The following test report with report number FG5N0809-01D is an addendum to the RF spot check test report for FCC ID: A4RGUJ0N variant model GUJ0N.
It contains test data from FCC ID: A4RGPQQ7 reference model GPQQ7 that is referenced in the variant model GUJ0N RF spot check report.

FCC RADIO TEST REPORT

FCC ID	:	A4RGPQQ7
Equipment	:	Phone
Model Name	:	GPQQ7
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC 47 CFR Part 2, 96

The product was received on Nov. 20, 2025 and testing was performed from Nov. 21, 2025 to May 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 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. 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.)

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Appendix A. Test Results of Conducted Test

Appendix B. Test Results of Radiated Test

Appendix C. Test Setup Photographs

History of this test report

Report No.	Version	Description	Issue Date
FG5N0809-01D	01	Initial issue of report	Apr. 22, 2026
FG5N0809-01D	02	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	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	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: Shannon Huang

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.

TDD band Power Class		
	PC3	**PC2**
B48	V	-

Antenna information				
Band	**Ant6**	**Ant7**	**Main Ant. #**	**Sub Ant. #**
B48	1.7	2.7	6	7

Remark:
1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant6 is selected as the worst mode to be reported for conducted test in the test report.

EUT Information List	
S/N	Performed Test Item
5B081FDDX0002S	Conducted Measurement EIRP
5B111FDDX000D8	Radiated Spurious Emission

1.2 Modification of EUT

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

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	03CH12-HY
Test Engineer	Yuki Chen	Tim Lee、Wilson Wu 、Gerry Wei
Temperature (℃)	22.4~23.2	20~25
Relative Humidity (%)	52.5~55.1	50~60

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

FCC Designation No.: TW3786

1.4 Applied Standards

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

- ANSI C63.26-2015

- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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 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 X Plane with Adaptor as worst plane.

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

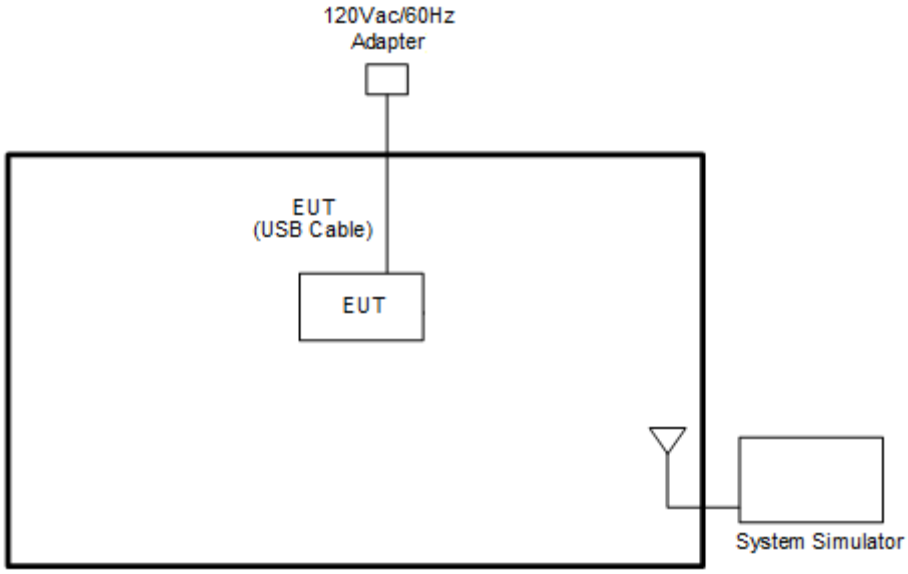
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	All	Full	M
Bandwidth	A, B, C, D	All	Full	M
ACLR, Mask (Part 96)	A, B, C, D	Minimum	1RB	L, M, H
		All	Full	
CSE	A	Minimum	1RB	L, M, H
Frequency Stability	A	10 MHz or less (other)	Full	M
RSE	A	10 MHz or less (other)	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.
4. All the radiated test cases were performed with Adapter 1 and USB Cable 1.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration

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.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

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 48 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	55340	55990	56640
	Frequency	3560.0	3625.0	3690.0
15	Channel	55315	55990	56665
	Frequency	3557.5	3625.0	3692.5
10	Channel	55290	55990	56690
	Frequency	3555.0	3625.0	3695.0
5	Channel	55265	55990	56715
	Frequency	3552.5	3625.0	3697.5

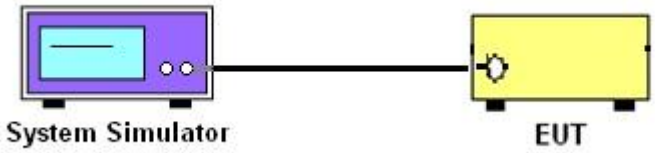
3 Conducted Test Items

3.1 Measuring Instruments

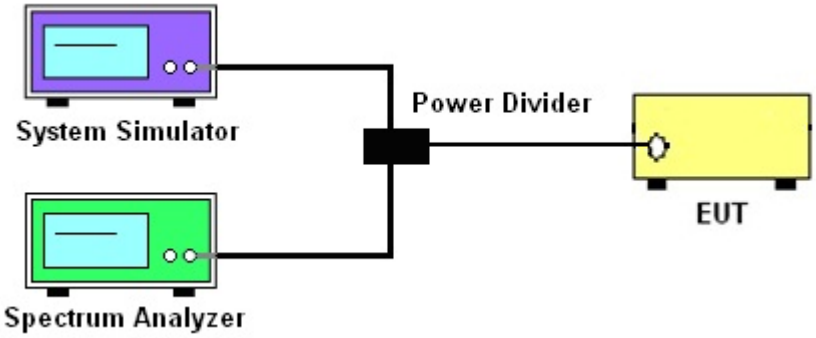
See list of measuring instruments of this test report.

3.1.1 Test Setup

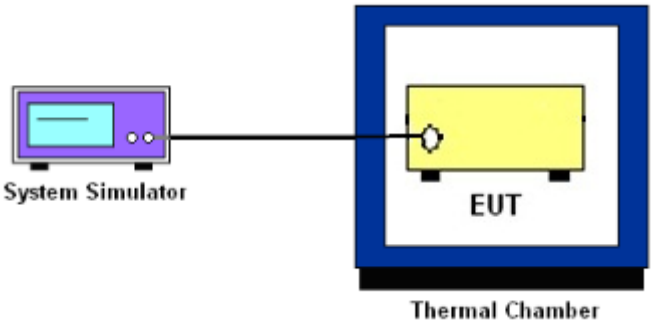
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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

3.2.3 Test Result of the Conducted Output Power and EIRP Measurement

<ANT 6>

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.40	20.46	20.41	22.16	0.1644
20	1	49		20.22	20.30	20.16		
20	1	99		20.39	20.04	20.39		
20	50	0		20.31	20.30	20.30		
20	50	24		20.22	20.26	20.19		
20	50	50		20.23	20.26	20.26		
20	100	0		20.25	20.33	20.21		
20	1	0	16-QAM	20.21	20.50	20.18	22.23	0.1671
20	1	49		20.30	20.41	20.29		
20	1	99		20.48	20.13	20.47		
20	1	0	64-QAM	19.83	20.19	19.79	22.16	0.1644
20	1	49		19.94	20.03	19.88		
20	1	99		20.12	19.75	20.09		
20	1	0	256-QAM	19.00	18.94	18.91	20.79	0.1199
20	1	49		19.04	19.06	19.09		
20	1	99		18.92	18.97	18.93		
15	1	0	QPSK	20.22	20.27	20.26	21.98	0.1578
15	1	37		20.03	20.10	20.03		
15	1	74		20.28	19.90	20.23		
15	36	0		20.09	20.15	19.96		
15	36	20		20.04	20.11	20.03		
15	36	39		20.18	20.20	20.18		
15	75	0		20.05	20.16	20.05		
15	1	0	16-QAM	20.05	20.33	20.06	22.09	0.1618
15	1	37		20.14	20.26	20.10		
15	1	74		20.29	19.93	20.37		
15	1	0	64-QAM	19.69	20.08	19.62	21.99	0.1581
15	1	37		19.83	19.92	19.78		
15	1	74		19.94	19.62	19.90		
15	1	0	256-QAM	18.90	18.80	18.74	20.67	0.1167
15	1	37		18.90	18.88	18.97		
15	1	74		18.77	18.78	18.75		
Limit	EIRP < 23dBm/10MHz			Result			Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.								

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.27	20.31	20.30	22.01	0.1589
10	1	25		20.03	20.20	19.99		
10	1	49		20.22	19.91	20.19		
10	25	0		20.04	20.13	19.99		
10	25	12		20.09	20.12	20.03		
10	25	25		20.11	20.19	20.17		
10	50	0		20.09	20.20	20.04		
10	1	0	16-QAM	20.03	20.33	20.03	22.08	0.1614
10	1	25		20.18	20.29	20.11		
10	1	49		20.38	19.99	20.31		
10	1	0	64-QAM	19.64	20.06	19.68	22.02	0.1592
10	1	25		19.82	19.83	19.77		
10	1	49		19.92	19.65	19.95		
10	1	0	256-QAM	18.90	18.82	18.77	20.65	0.1161
10	1	25		18.85	18.91	18.94		
10	1	49		18.77	18.82	18.73		
5	1	0	QPSK	20.30	20.29	20.22	22.00	0.1585
5	1	12		20.06	20.15	20.03		
5	1	24		20.20	19.91	20.23		
5	12	0		20.09	20.09	20.03		
5	12	7		20.02	20.09	20.05		
5	12	13		20.16	20.16	20.13		
5	25	0		20.12	20.19	20.09		
5	1	0	16-QAM	20.01	20.30	20.08	22.12	0.1629
5	1	12		20.15	20.26	20.09		
5	1	24		20.30	20.00	20.29		
5	1	0	64-QAM	19.72	19.99	19.59	22.01	0.1589
5	1	12		19.80	19.86	19.75		
5	1	24		19.94	19.58	19.89		
5	1	0	256-QAM	18.80	18.80	18.71	20.63	0.1156
5	1	12		18.93	18.91	18.90		
5	1	24		18.80	18.87	18.76		
Limit	EIRP < 23dBm/10MHz			Result			Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.								

<ANT 7>

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	18.87	18.93	18.80	21.63	0.1455
20	1	49		18.65	18.72	18.42		
20	1	99		18.86	18.50	18.70		
20	50	0		18.75	18.92	18.57		
20	50	24		18.65	18.76	18.44		
20	50	50		18.71	18.90	18.54		
20	100	0		18.71	18.76	18.47		
20	1	0	16-QAM	18.73	18.83	18.45	21.67	0.1469
20	1	49		18.77	18.81	18.50		
20	1	99		18.96	18.58	18.77		
20	1	0	64-QAM	18.31	18.62	18.34	21.68	0.1472
20	1	49		18.36	18.41	18.41		
20	1	99		18.55	18.33	18.38		
20	1	0	256-QAM	18.38	18.57	18.38	21.27	0.1340
20	1	49		18.42	18.55	18.43		
20	1	99		18.31	18.51	18.32		
15	1	0	QPSK	18.77	18.85	18.73	21.55	0.1429
15	1	37		18.59	18.62	18.30		
15	1	74		18.80	18.42	18.63		
15	36	0		18.57	18.79	18.30		
15	36	20		18.53	18.66	18.34		
15	36	39		18.65	18.84	18.49		
15	75	0		18.63	18.71	18.37		
15	36	20	16-QAM	18.62	18.75	18.39	21.60	0.1445
15	36	39		18.70	18.57	18.53		
15	75	0		18.67	18.71	18.44		
15	1	0	64-QAM	18.35	18.56	18.30	21.61	0.1449
15	1	37		18.49	18.31	18.36		
15	1	74		18.49	18.33	18.33		
15	1	0	256-QAM	18.26	18.49	18.27	21.19	0.1315
15	1	37		18.31	18.43	18.37		
15	1	74		18.25	18.45	18.21		
Limit	EIRP < 23dBm/10MHz			Result			Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.								

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	18.81	18.84	18.73	21.55	0.1429
10	1	25		18.58	18.60	18.32		
10	1	49		18.80	18.45	18.63		
10	25	0		18.55	18.80	18.33		
10	25	12		18.58	18.70	18.34		
10	25	25		18.69	18.85	18.50		
10	50	0		18.64	18.66	18.41		
10	1	0	16-QAM	18.61	18.78	18.33	21.59	0.1442
10	1	25		18.70	18.71	18.44		
10	1	49		18.88	18.53	18.68		
10	1	0	64-QAM	18.44	18.52	18.46	21.57	0.1435
10	1	25		18.30	18.34	18.34		
10	1	49		18.45	18.33	18.48		
10	1	0	256-QAM	18.27	18.49	18.31	21.19	0.1315
10	1	25		18.30	18.46	18.36		
10	1	49		18.24	18.44	18.21		
5	1	0	QPSK	18.82	18.88	18.74	21.58	0.1439
5	1	12		18.60	18.64	18.35		
5	1	24		18.77	18.43	18.63		
5	12	0		18.60	18.84	18.39		
5	12	7		18.58	18.66	18.32		
5	12	13		18.64	18.80	18.48		
5	25	0		18.60	18.69	18.41		
5	1	0	16-QAM	18.67	18.71	18.35	21.60	0.1445
5	1	12		18.72	18.76	18.40		
5	1	24		18.87	18.46	18.67		
5	1	0	64-QAM	18.40	18.57	18.37	21.56	0.1432
5	1	12		18.44	18.33	18.32		
5	1	24		18.47	18.33	18.36		
5	1	0	256-QAM	18.30	18.48	18.33	21.19	0.1315
5	1	12		18.34	18.49	18.31		
5	1	24		18.42	18.39	18.32		
Limit	EIRP < 23dBm/10MHz			Result			Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.								

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 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, 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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 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.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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 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.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±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.

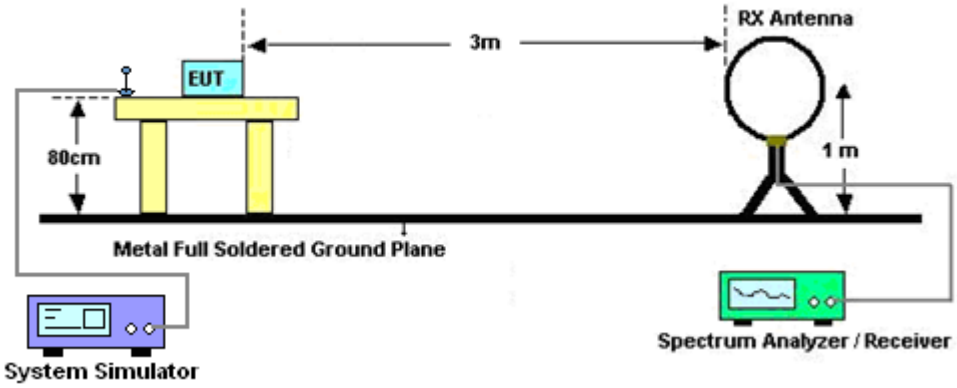
4 Radiated Test Items

4.1 Measuring Instruments

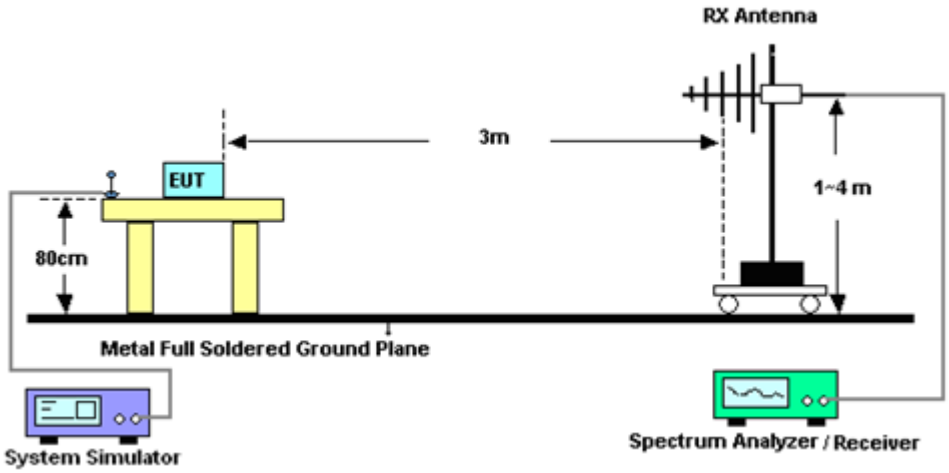
See list of measuring instruments of this test report.

4.2 Test Setup

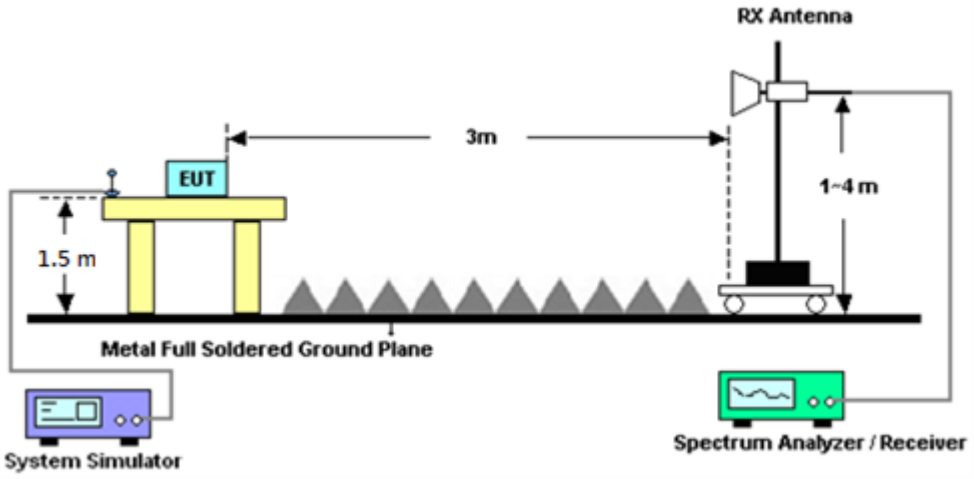
For radiated emissions below 30MHz



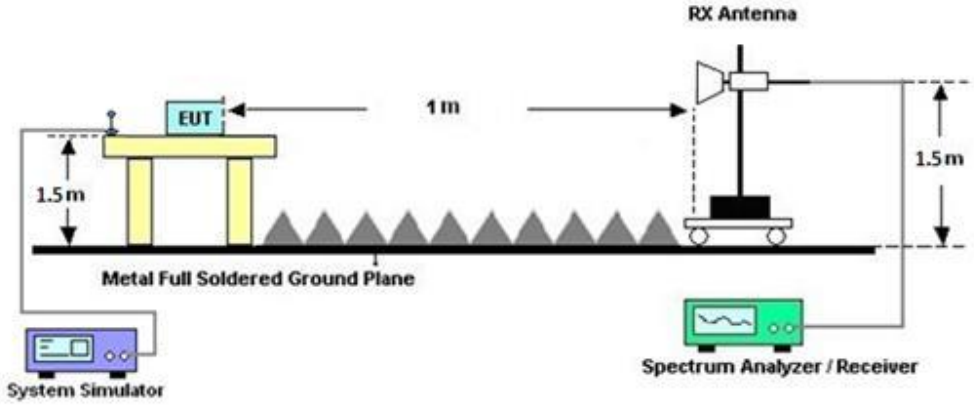
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 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.

4.4 Radiated Spurious Emission

4.4.1 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 -40dBm / MHz .

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

4.4.2 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.

