

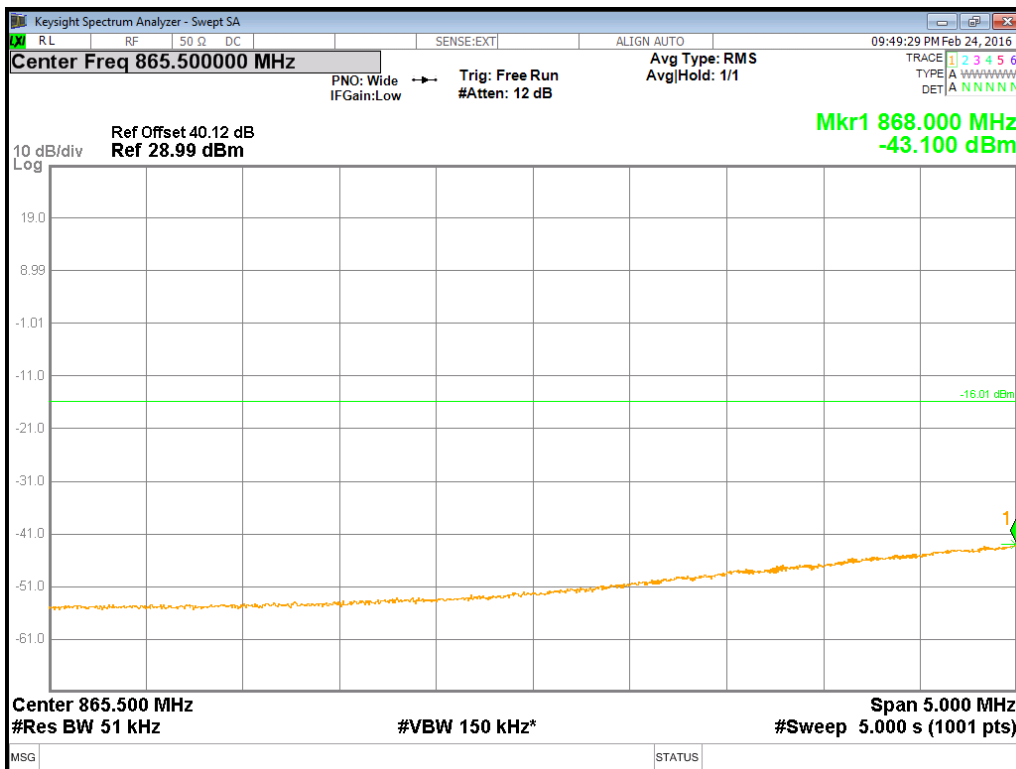
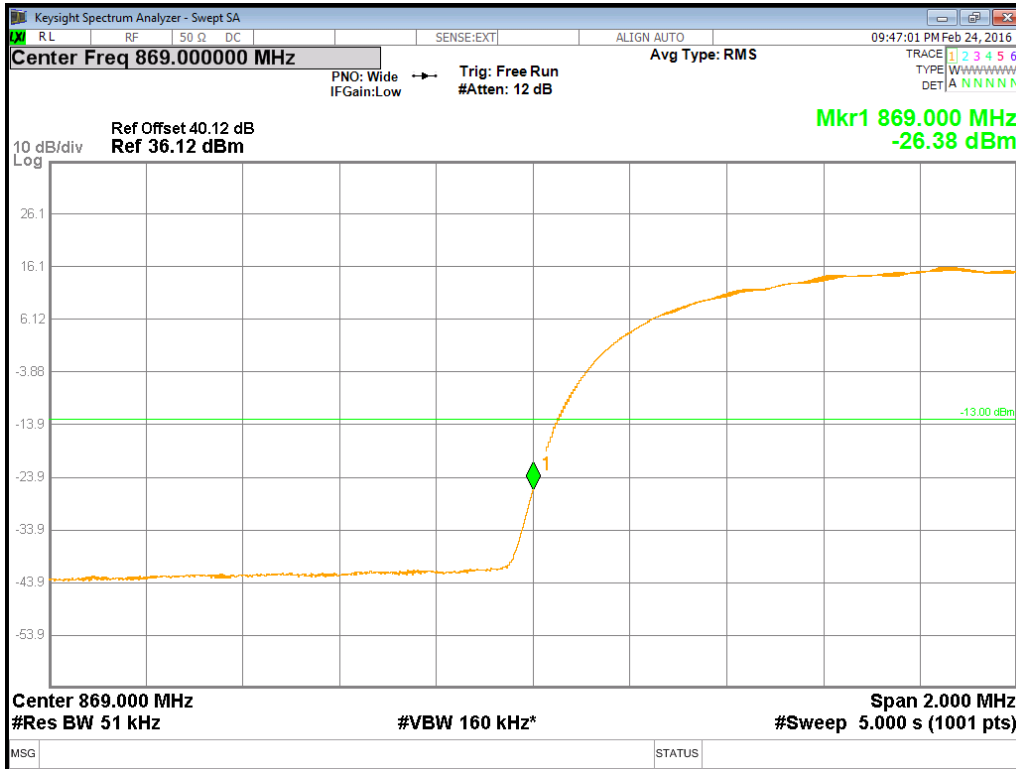
Configuration W-MC 1 (2C)

Maximum Output Power 37.0dBm per port

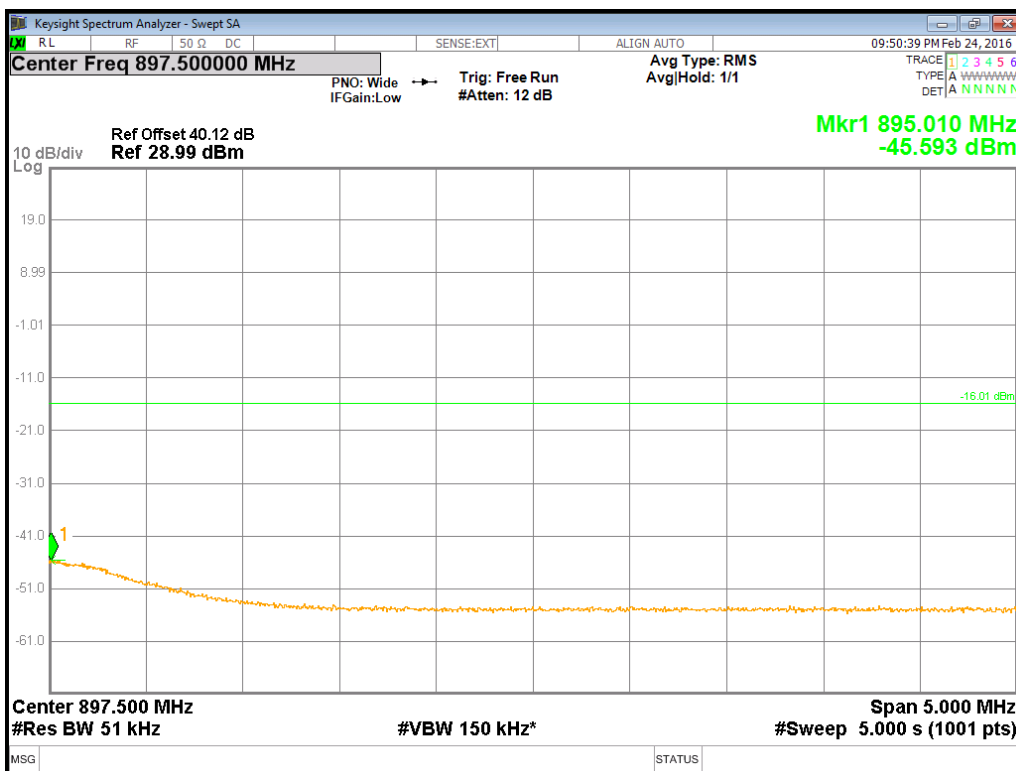
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	5.0 MHz	871.4MHz+876.4MHz	51	-13.0
Channel Position T _{RFBW} 894.0 MHz	5.0 MHz	891.6MHz+886.6MHz	51	-13.0

Note 1: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be made available to the end user.

Channel Position B_{RFBW} - QPSK / Bandwidth 5.0 MHz



Channel Position T_{RFBW} – QPSK / Bandwidth 5.0 MHz



Configuration W-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port

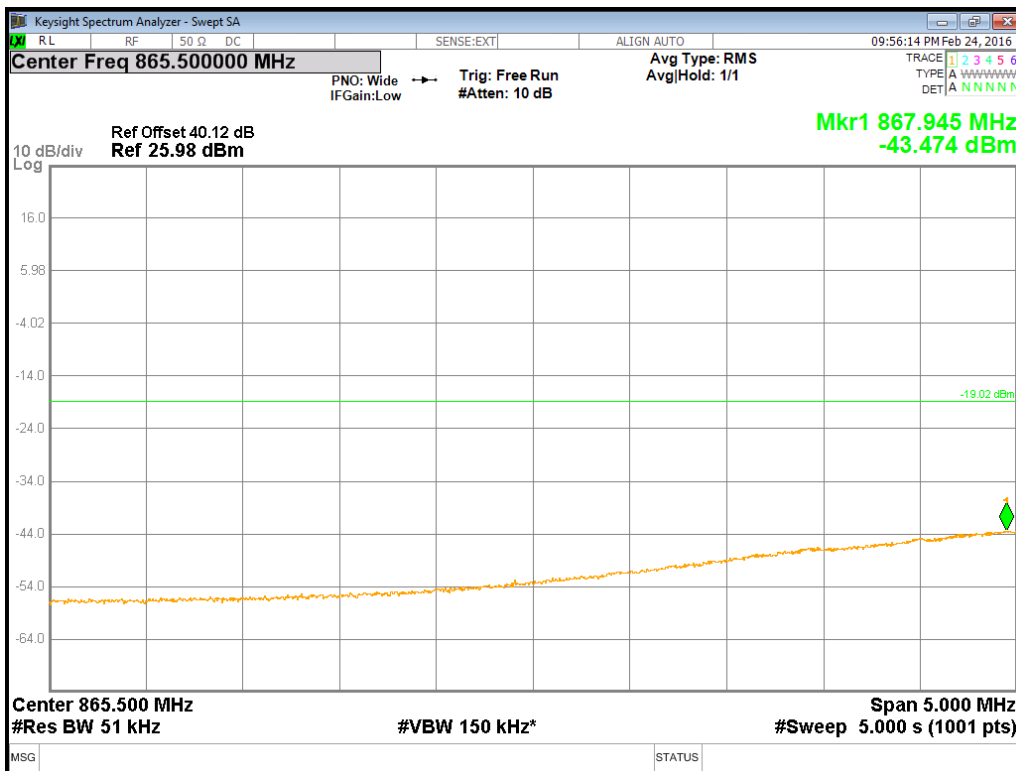
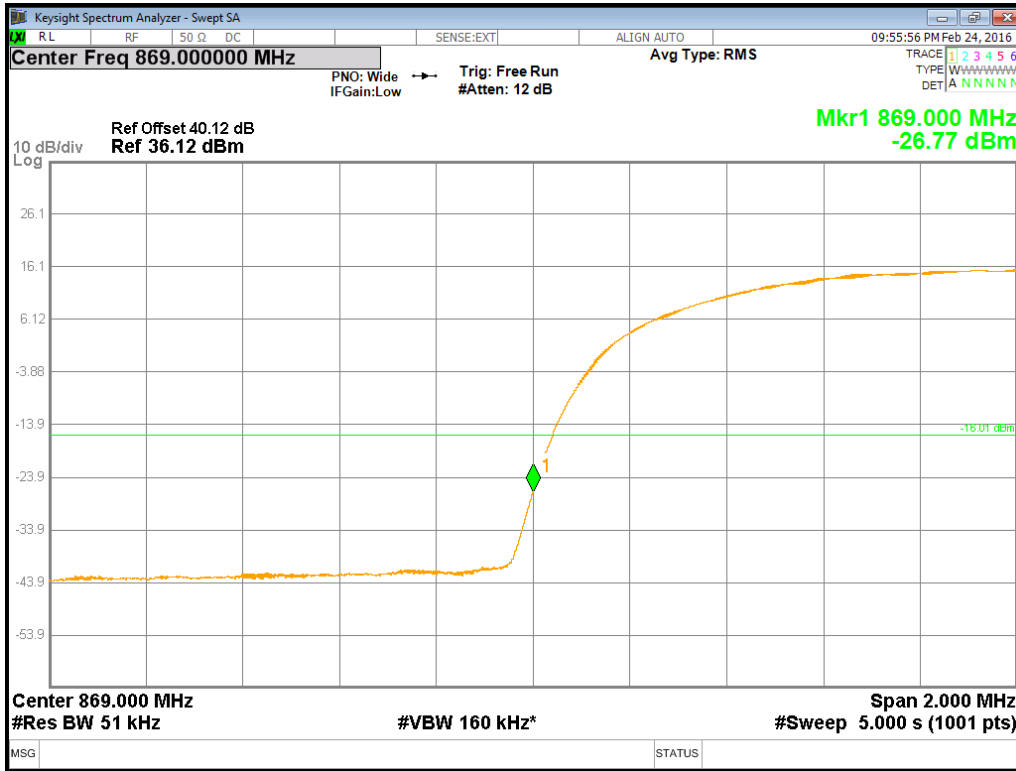
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation 16QAM Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	5.0 MHz	871.4MHz+876.4MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	5.0 MHz	886.6MHz+891.6MHz	51	-16.01

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation 64QAM Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	5.0 MHz	871.4MHz+876.4MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	5.0 MHz	886.6MHz+891.6MHz	51	-16.01

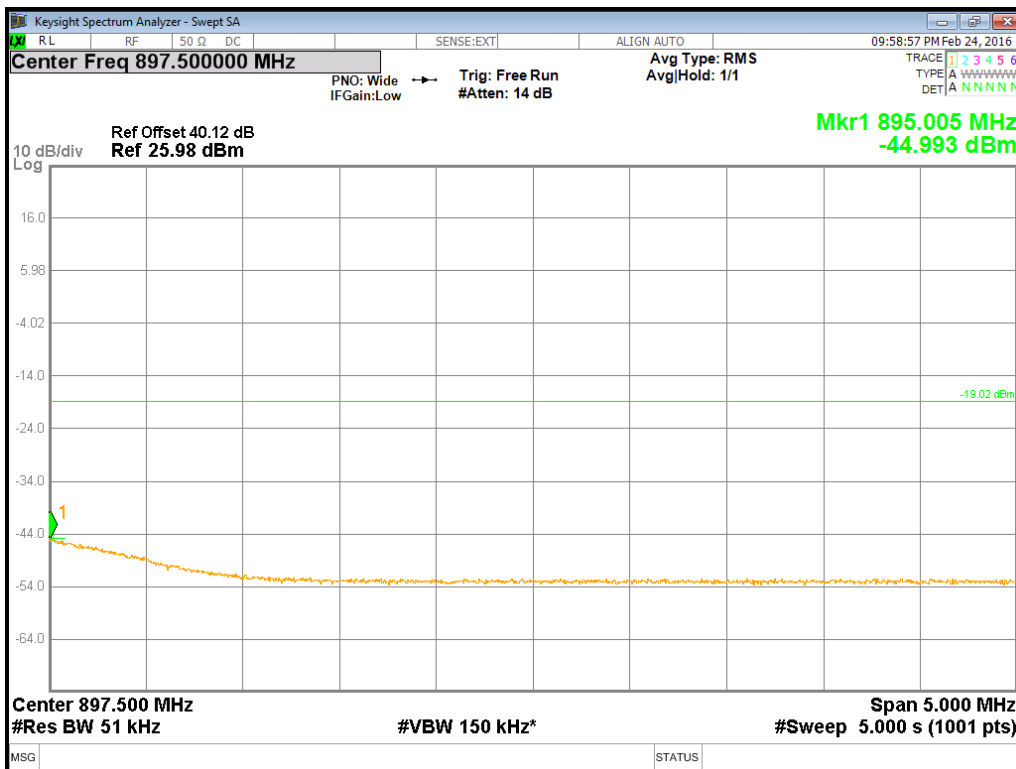
Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm.

Note 2: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be available to the end user.

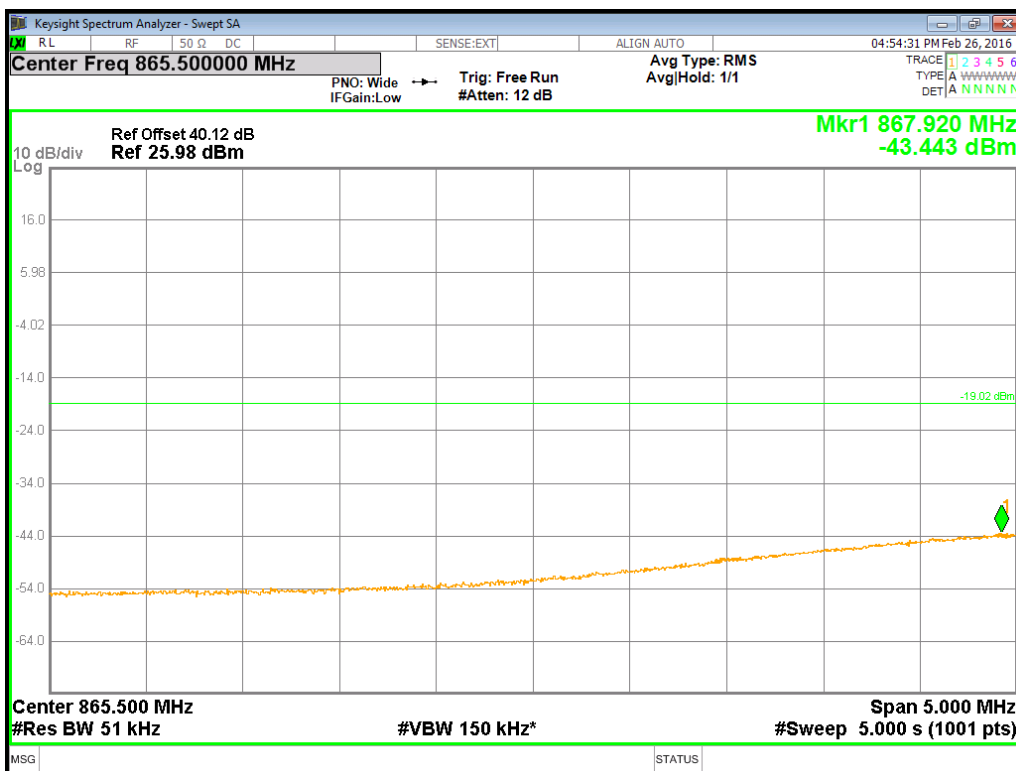
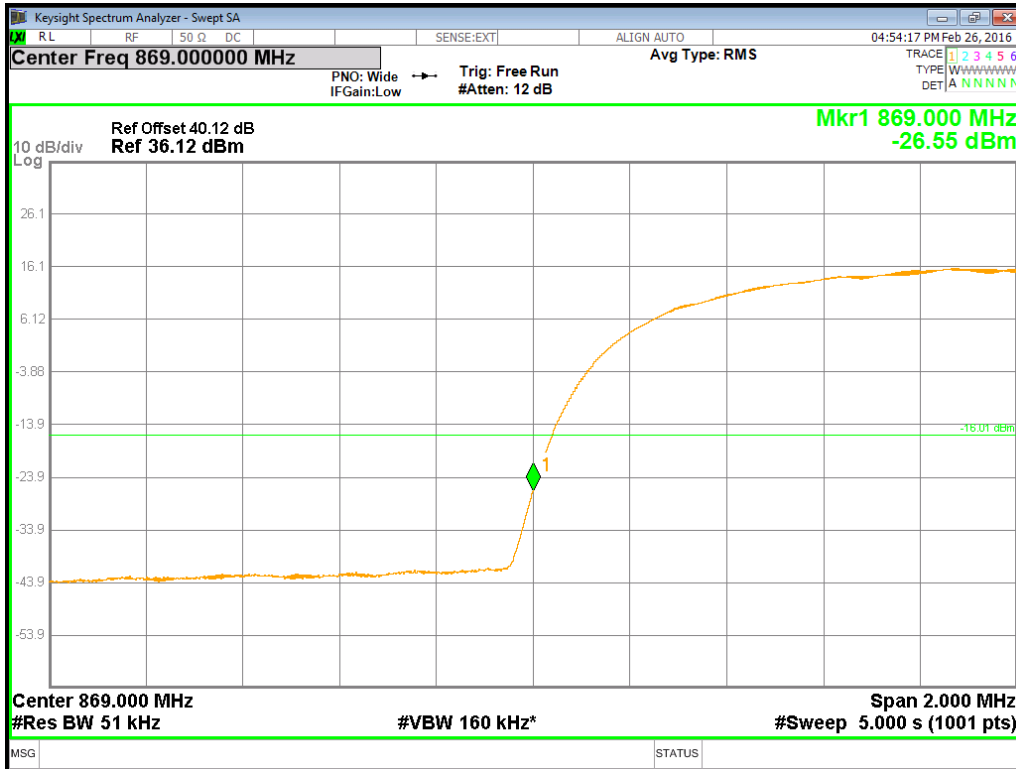
Channel Position B_{RFBW} - 16QAM / Bandwidth 5.0 MHz



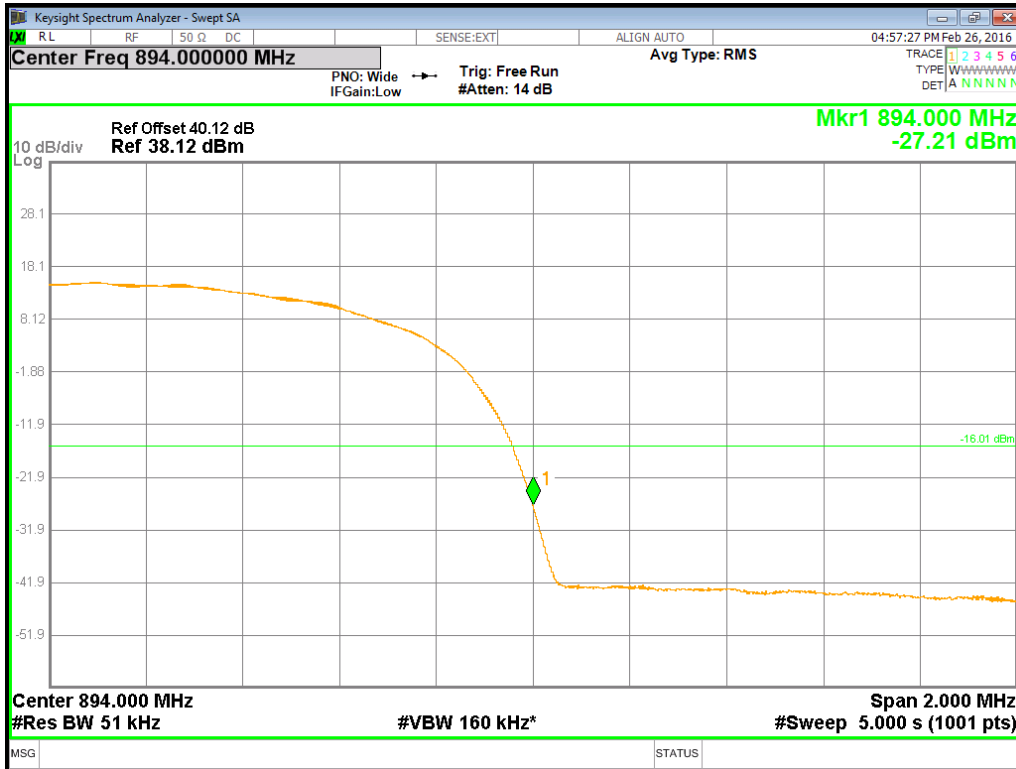
Channel Position T_{RFBW} - 16QAM / Bandwidth 5.0 MHz



Channel Position B_{RFBW} - 64QAM / Bandwidth 5.0 MHz



Channel Position T_{RFBW} - 64QAM / Bandwidth 5.0 MHz



Configuration L-MIMO-SC

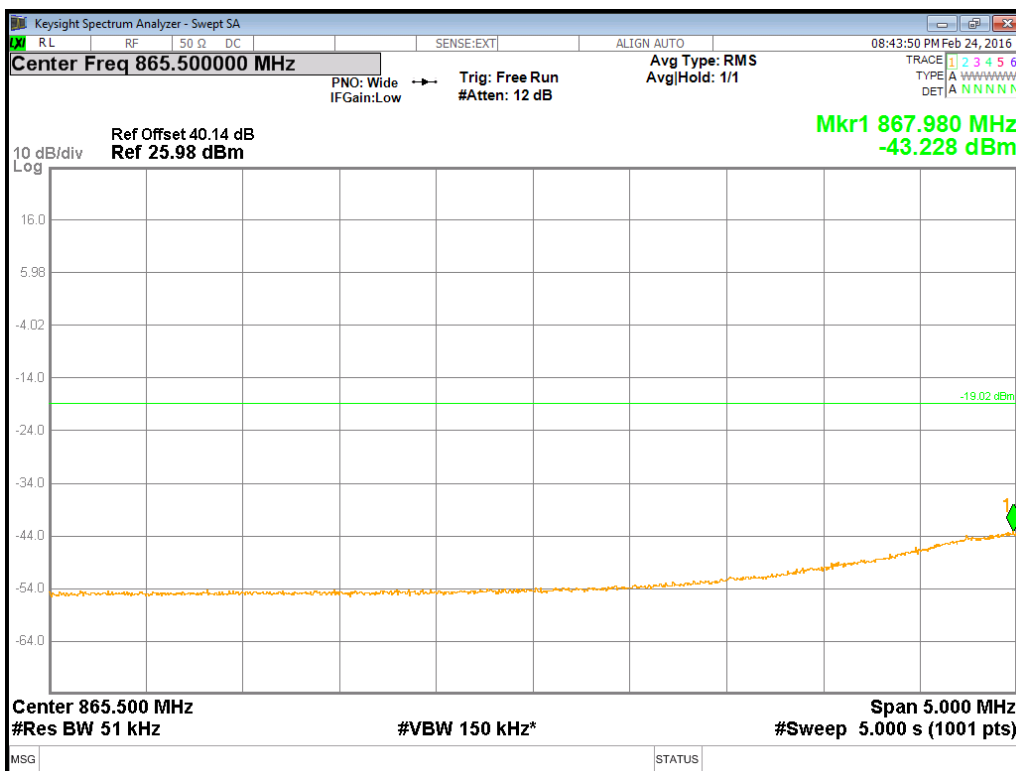
Maximum Output Power 37.0dBm per port

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B 869.0 MHz	1.4 MHz	869.7MHz	13	-16.01
	3.0 MHz	870.5MHz	30	-16.01
	5.0 MHz	871.5MHz	51	-16.01
	10.0 MHz	874.0MHz	100	-16.01
Channel Position T 894.0 MHz	1.4 MHz	893.3MHz	13	-16.01
	3.0 MHz	892.5MHz	30	-16.01
	5.0 MHz	891.5MHz	51	-16.01
	10.0 MHz	889.0MHz	100	-16.01

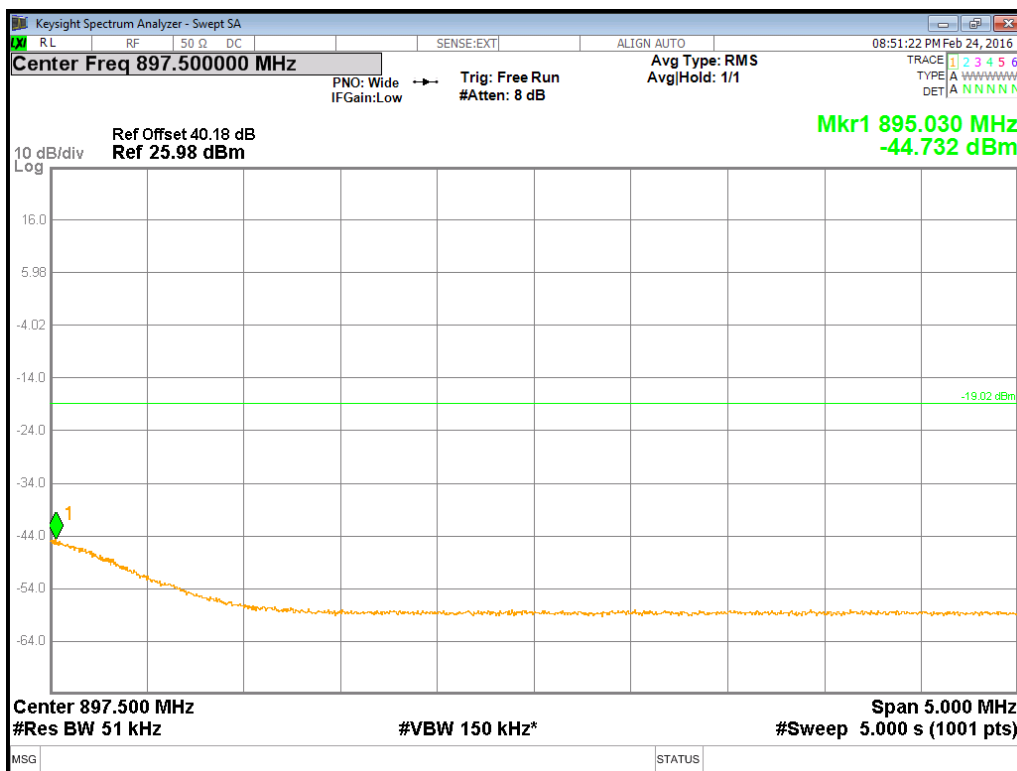
Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm.

Note 2: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be made available to the end user.

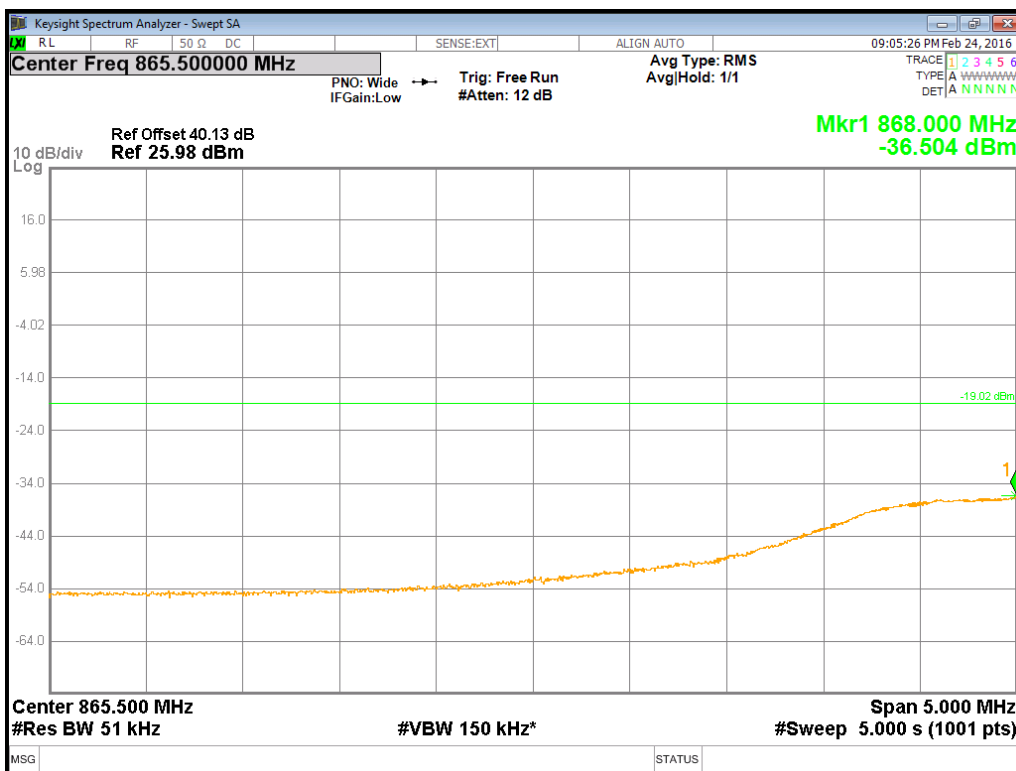
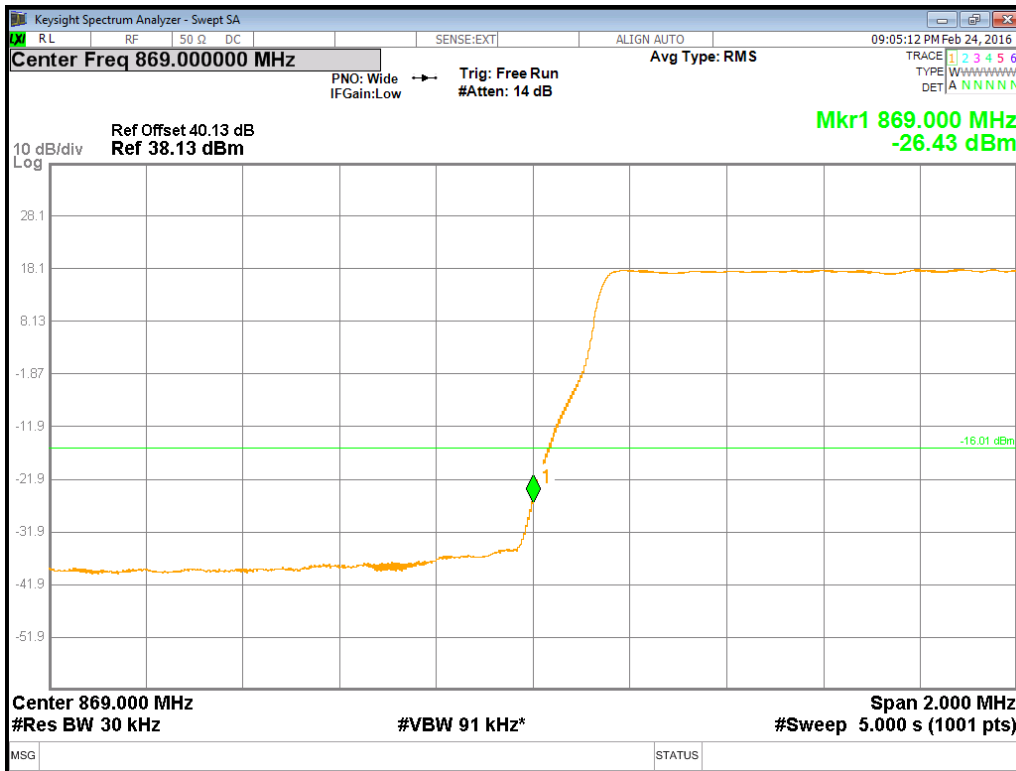
Channel Position B - QPSK / Bandwidth 1.4 MHz



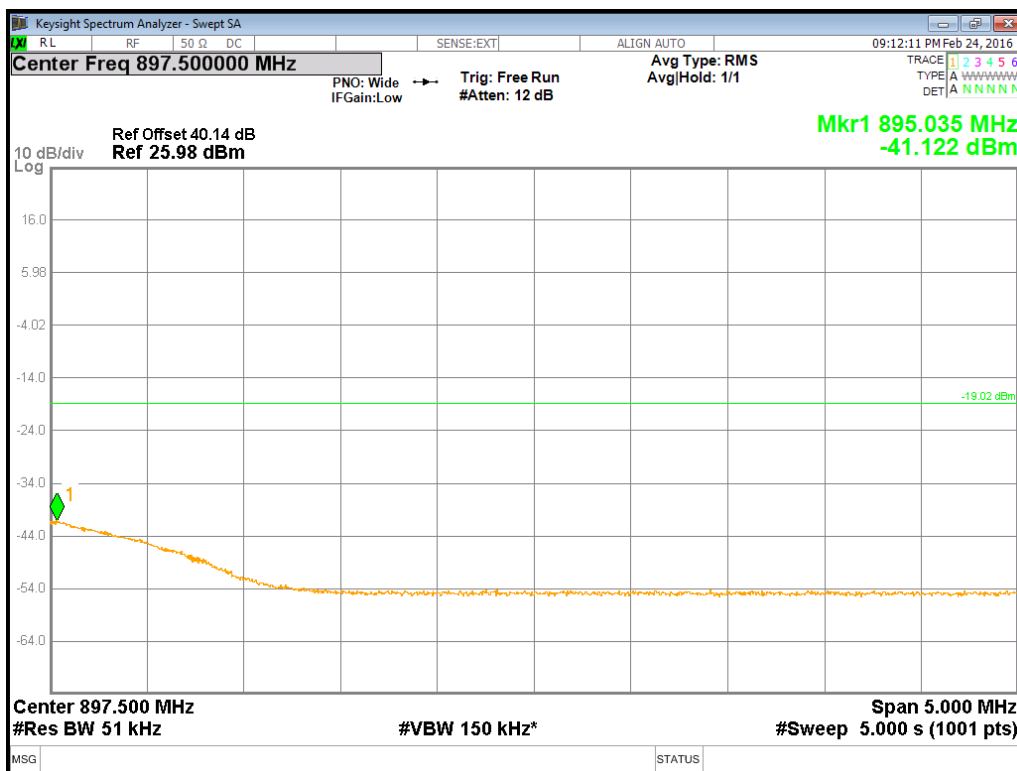
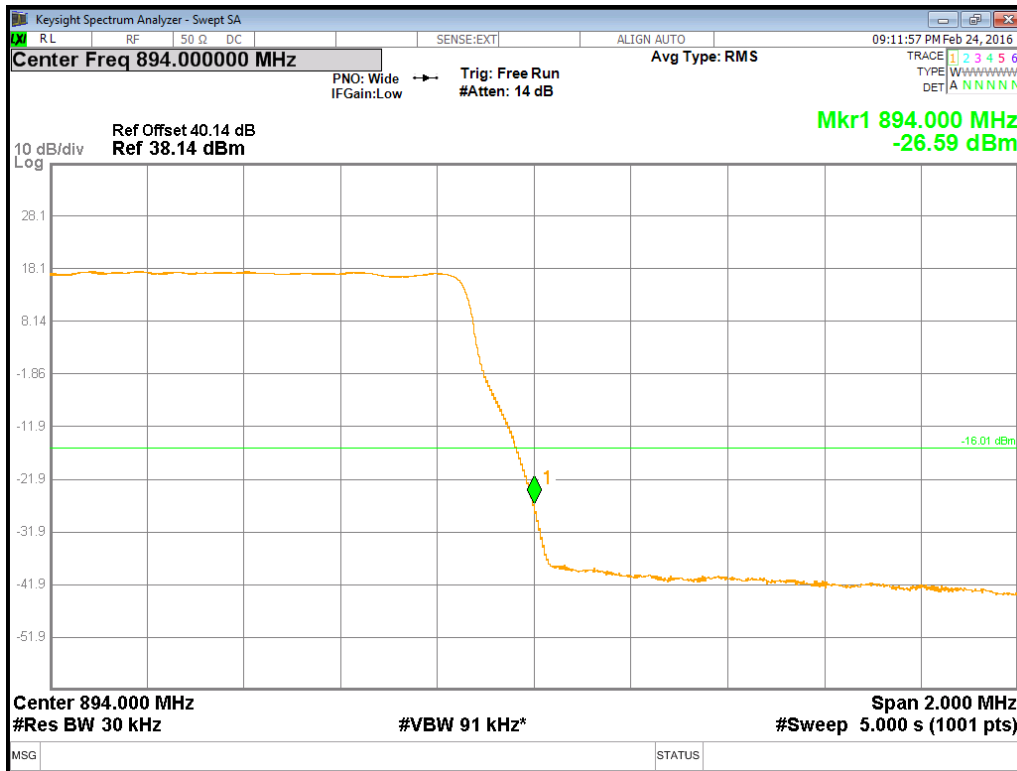
Channel Position T - QPSK / Bandwidth 1.4 MHz



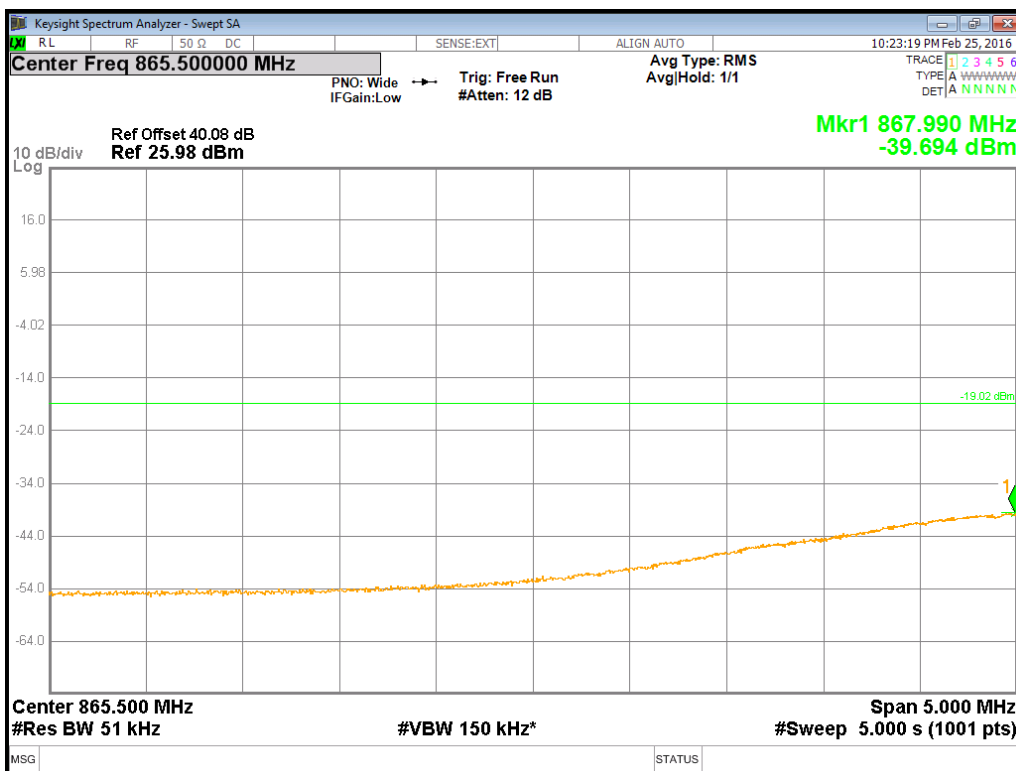
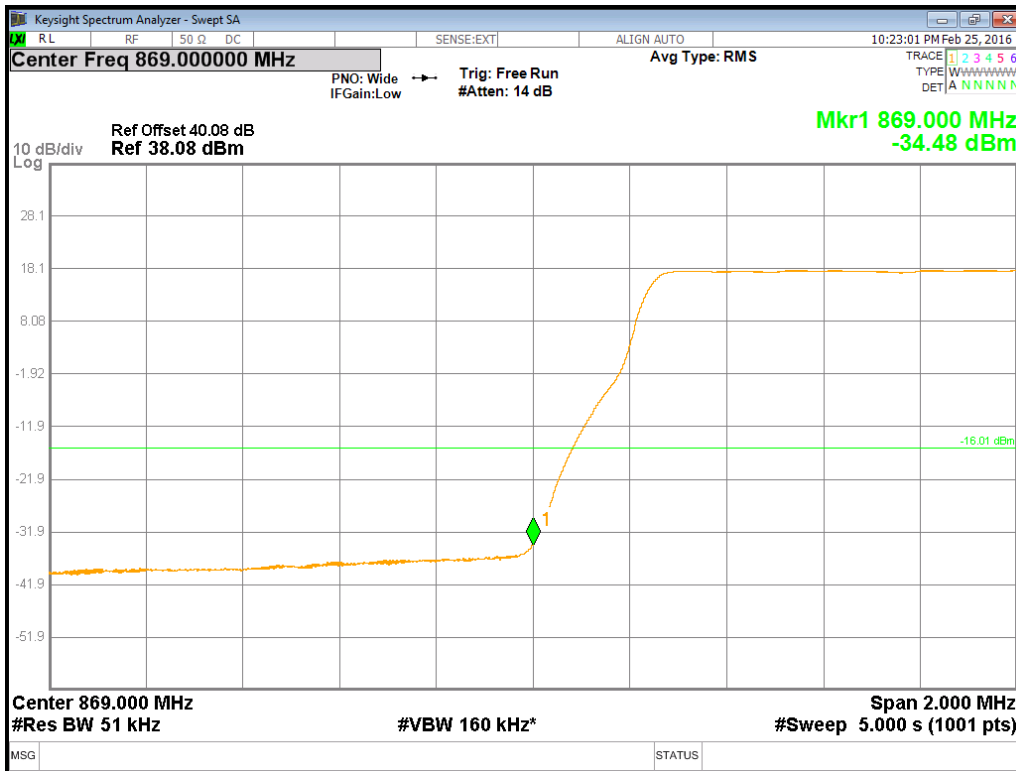
Channel Position B - QPSK / Bandwidth 3.0 MHz



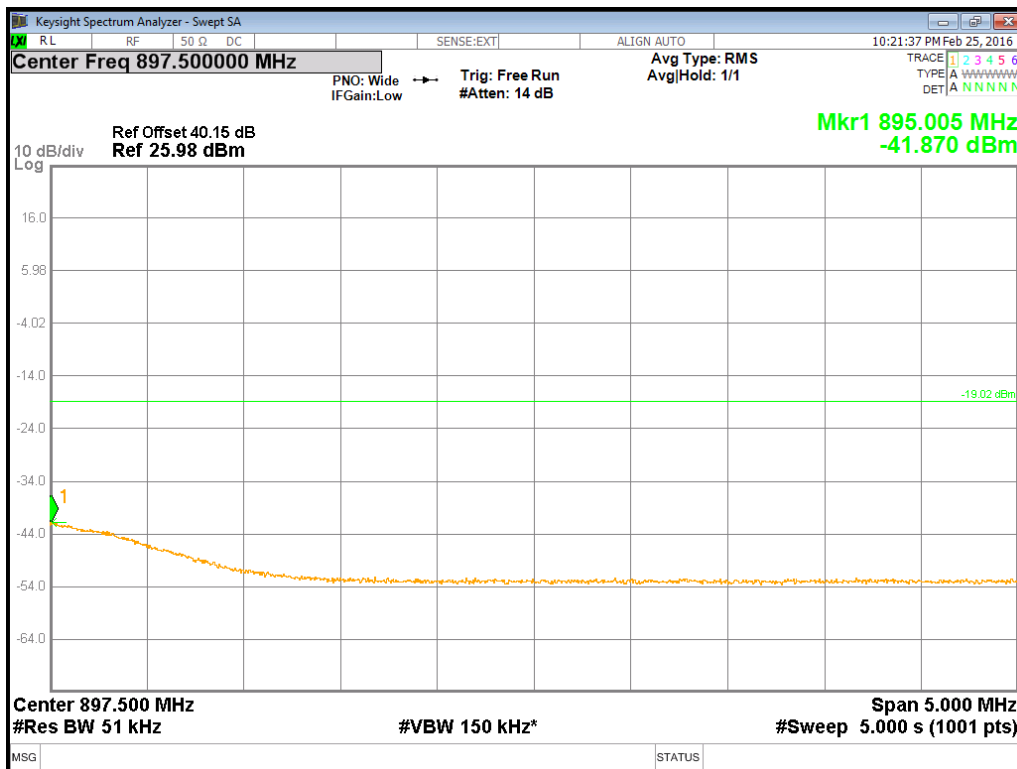
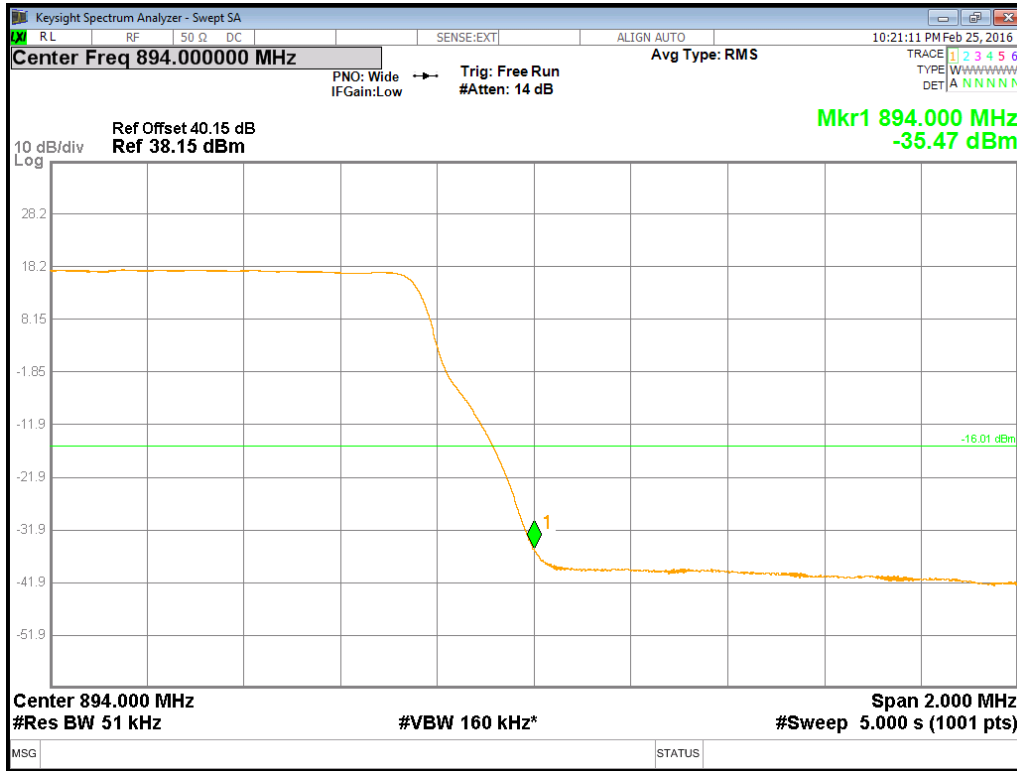
Channel Position T - QPSK / Bandwidth 3.0 MHz



