.64
5	1	0		23.96	23.85	23.91
5	1	12		23.99	23.94	23.92
5	1	24		23.96	23.89	23.89
5	12	0	16-QAM	22.77	22.66	22.70
5	12	7		22.79	22.69	22.71
5	12	13		22.73	22.70	22.68
5	25	0		22.72	22.69	22.67
5	1	0		22.86	22.80	22.83
5	1	12		22.94	22.83	22.85
5	1	24		22.89	22.84	22.81
5	12	0	64-QAM	21.80	21.67	21.73
5	12	7		21.79	21.76	21.76
5	12	13		21.76	21.69	21.74
5	25	0		21.72	21.68	21.66



	LTE Band 66 Maximum Average Power [dBm]										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest					
3	1	0		24.64	24.54	24.58					
3	1	8		24.69	24.65	24.64					
3	1	14		24.65	24.58	24.59					
3	8	0	QPSK	23.72	23.62	23.68					
3	8	4		23.73	23.70	23.69					
3	8	7		23.71	23.64	23.62					
3	15	0		23.71	23.67	23.63					
3	1	0		23.97	23.83	23.87					
3	1	8		24.04	24.00	23.99					
3	1	14		23.94	23.91	23.88					
3	8	0	16-QAM	22.78	22.69	22.72					
3	8	4		22.82	22.72	22.73					
3	8	7		22.79	22.72	22.70					
3	15	0		22.75	22.66	22.69					
3	1	0		22.91	22.79	22.81					
3	1	8		22.99	22.92	22.91					
3	1	14		22.95	22.86	22.82					
3	8	0	64-QAM	21.79	21.66	21.75					
3	8	4		21.80	21.75	21.76					
3	8	7		21.74	21.72	21.69					
3	15	0		21.74	21.66	21.69					
1.4	1	0		24.56	24.48	24.50					
1.4	1	3		24.57	24.51	24.57					
1.4	1	5		24.53	24.48	24.50					
1.4	3	0	QPSK	24.60	24.54	24.51					
1.4	3	1		24.63	24.58	24.55					
1.4	3	3		24.56	24.51	24.50					
1.4	6	0		23.62	23.55	23.59					
1.4	1	0		23.87	23.83	23.82					
1.4	1	3		23.95	23.89	23.89					
1.4	1	5		23.86	23.81	23.78					
1.4	3	0	16-QAM	23.69	23.63	23.62					
1.4	3	1		23.71	23.65	23.63					
1.4	3	3		23.65	23.60	23.57					
1.4	6	0		22.69	22.63	22.66					
1.4	1	0		22.82	22.76	22.78					
1.4	<u>·</u> 1	3		22.88	22.85	22.83					
1.4	1	5		22.81	22.75	22.73					
1.4	3	0	64-QAM	22.78	22.72	22.74					
1.4	3	1		22.82	22.78	22.78					
1.4	3	3		22.76	22.69	22.75					
1.4	6	0		21.67	21.59	21.59					

		LTE	Band 71 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0		24.77	24.65	24.66
20	1	49		24.61	24.63	24.60
20	1	99		24.64	24.61	24.56
20	50	0	QPSK	23.80	23.72	23.74
20	50	24		23.83	23.75	23.70
20	50	50		23.82	23.76	23.71
20	100	0		23.81	23.72	23.76
20	1	0		24.08	24.00	24.00
20	1	49		23.97	23.94	23.94
20	1	99		23.97	23.92	23.89
20	50	0	16-QAM	22.80	22.73	22.75
20	50	24		22.82	22.74	22.72
20	50	50		22.79	22.76	22.72
20	100	0		22.81	22.70	22.78
20	1	0		22.14	22.65	22.86
20	1	49		22.64	22.85	22.15
20	1	99		22.85	22.34	22.79
20	50	0	64-QAM	20.83	21.73	21.42
20	50	24		21.26	21.74	21.57
20	50	50		21.82	21.38	21.75
20	100	0		21.41	21.75	21.80
15	1	0		24.76	24.66	24.65
15	1	37		24.57	24.58	24.58
15	1	74		24.60	24.59	24.55
15	36	0	QPSK	23.74	23.71	23.71
15	36	20		23.78	23.72	23.76
15	36	39		23.78	23.73	23.69
15	75	0		23.77	23.71	23.66
15	1	0		24.05	24.00	23.94
15	1	37		23.79	23.96	23.91
15	1	74		23.89	23.93	23.88
15	36	0	16-QAM	22.67	22.72	22.70
15	36	20		22.73	22.72	22.75
15	36	39		22.78	22.73	22.72
15	75	0		22.80	22.69	22.67
15	1	0		21.98	22.78	22.77
15	1	37		21.71	22.88	22.85
15	1	74		22.79	22.58	22.81
15	36	0	64-QAM	20.76	21.74	21.35
15	36	20		20.76	21.76	21.78
15	36	39		21.33	21.33	21.76
15	75	0		21.23	21.72	21.67



	LTE Band 71 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
10	1	0		24.69	24.59	24.64				
10	1	25		24.54	24.52	24.52				
10	1	49		24.57	24.61	24.50				
10	25	0	QPSK	23.75	23.67	23.65				
10	25	12		23.74	23.77	23.63				
10	25	25		23.65	23.72	23.68				
10	50	0		23.76	23.75	23.65				
10	1	0		24.05	23.96	24.02				
10	1	25		23.94	23.95	23.94				
10	1	49		23.94	23.99	23.86				
10	25	0	16-QAM	22.62	22.67	22.64				
10	25	12		22.61	22.76	22.65				
10	25	25		22.53	22.71	22.65				
10	50	0		22.74	22.75	22.62				
10	1	0		21.92	22.22	22.83				
10	1	25		21.85	22.86	22.85				
10	1	49		21.99	22.88	22.46				
10	25	0	64-QAM	20.70	21.68	21.69				
10	25	12		20.71	21.78	21.69				
10	25	25		20.72	21.75	21.67				
10	50	0		20.71	21.73	21.65				
5	1	0		24.43	24.62	24.62				
5	1	12		24.65	24.59	24.59				
5	1	24		24.56	24.58	24.54				
5	12	0	QPSK	23.66	23.70	23.65				
5	12	7		23.68	23.72	23.68				
5	12	13		23.70	23.70	23.61				
5	25	0		23.67	23.69	23.61				
5	1	0		23.83	23.95	23.93				
5	1	12		23.88	23.93	23.89				
5	1	24		23.85	23.91	23.83				
5	12	0	16-QAM	22.51	22.75	22.73				
5	12	7		22.66	22.76	22.71				
5	12	13		22.73	22.70	22.63				
5	25	0		22.58	22.74	22.62				
5	1	0		21.70	21.90	22.87				
5	1	12		21.71	22.90	22.78				
5	1	24		21.85	22.88	22.23				
5	12	0	64-QAM	20.72	21.54	21.72				
5	12	7		20.83	21.77	21.75				
5	12	13		20.78	21.74	21.61				
5	25	0		20.64	21.51	21.57				

