FCC RF Test Report

APPLICANT	:	OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	1+, ONEPLUS
MODEL NAME	:	CPH2451
FCC ID	:	2ABZ2-AA516
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F), 27(N)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Oct. 28, 2022 ~ Nov. 07, 2022

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG2O2001B	Rev. 01	Initial issue of report	Dec. 21, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§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)	< 43+10log10(P[Watts])	PASS	-
3.8	§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)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§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)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 21.50 dB at 1564.00 MHz

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.

1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	1+, ONEPLUS
Model Name	CPH2451
FCC ID	2ABZ2-AA516
IMEI Code	Conducted: 864921060035633/864921060035625 Radiation: 864921060027531/864921060027523
HW Version	11
SW Version	OxygenOS 13.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2200 MHz LTE Band 71: 617 MHz ~ 652 MHz
Bandwidth	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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz 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 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant. 0> LTE Band 5 : 22.86 dBm LTE Band 12 : 23.82 dBm LTE Band 13 : 23.78 dBm LTE Band 17 : 23.78 dBm LTE Band 26 : 23.95 dBm LTE Band 71 : 23.81 dBm <Ant. 1> LTE Band 5 : 24.00 dBm LTE Band 12 : 24.00 dBm LTE Band 13 : 23.95 dBm LTE Band 17 : 23.99 dBm LTE Band 26 : 24.03 dBm LTE Band 71 : 24.04 dBm <Ant. 4> LTE Band 2 : 22.60 dBm LTE Band 4 : 22.65 dBm LTE Band 25 : 22.65 dBm LTE Band 66 : 22.66 dBm <Ant. 5>

	LTE Band 2 : 23.90 dBm LTE Band 4 : 23.87 dBm LTE Band 25 : 23.92 dBm LTE Band 66 : 23.99 dBm <Ant. 6> LTE Band 2 : 23.55 dBm LTE Band 4 : 23.56 dBm LTE Band 25 : 23.56 dBm LTE Band 66 : 23.35 dBm <Ant. 7> LTE Band 2 : 22.50 dBm LTE Band 4 : 22.10 dBm LTE Band 25 : 22.51 dBm LTE Band 66 : 22.15 dBm
Antenna Gain	<Ant. 0> for LTE Band 5/12/13/17/26/71 : -4.5 dBi <Ant. 1> for LTE Band 5/12/13/17/26/71 : -4.0 dBi <Ant. 4> for LTE Band 2/4/25/66 : -3.0 dBi <Ant. 5> for LTE Band 2/4/25/66 : -2.0 dBi <Ant. 6> for LTE Band 2/4/25/66 : -3.0 dBi <Ant. 7> for LTE Band 2/4/25/66 : -3.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, the test report only show the maximum ERP/EIRP of Ant.1 for LTE Band 5/12/13/17/26/71 and Ant.5 for LTE Band 2/4/25/66.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP and Emission Designator

LTE Band 2_Ant.5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1483	1M10G7D	0.1318	1M11W7D
3	1851.5 ~ 1908.5	0.1521	2M75G7D	0.1318	2M75W7D
5	1852.5 ~ 1907.5	0.1503	4M51G7D	0.1315	4M52W7D
10	1855.0 ~ 1905.0	0.1528	9M05G7D	0.1330	9M07W7D
15	1857.5 ~ 1902.5	0.1521	13M6G7D	0.1334	13M6W7D
20	1860.0 ~ 1900.0	0.1549	17M9G7D	0.1346	18M0W7D
LTE Band 25_Ant.5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.1531	1M10G7D	0.1334	1M11W7D
3	1851.5 ~ 1913.5	0.1517	2M75G7D	0.1291	2M75W7D
5	1852.5 ~ 1912.5	0.1528	4M51G7D	0.1343	4M52W7D
10	1855.0 ~ 1910.0	0.1496	9M05G7D	0.1327	9M07W7D
15	1857.5 ~ 1907.5	0.1514	13M6G7D	0.1337	13M6W7D
20	1860.0 ~ 1905.0	0.1556	17M9G7D	0.1387	18M0W7D
LTE Band 5_Ant.1		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0607	1M10G7D	0.0543	1M12W7D
3	825.5 ~ 847.5	0.0600	2M72G7D	0.0536	2M78W7D
5	826.5 ~ 846.5	0.0598	4M51G7D	0.0537	4M53W7D
10	829.0 ~ 844.0	0.0610	9M09G7D	0.0531	9M13W7D
LTE Band 26_Ant.1		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0593	1M10G7D	0.0506	1M12W7D
3	825.5 ~ 847.5	0.0586	2M72G7D	0.0504	2M78W7D
5	826.5 ~ 846.5	0.0592	4M51G7D	0.0515	4M53W7D
10	829.0 ~ 844.0	0.0598	9M09G7D	0.0518	9M13W7D
15	831.5 ~ 841.5	0.0614	13M5G7D	0.0499	13M5W7D
CH26790	824.0	0.0610	13M5G7D	0.0494	13M5W7D

LTE Band 4_Ant.5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.1496	1M10G7D	0.1337	1M11W7D
3	1711.5 ~ 1753.5	0.1517	2M74G7D	0.1340	2M75W7D
5	1712.5 ~ 1752.5	0.1524	4M52G7D	0.1340	4M54W7D
10	1715.0 ~ 1750.0	0.1524	9M09G7D	0.1343	9M05W7D
15	1717.5 ~ 1747.5	0.1489	13M5G7D	0.1337	13M6W7D
20	1720.0 ~ 1745.0	0.1538	17M9G7D	0.1358	18M0W7D
LTE Band 66_Ant.5		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
1.4	1710.7 ~ 1779.3	0.1524	1M10G7D	0.1346	1M11W7D
3	1711.5 ~ 1778.5	0.1528	2M74G7D	0.1387	2M75W7D
5	1712.5 ~ 1777.5	0.1570	4M52G7D	0.1387	4M54W7D
10	1715.0 ~ 1775.0	0.1524	9M09G7D	0.1346	9M05W7D
15	1717.5 ~ 1772.5	0.1552	13M5G7D	0.1361	13M6W7D
20	1720.0 ~ 1770.0	0.1581	17M9G7D	0.1400	18M0W7D
LTE Band 12_Ant.1		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
1.4	699.7 ~ 715.3	0.0600	1M10G7D	0.0518	1M11W7D
3	700.5 ~ 714.5	0.0596	2M73G7D	0.0516	2M75W7D
5	701.5 ~ 713.5	0.0600	4M55G7D	0.0516	4M53W7D
10	704.0 ~ 711.0	0.0610	9M05G7D	0.0516	9M11W7D
LTE Band 13_Ant.1		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	779.5 ~ 784.5	0.0597	4M53G7D	0.0519	4M54W7D
10	782.0	0.0603	8M97G7D	0.0512	9M07W7D
LTE Band 17_Ant.1		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	706.5 ~ 713.5	0.0593	4M55G7D	0.0519	4M53W7D
10	709.0 ~ 711.0	0.0608	9M05G7D	0.0519	9M11W7D

LTE Band 71		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	665.5 ~ 695.5	0.0605	4M51G7D	0.0507	4M51W7D
10	668.0 ~ 693.0	0.0612	9M05G7D	0.0515	9M05W7D
15	670.5 ~ 690.5	0.0598	13M5G7D	0.0512	13M5W7D
20	673.0 ~ 688.0	0.0615	17M9G7D	0.0518	17M9W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
4. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
5. All modulations have been tested, only the maximum bandwidth and the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F), 27(N)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP 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.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

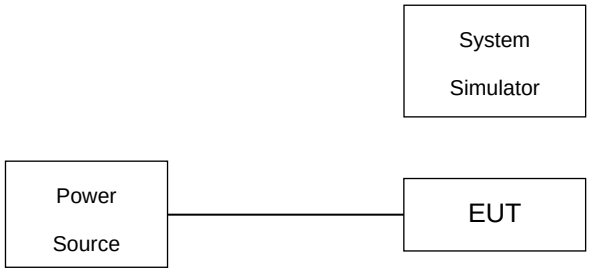
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission(Z Plane).

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power & ERP/EIRP	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	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	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71			v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	12				v	-	-	v	v	v				v		v	
	13	-	-		v	-	-	v	v	v				v		v	
	25						v	v	v	v				v		v	
	26					v	-	v	v	v				v		v	
	66						v	v	v	v				v		v	
	71						v	v	v	v				v		v	
26dB and 99% Bandwidth	12	v	v	v	v	-	-	v	v	v				v	v	v	v
	13	-	-	v	v	-	-	v	v	v				v	v	v	v
	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
	66	v	v	v	v	v	v	v	v	v				v	v	v	v
	71			v	v	v	v	v	v	v				v	v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted BandEdge	12	v	v	v	v	-	-	v	v	v		v		v	v		v
	13	-	-	v	v	-	-	v	v	v		v		v	v		v
	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
	66	v	v	v	v	v	v	v	v	v		v		v	v		v
	71	v	v	v	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	12	v	v	v	v	-	-	v	v	v		v			v	v	v
	13	-	-	v	v	-	-	v	v	v		v			v	v	v
	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
	66	v	v	v	v	v	v	v	v	v		v			v	v	v
	71			v	v	v	v	v	v	v		v			v	v	v
Frequency Stability	12				v	-	-	v				v				v	
	13	-	-		v	-	-	v				v				v	
	25				v			v				v				v	
	26				v		-	v				v				v	
	66				v			v				v				v	
	71				v			v				v				v	
Radiated Spurious Emission	12	Worst Case													v	v	v
	13	Worst Case													v	v	v
	25	Worst Case													v	v	v
	26	Worst Case													v	v	v
	66	Worst Case													v	v	v
	71	Worst Case													v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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. 4. All test items are based on engineering evaluation.																

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

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 4.0 dB and 10dB attenuator.

Example :

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

= 4.0 + 10 = 14.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency 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
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

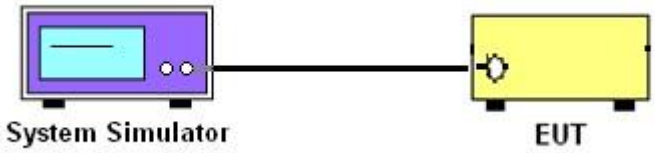
3 Conducted Test Items

3.1 Measuring Instruments

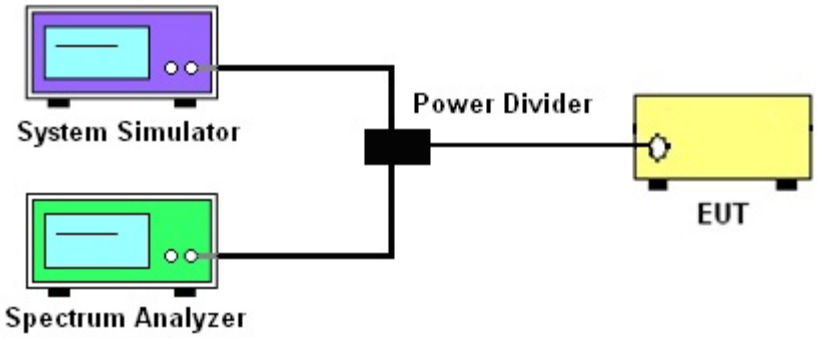
See list of measuring instruments of this test report.

3.2 Test Setup

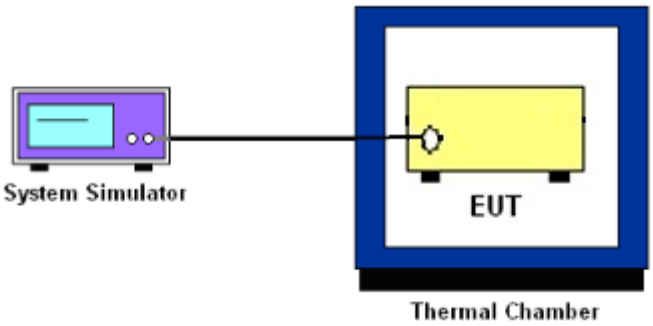
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 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.

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, 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.

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_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 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.

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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + $10\log_{10}$(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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

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

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 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.

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

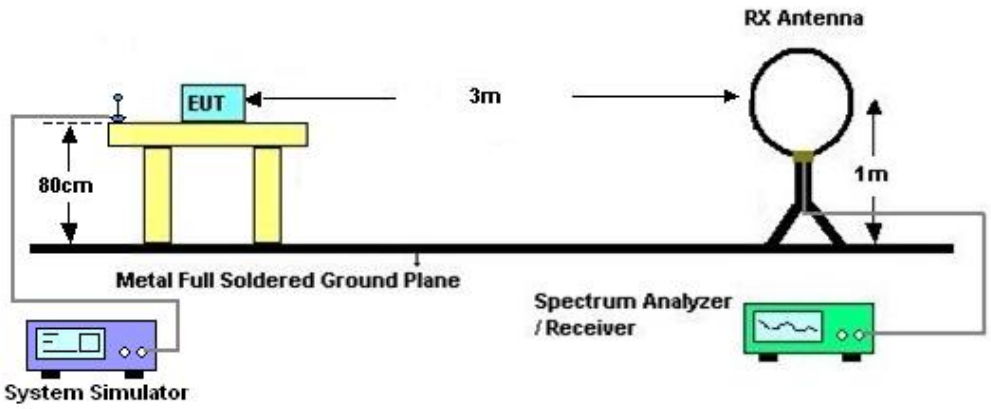
4 Radiated Test Items

4.1 Measuring Instruments

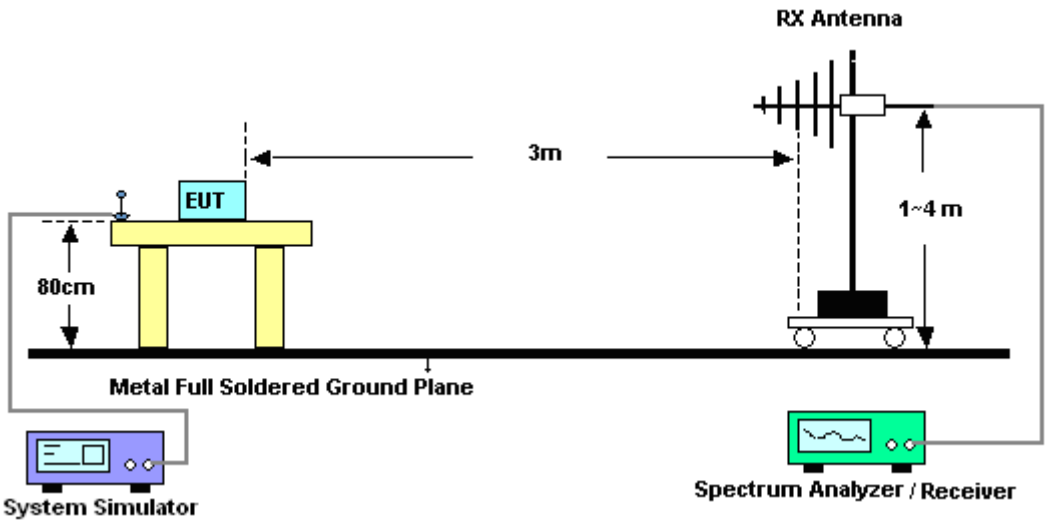
See list of measuring instruments of this test report.

4.2 Test Setup

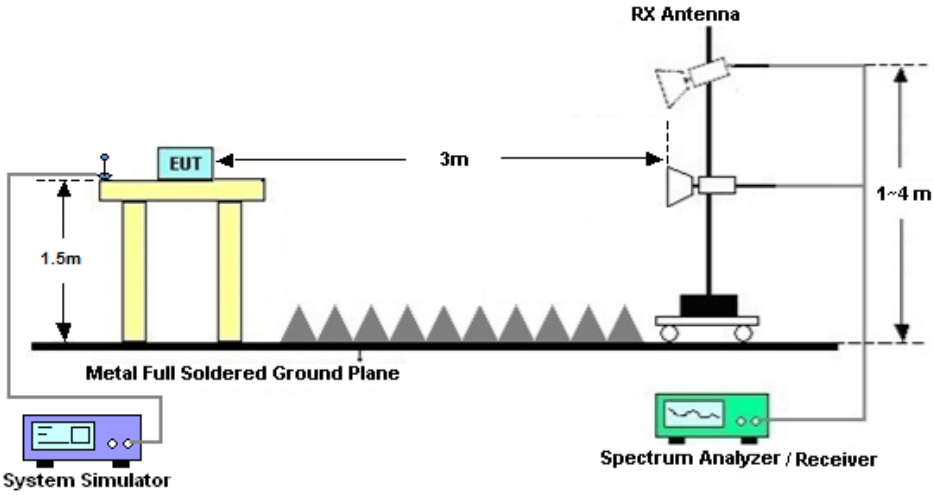
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 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.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. 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)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Oct. 28, 2022~ Nov. 07, 2022	Apr. 08, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Oct. 28, 2022~ Nov. 07, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Oct. 28, 2022~ Nov. 07, 2022	Jul. 06, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	Oct. 30, 2022	Dec. 26, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Oct. 30, 2022	Jul. 27, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Oct. 30, 2022	Oct. 18, 2023	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Oct. 30, 2022	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Oct. 30, 2022	Jul. 06, 2023	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Oct. 30, 2022	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	Oct. 30, 2022	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 30, 2022	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 06, 2022	Oct. 30, 2022	Jul. 05, 2023	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Oct. 30, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 30, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 30, 2022	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02dB

Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power)

LTE Band 2_Ant 5						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.82	23.90	23.78
20	QPSK	1	49	23.75	23.85	23.75
20	QPSK	1	99	23.67	23.71	23.70
20	QPSK	50	0	22.91	22.97	22.89
20	QPSK	50	24	22.87	22.86	22.88
20	QPSK	50	50	22.81	22.82	22.85
20	QPSK	100	0	22.83	22.91	22.87
20	16QAM	1	0	23.09	23.29	23.00
20	16QAM	1	49	23.24	23.28	23.27
20	16QAM	1	99	22.91	22.96	23.00
20	16QAM	50	0	21.85	22.00	21.78
20	16QAM	50	24	21.87	21.90	21.86
20	16QAM	50	50	21.81	21.84	21.87
20	16QAM	100	0	21.84	21.88	21.87
20	64QAM	1	0	21.97	22.18	22.00
20	64QAM	1	49	22.02	22.06	22.14
20	64QAM	1	99	21.92	21.89	21.97
20	64QAM	50	0	20.85	21.01	20.80
20	64QAM	50	24	20.87	20.89	20.89
20	64QAM	50	50	20.81	20.84	20.85
20	64QAM	100	0	20.84	20.86	20.88
20	256QAM	1	0	18.74	18.88	18.88
20	256QAM	1	49	18.77	18.80	18.80
20	256QAM	1	99	18.69	18.85	18.71
20	256QAM	50	0	18.65	18.77	18.71
20	256QAM	50	24	18.60	18.72	18.71
20	256QAM	50	50	18.68	18.70	18.69
20	256QAM	100	0	18.64	18.69	18.52
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.70	23.82	23.75
15	QPSK	1	37	23.61	23.67	23.60

15	QPSK	1	74	23.53	23.66	23.57
15	QPSK	36	0	22.83	22.82	22.74
15	QPSK	36	20	22.85	22.83	22.70
15	QPSK	36	39	22.65	22.73	22.78
15	QPSK	75	0	22.82	22.75	22.86
15	16QAM	1	0	22.91	23.25	22.86
15	16QAM	1	37	23.24	23.15	23.12
15	16QAM	1	74	22.75	22.96	22.86
15	16QAM	36	0	21.82	21.84	21.75
15	16QAM	36	20	21.74	21.74	21.73
15	16QAM	36	39	21.74	21.73	21.80
15	16QAM	75	0	21.82	21.88	21.85
15	64QAM	1	0	21.89	22.01	21.92
15	64QAM	1	37	21.91	21.90	22.03
15	64QAM	1	74	21.78	21.89	21.83
15	64QAM	36	0	20.79	20.97	20.74
15	64QAM	36	20	20.73	20.83	20.75
15	64QAM	36	39	20.64	20.83	20.68
15	64QAM	75	0	20.70	20.71	20.74
15	256QAM	1	0	18.59	18.88	18.73
15	256QAM	1	37	18.70	18.76	18.73
15	256QAM	1	74	18.61	18.85	18.63
15	256QAM	36	0	18.62	18.75	18.68
15	256QAM	36	20	18.52	18.59	18.63
15	256QAM	36	39	18.52	18.67	18.53
15	256QAM	75	0	18.50	18.63	18.38
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.63	23.84	23.78
10	QPSK	1	25	23.64	23.70	23.65
10	QPSK	1	49	23.59	23.66	23.60
10	QPSK	25	0	22.69	22.96	22.66
10	QPSK	25	12	22.71	22.81	22.81
10	QPSK	25	25	22.70	22.80	22.78
10	QPSK	50	0	22.73	22.69	22.85
10	16QAM	1	0	23.04	23.24	22.90
10	16QAM	1	25	23.16	23.23	23.12
10	16QAM	1	49	22.90	22.94	22.96
10	16QAM	25	0	21.85	21.88	21.78
10	16QAM	25	12	21.77	21.79	21.76
10	16QAM	25	25	21.73	21.73	21.79
10	16QAM	50	0	21.68	21.78	21.71
10	64QAM	1	0	21.79	21.99	21.82
10	64QAM	1	25	21.89	21.99	22.01
10	64QAM	1	49	21.75	21.78	21.80

10	64QAM	25	0	20.78	20.83	20.73
10	64QAM	25	12	20.78	20.81	20.80
10	64QAM	25	25	20.62	20.68	20.66
10	64QAM	50	0	20.77	20.75	20.81
10	256QAM	1	0	18.66	18.72	18.80
10	256QAM	1	25	18.66	18.69	18.69
10	256QAM	1	49	18.68	18.66	18.70
10	256QAM	25	0	18.54	18.58	18.60
10	256QAM	25	12	18.47	18.59	18.58
10	256QAM	25	25	18.56	18.66	18.57
10	256QAM	50	0	18.63	18.62	18.51
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.77	23.74	23.71
5	QPSK	1	12	23.67	23.70	23.74
5	QPSK	1	24	23.50	23.54	23.53
5	QPSK	12	0	22.79	22.93	22.66
5	QPSK	12	7	22.83	22.71	22.79
5	QPSK	12	13	22.65	22.71	22.66
5	QPSK	25	0	22.64	22.73	22.82
5	16QAM	1	0	23.06	23.14	22.91
5	16QAM	1	12	23.09	23.12	23.19
5	16QAM	1	24	22.77	22.81	22.92
5	16QAM	12	0	21.82	21.84	21.75
5	16QAM	12	7	21.70	21.76	21.69
5	16QAM	12	13	21.81	21.76	21.87
5	16QAM	25	0	21.65	21.75	21.68
5	64QAM	1	0	21.79	22.06	21.82
5	64QAM	1	12	21.93	21.89	22.05
5	64QAM	1	24	21.73	21.88	21.78
5	64QAM	12	0	20.82	20.90	20.77
5	64QAM	12	7	20.73	20.79	20.75
5	64QAM	12	13	20.71	20.71	20.75
5	64QAM	25	0	20.69	20.67	20.73
5	256QAM	1	0	18.63	18.77	18.77
5	256QAM	1	12	18.59	18.61	18.62
5	256QAM	1	24	18.53	18.79	18.55
5	256QAM	12	0	18.48	18.64	18.54
5	256QAM	12	7	18.42	18.71	18.53
5	256QAM	12	13	18.60	18.53	18.61
5	256QAM	25	0	18.47	18.69	18.35
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.82	23.76	23.63
3	QPSK	1	8	23.73	23.77	23.72

3	QPSK	1	14	23.67	23.66	23.58
3	QPSK	8	0	22.77	22.81	22.70
3	QPSK	8	4	22.78	22.71	22.69
3	QPSK	8	7	22.76	22.68	22.85
3	QPSK	15	0	22.72	22.77	22.75
3	16QAM	1	0	22.96	23.18	22.82
3	16QAM	1	8	23.16	23.12	23.20
3	16QAM	1	14	22.83	22.91	22.82
3	16QAM	8	0	21.81	21.94	21.74
3	16QAM	8	4	21.78	21.88	21.77
3	16QAM	8	7	21.69	21.80	21.75
3	16QAM	15	0	21.69	21.83	21.72
3	64QAM	1	0	21.80	22.03	21.83
3	64QAM	1	8	21.89	21.97	22.01
3	64QAM	1	14	21.74	21.89	21.79
3	64QAM	8	0	20.75	20.94	20.70
3	64QAM	8	4	20.87	20.78	20.89
3	64QAM	8	7	20.64	20.75	20.68
3	64QAM	15	0	20.81	20.78	20.85
3	256QAM	1	0	18.56	18.79	18.70
3	256QAM	1	8	18.74	18.76	18.77
3	256QAM	1	14	18.59	18.71	18.61
3	256QAM	8	0	18.49	18.62	18.55
3	256QAM	8	4	18.44	18.69	18.55
3	256QAM	8	7	18.68	18.69	18.69
3	256QAM	15	0	18.50	18.61	18.38
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.65	23.71	23.61
1.4	QPSK	1	3	23.63	23.66	23.64
1.4	QPSK	1	5	23.56	23.54	23.54
1.4	QPSK	3	0	23.55	23.58	23.57
1.4	QPSK	3	1	23.46	23.65	23.56
1.4	QPSK	3	3	23.60	23.68	23.42
1.4	QPSK	6	0	22.80	22.73	22.87
1.4	16QAM	1	0	23.02	23.10	23.06
1.4	16QAM	1	3	23.19	23.20	23.12
1.4	16QAM	1	5	22.79	22.84	22.98
1.4	16QAM	3	0	23.05	23.10	22.98
1.4	16QAM	3	1	23.05	23.15	22.99
1.4	16QAM	3	3	23.12	23.10	23.11
1.4	16QAM	6	0	21.79	21.85	21.82
1.4	64QAM	1	0	21.95	22.16	21.98
1.4	64QAM	1	3	21.99	21.93	22.11
1.4	64QAM	1	5	21.86	21.73	21.91

