FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2521-2
FCC ID	: IHDT56AT1
STANDARD	: 47 CFR Part 22(H), 24(E), 27(L) , 27(M) , 27(F)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Sep. 13, 2024 ~ Sep. 30, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG482104B	Rev. 01	Initial issue of report	Oct. 19, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10)	Effective Radiated Power (Band 13)	ERP < 3 Watt		-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13)(Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 26) (Band 66)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 23.85 dB at 1559.50 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38)	< 55+10log$_{10}$(P[Watts])		

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654, USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2521-2
FCC ID	IHDT56AT1
IMEI Code	Conducted: 355811120032033/355811120032041 Radiation: 355811120027835/355811120027843 for Sample 1 356072250003331 for Sample 2 355811120041091 for Sample 3
HW Version	DVT2
SW Version	VVTA35.44
EUT Stage	Identical Prototype

Note: There are three samples under test, the difference could be referred to the XT2521-2_product equality declaration which is exhibit separately. According to the difference, sample 1 perform full test, sample 2/3 verified conducted power and found less than sample 1, and sample 2/3 additionally verified the worst case of RSE.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 66 : 2110 MHz~ 2180 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 13 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**<Ant.0>** LTE Band 2 : 23.10 dBm LTE Band 4 : 23.12 dBm LTE Band 5 : 23.19 dBm LTE Band 7 : 23.48 dBm LTE Band 13 : 23.26 dBm LTE Band 26 : 23.25 dBm LTE Band 38 : 23.46 dBm LTE Band 66 : 23.22 dBm **<Ant.3>** LTE Band 2 : 22.62 dBm LTE Band 4 : 22.50 dBm LTE Band 5 : 22.64 dBm LTE Band 7 : 22.60 dBm LTE Band 26 : 22.79 dBm LTE Band 38 : 22.99 dBm LTE Band 66 : 22.64 dBm
Antenna Gain	**<Ant.0>** LTE Band 2 : -2.6 dBi LTE Band 4/66 : -3.0 dBi LTE Band 5 : -4.2 dBi LTE Band 7 : -2.5 dBi LTE Band 13 : -3.6 dBi LTE Band 26 : -4.1 dBi LTE Band 38 : -2.7 dBi **<Ant.3>**

	LTE Band 2 : -2.8 dBi LTE Band 4/66 : -3.4 dBi LTE Band 5/26 : -4.1 dBi LTE Band 7 : -3.2 dBi LTE Band 38 : -2.6 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Antenna 0 for LTE Band 2/4/5/26/66/7/13/38 are shown in the report.

1.5 Modification of EUT

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

1.6 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-201L
AC Adapter 1(EU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-202L
AC Adapter 1(UK)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-203L
AC Adapter 1(IN)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-204
AC Adapter 1(AU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-205L
AC Adapter 1(AR)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-206L
AC Adapter 1(PRC)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-208L
AC Adapter 2(US)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-201L
AC Adapter 2(EU)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-202L
AC Adapter 2(UK)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-203L
AC Adapter 2(AU)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-205L
AC Adapter 2(AR)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-206L
AC Adapter 2(BR)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-207L
AC Adapter 2(PRC)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-208L
AC Adapter 2(CHILE)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-209L
AC Adapter 3(US)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-201L
AC Adapter 3(EU)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-202L
AC Adapter 3(AR)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-206L
AC Adapter 3(BR)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-207L
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	RL52
Battery 2	**Brand Name**	Motorola(Jiade)	**Model Name**	RL52
Battery 3	**Brand Name**	Motorola(COSMX)	**Model Name**	RL52
USB Cable 1	**Brand Name**	Motorola(Yihuaxing)	**Model Name**	T365-020 T365-020-01 T365-020-02
USB Cable 2	**Brand Name**	Motorola(WASHIN)	**Model Name**	HX-TL-01 HX-TL-08 HX-TL-07
USB Cable 3	**Brand Name**	Motorola(Juwei)	**Model Name**	JWUB1614-T03H JWUB1705-T03H JWUB1856-T03H
USB Cable 4	**Brand Name**	Motorola(I-SHENG)	**Model Name**	SC18D38574

1.7 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1074	1M09G7D	0.0883	1M09W7D
3	1851.5 ~ 1908.5	0.1035	2M70G7D	0.0879	2M70W7D
5	1852.5 ~ 1907.5	0.1030	4M47G7D	0.0867	4M47W7D
10	1855.0 ~ 1905.0	0.1026	9M01G7D	0.0861	9M01W7D
15	1857.5 ~ 1902.5	0.1033	13M4G7D	0.0875	13M4W7D
20	1860.0 ~ 1900.0	0.1122	18M0G7D	0.0897	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.0991	1M09G7D	0.0807	1M09W7D
3	1711.5 ~ 1753.5	0.0948	2M71G7D	0.0793	2M69W7D
5	1712.5 ~ 1752.5	0.0946	4M47G7D	0.0793	4M49W7D
10	1715.0 ~ 1750.0	0.0948	9M07G7D	0.0794	9M05W7D
15	1717.5 ~ 1747.5	0.0948	13M4G7D	0.0807	13M4W7D
20	1720.0 ~ 1745.0	0.1028	17M9G7D	0.0836	18M0W7D
LTE Band 5		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0462	1M09G7D	0.0388	1M10W7D
3	825.5 ~ 847.5	0.0459	2M71G7D	0.0386	2M71W7D
5	826.5 ~ 846.5	0.0465	4M49G7D	0.0388	4M48W7D
10	829.0 ~ 844.0	0.0483	9M03G7D	0.0395	9M01W7D
LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1140	4M49G7D	0.0910	4M48W7D
10	2505.0 ~ 2565.0	0.1122	9M11G7D	0.0948	8M97W7D
15	2507.5 ~ 2562.5	0.1140	13M4G7D	0.0946	13M4W7D
20	2510.0 ~ 2560.0	0.1253	17M9G7D	0.0948	17M9W7D

LTE Band 13		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.0540	4M54G7D	0.0451	4M51W7D
10	782.0	0.0564	9M01G7D	0.0455	8M99W7D
LTE Band 26		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0474	1M09G7D	0.0394	1M10W7D
3	825.5 ~ 847.5	0.0462	2M71G7D	0.0394	2M71W7D
5	826.5 ~ 846.5	0.0466	4M49G7D	0.0391	4M48W7D
10	829.0 ~ 844.0	0.0465	9M03G7D	0.0399	9M01W7D
15	831.5 ~ 841.5	0.0501	13M4G7D	0.0400	13M4W7D
CH26790	824.0	0.0493	13M5G7D	0.0398	13M5W7D
LTE Band 38		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1081	4M47G7D	0.0910	4M49W7D
10	2575.0 ~ 2615.0	0.1086	9M03G7D	0.0895	9M01W7D
15	2577.5 ~ 2612.5	0.1057	13M4G7D	0.0906	13M4W7D
20	2580.0 ~ 2610.0	0.1191	17M9G7D	0.0912	17M9W7D
LTE Band 66		**QPSK**		**16QAM/64QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1779.3	0.1030	1M09G7D	0.0822	1M09W7D
3	1711.5 ~ 1778.5	0.0944	2M71G7D	0.0802	2M69W7D
5	1712.5 ~ 1777.5	0.0942	4M47G7D	0.0822	4M49W7D
10	1715.0 ~ 1775.0	0.0953	9M07G7D	0.0807	9M05W7D
15	1717.5 ~ 1772.5	0.0929	13M4G7D	0.0817	13M4W7D
20	1720.0 ~ 1770.0	0.1052	17M9G7D	0.0855	18M0W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power.

1.8 Testing Location

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.10 Applicable Standards

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

- 47 CFR Part 22(H), 24(E), 27(L) , 27(M) , 27(F)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

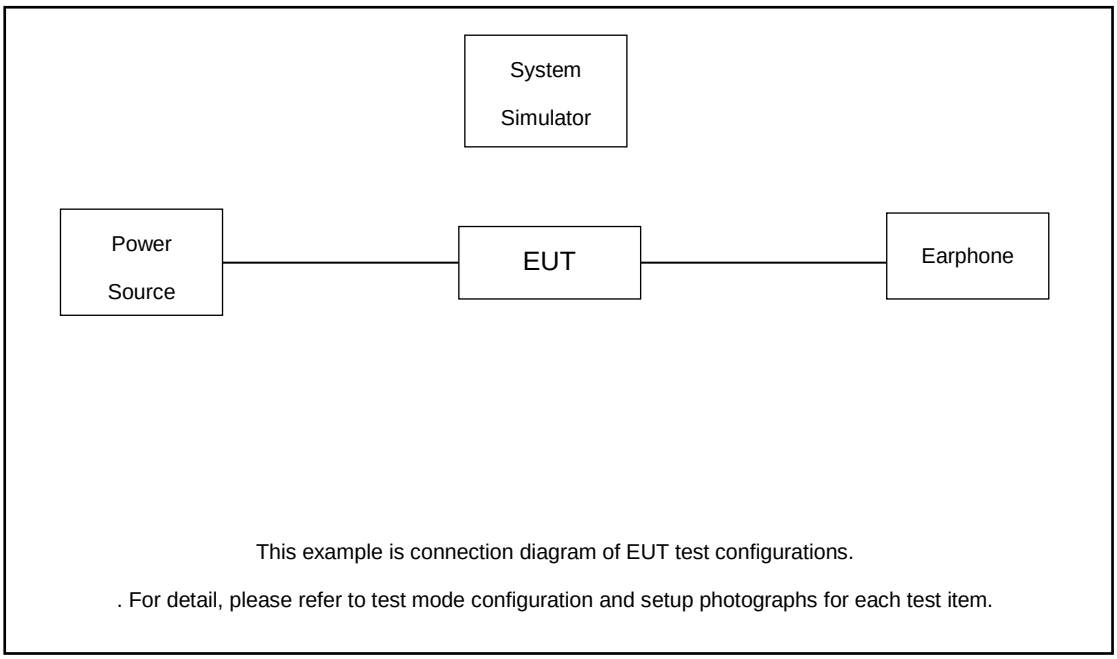
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	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
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	38	-	-	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	
	7	-	-				v	v	v	v			v		v	
	13	-	-		v	-	-	v	v	v			v		v	
	26					v	-	v	v	v			v		v	
	38	-	-				v	v	v	v			v		v	
	66						v	v	v	v			v		v	
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v				v		v	
	7	-	-	v	v	v	v	v	v				v		v	
	13	-	-	v	v	-	-	v	v				v		v	
	26	v	v	v	v	v	-	v	v				v		v	
	38	-	-	v	v	v	v	v	v				v		v	
	66	v	v	v	v	v	v	v	v				v		v	
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	v		v	v		v
	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
	7	-	-	v	v	v	v	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	26	v	v	v	v	v	-	v			v			v	v	v
	38	-	-	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	
	7	-	-		v			v					v		v	
	13	-	-		v	-	-	v					v		v	
	26				v		-	v					v		v	
	38	-	-		v			v					v		v	
	66				v			v					v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	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
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	7	Worst Case													v	
	13	Worst Case													v	
	26	Worst Case													v	
	38	Worst Case													v	
	66	Worst Case													v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 4.5 dB and 10dB attenuator.

Example :

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

= 4.5 + 10 = 14.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

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

LTE Band 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 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 26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

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

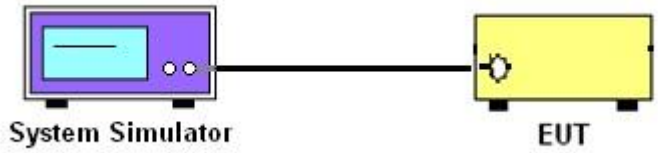
3 Conducted Test Items

3.1 Measuring Instruments

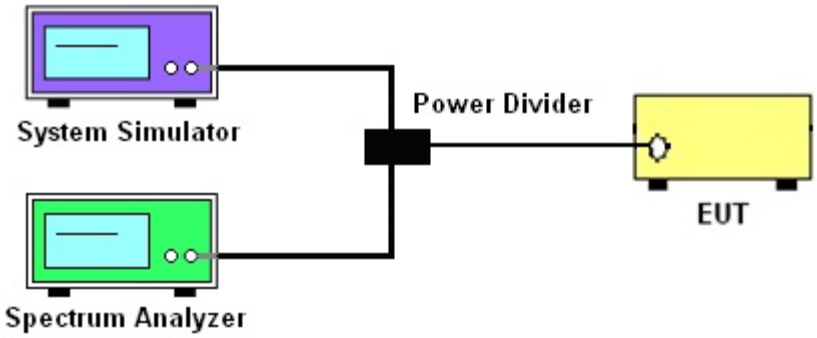
See list of measuring instruments of this test report.

3.2 Test Setup

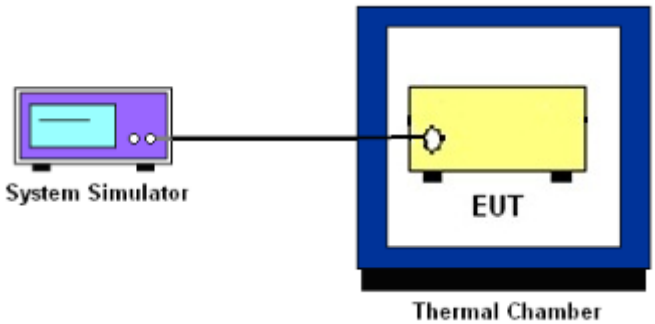
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13.

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

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

27.53 (h)

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

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1%/2% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
8. For LTE Band 7, 38, the other 40 dB, and 55 dB have additionally applied same calculation above.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7, 38:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

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

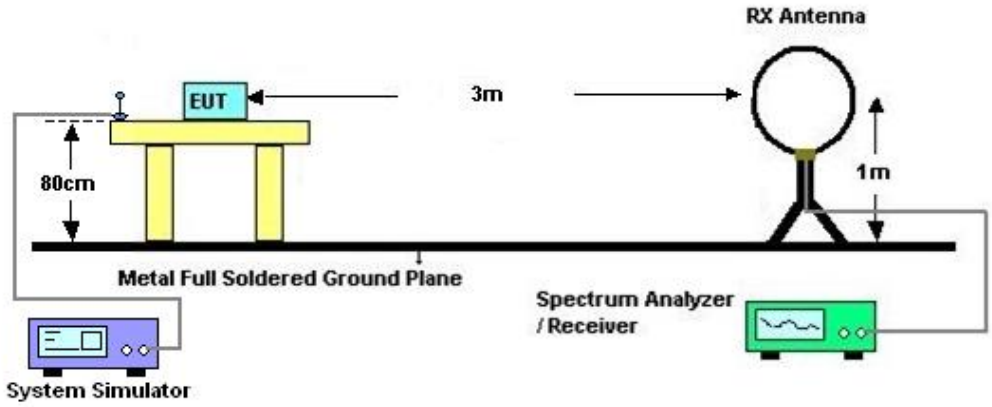
4 Radiated Test Items

4.1 Measuring Instruments

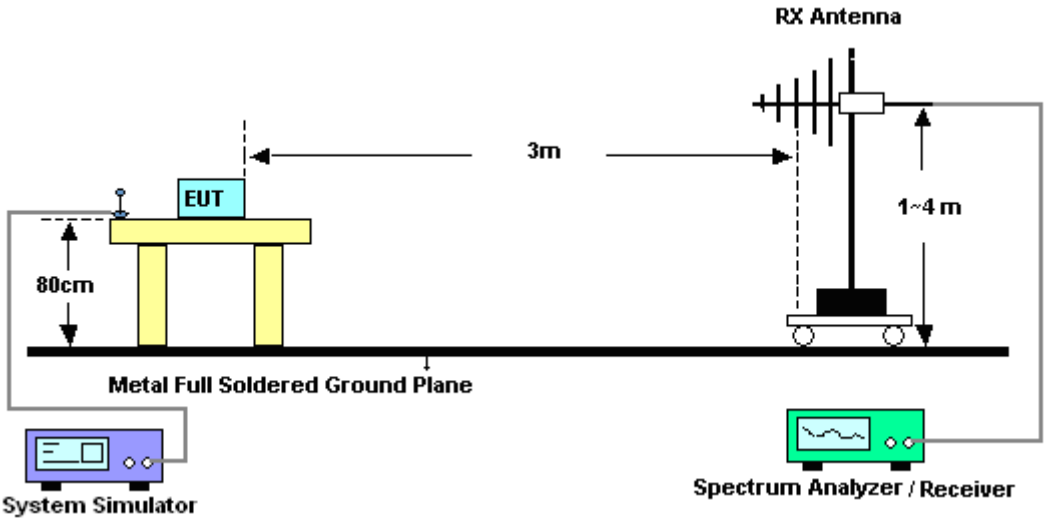
See list of measuring instruments of this test report.

