



FCC RF Test Report

APPLICANT : Relay, Inc.
EQUIPMENT : Relay
BRAND NAME : RelayM
MODEL NAME : RY2267
FCC ID : 2AMBHRY2267
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter held to face (PCF)
TEST DATE(S) : Sep. 08, 2024 ~ Feb. 08, 2025

We, Sporton International Inc. (Kunshan), 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.

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The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG250505A	Rev. 01	Initial issue of report	Feb. 24, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 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(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 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(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 15.82 dB at 9221.60 MHz

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.2 Manufacturer

Relay, Inc.

2230 Bandmate Way, Suite 500, Raleigh, NC 27607, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Relay
Brand Name	RelayM
Model Name	RY2267
FCC ID	2AMBHRY2267
IMEI Code	Conducted: 004400152020000 Radiation: 990007540010789
HW Version	v01
EUT Stage	Identical Prototype

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 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 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 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz ~ 2180 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 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
Maximum Output Power to Antenna	<Ant.1> LTE Band 2 : 23.97 dBm LTE Band 4 : 24.04 dBm LTE Band 5 : 23.08 dBm LTE Band 25 : 23.99 dBm LTE Band 26 : 23.19 dBm LTE Band 66 : 24.12 dBm <Ant.2> LTE Band 2 : 23.54 dBm LTE Band 25 : 23.62 dBm LTE Band 66 : 23.70 dBm
Antenna Gain	<Ant.1> LTE Band 2 : 0 dBi LTE Band 4 : 0 dBi LTE Band 5 : -5.1 dBi LTE Band 25 : 0 dBi LTE Band 26 : -5.1 dBi LTE Band 66 : 0 dBi <Ant.2> LTE Band 2 : -0.3 dBi LTE Band 25 : -0.3 dBi LTE Band 66 : 3.4 dBi
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM / 64QAM

Note :

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 1 for B2/4/5/25/26, Antenna 2 for B66 is shown in the report.
2. LTE Band 2/25/66 support two PA paths, one PA path for LTE single carrier, and othe PA path for NSA mode, both the PA paths are full tested, only the worst EIRP are shown in the report.



1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM	
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	0.2432	1M10G7D	0.1972	1M11W7D
3	1851.5 ~ 1908.5	0.2438	2M73G7D	0.1991	2M72W7D
5	1852.5 ~ 1907.5	0.2460	4M51G7D	0.1986	4M50W7D
10	1855.0 ~ 1905.0	0.2427	9M07G7D	0.1991	9M01W7D
15	1857.5 ~ 1902.5	0.2449	13M5G7D	0.1972	13M4W7D
20	1860.0 ~ 1900.0	0.2495	17M9G7D	0.1180	17M9W7D
LTE Band 25		QPSK		16QAM/64QAM	
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	0.2371	1M10G7D	0.1945	1M11W7D
3	1851.5 ~ 1913.5	0.2377	2M73G7D	0.1945	2M72W7D
5	1852.5 ~ 1912.5	0.2404	4M51G7D	0.1945	4M50W7D
10	1855.0 ~ 1910.0	0.2344	9M07G7D	0.1928	9M01W7D
15	1857.5 ~ 1907.5	0.2399	13M5G7D	0.1959	13M5W7D
20	1860.0 ~ 1905.0	0.2506	18M0G7D	0.1968	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM	
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	0.2483	1M09G7D	0.2023	1M10W7D
3	1711.5 ~ 1753.5	0.2512	2M75G7D	0.2051	2M73W7D
5	1712.5 ~ 1752.5	0.2518	4M50G7D	0.2051	4M48W7D
10	1715.0 ~ 1750.0	0.2518	9M09G7D	0.2061	9M05W7D
15	1717.5 ~ 1747.5	0.2500	13M5G7D	0.2061	13M4W7D
20	1720.0 ~ 1745.0	0.2535	17M9G7D	0.2084	17M9W7D



LTE Band 5		QPSK		16QAM/64QAM	
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	0.0378	1M09G7D	0.0303	1M13W7D
3	825.5 ~ 847.5	0.0372	2M72G7D	0.0302	2M72W7D
5	826.5 ~ 846.5	0.0380	4M49G7D	0.0308	4M50W7D
10	829.0 ~ 844.0	0.0383	9M09G7D	0.0312	9M07W7D
LTE Band 26		QPSK		16QAM/64QAM	
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	0.0386	1M09G7D	0.0308	1M13W7D
3	825.5 ~ 847.5	0.0389	2M72G7D	0.0308	2M72W7D
5	826.5 ~ 846.5	0.0385	4M49G7D	0.0309	4M50W7D
10	829.0 ~ 844.0	0.0382	9M09G7D	0.0310	9M07W7D
15	831.5 ~ 841.5	0.0393	13M5G7D	0.0312	13M4W7D
CH26790	824.0	0.0388	13M3G7D	0.0307	13M5W7D
LTE Band 66		QPSK		16QAM/64QAM	
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	0.4989	1M09G7D	0.4121	1M10W7D
3	1711.5 ~ 1778.5	0.5082	2M75G7D	0.4064	2M73W7D
5	1712.5 ~ 1777.5	0.5082	4M50G7D	0.4064	4M48W7D
10	1715.0 ~ 1775.0	0.5000	9M09G7D	0.4083	9M05W7D
15	1717.5 ~ 1772.5	0.5023	13M5G7D	0.4093	13M4W7D
20	1720.0 ~ 1770.0	0.5129	17M9G7D	0.4159	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. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 4.4 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH02-SZ	AUDIX	E3	6.2009-8-24a



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 22(H), 24(E), 27(L)
- ♦ 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

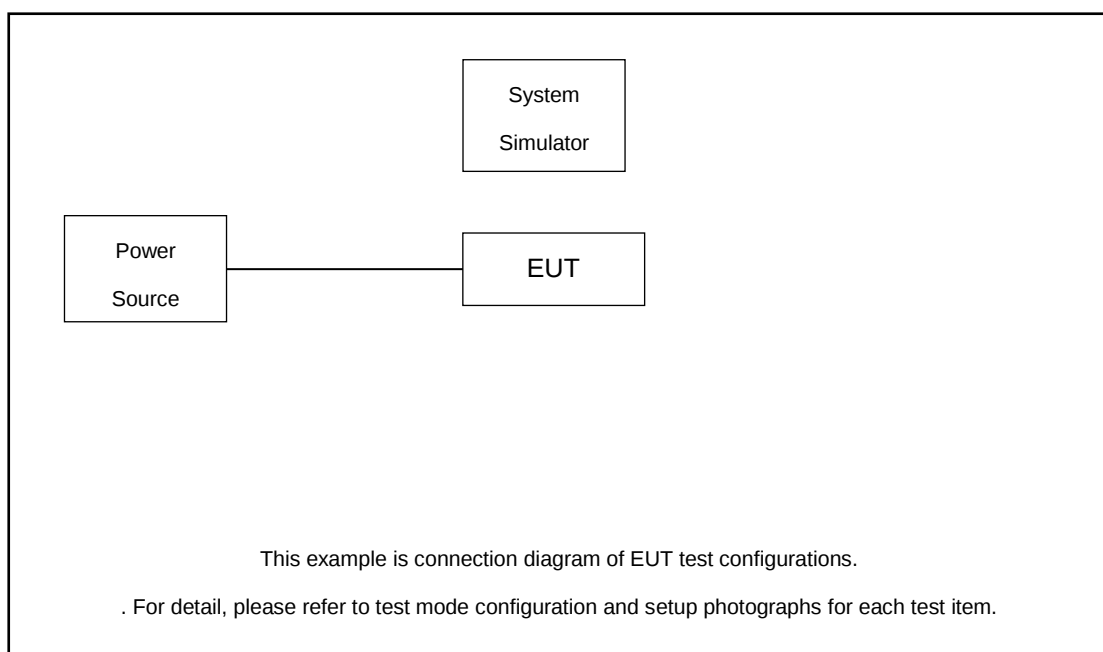
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	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
	5	v	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
	26	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
Peak-to-Average Ratio	25						v	v	v	v			v		v	
	26				v		-	v	v	v			v		v	
	66						v	v	v	v			v		v	
26dB and 99% Bandwidth	25	v	v	v	v	v	v	v	v				v		v	
	26	v	v	v	v	v	-	v	v				v		v	
	66	v	v	v	v	v	v	v	v				v		v	
Conducted Band Edge	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
Conducted Spurious Emission	25	v	v	v	v	v	v	v			v			v	v	v
	26	v	v	v	v	v	-	v			v			v	v	v
	66	v	v	v	v	v	v	v			v			v	v	v
Frequency Stability	25				v			v					v		v	
	26				v		-	v					v		v	
	66				v			v					v		v	
E.R.P / E.I.R.P	2	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
	5	v	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
	26	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
Radiated Spurious Emission	25	Worst Case											v	v	v	
	26	Worst Case											v	v	v	
	66	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.															

2.2 Connection Diagram of Test System



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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.4 \text{ (dB)} \end{aligned}$$

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 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

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 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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$



$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

8. 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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 $20\pm 5^{\circ}\text{C}$ 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

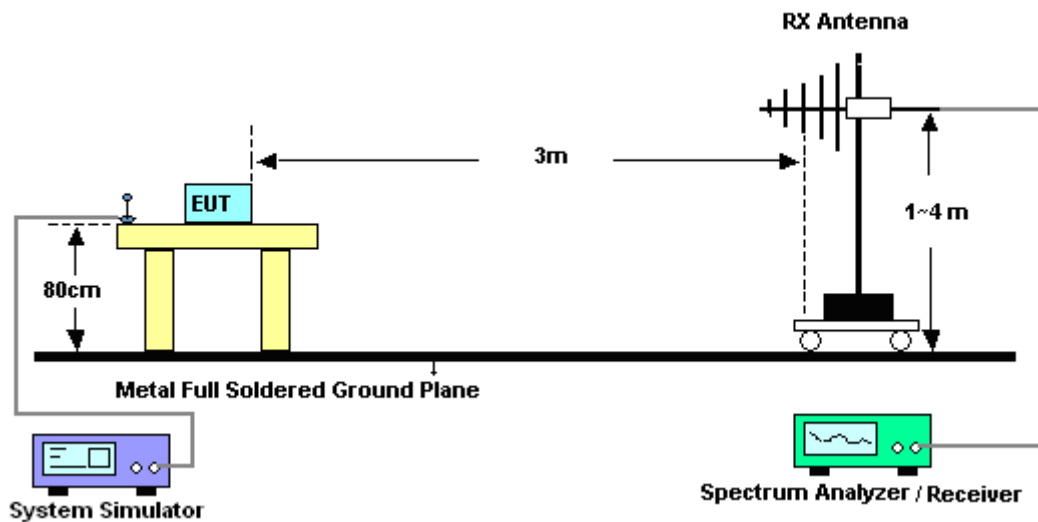
See list of measuring instruments of this test report.

4.2 Test Setup

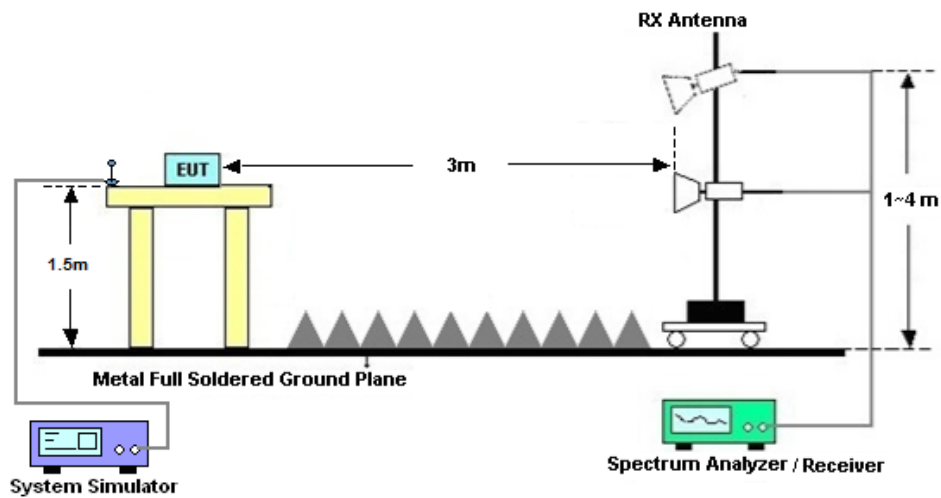
4.2.1 For radiated test below 30MHz



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.

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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2023	Sep. 08, 2024~ Sep. 10, 2024	Oct. 09, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Sep. 08, 2024~ Sep. 10, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Sep. 08, 2024~ Sep. 10, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Feb. 08, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Feb. 08, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Feb. 08, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Feb. 08, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Feb. 08, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Feb. 08, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Feb. 08, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Feb. 08, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Feb. 08, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Feb. 08, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Feb. 08, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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 Spurious Emission & Bandedge	± 2.22 dB
Occupied Channel Bandwidth	$\pm 0.1\%$
Conducted Power	± 0.50 dB
Peak to Average Ratio	± 0.50 dB
Frequency Stability	± 0.04 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				18700	18900	19100	18700	18900	19100
Frequency (MHz)				1860	1880	1900	1860	1880	1900
20	QPSK	1	0	23.79	23.97	23.84	0.2393	0.2495	0.2421
20	QPSK	1	49	23.75	23.86	23.80	0.2371	0.2432	0.2399
20	QPSK	1	99	23.69	23.87	23.74	0.2339	0.2438	0.2366
20	QPSK	50	0	22.90	22.95	22.87	0.1950	0.1972	0.1936
20	QPSK	50	24	22.82	22.93	22.76	0.1914	0.1963	0.1888
20	QPSK	50	50	22.89	22.87	22.79	0.1945	0.1936	0.1901
20	QPSK	100	0	22.90	22.93	22.83	0.1950	0.1963	0.1919
20	16QAM	1	0	22.93	23.02	22.92	0.1963	0.2004	0.1959
20	16QAM	1	49	22.84	23.03	22.94	0.1923	0.2009	0.1968
20	16QAM	1	99	22.85	22.91	22.92	0.1928	0.1954	0.1959
20	16QAM	50	0	21.98	21.98	21.93	0.1578	0.1578	0.1560
20	16QAM	50	24	21.89	21.94	21.82	0.1545	0.1563	0.1521
20	16QAM	50	50	21.84	21.94	21.86	0.1528	0.1563	0.1535
20	16QAM	100	0	21.84	21.92	21.82	0.1528	0.1556	0.1521
20	64QAM	1	0	21.81	22.01	21.85	0.1517	0.1589	0.1531
20	64QAM	1	49	21.72	21.93	21.85	0.1486	0.1560	0.1531
20	64QAM	1	99	21.73	21.84	21.78	0.1489	0.1528	0.1507
20	64QAM	50	0	20.79	20.89	20.84	0.1199	0.1227	0.1213
20	64QAM	50	24	20.83	20.91	20.87	0.1211	0.1233	0.1222
20	64QAM	50	50	20.80	20.72	20.88	0.1202	0.1180	0.1225
20	64QAM	100	0	20.72	21.01	21.00	0.1180	0.1262	0.1259
Channel				18675	18900	19125	18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5	1857.5	1880	1902.5
15	QPSK	1	0	23.73	23.89	23.75	0.2360	0.2449	0.2371
15	QPSK	1	37	23.65	23.77	23.71	0.2317	0.2382	0.2350
15	QPSK	1	74	23.62	23.81	23.60	0.2301	0.2404	0.2291
15	QPSK	36	0	22.79	22.91	22.84	0.1901	0.1954	0.1923
15	QPSK	36	20	22.80	22.79	22.65	0.1905	0.1901	0.1841
15	QPSK	36	39	22.81	22.83	22.74	0.1910	0.1919	0.1879
15	QPSK	75	0	22.84	22.84	22.74	0.1923	0.1923	0.1879
15	16QAM	1	0	22.87	22.90	22.80	0.1936	0.1950	0.1905



15	16QAM	1	37	22.72	22.95	22.81	0.1871	0.1972	0.1910
15	16QAM	1	74	22.81	22.78	22.86	0.1910	0.1897	0.1932
15	16QAM	36	0	21.95	21.92	21.90	0.1567	0.1556	0.1549
15	16QAM	36	20	21.77	21.80	21.74	0.1503	0.1514	0.1493
15	16QAM	36	39	21.75	21.91	21.77	0.1496	0.1552	0.1503
15	16QAM	75	0	21.73	21.81	21.79	0.1489	0.1517	0.1510
15	64QAM	1	0	21.74	21.93	21.78	0.1493	0.1560	0.1507
15	64QAM	1	37	21.65	21.81	21.77	0.1462	0.1517	0.1503
15	64QAM	1	74	21.71	21.74	21.71	0.1483	0.1493	0.1483
15	64QAM	36	0	20.67	20.86	20.71	0.1167	0.1219	0.1178
15	64QAM	36	20	20.80	20.82	20.80	0.1202	0.1208	0.1202
15	64QAM	36	39	20.77	20.60	20.79	0.1194	0.1148	0.1199
15	64QAM	75	0	20.67	20.90	20.96	0.1167	0.1230	0.1247
Channel				18650	18900	19150	18650	18900	19150
Frequency (MHz)				1855	1880	1905	1855	1880	1905
10	QPSK	1	0	23.68	23.85	23.76	0.2333	0.2427	0.2377
10	QPSK	1	25	23.71	23.77	23.74	0.2350	0.2382	0.2366
10	QPSK	1	49	23.64	23.84	23.65	0.2312	0.2421	0.2317
10	QPSK	25	0	22.81	22.89	22.80	0.1910	0.1945	0.1905
10	QPSK	25	12	22.75	22.80	22.64	0.1884	0.1905	0.1837
10	QPSK	25	25	22.81	22.83	22.70	0.1910	0.1919	0.1862
10	QPSK	50	0	22.88	22.80	22.78	0.1941	0.1905	0.1897
10	16QAM	1	0	22.89	22.99	22.83	0.1945	0.1991	0.1919
10	16QAM	1	25	22.73	22.97	22.83	0.1875	0.1982	0.1919
10	16QAM	1	49	22.80	22.85	22.86	0.1905	0.1928	0.1932
10	16QAM	25	0	21.88	21.94	21.81	0.1542	0.1563	0.1517
10	16QAM	25	12	21.80	21.85	21.69	0.1514	0.1531	0.1476
10	16QAM	25	25	21.74	21.83	21.82	0.1493	0.1524	0.1521
10	16QAM	50	0	21.79	21.80	21.68	0.1510	0.1514	0.1472
10	64QAM	1	0	21.73	21.98	21.74	0.1489	0.1578	0.1493
10	64QAM	1	25	21.59	21.86	21.73	0.1442	0.1535	0.1489
10	64QAM	1	49	21.61	21.80	21.65	0.1449	0.1514	0.1462
10	64QAM	25	0	20.74	20.76	20.75	0.1186	0.1191	0.1189
10	64QAM	25	12	20.73	20.79	20.83	0.1183	0.1199	0.1211
10	64QAM	25	25	20.77	20.64	20.86	0.1194	0.1159	0.1219
10	64QAM	50	0	20.61	20.89	20.97	0.1151	0.1227	0.1250
Channel				18625	18900	19175	18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5	1852.5	1880	1907.5
5	QPSK	1	0	23.66	23.91	23.81	0.2323	0.2460	0.2404
5	QPSK	1	12	23.64	23.75	23.71	0.2312	0.2371	0.2350
5	QPSK	1	24	23.59	23.82	23.65	0.2286	0.2410	0.2317
5	QPSK	12	0	22.81	22.81	22.79	0.1910	0.1910	0.1901
5	QPSK	12	7	22.69	22.87	22.70	0.1858	0.1936	0.1862
5	QPSK	12	13	22.82	22.78	22.68	0.1914	0.1897	0.1854
5	QPSK	25	0	22.85	22.90	22.70	0.1928	0.1950	0.1862
5	16QAM	1	0	22.79	22.98	22.83	0.1901	0.1986	0.1919
5	16QAM	1	12	22.71	22.94	22.90	0.1866	0.1968	0.1950



5	16QAM	1	24	22.78	22.88	22.85	0.1897	0.1941	0.1928
5	16QAM	12	0	21.86	21.91	21.81	0.1535	0.1552	0.1517
5	16QAM	12	7	21.75	21.80	21.68	0.1496	0.1514	0.1472
5	16QAM	12	13	21.80	21.90	21.77	0.1514	0.1549	0.1503
5	16QAM	25	0	21.70	21.82	21.70	0.1479	0.1521	0.1479
5	64QAM	1	0	21.76	21.94	21.77	0.1500	0.1563	0.1503
5	64QAM	1	12	21.68	21.80	21.75	0.1472	0.1514	0.1496
5	64QAM	1	24	21.71	21.78	21.66	0.1483	0.1507	0.1466
5	64QAM	12	0	20.65	20.82	20.71	0.1161	0.1208	0.1178
5	64QAM	12	7	20.78	20.88	20.73	0.1197	0.1225	0.1183
5	64QAM	12	13	20.77	20.70	20.77	0.1194	0.1175	0.1194
5	64QAM	25	0	20.69	20.93	20.93	0.1172	0.1239	0.1239
Channel				18615	18900	19185	18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5	1851.5	1880	1908.5
3	QPSK	1	0	23.66	23.87	23.78	0.2323	0.2438	0.2388
3	QPSK	1	8	23.62	23.78	23.71	0.2301	0.2388	0.2350
3	QPSK	1	14	23.63	23.84	23.70	0.2307	0.2421	0.2344
3	QPSK	8	0	22.82	22.83	22.84	0.1914	0.1919	0.1923
3	QPSK	8	4	22.73	22.82	22.62	0.1875	0.1914	0.1828
3	QPSK	8	7	22.76	22.77	22.77	0.1888	0.1892	0.1892
3	QPSK	15	0	22.85	22.85	22.72	0.1928	0.1928	0.1871
3	16QAM	1	0	22.80	22.90	22.89	0.1905	0.1950	0.1945
3	16QAM	1	8	22.78	22.99	22.92	0.1897	0.1991	0.1959
3	16QAM	1	14	22.79	22.80	22.79	0.1901	0.1905	0.1901
3	16QAM	8	0	21.91	21.90	21.88	0.1552	0.1549	0.1542
3	16QAM	8	4	21.77	21.87	21.70	0.1503	0.1538	0.1479
3	16QAM	8	7	21.70	21.85	21.82	0.1479	0.1531	0.1521
3	16QAM	15	0	21.80	21.85	21.69	0.1514	0.1531	0.1476
3	64QAM	1	0	21.77	21.92	21.77	0.1503	0.1556	0.1503
3	64QAM	1	8	21.69	21.83	21.78	0.1476	0.1524	0.1507
3	64QAM	1	14	21.64	21.77	21.66	0.1459	0.1503	0.1466
3	64QAM	8	0	20.74	20.83	20.76	0.1186	0.1211	0.1191
3	64QAM	8	4	20.74	20.81	20.81	0.1186	0.1205	0.1205
3	64QAM	8	7	20.70	20.66	20.78	0.1175	0.1164	0.1197
3	64QAM	15	0	20.64	20.93	20.94	0.1159	0.1239	0.1242
Channel				18607	18900	19193	18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3	1850.7	1880	1909.3
1.4	QPSK	1	0	23.73	23.86	23.79	0.2360	0.2432	0.2393
1.4	QPSK	1	3	23.71	23.76	23.68	0.2350	0.2377	0.2333
1.4	QPSK	1	5	23.56	23.80	23.71	0.2270	0.2399	0.2350
1.4	QPSK	3	0	23.62	23.76	23.71	0.2301	0.2377	0.2350
1.4	QPSK	3	1	23.59	23.70	23.59	0.2286	0.2344	0.2286
1.4	QPSK	3	3	23.48	23.73	23.64	0.2228	0.2360	0.2312
1.4	QPSK	6	0	22.81	22.89	22.71	0.1910	0.1945	0.1866
1.4	16QAM	1	0	22.90	22.95	22.87	0.1950	0.1972	0.1936
1.4	16QAM	1	3	22.76	22.93	22.91	0.1888	0.1963	0.1954
1.4	16QAM	1	5	22.80	22.86	22.82	0.1905	0.1932	0.1914



