The following test report with report number FG5N0815-01K is an addendum to the RF spot check test report for FCC ID: A4RGM45K variant model GM45K.
It contains test data from FCC ID: A4RG7SWN reference model G7SWN that is referenced in the variant model GM45K RF spot check report.

FCC RADIO TEST REPORT

FCC ID	:	A4RG7SWN
Equipment	:	Phone
Model Name	:	G7SWN
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC 47 CFR Part 2, 22(H), 24(E)

The product was received on Nov. 18, 2025 and testing was performed from Nov. 18, 2025 to Mar. 27, 2026. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, 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 6
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 8
2.3 Support Unit used in test configuration and system 8
2.4 Measurement Results Explanation Example 8
2.5 Frequency List of Low/Middle/High Channels 9
3 Conducted Test Items **12**
3.1 Measuring Instruments 12
3.2 Conducted Output Power and ERP/EIRP 13
3.3 Peak-to-Average Ratio 40
3.4 Occupied Bandwidth 41
3.5 Conducted Band Edge 42
3.6 Conducted Spurious Emission 43
3.7 Frequency Stability 44
4 Radiated Test Items **45**
4.1 Measuring Instruments 45
4.2 Radiated Spurious Emission Measurement 47
5 List of Measuring Equipment **48**
6 Measurement Uncertainty **50**
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	CSE	FS
2	A2	A2-1	A2-6	A2-9	A2-12	A2-16	A2-22
5	A5	A5-1	A5-5	A5-7	A5-9	A5-12	A5-16
25	A25	A25-1	A25-6	A25-9	A25-12	A25-16	A25-22
26	A26H	A26H-1	A26H-5	A26H-7	A26H-9	A26H-12	A26H-17
CA_5B	A5B	N/A	A5B-1	A5B-4	A5B-7	A5B-13	N/A

History of this test report

Report No.	Version	Description	Issue Date
FG5N0815-01K	01	Initial issue of report	Apr. 20, 2026
FG5N0815-01K	02	Remove part 90 information	May 14, 2026
FG5N0815-01K	03	Add PAR Full Bandwidth test data	May 29, 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)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§24.232 (c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a)	Conducted Band Edge Measurement (Band 2) (Band 5) (Band 25) (Band 26)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a)	Conducted Spurious Emission (Band 2) (Band 5) (Band 25) (Band 26)	Pass	-
3.7	§2.1055 §22.355 §24.235	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §22.917 (a) §24.238 (a)	Radiated Spurious Emission (Band 2) (Band 5) (Band 25) (Band 26)	Pass	-

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, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx. **Antenna Type** WWAN: **<Ant. 0>:** ILA Antenna **<Ant. 1>:** ILA Antenna **<Ant. 2>:** IFA Antenna **<Ant. 5>:** 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**
5B041FDDW0000V	Conducted Measurement ERP/EIRP
5B111FDDQ0000B	Radiated Spurious Emission

Support band and evaluated information	
Supported band	B2, B5, B25, B26
Evaluated and Tested band	B2, B5, B25, B26
Band covered information	RSE frequency band range covers another band when the power is worse as follows: ■ B26 cover B5 (Part 22H) ■ B25 cover B2 (Part 24)

Antenna information						
Band	**Ant0**	**Ant1**	**Ant2**	**Ant5**	**Main Ant. #**	**Sub Ant. #**
B5	-4.8	-6.3			0	1
B26	-4.7	-6.3			0	1
B2	-0.2		-0.3		2	0
ENDC B2		-6.2		-2.4	1	5
B25	-0.2		-0.3		2	0
ENDC B25		-6.2		-2.4	1	5

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. 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	03CH20-HY
Test Engineer	Yuki Chen	John Chuang、David Dai、Sam Chou
Temperature (℃)	22.3~22.9	18.3~22.8
Relative Humidity (%)	53.2~55.5	63.7~71.1

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

FCC Designation No.: 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, 22(H), 24(E)
- 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
B5B	**Z with adapter**	**Y with adapter**
B25	**Y with adapter**	**Y with adapter**
B26 (22H)	**Z with adapter**	**Y with adapter**

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

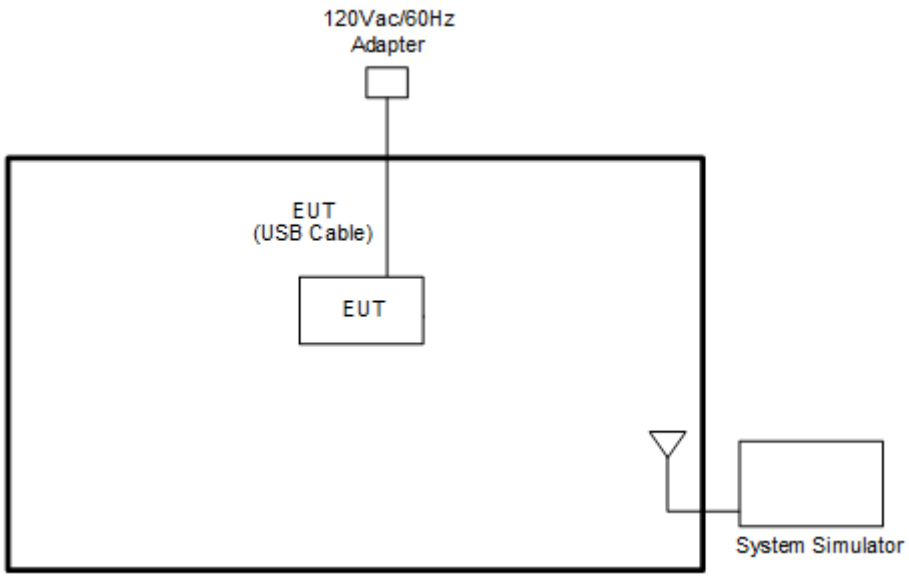
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	All	Full	M
Bandwidth	A, B, C, D	All	Full	M
CBE	A, B, C, D	Minimum	1RB	L, M, H
CSE	A	Minimum	1RB	L, M, H
Frequency Stability	A	10 MHz or less	Full	L, M
RSE	A	10 MHz or less	1RB	L, M, H

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

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

LTE Band 26 Channel and Frequency List (Part22H)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 5B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
3 + 5	PCC	Channel	20416	20501	20586
		Frequency	825.6	834.1	842.6
	SCC	Channel	20455	20540	20575
		Frequency	829.5	838.0	841.5
5 + 3	PCC	Channel	20425	20510	20595
		Frequency	826.5	835.0	843.5
	SCC	Channel	20464	20549	20634
		Frequency	830.4	838.9	847.4
5 + 10	PCC	Channel	20428	20478	20528
		Frequency	826.8	831.8	836.8
	SCC	Channel	20500	20550	20600
		Frequency	834.0	839.0	844.0
10 + 5	PCC	Channel	20450	20500	20550
		Frequency	829.0	834.0	839.0
	SCC	Channel	20522	20572	20622
		Frequency	836.2	841.2	846.2
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829.0	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844.0

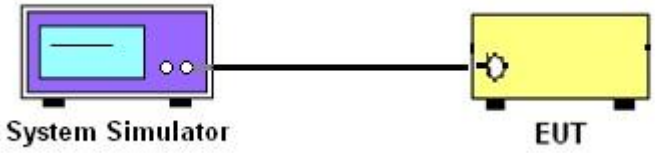
3 Conducted Test Items

3.1 Measuring Instruments

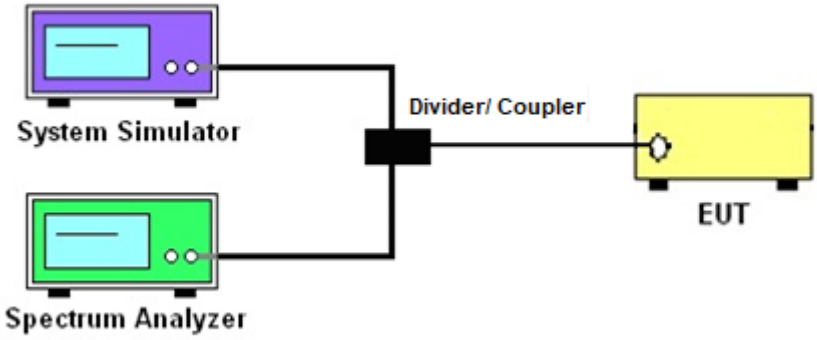
See list of measuring instruments of this test report.

3.1.1 Test Setup

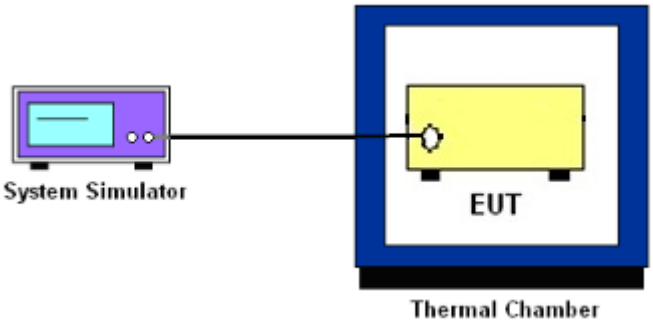
3.1.2 Conducted Output Power



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/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26 (Part 22H)

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

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 Conducted Output Power and ERP/EIRP Measurement

<LTE B2 TX0 ANT2>

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.12	24.14	24.14	24.00	0.2512
20	1	49		24.03	24.17	24.00		
20	1	99		24.22	24.30	24.12		
20	50	0		23.04	23.24	23.15		
20	50	24		23.06	23.14	23.08		
20	50	50		23.12	23.20	23.10		
20	100	0		23.09	23.18	23.12		
20	1	0	16-QAM	23.53	23.56	23.46	23.29	0.2133
20	1	49		23.43	23.55	23.40		
20	1	99		23.59	23.52	23.50		
20	1	0	64-QAM	22.34	22.34	22.35	22.18	0.1652
20	1	49		22.42	22.48	22.22		
20	1	99		22.46	22.38	22.40		
20	1	0	256-QAM	19.29	19.32	19.26	19.06	0.0805
20	1	49		19.22	19.31	19.12		
20	1	99		19.33	19.36	19.28		
15	1	0	QPSK	23.98	24.01	23.94	23.76	0.2377
15	1	37		24.01	24.00	23.89		
15	1	74		24.05	24.06	23.93		
15	36	0		22.81	22.98	22.87		
15	36	20		22.80	22.91	22.78		
15	36	39		22.91	22.94	22.89		
15	75	0		22.85	22.97	22.84		
15	1	0	16-QAM	23.26	23.48	23.28	23.18	0.2080
15	1	37		23.25	23.36	23.19		
15	1	74		23.40	23.35	23.20		
15	1	0	64-QAM	22.15	22.03	22.05	21.99	0.1581
15	1	37		22.17	22.18	21.94		
15	1	74		22.15	22.29	22.08		
15	1	0	256-QAM	19.12	19.08	19.02	18.88	0.0773
15	1	37		18.99	19.11	18.94		
15	1	74		19.08	19.18	19.03		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.97	24.07	23.92	23.79	0.2393
10	1	25		23.91	24.04	23.92		
10	1	49		24.06	24.09	23.94		
10	25	0		22.93	23.03	22.91		
10	25	12		22.86	22.98	22.89		
10	25	25		22.98	23.00	22.98		
10	50	0		22.97	22.99	22.87		
10	1	0	16-QAM	23.34	23.39	23.31	23.10	0.2042
10	1	25		23.14	23.32	23.32		
10	1	49		23.37	23.40	23.35		
10	1	0	64-QAM	22.15	22.16	22.08	21.98	0.1578
10	1	25		22.05	22.17	22.03		
10	1	49		22.06	22.28	22.09		
10	1	0	256-QAM	19.12	19.16	19.00	18.93	0.0782
10	1	25		18.96	19.10	18.93		
10	1	49		19.09	19.23	19.02		
5	1	0	QPSK	23.92	23.94	23.90	23.68	0.2333
5	1	12		23.89	23.94	23.90		
5	1	24		23.93	23.98	23.94		
5	12	0		22.86	22.97	22.83		
5	12	7		22.78	22.83	22.76		
5	12	13		22.85	22.92	22.85		
5	25	0		22.92	22.97	22.89		
5	1	0	16-QAM	23.26	23.43	23.22	23.19	0.2084
5	1	12		23.09	23.35	23.16		
5	1	24		23.22	23.49	23.29		
5	1	0	64-QAM	22.13	22.19	22.14	21.94	0.1563
5	1	12		22.17	22.04	22.05		
5	1	24		22.07	22.24	22.08		
5	1	0	256-QAM	19.08	19.05	19.00	18.78	0.0755
5	1	12		18.95	19.07	18.92		
5	1	24		18.98	19.06	19.01		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.88	23.99	23.82	23.69	0.2339
3	1	8		23.82	23.95	23.80		
3	1	14		23.91	23.91	23.87		
3	8	0		22.86	22.97	22.88		
3	8	4		22.80	22.89	22.80		
3	8	7		22.84	22.88	22.86		
3	15	0		22.84	22.91	22.87		
3	1	0	16-QAM	23.20	23.23	23.15	23.05	0.2018
3	1	8		23.16	23.35	23.04		
3	1	14		23.24	23.30	23.09		
3	1	0	64-QAM	22.06	22.21	22.08	21.99	0.1581
3	1	8		21.96	22.02	22.00		
3	1	14		22.01	22.29	22.04		
3	1	0	256-QAM	19.03	19.07	18.99	18.87	0.0771
3	1	8		19.01	19.06	18.99		
3	1	14		18.96	19.17	19.02		
1.4	1	0	QPSK	23.89	23.98	23.87	23.72	0.2355
1.4	1	3		23.87	23.98	23.84		
1.4	1	5		23.94	24.02	23.87		
1.4	3	0		23.84	23.93	23.81		
1.4	3	1		23.78	23.88	23.75		
1.4	3	3		23.79	23.89	23.80		
1.4	6	0		22.79	22.91	22.82		
1.4	1	0	16-QAM	23.13	23.24	23.08	22.94	0.1968
1.4	1	3		22.98	23.08	22.97		
1.4	1	5		23.16	23.23	23.01		
1.4	1	0	64-QAM	22.17	22.14	22.05	21.90	0.1549
1.4	1	3		22.12	22.09	21.98		
1.4	1	5		22.14	22.20	22.12		
1.4	1	0	256-QAM	19.09	19.06	18.98	18.79	0.0757
1.4	1	3		19.01	19.06	18.93		
1.4	1	5		19.05	19.09	18.97		
Limit	EIRP < 2W			Result			Pass	

<LTE B2 TX1 ANT0>

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.10	24.08	24.00	23.91	0.2460
20	1	49		24.02	24.06	24.00		
20	1	99		24.11	24.06	24.04		
20	50	0		22.99	23.11	23.05		
20	50	24		23.00	23.03	23.02		
20	50	50		23.03	23.09	23.08		
20	100	0		22.98	23.07	22.97		
20	1	0	16-QAM	23.48	23.48	23.38	23.30	0.2138
20	1	49		23.39	23.45	23.39		
20	1	99		23.50	23.35	23.36		
20	1	0	64-QAM	22.31	22.26	22.25	22.19	0.1656
20	1	49		22.21	22.23	22.13		
20	1	99		22.39	22.31	22.25		
20	1	0	256-QAM	19.30	19.18	19.21	19.1	0.0813
20	1	49		19.14	19.17	19.05		
20	1	99		19.24	19.24	19.20		
15	1	0	QPSK	24.10	24.20	24.02	24.00	0.2512
15	1	37		24.08	24.12	24.05		
15	1	74		24.16	24.14	24.07		
15	36	0		22.93	23.05	22.99		
15	36	20		22.95	23.01	22.95		
15	36	39		23.08	23.05	23.02		
15	75	0		23.05	23.04	23.01		
15	1	0	16-QAM	23.44	23.67	23.57	23.47	0.2223
15	1	37		23.48	23.52	23.25		
15	1	74		23.55	23.46	23.36		
15	1	0	64-QAM	22.26	22.31	22.22	22.14	0.1637
15	1	37		22.17	22.34	22.16		
15	1	74		22.34	22.31	22.23		
15	1	0	256-QAM	19.25	19.23	19.15	19.10	0.0813
15	1	37		19.15	19.19	19.09		
15	1	74		19.27	19.30	19.23		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.15	24.19	24.14	23.99	0.2506
10	1	25		24.10	24.11	24.05		
10	1	49		24.16	24.15	24.08		
10	25	0		23.10	23.17	23.03		
10	25	12		23.07	23.11	23.06		
10	25	25		23.14	23.17	23.11		
10	50	0		23.19	23.10	23.00		
10	1	0	16-QAM	23.59	23.53	23.50	23.39	0.2183
10	1	25		23.39	23.44	23.32		
10	1	49		23.46	23.49	23.32		
10	1	0	64-QAM	22.31	22.31	22.28	22.22	0.1667
10	1	25		22.19	22.21	22.17		
10	1	49		22.27	22.42	22.19		
10	1	0	256-QAM	19.32	19.31	19.24	19.15	0.0822
10	1	25		19.18	19.15	19.17		
10	1	49		19.22	19.35	19.18		
5	1	0	QPSK	24.13	24.11	24.06	23.93	0.2472
5	1	12		24.04	24.13	24.00		
5	1	24		24.09	24.13	24.06		
5	12	0		23.01	23.10	23.01		
5	12	7		22.94	22.95	22.94		
5	12	13		23.01	23.03	22.96		
5	25	0		23.09	23.11	23.05		
5	1	0	16-QAM	23.52	23.42	23.38	23.32	0.2148
5	1	12		23.38	23.34	23.19		
5	1	24		23.49	23.46	23.32		
5	1	0	64-QAM	22.30	22.34	22.24	22.15	0.1641
5	1	12		22.19	22.18	22.23		
5	1	24		22.33	22.35	22.28		
5	1	0	256-QAM	19.20	19.20	19.08	19.04	0.0802
5	1	12		19.19	19.19	19.05		
5	1	24		19.20	19.24	19.16		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	24.01	24.09	23.99	23.90	0.2455
3	1	8		24.06	24.04	23.93		
3	1	14		24.10	24.08	24.04		
3	8	0		23.06	23.11	23.02		
3	8	4		23.03	23.04	22.95		
3	8	7		23.05	23.02	22.95		
3	15	0		23.02	23.04	22.98		
3	1	0	16-QAM	23.44	23.43	23.29	23.25	0.2113
3	1	8		23.33	23.36	23.25		
3	1	14		23.45	23.33	23.31		
3	1	0	64-QAM	22.32	22.32	22.11	22.12	0.1629
3	1	8		22.18	22.22	22.19		
3	1	14		22.32	22.21	22.16		
3	1	0	256-QAM	19.24	19.16	19.02	19.07	0.0807
3	1	8		19.24	19.15	19.07		
3	1	14		19.27	19.27	19.13		
1.4	1	0	QPSK	24.07	24.16	24.01	23.96	0.2489
1.4	1	3		24.09	24.09	23.98		
1.4	1	5		24.10	24.13	24.03		
1.4	3	0		24.01	24.02	23.96		
1.4	3	1		24.00	23.98	23.94		
1.4	3	3		24.01	24.04	23.98		
1.4	6	0		23.01	23.01	22.96		
1.4	1	0	16-QAM	23.31	23.29	23.19	23.17	0.2075
1.4	1	3		23.29	23.24	23.22		
1.4	1	5		23.37	23.37	23.24		
1.4	1	0	64-QAM	22.35	22.28	22.22	22.18	0.1652
1.4	1	3		22.28	22.27	22.18		
1.4	1	5		22.27	22.38	22.23		
1.4	1	0	256-QAM	19.25	19.24	19.17	19.05	0.0804
1.4	1	3		19.18	19.14	19.09		
1.4	1	5		19.21	19.18	19.08		
Limit	EIRP < 2W			Result			Pass	

<LTE B5 TX0 ANT0>

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	24.40	24.36	24.39	17.45	0.0556
10	1	25		24.34	24.35	24.26		
10	1	49		24.32	24.35	24.26		
10	25	0		23.39	23.34	23.33		
10	25	12		23.34	23.27	23.25		
10	25	25		23.30	23.33	23.24		
10	50	0		23.28	23.29	23.22		
10	1	0	16-QAM	23.62	23.64	23.65	16.70	0.0468
10	1	25		23.51	23.60	23.45		
10	1	49		23.55	23.59	23.54		
10	1	0	64-QAM	22.51	22.45	22.50	15.56	0.0360
10	1	25		22.40	22.43	22.36		
10	1	49		22.37	22.43	22.41		
10	1	0	256-QAM	19.41	19.38	19.36	12.46	0.0176
10	1	25		19.39	19.40	19.28		
10	1	49		19.34	19.39	19.30		
5	1	0	QPSK	24.34	24.29	24.28	17.39	0.0548
5	1	12		24.32	24.31	24.21		
5	1	24		24.33	24.33	24.24		
5	12	0		23.30	23.24	23.19		
5	12	7		23.27	23.18	23.13		
5	12	13		23.30	23.22	23.21		
5	25	0		23.34	23.28	23.23		
5	1	0	16-QAM	23.62	23.49	23.52	16.67	0.0465
5	1	12		23.49	23.56	23.41		
5	1	24		23.50	23.58	23.48		
5	1	0	64-QAM	22.51	22.47	22.44	15.56	0.0360
5	1	12		22.44	22.42	22.33		
5	1	24		22.44	22.47	22.40		
5	1	0	256-QAM	19.47	19.34	19.32	12.52	0.0179
5	1	12		19.31	19.38	19.27		
5	1	24		19.41	19.35	19.31		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	24.28	24.26	24.21	17.35	0.0543
3	1	8		24.19	24.24	24.14		
3	1	14		24.29	24.30	24.19		
3	8	0		23.30	23.24	23.22		
3	8	4		23.23	23.20	23.17		
3	8	7		23.28	23.23	23.18		
3	15	0		23.28	23.24	23.20		
3	1	0	16-QAM	23.55	23.42	23.46	16.62	0.0459
3	1	8		23.49	23.57	23.43		
3	1	14		23.48	23.57	23.44		
3	1	0	64-QAM	22.42	22.32	22.33	15.48	0.0353
3	1	8		22.35	22.37	22.28		
3	1	14		22.38	22.43	22.27		
3	1	0	256-QAM	19.46	19.37	19.35	12.51	0.0178
3	1	8		19.32	19.37	19.29		
3	1	14		19.37	19.38	19.28		
1.4	1	0	QPSK	24.30	24.25	24.21	17.35	0.0543
1.4	1	3		24.29	24.27	24.18		
1.4	1	5		24.30	24.30	24.20		
1.4	3	0		24.28	24.19	24.14		
1.4	3	1		24.23	24.18	24.12		
1.4	3	3		24.25	24.20	24.16		
1.4	6	0		23.27	23.19	23.16		
1.4	1	0	16-QAM	23.47	23.43	23.41	16.55	0.0452
1.4	1	3		23.44	23.47	23.36		
1.4	1	5		23.50	23.50	23.41		
1.4	1	0	64-QAM	22.56	22.40	22.40	15.61	0.0364
1.4	1	3		22.45	22.43	22.33		
1.4	1	5		22.47	22.47	22.35		
1.4	1	0	256-QAM	19.43	19.33	19.27	12.48	0.0177
1.4	1	3		19.33	19.38	19.27		
1.4	1	5		19.36	19.35	19.24		
Limit	ERP < 7W			Result			Pass	

