FCC RADIO TEST REPORT

FCC ID	:	A4RGUL82
Equipment	:	Phone
Model Name	:	GUL82
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC 47 CFR Part 2, 96

The product was received on Nov. 29. 2024 and testing was performed from Jan. 15, 2025 to Feb. 21, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FG4N0918D	01	Initial issue of report	Mar. 26, 2025

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	9.48 dB under the limit at 14464.000 MHz

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: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx. **Antenna Type** WWAN: **<Ant. 6>:** IFA Antenna **<Ant. 7>:** IFA Antenna

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

Antenna information				
Band	**Ant6**	**Ant7**	**Main Ant. #**	**Sub Ant. #**
B48	-2.4	0.8	6	7

Remark:
1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant 6 is selected as the worst mode to be reported for conducted test in the test report.

EUT Information List	
S/N	Performed Test Item
4B151FDCQ0006Z	Conducted Measurement EIRP
51061FDCQ000B2	Radiated Spurious Emission

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH03-HY
Test Engineer	Chris Chiu
Temperature (℃)	22.3~22.9
Relative Humidity (%)	53.2~55.5

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.**
	03CH21-HY (TAF Code: 3786)
Test Engineer	Fred Tseng, Ray Lung, and Sky Chang
Temperature (℃)	18.0~26.0
Relative Humidity (%)	50.0~70.0
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

1.4 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 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 the worst plane as following table.

Plane	Main Antenna	Sub Antenna
B48	Z with Adapter	X with Adapter

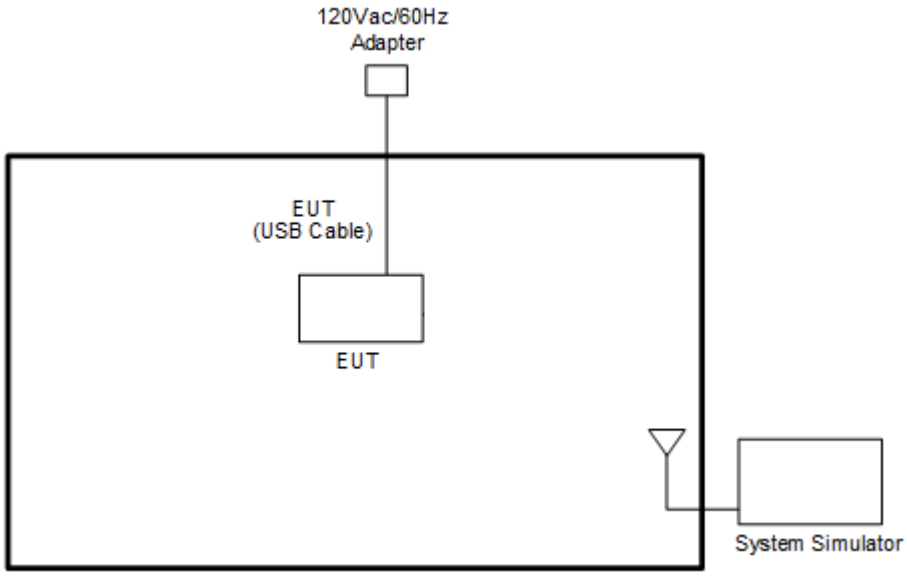
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	20 MHz or less	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 USB Cable 2.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	AC Adapter	N/A	GW8L7	N/A	N/A	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 4.5 dB and 10dB attenuator.

Example :

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

= 4.5 + 10 = 14.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 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

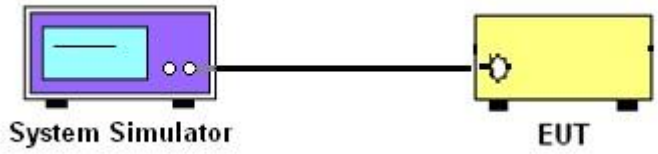
3 Conducted Test Items

3.1 Measuring Instruments

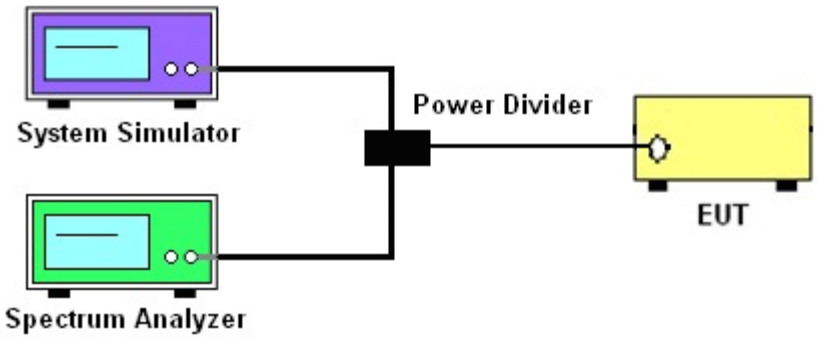
See list of measuring instruments of this test report.

3.1.1 Test Setup

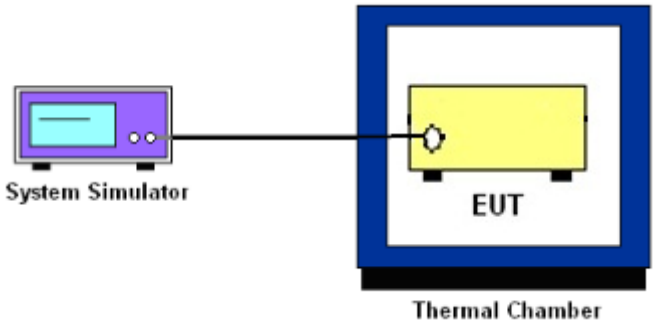
3.1.2 Conducted Output Power



3.1.3 EIRP, 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 Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. 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 base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 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.

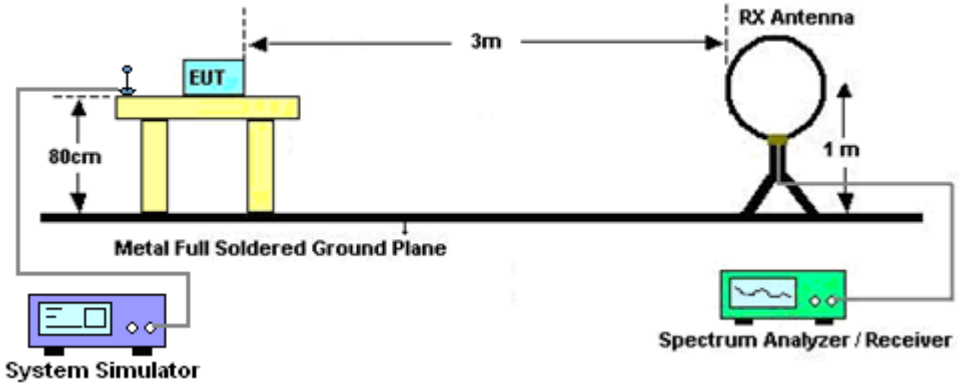
4 Radiated Test Items

4.1 Measuring Instruments

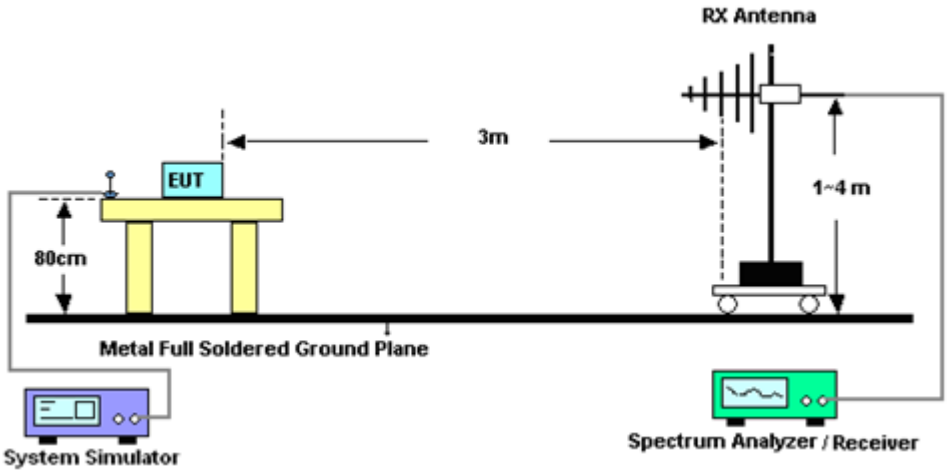
See list of measuring instruments of this test report.

4.2 Test Setup

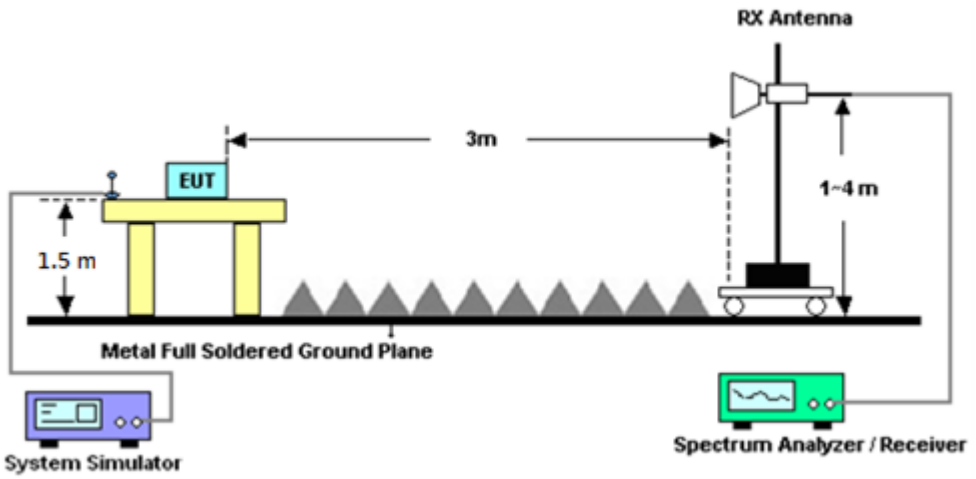
For radiated test below 30MHz



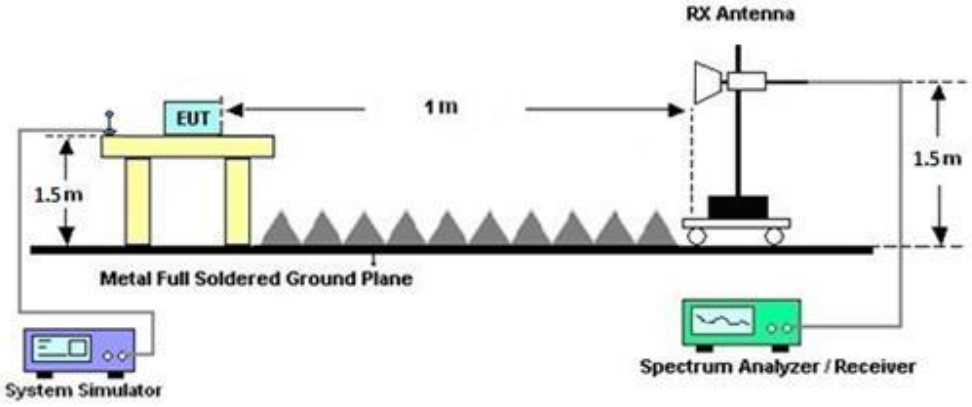
For radiated test from 30MHz to 1GHz



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

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 for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. 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
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. 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
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Sep. 30, 2025	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 06, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Sep. 05, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V ; 0A~6A	Nov. 27, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Nov. 26, 2025	Conducted (TH03-HY)
Coupler+10dB+ RFcable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+ SFL405_1.5M	#A+#1+#1 +#7	1-18GHz	Jan. 03, 2025	Jan. 15, 2025 ~ Feb. 06, 2025	Jan. 02, 2026	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Jun. 12, 2025	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 11, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Jul. 10, 2025	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Jan. 15, 2025 ~ Feb. 06, 2025	N/A	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP210073	-10 ~ 50°C / 20 ~ 95%RH	Jun. 05, 2024	Jan. 15, 2025 ~ Feb. 06, 2025	Jun. 04, 2025	Conducted (TH03-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 11, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 12, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	Jan. 29, 2025 ~ Feb. 21, 2025	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 29, 2025 ~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 29, 2025 ~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 29, 2025 ~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jan. 29, 2025 ~ Feb. 21, 2025	N/A	Radiation (03CH21-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))	**6.6 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0 dB**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

<TX 0>

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.05	24.22	24.11	21.82	0.1521
20	1	49		23.92	24.05	23.92		
20	1	99		23.90	24.00	23.85		
20	50	0		22.12	22.24	22.11		
20	50	24		22.07	22.19	22.04		
20	50	50		22.04	22.15	21.97		
20	100	0		22.06	22.19	22.03		
20	1	0	16-QAM	23.16	23.28	23.19	20.88	0.1225
20	1	49		23.07	23.16	23.02		
20	1	99		22.99	23.07	22.93		
20	50	0		21.14	21.25	21.12		
20	50	24		21.11	21.18	21.06		
20	50	50		21.05	21.15	21.00		
20	100	0		21.07	21.19	21.03		
20	1	0	64-QAM	21.90	22.01	21.92	19.61	0.0914
20	1	49		21.85	21.91	21.75		
20	1	99		21.74	21.81	21.66		
20	50	0		20.11	20.24	20.09		
20	50	24		20.07	20.18	20.03		
20	50	50		20.04	20.14	19.97		
20	100	0		20.05	20.16	20.02		
20	1	0	256-QAM	19.08	19.12	19.08	17.03	0.0505
20	1	49		19.01	19.10	19.08		
20	1	99		19.18	19.22	19.18		
20	50	0		19.35	19.39	19.35		
20	50	24		19.37	19.41	19.37		
20	50	50		19.39	19.43	19.39		
20	100	0		19.32	19.36	19.32		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	24.29	24.31	24.12	21.91	0.1552
15	1	37		24.19	24.21	24.08		
15	1	74		24.09	24.17	23.92		
15	36	0		22.21	22.27	22.10		
15	36	20		22.22	22.18	22.05		
15	36	39		22.19	22.13	22.01		
15	75	0		22.21	22.21	22.07		
15	1	0	16-QAM	23.25	23.25	23.15	20.85	0.1216
15	1	37		23.00	22.94	22.87		
15	1	74		23.15	23.12	22.98		
15	36	0		21.19	21.18	21.06		
15	36	20		21.16	21.13	21.01		
15	36	39		21.14	21.11	21.00		
15	75	0		21.21	21.23	21.07		
15	1	0	64-QAM	22.00	22.02	21.88	19.69	0.0931
15	1	37		22.09	22.06	21.96		
15	1	74		21.91	21.88	21.72		
15	36	0		20.23	20.22	20.08		
15	36	20		20.31	20.16	20.01		
15	36	39		20.32	20.15	20.01		
15	75	0		20.38	20.22	20.05		
15	1	0	256-QAM	19.05	19.05	19.06	17.02	0.0504
15	1	37		18.91	19.05	19.00		
15	1	74		19.08	19.13	19.10		
15	36	0		19.30	19.34	19.28		
15	36	20		19.36	19.31	19.27		
15	36	39		19.37	19.42	19.36		
15	75	0		19.29	19.36	19.23		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.10	24.22	24.13	21.82	0.1521
10	1	25		24.04	24.14	23.99		
10	1	49		24.01	24.09	23.91		
10	25	0		22.17	22.26	22.08		
10	25	12		22.17	22.25	22.03		
10	25	25		22.17	22.24	22.03		
10	50	0		22.20	22.26	22.07		
10	1	0	16-QAM	23.21	23.25	23.11	21.01	0.1262
10	1	25		23.38	23.41	23.25		
10	1	49		23.12	23.13	22.95		
10	25	0		21.21	21.28	21.09		
10	25	12		21.18	21.24	21.04		
10	25	25		21.17	21.22	21.04		
10	50	0		21.19	21.24	21.06		
10	1	0	64-QAM	21.94	21.98	21.81	19.69	0.0931
10	1	25		22.07	22.09	21.92		
10	1	49		21.85	21.87	21.68		
10	25	0		20.25	20.28	20.11		
10	25	12		20.21	20.25	20.06		
10	25	25		20.20	20.24	20.04		
10	50	0		20.19	20.23	20.06		
10	1	0	256-QAM	19.03	19.06	19.06	17.00	0.0501
10	1	25		18.91	19.03	19.07		
10	1	49		19.17	19.15	19.15		
10	25	0		19.34	19.30	19.26		
10	25	12		19.27	19.35	19.33		
10	25	25		19.39	19.40	19.35		
10	50	0		19.30	19.34	19.29		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	24.17	24.25	24.10	21.85	0.1531
5	1	12		23.91	24.03	23.90		
5	1	24		24.01	24.04	23.88		
5	12	0		22.08	22.20	22.03		
5	12	7		22.10	22.21	22.02		
5	12	13		22.08	22.17	22.03		
5	25	0		22.12	22.22	22.03		
5	1	0	16-QAM	23.03	23.11	22.96	20.71	0.1178
5	1	12		22.88	22.95	22.80		
5	1	24		23.06	23.11	22.93		
5	12	0		21.10	21.17	21.00		
5	12	7		21.06	21.12	21.04		
5	12	13		21.07	21.15	21.03		
5	25	0		21.12	21.20	21.01		
5	1	0	64-QAM	21.88	21.95	21.79	19.66	0.0925
5	1	12		22.00	22.06	21.90		
5	1	24		21.86	21.90	21.74		
5	12	0		20.13	20.21	20.04		
5	12	7		20.20	20.17	20.10		
5	12	13		20.14	20.19	20.05		
5	25	0		20.16	20.22	20.04		
5	1	0	256-QAM	19.07	19.05	19.03	17.01	0.0502
5	1	12		19.01	19.08	18.99		
5	1	24		19.12	19.12	19.08		
5	12	0		19.33	19.33	19.35		
5	12	7		19.33	19.39	19.27		
5	12	13		19.33	19.41	19.38		
5	25	0		19.30	19.28	19.28		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

