



FCC Test Report

ANNEX 2 LTE BAND 2

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. 25, 2022
Date of Report: Oct. 25, 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.



TABLE OF CONTENTS

Test Report Declaration	Page
1. EMISSION TEST RESULTS	3
1.1. -26dB and 99% Occupied Bandwidth	3
1.2. Conducted Spurious Emissions	18
1.3. Conducted Out of Band Emissions	32

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

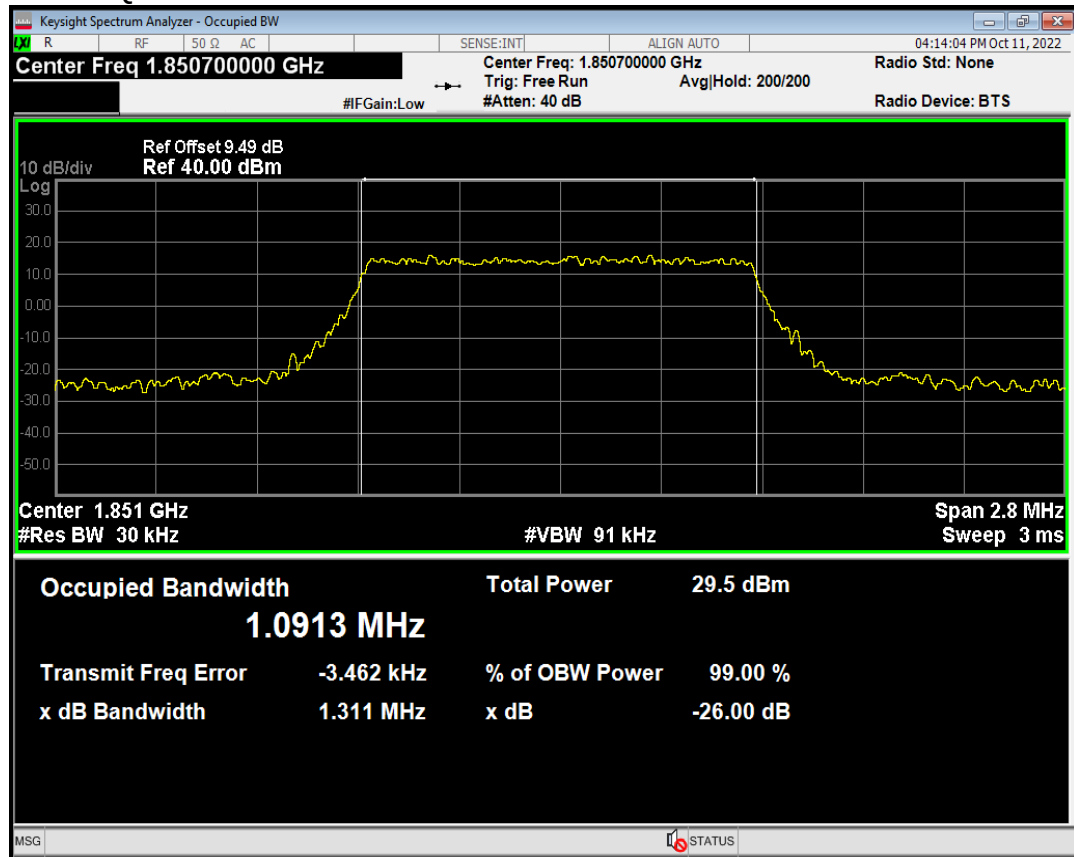
EUT Mode Bandwidth	Frequency (MHz)	Modulation	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
LTE Band 2 1.4MHz	1850.7	QPSK	1.091	1.311
		16-QAM	1.094	1.293
	1880.0	QPSK	1.099	1.282
		16-QAM	1.097	1.286
	1909.3	QPSK	1.098	1.276
		16-QAM	1.104	1.298
LTE Band 2 3 MHz	1851.5	QPSK	2.702	2.982
		16-QAM	2.704	2.973
	1880.0	QPSK	2.703	3.006
		16-QAM	2.703	2.980
	1908.5	QPSK	2.711	2.982
		16-QAM	2.703	3.002
LTE Band 2 5 MHz	1852.5	QPSK	4.505	5.032
		16-QAM	4.497	4.995
	1880.0	QPSK	4.526	4.986
		16-QAM	4.511	4.970
	1907.5	QPSK	4.499	4.975
		16-QAM	4.518	4.976
LTE Band 2 10 MHz	1855.0	QPSK	8.990	9.871
	1880.0	QPSK	8.965	9.813
	1905.0	QPSK	8.951	9.829
LTE Band 2 15 MHz	1857.5	QPSK	13.439	14.644
	1880.0	QPSK	13.396	14.546
	1902.5	QPSK	13.440	14.731
LTE Band 2 20 MHz	1860.0	QPSK	17.930	19.494
	1880.0	QPSK	17.873	19.371
	1900.0	QPSK	17.929	19.371

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

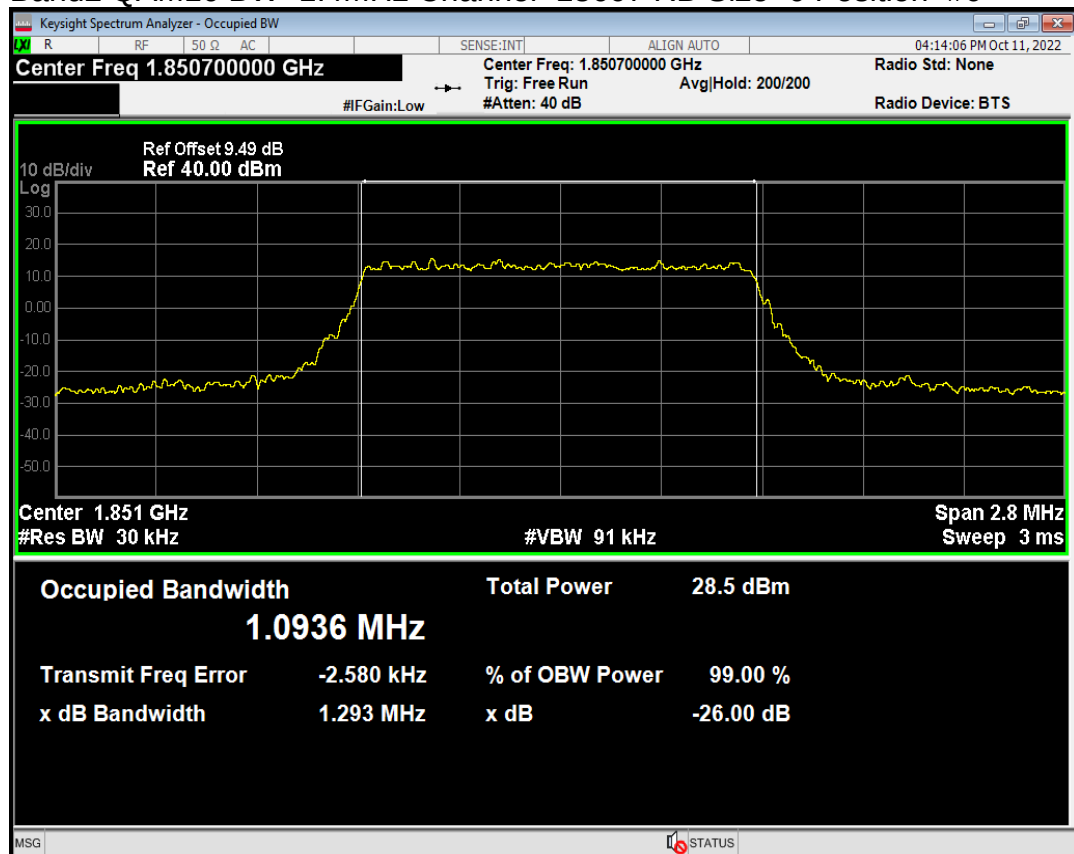
Test plot as follows:



Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

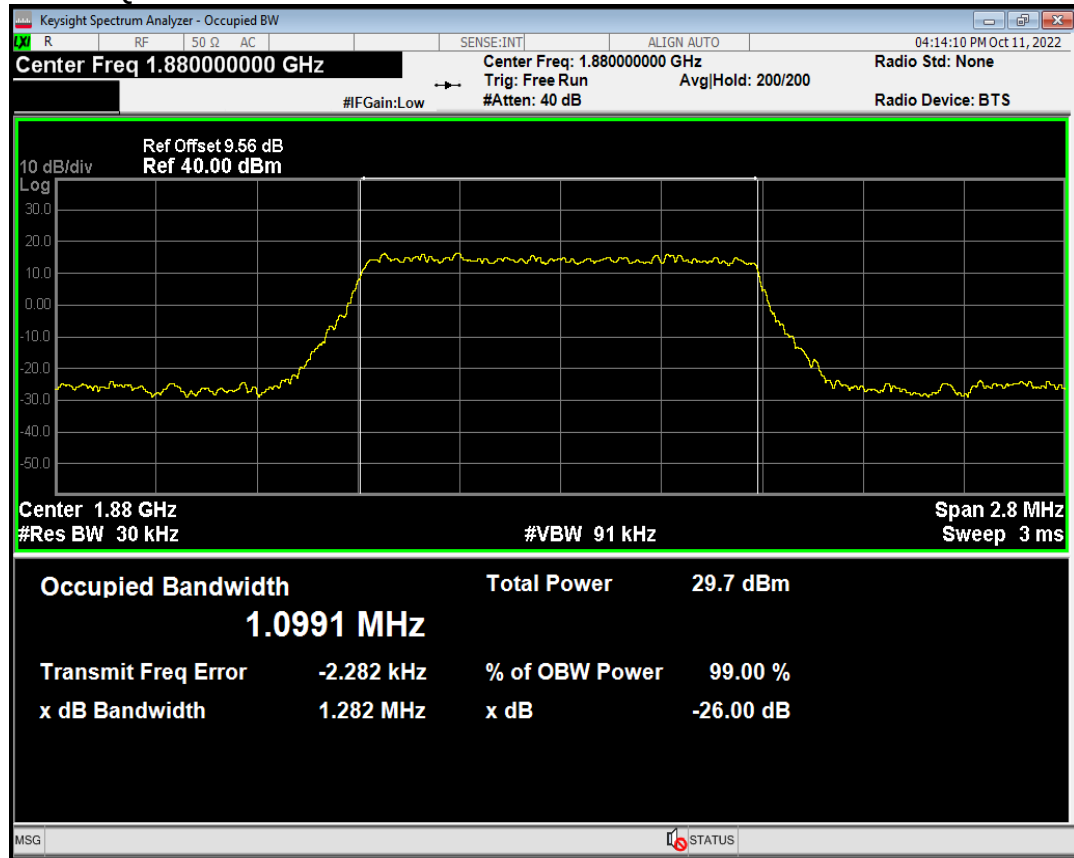


Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=6 Position=#0

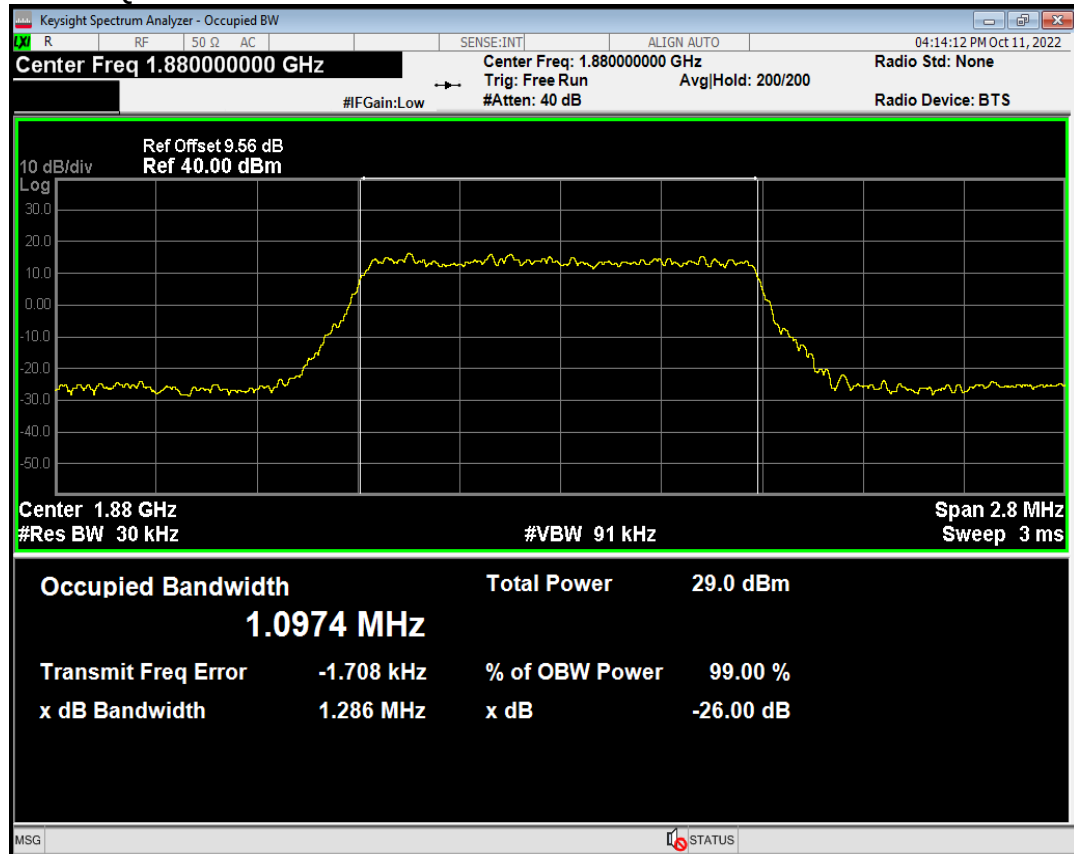




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0

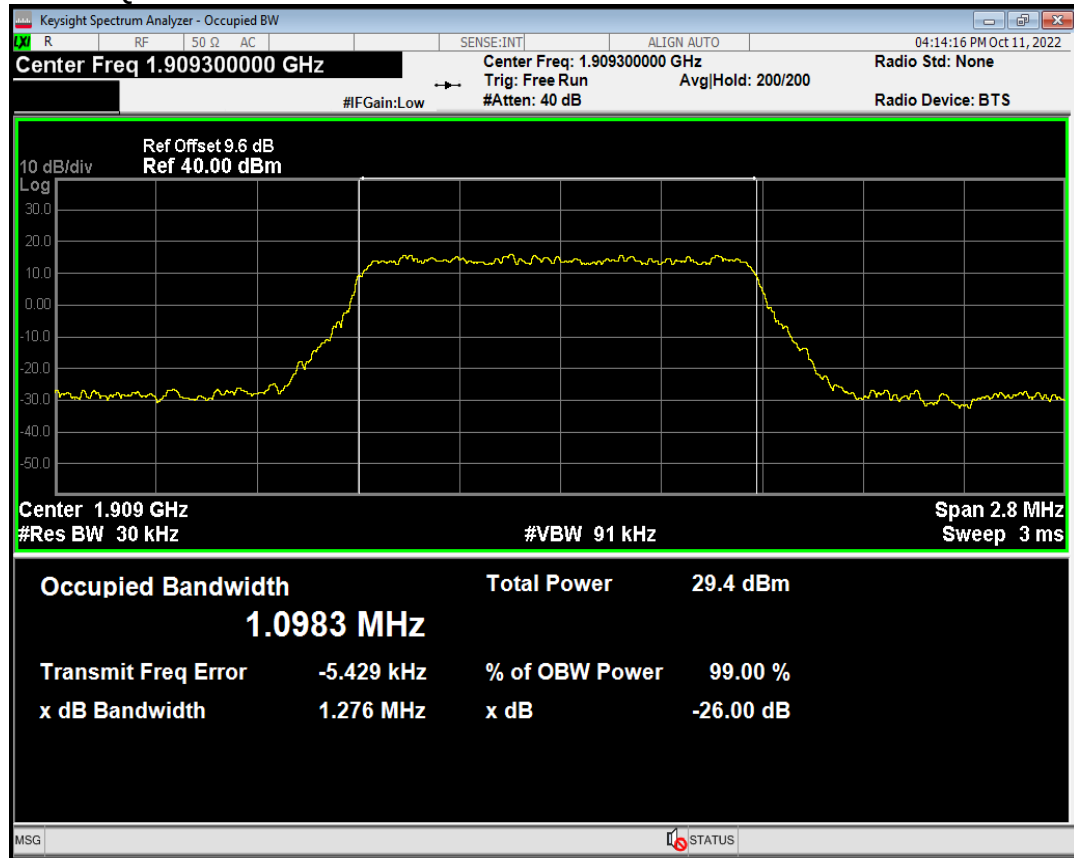


Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=6 Position=#0

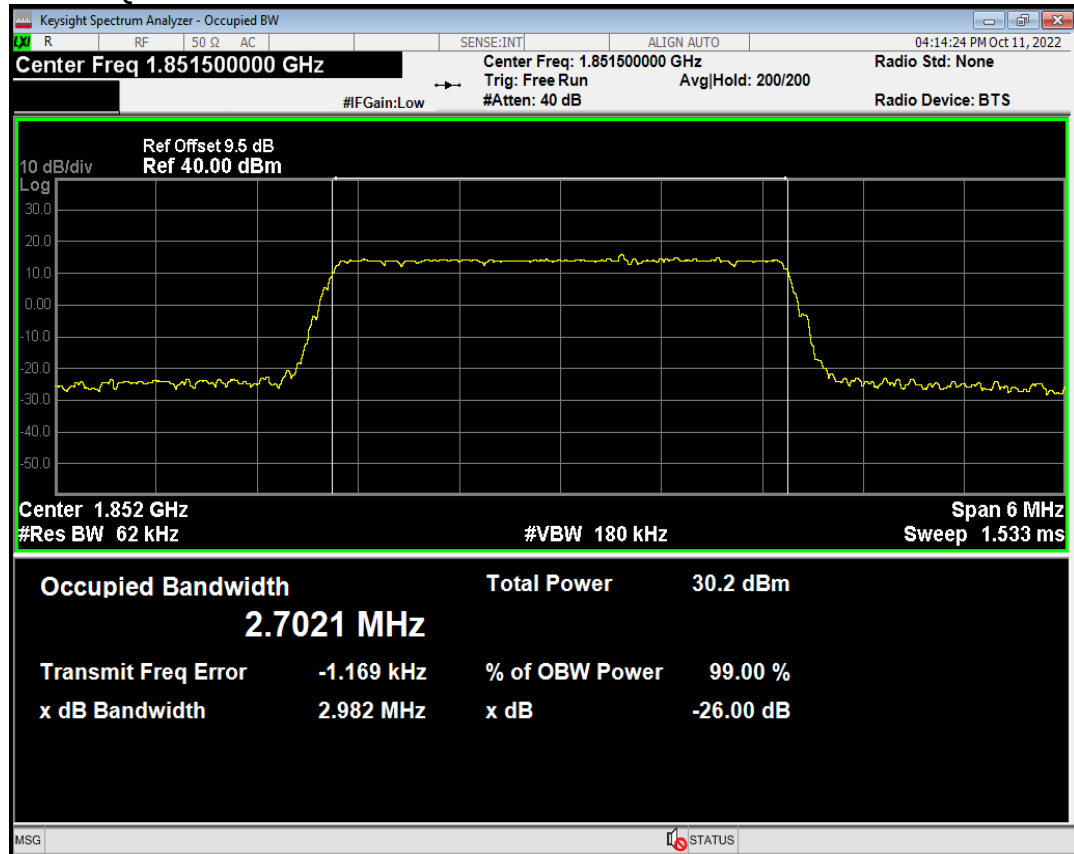




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

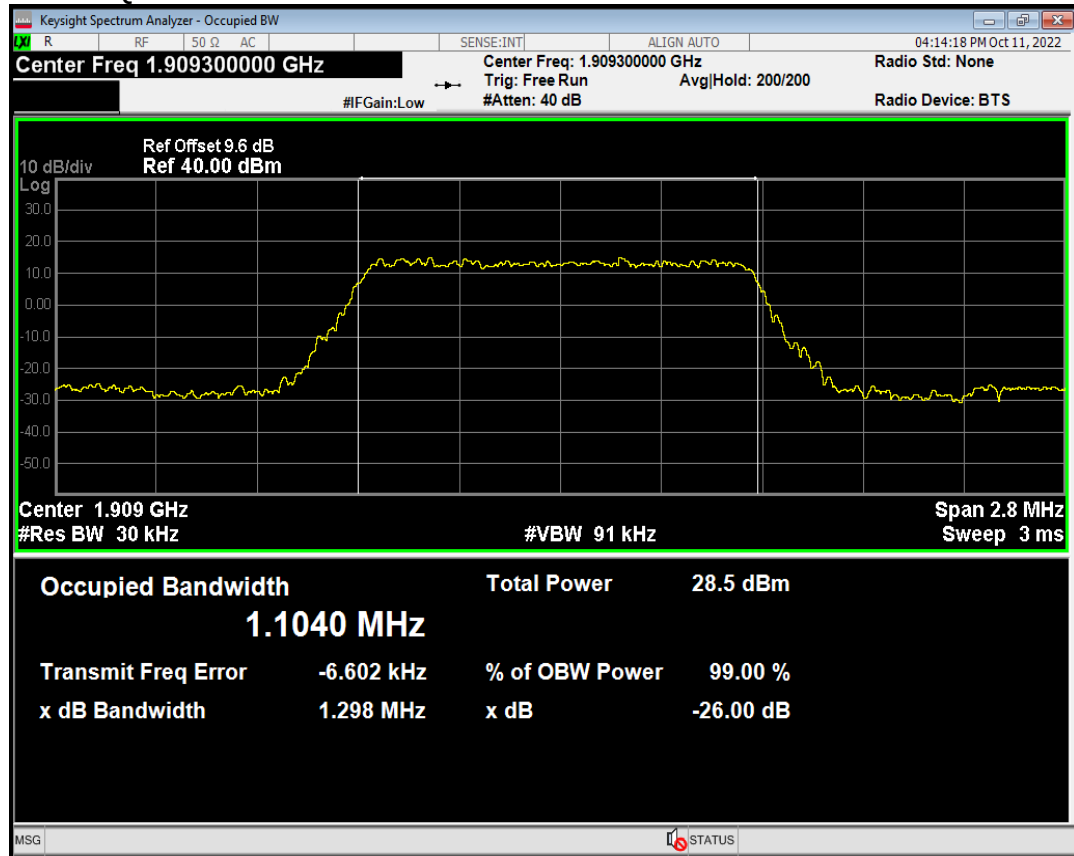


Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0

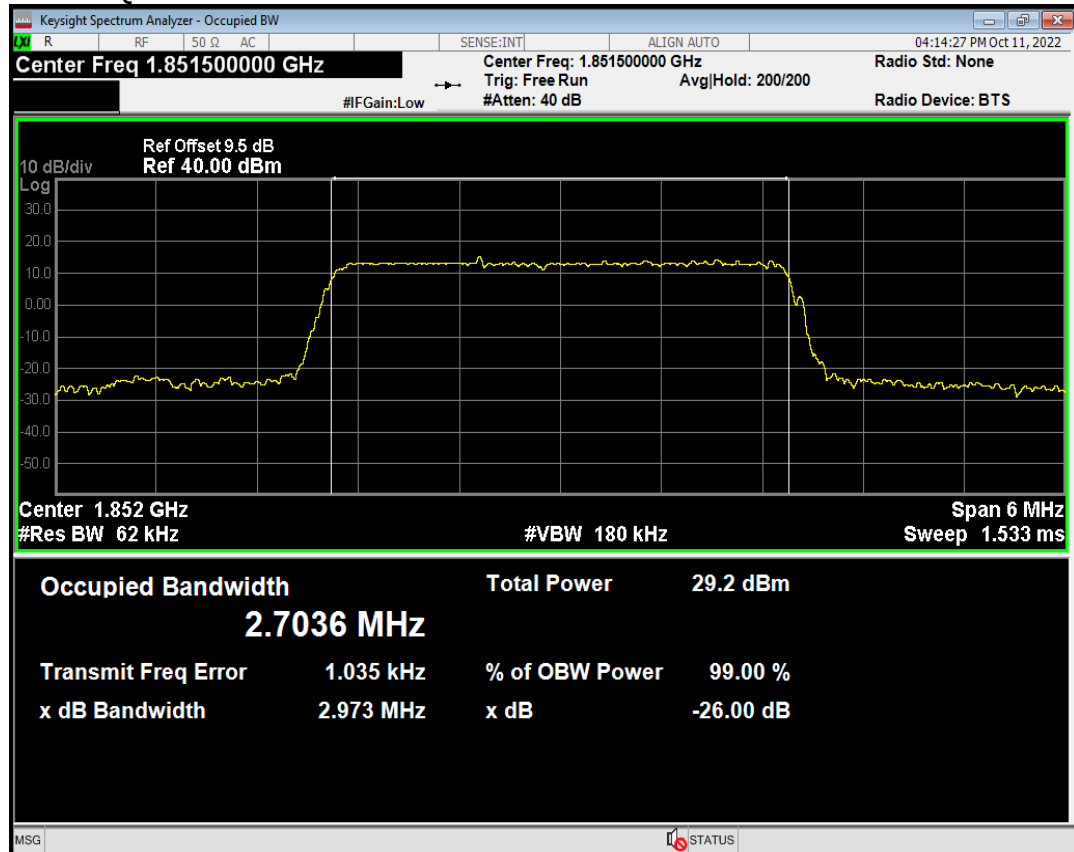




Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=6 Position=#0

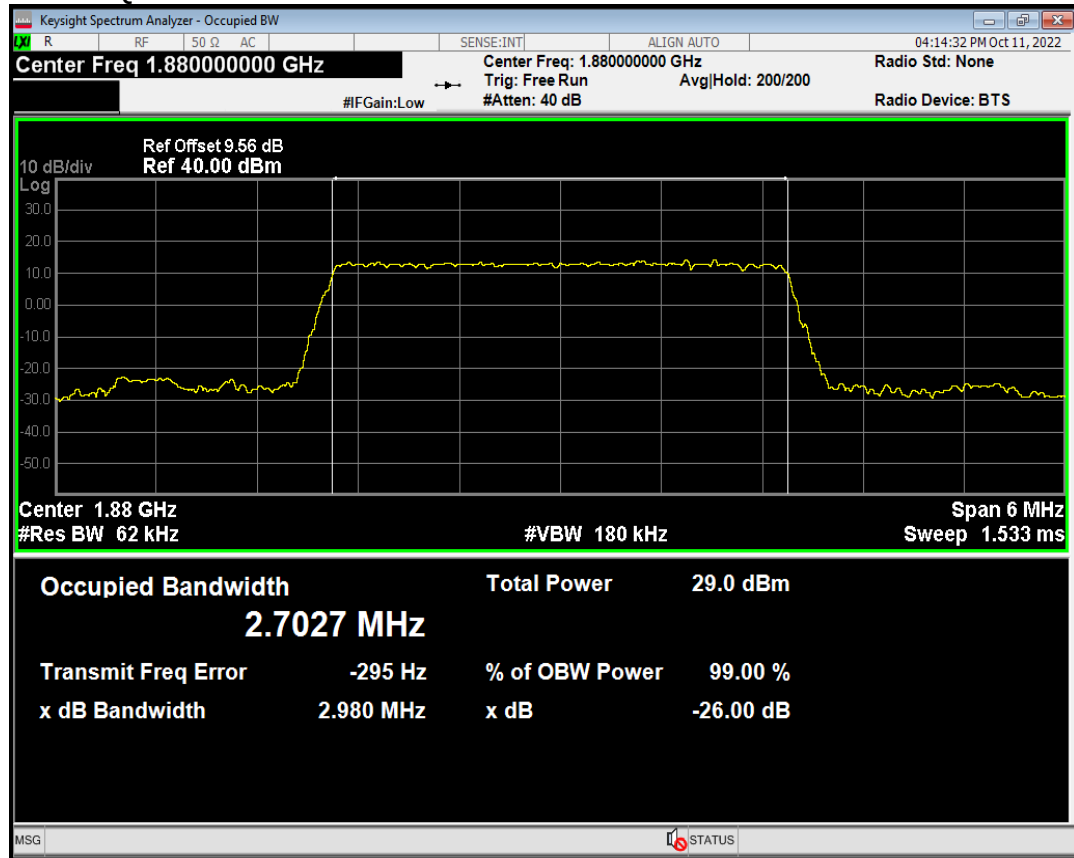


Band2 QAM16 BW=3MHz Channel=18615 RB Size=15 Position=#0

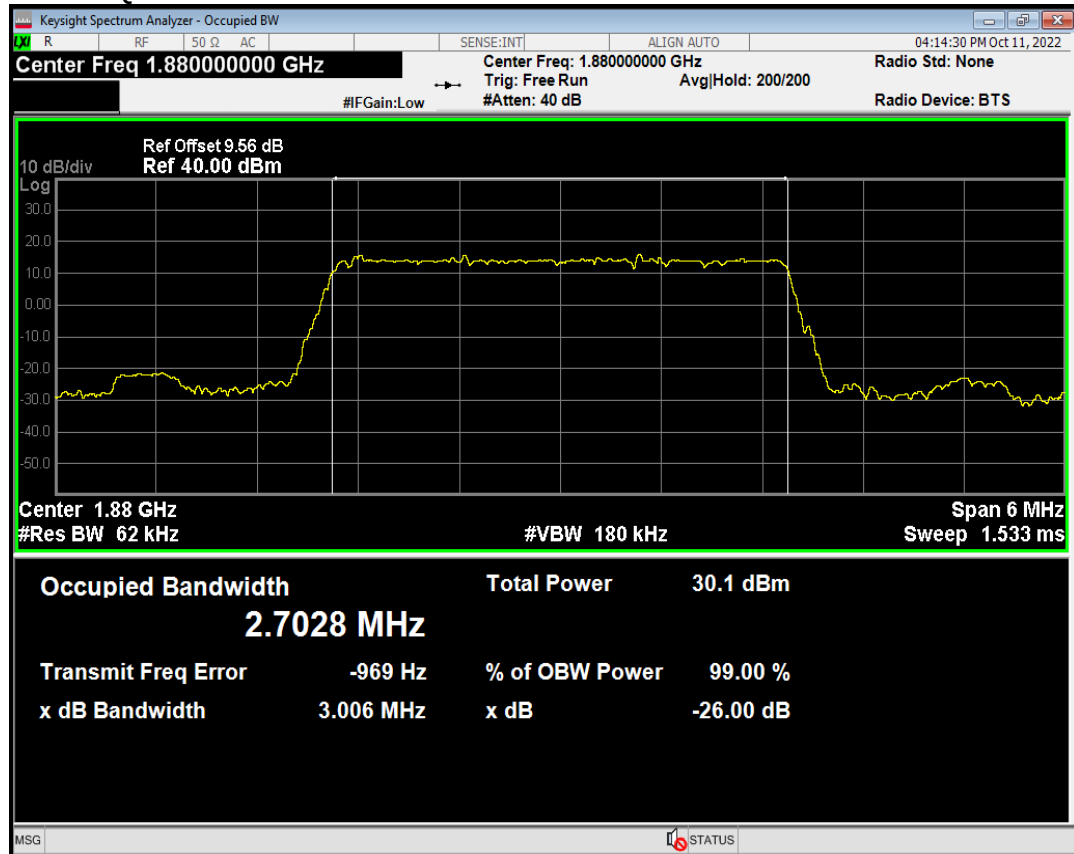




Band2 QAM16 BW=3MHz Channel=18900 RB Size=15 Position=#0

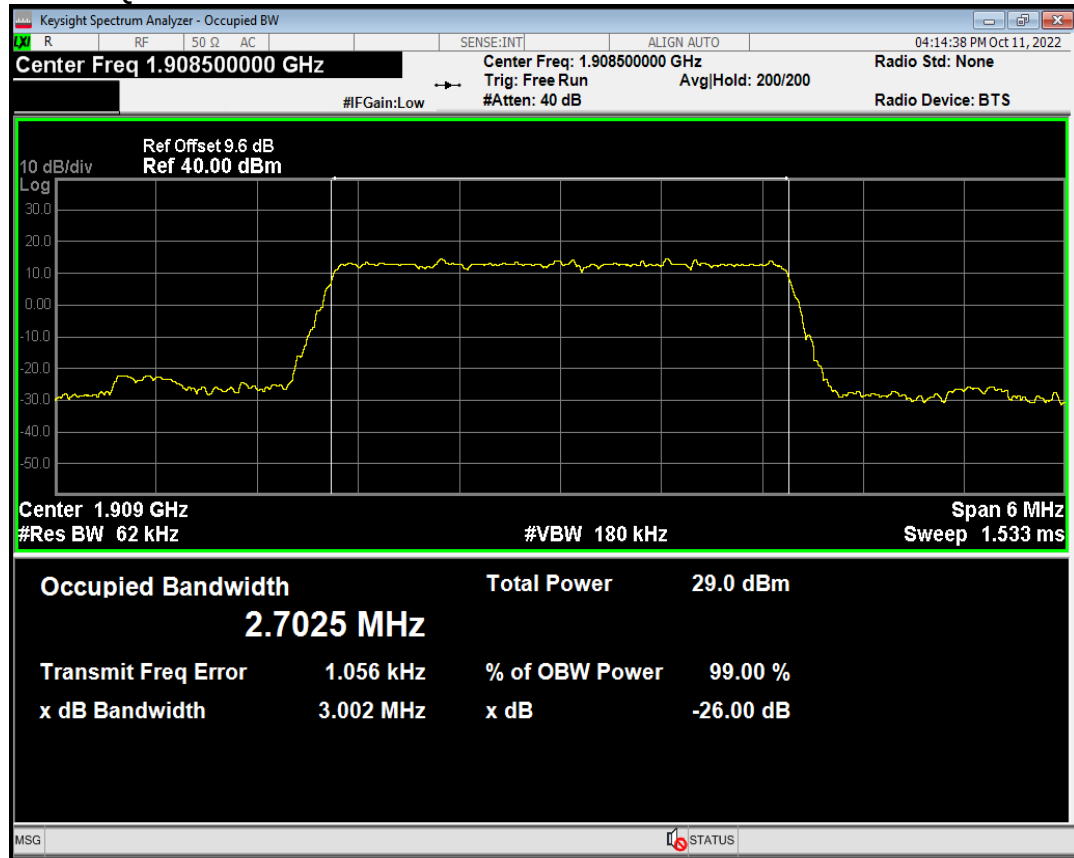


Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0

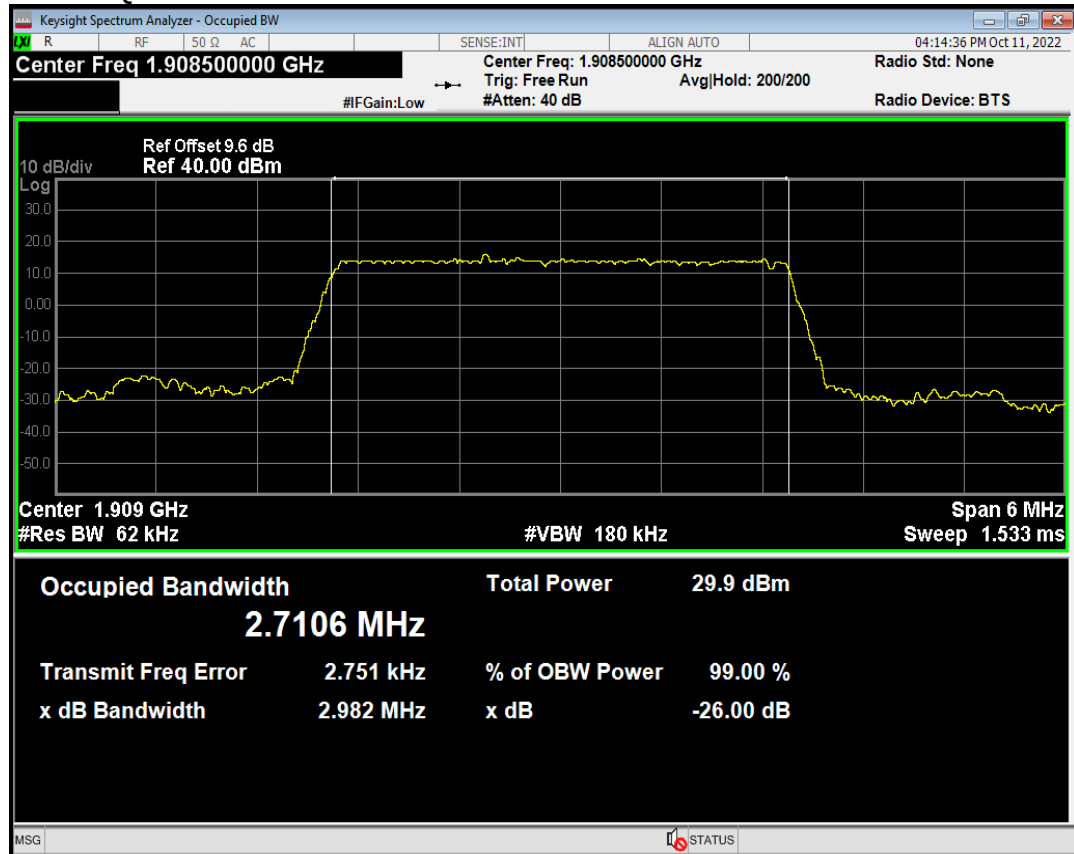




Band2 QAM16 BW=3MHz Channel=19185 RB Size=15 Position=#0

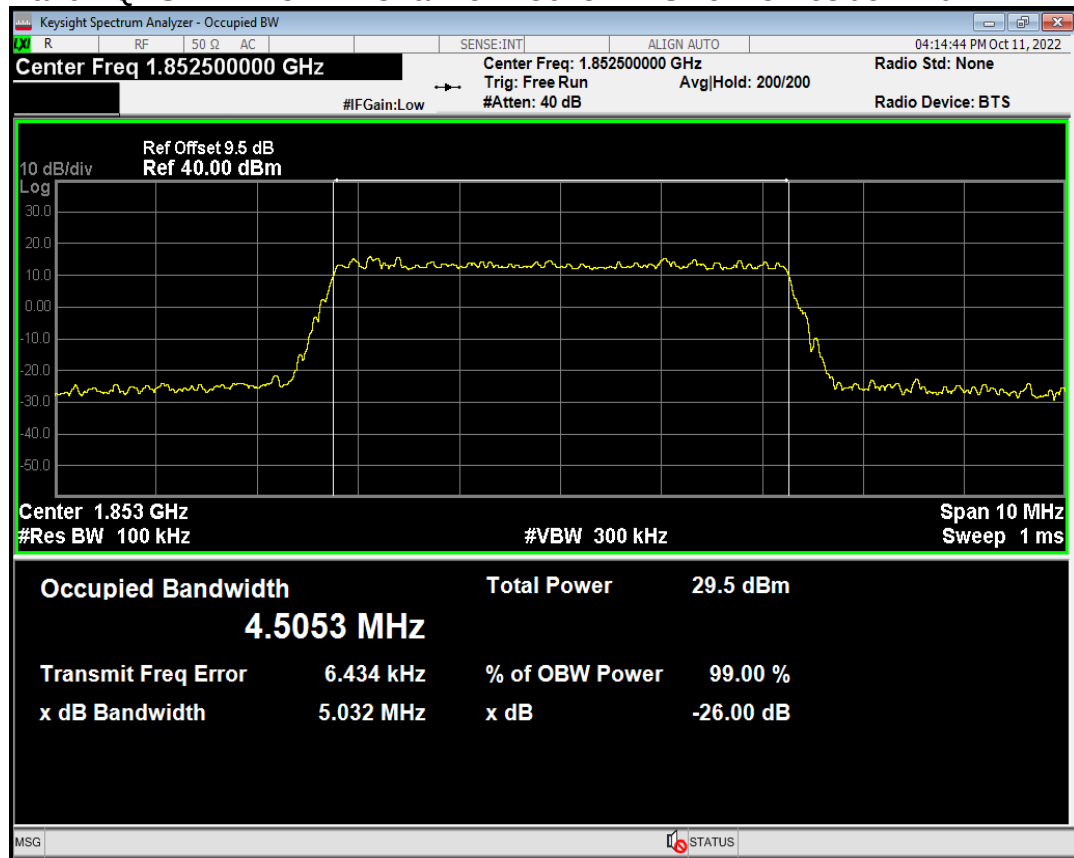


Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0

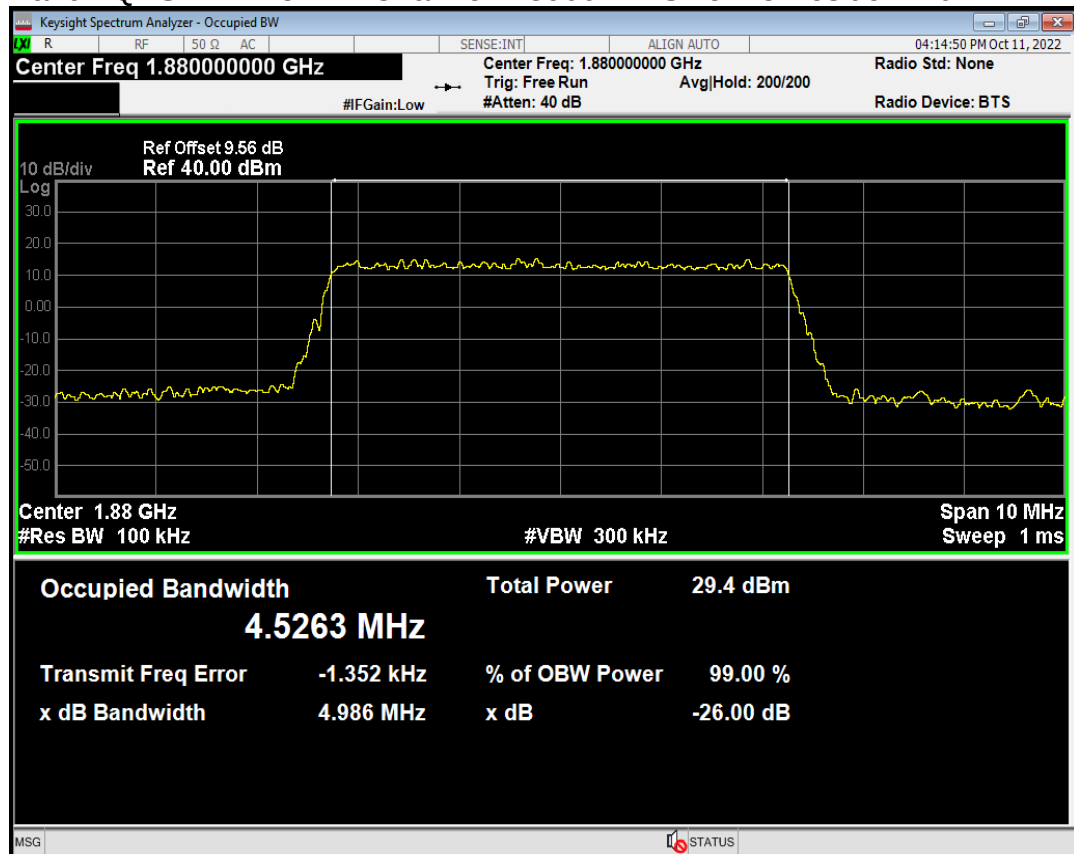




Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

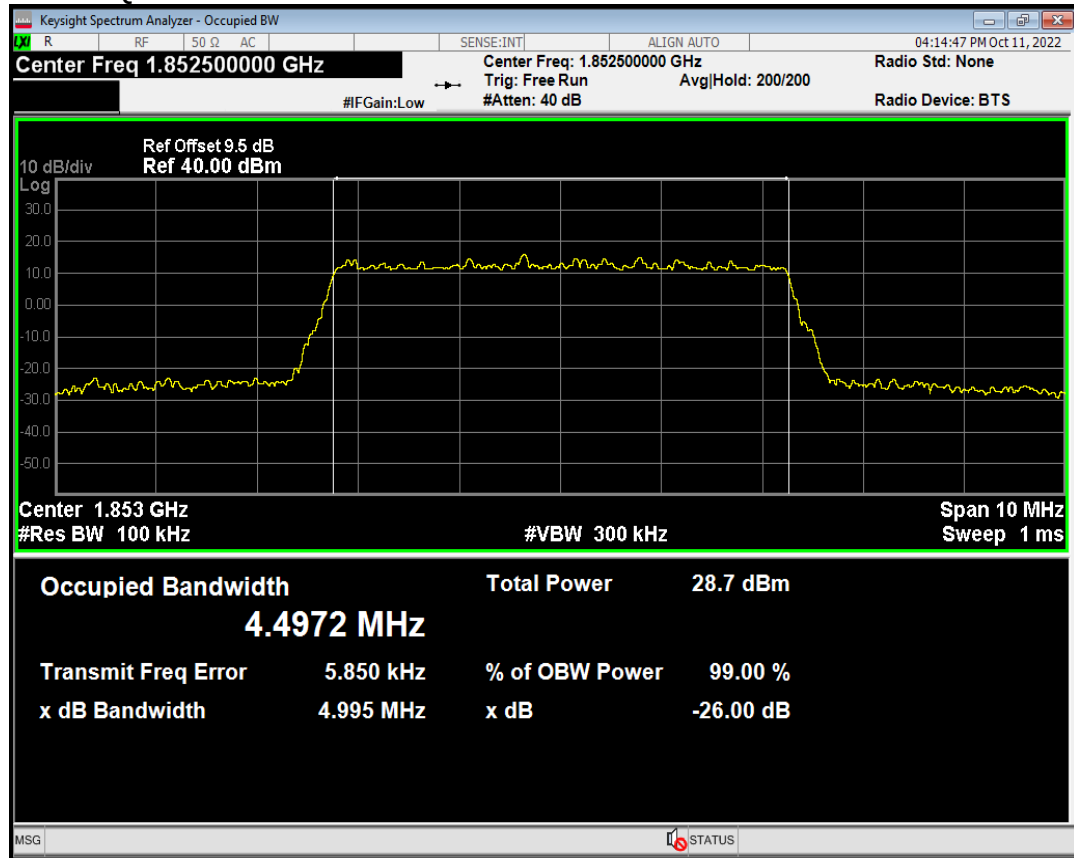


Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0

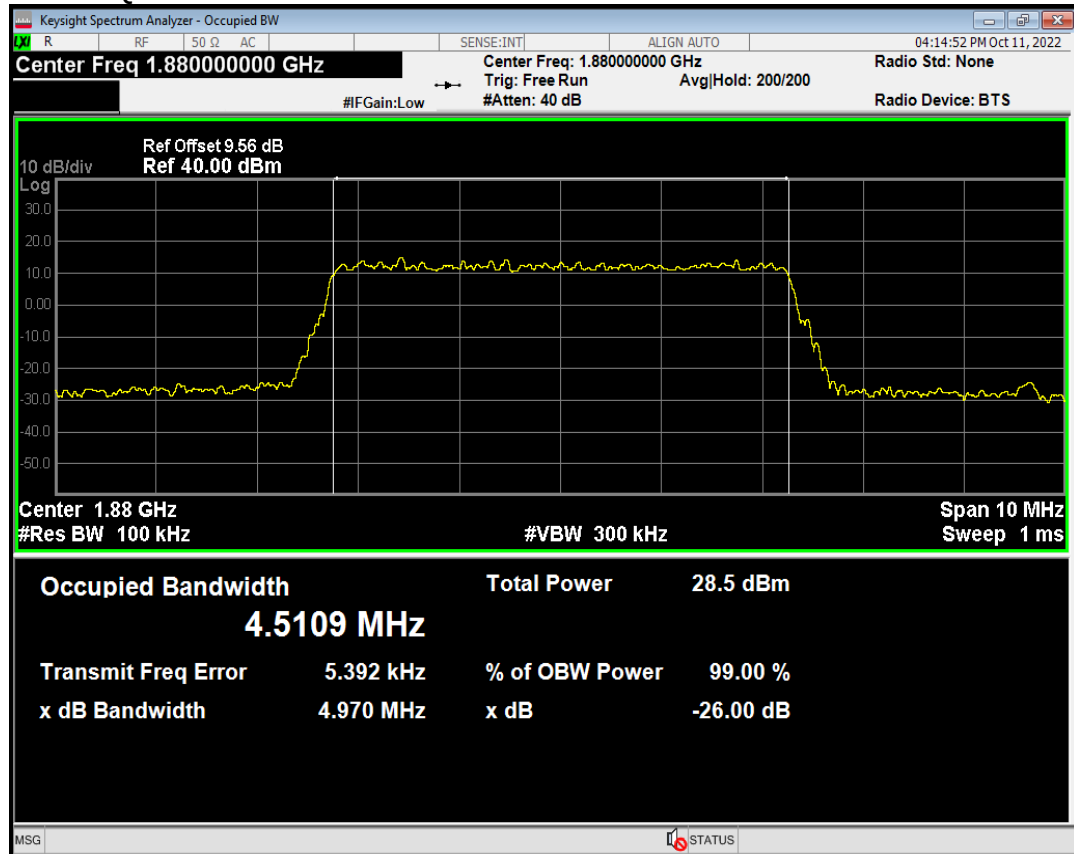




Band2 QAM16 BW=5MHz Channel=18625 RB Size=25 Position=#0

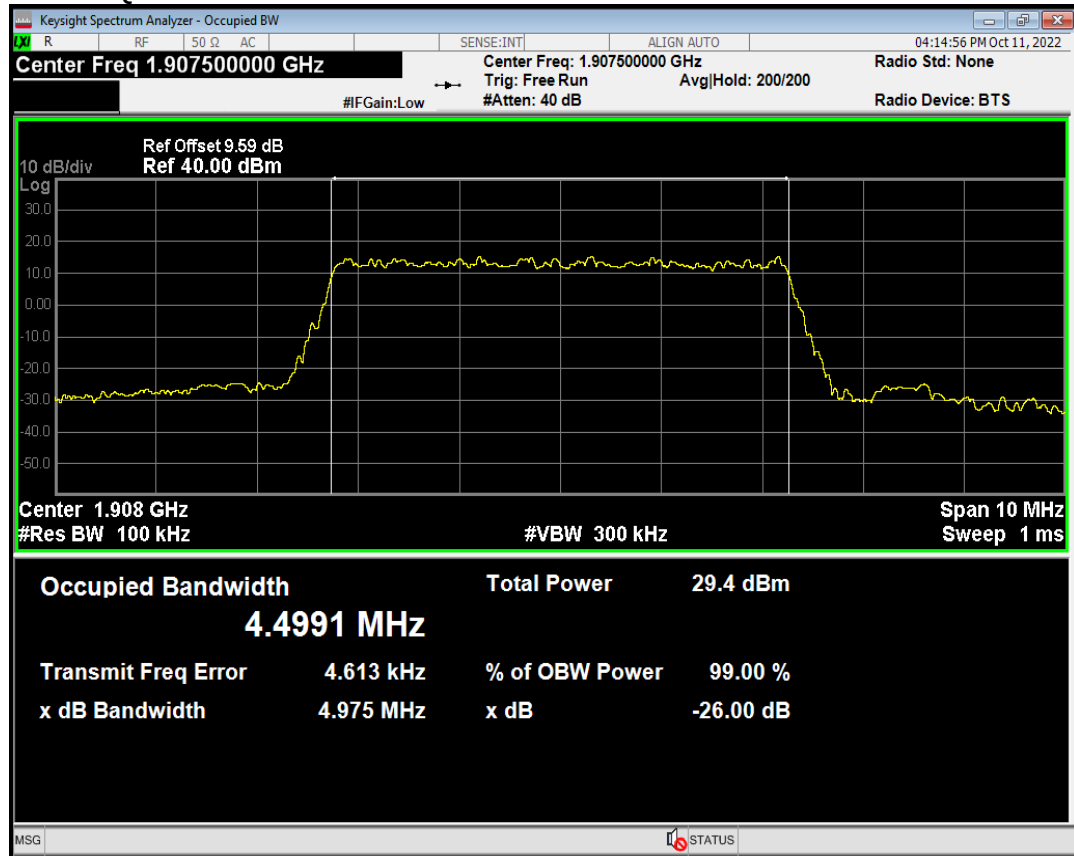


Band2 QAM16 BW=5MHz Channel=18900 RB Size=25 Position=#0

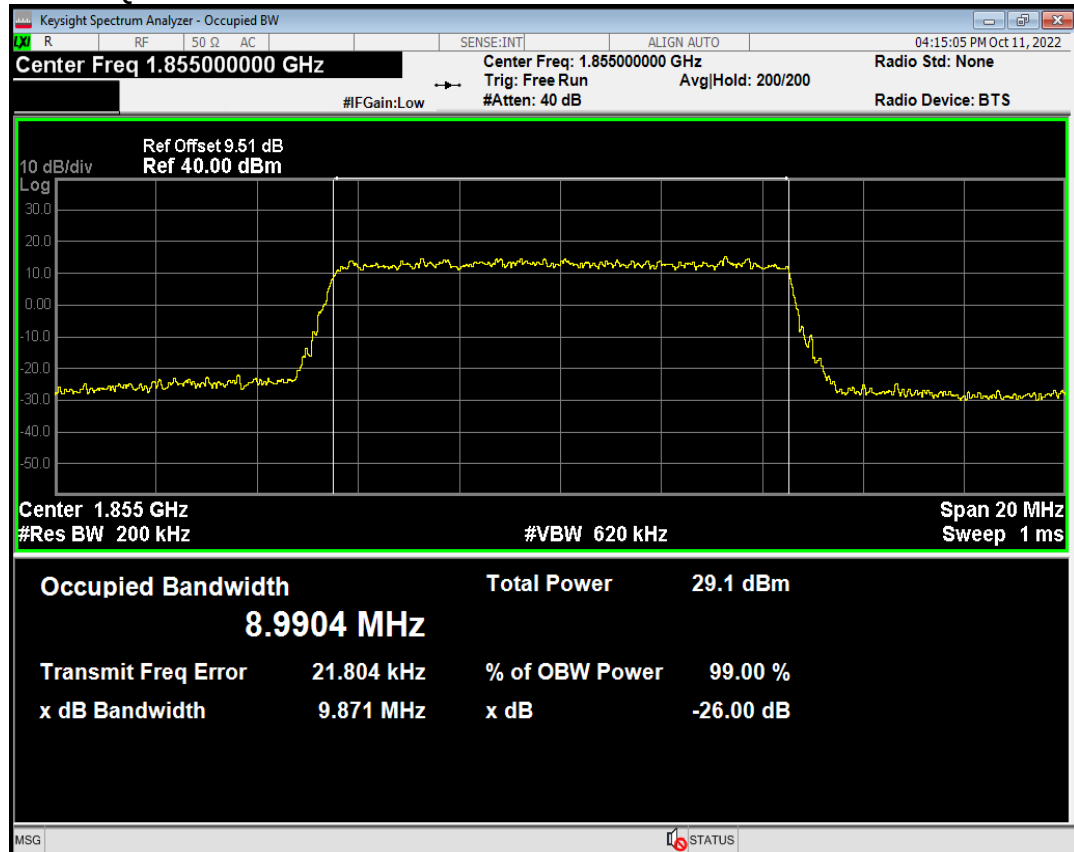




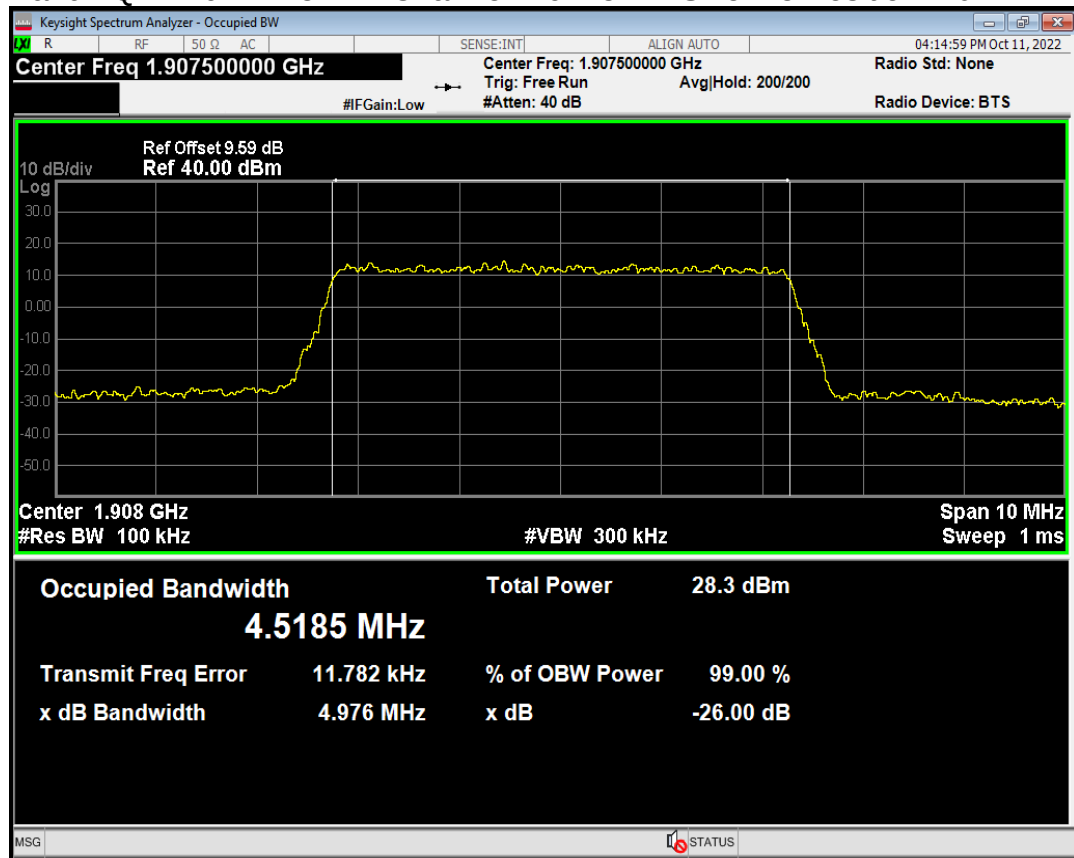
Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0



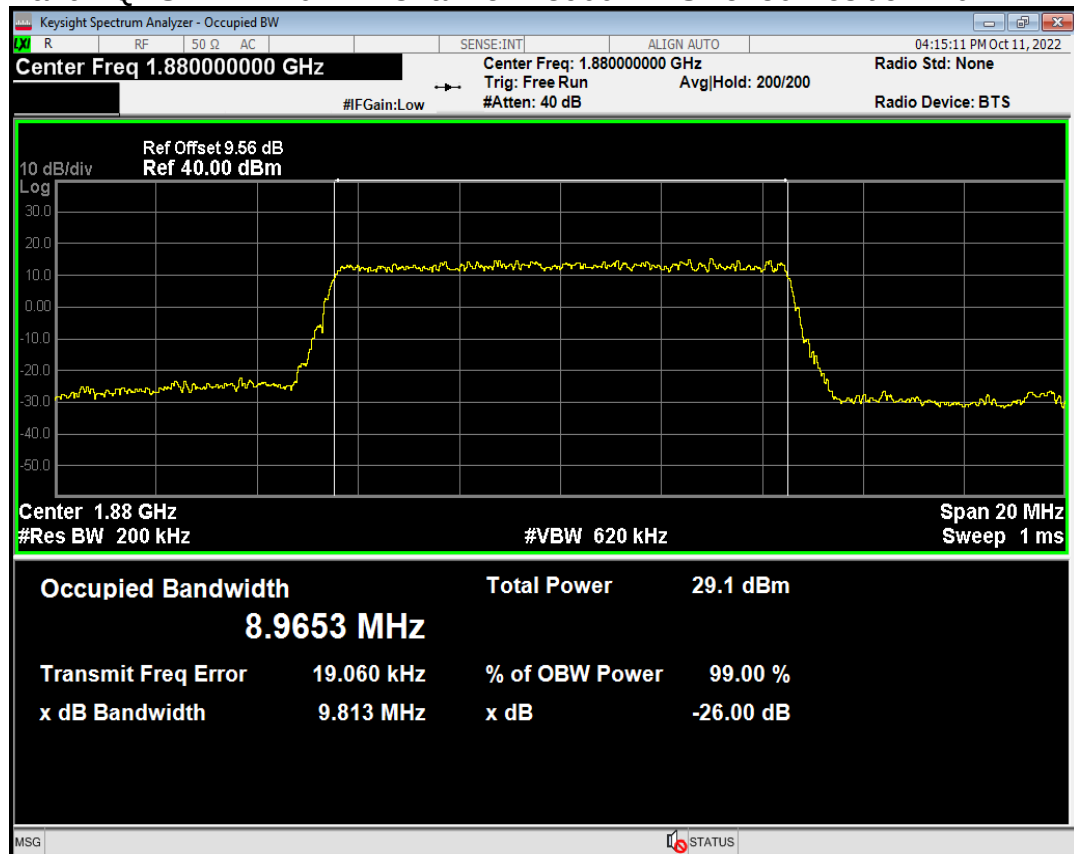
Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0



