



FCC RF Test Report

APPLICANT : CASTLES TECHNOLOGY CO., LTD.
EQUIPMENT : Smart Module
BRAND NAME :  CASTLES TECHNOLOGY
MODEL NAME : CWM100
FCC ID : WIYCWM100001
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Dec. 01, 2024 ~ Dec. 16, 2024

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.

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



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N0518B	Rev. 01	Initial issue of report	Jan. 06, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§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+10log ₁₀ (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+10log ₁₀ (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 14.20 dB at 7050.00 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

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.2 Manufacturer

CASTLES TECHNOLOGY CO., LTD.

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Module
Brand Name	
Model Name	CWM100
FCC ID	WIYCWM100001
SN	Conducted: 219b107d Radiation: 209b11f9
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	LTE Band 2 : 23.65 dBm LTE Band 4 : 23.70 dBm LTE Band 5 : 24.46 dBm LTE Band 25 : 22.25 dBm LTE Band 26 : 23.36 dBm LTE Band 66 : 23.75 dBm
Antenna Gain	LTE Band 2 : 4.0 dBi LTE Band 4 : 3.8 dBi LTE Band 5 : 4.5 dBi LTE Band 25 : 4.0 dBi LTE Band 26 : 4.5 dBi LTE Band 66 : 4.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.2317	1M09G7D	0.1766	1M08W7D
3	1851.5 ~ 1908.5	0.2148	2M73G7D	0.1774	2M73W7D
5	1852.5 ~ 1907.5	0.2228	4M49G7D	0.1706	4M48W7D
10	1855.0 ~ 1905.0	0.2208	8M99G7D	0.1702	8M99W7D
15	1857.5 ~ 1902.5	0.2208	13M4G7D	0.1710	13M5W7D
20	1860.0 ~ 1900.0	0.2218	17M8G7D	0.1706	17M9W7D
LTE Band 25		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.1644	1M09G7D	0.1528	1M10W7D
3	1851.5 ~ 1913.5	0.1648	2M73G7D	0.1500	2M71W7D
5	1852.5 ~ 1912.5	0.1656	4M51G7D	0.1483	4M47W7D
10	1855.0 ~ 1910.0	0.1660	8M99G7D	0.1528	9M01W7D
15	1857.5 ~ 1907.5	0.1675	13M4G7D	0.1528	13M5W7D
20	1860.0 ~ 1905.0	0.1679	17M9G7D	0.1535	17M9W7D



LTE Band 4		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.2328	1M10G7D	0.1807	1M10W7D
3	1711.5 ~ 1753.5	0.2328	2M75G7D	0.1816	2M74W7D
5	1712.5 ~ 1752.5	0.2339	4M48G7D	0.1816	4M48W7D
10	1715.0 ~ 1750.0	0.2344	9M03G7D	0.1807	9M01W7D
15	1717.5 ~ 1747.5	0.2317	13M4G7D	0.1811	13M3W7D
20	1720.0 ~ 1745.0	0.2339	17M8G7D	0.1811	17M9W7D
LTE Band 5		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.2570	1M09G7D	0.2070	1M08W7D
3	825.5 ~ 847.5	0.2723	2M73G7D	0.2042	2M72W7D
5	826.5 ~ 846.5	0.2793	4M49G7D	0.2032	4M48W7D
10	829.0 ~ 844.0	0.2553	9M07G7D	0.2046	9M03W7D
LTE Band 26		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.2065	1M08G7D	0.1462	1M09W7D
3	825.5 ~ 847.5	0.2037	2M71G7D	0.1486	2M71W7D
5	826.5 ~ 846.5	0.2051	4M49G7D	0.1472	4M50W7D
10	829.0 ~ 844.0	0.2109	9M05G7D	0.1542	8M97W7D
15	831.5 ~ 841.5	0.2168	13M5G7D	0.1552	13M4W7D
CH26790	824.0	0.2163	13M4G7D	0.1574	13M5W7D
LTE Band 66		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1779.3	0.2188	1M10G7D	0.1611	1M10W7D
3	1711.5 ~ 1778.5	0.2188	2M75G7D	0.1611	2M74W7D
5	1712.5 ~ 1777.5	0.2277	4M48G7D	0.1671	4M48W7D
10	1715.0 ~ 1775.0	0.2213	9M03G7D	0.1663	9M01W7D
15	1717.5 ~ 1772.5	0.2148	13M4G7D	0.1618	13M3W7D
20	1720.0 ~ 1770.0	0.2371	17M8G7D	0.1718	17M9W7D

Note:

1. 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.

- 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.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	03CH04-KS	AUDIX	E3	210616

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:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 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

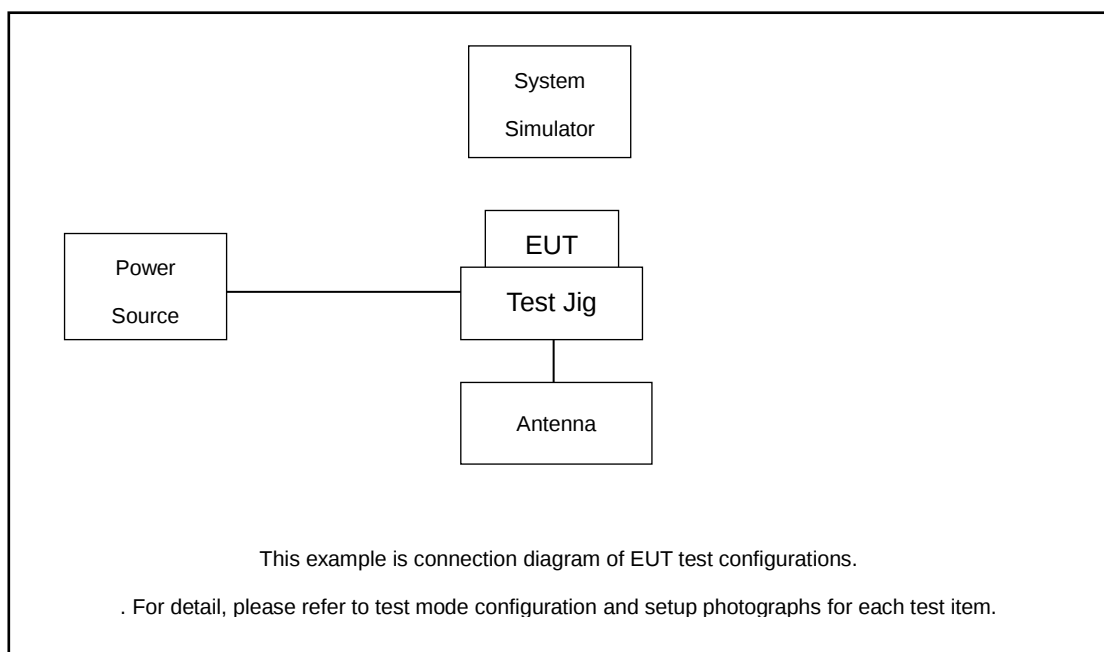
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	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	2						v	v	v	v			v		v	
	5				v	-	-	v	v	v			v		v	
	25						v	v	v	v			v		v	
	26					v	-	v	v	v			v		v	
	66						v	v	v	v			v		v	
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v				v		v	
	5	v	v	v	v	-	-	v	v				v		v	
	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	2	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
	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	2	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	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	2				v			v					v		v	
	5				v	-	-	v					v		v	
	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	2	Worst Case												v	v	v

Spurious Emission	5	Worst Case	v	v	v
	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.	Test Jig	N/A	N/A	N/A	N/A	N/A
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	USB Cable	N/A	N/A	N/A	N/A	N/A

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 5.6 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.6 \text{ (dB)} \end{aligned}$$

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

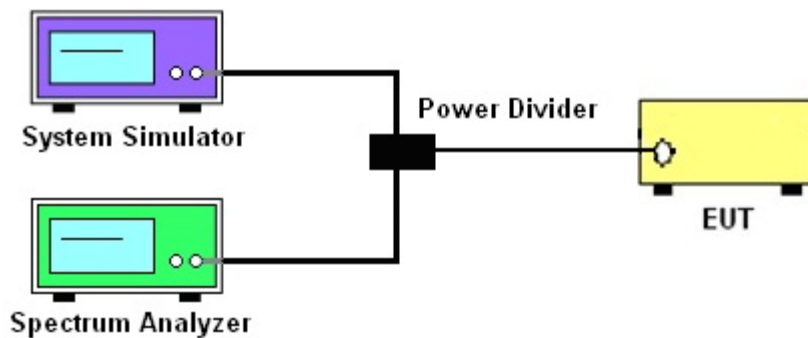
See list of measuring instruments of this test report.

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
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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$= P(W) - [43 + 10\log(P)] \text{ (dB)}$

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

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.

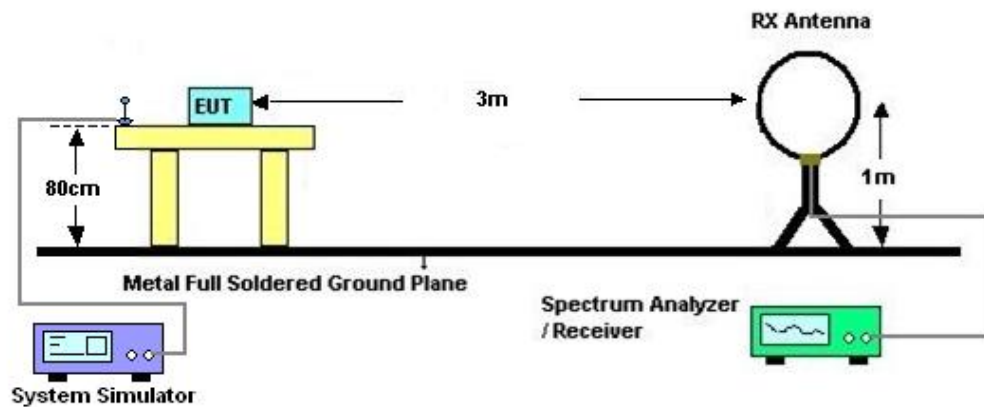
4 Radiated Test Items

4.1 Measuring Instruments

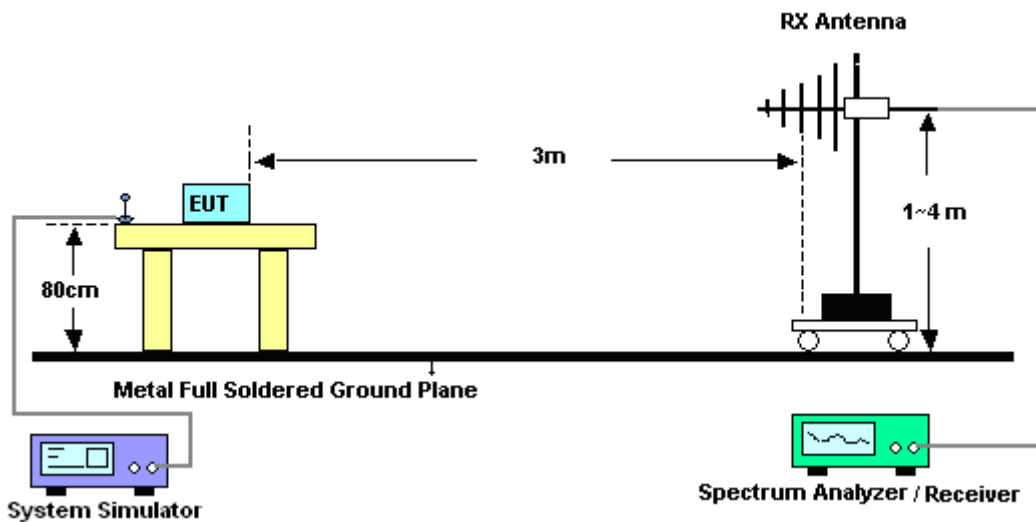
See list of measuring instruments of this test report.

4.2 Test Setup

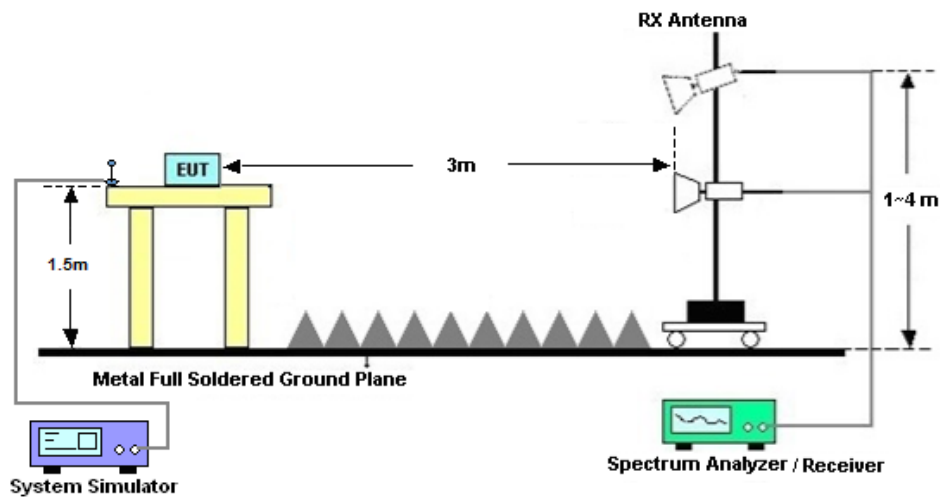
4.2.1 For radiated test below 30MHz



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, 2024	Dec. 01, 2024~ Dec. 14, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Dec. 01, 2024~ Dec. 14, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Dec. 01, 2024~ Dec. 14, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G, MAX 30dB	Oct. 11, 2024	Dec. 16, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 05, 2024	Dec. 16, 2024	Dec. 04, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Dec. 16, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Dec. 16, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Dec. 16, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Dec. 16, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Dec. 16, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 09, 2024	Dec. 16, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 09, 2024	Dec. 16, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)

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

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83dB
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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))	2.83dB
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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))	2.82dB
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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:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP (W)		
Channel				18700	18900	19100	L	M	H
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	0	22.62	23.18	22.89	0.4592	0.5224	0.4887
20	QPSK	1	49	23.21	23.29	23.24	0.5260	0.5358	0.5297
20	QPSK	1	99	22.66	23.46	23.11	0.4634	0.5572	0.5140
20	QPSK	50	0	21.63	21.59	21.52	0.3656	0.3622	0.3565
20	QPSK	50	24	22.06	21.98	21.67	0.4036	0.3963	0.3690
20	QPSK	50	50	22.07	22.13	21.95	0.4046	0.4102	0.3936
20	QPSK	100	0	22.21	22.12	21.88	0.4178	0.4093	0.3873
20	16QAM	1	0	21.43	21.33	21.78	0.3491	0.3412	0.3784
20	16QAM	1	49	22.32	22.24	22.31	0.4285	0.4207	0.4276
20	16QAM	1	99	21.59	21.52	21.39	0.3622	0.3565	0.3459
20	16QAM	50	0	21.24	21.12	21.26	0.3342	0.3251	0.3357
20	16QAM	50	24	20.97	20.98	20.89	0.3141	0.3148	0.3083
20	16QAM	50	50	21.32	21.38	21.33	0.3404	0.3451	0.3412
20	16QAM	100	0	21.29	21.22	21.19	0.3381	0.3327	0.3304
20	64QAM	1	0	21.06	21.15	21.52	0.3206	0.3273	0.3565
20	64QAM	1	49	21.34	21.26	21.18	0.3420	0.3357	0.3296
20	64QAM	1	99	21.33	21.27	21.14	0.3412	0.3365	0.3266
20	64QAM	50	0	20.22	20.25	20.17	0.2642	0.2661	0.2612
20	64QAM	50	24	20.53	20.47	20.36	0.2838	0.2799	0.2729
20	64QAM	50	50	20.21	20.25	20.21	0.2636	0.2661	0.2636
20	64QAM	100	0	20.05	20.09	20.06	0.2541	0.2564	0.2547
Channel				18675	18900	19125	L	M	H
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	22.64	23.18	22.87	0.4613	0.5224	0.4864
15	QPSK	1	37	23.20	23.27	23.25	0.5248	0.5333	0.5309
15	QPSK	1	74	22.63	23.44	23.11	0.4603	0.5546	0.5140
15	QPSK	36	0	21.65	21.59	21.52	0.3673	0.3622	0.3565
15	QPSK	36	20	22.08	21.96	21.65	0.4055	0.3945	0.3673
15	QPSK	36	39	22.07	22.11	21.95	0.4046	0.4083	0.3936
15	QPSK	75	0	22.23	22.13	21.90	0.4198	0.4102	0.3890
15	16QAM	1	0	21.45	21.33	21.75	0.3508	0.3412	0.3758
15	16QAM	1	37	22.33	22.23	22.30	0.4295	0.4198	0.4266
15	16QAM	1	74	21.59	21.50	21.38	0.3622	0.3548	0.3451
15	16QAM	36	0	21.24	21.10	21.23	0.3342	0.3236	0.3334
15	16QAM	36	20	20.98	20.98	20.87	0.3148	0.3148	0.3069
15	16QAM	36	39	21.30	21.39	21.33	0.3388	0.3459	0.3412



15	16QAM	75	0	21.29	21.20	21.17	0.3381	0.3311	0.3289
15	64QAM	1	0	21.05	21.16	21.50	0.3199	0.3281	0.3548
15	64QAM	1	37	21.34	21.25	21.16	0.3420	0.3350	0.3281
15	64QAM	1	74	21.34	21.26	21.12	0.3420	0.3357	0.3251
15	64QAM	36	0	20.20	20.24	20.15	0.2630	0.2655	0.2600
15	64QAM	36	20	20.55	20.47	20.35	0.2851	0.2799	0.2723
15	64QAM	36	39	20.22	20.24	20.20	0.2642	0.2655	0.2630
15	64QAM	75	0	20.03	20.07	20.04	0.2529	0.2553	0.2535
Channel				18650	18900	19150	L	M	H
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	0	22.60	23.19	22.90	0.4571	0.5236	0.4898
10	QPSK	1	25	23.23	23.27	23.25	0.5284	0.5333	0.5309
10	QPSK	1	49	22.67	23.44	23.09	0.4645	0.5546	0.5117
10	QPSK	25	0	21.62	21.57	21.54	0.3648	0.3606	0.3581
10	QPSK	25	12	22.08	21.96	21.66	0.4055	0.3945	0.3681
10	QPSK	25	25	22.08	22.13	21.92	0.4055	0.4102	0.3908
10	QPSK	50	0	22.18	22.09	21.87	0.4150	0.4064	0.3864
10	16QAM	1	0	21.41	21.30	21.79	0.3475	0.3388	0.3793
10	16QAM	1	25	22.31	22.22	22.29	0.4276	0.4188	0.4256
10	16QAM	1	49	21.58	21.53	21.41	0.3614	0.3573	0.3475
10	16QAM	25	0	21.23	21.13	21.26	0.3334	0.3258	0.3357
10	16QAM	25	12	20.98	20.96	20.88	0.3148	0.3133	0.3076
10	16QAM	25	25	21.32	21.40	21.32	0.3404	0.3467	0.3404
10	16QAM	50	0	21.30	21.19	21.16	0.3388	0.3304	0.3281
10	64QAM	1	0	21.07	21.15	21.51	0.3214	0.3273	0.3556
10	64QAM	1	25	21.33	21.28	21.15	0.3412	0.3373	0.3273
10	64QAM	1	49	21.32	21.28	21.15	0.3404	0.3373	0.3273
10	64QAM	25	0	20.23	20.24	20.16	0.2649	0.2655	0.2606
10	64QAM	25	12	20.51	20.47	20.35	0.2825	0.2799	0.2723
10	64QAM	25	25	20.19	20.22	20.20	0.2624	0.2642	0.2630
10	64QAM	50	0	20.04	20.11	20.06	0.2535	0.2576	0.2547
Channel				18625	18900	19175	L	M	H
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	0	22.59	23.18	22.86	0.4560	0.5224	0.4853
5	QPSK	1	12	23.21	23.29	23.23	0.5260	0.5358	0.5284
5	QPSK	1	24	22.67	23.48	23.11	0.4645	0.5598	0.5140
5	QPSK	12	0	21.63	21.60	21.52	0.3656	0.3631	0.3565
5	QPSK	12	7	22.05	21.98	21.65	0.4027	0.3963	0.3673
5	QPSK	12	13	22.09	22.14	21.96	0.4064	0.4111	0.3945
5	QPSK	25	0	22.21	22.10	21.85	0.4178	0.4074	0.3846
5	16QAM	1	0	21.41	21.33	21.77	0.3475	0.3412	0.3776
5	16QAM	1	12	22.32	22.22	22.32	0.4285	0.4188	0.4285
5	16QAM	1	24	21.60	21.54	21.38	0.3631	0.3581	0.3451
5	16QAM	12	0	21.23	21.12	21.28	0.3334	0.3251	0.3373
5	16QAM	12	7	20.96	20.99	20.86	0.3133	0.3155	0.3062
5	16QAM	12	13	21.30	21.39	21.33	0.3388	0.3459	0.3412
5	16QAM	25	0	21.27	21.21	21.21	0.3365	0.3319	0.3319
5	64QAM	1	0	21.05	21.15	21.53	0.3199	0.3273	0.3573
5	64QAM	1	12	21.31	21.26	21.15	0.3396	0.3357	0.3273
5	64QAM	1	24	21.34	21.27	21.13	0.3420	0.3365	0.3258
5	64QAM	12	0	20.23	20.24	20.18	0.2649	0.2655	0.2618
5	64QAM	12	7	20.51	20.45	20.33	0.2825	0.2786	0.2710