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
   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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 05, 2026	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Nov. 25, 2026	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-021 14	1GHz~18GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190026 9	1GHz-18GHz	Dec. 19, 2024	Nov. 27 2025~ Dec. 17 2026	Dec. 18, 2025	Radiation (03CH12-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Dec. 17 2025	Dec. 17 2025~ Feb. 14 2026	Dec. 16 2026	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Sep. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 08, 2026	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 53	20Hz~26.5GHz	Sep. 08, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 07, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz-40GHz	Jan. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Jan. 08, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz-40GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Nov. 27 2025~ Feb. 14 2026	May 25, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900 -1000-15000- 60SS	SN11	1GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM -KM-1000	240905	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4	9kHz~30MHz	Oct. 01, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 30, 2026	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Aug. 25, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278353	LTE FDD/TDD DLCA/ULCA	Oct. 28, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 27, 2026	Radiation (03CH12-HY)
Radio Communication Test Station	Anritsu	MT8000A	6262261912	N/A	May 07, 2025	Nov. 27 2025~ Feb. 14 2026	May 06, 2026	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-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. 21, 2025~ May. 29, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Nov. 21, 2025~ May. 29, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18GHz	Oct. 16, 2025	Nov. 21, 2025~ May. 29, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Nov. 21, 2025~ May. 29, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May. 12, 2025	Nov. 21, 2025~ Feb. 12, 2026	May. 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Nov. 21, 2025~ May. 29, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Nov. 21, 2025~ May. 29, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03,2025	Nov. 21, 2025~ Feb. 12, 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))	6.5 dB

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

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

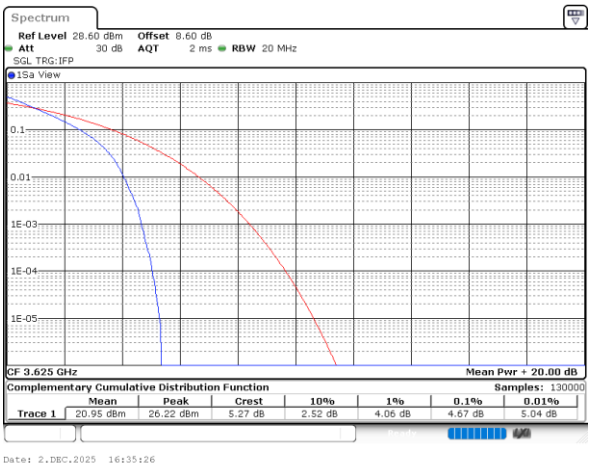
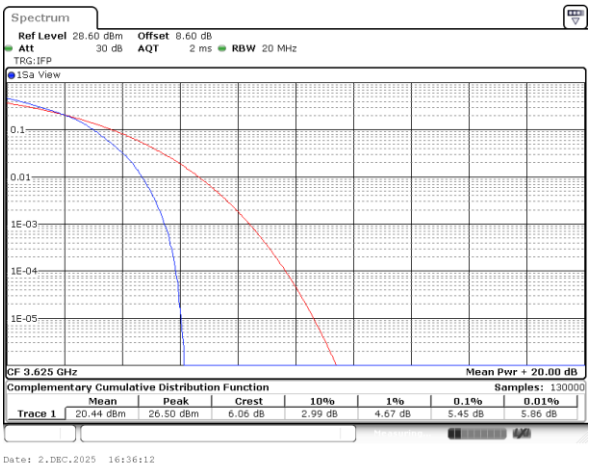
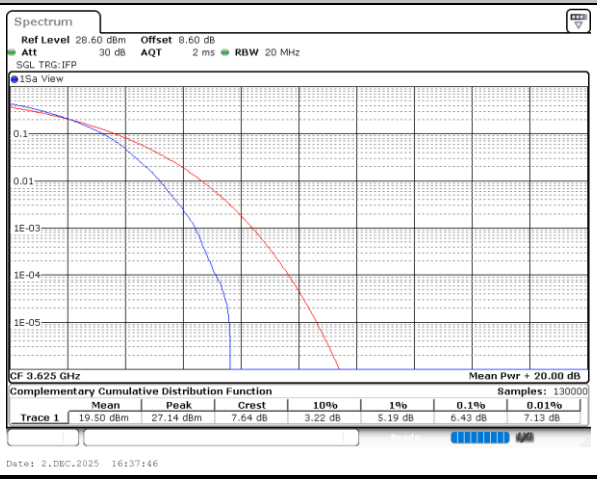
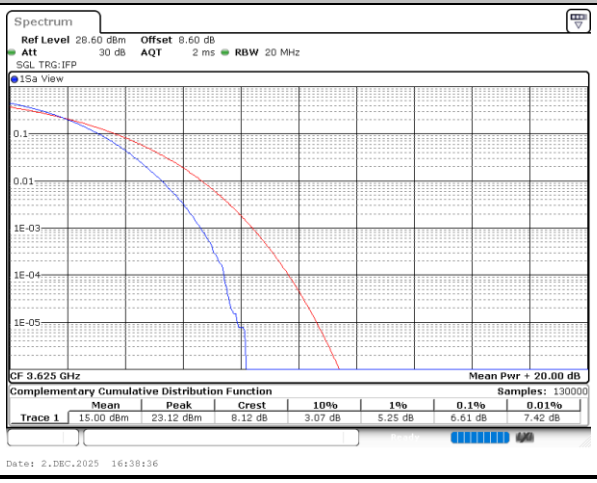
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

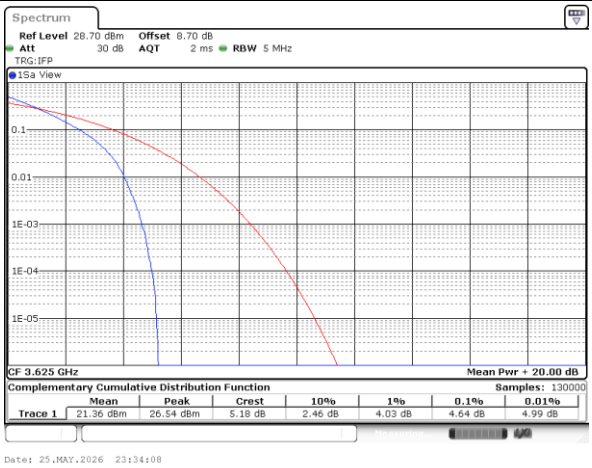
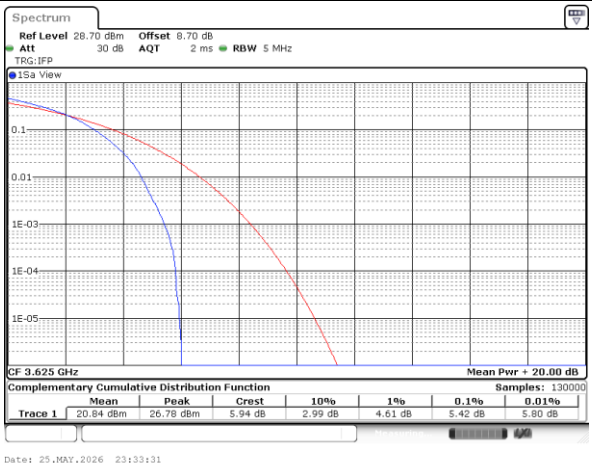
LTE Band 48

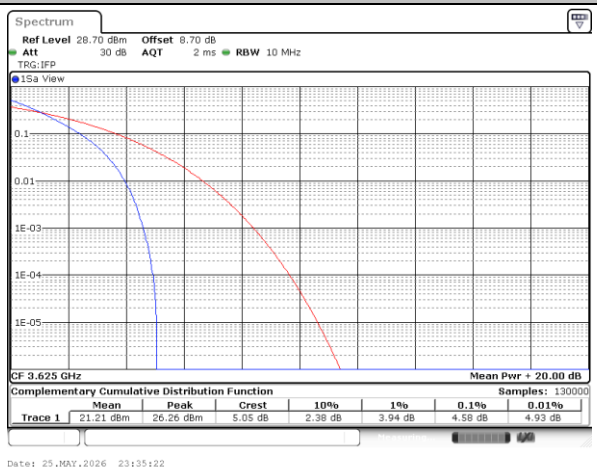
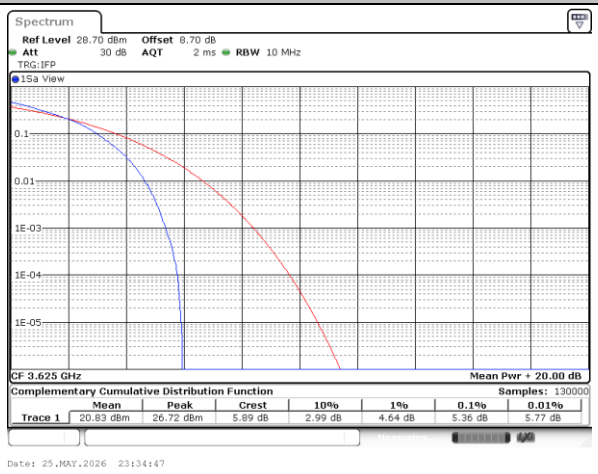
Peak-to-Average Ratio

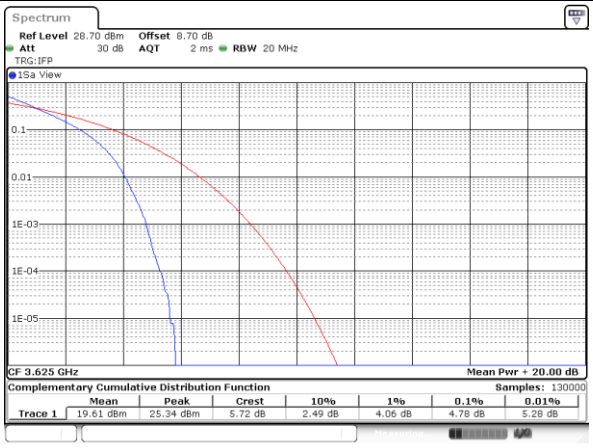
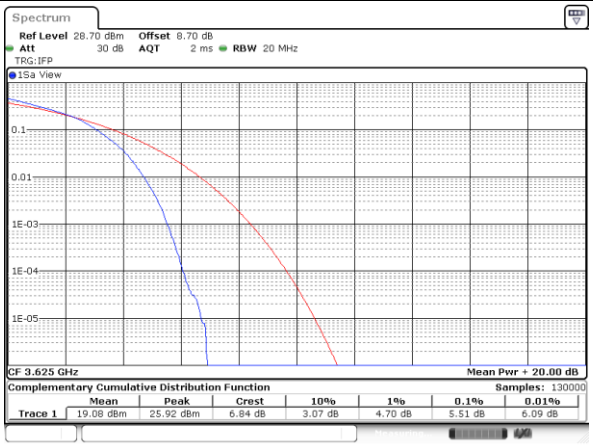
Mode	LTE Band 48 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.45	6.43	6.61	PASS

Mode	LTE Band 48 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.64	5.42	PASS
Mode	LTE Band 48 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.58	5.36	PASS
Mode	LTE Band 48 / 15MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.78	5.51	PASS

LTE Band 48 / 20MHz / QPSK	LTE Band 48 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 48 / 20MHz / 64QAM	LTE Band 48 / 20MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 48 / 5MHz / QPSK	LTE Band 48 / 5MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 48 / 10MHz / QPSK	LTE Band 48 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

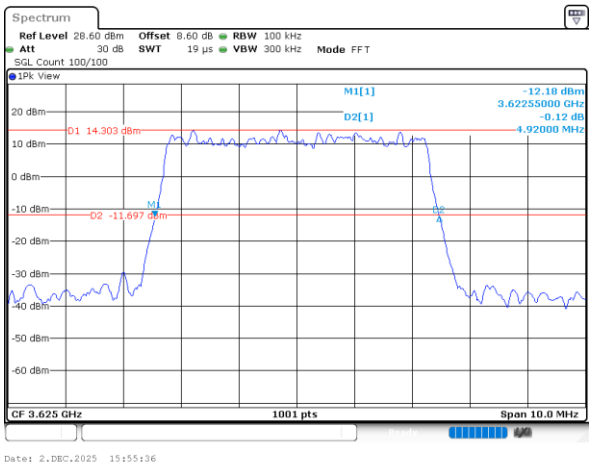
LTE Band 48 / 15MHz / QPSK	LTE Band 48 / 15MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

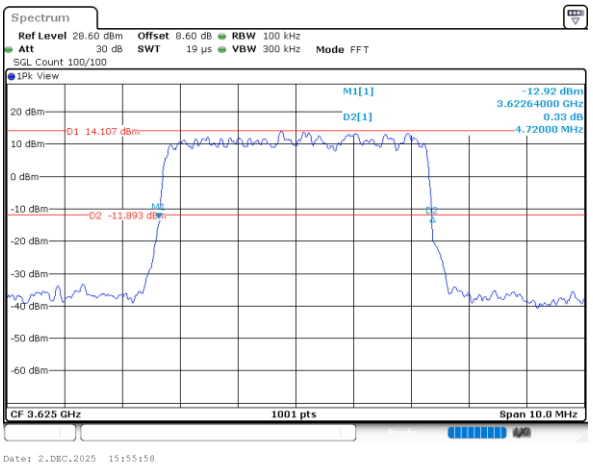
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.92	4.72	9.82	9.72	14.13	14.25	18.80	19.20

LTE Band 48

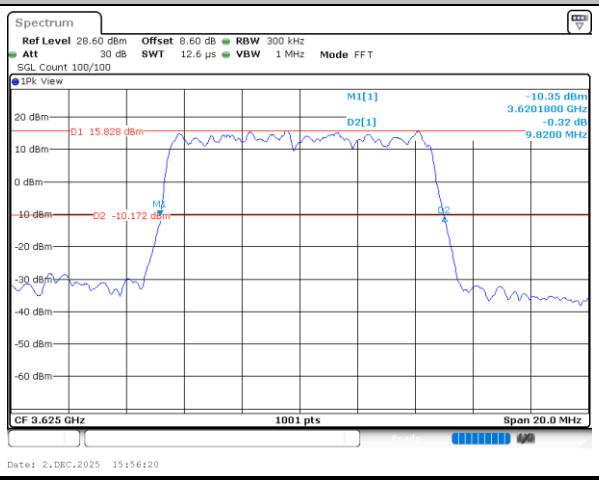
Middle Channel / 5MHz / QPSK



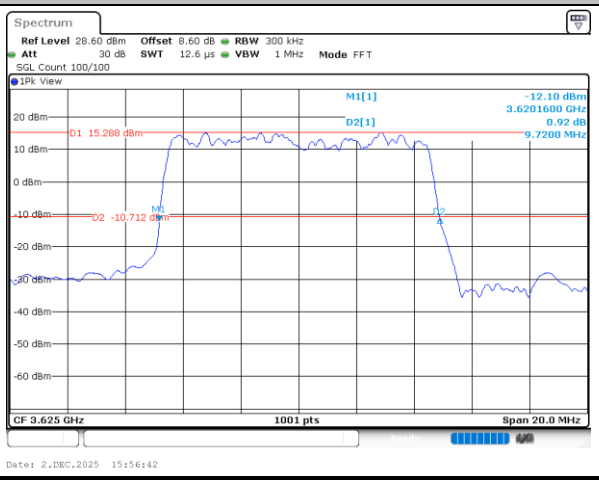
Middle Channel / 5MHz / 16QAM

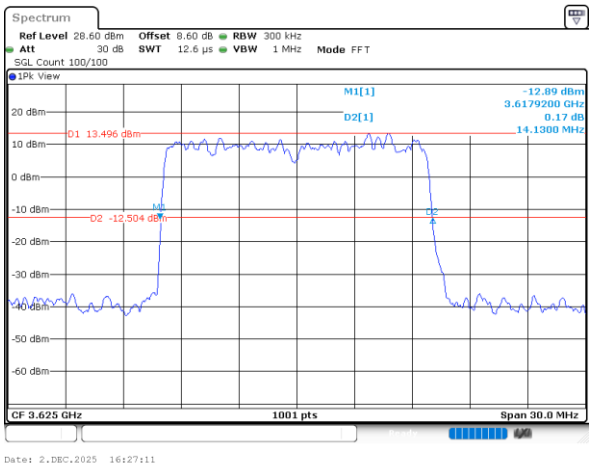
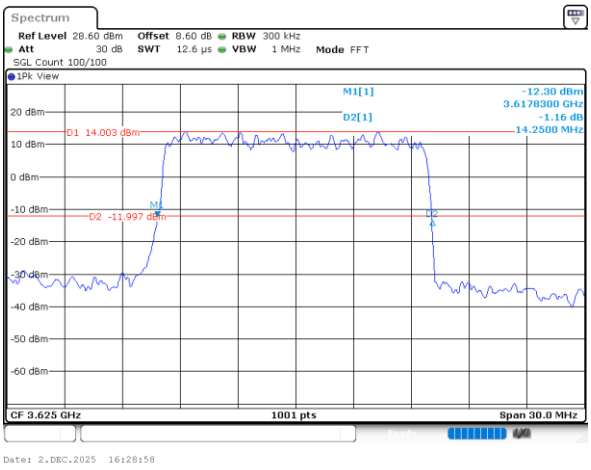
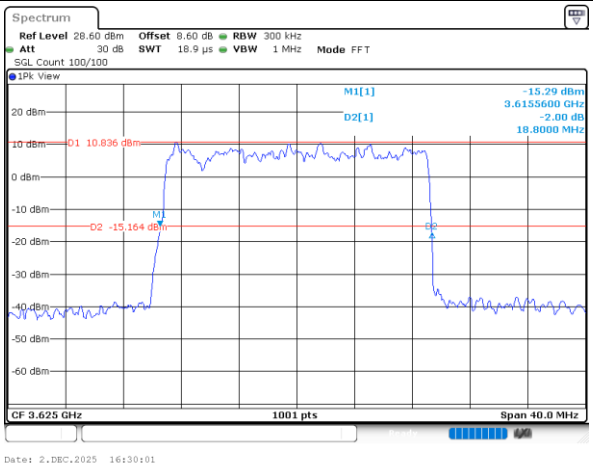
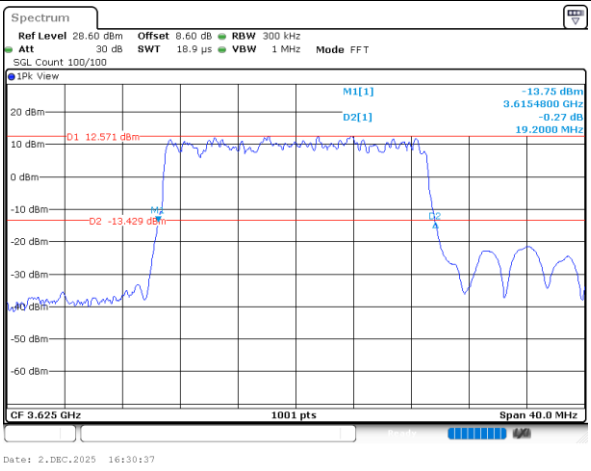


Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



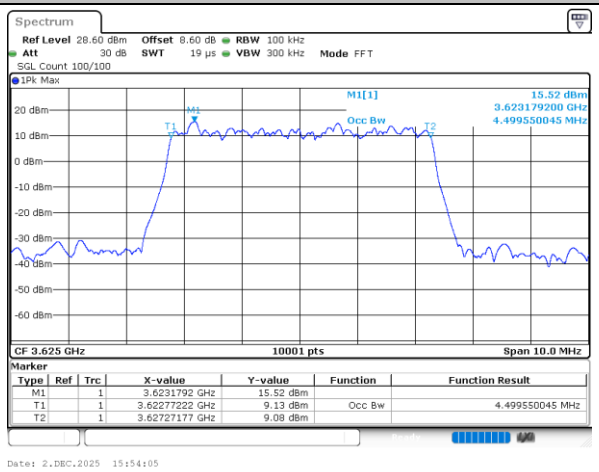
LTE Band 48	
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	

Occupied Bandwidth

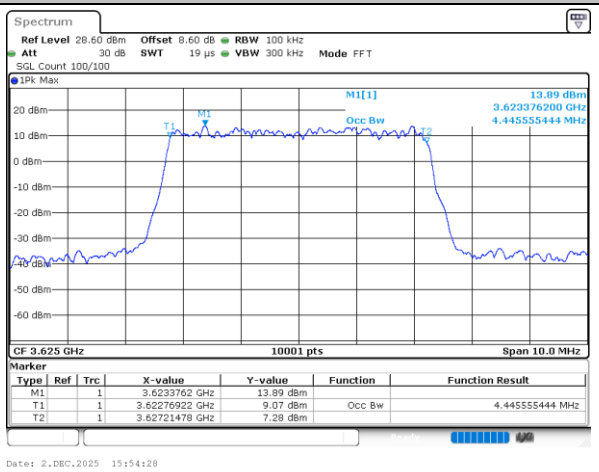
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.44	9.06	9.05	13.47	13.45	17.82	17.82

LTE Band 48

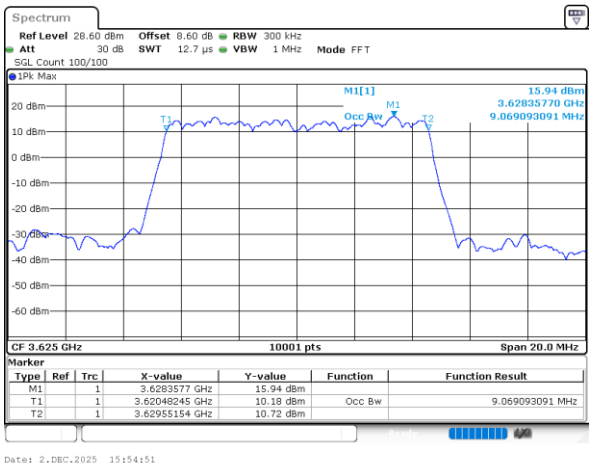
Middle Channel / 5MHz / QPSK



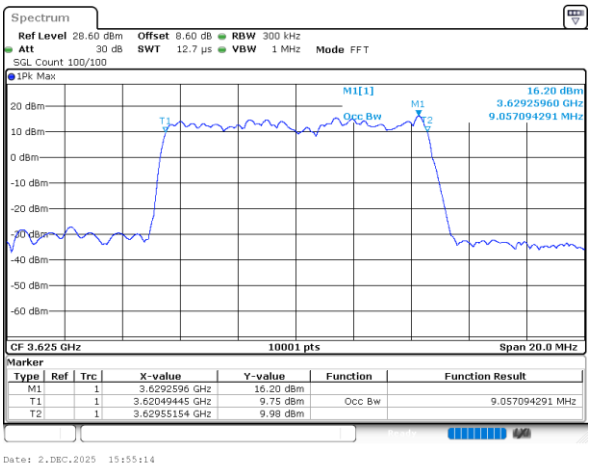
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