Conducted Output Power (Average power and ERI/EIRP)										
LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = -4.8 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	22.67	22.63	22.56	17.64	0.0581
10+10	1	0	1	49		14.06	14.09	14.08		
10+10	1	49	1	0		24.52	24.59	24.59		
10+10	50	0	50	0	16-QAM	21.59	21.63	21.55	16.77	0.0475
10+10	1	0	1	49		14.15	14.14	14.07		
10+10	1	49	1	0		23.72	23.68	23.72		
10+10	50	0	50	0	64-QAM	21.64	21.61	21.56	14.94	0.0312
10+10	1	0	1	49		14.38	14.26	13.83		
10+10	1	49	1	0		21.89	21.56	21.65		
10+10	50	0	50	0	256-QAM	19.62	19.65	19.61	12.88	0.0194
10+10	1	0	1	49		13.65	14.23	13.62		
10+10	1	49	1	0		19.83	19.80	19.51		
10+5	50	0	25	0	QPSK	22.63	22.57	22.54	17.79	0.0601
10+5	1	0	1	24		14.09	14.09	13.99		
10+5	1	49	1	0		24.51	24.58	24.74		
10+5	50	0	25	0	16-QAM	21.59	21.53	21.52	16.69	0.0467
10+5	1	0	1	24		14.18	14.11	14.15		
10+5	1	49	1	0		23.53	23.64	23.59		
10+5	50	0	25	0	64-QAM	21.61	21.57	21.58	14.98	0.0315
10+5	1	0	1	24		14.08	14.09	14.07		
10+5	1	49	1	0		21.53	21.93	21.53		
10+5	50	0	25	0	256-QAM	19.62	19.56	19.52	12.67	0.0185
10+5	1	0	1	24		14.08	14.21	14.12		
10+5	1	49	1	0		19.32	19.53	19.22		
5+10	25	0	50	0	QPSK	22.63	22.60	22.57	17.83	0.0607
5+10	1	0	1	49		14.15	14.12	14.01		
5+10	1	24	1	0		24.56	24.78	24.53		
5+10	25	0	50	0	16-QAM	21.61	21.62	21.56	16.79	0.0478
5+10	1	0	1	49		14.26	14.15	13.91		
5+10	1	24	1	0		23.74	23.71	23.58		
5+10	25	0	50	0	64-QAM	21.58	21.60	21.56	14.65	0.0292
5+10	1	0	1	49		13.82	14.27	14.18		
5+10	1	24	1	0		21.44	21.40	21.59		
5+10	25	0	50	0	256-QAM	19.61	19.57	19.53	12.74	0.0188
5+10	1	0	1	49		14.11	13.64	14.04		
5+10	1	24	1	0		19.69	19.47	19.56		
Limit	ERP < 7W					Result			Pass	

LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = -4.8 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+3	25	0	15	0	QPSK	24.66	24.64	24.49	17.71	0.0590
5+3	1	0	1	14		14.65	14.71	14.50		
5+3	1	24	1	0		24.52	24.58	24.19		
5+3	25	0	15	0	16-QAM	24.59	24.66	24.47	17.78	0.0600
5+3	1	0	1	14		14.37	14.76	14.86		
5+3	1	24	1	0		24.73	24.50	24.42		
5+3	25	0	15	0	64-QAM	24.67	24.61	24.45	17.89	0.0615
5+3	1	0	1	14		14.49	14.76	14.66		
5+3	1	24	1	0		24.59	24.84	24.42		
5+3	25	0	15	0	256-QAM	24.64	24.64	24.44	17.73	0.0593
5+3	1	0	1	14		14.66	14.47	14.51		
5+3	1	24	1	0		24.64	24.68	24.48		
3+5	15	0	25	0	QPSK	24.63	24.64	24.56	17.73	0.0593
3+5	1	0	1	24		14.62	14.64	14.54		
3+5	1	14	1	0		24.68	24.56	24.51		
3+5	15	0	25	0	16-QAM	24.66	24.58	24.52	17.93	0.0621
3+5	1	0	1	24		14.88	14.76	14.62		
3+5	1	14	1	0		24.88	24.64	24.49		
3+5	15	0	25	0	64-QAM	24.63	24.60	24.52	17.73	0.0593
3+5	1	0	1	24		14.78	14.88	14.59		
3+5	1	14	1	0		24.68	24.25	24.54		
3+5	15	0	25	0	256-QAM	24.66	24.66	24.52	17.87	0.0612
3+5	1	0	1	24		14.91	14.71	14.51		
3+5	1	14	1	0		24.33	24.82	24.60		
Limit	ERP < 7W					Result			Pass	

<LTE B5 TX1 ANT1>

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	24.05	24.06	24.27	15.99	0.0397
10	1	25		23.96	24.14	24.23		
10	1	49		24.10	24.24	24.44		
10	25	0		23.00	23.06	23.27		
10	25	12		22.94	23.15	23.26		
10	25	25		22.99	23.22	23.37		
10	50	0		22.95	23.10	23.29		
10	1	0	16-QAM	23.26	23.34	23.54	15.24	0.0334
10	1	25		23.17	23.34	23.49		
10	1	49		23.35	23.33	23.69		
10	1	0	64-QAM	22.13	22.15	22.35	14.13	0.0259
10	1	25		22.03	22.26	22.35		
10	1	49		22.18	22.31	22.58		
10	1	0	256-QAM	19.14	19.16	19.32	10.97	0.0125
10	1	25		19.02	19.19	19.31		
10	1	49		19.14	19.26	19.42		
5	1	0	QPSK	24.05	24.08	24.25	15.97	0.0395
5	1	12		23.91	24.10	24.34		
5	1	24		23.94	24.23	24.42		
5	12	0		22.98	23.03	23.24		
5	12	7		22.82	23.02	23.25		
5	12	13		22.82	23.12	23.37		
5	25	0		22.93	23.11	23.36		
5	1	0	16-QAM	23.26	23.28	23.44	15.20	0.0331
5	1	12		23.06	23.28	23.53		
5	1	24		23.22	23.35	23.65		
5	1	0	64-QAM	22.19	22.24	22.36	14.10	0.0257
5	1	12		22.02	22.24	22.51		
5	1	24		22.05	22.39	22.55		
5	1	0	256-QAM	19.16	19.11	19.40	11.04	0.0127
5	1	12		19.09	19.19	19.32		
5	1	24		19.07	19.30	19.49		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.99	24.06	24.36	15.95	0.0394
3	1	8		23.85	24.05	24.34		
3	1	14		23.89	24.19	24.40		
3	8	0		22.97	23.03	23.38		
3	8	4		22.88	23.02	23.34		
3	8	7		22.85	23.10	23.36		
3	15	0		22.93	23.07	23.36		
3	1	0	16-QAM	23.22	23.34	23.66	15.21	0.0332
3	1	8		23.11	23.37	23.66		
3	1	14		23.18	23.47	23.66		
3	1	0	64-QAM	22.11	22.12	22.52	14.08	0.0256
3	1	8		21.99	22.10	22.49		
3	1	14		22.02	22.30	22.53		
3	1	0	256-QAM	19.12	19.21	19.40	11.00	0.0126
3	1	8		19.03	19.15	19.41		
3	1	14		19.08	19.28	19.45		
1.4	1	0	QPSK	24.00	24.06	24.41	15.96	0.0394
1.4	1	3		23.96	24.08	24.36		
1.4	1	5		23.98	24.11	24.39		
1.4	3	0		23.92	23.98	24.33		
1.4	3	1		23.89	23.99	24.30		
1.4	3	3		23.91	24.05	24.31		
1.4	6	0		22.91	23.00	23.33		
1.4	1	0	16-QAM	23.20	23.17	23.60	15.15	0.0327
1.4	1	3		23.08	23.17	23.48		
1.4	1	5		23.12	23.29	23.55		
1.4	1	0	64-QAM	22.15	22.18	22.54	14.09	0.0256
1.4	1	3		22.04	22.19	22.44		
1.4	1	5		22.11	22.20	22.52		
1.4	1	0	256-QAM	19.11	19.12	19.37	10.99	0.0126
1.4	1	3		19.06	19.13	19.40		
1.4	1	5		19.07	19.16	19.43		
Limit	ERP < 7W			Result			Pass	

Conducted Output Power (Average power and ERI/EIRP)										
LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = -6.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	22.09	22.11	22.10	15.61	0.0364
10+10	1	0	1	49		13.62	13.62	13.65		
10+10	1	49	1	0		23.98	24.04	24.06		
10+10	50	0	50	0	16-QAM	21.07	21.11	21.11	14.72	0.0296
10+10	1	0	1	49		13.73	13.70	13.71		
10+10	1	49	1	0		23.15	23.17	23.15		
10+10	50	0	50	0	64-QAM	21.10	21.12	21.10	12.76	0.0189
10+10	1	0	1	49		13.68	13.61	13.69		
10+10	1	49	1	0		21.00	21.03	21.21		
10+10	50	0	50	0	256-QAM	19.07	19.11	19.11	10.69	0.0117
10+10	1	0	1	49		13.64	13.60	13.61		
10+10	1	49	1	0		18.93	18.96	19.14		
10+5	50	0	25	0	QPSK	22.07	22.09	22.15	15.67	0.0369
10+5	1	0	1	24		13.61	13.65	13.69		
10+5	1	49	1	0		24.01	24.06	24.12		
10+5	50	0	25	0	16-QAM	21.03	21.08	21.11	14.77	0.0300
10+5	1	0	1	24		13.66	13.72	13.79		
10+5	1	49	1	0		23.15	23.22	23.22		
10+5	50	0	25	0	64-QAM	21.05	21.07	21.12	12.69	0.0186
10+5	1	0	1	24		13.66	13.70	13.73		
10+5	1	49	1	0		21.01	21.14	21.11		
10+5	50	0	25	0	256-QAM	19.05	19.06	19.10	10.65	0.0116
10+5	1	0	1	24		13.58	13.61	13.66		
10+5	1	49	1	0		18.92	19.08	19.07		
5+10	25	0	50	0	QPSK	22.08	22.12	22.20	15.62	0.0365
5+10	1	0	1	49		13.60	13.67	13.67		
5+10	1	24	1	0		23.99	24.00	24.07		
5+10	25	0	50	0	16-QAM	21.08	21.14	21.15	14.69	0.0294
5+10	1	0	1	49		13.64	13.73	13.74		
5+10	1	24	1	0		23.14	23.09	23.09		
5+10	25	0	50	0	64-QAM	21.08	21.14	21.16	12.71	0.0187
5+10	1	0	1	49		13.64	13.66	13.78		
5+10	1	24	1	0		20.96	21.03	21.15		
5+10	25	0	50	0	256-QAM	19.09	19.13	19.15	10.7	0.0117
5+10	1	0	1	49		13.59	13.65	13.68		
5+10	1	24	1	0		18.95	18.99	19.08		
Limit	ERP < 3W					Result			Pass	

LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = -6.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+3	25	0	15	0	QPSK	23.93	24.01	24.14	15.74	0.0375
5+3	1	0	1	14		14.07	14.13	14.21		
5+3	1	24	1	0		23.92	24.00	24.19		
5+3	25	0	15	0	16-QAM	23.95	24.01	24.15	15.81	0.0381
5+3	1	0	1	14		14.20	14.22	14.29		
5+3	1	24	1	0		23.95	24.04	24.26		
5+3	25	0	15	0	64-QAM	23.94	24.00	24.15	15.78	0.0378
5+3	1	0	1	14		14.13	14.19	14.23		
5+3	1	24	1	0		23.96	24.00	24.23		
5+3	25	0	15	0	256-QAM	23.94	24.03	24.18	15.77	0.0378
5+3	1	0	1	14		14.03	14.12	14.20		
5+3	1	24	1	0		23.93	24.04	24.22		
3+5	15	0	25	0	QPSK	23.95	24.03	24.19	15.74	0.0375
3+5	1	0	1	24		14.07	14.16	14.21		
3+5	1	14	1	0		23.91	23.93	24.05		
3+5	15	0	25	0	16-QAM	23.96	24.04	24.17	15.72	0.0373
3+5	1	0	1	24		14.10	14.24	14.27		
3+5	1	14	1	0		23.97	23.95	24.07		
3+5	15	0	25	0	64-QAM	23.96	24.03	24.18	15.73	0.0374
3+5	1	0	1	24		14.13	14.14	14.23		
3+5	1	14	1	0		23.91	23.93	24.14		
3+5	15	0	25	0	256-QAM	23.97	24.05	24.18	15.73	0.0374
3+5	1	0	1	24		14.06	14.08	14.21		
3+5	1	14	1	0		23.93	23.96	24.10		
Limit	ERP < 3W					Result			Pass	

<LTE B25 TX0 ANT2>

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.02	24.10	24.02	23.91	0.2460
20	1	49		23.98	24.15	23.93		
20	1	99		24.17	24.21	24.15		
20	50	0		23.05	23.21	23.06		
20	50	24		23.01	23.09	22.98		
20	50	50		23.19	23.17	23.05		
20	100	0		23.08	23.10	23.04		
20	1	0	16-QAM	23.40	23.35	23.39	23.22	0.2099
20	1	49		23.37	23.31	23.40		
20	1	99		23.46	23.52	23.46		
20	1	0	64-QAM	22.34	22.33	22.24	22.09	0.1618
20	1	49		22.37	22.35	22.16		
20	1	99		22.33	22.33	22.39		
20	1	0	256-QAM	19.25	19.25	19.18	19.03	0.0800
20	1	49		19.21	19.22	19.12		
20	1	99		19.33	19.27	19.26		
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.88	23.95	23.84	23.69	0.2339
15	1	37		23.92	23.93	23.83		
15	1	74		23.98	23.99	23.98		
15	36	0		22.76	22.91	22.80		
15	36	20		22.72	22.84	22.75		
15	36	39		22.84	22.92	22.84		
15	75	0		22.84	22.86	22.84		
15	1	0	16-QAM	23.17	23.33	23.18	23.16	0.2070
15	1	37		23.18	23.32	23.12		
15	1	74		23.46	23.29	23.25		
15	1	0	64-QAM	22.09	22.07	22.01	21.87	0.1538
15	1	37		21.95	22.15	21.99		
15	1	74		22.05	22.17	22.08		
15	1	0	256-QAM	19.05	19.05	18.93	18.76	0.0752
15	1	37		18.94	19.02	18.92		
15	1	74		19.06	19.02	19.05		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.86	23.95	23.92	23.70	0.2344
10	1	25		23.84	23.98	23.91		
10	1	49		23.95	24.00	23.99		
10	25	0		22.86	23.00	22.86		
10	25	12		22.83	22.94	22.88		
10	25	25		22.88	22.98	22.90		
10	50	0		22.82	22.92	22.83		
10	1	0	16-QAM	23.24	23.29	23.18	23.14	0.2061
10	1	25		23.18	23.44	23.13		
10	1	49		23.33	23.43	23.25		
10	1	0	64-QAM	22.08	22.06	22.11	21.86	0.1535
10	1	25		21.88	22.04	21.99		
10	1	49		22.12	22.06	22.16		
10	1	0	256-QAM	19.05	19.08	18.92	18.82	0.0762
10	1	25		18.94	19.04	18.90		
10	1	49		19.12	19.04	19.10		
5	1	0	QPSK	23.86	23.88	23.88	23.68	0.2333
5	1	12		23.81	23.97	23.83		
5	1	24		23.89	23.98	23.96		
5	12	0		22.78	22.91	22.88		
5	12	7		22.72	22.82	22.78		
5	12	13		22.78	22.90	22.82		
5	25	0		22.83	22.90	22.89		
5	1	0	16-QAM	23.12	23.42	23.25	23.12	0.2051
5	1	12		22.98	23.17	23.14		
5	1	24		23.26	23.39	23.24		
5	1	0	64-QAM	22.13	22.15	22.01	21.96	0.1570
5	1	12		22.10	22.03	22.03		
5	1	24		22.17	22.26	22.17		
5	1	0	256-QAM	19.06	19.04	18.90	18.79	0.0757
5	1	12		18.99	19.02	18.88		
5	1	24		18.98	19.09	18.93		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.82	23.91	23.80	23.69	0.2339
3	1	8		23.75	23.90	23.80		
3	1	14		23.81	23.99	23.91		
3	8	0		22.81	22.87	22.86		
3	8	4		22.73	22.82	22.76		
3	8	7		22.78	22.86	22.82		
3	15	0		22.77	22.85	22.82		
3	1	0	16-QAM	23.14	23.30	23.06	23.06	0.2023
3	1	8		23.07	23.28	23.11		
3	1	14		23.08	23.36	23.23		
3	1	0	64-QAM	22.06	22.07	21.92	21.82	0.1521
3	1	8		21.99	22.00	21.95		
3	1	14		22.09	22.06	22.12		
3	1	0	256-QAM	18.97	19.07	18.96	18.77	0.0753
3	1	8		19.01	18.98	18.94		
3	1	14		19.05	19.06	18.95		
1.4	1	0	QPSK	23.82	23.92	23.87	23.65	0.2317
1.4	1	3		23.79	23.95	23.87		
1.4	1	5		23.81	23.93	23.95		
1.4	3	0		23.75	23.85	23.85		
1.4	3	1		23.73	23.82	23.84		
1.4	3	3		23.75	23.86	23.87		
1.4	6	0		22.75	22.83	22.80		
1.4	1	0	16-QAM	23.04	23.18	23.08	22.88	0.1941
1.4	1	3		23.00	23.01	22.95		
1.4	1	5		23.07	23.06	23.07		
1.4	1	0	64-QAM	22.07	22.15	22.03	21.89	0.1545
1.4	1	3		22.05	22.07	22.05		
1.4	1	5		22.05	22.19	22.06		
1.4	1	0	256-QAM	19.00	19.02	18.99	18.72	0.0745
1.4	1	3		18.96	19.00	18.94		
1.4	1	5		18.91	18.99	18.94		
Limit	EIRP < 2W			Result			Pass	

<LTE B25 TX1 ANT0>

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.03	24.03	23.97	23.83	0.2415
20	1	49		23.97	24.03	23.92		
20	1	99		24.01	24.00	23.96		
20	50	0		23.01	23.03	22.95		
20	50	24		23.00	22.99	22.93		
20	50	50		23.00	23.00	22.94		
20	100	0		22.96	23.02	22.89		
20	1	0	16-QAM	23.41	23.38	23.30	23.36	0.2168
20	1	49		23.27	23.42	23.24		
20	1	99		23.56	23.37	23.28		
20	1	0	64-QAM	22.20	22.30	22.17	22.21	0.1663
20	1	49		22.30	22.30	22.14		
20	1	99		22.41	22.24	22.30		
20	1	0	256-QAM	19.23	19.21	19.14	19.04	0.0802
20	1	49		19.14	19.18	19.00		
20	1	99		19.24	19.19	19.10		
15	1	0	QPSK	24.07	24.09	24.01	23.94	0.2477
15	1	37		24.02	24.11	24.00		
15	1	74		24.14	24.11	24.10		
15	36	0		22.98	23.02	22.91		
15	36	20		22.93	22.95	22.93		
15	36	39		23.02	23.04	22.96		
15	75	0		23.03	23.05	23.01		
15	1	0	16-QAM	23.34	23.50	23.36	23.33	0.2153
15	1	37		23.33	23.44	23.27		
15	1	74		23.48	23.47	23.53		
15	1	0	64-QAM	22.23	22.23	22.25	22.05	0.1603
15	1	37		22.21	22.21	22.11		
15	1	74		22.21	22.22	22.17		
15	1	0	256-QAM	19.21	19.18	19.05	19.01	0.0796
15	1	37		19.14	19.16	19.08		
15	1	74		19.21	19.19	19.13		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.10	24.16	24.07	23.96	0.2489
10	1	25		24.06	24.06	24.03		
10	1	49		24.11	24.11	24.16		
10	25	0		23.08	23.08	23.07		
10	25	12		22.96	23.05	23.04		
10	25	25		23.08	23.11	23.02		
10	50	0		23.04	23.07	22.99		
10	1	0	16-QAM	23.39	23.45	23.35	23.30	0.2138
10	1	25		23.44	23.46	23.35		
10	1	49		23.46	23.47	23.50		
10	1	0	64-QAM	22.29	22.22	22.18	22.09	0.1618
10	1	25		22.19	22.14	22.13		
10	1	49		22.26	22.29	22.22		
10	1	0	256-QAM	19.26	19.14	19.16	19.06	0.0805
10	1	25		19.15	19.13	19.08		
10	1	49		19.25	19.23	19.14		
5	1	0	QPSK	24.02	24.07	24.02	23.90	0.2455
5	1	12		24.01	24.04	23.98		
5	1	24		24.07	24.10	24.07		
5	12	0		23.00	23.00	23.04		
5	12	7		22.93	22.92	22.88		
5	12	13		22.98	23.01	22.95		
5	25	0		23.09	22.96	23.00		
5	1	0	16-QAM	23.40	23.56	23.33	23.36	0.2168
5	1	12		23.38	23.40	23.25		
5	1	24		23.38	23.43	23.36		
5	1	0	64-QAM	22.24	22.29	22.19	22.15	0.1641
5	1	12		22.24	22.35	22.11		
5	1	24		22.30	22.35	22.13		
5	1	0	256-QAM	19.20	19.18	19.06	19.00	0.0794
5	1	12		19.15	19.18	19.05		
5	1	24		19.16	19.17	19.10		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	24.04	24.03	23.96	23.87	0.2438
3	1	8		23.91	23.98	23.96		
3	1	14		24.05	24.07	24.03		
3	8	0		22.96	22.99	22.97		
3	8	4		22.92	22.97	22.92		
3	8	7		22.99	22.99	22.93		
3	15	0		22.96	22.97	22.92		
3	1	0	16-QAM	23.37	23.29	23.22	23.26	0.2118
3	1	8		23.23	23.46	23.29		
3	1	14		23.32	23.39	23.23		
3	1	0	64-QAM	22.37	22.23	22.20	22.17	0.1648
3	1	8		22.22	22.20	22.12		
3	1	14		22.24	22.30	22.23		
3	1	0	256-QAM	19.11	19.21	19.07	19.04	0.0802
3	1	8		19.24	19.18	18.94		
3	1	14		19.24	19.16	19.02		
1.4	1	0	QPSK	24.05	24.08	24.02	23.88	0.2443
1.4	1	3		24.02	24.06	24.01		
1.4	1	5		24.01	24.03	24.05		
1.4	3	0		23.97	23.96	23.95		
1.4	3	1		23.92	23.90	23.91		
1.4	3	3		23.96	23.95	23.95		
1.4	6	0		22.97	22.96	22.94		
1.4	1	0	16-QAM	23.18	23.20	23.18	23.04	0.2014
1.4	1	3		23.17	23.19	23.18		
1.4	1	5		23.24	23.20	23.17		
1.4	1	0	64-QAM	22.33	22.21	22.16	22.14	0.1637
1.4	1	3		22.20	22.24	22.12		
1.4	1	5		22.34	22.26	22.20		
1.4	1	0	256-QAM	19.15	19.13	19.11	18.96	0.0787
1.4	1	3		19.14	19.16	19.08		
1.4	1	5		19.15	19.12	19.06		
Limit	EIRP < 2W			Result			Pass	

