FCC RADIO TEST REPORT

FCC ID	:	**A4RGBC0H**
Equipment	:	**Phone**
Model Name	:	**GBC0H**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC 47 CFR Part 2, Part 90(R), Part 90(S)**

The product was received on Nov. 14, 2025 and testing was performed from Dec. 04, 2025 to May 27, 2026. 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 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 from 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 333, Taiwan (R.O.C.)

Table of Contents

History of this test report **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Location 6
1.4 Applicable Standards 6
2 Test Configuration of Equipment Under Test **7**
2.1 Test Mode 7
2.2 Connection Diagram of Test System 9
2.3 Support Unit used in test configuration and system 9
2.4 Measurement Results Explanation Example 9
2.5 Frequency List of Low/Middle/High Channels 10
3 Conducted Test Items **11**
3.1 Measuring Instruments 11
3.2 Conducted Output Power and ERP 12
3.3 Peak-to-Average Ratio 27
3.4 Occupied Bandwidth 28
3.5 Conducted Band Edge 29
3.6 Emission Mask 30
3.7 Conducted Spurious Emission 32
3.8 Frequency Stability 33
4 Radiated Test Items **34**
4.1 Measuring Instruments 34
4.2 Radiated Spurious Emission Measurement 36
5 List of Measuring Equipment **38**
6 Measurement Uncertainty **40**
Appendix A. Test Results of Conducted Test
Appendix B. Test Results of Radiated Test
Appendix C. Test Setup Photographs

Appendix A Conducted Test Result Page No. Information								
LTE Band	Appendix	PAR	26dB BW	OBW	CBE	Mask	CSE	FS
14	A14	A14-1	A14-3	A14-4	A14-5	A14-7	A14-11	A14-13
26_90S	A26L	A26L-1	A26L-2	A26L-4	N/A	A26L-6	A26L-9	A26L-14
26_90S Straddle	A26S	A26S-1	A26S-2	A26S-4	N/A	N/A	A26S-6	A26S-8

History of this test report

Report No.	Version	Description	Issue Date
FG5N0803-01M	01	Initial issue of report	Apr. 17, 2026
FG5N0803-01M	02	Add PAR Full Bandwidth test data.	May 27, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5) §90.635	Effective Radiated Power (Band 26)	Pass	
	§90.542 (a)(7)	Effective Radiated Power (Band 14)		
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §22.917 (a)	Conducted Band Edge Measurement (Band 26)	Pass	-
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (Band 14)		
3.6	§2.1051 §90.210 (n)	Emission Mask (Band 14)	Pass	-
	§2.1051 §90.691	Emission masks (Band 26)		
3.7	§2.1051 §22.917 (a)§90.691	Conducted Spurious Emission (Band 26)	Pass	-
	§2.1051 §90.543 (e)(3)	Conducted Spurious Emission (Band 14)		
3.8	§2.1055 §22.355 §90.539 (e) §90.691	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §22.917 (a)§90.691	Radiated Spurious Emission (Band 26)	Pass	-
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (Band 14)		

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.

Reviewed by: William Chen

Report Producer: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx. **Antenna Type** WWAN: **<Ant. 0>:** IFA Antenna **<Ant. 1>:** IFA Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	**Performed Test Item**
5B171FDDV00005	Conducted Measurement ERP/EIRP
5B301FDDV0004V 61031FDDV000B2	Radiated Spurious Emission

Support band and evaluated information	
Supported band	B14, B26
Evaluated and Tested band	B14, B26

Antenna information						
Band	**Ant0**	**Ant1**			**Main Ant. #**	**Sub Ant. #**
B14	-2.8	-5.7			0	1
B26	-2.7	-5.1			0	1

Remark:
1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant 0 for Low band and main antenna Ant 2 for Mid/high band are selected as the worst mode to be reported for conducted test.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 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.**
	03CH07-HY
Test Engineer	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (℃)	19.7~22.6
Relative Humidity (%)	46.6~66.3

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.**
	TH05-HY (TAF Code: 3786)
Test Engineer	Wei Shun Hung
Temperature (℃)	22.3~22.9
Relative Humidity (%)	53.2~55.5
Remark	The Conducted 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 TW3786

1.4 Applicable Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R), Part 90(S)
- 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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find worst plane as below.

Plane	Main Antenna	Sub Antenna
B14	Y with adapter	X with adapter
B26 (90S)	Y with adapter	X with adapter

Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

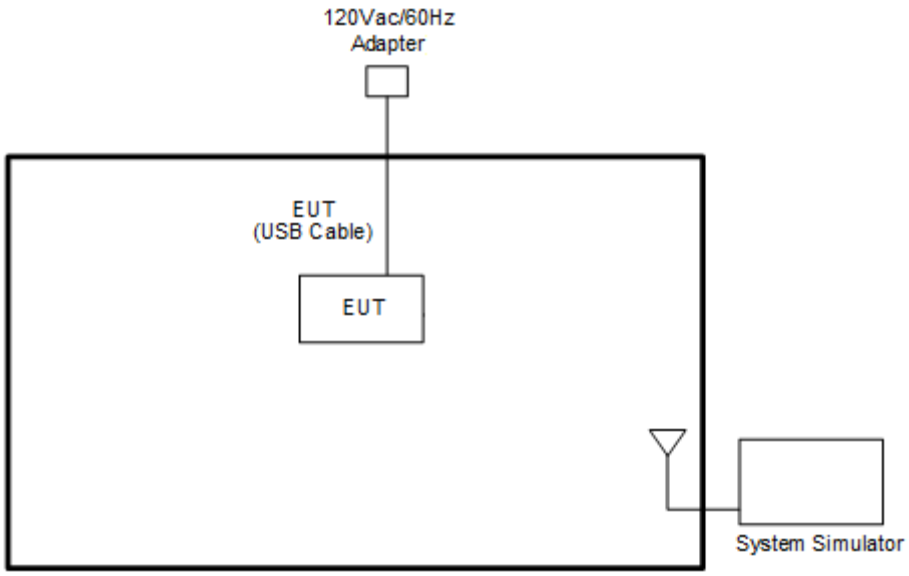
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	All	Full	M
Bandwidth	A, B, C, D	All	Full	M
CBE, Mask (Part 90)	A, B, C, D	Minimum	1RB	L, M, H
		All	Full	
CSE	A	Minimum	1RB	L, M, H
Frequency Stability	A	10MHz/15MHz (B26)	Full	L, M
		10 MHz or less (other)		
RSE	A	5MHz/15MHz (B26)	1RB	L, M, H
		10 MHz or less (other)		

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.

2.2 Connection Diagram of Test System

<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	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	AC Adapter	N/A	GW8L7	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 4.2 dB and 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3
LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	**Channel/Frequency(MHz)**	**cross-rule channels**		
15	Channel	26765	26790	-
	Frequency	821.5	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-

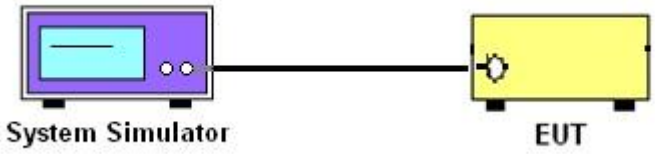
3 Conducted Test Items

3.1 Measuring Instruments

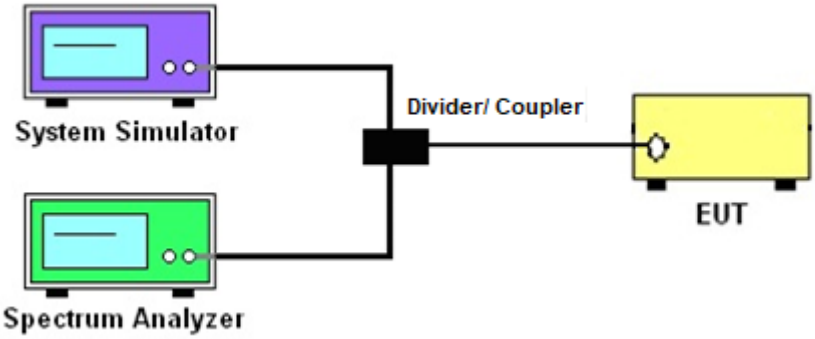
See list of measuring instruments of this test report.

3.1.1 Test Setup

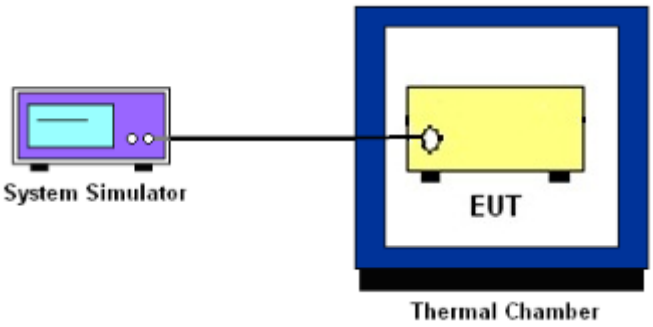
3.1.2 Conducted Output Power



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

3.2.1 Description of the Conducted Output Power Measurement and ERP 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 26 (Part 22H)

The conducted power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14

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.

3.2.3 Test Result of the Conducted Output Power and ERP/EIRP Measurement

<LTE B14 TX0 ANT2>

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -2.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	24.61	-	19.66	0.0925
10	1	25		-	24.49	-		
10	1	49		-	24.55	-		
10	25	0		-	23.50	-		
10	25	12		-	23.41	-		
10	25	25		-	23.46	-		
10	50	0		-	23.44	-		
10	1	0	16-QAM	-	23.80	-	18.85	0.0767
10	1	25		-	23.72	-		
10	1	49		-	23.73	-		
10	1	0	64-QAM	-	22.66	-	17.71	0.0590
10	1	25		-	22.59	-		
10	1	49		-	22.64	-		
10	1	0	256-QAM	-	19.68	-	14.73	0.0297
10	1	25		-	19.58	-		
10	1	49		-	19.58	-		
5	1	0	QPSK	24.53	24.49	24.53	19.58	0.0908
5	1	12		24.42	24.49	24.47		
5	1	24		24.53	24.51	24.52		
5	12	0		23.44	23.44	23.41		
5	12	7		23.32	23.36	23.31		
5	12	13		23.38	23.38	23.37		
5	25	0		23.44	23.47	23.45		
5	1	0	16-QAM	23.81	23.78	23.86	18.91	0.0778
5	1	12		23.64	23.74	23.73		
5	1	24		23.78	23.81	23.81		
5	1	0	64-QAM	22.69	22.62	22.64	17.74	0.0594
5	1	12		22.55	22.66	22.55		
5	1	24		22.68	22.62	22.63		
5	1	0	256-QAM	19.63	19.58	19.59	14.68	0.0294
5	1	12		19.53	19.58	19.46		
5	1	24		19.62	19.48	19.60		
Limit	ERP < 3W			Result			Pass	

<LTE B14 TX1 ANT0>

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -5.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	24.17	-	16.32	0.0429
10	1	25		-	24.05	-		
10	1	49		-	24.16	-		
10	25	0		-	23.15	-		
10	25	12		-	23.07	-		
10	25	25		-	23.15	-		
10	50	0		-	23.09	-		
10	1	0	16-QAM	-	23.37	-	15.70	0.0372
10	1	25		-	23.27	-		
10	1	49		-	23.55	-		
10	1	0	64-QAM	-	22.25	-	14.49	0.0281
10	1	25		-	22.15	-		
10	1	49		-	22.34	-		
10	1	0	256-QAM	-	19.25	-	11.43	0.0139
10	1	25		-	19.19	-		
10	1	49		-	19.28	-		
5	1	0	QPSK	24.05	24.09	24.10	16.36	0.0433
5	1	12		24.05	24.04	24.14		
5	1	24		24.05	24.17	24.21		
5	12	0		23.05	23.05	23.07		
5	12	7		22.97	22.94	23.03		
5	12	13		22.98	23.03	23.11		
5	25	0		23.08	23.07	23.11		
5	1	0	16-QAM	23.27	23.33	23.37	15.58	0.0361
5	1	12		23.24	23.27	23.43		
5	1	24		23.26	23.40	23.43		
5	1	0	64-QAM	22.16	22.23	22.20	14.51	0.0282
5	1	12		22.17	22.20	22.25		
5	1	24		22.15	22.36	22.27		
5	1	0	256-QAM	19.19	19.25	19.23	11.43	0.0139
5	1	12		19.20	19.19	19.25		
5	1	24		19.26	19.25	19.28		
Limit	ERP < 3W			Result			Pass	

<LTE B26 TX0 ANT0>

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	24.58	-	-	19.73	0.0940
15	1	37		24.44	-	-		
15	1	74		24.47	-	-		
15	36	0		23.41	-	-		
15	36	20		23.34	-	-		
15	36	39		23.33	-	-		
15	75	0		23.36	-	-		
15	1	0	16-QAM	23.73	-	-	18.93	0.0782
15	1	37		23.69	-	-		
15	1	74		23.78	-	-		
15	1	0	64-QAM	22.60	-	-	17.75	0.0596
15	1	37		22.54	-	-		
15	1	74		22.59	-	-		
15	1	0	256-QAM	19.60	-	-	14.75	0.0299
15	1	37		19.45	-	-		
15	1	74		19.52	-	-		
10	1	0	QPSK	-	24.30	-	19.52	0.0895
10	1	25		-	24.19	-		
10	1	49		-	24.37	-		
10	25	0		-	23.22	-		
10	25	12		-	23.19	-		
10	25	25		-	23.25	-		
10	50	0		-	23.19	-		
10	1	0	16-QAM	-	23.53	-	18.71	0.0743
10	1	25		-	23.40	-		
10	1	49		-	23.56	-		
10	1	0	64-QAM	-	22.39	-	17.61	0.0577
10	1	25		-	22.31	-		
10	1	49		-	22.46	-		
10	1	0	256-QAM	-	19.44	-	14.61	0.0289
10	1	25		-	19.41	-		
10	1	49		-	19.46	-		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.31	24.35	24.35	19.51	0.0893
5	1	12		24.26	24.27	24.36		
5	1	24		24.27	24.33	24.21		
5	12	0		23.25	23.29	23.35		
5	12	7		23.16	23.12	23.22		
5	12	13		23.21	23.22	23.22		
5	25	0		23.28	23.20	23.38		
5	1	0	16-QAM	23.54	23.62	23.62	18.77	0.0753
5	1	12		23.44	23.47	23.37		
5	1	24		23.51	23.57	23.61		
5	1	0	64-QAM	22.44	22.46	22.40	17.61	0.0577
5	1	12		22.36	22.36	22.33		
5	1	24		22.43	22.37	22.33		
5	1	0	256-QAM	19.43	19.48	19.45	14.63	0.0290
5	1	12		19.31	19.21	19.26		
5	1	24		19.41	19.48	19.44		
3	1	0	QPSK	24.25	24.23	24.20	19.41	0.0873
3	1	8		24.16	24.14	24.26		
3	1	14		24.26	24.24	24.22		
3	8	0		23.22	23.16	23.24		
3	8	4		23.17	23.24	23.13		
3	8	7		23.19	23.29	23.15		
3	15	0		23.20	23.22	23.16		
3	1	0	16-QAM	23.49	23.59	23.41	18.74	0.0748
3	1	8		23.45	23.35	23.51		
3	1	14		23.42	23.44	23.47		
3	1	0	64-QAM	22.34	22.24	22.26	17.56	0.0570
3	1	8		22.27	22.30	22.31		
3	1	14		22.34	22.32	22.41		
3	1	0	256-QAM	19.43	19.50	19.42	14.65	0.0292
3	1	8		19.40	19.36	19.36		
3	1	14		19.36	19.40	19.28		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.25	24.24	24.29	19.44	0.0879
1.4	1	3		24.24	24.16	24.26		
1.4	1	5		24.22	24.25	24.26		
1.4	3	0		24.14	24.05	24.24		
1.4	3	1		24.11	24.21	24.19		
1.4	3	3		24.17	24.09	24.07		
1.4	6	0		23.14	23.08	23.16		
1.4	1	0	16-QAM	23.41	23.40	23.41	18.60	0.0724
1.4	1	3		23.36	23.30	23.45		
1.4	1	5		23.41	23.35	23.34		
1.4	1	0	64-QAM	22.33	22.28	22.24	17.58	0.0573
1.4	1	3		22.34	22.36	22.34		
1.4	1	5		22.36	22.43	22.28		
1.4	1	0	256-QAM	19.32	19.35	19.34	14.57	0.0286
1.4	1	3		19.31	19.41	19.25		
1.4	1	5		19.34	19.37	19.31		
Limit	ERP < 100W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	-	24.68	-	19.83	0.0962
15	1	37		-	24.50	-		
15	1	74		-	24.42	-		
15	36	0		-	23.41	-		
15	36	20		-	23.43	-		
15	36	39		-	23.32	-		
15	75	0		-	23.43	-		
15	1	0	16-QAM	-	23.75	-	19.00	0.0794
15	1	37		-	23.77	-		
15	1	74		-	23.85	-		
15	1	0	64-QAM	-	22.60	-	17.75	0.0596
15	1	37		-	22.49	-		
15	1	74		-	22.59	-		
15	1	0	256-QAM	-	19.62	-	14.77	0.0300
15	1	37		-	19.45	-		
15	1	74		-	19.55	-		
10	1	0	QPSK	-	24.31	-	19.53	0.0897
10	1	25		-	24.18	-		
10	1	49		-	24.38	-		
10	25	0		-	23.33	-		
10	25	12		-	23.26	-		
10	25	25		-	23.36	-		
10	50	0		-	23.23	-		
10	1	0	16-QAM	-	23.66	-	18.81	0.0760
10	1	25		-	23.45	-		
10	1	49		-	23.49	-		
10	1	0	64-QAM	-	22.47	-	17.69	0.0587
10	1	25		-	22.31	-		
10	1	49		-	22.54	-		
10	1	0	256-QAM	-	19.46	-	14.61	0.0289
10	1	25		-	19.40	-		
10	1	49		-	19.46	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	-	24.34	-	19.49	0.0889
5	1	12		-	24.20	-		
5	1	24		-	24.31	-		
5	12	0		-	23.35	-		
5	12	7		-	23.19	-		
5	12	13		-	23.30	-		
5	25	0		-	23.33	-		
5	1	0	16-QAM	-	23.64	-	18.79	0.0757
5	1	12		-	23.39	-		
5	1	24		-	23.55	-		
5	1	0	64-QAM	-	22.43	-	17.65	0.0582
5	1	12		-	22.32	-		
5	1	24		-	22.50	-		
5	1	0	256-QAM	-	19.34	-	14.57	0.0286
5	1	12		-	19.36	-		
5	1	24		-	19.37	-		
3	1	0	QPSK	-	24.25	-	19.40	0.0871
3	1	8		-	24.16	-		
3	1	14		-	24.17	-		
3	8	0		-	23.22	-		
3	8	4		-	23.26	-		
3	8	7		-	23.23	-		
3	15	0		-	23.24	-		
3	1	0	16-QAM	-	23.54	-	18.69	0.0740
3	1	8		-	23.51	-		
3	1	14		-	23.52	-		
3	1	0	64-QAM	-	22.33	-	17.52	0.0565
3	1	8		-	22.18	-		
3	1	14		-	22.37	-		
3	1	0	256-QAM	-	19.38	-	14.61	0.0289
3	1	8		-	19.33	-		
3	1	14		-	19.46	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	-	24.18	-	19.49	0.0889
1.4	1	3		-	24.34	-		
1.4	1	5		-	24.16	-		
1.4	3	0		-	24.12	-		
1.4	3	1		-	24.01	-		
1.4	3	3		-	24.25	-		
1.4	6	0		-	23.15	-		
1.4	1	0	16-QAM	-	23.49	-	18.64	0.0731
1.4	1	3		-	23.46	-		
1.4	1	5		-	23.45	-		
1.4	1	0	64-QAM	-	22.41	-	17.56	0.0570
1.4	1	3		-	22.28	-		
1.4	1	5		-	22.31	-		
1.4	1	0	256-QAM	-	19.30	-	14.56	0.0286
1.4	1	3		-	19.29	-		
1.4	1	5		-	19.26	-		
Limit	ERP < 7W			Result			Pass	