1.4	64QAM	3	0	21.78	22.16	21.88
1.4	64QAM	3	1	21.89	22.04	21.88
1.4	64QAM	3	3	21.82	22.14	21.85
1.4	64QAM	6	0	20.82	20.70	20.86
1.4	256QAM	1	0	18.64	18.82	18.78
1.4	256QAM	1	3	18.65	18.66	18.68
1.4	256QAM	1	5	18.55	18.83	18.57
1.4	256QAM	3	0	18.57	18.71	18.63
1.4	256QAM	3	1	18.52	18.69	18.63
1.4	256QAM	3	3	18.60	18.64	18.61
1.4	256QAM	6	0	18.56	18.65	18.44

LTE Band 4_Ant 5						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.81	23.87	23.80
20	QPSK	1	49	23.72	23.77	23.75
20	QPSK	1	99	23.75	23.80	23.72
20	QPSK	50	0	22.90	22.97	22.91
20	QPSK	50	24	22.89	22.92	22.89
20	QPSK	50	50	22.86	22.90	22.84
20	QPSK	100	0	22.85	22.95	22.93
20	16QAM	1	0	23.08	23.24	23.26
20	16QAM	1	49	23.33	23.25	23.30
20	16QAM	1	99	23.01	23.21	23.16
20	16QAM	50	0	21.82	21.85	21.93
20	16QAM	50	24	21.90	21.96	22.01
20	16QAM	50	50	21.88	21.90	21.96
20	16QAM	100	0	21.87	21.91	21.98
20	64QAM	1	0	22.07	22.03	22.11
20	64QAM	1	49	22.09	22.15	22.21
20	64QAM	1	99	22.00	22.11	22.07
20	64QAM	50	0	20.81	20.87	20.91
20	64QAM	50	24	20.92	20.92	21.01
20	64QAM	50	50	20.86	20.90	20.97
20	64QAM	100	0	20.88	20.93	20.98
20	256QAM	1	0	18.64	18.78	18.65
20	256QAM	1	49	18.85	18.85	18.67
20	256QAM	1	99	18.72	18.80	18.63
20	256QAM	50	0	18.65	18.77	18.64
20	256QAM	50	24	18.56	18.70	18.63
20	256QAM	50	50	18.74	18.75	18.73
20	256QAM	100	0	18.55	18.68	18.58
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.71	23.68	23.65
15	QPSK	1	37	23.58	23.61	23.69
15	QPSK	1	74	23.57	23.73	23.54
15	QPSK	36	0	22.62	22.68	22.77
15	QPSK	36	20	22.88	22.88	22.86
15	QPSK	36	39	22.82	22.89	22.82
15	QPSK	75	0	22.79	22.87	22.90
15	16QAM	1	0	22.93	23.05	23.08
15	16QAM	1	37	23.26	23.18	23.19
15	16QAM	1	74	22.82	23.08	23.13
15	16QAM	36	0	21.82	21.73	21.93

15	16QAM	36	20	21.78	21.83	21.89
15	16QAM	36	39	21.80	21.71	21.88
15	16QAM	75	0	21.86	21.82	21.97
15	64QAM	1	0	21.88	21.85	21.92
15	64QAM	1	37	21.96	22.09	22.08
15	64QAM	1	74	21.81	22.00	21.88
15	64QAM	36	0	20.62	20.68	20.72
15	64QAM	36	20	20.83	20.89	20.92
15	64QAM	36	39	20.83	20.83	20.94
15	64QAM	75	0	20.76	20.88	20.86
15	256QAM	1	0	18.52	18.76	18.53
15	256QAM	1	37	18.74	18.85	18.56
15	256QAM	1	74	18.65	18.78	18.56
15	256QAM	36	0	18.61	18.60	18.60
15	256QAM	36	20	18.44	18.66	18.51
15	256QAM	36	39	18.59	18.59	18.58
15	256QAM	75	0	18.54	18.62	18.57
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.73	23.83	23.75
10	QPSK	1	25	23.59	23.65	23.60
10	QPSK	1	49	23.75	23.65	23.61
10	QPSK	25	0	22.80	22.79	22.86
10	QPSK	25	12	22.88	22.92	22.82
10	QPSK	25	25	22.83	22.87	22.94
10	QPSK	50	0	22.70	22.89	22.90
10	16QAM	1	0	23.05	23.21	23.13
10	16QAM	1	25	23.15	23.08	23.28
10	16QAM	1	49	22.91	23.20	23.14
10	16QAM	25	0	21.73	21.75	21.84
10	16QAM	25	12	21.86	21.86	21.97
10	16QAM	25	25	21.86	21.75	21.94
10	16QAM	50	0	21.77	21.86	21.88
10	64QAM	1	0	21.95	21.98	21.99
10	64QAM	1	25	22.01	22.01	22.13
10	64QAM	1	49	21.96	22.05	22.03
10	64QAM	25	0	20.65	20.81	20.75
10	64QAM	25	12	20.86	20.86	20.95
10	64QAM	25	25	20.82	20.76	20.93
10	64QAM	50	0	20.81	20.82	20.91
10	256QAM	1	0	18.55	18.74	18.56
10	256QAM	1	25	18.69	18.66	18.51
10	256QAM	1	49	18.59	18.71	18.50
10	256QAM	25	0	18.58	18.67	18.57
10	256QAM	25	12	18.44	18.69	18.51
10	256QAM	25	25	18.60	18.57	18.59
10	256QAM	50	0	18.43	18.58	18.46

Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.65	23.83	23.75
5	QPSK	1	12	23.65	23.63	23.62
5	QPSK	1	24	23.64	23.75	23.66
5	QPSK	12	0	22.72	22.76	22.73
5	QPSK	12	7	22.74	22.75	22.97
5	QPSK	12	13	22.68	22.86	22.93
5	QPSK	25	0	22.67	22.80	22.92
5	16QAM	1	0	22.95	23.13	23.17
5	16QAM	1	12	23.19	23.22	23.27
5	16QAM	1	24	22.88	23.20	23.13
5	16QAM	12	0	21.79	21.82	21.90
5	16QAM	12	7	21.80	21.82	21.91
5	16QAM	12	13	21.71	21.86	21.79
5	16QAM	25	0	21.82	21.91	21.93
5	64QAM	1	0	21.92	21.86	21.96
5	64QAM	1	12	21.90	21.96	22.02
5	64QAM	1	24	22.00	21.94	22.07
5	64QAM	12	0	20.75	20.83	20.85
5	64QAM	12	7	20.78	20.81	20.87
5	64QAM	12	13	20.80	20.85	20.91
5	64QAM	25	0	20.72	20.77	20.82
5	256QAM	1	0	18.47	18.65	18.48
5	256QAM	1	12	18.81	18.83	18.63
5	256QAM	1	24	18.72	18.80	18.63
5	256QAM	12	0	18.50	18.59	18.49
5	256QAM	12	7	18.52	18.59	18.59
5	256QAM	12	13	18.55	18.64	18.54
5	256QAM	25	0	18.55	18.61	18.58
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.66	23.81	23.76
3	QPSK	1	8	23.62	23.77	23.56
3	QPSK	1	14	23.61	23.71	23.64
3	QPSK	8	0	22.80	22.74	22.79
3	QPSK	8	4	22.71	22.82	22.87
3	QPSK	8	7	22.78	22.83	22.88
3	QPSK	15	0	22.69	22.84	22.81
3	16QAM	1	0	22.92	23.20	23.26
3	16QAM	1	8	23.27	23.16	23.13
3	16QAM	1	14	22.82	23.09	23.15
3	16QAM	8	0	21.71	21.85	21.82
3	16QAM	8	4	21.79	21.89	21.90
3	16QAM	8	7	21.82	21.87	21.90
3	16QAM	15	0	21.72	21.76	21.83
3	64QAM	1	0	22.00	21.93	22.04

3	64QAM	1	8	21.99	22.06	22.11
3	64QAM	1	14	21.96	22.04	22.03
3	64QAM	8	0	20.69	20.83	20.79
3	64QAM	8	4	20.85	20.77	20.94
3	64QAM	8	7	20.85	20.75	20.96
3	64QAM	15	0	20.80	20.78	20.90
3	256QAM	1	0	18.50	18.70	18.51
3	256QAM	1	8	18.83	18.76	18.65
3	256QAM	1	14	18.62	18.63	18.53
3	256QAM	8	0	18.63	18.62	18.62
3	256QAM	8	4	18.45	18.53	18.52
3	256QAM	8	7	18.58	18.75	18.57
3	256QAM	15	0	18.42	18.66	18.45
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.72	23.75	23.72
1.4	QPSK	1	3	23.62	23.65	23.64
1.4	QPSK	1	5	23.60	23.70	23.62
1.4	QPSK	3	0	23.55	23.67	23.65
1.4	QPSK	3	1	23.53	23.73	23.61
1.4	QPSK	3	3	23.57	23.56	23.58
1.4	QPSK	6	0	22.81	22.76	22.84
1.4	16QAM	1	0	22.99	23.15	23.20
1.4	16QAM	1	3	23.26	23.17	23.23
1.4	16QAM	1	5	22.86	23.02	23.12
1.4	16QAM	3	0	23.26	23.09	23.06
1.4	16QAM	3	1	23.21	23.05	23.15
1.4	16QAM	3	3	23.20	23.01	23.19
1.4	16QAM	6	0	21.74	21.84	21.85
1.4	64QAM	1	0	21.93	22.00	21.97
1.4	64QAM	1	3	22.08	22.03	22.20
1.4	64QAM	1	5	21.86	21.99	21.93
1.4	64QAM	3	0	21.82	21.97	21.90
1.4	64QAM	3	1	21.89	21.90	21.91
1.4	64QAM	3	3	21.75	21.86	21.80
1.4	64QAM	6	0	20.79	20.83	20.89
1.4	256QAM	1	0	18.55	18.78	18.56
1.4	256QAM	1	3	18.83	18.71	18.65
1.4	256QAM	1	5	18.56	18.70	18.47
1.4	256QAM	3	0	18.53	18.63	18.52
1.4	256QAM	3	1	18.50	18.57	18.57
1.4	256QAM	3	3	18.69	18.59	18.68
1.4	256QAM	6	0	18.55	18.56	18.58

LTE Band 5_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.88	24.00	23.84
10	QPSK	1	25	23.87	23.95	23.80
10	QPSK	1	49	23.85	23.87	23.75
10	QPSK	25	0	22.96	23.05	23.01
10	QPSK	25	12	22.90	23.02	22.96
10	QPSK	25	25	22.93	23.03	22.86
10	QPSK	50	0	22.86	23.01	22.90
10	16QAM	1	0	23.38	23.38	23.37
10	16QAM	1	25	23.34	23.36	23.12
10	16QAM	1	49	23.36	23.40	23.18
10	16QAM	25	0	21.93	21.96	21.86
10	16QAM	25	12	21.91	22.05	21.94
10	16QAM	25	25	21.94	22.00	21.87
10	16QAM	50	0	21.89	22.00	21.92
10	64QAM	1	0	22.16	22.30	22.13
10	64QAM	1	25	22.29	22.23	22.10
10	64QAM	1	49	22.10	22.14	22.18
10	64QAM	25	0	20.90	20.97	20.88
10	64QAM	25	12	20.90	21.08	20.92
10	64QAM	25	25	20.94	20.97	20.90
10	64QAM	50	0	20.89	20.99	20.89
10	256QAM	1	0	19.03	19.05	18.87
10	256QAM	1	25	18.91	19.00	18.85
10	256QAM	1	49	18.84	18.95	18.79
10	256QAM	25	0	18.88	19.02	18.97
10	256QAM	25	12	18.90	18.92	18.83
10	256QAM	25	25	18.90	18.96	18.88
10	256QAM	50	0	18.85	18.93	18.83
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.92	23.89	23.76
5	QPSK	1	12	23.92	23.90	23.85
5	QPSK	1	24	23.89	23.80	23.73
5	QPSK	12	0	22.95	22.87	22.76
5	QPSK	12	7	23.05	22.96	22.86
5	QPSK	12	13	23.00	22.91	22.81
5	QPSK	25	0	22.99	22.86	22.75
5	16QAM	1	0	23.29	23.18	23.23
5	16QAM	1	12	23.45	23.39	23.29
5	16QAM	1	24	23.32	23.21	23.05

5	16QAM	12	0	21.99	21.91	21.81
5	16QAM	12	7	22.06	22.01	21.94
5	16QAM	12	13	22.06	21.93	21.86
5	16QAM	25	0	22.04	21.89	21.73
5	64QAM	1	0	22.20	22.16	22.11
5	64QAM	1	12	22.37	22.05	22.16
5	64QAM	1	24	22.19	22.19	22.04
5	64QAM	12	0	20.97	20.90	20.80
5	64QAM	12	7	21.08	21.01	20.91
5	64QAM	12	13	21.08	20.98	20.87
5	64QAM	25	0	21.04	20.86	20.79
5	256QAM	1	0	19.01	18.92	18.75
5	256QAM	1	12	18.89	18.90	18.85
5	256QAM	1	24	18.74	18.80	18.62
5	256QAM	12	0	18.84	18.89	18.83
5	256QAM	12	7	18.72	18.82	18.70
5	256QAM	12	13	18.75	18.89	18.88
5	256QAM	25	0	18.67	18.93	18.77
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.90	23.78	23.76
3	QPSK	1	8	23.91	23.93	23.80
3	QPSK	1	14	23.89	23.80	23.67
3	QPSK	8	0	23.04	22.87	22.76
3	QPSK	8	4	23.07	22.98	22.81
3	QPSK	8	7	23.03	22.92	22.84
3	QPSK	15	0	23.01	22.83	22.76
3	16QAM	1	0	23.30	23.23	23.15
3	16QAM	1	8	23.44	23.40	23.21
3	16QAM	1	14	23.31	23.15	23.16
3	16QAM	8	0	22.13	21.94	21.91
3	16QAM	8	4	22.17	22.03	21.87
3	16QAM	8	7	22.12	22.02	21.95
3	16QAM	15	0	22.05	21.87	21.77
3	64QAM	1	0	22.26	22.05	22.00
3	64QAM	1	8	22.28	22.04	22.10
3	64QAM	1	14	22.13	22.18	21.86
3	64QAM	8	0	21.08	20.87	20.76
3	64QAM	8	4	21.09	21.07	20.84
3	64QAM	8	7	21.06	21.00	20.91
3	64QAM	15	0	21.04	20.90	20.78
3	256QAM	1	0	18.88	19.05	18.70
3	256QAM	1	8	18.85	18.85	18.67
3	256QAM	1	14	18.71	18.83	18.63
3	256QAM	8	0	18.72	18.96	18.91

3	256QAM	8	4	18.78	18.82	18.69
3	256QAM	8	7	18.79	18.89	18.77
3	256QAM	15	0	18.80	18.87	18.74
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.87	23.83	23.70
1.4	QPSK	1	3	23.97	23.81	23.78
1.4	QPSK	1	5	23.95	23.87	23.75
1.4	QPSK	3	0	23.93	23.90	23.79
1.4	QPSK	3	1	23.98	23.88	23.80
1.4	QPSK	3	3	23.93	23.90	23.76
1.4	QPSK	6	0	21.98	21.82	21.83
1.4	16QAM	1	0	23.38	23.37	23.13
1.4	16QAM	1	3	23.37	23.35	23.16
1.4	16QAM	1	5	23.50	23.32	23.08
1.4	16QAM	3	0	23.21	22.98	23.02
1.4	16QAM	3	1	23.17	23.10	22.92
1.4	16QAM	3	3	23.23	23.04	22.96
1.4	16QAM	6	0	22.01	21.91	21.87
1.4	64QAM	1	0	22.21	22.15	21.99
1.4	64QAM	1	3	22.19	22.17	22.08
1.4	64QAM	1	5	22.15	22.12	21.88
1.4	64QAM	3	0	22.11	21.99	21.96
1.4	64QAM	3	1	22.15	22.03	21.97
1.4	64QAM	3	3	22.17	22.03	21.92
1.4	64QAM	6	0	21.01	20.86	20.86
1.4	256QAM	1	0	19.00	19.02	18.82
1.4	256QAM	1	3	18.84	18.94	18.69
1.4	256QAM	1	5	18.70	18.92	18.70
1.4	256QAM	3	0	18.81	18.85	18.84
1.4	256QAM	3	1	18.75	18.84	18.76
1.4	256QAM	3	3	18.89	18.86	18.77
1.4	256QAM	6	0	18.77	18.74	18.66

LTE Band 12_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.94	24.00	23.87
10	QPSK	1	25	23.90	23.90	23.81
10	QPSK	1	49	23.92	23.88	23.86
10	QPSK	25	0	22.95	23.01	22.93
10	QPSK	25	12	22.89	22.96	22.92
10	QPSK	25	25	22.93	23.00	22.90
10	QPSK	50	0	22.94	23.00	22.89
10	16QAM	1	0	23.22	23.28	23.18
10	16QAM	1	25	23.23	23.25	23.23
10	16QAM	1	49	23.23	23.22	23.23
10	16QAM	25	0	21.88	21.93	21.88
10	16QAM	25	12	22.02	22.02	21.93
10	16QAM	25	25	22.01	22.03	22.00
10	16QAM	50	0	21.98	21.99	21.91
10	64QAM	1	0	22.11	22.17	21.94
10	64QAM	1	25	22.09	22.28	22.27
10	64QAM	1	49	22.14	22.30	22.22
10	64QAM	25	0	20.92	20.93	20.87
10	64QAM	25	12	20.98	21.00	20.92
10	64QAM	25	25	20.99	21.01	20.99
10	64QAM	50	0	20.97	21.01	20.86
10	256QAM	1	0	18.92	19.02	18.84
10	256QAM	1	25	18.78	18.95	18.92
10	256QAM	1	49	18.82	18.90	18.90
10	256QAM	25	0	18.83	18.88	18.84
10	256QAM	25	12	18.68	18.85	18.85
10	256QAM	25	25	18.90	18.93	18.92
10	256QAM	50	0	18.84	18.84	18.68
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.78	23.85	23.82
5	QPSK	1	12	23.84	23.93	23.90
5	QPSK	1	24	23.80	23.83	23.87
5	QPSK	12	0	22.83	22.87	22.87
5	QPSK	12	7	22.95	22.96	23.00
5	QPSK	12	13	22.92	22.94	22.98
5	QPSK	25	0	22.90	22.85	22.89
5	16QAM	1	0	23.19	23.16	23.16
5	16QAM	1	12	23.20	23.28	23.26
5	16QAM	1	24	23.19	23.13	23.27

5	16QAM	12	0	21.86	21.92	21.90
5	16QAM	12	7	22.01	22.05	22.04
5	16QAM	12	13	21.96	22.00	22.01
5	16QAM	25	0	21.91	21.85	21.88
5	64QAM	1	0	21.95	22.05	22.13
5	64QAM	1	12	22.11	22.16	22.21
5	64QAM	1	24	22.14	22.11	22.05
5	64QAM	12	0	20.86	20.88	20.88
5	64QAM	12	7	20.98	21.01	21.04
5	64QAM	12	13	20.98	20.99	20.96
5	64QAM	25	0	20.92	20.87	20.91
5	256QAM	1	0	18.78	18.88	18.73
5	256QAM	1	12	18.67	18.92	18.79
5	256QAM	1	24	18.65	18.82	18.84
5	256QAM	12	0	18.81	18.74	18.72
5	256QAM	12	7	18.62	18.82	18.79
5	256QAM	12	13	18.85	18.75	18.74
5	256QAM	25	0	18.79	18.68	18.60
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.78	23.76	23.80
3	QPSK	1	8	23.90	23.88	23.89
3	QPSK	1	14	23.78	23.78	23.85
3	QPSK	8	0	22.91	22.83	22.88
3	QPSK	8	4	22.93	22.98	23.01
3	QPSK	8	7	22.94	22.97	22.96
3	QPSK	15	0	22.91	22.94	22.88
3	16QAM	1	0	23.14	23.20	23.10
3	16QAM	1	8	23.28	23.20	23.20
3	16QAM	1	14	23.19	23.18	23.11
3	16QAM	8	0	22.02	21.97	22.02
3	16QAM	8	4	22.03	22.02	22.08
3	16QAM	8	7	22.03	22.00	22.11
3	16QAM	15	0	21.93	21.93	21.91
3	64QAM	1	0	21.97	22.20	22.11
3	64QAM	1	8	22.10	22.16	22.11
3	64QAM	1	14	22.07	22.13	22.12
3	64QAM	8	0	21.02	20.89	20.97
3	64QAM	8	4	20.98	20.98	21.07
3	64QAM	8	7	20.94	21.01	21.04
3	64QAM	15	0	20.94	20.97	20.91
3	256QAM	1	0	18.77	18.98	18.84
3	256QAM	1	8	18.62	18.81	18.75
3	256QAM	1	14	18.80	18.80	18.90
3	256QAM	8	0	18.81	18.70	18.78

3	256QAM	8	4	18.51	18.80	18.78
3	256QAM	8	7	18.82	18.81	18.92
3	256QAM	15	0	18.69	18.80	18.59
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.84	23.83	23.89
1.4	QPSK	1	3	23.81	23.88	23.91
1.4	QPSK	1	5	23.81	23.81	23.89
1.4	QPSK	3	0	23.85	23.89	23.93
1.4	QPSK	3	1	23.85	23.88	23.91
1.4	QPSK	3	3	23.84	23.92	23.88
1.4	QPSK	6	0	22.87	22.90	22.93
1.4	16QAM	1	0	23.17	23.22	23.26
1.4	16QAM	1	3	23.27	23.26	23.23
1.4	16QAM	1	5	23.18	23.29	23.20
1.4	16QAM	3	0	22.99	23.08	23.12
1.4	16QAM	3	1	23.05	23.03	23.15
1.4	16QAM	3	3	23.04	22.98	23.12
1.4	16QAM	6	0	21.99	22.00	22.03
1.4	64QAM	1	0	22.18	21.99	22.11
1.4	64QAM	1	3	22.22	22.08	22.28
1.4	64QAM	1	5	22.06	21.99	22.07
1.4	64QAM	3	0	21.98	22.02	22.04
1.4	64QAM	3	1	21.99	22.06	22.09
1.4	64QAM	3	3	21.98	22.06	22.12
1.4	64QAM	6	0	20.96	20.97	20.99
1.4	256QAM	1	0	18.77	18.93	18.80
1.4	256QAM	1	3	18.66	18.88	18.92
1.4	256QAM	1	5	18.73	18.80	18.73
1.4	256QAM	3	0	18.79	18.86	18.71
1.4	256QAM	3	1	18.51	18.77	18.74
1.4	256QAM	3	3	18.76	18.86	18.88
1.4	256QAM	6	0	18.81	18.79	18.53

LTE Band 13_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23230		
Frequency (MHz)				782		
10	QPSK	1	0		23.95	
10	QPSK	1	25		23.90	
10	QPSK	1	49		23.89	
10	QPSK	25	0		22.99	
10	QPSK	25	12		22.97	
10	QPSK	25	25		22.90	
10	QPSK	50	0		22.95	
10	16QAM	1	0		23.20	
10	16QAM	1	25		23.22	
10	16QAM	1	49		23.24	
10	16QAM	25	0		22.00	
10	16QAM	25	12		21.99	
10	16QAM	25	25		21.96	
10	16QAM	50	0		21.97	
10	64QAM	1	0		22.15	
10	64QAM	1	25		22.21	
10	64QAM	1	49		22.14	
10	64QAM	25	0		21.01	
10	64QAM	25	12		20.98	
10	64QAM	25	25		20.91	
10	64QAM	50	0		20.95	
10	256QAM	1	0		19.06	
10	256QAM	1	25		19.02	
10	256QAM	1	49		19.00	
10	256QAM	25	0		18.95	
10	256QAM	25	12		19.00	
10	256QAM	25	25		18.88	
10	256QAM	50	0		18.94	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.80	23.84	23.76
5	QPSK	1	12	23.88	23.91	23.83
5	QPSK	1	24	23.85	23.81	23.68
5	QPSK	12	0	22.82	22.81	22.86
5	QPSK	12	7	22.95	22.85	22.88
5	QPSK	12	13	22.90	22.80	22.84
5	QPSK	25	0	22.92	22.82	22.83
5	16QAM	1	0	23.20	23.06	23.22
5	16QAM	1	12	23.30	23.25	23.27
5	16QAM	1	24	23.22	23.14	23.06

5	16QAM	12	0	21.85	21.86	21.90
5	16QAM	12	7	21.98	21.88	21.96
5	16QAM	12	13	21.99	21.87	21.93
5	16QAM	25	0	21.94	21.85	21.85
5	64QAM	1	0	22.09	22.18	22.08
5	64QAM	1	12	22.19	22.16	22.02
5	64QAM	1	24	22.17	22.08	22.06
5	64QAM	12	0	20.86	20.86	20.91
5	64QAM	12	7	20.96	20.87	20.92
5	64QAM	12	13	20.99	20.84	20.93
5	64QAM	25	0	20.95	20.85	20.85
5	256QAM	1	0	18.99	19.01	18.99
5	256QAM	1	12	19.00	19.00	18.87
5	256QAM	1	24	18.85	18.99	18.86
5	256QAM	12	0	18.81	18.84	18.81
5	256QAM	12	7	18.84	18.89	18.94
5	256QAM	12	13	18.74	18.82	18.83
5	256QAM	25	0	18.75	18.89	18.80

