

Configuration B1

L-MIMO-SC

Maximum Output Power 25.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5180.0MHz	Channel Position M 5220.0MHz	Channel Position T 5240.0MHz
A	QPSK / 20.0 MHz	12.338	12.763	12.782
B		12.539	12.358	12.763
Total		15.450	15.576	15.783

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5180.0MHz	Channel Position M 5220.0MHz	Channel Position T 5240.0MHz
A	16QAM / 20.0 MHz	13.261	13.269	13.408
B		13.036	13.057	13.432
Total		16.160	16.175	16.430

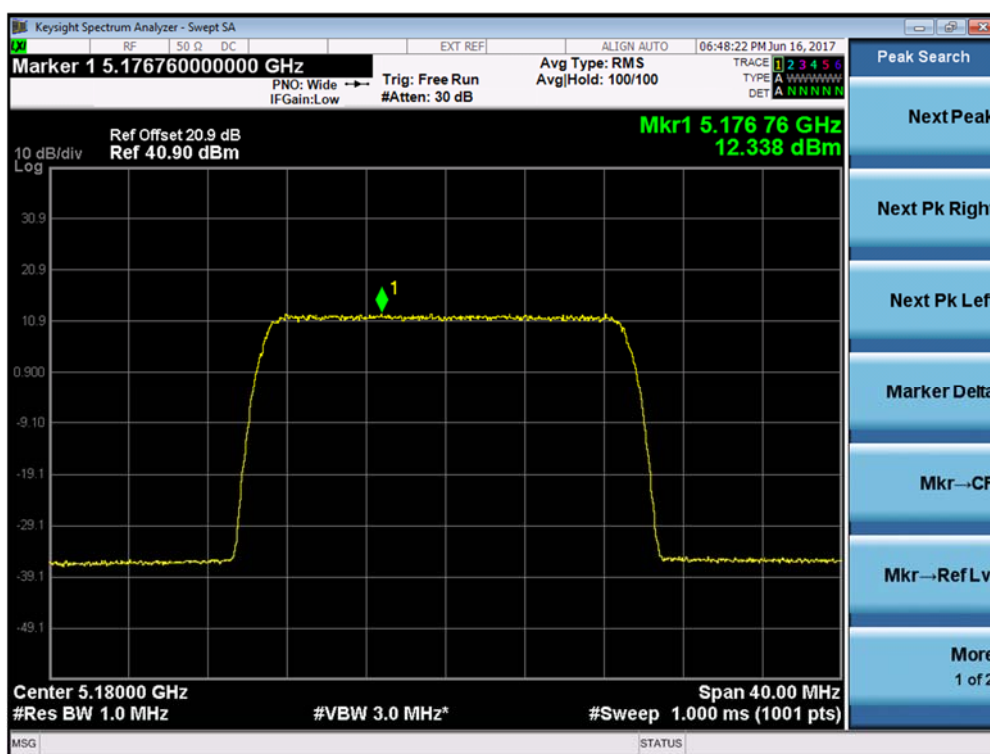
Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5180.0MHz	Channel Position M 5220.0MHz	Channel Position T 5240.0MHz
A	64QAM / 20.0 MHz	12.315	12.644	13.027
B		12.367	12.363	13.143
Total		15.351	15.516	16.096

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5180.0MHz	Channel Position M 5220.0MHz	Channel Position T 5240.0MHz
A	256QAM / 20.0 MHz	12.438	12.642	12.851
B		12.697	12.722	12.823
Total		15.580	15.692	15.847

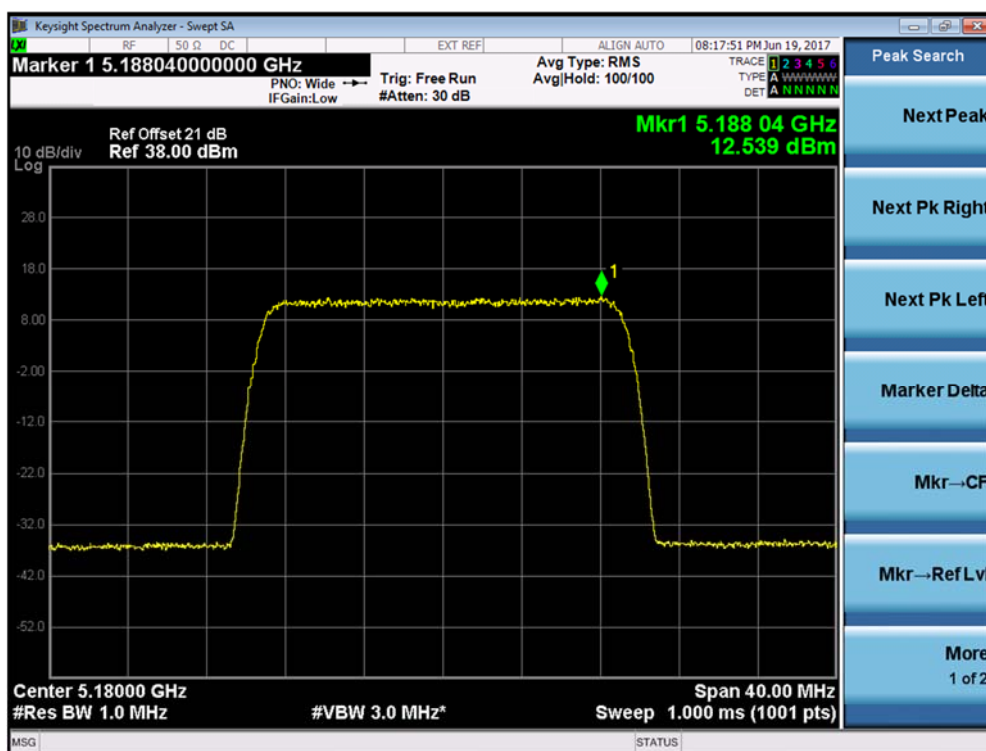


Product Service

Channel Position B - QPSK - Antenna A/ Bandwidth 20.0 MHz



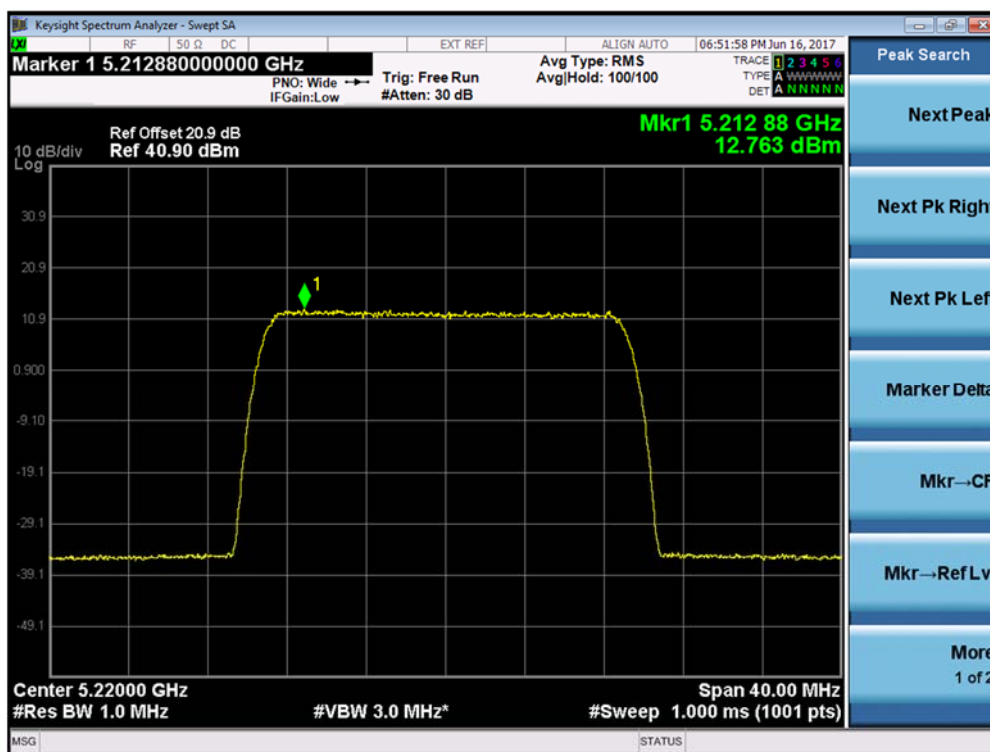
Channel Position B - QPSK - Antenna B/ Bandwidth 20.0 MHz