<LTE B26 TX1 ANT1>

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.97	-	-	16.82	0.0481
15	1	37		23.94	-	-		
15	1	74		24.07	-	-		
15	36	0		22.87	-	-		
15	36	20		22.87	-	-		
15	36	39		22.95	-	-		
15	75	0		22.92	-	-		
15	1	0	16-QAM	23.25	-	-	16.09	0.0406
15	1	37		23.14	-	-		
15	1	74		23.34	-	-		
15	1	0	64-QAM	22.09	-	-	14.94	0.0312
15	1	37		22.07	-	-		
15	1	74		22.19	-	-		
15	1	0	256-QAM	19.10	-	-	11.94	0.0156
15	1	37		19.02	-	-		
15	1	74		19.19	-	-		
10	1	0	QPSK	-	24.07	-	16.89	0.0489
10	1	25		-	23.96	-		
10	1	49		-	24.14	-		
10	25	0		-	22.97	-		
10	25	12		-	22.97	-		
10	25	25		-	23.06	-		
10	50	0		-	22.98	-		
10	1	0	16-QAM	-	23.32	-	16.07	0.0405
10	1	25		-	23.15	-		
10	1	49		-	23.27	-		
10	1	0	64-QAM	-	22.16	-	14.93	0.0311
10	1	25		-	22.05	-		
10	1	49		-	22.18	-		
10	1	0	256-QAM	-	19.24	-	12.06	0.0161
10	1	25		-	19.29	-		
10	1	49		-	19.31	-		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.02	24.08	24.12	16.87	0.0486
5	1	12		23.97	24.00	23.94		
5	1	24		24.05	24.12	23.99		
5	12	0		22.98	23.04	23.04		
5	12	7		22.91	22.91	22.89		
5	12	13		23.01	23.02	23.11		
5	25	0		22.96	22.99	23.06		
5	1	0	16-QAM	23.28	23.21	23.27	16.14	0.0411
5	1	12		23.15	23.09	23.25		
5	1	24		23.39	23.31	23.35		
5	1	0	64-QAM	22.17	22.24	22.12	15.06	0.0321
5	1	12		22.16	22.13	22.17		
5	1	24		22.23	22.31	22.24		
5	1	0	256-QAM	19.30	19.29	19.36	12.11	0.0163
5	1	12		19.17	19.13	19.23		
5	1	24		19.26	19.18	19.17		
3	1	0	QPSK	23.72	23.72	23.79	16.59	0.0456
3	1	8		23.72	23.66	23.74		
3	1	14		23.84	23.82	23.84		
3	8	0		22.72	22.82	22.73		
3	8	4		22.70	22.70	22.69		
3	8	7		22.75	22.77	22.73		
3	15	0		22.74	22.67	22.74		
3	1	0	16-QAM	22.92	22.91	22.91	15.88	0.0387
3	1	8		22.92	22.89	22.82		
3	1	14		23.08	23.01	23.13		
3	1	0	64-QAM	21.73	21.68	21.63	14.68	0.0294
3	1	8		21.81	21.87	21.83		
3	1	14		21.93	21.88	21.89		
3	1	0	256-QAM	18.98	18.95	19.04	11.87	0.0154
3	1	8		18.96	19.04	19.01		
3	1	14		19.04	19.12	19.06		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.01	23.95	23.91	16.84	0.0483
1.4	1	3		23.95	24.02	23.87		
1.4	1	5		24.03	24.09	23.96		
1.4	3	0		23.87	23.88	23.78		
1.4	3	1		23.84	23.91	23.89		
1.4	3	3		23.86	23.78	23.90		
1.4	6	0		22.90	22.88	22.88		
1.4	1	0	16-QAM	23.17	23.16	23.12	16.12	0.0409
1.4	1	3		23.16	23.26	23.22		
1.4	1	5		23.30	23.37	23.33		
1.4	1	0	64-QAM	22.14	22.13	22.24	14.99	0.0316
1.4	1	3		22.10	22.04	22.05		
1.4	1	5		22.18	22.16	22.23		
1.4	1	0	256-QAM	19.22	19.22	19.25	12.00	0.0158
1.4	1	3		19.16	19.18	19.08		
1.4	1	5		19.17	19.14	19.24		
Limit	ERP < 100W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	-	23.94	-	16.82	0.0481
15	1	37		-	23.89	-		
15	1	74		-	24.07	-		
15	36	0		-	22.97	-		
15	36	20		-	22.92	-		
15	36	39		-	22.95	-		
15	75	0		-	23.02	-		
15	1	0	16-QAM	-	23.31	-	16.18	0.0415
15	1	37		-	23.09	-		
15	1	74		-	23.43	-		
15	1	0	64-QAM	-	22.13	-	14.89	0.0308
15	1	37		-	22.14	-		
15	1	74		-	22.13	-		
15	1	0	256-QAM	-	19.03	-	12.03	0.0160
15	1	37		-	19.12	-		
15	1	74		-	19.28	-		
10	1	0	QPSK	-	23.89	-	16.83	0.0482
10	1	25		-	23.91	-		
10	1	49		-	24.08	-		
10	25	0		-	22.94	-		
10	25	12		-	22.77	-		
10	25	25		-	22.88	-		
10	50	0		-	22.89	-		
10	1	0	16-QAM	-	23.10	-	16.01	0.0399
10	1	25		-	23.01	-		
10	1	49		-	23.26	-		
10	1	0	64-QAM	-	21.85	-	14.85	0.0305
10	1	25		-	21.96	-		
10	1	49		-	22.10	-		
10	1	0	256-QAM	-	19.01	-	11.88	0.0154
10	1	25		-	18.98	-		
10	1	49		-	19.13	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	-	24.00	-	16.77	0.0475
5	1	12		-	23.98	-		
5	1	24		-	24.02	-		
5	12	0		-	22.95	-		
5	12	7		-	22.83	-		
5	12	13		-	22.95	-		
5	25	0		-	22.96	-		
5	1	0	16-QAM	-	23.18	-	16.05	0.0403
5	1	12		-	23.17	-		
5	1	24		-	23.30	-		
5	1	0	64-QAM	-	22.15	-	14.97	0.0314
5	1	12		-	22.11	-		
5	1	24		-	22.22	-		
5	1	0	256-QAM	-	19.34	-	12.09	0.0162
5	1	12		-	19.23	-		
5	1	24		-	19.17	-		
3	1	0	QPSK	-	23.67	-	16.58	0.0455
3	1	8		-	23.73	-		
3	1	14		-	23.83	-		
3	8	0		-	22.72	-		
3	8	4		-	22.68	-		
3	8	7		-	22.75	-		
3	15	0		-	22.81	-		
3	1	0	16-QAM	-	23.00	-	15.85	0.0385
3	1	8		-	22.99	-		
3	1	14		-	23.10	-		
3	1	0	64-QAM	-	21.68	-	14.75	0.0299
3	1	8		-	21.88	-		
3	1	14		-	22.00	-		
3	1	0	256-QAM	-	18.99	-	11.79	0.0151
3	1	8		-	18.86	-		
3	1	14		-	19.04	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -5.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	-	24.06	-	16.81	0.0480
1.4	1	3		-	23.89	-		
1.4	1	5		-	24.01	-		
1.4	3	0		-	23.79	-		
1.4	3	1		-	23.88	-		
1.4	3	3		-	23.77	-		
1.4	6	0		-	22.83	-		
1.4	1	0	16-QAM	-	23.11	-	16.07	0.0405
1.4	1	3		-	23.13	-		
1.4	1	5		-	23.32	-		
1.4	1	0	64-QAM	-	22.20	-	15.03	0.0318
1.4	1	3		-	22.01	-		
1.4	1	5		-	22.28	-		
1.4	1	0	256-QAM	-	19.20	-	12.01	0.0159
1.4	1	3		-	19.26	-		
1.4	1	5		-	19.22	-		
Limit	ERP < 7W			Result			Pass	

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 + 10log10(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.

90.543(e)

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

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 >= 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.

3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

For LTE Band 14

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

For LTE Band 26

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.6.2 Test Procedures

For LTE Band 14

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For LTE Band 26

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

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

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

3.7.2 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 conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GH, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.8 Frequency Stability

3.8.1 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 ±0.00025% (±2.5ppm) of the center frequency.

90.593

Transmitters designed to operate in 769-775 MHz and 799-805 MHz frequency bands must meet the frequency stability requirements in this section.

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station.

3.8.2 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.

3.8.3 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±5° 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.

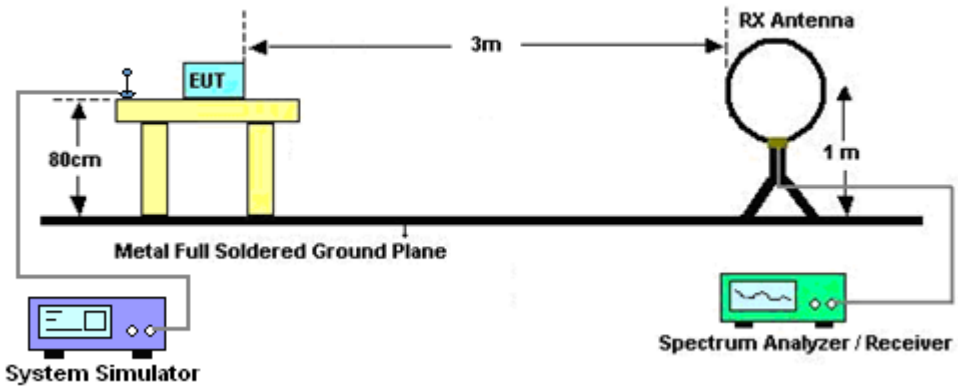
4 Radiated Test Items

4.1 Measuring Instruments

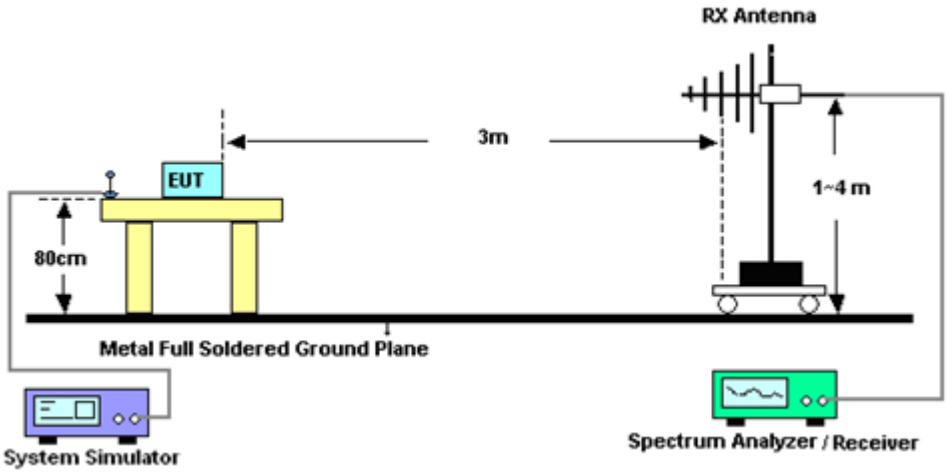
See list of measuring instruments of this test report.

4.1.1 Test Setup

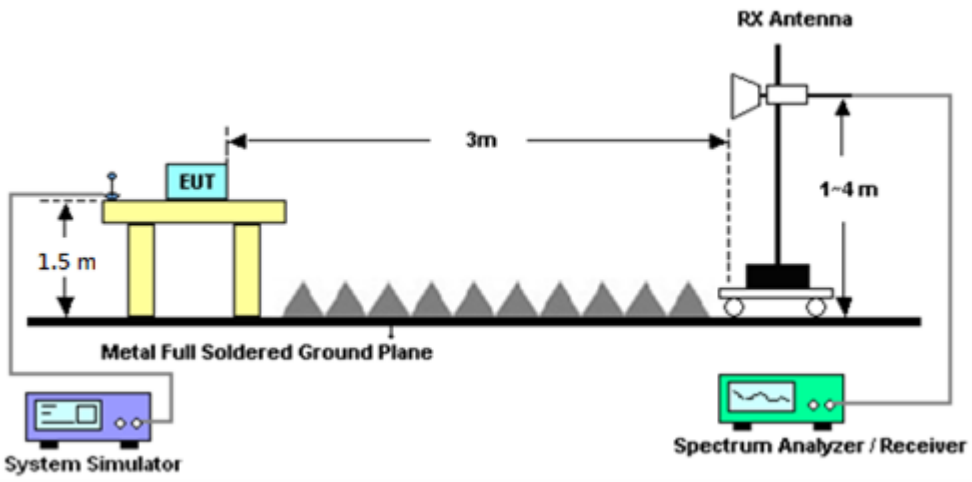
For radiated test below 30MHz



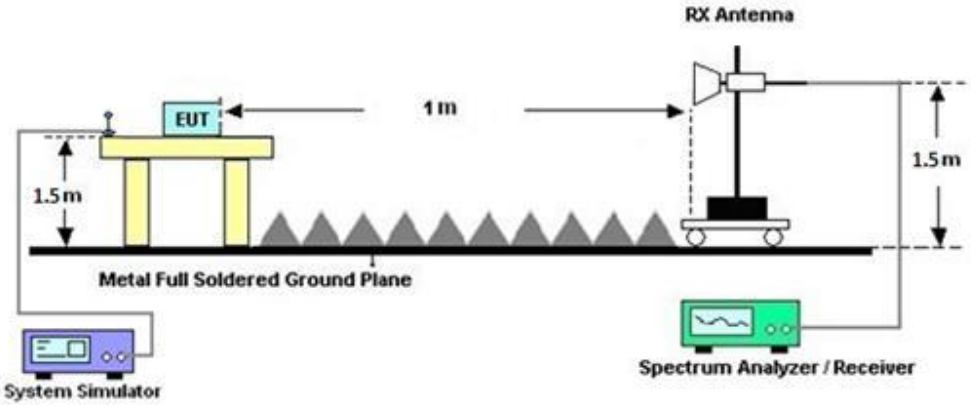
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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 adequate comparison measurement 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 C63.26-2015. 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 14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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.