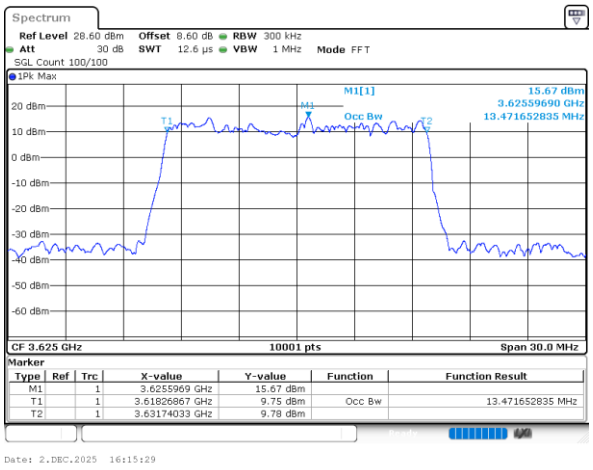


Middle Channel / 10MHz / 16QAM

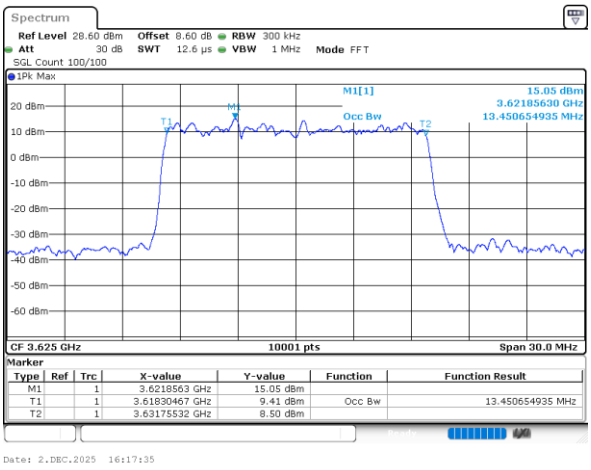


LTE Band 48

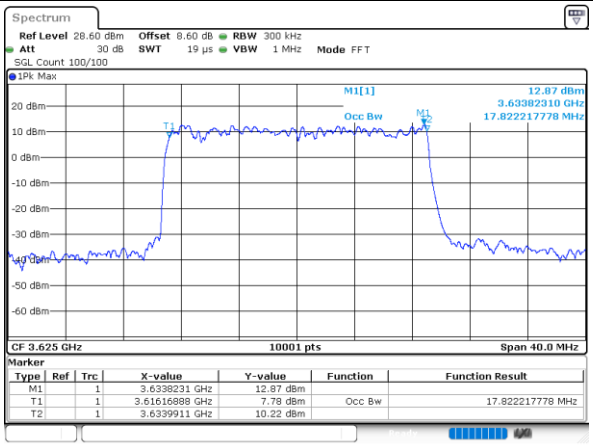
Middle Channel / 15MHz / QPSK



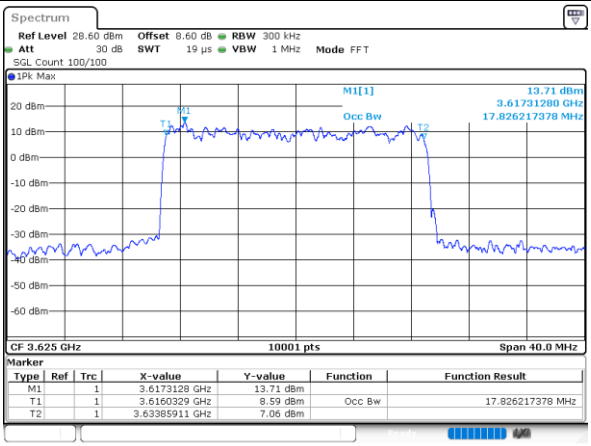
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

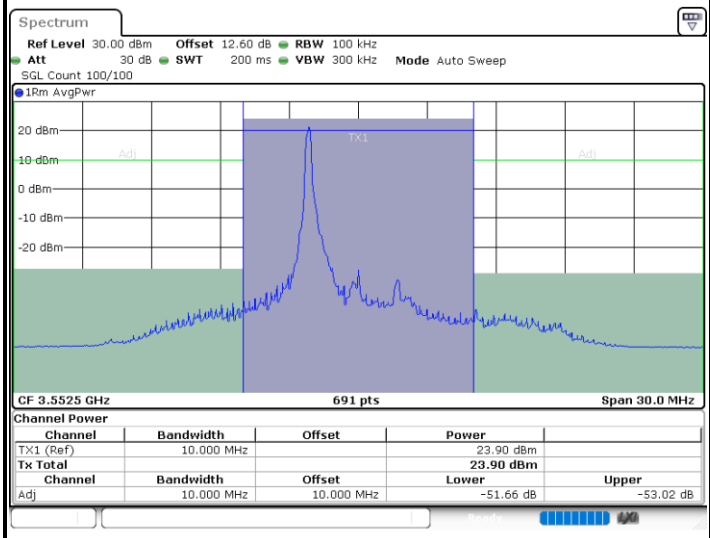


ACLR

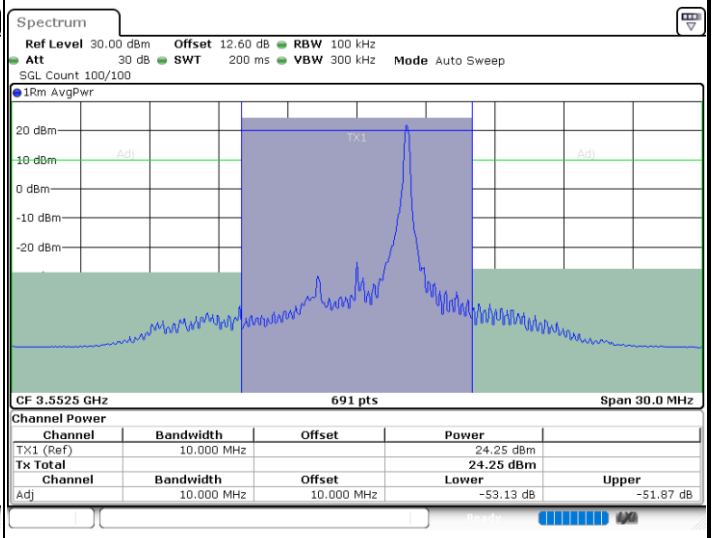
LTE Band 48 / 5MHz

QPSK

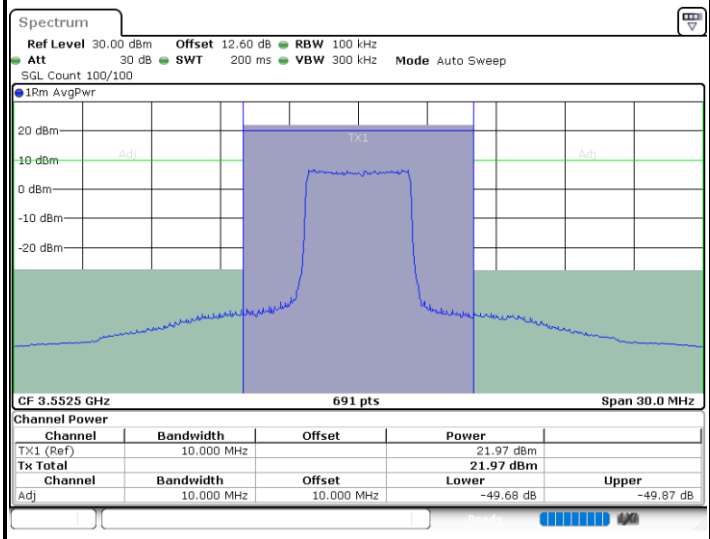
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

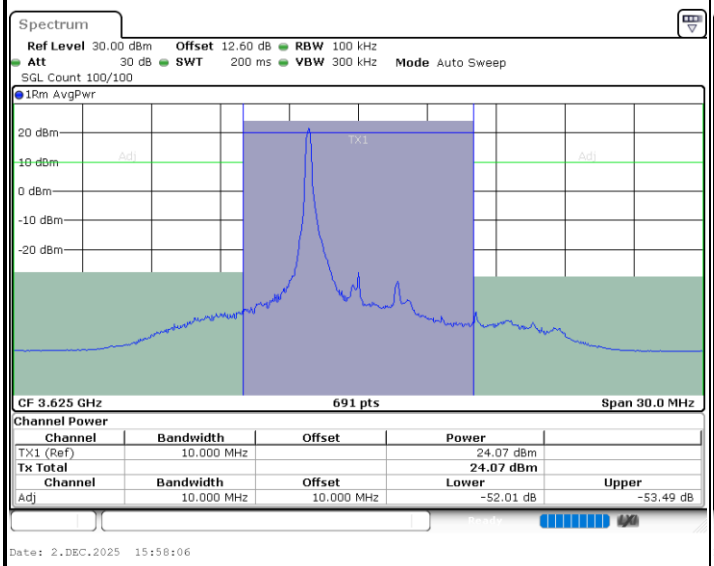


N/A

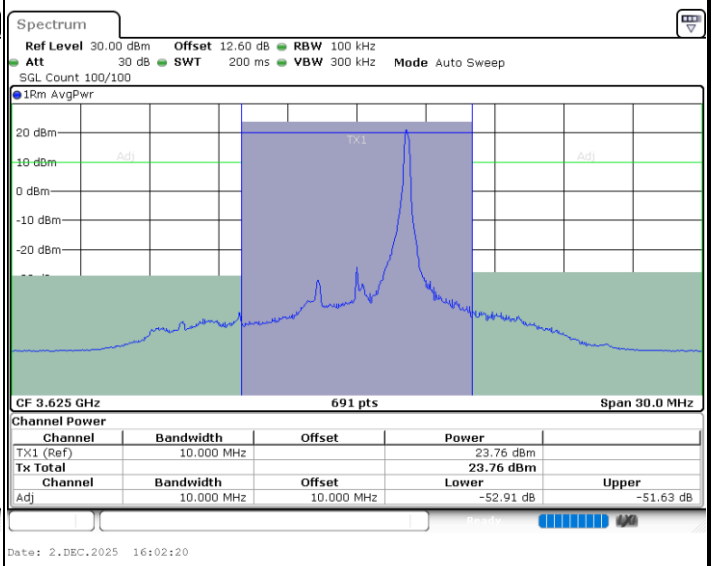
LTE Band 48 / 5MHz

QPSK

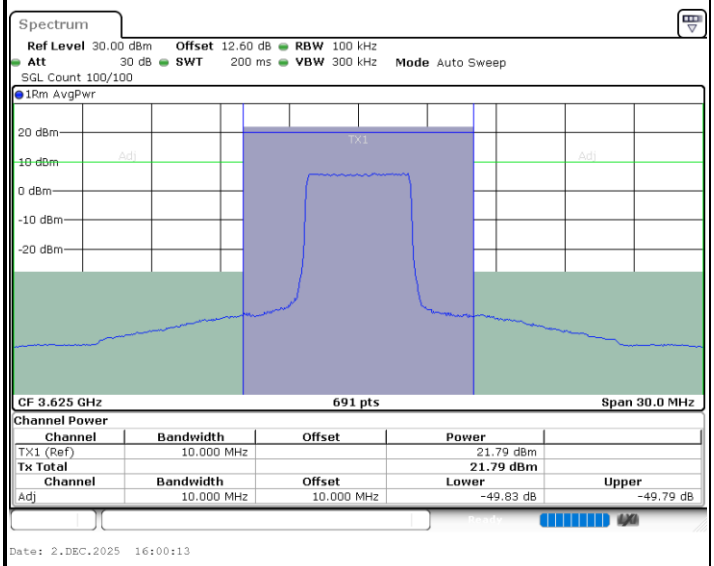
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB

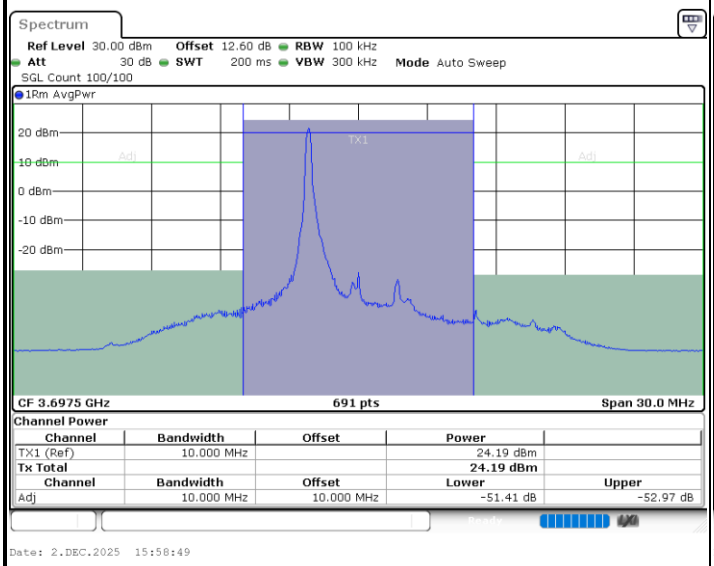


N/A

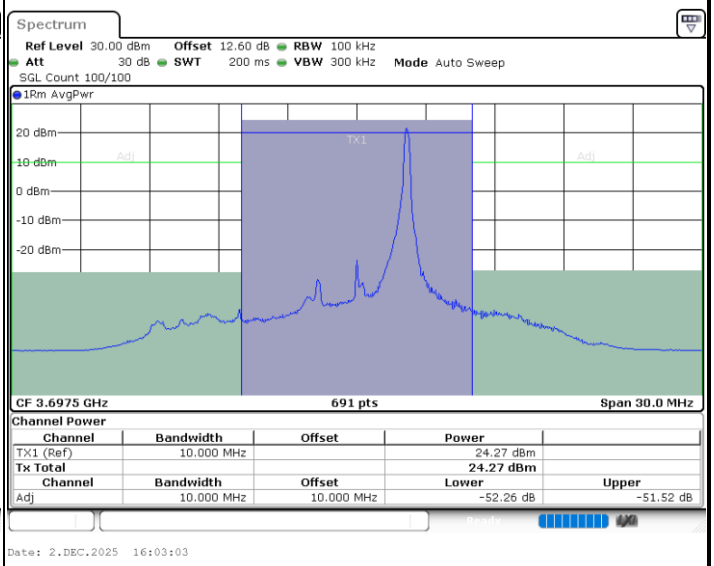
LTE Band 48 / 5MHz

QPSK

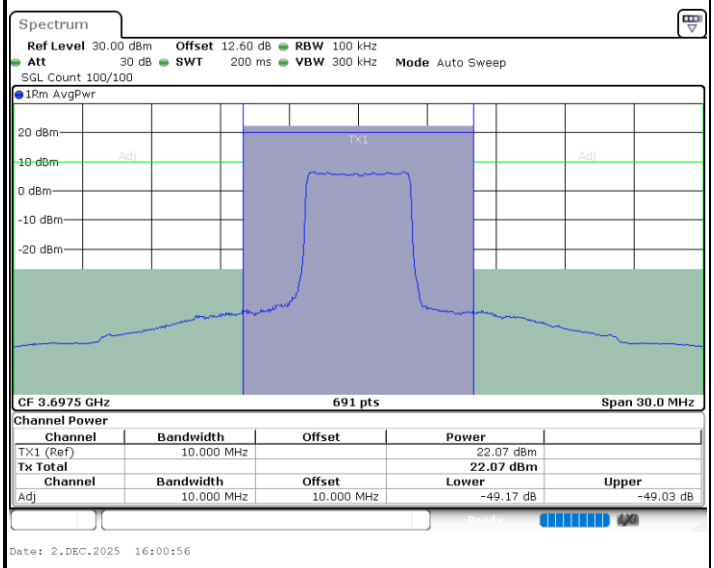
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB

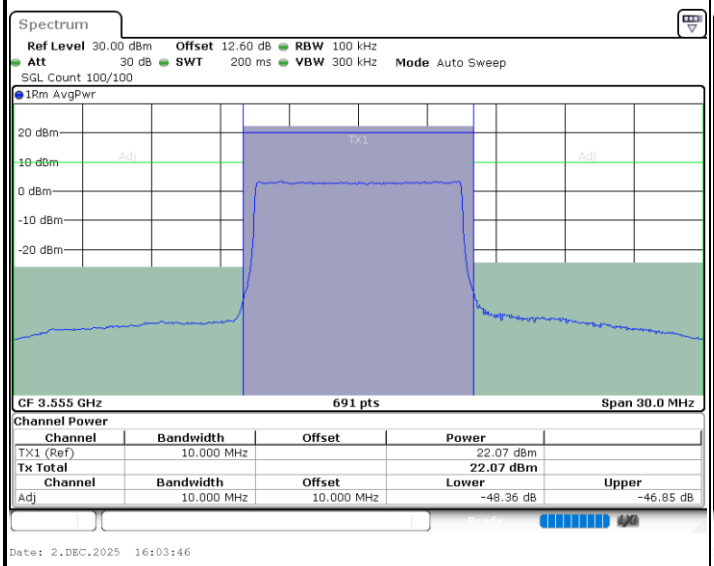


N/A

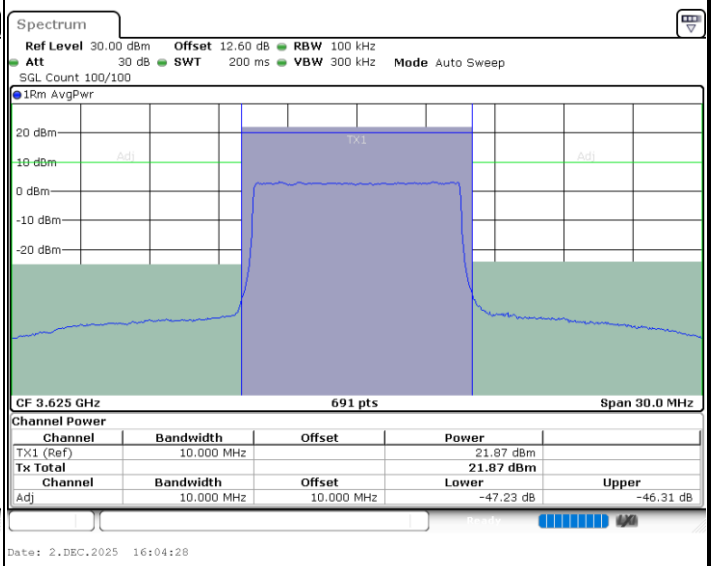
LTE Band 48 / 10MHz

QPSK

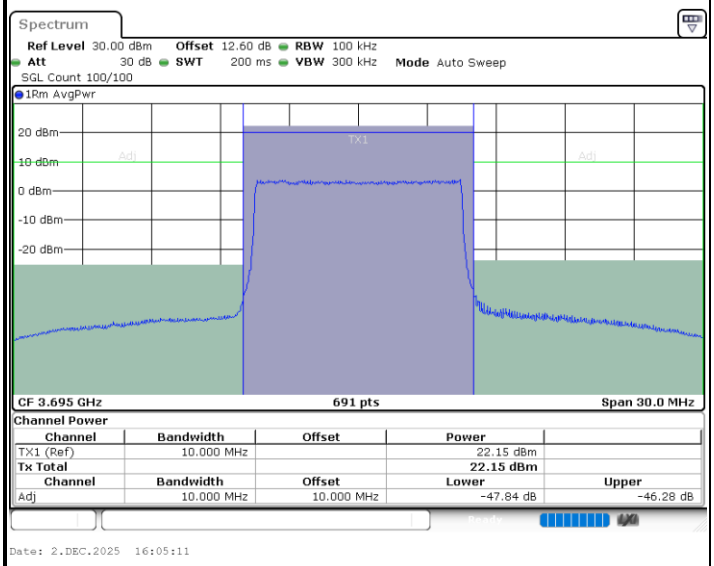
Lowest Channel / FullRB



Middle Channel / FullRB



Highest Channel / FullRB

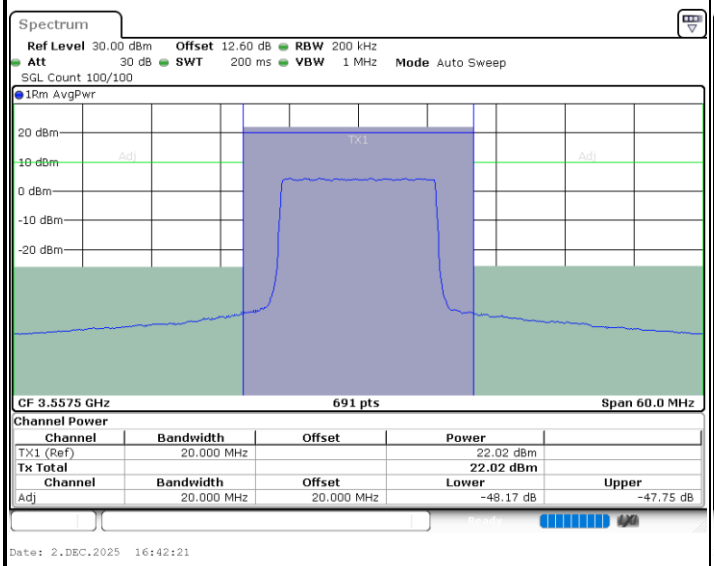


N/A

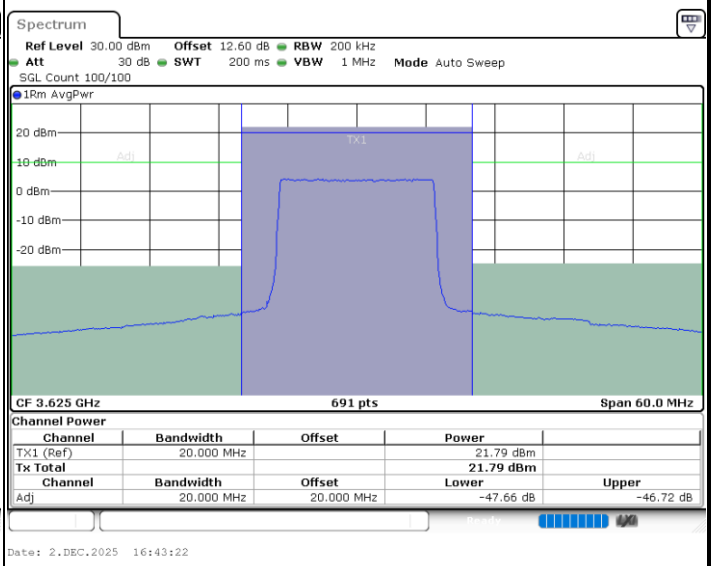
LTE Band 48 / 15MHz

QPSK

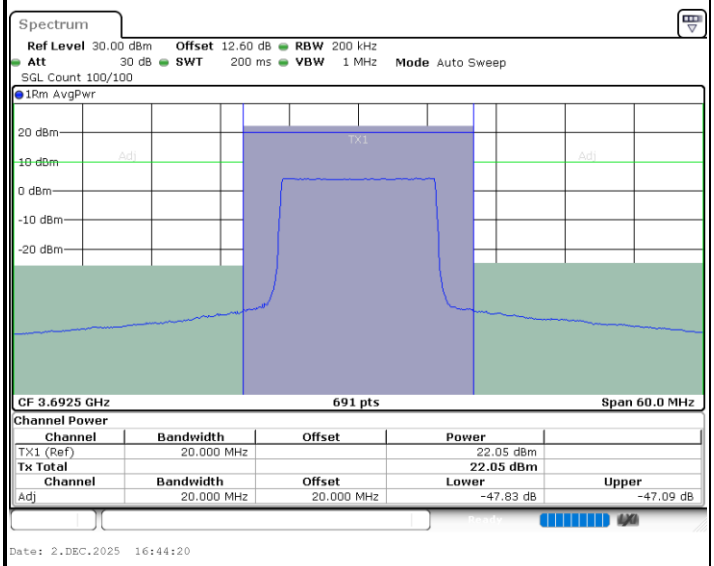
Lowest Channel / FullRB



Middle Channel / FullRB



Highest Channel / FullRB

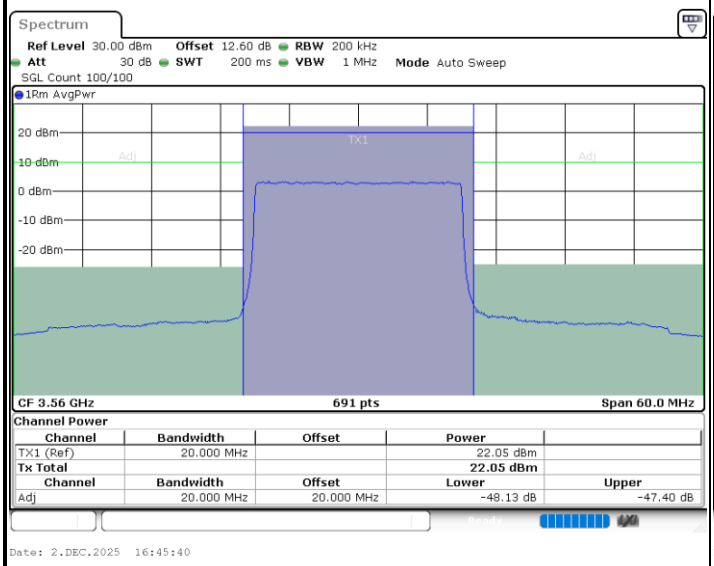


N/A

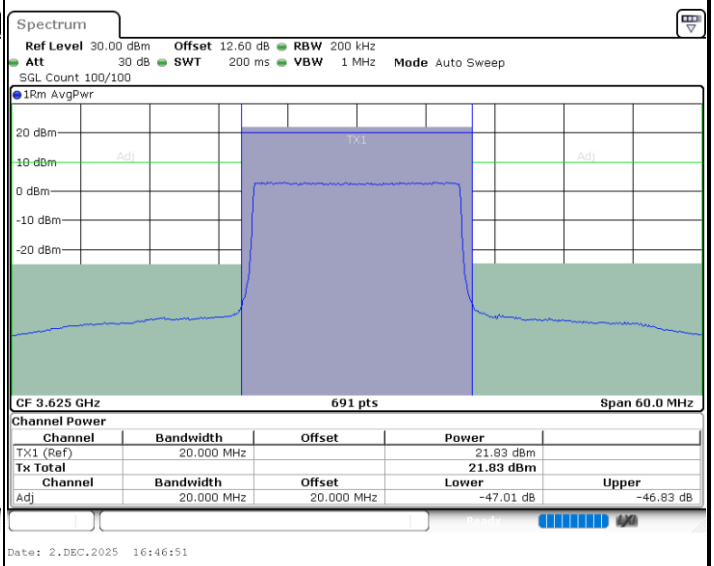
LTE Band 48 / 20MHz

QPSK

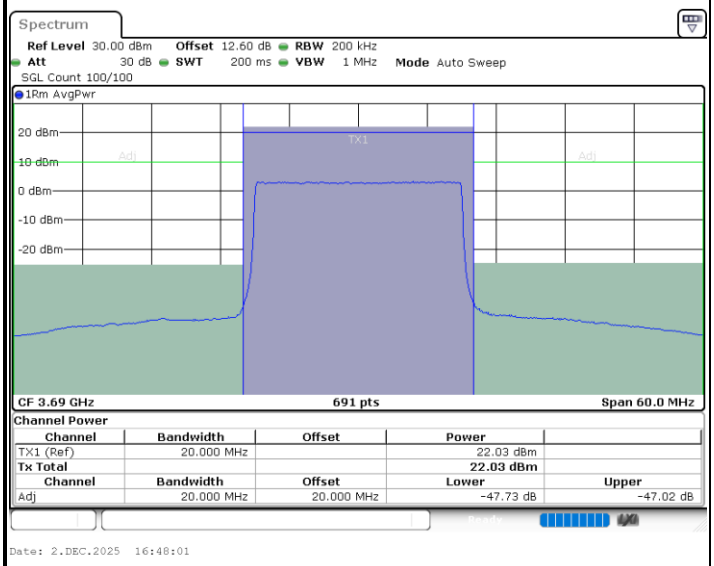
Lowest Channel / FullRB



Middle Channel / FullRB



Highest Channel / FullRB



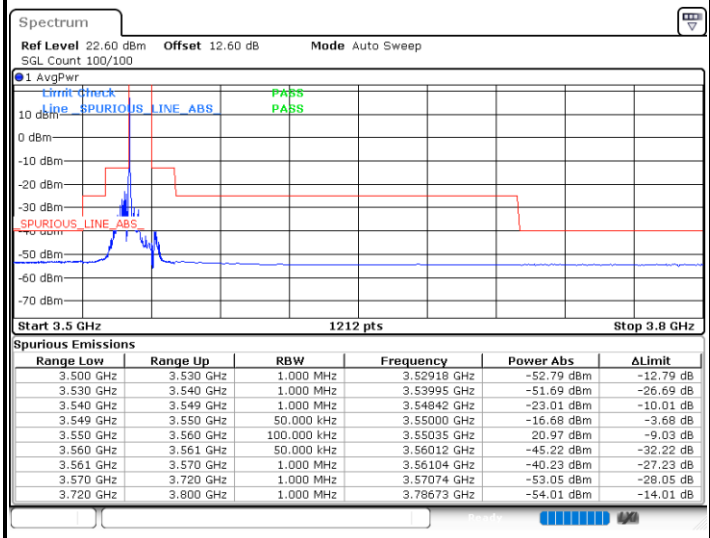
N/A

Conducted Band Edge

LTE Band 48 / 5MHz

QPSK

Lowest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52918 GHz	-52.79 dBm	-12.79 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53995 GHz	-51.69 dBm	-26.69 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54842 GHz	-23.01 dBm	-10.01 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.55000 GHz	-16.68 dBm	-3.68 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55035 GHz	20.97 dBm	-9.03 dB
3.560 GHz	3.561 GHz	50.000 kHz	3.56012 GHz	-45.22 dBm	-32.22 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56104 GHz	-40.23 dBm	-27.23 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57074 GHz	-53.05 dBm	-28.05 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78673 GHz	-54.01 dBm	-14.01 dB

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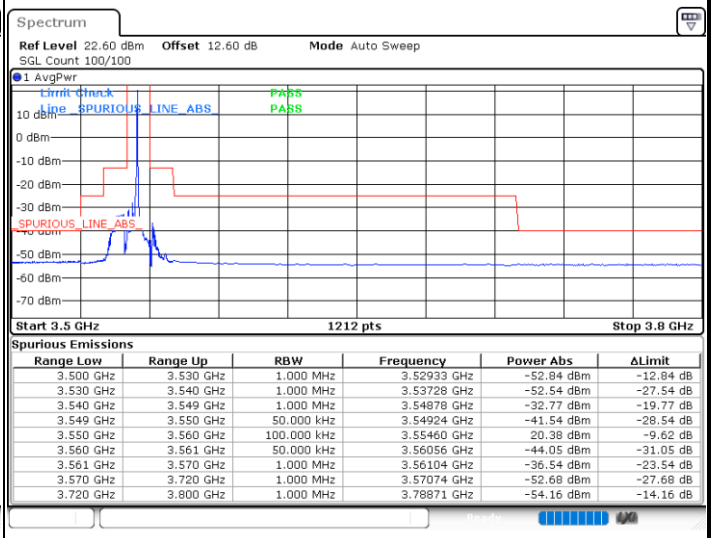
Lowest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52933 GHz	-52.84 dBm	-12.84 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53728 GHz	-52.54 dBm	-27.54 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54878 GHz	-32.77 dBm	-19.77 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54924 GHz	-41.54 dBm	-28.54 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55460 GHz	20.38 dBm	-9.62 dB
3.560 GHz	3.561 GHz	50.000 kHz	3.56056 GHz	-44.05 dBm	-31.05 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56104 GHz	-36.54 dBm	-23.54 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57074 GHz	-52.68 dBm	-27.68 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78871 GHz	-54.16 dBm	-14.16 dB

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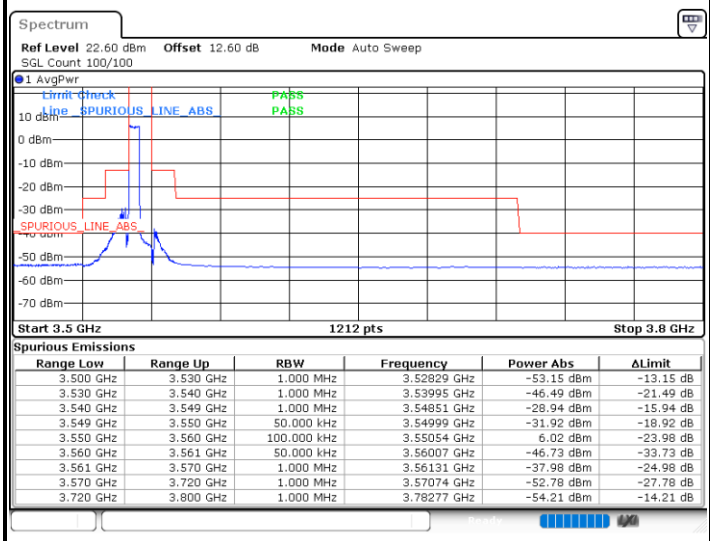
Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52829 GHz	-53.15 dBm	-13.15 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53995 GHz	-46.49 dBm	-21.49 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54851 GHz	-28.94 dBm	-15.94 dB
3.549 GHz	3.550 GHz	50.000 kHz	3.54999 GHz	-31.92 dBm	-18.92 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55054 GHz	6.02 dBm	-23.98 dB
3.560 GHz	3.561 GHz	50.000 kHz	3.56007 GHz	-46.73 dBm	-33.73 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56131 GHz	-37.98 dBm	-24.98 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57074 GHz	-52.78 dBm	-27.78 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78277 GHz	-54.21 dBm	-14.21 dB

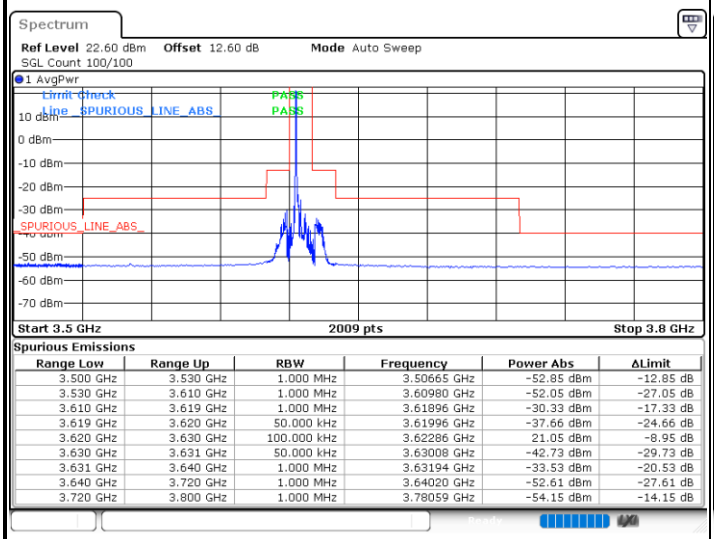
Date: 2.DEC.2025 14:46:44

N/A

LTE Band 48 / 5MHz

QPSK

Middle Channel / 1RB0

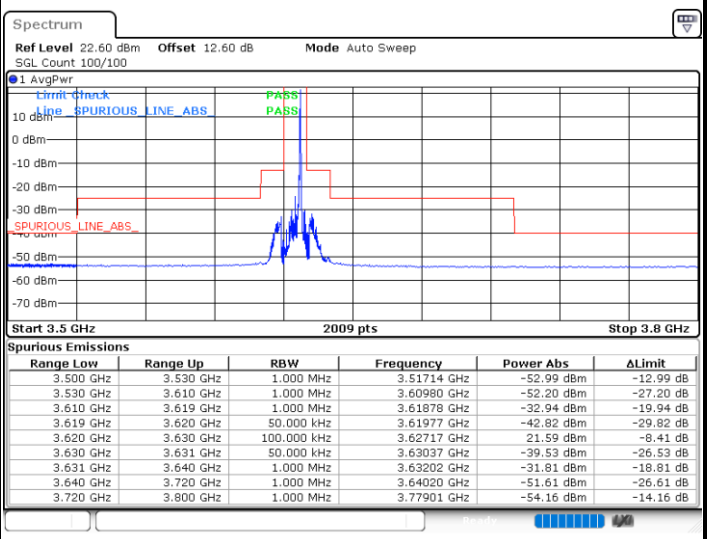


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50665 GHz	-52.85 dBm	-12.85 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-52.05 dBm	-27.05 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61896 GHz	-30.33 dBm	-17.33 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61996 GHz	-37.66 dBm	-24.66 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62286 GHz	21.05 dBm	-8.95 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63008 GHz	-42.73 dBm	-29.73 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63194 GHz	-33.53 dBm	-20.53 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-52.61 dBm	-27.61 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78059 GHz	-54.15 dBm	-14.15 dB

Date: 2.DEC.2025 14:44:41

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51714 GHz	-52.99 dBm	-12.99 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-52.20 dBm	-27.20 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61878 GHz	-32.94 dBm	-19.94 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61977 GHz	-42.82 dBm	-29.82 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62717 GHz	21.59 dBm	-8.41 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63037 GHz	-39.53 dBm	-26.53 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63202 GHz	-31.81 dBm	-18.81 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-51.61 dBm	-26.61 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.77901 GHz	-54.16 dBm	-14.16 dB

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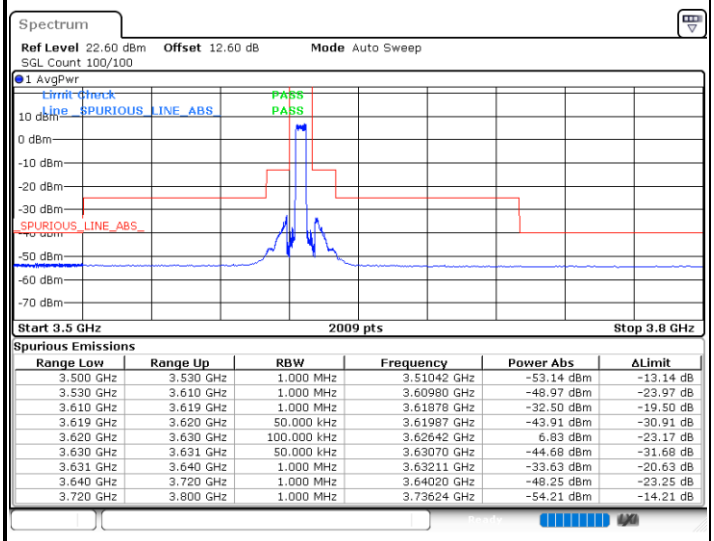
Middle Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51042 GHz	-53.14 dBm	-13.14 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-48.97 dBm	-23.97 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61878 GHz	-32.50 dBm	-19.50 dB
3.619 GHz	3.620 GHz	50.000 kHz	3.61987 GHz	-43.91 dBm	-30.91 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62642 GHz	6.83 dBm	-23.17 dB
3.630 GHz	3.631 GHz	50.000 kHz	3.63070 GHz	-44.68 dBm	-31.68 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63211 GHz	-33.63 dBm	-20.63 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-48.25 dBm	-23.25 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.73624 GHz	-54.21 dBm	-14.21 dB

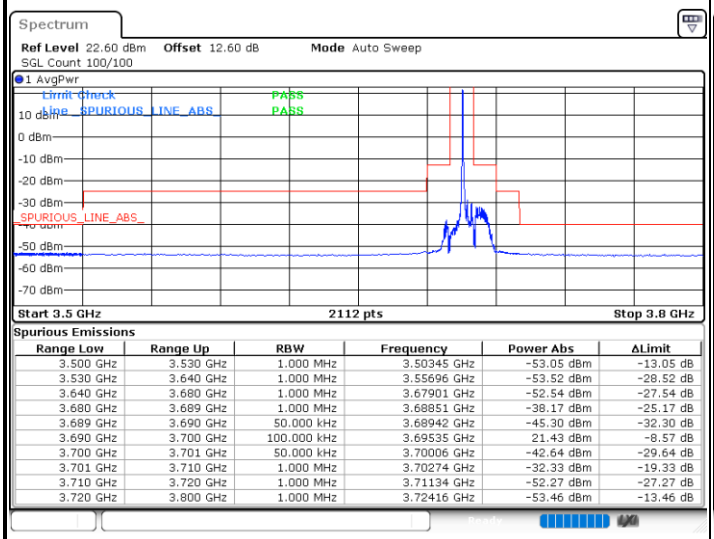
Date: 2.DEC.2025 14:47:46

N/A

LTE Band 48 / 5MHz

QPSK

Highest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50345 GHz	-53.05 dBm	-13.05 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.55696 GHz	-53.52 dBm	-28.52 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67901 GHz	-52.54 dBm	-27.54 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68851 GHz	-38.17 dBm	-25.17 dB
3.689 GHz	3.690 GHz	50.000 kHz	3.68942 GHz	-45.30 dBm	-32.30 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69535 GHz	21.43 dBm	-8.57 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70006 GHz	-42.64 dBm	-29.64 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70274 GHz	-32.33 dBm	-19.33 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71134 GHz	-52.27 dBm	-27.27 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72416 GHz	-53.46 dBm	-13.46 dB

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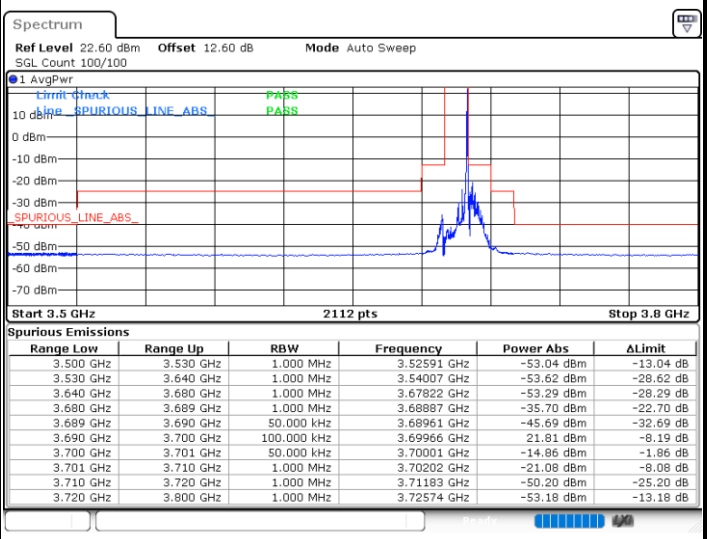
Highest Channel / 1RBmax

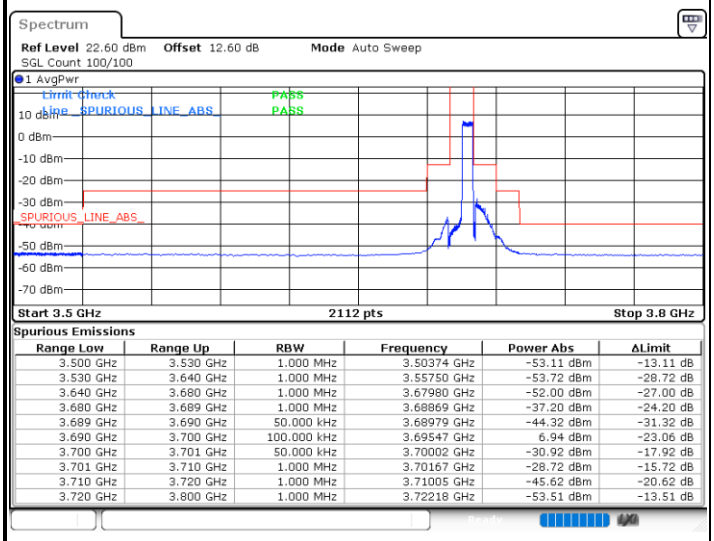


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52591 GHz	-53.04 dBm	-13.04 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.54007 GHz	-53.62 dBm	-28.62 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67822 GHz	-53.29 dBm	-28.29 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68887 GHz	-35.70 dBm	-22.70 dB
3.689 GHz	3.690 GHz	50.000 kHz	3.68961 GHz	-45.69 dBm	-32.69 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69966 GHz	21.81 dBm	-8.19 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70001 GHz	-14.86 dBm	-1.86 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70202 GHz	-21.08 dBm	-8.08 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71183 GHz	-50.20 dBm	-25.20 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72574 GHz	-53.18 dBm	-13.18 dB

Date: 2.DEC.2025 14:51:54

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50374 GHz	-53.11 dBm	-13.11 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.55750 GHz	-53.72 dBm	-28.72 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67980 GHz	-52.00 dBm	-27.00 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68869 GHz	-37.20 dBm	-24.20 dB
3.689 GHz	3.690 GHz	50.000 kHz	3.68979 GHz	-44.32 dBm	-31.32 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69547 GHz	6.94 dBm	-23.06 dB
3.700 GHz	3.701 GHz	50.000 kHz	3.70002 GHz	-30.92 dBm	-17.92 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70167 GHz	-28.72 dBm	-15.72 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-45.62 dBm	-20.62 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72218 GHz	-53.51 dBm	-13.51 dB

