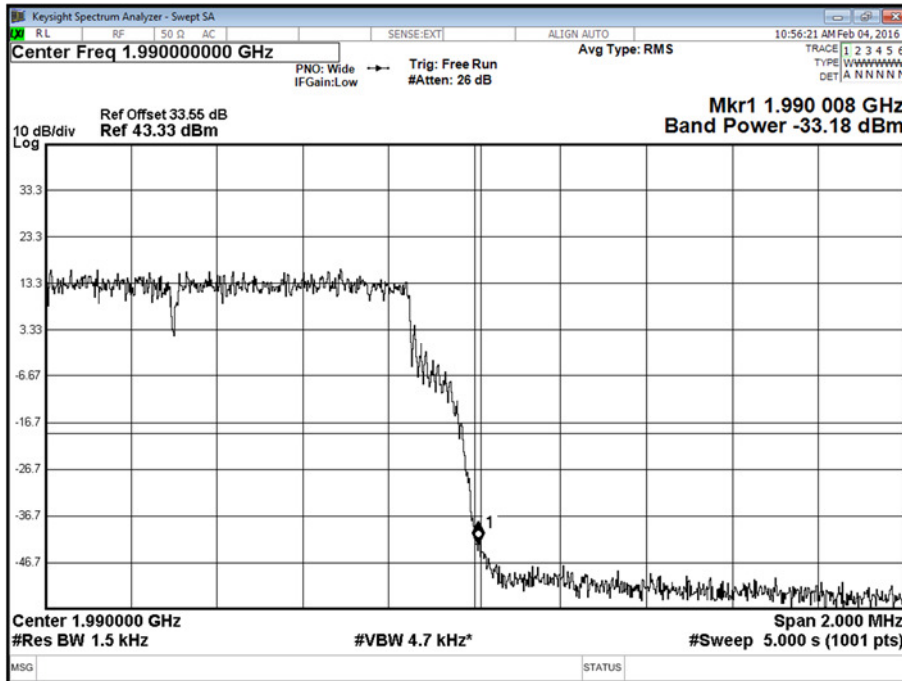
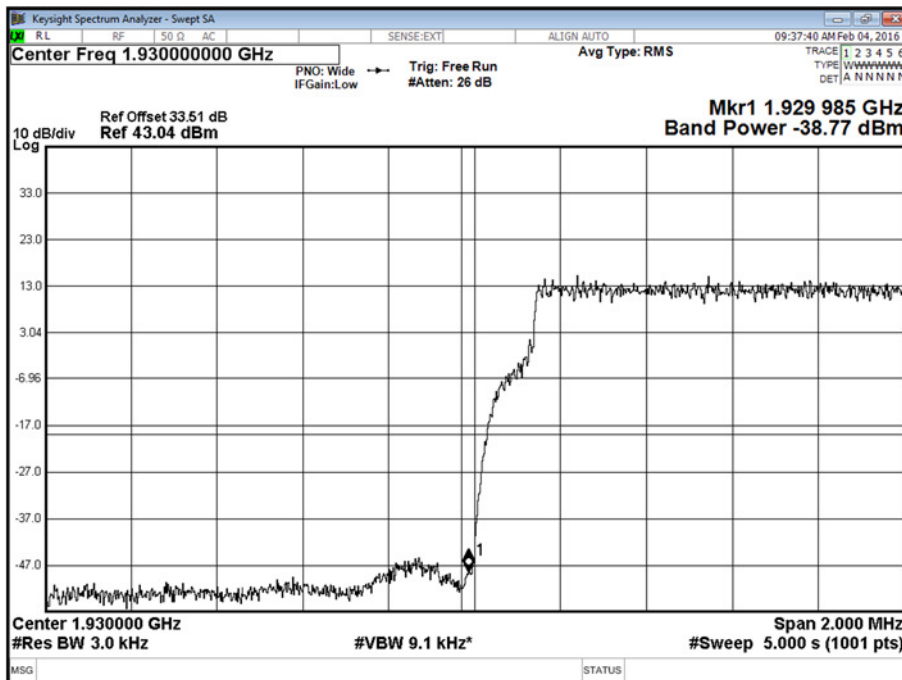


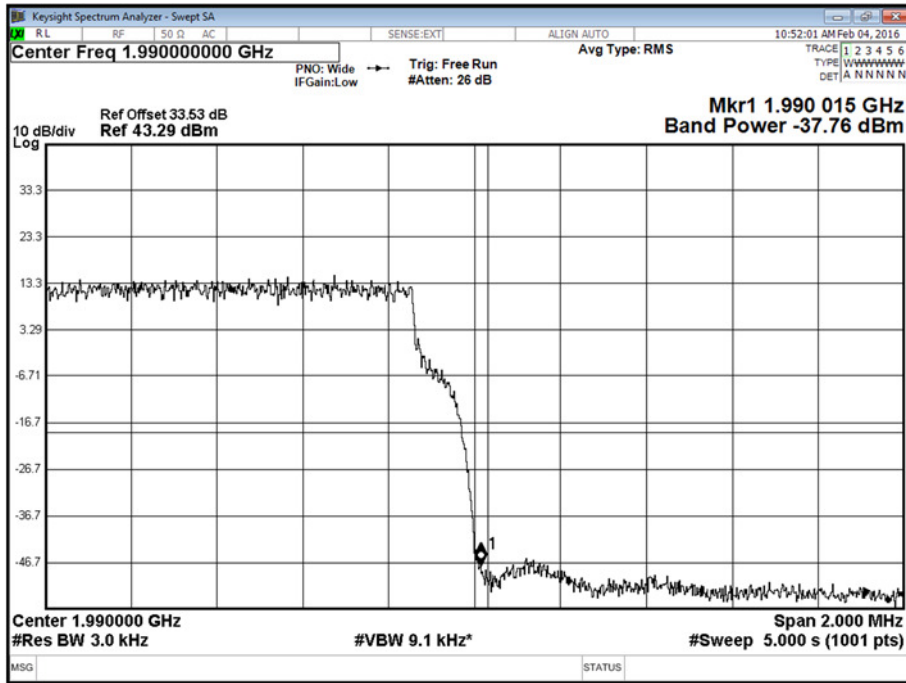
### Channel Position T - Bandwidth 1.4 MHz - Antenna B



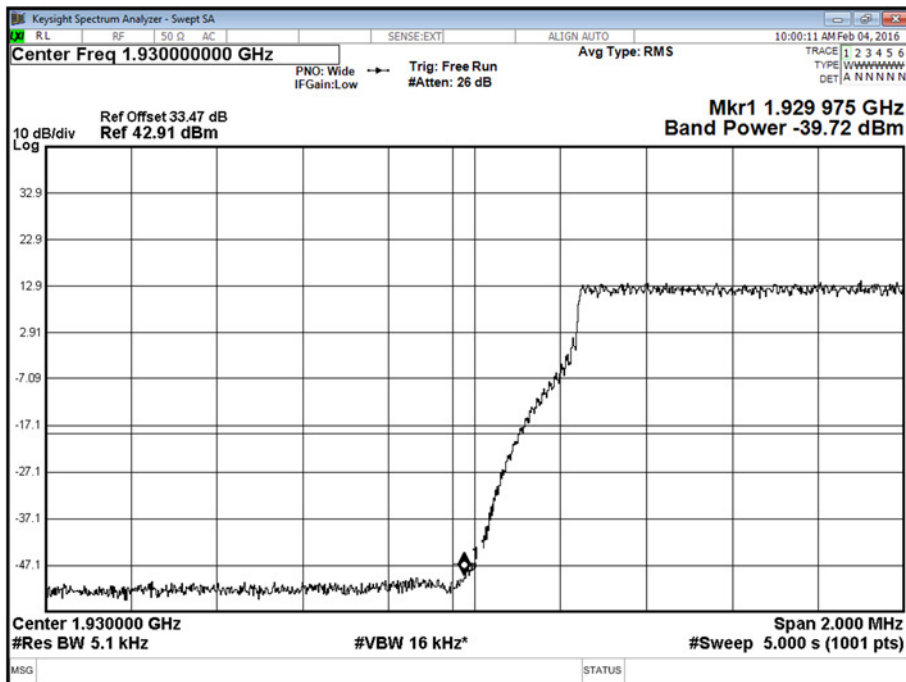
### Channel Position B - Bandwidth 3.0 MHz - Antenna B



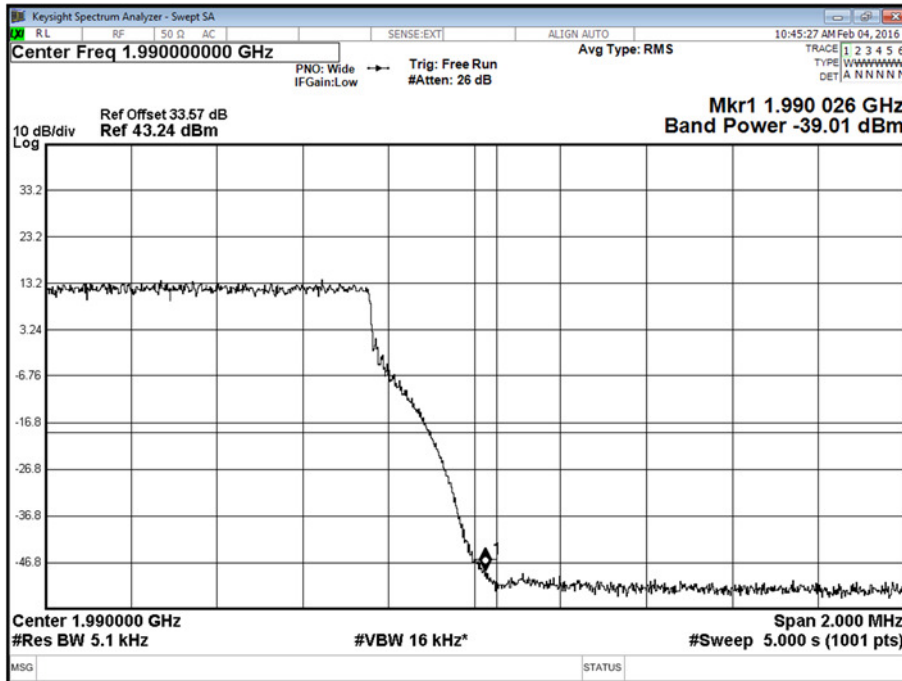
Channel Position T - Bandwidth 3.0 MHz - Antenna B



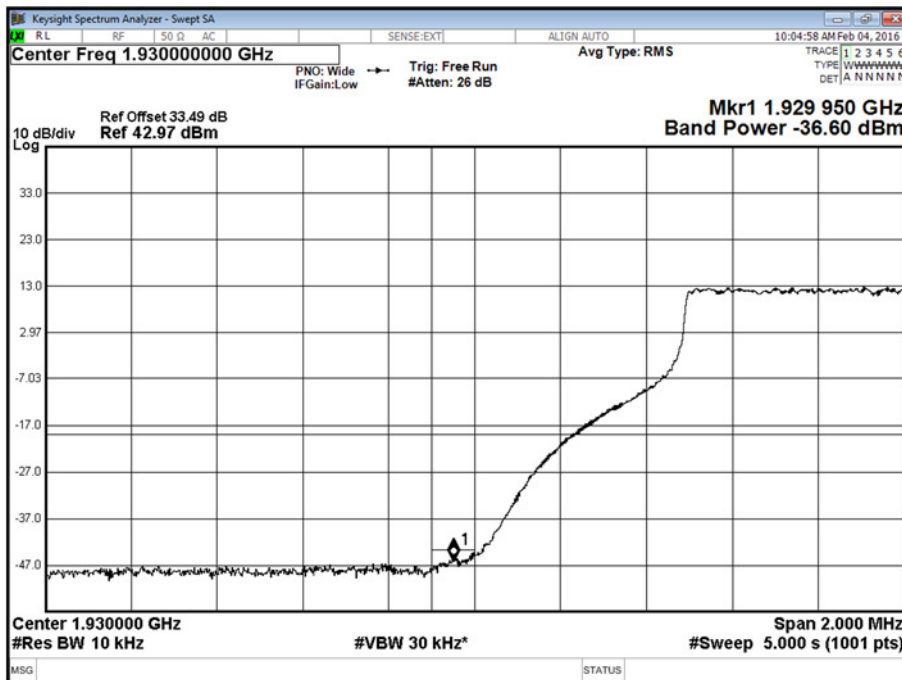
Channel Position B - Bandwidth 5.0 MHz - Antenna B



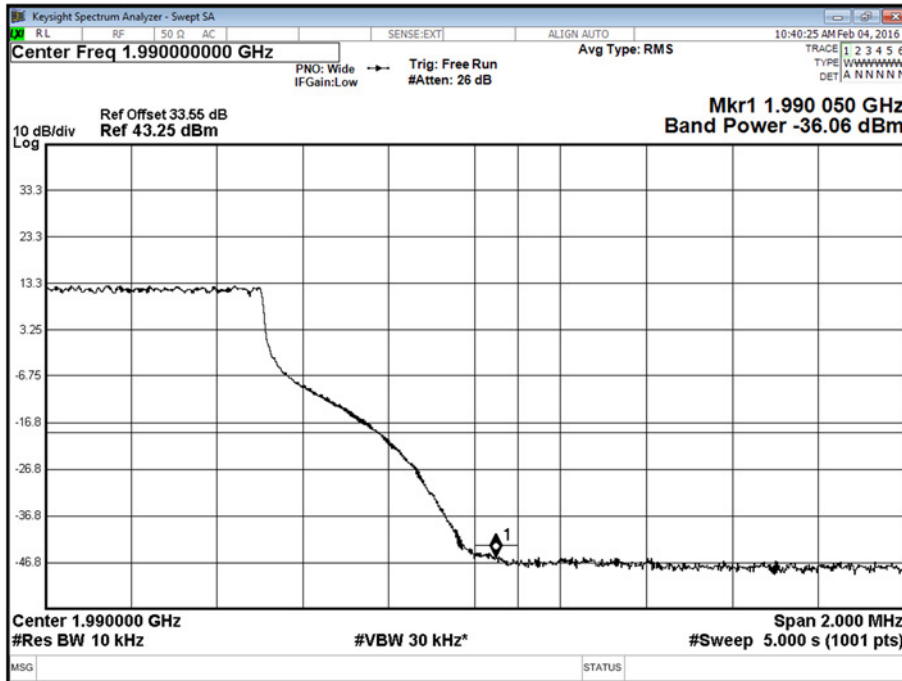
Channel Position T - Bandwidth 5.0 MHz - Antenna B



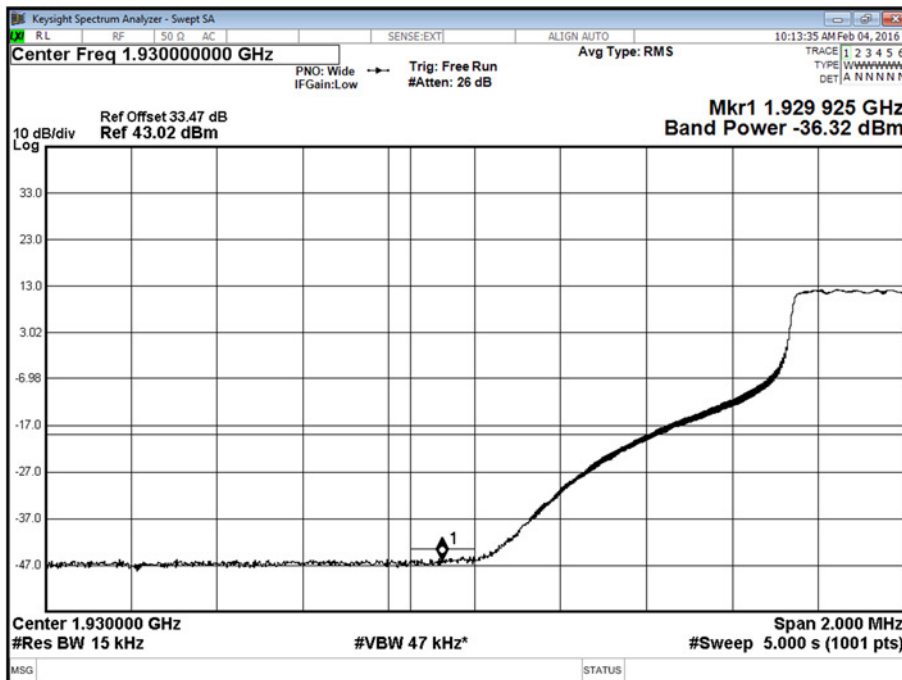
Channel Position B - Bandwidth 10.0 MHz - Antenna B



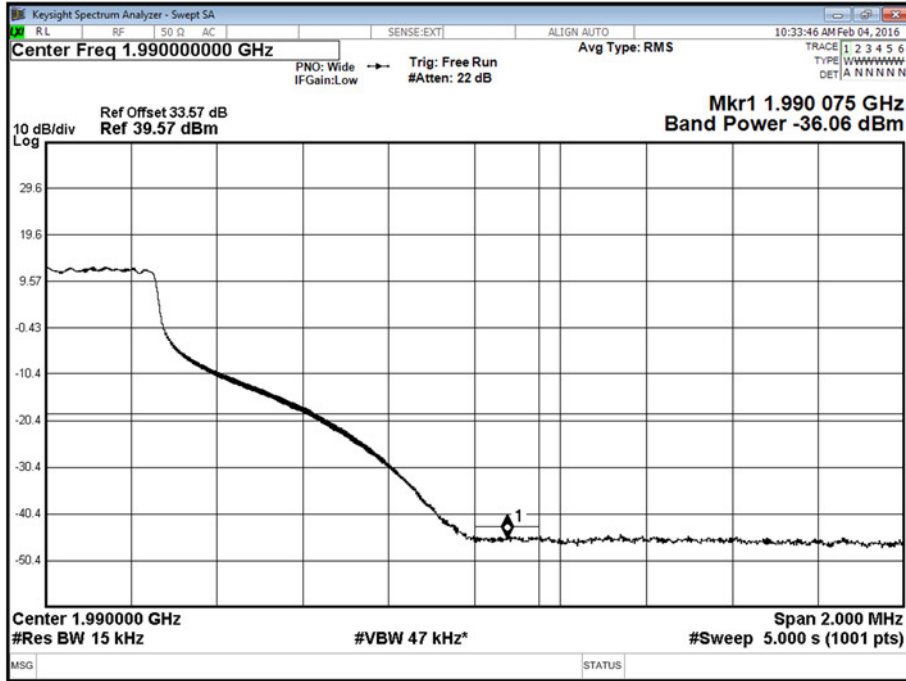
Channel Position T - Bandwidth 10.0 MHz - Antenna B