5	64QAM	12	13	20.21	20.22	20.20	0.2636	0.2642	0.2630
5	64QAM	25	0	20.05	20.06	20.08	0.2541	0.2547	0.2559
Channel				18615	18900	19185	L	M	H
Frequency (MHz)				1851.5	1880	1908.5			
3	QPSK	1	0	22.56	23.21	22.98	0.4529	0.5260	0.4989
3	QPSK	1	8	23.32	23.11	23.12	0.5395	0.5140	0.5152
3	QPSK	1	14	22.62	23.26	23.23	0.4592	0.5321	0.5284
3	QPSK	8	0	21.57	21.62	21.34	0.3606	0.3648	0.3420
3	QPSK	8	4	22.05	21.92	21.59	0.4027	0.3908	0.3622
3	QPSK	8	7	21.90	22.27	22.09	0.3890	0.4236	0.4064
3	QPSK	15	0	22.14	22.09	21.87	0.4111	0.4064	0.3864
3	16QAM	1	0	21.51	21.25	21.72	0.3556	0.3350	0.3733
3	16QAM	1	8	22.36	22.30	22.49	0.4325	0.4266	0.4457
3	16QAM	1	14	21.70	21.38	21.20	0.3715	0.3451	0.3311
3	16QAM	8	0	21.09	21.29	21.27	0.3228	0.3381	0.3365
3	16QAM	8	4	21.07	20.95	21.08	0.3214	0.3126	0.3221
3	16QAM	8	7	21.33	21.37	21.14	0.3412	0.3443	0.3266
3	16QAM	15	0	21.44	21.34	21.02	0.3499	0.3420	0.3177
3	64QAM	1	0	21.10	21.29	21.41	0.3236	0.3381	0.3475
3	64QAM	1	8	21.41	21.42	21.25	0.3475	0.3483	0.3350
3	64QAM	1	14	21.25	21.43	21.02	0.3350	0.3491	0.3177
3	64QAM	8	0	20.13	20.36	20.18	0.2588	0.2729	0.2618
3	64QAM	8	4	20.49	20.60	20.45	0.2812	0.2884	0.2786
3	64QAM	8	7	20.31	20.09	20.27	0.2698	0.2564	0.2673
3	64QAM	15	0	20.08	20.07	20.11	0.2559	0.2553	0.2576
Channel				18607	18900	19193	L	M	H
Frequency (MHz)				1850.7	1880	1909.3			
1.4	QPSK	1	0	22.43	23.23	22.80	0.4395	0.5284	0.4786
1.4	QPSK	1	3	23.38	23.29	23.17	0.5470	0.5358	0.5212
1.4	QPSK	1	5	22.70	23.65	22.96	0.4677	0.5821	0.4966
1.4	QPSK	3	0	21.79	21.64	21.43	0.3793	0.3664	0.3491
1.4	QPSK	3	1	22.04	22.11	21.55	0.4018	0.4083	0.3589
1.4	QPSK	3	3	22.08	22.29	22.08	0.4055	0.4256	0.4055
1.4	QPSK	6	0	22.05	22.26	21.70	0.4027	0.4227	0.3715
1.4	16QAM	1	0	21.57	21.17	21.79	0.3606	0.3289	0.3793
1.4	16QAM	1	3	22.47	22.14	22.34	0.4436	0.4111	0.4305
1.4	16QAM	1	5	21.53	21.37	21.43	0.3573	0.3443	0.3491
1.4	16QAM	3	0	21.27	21.25	21.46	0.3365	0.3350	0.3516
1.4	16QAM	3	1	20.87	21.14	21.03	0.3069	0.3266	0.3184
1.4	16QAM	3	3	21.37	21.41	21.25	0.3443	0.3475	0.3350
1.4	16QAM	6	0	21.36	21.15	21.14	0.3436	0.3273	0.3266
1.4	64QAM	1	0	21.06	20.97	21.48	0.3206	0.3141	0.3532
1.4	64QAM	1	3	21.14	21.39	21.09	0.3266	0.3459	0.3228
1.4	64QAM	1	5	21.47	21.34	20.97	0.3524	0.3420	0.3141
1.4	64QAM	3	0	20.41	20.42	20.17	0.2761	0.2767	0.2612
1.4	64QAM	3	1	20.43	20.50	20.27	0.2773	0.2818	0.2673
1.4	64QAM	3	3	20.13	20.23	20.18	0.2588	0.2649	0.2618
1.4	64QAM	6	0	19.86	20.06	19.88	0.2432	0.2547	0.2443



LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP (W)		
Channel				20050	20175	20300	L	M	H
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	23.23	23.36	23.26	0.5047	0.5200	0.5082
20	QPSK	1	49	23.59	23.67	23.69	0.5483	0.5585	0.5610
20	QPSK	1	99	23.18	23.20	23.26	0.4989	0.5012	0.5082
20	QPSK	50	0	22.24	22.12	23.18	0.4018	0.3908	0.4989
20	QPSK	50	24	22.11	22.19	22.23	0.3899	0.3972	0.4009
20	QPSK	50	50	22.38	22.27	22.19	0.4150	0.4046	0.3972
20	QPSK	100	0	22.17	22.15	22.19	0.3954	0.3936	0.3972
20	16QAM	1	0	22.13	22.34	22.23	0.3917	0.4111	0.4009
20	16QAM	1	49	22.13	22.05	22.14	0.3917	0.3846	0.3926
20	16QAM	1	99	21.68	21.79	22.58	0.3532	0.3622	0.4345
20	16QAM	50	0	20.67	20.86	20.87	0.2799	0.2924	0.2931
20	16QAM	50	24	21.01	21.09	21.16	0.3027	0.3083	0.3133
20	16QAM	50	50	21.33	21.29	21.33	0.3258	0.3228	0.3258
20	16QAM	100	0	21.26	21.20	21.35	0.3206	0.3162	0.3273
20	64QAM	1	0	21.17	21.25	21.47	0.3141	0.3199	0.3365
20	64QAM	1	49	21.67	21.74	21.59	0.3524	0.3581	0.3459
20	64QAM	1	99	20.68	20.61	20.71	0.2805	0.2761	0.2825
20	64QAM	50	0	20.01	20.08	20.16	0.2404	0.2443	0.2489
20	64QAM	50	24	19.96	20.18	20.25	0.2377	0.2500	0.2541
20	64QAM	50	50	20.05	20.28	20.34	0.2427	0.2559	0.2594
20	64QAM	100	0	20.16	20.32	20.36	0.2489	0.2582	0.2606
Channel				20025	20175	20325	L	M	H
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	23.22	23.38	23.26	0.5035	0.5224	0.5082
15	QPSK	1	37	23.60	23.65	23.65	0.5495	0.5559	0.5559
15	QPSK	1	74	23.17	23.18	23.27	0.4977	0.4989	0.5093
15	QPSK	36	0	22.23	22.09	22.33	0.4009	0.3882	0.4102
15	QPSK	36	20	22.13	22.20	22.21	0.3917	0.3981	0.3990
15	QPSK	36	39	22.38	22.27	22.20	0.4150	0.4046	0.3981
15	QPSK	75	0	22.17	22.17	22.17	0.3954	0.3954	0.3954
15	16QAM	1	0	22.11	22.35	22.25	0.3899	0.4121	0.4027
15	16QAM	1	37	22.11	22.05	22.15	0.3899	0.3846	0.3936
15	16QAM	1	74	21.67	21.78	22.58	0.3524	0.3614	0.4345
15	16QAM	36	0	20.66	20.85	20.85	0.2793	0.2917	0.2917
15	16QAM	36	20	20.99	21.10	21.16	0.3013	0.3090	0.3133
15	16QAM	36	39	21.30	21.26	21.34	0.3236	0.3206	0.3266
15	16QAM	75	0	21.25	21.17	21.35	0.3199	0.3141	0.3273
15	64QAM	1	0	21.19	21.27	21.47	0.3155	0.3214	0.3365
15	64QAM	1	37	21.66	21.75	21.57	0.3516	0.3589	0.3443
15	64QAM	1	74	20.66	20.61	20.70	0.2793	0.2761	0.2818
15	64QAM	36	0	20.01	20.09	20.13	0.2404	0.2449	0.2472
15	64QAM	36	20	19.95	20.20	20.23	0.2371	0.2512	0.2529
15	64QAM	36	39	20.02	20.28	20.33	0.2410	0.2559	0.2588
15	64QAM	75	0	20.14	20.29	20.38	0.2477	0.2564	0.2618



Channel				20000	20175	20350	L	M	H
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	23.25	23.34	23.24	0.5070	0.5176	0.5058
10	QPSK	1	25	23.61	23.66	23.70	0.5508	0.5572	0.5623
10	QPSK	1	49	23.18	23.18	23.26	0.4989	0.4989	0.5082
10	QPSK	25	0	22.22	22.13	22.25	0.3999	0.3917	0.4027
10	QPSK	25	12	22.11	22.18	22.23	0.3899	0.3963	0.4009
10	QPSK	25	25	22.40	22.28	22.17	0.4169	0.4055	0.3954
10	QPSK	50	0	22.16	22.13	22.21	0.3945	0.3917	0.3990
10	16QAM	1	0	22.14	22.33	22.21	0.3926	0.4102	0.3990
10	16QAM	1	25	22.14	22.05	22.15	0.3926	0.3846	0.3936
10	16QAM	1	49	21.66	21.78	22.57	0.3516	0.3614	0.4335
10	16QAM	25	0	20.65	20.84	20.84	0.2786	0.2911	0.2911
10	16QAM	25	12	20.99	21.09	21.13	0.3013	0.3083	0.3112
10	16QAM	25	25	21.33	21.29	21.33	0.3258	0.3228	0.3258
10	16QAM	50	0	21.24	21.19	21.37	0.3192	0.3155	0.3289
10	64QAM	1	0	21.16	21.26	21.48	0.3133	0.3206	0.3373
10	64QAM	1	25	21.69	21.71	21.61	0.3540	0.3556	0.3475
10	64QAM	1	49	20.69	20.62	20.72	0.2812	0.2767	0.2831
10	64QAM	25	0	20.01	20.08	20.14	0.2404	0.2443	0.2477
10	64QAM	25	12	19.93	20.17	20.24	0.2360	0.2495	0.2535
10	64QAM	25	25	20.02	20.28	20.36	0.2410	0.2559	0.2606
10	64QAM	50	0	20.16	20.34	20.34	0.2489	0.2594	0.2594
Channel				19975	20175	20375	L	M	H
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	23.20	23.33	23.25	0.5012	0.5164	0.5070
5	QPSK	1	12	23.59	23.66	23.69	0.5483	0.5572	0.5610
5	QPSK	1	24	23.19	23.19	23.27	0.5000	0.5000	0.5093
5	QPSK	12	0	22.22	22.11	22.39	0.3999	0.3899	0.4159
5	QPSK	12	7	22.11	22.18	22.22	0.3899	0.3963	0.3999
5	QPSK	12	13	22.39	22.28	22.16	0.4159	0.4055	0.3945
5	QPSK	25	0	22.16	22.12	22.21	0.3945	0.3908	0.3990
5	16QAM	1	0	22.14	22.31	22.21	0.3926	0.4083	0.3990
5	16QAM	1	12	22.15	22.05	22.14	0.3936	0.3846	0.3926
5	16QAM	1	24	21.69	21.78	22.59	0.3540	0.3614	0.4355
5	16QAM	12	0	20.65	20.87	20.87	0.2786	0.2931	0.2931
5	16QAM	12	7	21.02	21.09	21.15	0.3034	0.3083	0.3126
5	16QAM	12	13	21.32	21.30	21.35	0.3251	0.3236	0.3273
5	16QAM	25	0	21.23	21.21	21.35	0.3184	0.3170	0.3273
5	64QAM	1	0	21.17	21.23	21.45	0.3141	0.3184	0.3350
5	64QAM	1	12	21.65	21.72	21.60	0.3508	0.3565	0.3467
5	64QAM	1	24	20.67	20.59	20.69	0.2799	0.2748	0.2812
5	64QAM	12	0	20.02	20.06	20.16	0.2410	0.2432	0.2489
5	64QAM	12	7	19.95	20.16	20.24	0.2371	0.2489	0.2535
5	64QAM	12	13	20.06	20.26	20.34	0.2432	0.2547	0.2594
5	64QAM	25	0	20.15	20.29	20.36	0.2483	0.2564	0.2606
Channel				19965	20175	20385	L	M	H
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	23.21	23.38	23.24	0.5023	0.5224	0.5058
3	QPSK	1	8	23.56	23.67	23.67	0.5445	0.5585	0.5585



3	QPSK	1	14	23.17	23.18	23.25	0.4977	0.4989	0.5070
3	QPSK	8	0	22.24	22.12	22.09	0.4018	0.3908	0.3882
3	QPSK	8	4	22.11	22.18	22.22	0.3899	0.3963	0.3999
3	QPSK	8	7	22.36	22.28	22.20	0.4130	0.4055	0.3981
3	QPSK	15	0	22.14	22.12	22.17	0.3926	0.3908	0.3954
3	16QAM	1	0	22.13	22.33	22.23	0.3917	0.4102	0.4009
3	16QAM	1	8	22.14	22.04	22.11	0.3926	0.3837	0.3899
3	16QAM	1	14	21.67	21.76	22.59	0.3524	0.3597	0.4355
3	16QAM	8	0	20.68	20.86	20.86	0.2805	0.2924	0.2924
3	16QAM	8	4	21.01	21.10	21.16	0.3027	0.3090	0.3133
3	16QAM	8	7	21.34	21.30	21.33	0.3266	0.3236	0.3258
3	16QAM	15	0	21.23	21.20	21.33	0.3184	0.3162	0.3258
3	64QAM	1	0	21.15	21.26	21.45	0.3126	0.3206	0.3350
3	64QAM	1	8	21.66	21.72	21.57	0.3516	0.3565	0.3443
3	64QAM	1	14	20.66	20.60	20.72	0.2793	0.2754	0.2831
3	64QAM	8	0	19.99	20.07	20.18	0.2393	0.2438	0.2500
3	64QAM	8	4	19.98	20.16	20.24	0.2388	0.2489	0.2535
3	64QAM	8	7	20.04	20.26	20.31	0.2421	0.2547	0.2576
3	64QAM	15	0	20.16	20.30	20.33	0.2489	0.2570	0.2588
Channel				19957	20175	20393	L	M	H
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	23.21	23.34	23.26	0.5023	0.5176	0.5082
1.4	QPSK	1	3	23.58	23.64	23.67	0.5470	0.5546	0.5585
1.4	QPSK	1	5	23.16	23.19	23.26	0.4966	0.5000	0.5082
1.4	QPSK	3	0	22.22	22.13	22.12	0.3999	0.3917	0.3908
1.4	QPSK	3	1	22.09	22.20	22.22	0.3882	0.3981	0.3999
1.4	QPSK	3	3	22.36	22.25	22.20	0.4130	0.4027	0.3981
1.4	QPSK	6	0	22.15	22.13	22.19	0.3936	0.3917	0.3972
1.4	16QAM	1	0	22.11	22.34	22.21	0.3899	0.4111	0.3990
1.4	16QAM	1	3	22.12	22.02	22.12	0.3908	0.3819	0.3908
1.4	16QAM	1	5	21.65	21.81	22.57	0.3508	0.3639	0.4335
1.4	16QAM	3	0	20.65	20.86	20.85	0.2786	0.2924	0.2917
1.4	16QAM	3	1	21.02	21.08	21.13	0.3034	0.3076	0.3112
1.4	16QAM	3	3	21.30	21.29	21.30	0.3236	0.3228	0.3236
1.4	16QAM	6	0	21.23	21.20	21.34	0.3184	0.3162	0.3266
1.4	64QAM	1	0	21.17	21.23	21.45	0.3141	0.3184	0.3350
1.4	64QAM	1	3	21.69	21.75	21.57	0.3540	0.3589	0.3443
1.4	64QAM	1	5	20.68	20.59	20.72	0.2805	0.2748	0.2831
1.4	64QAM	3	0	20.00	20.08	20.16	0.2399	0.2443	0.2489
1.4	64QAM	3	1	19.94	20.17	20.26	0.2366	0.2495	0.2547
1.4	64QAM	3	3	20.03	20.30	20.35	0.2415	0.2570	0.2600
1.4	64QAM	6	0	20.15	20.30	20.35	0.2483	0.2570	0.2600



LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP (W)		
Channel				20450	20525	20600	L	M	H
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.64	23.48	23.57	0.3972	0.3828	0.3908
10	QPSK	1	25	24.07	24.03	24.01	0.4385	0.4345	0.4325
10	QPSK	1	49	23.45	23.41	23.46	0.3802	0.3767	0.3811
10	QPSK	25	0	23.03	23.05	23.00	0.3451	0.3467	0.3428
10	QPSK	25	12	23.01	22.99	23.04	0.3436	0.3420	0.3459
10	QPSK	25	25	22.78	22.83	22.76	0.3258	0.3296	0.3243
10	QPSK	50	0	22.91	22.76	22.84	0.3357	0.3243	0.3304
10	16QAM	1	0	22.57	22.63	22.62	0.3105	0.3148	0.3141
10	16QAM	1	25	23.11	22.95	22.91	0.3516	0.3388	0.3357
10	16QAM	1	49	22.61	22.58	22.51	0.3133	0.3112	0.3062
10	16QAM	25	0	22.06	22.11	22.08	0.2761	0.2793	0.2773
10	16QAM	25	12	22.04	22.00	21.98	0.2748	0.2723	0.2710
10	16QAM	25	25	22.02	21.98	21.91	0.2735	0.2710	0.2667
10	16QAM	50	0	21.96	21.93	21.94	0.2698	0.2679	0.2685
10	64QAM	1	0	22.41	22.01	22.04	0.2992	0.2729	0.2748
10	64QAM	1	25	22.60	22.51	22.49	0.3126	0.3062	0.3048
10	64QAM	1	49	22.27	22.34	22.30	0.2897	0.2944	0.2917
10	64QAM	25	0	21.98	21.96	21.93	0.2710	0.2698	0.2679
10	64QAM	25	12	21.97	21.95	21.91	0.2704	0.2692	0.2667
10	64QAM	25	25	21.90	21.93	21.92	0.2661	0.2679	0.2673
10	64QAM	50	0	21.98	21.94	21.93	0.2710	0.2685	0.2679
Channel				20425	20525	20625	L	M	H
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.68	23.85	23.62	0.4009	0.4169	0.3954
5	QPSK	1	12	24.39	24.46	24.44	0.4721	0.4797	0.4775
5	QPSK	1	24	23.73	23.79	23.77	0.4055	0.4111	0.4093
5	QPSK	12	0	23.82	23.87	23.81	0.4140	0.4188	0.4130
5	QPSK	12	7	22.90	22.93	22.88	0.3350	0.3373	0.3334
5	QPSK	12	13	22.83	22.82	22.86	0.3296	0.3289	0.3319
5	QPSK	25	0	22.82	22.86	22.81	0.3289	0.3319	0.3281
5	16QAM	1	0	22.93	22.87	22.69	0.3373	0.3327	0.3192
5	16QAM	1	12	23.01	23.08	23.04	0.3436	0.3491	0.3459
5	16QAM	1	24	22.49	22.52	22.53	0.3048	0.3069	0.3076
5	16QAM	12	0	21.88	21.91	21.90	0.2649	0.2667	0.2661
5	16QAM	12	7	21.94	21.93	21.95	0.2685	0.2679	0.2692
5	16QAM	12	13	21.88	21.85	21.91	0.2649	0.2630	0.2667
5	16QAM	25	0	22.09	22.04	22.03	0.2780	0.2748	0.2742
5	64QAM	1	0	21.95	21.98	21.90	0.2692	0.2710	0.2661
5	64QAM	1	12	22.41	22.48	22.44	0.2992	0.3041	0.3013
5	64QAM	1	24	22.28	22.31	22.22	0.2904	0.2924	0.2864
5	64QAM	12	0	21.82	21.89	21.83	0.2612	0.2655	0.2618
5	64QAM	12	7	21.79	21.83	21.84	0.2594	0.2618	0.2624
5	64QAM	12	13	21.72	21.81	21.69	0.2553	0.2606	0.2535
5	64QAM	25	0	21.86	21.92	21.79	0.2636	0.2673	0.2594



Channel				20415	20525	20635	L	M	H
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.91	23.88	23.79	0.4227	0.4198	0.4111
3	QPSK	1	8	24.17	24.35	24.24	0.4487	0.4677	0.4560
3	QPSK	1	14	23.66	23.71	23.66	0.3990	0.4036	0.3990
3	QPSK	8	0	23.74	23.83	23.87	0.4064	0.4150	0.4188
3	QPSK	8	4	22.79	22.88	22.79	0.3266	0.3334	0.3266
3	QPSK	8	7	22.82	22.78	23.71	0.3289	0.3258	0.4036
3	QPSK	15	0	22.94	22.91	22.86	0.3381	0.3357	0.3319
3	16QAM	1	0	22.93	22.76	22.69	0.3373	0.3243	0.3192
3	16QAM	1	8	23.10	23.05	22.98	0.3508	0.3467	0.3412
3	16QAM	1	14	22.29	22.46	22.51	0.2911	0.3027	0.3062
3	16QAM	8	0	21.69	21.82	21.91	0.2535	0.2612	0.2667
3	16QAM	8	4	21.80	21.87	21.81	0.2600	0.2642	0.2606
3	16QAM	8	7	21.85	21.81	21.86	0.2630	0.2606	0.2636
3	16QAM	15	0	22.04	21.99	21.85	0.2748	0.2716	0.2630
3	64QAM	1	0	21.88	21.85	21.74	0.2649	0.2630	0.2564
3	64QAM	1	8	22.46	22.43	22.51	0.3027	0.3006	0.3062
3	64QAM	1	14	22.27	22.22	22.15	0.2897	0.2864	0.2818
3	64QAM	8	0	21.89	21.81	21.85	0.2655	0.2606	0.2630
3	64QAM	8	4	21.81	21.74	21.89	0.2606	0.2564	0.2655
3	64QAM	8	7	21.79	21.76	21.86	0.2594	0.2576	0.2636
3	64QAM	15	0	21.80	21.72	21.81	0.2600	0.2553	0.2606
Channel				20407	20525	20643	L	M	H
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.71	23.44	23.54	0.4036	0.3793	0.3882
1.4	QPSK	1	3	24.00	24.10	24.00	0.4315	0.4416	0.4315
1.4	QPSK	1	5	23.38	23.47	23.54	0.3741	0.3819	0.3882
1.4	QPSK	3	0	23.02	23.01	23.00	0.3443	0.3436	0.3428
1.4	QPSK	3	1	23.05	23.05	23.07	0.3467	0.3467	0.3483
1.4	QPSK	3	3	23.01	23.02	23.07	0.3436	0.3443	0.3483
1.4	QPSK	6	0	22.87	22.81	22.90	0.3327	0.3281	0.3350
1.4	16QAM	1	0	22.61	22.69	22.63	0.3133	0.3192	0.3148
1.4	16QAM	1	3	23.16	22.95	22.92	0.3556	0.3388	0.3365
1.4	16QAM	1	5	22.62	22.52	22.57	0.3141	0.3069	0.3105
1.4	16QAM	3	0	22.06	22.16	22.05	0.2761	0.2825	0.2754
1.4	16QAM	3	1	22.00	22.03	22.02	0.2723	0.2742	0.2735
1.4	16QAM	3	3	22.08	22.01	22.03	0.2773	0.2729	0.2742
1.4	16QAM	6	0	21.91	21.91	21.90	0.2667	0.2667	0.2661
1.4	64QAM	1	0	22.38	22.00	21.98	0.2972	0.2723	0.2710
1.4	64QAM	1	3	22.68	22.49	22.56	0.3184	0.3048	0.3097
1.4	64QAM	1	5	22.24	22.38	22.22	0.2877	0.2972	0.2864
1.4	64QAM	3	0	22.06	22.01	21.92	0.2761	0.2729	0.2673
1.4	64QAM	3	1	21.94	21.98	21.92	0.2685	0.2710	0.2673
1.4	64QAM	3	3	21.94	22.00	21.94	0.2685	0.2723	0.2685
1.4	64QAM	6	0	21.95	21.99	22.00	0.2692	0.2716	0.2723