1.4	16QAM	3	0	22.75	22.76	22.59	0.1884	0.1888	0.1816
1.4	16QAM	3	1	22.87	22.89	22.74	0.1936	0.1945	0.1879
1.4	16QAM	3	3	22.65	22.86	22.87	0.1841	0.1932	0.1936
1.4	16QAM	6	0	21.76	21.83	21.70	0.1500	0.1524	0.1479
1.4	64QAM	1	0	21.72	21.93	21.82	0.1486	0.1560	0.1521
1.4	64QAM	1	3	21.61	21.84	21.79	0.1449	0.1528	0.1510
1.4	64QAM	1	5	21.62	21.82	21.74	0.1452	0.1521	0.1493
1.4	64QAM	3	0	21.63	21.81	21.64	0.1455	0.1517	0.1459
1.4	64QAM	3	1	21.60	21.86	21.79	0.1445	0.1535	0.1510
1.4	64QAM	3	3	21.53	21.75	21.70	0.1422	0.1496	0.1479
1.4	64QAM	6	0	20.68	20.98	20.93	0.1169	0.1253	0.1239

LTE Band 4_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				20050	20175	20300	20050	20175	20300
Frequency (MHz)				1720	1732.5	1745	1720	1732.5	1745
20	QPSK	1	0	23.89	24.04	23.91	0.2449	0.2535	0.2460
20	QPSK	1	49	23.86	23.98	23.94	0.2432	0.2500	0.2477
20	QPSK	1	99	23.80	23.88	23.89	0.2399	0.2443	0.2449
20	QPSK	50	0	23.07	23.17	23.06	0.2028	0.2075	0.2023
20	QPSK	50	24	22.95	23.15	22.93	0.1972	0.2065	0.1963
20	QPSK	50	50	22.93	22.97	22.98	0.1963	0.1982	0.1986
20	QPSK	100	0	22.95	23.01	22.98	0.1972	0.2000	0.1986
20	16QAM	1	0	23.06	23.19	23.09	0.2023	0.2084	0.2037
20	16QAM	1	49	23.06	23.17	23.08	0.2023	0.2075	0.2032
20	16QAM	1	99	22.98	23.04	22.94	0.1986	0.2014	0.1968
20	16QAM	50	0	22.06	22.21	22.09	0.1607	0.1663	0.1618
20	16QAM	50	24	21.93	21.96	22.03	0.1560	0.1570	0.1596
20	16QAM	50	50	21.94	22.12	21.97	0.1563	0.1629	0.1574
20	16QAM	100	0	21.96	22.07	22.02	0.1570	0.1611	0.1592
20	64QAM	1	0	21.88	22.08	21.90	0.1542	0.1614	0.1549
20	64QAM	1	49	21.89	21.94	21.91	0.1545	0.1563	0.1552
20	64QAM	1	99	21.89	22.13	21.91	0.1545	0.1633	0.1552
20	64QAM	50	0	20.95	21.02	20.88	0.1245	0.1265	0.1225
20	64QAM	50	24	20.84	20.96	21.06	0.1213	0.1247	0.1276
20	64QAM	50	50	20.93	21.13	20.95	0.1239	0.1297	0.1245
20	64QAM	100	0	20.91	21.09	20.92	0.1233	0.1285	0.1236
Channel				20025	20175	20325	20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
15	QPSK	1	0	23.84	23.98	23.87	0.2421	0.2500	0.2438
15	QPSK	1	37	23.77	23.93	23.87	0.2382	0.2472	0.2438
15	QPSK	1	74	23.75	23.75	23.77	0.2371	0.2371	0.2382
15	QPSK	36	0	23.03	23.09	22.96	0.2009	0.2037	0.1977
15	QPSK	36	20	22.81	23.03	22.83	0.1910	0.2009	0.1919
15	QPSK	36	39	22.90	22.91	22.85	0.1950	0.1954	0.1928



15	QPSK	75	0	22.81	22.87	22.88	0.1910	0.1936	0.1941
15	16QAM	1	0	23.00	23.13	23.01	0.1995	0.2056	0.2000
15	16QAM	1	37	23.03	23.14	23.02	0.2009	0.2061	0.2004
15	16QAM	1	74	22.92	22.90	22.91	0.1959	0.1950	0.1954
15	16QAM	36	0	21.94	22.09	22.06	0.1563	0.1618	0.1607
15	16QAM	36	20	21.81	21.92	21.99	0.1517	0.1556	0.1581
15	16QAM	36	39	21.87	21.99	21.92	0.1538	0.1581	0.1556
15	16QAM	75	0	21.90	21.95	21.98	0.1549	0.1567	0.1578
15	64QAM	1	0	21.85	22.05	21.80	0.1531	0.1603	0.1514
15	64QAM	1	37	21.77	21.82	21.87	0.1503	0.1521	0.1538
15	64QAM	1	74	21.75	22.11	21.81	0.1496	0.1626	0.1517
15	64QAM	36	0	20.87	20.93	20.85	0.1222	0.1239	0.1216
15	64QAM	36	20	20.77	20.85	20.98	0.1194	0.1216	0.1253
15	64QAM	36	39	20.79	21.06	20.84	0.1199	0.1276	0.1213
15	64QAM	75	0	20.82	20.98	20.88	0.1208	0.1253	0.1225
Channel				20000	20175	20350	20000	20175	20350
Frequency (MHz)				1715	1732.5	1750	1715	1732.5	1750
10	QPSK	1	0	23.82	24.01	23.85	0.2410	0.2518	0.2427
10	QPSK	1	25	23.76	23.96	23.82	0.2377	0.2489	0.2410
10	QPSK	1	49	23.66	23.79	23.78	0.2323	0.2393	0.2388
10	QPSK	25	0	23.05	23.04	22.97	0.2018	0.2014	0.1982
10	QPSK	25	12	22.87	23.03	22.81	0.1936	0.2009	0.1910
10	QPSK	25	25	22.81	22.93	22.92	0.1910	0.1963	0.1959
10	QPSK	50	0	22.88	22.92	22.92	0.1941	0.1959	0.1959
10	16QAM	1	0	22.99	23.07	23.01	0.1991	0.2028	0.2000
10	16QAM	1	25	22.93	23.14	23.05	0.1963	0.2061	0.2018
10	16QAM	1	49	22.89	22.96	22.81	0.1945	0.1977	0.1910
10	16QAM	25	0	21.96	22.12	21.96	0.1570	0.1629	0.1570
10	16QAM	25	12	21.84	21.93	21.91	0.1528	0.1560	0.1552
10	16QAM	25	25	21.84	22.08	21.83	0.1528	0.1614	0.1524
10	16QAM	50	0	21.83	22.00	21.94	0.1524	0.1585	0.1563
10	64QAM	1	0	21.86	21.94	21.83	0.1535	0.1563	0.1524
10	64QAM	1	25	21.81	21.89	21.78	0.1517	0.1545	0.1507
10	64QAM	1	49	21.80	22.00	21.82	0.1514	0.1585	0.1521
10	64QAM	25	0	20.85	20.94	20.86	0.1216	0.1242	0.1219
10	64QAM	25	12	20.80	20.84	20.95	0.1202	0.1213	0.1245
10	64QAM	25	25	20.81	21.01	20.91	0.1205	0.1262	0.1233
10	64QAM	50	0	20.81	20.98	20.88	0.1205	0.1253	0.1225
Channel				19975	20175	20375	19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
5	QPSK	1	0	23.83	24.01	23.78	0.2415	0.2518	0.2388
5	QPSK	1	12	23.77	23.87	23.84	0.2382	0.2438	0.2421
5	QPSK	1	24	23.66	23.79	23.76	0.2323	0.2393	0.2377
5	QPSK	12	0	23.01	23.07	23.02	0.2000	0.2028	0.2004
5	QPSK	12	7	22.88	23.03	22.82	0.1941	0.2009	0.1914
5	QPSK	12	13	22.82	22.95	22.87	0.1914	0.1972	0.1936
5	QPSK	25	0	22.85	22.91	22.89	0.1928	0.1954	0.1945



5	16QAM	1	0	22.92	23.12	23.00	0.1959	0.2051	0.1995
5	16QAM	1	12	22.95	23.10	23.05	0.1972	0.2042	0.2018
5	16QAM	1	24	22.92	23.00	22.86	0.1959	0.1995	0.1932
5	16QAM	12	0	22.00	22.12	22.04	0.1585	0.1629	0.1600
5	16QAM	12	7	21.87	21.89	22.00	0.1538	0.1545	0.1585
5	16QAM	12	13	21.87	22.09	21.93	0.1538	0.1618	0.1560
5	16QAM	25	0	21.90	22.04	21.89	0.1549	0.1600	0.1545
5	64QAM	1	0	21.85	22.06	21.76	0.1531	0.1607	0.1500
5	64QAM	1	12	21.84	21.85	21.88	0.1528	0.1531	0.1542
5	64QAM	1	24	21.83	22.08	21.87	0.1524	0.1614	0.1538
5	64QAM	12	0	20.88	20.97	20.78	0.1225	0.1250	0.1197
5	64QAM	12	7	20.70	20.90	20.94	0.1175	0.1230	0.1242
5	64QAM	12	13	20.89	21.00	20.89	0.1227	0.1259	0.1227
5	64QAM	25	0	20.87	21.04	20.80	0.1222	0.1271	0.1202
Channel				19965	20175	20385	19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
3	QPSK	1	0	23.86	24.00	23.81	0.2432	0.2512	0.2404
3	QPSK	1	8	23.80	23.86	23.91	0.2399	0.2432	0.2460
3	QPSK	1	14	23.67	23.82	23.75	0.2328	0.2410	0.2371
3	QPSK	8	0	23.01	23.07	22.93	0.2000	0.2028	0.1963
3	QPSK	8	4	22.84	23.11	22.89	0.1923	0.2046	0.1945
3	QPSK	8	7	22.85	22.91	22.91	0.1928	0.1954	0.1954
3	QPSK	15	0	22.87	22.93	22.93	0.1936	0.1963	0.1963
3	16QAM	1	0	22.97	23.09	23.04	0.1982	0.2037	0.2014
3	16QAM	1	8	23.03	23.12	23.04	0.2009	0.2051	0.2014
3	16QAM	1	14	22.93	22.96	22.86	0.1963	0.1977	0.1932
3	16QAM	8	0	21.96	22.08	22.04	0.1570	0.1614	0.1600
3	16QAM	8	4	21.82	21.82	21.92	0.1521	0.1521	0.1556
3	16QAM	8	7	21.87	22.04	21.85	0.1538	0.1600	0.1531
3	16QAM	15	0	21.84	21.94	21.93	0.1528	0.1563	0.1560
3	64QAM	1	0	21.82	21.94	21.76	0.1521	0.1563	0.1500
3	64QAM	1	8	21.78	21.86	21.85	0.1507	0.1535	0.1531
3	64QAM	1	14	21.86	22.09	21.89	0.1535	0.1618	0.1545
3	64QAM	8	0	20.83	20.94	20.84	0.1211	0.1242	0.1213
3	64QAM	8	4	20.77	20.91	20.96	0.1194	0.1233	0.1247
3	64QAM	8	7	20.79	21.01	20.92	0.1199	0.1262	0.1236
3	64QAM	15	0	20.78	20.98	20.82	0.1197	0.1253	0.1208
Channel				19957	20175	20393	19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.77	23.95	23.77	0.2382	0.2483	0.2382
1.4	QPSK	1	3	23.82	23.87	23.82	0.2410	0.2438	0.2410
1.4	QPSK	1	5	23.73	23.82	23.82	0.2360	0.2410	0.2410
1.4	QPSK	3	0	23.68	23.87	23.72	0.2333	0.2438	0.2355
1.4	QPSK	3	1	23.78	23.81	23.70	0.2388	0.2404	0.2344
1.4	QPSK	3	3	23.68	23.79	23.73	0.2333	0.2393	0.2360
1.4	QPSK	6	0	22.86	22.89	22.91	0.1932	0.1945	0.1954
1.4	16QAM	1	0	22.92	23.06	23.05	0.1959	0.2023	0.2018



1.4	16QAM	1	3	22.95	23.04	22.99	0.1972	0.2014	0.1991
1.4	16QAM	1	5	22.93	22.90	22.87	0.1963	0.1950	0.1936
1.4	16QAM	3	0	22.76	22.78	22.83	0.1888	0.1897	0.1919
1.4	16QAM	3	1	22.89	23.03	23.03	0.1945	0.2009	0.2009
1.4	16QAM	3	3	22.92	22.97	22.88	0.1959	0.1982	0.1941
1.4	16QAM	6	0	21.90	22.02	21.89	0.1549	0.1592	0.1545
1.4	64QAM	1	0	21.82	21.99	21.76	0.1521	0.1581	0.1500
1.4	64QAM	1	3	21.78	21.91	21.80	0.1507	0.1552	0.1514
1.4	64QAM	1	5	21.82	22.09	21.87	0.1521	0.1618	0.1538
1.4	64QAM	3	0	21.78	21.96	21.79	0.1507	0.1570	0.1510
1.4	64QAM	3	1	21.79	21.96	21.71	0.1510	0.1570	0.1483
1.4	64QAM	3	3	21.68	21.78	21.67	0.1472	0.1507	0.1469
1.4	64QAM	6	0	20.86	20.98	20.78	0.1219	0.1253	0.1197

LTE Band 5_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				20450	20525	20600	20450	20525	20600
Frequency (MHz)				829	836.5	844	829	836.5	844
10	QPSK	1	0	22.86	23.08	23.00	0.0364	0.0383	0.0376
10	QPSK	1	25	22.84	22.95	22.88	0.0362	0.0372	0.0366
10	QPSK	1	49	22.79	22.87	22.85	0.0358	0.0365	0.0363
10	QPSK	25	0	22.08	22.06	22.08	0.0304	0.0303	0.0304
10	QPSK	25	12	21.91	22.06	21.86	0.0292	0.0303	0.0289
10	QPSK	25	25	22.00	21.94	21.90	0.0299	0.0294	0.0292
10	QPSK	50	0	21.85	22.05	22.04	0.0288	0.0302	0.0301
10	16QAM	1	0	22.12	22.19	22.08	0.0307	0.0312	0.0304
10	16QAM	1	25	22.10	22.07	22.03	0.0305	0.0303	0.0301
10	16QAM	1	49	21.99	21.99	22.03	0.0298	0.0298	0.0301
10	16QAM	25	0	21.01	21.16	21.02	0.0238	0.0246	0.0238
10	16QAM	25	12	20.96	20.96	20.95	0.0235	0.0235	0.0234
10	16QAM	25	25	20.91	21.05	20.98	0.0232	0.0240	0.0236
10	16QAM	50	0	20.83	21.03	20.92	0.0228	0.0239	0.0233
10	64QAM	1	0	20.78	21.03	20.92	0.0225	0.0239	0.0233
10	64QAM	1	25	20.95	21.08	21.07	0.0234	0.0242	0.0241
10	64QAM	1	49	20.94	20.99	21.09	0.0234	0.0237	0.0242
10	64QAM	25	0	19.88	20.00	20.00	0.0183	0.0188	0.0188
10	64QAM	25	12	19.93	20.15	19.98	0.0185	0.0195	0.0187
10	64QAM	25	25	19.89	20.00	20.05	0.0184	0.0188	0.0191
10	64QAM	50	0	19.86	20.08	20.09	0.0182	0.0192	0.0192
Channel				20425	20525	20625	20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	QPSK	1	0	22.81	23.05	22.88	0.0360	0.0380	0.0366
5	QPSK	1	12	22.74	22.85	22.82	0.0354	0.0363	0.0361
5	QPSK	1	24	22.66	22.81	22.79	0.0348	0.0360	0.0358
5	QPSK	12	0	22.03	21.97	22.02	0.0301	0.0296	0.0300



5	QPSK	12	7	21.86	21.92	21.75	0.0289	0.0293	0.0282
5	QPSK	12	13	21.88	21.80	21.85	0.0290	0.0285	0.0288
5	QPSK	25	0	21.78	21.97	21.97	0.0284	0.0296	0.0296
5	16QAM	1	0	22.08	22.14	21.96	0.0304	0.0308	0.0296
5	16QAM	1	12	22.05	22.03	21.91	0.0302	0.0301	0.0292
5	16QAM	1	24	21.85	21.90	21.90	0.0288	0.0292	0.0292
5	16QAM	12	0	20.89	21.03	20.95	0.0231	0.0239	0.0234
5	16QAM	12	7	20.92	20.88	20.91	0.0233	0.0231	0.0232
5	16QAM	12	13	20.78	20.91	20.94	0.0225	0.0232	0.0234
5	16QAM	25	0	20.75	20.88	20.78	0.0224	0.0231	0.0225
5	64QAM	1	0	20.88	21.01	21.09	0.0231	0.0238	0.0242
5	64QAM	1	12	20.95	21.04	21.07	0.0234	0.0239	0.0241
5	64QAM	1	24	20.89	21.05	20.93	0.0231	0.0240	0.0233
5	64QAM	12	0	19.88	20.01	19.97	0.0183	0.0189	0.0187
5	64QAM	12	7	19.79	20.06	19.95	0.0179	0.0191	0.0186
5	64QAM	12	13	19.86	20.12	20.08	0.0182	0.0194	0.0192
5	64QAM	25	0	19.88	20.03	19.96	0.0183	0.0190	0.0187
Channel				20415	20525	20635	20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5	825.5	836.5	847.5
3	QPSK	1	0	22.80	22.96	22.88	0.0359	0.0372	0.0366
3	QPSK	1	8	22.75	22.80	22.76	0.0355	0.0359	0.0356
3	QPSK	1	14	22.65	22.74	22.78	0.0347	0.0354	0.0357
3	QPSK	8	0	21.98	22.03	22.04	0.0297	0.0301	0.0301
3	QPSK	8	4	21.80	22.01	21.80	0.0285	0.0299	0.0285
3	QPSK	8	7	21.87	21.82	21.83	0.0290	0.0286	0.0287
3	QPSK	15	0	21.72	22.02	21.99	0.0280	0.0300	0.0298
3	16QAM	1	0	22.03	22.04	22.05	0.0301	0.0301	0.0302
3	16QAM	1	8	22.04	21.92	22.00	0.0301	0.0293	0.0299
3	16QAM	1	14	21.91	21.88	22.00	0.0292	0.0290	0.0299
3	16QAM	8	0	20.96	21.09	20.99	0.0235	0.0242	0.0237
3	16QAM	8	4	20.84	20.83	20.82	0.0229	0.0228	0.0228
3	16QAM	8	7	20.78	20.92	20.88	0.0225	0.0233	0.0231
3	16QAM	15	0	20.76	20.92	20.85	0.0224	0.0233	0.0229
3	64QAM	1	0	20.86	21.10	21.00	0.0230	0.0243	0.0237
3	64QAM	1	8	20.94	21.14	21.04	0.0234	0.0245	0.0239
3	64QAM	1	14	20.85	21.13	20.94	0.0229	0.0244	0.0234
3	64QAM	8	0	19.80	20.14	20.01	0.0180	0.0195	0.0189
3	64QAM	8	4	19.81	20.13	19.96	0.0180	0.0194	0.0187
3	64QAM	8	7	19.91	20.10	19.99	0.0185	0.0193	0.0188
3	64QAM	15	0	19.89	20.07	19.94	0.0184	0.0191	0.0186
Channel				20407	20525	20643	20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3	824.7	836.5	848.3
1.4	QPSK	1	0	22.76	23.03	22.94	0.0356	0.0378	0.0371
1.4	QPSK	1	3	22.71	22.82	22.82	0.0352	0.0361	0.0361
1.4	QPSK	1	5	22.70	22.74	22.71	0.0351	0.0354	0.0352
1.4	QPSK	3	0	22.71	22.98	22.94	0.0352	0.0374	0.0371
1.4	QPSK	3	1	22.72	22.86	22.83	0.0352	0.0364	0.0361



1.4	QPSK	3	3	22.70	22.74	22.71	0.0351	0.0354	0.0352
1.4	QPSK	6	0	22.01	22.02	22.05	0.0299	0.0300	0.0302
1.4	16QAM	1	0	21.83	21.95	21.82	0.0287	0.0295	0.0286
1.4	16QAM	1	3	21.95	21.86	21.77	0.0295	0.0289	0.0283
1.4	16QAM	1	5	21.81	21.97	21.93	0.0286	0.0296	0.0294
1.4	16QAM	3	0	22.02	22.06	21.99	0.0300	0.0303	0.0298
1.4	16QAM	3	1	22.05	21.94	21.92	0.0302	0.0294	0.0293
1.4	16QAM	3	3	21.88	21.95	21.93	0.0290	0.0295	0.0294
1.4	16QAM	6	0	20.95	21.10	20.95	0.0234	0.0243	0.0234
1.4	64QAM	1	0	20.81	21.03	21.05	0.0227	0.0239	0.0240
1.4	64QAM	1	3	20.83	21.13	20.94	0.0228	0.0244	0.0234
1.4	64QAM	1	5	20.83	21.09	20.93	0.0228	0.0242	0.0233
1.4	64QAM	3	0	20.90	21.01	20.95	0.0232	0.0238	0.0234
1.4	64QAM	3	1	20.80	21.16	21.00	0.0226	0.0246	0.0237
1.4	64QAM	3	3	20.92	21.13	21.01	0.0233	0.0244	0.0238
1.4	64QAM	6	0	19.78	20.15	20.01	0.0179	0.0195	0.0189