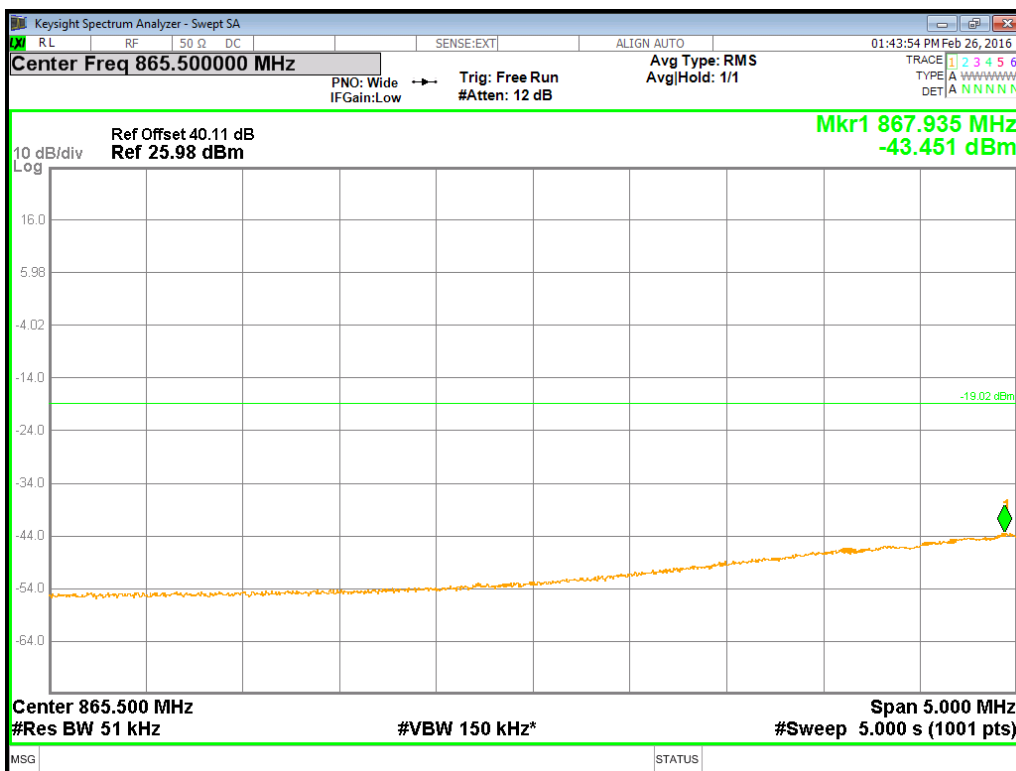
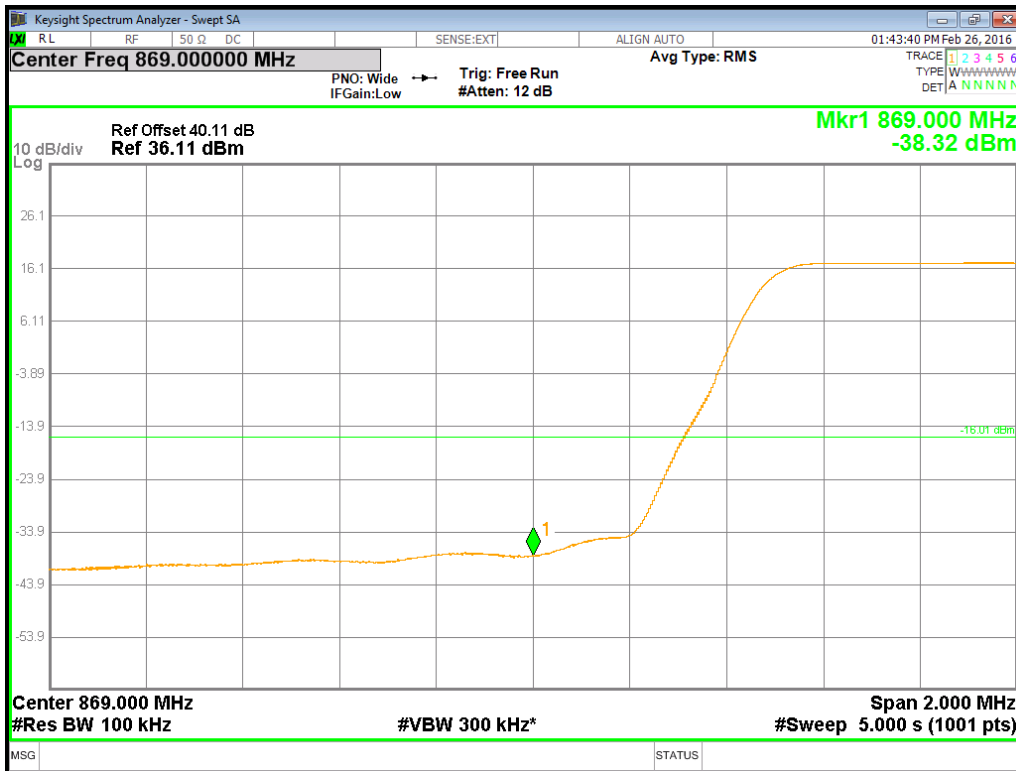
Channel Position B - QPSK / Bandwidth 5.0 MHz



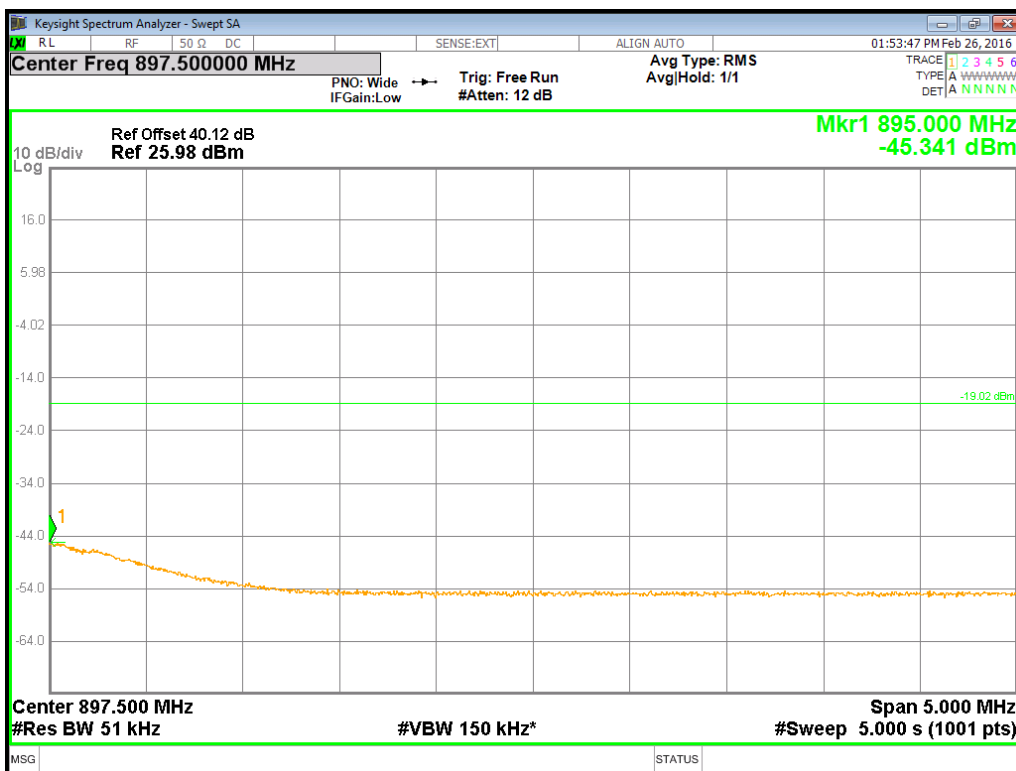
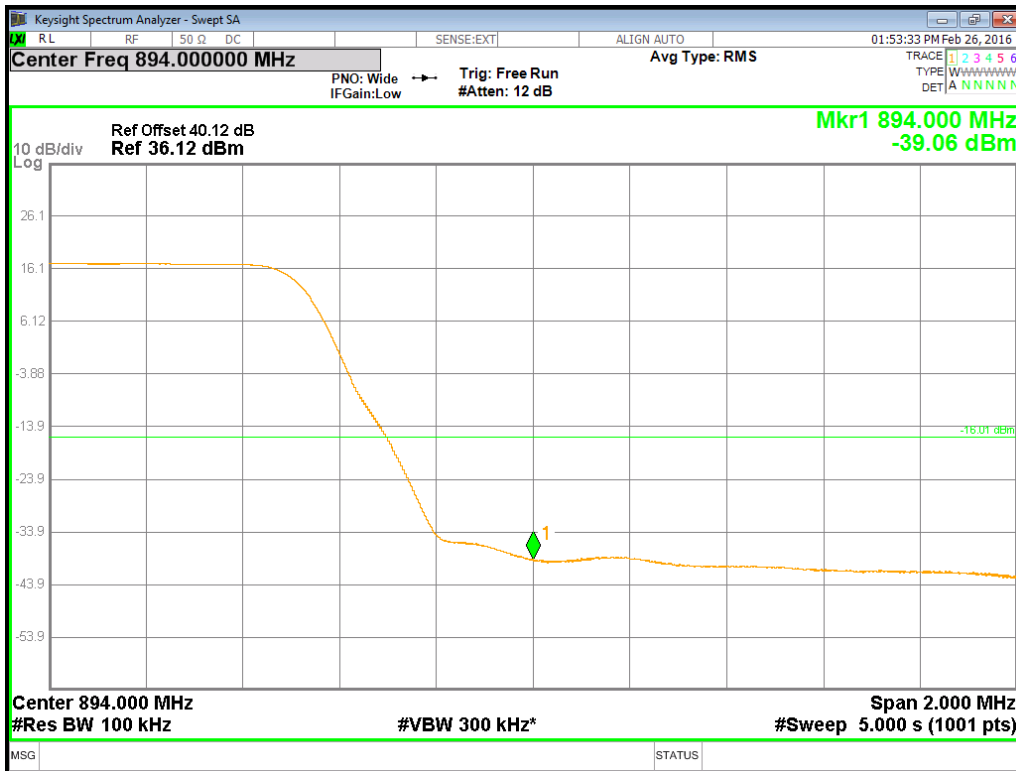
Channel Position T - QPSK / Bandwidth 5.0 MHz



Channel Position B - QPSK / Bandwidth 10.0 MHz



Channel Position T - QPSK / Bandwidth 10.0 MHz



Configuration L-MIMO-MC 1 (2C)

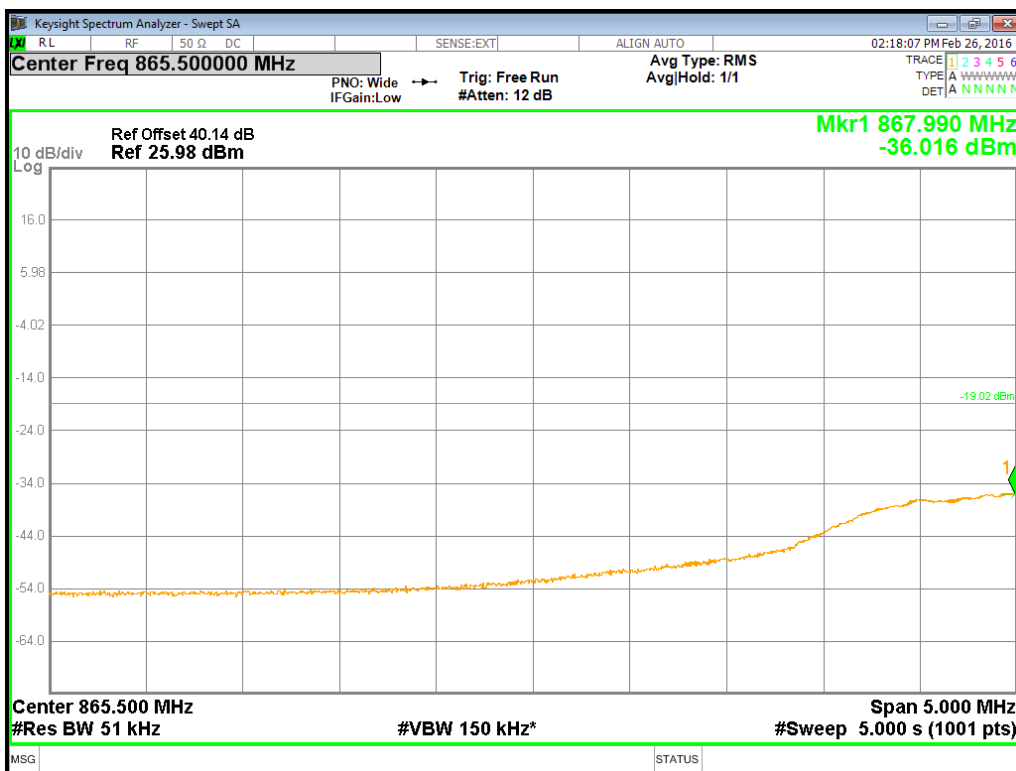
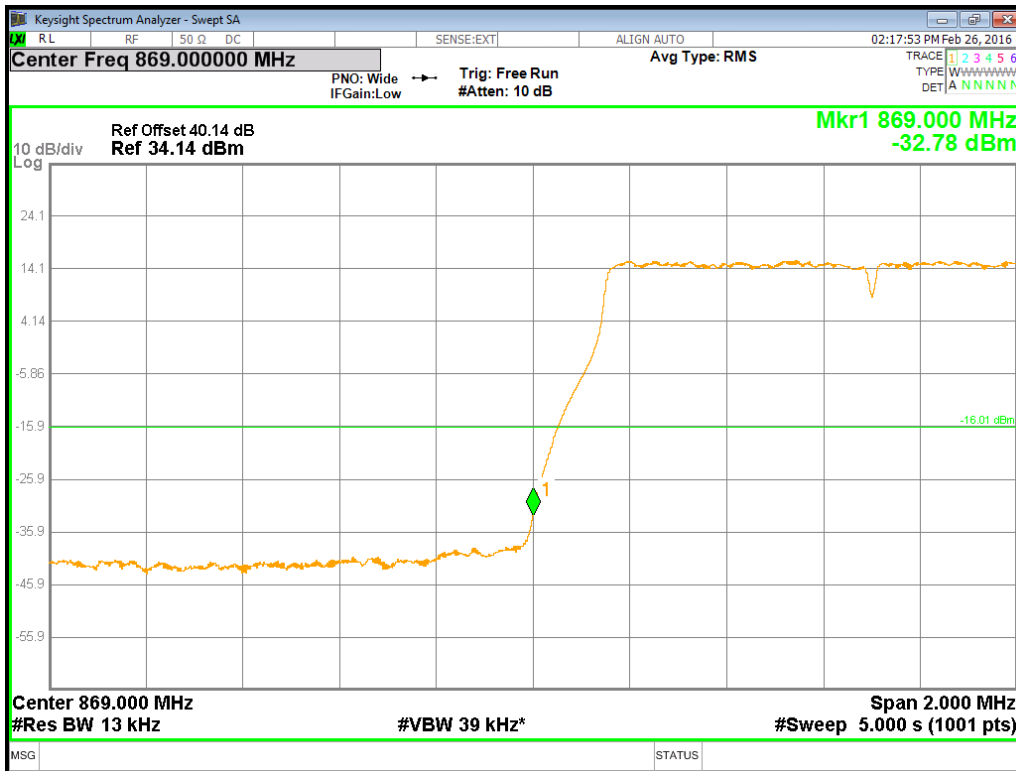
Maximum Output Power 37.0dBm per port

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	1.4 MHz	869.7MHz + 871.1MHz	13	-16.01
	3.0 MHz	870.5MHz + 873.5MHz	30	-16.01
	5.0 MHz	871.5MHz + 876.5MHz	51	-16.01
	10.0 MHz	874.0MHz + 884.0MHz	100	-16.01
Channel Position T _{RFBW} 894.0 MHz	1.4 MHz	891.9MHz + 893.3MHz	13	-16.01
	3.0 MHz	889.5MHz + 892.5MHz	30	-16.01
	5.0 MHz	886.5MHz + 891.5MHz	51	-16.01
	10.0 MHz	879.0MHz + 889.0MHz	100	-16.01

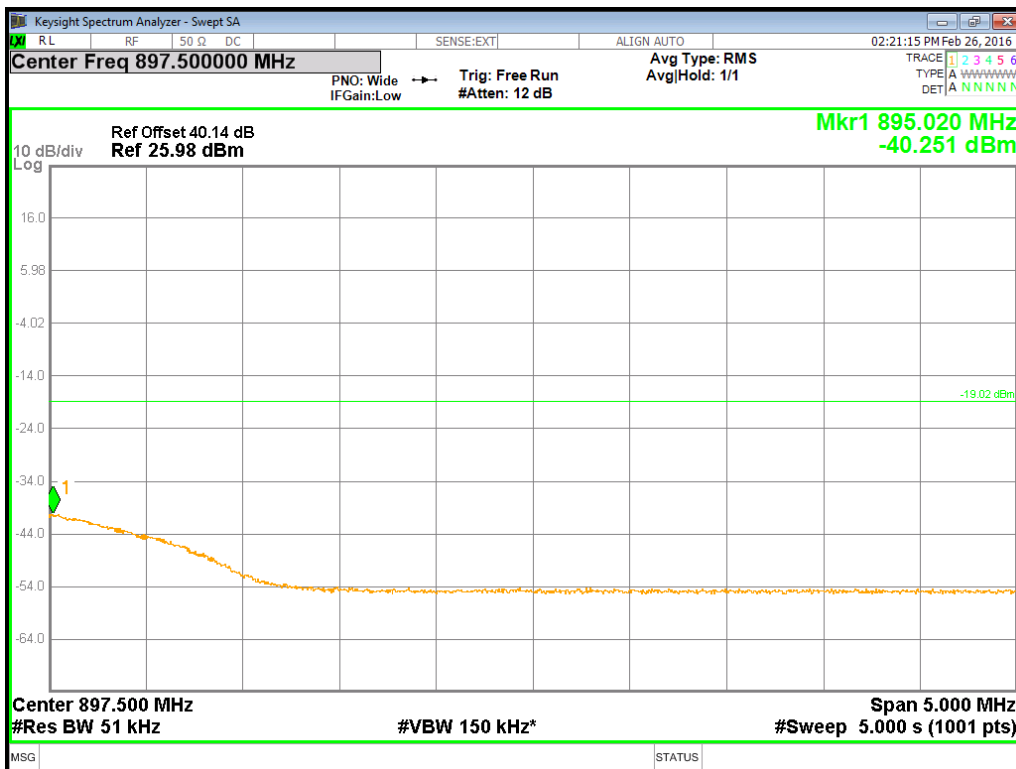
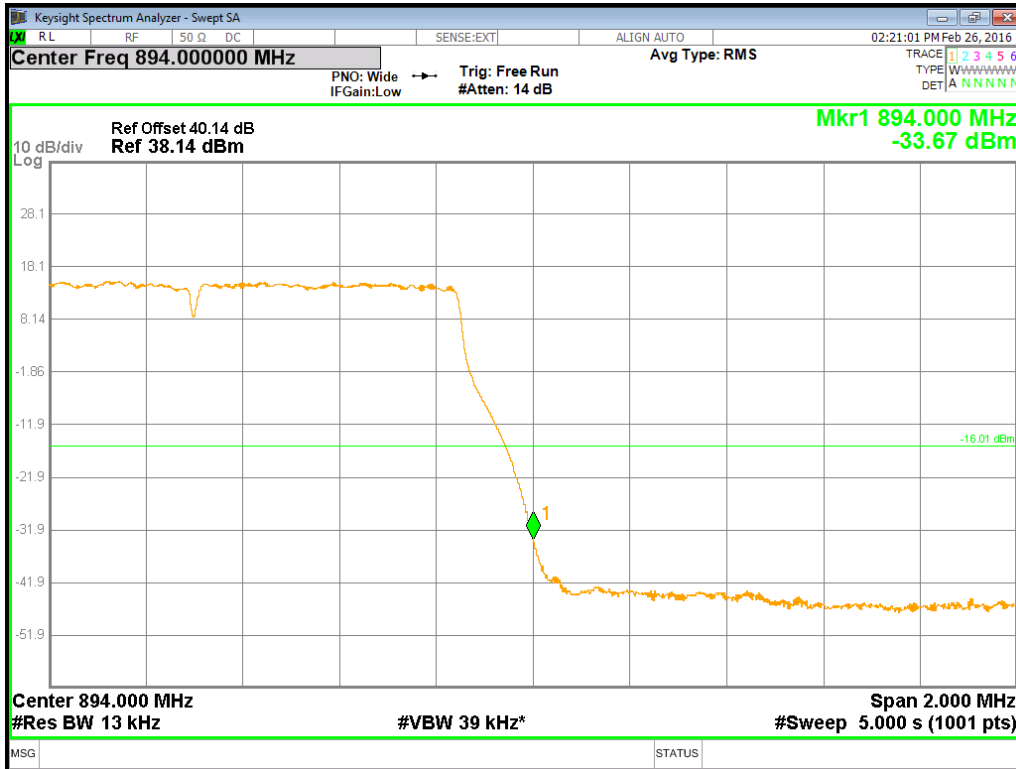
Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm.

Note 2: The channels shown in the table above are the minimum and maximum channels that can be used in the authorised frequency ranges to maintain compliance. Channels outside of the ranges shown in the above tables shall not be available to the end user.

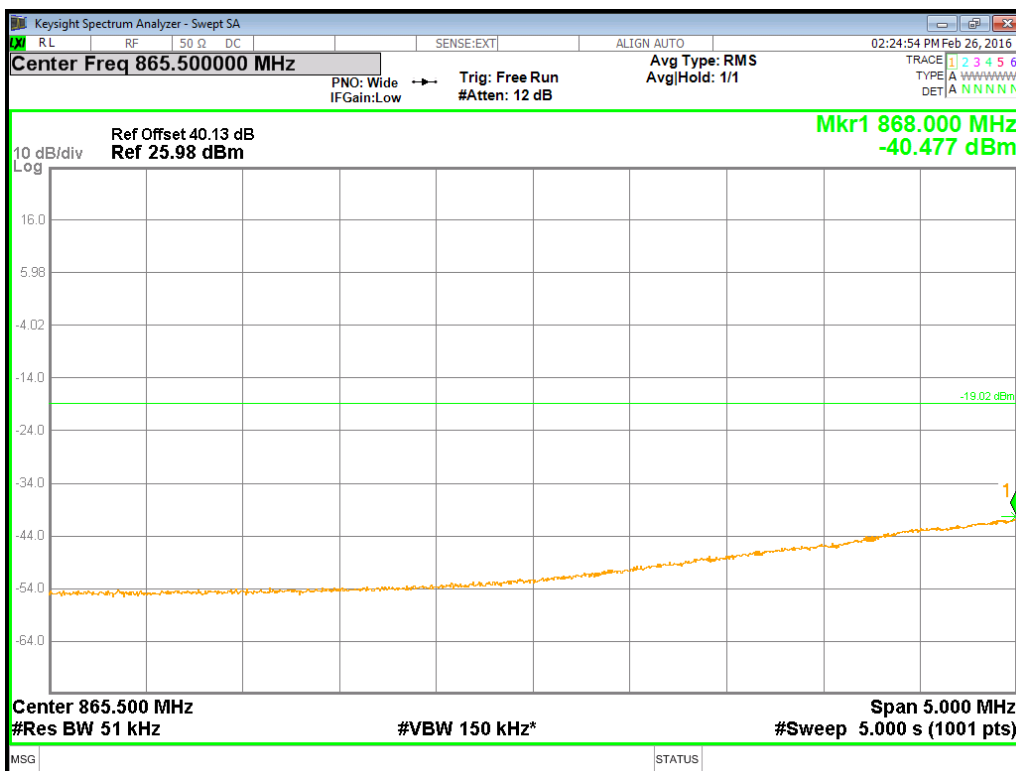
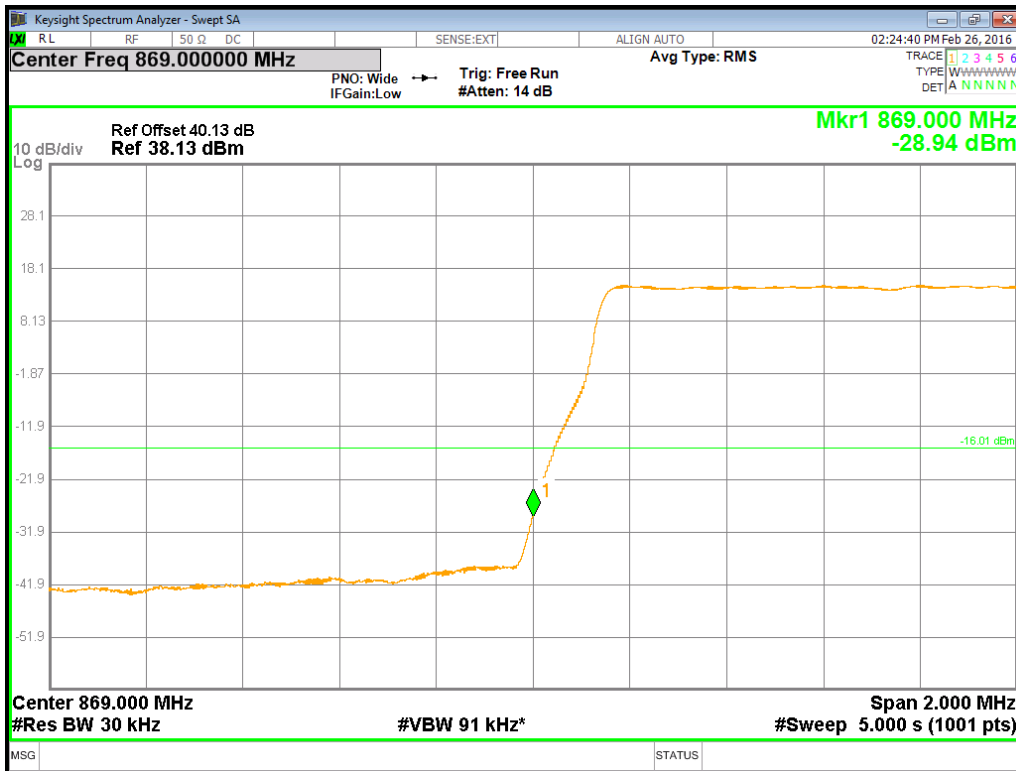
Channel Position B_{RFBW} - QPSK / Bandwidth 1.4 MHz



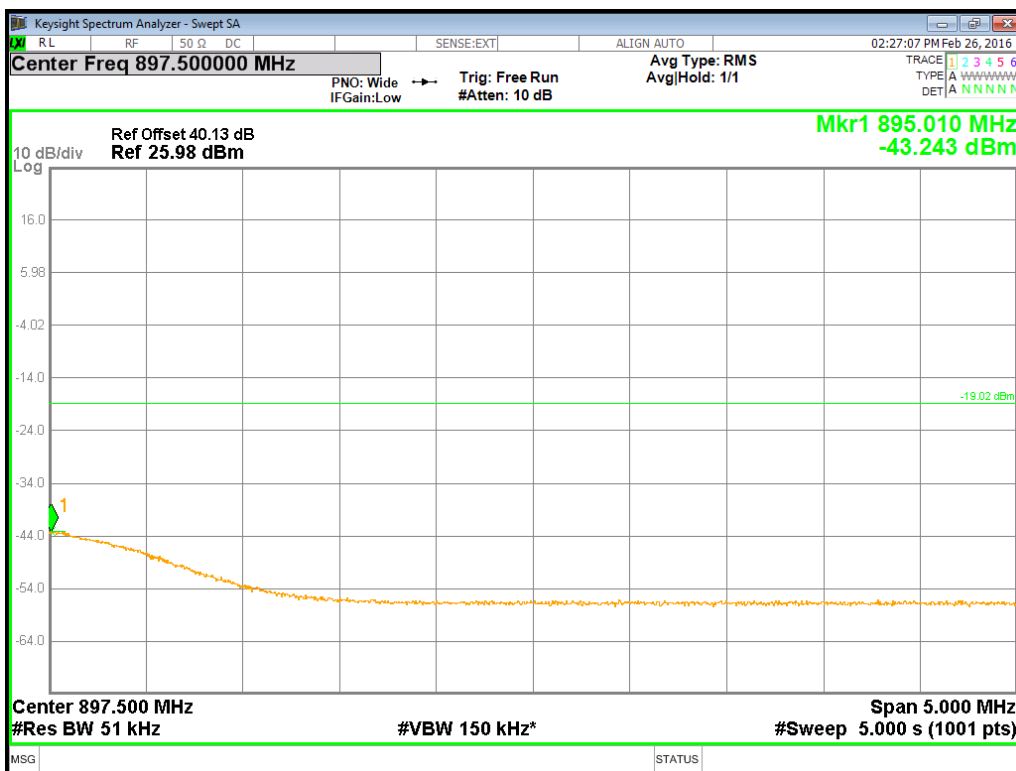
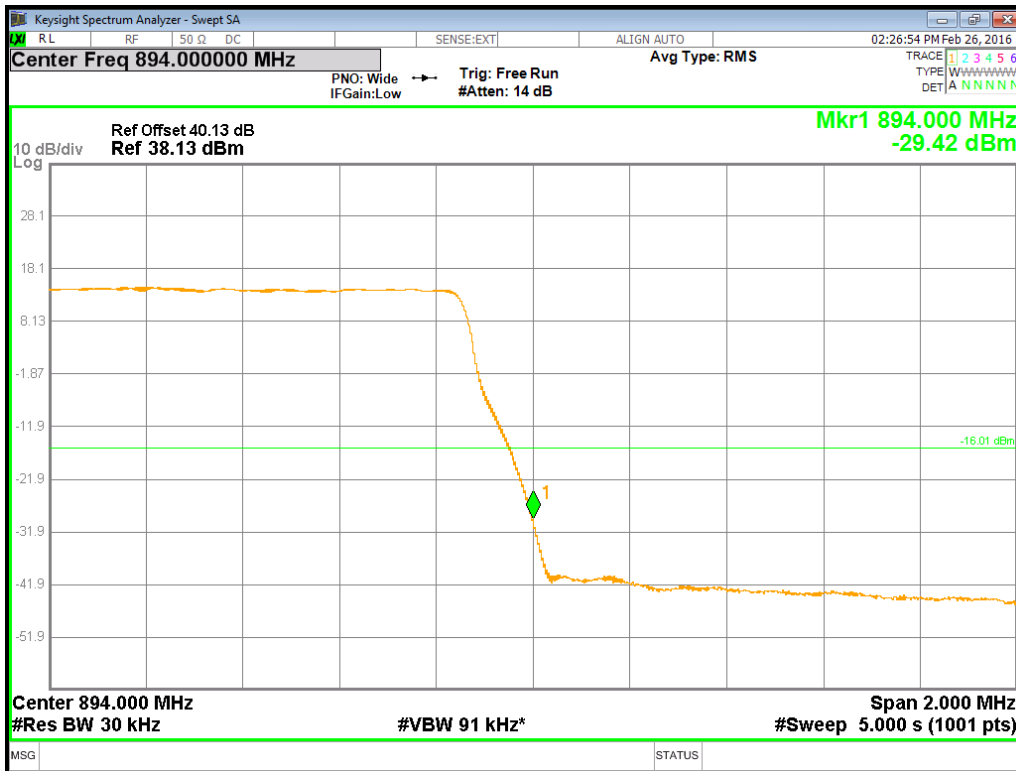
Channel Position T_{RFBW} - QPSK / Bandwidth 1.4 MHz



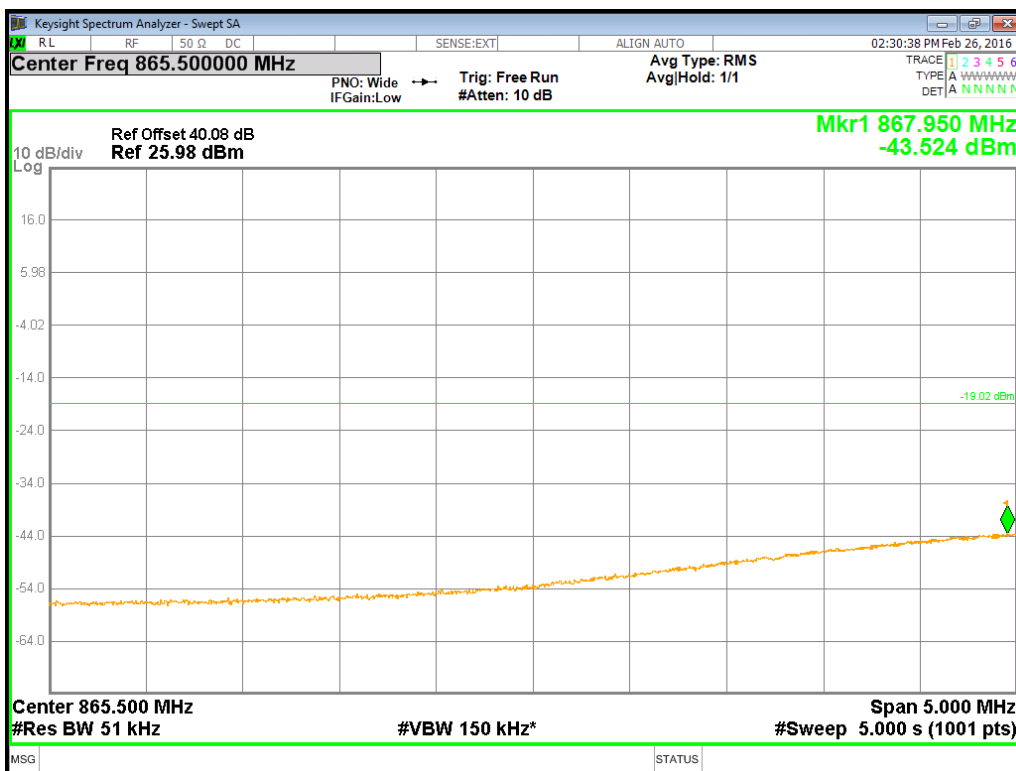
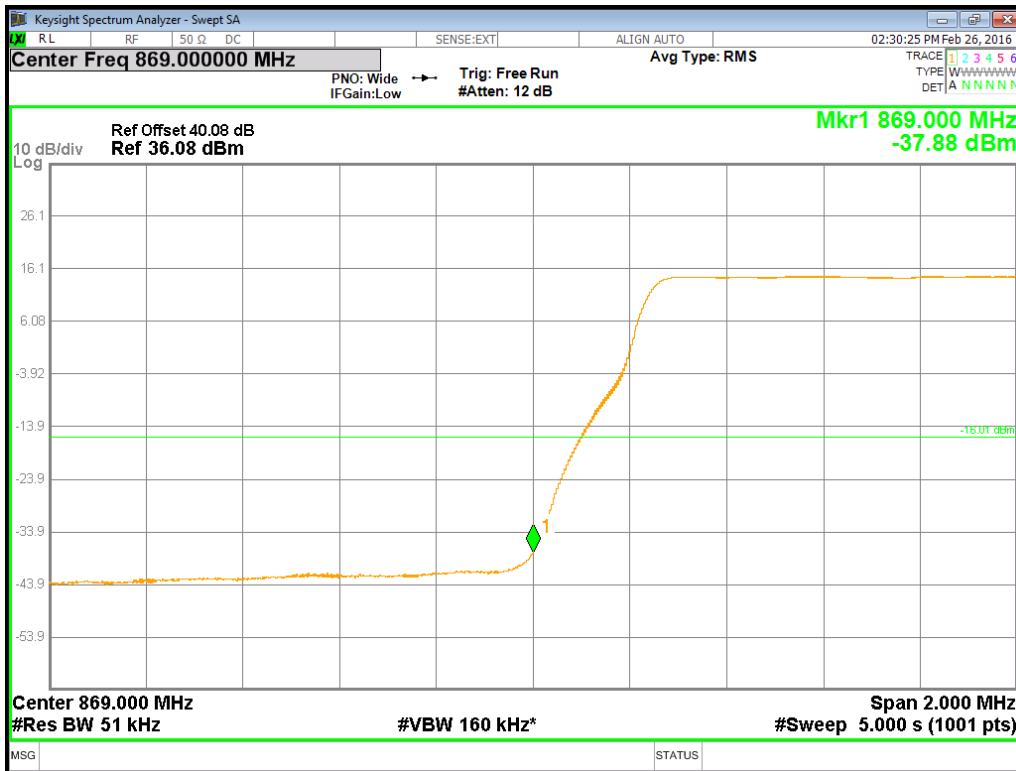
Channel Position B_{RFBW} - QPSK / Bandwidth 3.0 MHz



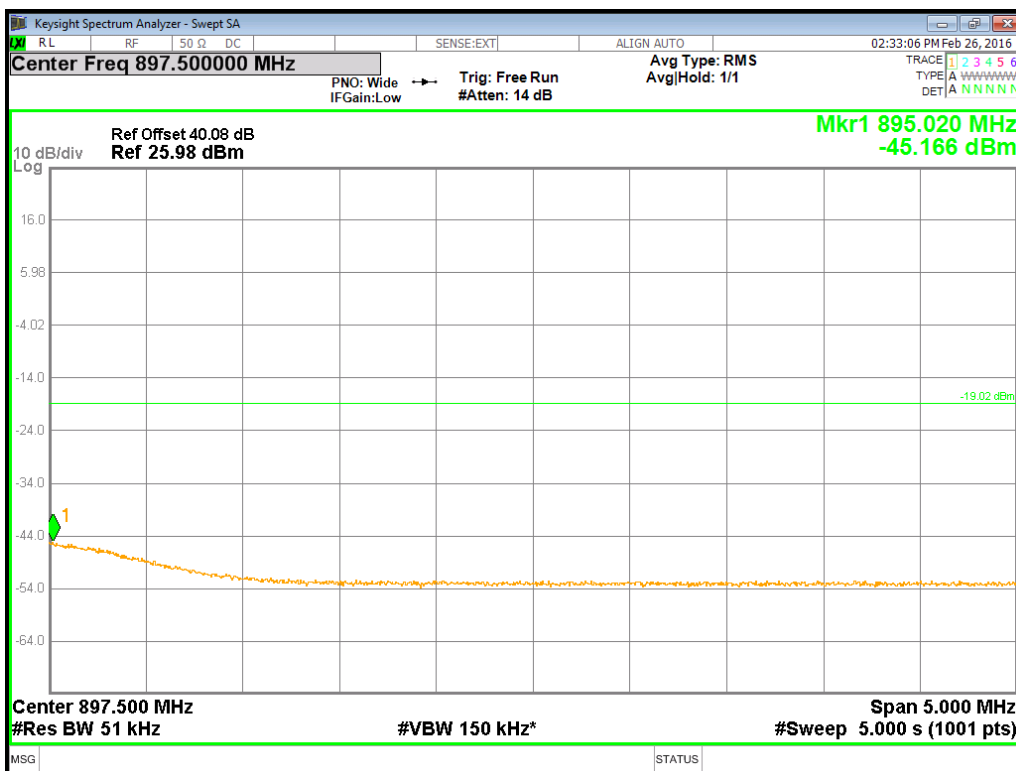
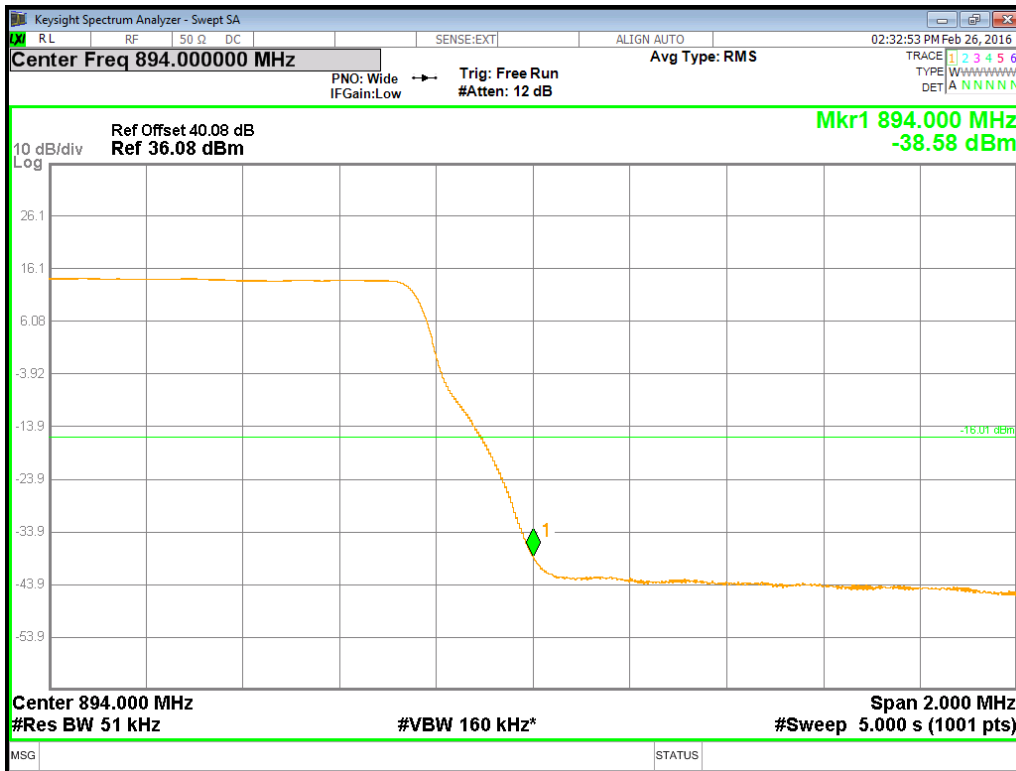
Channel Position T_{RFBW} - QPSK / Bandwidth 3.0 MHz



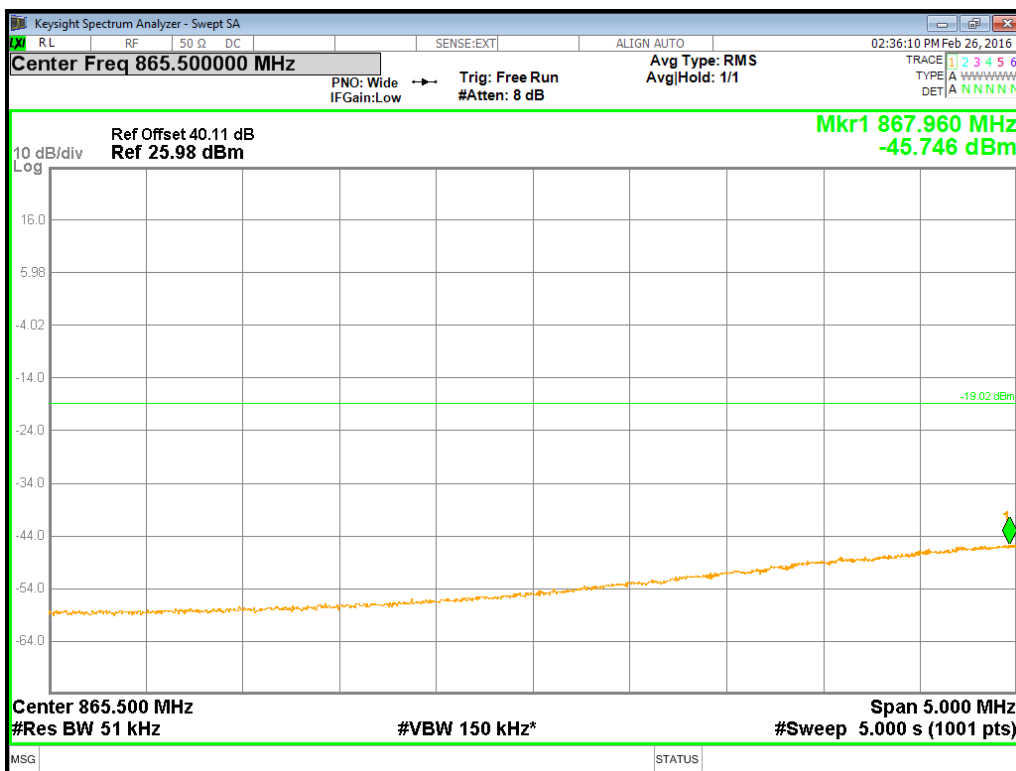
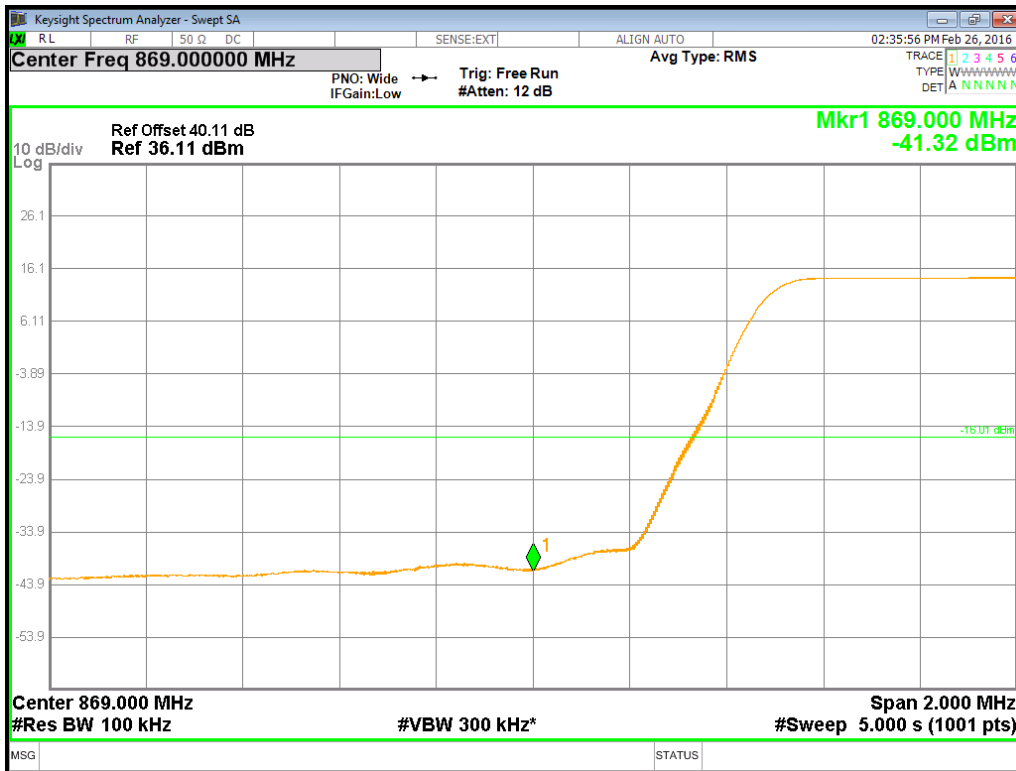
Channel Position B_{RFBW} - QPSK / Bandwidth 5.0 MHz



