



FCC Test Report

ANNEX 6 LTE BAND 13

FCC ID: 2A8LQ-WE006US

Applicant: Hareau SAS (Weenect)
Address: 101 rue de Sèvres, 75272 Paris cedex 06
Manufacturer: Toplovo Industrial Co., Limited
Address: 4F, Building B2b, Yingzhan Industrial Park, Kengzi Town, Pingshan district, Shenzhen, China. 518122
EUT: WE006US Gps tracker
Trade Mark: N/A
Model Number: WE006US
WE006US belongs to general model number WE006
Date of Receipt: Aug. 15, 2022
Test Date: Aug. 15, 2022 – Oct. 26, 2022
Date of Report: Oct. 26, 2022
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
FCC CFR Title 47 Part27
FCC CFR Title 47 Part24 Subpart E
Applicable Standards: TIA-603 Rev E 2016
FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01
ANSI C63.26:2015
Test Result: Pass
Report Number: DL-20220825029E

Prepared (Test Engineer): Pxing Huang
Reviewer (Supervisor): Jack Bu
Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1. EMISSION TEST RESULTS****1.1. -26dB and 99% Occupied Bandwidth****1.1.1. Test Result**

EUT Mode Bandwidth	Modulation	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
LTE Band 13 5 MHz	QPSK	779.5	4.491	4.870
		782.0	4.485	4.894
		784.5	4.466	4.862
LTE Band 13 5 MHz	16-QAM	779.5	4.484	4.902
		782.0	4.467	4.854
		784.5	4.476	4.914
LTE Band 13 10 MHz	QPSK	782.0	8.936	9.653

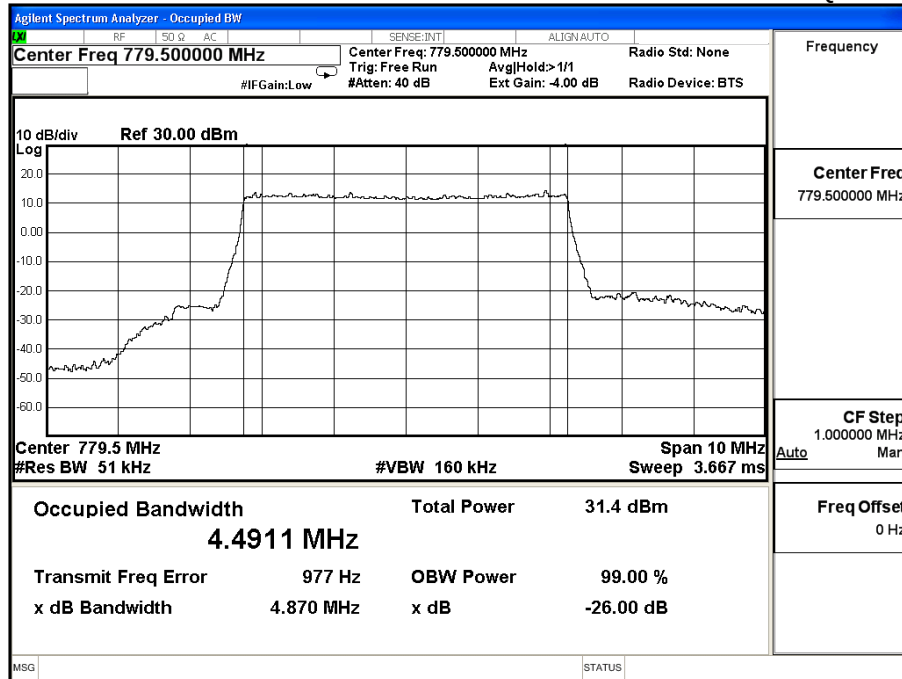
Note: Measurement Uncertainty: $\pm 20\text{Hz}$.

Test plot as follows:



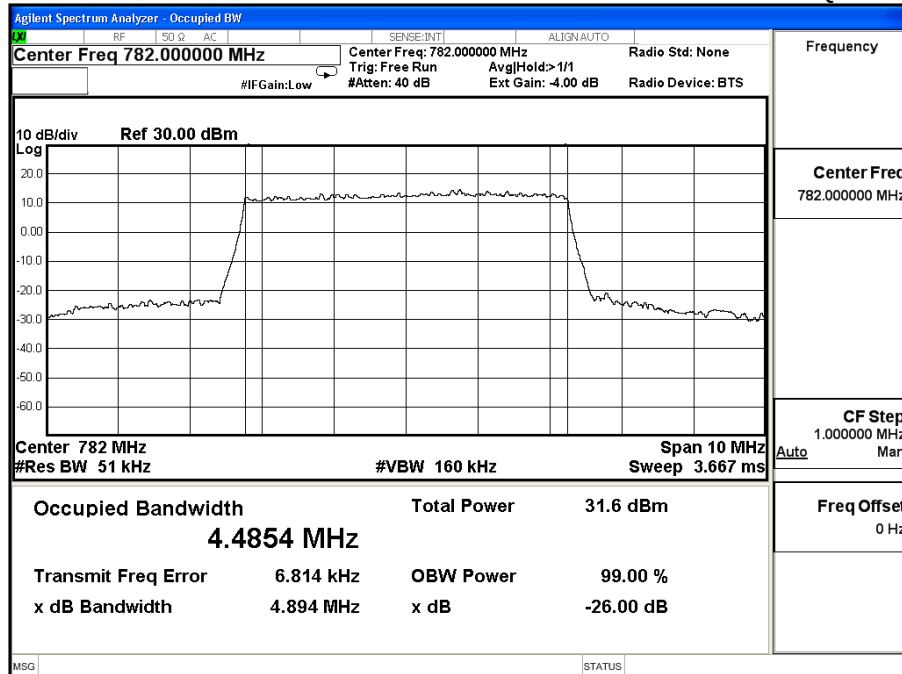
LTE Band 13 Lowest channel

5 MHz QPSK



LTE Band 13 Middle channel

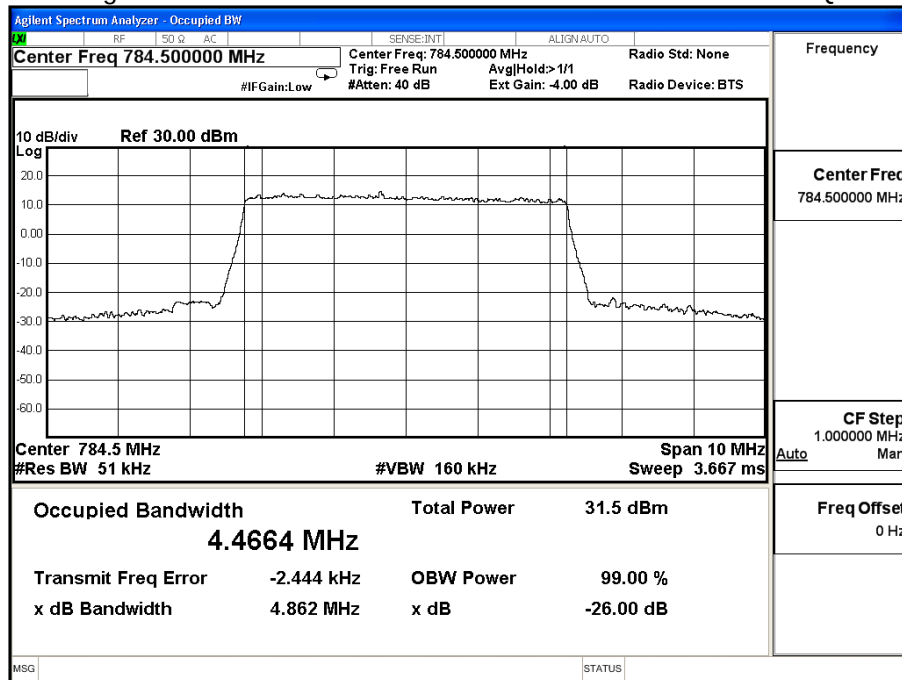
5 MHz QPSK





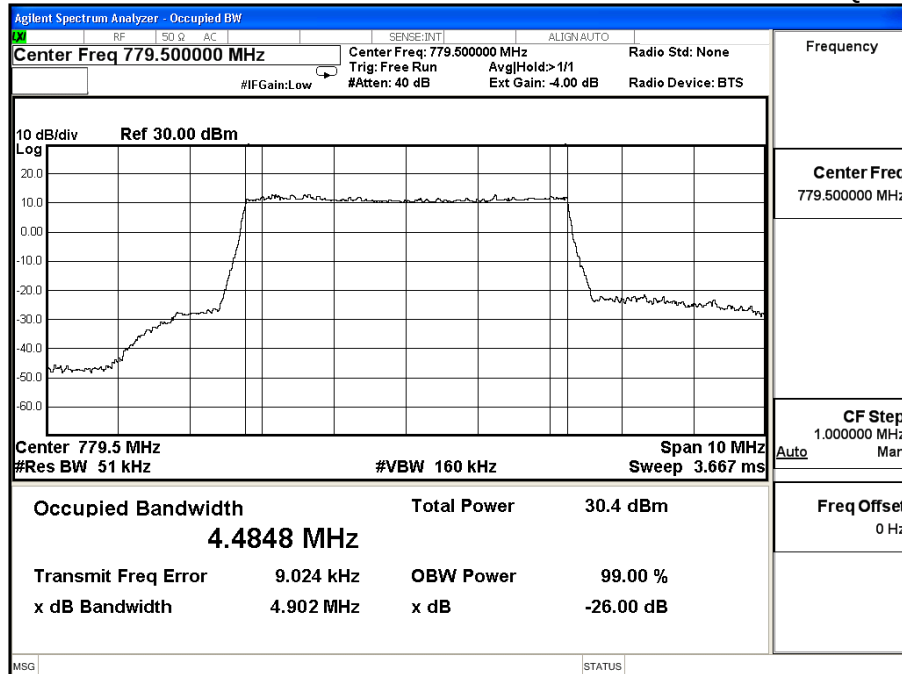
LTE Band 13 Highest channel:

5 MHz QPSK



LTE Band 13 Lowest channel

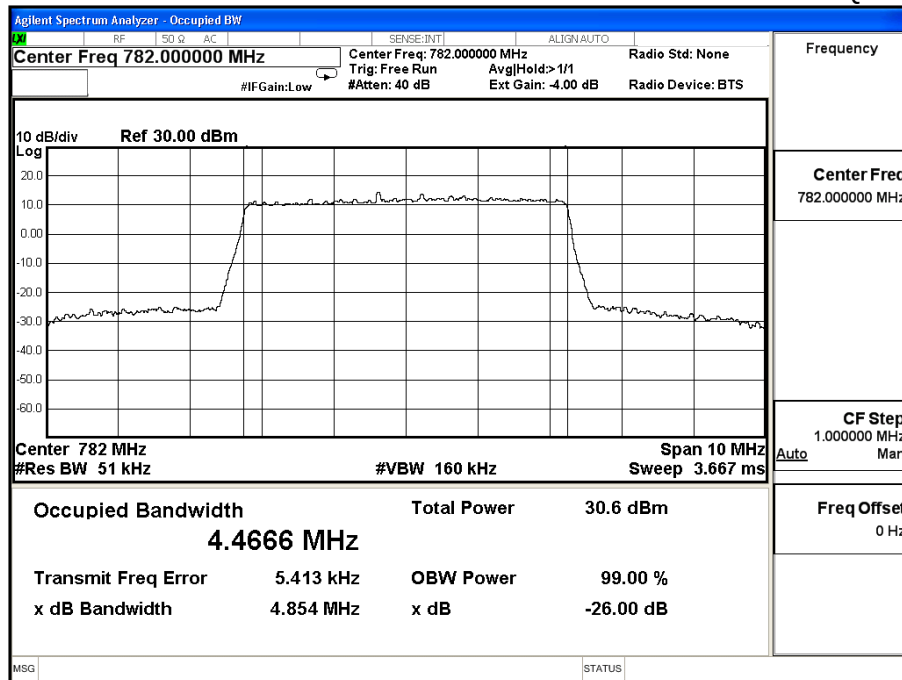
5 MHz 16-QAM





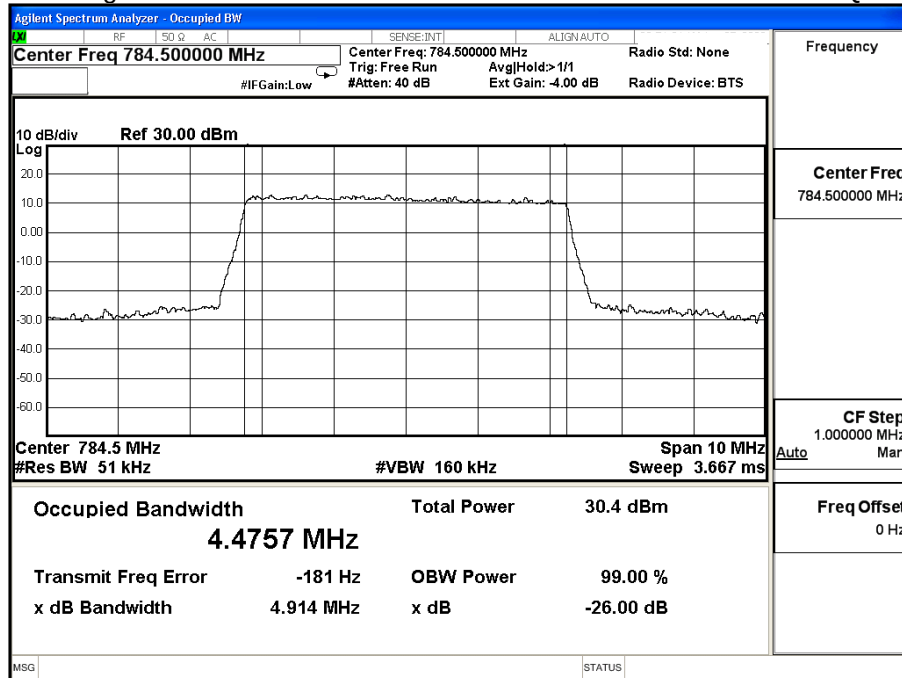
LTE Band 13 Middle channel

5 MHz 16-QAM



LTE Band 13 Highest channel:

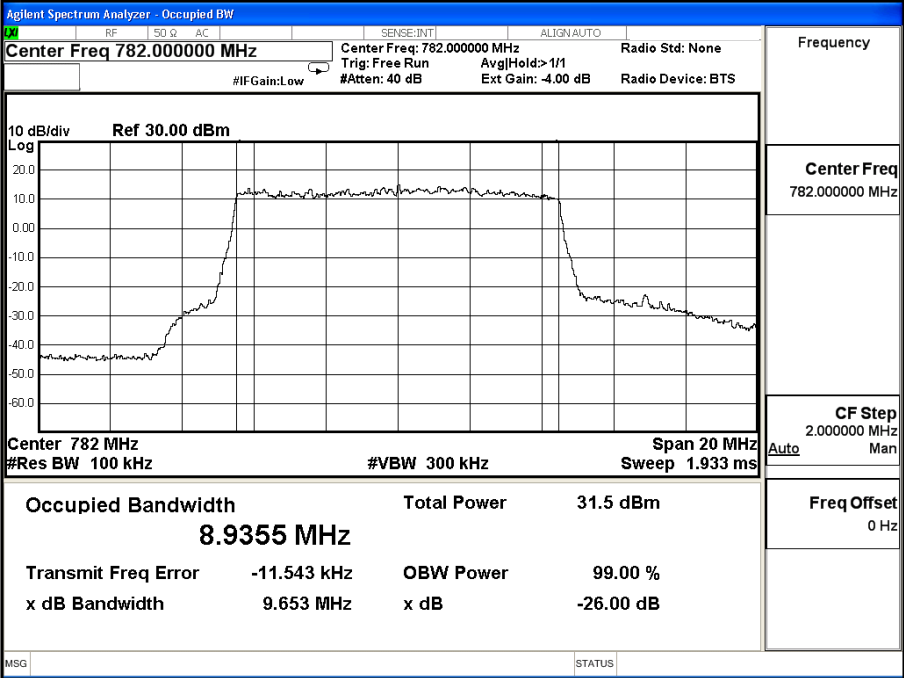
5 MHz 16-QAM





LTE Band 13 Middle channel

10 MHz QPSK





1.2. Conducted Spurious Emissions

1.2.1. Test Result

The measurement frequency range is from 0.009MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the QPSK,RB100's data.

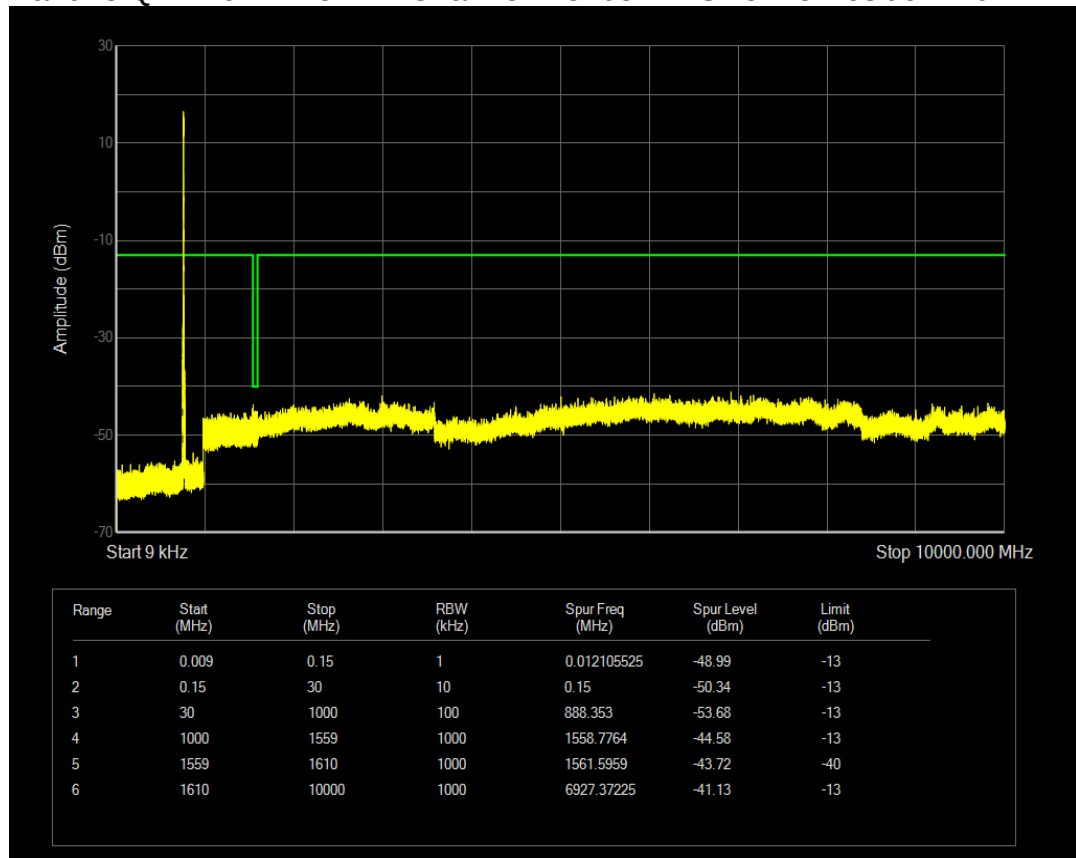
Pass, The worst test table and plot please see annex.

Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0

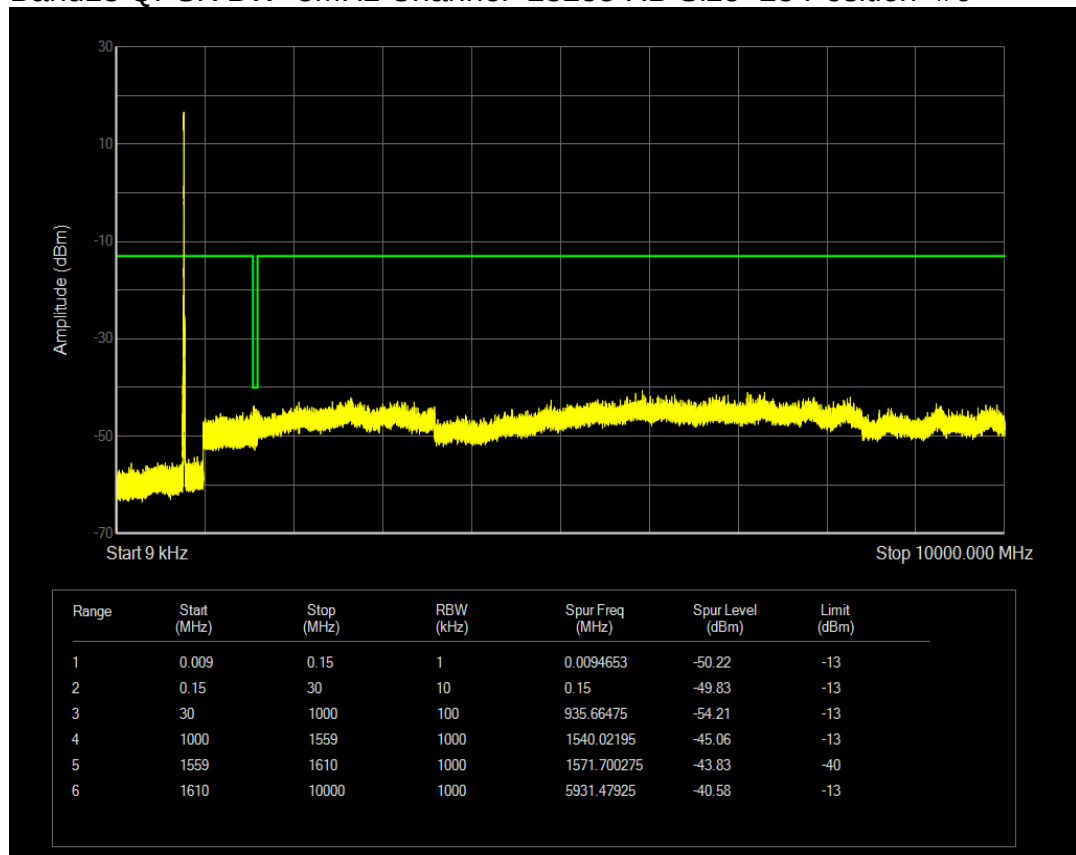




Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0

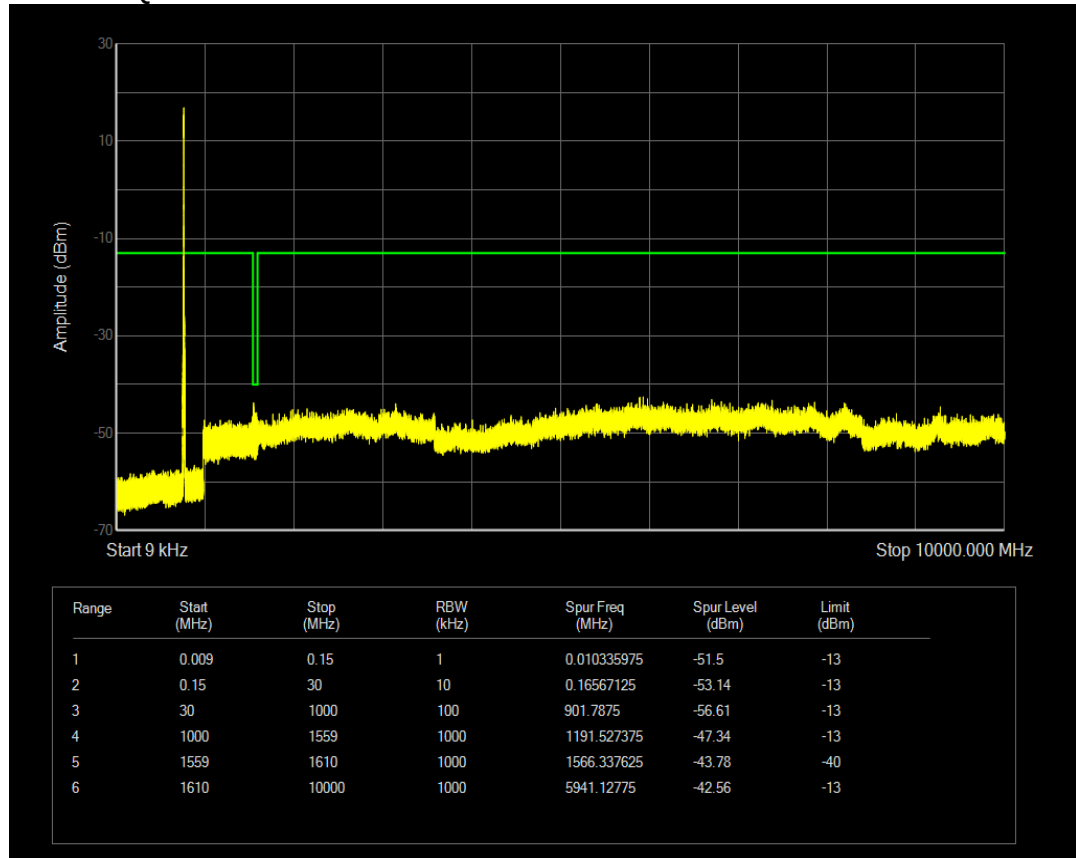


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

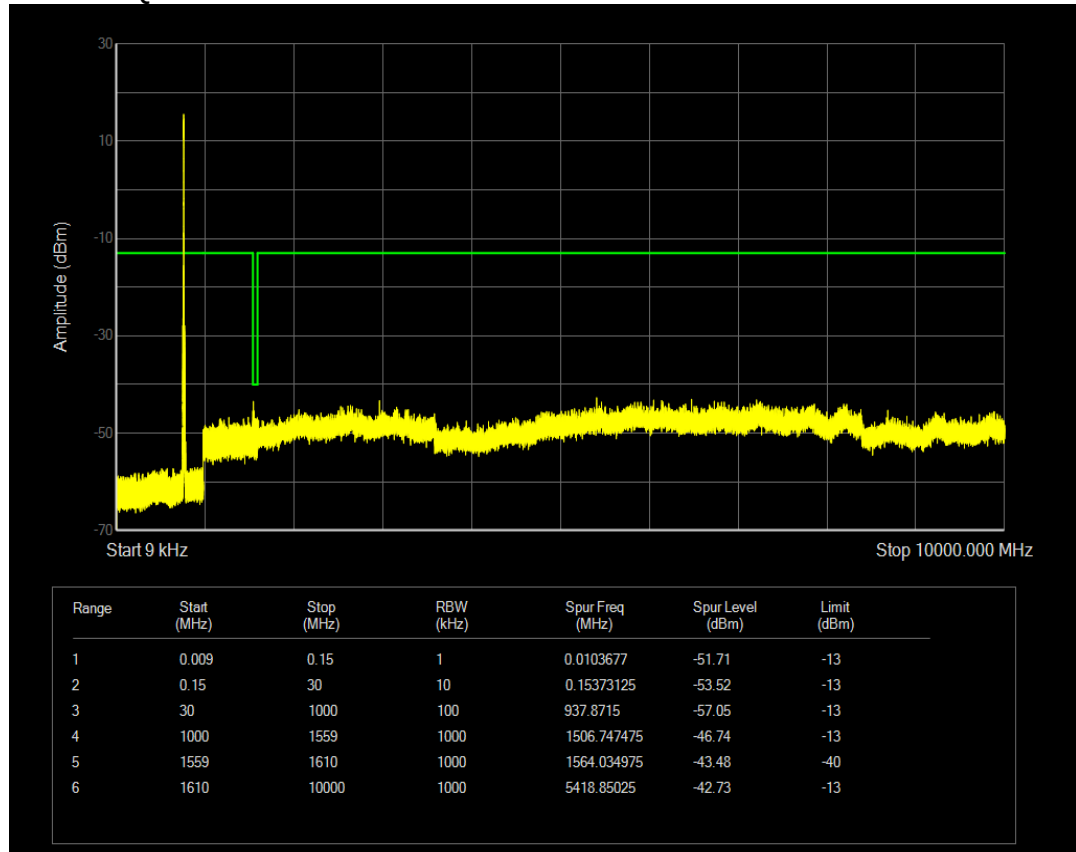




Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0