LTE Band 25_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	23.71	23.99	23.69	0.2350	0.2506	0.2339
20	QPSK	1	49	23.60	23.66	23.61	0.2291	0.2323	0.2296
20	QPSK	1	99	23.56	23.64	23.62	0.2270	0.2312	0.2301
20	QPSK	50	0	22.71	22.75	22.65	0.1866	0.1884	0.1841
20	QPSK	50	24	22.68	22.76	22.69	0.1854	0.1888	0.1858
20	QPSK	50	50	22.60	22.67	22.72	0.1820	0.1849	0.1871
20	QPSK	100	0	22.65	22.76	22.72	0.1841	0.1888	0.1871
20	16QAM	1	0	22.90	22.94	22.89	0.1950	0.1968	0.1945
20	16QAM	1	49	22.76	22.74	22.79	0.1888	0.1879	0.1901
20	16QAM	1	99	22.75	22.78	22.78	0.1884	0.1897	0.1897
20	16QAM	50	0	21.79	21.88	21.73	0.1510	0.1542	0.1489
20	16QAM	50	24	21.70	21.75	21.76	0.1479	0.1496	0.1500
20	16QAM	50	50	21.77	21.80	21.66	0.1503	0.1514	0.1466
20	16QAM	100	0	21.65	21.80	21.67	0.1462	0.1514	0.1469
20	64QAM	1	0	21.56	21.92	21.67	0.1432	0.1556	0.1469
20	64QAM	1	49	21.73	21.83	21.74	0.1489	0.1524	0.1493
20	64QAM	1	99	21.72	21.79	21.69	0.1486	0.1510	0.1476
20	64QAM	50	0	20.62	20.75	20.80	0.1153	0.1189	0.1202
20	64QAM	50	24	20.62	20.85	20.76	0.1153	0.1216	0.1191
20	64QAM	50	50	20.70	20.73	20.76	0.1175	0.1183	0.1191
20	64QAM	100	0	20.64	20.74	20.58	0.1159	0.1186	0.1143
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	23.59	23.80	23.55	0.2286	0.2399	0.2265



15	QPSK	1	37	23.53	23.63	23.57	0.2254	0.2307	0.2275
15	QPSK	1	74	23.50	23.56	23.54	0.2239	0.2270	0.2259
15	QPSK	36	0	22.63	22.65	22.58	0.1832	0.1841	0.1811
15	QPSK	36	20	22.57	22.72	22.62	0.1807	0.1871	0.1828
15	QPSK	36	39	22.53	22.56	22.67	0.1791	0.1803	0.1849
15	QPSK	75	0	22.57	22.73	22.63	0.1807	0.1875	0.1832
15	16QAM	1	0	22.83	22.92	22.79	0.1919	0.1959	0.1901
15	16QAM	1	37	22.66	22.68	22.68	0.1845	0.1854	0.1854
15	16QAM	1	74	22.63	22.74	22.75	0.1832	0.1879	0.1884
15	16QAM	36	0	21.74	21.79	21.61	0.1493	0.1510	0.1449
15	16QAM	36	20	21.57	21.69	21.69	0.1435	0.1476	0.1476
15	16QAM	36	39	21.72	21.75	21.64	0.1486	0.1496	0.1459
15	16QAM	75	0	21.56	21.75	21.58	0.1432	0.1496	0.1439
15	64QAM	1	0	21.48	21.86	21.61	0.1406	0.1535	0.1449
15	64QAM	1	37	21.63	21.73	21.61	0.1455	0.1489	0.1449
15	64QAM	1	74	21.66	21.73	21.61	0.1466	0.1489	0.1449
15	64QAM	36	0	20.58	20.72	20.76	0.1143	0.1180	0.1191
15	64QAM	36	20	20.48	20.76	20.72	0.1117	0.1191	0.1180
15	64QAM	36	39	20.60	20.61	20.72	0.1148	0.1151	0.1180
15	64QAM	75	0	20.57	20.72	20.44	0.1140	0.1180	0.1107
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	23.61	23.70	23.56	0.2296	0.2344	0.2270
10	QPSK	1	25	23.49	23.55	23.52	0.2234	0.2265	0.2249
10	QPSK	1	49	23.46	23.56	23.58	0.2218	0.2270	0.2280
10	QPSK	25	0	22.57	22.62	22.61	0.1807	0.1828	0.1824
10	QPSK	25	12	22.56	22.66	22.66	0.1803	0.1845	0.1845
10	QPSK	25	25	22.55	22.55	22.68	0.1799	0.1799	0.1854
10	QPSK	50	0	22.57	22.71	22.64	0.1807	0.1866	0.1837
10	16QAM	1	0	22.85	22.83	22.85	0.1928	0.1919	0.1928
10	16QAM	1	25	22.72	22.65	22.68	0.1871	0.1841	0.1854
10	16QAM	1	49	22.63	22.71	22.67	0.1832	0.1866	0.1849
10	16QAM	25	0	21.68	21.77	21.63	0.1472	0.1503	0.1455
10	16QAM	25	12	21.60	21.62	21.64	0.1445	0.1452	0.1459
10	16QAM	25	25	21.66	21.74	21.58	0.1466	0.1493	0.1439
10	16QAM	50	0	21.59	21.72	21.64	0.1442	0.1486	0.1459
10	64QAM	1	0	21.51	21.78	21.64	0.1416	0.1507	0.1459
10	64QAM	1	25	21.62	21.74	21.69	0.1452	0.1493	0.1476
10	64QAM	1	49	21.62	21.71	21.63	0.1452	0.1483	0.1455
10	64QAM	25	0	20.57	20.68	20.75	0.1140	0.1169	0.1189
10	64QAM	25	12	20.51	20.83	20.71	0.1125	0.1211	0.1178
10	64QAM	25	25	20.67	20.65	20.63	0.1167	0.1161	0.1156
10	64QAM	50	0	20.58	20.70	20.50	0.1143	0.1175	0.1122
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	23.63	23.81	23.59	0.2307	0.2404	0.2286
5	QPSK	1	12	23.48	23.55	23.51	0.2228	0.2265	0.2244



5	QPSK	1	24	23.47	23.59	23.48	0.2223	0.2286	0.2228
5	QPSK	12	0	22.67	22.71	22.63	0.1849	0.1866	0.1832
5	QPSK	12	7	22.55	22.65	22.59	0.1799	0.1841	0.1816
5	QPSK	12	13	22.56	22.53	22.61	0.1803	0.1791	0.1824
5	QPSK	25	0	22.58	22.63	22.68	0.1811	0.1832	0.1854
5	16QAM	1	0	22.76	22.89	22.84	0.1888	0.1945	0.1923
5	16QAM	1	12	22.63	22.61	22.76	0.1832	0.1824	0.1888
5	16QAM	1	24	22.70	22.64	22.70	0.1862	0.1837	0.1862
5	16QAM	12	0	21.67	21.79	21.69	0.1469	0.1510	0.1476
5	16QAM	12	7	21.60	21.62	21.67	0.1445	0.1452	0.1469
5	16QAM	12	13	21.68	21.73	21.53	0.1472	0.1489	0.1422
5	16QAM	25	0	21.56	21.73	21.61	0.1432	0.1489	0.1449
5	64QAM	1	0	21.50	21.84	21.58	0.1413	0.1528	0.1439
5	64QAM	1	12	21.69	21.80	21.70	0.1476	0.1514	0.1479
5	64QAM	1	24	21.68	21.77	21.57	0.1472	0.1503	0.1435
5	64QAM	12	0	20.53	20.61	20.70	0.1130	0.1151	0.1175
5	64QAM	12	7	20.55	20.75	20.64	0.1135	0.1189	0.1159
5	64QAM	12	13	20.66	20.68	20.69	0.1164	0.1169	0.1172
5	64QAM	25	0	20.59	20.69	20.53	0.1146	0.1172	0.1130
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	23.64	23.76	23.61	0.2312	0.2377	0.2296
3	QPSK	1	8	23.57	23.56	23.48	0.2275	0.2270	0.2228
3	QPSK	1	14	23.49	23.60	23.55	0.2234	0.2291	0.2265
3	QPSK	8	0	22.60	22.70	22.54	0.1820	0.1862	0.1795
3	QPSK	8	4	22.62	22.62	22.59	0.1828	0.1828	0.1816
3	QPSK	8	7	22.50	22.60	22.62	0.1778	0.1820	0.1828
3	QPSK	15	0	22.53	22.64	22.65	0.1791	0.1837	0.1841
3	16QAM	1	0	22.81	22.89	22.77	0.1910	0.1945	0.1892
3	16QAM	1	8	22.71	22.69	22.67	0.1866	0.1858	0.1849
3	16QAM	1	14	22.65	22.71	22.72	0.1841	0.1866	0.1871
3	16QAM	8	0	21.73	21.79	21.60	0.1489	0.1510	0.1445
3	16QAM	8	4	21.60	21.65	21.68	0.1445	0.1462	0.1472
3	16QAM	8	7	21.65	21.69	21.56	0.1462	0.1476	0.1432
3	16QAM	15	0	21.53	21.71	21.54	0.1422	0.1483	0.1426
3	64QAM	1	0	21.49	21.88	21.56	0.1409	0.1542	0.1432
3	64QAM	1	8	21.62	21.80	21.60	0.1452	0.1514	0.1445
3	64QAM	1	14	21.64	21.72	21.58	0.1459	0.1486	0.1439
3	64QAM	8	0	20.56	20.63	20.73	0.1138	0.1156	0.1183
3	64QAM	8	4	20.54	20.81	20.63	0.1132	0.1205	0.1156
3	64QAM	8	7	20.57	20.70	20.73	0.1140	0.1175	0.1183
3	64QAM	15	0	20.53	20.62	20.55	0.1130	0.1153	0.1135
Channel				26047	26340	26683	26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3	1850.7	1880	1914.3
1.4	QPSK	1	0	23.58	23.75	23.61	0.2280	0.2371	0.2296
1.4	QPSK	1	3	23.50	23.61	23.56	0.2239	0.2296	0.2270
1.4	QPSK	1	5	23.46	23.55	23.56	0.2218	0.2265	0.2270



1.4	QPSK	3	0	23.48	23.63	23.54	0.2228	0.2307	0.2259
1.4	QPSK	3	1	23.43	23.47	23.51	0.2203	0.2223	0.2244
1.4	QPSK	3	3	23.37	23.48	23.50	0.2173	0.2228	0.2239
1.4	QPSK	6	0	22.53	22.69	22.62	0.1791	0.1858	0.1828
1.4	16QAM	1	0	22.83	22.89	22.82	0.1919	0.1945	0.1914
1.4	16QAM	1	3	22.70	22.69	22.66	0.1862	0.1858	0.1845
1.4	16QAM	1	5	22.66	22.72	22.72	0.1845	0.1871	0.1871
1.4	16QAM	3	0	22.40	22.57	22.57	0.1738	0.1807	0.1807
1.4	16QAM	3	1	22.72	22.82	22.74	0.1871	0.1914	0.1879
1.4	16QAM	3	3	22.59	22.61	22.52	0.1816	0.1824	0.1786
1.4	16QAM	6	0	21.55	21.76	21.63	0.1429	0.1500	0.1455
1.4	64QAM	1	0	21.43	21.80	21.62	0.1390	0.1514	0.1452
1.4	64QAM	1	3	21.69	21.78	21.63	0.1476	0.1507	0.1455
1.4	64QAM	1	5	21.58	21.75	21.66	0.1439	0.1496	0.1466
1.4	64QAM	3	0	21.51	21.73	21.54	0.1416	0.1489	0.1426
1.4	64QAM	3	1	21.40	21.77	21.52	0.1380	0.1503	0.1419
1.4	64QAM	3	3	21.66	21.65	21.58	0.1466	0.1462	0.1439
1.4	64QAM	6	0	20.61	20.63	20.55	0.1151	0.1156	0.1135

LTE Band 26_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Middle Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP	ERP
Channel				26790	26765	26865	26965	26790	26765	26865	26965
Frequency (MHz)				824	821.5	831.5	841.5	824	821.5	831.5	841.5
15	QPSK	1	0	23.14	23.02	23.19	23.07	0.0388	0.0378	0.0393	0.0382
15	QPSK	1	37	22.82	22.99	22.96	23.04	0.0361	0.0375	0.0372	0.0379
15	QPSK	1	74	22.90	22.92	23.01	22.95	0.0367	0.0369	0.0377	0.0372
15	QPSK	36	0	22.11	22.19	22.20	22.13	0.0306	0.0312	0.0313	0.0308
15	QPSK	36	20	22.08	21.97	22.17	21.91	0.0304	0.0296	0.0310	0.0292
15	QPSK	36	39	22.09	22.03	22.13	22.02	0.0305	0.0301	0.0308	0.0300
15	QPSK	75	0	22.13	22.05	22.18	22.06	0.0308	0.0302	0.0311	0.0303
15	16QAM	1	0	22.04	22.18	22.14	22.09	0.0301	0.0311	0.0308	0.0305
15	16QAM	1	37	22.05	22.07	22.14	22.09	0.0302	0.0303	0.0308	0.0305
15	16QAM	1	74	22.12	22.09	22.19	22.08	0.0307	0.0305	0.0312	0.0304
15	16QAM	36	0	21.02	21.05	21.16	20.97	0.0238	0.0240	0.0246	0.0236
15	16QAM	36	20	20.93	21.08	21.00	21.10	0.0233	0.0242	0.0237	0.0243
15	16QAM	36	39	20.97	21.06	21.05	21.09	0.0236	0.0240	0.0240	0.0242
15	16QAM	75	0	20.98	21.01	21.11	21.02	0.0236	0.0238	0.0243	0.0238
15	64QAM	1	0	21.14	20.88	21.24	21.16	0.0245	0.0231	0.0251	0.0246
15	64QAM	1	37	20.97	21.07	21.09	21.01	0.0236	0.0241	0.0242	0.0238
15	64QAM	1	74	21.00	20.94	21.07	21.18	0.0237	0.0234	0.0241	0.0247
15	64QAM	36	0	20.06	19.97	20.16	20.00	0.0191	0.0187	0.0195	0.0188
15	64QAM	36	20	20.13	19.93	20.22	19.95	0.0194	0.0185	0.0198	0.0186
15	64QAM	36	39	20.12	20.06	20.19	20.07	0.0194	0.0191	0.0197	0.0191
15	64QAM	75	0	20.16	20.07	20.24	20.20	0.0195	0.0191	0.0199	0.0197
Channel				-	26740	26865	26990	-	26740	26865	26990



Frequency (MHz)				-	819	831.5	844	-	819	831.5	844
10	QPSK	1	0	-	22.98	23.07	22.93	-	0.0374	0.0382	0.0370
10	QPSK	1	25	-	22.88	22.84	22.90	-	0.0366	0.0362	0.0367
10	QPSK	1	49	-	22.88	22.97	22.84	-	0.0366	0.0373	0.0362
10	QPSK	25	0	-	22.10	22.08	22.08	-	0.0305	0.0304	0.0304
10	QPSK	25	12	-	21.93	22.05	21.78	-	0.0294	0.0302	0.0284
10	QPSK	25	25	-	21.98	22.07	21.99	-	0.0297	0.0303	0.0298
10	QPSK	50	0	-	21.94	22.16	22.01	-	0.0294	0.0310	0.0299
10	16QAM	1	0	-	22.16	22.04	22.03	-	0.0310	0.0301	0.0301
10	16QAM	1	25	-	22.01	22.00	21.98	-	0.0299	0.0299	0.0297
10	16QAM	1	49	-	22.06	22.12	22.02	-	0.0303	0.0307	0.0300
10	16QAM	25	0	-	21.00	21.06	20.87	-	0.0237	0.0240	0.0230
10	16QAM	25	12	-	20.96	20.94	21.02	-	0.0235	0.0234	0.0238
10	16QAM	25	25	-	20.94	21.00	20.96	-	0.0234	0.0237	0.0235
10	16QAM	50	0	-	20.93	20.98	20.94	-	0.0233	0.0236	0.0234
10	64QAM	1	0	-	20.83	21.18	21.13	-	0.0228	0.0247	0.0244
10	64QAM	1	25	-	21.02	21.05	20.99	-	0.0238	0.0240	0.0237
10	64QAM	1	49	-	20.82	21.02	21.06	-	0.0228	0.0238	0.0240
10	64QAM	25	0	-	19.89	20.07	19.93	-	0.0184	0.0191	0.0185
10	64QAM	25	12	-	19.86	20.17	19.88	-	0.0182	0.0196	0.0183
10	64QAM	25	25	-	19.97	20.12	20.03	-	0.0187	0.0194	0.0190
10	64QAM	50	0	-	19.98	20.17	20.18	-	0.0187	0.0196	0.0196
Channel				-	26715	26865	27015	-	26715	26865	27015
Frequency (MHz)				-	816.5	831.5	846.5	-	816.5	831.5	846.5
5	QPSK	1	0	-	22.96	23.10	22.96	-	0.0372	0.0385	0.0372
5	QPSK	1	12	-	22.94	22.92	22.95	-	0.0371	0.0369	0.0372
5	QPSK	1	24	-	22.83	22.87	22.85	-	0.0361	0.0365	0.0363
5	QPSK	12	0	-	22.07	22.13	22.02	-	0.0303	0.0308	0.0300
5	QPSK	12	7	-	21.89	22.04	21.89	-	0.0291	0.0301	0.0291
5	QPSK	12	13	-	21.89	21.99	21.94	-	0.0291	0.0298	0.0294
5	QPSK	25	0	-	22.00	22.15	22.00	-	0.0299	0.0309	0.0299
5	16QAM	1	0	-	22.14	22.11	22.06	-	0.0308	0.0306	0.0303
5	16QAM	1	12	-	22.00	22.07	22.03	-	0.0299	0.0303	0.0301
5	16QAM	1	24	-	21.96	22.15	22.06	-	0.0296	0.0309	0.0303
5	16QAM	12	0	-	20.96	21.03	20.93	-	0.0235	0.0239	0.0233
5	16QAM	12	7	-	20.97	20.91	21.03	-	0.0236	0.0232	0.0239
5	16QAM	12	13	-	21.03	20.95	21.01	-	0.0239	0.0234	0.0238
5	16QAM	25	0	-	20.93	21.05	20.93	-	0.0233	0.0240	0.0233
5	64QAM	1	0	-	20.82	21.20	21.11	-	0.0228	0.0248	0.0243
5	64QAM	1	12	-	21.04	21.00	20.97	-	0.0239	0.0237	0.0236
5	64QAM	1	24	-	20.80	20.94	21.06	-	0.0226	0.0234	0.0240
5	64QAM	12	0	-	19.94	20.05	19.93	-	0.0186	0.0191	0.0185
5	64QAM	12	7	-	19.87	20.08	19.90	-	0.0183	0.0192	0.0184
5	64QAM	12	13	-	19.93	20.09	19.94	-	0.0185	0.0192	0.0186
5	64QAM	25	0	-	20.05	20.20	20.16	-	0.0191	0.0197	0.0195
Channel				-	26705	26865	27025	-	26705	26865	27025
Frequency (MHz)				-	815.5	831.5	847.5	-	815.5	831.5	847.5



3	QPSK	1	0	-	22.92	23.15	23.03	-	0.0369	0.0389	0.0378
3	QPSK	1	8	-	22.93	22.84	22.95	-	0.0370	0.0362	0.0372
3	QPSK	1	14	-	22.83	22.93	22.92	-	0.0361	0.0370	0.0369
3	QPSK	8	0	-	22.09	22.10	22.00	-	0.0305	0.0305	0.0299
3	QPSK	8	4	-	21.90	22.06	21.88	-	0.0292	0.0303	0.0290
3	QPSK	8	7	-	21.93	22.06	21.91	-	0.0294	0.0303	0.0292
3	QPSK	15	0	-	21.99	22.15	21.97	-	0.0298	0.0309	0.0296
3	16QAM	1	0	-	22.14	22.04	22.00	-	0.0308	0.0301	0.0299
3	16QAM	1	8	-	22.01	22.12	22.07	-	0.0299	0.0307	0.0303
3	16QAM	1	14	-	21.99	22.07	22.04	-	0.0298	0.0303	0.0301
3	16QAM	8	0	-	20.92	21.06	20.93	-	0.0233	0.0240	0.0233
3	16QAM	8	4	-	20.96	20.87	21.05	-	0.0235	0.0230	0.0240
3	16QAM	8	7	-	20.93	20.92	21.03	-	0.0233	0.0233	0.0239
3	16QAM	15	0	-	20.90	21.04	20.92	-	0.0232	0.0239	0.0233
3	64QAM	1	0	-	20.78	21.11	21.12	-	0.0225	0.0243	0.0244
3	64QAM	1	8	-	21.03	20.98	20.95	-	0.0239	0.0236	0.0234
3	64QAM	1	14	-	20.92	21.00	21.11	-	0.0233	0.0237	0.0243
3	64QAM	8	0	-	19.89	20.12	19.87	-	0.0184	0.0194	0.0183
3	64QAM	8	4	-	19.83	20.13	19.83	-	0.0181	0.0194	0.0181
3	64QAM	8	7	-	20.01	20.07	19.95	-	0.0189	0.0191	0.0186
3	64QAM	15	0	-	19.94	20.17	20.07	-	0.0186	0.0196	0.0191
Channel				-	26697	26865	27033	-	26697	26865	27033
Frequency (MHz)				-	814.7	831.5	848.3	-	814.7	831.5	848.3
1.4	QPSK	1	0	-	22.98	23.12	23.05	-	0.0374	0.0386	0.0380
1.4	QPSK	1	3	-	22.89	22.87	22.97	-	0.0366	0.0365	0.0373
1.4	QPSK	1	5	-	22.83	22.98	22.85	-	0.0361	0.0374	0.0363
1.4	QPSK	3	0	-	22.93	23.01	22.97	-	0.0370	0.0377	0.0373
1.4	QPSK	3	1	-	22.84	22.80	22.87	-	0.0362	0.0359	0.0365
1.4	QPSK	3	3	-	22.79	22.86	22.77	-	0.0358	0.0364	0.0356
1.4	QPSK	6	0	-	21.92	22.15	21.96	-	0.0293	0.0309	0.0296
1.4	16QAM	1	0	-	22.05	22.08	22.00	-	0.0302	0.0304	0.0299
1.4	16QAM	1	3	-	21.98	22.07	22.05	-	0.0297	0.0303	0.0302
1.4	16QAM	1	5	-	21.99	22.13	21.94	-	0.0298	0.0308	0.0294
1.4	16QAM	3	0	-	21.84	22.09	21.87	-	0.0288	0.0305	0.0290
1.4	16QAM	3	1	-	21.97	22.03	21.90	-	0.0296	0.0301	0.0292
1.4	16QAM	3	3	-	21.87	22.03	21.96	-	0.0290	0.0301	0.0296
1.4	16QAM	6	0	-	20.99	20.98	21.00	-	0.0237	0.0236	0.0237
1.4	64QAM	1	0	-	20.75	21.16	21.06	-	0.0224	0.0246	0.0240
1.4	64QAM	1	3	-	21.01	20.97	20.97	-	0.0238	0.0236	0.0236
1.4	64QAM	1	5	-	20.90	20.98	21.13	-	0.0232	0.0236	0.0244
1.4	64QAM	3	0	-	20.85	20.92	20.88	-	0.0229	0.0233	0.0231
1.4	64QAM	3	1	-	20.68	21.02	20.98	-	0.0220	0.0238	0.0236
1.4	64QAM	3	3	-	20.91	20.92	20.90	-	0.0232	0.0233	0.0232
1.4	64QAM	6	0	-	19.96	20.10	20.08	-	0.0187	0.0193	0.0192



