



RF MEASUREMENT REPORT

FCC ID: 2AQVU0064

Applicant: JOYTECH HEALTHCARE CO., LTD.

Product: Arm-type Fully Automatic Digital Blood Pressure Monitor

Model No.: DBP-61D7G

FCC Rule(s): Part 2, 22 (H), 27

Result: Complies

Received Date: 2025-04-02

Test Date: 2025-04-10 ~ 2025-04-16

Reviewed By:

Denise Zhou

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1001045-U301	V01	Initial Report	2025-05-21	Valid

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1. General Information

1.1. Applicant

JOYTECH HEALTHCARE CO., LTD.

No.365, Wuzhou Road, Hangzhou City, Zhejiang, China 311100

1.2. Manufacturer

JOYTECH HEALTHCARE CO., LTD.

No.365, Wuzhou Road, Hangzhou City, Zhejiang, China 311100

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
	CNAS: L10551 ISED: CN0001
☐	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284
CNAS: L10551 ISED: CN0105	
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261
ISED: TW3261	

1.4. Product Information

Product Name	Arm-type Fully Automatic Digital Blood Pressure Monitor
Model No.	DBP-61D7G
Serial Number	61D7G241200011 (Radiated) 61D7G241200010 (Conducted)
3GPP Specification	LTE Cat 1bis Band 5/38/41
Antenna Specification	Refer to Section 1.6
Operating Temperature Range	10 ~ 40 °C
Power Type	AC/DC Adapter
Accessory	
AC/DC Adapter	Model No.: MPSUL0501000 Input: 100-240V ~ 50/60Hz, 0.25A Output: 5.0V = 1000mA
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Testing

E-UTRA Cat 1bis Specification	
FDD TX Frequency Range	Band 5: 824 ~ 849MHz; Band 38: 2570 ~ 2620MHz; Band 41: 2496 ~ 2690MHz
FDD RX Frequency Range	Band 5: 869 ~ 894MHz; Band 38: 2570 ~ 2620MHz; Band 41: 2496 ~ 2690MHz
Support Bandwidth	Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz Band 38, 41: 5MHz, 10MHz, 15MHz, 20MHz
Support Power Class	PC3
Modulation	UL up to 16QAM

1.6. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Cat 1bis Band 5	824 ~ 849	Fixed Internal Antenna	2.78
LTE Cat 1bis Band 38	2570 ~ 2620		2.07
LTE Cat 1bis Band 41	2496 ~ 2690		2.37
Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.			

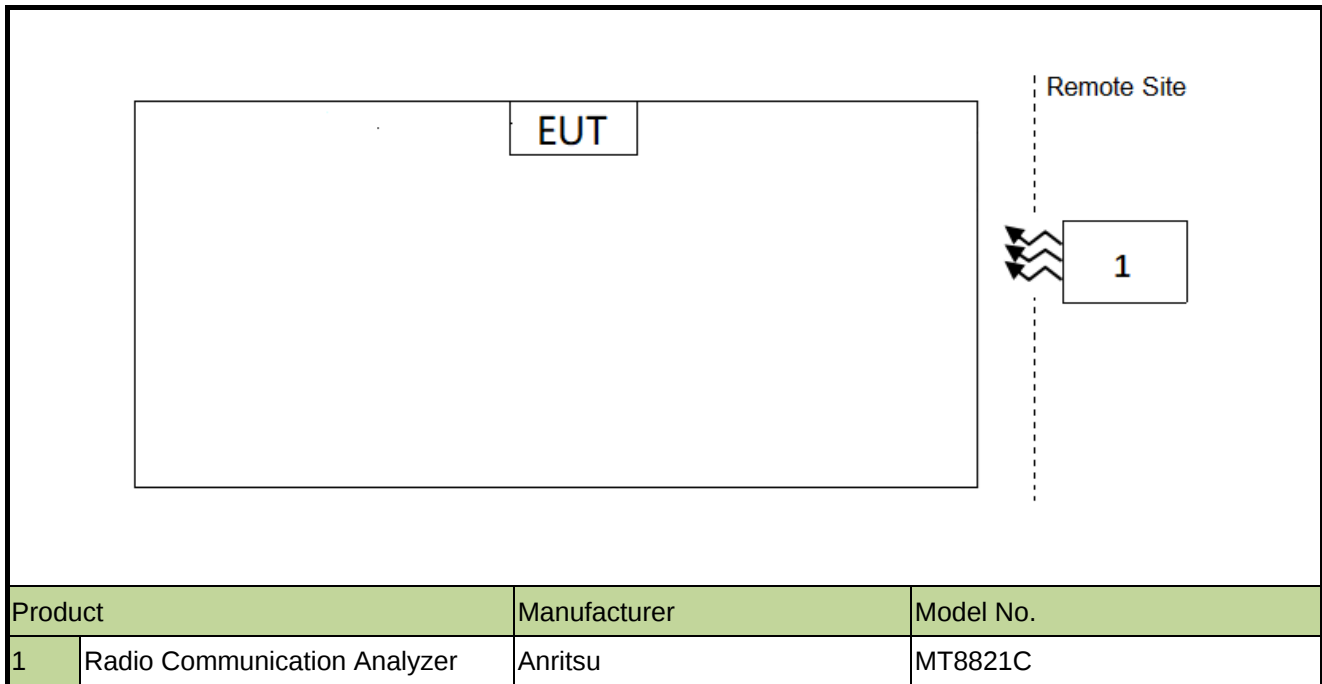
1.7. Test Methodology

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

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r02: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

2. Test Configuration

2.1. Test System Connection Diagram



2.2. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2025-12-10	WZ-TR3
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR6
Thermohygrometer	testo	608-H1	MRTSUE06362	1 year	2026-01-23	WZ-SR6
Shielding Room	HUAMING	WZ-SR6	MRTSUE06443	N/A	N/A	WZ-SR6
Signal Analyzer	Keysight	N9020B	MRTSUE06583	1 year	2025-12-23	WZ-SR6
Radio Communication Analyzer	Anritsu	MT8821C	MRTSUE06960	1 year	2025-06-18	WZ-SR6
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2026-01-09	WZ-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06987	1 year	2025-09-06	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2026-01-04	WZ-AC2

Software	Version	Function
e3	230711	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & Turntable
UCTS	V 6.23.217.99	license 3G & 4G & 5G
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions	
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
Coaxial:	9kHz~30MHz: 2.35dB
Coplanar:	9kHz~30MHz: 2.37dB
Horizontal:	30MHz~200MHz: 3.46dB
	200MHz~1GHz: 3.78dB
	1GHz~40GHz: 4.97dB
Vertical:	30MHz~200MHz: 4.07dB
	200MHz~1GHz: 5.28dB
	1GHz~40GHz: 4.78dB
Conducted Spurious Emissions	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
1.47dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
0.66dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
69.28kHz	
Frequency Stability	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
8.04Hz	

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
2.1049	Occupied Bandwidth	Conducted	Pass
2.1055, 22.355, 27.54	Frequency Stability		Pass
22.913(a)(5) 27.50 (h)(2)	Equivalent Radiated Power		Pass
22.913(d)	Peak-to-Average Power Ratio		Pass
2.1051, 22.917(a) 27.53 (m)(4)	Transmitter unwanted emissions (band-edge)		Pass
2.1051, 22.917(a) 27.53 (m)(4)	Transmitter unwanted emissions (spurious)		
2.1053, 22.917(a) 27.53 (m)(4)	Transmitter Spurious Emissions	Radiated	Pass

Notes:

- 1) The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
- 2) All supported modulation types were evaluated, and the worst-case emission from modulation types was selected. Therefore, the worst-case results for Frequency Stability, Peak-to-Average Power Ratio, Channel Band Edge, Conducted Spurious Emission, Radiated Spurious Emission were presented in the test report.
- 3) For the radiated emission tests, each axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- 4) LTE Band 41 (2496 ~ 2690 MHz) overlaps the entire frequency range of LTE Band 38 (2570 ~ 2620 MHz). Therefore, the test data provided in this report covers Band 38 as well as Band 41.

5.2. Occupied Bandwidth Measurement

5.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

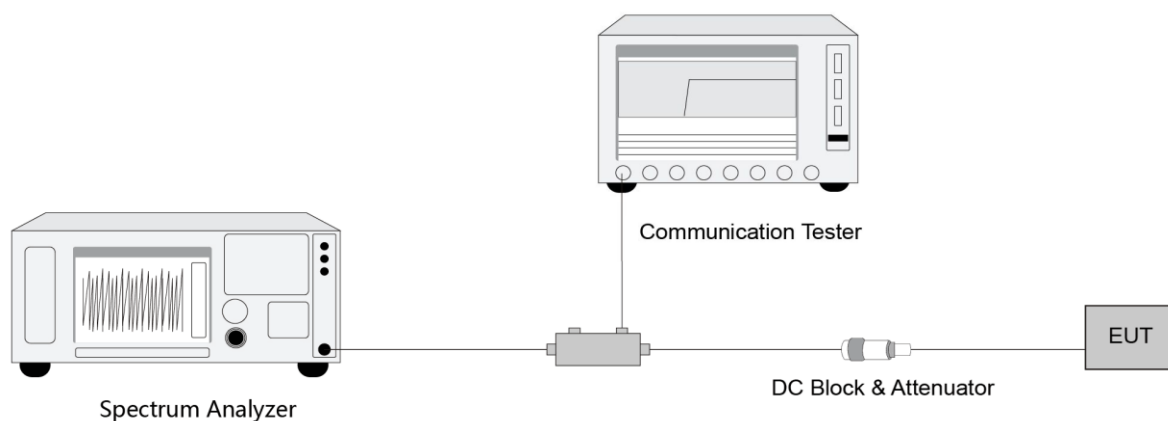
5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4.4

5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Frequency Stability Measurement

5.3.1. Test Limit

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. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3. Test Setting

1. A reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as f_L and f_H respectively.
2. Use the frequency error function of the instrument and record the frequency error.
3. Change the temperature of equipment and repeat Steps 2.
4. Change the Voltage of equipment and repeat Steps 2.
5. The frequency error offset determined in the above methods shall be added or subtracted from the values of f_L and f_H and the resulting frequencies must remain within the band

Frequency Stability Under Temperature Variations:

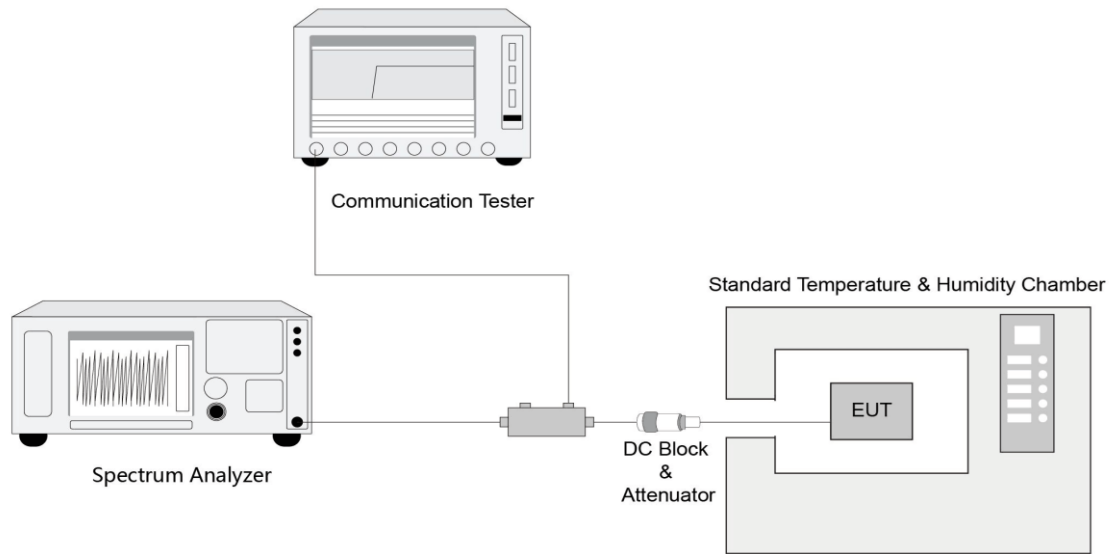
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply/DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Equivalent Isotropically Radiated Power Measurement

5.4.1. Test Limit

Band 5:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Band 38/41:

Mobile stations are limited to 2.0 watts EIRP.