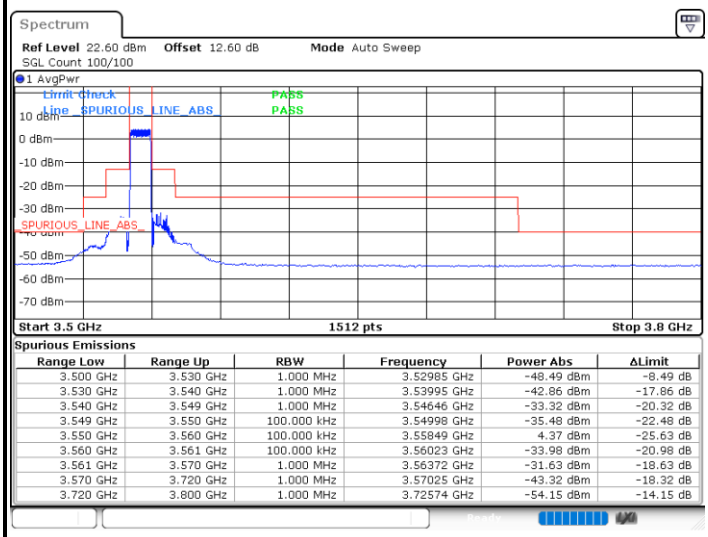
Date: 2.DEC.2025 14:48:48

N/A

LTE Band 48 / 10MHz

QPSK

Lowest Channel / FullRB

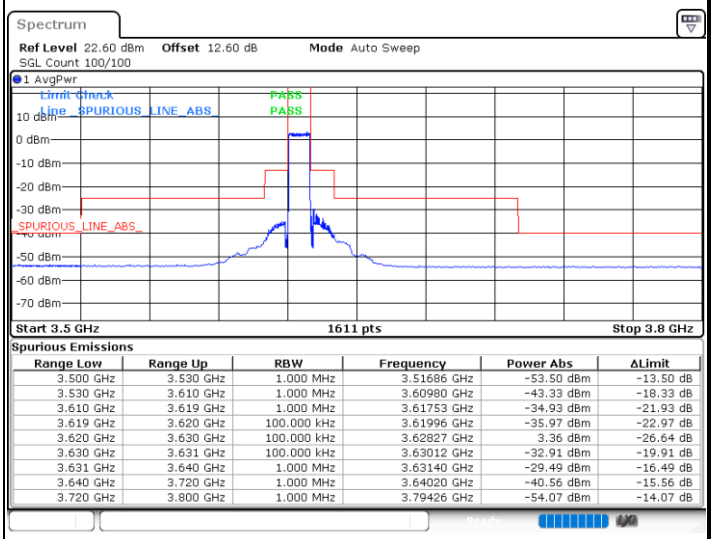


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52985 GHz	-48.49 dBm	-8.49 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53995 GHz	-42.86 dBm	-17.86 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54646 GHz	-33.32 dBm	-20.32 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.54998 GHz	-35.48 dBm	-22.48 dB
3.550 GHz	3.560 GHz	100.000 kHz	3.55849 GHz	4.37 dBm	-25.63 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56023 GHz	-33.98 dBm	-20.98 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56372 GHz	-31.63 dBm	-18.63 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57025 GHz	-43.32 dBm	-18.32 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72574 GHz	-54.15 dBm	-14.15 dB

Date: 2.DEC.2025 16:25:17

Middle Channel / FullRB

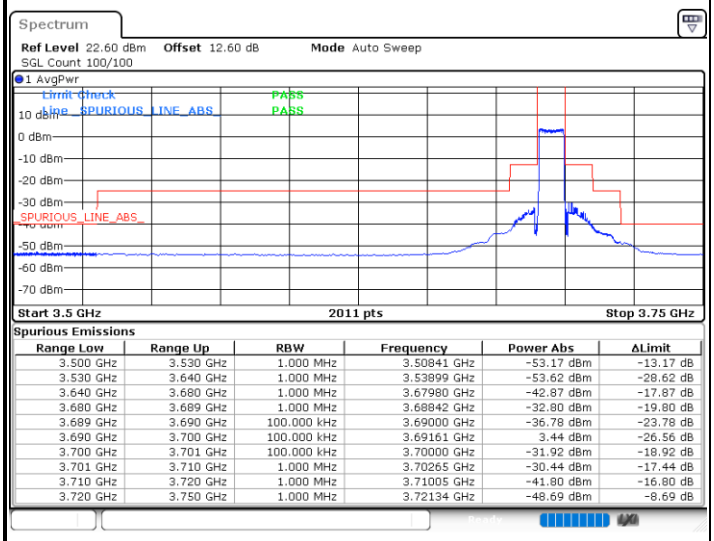


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51686 GHz	-53.50 dBm	-13.50 dB
3.530 GHz	3.610 GHz	1.000 MHz	3.60980 GHz	-43.33 dBm	-18.33 dB
3.610 GHz	3.619 GHz	1.000 MHz	3.61753 GHz	-34.93 dBm	-21.93 dB
3.619 GHz	3.620 GHz	100.000 kHz	3.61996 GHz	-35.97 dBm	-22.97 dB
3.620 GHz	3.630 GHz	100.000 kHz	3.62827 GHz	3.36 dBm	-26.64 dB
3.630 GHz	3.631 GHz	100.000 kHz	3.63012 GHz	-32.91 dBm	-19.91 dB
3.631 GHz	3.640 GHz	1.000 MHz	3.63140 GHz	-29.49 dBm	-16.49 dB
3.640 GHz	3.720 GHz	1.000 MHz	3.64020 GHz	-40.56 dBm	-15.56 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.79426 GHz	-54.07 dBm	-14.07 dB

Date: 2.DEC.2025 14:53:58

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50841 GHz	-53.17 dBm	-13.17 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.53899 GHz	-53.62 dBm	-28.62 dB
3.640 GHz	3.680 GHz	1.000 MHz	3.67980 GHz	-42.87 dBm	-17.87 dB
3.680 GHz	3.689 GHz	1.000 MHz	3.68842 GHz	-32.80 dBm	-19.80 dB
3.689 GHz	3.690 GHz	100.000 kHz	3.69000 GHz	-36.78 dBm	-23.78 dB
3.690 GHz	3.700 GHz	100.000 kHz	3.69161 GHz	3.44 dBm	-26.56 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.70000 GHz	-31.92 dBm	-18.92 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70265 GHz	-30.44 dBm	-17.44 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71005 GHz	-41.80 dBm	-16.80 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72134 GHz	-48.69 dBm	-8.69 dB

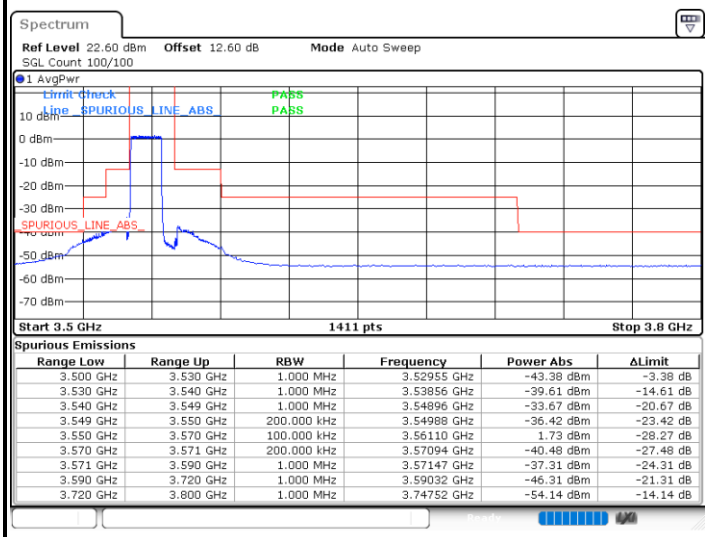
Date: 2.DEC.2025 14:55:00

N/A

LTE Band 48 / 15MHz

QPSK

Lowest Channel / FullRB

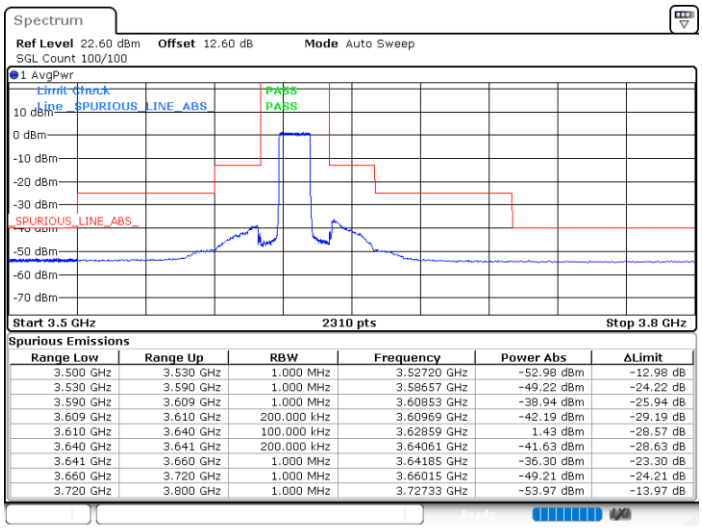


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52955 GHz	-43.38 dBm	-3.38 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53856 GHz	-39.61 dBm	-14.61 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54896 GHz	-33.67 dBm	-20.67 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54988 GHz	-36.42 dBm	-23.42 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56110 GHz	1.73 dBm	-28.27 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57094 GHz	-40.48 dBm	-27.48 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57147 GHz	-37.31 dBm	-24.31 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.59032 GHz	-46.31 dBm	-21.31 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.74752 GHz	-54.14 dBm	-14.14 dB

Date: 2.DEC.2025 15:19:12

Middle Channel / FullRB

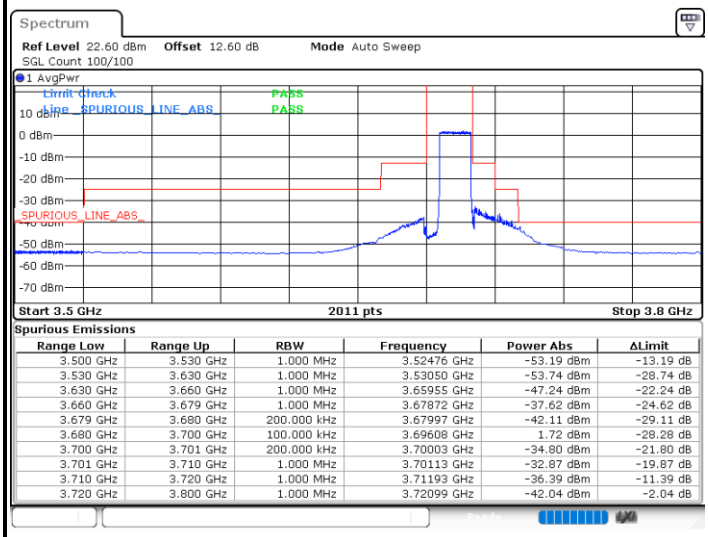


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52720 GHz	-52.98 dBm	-12.98 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.58657 GHz	-49.22 dBm	-24.22 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60853 GHz	-38.94 dBm	-25.94 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60969 GHz	-42.19 dBm	-29.19 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.62859 GHz	1.43 dBm	-28.57 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64061 GHz	-41.63 dBm	-28.63 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64185 GHz	-36.30 dBm	-23.30 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66015 GHz	-49.21 dBm	-24.21 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72733 GHz	-53.97 dBm	-13.97 dB

Date: 2.DEC.2025 15:21:47

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52476 GHz	-53.19 dBm	-13.19 dB
3.530 GHz	3.630 GHz	1.000 MHz	3.53050 GHz	-53.74 dBm	-28.74 dB
3.630 GHz	3.660 GHz	1.000 MHz	3.65955 GHz	-47.24 dBm	-22.24 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67872 GHz	-37.62 dBm	-24.62 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67997 GHz	-42.11 dBm	-29.11 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69608 GHz	1.72 dBm	-28.28 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70003 GHz	-34.80 dBm	-21.80 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70113 GHz	-32.87 dBm	-19.87 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71193 GHz	-36.39 dBm	-11.39 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72099 GHz	-42.04 dBm	-2.04 dB

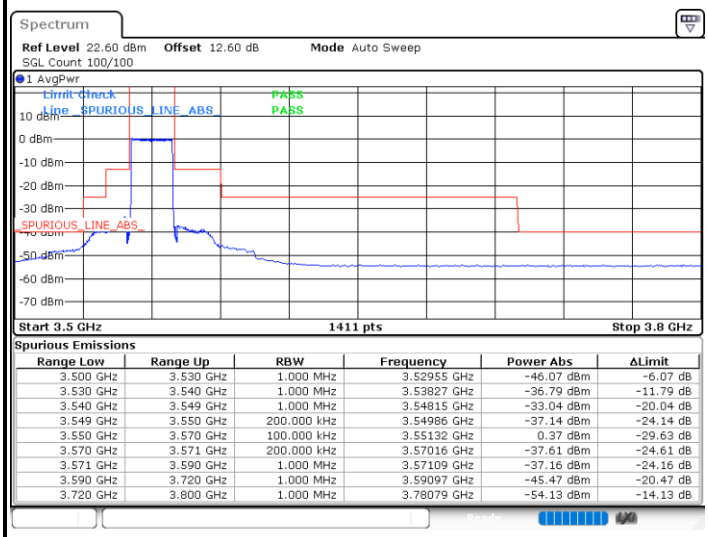
Date: 2.DEC.2025 15:25:04

N/A

LTE Band 48 / 20MHz

QPSK

Lowest Channel / FullRB

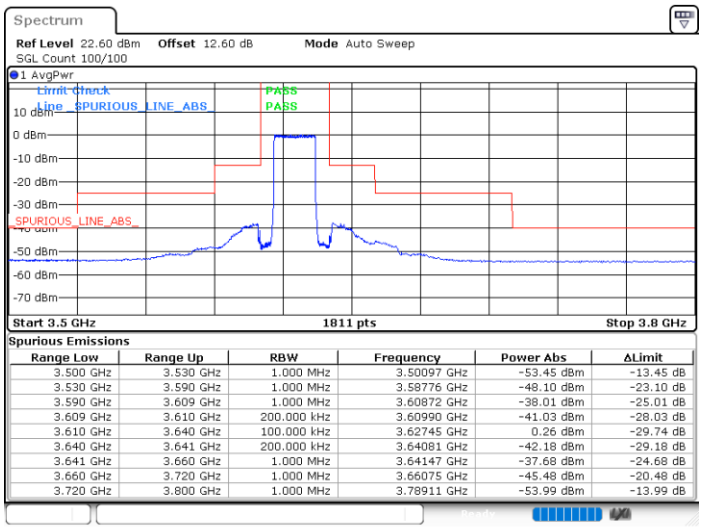


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52955 GHz	-46.07 dBm	-6.07 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53827 GHz	-36.79 dBm	-11.79 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54815 GHz	-33.04 dBm	-20.04 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54986 GHz	-37.14 dBm	-24.14 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55132 GHz	0.37 dBm	-29.63 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57016 GHz	-37.61 dBm	-24.61 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57109 GHz	-37.16 dBm	-24.16 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.59097 GHz	-45.47 dBm	-20.47 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78079 GHz	-54.13 dBm	-14.13 dB

Date: 2.DEC.2025 15:27:03

Middle Channel / FullRB

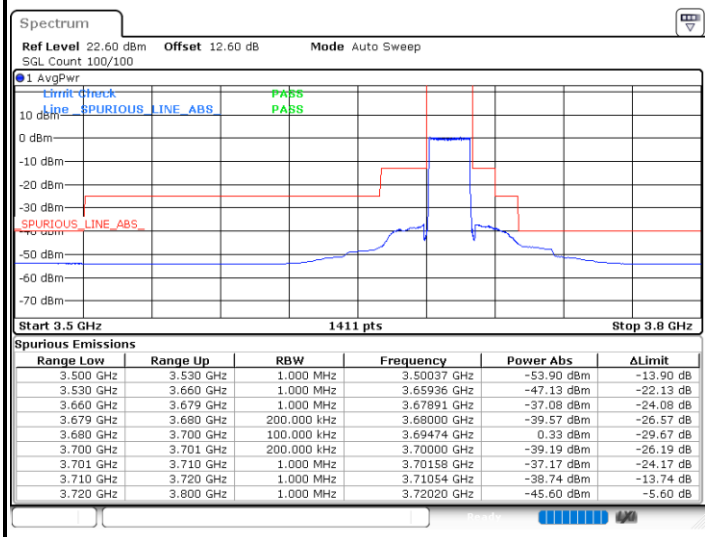


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50097 GHz	-53.45 dBm	-13.45 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.58776 GHz	-48.10 dBm	-23.10 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60872 GHz	-38.01 dBm	-25.01 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60990 GHz	-41.03 dBm	-28.03 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.62745 GHz	0.26 dBm	-29.74 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64081 GHz	-42.18 dBm	-29.18 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64147 GHz	-37.68 dBm	-24.68 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66075 GHz	-45.48 dBm	-20.48 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.78911 GHz	-53.99 dBm	-13.99 dB

Date: 2.DEC.2025 15:28:36

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.50037 GHz	-53.90 dBm	-13.90 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.65936 GHz	-47.13 dBm	-22.13 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-37.08 dBm	-24.08 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.68000 GHz	-39.57 dBm	-26.57 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69474 GHz	0.33 dBm	-29.67 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70000 GHz	-39.19 dBm	-26.19 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70158 GHz	-37.17 dBm	-24.17 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71054 GHz	-38.74 dBm	-13.74 dB
3.720 GHz	3.800 GHz	1.000 MHz	3.72020 GHz	-45.60 dBm	-5.60 dB

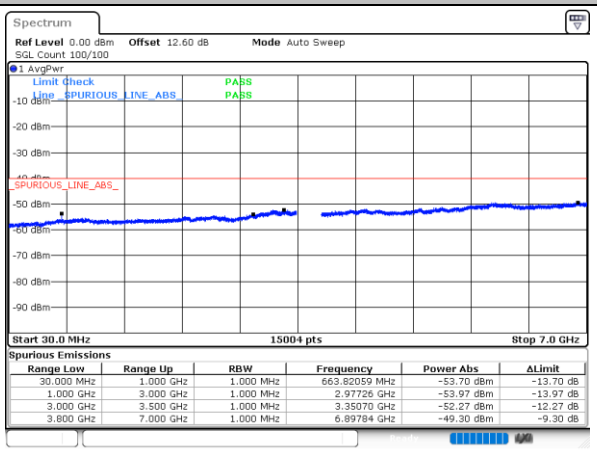
Date: 2.DEC.2025 15:35:56

N/A

Conducted Spurious Emission

LTE Band 48 / 5MHz

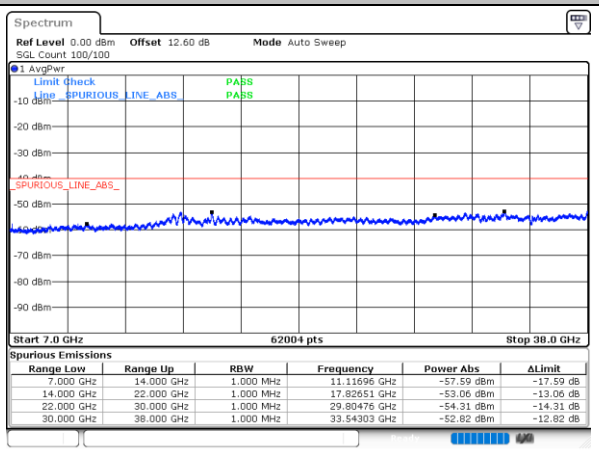
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-53.70 dBm	-13.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97726 GHz	-53.97 dBm	-13.97 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35070 GHz	-52.27 dBm	-12.27 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.89784 GHz	-49.30 dBm	-9.30 dB

Date: 2.DEC.2025 14:56:03

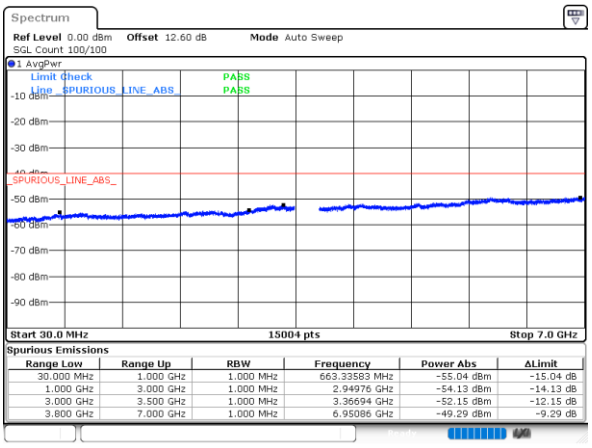


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	11.11696 GHz	-57.59 dBm	-17.59 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.82651 GHz	-53.06 dBm	-13.06 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80476 GHz	-54.31 dBm	-14.31 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.54303 GHz	-52.82 dBm	-12.82 dB

Date: 2.DEC.2025 17:06:19

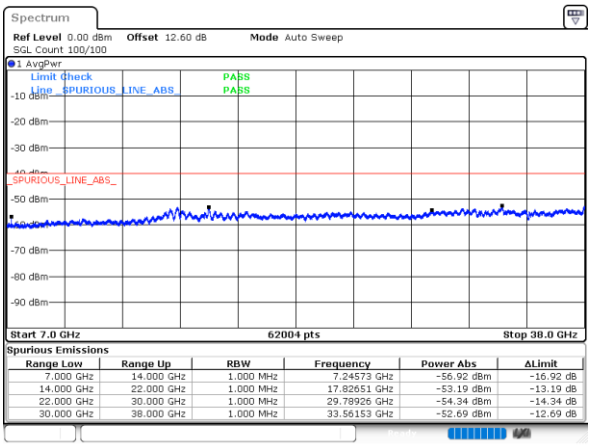
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.33583 MHz	-55.04 dBm	-15.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94976 GHz	-54.13 dBm	-14.13 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.36694 GHz	-52.15 dBm	-12.15 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.95086 GHz	-49.29 dBm	-9.29 dB