1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
6. EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Dec. 09, 2025~ Feb. 07, 2026	Apr. 20, 2026	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Dec. 09, 2025~ Feb. 07, 2026	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 18, 2025	Dec. 09, 2025~ Feb. 07, 2026	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 08, 2025	Dec. 09, 2025~ Feb. 07, 2026	Aug. 07, 2026	Radiation (03CH07-HY)
Signal Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Dec. 09, 2025~ Feb. 07, 2026	Mar. 27, 2026	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgre n	3117	00075962	1GHz ~ 18GHz	Dec. 09, 2025	Dec. 09, 2025~ Feb. 07, 2026	Dec. 08, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Dec. 09, 2025~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Dec. 09, 2025~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Dec. 09, 2025~ Feb. 07, 2026	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Dec. 09, 2025~ Feb. 07, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Dec. 09, 2025~ Feb. 07, 2026	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Dec. 09, 2025~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Dec. 09, 2025~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	MF	MF-7802	N/A	Control Turn table	N/A	Dec. 09, 2025~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 09, 2025~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
Software	Audix	E3	RK-002396	N/A	N/A	Dec. 09, 2025~ Feb. 07, 2026	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Dec. 09, 2025~ Feb. 07, 2026	Feb. 23, 2026	Radiation (03CH07-HY)
Horn Antenna	SCHWARZB ECK	BBHA9170	00991	18GHz-40GHz	May. 29, 2025	Dec. 09, 2025~ Feb. 07, 2026	May. 28, 2026	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Dec. 04, 2025~ Feb. 11, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Dec. 04, 2025~ Feb. 11, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18G Hz	Oct. 16, 2025	Dec. 04, 2025~ Feb. 11, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Dec. 04, 2025~ Feb. 11, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May. 12, 2025	Dec. 04, 2025~ Feb. 22, 2026	May. 11, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Feb. 23, 2026	Feb. 23, 2025~ May. 27, 2026	Feb. 22, 2027	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Dec. 04, 2025~ Feb. 11, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Dec. 04, 2025~ Feb. 11, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03,2025	Dec. 04, 2025~ Feb. 11, 2026	Mar. 02,2026	Conducted (TH05-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

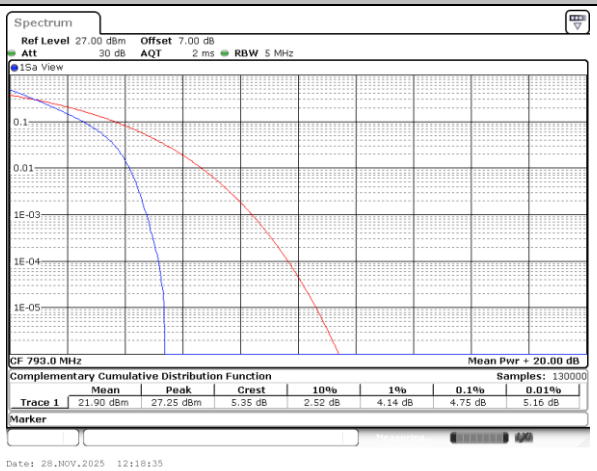
LTE Band 14

Peak-to-Average Ratio

Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.75	5.30	6.03	6.41	PASS
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.43	5.39	6.03	6.55	PASS

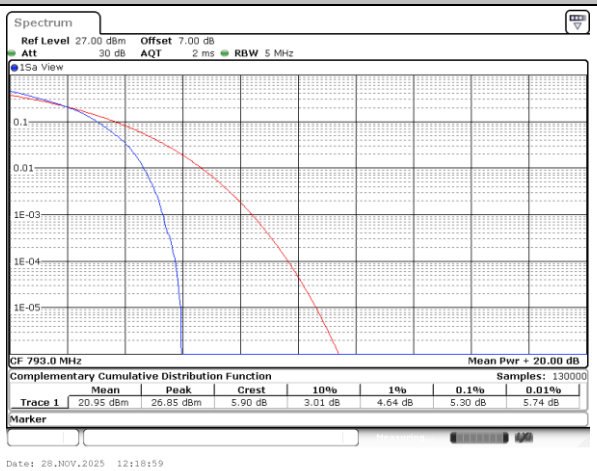
LTE Band 14 / 5MHz / QPSK

Middle Channel / Full RB



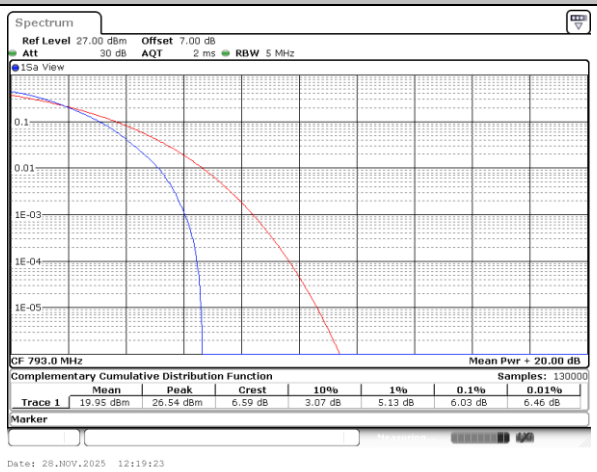
LTE Band 14 / 5MHz / 16QAM

Middle Channel / Full RB



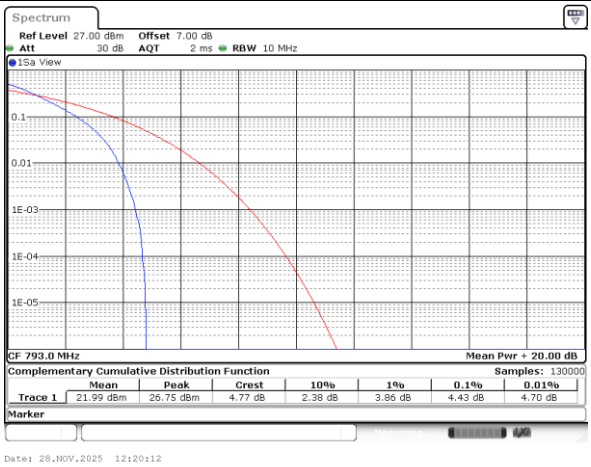
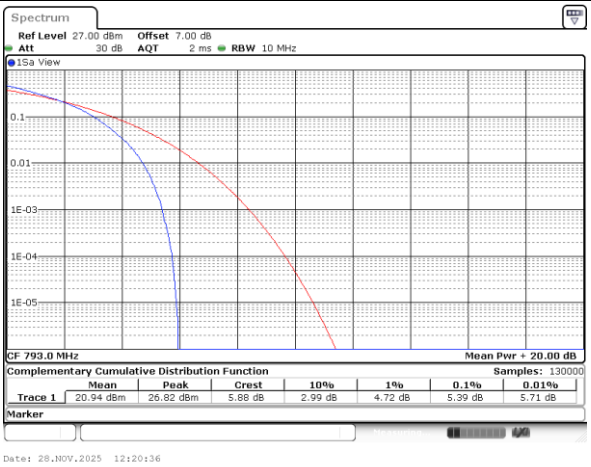
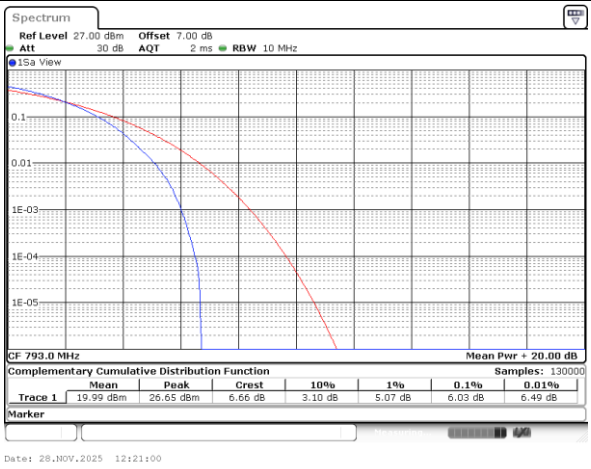
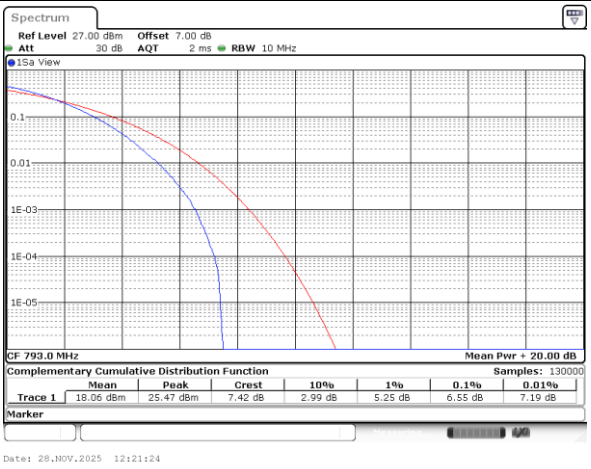
LTE Band 14 / 5MHz / 64QAM

Middle Channel / Full RB



LTE Band 14 / 5MHz / 256QAM

Middle Channel / Full RB

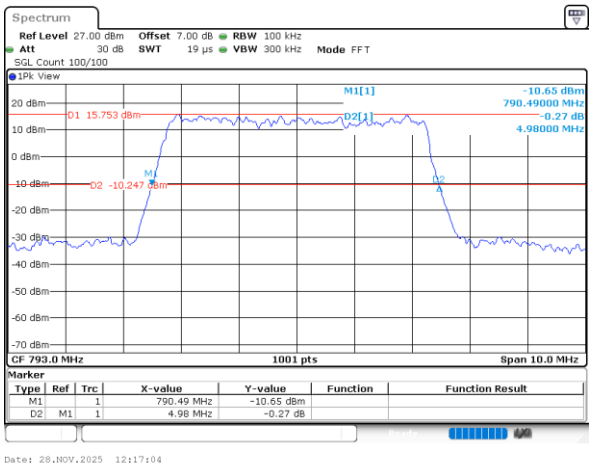
LTE Band 14 / 10MHz / QPSK	LTE Band 14 / 10MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 14 / 10MHz / 64QAM	**LTE Band 14 / 10MHz / 256QAM**
Middle Channel / Full RB	**Middle Channel / Full RB**
	

26dB Bandwidth

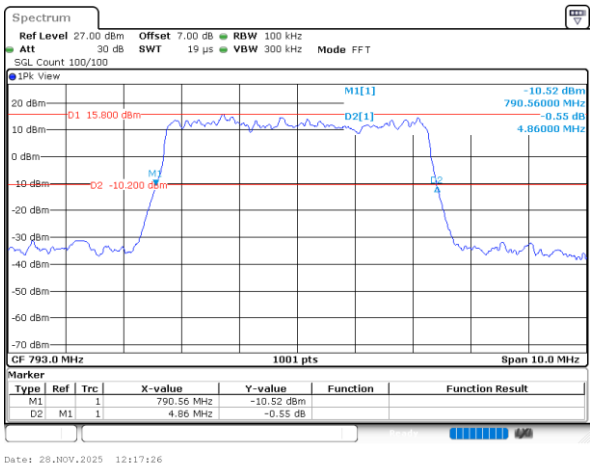
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.98	4.86	9.84	10.00	-	-	-	-

LTE Band 14

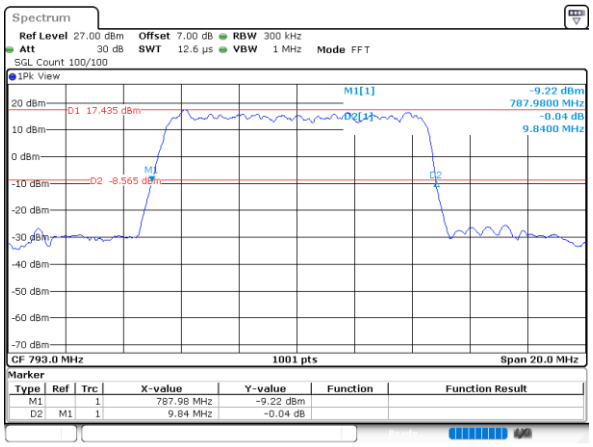
Middle Channel / 5MHz / QPSK



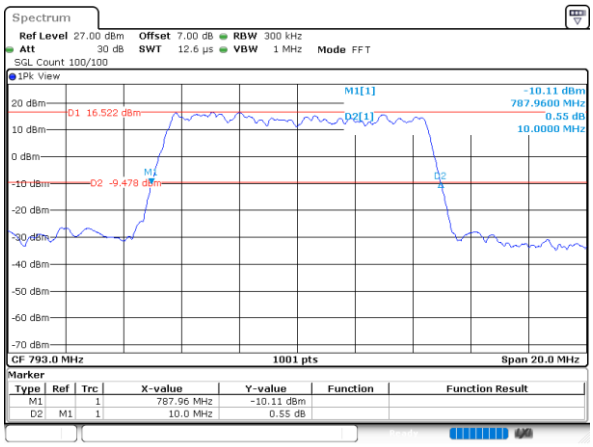
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

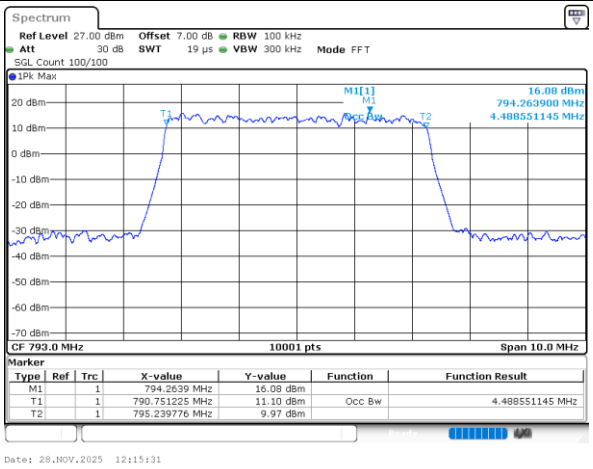


Occupied Bandwidth

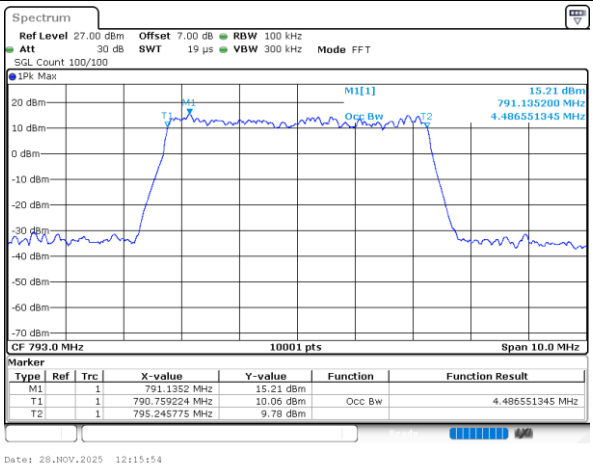
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.48	9.06	9.04	-	-	-	-

LTE Band 14

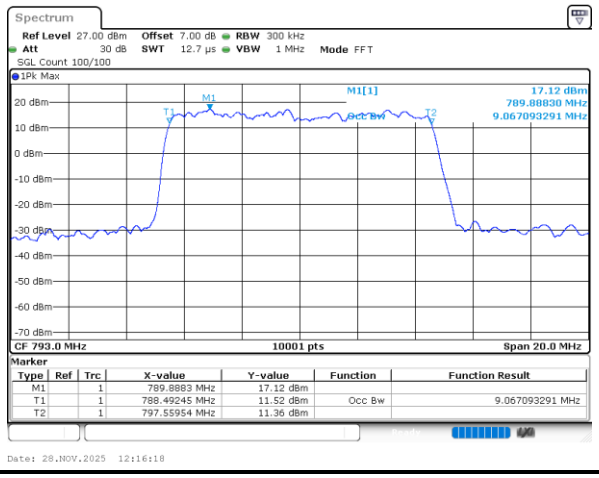
Middle Channel / 5MHz / QPSK



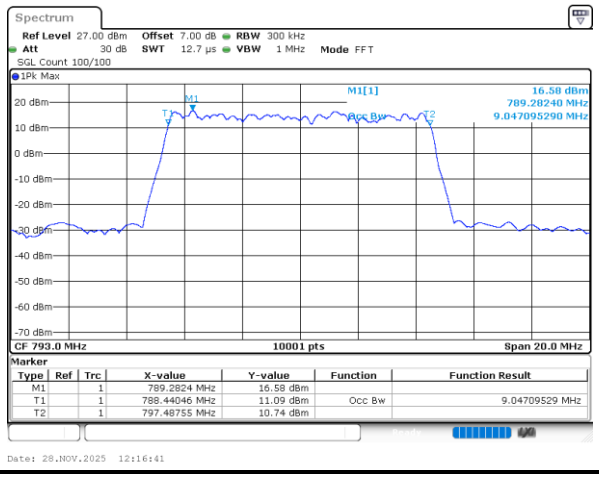
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



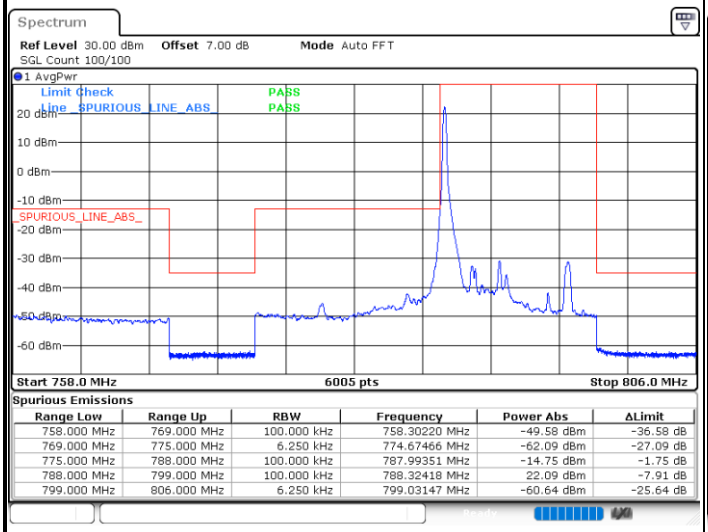
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB

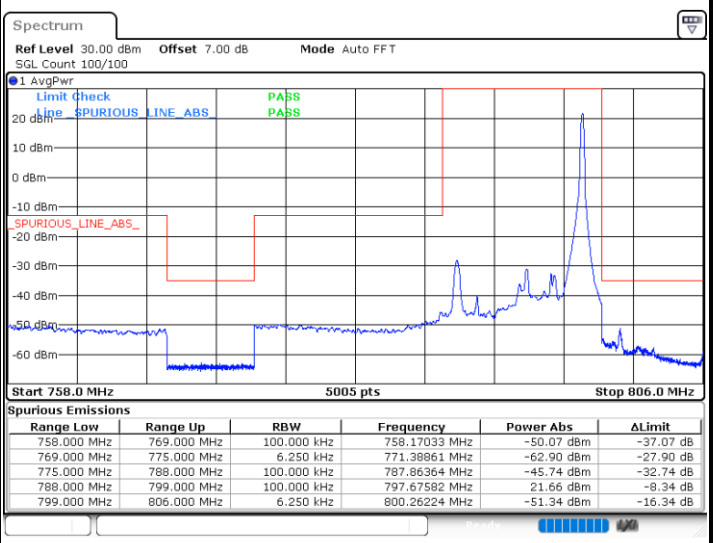


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.30220 MHz	-49.58 dBm	-36.58 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.67466 MHz	-62.09 dBm	-27.09 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-14.75 dBm	-1.75 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.32418 MHz	22.09 dBm	-7.91 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.03147 MHz	-60.64 dBm	-25.64 dB