5.4.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.4.2

5.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T$$

where

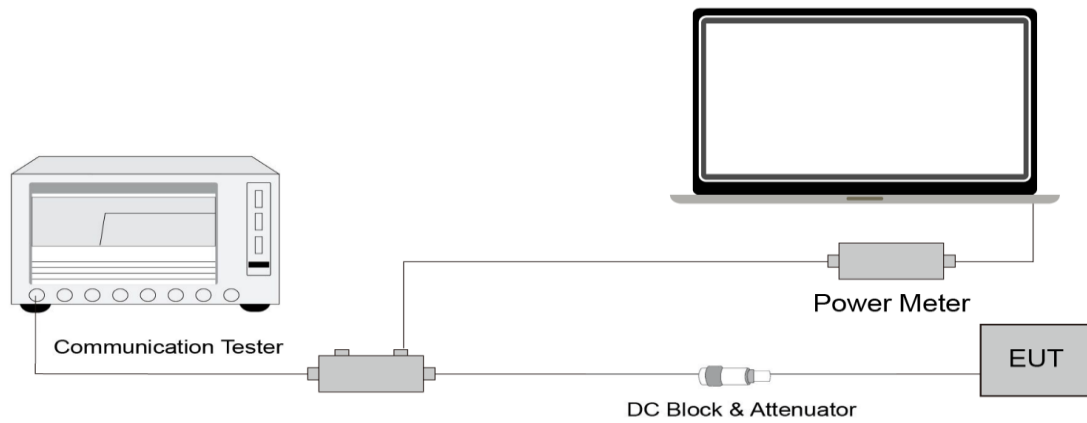
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

$$\text{ERP} = \text{EIRP} - 2.15$$

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Peak-to-Average Power Ratio Measurement

5.5.1. Test Limit

The peak-to-average power ratio (PAPR) of the transmission must not exceed 13 dB.

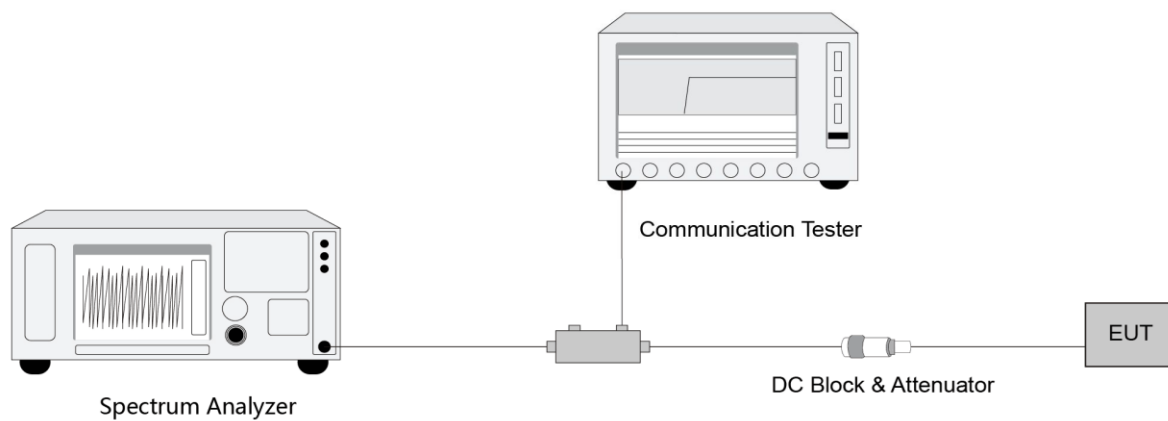
5.5.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

5.5.3. Test Setting

1. Set the resolution/measurement bandwidth $\geq$ signal's occupied bandwidth
2. Set the number of counts to a value that stabilizes the measured CCDF curve
3. Record the maximum PAPR level associated with a probability of 0.1%

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4

5.6. Conducted Band-Edge Measurement

5.6.1. Test Limit

22.917(a)

For operations in the 824 ~ 849 MHz, The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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.

5.6.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

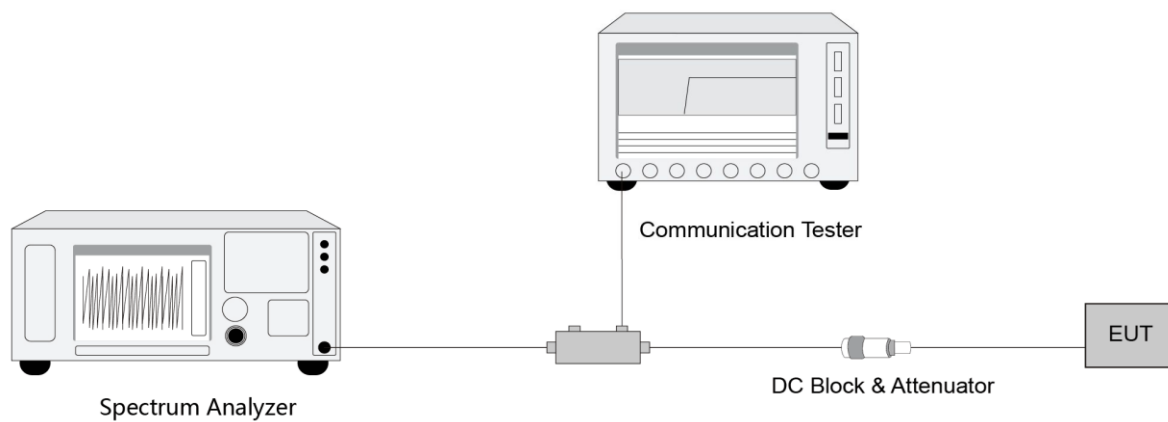
5.6.3. Test Setting

1. Set the analyzer frequency to Low or High channel
2. RBW = specified resolution bandwidth, for improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the frequency block group, provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3 \cdot RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. If the EUT can be configured to transmit continuously, then set the trigger to free run
7. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to

enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints

8. Compute the power by integrating the spectrum across the specified resolution bandwidth using the instrument's band or channel power measurement function, with the band/channel limits set equal to the specified resolution bandwidth, when using a measurement bandwidth smaller than the specified bandwidth. Otherwise, Use the peak marker function to determine the maximum amplitude level.

5.6.4. Test Setup



5.6.5. Test Result

Refer to Appendix A.5.

5.7. Conducted Spurious Emissions Measurement

5.7.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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

For Band 38 and Band 41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB.

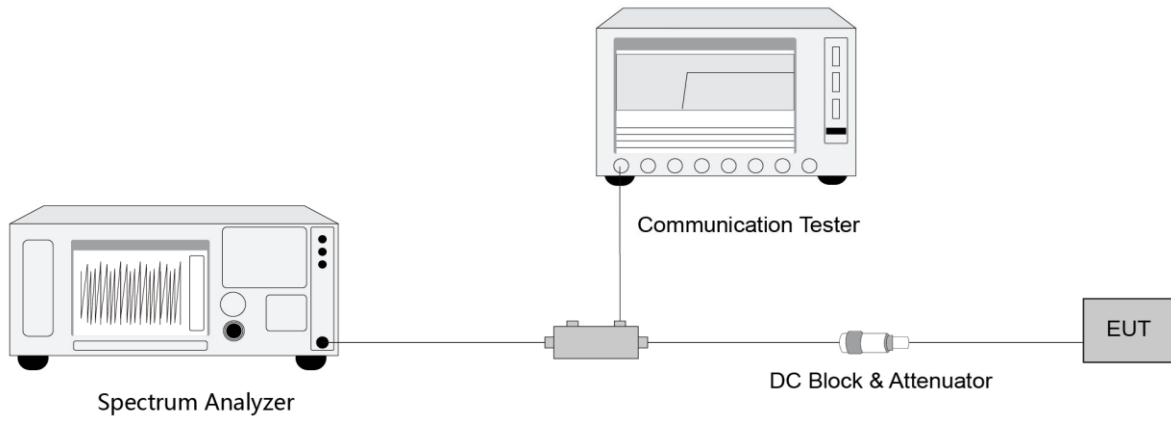
5.7.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.7.3. Test Setting

1. Set the analyzer frequency to low, Mid or high channel.
2. RBW = specified resolution bandwidth
3. VBW $\geq 3 \times$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. If the EUT can be configured to transmit continuously, then set the trigger to free run
7. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration.
Time gating can also be used under similar constraints
8. Use the peak marker function to determine the maximum amplitude level.

5.7.4. Test Setup



5.7.5. Test Result

Refer to Appendix A.6

5.8. Radiated Spurious Emissions Measurement

5.8.1. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

For Band 38 and Band 41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 82.3dB $\mu\text{V/m}$ or 70.3dB $\mu\text{V/m}$.

5.8.2. Test Procedure

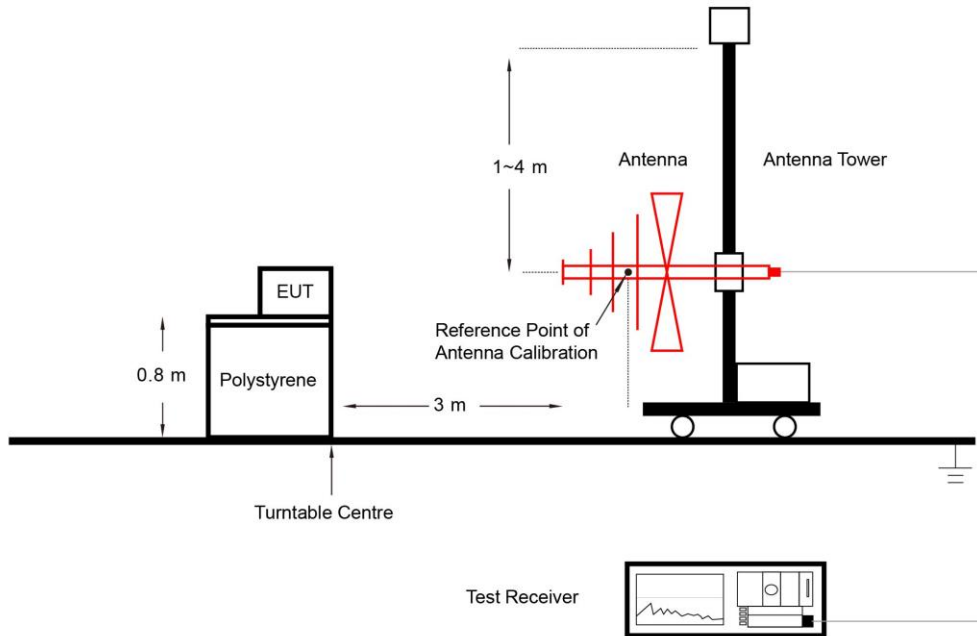
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.8.3. Test Setting

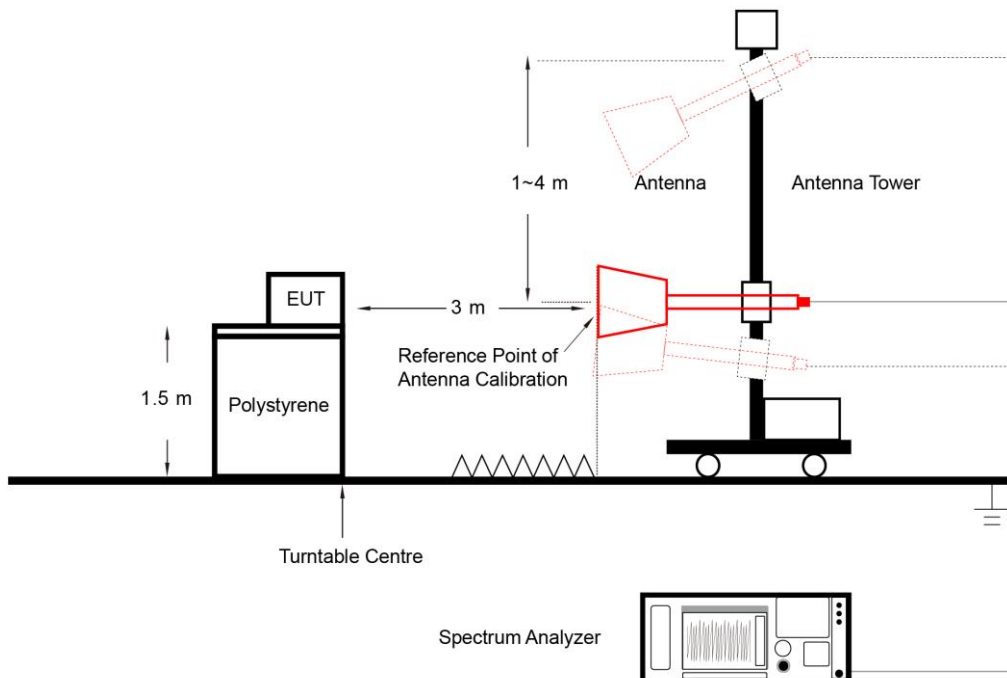
1. RBW = 120kHz or 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})$
4. Detector = CISPR quasi-peak / average detector (Below 1 GHz, compliance with the limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth. Above 1 GHz, compliance with the limits shall be demonstrated using a linear average detector with a minimum resolution bandwidth of 1 MHz.)
5. The trace was allowed to stabilize

5.8.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.8.5. Test Result

Refer to Appendix A.7.