LTE Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP (W)		
Channel				26140	26340	26590	L	M	H
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	21.97	21.86	21.91	0.3954	0.3855	0.3899
20	QPSK	1	49	22.11	22.07	22.13	0.4083	0.4046	0.4102
20	QPSK	1	99	22.25	22.23	22.15	0.4217	0.4198	0.4121
20	QPSK	50	0	20.87	20.90	20.74	0.3069	0.3090	0.2979
20	QPSK	50	24	20.89	20.97	20.85	0.3083	0.3141	0.3055
20	QPSK	50	50	21.11	21.13	21.16	0.3243	0.3258	0.3281
20	QPSK	100	0	21.05	21.10	21.09	0.3199	0.3236	0.3228
20	16QAM	1	0	21.13	21.21	21.07	0.3258	0.3319	0.3214
20	16QAM	1	49	20.69	20.80	20.73	0.2944	0.3020	0.2972
20	16QAM	1	99	20.96	21.03	21.86	0.3133	0.3184	0.3855
20	16QAM	50	0	19.91	19.96	19.78	0.2460	0.2489	0.2388
20	16QAM	50	24	20.08	20.03	20.02	0.2559	0.2529	0.2523
20	16QAM	50	50	20.05	20.14	20.03	0.2541	0.2594	0.2529
20	16QAM	100	0	20.02	20.03	20.01	0.2523	0.2529	0.2518
20	64QAM	1	0	19.79	19.86	19.82	0.2393	0.2432	0.2410
20	64QAM	1	49	20.33	20.30	20.36	0.2710	0.2692	0.2729
20	64QAM	1	99	20.03	20.12	20.05	0.2529	0.2582	0.2541
20	64QAM	50	0	18.94	18.92	18.99	0.1968	0.1959	0.1991
20	64QAM	50	24	18.99	19.01	19.06	0.1991	0.2000	0.2023
20	64QAM	50	50	18.98	19.01	19.04	0.1986	0.2000	0.2014
20	64QAM	100	0	19.11	19.07	19.10	0.2046	0.2028	0.2042
Channel				26115	26340	26615	L	M	H
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	21.95	21.85	21.89	0.3936	0.3846	0.3882
15	QPSK	1	37	22.10	22.06	22.12	0.4074	0.4036	0.4093
15	QPSK	1	74	22.24	22.22	22.13	0.4207	0.4188	0.4102
15	QPSK	36	0	20.85	20.89	20.73	0.3055	0.3083	0.2972
15	QPSK	36	20	20.87	20.95	20.84	0.3069	0.3126	0.3048
15	QPSK	36	39	21.09	21.10	21.13	0.3228	0.3236	0.3258
15	QPSK	75	0	21.03	21.07	21.07	0.3184	0.3214	0.3214
15	16QAM	1	0	21.11	21.20	21.05	0.3243	0.3311	0.3199
15	16QAM	1	37	20.66	20.79	20.72	0.2924	0.3013	0.2965
15	16QAM	1	74	20.94	21.01	21.84	0.3119	0.3170	0.3837
15	16QAM	36	0	19.90	19.94	19.75	0.2455	0.2477	0.2371
15	16QAM	36	20	20.06	20.02	20.00	0.2547	0.2523	0.2512
15	16QAM	36	39	20.02	20.12	20.02	0.2523	0.2582	0.2523
15	16QAM	75	0	20.00	20.01	19.99	0.2512	0.2518	0.2506
15	64QAM	1	0	19.78	19.84	19.79	0.2388	0.2421	0.2393
15	64QAM	1	37	20.30	20.28	20.34	0.2692	0.2679	0.2716
15	64QAM	1	74	20.00	20.10	20.03	0.2512	0.2570	0.2529
15	64QAM	36	0	18.92	18.91	18.97	0.1959	0.1954	0.1982
15	64QAM	36	20	18.97	18.98	19.05	0.1982	0.1986	0.2018
15	64QAM	36	39	18.97	18.98	19.01	0.1982	0.1986	0.2000
15	64QAM	75	0	19.10	19.05	19.08	0.2042	0.2018	0.2032



Channel				26090	26340	26640	L	M	H
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	21.92	21.83	21.87	0.3908	0.3828	0.3864
10	QPSK	1	25	22.09	22.04	22.10	0.4064	0.4018	0.4074
10	QPSK	1	49	22.20	22.20	22.14	0.4169	0.4169	0.4111
10	QPSK	25	0	20.83	20.88	20.69	0.3041	0.3076	0.2944
10	QPSK	25	12	20.87	20.93	20.83	0.3069	0.3112	0.3041
10	QPSK	25	25	21.07	21.09	21.11	0.3214	0.3228	0.3243
10	QPSK	50	0	21.03	21.06	21.04	0.3184	0.3206	0.3192
10	16QAM	1	0	21.10	21.16	21.04	0.3236	0.3281	0.3192
10	16QAM	1	25	20.67	20.75	20.72	0.2931	0.2985	0.2965
10	16QAM	1	49	20.93	20.99	21.84	0.3112	0.3155	0.3837
10	16QAM	25	0	19.86	19.92	19.76	0.2432	0.2466	0.2377
10	16QAM	25	12	20.06	20.02	19.99	0.2547	0.2523	0.2506
10	16QAM	25	25	20.03	20.12	20.01	0.2529	0.2582	0.2518
10	16QAM	50	0	20.00	20.00	19.98	0.2512	0.2512	0.2500
10	64QAM	1	0	19.75	19.85	19.77	0.2371	0.2427	0.2382
10	64QAM	1	25	20.30	20.25	20.32	0.2692	0.2661	0.2704
10	64QAM	1	49	19.99	20.08	20.01	0.2506	0.2559	0.2518
10	64QAM	25	0	18.90	18.87	18.97	0.1950	0.1936	0.1982
10	64QAM	25	12	18.95	18.97	19.04	0.1972	0.1982	0.2014
10	64QAM	25	25	18.94	18.99	19.00	0.1968	0.1991	0.1995
10	64QAM	50	0	19.10	19.04	19.05	0.2042	0.2014	0.2018
Channel				26065	26340	26665	L	M	H
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	21.82	21.62	21.73	0.3819	0.3648	0.3741
5	QPSK	1	12	21.90	22.01	21.93	0.3890	0.3990	0.3917
5	QPSK	1	24	22.19	22.13	22.00	0.4159	0.4102	0.3981
5	QPSK	12	0	20.76	20.65	20.57	0.2992	0.2917	0.2864
5	QPSK	12	7	20.67	20.82	20.79	0.2931	0.3034	0.3013
5	QPSK	12	13	20.96	21.06	20.92	0.3133	0.3206	0.3105
5	QPSK	25	0	20.98	21.05	20.85	0.3148	0.3199	0.3055
5	16QAM	1	0	20.89	20.97	20.93	0.3083	0.3141	0.3112
5	16QAM	1	12	20.45	20.68	20.62	0.2786	0.2938	0.2897
5	16QAM	1	24	20.73	20.97	21.71	0.2972	0.3141	0.3724
5	16QAM	12	0	19.79	19.73	19.61	0.2393	0.2360	0.2296
5	16QAM	12	7	19.90	19.84	19.97	0.2455	0.2421	0.2495
5	16QAM	12	13	19.98	20.06	19.85	0.2500	0.2547	0.2427
5	16QAM	25	0	19.80	19.92	19.83	0.2399	0.2466	0.2415
5	64QAM	1	0	19.70	19.80	19.58	0.2344	0.2399	0.2280
5	64QAM	1	12	20.23	20.09	20.20	0.2649	0.2564	0.2630
5	64QAM	1	24	19.98	19.94	19.90	0.2500	0.2477	0.2455
5	64QAM	12	0	18.83	18.87	18.89	0.1919	0.1936	0.1945
5	64QAM	12	7	18.76	18.77	18.96	0.1888	0.1892	0.1977
5	64QAM	12	13	18.84	18.82	18.88	0.1923	0.1914	0.1941
5	64QAM	25	0	18.98	18.86	18.97	0.1986	0.1932	0.1982
Channel				26055	26340	26675	L	M	H
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	21.93	21.82	21.76	0.3917	0.3819	0.3767
3	QPSK	1	8	22.00	22.03	22.06	0.3981	0.4009	0.4036



3	QPSK	1	14	22.17	22.14	22.06	0.4140	0.4111	0.4036
3	QPSK	8	0	20.84	20.78	20.72	0.3048	0.3006	0.2965
3	QPSK	8	4	20.78	20.95	20.83	0.3006	0.3126	0.3041
3	QPSK	8	7	21.00	21.09	21.05	0.3162	0.3228	0.3199
3	QPSK	15	0	20.98	21.00	21.02	0.3148	0.3162	0.3177
3	16QAM	1	0	21.00	21.13	21.03	0.3162	0.3258	0.3184
3	16QAM	1	8	20.56	20.72	20.58	0.2858	0.2965	0.2871
3	16QAM	1	14	20.89	20.93	21.76	0.3083	0.3112	0.3767
3	16QAM	8	0	19.88	19.93	19.63	0.2443	0.2472	0.2307
3	16QAM	8	4	20.06	19.90	19.99	0.2547	0.2455	0.2506
3	16QAM	8	7	19.96	20.10	19.91	0.2489	0.2570	0.2460
3	16QAM	15	0	19.92	19.89	19.96	0.2466	0.2449	0.2489
3	64QAM	1	0	19.75	19.74	19.73	0.2371	0.2366	0.2360
3	64QAM	1	8	20.24	20.24	20.29	0.2655	0.2655	0.2685
3	64QAM	1	14	19.97	19.99	19.95	0.2495	0.2506	0.2483
3	64QAM	8	0	18.85	18.81	18.90	0.1928	0.1910	0.1950
3	64QAM	8	4	18.95	18.97	18.95	0.1972	0.1982	0.1972
3	64QAM	8	7	18.92	18.92	18.95	0.1959	0.1959	0.1972
3	64QAM	15	0	19.04	19.02	18.98	0.2014	0.2004	0.1986
Channel				26047	26340	26683	L	M	H
Frequency (MHz)				1850.7	1880	1914.3			
1.4	QPSK	1	0	21.89	21.74	21.78	0.3883	0.3749	0.3782
1.4	QPSK	1	3	21.98	21.94	22.06	0.3963	0.3926	0.4037
1.4	QPSK	1	5	22.16	22.12	22.00	0.4126	0.4091	0.3984
1.4	QPSK	3	0	20.79	20.85	20.68	0.3013	0.3055	0.2935
1.4	QPSK	3	1	20.81	20.84	20.76	0.3024	0.3050	0.2993
1.4	QPSK	3	3	21.08	21.03	21.07	0.3220	0.3183	0.3212
1.4	QPSK	6	0	20.94	20.99	20.95	0.3121	0.3154	0.3128
1.4	16QAM	1	0	21.00	21.13	20.94	0.3164	0.3260	0.3116
1.4	16QAM	1	3	20.60	20.76	20.59	0.2883	0.2994	0.2875
1.4	16QAM	1	5	20.85	20.89	21.84	0.3054	0.3087	0.3837
1.4	16QAM	3	0	19.81	19.82	19.74	0.2405	0.2411	0.2365
1.4	16QAM	3	1	20.05	19.96	19.89	0.2544	0.2490	0.2451
1.4	16QAM	3	3	19.95	20.11	19.99	0.2483	0.2578	0.2506
1.4	16QAM	6	0	19.92	20.01	19.88	0.2468	0.2517	0.2444
1.4	64QAM	1	0	19.66	19.74	19.79	0.2321	0.2364	0.2394
1.4	64QAM	1	3	20.30	20.27	20.26	0.2691	0.2674	0.2669
1.4	64QAM	1	5	19.91	20.04	19.91	0.2461	0.2534	0.2461
1.4	64QAM	3	0	18.86	18.80	18.89	0.1934	0.1906	0.1946
1.4	64QAM	3	1	18.95	18.93	18.94	0.1971	0.1965	0.1967
1.4	64QAM	3	3	18.85	18.90	19.02	0.1929	0.1948	0.2003
1.4	64QAM	6	0	18.98	19.05	18.97	0.1985	0.2017	0.1983



LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP (W)			
Channel				26790	26865	26915	26965	CH26790	L	M	H
Frequency (MHz)				824	831.5	836.5	841.5				
15	QPSK	1	0	22.69	22.51	22.78	22.41	0.3192	0.3062	0.3258	0.2992
15	QPSK	1	37	23.35	23.24	23.36	23.19	0.3715	0.3622	0.3724	0.3581
15	QPSK	1	74	22.44	22.47	22.50	22.00	0.3013	0.3034	0.3055	0.2723
15	QPSK	36	0	21.49	21.46	21.52	21.38	0.2421	0.2404	0.2438	0.2360
15	QPSK	36	20	21.43	21.36	21.44	21.29	0.2388	0.2350	0.2393	0.2312
15	QPSK	36	39	21.55	21.42	21.49	21.00	0.2455	0.2382	0.2421	0.2163
15	QPSK	75	0	21.51	21.41	21.44	21.38	0.2432	0.2377	0.2393	0.2360
15	16QAM	1	0	21.35	21.38	21.28	21.36	0.2344	0.0834	0.2307	0.2350
15	16QAM	1	37	21.97	21.91	21.87	21.82	0.2704	0.2667	0.2642	0.2612
15	16QAM	1	74	20.96	20.93	20.92	20.96	0.2143	0.2128	0.2123	0.2143
15	16QAM	36	0	20.52	20.41	20.43	20.53	0.1936	0.1888	0.1897	0.1941
15	16QAM	36	20	20.37	20.32	20.35	20.41	0.1871	0.1849	0.1862	0.1888
15	16QAM	36	39	20.38	20.21	20.37	20.46	0.1875	0.1803	0.1871	0.1910
15	16QAM	75	0	20.45	20.35	20.41	20.48	0.1905	0.1862	0.1888	0.1919
15	64QAM	1	0	20.97	20.92	20.96	20.94	0.2148	0.2123	0.2143	0.2133
15	64QAM	1	37	20.60	20.48	20.56	20.50	0.1972	0.1919	0.1954	0.1928
15	64QAM	1	74	19.77	19.73	19.69	19.58	0.1629	0.1614	0.1600	0.1560
15	64QAM	36	0	19.50	19.31	19.48	19.37	0.1531	0.1466	0.1524	0.1486
15	64QAM	36	20	19.50	19.35	19.42	19.33	0.1531	0.1479	0.1503	0.1472
15	64QAM	36	39	19.71	19.45	19.63	19.51	0.1607	0.1514	0.1578	0.1535
15	64QAM	75	0	19.31	19.16	19.24	19.37	0.1466	0.1416	0.1442	0.1486
Channel				/	26840	26915	26990	/	L	M	H
Frequency (MHz)					829	836.5	844				
10	QPSK	1	0	/	22.42	22.67	22.37	/	0.2999	0.3177	0.2965
10	QPSK	1	25		23.21	23.24	23.08		0.3597	0.3622	0.3491
10	QPSK	1	49		22.42	22.38	21.94		0.2999	0.2972	0.2685
10	QPSK	25	0		21.41	21.45	21.34		0.2377	0.2399	0.2339
10	QPSK	25	12		21.34	21.40	21.24		0.2339	0.2371	0.2286
10	QPSK	25	25		21.31	21.46	20.93		0.2323	0.2404	0.2128
10	QPSK	50	0		21.28	21.29	21.36		0.2307	0.2312	0.2350
10	16QAM	1	0		21.35	21.17	21.29		0.2344	0.2249	0.2312
10	16QAM	1	25		21.88	21.76	21.80		0.2649	0.2576	0.2600
10	16QAM	1	49		20.81	20.85	20.91		0.2070	0.2089	0.2118
10	16QAM	25	0		20.33	20.31	20.42		0.1854	0.1845	0.1892
10	16QAM	25	12		20.18	20.22	20.29		0.1791	0.1807	0.1837
10	16QAM	25	25		20.13	20.26	20.33		0.1770	0.1824	0.1854
10	16QAM	50	0		20.26	20.27	20.43		0.1824	0.1828	0.1897
10	64QAM	1	0		20.87	20.85	20.80		0.2099	0.2089	0.2065
10	64QAM	1	25		20.41	20.42	20.43		0.1888	0.1892	0.1897
10	64QAM	1	49		19.66	19.61	19.47		0.1589	0.1570	0.1521
10	64QAM	25	0		19.28	19.42	19.28		0.1455	0.1503	0.1455
10	64QAM	25	12		19.30	19.29	19.27		0.1462	0.1459	0.1452
10	64QAM	25	25		19.38	19.57	19.46		0.1489	0.1556	0.1517
10	64QAM	50	0		19.11	19.21	19.28		0.1400	0.1432	0.1455



Channel				/	26815	26915	27015	/	L	M	H
Frequency (MHz)					826.5	836.5	846.5				
5	QPSK	1	0	/	22.20	22.39	22.07	/	0.2851	0.2979	0.2767
5	QPSK	1	12		22.93	23.12	22.85		0.3373	0.3524	0.3311
5	QPSK	1	24		22.19	22.17	21.76		0.2844	0.2831	0.2576
5	QPSK	12	0		21.19	21.29	21.07		0.2259	0.2312	0.2198
5	QPSK	12	7		21.11	21.17	21.00		0.2218	0.2249	0.2163
5	QPSK	12	13		21.16	21.25	20.69		0.2244	0.2291	0.2014
5	QPSK	25	0		21.07	21.20	21.05		0.2198	0.2265	0.2188
5	16QAM	1	0		21.12	21.04	21.12		0.2223	0.2183	0.2223
5	16QAM	1	12		21.68	21.63	21.56		0.2529	0.2500	0.2460
5	16QAM	1	24		20.59	20.62	20.64		0.1968	0.1982	0.1991
5	16QAM	12	0		20.07	20.09	20.18		0.1746	0.1754	0.1791
5	16QAM	12	7		20.01	20.12	20.14		0.1722	0.1766	0.1774
5	16QAM	12	13		19.97	20.15	20.12		0.1706	0.1778	0.1766
5	16QAM	25	0		20.05	20.13	20.16		0.1738	0.1770	0.1782
5	64QAM	1	0		20.68	20.73	20.64		0.2009	0.2032	0.1991
5	64QAM	1	12		20.15	20.27	20.23		0.1778	0.1828	0.1811
5	64QAM	1	24		19.41	19.42	19.35		0.1500	0.1503	0.1479
5	64QAM	12	0		19.01	19.25	19.10		0.1368	0.1445	0.1396
5	64QAM	12	7		19.09	19.09	19.01		0.1393	0.1393	0.1368
5	64QAM	12	13		19.10	19.34	19.26		0.1396	0.1476	0.1449
5	64QAM	25	0		18.83	18.99	19.04		0.1312	0.1361	0.1377
Channel				/	26815	26915	27025	/	L	M	H
Frequency (MHz)					825.5	836.5	847.5				
3	QPSK	1	0	/	22.27	22.46	22.11	/	0.2897	0.3027	0.2793
3	QPSK	1	8		22.99	23.09	22.93		0.3420	0.3499	0.3373
3	QPSK	1	14		22.30	22.27	21.75		0.2917	0.2897	0.2570
3	QPSK	8	0		21.23	21.33	21.12		0.2280	0.2333	0.2223
3	QPSK	8	4		21.12	21.25	21.04		0.2223	0.2291	0.2183
3	QPSK	8	7		21.19	21.19	20.78		0.2259	0.2259	0.2056
3	QPSK	15	0		21.21	21.25	21.21		0.2270	0.2291	0.2270
3	16QAM	1	0		21.20	21.01	21.15		0.2265	0.2168	0.2239
3	16QAM	1	8		21.72	21.59	21.54		0.2553	0.2477	0.2449
3	16QAM	1	14		20.71	20.66	20.69		0.2023	0.2000	0.2014
3	16QAM	8	0		20.16	20.17	20.35		0.1782	0.1786	0.1862
3	16QAM	8	4		20.12	20.10	20.14		0.1766	0.1758	0.1774
3	16QAM	8	7		20.04	20.17	20.28		0.1734	0.1786	0.1832
3	16QAM	15	0		20.14	20.17	20.23		0.1774	0.1786	0.1811
3	64QAM	1	0		20.68	20.70	20.70		0.2009	0.2018	0.2018
3	64QAM	1	8		20.19	20.28	20.22		0.1795	0.1832	0.1807
3	64QAM	1	14		19.50	19.48	19.31		0.1531	0.1524	0.1466
3	64QAM	8	0		19.06	19.21	19.15		0.1384	0.1432	0.1413
3	64QAM	8	4		19.10	19.22	19.06		0.1396	0.1435	0.1384
3	64QAM	8	7		19.25	19.37	19.34		0.1445	0.1486	0.1476
3	64QAM	15	0		18.91	19.04	19.09		0.1337	0.1377	0.1393
Channel				/	26797	26915	27033	/	L	M	H
Frequency (MHz)					824.7	836.5	848.3				
1.4	QPSK	1	0	/	22.23	22.42	22.18	/	0.2871	0.2999	0.2838
1.4	QPSK	1	3		22.99	23.15	22.90		0.3420	0.3548	0.3350



