



FCC RADIO TEST REPORT

FCC ID : PY7-52715J
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII
a/b/g/n/ac/ax, NFC and GNSS
Brand Name : Sony
Applicant : Sony Corporation
1-7-1 Konan, Minato-ku , Tokyo, Japan 108-0075
Manufacturer : Sony Corporation
1-7-1 Konan, Minato-ku , Tokyo, Japan 108-0075
Standard : FCC 47 CFR Part 2, 27

The product was received on Feb. 03, 2026 and testing was performed from Mar. 28, 2026 to Apr. 10, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.26-2015 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.

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
FG620306B	01	Initial issue of report	Jun. 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	-
	§27.50 (c)(10)	Effective Radiated Power (Band 12)	Pass	
	§27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4)		
3.3	§27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 4) (Band 12)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 41)		
3.6	§2.1051 §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 4) (Band 12)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 41)		
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 4) (Band 12)	Pass	17.38 dB under the limit at 7503.00 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 41)		

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: Keven Cheng**Report Producer: Shiori Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Specification subject to this standard	
General Specs	GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC and BDS/Galileo/GLONASS/GPS.
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: LOOP Antenna

Support band and evaluated information	
Supported band	B4, B12, B41
Evaluated and Tested band	B4, B12, B41

FDD/TDD band Power Class				
	SISO PC3			
B4	V			
B12	V			
B41	V			

Max Antenna Gain information(dBi)							
Band	Ant 0	Ant 1					Main Ant. #
B4		0.7					1
B12	-2.6						0
B41	0.6						0

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	0.27	SOBBBAG0AWD00014 SOBBBAG0AWD00011	Conducted Measurement
	0.27	SOBBBAG0AWD0001A SOBBBBGJ38C00022	ERP/EIRP
	0.27	SOBBBAG0AWC00011 SOBBBAG0AWC00073	Radiated Spurious Emission

Specification of Accessory		
AC Adapter	Brand Name	Sony
	Model Name	XQZ-UC1
Earphone	Brand Name	Sony
	Model Name	MDR-EX15AP
USB Cable 1	Brand Name	Sony
	Model Name	XQZ-UB1
USB Cable 2	Brand Name	Sony
	Model Name	UCB20

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



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH12-HY
Test Engineer	Cotty Hsu	Tim Lee, Wilson Wu, and Gerry Wei
Temperature (°C)	22.5~22.9	20~25
Relative Humidity (%)	53.2~55.2	50~60

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

FCC Designation No.: TW3786

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ 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 adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

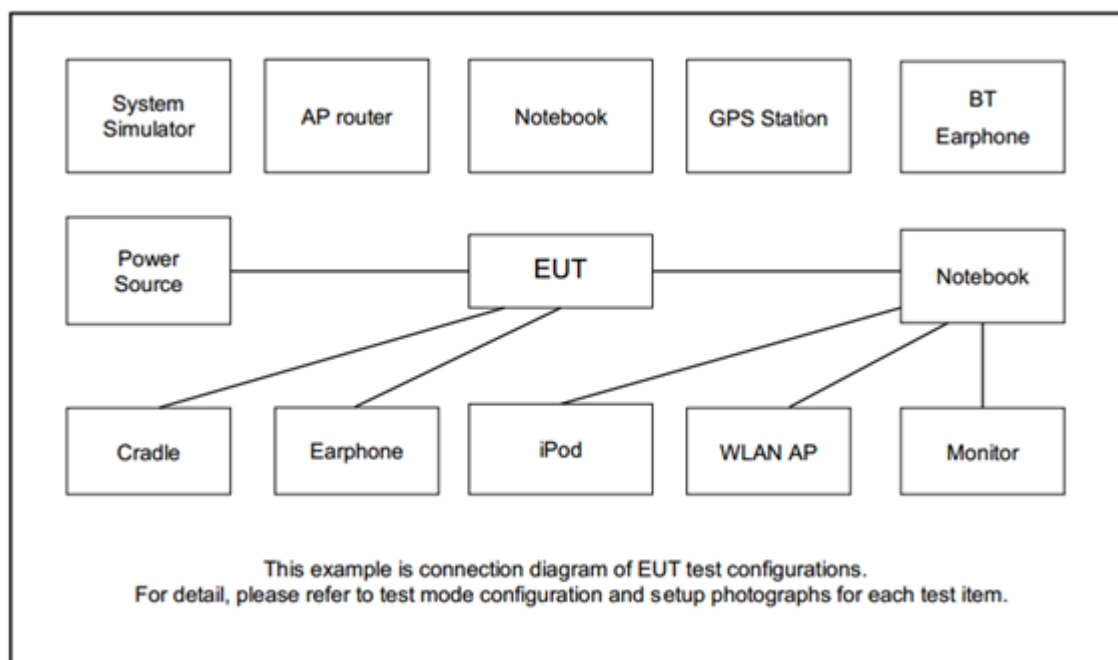
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C	All	1, Half, Full	L, M, H
EIRP	A, B, C	All	1, Half, Full	L, M, H
PAR	A, B, C	Max	Full	M
Bandwidth	A, B	All	Full	M
CBE	A	All	1RB Full	L, H
CSE	A	All	1RB	L, M, H
Frequency Stability	A	10 MHz	Full	M
RSE	A	Max	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. One representative bandwidth is selected to perform PAR and frequency stability.
4. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations, Output power measurements were measured on QPSK/16QAM/64QAMmodulations. For Other conducted test items were measured and the worst case is while QPSK/16QAM was set at or above target power, the report only performed QPSK/16QAM test results.

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.	Base Station	Rohde & Schwarz	CMU200	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

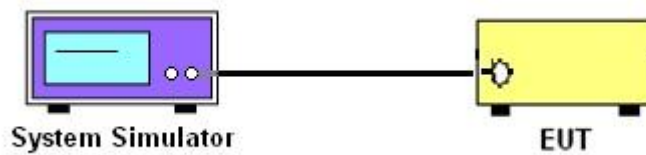
3 Conducted Test Items

3.1 Measuring Instruments

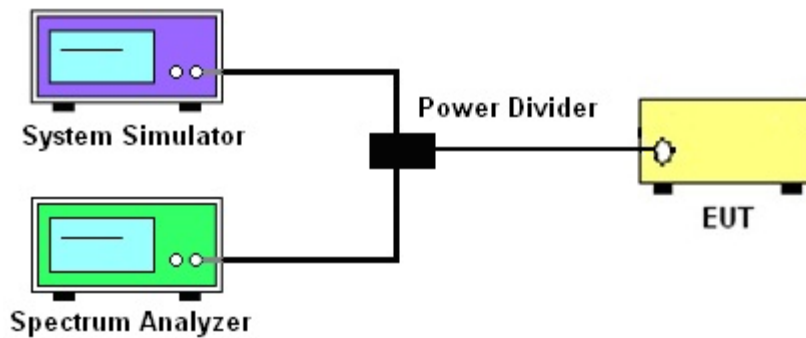
See list of measuring instruments of this test report.

3.1.1 Test Setup

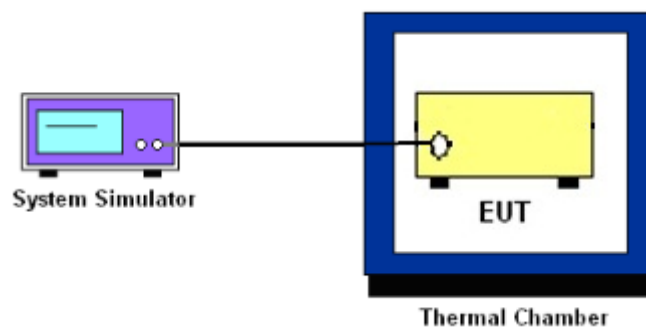
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12,

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

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



3.3 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.

Note: The smallest unit forming an OFDMA signal is the subcarrier, and each subcarrier carries an equal amount of energy. Different bandwidths vary only in the number of subcarriers they contain. Therefore, for evaluation purposes, the PAPR (Peak-to-Average Power Ratio) is tested and report presents the test results conducted at the specifically bandwidth.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ 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.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts})$

For LTE Band 41

The other 40 dB, and 55 dB have additionally applied same calculation above.



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

For LTE Band 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

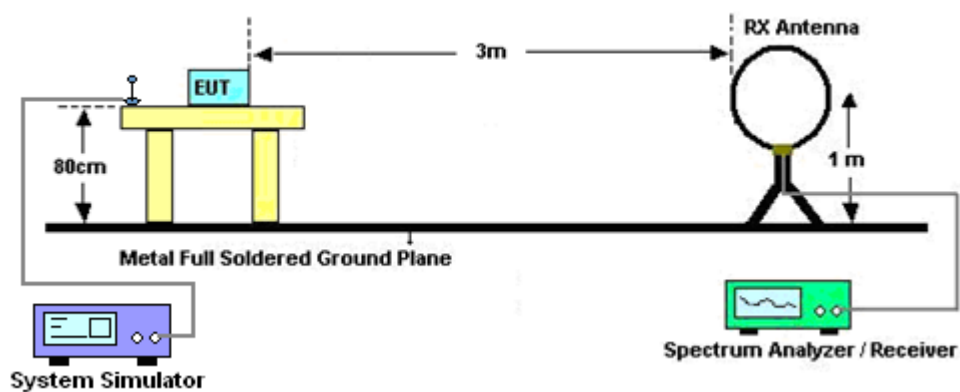
4 Radiated Test Items

4.1 Measuring Instruments

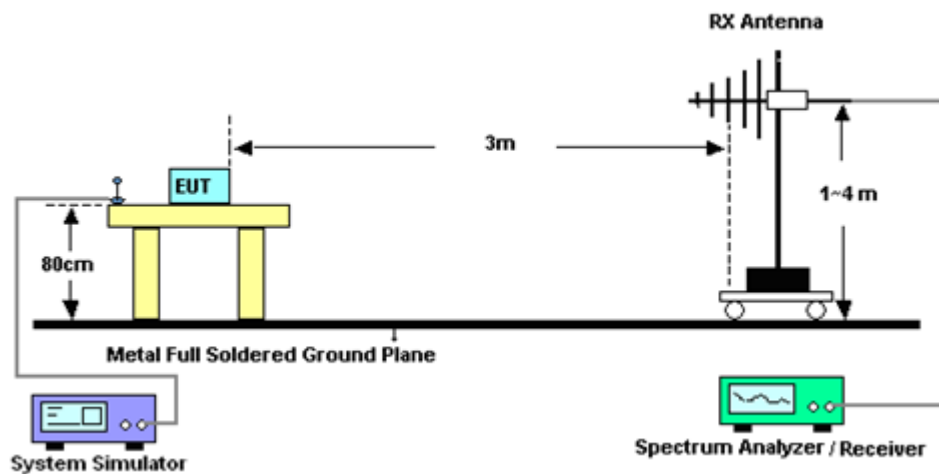
See list of measuring instruments of this test report.

4.1.1 Test Setup

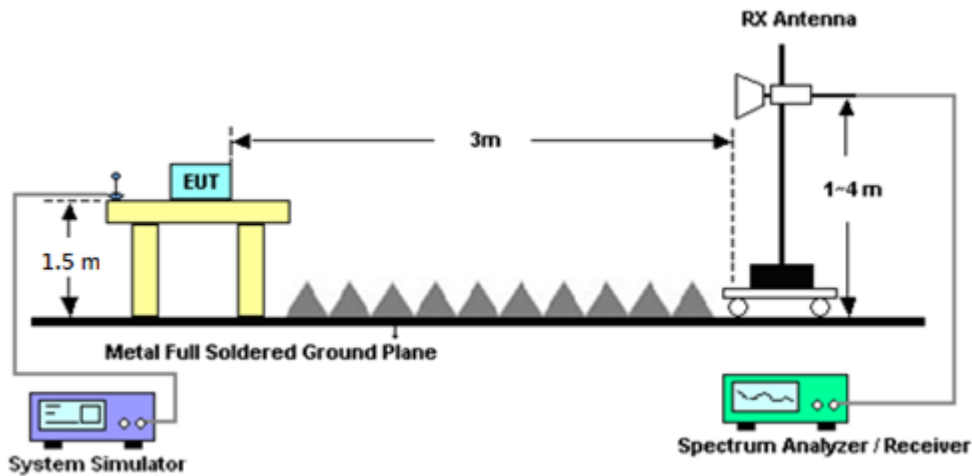
For radiated test below 30MHz



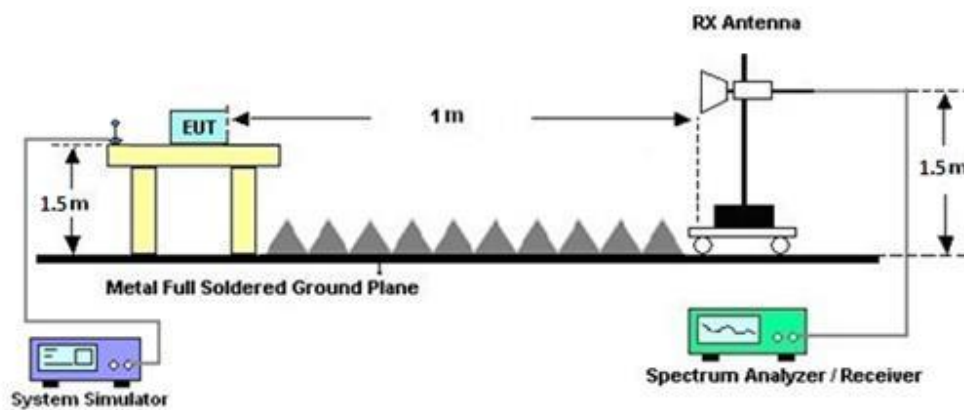
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

For LTE Band 41

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 $55 + 10 \log (P)$ dB.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. 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
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamplifier Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



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	Apr. 09, 2026~ Apr. 10, 2026	Dec. 10, 2026	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Apr. 09, 2026~ Apr. 10, 2026	Nov. 25, 2026	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 02, 2025	Apr. 09, 2026~ Apr. 10, 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Dec. 17, 2025	Apr. 09, 2026~ Apr. 10, 2026	Dec. 16, 2026	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Sep. 09, 2025	Apr. 09, 2026~ Apr. 10, 2026	Sep. 08, 2026	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 08, 2025	Apr. 09, 2026~ Apr. 10, 2026	Sep. 07, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Apr. 09, 2026~ Apr. 10, 2026	Jul. 01, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz~40GHz	Jul. 02, 2025	Apr. 09, 2026~ Apr. 10, 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2025	Apr. 09, 2026~ Apr. 10, 2026	Dec. 01, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN111	1.53GHz Low Pass Filter	Nov. 04, 2025	Apr. 09, 2026~ Apr. 10, 2026	Nov. 03, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Mar. 11, 2026	Apr. 09, 2026~ Apr. 10, 2026	Mar. 10, 2027	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Oct. 31, 2025	Apr. 09, 2026~ Apr. 10, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Oct. 31, 2025	Apr. 09, 2026~ Apr. 10, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM- KM-1000	240905	30MHz~40GHz	Oct. 31, 2025	Apr. 09, 2026~ Apr. 10, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/ 4	9kHz~30MHz	Oct. 01, 2025	Apr. 09, 2026~ Apr. 10, 2026	Sep. 30, 2026	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 26, 2025	Apr. 09, 2026~ Apr. 10, 2026	Aug. 25, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 09, 2026~ Apr. 10, 2026	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 09, 2026~ Apr. 10, 2026	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278353	LTE FDD/TDD DLCA/ULCA	Oct. 28, 2025	Apr. 09, 2026~ Apr. 10, 2026	Oct. 27, 2026	Radiation (03CH12-HY)
Radio Communication Test Station	Anritsu	MT8000A	6262261912	N/A	May 07, 2025	Apr. 09, 2026~ Apr. 10, 2026	May 06, 2026	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 09, 2026~ Apr. 10, 2026	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 09, 2026~ Apr. 10, 2026	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Mar. 28, 2026~ Apr. 02, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Mar. 28, 2026~ Apr. 02, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18G Hz	Oct. 16, 2025	Mar. 28, 2026~ Apr. 02, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Mar. 28, 2026~ Apr. 02, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 12, 2025	Mar. 28, 2026~ Apr. 02, 2026	May 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Mar. 28, 2026~ Apr. 02, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Mar. 28, 2026~ Apr. 02, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	-10 ~ 50°C / 20 ~ 95%RH	Nov. 04,2025	Mar. 28, 2026~ Apr. 02, 2026	Nov. 03,2026	Conducted (TH05-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and ERI/EIRP)