4.2 Test Setup

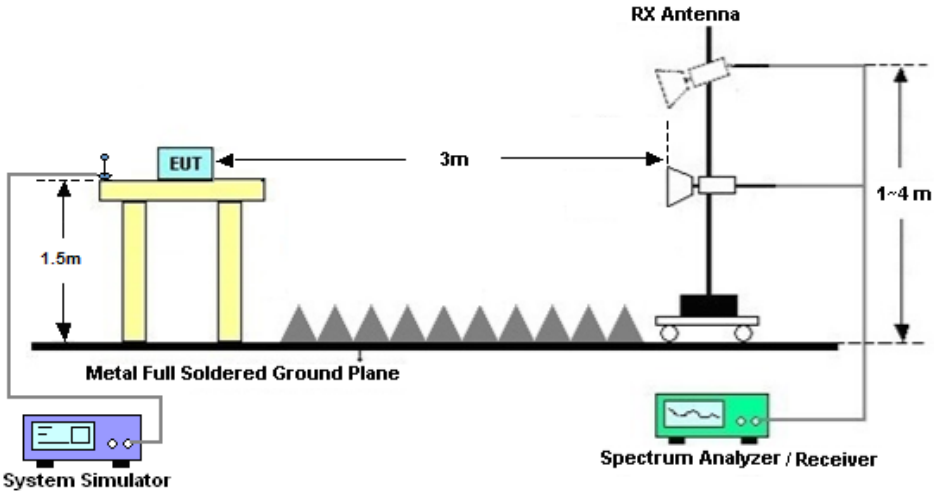
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7, 38

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.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 7, 38:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Sep. 13, 2024~ Sep. 30, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Sep. 13, 2024~ Sep. 30, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Sep. 13, 2024~ Sep. 30, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Sep. 13, 2024~ Sep. 30, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Sep. 25, 2024~ Sep. 26, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 25, 2024~ Sep. 26, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Sep. 25, 2024~ Sep. 26, 2024	Apr. 08, 2025	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Sep. 25, 2024~ Sep. 26, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Sep. 25, 2024~ Sep. 26, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Sep. 25, 2024~ Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 25, 2024~ Sep. 26, 2024	Jul.02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Sep. 25, 2024~ Sep. 26, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Sep. 25, 2024~ Sep. 26, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Sep. 25, 2024~ Sep. 26, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 25, 2024~ Sep. 26, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 25, 2024~ Sep. 26, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8 dB

---------- THE END ----------

Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and ERP/EIRP

LTE_B2_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	22.74	22.74	22.74	0.1033	0.1033	0.1033
20	QPSK	1	49	23.04	23.10	23.06	0.1107	0.1122	0.1112
20	QPSK	1	99	22.61	22.66	22.62	0.1002	0.1014	0.1005
20	QPSK	50	0	21.97	22.09	22.05	0.0865	0.0889	0.0881
20	QPSK	50	24	21.95	22.06	22.02	0.0861	0.0883	0.0875
20	QPSK	50	50	21.85	22.01	22.00	0.0841	0.0873	0.0871
20	QPSK	100	0	21.86	22.06	21.97	0.0843	0.0883	0.0865
20	16QAM	1	0	22.02	22.13	22.01	0.0875	0.0897	0.0873
20	64QAM	1	0	20.96	20.88	20.88	0.0685	0.0673	0.0673
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.63	22.71	22.74	0.1007	0.1026	0.1033
15	16QAM	1	0	21.94	21.90	22.02	0.0859	0.0851	0.0875
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.71	22.65	22.63	0.1026	0.1012	0.1007
10	16QAM	1	0	21.95	21.88	21.88	0.0861	0.0847	0.0847
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.73	22.67	22.69	0.1030	0.1016	0.1021
5	16QAM	1	0	21.98	21.90	21.95	0.0867	0.0851	0.0861
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.75	22.56	22.75	0.1035	0.0991	0.1035
3	16QAM	1	0	21.94	22.04	21.87	0.0859	0.0879	0.0845
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.88	22.86	22.91	0.1067	0.1062	0.1074
1.4	16QAM	1	0	22.06	22.06	22.09	0.0883	0.0883	0.0889

LTE_B4_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	22.79	22.78	22.78	0.0953	0.0951	0.0951
20	QPSK	1	49	23.10	23.12	23.07	0.1023	0.1028	0.1016
20	QPSK	1	99	22.63	22.66	22.61	0.0918	0.0925	0.0914
20	QPSK	50	0	22.09	22.10	22.06	0.0811	0.0813	0.0805
20	QPSK	50	24	22.05	22.09	22.04	0.0804	0.0811	0.0802
20	QPSK	50	50	22.04	22.05	21.97	0.0802	0.0804	0.0789
20	QPSK	100	0	22.03	22.08	22.03	0.0800	0.0809	0.0800
20	16QAM	1	0	22.03	22.22	22.03	0.0800	0.0836	0.0800
20	64QAM	1	0	21.02	20.95	20.93	0.0634	0.0624	0.0621
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	22.77	22.63	22.71	0.0948	0.0918	0.0935
15	16QAM	1	0	21.87	22.07	21.95	0.0771	0.0807	0.0785
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	22.70	22.74	22.77	0.0933	0.0942	0.0948
10	16QAM	1	0	21.99	21.90	22.00	0.0793	0.0776	0.0794
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	22.65	22.76	22.73	0.0923	0.0946	0.0940
5	16QAM	1	0	21.94	21.99	21.87	0.0783	0.0793	0.0771
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	22.66	22.63	22.77	0.0925	0.0918	0.0948
3	16QAM	1	0	21.91	21.99	21.97	0.0778	0.0793	0.0789
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	22.85	22.88	22.96	0.0966	0.0973	0.0991
1.4	16QAM	1	0	22.12	22.07	22.07	0.0817	0.0807	0.0807

LTE_B5_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.06	23.07	23.03	0.0469	0.0470	0.0466
10	QPSK	1	25	23.15	23.19	23.14	0.0479	0.0483	0.0478
10	QPSK	1	49	23.07	23.03	23.02	0.0470	0.0466	0.0465
10	QPSK	25	0	22.18	22.23	22.18	0.0383	0.0387	0.0383
10	QPSK	25	12	22.16	22.15	22.16	0.0381	0.0380	0.0381
10	QPSK	25	25	22.13	22.15	22.01	0.0378	0.0380	0.0368
10	QPSK	50	0	22.16	22.19	22.07	0.0381	0.0384	0.0373
10	16QAM	1	0	22.25	22.32	22.25	0.0389	0.0395	0.0389
10	64QAM	1	0	21.19	21.16	21.20	0.0305	0.0303	0.0305
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.93	23.02	22.95	0.0455	0.0465	0.0457
5	16QAM	1	0	22.24	22.16	22.22	0.0388	0.0381	0.0386
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	22.90	22.94	22.97	0.0452	0.0456	0.0459
3	16QAM	1	0	22.22	22.17	22.21	0.0386	0.0382	0.0385
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	23.00	23.00	22.97	0.0462	0.0462	0.0459
1.4	16QAM	1	0	22.15	22.19	22.24	0.0380	0.0384	0.0388

LTE_B7_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	23.07	23.07	23.03	0.1140	0.1140	0.1130
20	QPSK	1	49	23.40	23.48	23.40	0.1230	0.1253	0.1230
20	QPSK	1	99	23.03	23.11	23.11	0.1130	0.1151	0.1151
20	QPSK	50	0	22.41	22.50	22.47	0.0979	0.1000	0.0993
20	QPSK	50	24	22.40	22.47	22.39	0.0977	0.0993	0.0975
20	QPSK	50	50	22.37	22.45	22.46	0.0971	0.0989	0.0991
20	QPSK	100	0	22.35	22.46	22.40	0.0966	0.0991	0.0977
20	16QAM	1	0	22.27	22.24	22.22	0.0948	0.0942	0.0938
20	64QAM	1	0	21.32	21.22	21.28	0.0762	0.0745	0.0755
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	23.06	23.07	22.89	0.1138	0.1140	0.1094
15	16QAM	1	0	22.26	22.24	22.11	0.0946	0.0942	0.0914
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.00	22.97	22.89	0.1122	0.1114	0.1094
10	16QAM	1	0	22.27	22.25	22.04	0.0948	0.0944	0.0899
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	23.07	22.95	22.99	0.1140	0.1109	0.1119
5	16QAM	1	0	22.08	22.09	22.08	0.0908	0.0910	0.0908

LTE_B13_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel					23230				
Frequency (MHz)					782			M	
10	QPSK	1	0		23.13			0.0547	
10	QPSK	1	25		23.26			0.0564	
10	QPSK	1	49		23.15			0.0550	
10	QPSK	25	0		22.26			0.0448	
10	QPSK	25	12		22.16			0.0438	
10	QPSK	25	25		22.13			0.0435	
10	QPSK	50	0		22.19			0.0441	
10	16QAM	1	0		22.33			0.0455	
10	64QAM	1	0		21.40			0.0367	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	23.00	23.00	23.07	0.0531	0.0531	0.0540
5	16QAM	1	0	22.29	22.22	22.22	0.0451	0.0444	0.0444

LTE_B26_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	22.98	22.99	22.91	22.94	0.0471	0.0472	0.0463	0.0467
15	QPSK	1	37	23.18	23.20	23.25	23.14	0.0493	0.0495	0.0501	0.0489
15	QPSK	1	74	22.98	22.99	22.94	22.94	0.0471	0.0472	0.0467	0.0467
15	QPSK	36	0	22.11	22.12	22.15	22.13	0.0385	0.0386	0.0389	0.0387
15	QPSK	36	20	22.08	22.09	22.08	22.12	0.0383	0.0384	0.0383	0.0386
15	QPSK	36	39	22.08	22.10	22.11	22.06	0.0383	0.0385	0.0385	0.0381
15	QPSK	75	0	22.09	22.10	22.11	22.08	0.0384	0.0385	0.0385	0.0383
15	16QAM	1	0	22.25	22.27	22.15	22.23	0.0398	0.0400	0.0389	0.0396
15	64QAM	1	0	21.16	21.17	21.08	21.15	0.0310	0.0310	0.0304	0.0309
Channel					26840	26915	26990	ERP(W)			
Frequency (MHz)					829	836.5	844		L	M	H
10	QPSK	1	0		22.92	22.92	22.90		0.0465	0.0465	0.0462
10	16QAM	1	0		22.26	21.96	22.23		0.0399	0.0372	0.0396
Channel					26815	26915	27015	ERP(W)			
Frequency (MHz)					826.5	836.5	846.5		L	M	H
5	QPSK	1	0		22.93	22.82	22.75		0.0466	0.0454	0.0447
5	16QAM	1	0		22.17	22.11	22.14		0.0391	0.0385	0.0388
Channel					26815	26915	27025	ERP(W)			
Frequency (MHz)					825.5	836.5	847.5		L	M	H
3	QPSK	1	0		22.82	22.81	22.90		0.0454	0.0453	0.0462
3	16QAM	1	0		22.14	22.02	22.21		0.0388	0.0378	0.0394
Channel					26797	26915	27033	ERP(W)			
Frequency (MHz)					824.7	836.5	848.3		L	M	H
1.4	QPSK	1	0		23.01	23.00	22.98		0.0474	0.0473	0.0471
1.4	16QAM	1	0		22.17	22.21	22.13		0.0391	0.0394	0.0387

LTE_B38_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	23.05	23.04	23.02	0.1084	0.1081	0.1076
20	QPSK	1	49	23.44	23.46	23.41	0.1186	0.1191	0.1178
20	QPSK	1	99	23.12	23.14	23.14	0.1102	0.1107	0.1107
20	QPSK	50	0	22.50	22.53	22.51	0.0955	0.0962	0.0957
20	QPSK	50	24	22.48	22.49	22.41	0.0951	0.0953	0.0935
20	QPSK	50	50	22.48	22.47	22.49	0.0951	0.0948	0.0953
20	QPSK	100	0	22.49	22.51	22.48	0.0953	0.0957	0.0951
20	16QAM	1	0	22.29	22.30	22.28	0.0910	0.0912	0.0908
20	64QAM	1	0	21.22	21.21	21.19	0.0711	0.0710	0.0706
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.94	22.92	22.94	0.1057	0.1052	0.1057
15	16QAM	1	0	22.17	22.15	22.27	0.0885	0.0881	0.0906
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	23.06	22.95	22.94	0.1086	0.1059	0.1057
10	16QAM	1	0	22.11	22.22	22.11	0.0873	0.0895	0.0873
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.86	23.04	23.03	0.1038	0.1081	0.1079
5	16QAM	1	0	22.25	22.29	22.28	0.0902	0.0910	0.0908

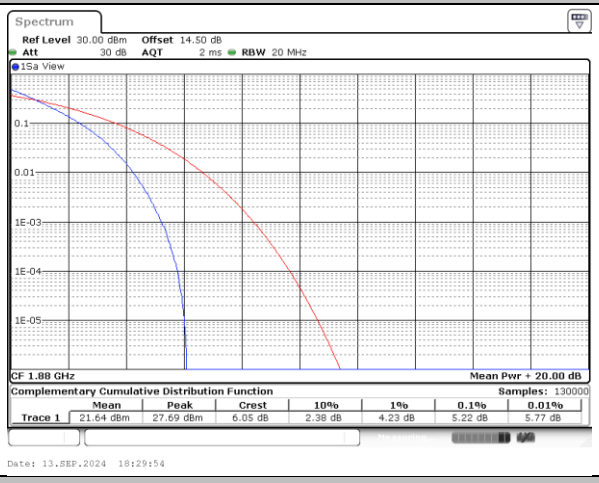
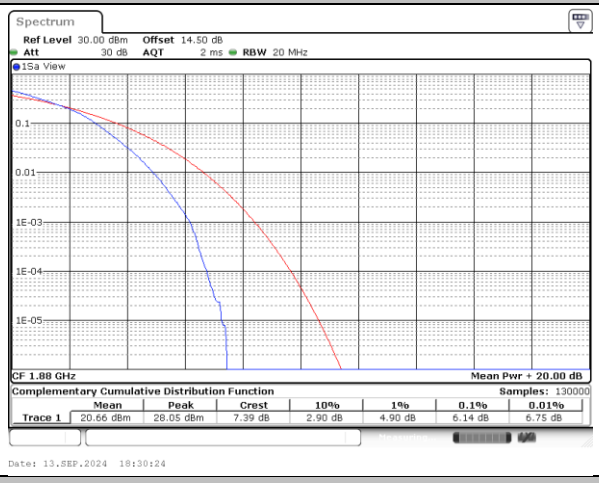
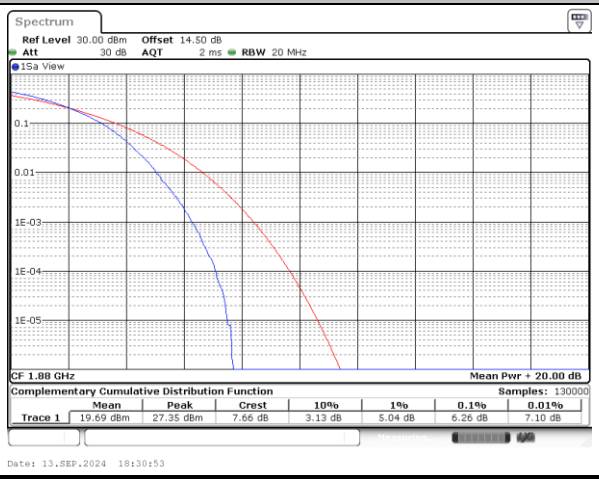
LTE_B66_Ant.0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	22.76	22.84	22.73	0.0946	0.0964	0.0940
20	QPSK	1	49	23.04	23.22	23.07	0.1009	0.1052	0.1016
20	QPSK	1	99	22.62	22.80	22.59	0.0916	0.0955	0.0910
20	QPSK	50	0	22.04	22.25	22.07	0.0802	0.0841	0.0807
20	QPSK	50	24	22.01	22.22	22.03	0.0796	0.0836	0.0800
20	QPSK	50	50	22.01	22.15	21.92	0.0796	0.0822	0.0780
20	QPSK	100	0	21.98	22.17	21.96	0.0791	0.0826	0.0787
20	16QAM	1	0	22.06	22.32	21.98	0.0805	0.0855	0.0791
20	64QAM	1	0	20.84	20.95	20.96	0.0608	0.0624	0.0625
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	22.67	22.68	22.64	0.0927	0.0929	0.0920
15	16QAM	1	0	21.91	22.12	21.79	0.0778	0.0817	0.0757
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	22.62	22.79	22.67	0.0916	0.0953	0.0927
10	16QAM	1	0	22.02	22.07	21.90	0.0798	0.0807	0.0776
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.71	22.74	22.66	0.0935	0.0942	0.0925
5	16QAM	1	0	22.05	22.15	21.89	0.0804	0.0822	0.0774
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	22.58	22.75	22.60	0.0908	0.0944	0.0912
3	16QAM	1	0	21.96	22.04	21.87	0.0787	0.0802	0.0771
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	22.97	22.91	23.13	0.0993	0.0979	0.1030
1.4	16QAM	1	0	22.25	22.11	22.15	0.0841	0.0815	0.0822

LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.14	6.26	PASS

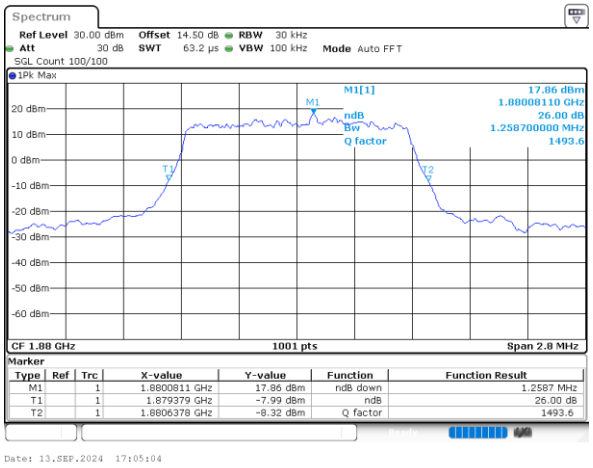
LTE Band 2 / 20MHz / QPSK	LTE Band 2 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 2 / 20MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

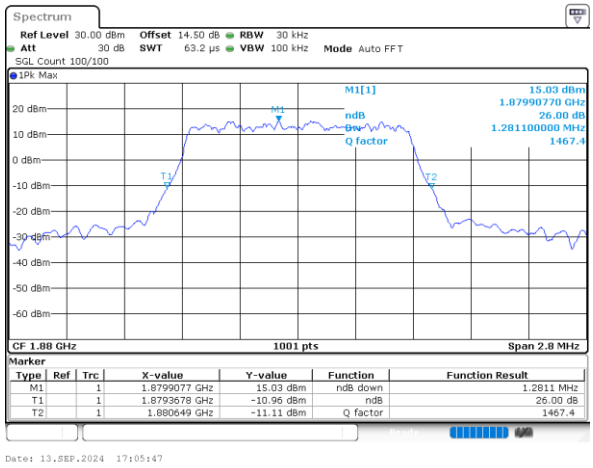
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.26	1.28	2.95	2.93	4.86	4.79	9.71	9.69	14.18	14.36	18.94	18.62