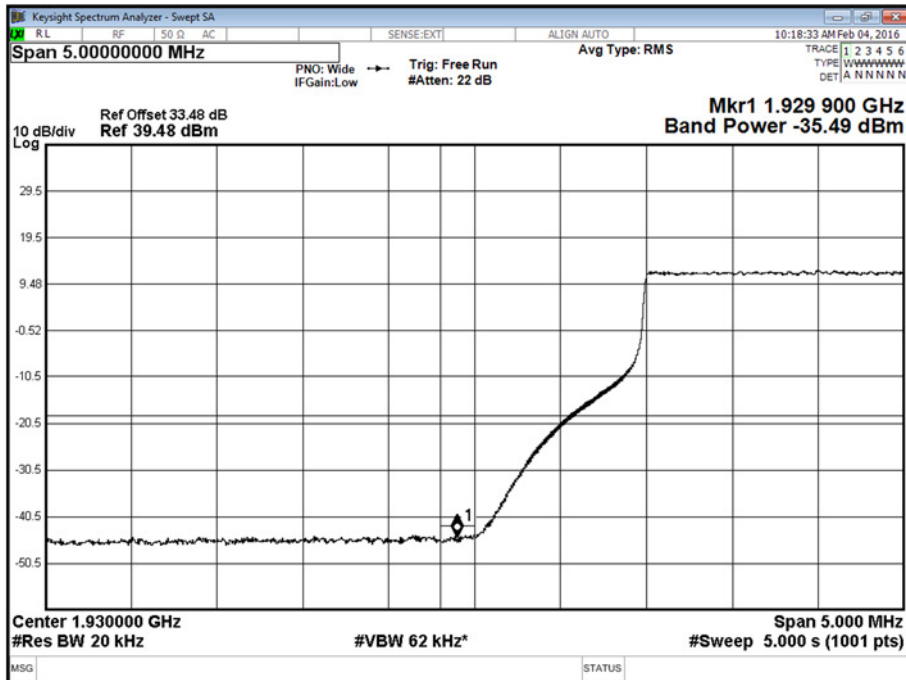
Channel Position B - Bandwidth 15.0 MHz - Antenna B



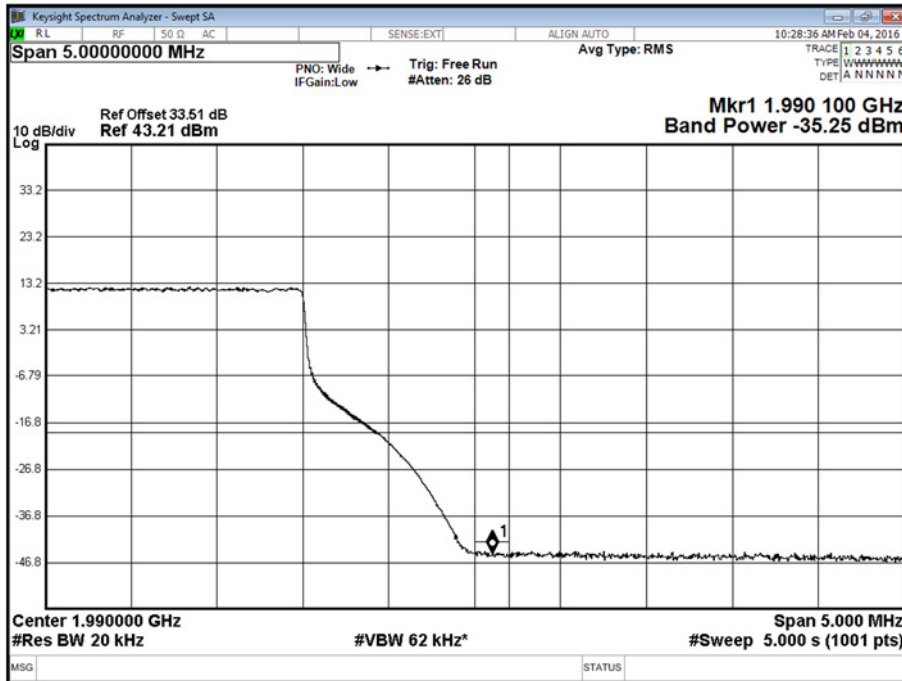
Channel Position T - Bandwidth 15.0 MHz - Antenna B



Channel Position B - Bandwidth 20.0 MHz - Antenna B



Channel Position T - Bandwidth 20.0 MHz - Antenna B

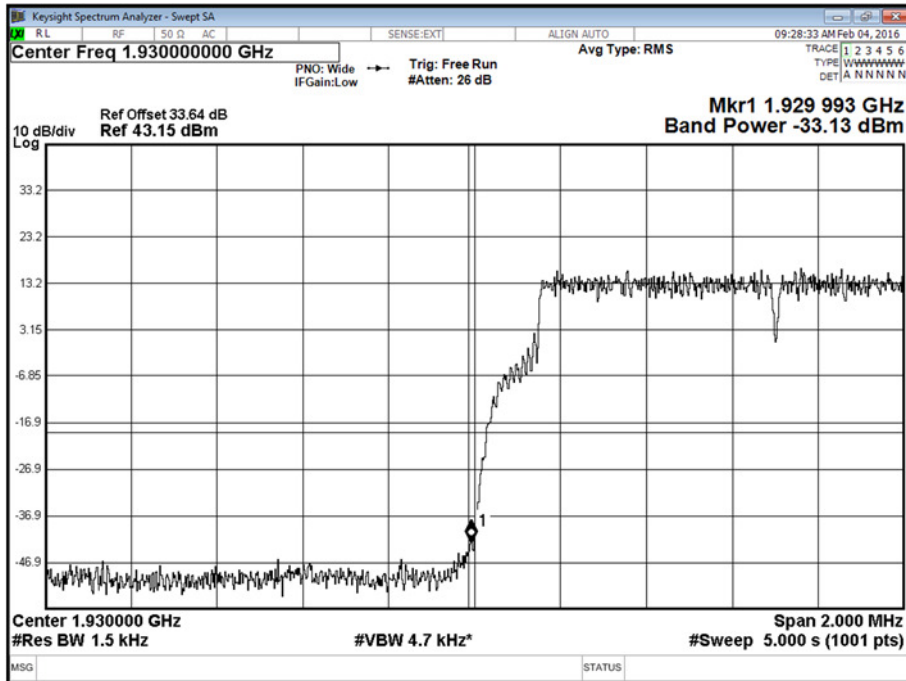


Configuration 4 Antenna C

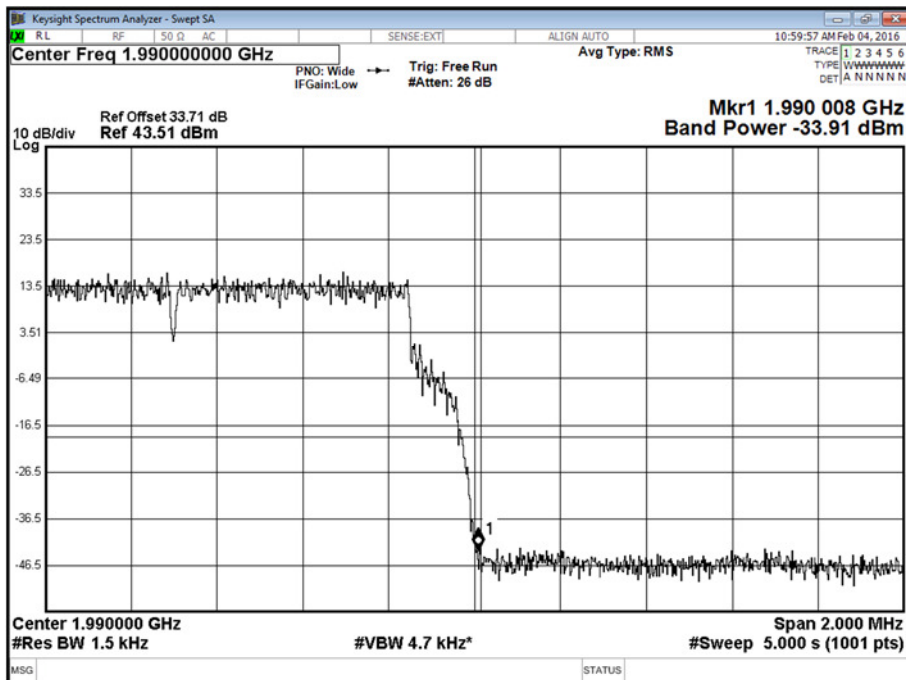
Maximum Output Power 44.77 dBm

Carrier Bandwidth	Modulation	Band Edge (MHz)	
		Channel Position B	Channel Position T
1.4 MHz	QPSK	1930.7 + 1932.1	1987.9 + 1989.3
3.0 MHz	QPSK	1931.5 + 1934.5	1985.5 + 1988.5
5.0 MHz	QPSK	1932.5 + 1937.5	1982.5 + 1987.5
10.0 MHz	QPSK	1935 + 1945	1975 + 1985
15.0 MHz	QPSK	1937.5 + 1952.5	1967.5 + 1982.5
20.0 MHz	QPSK	1940 + 1960	1960 + 1980

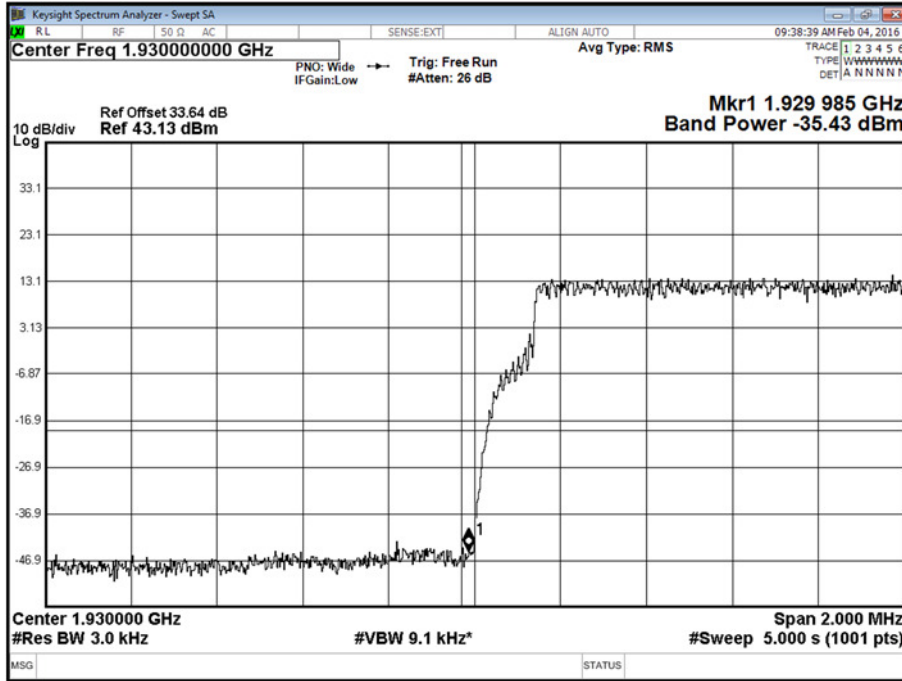
Channel Position B - Bandwidth 1.4 MHz - Antenna C



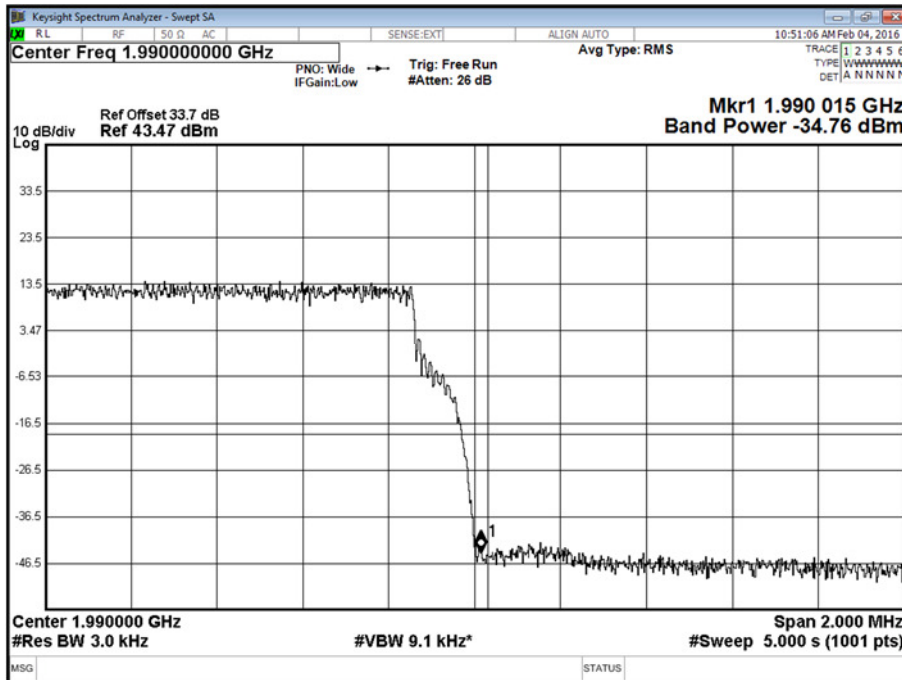
Channel Position T - Bandwidth 1.4 MHz - Antenna C



Channel Position B - Bandwidth 3.0 MHz - Antenna C

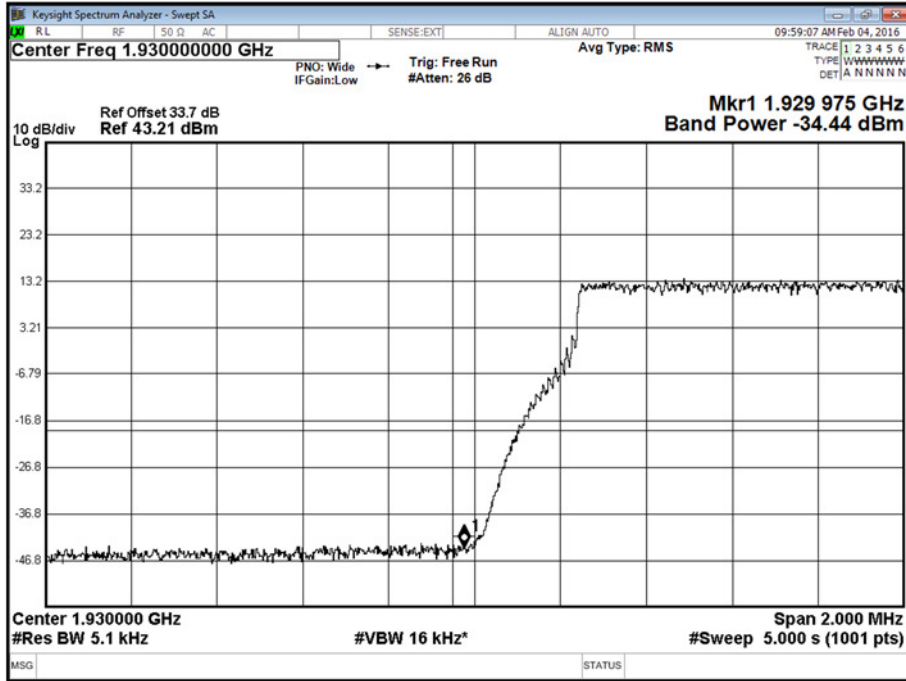


Channel Position T - Bandwidth 3.0 MHz - Antenna C

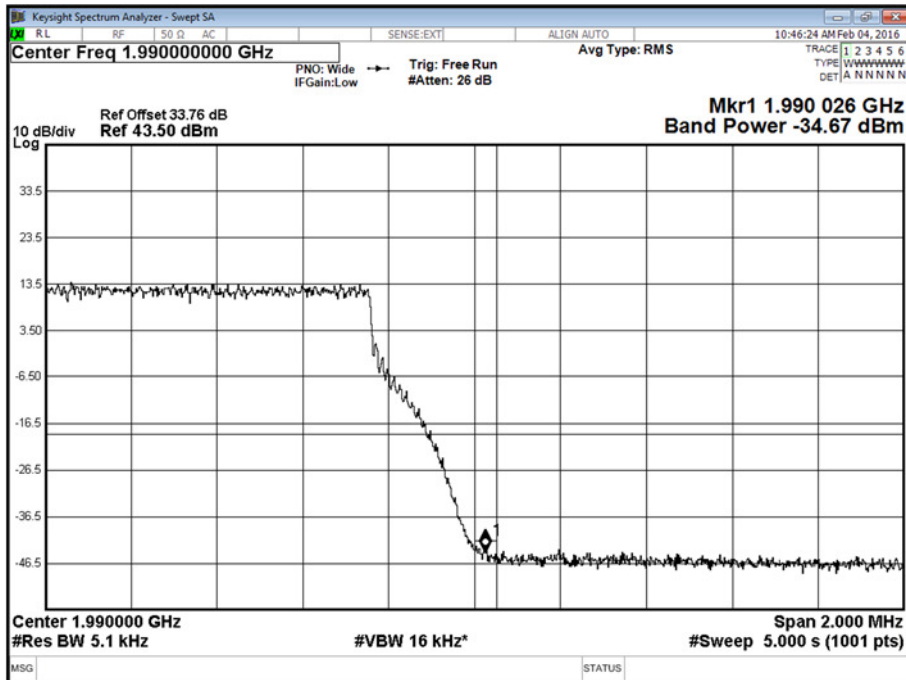




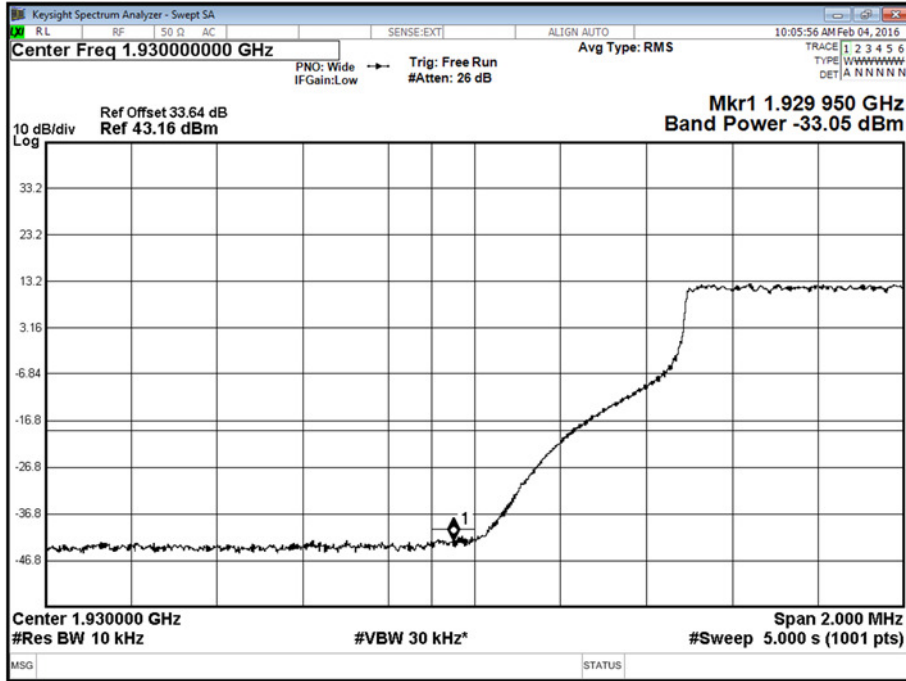
Channel Position B - Bandwidth 5.0 MHz - Antenna C