Date: 30.NOV.2025 20:04:22

Highest Band Edge / 1 RB

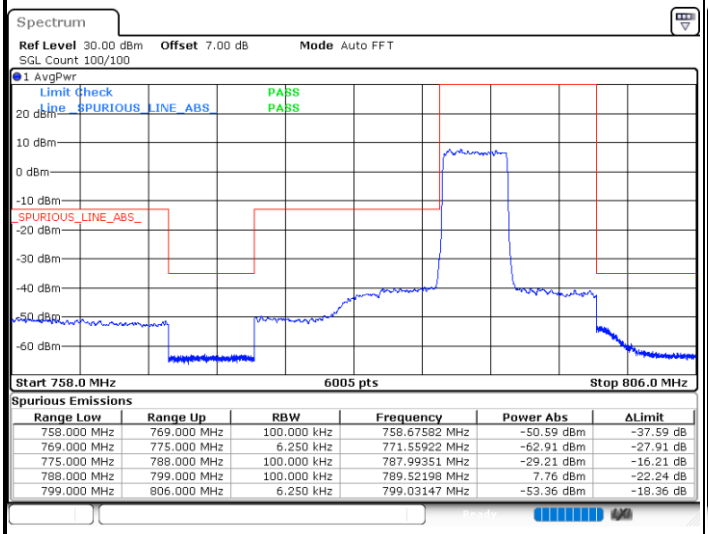


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.17033 MHz	-50.07 dBm	-37.07 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.38861 MHz	-62.90 dBm	-27.90 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.86364 MHz	-45.74 dBm	-32.74 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.67582 MHz	21.66 dBm	-8.34 dB
799.000 MHz	806.000 MHz	6.250 kHz	800.26224 MHz	-51.34 dBm	-16.34 dB

Date: 28.NOV.2025 12:41:11

Lowest Band Edge / Full RB

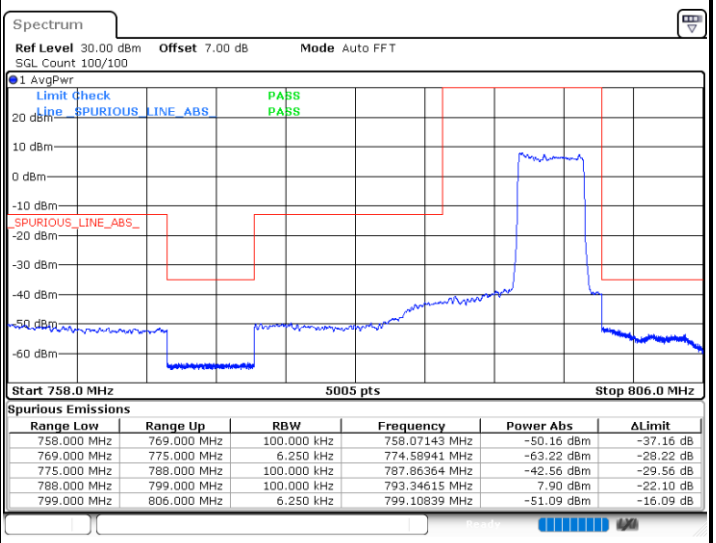


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.67582 MHz	-50.59 dBm	-37.59 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.55922 MHz	-62.91 dBm	-27.91 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-29.21 dBm	-16.21 dB
788.000 MHz	799.000 MHz	100.000 kHz	789.52198 MHz	7.76 dBm	-22.24 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.03147 MHz	-53.36 dBm	-18.36 dB

Date: 28.NOV.2025 12:22:26

Highest Band Edge / Full RB



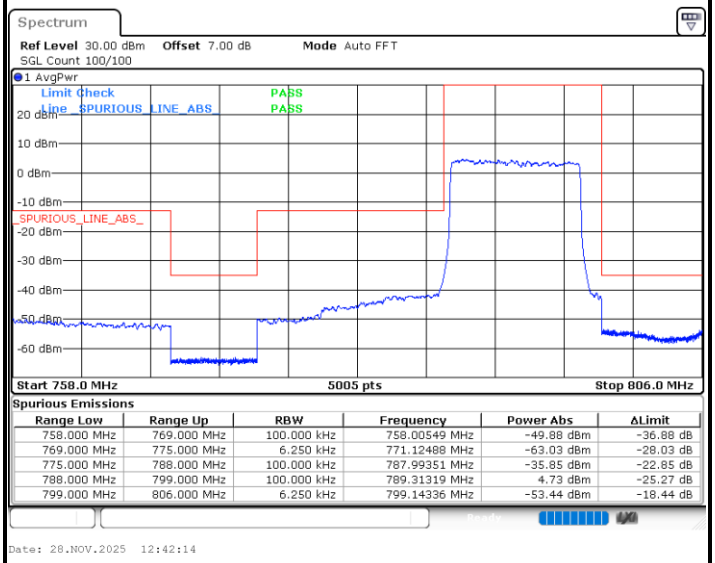
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.07143 MHz	-50.16 dBm	-37.16 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.58941 MHz	-63.22 dBm	-28.22 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.86364 MHz	-42.56 dBm	-29.56 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.34615 MHz	7.90 dBm	-22.10 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.10839 MHz	-51.09 dBm	-16.09 dB

Date: 28.NOV.2025 12:40:05

LTE Band 14 / 10MHz / QPSK

Band Edge / Full RB



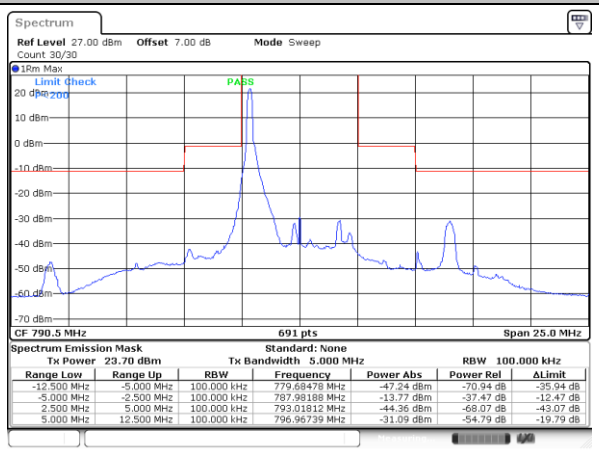
Spurious Emissions

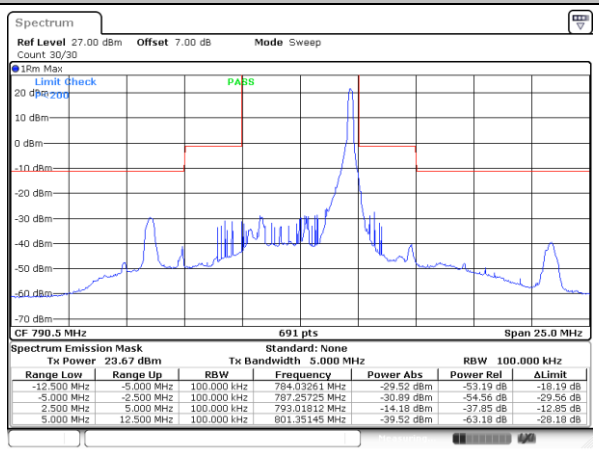
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.00549 MHz	-49.88 dBm	-36.88 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.12488 MHz	-63.03 dBm	-28.03 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-35.85 dBm	-22.85 dB
788.000 MHz	799.000 MHz	100.000 kHz	789.31319 MHz	4.73 dBm	-25.27 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.14336 MHz	-53.44 dBm	-18.44 dB

Mask

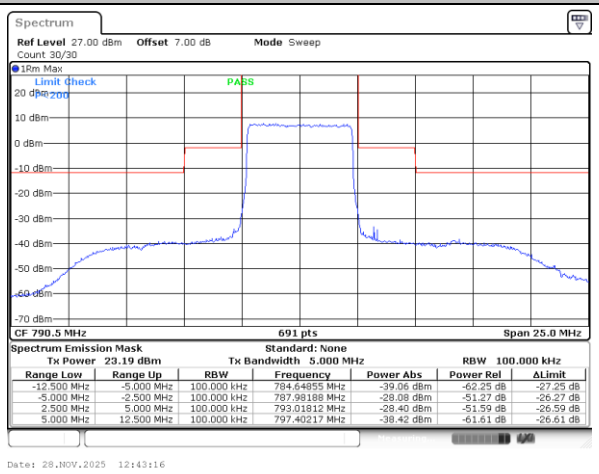
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



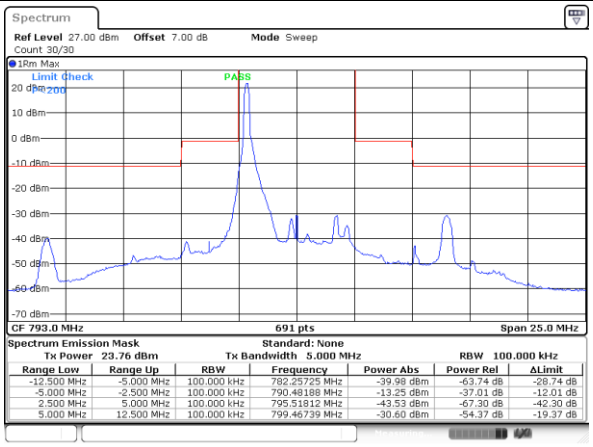


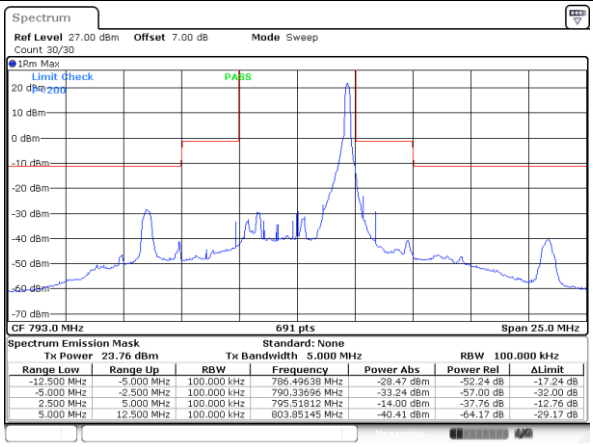
Lowest Channel / Full RB



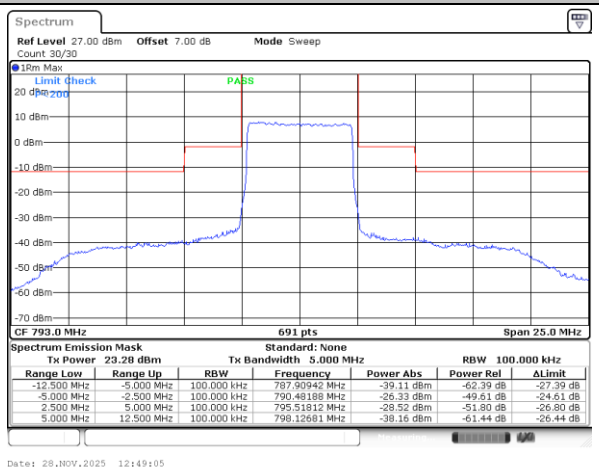
LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB



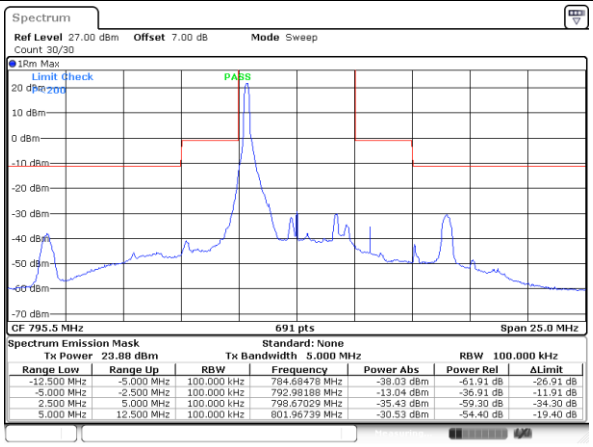


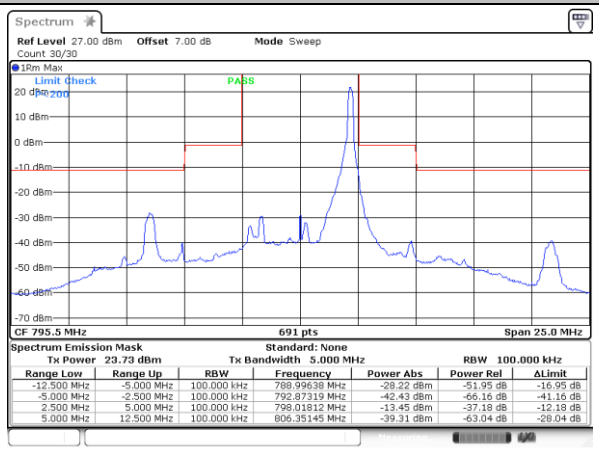
Middle Channel / Full RB



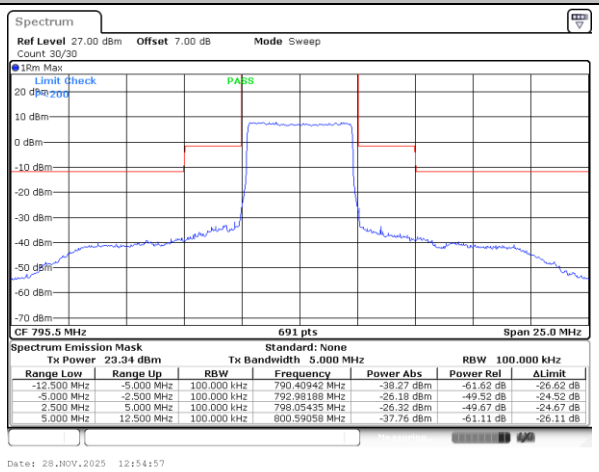
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



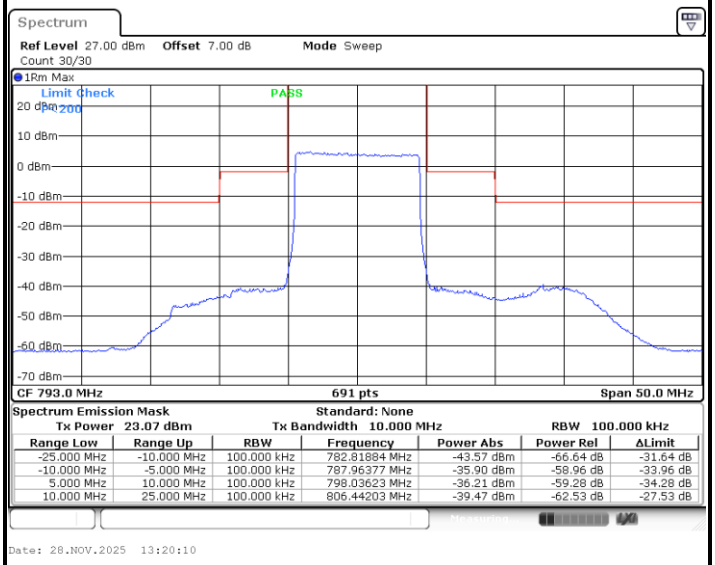


Highest Channel / Full RB



LTE Band 14 / 10MHz / QPSK

Middle Channel / Full RB

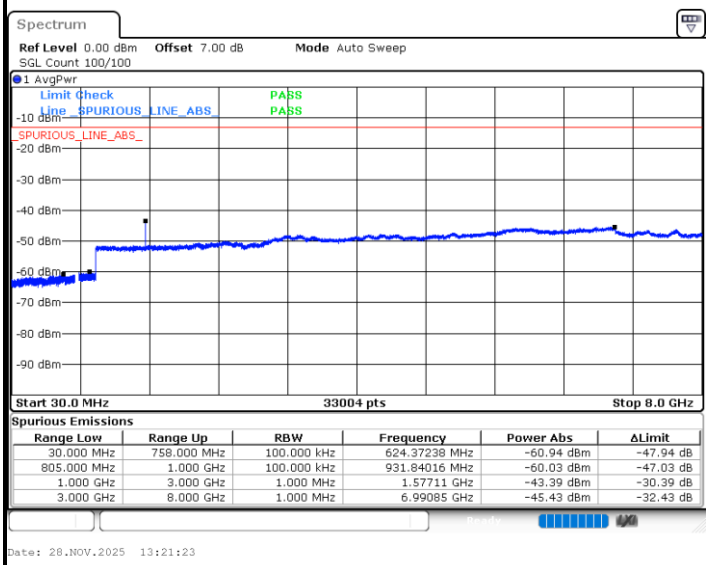


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-25.000 MHz	-10.000 MHz	100.000 kHz	782.81884 MHz	-43.57 dBm	-66.64 dB	-31.64 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.96377 MHz	-35.90 dBm	-58.96 dB	-33.96 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.03623 MHz	-36.21 dBm	-59.28 dB	-34.28 dB
10.000 MHz	25.000 MHz	100.000 kHz	806.44203 MHz	-39.47 dBm	-62.53 dB	-27.53 dB

Conducted Spurious Emission

LTE Band 14 / 5MHz

Lowest Channel / QPSK

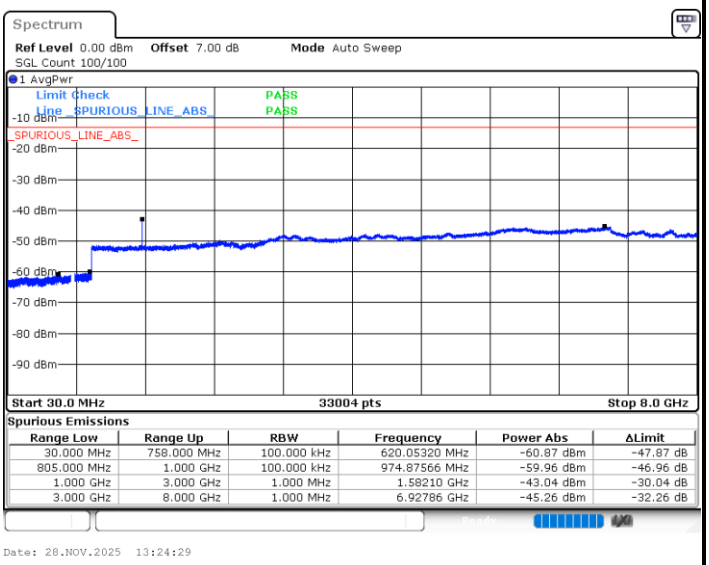


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	624.37238 MHz	-60.94 dBm	-47.94 dB
805.000 MHz	1.000 GHz	100.000 kHz	931.84016 MHz	-60.03 dBm	-47.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-43.39 dBm	-30.39 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99085 GHz	-45.43 dBm	-32.43 dB