LTE Band 2

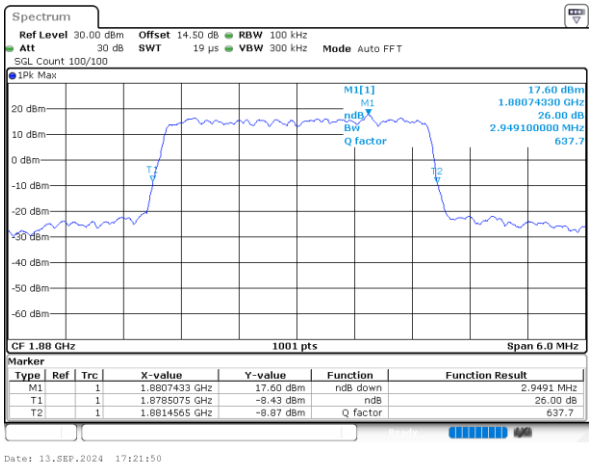
Middle Channel / 1.4MHz / QPSK



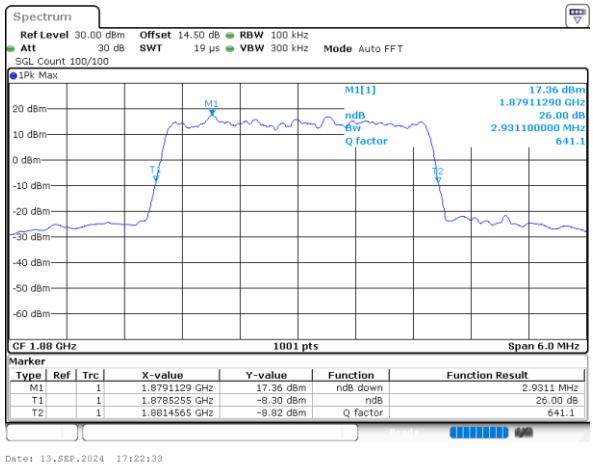
Middle Channel / 1.4MHz / 16QAM

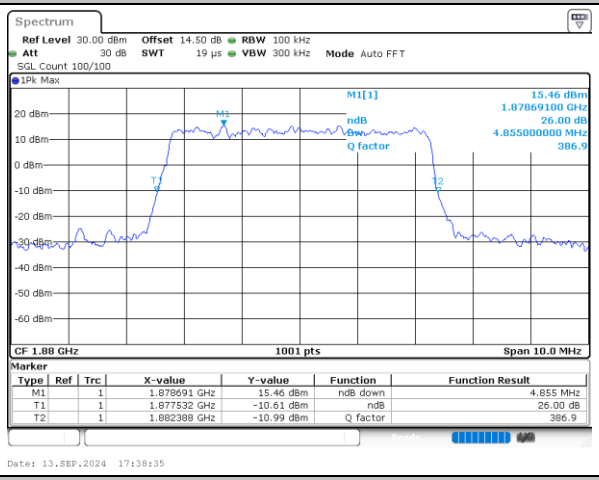
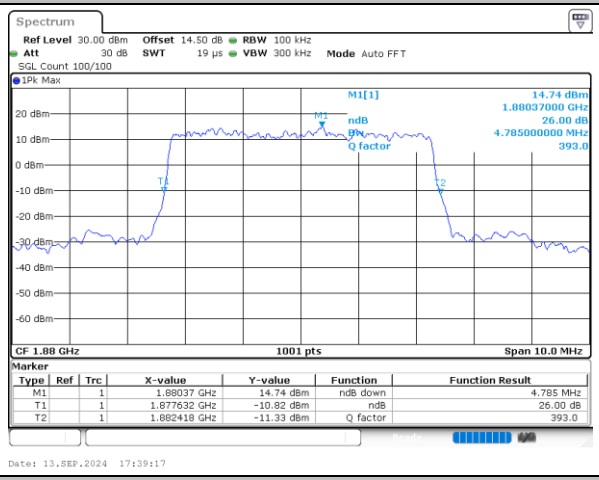


Middle Channel / 3MHz / QPSK

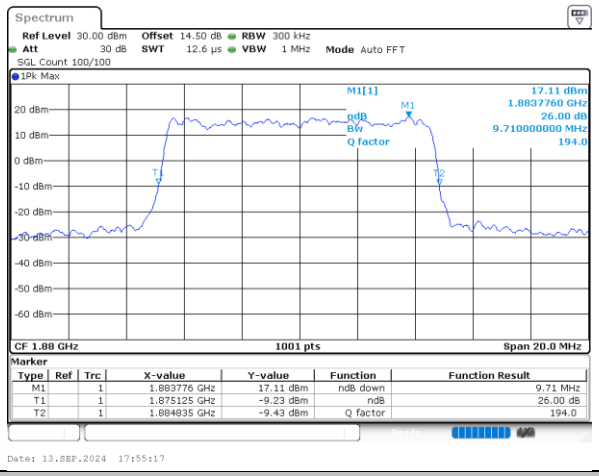
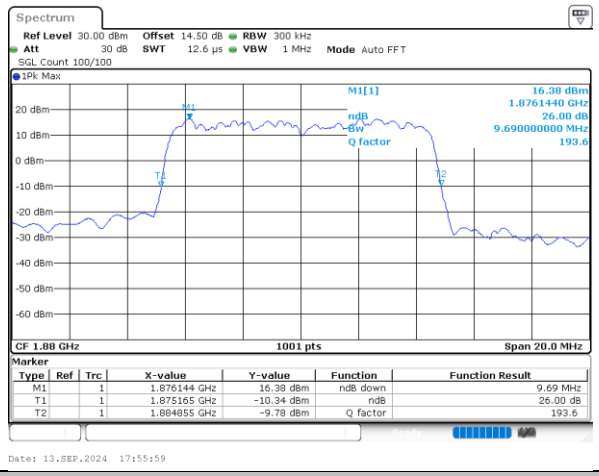
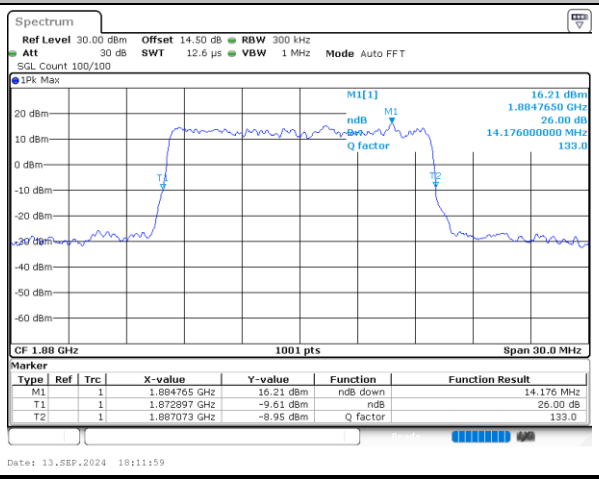
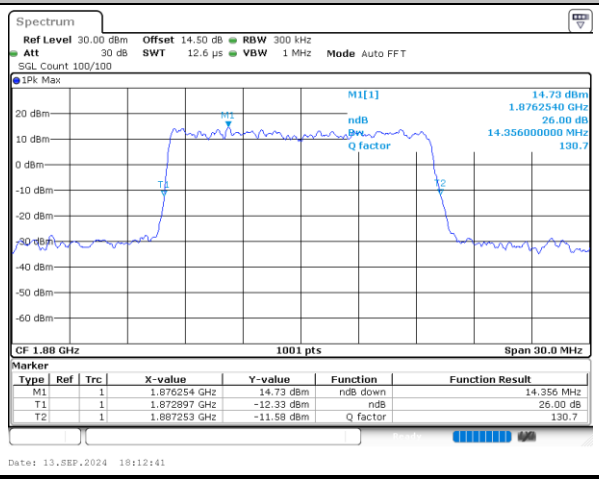


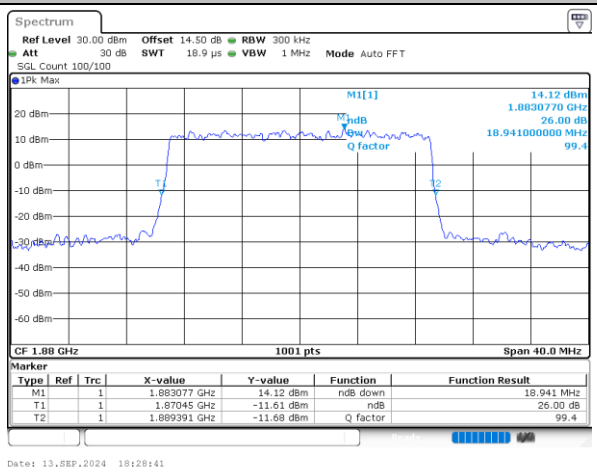
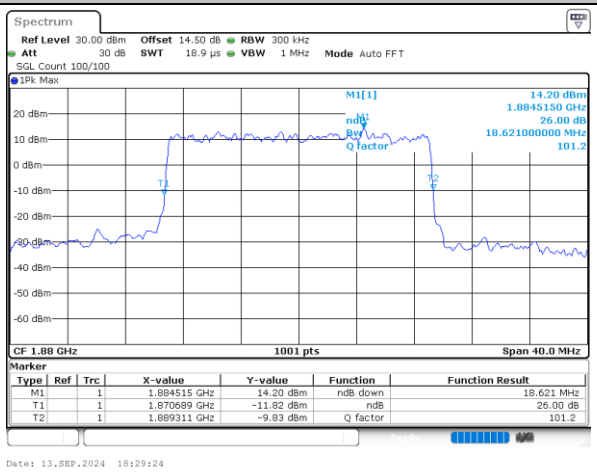
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK	Middle Channel / 5MHz / 16QAM
	

LTE Band 2

Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
	

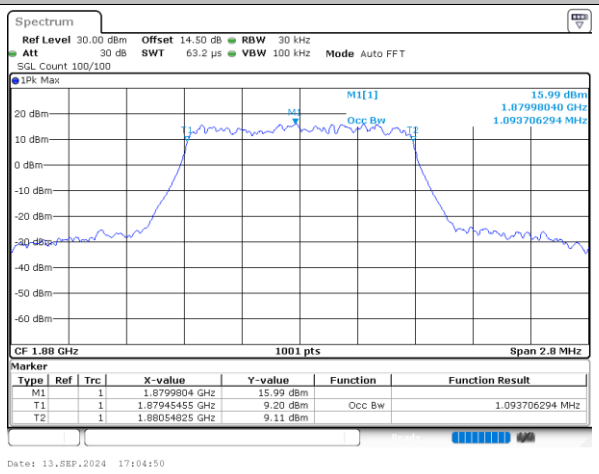
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM
	

Occupied Bandwidth

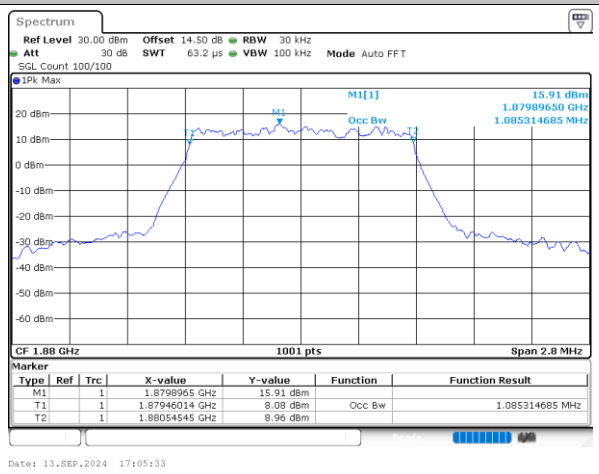
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.70	2.70	4.47	4.47	9.01	9.01	13.43	13.43	17.98	17.90

LTE Band 2

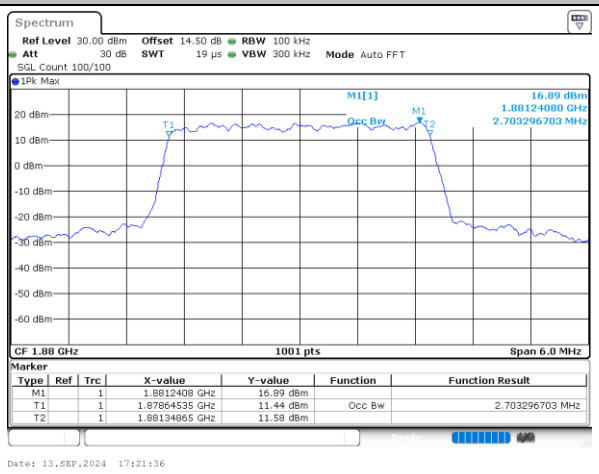
Middle Channel / 1.4MHz / QPSK



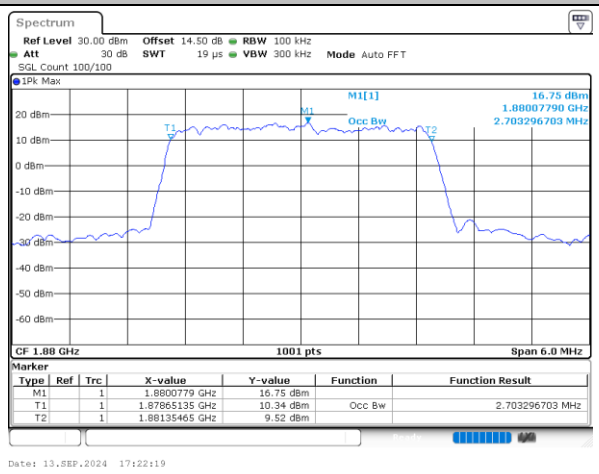
Middle Channel / 1.4MHz / 16QAM

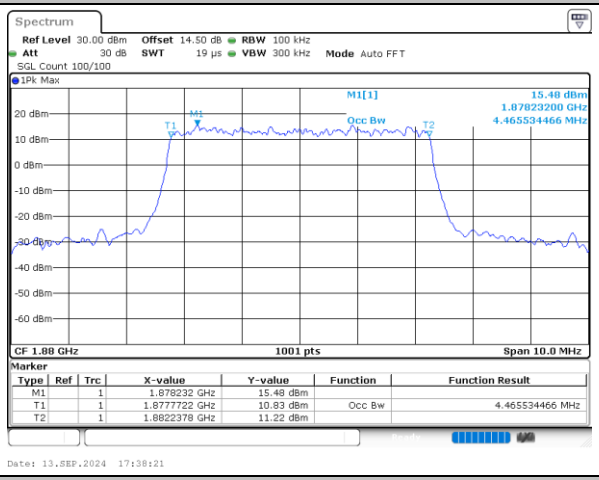
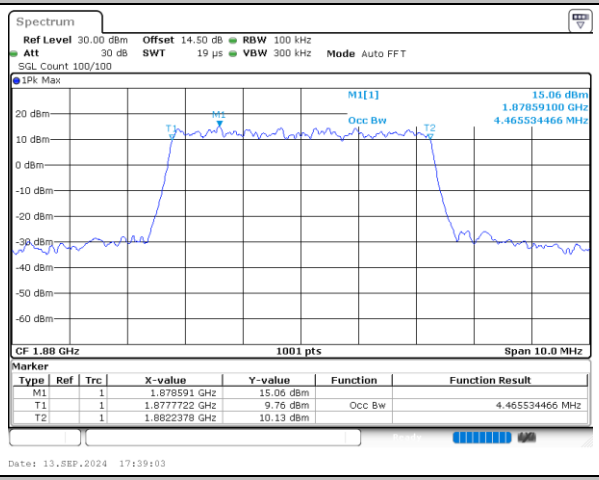


Middle Channel / 3MHz / QPSK

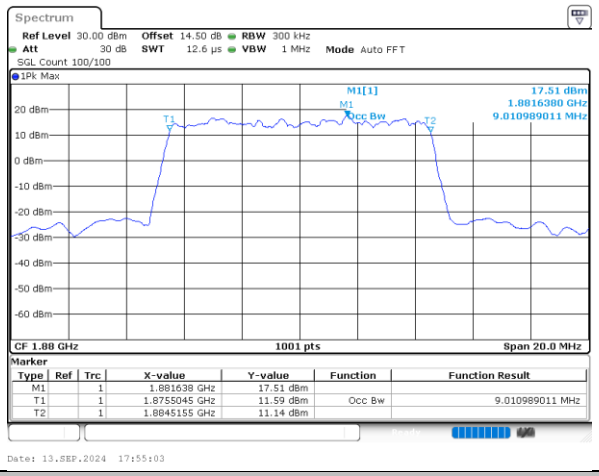
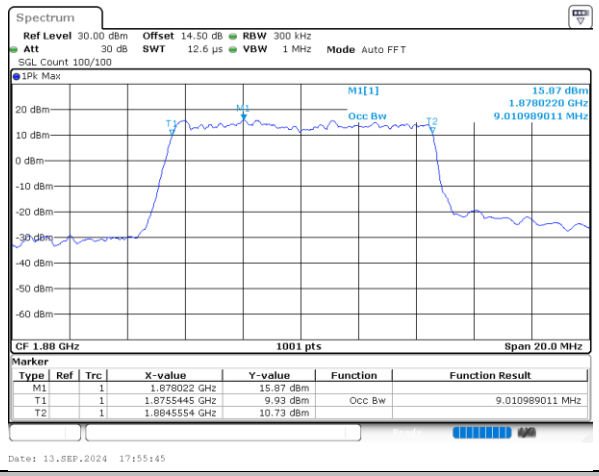
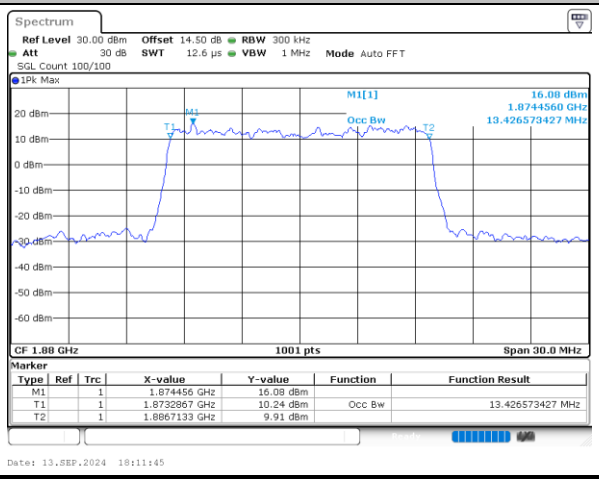
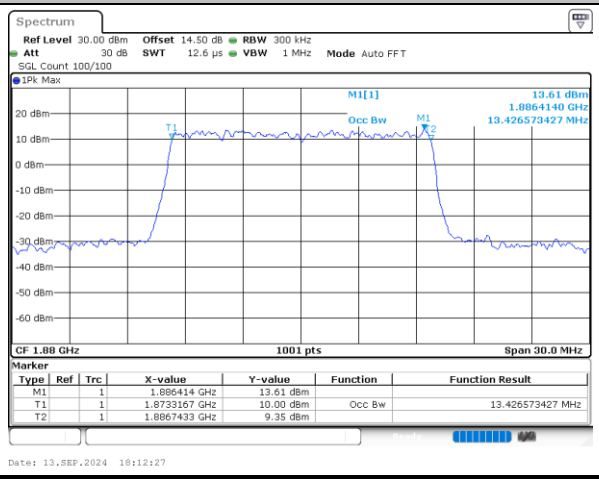