Appendix A - Test Result

A.1 Occupied Bandwidth Test Result

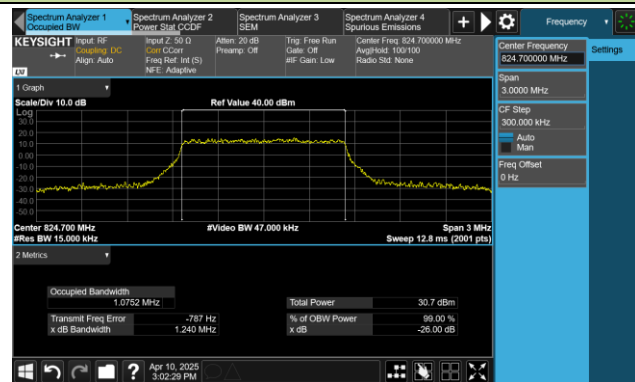
Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10 ~ 2025-04-11	Test Band	Band 5

Modulation	Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK	1.4	824.7	1.0752
		836.5	1.0766
		848.3	1.0777
	3	825.5	2.6812
		836.5	2.6871
		847.5	2.6885
	5	826.5	4.4614
		836.5	4.4588
		846.5	4.4732
	10	829.0	8.9366
		836.5	8.9739
		844.0	8.9064
16QAM	1.4	824.7	1.0812
		836.5	1.0815
		848.3	1.0815
	3	825.5	2.6806
		836.5	2.6729
		847.5	2.6764
	5	826.5	4.4705
		836.5	4.4581
		846.5	4.4629
	10 (27RB)	829.0	4.8778
		836.5	4.8876
		844.0	4.8608

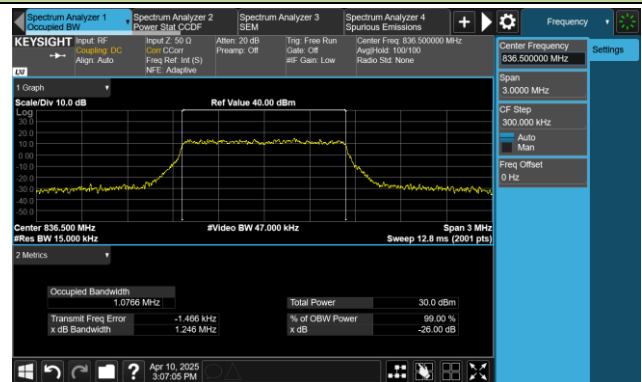
Note: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.