Date: 28.NOV.2025 13:21:23

Middle Channel / QPSK

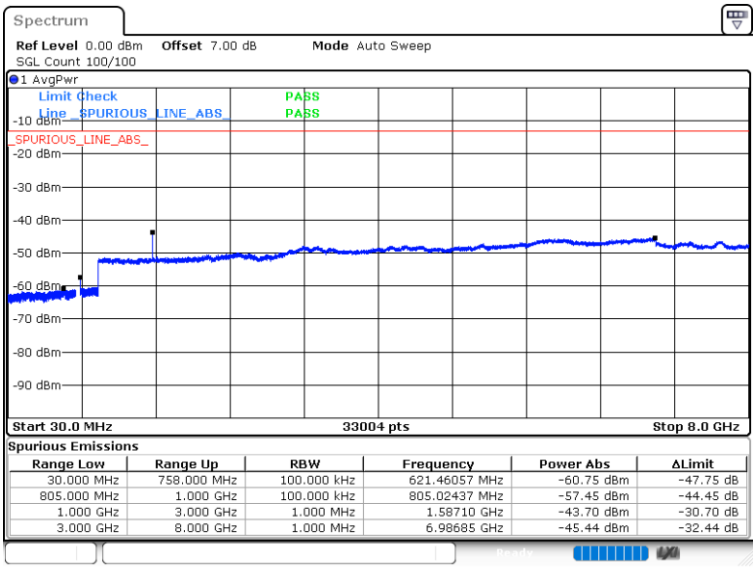


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	620.05320 MHz	-60.87 dBm	-47.87 dB
805.000 MHz	1.000 GHz	100.000 kHz	974.87566 MHz	-59.96 dBm	-46.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-43.04 dBm	-30.04 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92786 GHz	-45.26 dBm	-32.26 dB

Date: 28.NOV.2025 13:24:29

Highest Channel / QPSK

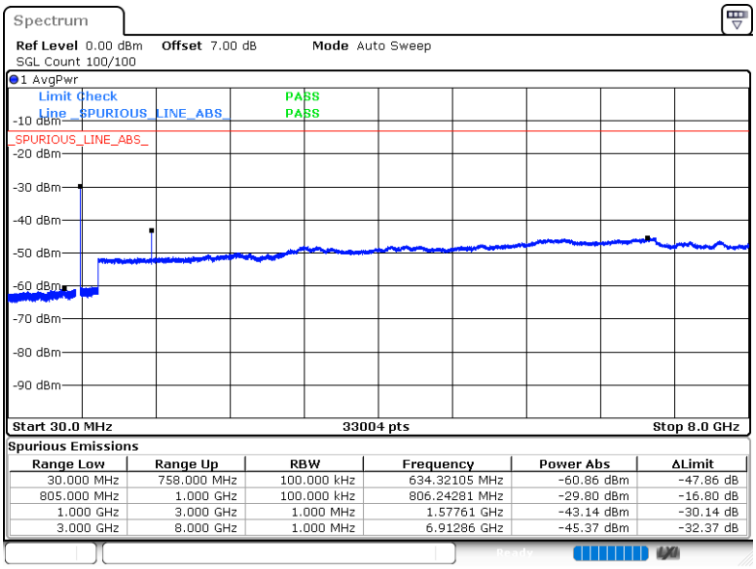


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	621.46057 MHz	-60.75 dBm	-47.75 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.02437 MHz	-57.45 dBm	-44.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-43.70 dBm	-30.70 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98685 GHz	-45.44 dBm	-32.44 dB

Date: 28.NOV.2025 13:28:01

LTE Band 14 / 10MHz
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	634.32105 MHz	-60.86 dBm	-47.86 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.24281 MHz	-29.80 dBm	-16.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-43.14 dBm	-30.14 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.91286 GHz	-45.37 dBm	-32.37 dB

Date: 28.NOV.2025 13:29:50

Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel				
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (△f) (Hz)		Within Authorized Frequency Block(Hz)	Result
		BW 10MHz	BW 5MHz	BW 10MHz		
50	Normal Voltage	0.0093	-8.1	-7.4	Yes	PASS
40	Normal Voltage	0.0023	-1.4	1.8	Yes	
30	Normal Voltage	0.0048	-2.5	-3.8	Yes	
20(Ref.)	Normal Voltage	0.0000	0	0	Yes	
10	Normal Voltage	0.0029	-0.3	-2.3	Yes	
0	Normal Voltage	0.0004	9.5	0.3	Yes	
-10	Normal Voltage	0.0020	8.2	1.6	Yes	
-20	Normal Voltage	0.0020	5	1.6	Yes	
-30	Normal Voltage	0.0023	2.2	-1.8	Yes	
20	Maximum Voltage	0.0117	-3.6	-9.3	Yes	
20	Normal Voltage	0.0000	0	0	Yes	
20	Minimum Voltage	0.0122	6.3	-9.7	Yes	

Note:

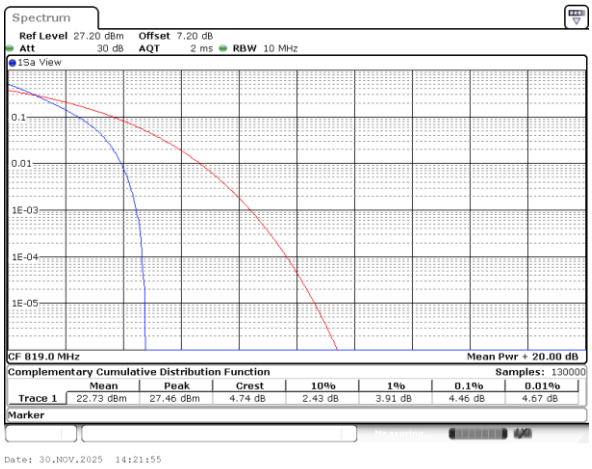
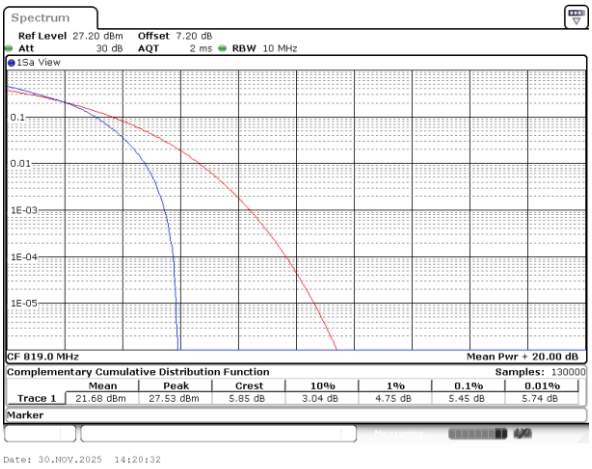
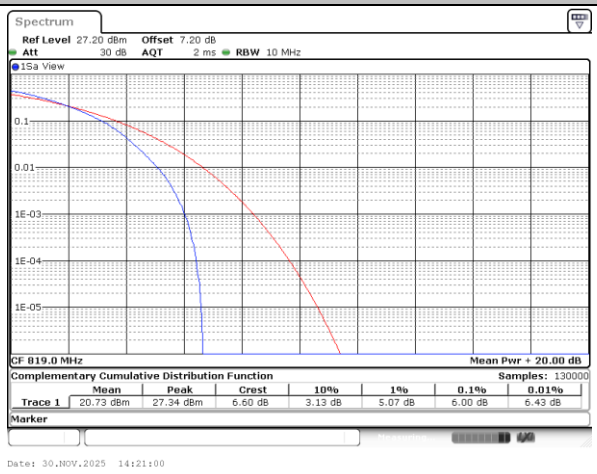
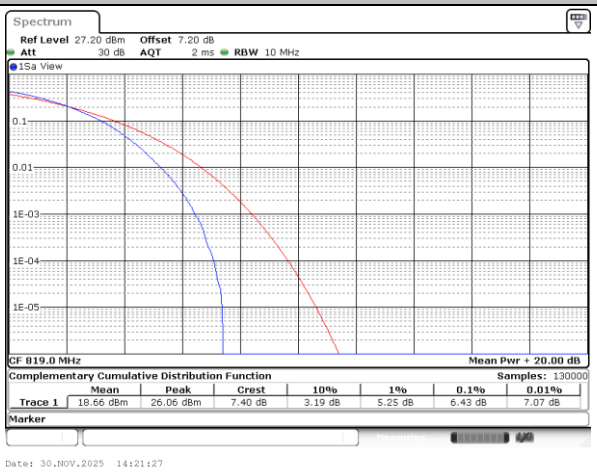
1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

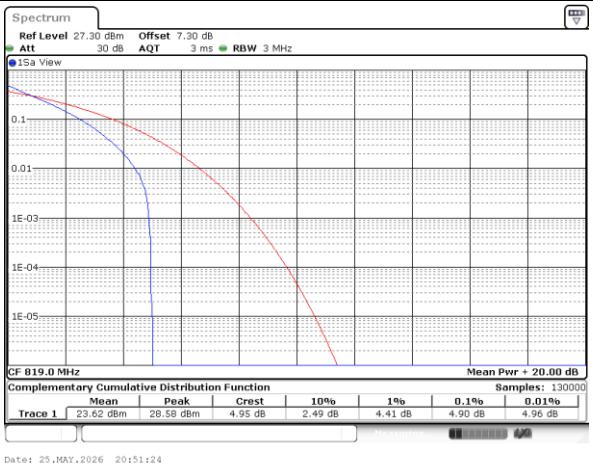
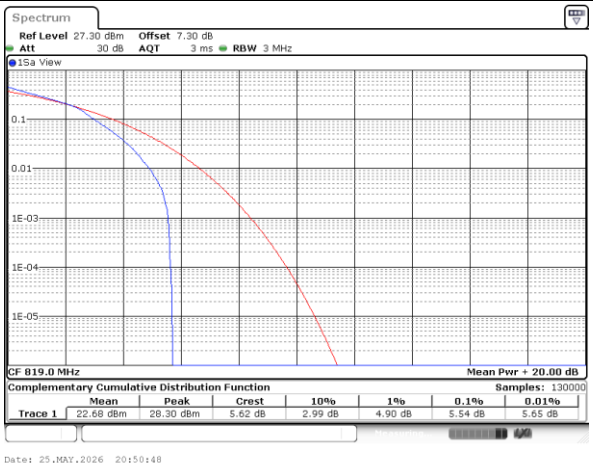
LTE Band 26_Part 90S

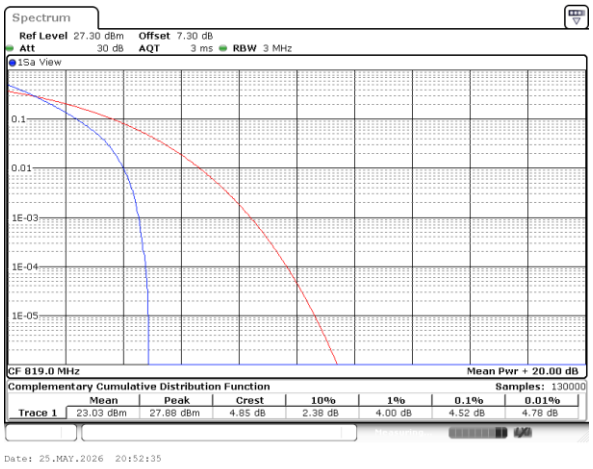
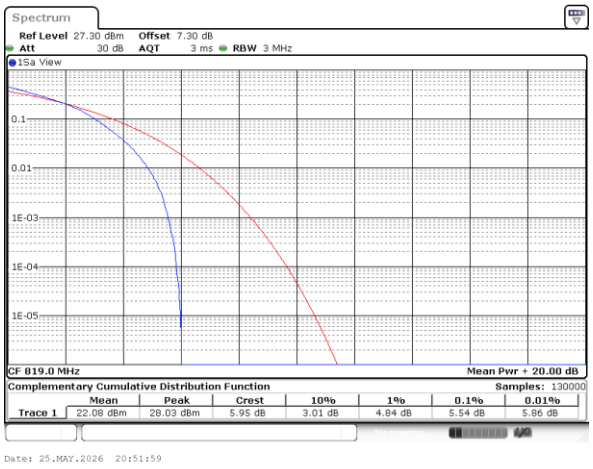
Peak-to-Average Ratio

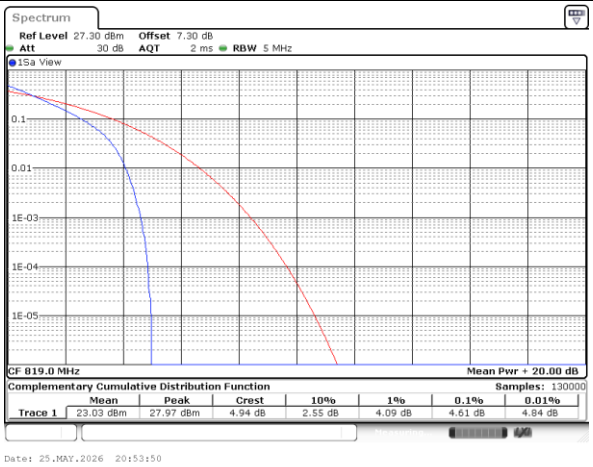
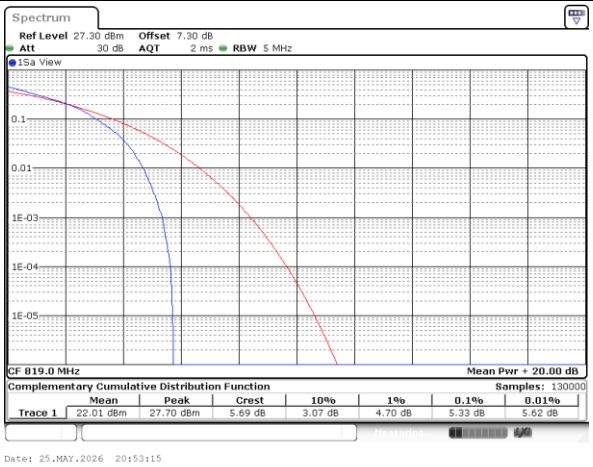
Mode	LTE Band 26 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.45	6.00	6.43	PASS

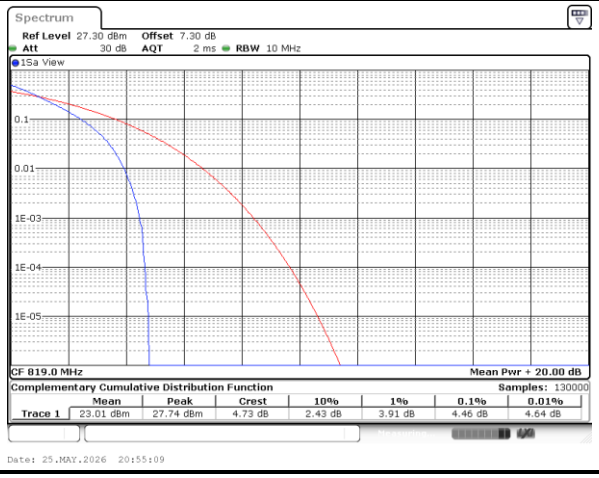
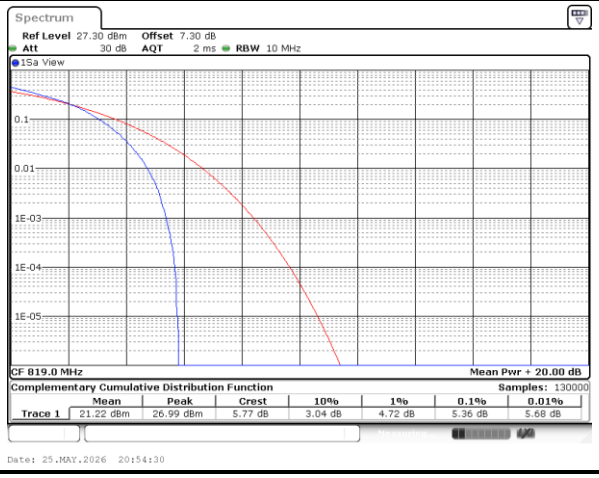
Mode	LTE Band 26_Part 90S / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.90	5.54	PASS
Mode	LTE Band 26_Part 90S / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.52	5.54	PASS
Mode	LTE Band 26_Part 90S / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.61	5.33	PASS
Mode	LTE Band 26_Part 90S / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.46	5.36	PASS

LTE Band 26 / 10MHz / QPSK	LTE Band 26 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 26 / 10MHz / 64QAM	LTE Band 26 / 10MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26_Part 90S / 1.4MHz / QPSK	LTE Band 26_Part 90S / 1.4MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	

LTE Band 26_Part 90S	
LTE Band 26_Part 90S / 3MHz / QPSK	**LTE Band 26_Part 90S / 3MHz / 16QAM**
Middle Channel / Full RB	**Middle Channel / Full RB**
	

LTE Band 26_Part 90S	
LTE Band 26_Part 90S / 5MHz / QPSK	LTE Band 26_Part 90S / 5MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