1.4	QPSK	1	5		22.18	22.20	21.81		0.2838	0.2851	0.2606
1.4	QPSK	3	0		21.29	21.29	21.15		0.2312	0.2312	0.2239
1.4	QPSK	3	1		21.18	21.20	21.03		0.2254	0.2265	0.2178
1.4	QPSK	3	3		21.18	21.25	20.75		0.2254	0.2291	0.2042
1.4	QPSK	6	0		21.19	21.20	21.17		0.2259	0.2265	0.2249
1.4	16QAM	1	0		21.10	21.08	21.10		0.2213	0.2203	0.2213
1.4	16QAM	1	3		21.65	21.61	21.55		0.2512	0.2489	0.2455
1.4	16QAM	1	5		20.66	20.74	20.69		0.2000	0.2037	0.2014
1.4	16QAM	3	0		20.17	20.21	20.30		0.1786	0.1803	0.1841
1.4	16QAM	3	1		20.09	20.07	20.18		0.1754	0.1746	0.1791
1.4	16QAM	3	3		19.96	20.13	20.19		0.1702	0.1770	0.1795
1.4	16QAM	6	0		20.08	20.15	20.18		0.1750	0.1778	0.1791
1.4	64QAM	1	0		20.74	20.71	20.71		0.2037	0.2023	0.2023
1.4	64QAM	1	3		20.27	20.34	20.28		0.1828	0.1858	0.1832
1.4	64QAM	1	5		19.53	19.51	19.32		0.1542	0.1535	0.1469
1.4	64QAM	3	0		19.04	19.23	19.08		0.1377	0.1439	0.1390
1.4	64QAM	3	1		19.14	19.19	19.10		0.1409	0.1426	0.1396
1.4	64QAM	3	3		19.18	19.44	19.26		0.1422	0.1510	0.1449
1.4	64QAM	6	0		18.98	19.03	19.11		0.1358	0.1374	0.1400

LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP (W)		
Channel				132072	132322	132572	L	M	H
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	22.63	23.28	23.45	0.4603	0.5346	0.5559
20	QPSK	1	49	23.75	23.50	23.27	0.5957	0.5623	0.5333
20	QPSK	1	99	23.48	23.62	23.19	0.5598	0.5781	0.5236
20	QPSK	50	0	22.32	22.54	22.06	0.4285	0.4508	0.4036
20	QPSK	50	24	22.10	22.32	22.05	0.4074	0.4285	0.4027
20	QPSK	50	50	22.14	22.46	22.07	0.4111	0.4426	0.4046
20	QPSK	100	0	22.01	22.40	22.06	0.3990	0.4365	0.4036
20	16QAM	1	0	21.82	22.02	21.95	0.3819	0.3999	0.3936
20	16QAM	1	49	21.89	22.27	21.99	0.3882	0.4236	0.3972
20	16QAM	1	99	21.98	22.35	22.04	0.3963	0.4315	0.4018
20	16QAM	50	0	21.02	21.33	21.10	0.3177	0.3412	0.3236
20	16QAM	50	24	21.04	21.35	20.92	0.3192	0.3428	0.3105
20	16QAM	50	50	21.07	21.36	21.05	0.3214	0.3436	0.3199
20	16QAM	100	0	20.82	21.18	21.13	0.3034	0.3296	0.3258
20	64QAM	1	0	21.13	21.38	21.60	0.3258	0.3451	0.3631
20	64QAM	1	49	21.43	21.97	21.71	0.3491	0.3954	0.3724
20	64QAM	1	99	21.39	21.71	21.50	0.3459	0.3724	0.3548
20	64QAM	50	0	20.20	20.44	20.23	0.2630	0.2780	0.2649
20	64QAM	50	24	20.23	20.39	19.89	0.2649	0.2748	0.2449
20	64QAM	50	50	20.58	20.48	19.94	0.2871	0.2805	0.2477
20	64QAM	100	0	20.20	20.35	20.20	0.2630	0.2723	0.2630
Channel				132047	132322	132597	L	M	H
Frequency (MHz)				1717.5	1745	1772.5			



15	QPSK	1	0	22.35	23.03	23.14	0.4315	0.5047	0.5176
15	QPSK	1	37	23.32	23.21	22.91	0.5395	0.5260	0.4909
15	QPSK	1	74	23.17	23.31	22.94	0.5212	0.5383	0.4943
15	QPSK	36	0	22.00	22.19	21.78	0.3981	0.4159	0.3784
15	QPSK	36	20	21.81	22.03	21.71	0.3811	0.4009	0.3724
15	QPSK	36	39	21.88	22.14	21.84	0.3873	0.4111	0.3837
15	QPSK	75	0	21.77	22.12	21.82	0.3776	0.4093	0.3819
15	16QAM	1	0	21.57	21.69	21.68	0.3606	0.3707	0.3698
15	16QAM	1	37	21.54	21.98	21.65	0.3581	0.3963	0.3673
15	16QAM	1	74	21.64	22.09	21.81	0.3664	0.4064	0.3811
15	16QAM	36	0	20.69	21.01	20.87	0.2944	0.3170	0.3069
15	16QAM	36	20	20.77	21.06	20.63	0.2999	0.3206	0.2904
15	16QAM	36	39	20.83	21.09	20.81	0.3041	0.3228	0.3027
15	16QAM	75	0	20.52	20.90	20.87	0.2831	0.3090	0.3069
15	64QAM	1	0	20.87	21.08	21.36	0.3069	0.3221	0.3436
15	64QAM	1	37	21.11	21.68	21.44	0.3243	0.3698	0.3499
15	64QAM	1	74	21.13	21.36	21.15	0.3258	0.3436	0.3273
15	64QAM	36	0	19.91	20.12	19.99	0.2460	0.2582	0.2506
15	64QAM	36	20	19.87	20.14	19.65	0.2438	0.2594	0.2317
15	64QAM	36	39	20.26	20.16	19.61	0.2667	0.2606	0.2296
15	64QAM	75	0	19.96	20.05	19.92	0.2489	0.2541	0.2466
Channel				132022	132322	132622	L	M	H
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	22.41	23.13	23.31	0.4375	0.5164	0.5383
10	QPSK	1	25	23.45	23.35	23.10	0.5559	0.5433	0.5129
10	QPSK	1	49	23.35	23.42	23.05	0.5433	0.5521	0.5070
10	QPSK	25	0	22.18	22.37	21.85	0.4150	0.4335	0.3846
10	QPSK	25	12	21.89	22.17	21.92	0.3882	0.4140	0.3908
10	QPSK	25	25	21.99	22.30	21.89	0.3972	0.4266	0.3882
10	QPSK	50	0	21.80	22.28	21.83	0.3802	0.4246	0.3828
10	16QAM	1	0	21.63	21.81	21.83	0.3656	0.3811	0.3828
10	16QAM	1	25	21.65	22.05	21.75	0.3673	0.4027	0.3758
10	16QAM	1	49	21.75	22.21	21.91	0.3758	0.4178	0.3899
10	16QAM	25	0	20.78	21.17	20.90	0.3006	0.3289	0.3090
10	16QAM	25	12	20.85	21.13	20.68	0.3055	0.3258	0.2938
10	16QAM	25	25	20.89	21.22	20.83	0.3083	0.3327	0.3041
10	16QAM	50	0	20.61	20.94	20.98	0.2891	0.3119	0.3148
10	64QAM	1	0	20.96	21.18	21.39	0.3133	0.3296	0.3459
10	64QAM	1	25	21.23	21.76	21.50	0.3334	0.3767	0.3548
10	64QAM	1	49	21.20	21.58	21.36	0.3311	0.3614	0.3436
10	64QAM	25	0	20.02	20.26	20.01	0.2523	0.2667	0.2518
10	64QAM	25	12	19.99	20.18	19.66	0.2506	0.2618	0.2323
10	64QAM	25	25	20.38	20.28	19.82	0.2742	0.2679	0.2410
10	64QAM	50	0	19.96	20.17	20.04	0.2489	0.2612	0.2535
Channel				131997	132322	132647	L	M	H
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	22.56	23.10	23.28	0.4525	0.5128	0.5347
5	QPSK	1	12	23.57	23.34	23.07	0.5718	0.5422	0.5098
5	QPSK	1	24	23.38	23.54	23.03	0.5468	0.5674	0.5052
5	QPSK	12	0	22.22	22.38	21.94	0.4187	0.4350	0.3923



5	QPSK	12	7	21.93	22.20	21.89	0.3916	0.4169	0.3882
5	QPSK	12	13	22.02	22.29	21.92	0.3998	0.4259	0.3911
5	QPSK	25	0	21.93	22.22	21.93	0.3913	0.4184	0.3914
5	16QAM	1	0	21.73	21.86	21.85	0.3744	0.3853	0.3846
5	16QAM	1	12	21.70	22.18	21.82	0.3719	0.4154	0.3822
5	16QAM	1	24	21.84	22.23	21.97	0.3839	0.4196	0.3950
5	16QAM	12	0	20.90	21.13	20.90	0.3088	0.3259	0.3093
5	16QAM	12	7	20.90	21.26	20.80	0.3089	0.3356	0.3020
5	16QAM	12	13	20.97	21.25	20.87	0.3138	0.3346	0.3072
5	16QAM	25	0	20.62	21.09	20.93	0.2898	0.3229	0.3112
5	64QAM	1	0	20.98	21.22	21.40	0.3151	0.3328	0.3468
5	64QAM	1	12	21.25	21.77	21.62	0.3346	0.3777	0.3649
5	64QAM	1	24	21.30	21.55	21.36	0.3389	0.3591	0.3438
5	64QAM	12	0	20.08	20.26	20.11	0.2556	0.2665	0.2579
5	64QAM	12	7	20.06	20.30	19.79	0.2545	0.2692	0.2392
5	64QAM	12	13	20.43	20.34	19.77	0.2775	0.2715	0.2383
5	64QAM	25	0	20.01	20.20	20.06	0.2516	0.2630	0.2548
Channel				131987	132322	132657	L	M	H
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	22.38	23.08	23.28	0.4345	0.5105	0.5346
3	QPSK	1	8	23.40	23.24	22.98	0.5495	0.5297	0.4989
3	QPSK	1	14	23.24	23.34	22.98	0.5297	0.5420	0.4989
3	QPSK	8	0	22.06	22.34	21.80	0.4036	0.4305	0.3802
3	QPSK	8	4	21.87	22.10	21.87	0.3864	0.4074	0.3864
3	QPSK	8	7	21.88	22.27	21.88	0.3873	0.4236	0.3873
3	QPSK	15	0	21.75	22.20	21.89	0.3758	0.4169	0.3882
3	16QAM	1	0	21.54	21.84	21.68	0.3581	0.3837	0.3698
3	16QAM	1	8	21.68	21.99	21.80	0.3698	0.3972	0.3802
3	16QAM	1	14	21.80	22.07	21.78	0.3802	0.4046	0.3784
3	16QAM	8	0	20.74	21.12	20.88	0.2979	0.3251	0.3076
3	16QAM	8	4	20.83	21.07	20.70	0.3041	0.3214	0.2951
3	16QAM	8	7	20.77	21.17	20.81	0.2999	0.3289	0.3027
3	16QAM	15	0	20.57	20.98	20.88	0.2864	0.3148	0.3076
3	64QAM	1	0	20.87	21.19	21.43	0.3069	0.3304	0.3491
3	64QAM	1	8	21.16	21.76	21.48	0.3281	0.3767	0.3532
3	64QAM	1	14	21.14	21.48	21.28	0.3266	0.3532	0.3373
3	64QAM	8	0	19.98	20.27	19.99	0.2500	0.2673	0.2506
3	64QAM	8	4	19.97	20.19	19.65	0.2495	0.2624	0.2317
3	64QAM	8	7	20.40	20.21	19.72	0.2754	0.2636	0.2355
3	64QAM	15	0	19.93	20.06	20.00	0.2472	0.2547	0.2512
Channel				131979	132322	132665	L	M	H
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	22.38	23.08	23.28	0.4345	0.5105	0.5346
1.4	QPSK	1	3	23.40	23.24	22.98	0.5495	0.5297	0.4989
1.4	QPSK	1	5	23.24	23.34	22.98	0.5297	0.5420	0.4989
1.4	QPSK	3	0	22.06	22.34	22.01	0.4036	0.4305	0.3990
1.4	QPSK	3	1	22.03	22.10	22.05	0.4009	0.4074	0.4027
1.4	QPSK	3	3	22.06	22.27	22.16	0.4036	0.4236	0.4130
1.4	QPSK	6	0	21.75	22.20	21.89	0.3758	0.4169	0.3882
1.4	16QAM	1	0	21.54	21.84	21.68	0.3581	0.3837	0.3698

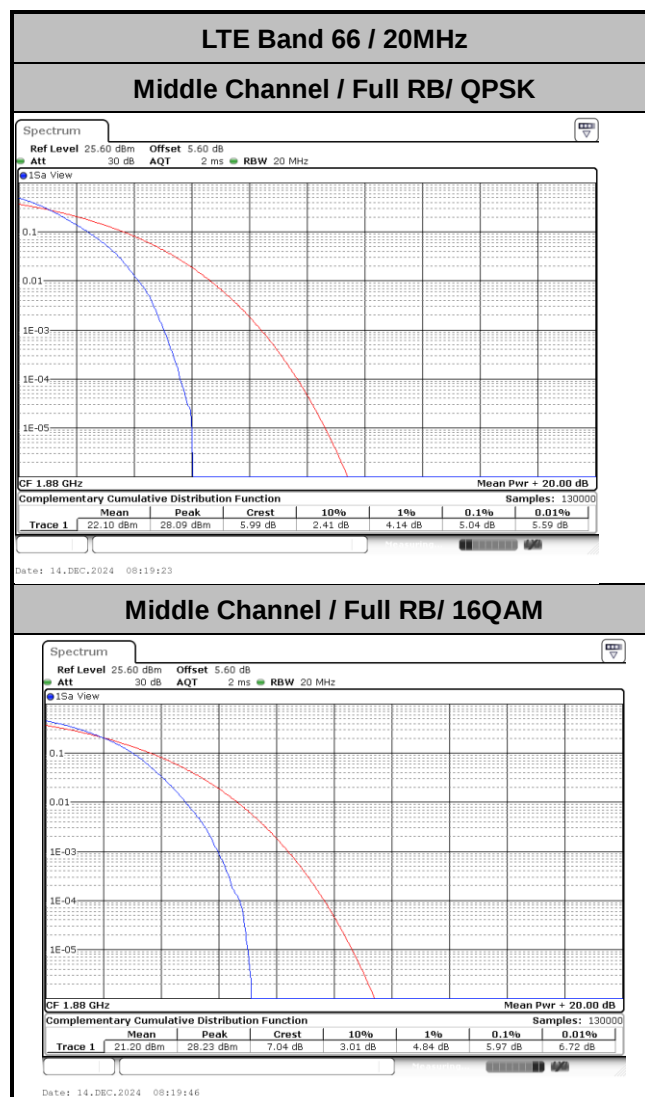


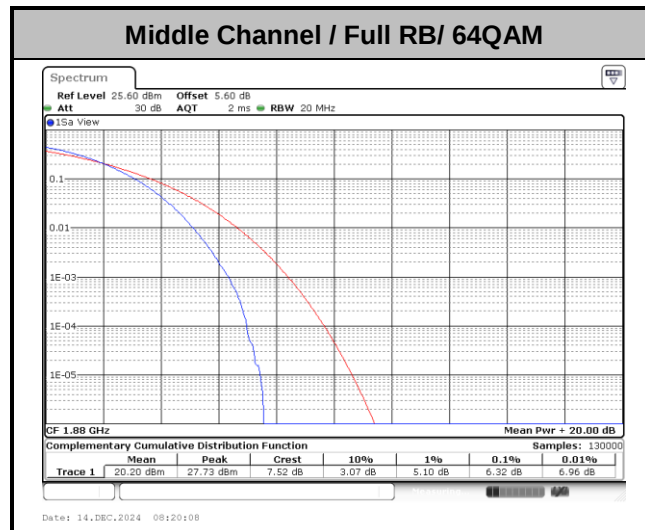
1.4	16QAM	1	3	21.68	21.99	21.80	0.3698	0.3972	0.3802
1.4	16QAM	1	5	21.80	22.07	21.78	0.3802	0.4046	0.3784
1.4	16QAM	3	0	20.74	21.12	20.88	0.2979	0.3251	0.3076
1.4	16QAM	3	1	20.83	21.07	20.70	0.3041	0.3214	0.2951
1.4	16QAM	3	3	20.77	21.17	20.81	0.2999	0.3289	0.3027
1.4	16QAM	6	0	20.57	20.98	20.88	0.2864	0.3148	0.3076
1.4	64QAM	1	0	20.87	21.19	21.43	0.3069	0.3304	0.3491
1.4	64QAM	1	3	21.16	21.76	21.48	0.3281	0.3767	0.3532
1.4	64QAM	1	5	21.14	21.48	21.28	0.3266	0.3532	0.3373
1.4	64QAM	3	0	19.98	20.27	19.99	0.2500	0.2673	0.2506
1.4	64QAM	3	1	19.97	20.19	19.65	0.2495	0.2624	0.2317
1.4	64QAM	3	3	20.40	20.21	20.08	0.2754	0.2636	0.2559
1.4	64QAM	6	0	19.93	20.06	20.00	0.2472	0.2547	0.2512

LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.97	6.32	PASS





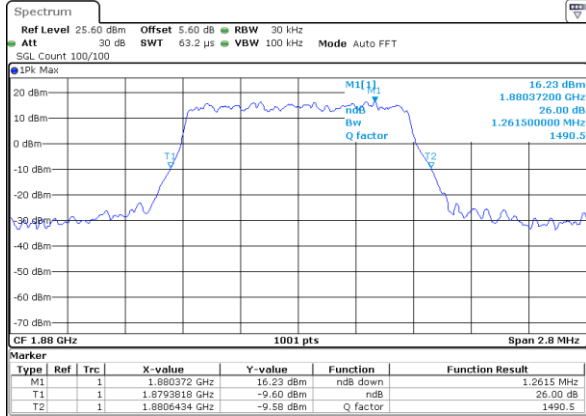
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.26	1.28
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.0	2.99
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	5.01
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.77
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.09	14.48
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.14	18.82

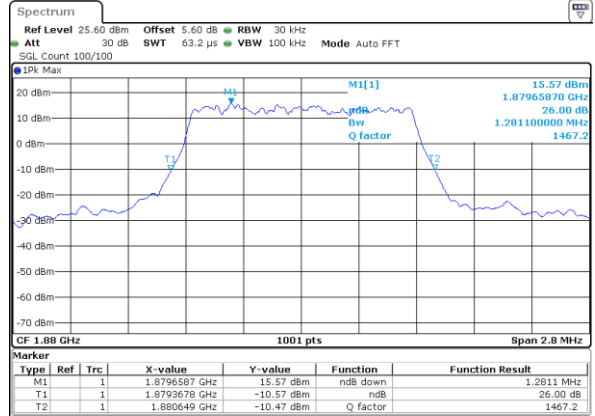


LTE Band 2

Middle Channel / 1.4MHz / QPSK

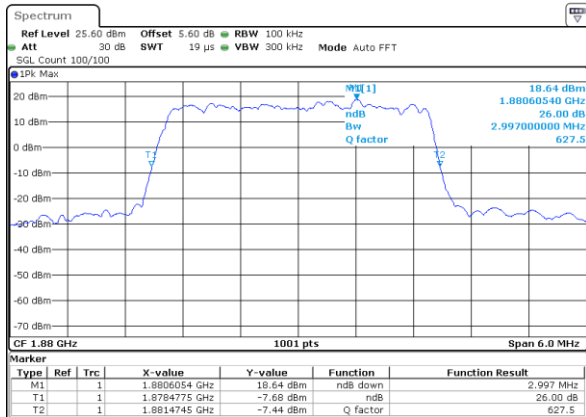


Middle Channel / 1.4MHz / 16QAM

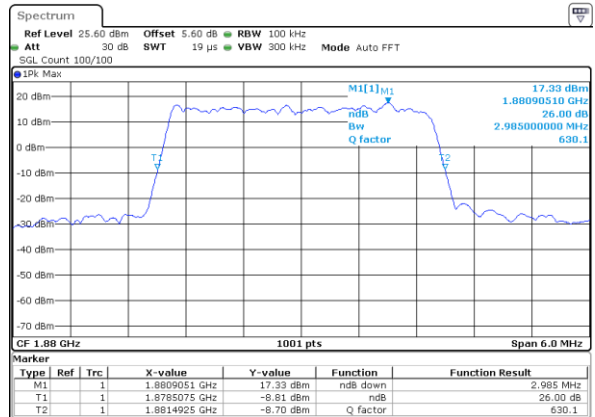


LTE Band 2

Middle Channel / 3MHz / QPSK

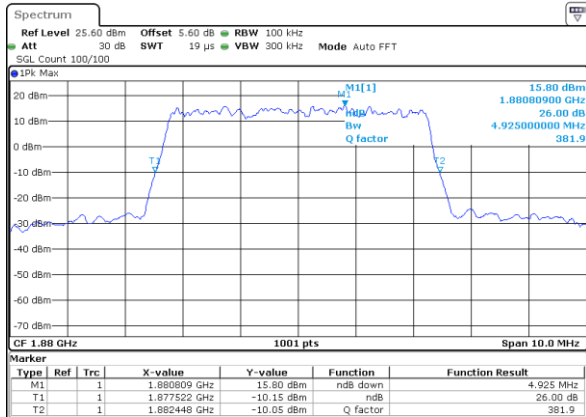


Middle Channel / 3MHz / 16QAM

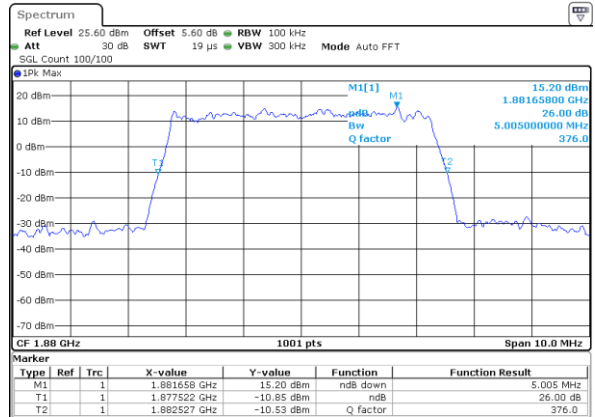


LTE Band 2

Middle Channel / 5MHz / QPSK



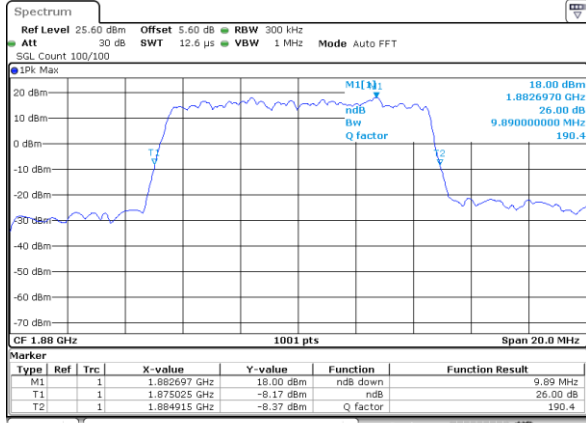
Middle Channel / 5MHz / 16QAM





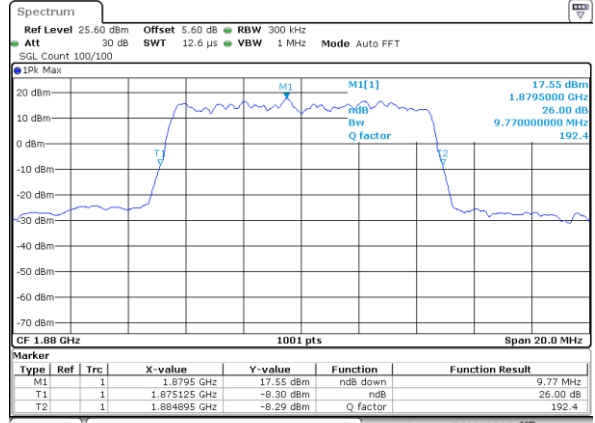
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 14.DEC.2024 08:40:32

