



FCC RADIO TEST REPORT

FCC ID : UZ7TC26EK
Equipment : Touch computer
Brand Name : Zebra
Model Name : TC26EK
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jan. 27, 2021 and testing was started from Feb. 01, 2021 and completed on Feb. 19, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG002628-02B	01	Initial issue of report	Mar. 04, 2021

Summary of Test Result

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



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66)	Pass	Under limit 16.47 dB at 7503.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7)		

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Wii Chang**Report Producer: Cindy Liu**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch computer
Brand Name	Zebra
Model Name	TC26EK
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV1.5
SW Version	Android version 10
OS Version	FUSION_QA_2_1.3.0.022_Q
FW Version	Zebra/TC26PG/TC26:10/10-16-10.00-QG-U36-STD-HEL-04/13 5:userdebug/release-keys
MFD	13JAN21
EUT Stage	Engineering Sample

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

Specification of Accessories				
AC Adapter	Brand Name	Zebra	Model Name	SAWA-65-20005A
Battery	Brand Name	Zebra	Model Name	BT-000409A
USB Cable 1 (TypeA plug to TypeC plug)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable 2 (TypeA plug to TypeC plug)	Brand Name	Zebra	Part Number	CBL-TC2Y-USBC90A-01
Headset 3.5mm type with PTT/micassy	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Adapter Cable PTT headset (3.5mm to 3.5mm)	Brand Name	Zebra	Part Number	CBL-TC51-HDST35-01
Type C to 3.5mm adapter	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
Snap on Trigger handle	Brand Name	Zebra	Part Number	TRG-TC2Y-SNP1-01
Belt Holster	Brand Name	Zebra	Part Number	SG-TC2Y-HLSTR1-01
Wearable Arm Mount	Brand Name	Zebra	Part Number	SG-TC2Y-ARMNT-01



1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 824.7 MHz ~ 848.3 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 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 7: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2: 24.07 dBm LTE Band 4: 23.92 dBm LTE Band 5: 23.21 dBm LTE Band 7: 23.66 dBm LTE Band 12: 23.50 dBm LTE Band 13: 22.65 dBm LTE Band 17 : 23.35 dBm LTE Band 25: 23.93 dBm LTE Band 26: 23.23 dBm LTE Band 66: 23.91 dBm



Product Specification subjective to this standard	
Antenna Type	PIFA Antenna
Antenna Gain	LTE Band 2: 2.8 dBi LTE Band 4: 2.8 dBi LTE Band 5: 0.7 dBi LTE Band 7: 1.3 dBi LTE Band 12: 0 dBi LTE Band 13: 0 dBi LTE Band 17: 0 dBi LTE Band 25: 2.8 dBi LTE Band 26: 0.7 dBi LTE Band 66: 2.8 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 Emission Designator

LTE Band 2		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.4808	1M09W7D	-	0.4246	1M09W7D	-	0.3281
3	1851.5 ~ 1908.5	2M74G7D	-	0.4842	2M72W7D	-	0.4217	2M75W7D	-	0.3258
5	1852.5 ~ 1907.5	4M50G7D	-	0.4797	4M50W7D	-	0.4315	4M48W7D	-	0.3289
10	1855.0 ~ 1905.0	8M97G7D	0.0049	0.4808	9M05W7D	-	0.4266	9M03W7D	-	0.3281
15	1857.5 ~ 1902.5	13M4G7D	-	0.4842	13M5W7D	-	0.4305	13M4W7D	-	0.3251
20	1860.0 ~ 1900.0	17M9G7D	-	0.4864	17M9W7D	-	0.4315	17M9W7D	-	0.3296
LTE Band 4		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M08G7D	-	0.4656	1M09W7D	-	0.4178	1M09W7D	-	0.3289
3	1711.5 ~ 1753.5	2M73G7D	-	0.4688	2M73W7D	-	0.4227	2M73W7D	-	0.3221
5	1712.5 ~ 1752.5	4M51G7D	-	0.4677	4M51W7D	-	0.4227	4M49W7D	-	0.3258
10	1715.0 ~ 1750.0	9M03G7D	0.0045	0.4656	9M07W7D	-	0.4169	8M99W7D	-	0.3296
15	1717.5 ~ 1747.5	13M5G7D	-	0.4667	13M5W7D	-	0.4159	13M4W7D	-	0.3258
20	1720.0 ~ 1745.0	17M8G7D	-	0.4699	17M9W7D	-	0.4227	17M9W7D	-	0.3296



LTE Band 5		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.1493	1M10W7D	-	0.1343	1M09W7D	-	0.1021
3	825.5 ~ 847.5	2M74G7D	-	0.1489	2M71W7D	-	0.1321	2M72W7D	-	0.1005
5	826.5 ~ 846.5	4M49G7D	-	0.1493	4M50W7D	-	0.1327	4M50W7D	-	0.1012
10	829.0 ~ 844.0	9M05G7D	0.0124	0.1500	9M01W7D	-	0.1346	9M01W7D	-	0.1021
LTE Band 7		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M51G7D	-	0.3048	4M51W7D	-	0.2965	4M48W7D	-	0.2133
10	2505.0 ~ 2565.0	9M07G7D	0.0054	0.3126	9M01W7D	-	0.2786	9M03W7D	-	0.2203
15	2507.5 ~ 2562.5	13M4G7D	-	0.3090	13M4W7D	-	0.3006	13M5W7D	-	0.2148
20	2510.0 ~ 2560.0	17M8G7D	-	0.3133	17M8W7D	-	0.2911	17M9W7D	-	0.2153
LTE Band 12		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09G7D	-	0.1358	1M09W7D	-	0.1172	1M09W7D	-	0.0925
3	700.5 ~ 714.5	2M72G7D	-	0.1337	2M72W7D	-	0.1156	2M74W7D	-	0.0916
5	701.5 ~ 713.5	4M48G7D	-	0.1352	4M50W7D	-	0.1175	4M49W7D	-	0.0916
10	704.0 ~ 711.0	8M93G7D	0.0237	0.1365	9M03W7D	-	0.1175	8M97W7D	-	0.0925
LTE Band 13		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M50G7D	-	0.1104	4M50W7D	-	0.1035	4M51W7D	-	0.0701
10	782.0	9M05G7D	0.0240	0.1122	9M01W7D	-	0.1040	9M03W7D	-	0.0711
LTE Band 17		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M48G7D	-	0.1300	4M49W7D	-	0.1153	4M49W7D	-	0.0891
10	709.0 ~ 711.0	9M01G7D	0.0192	0.1318	8M93W7D	-	0.1175	9M01W7D	-	0.0902



LTE Band 25		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.4645	1M09W7D	-	0.4236	1M09W7D	-	0.3251
3	1851.5 ~ 1913.5	2M72G7D	-	0.4699	2M72W7D	-	0.4207	2M73W7D	-	0.3236
5	1852.5 ~ 1912.5	4M52G7D	-	0.4677	4M53W7D	-	0.4236	4M50W7D	-	0.3214
10	1855.0 ~ 1910.0	8M97G7D	0.0080	0.4677	9M05W7D	-	0.4207	9M05W7D	-	0.3214
15	1857.5 ~ 1907.5	13M4G7D	-	0.4677	13M5W7D	-	0.4188	13M4W7D	-	0.3251
20	1860.0 ~ 1905.0	17M8G7D	-	0.4710	17M9W7D	-	0.4256	17M9W7D	-	0.3266
LTE Band 26		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.1489	1M09W7D	-	0.1503	1M09W7D	-	0.1030
3	825.5 ~ 847.5	2M72G7D	-	0.1483	2M72W7D	-	0.1337	2M73W7D	-	0.1019
5	826.5 ~ 846.5	4M50G7D	-	0.1493	4M49W7D	-	0.1361	4M52W7D	-	0.1026
10	829.0 ~ 844.0	9M07G7D	0.0134	0.1496	8M99W7D	-	0.1352	9M01W7D	-	0.1019
15	831.5 ~ 841.5	13M4G7D	-	0.1507	13M4W7D	-	0.1361	13M4W7D	-	0.1030
LTE Band 66		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1779.3	1M08G7D	-	0.4656	1M09W7D	-	0.3917	1M08W7D	-	0.3083
3	1711.5 ~ 1778.5	2M72G7D	-	0.4645	2M72W7D	-	0.3908	2M73W7D	-	0.3069
5	1712.5 ~ 1777.5	4M49G7D	-	0.4613	4M50W7D	-	0.3882	4M48W7D	-	0.3105
10	1715.0 ~ 1775.0	9M01G7D	0.0060	0.4624	9M05W7D	-	0.3917	9M01W7D	-	0.3105
15	1717.5 ~ 1772.5	13M5G7D	-	0.4581	13M4W7D	-	0.3873	13M4W7D	-	0.3090
20	1720.0 ~ 1770.0	17M8G7D	-	0.4688	17M9W7D	-	0.3936	17M9W7D	-	0.3105



1.5 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	George Chen
Temperature	22~25°C
Relative Humidity	51~55%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58 , Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY (TAF Code: 3786)
Test Engineer	Bill Chang, Fu Chen, Quentin Liu and Troye Hsieh
Temperature	19~22.5°C
Relative Humidity	42.9~59.3%
Remark	The Radiated test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW0007

1.6 Applicable Standards

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

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

Remark:

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



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.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory (Earphone or Adapter). The worst cases (X Plane for LTE Band 66, Z Plane for LTE Band 4, X Plane with Adapter for LTE Band 5, 26, Y Plane with Adapter for LTE Band 12, 17 and Z Plane with Adapter for LTE Band 2, 7, 13) were recorded in this report.

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
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	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	
	4						v	v	v	v			v		v	
	5				v	-	-	v	v	v			v		v	
	7	-	-				v	v	v	v			v		v	
	12				v	-	-	v	v	v			v		v	
	13	-	-		v	-	-	v	v	v			v		v	
	17	-	-		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	



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
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	v			v		v	
	4	v	v	v	v	v	v	v	v	v			v		v	
	5	v	v	v	v	-	-	v	v	v			v		v	
	7	-	-	v	v	v	v	v	v	v			v		v	
	12	v	v	v	v	-	-	v	v	v			v		v	
	13	-	-	v	v	-	-	v	v	v			v		v	
	17	-	-	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	
Conducted Band Edge	2	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
	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	17	-	-	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



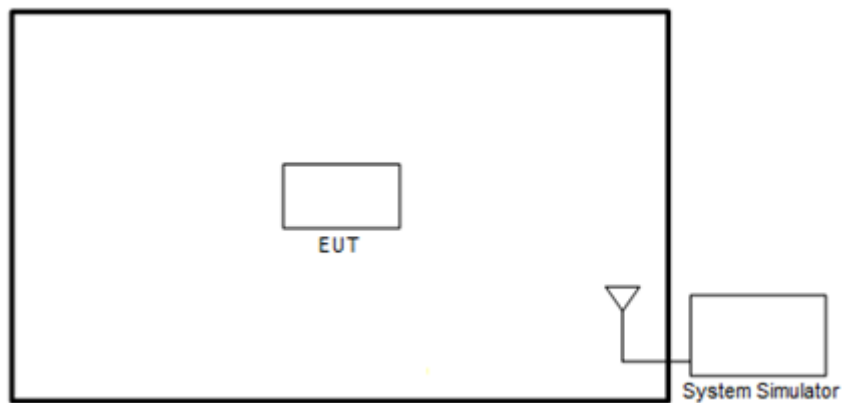
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	7	-	-	v	v	v	v	v			v			v	v	v
	12	v	v	v	v	-	-	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	17	-	-	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	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	17	-	-		v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	
	66				v			v					v		v	



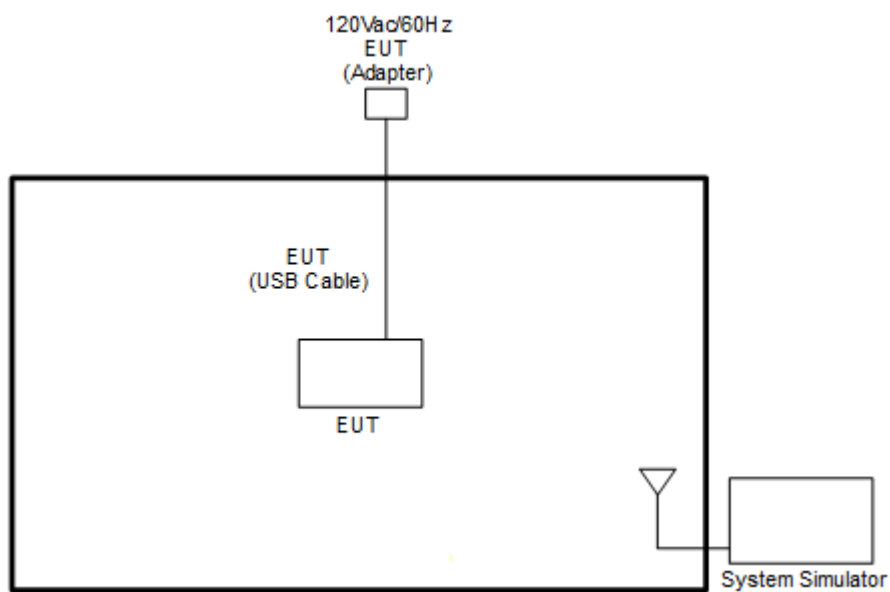
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	Max Power					
	4	v	v	v	v	v	v	v	v	v						
	5	v	v	v	v	-	-	v	v	v						
	7	-	-	v	v	v	v	v	v	v						
	12	v	v	v	v	-	-	v	v	v						
	13	-	-	v	v	-	-	v	v	v						
	17	-	-	v	v	-	-	v	v	v						
	25	v	v	v	v	v	v	v	v	v						
	26	v	v	v	v	v	-	v	v	v						
	66	v	v	v	v	v	v	v	v	v						
Radiated Spurious Emission	2	Worst Case											v	v	v	
	4	Worst Case											v	v	v	
	5	Worst Case											v	v	v	
	7	Worst Case											v	v	v	
	12	Worst Case											v	v	v	
	13	Worst Case											v	v	v	
	17	Worst Case											v	v	v	
	25	Covered by Band 2														
	26	Worst Case											v	v	v	
	66	Worst Case											v	v	v	
Remark	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performed with USB Cable 1. 5. Wider operating range bandwidth covers narrower one when the power is higher or the same.															

2.2 Connection Diagram of Test System

<EUT Standalone>



<EUT with Adapter>





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$



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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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



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

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

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



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
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

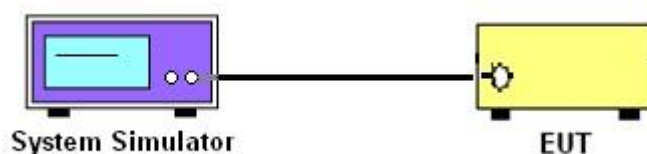
3 Conducted Test Items

3.1 Measuring Instruments

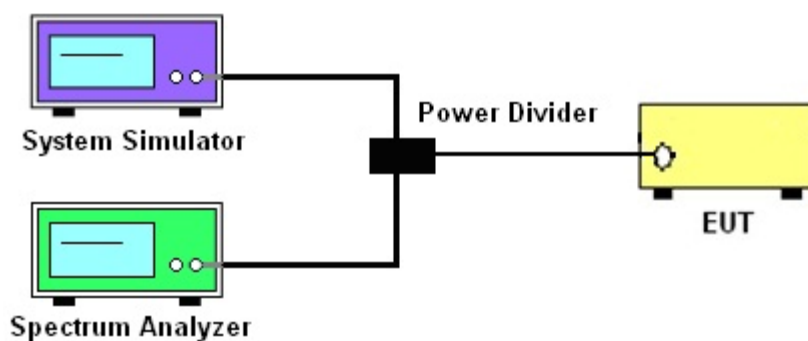
See list of measuring instruments of this test report.

3.1.1 Test Setup

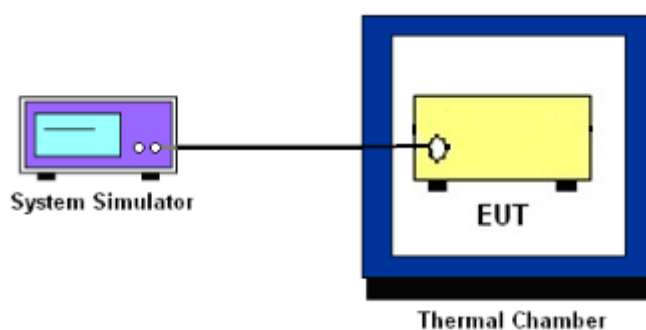
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

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

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

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

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

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

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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

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

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

3.4.2 Test Procedures

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

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



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ 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 (c)

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

27.53 (g)

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, 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.

27.53(m)(4)

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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ 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.

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

For LTE Band 7

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

3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

For LTE Band 7

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

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

For LTE Band 7

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



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235 & 27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

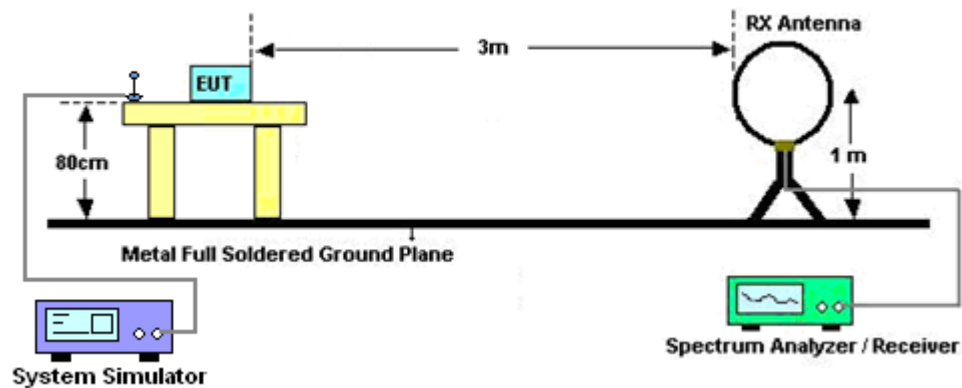
4 Radiated Test Items

4.1 Measuring Instruments

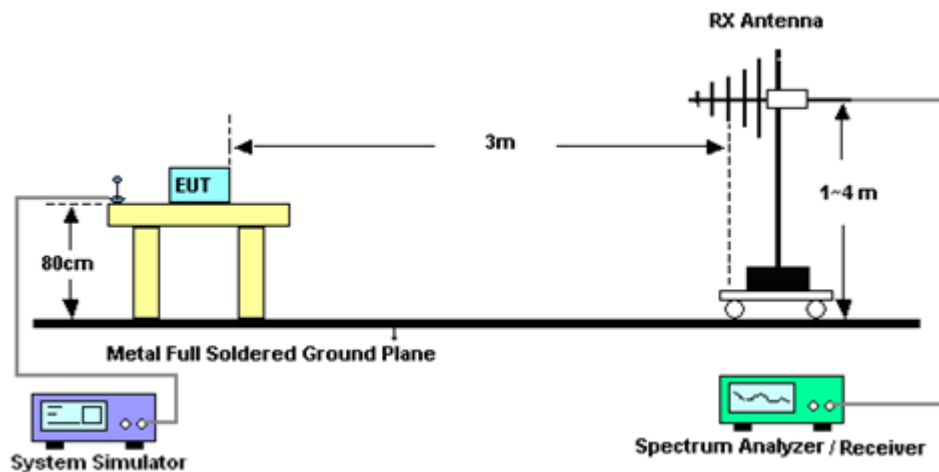
See list of measuring instruments of this test report.