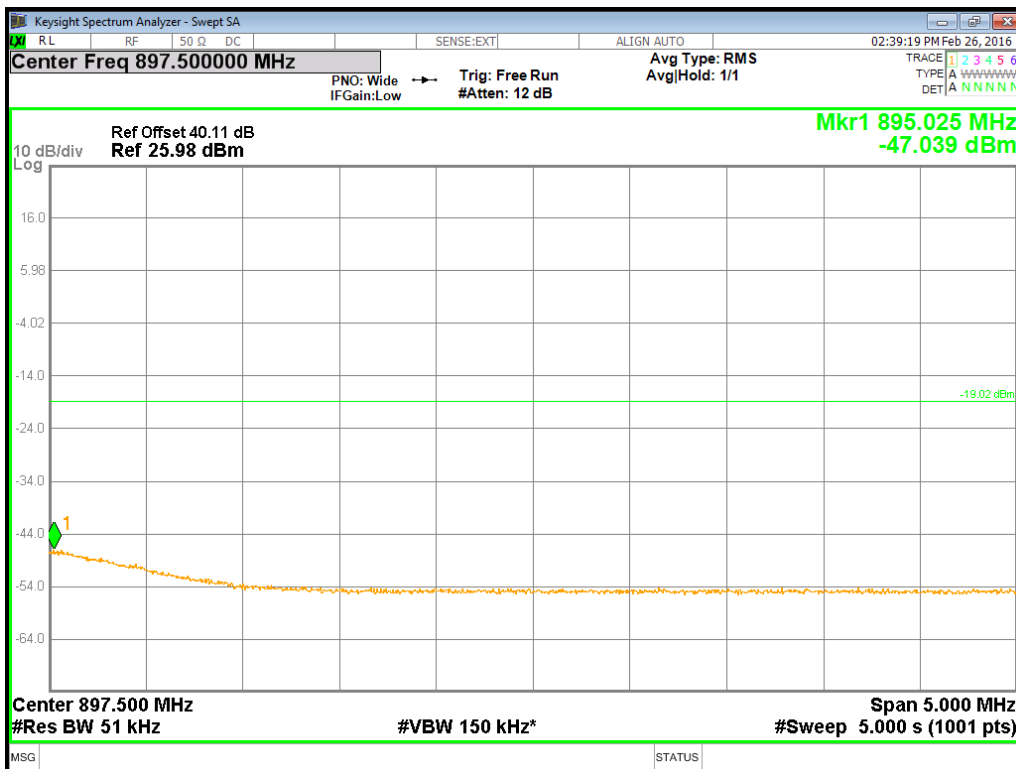
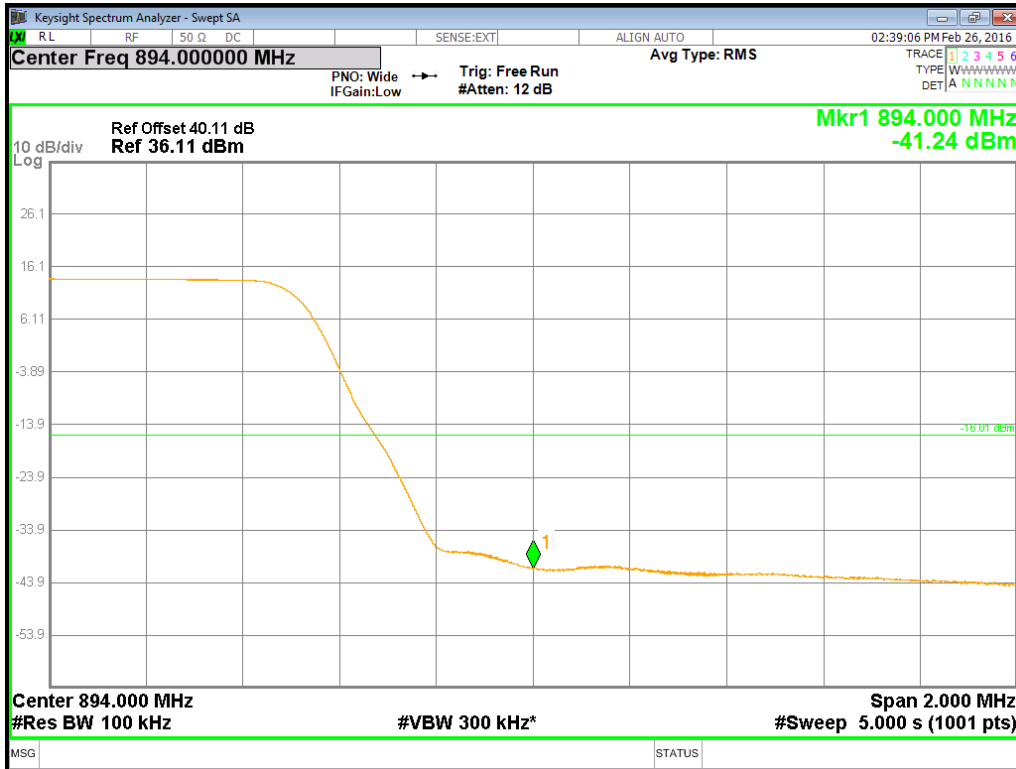
Channel Position T_{RFBW} - QPSK / Bandwidth 5.0 MHz



Channel Position B_{RFBW} - QPSK / Bandwidth 10.0 MHz



Channel Position T_{RFBW} - QPSK / Bandwidth 10.0 MHz



Configuration W+L-MIMO-MC 1 (1W+1L)

Maximum Output Power 37.0dBm per port

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W)16QAM + (L)QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 1.4 MHz	(L) 869.7MHz + (W) 873.0MHz	13	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 1.4 MHz	(L) 893.3MHz + (W) 890.0MHz	13	-16.01

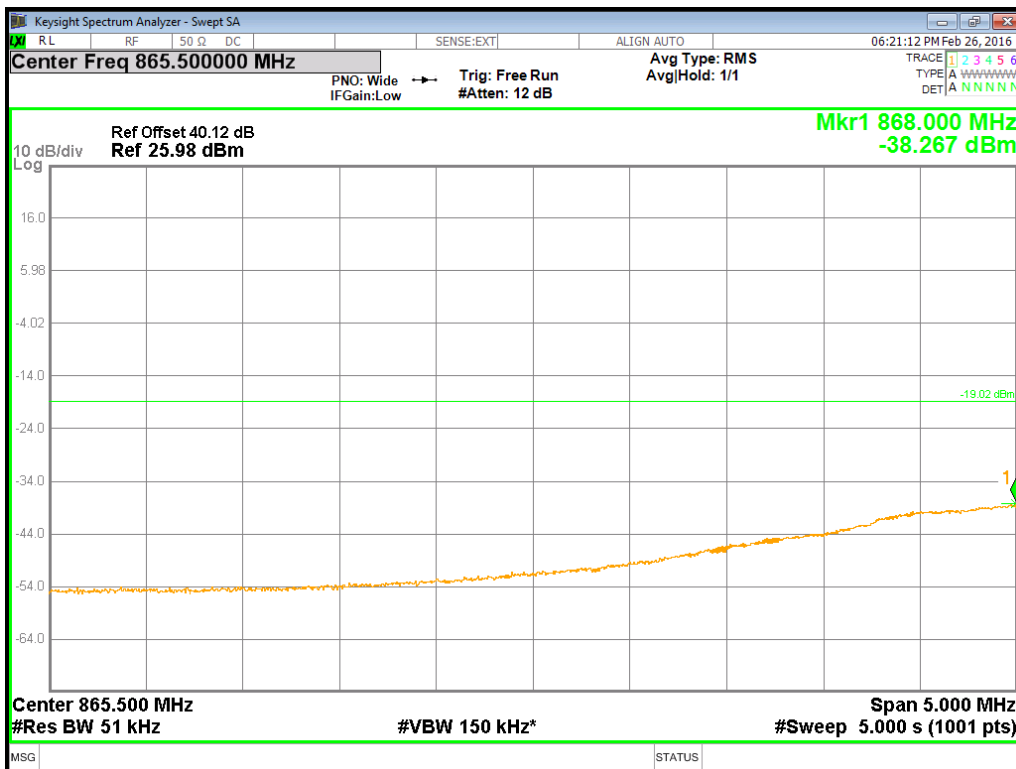
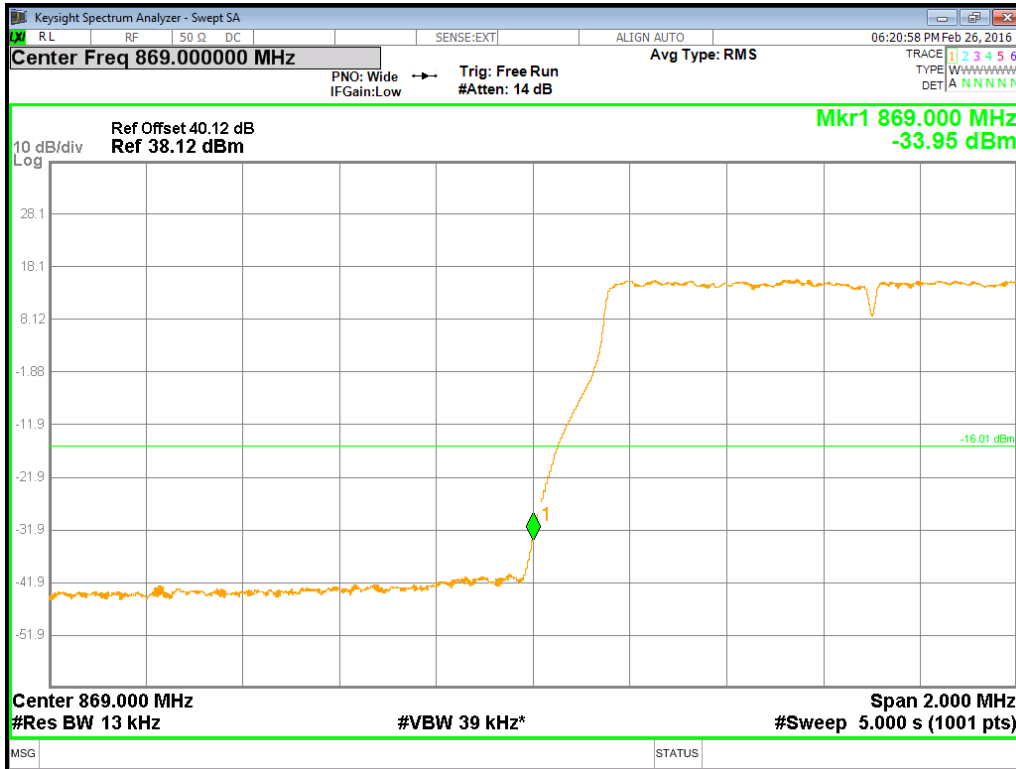
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W)16QAM + (L)QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 3.0 MHz	(L) 870.5MHz + (W) 874.6MHz	30	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 3.0 MHz	(L) 892.5MHz + (W) 888.4MHz	30	-16.01

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W)16QAM + (L)QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 5.0 MHz	(W) 871.4MHz + (L) 876.4MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 5.0 MHz	(W) 891.6MHz + (L) 886.6MHz	51	-16.01

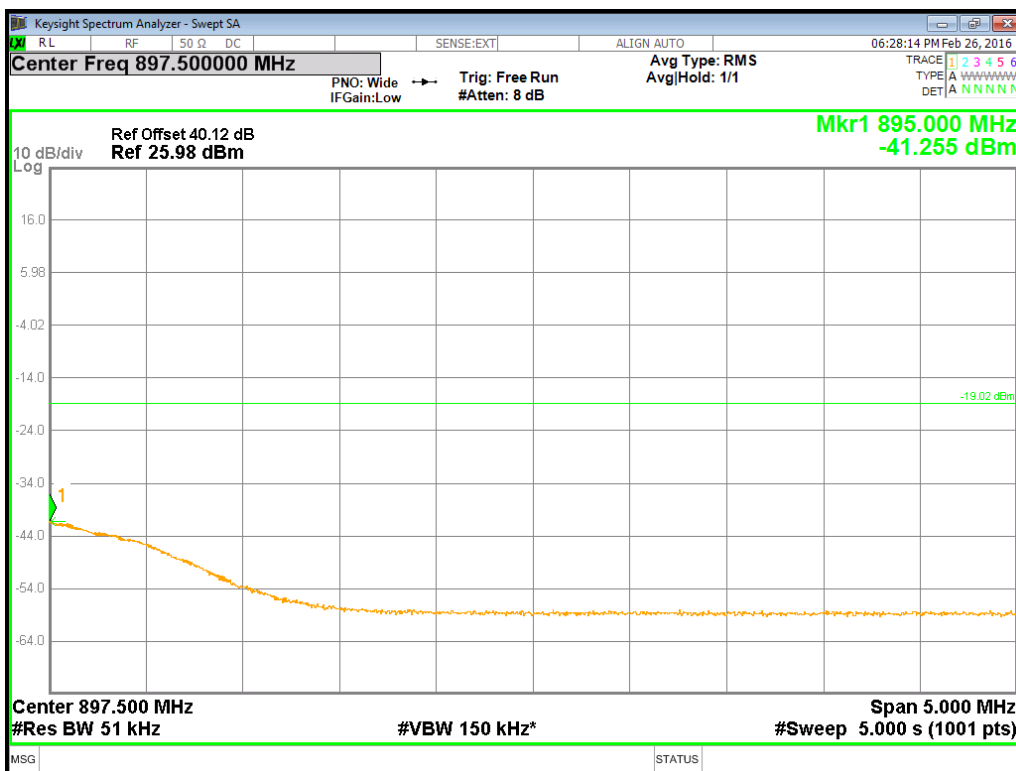
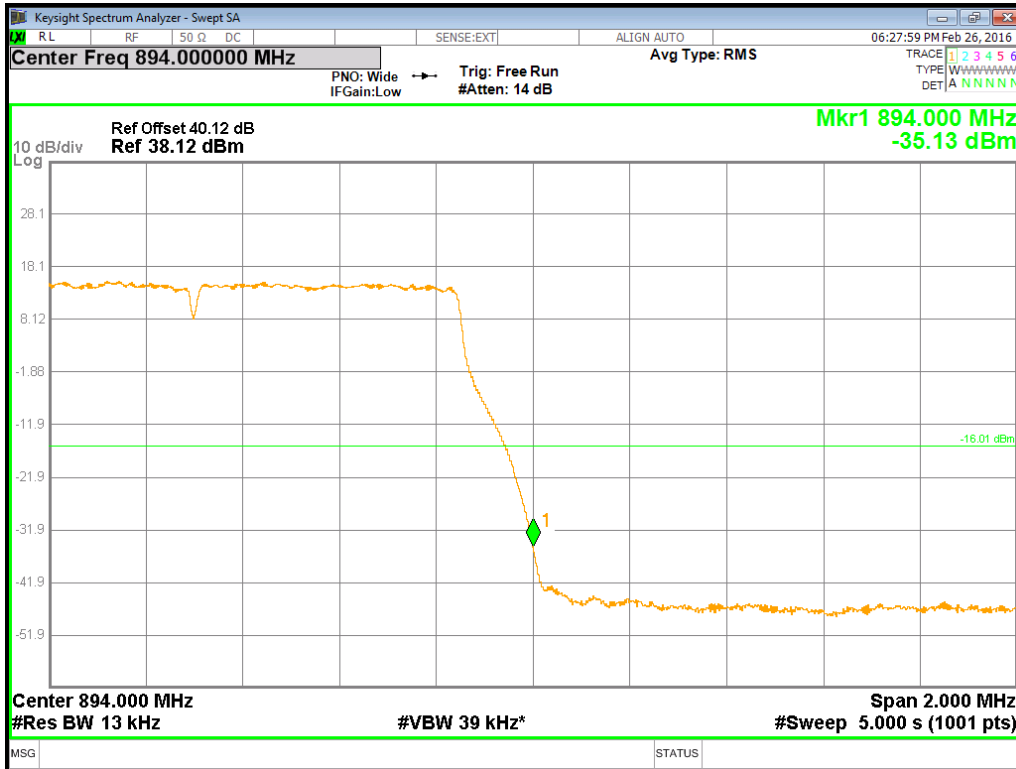
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W)16QAM + (L)QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 10.0 MHz	(W) 871.4MHz + (L) 878.9MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 10.0 MHz	(W) 891.6MHz + (L) 884.1MHz	51	-16.01

Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm.

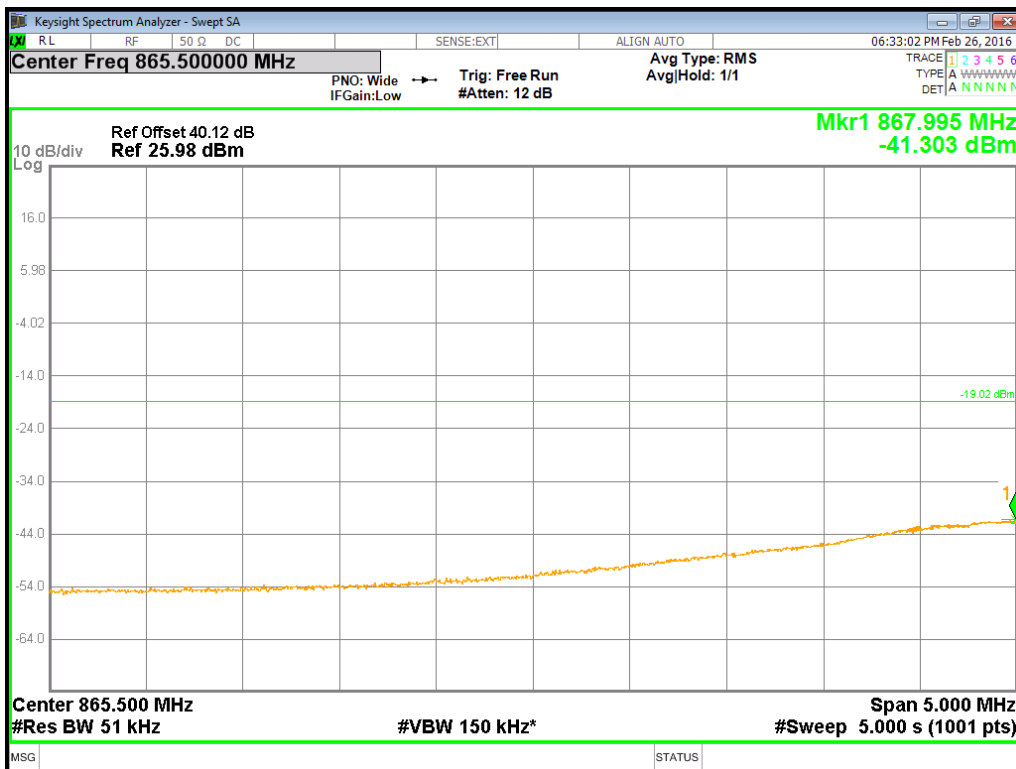
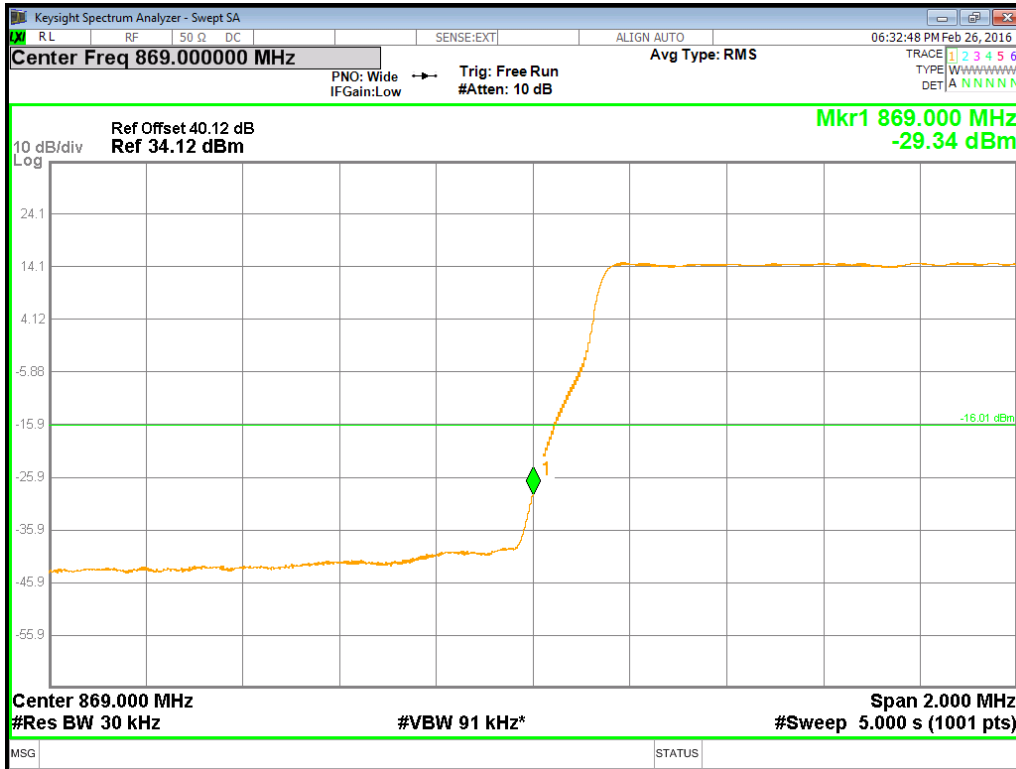
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz



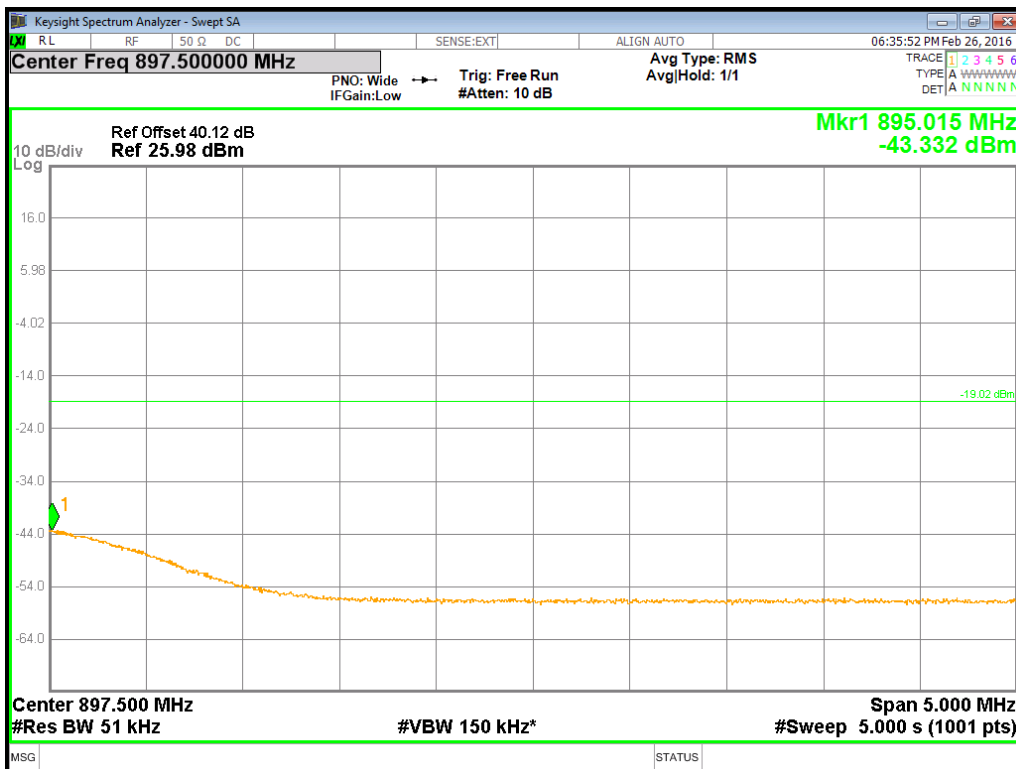
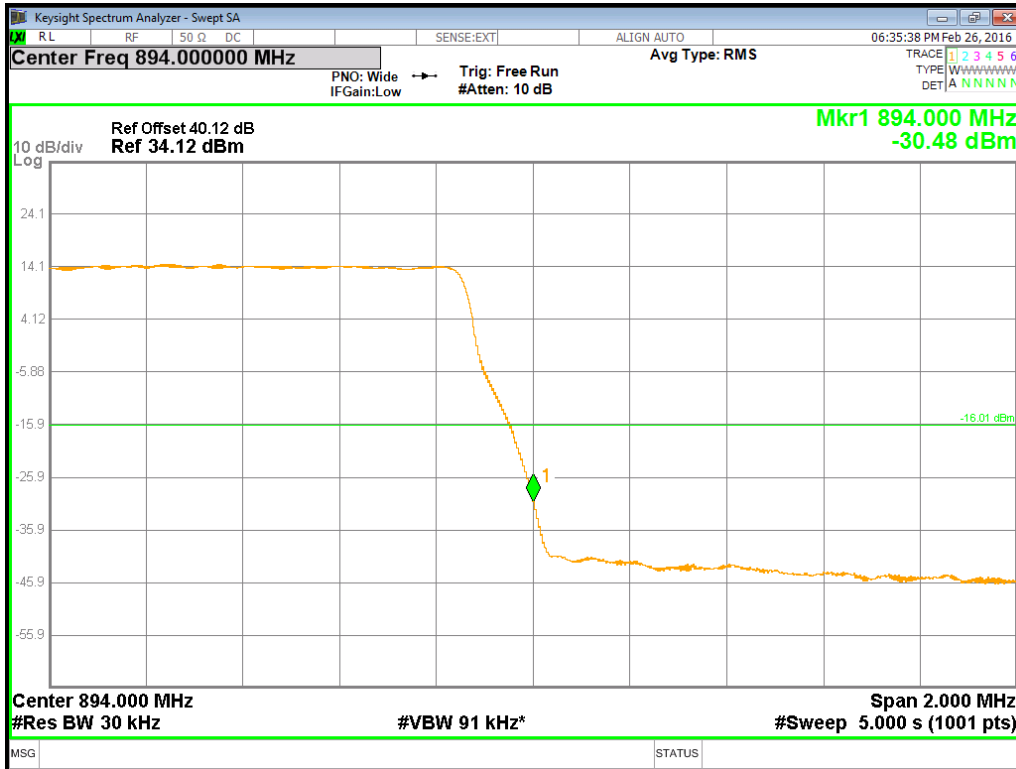
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz



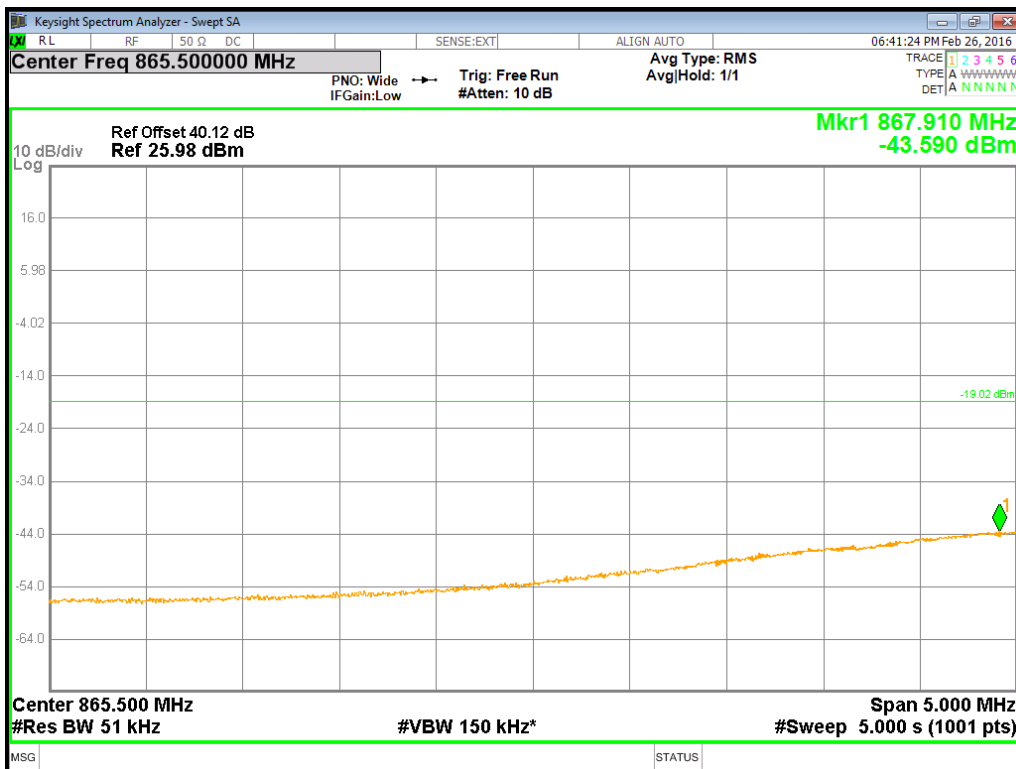
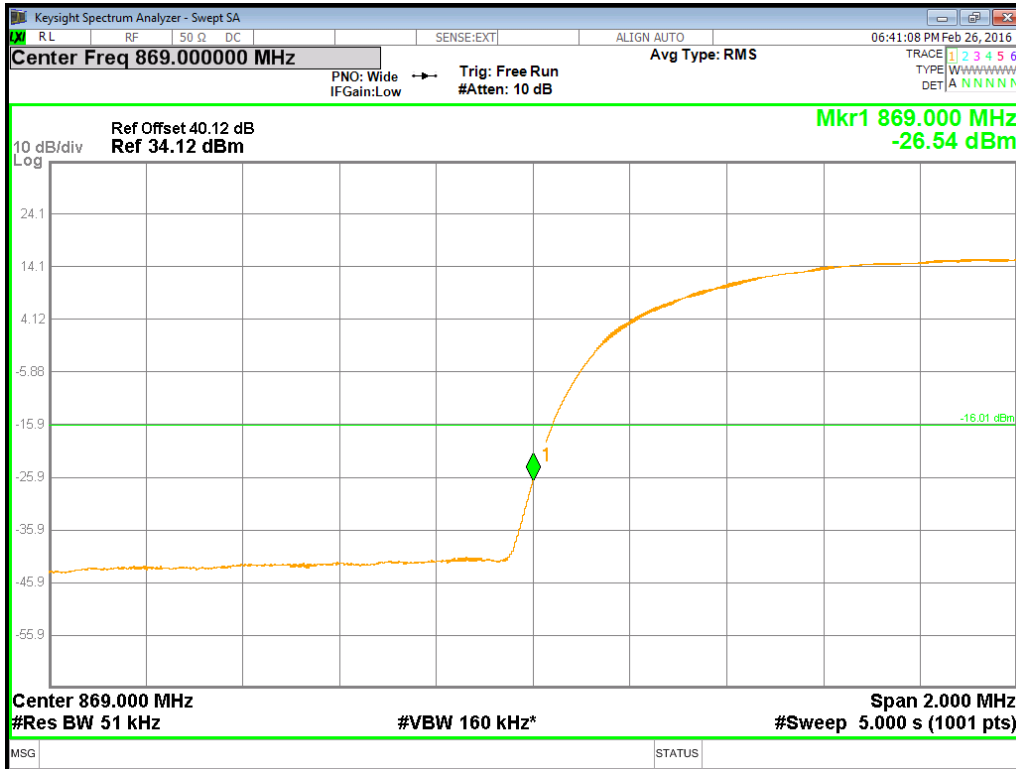
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz



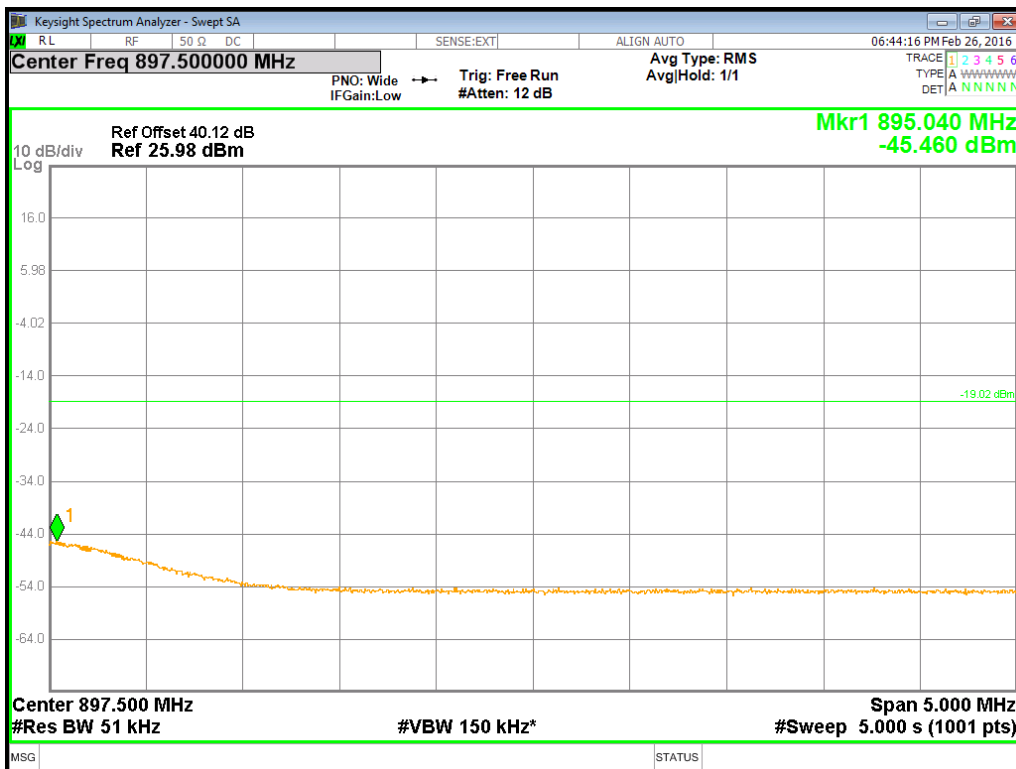
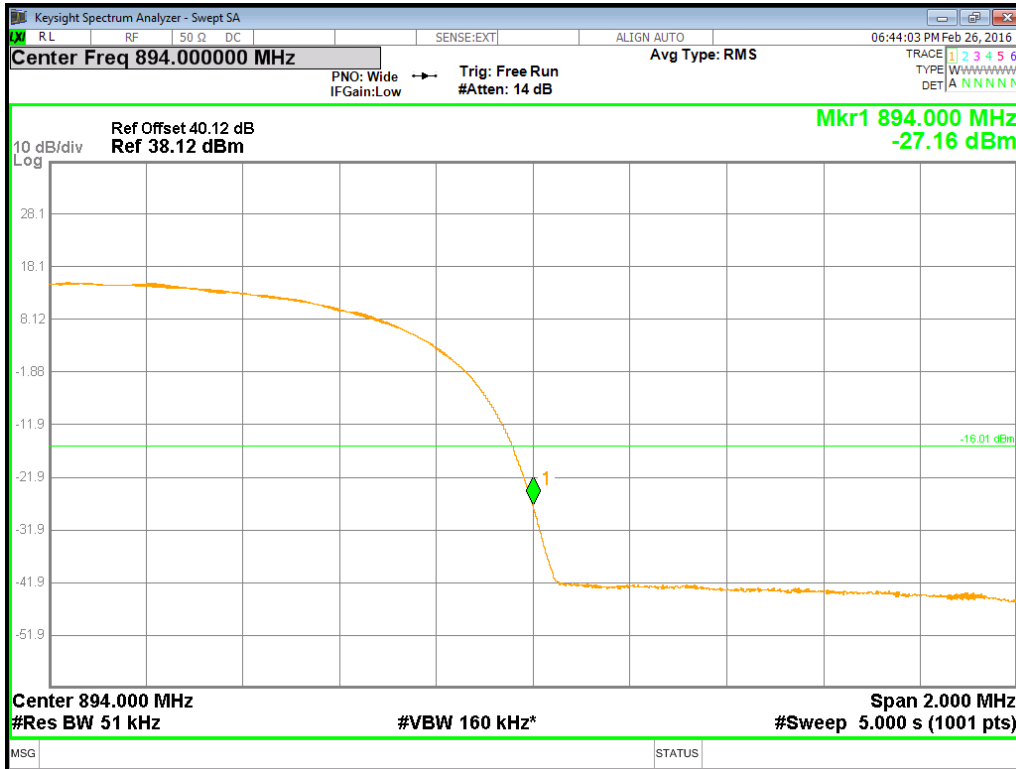
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz



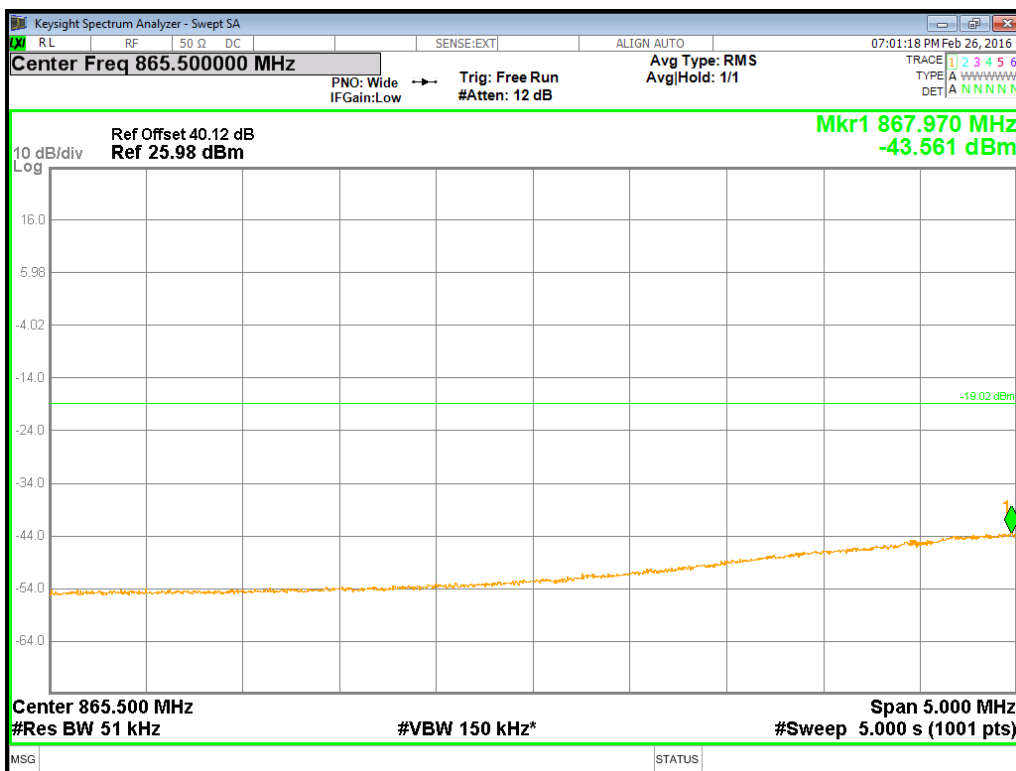
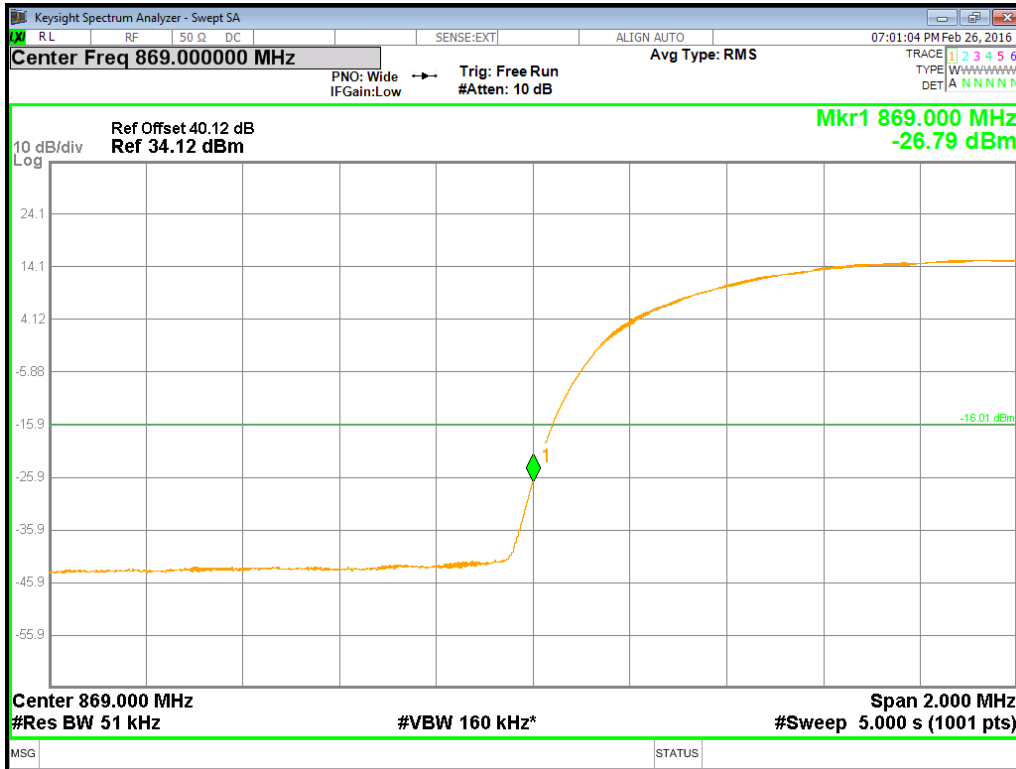
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz



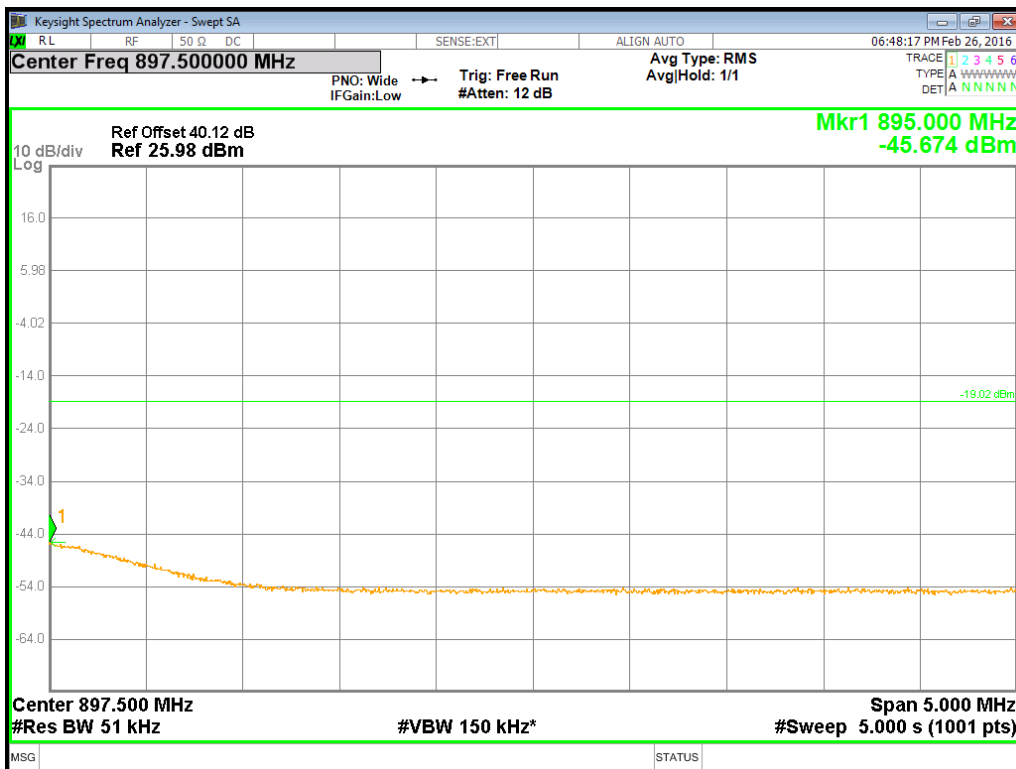
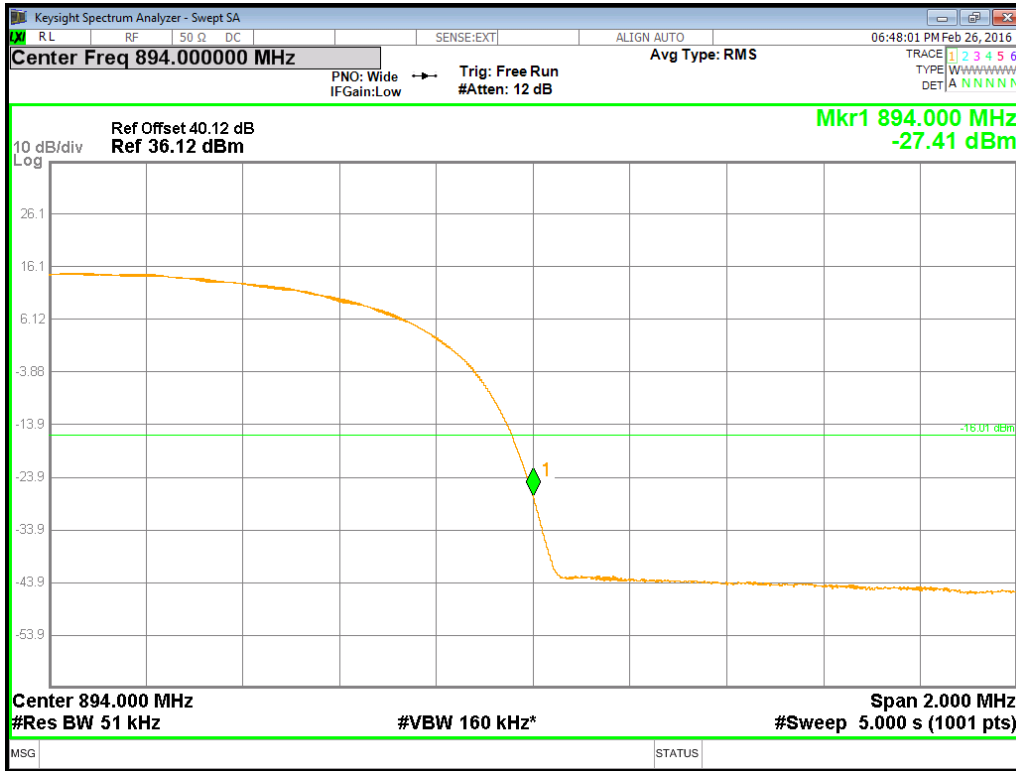
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz



Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz



Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz



Configuration W+L-MIMO-MC 4 (2W+1L)

Maximum Output Power 37.0dBm per port

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W) 16QAM + (L) QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 1.4 MHz	(L) 869.7MHz + (W) 873.0MHz + (W) 878.0MHz	13	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 1.4 MHz	(L) 893.3MHz + (W) 890.0MHz + (W) 885.0MHz	13	-16.01

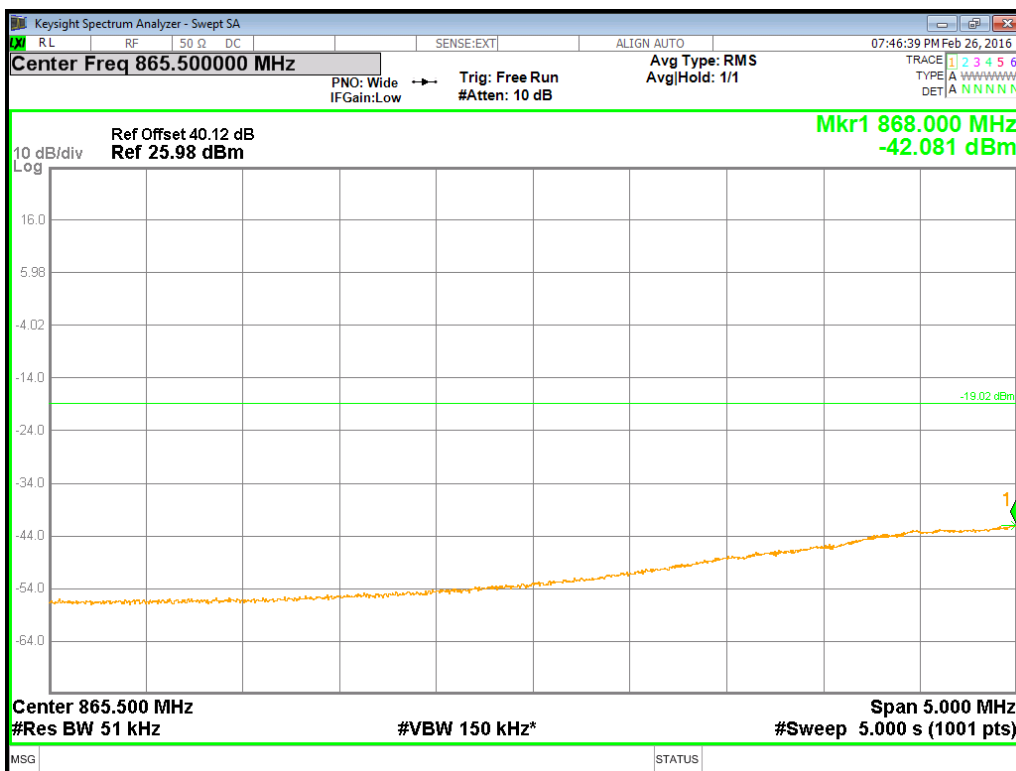
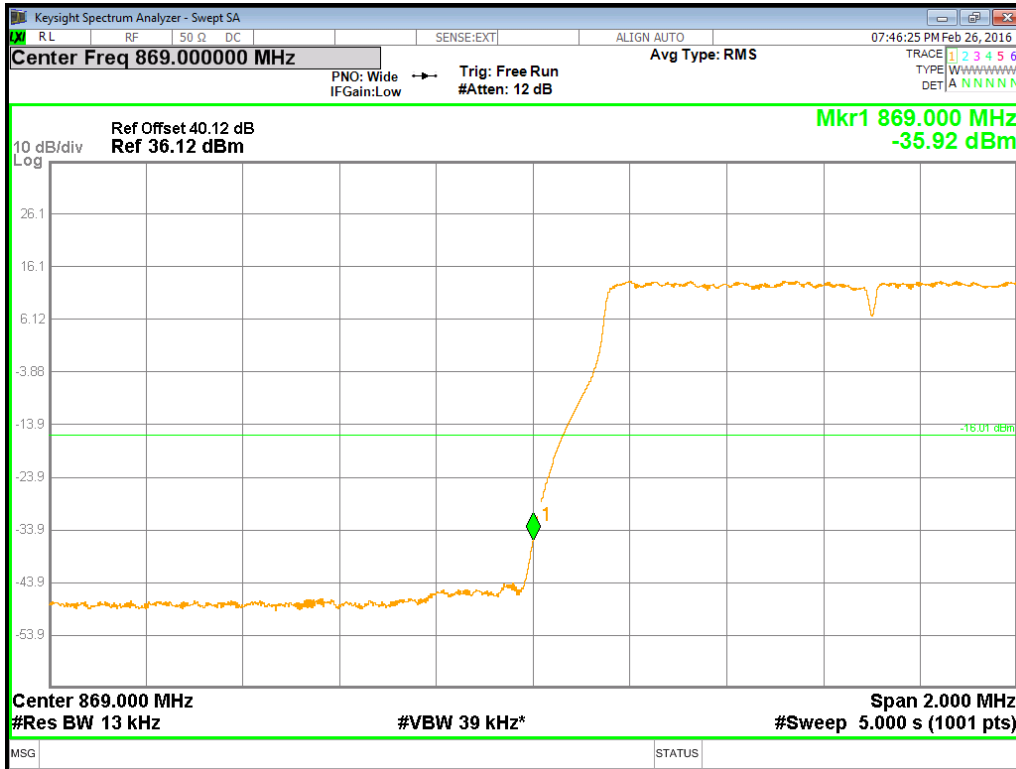
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W) 16QAM + (L) QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 3.0 MHz	(L) 870.5MHz + (W) 874.6MHz + (W) 879.6MHz	30	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 3.0 MHz	(L) 892.5MHz + (W) 888.4MHz + (W) 883.4MHz	30	-16.01

Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W) 16QAM + (L) QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 5.0 MHz	(W) 871.4MHz + (W) 876.4MHz + (L) 881.4MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 5.0 MHz	(W) 891.6MHz + (W) 886.6MHz + (L) 881.6MHz	51	-16.01

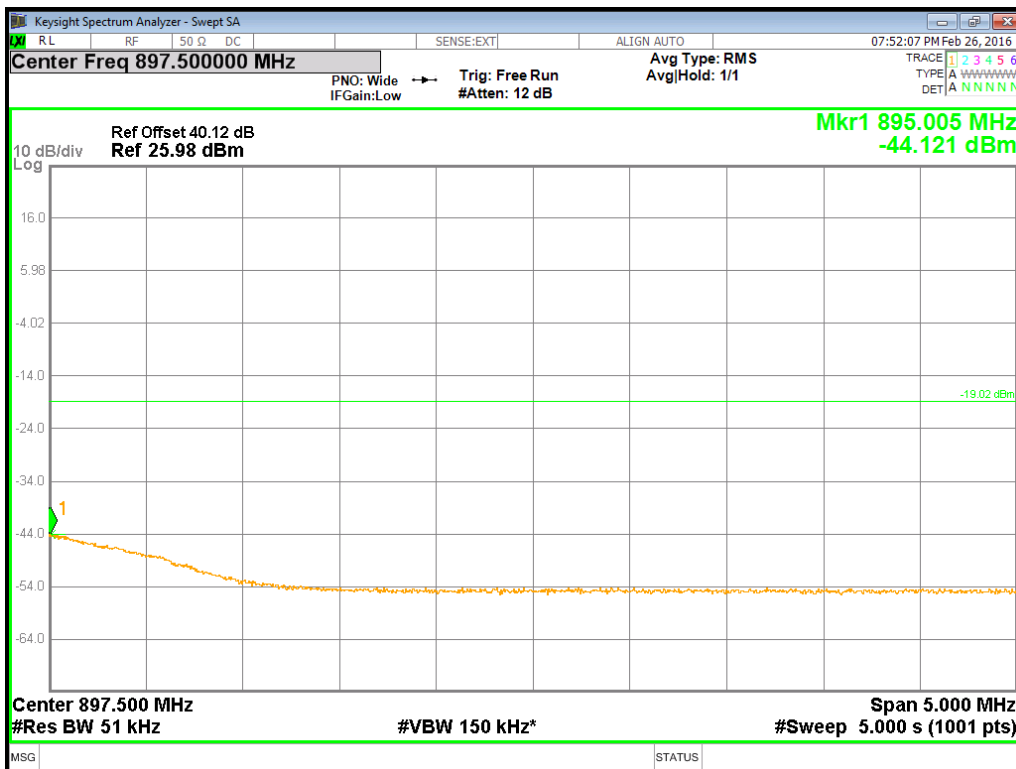
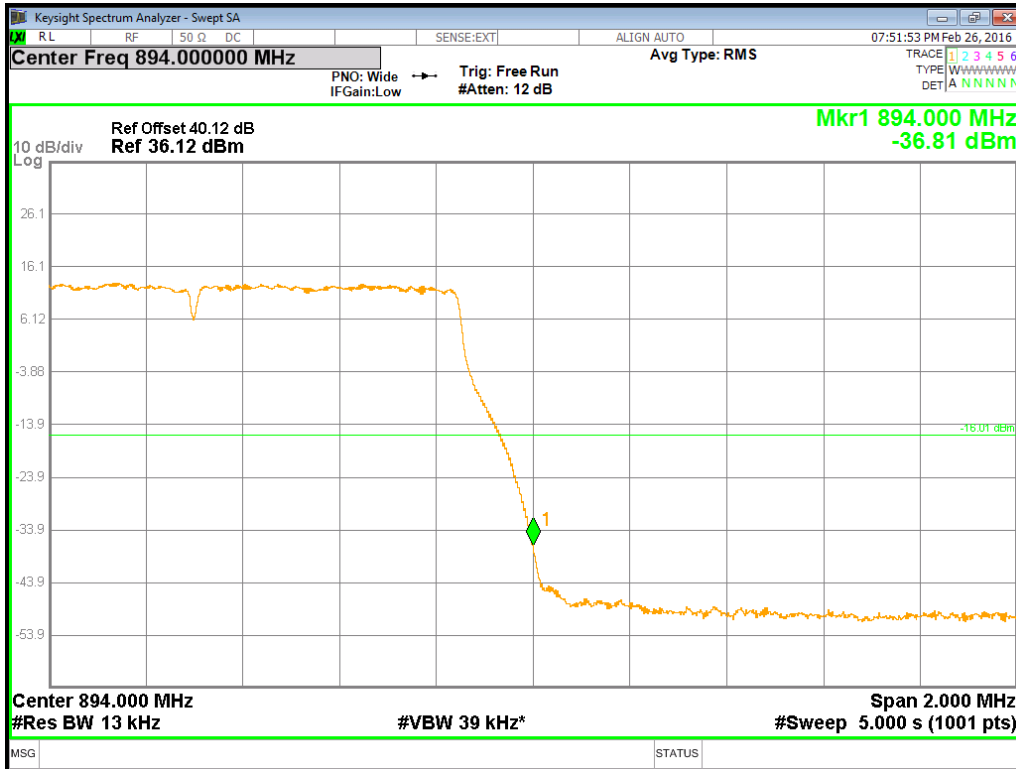
Band Edge Frequency	Channel Bandwidth	Edge Test with modulation (W) 16QAM + (L) QPSK Channel Frequencies	RBW (kHz)	Limit (dBm)
Channel Position B _{RFBW} 869.0 MHz	W: 5.0 MHz L: 10.0 MHz	(W) 871.4MHz + (W) 876.4MHz + (L) 883.9MHz	51	-16.01
Channel Position T _{RFBW} 894.0 MHz	W: 5.0 MHz L: 10.0 MHz	(W) 891.6MHz + (W) 886.6MHz + (L) 879.1MHz	51	-16.01

Note 1: For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log(2)] to -13dBm.

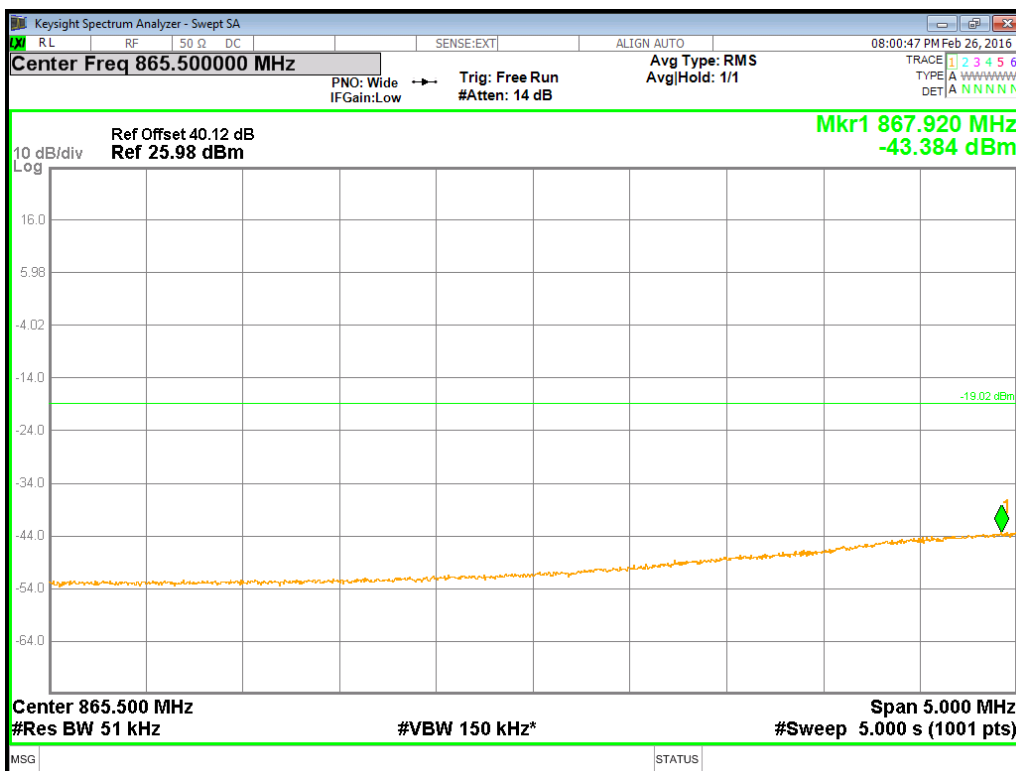
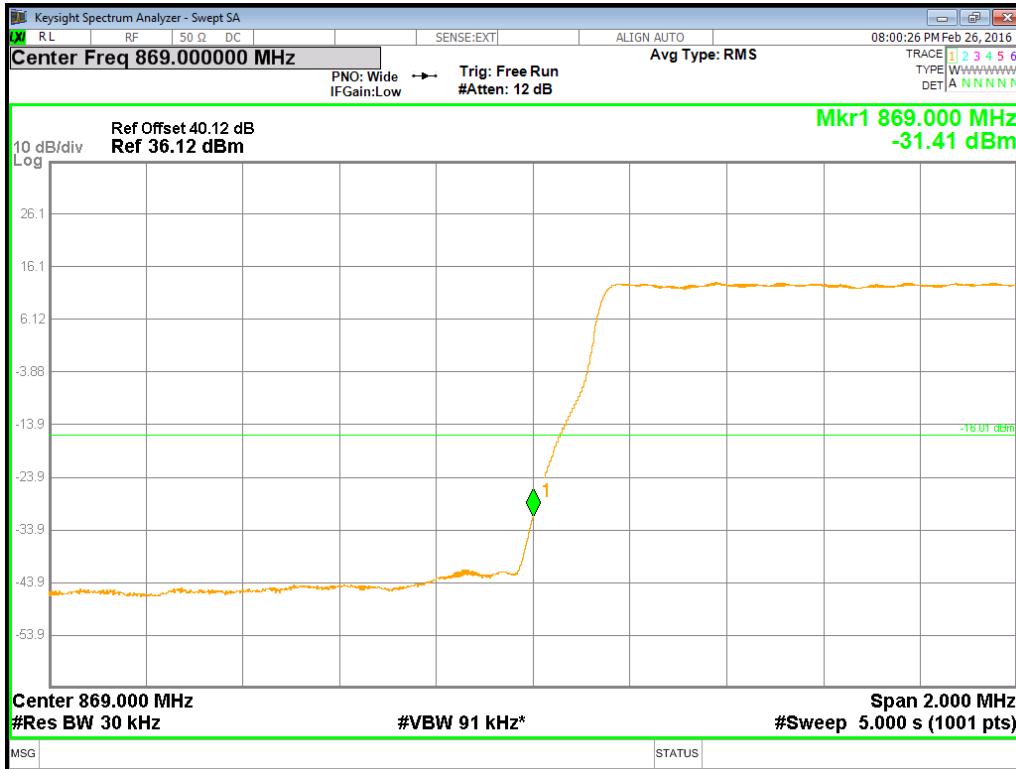
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz



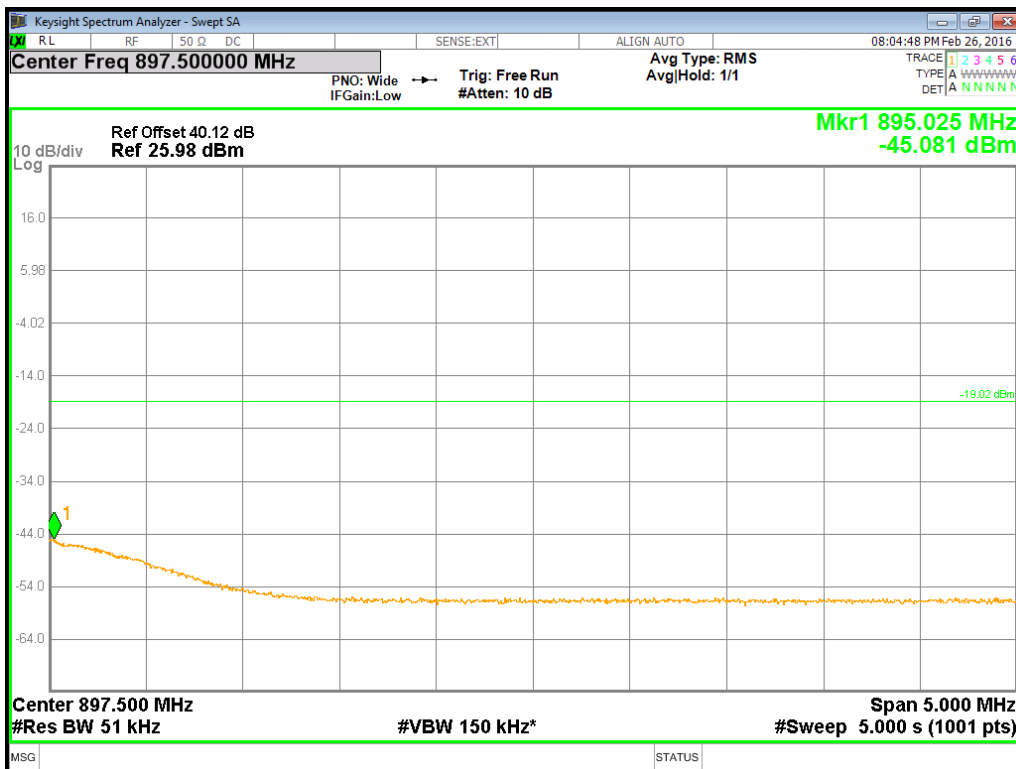
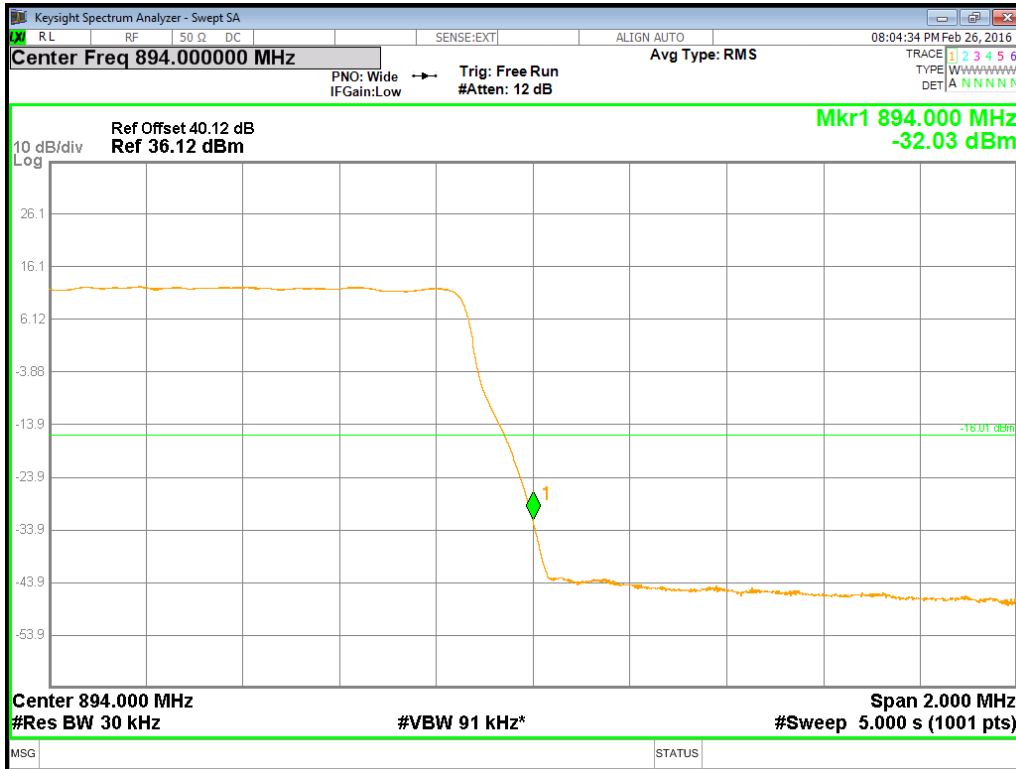
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz



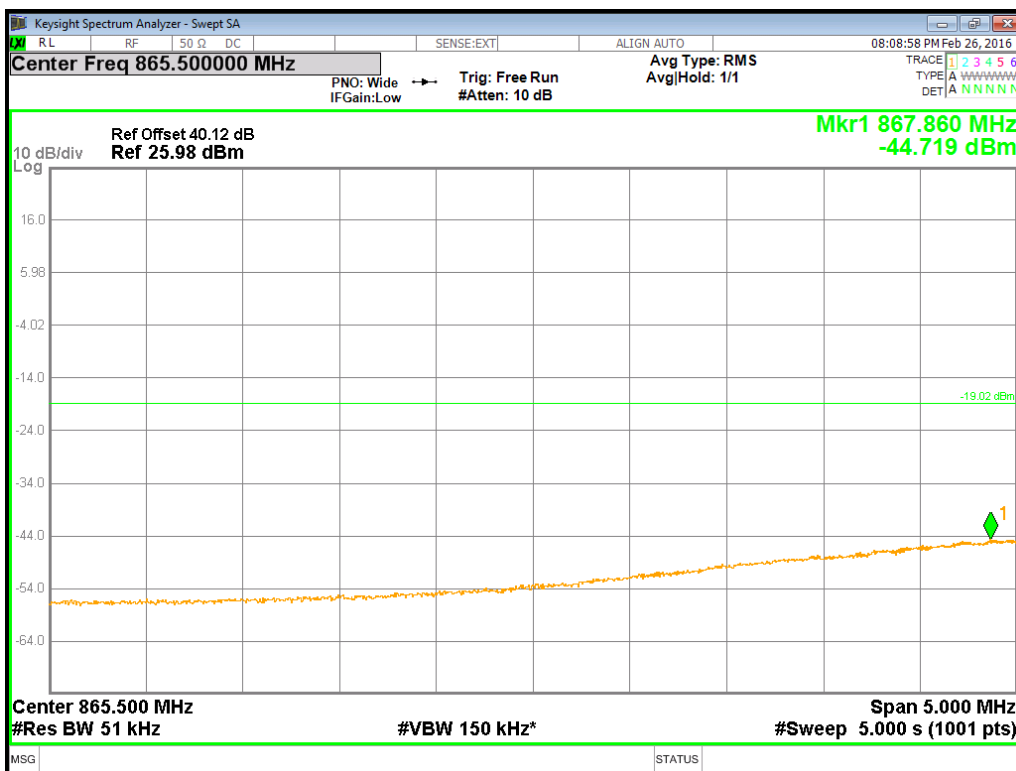
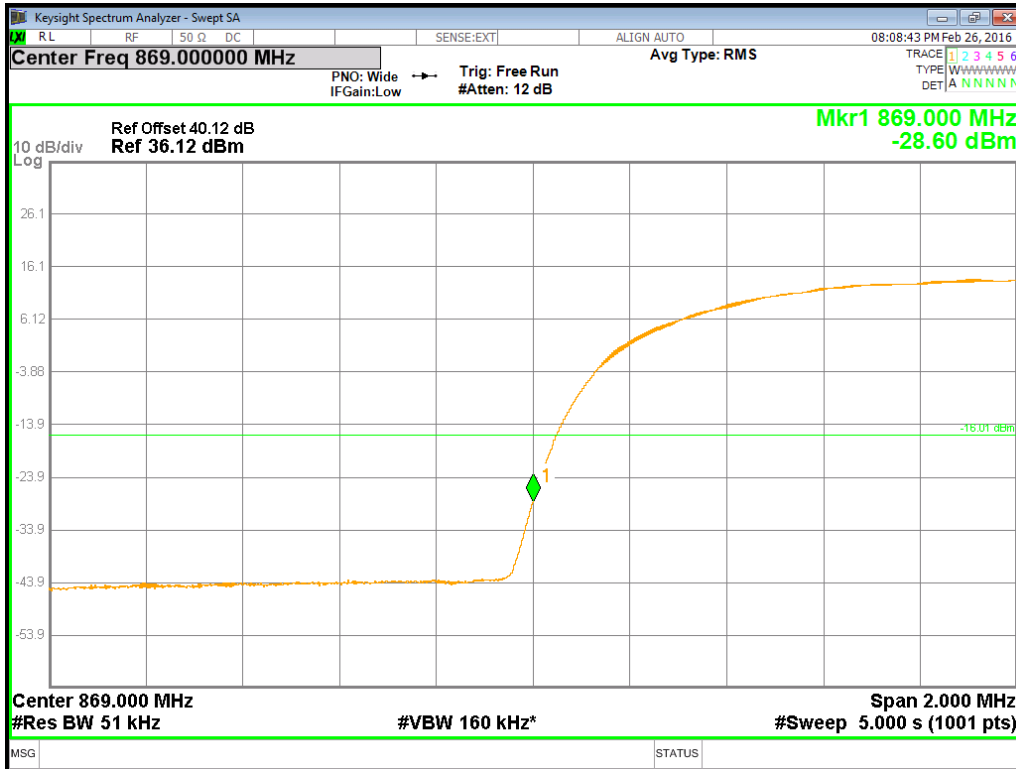
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz



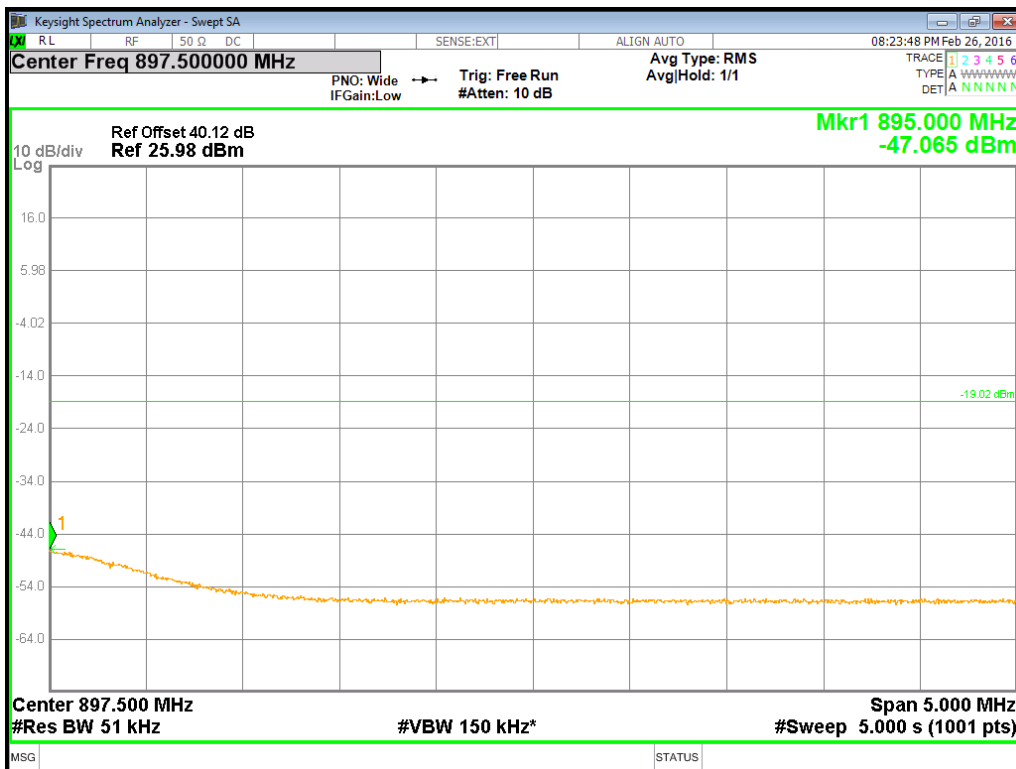
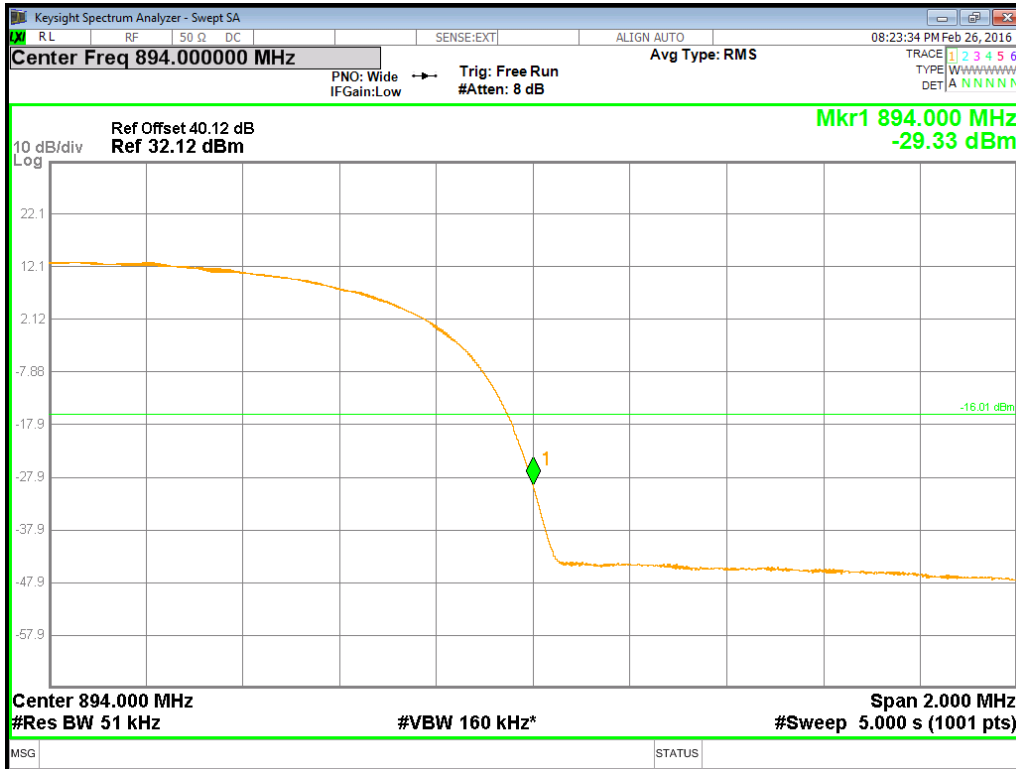
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz



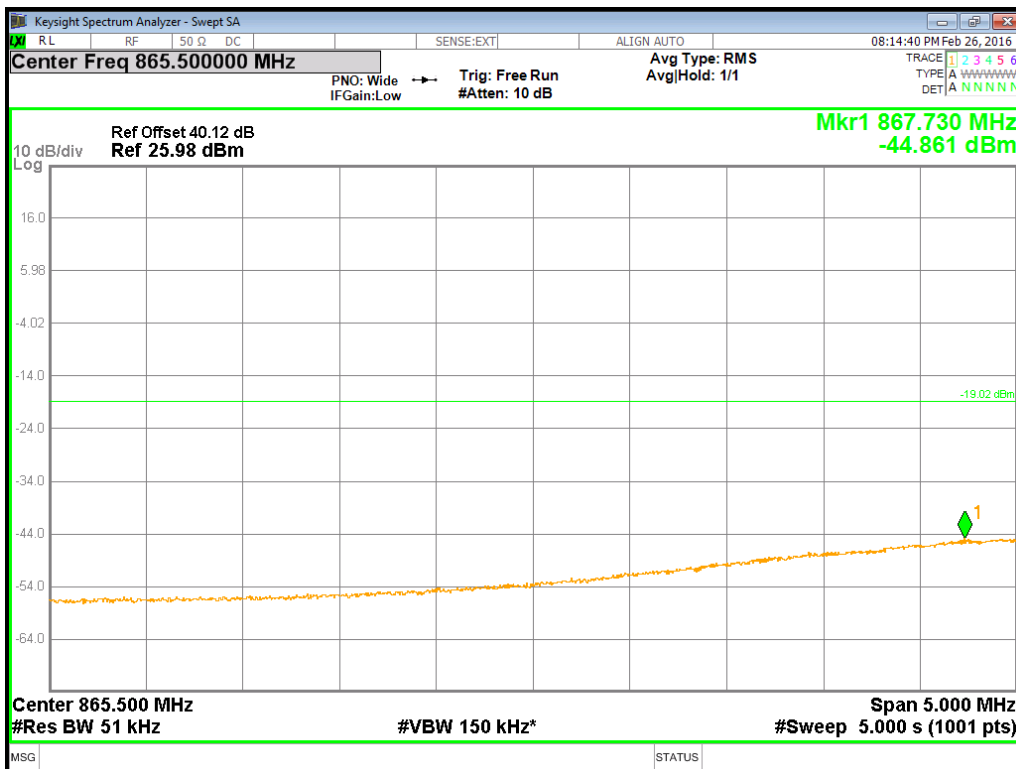
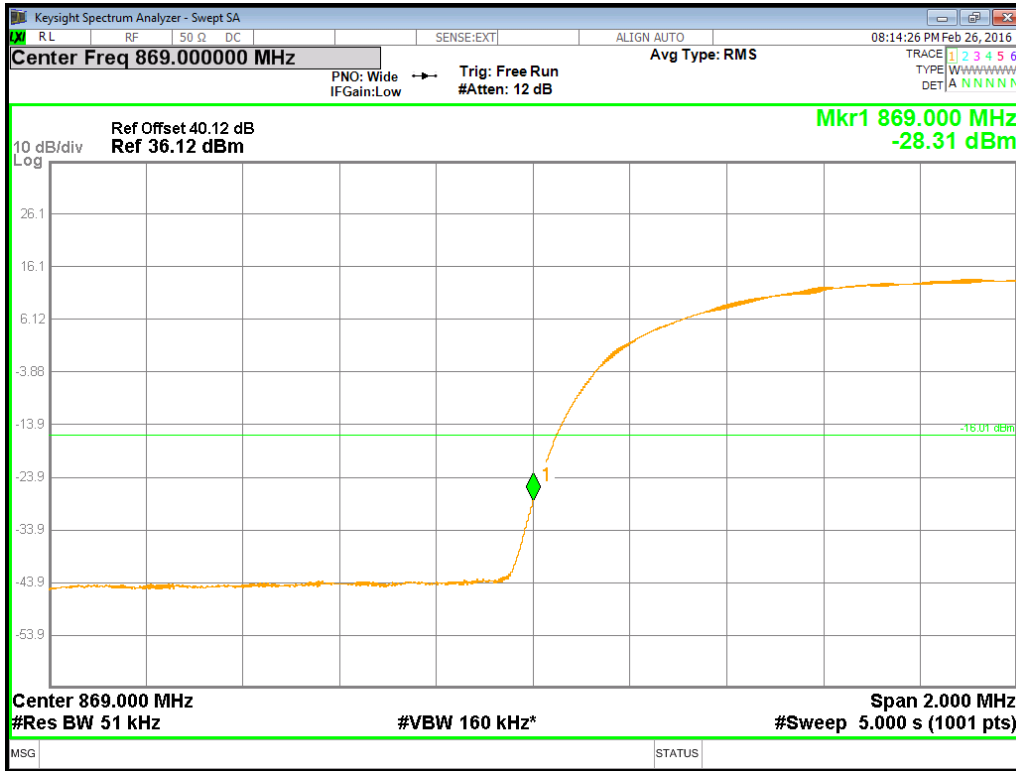
Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz



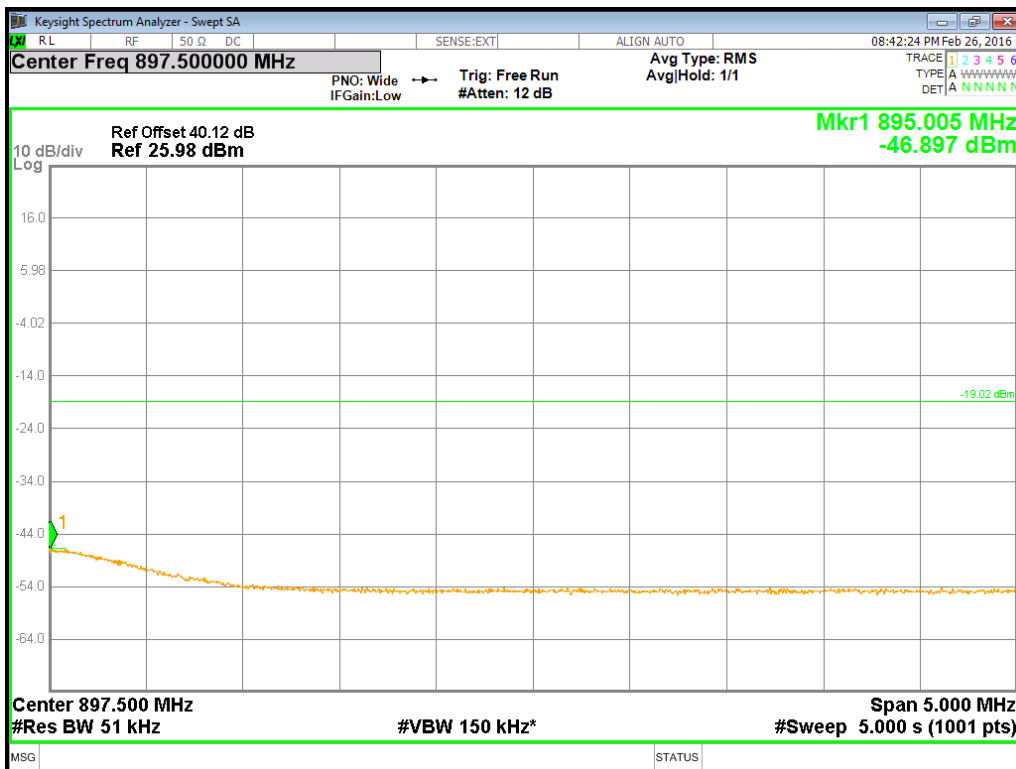
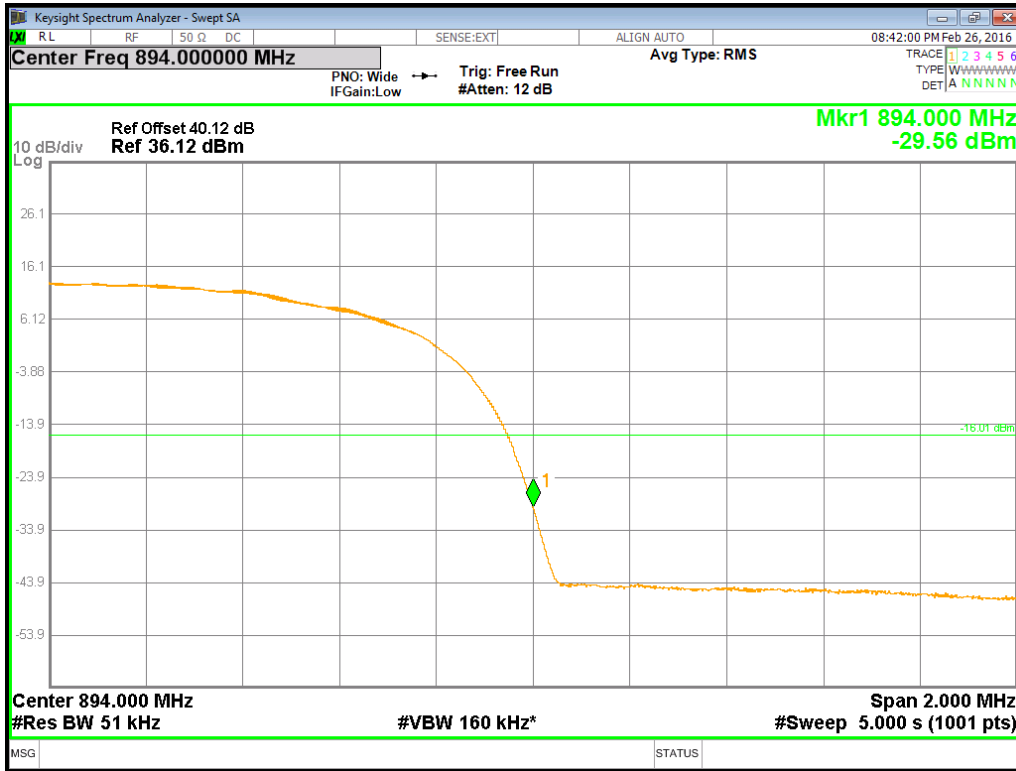
Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz



Channel Position B_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz



Channel Position T_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz





Product Service

Limit

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least $43 + 10\log P$ dB.

2.5 RADIATED SPURIOUS EMISSIONS

2.5.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1053
FCC CFR 47 Part 22, Clause 22.917 (a)
Industry Canada RSS-132, Clause 5.5

2.5.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.5.3 Date of Test and Modification State

4 and 8 March 2016 - Modification State 0

2.5.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.5 Environmental Conditions

Ambient Temperature	20.2 - 32.0°C
Relative Humidity	20.3 - 39.0%

2.5.6 Test Method

The test was applied in accordance with test method requirements of FCC CFR 47 Part 22 and RSS-132 and ANSI/TIA-603-C-2004.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within the chamber. Measurements of emissions from the EUT were obtained with the measurement antenna in both horizontal and vertical polarisations.

Emissions identified within the range 9kHz to 10GHz were then formally measured using a peak detector as the worst case.

The limits for outside a licensee's frequency band(s) of operation the power of the spurious emissions have been calculated, as shown below using the following formula:

Field Strength of Carrier - $(43 + 10\text{Log}(P))$ dB

Where:

Field Strength is measured in $\text{dB}\mu\text{V}/\text{m}$

P is measured Transmitter Power in Watts

The EUT was measured with the antenna height varied between 1 and 4 m with the turntable rotated between 0 and 360 degrees. The emission of any outside a licensee's frequencies within 20dB of the limit were measured with the substitution method used according to the standard.

The measurements were performed at a 3m distance unless otherwise stated.

Determination of Spurious Emission Limit

The field strength of the carrier has been calculated assuming that the power is to be fed to a half-wave tuned dipoles as per 2.1053 (a).

$$E_{(v/m)} = (30 \times G_i \times P_o)^{0.5} / d$$

Where G_i is the antenna gain of ideal half-wave dipoles,
 P_o is the power out of the transceiver in W,
 d is the measurement distance in meter.

Therefore at 3m measurement distance the field strength using the lowest transceiver output power would be:

$$E_{(v/m)} = (30 \times 1.64 \times 4.0)^{0.5} / 3 = 4.676 \text{ V/m} = 133.40 \text{ dB}\mu\text{V/m}$$

As per 22.917 (a) the spurious emission must be attenuated by $43 + 10\log(P_o)$ dB this gives:

$$43 + 10\log(4.0) = 49.02 \text{ dB}$$

Therefore the limit at 3m measurement distance is:

$$133.40 - 49.02 = 84.4 \text{ dB}\mu\text{V/m}$$

These limits have been used to determine Pass or Fail for the harmonics measured and detailed in the following results.

The results are shown in the plots below.

2.5.7 Test Results

Note: Only the worst case results plots have been included as all of the emissions are greater than 20dB below the limit. A set of plots have been included to show the measurement system noise floor.

Configuration W-SC

Maximum Output Power 37.0dBm per port, WCDMA Bandwidth 5.0MHz

Channel Position	Channel Frequencies
Channel Position M	881.4MHz

Channel Position M - QPSK

No emissions were detected within 20dB of the limit.

Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port, WCDMA Bandwidth 5.0MHz

Channel Position	Channel Frequencies
Channel Position M	881.4MHz

Channel Position M - 16QAM&64QAM

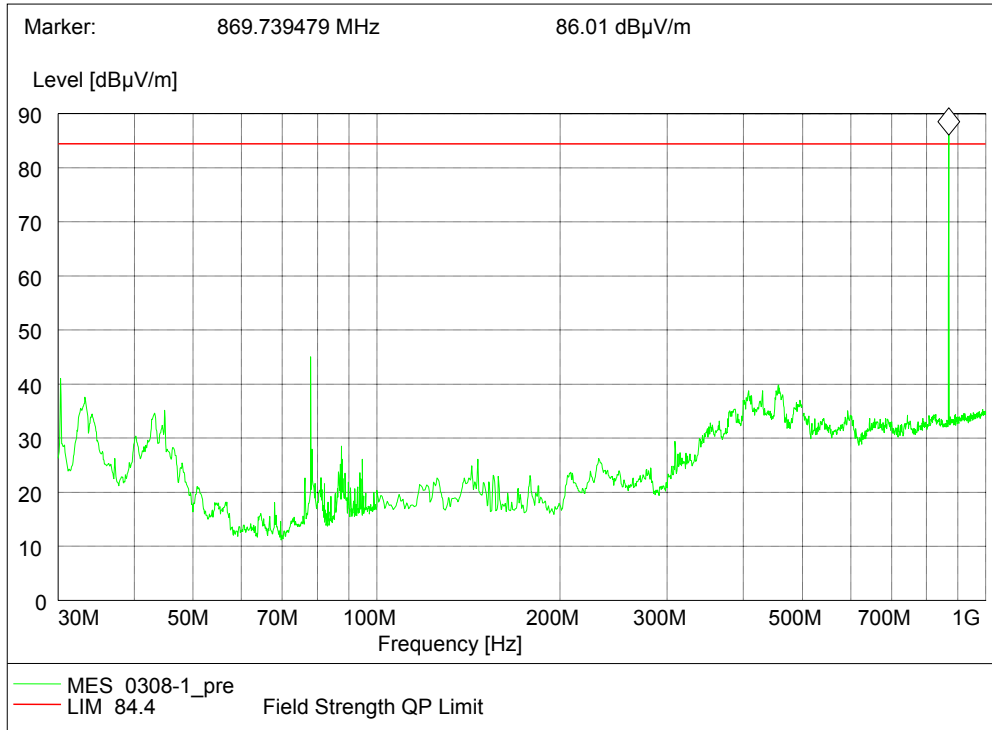
No emissions were detected within 20dB of the limit.

Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port, LTE Bandwidth 1.4MHz

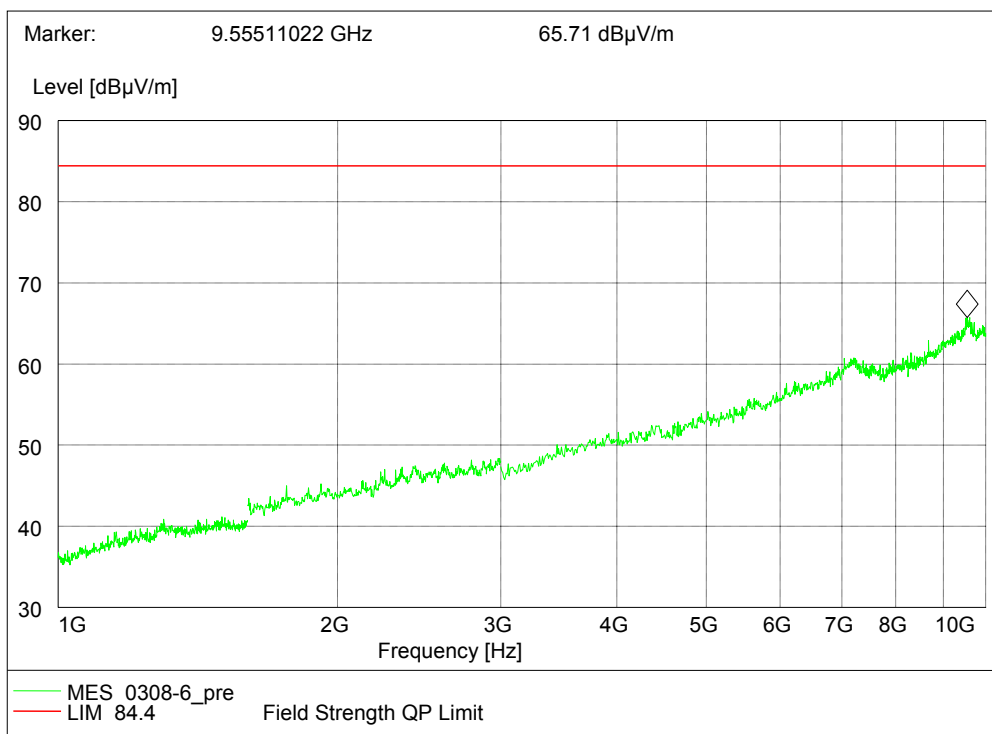
Channel Position	Channel Frequencies
Channel Position B	869.7MHz
Channel Position M	881.5MHz
Channel Position T	893.3MHz

Channel Position B-16QAM-30MHz-1GHz



Note: The emission beyond the limit is the operating frequency.

Channel Position B-16QAM-1GHz-10GHz



Channel Position M - QPSK&16QAM&64QAM&256QAM

No emissions were detected within 20dB of the limit.

Channel Position T-16QAM

No emissions were detected within 20dB of the limit.

Configuration L-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port, LTE Bandwidth 1.4MHz

Channel Position	Channel Frequencies
Channel Position M_{RFBW}	869.7MHz + 893.3MHz

Channel Position M_{RFBW} – 16QAM

No emissions were detected within 20dB of the limit.

Configuration W+L-MIMO-MC 1 (1W+1L)

Maximum Output Power 37.0dBm per port, WCDMA Bandwidth 5.0MHz, LTE Bandwidth 1.4MHz

Channel Position	Channel Frequencies
Channel Position M_{RFBW}	(W) 871.4MHz + (L) 893.3MHz

Channel Position M_{RFBW} – WCDMA 16QAM / LTE QPSK

No emissions were detected within 20dB of the limit.

Limit	-13dBm / 84.4dB μ V/m.
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Remarks

The EUT does not exceed -13dBm / 84.4dB μ V/m at the measured frequencies.

2.6 CONDUCTED SPURIOUS EMISSIONS

2.6.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051
FCC CFR 47 Part 22, Clause 22.917 (a)
Industry Canada RSS-132, Clause 5.5

2.6.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.6.3 Date of Test and Modification State

24, 26 and 29 February 2016 - Modification State 0

2.6.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.6.5 Environmental Conditions

Ambient Temperature	19.7 - 20.8°C
Relative Humidity	24.8 - 31.0%

2.6.6 Test Method

The test was applied in accordance with test method requirements of FCC CFR 47 Part 22 and RSS-132.

In accordance with FCC CFR 47 Part 22, Clause 22.917 (a), any emissions outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB, and the measurement should be performed with a resolution bandwidth of 100kHz.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 9kHz to 10GHz. The resolution bandwidth of 100 kHz was employed for frequency band 9kHz to 10GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB $[10\log_2]$ by using the Measure and Add $10\log(N)$ dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output v02r01 accounting for simultaneous transmission from antenna ports RF A and RF B. Then the limit was adjusted to -16.01dBm.

The measurements were performed on the output connector RF A. Limited complementary measurements were done at output connector RF B to verify identical performance for both transmitter chains in MIMO mode.

The maximum path loss across the measurement band was used as the reference level offset to ensure worst case.

The worst results are shown in the plots below.

2.6.7 Test Results

Remark:

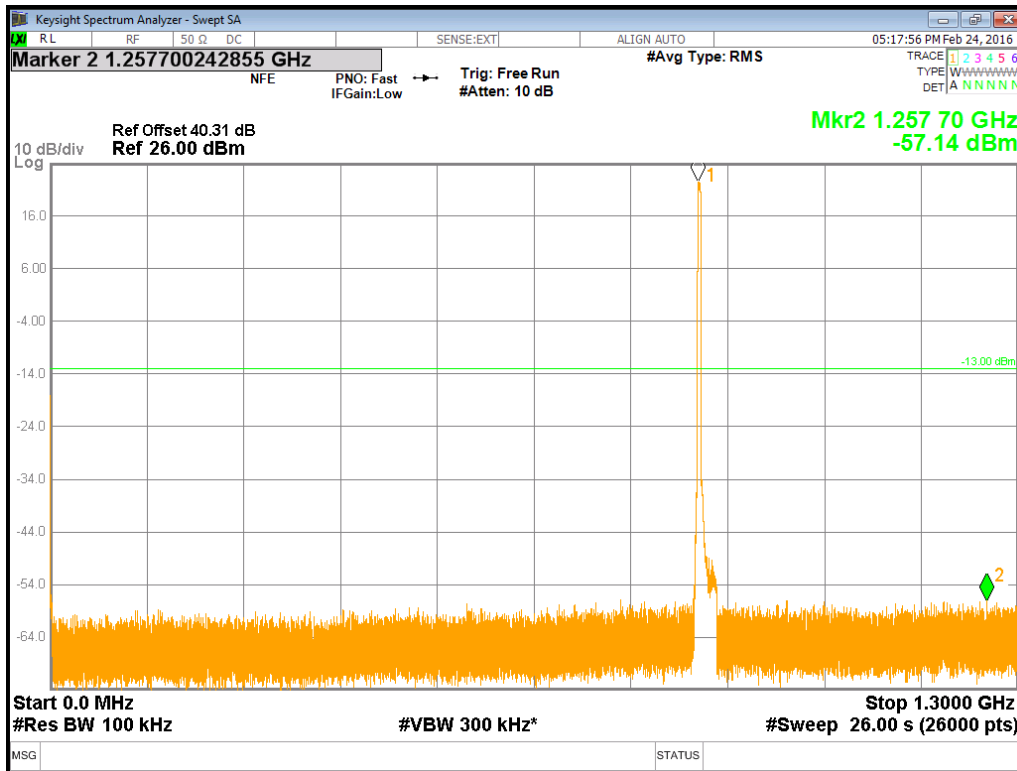
The emissions at 9kHz on the plots was not generated by the test object.

Configuration W-SC

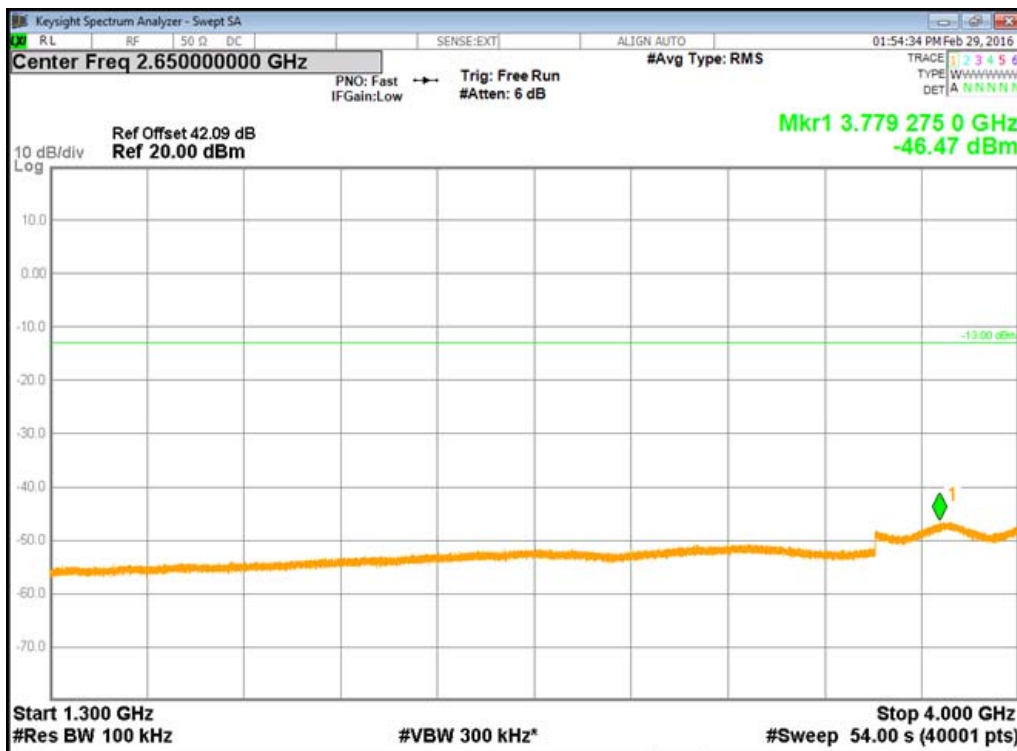
Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position B	5.0MHz	871.4MHz
Channel Position M	5.0MHz	881.4MHz
Channel Position T	5.0MHz	891.6MHz

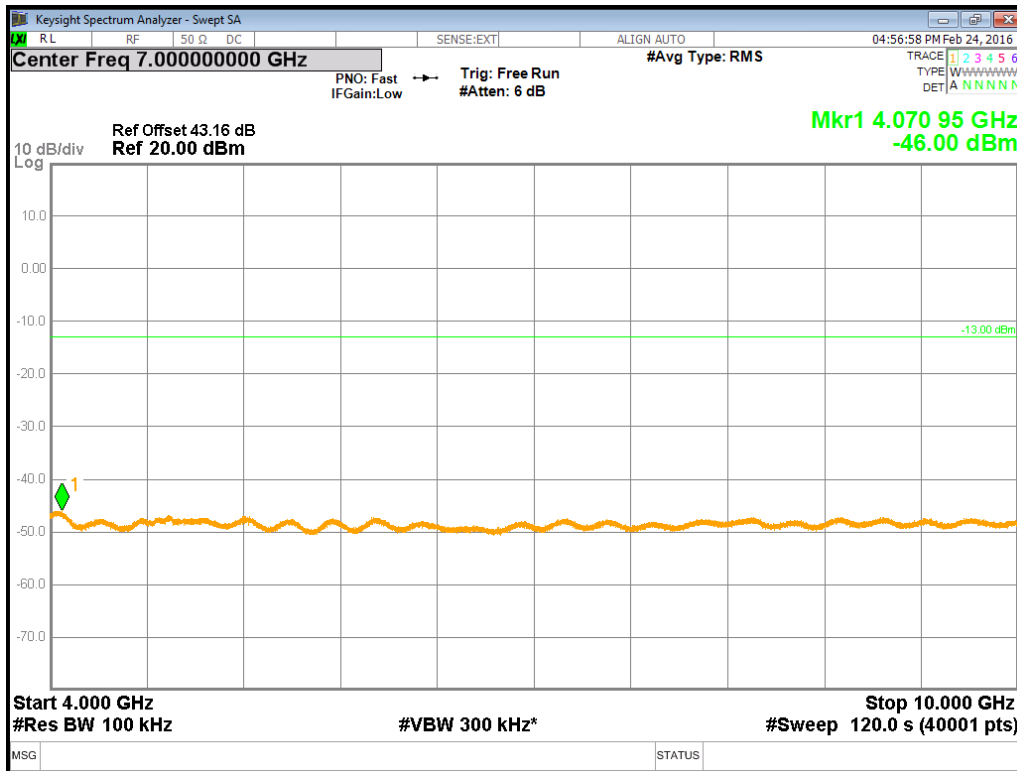
Channel Position B - QPSK / Bandwidth 5.0MHz - 9kHz - 1.3GHz



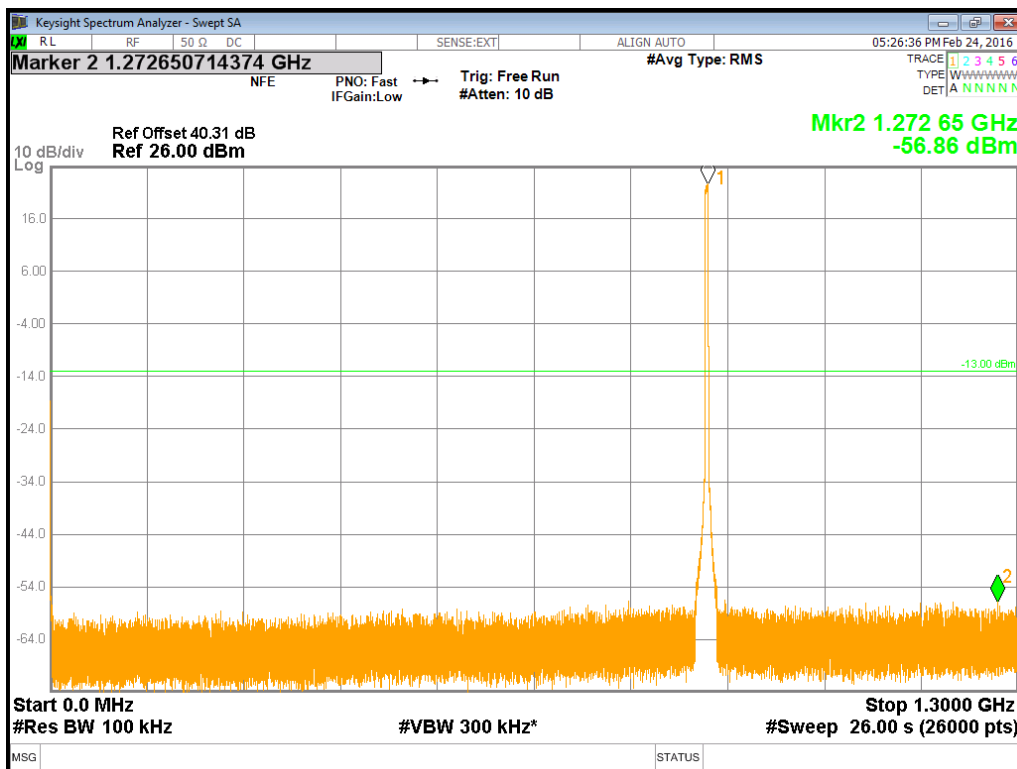
Channel Position B - QPSK / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position B - QPSK / Bandwidth 5.0MHz - 4GHz - 10GHz



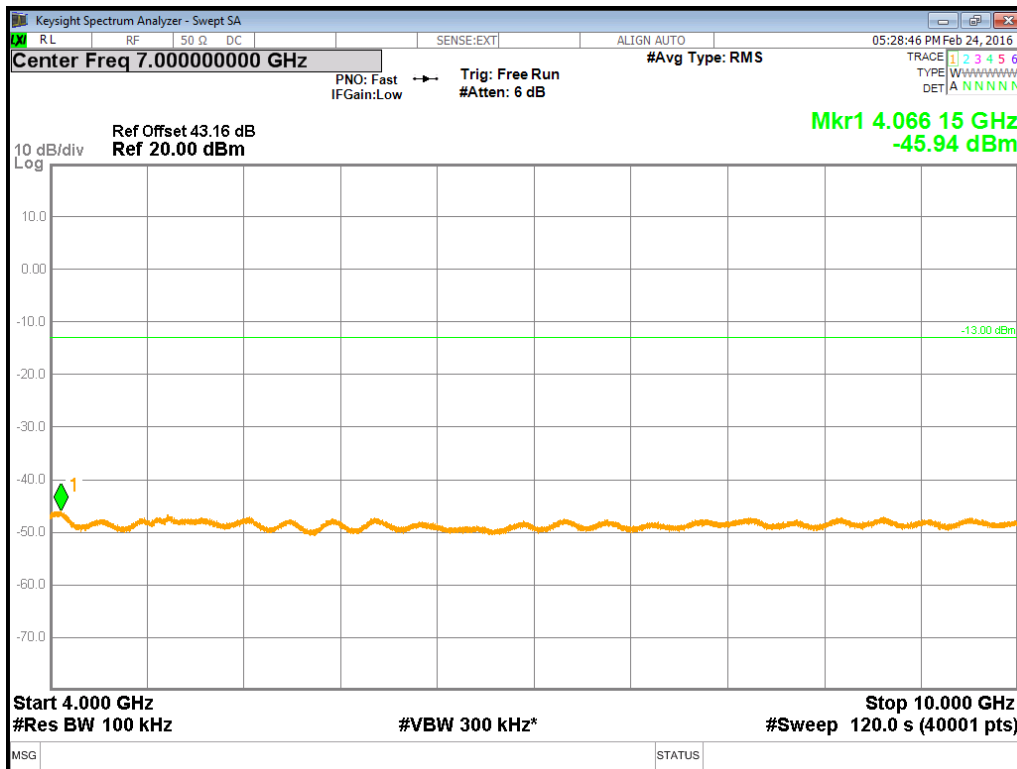
Channel Position M - QPSK / Bandwidth 5.0MHz - 9kHz - 1.3GHz



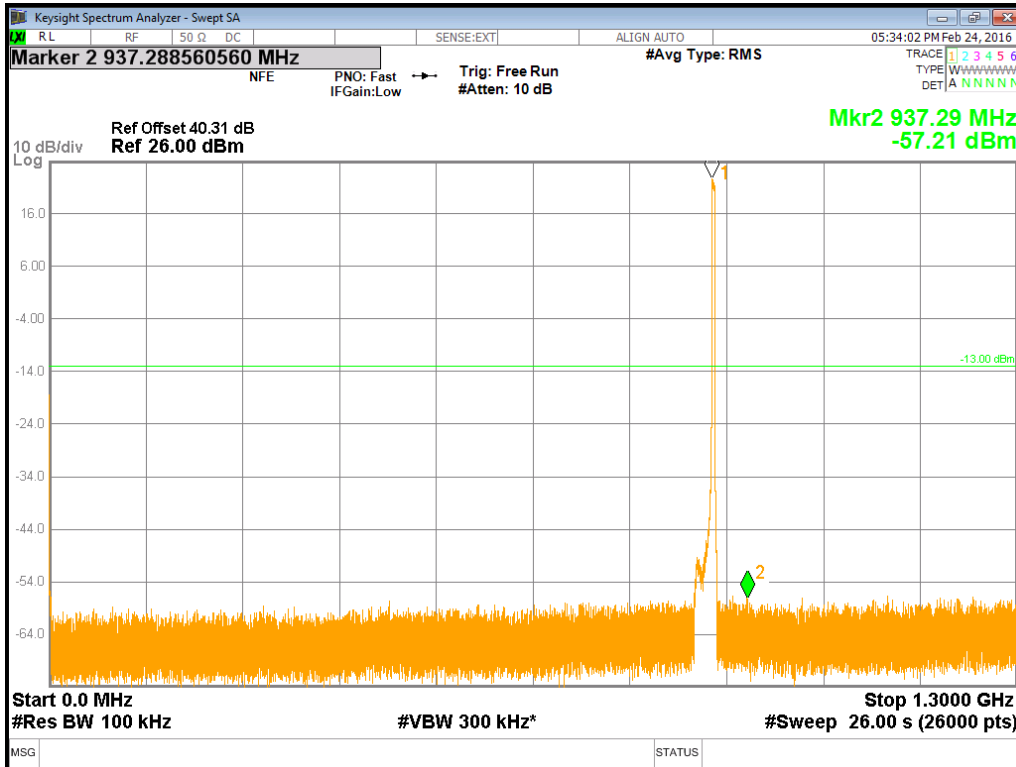
Channel Position M - QPSK / Bandwidth 5.0MHz - 1.3GHz - 4GHz



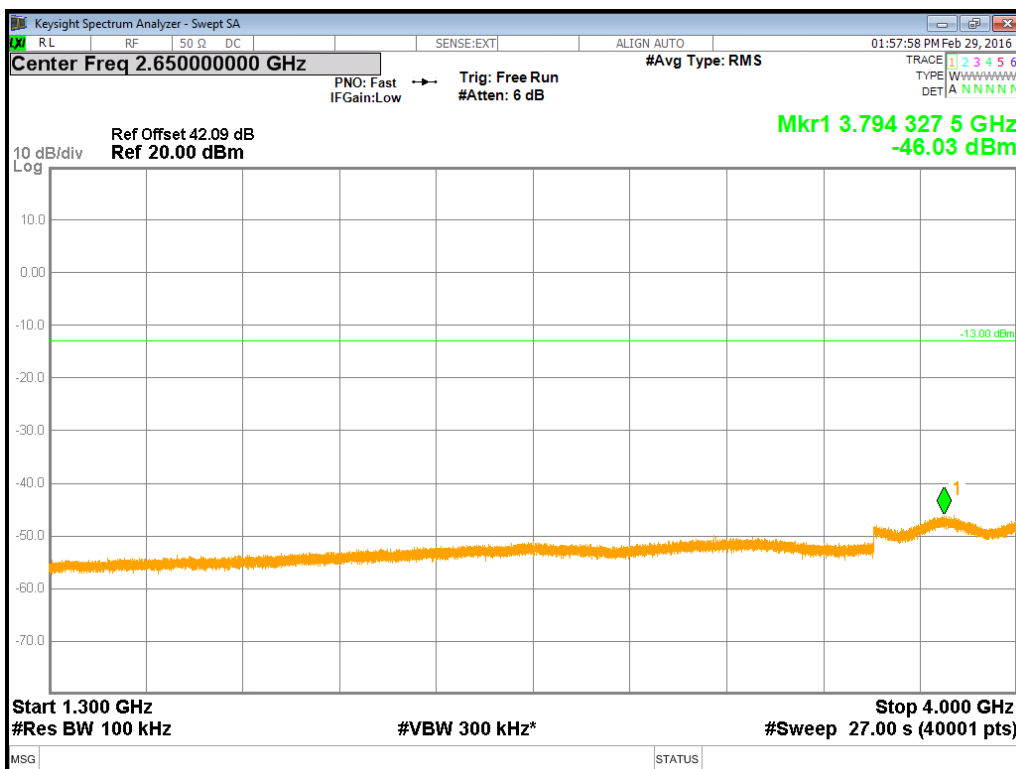
Channel Position M - QPSK / Bandwidth 5.0MHz - 4GHz - 10GHz



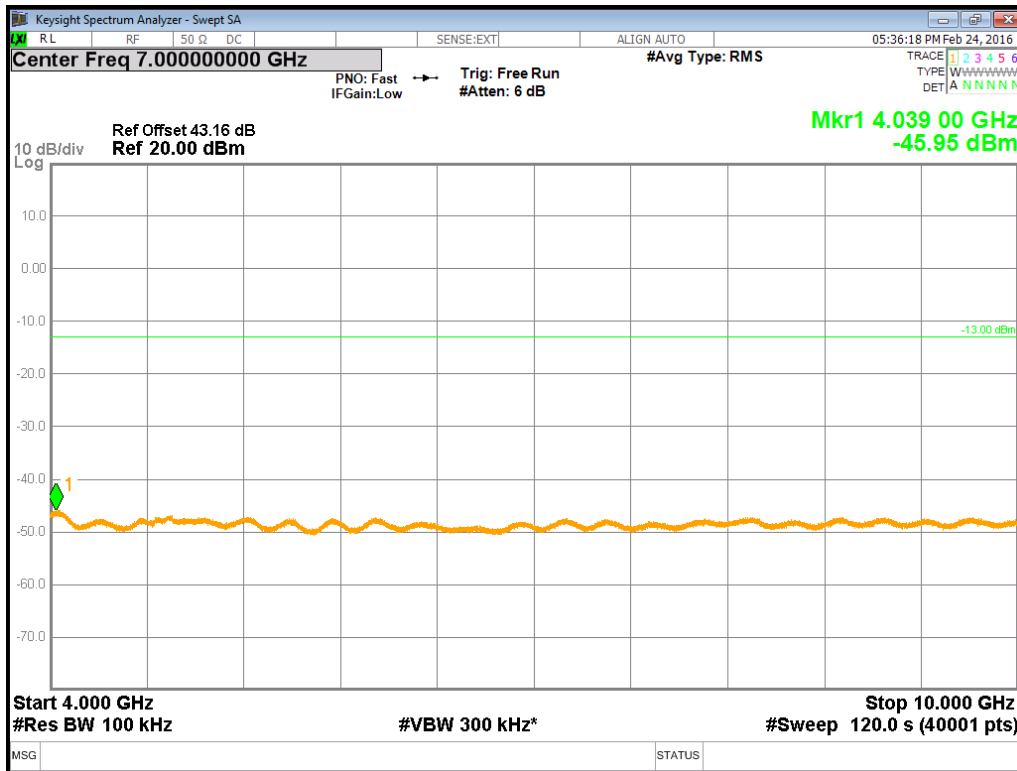
Channel Position T - QPSK / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position T - QPSK / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position T - QPSK / Bandwidth 5.0MHz - 4GHz - 10GHz

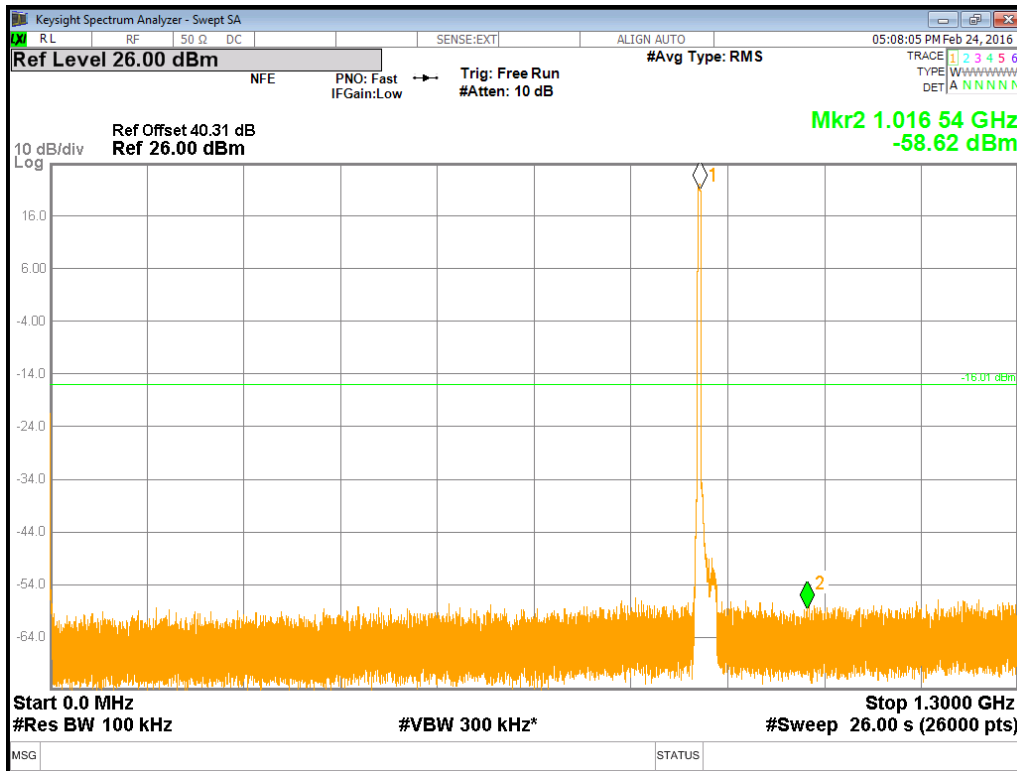


Configuration W-MIMO-SC

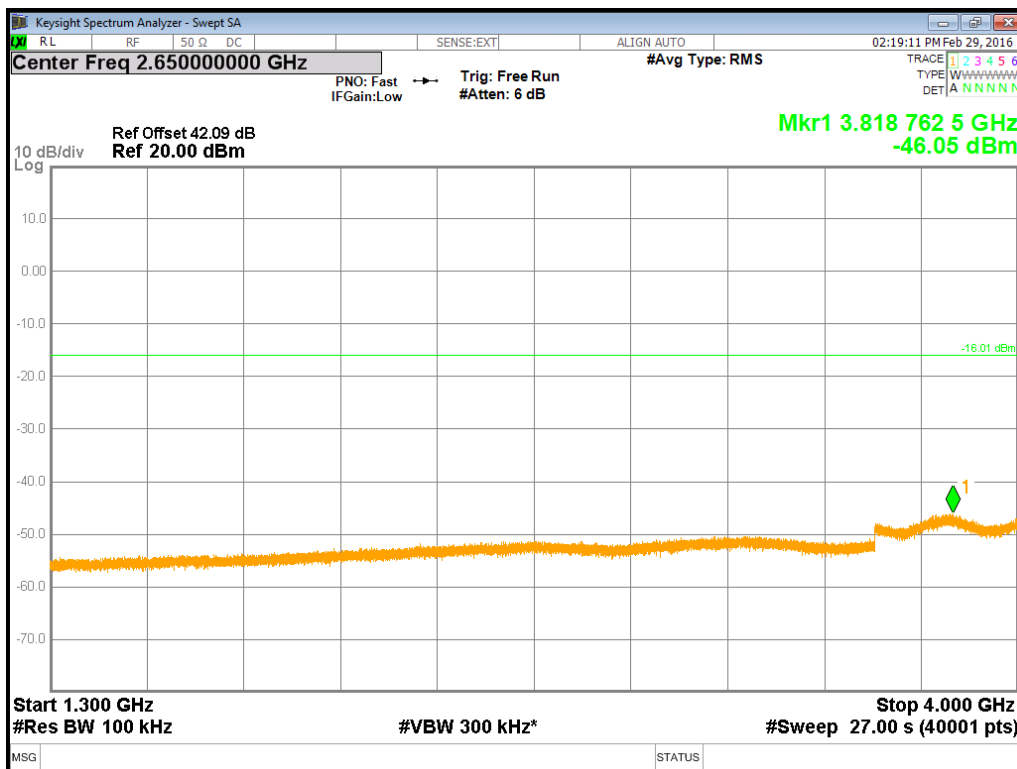
Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position B	5.0MHz	871.4MHz
Channel Position M	5.0MHz	881.4MHz
Channel Position T	5.0MHz	891.6MHz

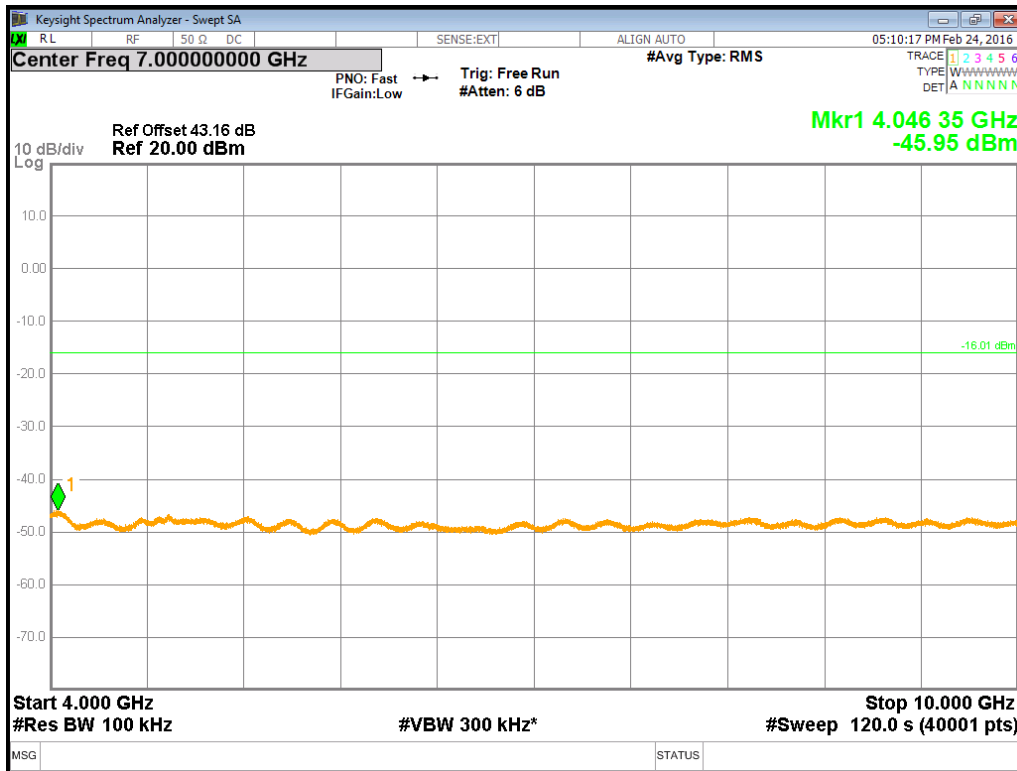
Channel Position B - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



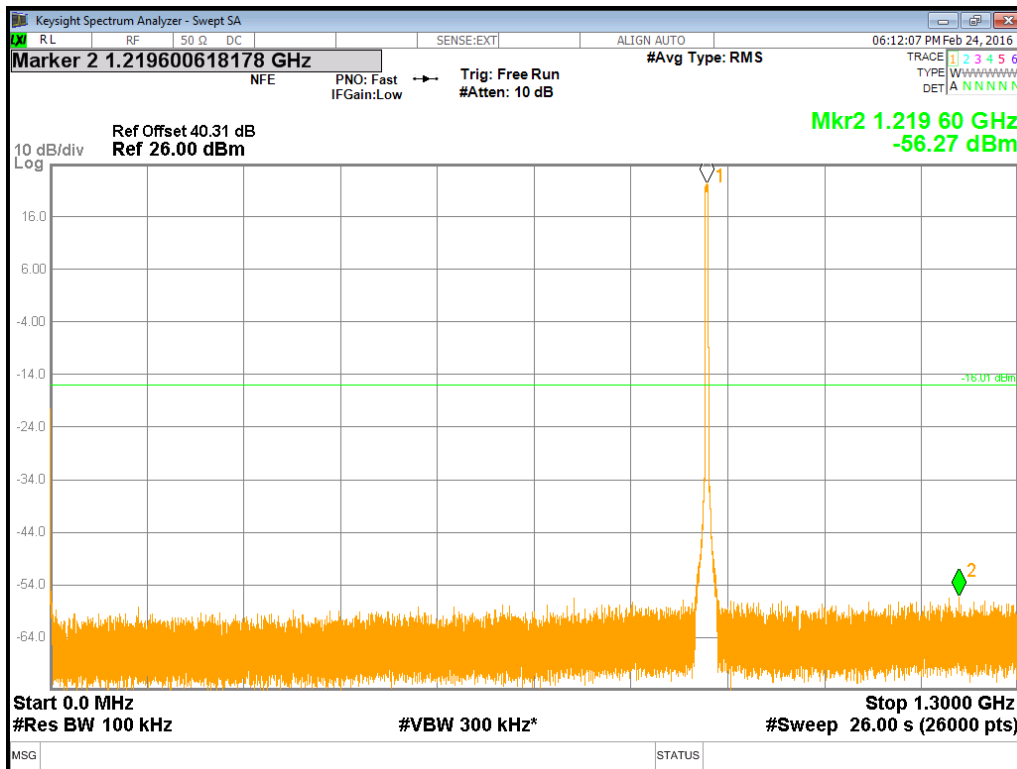
Channel Position B - 16QAM / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position B - 16QAM / Bandwidth 5.0MHz - 4GHz - 10GHz



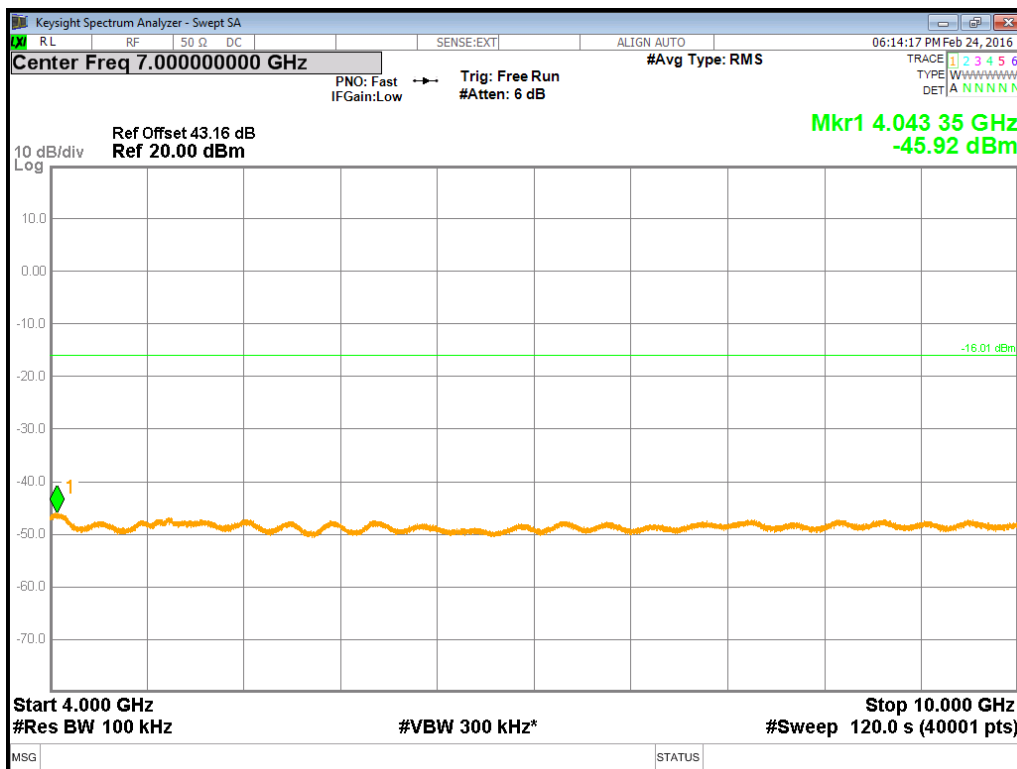
Channel Position M - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



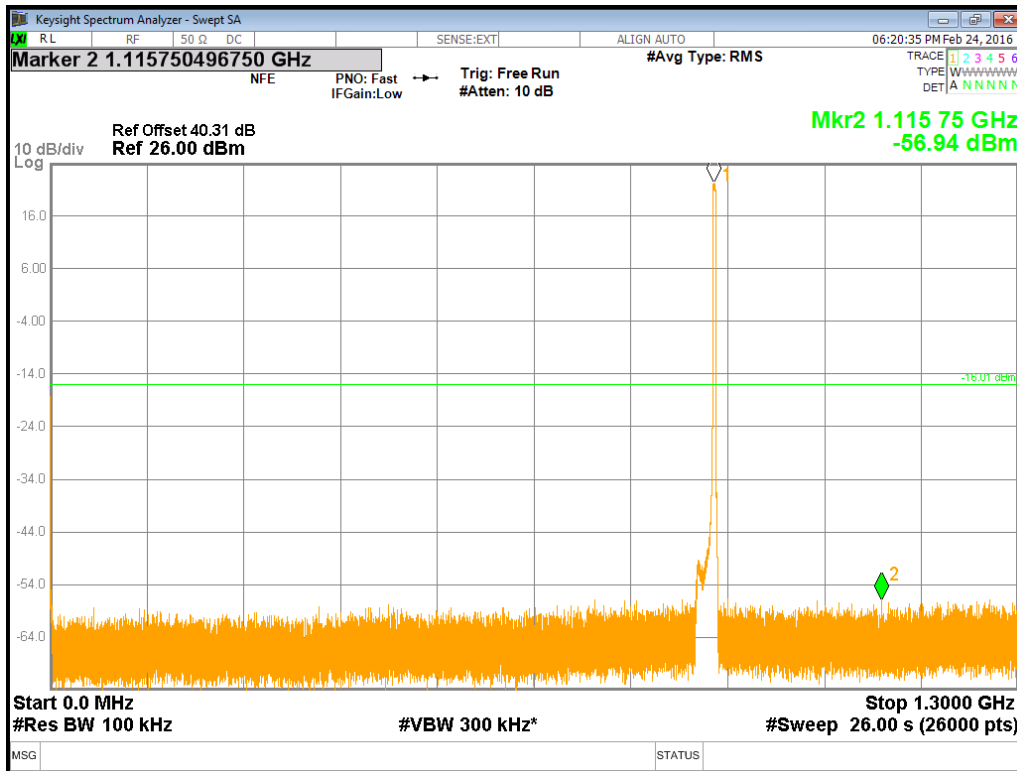
Channel Position M - 16QAM / Bandwidth 5.0MHz - 1.3GHz - 4GHz



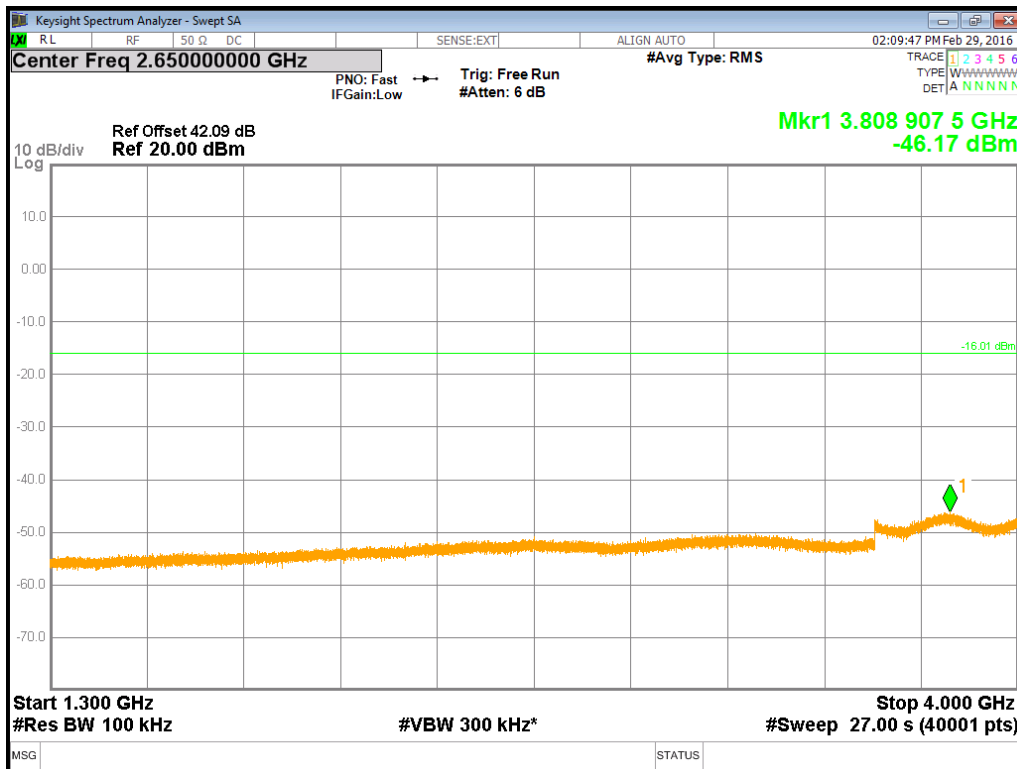
Channel Position M - 16QAM / Bandwidth 5.0MHz - 4GHz - 10GHz



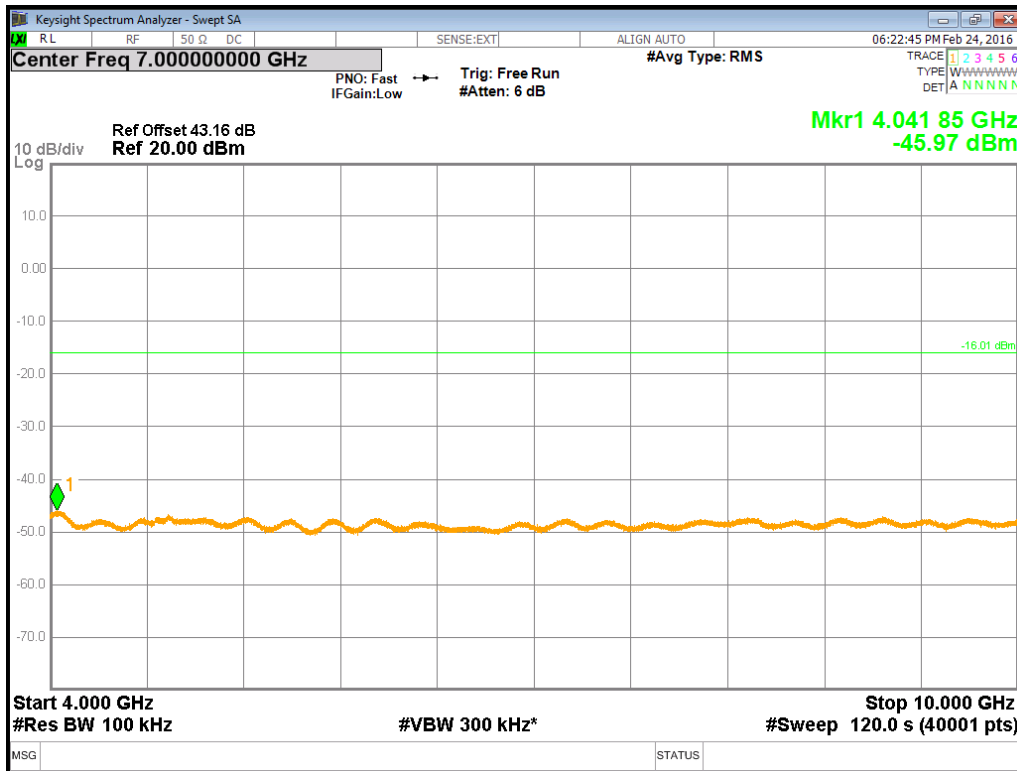
Channel Position T - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position T - 16QAM / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position T - 16QAM / Bandwidth 5.0MHz - 4GHz - 10GHz