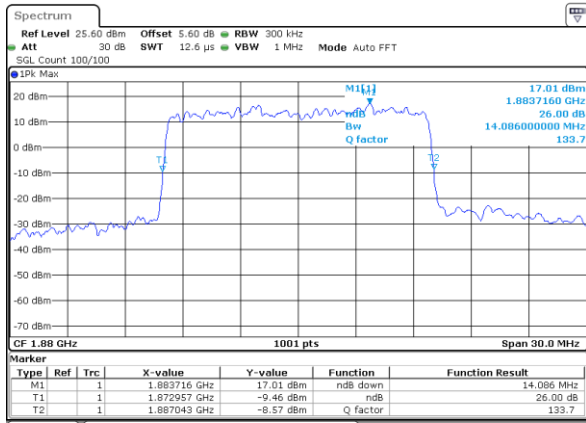
Middle Channel / 10MHz / 16QAM



Date: 14.DEC.2024 08:40:53

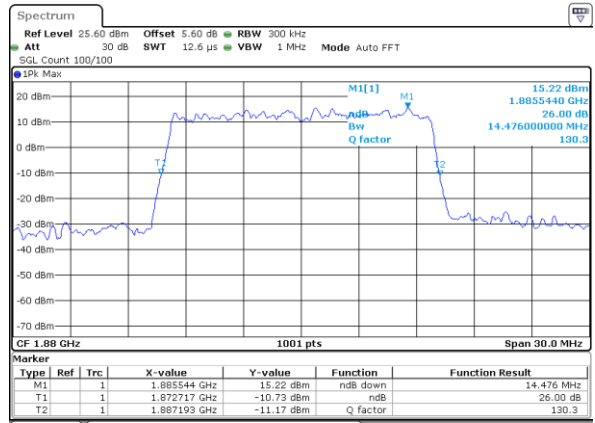
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 14.DEC.2024 08:41:56

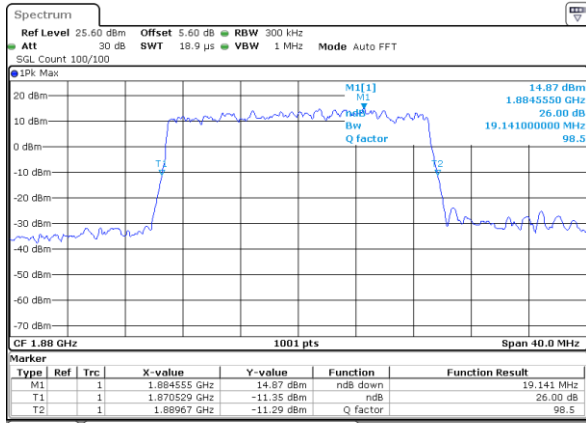
Middle Channel / 15MHz / 16QAM



Date: 14.DEC.2024 08:42:17

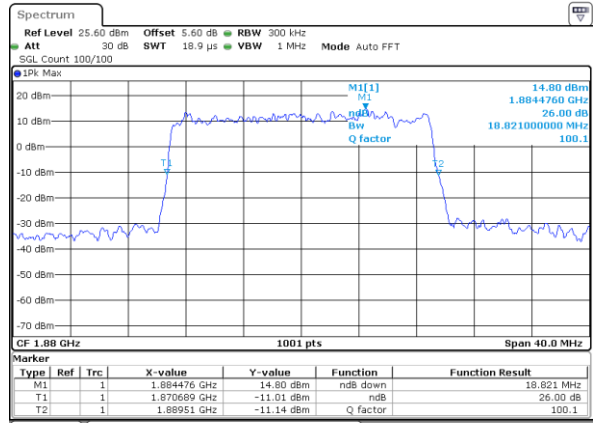
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 14.DEC.2024 08:18:19

Middle Channel / 20MHz / 16QAM



Date: 14.DEC.2024 08:18:40

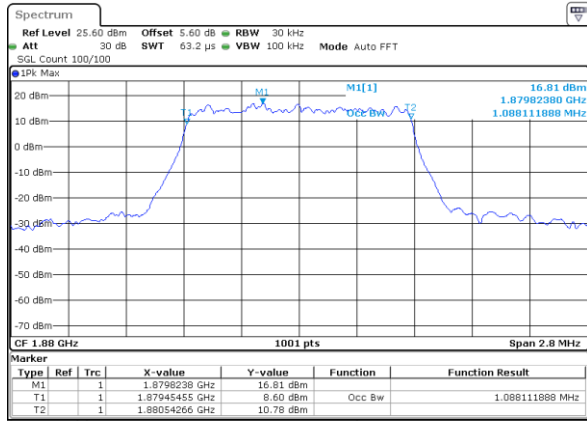
**Occupied Bandwidth**

Mode	LTE Band 2 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.08
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.73
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.48
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	8.99
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.37	13.46
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.90



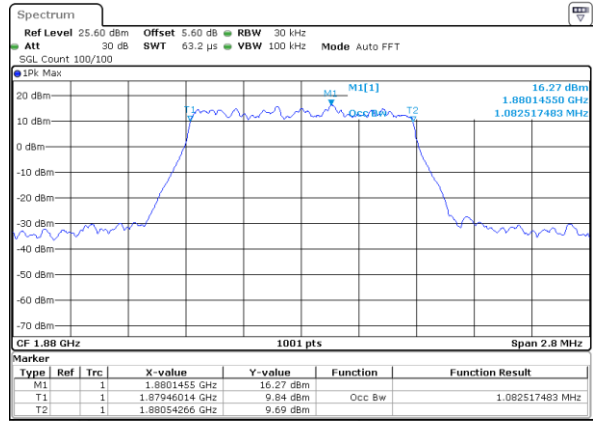
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 14.DEC.2024 08:35:57

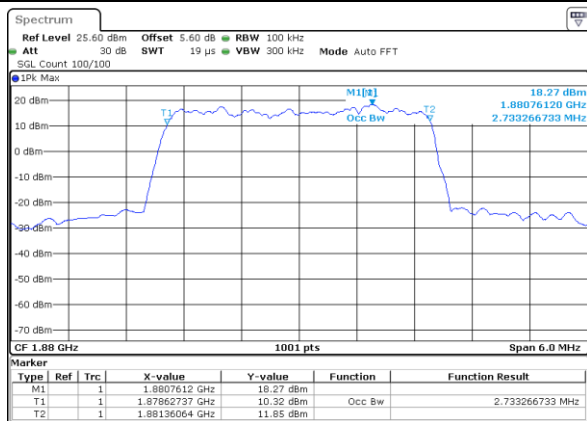
Middle Channel / 1.4MHz / 16QAM



Date: 14.DEC.2024 08:37:00

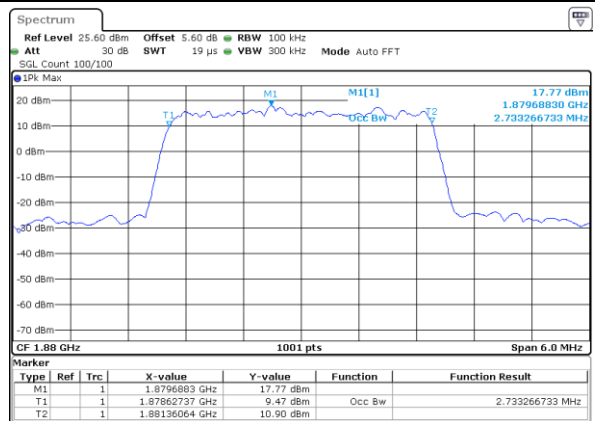
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 14.DEC.2024 08:37:22

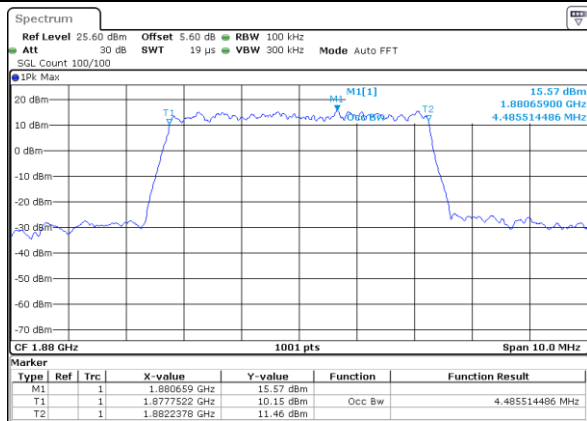
Middle Channel / 3MHz / 16QAM



Date: 14.DEC.2024 08:38:25

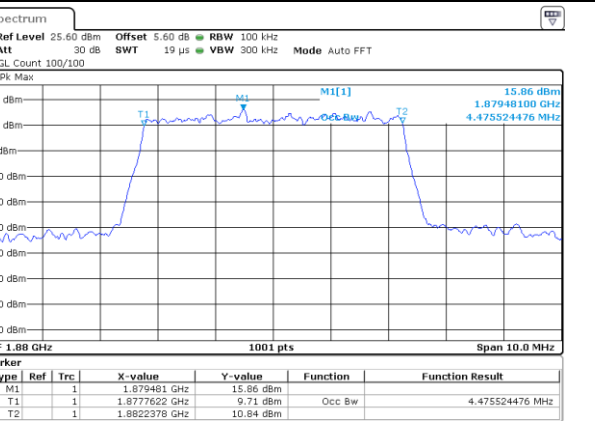
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 14.DEC.2024 08:38:46

Middle Channel / 5MHz / 16QAM

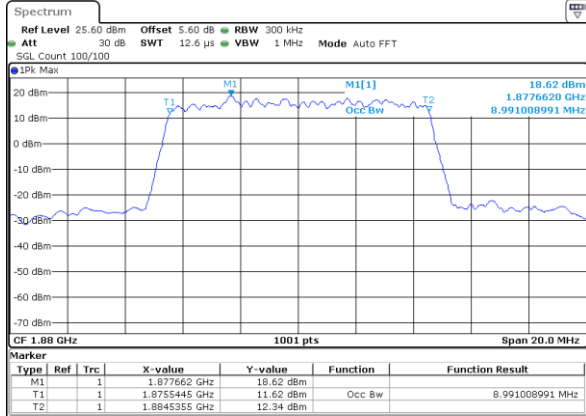


Date: 14.DEC.2024 08:39:49



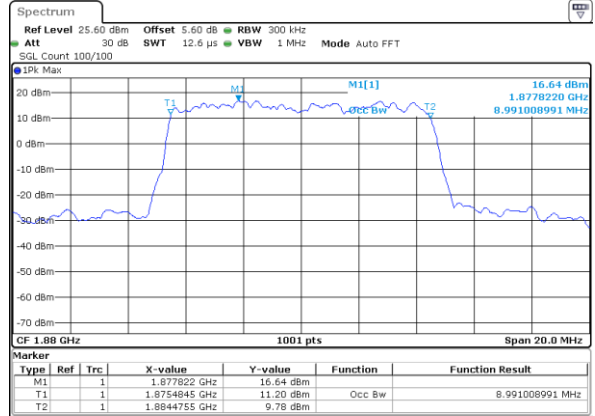
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 14.DEC.2024 08:40:11

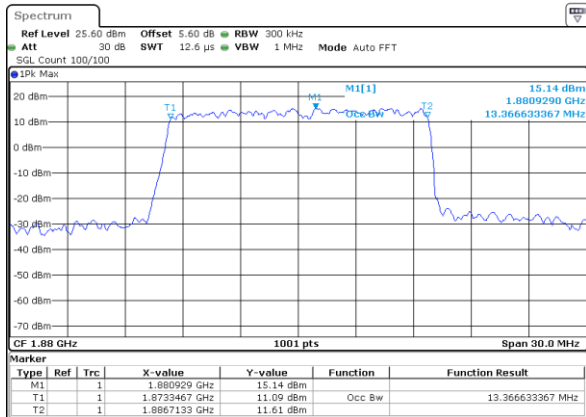
Middle Channel / 10MHz / 16QAM



Date: 14.DEC.2024 08:41:14

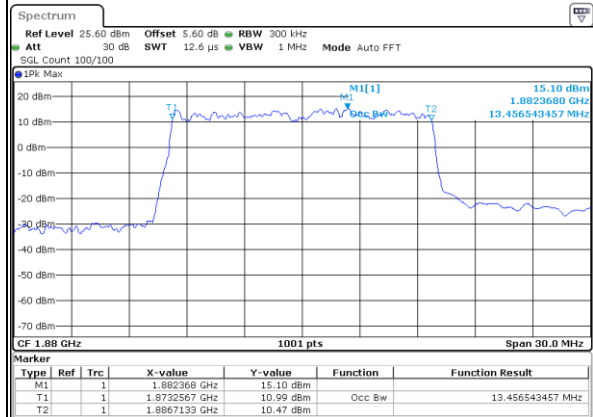
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 14.DEC.2024 08:41:35

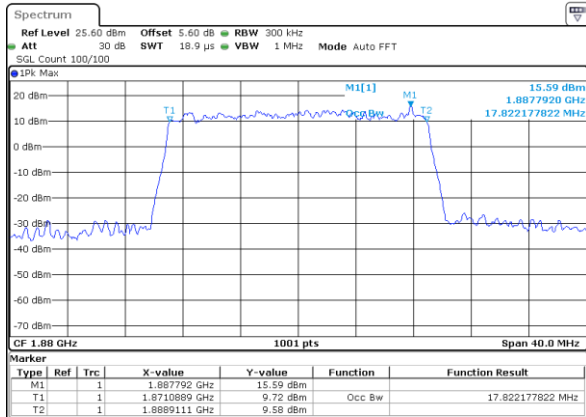
Middle Channel / 15MHz / 16QAM



Date: 14.DEC.2024 08:42:38

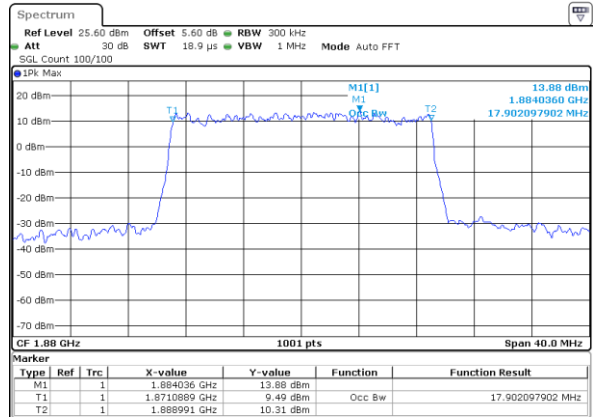
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 14.DEC.2024 08:17:57

Middle Channel / 20MHz / 16QAM



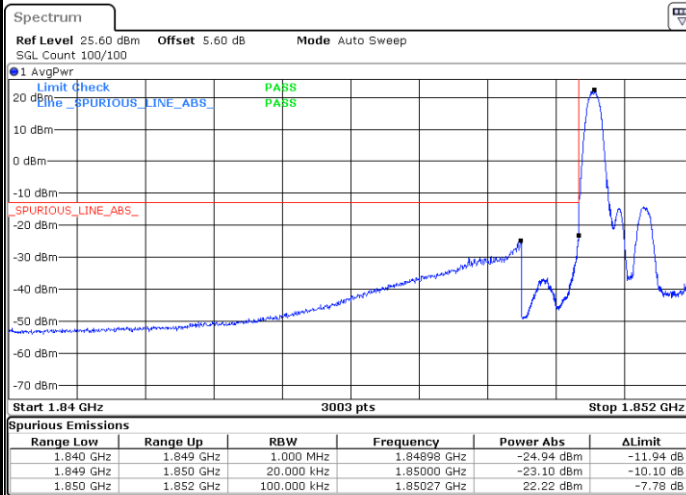
Date: 14.DEC.2024 08:19:01



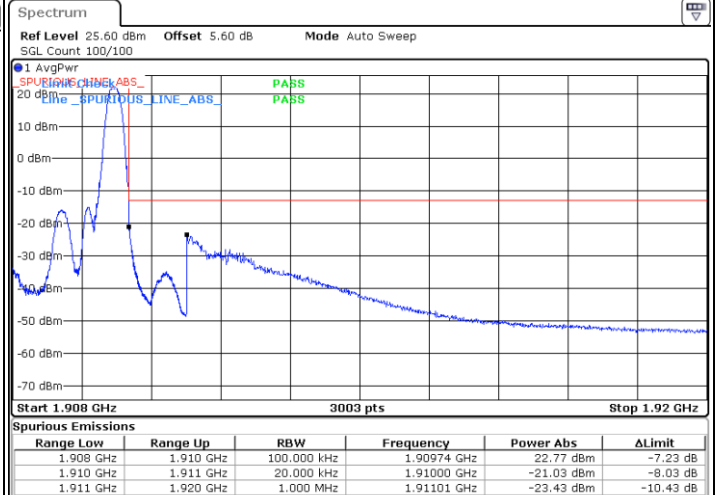
Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

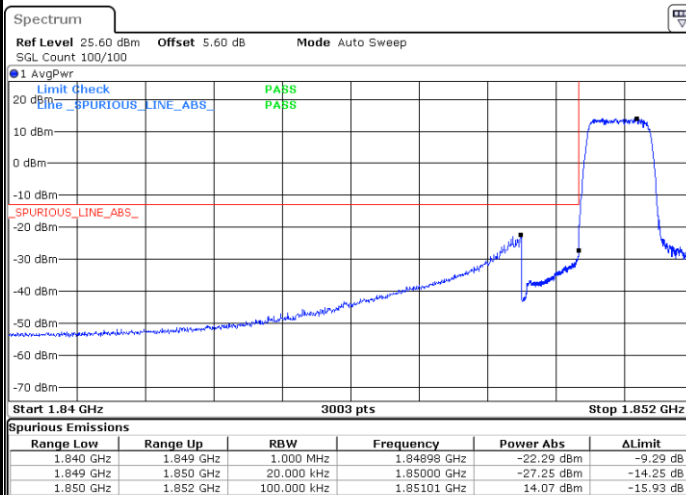
Lowest Band Edge / 1RB



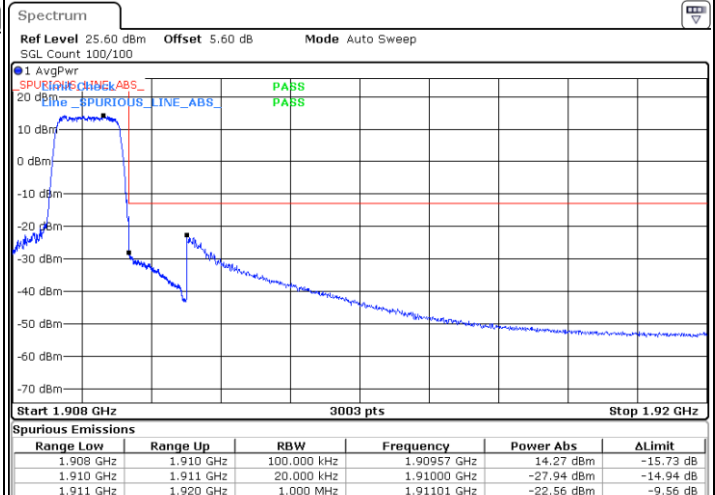
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