99% Bandwidth – 1.4MHz – QPSK

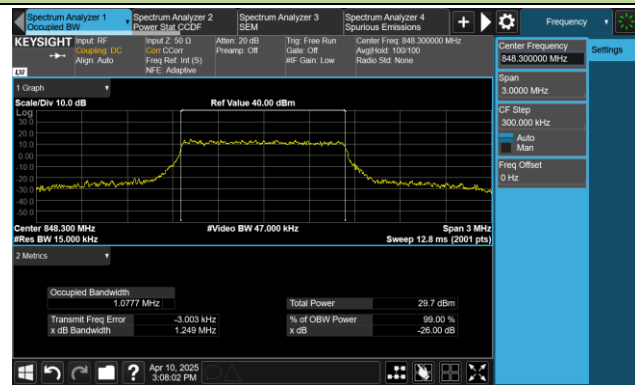
Low Channel



Middle Channel

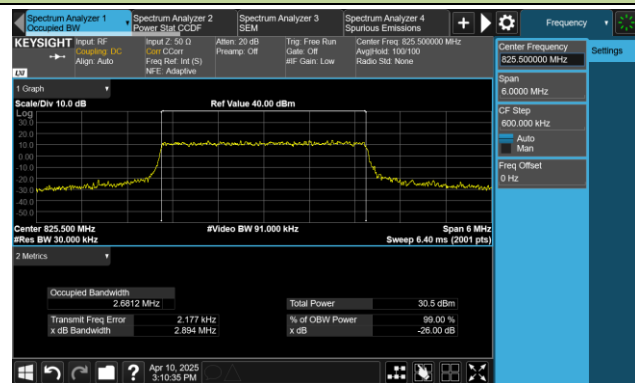


High Channel

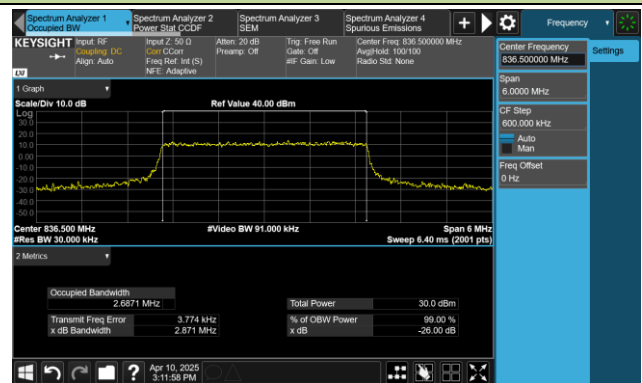


99% Bandwidth – 3MHz – QPSK

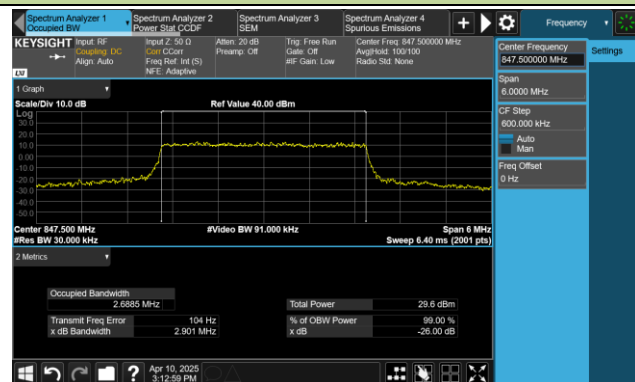
Low Channel



Middle Channel

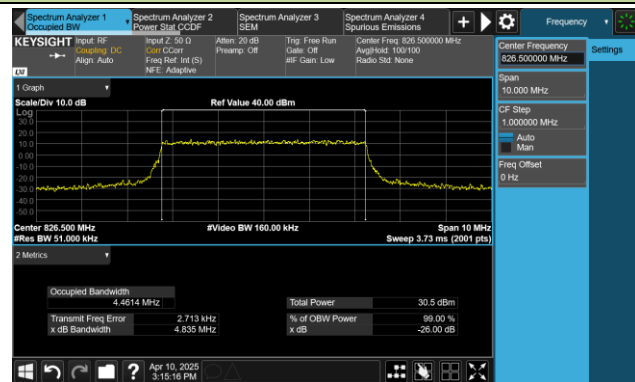


High Channel

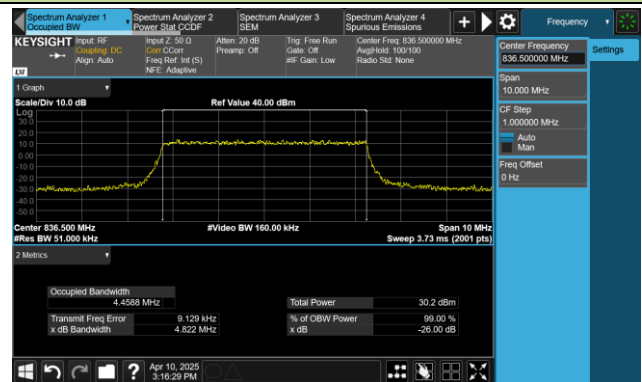


99% Bandwidth – 5MHz – QPSK

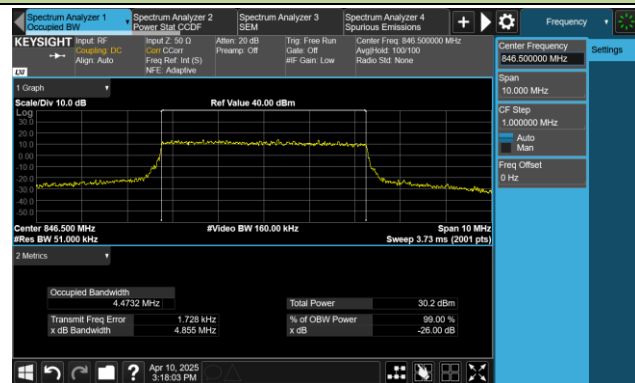
Low Channel



Middle Channel

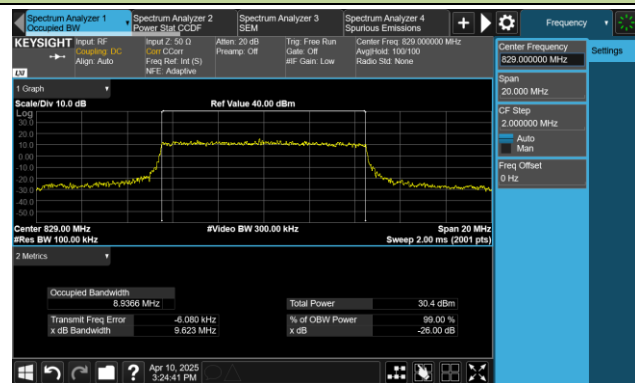


High Channel

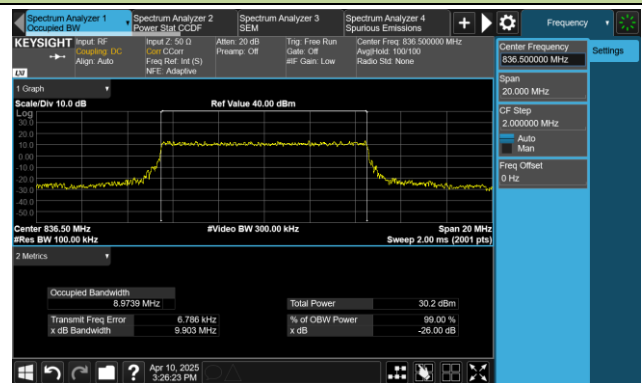


99% Bandwidth – 10MHz – QPSK

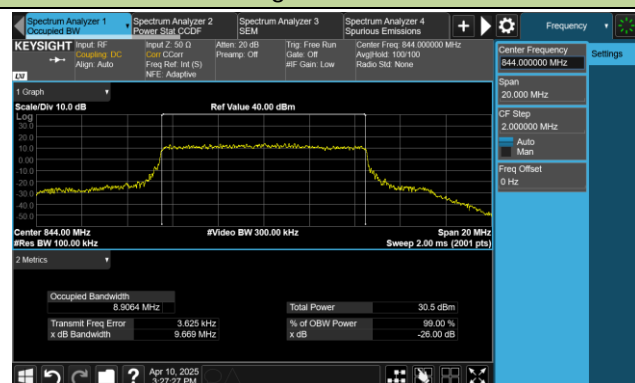
Low Channel



Middle Channel

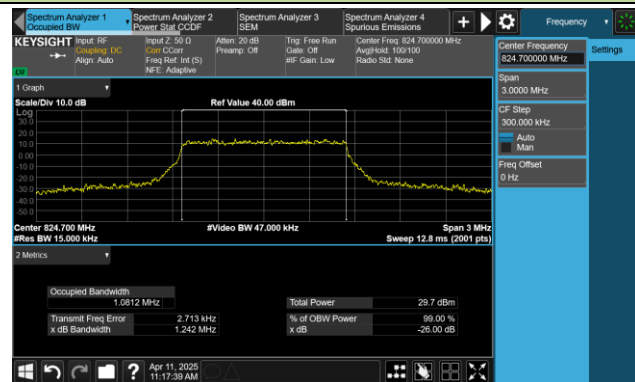


High Channel

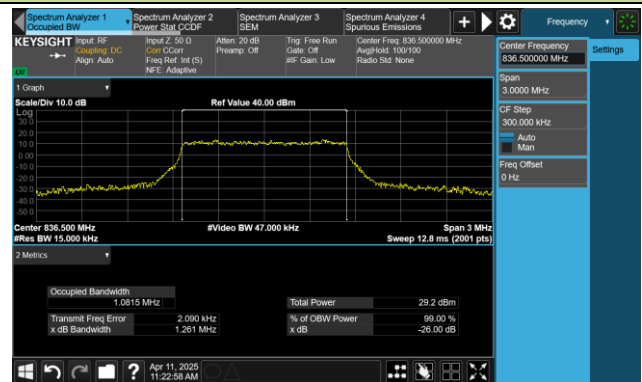


99% Bandwidth – 1.4MHz – 16QAM

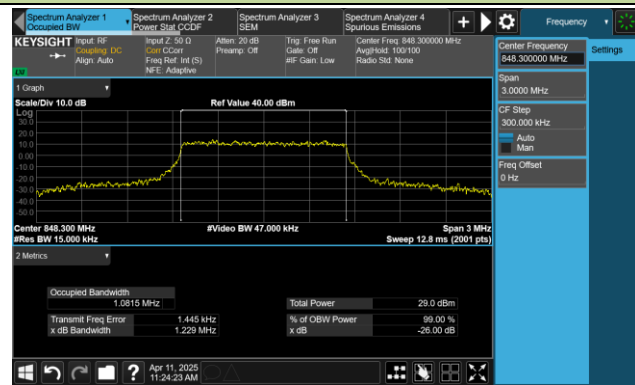
Low Channel



Middle Channel

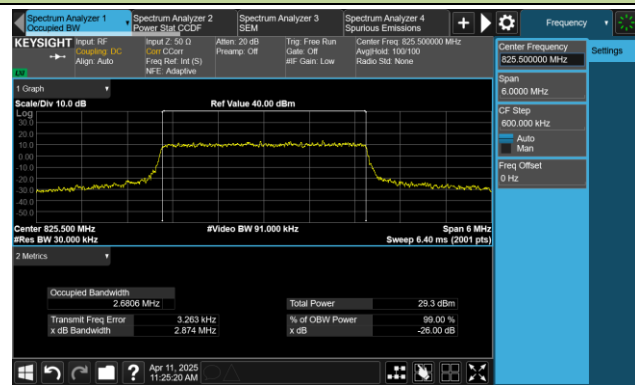


High Channel

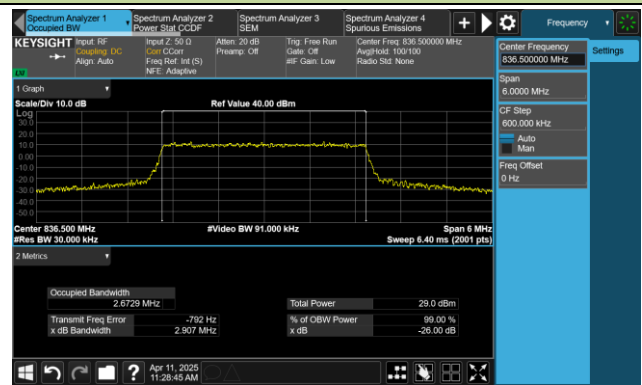


99% Bandwidth – 3MHz – 16QAM

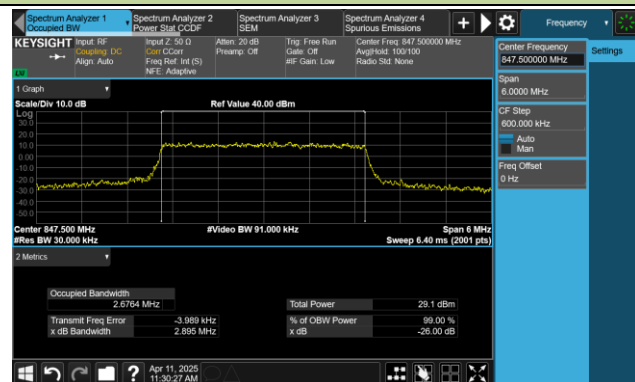
Low Channel



Middle Channel

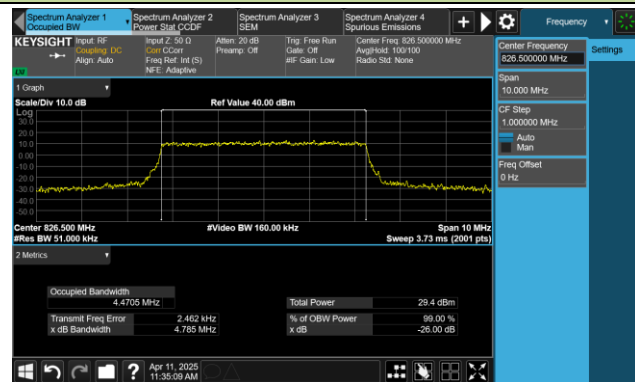


High Channel

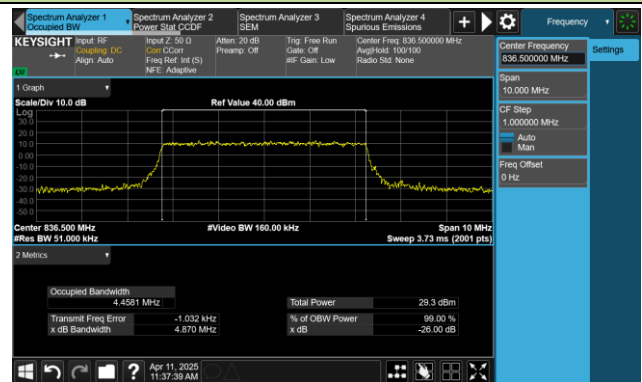


99% Bandwidth – 5MHz – 16QAM

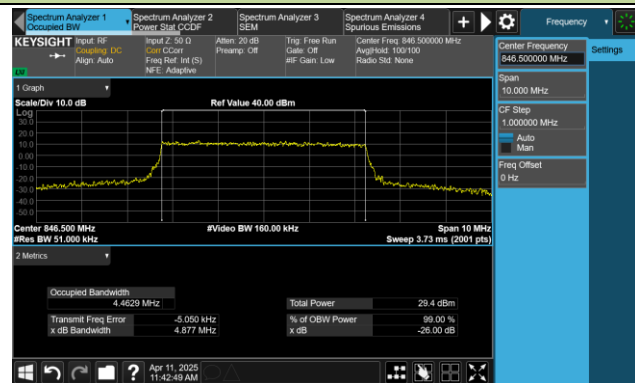
Low Channel



Middle Channel

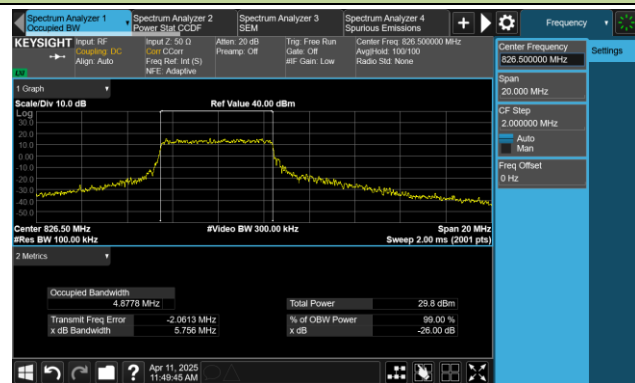


High Channel

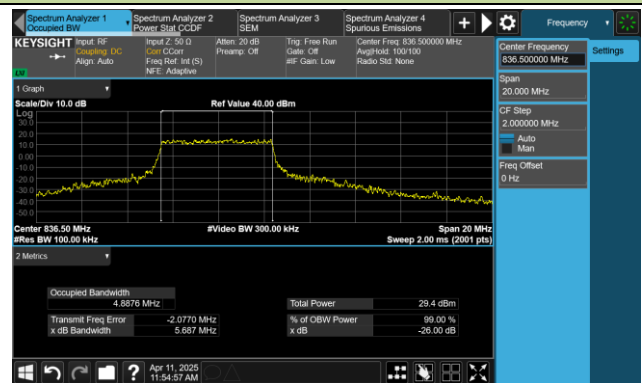


99% Bandwidth – 10MHz – 16QAM

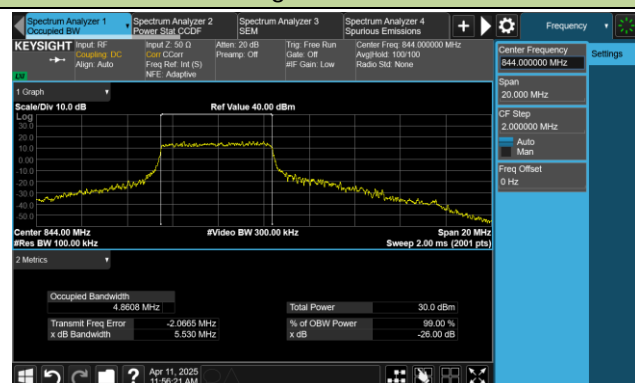
Low Channel



Middle Channel



High Channel



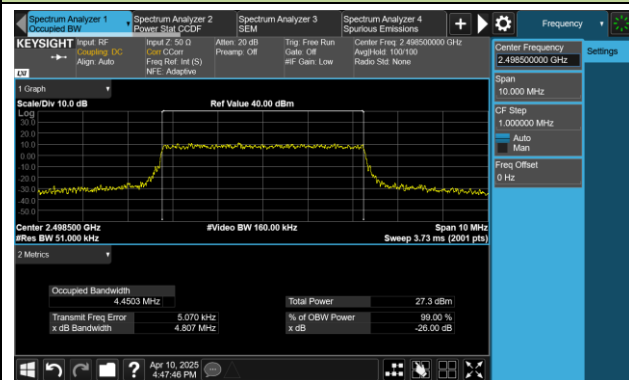
Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10 ~ 2025-04-11	Test Band	Band 38/41

Modulation	Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)
QPSK	5	2498.5	4.4503
		2593.0	4.4623
		2687.5	4.4630
	10	2501.0	8.9137
		2593.0	8.9152
		2685.0	8.9198
	15	2503.5	13.374
		2593.0	13.387
		2682.5	13.389
	20	2506.0	17.898
		2593.0	17.895
		2680.0	17.901
16QAM	5	2498.5	4.4621
		2593.0	4.4682
		2687.5	4.4690
	10 (27RB)	2501.0	4.8721
		2593.0	4.8716
		2685.0	4.8843
	15 (27RB)	2503.5	4.8850
		2593.0	4.8968
		2682.5	4.9041
	20 (27RB)	2506.0	4.9017
		2593.0	4.9005
		2680.0	4.9095

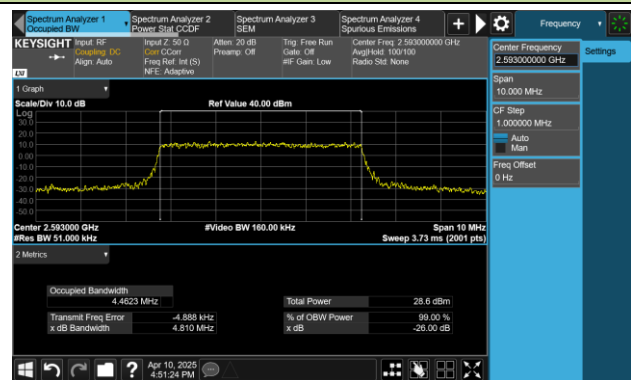
Note: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.