<LTE B26 TX0 ANT0>

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	24.42	24.48	24.35	17.63	0.0579
15	1	37		24.31	24.12	24.23		
15	1	74		24.31	24.33	24.22		
15	36	0		23.26	23.41	23.19		
15	36	20		23.16	23.20	23.11		
15	36	39		23.19	23.30	23.11		
15	75	0		23.20	23.29	23.16		
15	1	0	16-QAM	23.54	23.65	23.51	16.80	0.0479
15	1	37		23.57	23.63	23.45		
15	1	74		23.49	23.47	23.44		
15	1	0	64-QAM	22.48	22.64	22.42	15.79	0.0379
15	1	37		22.38	22.34	22.33		
15	1	74		22.37	22.51	22.29		
15	1	0	256-QAM	19.49	19.46	19.38	12.74	0.0188
15	1	37		19.45	19.36	19.33		
15	1	74		19.40	19.59	19.36		
10	1	0	QPSK	24.50	24.39	24.31	17.65	0.0582
10	1	25		24.43	24.40	24.20		
10	1	49		24.35	24.25	24.18		
10	25	0		23.47	23.38	23.29		
10	25	12		23.30	23.36	23.20		
10	25	25		23.38	23.32	23.18		
10	50	0		23.38	23.31	23.18		
10	1	0	16-QAM	23.72	23.59	23.55	16.87	0.0486
10	1	25		23.67	23.67	23.43		
10	1	49		23.66	23.45	23.44		
10	1	0	64-QAM	22.61	22.47	22.42	15.76	0.0377
10	1	25		22.43	22.52	22.34		
10	1	49		22.49	22.37	22.29		
10	1	0	256-QAM	19.60	19.45	19.45	12.75	0.0188
10	1	25		19.49	19.48	19.35		
10	1	49		19.50	19.51	19.35		
Limit	ERP < 7W			Result			Pass	

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	MidGPe	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.29	24.44	24.19	17.59	0.0574
5	1	12		24.38	24.28	24.12		
5	1	24		24.32	24.22	24.17		
5	12	0		23.31	23.32	23.17		
5	12	7		23.23	23.17	23.08		
5	12	13		23.22	23.28	23.13		
5	25	0		23.29	23.19	23.18		
5	1	0	16-QAM	23.67	23.63	23.50	16.82	0.0481
5	1	12		23.43	23.55	23.30		
5	1	24		23.53	23.47	23.50		
5	1	0	64-QAM	22.65	22.52	22.37	15.80	0.0380
5	1	12		22.44	22.45	22.37		
5	1	24		22.55	22.46	22.32		
5	1	0	256-QAM	19.54	19.60	19.37	12.75	0.0188
5	1	12		19.45	19.36	19.32		
5	1	24		19.43	19.40	19.34		
3	1	0	QPSK	24.41	24.38	24.15	17.56	0.0570
3	1	8		24.29	24.21	24.07		
3	1	14		24.27	24.36	24.14		
3	8	0		23.25	23.17	23.13		
3	8	4		23.30	23.10	23.08		
3	8	7		23.38	23.20	23.11		
3	15	0		23.22	23.22	23.12		
3	1	0	16-QAM	23.57	23.51	23.41	16.77	0.0475
3	1	8		23.49	23.43	23.37		
3	1	14		23.54	23.62	23.39		
3	1	0	64-QAM	22.41	22.39	22.28	15.66	0.0368
3	1	8		22.48	22.33	22.22		
3	1	14		22.51	22.40	22.27		
3	1	0	256-QAM	19.47	19.52	19.34	12.68	0.0185
3	1	8		19.46	19.43	19.35		
3	1	14		19.53	19.36	19.31		
Limit	ERP < 7W			Result			Pass	

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	MidGPe	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.40	24.33	24.14	17.55	0.0569
1.4	1	3		24.22	24.20	24.10		
1.4	1	5		24.24	24.27	24.14		
1.4	3	0		24.28	24.29	24.07		
1.4	3	1		24.21	24.18	24.05		
1.4	3	3		24.30	24.22	24.08		
1.4	6	0		23.29	23.26	23.08		
1.4	1	0	16-QAM	23.61	23.51	23.36	16.76	0.0474
1.4	1	3		23.39	23.36	23.20		
1.4	1	5		23.55	23.44	23.28		
1.4	1	0	64-QAM	22.52	22.53	22.26	15.68	0.0370
1.4	1	3		22.46	22.30	22.27		
1.4	1	5		22.45	22.38	22.30		
1.4	1	0	256-QAM	19.49	19.55	19.38	12.71	0.0187
1.4	1	3		19.43	19.35	19.31		
1.4	1	5		19.56	19.45	19.34		
Limit	ERP < 7W			Result			Pass	

<LTE B26 TX1 ANT1>

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	24.25	23.83	24.22	15.98	0.0396
15	1	37		24.09	24.11	24.24		
15	1	74		24.31	24.03	24.43		
15	36	0		23.08	22.94	23.18		
15	36	20		22.97	23.06	23.17		
15	36	39		23.13	22.79	23.22		
15	75	0		23.02	22.84	23.21		
15	1	0	16-QAM	23.22	23.33	23.50	15.16	0.0328
15	1	37		23.26	23.24	23.46		
15	1	74		23.42	23.30	23.61		
15	1	0	64-QAM	22.12	22.00	22.38	14.07	0.0255
15	1	37		22.20	22.27	22.32		
15	1	74		22.38	21.93	22.52		
15	1	0	256-QAM	19.15	18.84	19.28	11.02	0.0126
15	1	37		19.13	18.89	19.30		
15	1	74		19.32	18.95	19.47		
10	1	0	QPSK	23.98	24.15	24.38	15.97	0.0395
10	1	25		24.04	24.13	24.32		
10	1	49		24.05	24.17	24.42		
10	25	0		22.90	23.10	23.35		
10	25	12		22.90	23.08	23.32		
10	25	25		22.97	23.27	23.39		
10	50	0		23.04	23.08	23.32		
10	1	0	16-QAM	23.32	23.18	23.56	15.25	0.0335
10	1	25		23.26	23.35	23.60		
10	1	49		23.22	23.49	23.70		
10	1	0	64-QAM	22.01	22.14	22.49	14.15	0.0260
10	1	25		22.15	22.18	22.51		
10	1	49		22.07	22.30	22.60		
10	1	0	256-QAM	18.86	19.16	19.40	11.04	0.0127
10	1	25		18.92	19.22	19.34		
10	1	49		19.01	19.31	19.49		
Limit	ERP < 7W			Result			Pass	

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	MidGPe	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.84	24.11	24.30	15.96	0.0394
5	1	12		23.87	24.07	24.31		
5	1	24		23.87	24.09	24.41		
5	12	0		23.02	22.97	23.32		
5	12	7		22.87	22.94	23.26		
5	12	13		22.83	23.15	23.34		
5	25	0		22.97	23.01	23.36		
5	1	0	16-QAM	23.13	23.43	23.56	15.25	0.0335
5	1	12		23.23	23.33	23.49		
5	1	24		23.15	23.38	23.70		
5	1	0	64-QAM	21.97	22.12	22.49	14.10	0.0257
5	1	12		22.02	22.20	22.46		
5	1	24		22.19	22.42	22.55		
5	1	0	256-QAM	18.89	19.05	19.35	11.03	0.0127
5	1	12		18.99	19.06	19.40		
5	1	24		18.97	19.25	19.48		
3	1	0	QPSK	23.97	24.10	24.34	15.93	0.0392
3	1	8		23.90	23.96	24.28		
3	1	14		23.89	24.21	24.38		
3	8	0		22.97	23.00	23.33		
3	8	4		22.84	23.03	23.26		
3	8	7		22.85	23.09	23.31		
3	15	0		22.94	22.98	23.32		
3	1	0	16-QAM	23.22	23.24	23.56	15.23	0.0333
3	1	8		23.10	23.30	23.58		
3	1	14		23.05	23.26	23.68		
3	1	0	64-QAM	22.04	22.13	22.47	14.02	0.0252
3	1	8		22.09	22.10	22.42		
3	1	14		22.02	22.16	22.46		
3	1	0	256-QAM	18.99	19.11	19.42	10.99	0.0126
3	1	8		18.86	19.06	19.42		
3	1	14		19.07	19.10	19.44		
Limit	ERP < 7W			Result			Pass	

Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	MidGPe	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.78	24.15	24.35	15.94	0.0393
1.4	1	3		23.86	24.06	24.37		
1.4	1	5		23.82	24.18	24.39		
1.4	3	0		23.78	23.98	24.29		
1.4	3	1		23.68	23.92	24.30		
1.4	3	3		23.89	24.11	24.33		
1.4	6	0		22.93	22.96	23.33		
1.4	1	0	16-QAM	23.05	23.36	23.50	15.05	0.0320
1.4	1	3		23.02	23.10	23.48		
1.4	1	5		23.01	23.28	23.46		
1.4	1	0	64-QAM	21.97	22.33	22.44	14.06	0.0255
1.4	1	3		22.01	22.25	22.48		
1.4	1	5		22.00	22.20	22.51		
1.4	1	0	256-QAM	18.91	19.15	19.42	10.98	0.0125
1.4	1	3		18.75	19.15	19.43		
1.4	1	5		18.84	19.15	19.43		
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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(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.

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 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 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)

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

24.235

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

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.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±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.

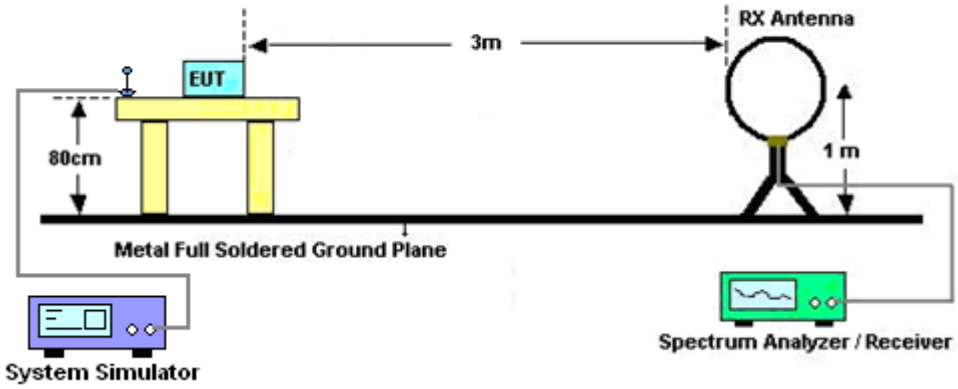
4 Radiated Test Items

4.1 Measuring Instruments

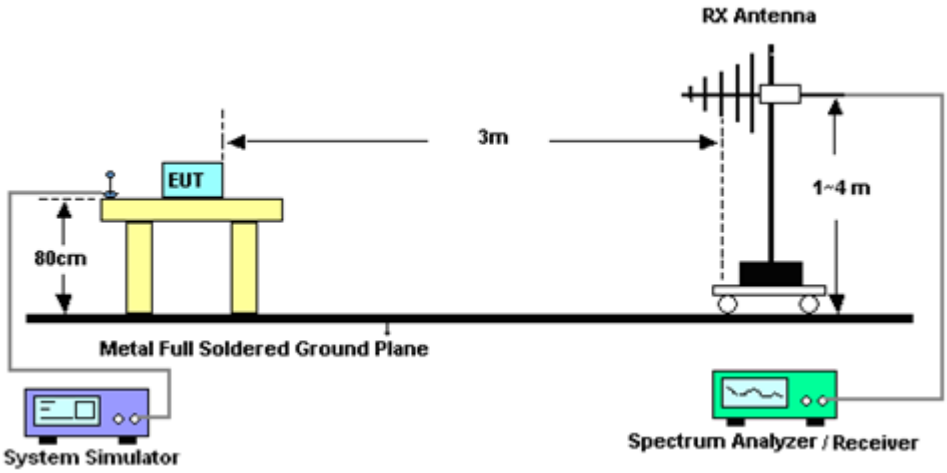
See list of measuring instruments of this test report.

4.1.1 Test Setup

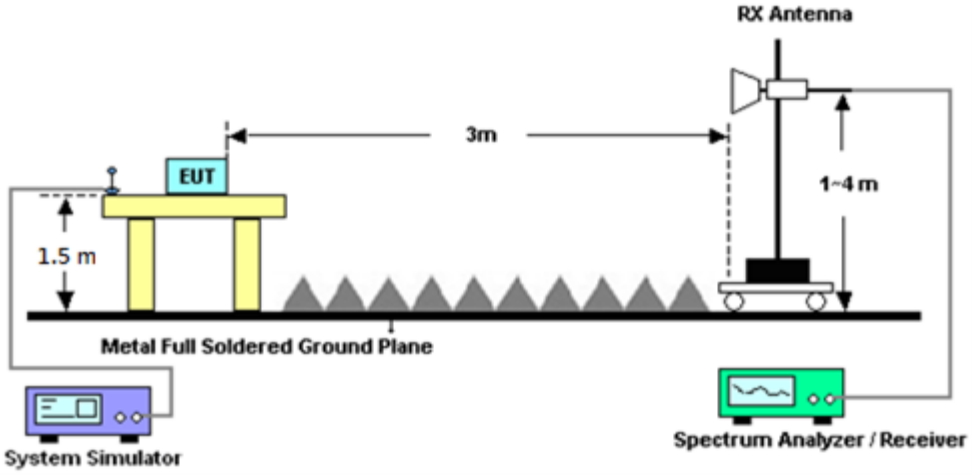
For radiated test below 30MHz



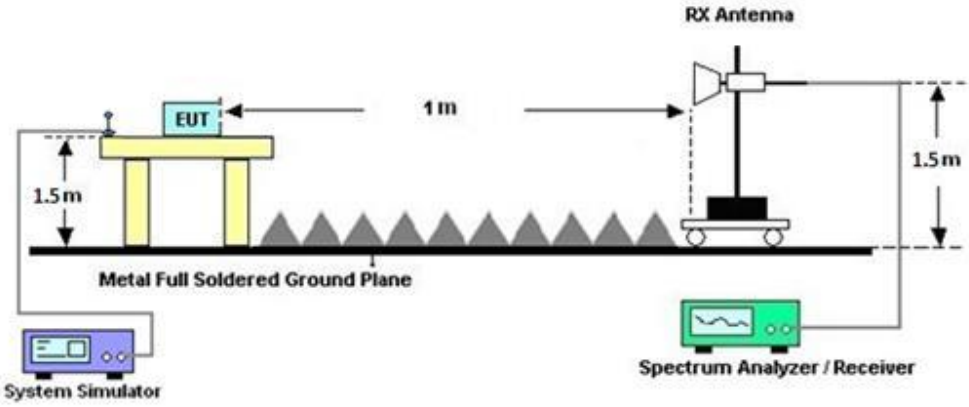
For radiated test from 30MHz to 1GHz



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.

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
EMI Test Receiver	Keysight	N9038B	MY62210111	N/A	Aug. 29, 2025	Dec. 05, 2025~ Mar. 24, 2026	Aug. 28, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Dec. 05, 2025~ Dec. 10, 2025	Dec. 17, 2025	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Dec. 11, 2025~ Mar. 24, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Dec. 05, 2025~ Mar. 24, 2026	May. 25, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 25, 2025	Dec. 05, 2025~ Mar. 24, 2026	Aug. 24, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Dec. 05, 2025~ Mar. 24, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 05, 2025~ Mar. 24, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 05, 2025~ Mar. 24, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY54200485	N/A	Aug. 27, 2025	Dec. 05, 2025~ Dec. 09, 2026	Aug. 26, 2026	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 10, 2025	Dec. 10, 2025~ Mar. 24, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	55606 & 08	30MHz~1GHz	Nov. 26, 2025	Dec. 05, 2025~ Mar. 24, 2026	Nov. 25, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Dec. 05, 2025~ Mar. 24, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jul. 02, 2025	Dec. 05, 2025~ Mar. 24, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Dec. 05, 2025~ Mar. 24, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 31, 2024	Dec. 05, 2025~ Dec. 29, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Dec. 30, 2025~ Mar. 24, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Dec. 05, 2025~ Mar. 24, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jul. 02, 2025	Dec. 05, 2025~ Mar. 24, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Dec. 05, 2025~ Mar. 24, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 31, 2024	Dec. 05, 2025~ Dec. 29, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Dec. 30, 2025~ Mar. 24, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Dec. 05, 2025~ Mar. 24, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804015/2,804027/2	N/A	Jan. 16, 2025	Dec. 05, 2025~ Jan. 14, 2026	Jan. 15, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804015/2,804027/2	N/A	Jan. 15, 2026	Jan. 15, 2025~ Mar. 24, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Dec. 05, 2025~ Mar. 24, 2026	Oct. 20, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Dec. 05, 2025~ Mar. 24, 2026	N/A	Radiation (03CH20-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	Nov. 18, 2025~ May. 27, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Nov. 18, 2025~ May. 27, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18GHz	Oct. 16, 2025	Nov. 18, 2025~ May. 27, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Nov. 18, 2025~ May. 27, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May. 12, 2025	Nov. 18, 2025~ Feb. 10, 2026	May. 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Nov. 18, 2025~ May. 27, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Nov. 18, 2025~ May. 27, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03,2025	Nov. 18, 2025~ Feb. 10, 2026	Mar. 02,2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 04,2026	May. 25, 2026~ May. 27, 2026	Mar. 03,2027	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))	6.50 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.70 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.70 dB

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

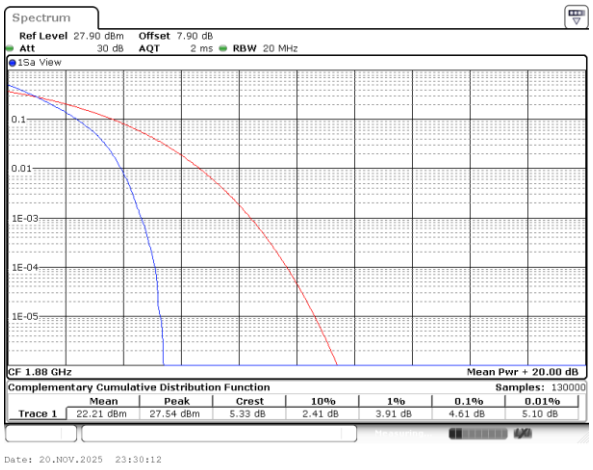
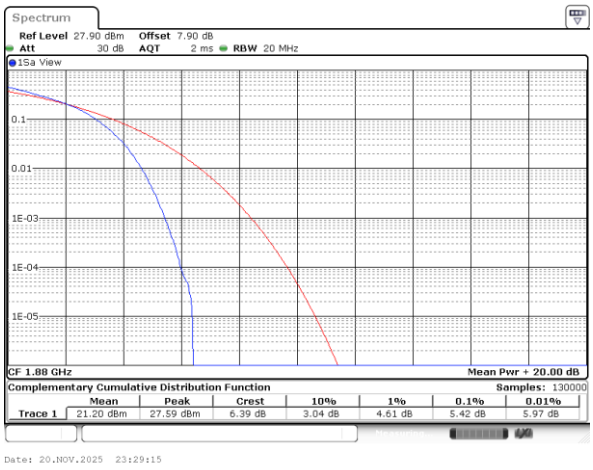
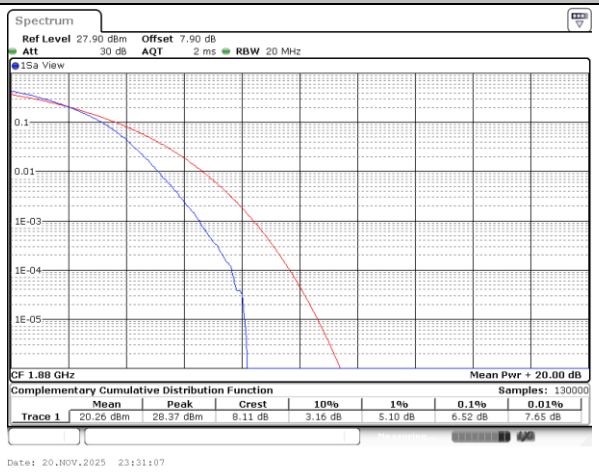
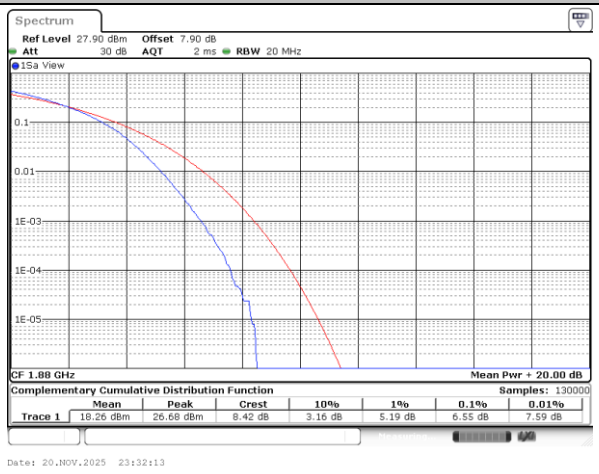
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.20 dB

