



FCC RADIO TEST REPORT

FCC ID : NKR-VMC-SA525MAX
Equipment : NAD(Network Access Device)
Brand Name : WNC Corporation
Model Name : VMC-SA525MAX
Applicant : WNC Corporation
20 Park Avenue II, Hsinchu Science Park,
Hsinchu, TAIWAN 308
Manufacturer : WNC Corporation
20 Park Avenue II, Hsinchu Science Park,
Hsinchu, TAIWAN 308
Standard : FCC 47 CFR Part 2, 96

The product was received on Feb. 12, 2026 and testing was performed from Apr. 08, 2026 to Apr. 30, 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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Site	5
1.4 Applied Standards	6
2 Test Configuration of Equipment Under Test	7
2.1 Test Mode	7
2.2 Connection Diagram of Test System	8
2.3 Support Unit used in test configuration and system	8
2.4 Measurement Results Explanation Example	8
2.5 Frequency List of Low/Middle/High Channels	9
3 Conducted Test Items	10
3.1 Measuring Instruments	10
3.2 Conducted Output Power Measurement	11
3.3 Peak-to-Average Ratio	12
3.4 EIRP and Power Density	13
3.5 Occupied Bandwidth	14
3.6 Conducted Band Edge	15
3.7 Conducted Spurious Emission	16
3.8 Frequency Stability	17
4 Radiated Test Items	18
4.1 Measuring Instruments	18
4.2 Test Setup	18
4.3 Test Result of Radiated Test	19
4.4 Radiated Spurious Emission	20
5 List of Measuring Equipment.....	21
6 Measurement Uncertainty	22
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FG621357C	01	Initial issue of report	May 29, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
		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	-

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: Yun Huang**Report Producer: Aya Yang**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE/5G NR and GNSS

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

Support band and evaluated information		
Supported band	Ant 2	n48

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. Maximum allow antenna Gain : refer MPE Report FA621357.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 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	03CH20-HY
Test Engineer	Cotty Hsu	John Chuang, David Dai, Sam Chou
Temperature (°C)	22.2 ~ 22.9	18.8 ~ 22.6
Relative Humidity (%)	53.2 ~ 55.6	63.9 ~ 70.6

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

FCC Designation No.: TW3786



1.4 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 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 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 adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Band	Plane
B48	Antenna Degree 0

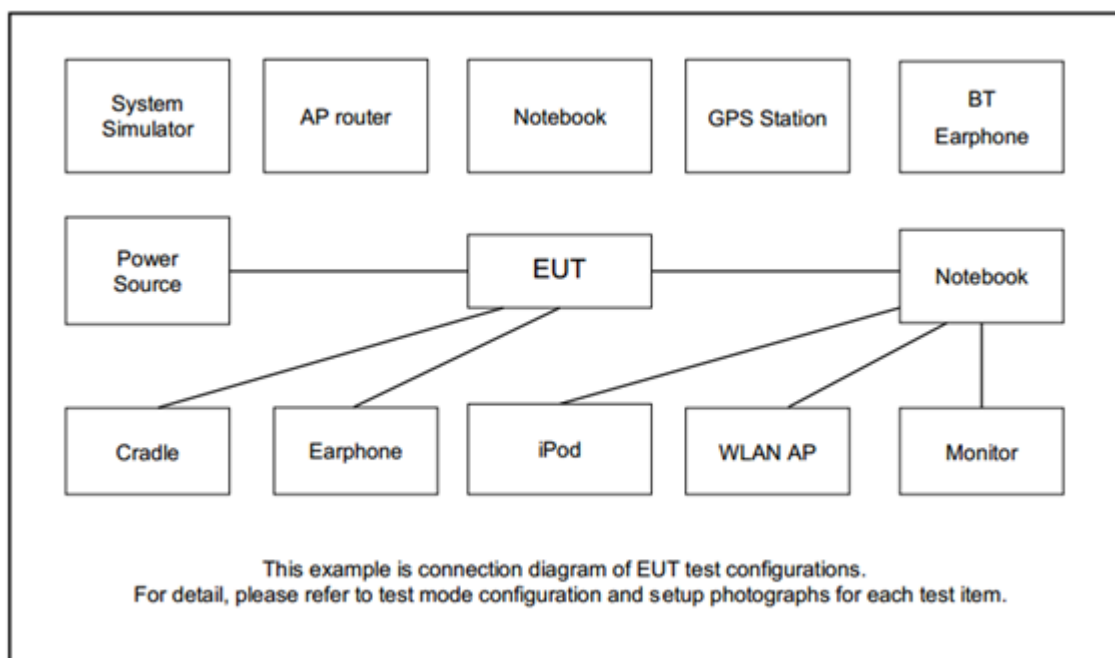
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

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	20 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. For PAR test, the worst case bandwidth is found 20 MHz during preliminary test.
4. For RSE test, the worst case bandwidth is found 20 MHz during preliminary test.
5. The test country code is set to MCC 310.

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	8821C	N/A	N/A	N/A
2.	Power supply	GW Instek	GPE-2323	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 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

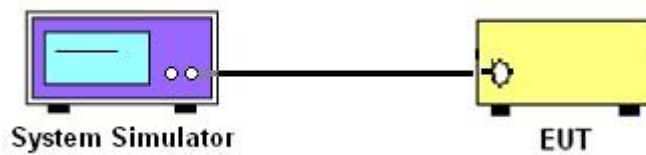
3 Conducted Test Items

3.1 Measuring Instruments

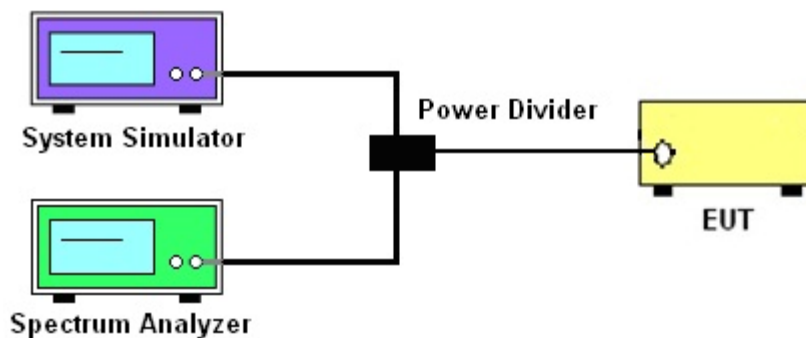
See list of measuring instruments of this test report.

3.1.1 Test Setup

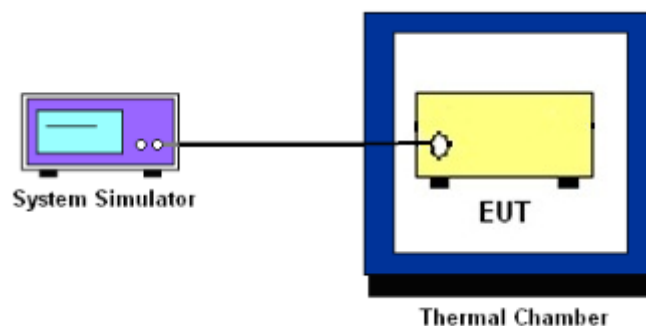
3.1.2 Conducted Output Power



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

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 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.

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 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 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 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.

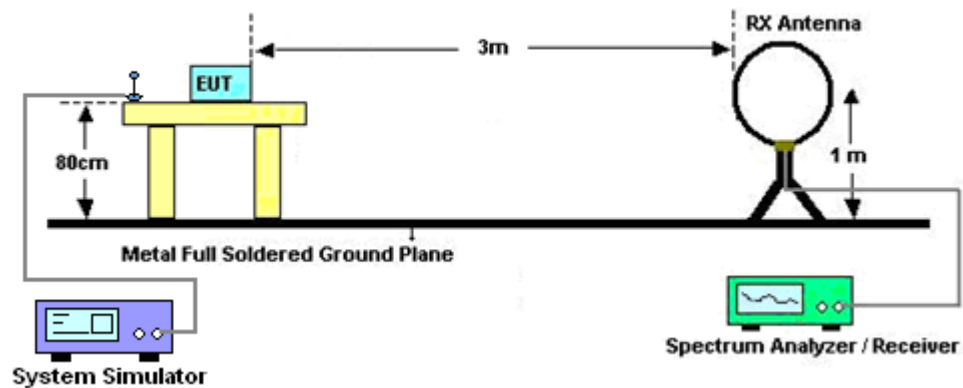
4 Radiated Test Items

4.1 Measuring Instruments

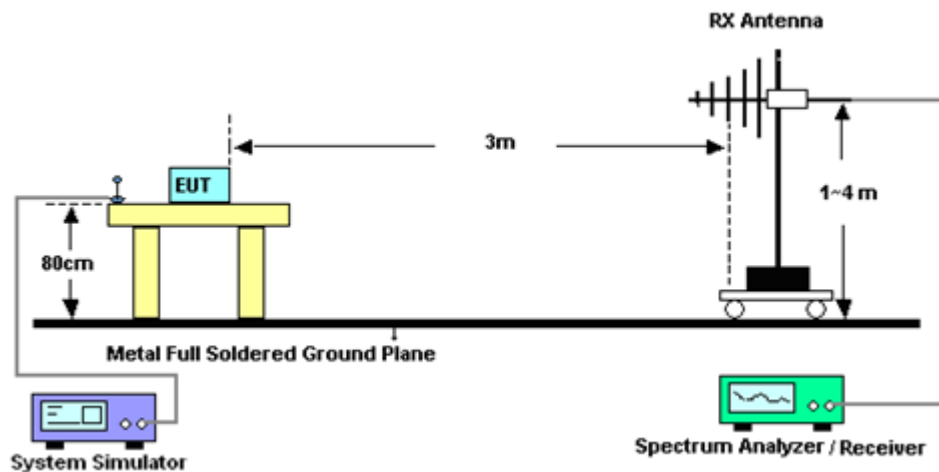
See list of measuring instruments of this test report.

4.2 Test Setup

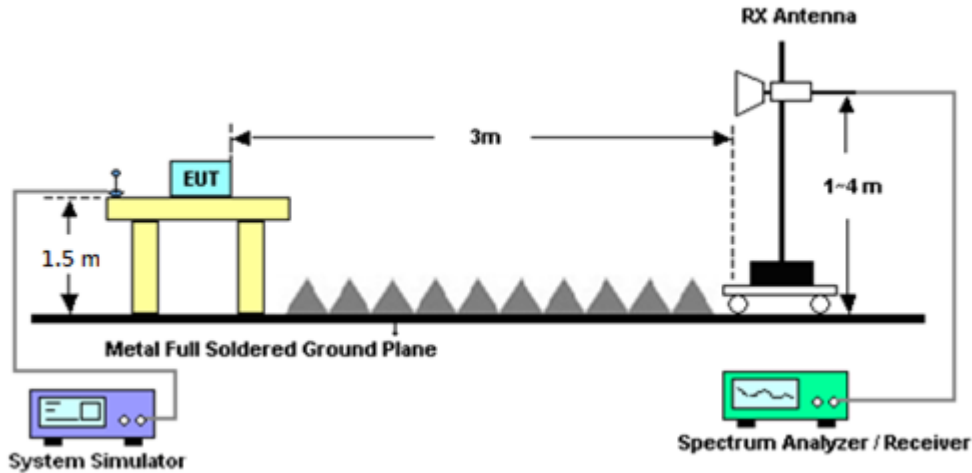
For radiated test below 30MHz



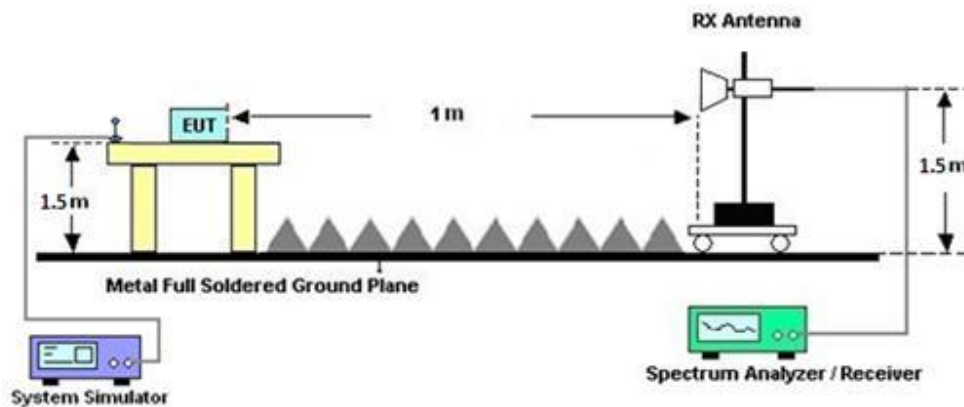
For radiated test from 30MHz to 1GHz



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
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Apr. 08, 2026~ Apr. 28, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Apr. 08, 2026~ Apr. 28, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz~18G Hz	Oct. 16, 2025	Apr. 08, 2026~ Apr. 28, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Apr. 08, 2026~ Apr. 28, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May. 12, 2025	Apr. 08, 2026~ Apr. 28, 2026	May. 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Apr. 08, 2026~ Apr. 28, 2026	Jun. 12, 2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Apr. 08, 2026~ Apr. 28, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 04, 2026	Apr. 08, 2026~ Apr. 28, 2026	Mar. 03, 2027	Conducted (TH05-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Apr. 10, 2026~ Apr. 30, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Apr. 10, 2026~ Apr. 30, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Apr. 10, 2026~ Apr. 30, 2026	May. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 10, 2026~ Apr. 30, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 10, 2026~ Apr. 30, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 10, 2026~ Apr. 30, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Apr. 10, 2026~ Apr. 30, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Apr. 10, 2026~ Apr. 30, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02360	1GHz~18GHz	Nov. 05, 2025	Apr. 10, 2026~ Apr. 30, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jul. 02, 2025	Apr. 10, 2026~ Apr. 30, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz~1000MHz	Dec. 30, 2025	Apr. 10, 2026~ Apr. 30, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Apr. 10, 2026~ Apr. 30, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2, 804015/2, 804027/2	N/A	Jan. 15, 2026	Apr. 10, 2026~ Apr. 30, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2, 804015/2, 25104239	N/A	Jan. 15, 2026	Apr. 10, 2026~ Apr. 30, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Apr. 10, 2026~ Apr. 30, 2026	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Apr. 10, 2026~ Apr. 30, 2026	N/A	Radiation (03CH20-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.70 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and ERI/EIRP)