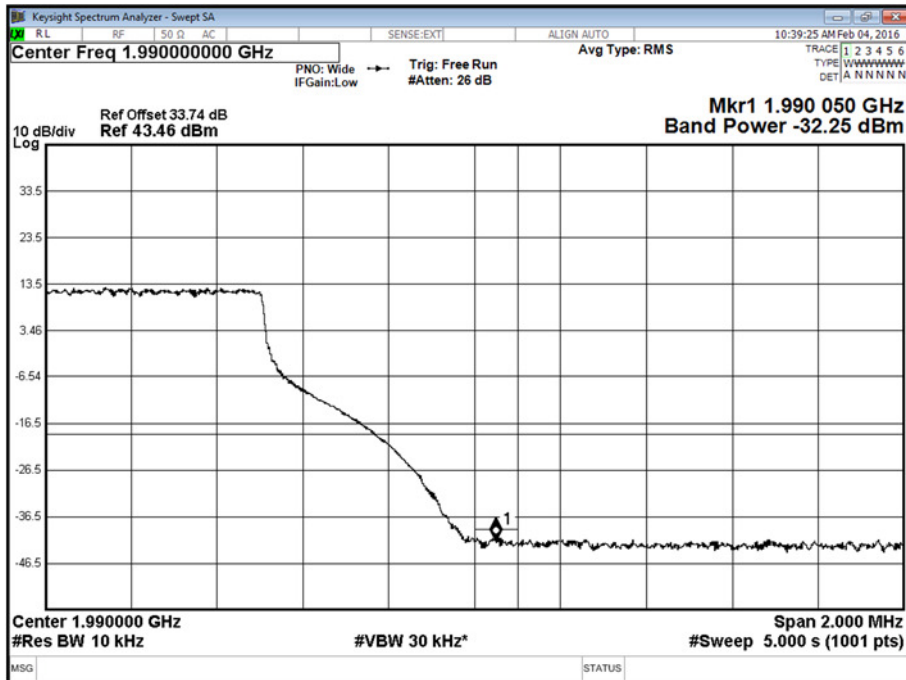
Channel Position T - Bandwidth 5.0 MHz - Antenna C



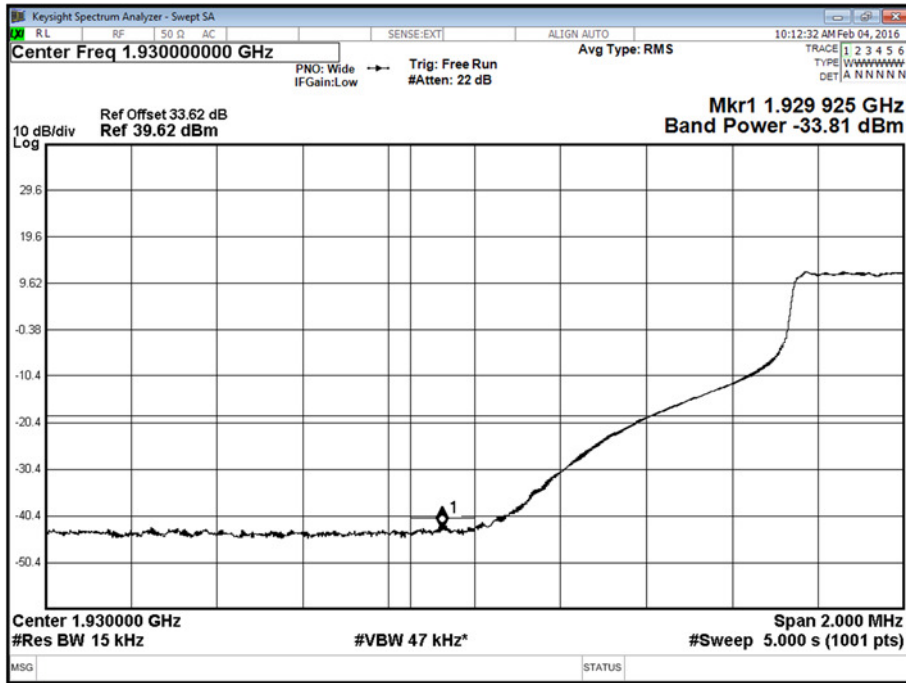
Channel Position B - Bandwidth 10.0 MHz - Antenna C



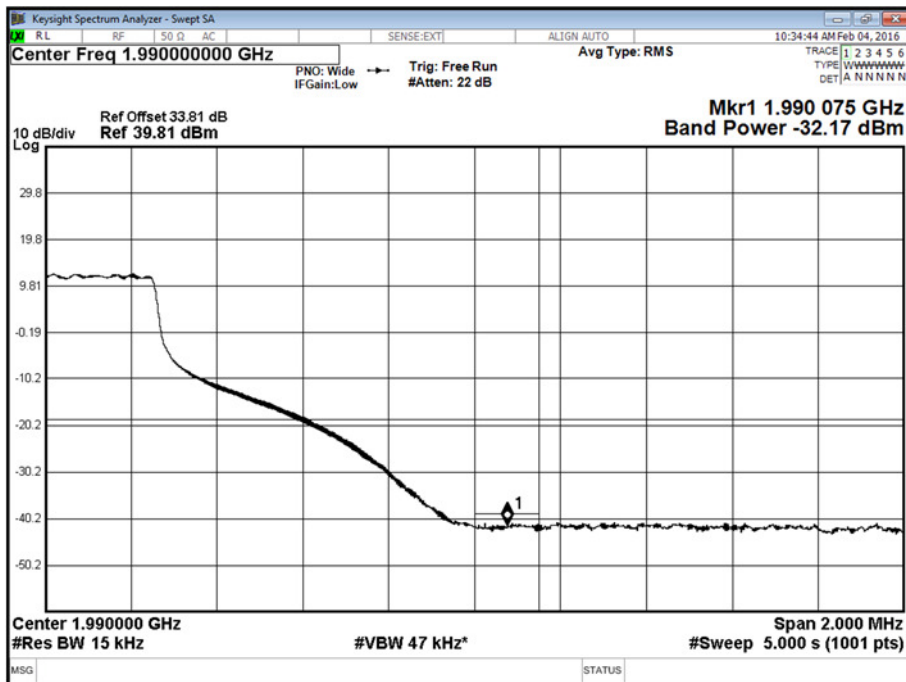
Channel Position T - Bandwidth 10.0 MHz - Antenna C



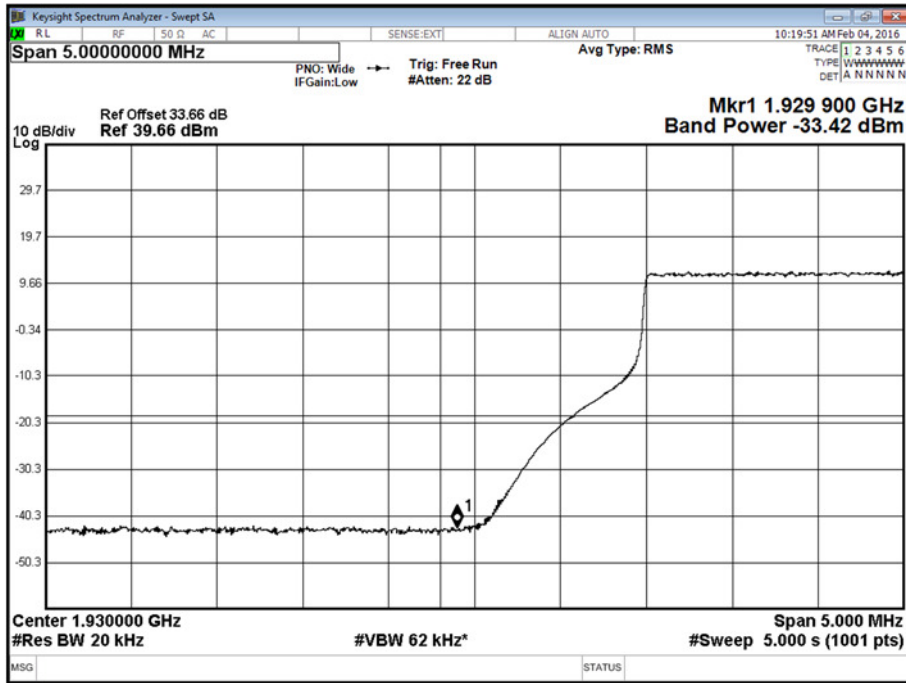
Channel Position B - Bandwidth 15.0 MHz - Antenna C



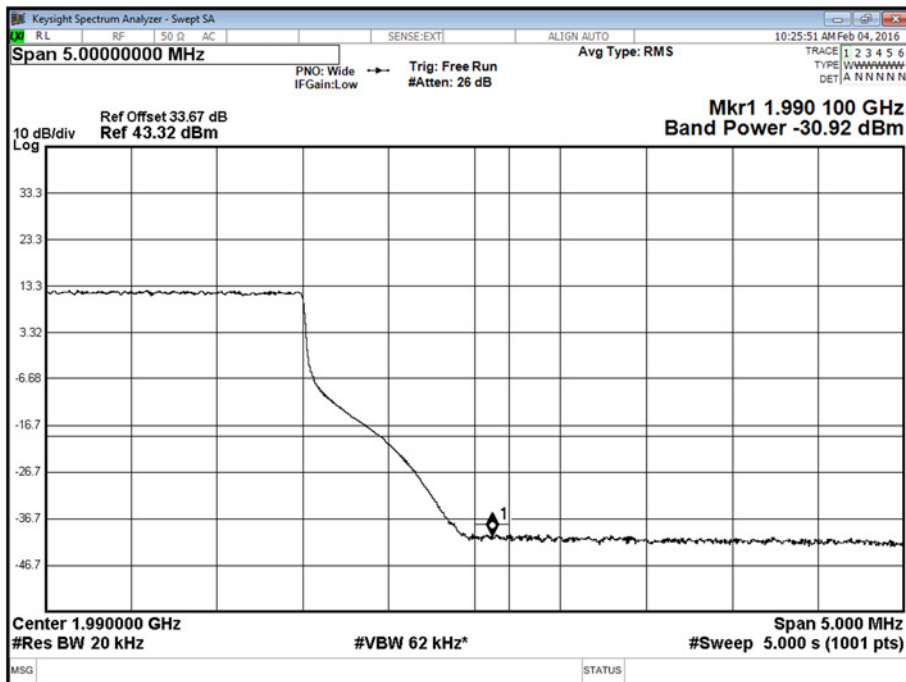
Channel Position T - Bandwidth 15.0 MHz - Antenna C



Channel Position B - Bandwidth 20.0 MHz - Antenna C



Channel Position T - Bandwidth 20.0 MHz - Antenna C

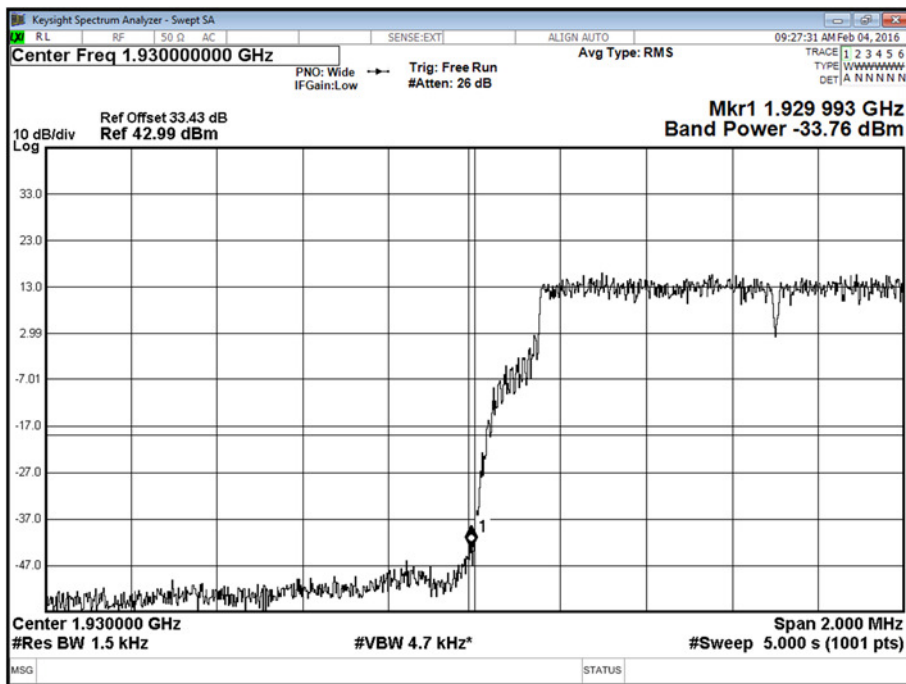


Configuration 4 Antenna D

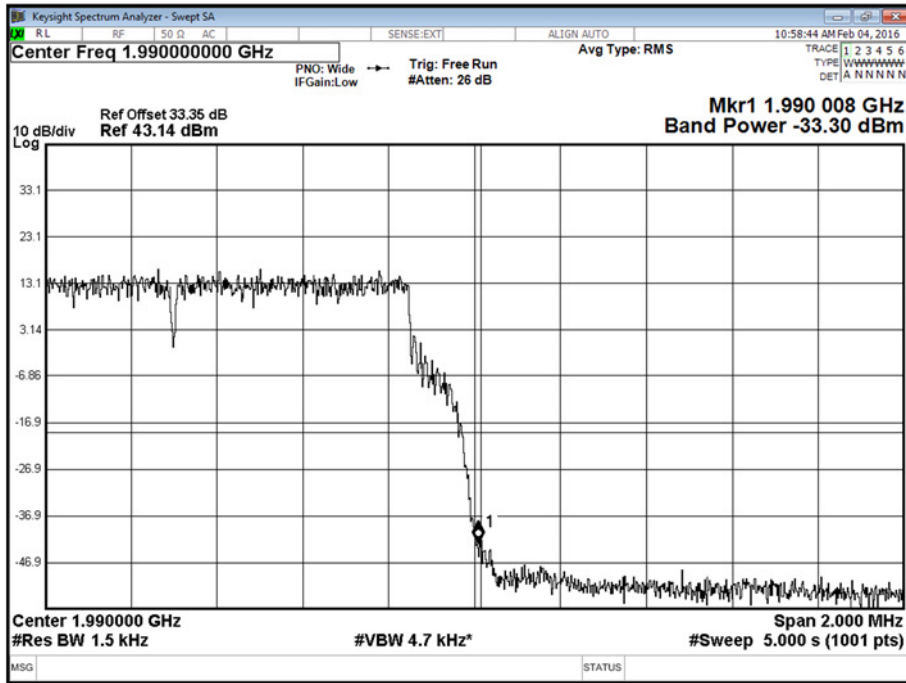
Maximum Output Power 44.77 dBm

Carrier Bandwidth	Modulation	Band Edge (MHz)	
		Channel Position B	Channel Position T
1.4 MHz	QPSK	1930.7 + 1932.1	1987.9 + 1989.3
3.0 MHz	QPSK	1931.5 + 1934.5	1985.5 + 1988.5
5.0 MHz	QPSK	1932.5 + 1937.5	1982.5 + 1987.5
10.0 MHz	QPSK	1935 + 1945	1975 + 1985
15.0 MHz	QPSK	1937.5 + 1952.5	1967.5 + 1982.5
20.0 MHz	QPSK	1940 + 1960	1960 + 1980

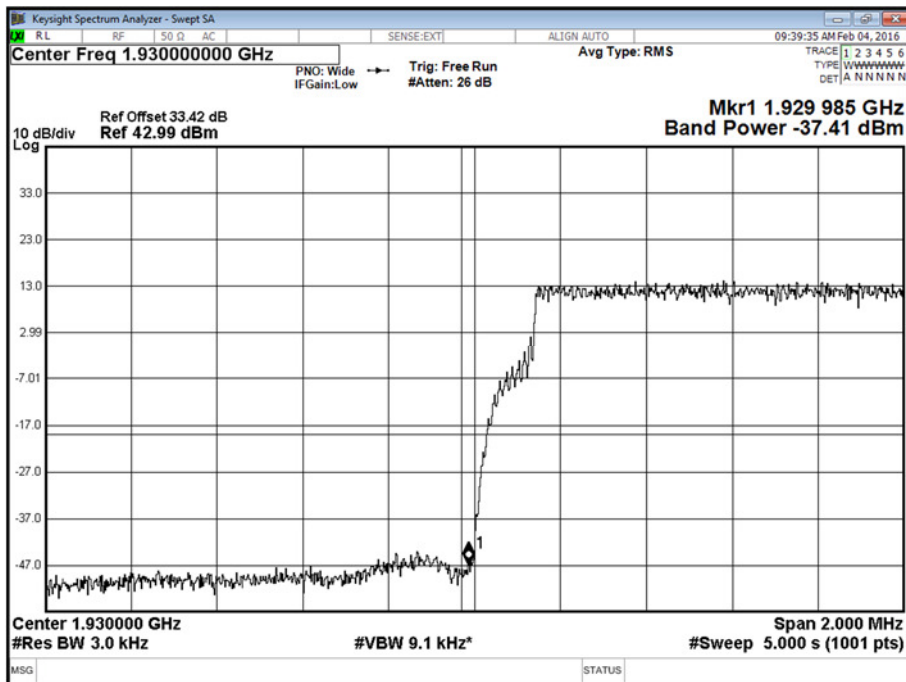
Channel Position B - Bandwidth 1.4 MHz - Antenna D