99% Bandwidth – 5MHz – QPSK

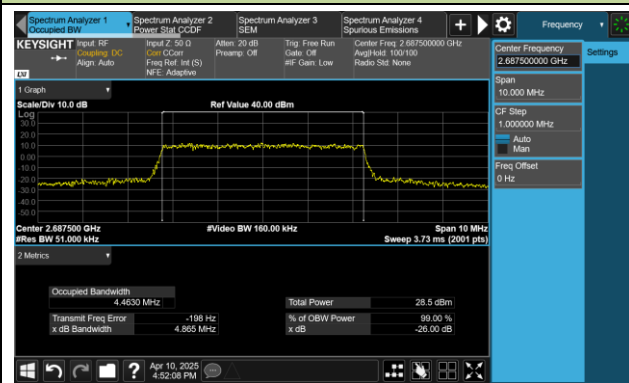
Low Channel



Middle Channel

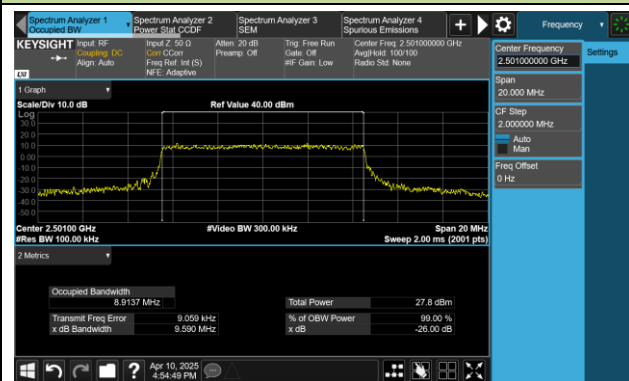


High Channel

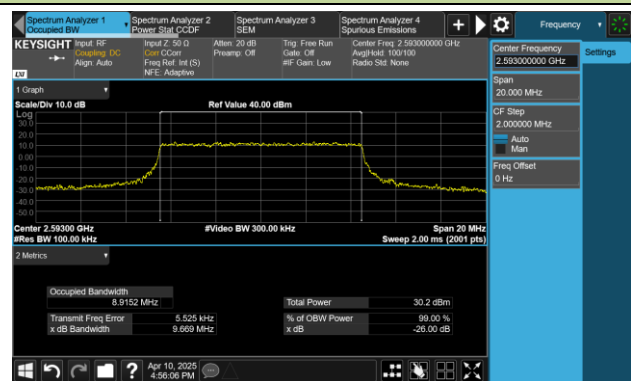


99% Bandwidth – 10MHz – QPSK

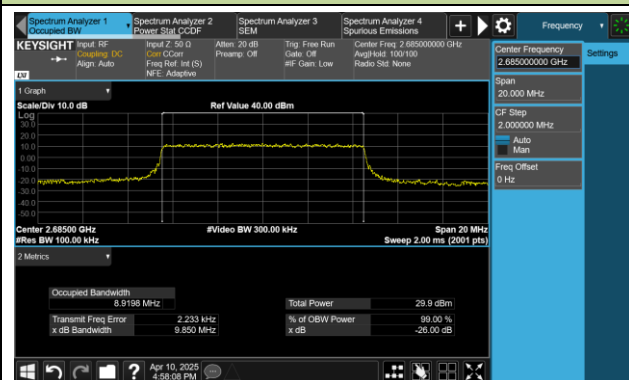
Low Channel



Middle Channel

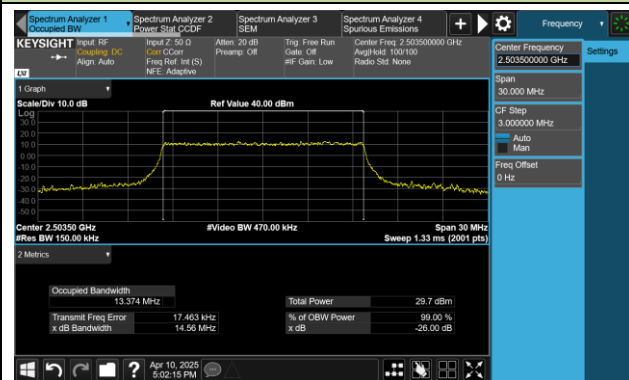


High Channel

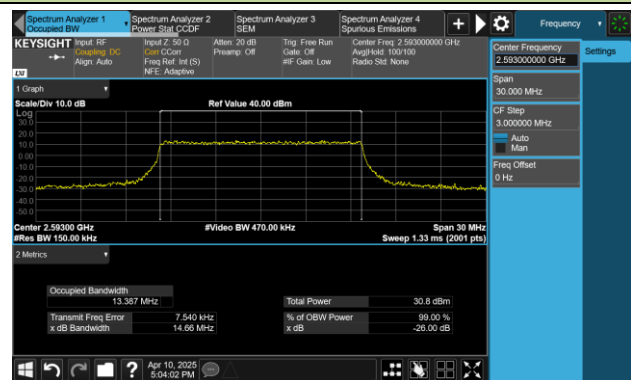


99% Bandwidth – 15MHz – QPSK

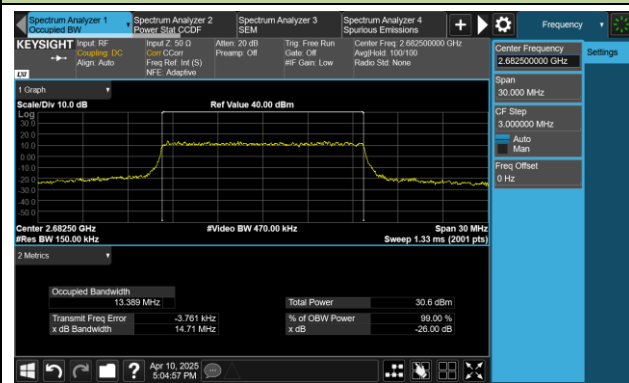
Low Channel



Middle Channel

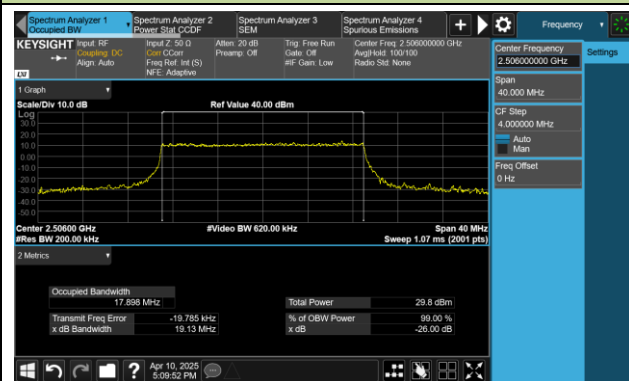


High Channel

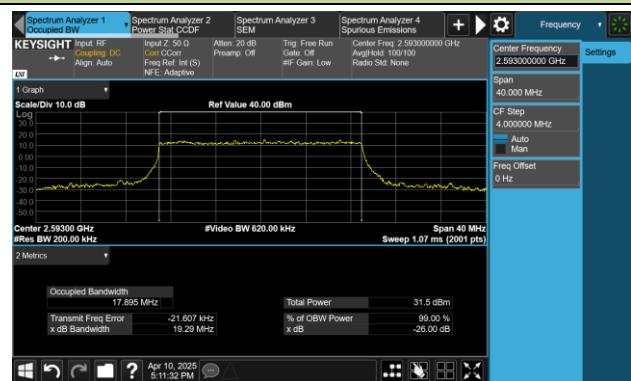


99% Bandwidth – 20MHz – QPSK

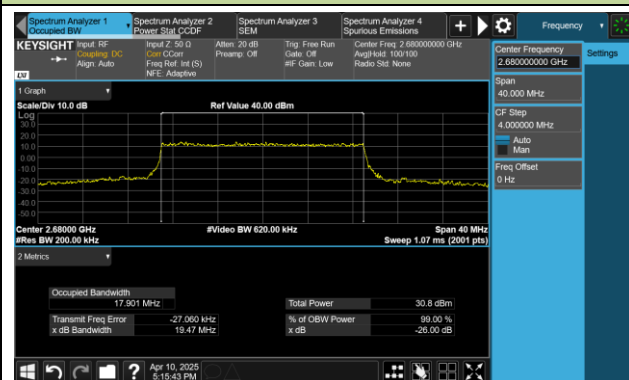
Low Channel



Middle Channel

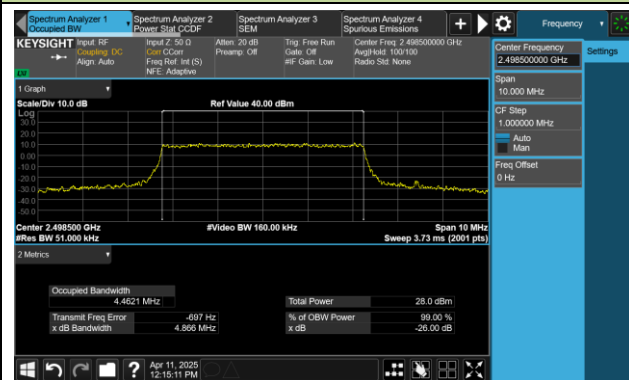


High Channel

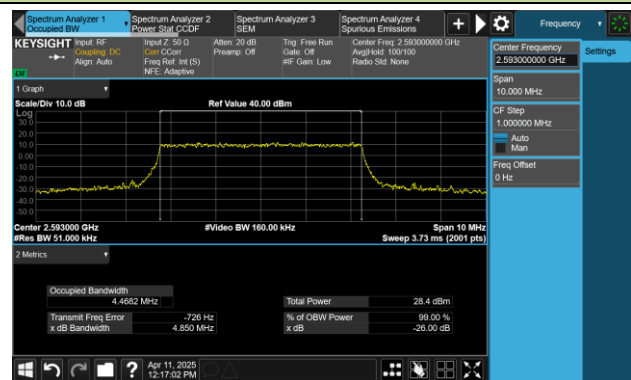


99% Bandwidth – 5MHz – 16QAM

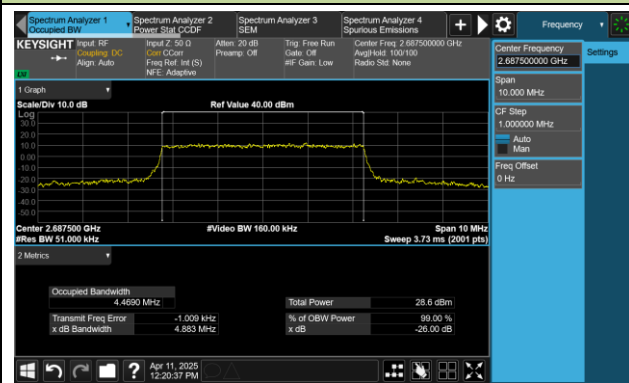
Low Channel



Middle Channel

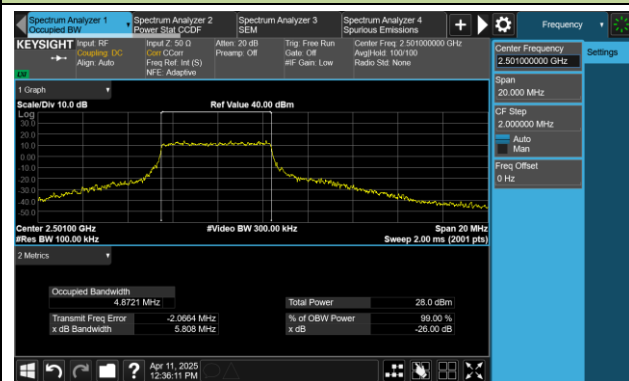


High Channel

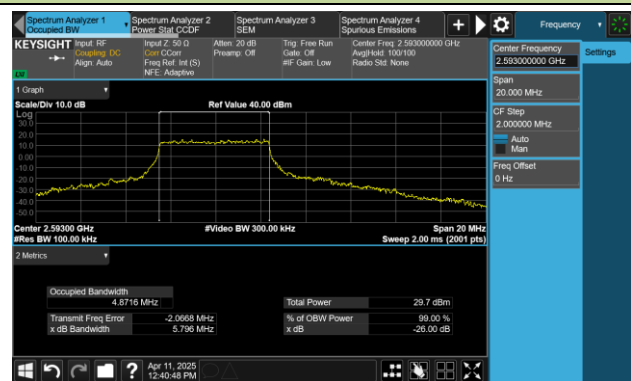


99% Bandwidth – 10MHz – 16QAM

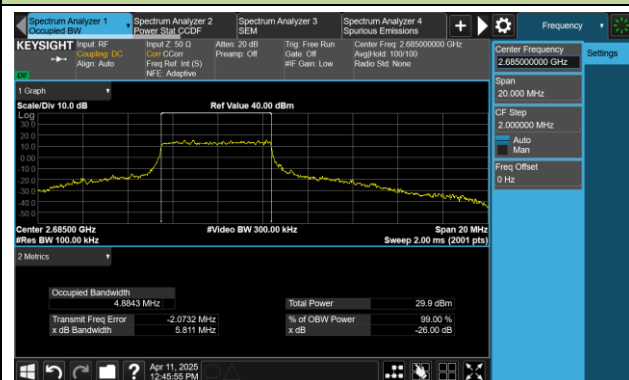
Low Channel



Middle Channel

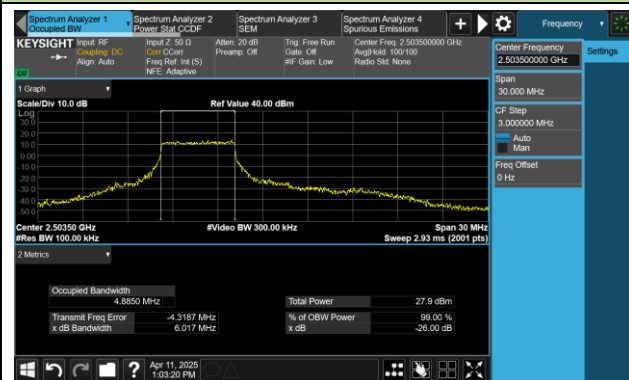


High Channel

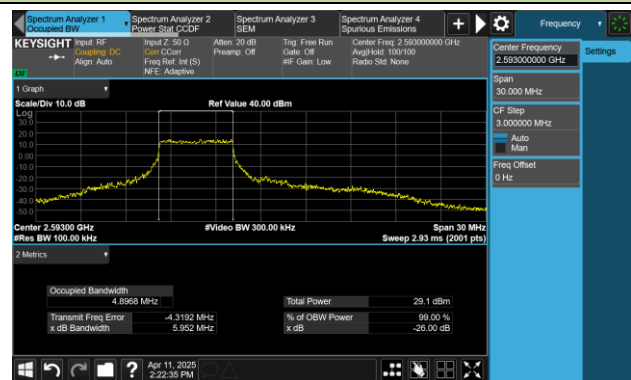


99% Bandwidth – 15MHz – 16QAM

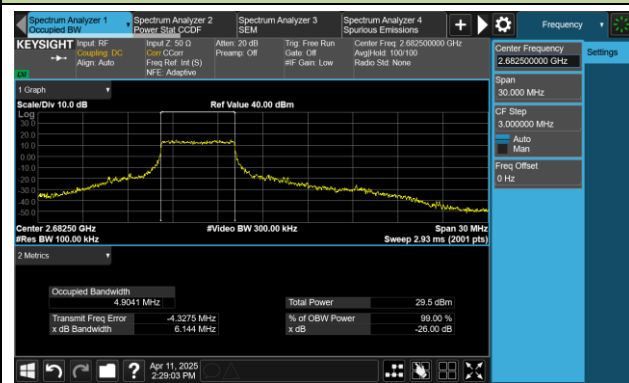
Low Channel



Middle Channel

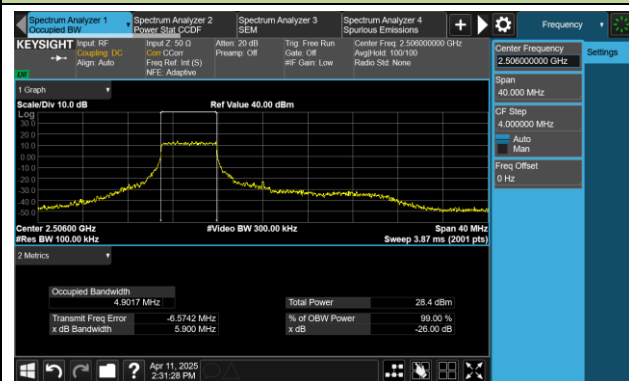


High Channel

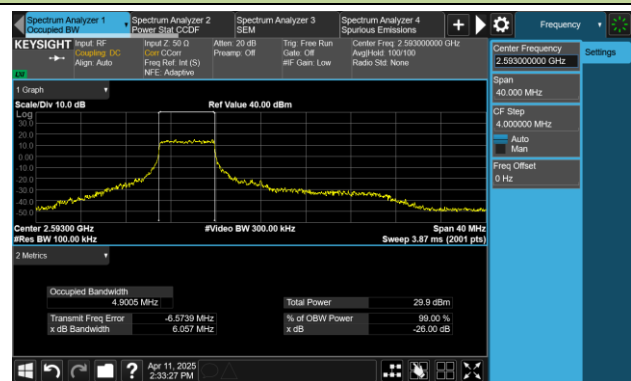


99% Bandwidth – 20MHz – 16QAM

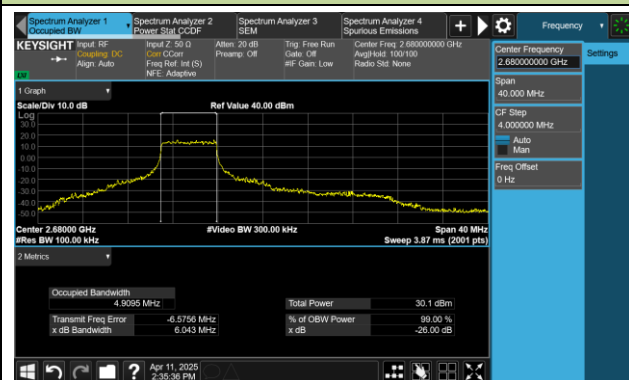
Low Channel



Middle Channel



High Channel



A.2 Frequency Stability Test Result

Test Site	WZ-TR3	Test Engineer	Edith Yu
Test Date	2025-04-10	Test Band	Band 5

Voltage	Temp (°C)	Frequency Range (MHz)		Delta (Hz)	Frequency stability (ppm)	Within Authorized Frequency Block
		824	849			
		f _L	f _H			
Normal	+ 20 (Ref)	824.1200	848.8635	0.00	0.0000	Pass
	+ 50	824.1200	848.8635	1.30	0.0016	Pass
	+ 40	824.1200	848.8635	6.30	0.0075	Pass
	+ 30	824.1200	848.8635	5.90	0.0071	Pass
	+ 10	824.1200	848.8635	5.10	0.0061	Pass
	0	824.1200	848.8635	0.50	0.0006	Pass
	- 10	824.1200	848.8635	3.80	0.0045	Pass
	- 20	824.1200	848.8635	-0.50	-0.0006	Pass
	- 30	824.1200	848.8635	4.50	0.0054	Pass
15%	+ 20	824.1200	848.8635	0.30	0.0004	Pass
-15%	+ 20	824.1200	848.8635	1.00	0.0012	Pass

Test Site	WZ-TR3	Test Engineer	Edith Yu
Test Date	2025-04-10	Test Band	Band 38/41

Voltage	Temp (°C)	Frequency Range (MHz)		Delta (Hz)	Frequency stability (ppm)	Within Authorized Frequency Block
		2496	2690			
		f _L	f _H			
Normal	+ 20 (Ref)	2496.2200	2689.8250	0.00	0.0000	Pass
	+ 50	2496.2200	2689.8250	-11.10	-0.0043	Pass
	+ 40	2496.2200	2689.8250	-12.20	-0.0047	Pass
	+ 30	2496.2200	2689.8250	-1.90	-0.0007	Pass
	+ 10	2496.2200	2689.8250	-19.20	-0.0074	Pass
	0	2496.2200	2689.8250	-10.80	-0.0042	Pass
	- 10	2496.2200	2689.8250	-10.40	-0.0040	Pass
	- 20	2496.2200	2689.8250	-0.80	-0.0003	Pass
	- 30	2496.2200	2689.8250	1.10	0.0004	Pass
15%	+ 20	2496.2200	2689.8250	1.60	0.0006	Pass
-15%	+ 20	2496.2200	2689.8250	-4.30	-0.0017	Pass

A.3 Equivalent Isotropically Radited Power Test Result

Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10	Test Band	Band 5

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
1.4	824.7	1	0	24.56	25.19	< 38.45
	836.5			24.36	24.99	< 38.45
	848.3			24.36	24.99	< 38.45
1.4	824.7	1	2	24.64	25.27	< 38.45
	836.5			24.41	25.04	< 38.45
	848.3			24.21	24.84	< 38.45
1.4	824.7	1	5	24.66	25.29	< 38.45
	836.5			24.35	24.98	< 38.45
	848.3			23.84	24.47	< 38.45
1.4	824.7	6	0	23.80	24.43	< 38.45
	836.5			23.37	24.00	< 38.45
	848.3			23.23	23.86	< 38.45
3	825.5	1	0	24.39	25.02	< 38.45
	836.5			24.20	24.83	< 38.45
	847.5			24.42	25.05	< 38.45
3	825.5	1	7	24.52	25.15	< 38.45
	836.5			24.26	24.89	< 38.45
	847.5			24.29	24.92	< 38.45
3	825.5	1	14	24.18	24.81	< 38.45
	836.5			24.20	24.83	< 38.45
	847.5			23.54	24.17	< 38.45
3	825.5	15	0	23.41	24.04	< 38.45
	836.5			23.10	23.73	< 38.45
	847.5			23.12	23.75	< 38.45
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK						
5	826.5	1	0	24.19	24.82	< 38.45
	836.5			23.93	24.56	< 38.45
	846.5			24.65	25.28	< 38.45
5	826.5	1	12	24.36	24.99	< 38.45
	836.5			24.08	24.71	< 38.45
	846.5			24.32	24.95	< 38.45
5	826.5	1	24	23.80	24.43	< 38.45
	836.5			24.14	24.77	< 38.45
	846.5			23.39	24.02	< 38.45
5	826.5	25	0	23.26	23.89	< 38.45
	836.5			23.06	23.69	< 38.45
	846.5			22.95	23.58	< 38.45
10	829.0	1	0	21.93	22.56	< 38.45
	836.5			24.03	24.66	< 38.45
	844.0			24.73	25.36	< 38.45
10	829.0	1	24	24.35	24.98	< 38.45
	836.5			24.54	25.17	< 38.45
	844.0			25.03	25.66	< 38.45
10	829.0	1	49	24.10	24.73	< 38.45
	836.5			24.84	25.47	< 38.45
	844.0			23.46	24.09	< 38.45
10	829.0	27	0	23.19	23.82	< 38.45
	836.5			23.17	23.80	< 38.45
	844.0			23.37	24.00	< 38.45
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) – 2.15						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM						
1.4	824.7	1	0	23.72	24.35	< 38.45
	836.5			23.35	23.98	< 38.45
	848.3			23.39	24.02	< 38.45
1.4	824.7	1	2	23.93	24.56	< 38.45
	836.5			23.45	24.08	< 38.45
	848.3			23.29	23.92	< 38.45
1.4	824.7	1	5	23.83	24.46	< 38.45
	836.5			23.30	23.93	< 38.45