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	18.98	18.86	19.01	21.85	0.1531
20	1	49		18.90	19.01	19.21		
20	1	99		18.92	18.83	19.22		
20	50	0		19.03	18.94	19.14		
20	50	24		19.06	19.04	19.34		
20	50	50		19.05	19.04	19.35		
20	100	0		19.02	19.02	19.28		
20	1	0	16-QAM	19.26	19.21	19.48	21.98	0.1578
20	1	49		19.26	19.16	19.48		
20	1	99		19.28	19.27	19.46		
20	50	0		19.04	18.98	19.17		
20	50	24		19.08	19.06	19.30		
20	50	50		19.08	19.02	19.36		
20	100	0		19.03	18.99	19.34		
20	1	0	64-QAM	19.04	19.33	19.43	21.98	0.1578
20	1	49		19.16	19.15	19.45		
20	1	99		19.18	19.20	19.48		
20	50	0		18.97	18.92	19.12		
20	50	24		19.07	19.11	19.36		
20	50	50		19.12	19.04	19.39		
20	100	0		19.01	19.00	19.28		
20	1	0	256-QAM	17.91	18.07	18.34	20.85	0.1216
20	1	49		18.12	18.15	18.07		
20	1	99		18.09	18.06	18.31		
20	50	0		17.96	17.98	18.17		
20	50	24		18.09	18.08	18.30		
20	50	50		18.07	18.05	18.35		
20	100	0		18.25	18.00	18.26		
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 = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	19.07	18.79	18.99	21.88	0.1542
15	1	37		18.89	18.79	19.17		
15	1	74		18.94	18.85	19.31		
15	36	0		18.95	18.89	19.16		
15	36	20		18.99	19.05	19.30		
15	36	39		19.01	19.03	19.38		
15	75	0		18.95	18.97	19.31		
15	1	0	16-QAM	19.11	19.40	19.46	21.98	0.1578
15	1	37		19.19	19.32	19.46		
15	1	74		19.31	19.27	19.48		
15	36	0		18.98	18.99	19.22		
15	36	20		18.98	19.03	19.34		
15	36	39		19.04	19.06	19.36		
15	75	0		19.01	19.06	19.26		
15	1	0	64-QAM	18.99	19.13	19.34	21.98	0.1578
15	1	37		19.11	19.31	19.48		
15	1	74		19.13	19.25	19.42		
15	36	0		18.95	18.91	19.17		
15	36	20		19.01	19.07	19.34		
15	36	39		19.04	19.05	19.33		
15	75	0		18.96	19.05	19.32		
15	1	0	256-QAM	17.89	18.19	18.38	20.99	0.1256
15	1	37		18.24	18.14	18.02		
15	1	74		18.15	18.11	18.49		
15	36	0		17.97	17.99	18.18		
15	36	20		18.00	18.02	18.30		
15	36	39		18.05	17.99	18.37		
15	75	0		17.97	18.01	18.30		
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 = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	19.02	18.94	19.22	21.85	0.1531
10	1	25		19.04	19.02	19.31		
10	1	49		19.08	18.90	19.33		
10	25	0		18.96	18.97	19.20		
10	25	12		19.00	19.06	19.29		
10	25	25		18.97	19.02	19.35		
10	50	0		19.00	19.08	19.25		
10	1	0	16-QAM	19.12	19.27	19.48	21.99	0.1581
10	1	25		19.17	19.25	19.48		
10	1	49		19.30	19.32	19.49		
10	25	0		19.05	19.03	19.28		
10	25	12		19.05	19.08	19.29		
10	25	25		19.06	19.08	19.38		
10	50	0		18.98	19.05	19.24		
10	1	0	64-QAM	19.09	19.04	19.43	21.93	0.1560
10	1	25		19.16	19.32	19.37		
10	1	49		19.11	19.13	19.43		
10	25	0		19.05	19.03	19.29		
10	25	12		19.09	19.09	19.30		
10	25	25		19.09	19.11	19.35		
10	50	0		19.02	19.12	19.32		
10	1	0	256-QAM	17.93	18.06	18.07	20.97	0.1250
10	1	25		18.21	18.21	18.47		
10	1	49		18.24	18.17	18.46		
10	25	0		17.99	17.97	18.25		
10	25	12		18.02	18.07	18.30		
10	25	25		18.04	18.05	18.36		
10	50	0		17.99	18.07	18.31		
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 = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	19.09	19.07	19.19	21.86	0.1535
5	1	12		19.11	19.02	19.25		
5	1	24		18.90	19.01	19.23		
5	12	0		18.98	19.07	19.30		
5	12	7		18.97	19.11	19.36		
5	12	13		18.95	19.00	19.36		
5	25	0		18.92	18.96	19.25		
5	1	0	16-QAM	19.23	19.43	19.45	21.96	0.1570
5	1	12		19.19	19.44	19.42		
5	1	24		19.44	19.30	19.43		
5	12	0		18.97	19.15	19.26		
5	12	7		19.11	19.21	19.40		
5	12	13		19.01	19.12	19.46		
5	25	0		19.01	19.05	19.31		
5	1	0	64-QAM	19.15	19.26	19.50	22.00	0.1585
5	1	12		19.07	19.28	19.43		
5	1	24		19.00	19.17	19.37		
5	12	0		19.03	19.15	19.30		
5	12	7		19.06	19.13	19.35		
5	12	13		19.03	19.05	19.45		
5	25	0		19.07	19.10	19.28		
5	1	0	256-QAM	17.95	17.85	17.81	20.96	0.1247
5	1	12		18.42	18.23	18.46		
5	1	24		18.03	18.10	18.39		
5	12	0		17.99	18.10	18.34		
5	12	7		18.10	18.12	18.37		
5	12	13		18.03	18.02	18.37		
5	25	0		17.98	18.04	18.28		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

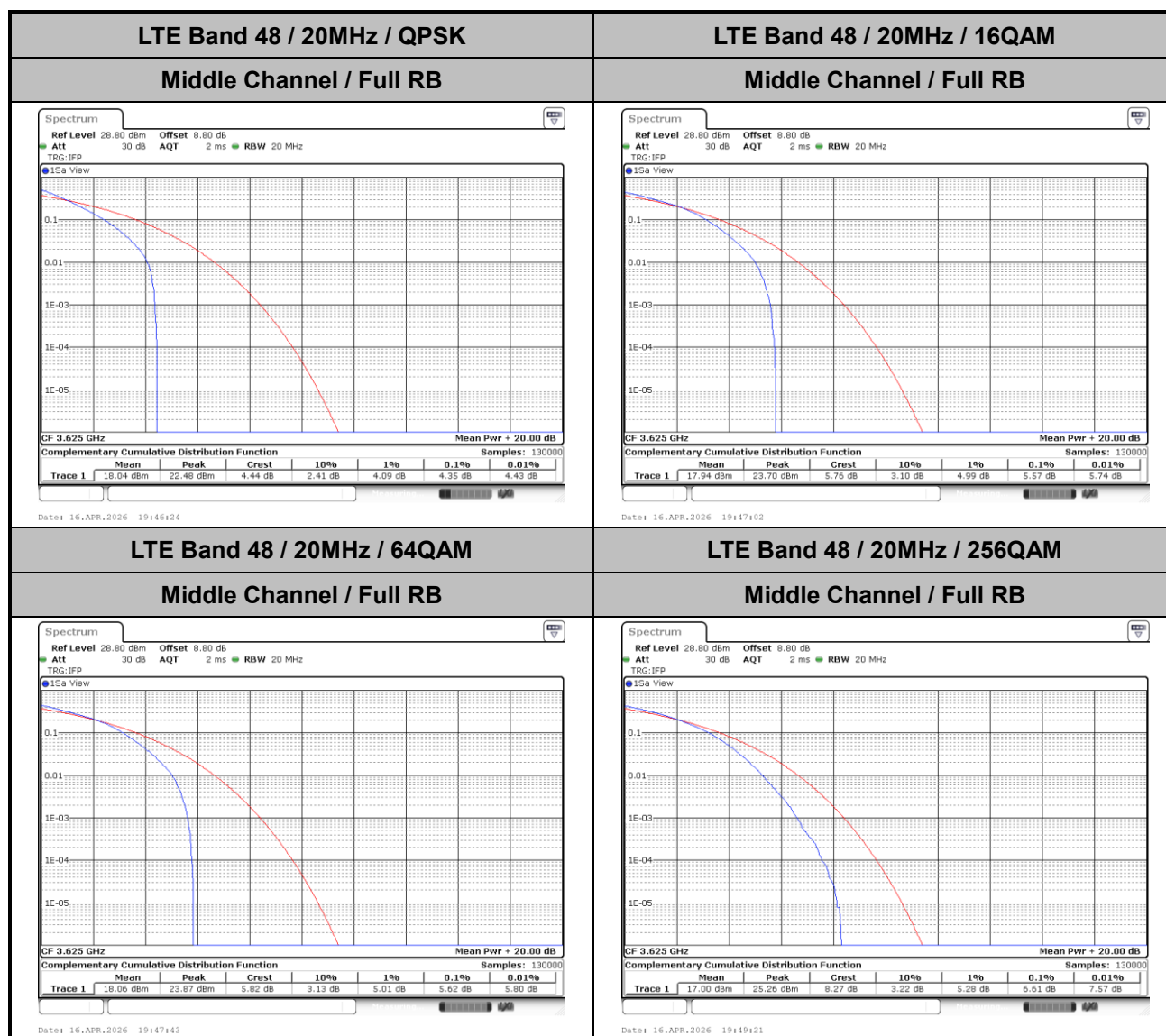
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



LTE Band 48

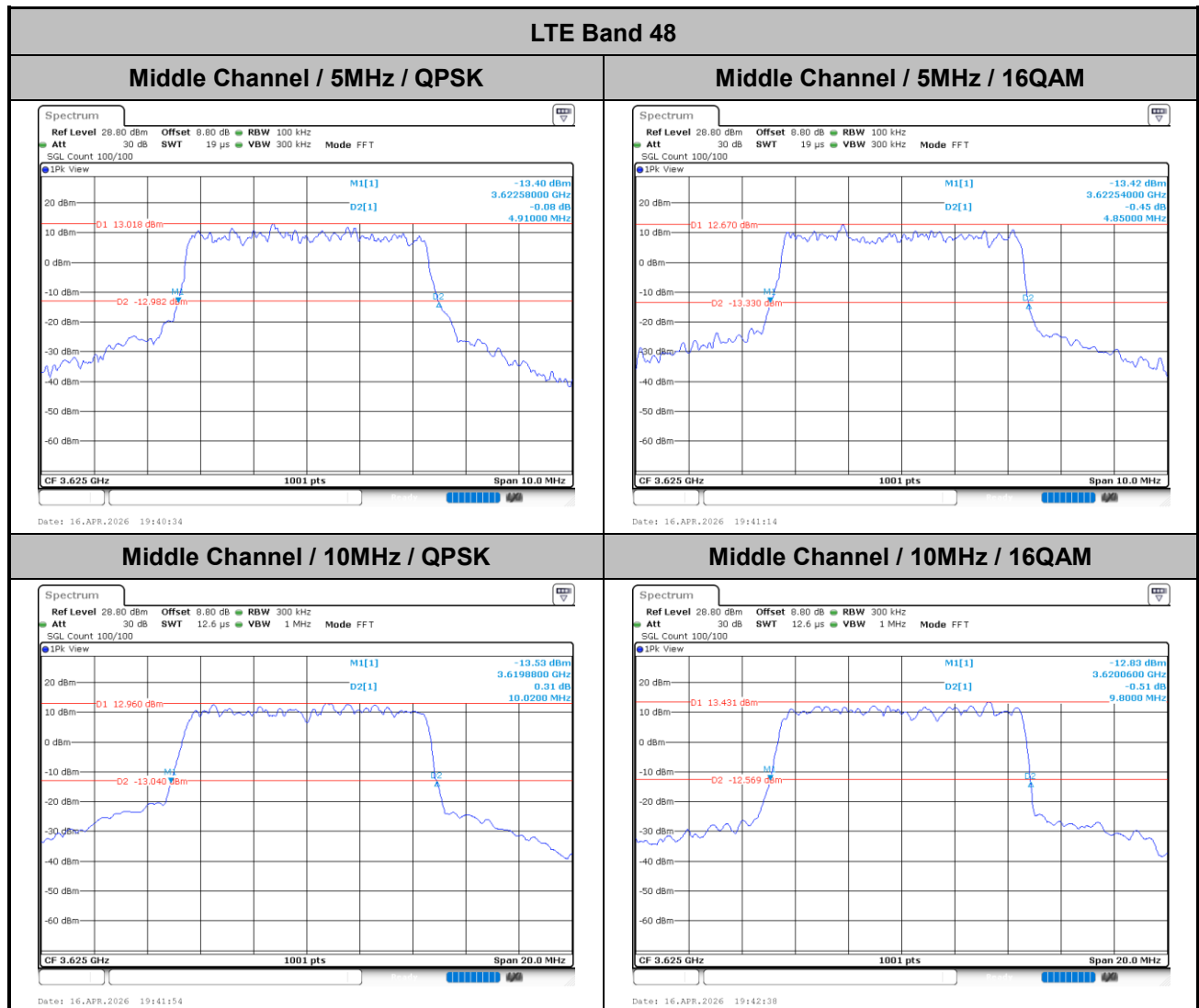
Peak-to-Average Ratio

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	4.35	5.57	5.62	6.61	PASS



**26dB Bandwidth**

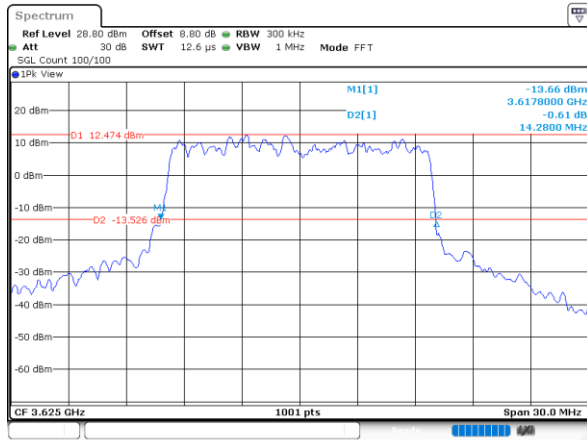
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.91	4.85	10.02	9.80	14.28	14.31	19.16	19.40





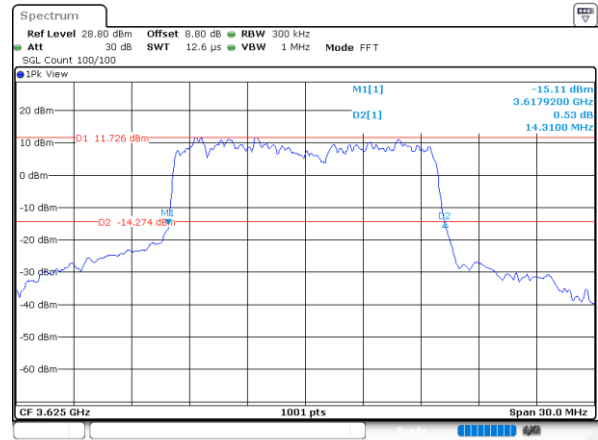
LTE Band 48

Middle Channel / 15MHz / QPSK



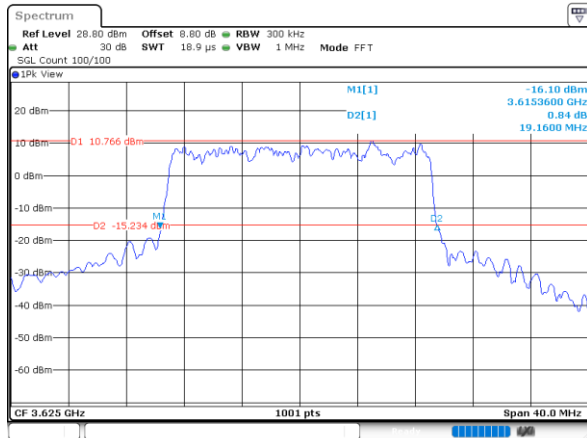
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Middle Channel / 15MHz / 16QAM