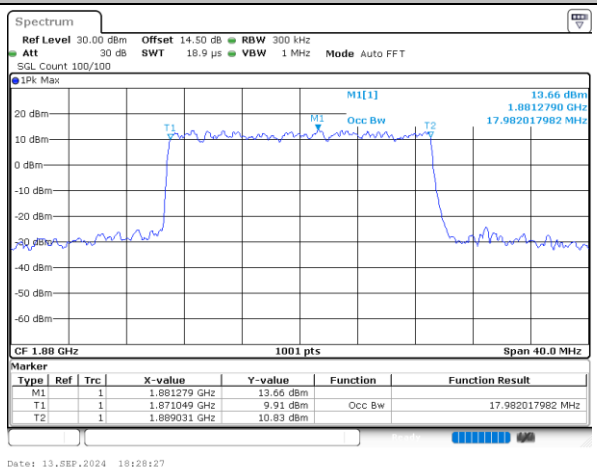
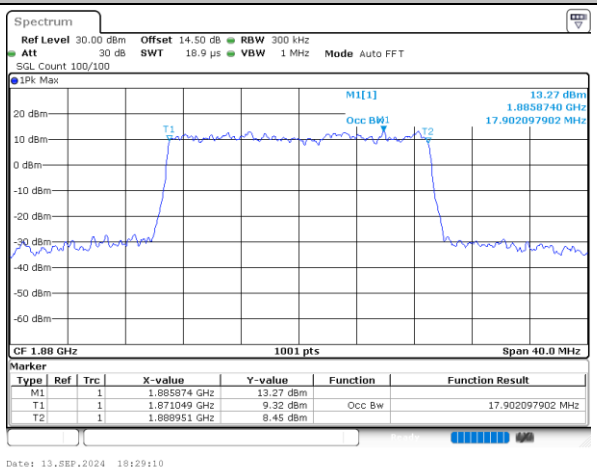
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK	Middle Channel / 5MHz / 16QAM
	

LTE Band 2

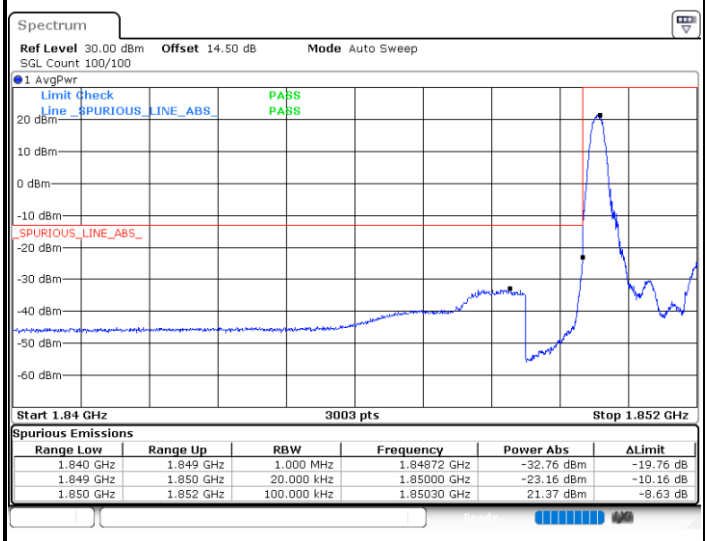
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
	

Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM
	

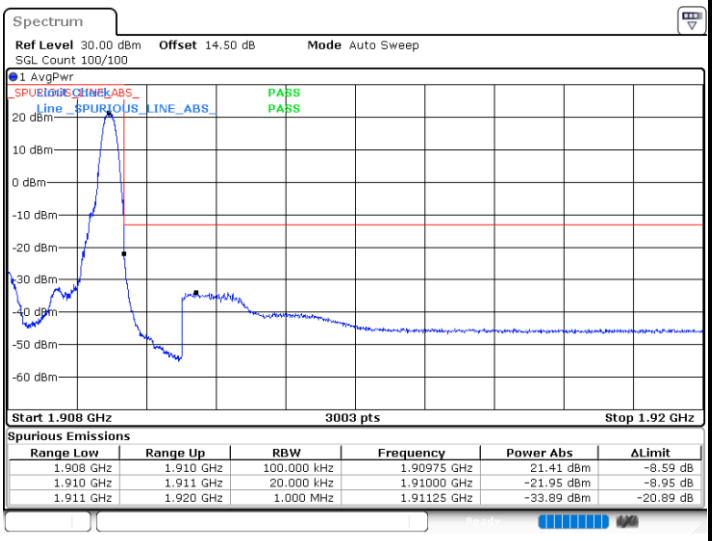
Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

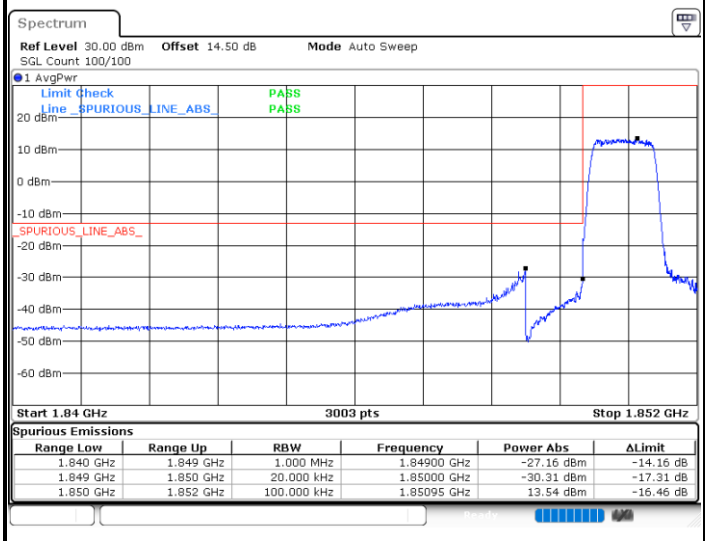
Lowest Band Edge / 1RB



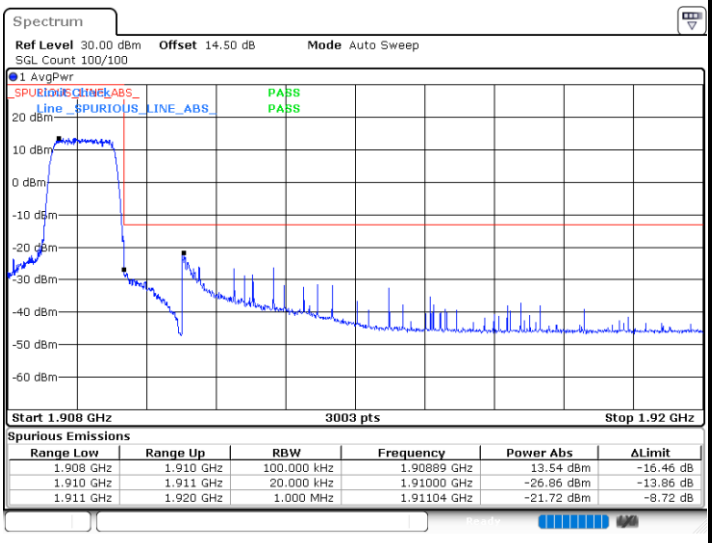
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

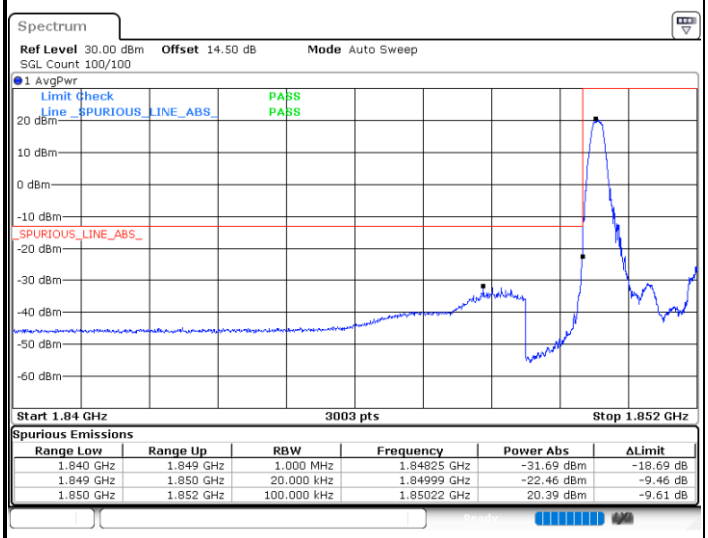


Highest Band Edge / Full RB

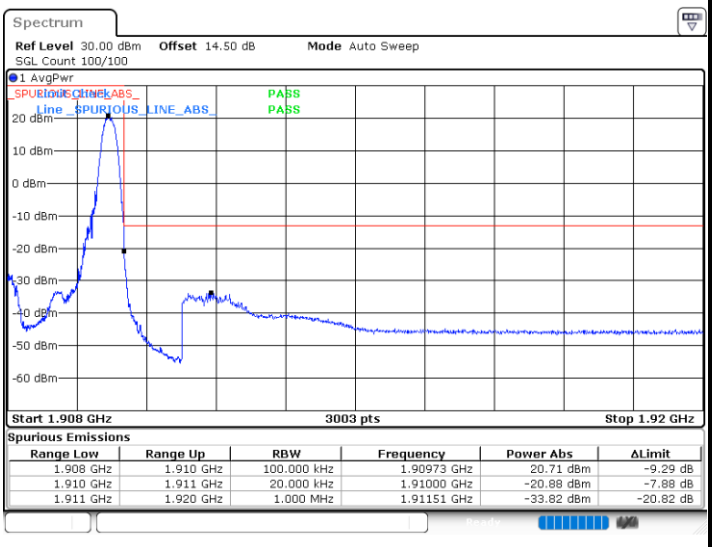


LTE Band 2 / 1.4MHz / 16QAM

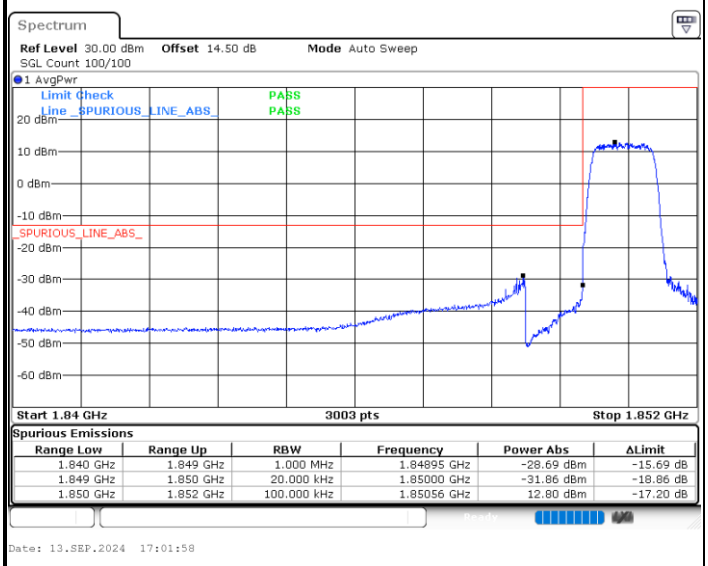
Lowest Band Edge / 1 RB



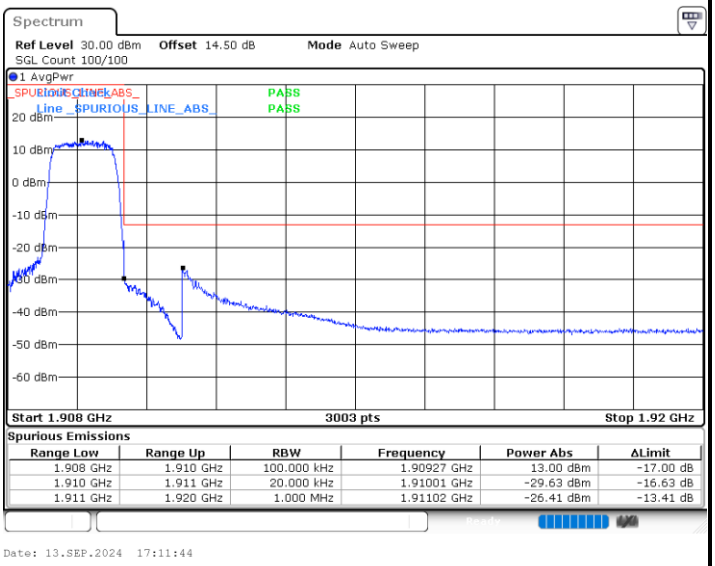
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