Date: 2.DEC.2025 14:57:05

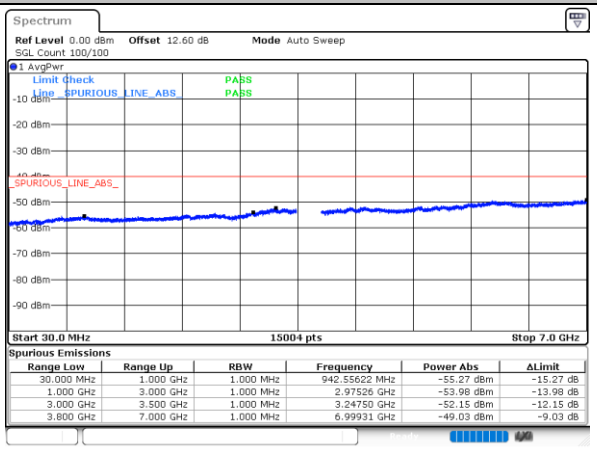


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.24573 GHz	-56.92 dBm	-16.92 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.82651 GHz	-53.19 dBm	-13.19 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.78926 GHz	-54.34 dBm	-14.34 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.56153 GHz	-52.69 dBm	-12.69 dB

Date: 2.DEC.2025 17:07:31

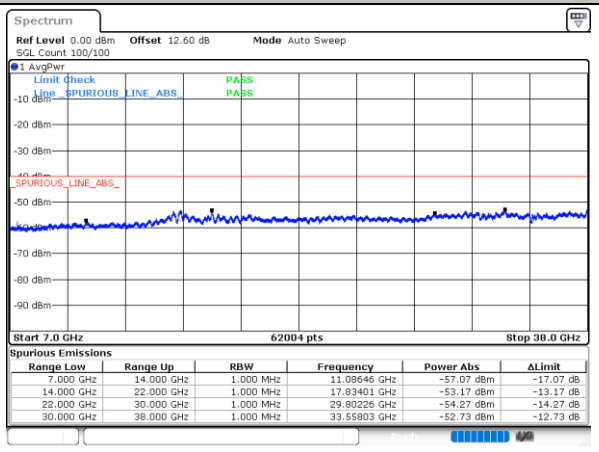
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.55622 MHz	-55.27 dBm	-15.27 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97526 GHz	-53.98 dBm	-13.98 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.24750 GHz	-52.15 dBm	-12.15 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.99931 GHz	-49.03 dBm	-9.03 dB

Date: 2.DEC.2025 14:58:07



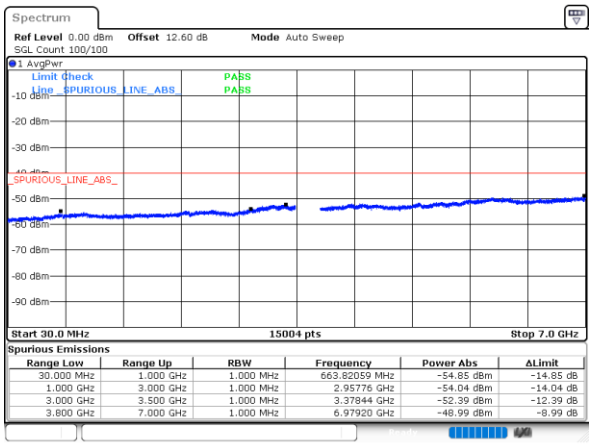
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	11.08646 GHz	-57.07 dBm	-17.07 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.83401 GHz	-53.17 dBm	-13.17 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80226 GHz	-54.27 dBm	-14.27 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.55803 GHz	-52.73 dBm	-12.73 dB

Date: 2.DEC.2025 17:08:44

LTE Band 48 / 10MHz

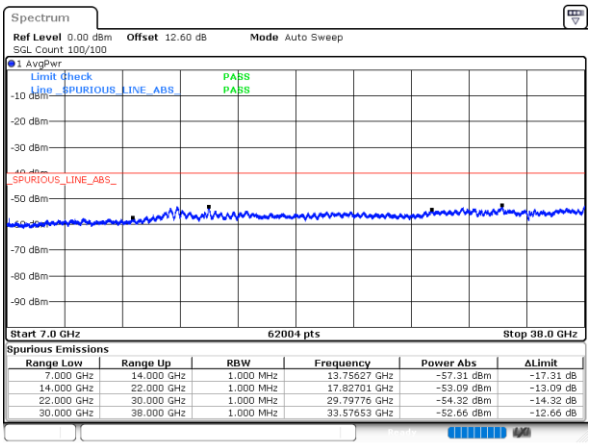
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-54.85 dBm	-14.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95776 GHz	-54.04 dBm	-14.04 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.37844 GHz	-52.39 dBm	-12.39 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.97920 GHz	-48.99 dBm	-8.99 dB

Date: 2.DEC.2025 14:59:10

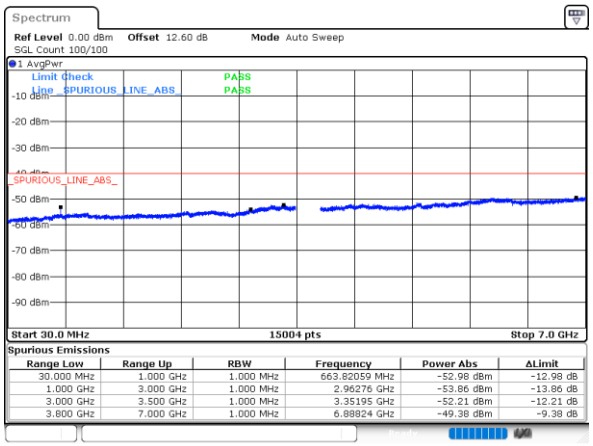


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.75627 GHz	-57.31 dBm	-17.31 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.82701 GHz	-53.09 dBm	-13.09 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79776 GHz	-54.32 dBm	-14.32 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.57653 GHz	-52.66 dBm	-12.66 dB

Date: 2.DEC.2025 17:13:46

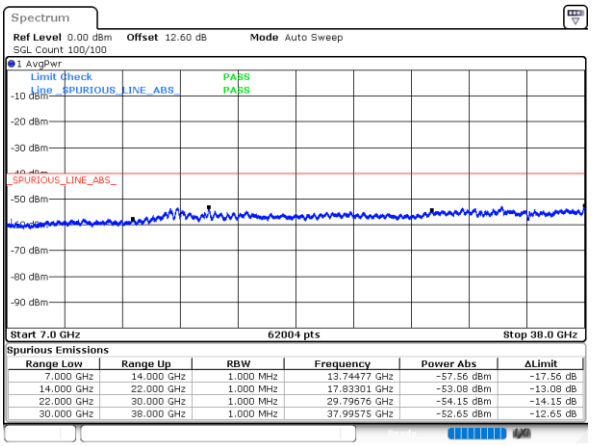
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-52.98 dBm	-12.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96276 GHz	-53.86 dBm	-13.86 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35195 GHz	-52.21 dBm	-12.21 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.88824 GHz	-49.38 dBm	-9.38 dB

Date: 2.DEC.2025 15:00:12

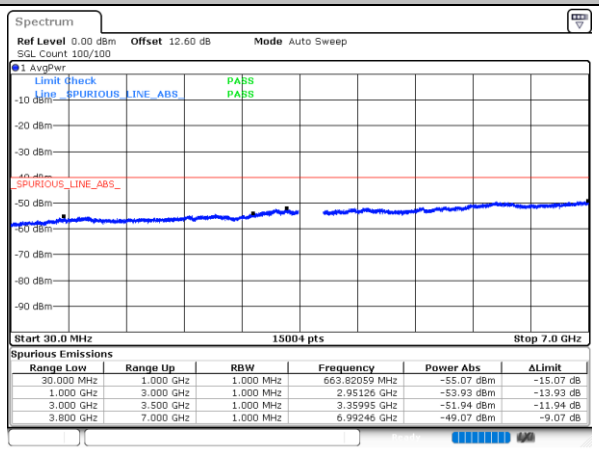


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	13.74477 GHz	-57.56 dBm	-17.56 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.83301 GHz	-53.08 dBm	-13.08 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79676 GHz	-54.15 dBm	-14.15 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.99575 GHz	-52.65 dBm	-12.65 dB

Date: 2.DEC.2025 17:14:59

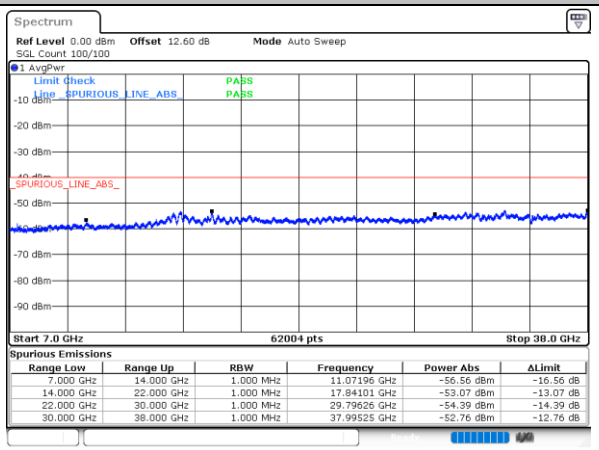
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-55.07 dBm	-15.07 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95126 GHz	-53.93 dBm	-13.93 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35995 GHz	-51.94 dBm	-11.94 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.99246 GHz	-49.07 dBm	-9.07 dB

Date: 2.DEC.2025 15:01:14



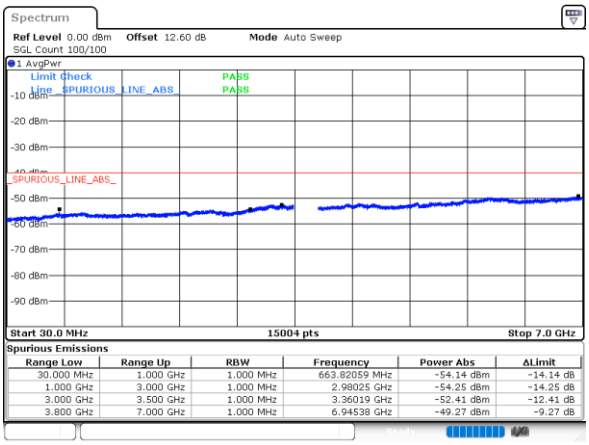
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	11.07196 GHz	-56.56 dBm	-16.56 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.84101 GHz	-53.07 dBm	-13.07 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79626 GHz	-54.39 dBm	-14.39 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.99525 GHz	-52.76 dBm	-12.76 dB

Date: 2.DEC.2025 17:16:12

LTE Band 48 / 15MHz

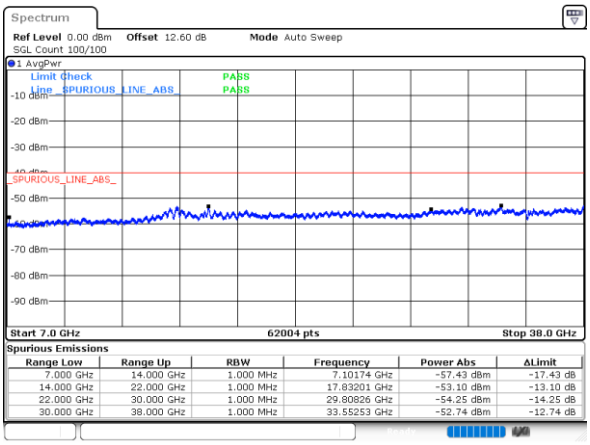
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-54.14 dBm	-14.14 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98025 GHz	-54.25 dBm	-14.25 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.36019 GHz	-52.41 dBm	-12.41 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.94538 GHz	-49.27 dBm	-9.27 dB

Date: 2.DEC.2025 15:16:15

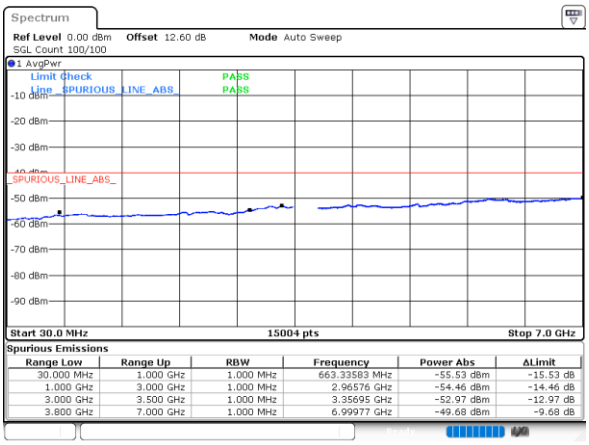


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.10174 GHz	-57.43 dBm	-17.43 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.83201 GHz	-53.10 dBm	-13.10 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80826 GHz	-54.25 dBm	-14.25 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.55253 GHz	-52.74 dBm	-12.74 dB

Date: 2.DEC.2025 17:29:40

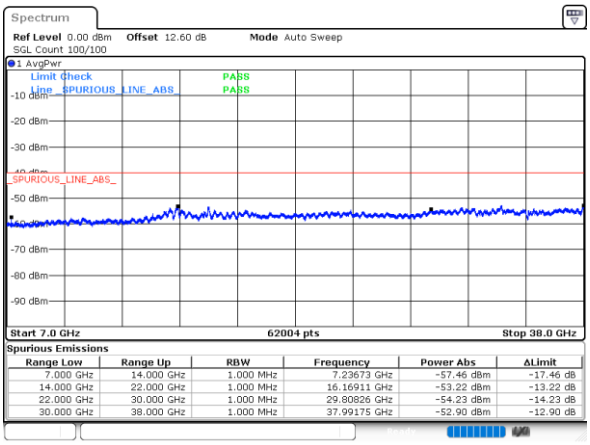
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.33583 MHz	-55.53 dBm	-15.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96576 GHz	-54.46 dBm	-14.46 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35695 GHz	-52.97 dBm	-12.97 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.99977 GHz	-49.68 dBm	-9.68 dB

Date: 2.DEC.2025 15:40:26

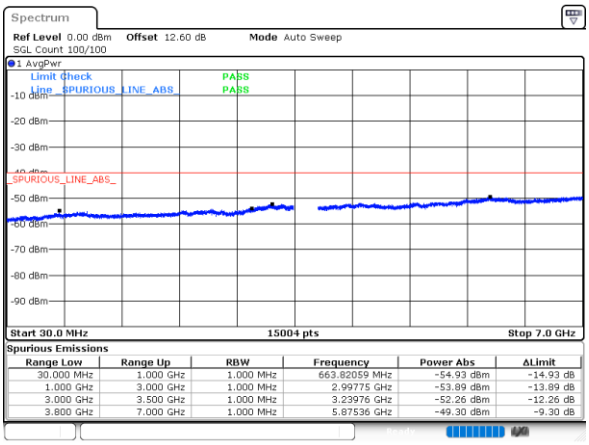


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.23673 GHz	-57.46 dBm	-17.46 dB
14.000 GHz	22.000 GHz	1.000 MHz	16.16911 GHz	-53.22 dBm	-13.22 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.80826 GHz	-54.23 dBm	-14.23 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.99175 GHz	-52.90 dBm	-12.90 dB

Date: 2.DEC.2025 17:31:21

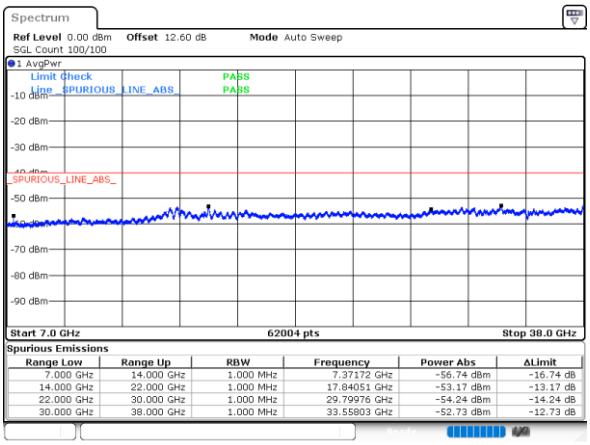
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	663.82059 MHz	-54.93 dBm	-14.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99775 GHz	-53.89 dBm	-13.89 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.23976 GHz	-52.26 dBm	-12.26 dB
3.800 GHz	7.000 GHz	1.000 MHz	5.87536 GHz	-49.30 dBm	-9.30 dB

Date: 2.DEC.2025 15:43:43



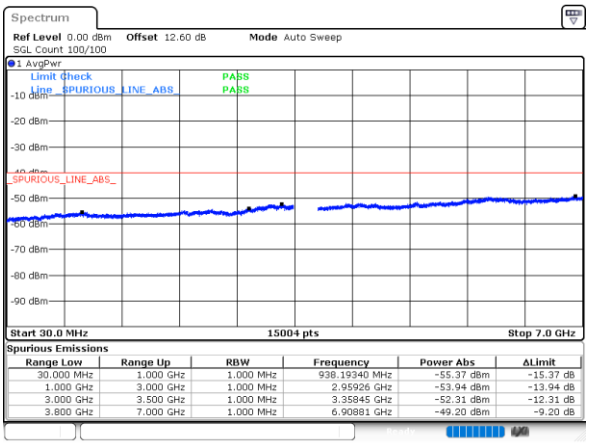
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.37172 GHz	-56.74 dBm	-16.74 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.84051 GHz	-53.17 dBm	-13.17 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79976 GHz	-54.24 dBm	-14.24 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.55803 GHz	-52.73 dBm	-12.73 dB

Date: 2.DEC.2025 17:32:57

LTE Band 48 / 20MHz

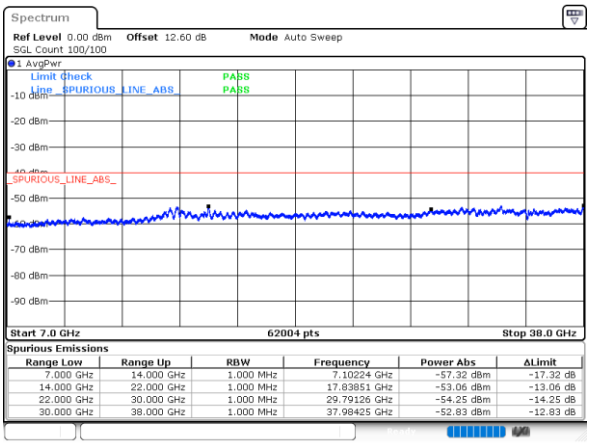
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.19340 MHz	-55.37 dBm	-15.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95926 GHz	-53.94 dBm	-13.94 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35845 GHz	-52.31 dBm	-12.31 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.90881 GHz	-49.20 dBm	-9.20 dB

Date: 2.DEC.2025 15:47:05

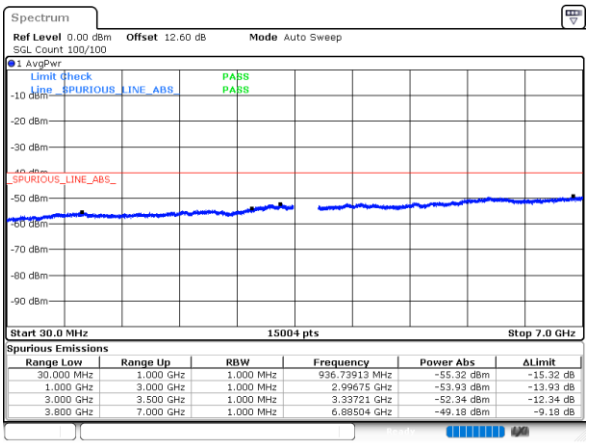


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.10224 GHz	-57.32 dBm	-17.32 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.83851 GHz	-53.06 dBm	-13.06 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.79126 GHz	-54.25 dBm	-14.25 dB
30.000 GHz	38.000 GHz	1.000 MHz	37.98425 GHz	-52.83 dBm	-12.83 dB

Date: 2.DEC.2025 17:38:37

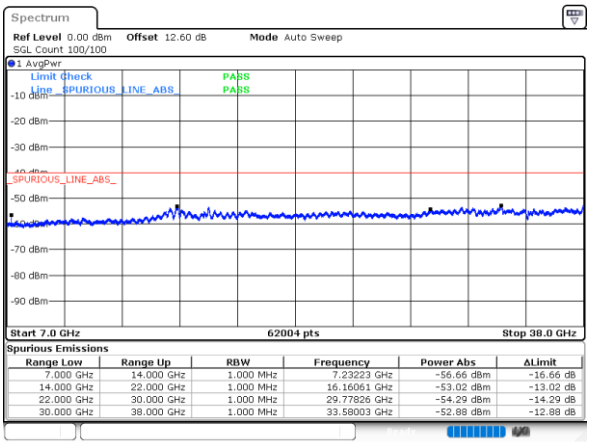
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	936.73913 MHz	-55.32 dBm	-15.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99675 GHz	-53.93 dBm	-13.93 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.33721 GHz	-52.34 dBm	-12.34 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.88504 GHz	-49.18 dBm	-9.18 dB

Date: 2.DEC.2025 15:49:30

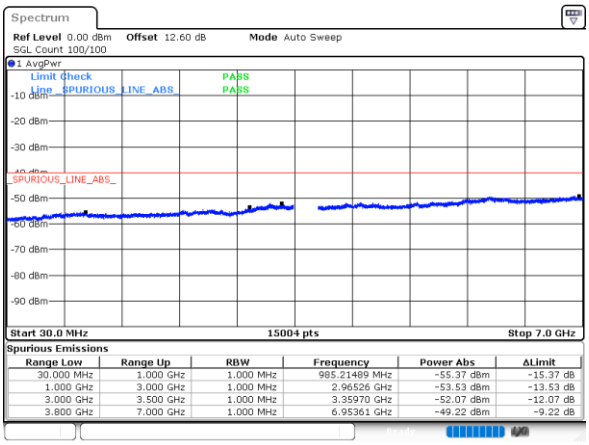


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.23223 GHz	-56.66 dBm	-16.66 dB
14.000 GHz	22.000 GHz	1.000 MHz	16.16061 GHz	-53.02 dBm	-13.02 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.77826 GHz	-54.29 dBm	-14.29 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.58003 GHz	-52.88 dBm	-12.88 dB

Date: 2.DEC.2025 17:41:36

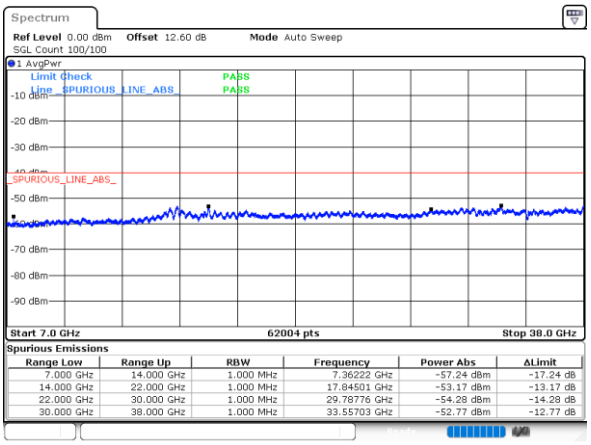
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.21489 MHz	-55.37 dBm	-15.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96526 GHz	-53.53 dBm	-13.53 dB
3.000 GHz	3.500 GHz	1.000 MHz	3.35970 GHz	-52.07 dBm	-12.07 dB
3.800 GHz	7.000 GHz	1.000 MHz	6.95361 GHz	-49.22 dBm	-9.22 dB

Date: 2.DEC.2025 15:51:14



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
7.000 GHz	14.000 GHz	1.000 MHz	7.36222 GHz	-57.24 dBm	-17.24 dB
14.000 GHz	22.000 GHz	1.000 MHz	17.84501 GHz	-53.17 dBm	-13.17 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.78776 GHz	-54.28 dBm	-14.28 dB
30.000 GHz	38.000 GHz	1.000 MHz	33.55703 GHz	-52.77 dBm	-12.77 dB

Date: 2.DEC.2025 17:43:58

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0015	

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.

Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Tim Lee, Wilson Wu, and Gerry Wei	**Relative Humidity(%):**	50 ~ 60
		Temperature(℃):	20 ~ 25

B1. Summary of each worse mode

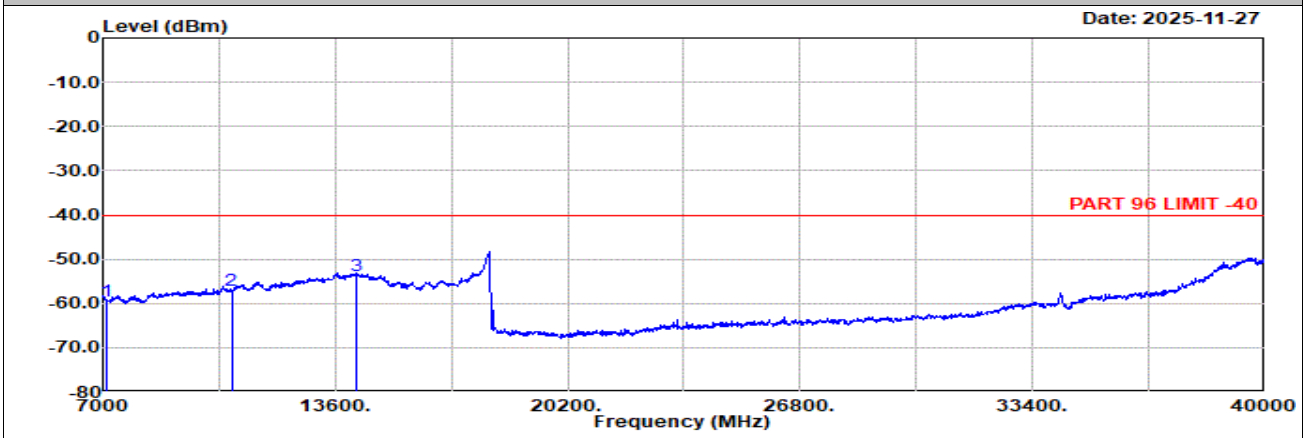
Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	Amp\Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 96	LTE B48	L	14204	-53.40	RMS	40.99	-47.99	0.05	-95.23	48.78	-40.00	-13.40	V	6
2	Part 96	LTE B48	M	10848	-48.41	RMS	39.00	-51.48	0.20	-95.23	59.10	-40.00	-8.41	V	7
3	Part 96	LTE B48	M	10848	-49.45	RMS	39.00	-51.48	0.20	-95.23	58.06	-40.00	-9.45	V	1
4	Part 96	LTE B48	M	10848	-49.58	RMS	39.00	-51.48	0.20	-95.23	57.93	-40.00	-9.58	V	5

Ant. 6

Part 96 Mode 1

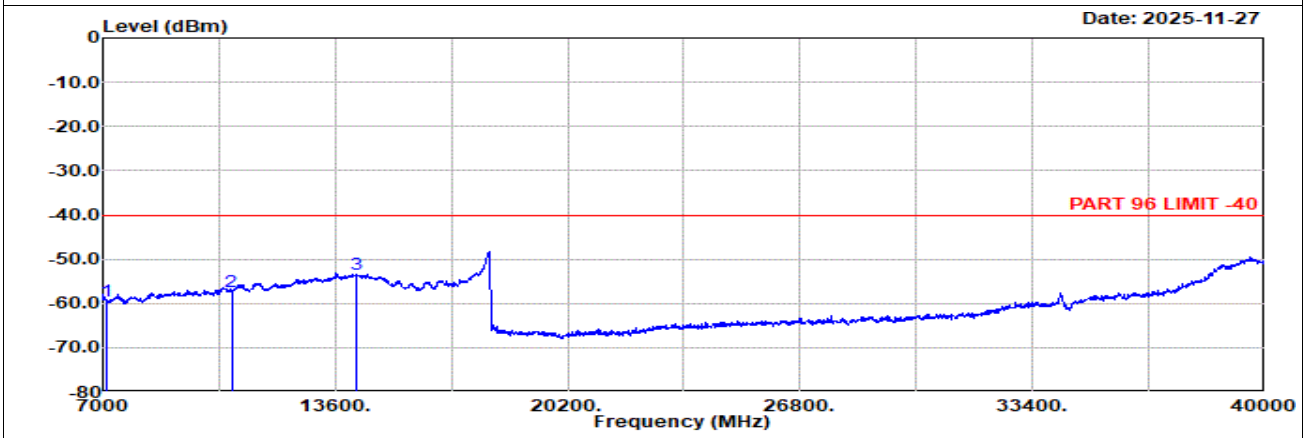
LTE B48 20M Ch55340 1RB0 QPSK

L



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-59.40	RMS	36.61	-53.35	0.82	-95.23	51.75	-40.00	-19.40	Horizontal
2	10653.00	-57.13	RMS	39.20	-51.73	0.19	-95.23	50.44	-40.00	-17.13	Horizontal
3	14204.00	-53.73	RMS	40.99	-47.99	0.05	-95.23	48.45	-40.00	-13.73	Horizontal



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55340 1RB0 QPSK

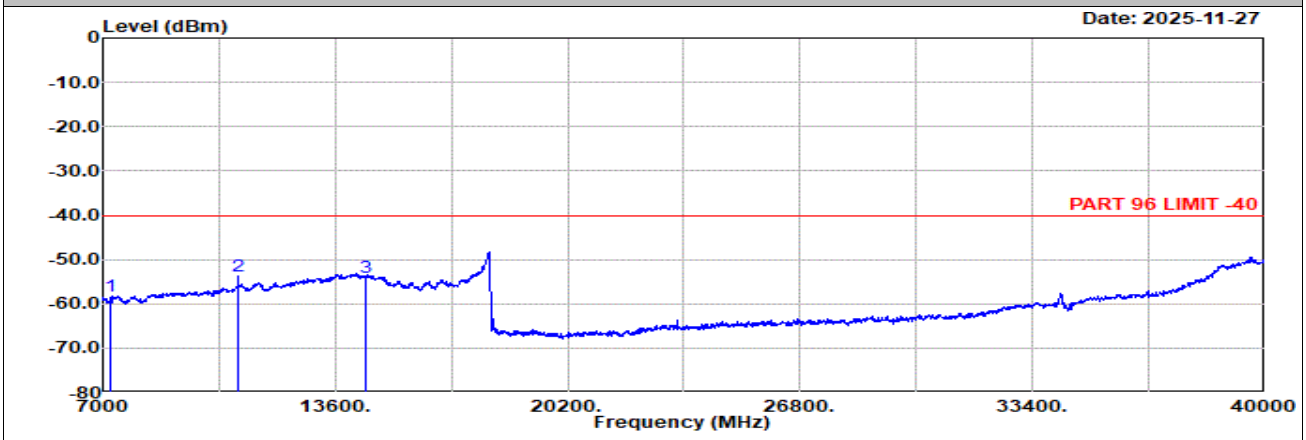
	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-59.37	RMS	36.61	-53.35	0.82	-95.23	51.78	-40.00	-19.37	Vertical
2	10653.00	-57.39	RMS	39.20	-51.73	0.19	-95.23	50.18	-40.00	-17.39	Vertical
3	14204.00	-53.40	RMS	40.99	-47.99	0.05	-95.23	48.78	-40.00	-13.40	Vertical

Ant. 6

Part 96 Mode 1

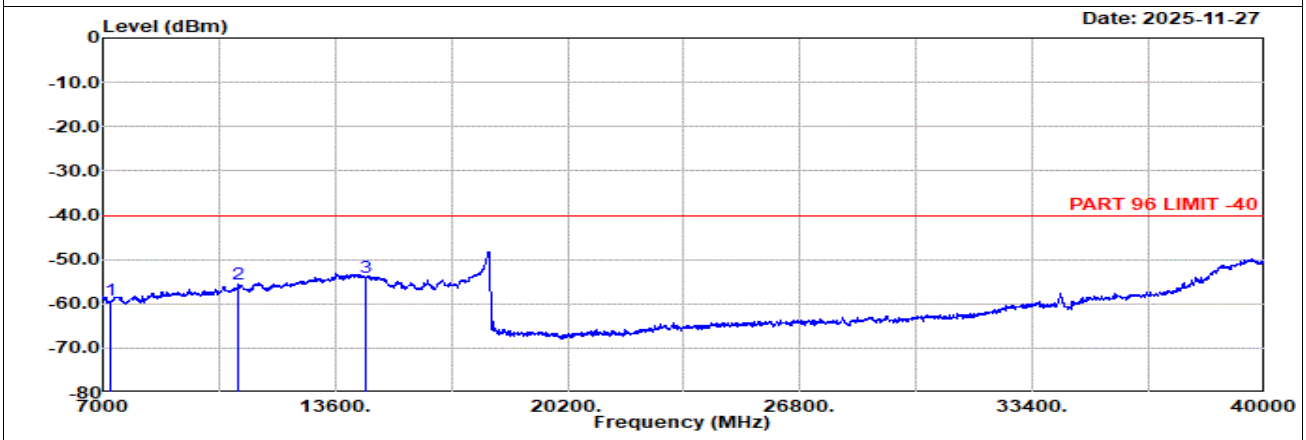
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-58.17	RMS	37.10	-53.28	0.65	-95.23	52.59	-40.00	-18.17	Horizontal
2	10848.00	-53.66	RMS	39.00	-51.48	0.20	-95.23	53.85	-40.00	-13.66	Horizontal
3	14464.00	-53.91	RMS	40.58	-47.49	0.05	-95.23	48.18	-40.00	-13.91	Horizontal

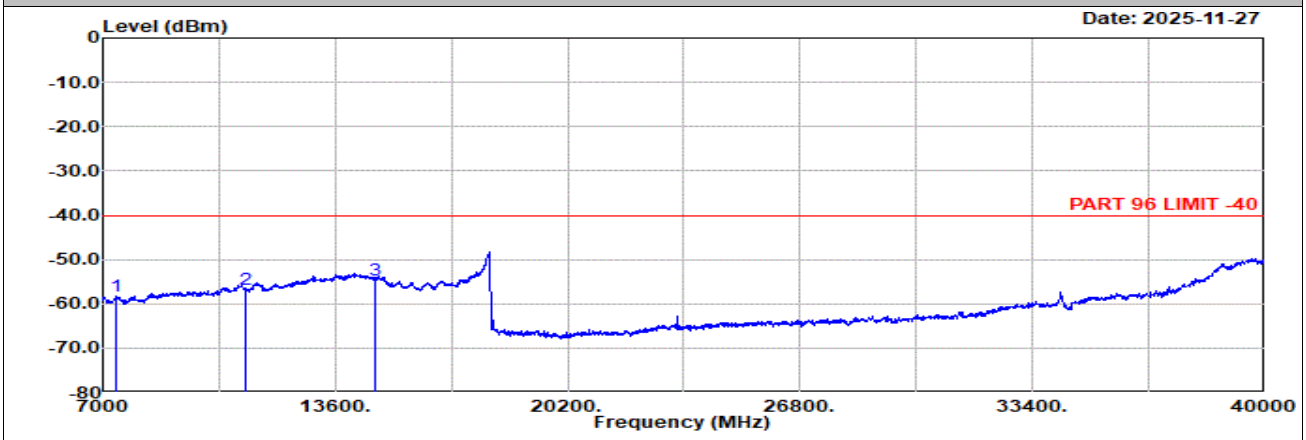


Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-59.20	RMS	37.10	-53.28	0.65	-95.23	51.56	-40.00	-19.20	Vertical
2	10848.00	-55.51	RMS	39.00	-51.48	0.20	-95.23	52.00	-40.00	-15.51	Vertical
3	14464.00	-53.96	RMS	40.58	-47.49	0.05	-95.23	48.13	-40.00	-13.96	Vertical

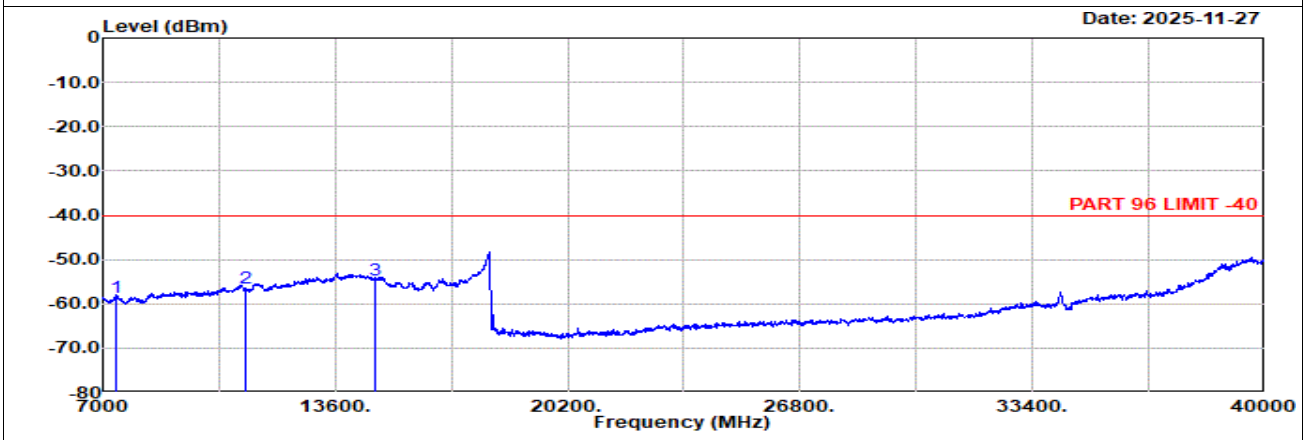
Ant. 6

Part 96 Mode 1
LTE B48 20M Ch56640 1RB0 QPSK
H



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-58.35	RMS	37.05	-53.19	0.42	-95.23	52.60	-40.00	-18.35	Horizontal
2	11043.00	-56.67	RMS	38.99	-51.20	0.22	-95.23	50.55	-40.00	-16.67	Horizontal
3	14724.00	-54.54	RMS	40.45	-47.83	0.06	-95.23	48.01	-40.00	-14.54	Horizontal

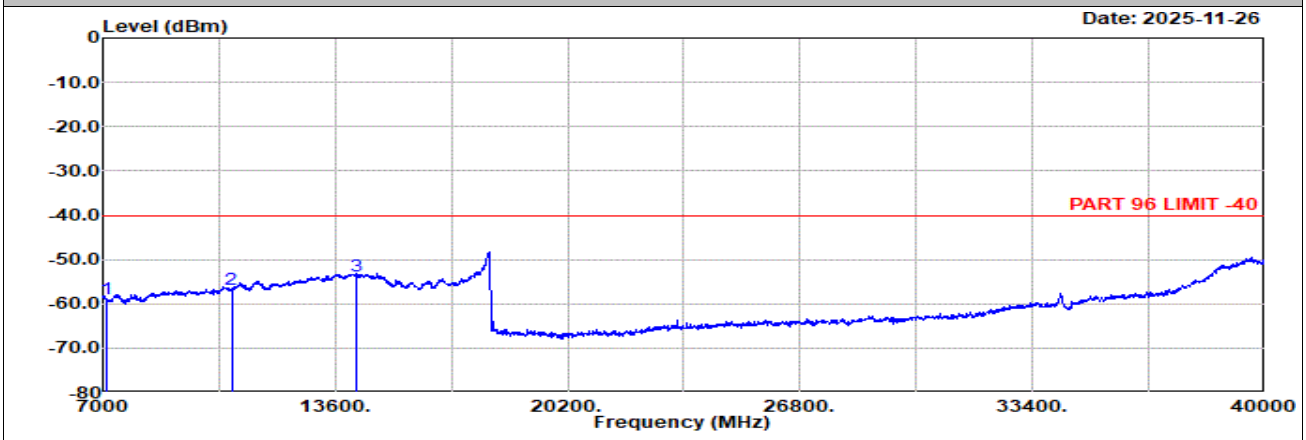


Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-58.53	RMS	37.05	-53.19	0.42	-95.23	52.42	-40.00	-18.53	Vertical
2	11043.00	-56.54	RMS	38.99	-51.20	0.22	-95.23	50.68	-40.00	-16.54	Vertical
3	14724.00	-54.64	RMS	40.45	-47.83	0.06	-95.23	47.91	-40.00	-14.64	Vertical

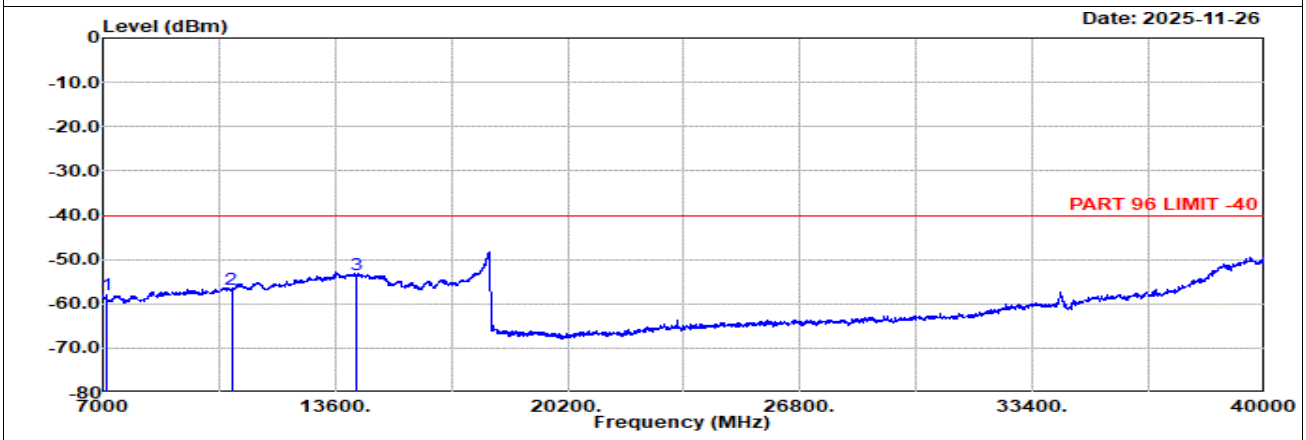
Ant. 7

Part 96 Mode 2
LTE B48 20M Ch55340 1RB0 QPSK
L



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-58.90	RMS	36.61	-53.35	0.82	-95.23	52.25	-40.00	-18.90	Horizontal
2	10653.00	-56.62	RMS	39.20	-51.73	0.19	-95.23	50.95	-40.00	-16.62	Horizontal
3	14204.00	-53.63	RMS	40.99	-47.99	0.05	-95.23	48.55	-40.00	-13.63	Horizontal



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55340 1RB0 QPSK

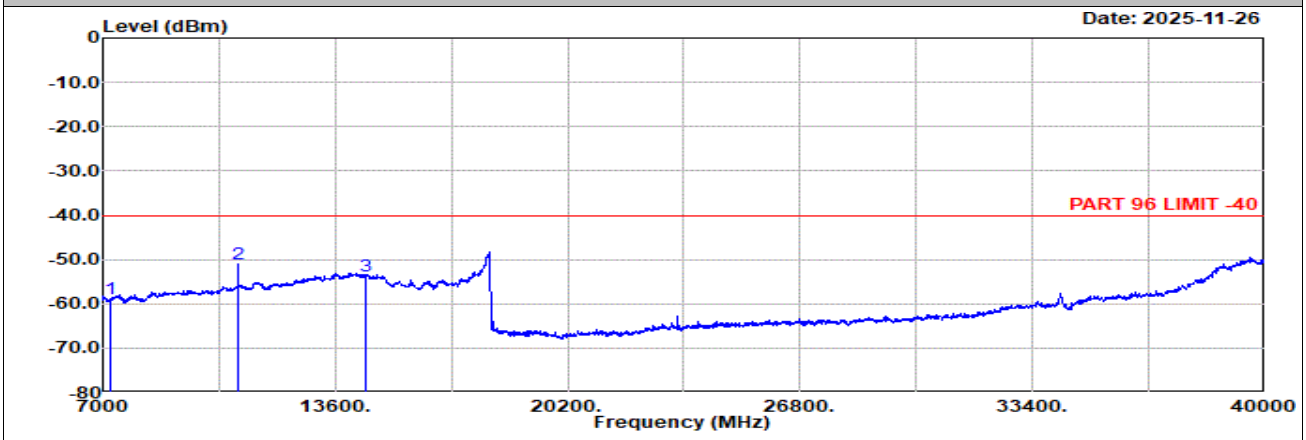
	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-58.10	RMS	36.61	-53.35	0.82	-95.23	53.05	-40.00	-18.10	Vertical
2	10653.00	-56.86	RMS	39.20	-51.73	0.19	-95.23	50.71	-40.00	-16.86	Vertical
3	14204.00	-53.36	RMS	40.99	-47.99	0.05	-95.23	48.82	-40.00	-13.36	Vertical