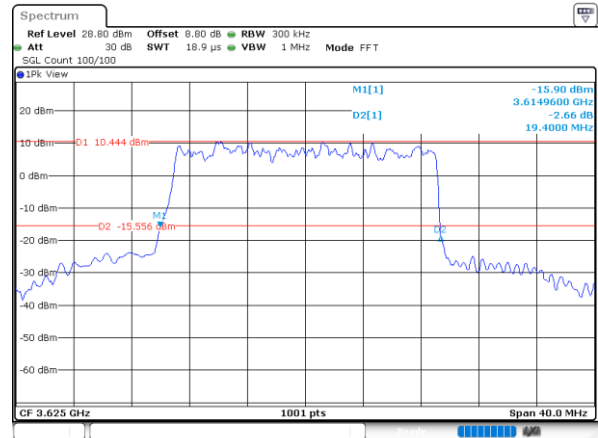
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Middle Channel / 20MHz / QPSK



Date: 16.APR.2026 19:45:00

Middle Channel / 20MHz / 16QAM

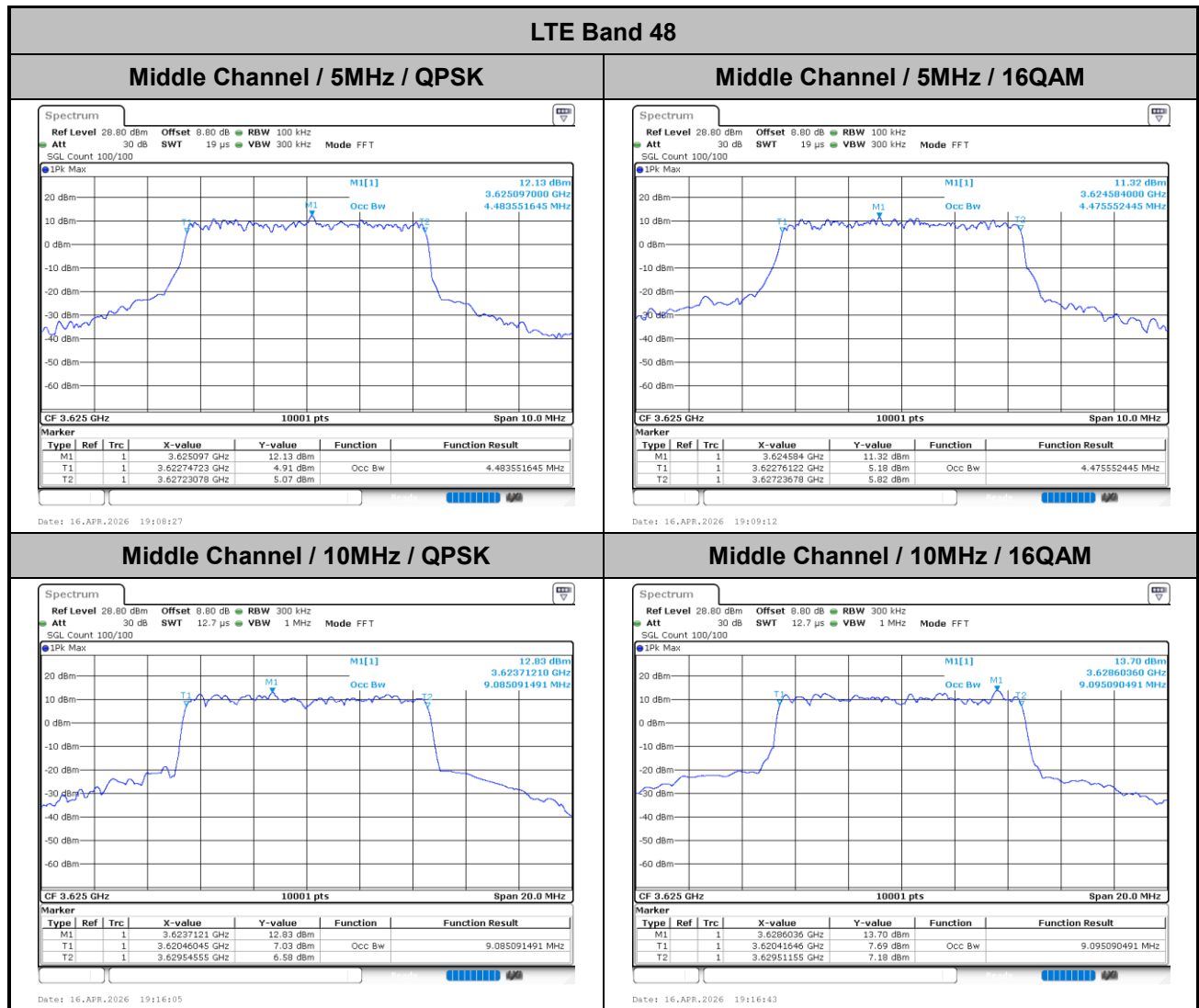


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Occupied Bandwidth

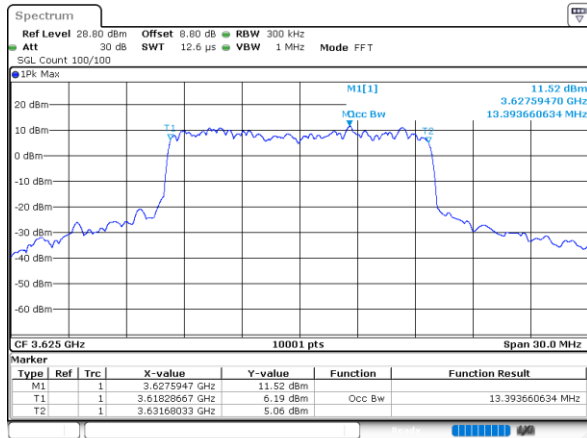
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.47	9.08	9.09	13.39	13.46	17.89	17.81



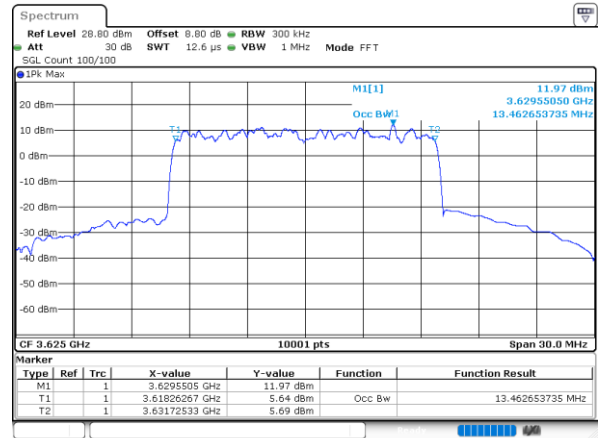


LTE Band 48

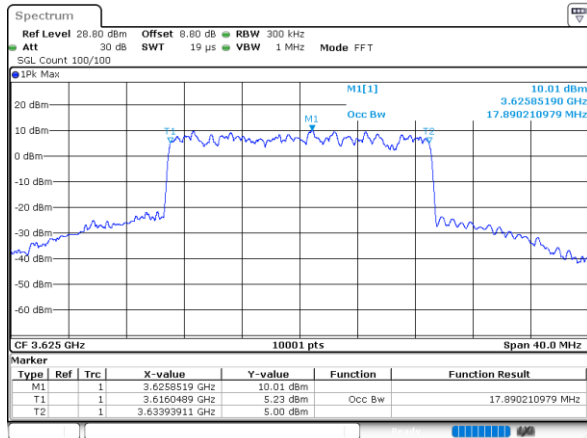
Middle Channel / 15MHz / QPSK



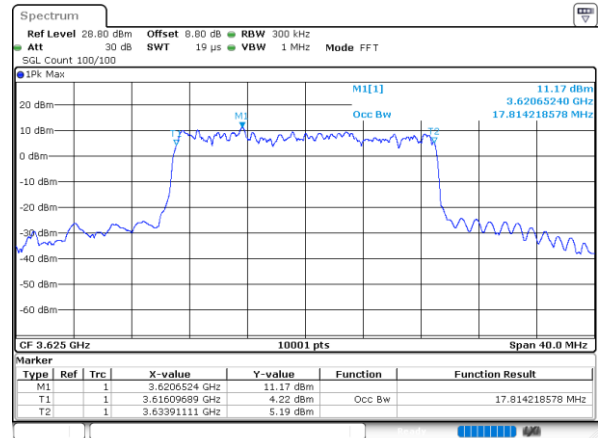
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