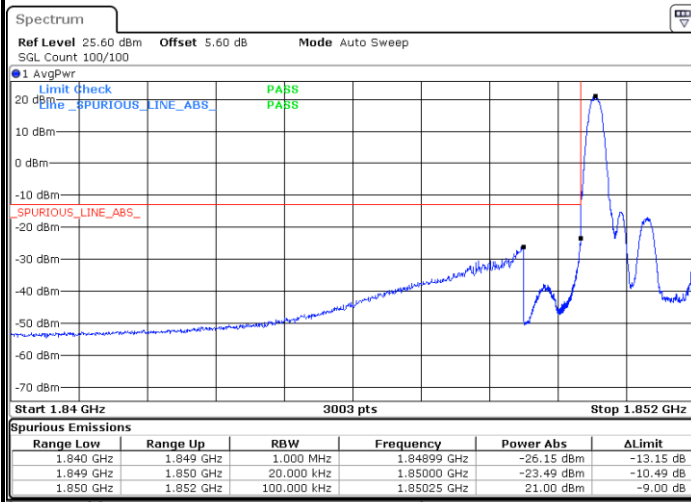
Highest Band Edge / Full RB



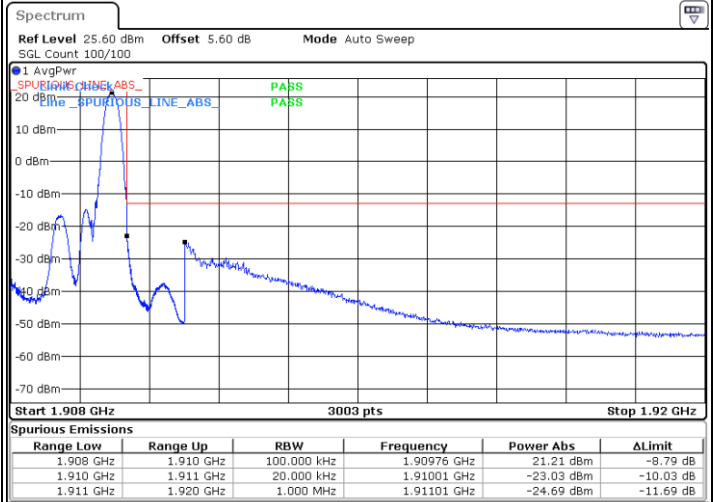


LTE Band 2 / 1.4MHz / 16QAM

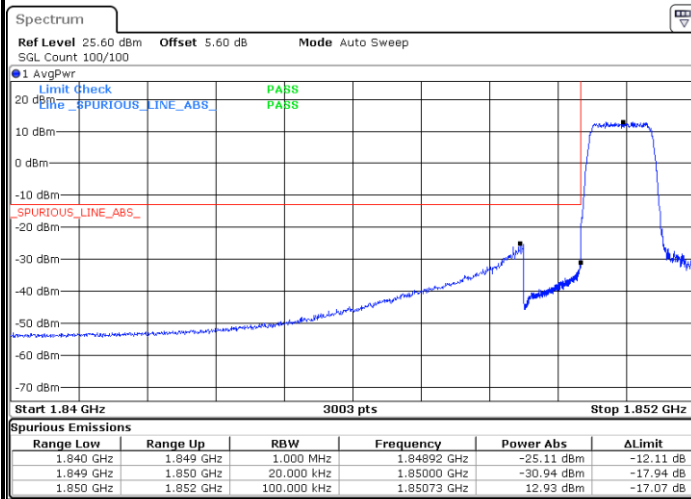
Lowest Band Edge / 1 RB



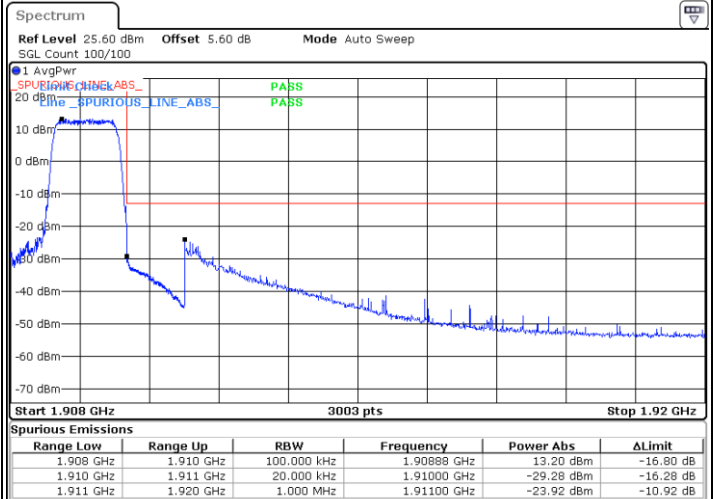
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



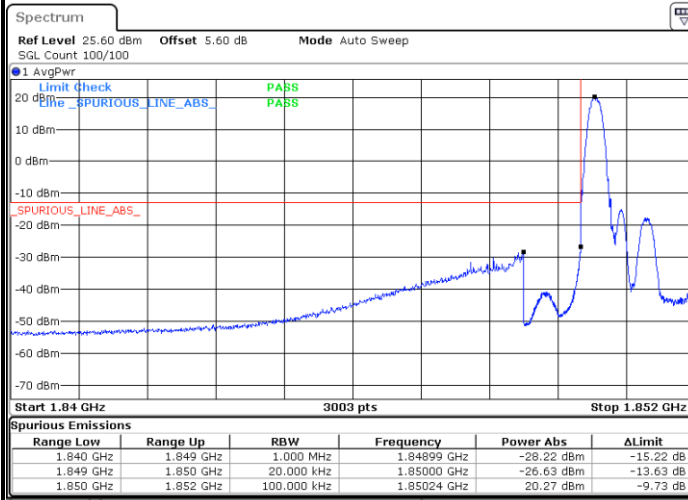
Highest Band Edge / Full RB



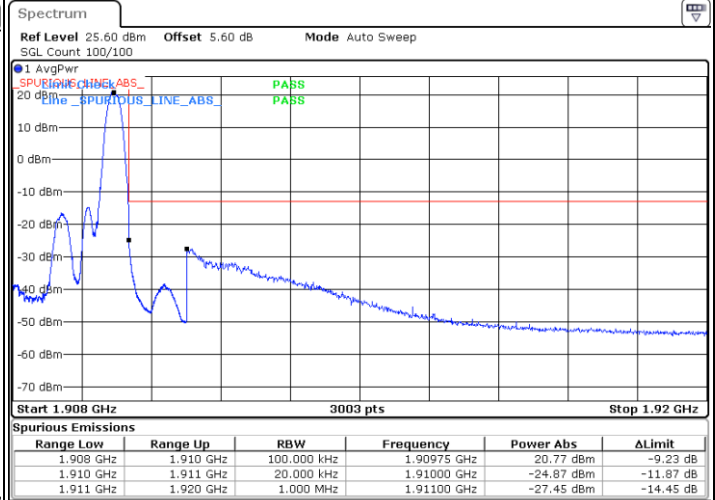


LTE Band 2 / 1.4MHz / 64QAM

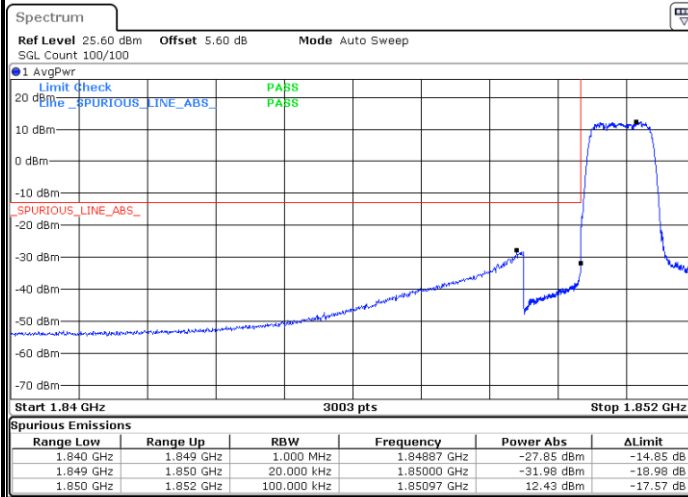
Lowest Band Edge / 1 RB



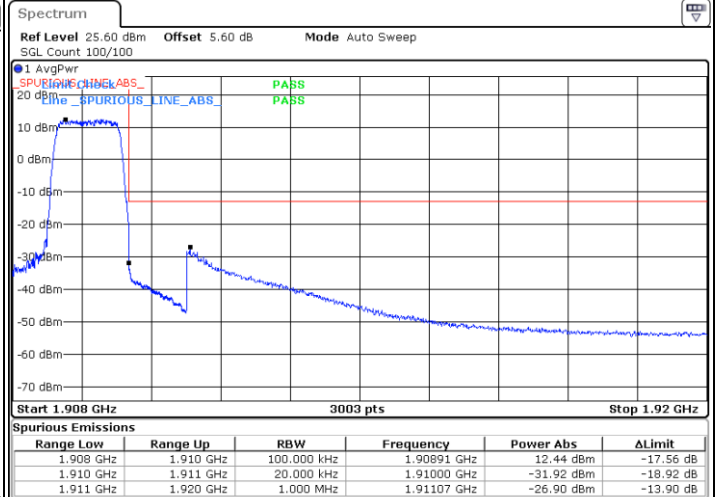
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



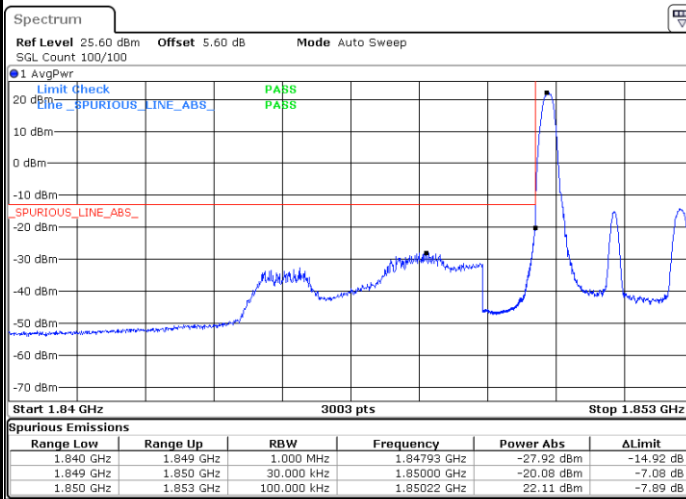
Highest Band Edge / Full RB



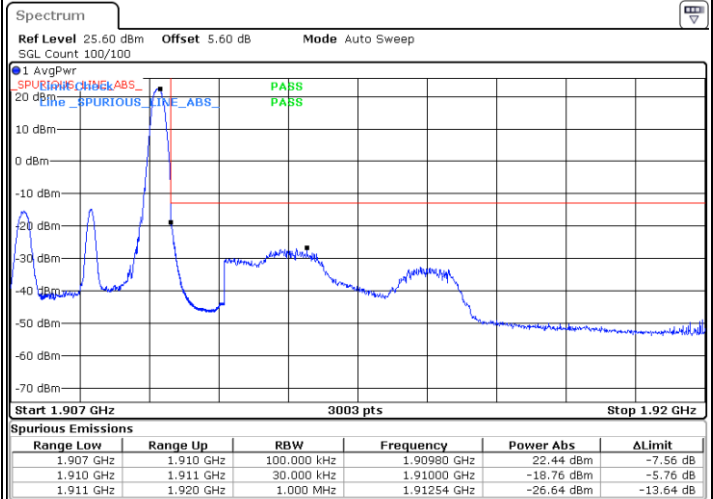


LTE Band 2 / 3MHz / QPSK

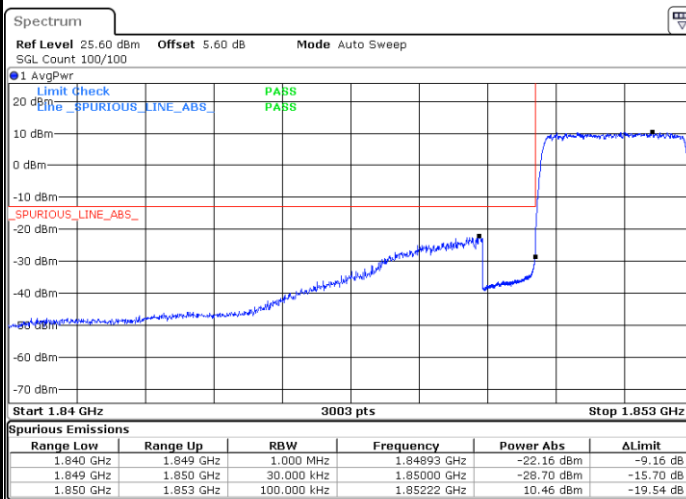
Lowest Band Edge / 1RB



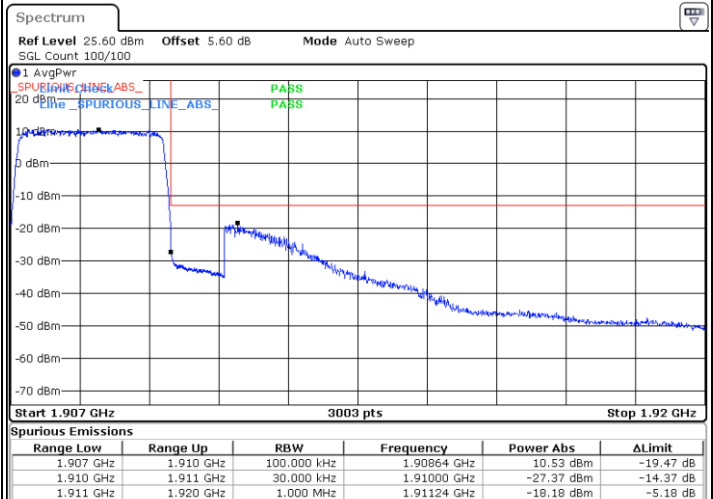
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



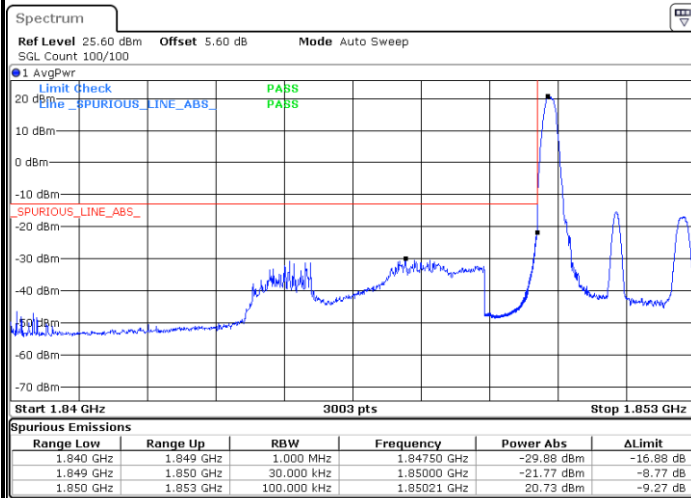
Highest Band Edge / Full RB



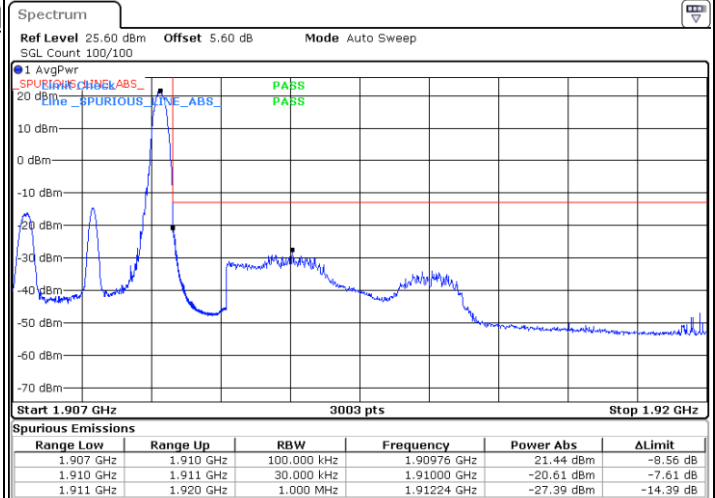


LTE Band 2 / 3MHz / 16QAM

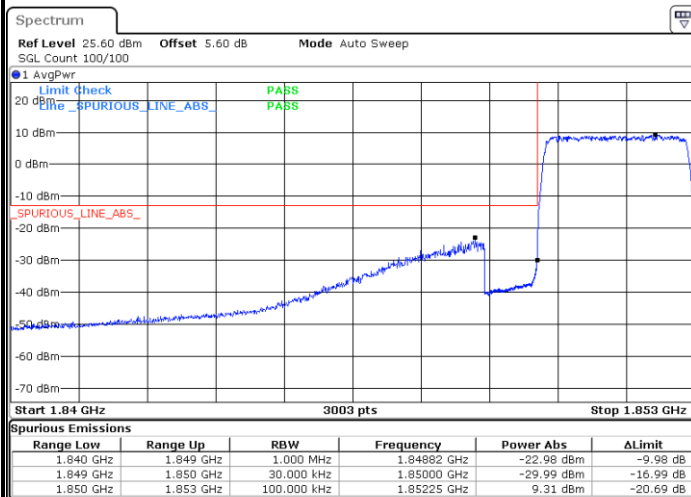
Lowest Band Edge / 1 RB



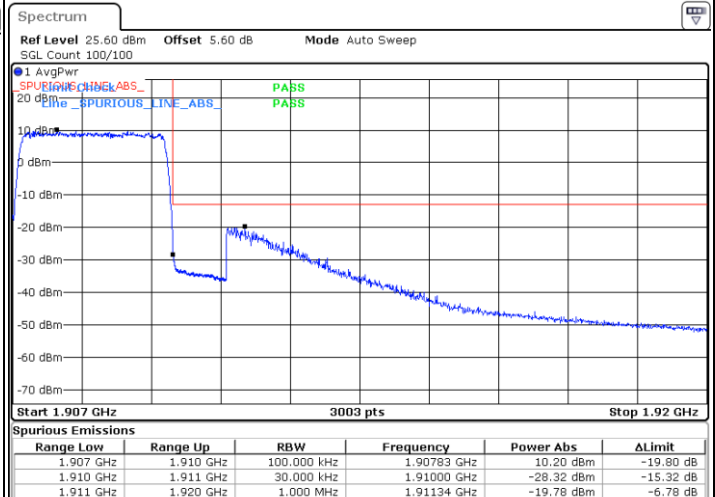
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



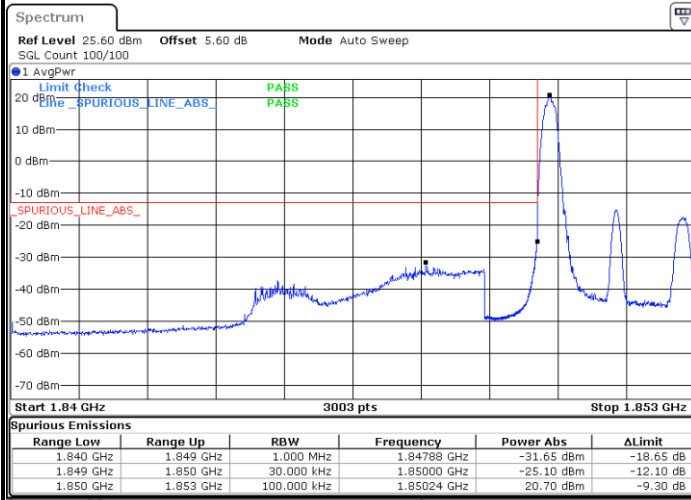
Highest Band Edge / Full RB



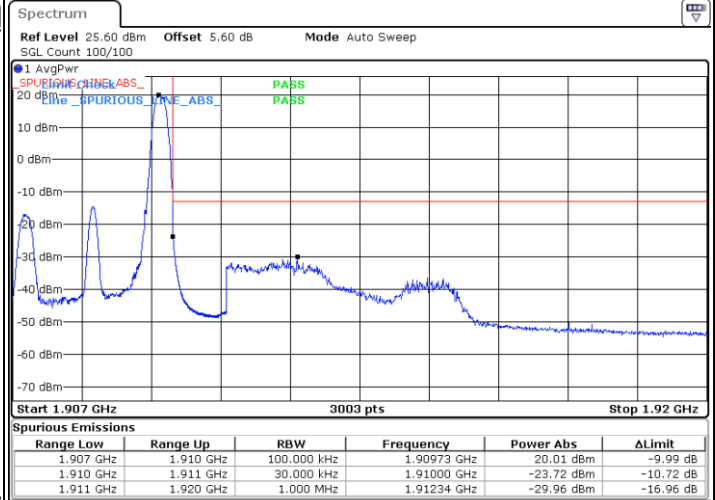


LTE Band 2 / 3MHz / 64QAM

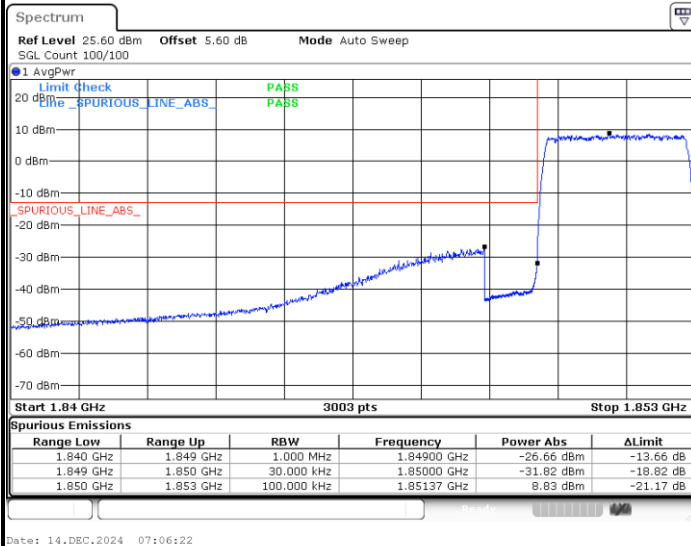
Lowest Band Edge / 1 RB



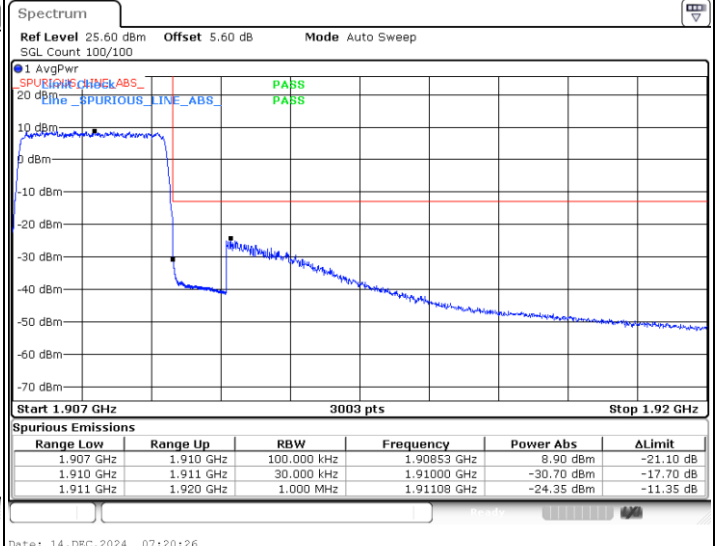
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