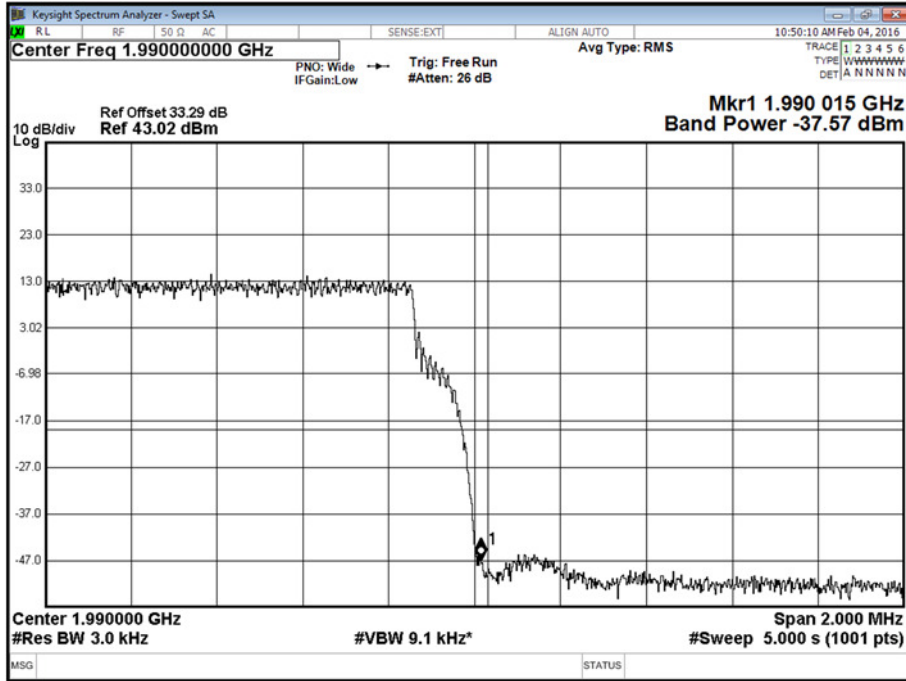
Channel Position T - Bandwidth 1.4 MHz - Antenna D



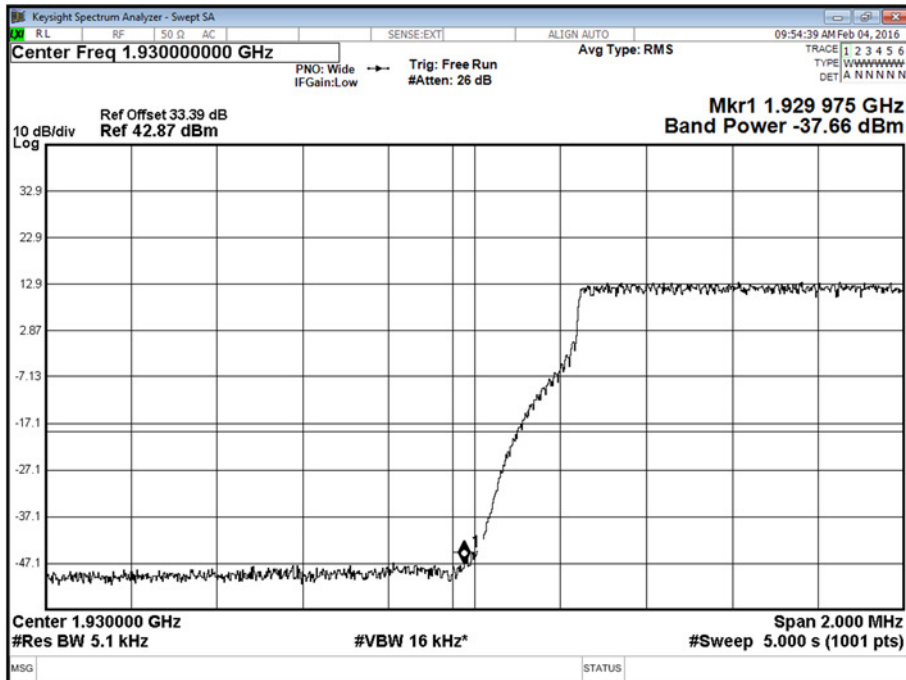
Channel Position B - Bandwidth 3.0 MHz - Antenna D



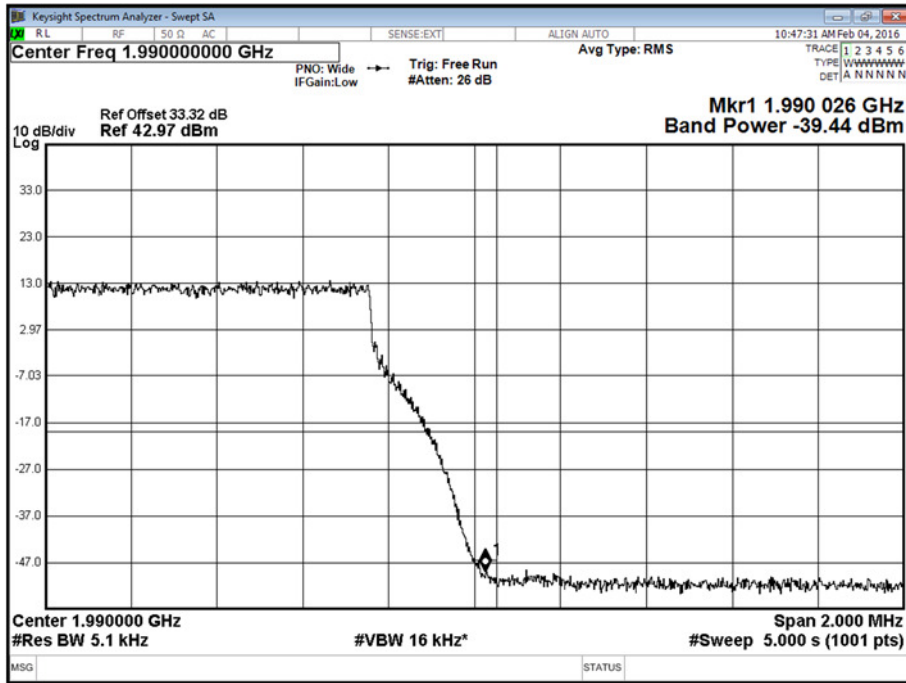
Channel Position T - Bandwidth 3.0 MHz - Antenna D



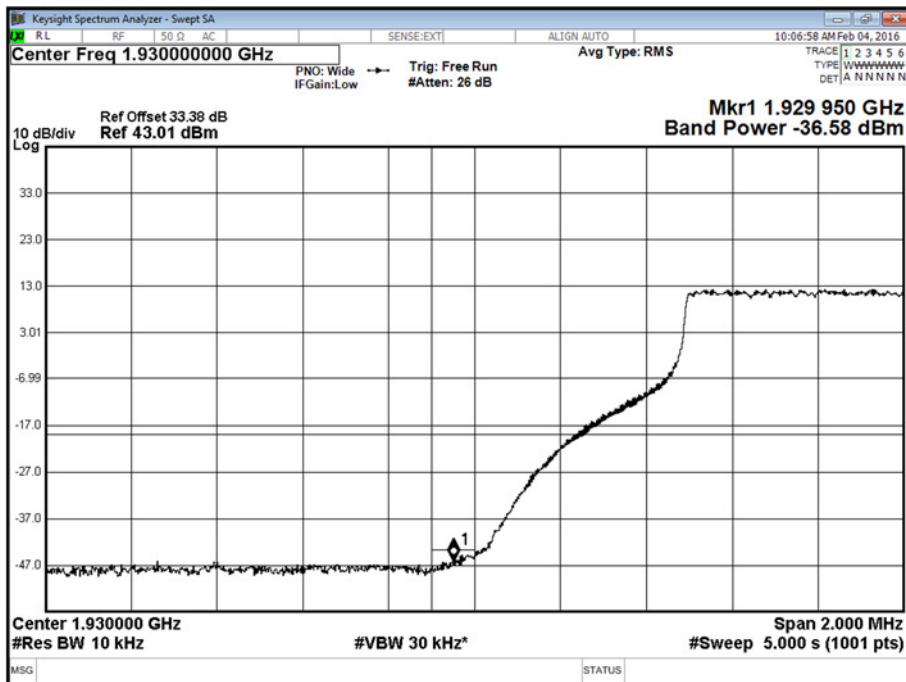
Channel Position B - Bandwidth 5.0 MHz - Antenna D



Channel Position T - Bandwidth 5.0 MHz - Antenna D

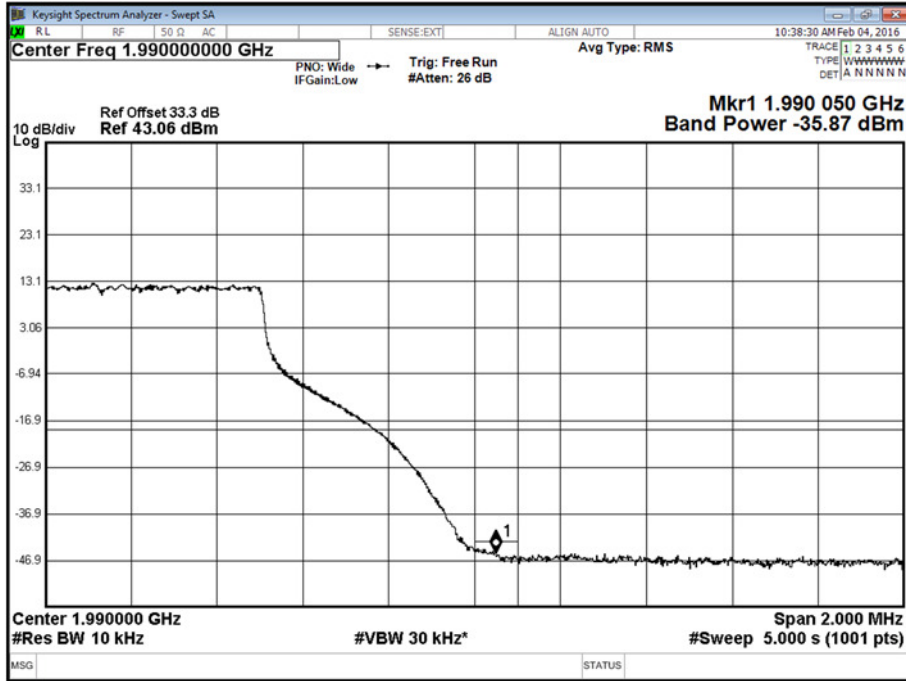


Channel Position B - Bandwidth 10.0 MHz - Antenna D

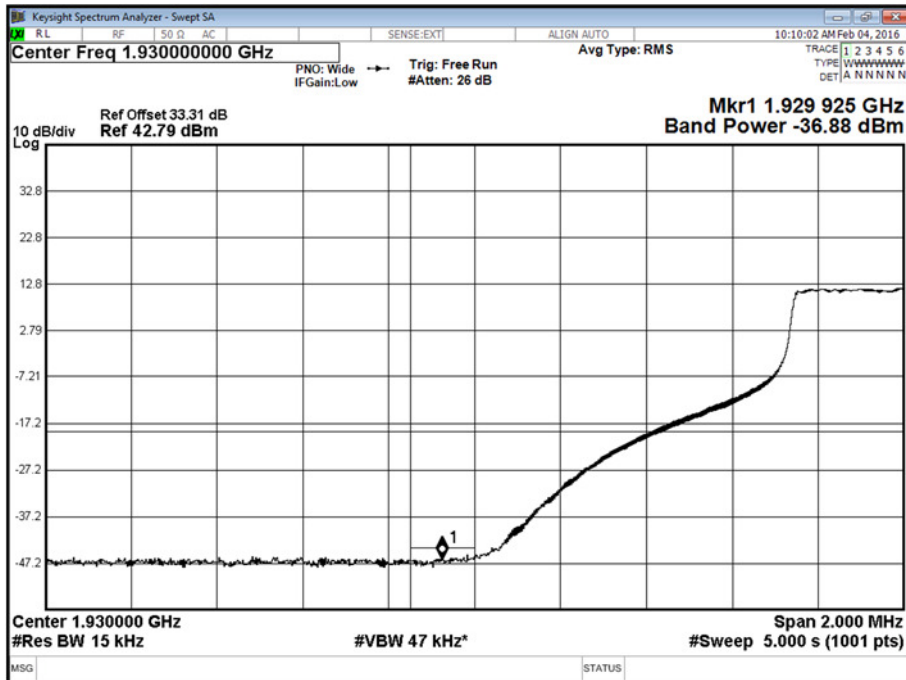




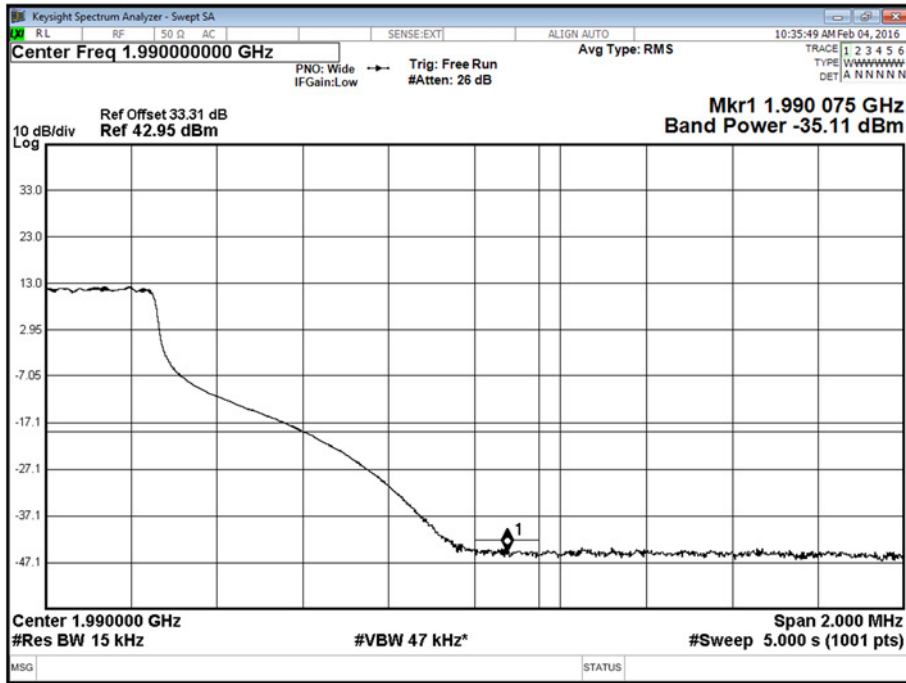
Channel Position T - Bandwidth 10.0 MHz - Antenna D



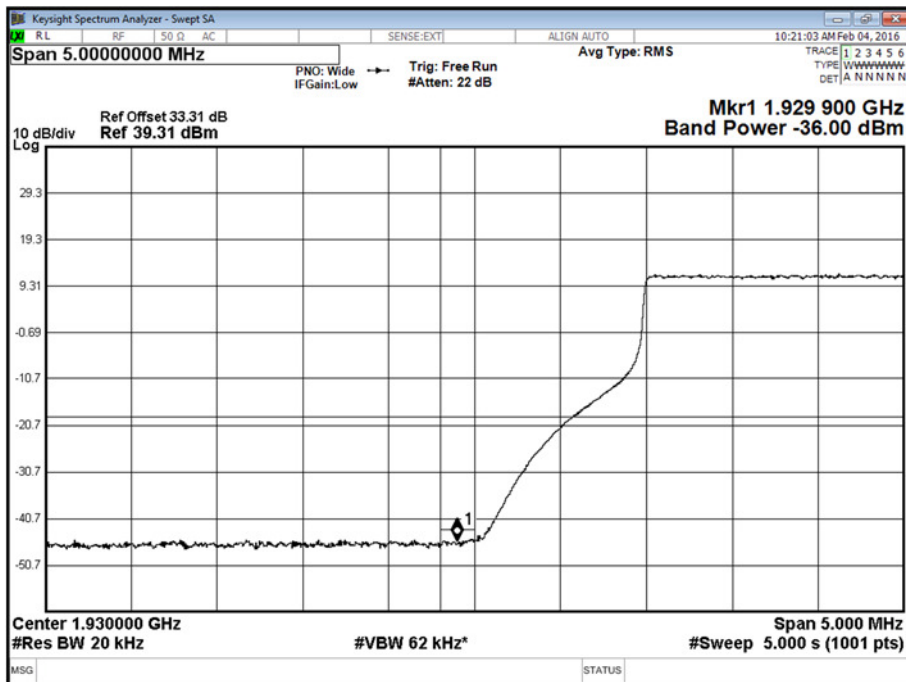
Channel Position B - Bandwidth 15.0 MHz - Antenna D



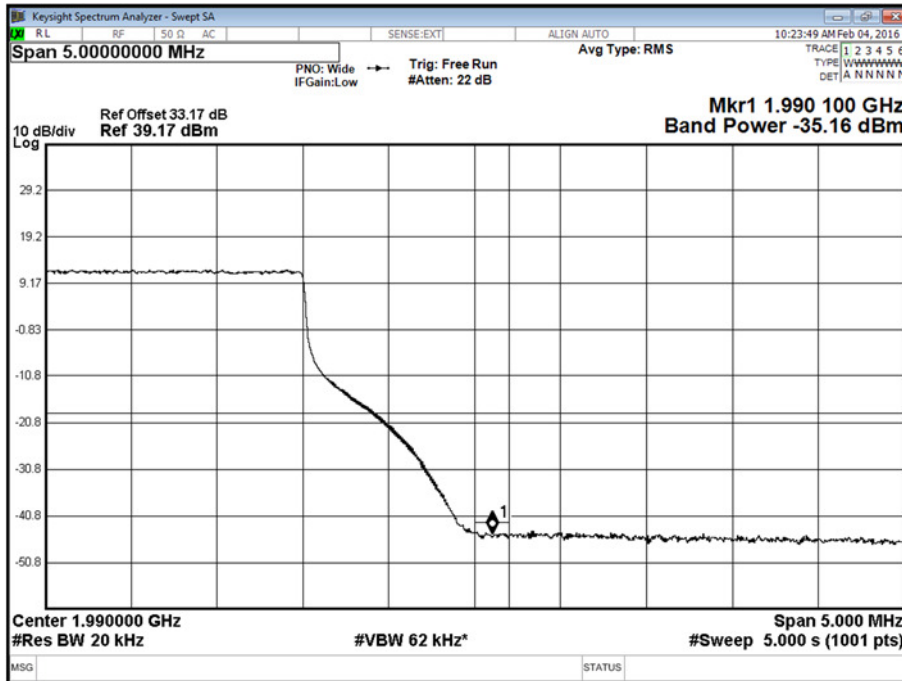
Channel Position T - Bandwidth 15.0 MHz - Antenna D