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	14.44	14.46	14.44	15.22	0.0333
20	1	49		14.43	14.41	14.39		
20	1	99		14.37	14.38	14.34		
20	50	0		14.49	14.47	14.47		
20	50	24		14.52	14.47	14.46		
20	50	50		14.48	14.37	14.44		
20	100	0		14.48	14.38	14.43		
20	1	0	16-QAM	14.99	14.82	14.77	15.69	0.0371
20	1	49		14.71	14.71	14.67		
20	1	99		14.72	14.72	14.60		
20	50	0		14.50	14.49	14.45		
20	50	24		14.51	14.51	14.47		
20	50	50		14.45	14.38	14.43		
20	100	0		14.46	14.36	14.45		
20	1	0	64-QAM	14.73	14.72	14.57	15.43	0.0349
20	1	49		14.64	14.69	14.57		
20	1	99		14.64	14.66	14.48		
20	50	0		14.50	14.49	14.48		
20	50	24		14.51	14.50	14.46		
20	50	50		14.47	14.36	14.44		
20	100	0		14.49	14.41	14.43		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	14.40	14.40	14.37	15.19	0.0330
15	1	37		14.42	14.34	14.37		
15	1	74		14.42	14.35	14.31		
15	36	0		14.49	14.48	14.47		
15	36	20		14.47	14.49	14.43		
15	36	39		14.48	14.37	14.42		
15	75	0		14.49	14.37	14.45		
15	1	0	16-QAM	14.76	14.75	14.66	15.46	0.0352
15	1	37		14.76	14.73	14.62		
15	1	74		14.68	14.66	14.64		
15	36	0		14.48	14.44	14.46		
15	36	20		14.50	14.45	14.46		
15	36	39		14.48	14.38	14.43		
15	75	0		14.48	14.38	14.45		
15	1	0	64-QAM	14.61	14.64	14.62	15.34	0.0342
15	1	37		14.55	14.59	14.59		
15	1	74		14.59	14.54	14.57		
15	36	0		14.47	14.48	14.44		
15	36	20		14.49	14.47	14.43		
15	36	39		14.47	14.37	14.43		
15	75	0		14.46	14.38	14.44		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	14.53	14.54	14.53	15.36	0.0344
10	1	25		14.63	14.61	14.57		
10	1	49		14.52	14.51	14.50		
10	25	0		14.62	14.61	14.60		
10	25	12		14.66	14.64	14.60		
10	25	25		14.61	14.62	14.58		
10	50	0		14.64	14.64	14.58		
10	1	0	16-QAM	14.93	14.89	14.86	15.68	0.0370
10	1	25		14.95	14.98	14.84		
10	1	49		14.93	14.92	14.89		
10	25	0		14.66	14.62	14.61		
10	25	12		14.71	14.64	14.63		
10	25	25		14.64	14.60	14.61		
10	50	0		14.62	14.62	14.60		
10	1	0	64-QAM	14.84	14.76	14.72	15.58	0.0361
10	1	25		14.88	14.88	14.80		
10	1	49		14.87	14.75	14.67		
10	25	0		14.64	14.65	14.61		
10	25	12		14.69	14.68	14.65		
10	25	25		14.66	14.63	14.59		
10	50	0		14.64	14.63	14.61		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	14.56	14.52	14.49	15.35	0.0343
5	1	12		14.63	14.60	14.59		
5	1	24		14.56	14.52	14.50		
5	12	0		14.61	14.60	14.56		
5	12	7		14.65	14.62	14.58		
5	12	13		14.61	14.60	14.57		
5	25	0		14.61	14.60	14.56		
5	1	0	16-QAM	14.92	14.73	14.81	15.68	0.0370
5	1	12		14.98	14.89	14.92		
5	1	24		14.82	14.82	14.85		
5	12	0		14.68	14.64	14.59		
5	12	7		14.71	14.66	14.64		
5	12	13		14.64	14.62	14.62		
5	25	0		14.62	14.65	14.60		
5	1	0	64-QAM	14.70	14.66	14.68	15.53	0.0357
5	1	12		14.83	14.76	14.82		
5	1	24		14.73	14.75	14.71		
5	12	0		14.68	14.64	14.61		
5	12	7		14.73	14.66	14.64		
5	12	13		14.66	14.63	14.59		
5	25	0		14.63	14.60	14.60		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	14.55	14.51	14.47	15.34	0.0342
3	1	8		14.63	14.60	14.60		
3	1	14		14.52	14.50	14.48		
3	8	0		14.61	14.60	14.56		
3	8	4		14.62	14.64	14.59		
3	8	7		14.61	14.62	14.58		
3	15	0		14.60	14.61	14.56		
3	1	0	16-QAM	14.86	14.82	14.83	15.68	0.0370
3	1	8		14.88	14.98	14.86		
3	1	14		14.84	14.81	14.73		
3	8	0		14.71	14.66	14.64		
3	8	4		14.72	14.70	14.68		
3	8	7		14.66	14.69	14.65		
3	15	0		14.62	14.60	14.61		
3	1	0	64-QAM	14.80	14.76	14.64	15.62	0.0365
3	1	8		14.92	14.84	14.80		
3	1	14		14.70	14.76	14.75		
3	8	0		14.69	14.63	14.61		
3	8	4		14.69	14.68	14.68		
3	8	7		14.66	14.64	14.64		
3	15	0		14.68	14.61	14.60		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	14.55	14.51	14.49	15.31	0.0340
1.4	1	3		14.61	14.58	14.51		
1.4	1	5		14.55	14.53	14.51		
1.4	3	0		14.58	14.57	14.55		
1.4	3	1		14.60	14.55	14.56		
1.4	3	3		14.58	14.55	14.55		
1.4	6	0		14.60	14.58	14.54		
1.4	1	0	16-QAM	14.94	14.88	14.82	15.64	0.0366
1.4	1	3		14.90	14.88	14.88		
1.4	1	5		14.83	14.88	14.87		
1.4	3	0		14.76	14.70	14.63		
1.4	3	1		14.75	14.75	14.72		
1.4	3	3		14.71	14.73	14.69		
1.4	6	0		14.67	14.66	14.62		
1.4	1	0	64-QAM	14.73	14.73	14.69	15.49	0.0354
1.4	1	3		14.79	14.77	14.76		
1.4	1	5		14.74	14.73	14.72		
1.4	3	0		14.70	14.71	14.63		
1.4	3	1		14.78	14.69	14.68		
1.4	3	3		14.70	14.63	14.67		
1.4	6	0		14.61	14.67	14.60		
Limit	EIRP < 1W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	21.02	21.03	20.99	16.42	0.0439
10	1	25		21.10	21.15	21.06		
10	1	49		21.14	21.06	21.00		
10	25	0		21.03	21.06	21.07		
10	25	12		21.16	21.11	21.11		
10	25	25		21.17	21.09	21.10		
10	50	0		21.14	21.07	21.08		
10	1	0	16-QAM	21.43	21.33	21.38	16.71	0.0469
10	1	25		21.46	21.42	21.37		
10	1	49		21.46	21.42	21.33		
10	25	0		21.03	21.04	21.07		
10	25	12		21.09	21.08	21.12		
10	25	25		21.17	21.15	21.10		
10	50	0		21.04	21.02	21.10		
10	1	0	64-QAM	21.21	21.22	21.25	16.62	0.0459
10	1	25		21.29	21.37	21.33		
10	1	49		21.30	21.29	21.20		
10	25	0		19.99	20.05	20.09		
10	25	12		20.09	20.10	20.10		
10	25	25		20.16	20.13	20.08		
10	50	0		20.07	20.05	20.09		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	20.95	20.96	20.94	16.36	0.0433
5	1	12		21.08	21.08	21.04		
5	1	24		21.05	20.99	20.95		
5	12	0		20.97	20.99	20.92		
5	12	7		21.11	21.01	21.03		
5	12	13		21.07	21.00	21.00		
5	25	0		21.05	21.01	20.93		
5	1	0	16-QAM	21.25	21.28	21.22	16.68	0.0466
5	1	12		21.34	21.43	21.37		
5	1	24		21.32	21.31	21.33		
5	12	0		20.95	20.98	20.96		
5	12	7		21.07	21.11	21.12		
5	12	13		21.05	21.09	21.07		
5	25	0		21.02	20.97	21.02		
5	1	0	64-QAM	21.12	21.16	21.16	16.57	0.0454
5	1	12		21.31	21.32	21.31		
5	1	24		21.25	21.22	21.16		
5	12	0		19.95	19.95	19.94		
5	12	7		20.05	20.08	20.08		
5	12	13		20.07	20.10	20.05		
5	25	0		20.03	19.96	20.00		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	20.93	20.93	20.88	16.35	0.0432
3	1	8		21.09	21.08	21.01		
3	1	14		20.98	20.97	20.91		
3	8	0		21.06	20.98	20.92		
3	8	4		21.10	21.03	21.04		
3	8	7		21.09	21.01	21.01		
3	15	0		21.04	20.98	20.93		
3	1	0	16-QAM	21.25	21.22	21.30	16.63	0.0460
3	1	8		21.34	21.38	21.30		
3	1	14		21.27	21.31	21.27		
3	8	0		21.04	21.10	21.00		
3	8	4		21.08	21.17	21.06		
3	8	7		21.10	21.13	21.09		
3	15	0		21.00	21.05	21.00		
3	1	0	64-QAM	21.01	21.09	21.16	16.55	0.0452
3	1	8		21.13	21.30	21.24		
3	1	14		21.19	21.27	21.05		
3	8	0		20.00	20.07	19.91		
3	8	4		20.04	20.13	20.06		
3	8	7		20.05	20.06	20.05		
3	15	0		19.99	20.06	20.01		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	20.98	20.99	20.92	16.31	0.0428
1.4	1	3		21.03	21.06	20.96		
1.4	1	5		20.98	20.99	20.93		
1.4	3	0		21.04	21.02	20.97		
1.4	3	1		21.03	21.05	20.99		
1.4	3	3		21.04	21.03	20.94		
1.4	6	0		21.02	20.96	20.98		
1.4	1	0	16-QAM	21.23	21.35	21.27	16.62	0.0459
1.4	1	3		21.37	21.35	21.29		
1.4	1	5		21.25	21.30	21.31		
1.4	3	0		21.08	21.16	21.10		
1.4	3	1		21.09	21.14	21.09		
1.4	3	3		21.09	21.17	21.04		
1.4	6	0		21.04	21.10	21.05		
1.4	1	0	64-QAM	21.08	21.13	21.13	16.51	0.0448
1.4	1	3		21.22	21.21	21.26		
1.4	1	5		21.05	21.14	21.17		
1.4	3	0		21.07	21.11	21.13		
1.4	3	1		21.01	21.13	21.09		
1.4	3	3		21.05	21.15	21.09		
1.4	6	0		19.95	20.08	19.99		
Limit	ERP < 3W			Result			Pass	

LTE Band 41 PC3 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	14.33	14.24	14.28	14.98	0.0315
20	1	49		14.29	14.26	14.27		
20	1	99		14.22	14.34	14.33		
20	50	0		14.35	14.32	14.33		
20	50	24		14.38	14.36	14.36		
20	50	50		14.37	14.33	14.28		
20	100	0		14.37	14.35	14.35		
20	1	0	16-QAM	14.33	14.21	14.29	15.00	0.0316
20	1	49		14.30	14.26	14.25		
20	1	99		14.23	14.40	14.30		
20	50	0		14.33	14.32	14.34		
20	50	24		14.40	14.36	14.38		
20	50	50		14.38	14.32	14.33		
20	100	0		14.38	14.34	14.34		
20	1	0	64-QAM	14.24	14.19	14.16	15.03	0.0318
20	1	49		14.30	14.28	14.24		
20	1	99		14.24	14.40	14.24		
20	50	0		14.37	14.34	14.31		
20	50	24		14.43	14.38	14.35		
20	50	50		14.40	14.29	14.25		
20	100	0		14.39	14.37	14.34		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41 PC3 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	14.27	14.23	14.21	14.99	0.0316
15	1	37		14.28	14.30	14.27		
15	1	74		14.24	14.31	14.30		
15	36	0		14.36	14.31	14.36		
15	36	20		14.39	14.36	14.37		
15	36	39		14.38	14.36	14.30		
15	75	0		14.36	14.32	14.32		
15	1	0	16-QAM	14.25	14.21	14.23	14.99	0.0316
15	1	37		14.34	14.31	14.35		
15	1	74		14.23	14.39	14.34		
15	36	0		14.32	14.29	14.36		
15	36	20		14.38	14.35	14.36		
15	36	39		14.38	14.39	14.29		
15	75	0		14.36	14.36	14.36		
15	1	0	64-QAM	14.21	14.22	14.15	15.00	0.0316
15	1	37		14.24	14.29	14.18		
15	1	74		14.20	14.27	14.24		
15	36	0		14.35	14.33	14.31		
15	36	20		14.39	14.36	14.31		
15	36	39		14.39	14.40	14.24		
15	75	0		14.39	14.37	14.31		
Limit	EIRP < 2W			Result			Pass	

LTE Band 41 PC3 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	14.30	14.12	14.28	14.99	0.0316
10	1	25		14.35	14.32	14.32		
10	1	49		14.30	14.27	14.27		
10	25	0		14.31	14.33	14.35		
10	25	12		14.37	14.37	14.36		
10	25	25		14.37	14.36	14.28		
10	50	0		14.39	14.34	14.37		
10	1	0	16-QAM	14.31	14.22	14.29	15.04	0.0319
10	1	25		14.39	14.30	14.44		
10	1	49		14.32	14.34	14.31		
10	25	0		14.31	14.33	14.36		
10	25	12		14.40	14.37	14.35		
10	25	25		14.37	14.35	14.28		
10	50	0		14.37	14.33	14.36		
10	1	0	64-QAM	14.27	14.14	14.28	14.98	0.0315
10	1	25		14.24	14.31	14.35		
10	1	49		14.26	14.25	14.24		
10	25	0		14.31	14.31	14.32		
10	25	12		14.38	14.35	14.36		
10	25	25		14.38	14.38	14.29		
10	50	0		14.35	14.37	14.31		
Limit	EIRP < 2W			Result			Pass	

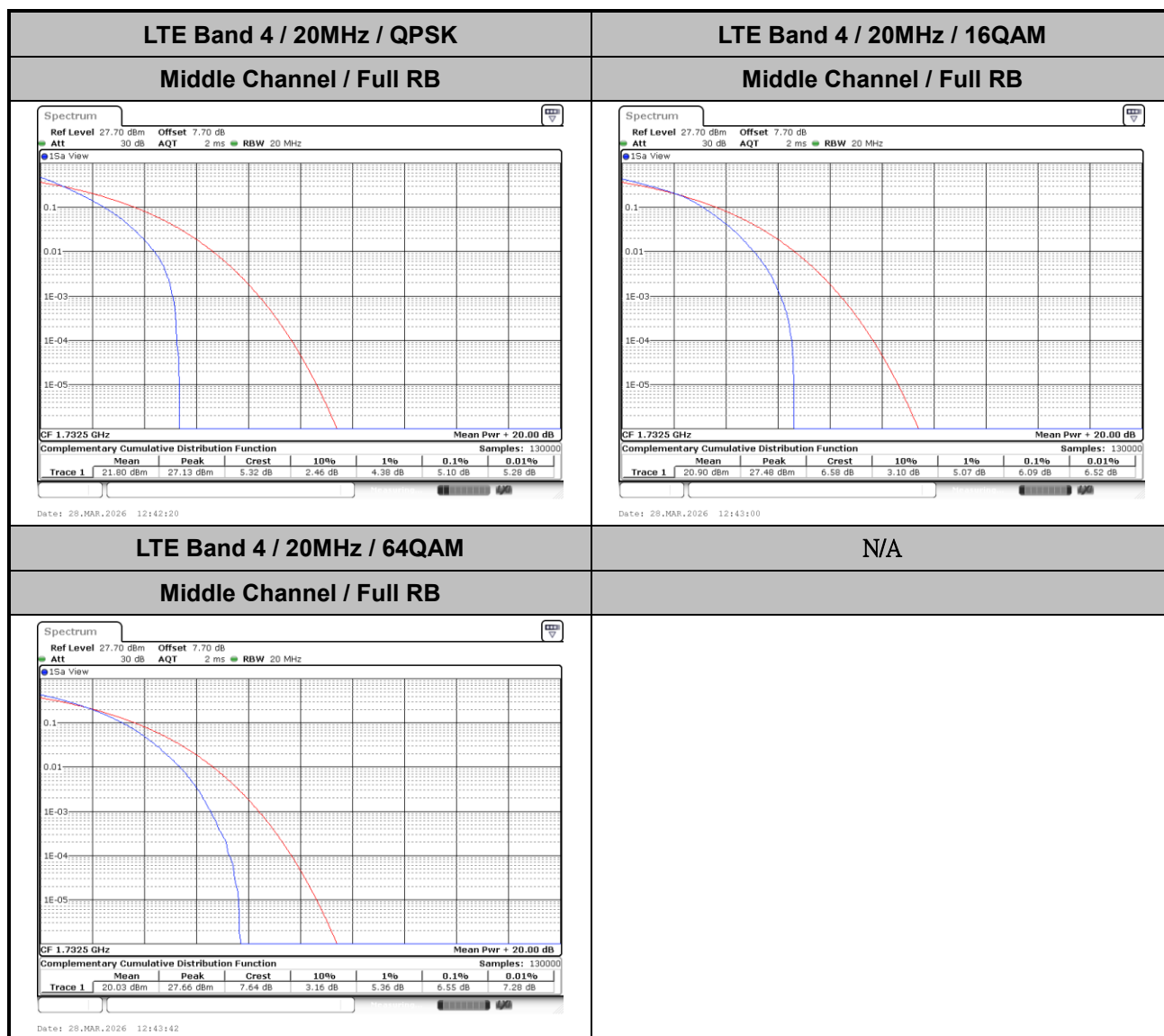
LTE Band 41 PC3 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	14.27	14.21	14.24	14.97	0.0314
5	1	12		14.32	14.34	14.31		
5	1	24		14.28	14.21	14.23		
5	12	0		14.37	14.30	14.33		
5	12	7		14.37	14.36	14.32		
5	12	13		14.33	14.31	14.30		
5	25	0		14.34	14.29	14.32		
5	1	0	16-QAM	14.26	14.25	14.27	14.97	0.0314
5	1	12		14.36	14.30	14.36		
5	1	24		14.28	14.20	14.21		
5	12	0		14.32	14.31	14.30		
5	12	7		14.37	14.35	14.36		
5	12	13		14.34	14.32	14.32		
5	25	0		14.32	14.30	14.30		
5	1	0	64-QAM	14.22	14.24	14.21	15.00	0.0316
5	1	12		14.33	14.31	14.21		
5	1	24		14.25	14.20	14.20		
5	12	0		14.37	14.25	14.28		
5	12	7		14.40	14.33	14.34		
5	12	13		14.37	14.33	14.28		
5	25	0		14.35	14.34	14.28		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	N/A	Limit: 13dB
RB Size	Full RB	Full RB	Full RB		Result
Middle CH	5.10	6.09	6.55		PASS