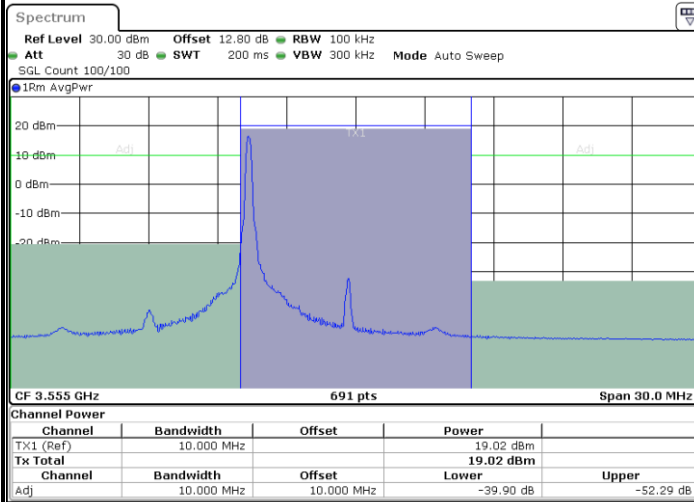


ACLR

LTE Band 48 / 5MHz

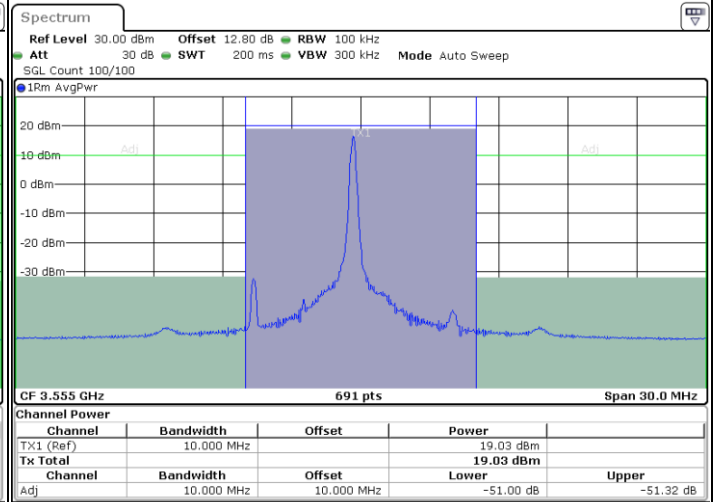
QPSK

Lowest Channel / 1RB0



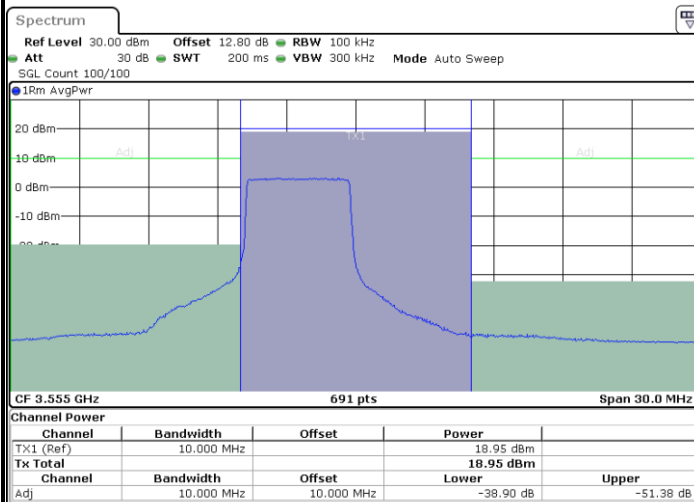
Date: 16.APR.2026 19:50:22

Lowest Channel / 1RBmax



Date: 16.APR.2026 19:55:35

Lowest Channel / FullIRB



Date: 16.APR.2026 19:52:58

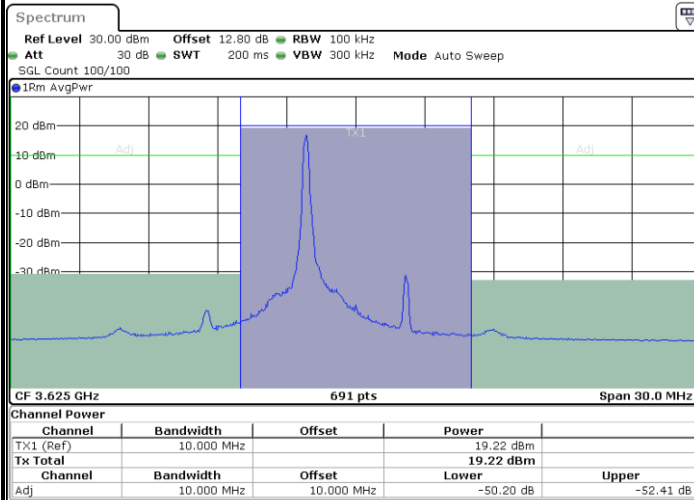
N/A



LTE Band 48 / 5MHz

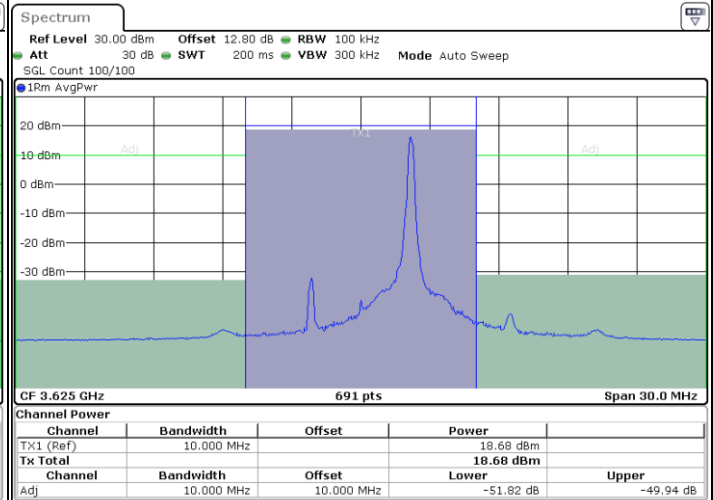
QPSK

Middle Channel / 1RB0



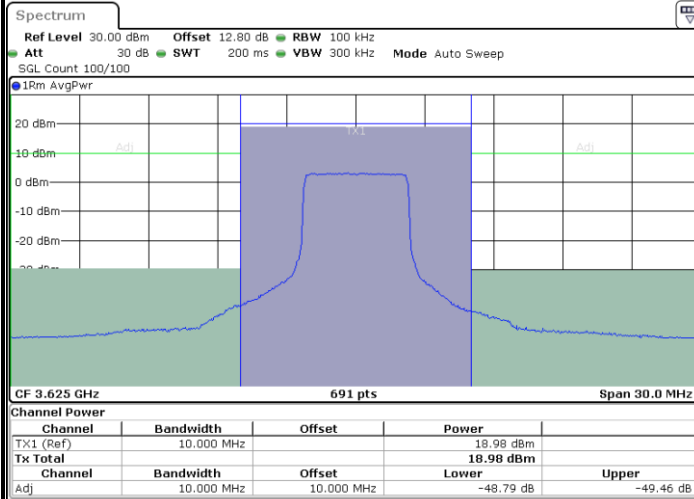
Date: 16.APR.2026 19:51:14

Middle Channel / 1RBmax



Date: 16.APR.2026 19:56:29

Middle Channel / FullRB



Date: 16.APR.2026 19:53:49

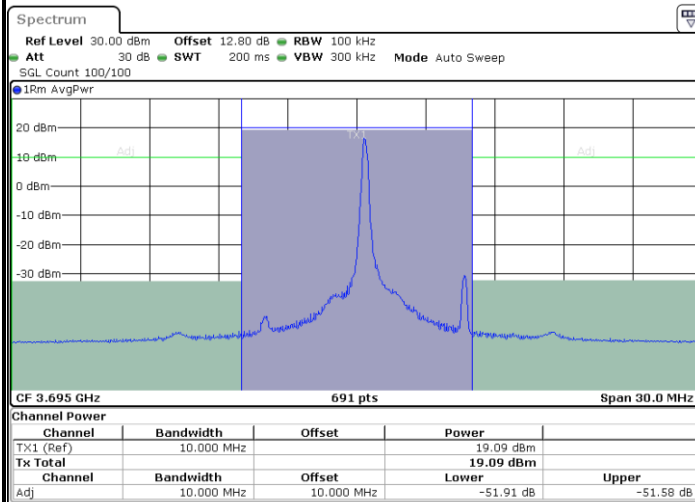
N/A



LTE Band 48 / 5MHz

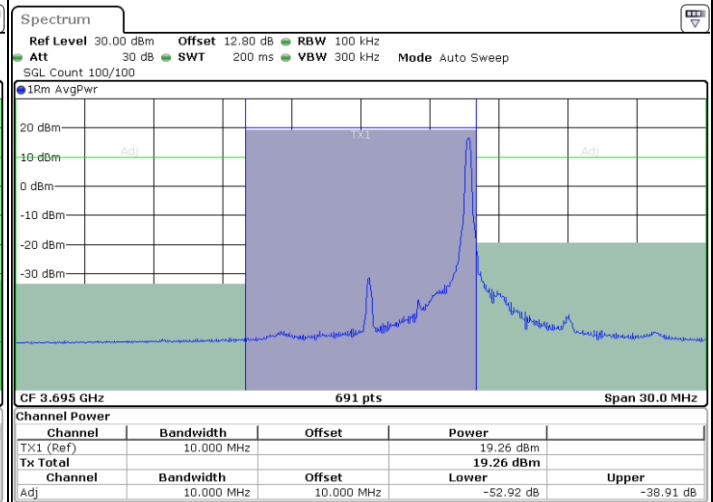
QPSK

Highest Channel / 1RB0



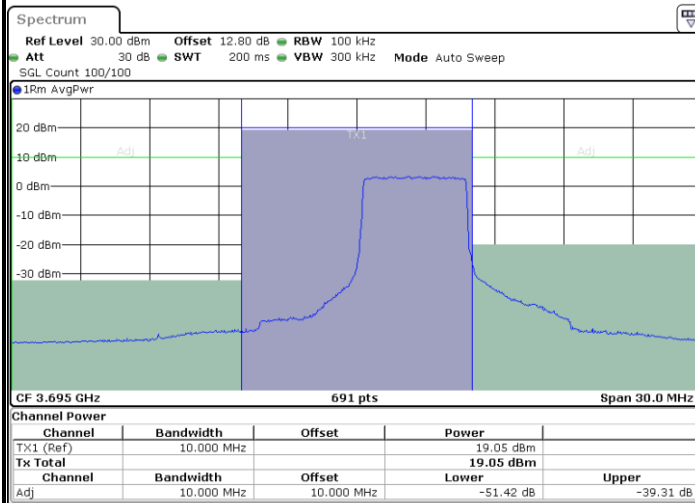
Date: 16.APR.2026 19:52:06

Highest Channel / 1RBmax



Date: 16.APR.2026 19:57:23

Highest Channel / FullRB



Date: 16.APR.2026 19:54:42

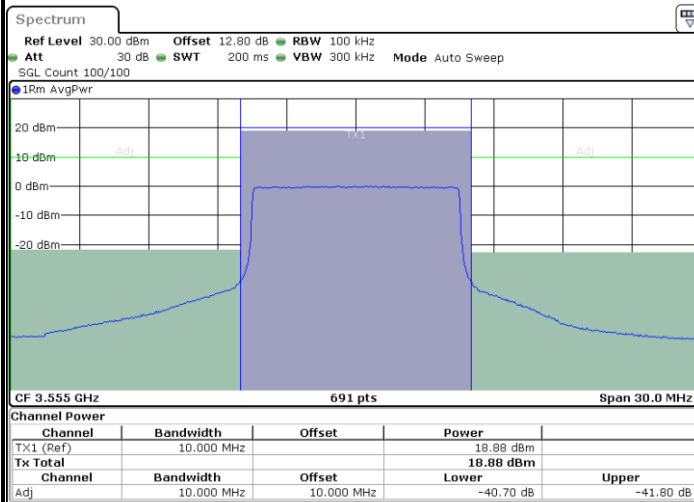
N/A



LTE Band 48 / 10MHz

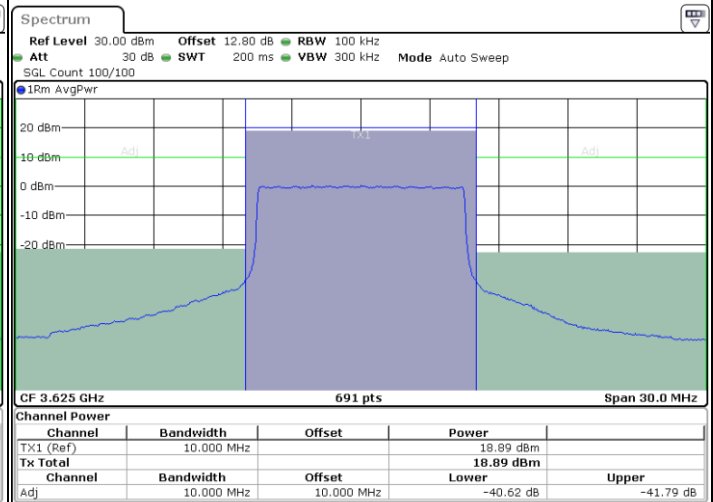
QPSK

Lowest Channel / FullIRB



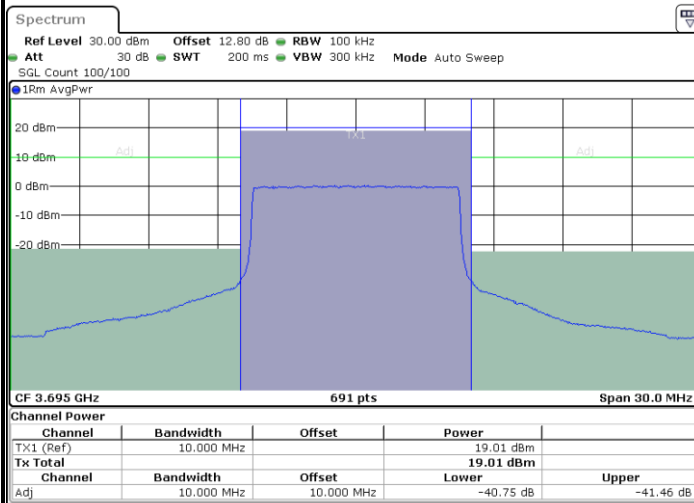
Date: 16.APR.2026 19:58:16

Middle Channel / FullIRB



Date: 16.APR.2026 19:59:07

Highest Channel / FullIRB



Date: 16.APR.2026 20:00:00

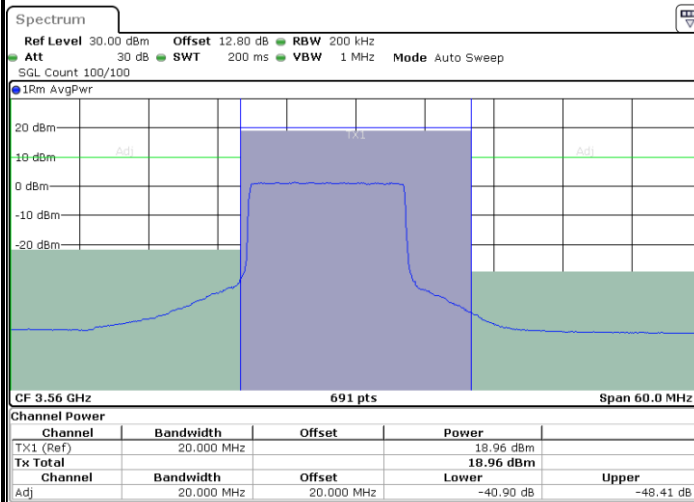
N/A



LTE Band 48 / 15MHz

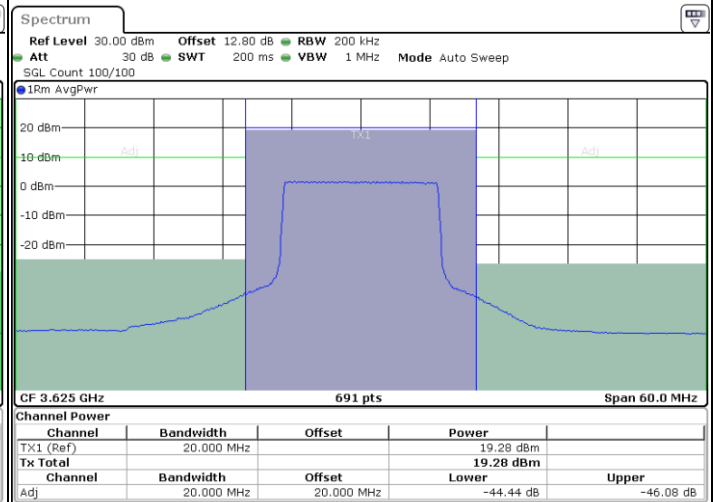
QPSK

Lowest Channel / FullIRB



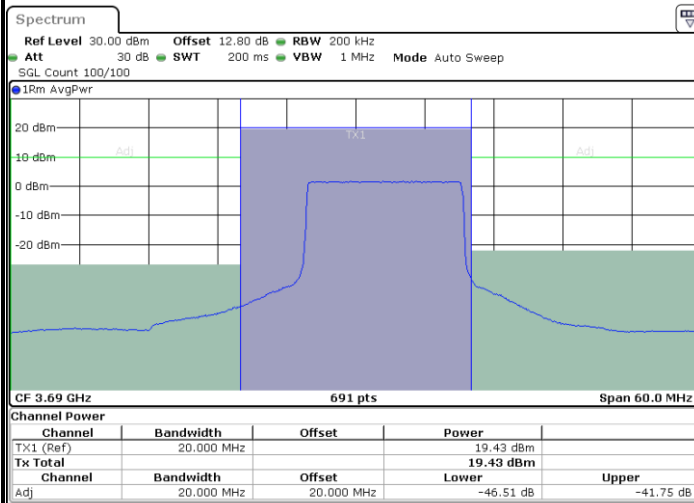
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Middle Channel / FullIRB



Date: 16.APR.2026 20:15:06

Highest Channel / FullIRB



Date: 16.APR.2026 20:15:59

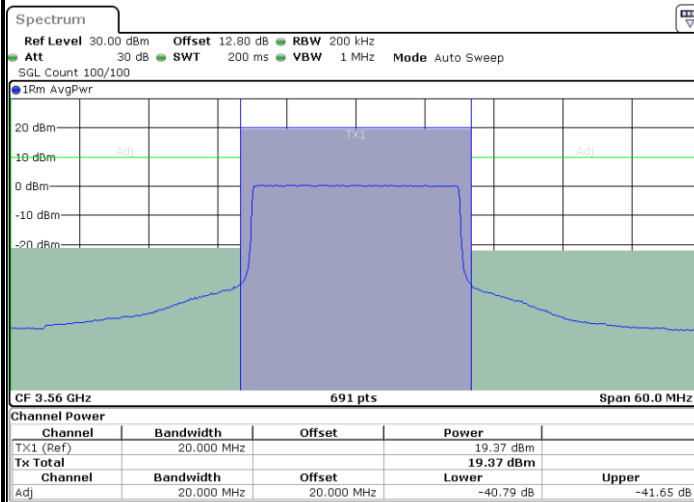
N/A



LTE Band 48 / 20MHz

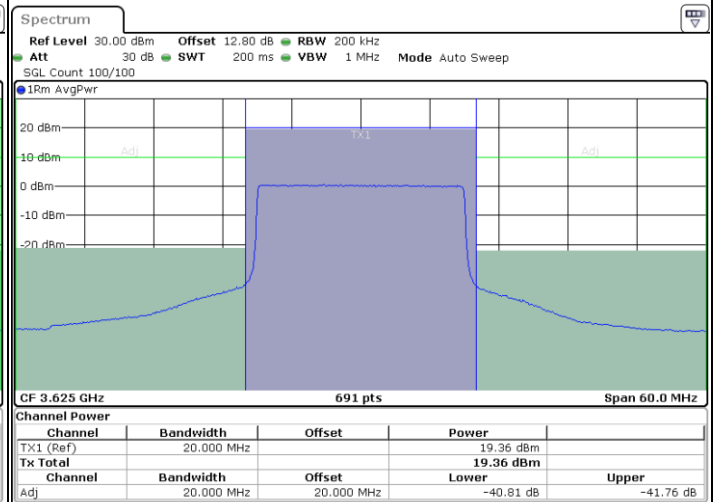
QPSK

Lowest Channel / FullIRB



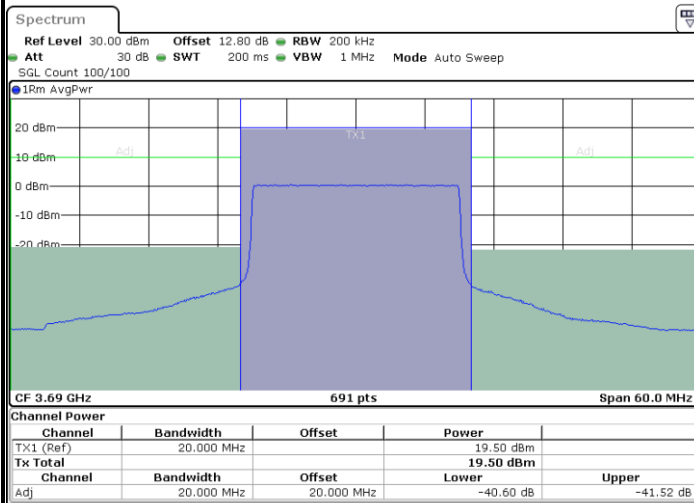
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Middle Channel / FullIRB