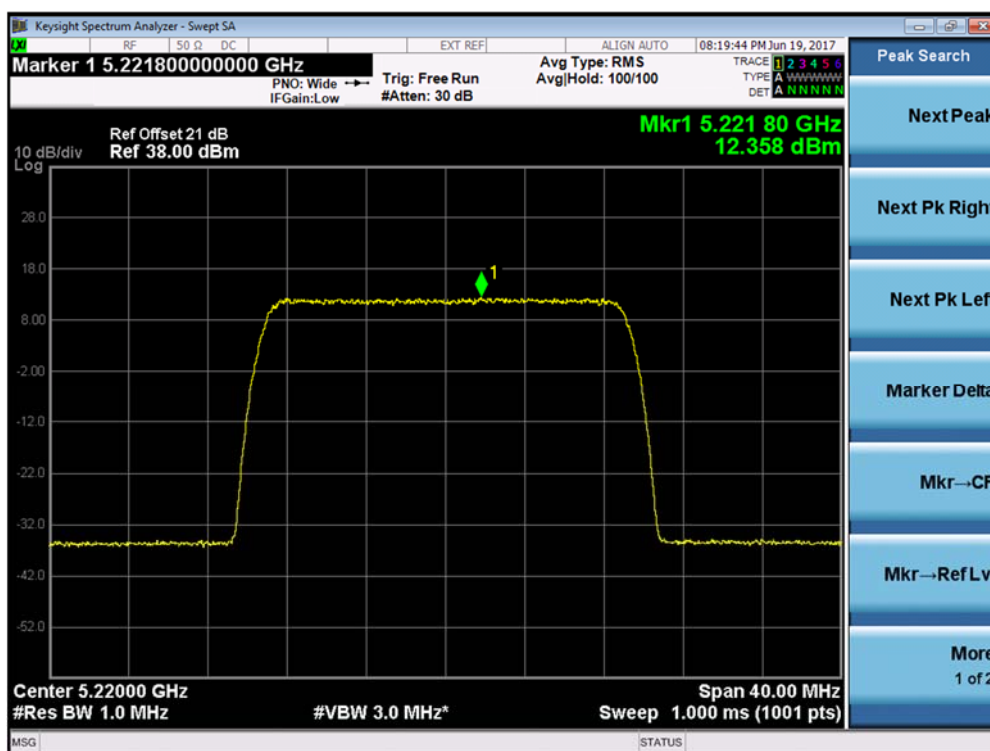


Product Service

Channel Position M - QPSK - Antenna A/ Bandwidth 20.0 MHz



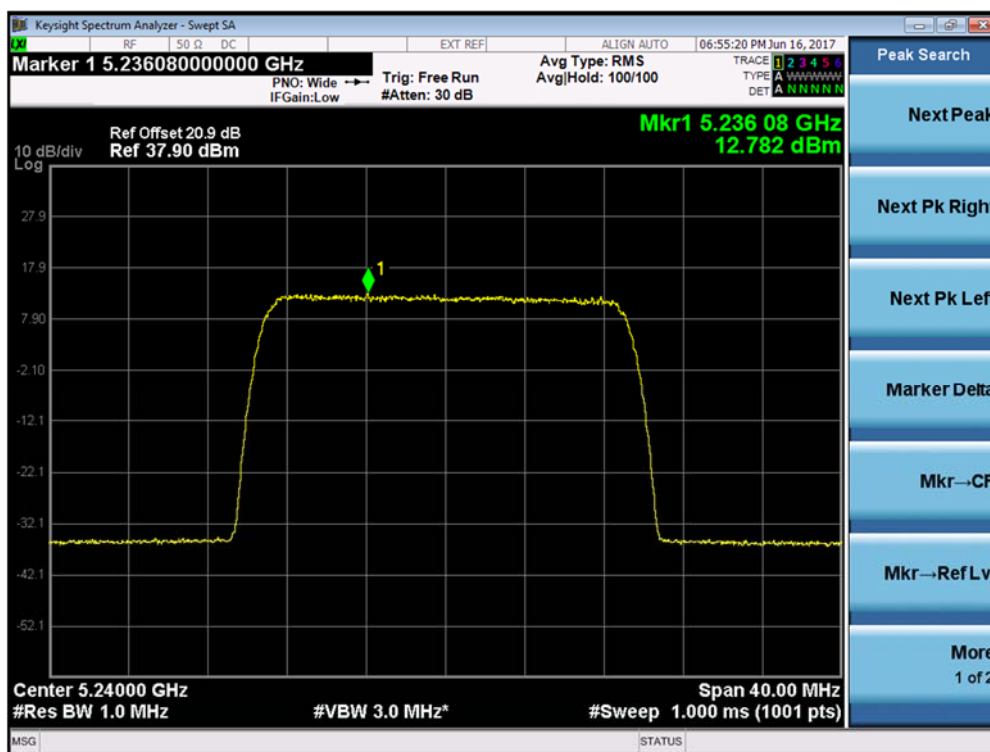
Channel Position M - QPSK - Antenna B/ Bandwidth 20.0 MHz



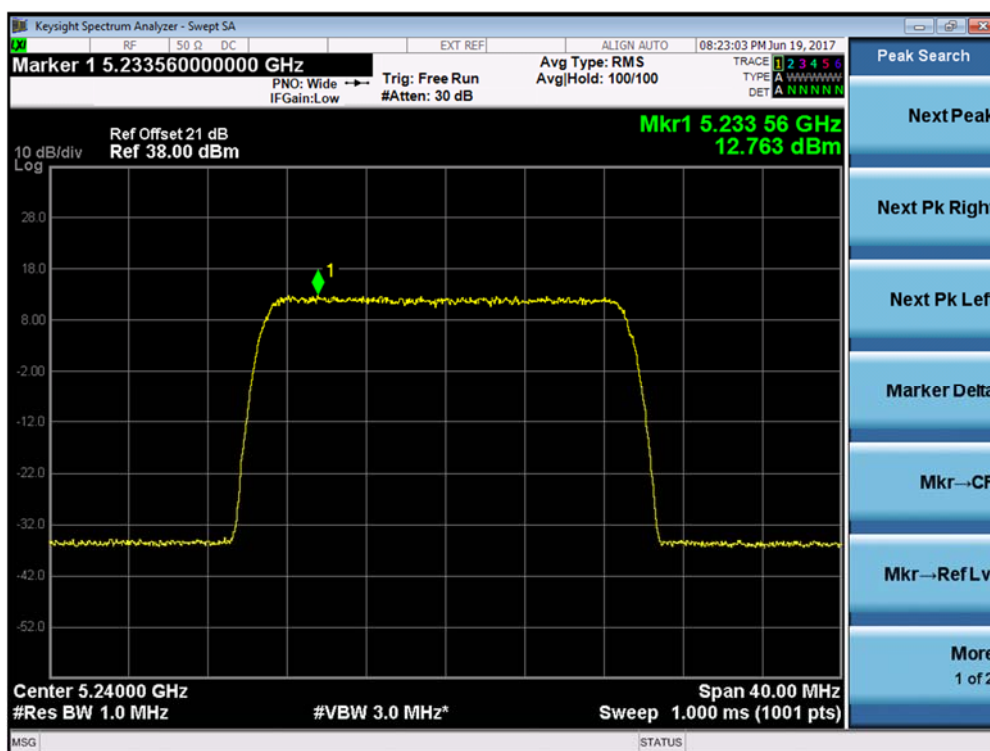


Product Service

Channel Position T - QPSK - Antenna A/ Bandwidth 20.0 MHz



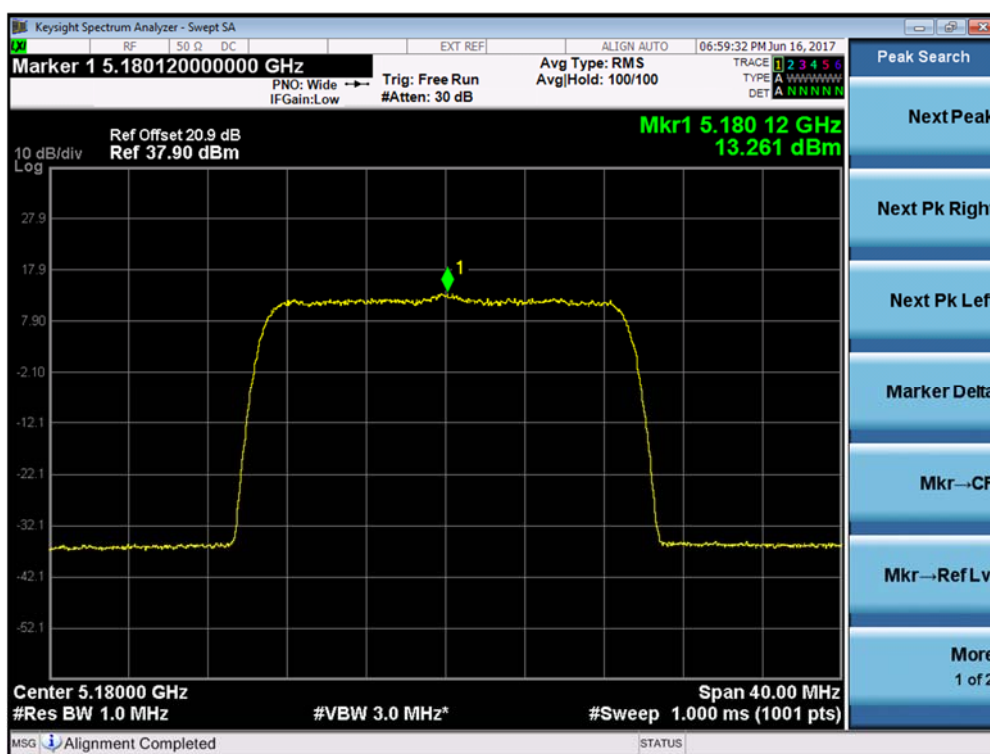
Channel Position T - QPSK - Antenna B/ Bandwidth 20.0 MHz