Channel Position B - Bandwidth 20.0 MHz - Antenna D



Channel Position T - Bandwidth 20.0 MHz - Antenna D



Configuration 8 Antenna A

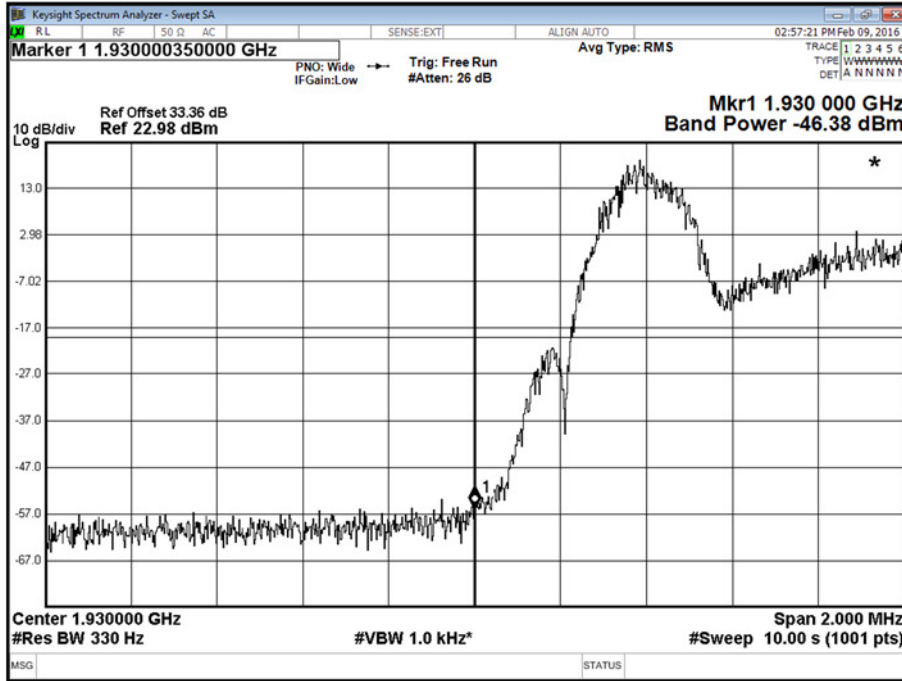
Maximum Output Power 44.77 dBm

Modulation (GSM / WCDMA)	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
AQPSK / 16QAM	1930.4 (G) + 1932.8 (W)	1987.2 (W) + 1989.6 (G)

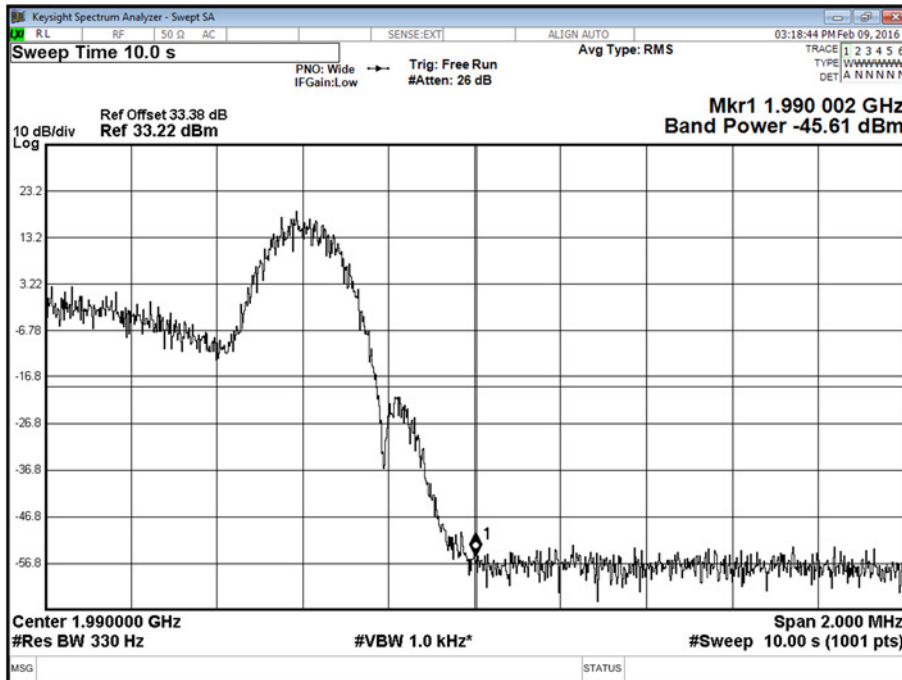
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz.

Channel Position BRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna A



Channel Position TRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna A



Configuration 8 Antenna B

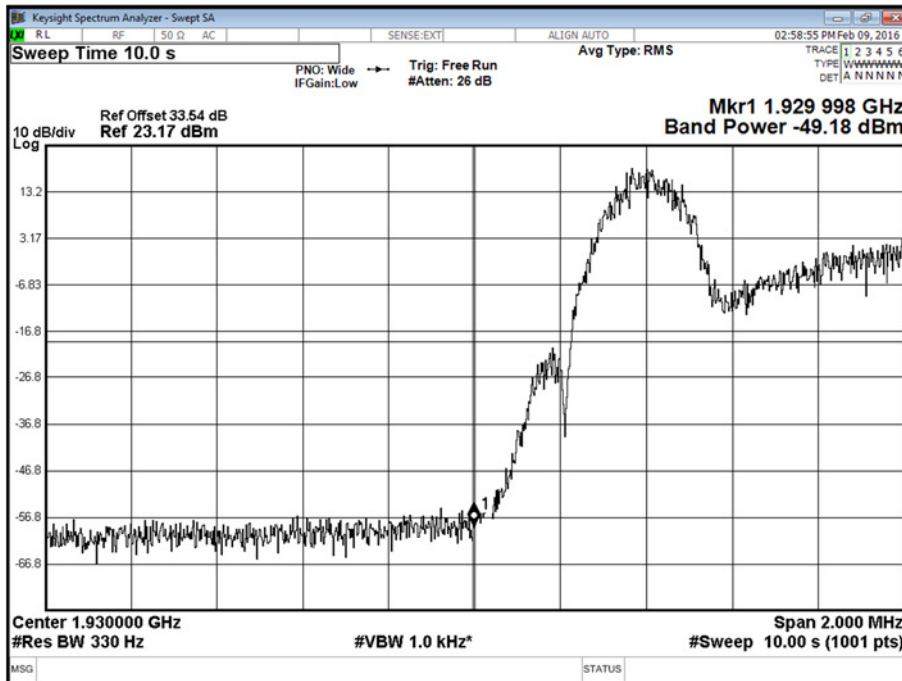
Maximum Output Power 44.77 dBm

Modulation (GSM / WCDMA)	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
AQPSK / 16QAM	1930.4 (G) + 1932.8 (W)	1987.2 (W) + 1989.6 (G)

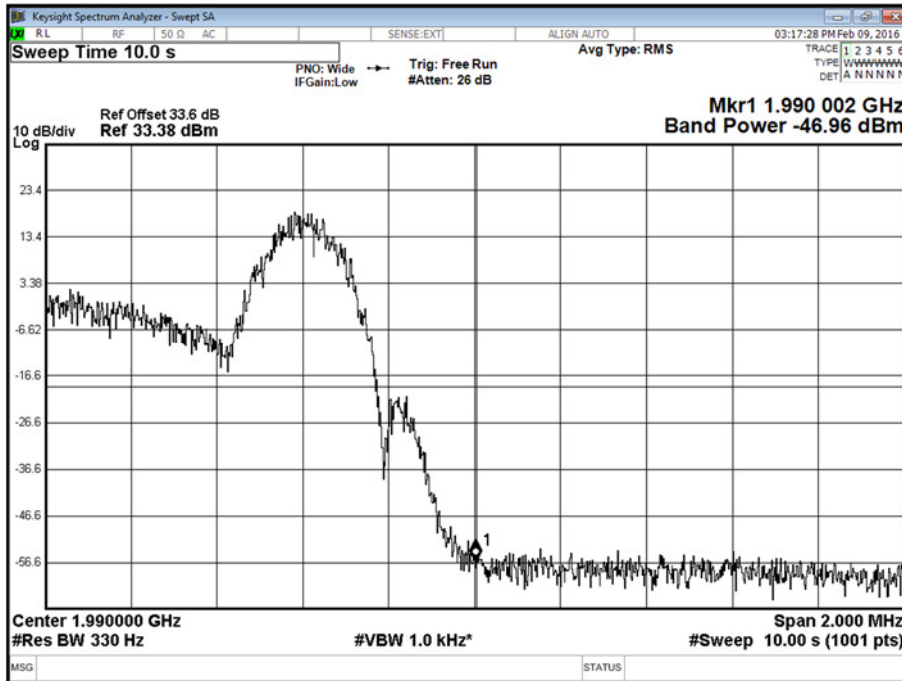
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz.

Channel Position BRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna B



Channel Position TRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna B



Configuration 8 Antenna C

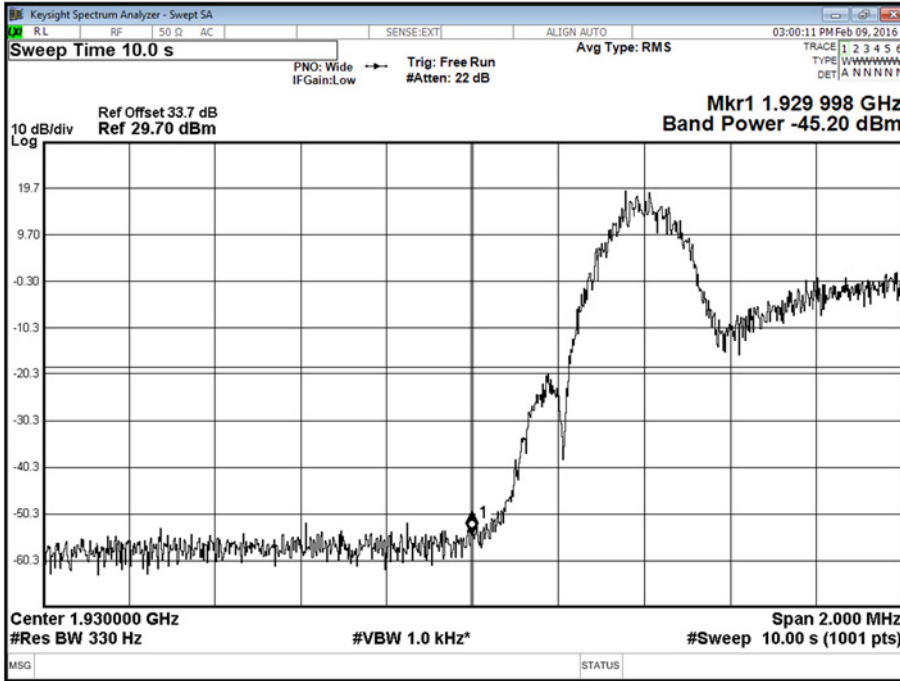
Maximum Output Power 44.77 dBm

Modulation (GSM / WCDMA)	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
AQPSK / 16QAM	1930.4 (G) + 1932.8 (W)	1987.2 (W) + 1989.6 (G)

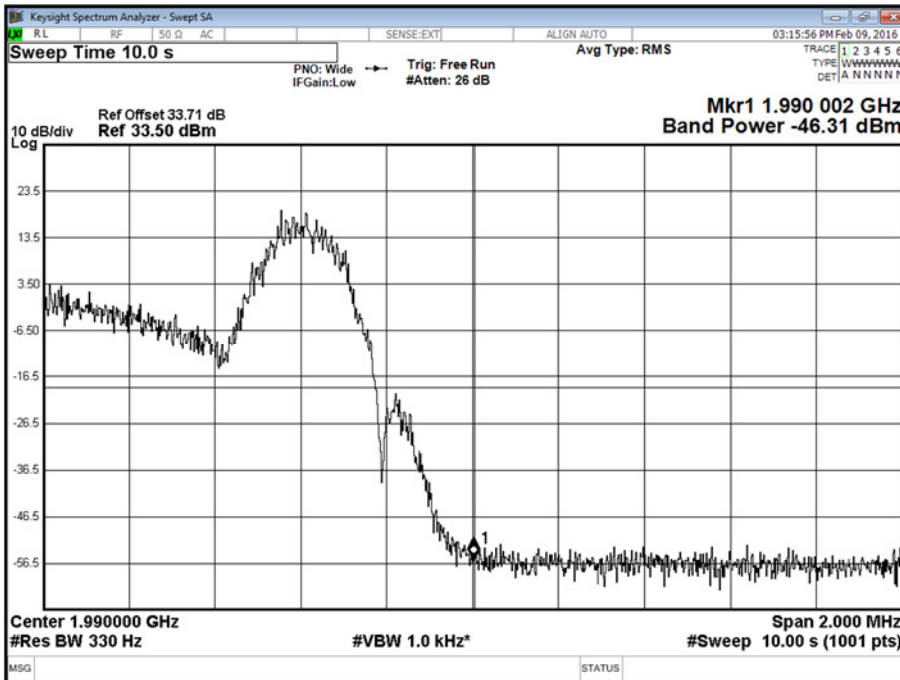
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz.

Channel Position BRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna C



Channel Position TRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna C



Configuration 8 Antenna D

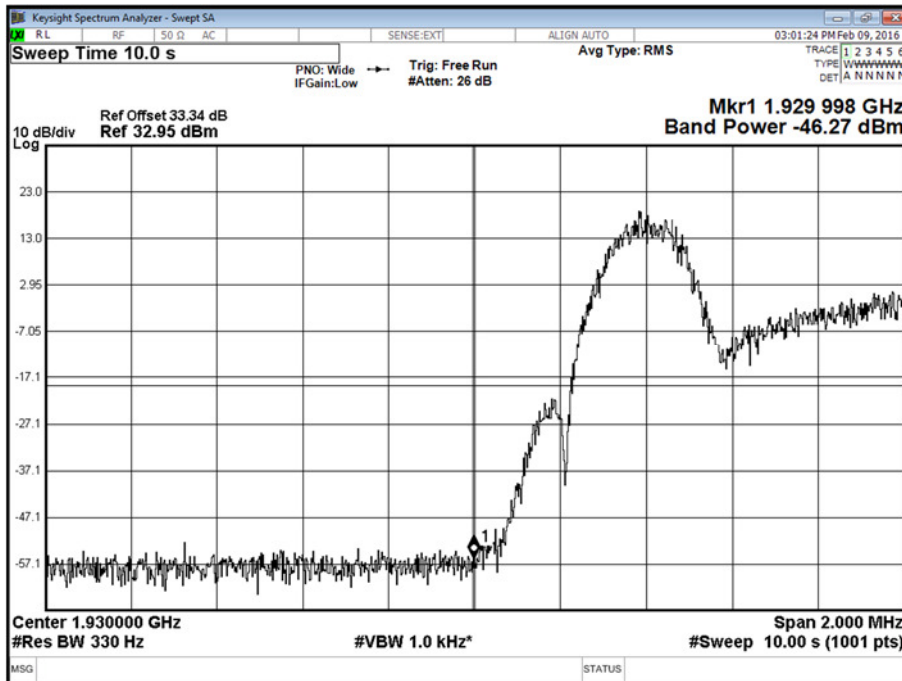
Maximum Output Power 44.77 dBm

Modulation (GSM / WCDMA)	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
AQPSK / 16QAM	1930.4 (G) + 1932.8 (W)	1987.2 (W) + 1989.6 (G)

Remarks

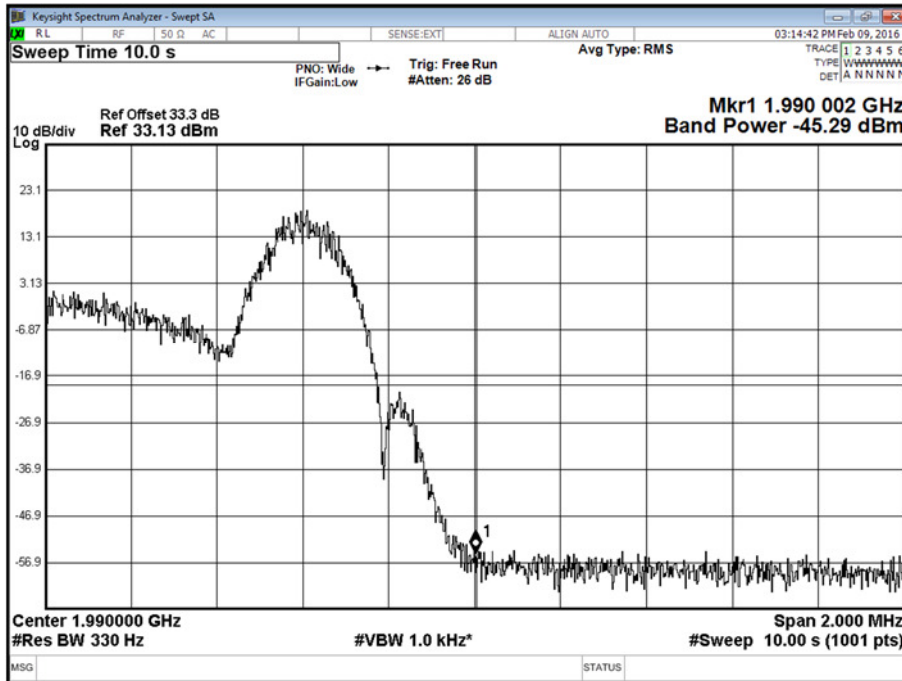
GSM carrier on band edge was placed in band by an additional 200 kHz.