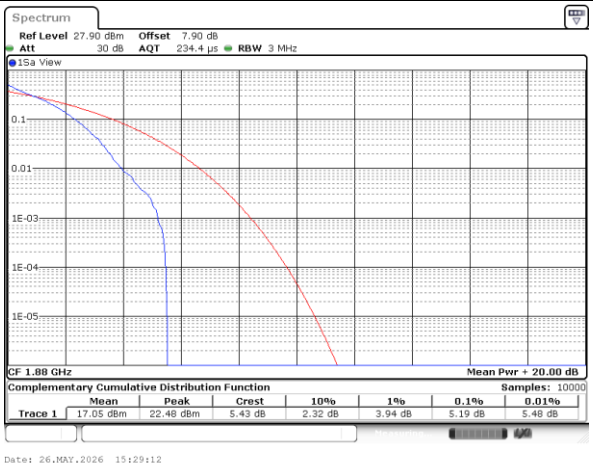
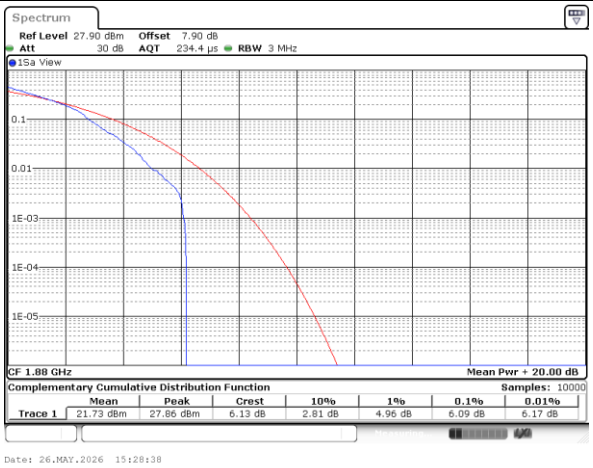
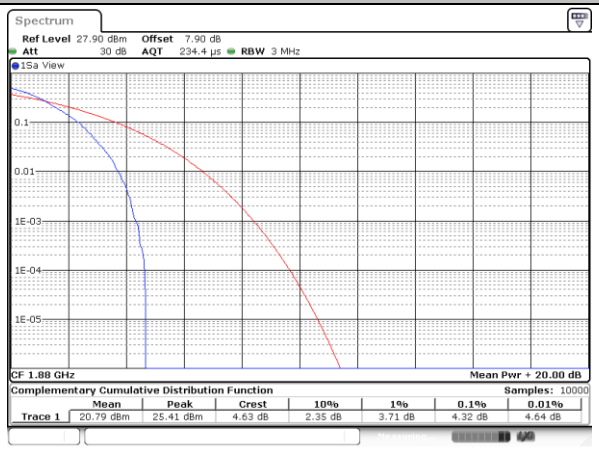
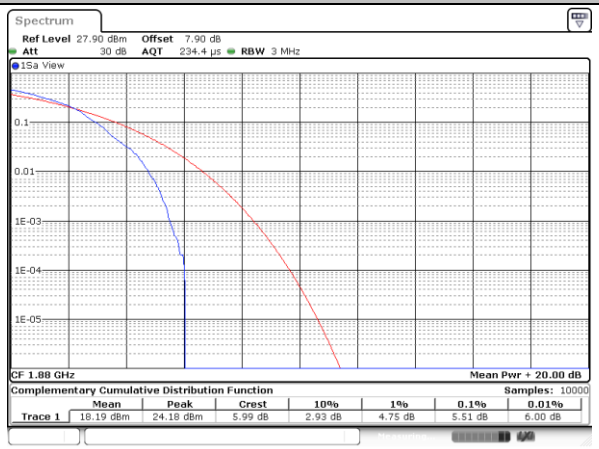
LTE Band 2

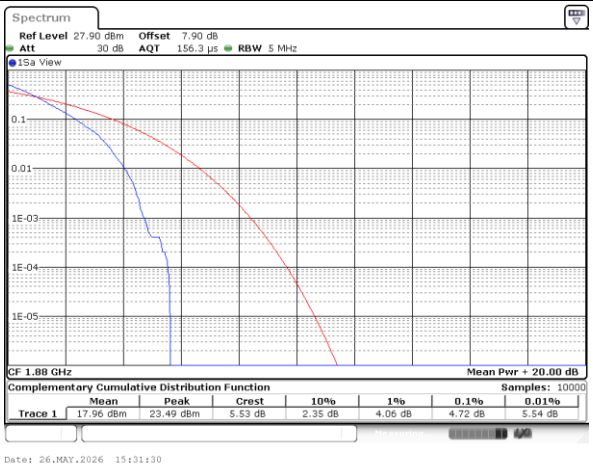
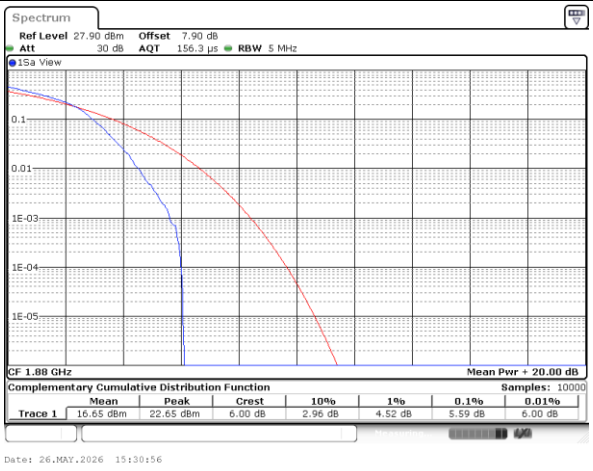
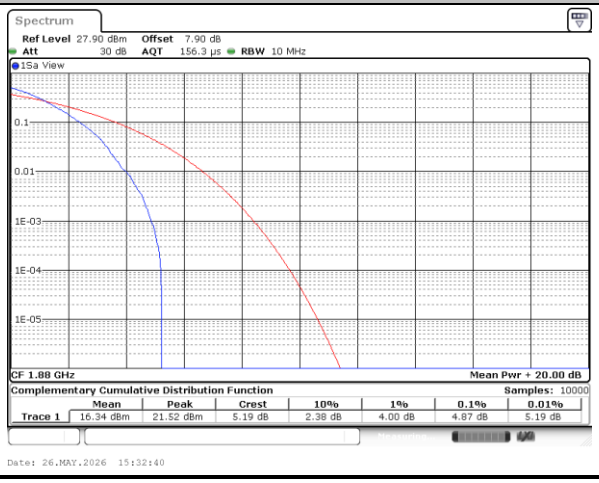
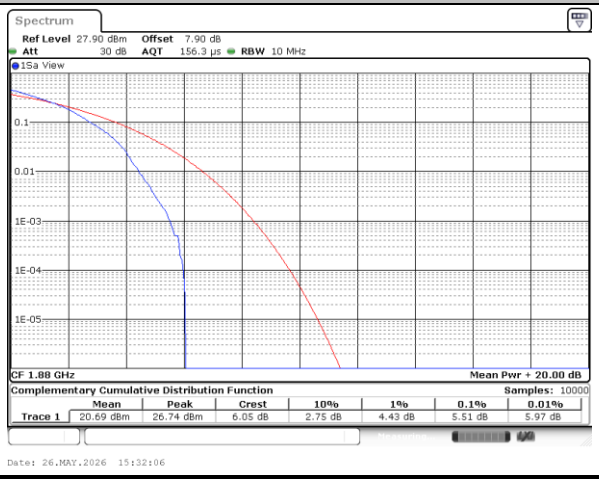
Peak-to-Average Ratio

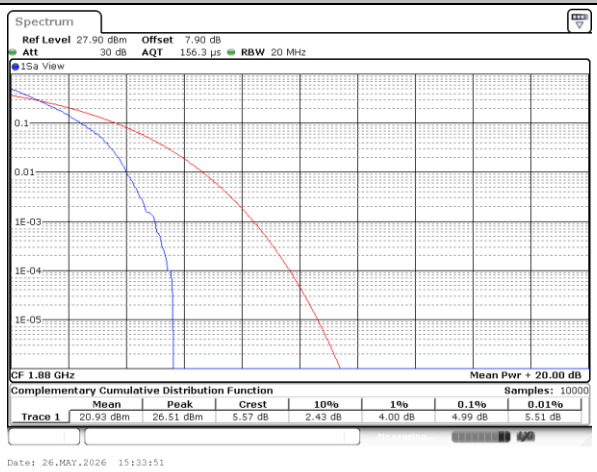
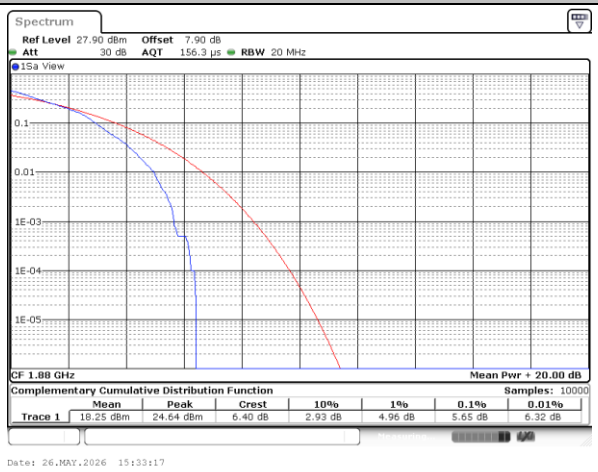
Mode	LTE Band 2 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.42	6.52	6.55	PASS

Mode	LTE Band 2 / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.19	6.09	PASS
Mode	LTE Band 2 / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.32	5.51	PASS
Mode	LTE Band 2 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.72	5.59	PASS
Mode	LTE Band 2 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.87	5.51	PASS
Mode	LTE Band 2 / 15MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.99	5.65	PASS

LTE Band 2 / 20MHz / QPSK	LTE Band 2 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 2 / 20MHz / 64QAM	LTE Band 2 / 20MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 2 / 1.4MHz / QPSK	LTE Band 2 / 1.4MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 2 / 3MHz / QPSK	LTE Band 2 / 3MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 2 / 5MHz / QPSK	LTE Band 2 / 5MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 2 / 10MHz / QPSK	LTE Band 2 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

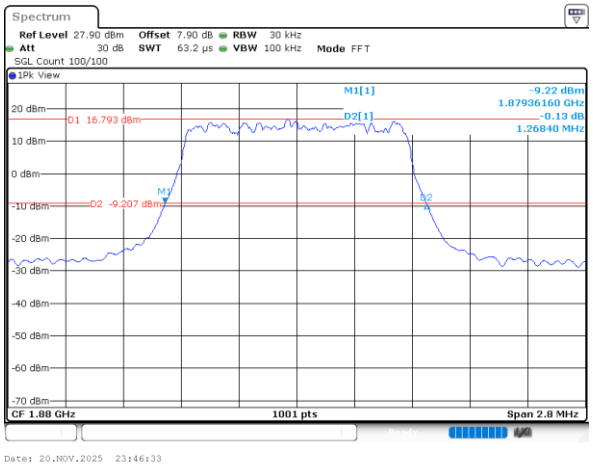
LTE Band 2	
LTE Band 2 / 15MHz / QPSK	LTE Band 2 / 15MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

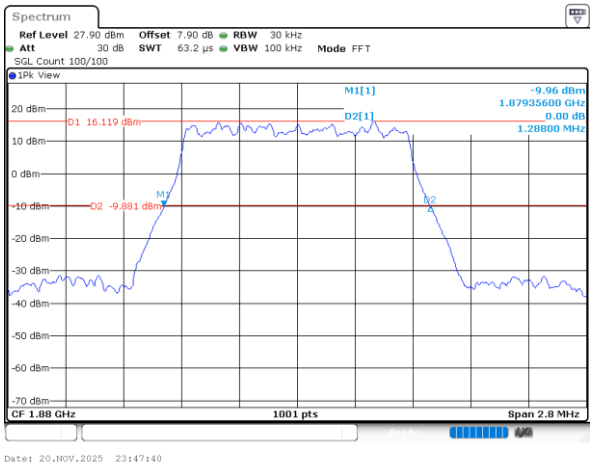
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.26	1.28	3.01	3.01	4.90	4.89	9.88	9.90	14.46	14.34	19.00	19.20

LTE Band 2

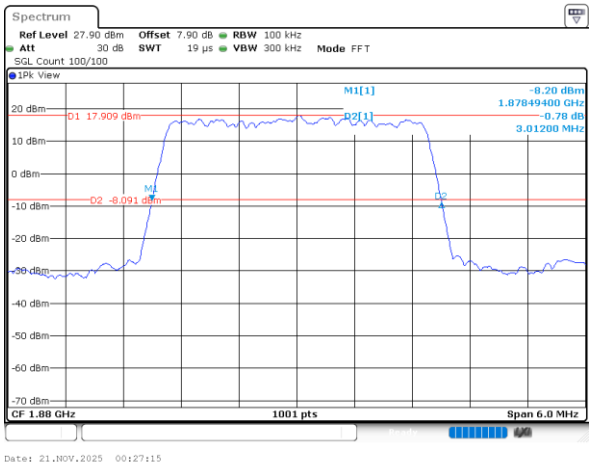
Middle Channel / 1.4MHz / QPSK



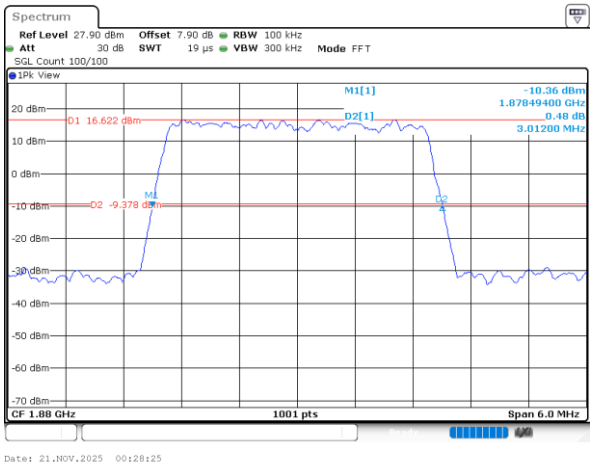
Middle Channel / 1.4MHz / 16QAM



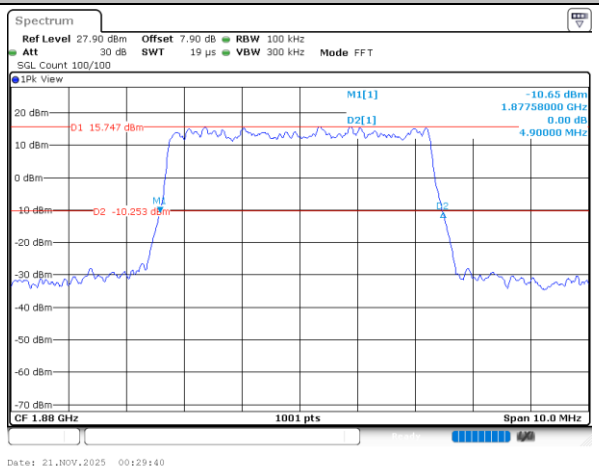
Middle Channel / 3MHz / QPSK



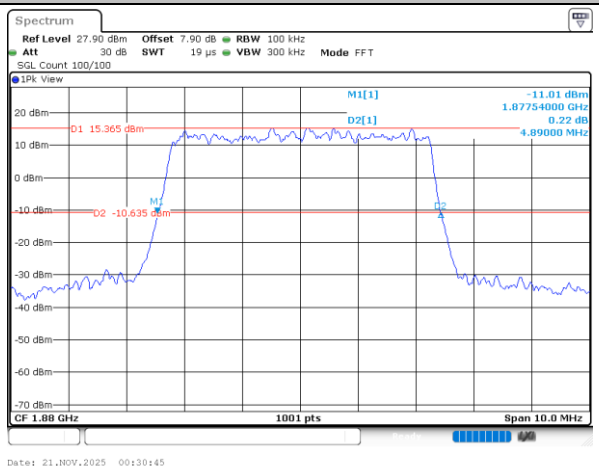
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK

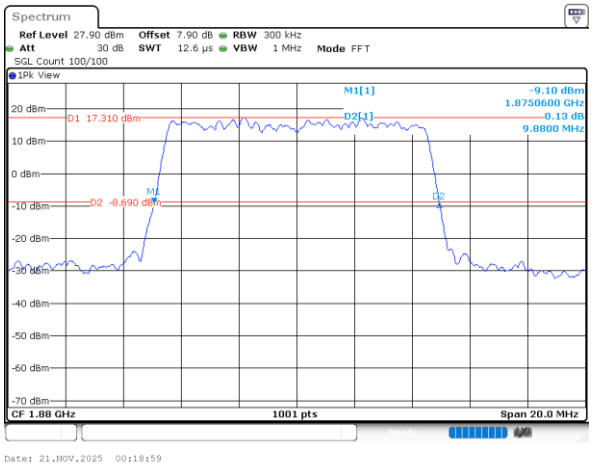


Middle Channel / 5MHz / 16QAM

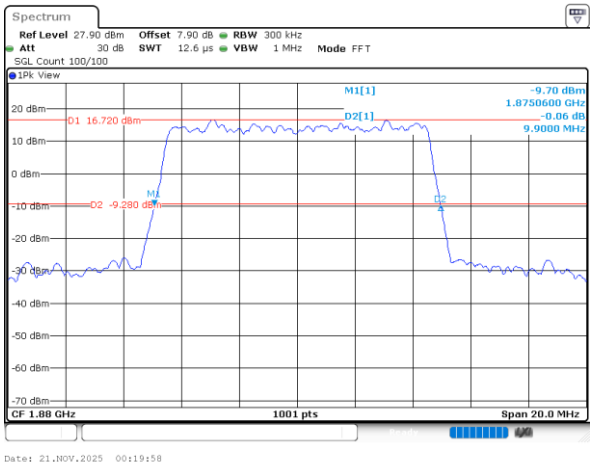


LTE Band 2

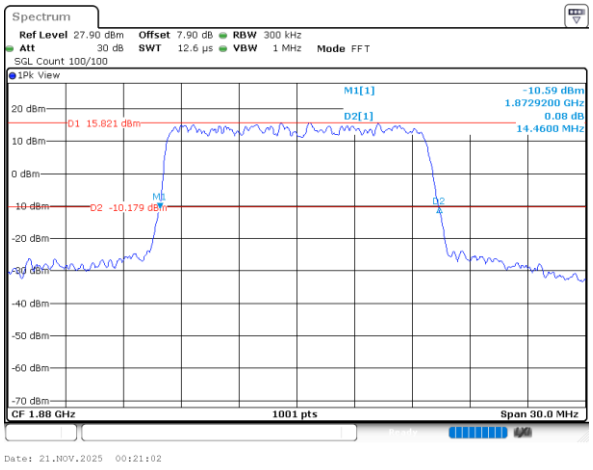
Middle Channel / 10MHz / QPSK



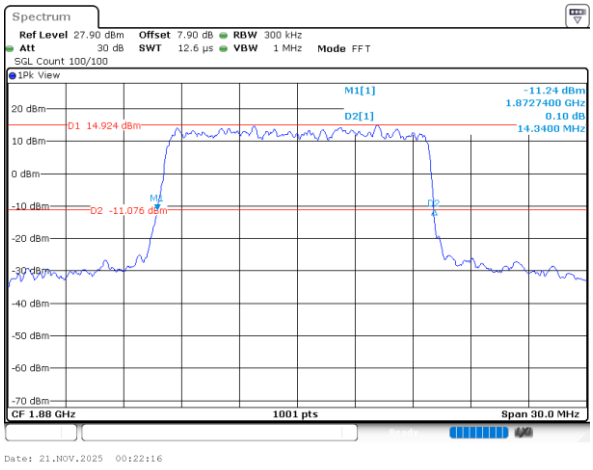
Middle Channel / 10MHz / 16QAM



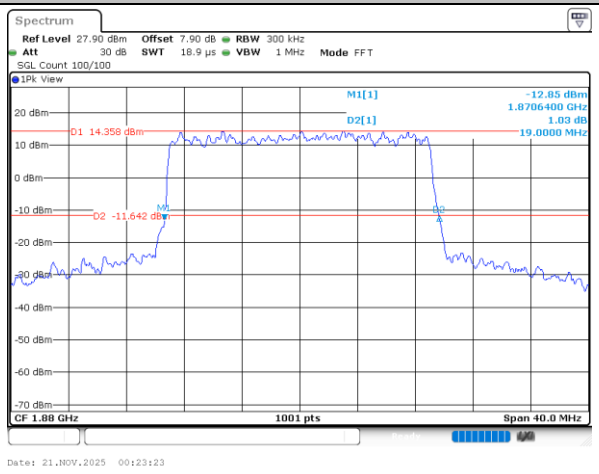
Middle Channel / 15MHz / QPSK



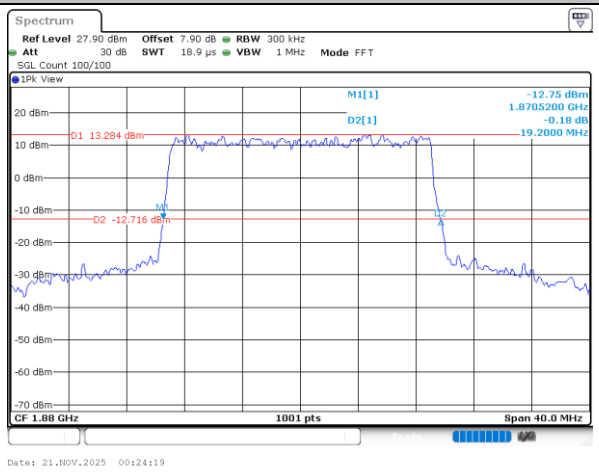
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