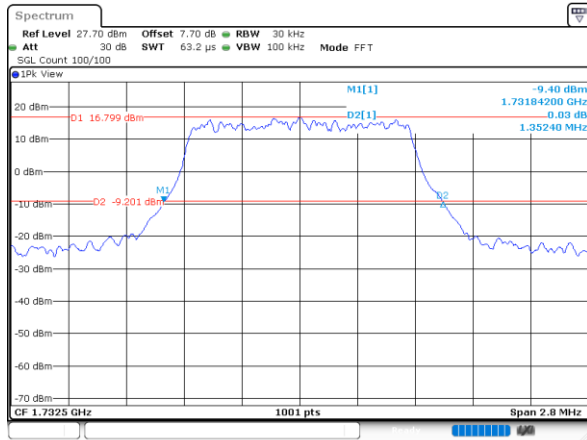
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.35	1.33	3.01	3.11	5.13	5.00	9.72	9.76	14.58	14.43	19.08	18.88

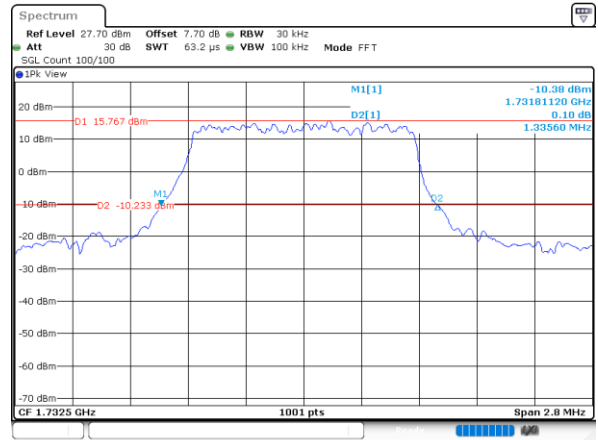


LTE Band 4

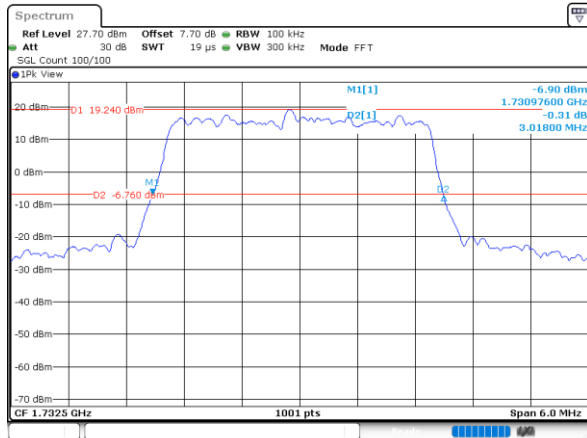
Middle Channel / 1.4MHz / QPSK



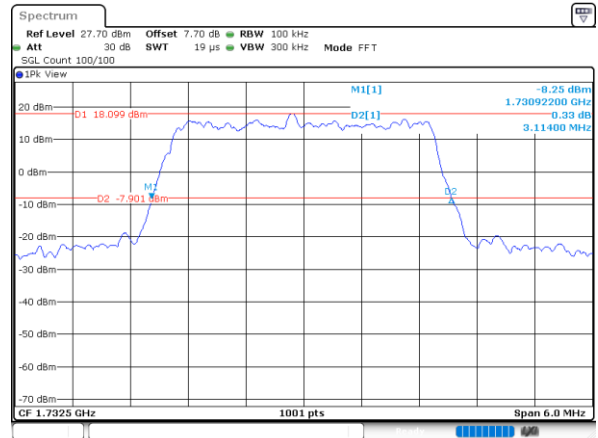
Middle Channel / 1.4MHz / 16QAM



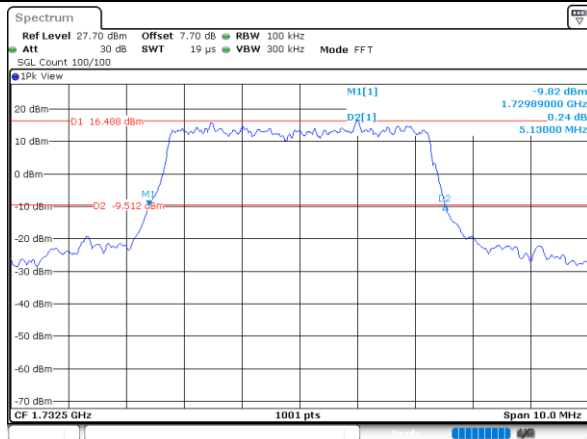
Middle Channel / 3MHz / QPSK



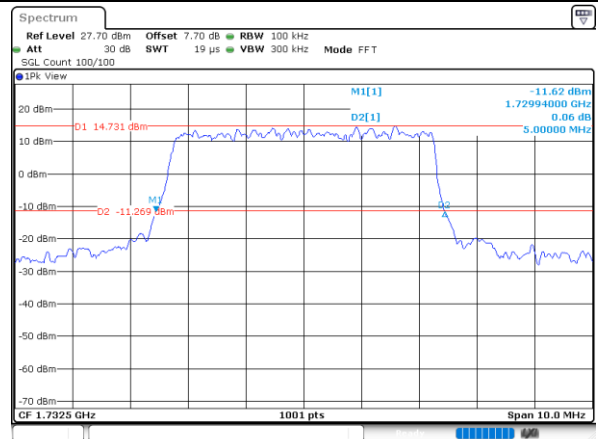
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



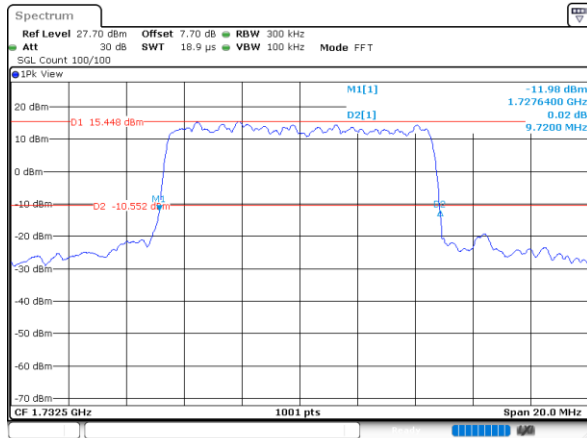
Middle Channel / 5MHz / 16QAM



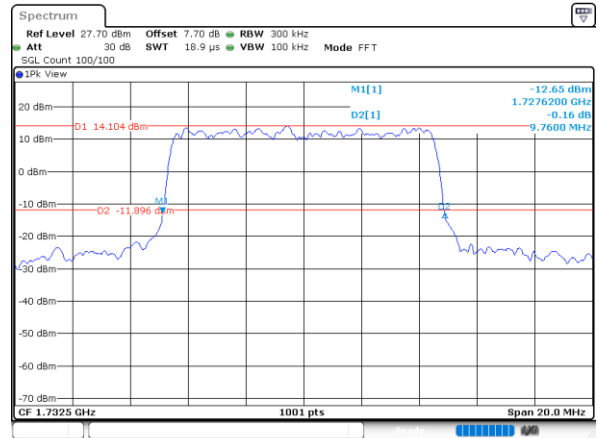


LTE Band 4

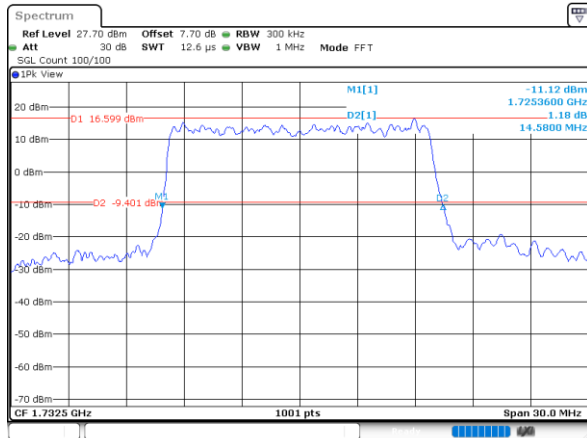
Middle Channel / 10MHz / QPSK



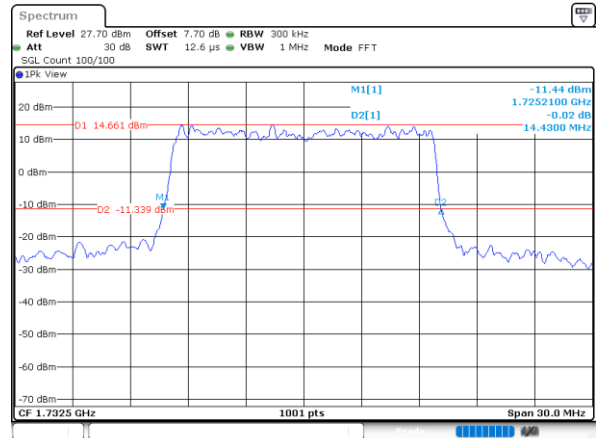
Middle Channel / 10MHz / 16QAM



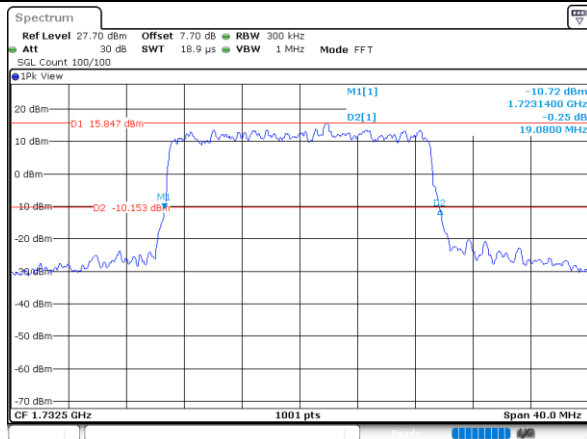
Middle Channel / 15MHz / QPSK



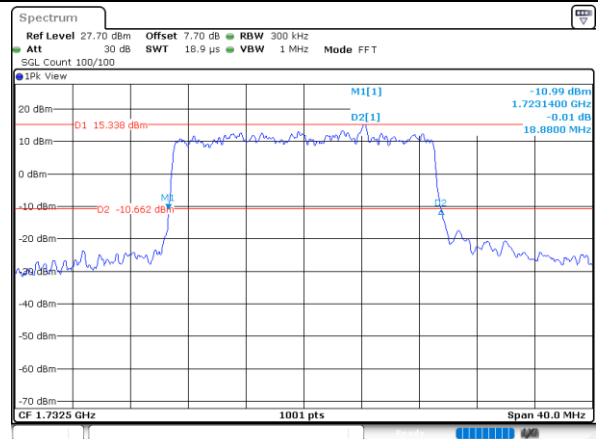
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



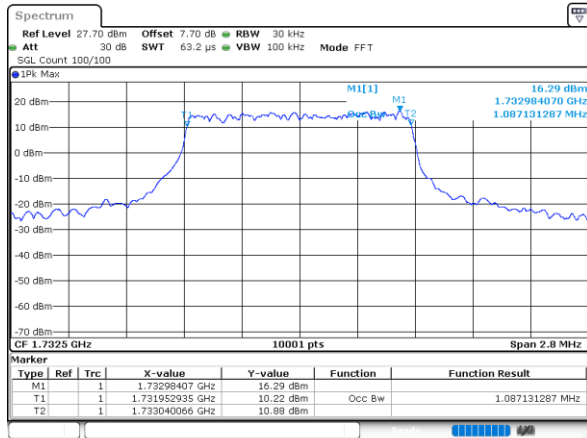
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.73	2.72	4.50	4.48	9.04	9.09	13.52	13.45	17.90	17.87

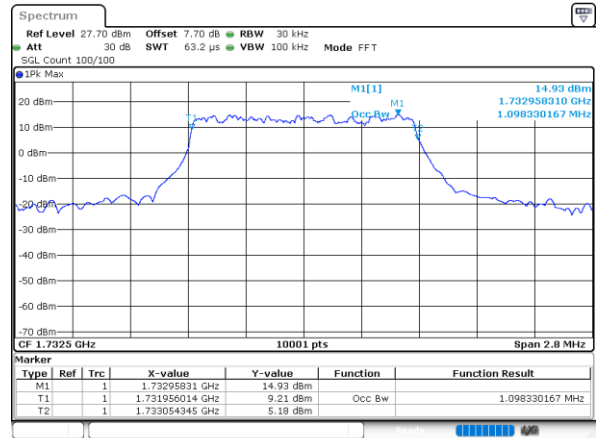


LTE Band 4

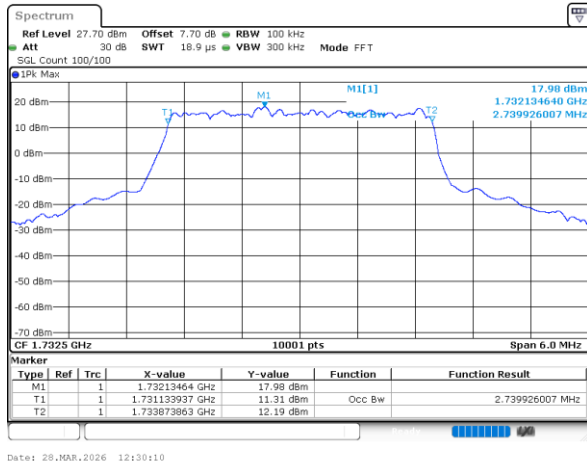
Middle Channel / 1.4MHz / QPSK



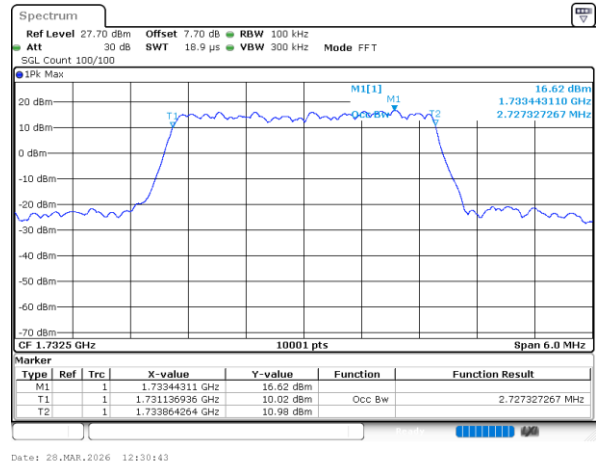
Middle Channel / 1.4MHz / 16QAM



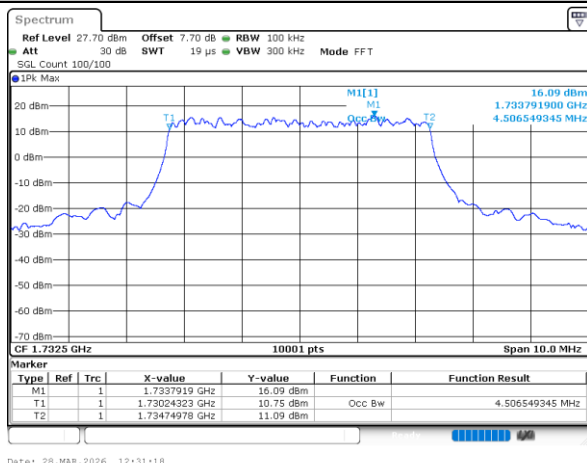
Middle Channel / 3MHz / QPSK



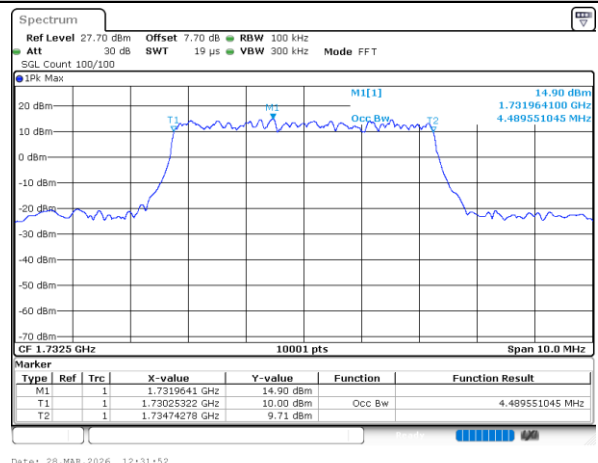
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