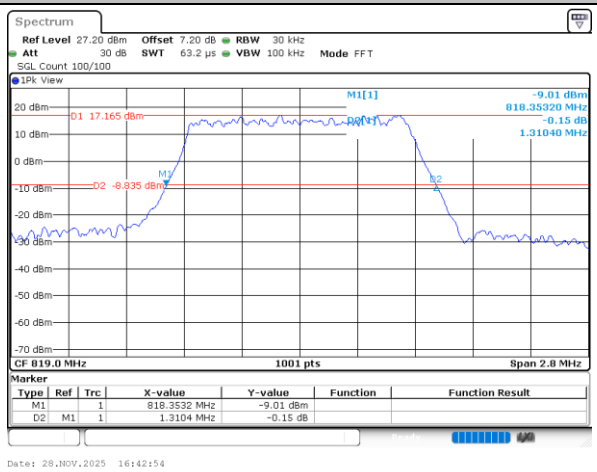
LTE Band 26_Part 90S	
LTE Band 26_Part 90S / 10MHz / QPSK	LTE Band 26_Part 90S / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

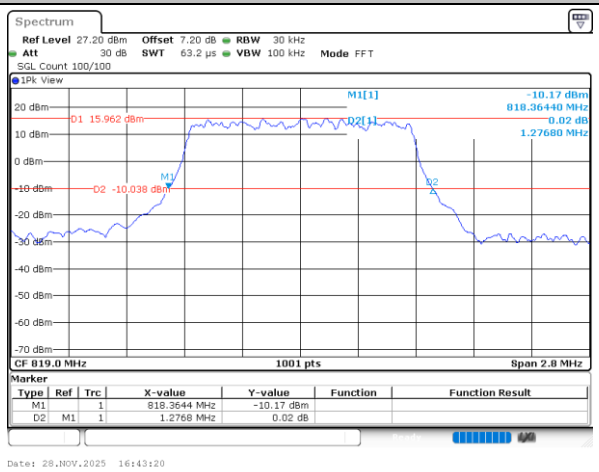
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low CH	-	-	-	-	-	-	-	-	14.22	14.46	-	-
Middle CH	1.31	1.27	2.99	2.93	4.92	4.89	9.80	9.78	-	-	-	-

LTE Band 26

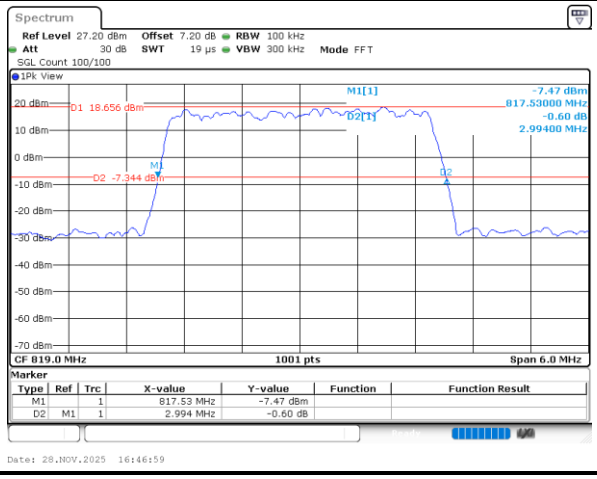
Middle Channel / 1.4MHz / QPSK



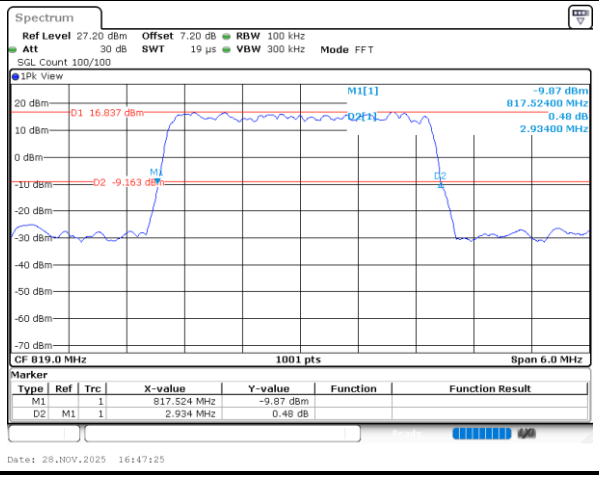
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

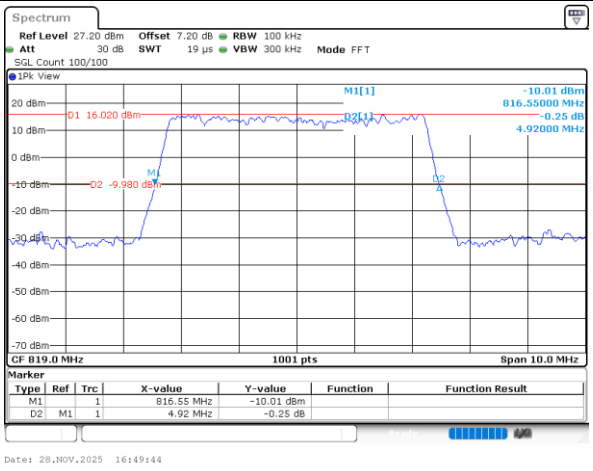


Middle Channel / 3MHz / 16QAM

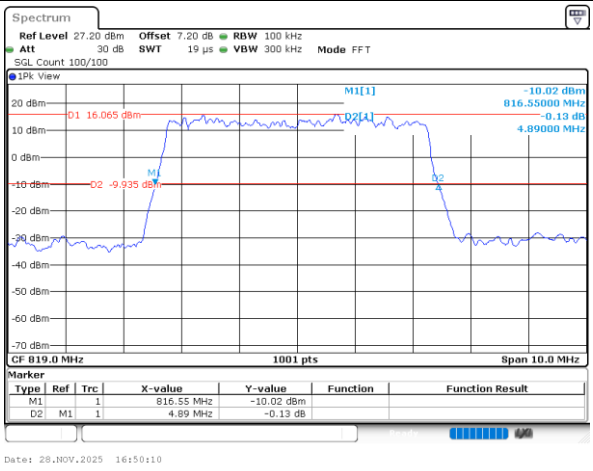


LTE Band 26

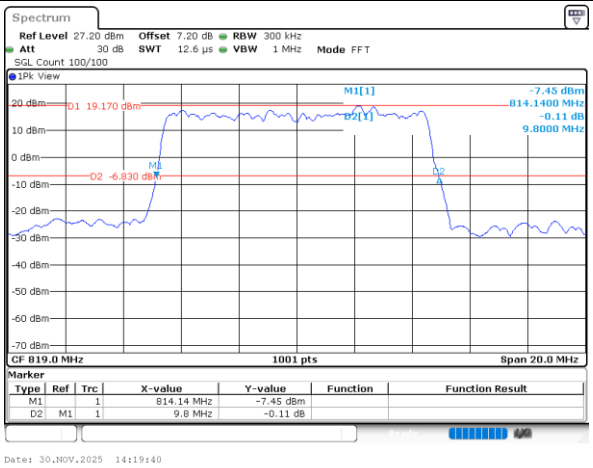
Middle Channel / 5MHz / QPSK



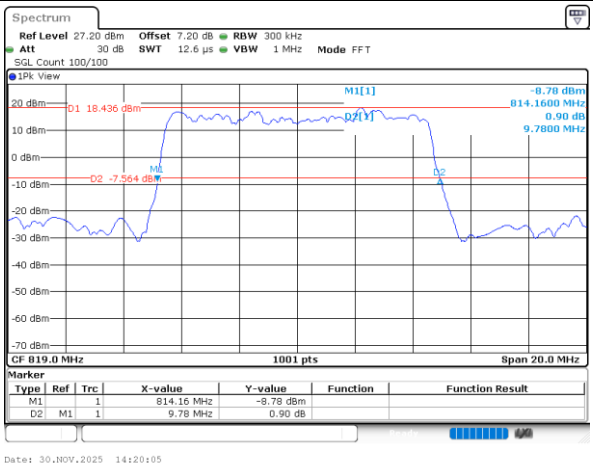
Middle Channel / 5MHz / 16QAM



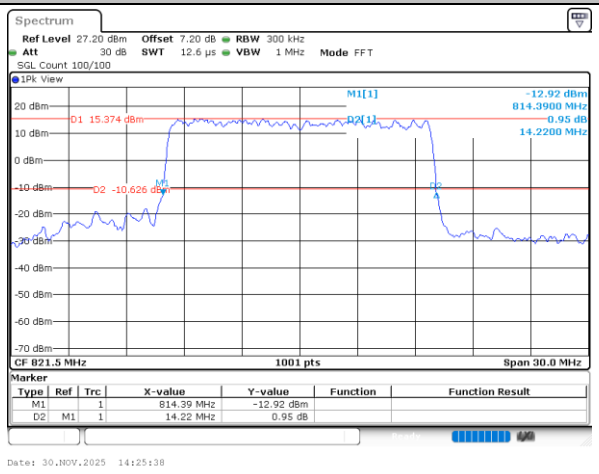
Middle Channel / 10MHz / QPSK



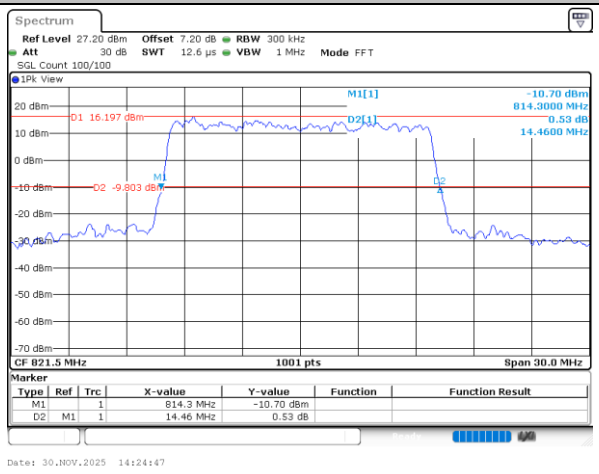
Middle Channel / 10MHz / 16QAM



Low Channel / 15MHz / QPSK



Low Channel / 15MHz / 16QAM

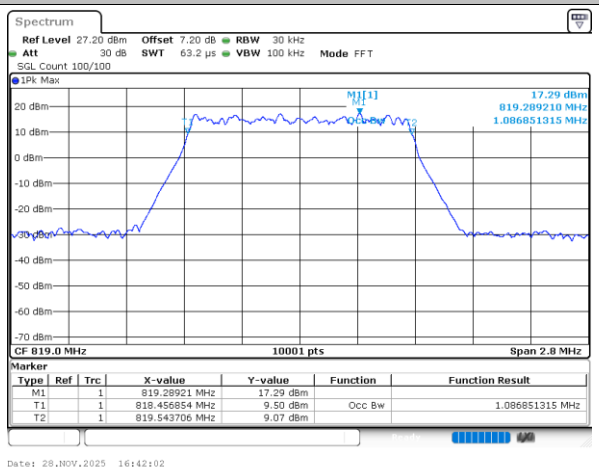


Occupied Bandwidth

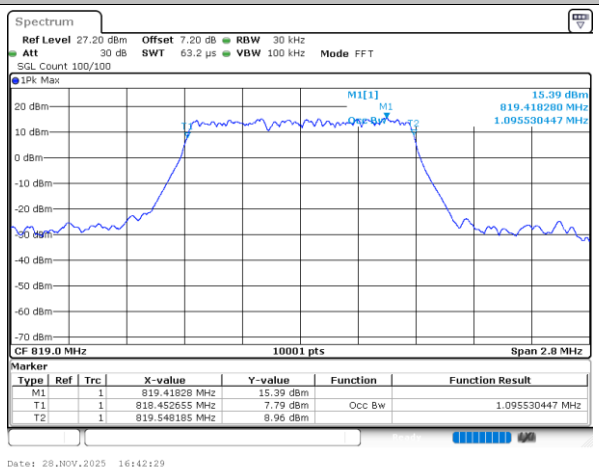
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low CH	-	-	-	-	-	-	-	-	13.45	13.42	-	-
Middle CH	1.08	1.09	2.71	2.71	4.50	4.48	9.07	9.06	-	-	-	-

LTE Band 26

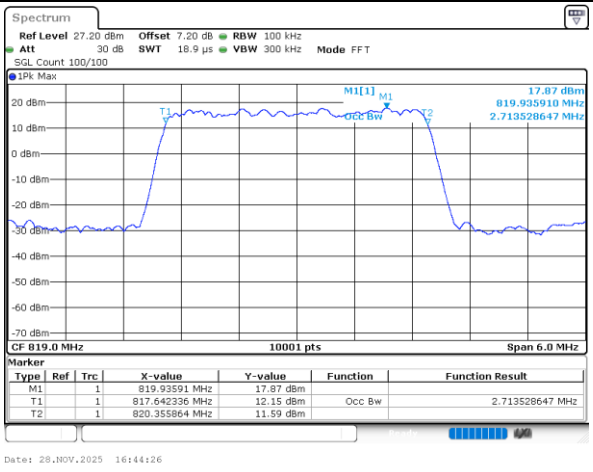
Middle Channel / 1.4MHz / QPSK



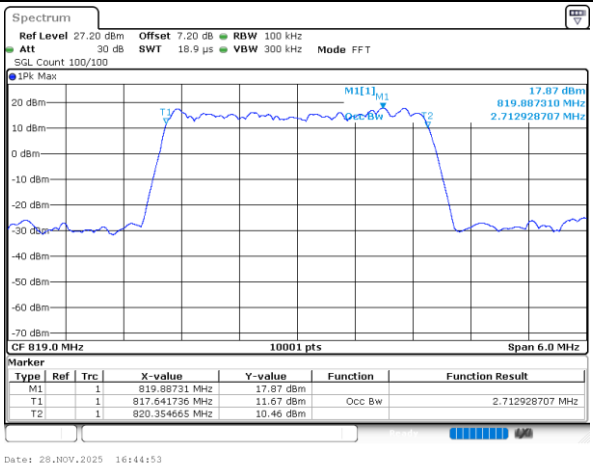
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