Channel Position BRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna D





Channel Position TRFBW - Modulation (GSM / WCDMA) AQPSK / 16QAM - Antenna D



Configuration 10 Antenna A

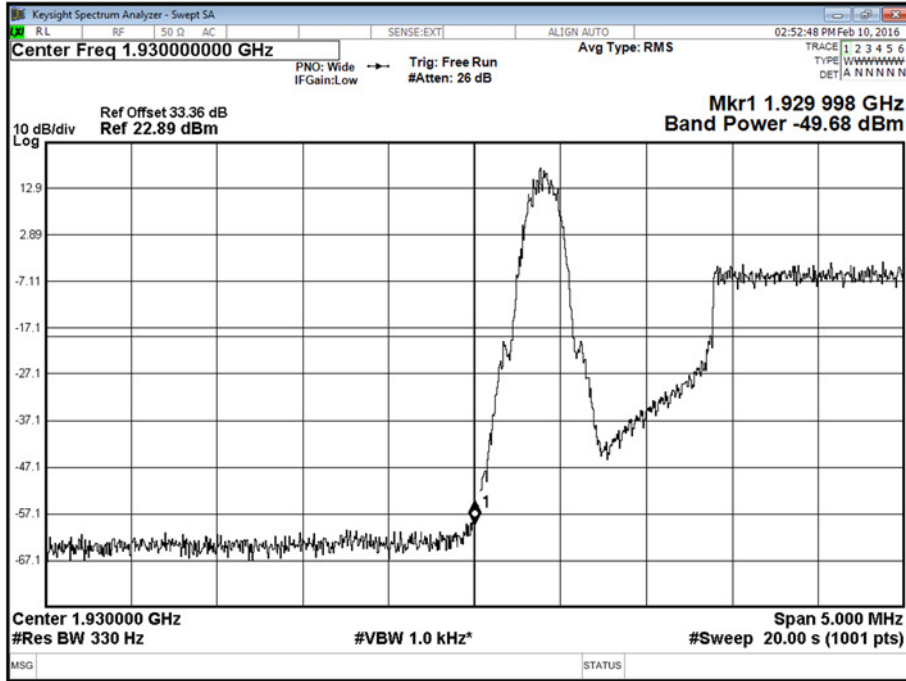
Maximum Output Power 44.77 dBm

GSM Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
GMSK / 20.0 MHz	1930.4 (G) + 1940.4 (L)	1979.6 (L) + 1989.6 (G)

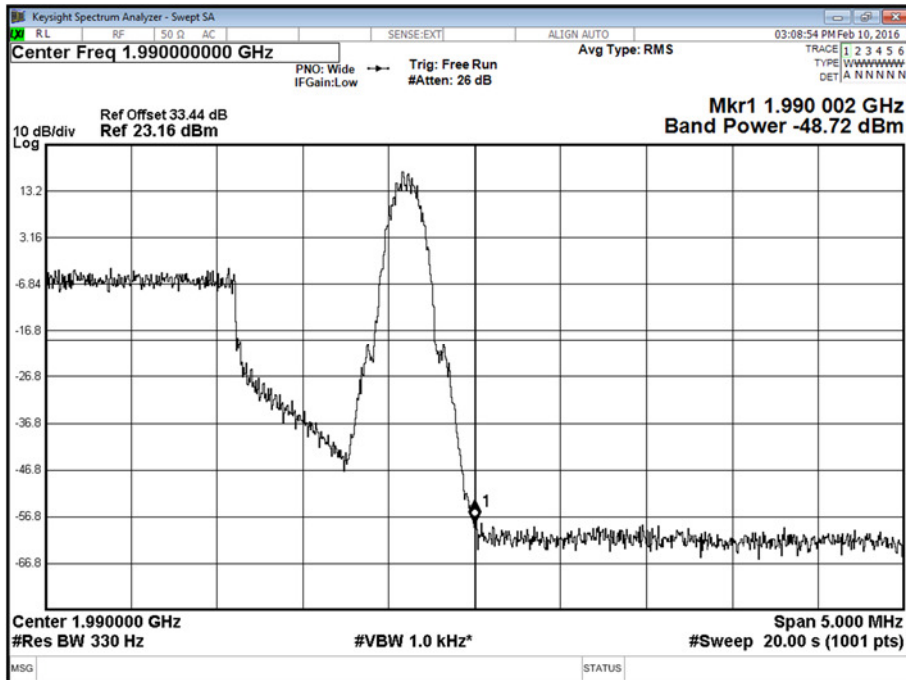
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. LTE modulation = QPSK

Channel Position BRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna A



Channel Position TRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna A



Configuration 10 Antenna B

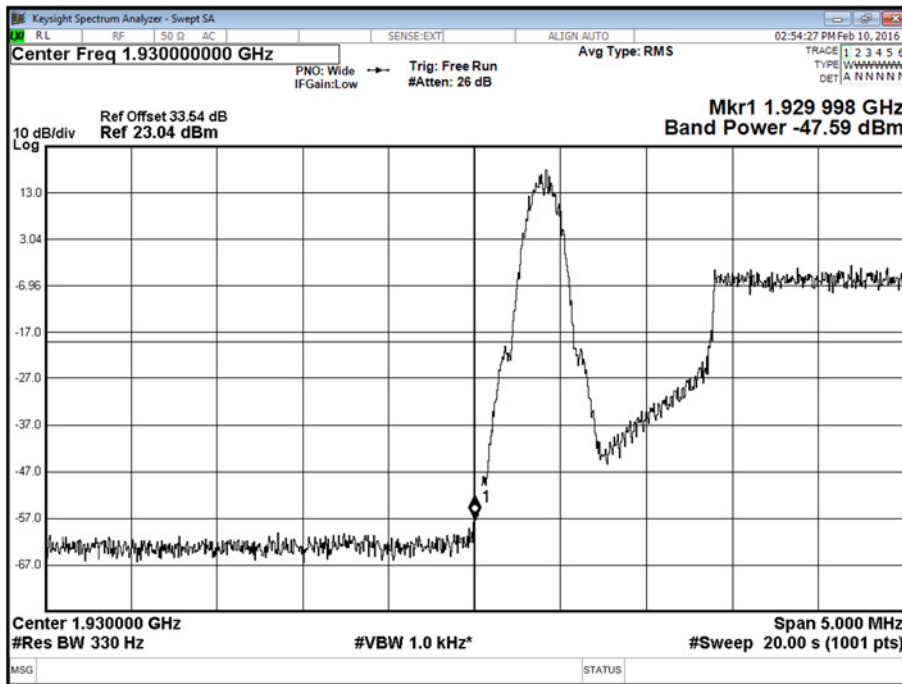
Maximum Output Power 44.77 dBm

GSM Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
GMSK / 20.0 MHz	1930.4 (G) + 1940.4 (L)	1979.6 (L) + 1989.6 (G)

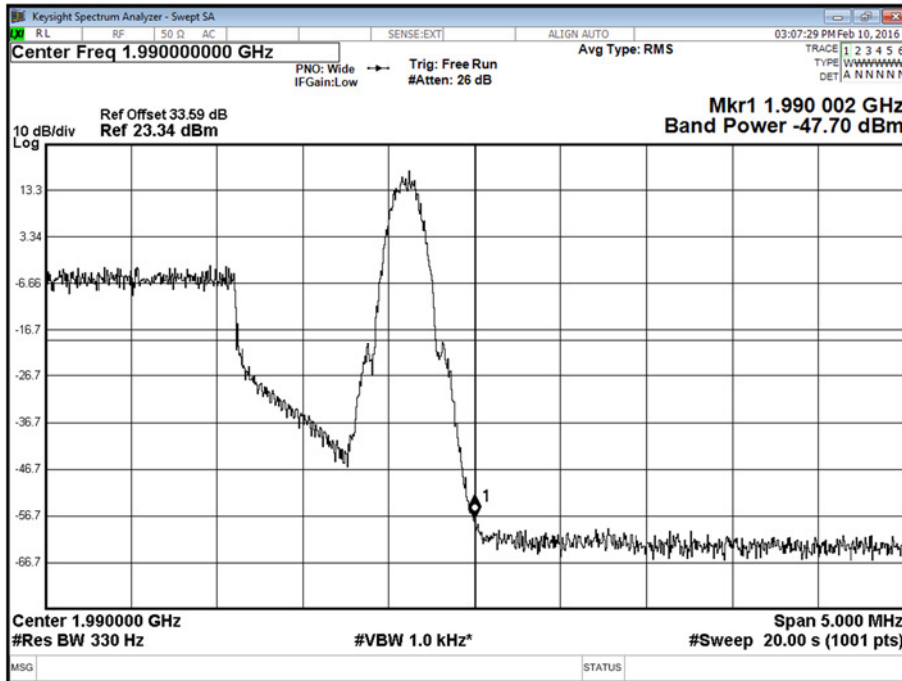
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. LTE modulation = QPSK

Channel Position BRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna B



Channel Position TRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna B



Configuration 10 Antenna C

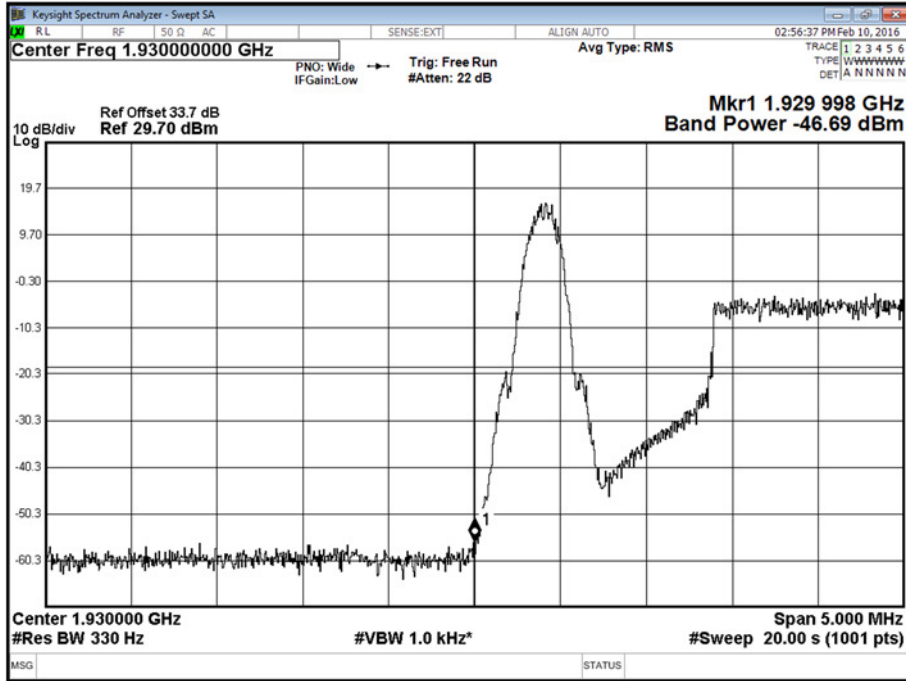
Maximum Output Power 44.77 dBm

GSM Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
GMSK / 20.0 MHz	1930.4 (G) + 1940.4 (L)	1979.6 (L) + 1989.6 (G)

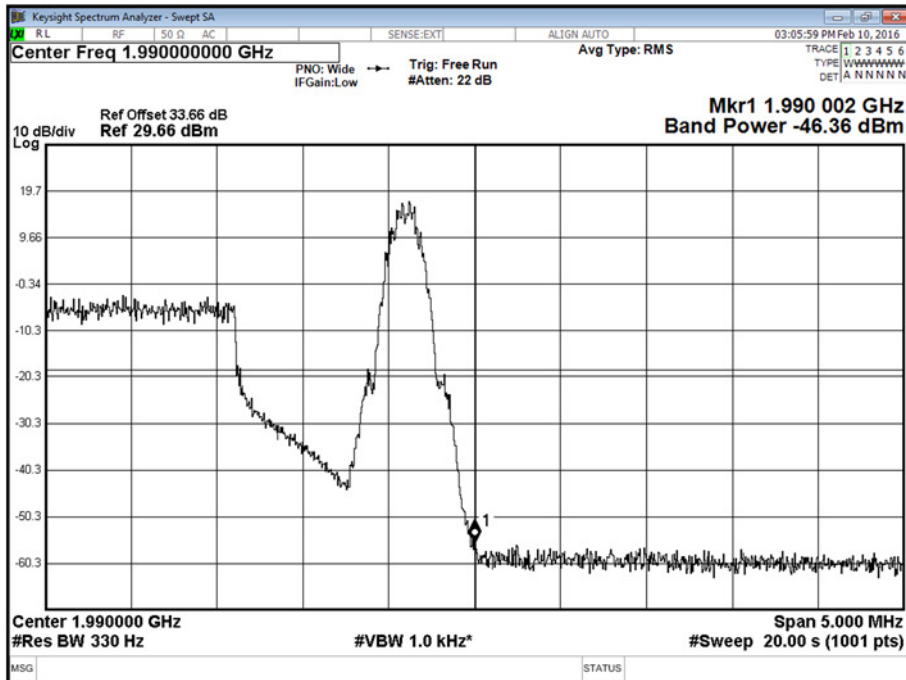
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. LTE modulation = QPSK

Channel Position BRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna C



Channel Position TRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna C



Configuration 10 Antenna D

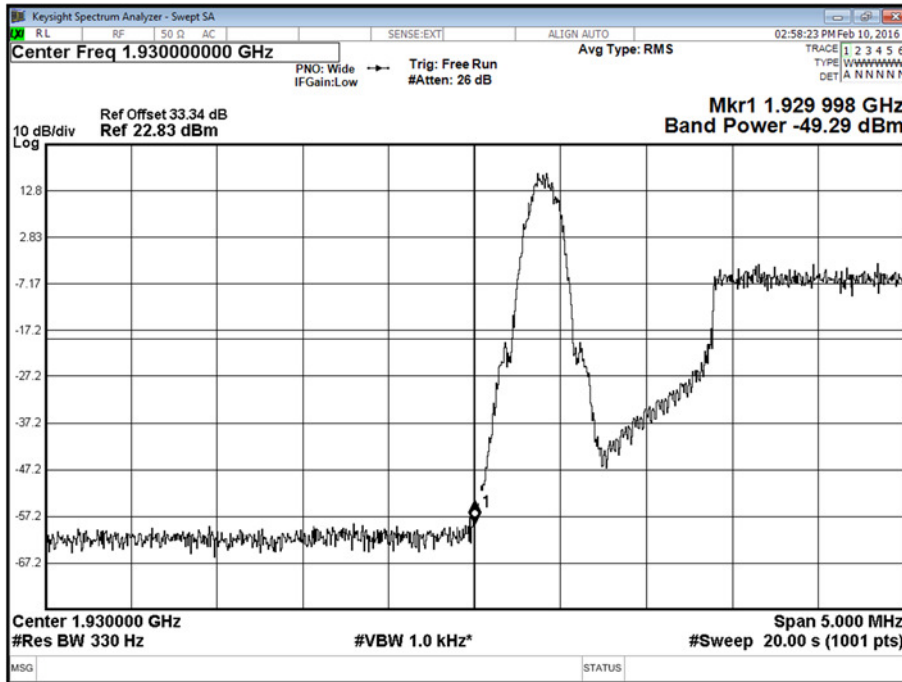
Maximum Output Power 44.77 dBm

GSM Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
GMSK / 20.0 MHz	1930.4 (G) + 1940.4 (L)	1979.6 (L) + 1989.6 (G)

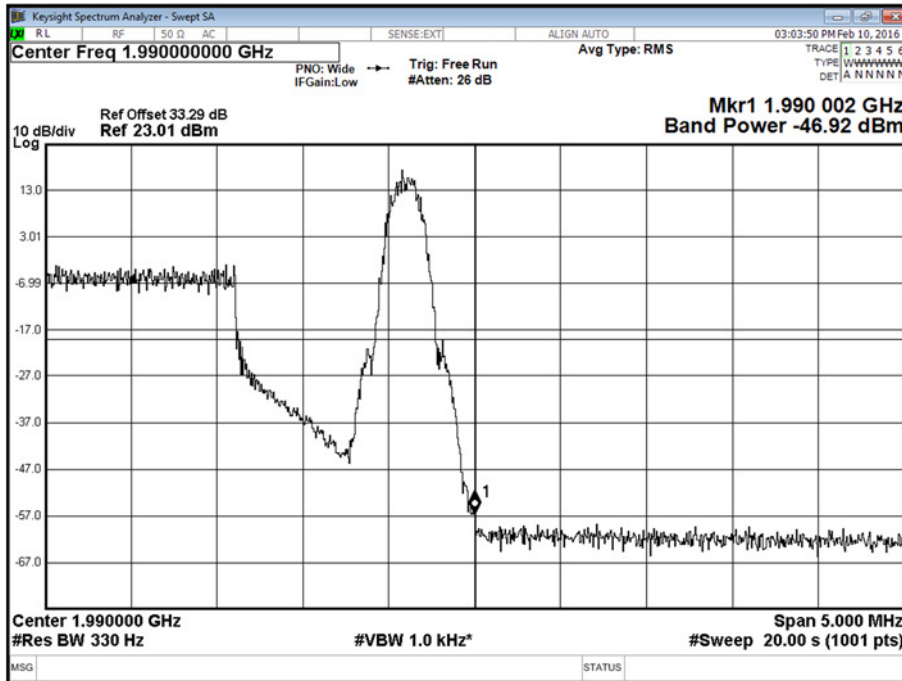
Remarks

GSM carrier on band edge was placed in band by an additional 200 kHz. LTE modulation = QPSK

Channel Position BRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna D



Channel Position TRFBW - GSM Modulation / LTE Bandwidth GMSK / 20.0 MHz - Antenna D



Configuration 6 Antenna A

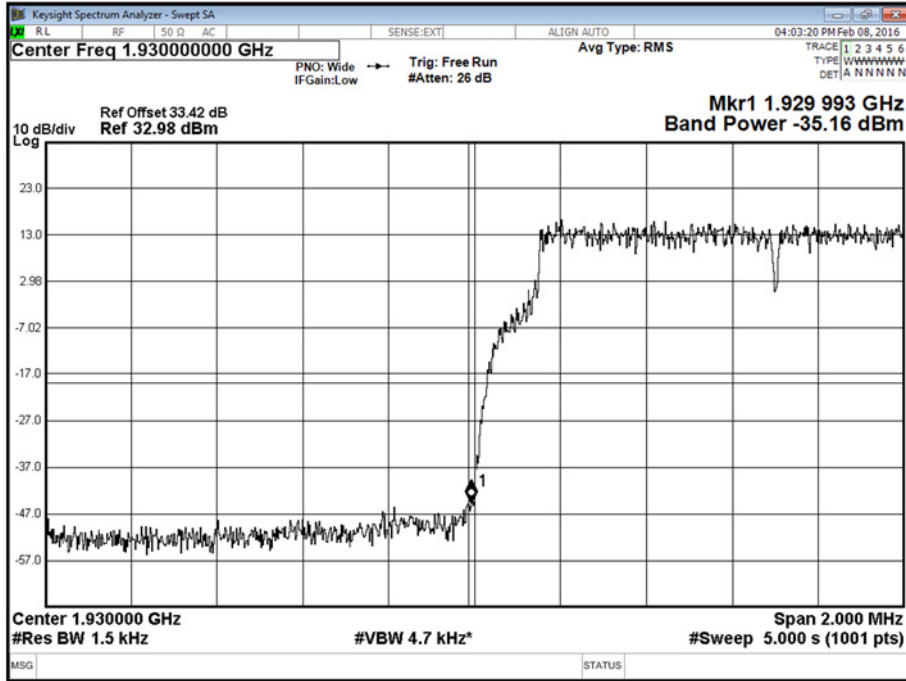
Maximum Output Power 44.77 dBm

WCDMA Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
16QAM / 1.4 MHz	1930.7 (L) + 1933.2 (W)	1986.8 (W) + 1989.3 (L)