LTE Band 66_ANT2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.51	23.70	23.67	0.4909	0.5129	0.5093
20	QPSK	1	49	23.56	23.49	23.61	0.4966	0.4887	0.5023
20	QPSK	1	99	23.41	23.50	23.48	0.4797	0.4898	0.4875
20	QPSK	50	0	22.66	22.70	22.59	0.4036	0.4074	0.3972
20	QPSK	50	24	22.51	22.61	22.61	0.3899	0.3990	0.3990
20	QPSK	50	50	22.50	22.61	22.43	0.3890	0.3990	0.3828
20	QPSK	100	0	22.53	22.59	22.56	0.3917	0.3972	0.3945
20	16QAM	1	0	22.68	22.76	22.70	0.4055	0.4130	0.4074
20	16QAM	1	49	22.69	22.79	22.65	0.4064	0.4159	0.4027
20	16QAM	1	99	22.57	22.70	22.56	0.3954	0.4074	0.3945
20	16QAM	50	0	21.60	21.74	21.64	0.3162	0.3266	0.3192
20	16QAM	50	24	21.50	21.59	21.55	0.3090	0.3155	0.3126
20	16QAM	50	50	21.60	21.68	21.61	0.3162	0.3221	0.3170
20	16QAM	100	0	21.50	21.57	21.49	0.3090	0.3141	0.3083
20	64QAM	1	0	21.43	21.60	21.68	0.3041	0.3162	0.3221
20	64QAM	1	49	21.57	21.61	21.65	0.3141	0.3170	0.3199
20	64QAM	1	99	21.43	21.65	21.55	0.3041	0.3199	0.3126
20	64QAM	50	0	20.45	20.79	20.58	0.2427	0.2624	0.2500
20	64QAM	50	24	20.63	20.76	20.59	0.2529	0.2606	0.2506
20	64QAM	50	50	20.41	20.76	20.57	0.2404	0.2606	0.2495
20	64QAM	100	0	20.47	20.79	20.64	0.2438	0.2624	0.2535
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.42	23.55	23.61	0.4808	0.4955	0.5023
15	QPSK	1	37	23.52	23.40	23.54	0.4920	0.4786	0.4943
15	QPSK	1	74	23.27	23.38	23.39	0.4645	0.4764	0.4775
15	QPSK	36	0	22.51	22.57	22.44	0.3899	0.3954	0.3837
15	QPSK	36	20	22.47	22.49	22.51	0.3864	0.3882	0.3899
15	QPSK	36	39	22.35	22.57	22.30	0.3758	0.3954	0.3715
15	QPSK	75	0	22.39	22.52	22.51	0.3793	0.3908	0.3899
15	16QAM	1	0	22.59	22.69	22.65	0.3972	0.4064	0.4027
15	16QAM	1	37	22.61	22.72	22.57	0.3990	0.4093	0.3954
15	16QAM	1	74	22.46	22.65	22.52	0.3855	0.4027	0.3908
15	16QAM	36	0	21.54	21.70	21.53	0.3119	0.3236	0.3112
15	16QAM	36	20	21.45	21.46	21.49	0.3055	0.3062	0.3083
15	16QAM	36	39	21.51	21.64	21.50	0.3097	0.3192	0.3090
15	16QAM	75	0	21.42	21.48	21.45	0.3034	0.3076	0.3055
15	64QAM	1	0	21.46	21.80	21.75	0.3062	0.3311	0.3273
15	64QAM	1	37	21.55	21.61	21.70	0.3126	0.3170	0.3236
15	64QAM	1	74	21.44	21.60	21.67	0.3048	0.3162	0.3214
15	64QAM	36	0	20.59	20.63	20.78	0.2506	0.2529	0.2618



15	64QAM	36	20	20.42	20.66	20.58	0.2410	0.2547	0.2500
15	64QAM	36	39	20.59	20.73	20.59	0.2506	0.2588	0.2506
15	64QAM	75	0	20.53	20.68	20.77	0.2472	0.2559	0.2612
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.37	23.59	23.57	0.4753	0.5000	0.4977
10	QPSK	1	25	23.43	23.45	23.51	0.4819	0.4842	0.4909
10	QPSK	1	49	23.31	23.38	23.44	0.4688	0.4764	0.4831
10	QPSK	25	0	22.60	22.60	22.50	0.3981	0.3981	0.3890
10	QPSK	25	12	22.38	22.56	22.50	0.3784	0.3945	0.3890
10	QPSK	25	25	22.36	22.57	22.33	0.3767	0.3954	0.3741
10	QPSK	50	0	22.46	22.48	22.46	0.3855	0.3873	0.3855
10	16QAM	1	0	22.62	22.70	22.63	0.3999	0.4074	0.4009
10	16QAM	1	25	22.56	22.71	22.55	0.3945	0.4083	0.3936
10	16QAM	1	49	22.43	22.57	22.47	0.3828	0.3954	0.3864
10	16QAM	25	0	21.55	21.62	21.52	0.3126	0.3177	0.3105
10	16QAM	25	12	21.40	21.51	21.41	0.3020	0.3097	0.3027
10	16QAM	25	25	21.53	21.54	21.56	0.3112	0.3119	0.3133
10	16QAM	50	0	21.42	21.46	21.35	0.3034	0.3062	0.2985
10	64QAM	1	0	21.61	21.63	21.61	0.3170	0.3184	0.3170
10	64QAM	1	25	21.52	21.62	21.61	0.3105	0.3177	0.3170
10	64QAM	1	49	21.58	21.75	21.74	0.3148	0.3273	0.3266
10	64QAM	25	0	20.51	20.71	20.66	0.2460	0.2576	0.2547
10	64QAM	25	12	20.45	20.79	20.65	0.2427	0.2624	0.2541
10	64QAM	25	25	20.43	20.77	20.66	0.2415	0.2612	0.2547
10	64QAM	50	0	20.62	20.71	20.69	0.2523	0.2576	0.2564
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.42	23.66	23.54	0.4808	0.5082	0.4943
5	QPSK	1	12	23.48	23.43	23.54	0.4875	0.4819	0.4943
5	QPSK	1	24	23.34	23.41	23.35	0.4721	0.4797	0.4732
5	QPSK	12	0	22.54	22.62	22.46	0.3926	0.3999	0.3855
5	QPSK	12	7	22.37	22.47	22.57	0.3776	0.3864	0.3954
5	QPSK	12	13	22.45	22.57	22.33	0.3846	0.3954	0.3741
5	QPSK	25	0	22.38	22.49	22.50	0.3784	0.3882	0.3890
5	16QAM	1	0	22.57	22.66	22.59	0.3954	0.4036	0.3972
5	16QAM	1	12	22.60	22.69	22.56	0.3981	0.4064	0.3945
5	16QAM	1	24	22.46	22.64	22.44	0.3855	0.4018	0.3837
5	16QAM	12	0	21.52	21.69	21.61	0.3105	0.3228	0.3170
5	16QAM	12	7	21.38	21.51	21.43	0.3006	0.3097	0.3041
5	16QAM	12	13	21.52	21.55	21.51	0.3105	0.3126	0.3097
5	16QAM	25	0	21.44	21.45	21.45	0.3048	0.3055	0.3055
5	64QAM	1	0	21.59	21.72	21.57	0.3155	0.3251	0.3141
5	64QAM	1	12	21.51	21.63	21.78	0.3097	0.3184	0.3296
5	64QAM	1	24	21.41	21.66	21.77	0.3027	0.3206	0.3289
5	64QAM	12	0	20.50	20.65	20.56	0.2455	0.2541	0.2489
5	64QAM	12	7	20.48	20.67	20.56	0.2443	0.2553	0.2489



5	64QAM	12	13	20.58	20.76	20.72	0.2500	0.2606	0.2582
5	64QAM	25	0	20.46	20.79	20.58	0.2432	0.2624	0.2500
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.48	23.66	23.55	0.4875	0.5082	0.4955
3	QPSK	1	8	23.48	23.41	23.50	0.4875	0.4797	0.4898
3	QPSK	1	14	23.29	23.43	23.37	0.4667	0.4819	0.4753
3	QPSK	8	0	22.56	22.56	22.45	0.3945	0.3945	0.3846
3	QPSK	8	4	22.47	22.58	22.55	0.3864	0.3963	0.3936
3	QPSK	8	7	22.44	22.52	22.28	0.3837	0.3908	0.3698
3	QPSK	15	0	22.42	22.55	22.43	0.3819	0.3936	0.3828
3	16QAM	1	0	22.61	22.62	22.62	0.3990	0.3999	0.3999
3	16QAM	1	8	22.65	22.69	22.57	0.4027	0.4064	0.3954
3	16QAM	1	14	22.53	22.59	22.41	0.3917	0.3972	0.3811
3	16QAM	8	0	21.56	21.62	21.55	0.3133	0.3177	0.3126
3	16QAM	8	4	21.44	21.49	21.41	0.3048	0.3083	0.3027
3	16QAM	8	7	21.50	21.61	21.52	0.3090	0.3170	0.3105
3	16QAM	15	0	21.38	21.49	21.41	0.3006	0.3083	0.3027
3	64QAM	1	0	21.52	21.66	21.56	0.3105	0.3206	0.3133
3	64QAM	1	8	21.39	21.78	21.60	0.3013	0.3296	0.3162
3	64QAM	1	14	21.58	21.80	21.60	0.3148	0.3311	0.3162
3	64QAM	8	0	20.48	20.63	20.72	0.2443	0.2529	0.2582
3	64QAM	8	4	20.50	20.71	20.72	0.2455	0.2576	0.2582
3	64QAM	8	7	20.48	20.68	20.57	0.2443	0.2559	0.2495
3	64QAM	15	0	20.57	20.61	20.65	0.2495	0.2518	0.2541
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.41	23.58	23.55	0.4797	0.4989	0.4955
1.4	QPSK	1	3	23.44	23.38	23.56	0.4831	0.4764	0.4966
1.4	QPSK	1	5	23.29	23.41	23.42	0.4667	0.4797	0.4808
1.4	QPSK	3	0	23.42	23.56	23.54	0.4808	0.4966	0.4943
1.4	QPSK	3	1	23.43	23.46	23.54	0.4819	0.4853	0.4943
1.4	QPSK	3	3	23.37	23.36	23.37	0.4753	0.4742	0.4753
1.4	QPSK	6	0	22.55	22.63	22.45	0.3936	0.4009	0.3846
1.4	16QAM	1	0	22.40	22.56	22.48	0.3802	0.3945	0.3873
1.4	16QAM	1	3	22.41	22.58	22.38	0.3811	0.3963	0.3784
1.4	16QAM	1	5	22.48	22.54	22.44	0.3873	0.3926	0.3837
1.4	16QAM	3	0	22.55	22.62	22.57	0.3936	0.3999	0.3954
1.4	16QAM	3	1	22.61	22.75	22.60	0.3990	0.4121	0.3981
1.4	16QAM	3	3	22.50	22.58	22.49	0.3890	0.3963	0.3882
1.4	16QAM	6	0	21.55	21.65	21.53	0.3126	0.3199	0.3112
1.4	64QAM	1	0	21.51	21.59	21.72	0.3097	0.3155	0.3251
1.4	64QAM	1	3	21.62	21.72	21.75	0.3177	0.3251	0.3273
1.4	64QAM	1	5	21.59	21.63	21.69	0.3155	0.3184	0.3228
1.4	64QAM	3	0	21.49	21.60	21.75	0.3083	0.3162	0.3273
1.4	64QAM	3	1	21.49	21.79	21.70	0.3083	0.3304	0.3236
1.4	64QAM	3	3	21.43	21.63	21.60	0.3041	0.3184	0.3162



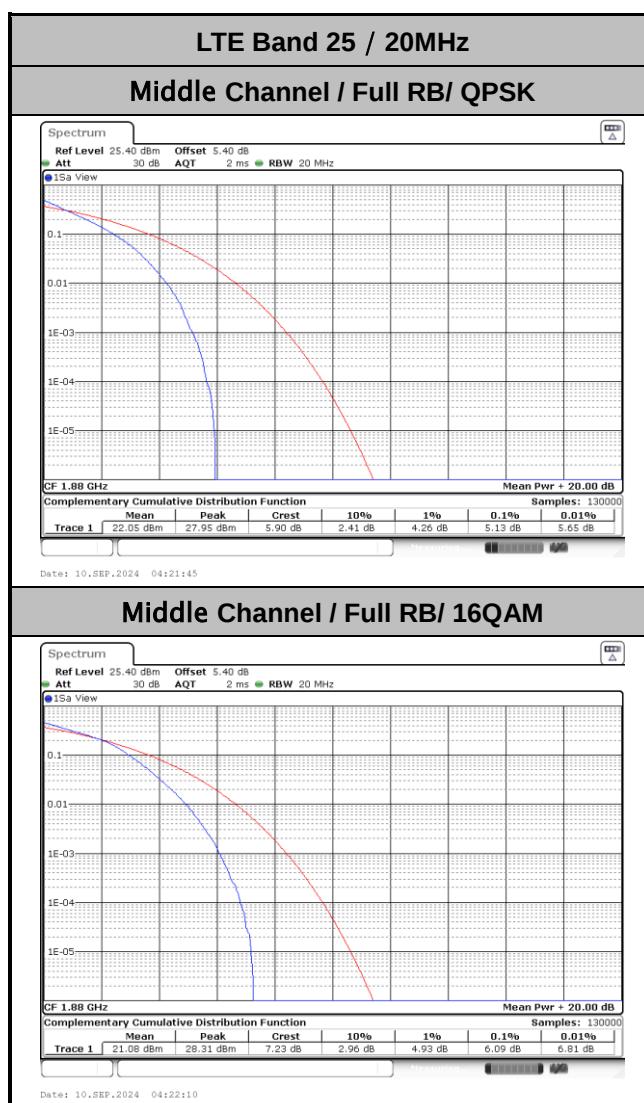
1.4	64QAM	6	0	20.60	20.68	20.67	0.2512	0.2559	0.2553
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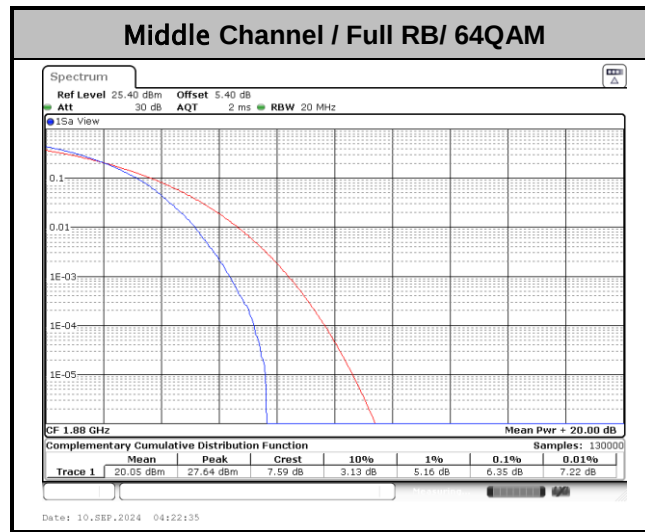


LTE Band 25(Main PA)

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM		Limit: 13dB
RB Size	Full RB	Full RB	Full RB		Result
Middle CH	5.13	6.09	6.35		PASS





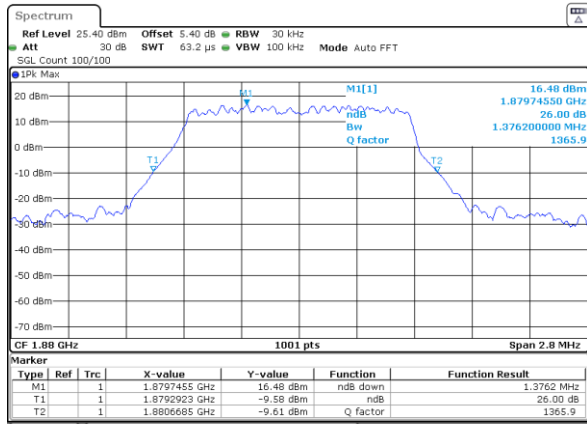
**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.38	1.37
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.06	3.09
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.10	4.91
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.77
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.51	14.75
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.94	18.94



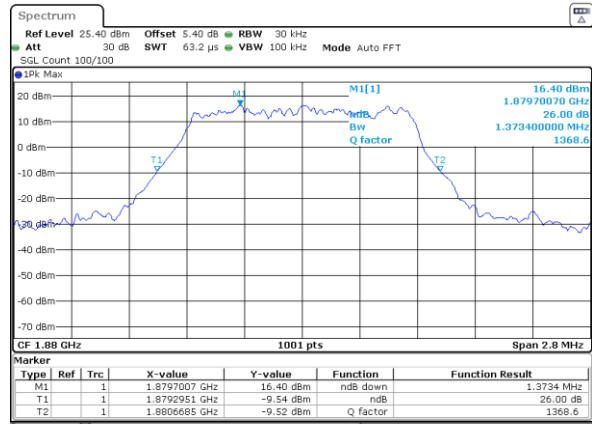
LTE Band 25

Middle Channel / 1.4MHz / QPSK



Date: 10_SEP_2024 04:30:08

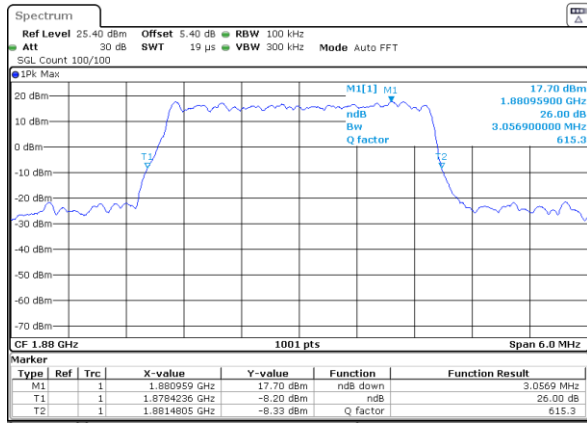
Middle Channel / 1.4MHz / 16QAM



Date: 10_SEP_2024 04:30:30

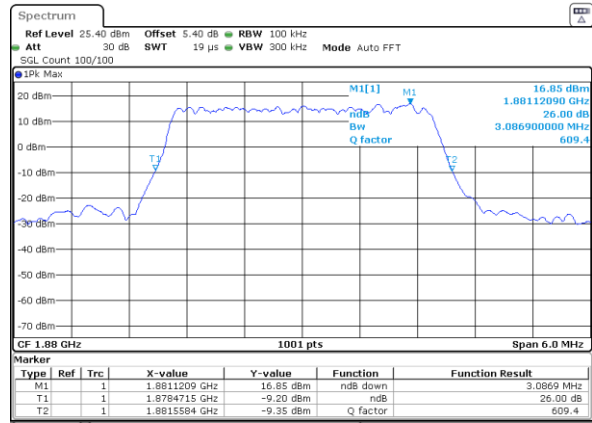
LTE Band 25

Middle Channel / 3MHz / QPSK



Date: 10_SEP_2024 04:27:45

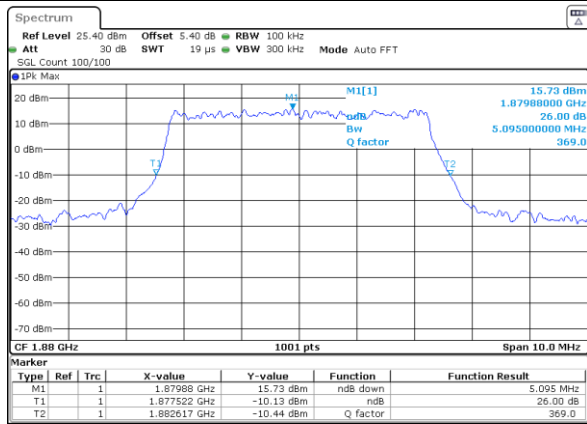
Middle Channel / 3MHz / 16QAM



Date: 10_SEP_2024 04:28:07

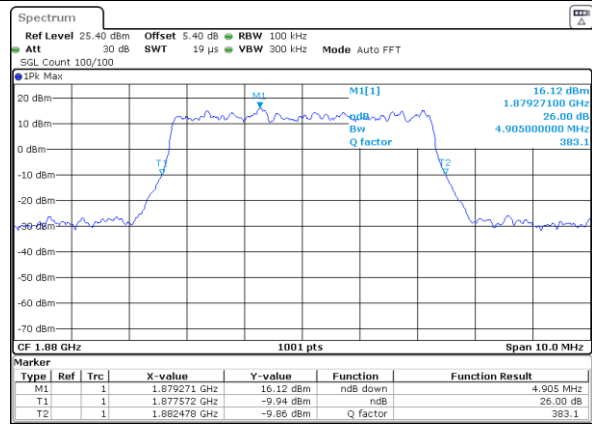
LTE Band 25

Middle Channel / 5MHz / QPSK



Date: 10_SEP_2024 04:26:17

Middle Channel / 5MHz / 16QAM

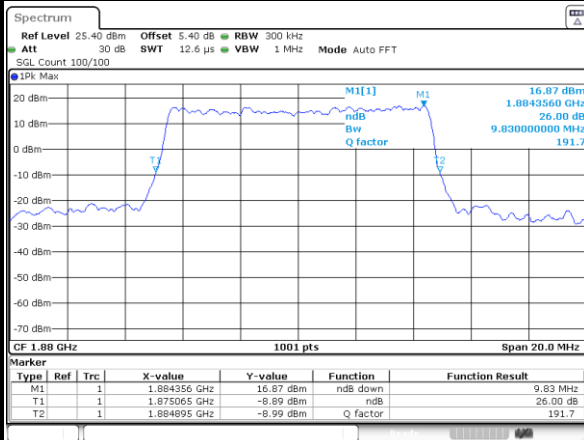


Date: 10_SEP_2024 04:26:39



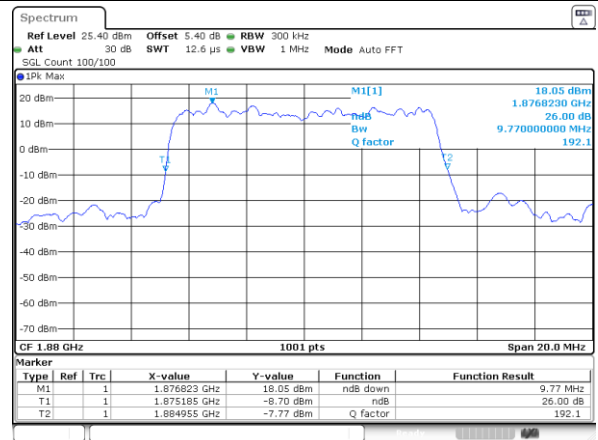
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 10_SEP.2024 04:24:49

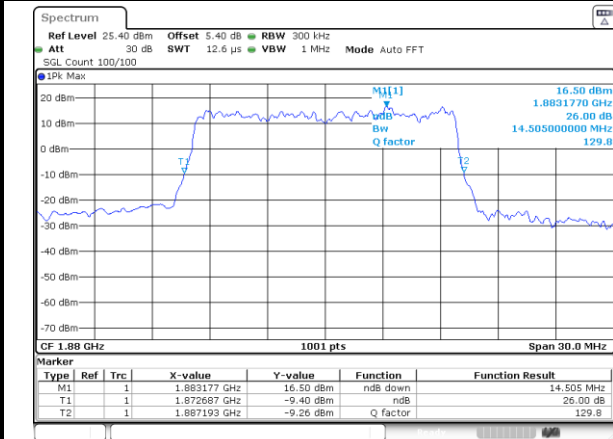
Middle Channel / 10MHz / 16QAM



Date: 10_SEP.2024 04:25:11

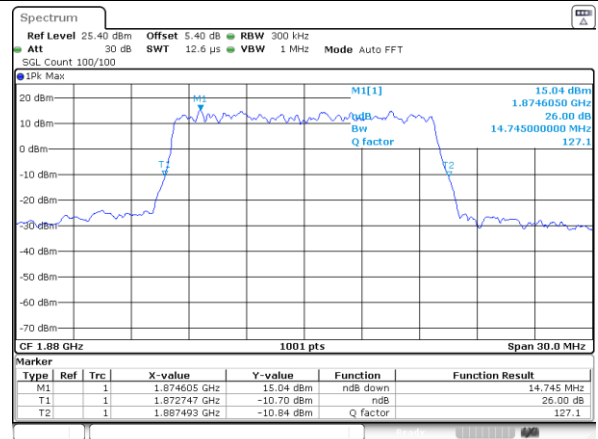
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 10_SEP.2024 04:23:21

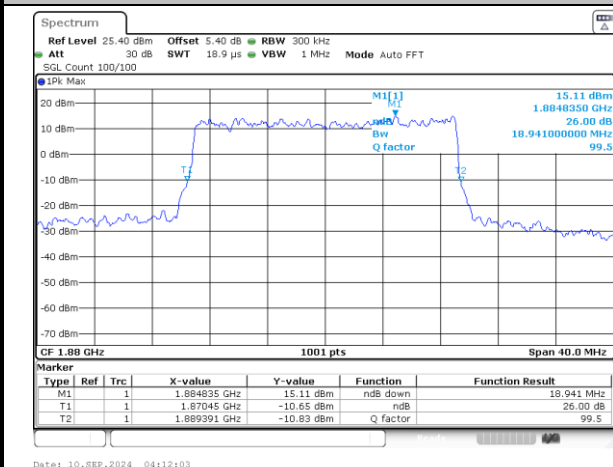
Middle Channel / 15MHz / 16QAM



Date: 10_SEP.2024 04:23:43

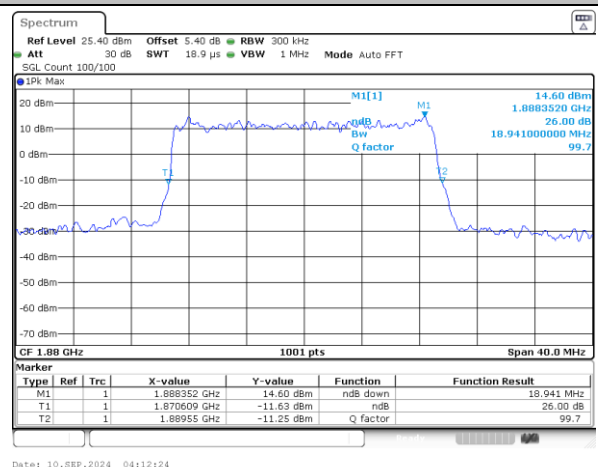
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 10_SEP.2024 04:12:03

Middle Channel / 20MHz / 16QAM

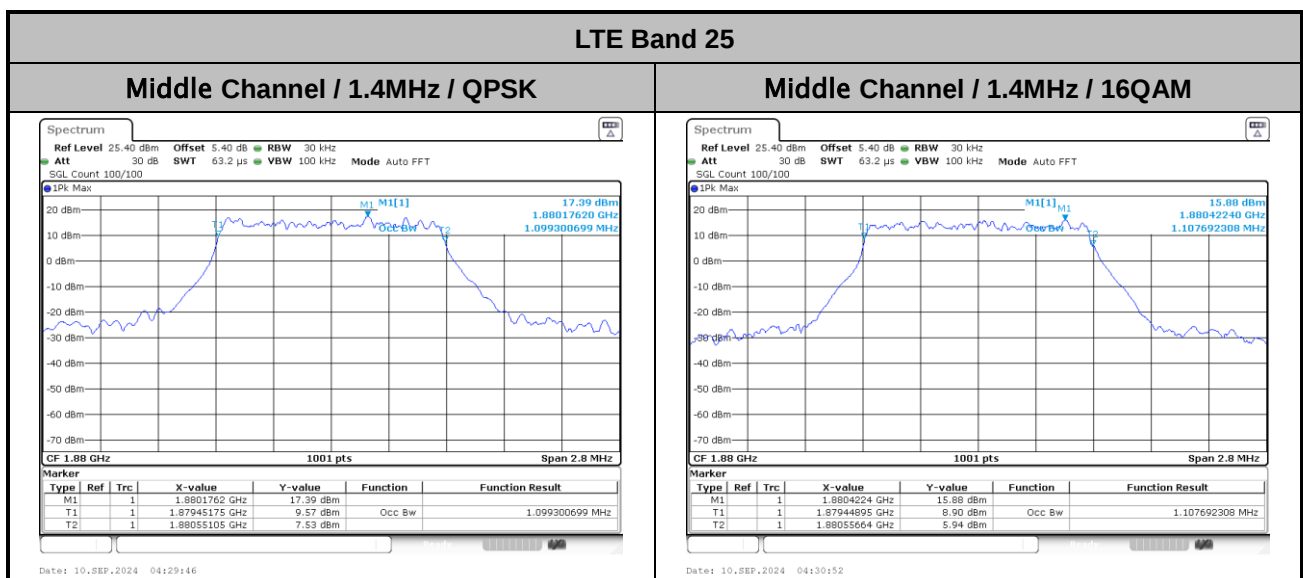


Date: 10_SEP.2024 04:12:24



Occupied Bandwidth

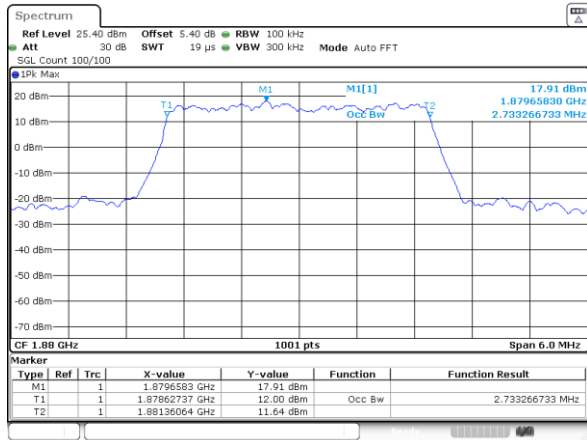
Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.11
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.51	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.01
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.94



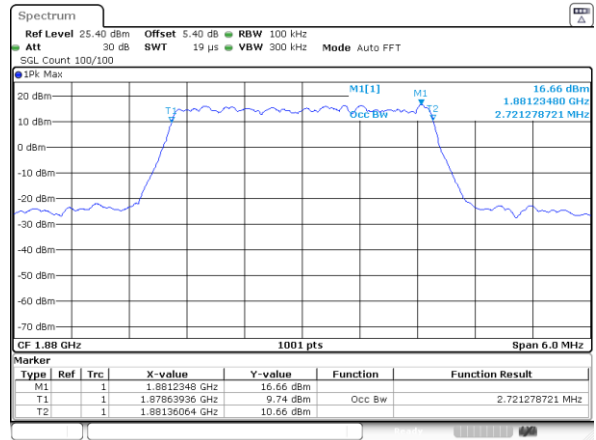


LTE Band 25

Middle Channel / 3MHz / QPSK

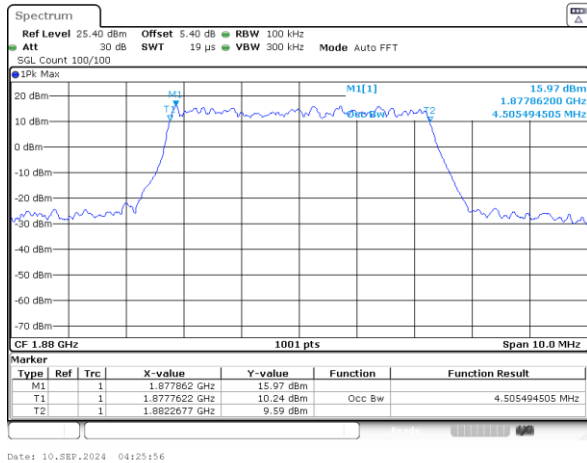


Middle Channel / 3MHz / 16QAM

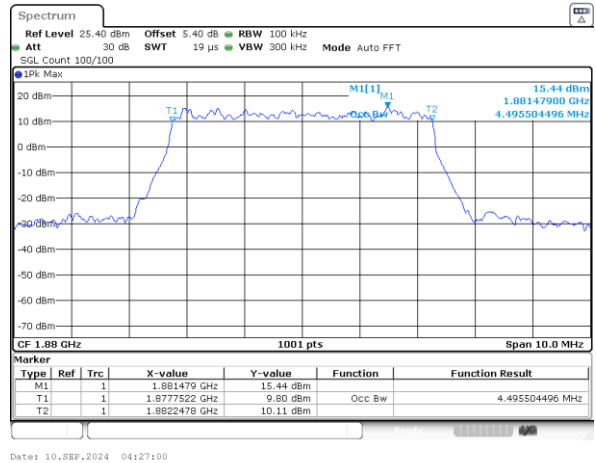


LTE Band 25

Middle Channel / 5MHz / QPSK

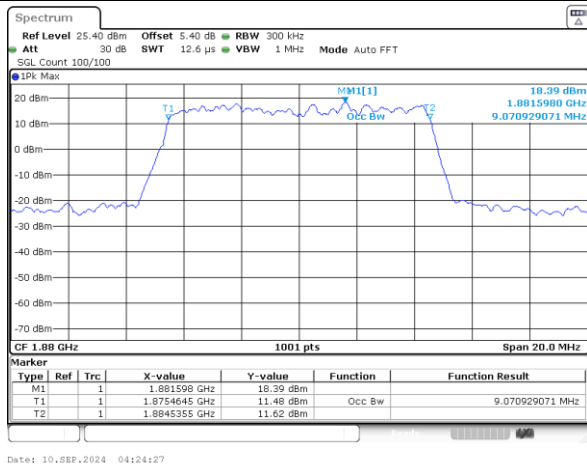


Middle Channel / 5MHz / 16QAM

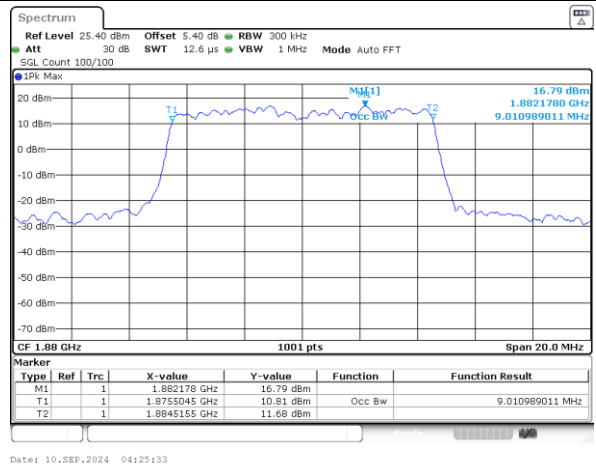


LTE Band 25

Middle Channel / 10MHz / QPSK



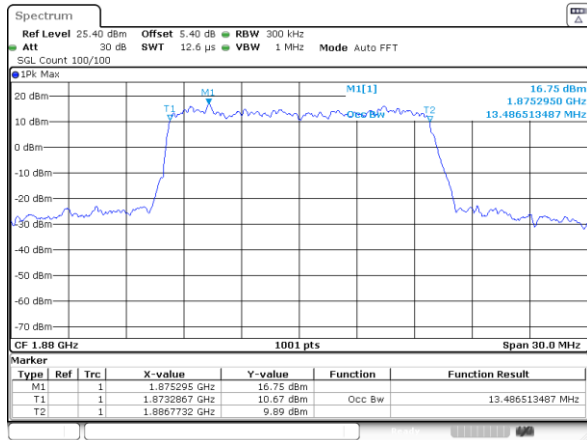
Middle Channel / 10MHz / 16QAM



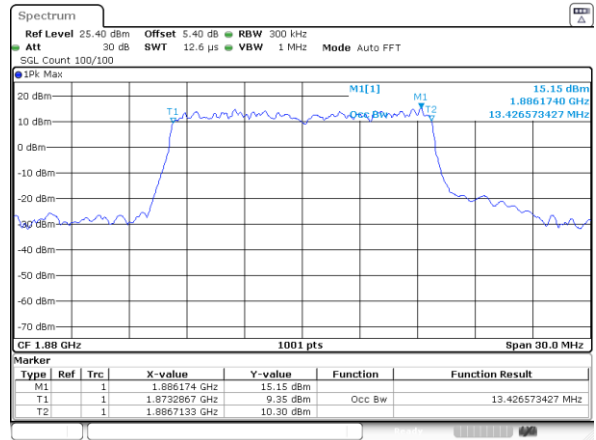


LTE Band 25

Middle Channel / 15MHz / QPSK

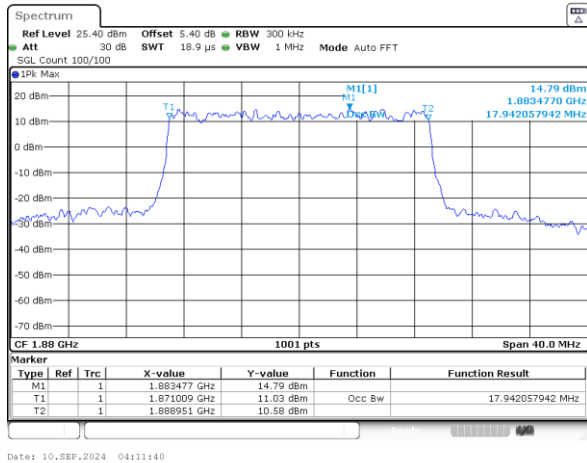


Middle Channel / 15MHz / 16QAM

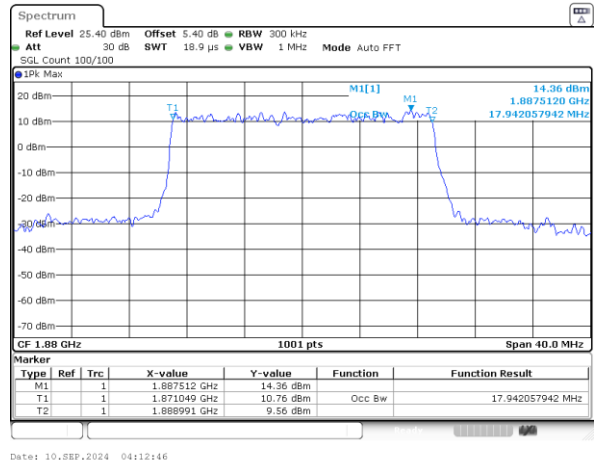


LTE Band 25

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

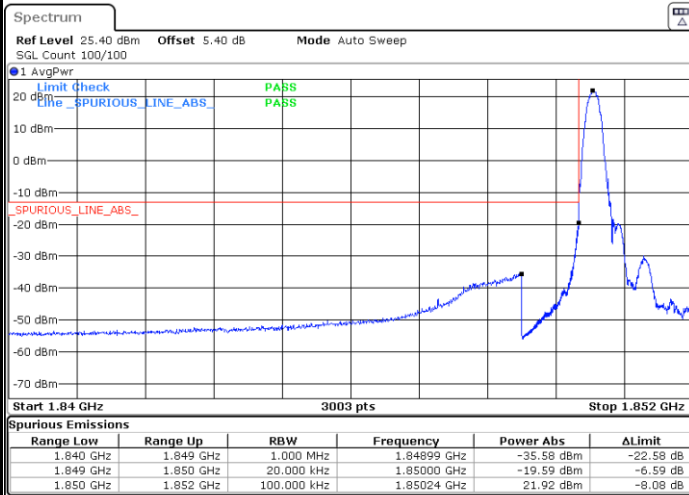




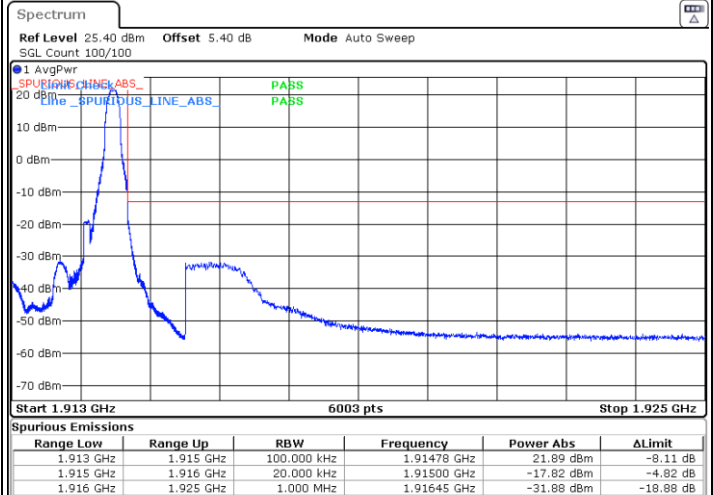
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

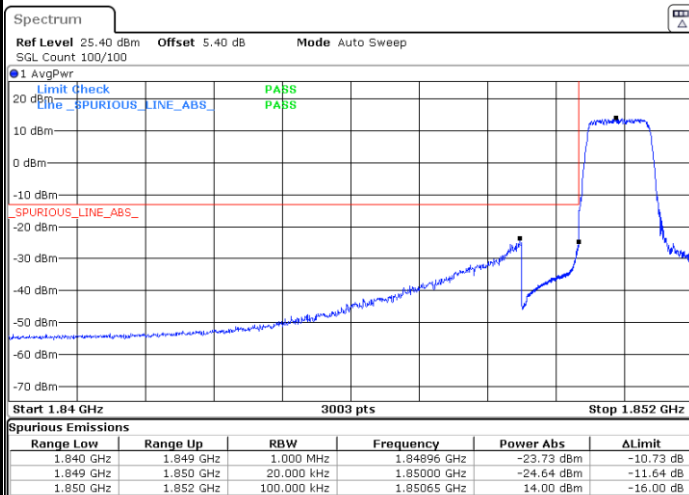
Lowest Band Edge / 1RB



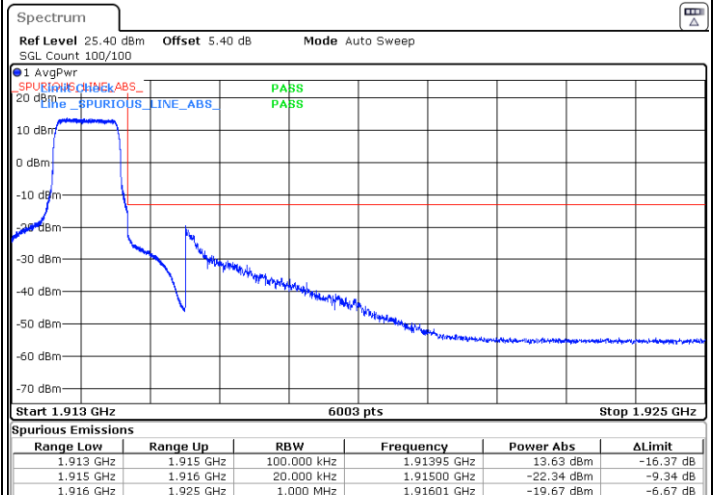
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