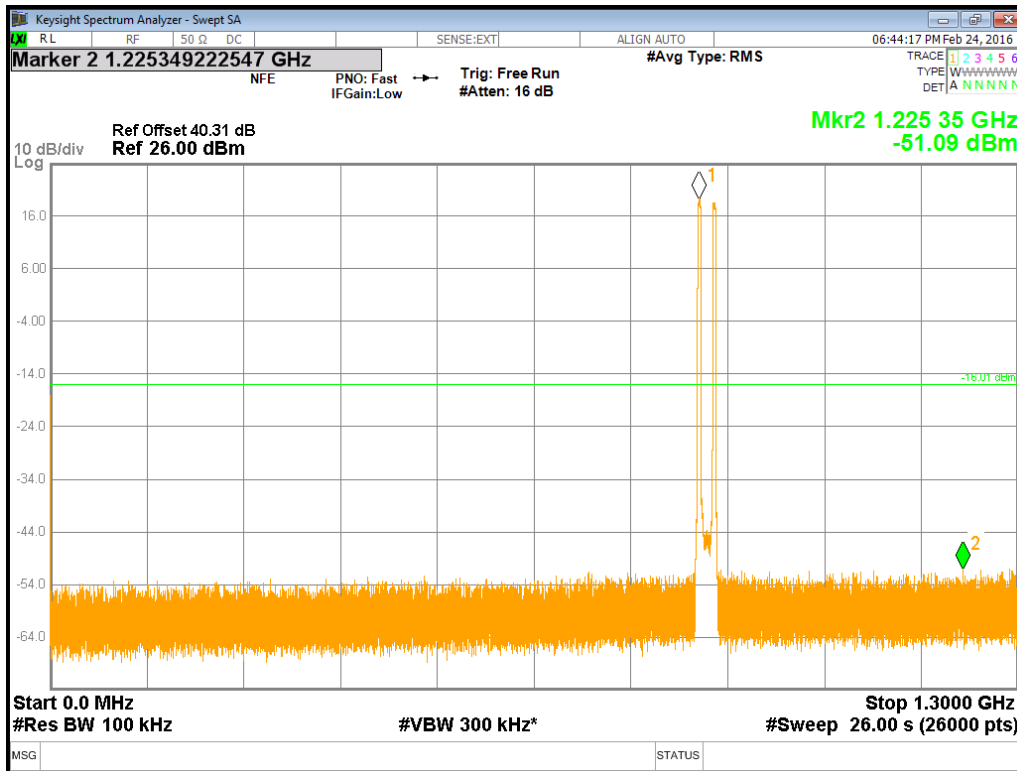


Configuration W-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	5.0MHz	871.4MHz + 891.6MHz

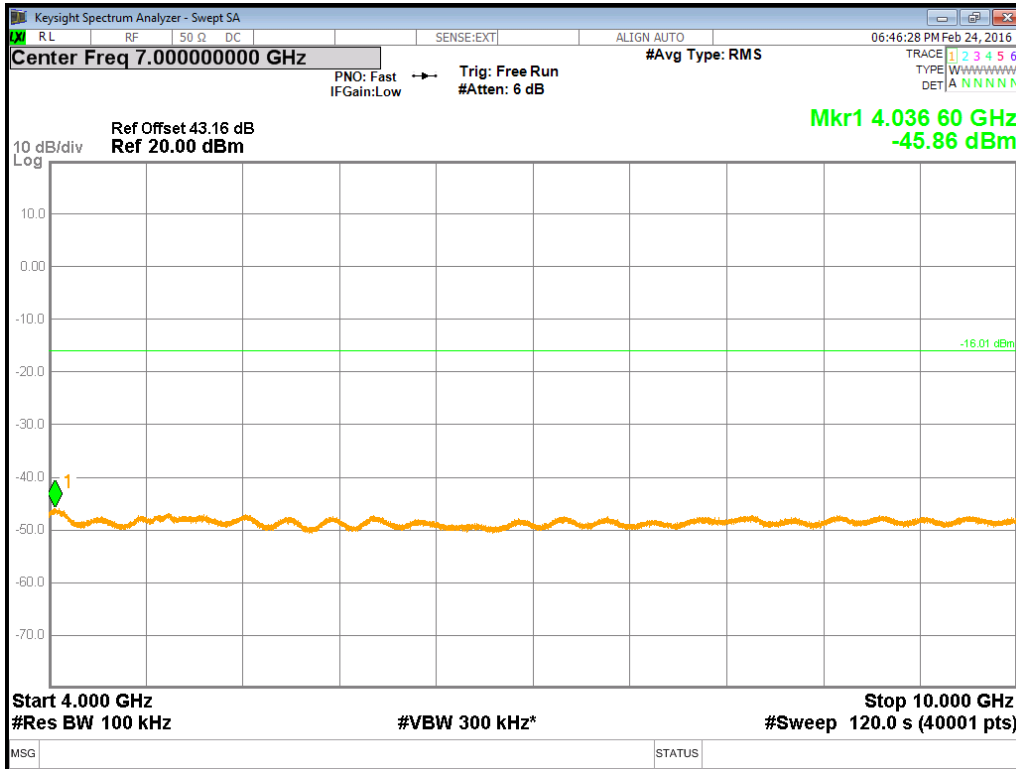
Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 4GHz - 10GHz

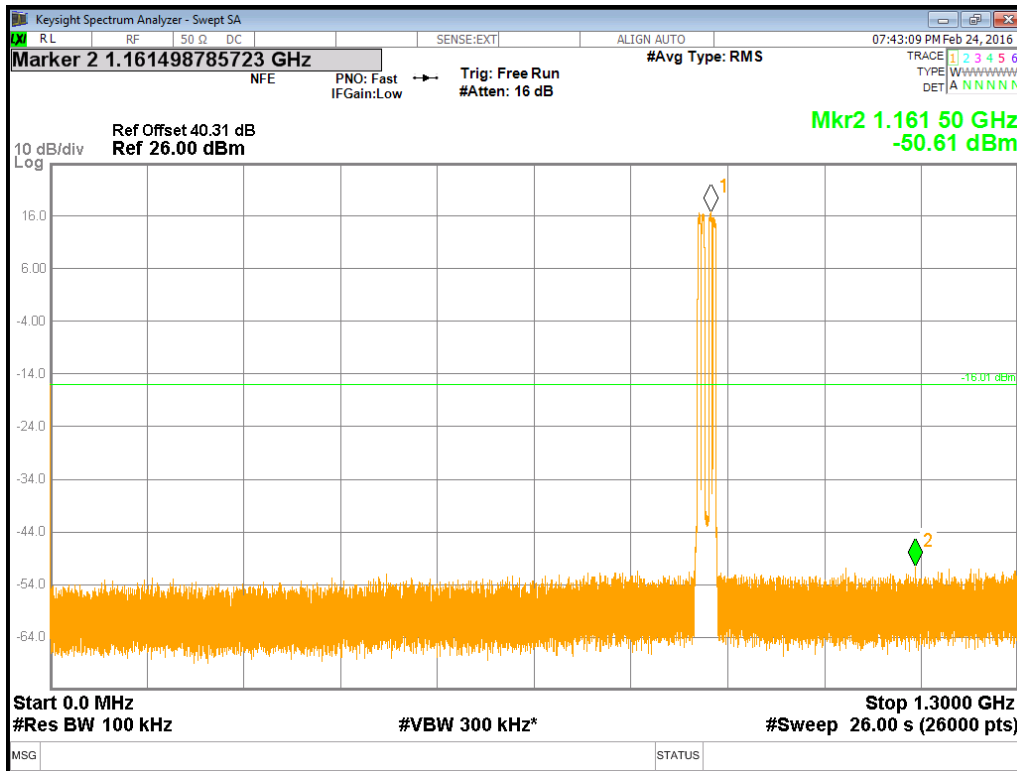


Configuration W-MIMO-MC 2 (4C)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	5.0MHz	871.4MHz + 876.4 MHz + 886.6 MHz + 891.6MHz

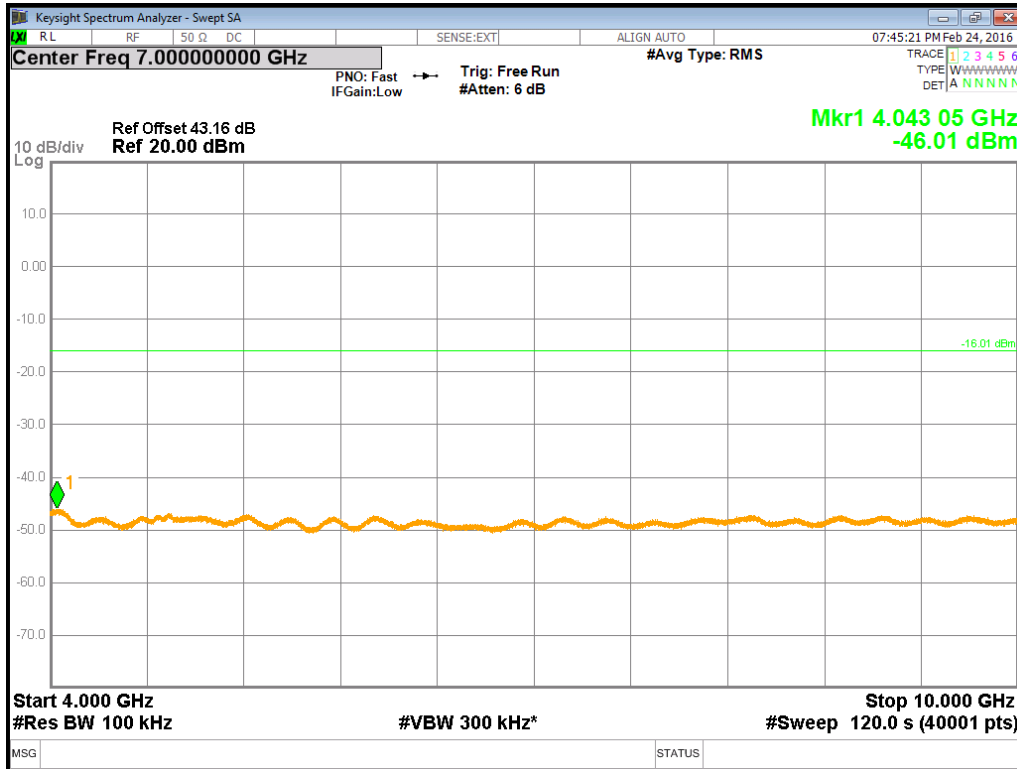
Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 4GHz - 10GHz

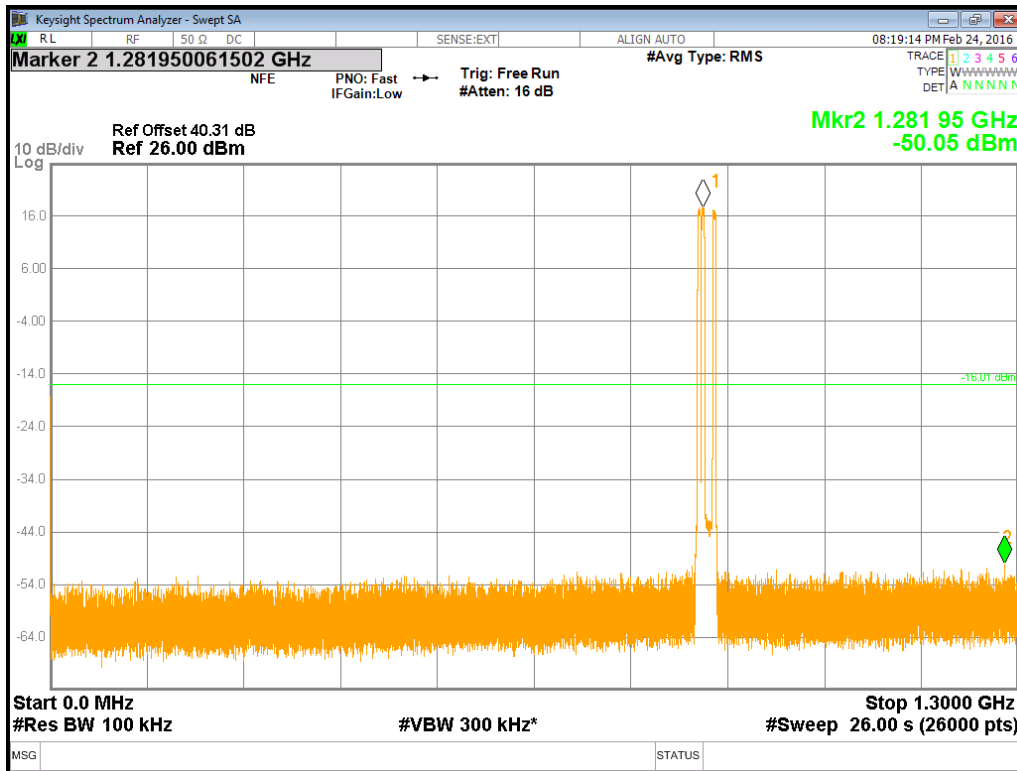


Configuration W-MIMO-MC 3 (3C)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	5.0MHz	871.4MHz + 876.4 MHz + 891.6MHz

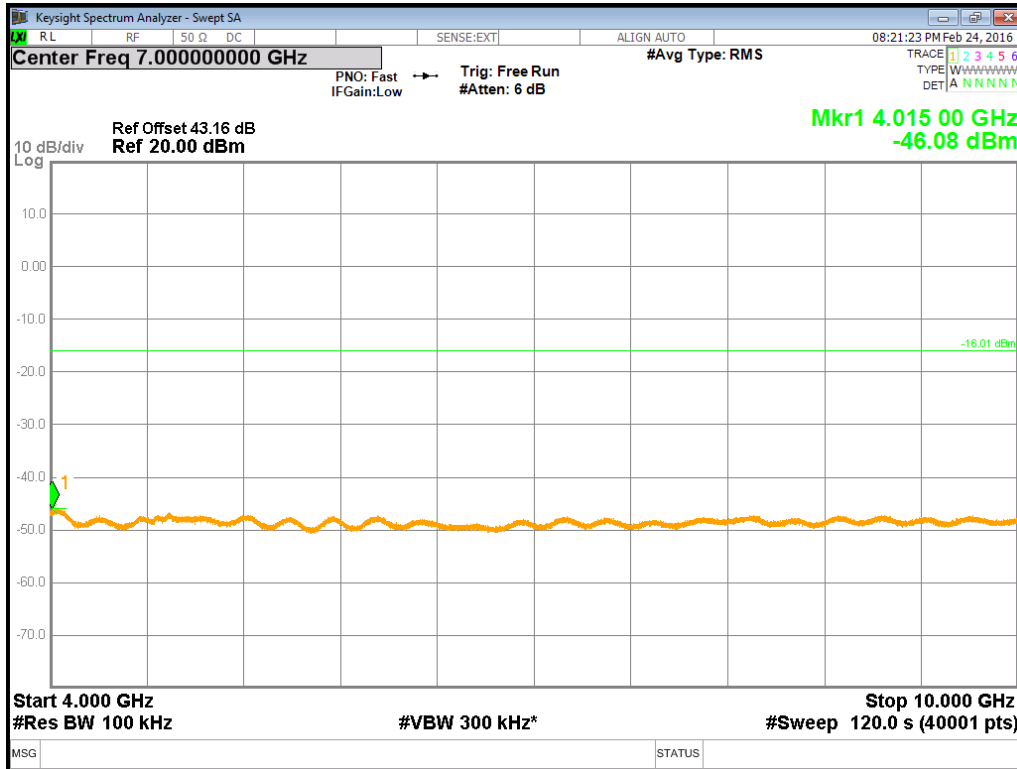
Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 1.3kHz - 4.0GHz



Channel Position M_{RFBW} - 16QAM / Bandwidth 5.0MHz - 4.0kHz - 10.0GHz



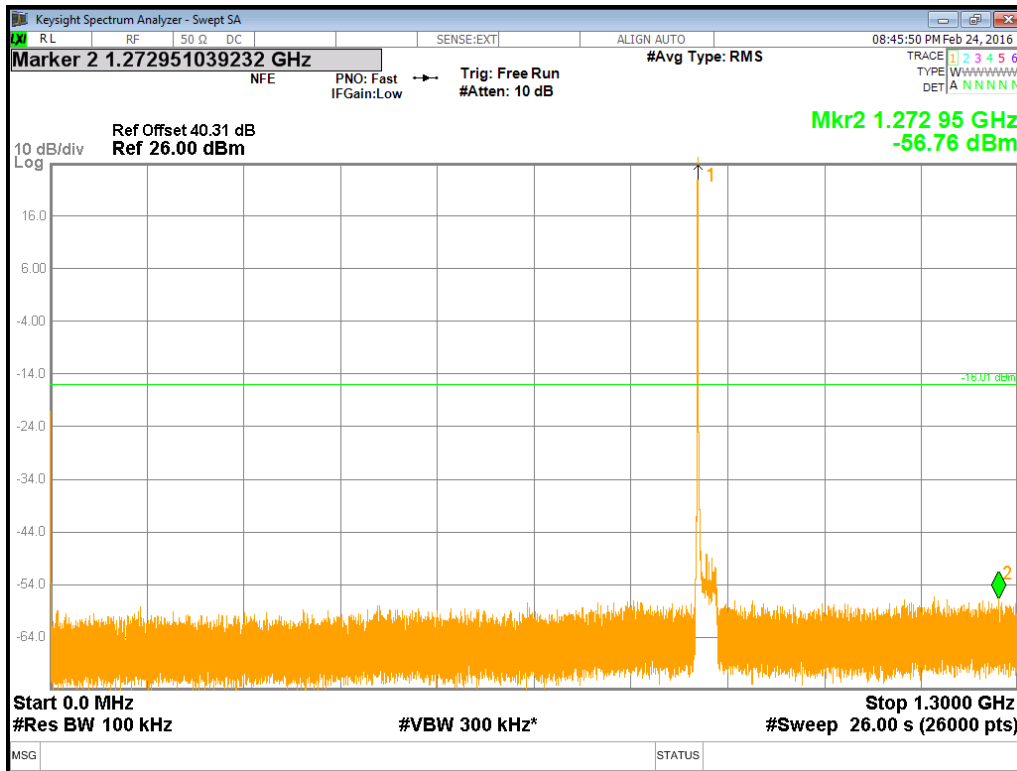
Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port

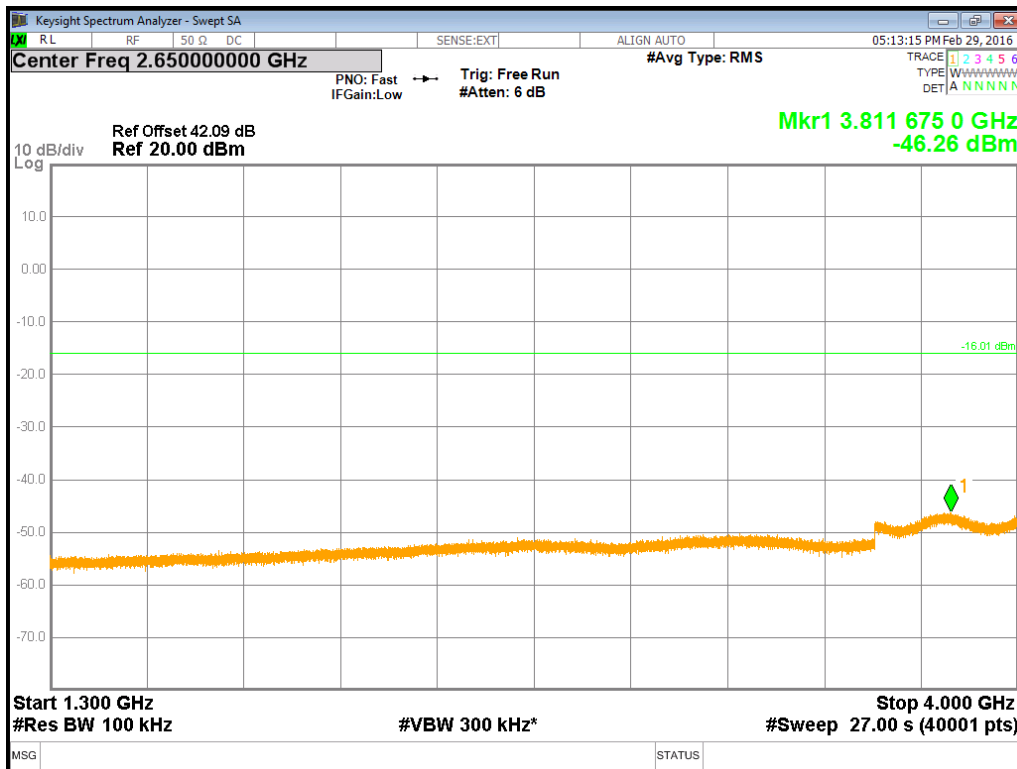
Channel Position	Bandwidth	Channel Frequency
Channel Position B	1.4MHz	869.7MHz
Channel Position M	1.4MHz	881.5MHz
Channel Position T	1.4MHz	893.3MHz

Channel Position	Bandwidth	Channel Frequency
Channel Position B	10.0MHz	874.0MHz
Channel Position M	10.0MHz	881.5MHz
Channel Position T	10.0MHz	889.0MHz

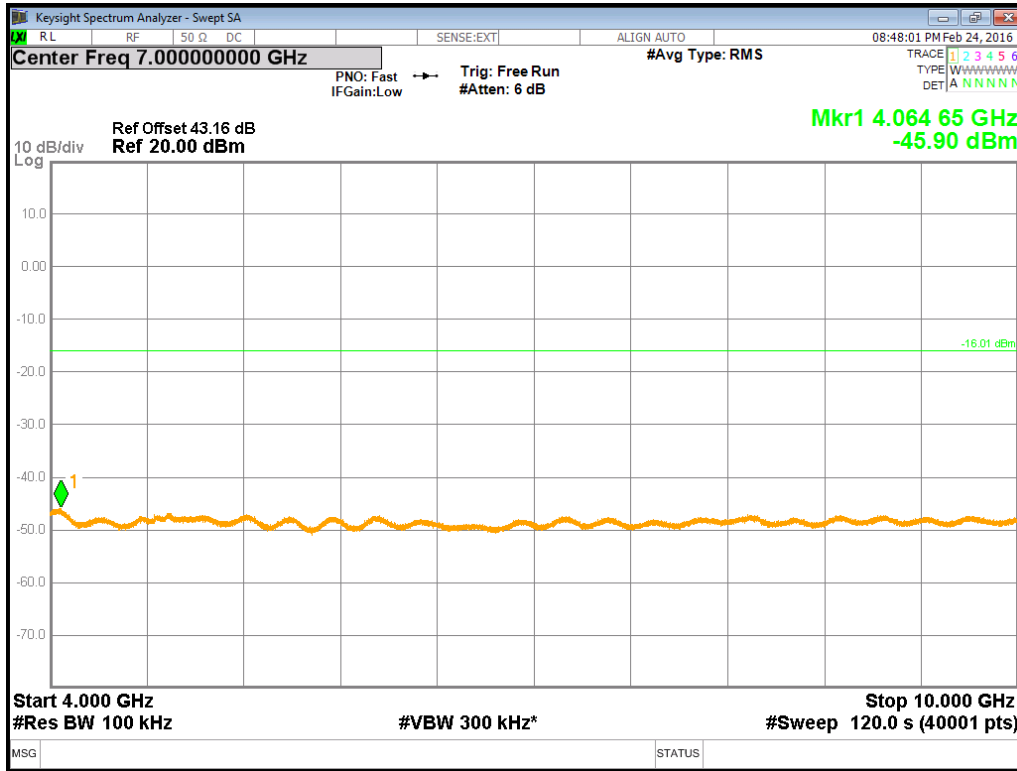
Channel Position B - QPSK / Bandwidth 1.4MHz - 9kHz - 1.3GHz



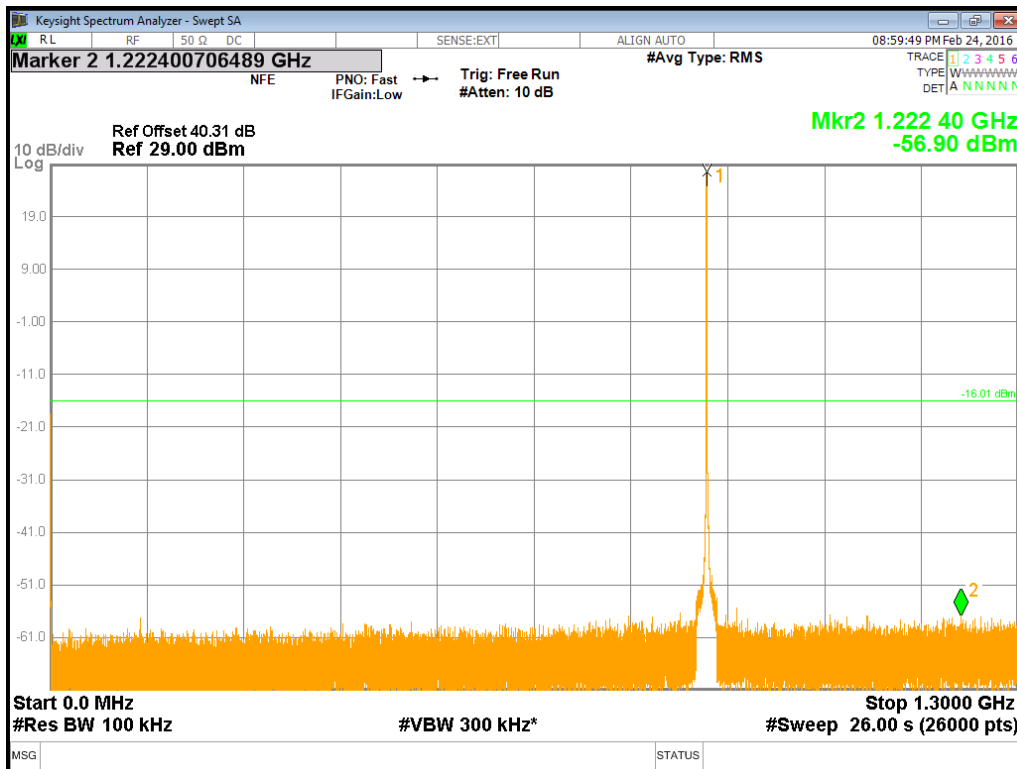
Channel Position B - QPSK / Bandwidth 1.4MHz - 1.3GHz - 4GHz



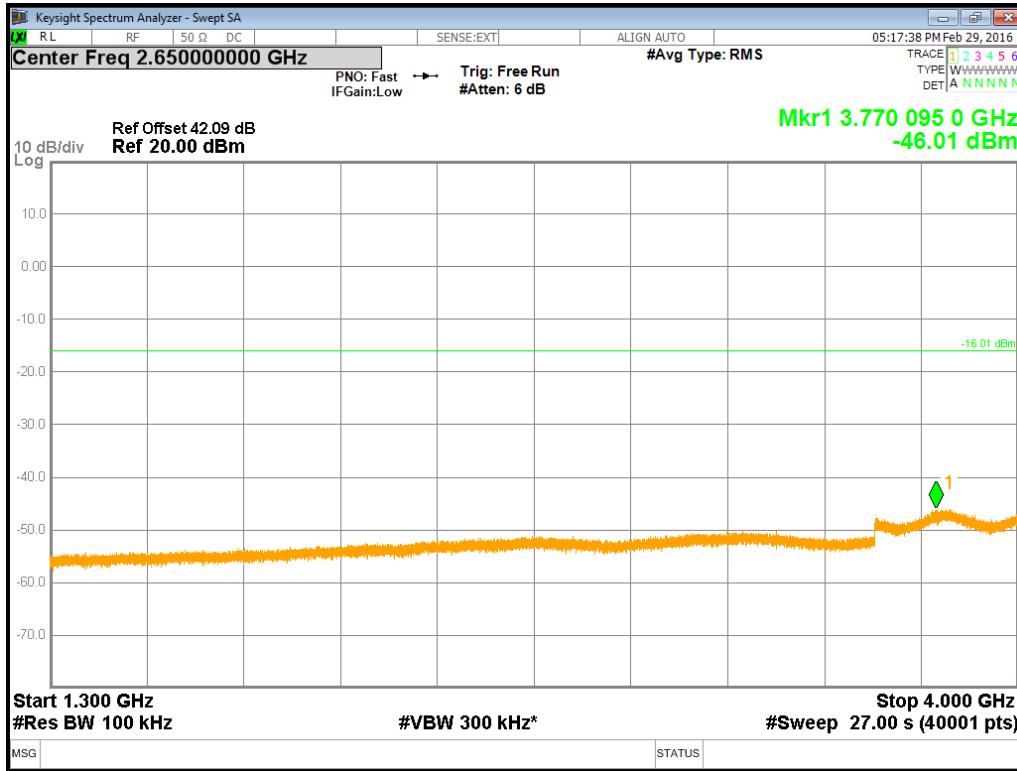
Channel Position B - QPSK / Bandwidth 1.4MHz - 4GHz - 10GHz



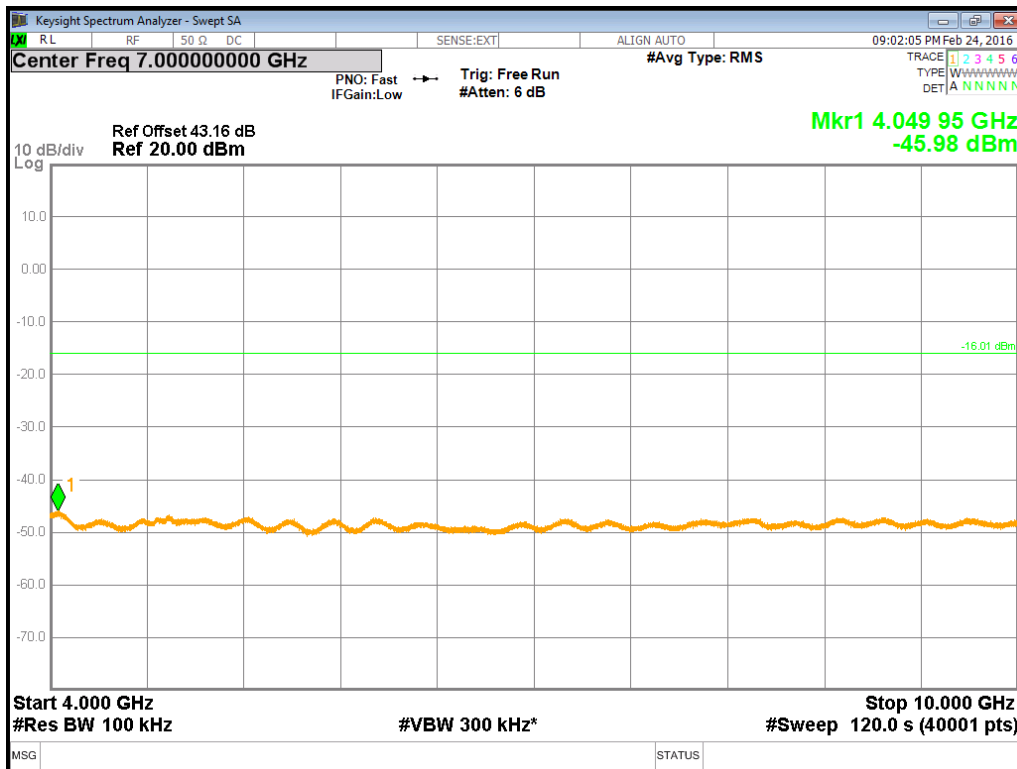
Channel Position M - QPSK / Bandwidth 1.4MHz - 9kHz - 1.3GHz



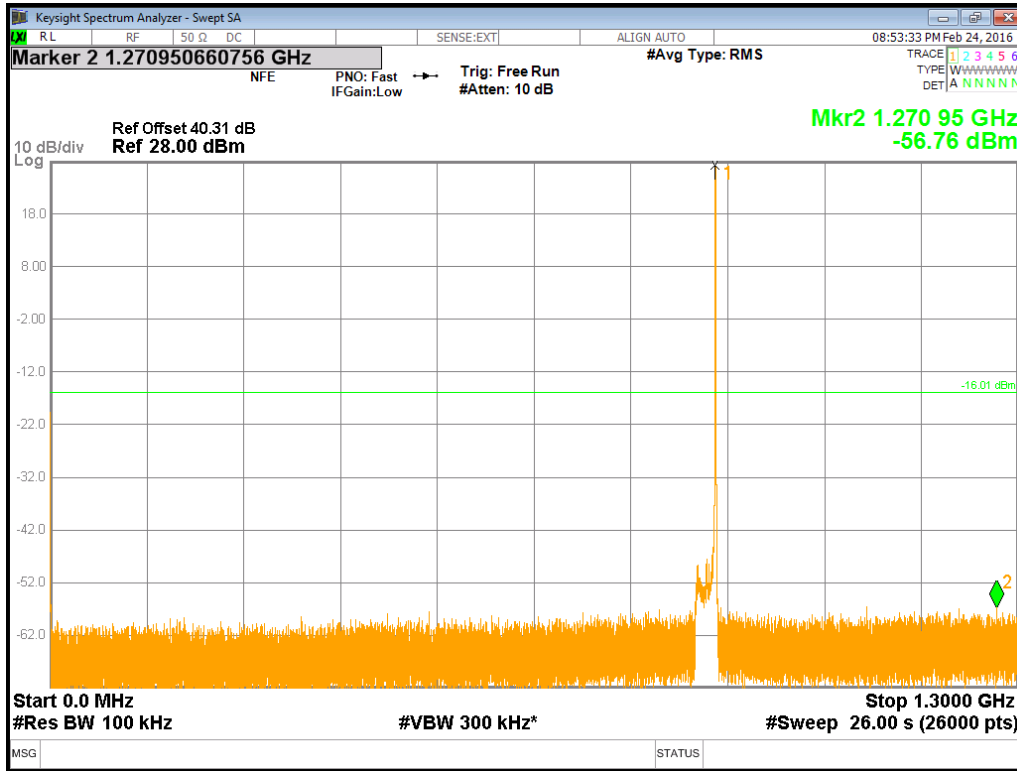
Channel Position M - QPSK / Bandwidth 1.4MHz - 1.3GHz - 4GHz



Channel Position M - QPSK / Bandwidth 1.4MHz - 4GHz - 10GHz



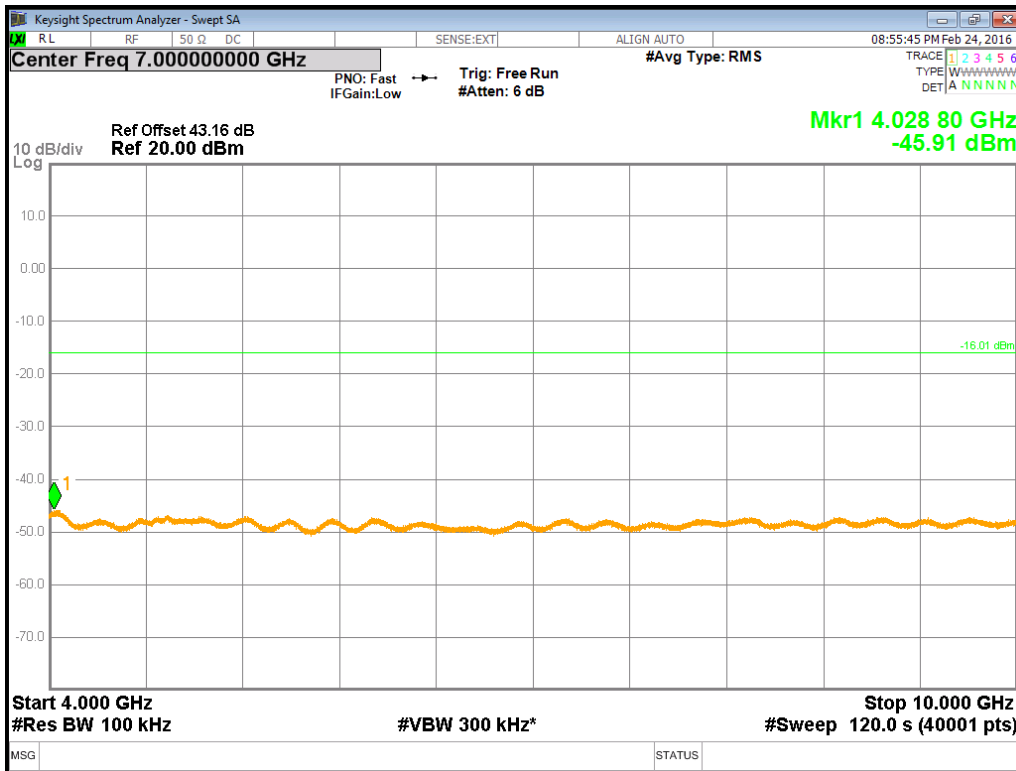
Channel Position T - QPSK / Bandwidth 1.4MHz - 9kHz - 1.3GHz



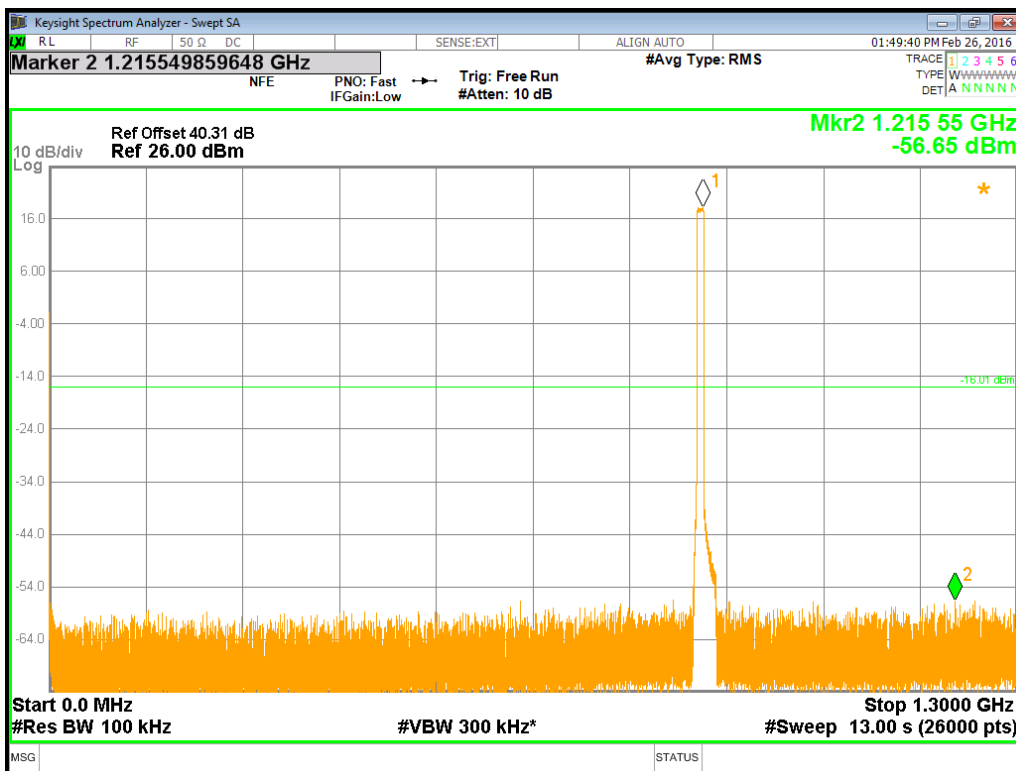
Channel Position T - QPSK / Bandwidth 1.4MHz - 1.3GHz - 4GHz



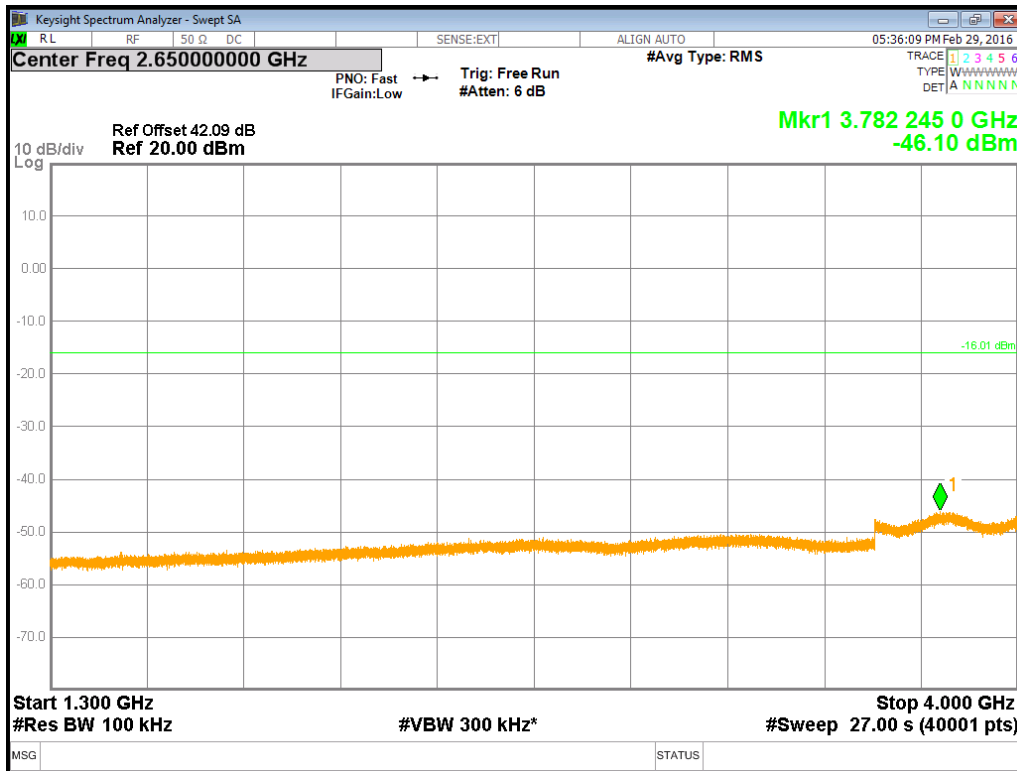
Channel Position T - QPSK / Bandwidth 1.4MHz - 4GHz - 10GHz



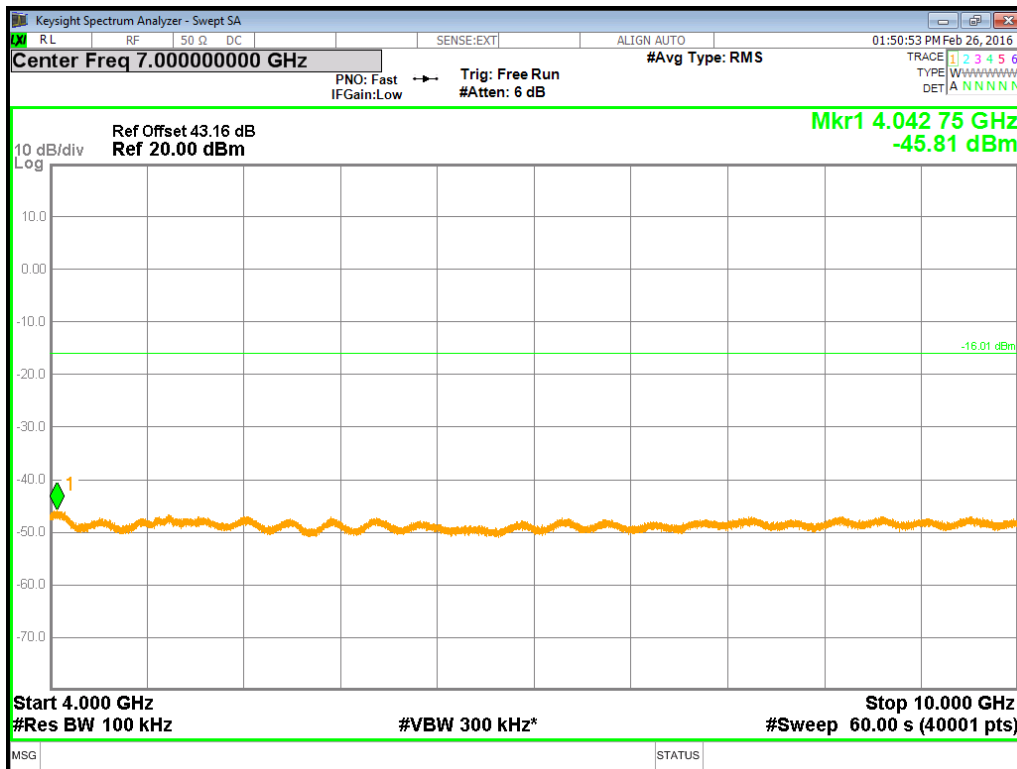
Channel Position B - QPSK / Bandwidth 10.0MHz - 9kHz - 1.3GHz



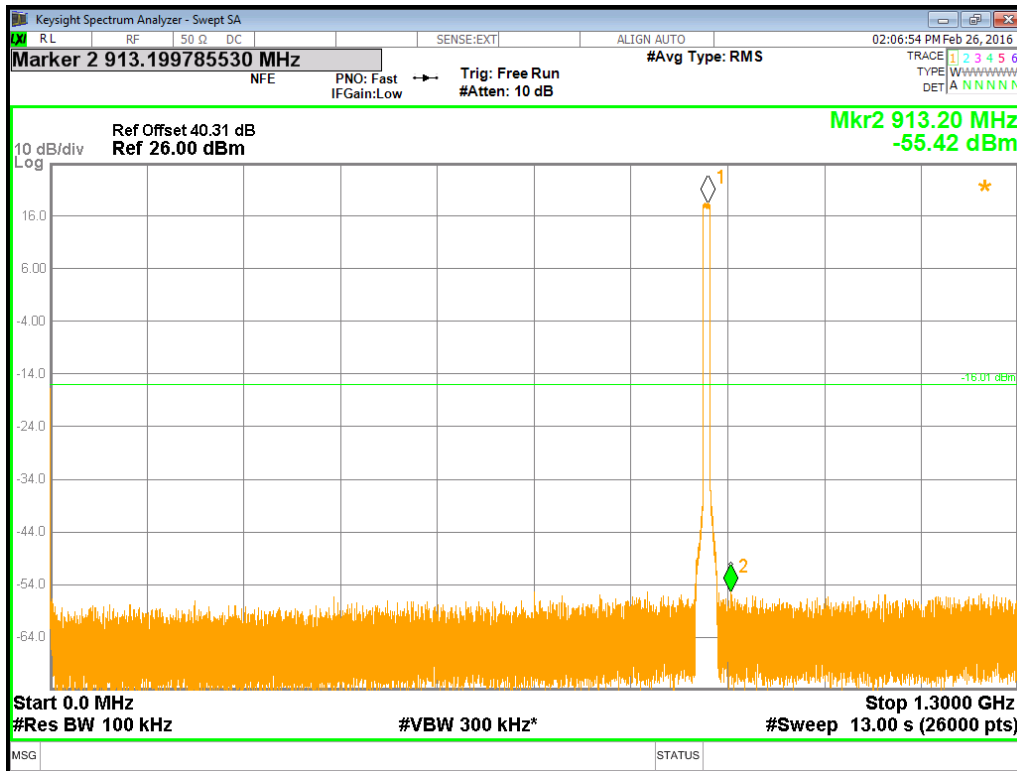
Channel Position B - QPSK / Bandwidth 10.0MHz - 1.3GHz - 4GHz