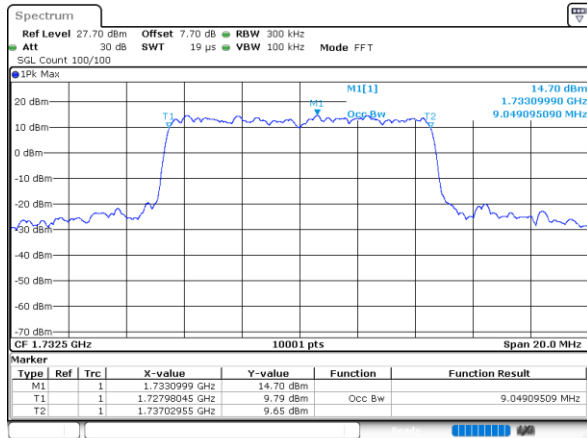
Middle Channel / 5MHz / 16QAM



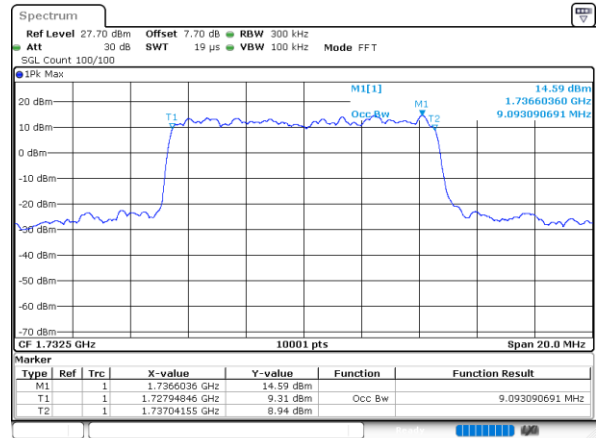


LTE Band 4

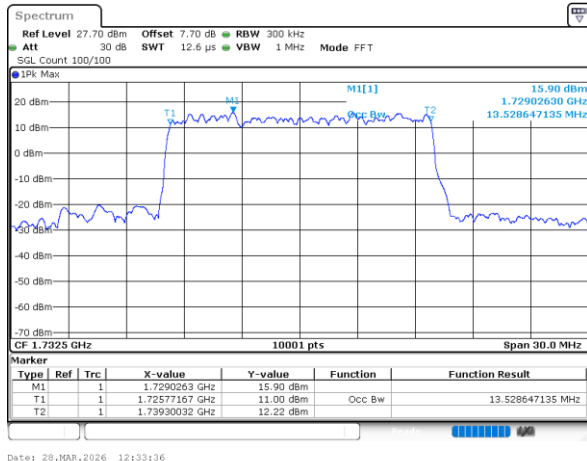
Middle Channel / 10MHz / QPSK



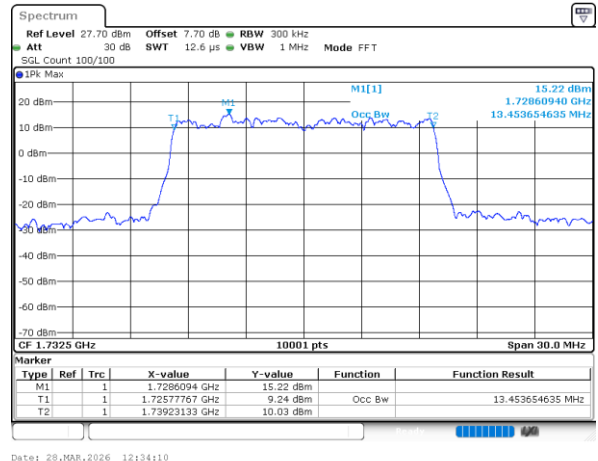
Middle Channel / 10MHz / 16QAM



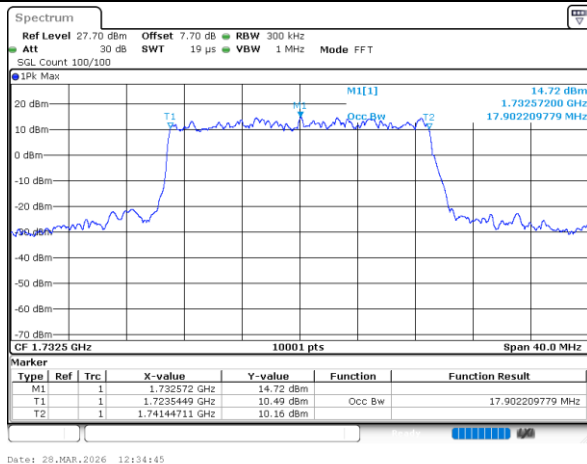
Middle Channel / 15MHz / QPSK



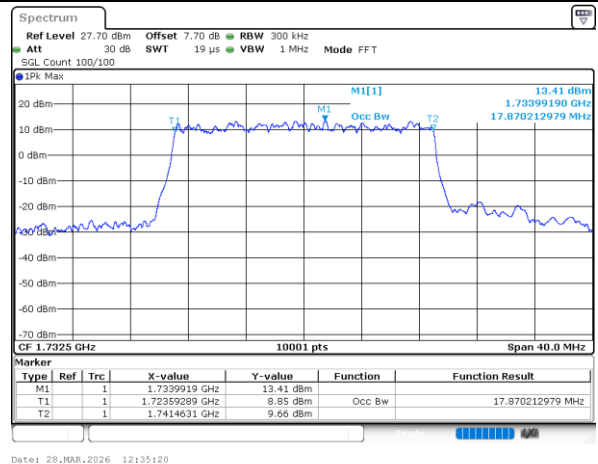
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

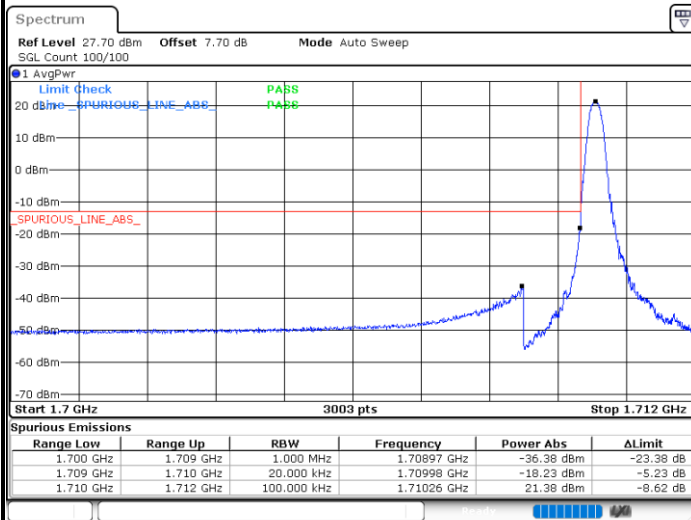




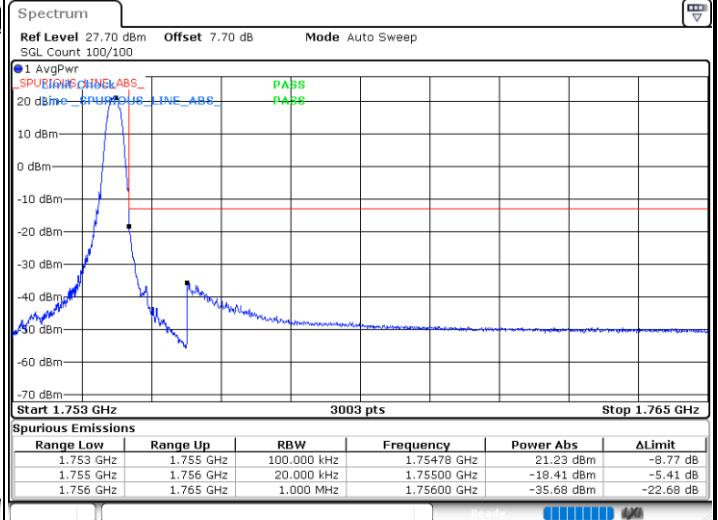
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

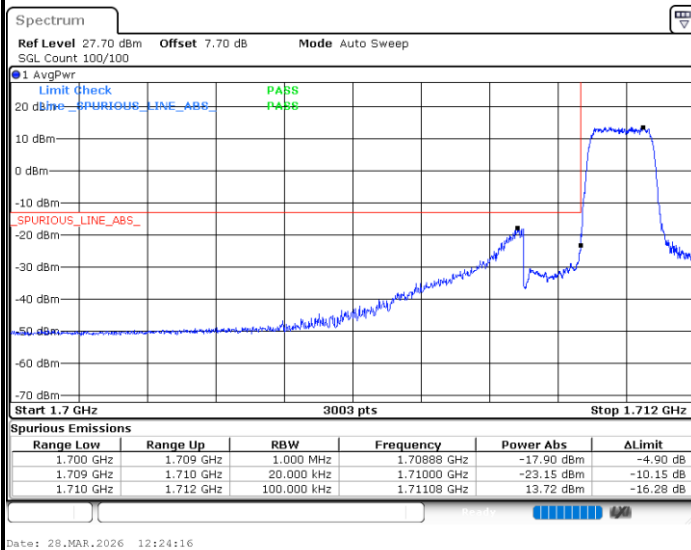
Lowest Band Edge / 1RB



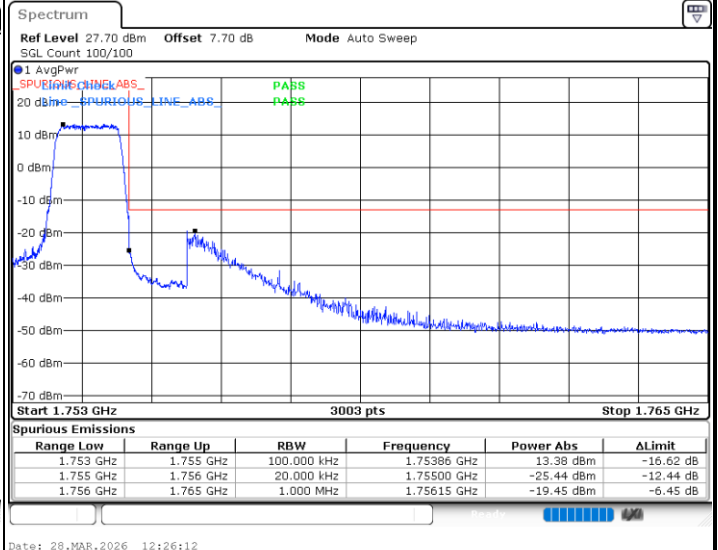
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



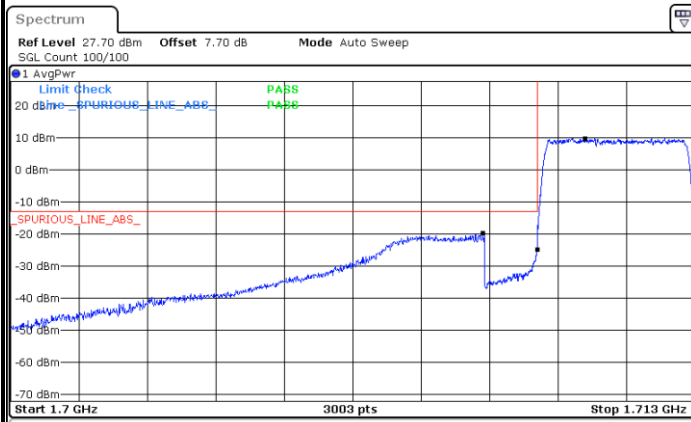
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / QPSK

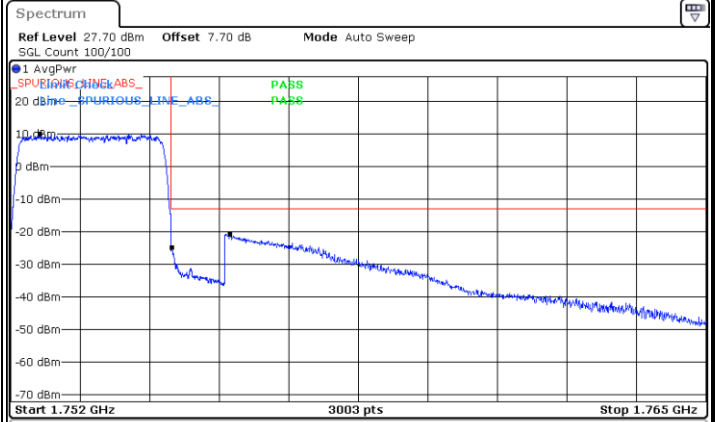
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-19.76 dBm	-6.76 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-24.90 dBm	-11.90 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71091 GHz	9.89 dBm	-20.11 dB

Date: 28.MAR.2026 12:44:39

Highest Band Edge / Full RB

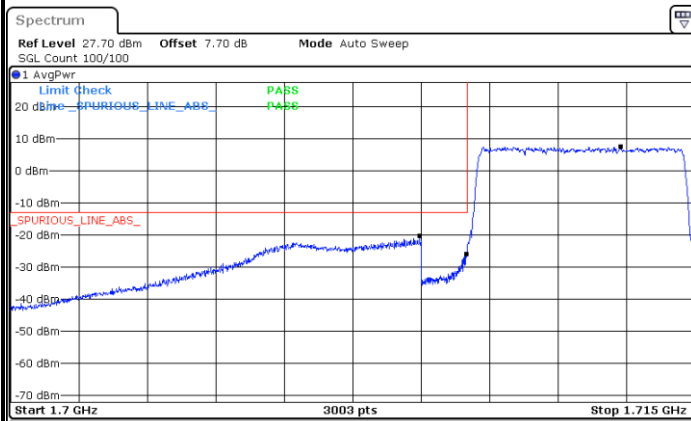


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75254 GHz	10.06 dBm	-19.94 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75501 GHz	-24.88 dBm	-11.88 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75610 GHz	-20.77 dBm	-7.77 dB

Date: 28.MAR.2026 12:45:34

LTE Band 4 / 5MHz / QPSK

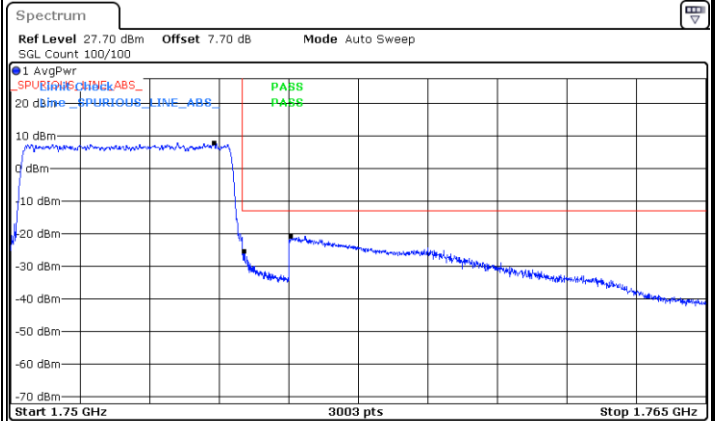
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70896 GHz	-20.39 dBm	-7.39 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70999 GHz	-25.83 dBm	-12.83 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71337 GHz	7.58 dBm	-22.42 dB