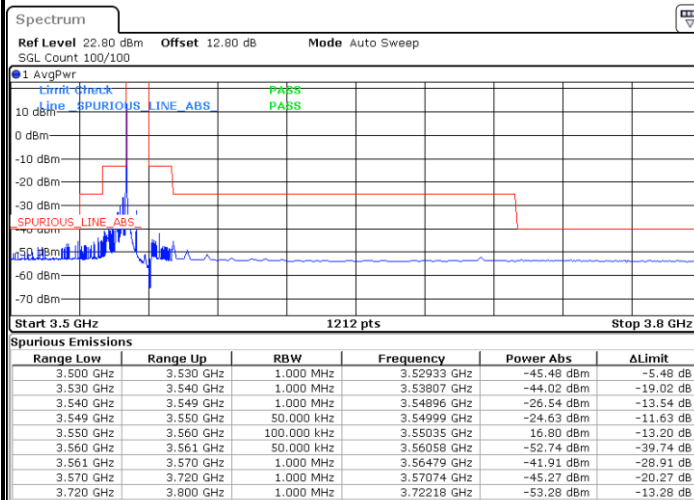
Date: 16.APR.2026 20:17:50

Highest Channel / FullIRB

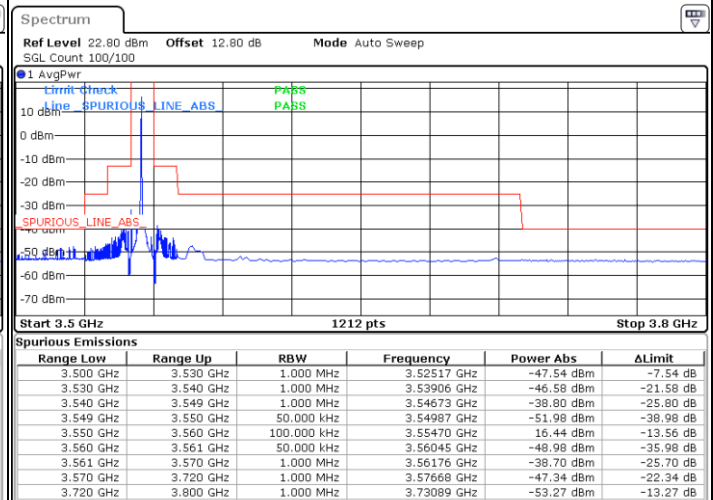


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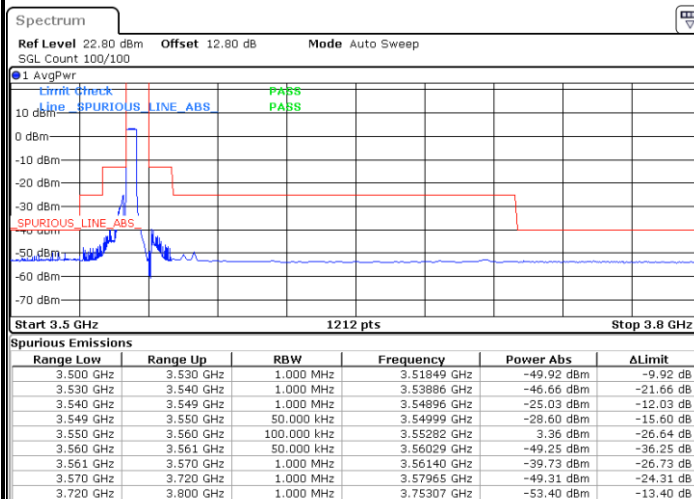
N/A

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

Date: 16.APR.2026 20:20:05

Lowest Channel / 1RBmax

Date: 16.APR.2026 20:36:15

Lowest Channel / FullIRB

Date: 16.APR.2026 20:24:13

N/A

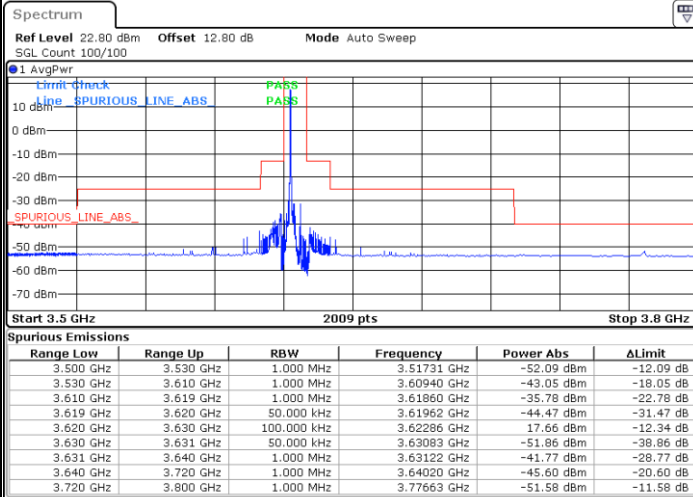


LTE Band 48 / 5MHz

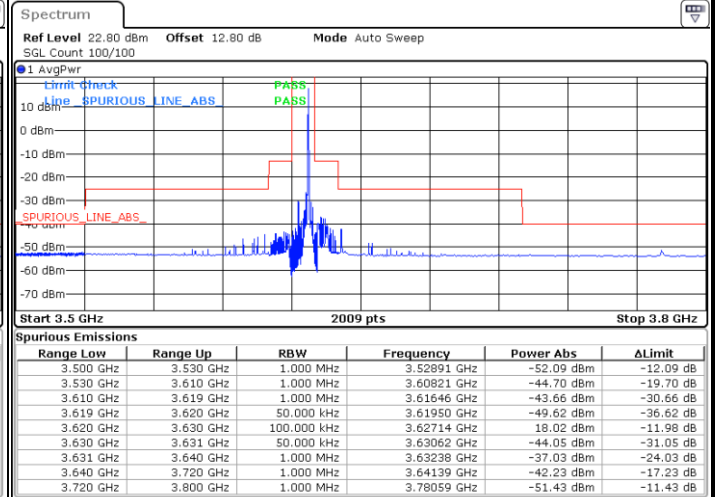
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



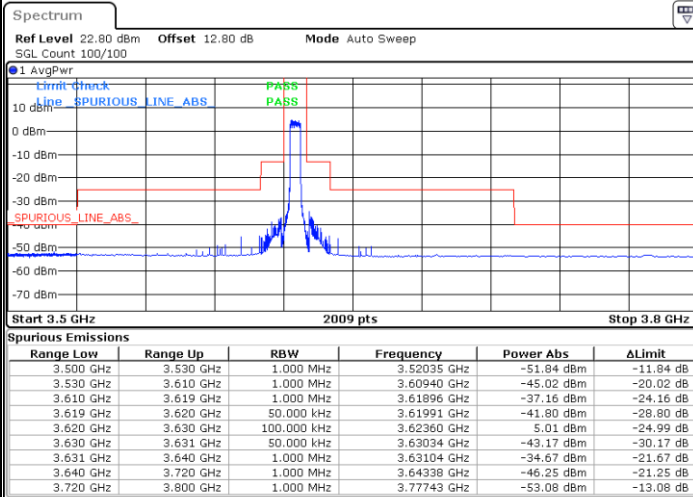
Date: 16.APR.2026 20:21:25



Date: 16.APR.2026 20:37:32

Middle Channel / FullRB

N/A



Date: 16.APR.2026 20:25:32

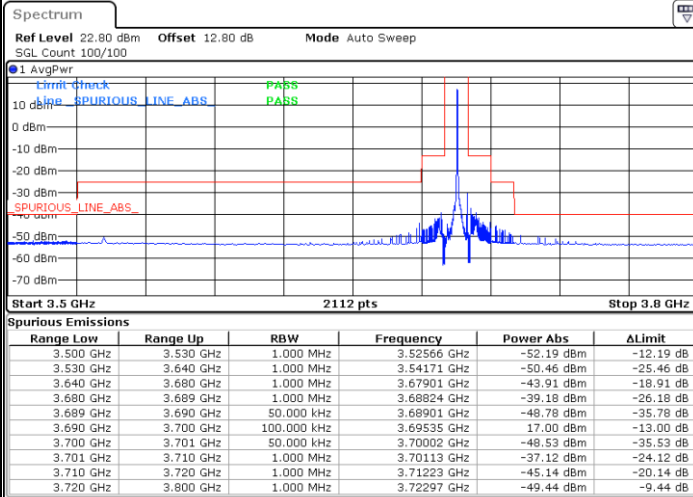


LTE Band 48 / 5MHz

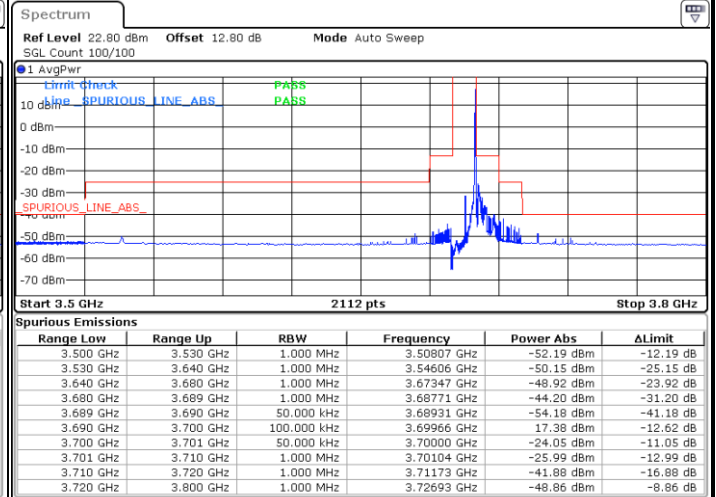
QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax



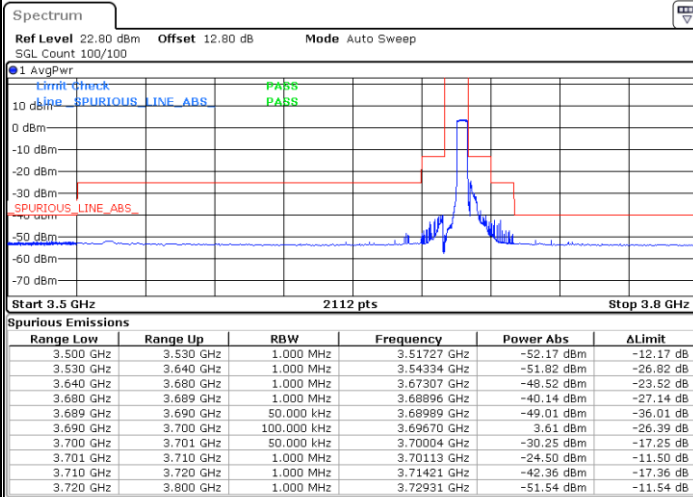
Date: 16.APR.2026 20:22:49



Date: 16.APR.2026 20:38:52

Highest Channel / FullIRB

N/A



Date: 16.APR.2026 20:34:56

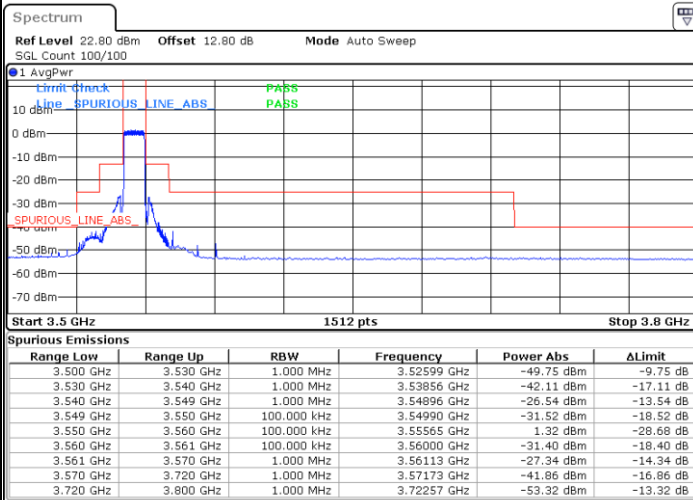


LTE Band 48 / 10MHz

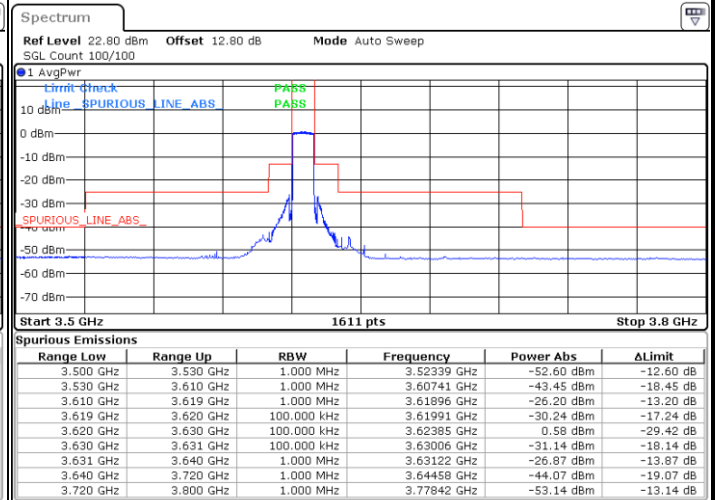
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



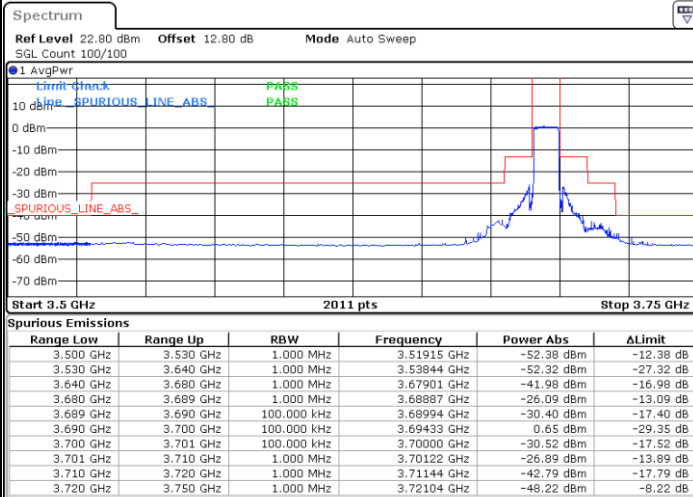
Date: 16.APR.2026 20:40:11



Date: 16.APR.2026 20:41:30

Highest Channel / FullIRB

N/A



Date: 16.APR.2026 20:42:50

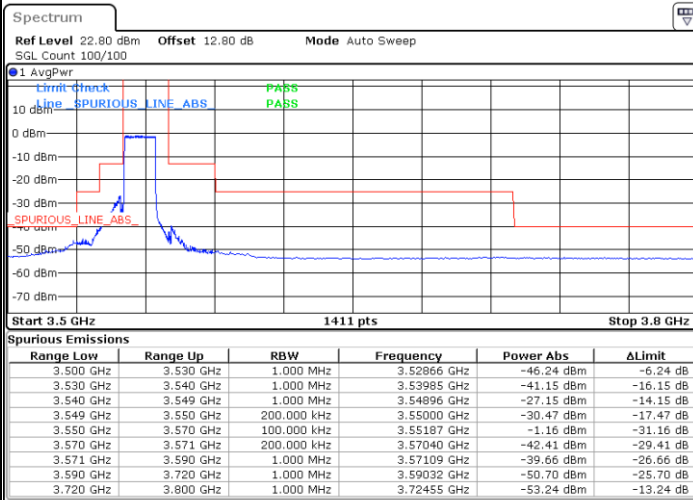


LTE Band 48 / 15MHz

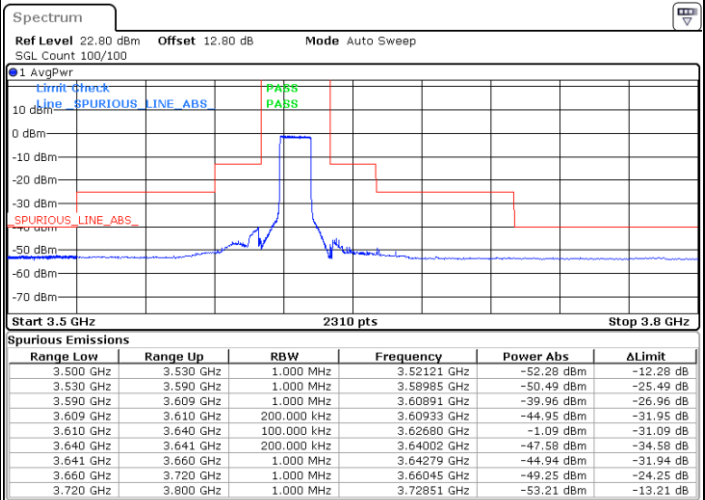
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