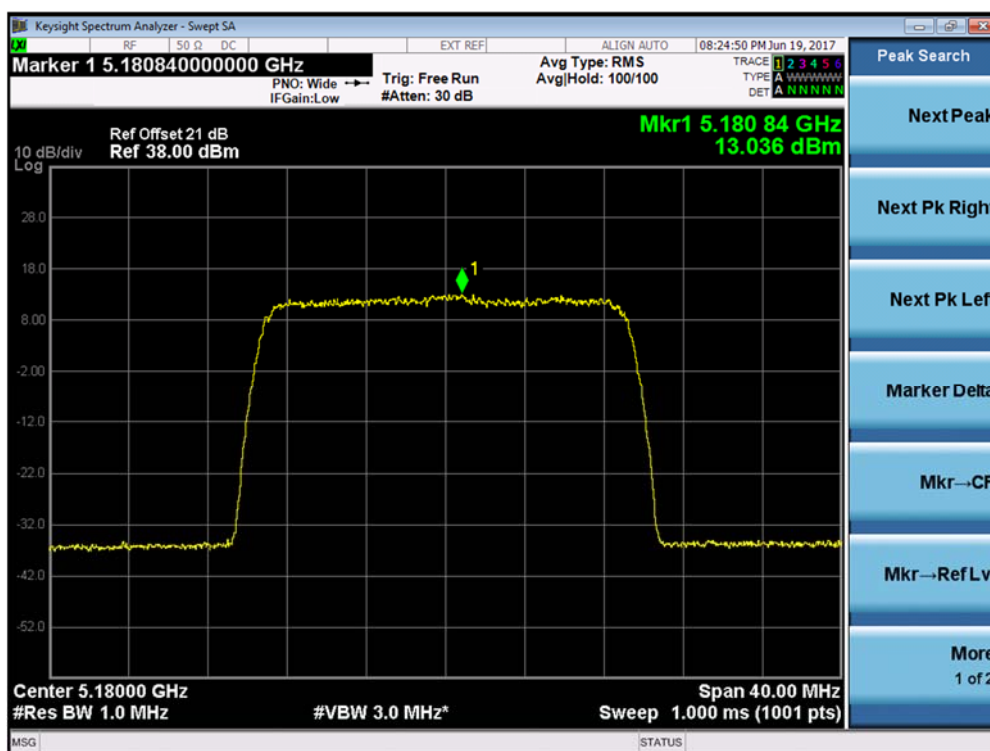


Product Service

Channel Position B - 16QAM - Antenna A/ Bandwidth 20.0 MHz



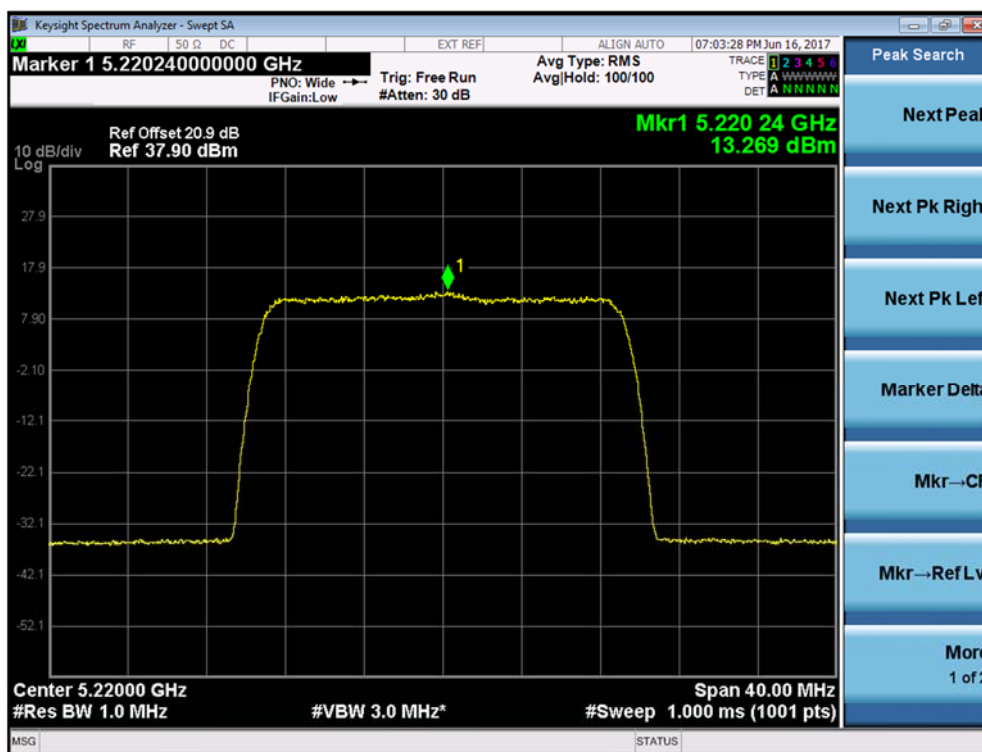
Channel Position B - 16QAM - Antenna B/ Bandwidth 20.0 MHz



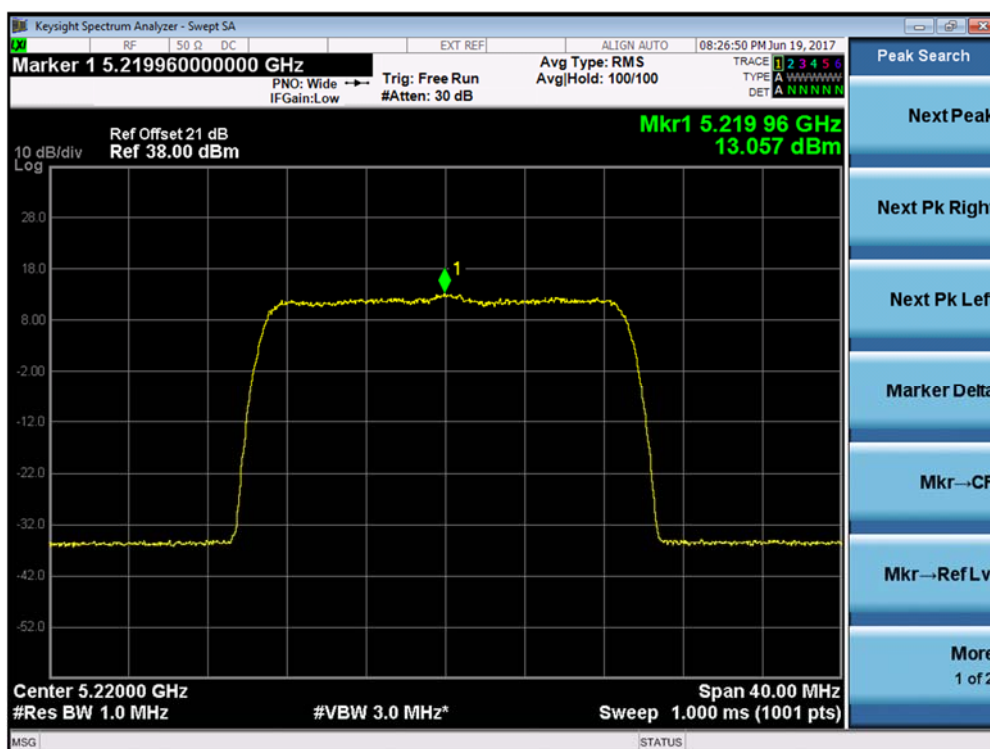


Product Service

Channel Position M - 16QAM - Antenna A/ Bandwidth 20.0 MHz



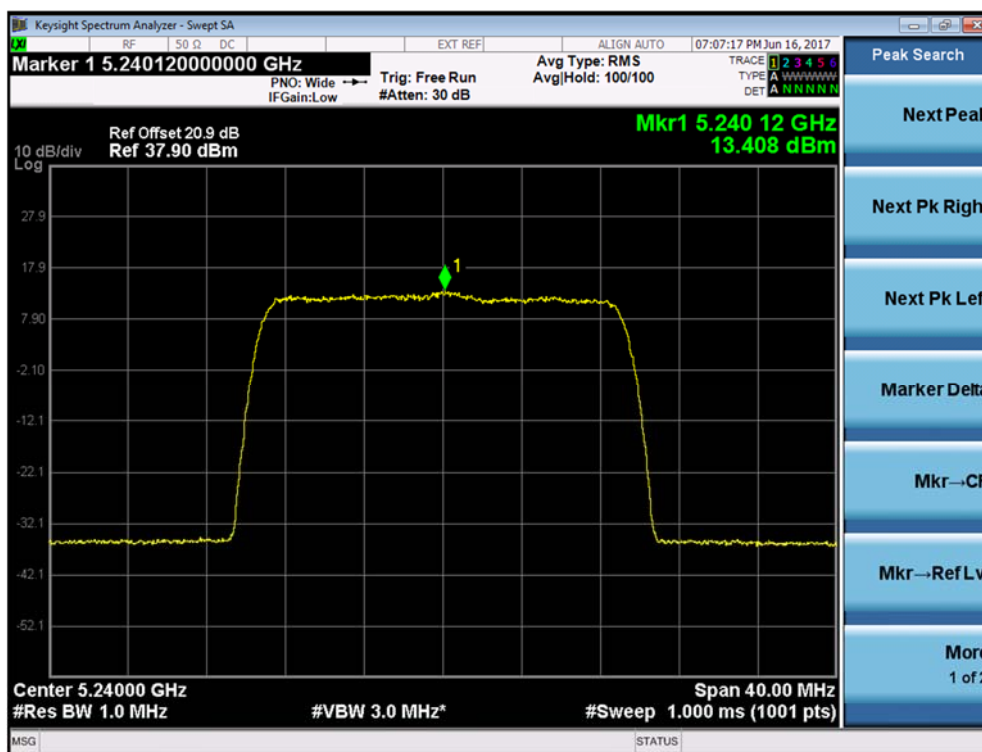
Channel Position M - 16QAM - Antenna B/ Bandwidth 20.0 MHz