		LTE	Band 5_C	A Maximur	n Average F	Power [dBm]		
D)A/ [A/I I - 1	P	CC		CC				
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10+10	50	0	50	0		23.88	23.95	23.42
10+10	1	0	1	49	QPSK	11.00	10.90	11.14
10+10	1	49	1	0		25.53	25.27	25.08
10+10	50	0	50	0		23.08	23.03	23.15
10+10	1	0	1	49	16-QAM	11.24	11.68	11.75
10+10	1	49	1	0		25.34	24.72	24.47
10+10	50	0	50	0		22.14	22.32	22.11
10+10	1	0	1	49	64-QAM	11.02	11.65	11.31
10+10	1	49	1	0		22.84	22.13	21.61
10+5	50	0	25	0		24.12	23.83	23.57
10+5	1	0	1	24	QPSK	10.85	10.85	11.24
10+5	1	49	1	0		25.48	25.48	25.09
10+5	50	0	25	0		23.16	23.17	22.88
10+5	1	0	1	24	16-QAM	11.43	11.55	11.73
10+5	1	49	1	0		25.24	24.61	24.42
10+5	50	0	25	0		22.19	22.27	22.06
10+5	1	0	1	24	64-QAM	11.22	11.66	11.20
10+5	1	49	1	0		22.98	22.17	21.62
5+10	25	0	50	0		24.12	24.18	23.46
5+10	1	0	1	49	QPSK	10.87	10.96	11.07
5+10	1	24	1	0		25.43	25.22	25.21
5+10	25	0	50	0		22.88	23.17	23.19
5+10	1	0	1	49	16-QAM	11.55	11.58	11.42
5+10	1	24	1	0		25.45	24.66	24.73
5+10	25	0	50	0		21.97	22.13	21.95
5+10	1	0	1	49	64-QAM	10.96	11.48	11.16
5+10	1	24	1	0		22.88	21.86	21.75



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	LTE Band 66B_CA Maximum Average Power [dBm]										
	P	CC	S	CC							
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
10+10	50	0	50	0		23.40	23.73	22.73			
10+10	1	0	1	49	QPSK	15.63	15.39	15.55			
10+10	1	49	1	0		25.59	25.67	24.09			
10+10	50	0	50	0		22.67	22.63	22.04			
10+10	1	0	1	49	16-QAM	16.01	15.48	15.86			
10+10	1	49	1	0		25.02	25.16	23.54			
10+10	50	0	50	0		21.43	21.89	20.88			
10+10	1	0	1	49	64-QAM	15.68	15.76	15.89			
10+10	1	49	1	0		22.51	22.93	20.49			
15+5	75	0	25	0		23.37	23.84	22.90			
15+5	1	0	1	24	QPSK	15.59	15.44	15.27			
15+5	1	74	1	0	•	25.52	25.39	24.33			
15+5	75	0	25	0		22.33	22.90	21.89			
15+5	1	0	1	24	16-QAM	15.69	15.83	16.06			
15+5	1	74	1	0		24.96	25.08	23.58			
15+5	75	0	25	0		21.65	21.91	20.54			
15+5	1	0	1	24	64-QAM	15.82	15.66	15.93			
15+5	1	74	1	0		22.17	22.83	20.60			
5+15	25	0	75	0		23.56	23.74	22.79			
5+15	1	0	1	74	QPSK	15.62	15.08	15.62			
5+15	1	24	1	0		25.63	25.48	24.09			
5+15	25	0	75	0		22.32	22.81	22.01			
5+15	1	0	1	74	16-QAM	15.92	15.81	16.00			
5+15	1	24	1	0		25.25	24.79	23.60			
5+15	25	0	75	0		21.67	22.04	20.57			
5+15	1	0	1	74	64-QAM	15.73	15.69	15.90			
5+15	1	24	1	0		22.18	22.78	20.29			



	LTE Band 66B_CA Maximum Average Power [dBm]										
	P	CC		CC		-					
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
10+5	50	0	25	0		23.37	23.71	22.61			
10+5	1	0	1	24	QPSK	15.65	15.18	15.46			
10+5	1	49	1	0		25.66	25.45	24.25			
10+5	50	0	25	0		22.38	22.58	21.69			
10+5	1	0	1	24	16-QAM	15.64	15.46	15.93			
10+5	1	49	1	0		24.93	25.00	23.63			
10+5	50	0	25	0		21.83	22.05	20.72			
10+5	1	0	1	24	64-QAM	15.56	15.66	15.64			
10+5	1	49	1	0		22.51	22.97	20.37			
5+10	25	0	50	0		23.43	23.81	22.66			
5+10	1	0	1	49	QPSK	15.80	15.33	15.42			
5+10	1	24	1	0		25.53	25.66	24.05			
5+10	25	0	50	0		22.58	22.75	22.00			
5+10	1	0	1	49	16-QAM	15.99	15.78	15.91			
5+10	1	24	1	0		24.97	24.94	23.65			
5+10	25	0	50	0		21.44	21.65	20.75			
5+10	1	0	1	49	64-QAM	15.48	15.77	15.91			
5+10	1	24	1	0		22.13	22.84	20.58			
5+5	25	0	25	0		23.63	23.71	22.79			
5+5	1	0	1	24	QPSK	15.74	15.34	15.37			
5+5	1	24	1	0		25.57	25.42	23.97			
5+5	25	0	25	0		22.34	22.88	21.66			
5+5	1	0	1	24	16-QAM	15.66	15.83	15.98			
5+5	1	24	1	0		25.18	24.98	23.45			
5+5	25	0	25	0		21.73	21.80	20.62			
5+5	1	0	1	24	64-QAM	15.73	15.48	15.90			
5+5	1	24	1	0		22.26	22.83	20.66			