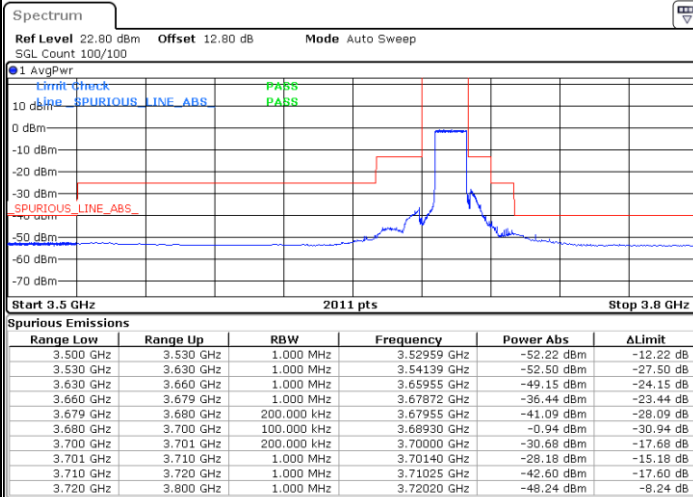
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Date: 16.APR.2026 20:45:32

Highest Channel / FullIRB

N/A



Date: 16.APR.2026 20:58:53

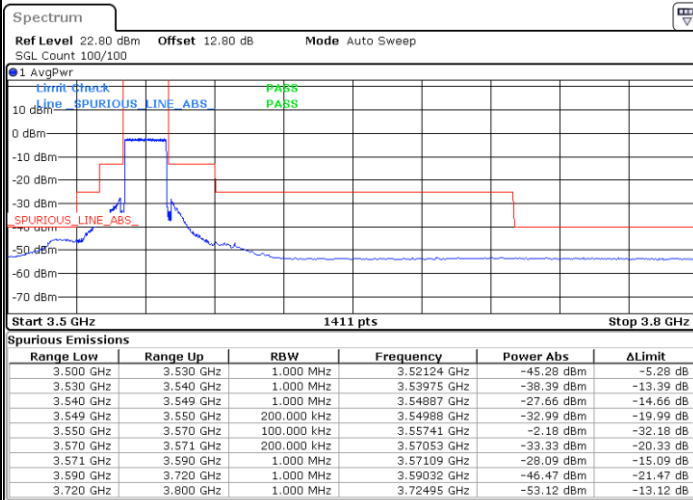


LTE Band 48 / 20MHz

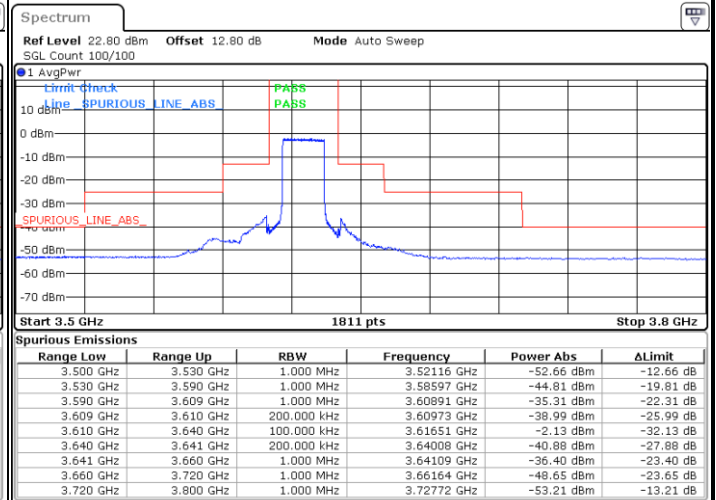
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



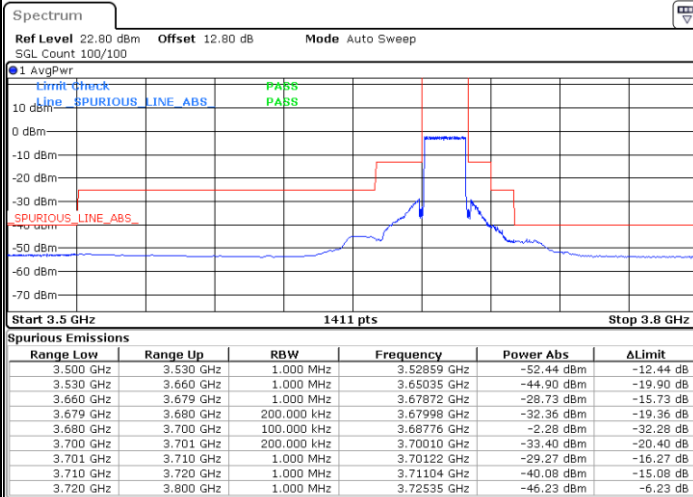
Date: 16.APR.2026 21:00:13



Date: 16.APR.2026 21:01:30

Highest Channel / FullIRB

N/A



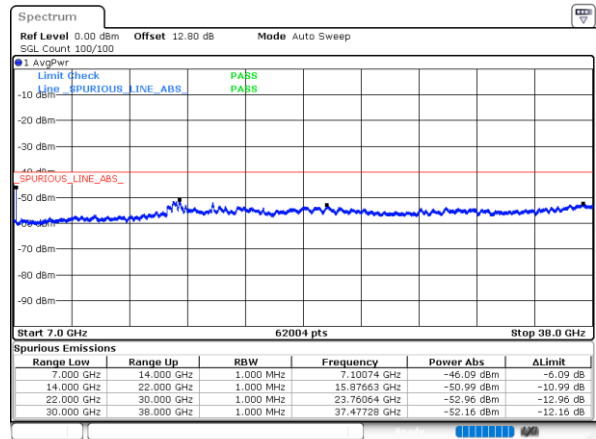
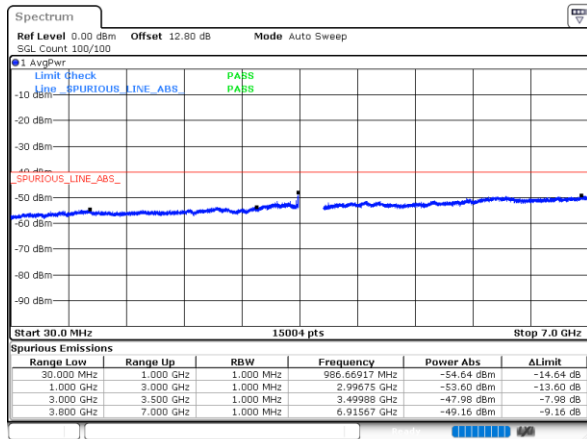
Date: 16.APR.2026 21:02:47



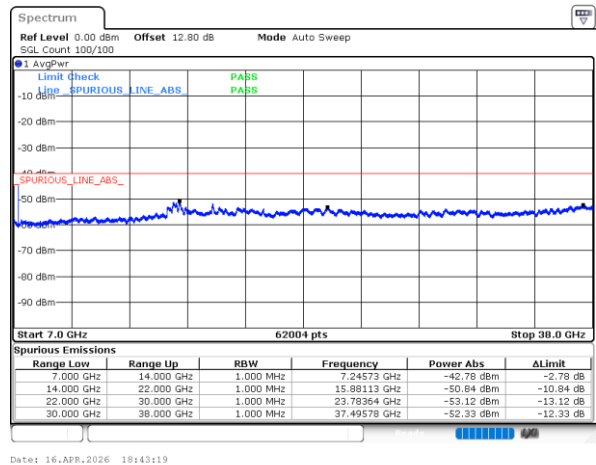
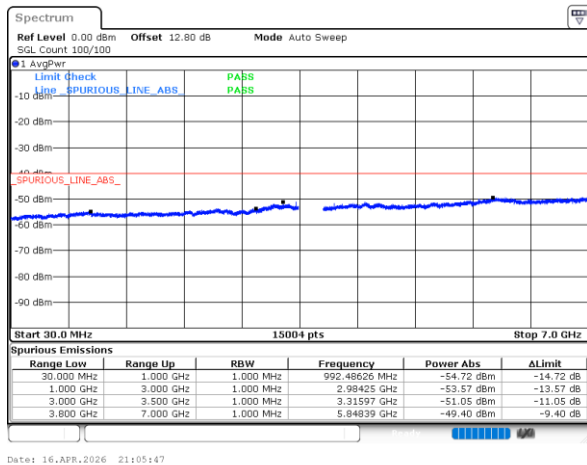
Conducted Spurious Emission

LTE Band 48 / 5MHz

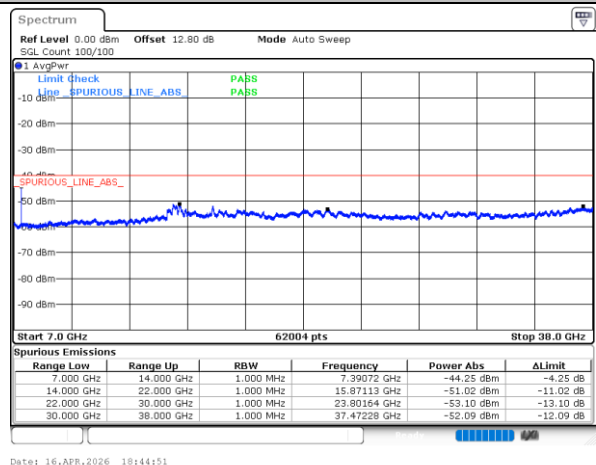
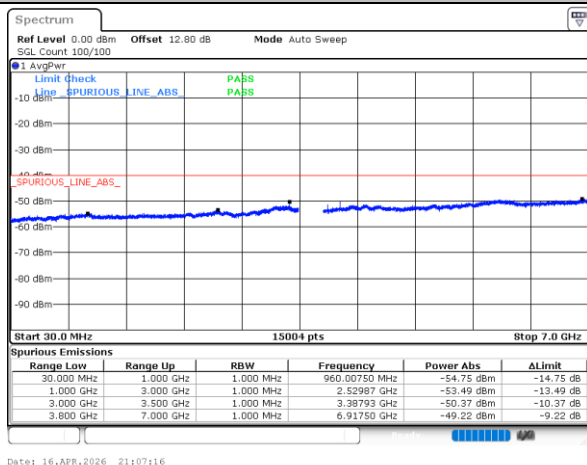
Lowest Channel / QPSK



Middle Channel / QPSK



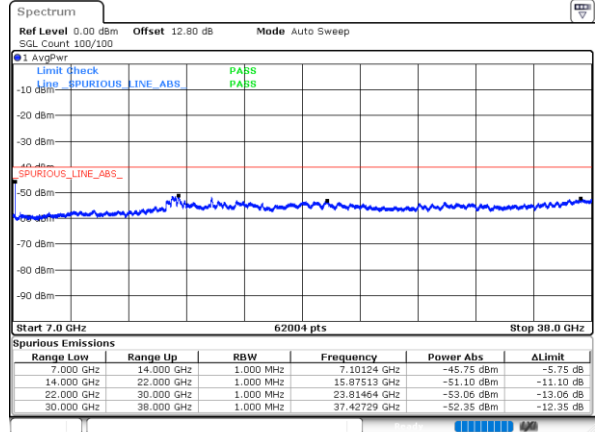
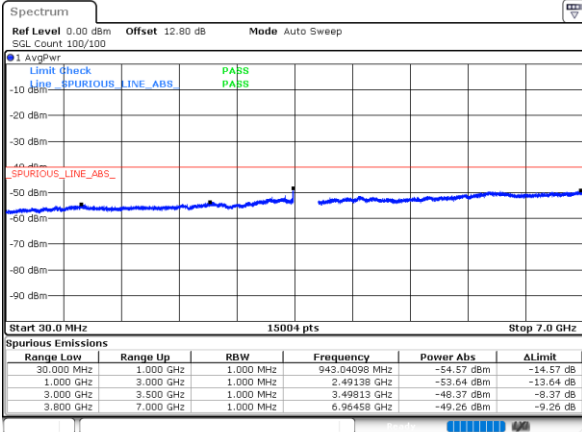
Highest Channel / QPSK



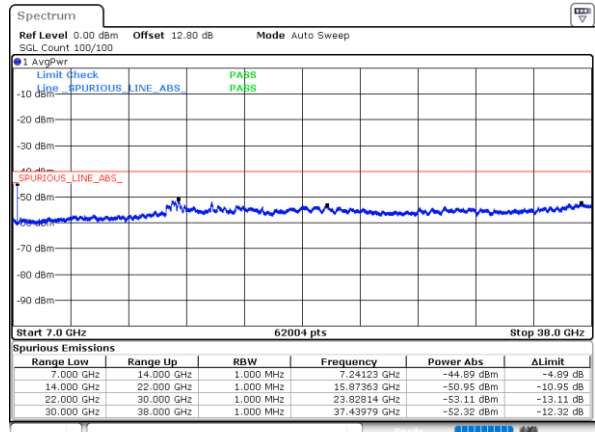
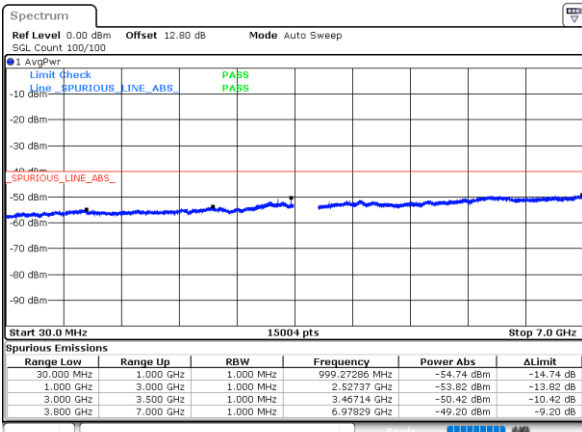