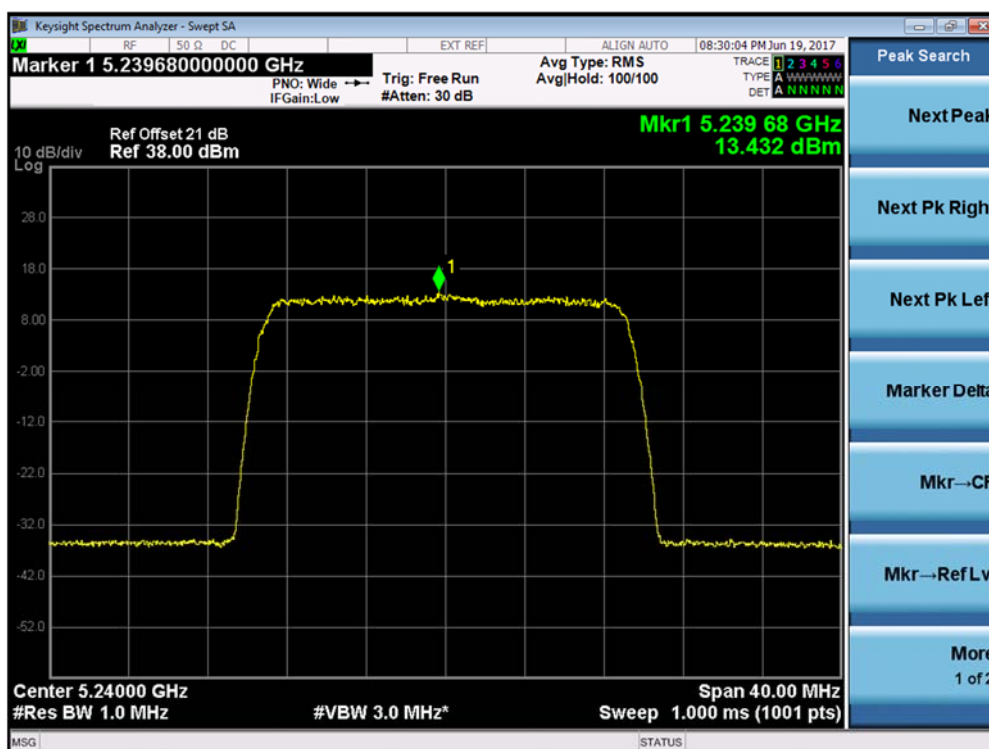


Product Service

Channel Position T - 16QAM - Antenna A/ Bandwidth 20.0 MHz



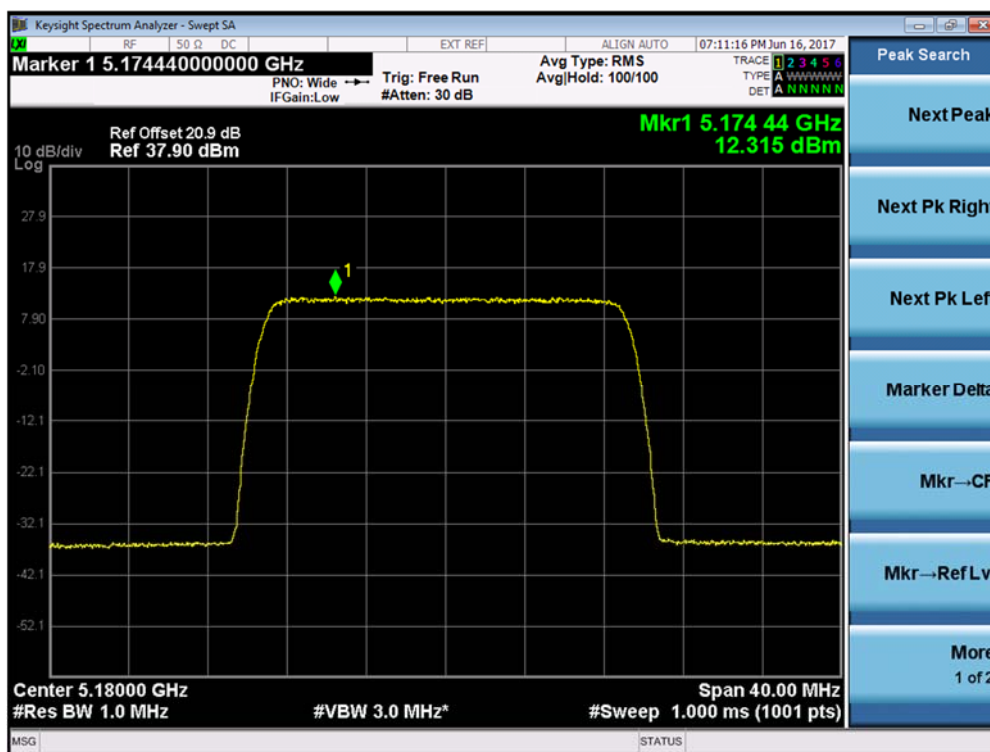
Channel Position T - 16QAM - Antenna B/ Bandwidth 20.0 MHz



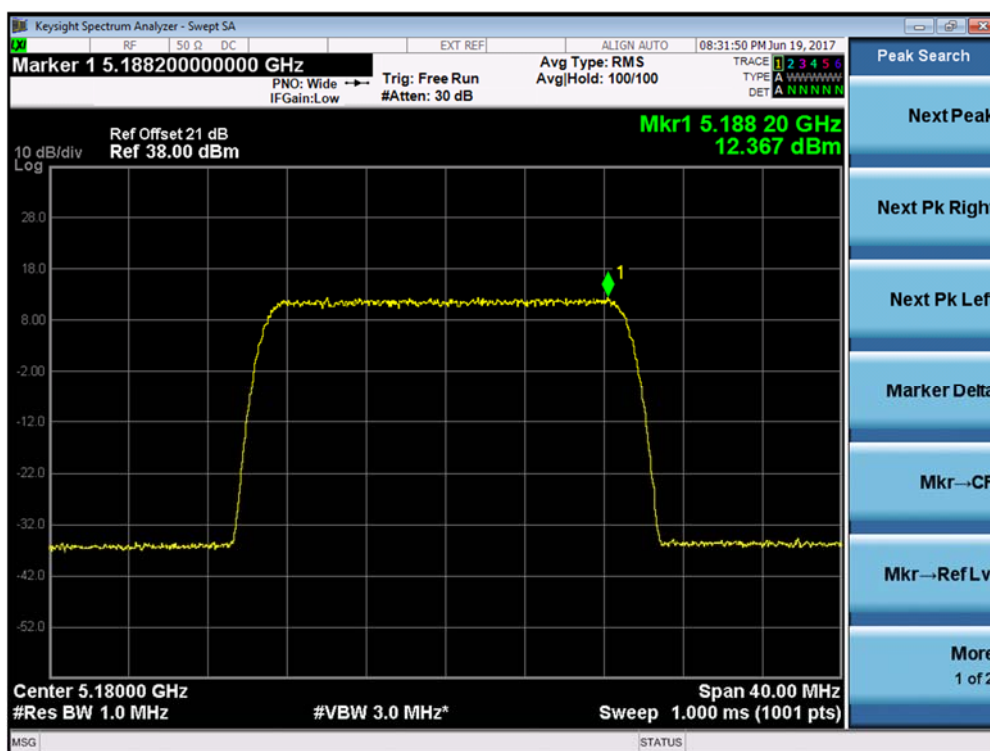


Product Service

Channel Position B - 64QAM - Antenna A/ Bandwidth 20.0 MHz



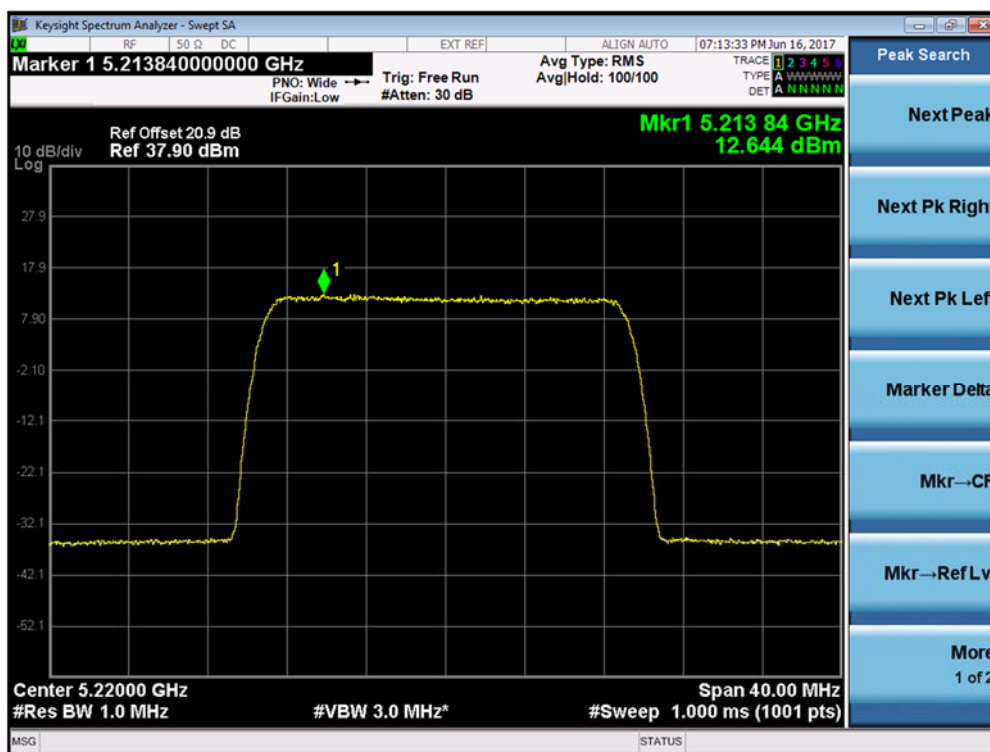
Channel Position B - 64QAM - Antenna B/ Bandwidth 20.0 MHz