	LTE Band 66C_CA Maximum Average Power [dBm]										
DIA/ PAUL 1	P	CC	S	CC	M						
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
20+20	100	0	100	0		23.07	22.90	23.25			
20+20	1	0	1	99	QPSK	16.89	16.93	17.35			
20+20	1	99	1	0		25.37	25.53	25.34			
20+20	100	0	100	0		22.27	21.78	22.15			
20+20	1	0	1	99	16-QAM	17.10	17.33	16.63			
20+20	1	99	1	0		24.68	24.32	24.97			
20+20	100	0	100	0		21.36	21.16	21.69			
20+20	1	0	1	99	64-QAM	17.27	16.90	17.01			
20+20	1	99	1	0		22.24	23.26	23.20			
20+15	100	0	75	0		22.93	23.05	23.50			
20+15	1	0	1	74	QPSK	16.96	16.77	17.54			
20+15	1	74	1	0		25.46	25.59	25.13			
20+15	100	0	75	0		22.38	21.80	21.99			
20+15	1	0	1	74	16-QAM	17.42	17.55	16.27			
20+15	1	74	1	0		24.49	24.66	24.89			
20+15	100	0	75	0		21.49	21.45	21.91			
20+15	1	0	1	74	64-QAM	17.05	16.89	17.07			
20+15	1	74	1	0		22.16	23.19	23.46			
15+20	75	0	100	0		23.10	23.09	23.17			
15+20	1	0	1	99	QPSK	16.56	16.85	17.21			
15+20	1	74	1	0		25.62	25.60	25.21			
15+20	75	0	100	0		22.53	22.09	22.02			
15+20	1	0	1	99	16-QAM	17.11	17.33	16.52			
15+20	1	74	1	0		24.45	24.66	24.79			
15+20	75	0	100	0		21.49	21.34	21.77			
15+20	1	0	1	99	64-QAM	17.10	16.63	16.73			
15+20	1	74	1	0		22.28	23.18	23.13			



		LTE B	and 66C (	CA Maximu	ım Average	Power [dBm	1]	
	P	CC		CC		-		
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	50	0		23.06	23.02	23.18
20+10	1	0	1	49	QPSK	16.80	16.67	17.54
20+10	1	99	1	0		25.38	25.46	25.41
20+10	100	0	50	0		22.31	21.79	22.15
20+10	1	0	1	49	16-QAM	17.42	17.52	16.39
20+10	1	99	1	0		24.74	24.52	24.70
20+10	100	0	50	0		21.43	21.47	21.94
20+10	1	0	1	49	64-QAM	17.10	16.81	16.94
20+10	1	99	1	0		22.44	23.22	23.28
10+20	50	0	100	0		22.98	22.88	23.38
10+20	1	0	1	99	QPSK	16.63	16.78	17.40
10+20	1	49	1	0		25.58	25.42	25.44
10+20	50	0	100	0		22.48	21.83	22.25
10+20	1	0	1	99	16-QAM	17.33	17.64	16.26
10+20	1	49	1	0		24.75	24.60	24.76
10+20	50	0	100	0		21.37	21.45	21.68
10+20	1	0	1	99	64-QAM	17.36	16.66	16.82
10+20	1	49	1	0		22.44	23.29	23.30
20+5	100	0	25	0		23.23	23.00	23.16
20+5	1	0	1	24	QPSK	16.85	16.87	17.42
20+5	1	99	1	0		25.58	25.54	25.31
20+5	100	0	25	0		22.38	21.79	22.05
20+5	1	0	1	24	16-QAM	17.13	17.50	16.34
20+5	1	99	1	0		24.76	24.29	24.99
20+5	100	0	25	0		21.19	21.27	21.69
20+5	1	0	1	24	64-QAM	17.12	16.89	16.74
20+5	1	99	1	0		22.15	23.14	23.41
5+20	25	0	100	0		22.91	23.17	23.20
5+20	1	0	1	99	QPSK	16.77	16.62	17.45
5+20	1	24	1	0		25.53	25.43	25.17
5+20	25	0	100	0		22.14	22.00	22.01
5+20	1	0	1	99	16-QAM	17.26	17.62	16.59
5+20	1	24	1	0		24.68	24.49	25.05
5+20	25	0	100	0		21.27	21.36	22.04
5+20	1	0	1	99	64-QAM	17.41	16.74	16.70
5+20	1	24	1	0		22.16	23.39	23.46



	LTE Band 66C_CA Maximum Average Power [dBm]										
	P	CC	S	CC		-					
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
15+10	75	0	50	0		23.07	22.95	23.44			
15+10	1	0	1	49	QPSK	16.81	16.79	17.33			
15+10	1	74	1	0		25.45	25.41	25.48			
15+10	75	0	50	0		22.19	21.93	22.17			
15+10	1	0	1	49	16-QAM	17.06	17.55	16.51			
15+10	1	74	1	0		24.54	24.32	24.91			
15+10	75	0	50	0		21.51	21.24	21.68			
15+10	1	0	1	49	64-QAM	17.13	16.68	16.88			
15+10	1	74	1	0		22.25	23.29	23.40			
10+15	50	0	75	0		23.21	22.91	23.41			
10+15	1	0	1	74	QPSK	16.61	16.79	17.23			
10+15	1	49	1	0		25.58	25.34	25.15			
10+15	50	0	75	0		22.52	21.91	22.29			
10+15	1	0	1	74	16-QAM	17.45	17.34	16.49			
10+15	1	49	1	0		24.50	24.42	25.06			
10+15	50	0	75	0		21.53	21.35	21.69			
10+15	1	0	1	74	64-QAM	17.37	16.72	16.76			
10+15	1	49	1	0		22.50	23.31	23.12			
15+15	75	0	75	0		23.14	23.21	23.38			
15+15	1	0	1	74	QPSK	16.68	16.71	17.28			
15+15	1	74	1	0		25.39	25.42	25.20			
15+15	75	0	75	0		22.25	21.84	22.10			
15+15	1	0	1	74	16-QAM	17.40	17.47	16.48			
15+15	1	74	1	0		24.58	24.32	24.72			
15+15	75	0	75	0		21.15	21.14	21.80			
15+15	1	0	1	74	64-QAM	17.03	16.87	16.77			
15+15	1	74	1	0		22.39	23.00	23.49			

LTE Band 7_CA Maximum Average Power [dBm]										
BW [MHz]	P	CC	S	CC	Mod					
BW [IMITZ]	RB Size	RB Offset	RB Size	RB Offset	WOO	Lowest	Middle	Highest		
20+20	100	0	100	0		21.00	21.18	21.58		
20+20	1	0	1	99	QPSK	15.54	15.32	15.37		
20+20	1	99	1	0		25.49	25.67	25.41		
20+20	100	0	100	0		20.08	20.24	20.31		
20+20	1	0	1	99	16-QAM	15.81	15.84	16.09		
20+20	1	99	1	0		24.08	23.96	23.74		
20+20	100	0	100	0		22.45	22.00	22.44		
20+20	1	0	1	99	64-QAM	15.88	15.96	16.22		
20+20	1	99	1	0		23.28	22.96	23.11		
20+15	100	0	75	0		21.19	21.20	21.33		
20+15	1	0	1	74	QPSK	15.38	15.39	15.43		
20+15	1	99	1	0		25.57	25.46	25.60		
20+15	100	0	75	0		19.99	20.02	20.55		
20+15	1	0	1	74	16-QAM	15.87	16.01	16.07		
20+15	1	99	1	0		24.04	23.79	23.75		
20+15	100	0	75	0		22.33	22.03	22.41		
20+15	1	0	1	74	64-QAM	15.97	16.03	16.44		
20+15	1	99	1	0		23.35	23.10	23.05		
15+20	75	0	100	0		21.12	21.26	21.50		
15+20	1	0	1	99	QPSK	15.46	15.34	15.48		
15+20	1	74	1	0		25.40	25.54	25.54		
15+20	75	0	100	0		19.99	20.22	20.54		
15+20	1	0	1	99	16-QAM	15.74	15.94	15.84		
15+20	1	74	1	0		24.26	23.83	23.79		
15+20	75	0	100	0		22.56	22.16	22.35		
15+20	1	0	1	99	64-QAM	16.03	15.98	16.28		
15+20	1	74	1	0		23.12	22.98	23.06		