LTE Band 17_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.82	23.99	23.80
10	QPSK	1	25	23.80	23.85	23.76
10	QPSK	1	49	23.77	23.92	23.75
10	QPSK	25	0	22.89	22.99	22.97
10	QPSK	25	12	22.81	22.95	22.96
10	QPSK	25	25	22.86	22.89	22.90
10	QPSK	50	0	22.93	22.97	22.94
10	16QAM	1	0	23.26	23.20	23.20
10	16QAM	1	25	23.25	23.11	23.30
10	16QAM	1	49	23.27	23.26	23.23
10	16QAM	25	0	21.88	21.89	21.92
10	16QAM	25	12	22.03	21.95	21.97
10	16QAM	25	25	22.03	22.04	22.05
10	16QAM	50	0	21.99	21.95	21.98
10	64QAM	1	0	22.08	22.07	22.12
10	64QAM	1	25	22.09	22.10	22.27
10	64QAM	1	49	22.14	22.27	22.27
10	64QAM	25	0	20.87	20.88	21.00
10	64QAM	25	12	21.05	20.93	20.96
10	64QAM	25	25	20.99	21.01	21.02
10	64QAM	50	0	20.98	20.92	20.94
10	256QAM	1	0	18.89	18.96	18.86
10	256QAM	1	25	18.89	18.92	18.87
10	256QAM	1	49	18.87	18.88	18.72
10	256QAM	25	0	18.84	18.84	18.71
10	256QAM	25	12	18.96	19.00	18.99
10	256QAM	25	25	18.76	18.90	18.74
10	256QAM	50	0	18.75	18.87	18.80
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.73	23.82	23.75
5	QPSK	1	12	23.85	23.88	23.85
5	QPSK	1	24	23.79	23.78	23.81
5	QPSK	12	0	22.78	22.77	22.80
5	QPSK	12	7	22.88	22.81	22.91
5	QPSK	12	13	22.85	22.88	22.91
5	QPSK	25	0	22.84	22.79	22.80
5	16QAM	1	0	23.21	23.15	23.09
5	16QAM	1	12	23.27	23.27	23.30
5	16QAM	1	24	23.13	23.02	23.29

5	16QAM	12	0	21.82	21.84	21.83
5	16QAM	12	7	21.92	21.90	21.99
5	16QAM	12	13	21.95	21.96	21.98
5	16QAM	25	0	21.86	21.83	21.83
5	64QAM	1	0	21.94	21.92	22.08
5	64QAM	1	12	22.02	22.07	22.19
5	64QAM	1	24	22.05	22.05	22.02
5	64QAM	12	0	20.77	20.81	20.90
5	64QAM	12	7	20.94	20.90	20.92
5	64QAM	12	13	20.93	20.97	20.92
5	64QAM	25	0	20.85	20.81	20.86
5	256QAM	1	0	18.85	18.92	18.67
5	256QAM	1	12	18.81	18.82	18.85
5	256QAM	1	24	18.70	18.80	18.72
5	256QAM	12	0	18.68	18.68	18.55
5	256QAM	12	7	18.81	18.83	18.85
5	256QAM	12	13	18.67	18.81	18.67
5	256QAM	25	0	18.64	18.80	18.77

LTE Band 25_Ant 5						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	23.85	23.92	23.84
20	QPSK	1	49	23.83	23.77	23.81
20	QPSK	1	99	23.69	23.65	23.75
20	QPSK	50	0	22.96	22.98	22.90
20	QPSK	50	24	22.91	22.93	22.86
20	QPSK	50	50	22.89	22.85	22.89
20	QPSK	100	0	22.87	22.89	22.82
20	16QAM	1	0	23.19	23.06	23.11
20	16QAM	1	49	23.42	23.13	23.15
20	16QAM	1	99	23.07	23.02	22.95
20	16QAM	50	0	22.01	21.88	21.84
20	16QAM	50	24	21.98	21.94	21.85
20	16QAM	50	50	21.94	21.88	21.88
20	16QAM	100	0	21.98	21.91	21.84
20	64QAM	1	0	22.11	21.95	21.98
20	64QAM	1	49	22.14	22.06	22.19
20	64QAM	1	99	21.93	21.86	21.91
20	64QAM	50	0	21.01	20.86	20.83
20	64QAM	50	24	21.00	20.92	20.88
20	64QAM	50	50	20.92	20.88	20.87
20	64QAM	100	0	20.98	20.90	20.85
20	256QAM	1	0	18.83	18.88	18.84
20	256QAM	1	49	18.64	18.80	18.78
20	256QAM	1	99	18.64	18.75	18.59
20	256QAM	50	0	18.74	18.77	18.59
20	256QAM	50	24	18.79	18.79	18.75
20	256QAM	50	50	18.79	18.82	18.82
20	256QAM	100	0	18.68	18.75	18.75
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	23.79	23.69	23.68
15	QPSK	1	37	23.80	23.58	23.74
15	QPSK	1	74	23.69	23.55	23.58
15	QPSK	36	0	22.97	22.77	22.70
15	QPSK	36	20	22.92	22.84	22.78
15	QPSK	36	39	22.84	22.75	22.84
15	QPSK	75	0	22.77	22.83	22.69
15	16QAM	1	0	23.02	22.88	23.09
15	16QAM	1	37	23.26	22.98	22.96
15	16QAM	1	74	23.07	23.00	22.86
15	16QAM	36	0	21.95	21.79	21.78

15	16QAM	36	20	21.83	21.88	21.70
15	16QAM	36	39	21.82	21.81	21.76
15	16QAM	75	0	21.84	21.90	21.70
15	64QAM	1	0	22.08	21.87	21.95
15	64QAM	1	37	22.08	22.00	22.13
15	64QAM	1	74	21.93	21.86	21.91
15	64QAM	36	0	20.88	20.68	20.70
15	64QAM	36	20	20.97	20.88	20.85
15	64QAM	36	39	20.82	20.76	20.77
15	64QAM	75	0	20.88	20.90	20.75
15	256QAM	1	0	18.68	18.88	18.69
15	256QAM	1	37	18.59	18.64	18.73
15	256QAM	1	74	18.49	18.65	18.44
15	256QAM	36	0	18.57	18.70	18.42
15	256QAM	36	20	18.71	18.71	18.67
15	256QAM	36	39	18.73	18.78	18.76
15	256QAM	75	0	18.50	18.65	18.57
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	23.75	23.70	23.68
10	QPSK	1	25	23.65	23.66	23.64
10	QPSK	1	49	23.63	23.53	23.62
10	QPSK	25	0	22.92	22.83	22.69
10	QPSK	25	12	22.94	22.86	22.81
10	QPSK	25	25	22.79	22.76	22.72
10	QPSK	50	0	22.94	22.75	22.73
10	16QAM	1	0	23.06	22.99	23.02
10	16QAM	1	25	23.23	23.06	23.15
10	16QAM	1	49	22.98	23.00	22.83
10	16QAM	25	0	21.99	21.87	21.82
10	16QAM	25	12	21.89	21.75	21.76
10	16QAM	25	25	21.93	21.85	21.87
10	16QAM	50	0	21.81	21.73	21.67
10	64QAM	1	0	21.94	21.81	21.81
10	64QAM	1	25	22.06	21.88	22.11
10	64QAM	1	49	21.87	21.76	21.85
10	64QAM	25	0	20.90	20.82	20.72
10	64QAM	25	12	20.83	20.89	20.71
10	64QAM	25	25	20.83	20.74	20.78
10	64QAM	50	0	20.83	20.74	20.70
10	256QAM	1	0	18.76	18.79	18.77
10	256QAM	1	25	18.48	18.66	18.62
10	256QAM	1	49	18.51	18.60	18.46
10	256QAM	25	0	18.67	18.61	18.52
10	256QAM	25	12	18.74	18.79	18.70
10	256QAM	25	25	18.60	18.75	18.63
10	256QAM	50	0	18.58	18.70	18.65

Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	23.73	23.70	23.84
5	QPSK	1	12	23.67	23.75	23.78
5	QPSK	1	24	23.52	23.50	23.62
5	QPSK	12	0	22.98	22.79	22.75
5	QPSK	12	7	22.85	22.93	22.76
5	QPSK	12	13	22.88	22.68	22.85
5	QPSK	25	0	22.76	22.82	22.77
5	16QAM	1	0	23.01	22.87	22.98
5	16QAM	1	12	23.28	23.04	23.15
5	16QAM	1	24	23.00	23.02	22.83
5	16QAM	12	0	21.94	21.85	21.77
5	16QAM	12	7	21.94	21.91	21.81
5	16QAM	12	13	21.75	21.81	21.69
5	16QAM	25	0	21.89	21.79	21.75
5	64QAM	1	0	21.98	21.86	21.85
5	64QAM	1	12	22.03	21.88	22.08
5	64QAM	1	24	21.77	21.68	21.75
5	64QAM	12	0	20.87	20.76	20.69
5	64QAM	12	7	20.98	20.87	20.86
5	64QAM	12	13	20.89	20.74	20.84
5	64QAM	25	0	20.98	20.77	20.85
5	256QAM	1	0	18.73	18.69	18.74
5	256QAM	1	12	18.64	18.74	18.78
5	256QAM	1	24	18.64	18.59	18.59
5	256QAM	12	0	18.67	18.66	18.52
5	256QAM	12	7	18.72	18.75	18.68
5	256QAM	12	13	18.60	18.67	18.63
5	256QAM	25	0	18.66	18.71	18.73
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	23.77	23.79	23.74
3	QPSK	1	8	23.81	23.74	23.78
3	QPSK	1	14	23.65	23.49	23.65
3	QPSK	8	0	22.91	22.68	22.70
3	QPSK	8	4	22.97	22.86	22.77
3	QPSK	8	7	22.83	22.84	22.72
3	QPSK	15	0	22.88	22.84	22.63
3	16QAM	1	0	23.01	22.97	23.05
3	16QAM	1	8	23.11	23.01	22.96
3	16QAM	1	14	23.02	22.93	22.87
3	16QAM	8	0	21.90	21.82	21.73
3	16QAM	8	4	21.79	21.78	21.66
3	16QAM	8	7	21.92	21.84	21.86
3	16QAM	15	0	21.84	21.89	21.70
3	64QAM	1	0	22.06	21.83	21.93

3	64QAM	1	8	22.08	22.03	22.13
3	64QAM	1	14	21.91	21.77	21.89
3	64QAM	8	0	21.01	20.71	20.83
3	64QAM	8	4	20.83	20.78	20.71
3	64QAM	8	7	20.92	20.74	20.87
3	64QAM	15	0	20.88	20.81	20.75
3	256QAM	1	0	18.64	18.71	18.65
3	256QAM	1	8	18.49	18.66	18.63
3	256QAM	1	14	18.64	18.64	18.59
3	256QAM	8	0	18.63	18.68	18.48
3	256QAM	8	4	18.74	18.70	18.70
3	256QAM	8	7	18.65	18.69	18.68
3	256QAM	15	0	18.61	18.72	18.68
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	23.85	23.79	23.72
1.4	QPSK	1	3	23.68	23.77	23.64
1.4	QPSK	1	5	23.52	23.49	23.66
1.4	QPSK	3	0	23.75	23.62	23.66
1.4	QPSK	3	1	23.66	23.72	23.59
1.4	QPSK	3	3	23.82	23.73	23.53
1.4	QPSK	6	0	22.87	22.88	22.66
1.4	16QAM	1	0	23.00	22.99	22.97
1.4	16QAM	1	3	23.25	23.02	23.13
1.4	16QAM	1	5	23.01	22.91	22.93
1.4	16QAM	3	0	23.23	22.86	23.08
1.4	16QAM	3	1	23.14	23.00	23.06
1.4	16QAM	3	3	23.17	22.91	22.99
1.4	16QAM	6	0	21.79	21.86	21.65
1.4	64QAM	1	0	22.11	21.86	21.98
1.4	64QAM	1	3	22.10	21.95	22.15
1.4	64QAM	1	5	21.89	21.84	21.87
1.4	64QAM	3	0	22.10	21.68	21.86
1.4	64QAM	3	1	22.10	21.77	21.79
1.4	64QAM	3	3	21.94	21.82	21.86
1.4	64QAM	6	0	20.81	20.85	20.68
1.4	256QAM	1	0	18.78	18.77	18.79
1.4	256QAM	1	3	18.52	18.73	18.66
1.4	256QAM	1	5	18.62	18.75	18.57
1.4	256QAM	3	0	18.62	18.62	18.47
1.4	256QAM	3	1	18.79	18.61	18.75
1.4	256QAM	3	3	18.66	18.74	18.69
1.4	256QAM	6	0	18.57	18.65	18.64

LTE Band 26_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	24.00	24.03	23.83
15	QPSK	1	37	23.88	23.85	23.71
15	QPSK	1	74	23.62	23.73	23.53
15	QPSK	36	0	22.90	22.94	22.85
15	QPSK	36	20	22.83	22.93	22.79
15	QPSK	36	39	22.89	22.88	22.80
15	QPSK	75	0	22.81	22.91	22.82
15	16QAM	1	0	23.05	23.11	23.10
15	16QAM	1	37	23.09	23.11	23.00
15	16QAM	1	74	22.95	23.13	22.89
15	16QAM	36	0	21.88	21.92	21.79
15	16QAM	36	20	21.84	21.96	21.83
15	16QAM	36	39	21.87	21.95	21.83
15	16QAM	75	0	21.83	21.96	21.84
15	64QAM	1	0	21.94	21.93	22.04
15	64QAM	1	37	22.06	21.94	21.91
15	64QAM	1	74	21.82	22.06	21.73
15	64QAM	36	0	20.92	20.89	20.81
15	64QAM	36	20	20.86	20.93	20.80
15	64QAM	36	39	20.88	20.93	20.81
15	64QAM	75	0	20.83	20.93	20.83
15	256QAM	1	0	18.87	18.94	18.92
15	256QAM	1	37	18.81	18.99	18.89
15	256QAM	1	74	18.78	18.90	18.79
15	256QAM	36	0	18.87	18.92	18.89
15	256QAM	36	20	18.73	18.88	18.77
15	256QAM	36	39	18.68	18.86	18.78
15	256QAM	75	0	18.89	18.96	18.77
Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.92	23.83	23.79
10	QPSK	1	25	23.86	23.84	23.75
10	QPSK	1	49	23.84	23.78	23.66
10	QPSK	25	0	22.86	22.87	22.82
10	QPSK	25	12	22.97	22.91	22.88
10	QPSK	25	25	22.91	22.94	22.83
10	QPSK	50	0	22.94	22.86	22.84
10	16QAM	1	0	23.25	23.23	23.16
10	16QAM	1	25	23.23	23.16	23.16
10	16QAM	1	49	23.22	23.29	23.17

10	16QAM	25	0	21.90	21.91	21.82
10	16QAM	25	12	21.98	21.92	21.87
10	16QAM	25	25	21.98	21.94	21.84
10	16QAM	50	0	21.96	21.87	21.86
10	64QAM	1	0	22.01	22.08	22.04
10	64QAM	1	25	22.12	22.15	22.09
10	64QAM	1	49	22.08	22.00	21.93
10	64QAM	25	0	20.89	20.90	20.79
10	64QAM	25	12	20.95	20.91	20.89
10	64QAM	25	25	20.90	20.95	20.89
10	64QAM	50	0	20.93	20.88	20.79
10	256QAM	1	0	18.81	18.92	18.85
10	256QAM	1	25	18.75	18.97	18.83
10	256QAM	1	49	18.64	18.77	18.74
10	256QAM	25	0	18.75	18.91	18.85
10	256QAM	25	12	18.73	18.71	18.65
10	256QAM	25	25	18.49	18.82	18.68
10	256QAM	50	0	18.87	18.94	18.60
Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.81	23.84	23.64
5	QPSK	1	12	23.72	23.74	23.67
5	QPSK	1	24	23.83	23.87	23.66
5	QPSK	12	0	22.86	22.86	22.71
5	QPSK	12	7	22.97	22.89	22.74
5	QPSK	12	13	22.92	22.95	22.78
5	QPSK	25	0	22.91	22.85	22.73
5	16QAM	1	0	23.24	23.22	23.08
5	16QAM	1	12	23.25	23.27	23.25
5	16QAM	1	24	23.25	23.16	23.07
5	16QAM	12	0	21.90	21.89	21.77
5	16QAM	12	7	21.98	21.95	21.84
5	16QAM	12	13	21.94	21.98	21.84
5	16QAM	25	0	21.91	21.90	21.74
5	64QAM	1	0	22.08	22.12	21.99
5	64QAM	1	12	22.07	22.13	22.00
5	64QAM	1	24	22.08	22.04	21.92
5	64QAM	12	0	20.91	20.86	20.76
5	64QAM	12	7	20.98	20.91	20.79
5	64QAM	12	13	20.98	20.99	20.86
5	64QAM	25	0	20.94	20.85	20.76
5	256QAM	1	0	18.68	18.89	18.81
5	256QAM	1	12	18.72	18.86	18.87
5	256QAM	1	24	18.67	18.82	18.69
5	256QAM	12	0	18.80	18.77	18.89

5	256QAM	12	7	18.70	18.73	18.66
5	256QAM	12	13	18.63	18.81	18.69
5	256QAM	25	0	18.71	18.90	18.69
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.80	23.74	23.59
3	QPSK	1	8	23.83	23.81	23.75
3	QPSK	1	14	23.82	23.75	23.61
3	QPSK	8	0	22.94	22.85	22.73
3	QPSK	8	4	22.96	22.89	22.75
3	QPSK	8	7	22.92	22.92	22.78
3	QPSK	15	0	22.89	22.85	22.71
3	16QAM	1	0	23.13	23.13	23.02
3	16QAM	1	8	23.11	23.17	23.17
3	16QAM	1	14	23.04	23.14	23.02
3	16QAM	8	0	22.02	21.90	21.85
3	16QAM	8	4	22.04	22.00	21.79
3	16QAM	8	7	21.99	22.05	21.87
3	16QAM	15	0	21.95	21.89	21.73
3	64QAM	1	0	22.06	22.06	21.87
3	64QAM	1	8	22.18	22.15	21.94
3	64QAM	1	14	22.15	21.98	21.73
3	64QAM	8	0	20.98	20.89	20.76
3	64QAM	8	4	20.99	20.96	20.86
3	64QAM	8	7	20.95	20.99	20.83
3	64QAM	15	0	20.96	20.89	20.73
3	256QAM	1	0	18.79	18.91	18.74
3	256QAM	1	8	18.63	18.95	18.77
3	256QAM	1	14	18.67	18.82	18.73
3	256QAM	8	0	18.69	18.75	18.78
3	256QAM	8	4	18.64	18.81	18.65
3	256QAM	8	7	18.66	18.82	18.71
3	256QAM	15	0	18.76	18.95	18.59
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.84	23.76	23.67
1.4	QPSK	1	3	23.81	23.88	23.74
1.4	QPSK	1	5	23.84	23.82	23.71
1.4	QPSK	3	0	23.85	23.87	23.74
1.4	QPSK	3	1	23.80	23.80	23.77
1.4	QPSK	3	3	23.85	23.86	23.72
1.4	QPSK	6	0	22.91	22.82	22.76
1.4	16QAM	1	0	23.13	23.10	23.04
1.4	16QAM	1	3	23.15	23.13	23.13
1.4	16QAM	1	5	23.19	23.15	23.07

1.4	16QAM	3	0	23.11	22.98	22.87
1.4	16QAM	3	1	23.08	22.98	22.83
1.4	16QAM	3	3	23.07	23.02	22.91
1.4	16QAM	6	0	21.99	21.89	21.84
1.4	64QAM	1	0	22.05	21.90	21.89
1.4	64QAM	1	3	22.10	22.15	21.90
1.4	64QAM	1	5	22.02	22.03	21.87
1.4	64QAM	3	0	22.08	21.92	21.78
1.4	64QAM	3	1	22.04	21.97	21.85
1.4	64QAM	3	3	22.03	22.02	21.88
1.4	64QAM	6	0	20.93	20.90	20.83
1.4	256QAM	1	0	18.87	18.90	18.77
1.4	256QAM	1	3	18.77	18.87	18.74
1.4	256QAM	1	5	18.74	18.72	18.78
1.4	256QAM	3	0	18.86	18.87	18.70
1.4	256QAM	3	1	18.63	18.85	18.70
1.4	256QAM	3	3	18.56	18.68	18.75
1.4	256QAM	6	0	18.84	18.88	18.74

LTE Band 66_Ant 5						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	23.79	23.99	23.89
20	QPSK	1	49	23.78	23.93	23.86
20	QPSK	1	99	23.75	23.83	23.67
20	QPSK	50	0	22.94	22.99	22.94
20	QPSK	50	24	22.93	22.91	22.96
20	QPSK	50	50	22.89	22.93	22.92
20	QPSK	100	0	22.91	22.96	22.95
20	16QAM	1	0	23.22	23.33	23.23
20	16QAM	1	49	23.34	23.46	23.44
20	16QAM	1	99	23.07	23.14	23.21
20	16QAM	50	0	21.87	22.02	22.01
20	16QAM	50	24	21.95	22.00	21.98
20	16QAM	50	50	21.92	21.96	21.95
20	16QAM	100	0	21.91	21.97	21.95
20	64QAM	1	0	22.02	22.07	22.16
20	64QAM	1	49	22.12	22.11	22.22
20	64QAM	1	99	22.12	22.20	21.84
20	64QAM	50	0	20.85	21.02	21.00
20	64QAM	50	24	20.95	21.01	20.97
20	64QAM	50	50	20.93	20.95	20.91
20	64QAM	100	0	20.91	20.93	20.94
20	256QAM	1	0	18.85	19.04	19.00
20	256QAM	1	49	18.92	18.99	18.99
20	256QAM	1	99	18.79	18.94	18.91
20	256QAM	50	0	18.86	18.90	18.89
20	256QAM	50	24	18.69	18.85	18.71
20	256QAM	50	50	18.87	18.92	18.75
20	256QAM	100	0	18.72	18.88	18.74
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.75	23.87	23.84
15	QPSK	1	37	23.72	23.91	23.80
15	QPSK	1	74	23.68	23.67	23.61
15	QPSK	36	0	22.74	22.98	22.83
15	QPSK	36	20	22.86	22.82	22.86
15	QPSK	36	39	22.80	22.80	22.91
15	QPSK	75	0	22.78	22.76	22.82
15	16QAM	1	0	23.07	23.20	23.10
15	16QAM	1	37	23.34	23.34	23.34
15	16QAM	1	74	22.91	23.10	22.88
15	16QAM	36	0	21.77	21.97	21.91

15	16QAM	36	20	21.92	21.86	21.95
15	16QAM	36	39	21.84	21.96	21.87
15	16QAM	75	0	21.90	21.79	21.94
15	64QAM	1	0	21.83	22.07	21.97
15	64QAM	1	37	21.93	21.98	22.03
15	64QAM	1	74	21.95	22.17	21.67
15	64QAM	36	0	20.75	20.94	20.90
15	64QAM	36	20	20.77	20.84	20.79
15	64QAM	36	39	20.90	20.88	20.88
15	64QAM	75	0	20.89	20.93	20.92
15	256QAM	1	0	18.69	18.95	18.84
15	256QAM	1	37	18.91	18.84	18.98
15	256QAM	1	74	18.76	18.93	18.88
15	256QAM	36	0	18.78	18.78	18.81
15	256QAM	36	20	18.66	18.73	18.68
15	256QAM	36	39	18.75	18.74	18.63
15	256QAM	75	0	18.58	18.70	18.60
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	23.71	23.83	23.66
10	QPSK	1	25	23.75	23.77	23.80
10	QPSK	1	49	23.69	23.83	23.62
10	QPSK	25	0	22.74	22.88	22.96
10	QPSK	25	12	22.76	22.96	22.82
10	QPSK	25	25	22.85	22.83	22.82
10	QPSK	50	0	22.79	22.94	22.85
10	16QAM	1	0	23.12	23.29	23.12
10	16QAM	1	25	23.19	23.16	23.10
10	16QAM	1	49	22.95	23.08	22.89
10	16QAM	25	0	21.76	21.93	21.90
10	16QAM	25	12	21.76	21.82	21.79
10	16QAM	25	25	21.86	21.82	21.89
10	16QAM	50	0	21.87	21.97	21.91
10	64QAM	1	0	21.95	21.96	22.09
10	64QAM	1	25	22.11	22.05	22.21
10	64QAM	1	49	21.93	22.07	22.06
10	64QAM	25	0	20.81	20.95	20.96
10	64QAM	25	12	20.92	20.97	20.94
10	64QAM	25	25	20.89	20.88	20.87
10	64QAM	50	0	20.73	20.80	20.76
10	256QAM	1	0	18.73	19.03	18.88
10	256QAM	1	25	18.77	18.87	18.84
10	256QAM	1	49	18.78	18.75	18.90
10	256QAM	25	0	18.77	18.89	18.80
10	256QAM	25	12	18.66	18.71	18.68
10	256QAM	25	25	18.68	18.82	18.56
10	256QAM	50	0	18.69	18.82	18.71

Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	23.60	23.96	23.72
5	QPSK	1	12	23.77	23.74	23.80
5	QPSK	1	24	23.67	23.78	23.60
5	QPSK	12	0	22.85	22.82	22.98
5	QPSK	12	7	22.74	22.88	22.82
5	QPSK	12	13	22.76	22.78	22.92
5	QPSK	25	0	22.79	22.78	22.82
5	16QAM	1	0	23.05	23.18	23.04
5	16QAM	1	12	23.25	23.42	23.30
5	16QAM	1	24	23.00	22.99	22.96
5	16QAM	12	0	21.77	21.98	21.91
5	16QAM	12	7	21.81	21.83	21.84
5	16QAM	12	13	21.84	21.88	21.87
5	16QAM	25	0	21.81	21.84	21.85
5	64QAM	1	0	21.93	21.95	22.07
5	64QAM	1	12	22.12	22.07	22.22
5	64QAM	1	24	21.97	22.12	21.96
5	64QAM	12	0	20.76	20.83	20.91
5	64QAM	12	7	20.85	20.87	20.87
5	64QAM	12	13	20.85	20.85	20.83
5	64QAM	25	0	20.90	20.77	20.93
5	256QAM	1	0	18.85	19.04	19.00
5	256QAM	1	12	18.91	18.89	18.98
5	256QAM	1	24	18.72	18.88	18.84
5	256QAM	12	0	18.81	18.86	18.84
5	256QAM	12	7	18.60	18.67	18.62
5	256QAM	12	13	18.78	18.77	18.66
5	256QAM	25	0	18.63	18.69	18.65
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.63	23.82	23.71
3	QPSK	1	8	23.65	23.84	23.75
3	QPSK	1	14	23.56	23.77	23.52
3	QPSK	8	0	22.73	22.81	22.92
3	QPSK	8	4	22.92	22.98	22.89
3	QPSK	8	7	22.78	22.78	22.83
3	QPSK	15	0	22.86	22.84	22.84
3	16QAM	1	0	23.14	23.17	23.22
3	16QAM	1	8	23.21	23.31	23.42
3	16QAM	1	14	22.92	23.01	23.09
3	16QAM	8	0	21.77	21.86	21.91
3	16QAM	8	4	21.94	21.96	21.97
3	16QAM	8	7	21.85	21.84	21.88
3	16QAM	15	0	21.81	21.88	21.85
3	64QAM	1	0	21.83	22.04	21.97