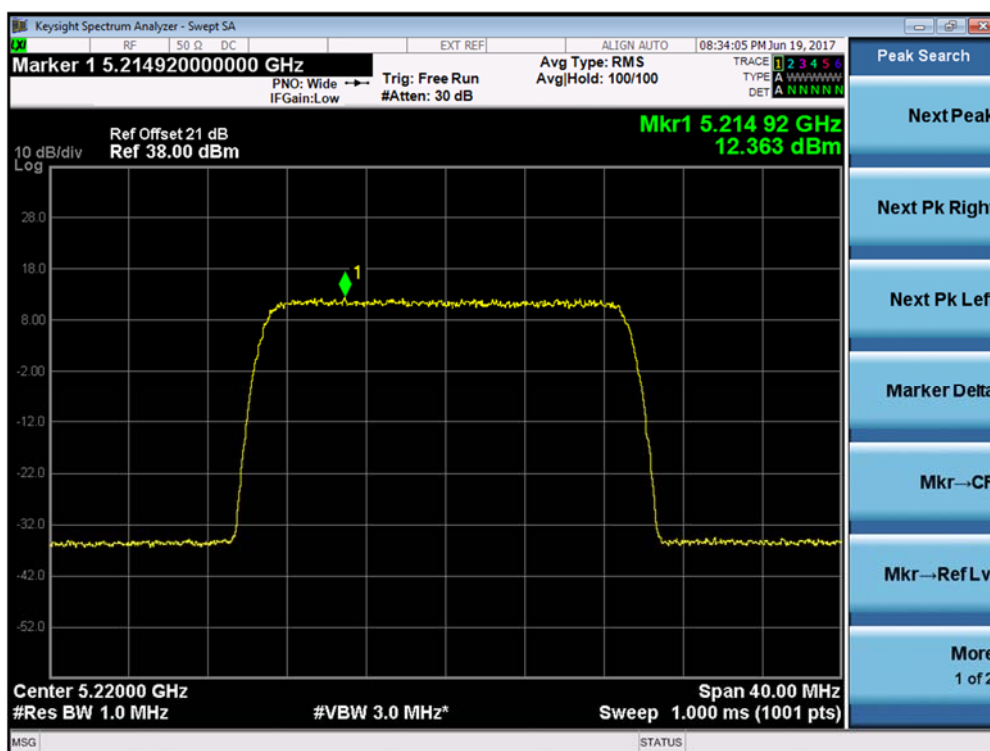


Product Service

Channel Position M - 64QAM - Antenna A/ Bandwidth 20.0 MHz



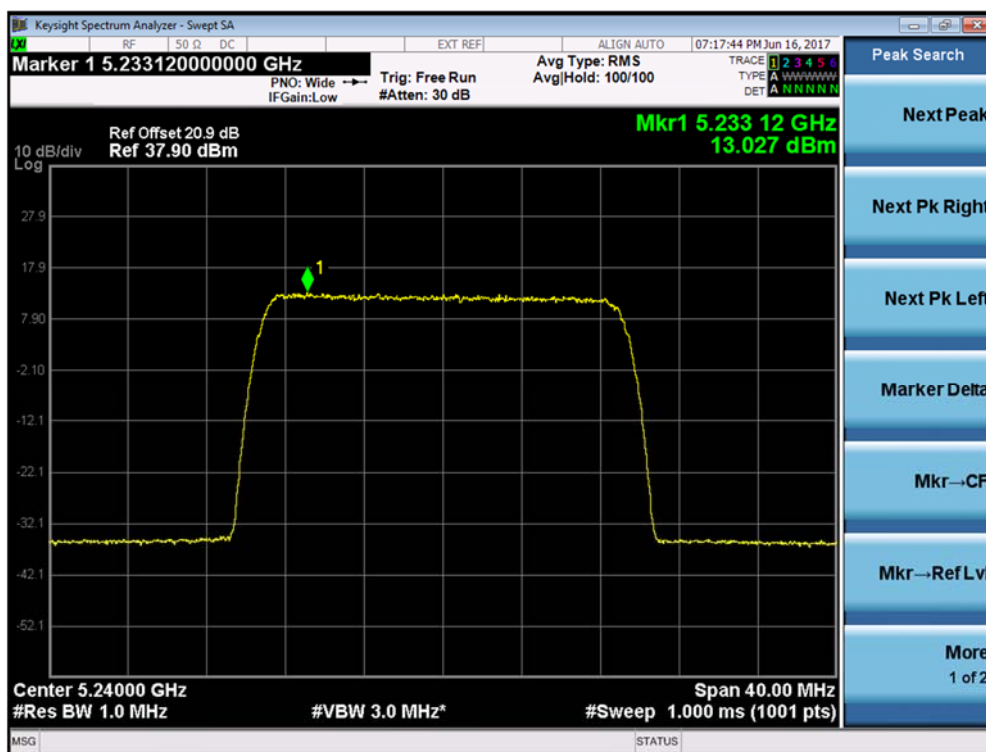
Channel Position M - 64QAM - Antenna B/ Bandwidth 20.0 MHz



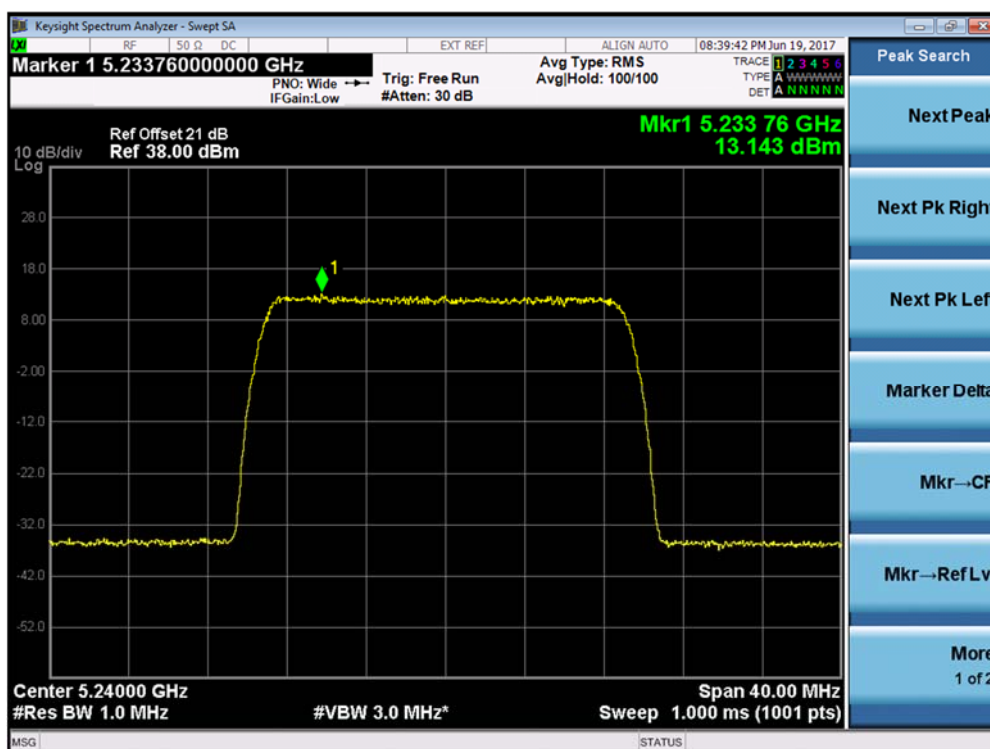


Product Service

Channel Position T - 64QAM - Antenna A/ Bandwidth 20.0 MHz



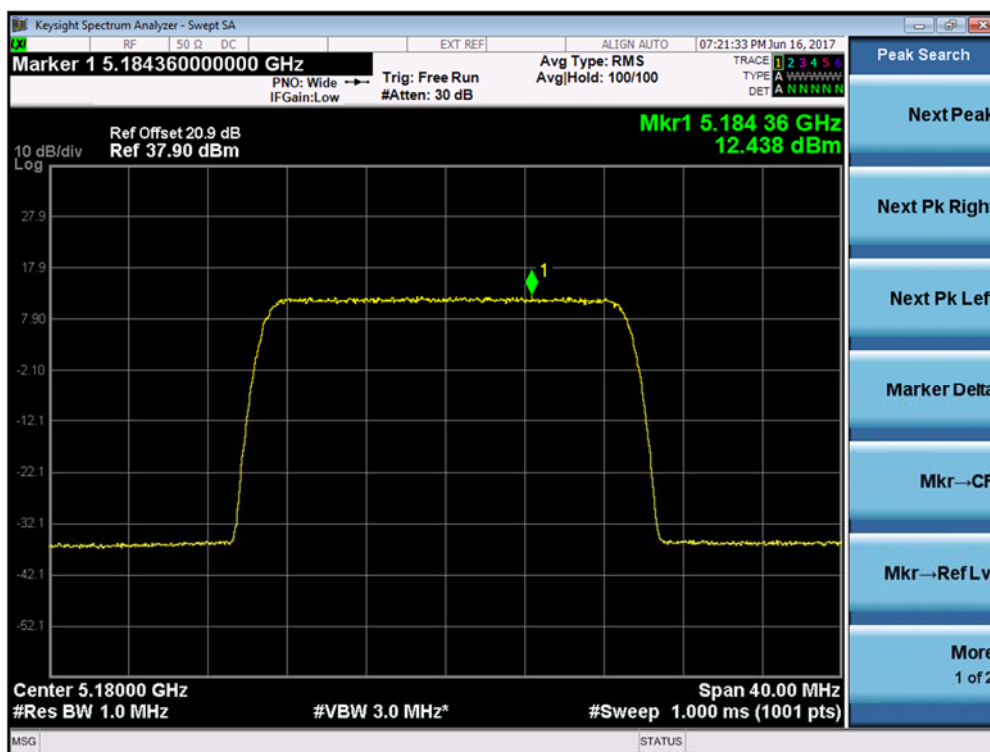
Channel Position T - 64QAM - Antenna B/ Bandwidth 20.0 MHz