		LTE	Band 7_C	A Maximur	n Average P	ower [dBm]		
DVA/ FMI I-1	PO	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	75	0		21.03	21.37	21.53
20+10	1	0	1	74	QPSK	15.55	15.29	15.40
20+10	1	99	1	0		25.32	25.52	25.45
20+10	100	0	75	0		20.13	20.02	20.36
20+10	1	0	1	74	16-QAM	15.87	15.99	16.03
20+10	1	99	1	0		24.11	23.90	23.67
20+10	100	0	75	0		22.55	22.03	22.44
20+10	1	0	1	74	64-QAM	15.93	16.12	16.39
20+10	1	99	1	0		23.21	22.98	23.07
10+20	75	0	100	0		20.97	21.30	21.51
10+20	1	0	1	99	QPSK	15.47	15.29	15.48
10+20	1	74	1	0		25.56	25.42	25.60
10+20	75	0	100	0		20.16	20.05	20.32
10+20	1	0	1	99	16-QAM	15.61	15.96	15.91
10+20	1	74	1	0		24.12	23.74	23.75
10+20	75	0	100	0		22.38	22.02	22.43
10+20	1	0	1	99	64-QAM	16.04	16.15	16.21
10+20	1	74	1	0		23.14	23.11	22.97
15+15	75	0	100	0		21.13	21.39	21.41
15+15	1	0	1	99	QPSK	15.33	15.40	15.46
15+15	1	74	1	0		25.35	25.39	25.40
15+15	75	0	100	0		20.03	20.29	20.31
15+15	1	0	1	99	16-QAM	15.91	15.87	15.87
15+15	1	74	1	0		24.23	24.02	23.61
15+15	75	0	100	0		22.41	22.03	22.32
15+15	1	0	1	99	64-QAM	16.15	16.09	16.39
15+15	1	74	1	0		23.23	22.97	23.11
15+10	75	0	100	0		20.92	21.18	21.63
15+10	1	0	1	99	QPSK	15.43	15.39	15.54
15+10	1	74	1	0		25.55	25.46	25.60
15+10	75	0	100	0		20.13	20.18	20.39
15+10	1	0	1	99	16-QAM	15.64	15.97	16.00
15+10	1	74	1	0		24.22	23.87	23.88
15+10	75	0	100	0		22.29	22.24	22.35
15+10	1	0	1	99	64-QAM	16.02	16.18	16.42
15+10	1	74	1	0		23.21	23.17	23.09

		LTE E	Band 41_C	A Maximu	m Average	Power [dBm]		
BW [MHz]	P	CC	S	CC	Mod			
DVV [IVITZ]	RB Size	RB Offset	RB Size	RB Offset	MOG	Lowest	Middle	Highest
20+20	100	0	100	0		23.55	23.59	23.80
20+20	1	0	1	99	QPSK	16.55	16.89	17.22
20+20	1	99	1	0		25.12	25.39	25.42
20+20	100	0	100	0		22.43	22.52	22.57
20+20	1	0	1	99	16-QAM	17.15	17.36	17.84
20+20	1	99	1	0		24.43	24.71	25.25
20+20	100	0	100	0		22.10	22.61	23.01
20+20	1	0	1	99	64-QAM	17.01	17.19	17.16
20+20	1	99	1	0		23.14	23.98	23.13
20+15	100	0	75	0		23.50	23.54	23.84
20+15	1	0	1	74	QPSK	16.57	17.21	17.03
20+15	1	99	1	0		24.94	25.16	25.34
20+15	100	0	75	0		22.34	22.56	22.89
20+15	1	0	1	74	16-QAM	17.04	17.70	17.77
20+15	1	99	1	0		24.48	24.63	25.39
20+15	100	0	75	0		22.23	22.33	22.64
20+15	1	0	1	74	64-QAM	17.05	17.41	17.34
20+15	1	99	1	0		23.11	23.73	23.05
15+20	75	0	100	0		23.55	23.60	23.79
15+20	1	0	1	99	QPSK	16.83	16.93	17.28
15+20	1	74	1	0		25.13	25.08	25.40
15+20	75	0	100	0		22.21	22.58	22.84
15+20	1	0	1	99	16-QAM	17.20	17.50	17.63
15+20	1	74	1	0		24.55	24.83	25.33
15+20	75	0	100	0		22.14	22.26	22.93
15+20	1	0	1	99	64-QAM	16.89	17.39	17.28
15+20	1	74	1	0		23.21	23.94	23.11

		LTE E	Band 41_C	A Maximu	m Average F	Power [dBm]		
DVA/ FMI I-1	P	CC	S	CC	Mad			
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20+10	100	0	50	0		23.53	23.67	23.79
20+10	1	0	1	49	QPSK	16.60	17.02	17.16
20+10	1	99	1	0		24.92	25.14	25.28
20+10	100	0	50	0		22.27	22.44	22.65
20+10	1	0	1	49	16-QAM	16.95	17.39	17.61
20+10	1	99	1	0		24.44	24.89	25.29
20+10	100	0	50	0		22.30	22.61	22.99
20+10	1	0	1	49	64-QAM	16.83	17.19	17.08
20+10	1	99	1	0		23.21	24.01	23.29
10+20	50	0	100	0		23.46	23.60	23.67
10+20	1	0	1	99	QPSK	16.51	16.98	17.05
10+20	1	49	1	0		24.91	25.42	25.36
10+20	50	0	100	0		22.24	22.51	22.90
10+20	1	0	1	99	16-QAM	17.31	17.67	17.89
10+20	1	49	1	0		24.38	24.65	25.47
10+20	50	0	100	0		22.29	22.29	22.67
10+20	1	0	1	99	64-QAM	16.87	17.36	17.07
10+20	1	49	1	0		23.26	23.81	23.29
20+5	100	0	25	0		23.34	23.67	23.77
20+5	1	0	1	24	QPSK	16.77	17.06	17.21
20+5	1	99	1	0		24.98	25.35	25.27
20+5	100	0	25	0		22.07	22.77	22.55
20+5	1	0	1	24	16-QAM	17.11	17.58	17.86
20+5	1	99	1	0		24.26	24.84	25.46
20+5	100	0	25	0		22.32	22.39	22.83
20+5	1	0	1	24	64-QAM	17.03	17.35	17.45
20+5	1	99	1	0		23.29	23.72	23.19
5+20	25	0	100	0		23.32	23.54	23.80
5+20	1	0	1	99	QPSK	16.45	16.95	17.23
5+20	1	24	1	0		25.12	25.21	25.31
5+20	25	0	100	0		22.23	22.60	22.51
5+20	1	0	1	99	16-QAM	17.00	17.31	17.93
5+20	1	24	1	0		24.46	24.82	25.45
5+20	25	0	100	0		22.40	22.61	22.70
5+20	1	0	1	99	64-QAM	17.12	17.33	17.29
5+20	1	24	1	0		23.26	23.92	23.09