	848.3			22.98	23.61	< 38.45
1.4	824.7	6	0	22.92	23.55	< 38.45
	836.5			22.40	23.03	< 38.45
	848.3			22.15	22.78	< 38.45
3	825.5	1	0	23.39	24.02	< 38.45
	836.5			23.14	23.77	< 38.45
	847.5			23.35	23.98	< 38.45
3	825.5	1	7	23.82	24.45	< 38.45
	836.5			23.26	23.89	< 38.45
	847.5			23.20	23.83	< 38.45
3	825.5	1	14	23.44	24.07	< 38.45
	836.5			23.37	24.00	< 38.45
	847.5			22.79	23.42	< 38.45
3	825.5	15	0	22.46	23.09	< 38.45
	836.5			22.16	22.79	< 38.45
	847.5			22.05	22.68	< 38.45
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM						
5	826.5	1	0	23.40	24.03	< 38.45
	836.5			23.12	23.75	< 38.45
	846.5			23.35	23.98	< 38.45
5	826.5	1	12	23.51	24.14	< 38.45
	836.5			23.35	23.98	< 38.45
	846.5			23.26	23.89	< 38.45
5	826.5	1	24	22.99	23.62	< 38.45
	836.5			23.55	24.18	< 38.45
	846.5			22.25	22.88	< 38.45
5	826.5	25	0	22.22	22.85	< 38.45
	836.5			22.10	22.73	< 38.45
	846.5			21.93	22.56	< 38.45
10 (27RB)	829.0	1	0	23.35	23.98	< 38.45
	836.5			22.71	23.34	< 38.45
	844.0			23.30	23.93	< 38.45
10 (27RB)	829.0	1	24	23.27	23.90	< 38.45
	836.5			23.21	23.84	< 38.45
	844.0			23.78	24.41	< 38.45
10 (27RB)	829.0	1	49	22.90	23.53	< 38.45
	836.5			23.45	24.08	< 38.45
	844.0			22.28	22.91	< 38.45
10 (27RB)	829.0	27	0	21.81	22.44	< 38.45
	836.5			21.94	22.57	< 38.45
	844.0			21.84	22.47	< 38.45
Note 1: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) – 2.15						
Note 2: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.						

Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10	Test Band	Band 38/41

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
5	2498.5	1	0	20.82	23.19	< 33.01
	2593.0			22.33	24.70	< 33.01
	2687.5			22.99	25.36	< 33.01
5	2498.5	1	12	21.29	23.66	< 33.01
	2593.0			22.70	25.07	< 33.01
	2687.5			23.26	25.63	< 33.01
5	2498.5	1	24	21.04	23.41	< 33.01
	2593.0			22.43	24.80	< 33.01
	2687.5			22.95	25.32	< 33.01
5	2498.5	25	0	20.04	22.41	< 33.01
	2593.0			21.50	23.87	< 33.01
	2687.5			21.45	23.82	< 33.01
10	2501.0	1	0	21.14	23.51	< 33.01
	2593.0			22.63	25.00	< 33.01
	2685.0			22.63	25.00	< 33.01
10	2501.0	1	24	21.61	23.98	< 33.01
	2593.0			23.04	25.41	< 33.01
	2685.0			22.90	25.27	< 33.01
10	2501.0	1	49	21.32	23.69	< 33.01
	2593.0			22.74	25.11	< 33.01
	2685.0			22.48	24.85	< 33.01
10	2501.0	27	0	20.68	23.05	< 33.01
	2593.0			21.96	24.33	< 33.01
	2685.0			21.81	24.18	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
15	2503.5	1	0	21.79	24.16	< 33.01
	2593.0			23.31	25.68	< 33.01
	2682.5			23.32	25.69	< 33.01
15	2503.5	1	37	21.99	24.36	< 33.01
	2593.0			23.37	25.74	< 33.01
	2682.5			23.29	25.66	< 33.01
15	2503.5	1	74	22.01	24.38	< 33.01
	2593.0			23.43	25.80	< 33.01
	2682.5			23.08	25.45	< 33.01
15	2503.5	27	0	20.86	23.23	< 33.01
	2593.0			22.18	24.55	< 33.01
	2682.5			22.03	24.40	< 33.01
20	2506.0	1	0	21.64	24.01	< 33.01
	2593.0			23.07	25.44	< 33.01
	2680.0			23.06	25.43	< 33.01
20	2506.0	1	49	22.15	24.52	< 33.01
	2593.0			23.47	25.84	< 33.01
	2680.0			23.41	25.78	< 33.01
20	2506.0	1	99	21.88	24.25	< 33.01
	2593.0			23.21	25.58	< 33.01
	2680.0			22.83	25.20	< 33.01
20	2506.0	27	0	20.94	23.31	< 33.01
	2593.0			22.30	24.67	< 33.01
	2680.0			22.17	24.54	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM						
5	2498.5	1	0	20.05	22.42	< 33.01
	2593.0			21.51	23.88	< 33.01
	2687.5			21.48	23.85	< 33.01
5	2498.5	1	12	20.51	22.88	< 33.01
	2593.0			21.89	24.26	< 33.01
	2687.5			21.80	24.17	< 33.01
5	2498.5	1	24	20.12	22.49	< 33.01
	2593.0			21.61	23.98	< 33.01
	2687.5			21.46	23.83	< 33.01
5	2498.5	25	0	19.09	21.46	< 33.01
	2593.0			20.61	22.98	< 33.01
	2687.5			21.46	23.83	< 33.01
10 (27RB)	2501.0	1	0	20.37	22.74	< 33.01
	2593.0			21.72	24.09	< 33.01
	2685.0			21.68	24.05	< 33.01
10 (27RB)	2501.0	1	24	20.86	23.23	< 33.01
	2593.0			22.15	24.52	< 33.01
	2685.0			22.00	24.37	< 33.01
10 (27RB)	2501.0	1	49	20.56	22.93	< 33.01
	2593.0			21.83	24.20	< 33.01
	2685.0			21.54	23.91	< 33.01
10 (27RB)	2501.0	27	0	20.39	22.76	< 33.01
	2593.0			22.02	24.39	< 33.01
	2685.0			22.12	24.49	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Channel Bandwidth (MHz)	Frequency (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM						
15 (27RB)	2503.5	1	0	21.06	23.43	< 33.01
	2593.0			22.44	24.81	< 33.01
	2682.5			22.39	24.76	< 33.01
15 (27RB)	2503.5	1	37	21.26	23.63	< 33.01
	2593.0			22.51	24.88	< 33.01
	2682.5			22.41	24.78	< 33.01
15 (27RB)	2503.5	1	74	21.28	23.65	< 33.01
	2593.0			22.58	24.95	< 33.01
	2682.5			22.19	24.56	< 33.01
15 (27RB)	2503.5	27	0	22.44	24.81	< 33.01
	2593.0			21.88	24.25	< 33.01
	2682.5			22.02	24.39	< 33.01
20 (27RB)	2506.0	1	0	20.74	23.11	< 33.01
	2593.0			22.20	24.57	< 33.01
	2680.0			22.14	24.51	< 33.01
20 (27RB)	2506.0	1	49	21.30	23.67	< 33.01
	2593.0			22.63	25.00	< 33.01
	2680.0			22.53	24.90	< 33.01
20 (27RB)	2506.0	1	99	21.02	23.39	< 33.01
	2593.0			22.36	24.73	< 33.01
	2680.0			21.93	24.30	< 33.01
20 (27RB)	2506.0	27	0	20.21	22.58	< 33.01
	2593.0			22.12	24.49	< 33.01
	2680.0			22.01	24.38	< 33.01
Note 1: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						
Note 2: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.						