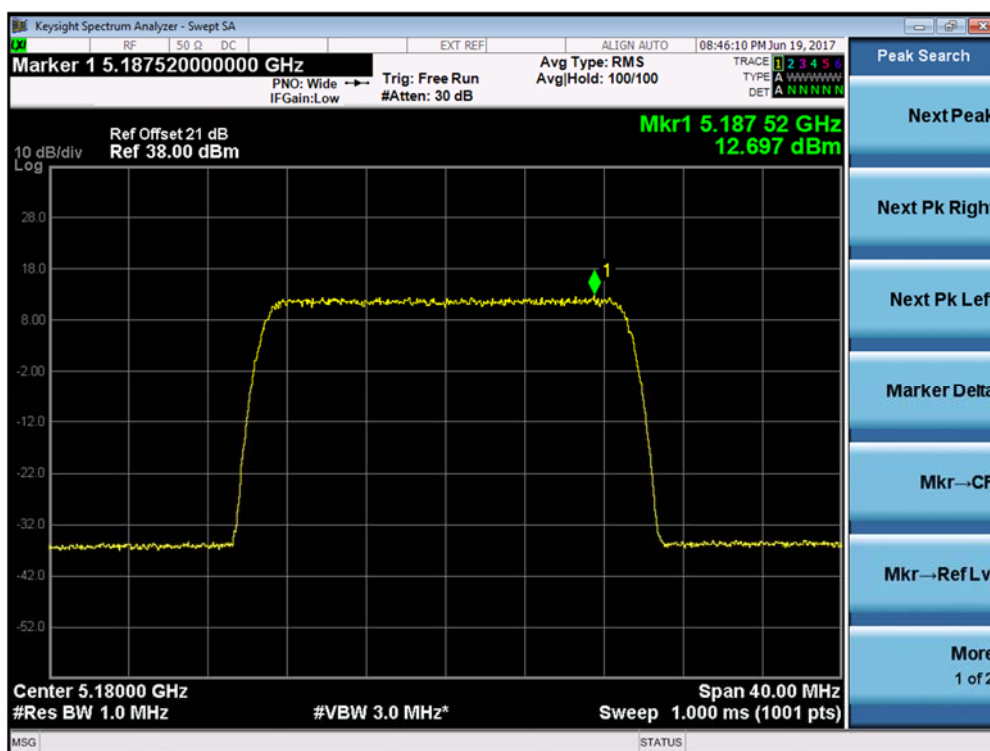


Product Service

Channel Position B - 256QAM - Antenna A/ Bandwidth 20.0 MHz



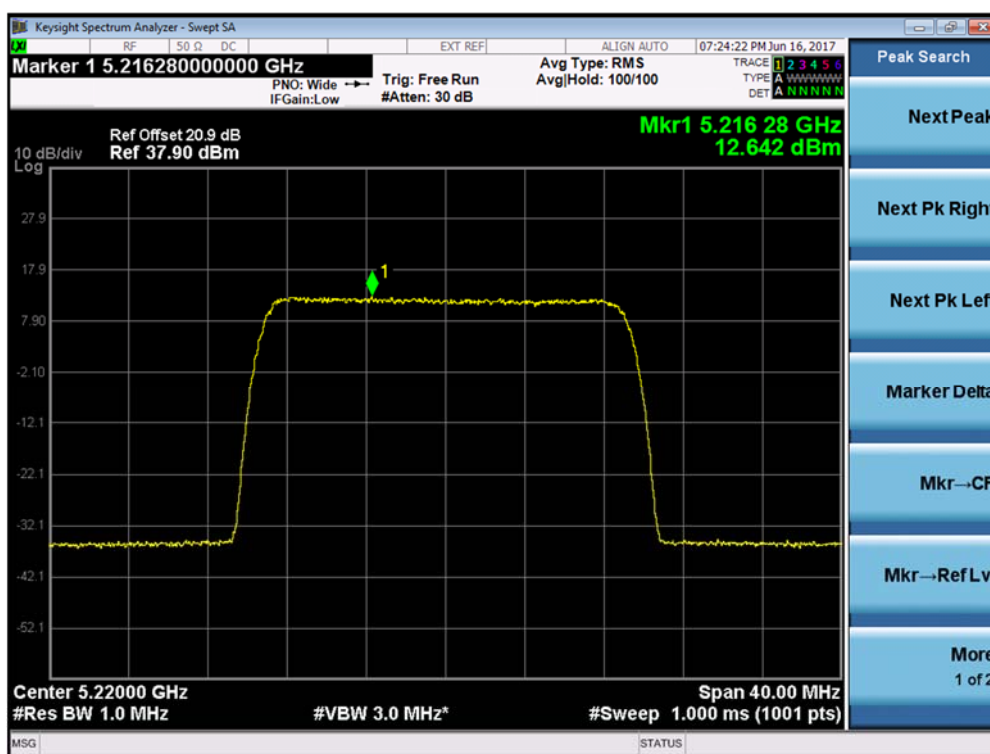
Channel Position B - 256QAM - Antenna B/ Bandwidth 20.0 MHz



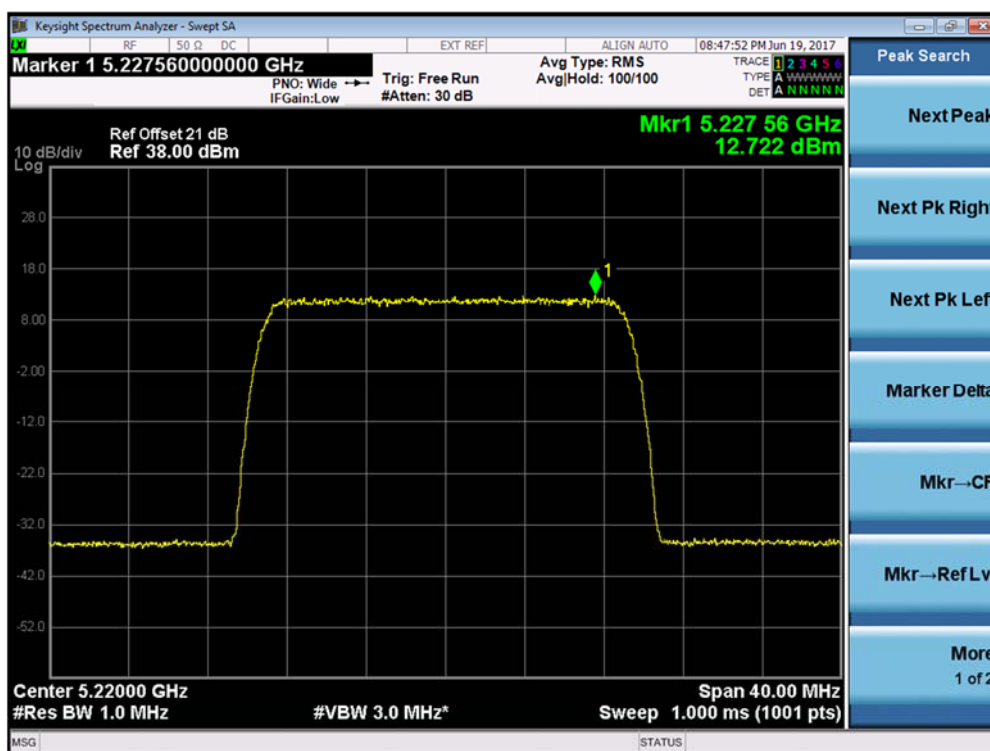


Product Service

Channel Position M - 256QAM - Antenna A/ Bandwidth 20.0 MHz



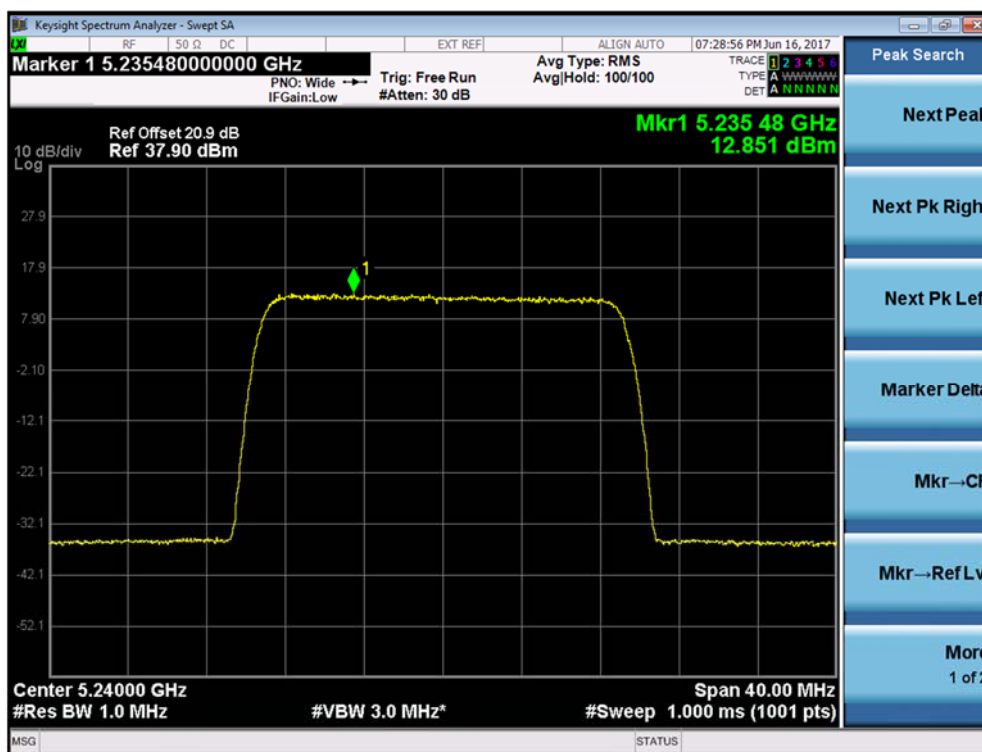
Channel Position M - 256QAM - Antenna B/ Bandwidth 20.0 MHz