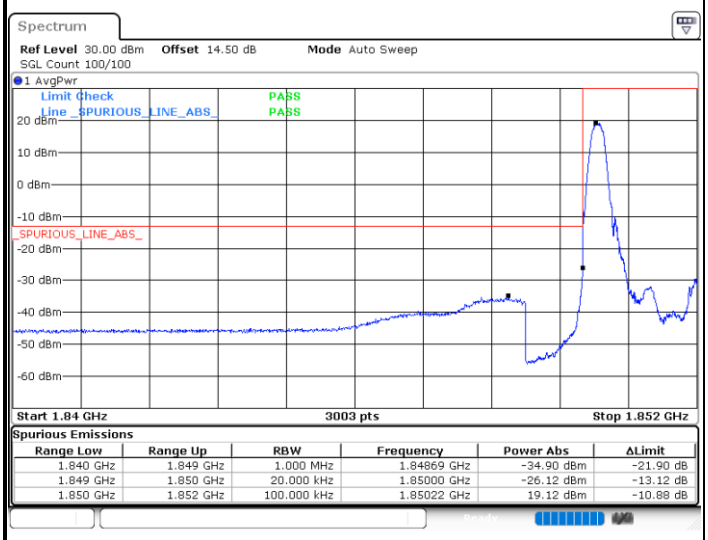


Highest Band Edge / Full RB

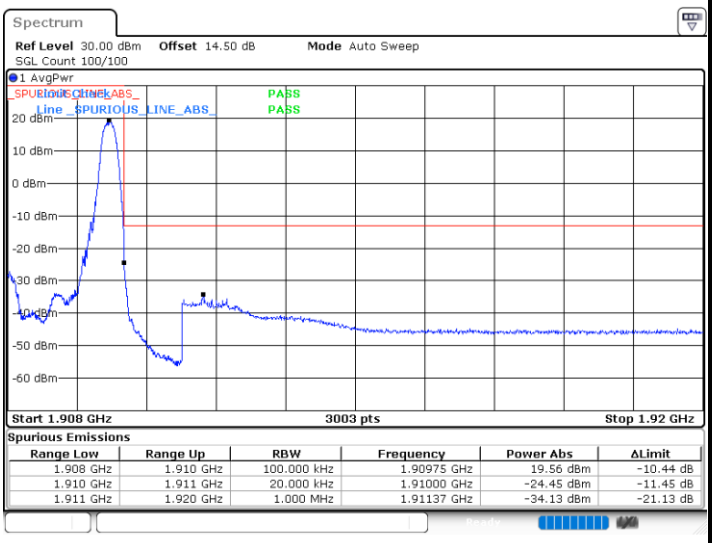


LTE Band 2 / 1.4MHz / 64QAM

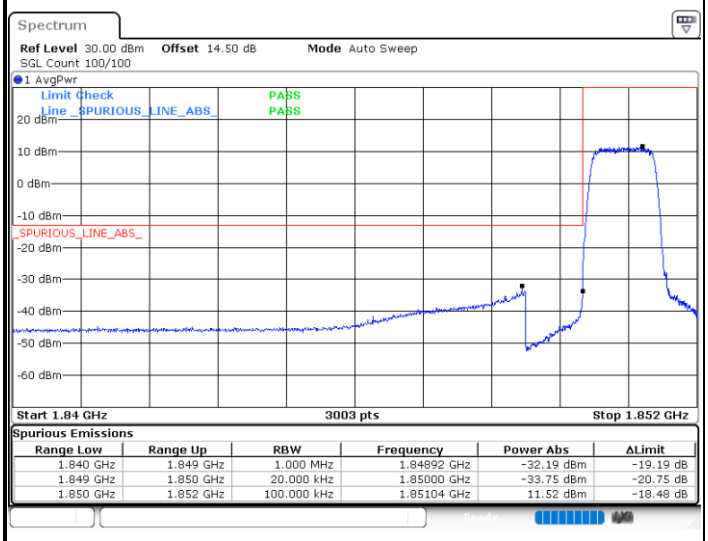
Lowest Band Edge / 1 RB



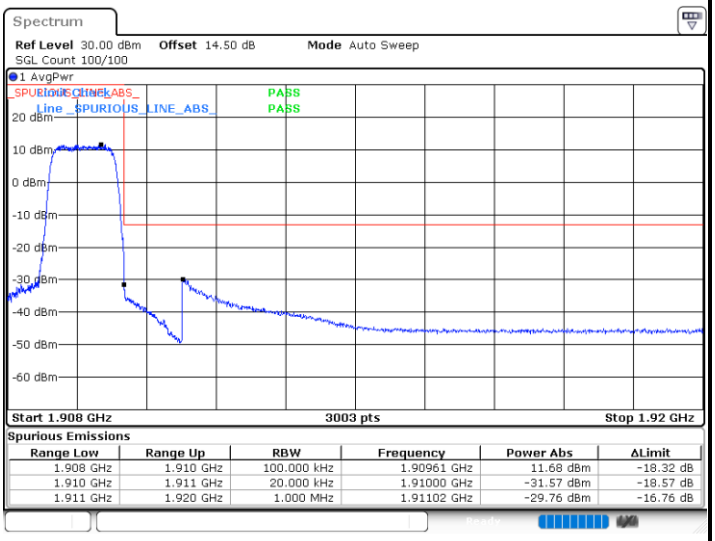
Highest Band Edge / 1 RB

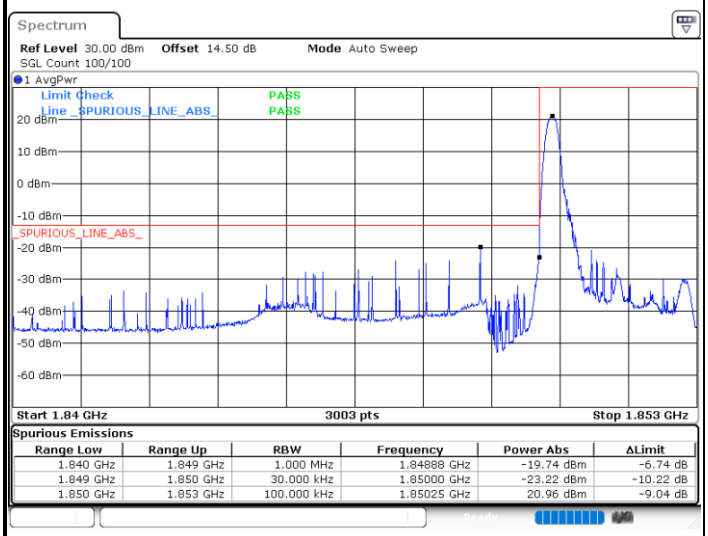
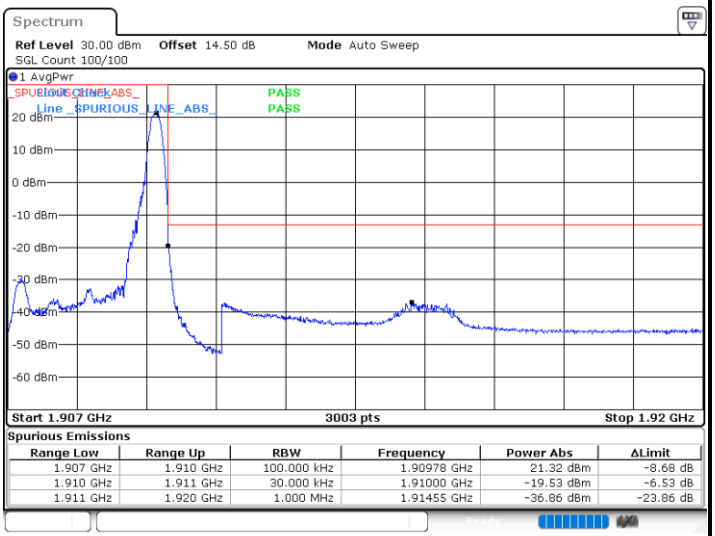
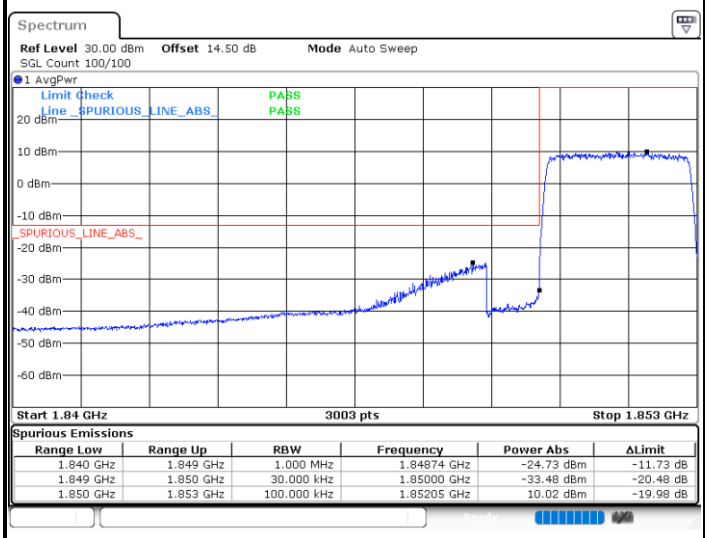
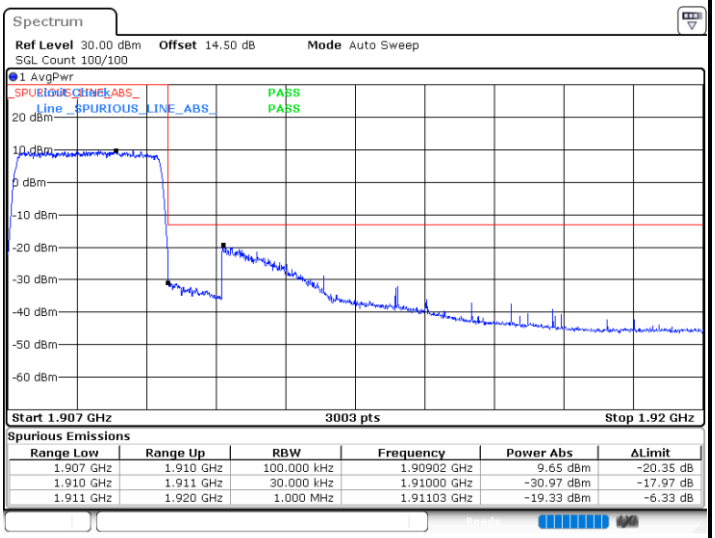


Lowest Band Edge / Full RB



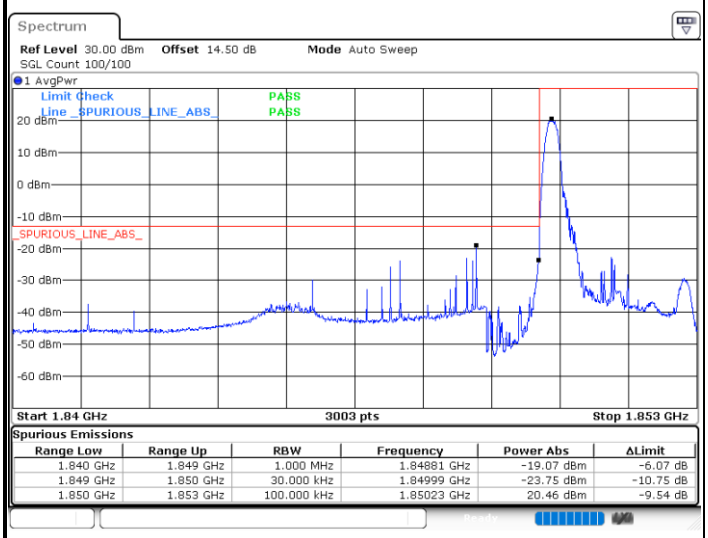
Highest Band Edge / Full RB



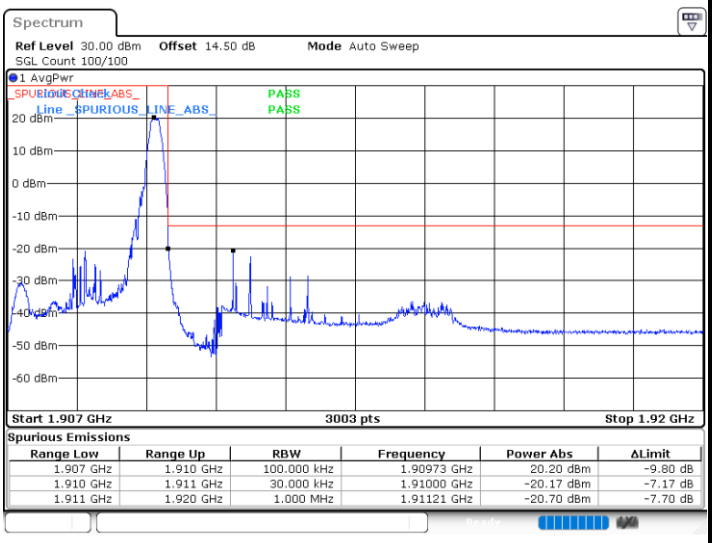
LTE Band 2 / 3MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 2 / 3MHz / 16QAM

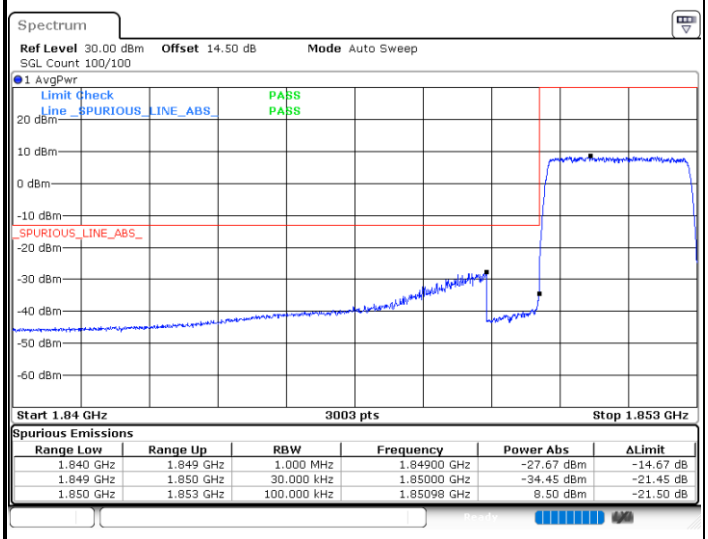
Lowest Band Edge / 1 RB



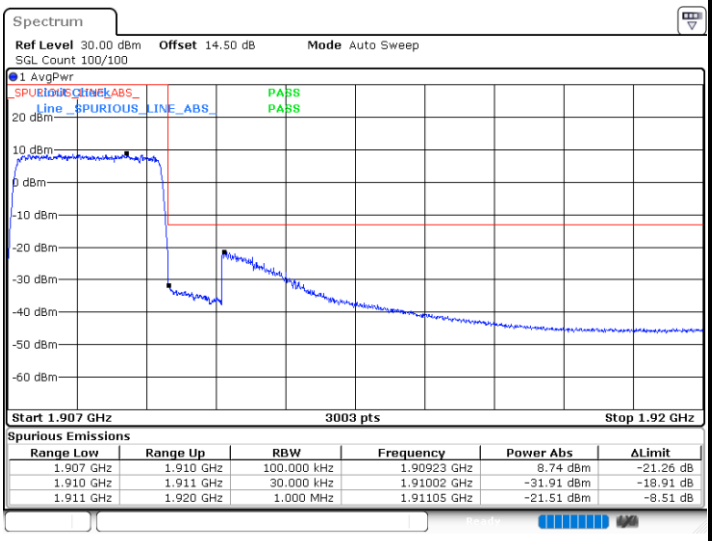
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

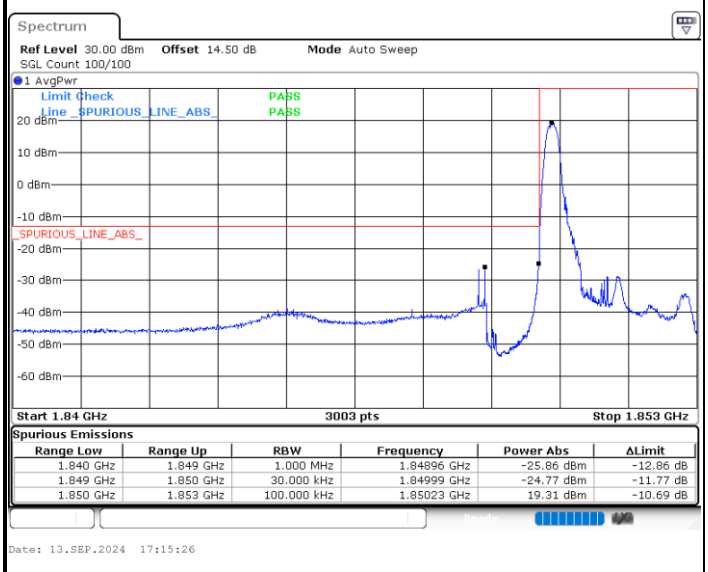


Highest Band Edge / Full RB

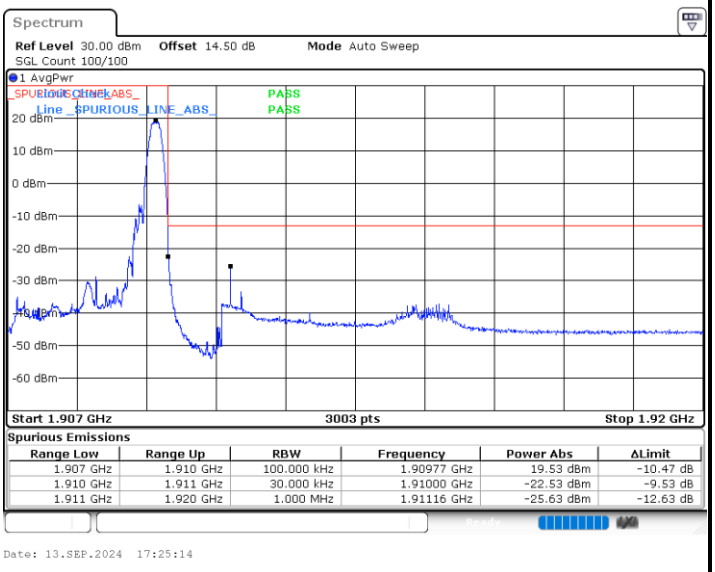


LTE Band 2 / 3MHz / 64QAM

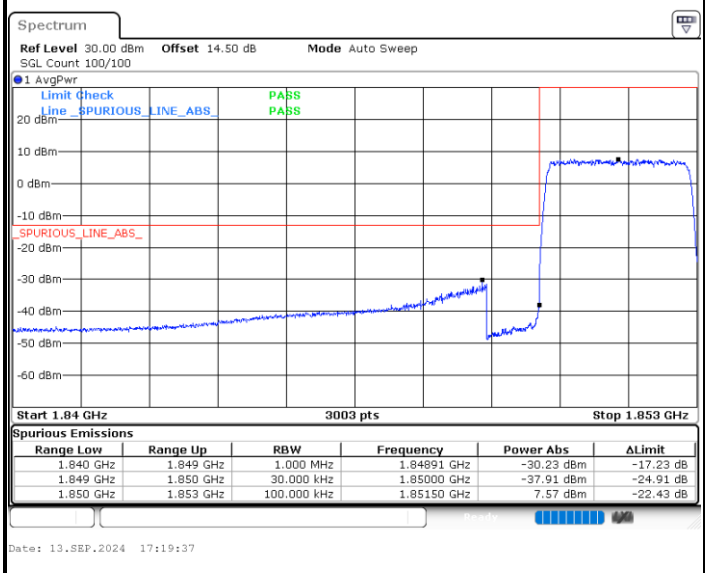
Lowest Band Edge / 1 RB



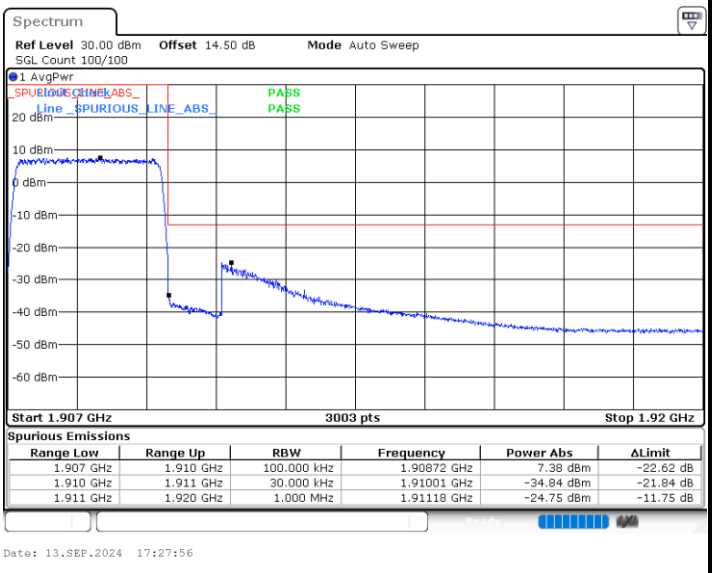
Highest Band Edge / 1 RB

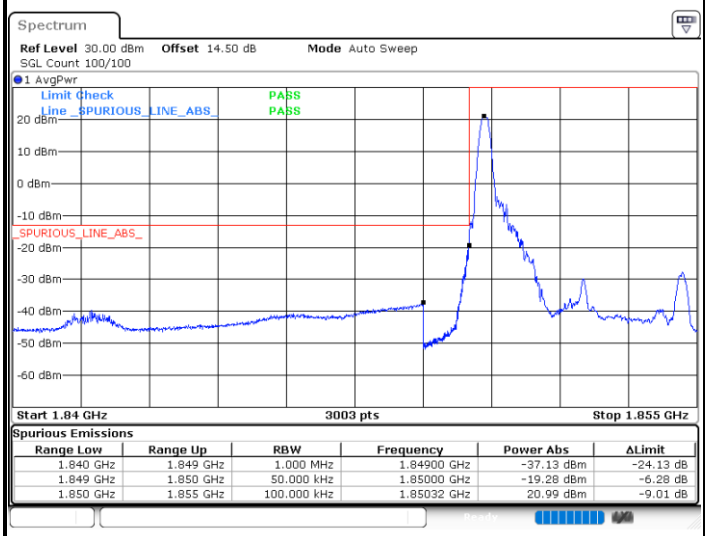
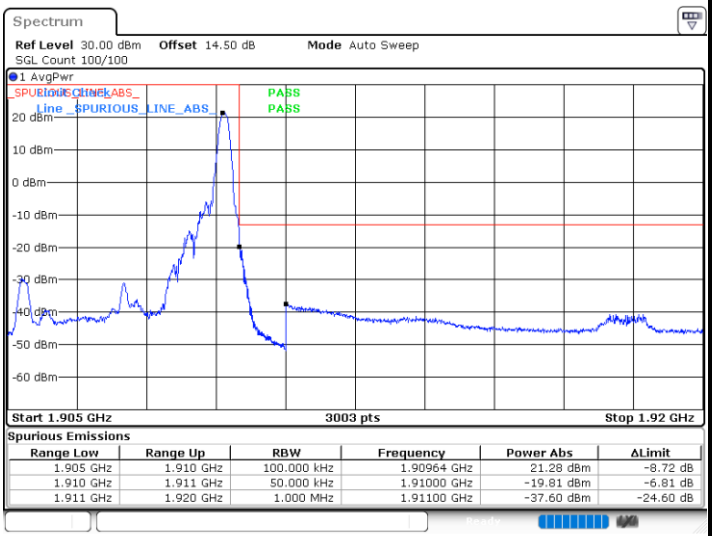
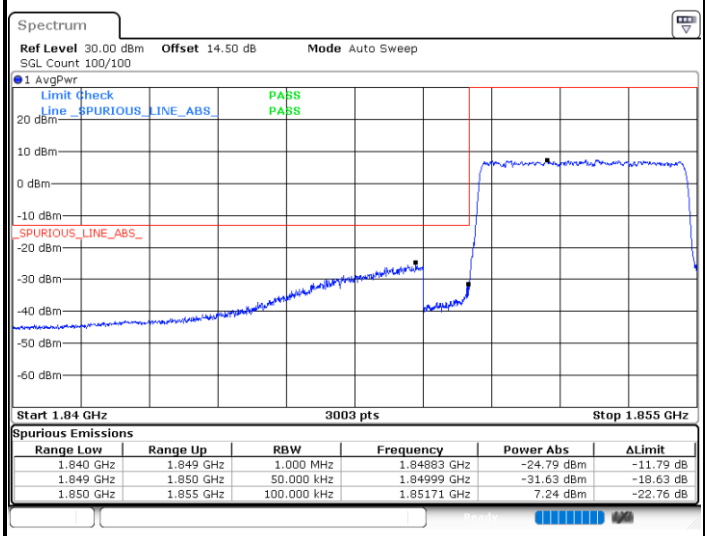
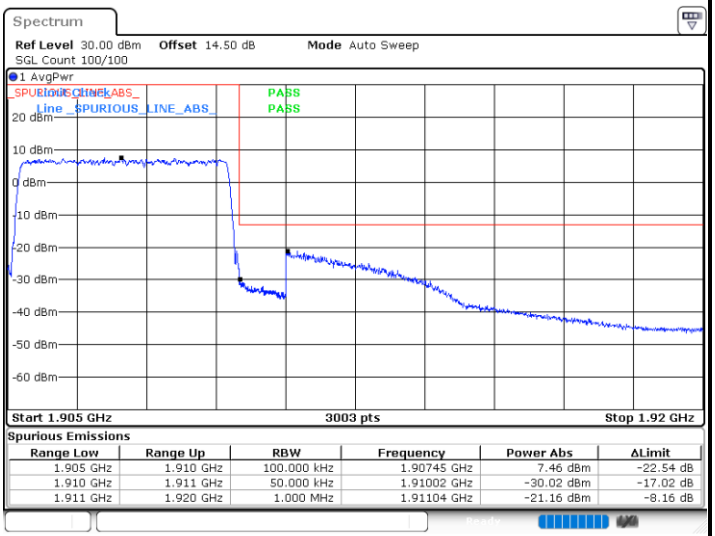