	LTE Band 41_CA Maximum Average Power [dBm]										
DV4/ FM41 1-1	P	CC	S	CC	Mad						
BW [MHz]	RB Size	RB Offset	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
15+10	75	0	50	0		23.44	23.50	23.63			
15+10	1	0	1	49	QPSK	16.70	17.01	16.91			
15+10	1	74	1	0		25.01	25.33	25.39			
15+10	75	0	50	0		22.25	22.52	22.86			
15+10	1	0	1	49	16-QAM	17.18	17.44	17.55			
15+10	1	74	1	0		24.46	24.78	25.20			
15+10	75	0	50	0		22.33	22.42	22.96			
15+10	1	0	1	49	64-QAM	16.88	17.08	17.28			
15+10	1	74	1	0		23.37	24.04	23.04			
10+15	50	0	75	0		23.57	23.31	23.70			
10+15	1	0	1	74	QPSK	16.65	17.09	17.11			
10+15	1	49	1	0		24.99	25.25	25.48			
10+15	50	0	75	0		22.17	22.63	22.70			
10+15	1	0	1	74	16-QAM	17.22	17.61	17.75			
10+15	1	49	1	0		24.46	24.84	25.39			
10+15	50	0	75	0		22.38	22.40	23.01			
10+15	1	0	1	74	64-QAM	16.82	17.14	17.38			
10+15	1	49	1	0		23.26	23.96	23.33			
15+15	75	0	75	0		23.57	23.48	23.66			
15+15	1	0	1	74	QPSK	16.48	17.10	17.17			
15+15	1	74	1	0		25.02	25.30	25.29			
15+15	75	0	75	0		22.31	22.69	22.69			
15+15	1	0	1	74	16-QAM	17.22	17.46	17.61			
15+15	1	74	1	0		24.47	24.83	25.36			
15+15	75	0	75	0		22.37	22.52	22.73			
15+15	1	0	1	74	64-QAM	16.85	17.29	17.06			
15+15	1	74	1	0		23.38	23.89	23.04			

### LTE Band 5B

## 26dB Bandwidth

Mode	LTE Band 5B : 26dB BW(MHz)							
		QPSK						
BW	3MHz+5MHz 5MHz+3MHz 5MHz+10MHz							
Lowest CH			14.57					
Middle CH	14.69							
Highest CH			14.54					
BW	10MHz+5MHz	10MHz+10MHz	N/A					
Lowest CH	14.60	19.54	-					
Middle CH	14.63	19.54	-					
Highest CH	14.72	19.54	-					

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Mode	LTE Band 5B : 26dB BW(MHz)											
	16QAM											
BW	3MHz+5MHz	3MHz+5MHz 5MHz+3MHz 5MHz+10MHz										
Lowest CH			14.57									
Middle CH		14.48										
Highest CH			14.48									
BW	10MHz+5MHz	10MHz+10MHz	N/A									
Lowest CH	14.63	19.70	-									
Middle CH	14.72	14.72 19.46 -										
Highest CH	14.72	19.62	-									

Mode	LTE Band 5B : 26dB BW(MHz)					
64QAM						
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz			
Lowest CH			14.63			
Middle CH			14.57			
Highest CH			14.60			
BW	10MHz+5MHz	10MHz+10MHz	N/A			
Lowest CH	14.63	19.50	-			
Middle CH	14.72	19.70	-			
Highest CH	14.66	19.66	-			

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LTE Band 5B **QPSK** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz 17.73 dBn 831.0850 \*\*\* Type Ref Trc Date: 10.JUN.2020 05:40:08 Date: 10.JUN.2020 07:04:54 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 
 Ref Level
 30.00 dBm
 Offset
 11.20 dB ⊕ RBW
 300 kHz

 Att
 30 dB
 SWT
 12.6 μs ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT M1[1] 10 dBm--20 dBm Function Result

14.685 MH:
26.00 di
56.5 Function Result 14.625 MHz 26.00 dB 57.6 
 X-value
 Y-value
 Function

 830.321 MHz
 18.97 dBm
 ndB down

 929.122 MHz
 -6.78 dBm
 ndB

 843.808 MHz
 -7.85 dBm
 Q factor
 Type Ref Trc 
 X-value
 Y-value
 Function

 842.169 MHz
 17.55 dBm
 nd8 down

 829.132 MHz
 -7.79 dBm
 nd8

 843.758 MHz
 -7.90 dBm
 Q factor
 Type | Ref | Trc | Highest Channel / 10MHz+5MHz Highest Channel / 5MHz+10MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 40 dBm CF 841.475 MHz Function Result 14.535 MHz 26.00 dB 57.5 Function Result 14.715 MHz 26.00 dB 56.8 
 X-value
 Y-value
 Function

 836.38 MHz
 17.23 d8m
 nd8 down

 834.042 MHz
 -9.52 d8m
 nd8

 848.758 MHz
 -9.87 d8m
 Q factor

 X-value
 Y-value
 Function

 835.531 MHz
 19.17 dBm
 ndB down

 834.212 MHz
 -6.83 dBm
 ndB

 848.748 MHz
 -6.73 dBm
 Q factor
 Type Ref Trc Type Ref Trc Date: 10.JUN.2020 06:28:58 Date: 10.JUN.2020 08:00:53

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LTE Band 5B **QPSK** Lowest Channel / 10MHz+10MHz N/A Date: 11.JUN.2020 01:46:37 Middle Channel / 10MHz+10MHz N/A 
 Ref Level
 30.00 dBm
 Offset
 11.20 dB ⊕ RBW
 300 kHz