Date: 28.MAR.2026 12:47:30

Highest Band Edge / Full RB



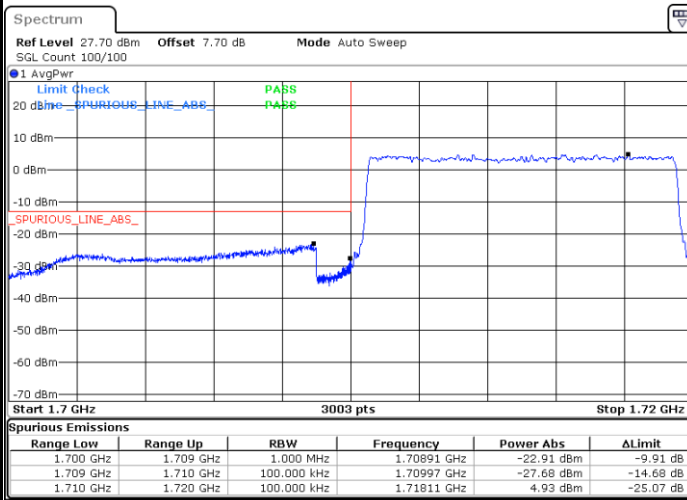
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75438 GHz	8.00 dBm	-22.00 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75503 GHz	-25.50 dBm	-12.50 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75604 GHz	-20.68 dBm	-7.68 dB

Date: 28.MAR.2026 12:46:32

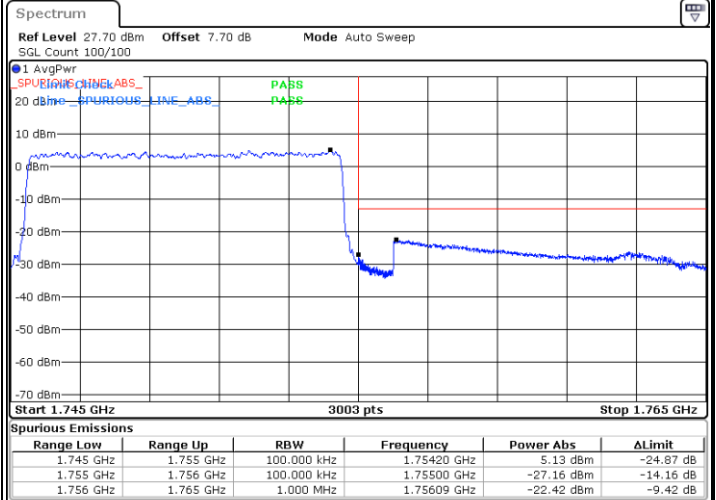


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

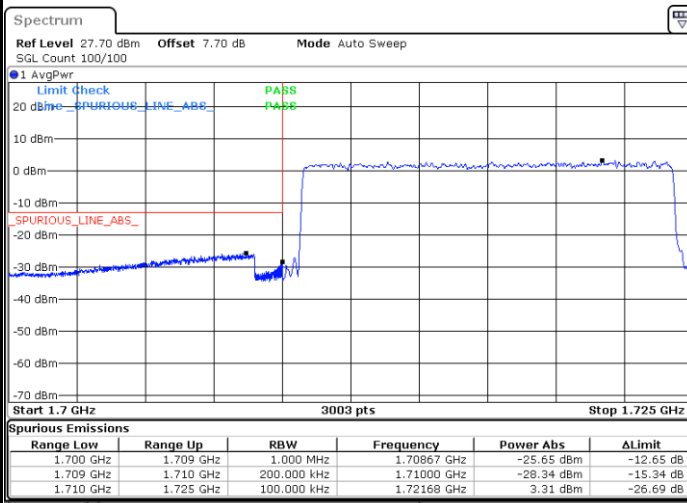


Highest Band Edge / Full RB

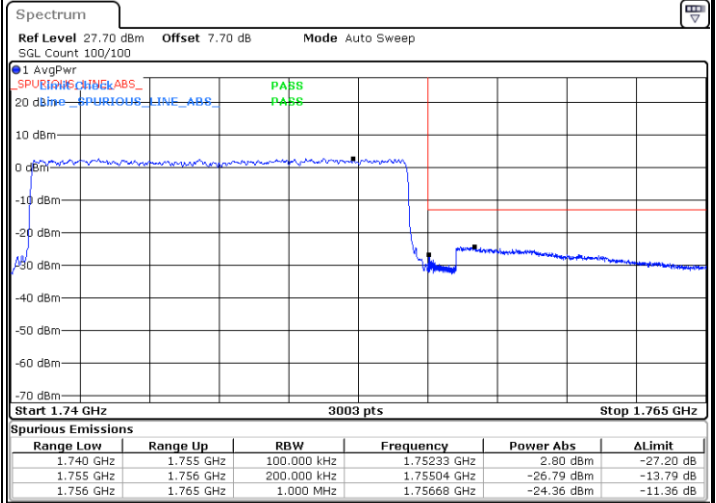


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

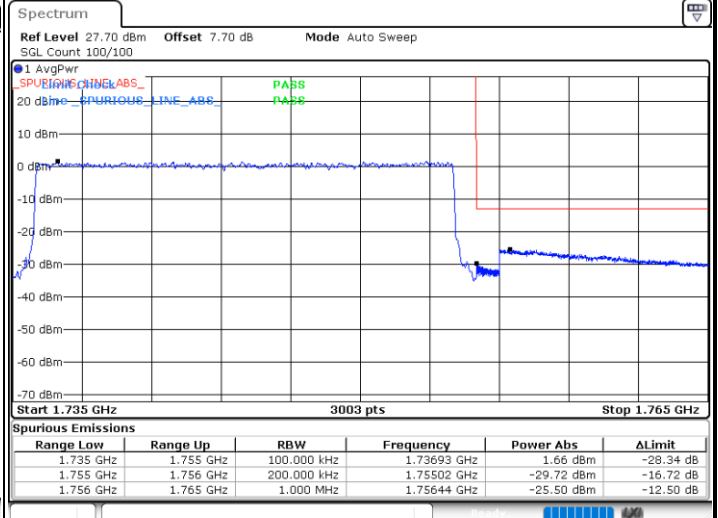
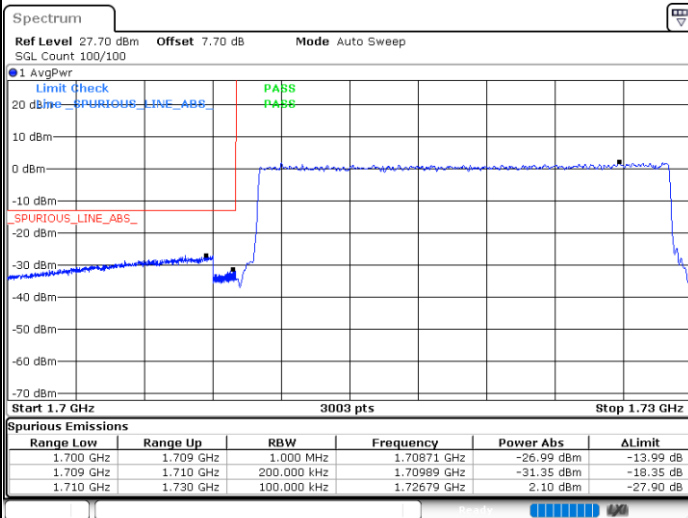




LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

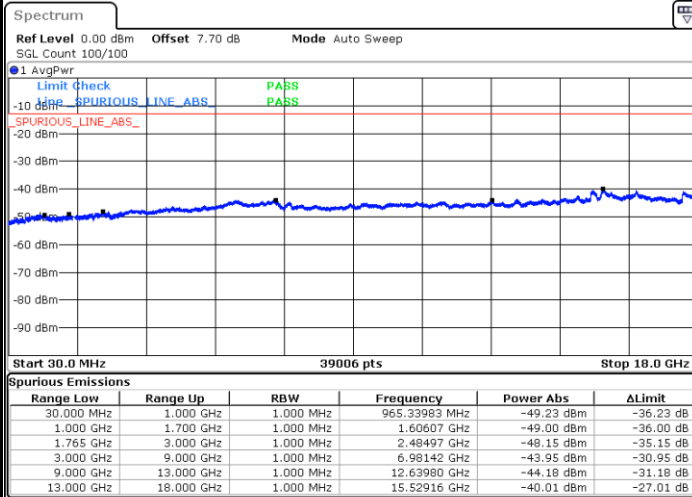




Conducted Spurious Emission

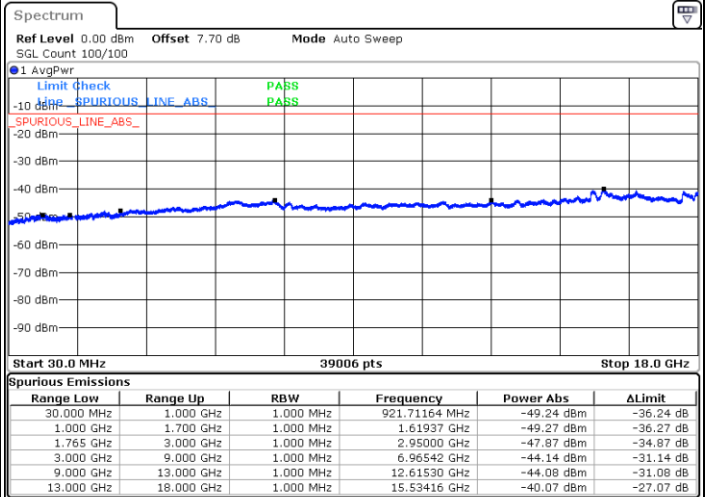
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