3	64QAM	1	8	22.07	21.95	22.17
3	64QAM	1	14	22.06	22.11	21.78
3	64QAM	8	0	20.79	20.92	20.94
3	64QAM	8	4	20.88	20.84	20.90
3	64QAM	8	7	20.84	20.93	20.82
3	64QAM	15	0	20.77	20.77	20.80
3	256QAM	1	0	18.78	18.92	18.93
3	256QAM	1	8	18.86	18.83	18.93
3	256QAM	1	14	18.72	18.88	18.84
3	256QAM	8	0	18.81	18.72	18.84
3	256QAM	8	4	18.52	18.69	18.54
3	256QAM	8	7	18.85	18.80	18.73
3	256QAM	15	0	18.56	18.76	18.58
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	23.61	23.81	23.68
1.4	QPSK	1	3	23.67	23.80	23.83
1.4	QPSK	1	5	23.65	23.78	23.56
1.4	QPSK	3	0	23.45	23.78	23.68
1.4	QPSK	3	1	23.58	23.68	23.63
1.4	QPSK	3	3	23.54	23.62	23.56
1.4	QPSK	6	0	22.90	22.93	22.95
1.4	16QAM	1	0	23.03	23.16	23.21
1.4	16QAM	1	3	23.29	23.16	23.29
1.4	16QAM	1	5	22.88	23.13	22.87
1.4	16QAM	3	0	23.00	23.06	23.10
1.4	16QAM	3	1	22.89	23.08	23.03
1.4	16QAM	3	3	22.90	23.11	23.09
1.4	16QAM	6	0	21.79	21.79	21.83
1.4	64QAM	1	0	21.91	21.95	22.05
1.4	64QAM	1	3	22.07	22.01	22.17
1.4	64QAM	1	5	22.07	22.05	21.79
1.4	64QAM	3	0	21.90	21.92	22.15
1.4	64QAM	3	1	21.98	21.90	22.03
1.4	64QAM	3	3	21.99	21.93	22.05
1.4	64QAM	6	0	20.78	20.92	20.81
1.4	256QAM	1	0	18.80	19.03	18.95
1.4	256QAM	1	3	18.78	18.80	18.85
1.4	256QAM	1	5	18.71	18.94	18.83
1.4	256QAM	3	0	18.76	18.74	18.79
1.4	256QAM	3	1	18.54	18.85	18.56
1.4	256QAM	3	3	18.81	18.77	18.69
1.4	256QAM	6	0	18.64	18.72	18.66

LTE Band 71_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133297	133372
Frequency (MHz)				673	680.5	688
20	QPSK	1	0	23.82	24.04	23.74
20	QPSK	1	49	23.80	23.94	23.71
20	QPSK	1	99	23.78	23.83	23.61
20	QPSK	50	0	23.11	23.14	23.07
20	QPSK	50	24	23.06	23.11	23.03
20	QPSK	50	50	22.92	23.00	22.95
20	QPSK	100	0	23.03	23.11	23.04
20	16QAM	1	0	23.21	23.29	23.27
20	16QAM	1	49	23.13	23.14	23.08
20	16QAM	1	99	23.16	23.20	23.19
20	16QAM	50	0	22.10	22.20	22.17
20	16QAM	50	24	22.01	22.13	22.11
20	16QAM	50	50	22.01	22.03	21.96
20	16QAM	100	0	22.03	22.04	21.96
20	64QAM	1	0	22.26	22.27	22.18
20	64QAM	1	49	22.22	22.26	22.19
20	64QAM	1	99	22.07	22.12	22.08
20	64QAM	50	0	21.06	21.16	21.06
20	64QAM	50	24	21.06	21.14	21.06
20	64QAM	50	50	20.90	20.96	20.90
20	64QAM	100	0	21.01	21.12	21.00
20	256QAM	1	0	18.82	18.95	18.86
20	256QAM	1	49	18.80	18.93	18.85
20	256QAM	1	99	18.86	18.88	18.77
20	256QAM	50	0	18.79	18.84	18.80
20	256QAM	50	24	18.89	18.96	18.94
20	256QAM	50	50	18.82	18.90	18.84
20	256QAM	100	0	18.83	18.87	18.70
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	23.73	23.92	23.64
15	QPSK	1	37	23.75	23.92	23.68
15	QPSK	1	74	23.74	23.82	23.58
15	QPSK	36	0	22.97	23.11	22.93
15	QPSK	36	20	23.10	23.08	23.04
15	QPSK	36	39	22.81	22.90	22.94
15	QPSK	75	0	23.02	23.06	22.98
15	16QAM	1	0	23.13	23.24	23.20
15	16QAM	1	37	23.06	23.11	23.03
15	16QAM	1	74	23.04	23.18	23.15

15	16QAM	36	0	22.06	22.13	22.16
15	16QAM	36	20	21.90	22.07	21.99
15	16QAM	36	39	21.93	21.95	21.92
15	16QAM	75	0	21.94	21.93	21.84
15	64QAM	1	0	22.15	22.18	22.09
15	64QAM	1	37	22.11	22.23	22.11
15	64QAM	1	74	21.97	22.00	22.05
15	64QAM	36	0	21.03	21.12	21.01
15	64QAM	36	20	21.00	21.02	21.00
15	64QAM	36	39	20.82	20.85	20.82
15	64QAM	75	0	20.96	21.06	20.94
15	256QAM	1	0	18.77	18.87	18.78
15	256QAM	1	37	18.72	18.89	18.80
15	256QAM	1	74	18.77	18.78	18.69
15	256QAM	36	0	18.74	18.78	18.73
15	256QAM	36	20	18.79	18.91	18.92
15	256QAM	36	39	18.76	18.82	18.72
15	256QAM	75	0	18.81	18.85	18.66
Channel				133172	133297	133422
Frequency (MHz)				668	680.5	693
10	QPSK	1	0	23.81	24.02	23.58
10	QPSK	1	25	23.75	23.84	23.65
10	QPSK	1	49	23.66	23.72	23.60
10	QPSK	25	0	23.01	23.06	23.02
10	QPSK	25	12	23.01	23.05	23.05
10	QPSK	25	25	22.82	22.95	22.92
10	QPSK	50	0	22.98	22.99	22.99
10	16QAM	1	0	23.14	23.27	23.19
10	16QAM	1	25	23.10	23.10	22.97
10	16QAM	1	49	23.10	23.10	23.13
10	16QAM	25	0	22.00	22.14	22.07
10	16QAM	25	12	21.94	22.03	22.05
10	16QAM	25	25	21.90	22.01	21.88
10	16QAM	50	0	21.93	21.95	21.86
10	64QAM	1	0	22.15	22.25	22.11
10	64QAM	1	25	22.13	22.20	22.09
10	64QAM	1	49	22.03	22.07	22.01
10	64QAM	25	0	21.01	21.07	20.96
10	64QAM	25	12	20.99	21.02	21.05
10	64QAM	25	25	20.82	20.84	20.80
10	64QAM	50	0	20.90	21.03	20.92
10	256QAM	1	0	18.75	18.94	18.83
10	256QAM	1	25	18.75	18.87	18.75
10	256QAM	1	49	18.82	18.84	18.69
10	256QAM	25	0	18.69	18.78	18.75

10	256QAM	25	12	18.83	18.85	18.86
10	256QAM	25	25	18.75	18.79	18.73
10	256QAM	50	0	18.74	18.79	18.69
Channel				133147	133297	133447
Frequency (MHz)				665.5	680.5	695.5
5	QPSK	1	0	23.73	23.97	23.68
5	QPSK	1	12	23.71	23.91	23.67
5	QPSK	1	24	23.74	23.79	23.57
5	QPSK	12	0	22.98	23.12	22.98
5	QPSK	12	7	23.04	23.04	22.97
5	QPSK	12	13	22.86	22.92	22.84
5	QPSK	25	0	22.98	23.09	23.02
5	16QAM	1	0	23.11	23.18	23.20
5	16QAM	1	12	23.03	23.13	23.07
5	16QAM	1	24	23.09	23.08	23.07
5	16QAM	12	0	22.07	22.17	22.06
5	16QAM	12	7	21.92	22.07	22.07
5	16QAM	12	13	21.97	21.96	21.90
5	16QAM	25	0	21.91	22.01	21.91
5	64QAM	1	0	22.17	22.23	22.13
5	64QAM	1	12	22.14	22.14	22.10
5	64QAM	1	24	21.99	22.04	22.00
5	64QAM	12	0	20.99	21.15	20.95
5	64QAM	12	7	20.99	21.13	20.94
5	64QAM	12	13	20.88	20.92	20.84
5	64QAM	25	0	20.93	21.05	20.97
5	256QAM	1	0	18.73	18.83	18.76
5	256QAM	1	12	18.77	18.82	18.74
5	256QAM	1	24	18.77	18.78	18.66
5	256QAM	12	0	18.77	18.78	18.70
5	256QAM	12	7	18.88	18.89	18.91
5	256QAM	12	13	18.75	18.86	18.80
5	256QAM	25	0	18.73	18.81	18.66

ERP/EIRP

LTE Band 2 (GT - LC = -2.0 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	23.65	23.71	23.61	23.82	23.76	23.63	23.77	23.74	23.71
Conducted Power (Watts)	0.2317	0.2350	0.2296	0.2410	0.2377	0.2307	0.2382	0.2366	0.2350
EIRP(dBm)	21.65	21.71	21.61	21.82	21.76	21.63	21.77	21.74	21.71
EIRP(Watts)	0.1462	0.1483	0.1449	0.1521	0.1500	0.1455	0.1503	0.1493	0.1483

LTE Band 2 (GT - LC = -2.0 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	23.63	23.84	23.78	23.70	23.82	23.75	23.82	23.90	23.78
Conducted Power (Watts)	0.2307	0.2421	0.2388	0.2344	0.2410	0.2371	0.2410	0.2455	0.2388
EIRP(dBm)	21.63	21.84	21.78	21.70	21.82	21.75	21.82	21.90	21.78
EIRP(Watts)	0.1455	0.1528	0.1507	0.1479	0.1521	0.1496	0.1521	0.1549	0.1507

LTE Band 2 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	23.19	23.20	23.12	23.16	23.12	23.20	23.09	23.12	23.19
Conducted Power (Watts)	0.2084	0.2089	0.2051	0.2070	0.2051	0.2089	0.2037	0.2051	0.2084
EIRP(dBm)	21.19	21.20	21.12	21.16	21.12	21.20	21.09	21.12	21.19
EIRP(Watts)	0.1315	0.1318	0.1294	0.1306	0.1294	0.1318	0.1285	0.1294	0.1315

LTE Band 2 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	23.04	23.24	22.90	22.91	23.25	22.86	23.09	23.29	23.00
Conducted Power (Watts)	0.2014	0.2109	0.1950	0.1954	0.2113	0.1932	0.2037	0.2133	0.1995
EIRP(dBm)	21.04	21.24	20.90	20.91	21.25	20.86	21.09	21.29	21.00
EIRP(Watts)	0.1271	0.1330	0.1230	0.1233	0.1334	0.1219	0.1285	0.1346	0.1259

LTE Band 2 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**18607**	**18900**	**19193**	**18615**	**18900**	**19185**	**18625**	**18900**	**19175**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1850.7**	**1880**	**1909.3**	**1851.5**	**1880**	**1908.5**	**1852.5**	**1880**	**1907.5**
Conducted Power (dBm)	21.95	22.16	21.98	21.80	22.03	21.83	21.79	22.06	21.82
Conducted Power (Watts)	0.1567	0.1644	0.1578	0.1514	0.1596	0.1524	0.1510	0.1607	0.1521
EIRP(dBm)	19.95	20.16	19.98	19.80	20.03	19.83	19.79	20.06	19.82
EIRP(Watts)	0.0989	0.1038	0.0995	0.0955	0.1007	0.0962	0.0953	0.1014	0.0959

LTE Band 2 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**18650**	**18900**	**19150**	**18675**	**18900**	**19125**	**18650**	**18900**	**19100**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1855**	**1880**	**1905**	**1857.5**	**1880**	**1902.5**	**1860**	**1880**	**1900**
Conducted Power (dBm)	21.89	21.99	22.01	21.91	21.90	22.03	21.97	22.18	22.00
Conducted Power (Watts)	0.1545	0.1581	0.1589	0.1552	0.1549	0.1596	0.1574	0.1652	0.1585
EIRP(dBm)	19.89	19.99	20.01	19.91	19.90	20.03	19.97	20.18	20.00
EIRP(Watts)	0.0975	0.0998	0.1002	0.0979	0.0977	0.1007	0.0993	0.1042	0.1000

LTE Band 2 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**18607**	**18900**	**19193**	**18615**	**18900**	**19185**	**18625**	**18900**	**19175**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1850.7**	**1880**	**1909.3**	**1851.5**	**1880**	**1908.5**	**1852.5**	**1880**	**1907.5**
Conducted Power (dBm)	18.55	18.83	18.57	18.56	18.79	18.70	18.53	18.79	18.55
Conducted Power (Watts)	0.0716	0.0764	0.0719	0.0718	0.0757	0.0741	0.0713	0.0757	0.0716
EIRP(dBm)	16.55	16.83	16.57	16.56	16.79	16.70	16.53	16.79	16.55
EIRP(Watts)	0.0452	0.0482	0.0454	0.0453	0.0478	0.0468	0.0450	0.0478	0.0452

LTE Band 2 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**18650**	**18900**	**19150**	**18675**	**18900**	**19125**	**18650**	**18900**	**19100**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1855**	**1880**	**1905**	**1857.5**	**1880**	**1902.5**	**1860**	**1880**	**1900**
Conducted Power (dBm)	18.66	18.72	18.80	18.59	18.88	18.73	18.74	18.88	18.88
Conducted Power (Watts)	0.0735	0.0745	0.0759	0.0723	0.0773	0.0746	0.0748	0.0773	0.0773
EIRP(dBm)	16.66	16.72	16.80	16.59	16.88	16.73	16.74	16.88	16.88
EIRP(Watts)	0.0463	0.0470	0.0479	0.0456	0.0488	0.0471	0.0472	0.0488	0.0488

LTE Band 4 (GT - LC = -2.0 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.72	23.75	23.72	23.66	23.81	23.76	23.65	23.83	23.75
Conducted Power (Watts)	0.2355	0.2371	0.2355	0.2323	0.2404	0.2377	0.2317	0.2415	0.2371
EIRP(dBm)	21.72	21.75	21.72	21.66	21.81	21.76	21.65	21.83	21.75
EIRP(Watts)	0.1486	0.1496	0.1486	0.1466	0.1517	0.1500	0.1462	0.1524	0.1496

LTE Band 4 (GT - LC = -2.0 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	23.73	23.83	23.75	23.57	23.73	23.54	23.81	23.87	23.80
Conducted Power (Watts)	0.2360	0.2415	0.2371	0.2275	0.2360	0.2259	0.2404	0.2438	0.2399
EIRP(dBm)	21.73	21.83	21.75	21.57	21.73	21.54	21.81	21.87	21.80
EIRP(Watts)	0.1489	0.1524	0.1496	0.1435	0.1489	0.1426	0.1517	0.1538	0.1514

LTE Band 4 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.26	23.17	23.23	23.27	23.16	23.13	23.19	23.22	23.27
Conducted Power (Watts)	0.2118	0.2075	0.2104	0.2123	0.2070	0.2056	0.2084	0.2099	0.2123
EIRP(dBm)	21.26	21.17	21.23	21.27	21.16	21.13	21.19	21.22	21.27
EIRP(Watts)	0.1337	0.1309	0.1327	0.1340	0.1306	0.1297	0.1315	0.1324	0.1340

LTE Band 4 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	23.15	23.08	23.28	23.26	23.18	23.19	23.33	23.25	23.30
Conducted Power (Watts)	0.2065	0.2032	0.2128	0.2118	0.2080	0.2084	0.2153	0.2113	0.2138
EIRP(dBm)	21.15	21.08	21.28	21.26	21.18	21.19	21.33	21.25	21.30
EIRP(Watts)	0.1303	0.1282	0.1343	0.1337	0.1312	0.1315	0.1358	0.1334	0.1349

LTE Band 4 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.08	22.03	22.20	21.99	22.06	22.11	22.00	21.94	22.07
Conducted Power (Watts)	0.1614	0.1596	0.1660	0.1581	0.1607	0.1626	0.1585	0.1563	0.1611
EIRP(dBm)	20.08	20.03	20.20	19.99	20.06	20.11	20.00	19.94	20.07
EIRP(Watts)	0.1019	0.1007	0.1047	0.0998	0.1014	0.1026	0.1000	0.0986	0.1016

LTE Band 4 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.01	22.01	22.13	21.96	22.09	22.08	22.09	22.15	22.21
Conducted Power (Watts)	0.1589	0.1589	0.1633	0.1570	0.1618	0.1614	0.1618	0.1641	0.1663
EIRP(dBm)	20.01	20.01	20.13	19.96	20.09	20.08	20.09	20.15	20.21
EIRP(Watts)	0.1002	0.1002	0.1030	0.0991	0.1021	0.1019	0.1021	0.1035	0.1050

LTE Band 4 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	18.83	18.71	18.65	18.83	18.76	18.65	18.81	18.83	18.63
Conducted Power (Watts)	0.0764	0.0743	0.0733	0.0764	0.0752	0.0733	0.0760	0.0764	0.0729
EIRP(dBm)	16.83	16.71	16.65	16.83	16.76	16.65	16.81	16.83	16.63
EIRP(Watts)	0.0482	0.0469	0.0462	0.0482	0.0474	0.0462	0.0480	0.0482	0.0460

LTE Band 4 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	18.55	18.74	18.56	18.74	18.85	18.56	18.85	18.85	18.67
Conducted Power (Watts)	0.0716	0.0748	0.0718	0.0748	0.0767	0.0718	0.0767	0.0767	0.0736
EIRP(dBm)	16.55	16.74	16.56	16.74	16.85	16.56	16.85	16.85	16.67
EIRP(Watts)	0.0452	0.0472	0.0453	0.0472	0.0484	0.0453	0.0484	0.0484	0.0465

LTE Band 5 (GT - LC = -4.0 dB) QPSK									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**20407**	**20525**	**20643**	**20415**	**20525**	**20635**	**20425**	**20525**	**20625**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	23.98	23.88	23.80	23.91	23.93	23.80	23.92	23.90	23.85
Conducted Power (Watts)	0.2500	0.2443	0.2399	0.2460	0.2472	0.2399	0.2466	0.2455	0.2427
ERP(dBm)	17.83	17.73	17.65	17.76	17.78	17.65	17.77	17.75	17.70
ERP(Watts)	0.0607	0.0593	0.0582	0.0597	0.0600	0.0582	0.0598	0.0596	0.0589

LTE Band 5 (GT - LC = -4.0 dB) QPSK			
Bandwidth	**10M**		
Channel	**20450**	**20525**	**20600**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**829**	**836.5**	**844**
Conducted Power (dBm)	23.88	24.00	23.84
Conducted Power (Watts)	0.2443	0.2512	0.2421
ERP(dBm)	17.73	17.85	17.69
ERP(Watts)	0.0593	0.0610	0.0587

LTE Band 5 (GT - LC = -4.0 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	23.50	23.32	23.08	23.44	23.40	23.21	23.45	23.39	23.29
Conducted Power (Watts)	0.2239	0.2148	0.2032	0.2208	0.2188	0.2094	0.2213	0.2183	0.2133
ERP(dBm)	17.35	17.17	16.93	17.29	17.25	17.06	17.30	17.24	17.14
ERP(Watts)	0.0543	0.0521	0.0493	0.0536	0.0531	0.0508	0.0537	0.0530	0.0518

LTE Band 5 (GT - LC = -4.0 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	23.36	23.40	23.18
Conducted Power (Watts)	0.2168	0.2188	0.2080
ERP(dBm)	17.21	17.25	17.03
ERP(Watts)	0.0526	0.0531	0.0505

LTE Band 5 (GT - LC = -4.0 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.21	22.15	21.99	22.28	22.04	22.10	22.37	22.05	22.16
Conducted Power (Watts)	0.1663	0.1641	0.1581	0.1690	0.1600	0.1622	0.1726	0.1603	0.1644
ERP(dBm)	16.06	16.00	15.84	16.13	15.89	15.95	16.22	15.90	16.01
ERP(Watts)	0.0404	0.0398	0.0384	0.0410	0.0388	0.0394	0.0419	0.0389	0.0399

LTE Band 5 (GT - LC = -4.0 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	22.16	22.30	22.13
Conducted Power (Watts)	0.1644	0.1698	0.1633
ERP(dBm)	16.01	16.15	15.98
ERP(Watts)	0.0399	0.0412	0.0396

LTE Band 5 (GT - LC = -4.0 dB) 256QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**20407**	**20525**	**20643**	**20415**	**20525**	**20635**	**20425**	**20525**	**20625**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	19.00	19.02	18.82	18.88	19.05	18.70	19.01	18.92	18.75
Conducted Power (Watts)	0.0794	0.0798	0.0762	0.0773	0.0804	0.0741	0.0796	0.0780	0.0750
ERP(dBm)	12.85	12.87	12.67	12.73	12.90	12.55	12.86	12.77	12.60
ERP(Watts)	0.0193	0.0194	0.0185	0.0187	0.0195	0.0180	0.0193	0.0189	0.0182

LTE Band 5 (GT - LC = -4.0 dB) 256QAM			
Bandwidth	**10M**		
Channel	**20450**	**20525**	**20600**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**829**	**836.5**	**844**
Conducted Power (dBm)	19.03	19.05	18.87
Conducted Power (Watts)	0.0800	0.0804	0.0771
ERP(dBm)	12.88	12.90	12.72
ERP(Watts)	0.0194	0.0195	0.0187

LTE Band 12 (GT - LC = -4.0 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	23.85	23.89	23.93	23.90	23.88	23.89	23.84	23.93	23.90
Conducted Power (Watts)	0.2427	0.2449	0.2472	0.2455	0.2443	0.2449	0.2421	0.2472	0.2455
ERP(dBm)	17.70	17.74	17.78	17.75	17.73	17.74	17.69	17.78	17.75
ERP(Watts)	0.0589	0.0594	0.0600	0.0596	0.0593	0.0594	0.0587	0.0600	0.0596

LTE Band 12 (GT - LC = -4.0 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.94	24.00	23.87
Conducted Power (Watts)	0.2477	0.2512	0.2438
ERP(dBm)	17.79	17.85	17.72
ERP(Watts)	0.0601	0.0610	0.0592

LTE Band 12 (GT - LC = -4.0dB) 16QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**23017**	**23095**	**23173**	**23025**	**23095**	**23165**	**23035**	**23095**	**23155**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**699.7**	**707.5**	**715.3**	**700.5**	**707.5**	**714.5**	**701.5**	**707.5**	**713.5**
Conducted Power (dBm)	23.18	23.29	23.20	23.28	23.20	23.20	23.20	23.28	23.26
Conducted Power (Watts)	0.2080	0.2133	0.2089	0.2128	0.2089	0.2089	0.2089	0.2128	0.2118
ERP(dBm)	17.03	17.14	17.05	17.13	17.05	17.05	17.05	17.13	17.11
ERP(Watts)	0.0505	0.0518	0.0507	0.0516	0.0507	0.0507	0.0507	0.0516	0.0514

LTE Band 12 (GT - LC = -4.0dB) 16QAM			
Bandwidth	**10M**		
Channel	**23060**	**23095**	**23130**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**704**	**707.5**	**711**
Conducted Power (dBm)	23.22	23.28	23.18
Conducted Power (Watts)	0.2099	0.2128	0.2080
ERP(dBm)	17.07	17.13	17.03
ERP(Watts)	0.0509	0.0516	0.0505

LTE Band 12 (GT - LC = -4.0 dB) 64QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**23017**	**23095**	**23173**	**23025**	**23095**	**23165**	**23035**	**23095**	**23155**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**699.7**	**707.5**	**715.3**	**700.5**	**707.5**	**714.5**	**701.5**	**707.5**	**713.5**
Conducted Power (dBm)	22.22	22.08	22.28	21.97	22.20	22.11	22.11	22.16	22.21
Conducted Power (Watts)	0.1667	0.1614	0.1690	0.1574	0.1660	0.1626	0.1626	0.1644	0.1663
ERP(dBm)	16.07	15.93	16.13	15.82	16.05	15.96	15.96	16.01	16.06
ERP(Watts)	0.0405	0.0392	0.0410	0.0382	0.0403	0.0394	0.0394	0.0399	0.0404

LTE Band 12 (GT - LC = -4.0 dB) 64QAM			
Bandwidth	**10M**		
Channel	**23060**	**23095**	**23130**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**704**	**707.5**	**711**
Conducted Power (dBm)	22.14	22.30	22.22
Conducted Power (Watts)	0.1637	0.1698	0.1667
ERP(dBm)	15.99	16.15	16.07
ERP(Watts)	0.0397	0.0412	0.0405

LTE Band 12 (GT - LC = -4.0 dB) 256QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**23017**	**23095**	**23173**	**23025**	**23095**	**23165**	**23035**	**23095**	**23155**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**699.7**	**707.5**	**715.3**	**700.5**	**707.5**	**714.5**	**701.5**	**707.5**	**713.5**
Conducted Power (dBm)	18.77	18.93	18.80	18.77	18.98	18.84	18.67	18.92	18.79
Conducted Power (Watts)	0.0753	0.0782	0.0759	0.0753	0.0791	0.0766	0.0736	0.0780	0.0757
ERP(dBm)	12.62	12.78	12.65	12.62	12.83	12.69	12.52	12.77	12.64
ERP(Watts)	0.0183	0.0190	0.0184	0.0183	0.0192	0.0186	0.0179	0.0189	0.0184

LTE Band 12 (GT - LC = -4.0 dB) 256QAM			
Bandwidth	**10M**		
Channel	**23060**	**23095**	**23130**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**704**	**707.5**	**711**
Conducted Power (dBm)	18.92	19.02	18.84
Conducted Power (Watts)	0.0780	0.0798	0.0766
ERP(dBm)	12.77	12.87	12.69
ERP(Watts)	0.0189	0.0194	0.0186

LTE Band 13 (GT - LC = -4.0 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	23.88	23.91	23.83	-	23.95	-
Conducted Power (Watts)	0.2443	0.2460	0.2415	-	0.2483	-
ERP(dBm)	17.73	17.76	17.68	-	17.80	-
ERP(Watts)	0.0593	0.0597	0.0586	-	0.0603	-

LTE Band 13 (GT - LC = -4.0 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	23.30	23.25	23.27	-	23.24	-
Conducted Power (Watts)	0.2138	0.2113	0.2123	-	0.2109	-
ERP(dBm)	17.15	17.10	17.12	-	17.09	-
ERP(Watts)	0.0519	0.0513	0.0515	-	0.0512	-

LTE Band 13 (GT - LC = -4.0 dB) 64QAM						
Bandwidth	**5M**			**10M**		
Channel	**23205**	**23230**	**23255**	**23230**		
	(Low)	**(Mid)**	**(High)**	**-**	**(Mid)**	**-**
Frequency (MHz)	**779.5**	**782**	**784.5**	**-**	**782**	**-**
Conducted Power (dBm)	22.19	22.16	22.02	-	22.21	-
Conducted Power (Watts)	0.1656	0.1644	0.1592	-	0.1663	-
ERP(dBm)	16.04	16.01	15.87	-	16.06	-
ERP(Watts)	0.0402	0.0399	0.0386	-	0.0404	-

LTE Band 13 (GT - LC = -4.0 dB) 256QAM						
Bandwidth	**5M**			**10M**		
Channel	**23205**	**23230**	**23255**	**23230**		
	(Low)	**(Mid)**	**(High)**	**-**	**(Mid)**	**-**
Frequency (MHz)	**779.5**	**782**	**784.5**	**-**	**782**	**-**
Conducted Power (dBm)	18.99	19.01	18.99	-	19.06	-
Conducted Power (Watts)	0.0793	0.0796	0.0793	-	0.0805	-
ERP(dBm)	12.84	12.86	12.84	-	12.91	-
ERP(Watts)	0.0192	0.0193	0.0192	-	0.0195	-

LTE Band 17 (GT - LC = -4.0 dB) QPSK						
Bandwidth	**5M**			**10M**		
Channel	**23755**	**23790**	**23825**	**23780**	**23790**	**23800**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**706.5**	**710**	**713.5**	**709**	**710**	**711**
Conducted Power (dBm)	23.85	23.88	23.85	23.82	23.99	23.80
Conducted Power (Watts)	0.2427	0.2443	0.2427	0.2410	0.2506	0.2399
ERP(dBm)	17.70	17.73	17.70	17.67	17.84	17.65
ERP(Watts)	0.0589	0.0593	0.0589	0.0585	0.0608	0.0582

LTE Band 17 (GT - LC = -4.0 dB) 16QAM						
Bandwidth	**5M**			**10M**		
Channel	**23755**	**23790**	**23825**	**23780**	**23790**	**23800**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**706.5**	**710**	**713.5**	**709**	**710**	**711**
Conducted Power (dBm)	23.27	23.27	23.30	23.25	23.11	23.30
Conducted Power (Watts)	0.2123	0.2123	0.2138	0.2113	0.2046	0.2138
ERP(dBm)	17.12	17.12	17.15	17.10	16.96	17.15
ERP(Watts)	0.0515	0.0515	0.0519	0.0513	0.0497	0.0519

LTE Band 17 (GT - LC = -4.0 dB) 64QAM						
Bandwidth	**5M**			**10M**		
Channel	**23755**	**23790**	**23825**	**23780**	**23790**	**23800**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**706.5**	**710**	**713.5**	**709**	**710**	**711**
Conducted Power (dBm)	22.02	22.07	22.19	22.14	22.27	22.27
Conducted Power (Watts)	0.1592	0.1611	0.1656	0.1637	0.1687	0.1687
ERP(dBm)	15.87	15.92	16.04	15.99	16.12	16.12
ERP(Watts)	0.0386	0.0391	0.0402	0.0397	0.0409	0.0409

LTE Band 17 (GT - LC = -4.0 dB) 256QAM						
Bandwidth	**5M**			**10M**		
Channel	**23755**	**23790**	**23825**	**23780**	**23790**	**23800**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**706.5**	**710**	**713.5**	**709**	**710**	**711**
Conducted Power (dBm)	18.85	18.92	18.67	18.96	19.00	18.99
Conducted Power (Watts)	0.0767	0.0780	0.0736	0.0787	0.0794	0.0793
ERP(dBm)	12.70	12.77	12.52	12.81	12.85	12.84
ERP(Watts)	0.0186	0.0189	0.0179	0.0191	0.0193	0.0192

LTE Band 25 (GT - LC = -2.0 dB) QPSK									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26407**	**26340**	**26683**	**26055**	**26340**	**26675**	**26065**	**26340**	**26665**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1850.7**	**1880**	**1914.3**	**1851.5**	**1880**	**1913.5**	**1852.5**	**1880**	**1912.5**
Conducted Power (dBm)	23.85	23.79	23.72	23.81	23.74	23.78	23.73	23.70	23.84
Conducted Power (Watts)	0.2427	0.2393	0.2355	0.2404	0.2366	0.2388	0.2360	0.2344	0.2421
EIRP(dBm)	21.85	21.79	21.72	21.81	21.74	21.78	21.73	21.70	21.84
EIRP(Watts)	0.1531	0.1510	0.1486	0.1517	0.1493	0.1507	0.1489	0.1479	0.1528

LTE Band 25 (GT - LC = -2.0 dB) QPSK									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**26090**	**26340**	**26640**	**26115**	**26340**	**26615**	**26140**	**26340**	**26590**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1855**	**1880**	**1910**	**1857.5**	**1880**	**1907.5**	**1860**	**1880**	**1905**
Conducted Power (dBm)	23.75	23.70	23.68	23.80	23.58	23.74	23.85	23.92	23.84
Conducted Power (Watts)	0.2371	0.2344	0.2333	0.2399	0.2280	0.2366	0.2427	0.2466	0.2421
EIRP(dBm)	21.75	21.70	21.68	21.80	21.58	21.74	21.85	21.92	21.84
EIRP(Watts)	0.1496	0.1479	0.1472	0.1514	0.1439	0.1493	0.1531	0.1556	0.1528

LTE Band 25 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	23.25	23.02	23.13	23.11	23.01	22.96	23.28	23.04	23.15
Conducted Power (Watts)	0.2113	0.2004	0.2056	0.2046	0.2000	0.1977	0.2128	0.2014	0.2065
EIRP(dBm)	21.25	21.02	21.13	21.11	21.01	20.96	21.28	21.04	21.15
EIRP(Watts)	0.1334	0.1265	0.1297	0.1291	0.1262	0.1247	0.1343	0.1271	0.1303

LTE Band 25 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	23.23	23.06	23.15	23.26	22.98	22.96	23.42	23.13	23.15
Conducted Power (Watts)	0.2104	0.2023	0.2065	0.2118	0.1986	0.1977	0.2198	0.2056	0.2065
EIRP(dBm)	21.23	21.06	21.15	21.26	20.98	20.96	21.42	21.13	21.15
EIRP(Watts)	0.1327	0.1276	0.1303	0.1337	0.1253	0.1247	0.1387	0.1297	0.1303

LTE Band 25 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	22.10	21.95	22.15	22.08	22.03	22.13	22.03	21.88	22.08
Conducted Power (Watts)	0.1622	0.1567	0.1641	0.1614	0.1596	0.1633	0.1596	0.1542	0.1614
EIRP(dBm)	20.10	19.95	20.15	20.08	20.03	20.13	20.03	19.88	20.08
EIRP(Watts)	0.1023	0.0989	0.1035	0.1019	0.1007	0.1030	0.1007	0.0973	0.1019

LTE Band 25 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	22.06	21.88	22.11	22.08	22.00	22.13	22.14	22.06	22.19
Conducted Power (Watts)	0.1607	0.1542	0.1626	0.1614	0.1585	0.1633	0.1637	0.1607	0.1656
EIRP(dBm)	20.06	19.88	20.11	20.08	20.00	20.13	20.14	20.06	20.19
EIRP(Watts)	0.1014	0.0973	0.1026	0.1019	0.1000	0.1030	0.1033	0.1014	0.1045

LTE Band 25 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26407**	**26340**	**26683**	**26055**	**26340**	**26675**	**26065**	**26340**	**26665**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1850.7**	**1880**	**1914.3**	**1851.5**	**1880**	**1913.5**	**1852.5**	**1880**	**1912.5**
Conducted Power (dBm)	18.78	18.77	18.79	18.74	18.70	18.70	18.64	18.74	18.78
Conducted Power (Watts)	0.0755	0.0753	0.0757	0.0748	0.0741	0.0741	0.0731	0.0748	0.0755
EIRP(dBm)	16.78	16.77	16.79	16.74	16.70	16.70	16.64	16.74	16.78
EIRP(Watts)	0.0476	0.0475	0.0478	0.0472	0.0468	0.0468	0.0461	0.0472	0.0476

LTE Band 25 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**26090**	**26340**	**26640**	**26115**	**26340**	**26615**	**26140**	**26340**	**26590**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**1855**	**1880**	**1910**	**1857.5**	**1880**	**1907.5**	**1860**	**1880**	**1905**
Conducted Power (dBm)	18.76	18.79	18.77	18.68	18.88	18.69	18.83	18.88	18.84
Conducted Power (Watts)	0.0752	0.0757	0.0753	0.0738	0.0773	0.0740	0.0764	0.0773	0.0766
EIRP(dBm)	16.76	16.79	16.77	16.68	16.88	16.69	16.83	16.88	16.84
EIRP(Watts)	0.0474	0.0478	0.0475	0.0466	0.0488	0.0467	0.0482	0.0488	0.0483

LTE Band 26 (GT - LC = -2.0 dB) QPSK									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26797**	**26915**	**27033**	**26805**	**26915**	**27025**	**26815**	**26915**	**27015**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	23.81	23.88	23.74	23.83	23.81	23.75	23.83	23.87	23.66
Conducted Power (Watts)	0.2404	0.2443	0.2366	0.2415	0.2404	0.2371	0.2415	0.2438	0.2323
ERP(dBm)	17.66	17.73	17.59	17.68	17.66	17.60	17.68	17.72	17.51
ERP(Watts)	0.0583	0.0593	0.0574	0.0586	0.0583	0.0575	0.0586	0.0592	0.0564

LTE Band 26 (GT - LC = -2.0 dB) QPSK							
Bandwidth	**10M**			**15M**			**15M**
Channel	**26840**	**26915**	**26990**	**26865**	**26915**	**26965**	**26790**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**
Frequency (MHz)	**829**	**836.5**	**844**	**831.5**	**836.5**	**841.5**	**824**
Conducted Power (dBm)	23.92	23.83	23.79	24.00	24.03	23.83	24.00
Conducted Power (Watts)	0.2466	0.2415	0.2393	0.2512	0.2529	0.2415	0.2512
ERP(dBm)	17.77	17.68	17.64	17.85	17.88	17.68	17.85
ERP(Watts)	0.0598	0.0586	0.0581	0.0610	0.0614	0.0586	0.0610

LTE Band 26 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26797**	**26915**	**27033**	**26805**	**26915**	**27025**	**26815**	**26915**	**27015**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	23.19	23.15	23.07	23.11	23.17	23.17	23.25	23.27	23.25
Conducted Power (Watts)	0.2084	0.2065	0.2028	0.2046	0.2075	0.2075	0.2113	0.2123	0.2113
ERP(dBm)	17.04	17.00	16.92	16.96	17.02	17.02	17.10	17.12	17.10
ERP(Watts)	0.0506	0.0501	0.0492	0.0497	0.0504	0.0504	0.0513	0.0515	0.0513

LTE Band 26 (GT - LC = -2.0 dB) 16QAM							
Bandwidth	**10M**			**15M**			**15M**
Channel	**26840**	**26915**	**26990**	**26865**	**26915**	**26965**	**26790**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**
Frequency (MHz)	**829**	**836.5**	**844**	**831.5**	**836.5**	**841.5**	**824**
Conducted Power (dBm)	23.22	23.29	23.17	22.95	23.13	22.89	23.09
Conducted Power (Watts)	0.2099	0.2133	0.2075	0.1972	0.2056	0.1945	0.2037
ERP(dBm)	17.07	17.14	17.02	16.80	16.98	16.74	16.94
ERP(Watts)	0.0509	0.0518	0.0504	0.0479	0.0499	0.0472	0.0494

LTE Band 26 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26797**	**26915**	**27033**	**26805**	**26915**	**27025**	**26815**	**26915**	**27015**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	22.10	22.15	21.90	22.18	22.15	21.94	22.07	22.13	22.00
Conducted Power (Watts)	0.1622	0.1641	0.1549	0.1652	0.1641	0.1563	0.1611	0.1633	0.1585
ERP(dBm)	15.95	16.00	15.75	16.03	16.00	15.79	15.92	15.98	15.85
ERP(Watts)	0.0394	0.0398	0.0376	0.0401	0.0398	0.0379	0.0391	0.0396	0.0385

LTE Band 26 (GT - LC = -2.0 dB) 64QAM							
Bandwidth	**10M**			**15M**			**15M**
Channel	**26840**	**26915**	**26990**	**26865**	**26915**	**26965**	**26790**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**
Frequency (MHz)	**829**	**836.5**	**844**	**831.5**	**836.5**	**841.5**	**824**
Conducted Power (dBm)	22.12	22.15	22.09	21.82	22.06	21.73	22.06
Conducted Power (Watts)	0.1629	0.1641	0.1618	0.1521	0.1607	0.1489	0.1607
ERP(dBm)	15.97	16.00	15.94	15.67	15.91	15.58	15.91
ERP(Watts)	0.0395	0.0398	0.0393	0.0369	0.0390	0.0361	0.0390

LTE Band 26 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	**1.4M**			**3M**			**5M**		
Channel	**26797**	**26915**	**27033**	**26805**	**26915**	**27025**	**26815**	**26915**	**27015**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Frequency (MHz)	**824.7**	**836.5**	**848.3**	**825.5**	**836.5**	**847.5**	**826.5**	**836.5**	**846.5**
Conducted Power (dBm)	18.87	18.90	18.77	18.63	18.95	18.77	18.71	18.90	18.69
Conducted Power (Watts)	0.0771	0.0776	0.0753	0.0729	0.0785	0.0753	0.0743	0.0776	0.0740
ERP(dBm)	12.72	12.75	12.62	12.48	12.80	12.62	12.56	12.75	12.54
ERP(Watts)	0.0187	0.0188	0.0183	0.0177	0.0191	0.0183	0.0180	0.0188	0.0179

LTE Band 26 (GT - LC = -2.0 dB) 256QAM							
Bandwidth	**10M**			**15M**			**15M**
Channel	**26840**	**26915**	**26990**	**26865**	**26915**	**26965**	**26790**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**
Frequency (MHz)	**829**	**836.5**	**844**	**831.5**	**836.5**	**841.5**	**824**
Conducted Power (dBm)	18.75	18.97	18.83	18.81	18.99	18.89	18.89
Conducted Power (Watts)	0.0750	0.0789	0.0764	0.0760	0.0793	0.0774	0.0774
ERP(dBm)	12.60	12.82	12.68	12.66	12.84	12.74	12.74
ERP(Watts)	0.0182	0.0191	0.0185	0.0185	0.0192	0.0188	0.0188

LTE Band 66 (GT - LC = --2.0 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	23.67	23.80	23.83	23.65	23.84	23.75	23.60	23.96	23.72
Conducted Power (Watts)	0.2328	0.2399	0.2415	0.2317	0.2421	0.2371	0.2291	0.2489	0.2355
EIRP(dBm)	21.67	21.80	21.83	21.65	21.84	21.75	21.60	21.96	21.72
EIRP(Watts)	0.1469	0.1514	0.1524	0.1462	0.1528	0.1496	0.1445	0.1570	0.1486

LTE Band 66 (GT - LC = --2.0 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	23.71	23.83	23.66	23.72	23.91	23.80	23.79	23.99	23.89
Conducted Power (Watts)	0.2350	0.2415	0.2323	0.2355	0.2460	0.2399	0.2393	0.2506	0.2449
EIRP(dBm)	21.71	21.83	21.66	21.72	21.91	21.80	21.79	21.99	21.89
EIRP(Watts)	0.1483	0.1524	0.1466	0.1486	0.1552	0.1514	0.1510	0.1581	0.1545

LTE Band 66 (GT - LC = --2.0 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	23.29	23.16	23.29	23.21	23.31	23.42	23.25	23.42	23.30
Conducted Power (Watts)	0.2133	0.2070	0.2133	0.2094	0.2143	0.2198	0.2113	0.2198	0.2138
EIRP(dBm)	21.29	21.16	21.29	21.21	21.31	21.42	21.25	21.42	21.30
EIRP(Watts)	0.1346	0.1306	0.1346	0.1321	0.1352	0.1387	0.1334	0.1387	0.1349

LTE Band 66 (GT - LC = --2.0 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	23.12	23.29	23.12	23.34	23.34	23.34	23.34	23.46	23.44
Conducted Power (Watts)	0.2051	0.2133	0.2051	0.2158	0.2158	0.2158	0.2158	0.2218	0.2208
EIRP(dBm)	21.12	21.29	21.12	21.34	21.34	21.34	21.34	21.46	21.44
EIRP(Watts)	0.1294	0.1346	0.1294	0.1361	0.1361	0.1361	0.1361	0.1400	0.1393

LTE Band 66 (GT - LC = --2.0 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	22.07	22.01	22.17	22.07	21.95	22.17	22.12	22.07	22.22
Conducted Power (Watts)	0.1611	0.1589	0.1648	0.1611	0.1567	0.1648	0.1629	0.1611	0.1667
EIRP(dBm)	20.07	20.01	20.17	20.07	19.95	20.17	20.12	20.07	20.22
EIRP(Watts)	0.1016	0.1002	0.1040	0.1016	0.0989	0.1040	0.1028	0.1016	0.1052

LTE Band 66 (GT - LC = --2.0 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	22.11	22.05	22.21	21.95	22.17	21.67	22.12	22.11	22.22
Conducted Power (Watts)	0.1626	0.1603	0.1663	0.1567	0.1648	0.1469	0.1629	0.1626	0.1667
EIRP(dBm)	20.11	20.05	20.21	19.95	20.17	19.67	20.12	20.11	20.22
EIRP(Watts)	0.1026	0.1012	0.1050	0.0989	0.1040	0.0927	0.1028	0.1026	0.1052

LTE Band 66 (GT - LC = --2.0 dB) 256QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	18.80	19.03	18.95	18.86	18.83	18.93	18.85	19.04	19.00
Conducted Power (Watts)	0.0759	0.0800	0.0785	0.0769	0.0764	0.0782	0.0767	0.0802	0.0794
EIRP(dBm)	16.80	17.03	16.95	16.86	16.83	16.93	16.85	17.04	17.00
EIRP(Watts)	0.0479	0.0505	0.0495	0.0485	0.0482	0.0493	0.0484	0.0506	0.0501

LTE Band 66 (GT - LC = --2.0 dB) 256QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	18.73	19.03	18.88	18.91	18.84	18.98	18.85	19.04	19.00
Conducted Power (Watts)	0.0746	0.0800	0.0773	0.0778	0.0766	0.0791	0.0767	0.0802	0.0794
EIRP(dBm)	16.73	17.03	16.88	16.91	16.84	16.98	16.85	17.04	17.00
EIRP(Watts)	0.0471	0.0505	0.0488	0.0491	0.0483	0.0499	0.0484	0.0506	0.0501

LTE Band 71 (GT - LC = -4.0 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	23.73	23.97	23.68	23.81	24.02	23.58	23.73	23.92	23.64
Conducted Power (Watts)	0.2360	0.2495	0.2333	0.2404	0.2523	0.2280	0.2360	0.2466	0.2312
ERP(dBm)	17.58	17.82	17.53	17.66	17.87	17.43	17.58	17.77	17.49
ERP(Watts)	0.0573	0.0605	0.0566	0.0583	0.0612	0.0553	0.0573	0.0598	0.0561

LTE Band 71 (GT - LC = -4.0 dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	23.82	24.04	23.74
Conducted Power (Watts)	0.2410	0.2535	0.2366
ERP(dBm)	17.67	17.89	17.59
ERP(Watts)	0.0585	0.0615	0.0574

LTE Band 71 (GT - LC = -4.0 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	23.11	23.18	23.20	23.14	23.27	23.19	23.13	23.24	23.20
Conducted Power (Watts)	0.2046	0.2080	0.2089	0.2061	0.2123	0.2084	0.2056	0.2109	0.2089
ERP(dBm)	16.96	17.03	17.05	16.99	17.12	17.04	16.98	17.09	17.05
ERP(Watts)	0.0497	0.0505	0.0507	0.0500	0.0515	0.0506	0.0499	0.0512	0.0507

LTE Band 71 (GT - LC = -4.0 dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	23.21	23.29	23.27
Conducted Power (Watts)	0.2094	0.2133	0.2123
ERP(dBm)	17.06	17.14	17.12
ERP(Watts)	0.0508	0.0518	0.0515

LTE Band 71 (GT - LC = -4.0 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	22.17	22.23	22.13	22.15	22.25	22.11	22.11	22.23	22.11
Conducted Power (Watts)	0.1648	0.1671	0.1633	0.1641	0.1679	0.1626	0.1626	0.1671	0.1626
ERP(dBm)	16.02	16.08	15.98	16.00	16.10	15.96	15.96	16.08	15.96
ERP(Watts)	0.0400	0.0406	0.0396	0.0398	0.0407	0.0394	0.0394	0.0406	0.0394

LTE Band 71 (GT - LC = -4.0 dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	22.26	22.27	22.18
Conducted Power (Watts)	0.1683	0.1687	0.1652
ERP(dBm)	16.11	16.12	16.03
ERP(Watts)	0.0408	0.0409	0.0401

LTE Band 71 (GT - LC = -4.0 dB) 256QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	18.88	18.89	18.91	18.75	18.94	18.83	18.79	18.91	18.92
Conducted Power (Watts)	0.0773	0.0774	0.0778	0.0750	0.0783	0.0764	0.0757	0.0778	0.0780
ERP(dBm)	12.73	12.74	12.76	12.60	12.79	12.68	12.64	12.76	12.77
ERP(Watts)	0.0187	0.0188	0.0189	0.0182	0.0190	0.0185	0.0184	0.0189	0.0189

LTE Band 71 (GT - LC = -4.0 dB) 256QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	18.89	18.96	18.94
Conducted Power (Watts)	0.0774	0.0787	0.0783
ERP(dBm)	12.74	12.81	12.79
ERP(Watts)	0.0188	0.0191	0.0190

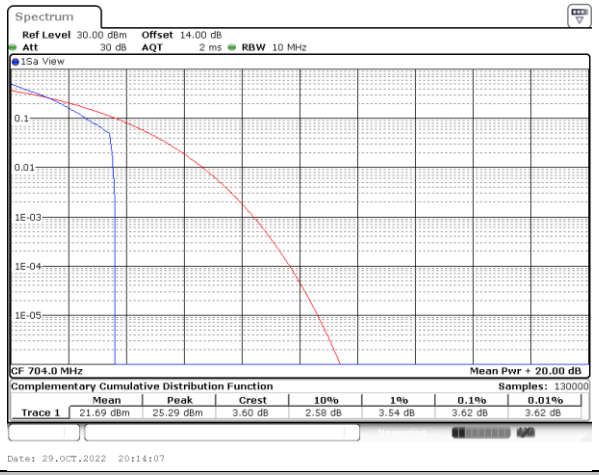
LTE Band 12

Peak-to-Average Ratio

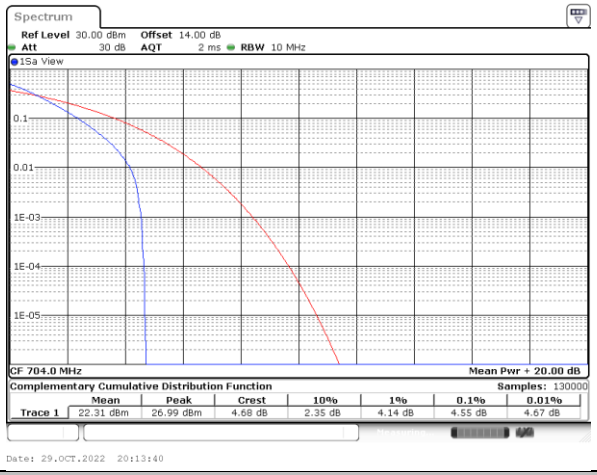
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.55	4.20	5.51	PASS
Middle CH	3.48	4.52	4.38	5.54	
Highest CH	3.54	4.61	4.35	5.57	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.04	6.14	-	-	PASS
Middle CH	5.19	6.14	-	-	
Highest CH	5.19	6.17	-	-	

LTE Band 12 / 10MHz / QPSK

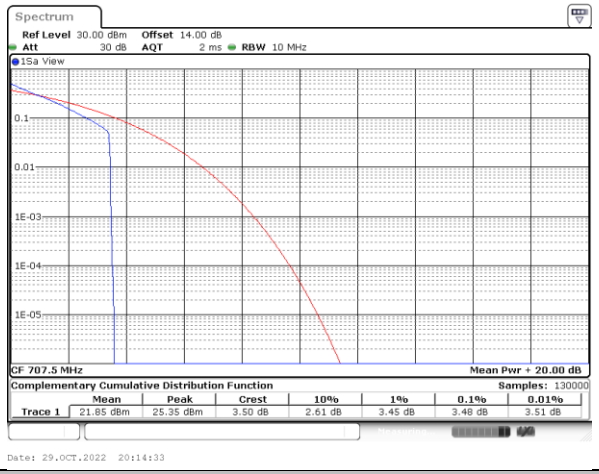
Lowest Channel / 1RB



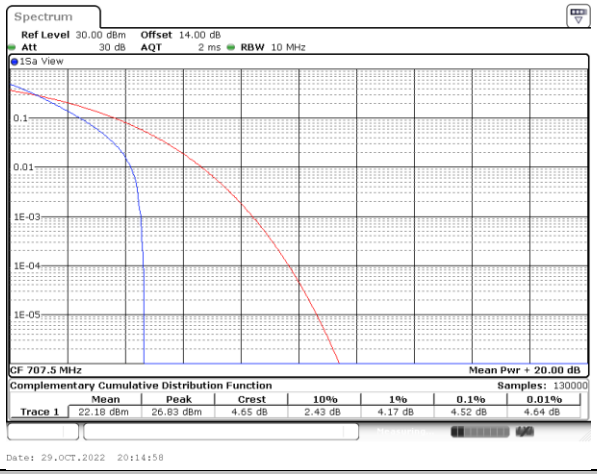
Lowest Channel / Full RB



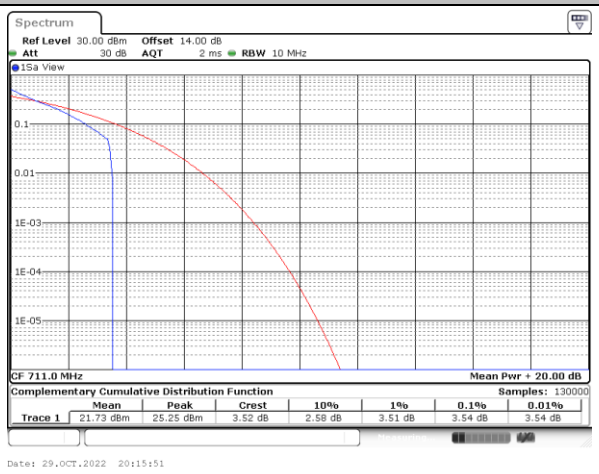
Middle Channel / 1RB



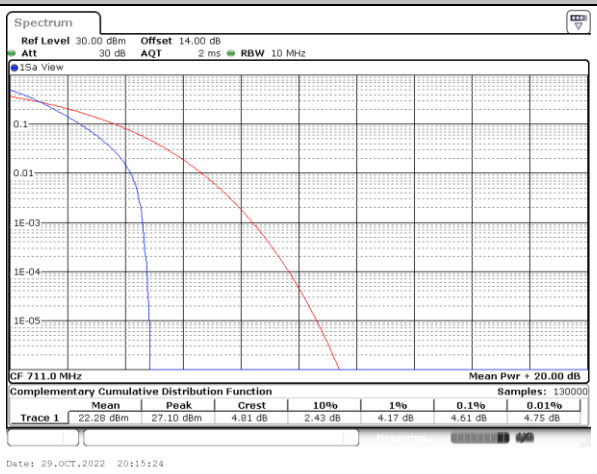
Middle Channel / Full RB



Highest Channel / 1RB

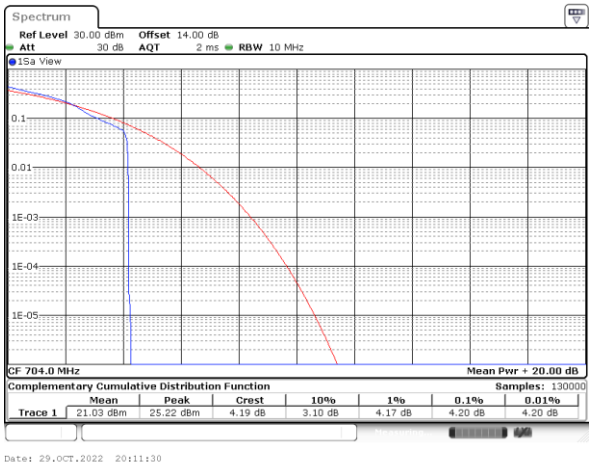


Highest Channel / Full RB

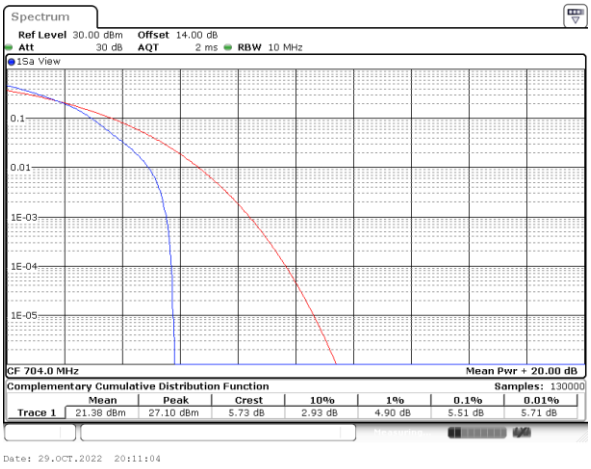


LTE Band 12 / 10MHz / 16QAM

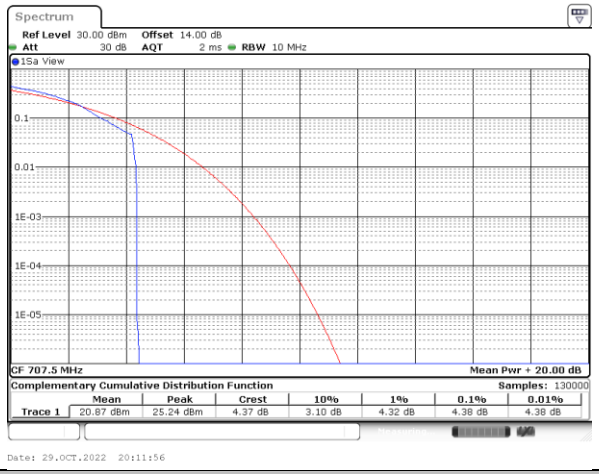
Lowest Channel / 1RB



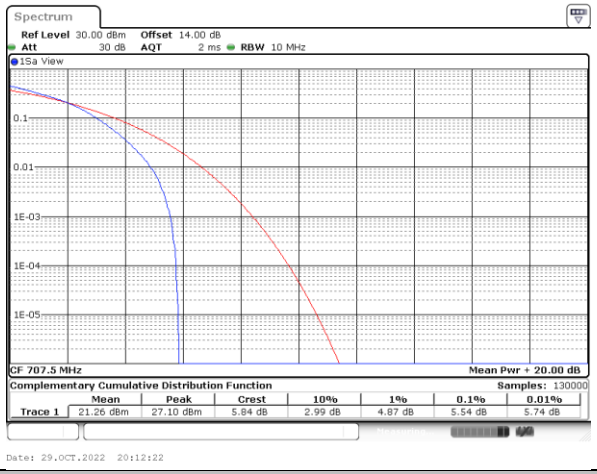
Lowest Channel / Full RB



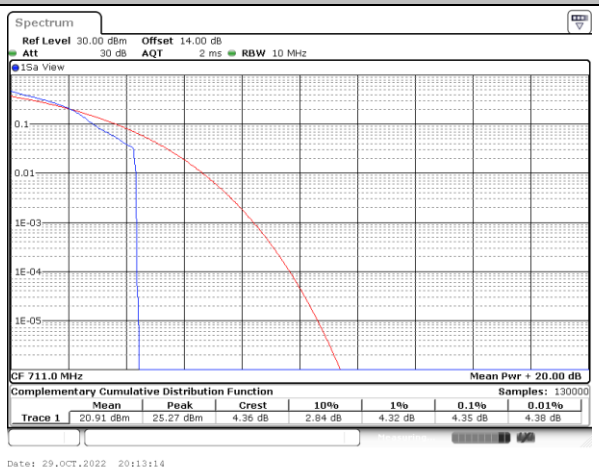
Middle Channel / 1RB



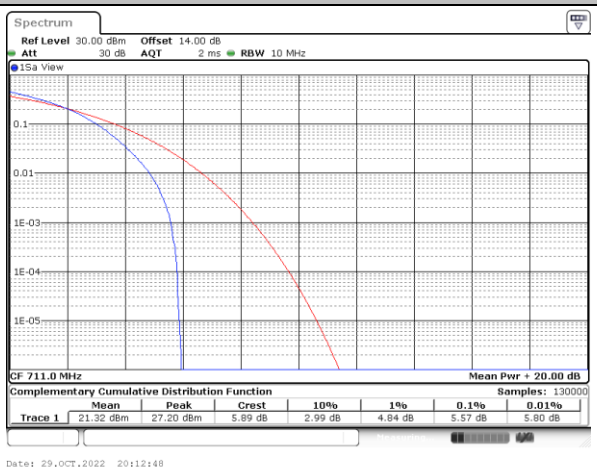
Middle Channel / Full RB



Highest Channel / 1RB

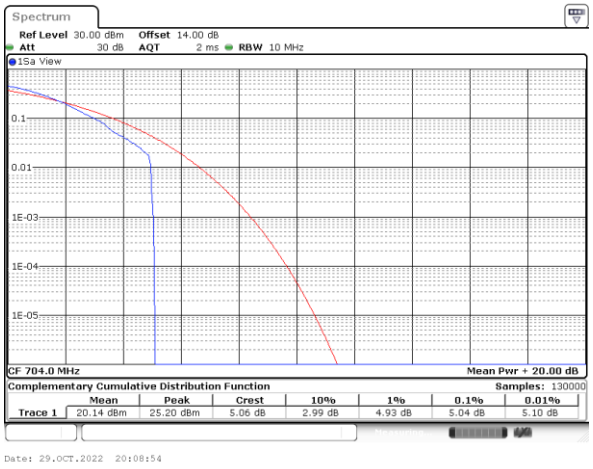


Highest Channel / Full RB

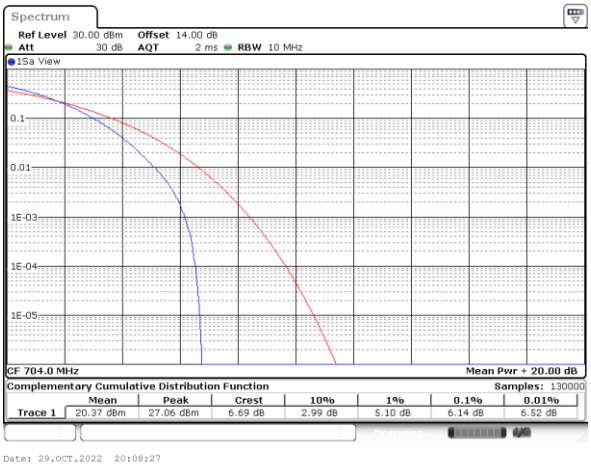


LTE Band 12 / 10MHz / 64QAM

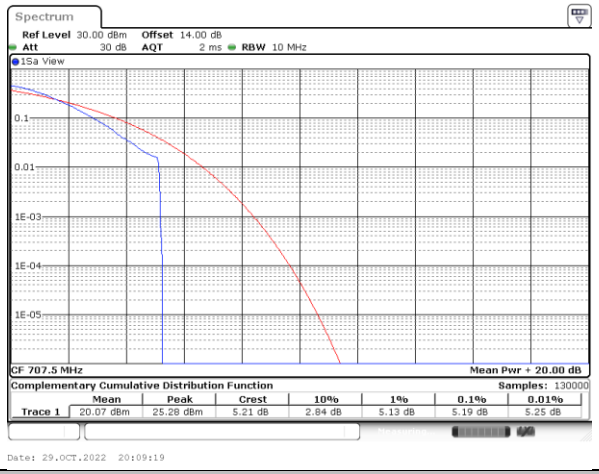
Lowest Channel / 1RB



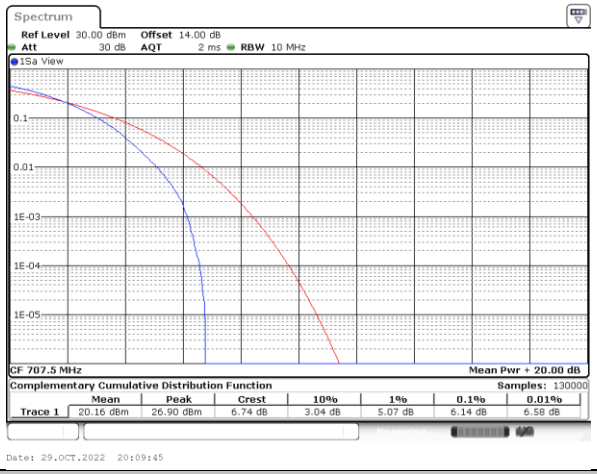
Lowest Channel / Full RB



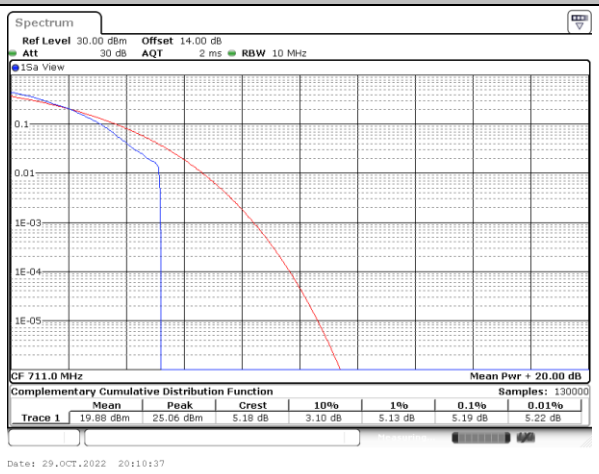
Middle Channel / 1RB



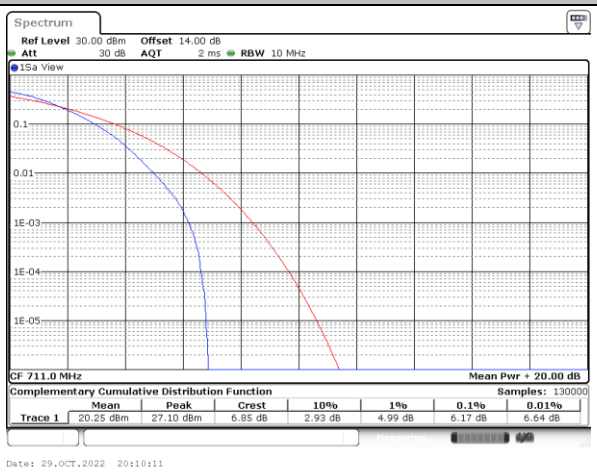
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

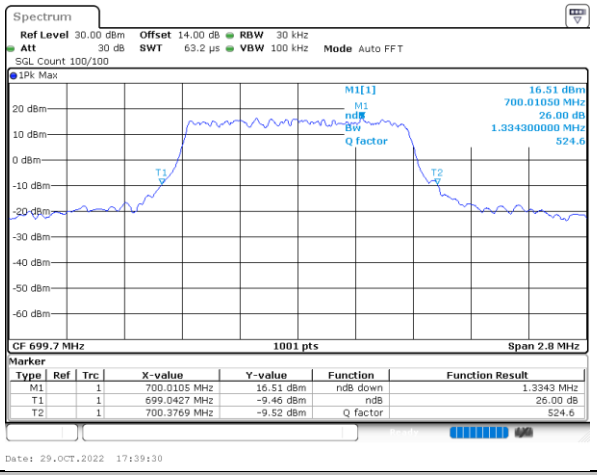


26dB Bandwidth

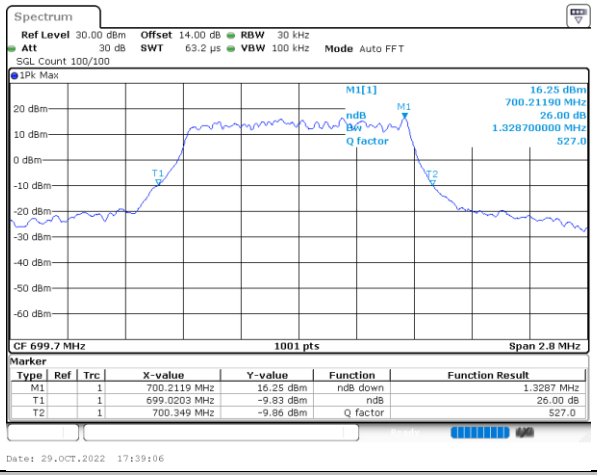
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.33	1.33	3.09	3.18	5.12	5.06	9.63	9.89	-	-	-	-
Middle CH	1.30	1.35	3.09	3.06	5.06	5.02	9.99	9.81	-	-	-	-
Highest CH	1.29	1.34	3.04	3.10	4.87	4.94	10.07	9.81	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.31	-	3.05	-	5.05	-	9.69	-	-	-	-	-
Middle CH	1.33	-	3.13	-	5.08	-	9.81	-	-	-	-	-
Highest CH	1.31	-	3.09	-	5.09	-	9.79	-	-	-	-	-

LTE Band 12

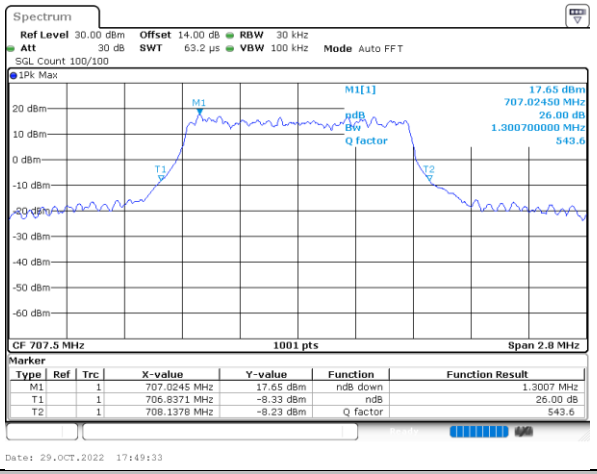
Lowest Channel / 1.4MHz / QPSK



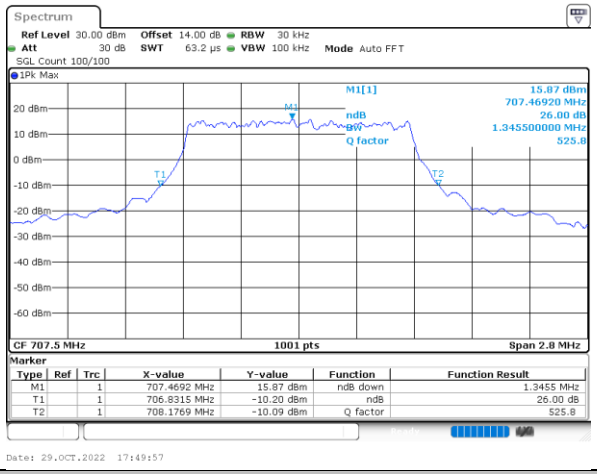
Lowest Channel / 1.4MHz / 16QAM



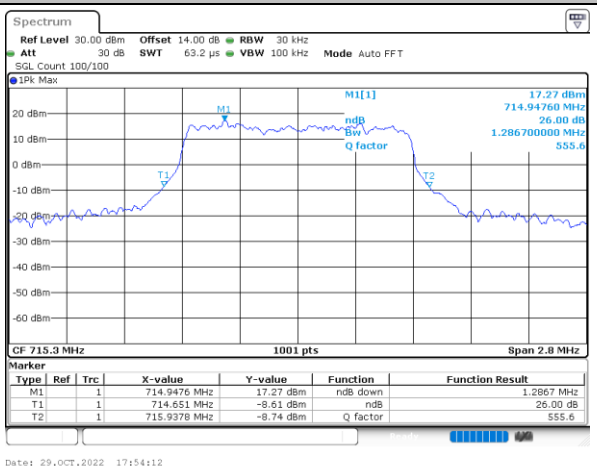
Middle Channel / 1.4MHz / QPSK



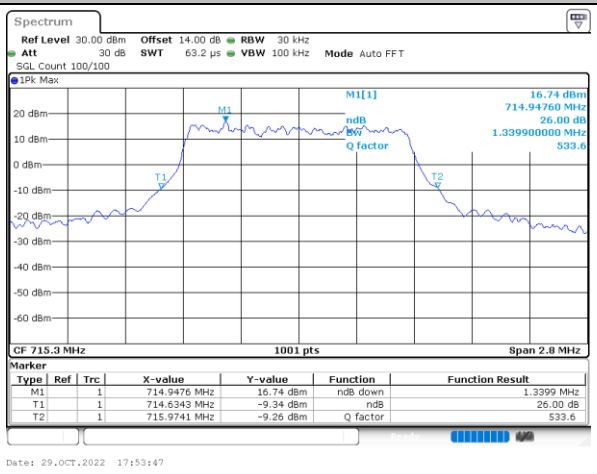
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

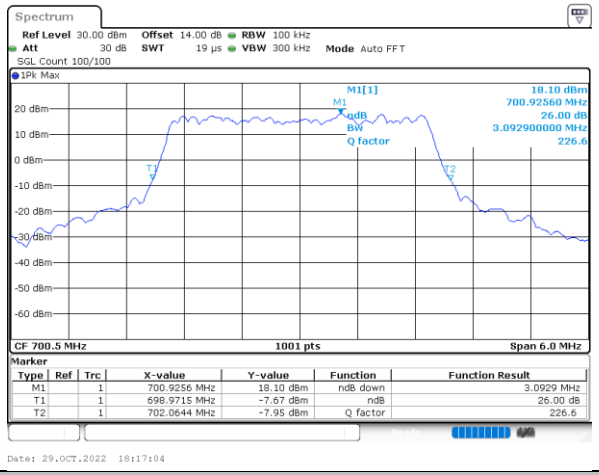


Highest Channel / 1.4MHz / 16QAM

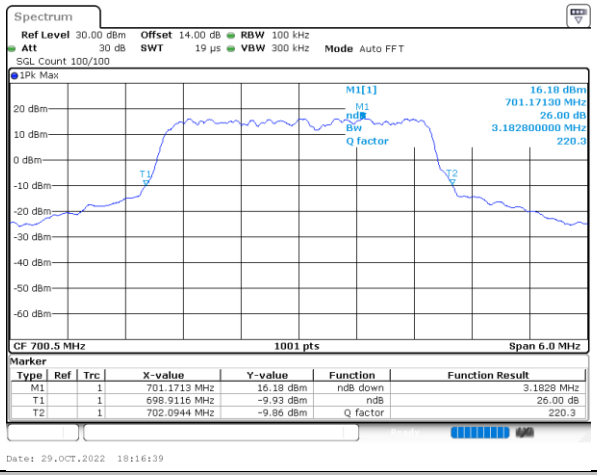


LTE Band 12

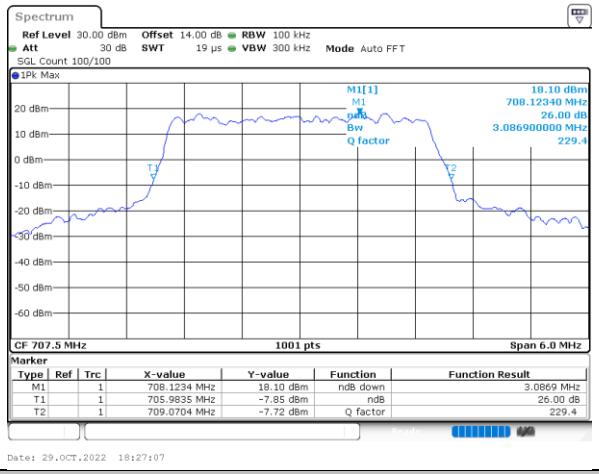
Lowest Channel / 3MHz / QPSK



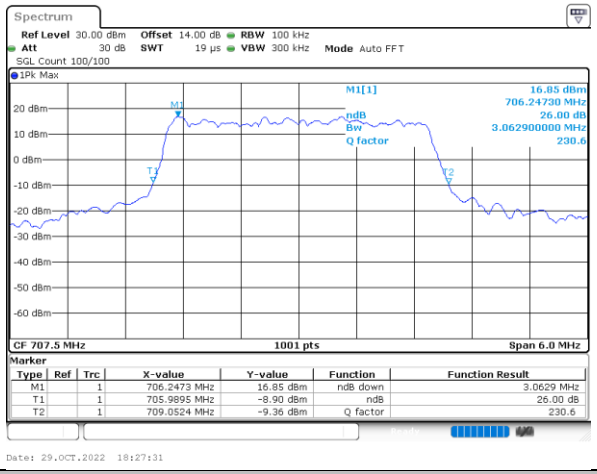
Lowest Channel / 3MHz / 16QAM



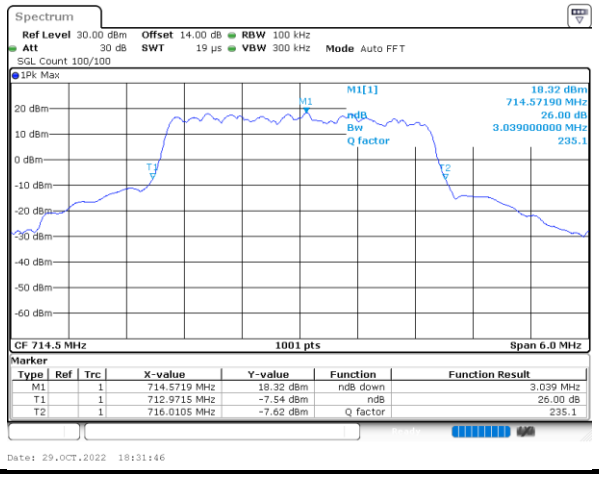
Middle Channel / 3MHz / QPSK



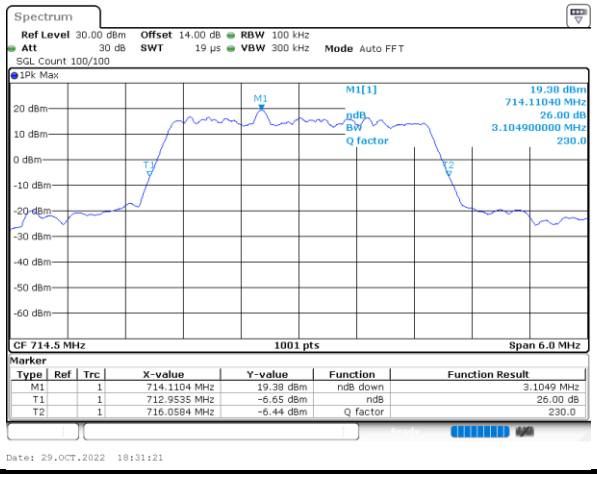
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

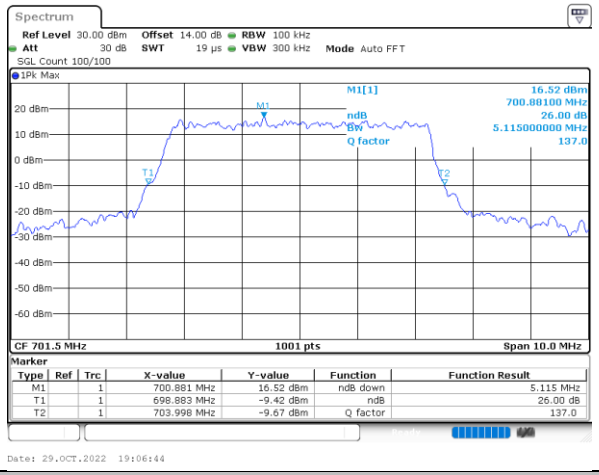


Highest Channel / 3MHz / 16QAM

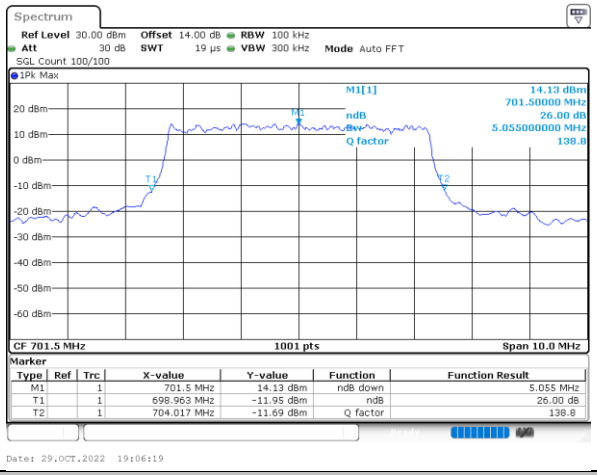


LTE Band 12

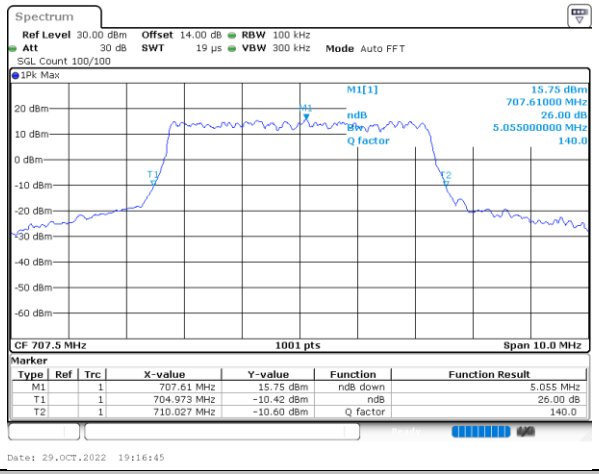
Lowest Channel / 5MHz / QPSK



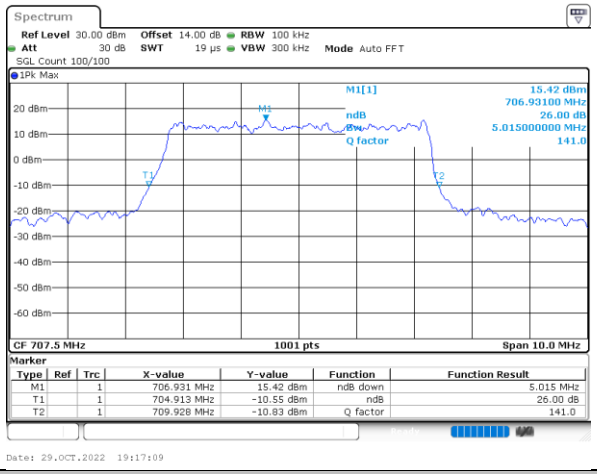
Lowest Channel / 5MHz / 16QAM



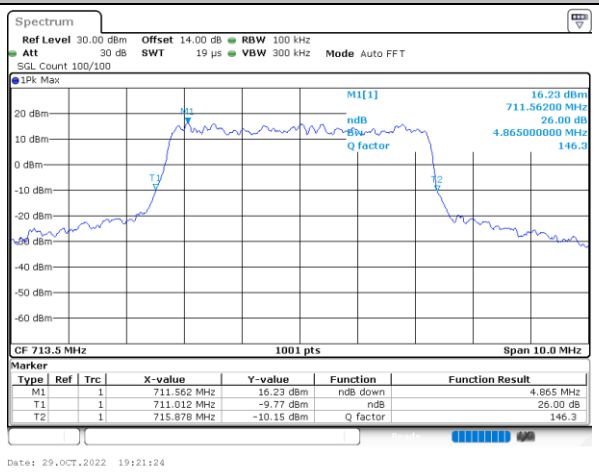
Middle Channel / 5MHz / QPSK



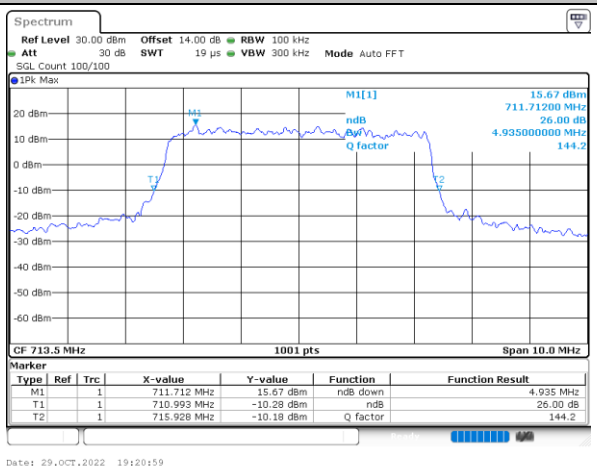
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

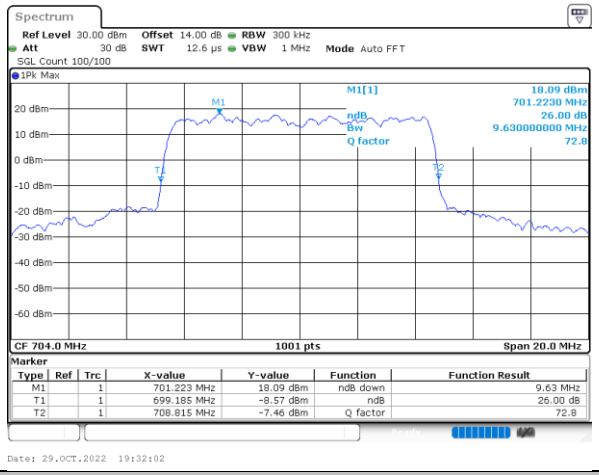


Highest Channel / 5MHz / 16QAM

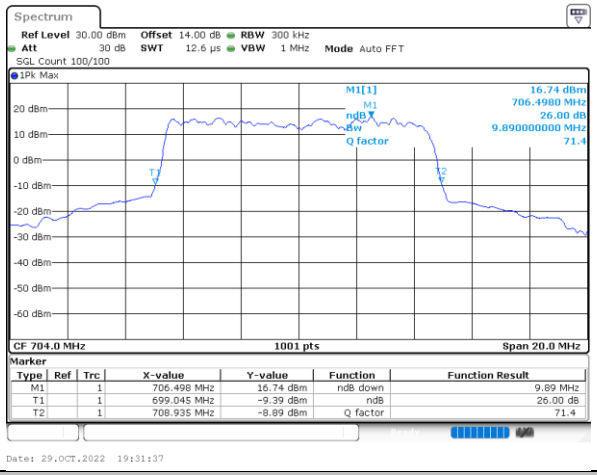


LTE Band 12

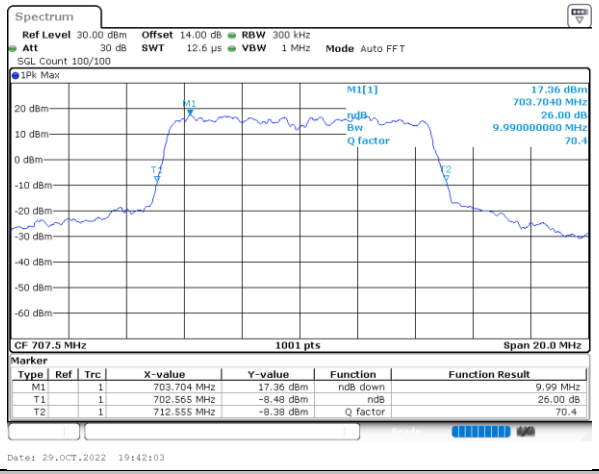
Lowest Channel / 10MHz / QPSK



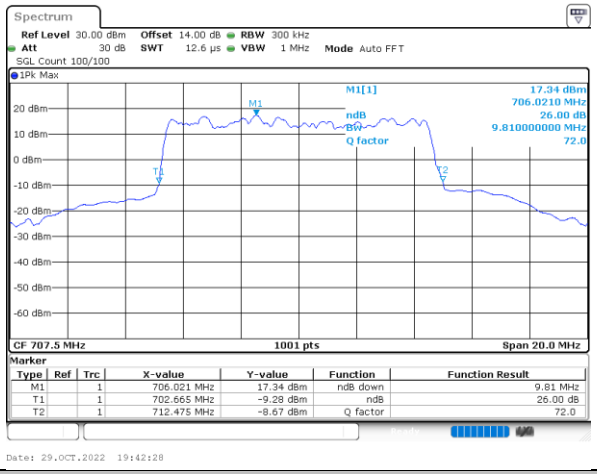
Lowest Channel / 10MHz / 16QAM



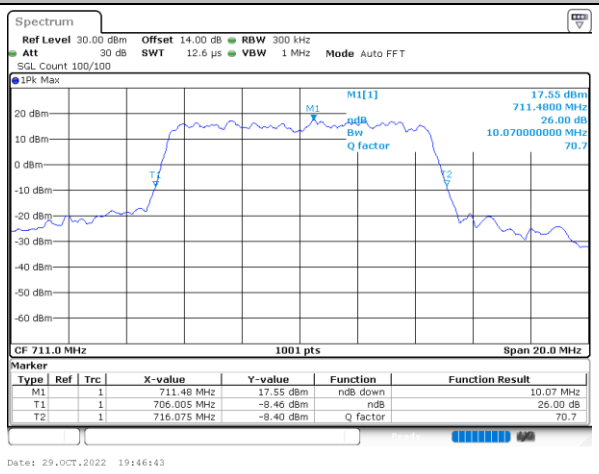
Middle Channel / 10MHz / QPSK



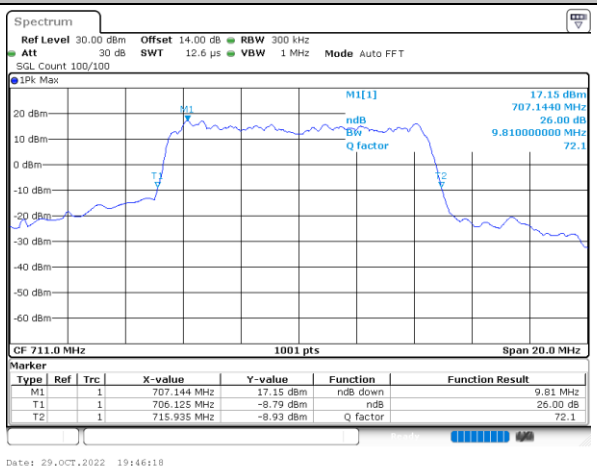
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

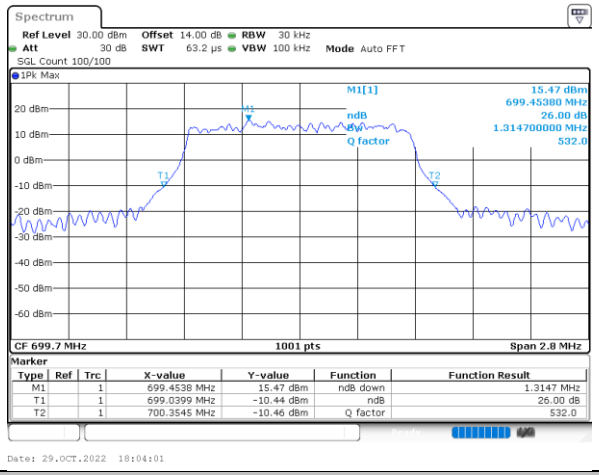


Highest Channel / 10MHz / 16QAM

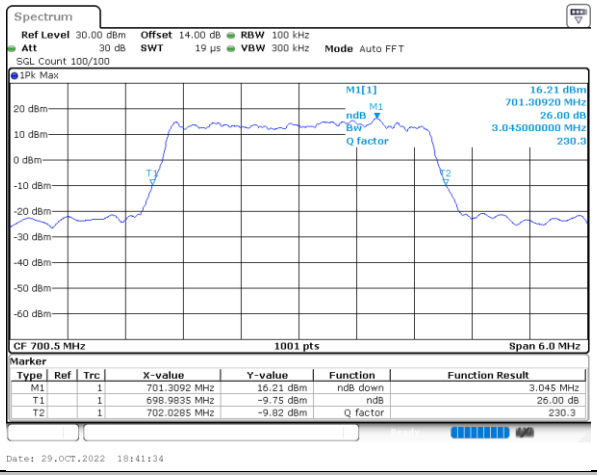


LTE Band 12

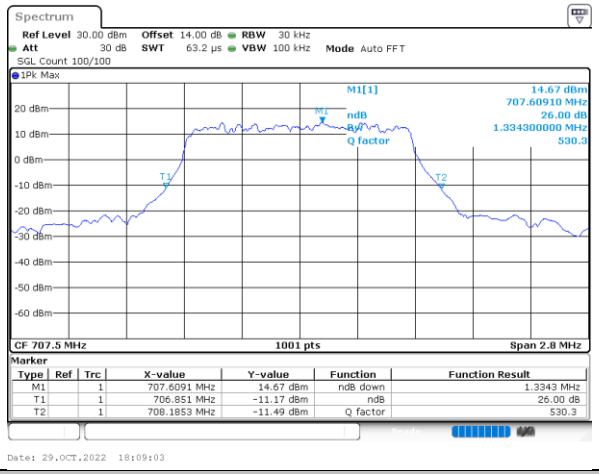
Lowest Channel / 1.4MHz / 64QAM



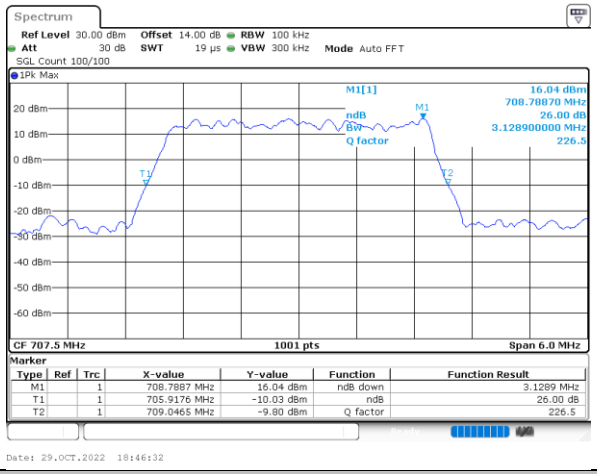
Lowest Channel / 3MHz / 64QAM



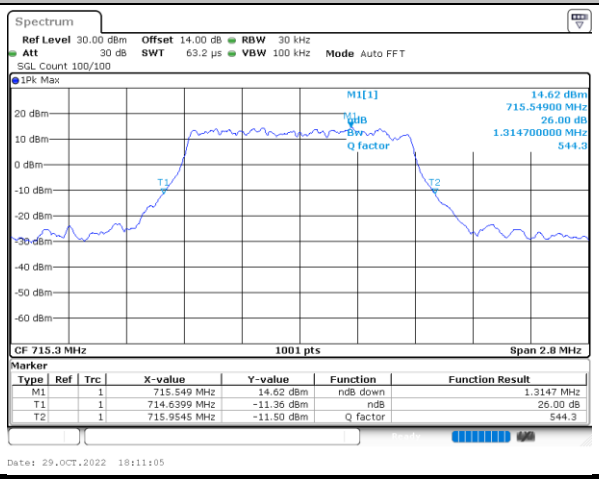
Middle Channel / 1.4MHz / 64QAM



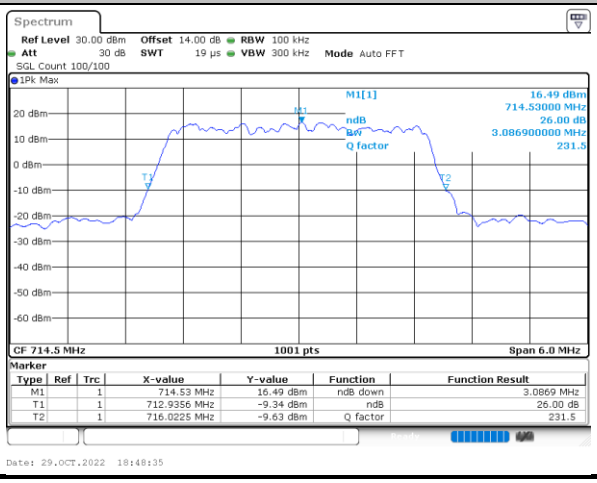
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

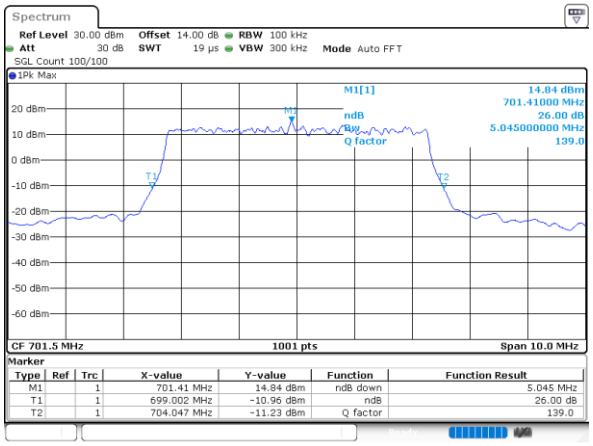


Highest Channel / 3MHz / 64QAM

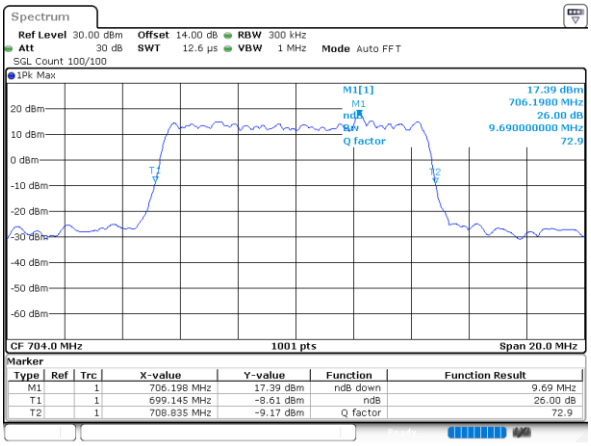


LTE Band 12

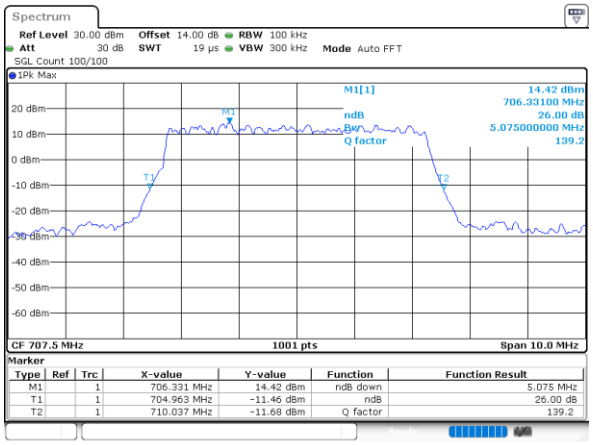
Lowest Channel / 5MHz / 64QAM



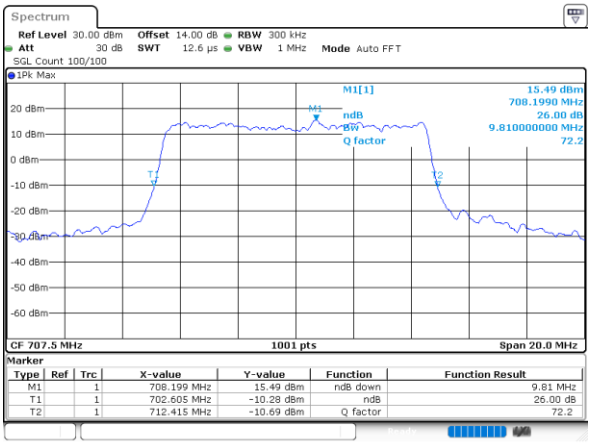
Lowest Channel / 10MHz / 64QAM



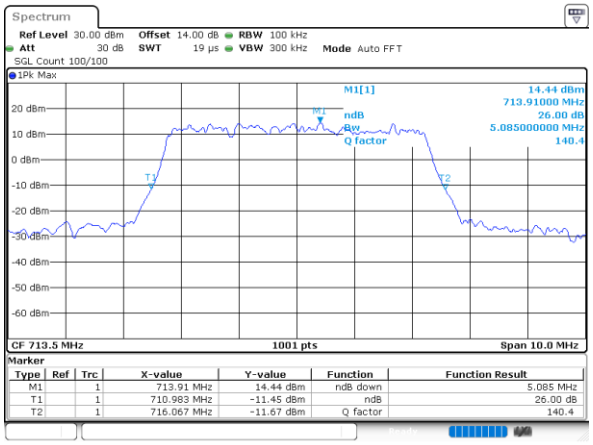
Middle Channel / 5MHz / 64QAM



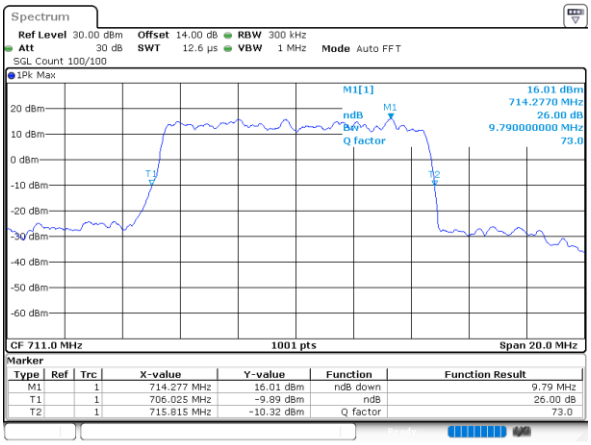
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

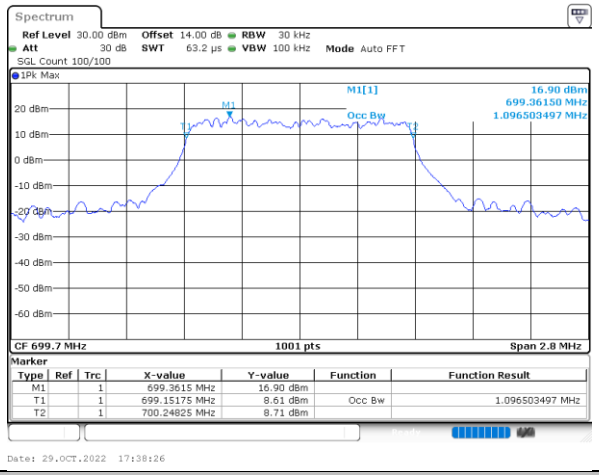


Occupied Bandwidth

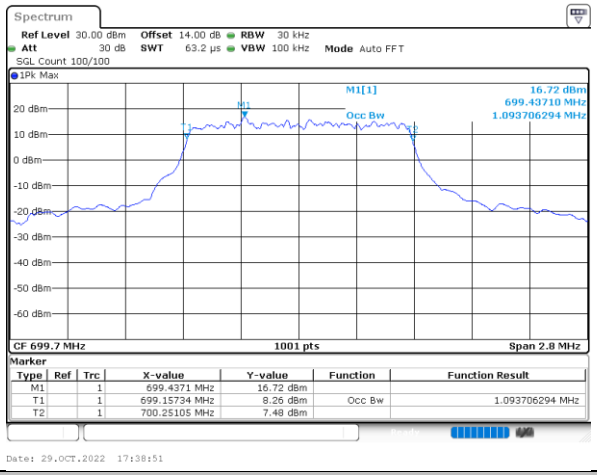
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.73	2.70	4.55	4.53	9.05	9.05	-	-	-	-
Middle CH	1.08	1.10	2.73	2.75	4.51	4.49	9.05	9.07	-	-	-	-
Highest CH	1.09	1.11	2.73	2.73	4.50	4.50	9.05	9.01	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.48	-	9.11	-	-	-	-	-
Middle CH	1.08	-	2.73	-	4.50	-	9.07	-	-	-	-	-
Highest CH	1.09	-	2.74	-	4.51	-	9.09	-	-	-	-	-

LTE Band 12

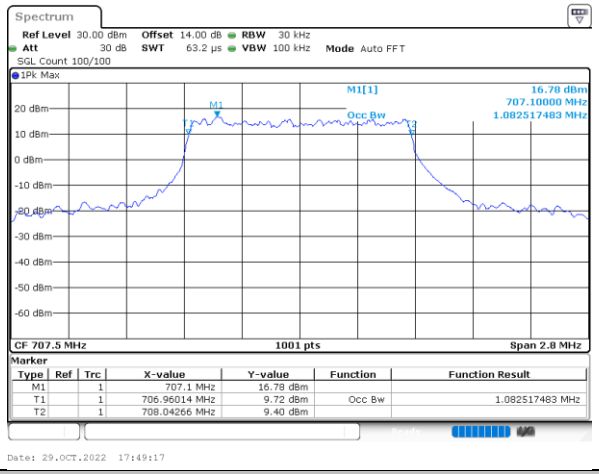
Lowest Channel / 1.4MHz / QPSK



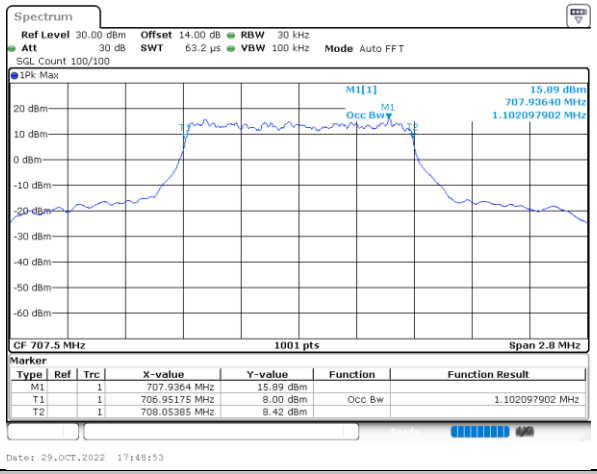
Lowest Channel / 1.4MHz / 16QAM



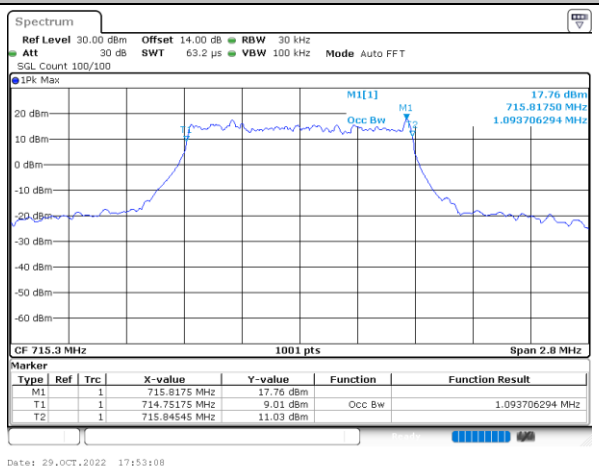
Middle Channel / 1.4MHz / QPSK



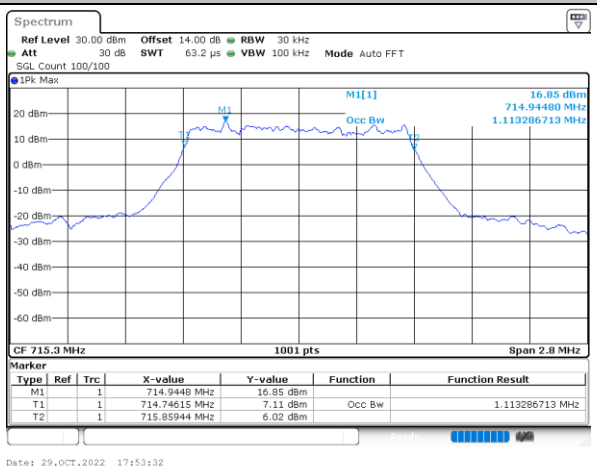
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

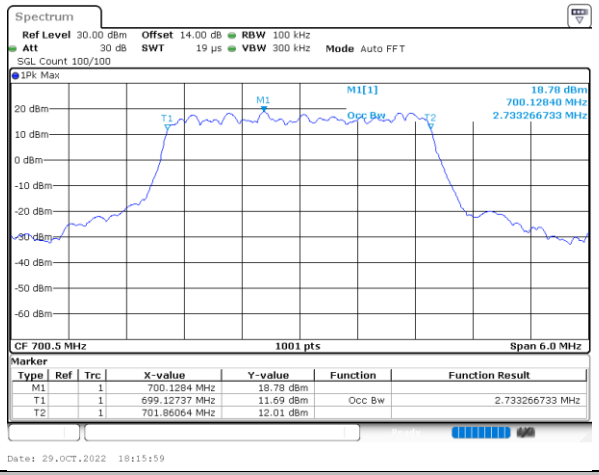


Highest Channel / 1.4MHz / 16QAM

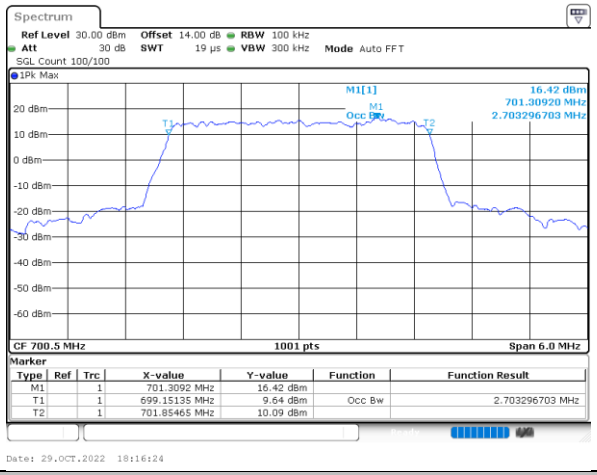


LTE Band 12

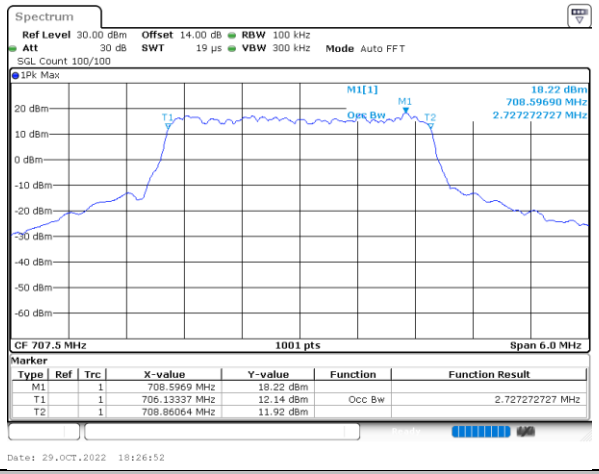
Lowest Channel / 3MHz / QPSK



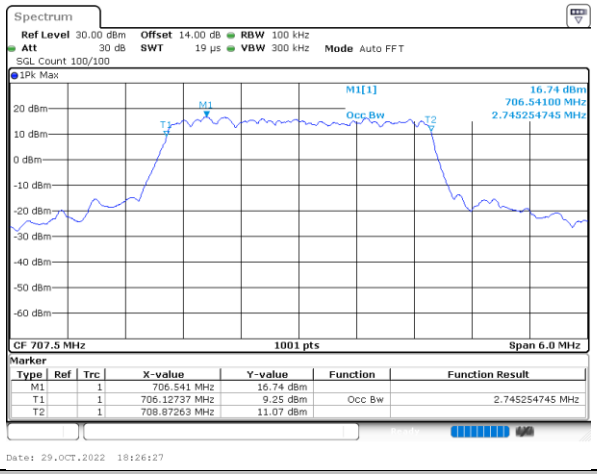
Lowest Channel / 3MHz / 16QAM



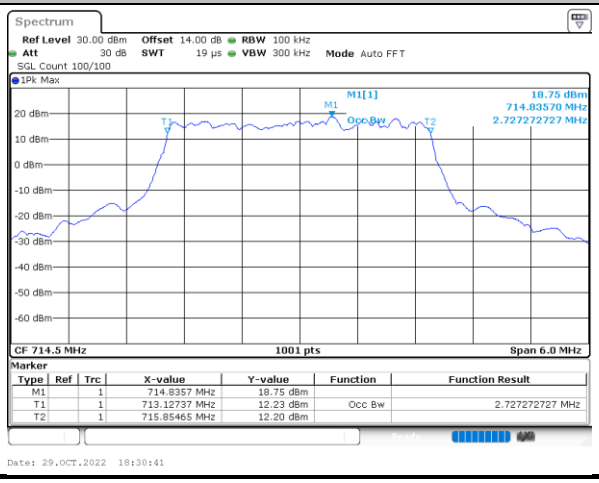
Middle Channel / 3MHz / QPSK



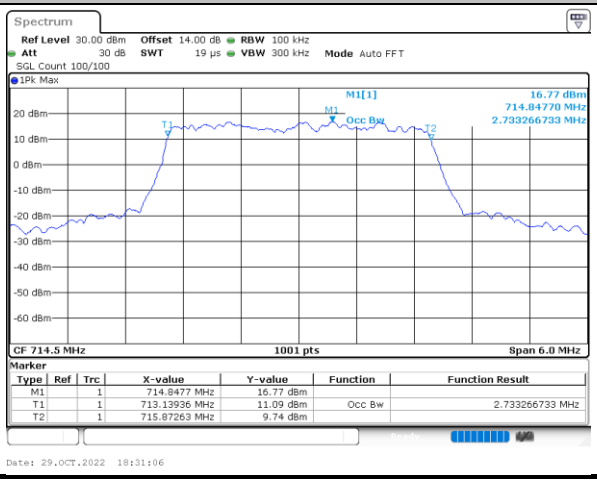
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

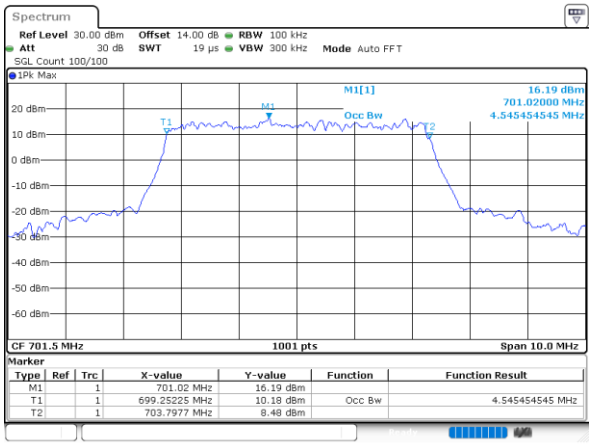


Highest Channel / 3MHz / 16QAM

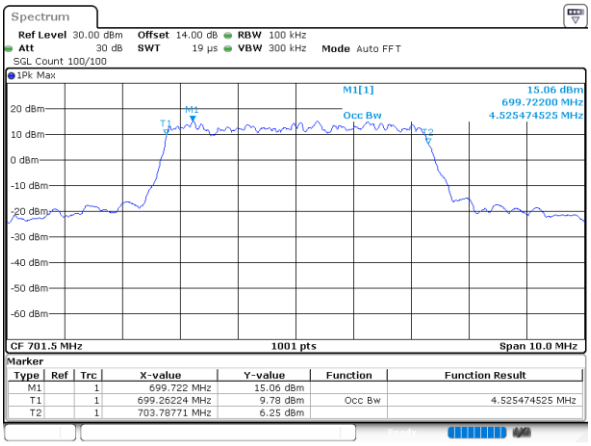


LTE Band 12

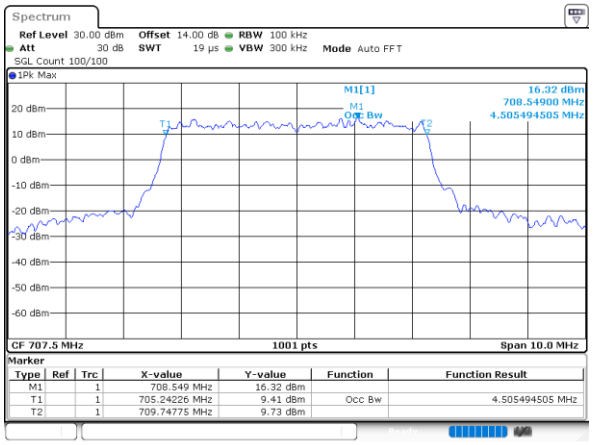
Lowest Channel / 5MHz / QPSK



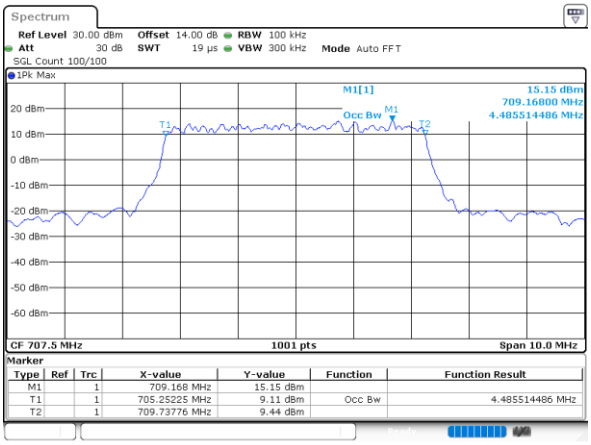
Lowest Channel / 5MHz / 16QAM



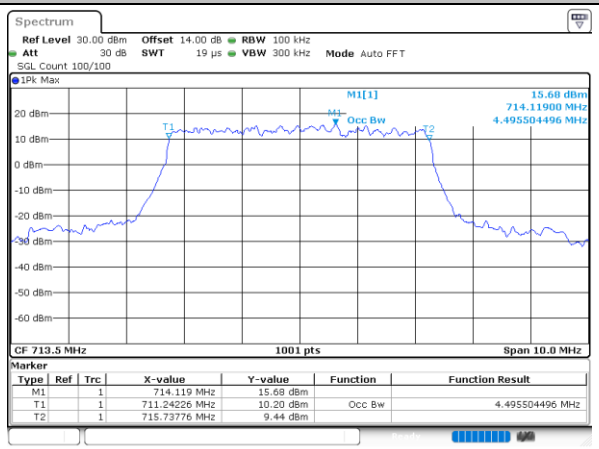
Middle Channel / 5MHz / QPSK



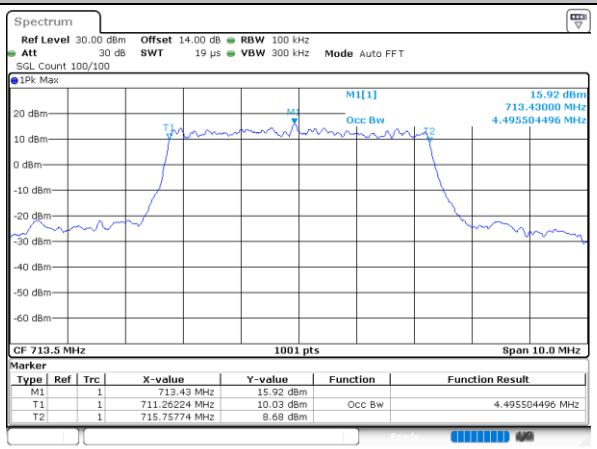
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

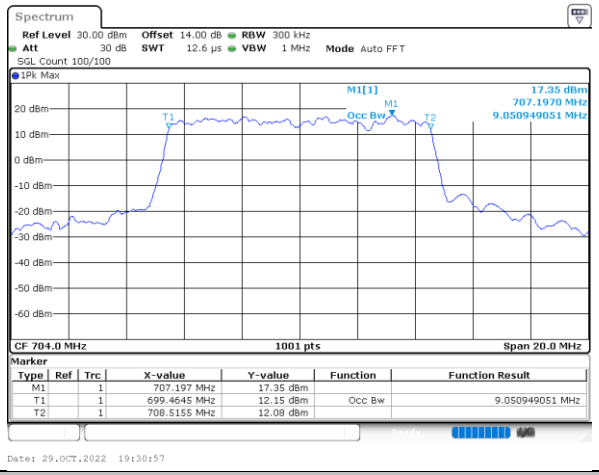


Highest Channel / 5MHz / 16QAM

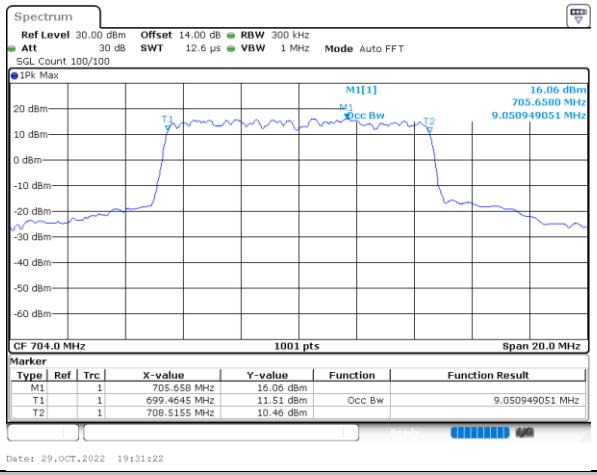


LTE Band 12

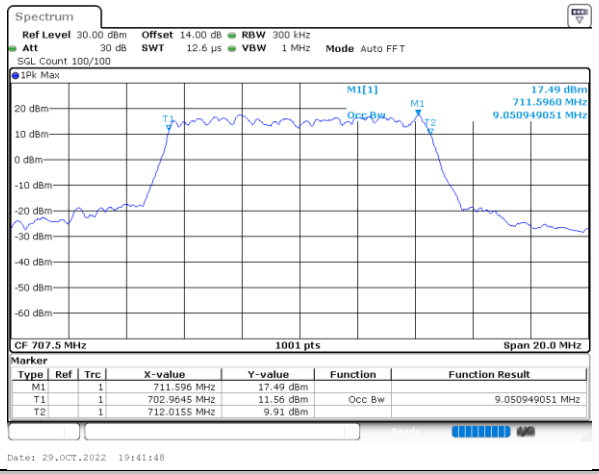
Lowest Channel / 10MHz / QPSK



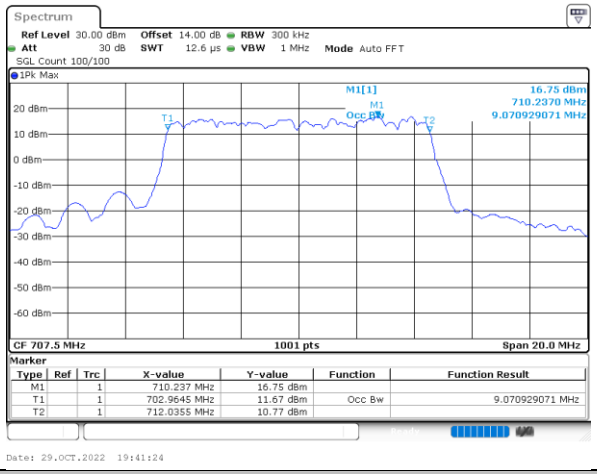
Lowest Channel / 10MHz / 16QAM



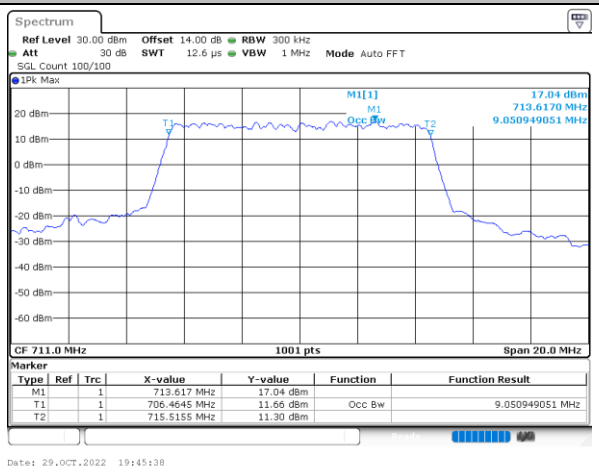
Middle Channel / 10MHz / QPSK



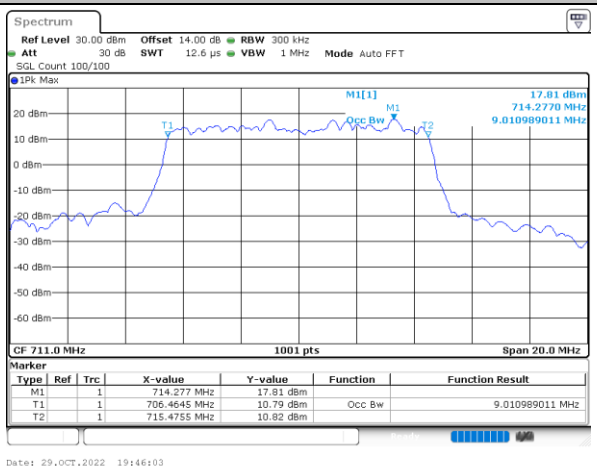
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

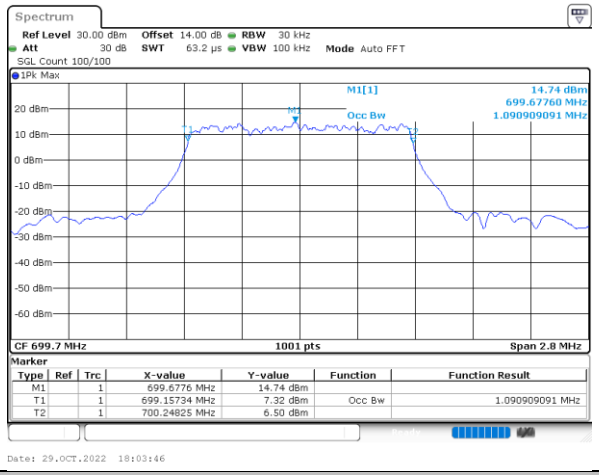


Highest Channel / 10MHz / 16QAM

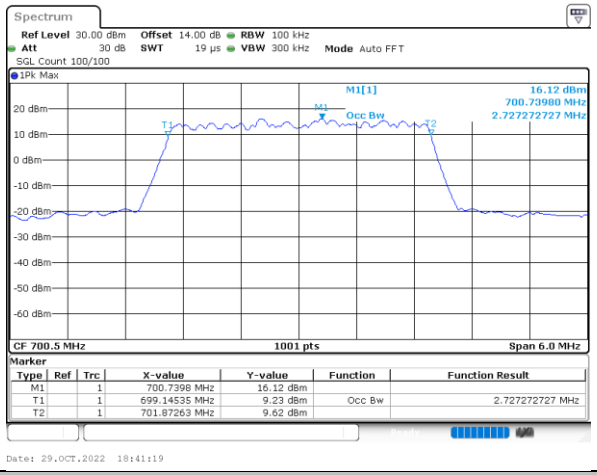


LTE Band 12

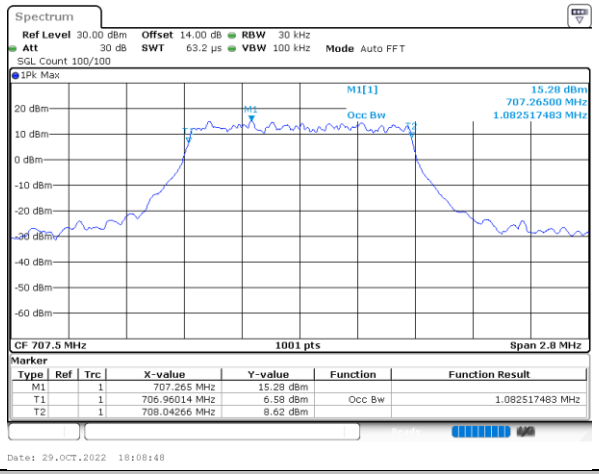
Lowest Channel / 1.4MHz / 64QAM



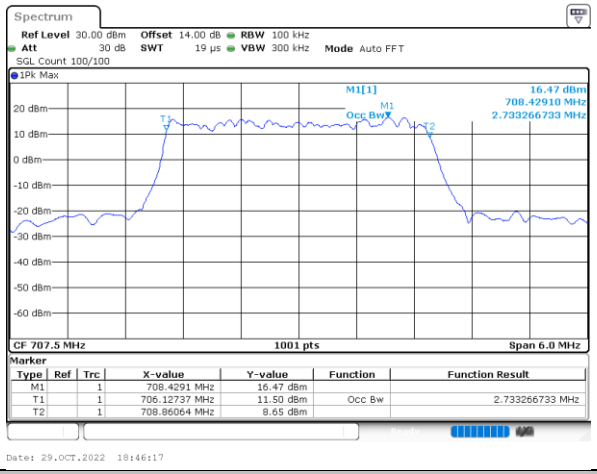
Lowest Channel / 3MHz / 64QAM



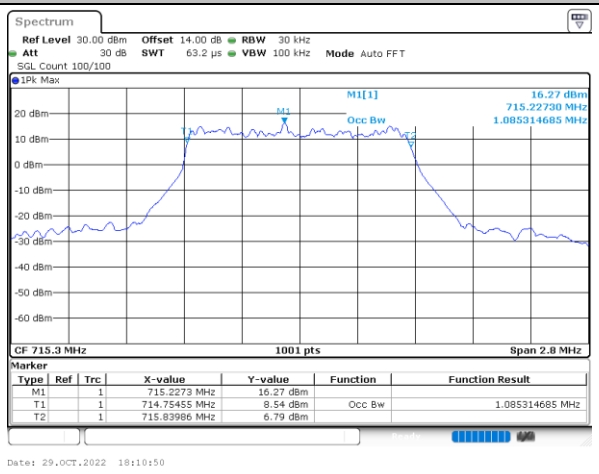
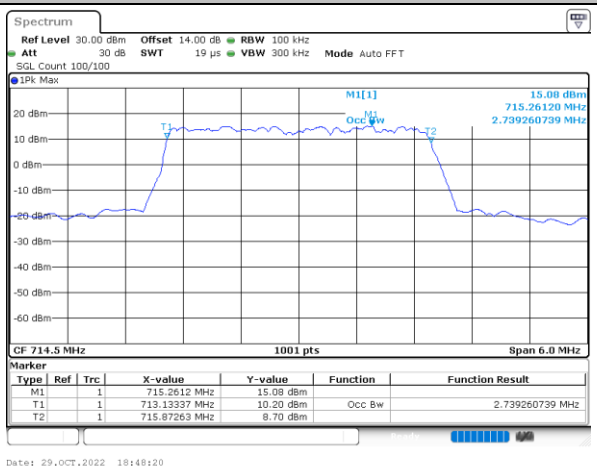
Middle Channel / 1.4MHz / 64QAM



Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



Highest Channel / 3MHz / 64QAM