4.1.1 Test Setup

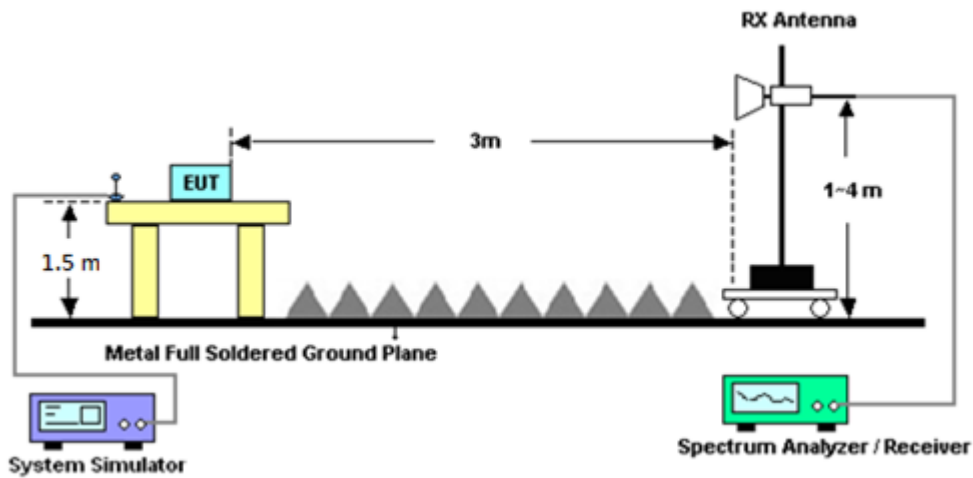
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