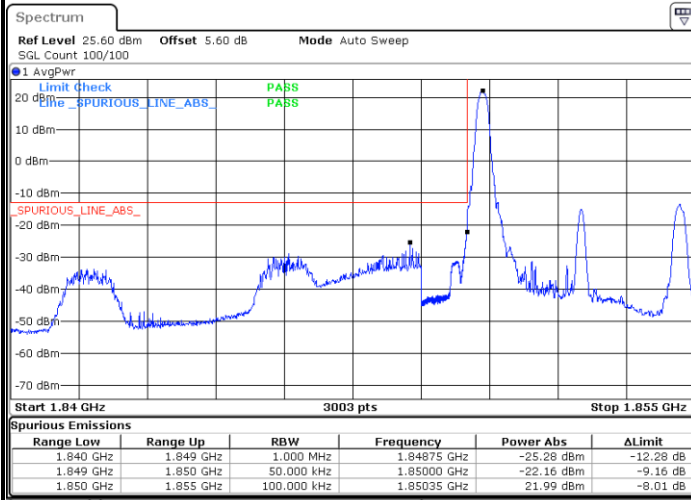
Highest Band Edge / Full RB



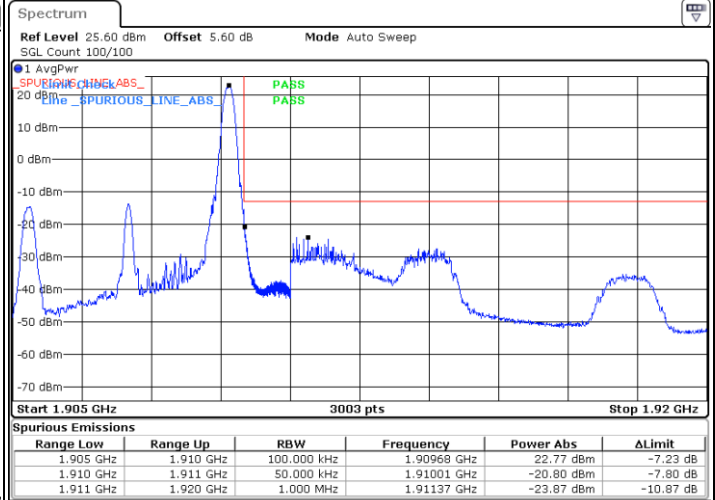


LTE Band 2 / 5MHz / QPSK

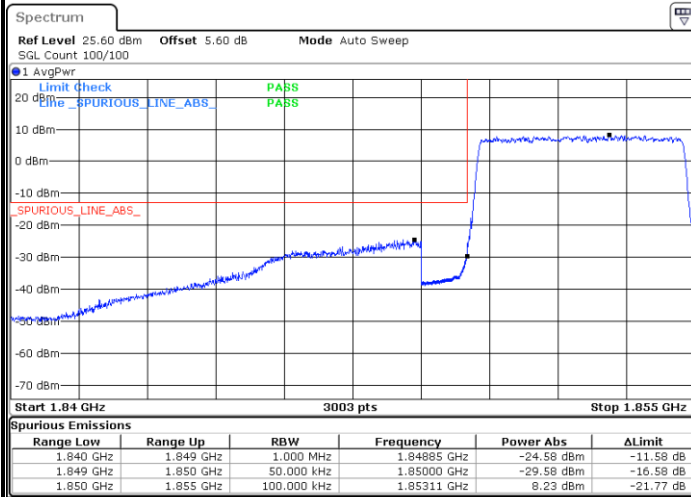
Lowest Band Edge / 1 RB



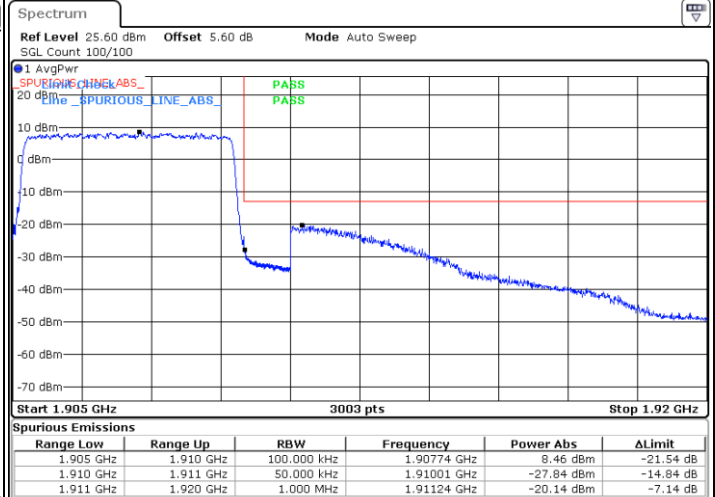
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



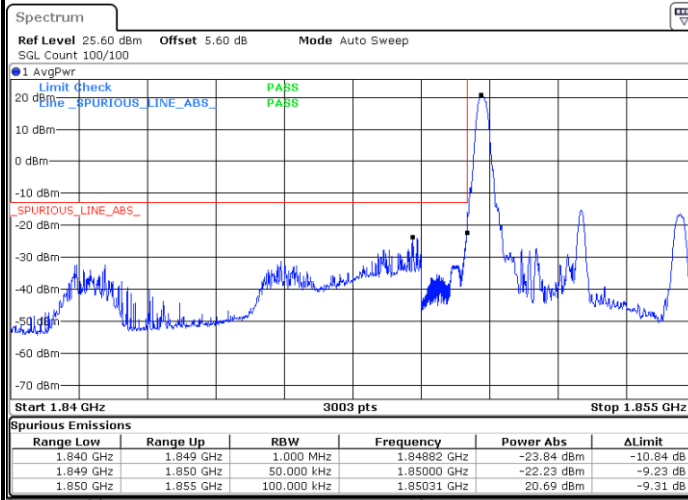
Highest Band Edge / Full RB



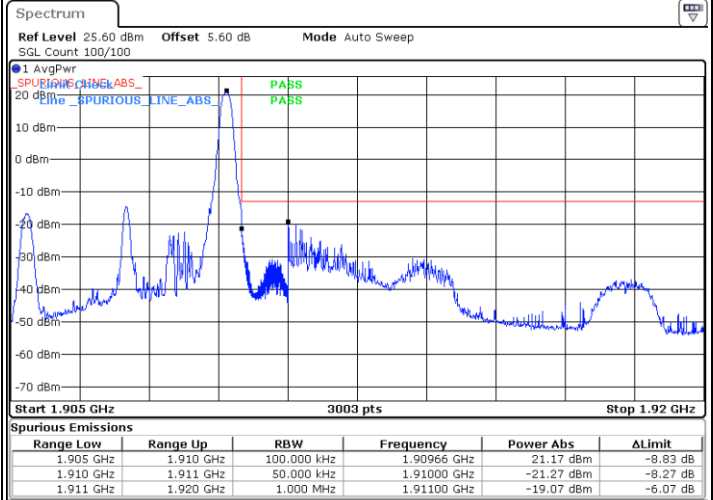


LTE Band 2 / 5MHz / 16QAM

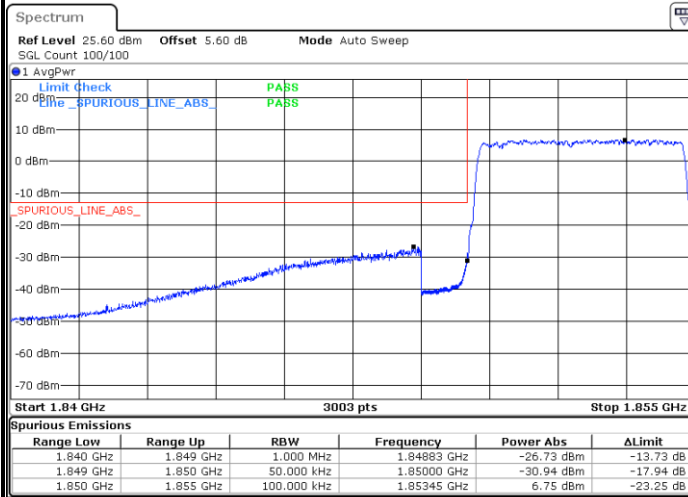
Lowest Band Edge / 1RB



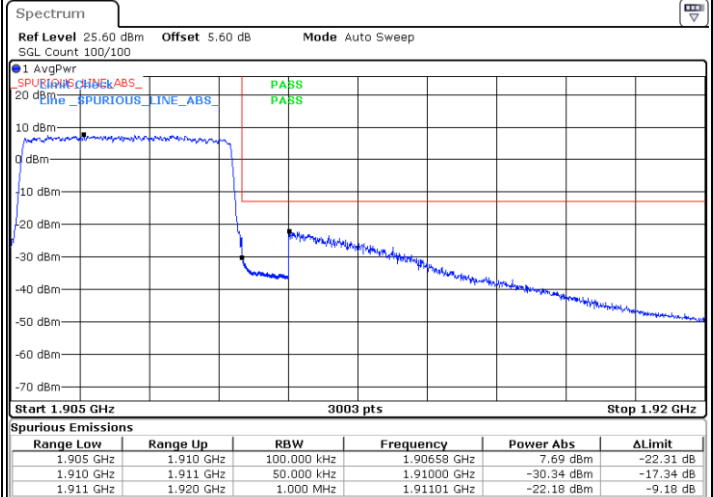
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



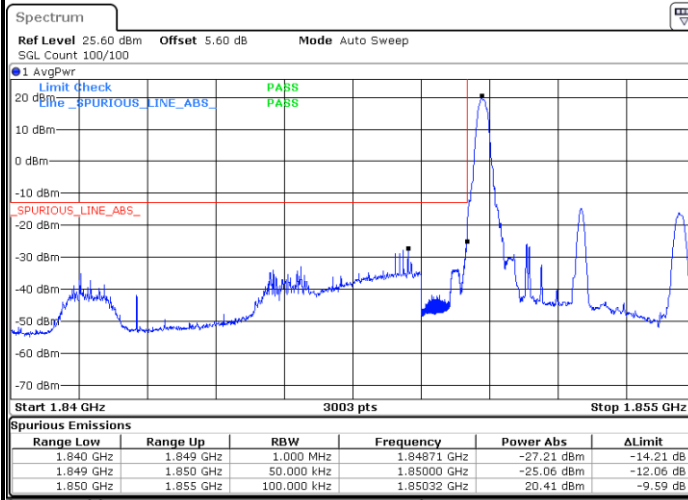
Highest Band Edge / Full RB





LTE Band 2 / 5MHz / 64QAM

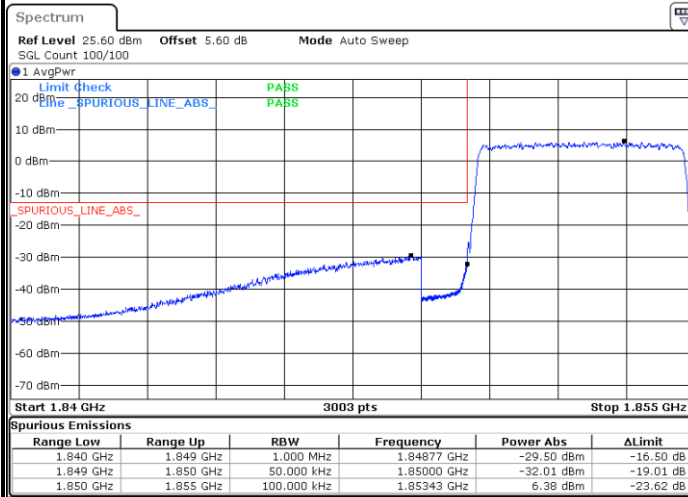
Lowest Band Edge / 1RB



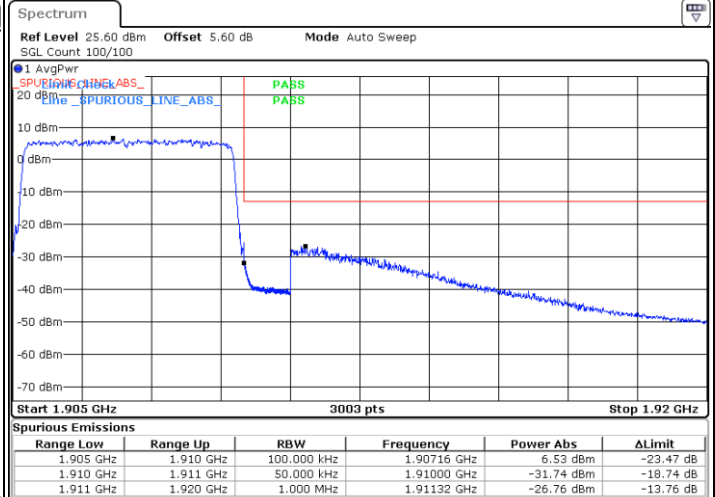
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



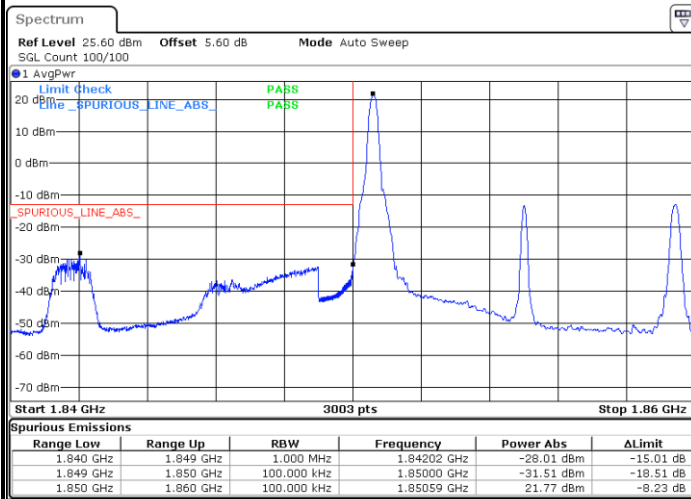
Highest Band Edge / Full RB



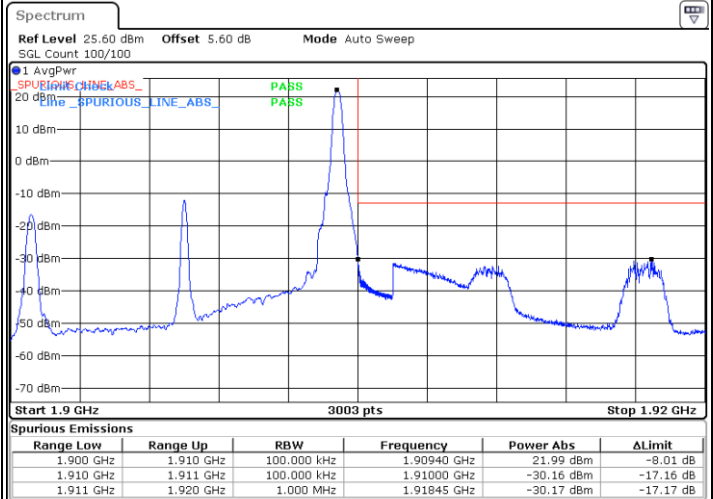


LTE Band 2 / 10MHz / QPSK

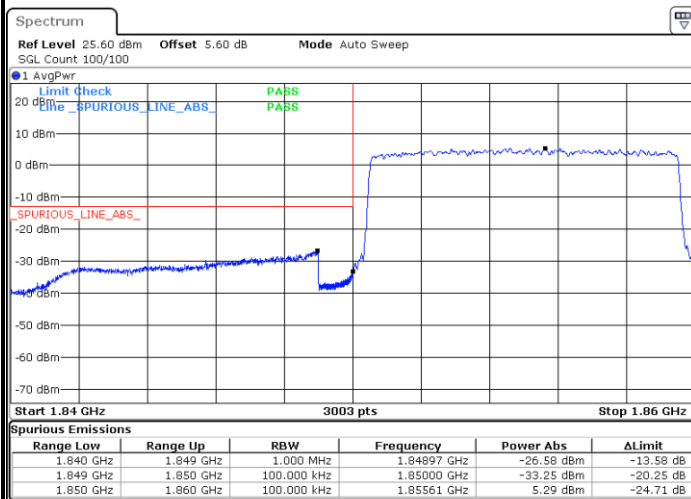
Lowest Band Edge / 1 RB



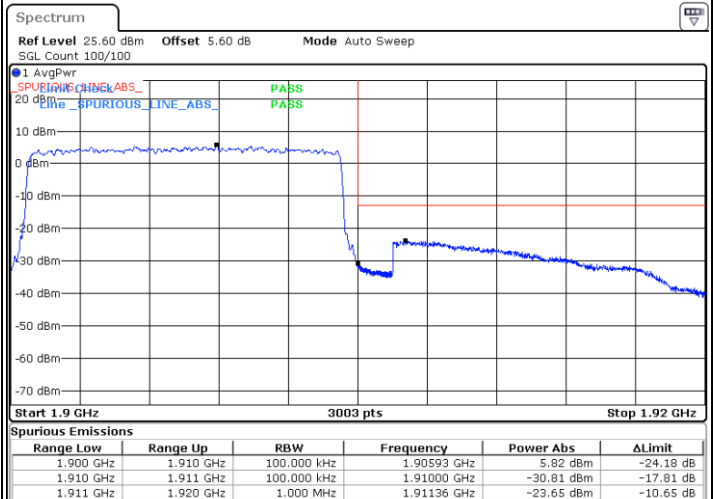
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



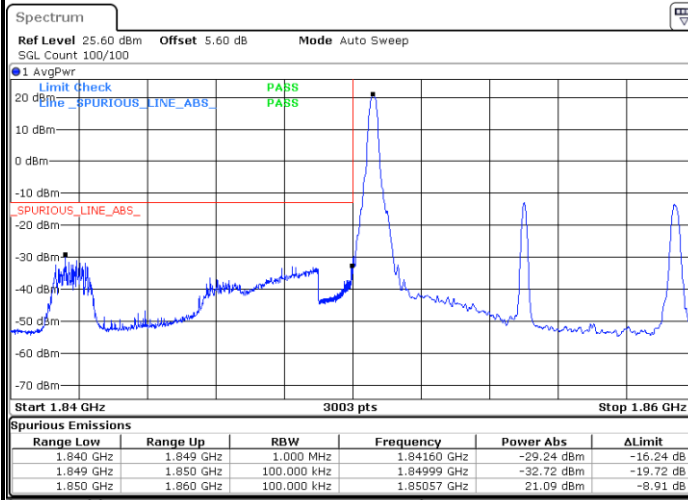
Highest Band Edge / Full RB



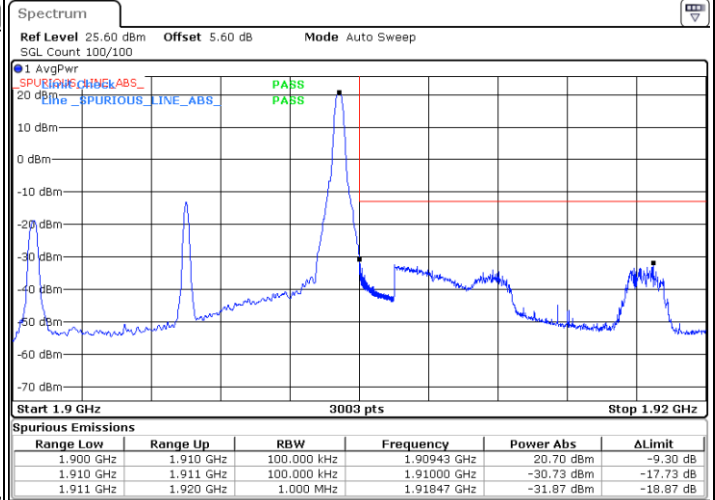


LTE Band 2 / 10MHz / 16QAM

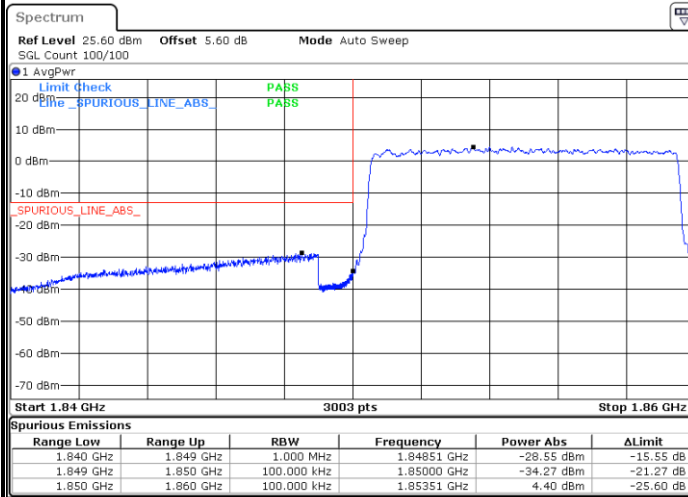
Lowest Band Edge / 1 RB



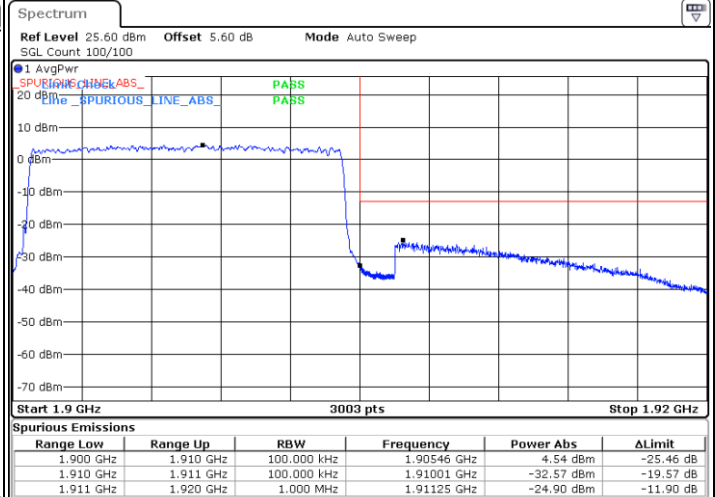
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