Channel Position B - QPSK / Bandwidth 10.0MHz - 4GHz - 10GHz



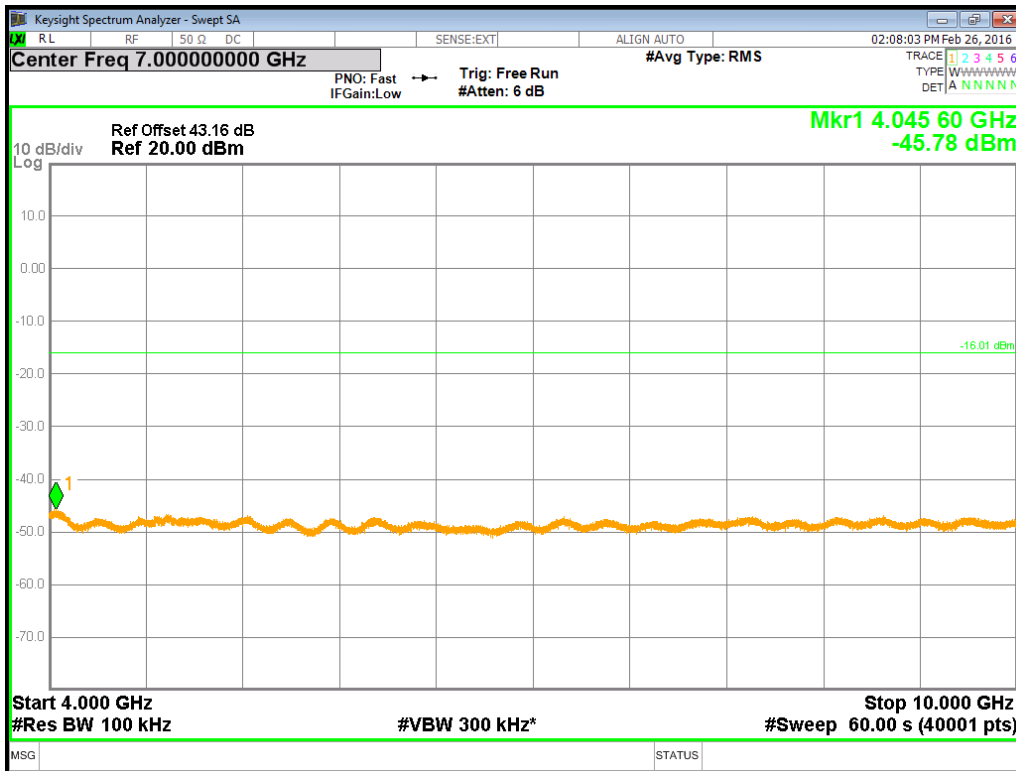
Channel Position M - QPSK / Bandwidth 10.0MHz - 9kHz - 1.3GHz



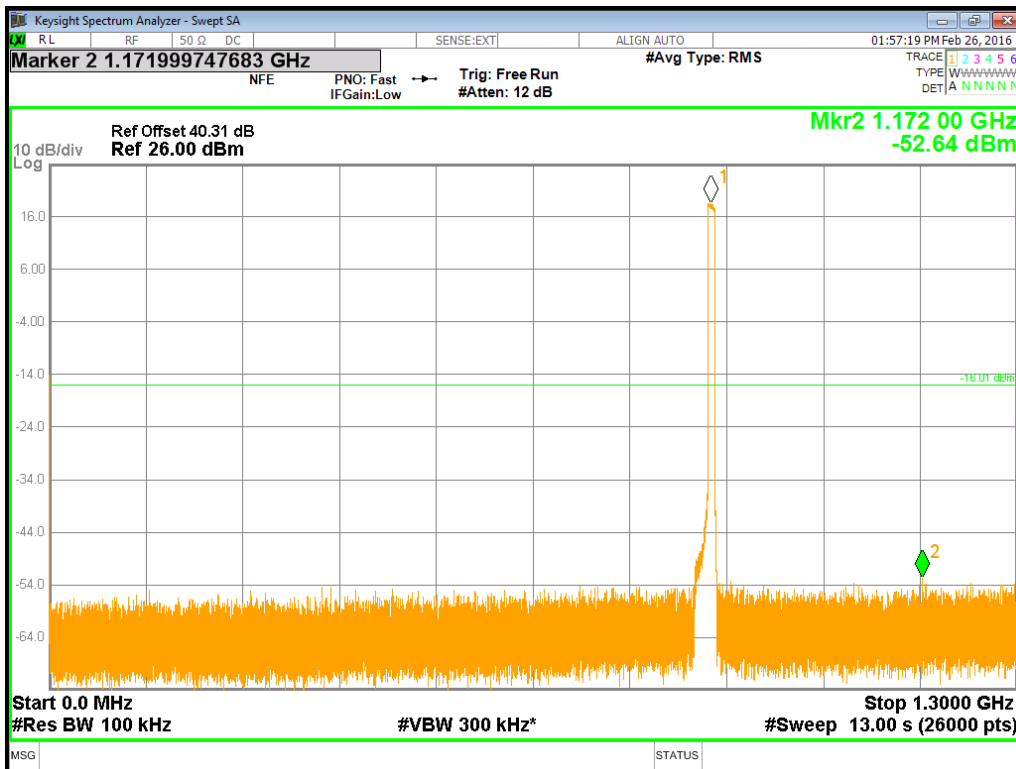
Channel Position M - QPSK / Bandwidth 10.0MHz - 1.3GHz - 4GHz



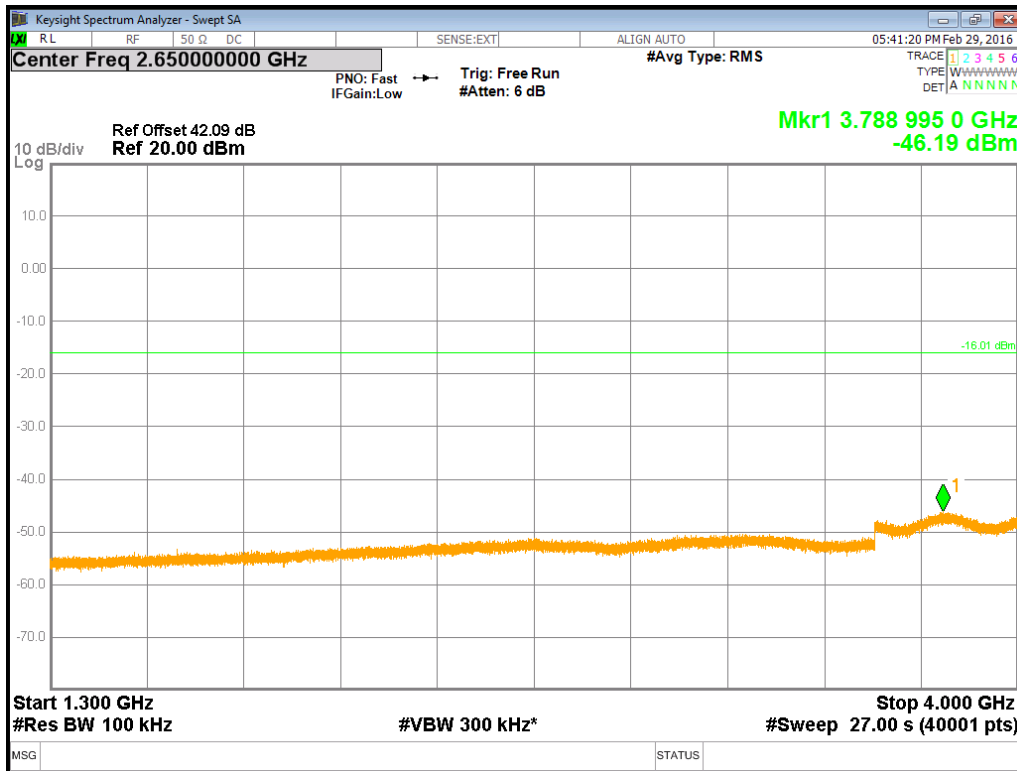
Channel Position M - QPSK / Bandwidth 10.0MHz - 4GHz - 10GHz



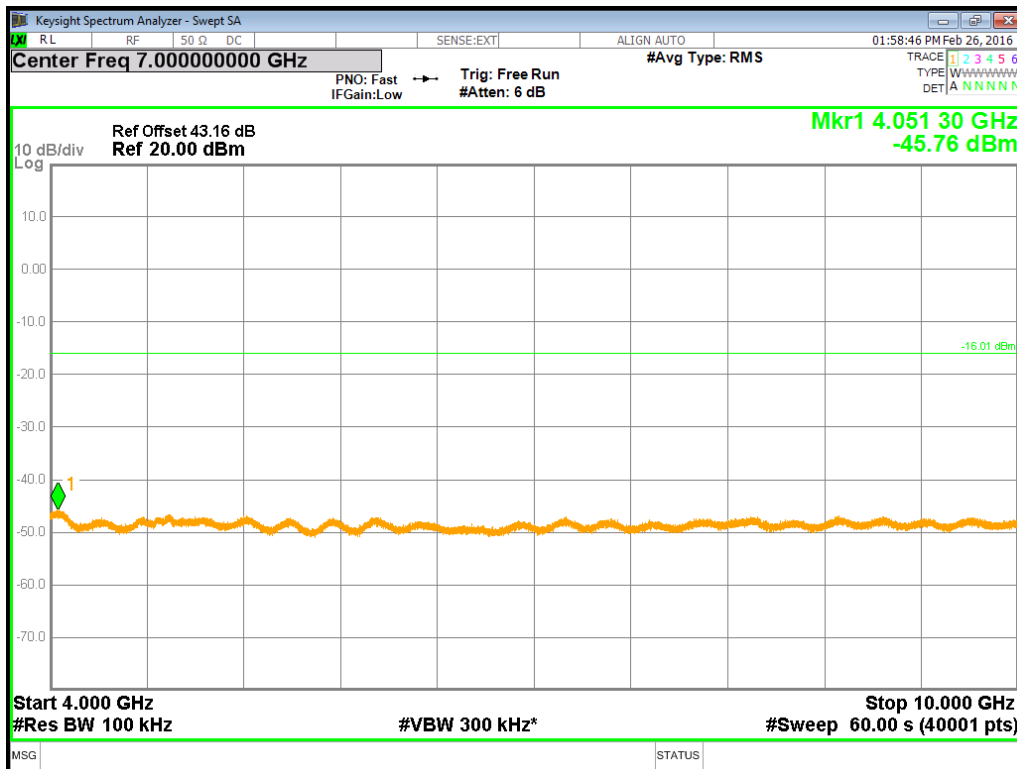
Channel Position T - QPSK / Bandwidth 10.0MHz - 9kHz - 1.3GHz



Channel Position T - QPSK / Bandwidth 10.0MHz - 1.3GHz - 4GHz



Channel Position T - QPSK / Bandwidth 10.0MHz - 4GHz - 10GHz

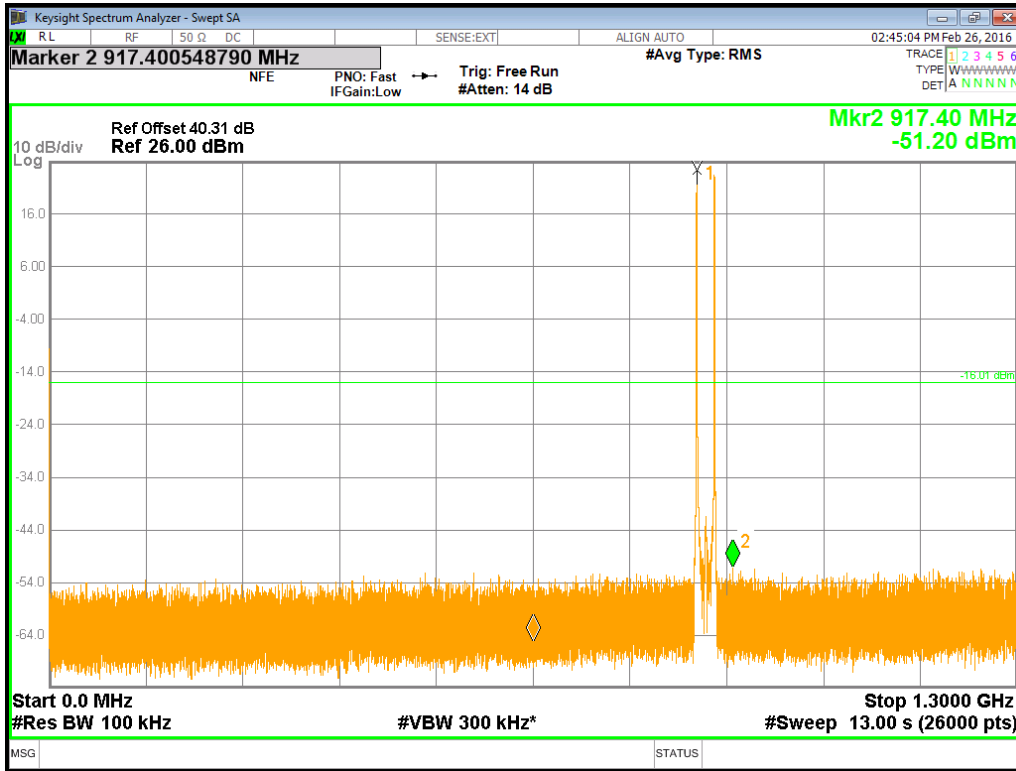


Configuration L-MIMO-MC 1 (2C)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	1.4MHz	869.7MHz + 893.3MHz
Channel Position M_{RFBW}	3.0MHz	870.5MHz + 892.5MHz
Channel Position M_{RFBW}	5.0MHz	871.5MHz + 891.5MHz
Channel Position M_{RFBW}	10.0MHz	874.0MHz + 889.0MHz

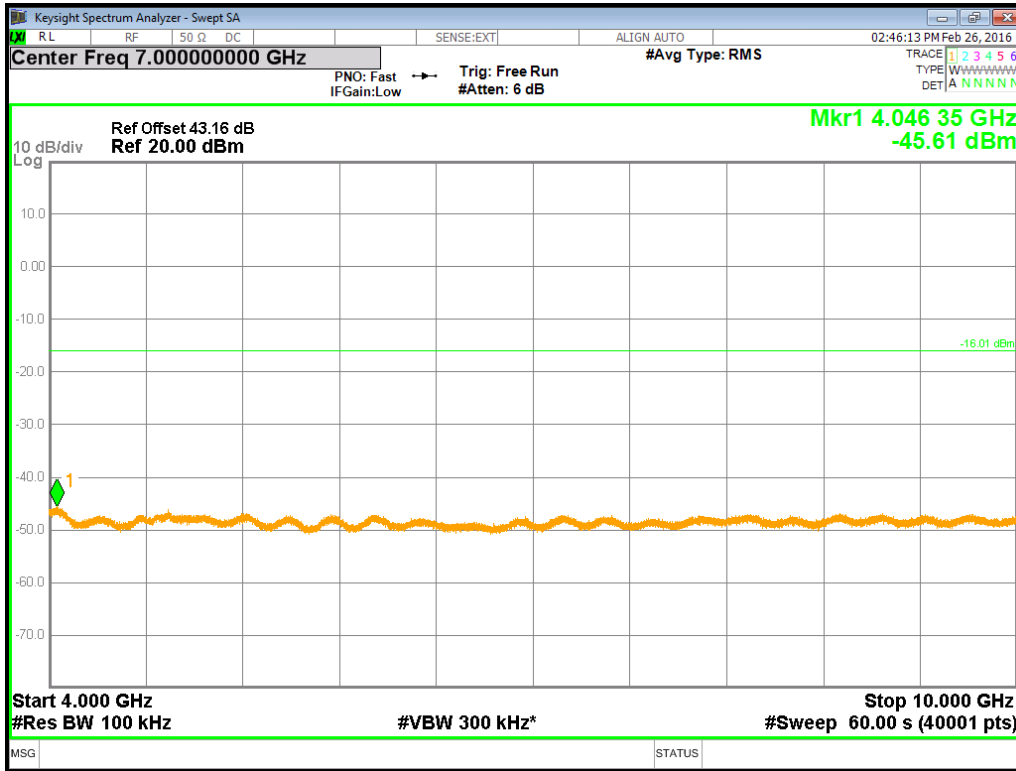
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 9kHz - 1.3GHz



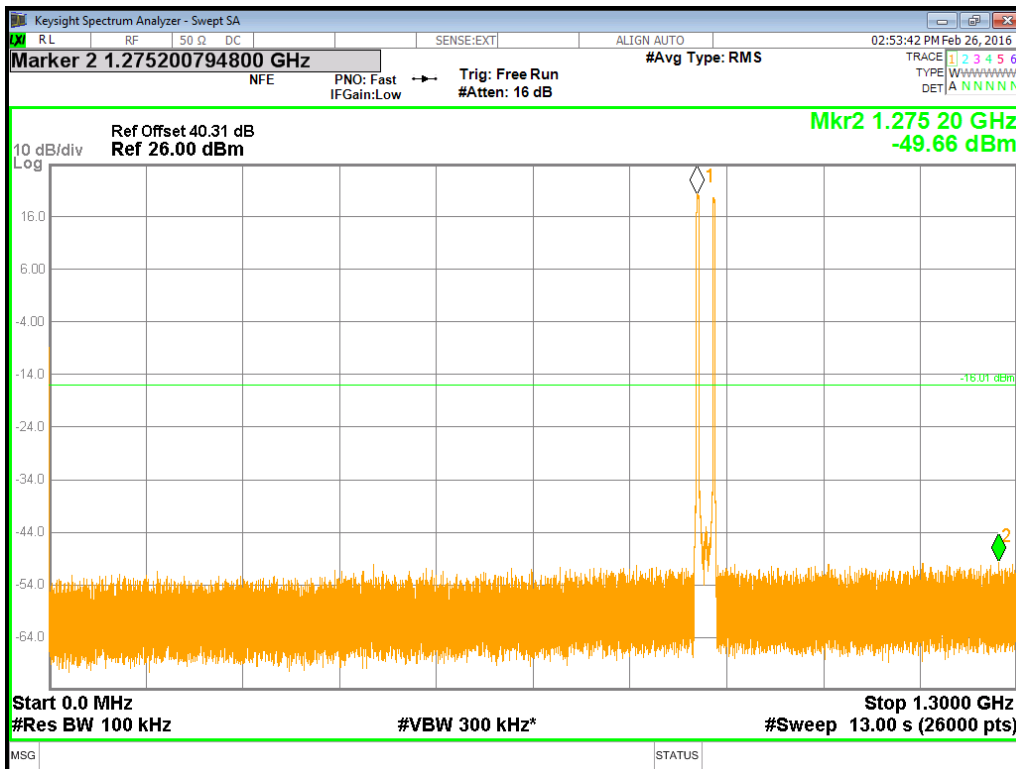
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 4GHz - 10GHz



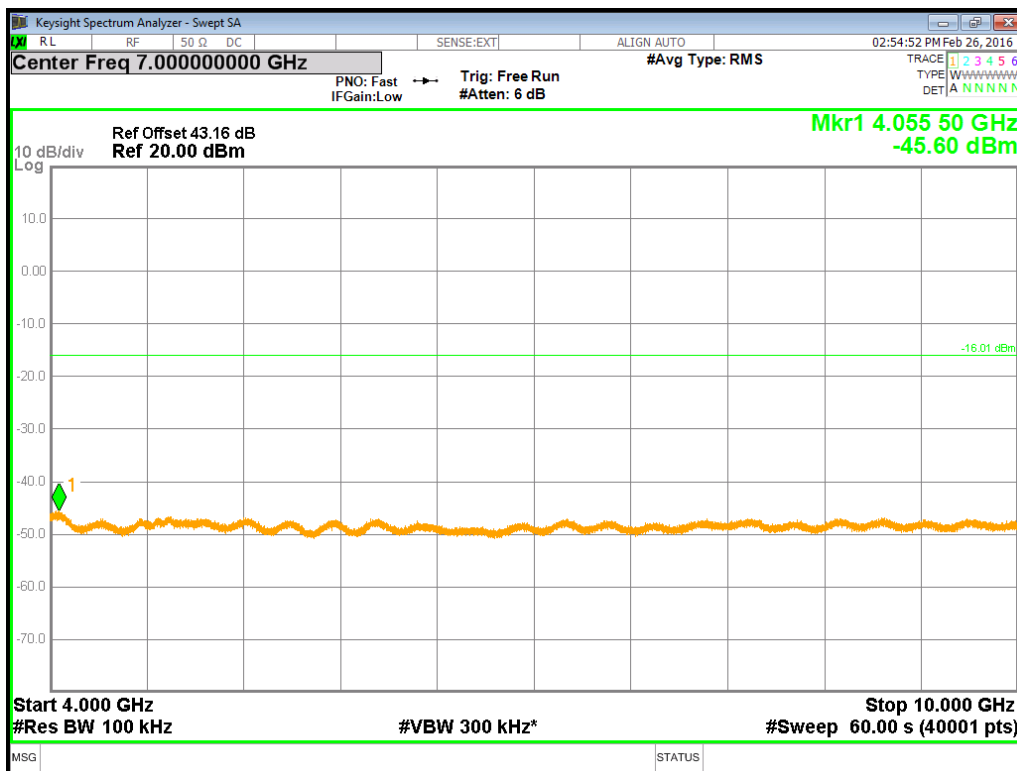
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0MHz - 9kHz - 1.3GHz



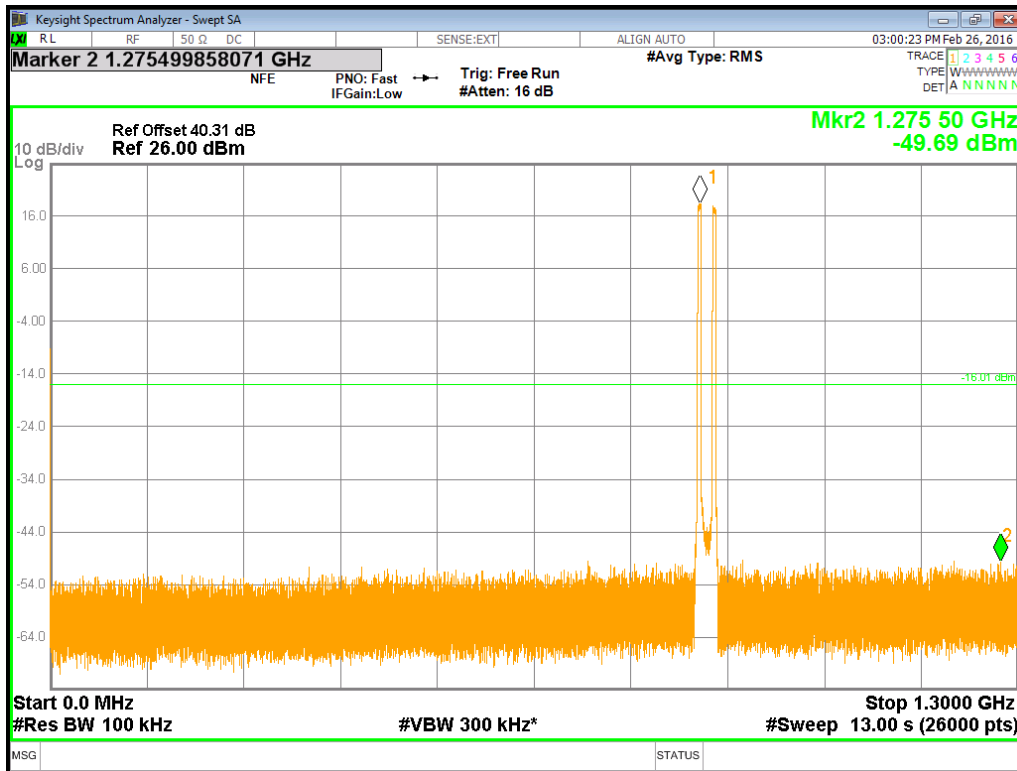
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0MHz - 1.3GHz - 4GHz



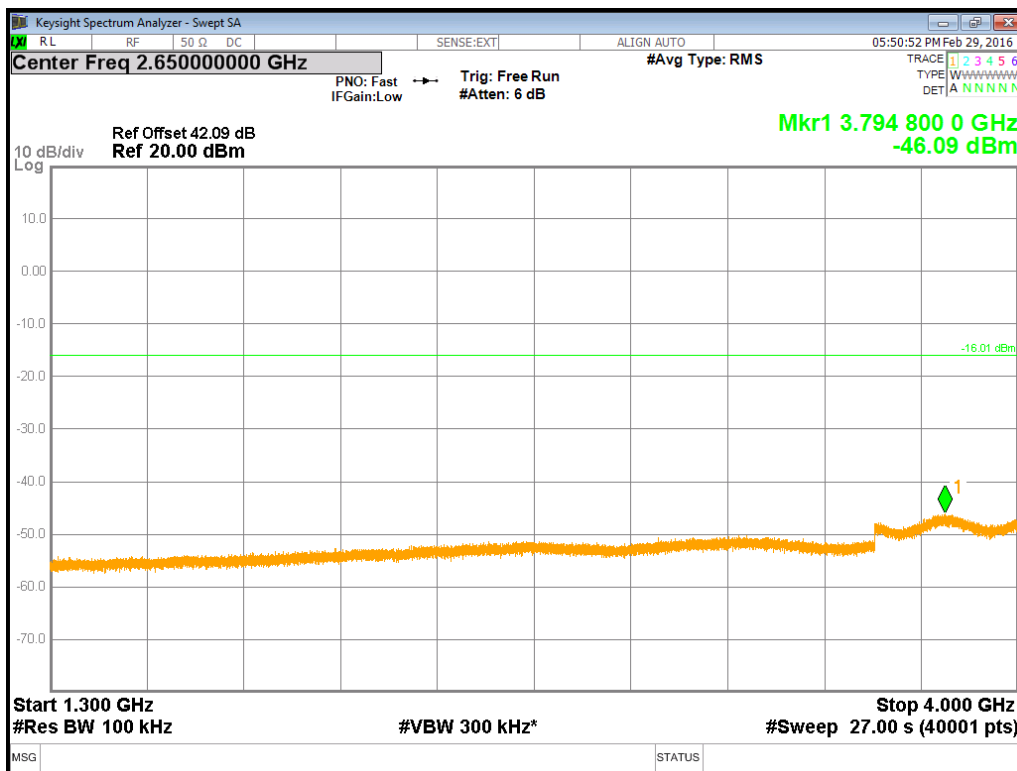
Channel Position M_{RFBW} - QPSK / Bandwidth 3.0MHz - 4GHz - 10GHz



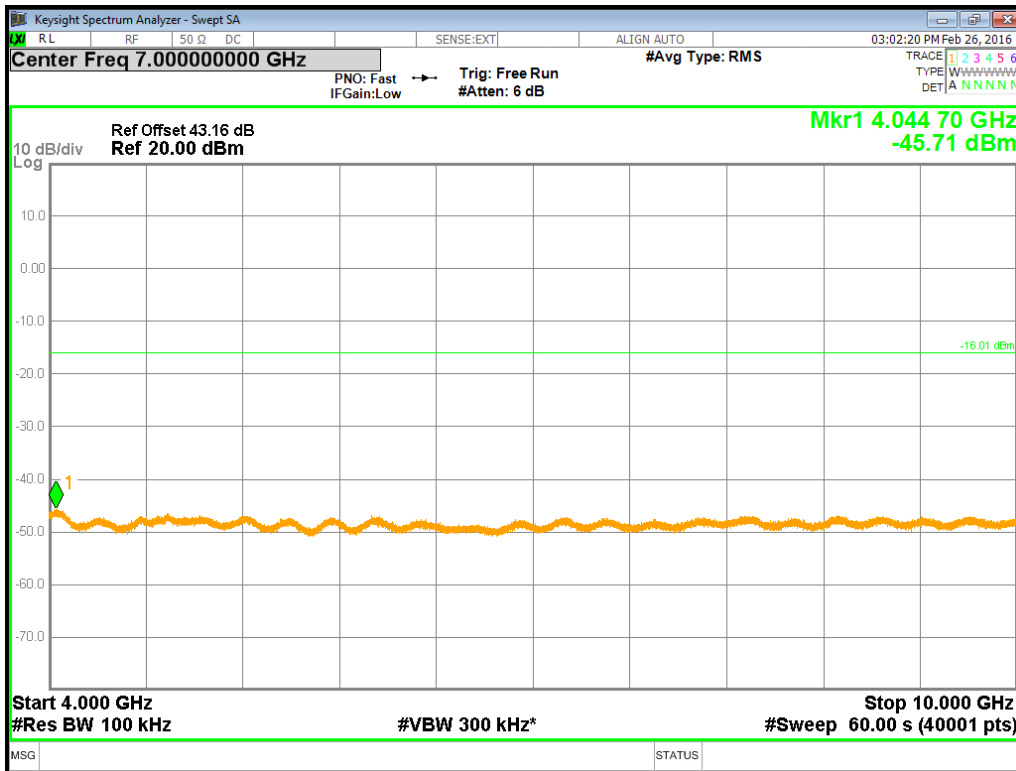
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 9kHz - 1.3GHz



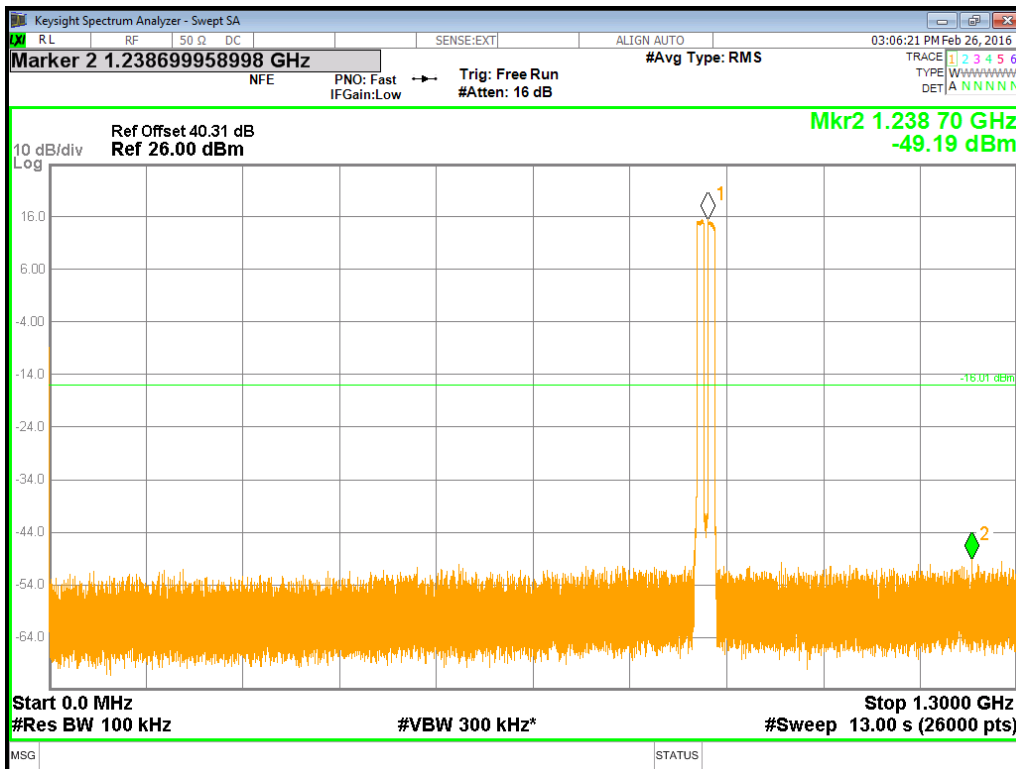
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 1.3GHz - 4GHz



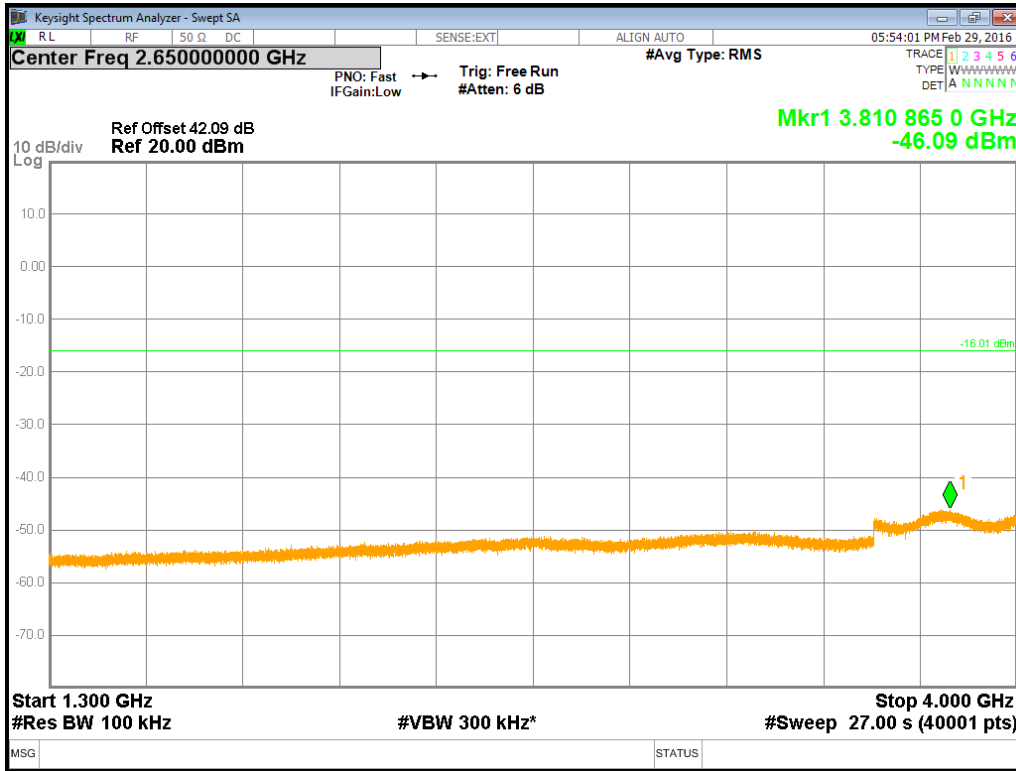
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 4GHz - 10GHz



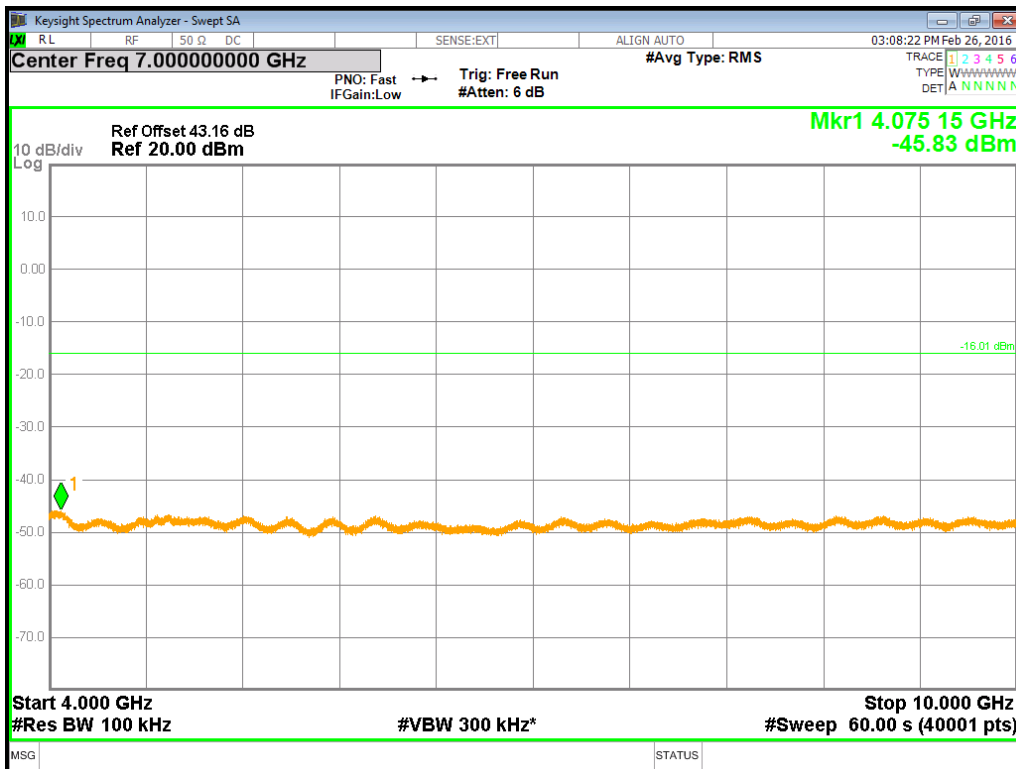
Channel Position M_{RFBW} - QPSK / Bandwidth 10.0MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - QPSK / Bandwidth 10.0MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - QPSK / Bandwidth 10.0MHz - 4GHz - 10GHz

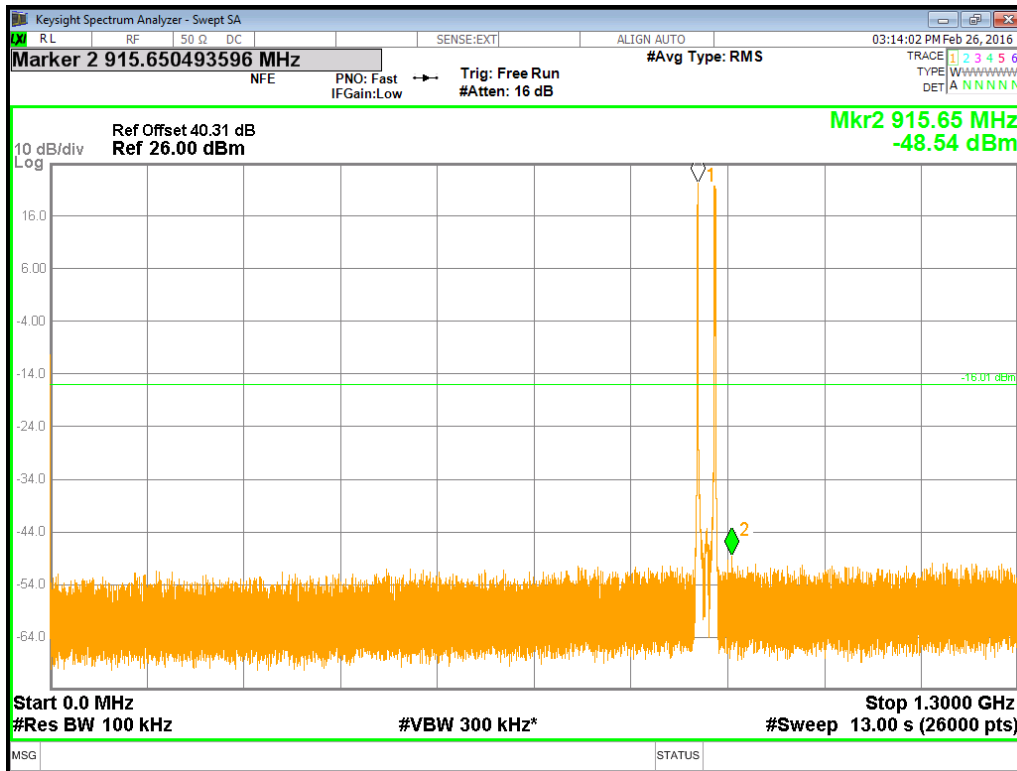


Configuration L-MIMO-MC 2 (3C)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	1.4MHz	869.7MHz + 891.9MHz + 893.3MHz
Channel Position M_{RFBW}	5.0MHz	871.5MHz + 886.5MHz + 891.5MHz

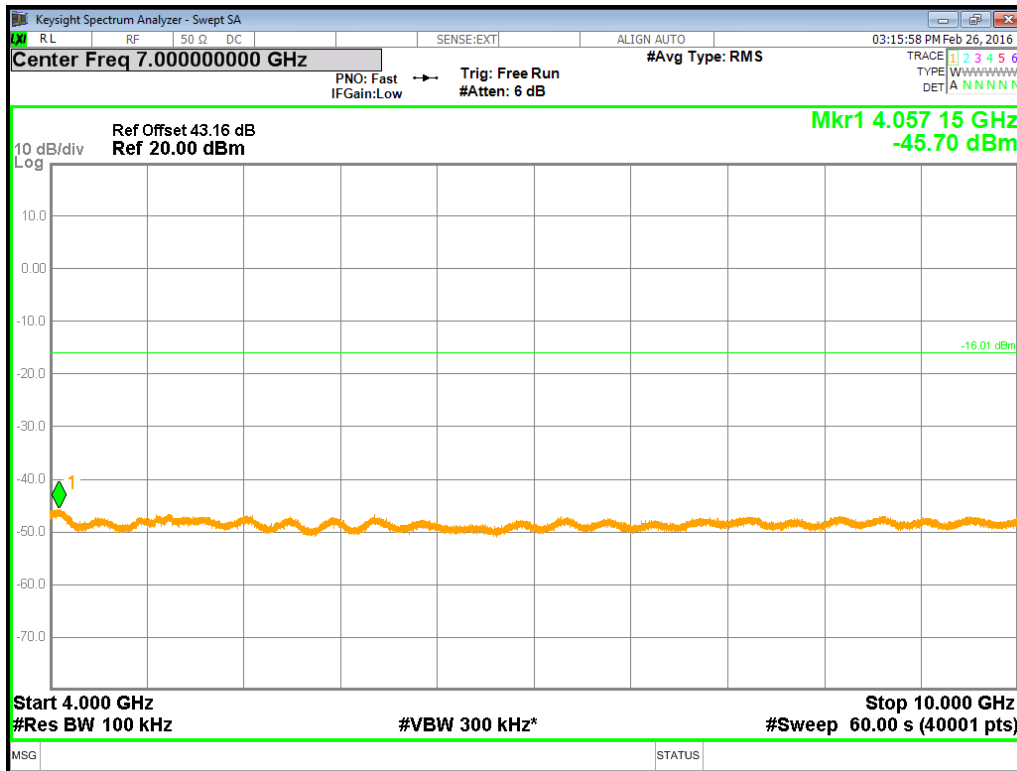
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 9kHz - 1.3GHz



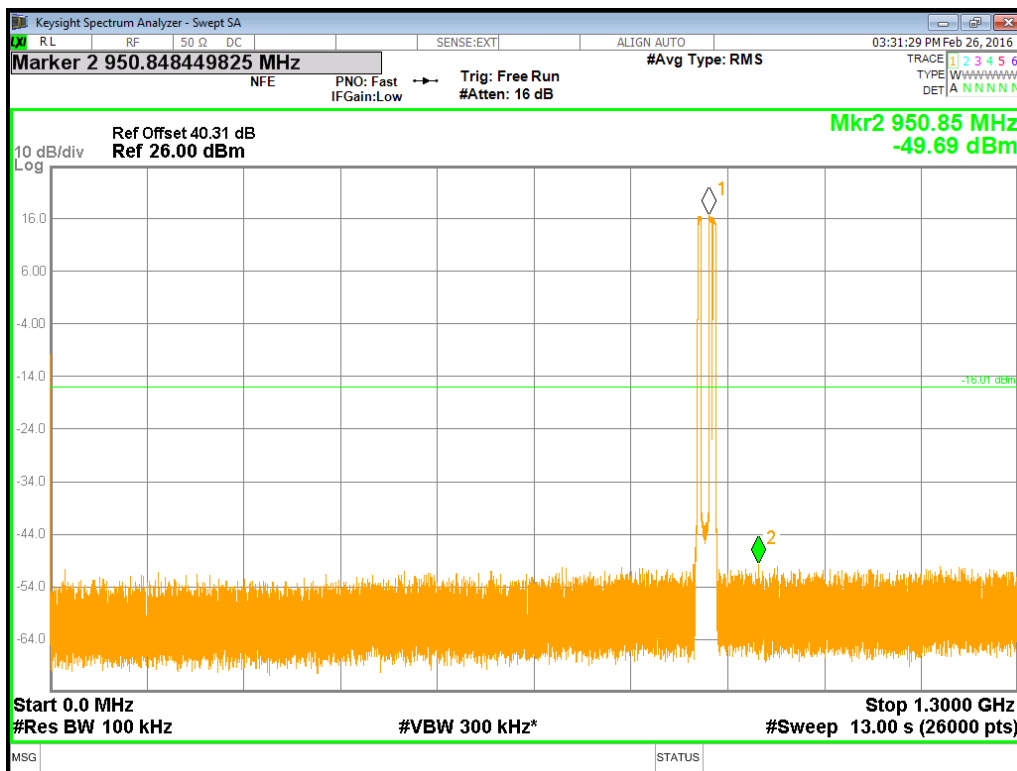
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 1.3GHz - 4GHz



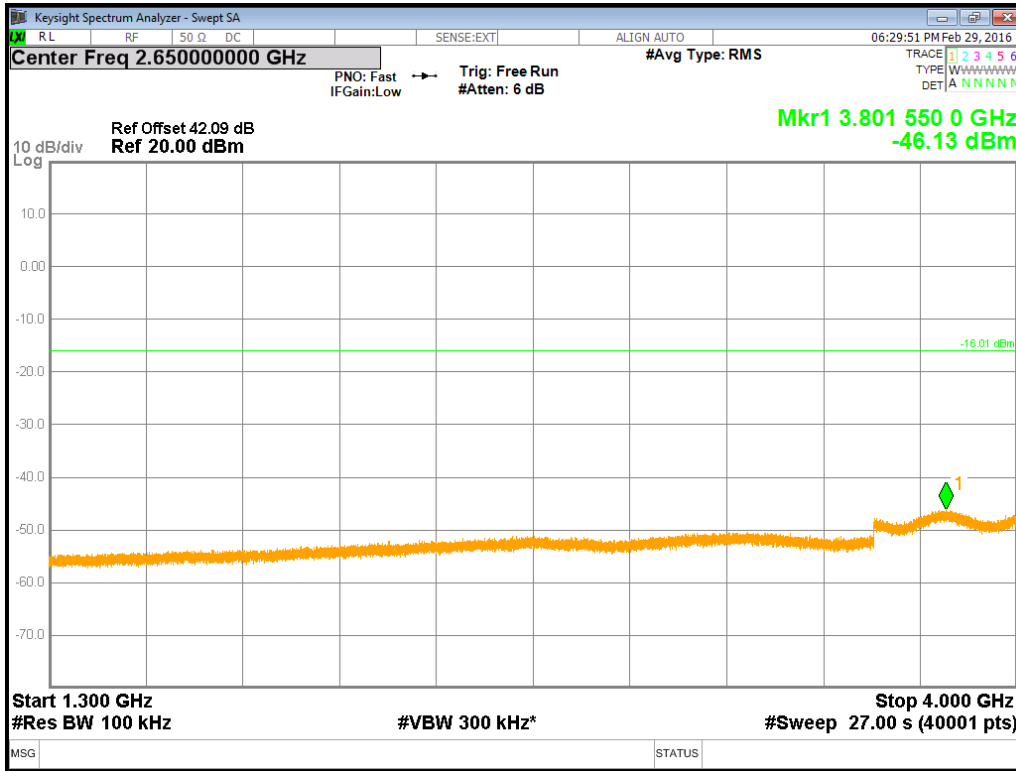
Channel Position M_{RFBW} - QPSK / Bandwidth 1.4MHz - 4GHz - 10GHz



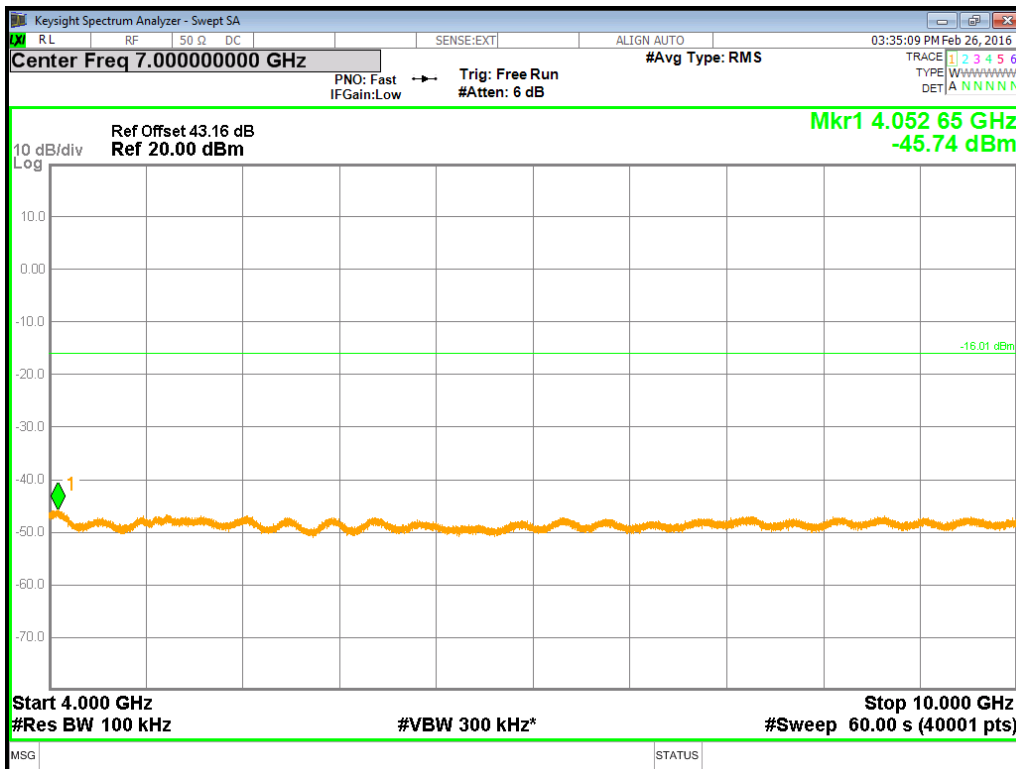
Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - QPSK / Bandwidth 5.0MHz - 4GHz - 10GHz

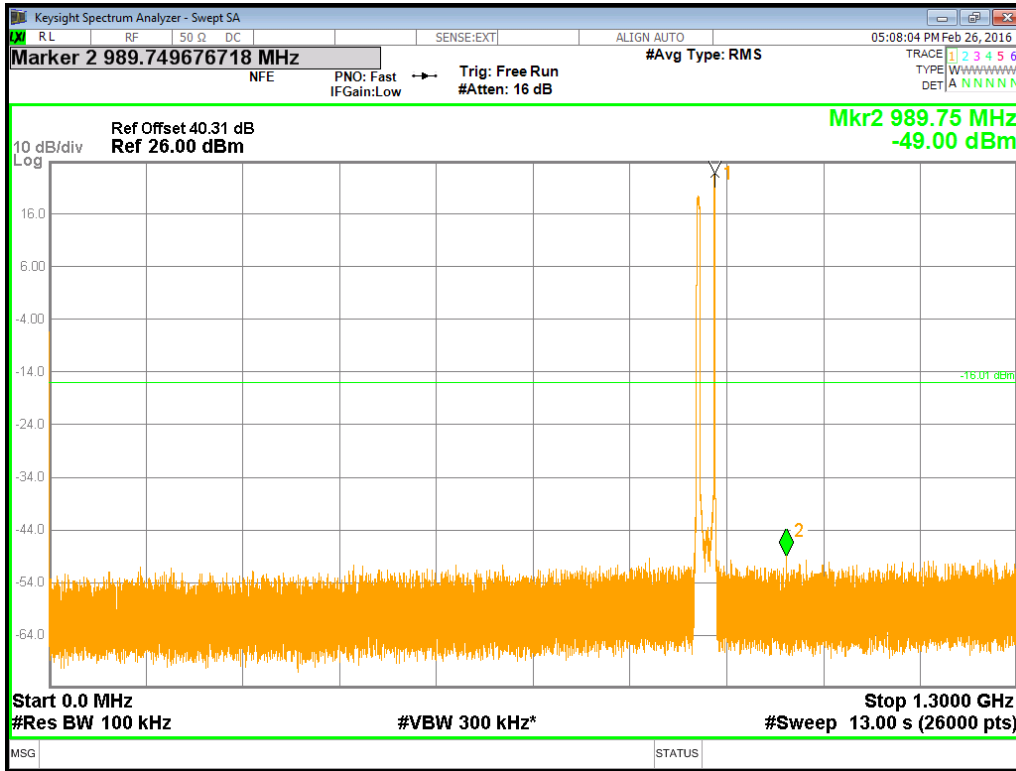


Configuration W+L-MIMO-MC 1 (1W+1L)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	W:5.0MHz L:1.4MHz	(W) 871.4MHz + (L) 893.3MHz
Channel Position M_{RFBW}	W:5.0MHz L:3.0MHz	(W) 871.4MHz + (L) 892.5MHz
Channel Position M_{RFBW}	W:5.0MHz L:5.0MHz	(W) 871.4MHz + (L) 891.5MHz
Channel Position M_{RFBW}	W:5.0MHz L:10.0MHz	(W) 871.4MHz + (L) 889.0MHz

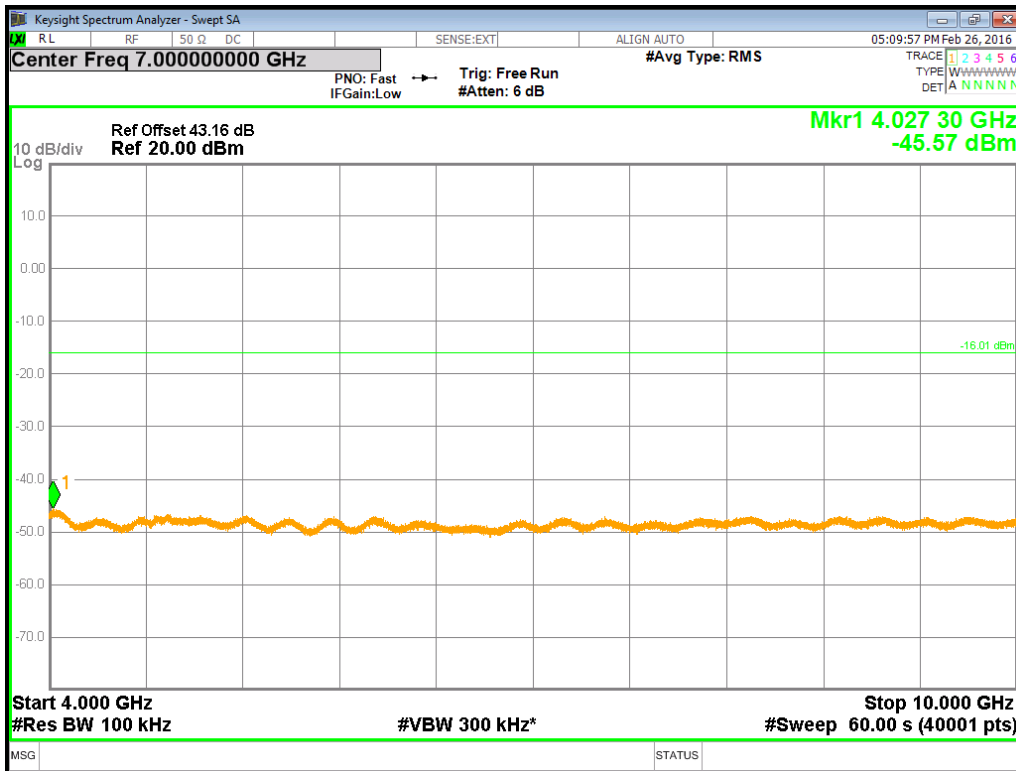
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 9kHz - 1.3GHz



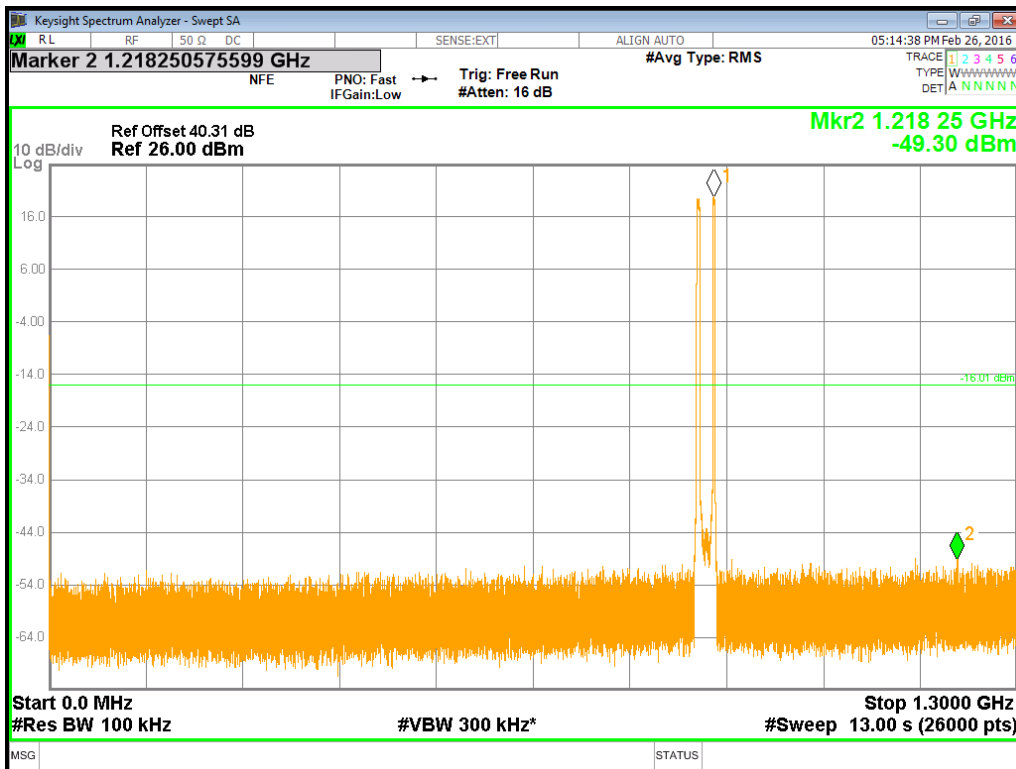
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 4GHz -10GHz



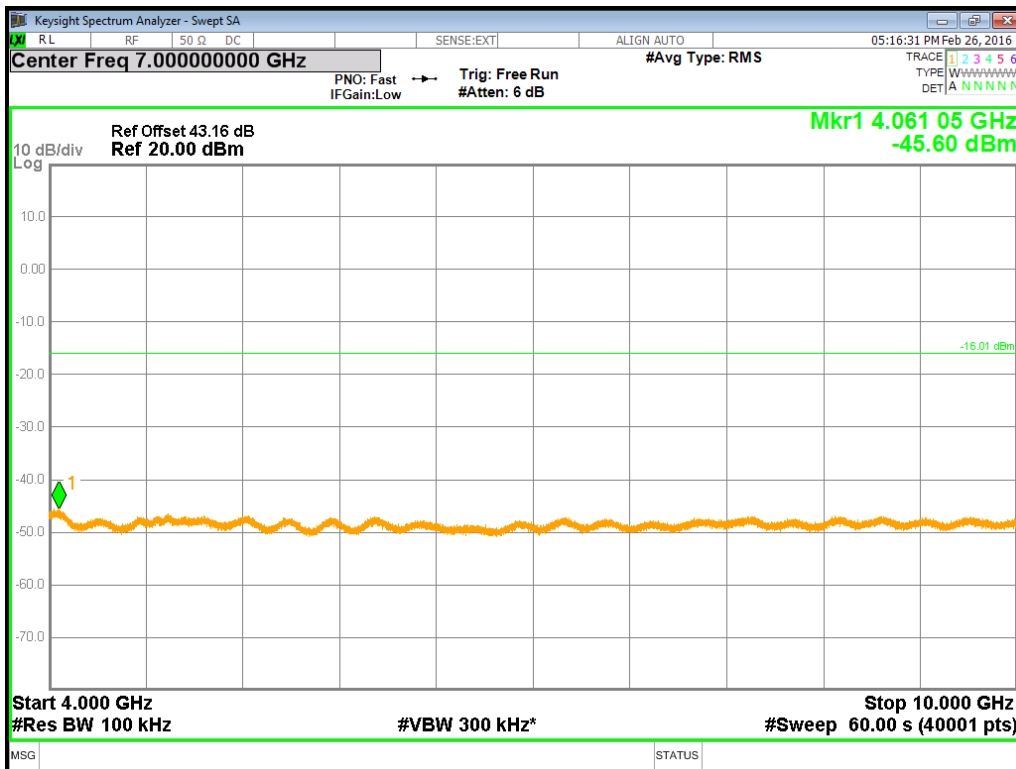
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz - 9kHz - 1.3GHz



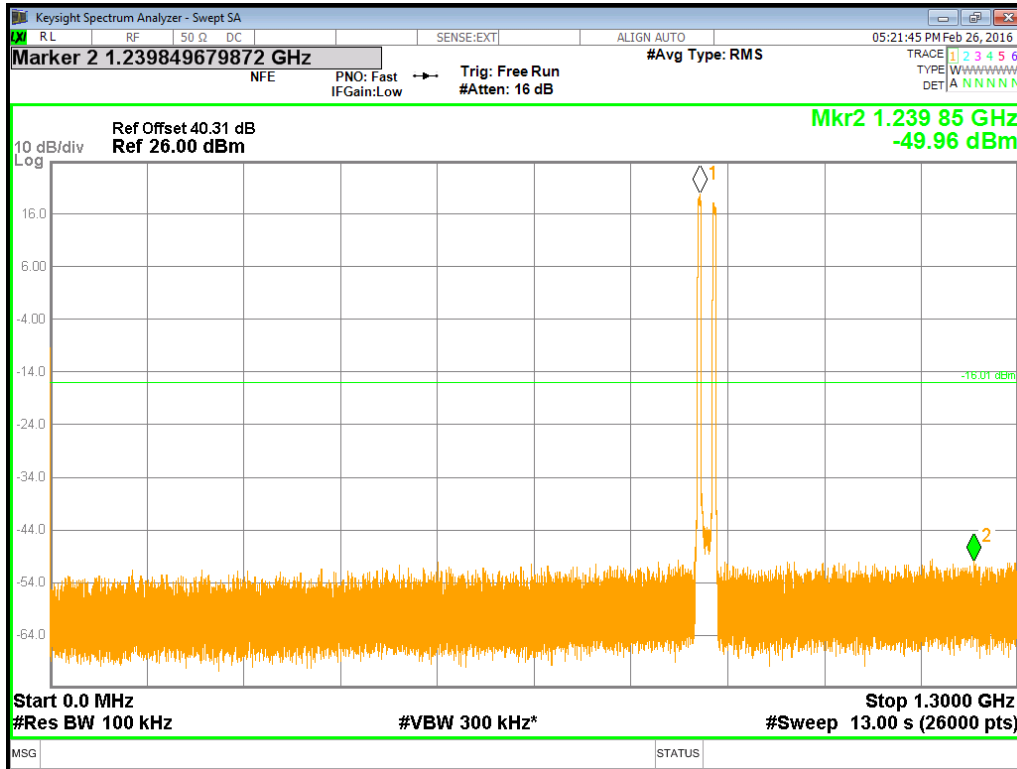
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 3.0 MHz - 4GHz - 10GHz



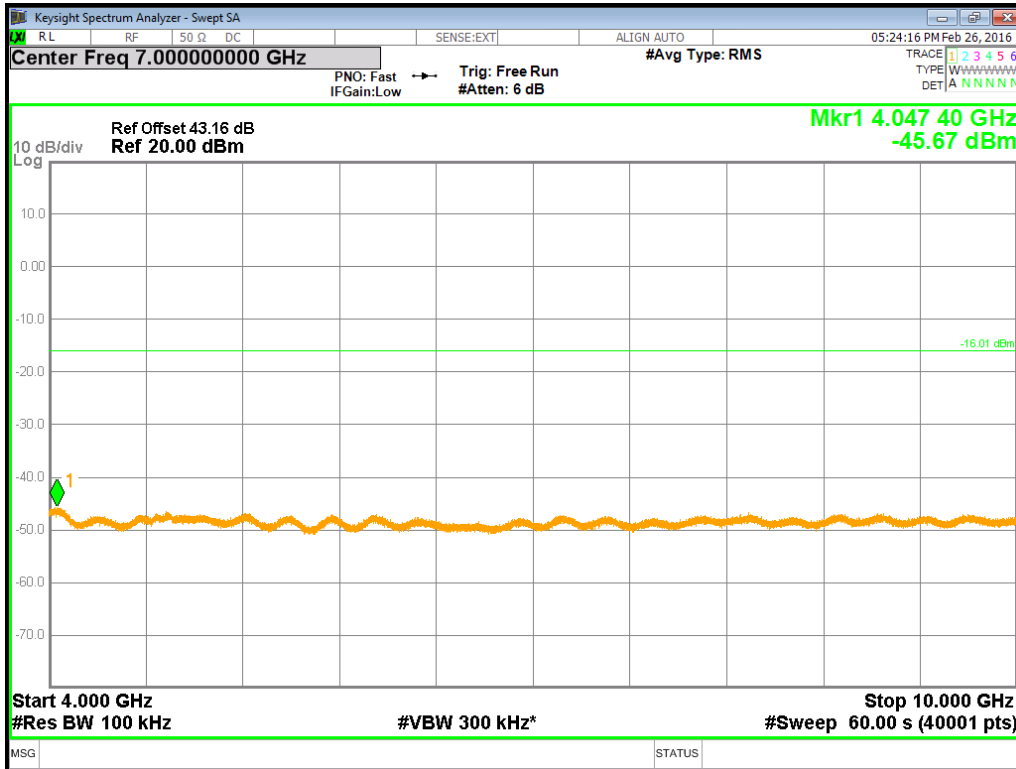
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz - 9kHz - 1.3GHz



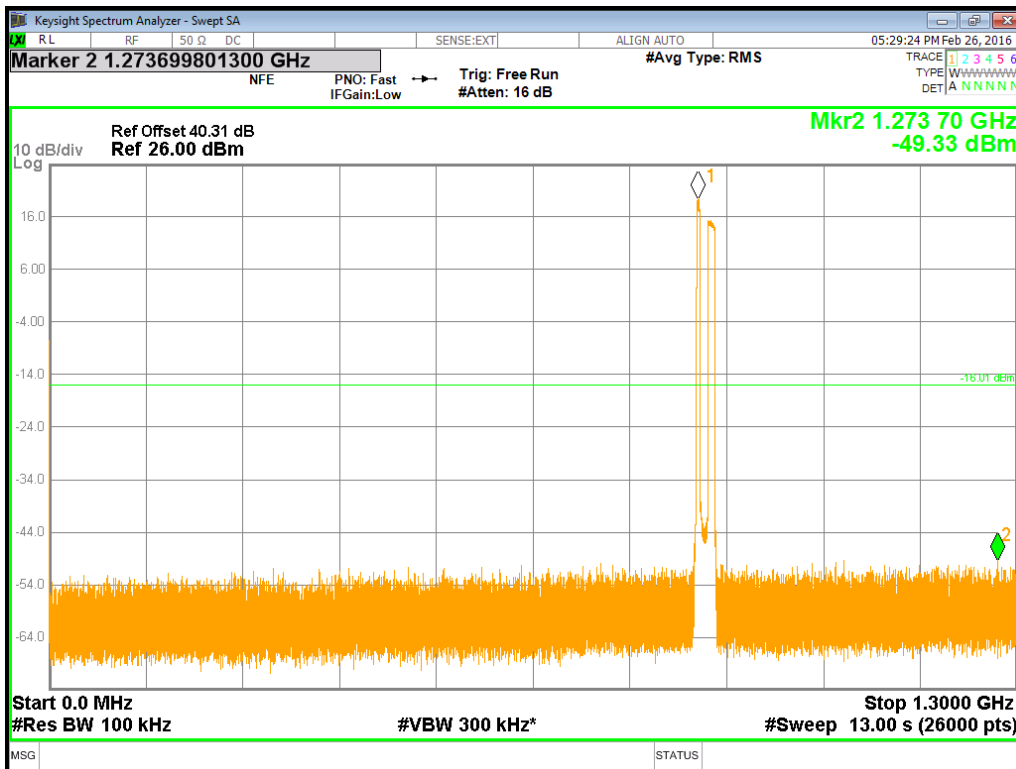
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz - 1.3GHz - 4GHz



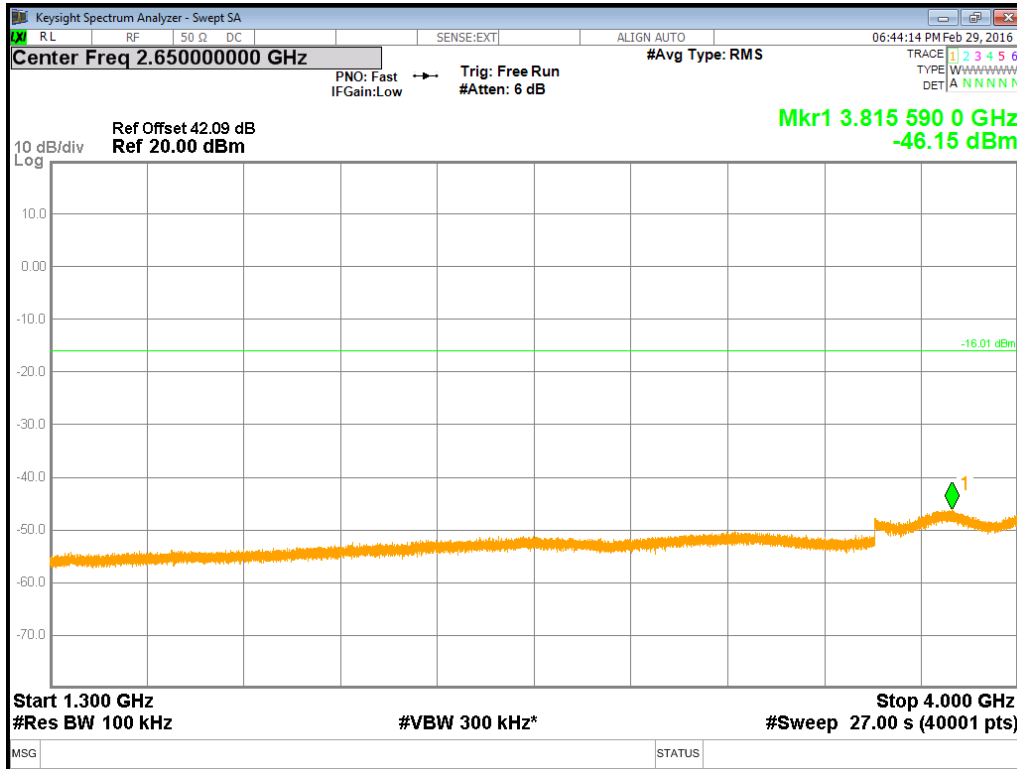
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 5.0 MHz - 4GHz - 10GHz



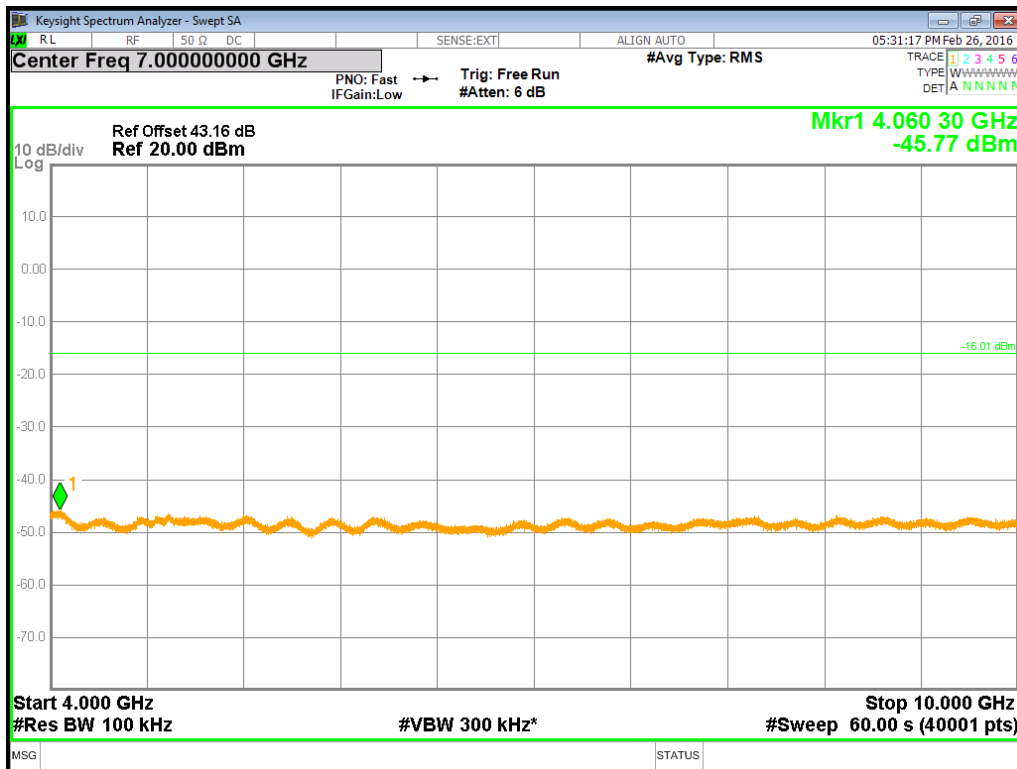
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 4GHz - 10GHz

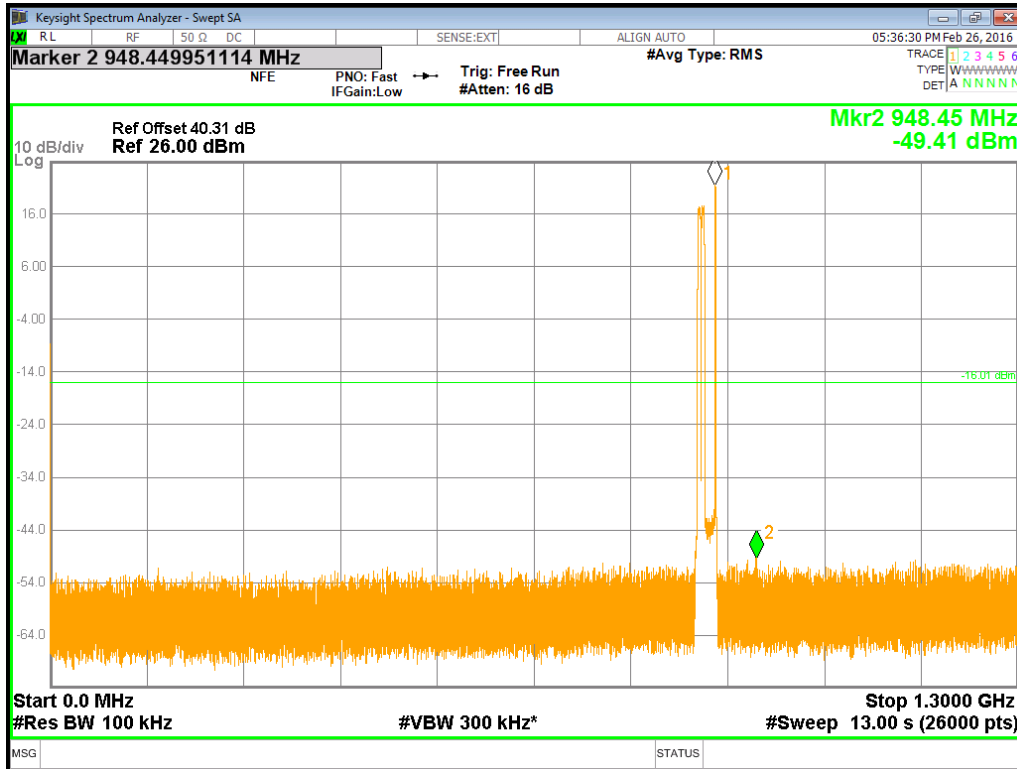


Configuration W+L-MIMO-MC 4 (2W+1L)

Maximum Output Power 37.0dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position M_{RFBW}	W:5.0MHz L:1.4MHz	(W) 871.4MHz + (W) 876.4MHz + (L) 893.3MHz
Channel Position M_{RFBW}	W:5.0MHz L:10.0MHz	(W) 871.4MHz + (W) 876.4MHz + (L) 889.0MHz

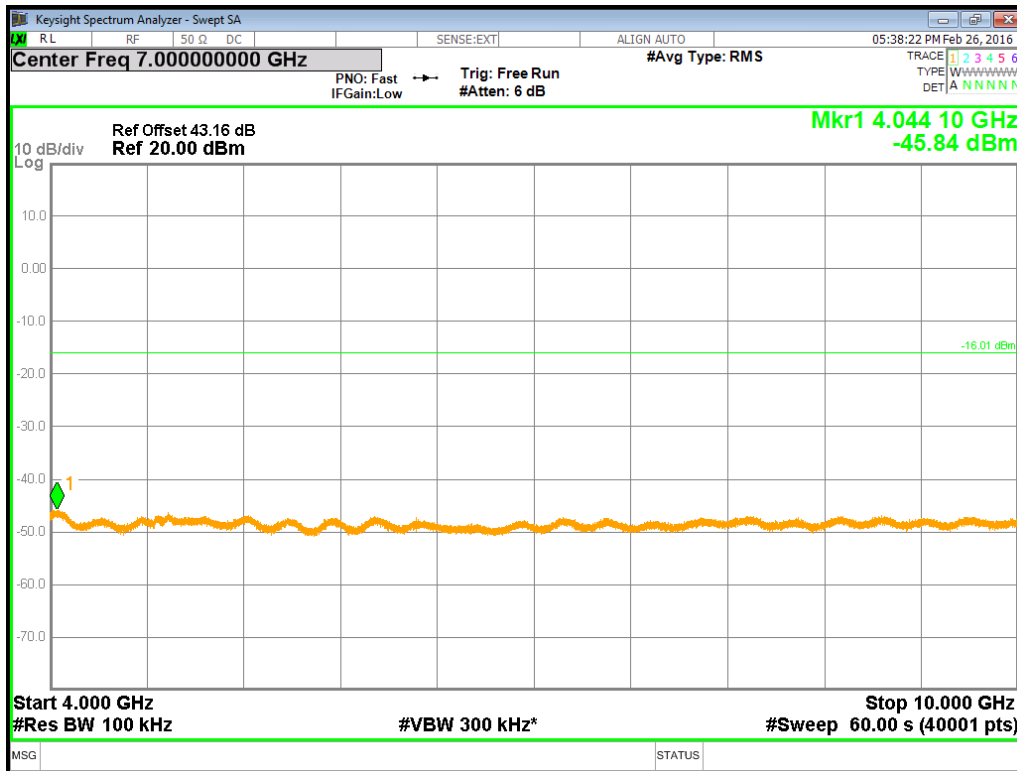
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 9kHz - 1.3GHz



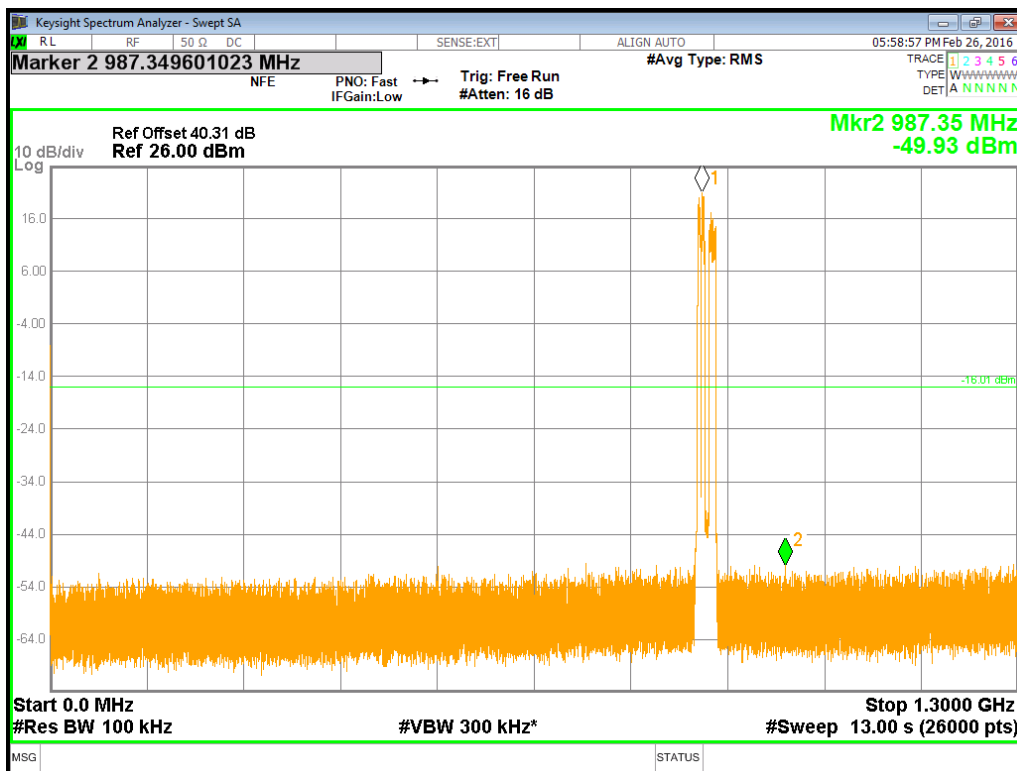
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 1.3GHz - 4GHz



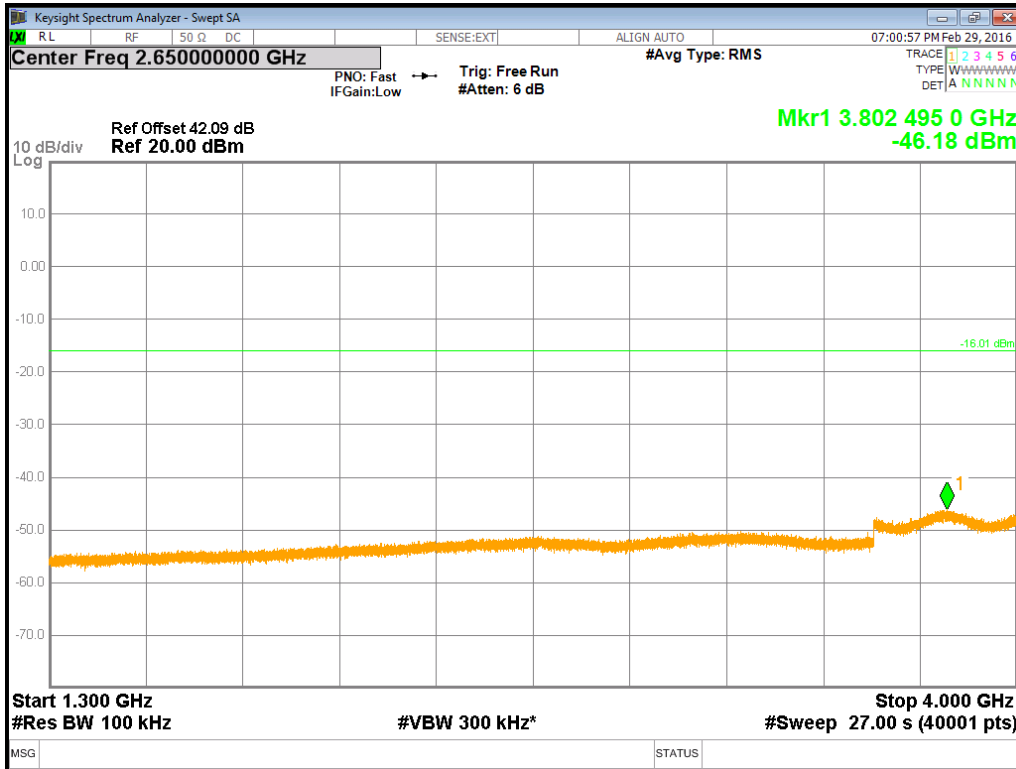
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 1.4 MHz - 4GHz - 10GHz



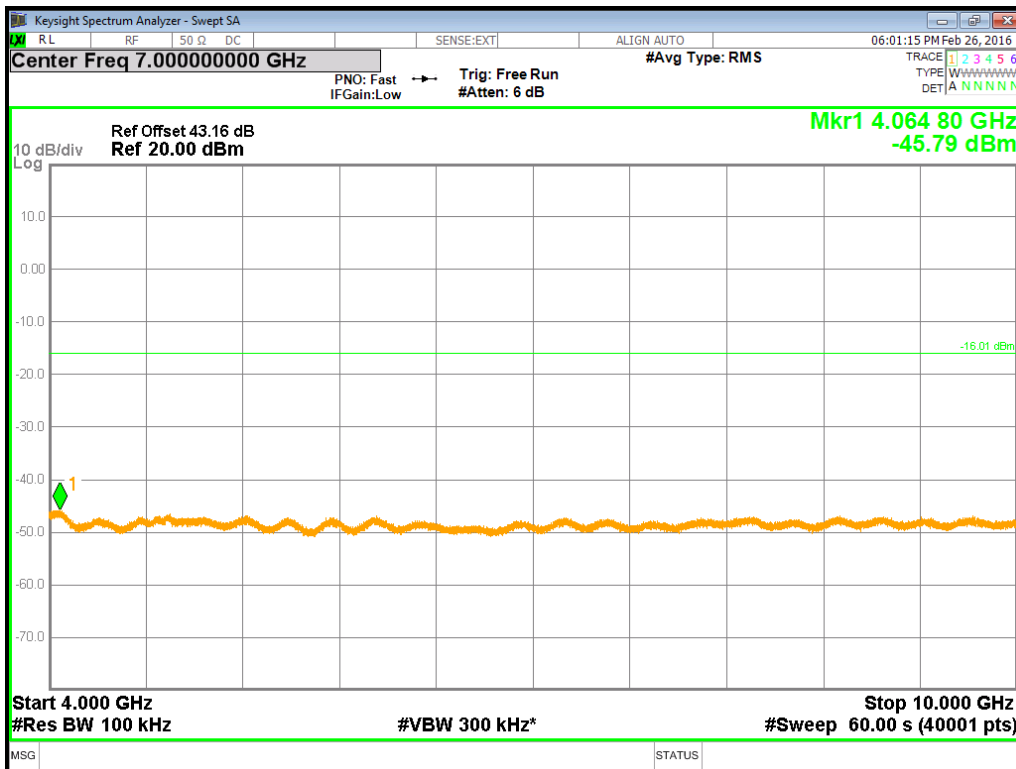
Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 9kHz - 1.3GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 1.3GHz - 4GHz



Channel Position M_{RFBW} - WCDMA 16QAM / LTE QPSK: Bandwidth 10.0 MHz - 4GHz - 10GHz



Limit	-13dBm for outside a licensee's frequency band(s) of operation
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Remarks

All the unwanted emissions of EUT does not exceed the limitations at the frequency range of 9kHz to 10GHz.

2.7 FREQUENCY STABILITY

2.7.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1055
FCC CFR 47 Part 22, Clause 22.355
Industry Canada RSS-132, Clause 5.3

2.7.2 Equipment Under Test

Radio 2203 B5, KRC 161 508/1, S/N: D822845958

2.7.3 Date of Test and Modification State

1 and 2 March 2016 - Modification State 0

2.7.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.5 Environmental Conditions

Ambient Temperature	21.2 - 22.8°C
Relative Humidity	28.6 - 30.0%

2.7.6 Test Method

The test was applied in accordance with test method requirements of FCC CFR 47 Part 22 and RSS-132.

Frequency Error – Temperature Variation

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48 VDC Power Supply. At each temperature step, the Base Station was configured to transmit an [RAT]* at maximum power on the middle channel of the operating band. After achieving thermal balance, the averages of 200 transmission bursts were measured and the result recorded.

Frequency Error – Voltage Variation

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48VDC. At +20°C, the Base Station was configured to transmit an [RAT]* at maximum power on the bottom, middle and top channel of the operating band. The average of 200 transmission bursts was measured and the result recorded.

[RAT]*: WCDMA (5.0 MHz bandwidth) – Single Carrier with 16QAM modulation.

LTE (3.0 MHz bandwidth) – Single Carrier with QPSK modulation

2.7.7 Test Results

Frequency Error – Temperature Variation

Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port, Channel Bandwidth 5.0MHz

Supply Voltage DC (V)	Temperature	Frequency Stability (Hz)		
		Channel Position B (871.4MHz)	Channel Position M (881.4MHz)	Channel Position T (891.6MHz)
-48.0	-30°C	1.89	2.32	2.42
	-20°C	2.36	2.75	3.36
	-10°C	-2.74	2.38	3.49
	0°C	2.61	2.89	3.25
	+10°C	-2.28	-1.91	2.78
	+20°C	1.67	1.54	2.82
	+30°C	1.57	-1.58	2.35
	+40°C	1.78	1.54	2.31
	+50°C	4.58	-7.45	-3.01

Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port, Channel Bandwidth 3.0MHz

Supply Voltage DC (V)	Temperature	Frequency Stability (Hz)		
		Channel Position B (870.5MHz)	Channel Position M (881.5MHz)	Channel Position T (892.5MHz)
-48.0	-30°C	4.31	-1.93	3.87
	-20°C	-3.88	-5.42	-4.21
	-10°C	-4.57	5.86	4.08
	0°C	-4.83	4.60	4.87
	+10°C	-4.88	4.28	5.30
	+20°C	1.36	-1.75	1.62
	+30°C	-1.39	1.54	1.47
	+40°C	-1.41	1.42	-1.34
	+50°C	4.22	-3.72	-3.20

Frequency Error – Voltage Variation

Configuration W-MIMO-SC

Maximum Output Power 37.0dBm per port, Channel Bandwidth 5.0MHz

Supply Voltage DC (V)	Temperature	Frequency Stability (Hz)		
		Channel Position B (871.4MHz)	Channel Position M (881.4MHz)	Channel Position T (891.6MHz)
-40.8	+20°C	-2.01	1.47	2.35
-48.0		1.67	1.54	2.82
-55.2		1.83	-1.46	2.36

Configuration L-MIMO-SC

Maximum Output Power 37.0dBm per port, Channel Bandwidth 3.0MHz

Supply Voltage DC (V)	Temperature	Frequency Stability (Hz)		
		Channel Position B (870.5MHz)	Channel Position M (881.5MHz)	Channel Position T (892.5MHz)
-40.8	+20°C	-2.10	-1.44	-1.70
-48.0		1.36	-1.75	1.62
-55.2		-1.48	1.35	-1.72

Limit	FCC/IC: $\leq 1.5\text{ppm}$
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Remarks

The frequency stability of the EUT is sufficient to keep it within the authorised frequency ranges at any temperature and voltage interval across the measured range.



Product Service

SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Maximum Output Power and Peak to Average Ratio - Conducted					
Network Analyzer	Agilent	5071C	MY46105235	12	11-Aug-2016
Power Meter	Rohde & Schwarz	NRP2	104221	12	20-Mar-2016
Power Sensor	Rohde & Schwarz	NRP-Z51	121216	12	17-Mar-2016
Spectrum Analyser	KEYSIGHT	N9030A	MY54490502	12	27-Apr-2016
40dB Attenuator	Aeroflex / Weinschel	66-40-33	CD4016	-	O/P MON
40dB Attenuator	Aeroflex / Weinschel	48-40-43-LIM	BR5020	-	O/P MON
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016
Maximum Output Power- Radiated					
EMI Receiver	Rohde & Schwarz	ESI40	100015	12	20-Aug-2016
Ultra Log Test Antenna	Rohde & Schwarz	HL562	100167	12	20-Aug-2016
Biconical Antenna	Rohde & Schwarz	VUBA9117	9117-186	12	04-Aug-2016
Semi Anechoic Chamber	Frankonia	23.18m×16.88m×9.60m	-	12	20-Aug-2016
Antenna Master	Frankonia	MA 260	-	12	20-Aug-2016
Signal Generator	Rohde & Schwarz	SMR 40	100152	12	19-Aug-2016
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016
Occupied Bandwidth					
Network Analyzer	Agilent	5071C	MY46105235	12	11-Aug-2016
Spectrum Analyser	KEYSIGHT	N9030A	MY54490502	12	27-Apr-2016
40dB Attenuator	Aeroflex / Weinschel	66-40-33	CD4016	-	O/P MON
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016
Band Edge					
Network Analyzer	Agilent	5071C	MY46105235	12	11-Aug-2016
Spectrum Analyser	KEYSIGHT	N9030A	MY54490502	12	27-Apr-2016
40dB Attenuator	Aeroflex / Weinschel	66-40-33	CD4016	-	O/P MON
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Conducted Spurious Emission					
Network Analyzer	Agilent	5071C	MY46105235	12	11-Aug-2016
Spectrum Analyser	KEYSIGHT	N9030A	MY54490502	12	27-Apr-2016
40dB Attenuator	Aeroflex / Weinschel	66-40-33	CD4016	-	O/P MON
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016
Radiated Spurious Emissions					
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
EMI Receiver	Rohde & Schwarz	ESI40	100015	12	20-Aug-2016
Ultra Log Test Antenna	Rohde & Schwarz	HL562	100167	12	20-Aug-2016
Double-Ridge Waveguide Horn Antenna	Rohde & Schwarz	HF 906	100030	12	20-Aug-2016
Semi Anechoic Chamber	Frankonia	23.18m×16.88m×9.60m	-	12	20-Aug-2016
Antenna Master	Frankonia	MA 260	-	12	20-Aug-2016
Relay Switch Unit	Rohde & Schwarz	331.1601.31	338965002	-	TU
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016
Frequency Stability					
Network Analyzer	Agilent	5071C	MY46105235	12	11-Aug-2016
Spectrum Analyser	KEYSIGHT	N9030A	MY54490502	12	27-Apr-2016
40dB Attenuator	Aeroflex / Weinschel	66-40-33	CD4016	-	O/P MON
Load	Shanghai Huaxiang	TF100	09121609	-	O/P MON
Load	Shanghai Huaxiang	TF150	11081905	-	O/P MON
Climate Chamber	Weiss-Voetsch Co.,Ltd	C7-1000 pro	54260008430010	-	O/P MON
DC Power Supply	Duahua	DH1716-5D	BAMS-1001129716	-	O/P MON
Digital Multi-meter	FLUKE	179	91820401	12	15-Dec-2016
Thermo-hygrometer	AZ Instruments	8705	9151665	12	07-Dec-2016

N/A – Not Applicable

OP MON – Output Monitored with Calibrated Equipment

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Discipline	Frequency / Parameter	MU
Conducted Maximum Peak Output Power	30MHz to 10GHz Amplitude	0.5dB*
Conducted Emissions	30MHz to 40GHz Amplitude	3.0dB*
Frequency stability	30MHz to 2GHz	$<\pm 1 \times 10^{-7}$
Radiated Emissions, Bilog Antenna, AOATS	30MHz to 1GHz Amplitude	5.1dB*
Radiated Emissions, Horn Antenna, AOATS	1GHz to 40GHz Amplitude	6.3dB*
Worst case error for both Time and Frequency measurement 12 parts in 10^6		

* In accordance with CISPR 16-4



Product Service

SECTION 4

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



This report relates only to the actual item/items tested.

Our UKAS Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our UKAS Accreditation.

Results of tests not covered by our UKAS Accreditation Schedule are marked NUA (Not UKAS Accredited).

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