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



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 7

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

For LTE Band 13

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

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

4.2.2 Test Procedures

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

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

For LTE Band 7

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

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Feb. 01, 2021~ Feb. 19, 2021	Jul. 13, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 03, 2020	Feb. 01, 2021~ Feb. 19, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	May 20, 2020	Feb. 01, 2021~ Feb. 19, 2021	May 19, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 22, 2020	Feb. 01, 2021~ Feb. 19, 2021	May 21, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170980	18GHz~40GHz	Jan. 11, 2021	Feb. 01, 2021~ Feb. 19, 2021	Jan. 10, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Feb. 01, 2021~ Feb. 19, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Feb. 01, 2021~ Feb. 19, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Feb. 01, 2021~ Feb. 19, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	Feb. 01, 2021~ Feb. 19, 2021	Jun. 14, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Feb. 01, 2021~ Feb. 19, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Feb. 01, 2021~ Feb. 19, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 14, 2020	Feb. 01, 2021~ Feb. 19, 2021	Dec. 13, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 01, 2021~ Feb. 19, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Feb. 01, 2021~ Feb. 19, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 01, 2021~ Feb. 19, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Feb. 01, 2021~ Feb. 19, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Feb. 01, 2021~ Feb. 19, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Feb. 01, 2021~ Feb. 19, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Feb. 01, 2021~ Feb. 19, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Feb. 01, 2021~ Feb. 19, 2021	Mar. 11, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-108 0-1200-15000- 60SS	SN2	1.2GHz High Pass Filter	Sep. 14, 2020	Feb. 01, 2021~ Feb. 19, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000- 60SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	Feb. 01, 2021~ Feb. 19, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Feb. 01, 2021~ Feb. 19, 2021	Nov. 17, 2021	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP200880	QA-3-031	Oct. 22, 2020	Feb. 01, 2021~ Feb. 19, 2021	Oct. 21, 2021	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station(Measure)	Anritsu	MT8821C	62620025341	N/A	Oct. 06, 2020	Feb. 01, 2021~ Feb. 05, 2021	Oct. 05, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101909	10Hz~40GHz	May 19, 2020	Feb. 01, 2021~ Feb. 05, 2021	May 18, 2021	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 14, 2020	Feb. 01, 2021~ Feb. 05, 2021	Sep. 13, 2021	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 05, 2020	Feb. 01, 2021~ Feb. 05, 2021	Oct. 04, 2021	Conducted (TH05-HY)
Coupler	MVE	MVE4816	A400014	0.5~18GHz	May 08, 2020	Feb. 01, 2021~ Feb. 05, 2021	May 07, 2021	Conducted (TH05-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.29
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.32
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.08
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.81	24.07	23.94	26.87	0.4864
20	1	49		23.87	23.85	23.96		
20	1	99		23.88	24.02	24.05		
20	50	0		23.01	22.99	22.93		
20	50	24		22.98	23.07	22.99		
20	50	50		23.06	23.02	23.01		
20	100	0		22.93	23.06	22.94		
20	1	0	16-QAM	23.18	23.09	23.55	26.35	0.4315
20	1	49		23.20	23.28	23.43		
20	1	99		23.20	22.96	23.44		
20	50	0		22.08	22.16	22.00		
20	50	24		22.14	22.22	22.08		
20	50	50		22.21	22.09	22.09		
20	100	0		22.03	22.18	22.04		
20	1	0	64-QAM	22.05	22.17	22.29	25.18	0.3296
20	1	49		22.38	22.32	22.37		
20	1	99		22.34	22.22	22.37		
20	50	0		21.09	21.13	21.11		
20	50	24		21.15	21.21	21.10		
20	50	50		21.18	21.21	21.13		
20	100	0		20.99	21.19	20.99		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG002628-02B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.81	24.05	23.86	26.85	0.4842
15	1	37		23.84	23.84	23.93		
15	1	74		23.85	23.95	24.02		
15	36	0		22.92	22.93	22.88		
15	36	20		22.88	23.07	22.94		
15	36	39		22.98	23.01	22.98		
15	75	0		22.93	23.01	22.84		
15	1	0	16-QAM	23.11	23.00	23.54	26.34	0.4305
15	1	37		23.20	23.20	23.37		
15	1	74		23.16	22.86	23.40		
15	36	0		22.01	22.09	22.00		
15	36	20		22.08	22.18	22.01		
15	36	39		22.19	22.02	22.06		
15	75	0		21.93	22.15	21.99		
15	1	0	64-QAM	22.00	22.15	22.22	25.12	0.3251
15	1	37		22.29	22.27	22.31		
15	1	74		22.28	22.14	22.32		
15	36	0		21.04	21.03	21.05		
15	36	20		21.12	21.12	21.04		
15	36	39		21.08	21.11	21.03		
15	75	0		20.89	21.11	20.97		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.72	24.01	23.86	26.82	0.4808
10	1	25		23.83	23.81	23.87		
10	1	49		23.88	24.02	24.00		
10	25	0		23.00	22.97	22.90		
10	25	12		22.89	23.05	22.93		
10	25	25		23.06	22.94	22.92		
10	50	0		22.91	22.98	22.88		
10	1	0	16-QAM	23.08	23.09	23.50	26.3	0.4266
10	1	25		23.14	23.23	23.43		
10	1	49		23.12	22.96	23.38		
10	25	0		22.02	22.16	21.99		
10	25	12		22.04	22.21	22.02		
10	25	25		22.21	22.06	22.01		
10	50	0		21.94	22.10	22.00		
10	1	0	64-QAM	22.02	22.15	22.27	25.16	0.3281
10	1	25		22.36	22.29	22.36		
10	1	49		22.30	22.22	22.31		
10	25	0		21.04	21.03	21.09		
10	25	12		21.13	21.13	21.06		
10	25	25		21.17	21.21	21.09		
10	50	0		20.91	21.16	20.95		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.72	24.01	23.92	26.81	0.4797
5	1	12		23.79	23.82	23.91		
5	1	24		23.88	23.94	24.01		
5	12	0		23.00	22.90	22.83		
5	12	7		22.91	23.06	22.93		
5	12	13		22.98	22.96	22.93		
5	25	0		22.91	23.06	22.88		
5	1	0	16-QAM	23.13	23.02	23.55	26.35	0.4315
5	1	12		23.18	23.27	23.36		
5	1	24		23.17	22.95	23.44		
5	12	0		22.02	22.07	21.96		
5	12	7		22.11	22.20	22.05		
5	12	13		22.18	22.09	22.00		
5	25	0		21.93	22.14	22.00		
5	1	0	64-QAM	22.01	22.15	22.25	25.17	0.3289
5	1	12		22.33	22.25	22.29		
5	1	24		22.25	22.22	22.37		
5	12	0		21.00	21.11	21.11		
5	12	7		21.10	21.19	21.04		
5	12	13		21.08	21.17	21.07		
5	25	0		20.95	21.13	20.92		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.73	24.05	23.90	26.85	0.4842
3	1	8		23.81	23.75	23.91		
3	1	14		23.86	23.97	24.04		
3	8	0		22.94	22.96	22.93		
3	8	4		22.96	23.07	22.91		
3	8	7		23.06	22.98	22.99		
3	15	0		22.87	23.00	22.87		
3	1	0	16-QAM	23.09	23.06	23.45	26.25	0.4217
3	1	8		23.20	23.24	23.36		
3	1	14		23.17	22.89	23.36		
3	8	0		22.03	22.12	21.93		
3	8	4		22.14	22.15	22.02		
3	8	7		22.19	22.04	22.05		
3	15	0		21.96	22.18	22.04		
3	1	0	64-QAM	21.98	22.07	22.24	25.13	0.3258
3	1	8		22.30	22.31	22.32		
3	1	14		22.32	22.16	22.33		
3	8	0		21.02	21.09	21.02		
3	8	4		21.08	21.14	21.10		
3	8	7		21.18	21.18	21.12		
3	15	0		20.97	21.19	20.94		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.77	24.00	23.88	26.82	0.4808
1.4	1	3		23.83	23.76	23.88		
1.4	1	5		23.83	24.01	23.95		
1.4	3	0		23.81	23.99	23.85		
1.4	3	1		23.85	23.78	23.90		
1.4	3	3		23.88	23.99	24.02		
1.4	6	0		22.87	23.00	22.88		
1.4	1	0	16-QAM	23.17	23.00	23.48	26.28	0.4246
1.4	1	3		23.16	23.22	23.33		
1.4	1	5		23.15	22.92	23.44		
1.4	3	0		23.18	23.01	23.46		
1.4	3	1		23.12	23.28	23.40		
1.4	3	3		23.16	22.89	23.38		
1.4	6	0		21.98	22.14	21.98		
1.4	1	0	64-QAM	22.00	22.07	22.28	25.16	0.3281
1.4	1	3		22.31	22.27	22.36		
1.4	1	5		22.31	22.21	22.27		
1.4	3	0		22.05	22.10	22.28		
1.4	3	1		22.28	22.29	22.33		
1.4	3	3		22.28	22.13	22.35		
1.4	6	0		20.95	21.17	20.99		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.93	23.86	23.79	26.73	0.4710
20	1	49		23.89	23.83	23.85		
20	1	99		23.90	23.80	23.82		
20	50	0		22.88	22.96	22.91		
20	50	24		22.95	23.04	22.83		
20	50	50		22.92	22.98	22.73		
20	100	0		22.97	22.90	22.91		
20	1	0	16-QAM	23.34	23.12	23.47	26.29	0.4256
20	1	49		23.24	23.49	23.37		
20	1	99		23.30	23.18	23.17		
20	50	0		22.02	21.98	22.08		
20	50	24		22.16	22.09	22.00		
20	50	50		21.98	22.08	22.10		
20	100	0		22.02	21.99	22.00		
20	1	0	64-QAM	22.02	22.09	22.31	25.14	0.3266
20	1	49		22.34	22.17	22.04		
20	1	99		22.14	22.30	22.13		
20	50	0		21.04	21.05	21.00		
20	50	24		21.12	21.06	21.07		
20	50	50		21.04	21.09	21.06		
20	100	0		21.19	21.18	21.05		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.90	23.84	23.69	26.70	0.4677
15	1	37		23.80	23.78	23.77		
15	1	74		23.88	23.78	23.82		
15	36	0		22.88	22.90	22.91		
15	36	20		22.95	23.02	22.80		
15	36	39		22.86	22.98	22.64		
15	75	0		22.95	22.86	22.91		
15	1	0	16-QAM	23.24	23.11	23.42	26.22	0.4188
15	1	37		23.17	23.42	23.32		
15	1	74		23.29	23.11	23.16		
15	36	0		21.93	21.90	22.00		
15	36	20		22.09	22.09	21.96		
15	36	39		21.94	22.07	22.05		
15	75	0		22.00	21.98	21.97		
15	1	0	64-QAM	22.00	22.05	22.27	25.12	0.3251
15	1	37		22.32	22.14	22.00		
15	1	74		22.08	22.21	22.07		
15	36	0		20.94	20.97	20.92		
15	36	20		21.03	21.03	21.02		
15	36	39		21.04	20.99	20.96		
15	75	0		21.13	21.18	21.04		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.90	23.83	23.71	26.70	0.4677
10	1	25		23.88	23.77	23.75		
10	1	49		23.88	23.75	23.74		
10	25	0		22.81	22.94	22.81		
10	25	12		22.92	22.98	22.81		
10	25	25		22.90	22.92	22.68		
10	50	0		22.87	22.89	22.83		
10	1	0	16-QAM	23.32	23.03	23.44	26.24	0.4207
10	1	25		23.14	23.40	23.35		
10	1	49		23.22	23.13	23.11		
10	25	0		21.98	21.90	21.99		
10	25	12		22.12	22.05	21.95		
10	25	25		21.89	22.02	22.09		
10	50	0		21.92	21.99	21.94		
10	1	0	64-QAM	21.94	22.02	22.25	25.07	0.3214
10	1	25		22.27	22.13	21.99		
10	1	49		22.05	22.22	22.04		
10	25	0		21.02	21.00	20.95		
10	25	12		21.10	21.00	21.01		
10	25	25		20.99	21.02	20.97		
10	50	0		21.19	21.17	21.03		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.90	23.77	23.78	26.70	0.4677
5	1	12		23.79	23.81	23.80		
5	1	24		23.84	23.79	23.74		
5	12	0		22.81	22.89	22.83		
5	12	7		22.92	23.02	22.77		
5	12	13		22.91	22.92	22.70		
5	25	0		22.95	22.81	22.88		
5	1	0	16-QAM	23.33	23.11	23.46	26.27	0.4236
5	1	12		23.16	23.47	23.32		
5	1	24		23.20	23.09	23.10		
5	12	0		21.93	21.92	22.06		
5	12	7		22.08	21.99	21.93		
5	12	13		21.97	22.02	22.00		
5	25	0		22.00	21.89	21.92		
5	1	0	64-QAM	21.95	22.06	22.21	25.07	0.3214
5	1	12		22.27	22.08	22.01		
5	1	24		22.11	22.23	22.08		
5	12	0		20.94	21.05	20.94		
5	12	7		21.08	20.96	21.06		
5	12	13		20.94	21.01	21.01		
5	25	0		21.11	21.12	21.03		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.92	23.80	23.75	26.72	0.4699
3	1	8		23.79	23.81	23.81		
3	1	14		23.86	23.74	23.81		
3	8	0		22.80	22.95	22.82		
3	8	4		22.90	23.01	22.83		
3	8	7		22.92	22.98	22.63		
3	15	0		22.96	22.80	22.91		
3	1	0	16-QAM	23.26	23.10	23.40	26.24	0.4207
3	1	8		23.19	23.44	23.30		
3	1	14		23.27	23.12	23.11		
3	8	0		21.96	21.95	22.06		
3	8	4		22.07	21.99	21.98		
3	8	7		21.95	22.01	22.04		
3	15	0		21.92	21.89	21.96		
3	1	0	64-QAM	21.96	22.07	22.25	25.10	0.3236
3	1	8		22.30	22.16	21.96		
3	1	14		22.04	22.23	22.12		
3	8	0		20.95	20.97	20.97		
3	8	4		21.10	21.00	21.01		
3	8	7		21.03	21.00	20.97		
3	15	0		21.16	21.15	21.04		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.86	23.86	23.71	26.67	0.4645
1.4	1	3		23.85	23.74	23.81		
1.4	1	5		23.82	23.75	23.81		
1.4	3	0		23.83	23.85	23.70		
1.4	3	1		23.87	23.74	23.85		
1.4	3	3		23.83	23.71	23.78		
1.4	6	0		22.88	22.80	22.81		
1.4	1	0	16-QAM	23.27	23.05	23.38	26.27	0.4236
1.4	1	3		23.14	23.47	23.37		
1.4	1	5		23.24	23.10	23.10		
1.4	3	0		23.32	23.07	23.44		
1.4	3	1		23.23	23.39	23.32		
1.4	3	3		23.29	23.15	23.10		
1.4	6	0		22.01	21.99	21.91		
1.4	1	0	64-QAM	21.98	22.08	22.28	25.12	0.3251
1.4	1	3		22.31	22.16	21.95		
1.4	1	5		22.14	22.21	22.03		
1.4	3	0		22.01	22.08	22.23		
1.4	3	1		22.32	22.16	22.04		
1.4	3	3		22.10	22.27	22.11		
1.4	6	0		21.18	21.16	20.95		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.77	23.92	23.88	26.72	0.4699
20	1	49		23.81	23.90	23.83		
20	1	99		23.86	23.74	23.76		
20	50	0		22.99	22.89	22.90		
20	50	24		22.94	22.92	22.93		
20	50	50		23.06	22.94	22.88		
20	100	0		22.98	22.95	22.88		
20	1	0	16-QAM	23.02	23.46	23.16	26.26	0.4227
20	1	49		23.01	23.36	23.03		
20	1	99		23.23	23.02	23.30		
20	50	0		22.12	22.12	22.01		
20	50	24		22.05	22.02	21.95		
20	50	50		22.11	21.94	21.91		
20	100	0		21.93	22.01	22.02		
20	1	0	64-QAM	21.94	22.38	22.24	25.18	0.3296
20	1	49		22.32	22.28	21.96		
20	1	99		22.22	22.03	22.02		
20	50	0		21.06	21.08	21.15		
20	50	24		21.07	21.12	21.09		
20	50	50		21.05	21.06	20.98		
20	100	0		21.05	21.15	20.99		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.72	23.89	23.87	26.69	0.4667
15	1	37		23.72	23.85	23.77		
15	1	74		23.76	23.70	23.71		
15	36	0		22.92	22.82	22.85		
15	36	20		22.85	22.91	22.90		
15	36	39		23.06	22.84	22.84		
15	75	0		22.90	22.85	22.79		
15	1	0	16-QAM	22.92	23.39	23.09	26.19	0.4159
15	1	37		23.01	23.33	23.02		
15	1	74		23.21	22.94	23.29		
15	36	0		22.09	22.10	21.95		
15	36	20		22.04	21.96	21.95		
15	36	39		22.09	21.89	21.85		
15	75	0		21.90	22.01	21.98		
15	1	0	64-QAM	21.94	22.33	22.23	25.13	0.3258
15	1	37		22.25	22.21	21.91		
15	1	74		22.20	21.94	21.96		
15	36	0		20.97	21.07	21.12		
15	36	20		20.98	21.05	21.08		
15	36	39		20.97	21.06	20.95		
15	75	0		20.98	21.09	20.91		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.76	23.87	23.88	26.68	0.4656
10	1	25		23.73	23.83	23.78		
10	1	49		23.79	23.73	23.67		
10	25	0		22.97	22.89	22.83		
10	25	12		22.94	22.89	22.84		
10	25	25		23.05	22.86	22.87		
10	50	0		22.96	22.89	22.82		
10	1	0	16-QAM	22.92	23.40	23.10	26.20	0.4169
10	1	25		22.97	23.33	23.03		
10	1	49		23.18	22.94	23.21		
10	25	0		22.10	22.04	21.97		
10	25	12		22.02	22.02	21.85		
10	25	25		22.10	21.86	21.91		
10	50	0		21.93	21.97	21.98		
10	1	0	64-QAM	21.86	22.38	22.20	25.18	0.3296
10	1	25		22.24	22.21	21.94		
10	1	49		22.13	22.03	21.95		
10	25	0		21.03	21.01	21.13		
10	25	12		20.99	21.04	21.08		
10	25	25		20.95	21.06	20.89		
10	50	0		20.97	21.08	20.99		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.68	23.86	23.78	26.70	0.4677
5	1	12		23.71	23.90	23.73		
5	1	24		23.78	23.72	23.72		
5	12	0		22.95	22.85	22.81		
5	12	7		22.86	22.83	22.93		
5	12	13		22.99	22.86	22.83		
5	25	0		22.97	22.89	22.83		
5	1	0	16-QAM	22.97	23.46	23.11	26.26	0.4227
5	1	12		22.91	23.30	22.96		
5	1	24		23.23	22.94	23.23		
5	12	0		22.09	22.11	21.96		
5	12	7		21.97	22.02	21.90		
5	12	13		22.11	21.85	21.86		
5	25	0		21.91	21.97	21.92		
5	1	0	64-QAM	21.86	22.33	22.14	25.13	0.3258
5	1	12		22.25	22.18	21.89		
5	1	24		22.21	22.03	21.96		
5	12	0		21.02	21.07	21.09		
5	12	7		21.06	21.09	21.01		
5	12	13		20.99	21.04	20.96		
5	25	0		20.99	21.14	20.90		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.74	23.91	23.82	26.71	0.4688
3	1	8		23.76	23.90	23.81		
3	1	14		23.82	23.72	23.67		
3	8	0		22.97	22.84	22.89		
3	8	4		22.87	22.84	22.92		
3	8	7		22.97	22.86	22.83		
3	15	0		22.89	22.88	22.83		
3	1	0	16-QAM	22.97	23.46	23.10	26.26	0.4227
3	1	8		23.01	23.33	22.96		
3	1	14		23.20	22.93	23.28		
3	8	0		22.11	22.10	21.99		
3	8	4		21.96	21.97	21.88		
3	8	7		22.01	21.93	21.90		
3	15	0		21.88	21.97	22.01		
3	1	0	64-QAM	21.90	22.28	22.14	25.08	0.3221
3	1	8		22.26	22.22	21.95		
3	1	14		22.16	21.95	21.96		
3	8	0		20.96	21.03	21.08		
3	8	4		21.00	21.07	21.07		
3	8	7		21.00	21.05	20.88		
3	15	0		20.96	21.09	20.91		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.75	23.82	23.88	26.68	0.4656
1.4	1	3		23.76	23.88	23.77		
1.4	1	5		23.81	23.67	23.66		
1.4	3	0		23.68	23.82	23.87		
1.4	3	1		23.75	23.85	23.75		
1.4	3	3		23.82	23.65	23.75		
1.4	6	0		22.96	22.92	22.82		
1.4	1	0	16-QAM	23.00	23.41	23.09	26.21	0.4178
1.4	1	3		23.01	23.31	22.98		
1.4	1	5		23.14	23.02	23.29		
1.4	3	0		22.92	23.39	23.10		
1.4	3	1		23.01	23.32	22.94		
1.4	3	3		23.22	22.94	23.29		
1.4	6	0		21.85	21.98	21.95		
1.4	1	0	64-QAM	21.86	22.37	22.19	25.17	0.3289
1.4	1	3		22.24	22.20	21.86		
1.4	1	5		22.19	21.94	21.97		
1.4	3	0		21.91	22.32	22.20		
1.4	3	1		22.28	22.19	21.89		
1.4	3	3		22.14	21.97	21.99		
1.4	6	0		20.97	21.10	20.98		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.98	23.21	23.12	21.76	0.1500
10	1	25		23.11	23.08	23.02		
10	1	49		23.02	23.01	23.06		
10	25	0		22.11	22.18	22.18		
10	25	12		22.21	22.17	22.13		
10	25	25		22.12	22.09	22.12		
10	50	0		22.26	22.15	22.13		
10	1	0	16-QAM	22.34	22.71	22.42	21.29	0.1346
10	1	25		22.41	22.74	22.39		
10	1	49		22.70	22.38	22.65		
10	25	0		21.19	21.25	21.27		
10	25	12		21.27	21.18	21.26		
10	25	25		21.36	21.28	21.15		
10	50	0		21.35	21.22	21.15		
10	1	0	64-QAM	21.54	21.41	21.53	20.09	0.1021
10	1	25		21.42	21.45	21.44		
10	1	49		21.03	21.46	21.45		
10	25	0		20.24	20.34	20.23		
10	25	12		20.30	20.17	20.23		
10	25	25		20.22	20.22	20.15		
10	50	0		20.30	20.26	20.29		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.89	23.19	23.05	21.74	0.1493
5	1	12		23.01	23.04	22.99		
5	1	24		22.97	22.93	22.97		
5	12	0		22.06	22.16	22.15		
5	12	7		22.14	22.15	22.04		
5	12	13		22.07	22.03	22.12		
5	25	0		22.21	22.05	22.05		
5	1	0	16-QAM	22.25	22.63	22.35	21.23	0.1327
5	1	12		22.37	22.68	22.36		
5	1	24		22.62	22.30	22.64		
5	12	0		21.13	21.16	21.20		
5	12	7		21.24	21.09	21.21		
5	12	13		21.27	21.21	21.10		
5	25	0		21.35	21.17	21.09		
5	1	0	64-QAM	21.50	21.36	21.46	20.05	0.1012
5	1	12		21.38	21.43	21.41		
5	1	24		20.97	21.37	21.40		
5	12	0		20.16	20.33	20.18		
5	12	7		20.23	20.14	20.13		
5	12	13		20.13	20.15	20.05		
5	25	0		20.23	20.17	20.25		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.93	23.18	23.04	21.73	0.1489
3	1	8		23.11	23.07	22.98		
3	1	14		23.02	23.00	23.01		
3	8	0		22.07	22.09	22.11		
3	8	4		22.11	22.14	22.03		
3	8	7		22.02	21.99	22.05		
3	15	0		22.16	22.10	22.10		
3	1	0	16-QAM	22.27	22.65	22.37	21.21	0.1321
3	1	8		22.40	22.66	22.31		
3	1	14		22.64	22.34	22.61		
3	8	0		21.16	21.20	21.24		
3	8	4		21.25	21.13	21.16		
3	8	7		21.28	21.24	21.12		
3	15	0		21.30	21.22	21.06		
3	1	0	64-QAM	21.47	21.40	21.46	20.02	0.1005
3	1	8		21.34	21.42	21.44		
3	1	14		20.94	21.40	21.45		
3	8	0		20.23	20.33	20.20		
3	8	4		20.23	20.11	20.22		
3	8	7		20.20	20.22	20.08		
3	15	0		20.25	20.19	20.19		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.89	23.16	23.08	21.74	0.1493
1.4	1	3		23.06	23.08	22.95		
1.4	1	5		23.02	22.95	22.96		
1.4	3	0		22.95	23.19	23.11		
1.4	3	1		23.01	23.05	22.99		
1.4	3	3		23.00	23.01	22.96		
1.4	6	0		22.24	22.09	22.12		
1.4	1	0	16-QAM	22.31	22.61	22.39	21.28	0.1343
1.4	1	3		22.35	22.73	22.33		
1.4	1	5		22.68	22.30	22.57		
1.4	3	0		22.24	22.65	22.42		
1.4	3	1		22.35	22.72	22.33		
1.4	3	3		22.66	22.36	22.56		
1.4	6	0		21.28	21.16	21.14		
1.4	1	0	64-QAM	21.53	21.41	21.53	20.09	0.1021
1.4	1	3		21.32	21.45	21.39		
1.4	1	5		20.94	21.37	21.44		
1.4	3	0		21.54	21.40	21.53		
1.4	3	1		21.34	21.37	21.41		
1.4	3	3		20.98	21.39	21.42		
1.4	6	0		20.21	20.23	20.29		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.66	23.41	23.30	24.96	0.3133
20	1	49		23.59	23.25	23.19		
20	1	99		23.44	23.21	23.13		
20	50	0		22.53	22.42	22.28		
20	50	24		22.56	22.28	22.22		
20	50	50		22.48	22.19	22.31		
20	100	0		22.50	22.33	22.21		
20	1	0	16-QAM	22.82	22.40	22.47	24.64	0.2911
20	1	49		23.34	22.55	22.38		
20	1	99		22.51	22.42	22.27		
20	50	0		21.70	21.41	21.39		
20	50	24		21.64	21.53	21.29		
20	50	50		21.61	21.40	21.39		
20	100	0		21.55	21.43	21.29		
20	1	0	64-QAM	22.03	21.91	21.96	23.33	0.2153
20	1	49		21.68	21.50	21.63		
20	1	99		21.68	21.79	21.48		
20	50	0		20.65	20.41	20.44		
20	50	24		20.63	20.41	20.45		
20	50	50		20.58	20.36	20.33		
20	100	0		20.61	20.40	20.38		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.50	23.60	23.41	24.90	0.3090
15	1	37		23.52	23.29	23.30		
15	1	74		23.59	23.03	23.11		
15	36	0		22.62	22.23	22.34		
15	36	20		22.72	22.36	22.07		
15	36	39		22.60	22.14	22.24		
15	75	0		22.32	22.13	22.01		
15	1	0	16-QAM	22.87	22.31	22.33	24.78	0.3006
15	1	37		23.48	22.70	22.36		
15	1	74		22.52	22.42	22.11		
15	36	0		21.73	21.42	21.31		
15	36	20		21.66	21.35	21.16		
15	36	39		21.48	21.46	21.27		
15	75	0		21.62	21.44	21.17		
15	1	0	64-QAM	22.02	21.79	21.91	23.32	0.2148
15	1	37		21.52	21.61	21.69		
15	1	74		21.59	21.61	21.29		
15	36	0		20.74	20.31	20.27		
15	36	20		20.73	20.41	20.63		
15	36	39		20.55	20.24	20.32		
15	75	0		20.66	20.54	20.51		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.54	23.30	23.20	24.95	0.3126
10	1	25		23.65	23.44	23.01		
10	1	49		23.49	23.35	23.09		
10	25	0		22.53	22.48	22.33		
10	25	12		22.64	22.21	22.26		
10	25	25		22.58	22.15	22.40		
10	50	0		22.47	22.20	22.41		
10	1	0	16-QAM	22.89	22.52	22.59	24.45	0.2786
10	1	25		23.15	22.63	22.18		
10	1	49		22.44	22.58	22.30		
10	25	0		21.62	21.36	21.50		
10	25	12		21.77	21.53	21.39		
10	25	25		21.80	21.43	21.25		
10	50	0		21.54	21.39	21.44		
10	1	0	64-QAM	22.13	21.84	21.78	23.43	0.2203
10	1	25		21.74	21.46	21.48		
10	1	49		21.55	21.83	21.57		
10	25	0		20.54	20.45	20.61		
10	25	12		20.74	20.26	20.42		
10	25	25		20.49	20.38	20.52		
10	50	0		20.75	20.21	20.52		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.51	23.35	23.26	24.84	0.3048
5	1	12		23.47	23.19	23.26		
5	1	24		23.54	23.22	22.98		
5	12	0		22.58	22.45	22.08		
5	12	7		22.50	22.08	22.12		
5	12	13		22.66	22.16	22.23		
5	25	0		22.32	22.15	22.11		
5	1	0	16-QAM	22.66	22.59	22.49	24.72	0.2965
5	1	12		23.42	22.68	22.37		
5	1	24		22.33	22.62	22.23		
5	12	0		21.77	21.56	21.49		
5	12	7		21.76	21.58	21.46		
5	12	13		21.80	21.58	21.28		
5	25	0		21.44	21.47	21.46		
5	1	0	64-QAM	21.99	21.88	21.95	23.29	0.2133
5	1	12		21.52	21.46	21.49		
5	1	24		21.70	21.77	21.60		
5	12	0		20.53	20.24	20.45		
5	12	7		20.71	20.26	20.56		
5	12	13		20.60	20.32	20.42		
5	25	0		20.73	20.57	20.30		
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.50	23.12	23.22	21.35	0.1365
10	1	25		23.30	23.17	23.26		
10	1	49		23.33	23.30	23.20		
10	25	0		22.42	22.24	22.19		
10	25	12		22.38	22.27	22.23		
10	25	25		22.39	22.29	22.25		
10	50	0		22.41	22.31	22.22		
10	1	0	16-QAM	22.85	22.85	22.61	20.7	0.1175
10	1	25		22.80	22.30	22.56		
10	1	49		22.43	22.29	22.51		
10	25	0		21.50	21.38	21.37		
10	25	12		21.48	21.39	21.31		
10	25	25		21.47	21.43	21.41		
10	50	0		21.52	21.36	21.33		
10	1	0	64-QAM	21.63	21.58	21.36	19.66	0.0925
10	1	25		21.81	21.10	21.44		
10	1	49		21.70	21.13	21.68		
10	25	0		20.51	20.40	20.35		
10	25	12		20.50	20.36	20.40		
10	25	25		20.53	20.31	20.30		
10	50	0		20.52	20.36	20.32		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.46	23.12	23.19	21.31	0.1352
5	1	12		23.23	23.07	23.25		
5	1	24		23.27	23.22	23.16		
5	12	0		22.32	22.16	22.14		
5	12	7		22.29	22.20	22.22		
5	12	13		22.36	22.20	22.25		
5	25	0		22.36	22.25	22.19		
5	1	0	16-QAM	22.75	22.85	22.58	20.7	0.1175
5	1	12		22.74	22.23	22.49		
5	1	24		22.42	22.23	22.41		
5	12	0		21.48	21.30	21.28		
5	12	7		21.41	21.30	21.30		
5	12	13		21.40	21.43	21.34		
5	25	0		21.45	21.28	21.24		
5	1	0	64-QAM	21.56	21.48	21.34	19.62	0.0916
5	1	12		21.77	21.00	21.40		
5	1	24		21.70	21.05	21.58		
5	12	0		20.44	20.31	20.31		
5	12	7		20.47	20.27	20.38		
5	12	13		20.43	20.28	20.25		
5	25	0		20.46	20.36	20.22		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.41	23.06	23.17	21.26	0.1337
3	1	8		23.25	23.10	23.17		
3	1	14		23.32	23.29	23.13		
3	8	0		22.42	22.21	22.19		
3	8	4		22.30	22.24	22.20		
3	8	7		22.36	22.29	22.22		
3	15	0		22.36	22.24	22.19		
3	1	0	16-QAM	22.76	22.78	22.57	20.63	0.1156
3	1	8		22.77	22.20	22.54		
3	1	14		22.34	22.20	22.49		
3	8	0		21.49	21.28	21.36		
3	8	4		21.47	21.39	21.27		
3	8	7		21.40	21.37	21.34		
3	15	0		21.50	21.31	21.26		
3	1	0	64-QAM	21.58	21.55	21.35	19.62	0.0916
3	1	8		21.77	21.01	21.34		
3	1	14		21.63	21.06	21.58		
3	8	0		20.41	20.33	20.31		
3	8	4		20.42	20.35	20.40		
3	8	7		20.49	20.25	20.26		
3	15	0		20.42	20.28	20.29		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.48	23.05	23.13	21.33	0.1358
1.4	1	3		23.30	23.09	23.23		
1.4	1	5		23.33	23.20	23.13		
1.4	3	0		23.42	23.08	23.22		
1.4	3	1		23.27	23.08	23.19		
1.4	3	3		23.31	23.28	23.12		
1.4	6	0		22.32	22.31	22.12		
1.4	1	0	16-QAM	22.78	22.76	22.54	20.69	0.1172
1.4	1	3		22.75	22.26	22.54		
1.4	1	5		22.34	22.21	22.50		
1.4	3	0		22.80	22.84	22.56		
1.4	3	1		22.78	22.30	22.54		
1.4	3	3		22.33	22.28	22.49		
1.4	6	0		21.44	21.32	21.30		
1.4	1	0	64-QAM	21.55	21.56	21.29	19.66	0.0925
1.4	1	3		21.79	21.10	21.42		
1.4	1	5		21.65	21.03	21.59		
1.4	3	0		21.61	21.48	21.26		
1.4	3	1		21.81	21.01	21.44		
1.4	3	3		21.69	21.05	21.63		
1.4	6	0		20.46	20.28	20.22		
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK		22.63		20.5	0.1122
10	1	25			22.65			
10	1	49			22.63			
10	25	0			21.72			
10	25	12			21.66			
10	25	25			21.57			
10	50	0			21.63			
10	1	0	16-QAM	-	22.32	-	20.17	0.1040
10	1	25			21.91			
10	1	49			21.70			
10	25	0			20.89			
10	25	12			20.76			
10	25	25			20.80			
10	50	0			20.82			
10	1	0	64-QAM		20.59		18.52	0.0711
10	1	25			20.58			
10	1	49			20.67			
10	25	0			19.83			
10	25	12			19.85			
10	25	25			19.75			
10	50	0			19.78			
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.52	22.58	22.51	20.43	0.1104
5	1	12		22.53	22.53	22.52		
5	1	24		22.50	22.57	22.51		
5	12	0		21.63	21.70	21.66		
5	12	7		21.54	21.58	21.51		
5	12	13		21.59	21.59	21.52		
5	25	0		21.59	21.61	21.54		
5	1	0	16-QAM	22.24	22.30	22.10	20.15	0.1035
5	1	12		21.84	21.88	21.83		
5	1	24		21.64	21.68	21.61		
5	12	0		20.80	20.82	20.65		
5	12	7		20.53	20.70	20.53		
5	12	13		20.66	20.70	20.50		
5	25	0		20.64	20.82	20.63		
5	1	0	64-QAM	20.48	20.54	20.54	18.46	0.0701
5	1	12		20.54	20.58	20.56		
5	1	24		20.53	20.61	20.53		
5	12	0		19.71	19.77	19.67		
5	12	7		19.78	19.82	19.73		
5	12	13		19.52	19.65	19.56		
5	25	0		19.75	19.75	19.61		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.17	23.35	23.19	21.2	0.1318
10	1	25		23.19	23.24	23.28		
10	1	49		23.28	23.19	23.31		
10	25	0		22.36	22.27	22.30		
10	25	12		22.39	22.42	22.30		
10	25	25		22.34	22.28	22.25		
10	50	0		22.29	22.29	22.31		
10	1	0	16-QAM	22.75	22.33	22.71	20.7	0.1175
10	1	25		22.81	22.75	22.78		
10	1	49		22.81	22.85	22.73		
10	25	0		21.44	21.37	21.43		
10	25	12		21.38	21.44	21.40		
10	25	25		21.37	21.45	21.40		
10	50	0		21.39	21.39	21.41		
10	1	0	64-QAM	21.32	21.62	21.35	19.55	0.0902
10	1	25		21.24	21.64	21.70		
10	1	49		21.24	21.16	21.68		
10	25	0		20.57	20.44	20.37		
10	25	12		20.50	20.36	20.45		
10	25	25		20.39	20.52	20.52		
10	50	0		20.44	20.42	20.42		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = 0 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.13	23.29	23.16	21.14	0.1300
5	1	12		23.17	23.14	23.21		
5	1	24		23.22	23.14	23.28		
5	12	0		22.36	22.25	22.20		
5	12	7		22.31	22.36	22.30		
5	12	13		22.32	22.27	22.19		
5	25	0		22.28	22.27	22.29		
5	1	0	16-QAM	22.68	22.31	22.71	20.62	0.1153
5	1	12		22.76	22.67	22.74		
5	1	24		22.76	22.77	22.66		
5	12	0		21.43	21.33	21.37		
5	12	7		21.34	21.44	21.37		
5	12	13		21.35	21.43	21.32		
5	25	0		21.29	21.36	21.41		
5	1	0	64-QAM	21.24	21.58	21.31	19.5	0.0891
5	1	12		21.19	21.63	21.65		
5	1	24		21.14	21.10	21.64		
5	12	0		20.55	20.42	20.27		
5	12	7		20.45	20.32	20.40		
5	12	13		20.31	20.48	20.51		
5	25	0		20.44	20.34	20.36		
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.05	23.09	23.23	21.78	0.1507
15	1	37		23.01	23.09	23.13		
15	1	74		23.07	23.10	23.19		
15	36	0		22.00	22.19	22.11		
15	36	20		22.15	22.18	22.21		
15	36	39		22.13	22.08	22.14		
15	75	0		22.17	22.14	22.22		
15	1	0	16-QAM	22.10	22.18	22.38	21.34	0.1361
15	1	37		22.47	22.73	22.53		
15	1	74		22.64	22.45	22.79		
15	36	0		21.19	21.27	21.16		
15	36	20		21.23	21.19	21.36		
15	36	39		21.18	21.21	21.30		
15	75	0		21.22	21.23	21.26		
15	1	0	64-QAM	21.48	21.38	21.30	20.13	0.1030
15	1	37		21.20	21.53	21.52		
15	1	74		21.27	21.58	21.35		
15	36	0		20.18	20.30	20.23		
15	36	20		20.29	20.25	20.38		
15	36	39		20.15	20.18	20.27		
15	75	0		20.15	20.21	20.30		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.95	23.09	23.20	21.75	0.1496
10	1	25		22.99	23.06	23.13		
10	1	49		22.99	23.03	23.19		
10	25	0		21.94	22.09	22.11		
10	25	12		22.07	22.09	22.19		
10	25	25		22.05	22.00	22.10		
10	50	0		22.16	22.14	22.17		
10	1	0	16-QAM	22.10	22.08	22.34	21.31	0.1352
10	1	25		22.45	22.71	22.45		
10	1	49		22.55	22.37	22.76		
10	25	0		21.17	21.18	21.15		
10	25	12		21.16	21.09	21.36		
10	25	25		21.13	21.11	21.27		
10	50	0		21.17	21.20	21.25		
10	1	0	64-QAM	21.43	21.30	21.21	20.08	0.1019
10	1	25		21.12	21.43	21.52		
10	1	49		21.20	21.53	21.34		
10	25	0		20.16	20.23	20.19		
10	25	12		20.19	20.21	20.34		
10	25	25		20.14	20.11	20.27		
10	50	0		20.11	20.21	20.25		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.96	23.09	23.16	21.74	0.1493
5	1	12		23.01	23.08	23.04		
5	1	24		23.06	23.03	23.19		
5	12	0		21.95	22.16	22.09		
5	12	7		22.07	22.10	22.20		
5	12	13		22.04	21.98	22.09		
5	25	0		22.08	22.10	22.20		
5	1	0	16-QAM	22.06	22.17	22.37	21.34	0.1361
5	1	12		22.45	22.72	22.52		
5	1	24		22.64	22.39	22.79		
5	12	0		21.18	21.19	21.14		
5	12	7		21.14	21.11	21.35		
5	12	13		21.18	21.17	21.28		
5	25	0		21.13	21.18	21.17		
5	1	0	64-QAM	21.40	21.33	21.20	20.11	0.1026
5	1	12		21.18	21.53	21.43		
5	1	24		21.20	21.56	21.32		
5	12	0		20.12	20.23	20.13		
5	12	7		20.28	20.21	20.38		
5	12	13		20.14	20.13	20.23		
5	25	0		20.13	20.12	20.29		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.98	23.09	23.16	21.71	0.1483
3	1	8		22.92	23.01	23.03		
3	1	14		23.03	23.01	23.16		
3	8	0		21.96	22.09	22.09		
3	8	4		22.10	22.11	22.11		
3	8	7		22.08	21.99	22.13		
3	15	0		22.14	22.14	22.15		
3	1	0	16-QAM	22.07	22.16	22.37	21.26	0.1337
3	1	8		22.43	22.70	22.49		
3	1	14		22.58	22.38	22.71		
3	8	0		21.18	21.27	21.10		
3	8	4		21.15	21.13	21.31		
3	8	7		21.14	21.13	21.22		
3	15	0		21.14	21.21	21.16		
3	1	0	64-QAM	21.39	21.28	21.26	20.08	0.1019
3	1	8		21.16	21.50	21.50		
3	1	14		21.18	21.53	21.35		
3	8	0		20.15	20.21	20.14		
3	8	4		20.21	20.23	20.34		
3	8	7		20.14	20.16	20.20		
3	15	0		20.09	20.14	20.20		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.02	23.04	23.18	21.73	0.1489
1.4	1	3		22.97	23.05	23.10		
1.4	1	5		23.05	23.02	23.13		
1.4	3	0		23.01	22.99	23.18		
1.4	3	1		22.95	23.05	23.03		
1.4	3	3		23.05	23.04	23.18		
1.4	6	0		22.07	22.10	22.22		
1.4	1	0	16-QAM	22.07	22.09	22.35	21.77	0.1503
1.4	1	3		22.40	22.64	22.51		
1.4	1	5		22.61	22.43	22.70		
1.4	3	0		23.02	23.09	23.22		
1.4	3	1		22.99	23.03	23.13		
1.4	3	3		23.06	23.01	23.15		
1.4	6	0		21.12	21.13	21.16		
1.4	1	0	64-QAM	21.41	21.28	21.29	20.13	0.1030
1.4	1	3		21.18	21.52	21.44		
1.4	1	5		21.19	21.48	21.32		
1.4	3	0		21.47	21.35	21.24		
1.4	3	1		21.14	21.47	21.45		
1.4	3	3		21.25	21.58	21.34		
1.4	6	0		20.07	20.19	20.26		
Limit	ERP < 7W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.91	23.79	23.53	26.71	0.4688
20	1	49		23.87	23.71	23.47		
20	1	99		23.66	23.51	23.32		
20	50	0		22.77	22.60	22.46		
20	50	24		22.78	22.67	22.40		
20	50	50		22.64	22.53	22.42		
20	100	0		22.74	22.61	22.43		
20	1	0	16-QAM	23.11	23.05	22.85	25.95	0.3936
20	1	49		23.15	23.10	22.77		
20	1	99		23.02	22.88	22.54		
20	50	0		21.86	21.76	21.53		
20	50	24		21.79	21.70	21.56		
20	50	50		21.82	21.61	21.46		
20	100	0		21.80	21.70	21.52		
20	1	0	64-QAM	22.04	22.04	21.81	24.92	0.3105
20	1	49		22.12	21.98	21.79		
20	1	99		21.97	21.78	21.52		
20	50	0		20.96	20.80	20.57		
20	50	24		20.81	20.69	20.56		
20	50	50		20.79	20.68	20.46		
20	100	0		20.81	20.64	20.49		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.81	23.75	23.44	26.61	0.4581
15	1	37		23.78	23.70	23.43		
15	1	74		23.64	23.49	23.32		
15	36	0		22.72	22.52	22.42		
15	36	20		22.70	22.63	22.36		
15	36	39		22.59	22.43	22.35		
15	75	0		22.64	22.55	22.43		
15	1	0	16-QAM	23.08	23.03	22.76	25.88	0.3873
15	1	37		23.06	23.05	22.70		
15	1	74		22.97	22.85	22.47		
15	36	0		21.77	21.69	21.50		
15	36	20		21.76	21.67	21.47		
15	36	39		21.78	21.52	21.37		
15	75	0		21.73	21.68	21.43		
15	1	0	64-QAM	21.98	22.03	21.75	24.90	0.3090
15	1	37		22.10	21.89	21.72		
15	1	74		21.87	21.78	21.51		
15	36	0		20.88	20.74	20.52		
15	36	20		20.80	20.59	20.52		
15	36	39		20.74	20.67	20.36		
15	75	0		20.81	20.62	20.40		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.84	23.78	23.47	26.65	0.4624
10	1	25		23.85	23.63	23.38		
10	1	49		23.59	23.47	23.29		
10	25	0		22.72	22.56	22.38		
10	25	12		22.74	22.66	22.33		
10	25	25		22.58	22.45	22.35		
10	50	0		22.74	22.51	22.34		
10	1	0	16-QAM	23.11	23.03	22.81	25.93	0.3917
10	1	25		23.13	23.08	22.68		
10	1	49		22.94	22.80	22.48		
10	25	0		21.81	21.66	21.50		
10	25	12		21.76	21.67	21.55		
10	25	25		21.74	21.60	21.42		
10	50	0		21.71	21.60	21.42		
10	1	0	64-QAM	22.01	21.96	21.81	24.92	0.3105
10	1	25		22.12	21.93	21.71		
10	1	49		21.89	21.74	21.43		
10	25	0		20.87	20.75	20.55		
10	25	12		20.73	20.68	20.50		
10	25	25		20.70	20.63	20.39		
10	50	0		20.79	20.58	20.41		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.84	23.77	23.45	26.64	0.4613
5	1	12		23.84	23.61	23.46		
5	1	24		23.58	23.50	23.24		
5	12	0		22.71	22.58	22.36		
5	12	7		22.70	22.57	22.36		
5	12	13		22.54	22.44	22.35		
5	25	0		22.67	22.60	22.35		
5	1	0	16-QAM	23.02	22.99	22.75	25.89	0.3882
5	1	12		23.09	23.09	22.73		
5	1	24		23.02	22.85	22.52		
5	12	0		21.83	21.72	21.50		
5	12	7		21.76	21.63	21.52		
5	12	13		21.74	21.52	21.36		
5	25	0		21.77	21.64	21.49		
5	1	0	64-QAM	22.04	21.98	21.73	24.92	0.3105
5	1	12		22.12	21.88	21.75		
5	1	24		21.96	21.72	21.45		
5	12	0		20.92	20.70	20.51		
5	12	7		20.75	20.66	20.51		
5	12	13		20.78	20.59	20.44		
5	25	0		20.79	20.54	20.46		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.85	23.76	23.50	26.67	0.4645
3	1	8		23.87	23.63	23.46		
3	1	14		23.58	23.50	23.26		
3	8	0		22.75	22.51	22.43		
3	8	4		22.77	22.65	22.39		
3	8	7		22.60	22.46	22.37		
3	15	0		22.70	22.54	22.33		
3	1	0	16-QAM	23.08	23.02	22.81	25.92	0.3908
3	1	8		23.12	23.09	22.74		
3	1	14		23.01	22.87	22.49		
3	8	0		21.82	21.72	21.44		
3	8	4		21.78	21.67	21.56		
3	8	7		21.74	21.54	21.42		
3	15	0		21.72	21.62	21.47		
3	1	0	64-QAM	21.95	22.02	21.75	24.87	0.3069
3	1	8		22.07	21.98	21.70		
3	1	14		21.94	21.72	21.51		
3	8	0		20.92	20.72	20.47		
3	8	4		20.73	20.64	20.53		
3	8	7		20.69	20.64	20.36		
3	15	0		20.73	20.61	20.40		
Limit	EIRP < 1W			Result			Pass	