A.4 Peak-to-Average Power Ratio Test Result

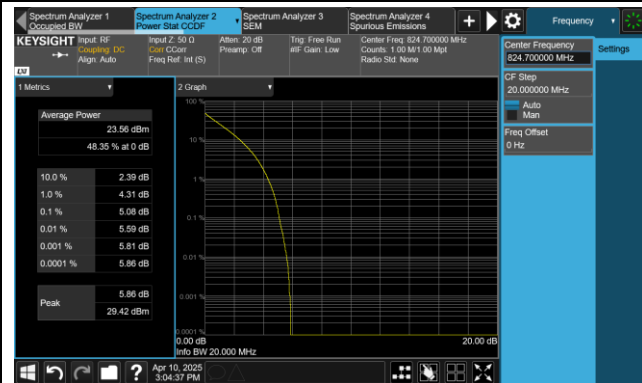
Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10 ~ 2025-04-11	Test Band	Band 5

Channel Bandwidth (MHz)	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)	Result
QPSK				
1.4	824.7	5.08	≤ 13.00	Pass
	836.5	5.15	≤ 13.00	Pass
	848.3	4.61	≤ 13.00	Pass
3	825.5	5.14	≤ 13.00	Pass
	836.5	5.28	≤ 13.00	Pass
	847.5	4.75	≤ 13.00	Pass
5	826.5	4.96	≤ 13.00	Pass
	836.5	5.17	≤ 13.00	Pass
	846.5	4.73	≤ 13.00	Pass
10	829.0	4.84	≤ 13.00	Pass
	836.5	5.24	≤ 13.00	Pass
	844.0	5.00	≤ 13.00	Pass
16QAM				
1.4	824.7	5.95	≤ 13.00	Pass
	836.5	5.96	≤ 13.00	Pass
	848.3	5.57	≤ 13.00	Pass
3	825.5	5.97	≤ 13.00	Pass
	836.5	6.07	≤ 13.00	Pass
	847.5	5.53	≤ 13.00	Pass
5	826.5	5.76	≤ 13.00	Pass
	836.5	5.89	≤ 13.00	Pass
	846.5	5.46	≤ 13.00	Pass
10 (27RB)	829.0	5.96	≤ 13.00	Pass
	836.5	5.80	≤ 13.00	Pass
	844.0	5.76	≤ 13.00	Pass

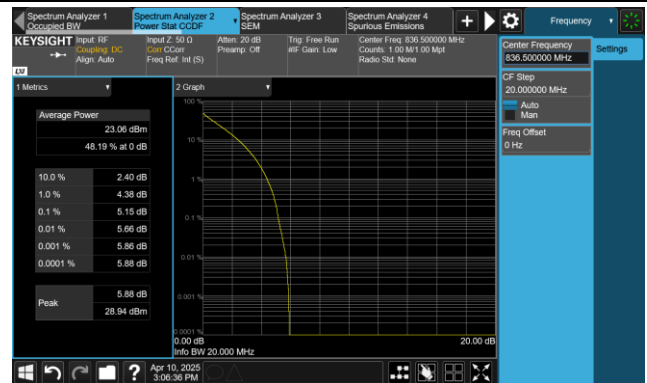
Note: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.