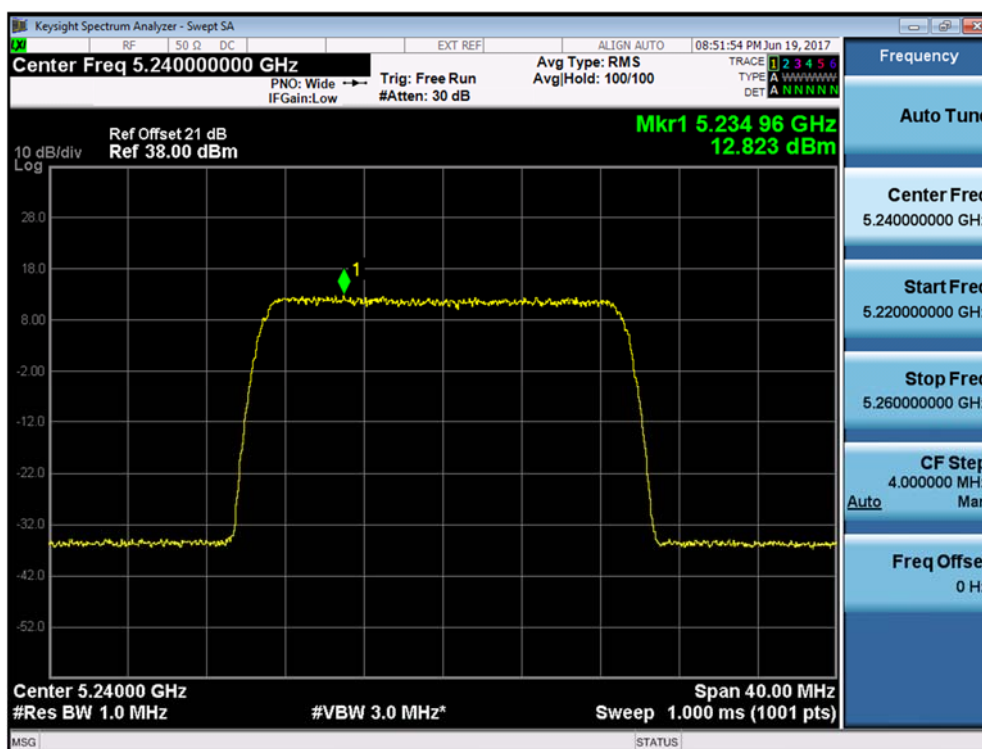


Product Service

Channel Position T - 256QAM - Antenna A/ Bandwidth 20.0 MHz



Channel Position T - 256QAM - Antenna B/ Bandwidth 20.0 MHz



Configuration B2

L-MIMO-SC

Maximum Output Power 25.0dBm per port

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5745.0MHz	Channel Position M 5785.0MHz	Channel Position T 5825.0MHz
A	QPSK / 20.0 MHz	9.025	8.873	8.928
B		9.489	9.295	9.309
Total		12.273	12.099	12.133

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5745.0MHz	Channel Position M 5785.0MHz	Channel Position T 5825.0MHz
A	16QAM / 20.0 MHz	9.800	9.994	9.579
B		9.981	9.447	9.457
Total		12.902	12.739	12.529

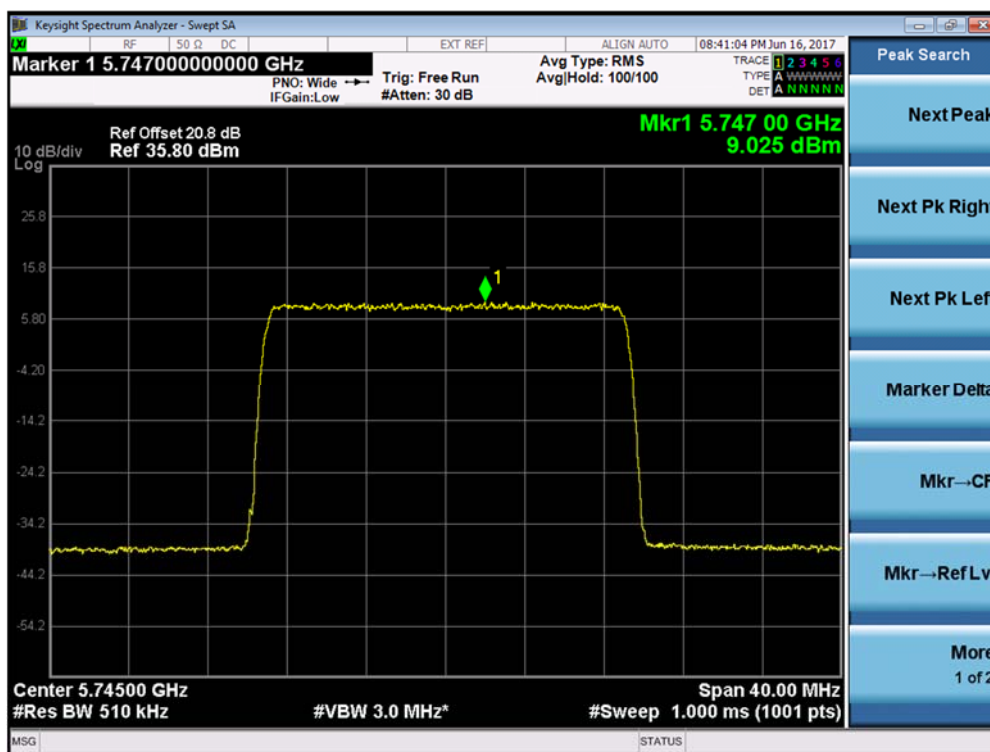
Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5745.0MHz	Channel Position M 5785.0MHz	Channel Position T 5825.0MHz
A	64QAM / 20.0 MHz	9.179	8.691	8.795
B		9.529	9.282	9.330
Total		12.368	12.007	12.081

Antenna	Modulation / Carrier Bandwidth (MHz)	Power Spectral Density (dBm)		
		Channel Position B 5745.0MHz	Channel Position M 5785.0MHz	Channel Position T 5825.0MHz
A	256QAM / 20.0 MHz	8.855	9.258	8.953
B		9.453	9.036	9.052
Total		12.175	12.159	12.013

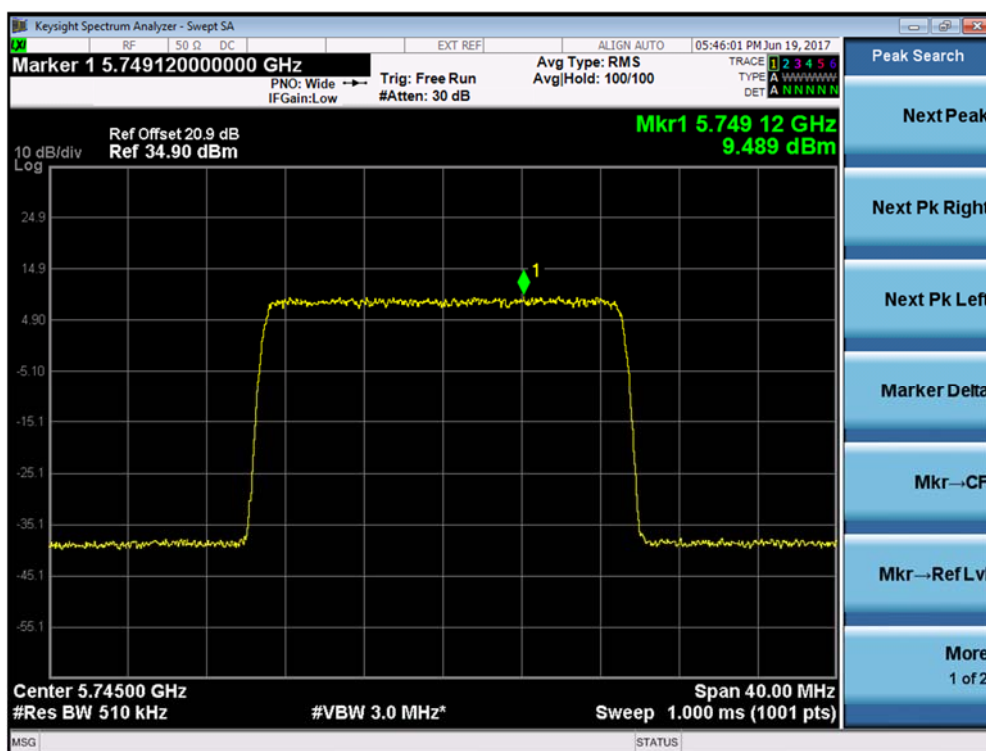


Product Service

Channel Position B - QPSK - Antenna A/ Bandwidth 20.0 MHz



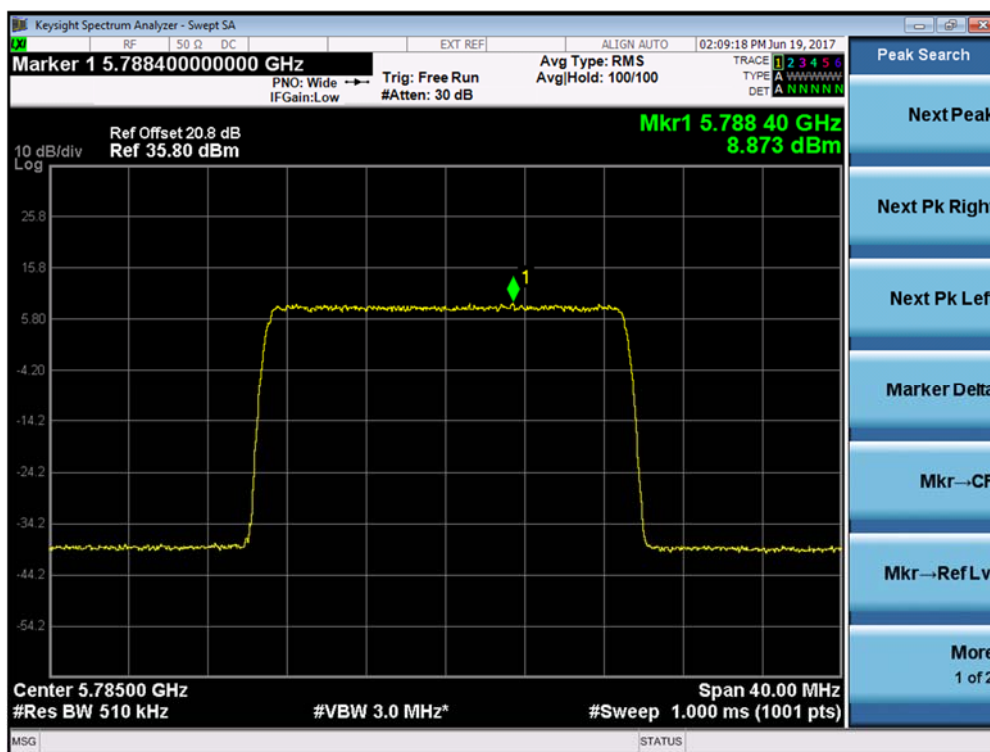
Channel Position B - QPSK - Antenna B/ Bandwidth 20.0 MHz