Lowest Band Edge / Full RB



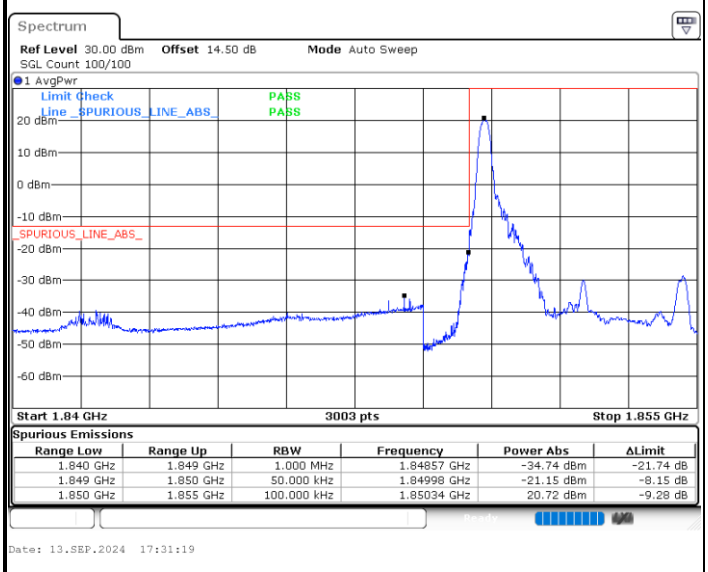
Highest Band Edge / Full RB



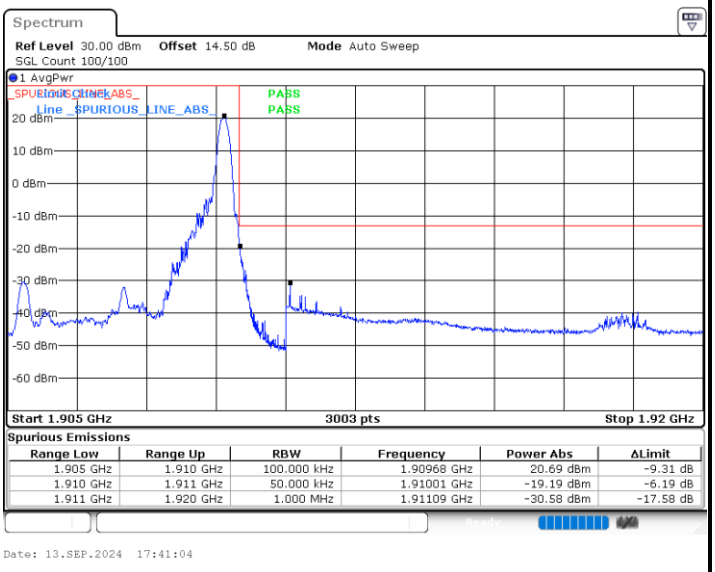
LTE Band 2 / 5MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 2 / 5MHz / 16QAM

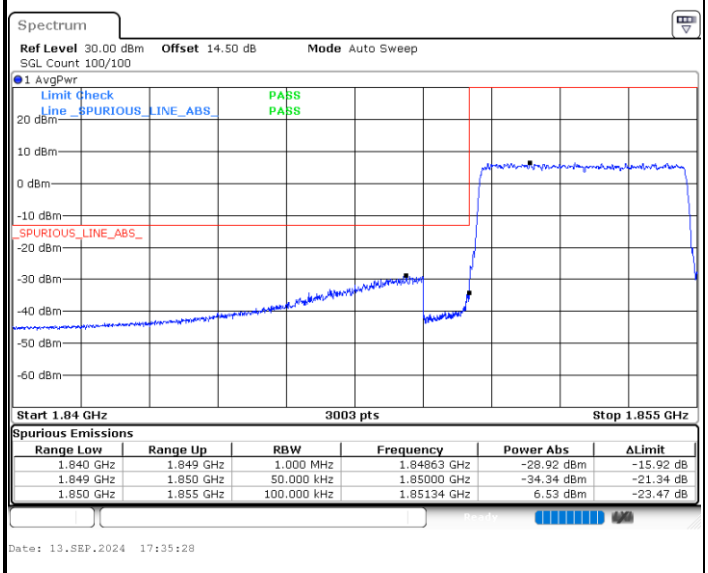
Lowest Band Edge / 1 RB



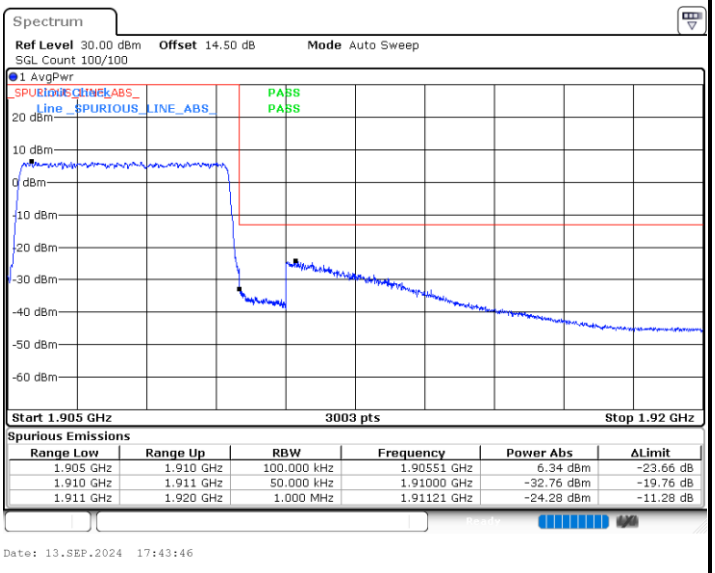
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

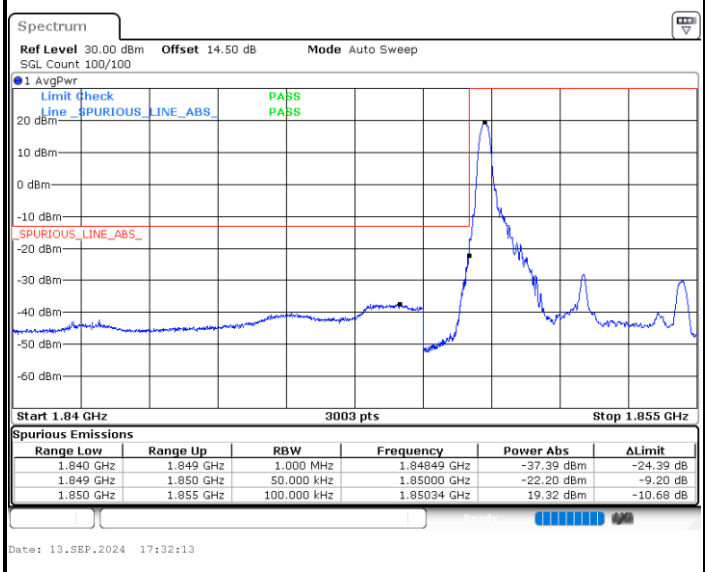


Highest Band Edge / Full RB

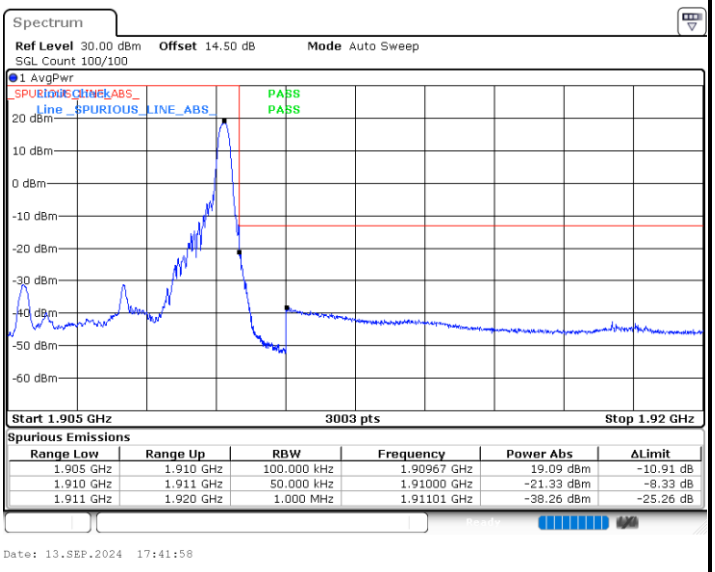


LTE Band 2 / 5MHz / 64QAM

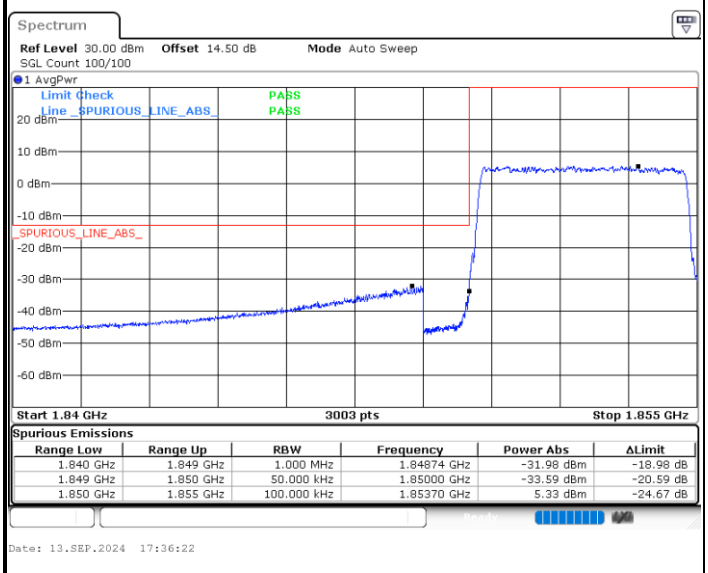
Lowest Band Edge / 1 RB



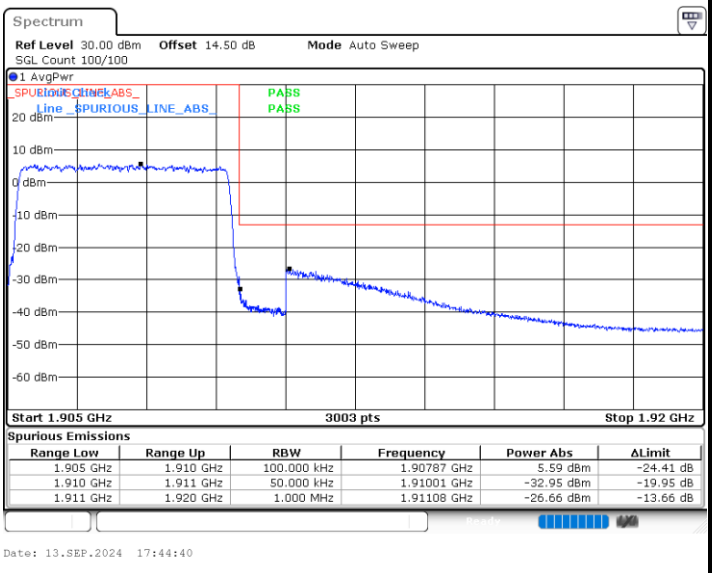
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

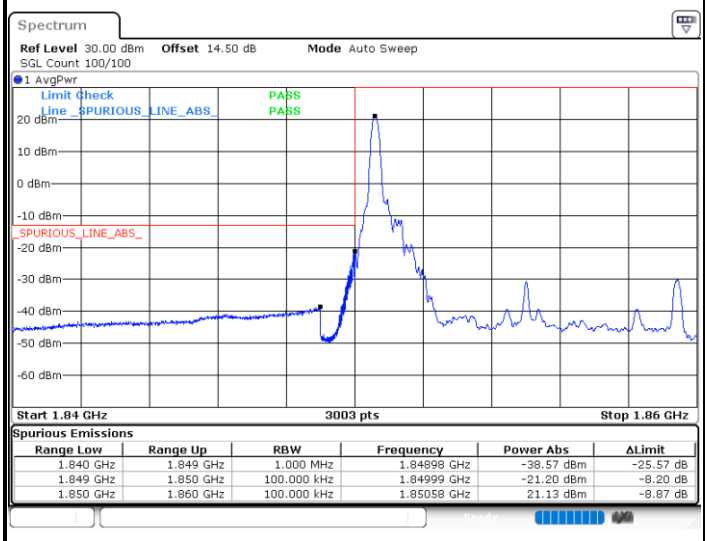


Highest Band Edge / Full RB

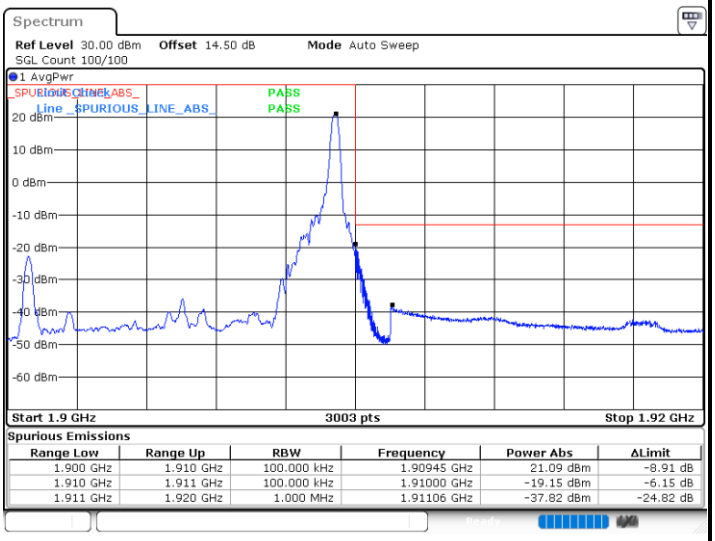


LTE Band 2 / 10MHz / QPSK

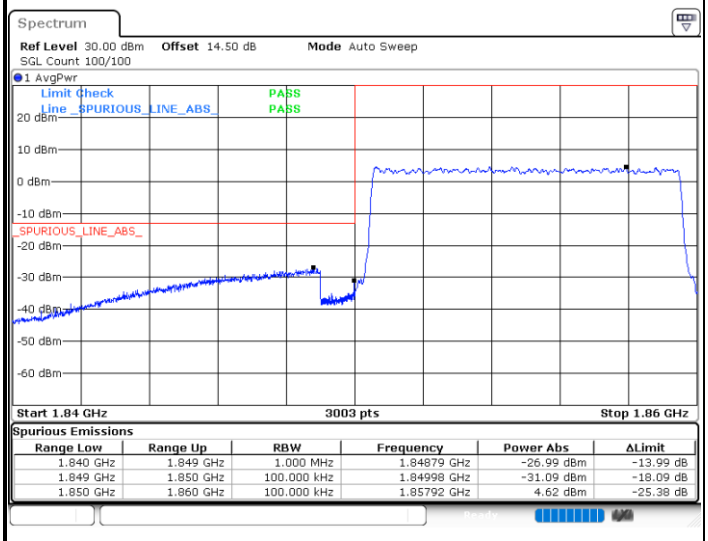
Lowest Band Edge / 1RB



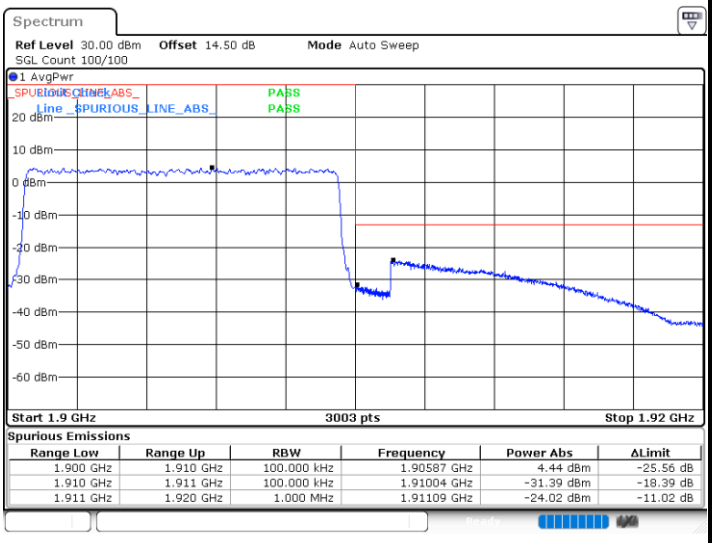
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