 Att
 30 dB
 SWT
 18.9 μs ⊕ VBW
 1 MHz
 Mode Auto FFT
 M1[1] Function Result 19.54 MH 26.00 d Type Ref Trc 
 X-value
 Y-value
 Function

 834.072 MHz
 17.37 dBm
 nd8 down

 826.76 MHz
 -9.26 dBm
 nd8

 846.3 MHz
 -8.56 dBm
 Q factor
 Highest Channel / 10MHz+10MHz N/A Function Result 19.54 MHz 26.00 dB 42.6 
 X-value
 Y-value
 Function

 833.256 MHz
 17.19 dBm
 ndB down

 829.26 MHz
 -9.97 dBm
 ndB

 848.8 MHz
 -8.77 dBm
 Q factor
 Type | Ref | Trc |

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FAX: 886-3-328-4978

Date: 11.JUN.2020 01:43:14

LTE Band 5B **16QAM** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz Type Ref Trc Date: 10.JUN.2020 05:39:45 Date: 10.JUN.2020 07:04:32 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 
 Ref Level
 30.00 dBm
 Offset
 11.20 dB ⊕ RBW
 300 kHz

 Att
 30 dB
 SWT
 12.6 μs ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT M1[1] M1[1] 10 dBm-Function Result 14.715 MHz 26.00 dB 
 X-value
 Y-value
 Function

 830.171 MHz
 18.70 dBm
 ndB down

 829.242 MHz
 -6.25 dBm
 ndB

 843.718 MHz
 -6.47 dBm
 Q factor
 Type Ref Trc 
 X-value
 Y-value
 Function

 840,971 MHz
 16.53 dBm
 nd8 down

 829,042 MHz
 -9.33 dBm
 nd8

 843,758 MHz
 -9.48 dBm
 Q factor
 Type Ref Trc Function Result Highest Channel / 5MHz+10MHz Highest Channel / 10MHz+5MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 18.85 dBr 835.0220 MH 26.00 d CF 841.475 MHz Function Result 14.476 MHz 26.00 dB 57.7 Function Result 14.715 MHz 26.00 dB 56.8 
 X-value
 Y-value
 Function

 835.691 MHz
 16.67 dBm
 ndB down

 834.012 MHz
 -9.48 dBm
 ndB

 848.728 MHz
 -8.41 dBm
 Q factor

 X-value
 Y-value
 Function

 835.022 MHz
 18.85 dBm
 nd8 down

 834.212 MHz
 -6.72 dBm
 nd8

 848.686 MHz
 -6.76 dBm
 Q factor
 Type Ref Trc Type Ref Trc Date: 10.JUN.2020 06:29:21 Date: 10.JUN.2020 08:01:16

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LTE Band 5B **16QAM** Lowest Channel / 10MHz+10MHz N/A Date: 11.JUN.2020 01:47:10 Middle Channel / 10MHz+10MHz N/A 
 Ref Level
 30.00 d8m
 Offset
 11.20 d8 ⊕ RBW
 300 kHz

 Att
 30 d8
 SWT
 18.9 µs ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 M1[1] 30 dBm Function Result
19.461
26.0 
 X-value
 Y-value
 Function

 833.233 MHz
 17.01 dbm
 nd8 down

 826.8 MHz
 -7.12 dbm
 nd8

 846.26 MHz
 -8.60 dbm
 Q factor
 Highest Channel / 10MHz+10MHz N/A Function Result 19.62 MHz 26.00 dB 42.5 
 X-value
 Y-value
 Function

 833.615 MHz
 17.31 dBm
 nd8 down

 829.14 MHz
 -8.92 dBm
 nd8

 848.76 MHz
 -8.69 dBm
 Q factor
 Type | Ref | Trc |

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FAX: 886-3-328-4978

Date: 11.JUN.2020 01:10:45

LTE Band 5B **64QAM** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz **□** Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 Span 30.0 MHz CF 831.475 MHz Function Result 14.625 MHz 26.00 dB 56.8 Function Result 14.625 MHz Type | Ref | Trc | Type | Ref | Trc | Date: 10.JUN.2020 05:39:22 Date: 10.JUN.2020 07:04:09 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz O dBm Offset 11.20 dB RBW 300 kHz 30 dB SWT 12.6 μs VBW 1 MHz 0 dBm Offset 11.20 dB ■ RBW 300 kHz 30 dB SWT 12.6 µs ■ VBW 1 MHz M1[1] 19.14 dB 831.0400 MF Function Result 14.565 MHz 26.00 dB 57.1 Type Ref Trc Date: 10.JUN.2020 07:45:36 Date: 10.JUN.2020 06:12:17 Highest Channel / 5MHz+10MHz Highest Channel / 10MHz+5MHz Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Ref Level 30.00 Att 3 Mode Auto FFT M1[1]

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Function Result 14.655 MHz 26.00 dB 57.1

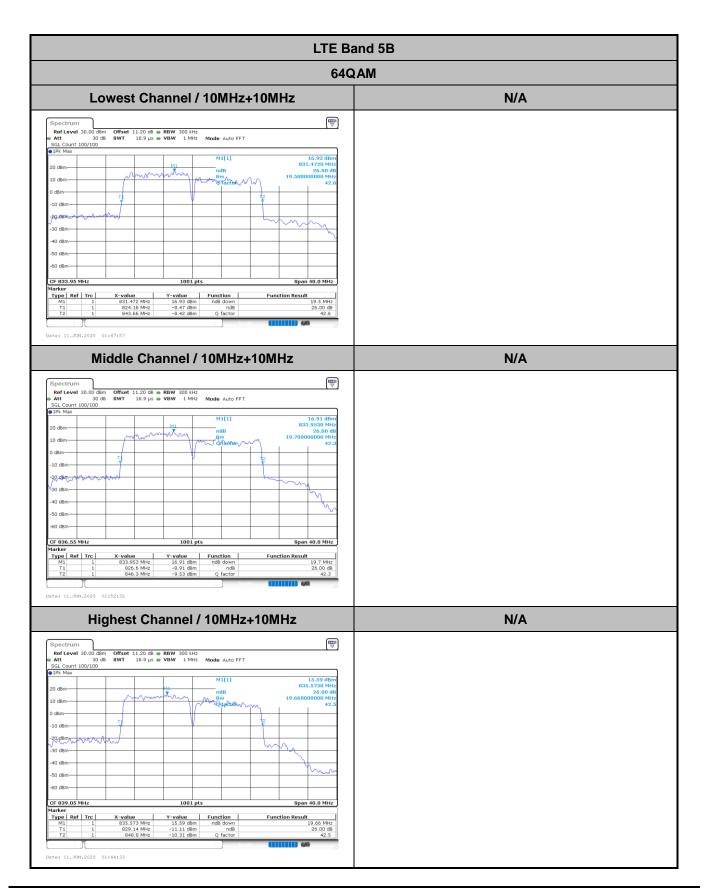
Type Ref Trc

Date: 10.JUN.2020 08:01:39

Function Result 14.595 MH: 26.00 di 57.3

Type Ref Trc

CC RADIO TEST REPORT Report No.: FG022521-02B



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# **Occupied Bandwidth**

Mode	LTE Band 5B : 99%OBW(MHz)					
QPSK						
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz			
Lowest CH			13.91			
Middle CH			13.76			
Highest CH			13.76			
BW	10MHz+5MHz	10MHz+10MHz	N/A			
Lowest CH	13.79	18.58	-			
Middle CH	13.85	18.70	-			
Highest CH	13.91	18.66	-			