Ant. 7

Part 96 Mode 2

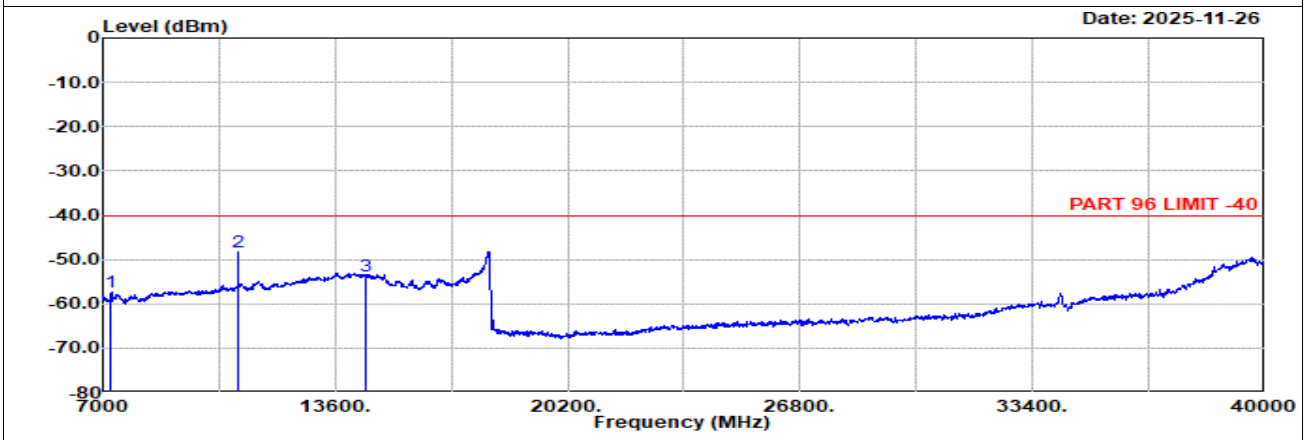
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-58.88	RMS	37.10	-53.28	0.65	-95.23	51.88	-40.00	-18.88	Horizontal
2	10848.00	-51.02	RMS	39.00	-51.48	0.20	-95.23	56.49	-40.00	-11.02	Horizontal
3	14464.00	-53.79	RMS	40.58	-47.49	0.05	-95.23	48.30	-40.00	-13.79	Horizontal



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

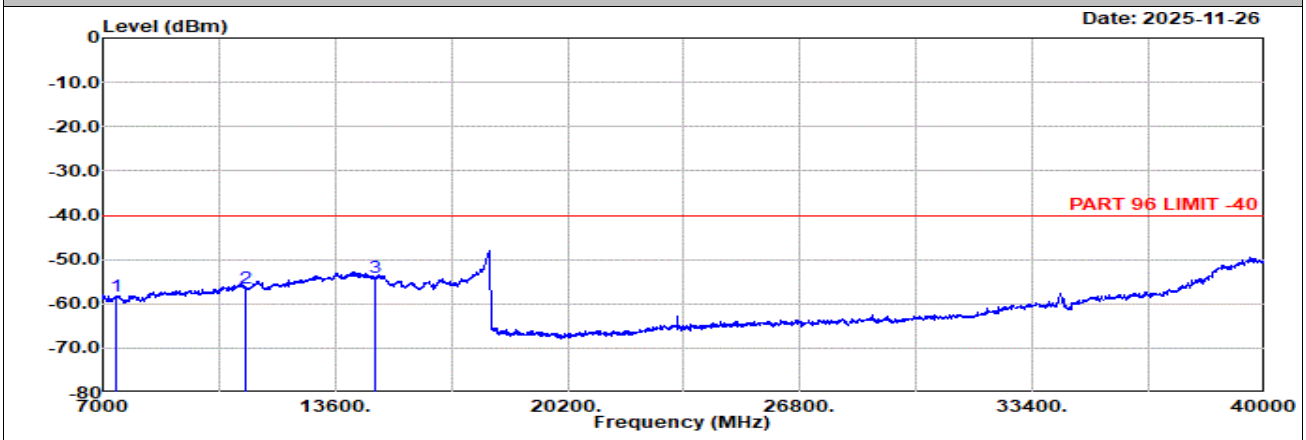
	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-57.47	RMS	37.10	-53.28	0.65	-95.23	53.29	-40.00	-17.47	Vertical
2	10848.00	-48.41	RMS	39.00	-51.48	0.20	-95.23	59.10	-40.00	-8.41	Vertical
3	14464.00	-53.61	RMS	40.58	-47.49	0.05	-95.23	48.48	-40.00	-13.61	Vertical

Ant. 7

Part 96 Mode 2

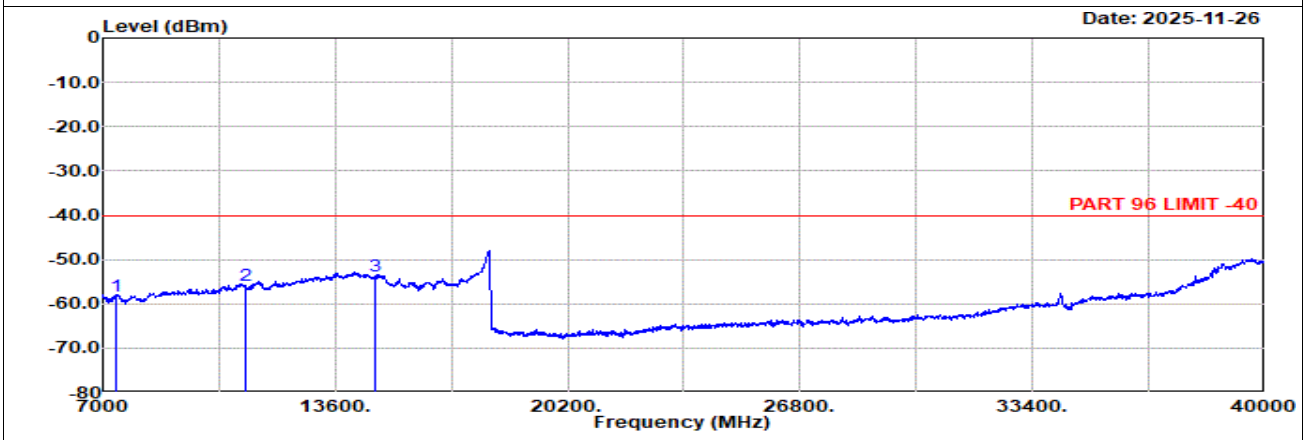
LTE B48 20M Ch56640 1RB0 QPSK

H



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-58.12	RMS	37.05	-53.19	0.42	-95.23	52.83	-40.00	-18.12	Horizontal
2	11043.00	-56.34	RMS	38.99	-51.20	0.22	-95.23	50.88	-40.00	-16.34	Horizontal
3	14724.00	-53.91	RMS	40.45	-47.83	0.06	-95.23	48.64	-40.00	-13.91	Horizontal



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch56640 1RB0 QPSK

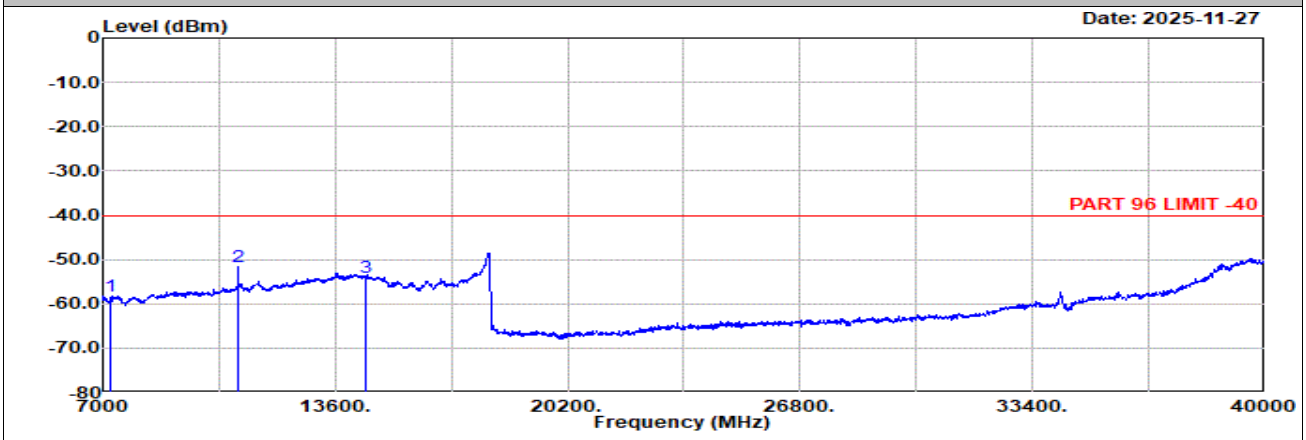
	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-58.23	RMS	37.05	-53.19	0.42	-95.23	52.72	-40.00	-18.23	Vertical
2	11043.00	-55.71	RMS	38.99	-51.20	0.22	-95.23	51.51	-40.00	-15.71	Vertical
3	14724.00	-53.70	RMS	40.45	-47.83	0.06	-95.23	48.85	-40.00	-13.70	Vertical

Ant. 1

Part 96 Mode 3

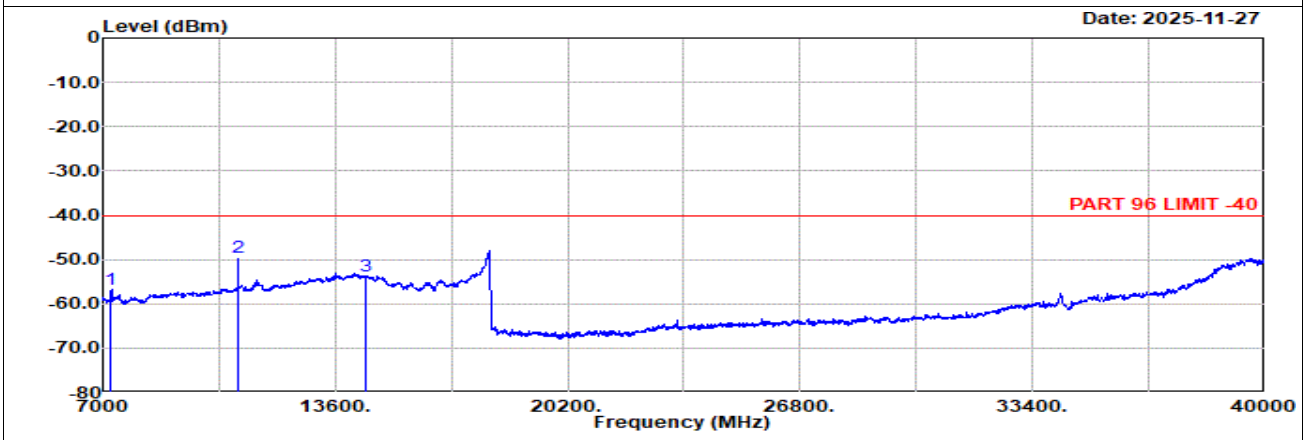
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-58.41	RMS	37.10	-53.28	0.65	-95.23	52.35	-40.00	-18.41	Horizontal
2	10848.00	-51.67	RMS	39.00	-51.48	0.20	-95.23	55.84	-40.00	-11.67	Horizontal
3	14464.00	-54.07	RMS	40.58	-47.49	0.05	-95.23	48.02	-40.00	-14.07	Horizontal



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

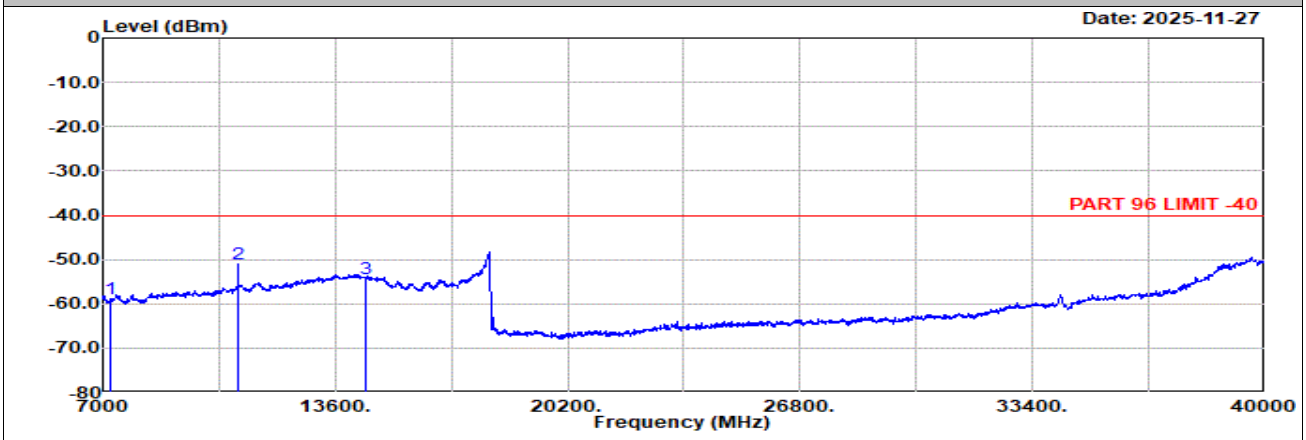
	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-56.81	RMS	37.10	-53.28	0.65	-95.23	53.95	-40.00	-16.81	Vertical
2	10848.00	-49.45	RMS	39.00	-51.48	0.20	-95.23	58.06	-40.00	-9.45	Vertical
3	14464.00	-53.63	RMS	40.58	-47.49	0.05	-95.23	48.46	-40.00	-13.63	Vertical

Ant. 5

Part 96 Mode 4

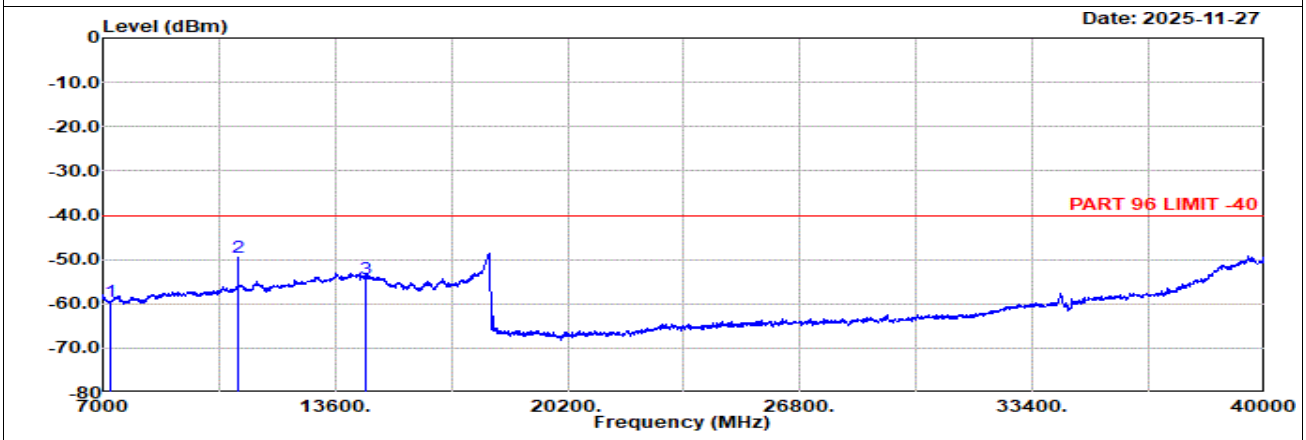
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-59.00	RMS	37.10	-53.28	0.65	-95.23	51.76	-40.00	-19.00	Horizontal
2	10848.00	-51.09	RMS	39.00	-51.48	0.20	-95.23	56.42	-40.00	-11.09	Horizontal
3	14464.00	-54.24	RMS	40.58	-47.49	0.05	-95.23	47.85	-40.00	-14.24	Horizontal

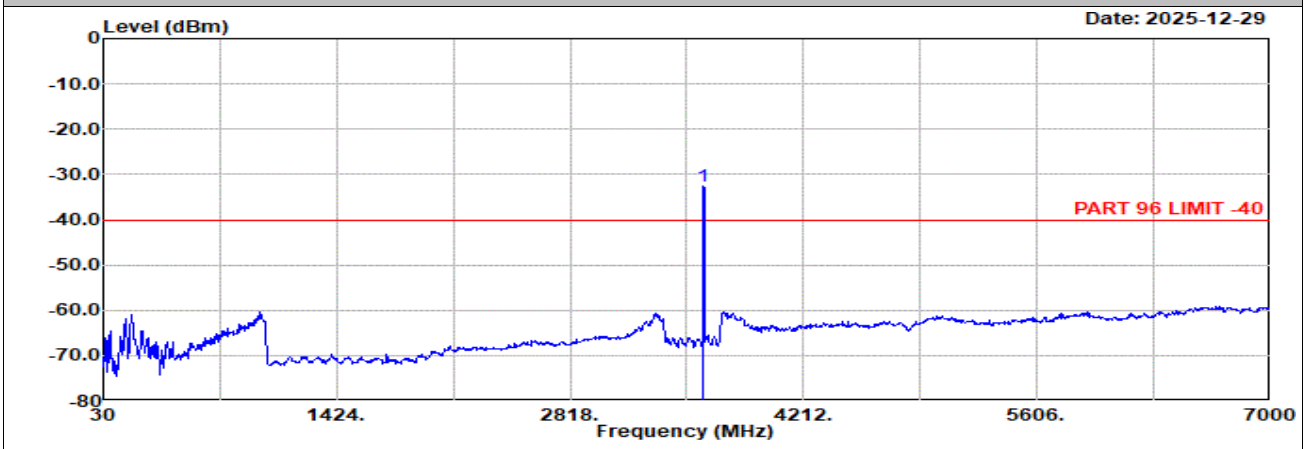


Site : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cbl	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-59.42	RMS	37.10	-53.28	0.65	-95.23	51.34	-40.00	-19.42	Vertical
2	10848.00	-49.58	RMS	39.00	-51.48	0.20	-95.23	57.93	-40.00	-9.58	Vertical
3	14464.00	-54.21	RMS	40.58	-47.49	0.05	-95.23	47.88	-40.00	-14.21	Vertical

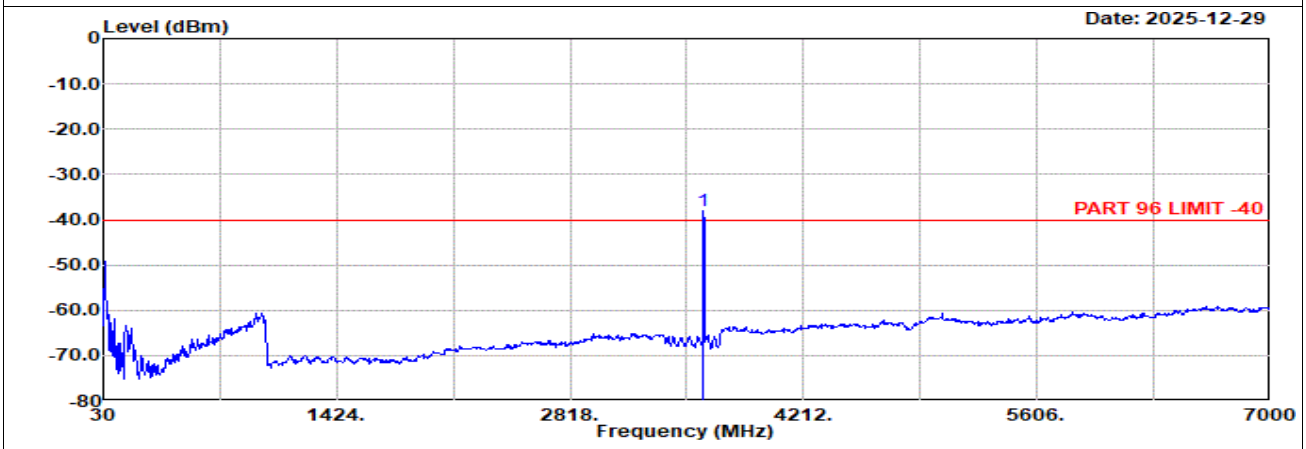
Ant. 7

Part 96 Mode 2
LTE B48 20M Ch55990 1RB0 QPSK
M




```
Site      : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Horizontal
         : LTE Band 48 20M Ch55990 1RB0 QPSK
         : #1 is fundamental signal which can be ignored.
```

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3616.00	-32.57	RMS	29.63	-46.43	0.57	-95.23	78.89	-40.00	7.43	Horizontal




```
Site      : 03CH12-HY
Condition: PART 96 LIMIT -40 3m 9120D-02114-250702 Vertical
         : LTE Band 48 20M Ch55990 1RB0 QPSK
         : #1 is fundamental signal which can be ignored.
```

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3616.00	-38.13	RMS	29.63	-46.43	0.57	-95.23	73.33	-40.00	1.87	Vertical