LTE Band 48 / 10MHz

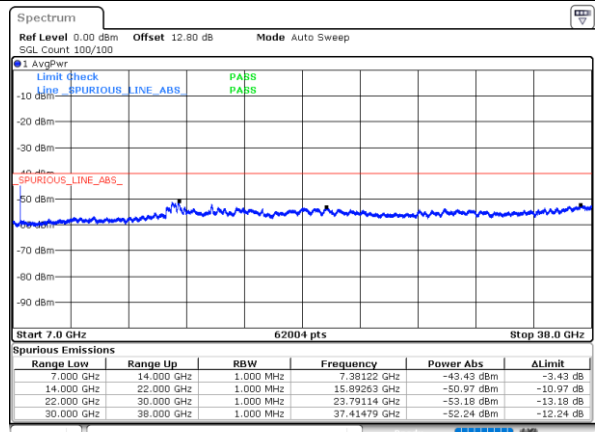
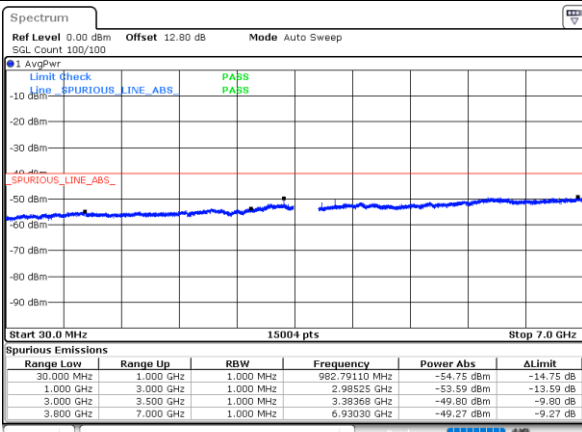
Lowest Channel / QPSK



Middle Channel / QPSK



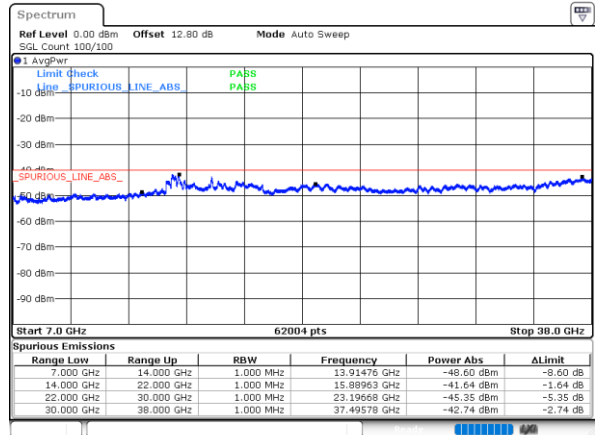
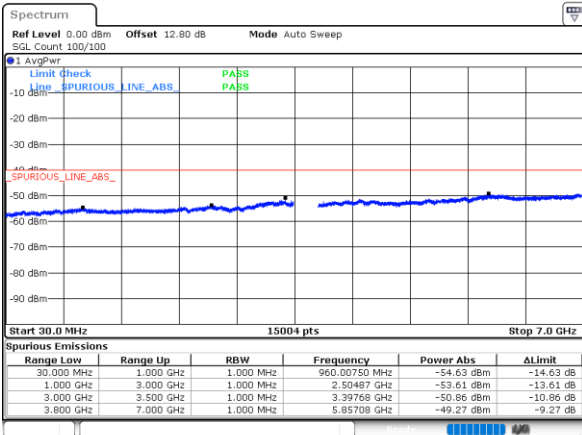
Highest Channel / QPSK



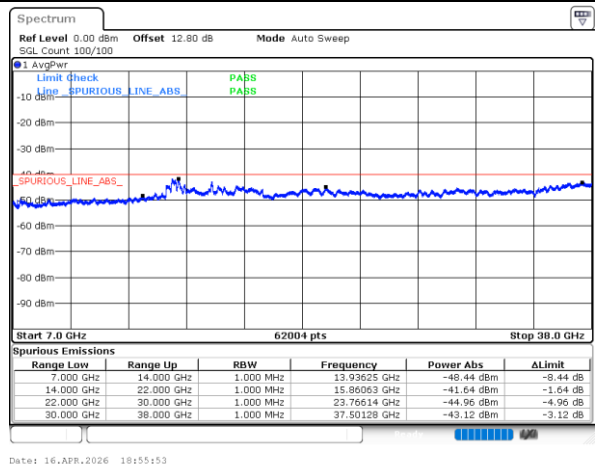
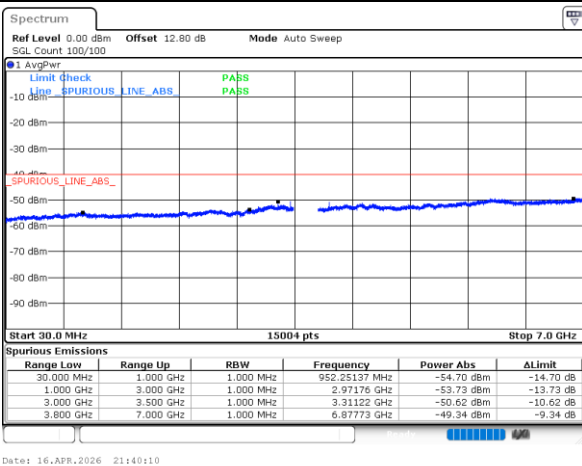


LTE Band 48 / 15MHz

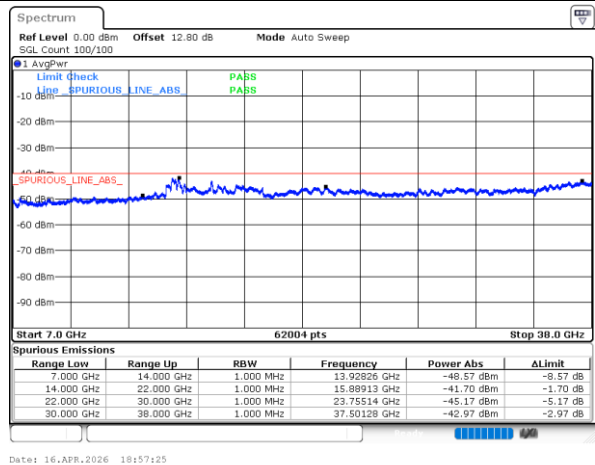
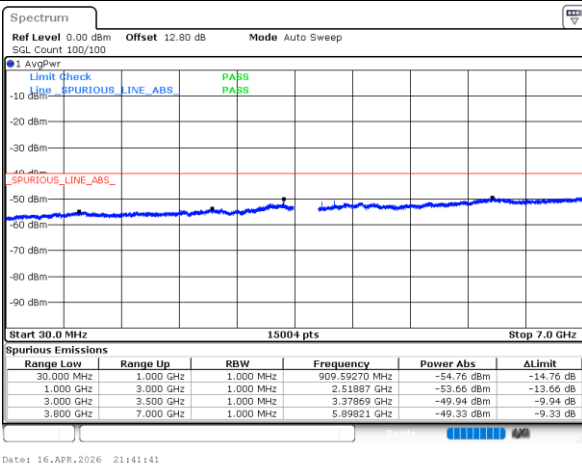
Lowest Channel / QPSK



Middle Channel / QPSK



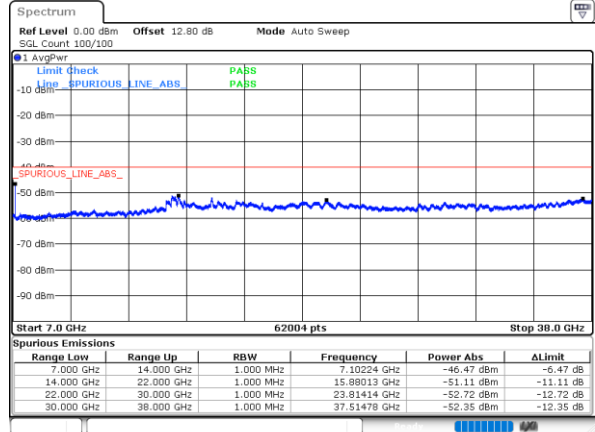
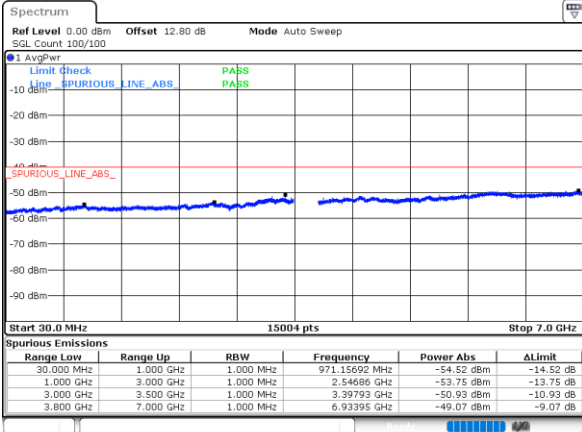
Highest Channel / QPSK



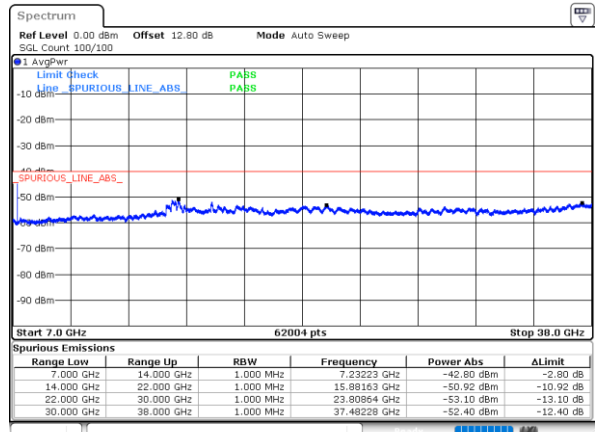
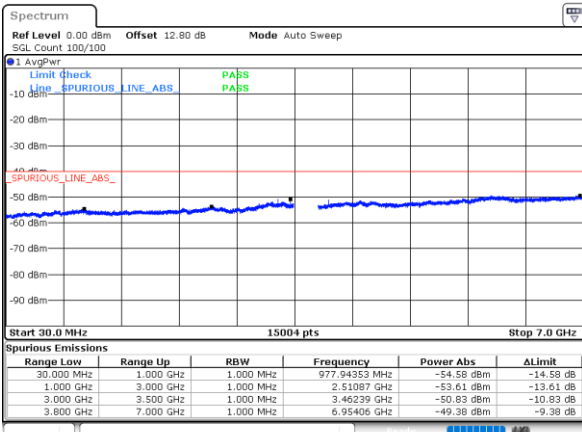


LTE Band 48 / 20MHz

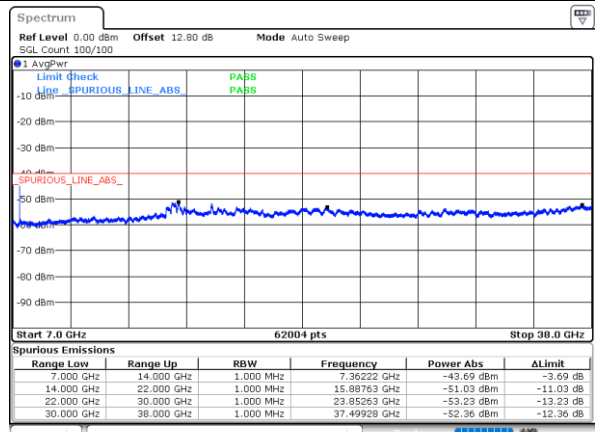
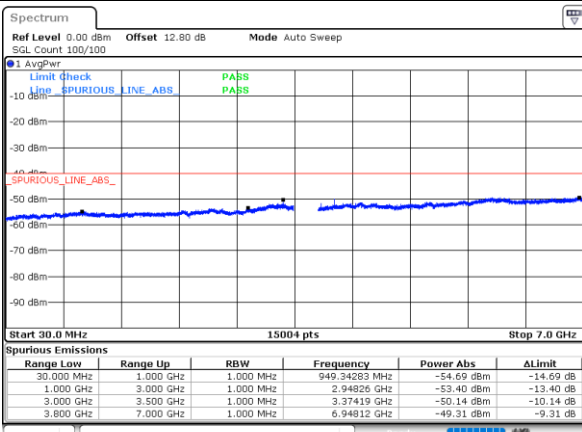
Lowest Channel / QPSK



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	0.0008	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0016	

Note:

1. Normal Voltage = 4 V. ; Minimum Voltage = 3.8 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang、David Dai、Sam Chou	Relative Humidity(%):	63.7~71.1
		Temperature(°C):	18.3~22.8

B1.Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	LTE B48	Part 96	L	14204	-50.37	RMS	40.28	-24.68	0.56	-95.23	28.70	-40.00	-10.37	H	2

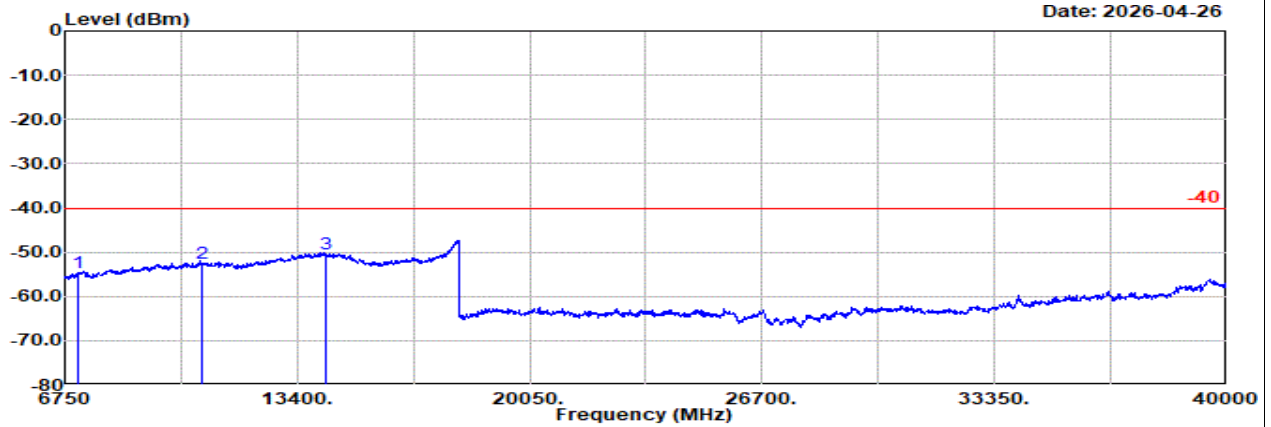


Ant. 2

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L

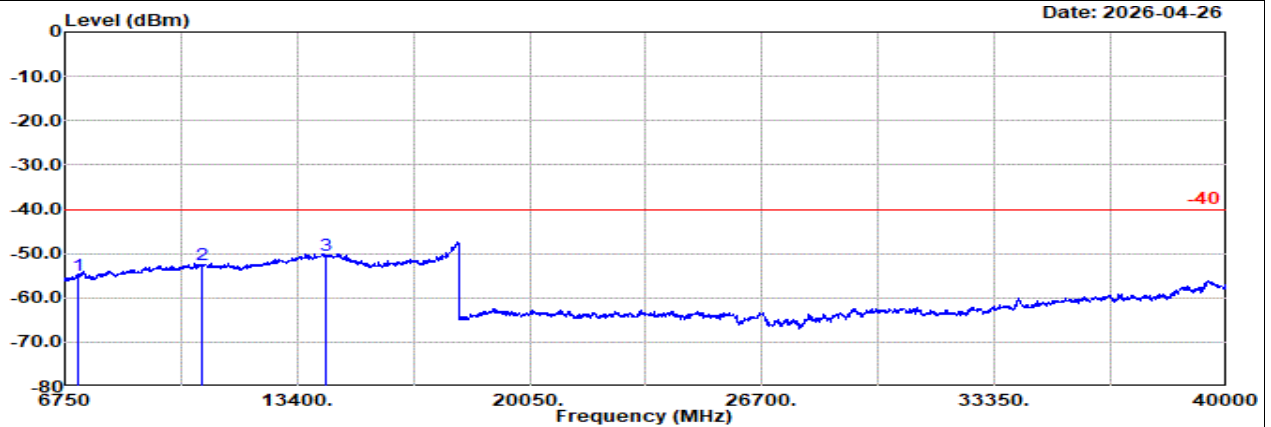


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-54.77	RMS	36.41	-24.45	1.10	-95.23	27.40	-40.00	-14.77	Horizontal
2	10653.00	-52.62	RMS	39.19	-24.91	0.45	-95.23	27.88	-40.00	-12.62	Horizontal
3	14204.00	-50.37	RMS	40.28	-24.68	0.56	-95.23	28.70	-40.00	-10.37	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE B48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm			dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-54.85	RMS	36.41	-24.45	1.10	-95.23	27.32	-40.00	-14.85	Vertical
2	10653.00	-52.50	RMS	39.19	-24.91	0.45	-95.23	28.00	-40.00	-12.50	Vertical
3	14204.00	-50.39	RMS	40.28	-24.68	0.56	-95.23	28.68	-40.00	-10.39	Vertical