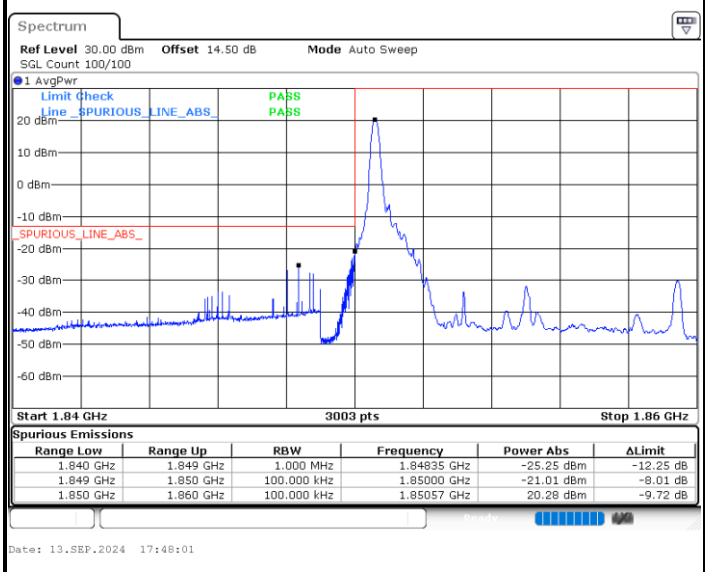


Highest Band Edge / Full RB

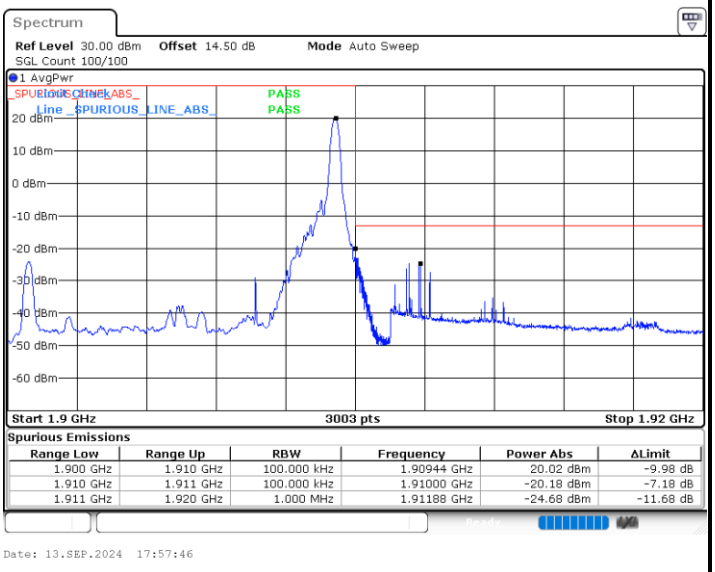


LTE Band 2 / 10MHz / 16QAM

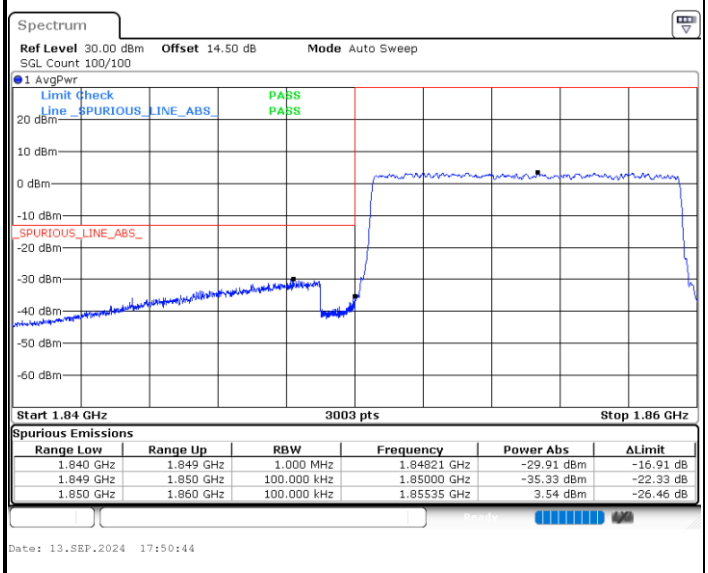
Lowest Band Edge / 1 RB



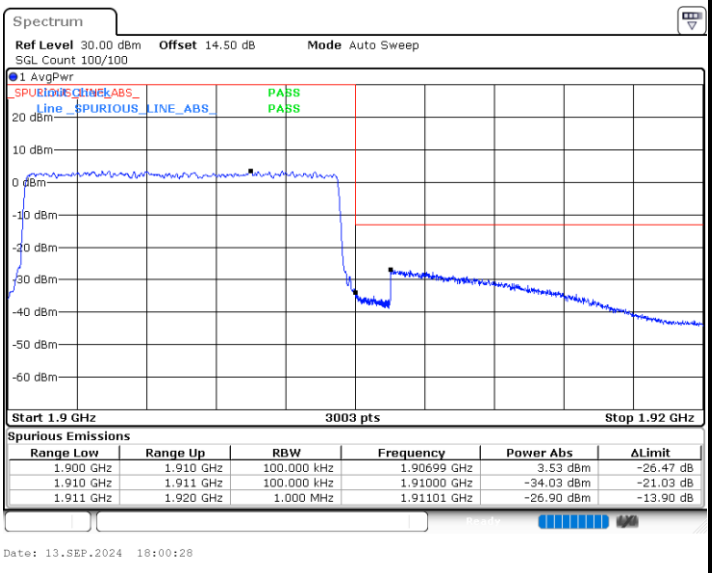
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

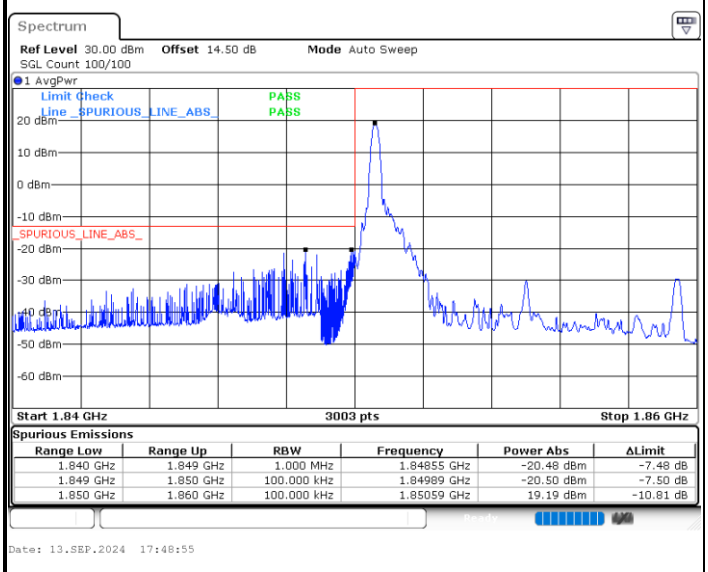


Highest Band Edge / Full RB



LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84855 GHz	-20.48 dBm	-7.48 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84989 GHz	-20.50 dBm	-7.50 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85059 GHz	19.19 dBm	-10.81 dB

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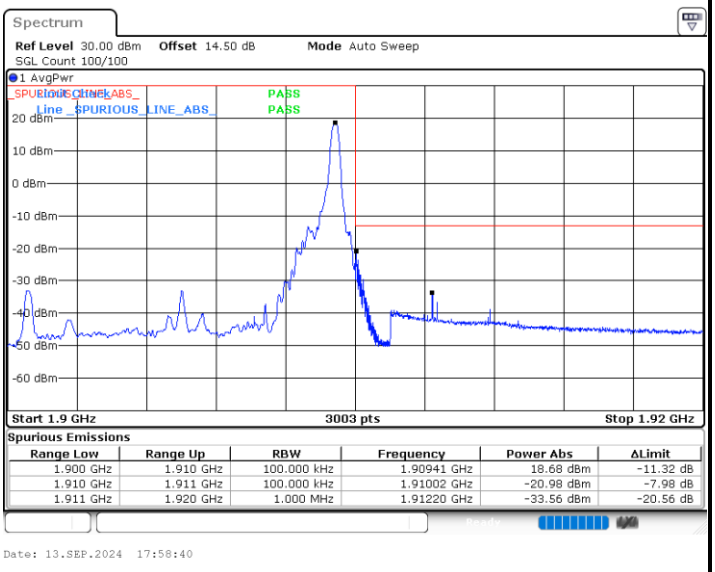
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90941 GHz	18.68 dBm	-11.32 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91002 GHz	-20.98 dBm	-7.98 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91220 GHz	-33.56 dBm	-20.56 dB

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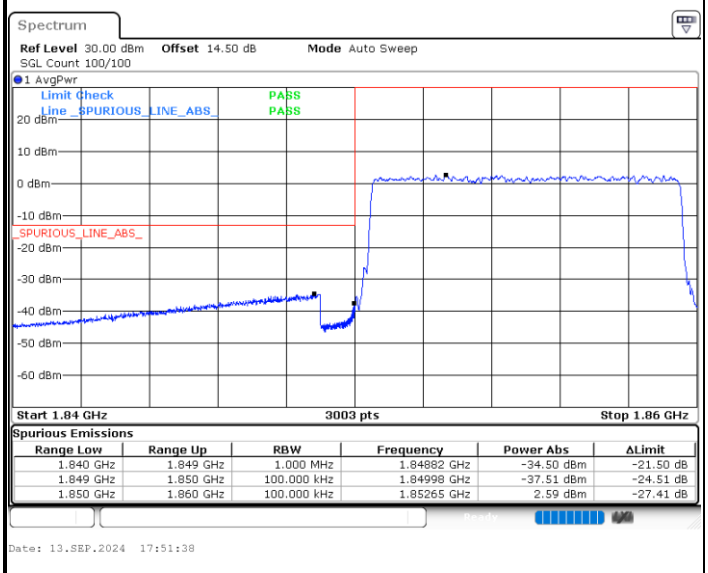
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84882 GHz	-34.50 dBm	-21.50 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84998 GHz	-37.51 dBm	-24.51 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85265 GHz	2.59 dBm	-27.41 dB

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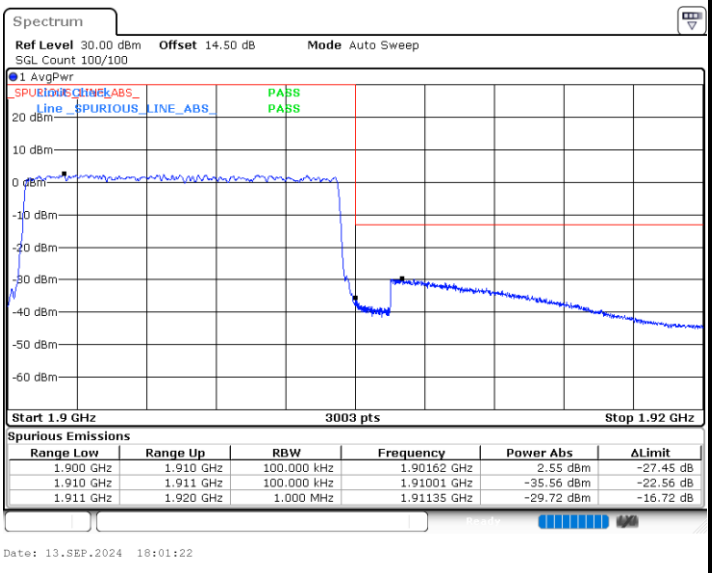
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90162 GHz	2.55 dBm	-27.45 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-35.56 dBm	-22.56 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91135 GHz	-29.72 dBm	-16.72 dB

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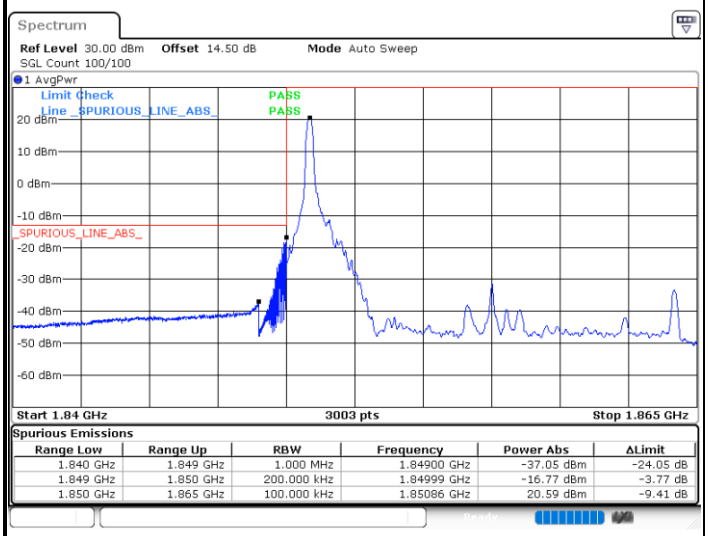
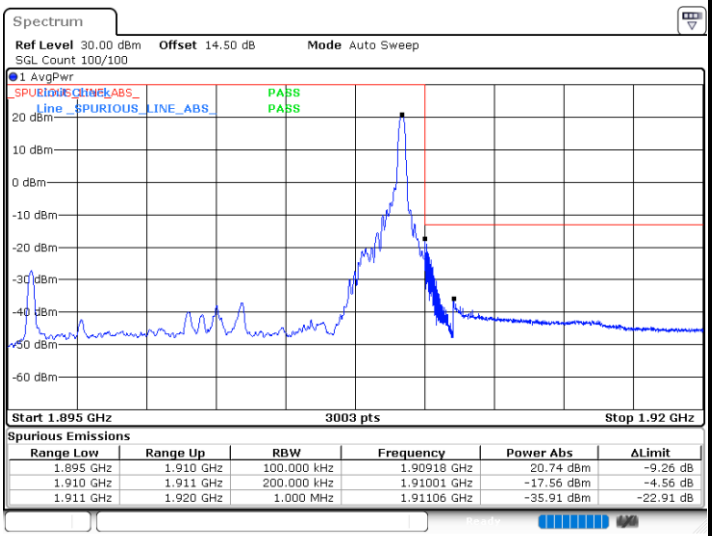
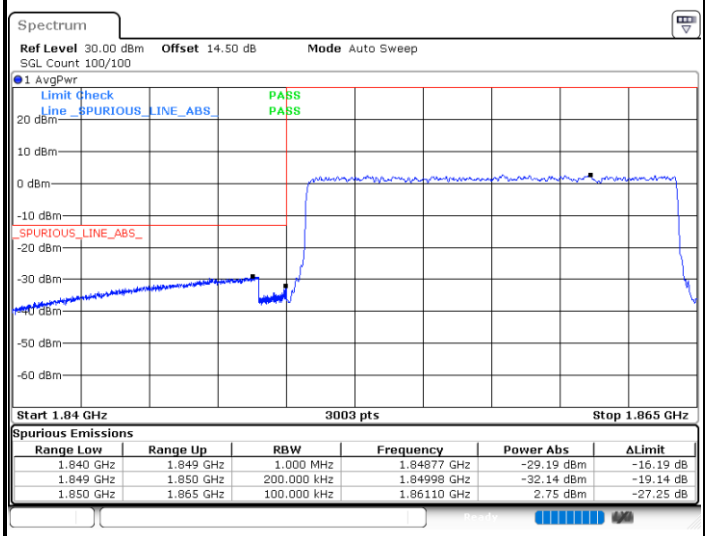
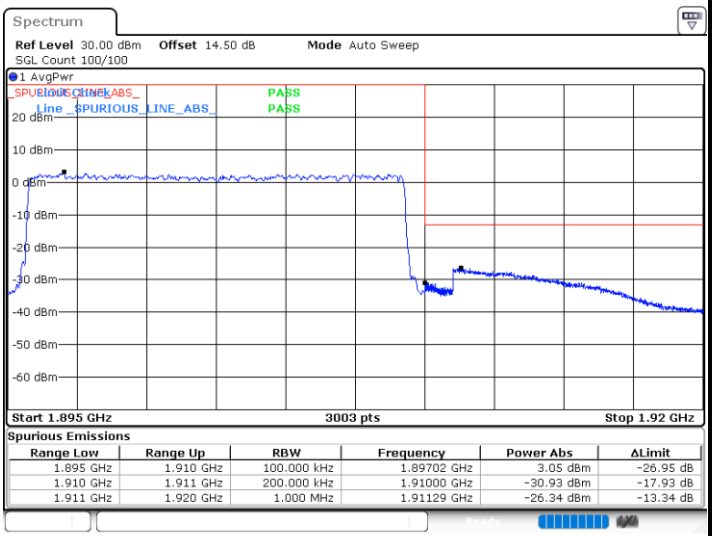
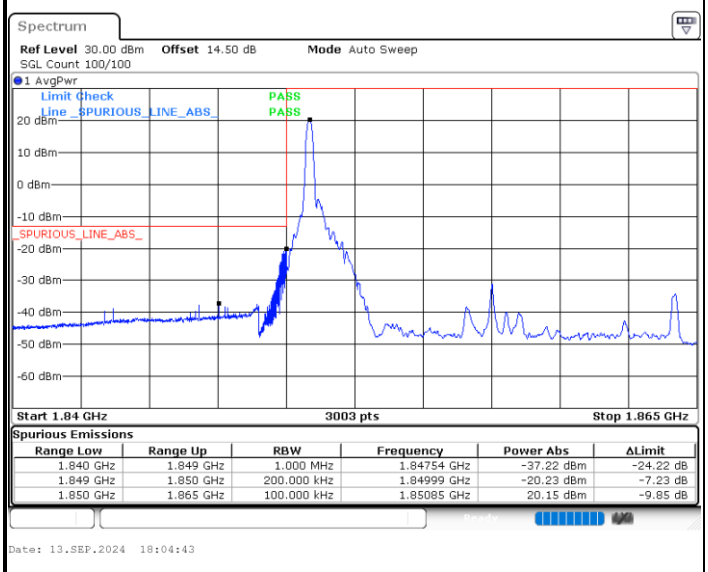
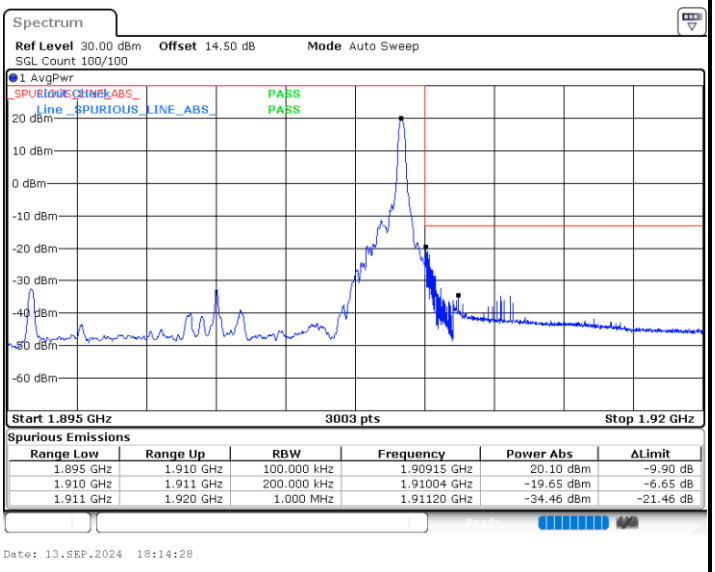
LTE Band 2 / 15MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 2 / 15MHz / 16QAM