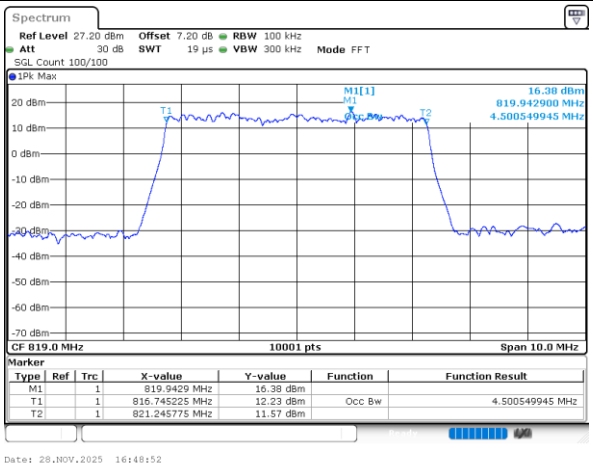


Middle Channel / 3MHz / 16QAM

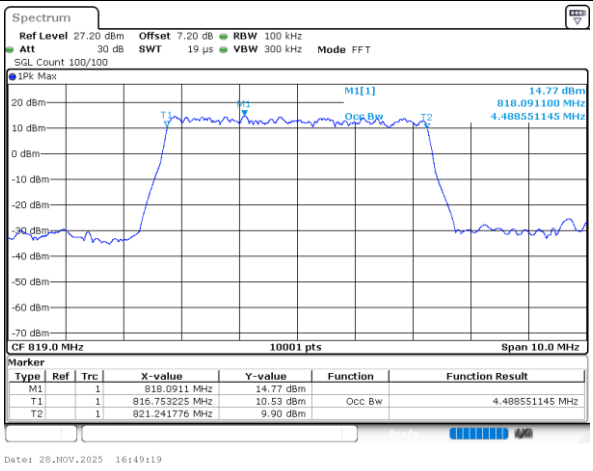


LTE Band 26

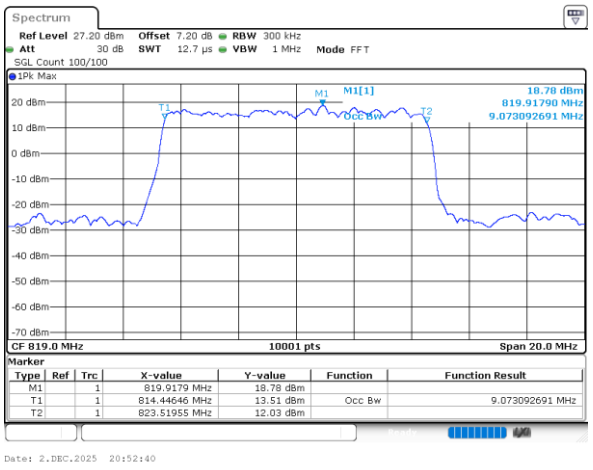
Middle Channel / 5MHz / QPSK



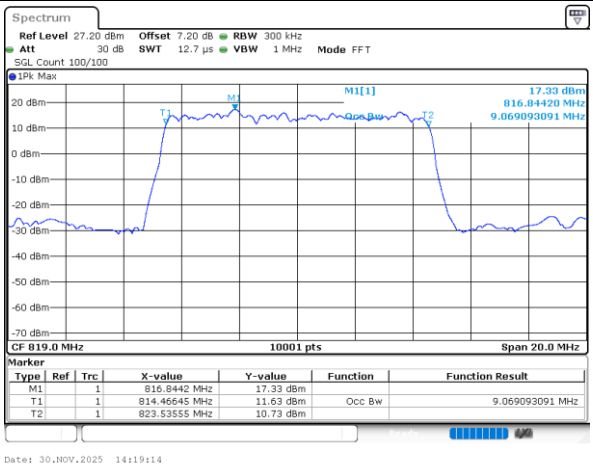
Middle Channel / 5MHz / 16QAM



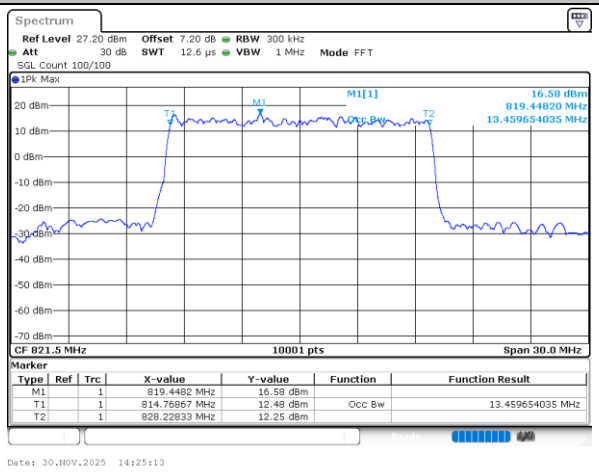
Middle Channel / 10MHz / QPSK



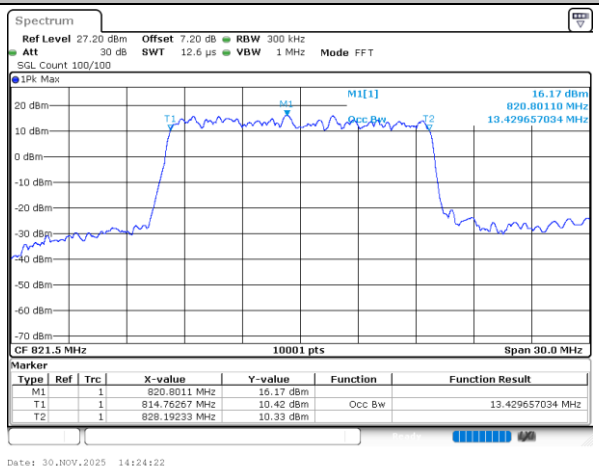
Middle Channel / 10MHz / 16QAM



Low Channel / 15MHz / QPSK



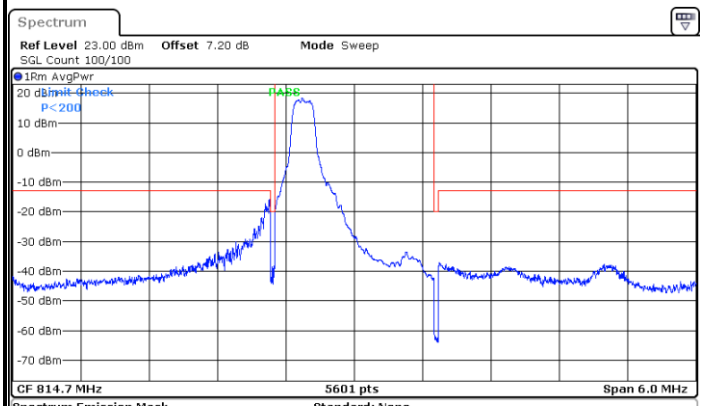
Low Channel / 15MHz / 16QAM



Emission masks – In-band emissions

LTE Band 26 / 1.4MHz / QPSK

Lowest Channel / 1RB

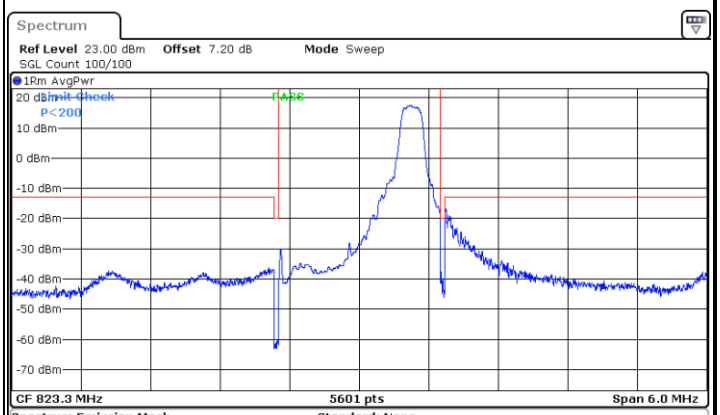


Spectrum Emission Mask Standard: None
Tx Power 24.80 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95232 MHz	-15.85 dBm	-40.65 dB	-2.85 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99839 MHz	-37.35 dBm	-62.15 dB	-17.35 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40054 MHz	-61.03 dBm	-85.83 dB	-41.03 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.44553 MHz	-37.00 dBm	-61.80 dB	-24.00 dB

Date: 30.NOV.2025 20:17:00

Highest Channel / 1RB

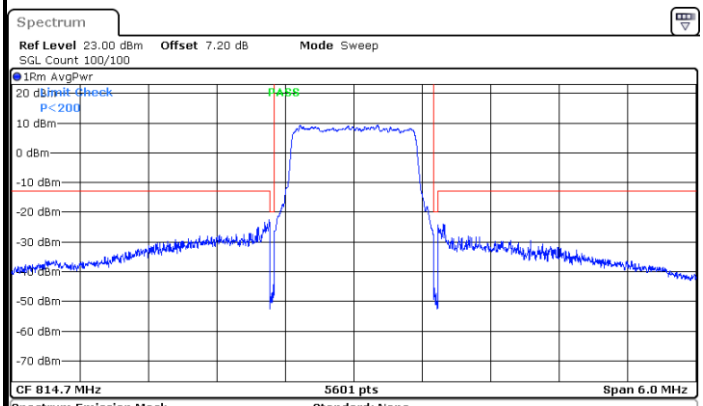


Spectrum Emission Mask Standard: None
Tx Power 24.19 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.51590 MHz	-36.32 dBm	-60.51 dB	-23.32 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.56304 MHz	-59.96 dBm	-84.14 dB	-39.96 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00696 MHz	-37.69 dBm	-61.88 dB	-17.69 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04125 MHz	-16.71 dBm	-40.90 dB	-3.71 dB

Date: 28.NOV.2025 15:58:39

Lowest Channel / Full RB

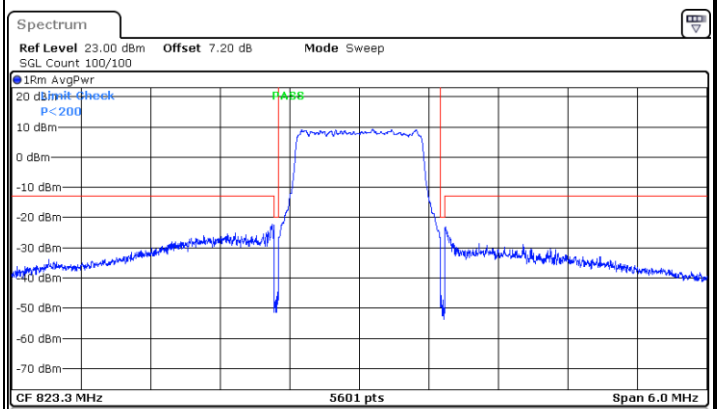


Spectrum Emission Mask Standard: None
Tx Power 23.24 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95447 MHz	-22.48 dBm	-45.73 dB	-9.48 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99732 MHz	-44.32 dBm	-67.56 dB	-24.32 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40696 MHz	-45.60 dBm	-68.84 dB	-25.60 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.48517 MHz	-24.04 dBm	-47.29 dB	-11.04 dB

Date: 28.NOV.2025 15:57:33

Highest Channel / Full RB



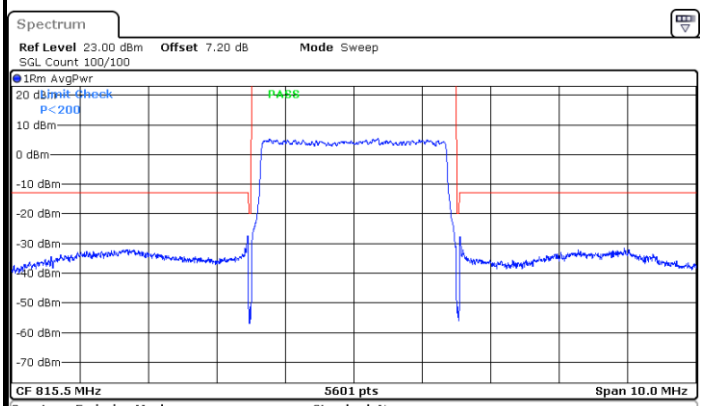
Spectrum Emission Mask Standard: None
Tx Power 23.33 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.54697 MHz	-22.27 dBm	-45.61 dB	-9.27 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59732 MHz	-44.61 dBm	-67.94 dB	-24.61 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00696 MHz	-45.83 dBm	-69.16 dB	-25.83 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04446 MHz	-23.05 dBm	-46.39 dB	-10.05 dB

Date: 28.NOV.2025 16:04:09

LTE Band 26 / 3MHz / QPSK

Lowest Channel / Full RB

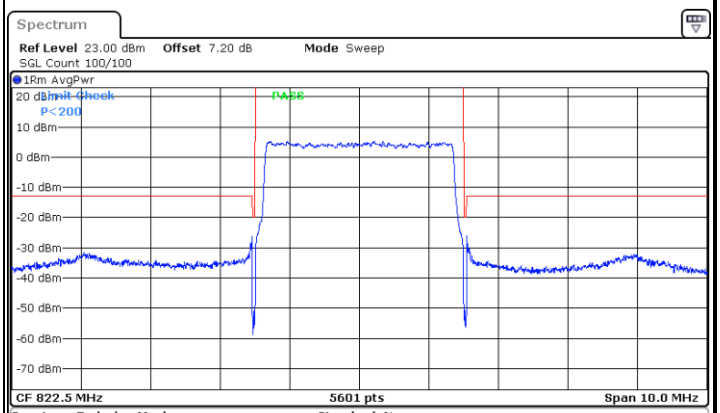


Spectrum Emission Mask Standard: None
Tx Power 23.30 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.94911 MHz	-27.42 dBm	-50.71 dB	-14.42 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-50.15 dBm	-73.45 dB	-30.15 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00268 MHz	-49.31 dBm	-72.61 dB	-29.31 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.05089 MHz	-27.76 dBm	-51.06 dB	-14.76 dB

Date: 28.NOV.2025 16:11:52

Highest Channel / Full RB



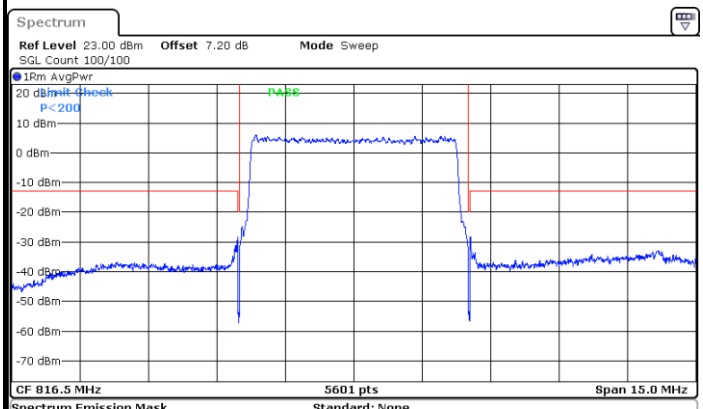
Spectrum Emission Mask Standard: None
Tx Power 23.33 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.95982 MHz	-26.28 dBm	-49.61 dB	-13.28 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99911 MHz	-49.44 dBm	-72.77 dB	-29.44 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00268 MHz	-48.59 dBm	-71.92 dB	-28.59 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.03839 MHz	-25.90 dBm	-49.23 dB	-12.90 dB

Date: 28.NOV.2025 16:12:55

LTE Band 26 / 5MHz / QPSK

Lowest Channel / Full RB

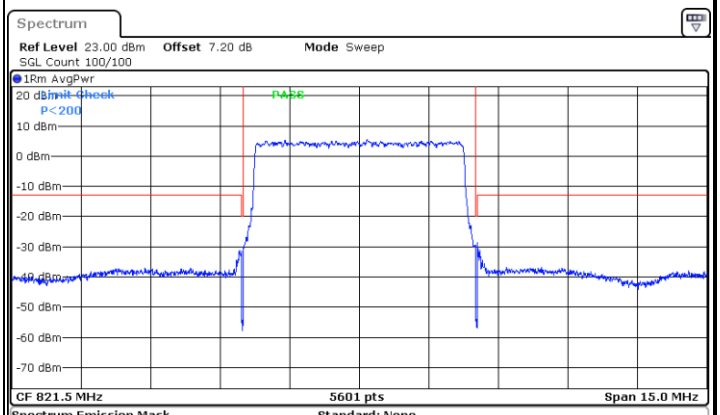


Spectrum Emission Mask Standard: None
Tx Power 23.43 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.95044 MHz	-28.29 dBm	-51.71 dB	-15.29 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-52.74 dBm	-76.17 dB	-32.74 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00134 MHz	-52.38 dBm	-75.81 dB	-32.38 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.05492 MHz	-28.33 dBm	-51.75 dB	-15.33 dB

Date: 28.NOV.2025 16:19:42

Highest Channel / Full RB

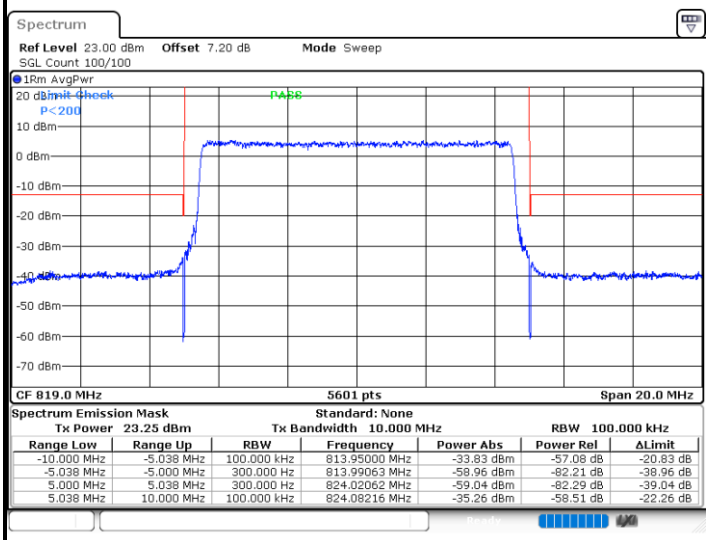


Spectrum Emission Mask Standard: None
Tx Power 23.32 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.91025 MHz	-31.13 dBm	-54.46 dB	-18.13 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-53.17 dBm	-76.49 dB	-33.17 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-52.74 dBm	-76.06 dB	-32.74 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-28.68 dBm	-52.01 dB	-15.68 dB

Date: 28.NOV.2025 16:21:30

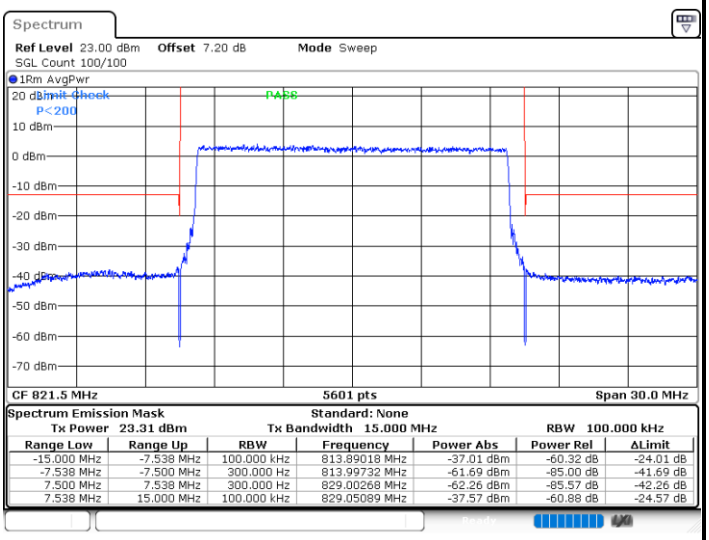
LTE Band 26 / 10MHz / QPSK	LTE Band 26 / 15MHz / QPSK
Middle Channel / Full RB	**Lowest Channel / Full RB**



Spectrum Emission Mask Standard: None
Tx Power 23.25 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.95000 MHz	-33.83 dBm	-57.08 dB	-20.83 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99063 MHz	-58.96 dBm	-82.21 dB	-38.96 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.02062 MHz	-59.04 dBm	-82.29 dB	-39.04 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.08216 MHz	-35.26 dBm	-58.51 dB	-22.26 dB

Date: 28.NOV.2025 16:23:35



Spectrum Emission Mask Standard: None
Tx Power 23.31 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

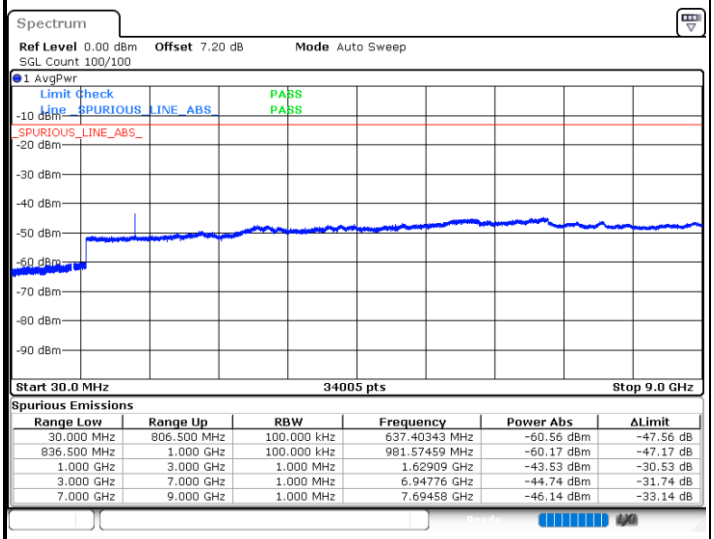
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.89018 MHz	-37.01 dBm	-60.32 dB	-24.01 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.99732 MHz	-61.69 dBm	-85.00 dB	-41.69 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.00268 MHz	-62.26 dBm	-85.57 dB	-42.26 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05089 MHz	-37.57 dBm	-60.88 dB	-24.57 dB