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Mode	LTE Band 5B : 99%OBW(MHz)					
16QAM						
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz			
Lowest CH			13.64			
Middle CH			13.88			
Highest CH			13.76			
BW	10MHz+5MHz	10MHz+10MHz	N/A			
Lowest CH	13.79	18.74	-			
Middle CH	13.91	18.62	-			
Highest CH	13.88	18.62	-			

Mode	LTE Band 5B : 99%OBW(MHz)					
64QAM						
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz			
Lowest CH			13.70			
Middle CH			13.85			
Highest CH			13.85			
BW	10MHz+5MHz	10MHz+10MHz	N/A			
Lowest CH	13.82	18.70	-			
Middle CH	13.85	18.58	-			
Highest CH	13.88	18.70	-			

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LTE Band 5B **QPSK** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 20.30 dBr 827.0590 MH 13.906093906 MH -10 dBm W -50 dBm- 
 X-value
 Y-value
 Function

 827.059 MHz
 20.30 dBm
 0.824.482 MHz

 824.482 MHz
 13.26 dBm
 Occ Bw

 838.3891 MHz
 10.50 dbm

 X-value
 Y-value
 Function

 832.594 MHz
 17.78 dBm
 824.522 MHz
 0.00 Bm

 824.522 MHz
 9.93 dBm
 0.00 Bm
 0.00 Bm
 Type Ref Trc 13.906093906 MHz Date: 10.JUN.2020 05:38:14 Date: 10.JUN.2020 07:03:01 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 
 Ref Level
 30.00 dBm
 Offset
 11.20 dB ⊕ RBW
 300 kHz

 Att
 30 dB
 SWT
 12.6 μs ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT M1[1] M1[1] 10 dBm-CF 836.525 MHz CF 836.475 MHz 
 X-value
 Y-value
 Function

 830.991 MHz
 20.47 dBm
 DCC BW

 829.512 MHz
 14.31 dBm
 Occ BW

 843.2683 MHz
 8.35 dBm
 Type | Ref | Trc | Type Ref Trc Function Result **Function Result** 13.756243756 MHz 13.846153846 MHz Highest Channel / 5MHz+10MHz Highest Channel / 10MHz+5MHz Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

1Pk Max 19.13 dBr 835.5010 MH 13.756243756 MH 10 dBm dBm-10 dBm--40 dBm 40 dBm CF 841.475 MHz CF 841.525 MHz Span 30.0 MHz Span 30.0 MHz 
 X-value
 Y-value
 Function

 839.917 MHz
 17.06 dBm

 834.462 MHz
 13.35 dBm
 Occ Bw

 848.3681 MHz
 12.02 dBm

 X-value
 Y-value
 Function

 835.501 MHz
 19.13 dBm

 834.482 MHz
 12.58 dBm
 Occ Bw

 848.2383 MHz
 8.73 dBm
 Type | Ref | Trc | Type Ref Trc Function Result **Function Result** 13.756243756 MHz 13.906093906 MHz Date: 10.JUN.2020 06:28:36 Date: 10.JUN.2020 08:00:31

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LTE Band 5B **QPSK** Lowest Channel / 10MHz+10MHz N/A Date: 11.JUN.2020 00:05:52 Middle Channel / 10MHz+10MHz N/A M1[1] 
 Marker
 Trc
 X-value
 Y-value
 Function

 M1
 1
 833.753 MHz
 17.91 d8m
 17.91 d8m

 T1
 1
 827.0795 MHz
 12.46 d8m
 Occ Bw

 T2
 1
 845.7808 MHz
 9.81 d8m
 Occ Bw
 Function Result 18.701298701 MHz Highest Channel / 10MHz+10MHz N/A M1[1] 
 X-value
 Y-value
 Function

 835.813 MHz
 17.50 dBm

 829.5795 MHz
 11.97 dBm
 Occ Bw

 848.2408 MHz
 9.17 dBm
 Type Ref Trc Function Result 18.661338661 MHz

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Date: 11.JUN.2020 01:10:00

LTE Band 5B **16QAM** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 -30 dBm--50 dBm-Date: 10.JUN.2020 05:38:37 Date: 10.JUN.2020 07:03:24 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 
 Ref Level
 30.00 dBm
 Offset
 11.20 dB ⊕ RBW
 300 kHz

 Att
 30 dB
 SWT
 12.6 μs ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT M1[1] M1[1] 10 dBm-30 dBr CF 836.525 MHz CF 836.475 MHz 
 X-value
 Y-value
 Function

 829.722 MHz
 19.22 dBm

 829.482 MHz
 13.31 dBm
 Occ Bw

 843.3582 MHz
 9.94 dBm
 Type Ref Trc Type Ref Trc **Function Result Function Result** 13.876123876 MHz 13.906093906 MHz Highest Channel / 5MHz+10MHz Highest Channel / 10MHz+5MHz Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

1Pk Max M1[1] 10 dBmdBm-10 dBm--40 dBm 40 dBm CF 841.475 MHz CF 841.525 MHz Span 30.0 MHz 
 X-value
 Y-value
 Function

 845.371 MHz
 16.88 dBm

 834.492 MHz
 11.89 dBm
 Occ Bw

 848.3681 MHz
 10.74 dBm

 X-value
 Y-value
 Function

 835.501 MHz
 18.90 dBm

 834.482 MHz
 12.58 dBm
 Occ Bw

 848.2383 MHz
 7.97 dBm
 Type | Ref | Trc | Type Ref Trc Function Result Function Result 13.756243756 MHz 13.876123876 MHz Date: 10.JUN.2020 06:28:13 Date: 10.JUN.2020 08:00:09

Report No.: FG022521-02B LTE Band 5B **16QAM** Lowest Channel / 10MHz+10MHz N/A 
 X-value
 Y-value
 Function