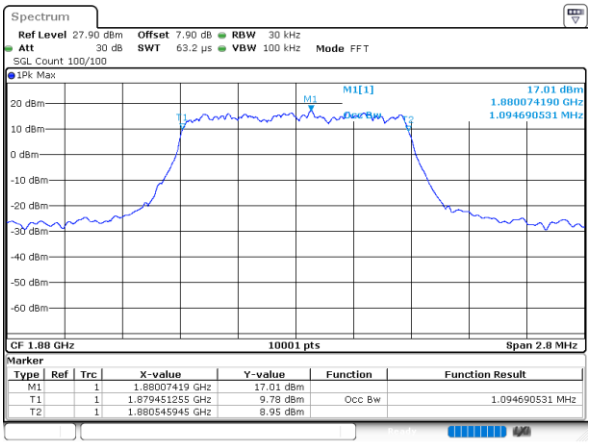


Occupied Bandwidth

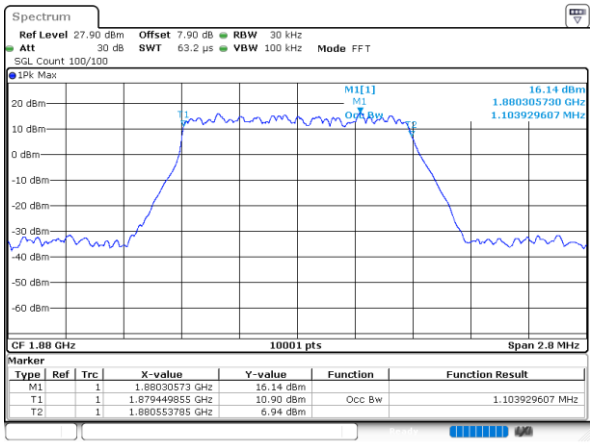
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.73	2.70	4.47	4.47	9.04	9.03	13.43	13.39	17.82	17.80

LTE Band 2

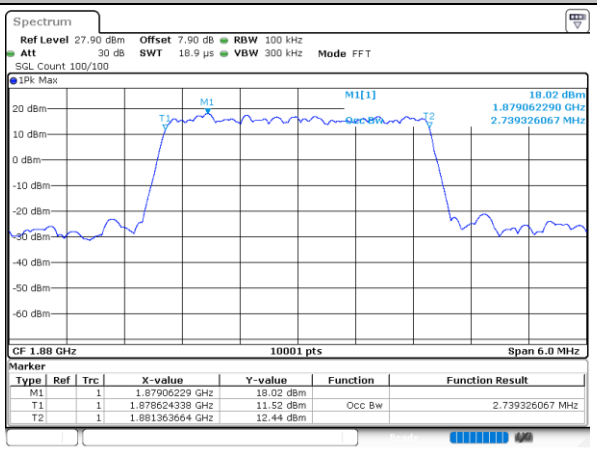
Middle Channel / 1.4MHz / QPSK



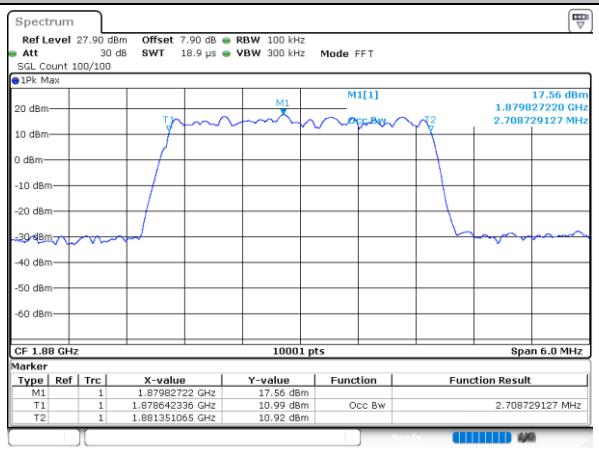
Middle Channel / 1.4MHz / 16QAM



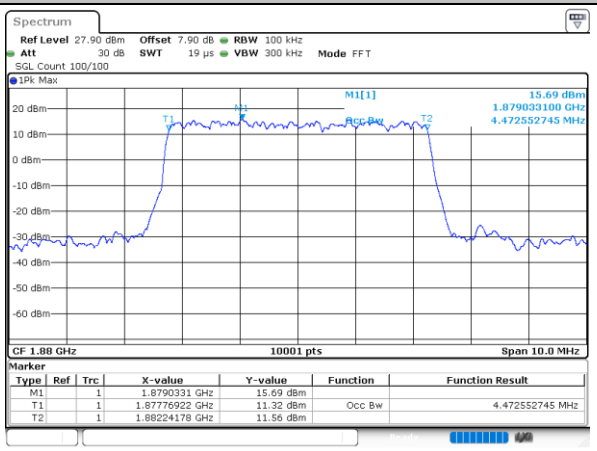
Middle Channel / 3MHz / QPSK



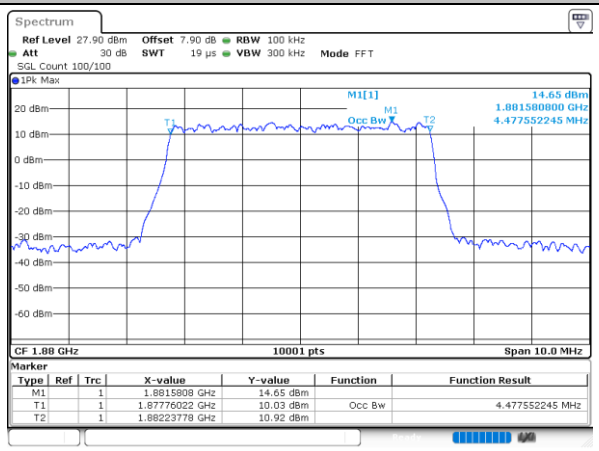
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK

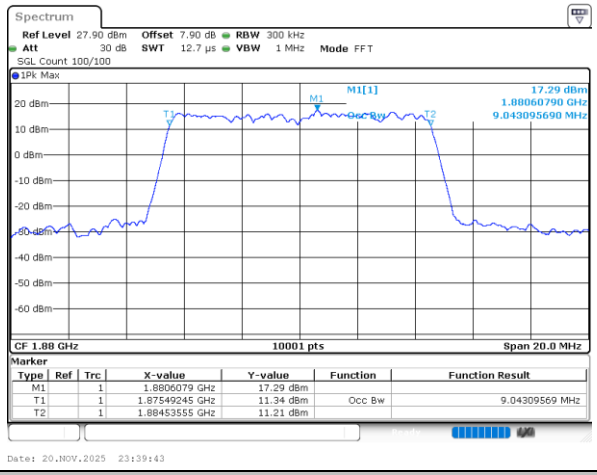


Middle Channel / 5MHz / 16QAM

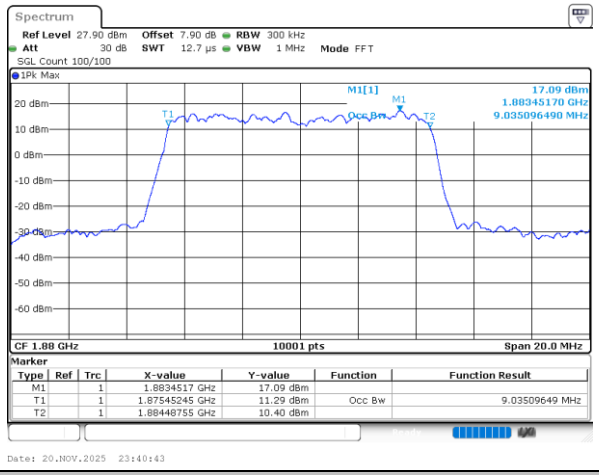


LTE Band 2

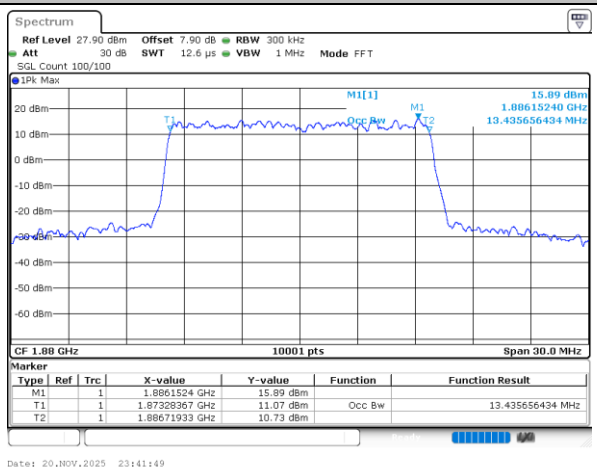
Middle Channel / 10MHz / QPSK



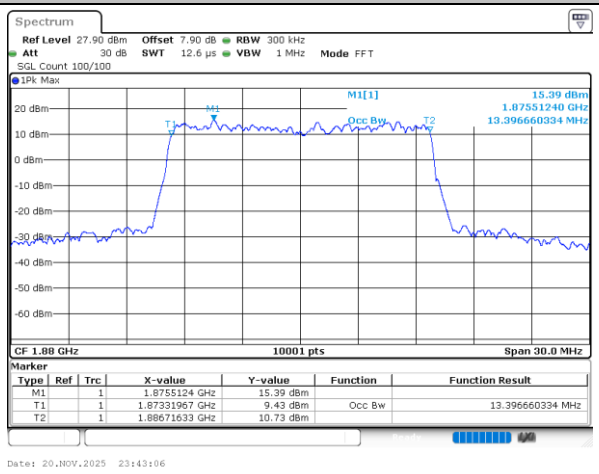
Middle Channel / 10MHz / 16QAM



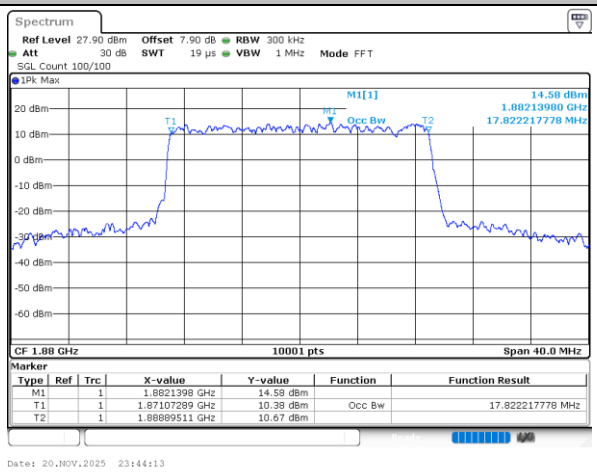
Middle Channel / 15MHz / QPSK



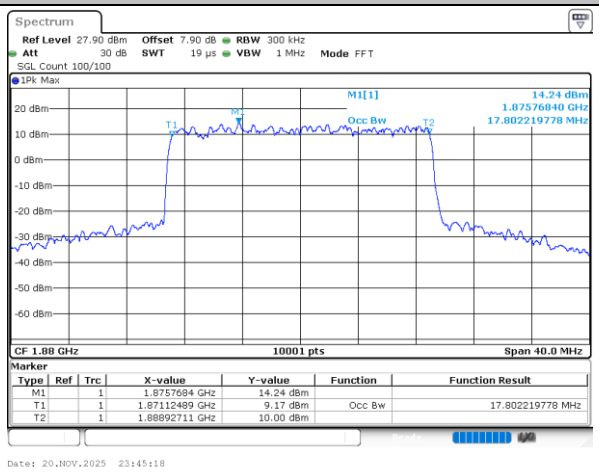
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



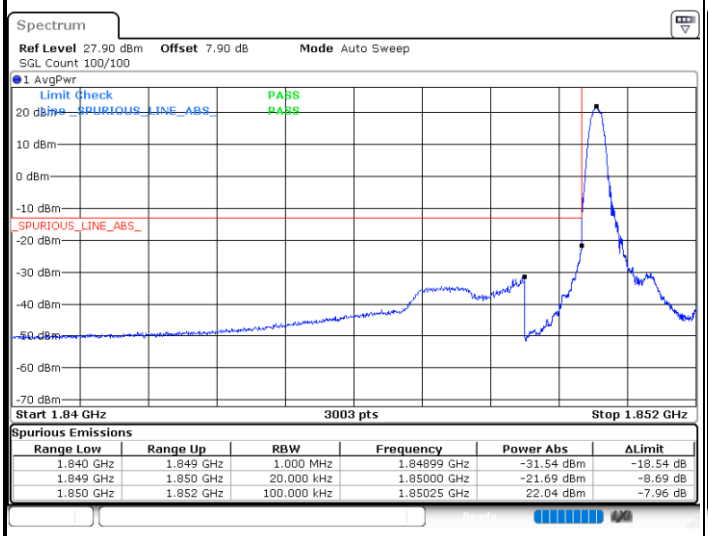
Middle Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-31.54 dBm	-18.54 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-21.69 dBm	-8.69 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85025 GHz	22.04 dBm	-7.96 dB

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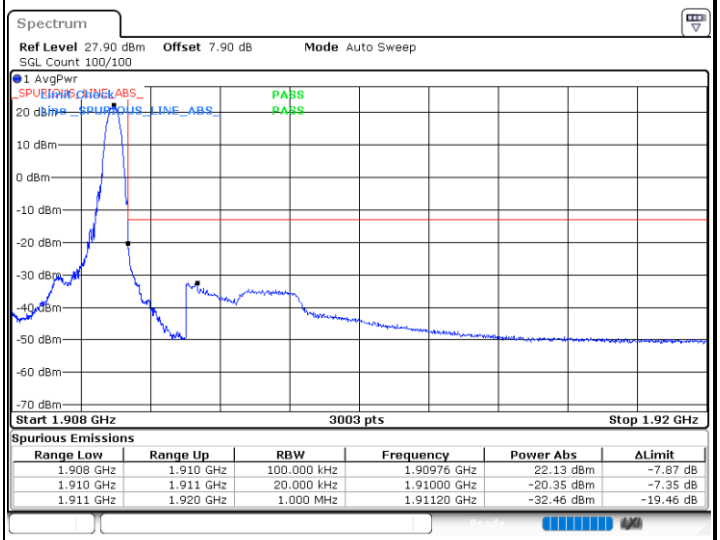
Highest Band Edge / 1RB

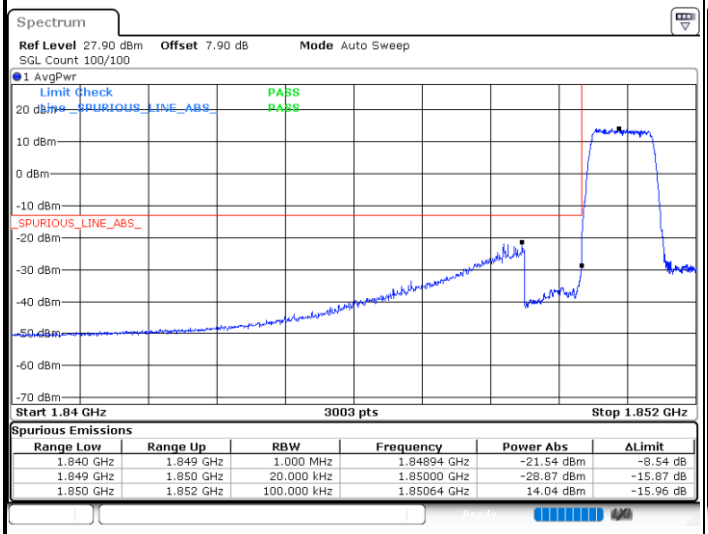


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	22.13 dBm	-7.87 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-20.35 dBm	-7.35 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91120 GHz	-32.46 dBm	-19.46 dB

Date: 20.NOV.2025 22:33:28

Lowest Band Edge / Full RB

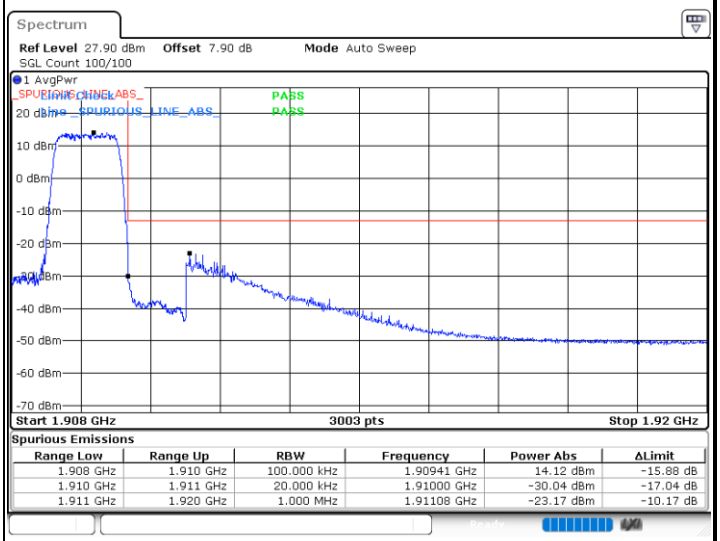


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84894 GHz	-21.54 dBm	-8.54 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-28.87 dBm	-15.87 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85064 GHz	14.04 dBm	-15.96 dB

Date: 20.NOV.2025 22:31:46

Highest Band Edge / Full RB



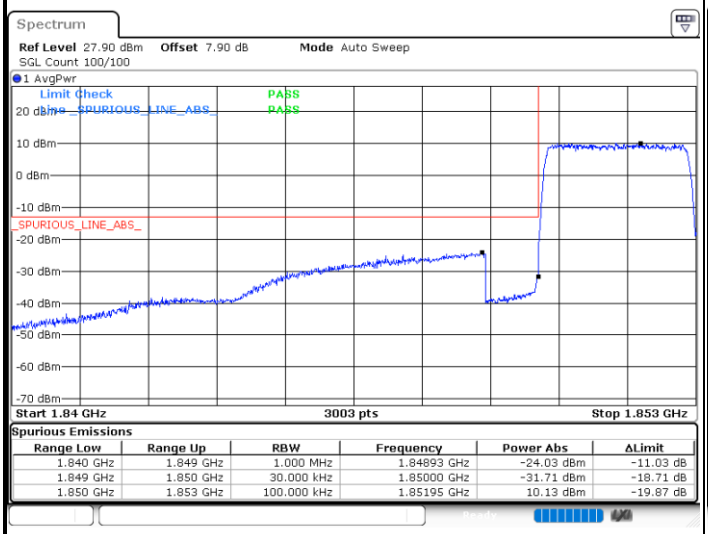
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90941 GHz	14.12 dBm	-15.88 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-30.04 dBm	-17.04 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-23.17 dBm	-10.17 dB

Date: 20.NOV.2025 22:35:00

LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / Full RB

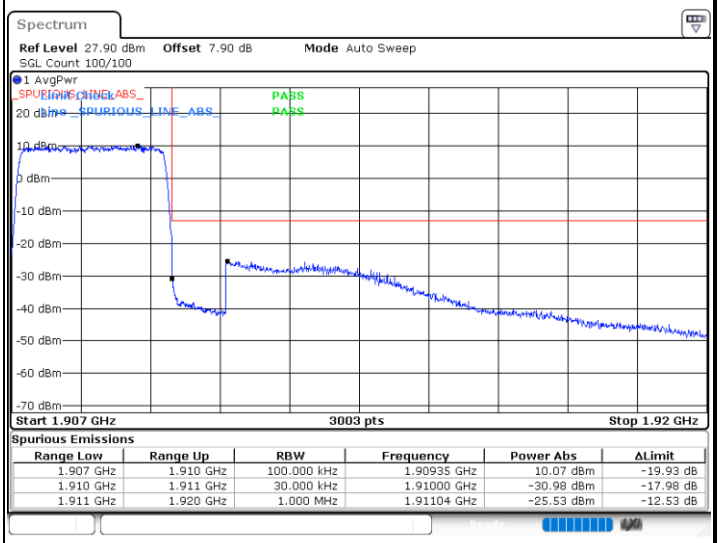


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84893 GHz	-24.03 dBm	-11.03 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-31.71 dBm	-18.71 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85195 GHz	10.13 dBm	-19.87 dB

Date: 20.NOV.2025 22:38:03

Highest Band Edge / Full RB



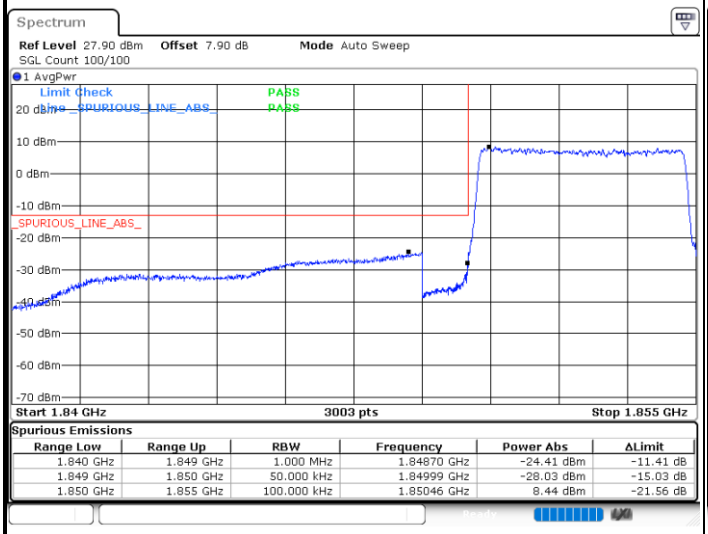
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90935 GHz	10.07 dBm	-19.93 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-30.98 dBm	-17.98 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91104 GHz	-25.53 dBm	-12.53 dB