Band2 QAM16 BW=5MHz Channel=19175 RB Size=25 Position=#0

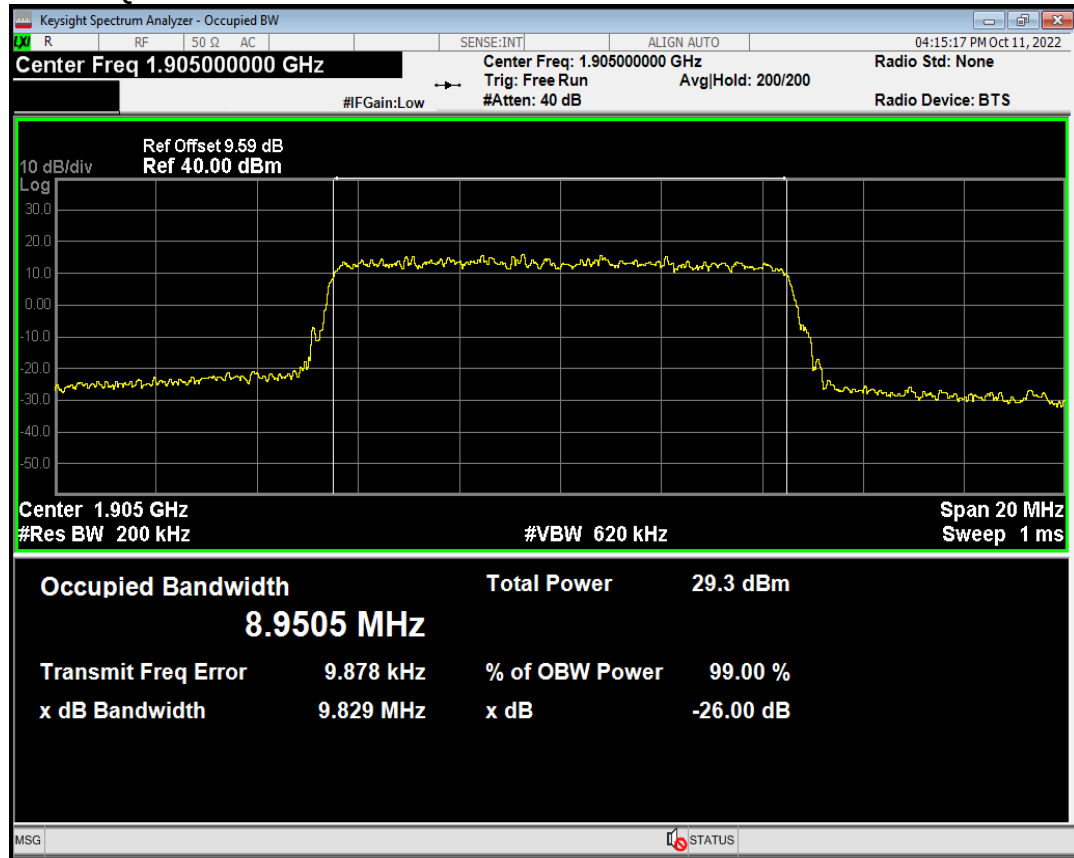


Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0

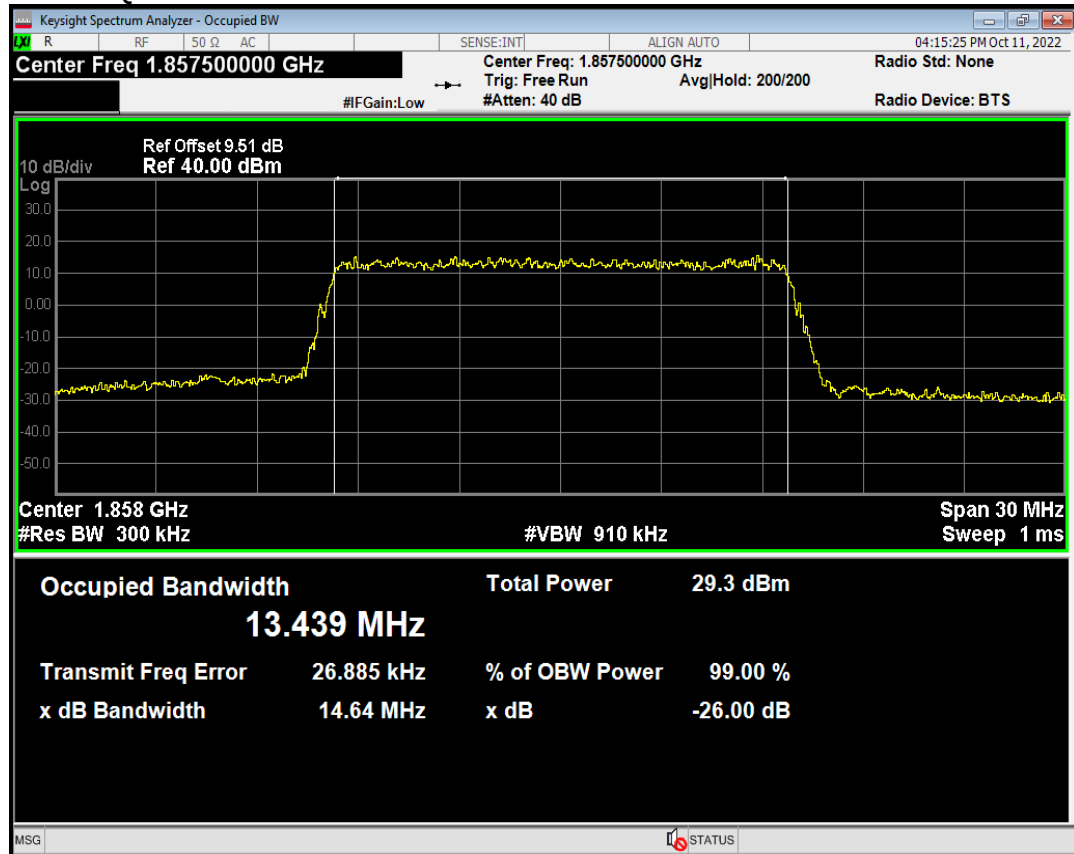




Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0

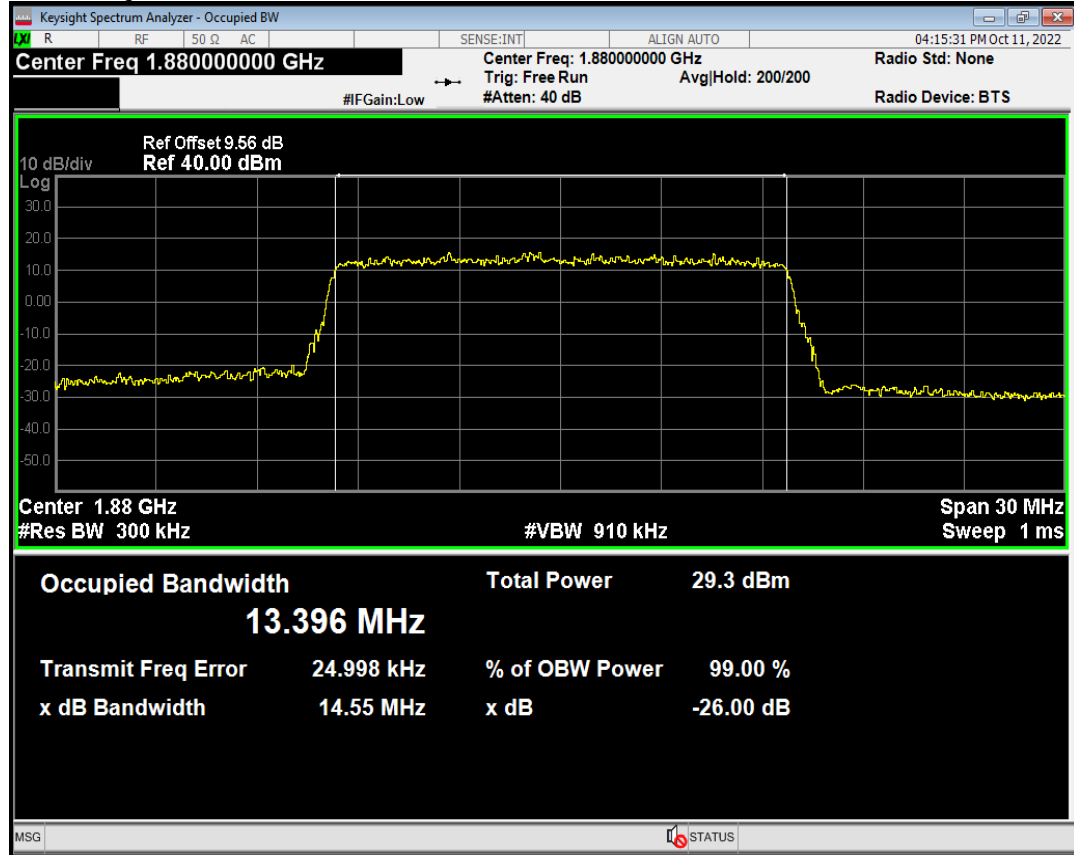


Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0

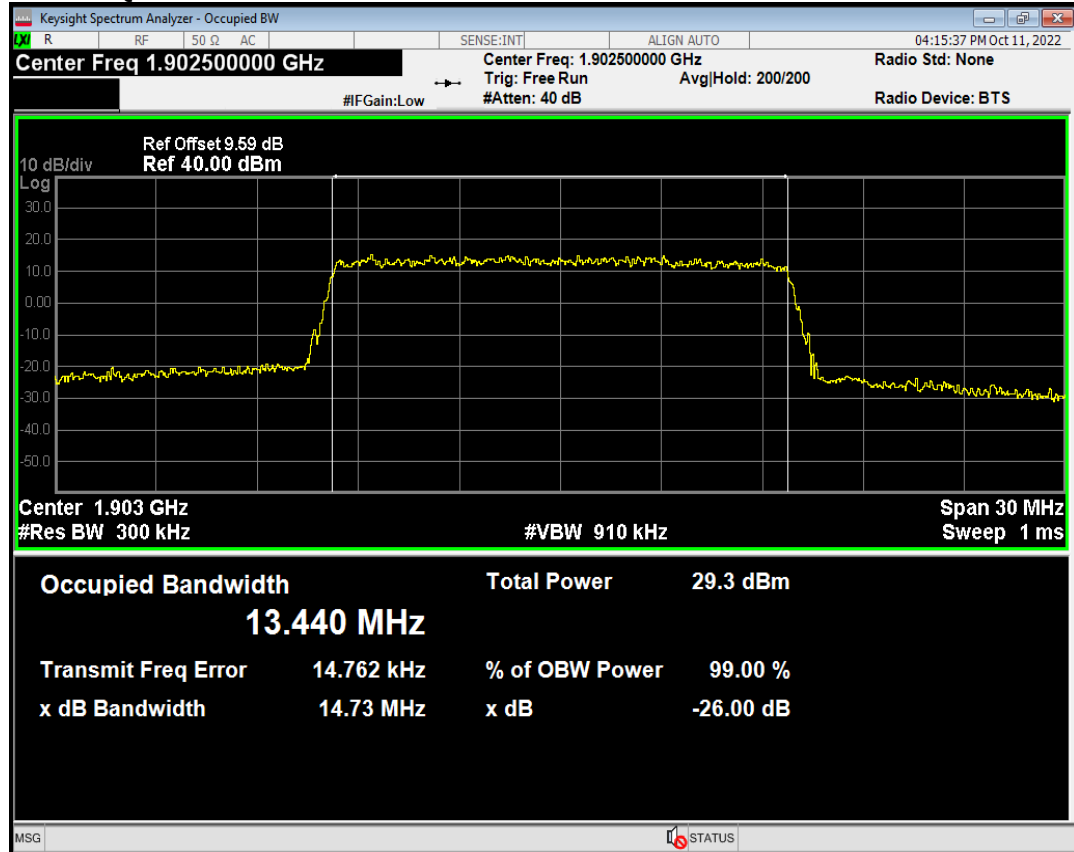




Band2 QPSK BW=15MHz Channel=18900 RB Size=75 Position=#0

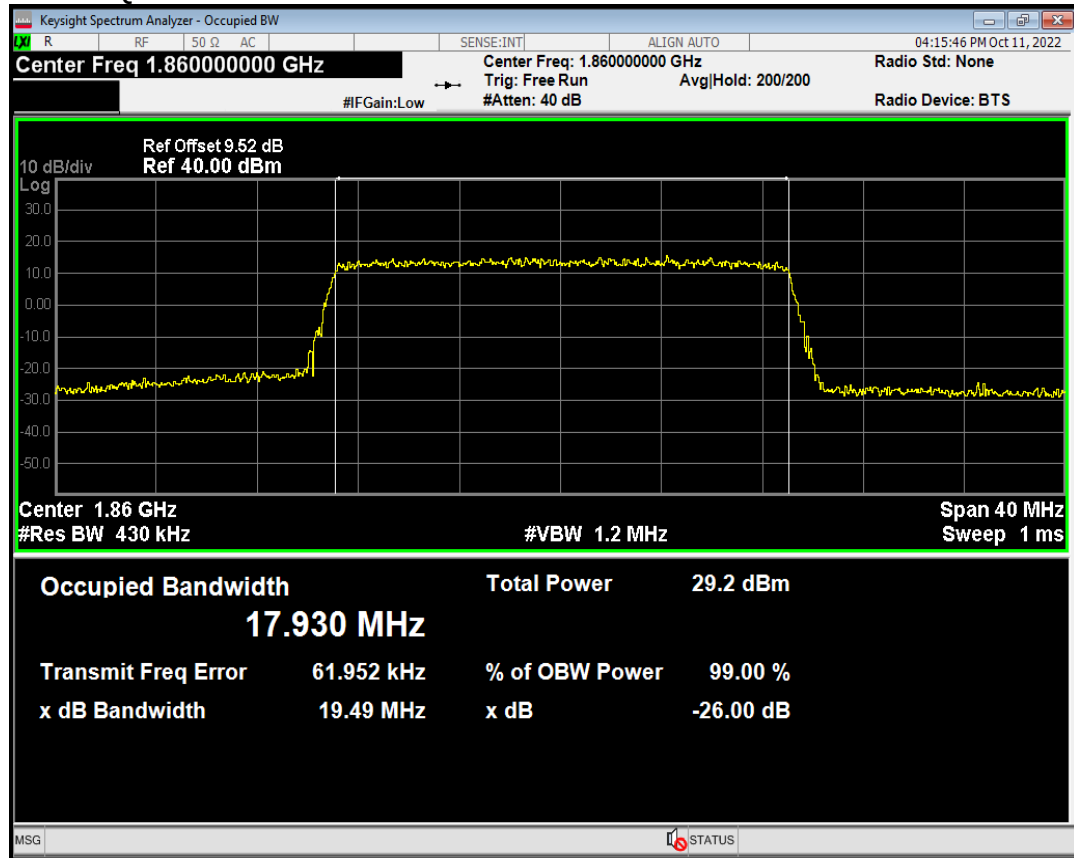


Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0

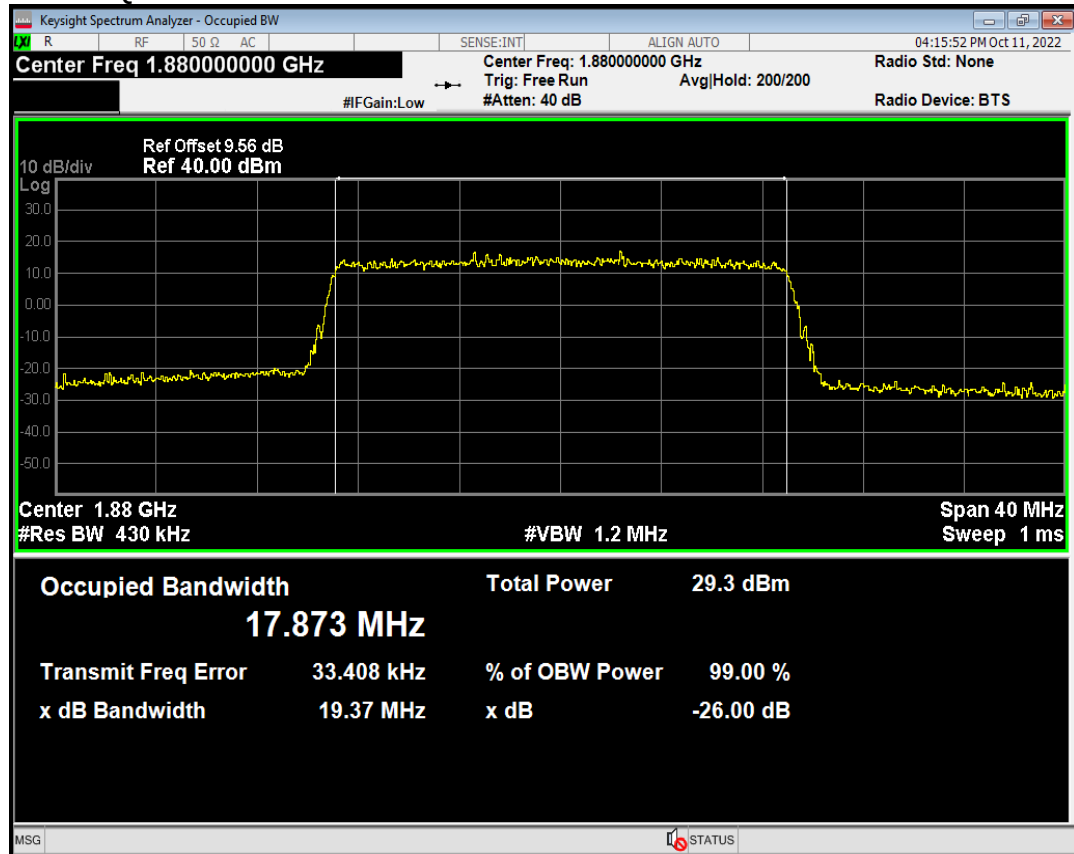




Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0

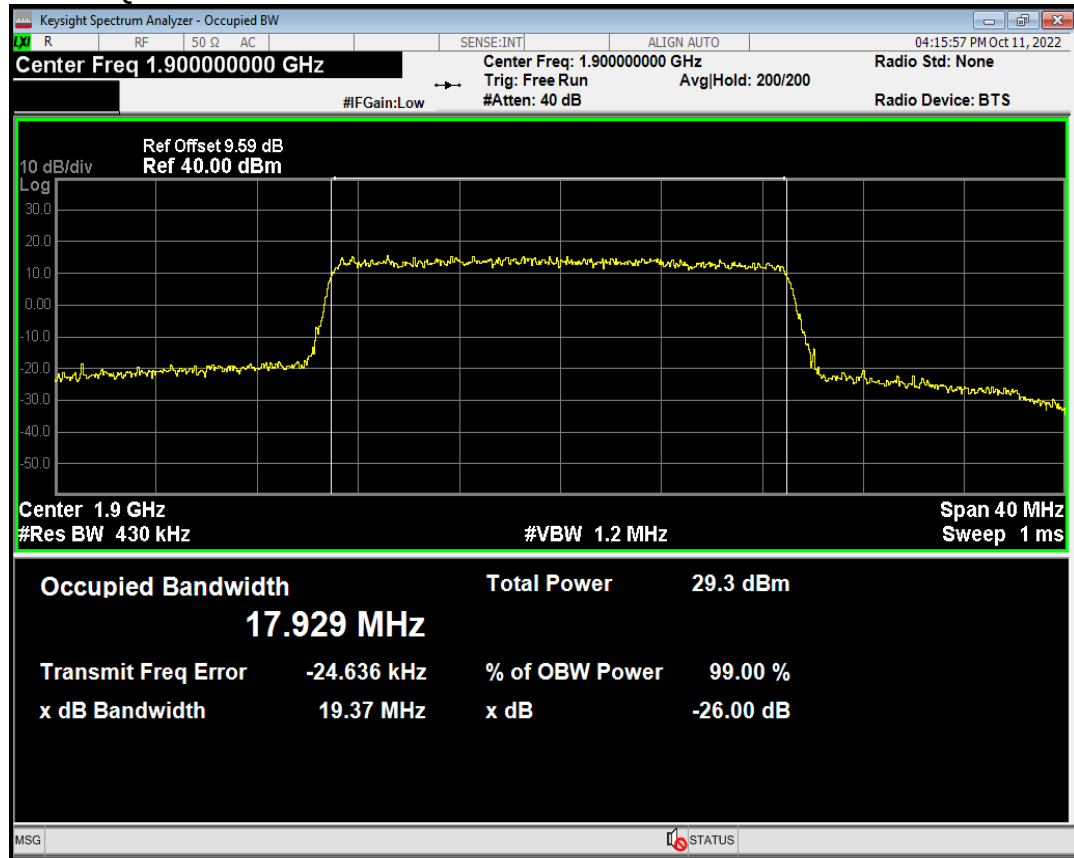


Band2 QPSK BW=20MHz Channel=18900 RB Size=100 Position=#0





Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0





1.2. Conducted Spurious Emissions

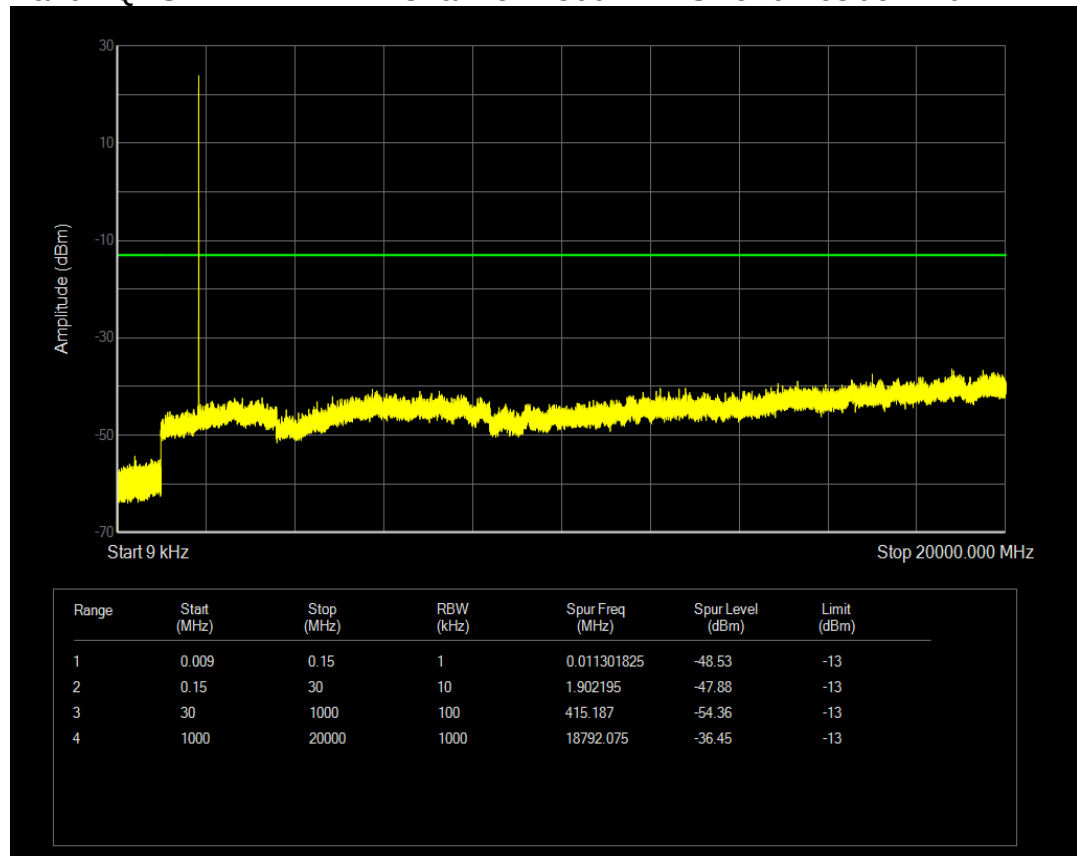
1.2.1. Test Result

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.

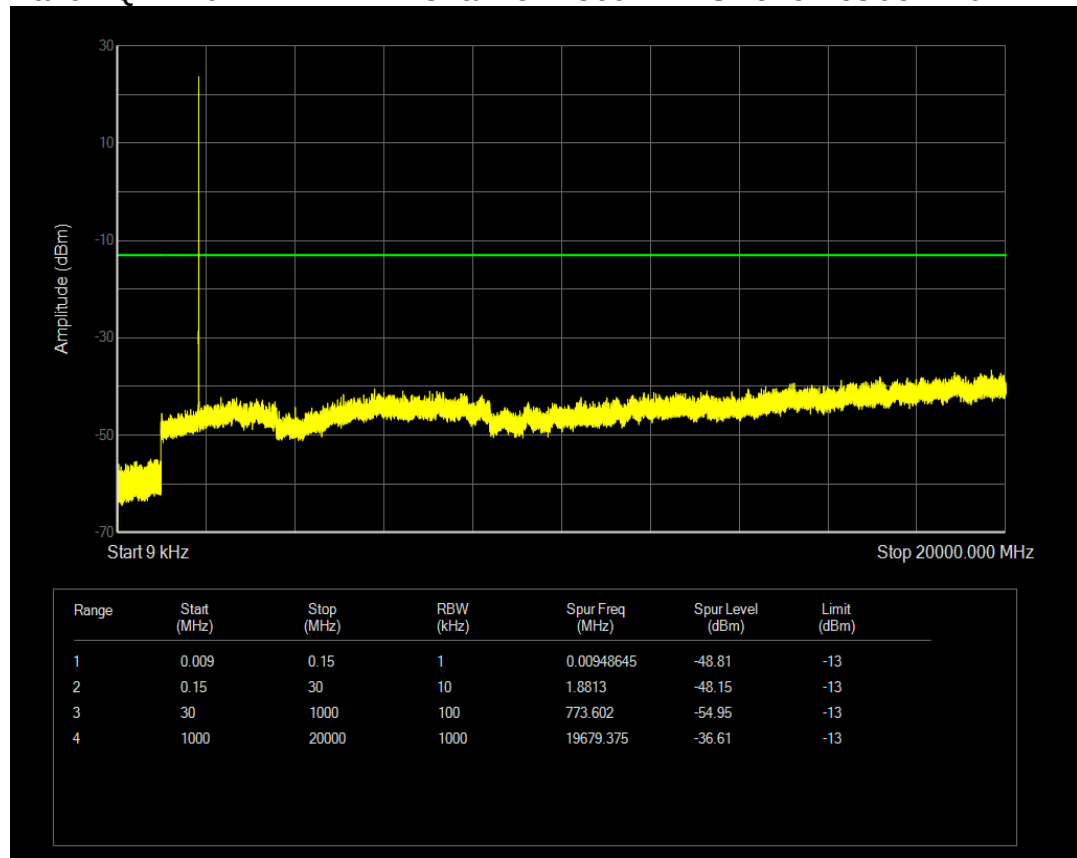
Pass, the table and plot please see annex.

Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

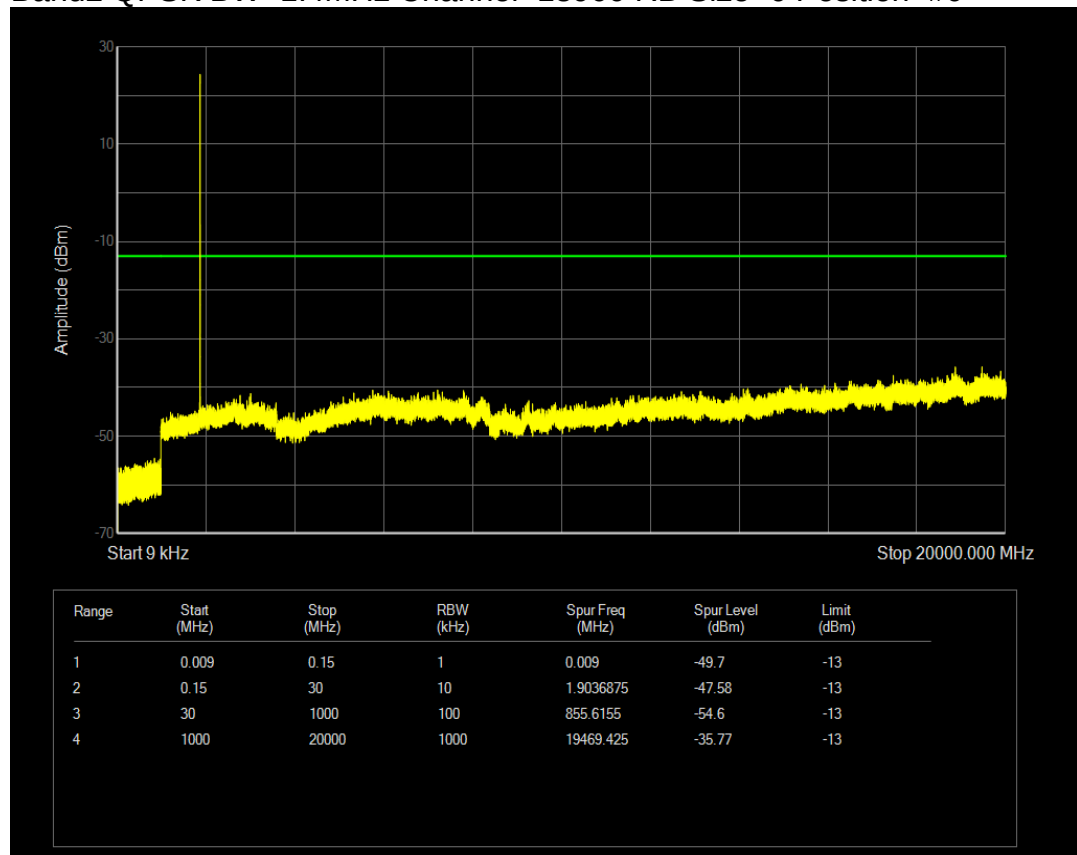




Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=6 Position=#0

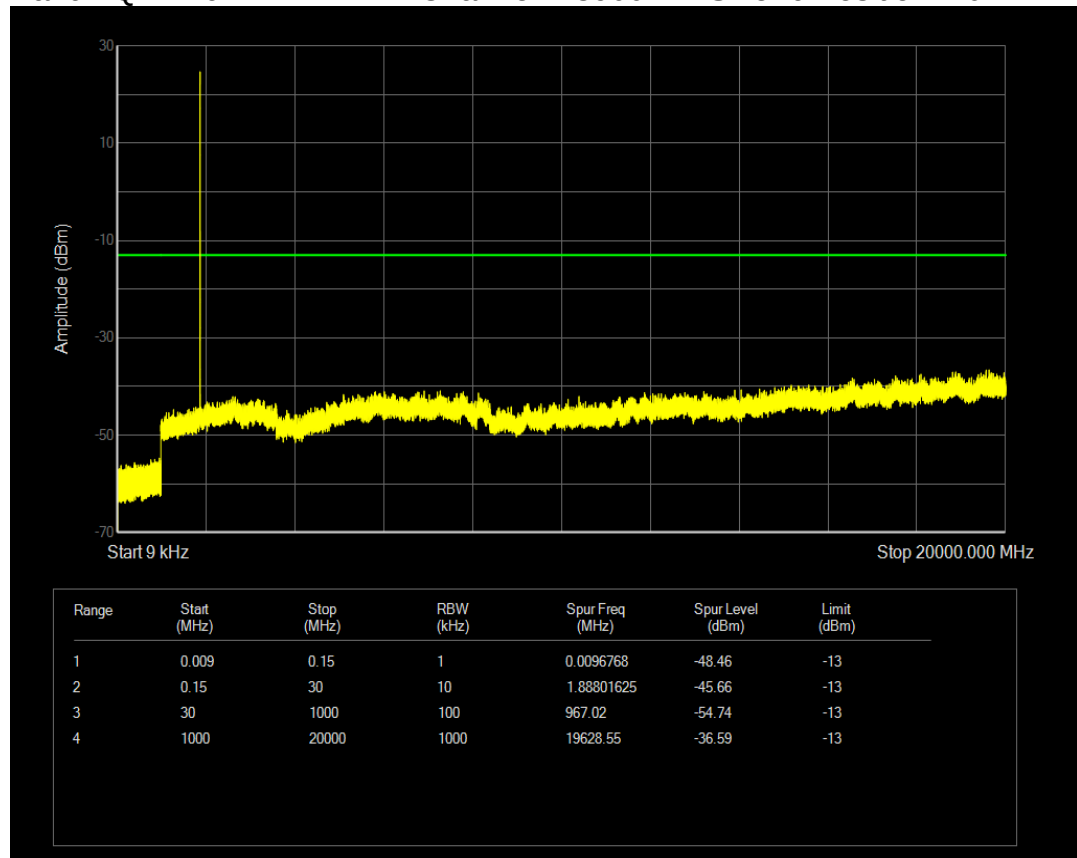


Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0

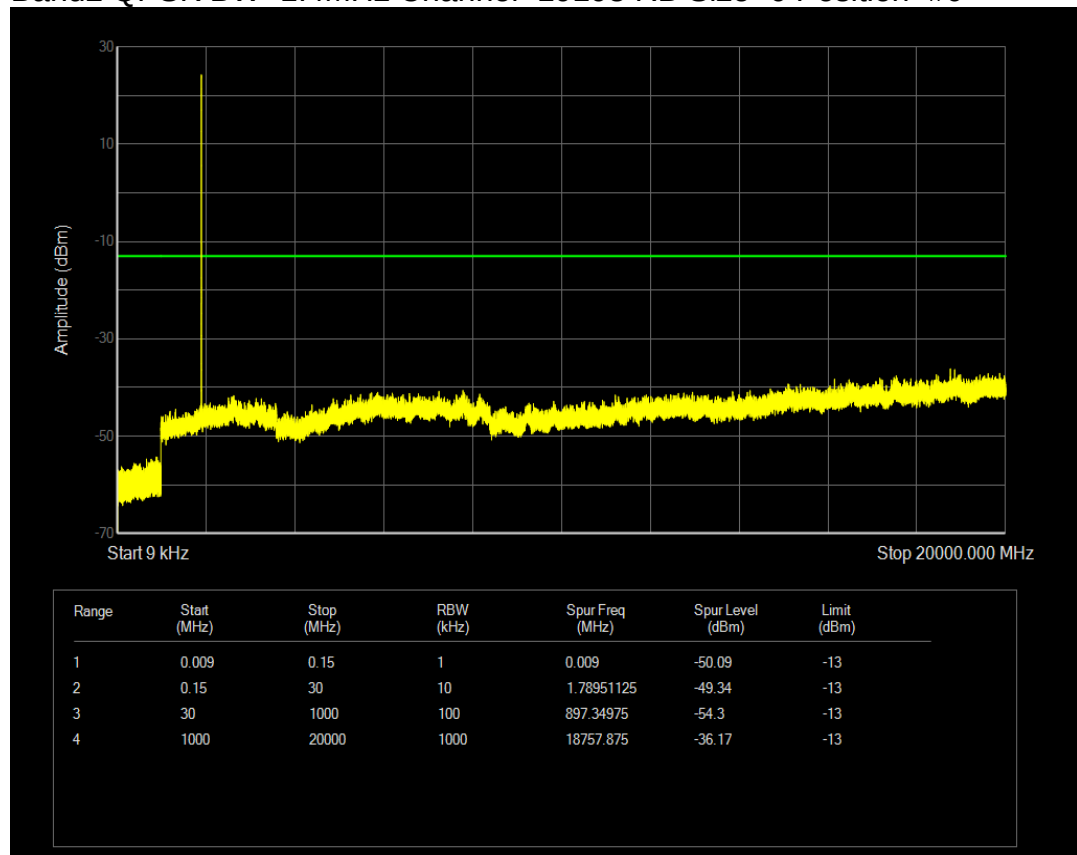




Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=6 Position=#0

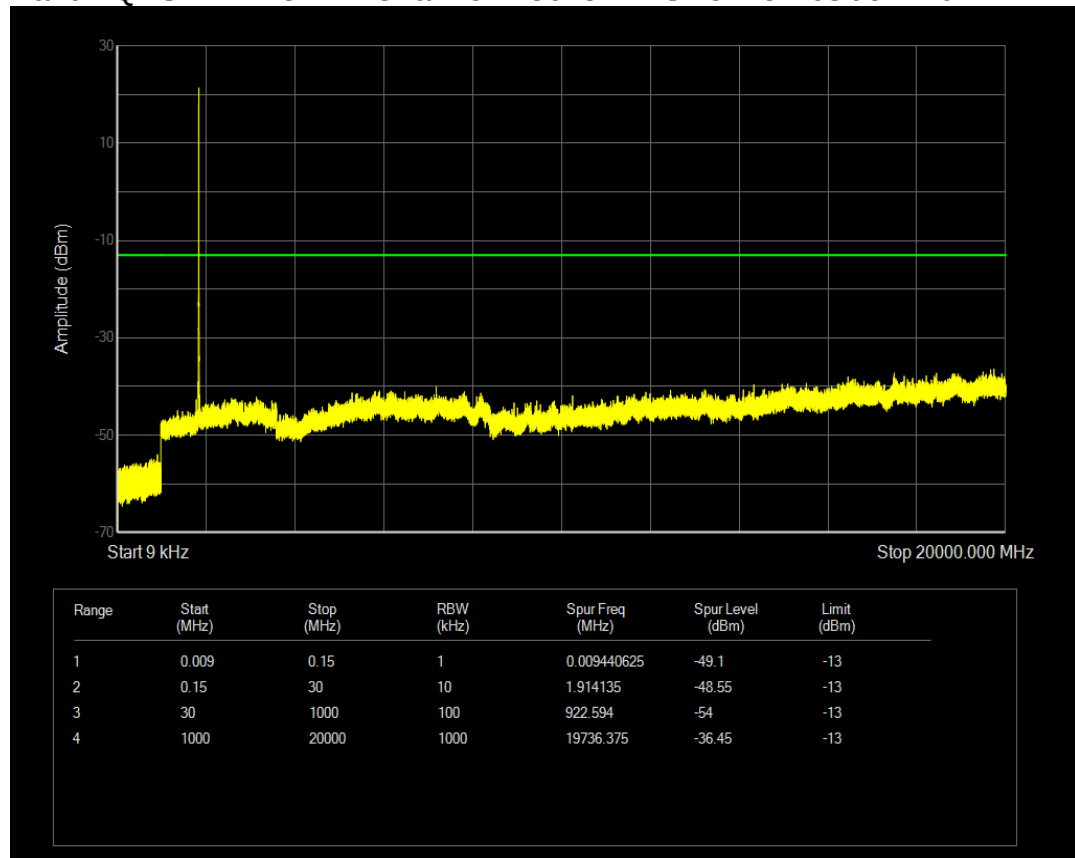


Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

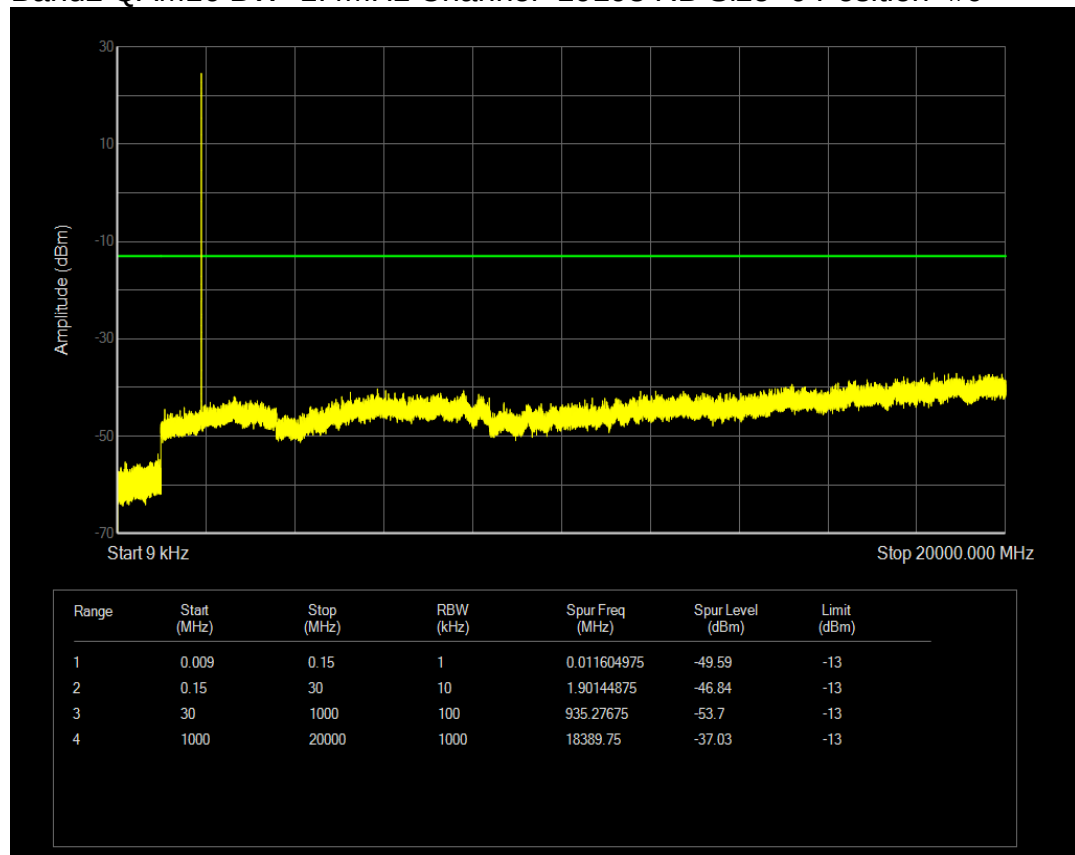




Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0

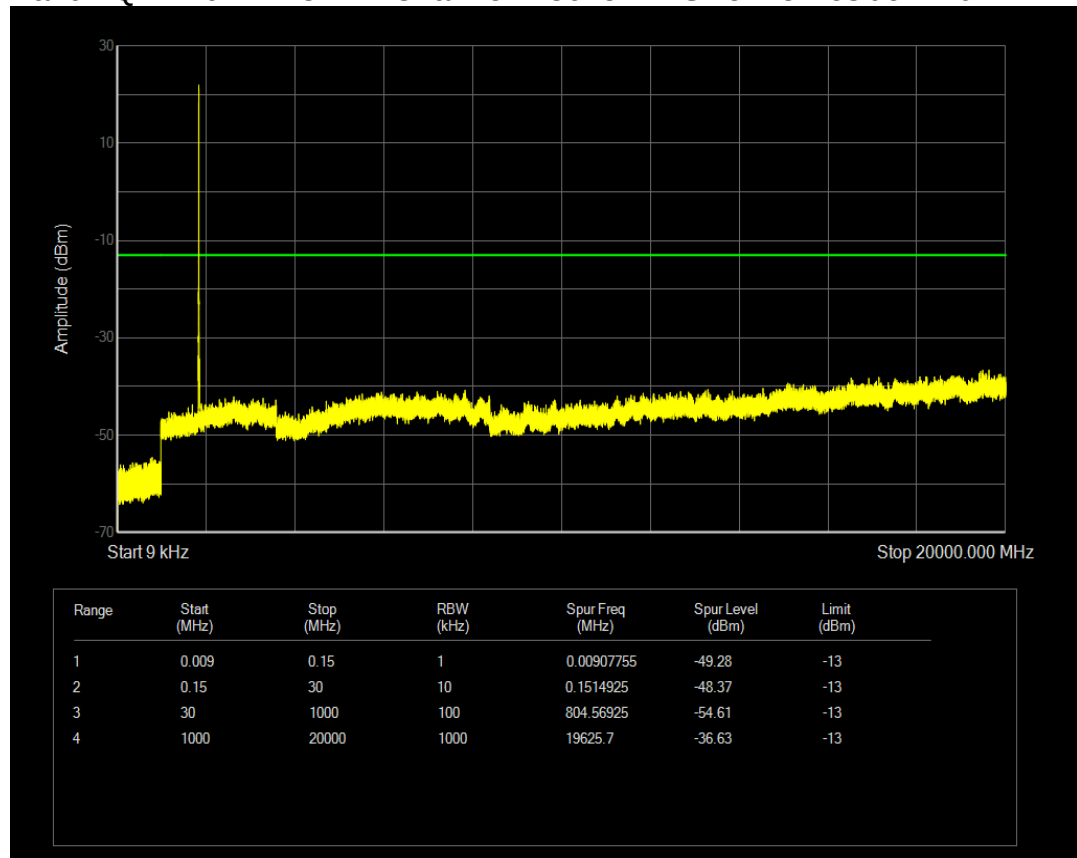


Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=6 Position=#0

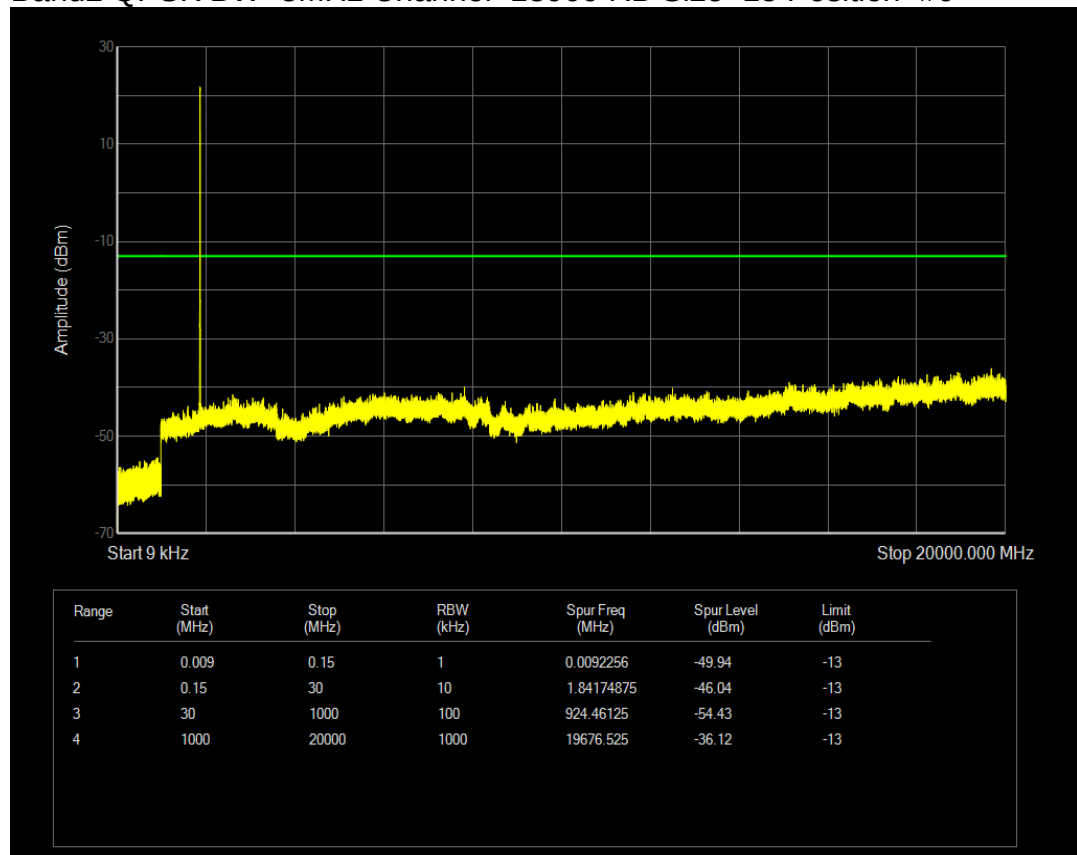




Band2 QAM16 BW=3MHz Channel=18615 RB Size=15 Position=#0

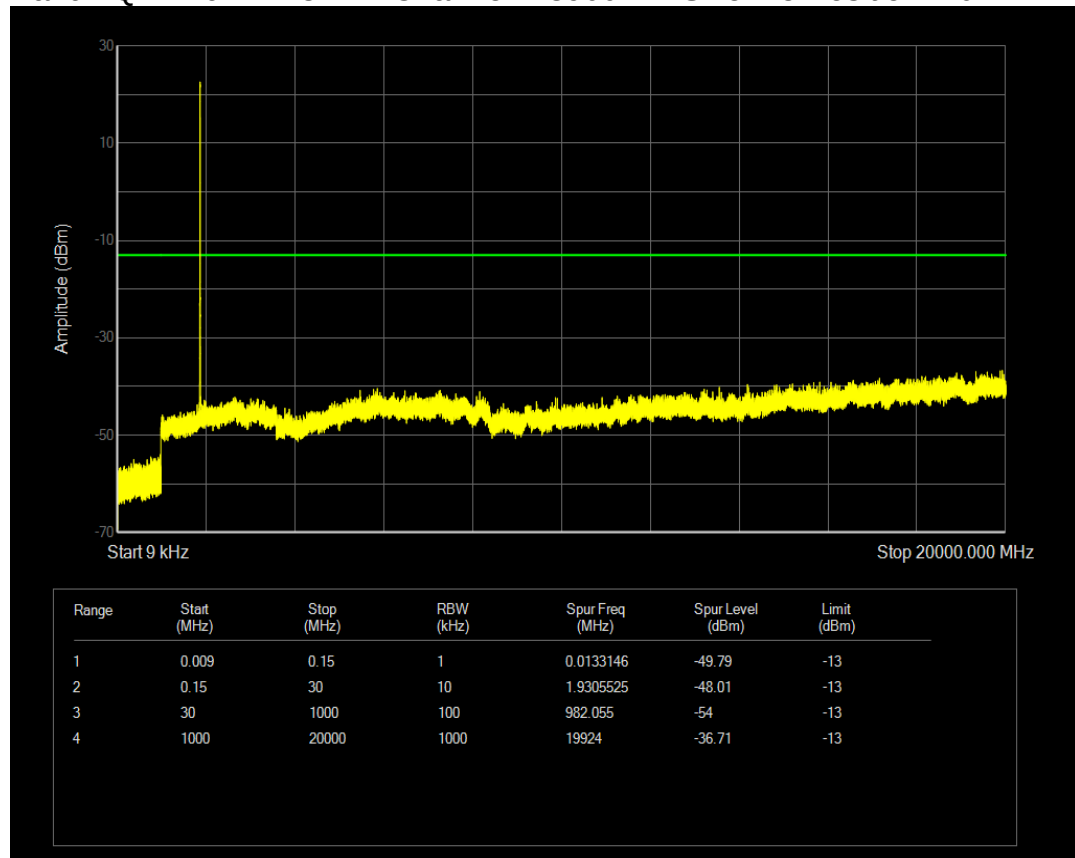


Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0

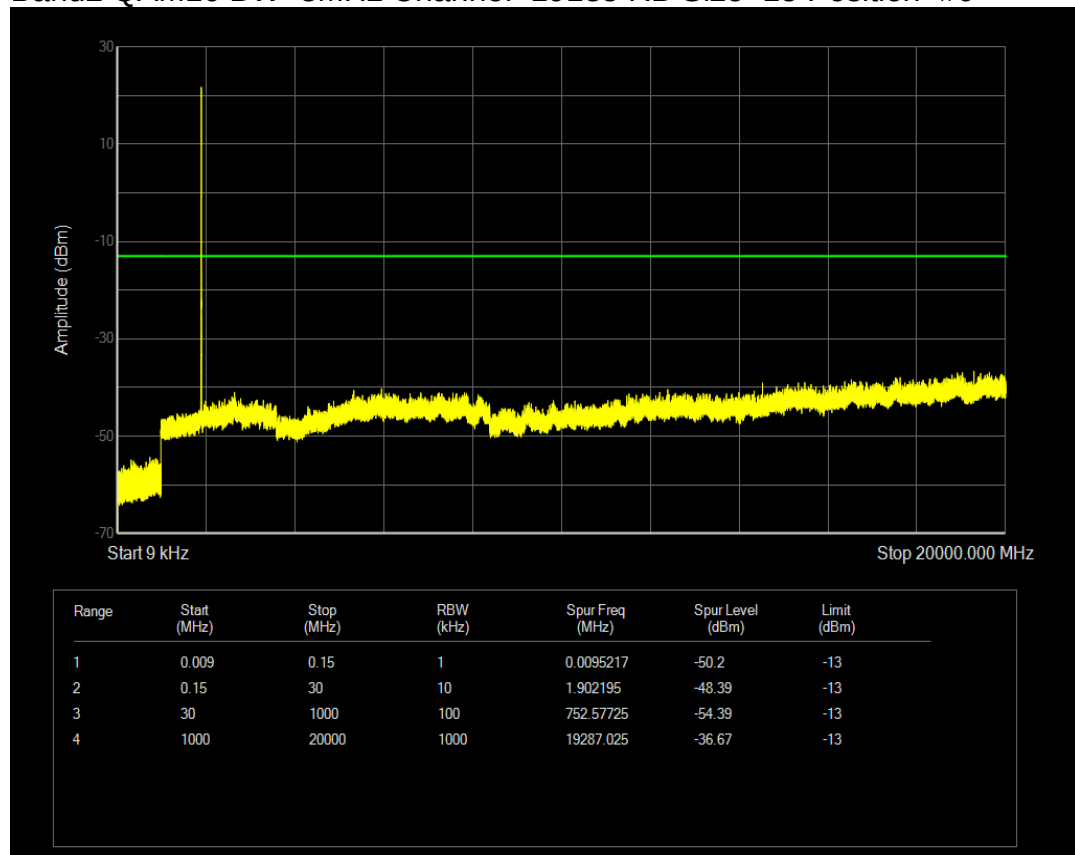




Band2 QAM16 BW=3MHz Channel=18900 RB Size=15 Position=#0

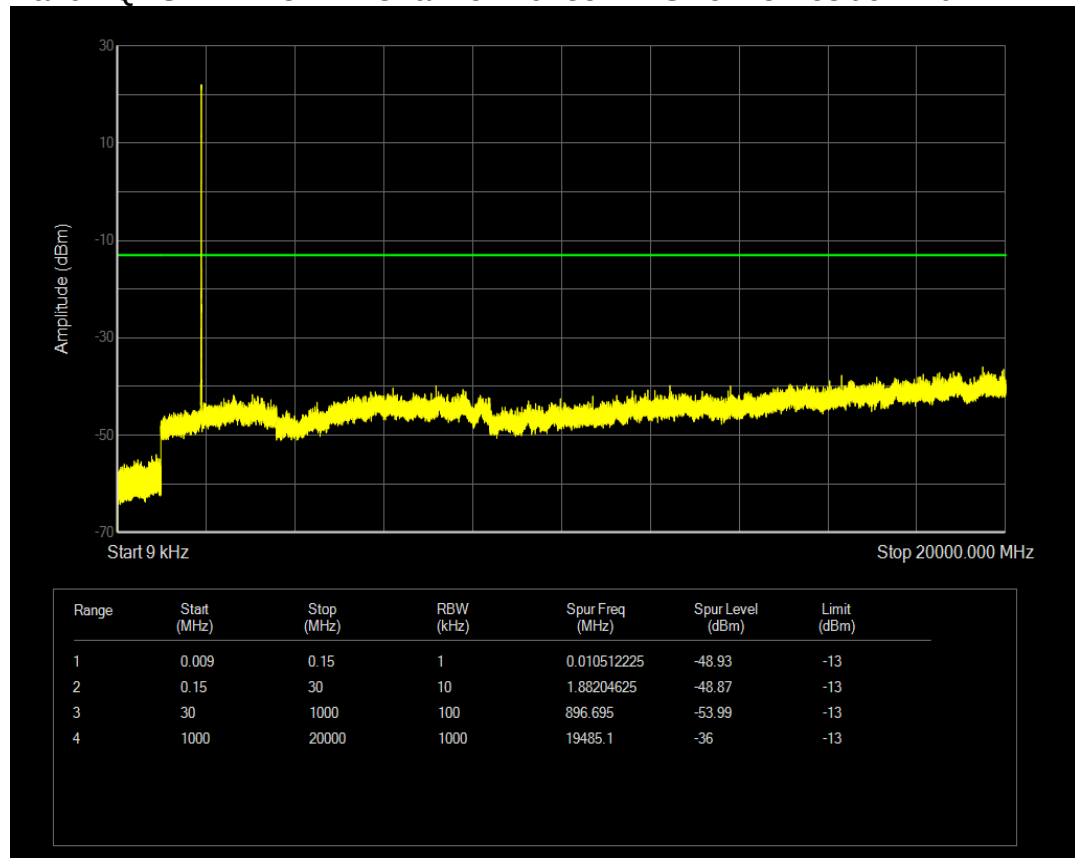


Band2 QAM16 BW=3MHz Channel=19185 RB Size=15 Position=#0

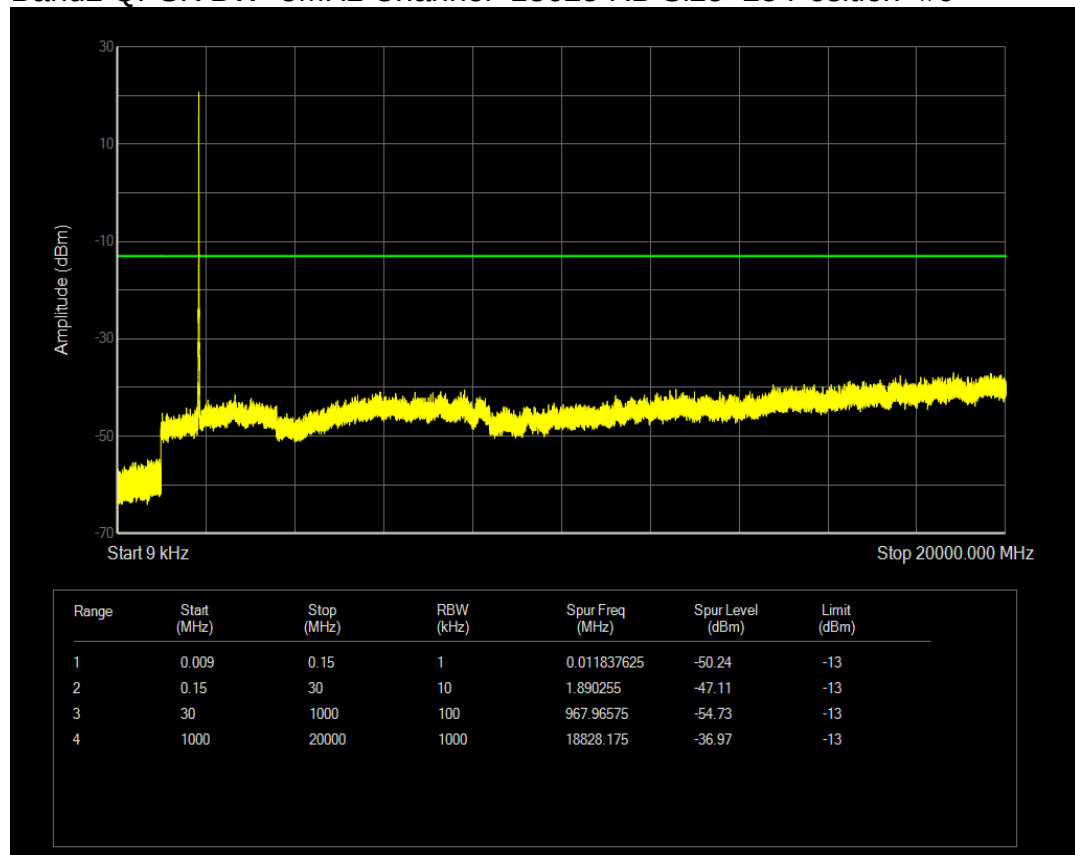




Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0

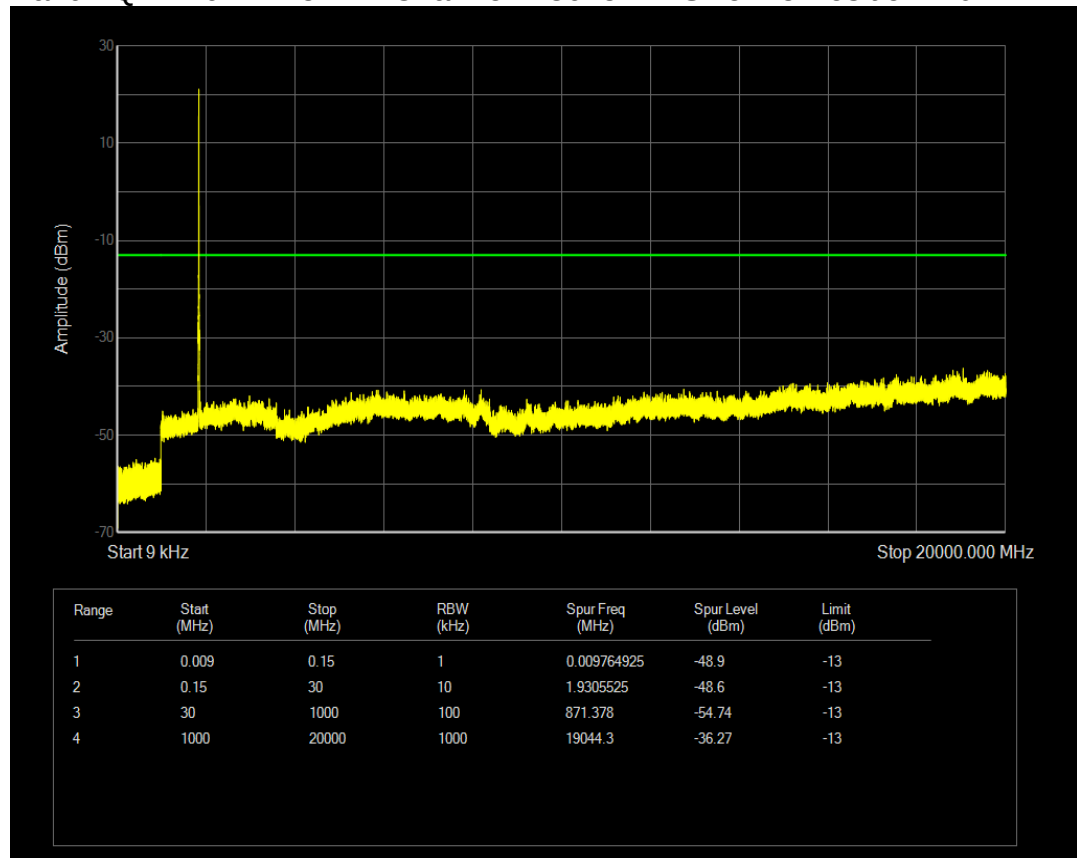


Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

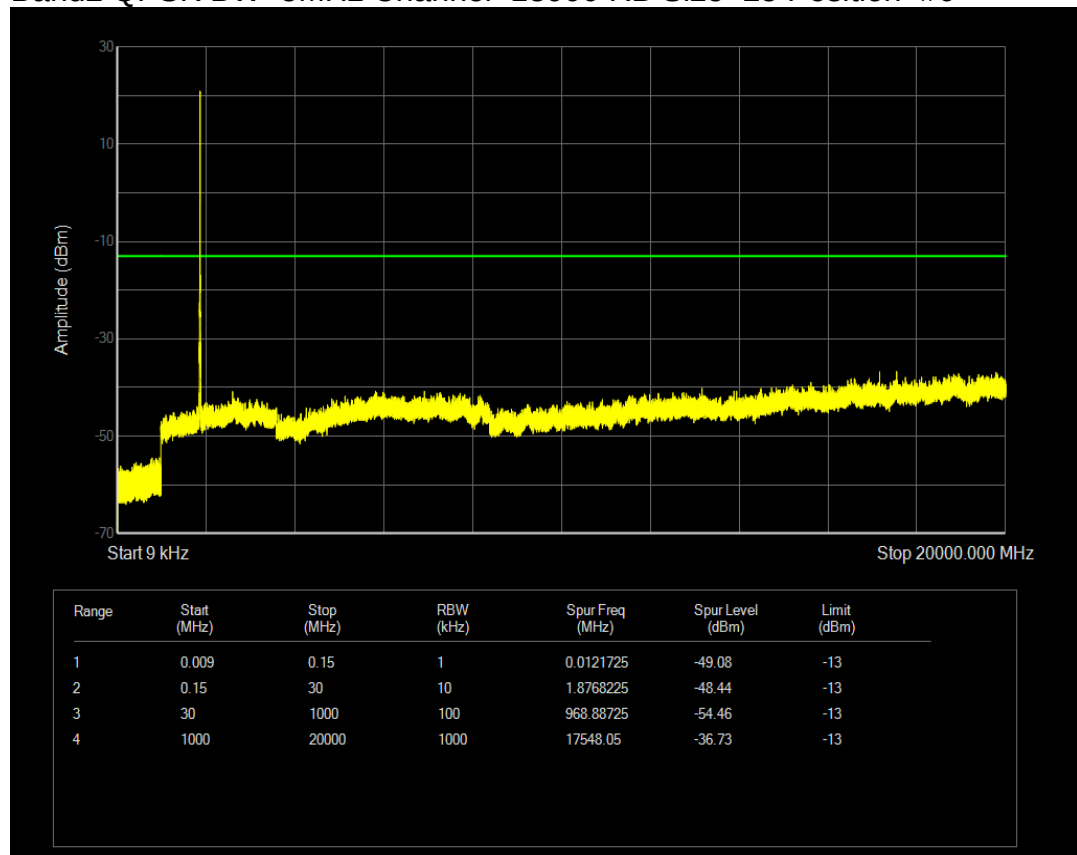




Band2 QAM16 BW=5MHz Channel=18625 RB Size=25 Position=#0

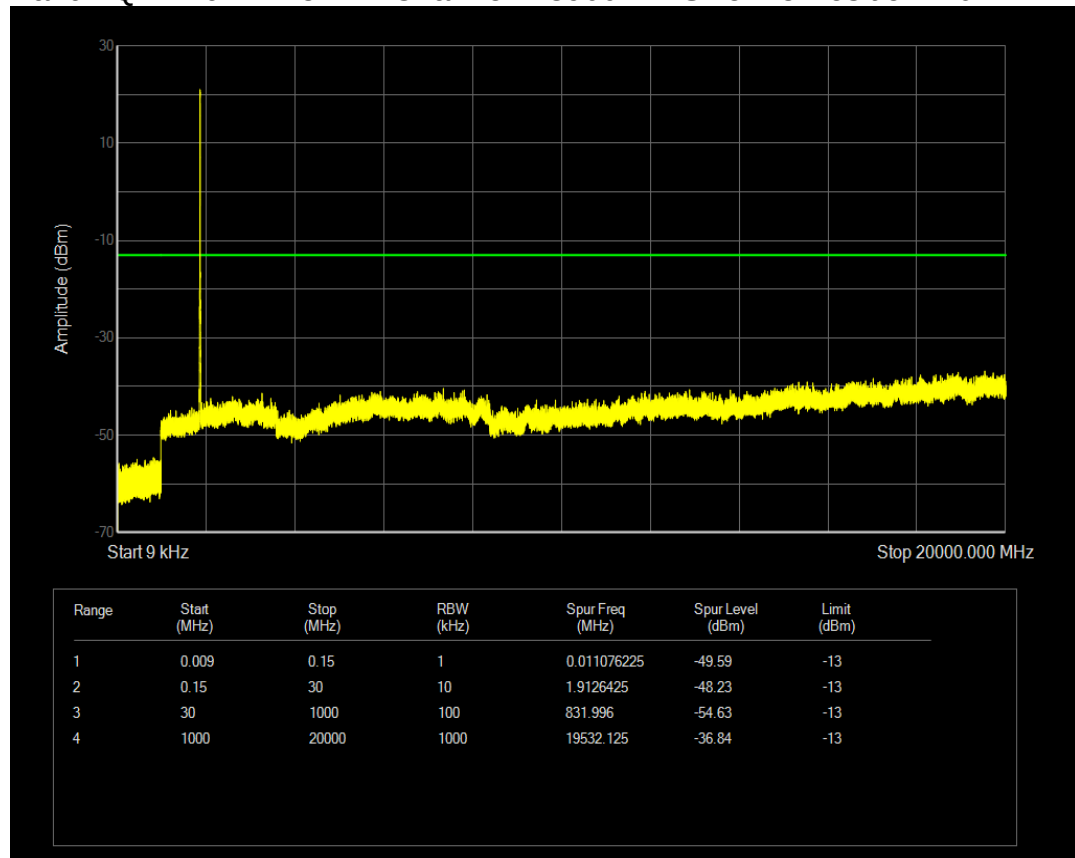


Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0

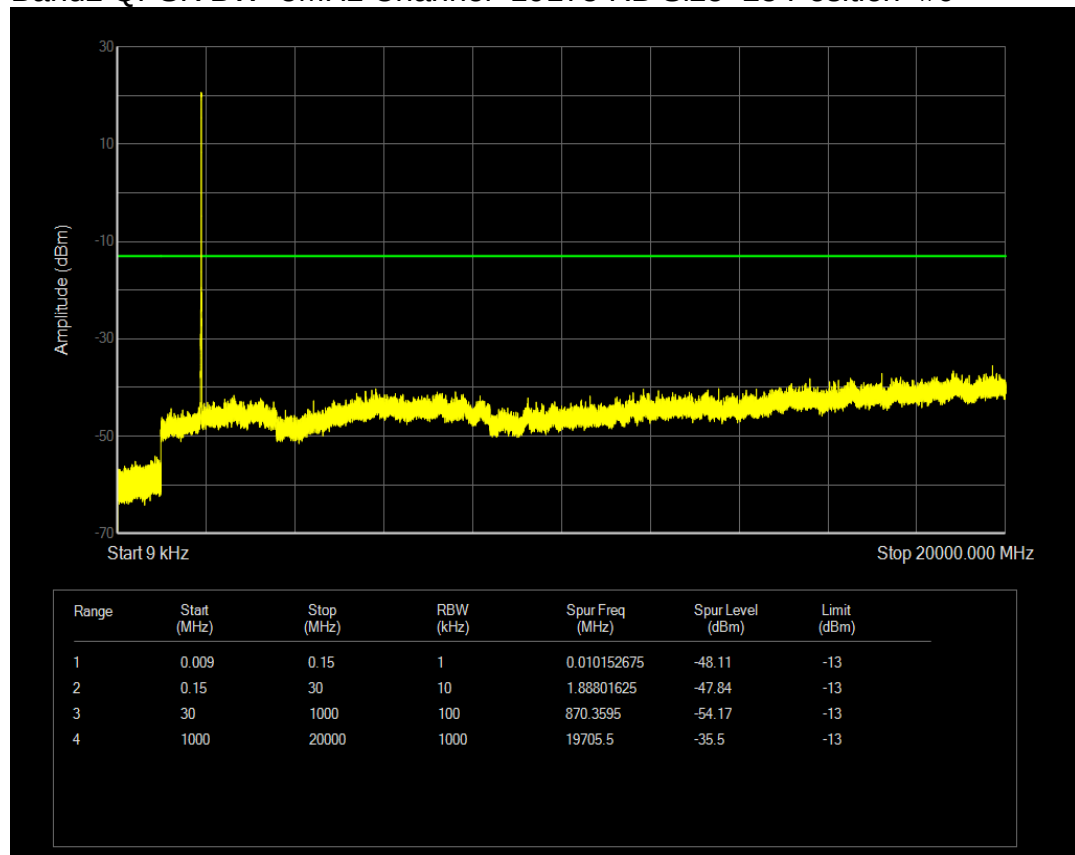




Band2 QAM16 BW=5MHz Channel=18900 RB Size=25 Position=#0

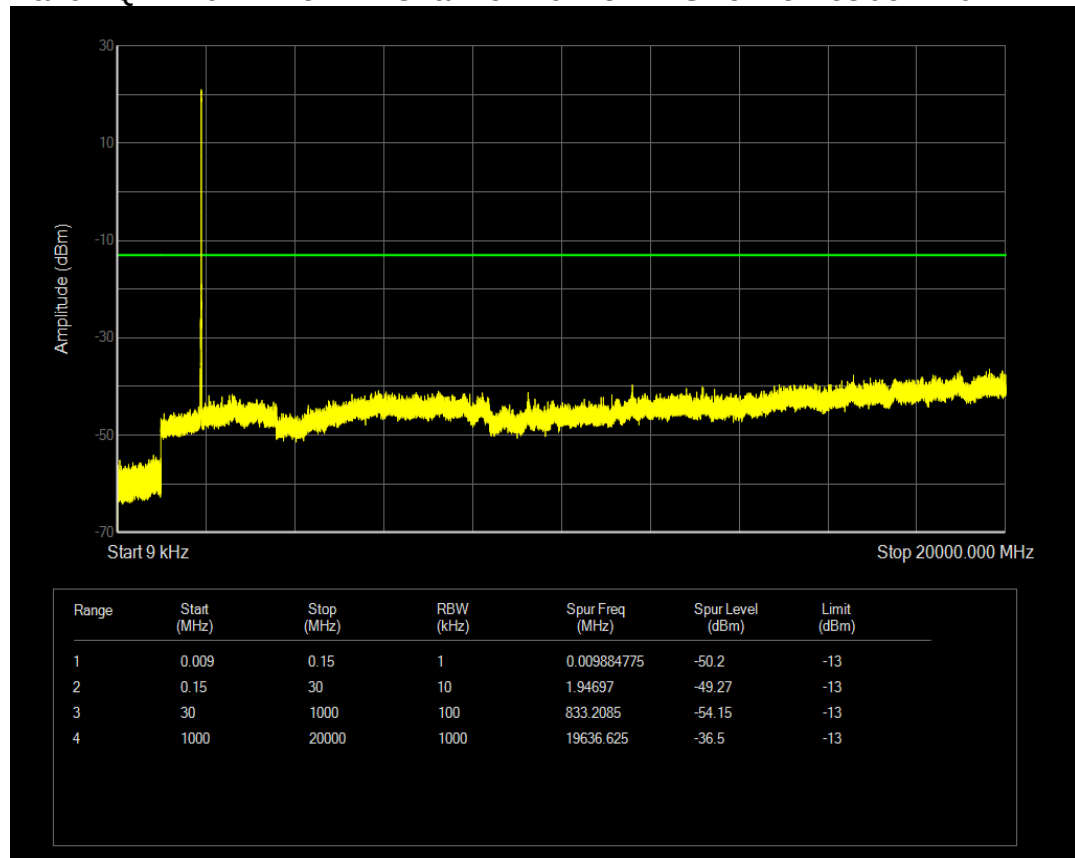


Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0

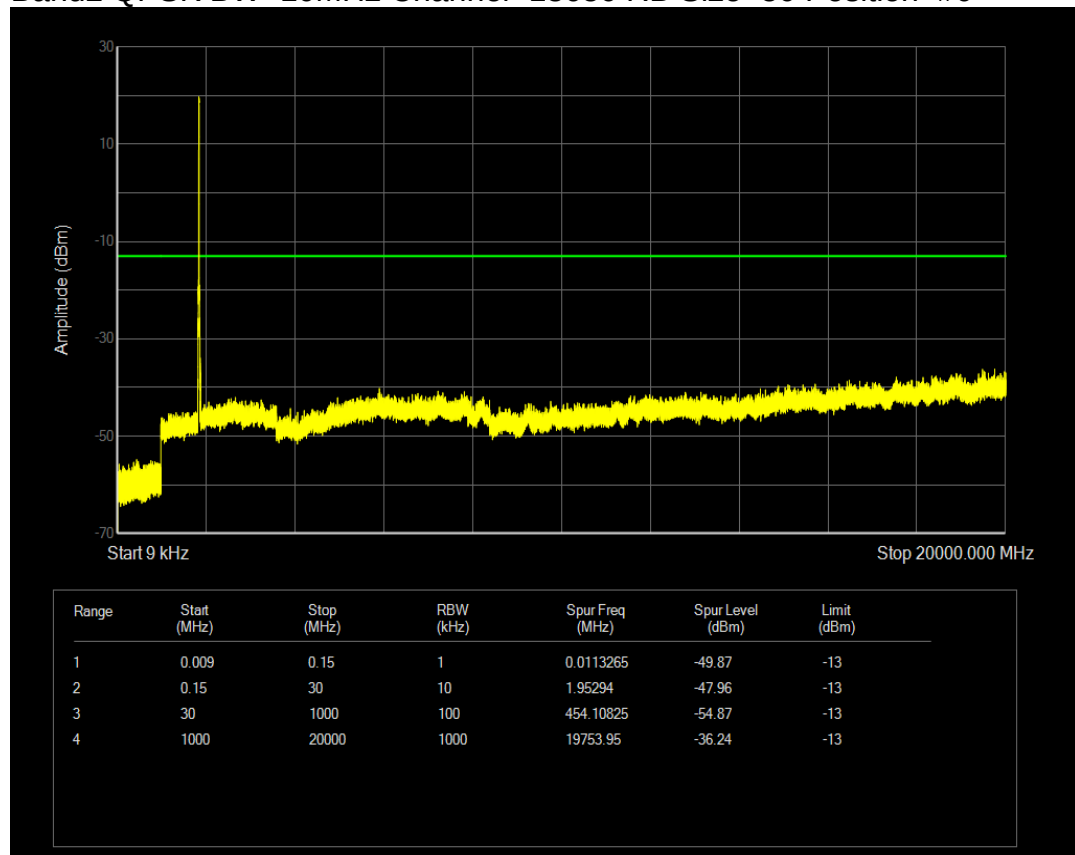




Band2 QAM16 BW=5MHz Channel=19175 RB Size=25 Position=#0

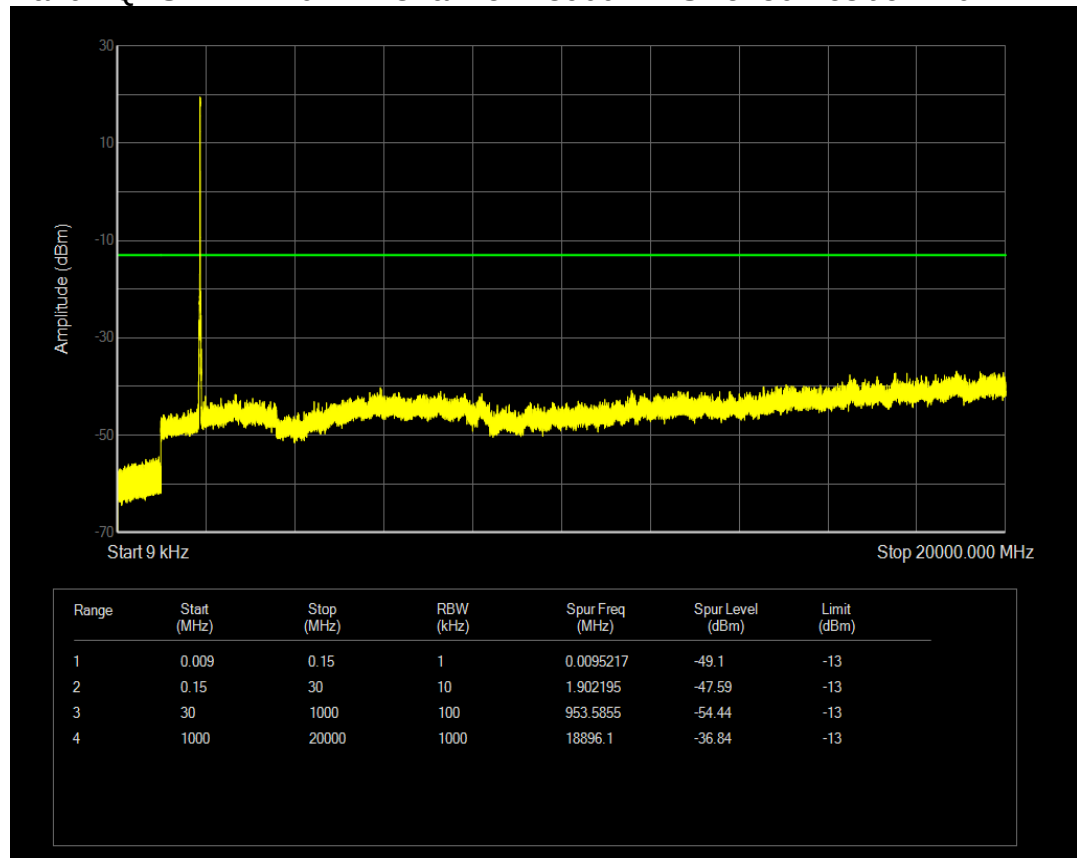


Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0

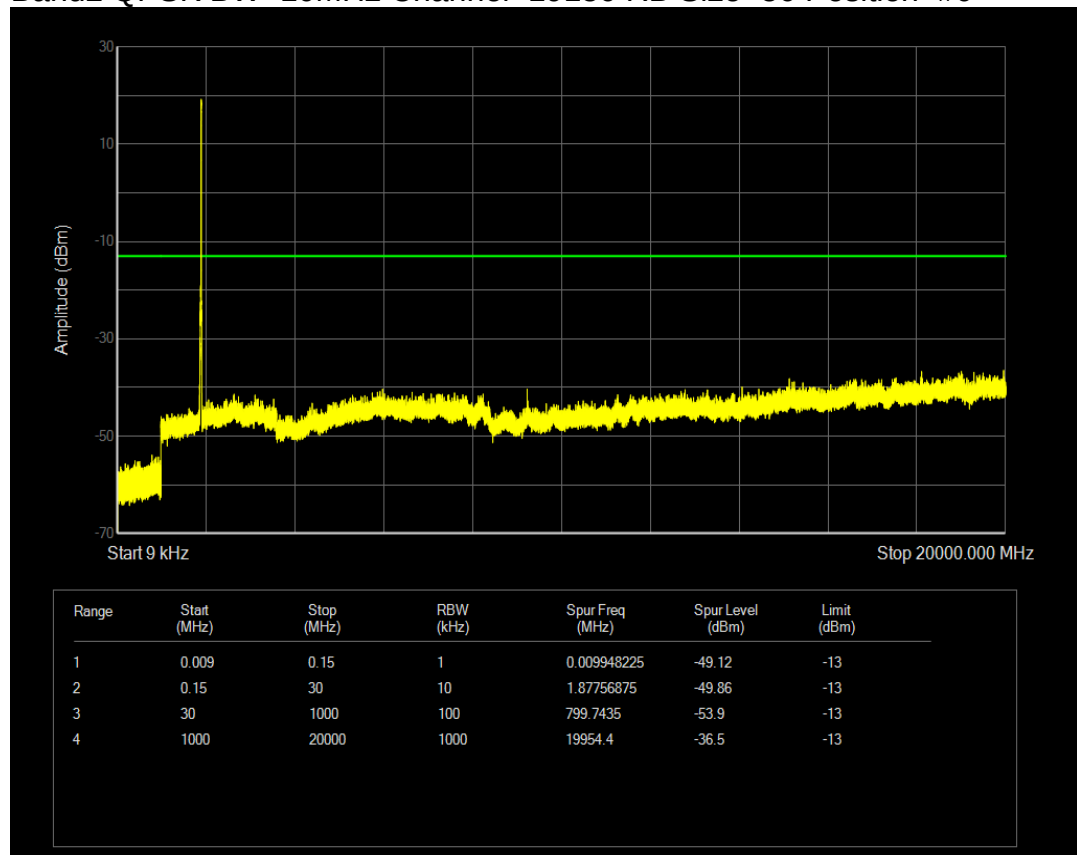




Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0

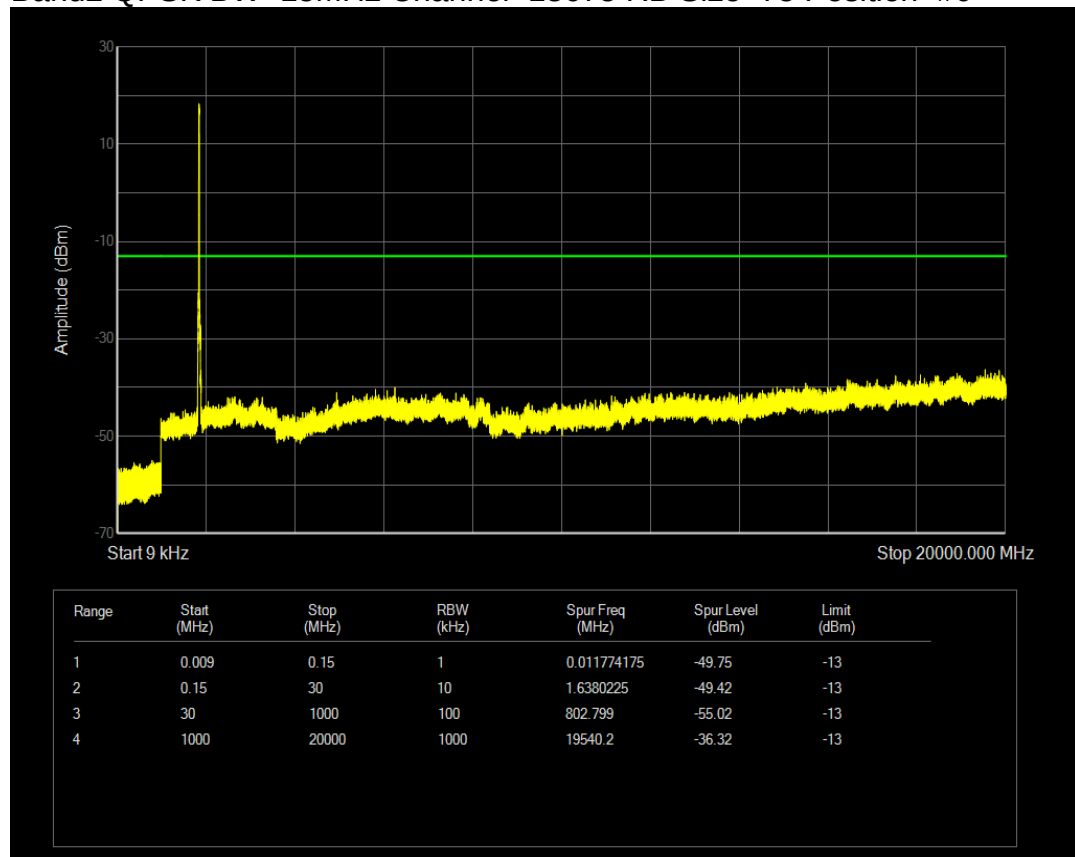


Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0

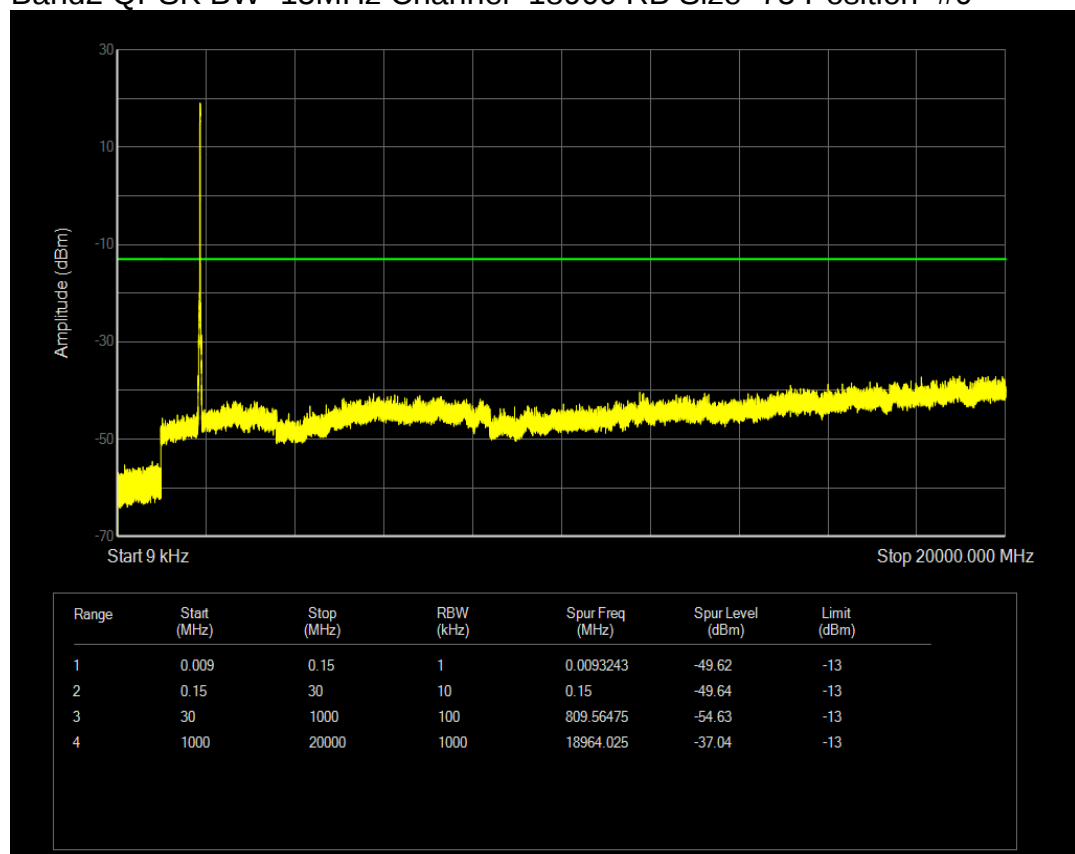




Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0

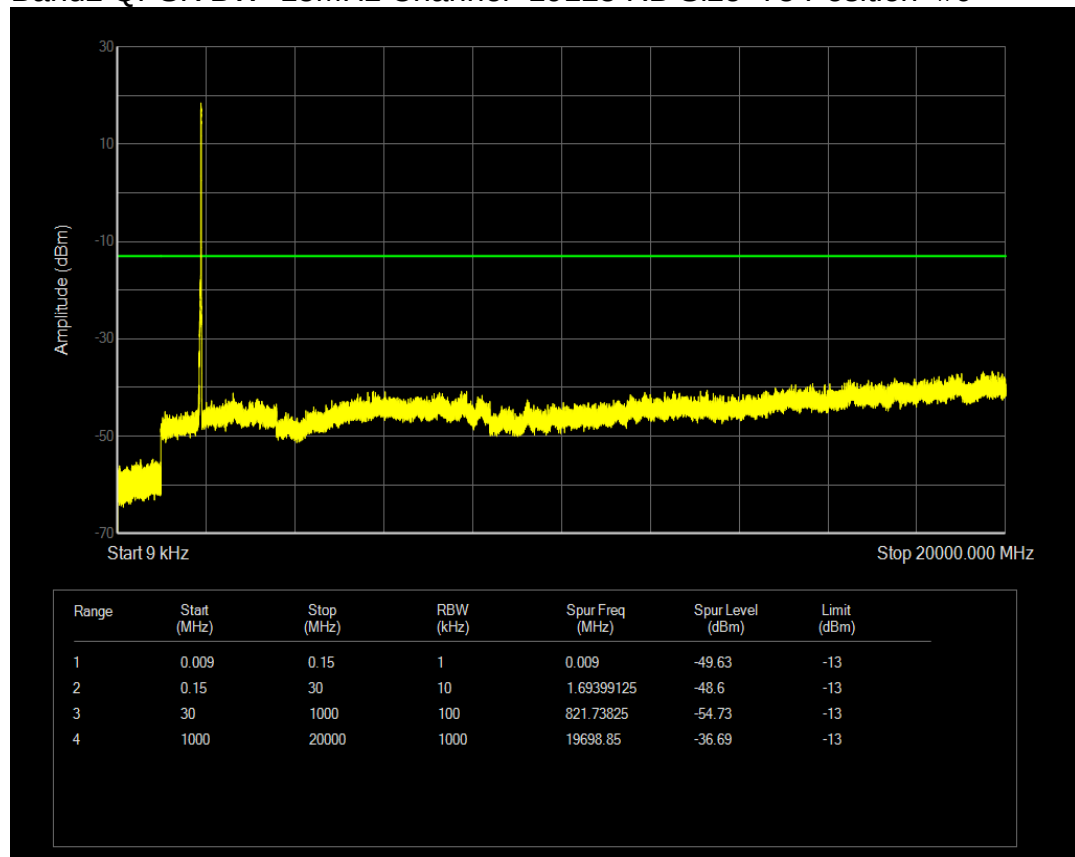


Band2 QPSK BW=15MHz Channel=18900 RB Size=75 Position=#0

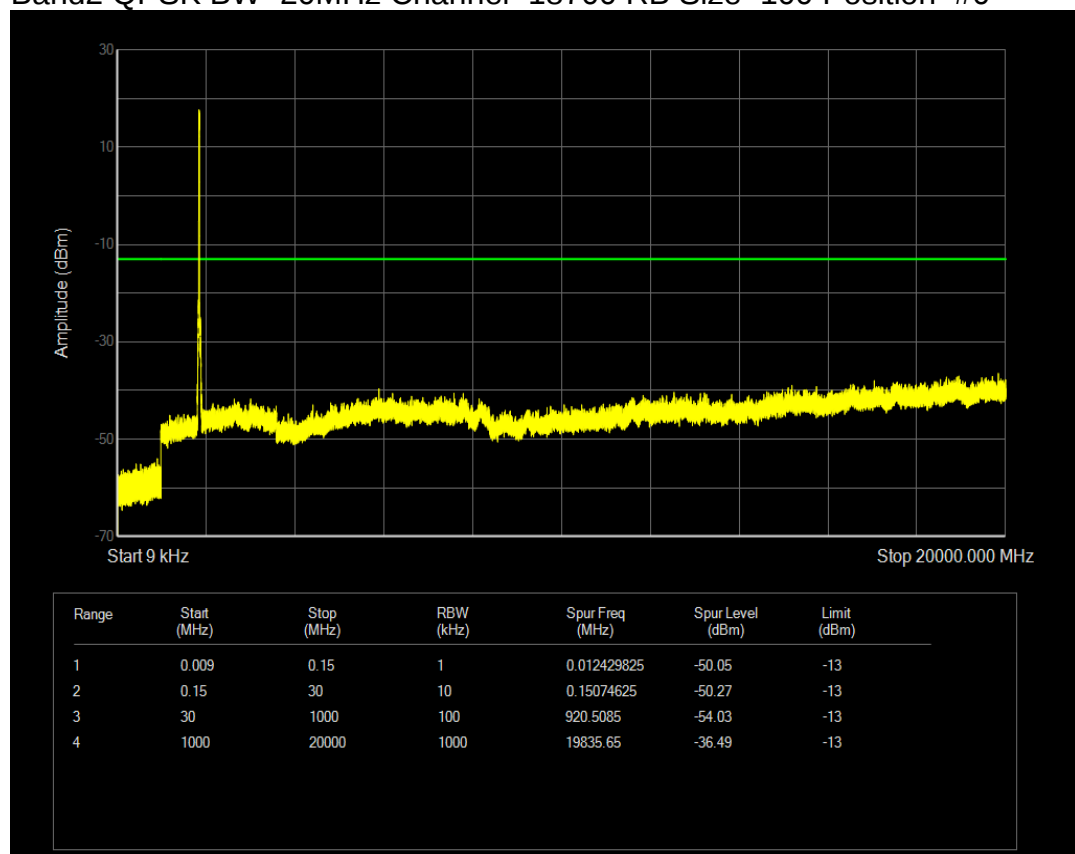




Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0

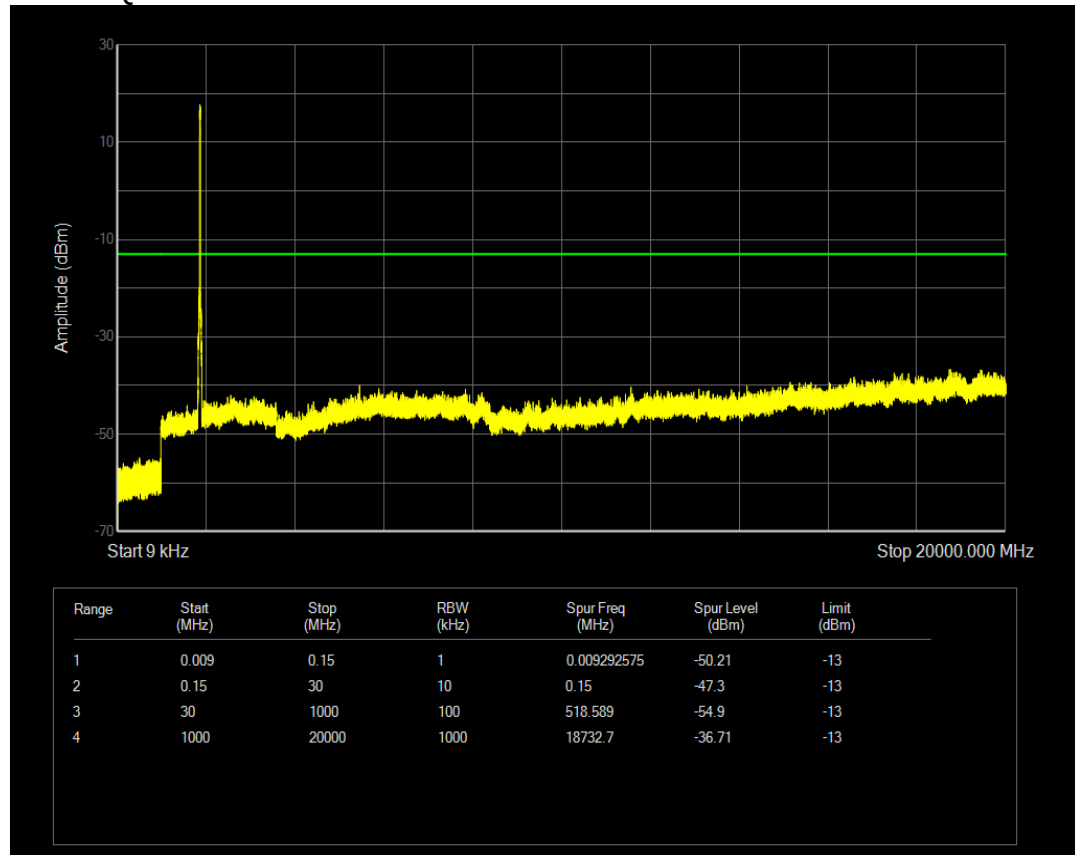


Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0

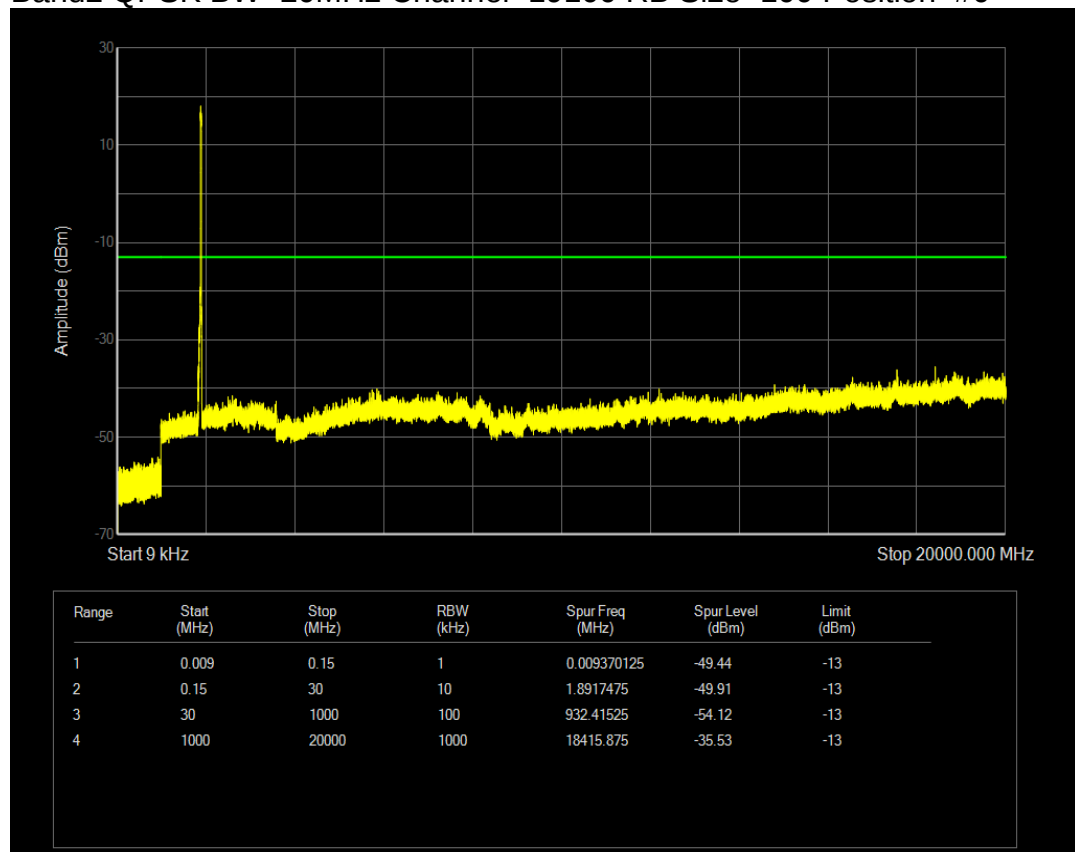




Band2 QPSK BW=20MHz Channel=18900 RB Size=100 Position=#0



Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0



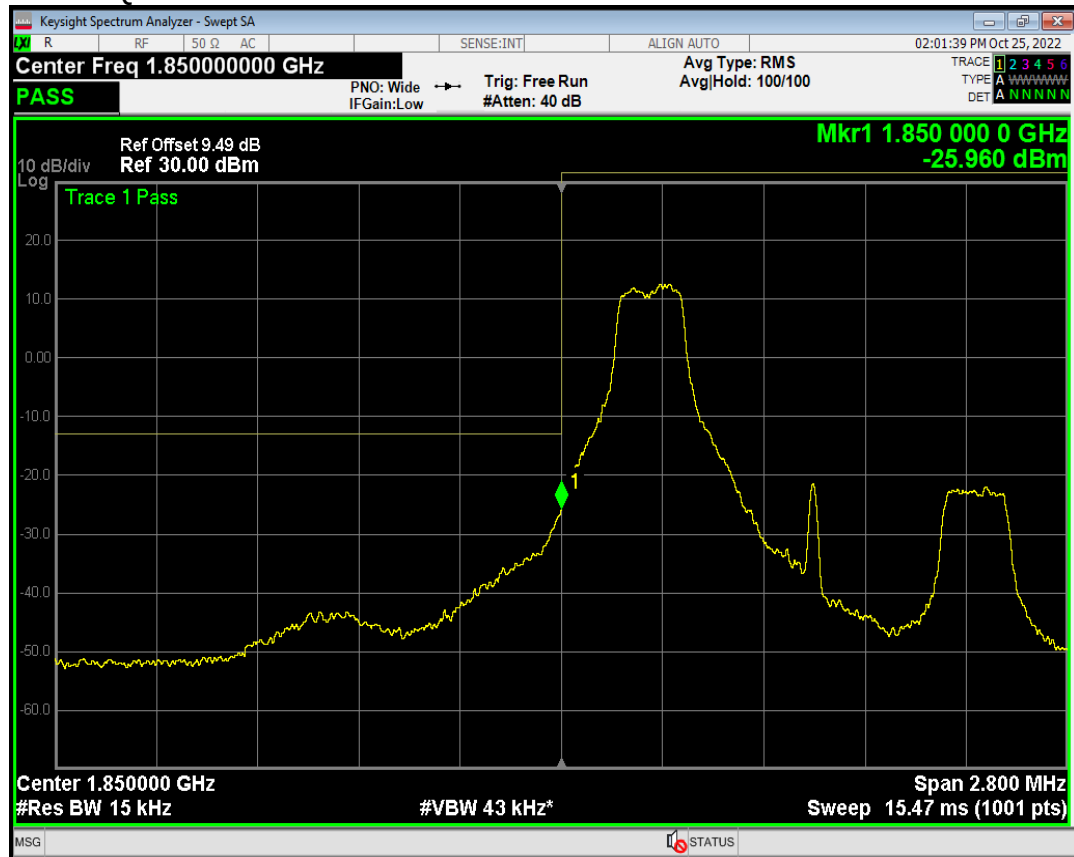


1.3. Conducted Out of Band Emissions

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.

Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#0

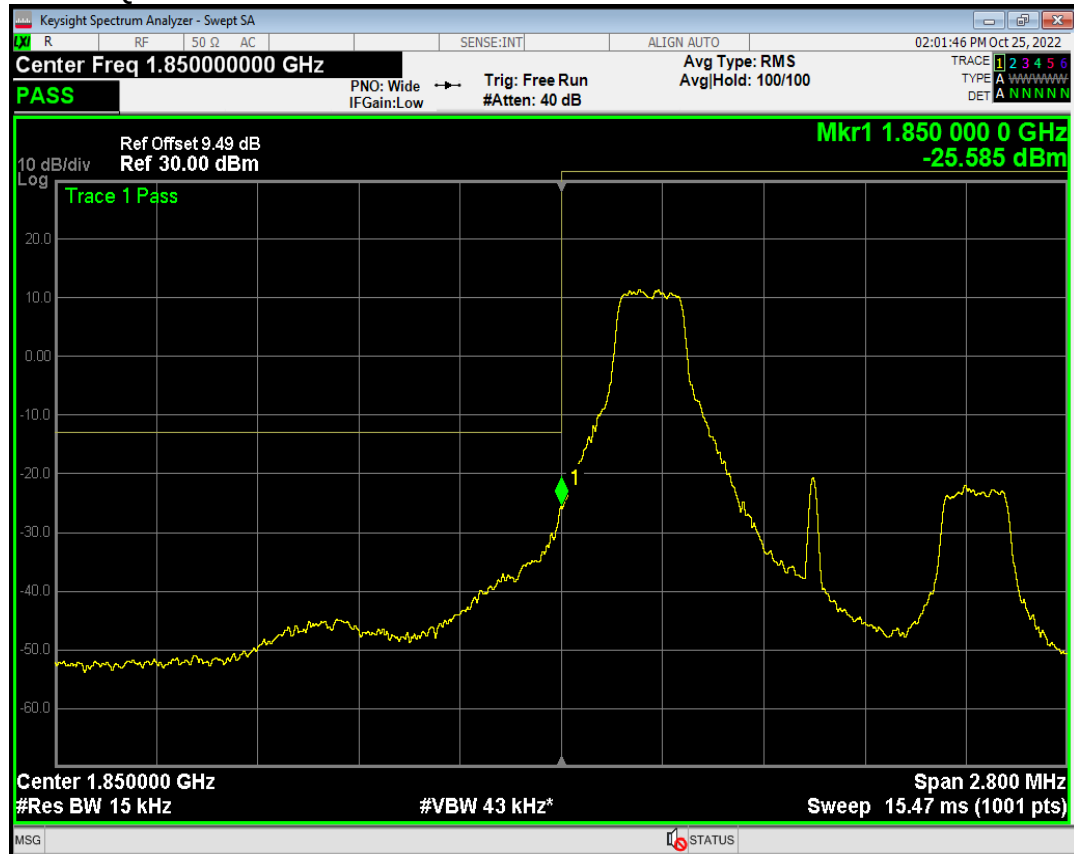




Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#Max

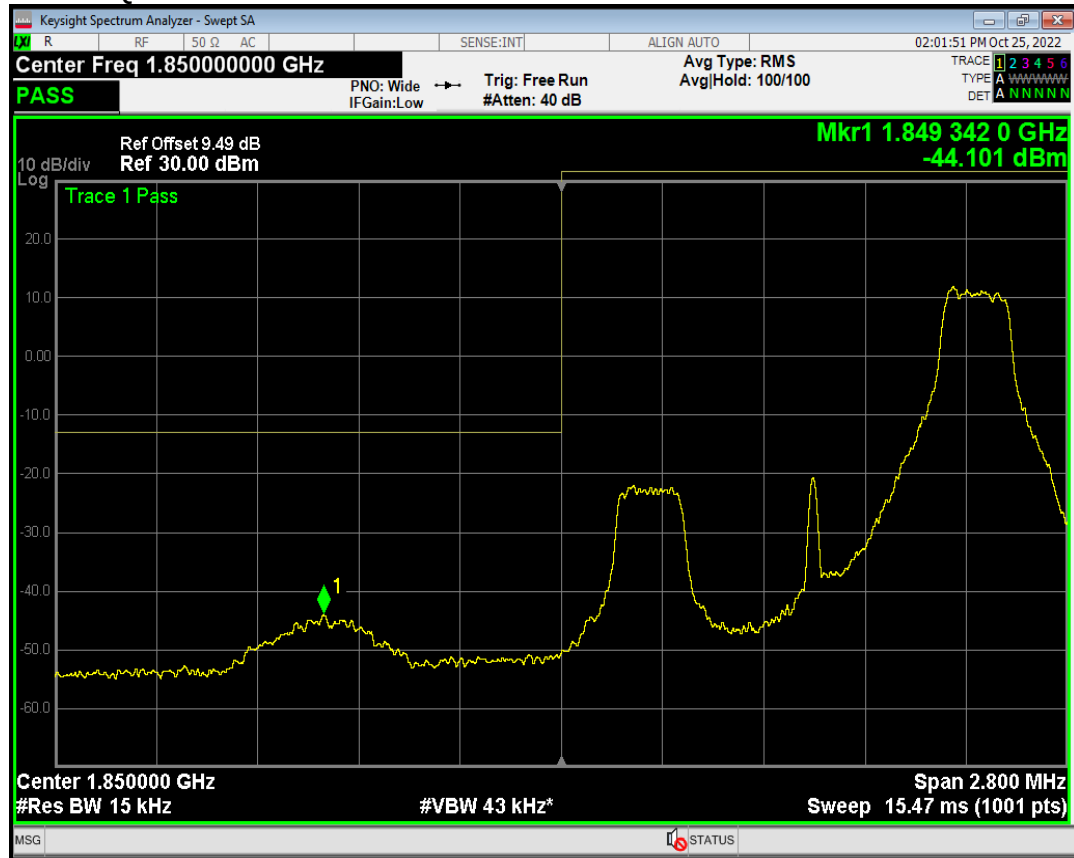


Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=1 Position=#0





Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=1 Position=#Max



Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0





Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=1 Position=#0

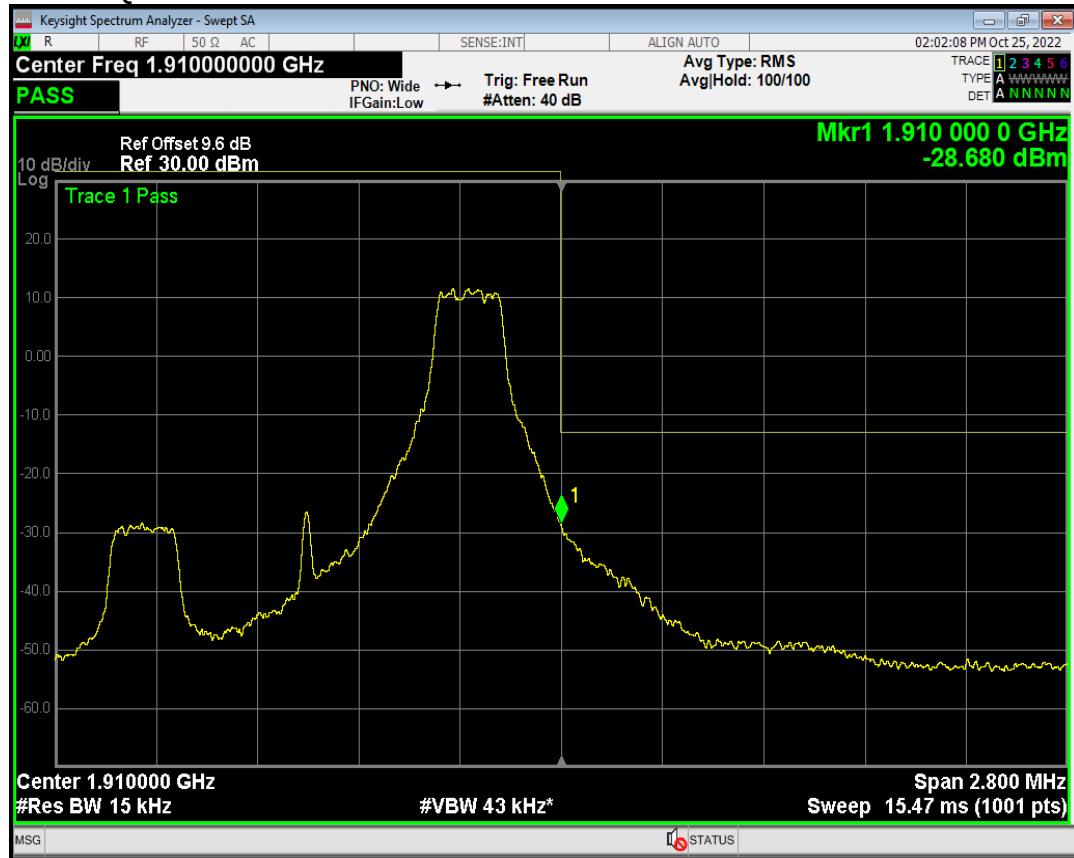


Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#Max

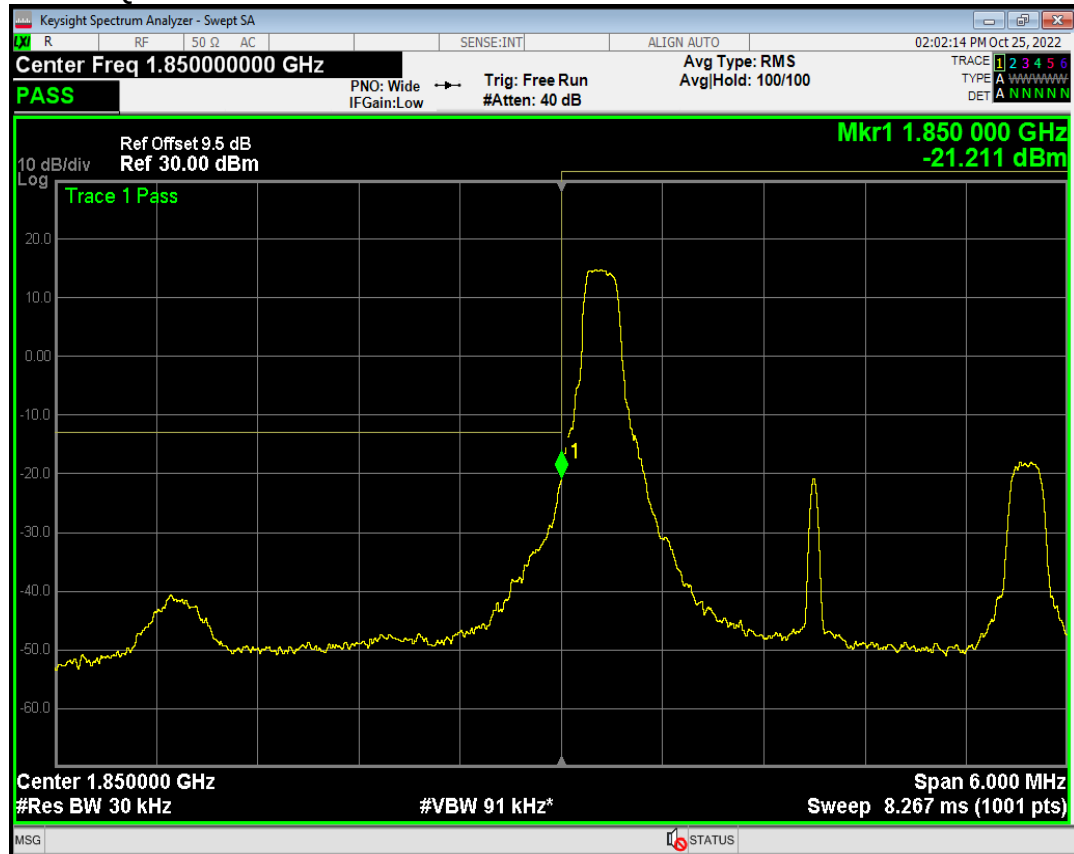




Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=1 Position=#Max

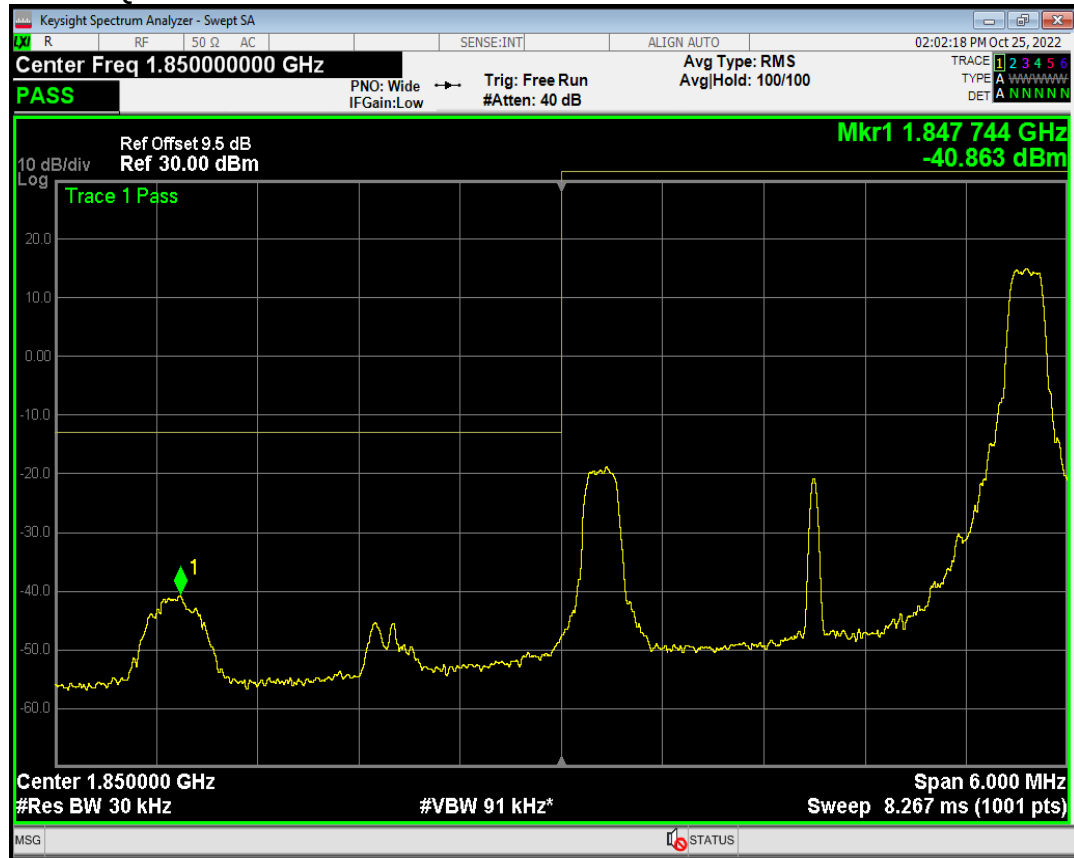


Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0

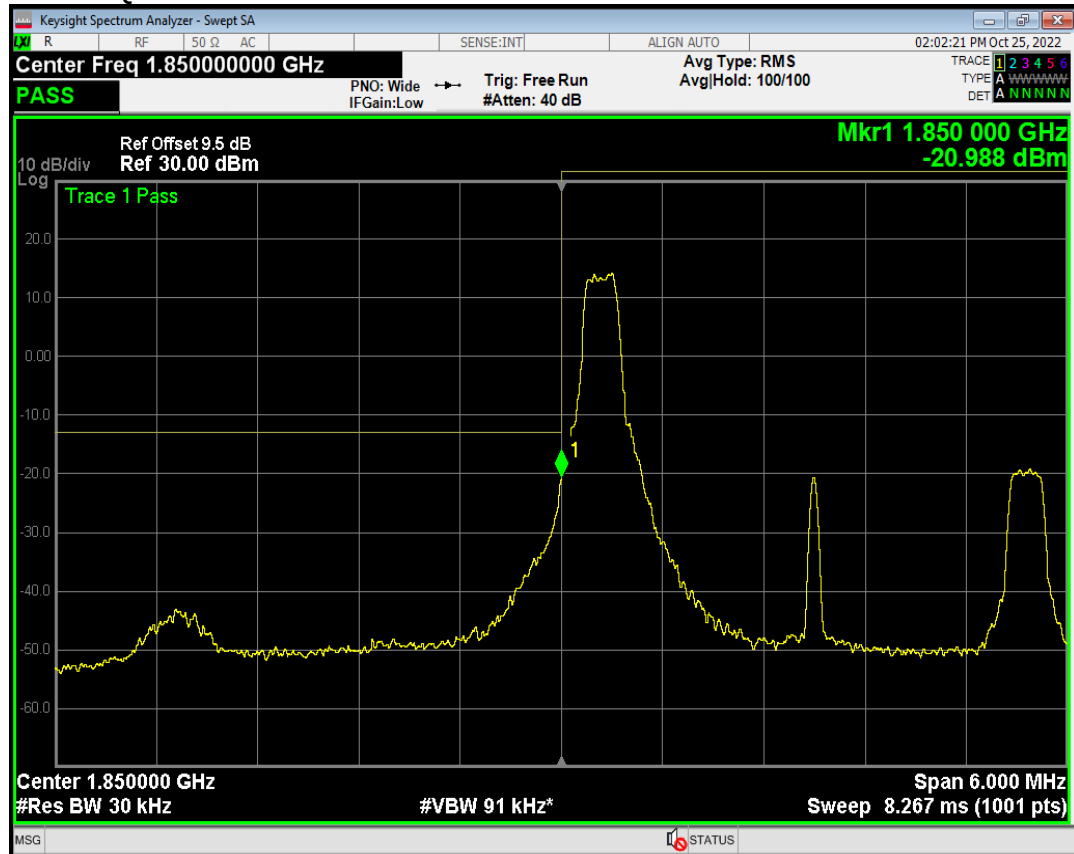




Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#Max

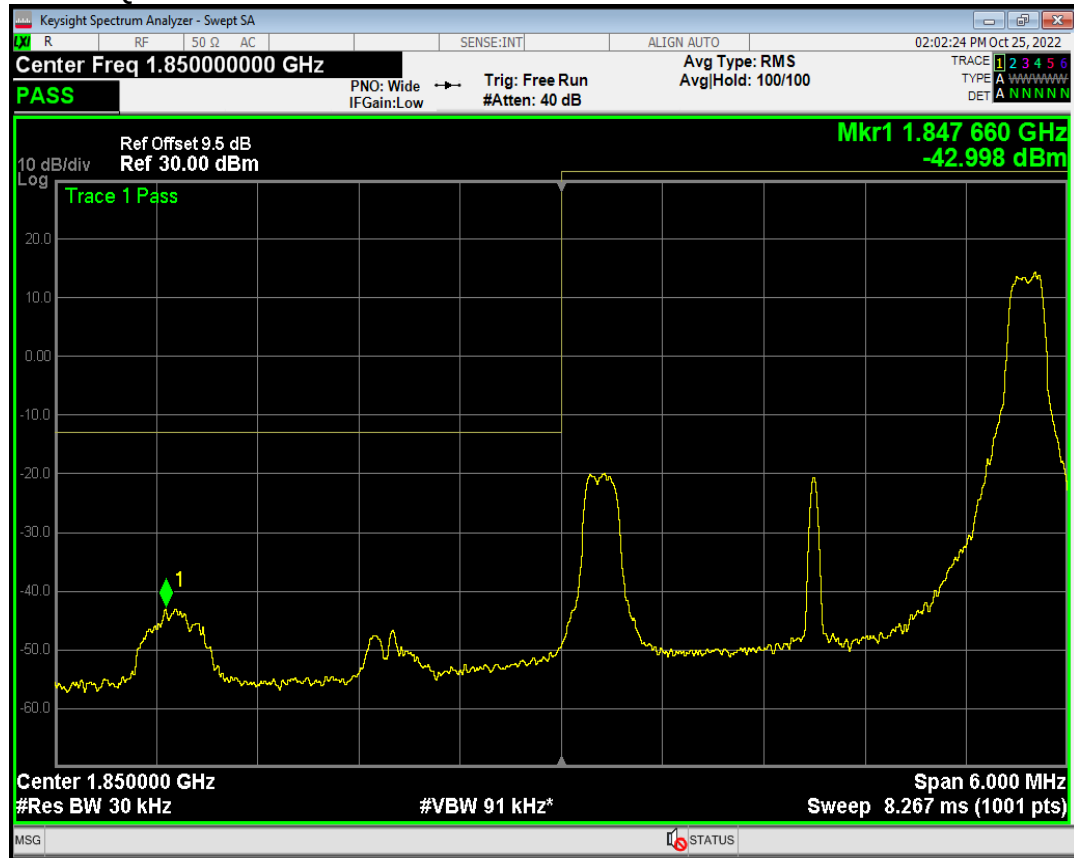


Band2 QAM16 BW=3MHz Channel=18615 RB Size=1 Position=#0

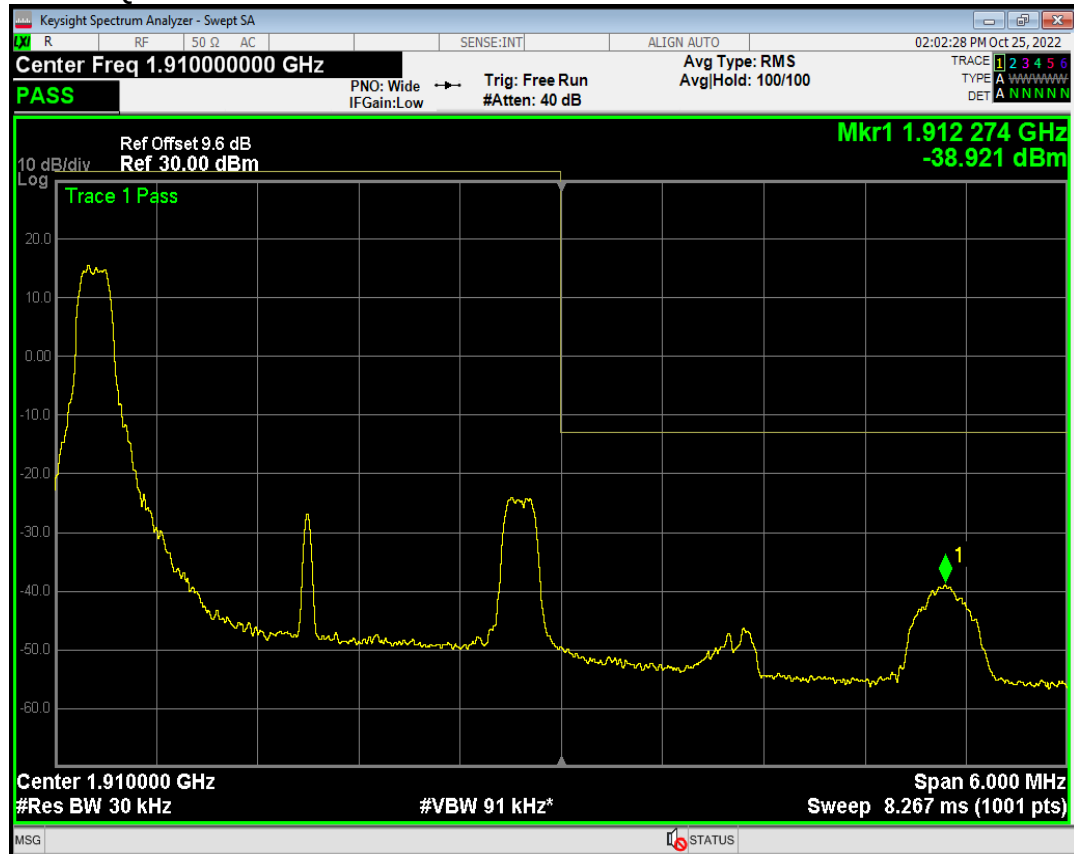




Band2 QAM16 BW=3MHz Channel=18615 RB Size=1 Position=#Max

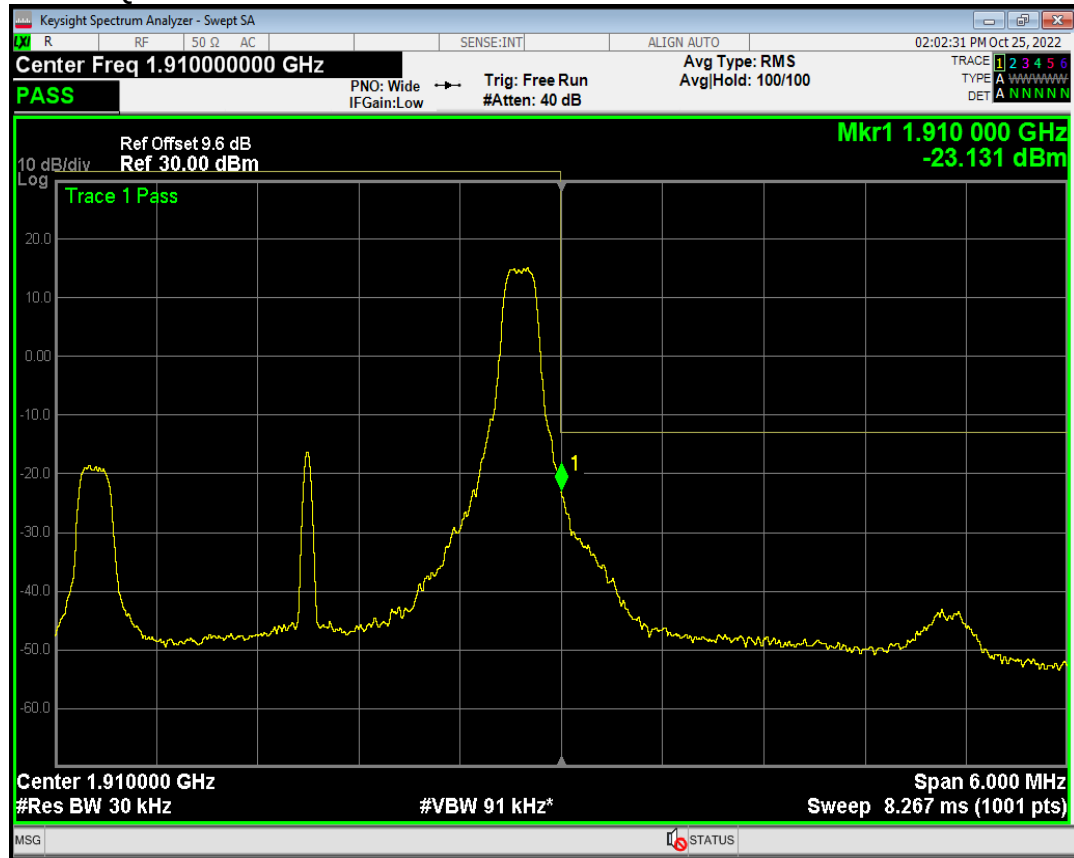


Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0

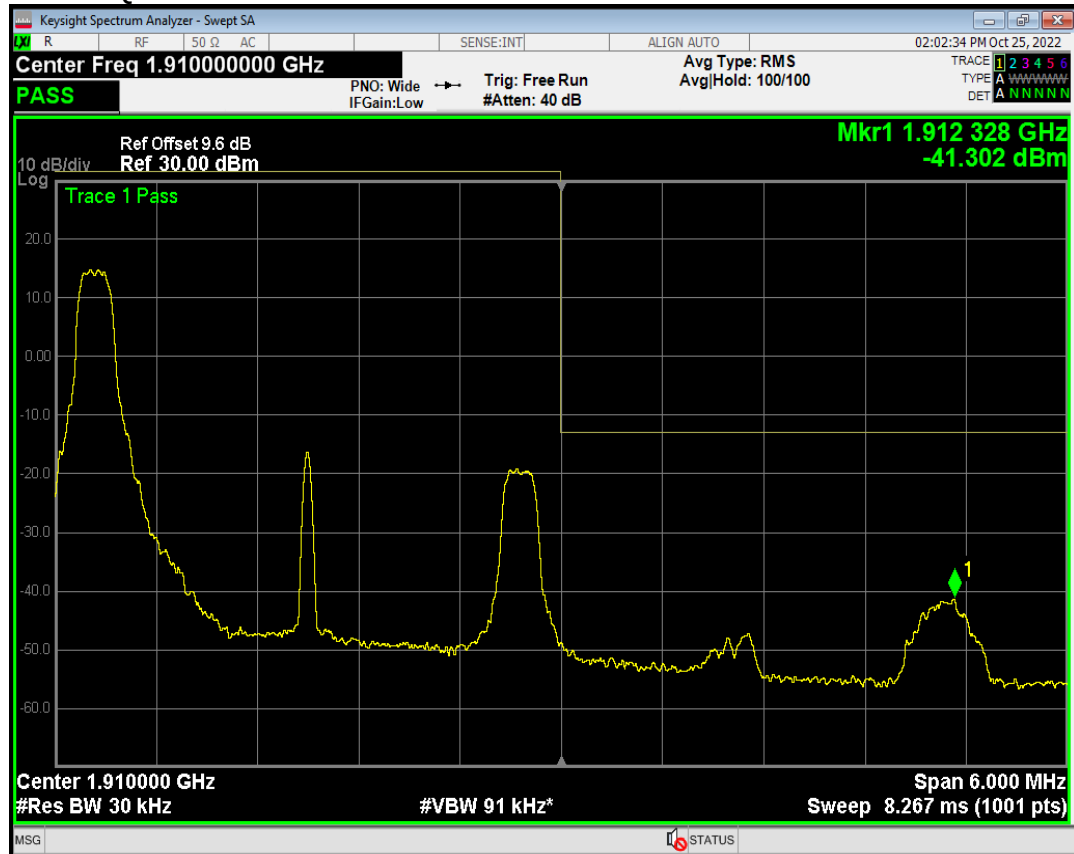




Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#Max

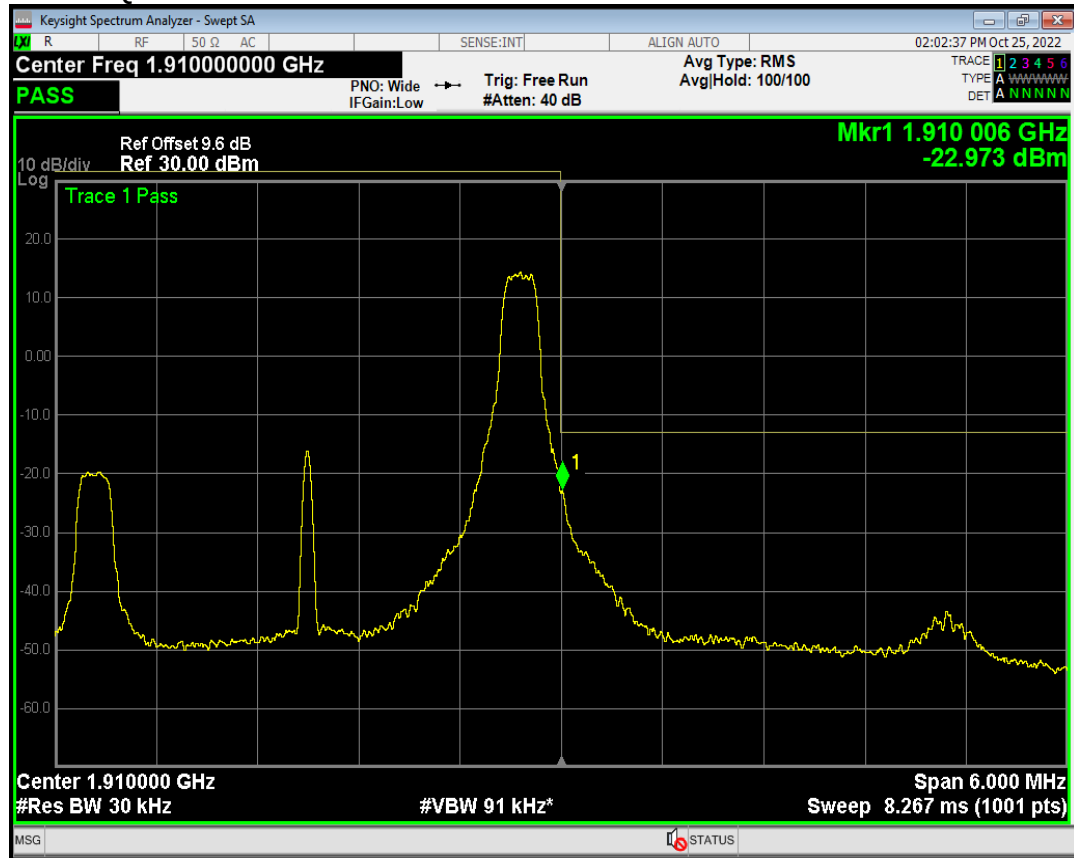


Band2 QAM16 BW=3MHz Channel=19185 RB Size=1 Position=#0

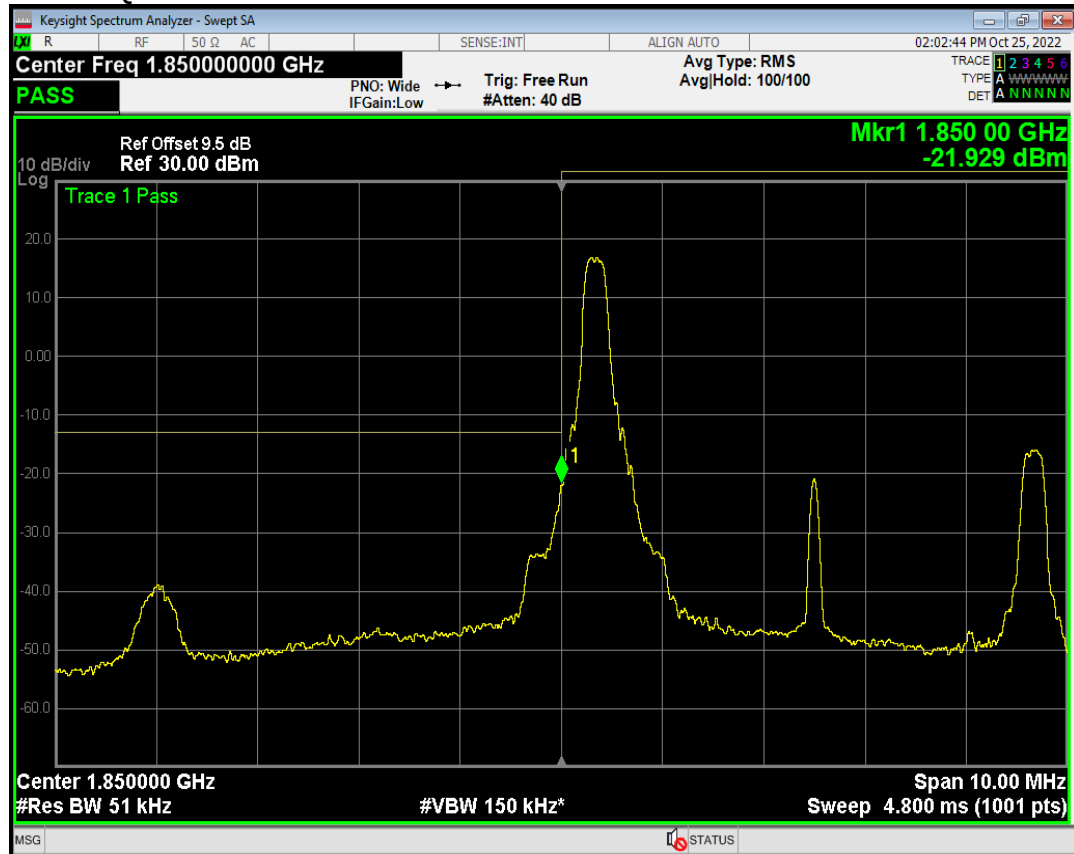




Band2 QAM16 BW=3MHz Channel=19185 RB Size=1 Position=#Max

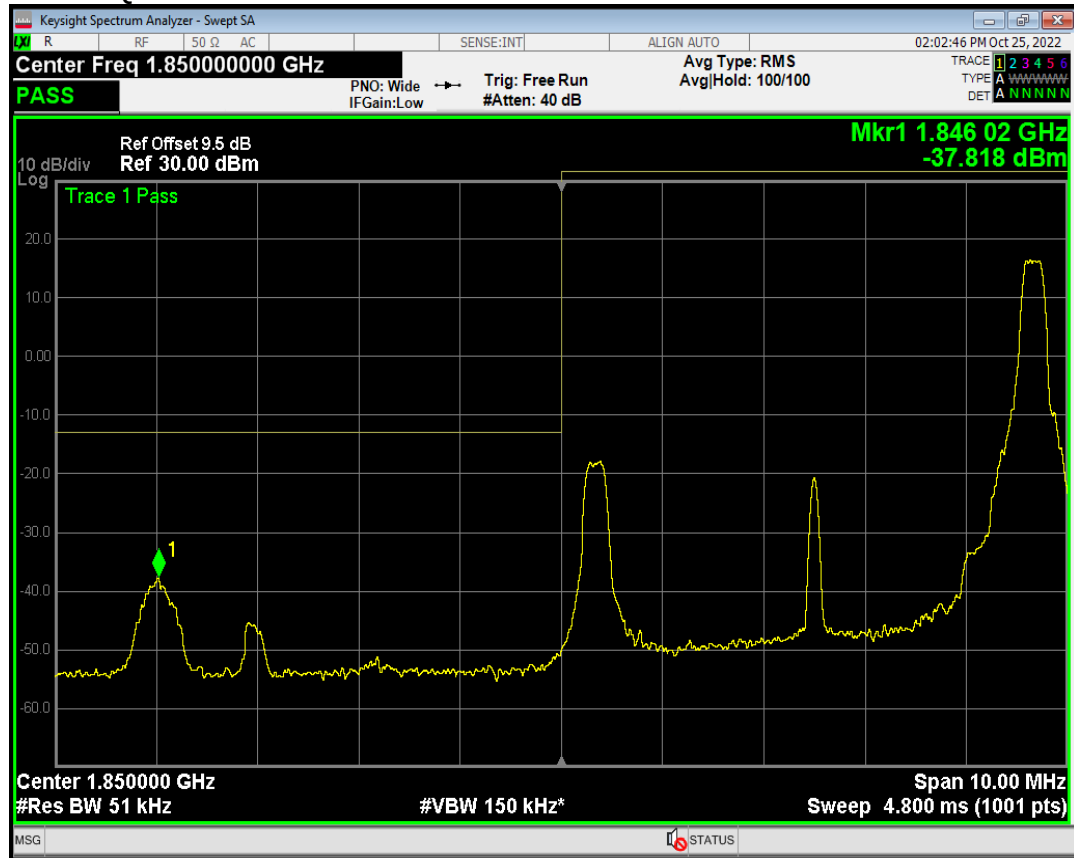


Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0

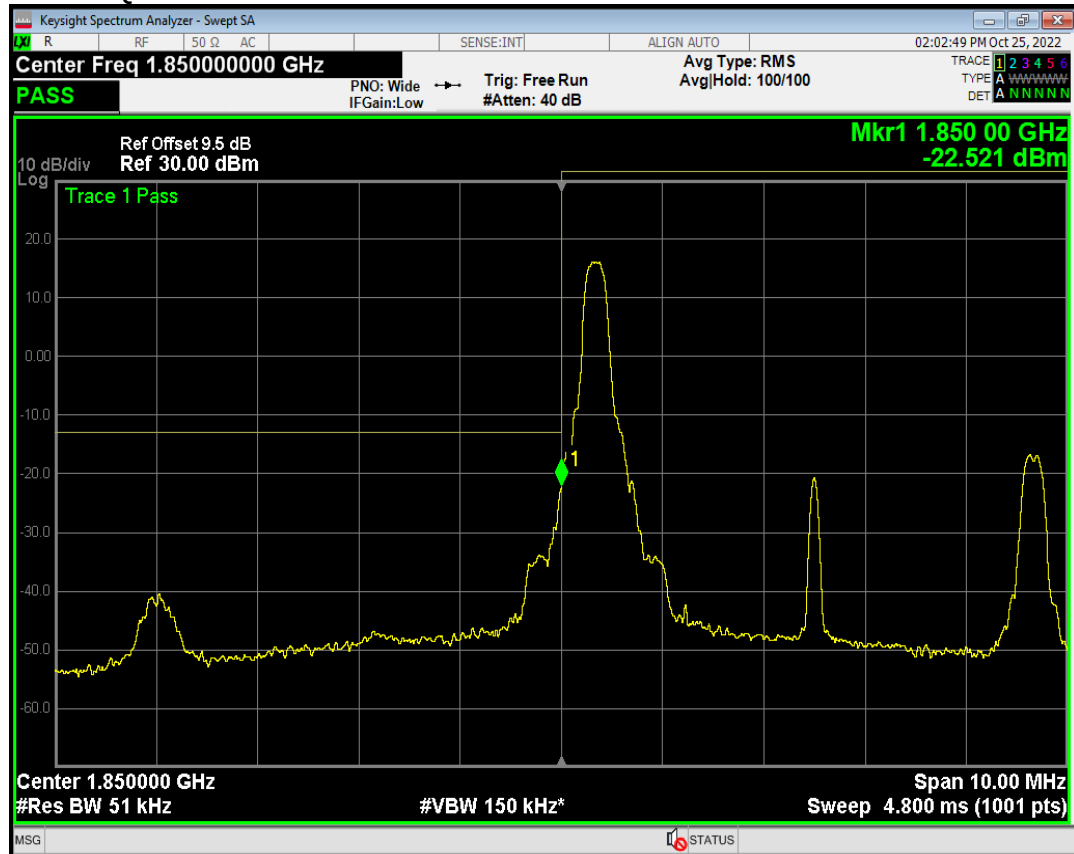




Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#Max

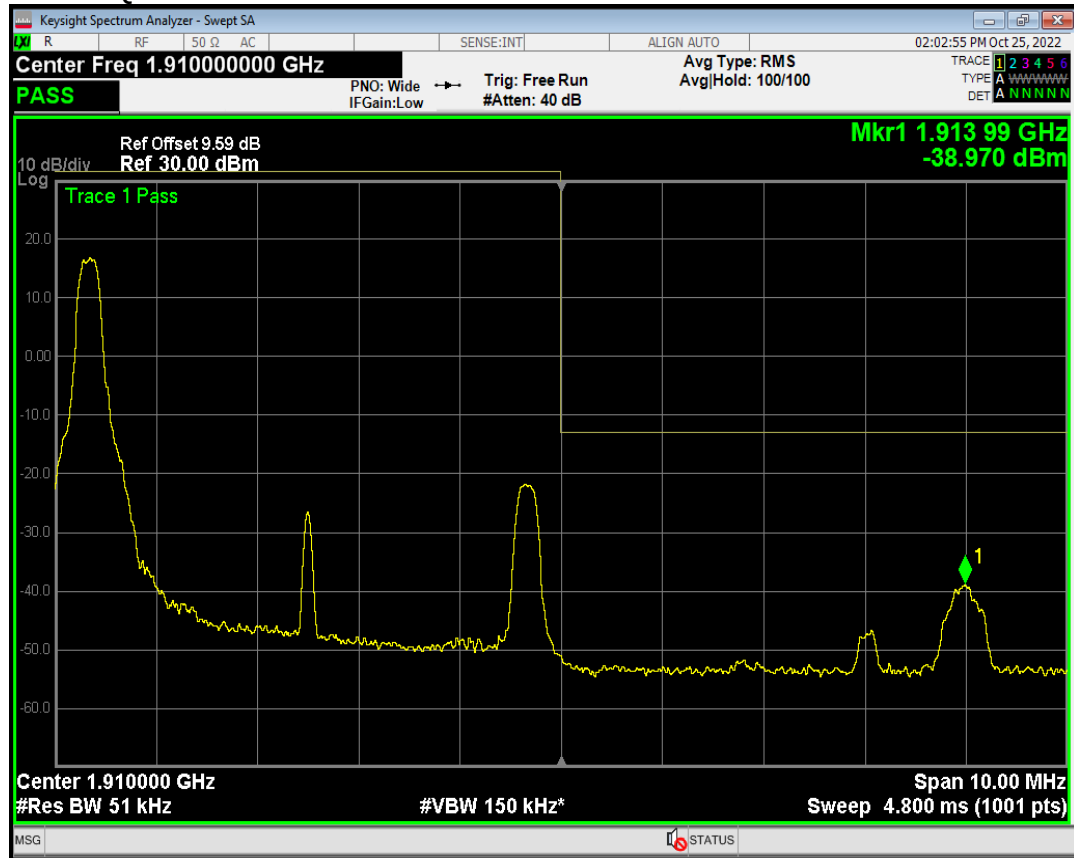


Band2 QAM16 BW=5MHz Channel=18625 RB Size=1 Position=#0

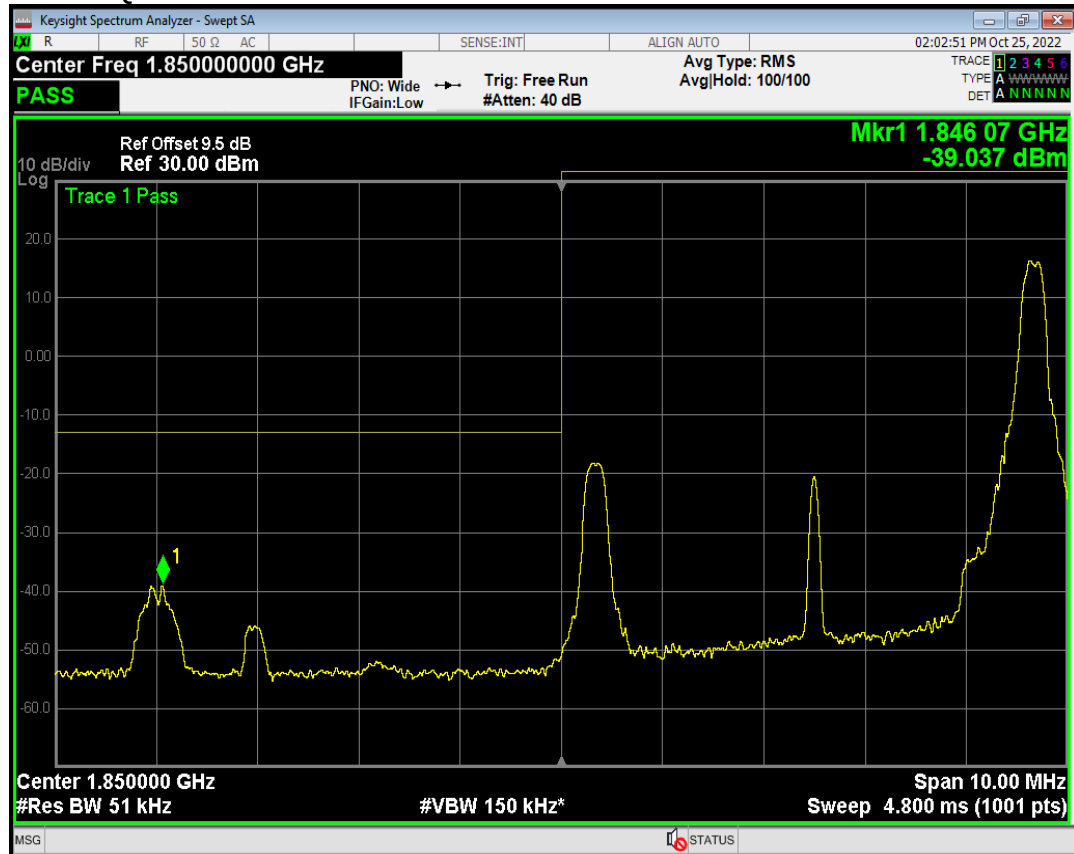




Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0

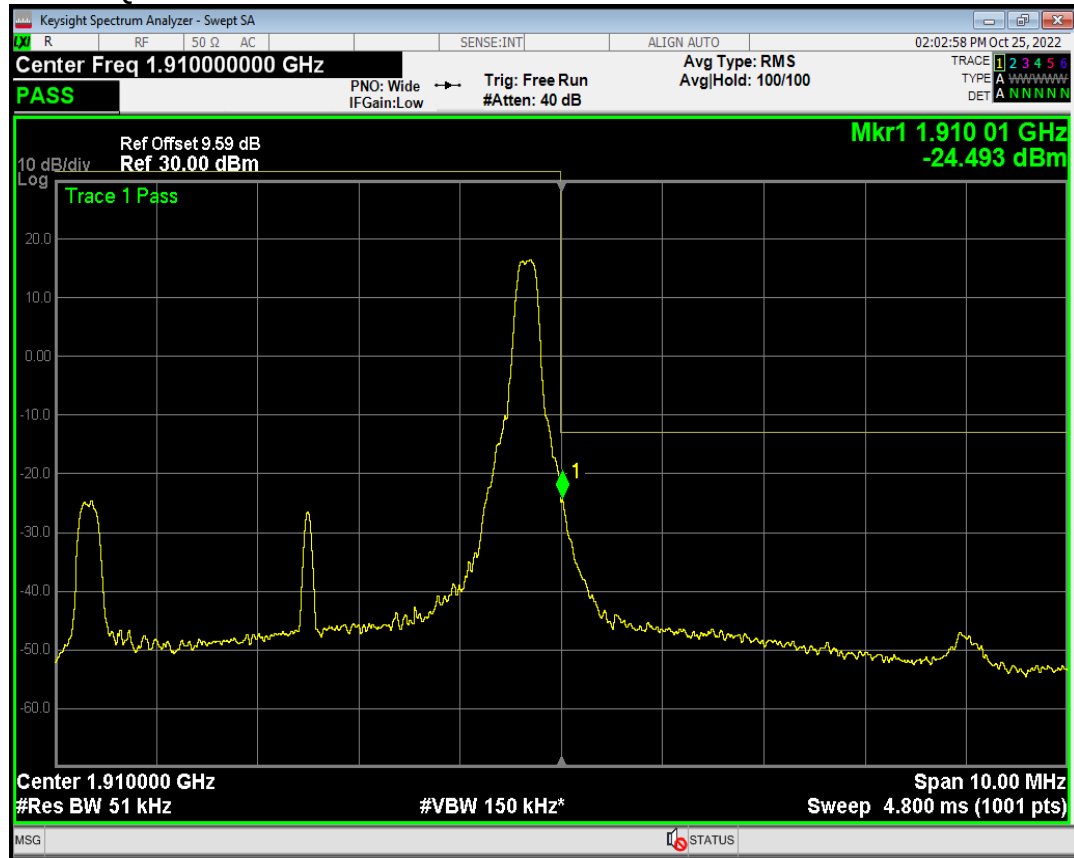


Band2 QAM16 BW=5MHz Channel=18625 RB Size=1 Position=#Max

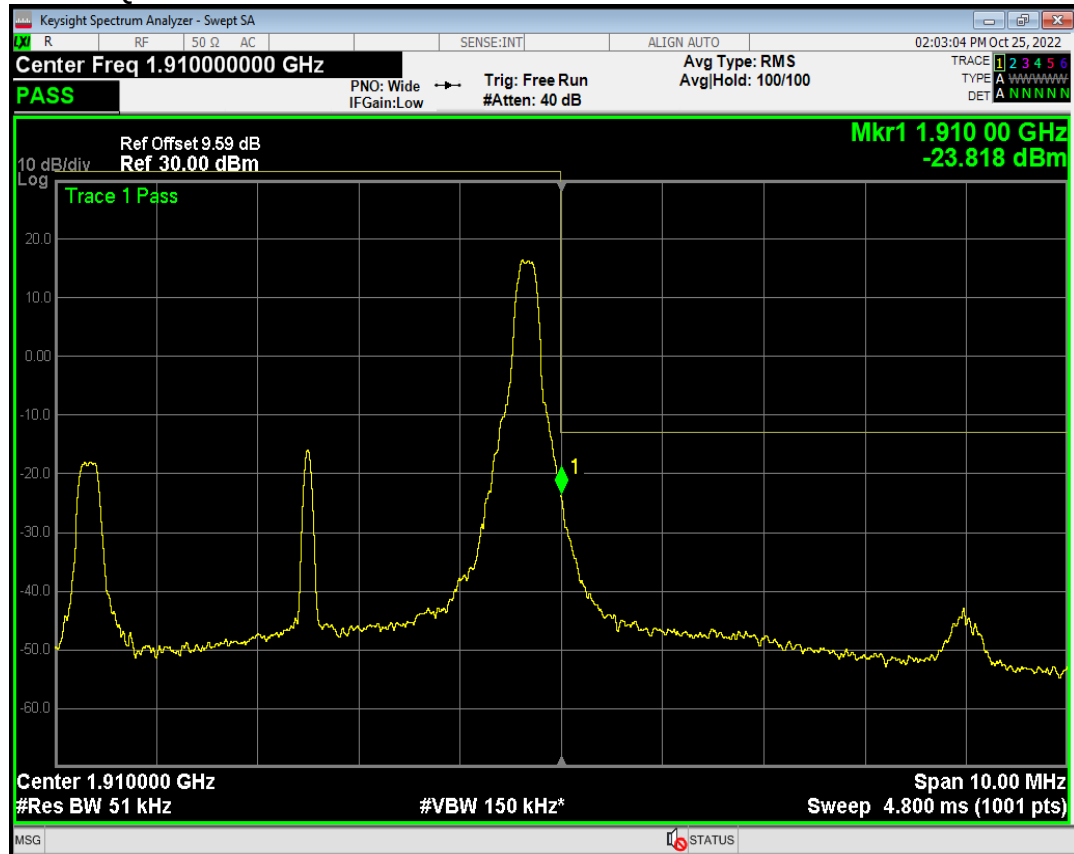




Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#Max

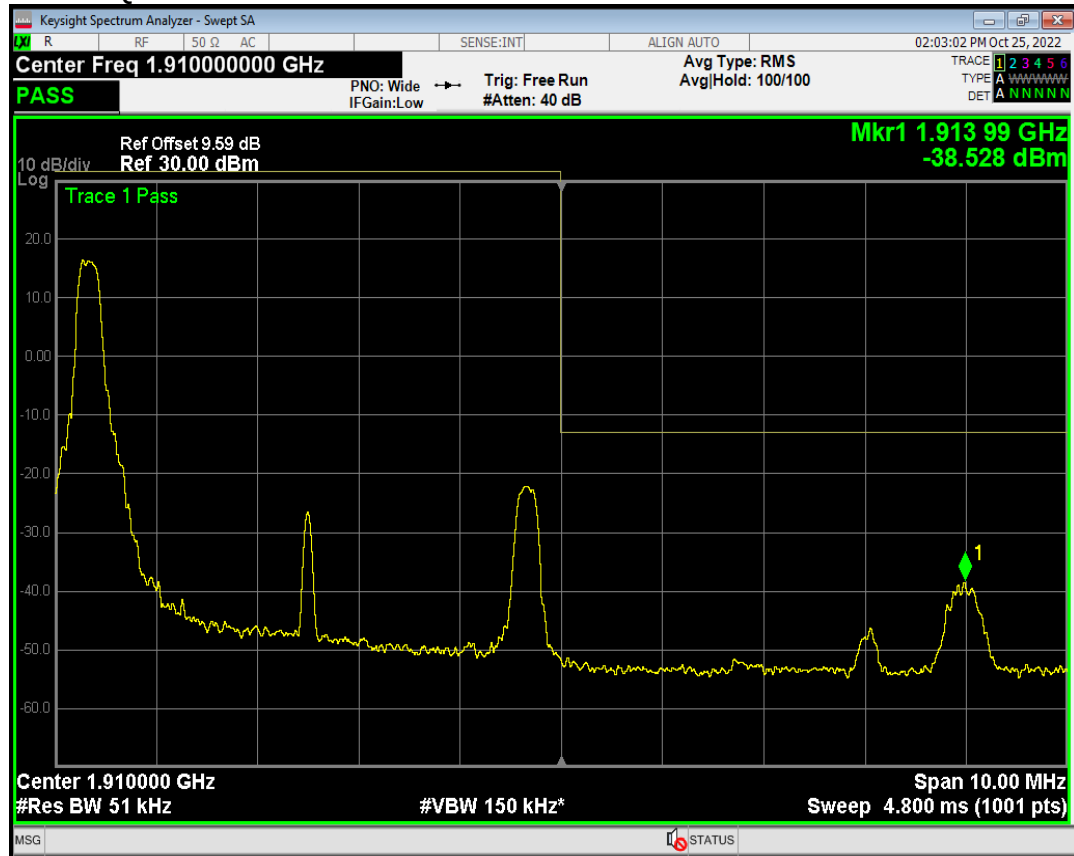


Band2 QAM16 BW=5MHz Channel=19175 RB Size=1 Position=#Max

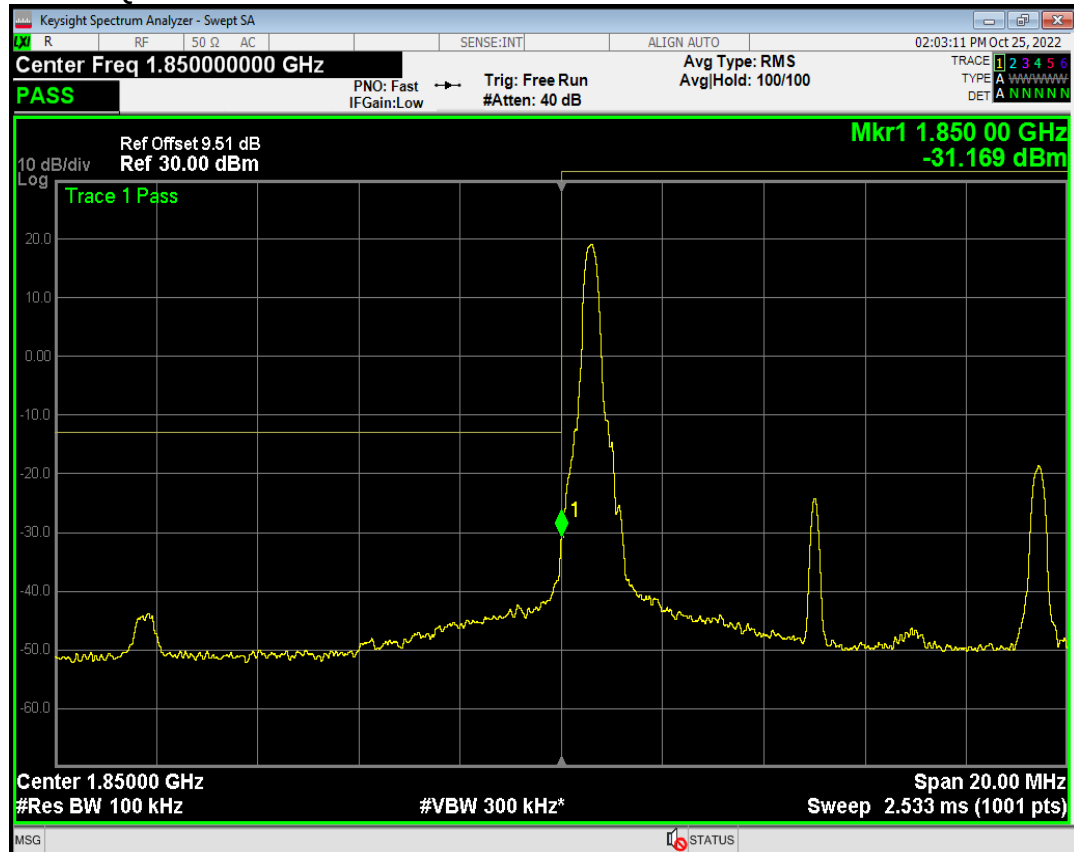




Band2 QAM16 BW=5MHz Channel=19175 RB Size=1 Position=#0

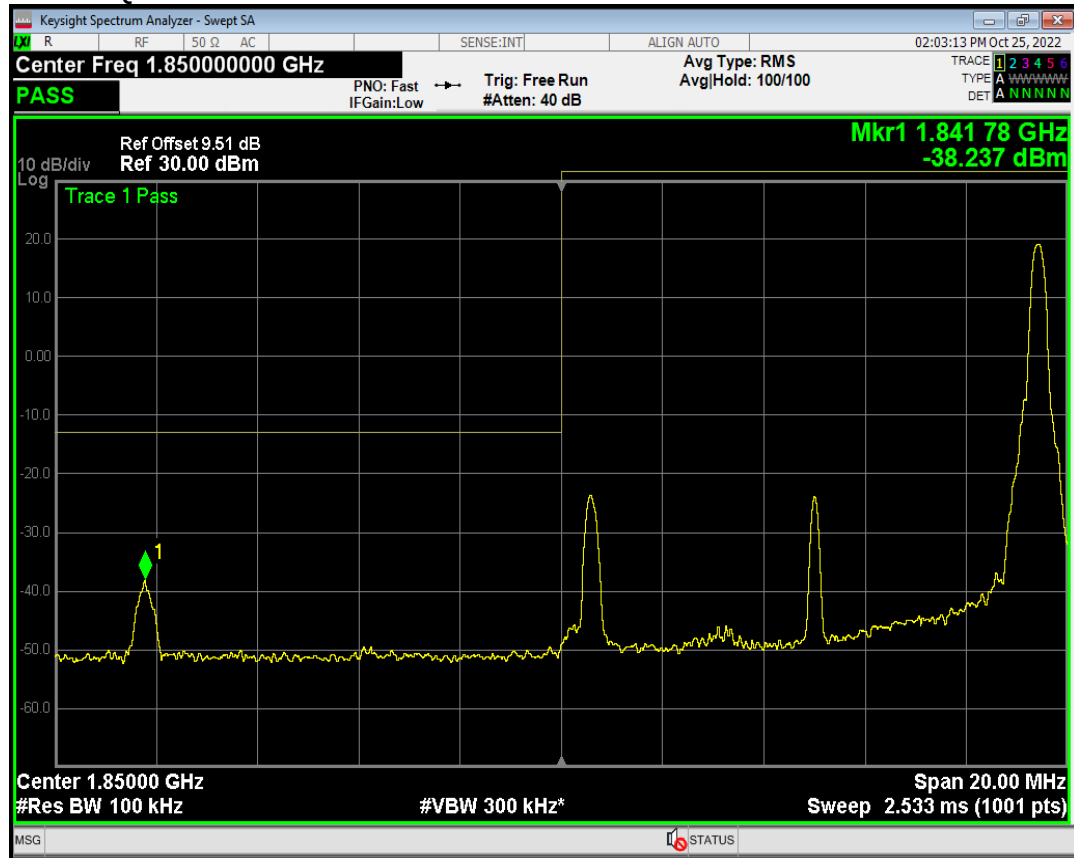


Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0

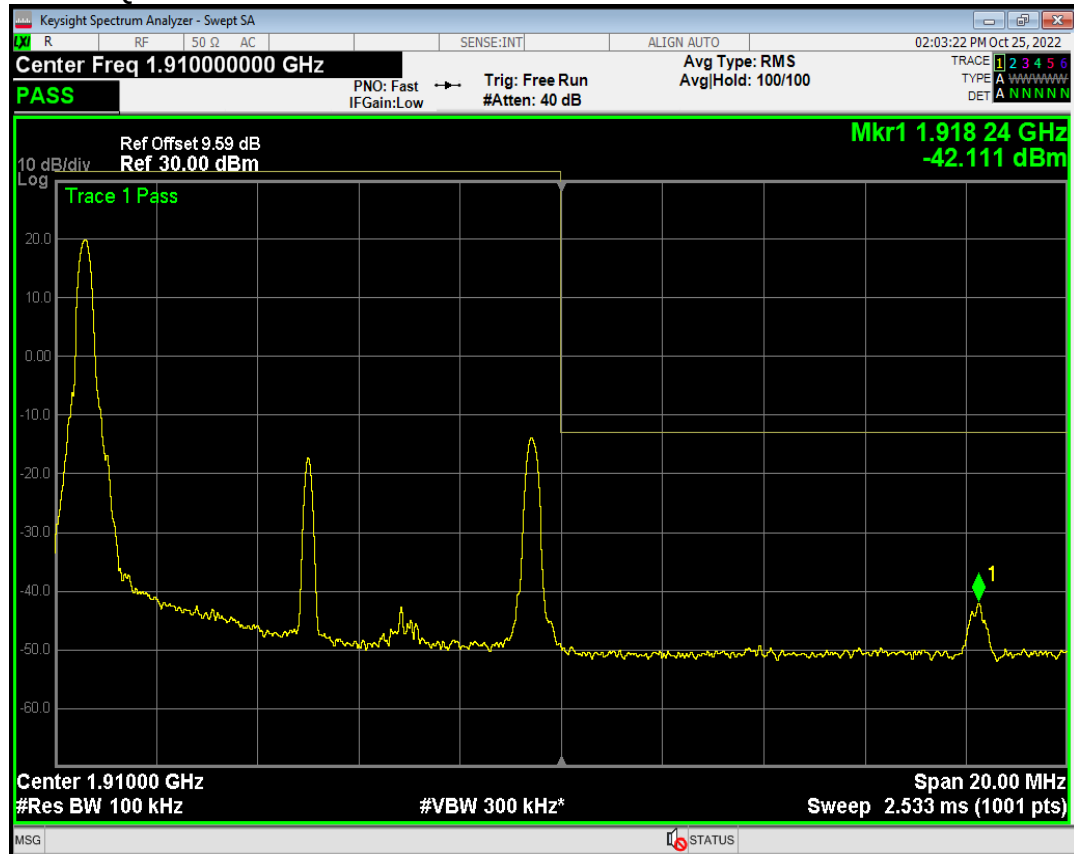




Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#Max

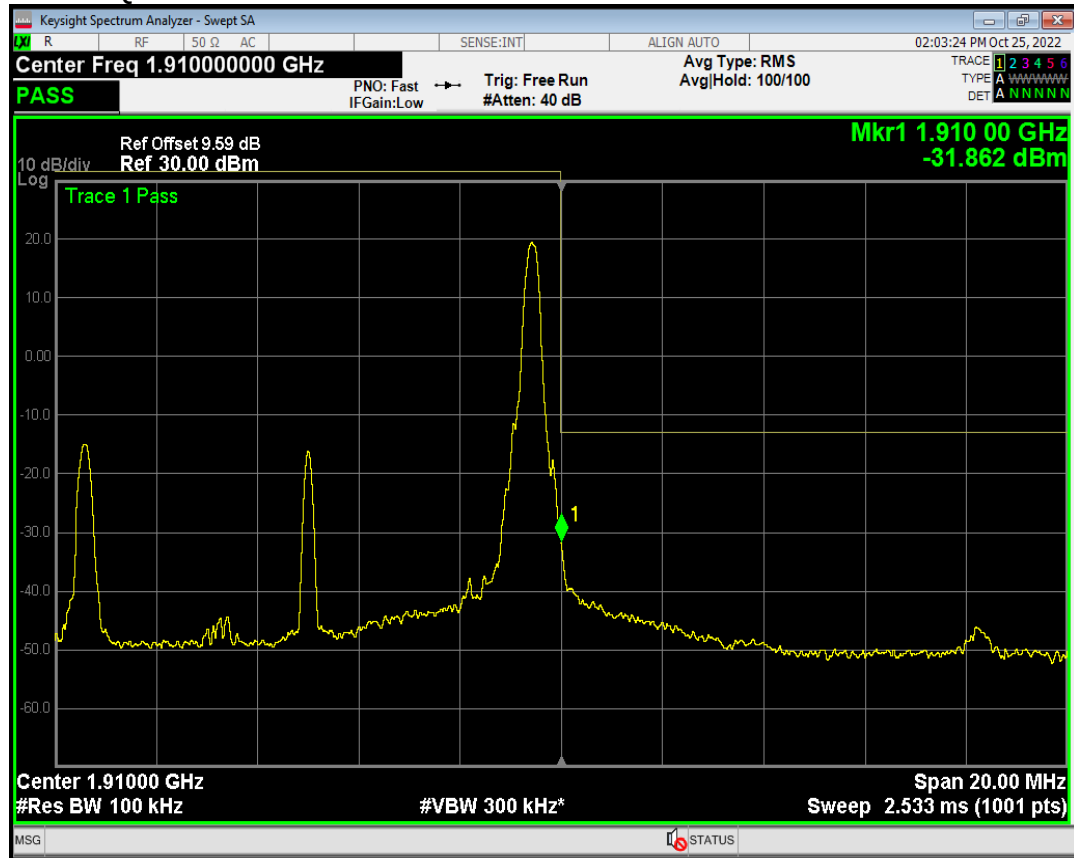


Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0

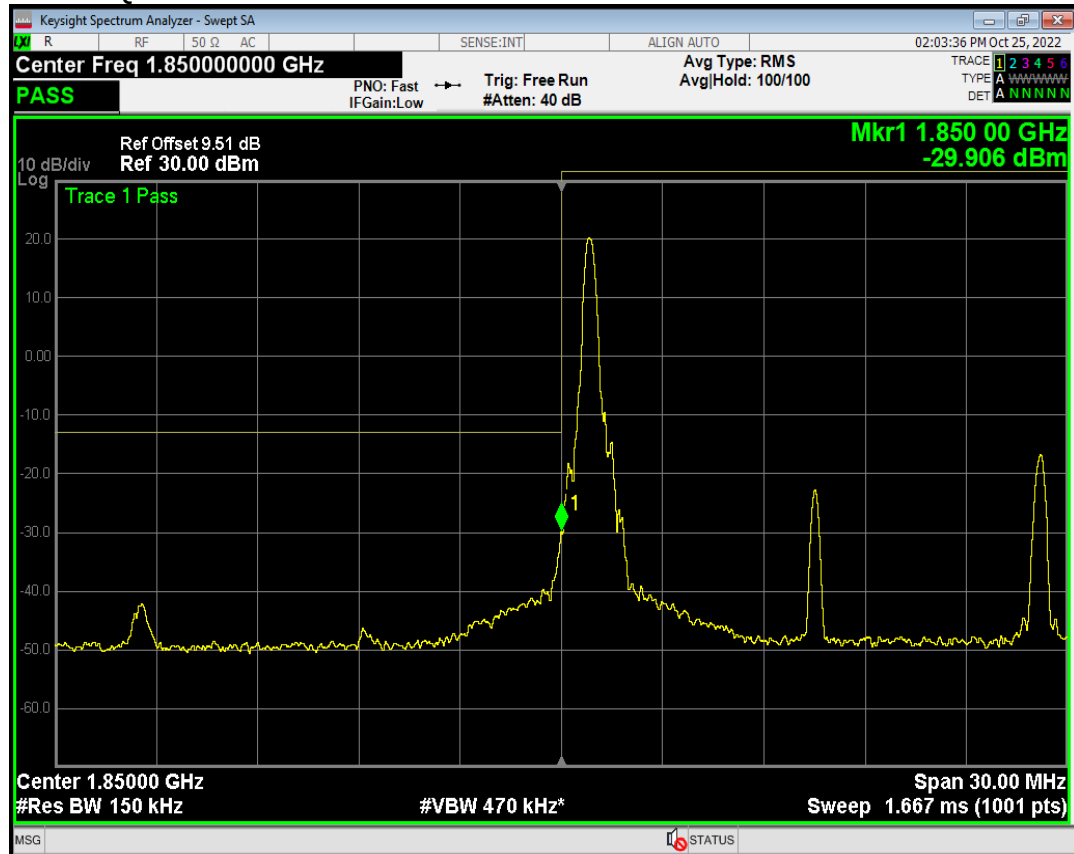




Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#Max

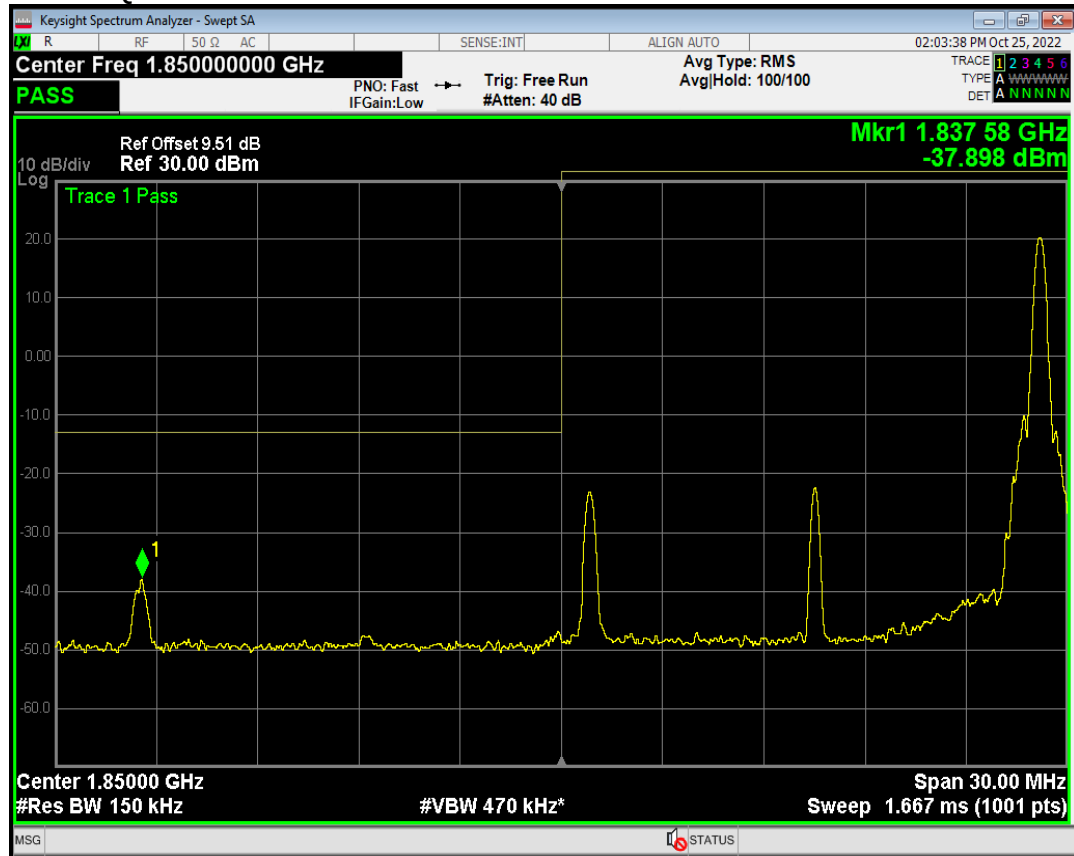


Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0

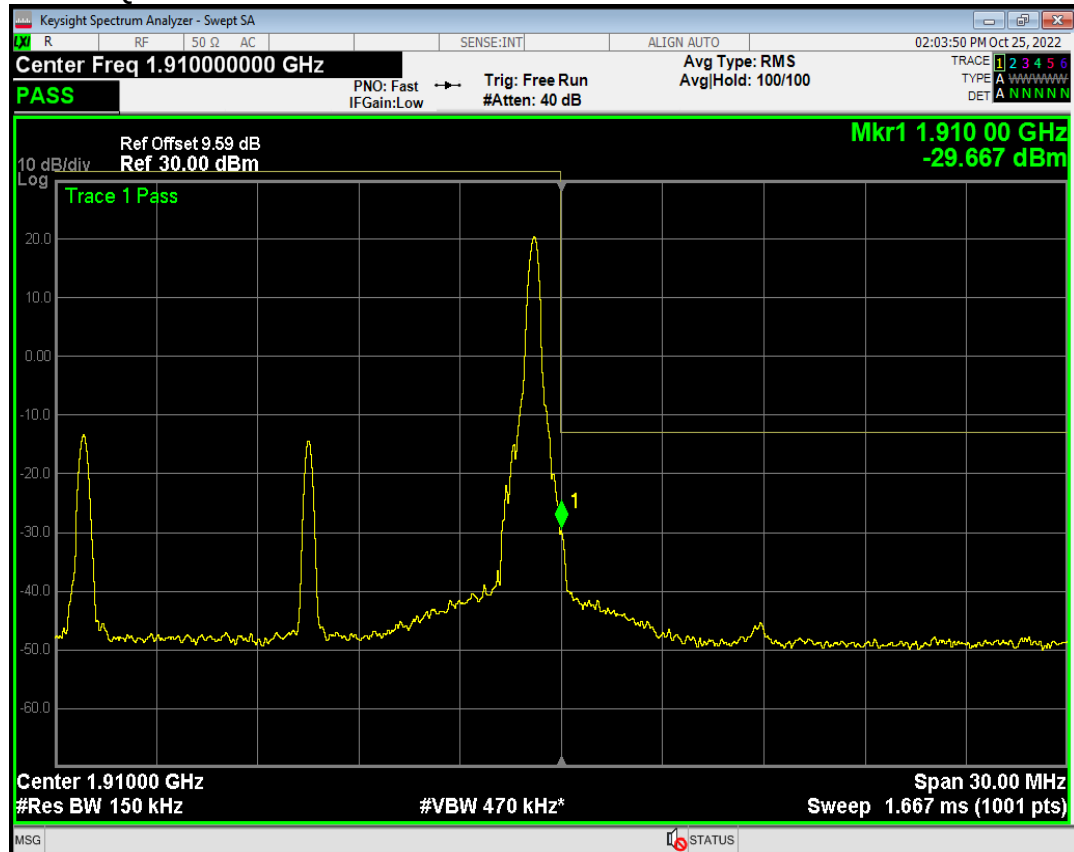




Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#Max

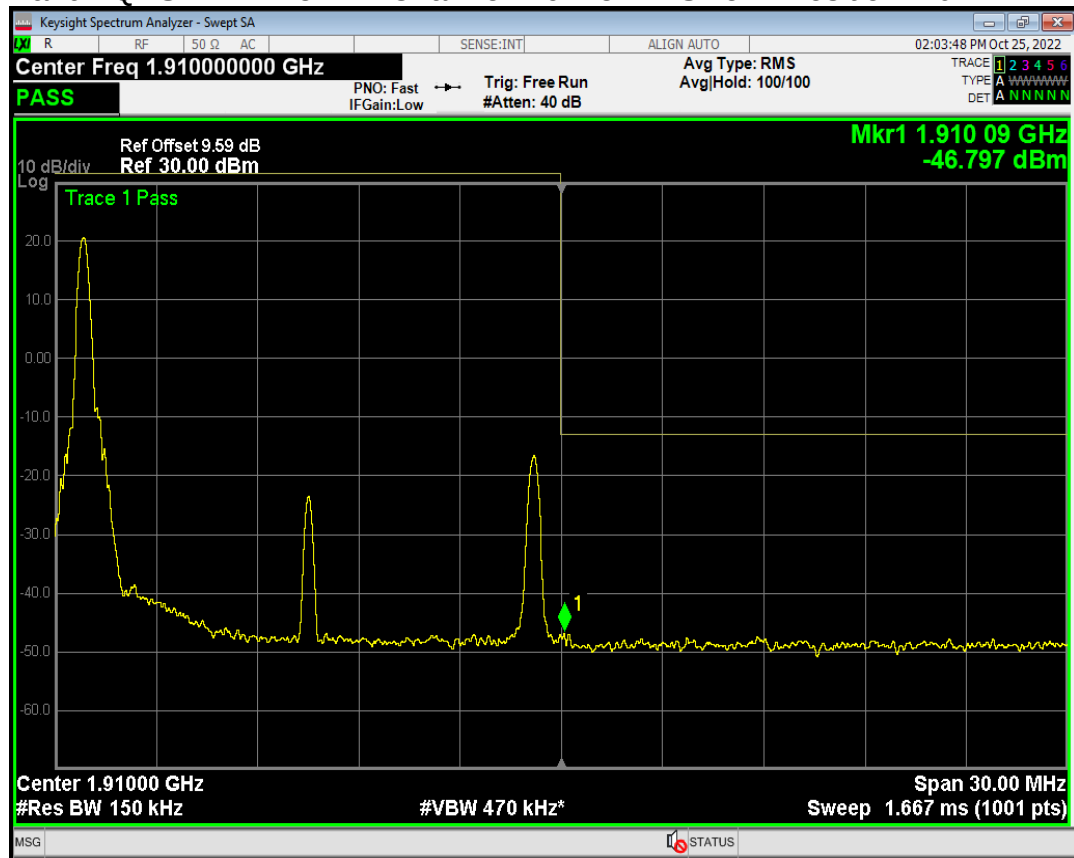


Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#Max

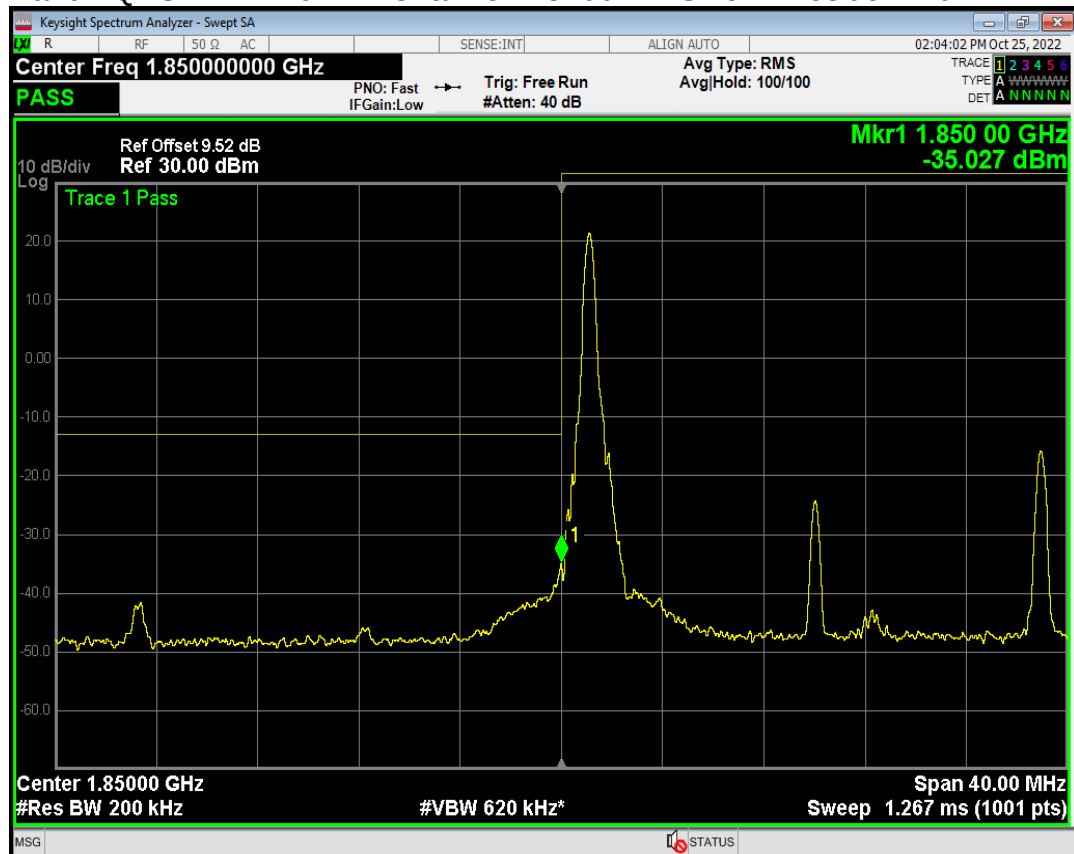




Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0

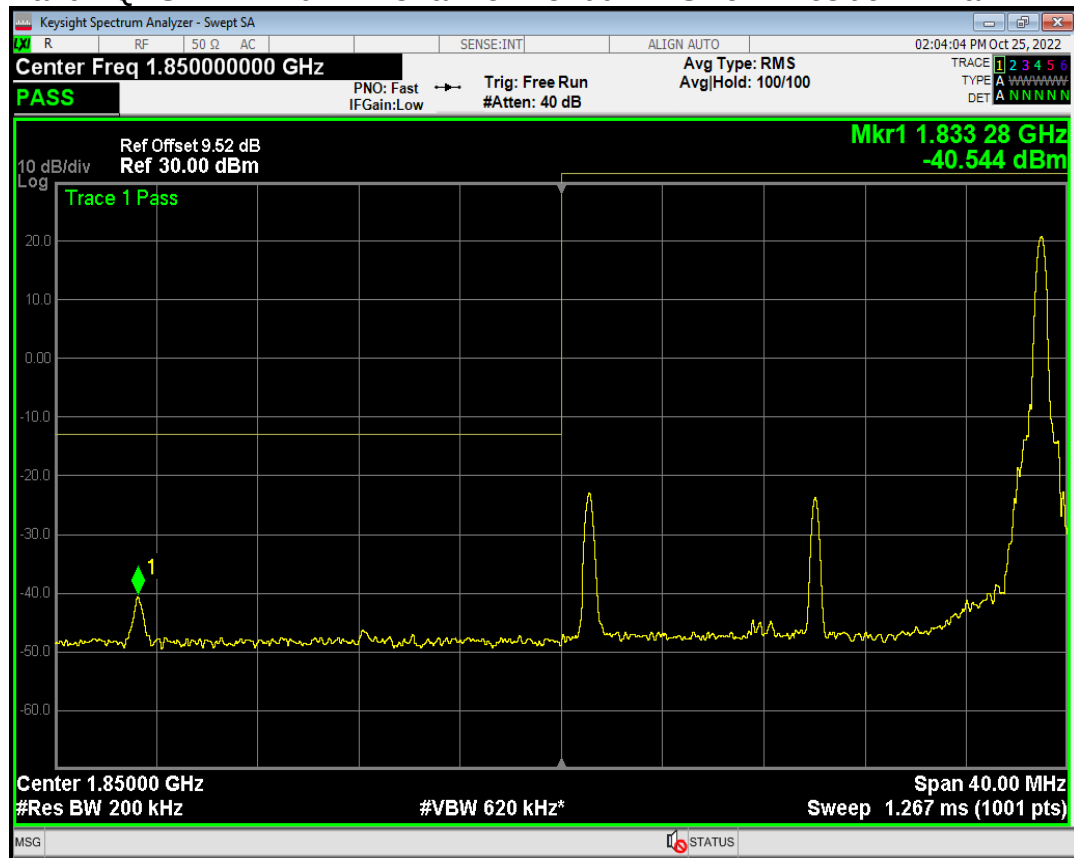


Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0

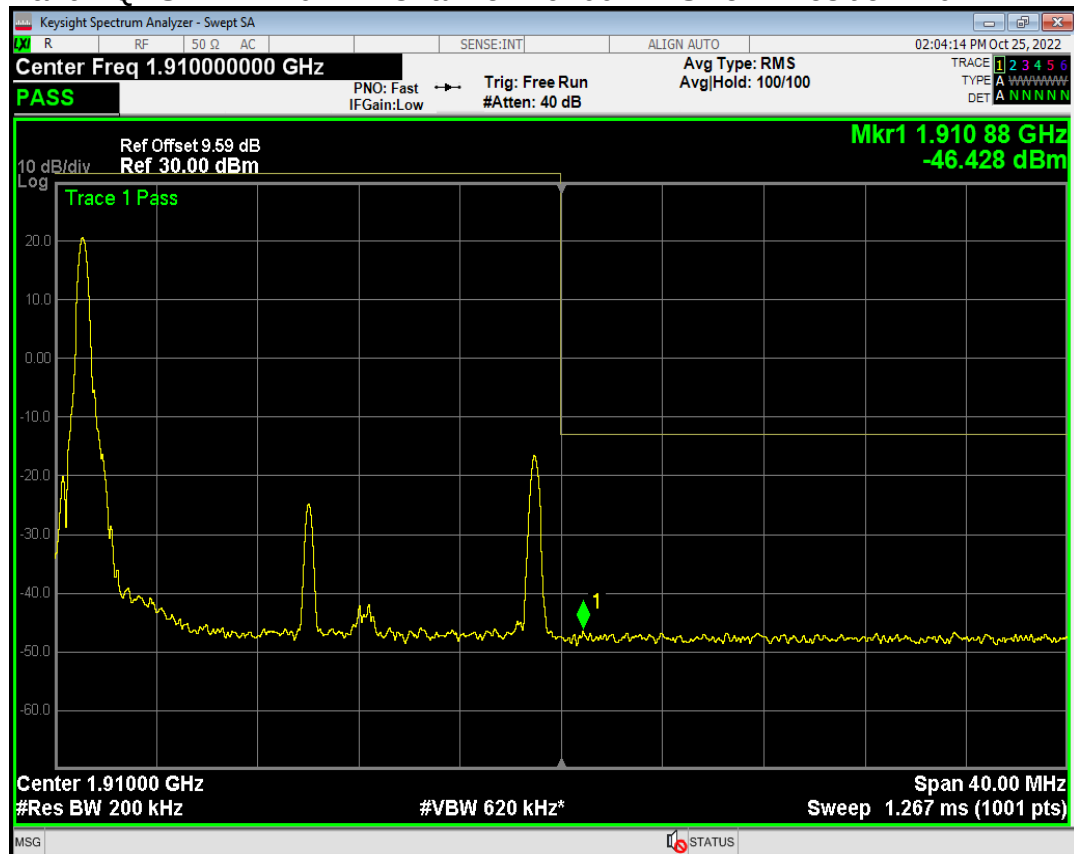




Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#Max

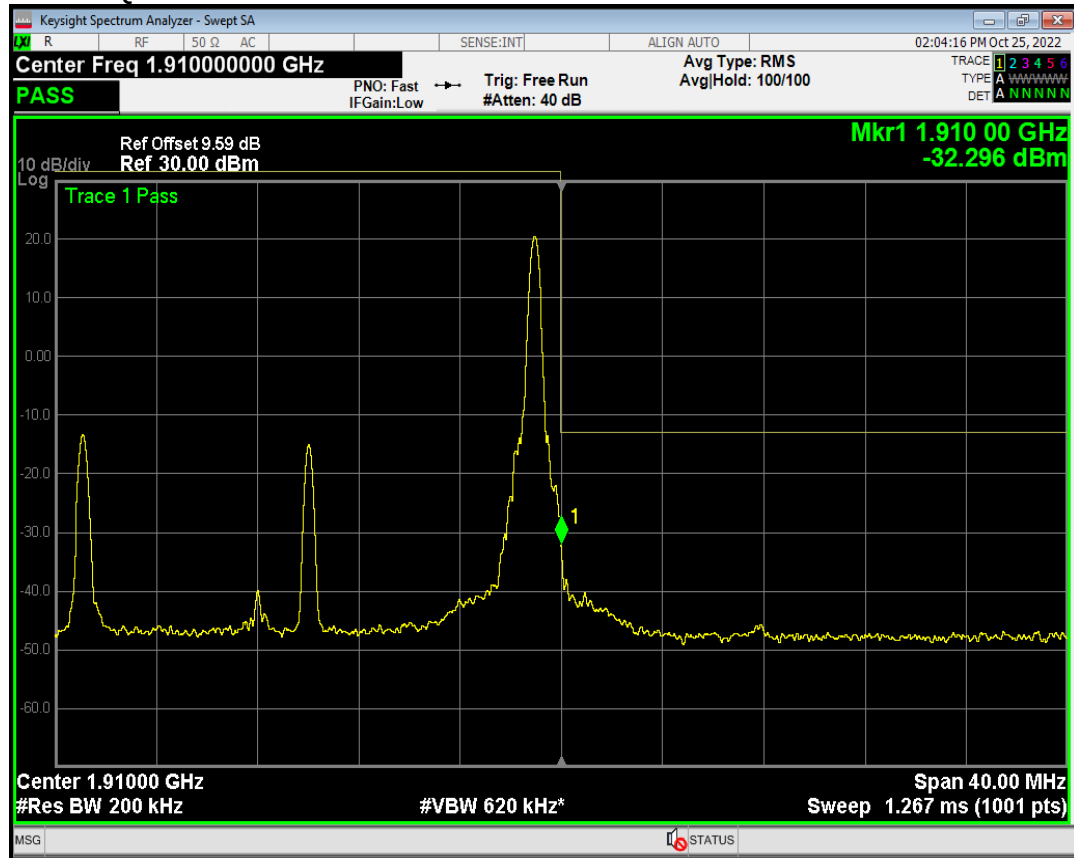


Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0