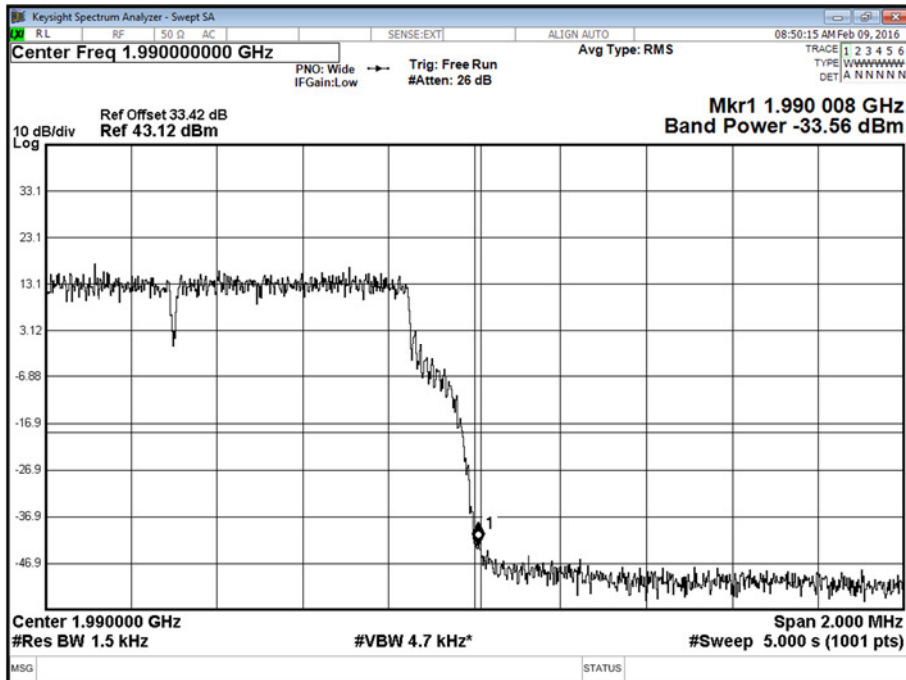
Remarks

LTE Modulation = QPSK

Channel Position BRFBW - Bandwidth 1.4 MHz - Antenna A



Channel Position TRFBW - Bandwidth 1.4 MHz - Antenna A





Configuration 6 Antenna B

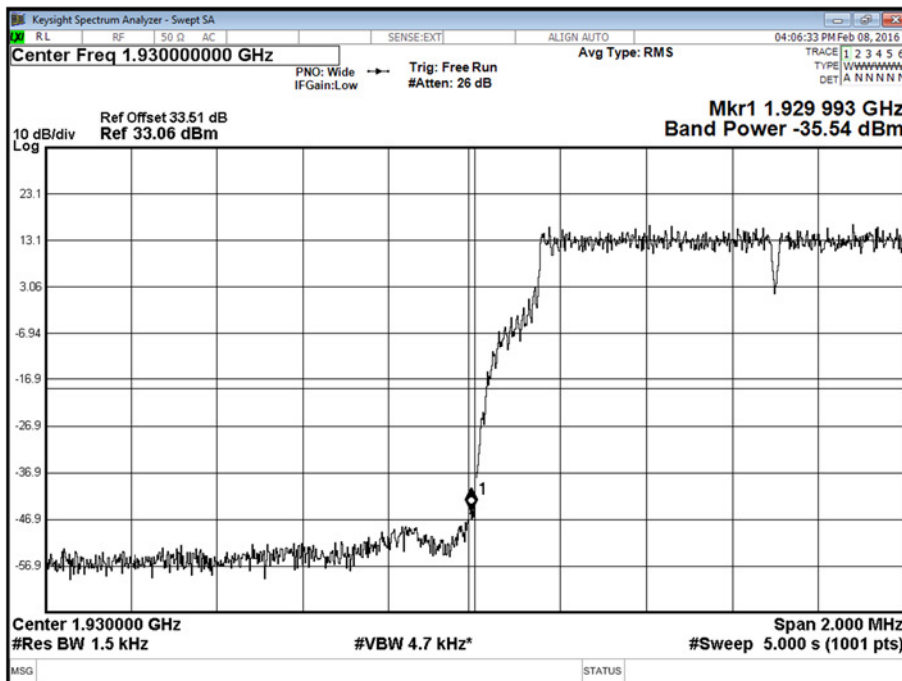
Maximum Output Power 44.77 dBm

WCDMA Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
16QAM / 1.4 MHz	1930.7 (L) + 1933.2 (W)	1986.8 (W) + 1989.3 (L)

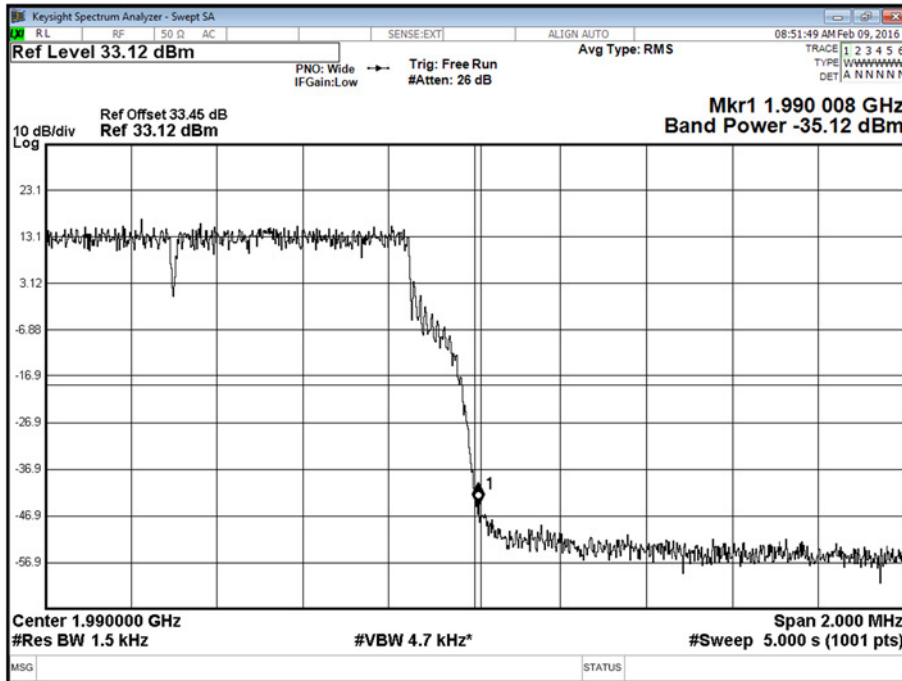
Remarks

LTE Modulation = QPSK

Channel Position BRFBW - Bandwidth 1.4 MHz - Antenna B



Channel Position TRFBW - Bandwidth 1.4 MHz - Antenna B



Configuration 6 Antenna C

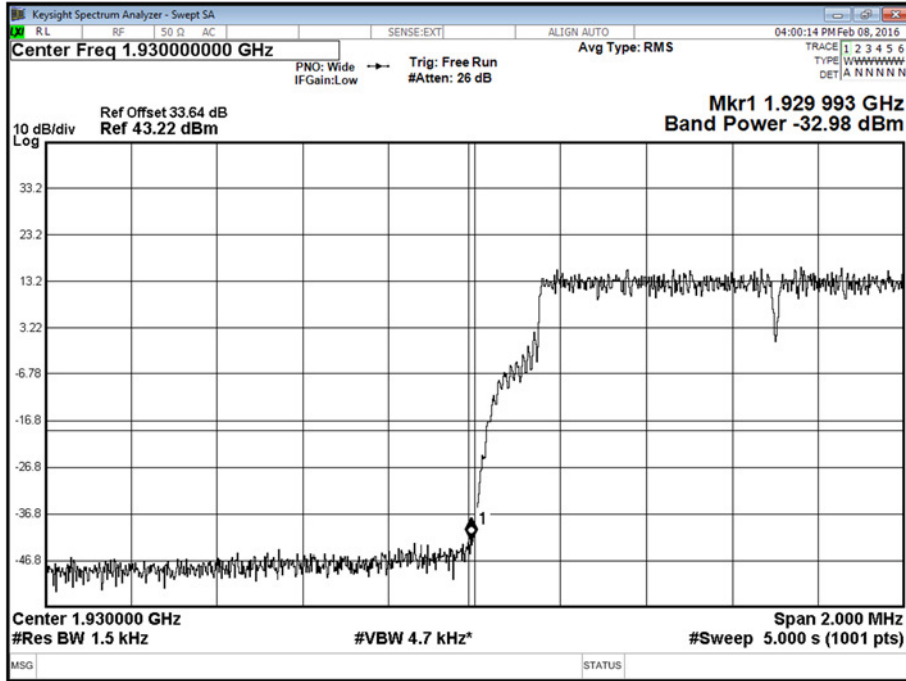
Maximum Output Power 44.77 dBm

WCDMA Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
16QAM / 1.4 MHz	1930.7 (L) + 1933.2 (W)	1986.8 (W) + 1989.3 (L)

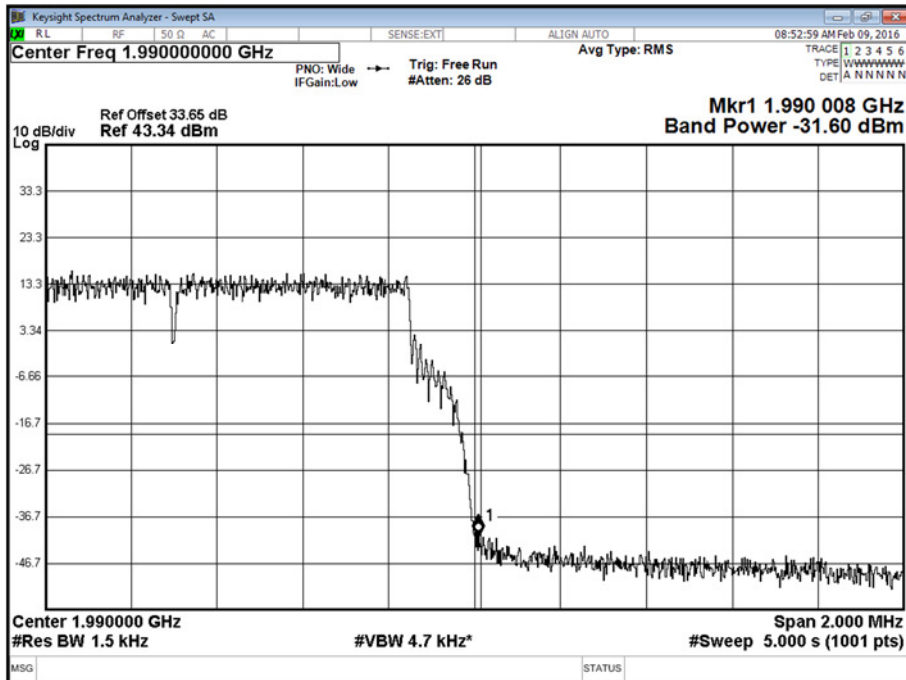
Remarks

LTE Modulation = QPSK

Channel Position BRFBW - Bandwidth 1.4 MHz - Antenna C



Channel Position TRFBW - Bandwidth 1.4 MHz - Antenna C



Configuration 6 Antenna D

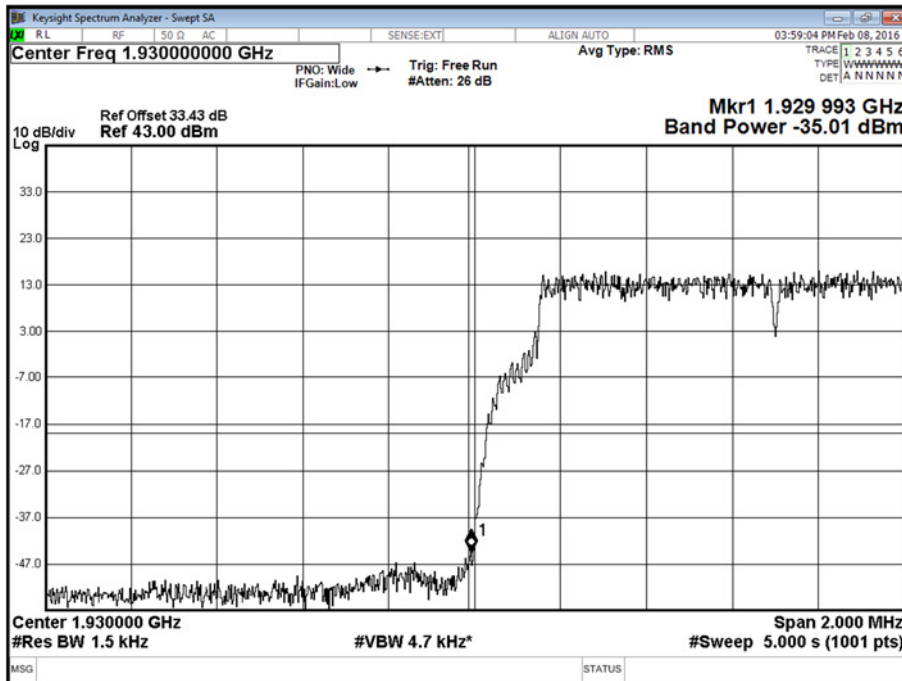
Maximum Output Power 44.77 dBm

WCDMA Modulation / LTE Bandwidth	Band Edge (MHz)	
	Channel Position BRFBW	Channel Position TRFBW
16QAM / 1.4 MHz	1930.7 (L) + 1933.2 (W)	1986.8 (W) + 1989.3 (L)

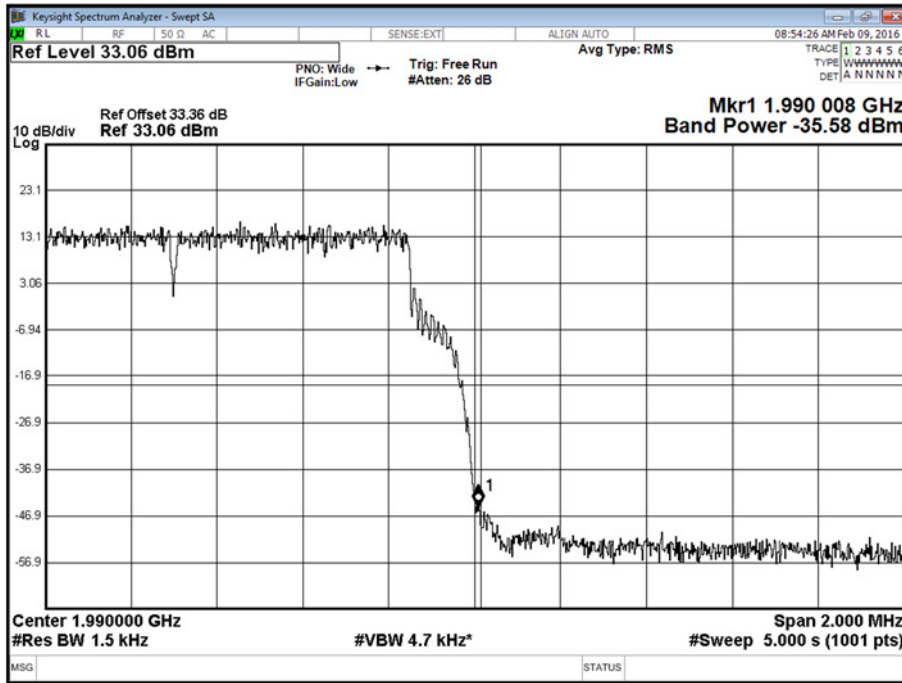
Remarks

LTE Modulation = QPSK

Channel Position BRFBW - Bandwidth 1.4 MHz - Antenna D



Channel Position TRFBW - Bandwidth 1.4 MHz - Antenna D



Limit	-19 dBm
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## 2.4 TRANSMITTER SPURIOUS EMISSIONS

### 2.4.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051  
FCC CFR 47 Part 24, Clause 24.238 (a)  
Industry Canada RSS-133, Clause 6.5

### 2.4.2 Date of Test and Modification State

02, 03, 04, 08, 09 and 10 February 2016 - Modification State 0

### 2.4.3 Test Equipment Used

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

### 2.4.4 Environmental Conditions

Ambient Temperature	22.9 - 26.6°C
Relative Humidity	20.4 - 27.3%

### 2.4.5 Test Method

The EUT was connected to a Signal Analyser via an attenuator and an RF switch for measurements from 9 KHz to 20 GHz except the measurement band from 3.5 GHz to 12 GHz where an additional high pass filter was used.

The path loss between the EUT and the Analyser was measured using a Network Analyser and entered as a Reference Level Offset.

The EUT was set to transmit at its maximum rated output power in the configurations described below.

The analyser was set to measure with RBW/VBW at 1 MHz and 3 MHz respectively using an RMS detector and trace Clear Write.