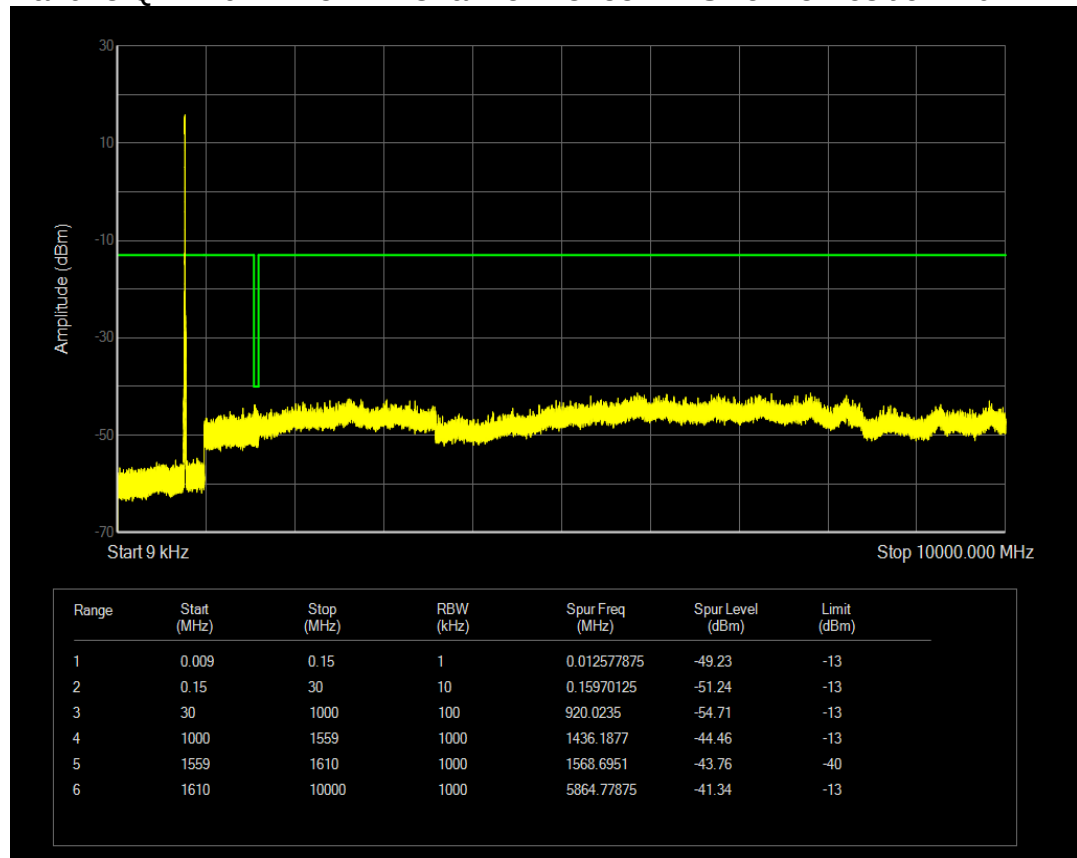


Band13 QAM16 BW=5MHz Channel=23230 RB Size=25 Position=#0





Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



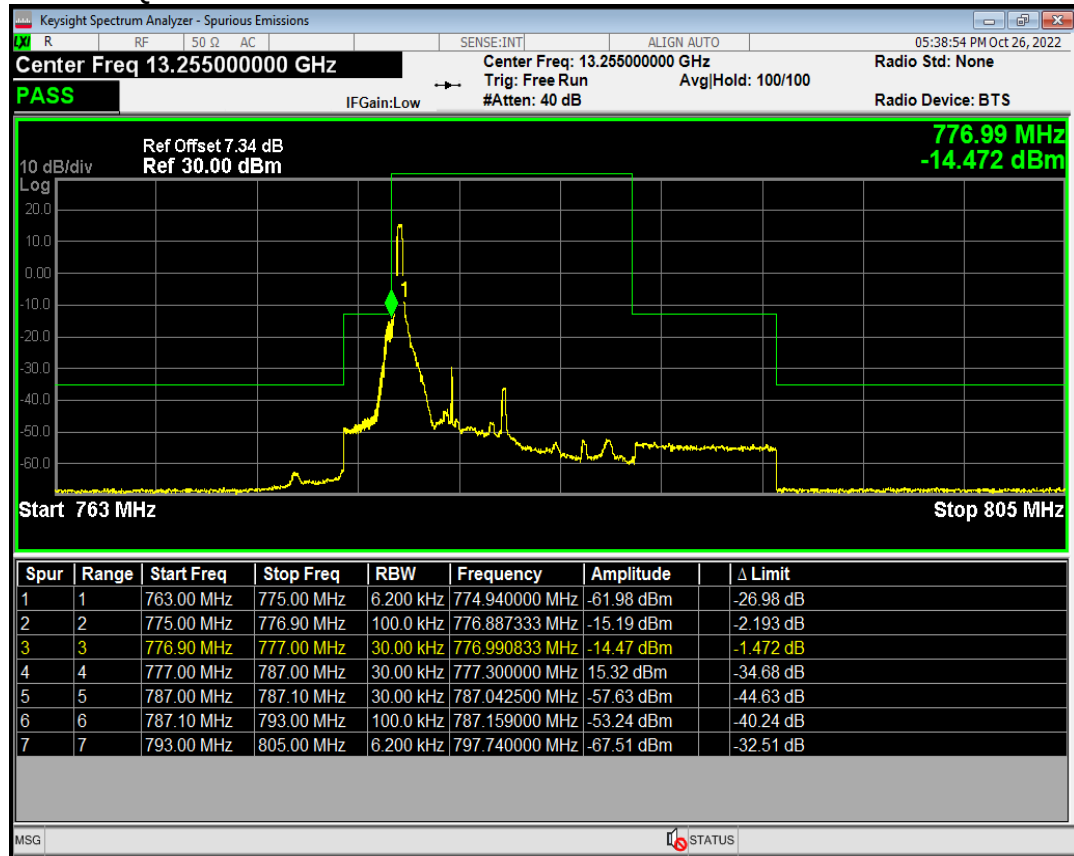


1.3. Conducted Out of Band Emissions

1.3.1. Test Result

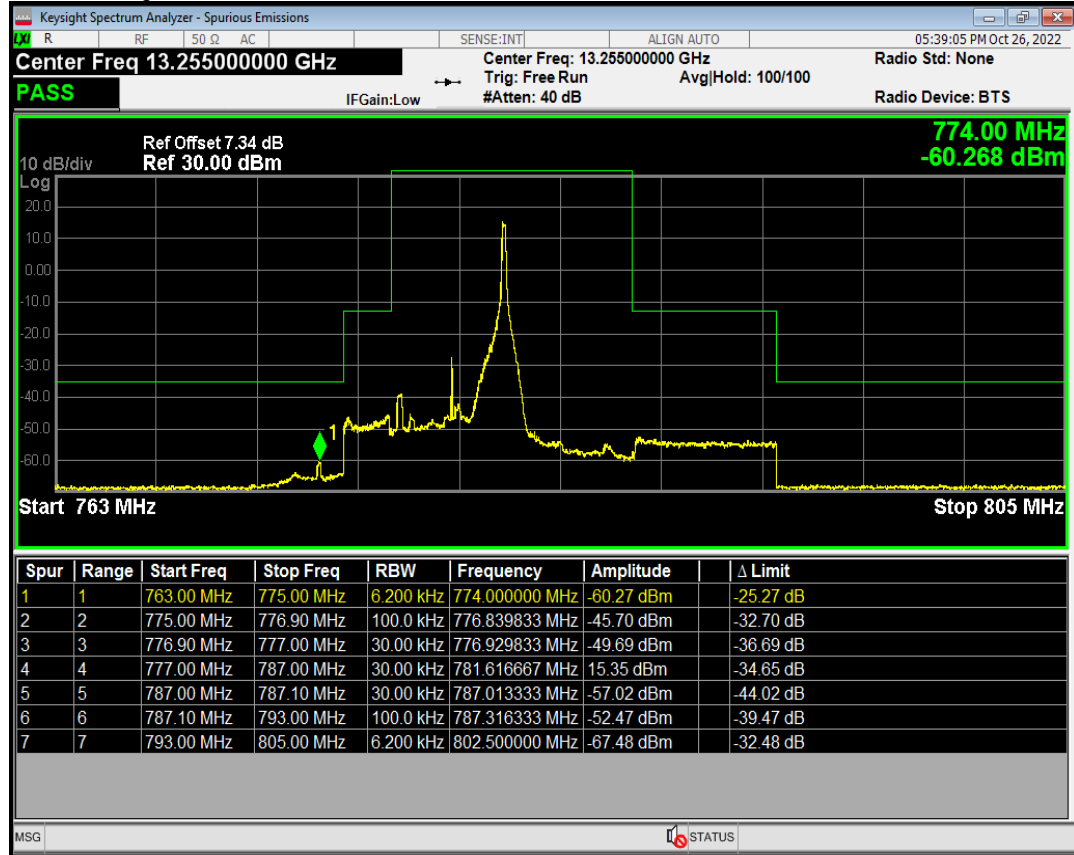
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#0