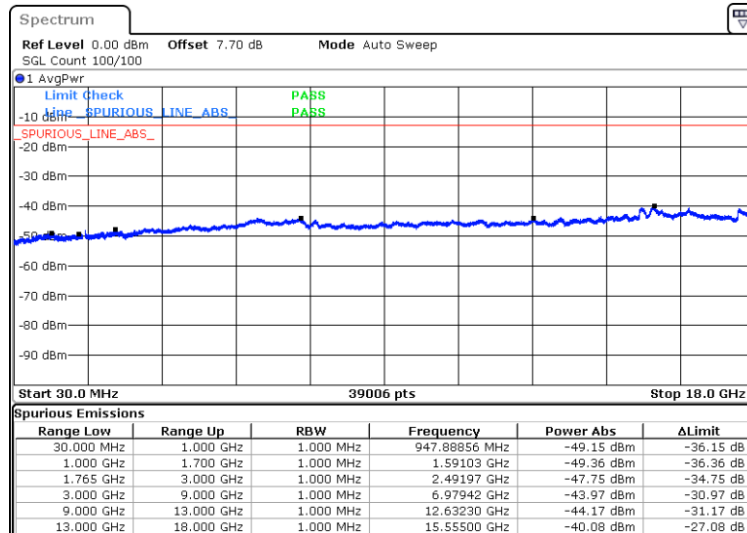
Date: 28.MAR.2026 12:27:18

Middle Channel / QPSK



Date: 28.MAR.2026 12:28:26

Highest Channel / QPSK

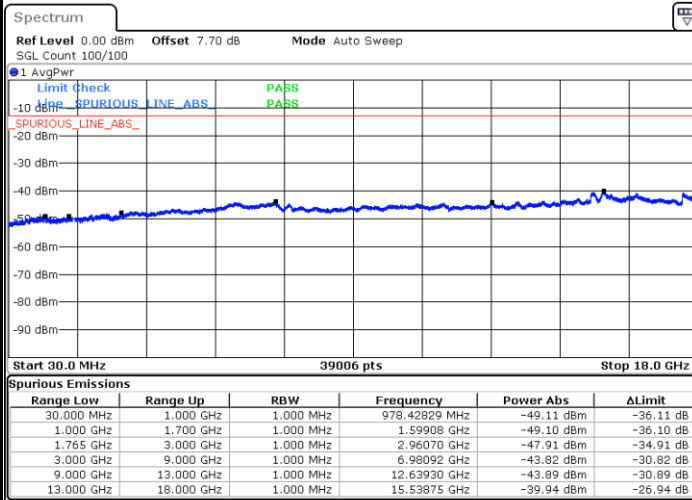


Date: 28.MAR.2026 12:29:34



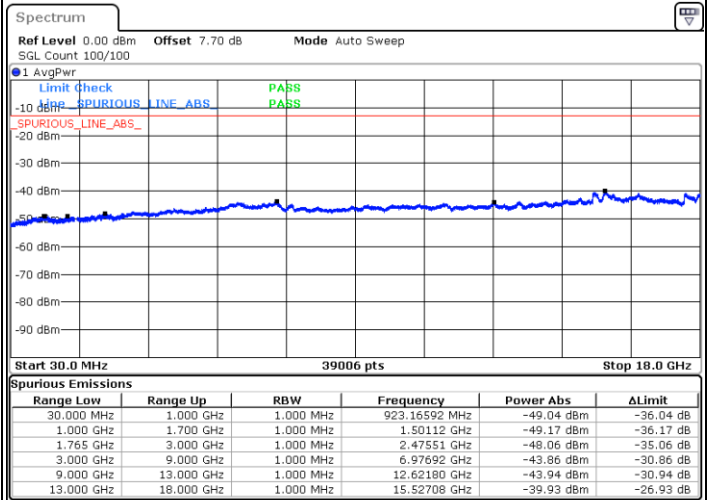
LTE Band 4 / 3MHz

Lowest Channel / QPSK



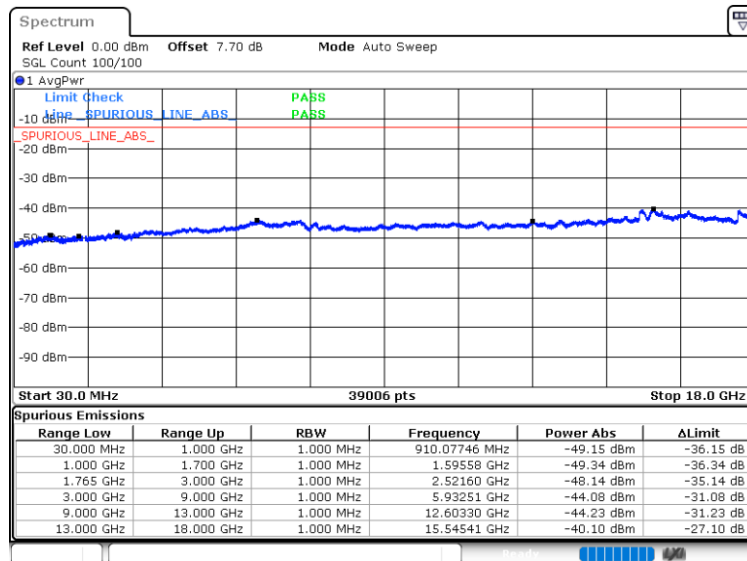
Date: 28.MAR.2026 12:54:24

Middle Channel / QPSK



Date: 28.MAR.2026 12:55:32

Highest Channel / QPSK

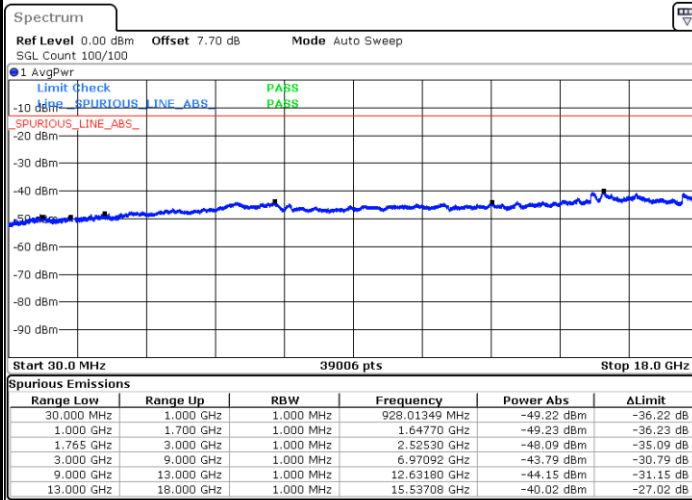


Date: 28.MAR.2026 12:56:40



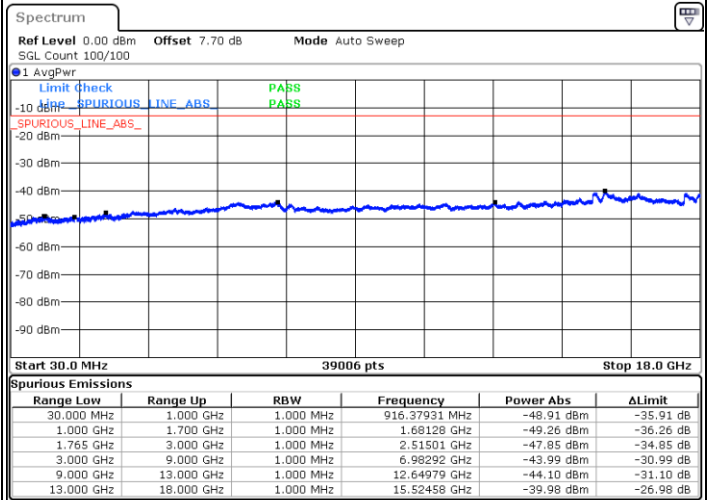
LTE Band 4 / 5MHz

Lowest Channel / QPSK



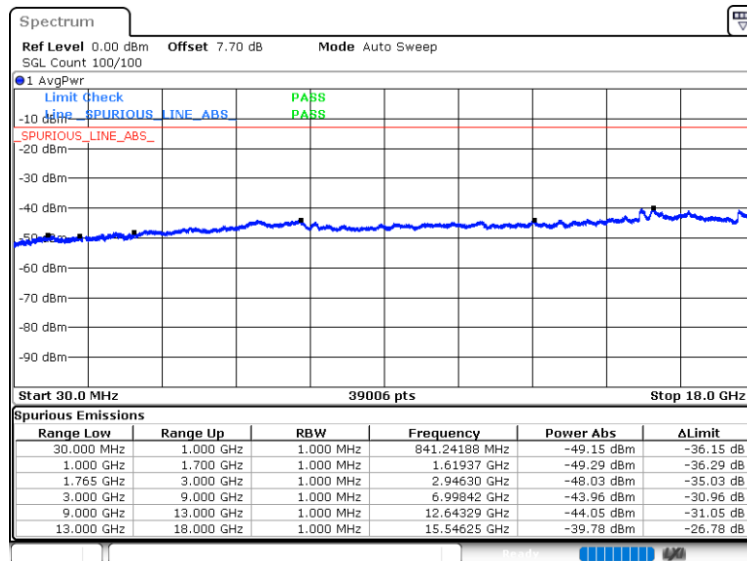
Date: 28.MAR.2026 12:57:49

Middle Channel / QPSK



Date: 28.MAR.2026 12:58:57

Highest Channel / QPSK

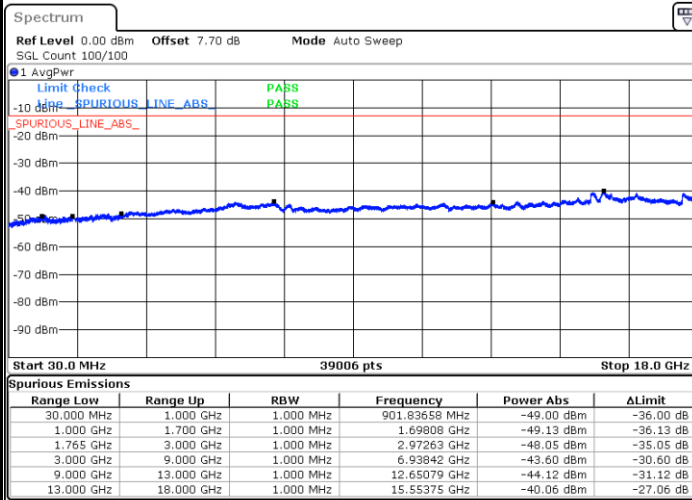


Date: 28.MAR.2026 13:00:04



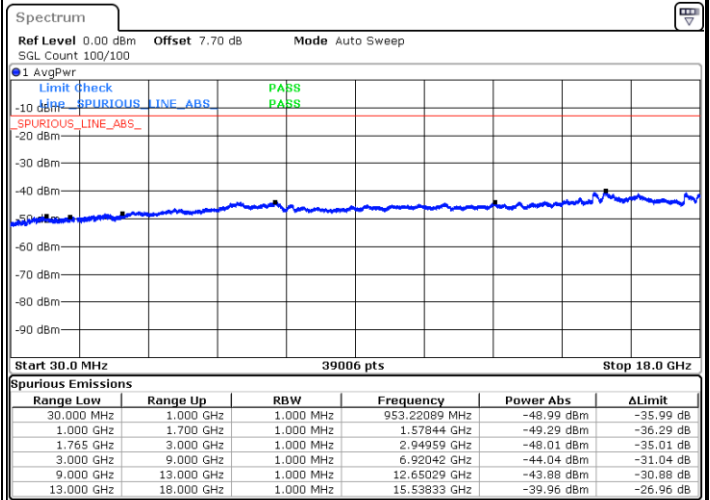
LTE Band 4 / 10MHz

Lowest Channel / QPSK



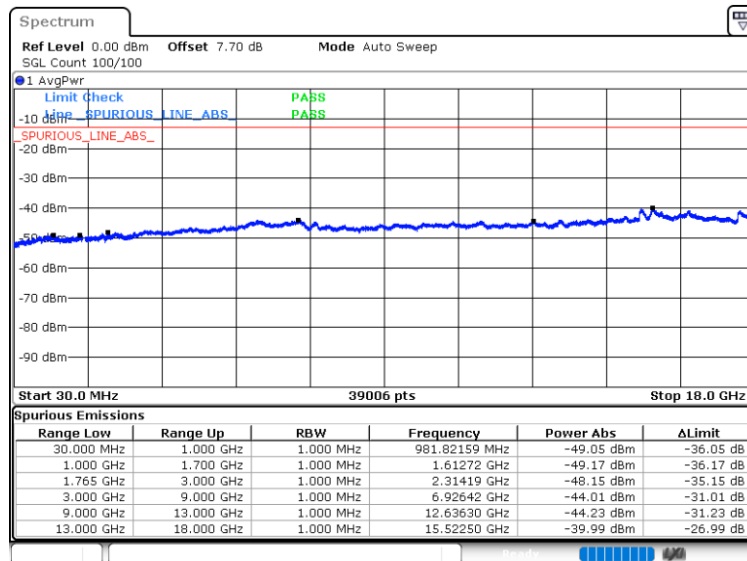
Date: 28.MAR.2026 13:01:13

Middle Channel / QPSK



Date: 28.MAR.2026 13:02:19

Highest Channel / QPSK

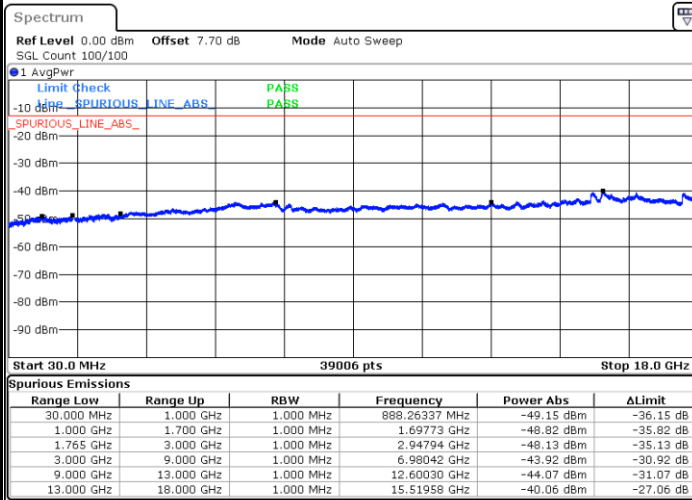


Date: 28.MAR.2026 13:03:26



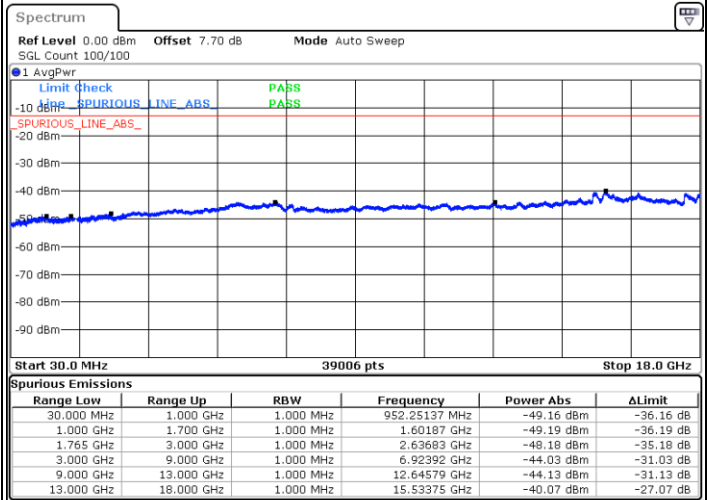
LTE Band 4 / 15MHz

Lowest Channel / QPSK



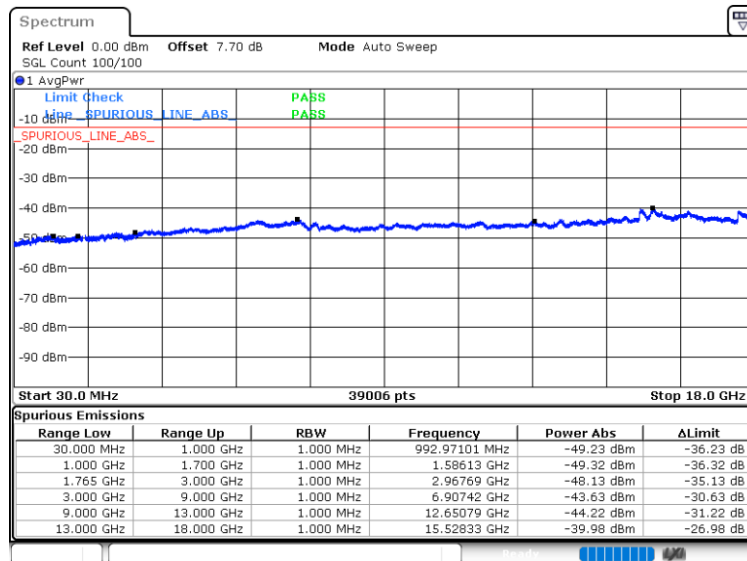
Date: 28.MAR.2026 13:04:35

Middle Channel / QPSK



Date: 28.MAR.2026 13:05:43

Highest Channel / QPSK

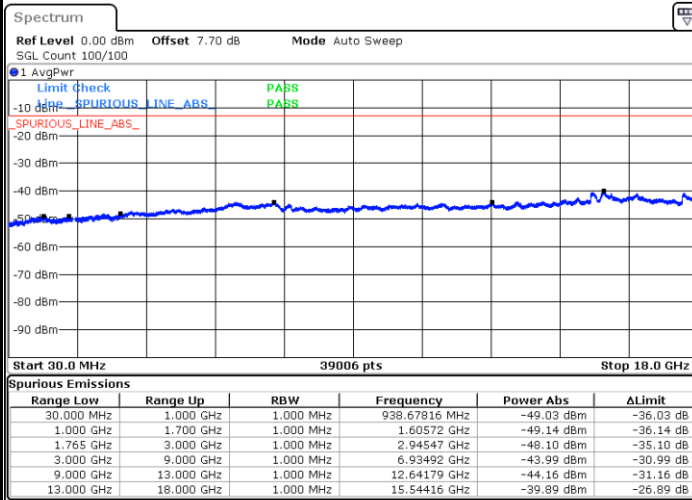


Date: 28.MAR.2026 13:06:50



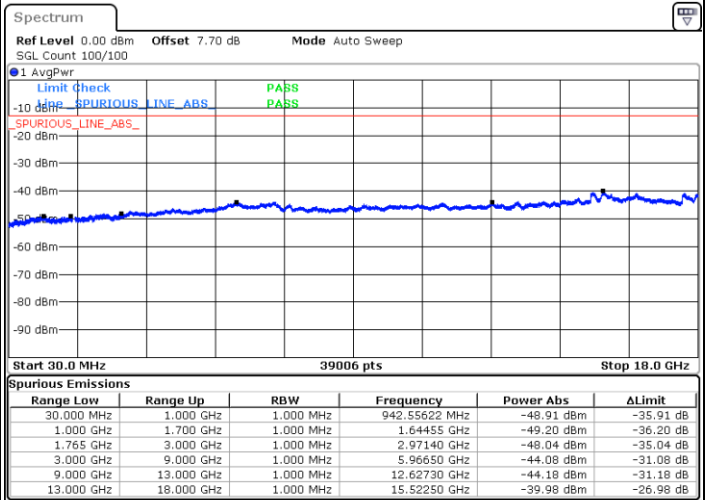
LTE Band 4 / 20MHz

Lowest Channel / QPSK



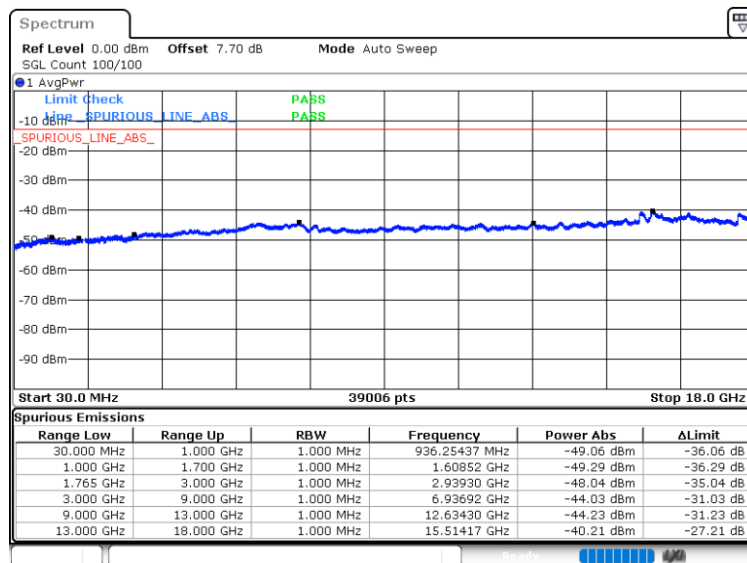
Date: 28.MAR.2026 13:07:57

Middle Channel / QPSK



Date: 28.MAR.2026 13:09:04

Highest Channel / QPSK



Date: 28.MAR.2026 13:10:11

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel / BandWidth 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0025	-4.4	Yes	PASS
40	Normal Voltage	0.0004	0.7	Yes	
30	Normal Voltage	0.0040	6.9	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0005	0.9	Yes	
0	Normal Voltage	0.0001	-0.2	Yes	
-10	Normal Voltage	0.0017	2.9	Yes	
-20	Normal Voltage	0.0060	-10.4	Yes	
20	Maximum Voltage	0.0000	0	Yes	
20	Normal Voltage	0.0061	-10.6	Yes	
20	Minimum Voltage	0.0025	-4.4	Yes	

Note:

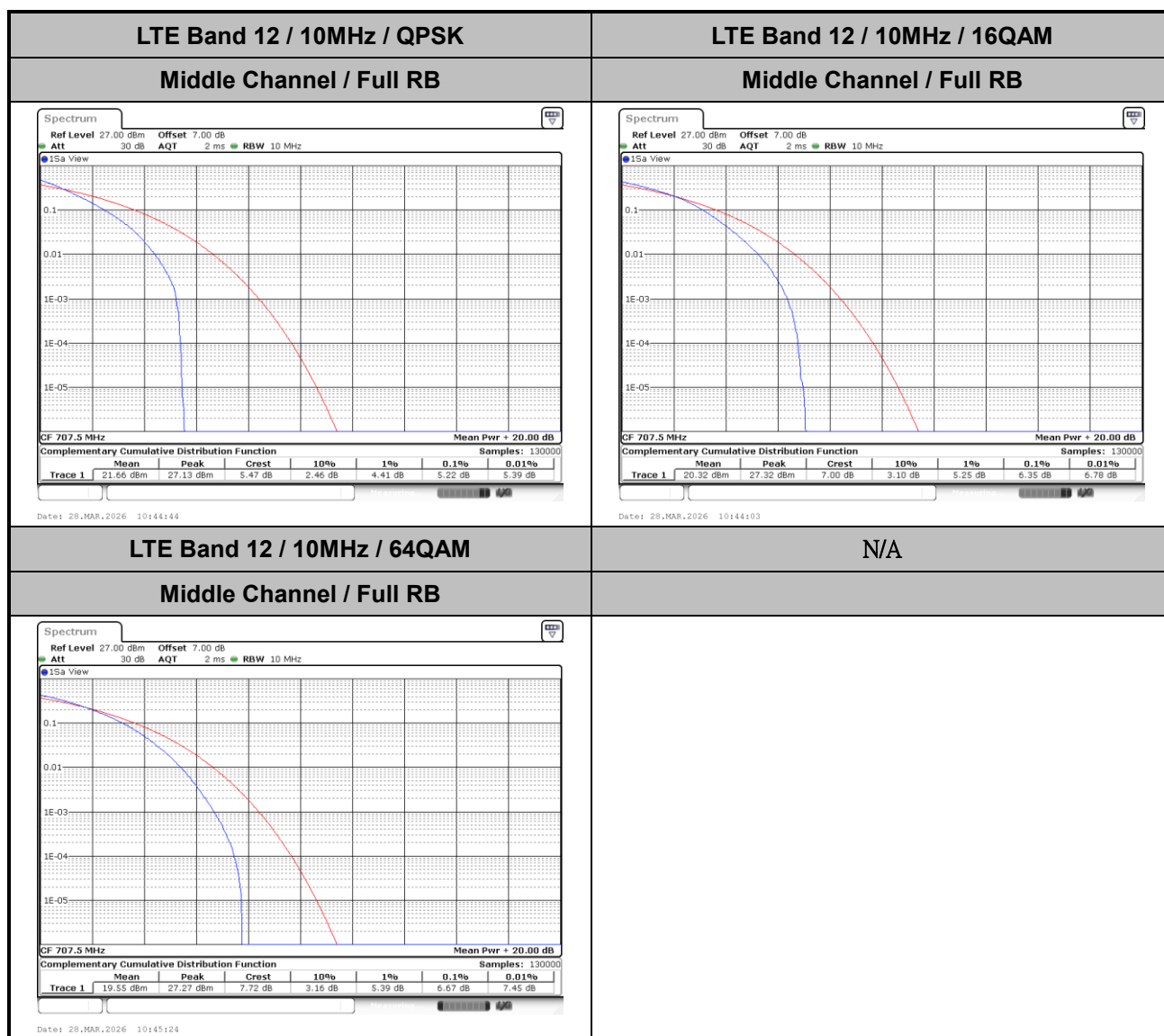
1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