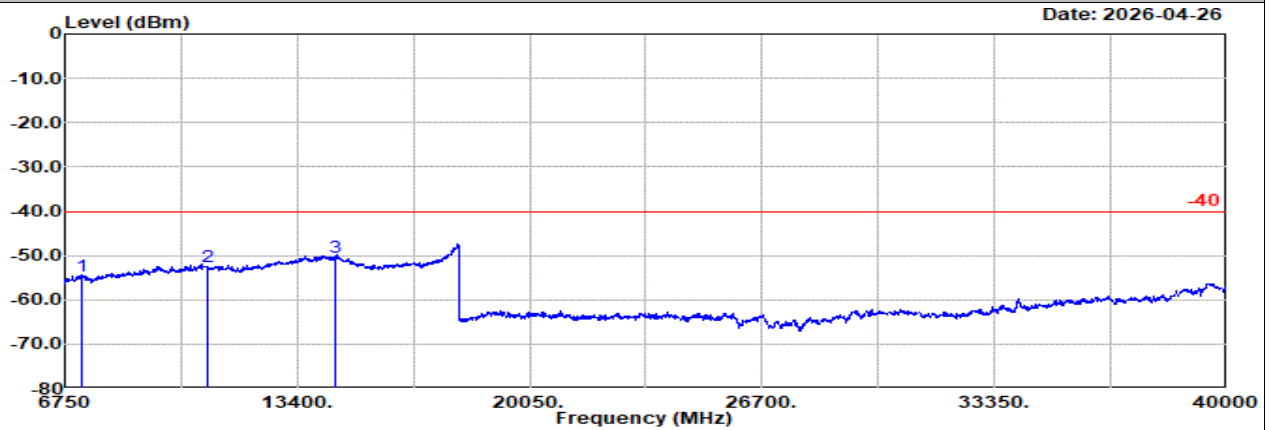


Ant. 2

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

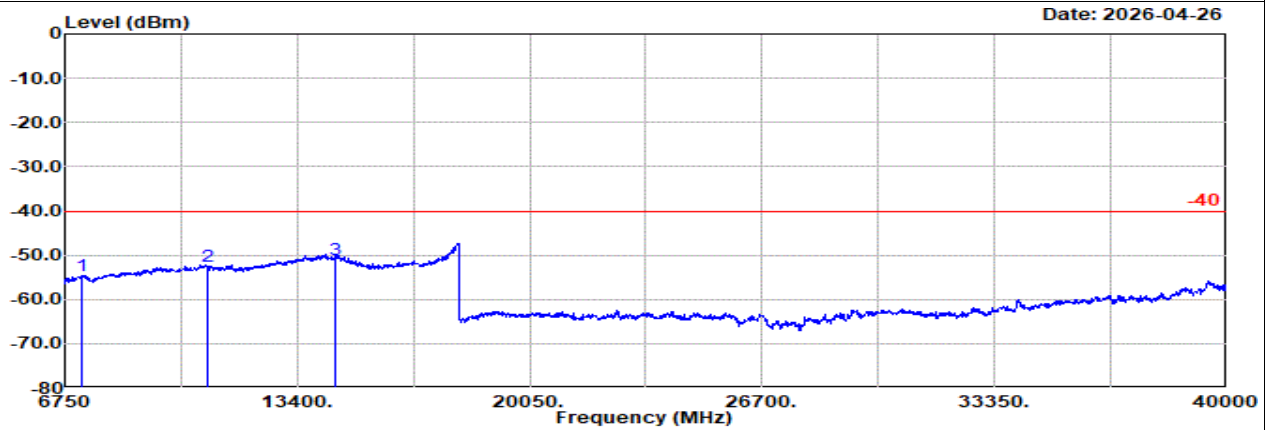


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	l				g		
	MHz	dBm		dB/m	dB	dB		dBuV	dBm	dB	
1	7232.00	-54.56	RMS	36.93	-24.45	1.00	-95.23	27.19	-40.00	-14.56	Horizontal
2	10848.00	-52.58	RMS	39.00	-24.90	0.44	-95.23	28.11	-40.00	-12.58	Horizontal
3	14464.00	-50.47	RMS	39.96	-24.73	0.51	-95.23	29.02	-40.00	-10.47	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE B48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	l			g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-54.55	RMS	36.93	-24.45	1.00	-95.23	27.20	-40.00	-14.55	Vertical
2	10848.00	-52.52	RMS	39.00	-24.90	0.44	-95.23	28.17	-40.00	-12.52	Vertical
3	14464.00	-50.99	RMS	39.96	-24.73	0.51	-95.23	28.50	-40.00	-10.99	Vertical

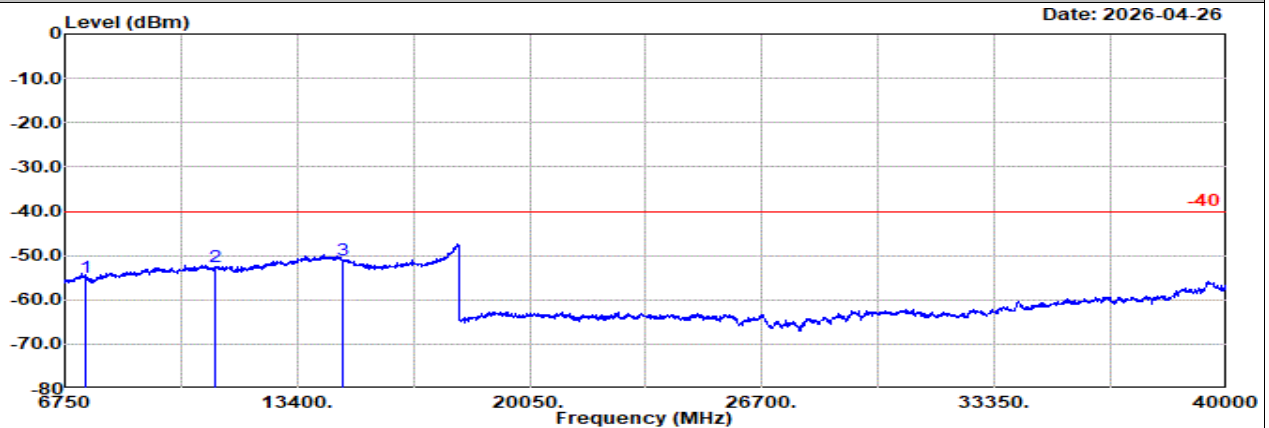


Ant. 2

Part 96 Mode 1

LTE B48 20M Ch56640 1RB0 QPSK

H

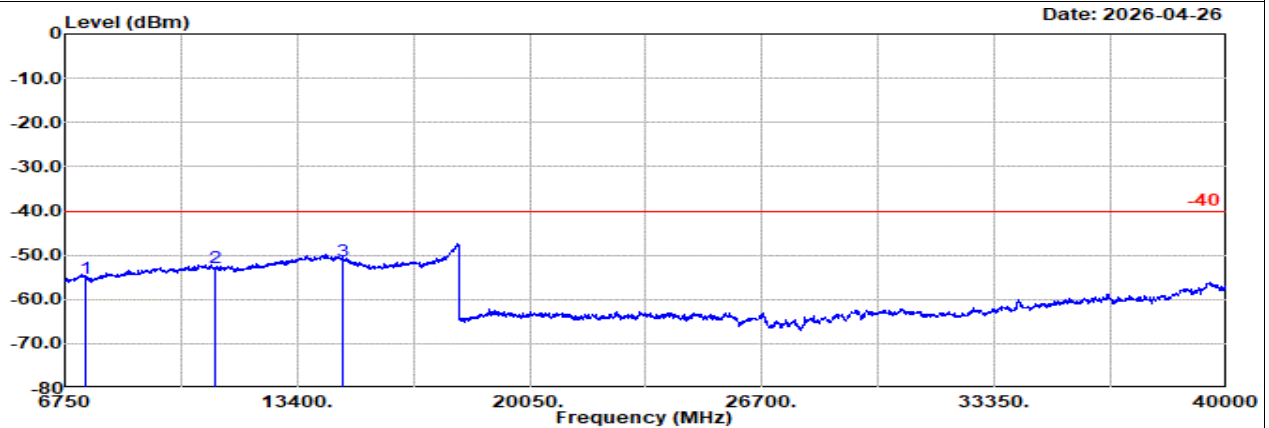


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE B48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB			dBuV	dBm	dB	
1	7362.00	-55.04	RMS		36.55	-24.42	0.82	-95.23	27.24	-40.00	-15.04	Horizontal
2	11043.00	-52.49	RMS		38.90	-24.91	0.43	-95.23	28.32	-40.00	-12.49	Horizontal
3	14724.00	-50.89	RMS		39.90	-24.86	0.47	-95.23	28.83	-40.00	-10.89	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE B48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB			dBuV	dBm	dB	
1	7362.00	-55.34	RMS		36.55	-24.42	0.82	-95.23	26.94	-40.00	-15.34	Vertical
2	11043.00	-52.86	RMS		38.90	-24.91	0.43	-95.23	27.95	-40.00	-12.86	Vertical
3	14724.00	-51.19	RMS		39.90	-24.86	0.47	-95.23	28.53	-40.00	-11.19	Vertical

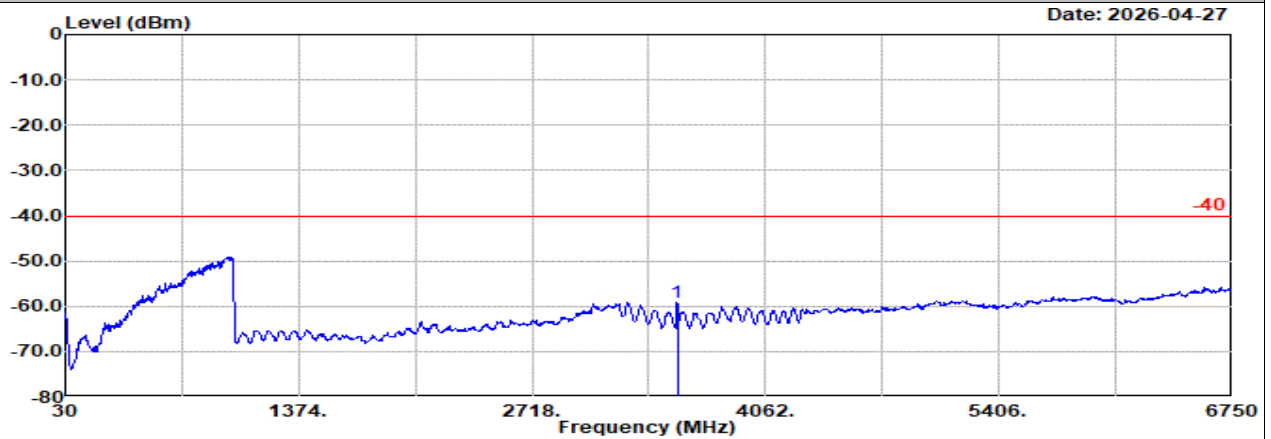


Ant. 2

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L



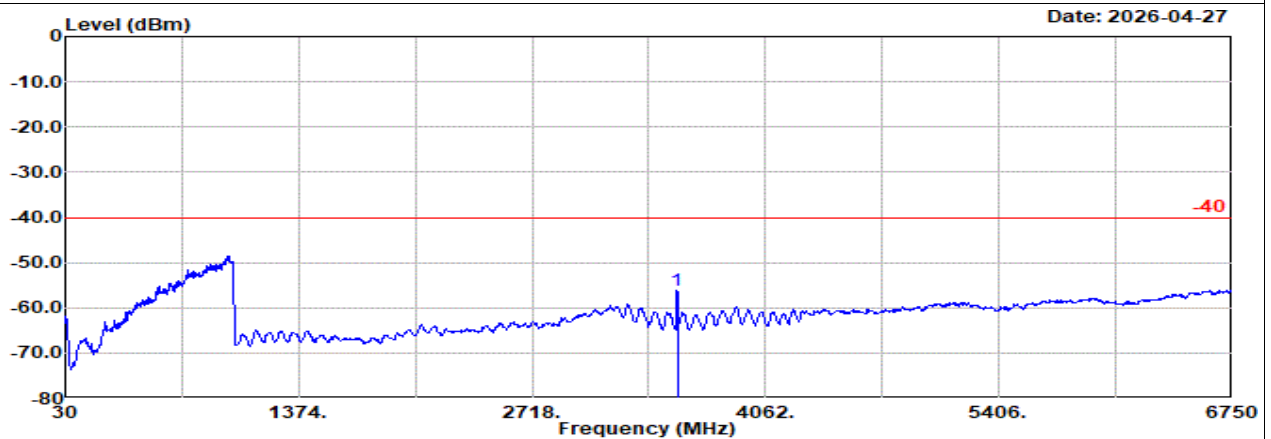
Site : 03CH20-HY

Condition: -40 3m HF_9120D_02360_251105 Horizontal

: LTE B48 20M Ch55340 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm									
1	3553.00	-59.24	RMS	29.51	-26.06	0.00	-95.23	32.54	-40.00	-19.24	Horizontal



Site : 03CH20-HY

Condition: -40 3m HF_9120D_02360_251105 Vertical

: LTE B48 20M Ch55340 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm									
1	3553.00	-56.10	RMS	29.51	-26.06	0.00	-95.23	35.68	-40.00	-16.10	Vertical