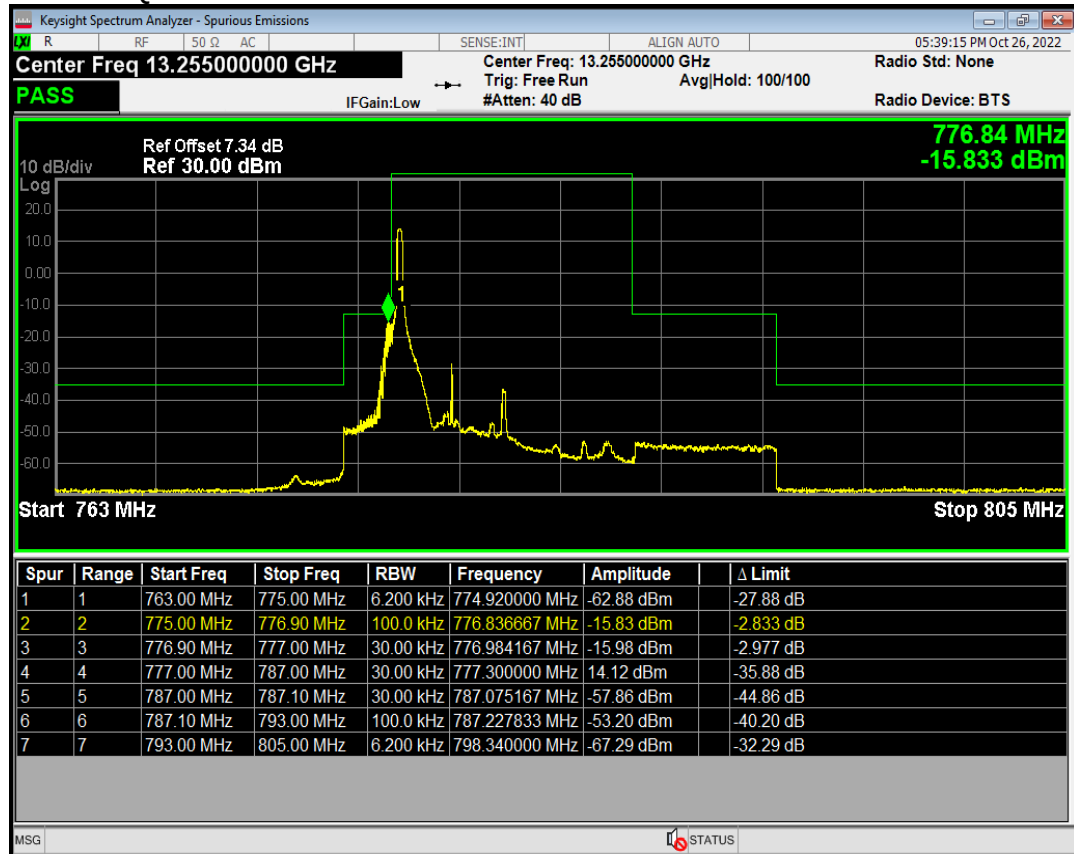




Band13 QPSK BW=5MHz Channel=23205 RB Size=1 Position=#Max

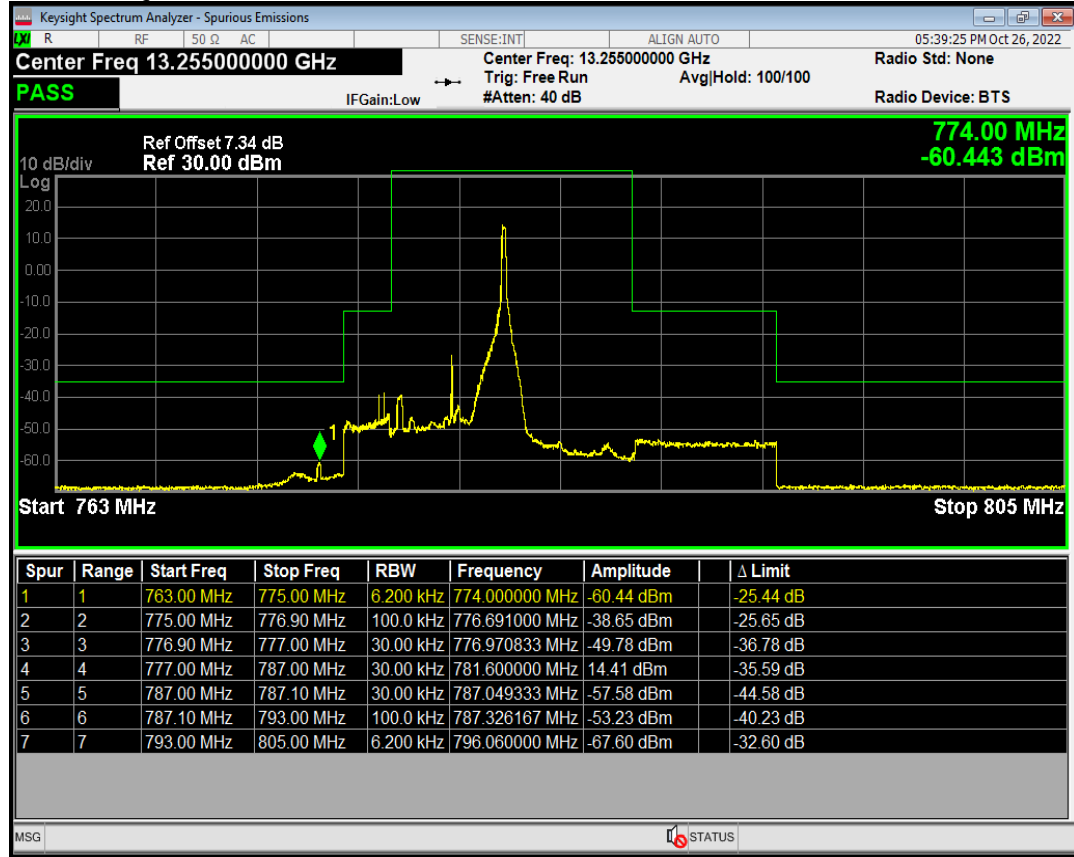


Band13 QAM16 BW=5MHz Channel=23205 RB Size=1 Position=#0

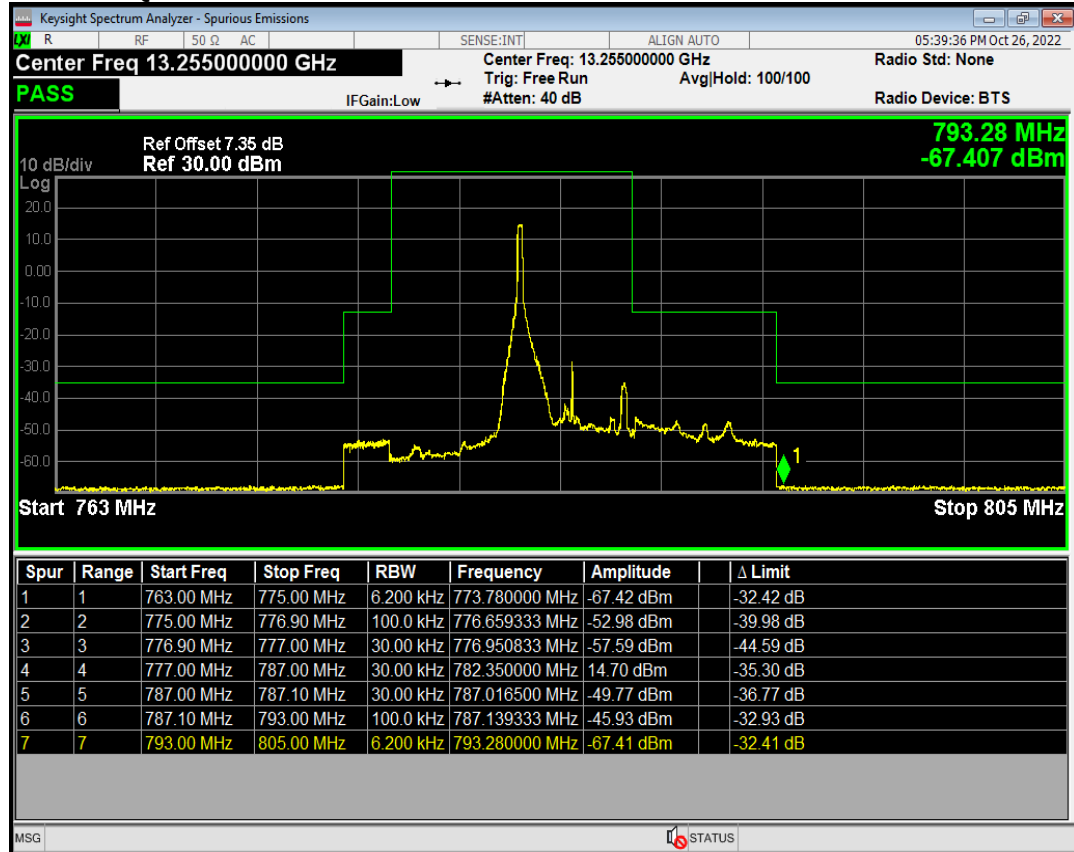




Band13 QAM16 BW=5MHz Channel=23205 RB Size=1 Position=#Max

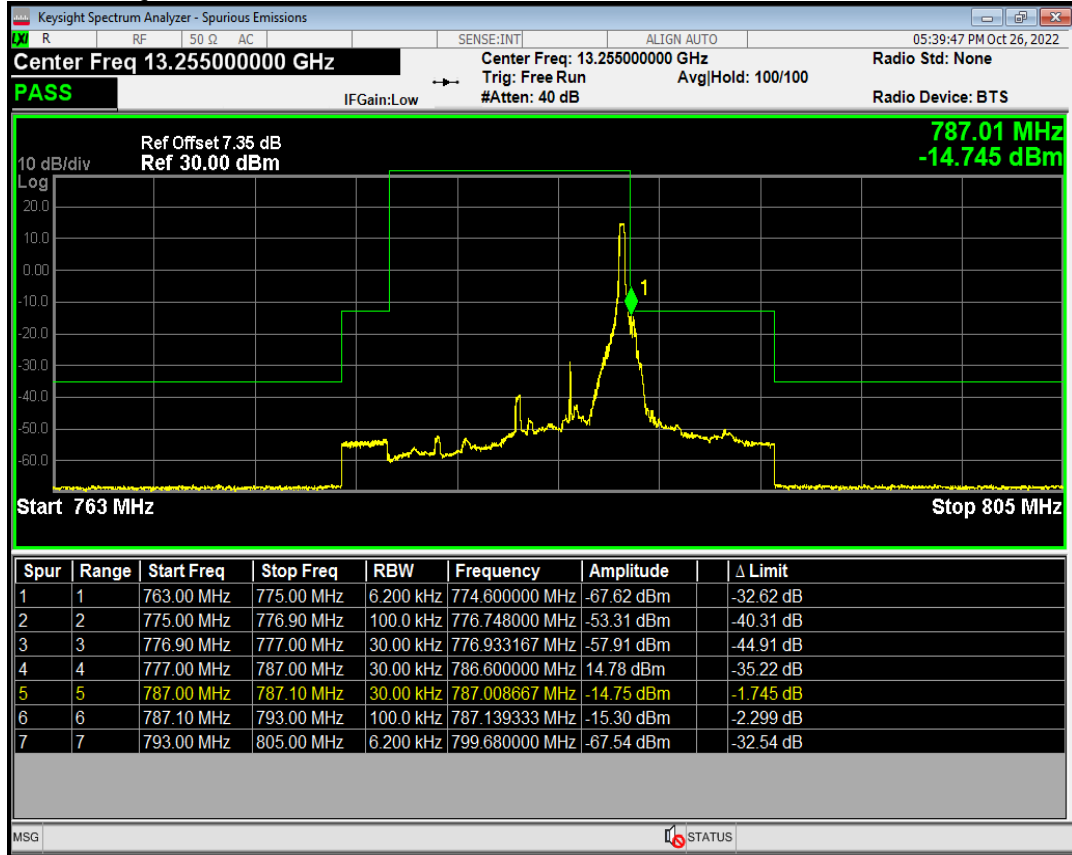


Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#0

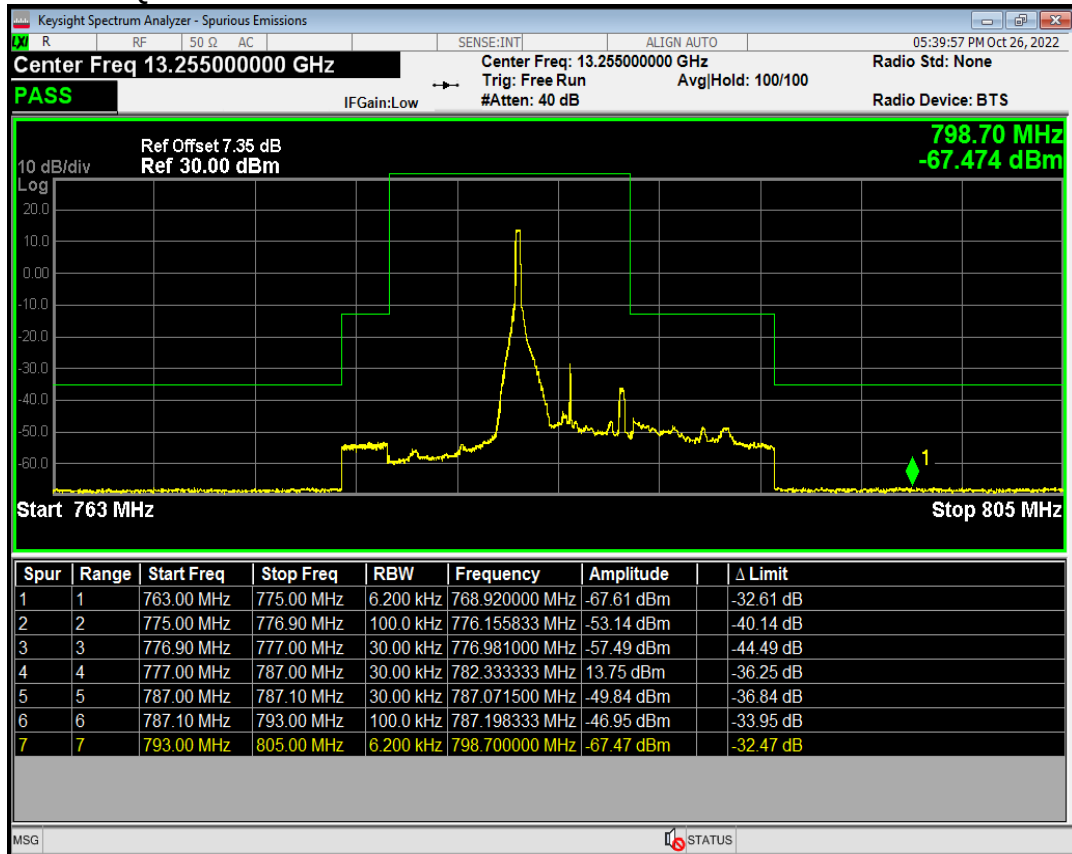




Band13 QPSK BW=5MHz Channel=23255 RB Size=1 Position=#Max