LTE Band 12

Peak-to-Average Ratio

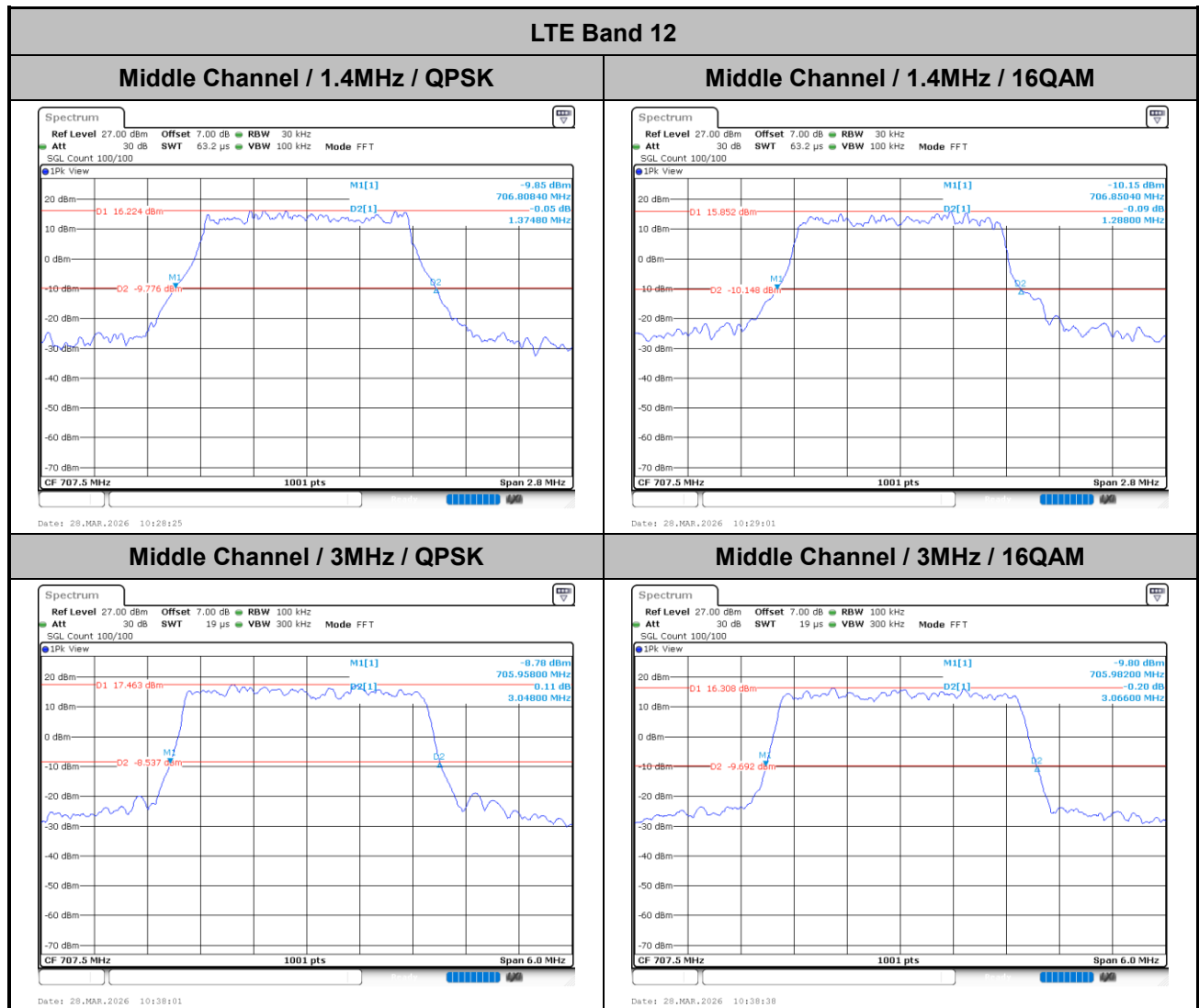
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	N/A	Limit: 13dB
RB Size	Full RB	Full RB	Full RB		Result
Middle CH	5.22	6.35	6.67		PASS





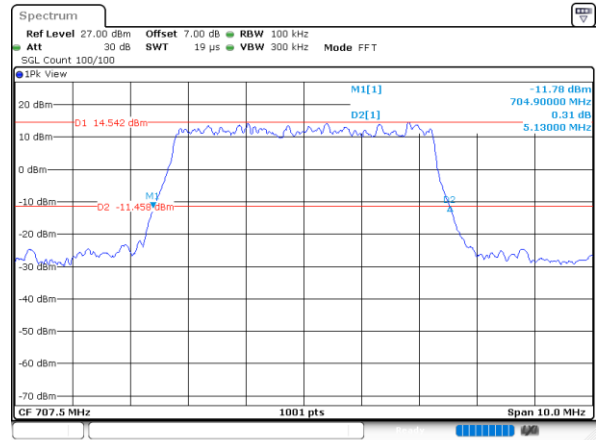
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.37	1.28	3.04	3.06	5.03	5.13	9.96	10.06	-	-	-	-



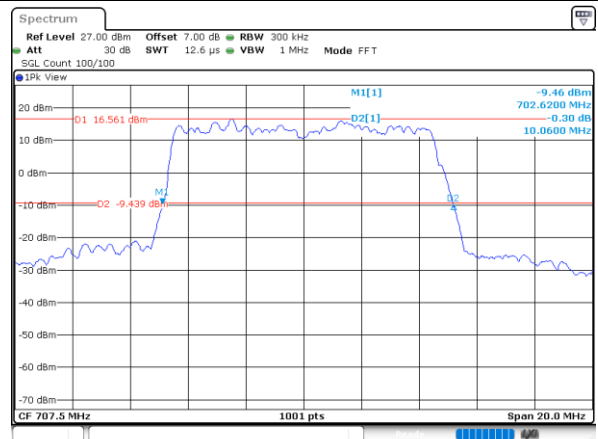


Middle Channel / 5MHz / 16QAM



Date: 28.MAR.2026 10:41:00

Middle Channel / 10MHz / 16QAM

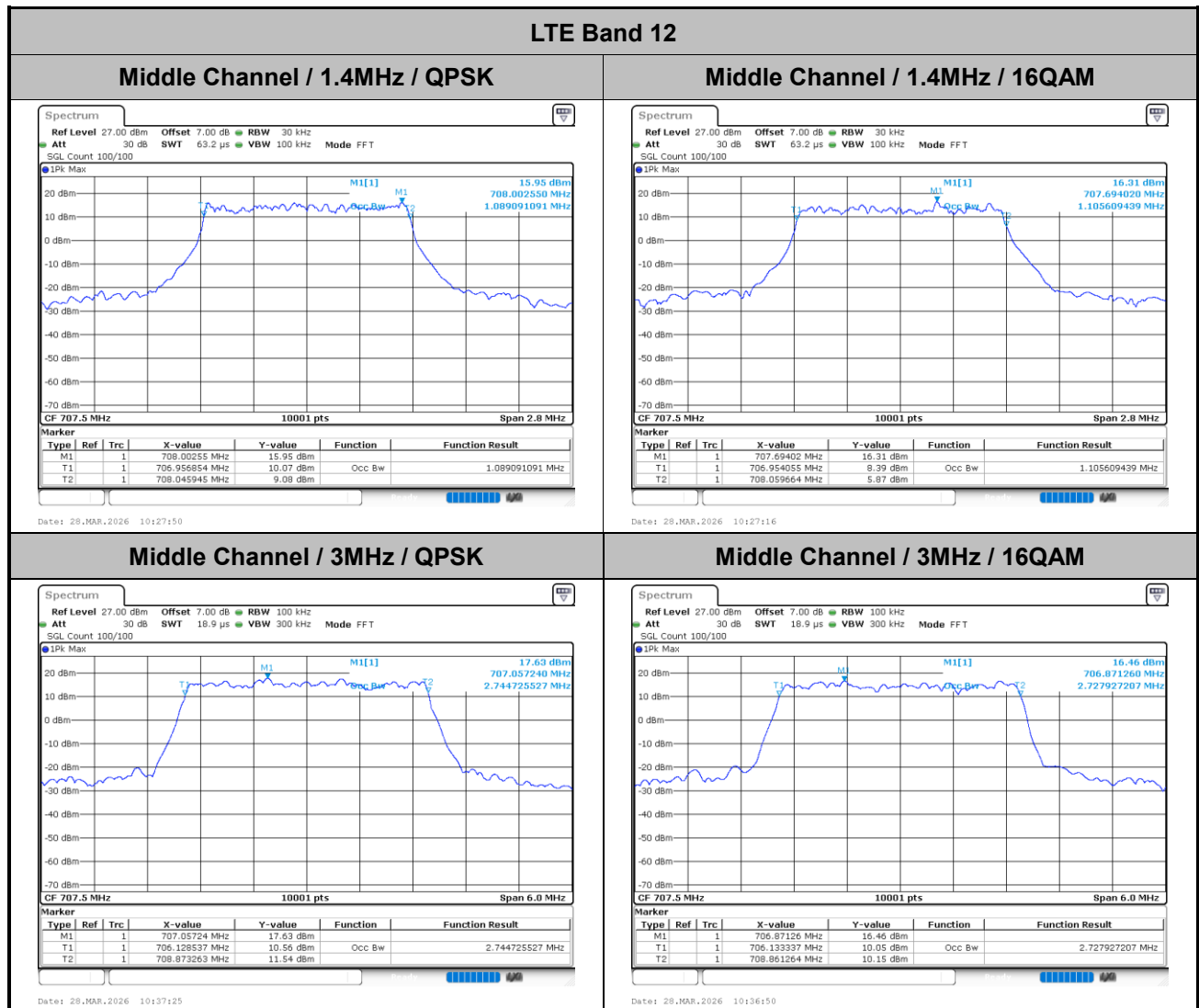


Date: 28.MAR.2026 10:43:22



Occupied Bandwidth

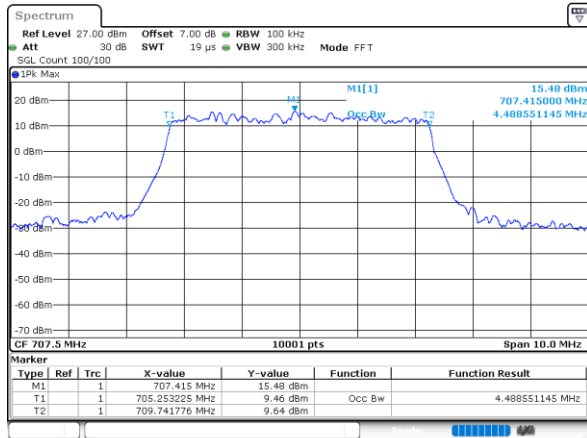
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.10	2.74	2.72	4.48	4.46	9.05	9.04	-	-	-	-





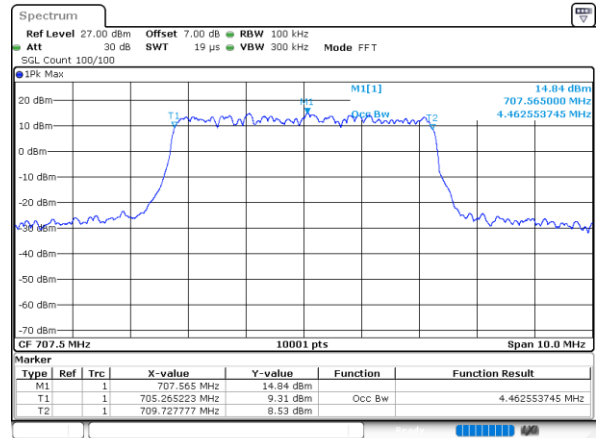
LTE Band 12

Middle Channel / 5MHz / QPSK



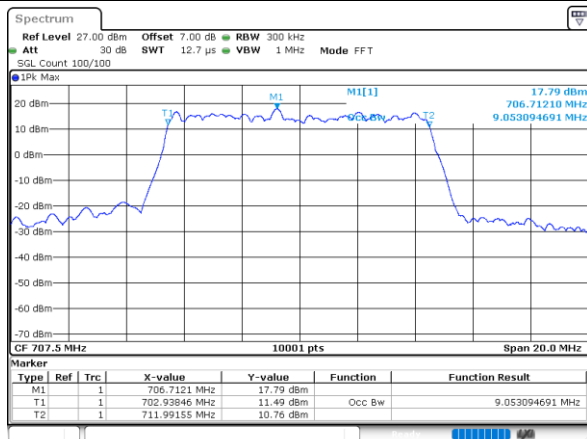
Date: 28,MAR,2026 10:39:48

Middle Channel / 5MHz / 16QAM



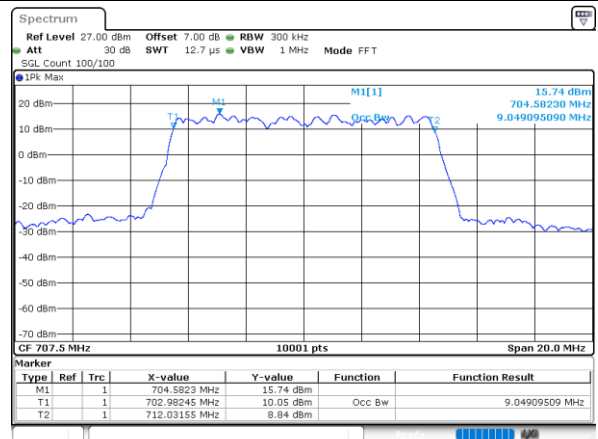
Date: 28,MAR,2026 10:39:12

Middle Channel / 10MHz / QPSK



Date: 28,MAR,2026 10:42:10

Middle Channel / 10MHz / 16QAM



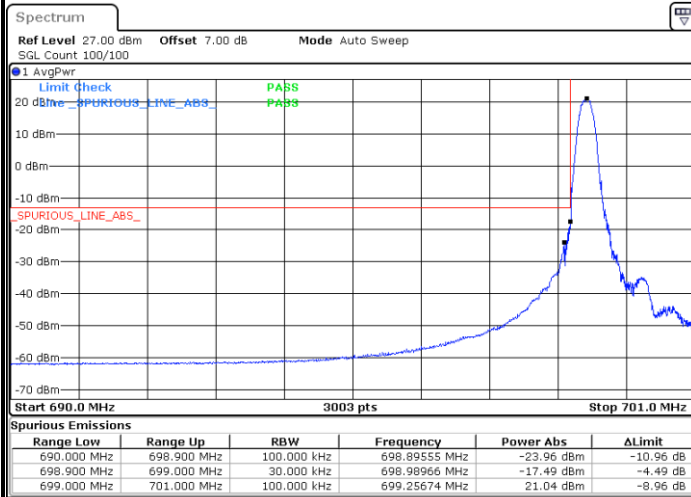
Date: 28,MAR,2026 10:41:37



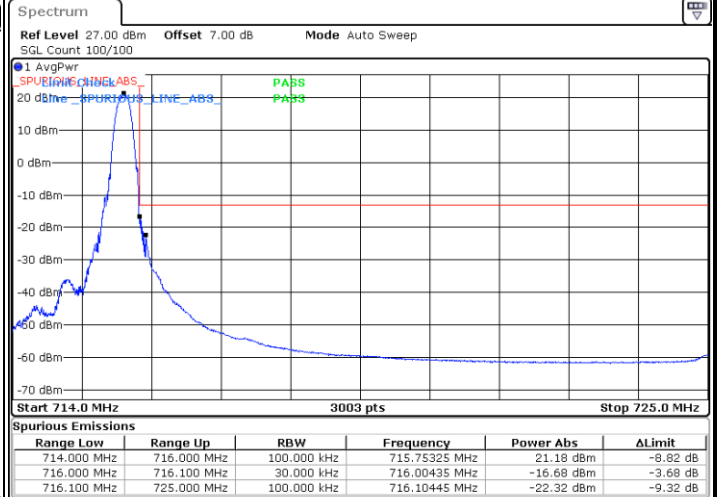
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