<Tx 1>

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.24	20.34	20.21	21.17	0.1309
20	1	49		20.05	20.21	19.99		
20	1	99		20.10	20.04	19.77		
20	50	0		20.37	20.36	20.20		
20	50	24		20.09	20.12	19.88		
20	50	50		20.05	20.05	19.81		
20	100	0		20.07	20.12	19.87		
20	1	0	16-QAM	20.14	20.20	20.00	21.00	0.1259
20	1	49		20.03	20.05	19.83		
20	1	99		20.02	19.97	19.71		
20	50	0		20.12	20.17	19.93		
20	50	24		20.14	20.12	19.89		
20	50	50		20.19	20.06	19.79		
20	100	0		20.20	20.08	19.85		
20	1	0	64-QAM	19.98	19.94	19.75	20.78	0.1197
20	1	49		19.81	19.97	19.60		
20	1	99		19.77	19.85	19.46		
20	50	0		19.32	19.47	19.13		
20	50	24		19.28	19.41	19.06		
20	50	50		19.26	19.34	18.99		
20	100	0		19.28	19.37	19.05		
20	1	0	256-QAM	17.71	17.78	17.81	18.94	0.0783
20	1	49		17.72	17.79	17.82		
20	1	99		17.80	17.87	17.90		
20	50	0		17.98	18.05	18.08		
20	50	24		18.01	18.08	18.11		
20	50	50		18.04	18.11	18.14		
20	100	0		18.02	18.09	18.12		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.13	20.20	20.01	21.06	0.1276
15	1	37		19.89	20.02	19.83		
15	1	74		20.00	19.91	19.65		
15	36	0		20.26	20.22	20.09		
15	36	20		19.96	19.98	19.78		
15	36	39		19.93	19.94	19.66		
15	75	0		19.91	19.96	19.73		
15	1	0	16-QAM	19.96	20.00	19.89	20.86	0.1219
15	1	37		19.84	19.85	19.67		
15	1	74		19.83	19.87	19.54		
15	36	0		19.95	19.98	19.78		
15	36	20		20.01	19.93	19.78		
15	36	39		20.06	19.95	19.59		
15	75	0		20.00	19.97	19.67		
15	1	0	64-QAM	19.80	19.78	19.59	20.63	0.1156
15	1	37		19.67	19.83	19.49		
15	1	74		19.63	19.75	19.26		
15	36	0		19.20	19.32	19.03		
15	36	20		19.12	19.30	18.86		
15	36	39		19.06	19.22	18.81		
15	75	0		19.16	19.21	18.92		
15	1	0	256-QAM	17.63	17.73	17.72	18.92	0.0780
15	1	37		17.69	17.75	17.75		
15	1	74		17.76	17.77	17.81		
15	36	0		17.92	17.98	17.98		
15	36	20		17.93	18.05	18.02		
15	36	39		17.97	18.09	18.12		
15	75	0		17.93	18.01	18.12		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.11	20.19	20.04	20.99	0.1256
10	1	25		19.85	20.08	19.79		
10	1	49		19.97	19.90	19.58		
10	25	0		20.18	20.18	20.09		
10	25	12		19.90	19.92	19.76		
10	25	25		19.90	19.87	19.70		
10	50	0		19.90	19.92	19.72		
10	1	0	16-QAM	19.95	20.05	19.87	20.86	0.1219
10	1	25		19.88	19.85	19.69		
10	1	49		19.82	19.85	19.61		
10	25	0		19.97	20.06	19.79		
10	25	12		20.01	19.99	19.70		
10	25	25		20.02	19.94	19.61		
10	50	0		20.03	19.91	19.65		
10	1	0	64-QAM	19.83	19.75	19.64	20.64	0.1159
10	1	25		19.68	19.84	19.47		
10	1	49		19.65	19.75	19.35		
10	25	0		19.21	19.33	18.99		
10	25	12		19.11	19.25	18.95		
10	25	25		19.14	19.19	18.89		
10	50	0		19.17	19.23	18.88		
10	1	0	256-QAM	17.61	17.71	17.74	18.89	0.0774
10	1	25		17.63	17.79	17.77		
10	1	49		17.80	17.82	17.86		
10	25	0		17.97	17.98	18.00		
10	25	12		17.95	17.98	18.05		
10	25	25		17.99	18.06	18.09		
10	50	0		17.92	17.99	18.09		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

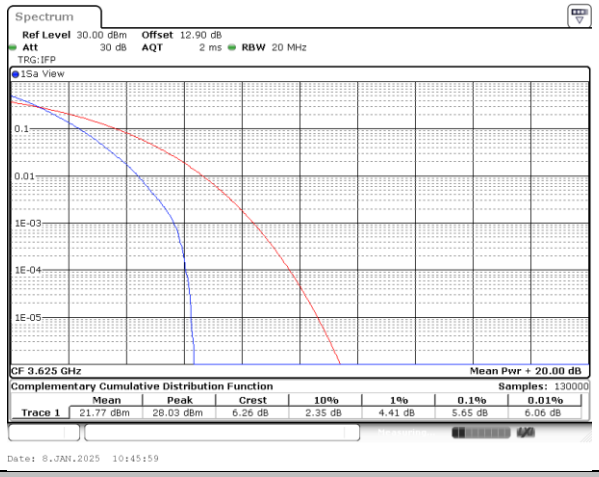
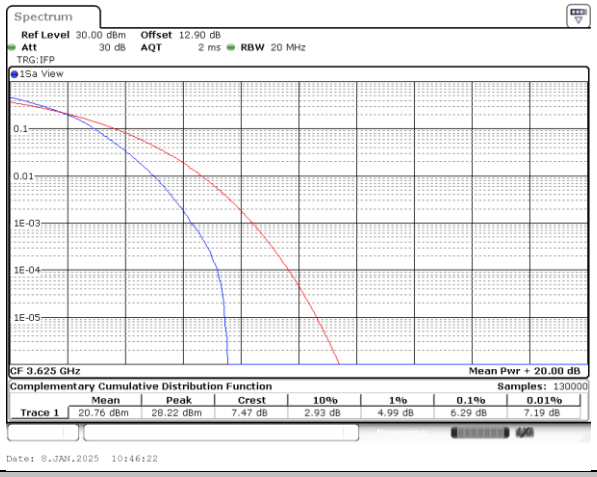
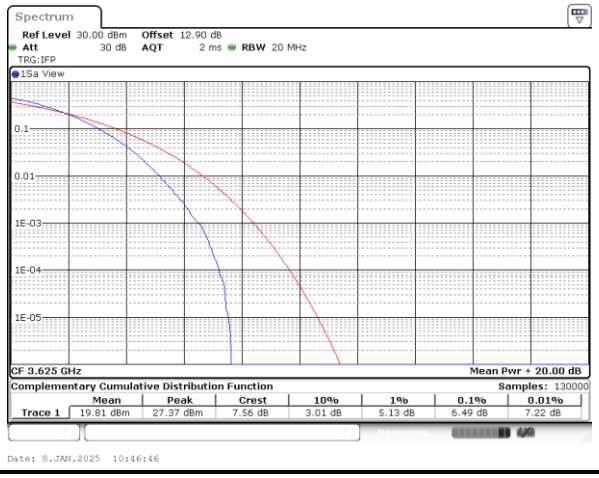
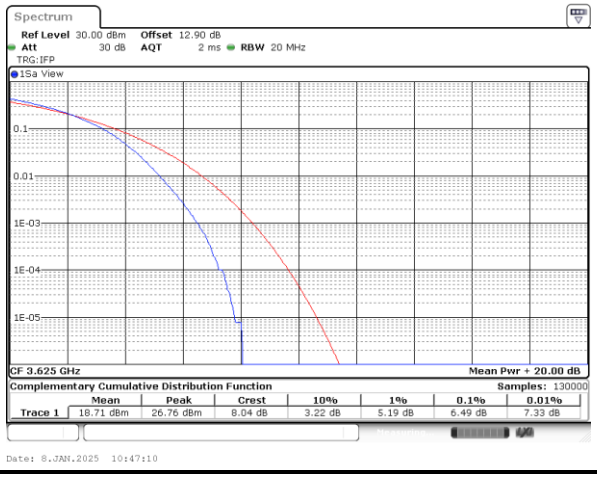
Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	20.13	20.22	20.06	21.04	0.1271
5	1	12		19.90	20.04	19.83		
5	1	24		19.90	19.93	19.61		
5	12	0		20.24	20.21	20.08		
5	12	7		19.94	20.02	19.76		
5	12	13		19.94	19.92	19.63		
5	25	0		19.88	20.02	19.69		
5	1	0	16-QAM	20.01	20.02	19.84	20.83	0.1211
5	1	12		19.83	19.86	19.73		
5	1	24		19.85	19.83	19.57		
5	12	0		19.96	20.03	19.73		
5	12	7		19.97	19.98	19.71		
5	12	13		20.00	19.86	19.68		
5	25	0		20.02	19.88	19.69		
5	1	0	64-QAM	19.84	19.80	19.63	20.64	0.1159
5	1	12		19.65	19.77	19.48		
5	1	24		19.62	19.73	19.29		
5	12	0		19.18	19.33	18.93		
5	12	7		19.15	19.26	18.92		
5	12	13		19.13	19.22	18.86		
5	25	0		19.16	19.18	18.88		
5	1	0	256-QAM	17.68	17.68	17.79	18.94	0.0783
5	1	12		17.64	17.75	17.72		
5	1	24		17.76	17.83	17.87		
5	12	0		17.98	18.05	18.01		
5	12	7		17.98	18.05	18.09		
5	12	13		18.01	18.02	18.14		
5	25	0		17.94	18.02	18.09		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

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	5.65	6.29	6.49	6.49	PASS

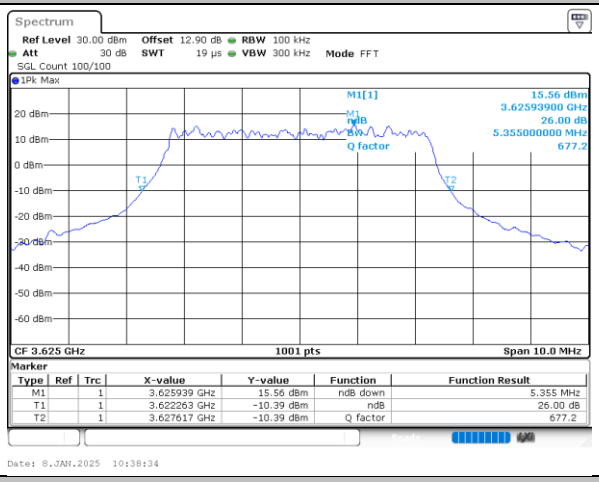
LTE Band 48 / 20MHz / QPSK	LTE Band 48 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 48 / 20MHz / 64QAM	LTE Band 48 / 20MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

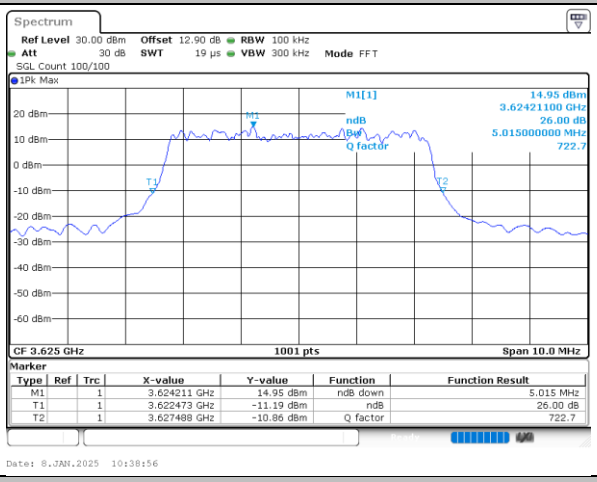
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.35	5.01	9.71	9.83	14.62	14.26	18.62	19.42
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.85	4.84	10.16	10.08	14.35	14.56	18.90	18.86

LTE Band 48

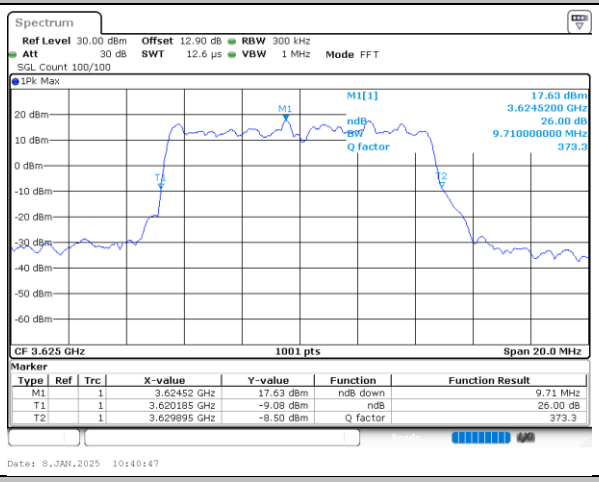
Middle Channel / 5MHz / QPSK



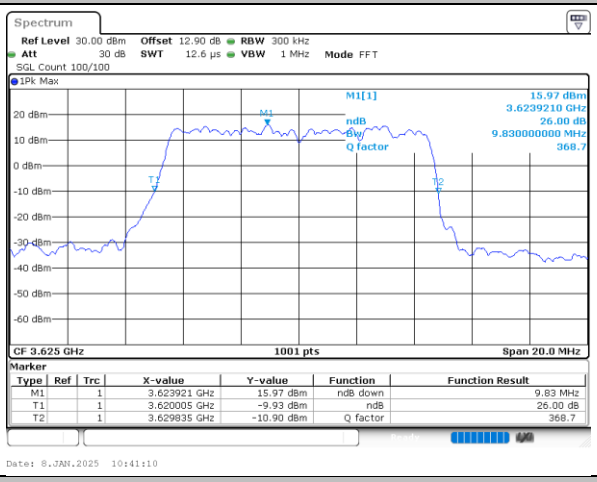
Middle Channel / 5MHz / 16QAM



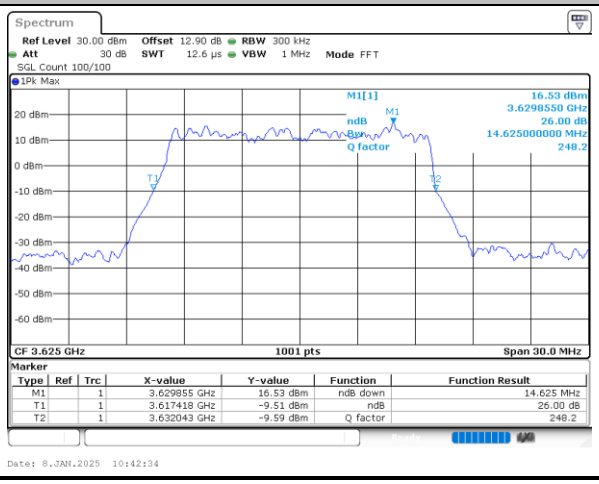
Middle Channel / 10MHz / QPSK



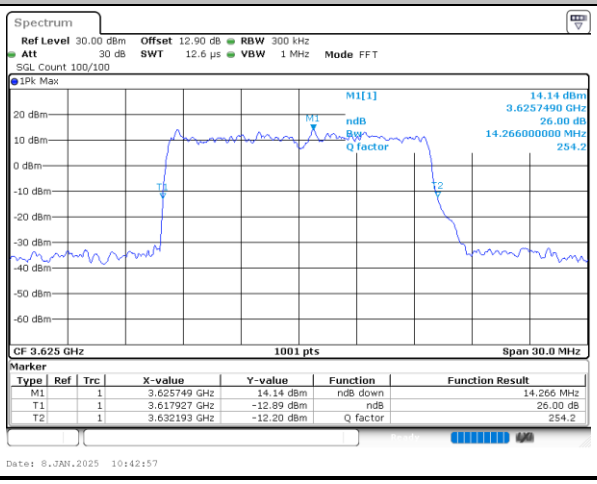
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK

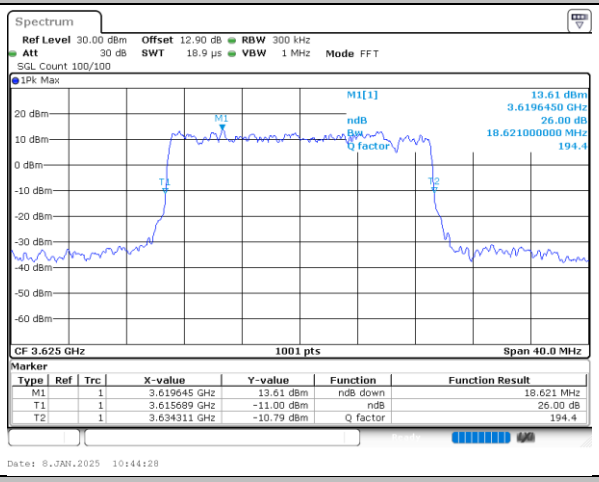


Middle Channel / 15MHz / 16QAM

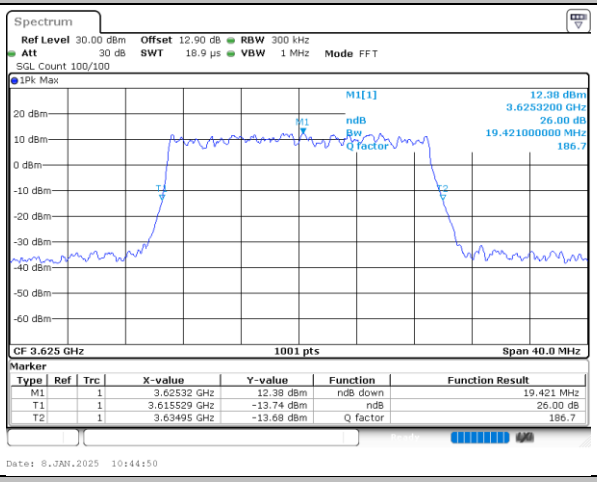


LTE Band 48

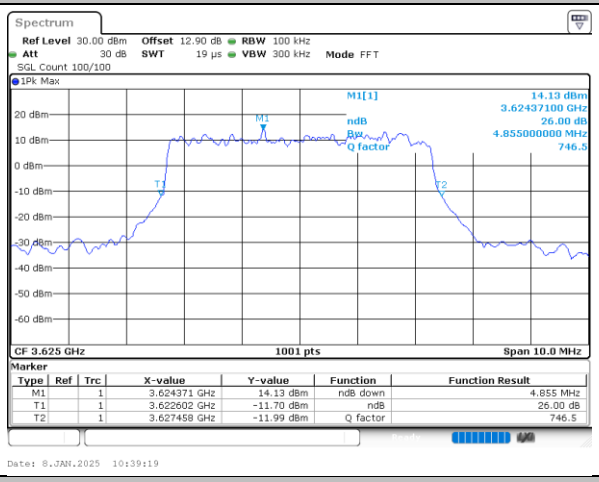
Middle Channel / 20MHz / QPSK



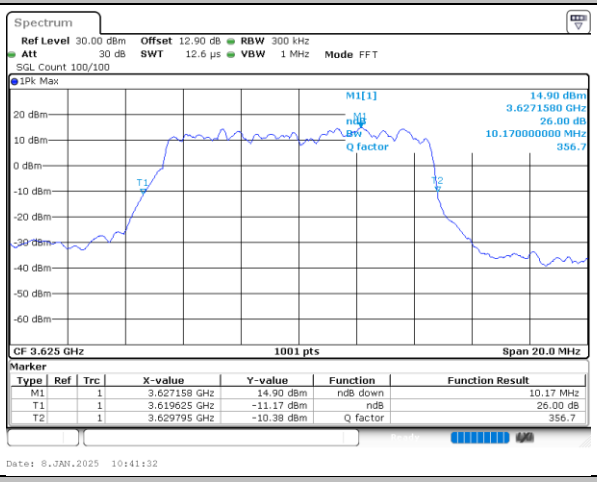
Middle Channel / 20MHz / 16QAM



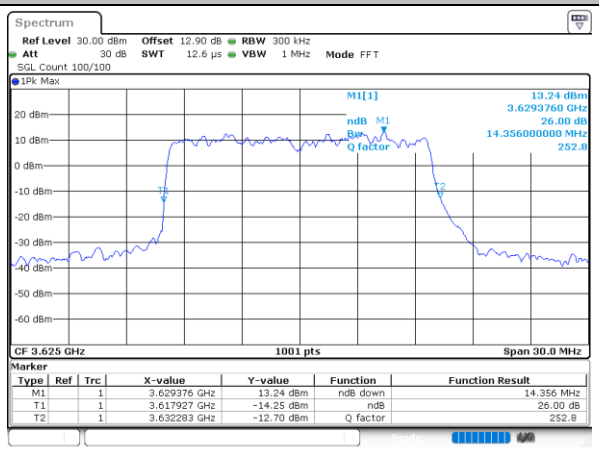
Middle Channel / 5MHz / 64QAM



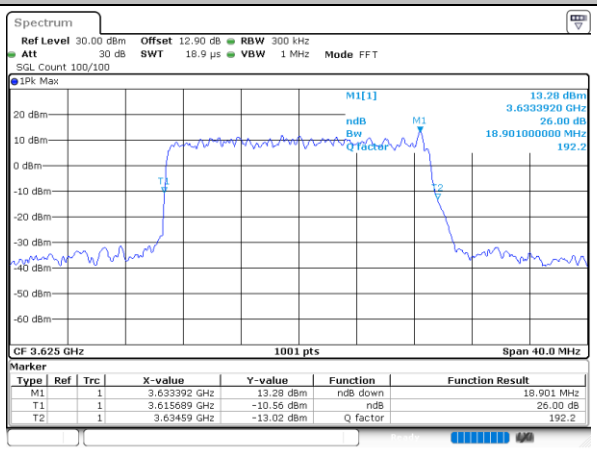
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM

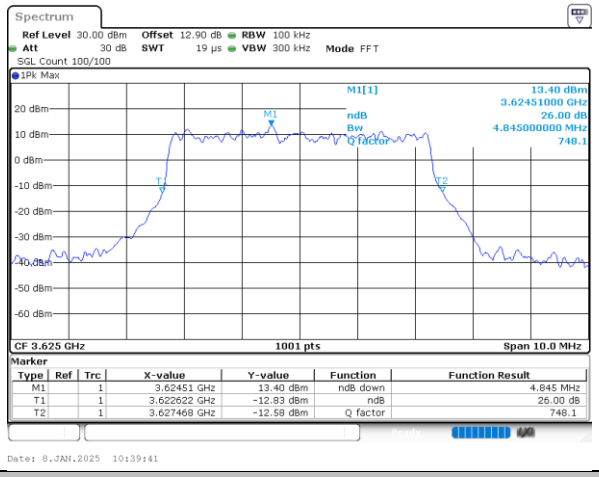


Middle Channel / 20MHz / 64QAM

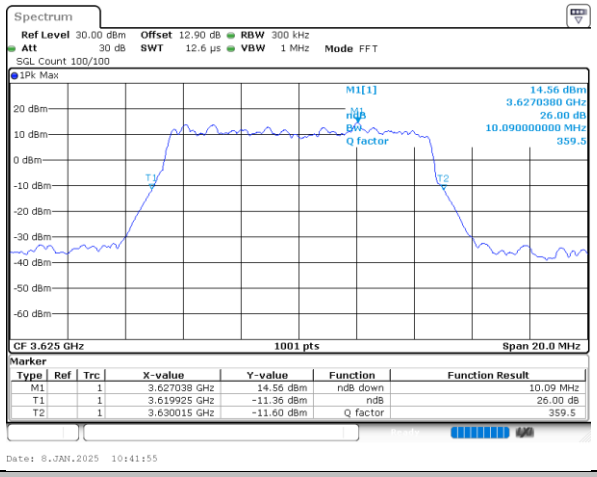


LTE Band 48

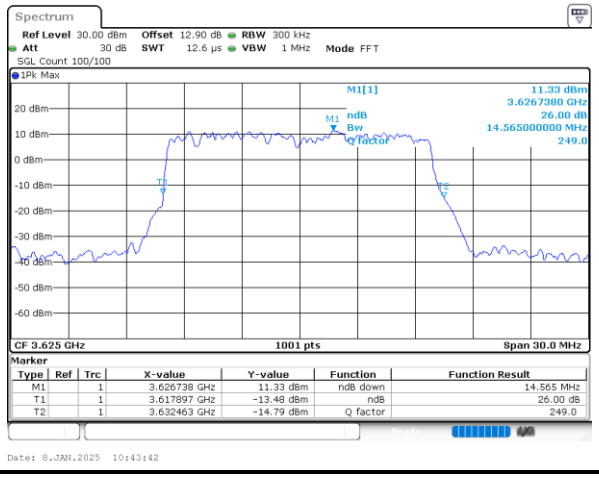
Middle Channel / 5MHz / 256QAM



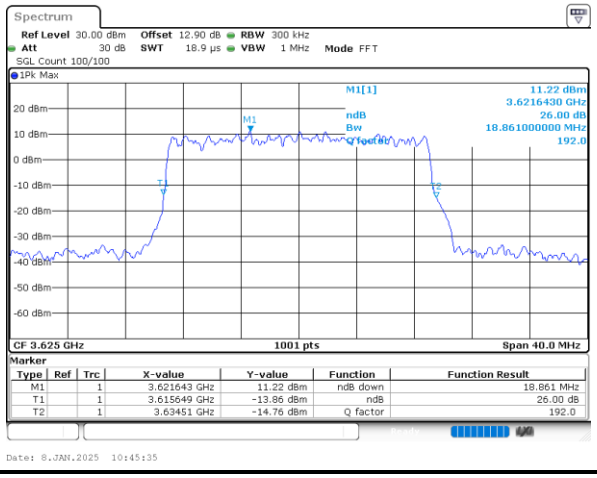
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

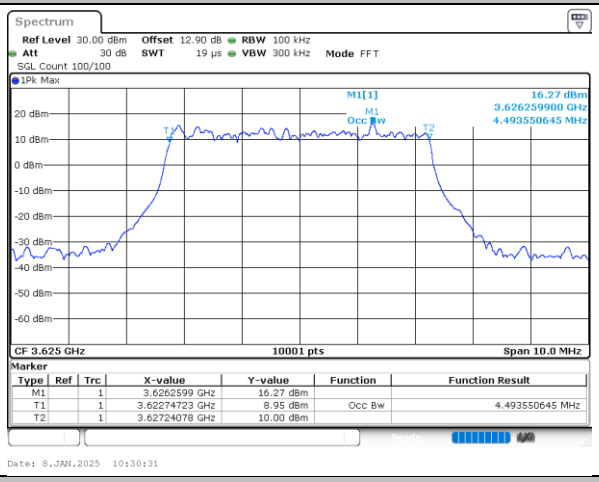


Occupied Bandwidth

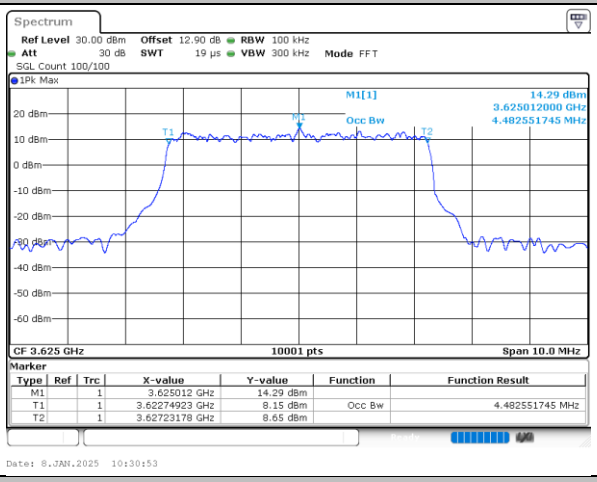
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.48	9.03	9.06	13.44	13.47	17.88	17.93
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.48	4.45	9.11	9.07	13.40	13.44	17.81	17.80

LTE Band 48

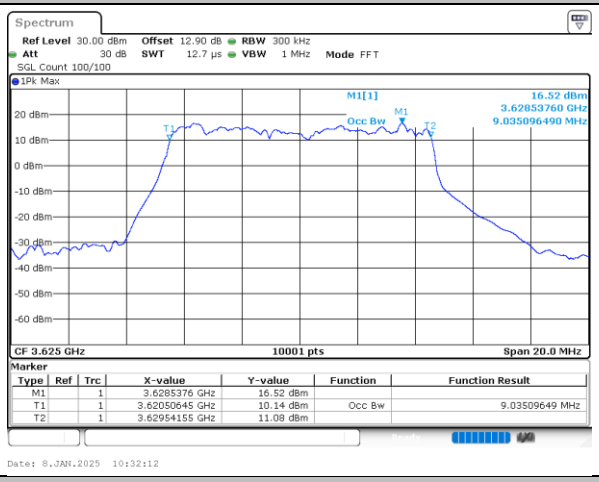
Middle Channel / 5MHz / QPSK



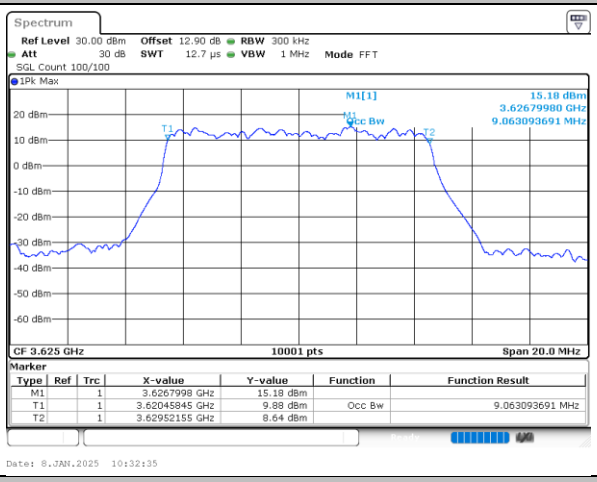
Middle Channel / 5MHz / 16QAM



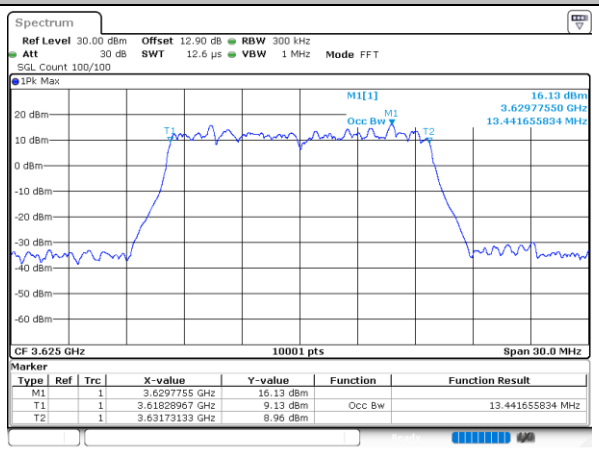
Middle Channel / 10MHz / QPSK



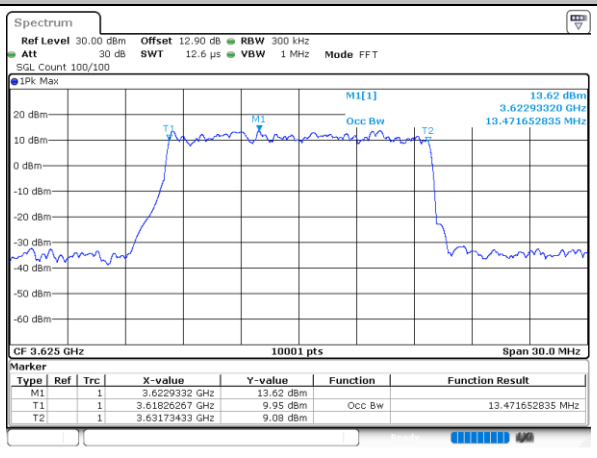
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK

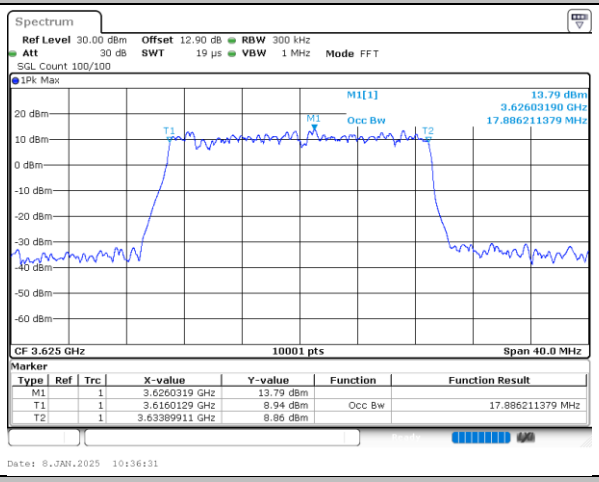


Middle Channel / 15MHz / 16QAM

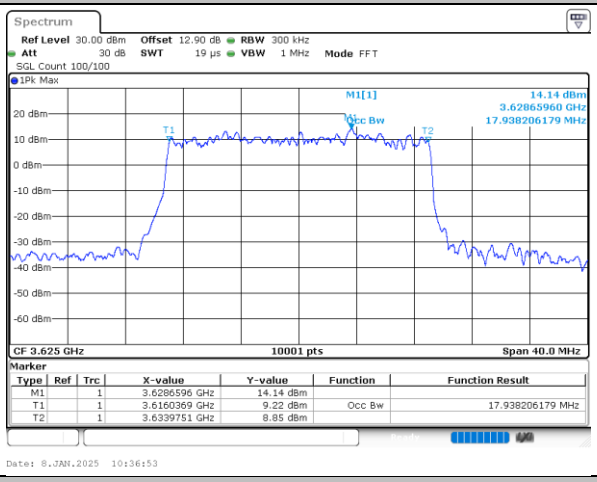


LTE Band 48

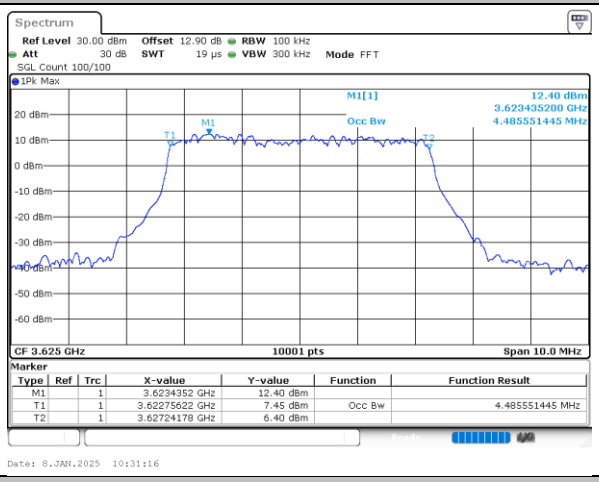
Middle Channel / 20MHz / QPSK



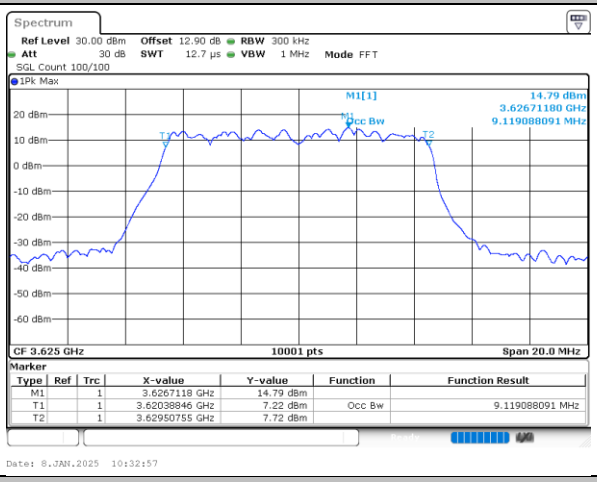
Middle Channel / 20MHz / 16QAM



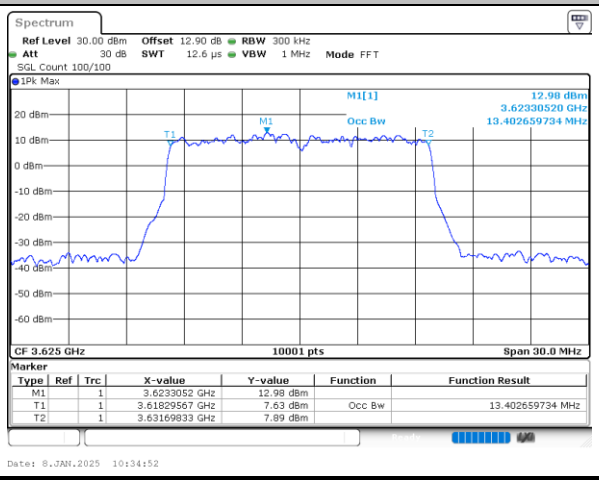
Middle Channel / 5MHz / 64QAM



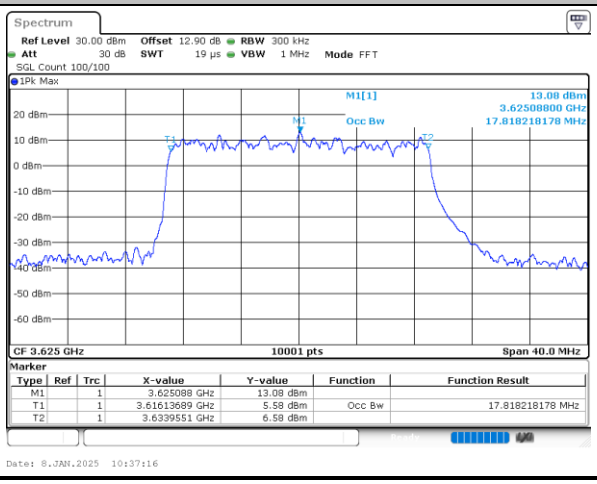
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM

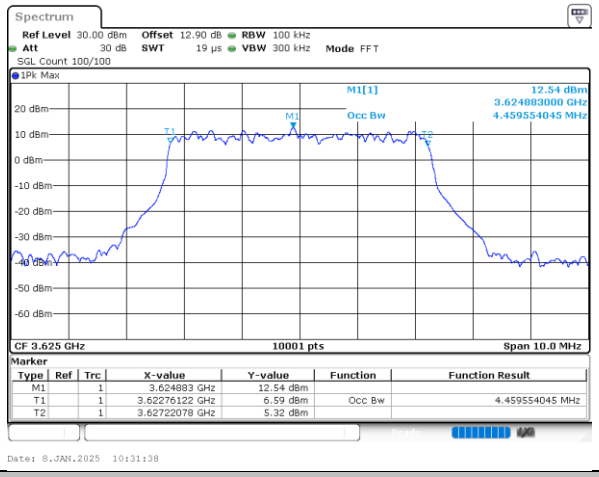


Middle Channel / 20MHz / 64QAM

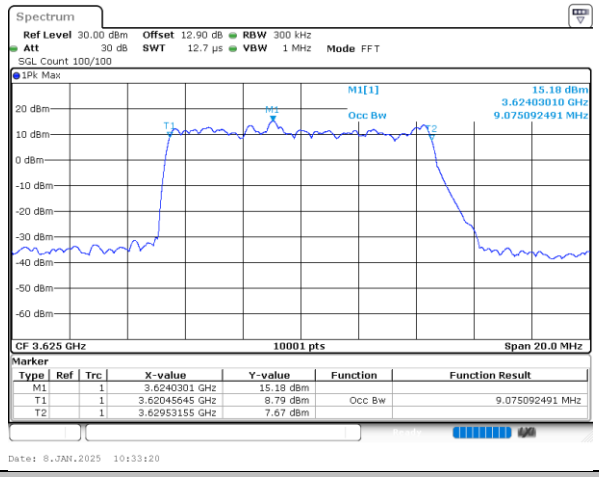


LTE Band 48

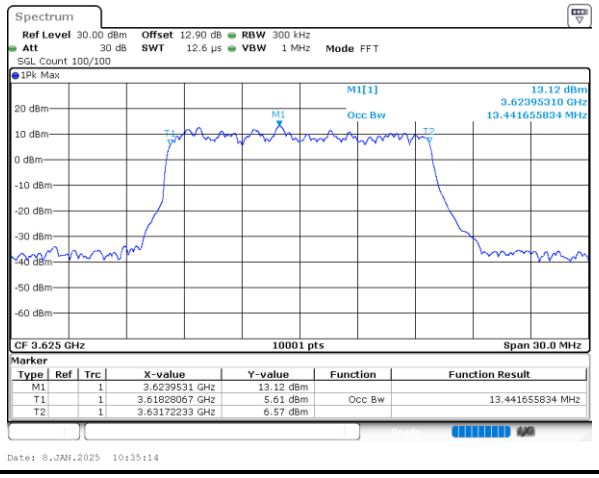
Middle Channel / 5MHz / 256QAM



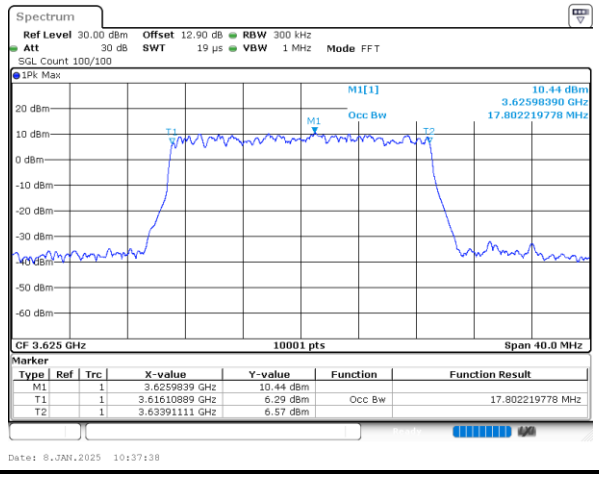
Middle Channel / 10MHz / 256QAM



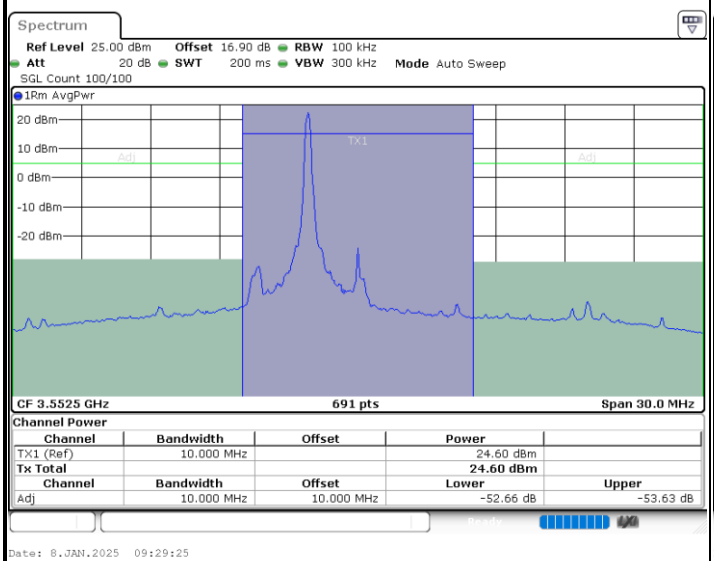
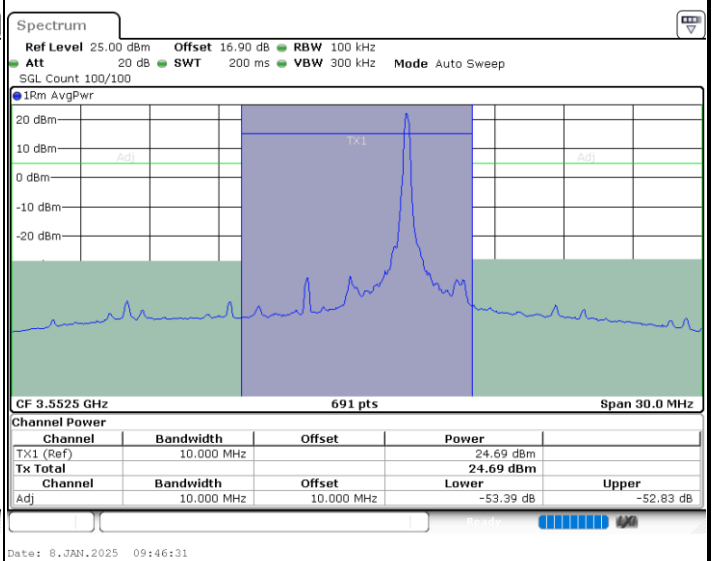
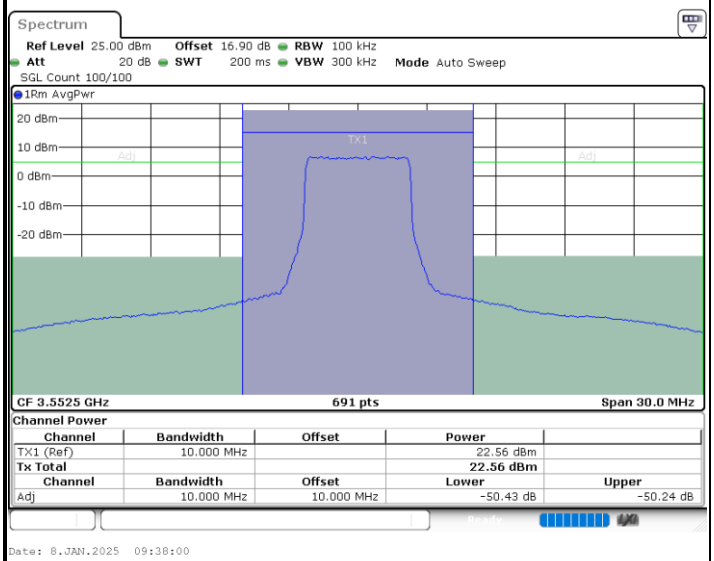
Middle Channel / 15MHz / 256QAM

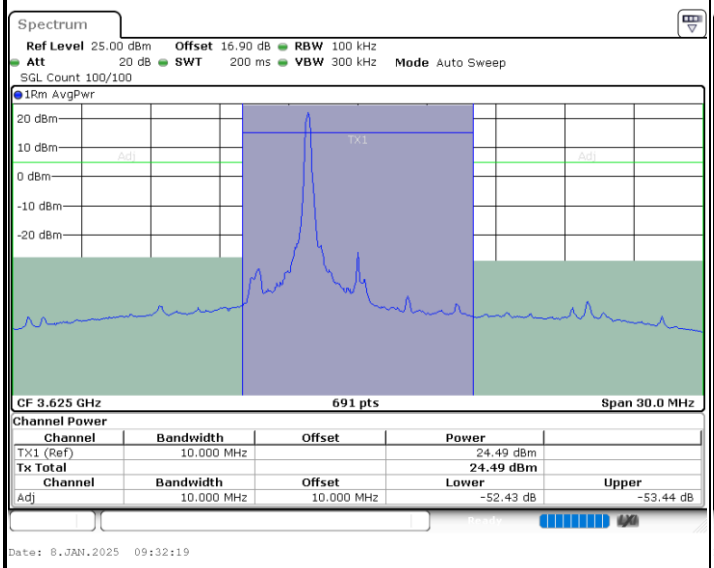
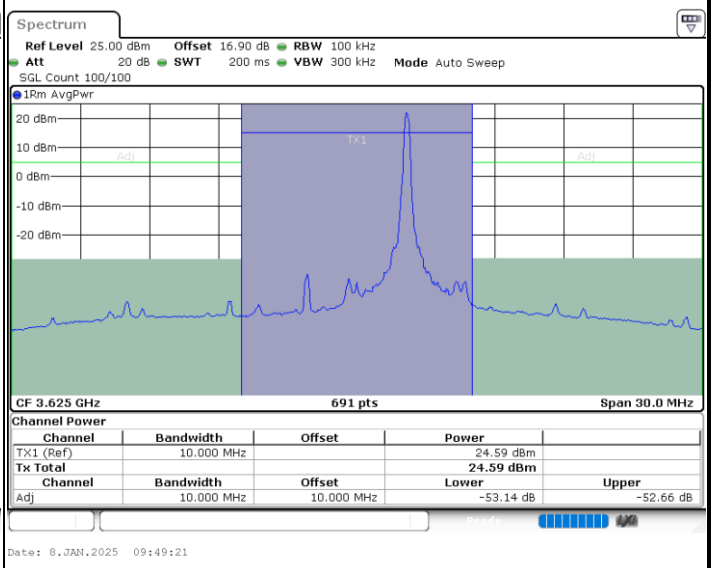
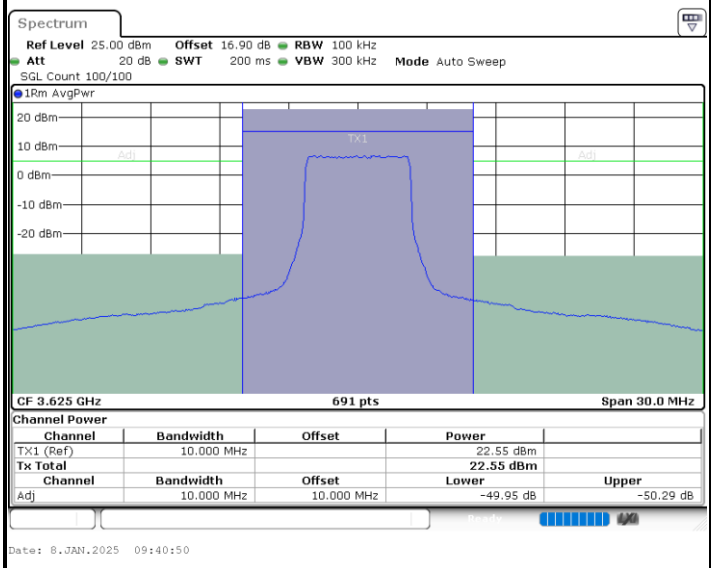


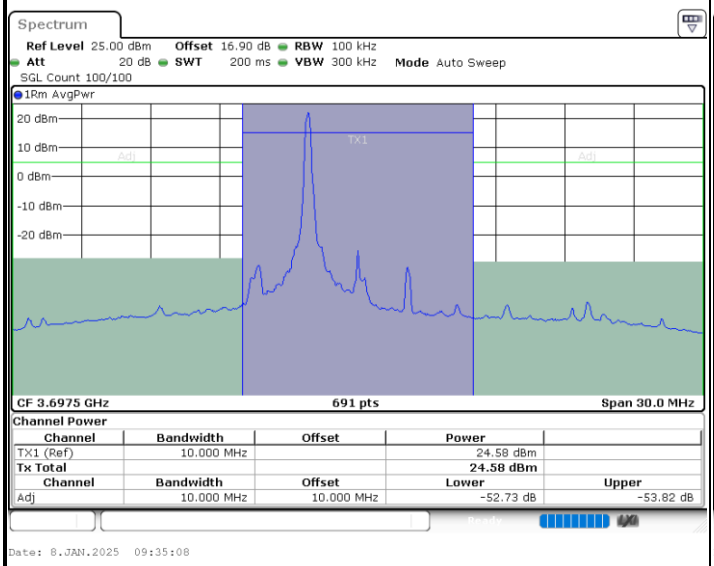
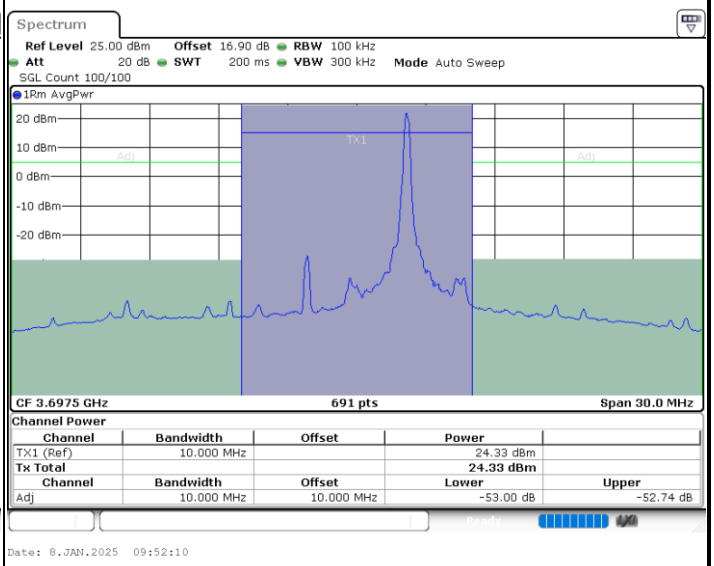
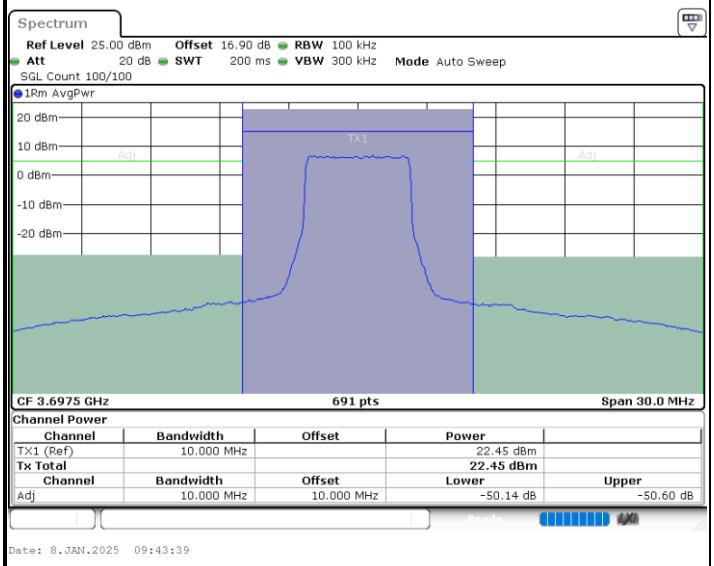
Middle Channel / 20MHz / 256QAM

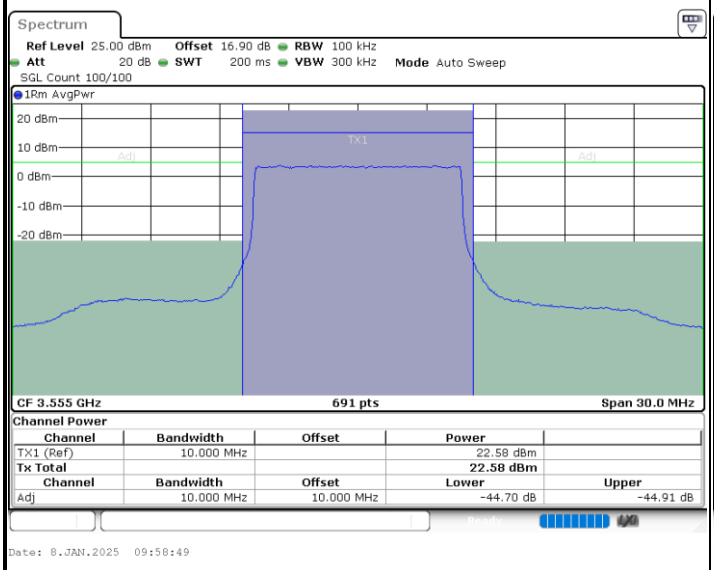
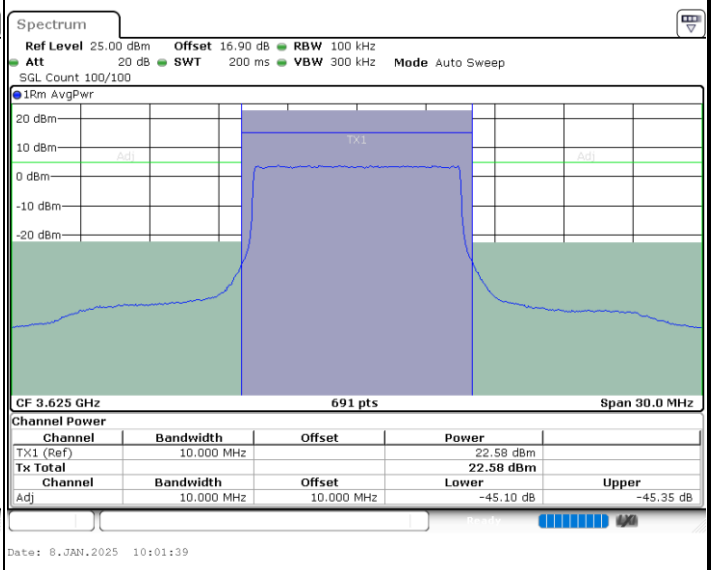
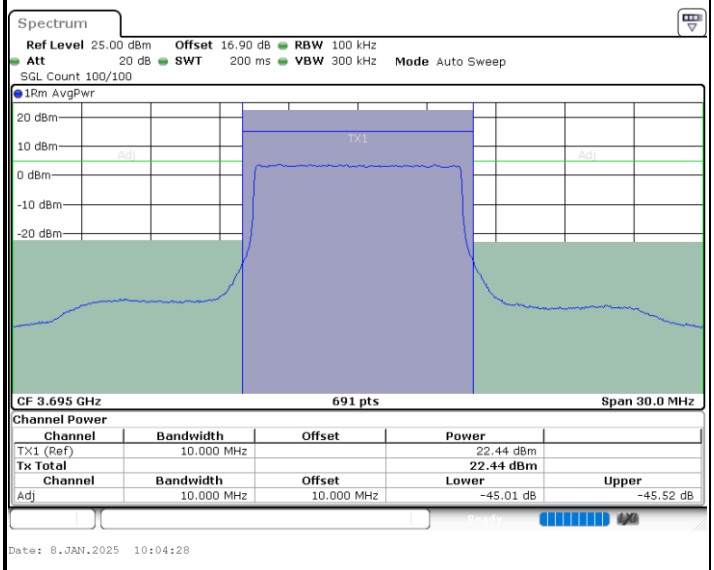