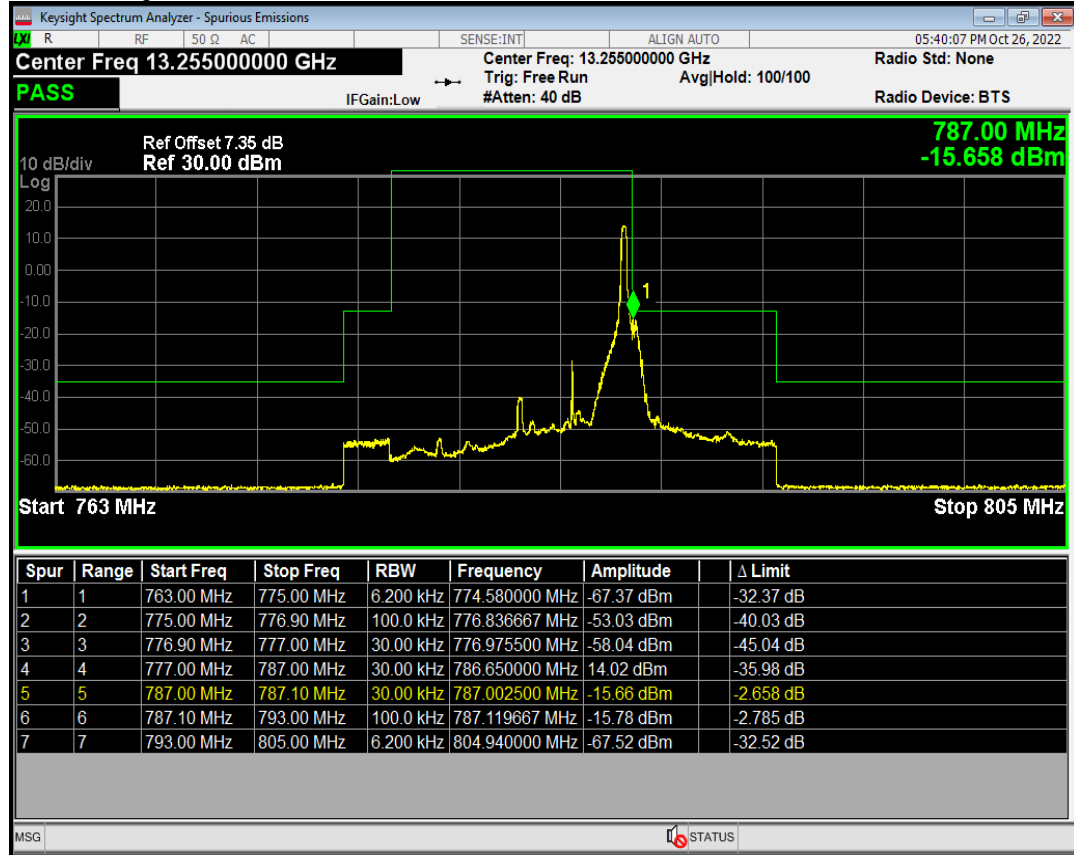


Band13 QAM16 BW=5MHz Channel=23255 RB Size=1 Position=#0

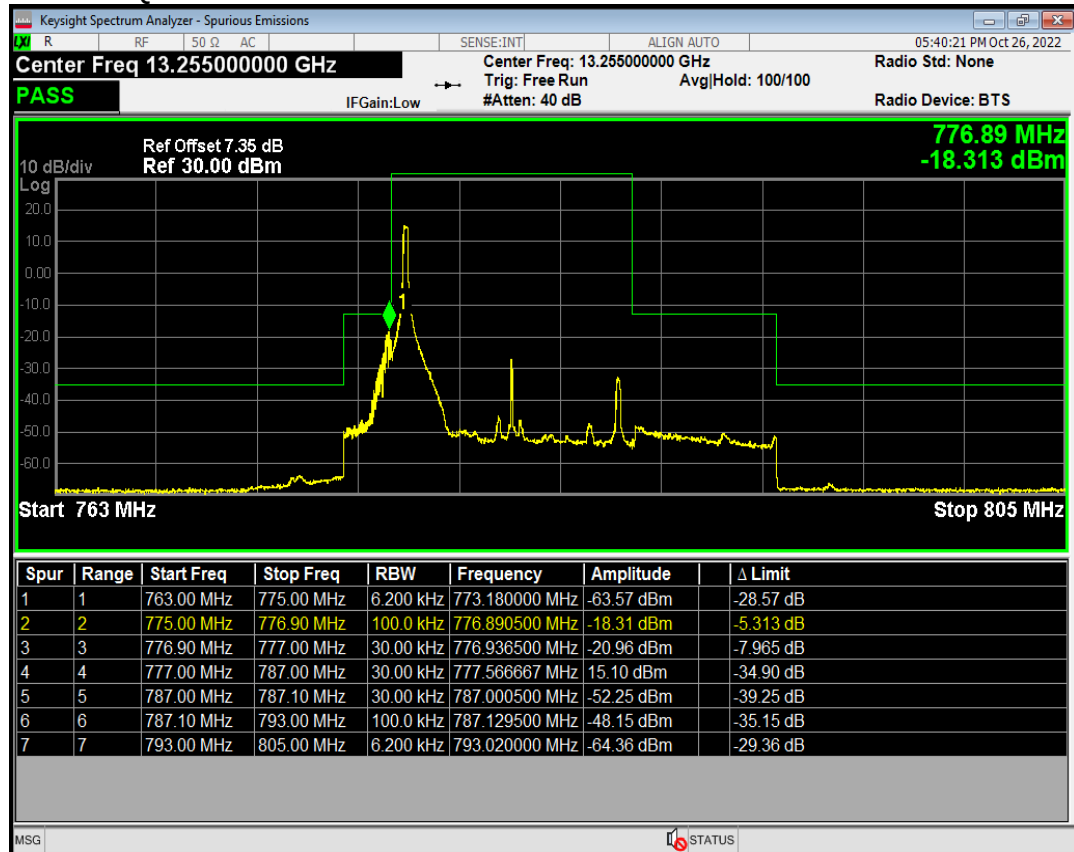




Band13 QAM16 BW=5MHz Channel=23255 RB Size=1 Position=#Max

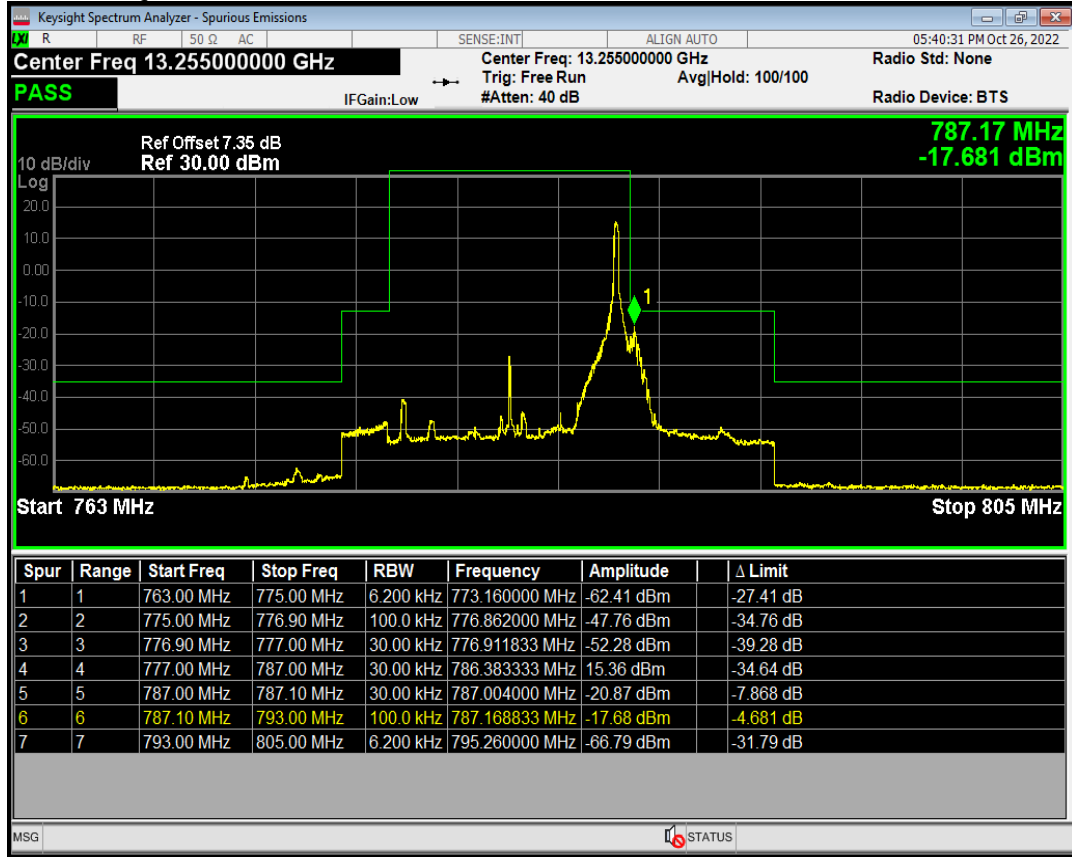


Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0

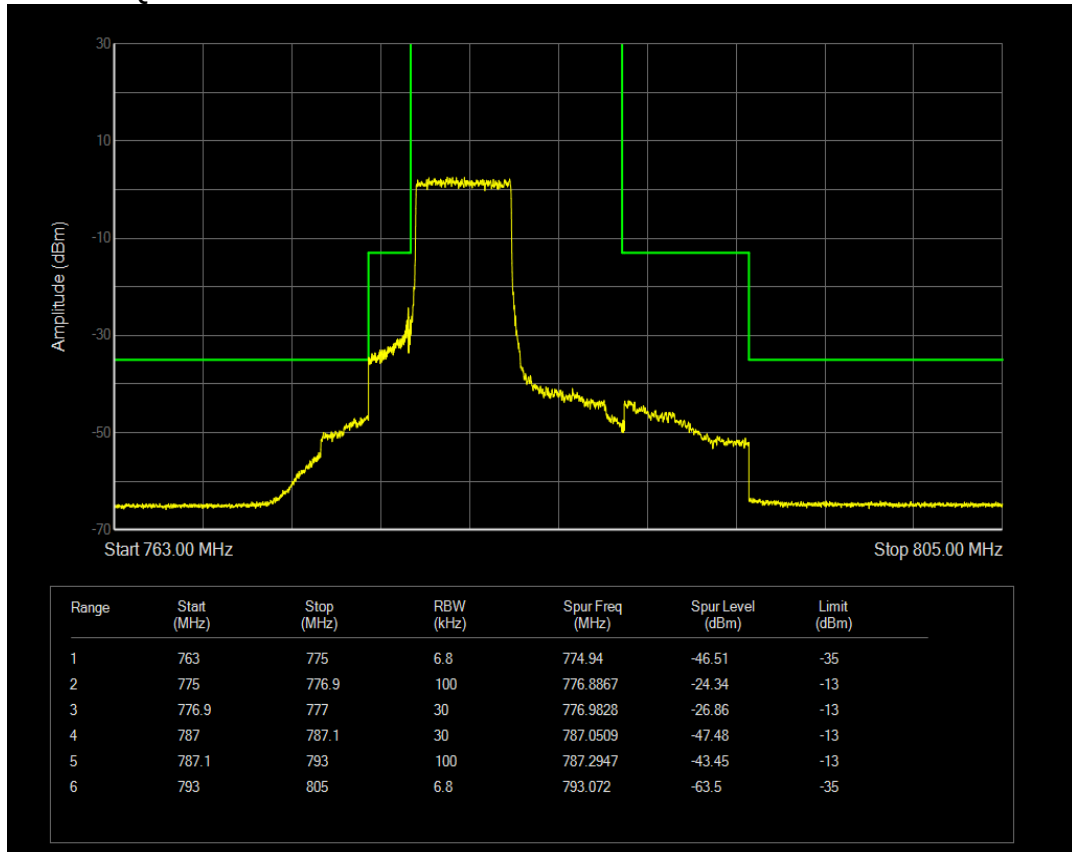




Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#Max

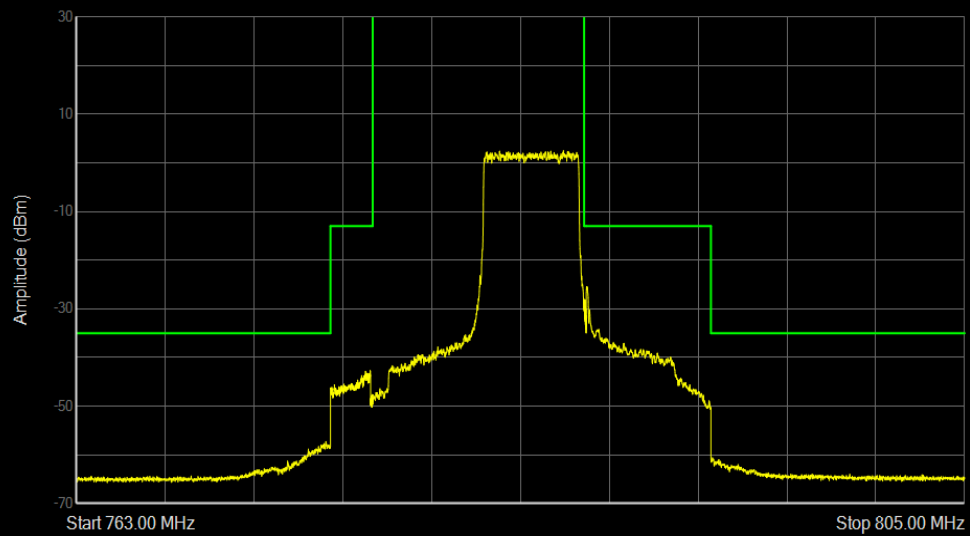


Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



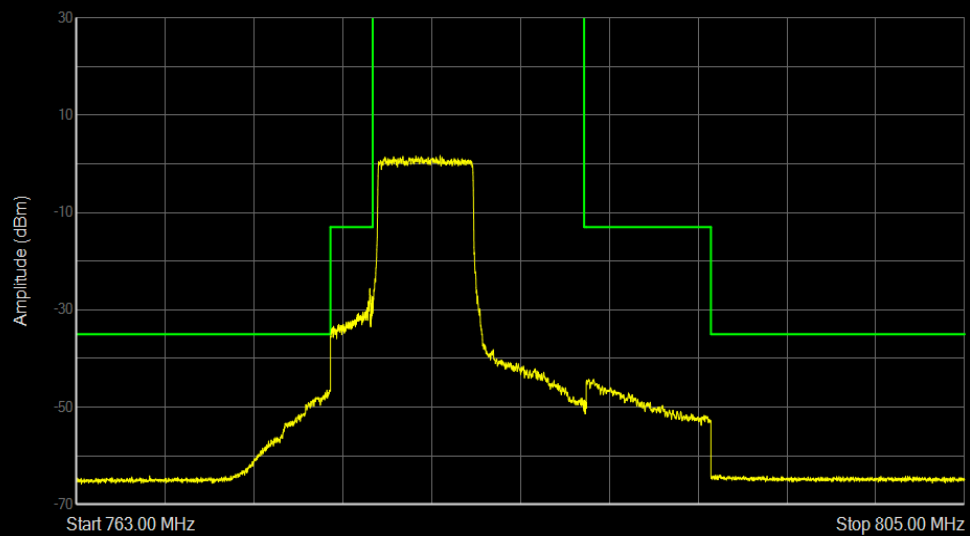