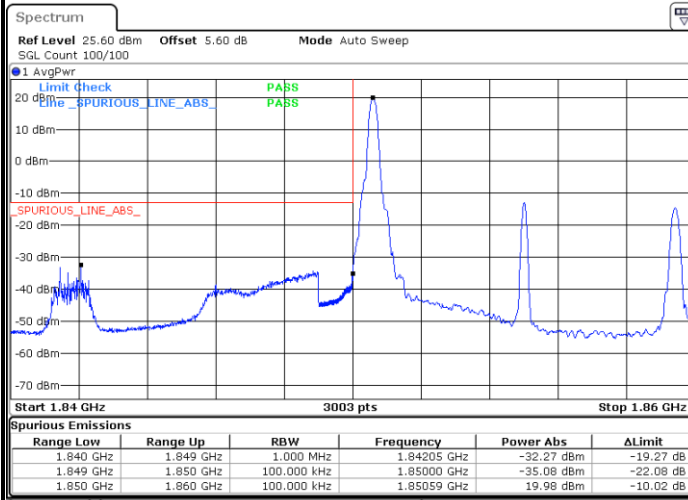
Highest Band Edge / Full RB



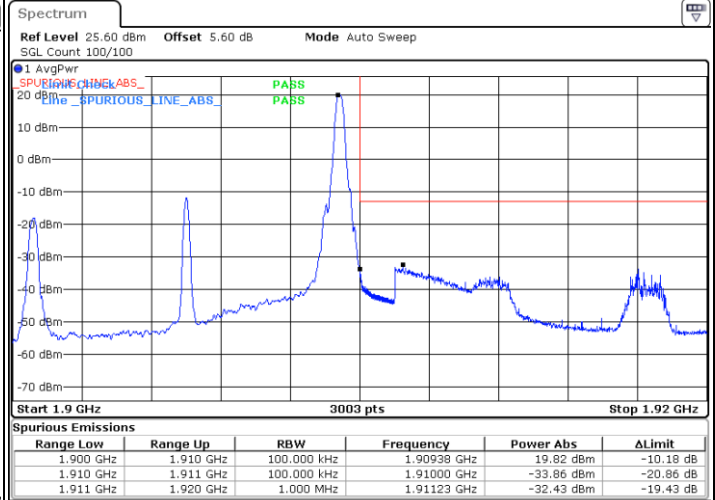


LTE Band 2 / 10MHz / 64QAM

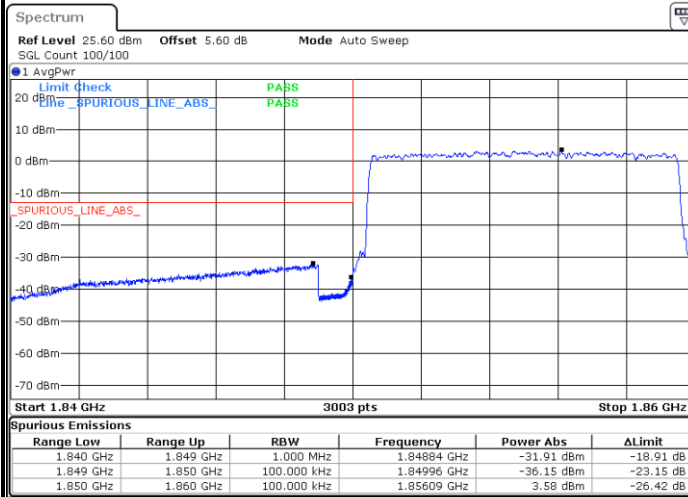
Lowest Band Edge / 1 RB



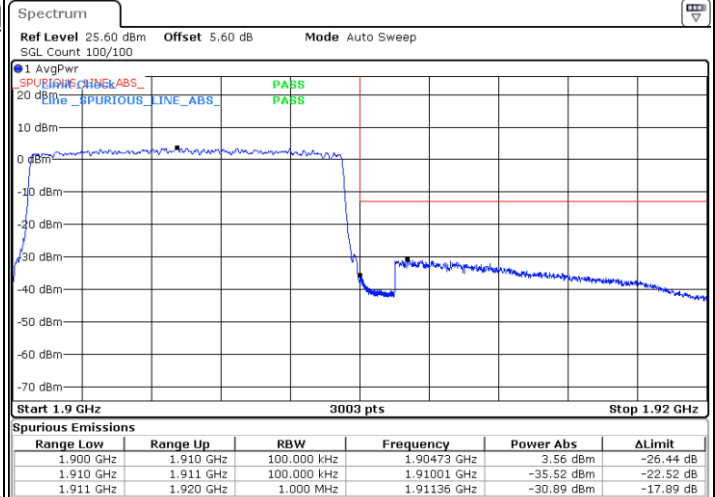
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



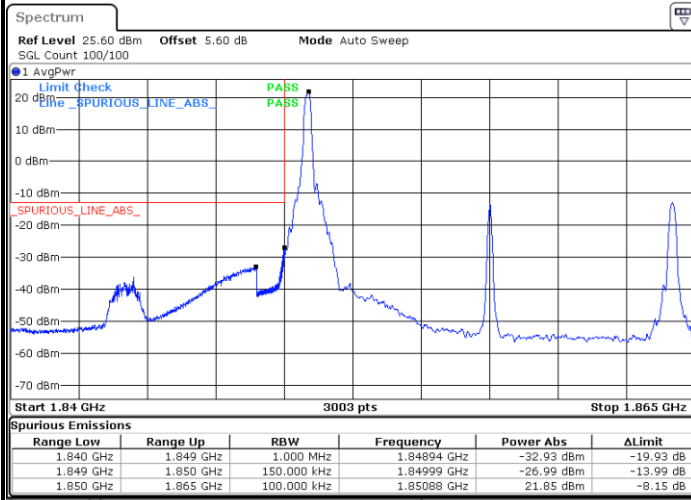
Highest Band Edge / Full RB



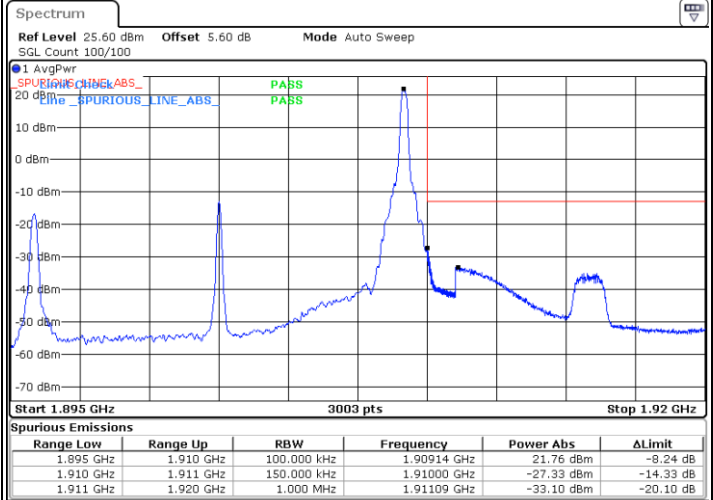


LTE Band 2 / 15MHz / QPSK

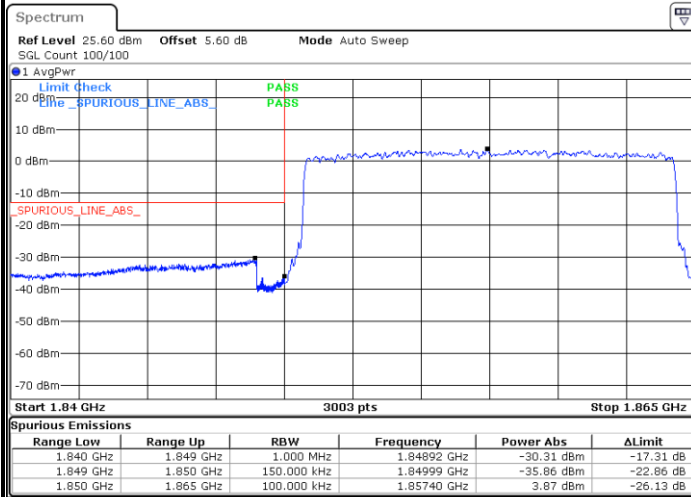
Lowest Band Edge / 1 RB



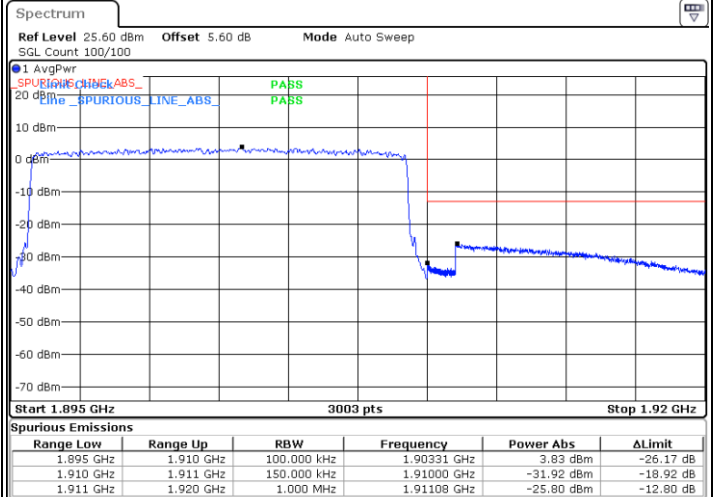
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



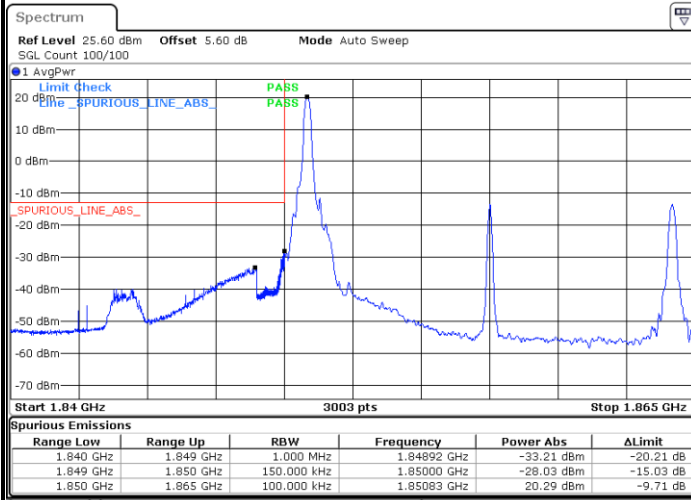
Highest Band Edge / Full RB



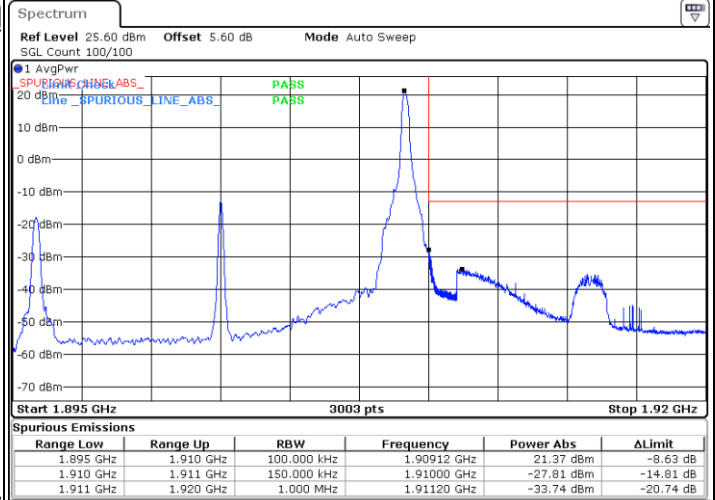


LTE Band 2 / 15MHz / 16QAM

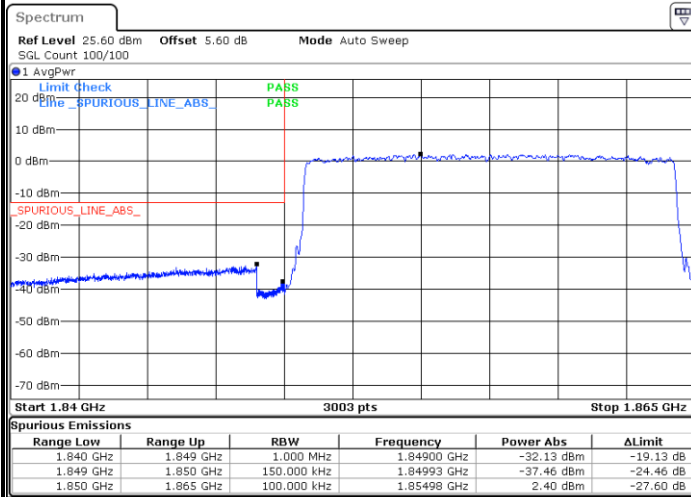
Lowest Band Edge / 1 RB



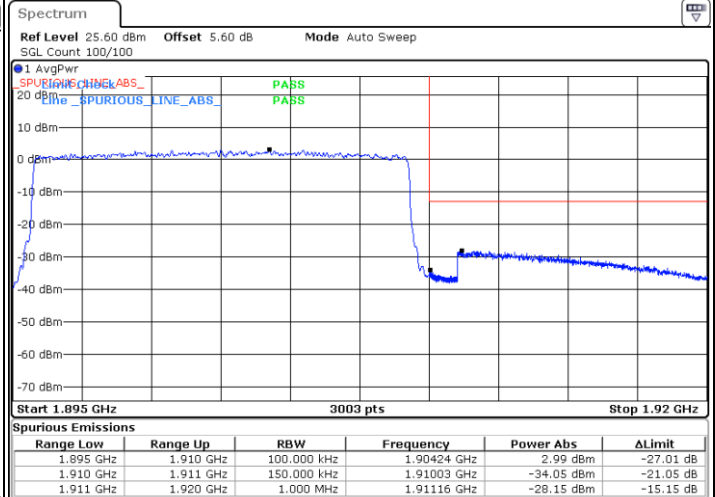
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



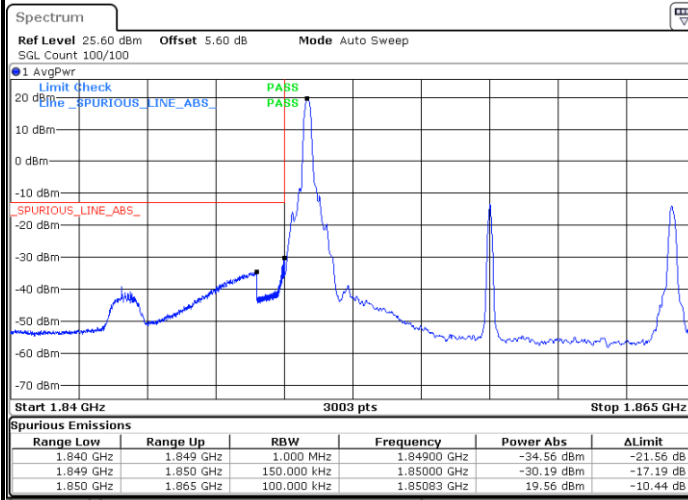
Highest Band Edge / Full RB



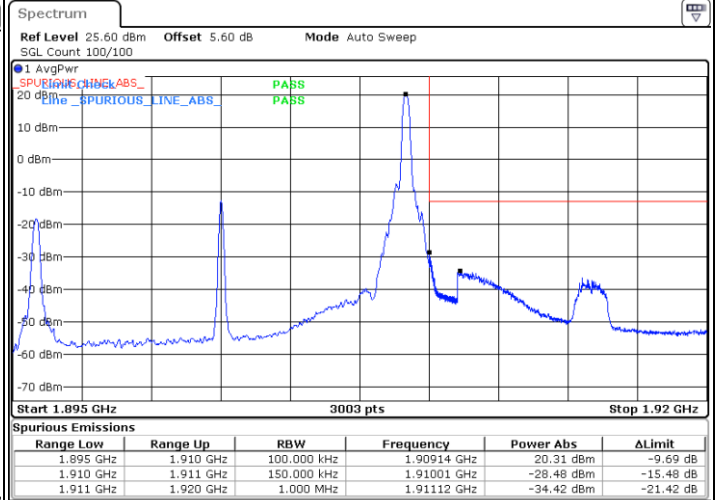


LTE Band 2 / 15MHz / 64QAM

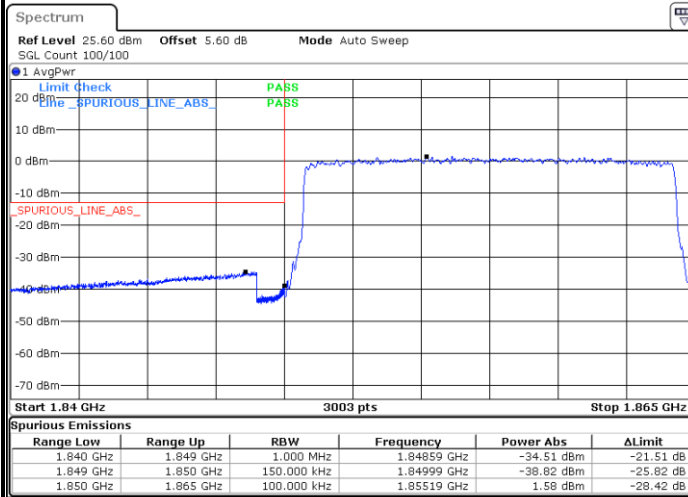
Lowest Band Edge / 1 RB



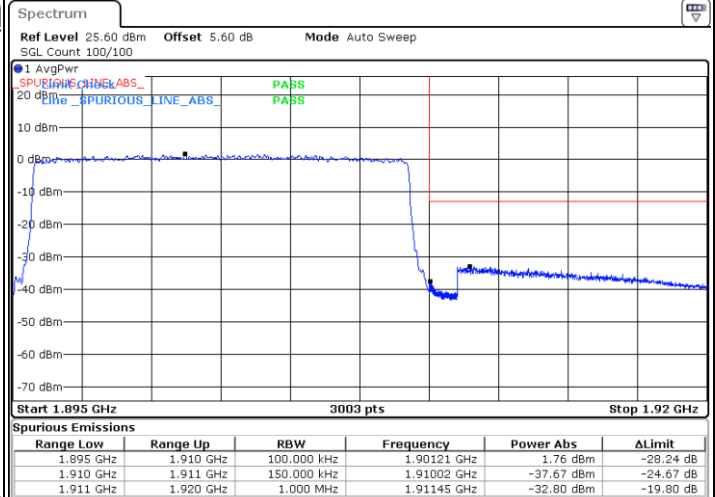
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



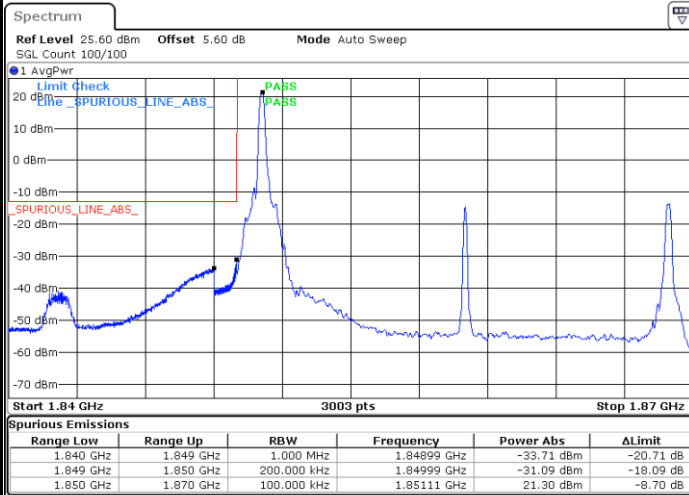
Highest Band Edge / Full RB



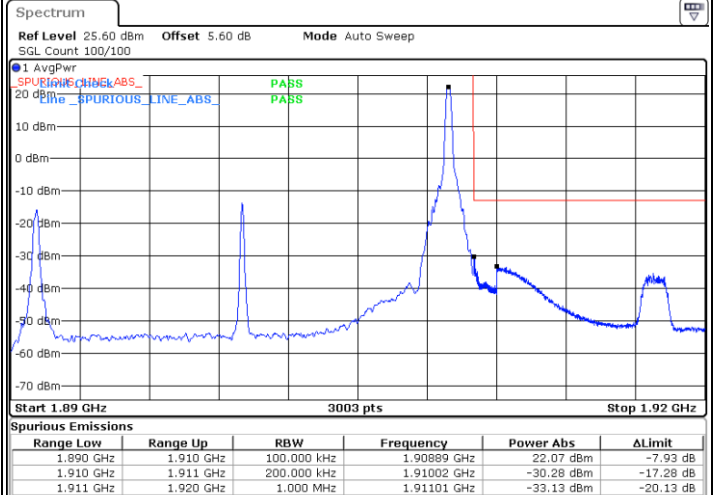


LTE Band 2 / 20MHz / QPSK

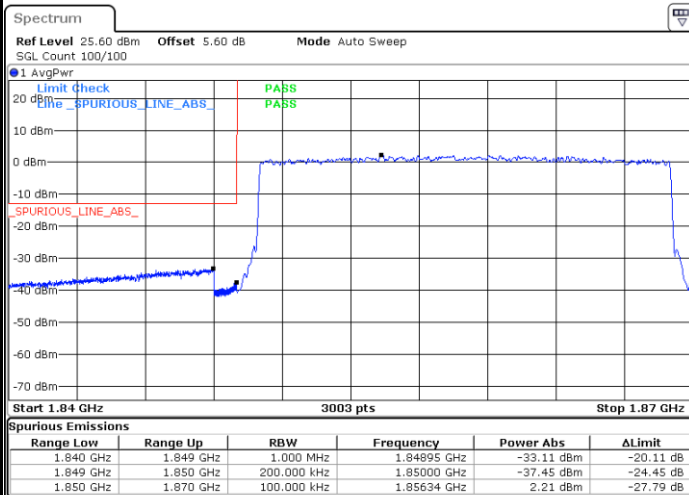
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