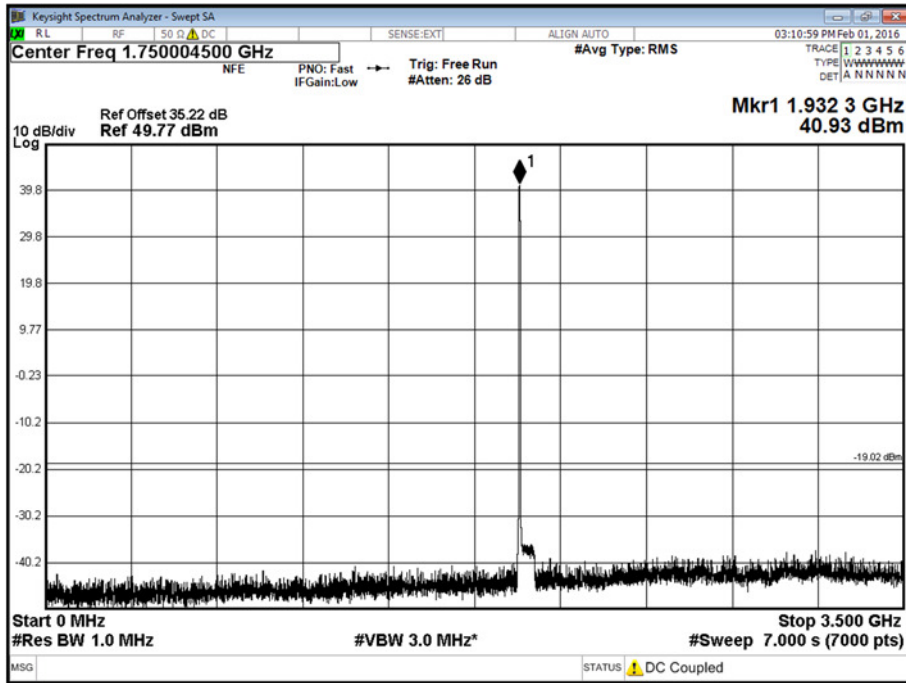
The test limits were set to a worst case value of -19 dBm.

### 2.4.6 Test Results

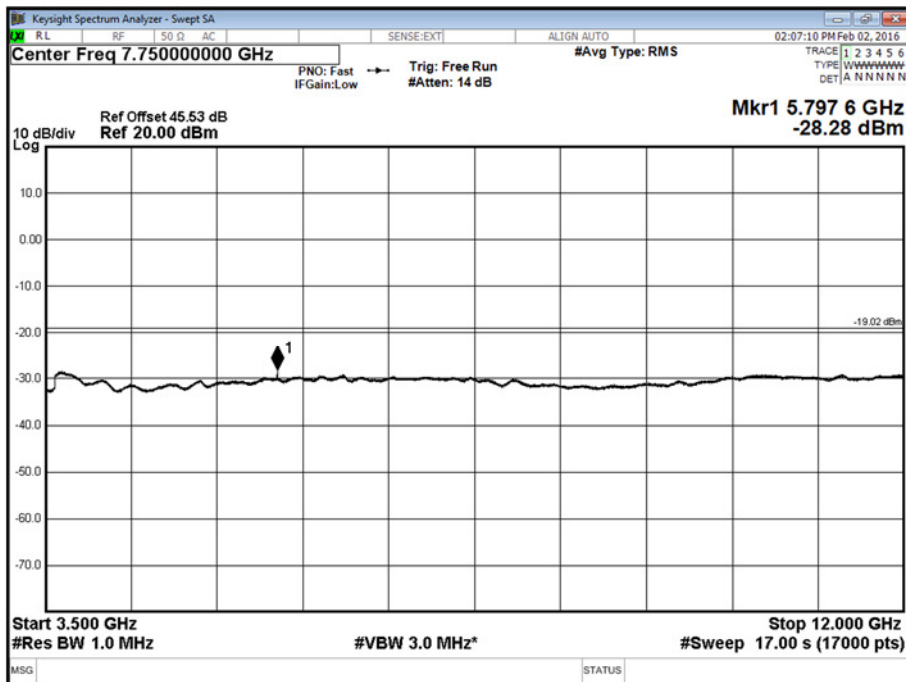
Configuration 1 Antenna A

Maximum Output Power 44.77 dBm

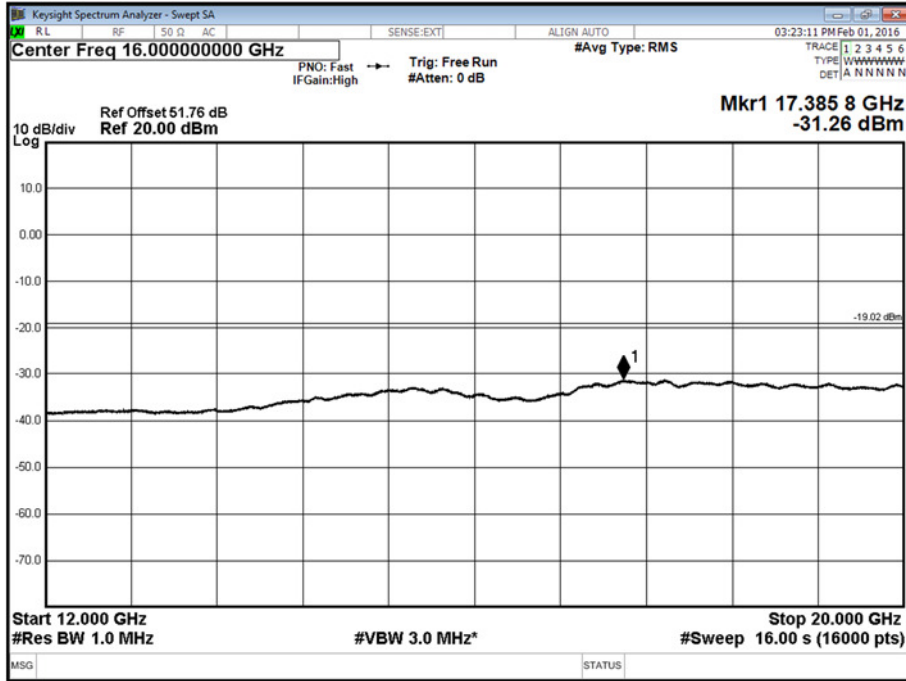
Channel Position B - Bandwidth 5.0 MHz - Antenna A



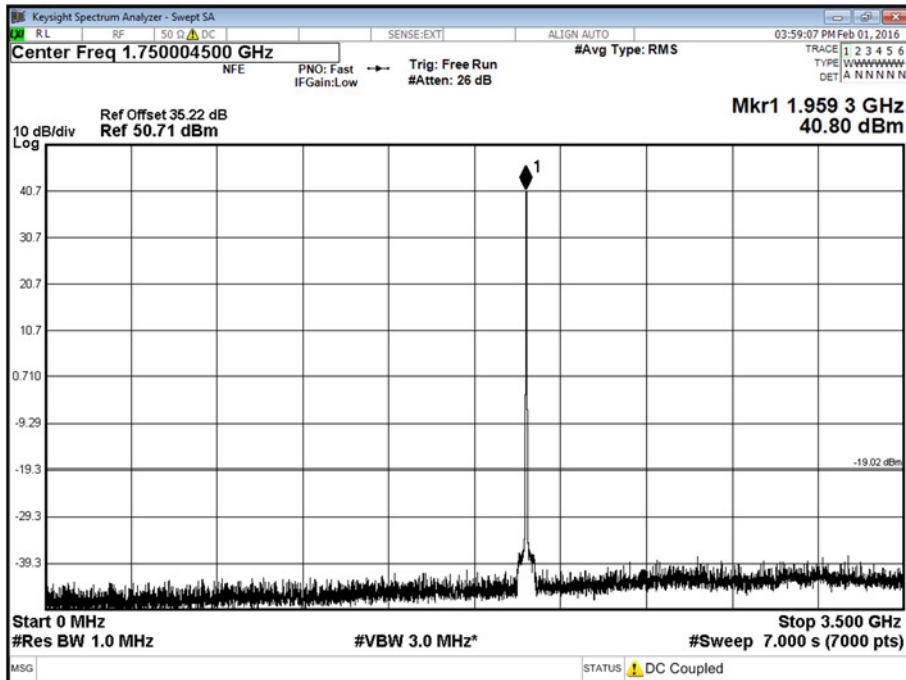
Channel Position B - Bandwidth 5.0 MHz - Antenna A



Channel Position B - Bandwidth 5.0 MHz - Antenna A

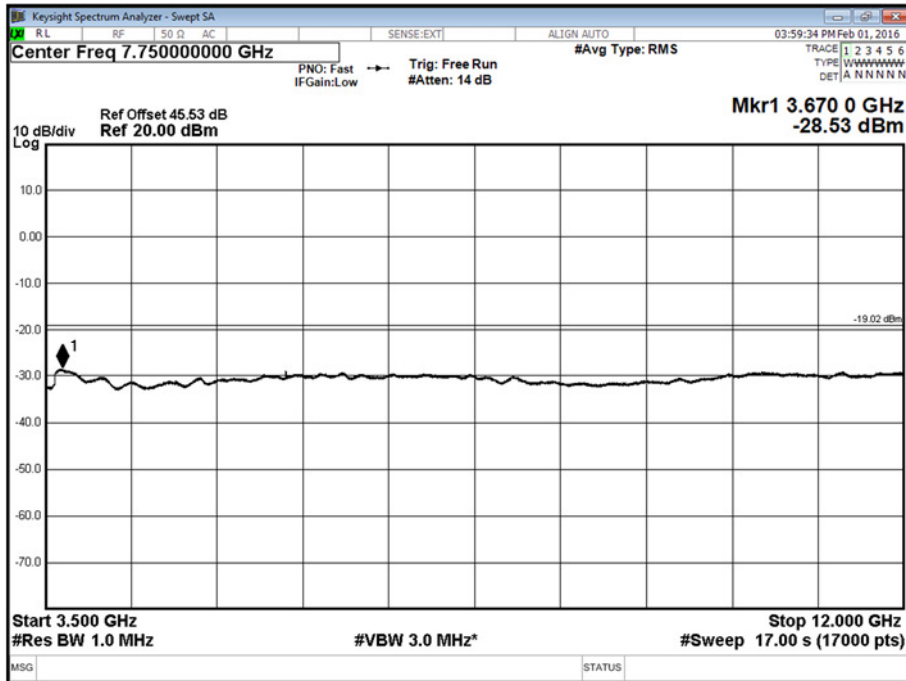


Channel Position M - Bandwidth 5.0 MHz - Antenna A

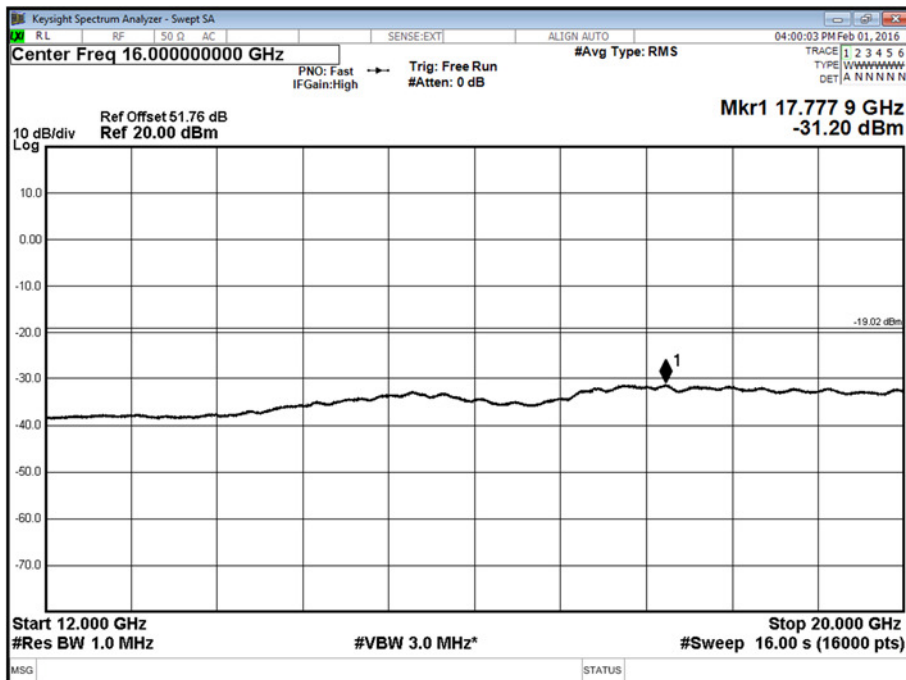




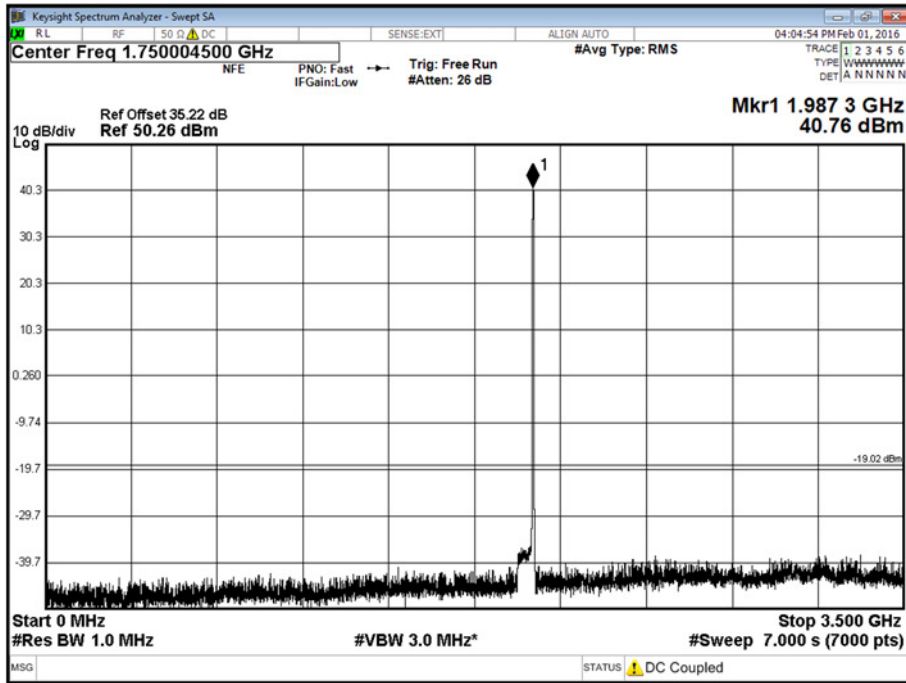
Channel Position M - Bandwidth 5.0 MHz - Antenna A



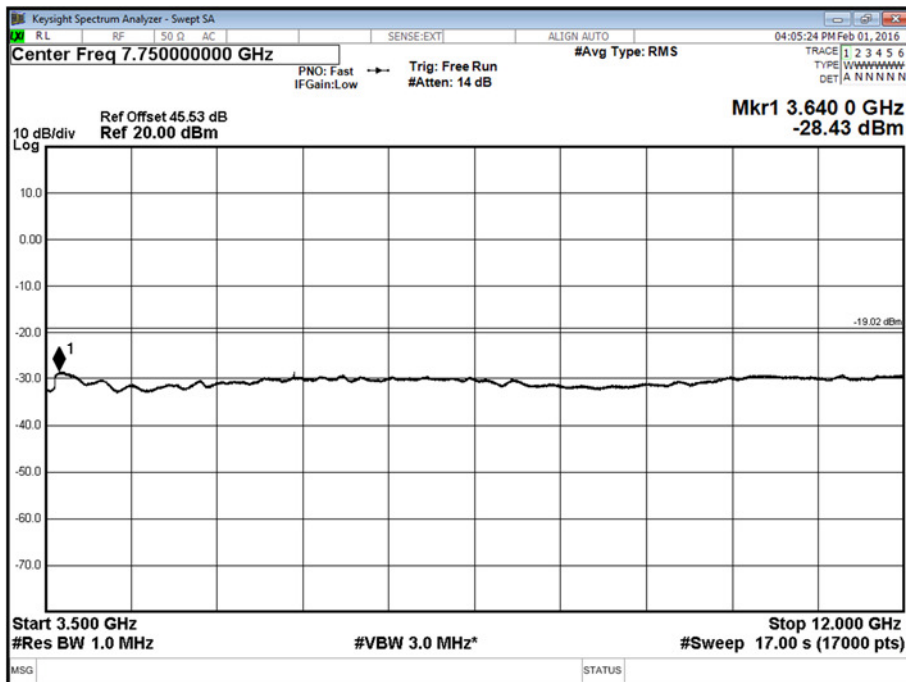
Channel Position M - Bandwidth 5.0 MHz - Antenna A



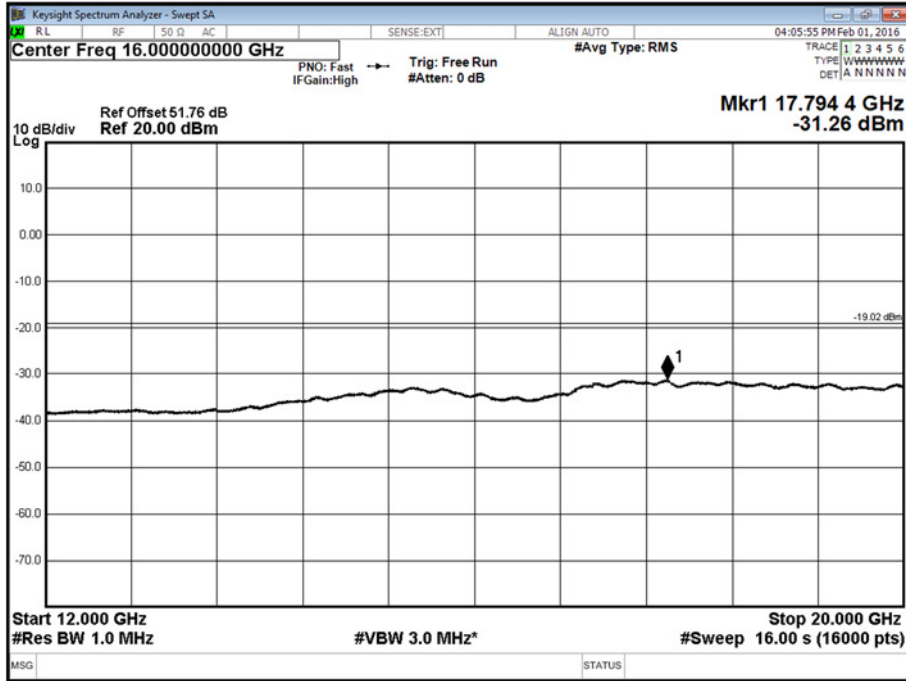
Channel Position T - Bandwidth 5.0 MHz - Antenna A



Channel Position T - Bandwidth 5.0 MHz - Antenna A



Channel Position T - Bandwidth 5.0 MHz - Antenna A



Configuration 1 Antenna B

Maximum Output Power 44.77 dBm

Channel Position B - Bandwidth 5.0 MHz - Antenna B