Date: 28.NOV.2025 16:25:21

Emission masks – Out of band emissions

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

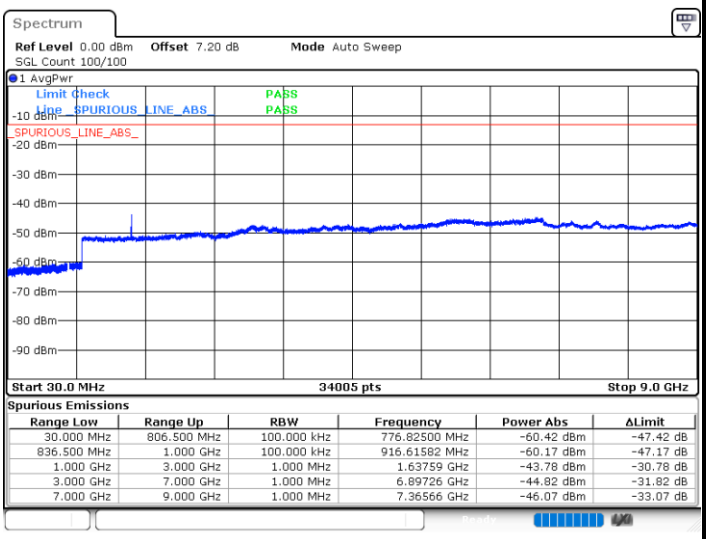


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	637.40343 MHz	-60.56 dBm	-47.56 dB
836.500 MHz	1.000 GHz	100.000 kHz	981.57459 MHz	-60.17 dBm	-47.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-43.53 dBm	-30.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94776 GHz	-44.74 dBm	-31.74 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.69458 GHz	-46.14 dBm	-33.14 dB

Date: 28.NOV.2025 15:46:46

Middle Channel / QPSK

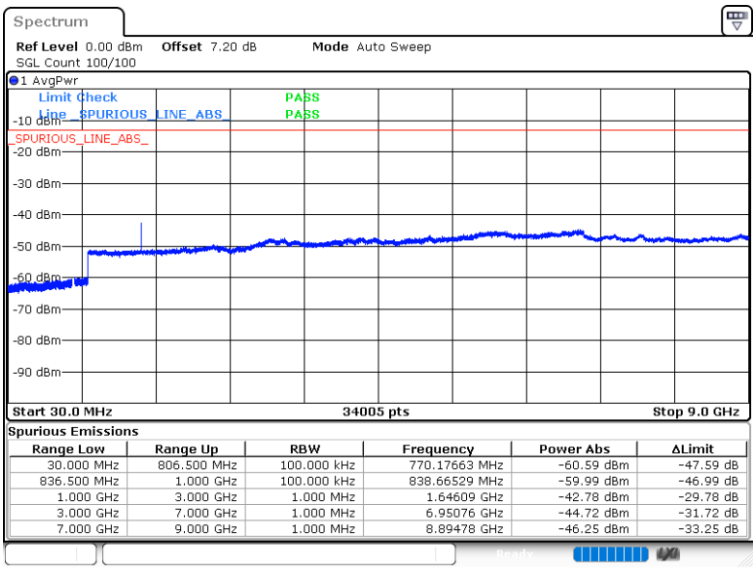


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	776.82500 MHz	-60.42 dBm	-47.42 dB
836.500 MHz	1.000 GHz	100.000 kHz	916.61582 MHz	-60.17 dBm	-47.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-43.78 dBm	-30.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89726 GHz	-44.82 dBm	-31.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36566 GHz	-46.07 dBm	-33.07 dB

Date: 28.NOV.2025 15:49:04

Highest Channel / QPSK



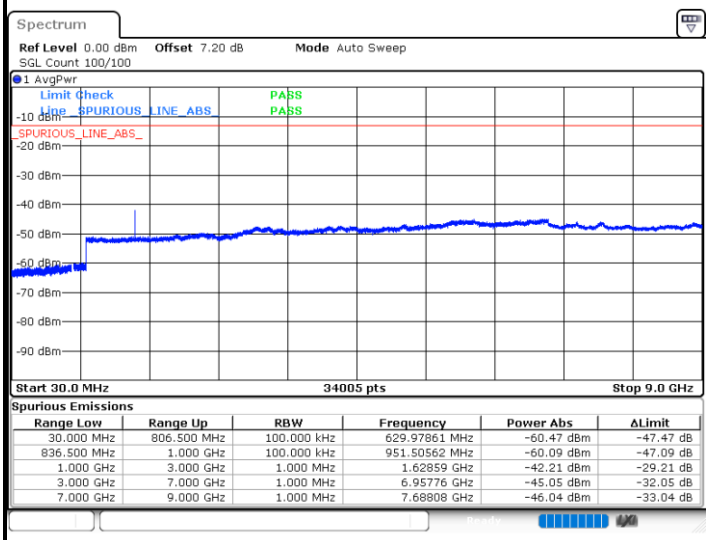
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	770.17663 MHz	-60.59 dBm	-47.59 dB
836.500 MHz	1.000 GHz	100.000 kHz	838.66529 MHz	-59.99 dBm	-46.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-42.78 dBm	-29.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95076 GHz	-44.72 dBm	-31.72 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89478 GHz	-46.25 dBm	-33.25 dB

Date: 28.NOV.2025 15:51:23

LTE Band 26 / 3MHz

Lowest Channel / QPSK

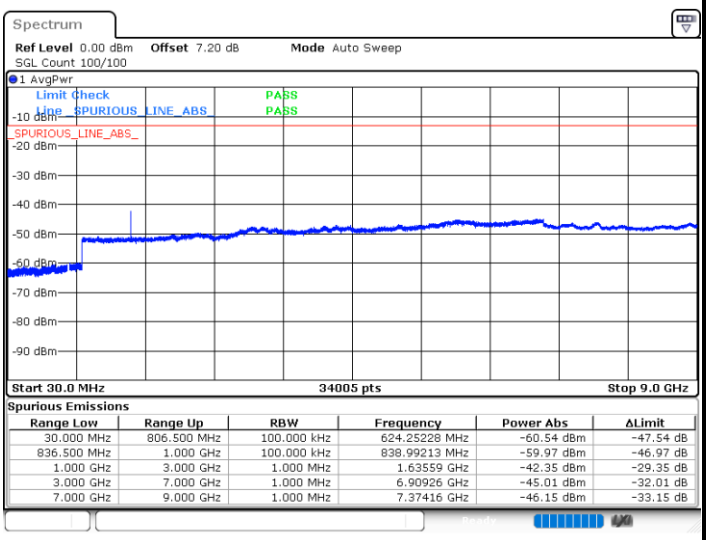


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	629.97861 MHz	-60.47 dBm	-47.47 dB
836.500 MHz	1.000 GHz	100.000 kHz	951.50562 MHz	-60.09 dBm	-47.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.21 dBm	-29.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95776 GHz	-45.05 dBm	-32.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.68808 GHz	-46.04 dBm	-33.04 dB

Date: 28.NOV.2025 16:27:07

Middle Channel / QPSK

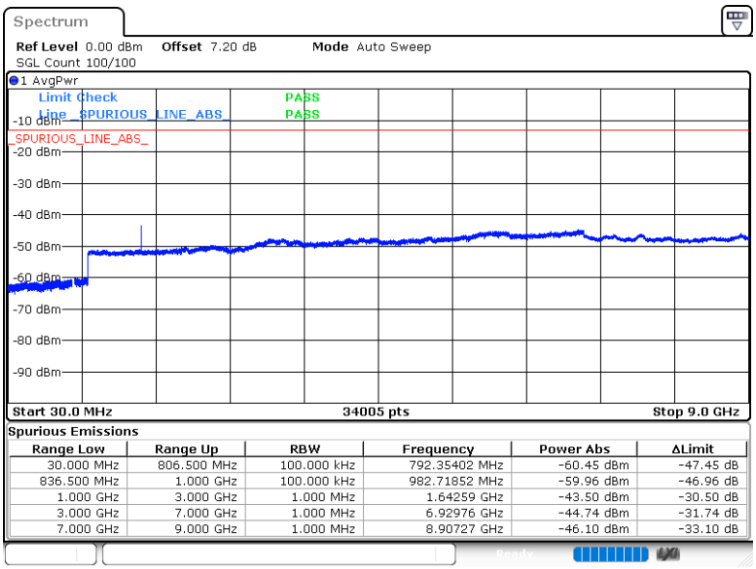


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	624.25228 MHz	-60.54 dBm	-47.54 dB
836.500 MHz	1.000 GHz	100.000 kHz	838.99213 MHz	-59.97 dBm	-46.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-42.35 dBm	-29.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90926 GHz	-45.01 dBm	-32.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37416 GHz	-46.15 dBm	-33.15 dB

Date: 28.NOV.2025 16:28:23

Highest Channel / QPSK



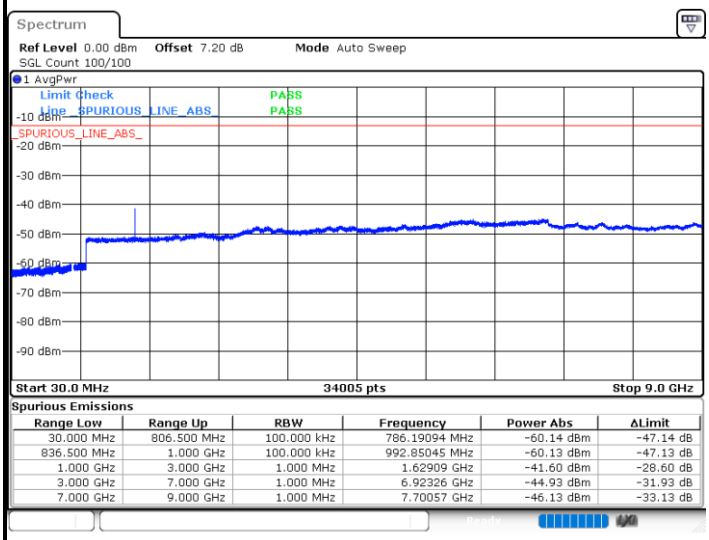
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	792.35402 MHz	-60.45 dBm	-47.45 dB
836.500 MHz	1.000 GHz	100.000 kHz	982.71852 MHz	-59.96 dBm	-46.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-43.50 dBm	-30.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92976 GHz	-44.74 dBm	-31.74 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90727 GHz	-46.10 dBm	-33.10 dB

Date: 28.NOV.2025 16:29:39

LTE Band 26 / 5MHz

Lowest Channel / QPSK

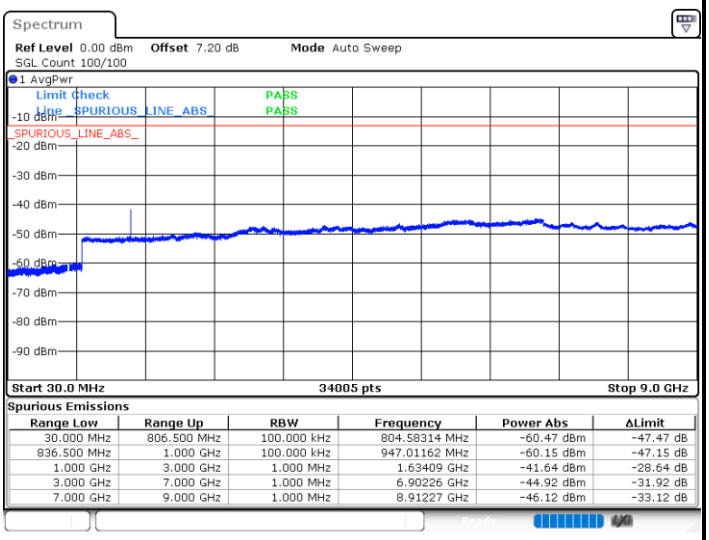


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	786.19094 MHz	-60.14 dBm	-47.14 dB
836.500 MHz	1.000 GHz	100.000 kHz	992.85045 MHz	-60.13 dBm	-47.13 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-41.60 dBm	-28.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92326 GHz	-44.93 dBm	-31.93 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.70057 GHz	-46.13 dBm	-33.13 dB

Date: 28.NOV.2025 16:31:32

Middle Channel / QPSK

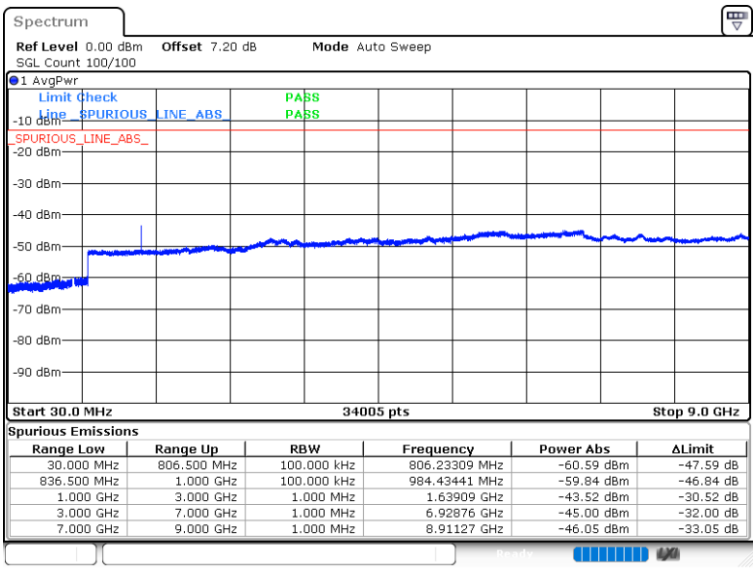


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	804.58314 MHz	-60.47 dBm	-47.47 dB
836.500 MHz	1.000 GHz	100.000 kHz	947.01162 MHz	-60.15 dBm	-47.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-41.64 dBm	-28.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90226 GHz	-44.92 dBm	-31.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91227 GHz	-46.12 dBm	-33.12 dB

Date: 28.NOV.2025 16:32:48

Highest Channel / QPSK



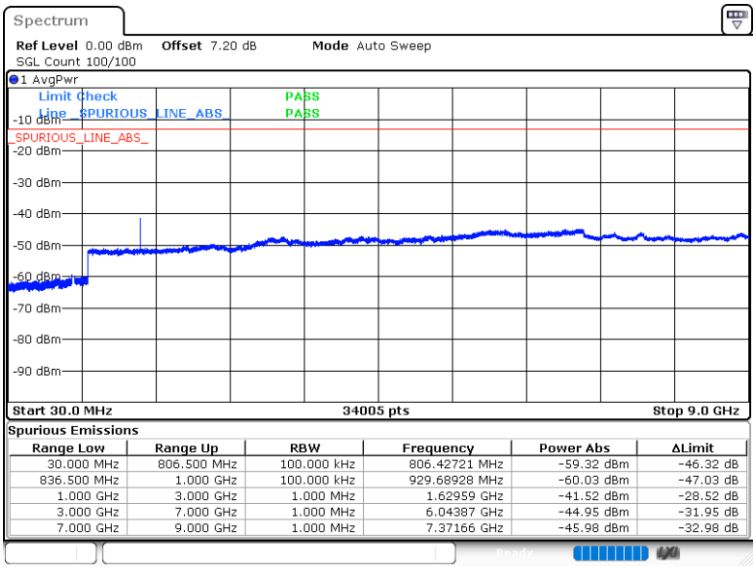
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.23309 MHz	-60.59 dBm	-47.59 dB
836.500 MHz	1.000 GHz	100.000 kHz	984.43441 MHz	-59.84 dBm	-46.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-43.52 dBm	-30.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92876 GHz	-45.00 dBm	-32.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91127 GHz	-46.05 dBm	-33.05 dB

Date: 28.NOV.2025 16:34:04

LTE Band 26 / 10MHz

Middle Channel / QPSK



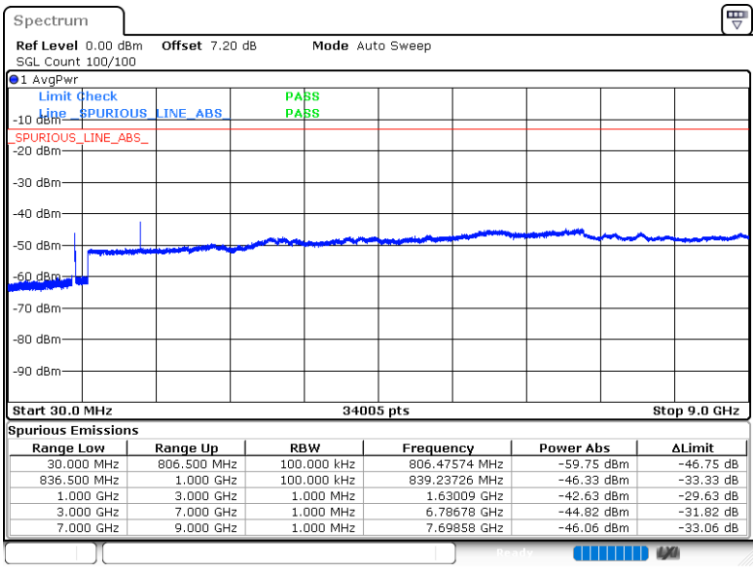
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.42721 MHz	-59.32 dBm	-46.32 dB
836.500 MHz	1.000 GHz	100.000 kHz	929.68928 MHz	-60.03 dBm	-47.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-41.52 dBm	-28.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.04387 GHz	-44.95 dBm	-31.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37166 GHz	-45.98 dBm	-32.98 dB

Date: 28.NOV.2025 16:36:06

LTE Band 26 / 15MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.47574 MHz	-59.75 dBm	-46.75 dB
836.500 MHz	1.000 GHz	100.000 kHz	839.23726 MHz	-46.33 dBm	-33.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-42.63 dBm	-29.63 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78678 GHz	-44.82 dBm	-31.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.69858 GHz	-46.06 dBm	-33.06 dB

Date: 28.NOV.2025 16:40:59

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0063	PASS
40	Normal Voltage	0.0057	
30	Normal Voltage	0.0104	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0055	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0095	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0054	

Note:

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0096	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0141	
20	Maximum Voltage	0.0074	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0111	

Note:

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.

LTE Band 26_Part 90S Straddle

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.72	5.39	6.03	6.32	PASS

Mode	LTE Band 26_Part 90S / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.70	5.25	PASS
Mode	LTE Band 26_Part 90S / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.58	5.48	PASS
Mode	LTE Band 26_Part 90S / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.64	5.42	PASS
Mode	LTE Band 26_Part 90S / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.55	5.33	PASS