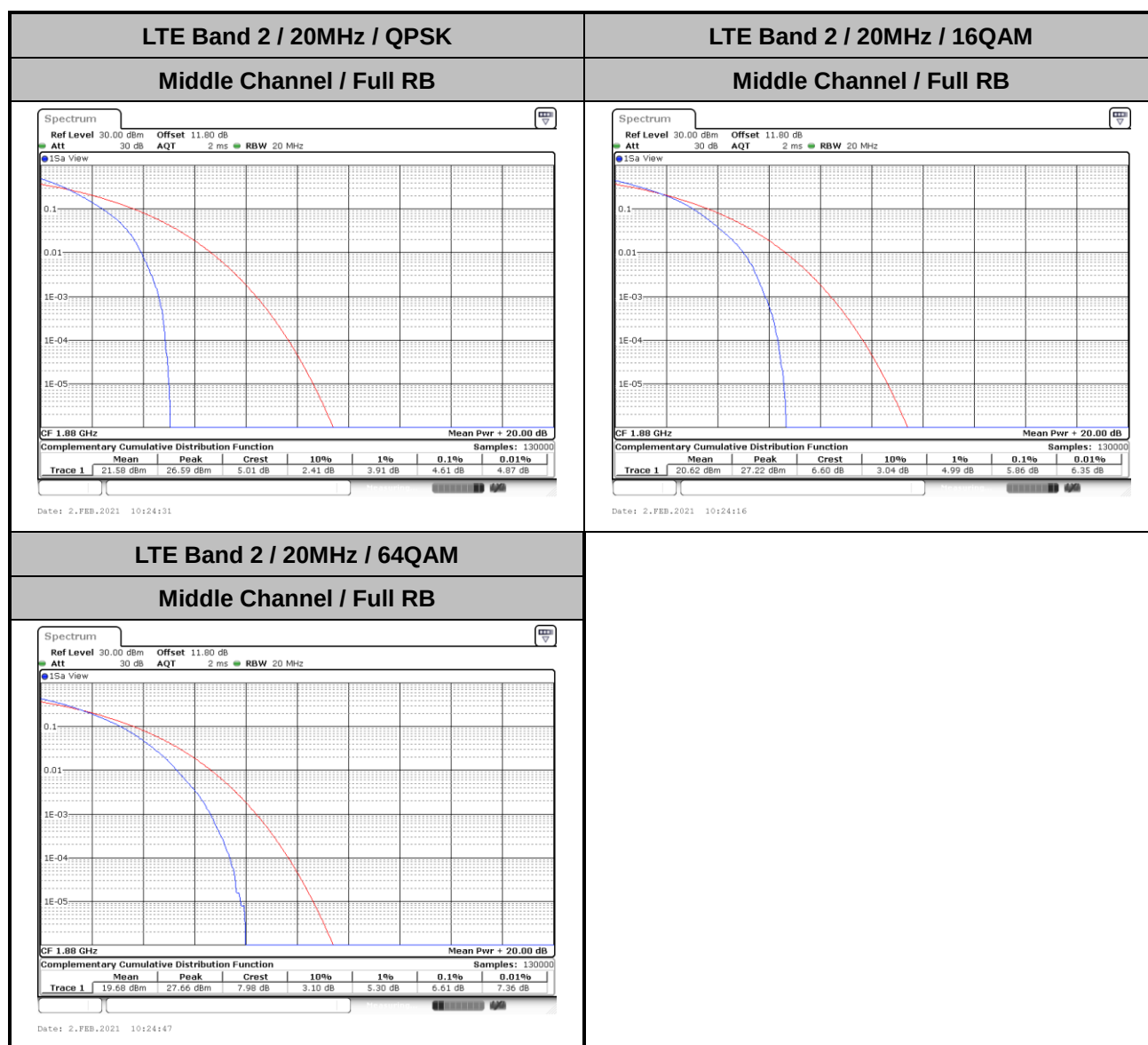
LTE Band 66 Maximum Average Power [dBm] (GT - LC = 2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.88	23.71	23.51	26.68	0.4656
1.4	1	3		23.78	23.65	23.39		
1.4	1	5		23.56	23.42	23.30		
1.4	3	0		23.88	23.72	23.48		
1.4	3	1		23.81	23.67	23.38		
1.4	3	3		23.56	23.51	23.28		
1.4	6	0		22.73	22.60	22.40		
1.4	1	0	16-QAM	23.09	22.97	22.75	25.93	0.3917
1.4	1	3		23.11	23.02	22.77		
1.4	1	5		22.95	22.83	22.51		
1.4	3	0		23.03	23.02	22.85		
1.4	3	1		23.13	23.04	22.70		
1.4	3	3		22.99	22.81	22.50		
1.4	6	0		21.72	21.63	21.52		
1.4	1	0	64-QAM	21.94	21.97	21.80	24.89	0.3083
1.4	1	3		22.09	21.93	21.79		
1.4	1	5		21.94	21.68	21.43		
1.4	3	0		21.94	22.00	21.74		
1.4	3	1		22.02	21.97	21.75		
1.4	3	3		21.92	21.71	21.45		
1.4	6	0		20.77	20.60	20.43		
Limit	EIRP < 1W			Result			Pass	



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	4.61	5.86	6.61	PASS



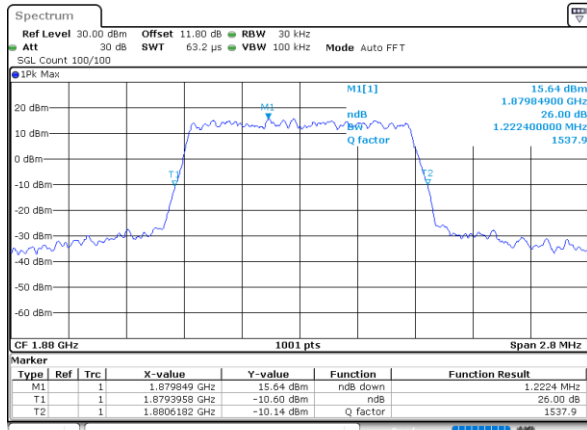
**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.22	1.24	3.05	3.05	4.99	4.92	9.83	10.01	14.42	14.24	18.94	18.86
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.21	-	2.98	-	4.92	-	9.71	-	14.39	-	19.14	-

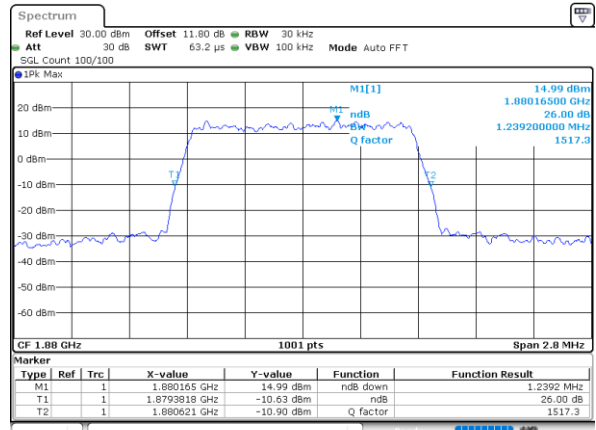


LTE Band 2

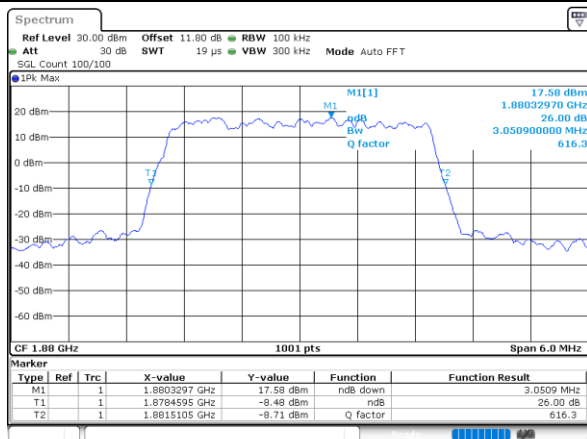
Middle Channel / 1.4MHz / QPSK



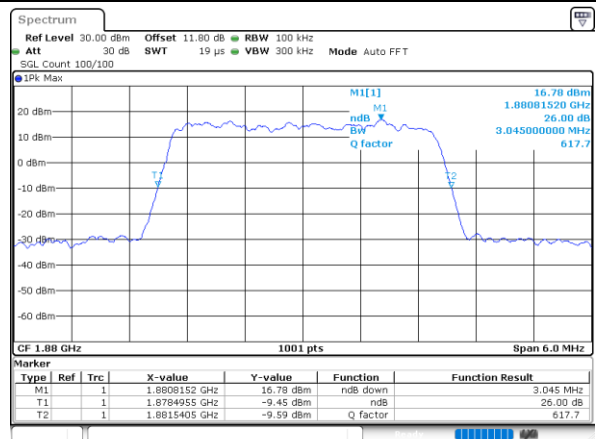
Middle Channel / 1.4MHz / 16QAM



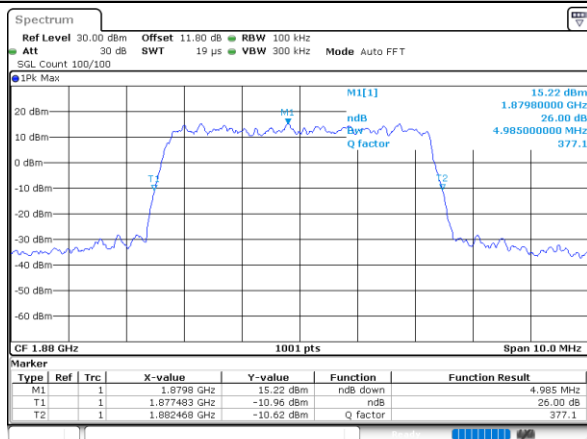
Middle Channel / 3MHz / QPSK



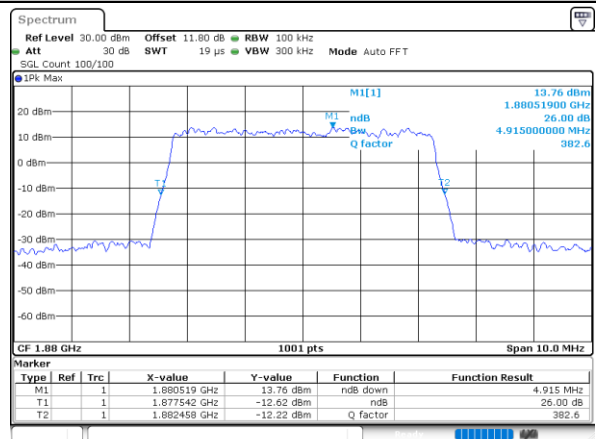
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



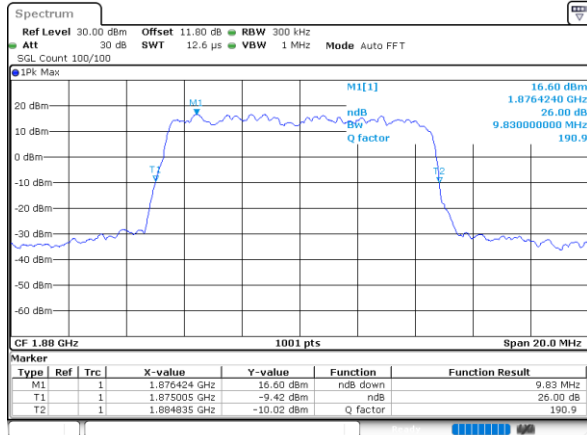
Middle Channel / 5MHz / 16QAM





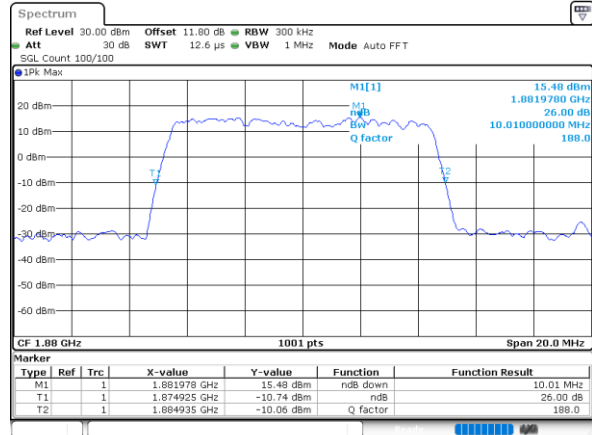
LTE Band 2

Middle Channel / 10MHz / QPSK



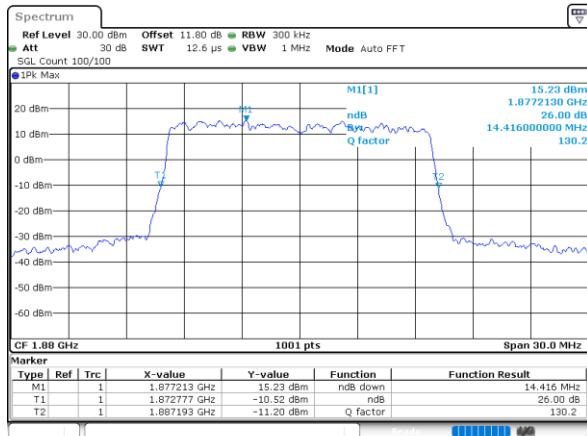
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Middle Channel / 10MHz / 16QAM



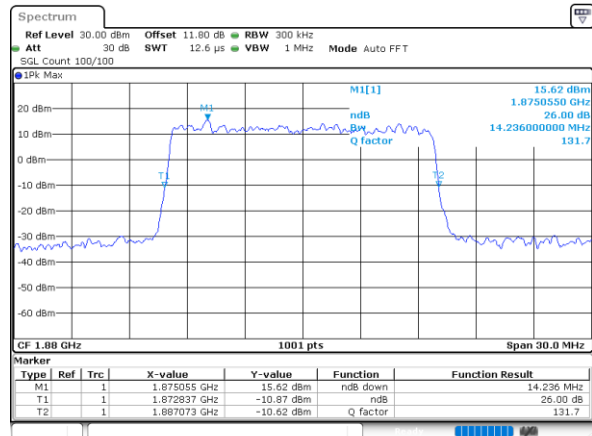
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Middle Channel / 15MHz / QPSK



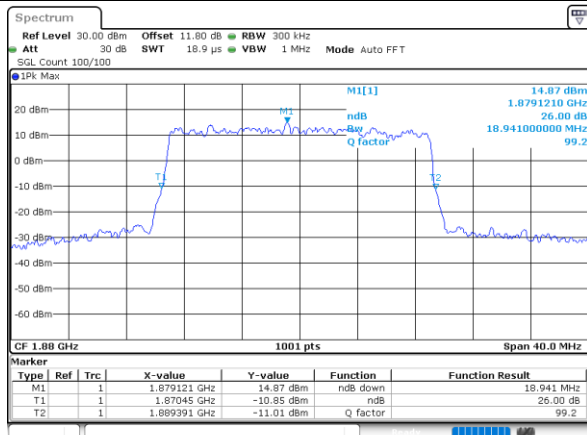
Date: 2.FEB.2021 09:56:00

Middle Channel / 15MHz / 16QAM



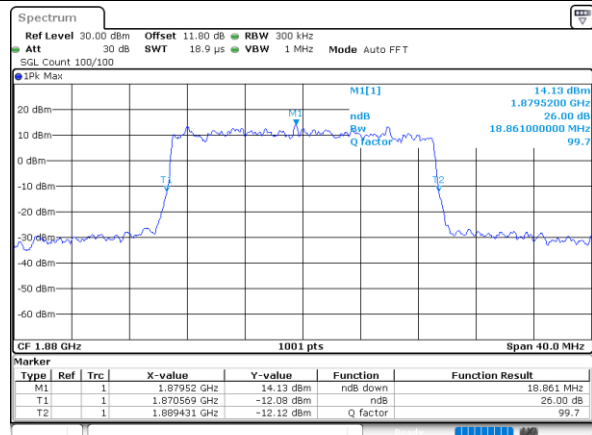
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Middle Channel / 20MHz / QPSK