Date: 20.NOV.2025 22:39:35

LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / Full RB

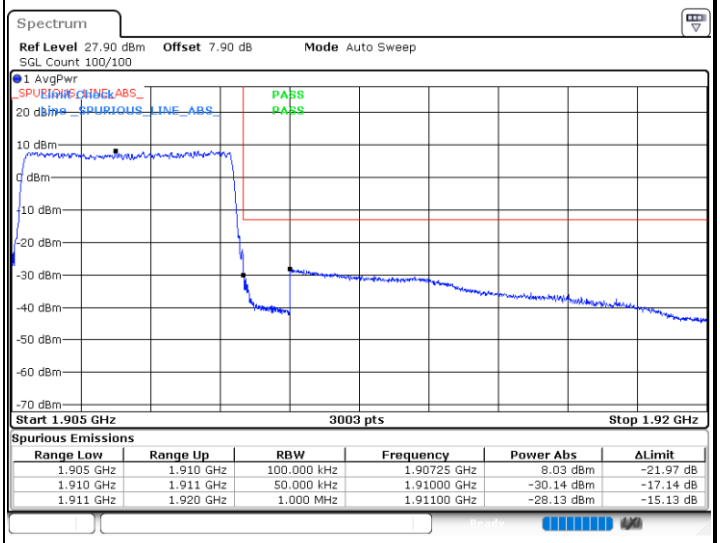


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84870 GHz	-24.41 dBm	-11.41 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84999 GHz	-28.03 dBm	-15.03 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85046 GHz	8.44 dBm	-21.56 dB

Date: 20.NOV.2025 22:41:18

Highest Band Edge / Full RB



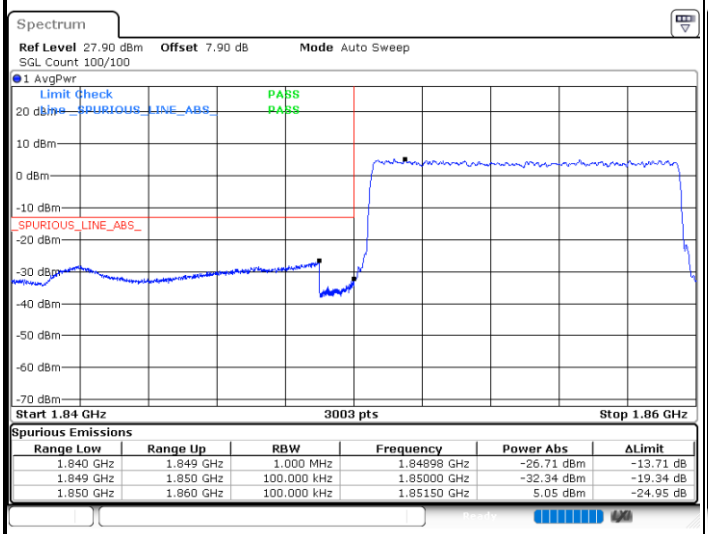
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90725 GHz	8.03 dBm	-21.97 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-30.14 dBm	-17.14 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-28.13 dBm	-15.13 dB

Date: 20.NOV.2025 22:42:48

LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB

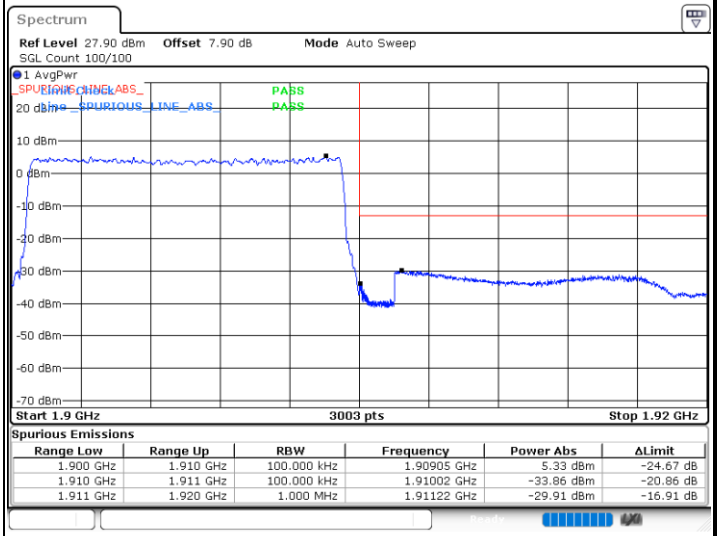


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-26.71 dBm	-13.71 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-32.34 dBm	-19.34 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85150 GHz	5.05 dBm	-24.95 dB

Date: 20.NOV.2025 22:44:25

Highest Band Edge / Full RB



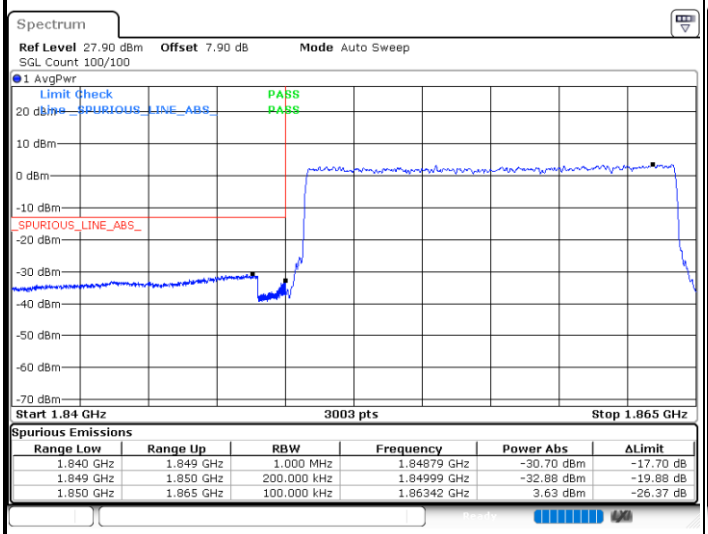
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90905 GHz	5.33 dBm	-24.67 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91002 GHz	-33.86 dBm	-20.86 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91122 GHz	-29.91 dBm	-16.91 dB

Date: 20.NOV.2025 22:46:08

LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB

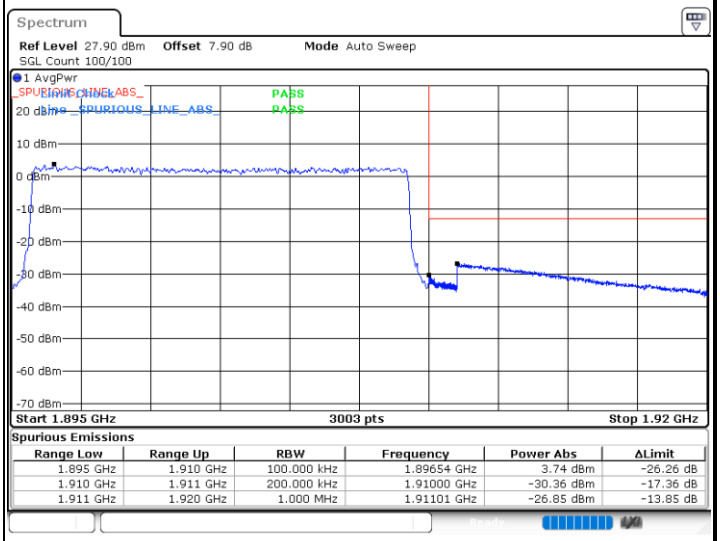


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84879 GHz	-30.70 dBm	-17.70 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84999 GHz	-32.88 dBm	-19.88 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86342 GHz	3.63 dBm	-26.37 dB

Date: 20.NOV.2025 22:47:48

Highest Band Edge / Full RB



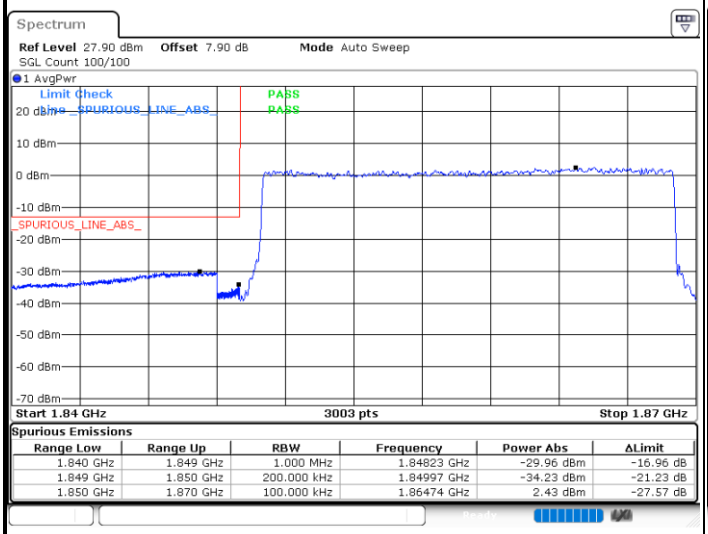
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89654 GHz	3.74 dBm	-26.26 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-30.36 dBm	-17.36 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-26.85 dBm	-13.85 dB

Date: 20.NOV.2025 22:49:35

LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB

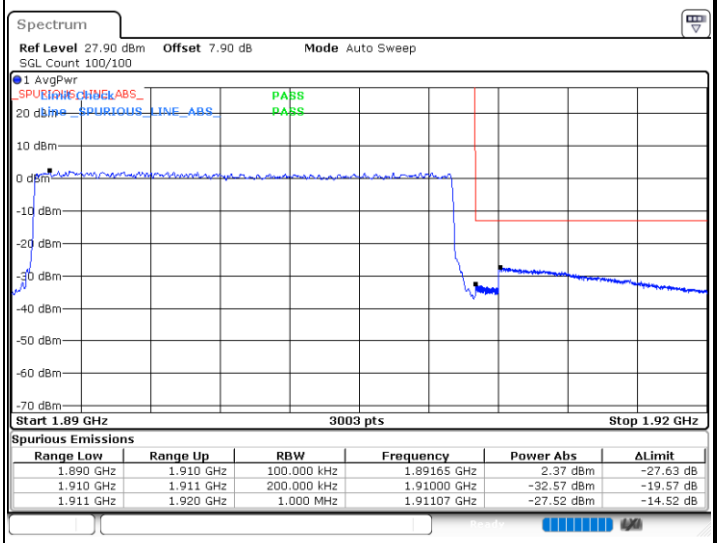


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84823 GHz	-29.96 dBm	-16.96 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84997 GHz	-34.23 dBm	-21.23 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86474 GHz	2.43 dBm	-27.57 dB

Date: 20.NOV.2025 22:51:23

Highest Band Edge / Full RB



Spurious Emissions

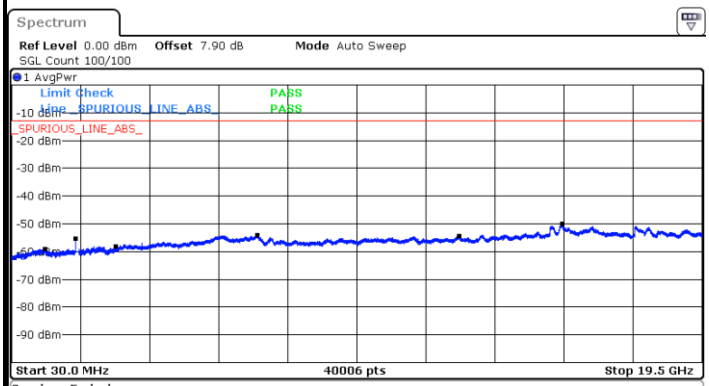
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89165 GHz	2.37 dBm	-27.63 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-32.57 dBm	-19.57 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-27.52 dBm	-14.52 dB

Date: 20.NOV.2025 22:53:05

Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

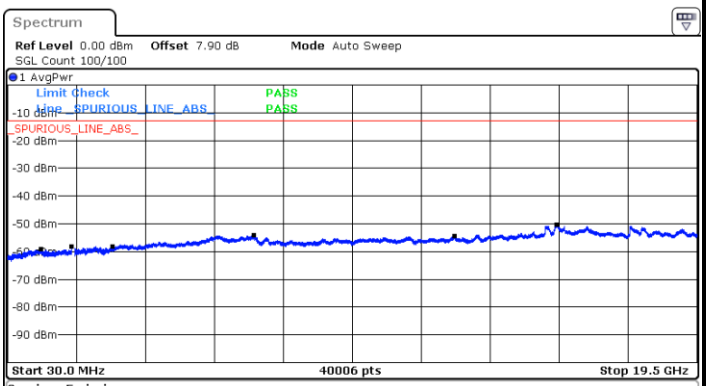


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.58071 MHz	-58.99 dBm	-45.99 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-55.41 dBm	-42.41 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96167 GHz	-58.11 dBm	-45.11 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95042 GHz	-54.16 dBm	-41.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64879 GHz	-54.28 dBm	-41.28 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.55555 GHz	-50.04 dBm	-37.04 dB

Date: 20.NOV.2025 22:55:09

Middle Channel / QPSK

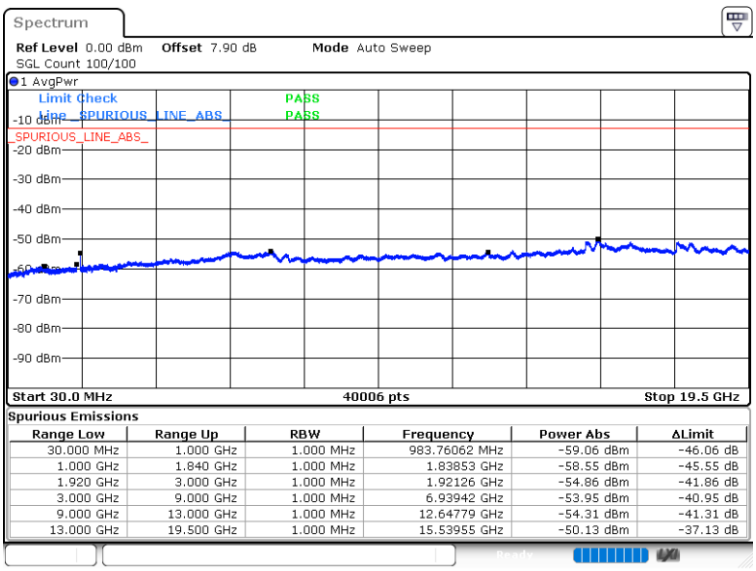


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-59.17 dBm	-46.17 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-58.18 dBm	-45.18 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99334 GHz	-58.27 dBm	-45.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98992 GHz	-54.15 dBm	-41.15 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64929 GHz	-54.50 dBm	-41.50 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54355 GHz	-50.31 dBm	-37.31 dB

Date: 20.NOV.2025 22:57:05

Highest Channel / QPSK



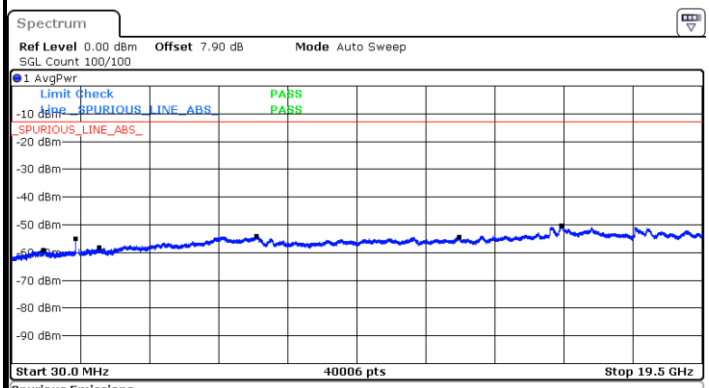
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-59.06 dBm	-46.06 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83853 GHz	-58.55 dBm	-45.55 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92126 GHz	-54.86 dBm	-41.86 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93942 GHz	-53.95 dBm	-40.95 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64779 GHz	-54.31 dBm	-41.31 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.53955 GHz	-50.13 dBm	-37.13 dB

Date: 20.NOV.2025 22:58:58

LTE Band 2 / 3MHz

Lowest Channel / QPSK

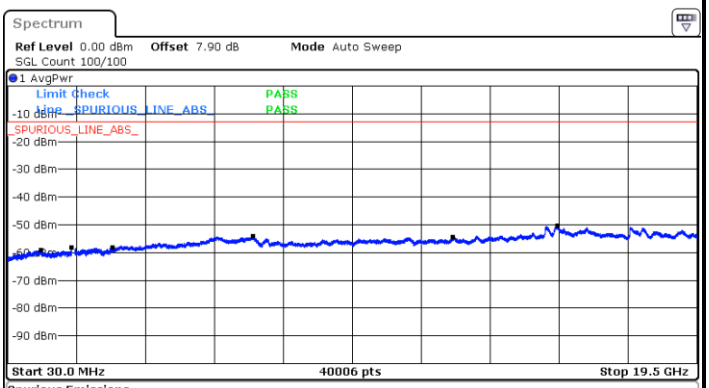


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	924.13543 MHz	-59.14 dBm	-46.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-55.05 dBm	-42.05 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.49887 GHz	-58.11 dBm	-45.11 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92592 GHz	-54.24 dBm	-41.24 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65379 GHz	-54.30 dBm	-41.30 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.52706 GHz	-50.17 dBm	-37.17 dB

Date: 20.NOV.2025 23:01:07

Middle Channel / QPSK

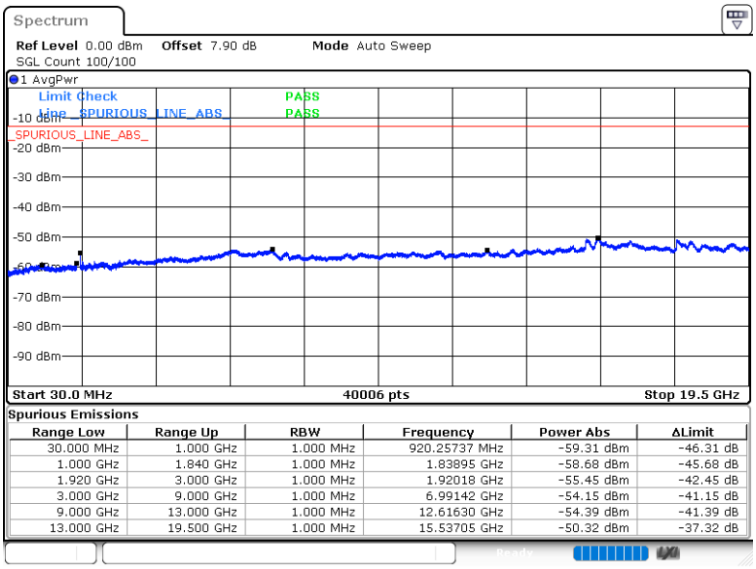


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.91604 MHz	-59.18 dBm	-46.18 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-58.15 dBm	-45.15 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97535 GHz	-58.25 dBm	-45.25 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94342 GHz	-54.02 dBm	-41.02 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.59230 GHz	-54.46 dBm	-41.46 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.55305 GHz	-50.19 dBm	-37.19 dB

Date: 20.NOV.2025 23:02:50

Highest Channel / QPSK



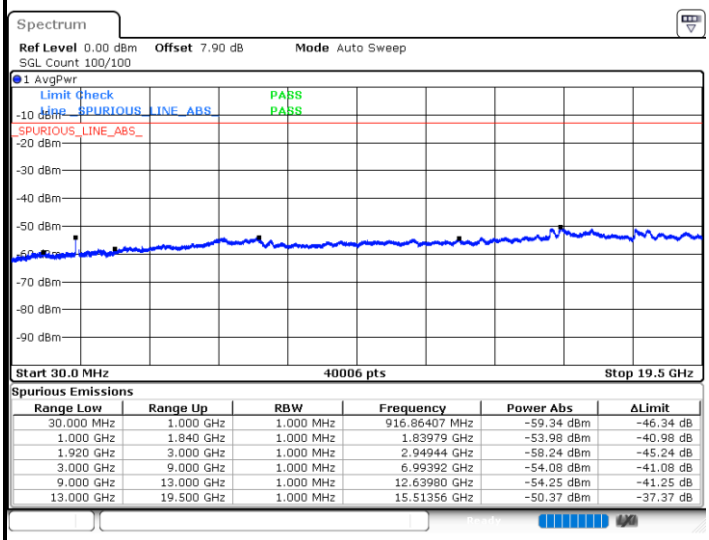
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	920.25737 MHz	-59.31 dBm	-46.31 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83895 GHz	-58.68 dBm	-45.68 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92018 GHz	-55.45 dBm	-42.45 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99142 GHz	-54.15 dBm	-41.15 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.61630 GHz	-54.39 dBm	-41.39 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.53705 GHz	-50.32 dBm	-37.32 dB

Date: 20.NOV.2025 23:04:40

LTE Band 2 / 5MHz

Lowest Channel / QPSK

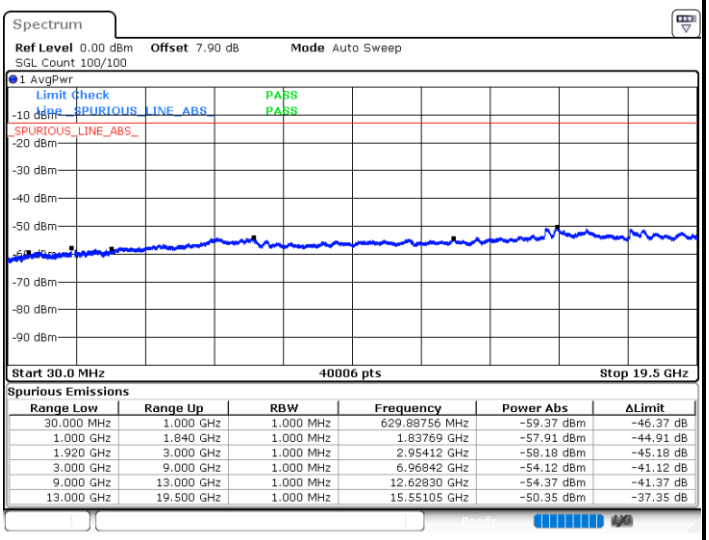


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.86407 MHz	-59.34 dBm	-46.34 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-53.98 dBm	-40.98 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94944 GHz	-58.24 dBm	-45.24 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99392 GHz	-54.08 dBm	-41.08 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.63980 GHz	-54.25 dBm	-41.25 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.51356 GHz	-50.37 dBm	-37.37 dB