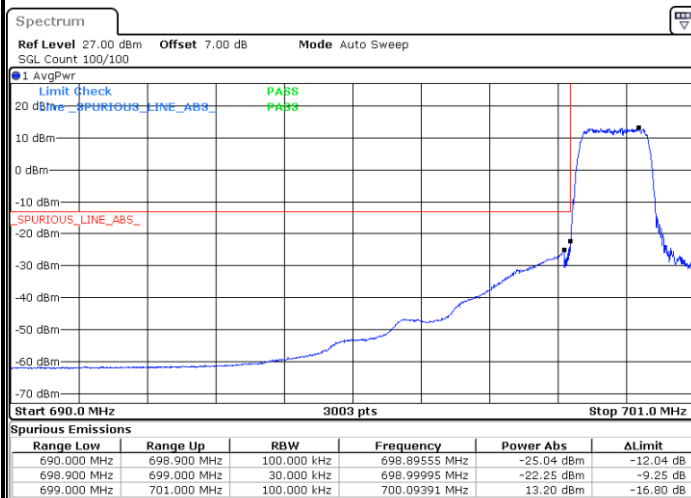
Lowest Band Edge / 1RB



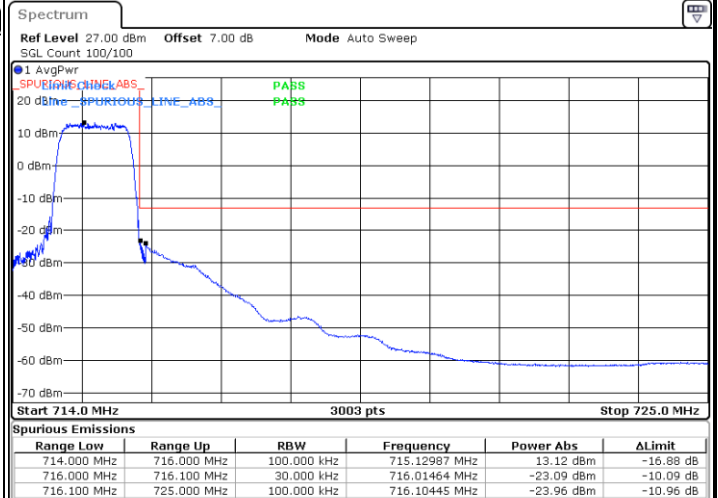
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



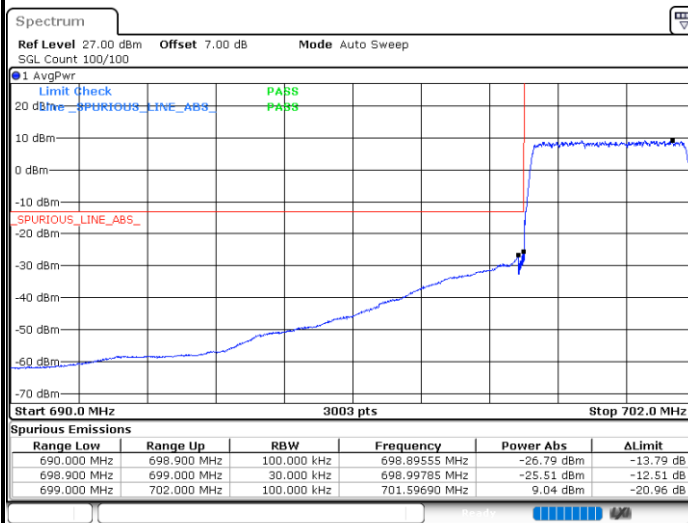
Highest Band Edge / Full RB



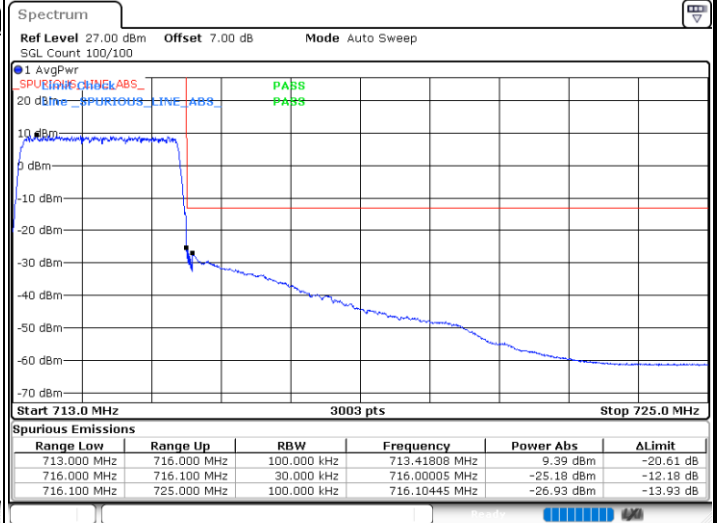


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

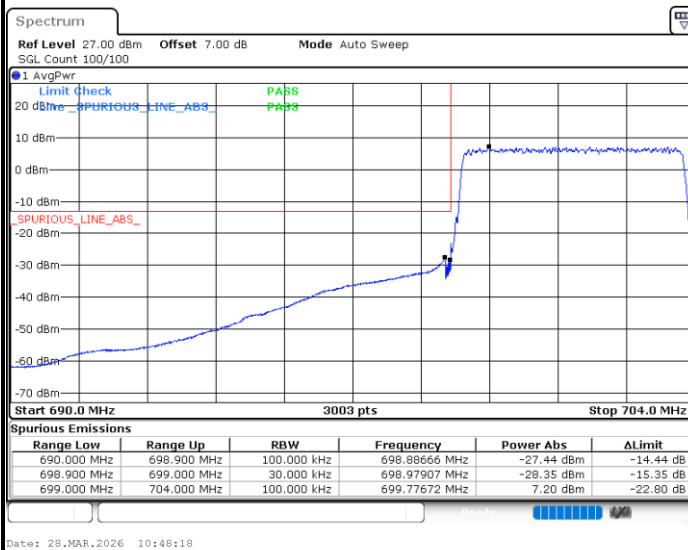


Highest Band Edge / Full RB

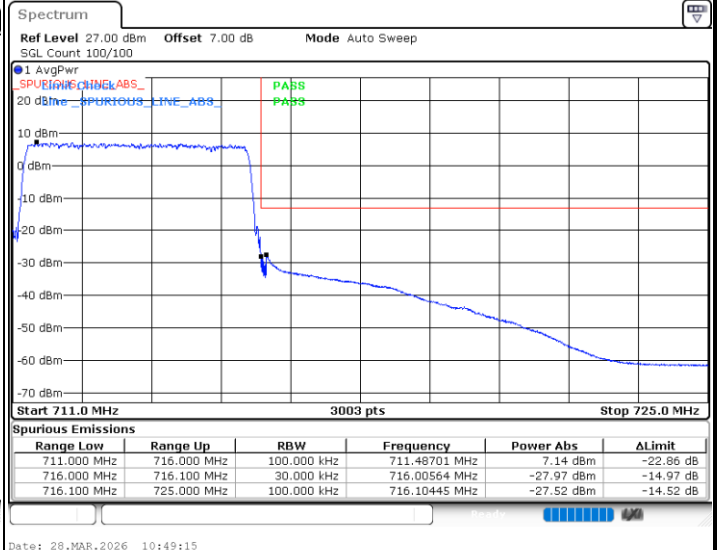


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

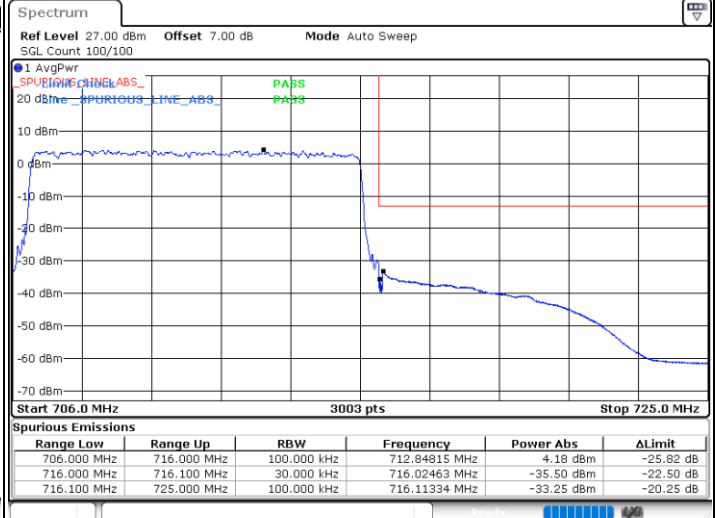
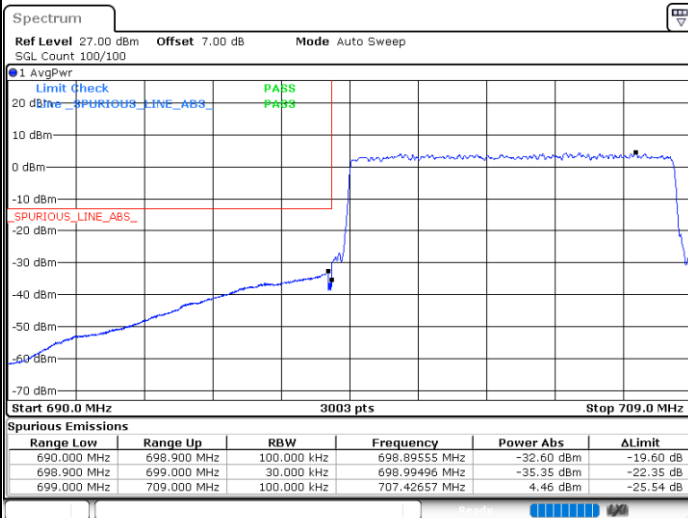




LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

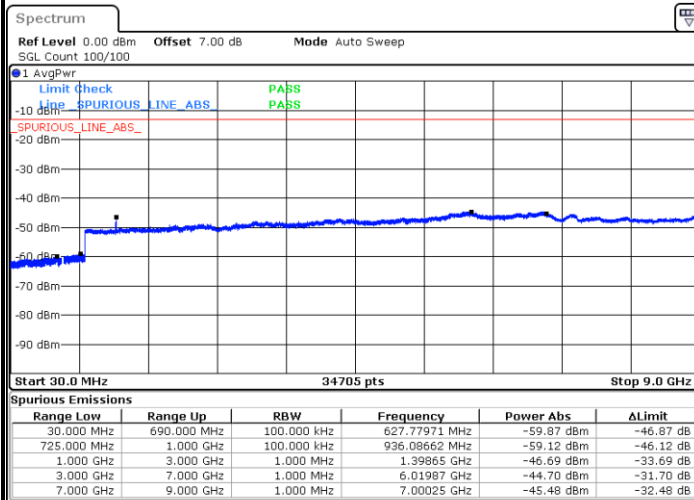




Conducted Spurious Emission

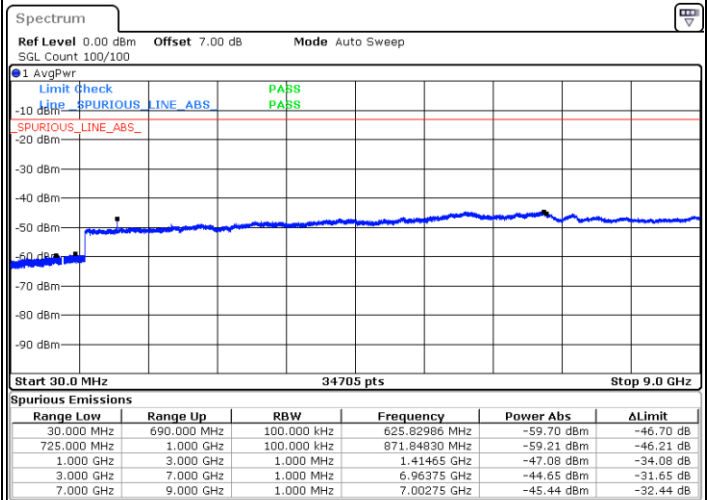
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



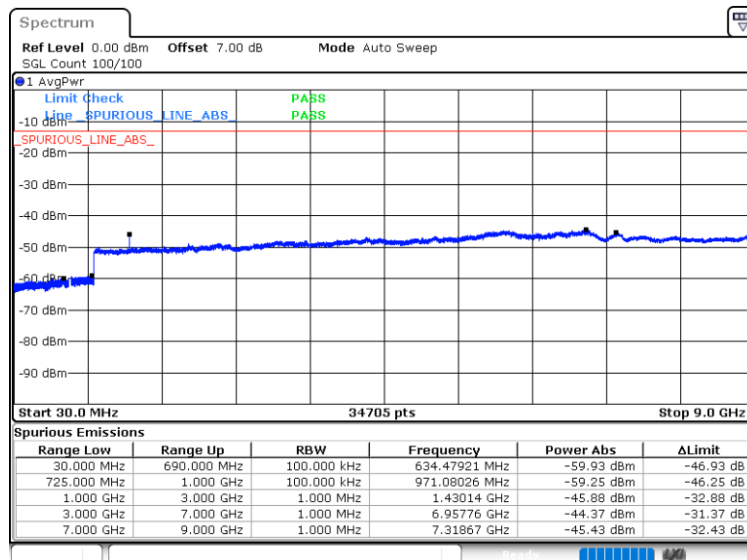
Date: 28.MAR.2026 10:32:05

Middle Channel / QPSK



Date: 28.MAR.2026 10:33:12

Highest Channel / QPSK

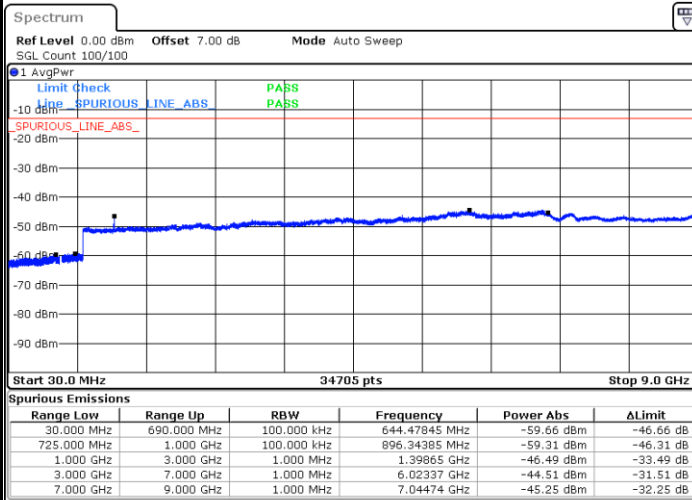


Date: 28.MAR.2026 10:36:13

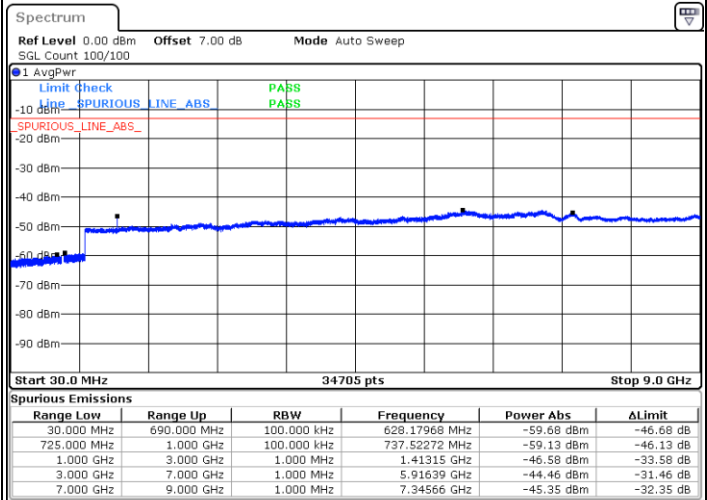


LTE Band 12 / 3MHz

Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