Date: 2.FEB.2021 10:04:23

Middle Channel / 20MHz / 16QAM

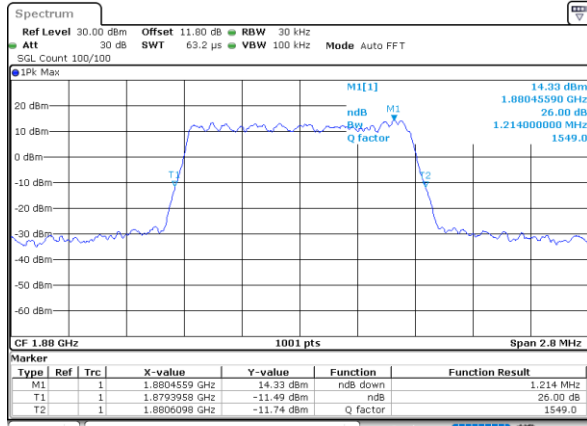


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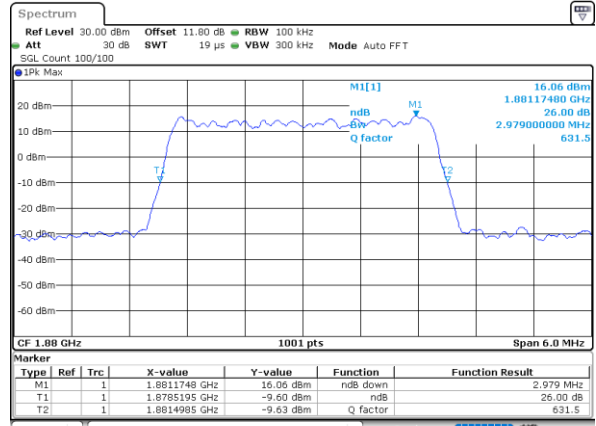


LTE Band 2

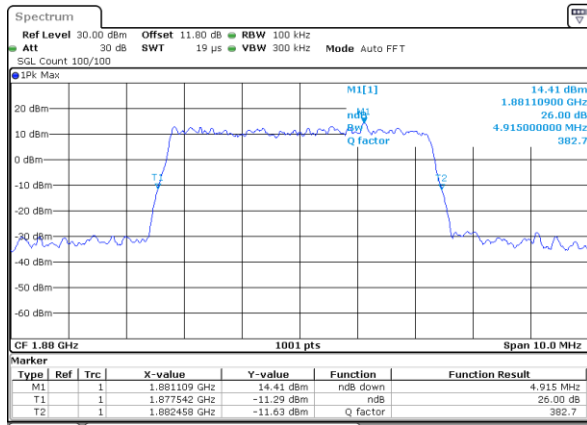
Middle Channel / 1.4MHz / 64QAM



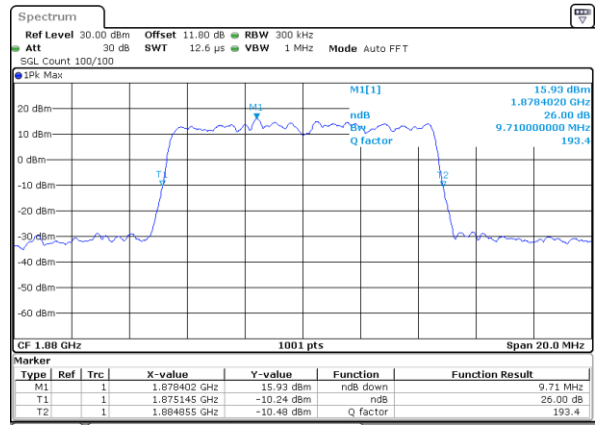
Middle Channel / 3MHz / 64QAM



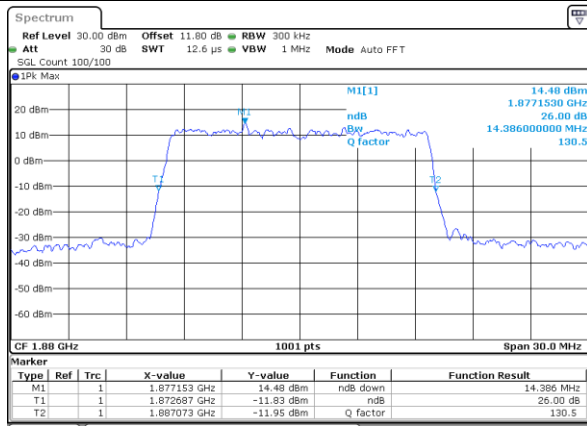
Middle Channel / 5MHz / 64QAM



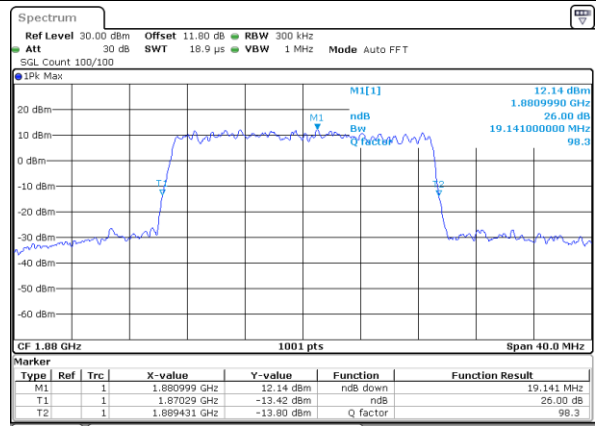
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



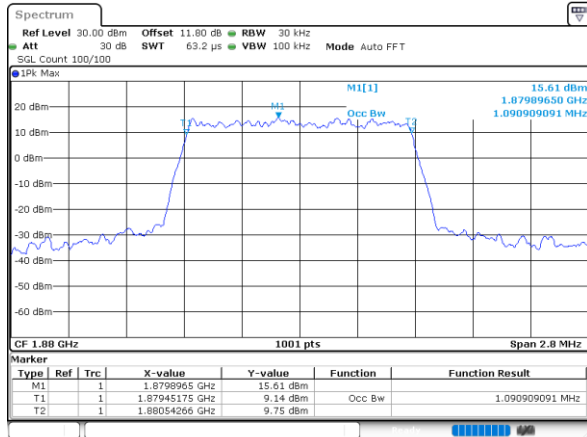
**Occupied Bandwidth**

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.74	2.72	4.50	4.50	8.97	9.05	13.40	13.46	17.86	17.86
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.09	-	2.75	-	4.48	-	9.03	-	13.43	-	17.90	-

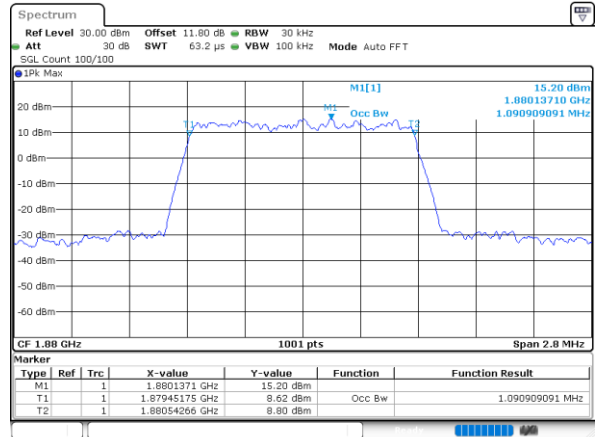


LTE Band 2

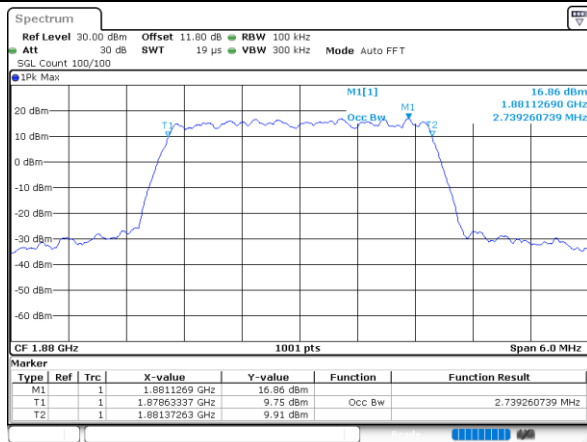
Middle Channel / 1.4MHz / QPSK



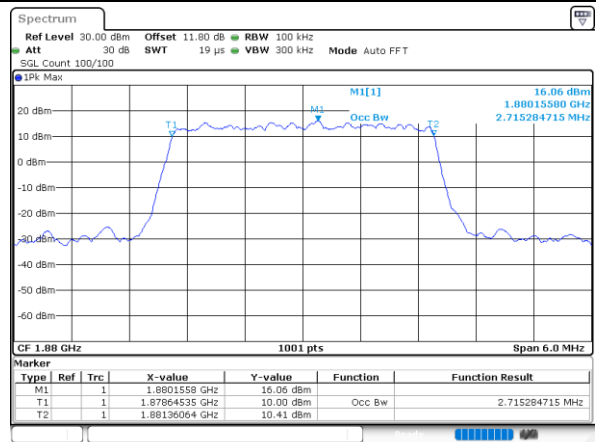
Middle Channel / 1.4MHz / 16QAM



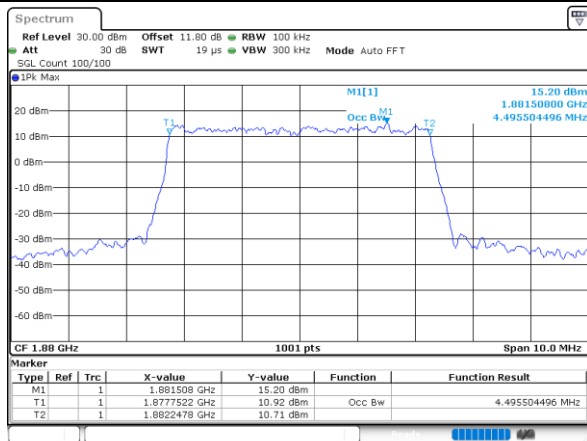
Middle Channel / 3MHz / QPSK



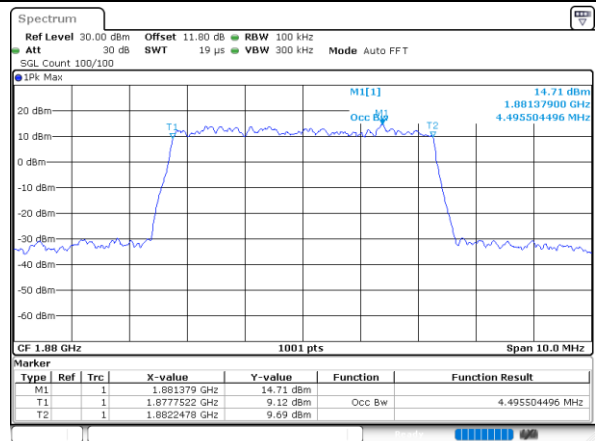
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



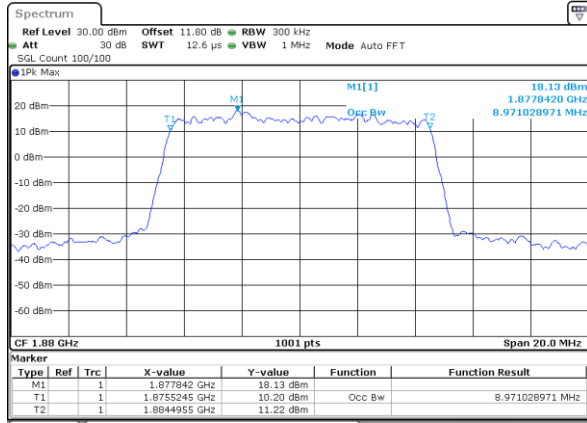
Middle Channel / 5MHz / 16QAM





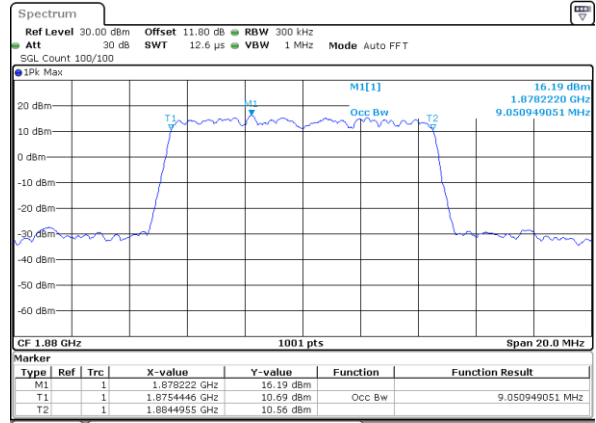
LTE Band 2

Middle Channel / 10MHz / QPSK



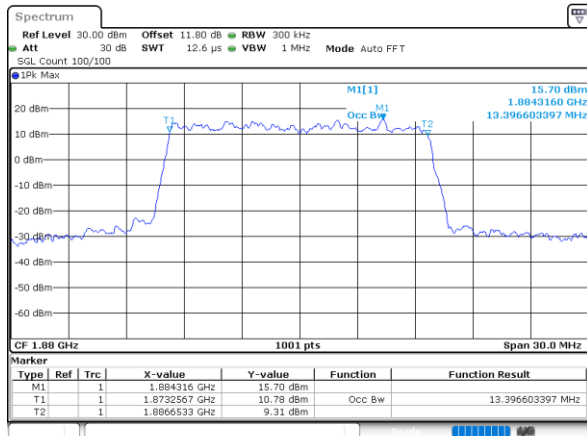
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Middle Channel / 10MHz / 16QAM



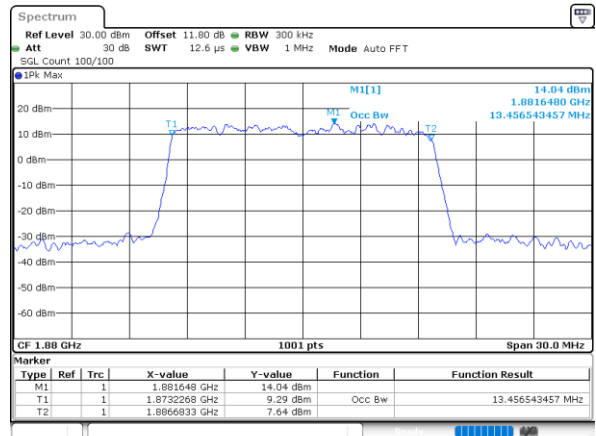
Date: 2.FEB.2021 09:47:23

Middle Channel / 15MHz / QPSK



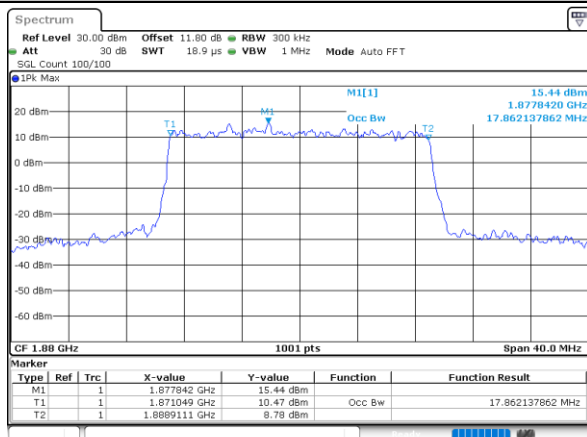
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Middle Channel / 15MHz / 16QAM



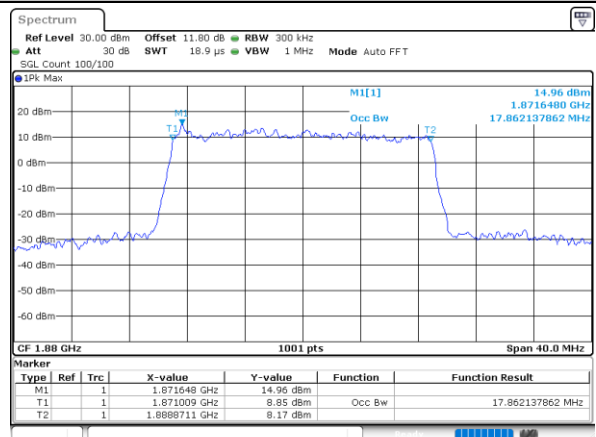
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Middle Channel / 20MHz / QPSK



Date: 2.FEB.2021 10:03:56

Middle Channel / 20MHz / 16QAM

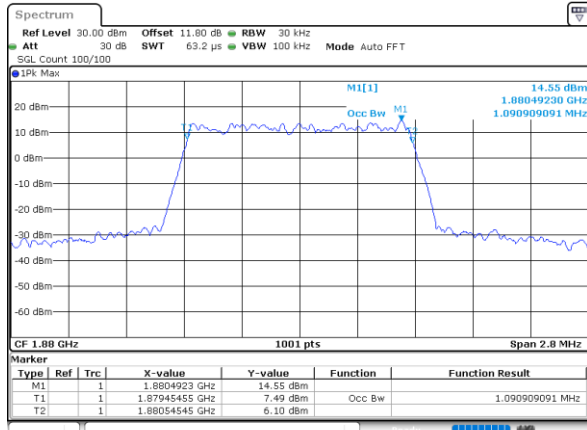


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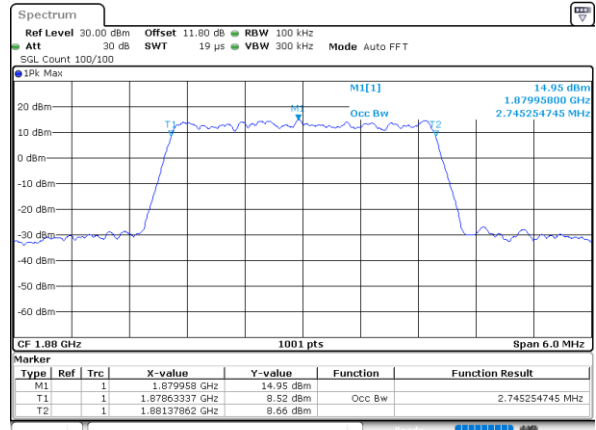


LTE Band 2

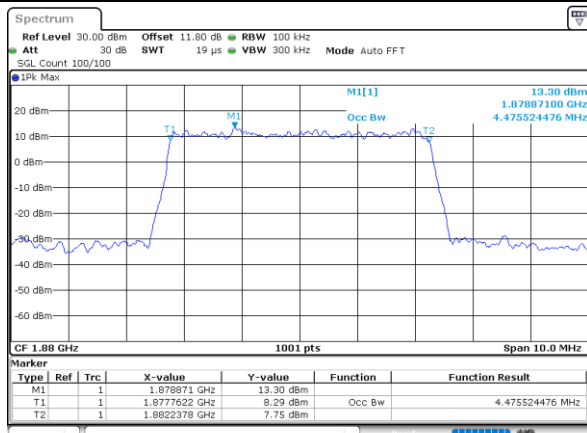
Middle Channel / 1.4MHz / 64QAM



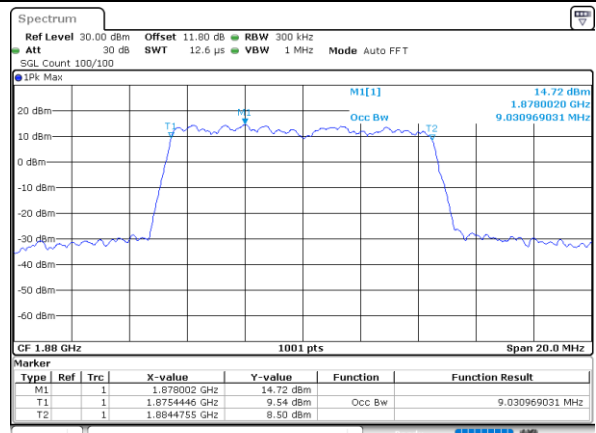
Middle Channel / 3MHz / 64QAM



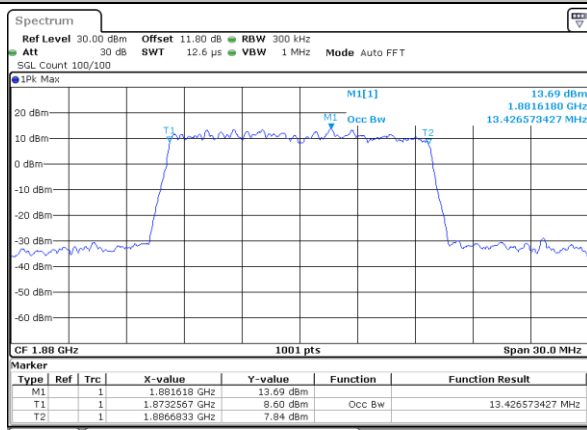
Middle Channel / 5MHz / 64QAM



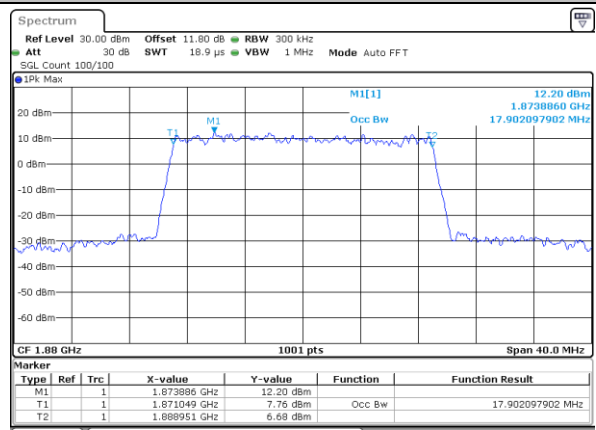
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