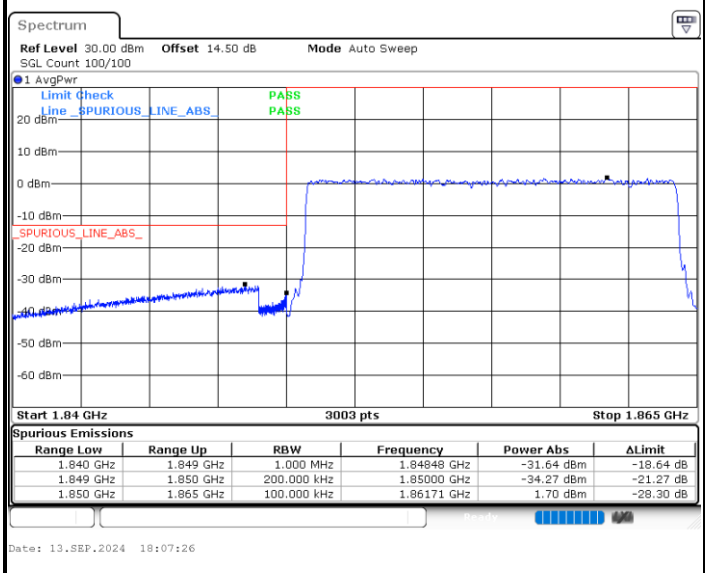
Lowest Band Edge / 1 RB



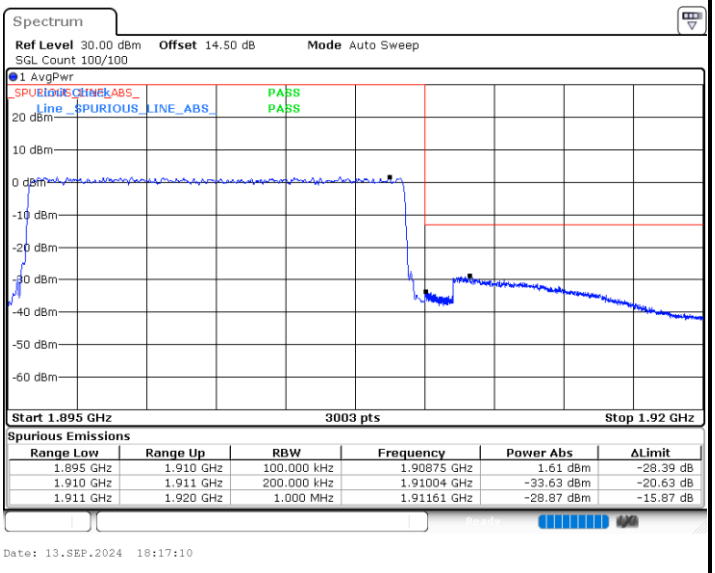
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

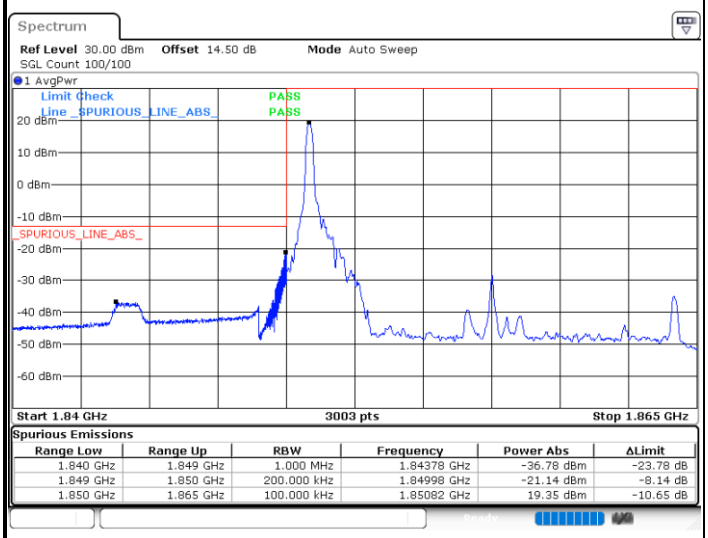


Highest Band Edge / Full RB



LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84378 GHz	-36.78 dBm	-23.78 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84998 GHz	-21.14 dBm	-8.14 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85082 GHz	19.35 dBm	-10.65 dB

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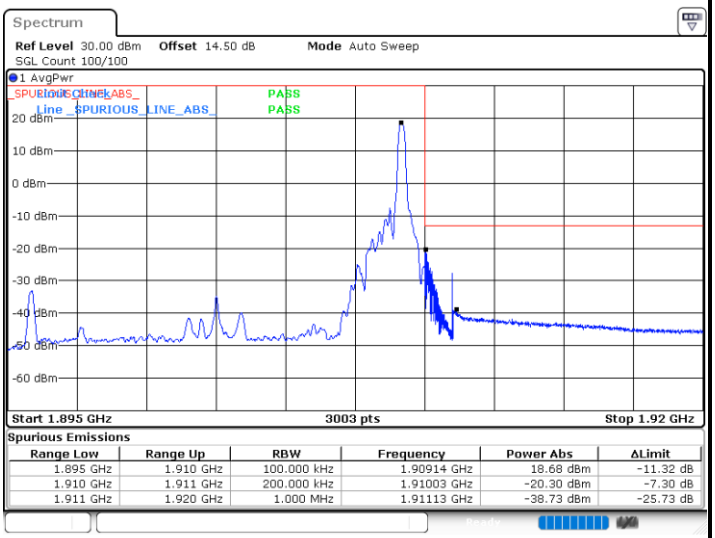
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90914 GHz	18.68 dBm	-11.32 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91003 GHz	-20.30 dBm	-7.30 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91113 GHz	-38.73 dBm	-25.73 dB

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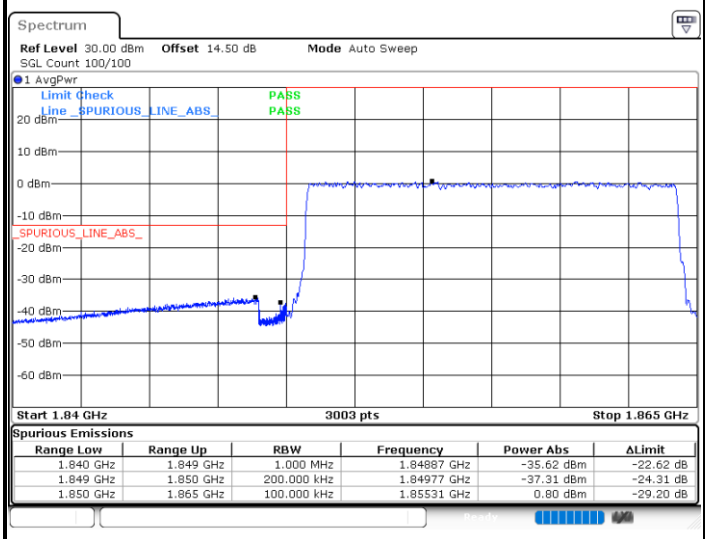
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84887 GHz	-35.62 dBm	-22.62 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84977 GHz	-37.31 dBm	-24.31 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85531 GHz	0.80 dBm	-29.20 dB

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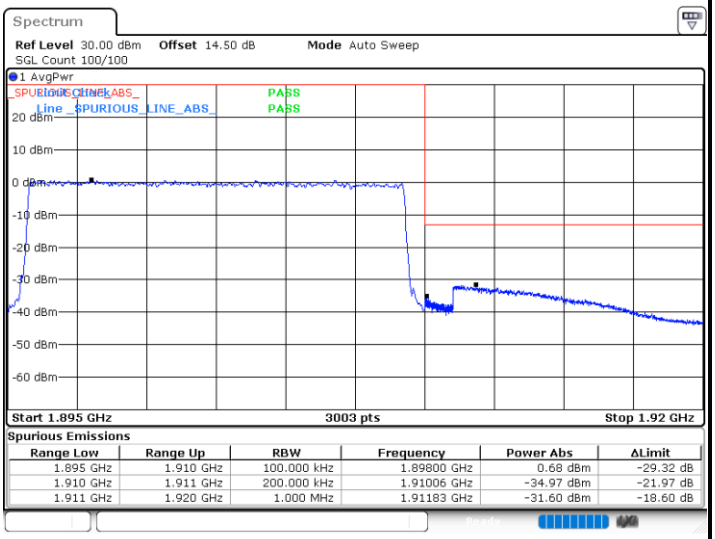
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89800 GHz	0.68 dBm	-29.32 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91006 GHz	-34.97 dBm	-21.97 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91183 GHz	-31.60 dBm	-18.60 dB

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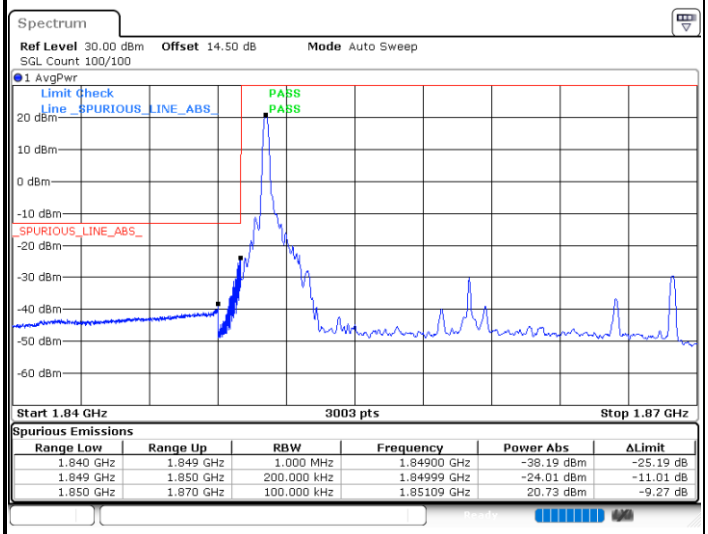
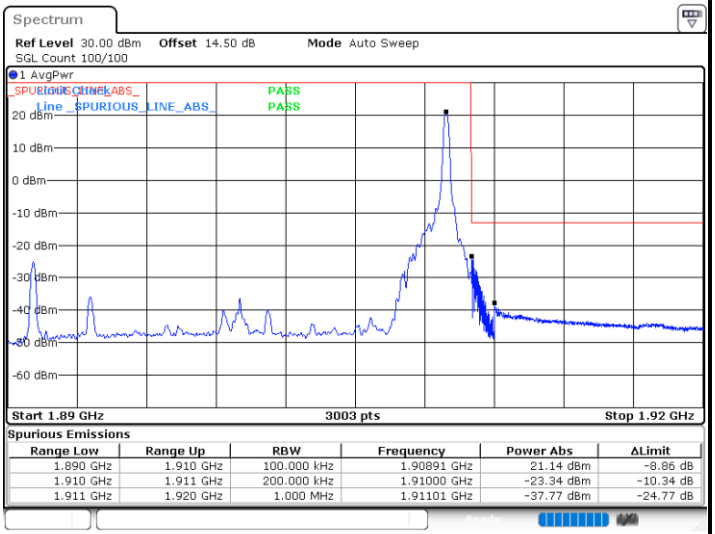
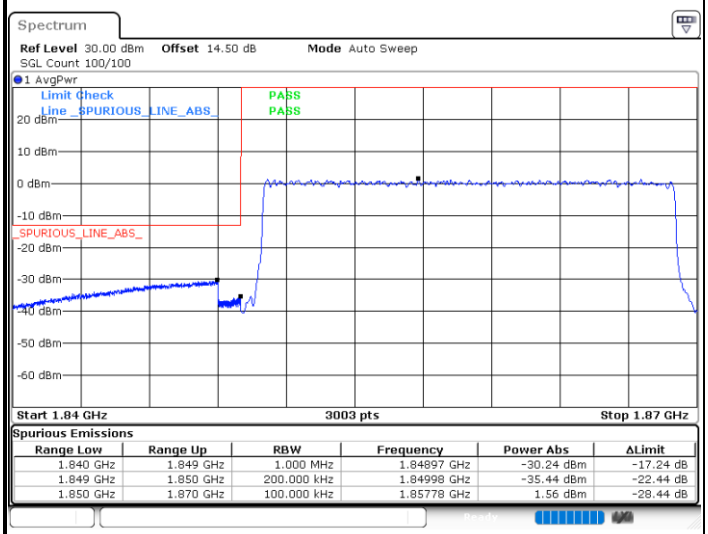
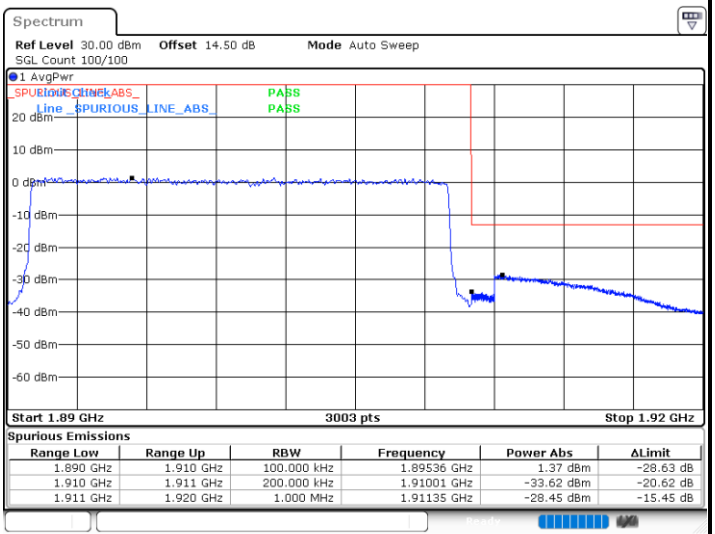
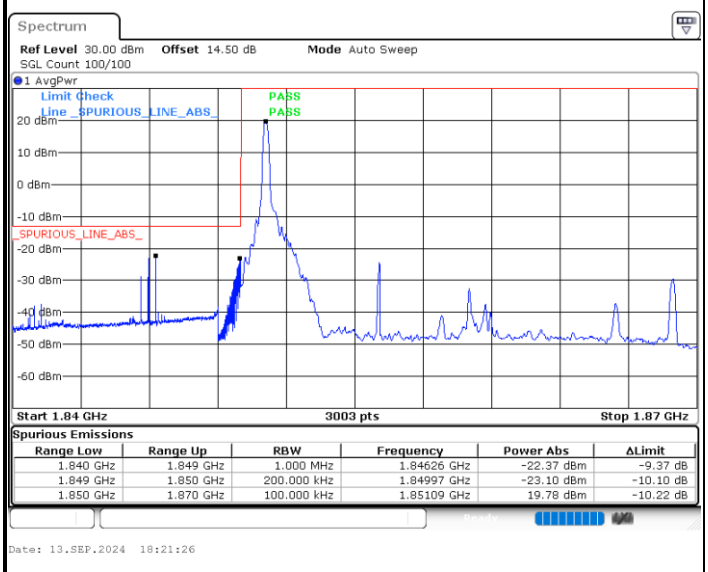
LTE Band 2 / 20MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84626 GHz	-22.37 dBm	-9.37 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84997 GHz	-23.10 dBm	-10.10 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	19.78 dBm	-10.22 dB

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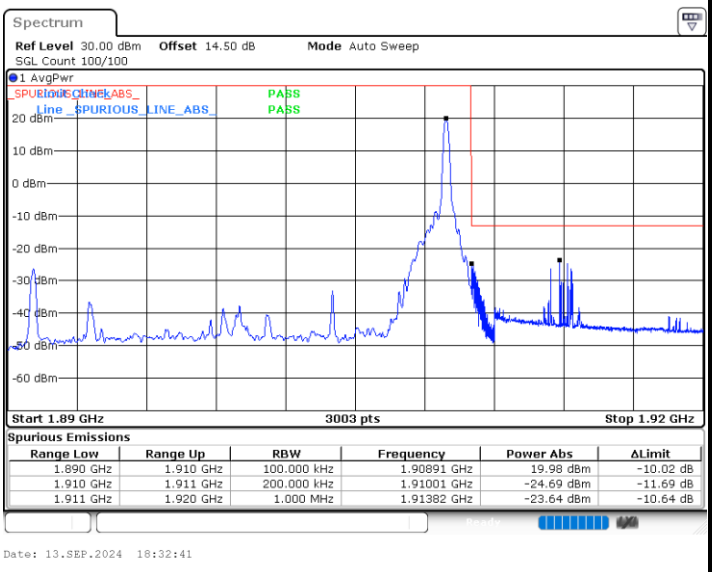
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90891 GHz	19.98 dBm	-10.02 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-24.69 dBm	-11.69 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91382 GHz	-23.64 dBm	-10.64 dB

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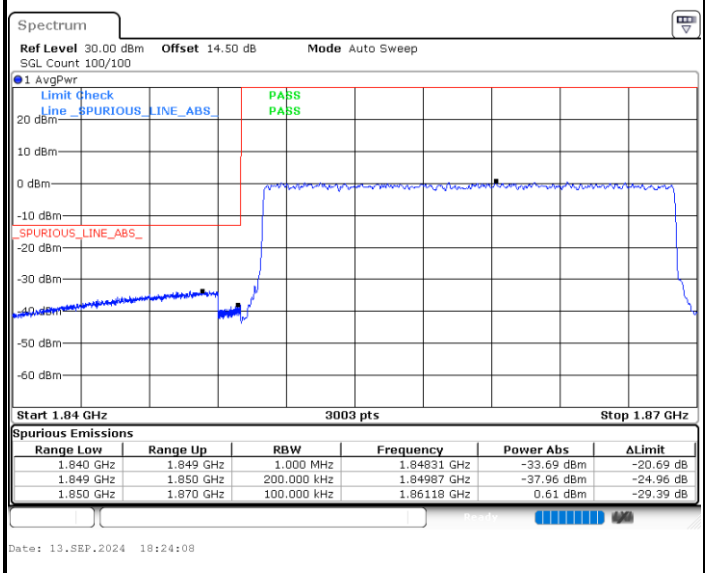
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84831 GHz	-33.69 dBm	-20.69 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84987 GHz	-37.96 dBm	-24.96 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86118 GHz	0.61 dBm	-29.39 dB

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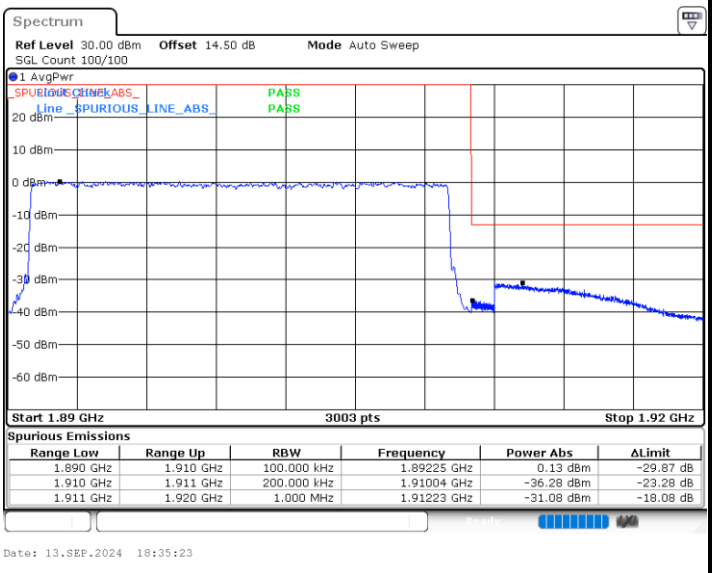
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89225 GHz	0.13 dBm	-29.87 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91004 GHz	-36.28 dBm	-23.28 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91223 GHz	-31.08 dBm	-18.08 dB

Date: 13.SEP.2024 18:35:23