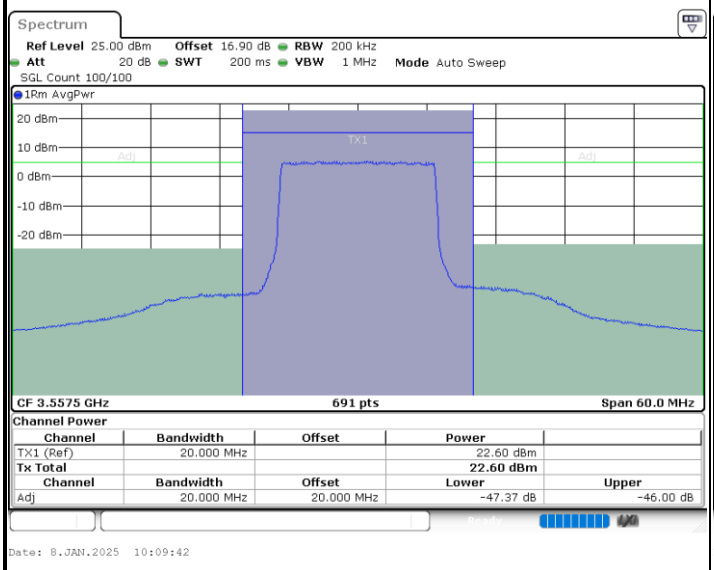
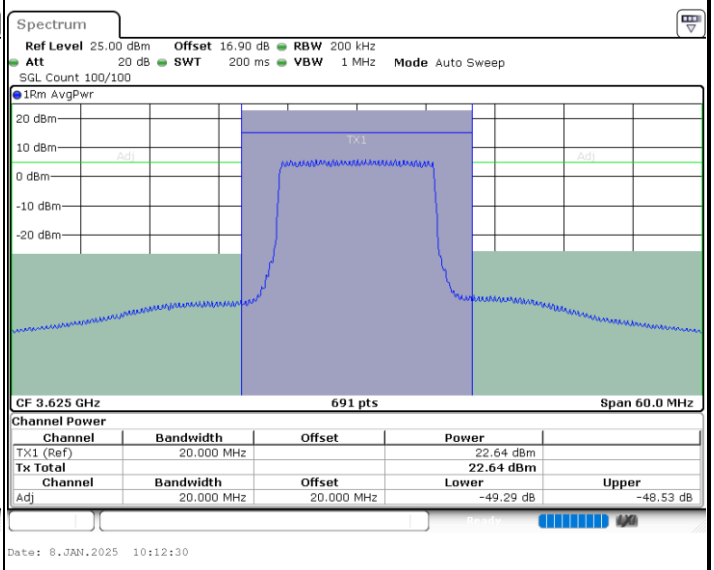
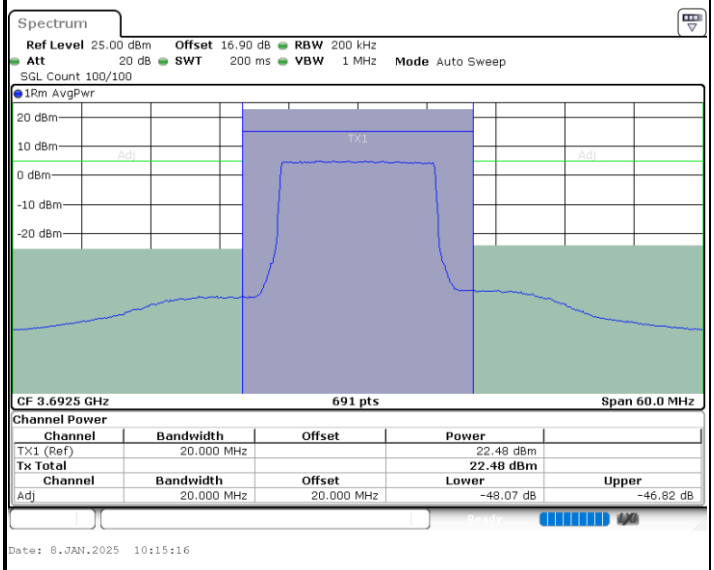
ACLR

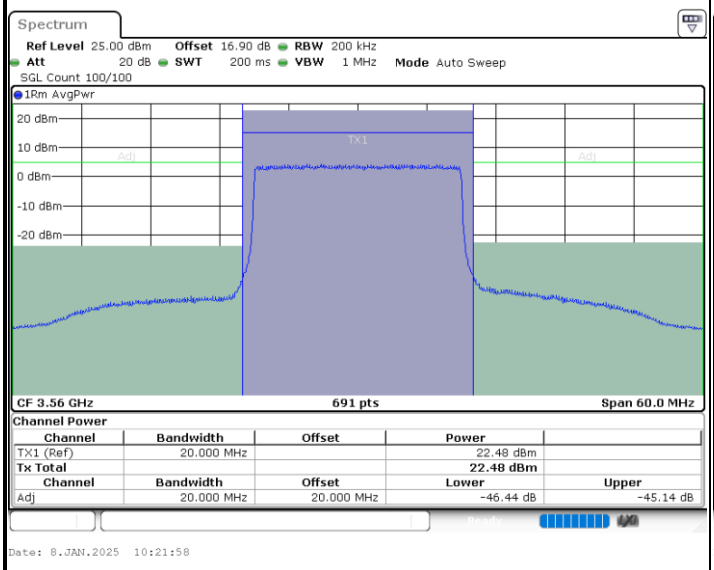
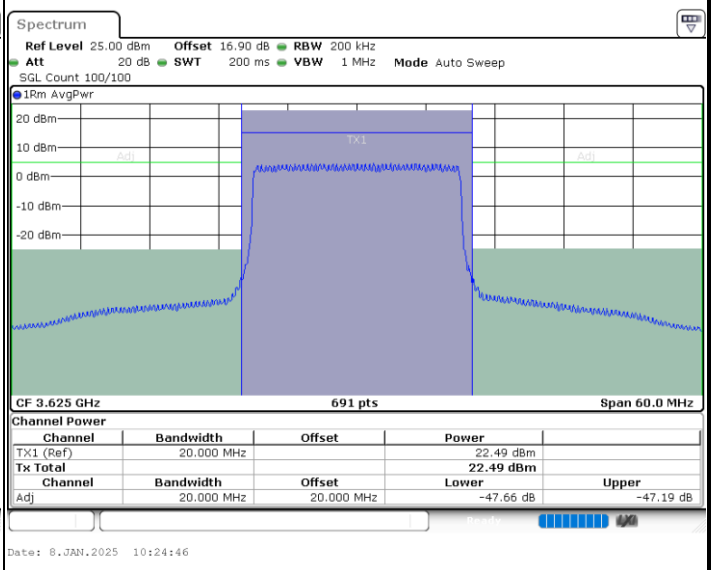
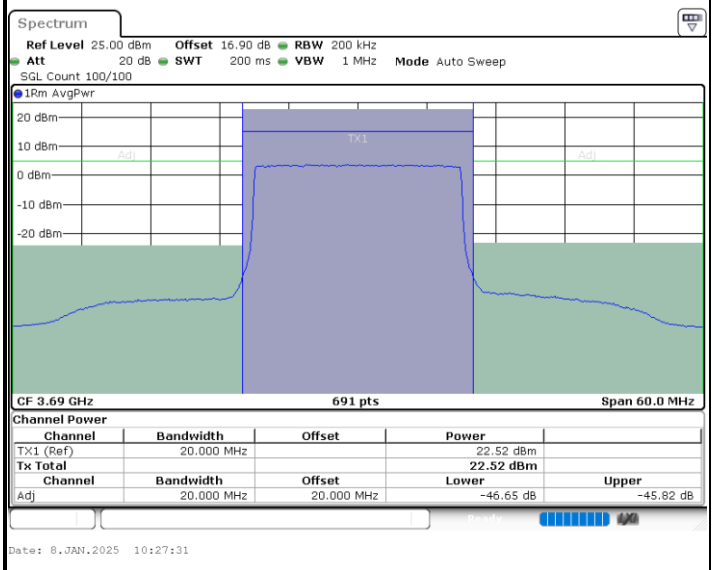
LTE Band 48 / 5MHz	
QPSK	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / FullRB	N/A
	

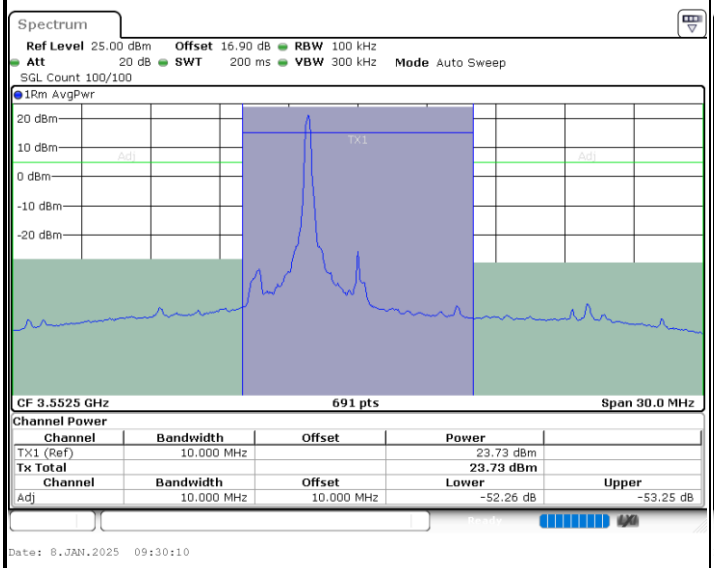
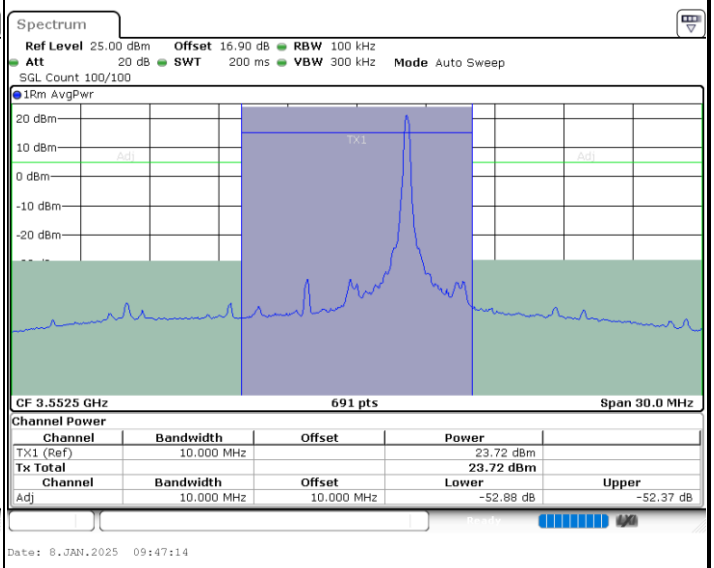
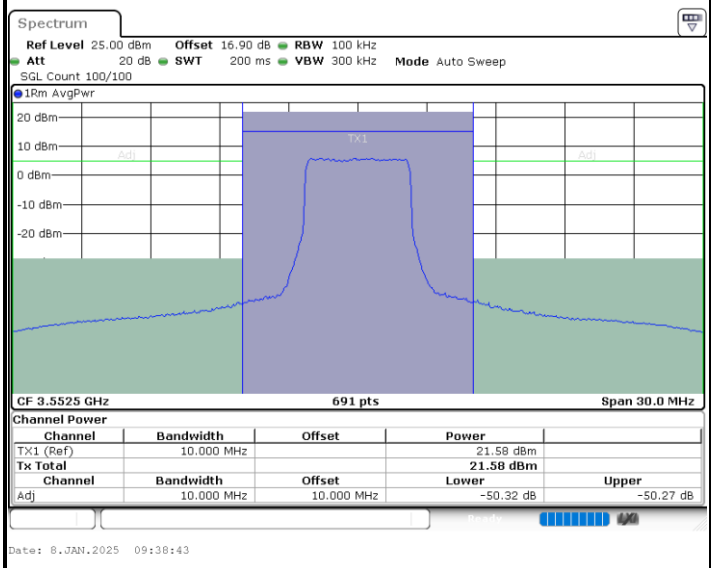
LTE Band 48 / 5MHz	
QPSK	
Middle Channel / 1RB0	Middle Channel / 1RBmax
	
Middle Channel / FullRB	N/A
	

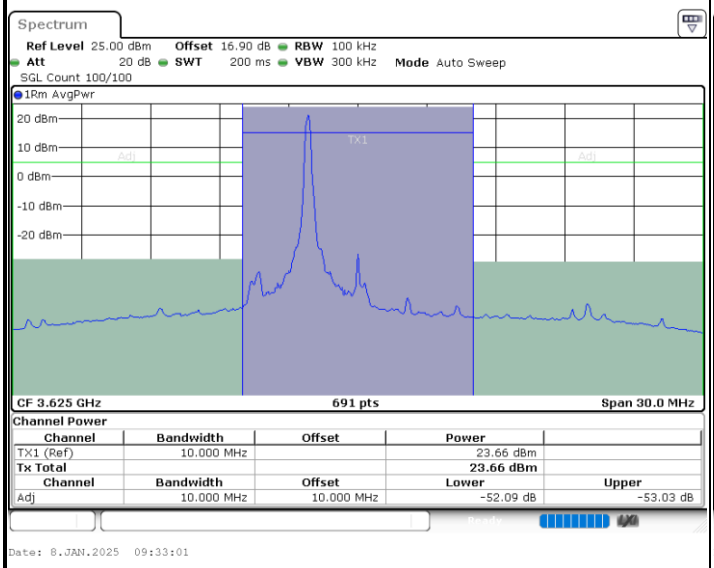
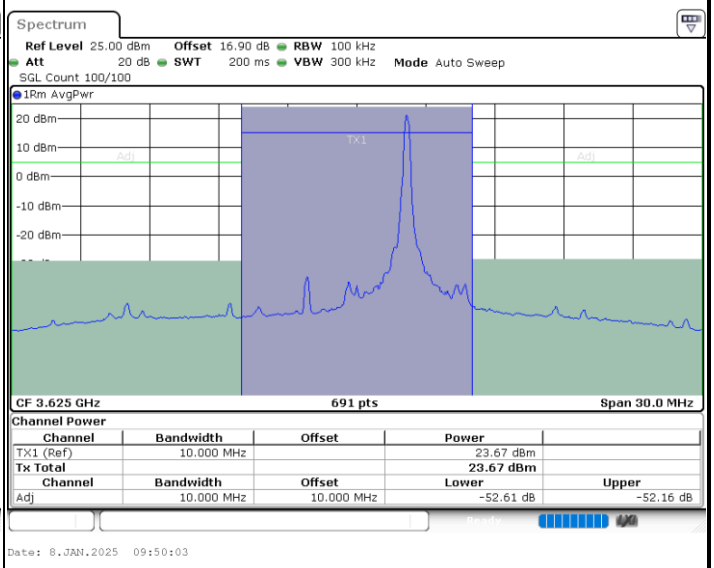
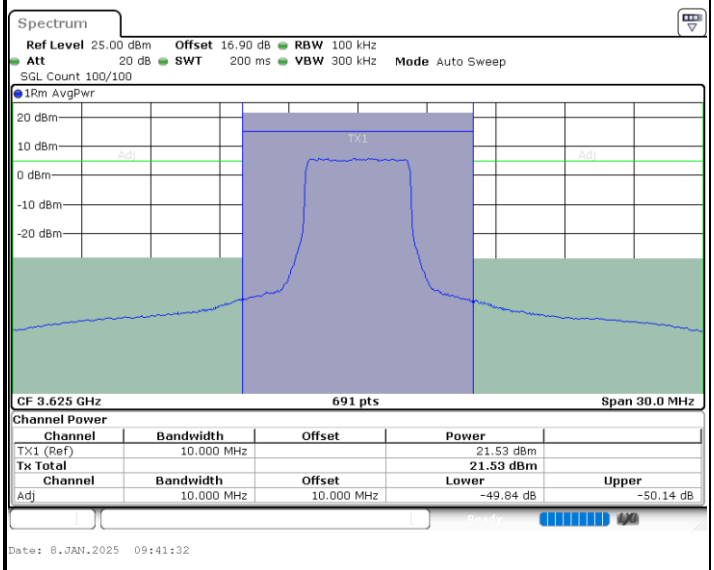
LTE Band 48 / 5MHz	
QPSK	
Highest Channel / 1RB0	Highest Channel / 1RBmax
	
Highest Channel / FullRB	N/A
	

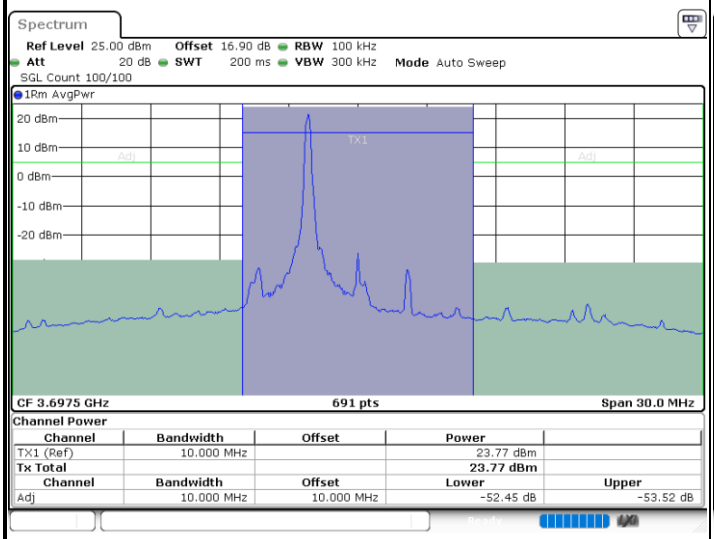
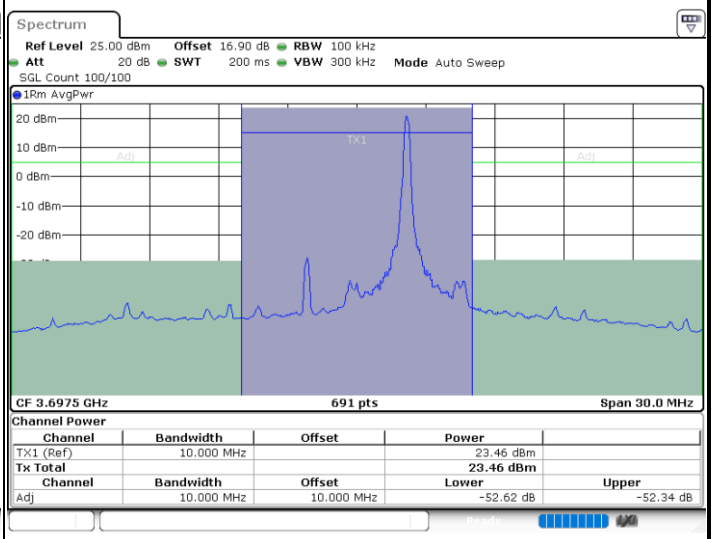
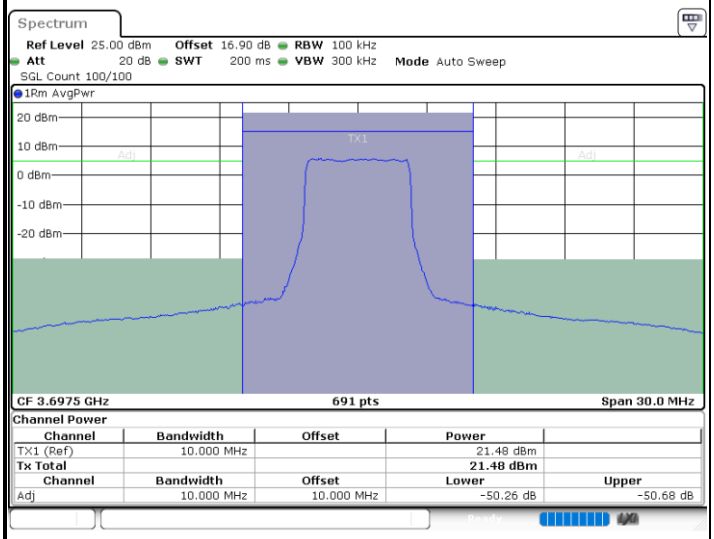
LTE Band 48 / 10MHz	
QPSK	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

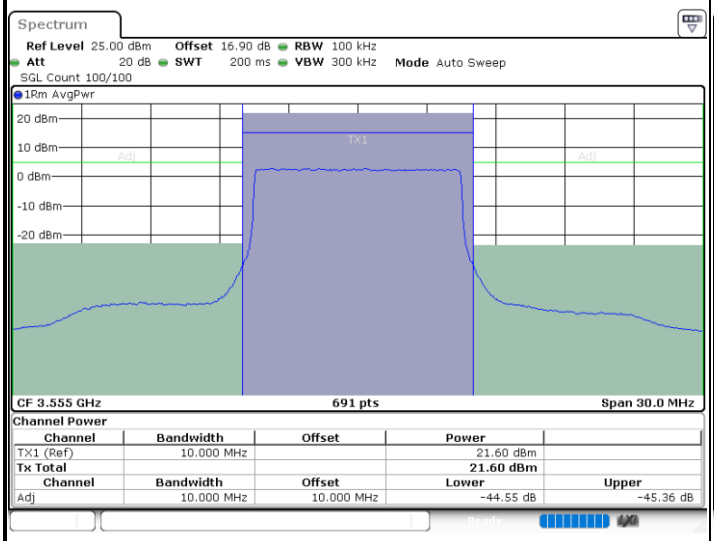
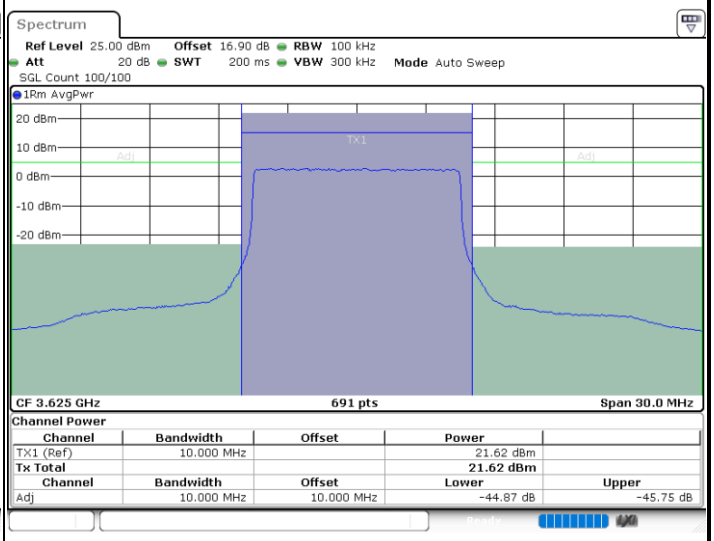
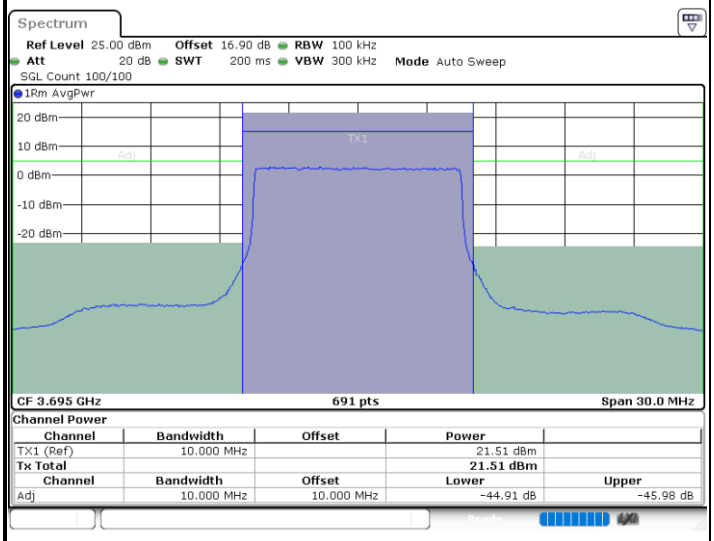
LTE Band 48 / 15MHz	
QPSK	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

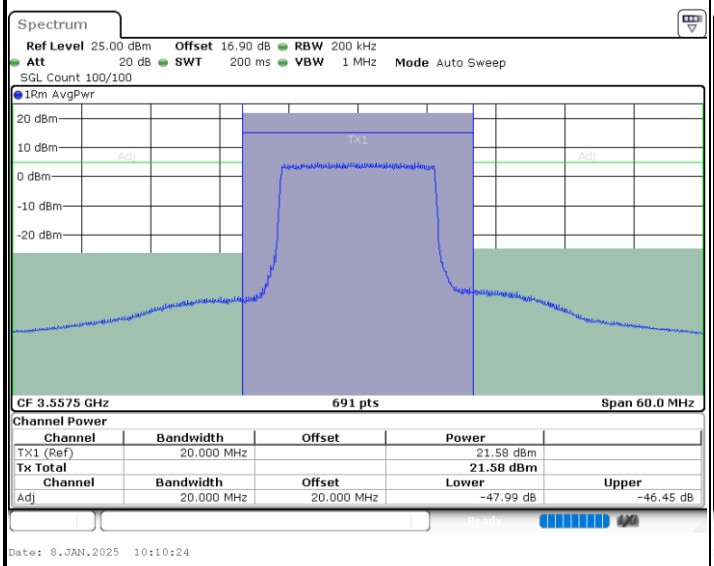
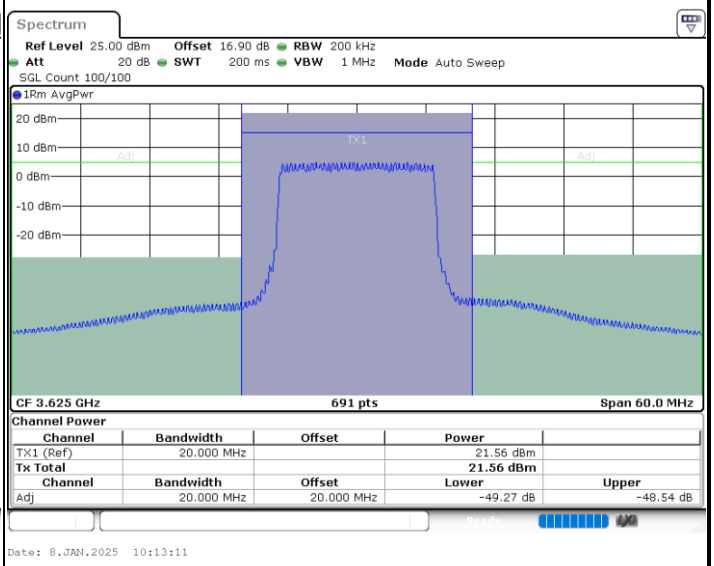
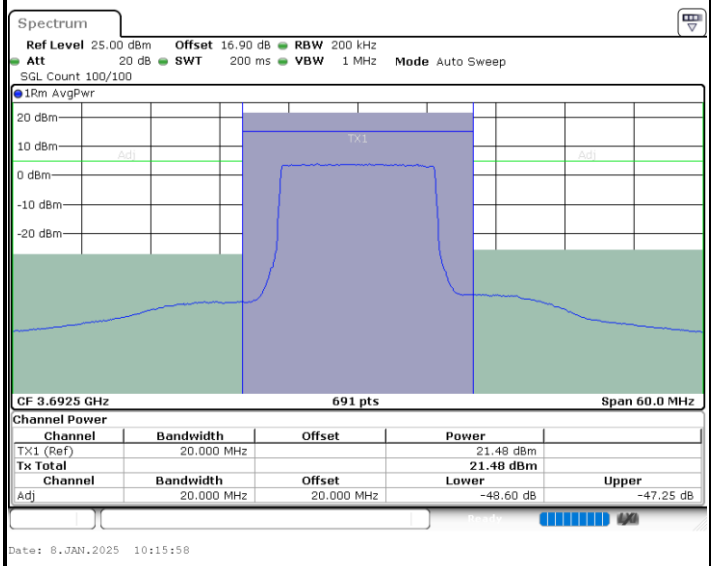
LTE Band 48 / 20MHz	
QPSK	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

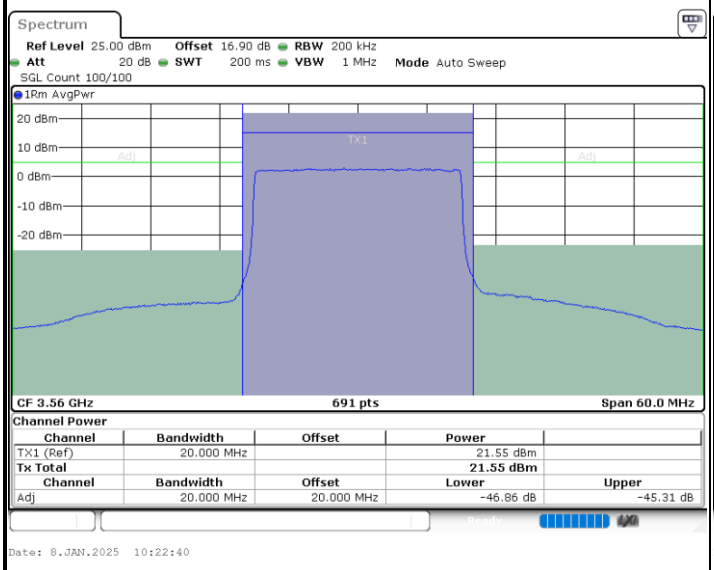
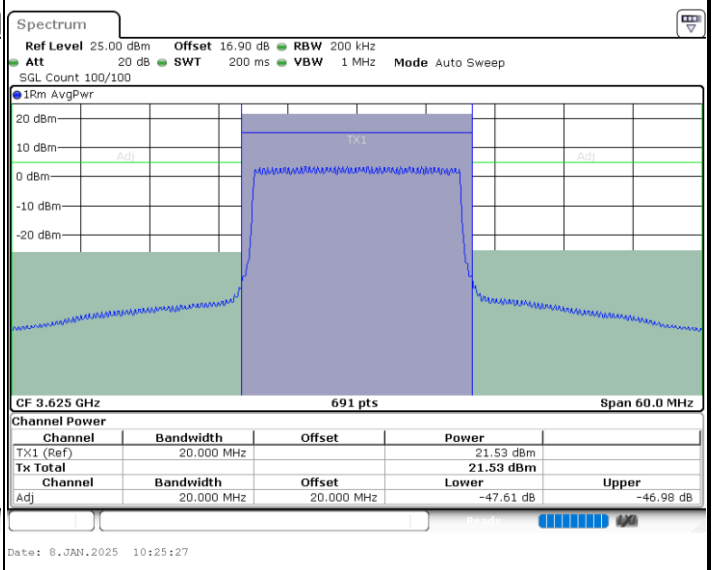
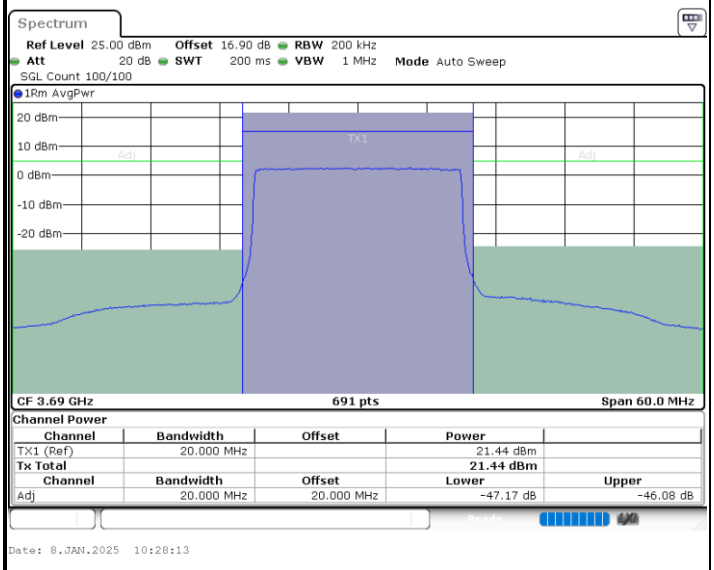
LTE Band 48 / 5MHz	
16QAM	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / FullRB	N/A
	

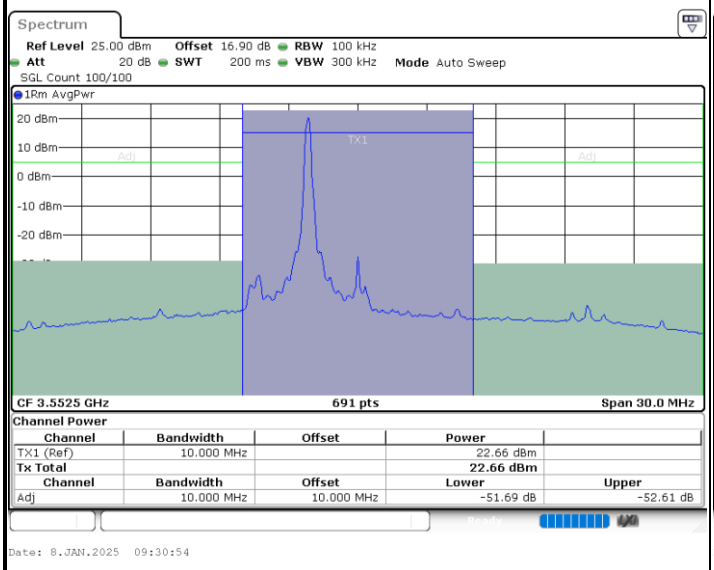
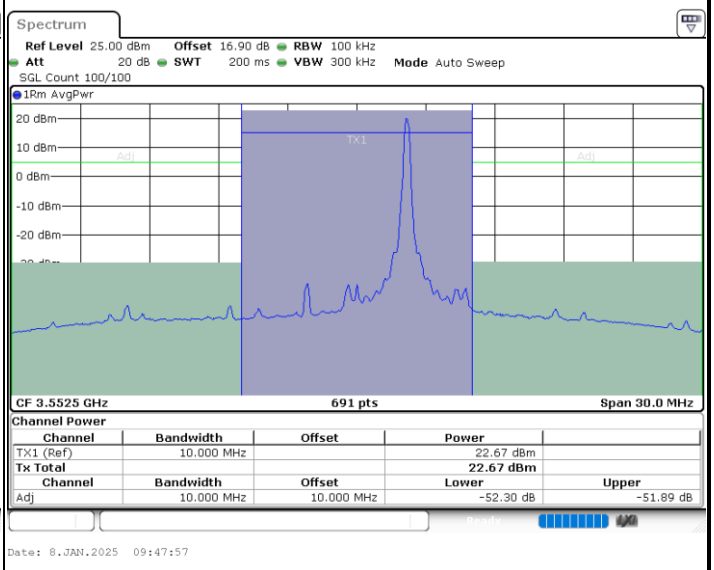
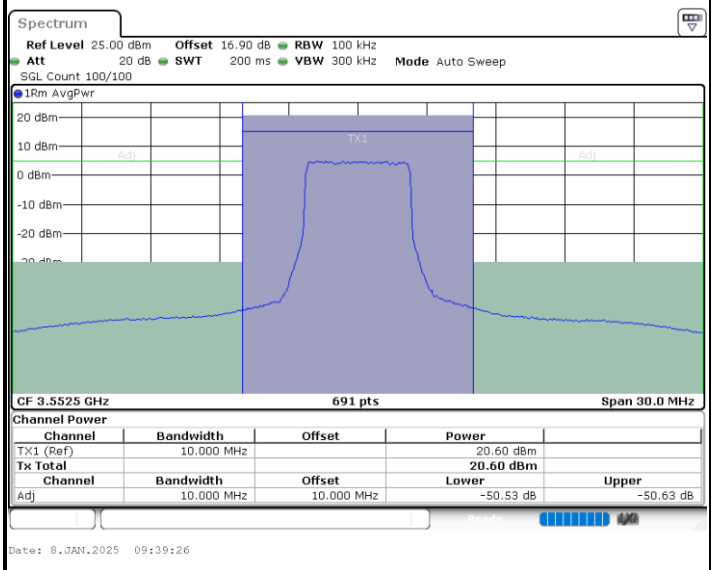
LTE Band 48 / 5MHz	
16QAM	
Middle Channel / 1RB0	Middle Channel / 1RBmax
	
Middle Channel / FullRB	N/A
	

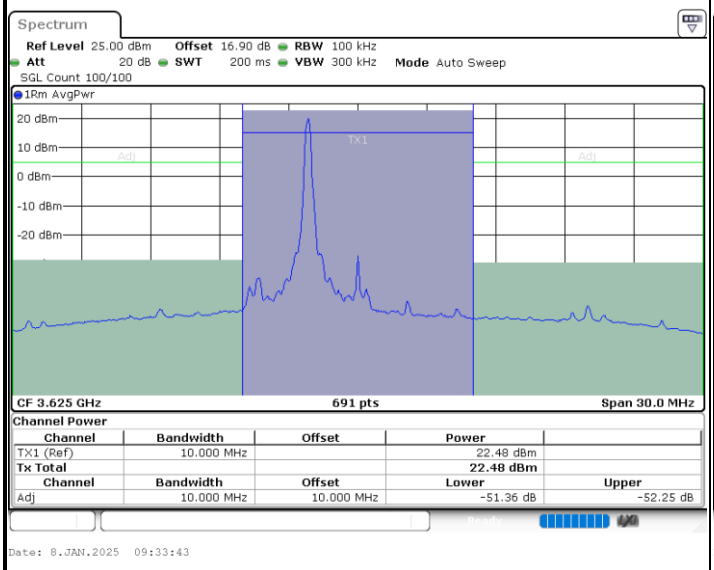
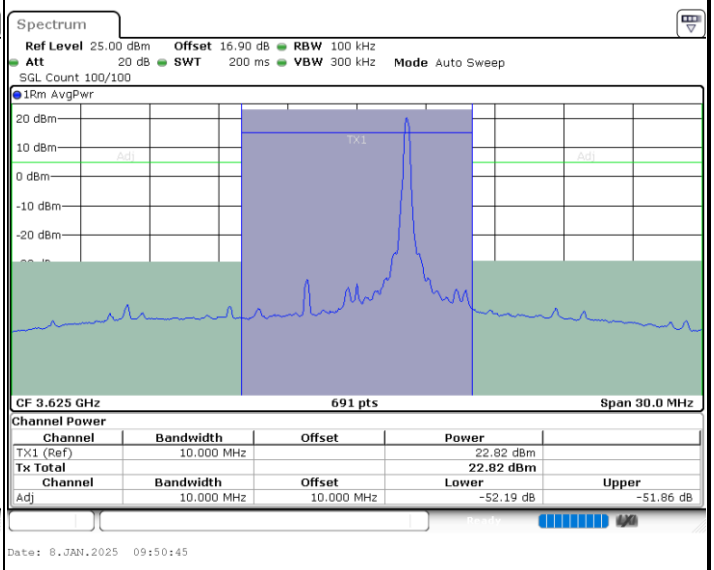
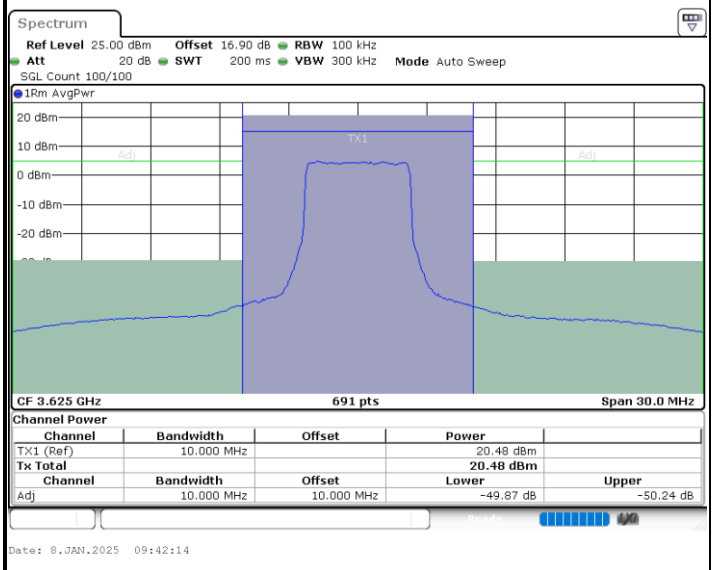
LTE Band 48 / 5MHz	
16QAM	
Highest Channel / 1RB0	Highest Channel / 1RBmax
	
Highest Channel / FullRB	N/A
	

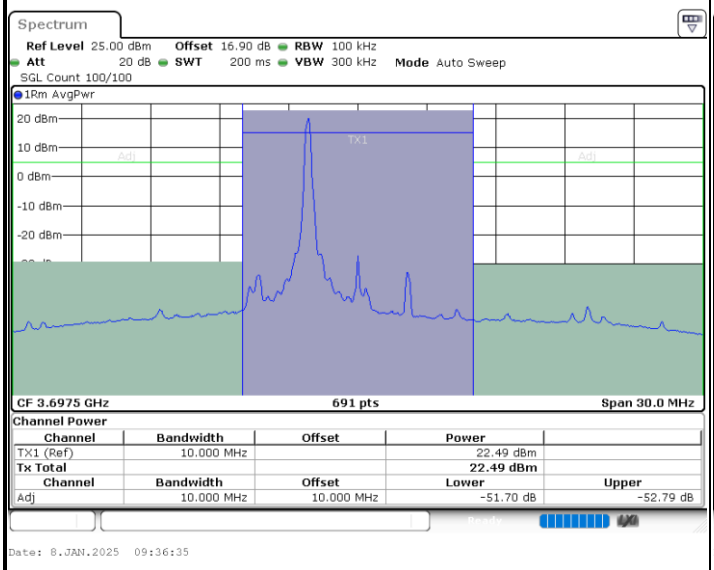
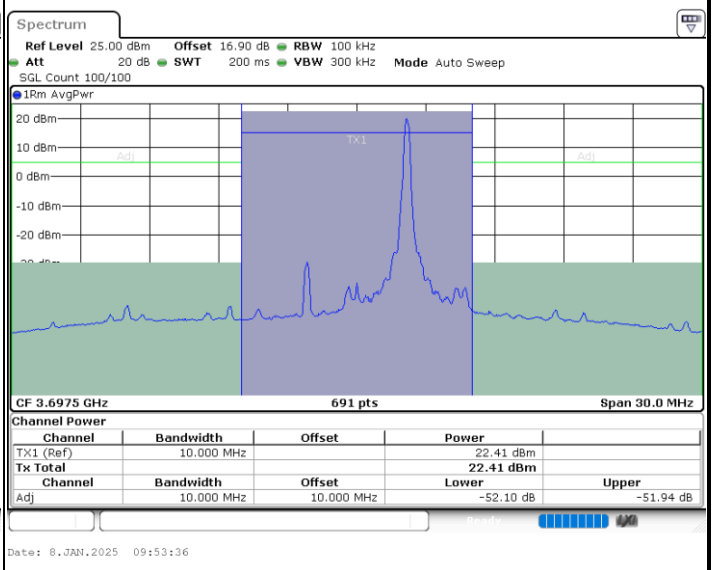
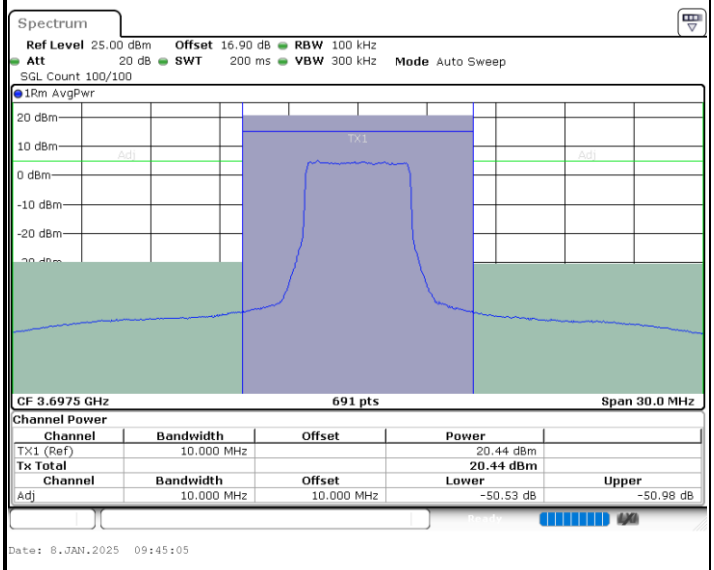
LTE Band 48 / 10MHz	
16QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

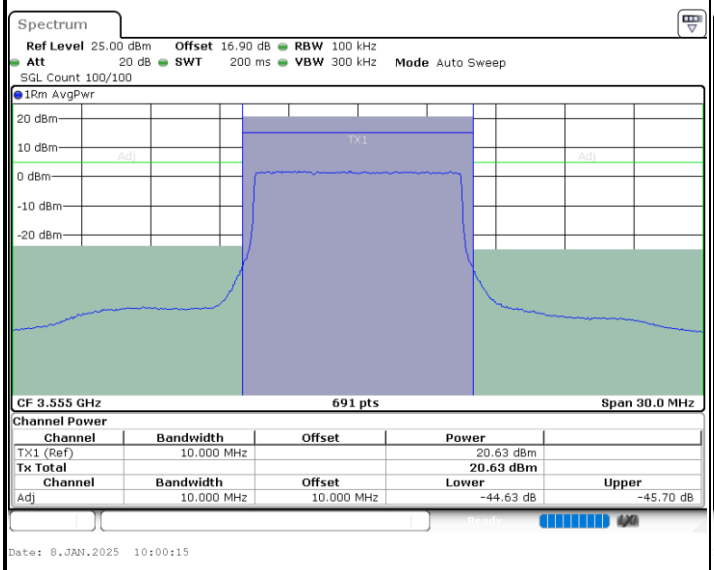
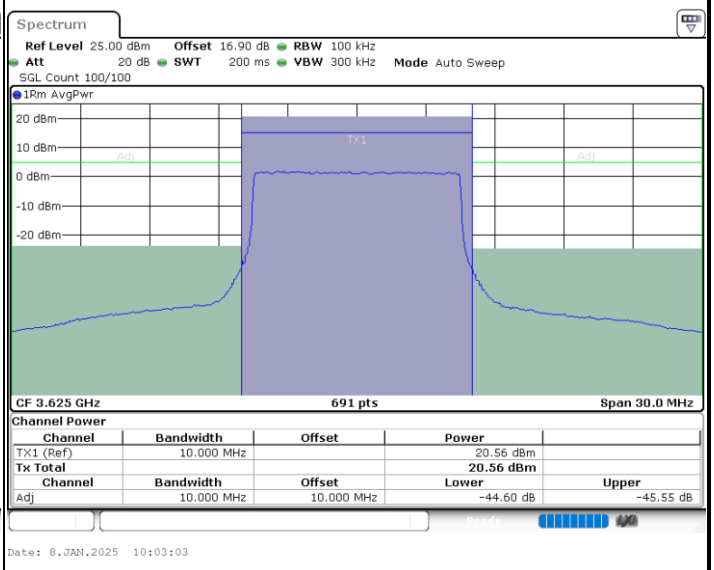
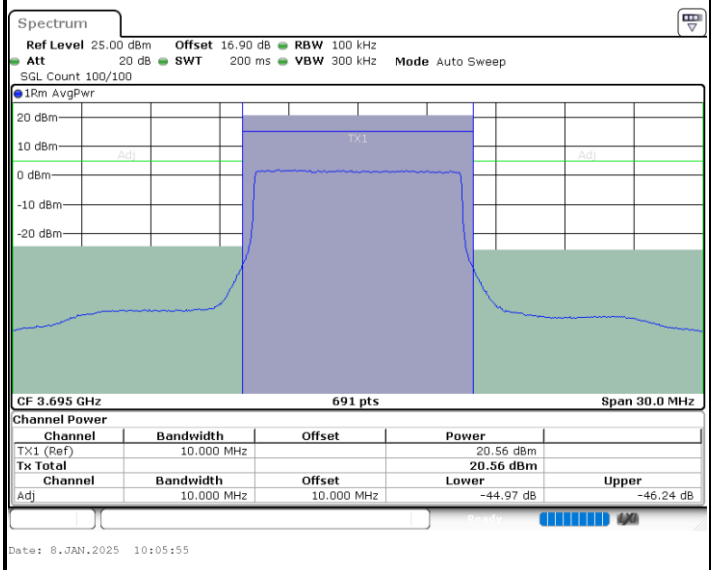
LTE Band 48 / 15MHz	
16QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

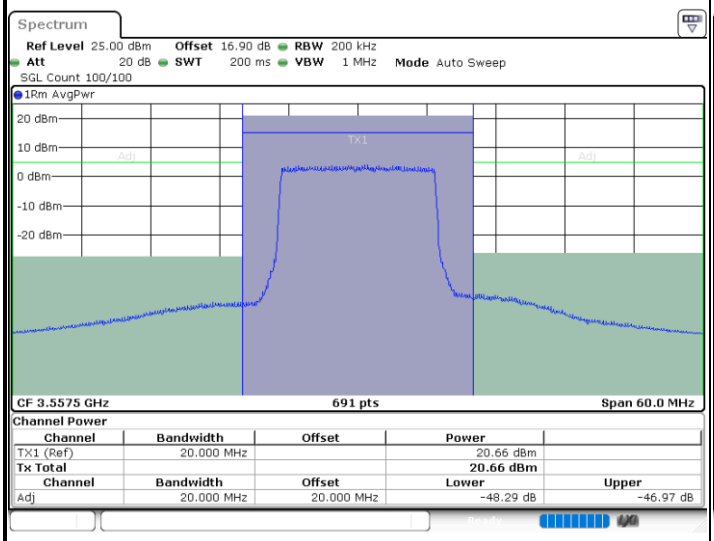
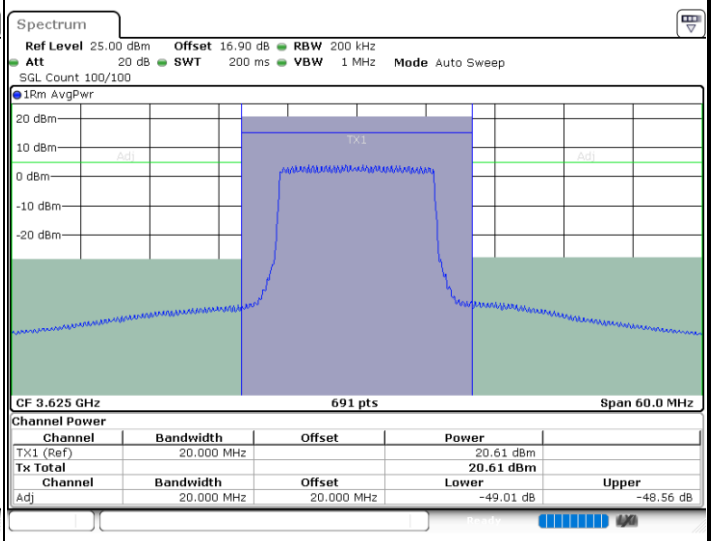
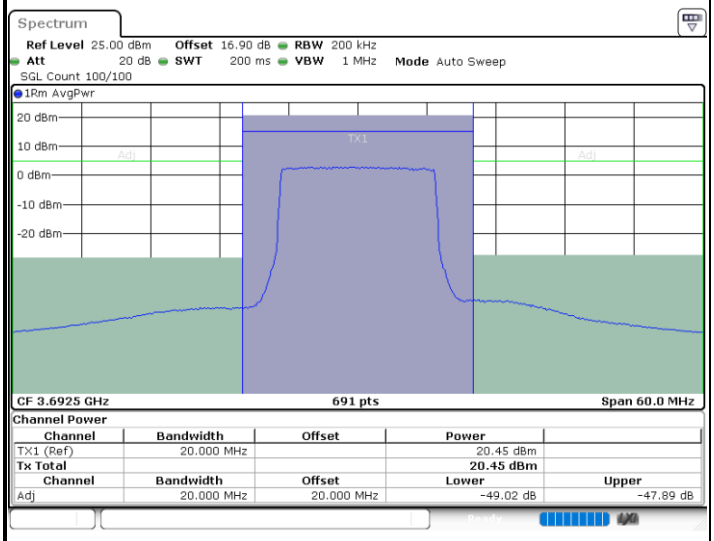
LTE Band 48 / 20MHz	
16QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

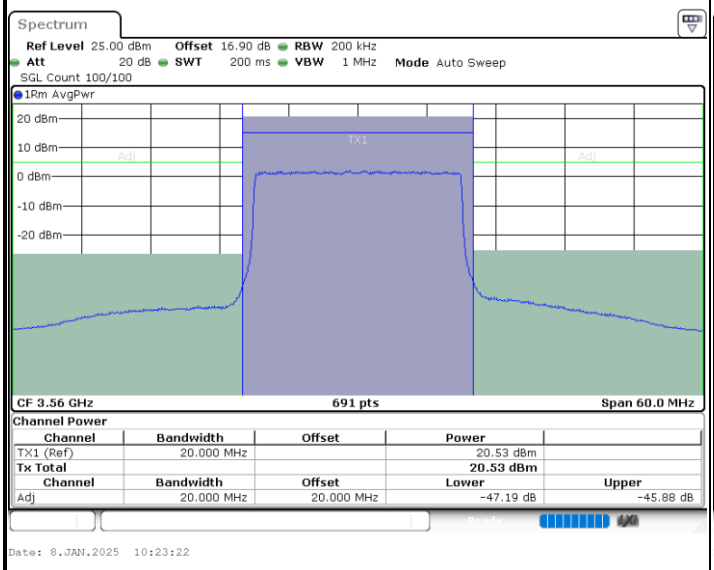
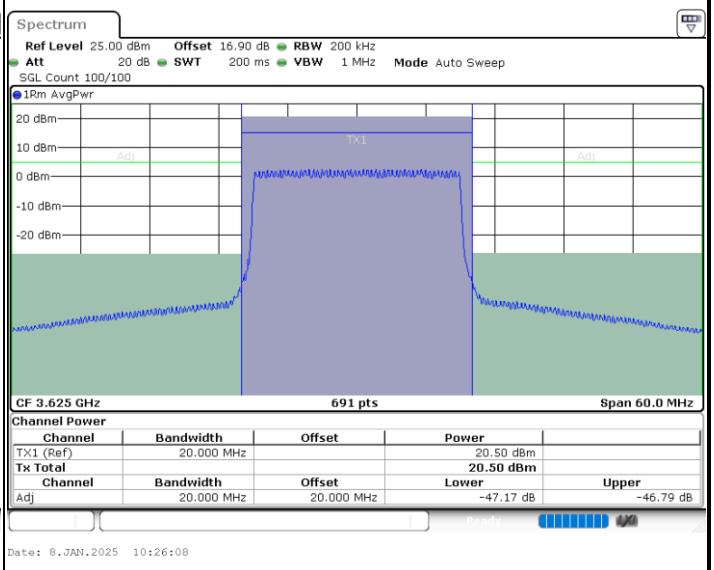
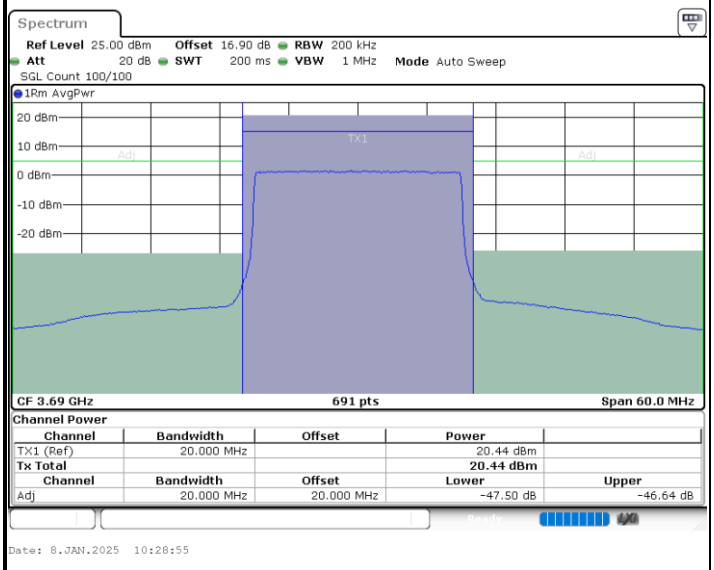
LTE Band 48 / 5MHz	
64QAM	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / FullRB	N/A
	

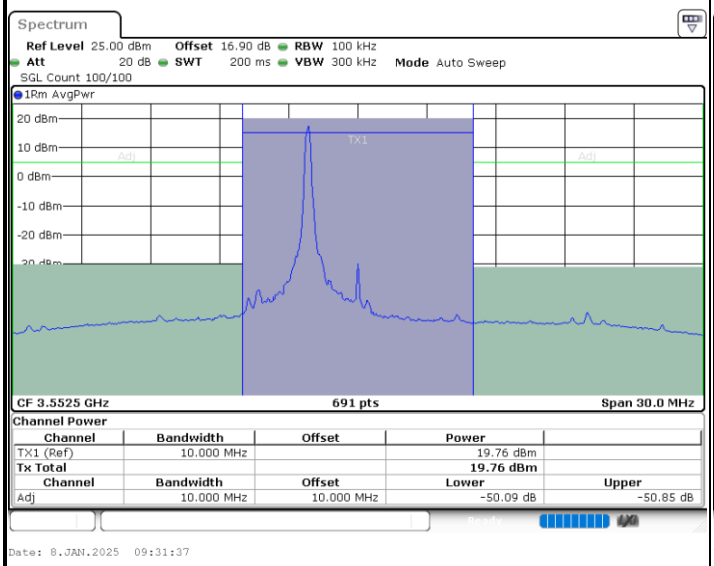
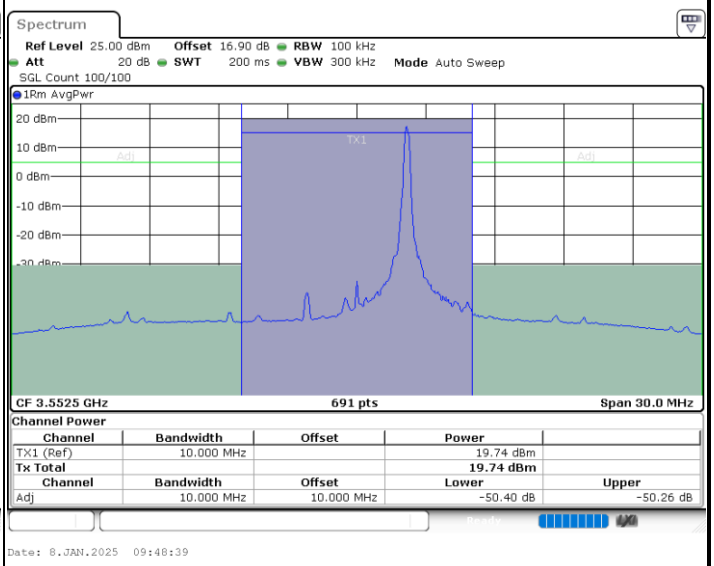
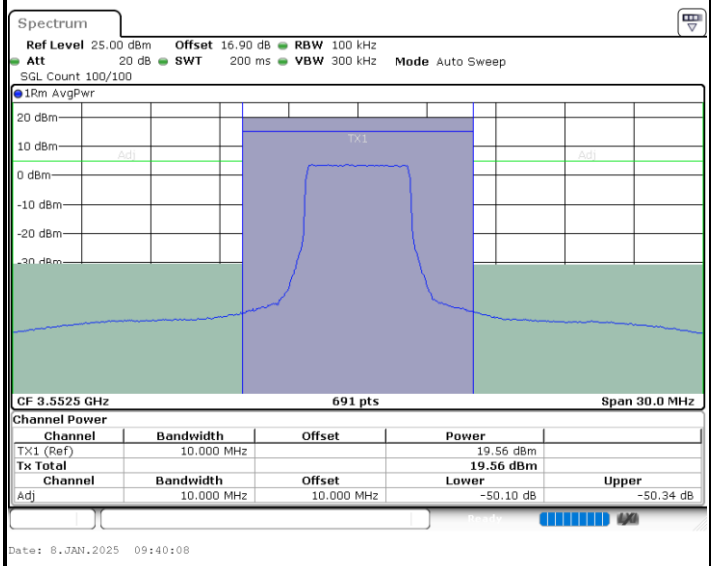
LTE Band 48 / 5MHz	
64QAM	
Middle Channel / 1RB0	Middle Channel / 1RBmax
	
Middle Channel / FullRB	N/A
	

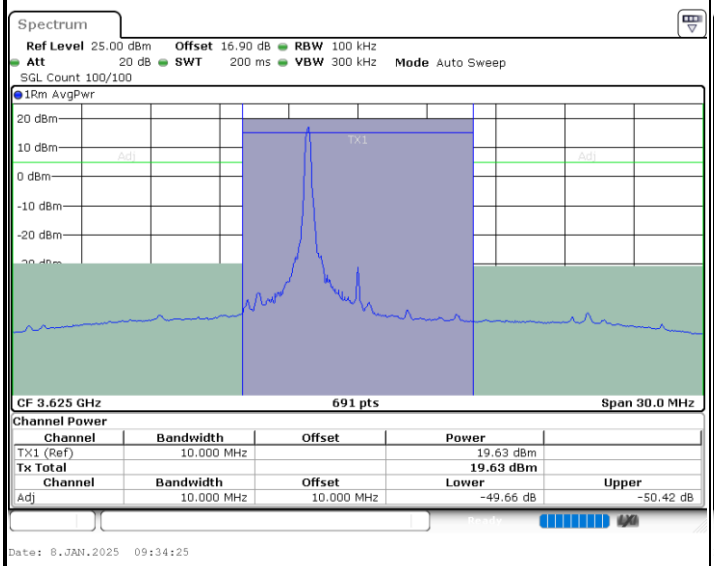
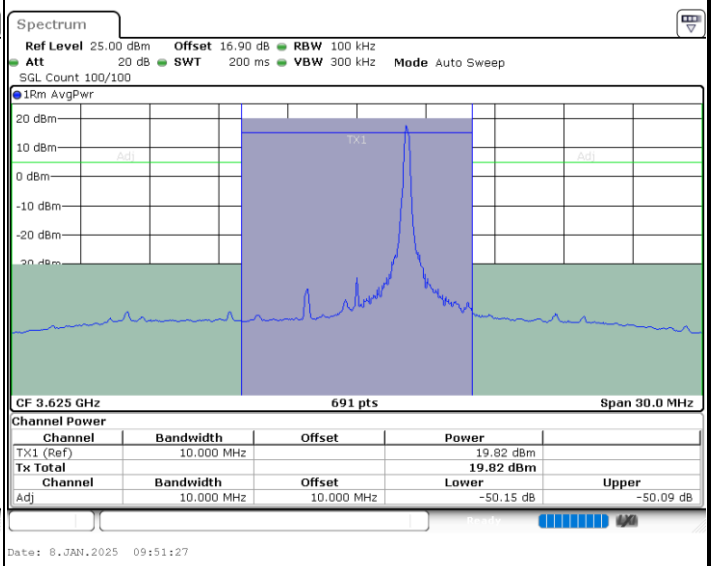
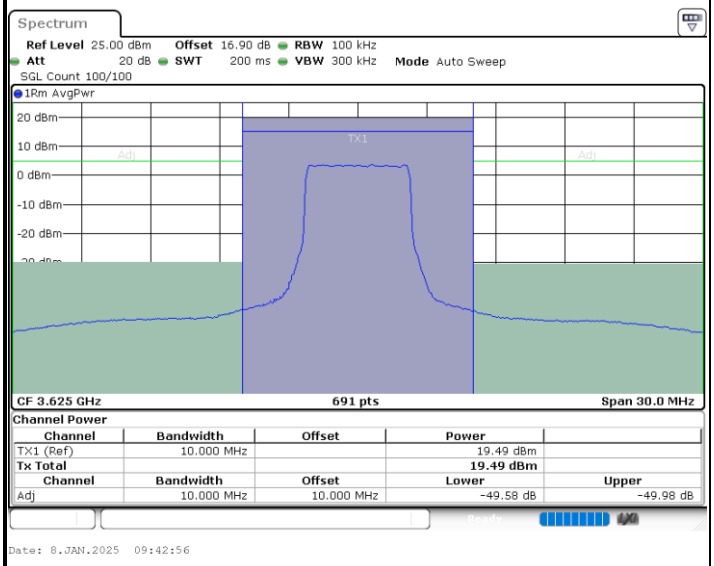
LTE Band 48 / 5MHz	
64QAM	
Highest Channel / 1RB0	Highest Channel / 1RBmax
	
Highest Channel / FullRB	N/A
	

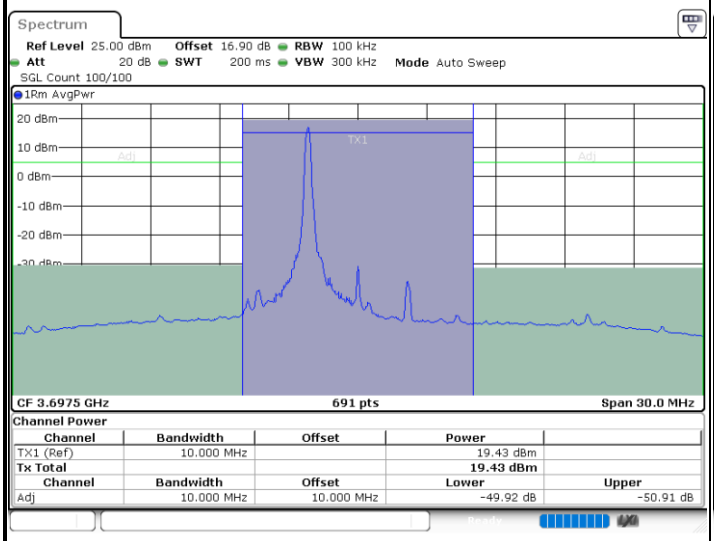
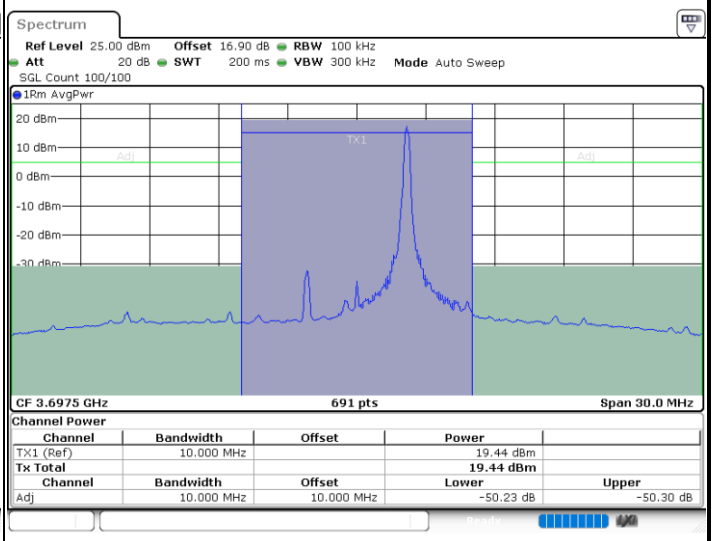
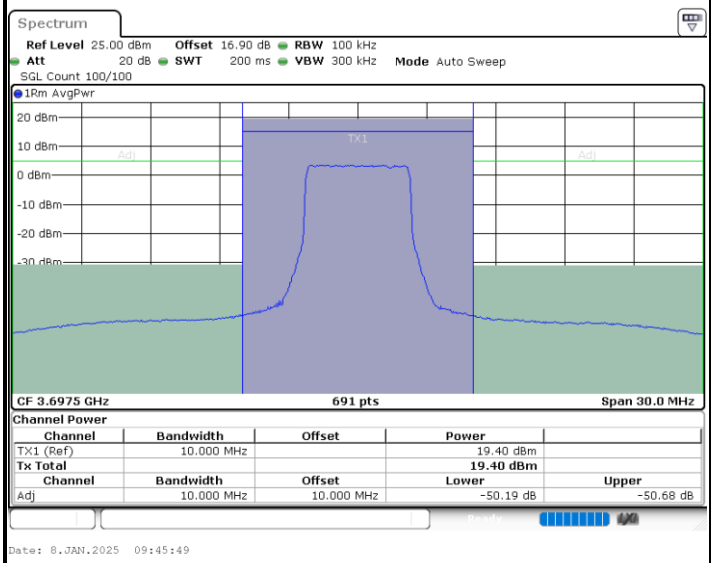
LTE Band 48 / 10MHz	
64QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

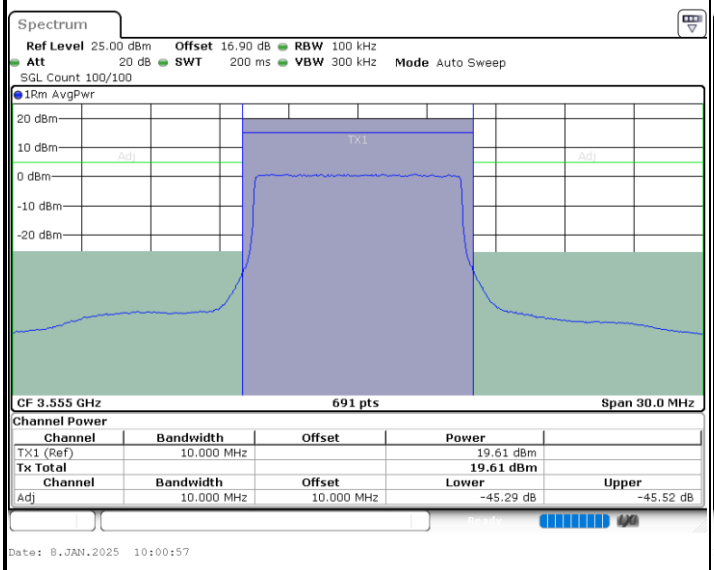
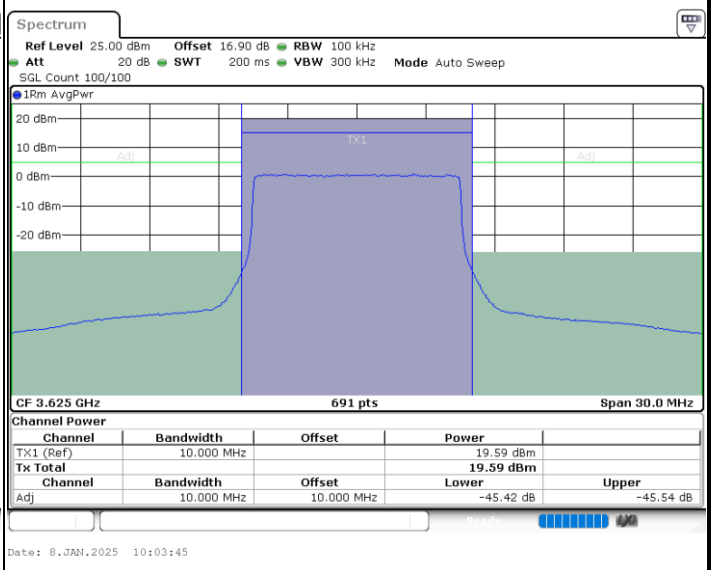
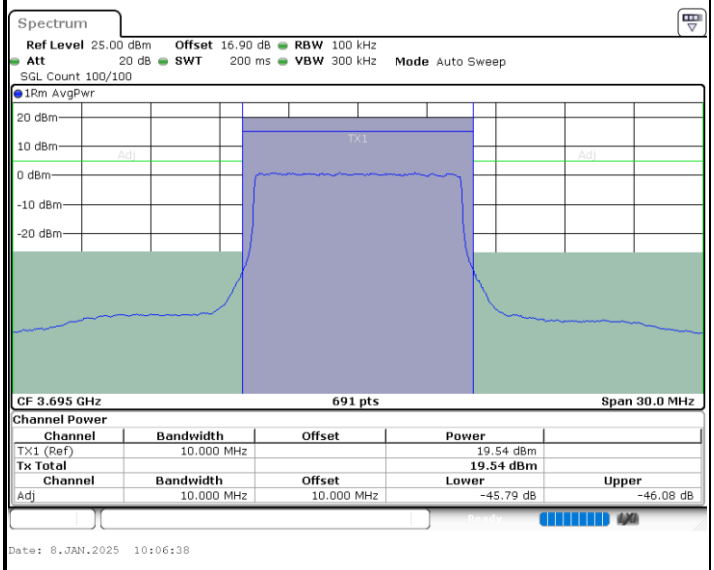
LTE Band 48 / 15MHz	
64QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

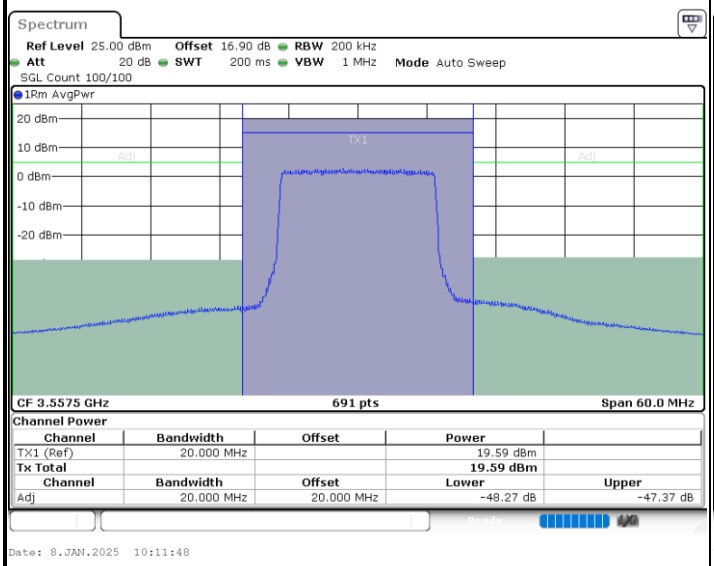
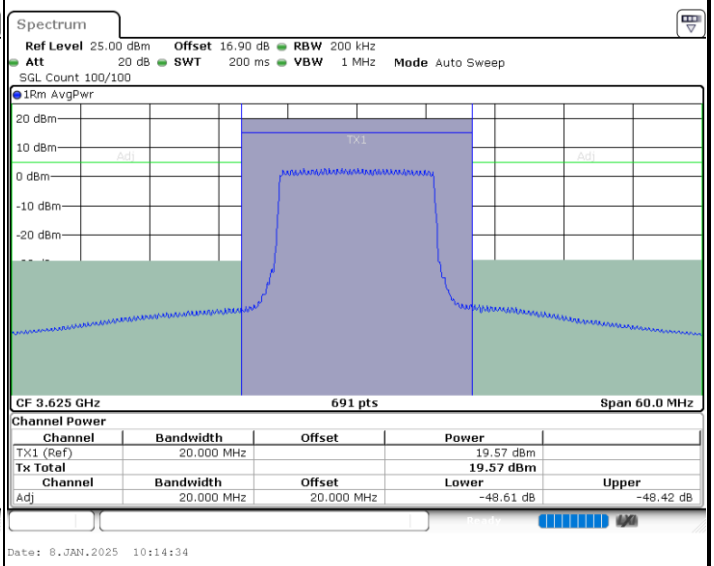
LTE Band 48 / 20MHz	
64QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

LTE Band 48 / 5MHz	
256QAM	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / FullRB	N/A
	

LTE Band 48 / 5MHz	
256QAM	
Middle Channel / 1RB0	Middle Channel / 1RBmax
	
Middle Channel / FullRB	N/A
	

LTE Band 48 / 5MHz	
256QAM	
Highest Channel / 1RB0	Highest Channel / 1RBmax
	
Highest Channel / FullRB	N/A
	

LTE Band 48 / 10MHz	
256QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A
	

LTE Band 48 / 15MHz	
256QAM	
Lowest Channel / FullRB	Middle Channel / FullRB
	
Highest Channel / FullRB	N/A