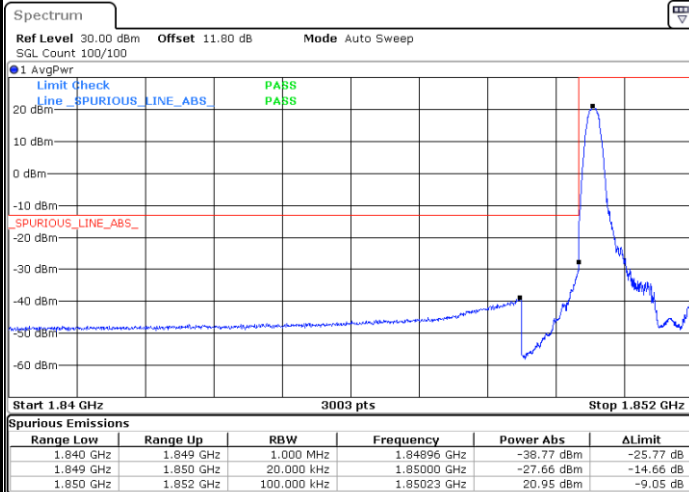




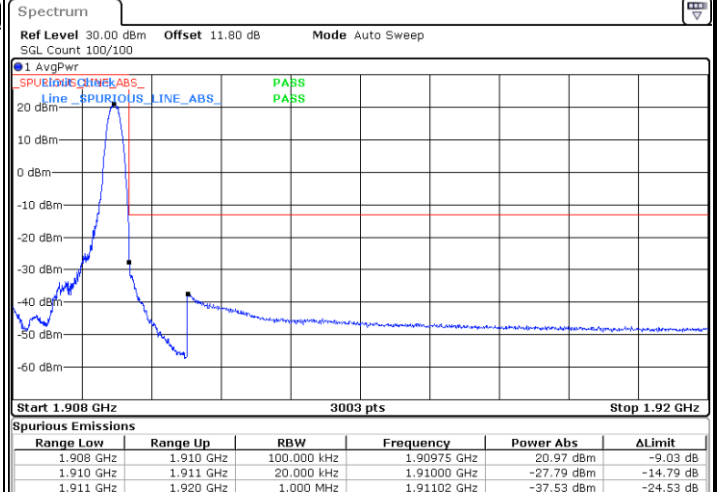
Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

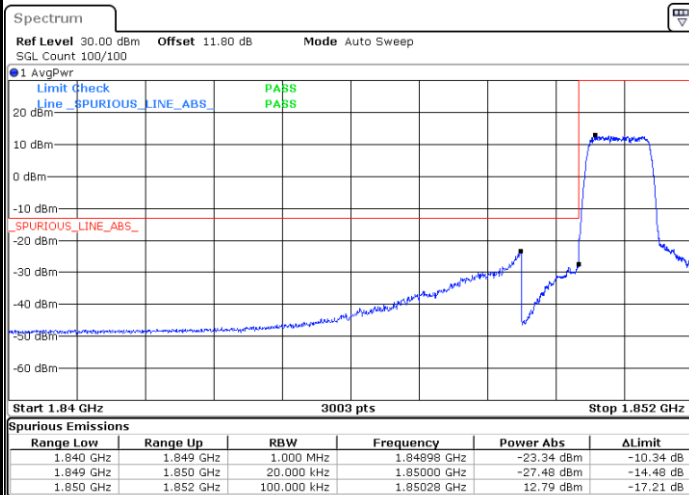
Lowest Band Edge / 1RB



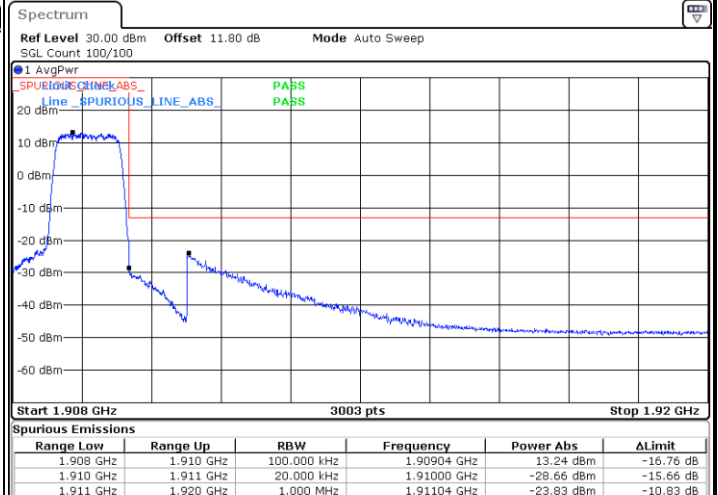
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



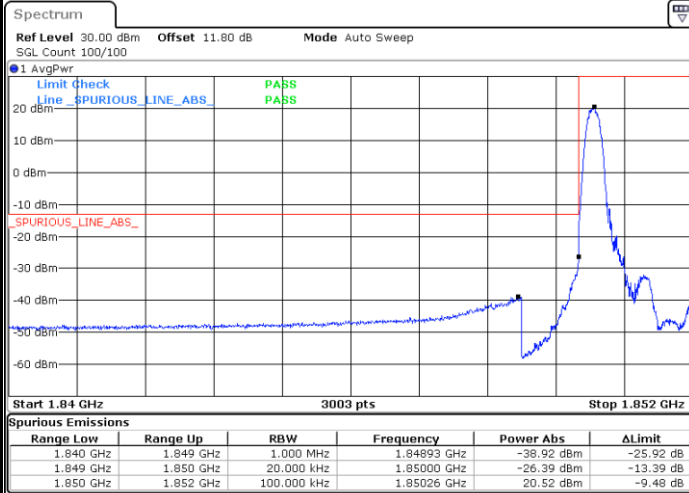
Highest Band Edge / Full RB



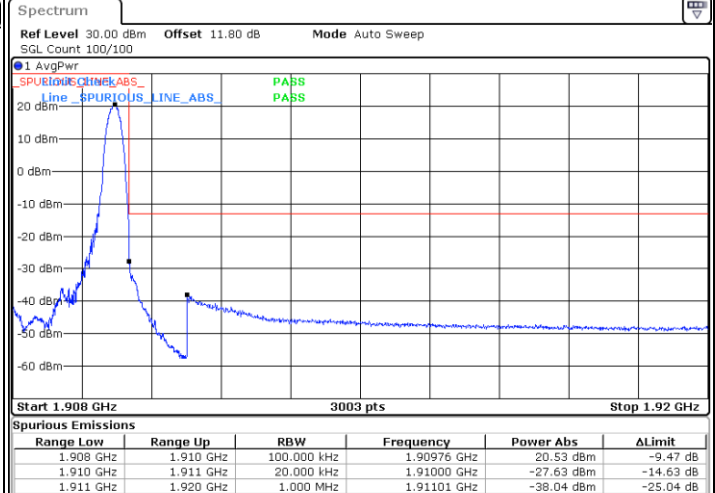


LTE Band 2 / 1.4MHz / 16QAM

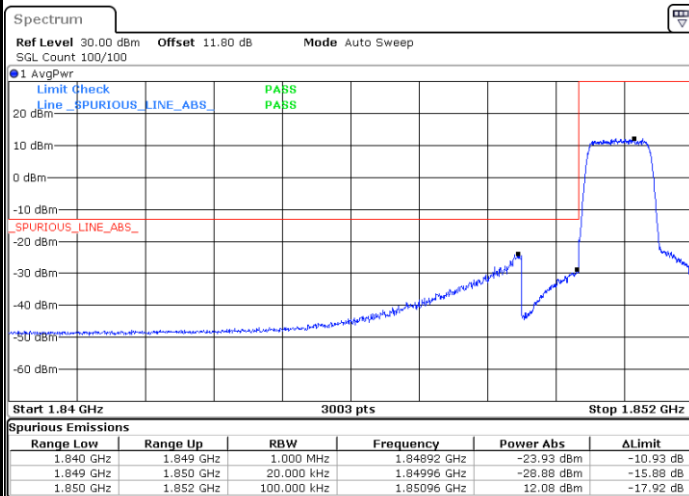
Lowest Band Edge / 1 RB



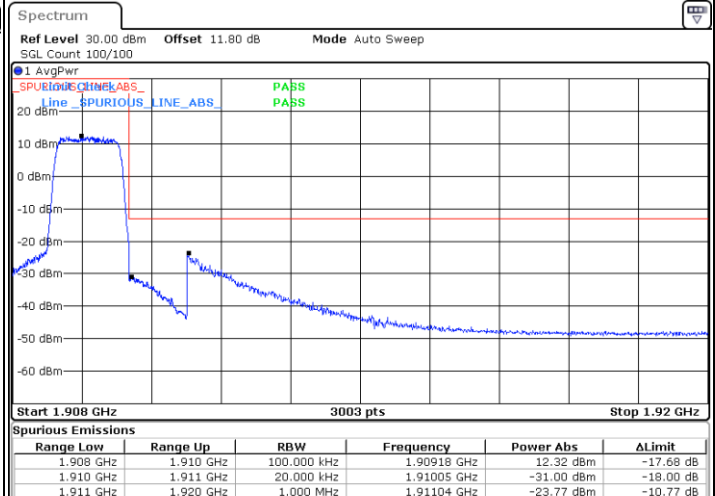
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



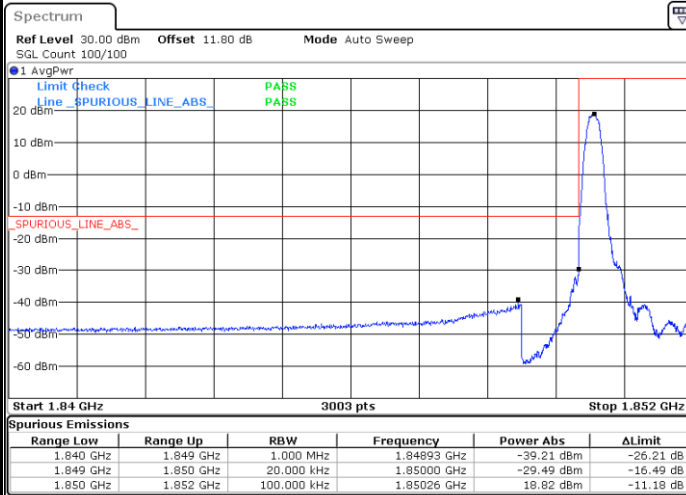
Highest Band Edge / Full RB



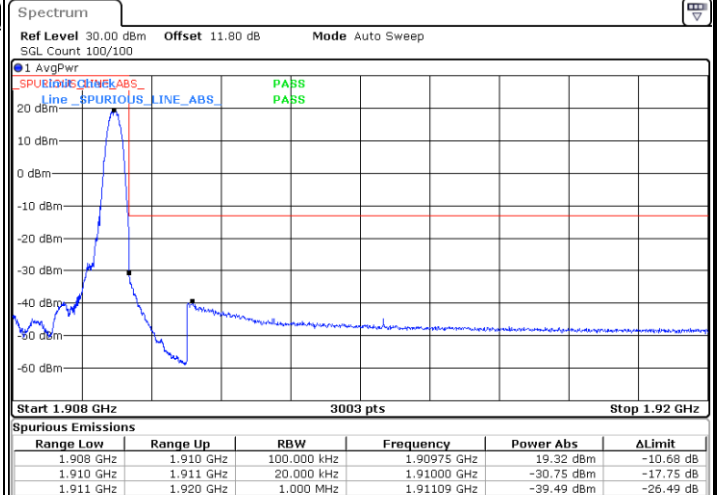


LTE Band 2 / 1.4MHz / 64QAM

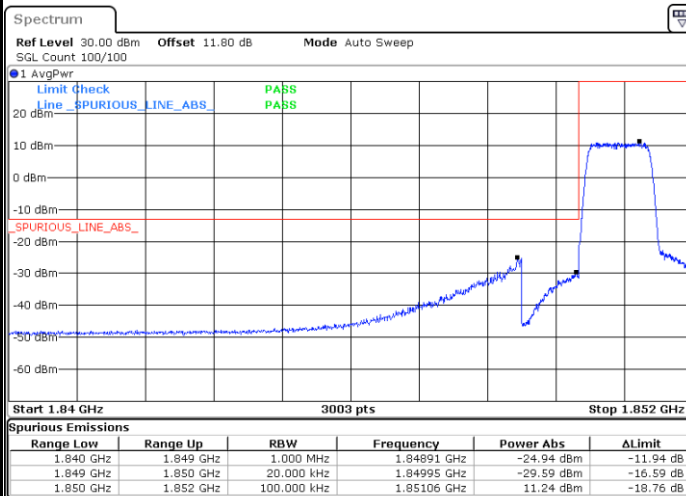
Lowest Band Edge / 1 RB



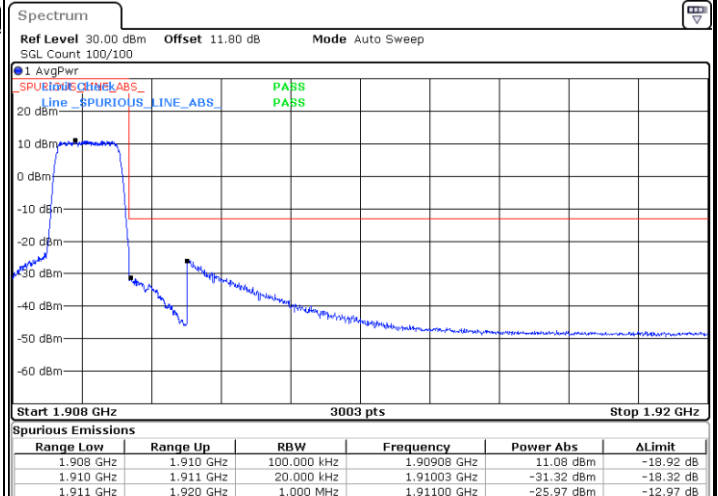
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



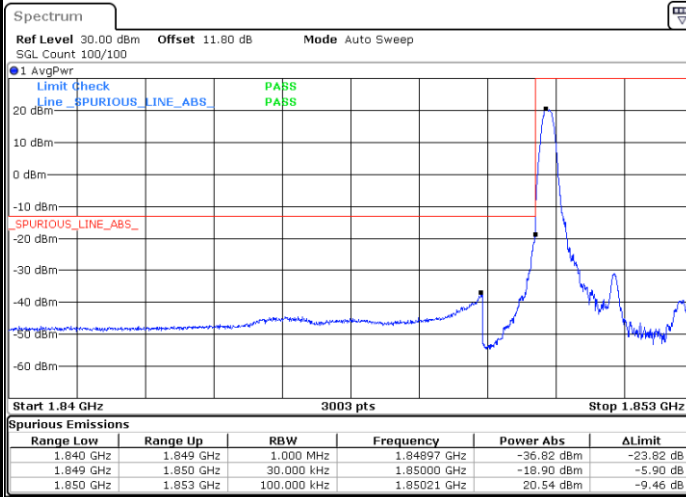
Highest Band Edge / Full RB



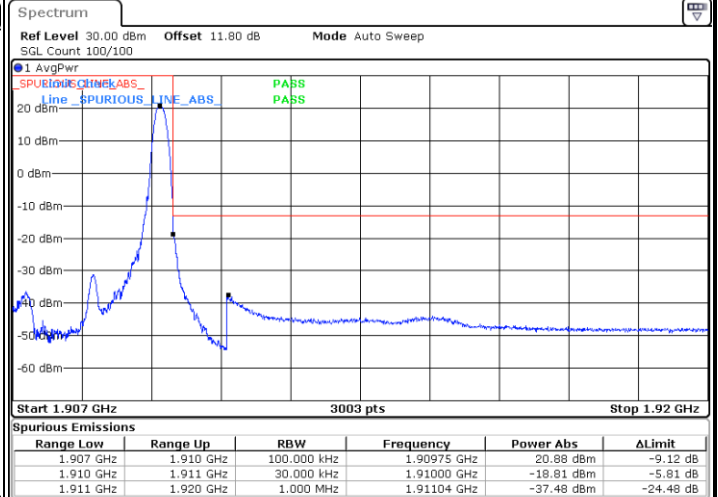


LTE Band 2 / 3MHz / QPSK

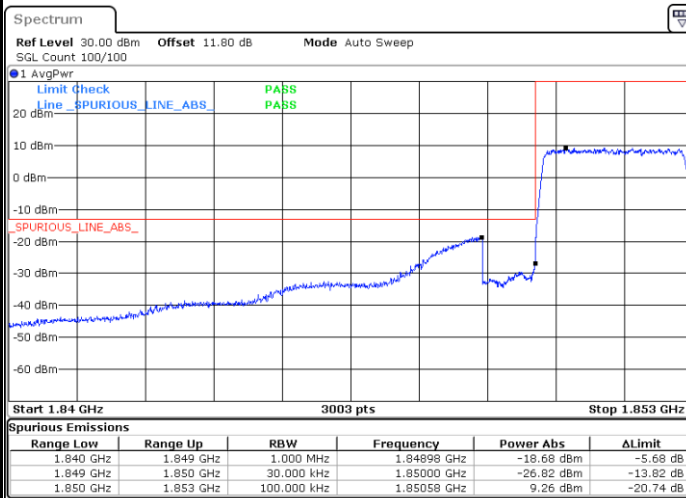
Lowest Band Edge / 1RB



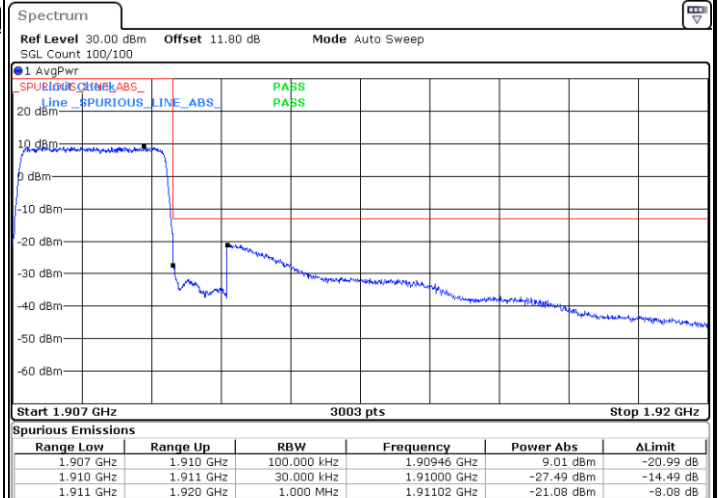
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



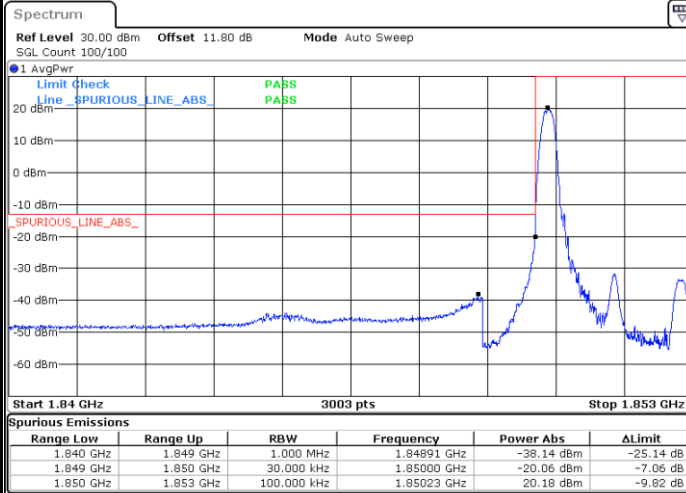
Highest Band Edge / Full RB



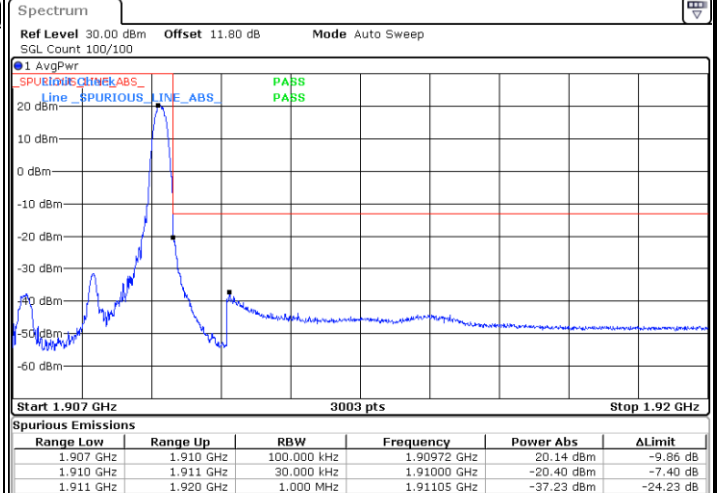


LTE Band 2 / 3MHz / 16QAM

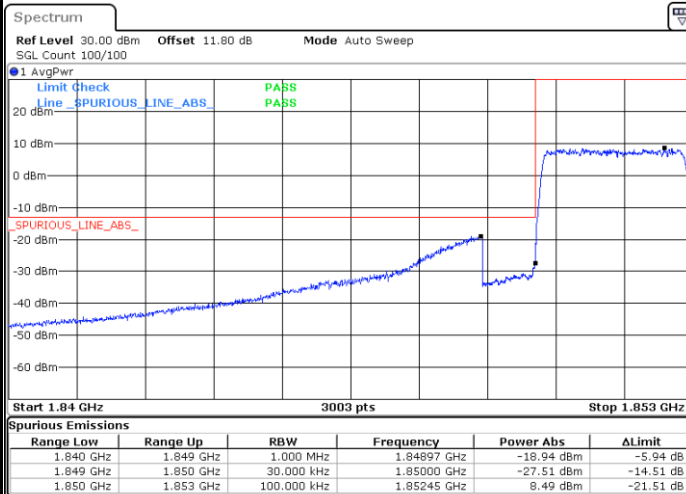
Lowest Band Edge / 1 RB



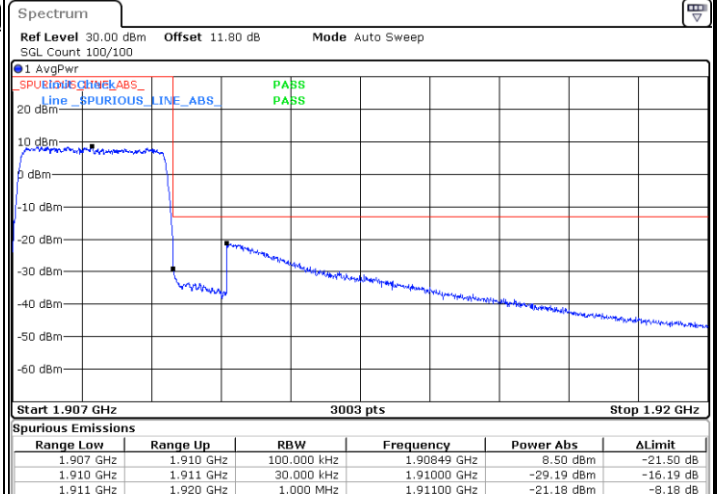
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