Date: 20.NOV.2025 23:06:47

Middle Channel / QPSK

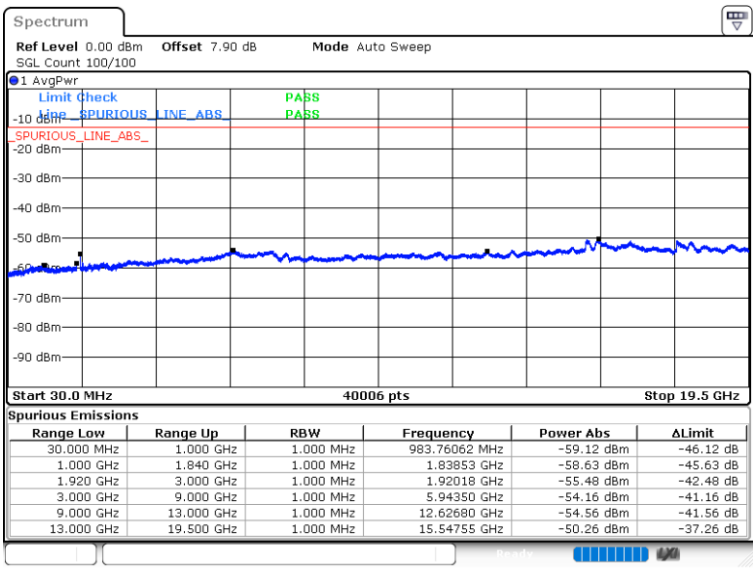


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	629.88756 MHz	-59.37 dBm	-46.37 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83769 GHz	-57.91 dBm	-44.91 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.95412 GHz	-58.18 dBm	-45.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96842 GHz	-54.12 dBm	-41.12 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.62830 GHz	-54.37 dBm	-41.37 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.55105 GHz	-50.35 dBm	-37.35 dB

Date: 20.NOV.2025 23:09:00

Highest Channel / QPSK



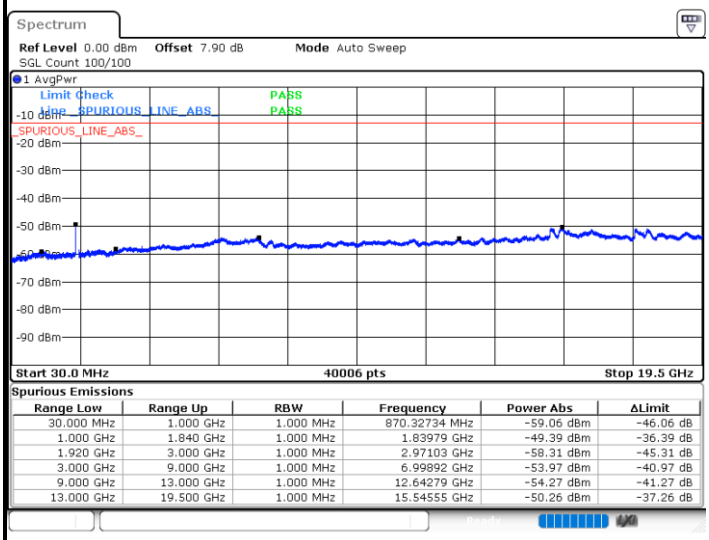
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-59.12 dBm	-46.12 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83853 GHz	-58.63 dBm	-45.63 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92018 GHz	-55.48 dBm	-42.48 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.94350 GHz	-54.16 dBm	-41.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.62680 GHz	-54.56 dBm	-41.56 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54755 GHz	-50.26 dBm	-37.26 dB

Date: 20.NOV.2025 23:10:48

LTE Band 2 / 10MHz

Lowest Channel / QPSK

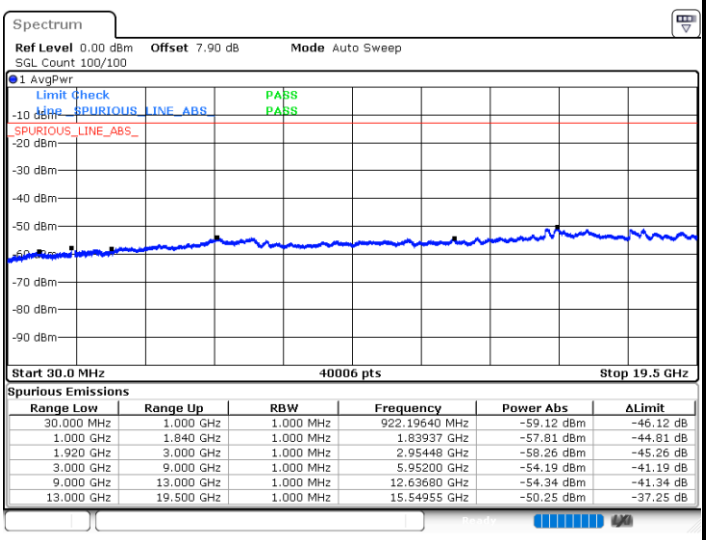


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	870.32734 MHz	-59.06 dBm	-46.06 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-49.39 dBm	-36.39 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97103 GHz	-58.31 dBm	-45.31 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99892 GHz	-53.97 dBm	-40.97 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64279 GHz	-54.27 dBm	-41.27 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54555 GHz	-50.26 dBm	-37.26 dB

Date: 20.NOV.2025 23:12:45

Middle Channel / QPSK

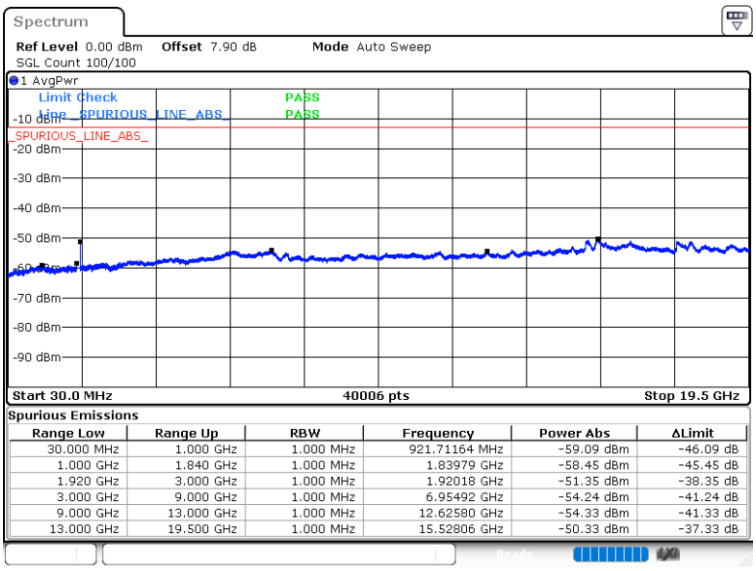


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	922.19640 MHz	-59.12 dBm	-46.12 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-57.81 dBm	-44.81 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.95448 GHz	-58.26 dBm	-45.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.95200 GHz	-54.19 dBm	-41.19 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.63680 GHz	-54.34 dBm	-41.34 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54955 GHz	-50.25 dBm	-37.25 dB

Date: 20.NOV.2025 23:14:36

Highest Channel / QPSK



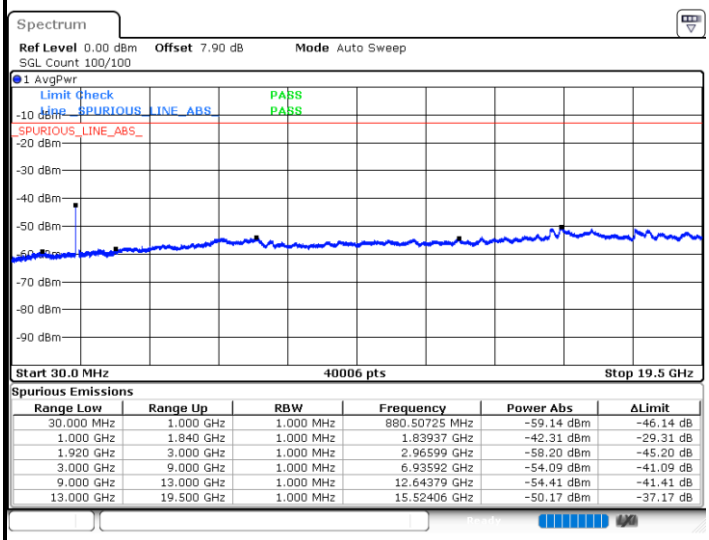
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	921.71164 MHz	-59.09 dBm	-46.09 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-58.45 dBm	-45.45 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92018 GHz	-51.35 dBm	-38.35 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95492 GHz	-54.24 dBm	-41.24 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.62580 GHz	-54.33 dBm	-41.33 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.52806 GHz	-50.33 dBm	-37.33 dB

Date: 20.NOV.2025 23:16:24

LTE Band 2 / 15MHz

Lowest Channel / QPSK

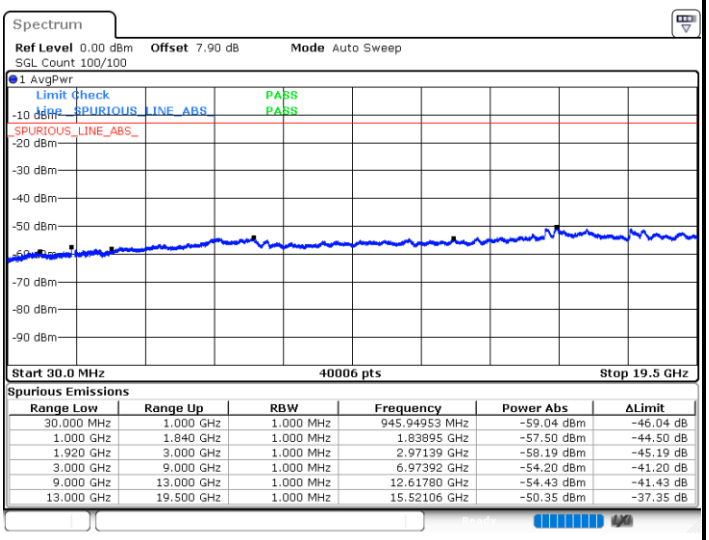


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	880.50725 MHz	-59.14 dBm	-46.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-42.31 dBm	-29.31 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96599 GHz	-58.20 dBm	-45.20 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93592 GHz	-54.09 dBm	-41.09 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64379 GHz	-54.41 dBm	-41.41 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.52406 GHz	-50.17 dBm	-37.17 dB

Date: 20.NOV.2025 23:18:25

Middle Channel / QPSK

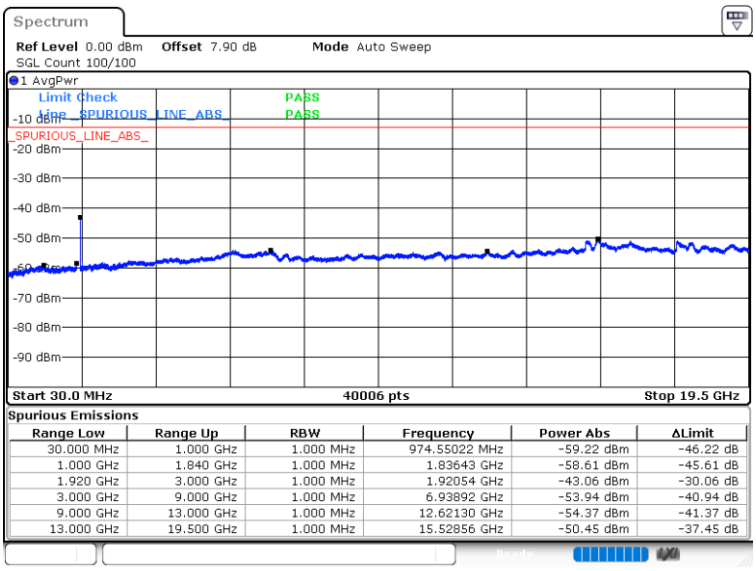


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	945.94953 MHz	-59.04 dBm	-46.04 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83895 GHz	-57.50 dBm	-44.50 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97139 GHz	-58.19 dBm	-45.19 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.97392 GHz	-54.20 dBm	-41.20 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.61780 GHz	-54.43 dBm	-41.43 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.52106 GHz	-50.35 dBm	-37.35 dB

Date: 20.NOV.2025 23:20:18

Highest Channel / QPSK



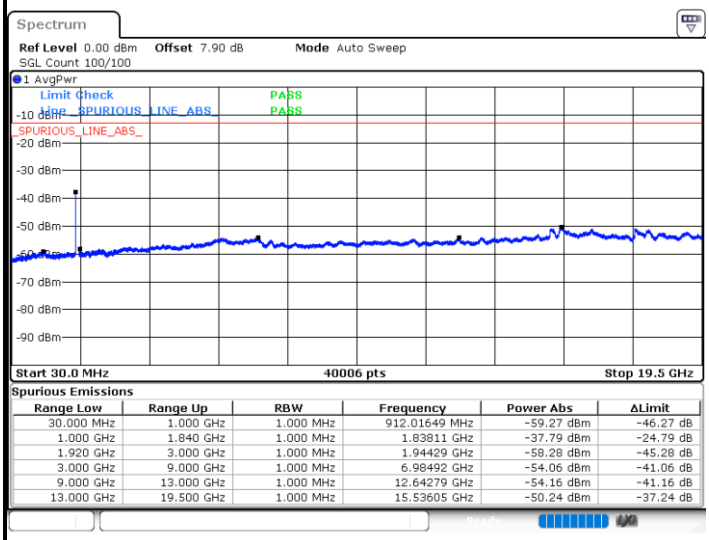
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.55022 MHz	-59.22 dBm	-46.22 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83643 GHz	-58.61 dBm	-45.61 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92054 GHz	-43.06 dBm	-30.06 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93892 GHz	-53.94 dBm	-40.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.62130 GHz	-54.37 dBm	-41.37 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.52856 GHz	-50.45 dBm	-37.45 dB

Date: 20.NOV.2025 23:22:02

LTE Band 2 / 20MHz

Lowest Channel / QPSK

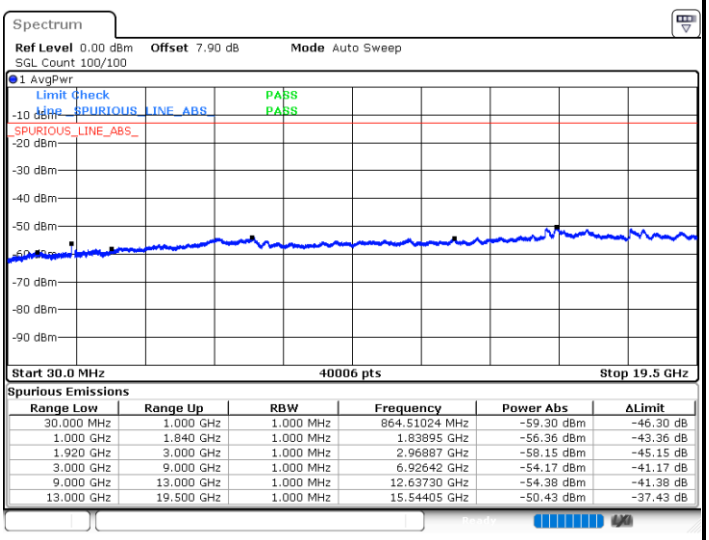


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.01649 MHz	-59.27 dBm	-46.27 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83811 GHz	-37.79 dBm	-24.79 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.94429 GHz	-58.28 dBm	-45.28 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98492 GHz	-54.06 dBm	-41.06 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.64279 GHz	-54.16 dBm	-41.16 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.53605 GHz	-50.24 dBm	-37.24 dB

Date: 20.NOV.2025 23:24:07

Middle Channel / QPSK

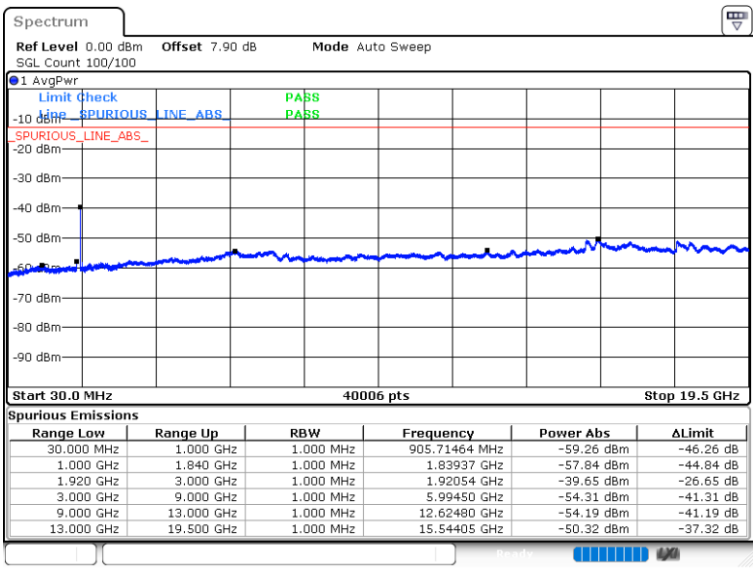


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	864.51024 MHz	-59.30 dBm	-46.30 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83895 GHz	-56.36 dBm	-43.36 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.96887 GHz	-58.15 dBm	-45.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.92642 GHz	-54.17 dBm	-41.17 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.63730 GHz	-54.38 dBm	-41.38 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54405 GHz	-50.43 dBm	-37.43 dB

Date: 20.NOV.2025 23:26:03

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	905.71464 MHz	-59.26 dBm	-46.26 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-57.84 dBm	-44.84 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92054 GHz	-39.65 dBm	-26.65 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.99450 GHz	-54.31 dBm	-41.31 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.62480 GHz	-54.19 dBm	-41.19 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.54405 GHz	-50.32 dBm	-37.32 dB

Date: 20.NOV.2025 23:28:02

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (△f) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0010	-1.9	Yes	PASS
40	Normal Voltage	0.0031	-5.8	Yes	
30	Normal Voltage	0.0028	-5.3	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0048	-9	Yes	
0	Normal Voltage	0.0007	-1.4	Yes	
-10	Normal Voltage	0.0077	-14.5	Yes	
-20	Normal Voltage	0.0013	2.4	Yes	
-30	Normal Voltage	0.0019	-3.6	Yes	
20	Maximum Voltage	0.0049	-9.2	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0046	-8.6	Yes	

Note:

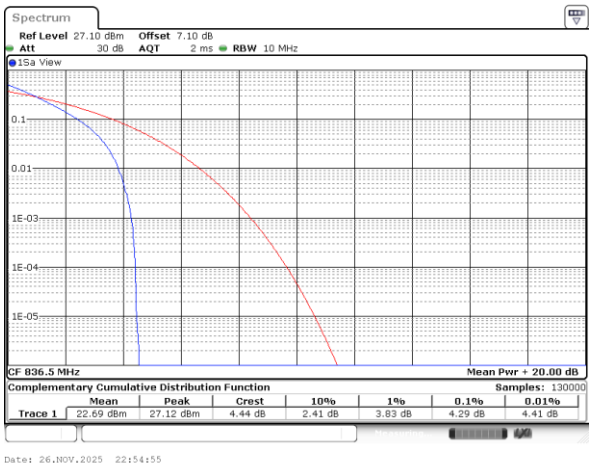
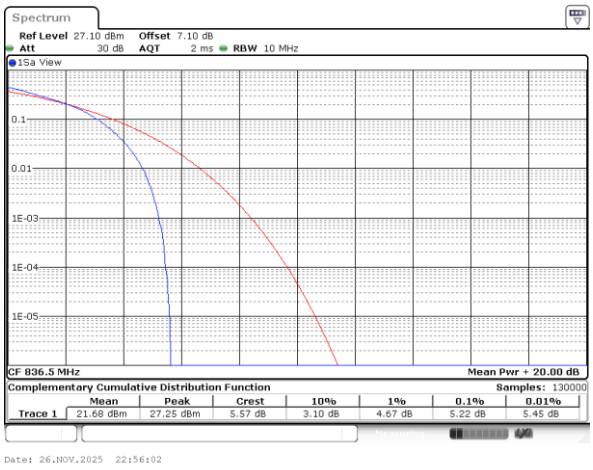
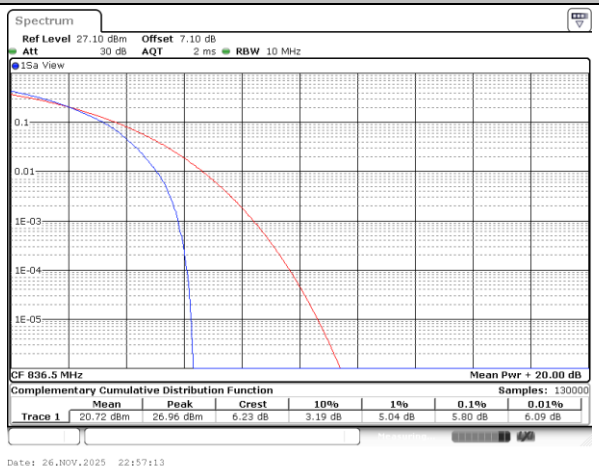
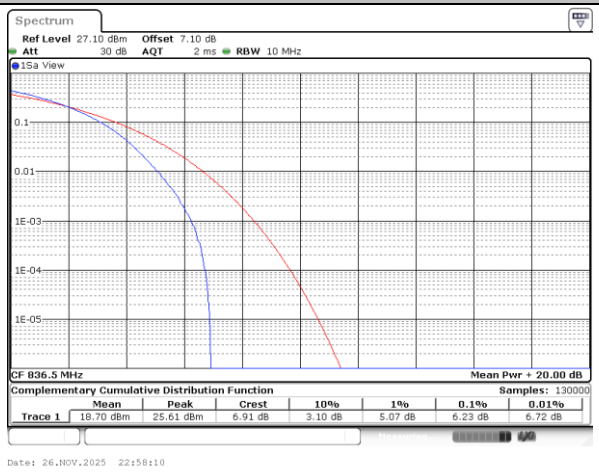
1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency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