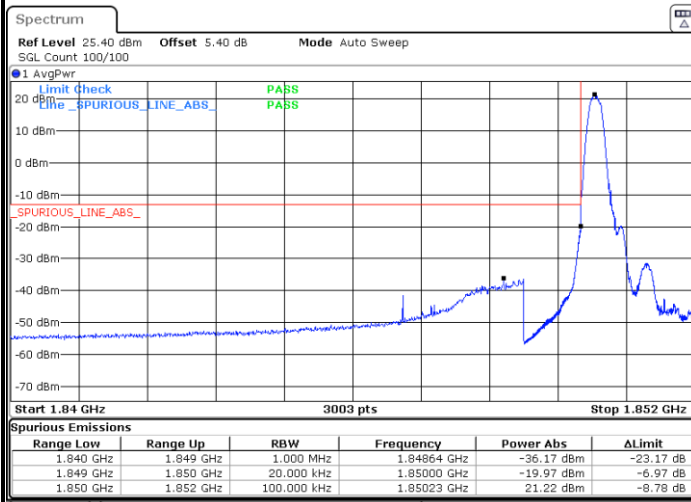
Highest Band Edge / Full RB



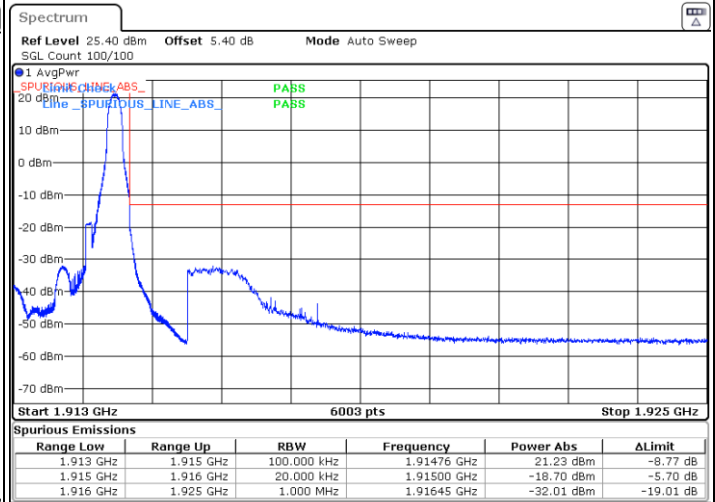


LTE Band 25 / 1.4MHz / 16QAM

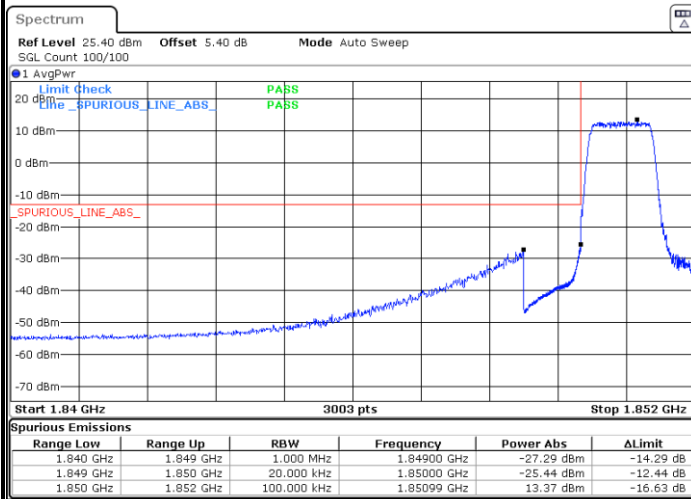
Lowest Band Edge / 1 RB



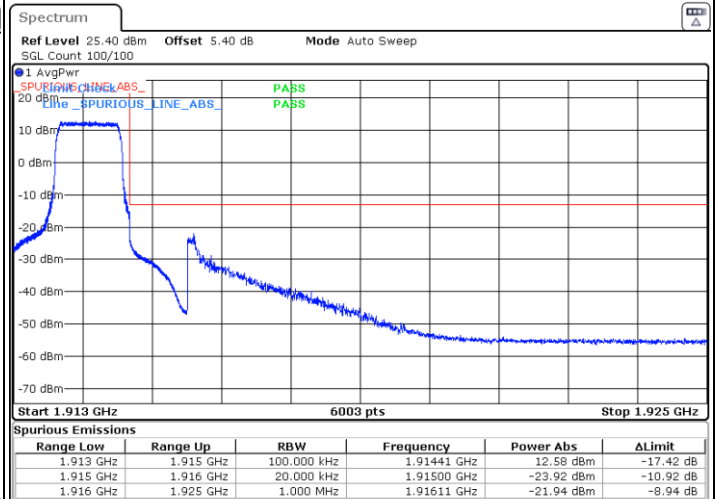
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



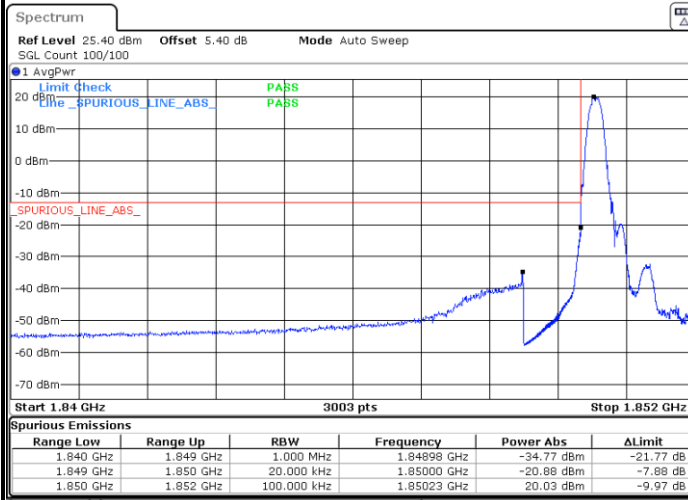
Highest Band Edge / Full RB



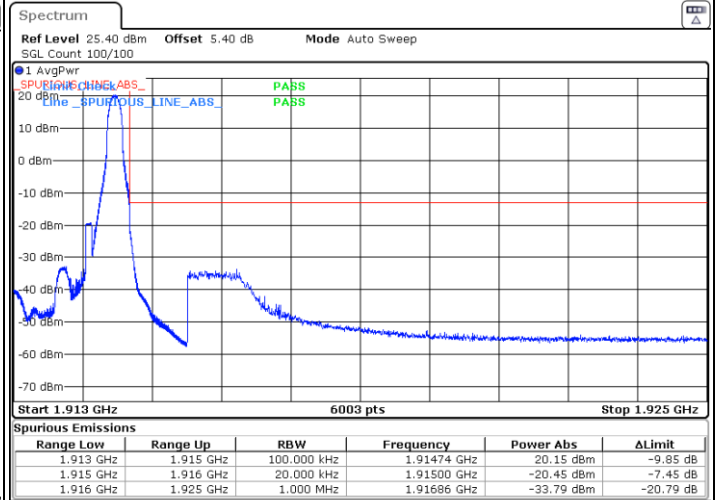


LTE Band 25 / 1.4MHz / 64QAM

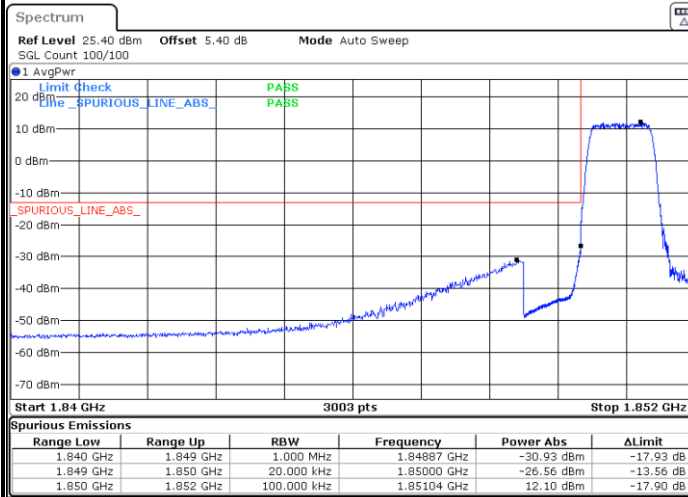
Lowest Band Edge / 1 RB



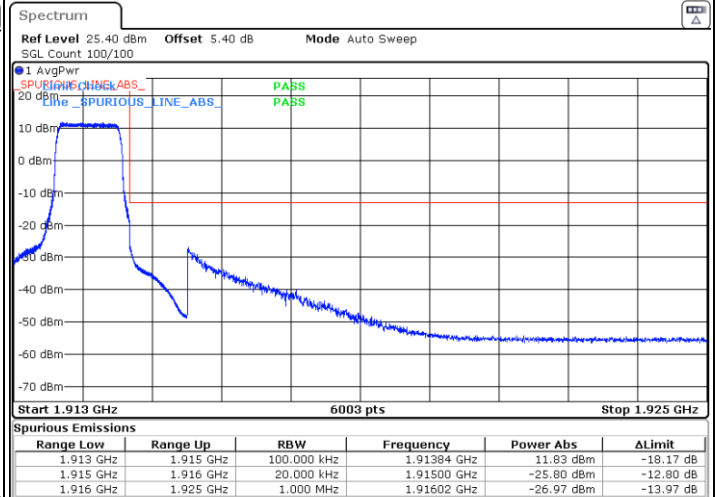
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



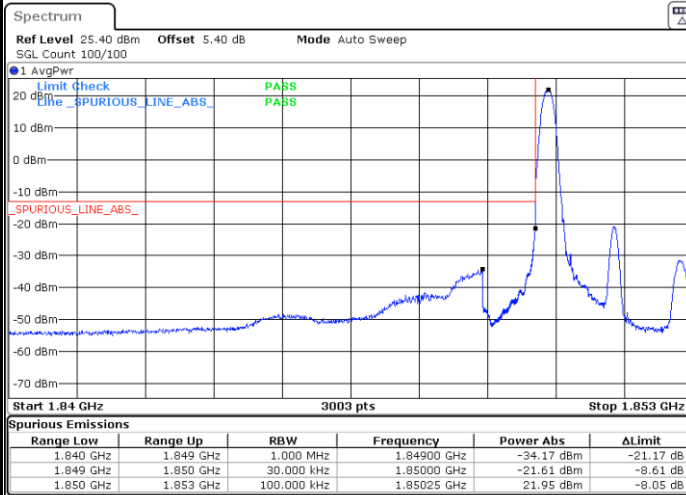
Highest Band Edge / Full RB



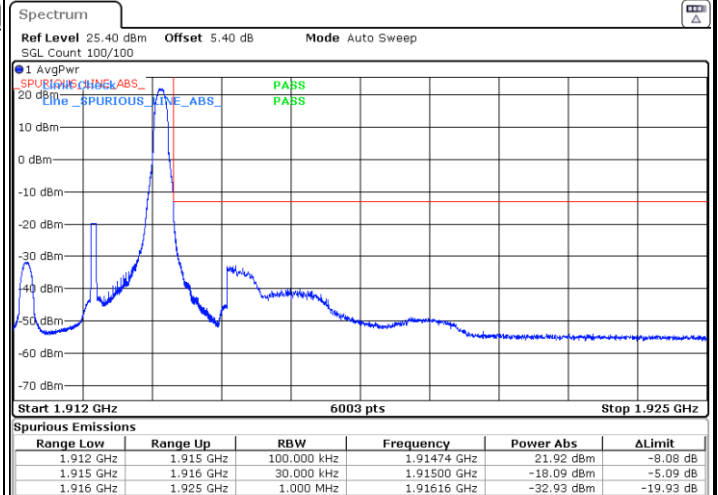


LTE Band 25 / 3MHz / QPSK

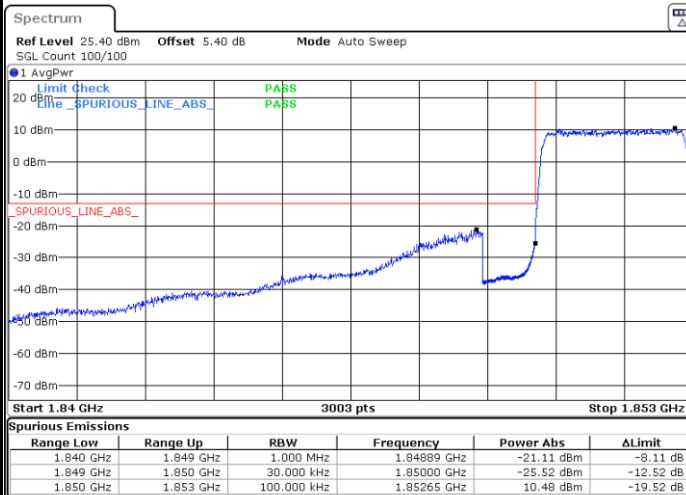
Lowest Band Edge / 1RB



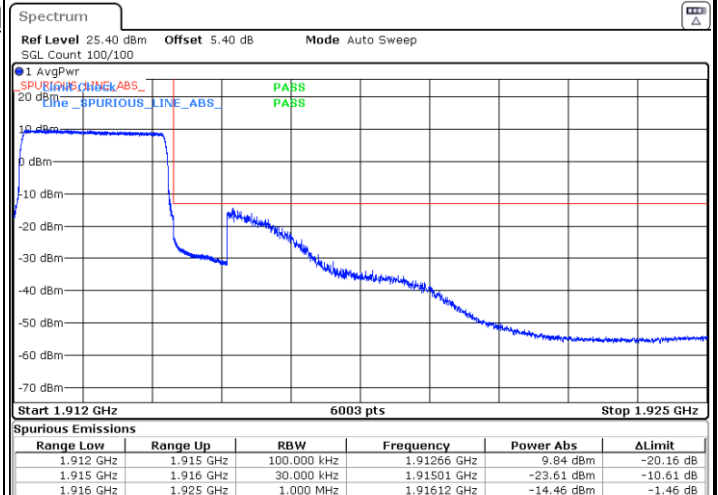
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



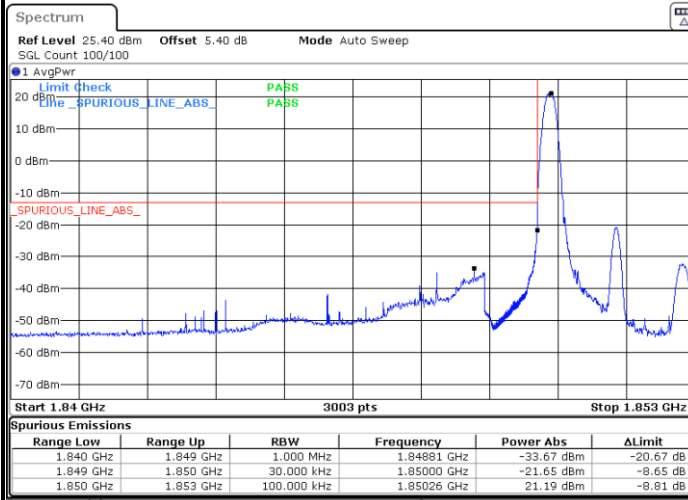
Highest Band Edge / Full RB



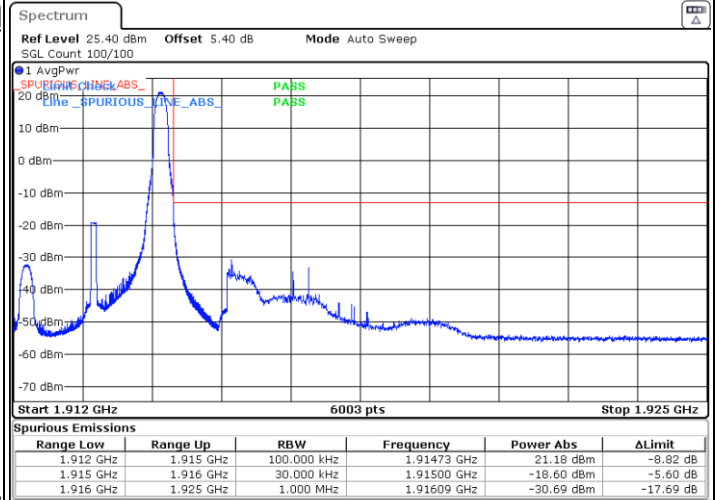


LTE Band 25 / 3MHz / 16QAM

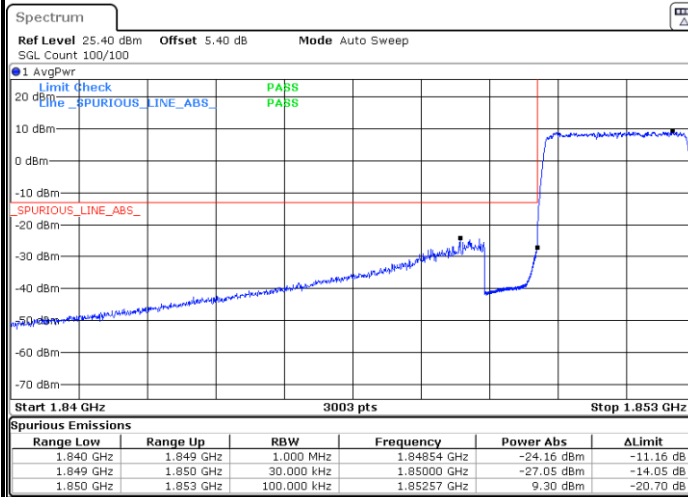
Lowest Band Edge / 1 RB



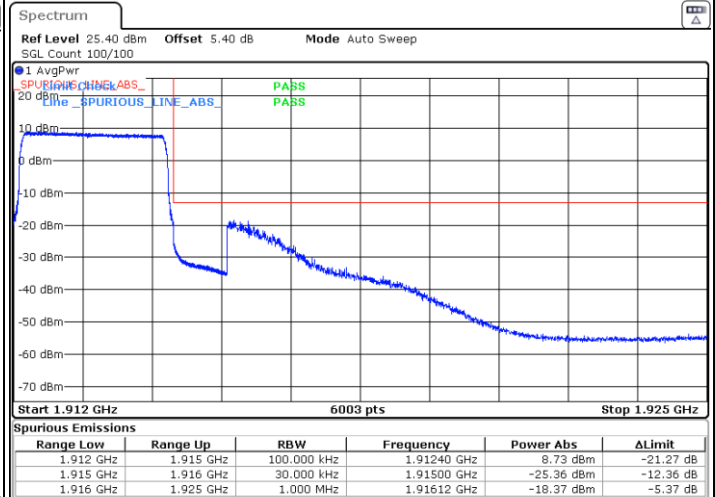
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



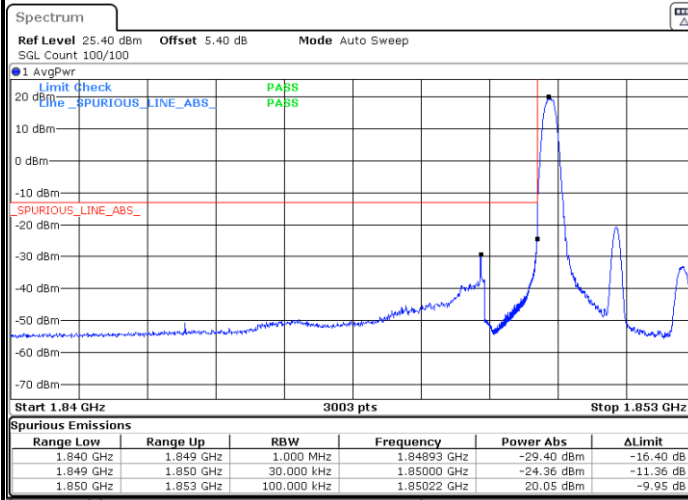
Highest Band Edge / Full RB



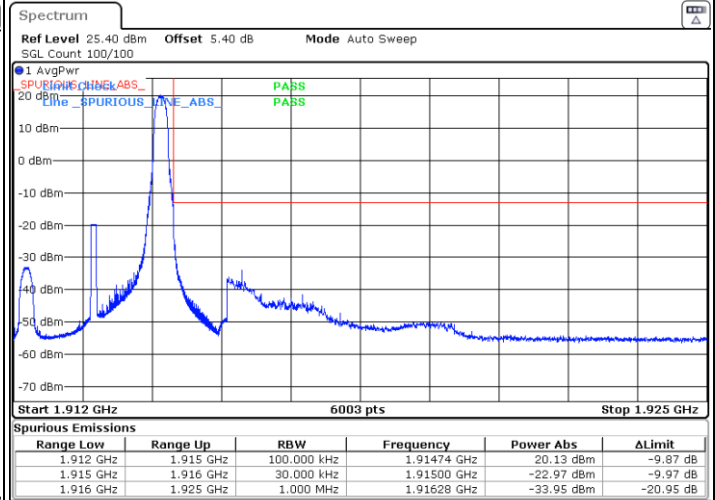


LTE Band 25 / 3MHz / 64QAM

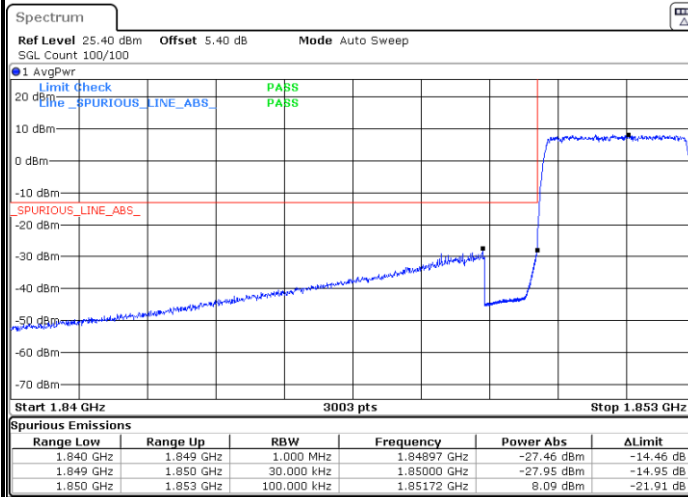
Lowest Band Edge / 1 RB



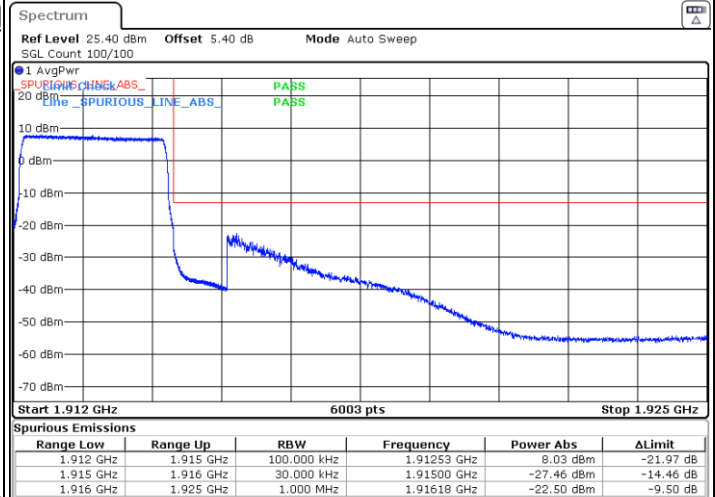
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



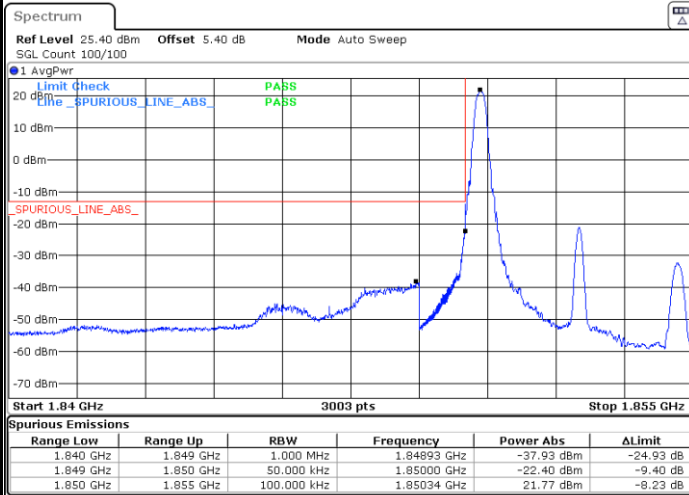
Highest Band Edge / Full RB



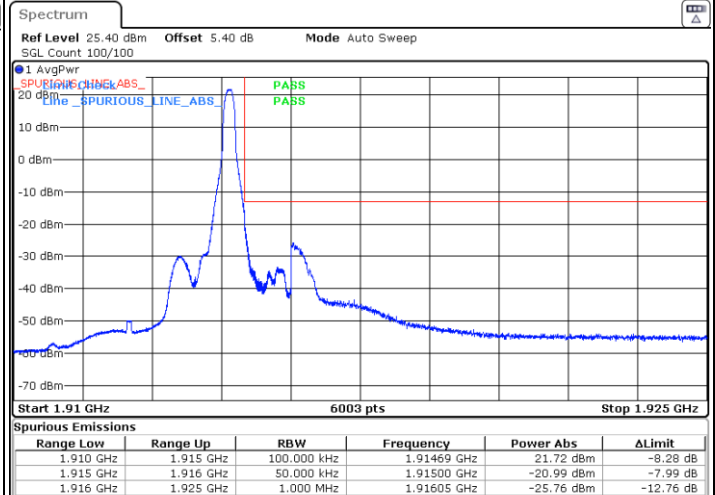


LTE Band 25 / 5MHz / QPSK

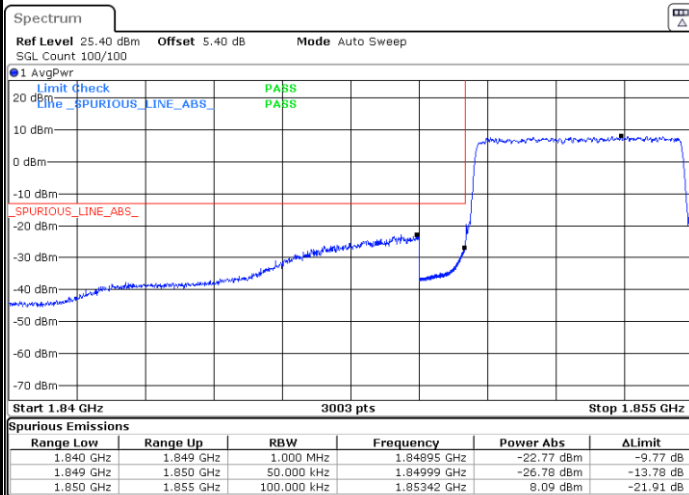
Lowest Band Edge / 1 RB



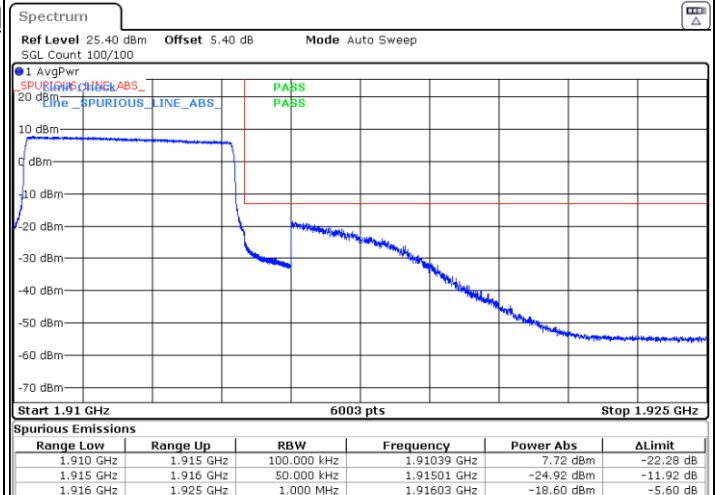
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



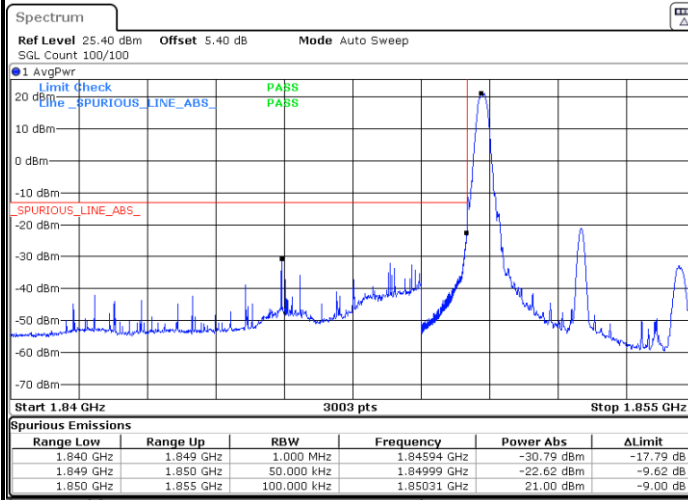
Highest Band Edge / Full RB



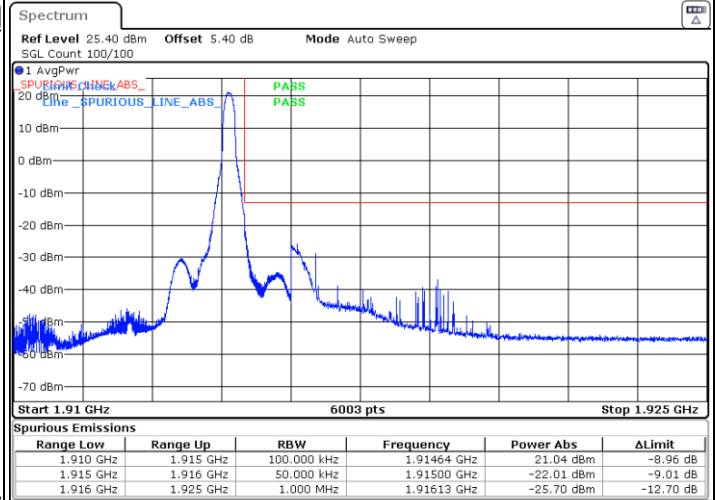


LTE Band 25 / 5MHz / 16QAM

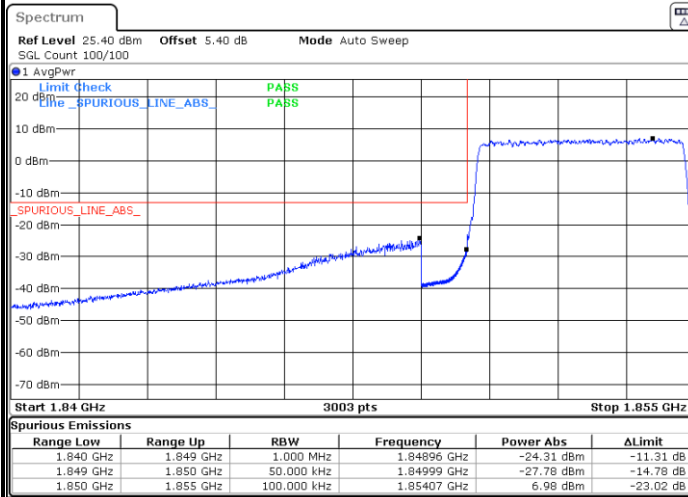
Lowest Band Edge / 1RB



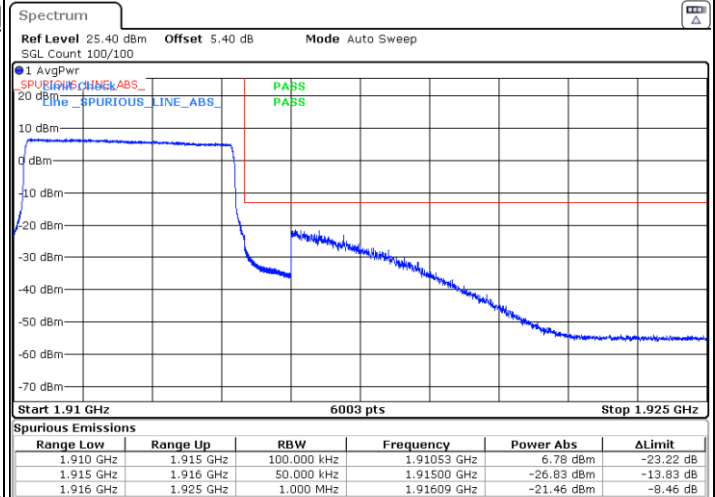
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



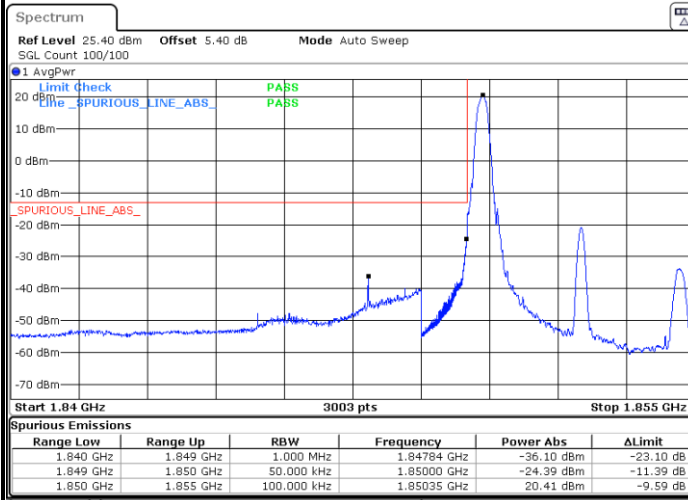
Highest Band Edge / Full RB



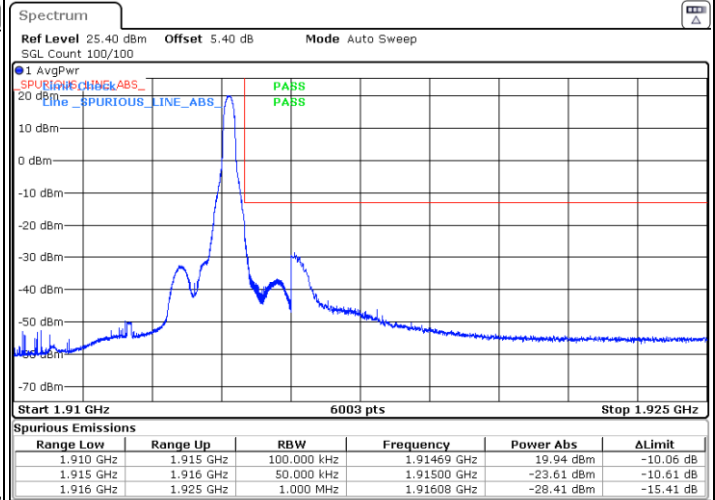


LTE Band 25 / 5MHz / 64QAM

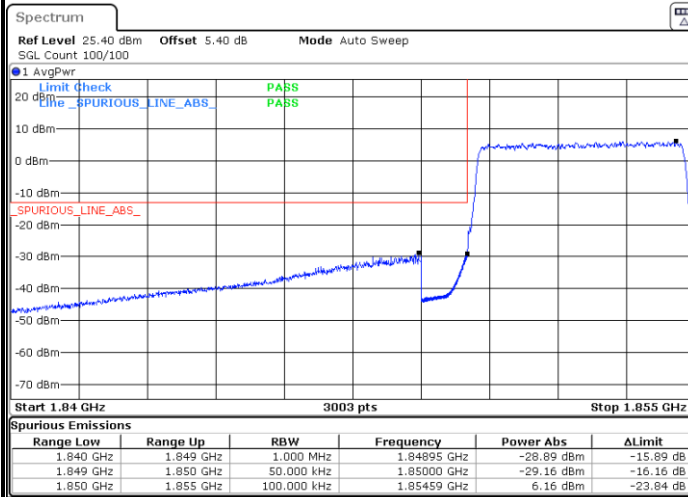
Lowest Band Edge / 1RB



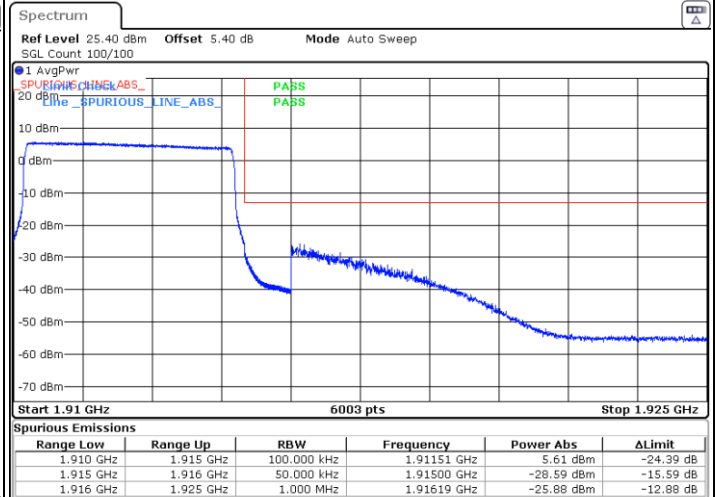
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



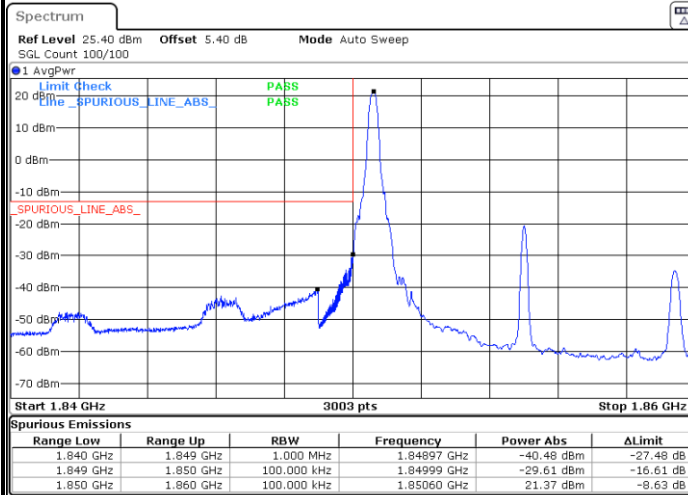
Highest Band Edge / Full RB



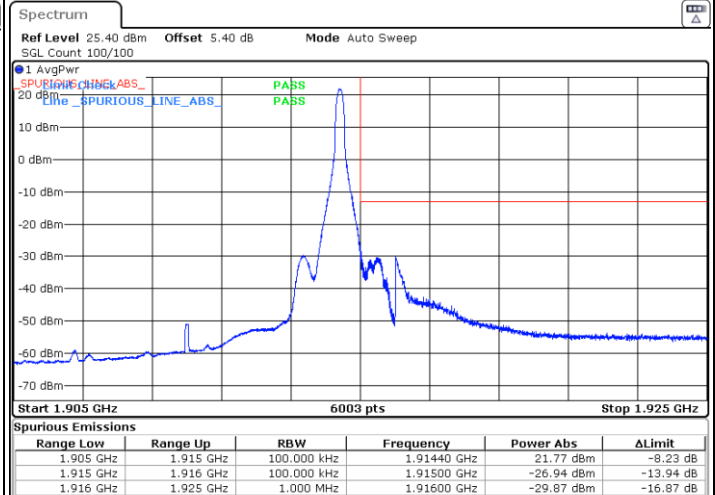


LTE Band 25 / 10MHz / QPSK

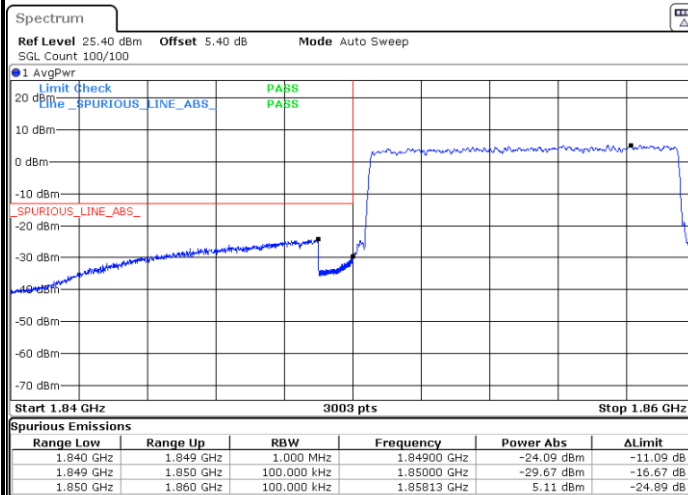
Lowest Band Edge / 1 RB



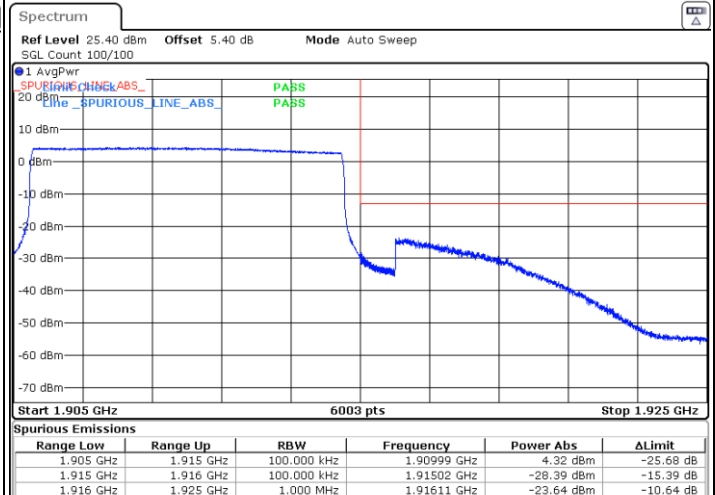
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



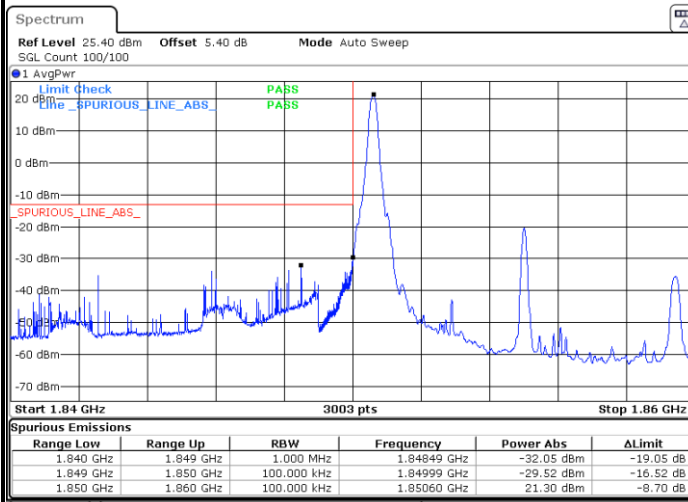
Highest Band Edge / Full RB



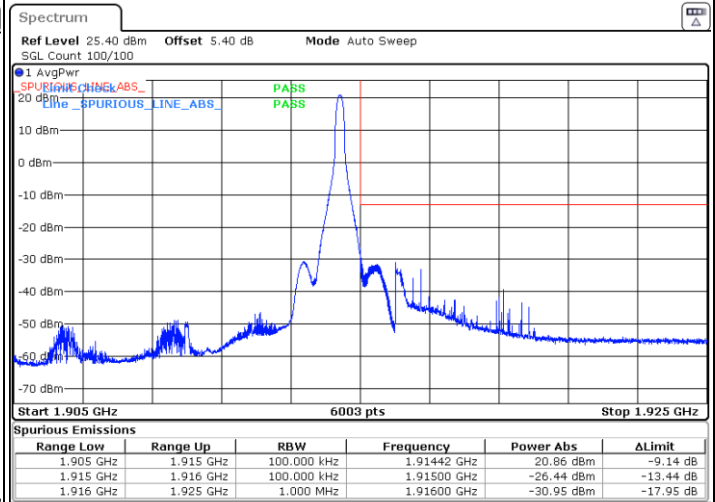


LTE Band 25 / 10MHz / 16QAM

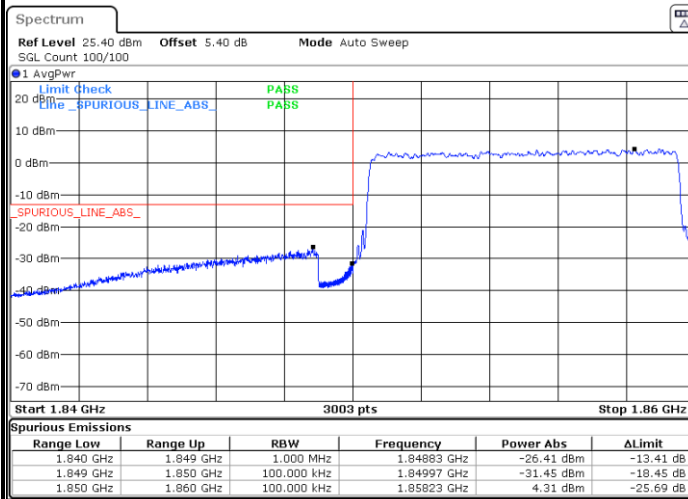
Lowest Band Edge / 1 RB



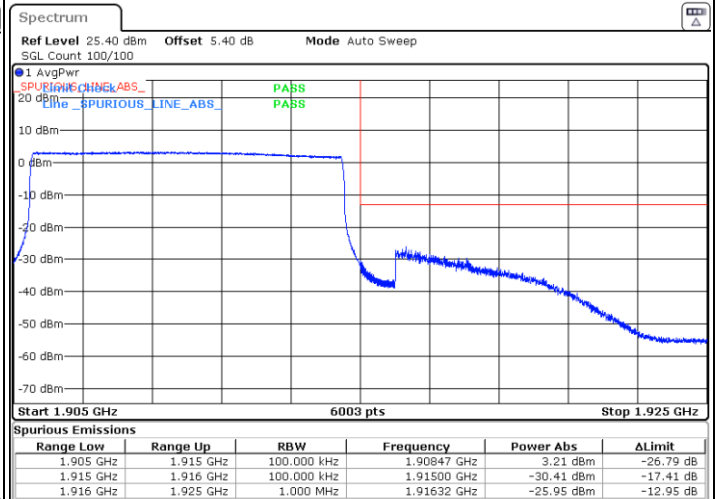
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



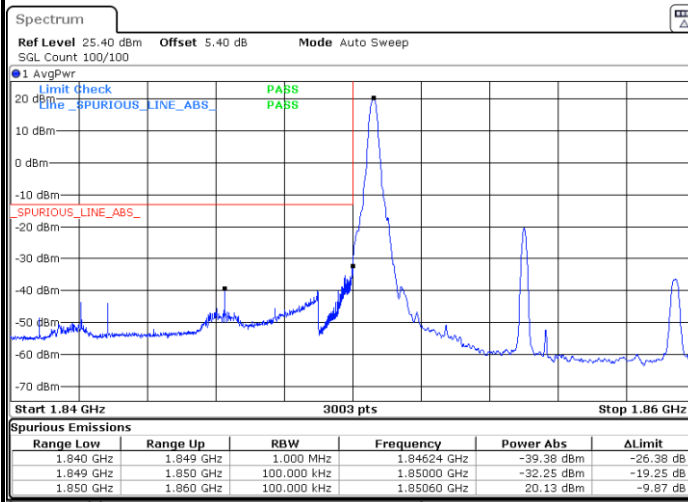
Highest Band Edge / Full RB



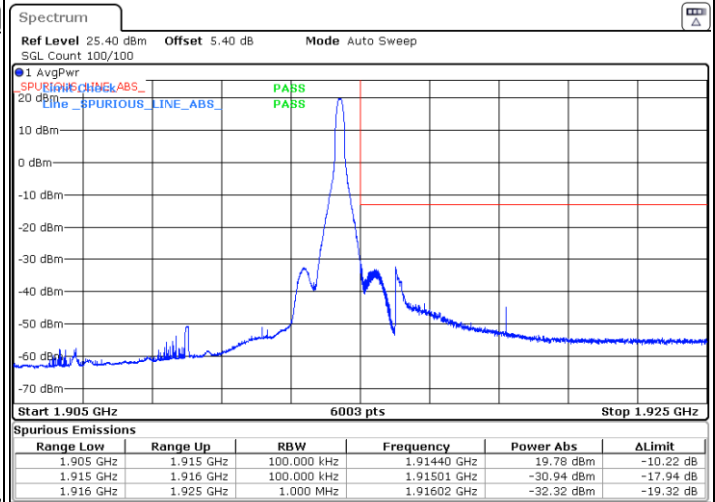


LTE Band 25 / 10MHz / 64QAM

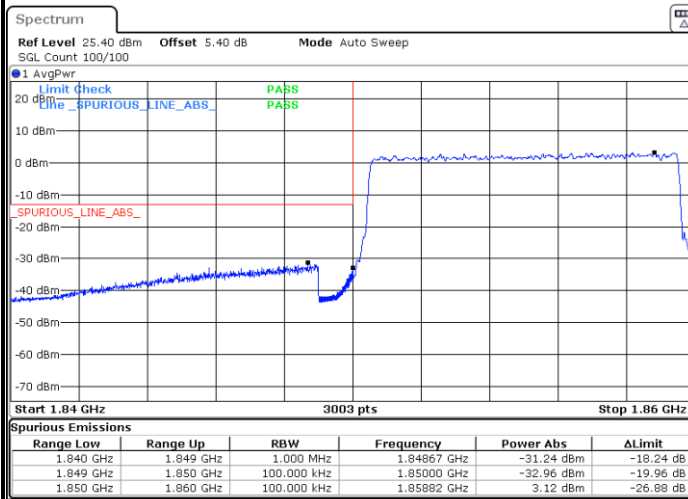
Lowest Band Edge / 1 RB



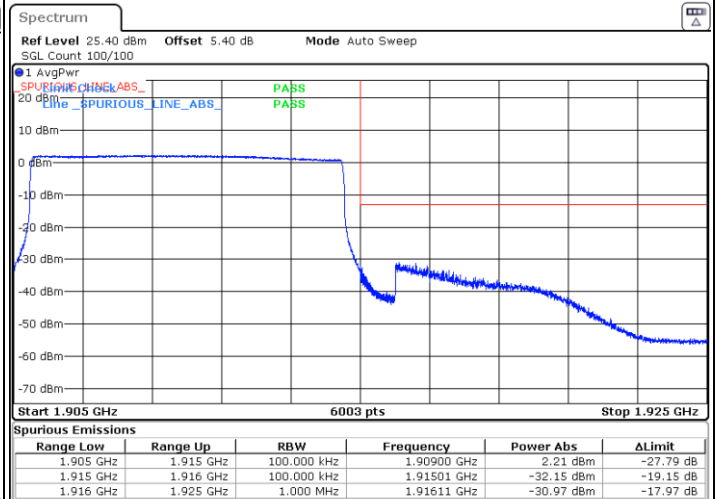
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



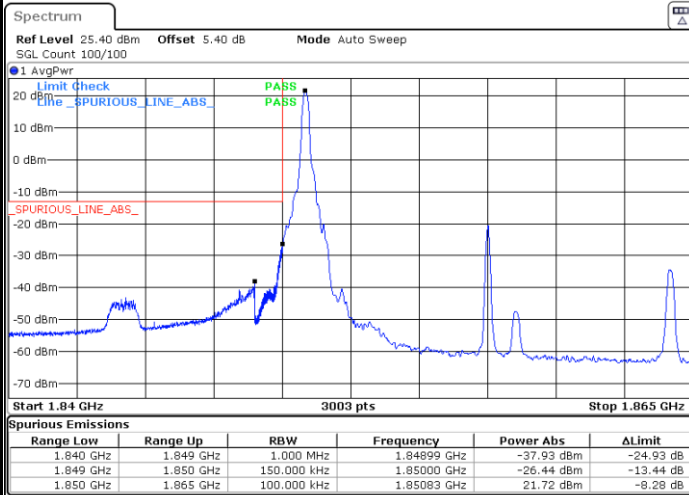
Highest Band Edge / Full RB



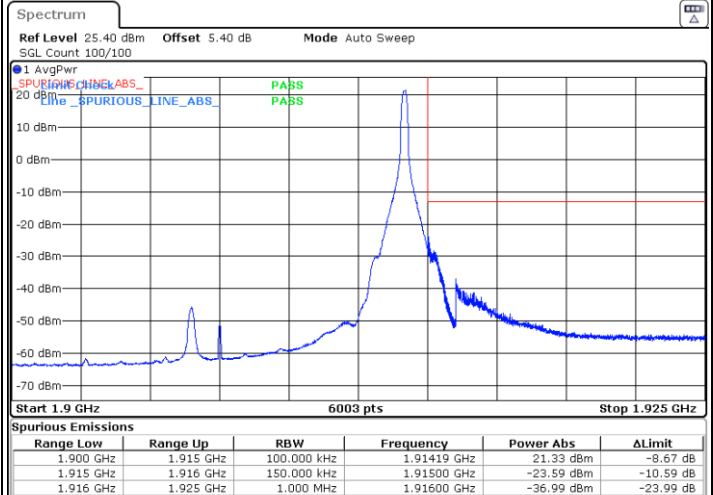


LTE Band 25 / 15MHz / QPSK

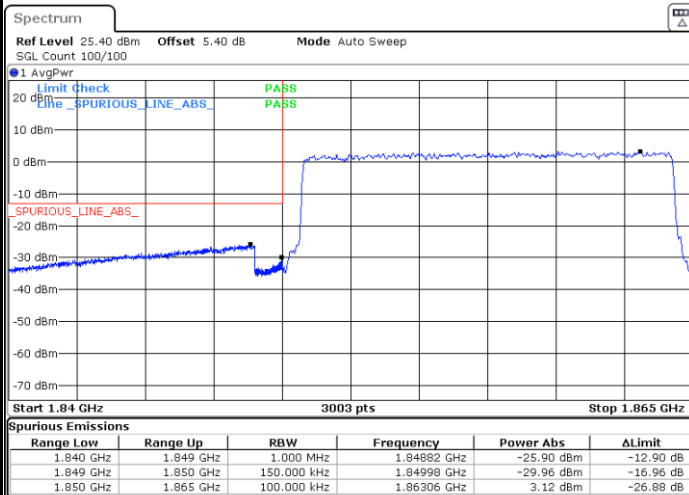
Lowest Band Edge / 1 RB



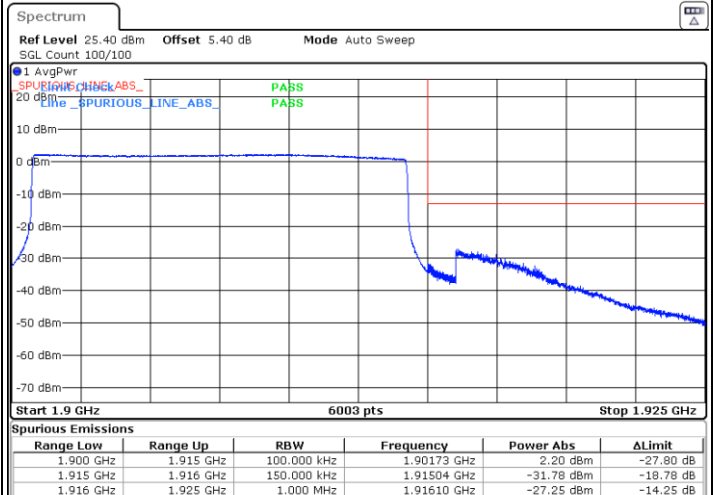
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



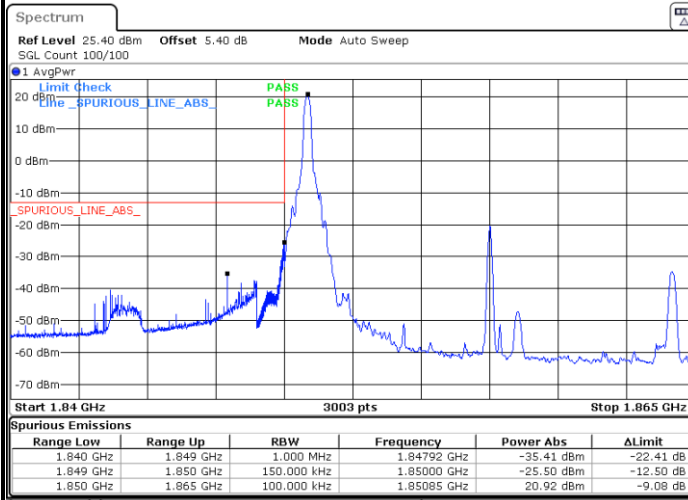
Highest Band Edge / Full RB



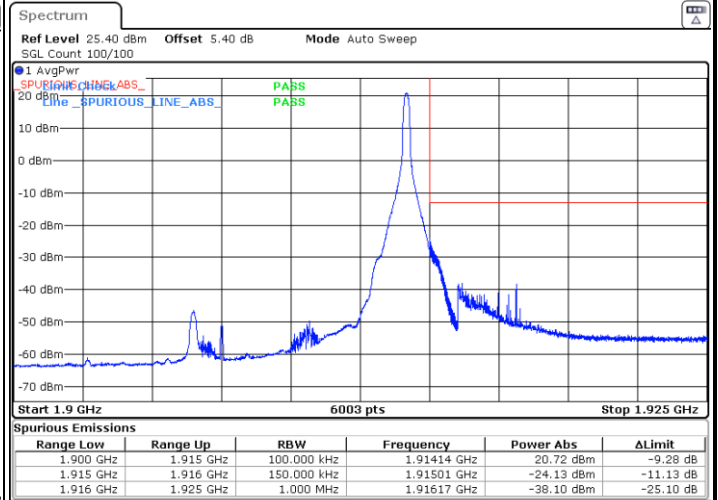


LTE Band 25 / 15MHz / 16QAM

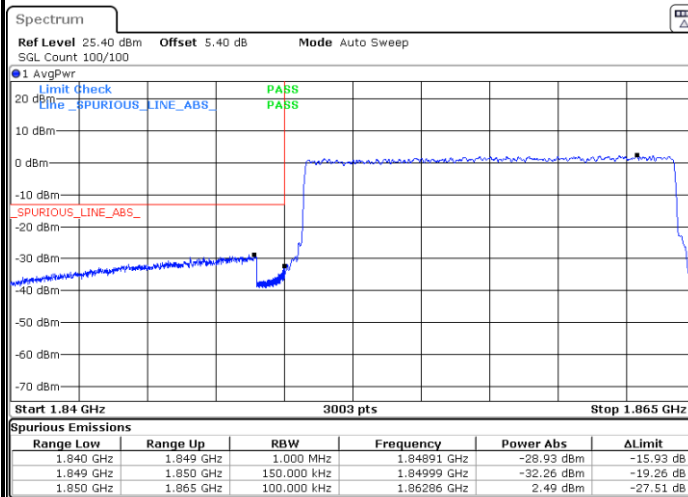
Lowest Band Edge / 1 RB



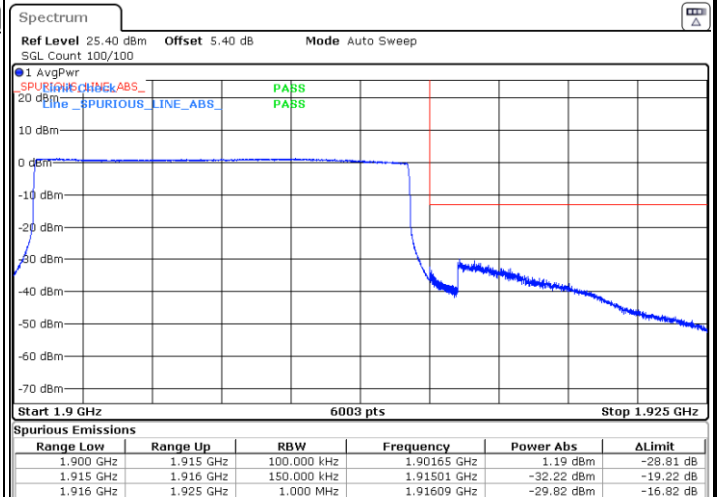
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



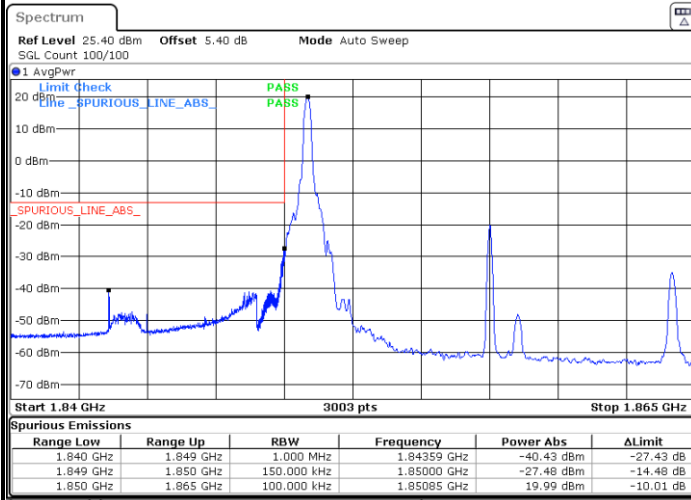
Highest Band Edge / Full RB



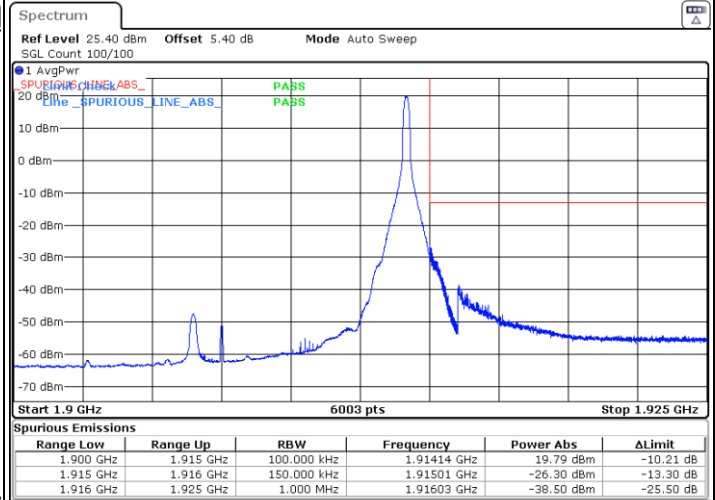


LTE Band 25 / 15MHz / 64QAM

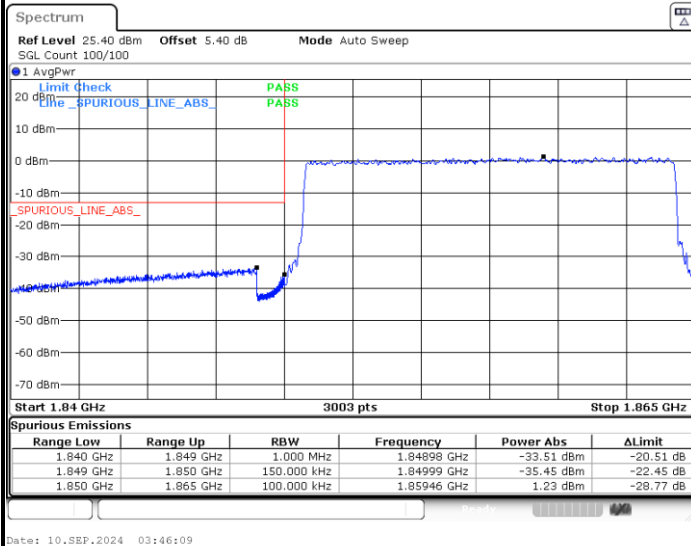
Lowest Band Edge / 1 RB



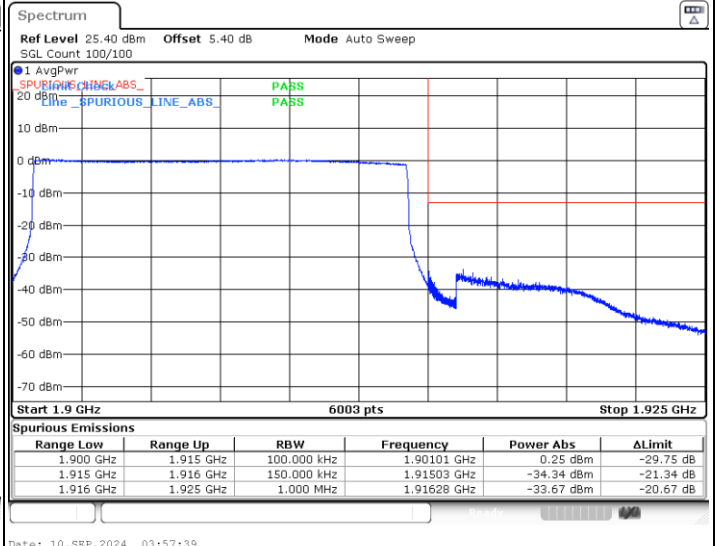
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



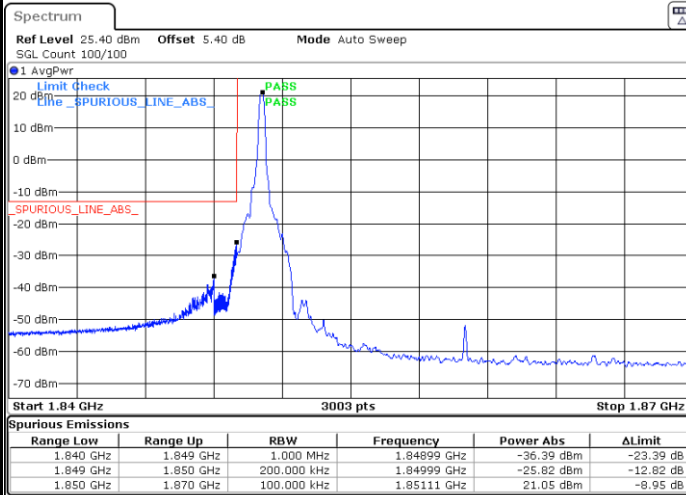
Highest Band Edge / Full RB



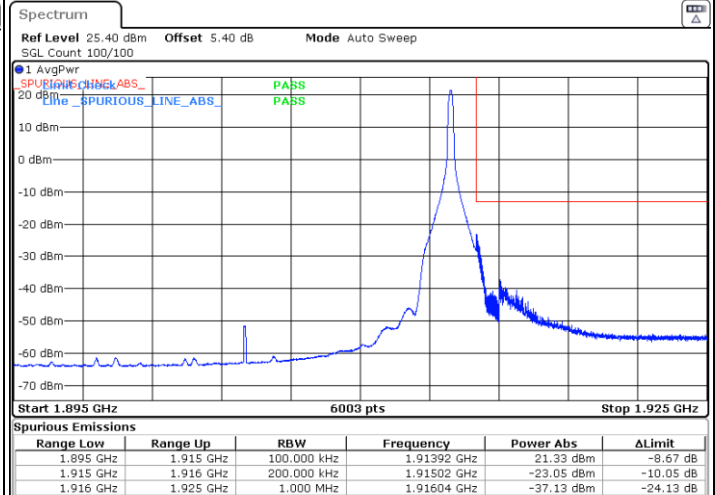


LTE Band 25 / 20MHz / QPSK

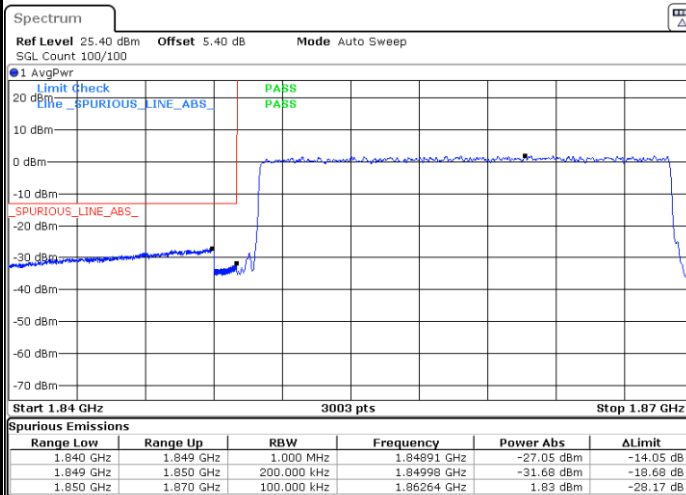
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