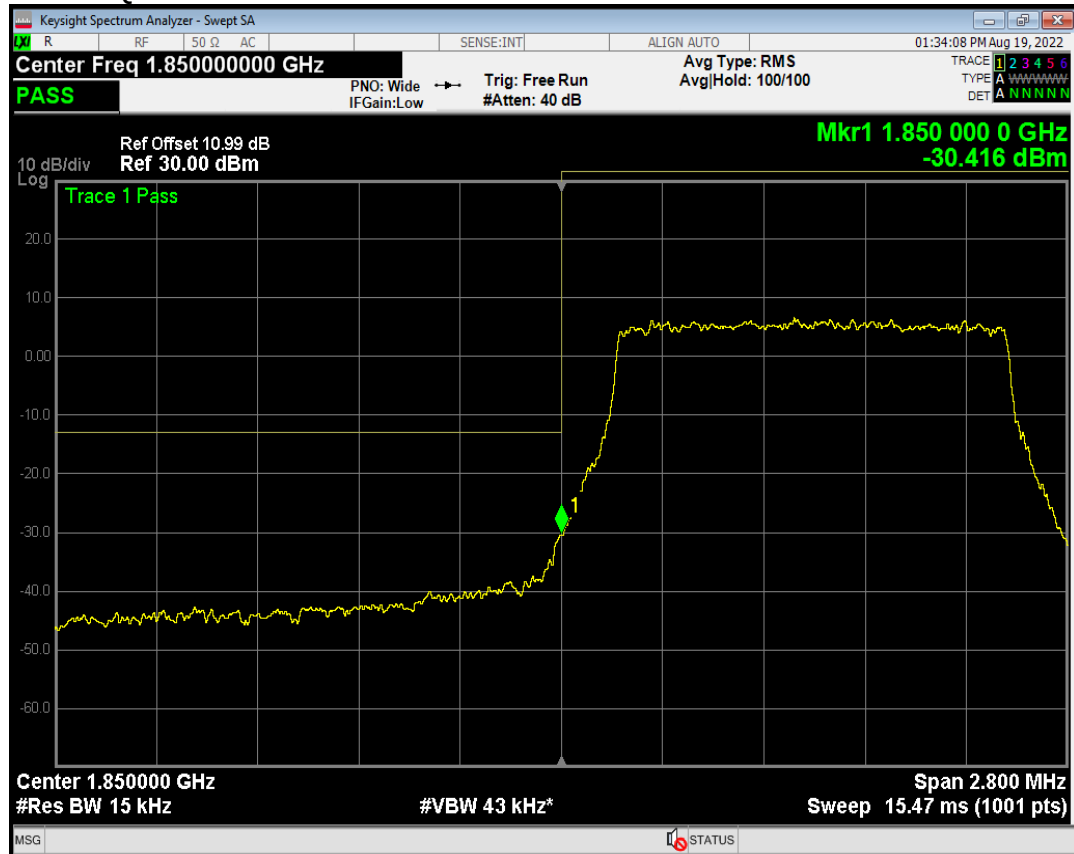




Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#Max

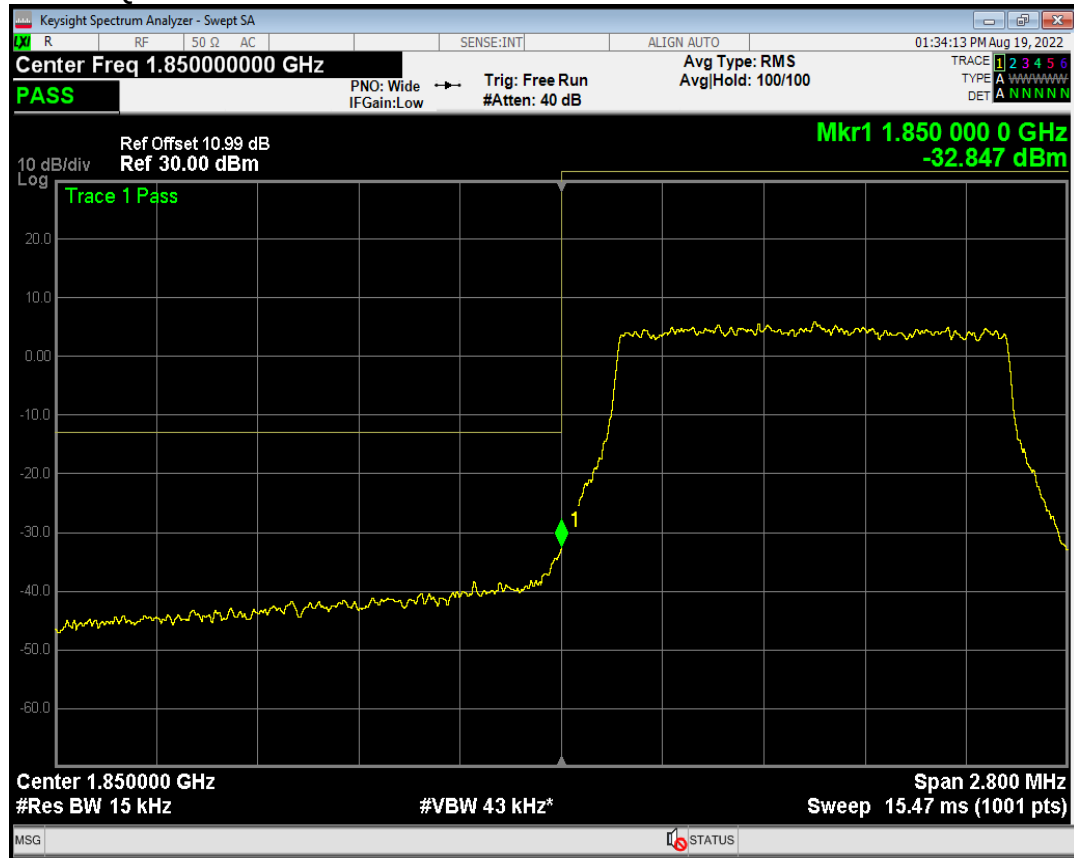


Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0





Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=6 Position=#0



Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=6 Position=#0

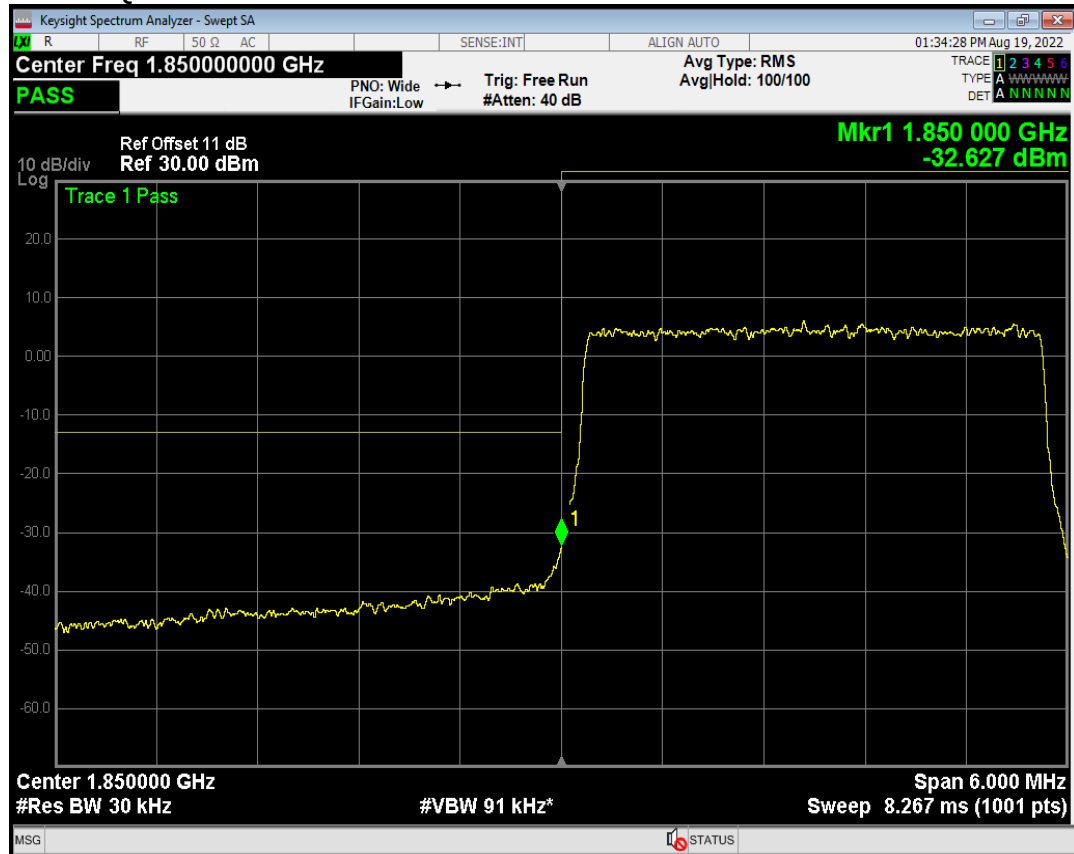




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

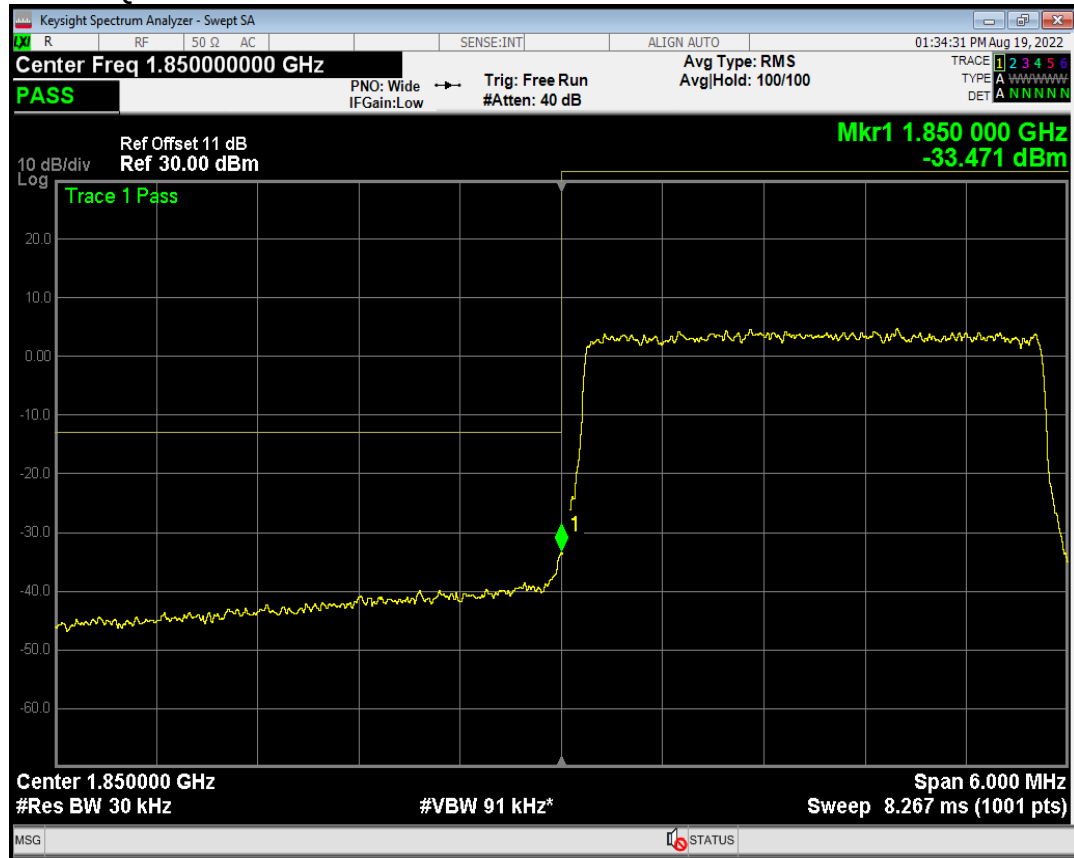


Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0

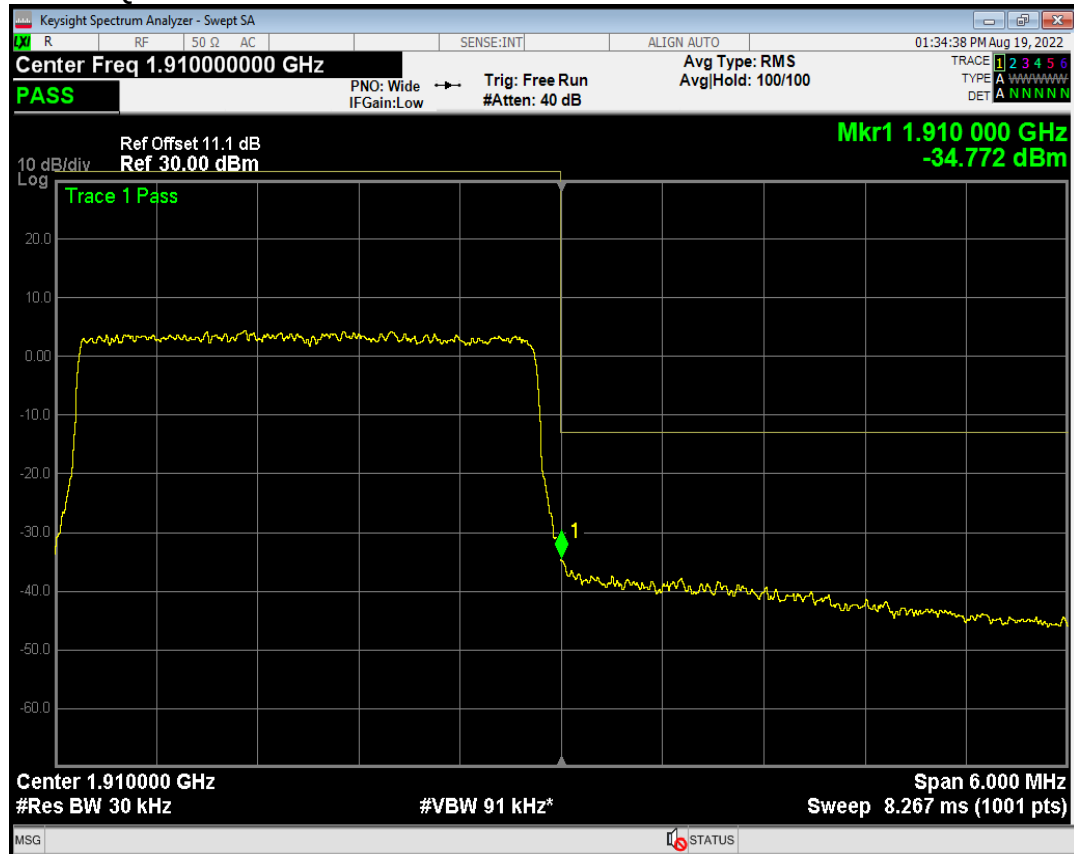




Band2 QAM16 BW=3MHz Channel=18615 RB Size=15 Position=#0



Band2 QAM16 BW=3MHz Channel=19185 RB Size=15 Position=#0

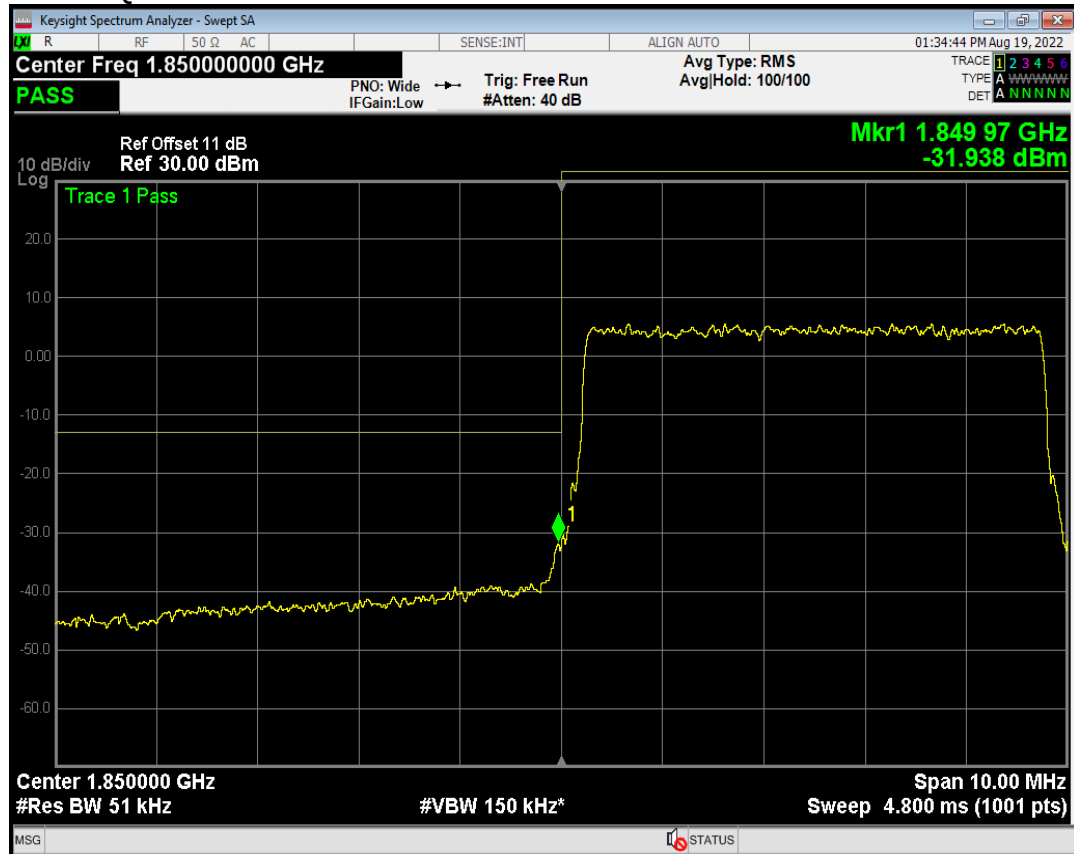




Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0



Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

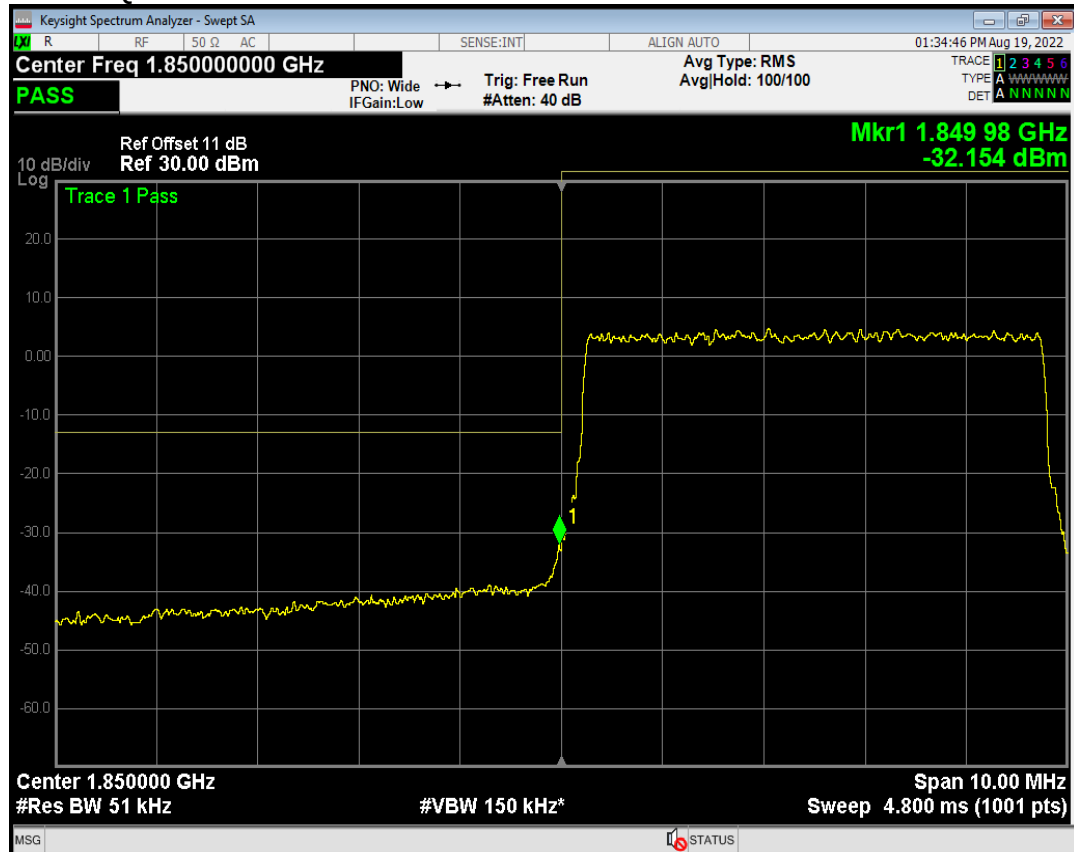




Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0

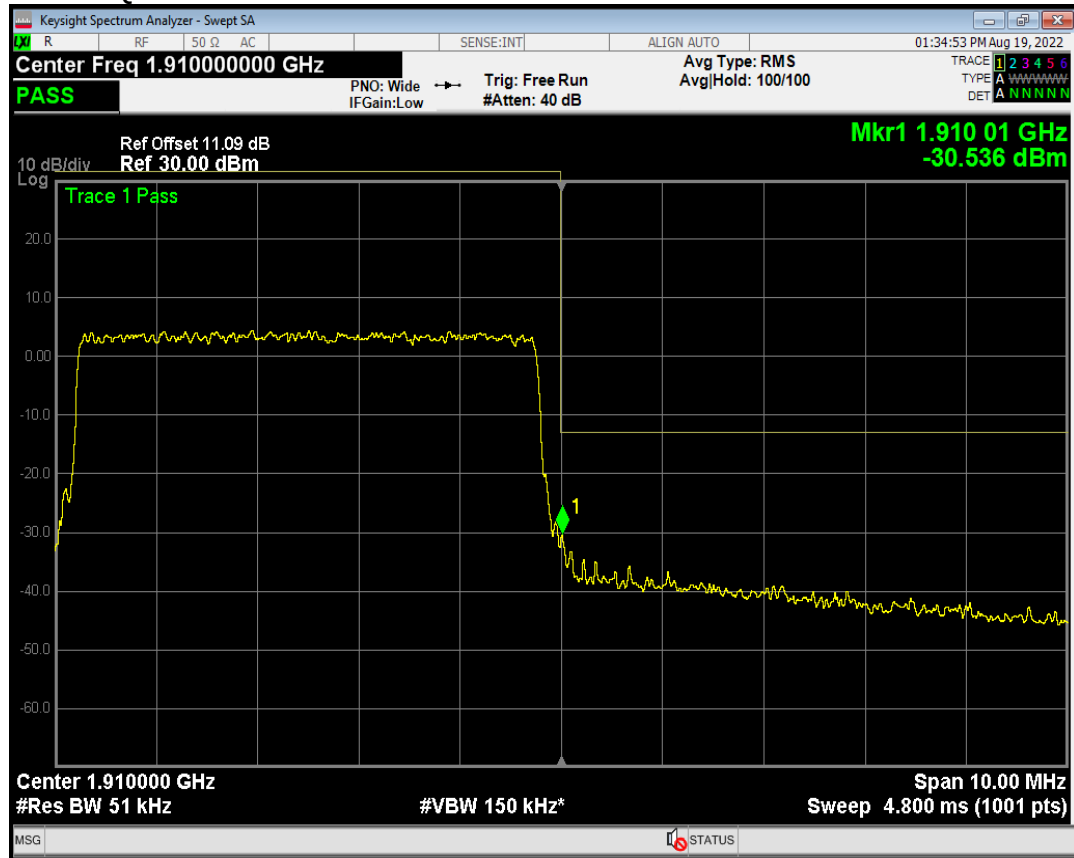


Band2 QAM16 BW=5MHz Channel=18625 RB Size=25 Position=#0

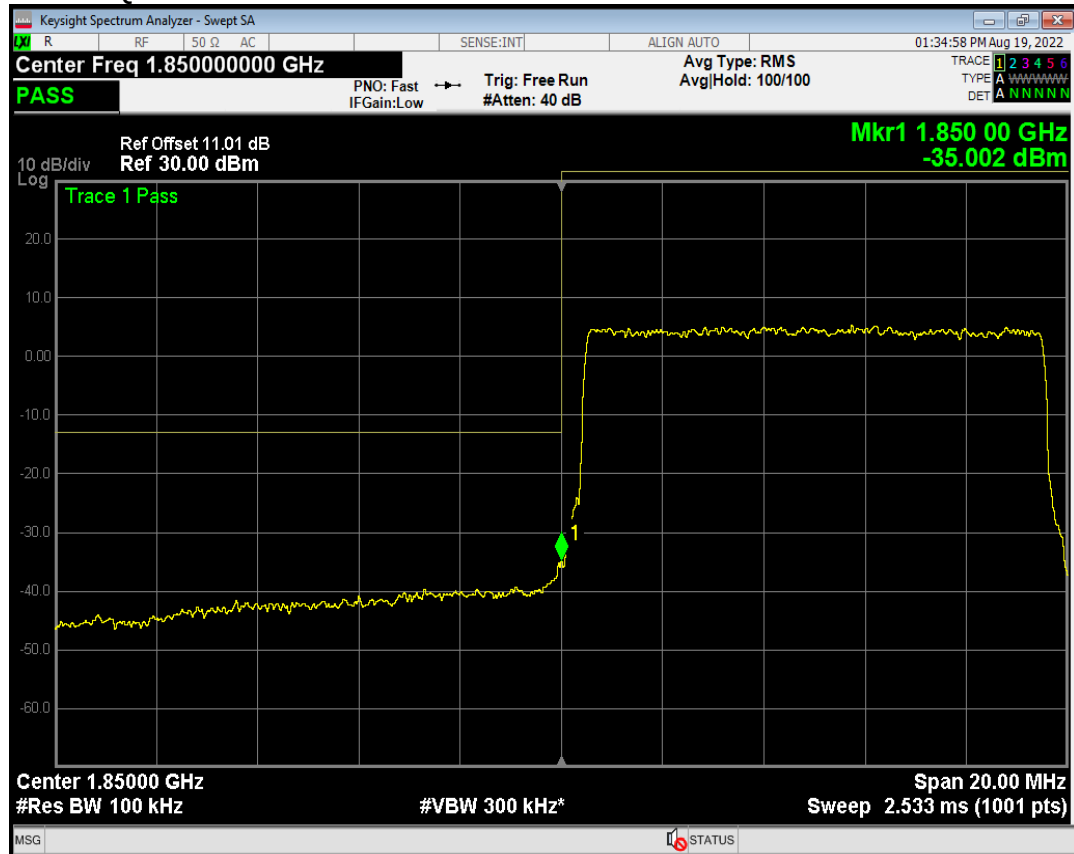




Band2 QAM16 BW=5MHz Channel=19175 RB Size=25 Position=#0

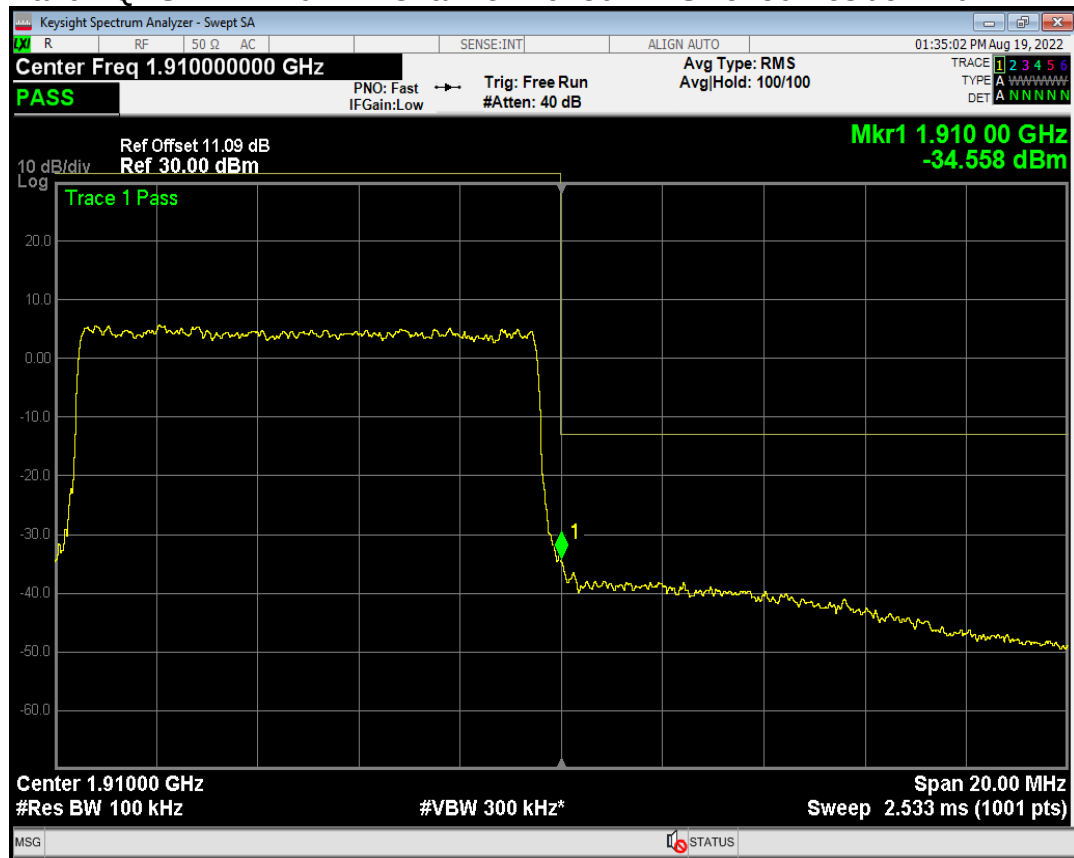


Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0

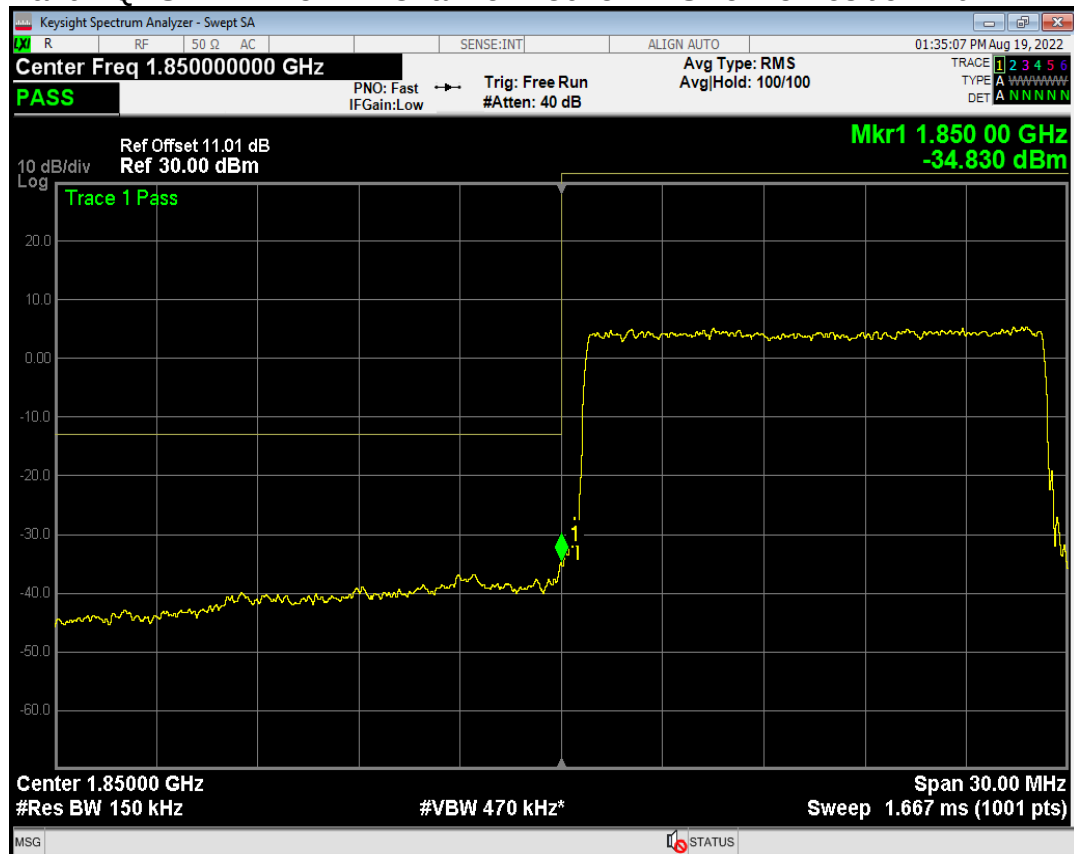




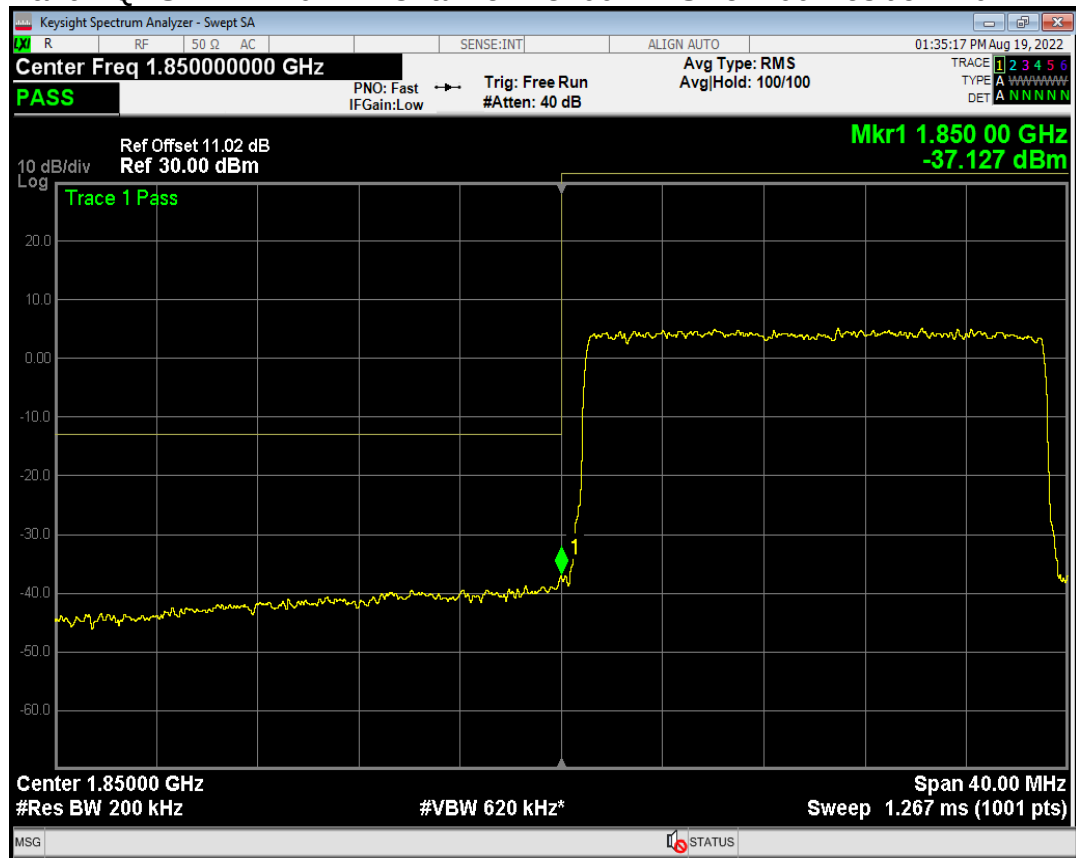
Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0



Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0



Band2 QPSK BW=20MHz Channel=18700 RB Size=100 Position=#0

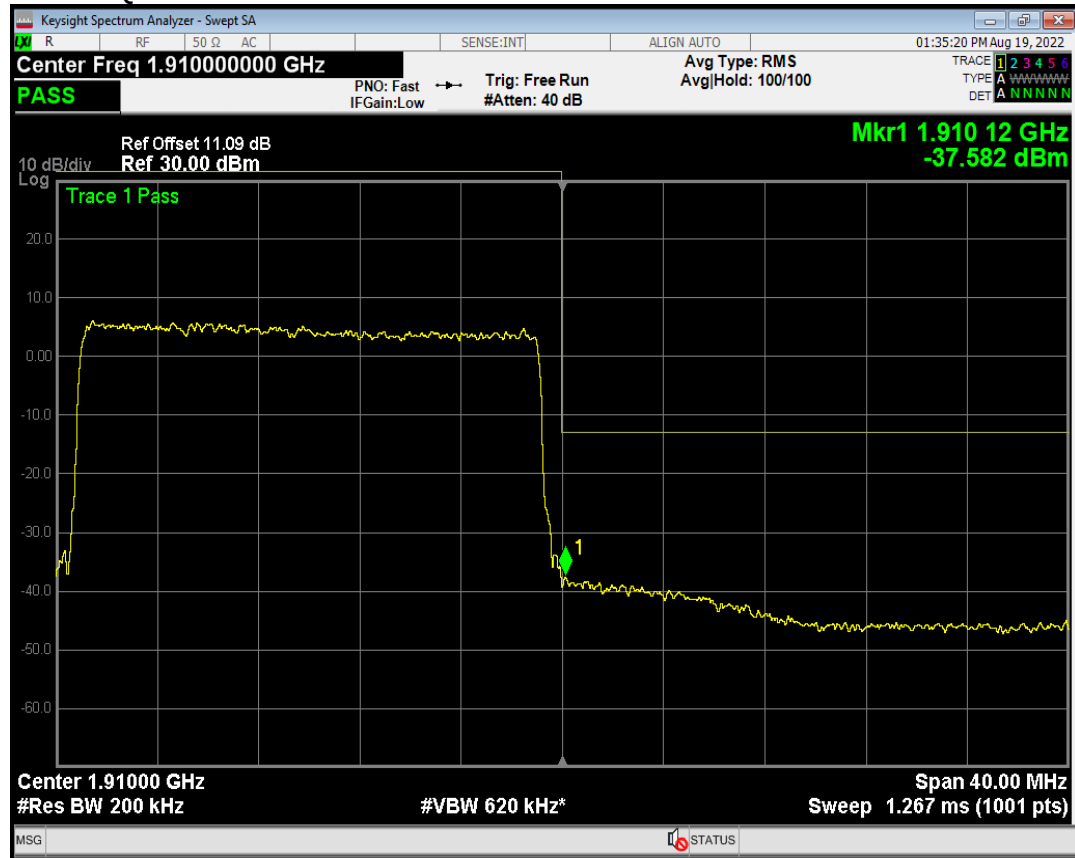


Band2 QPSK BW=15MHz Channel=19125 RB Size=75 Position=#0





Band2 QPSK BW=20MHz Channel=19100 RB Size=100 Position=#0



***** END *****