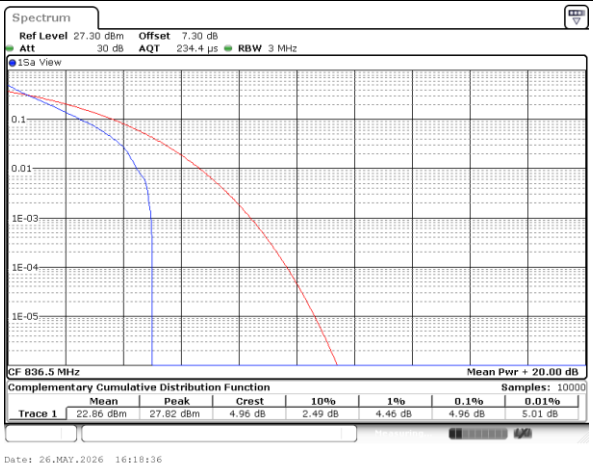
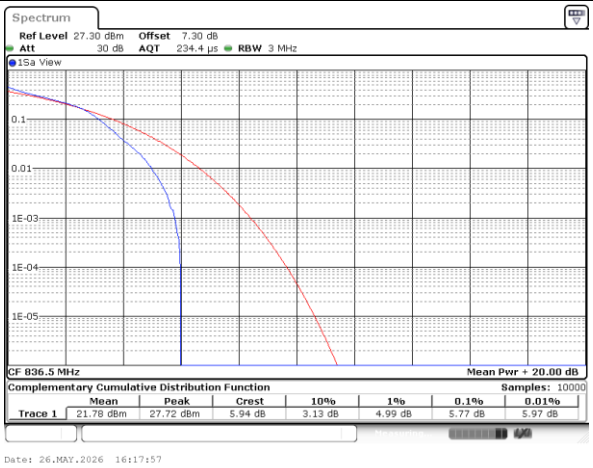
LTE Band 5

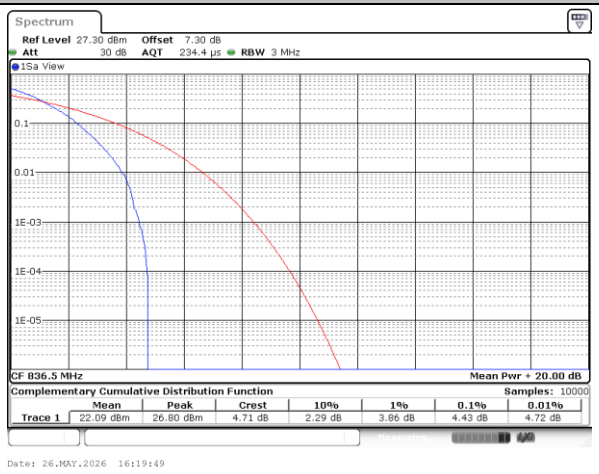
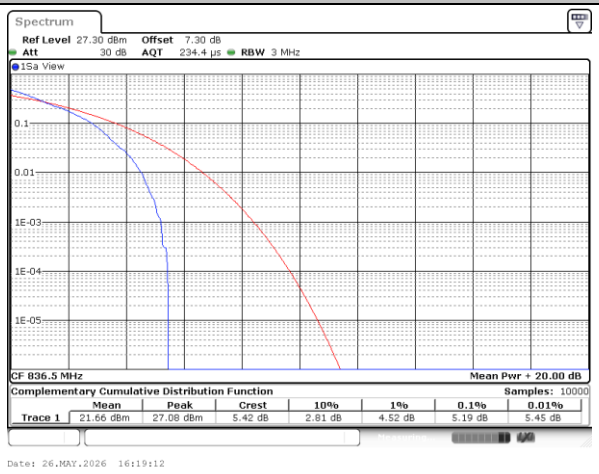
Peak-to-Average Ratio

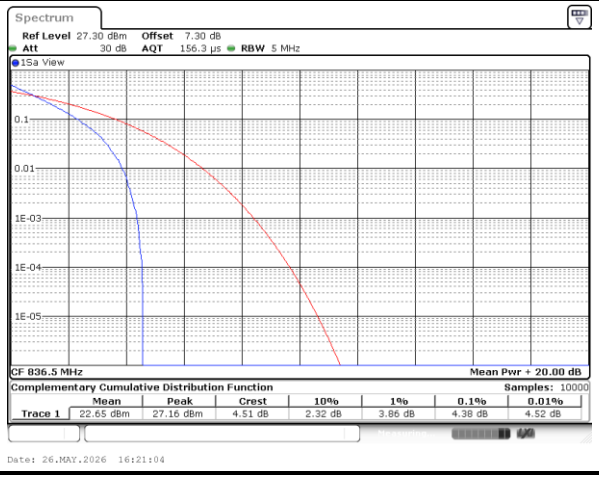
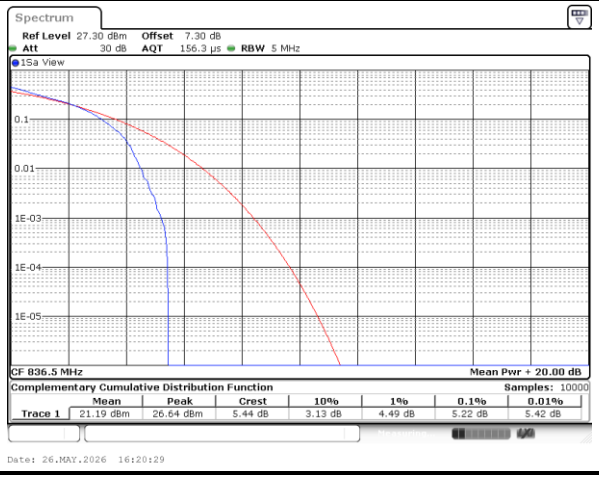
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.29	5.22	5.80	6.23	PASS

Mode	LTE Band 5 / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.96	5.77	PASS
Mode	LTE Band 5 / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.43	5.19	PASS
Mode	LTE Band 5 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.38	5.22	PASS

LTE Band 5 / 10MHz / QPSK	LTE Band 5 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 5 / 10MHz / 64QAM	LTE Band 5 / 10MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 5 / 1.4MHz / QPSK	LTE Band 5 / 1.4MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 5 / 3MHz / QPSK	LTE Band 5 / 3MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

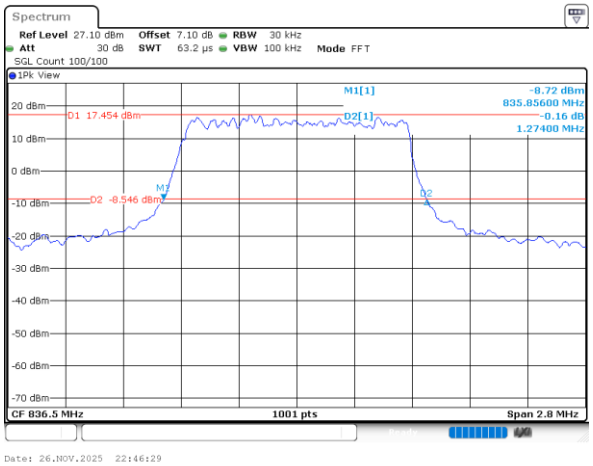
LTE Band 5 / 5MHz / QPSK	LTE Band 5 / 5MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

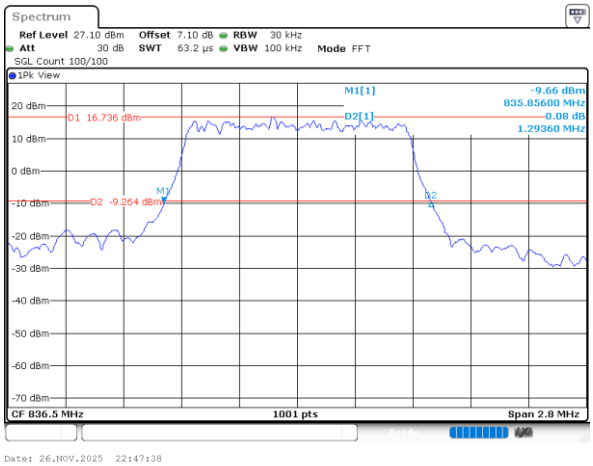
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.27	1.29	3.01	3.00	4.92	5.00	9.88	9.74	-	-	-	-

LTE Band 5

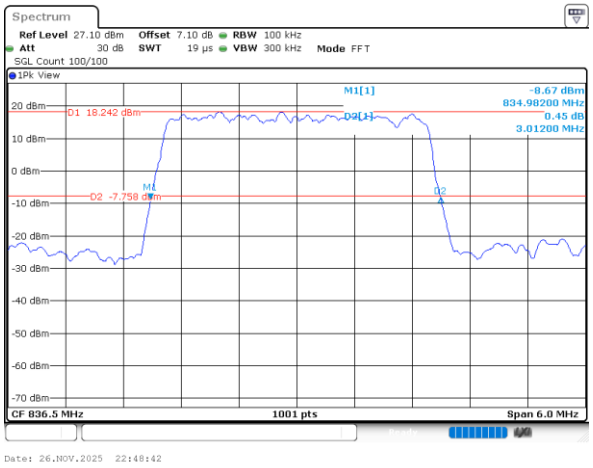
Middle Channel / 1.4MHz / QPSK



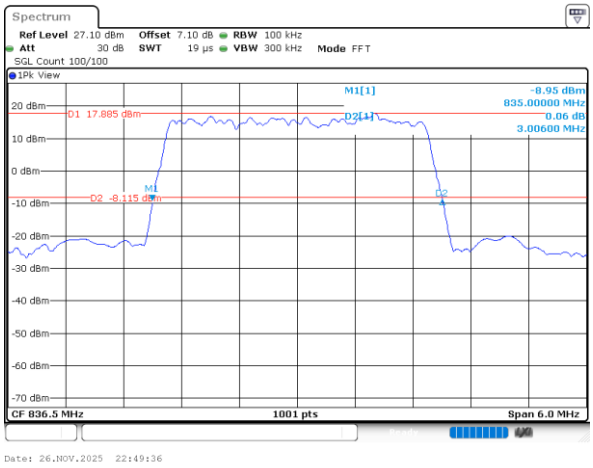
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

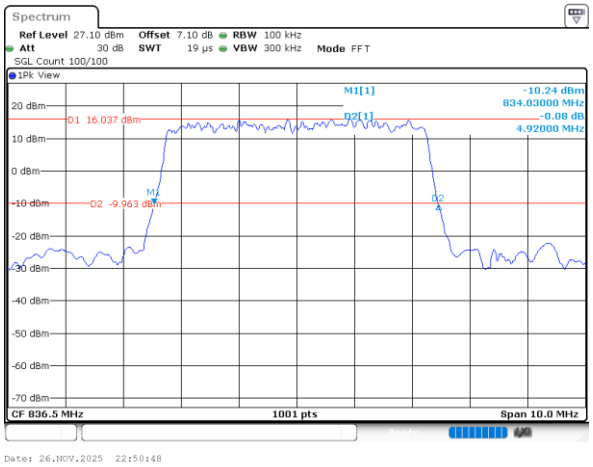


Middle Channel / 3MHz / 16QAM

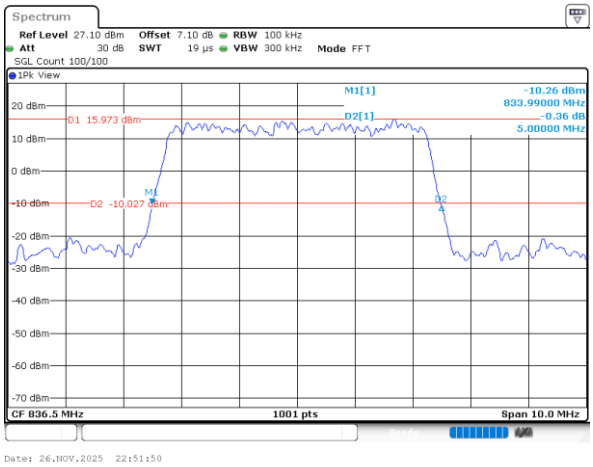


LTE Band 5

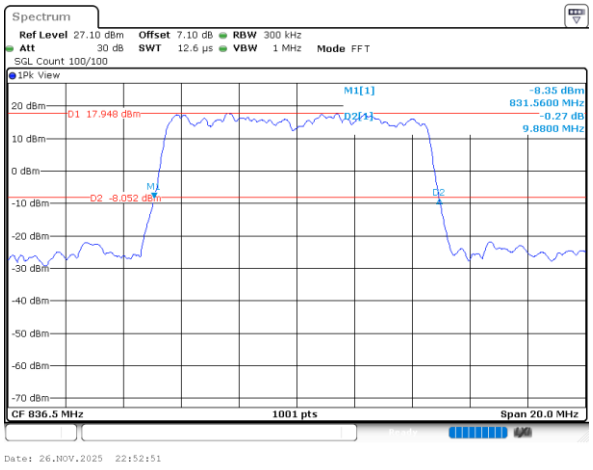
Middle Channel / 5MHz / QPSK



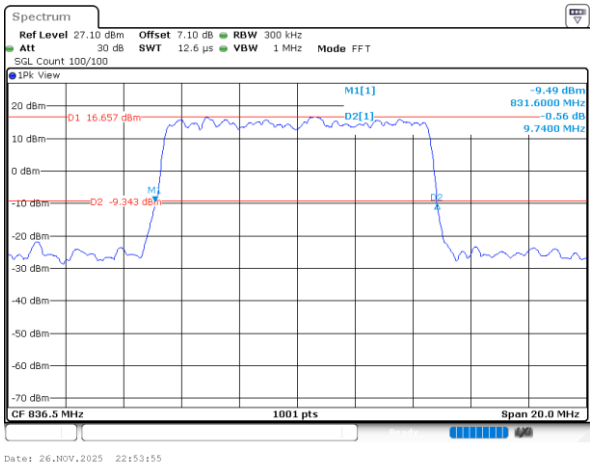
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

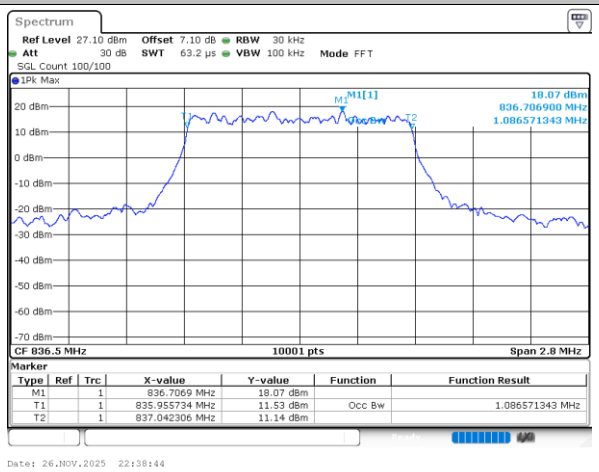


Occupied Bandwidth

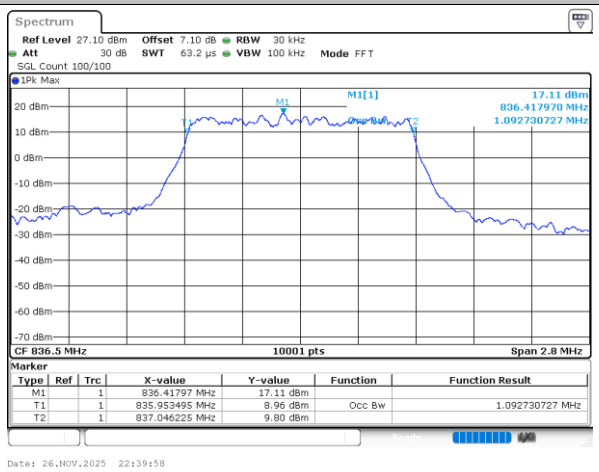
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.71	2.71	4.48	4.48	9.05	8.98	-	-	-	-

LTE Band 5

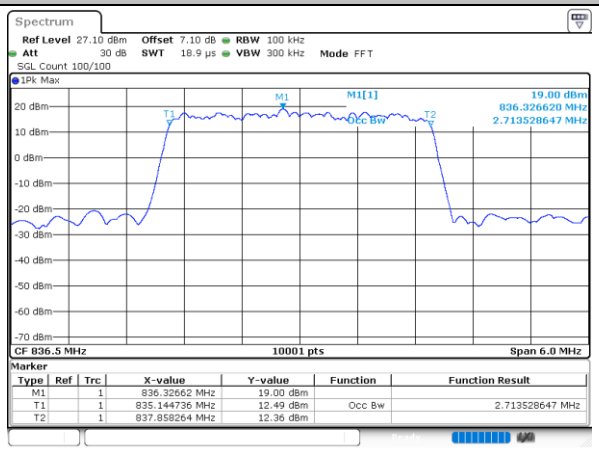
Middle Channel / 1.4MHz / QPSK



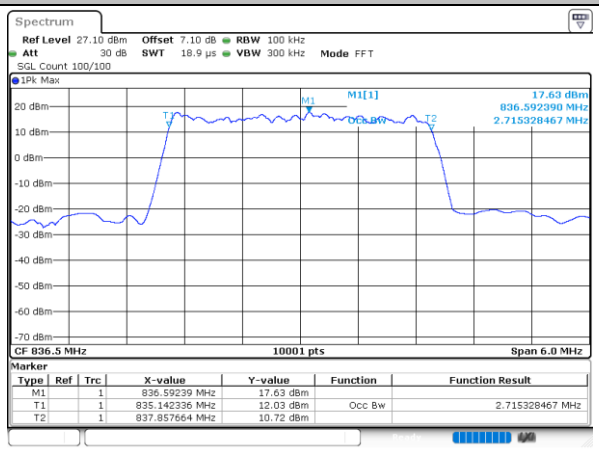
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

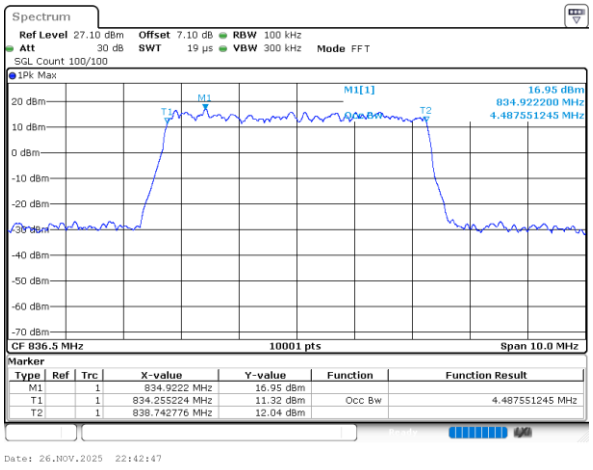


Middle Channel / 3MHz / 16QAM

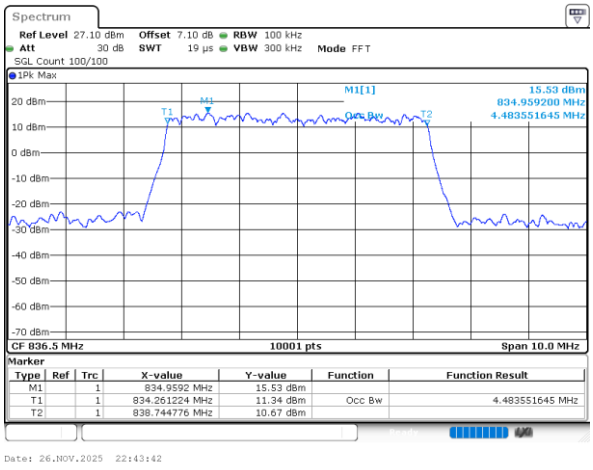


LTE Band 5

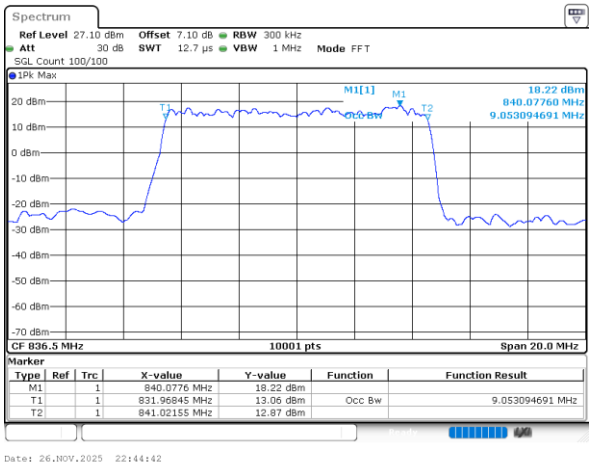
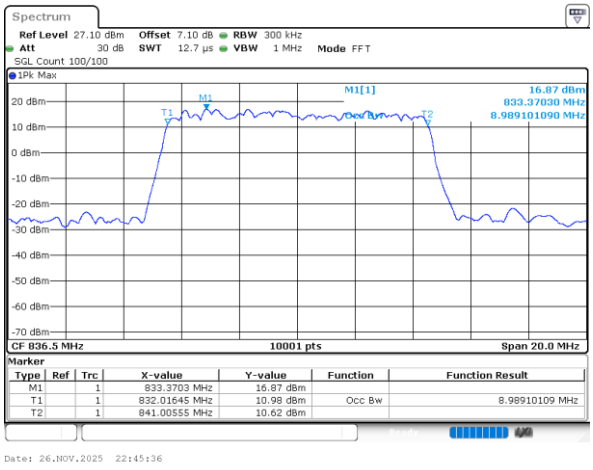
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM