



FCC RADIO TEST REPORT

FCC ID : UZ7TCW01G
Equipment : Touch Computer
Brand Name : ZEBRA
Model Name : TCW01G
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Dec. 24, 2025 and testing was performed from Jan. 05, 2026 to Apr. 16, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG5N0611-01D	01	Initial issue of report	Apr. 22, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	ANSI C63.26	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Power Density	Pass	-
3.5	§2.1049	Occupied Bandwidth	Pass	-
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	§2.1053 §96.41	Radiated Spurious Emission	Pass	3.13 dB under the limit at 7215 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/manufacture 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: Wei Chen**Report Producer: Shannon Huang**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	ZEBRA
Model Name	TCW01G
FCC ID	UZ7TCW01G
EUT supports Radios application	GSM/WCDMA/LTE/5G NR/NFC/GNSS/RFID WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE
HW Version	EV1
SW Version	15-12-29.00-VG-U00-PRD-ERS-04
FW Version	FUSION_QA_7_1.3.0.002_V
MFD	15NOV25
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

<Sample Information>

Sample 1	Sample 2	Sample 3	Sample 4
Basic + SE4730 SKU 1_NA	Basic + SE55 SKU 3_NA	Premium + SE4730 SKU 5_NA	Premium + SE55 SKU 6_NA

Specification of Accessories				
AC Adapter 1	Brand Name	Zebra	Model Name	SAWA-65-20005A
Battery 1 (1x)	Brand Name	Zebra	Model Name	BT-000473
Battery 2 (1.5x)	Brand Name	Zebra	Model Name	BT-000473E
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC2X-USBC-01
USB TYPE C to TYPE C cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
PTT Headset with USB-C connector	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
PTT and VoIP headset with 3.5mm standard jack.	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-02
USB-C to 3.5mm adapter cable	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
HS2100 rugged wired headset	Brand Name	Zebra	Part Number	HS2100-BTN-LSB
HS2100 Headset Cable for connecting the HS2100 Headset via 3.5mm	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Rugged boot	Brand Name	Zebra	Part Number	SG-TC2L-BOOT-01
Handstrap	Brand Name	Zebra	Part Number	SG-TC2L-HSTRP1-01
Trigger Handle	Brand Name	Zebra	Part Number	CRG-TC2L-SNP1-01
Arm Mounts	Brand Name	Zebra	Part Number	SG-TC2L-ARMNT-01
Soft Holster	Brand Name	Zebra	Part Number	SG-TC2L-HLSTR1-01
HS3100 rugged Bluetooth headset	Brand Name	Zebra	Part Number	HS3100-OTH

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard				
Tx/Rx Frequency		3552.5 MHz ~ 3697.5 MHz		
Bandwidth		5 MHz / 10 MHz / 15 MHz / 20 MHz		
Antenna Type		<Ant. 8>: PIFA Antenna		
Antenna Gain		LTE B48: -1.13 dBi		
Type of Modulation		QPSK / 16QAM / 64QAM / 256QAM		
Support band and evaluated information				
Supported band		B48 、B48C		
Evaluated and Tested band		B48 、B48C		
TDD band Power Class				
	PC3	PC2		
B48	√			
B48C	√			

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



1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Site

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	03CH21-HY
Test Engineer	HaoEn Zhang	Jack Cheng, Ray Lung, and Ryan Chen
Temperature (°C)	22.1 ~ 23.2	18.0 ~ 26.0
Relative Humidity (%)	53.5 ~ 57.8	50.0 ~ 70.0

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

FCC Designation No.: TW3786

1.5 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

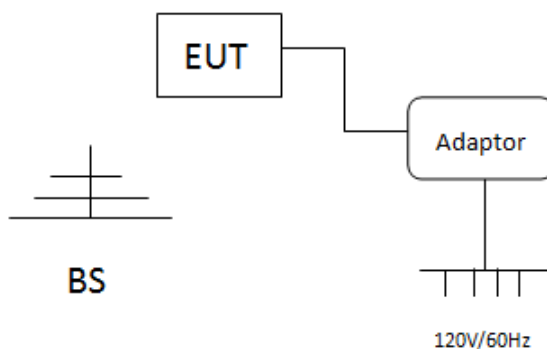
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

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	Full	M
Bandwidth	A, B	All	Full	M
ACLR, Mask	A	All	1RB Full	L, M, H
CSE	A	All	1RB	L, M, H
Frequency Stability	A	10 MHz	Full	M
RSE	A	20 MHz	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. All the radiated test cases were performed with Adapter 1 and USB Cable 1.
4. One representative bandwidth is selected to perform PAR and frequency stability.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.5 + 10 = 14.5 \text{ (dB)} \end{aligned}$$



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	3625	3690
15	Channel	55315	55990	56665
	Frequency	3557.5	3625	3692.5
10	Channel	55290	55990	56690
	Frequency	3555	3625	3695
5	Channel	55265	55990	56715
	Frequency	3552.5	3625	3697.5



LTE Band 48C 3550MHz ~ 3700MHz Channel and Frequency List_CA (Part96)					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690.0
20 + 15	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
15 + 20	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690.0
20 + 10	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
10 + 20	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20 + 5	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
5 + 20	PCC	Channel	55273	55896	56523
		Frequency	3553.3	3615.6	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690.0

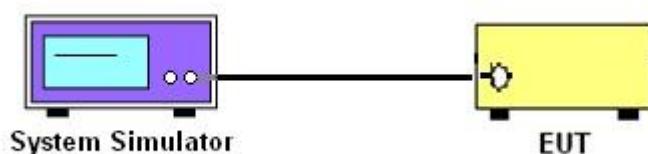
3 Conducted Test Items

3.1 Measuring Instruments

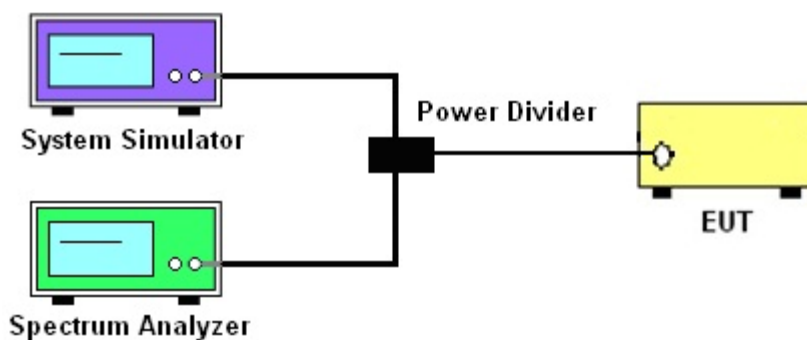
See list of measuring instruments of this test report.

3.1.1 Test Setup

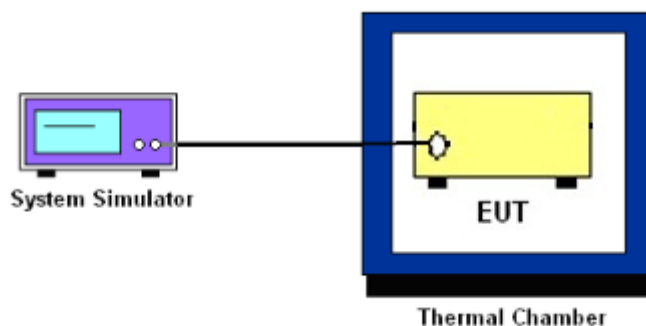
3.1.2 Conducted Output Power



3.1.3 EIRP and Power Density, 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 and Power Density

3.4.1 Description of the EIRP and Power Density 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,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

LC = 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
Category A CBSD	30	20
Category B CBSD	47	37

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 $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.



3.7 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 test reduction is applied to 1RB case for 10MHz Bandwidth to cover the all operation bandwidths. RBW 500kHz is applied to the 0-1MHz offset from the edge of the frequency block group for 1RB mode in order to represent the worst case condition.



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.

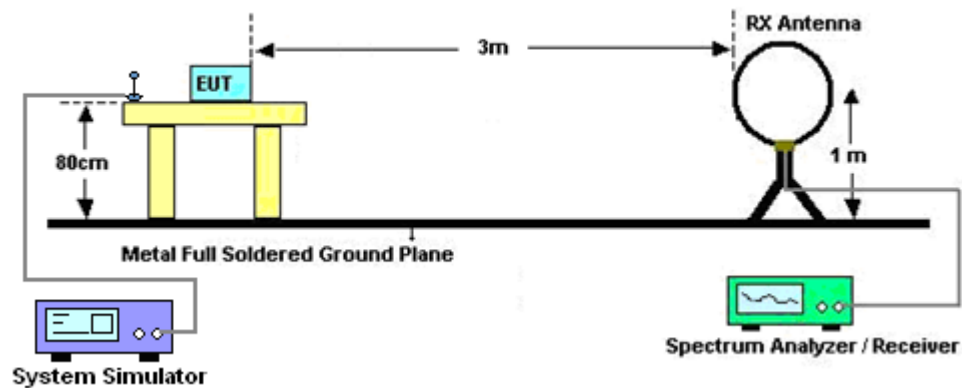
4 Radiated Test Items

4.1 Measuring Instruments

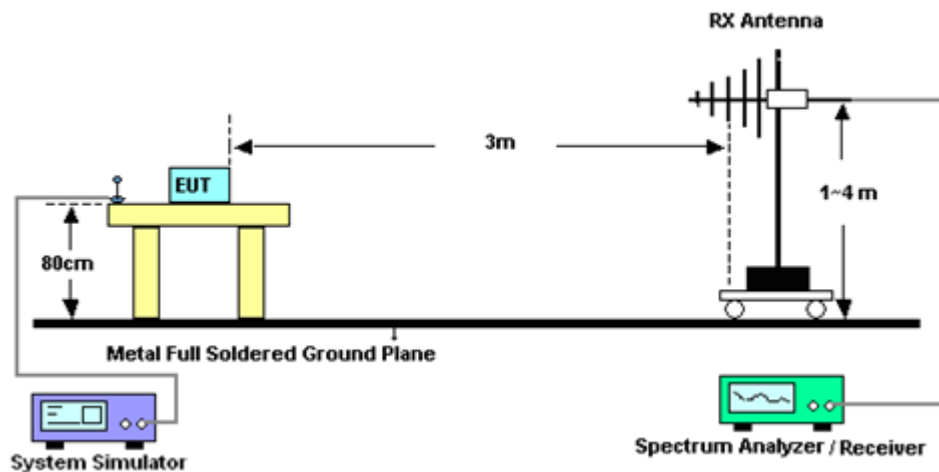
See list of measuring instruments of this test report.

4.2 Test Setup

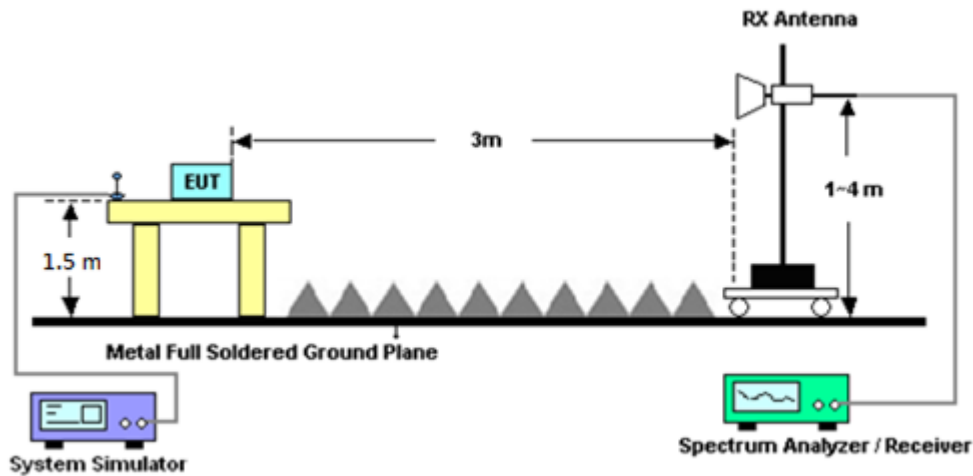
For radiated test below 30MHz



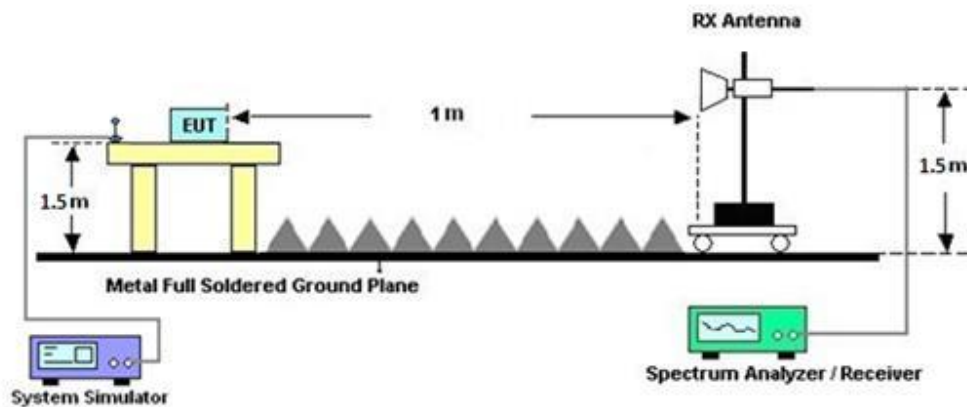
For radiated test from 30MHz to 1GHz



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 5.5.7 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)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field 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
LOOP Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Feb. 13, 2026~ Apr. 15, 2026	Dec. 10, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Feb. 13, 2026~ Apr. 15, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A1 8EN	1GHz~18GHz	Aug. 07, 2025	Feb. 13, 2026~ Apr. 15, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Feb. 13, 2026~ Apr. 15, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Feb. 13, 2026~ Apr. 15, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Feb. 13, 2026~ Apr. 15, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Feb. 13, 2026~ Apr. 15, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY621703 58	10Hz~44GHz	Sep. 09, 2025	Feb. 13, 2026~ Apr. 15, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Feb. 13, 2026~ Apr. 15, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,8 04612/2,80 3954/2	30MHz~40GHz	Aug. 11, 2025	Feb. 13, 2026~ Apr. 15, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM -KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	Feb. 13, 2026~ Apr. 15, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Feb. 13, 2026~ Apr. 15, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 13, 2026~ Apr. 15, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Feb. 13, 2026~ Apr. 15, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 13, 2026~ Apr. 15, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Feb. 13, 2026~ Apr. 15, 2026	N/A	Radiation (03CH21-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	626202534 1	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Jan. 05, 2026~ Apr. 16, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET86154 6	0V~64V ; 0A~6A	Jun. 03, 2025	Jan. 05, 2026~ Apr. 16, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18G Hz	Oct. 16, 2025	Jan. 05, 2026~ Apr. 16, 2026	Oct. 15, 2026	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Jan. 05, 2026~ Apr. 16, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May. 12, 2025	Jan. 05, 2026~ Apr. 16, 2026	May. 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Jan. 05, 2026~ Apr. 16, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Jan. 05, 2026~ Apr. 16, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECEPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 04,2026	Jan. 05, 2026~ Apr. 16, 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% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and EIRP)

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = -1.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.42	23.05	23.25	22.29	0.1694
20	1	49		23.36	22.95	23.14		
20	1	99		23.28	22.70	23.19		
20	50	0		22.56	22.05	22.47		
20	50	24		22.48	21.91	22.42		
20	50	50		22.53	21.97	22.39		
20	100	0		22.55	21.91	22.41		
20	1	0	16-QAM	23.35	23.01	23.14	22.23	0.1671
20	1	49		23.35	22.87	23.36		
20	1	99		23.33	22.74	23.27		
20	50	0		22.50	21.97	22.31		
20	50	24		22.47	21.91	22.45		
20	50	50		22.48	22.01	22.43		
20	100	0		22.50	21.95	22.38		
20	1	0	64-QAM	22.46	22.02	22.33	21.37	0.1371
20	1	49		22.50	22.01	22.44		
20	1	99		22.44	21.85	22.41		
20	50	0		21.43	20.92	21.29		
20	50	24		21.48	20.88	21.42		
20	50	50		21.46	20.97	21.44		
20	100	0		21.49	20.92	21.41		
20	1	0	256-QAM	19.42	18.88	19.14	18.36	0.0685
20	1	49		19.49	18.96	19.24		
20	1	99		19.46	18.87	19.25		
20	50	0		19.43	19.00	19.30		
20	50	24		19.44	18.96	19.47		
20	50	50		19.44	19.00	19.44		
20	100	0		19.46	18.97	19.42		
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 = -1.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.29	23.02	23.18	22.16	0.1644
15	1	37		23.29	22.82	23.02		
15	1	74		23.16	22.63	23.09		
15	36	0		22.45	21.98	22.46		
15	36	20		22.43	21.81	22.40		
15	36	39		22.39	21.88	22.33		
15	75	0		22.49	21.85	22.29		
15	1	0	16-QAM	23.30	22.87	23.02	22.18	0.1652
15	1	37		23.26	22.79	23.31		
15	1	74		23.21	22.67	23.13		
15	36	0		22.40	21.92	22.22		
15	36	20		22.38	21.86	22.30		
15	36	39		22.41	21.93	22.30		
15	75	0		22.35	21.91	22.26		
15	1	0	64-QAM	22.43	21.89	22.30	21.34	0.1361
15	1	37		22.47	21.93	22.39		
15	1	74		22.42	21.70	22.40		
15	36	0		21.36	20.78	21.26		
15	36	20		21.46	20.79	21.32		
15	36	39		21.43	20.91	21.32		
15	75	0		21.43	20.80	21.36		
15	1	0	256-QAM	19.33	18.85	19.05	18.32	0.0679
15	1	37		19.35	18.83	19.16		
15	1	74		19.35	18.80	19.21		
15	36	0		19.30	18.85	19.18		
15	36	20		19.35	18.95	19.45		
15	36	39		19.31	18.90	19.36		
15	75	0		19.43	18.87	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 = -1.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.34	22.98	23.15	22.21	0.1663
10	1	25		23.32	22.89	23.01		
10	1	49		23.24	22.66	23.10		
10	25	0		22.49	22.03	22.40		
10	25	12		22.43	21.82	22.38		
10	25	25		22.42	21.91	22.34		
10	50	0		22.41	21.80	22.29		
10	1	0	16-QAM	23.25	22.87	23.01	22.18	0.1652
10	1	25		23.31	22.84	23.24		
10	1	49		23.31	22.69	23.15		
10	25	0		22.36	21.83	22.24		
10	25	12		22.40	21.84	22.40		
10	25	25		22.38	21.89	22.31		
10	50	0		22.36	21.82	22.23		
10	1	0	64-QAM	22.43	21.90	22.28	21.33	0.1358
10	1	25		22.46	21.95	22.39		
10	1	49		22.29	21.79	22.40		
10	25	0		21.35	20.89	21.25		
10	25	12		21.40	20.85	21.36		
10	25	25		21.45	20.93	21.34		
10	50	0		21.46	20.89	21.36		
10	1	0	256-QAM	19.30	18.81	19.00	18.34	0.0682
10	1	25		19.47	18.83	19.10		
10	1	49		19.36	18.73	19.21		
10	25	0		19.37	18.87	19.20		
10	25	12		19.29	18.93	19.38		
10	25	25		19.42	18.92	19.37		
10	50	0		19.38	18.83	19.34		
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 = -1.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.40	22.93	23.15	22.27	0.1687
5	1	12		23.27	22.84	23.07		
5	1	24		23.25	22.68	23.10		
5	12	0		22.47	22.01	22.44		
5	12	7		22.44	21.84	22.41		
5	12	13		22.39	21.94	22.31		
5	25	0		22.43	21.81	22.33		
5	1	0	16-QAM	23.32	22.94	23.08	22.19	0.1656
5	1	12		23.21	22.74	23.23		
5	1	24		23.28	22.61	23.25		
5	12	0		22.38	21.89	22.18		
5	12	7		22.43	21.80	22.36		
5	12	13		22.37	21.99	22.36		
5	25	0		22.41	21.87	22.25		
5	1	0	64-QAM	22.35	21.95	22.25	21.33	0.1358
5	1	12		22.46	21.93	22.39		
5	1	24		22.43	21.84	22.36		
5	12	0		21.31	20.84	21.20		
5	12	7		21.46	20.74	21.41		
5	12	13		21.33	20.95	21.40		
5	25	0		21.41	20.89	21.36		
5	1	0	256-QAM	19.35	18.80	19.02	18.30	0.0676
5	1	12		19.43	18.87	19.16		
5	1	24		19.39	18.76	19.11		
5	12	0		19.34	18.91	19.29		
5	12	7		19.36	18.91	19.36		
5	12	13		19.35	18.98	19.42		
5	25	0		19.35	18.88	19.35		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = -1.13 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	14.83	14.80	14.67	19.28	0.0847
20+20	1	0	1	99		0.83	0.76	0.57		
20+20	1	99	1	0		20.41	20.39	14.46		
20+20	1	0	0	0		19.85	19.76	19.76		
20+20	100	0	100	0	16-QAM	14.86	14.80	14.72	19.87	0.0971
20+20	1	0	1	99		1.33	1.24	1.03		
20+20	1	99	1	0		21.00	20.85	14.99		
20+20	1	0	0	0		20.34	20.41	20.30		
20+20	100	0	100	0	64-QAM	14.84	14.83	14.72	19.8	0.0955
20+20	1	0	1	99		1.30	1.27	1.07		
20+20	1	99	1	0		20.93	20.89	14.94		
20+20	100	0	100	0	256-QAM	14.77	14.73	14.70	18.6	0.0724
20+20	1	0	1	99		1.13	0.95	0.86		
20+20	1	99	1	0		19.73	19.70	14.89		
20+15	100	0	75	0	QPSK	14.85	14.78	14.66	19.29	0.0849
20+15	1	0	1	74		0.88	0.77	0.59		
20+15	1	99	1	0		20.42	20.38	14.43		
20+15	1	0	0	0		19.83	19.82	19.73		
20+15	100	0	75	0	16-QAM	14.86	14.84	14.67	19.80	0.0955
20+15	1	0	1	74		1.33	1.22	1.06		
20+15	1	99	1	0		20.89	20.93	14.95		
20+15	1	0	0	0		20.32	20.37	20.31		
20+15	100	0	75	0	64-QAM	14.89	14.80	14.68	19.83	0.0962
20+15	1	0	1	74		1.29	1.25	0.99		
20+15	1	99	1	0		20.96	20.94	14.97		
20+15	100	0	75	0	256-QAM	14.76	14.75	14.69	18.64	0.0731
20+15	1	0	1	74		1.15	1.06	0.81		
20+15	1	99	1	0		19.77	19.73	14.79		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = -1.13 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+20	75	0	100	0	QPSK	14.81	14.82	14.66	19.33	0.0857
15+20	1	0	1	99		0.83	0.77	0.57		
15+20	1	74	1	0		20.46	20.46	14.48		
15+20	1	0	0	0		19.78	19.81	19.22		
15+20	75	0	100	0	16-QAM	14.88	14.89	14.70	19.88	0.0973
15+20	1	0	1	99		1.36	1.24	1.02		
15+20	1	74	1	0		20.94	21.01	14.93		
15+20	1	0	0	0		20.33	20.44	20.40		
15+20	75	0	100	0	64-QAM	14.88	14.84	14.73	19.78	0.0951
15+20	1	0	1	99		1.28	1.20	1.08		
15+20	1	74	1	0		20.89	20.91	15.02		
15+20	75	0	100	0	256-QAM	14.77	14.76	14.74	18.63	0.0729
15+20	1	0	1	99		1.05	1.03	0.82		
15+20	1	74	1	0		19.76	19.75	14.84		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = -1.13 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	14.81	14.79	14.65	19.31	0.0853
20+10	1	0	1	49		0.91	0.80	0.60		
20+10	1	99	1	0		20.44	20.38	14.45		
20+10	1	0	0	0		19.83	19.81	19.80		
20+10	100	0	50	0	16-QAM	14.89	14.80	14.67	19.86	0.0968
20+10	1	0	1	49		1.39	1.20	1.04		
20+10	1	99	1	0		20.99	20.98	14.96		
20+10	1	0	0	0		20.40	20.42	20.41		
20+10	100	0	50	0	64-QAM	14.85	14.84	14.69	19.82	0.0959
20+10	1	0	1	49		1.29	1.24	1.06		
20+10	1	99	1	0		20.92	20.95	14.94		
20+10	100	0	50	0	256-QAM	14.78	14.75	14.73	18.62	0.0728
20+10	1	0	1	49		1.23	1.08	0.84		
20+10	1	99	1	0		19.75	19.61	14.80		
10+20	50	0	100	0	QPSK	14.82	14.85	14.69	19.38	0.0867
10+20	1	0	1	99		0.88	0.84	0.63		
10+20	1	49	1	0		20.51	20.50	14.53		
10+20	1	0	0	0		19.84	19.87	19.81		
10+20	50	0	100	0	16-QAM	14.85	14.89	14.72	19.90	0.0977
10+20	1	0	1	99		1.39	1.28	1.09		
10+20	1	49	1	0		21.03	21.03	15.04		
10+20	1	0	0	0		19.89	20.47	20.42		
10+20	50	0	100	0	64-QAM	14.88	14.86	14.70	19.96	0.0991
10+20	1	0	1	99		1.30	1.29	1.04		
10+20	1	49	1	0		21.09	21.00	15.00		
10+20	50	0	100	0	256-QAM	14.72	14.77	14.70	18.7	0.0741
10+20	1	0	1	99		1.16	1.10	0.84		
10+20	1	49	1	0		19.83	19.77	14.83		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = -1.13 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+5	100	0	25	0	QPSK	14.88	14.76	14.64	19.38	0.0867
20+5	1	0	1	24		0.89	0.84	0.61		
20+5	1	99	1	0		20.51	20.40	14.46		
20+5	1	0	0	0		19.79	19.82	19.74		
20+5	100	0	25	0	16-QAM	14.89	14.81	14.67	19.92	0.0982
20+5	1	0	1	24		1.43	1.31	1.02		
20+5	1	99	1	0		21.05	20.98	15.01		
20+5	1	0	0	0		19.89	20.36	20.37		
20+5	100	0	25	0	64-QAM	14.88	14.83	14.68	19.87	0.0971
20+5	1	0	1	24		1.38	1.29	1.09		
20+5	1	99	1	0		21.00	20.94	14.99		
20+5	100	0	25	0	256-QAM	14.74	14.71	14.70	18.7	0.0741
20+5	1	0	1	24		1.15	1.11	0.83		
20+5	1	99	1	0		19.83	19.70	14.84		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

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

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = -1.13 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	14.90	14.83	14.68	19.44	0.0879
5+20	1	0	1	99		0.79	0.79	0.56		
5+20	1	24	1	0		20.51	20.57	14.58		
5+20	1	0	0	0		19.72	19.85	19.77		
5+20	25	0	100	0	16-QAM	14.92	14.88	14.73	19.99	0.0998
5+20	1	0	1	99		1.34	1.25	1.00		
5+20	1	24	1	0		21.08	21.12	15.00		
5+20	1	0	0	0		20.37	20.44	20.38		
5+20	25	0	100	0	64-QAM	14.92	14.93	14.74	19.97	0.0993
5+20	1	0	1	99		1.30	1.33	1.07		
5+20	1	24	1	0		21.10	21.09	14.99		
5+20	25	0	100	0	256-QAM	14.75	14.78	14.73	18.76	0.0752
5+20	1	0	1	99		1.13	1.04	0.83		
5+20	1	24	1	0		19.83	19.89	14.93		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

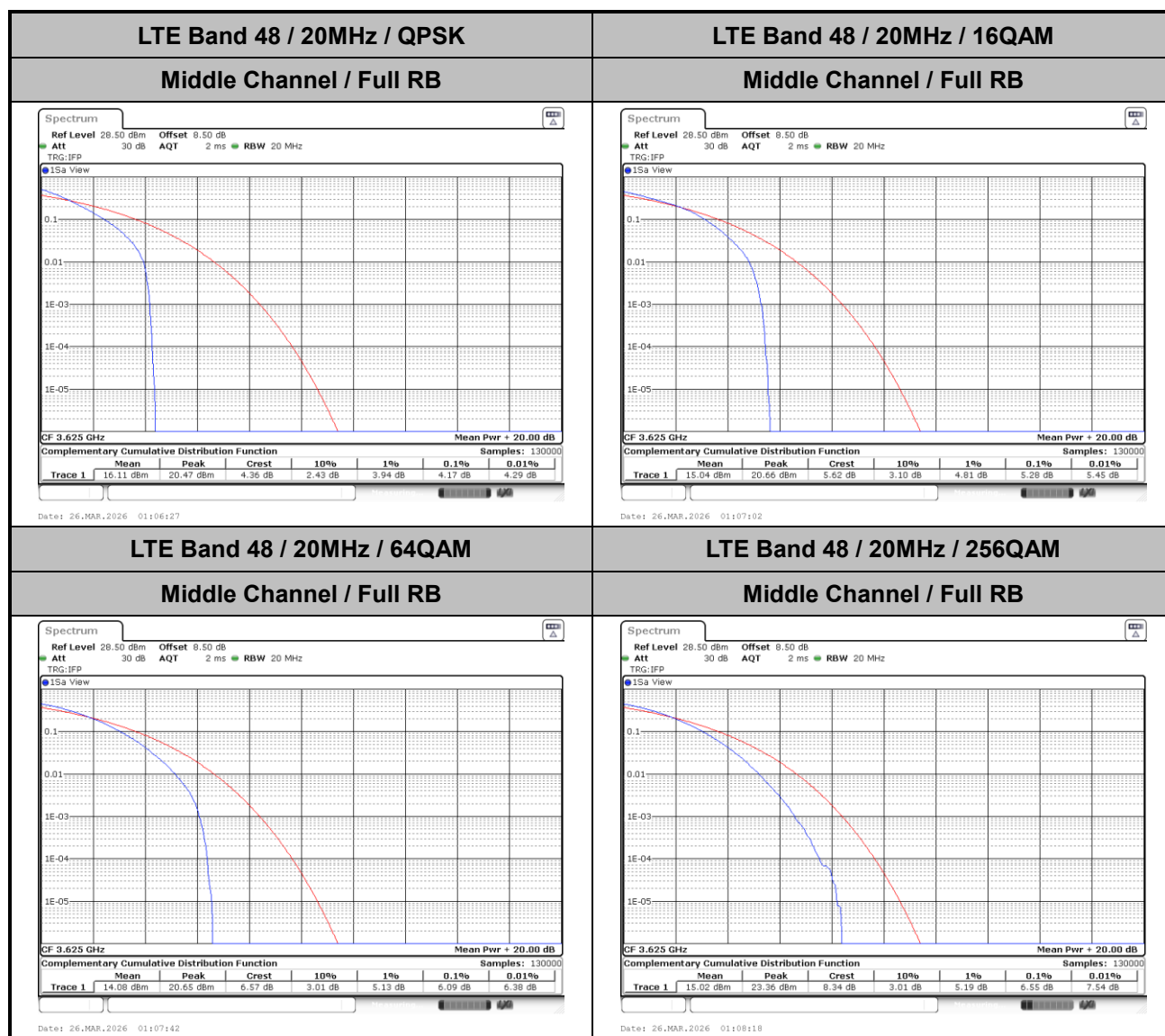
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



LTE Band 48

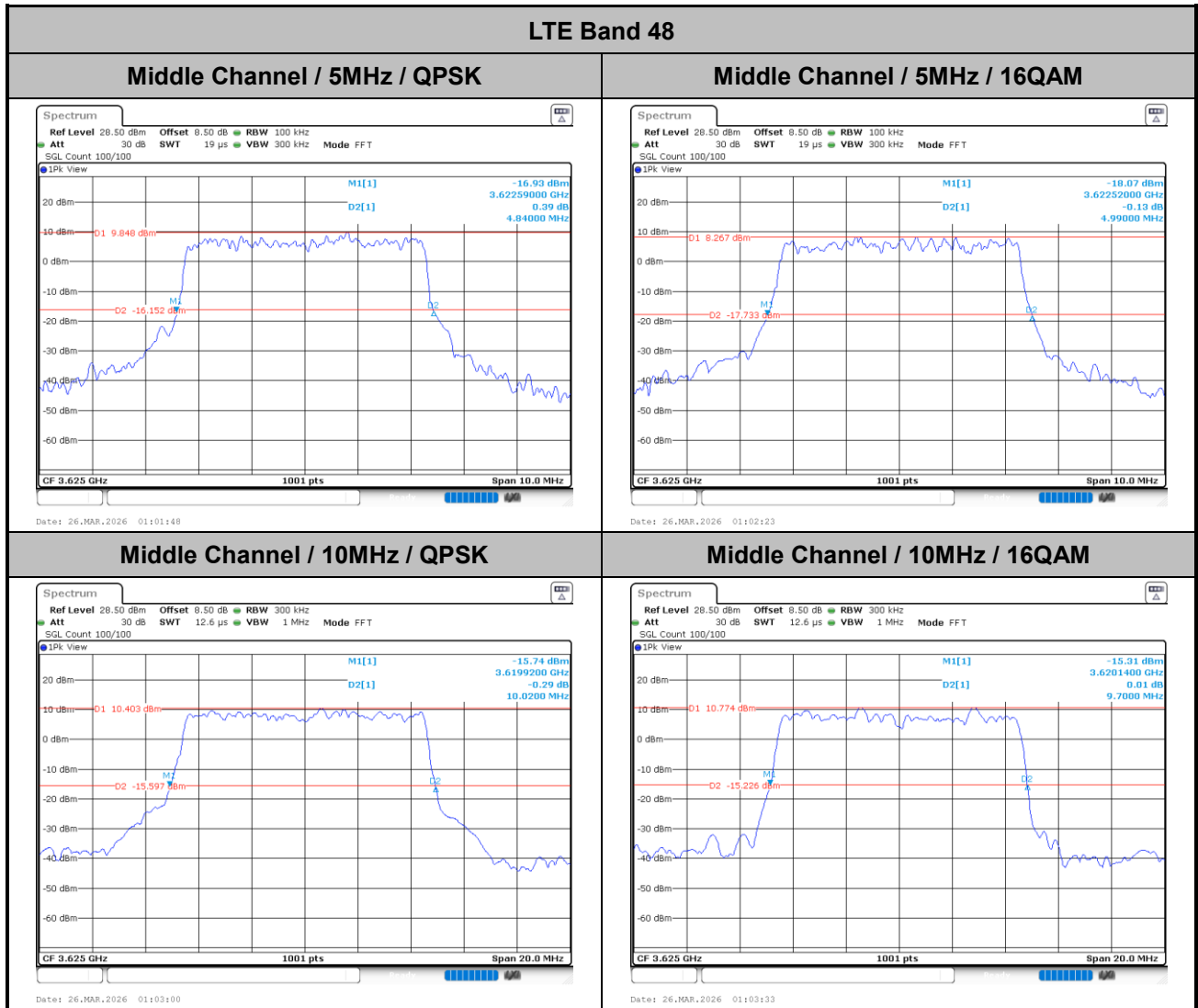
Peak-to-Average Ratio

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	4.17	5.28	6.09	6.55	PASS



**26dB Bandwidth**

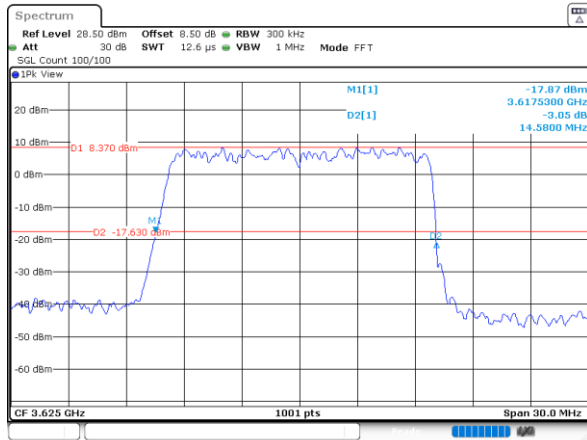
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.84	4.99	10.02	9.70	14.58	14.43	18.80	18.72



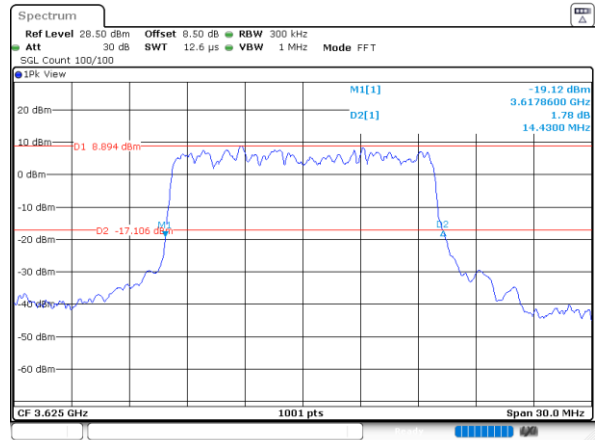


LTE Band 48

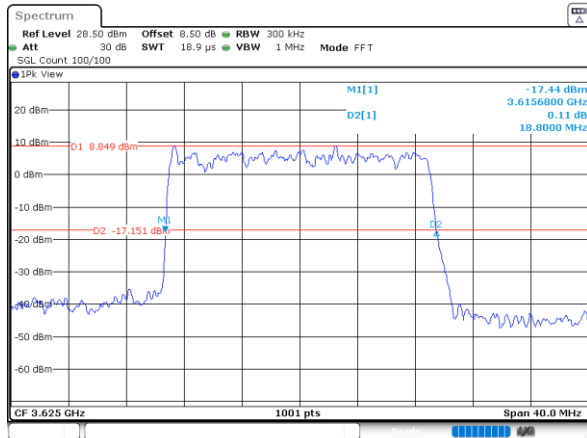
Middle Channel / 15MHz / QPSK



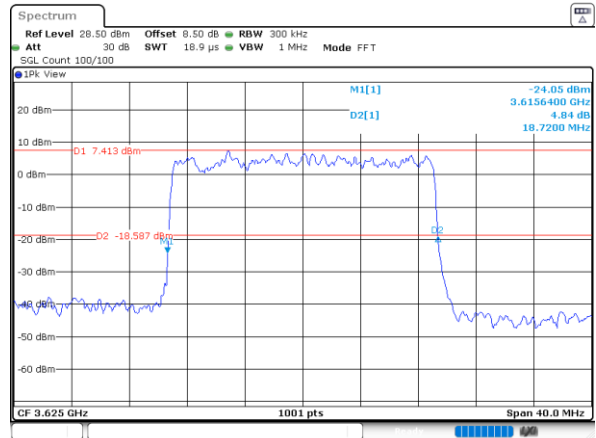
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



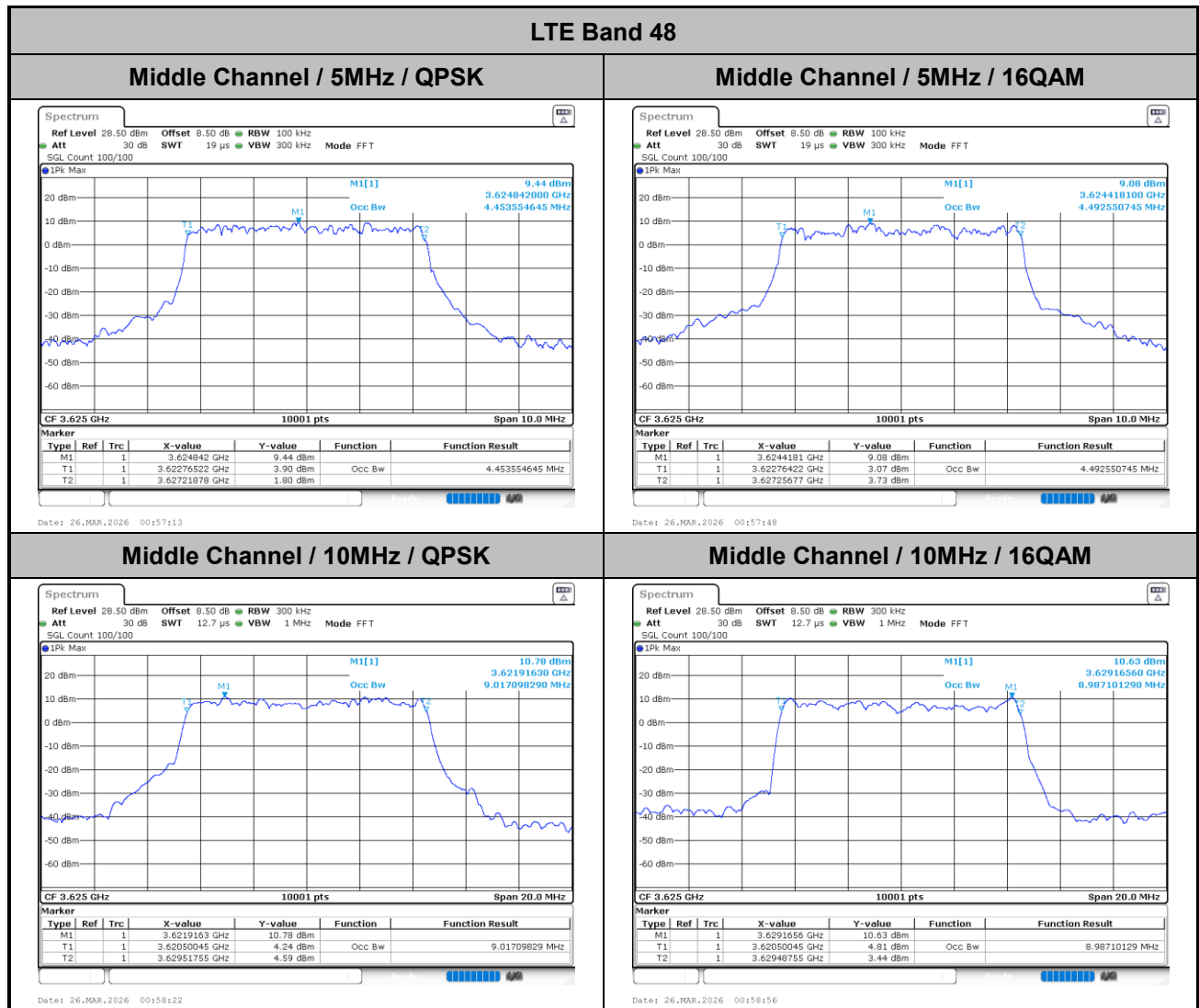
Middle Channel / 20MHz / 16QAM





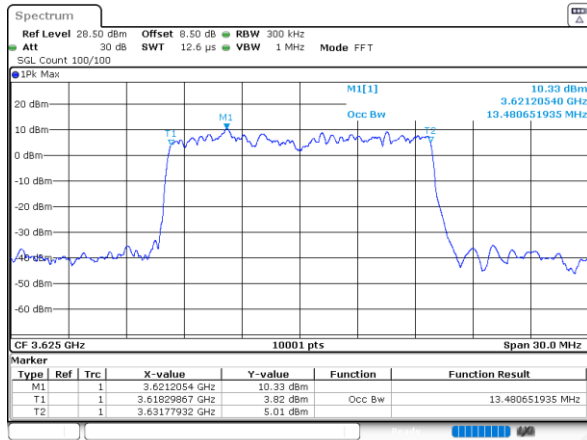
Occupied Bandwidth

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	-	-	-	-	4.45	4.49	9.01	8.98	13.48	13.53	17.87	17.89

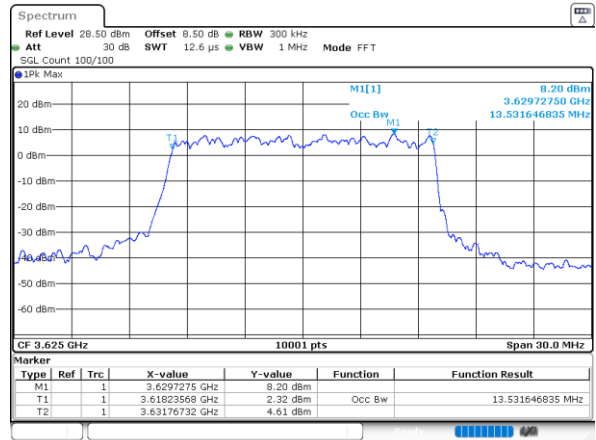


LTE Band 48

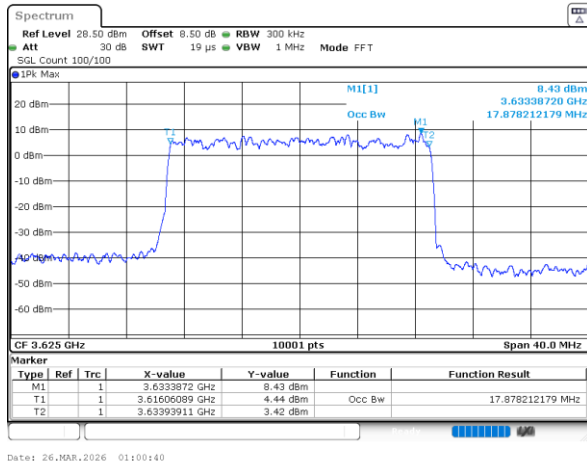
Middle Channel / 15MHz / QPSK



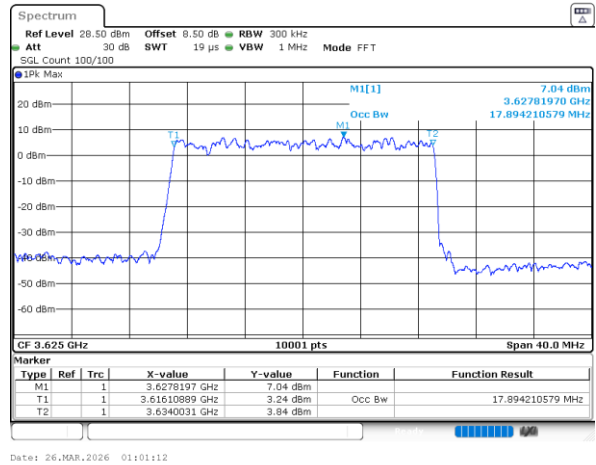
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



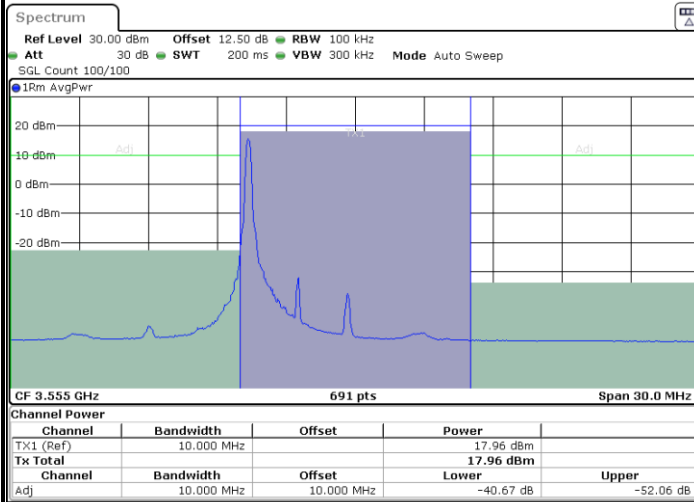


ACLR

LTE Band 48 / 5MHz

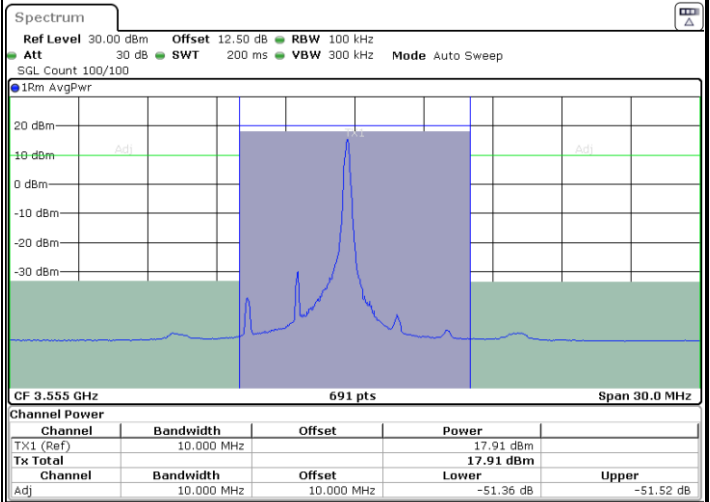
QPSK

Lowest Channel / 1RB0



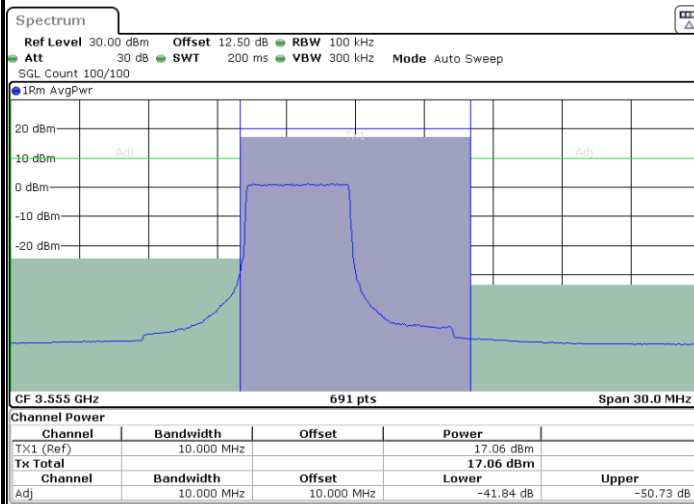
Date: 26.MAR.2026 01:09:09

Lowest Channel / 1RBmax



Date: 26.MAR.2026 01:14:13

Lowest Channel / FullIRB



Date: 26.MAR.2026 01:11:42

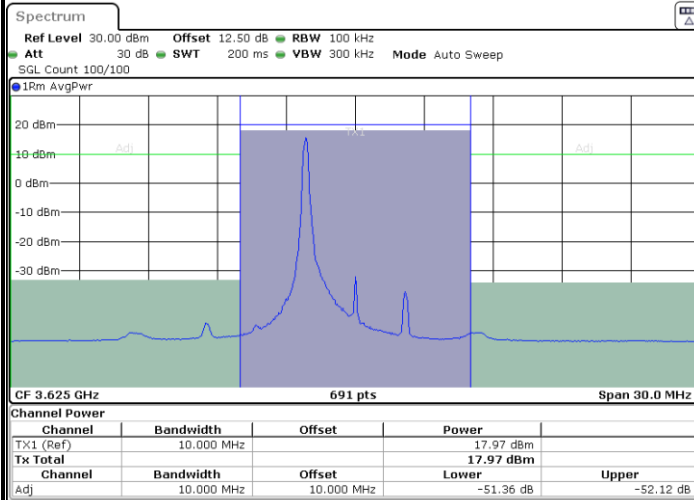
N/A



LTE Band 48 / 5MHz

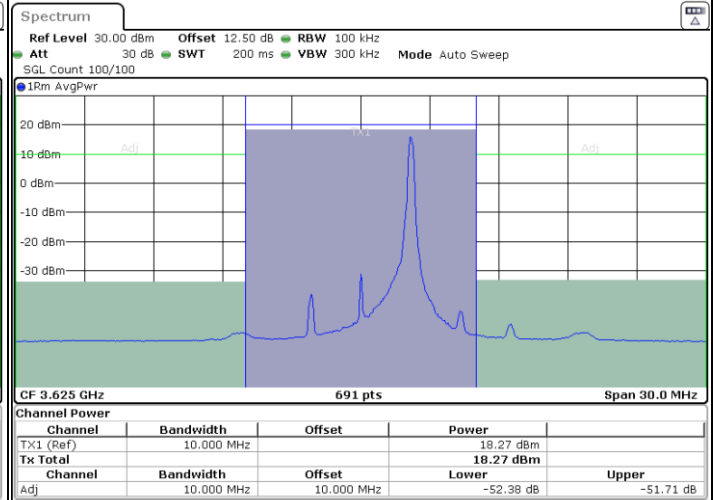
QPSK

Middle Channel / 1RB0



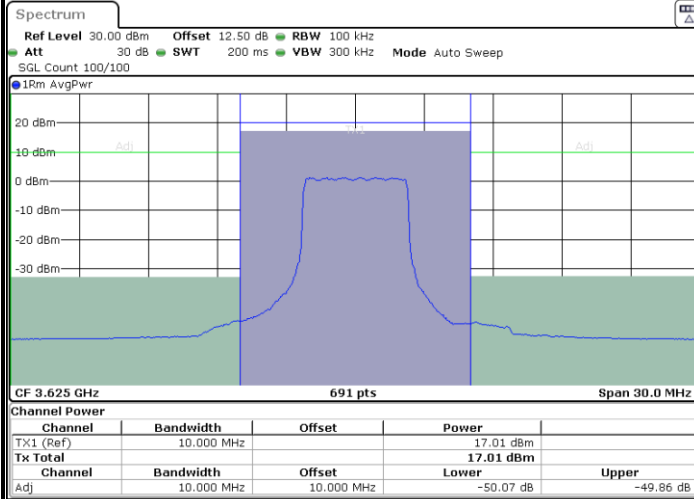
Date: 26.MAR.2026 01:10:00

Middle Channel / 1RBmax



Date: 26.MAR.2026 01:15:04

Middle Channel / FullRB



Date: 26.MAR.2026 01:12:32

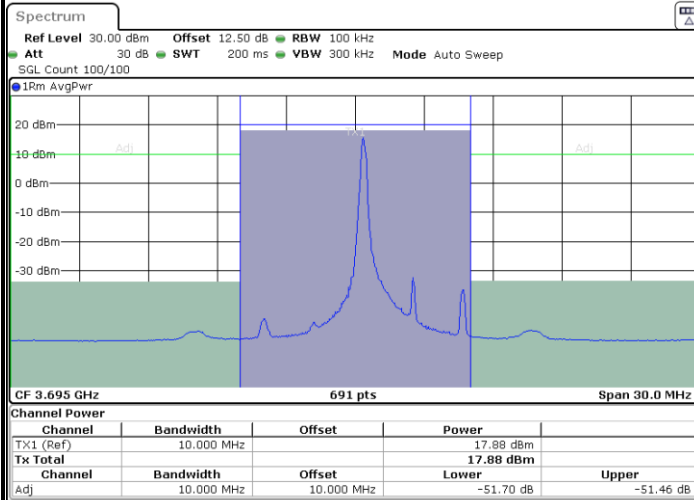
N/A



LTE Band 48 / 5MHz

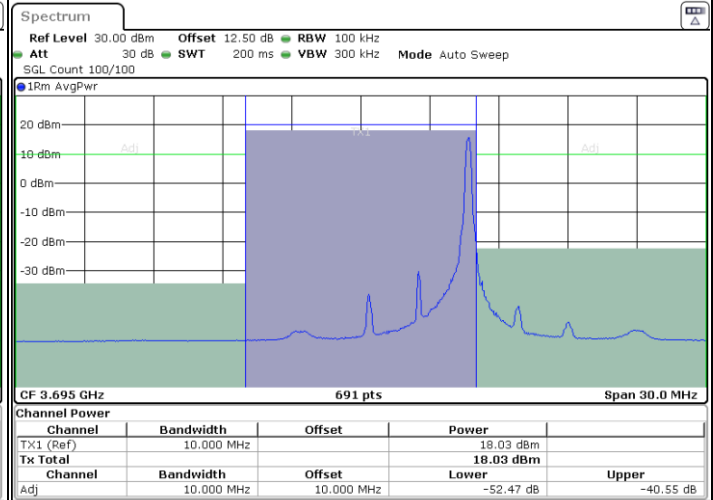
QPSK

Highest Channel / 1RB0



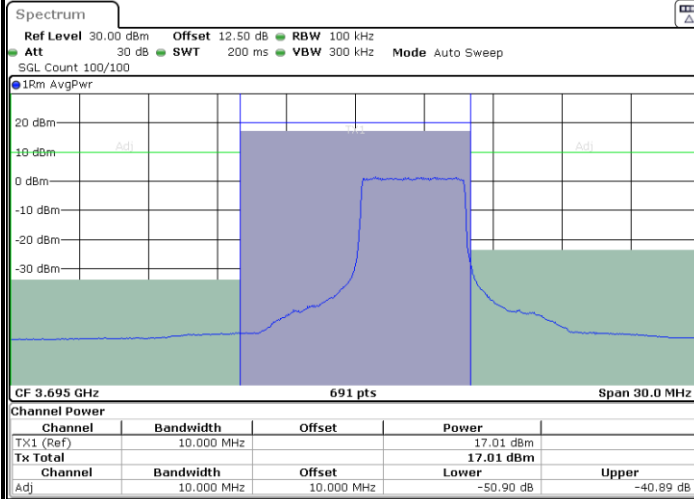
Date: 26.MAR.2026 01:10:52

Highest Channel / 1RBmax



Date: 26.MAR.2026 01:15:55

Highest Channel / FullRB



Date: 26.MAR.2026 01:13:23

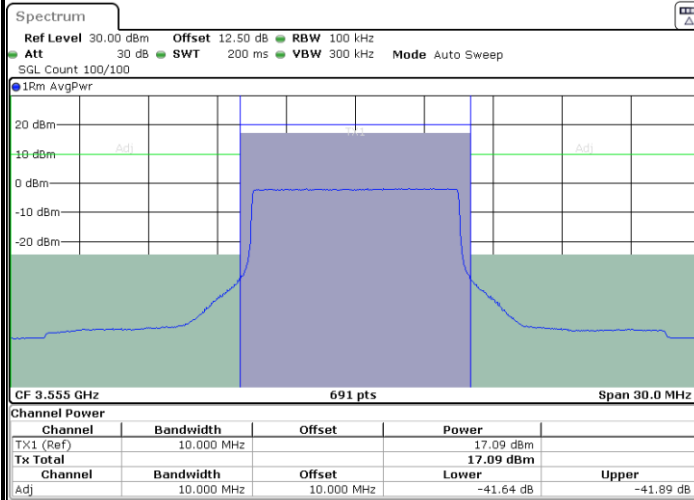
N/A



LTE Band 48 / 10MHz

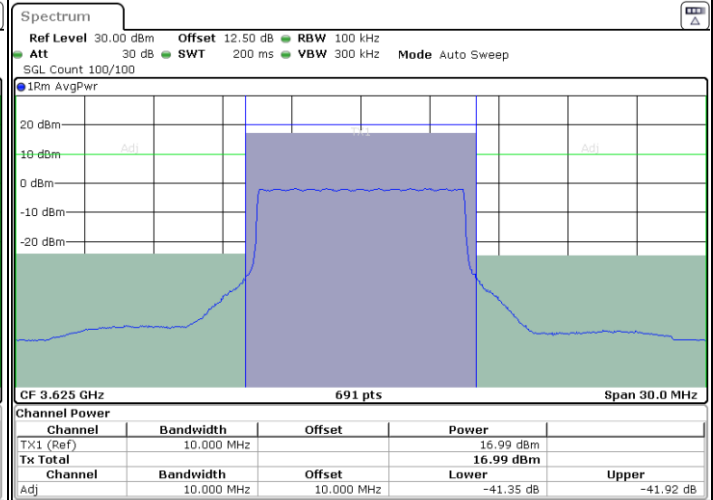
QPSK

Lowest Channel / FullIRB



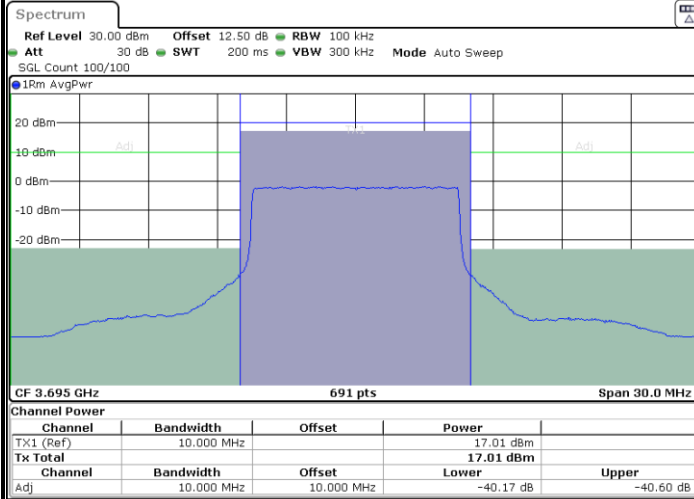
Date: 26.MAR.2026 01:16:45

Middle Channel / FullIRB



Date: 26.MAR.2026 01:17:34

Highest Channel / FullIRB



Date: 26.MAR.2026 01:18:25

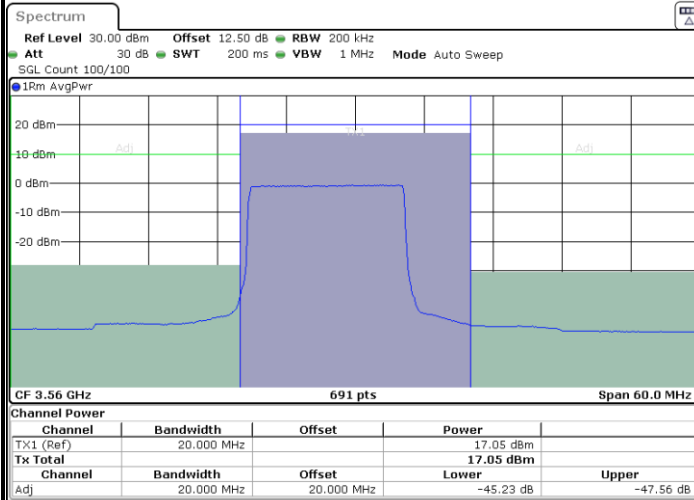
N/A



LTE Band 48 / 15MHz

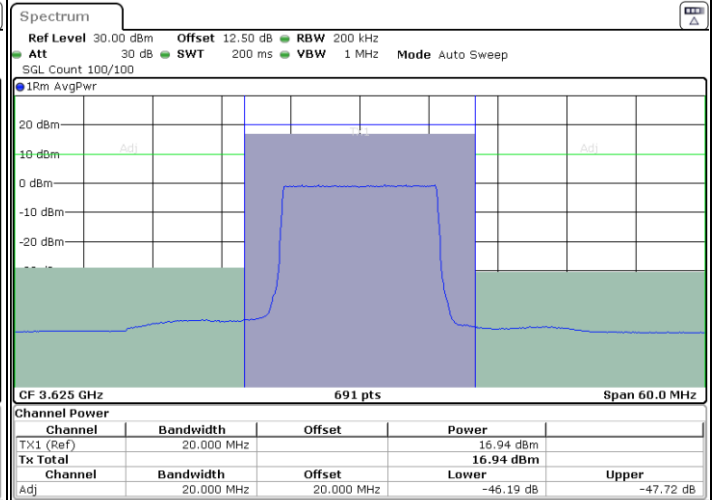
QPSK

Lowest Channel / FullIRB



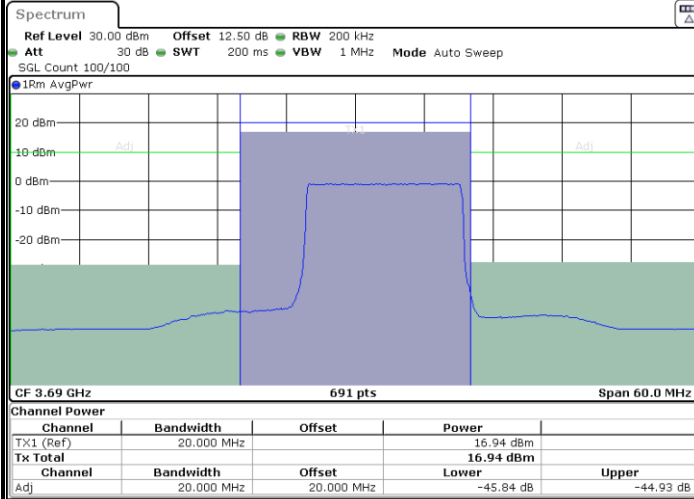
Date: 26.MAR.2026 01:19:15

Middle Channel / FullIRB



Date: 26.MAR.2026 01:20:05

Highest Channel / FullIRB



Date: 26.MAR.2026 01:20:56

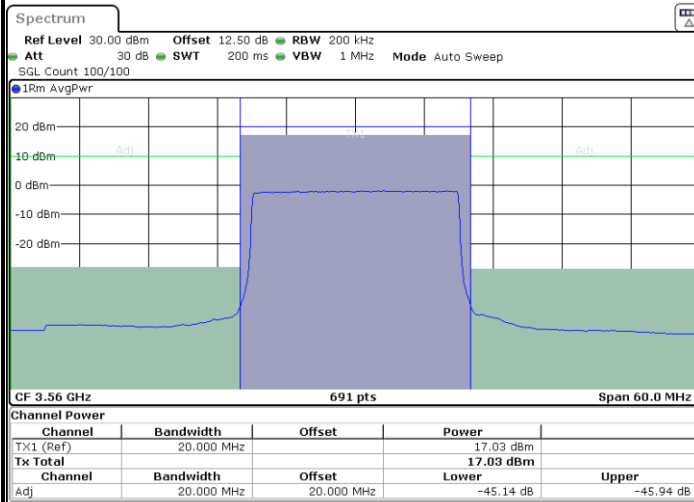
N/A



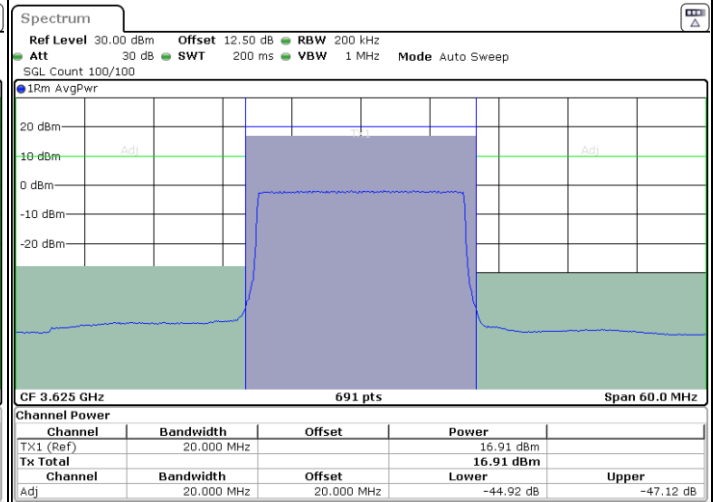
LTE Band 48 / 20MHz

QPSK

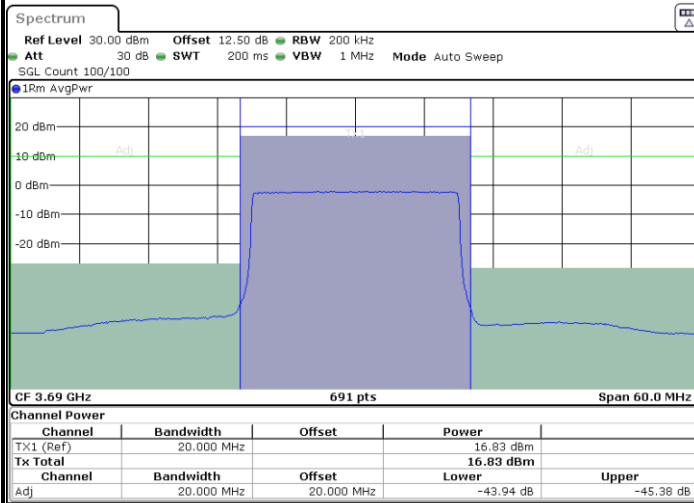
Lowest Channel / FullIRB



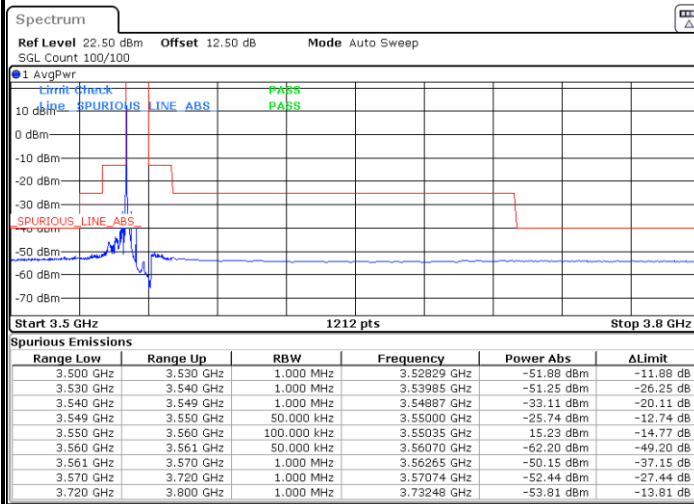
Middle Channel / FullIRB



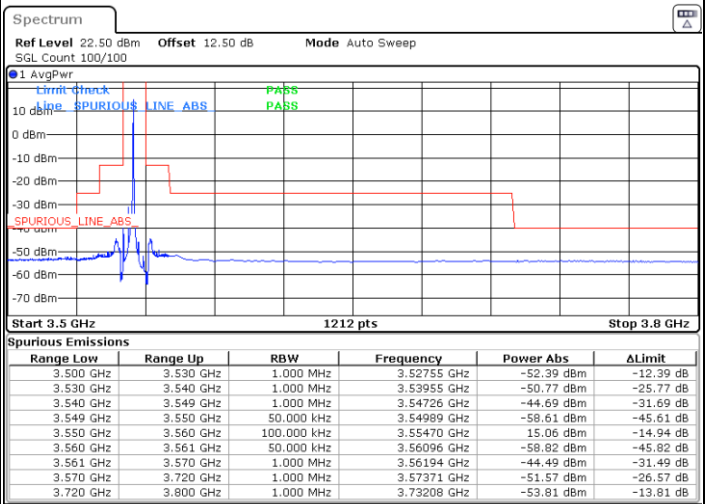
Highest Channel / FullIRB



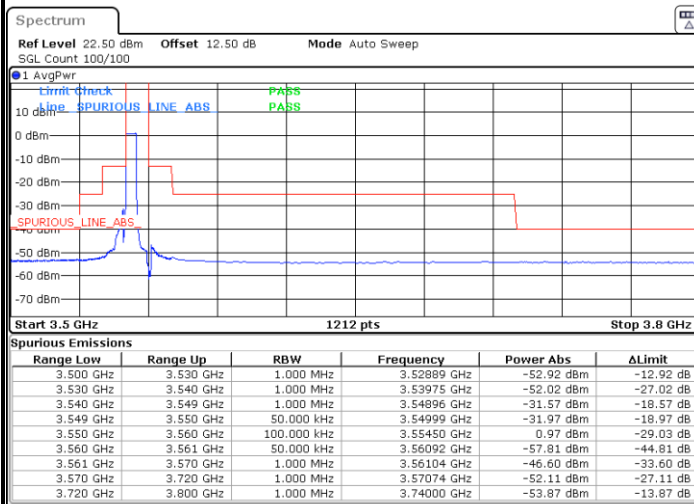
N/A

**Conducted Band Edge****LTE Band 48 / 5MHz****QPSK****Lowest Channel / 1RB0**

Date: 26.MAR.2026 01:24:40

Lowest Channel / 1RBmax

Date: 26.MAR.2026 01:32:04

Lowest Channel / FullIRB

Date: 26.MAR.2026 01:28:21

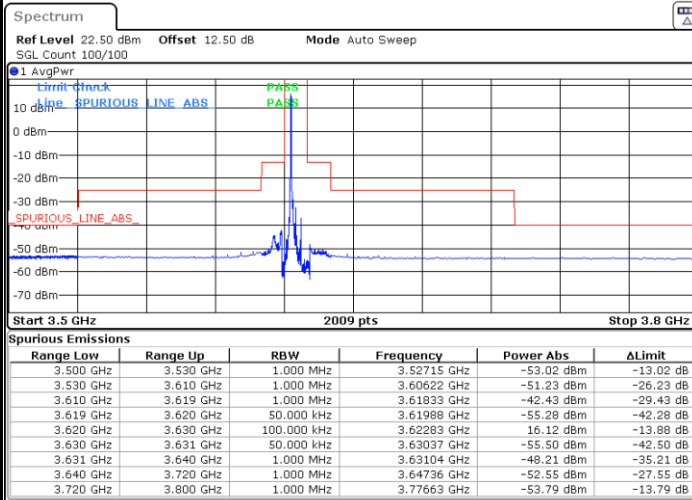
N/A



LTE Band 48 / 5MHz

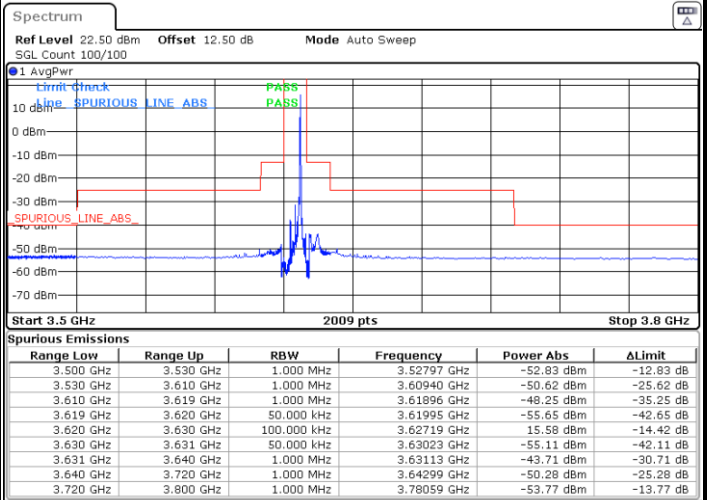
QPSK

Middle Channel / 1RB0



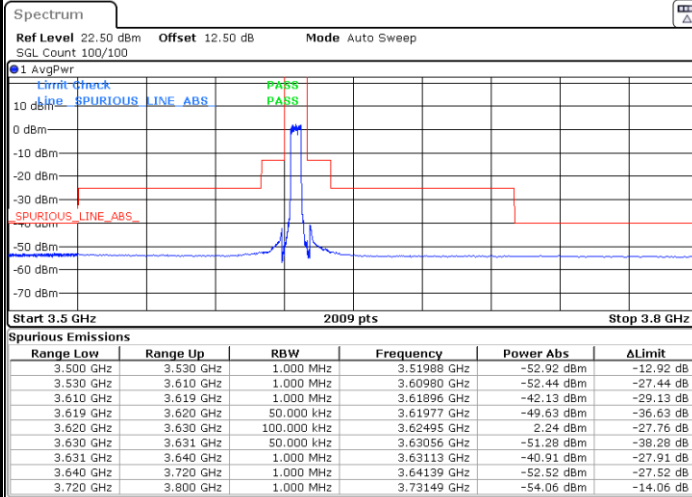
Date: 26.MAR.2026 01:25:52

Middle Channel / 1RBmax



Date: 26.MAR.2026 01:33:20

Middle Channel / FullRB



Date: 26.MAR.2026 01:29:34

N/A

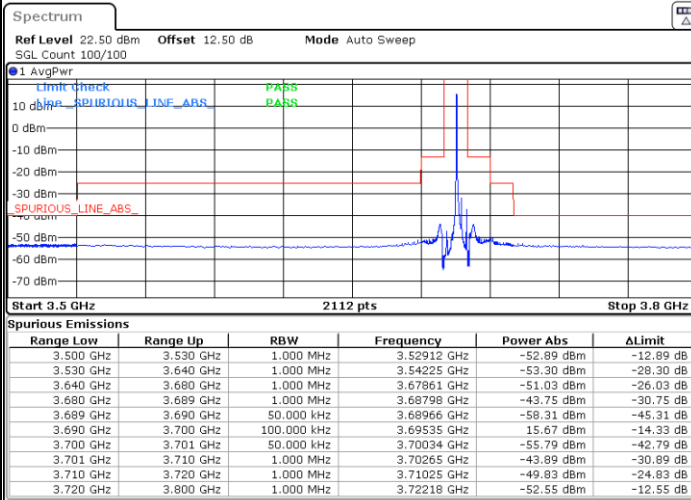


LTE Band 48 / 5MHz

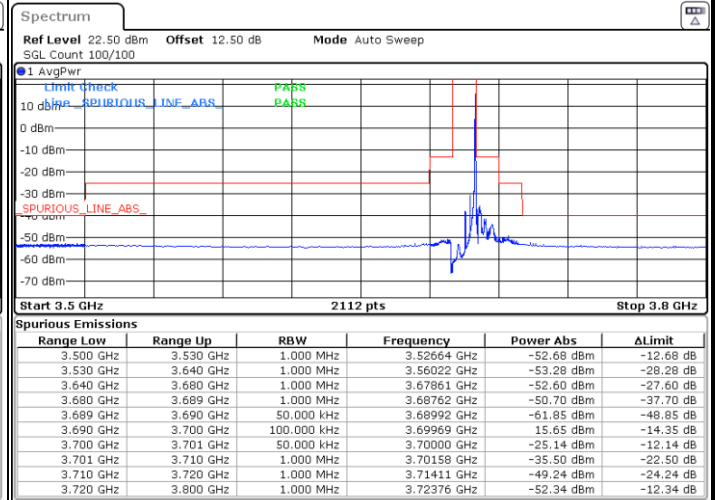
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



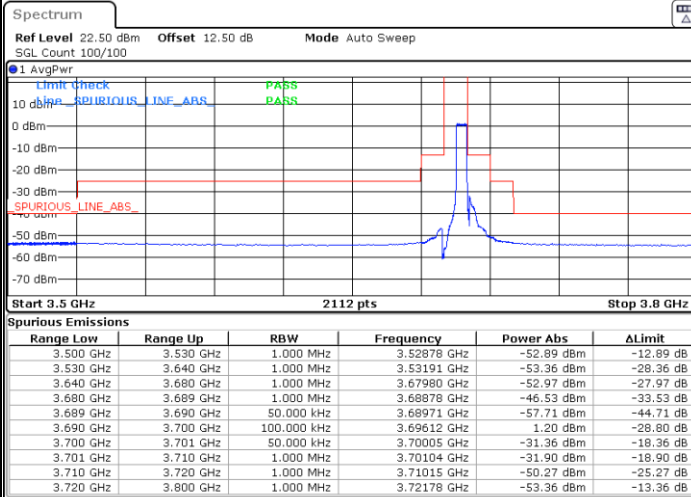
Date: 26.MAR.2026 01:27:06



Date: 26.MAR.2026 01:34:35

Highest Channel / FullIRB

N/A



Date: 26.MAR.2026 01:30:49

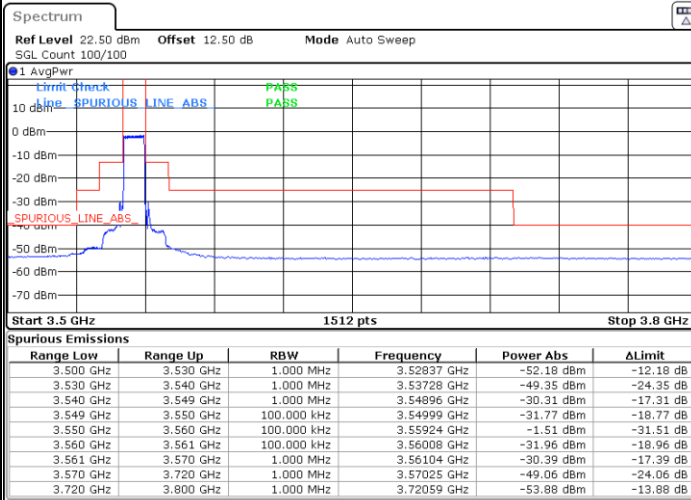


LTE Band 48 / 10MHz

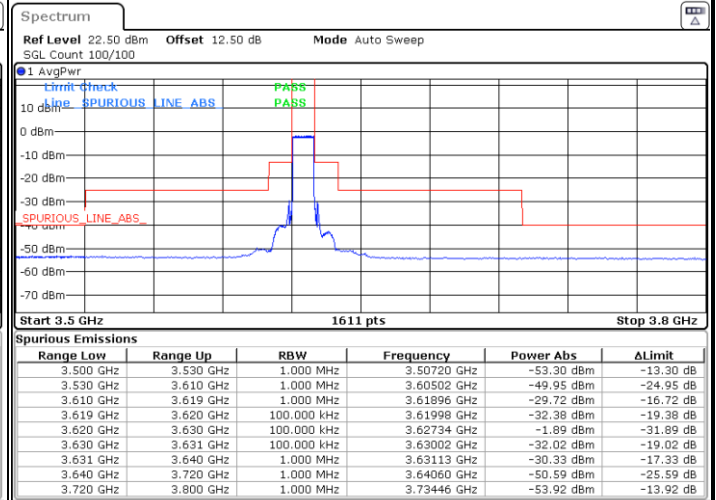
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



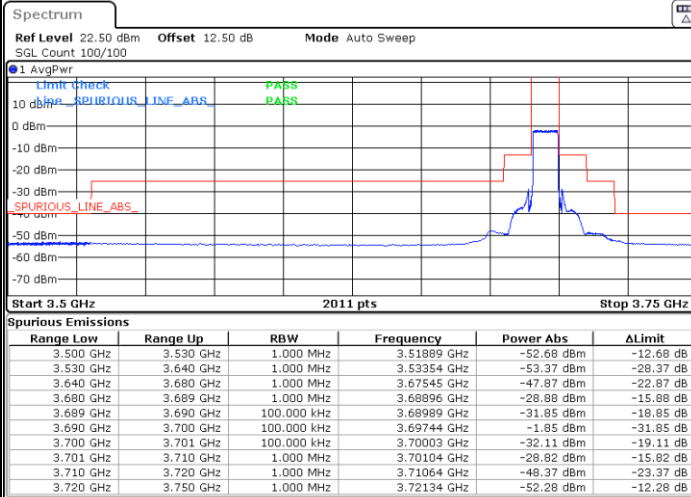
Date: 26.MAR.2026 01:35:51



Date: 26.MAR.2026 01:37:06

Highest Channel / FullIRB

N/A



Date: 26.MAR.2026 01:38:22

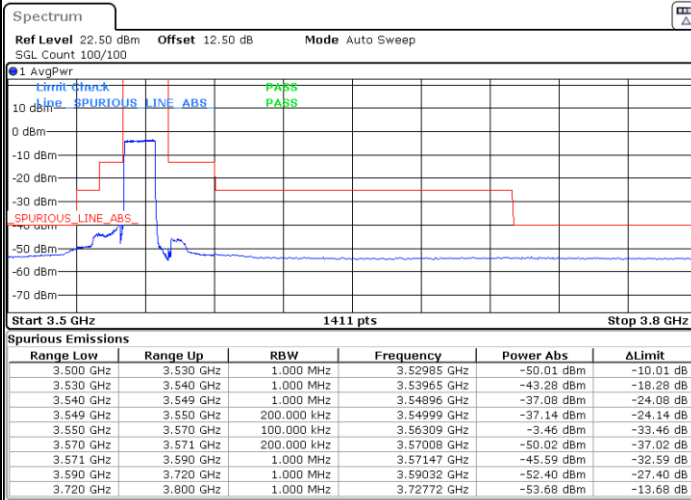


LTE Band 48 / 15MHz

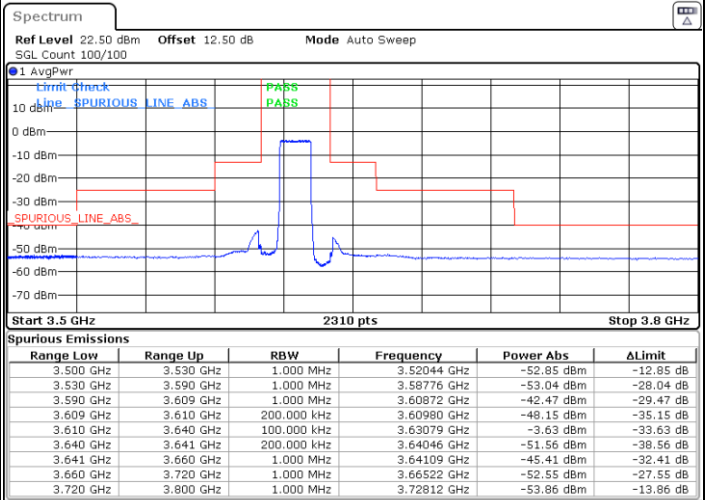
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



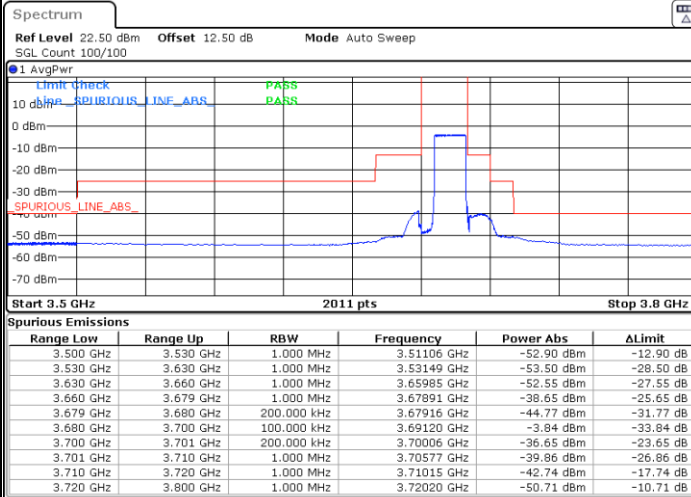
Date: 26.MAR.2026 01:39:38



Date: 26.MAR.2026 01:40:52

Highest Channel / FullIRB

N/A



Date: 26.MAR.2026 01:42:09

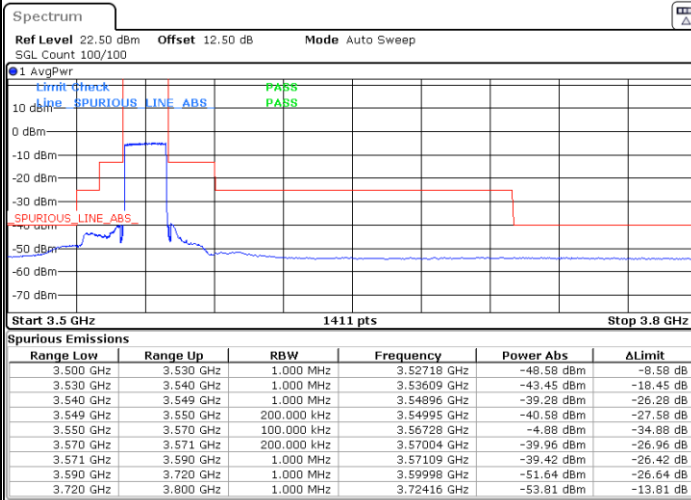


LTE Band 48 / 20MHz

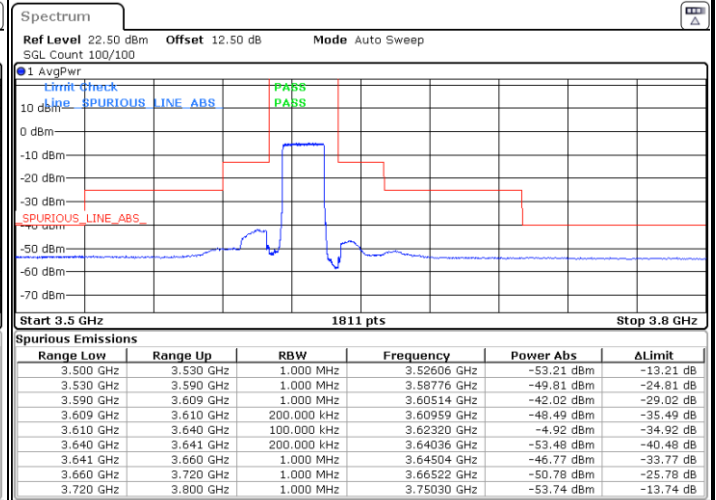
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



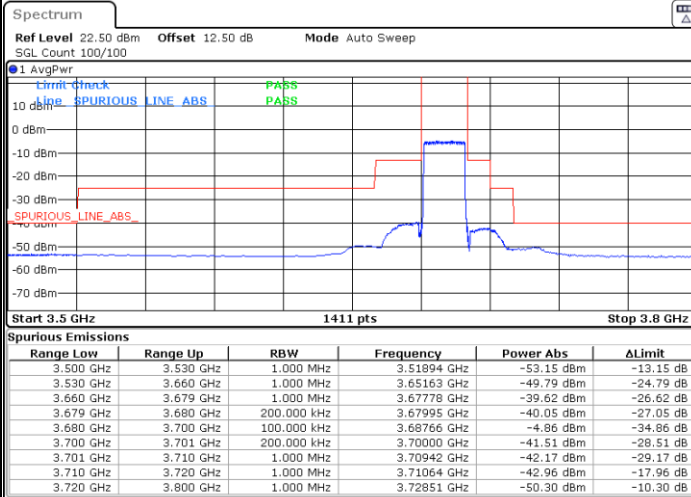
Date: 26.MAR.2026 01:43:24



Date: 26.MAR.2026 01:44:39

Highest Channel / FullIRB

N/A



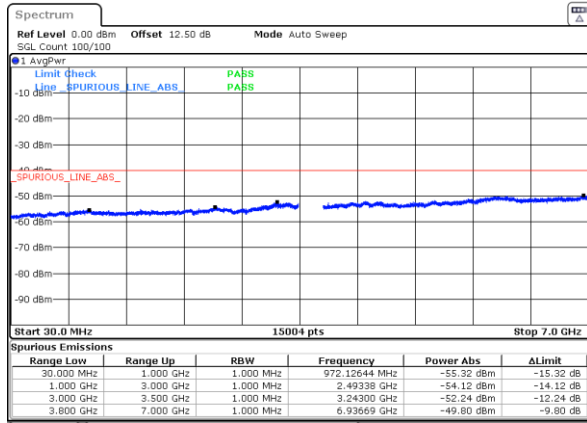
Date: 26.MAR.2026 01:45:53



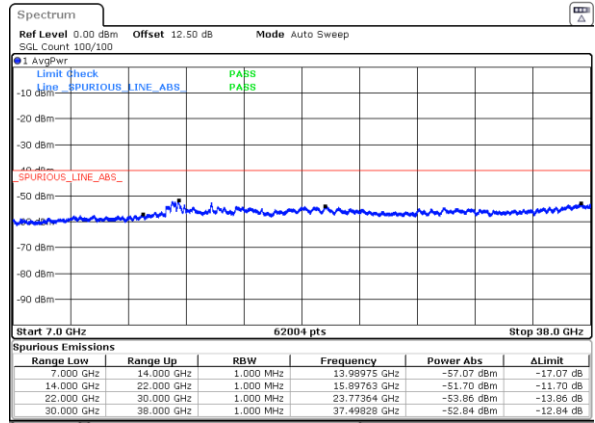
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

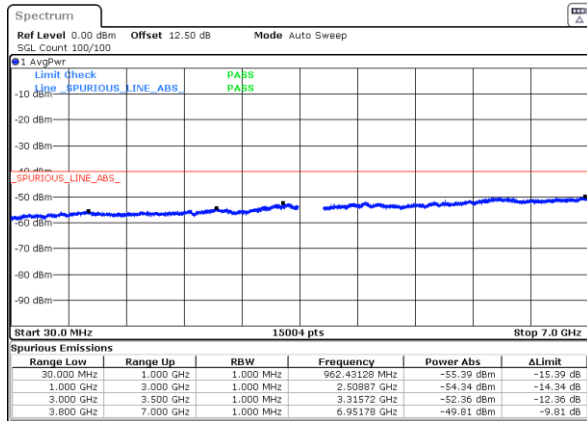


Date: 26.MAR.2026 01:47:17

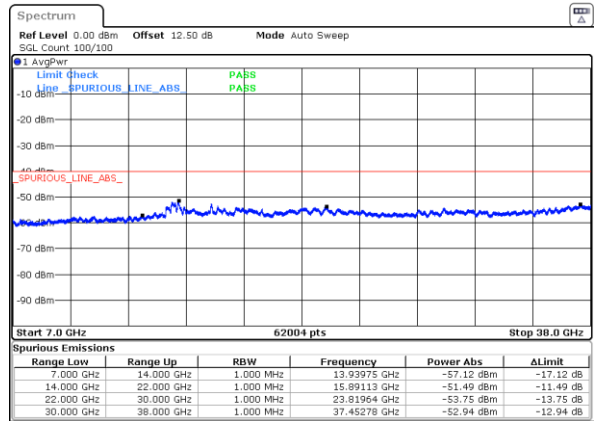


Date: 27.MAR.2026 00:10:01

Middle Channel / QPSK

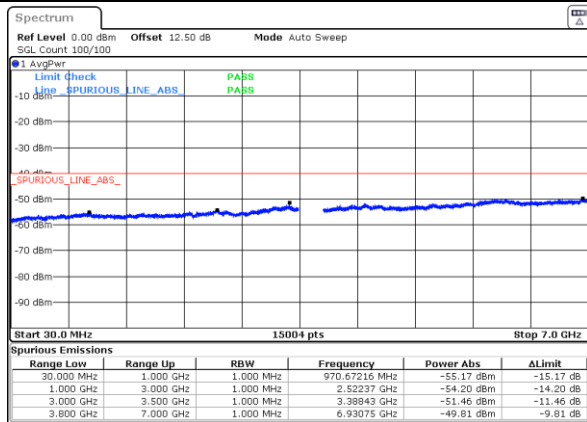


Date: 26.MAR.2026 01:48:41

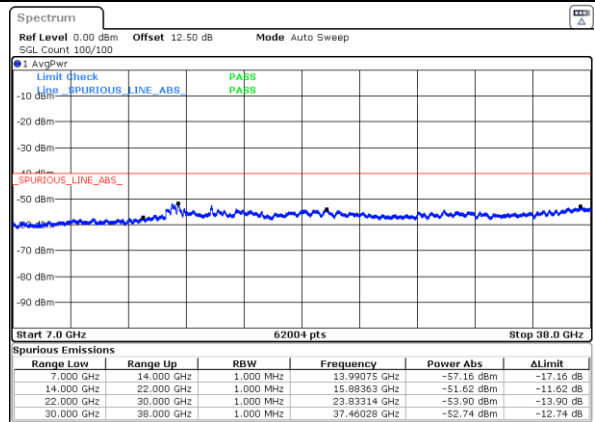


Date: 27.MAR.2026 00:10:10

Highest Channel / QPSK



Date: 26.MAR.2026 01:50:05

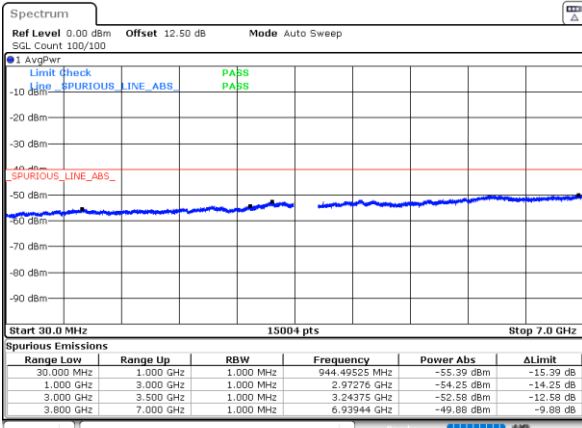


Date: 27.MAR.2026 00:10:55

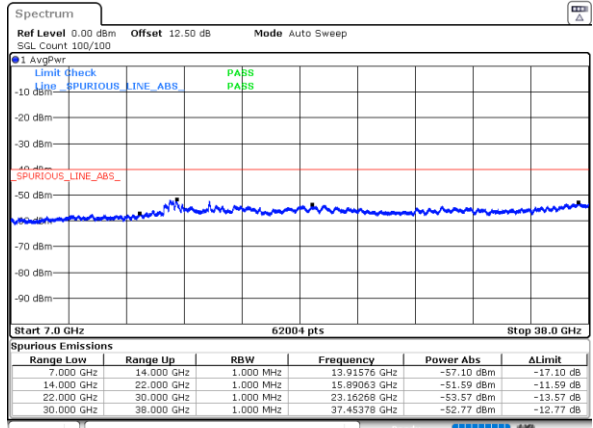


LTE Band 48 / 10MHz

Lowest Channel / QPSK

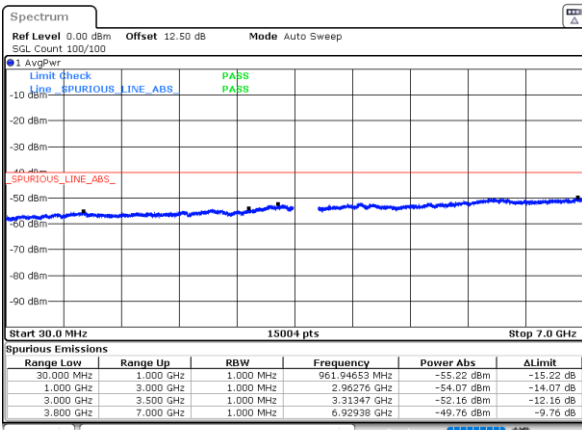


Date: 26.MAR.2026 01:51:27

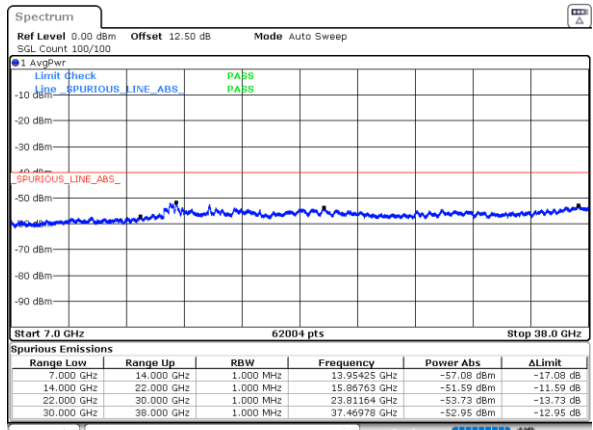


Date: 27.MAR.2026 00:07:21

Middle Channel / QPSK

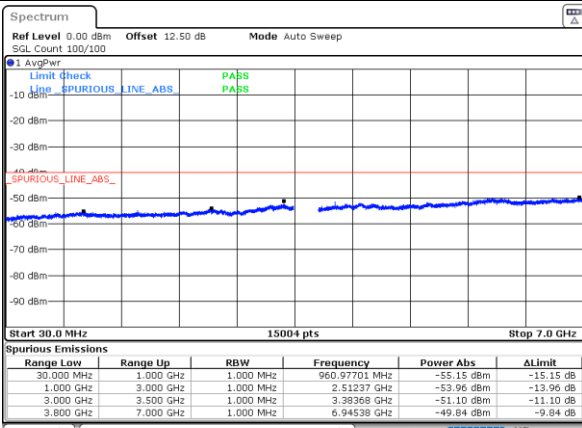


Date: 26.MAR.2026 01:52:52

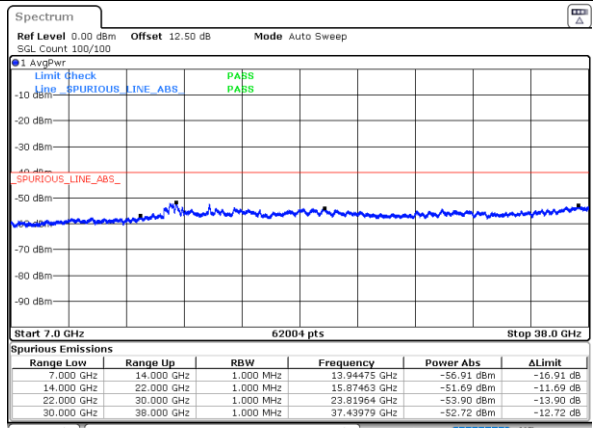


Date: 27.MAR.2026 00:08:48

Highest Channel / QPSK



Date: 26.MAR.2026 01:54:16

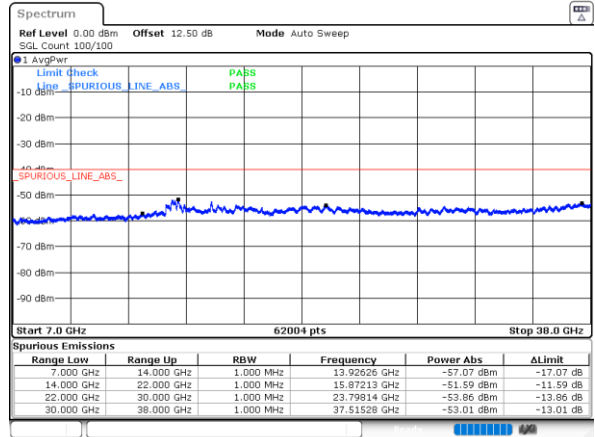
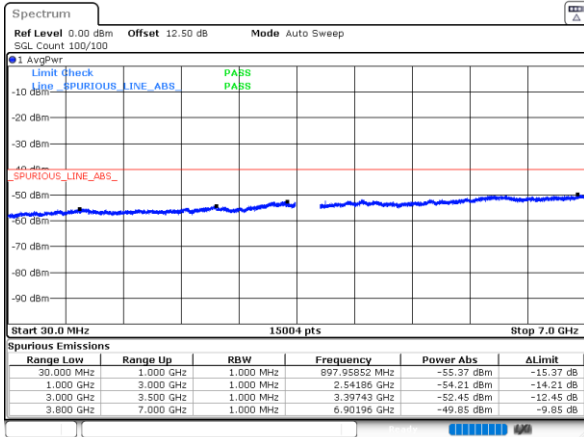


Date: 27.MAR.2026 00:10:16

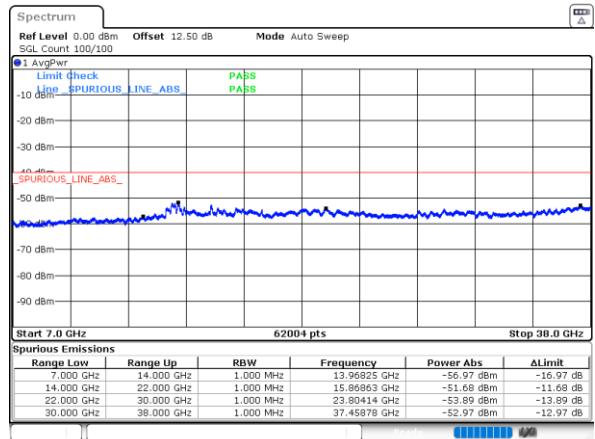
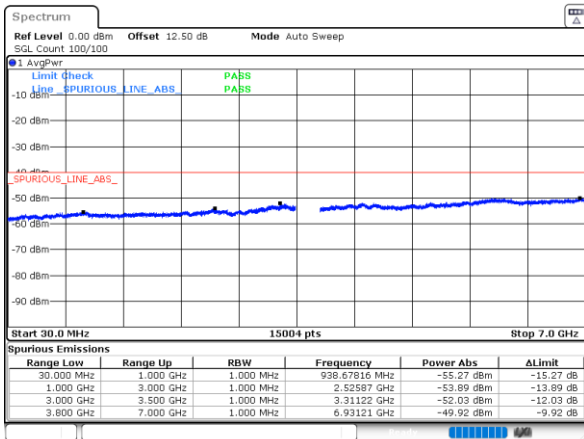


LTE Band 48 / 15MHz

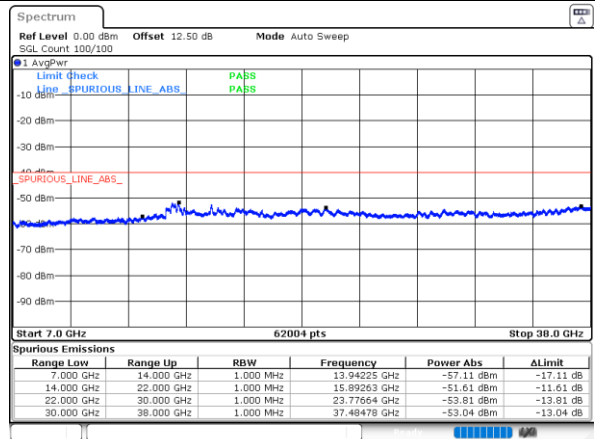
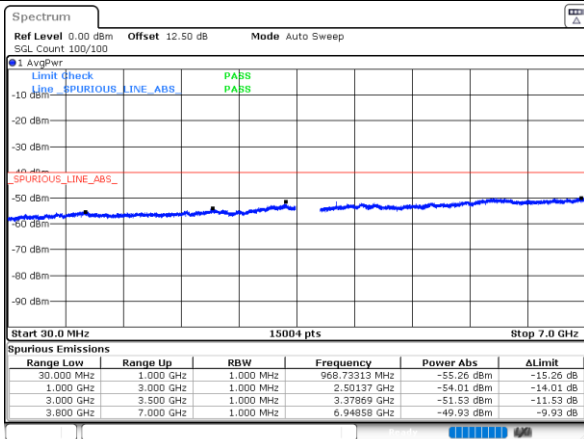
Lowest Channel / QPSK



Middle Channel / QPSK



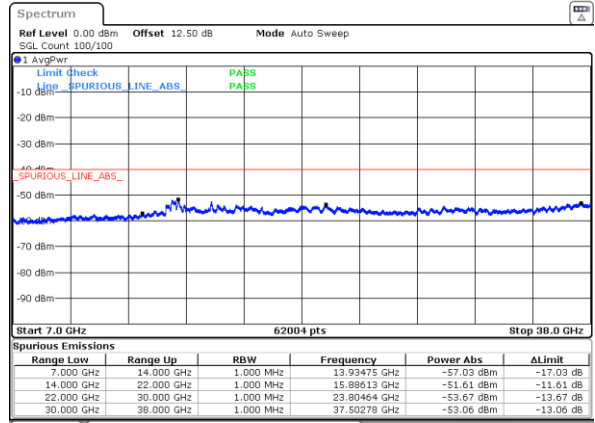
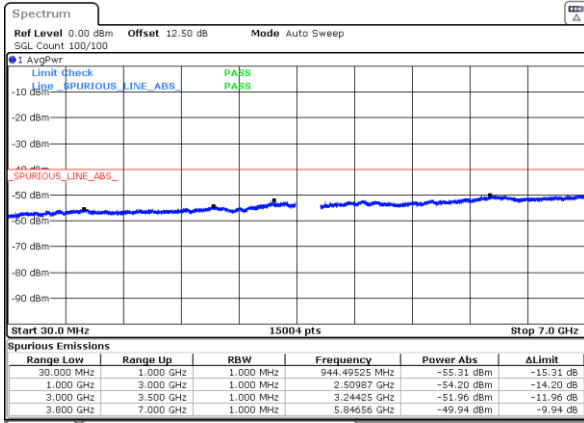
Highest Channel / QPSK



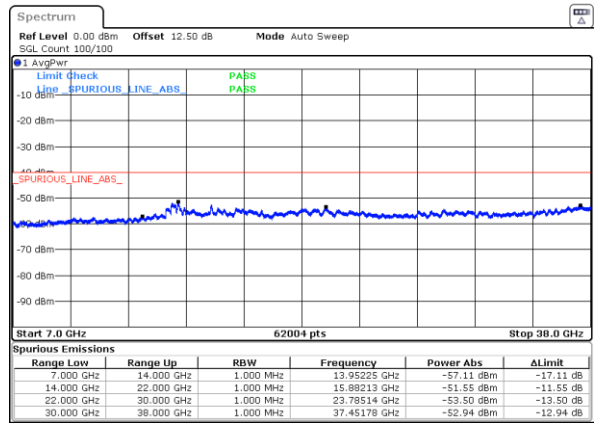
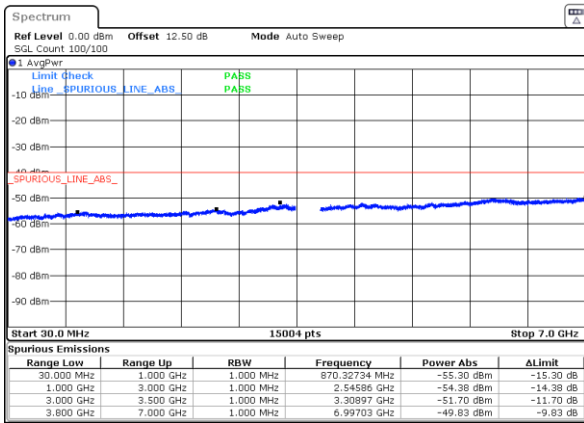


LTE Band 48 / 20MHz

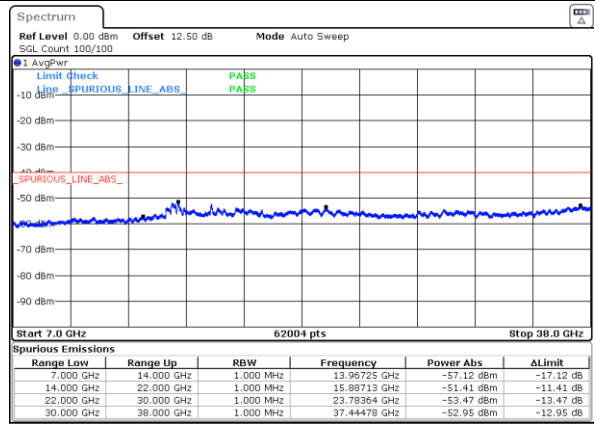
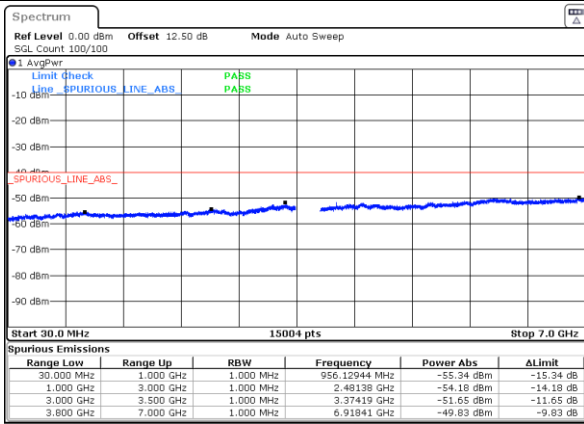
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



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	0.0003	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0031	

Note:

1. Normal Voltage = 3.91 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48C

26dB Bandwidth

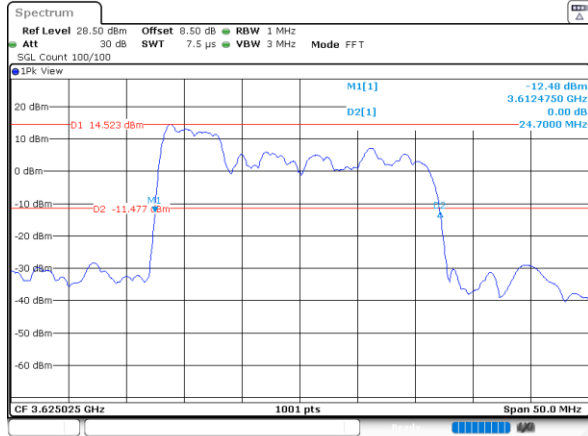
Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.70	29.88	34.79	25.05
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.12	35.14	39.84	-
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+20MHz	20MHz+5MHz
Middle CH	24.85	29.82	35.07	25.15
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.06	35.00	39.92	-



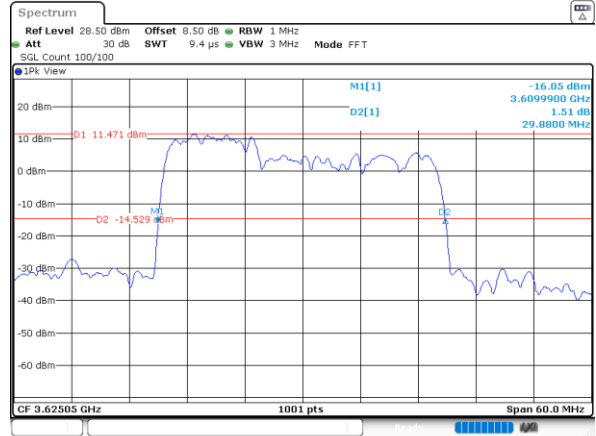
LTE Band 48C

QPSK

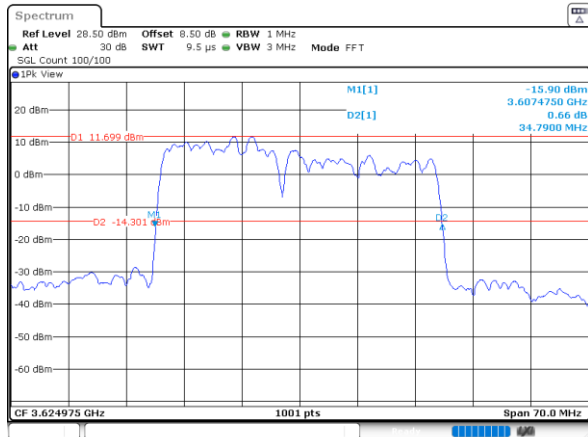
Middle Channel / 5MHz+20MHz



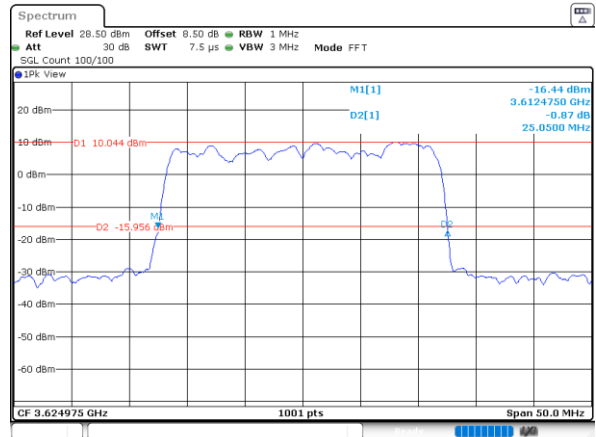
Middle Channel / 10MHz+20MHz



Middle Channel / 15MHz+20MHz



Middle Channel / 20MHz+5MHz

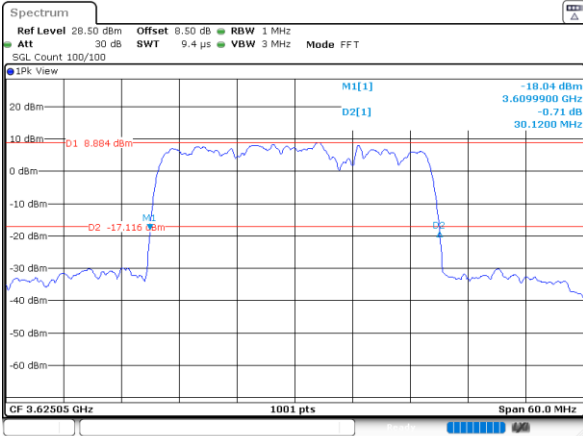




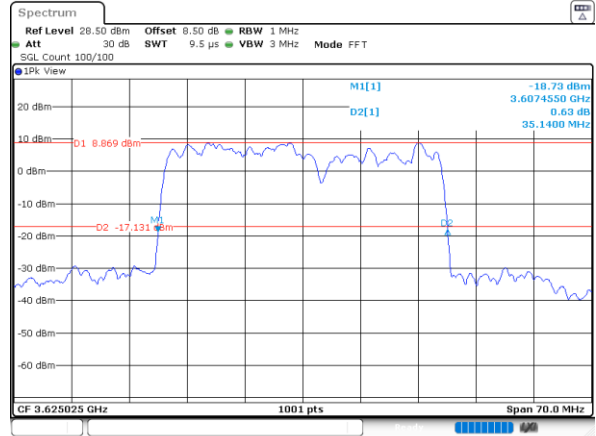
LTE Band 48C

QPSK

Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz



N/A