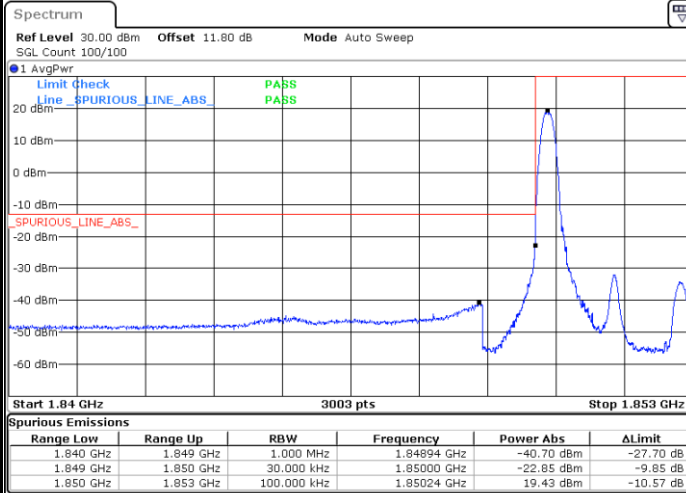
Highest Band Edge / Full RB



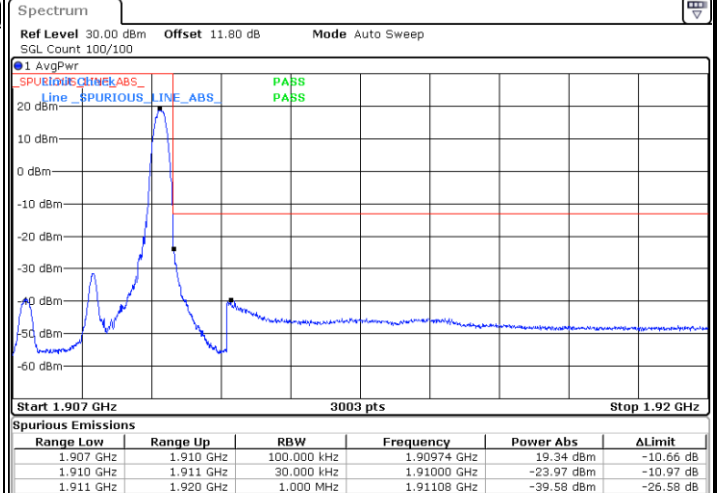


LTE Band 2 / 3MHz / 64QAM

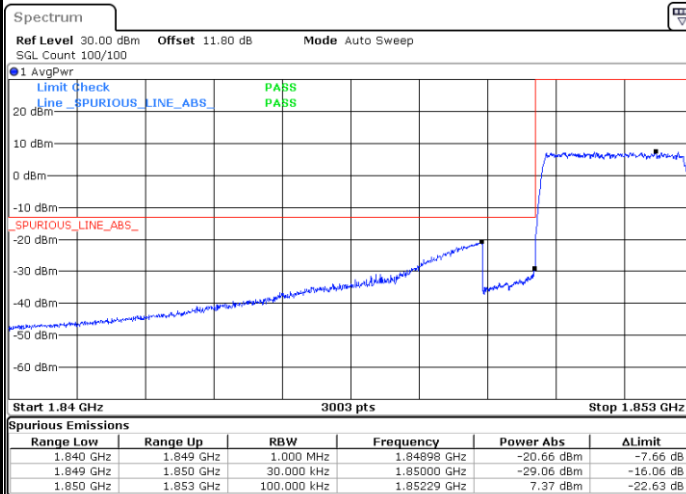
Lowest Band Edge / 1 RB



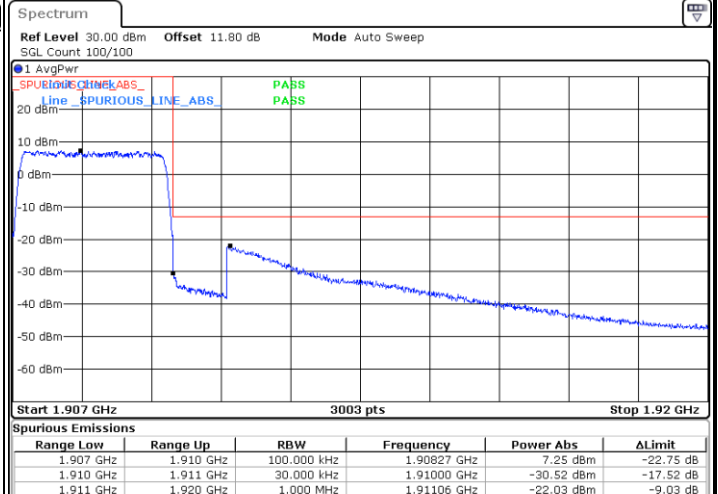
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



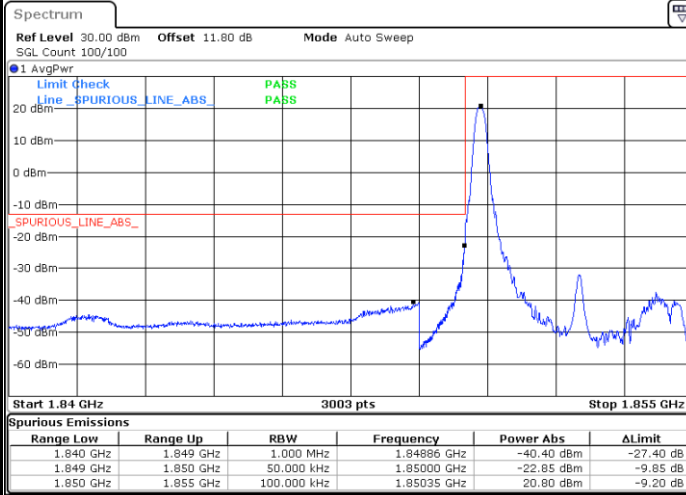
Highest Band Edge / Full RB



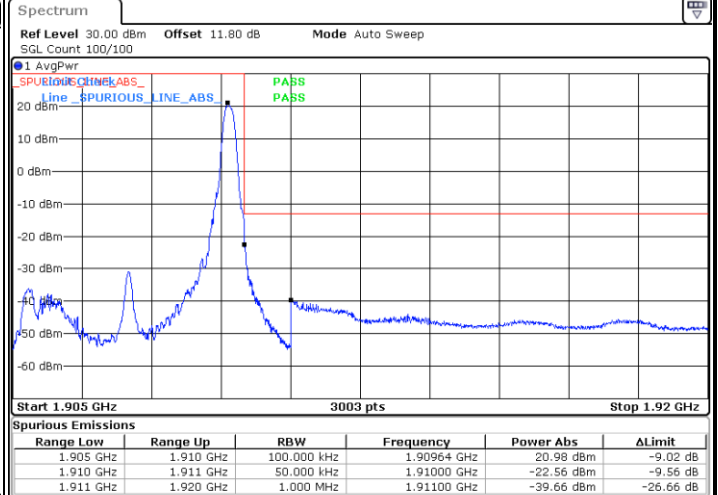


LTE Band 2 / 5MHz / QPSK

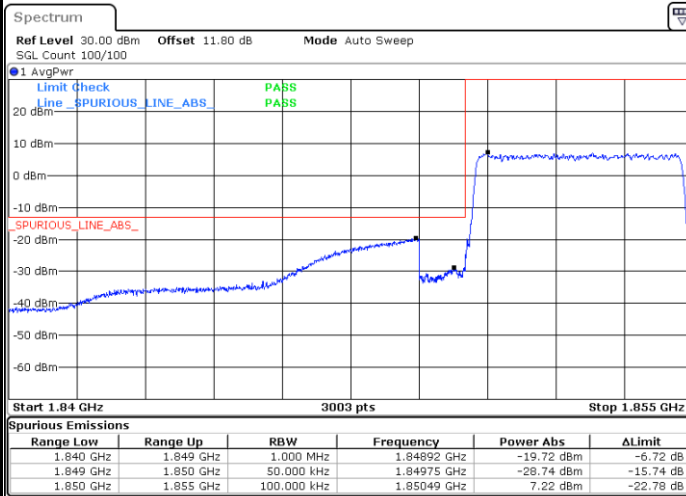
Lowest Band Edge / 1 RB



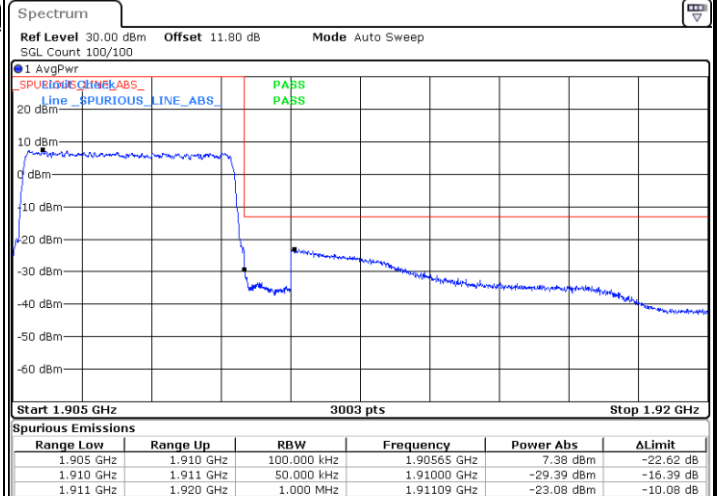
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



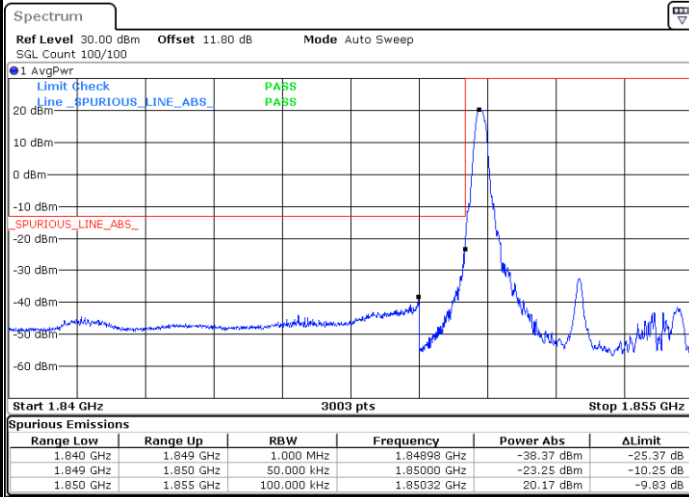
Highest Band Edge / Full RB



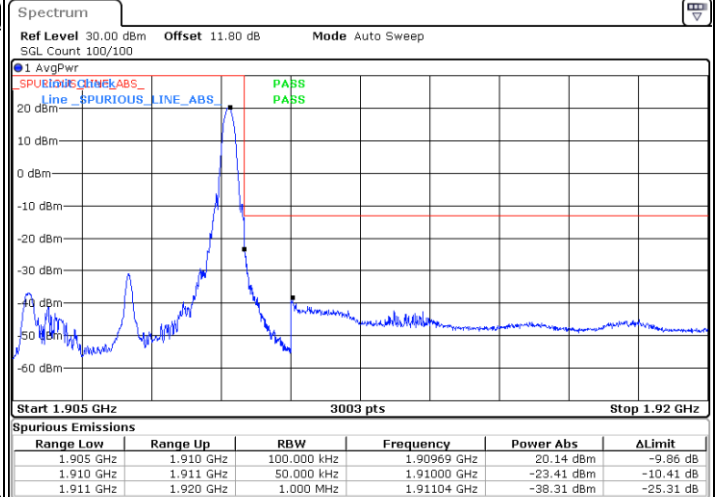


LTE Band 2 / 5MHz / 16QAM

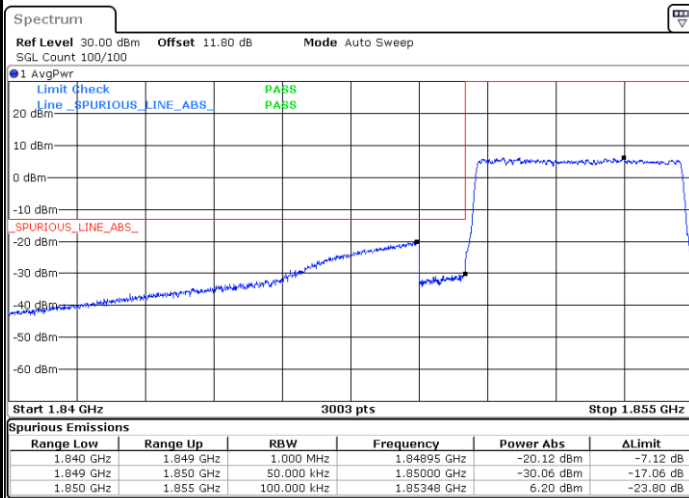
Lowest Band Edge / 1RB



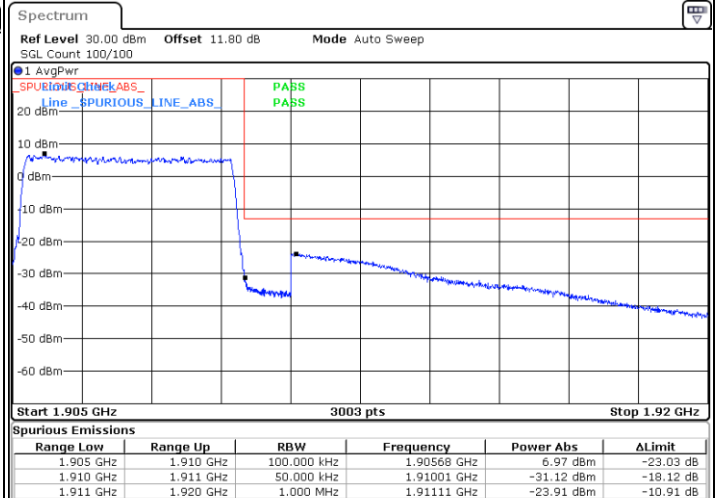
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



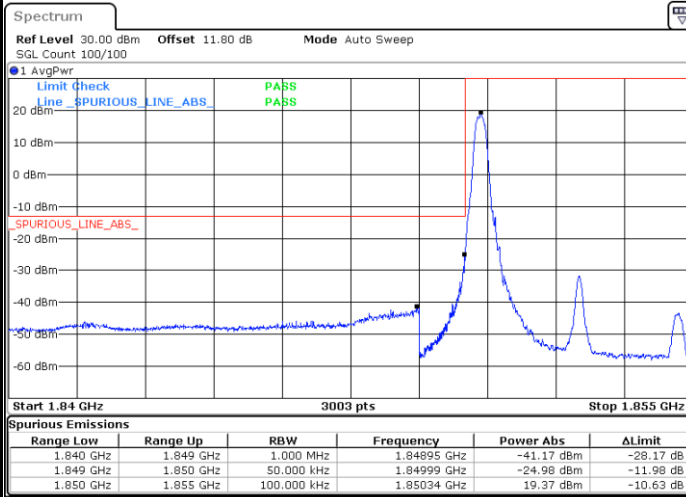
Highest Band Edge / Full RB



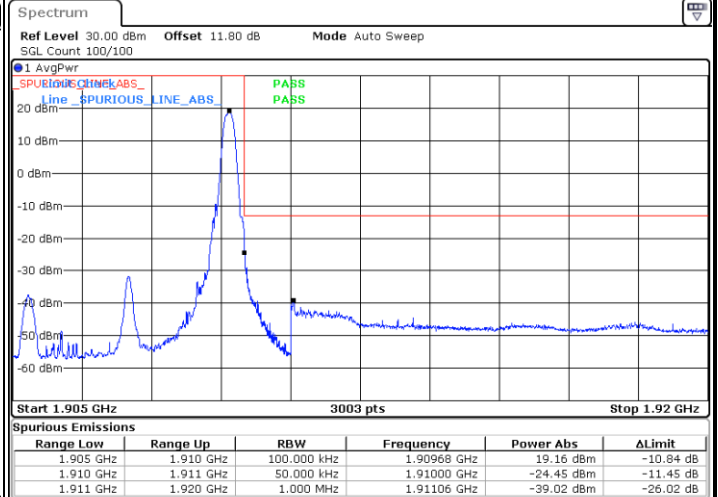


LTE Band 2 / 5MHz / 64QAM

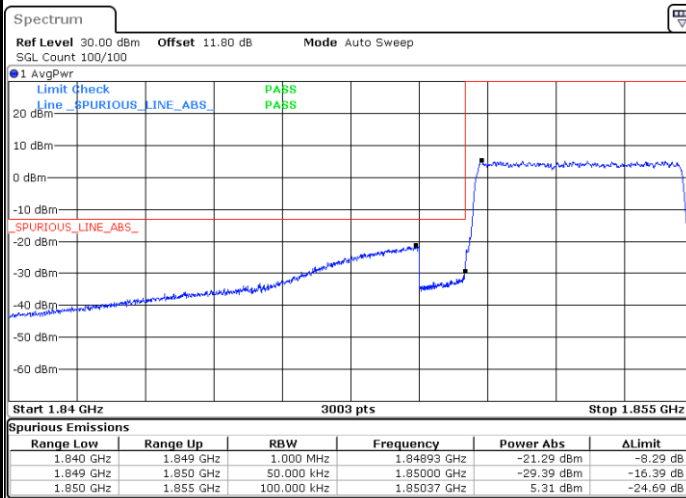
Lowest Band Edge / 1RB



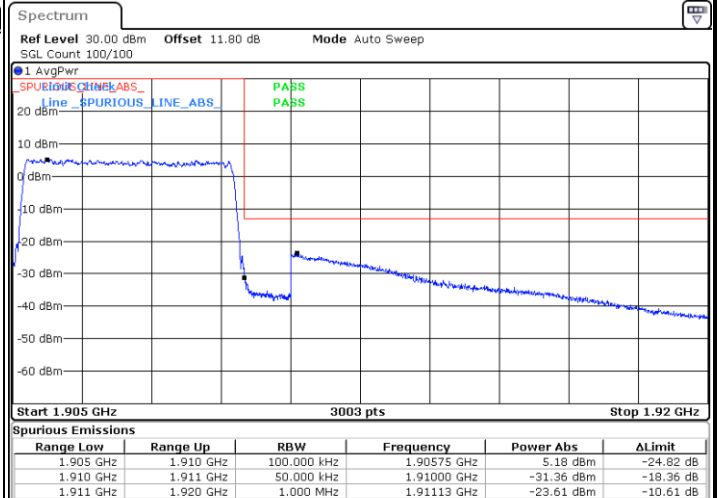
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