1.4MHz – QPSK

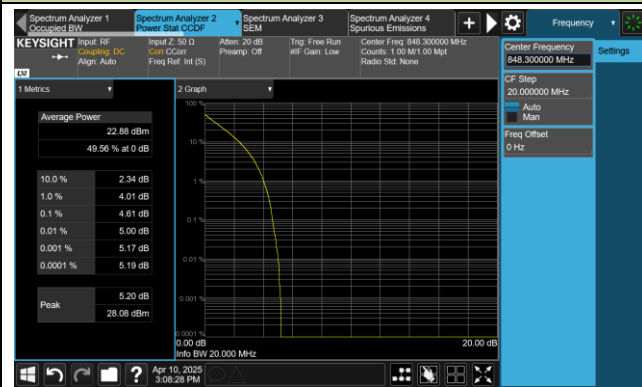
Low Channel



Middle Channel

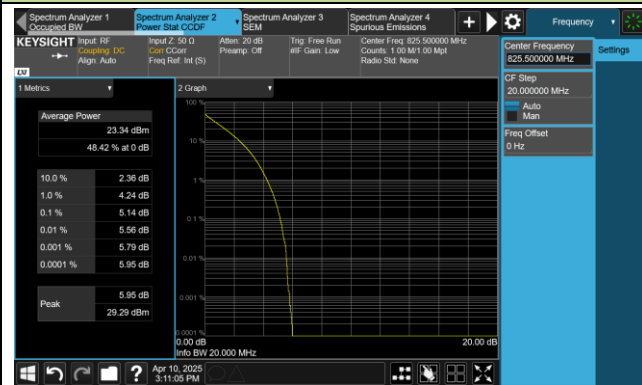


High Channel

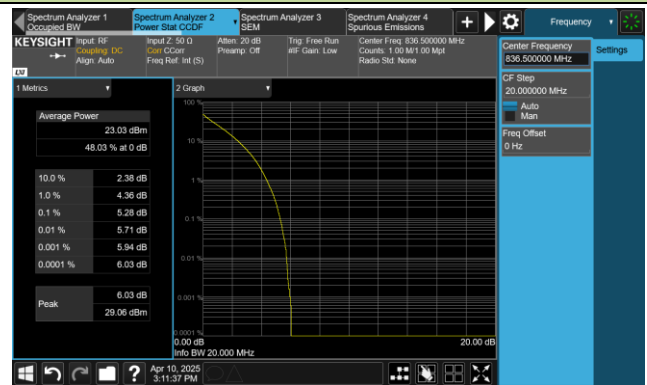


3MHz – QPSK

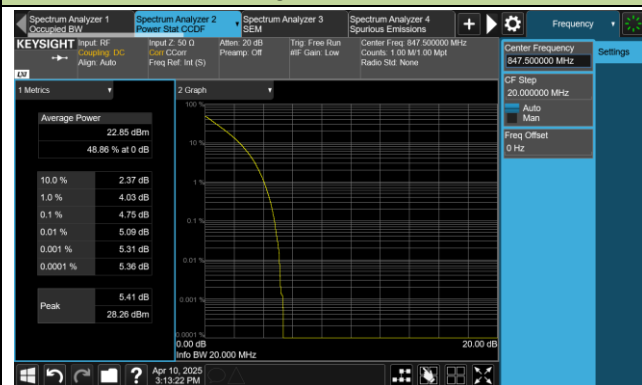
Low Channel



Middle Channel

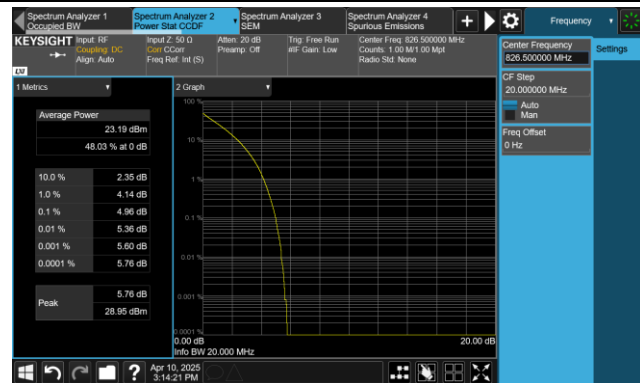


High Channel

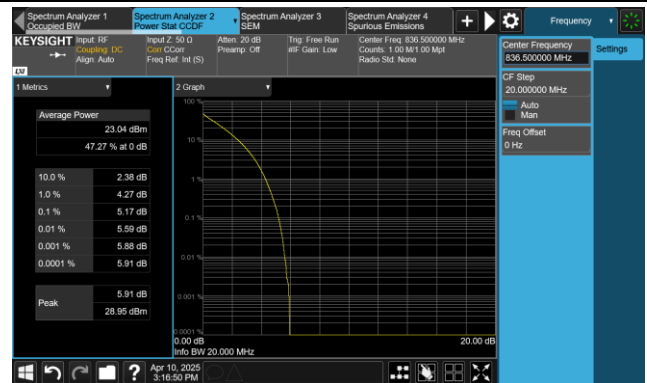


5MHz – QPSK

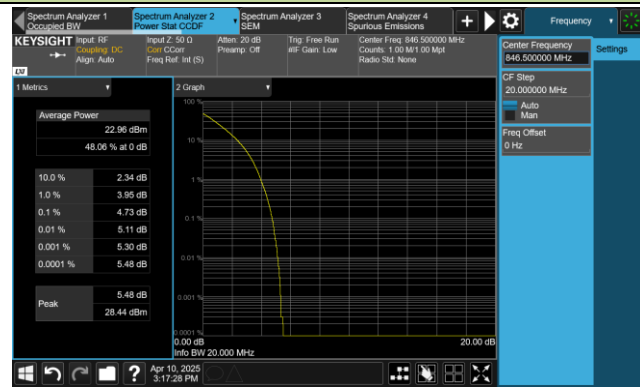
Low Channel



Middle Channel

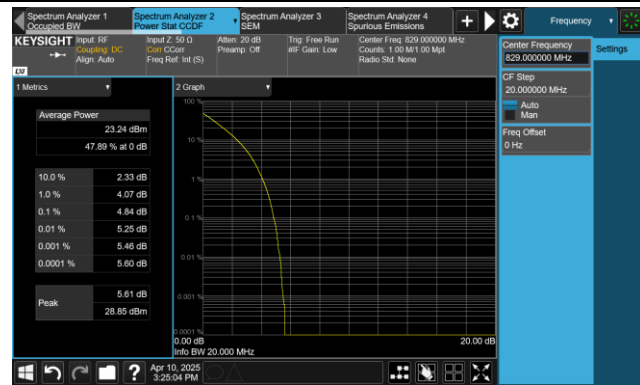


High Channel

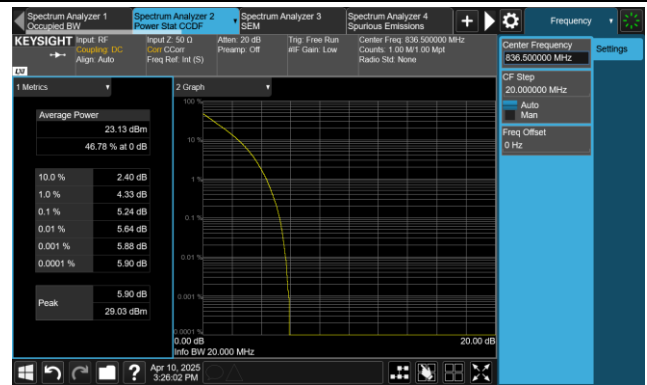


10MHz – QPSK

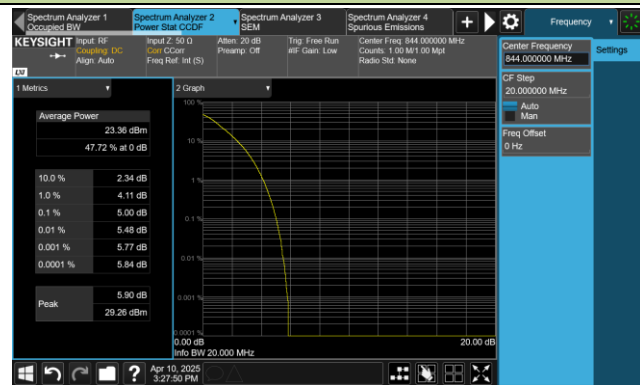
Low Channel



Middle Channel

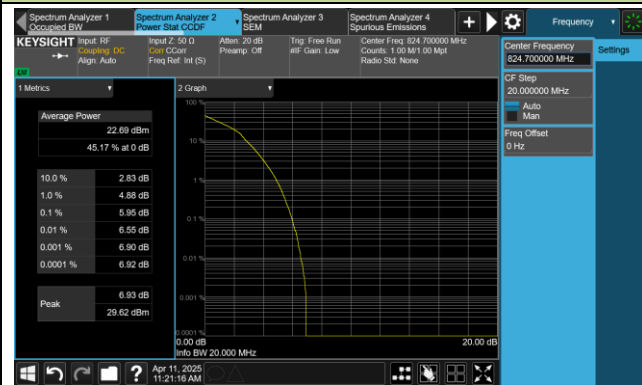


High Channel

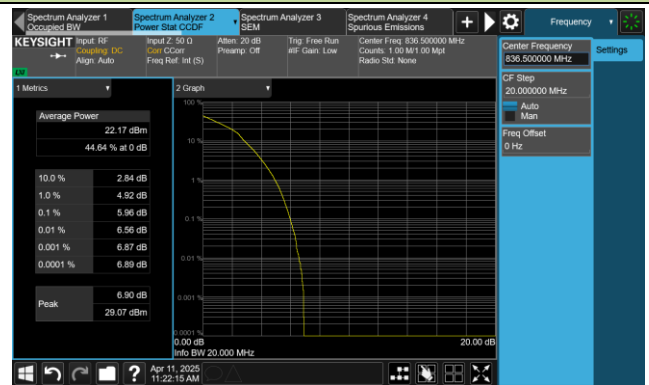


1.4MHz – 16QAM

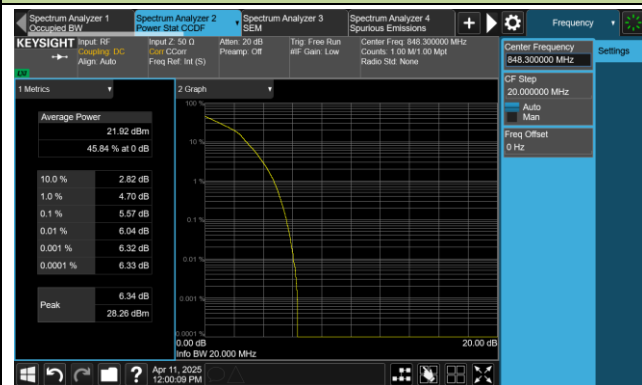
Low Channel



Middle Channel

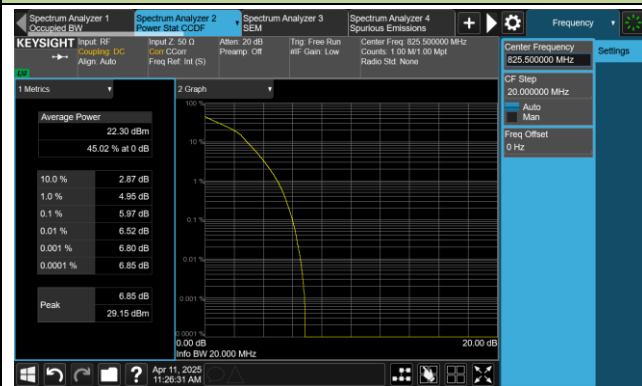


High Channel

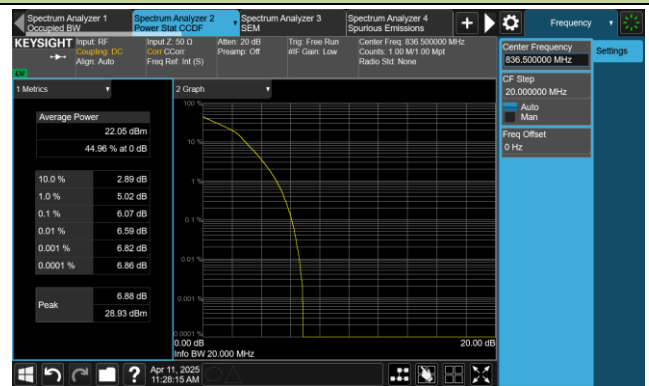


3MHz – 16QAM

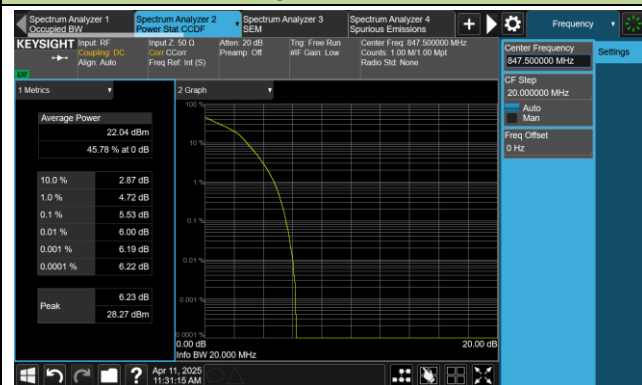
Low Channel



Middle Channel

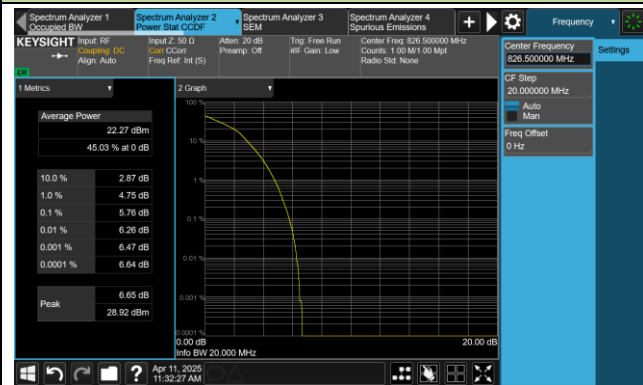


High Channel

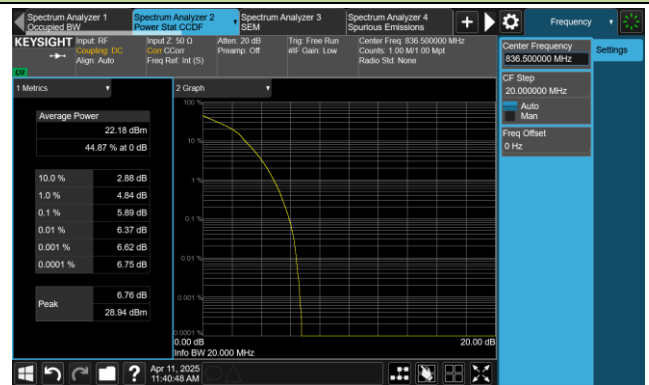


5MHz – 16QAM

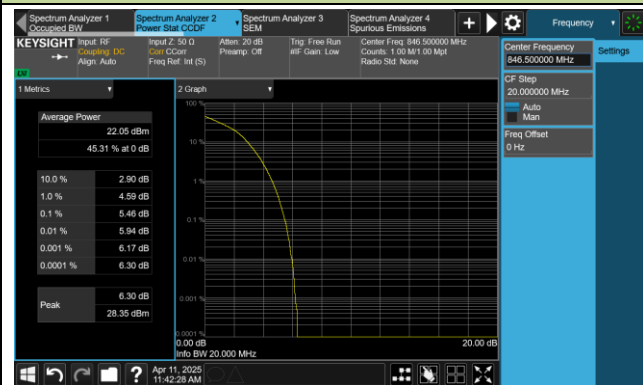
Low Channel



Middle Channel

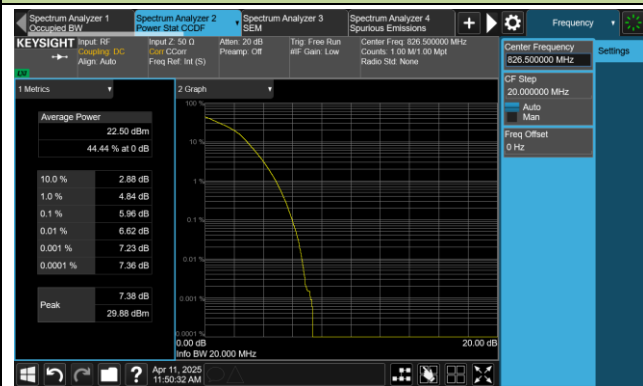


High Channel

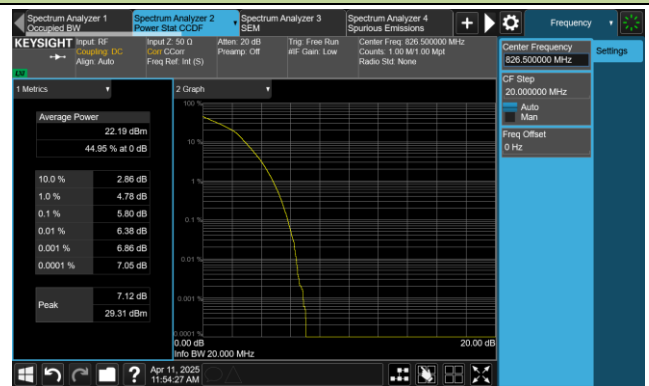


10MHz – 16QAM

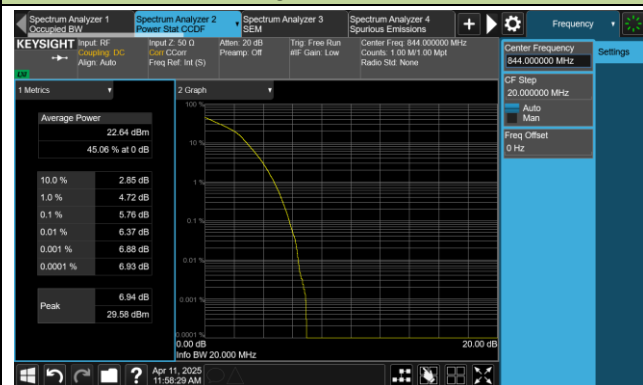
Low Channel



Middle Channel



High Channel



Test Site	WZ-SR6	Test Engineer	Edith Yu
Test Date	2025-04-10 ~ 2025-04-11	Test Band	Band 38/41

Channel Bandwidth (MHz)	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)	Result
QPSK				
5	2498.5	4.97	≤ 13.00	Pass
	2593.0	4.87	≤ 13.00	Pass
	2687.5	4.73	≤ 13.00	Pass
10	2501.0	5.01	≤ 13.00	Pass
	2593.0	4.93	≤ 13.00	Pass
	2685.0	4.79	≤ 13.00	Pass
15	2503.5	5.22	≤ 13.00	Pass
	2593.0	5.11	≤ 13.00	Pass
	2682.5	5.04	≤ 13.00	Pass
20	2506.0	5.32	≤ 13.00	Pass
	2593.0	5.34	≤ 13.00	Pass
	2680.0	5.24	≤ 13.00	Pass
16QAM				
5	2498.5	5.53	≤ 13.00	Pass
	2593.0	5.63	≤ 13.00	Pass
	2687.5	5.49	≤ 13.00	Pass
10 (27RB)	2501.0	5.97	≤ 13.00	Pass
	2593.0	5.86	≤ 13.00	Pass
	2685.0	5.67	≤ 13.00	Pass
15 (27RB)	2503.5	6.02	≤ 13.00	Pass
	2593.0	5.81	≤ 13.00	Pass
	2682.5	5.63	≤ 13.00	Pass
20 (27RB)	2506.0	5.95	≤ 13.00	Pass
	2593.0	5.77	≤ 13.00	Pass
	2680.0	5.73	≤ 13.00	Pass

Note: UL Max. 5 Mbps for LTE Cat 1bis, so the maximum number of RB supported by 16QAM is 27RB.