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.784	-57.28	-35
2	775	776.9	100	776.8829	-42.7	-13
3	776.9	777	30	776.9941	-47.63	-13
4	787	787.1	30	787.0404	-28.2	-13
5	787.1	793	100	787.1177	-25.41	-13
6	793	805	6.8	793.072	-60.62	-35

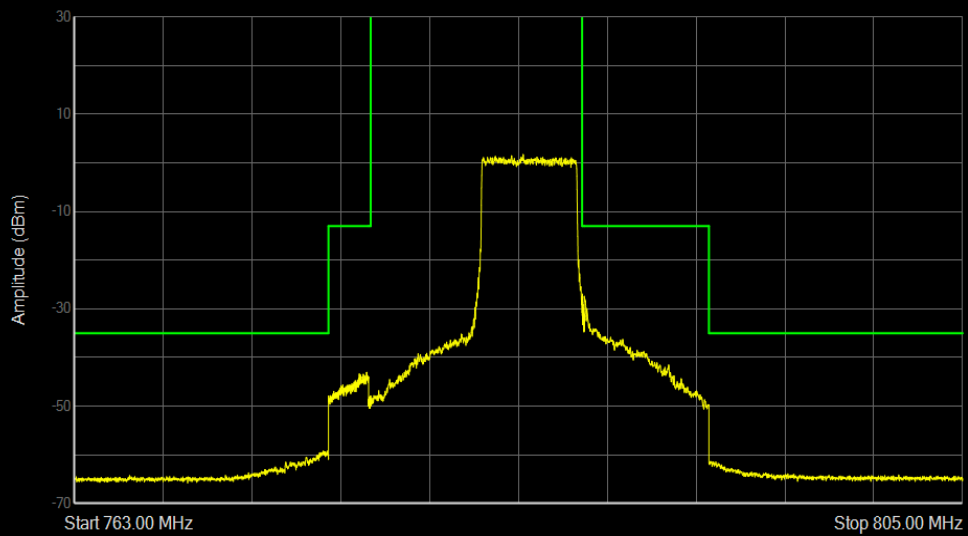
Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.832	-46.52	-35
2	775	776.9	100	776.8658	-25.61	-13
3	776.9	777	30	776.9959	-27.36	-13
4	787	787.1	30	787.003	-48.56	-13
5	787.1	793	100	787.4422	-44.33	-13
6	793	805	6.8	793.216	-63.97	-35