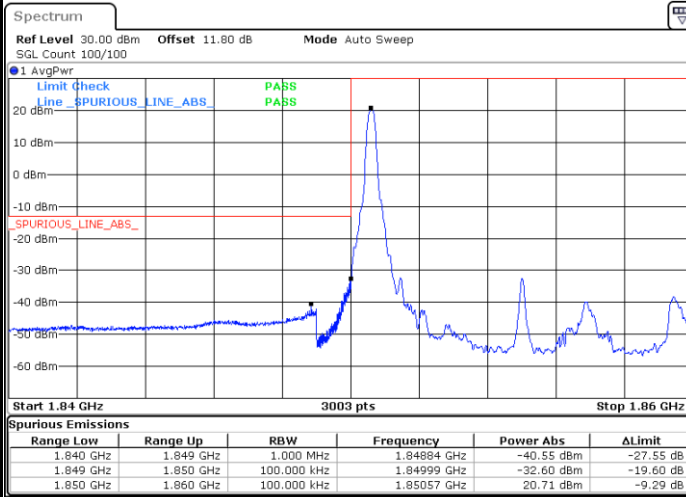
Highest Band Edge / Full RB



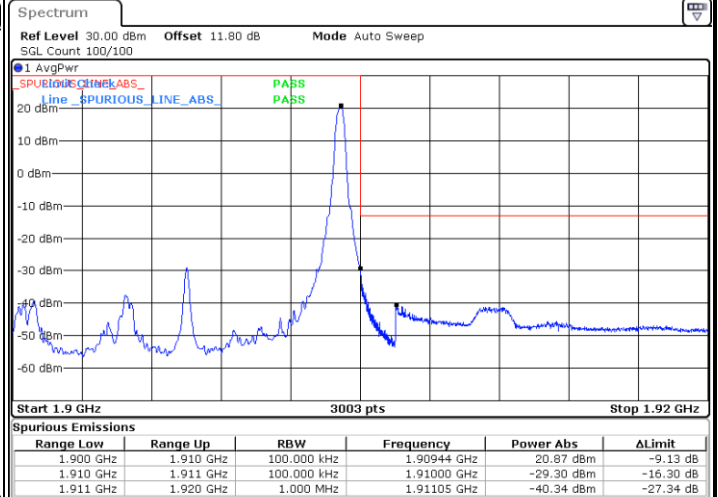


LTE Band 2 / 10MHz / QPSK

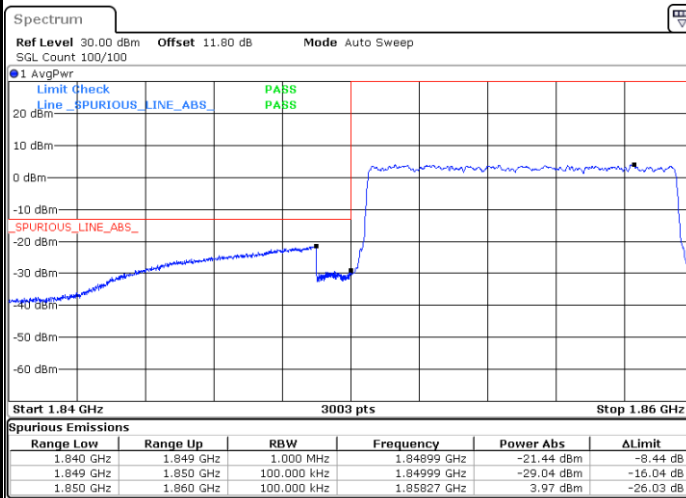
Lowest Band Edge / 1 RB



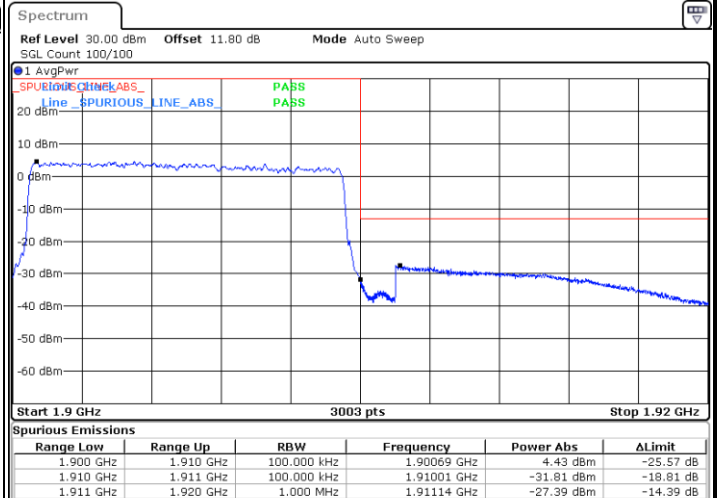
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



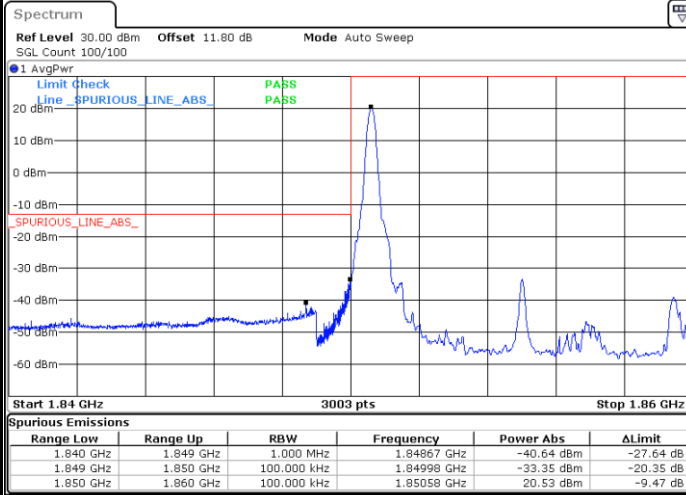
Highest Band Edge / Full RB



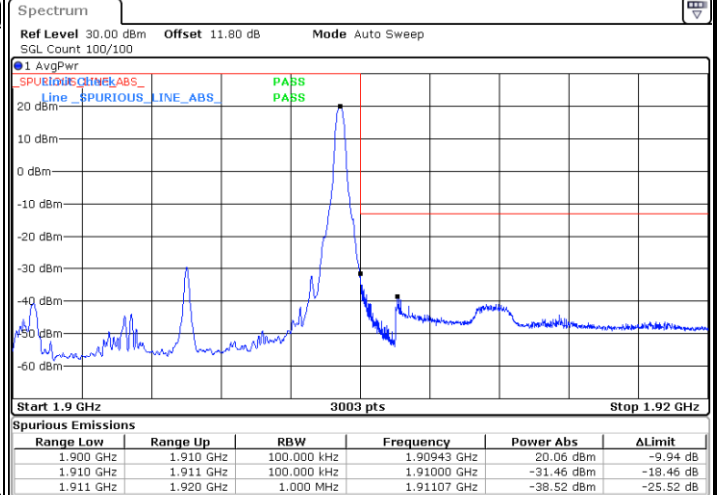


LTE Band 2 / 10MHz / 16QAM

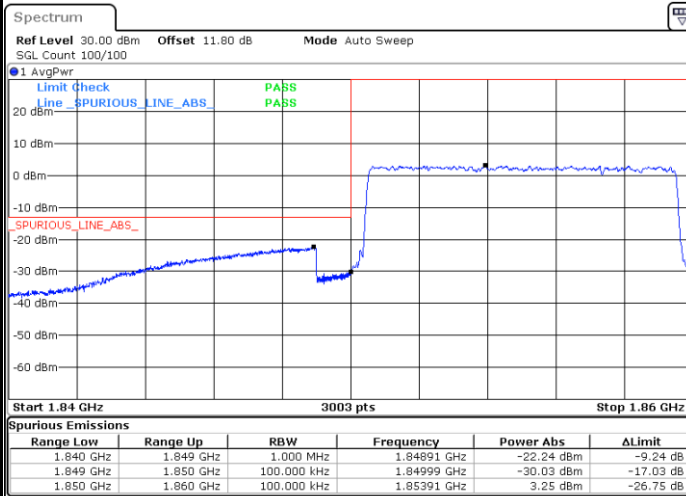
Lowest Band Edge / 1 RB



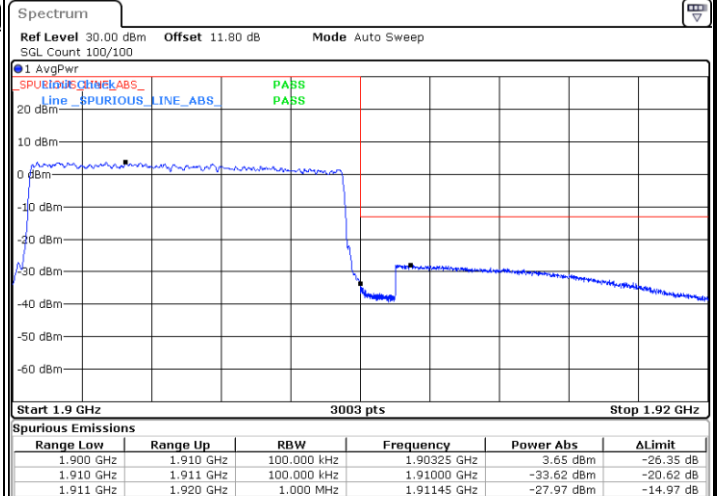
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



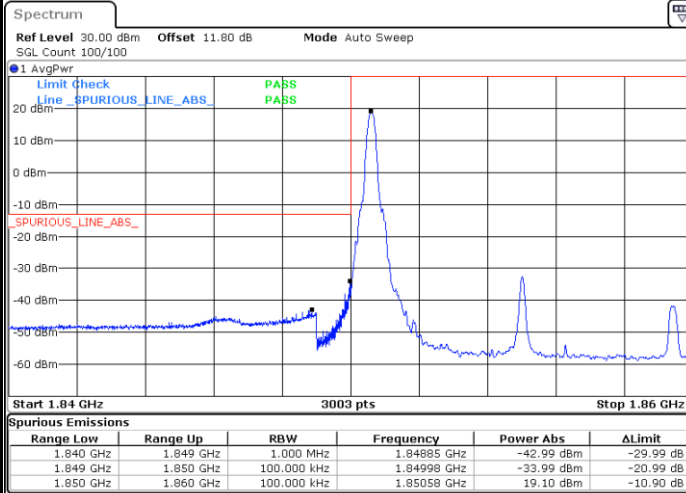
Highest Band Edge / Full RB



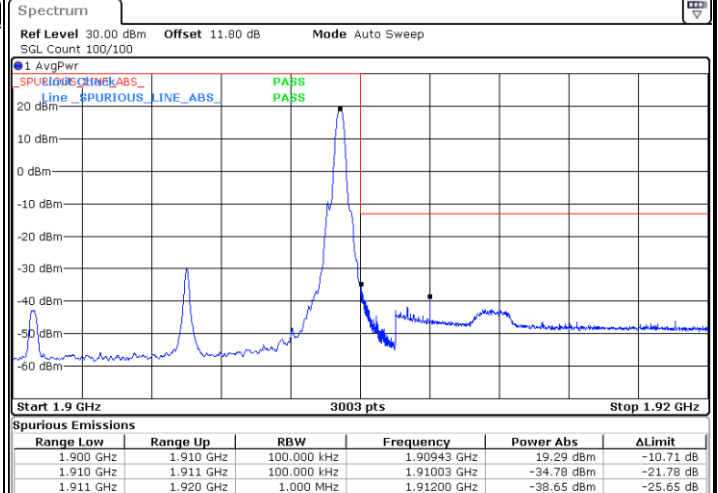


LTE Band 2 / 10MHz / 64QAM

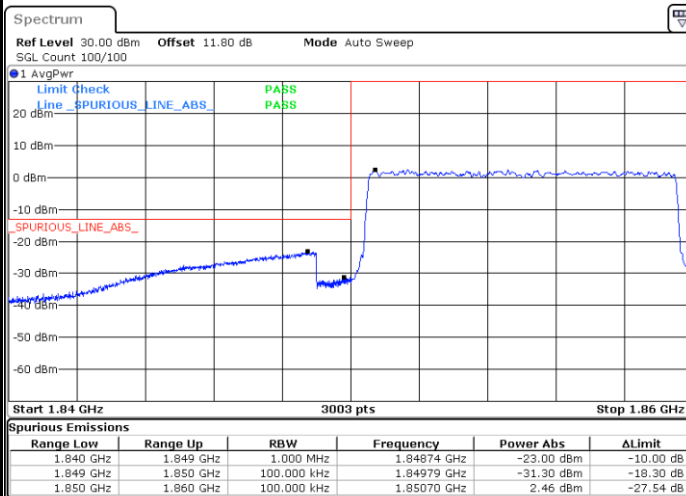
Lowest Band Edge / 1 RB



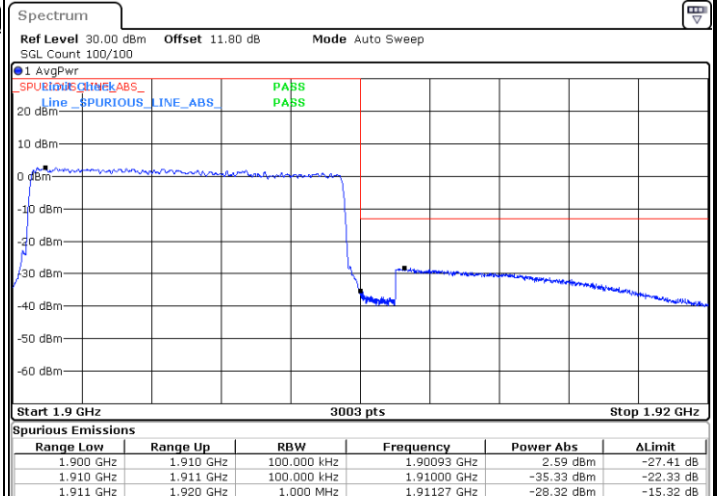
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



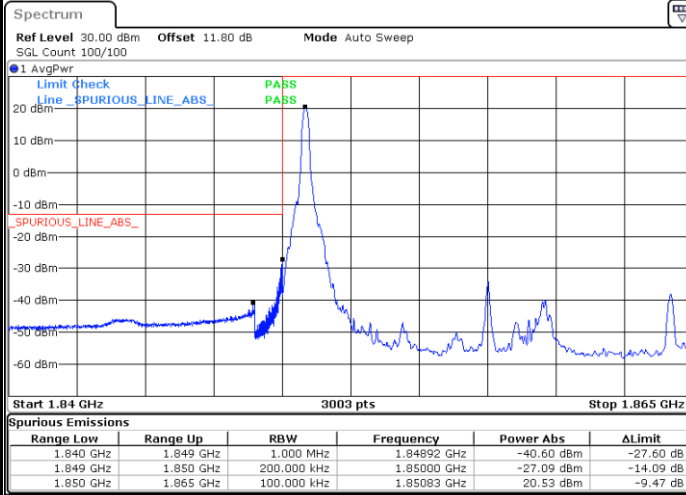
Highest Band Edge / Full RB



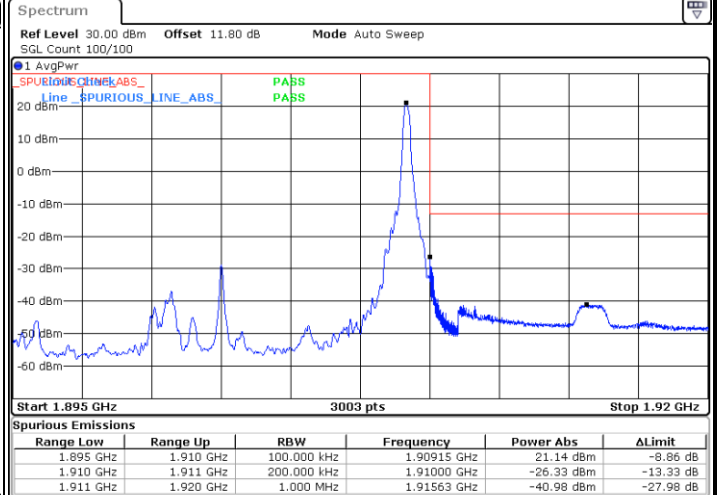


LTE Band 2 / 15MHz / QPSK

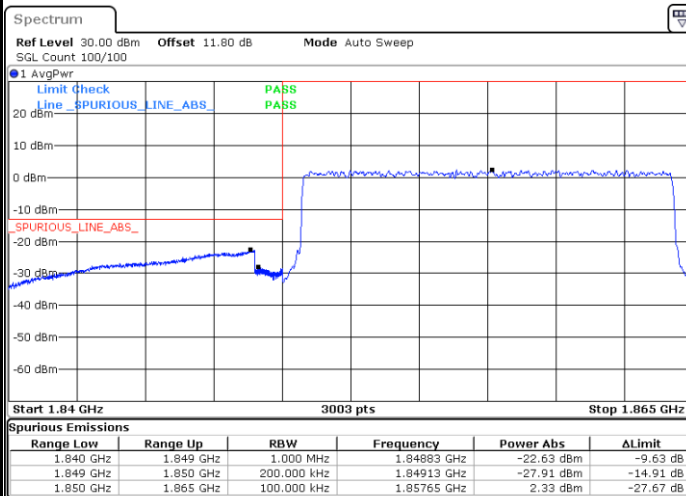
Lowest Band Edge / 1 RB



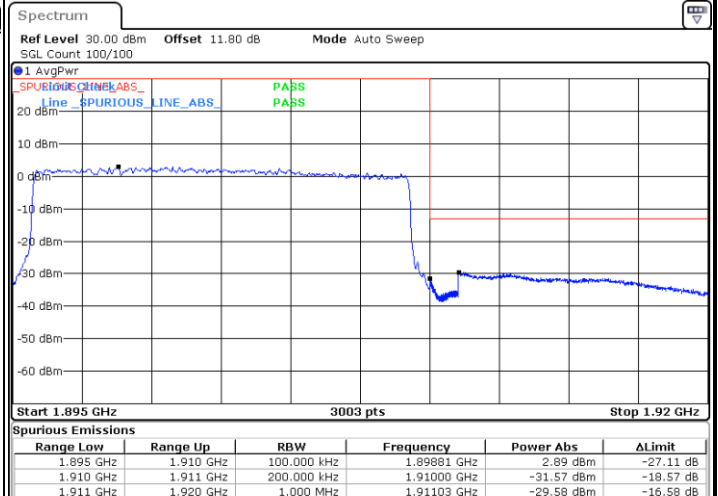
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



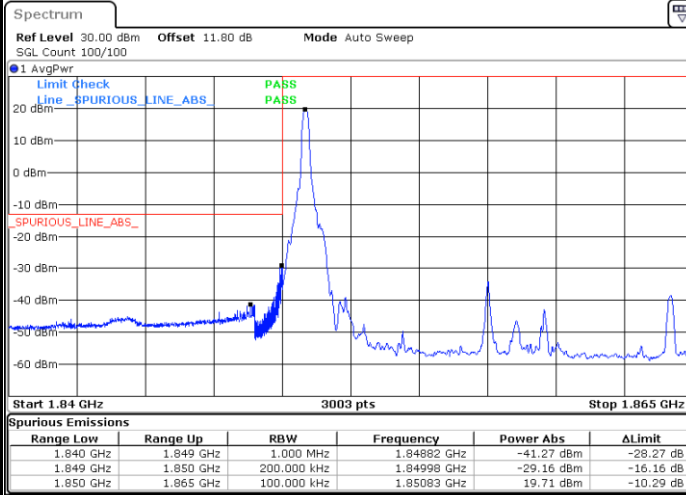
Highest Band Edge / Full RB



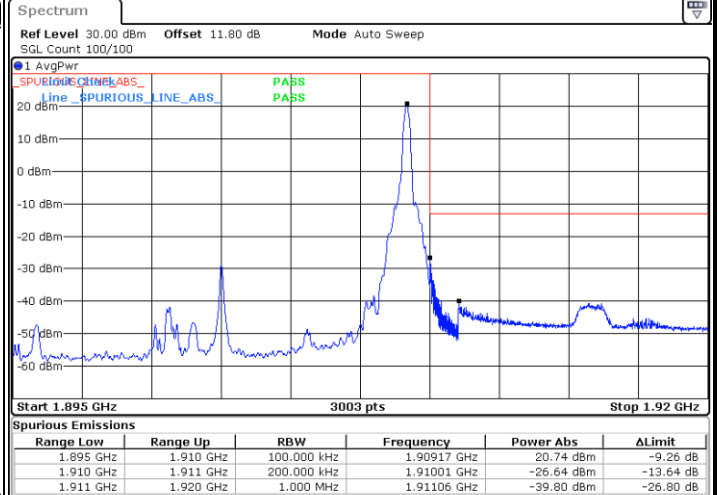


LTE Band 2 / 15MHz / 16QAM

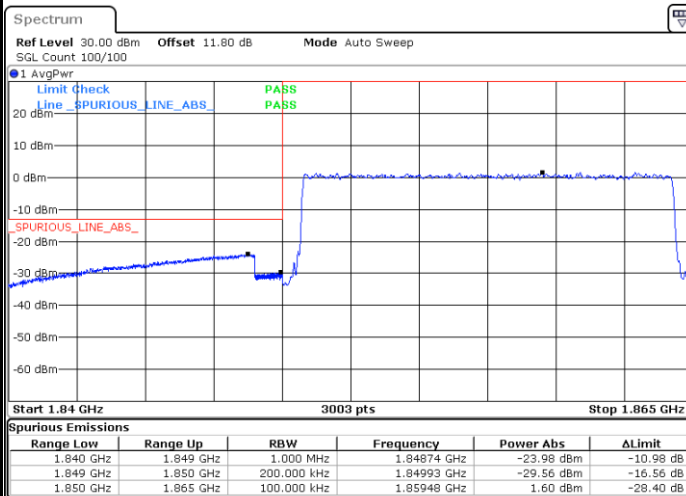
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