 832.432 MHz
 18.20 dBm
 824.5194 MHz

 824.5194 MHz
 11.51 dBm
 Occ Bw

 943.2607 MHz
 9.95 dBm
 Date: 11.JUN.2020 00:06:14 Middle Channel / 10MHz+10MHz N/A M1[1] CF 836.55 MHz Type Ref Trc 
 X-value
 Y-value
 Function

 833.073 MHz
 18.15 dBm
 9.27.1594 MHz
 12.64 dBm
 Occ Bw

 845.7808 MHz
 9.43 dBm
 Occ Bw
 Function Result 18.621378621 MHz Highest Channel / 10MHz+10MHz N/A M1[1]

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Function Result 18.621378621 MHz

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Date: 11.JUN.2020 01:09:37

Type Ref Trc

 X-value
 Y-value
 Function

 837.571 MHz
 16.61 dBm

 829.6194 MHz
 11.45 dBm
 Occ Bw

 848.2408 MHz
 6.07 dBm

Type Ref Trc

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LTE Band 5B **64QAM** Lowest Channel / 5MHz+10MHz Lowest Channel / 10MHz+5MHz Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

Pk Max 19.81 dBi 827.9890 MF 13.696303696 MF dBm-CF 831.475 MHz CF 831.525 MHz 1001 pts Span 30.0 MHz 1001 pts 
 X-value
 Y-value
 Function

 827,989 MHz
 19.81 dlm
 Occ Bw

 824.512 MHz
 12.61 dBm
 Occ Bw

 838.2083 MHz
 6.97 dBm

 X-value
 Y-value
 Function

 828.208 MHz
 15.34 dBm
 824.5819 MHz
 10.59 dBm
 Occ Bw

 824.5819 MHz
 11.97 dBm
 Occ Bw
 0cc Bw Type | Ref | Trc | Type | Ref | Trc | Function Result Function Result 13.696303696 MHz 13.816183816 MHz Date: 10.JUN.2020 05:39:00 Date: 10.JUN.2020 07:03:47 Middle Channel / 5MHz+10MHz Middle Channel / 10MHz+5MHz Ref Level 30.00 dBm Offset 11.20 dB @ RBW 300 kHz att 30 dB SWT 12.6 µs @ VBW 1 MHz SGL Count 100/100 @ 19k Max M1[1] -10 dBm -20 dBm--50 dBm -50 dBm-Y-value Function 17.62 dBm 11.52 dBm Occ Bw 9.86 dBm X-value 830.481 MHz 829.522 MHz 843.3681 MHz Type Ref Trc Function Result Type Ref Trc 13.846153846 MHz 13.846153846 MHz Date: 10.JUN.2020 06:11:55 Date: 10.JUN.2020 07:45:14 Highest Channel / 10MHz+5MHz Highest Channel / 5MHz+10MHz Ref Level 30.0 Att Offset 11.20 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Ref Level 30.00 dBn Att 30 dB Offset 11.20 dB ⊕ RBW 300 kHz SWT 12.6 μs ⊕ VBW 1 MHz Mode Auto FFT M1[1] 10 dBm-Span 30.0 MHz Type Ref Trc 
 X-value
 Y-value
 Function

 835.241 MHz
 16.54 dBm
 934.522 MHz

 834.522 MHz
 11.59 dBm
 Occ Bw

 848.3981 MHz
 11.16 dBm

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**Function Result** 

13.876123876 MHz

Date: 10.JUN.2020 07:59:46

**Function Result** 

13.846153846 MHz

 X-value
 Y-value
 Function

 835.254 MHz
 14.86 dBm

 829.6194 MHz
 9.48 dBm
 Occ Bw

 848.3207 MHz
 7.60 dBm

Type Ref Trc

Date: 11.JUN.2020 01:09:14

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LTE Band 5B 64QAM Lowest Channel / 10MHz+10MHz N/A CF 833.95 MHz 
 X-value
 Y-value
 Function

 831.153 MHz
 16.41 dBm

 824.5194 MHz
 10.27 dBm
 Occ Bw

 843.2207 MHz
 7.72 dBm
 Type Ref Trc Function Result 18.701298701 MHz Date: 11.JUN.2020 00:06:37 N/A Middle Channel / 10MHz+10MHz Reflevel 30.00 dBm Offset 11.20 dB • RBW 300 kHz
Att 30 dB SWT 18.9 µs • VBW 1 MHz Mode Auto FFT
SGL Count 100/100
10°R Max M1[1] 
 X-value
 Y-value
 Function

 832.554 MHz
 15.95 dBm

 827.1194 MHz
 11.37 dBm
 Occ Bw

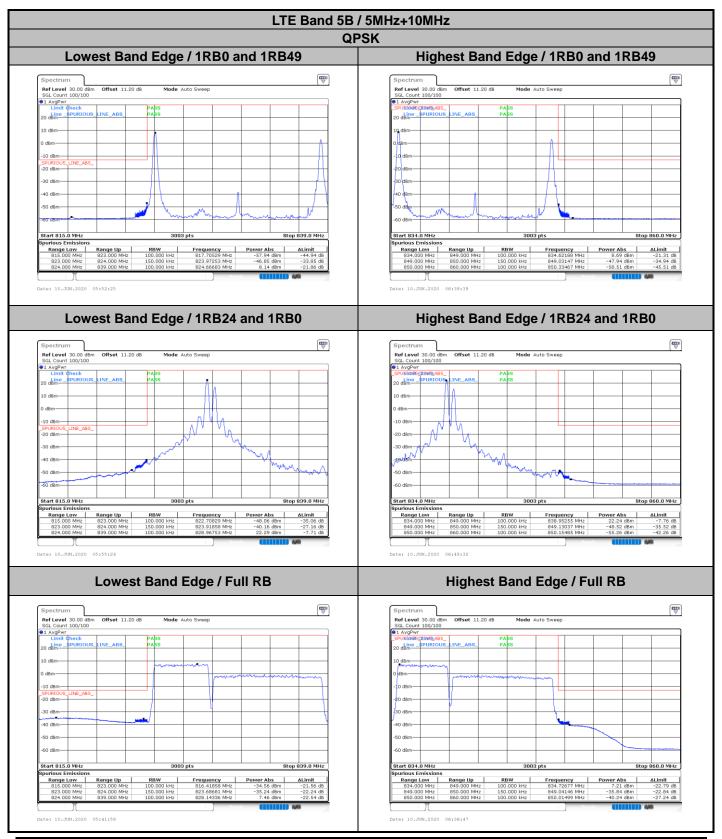
 845.7008 MHz
 6.61 dBm
 Type Ref Trc 18.581418581 MHz Date: 11.JUN.2020 00:56:35 Highest Channel / 10MHz+10MHz N/A M1[1]

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Function Result 18.701298701 MHz

## **Conducted Band Edge**



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