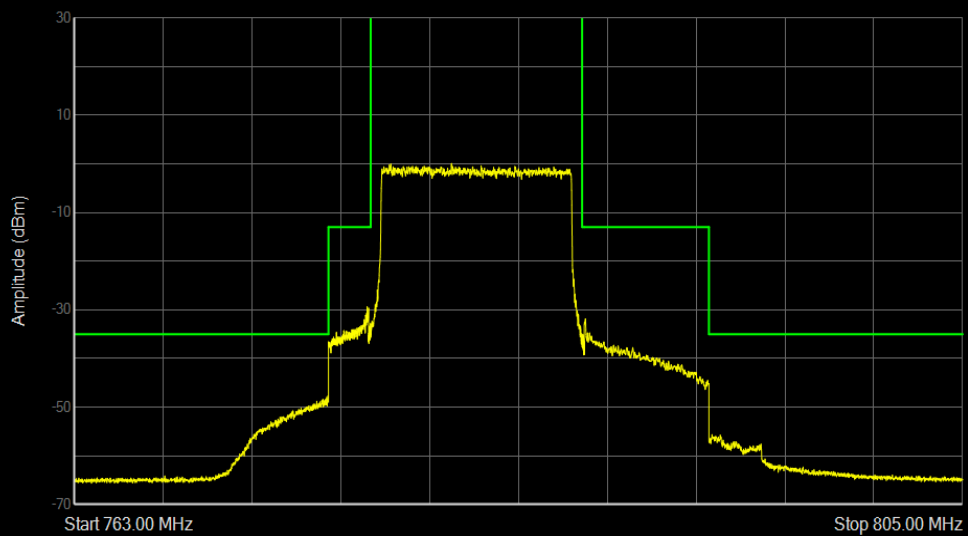


Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.76	-59.21	-35
2	775	776.9	100	776.8069	-43.04	-13
3	776.9	777	30	776.9943	-47.93	-13
4	787	787.1	30	787.0148	-26.98	-13
5	787.1	793	100	787.1059	-27.74	-13
6	793	805	6.8	793.084	-61.37	-35

Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.976	-47.71	-35
2	775	776.9	100	776.8297	-29.36	-13
3	776.9	777	30	776.9991	-32.86	-13
4	787	787.1	30	787.0404	-35.14	-13
5	787.1	793	100	787.1531	-31.84	-13
6	793	805	6.8	793.144	-55.65	-35

***** END *****