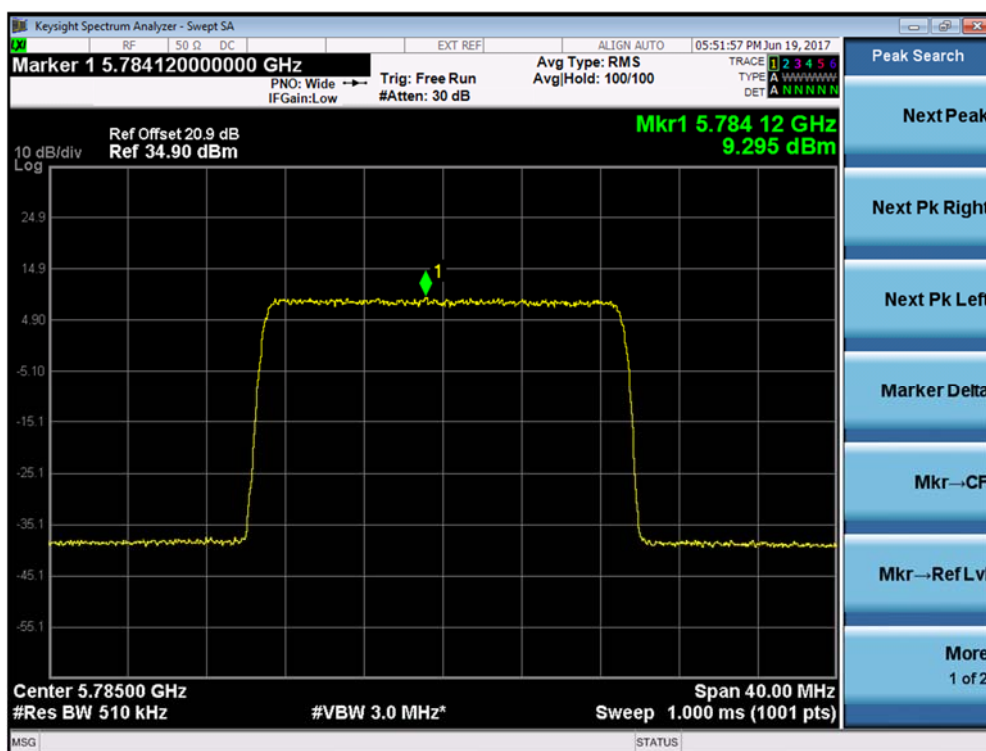


Product Service

Channel Position M - QPSK - Antenna A/ Bandwidth 20.0 MHz



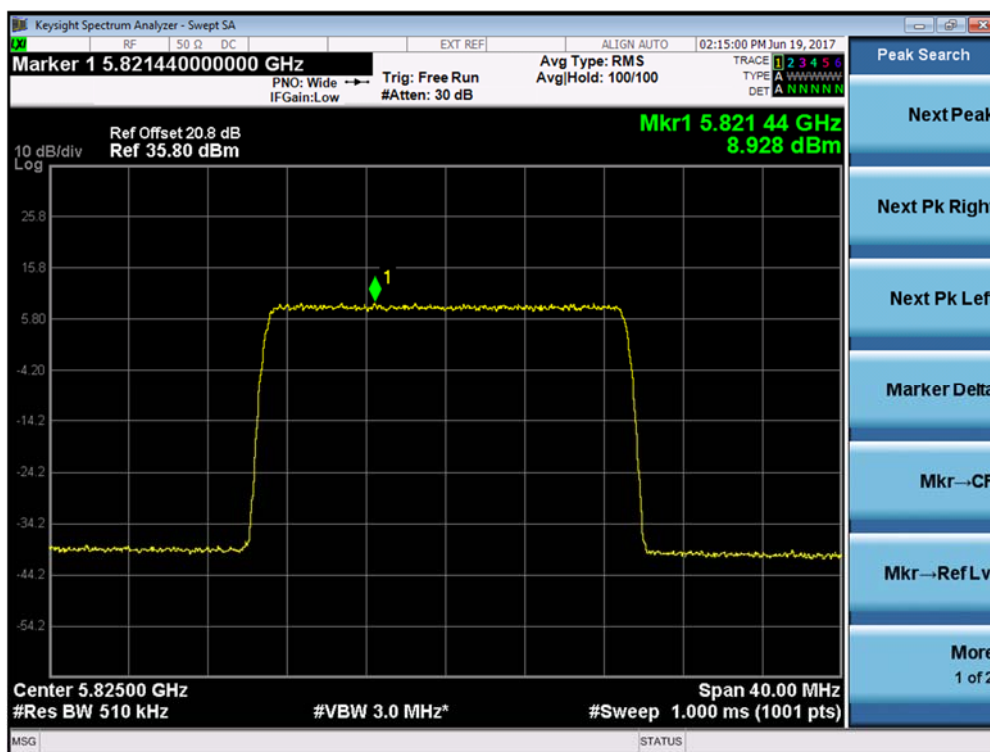
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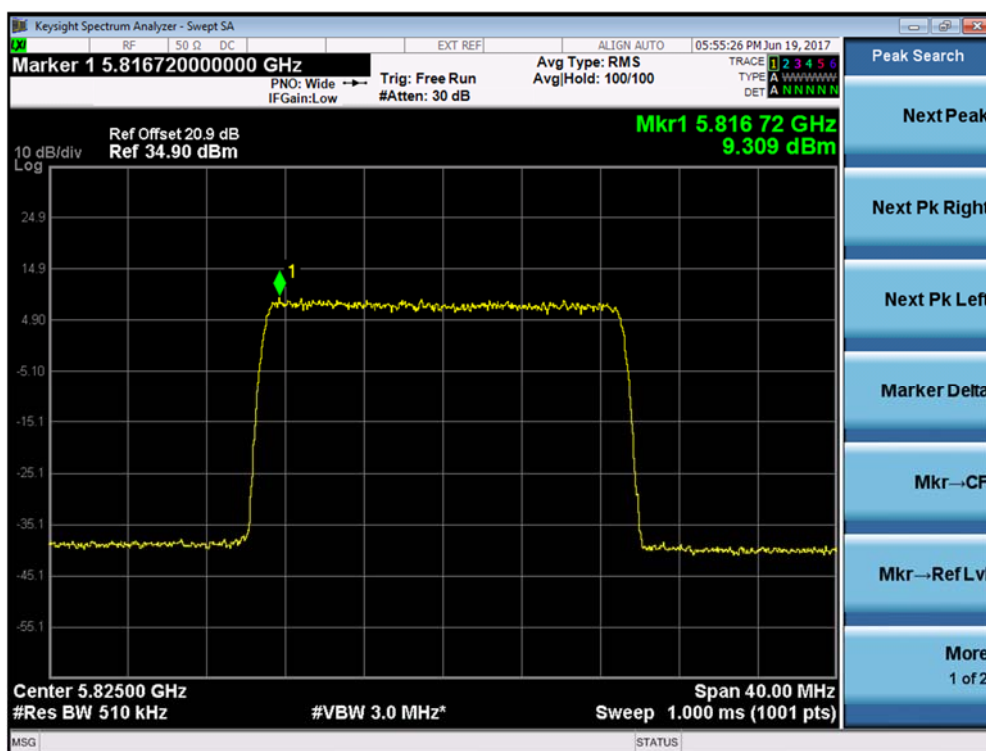


Product Service

Channel Position T - QPSK - Antenna A/ Bandwidth 20.0 MHz



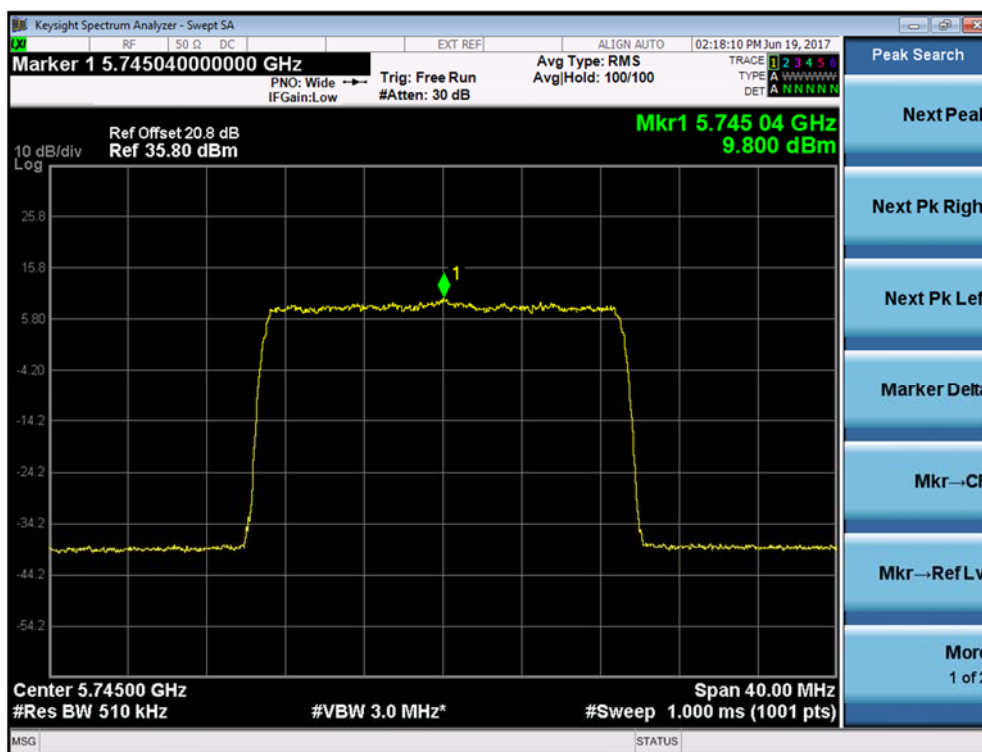
Channel Position T - QPSK - Antenna B/ Bandwidth 20.0 MHz



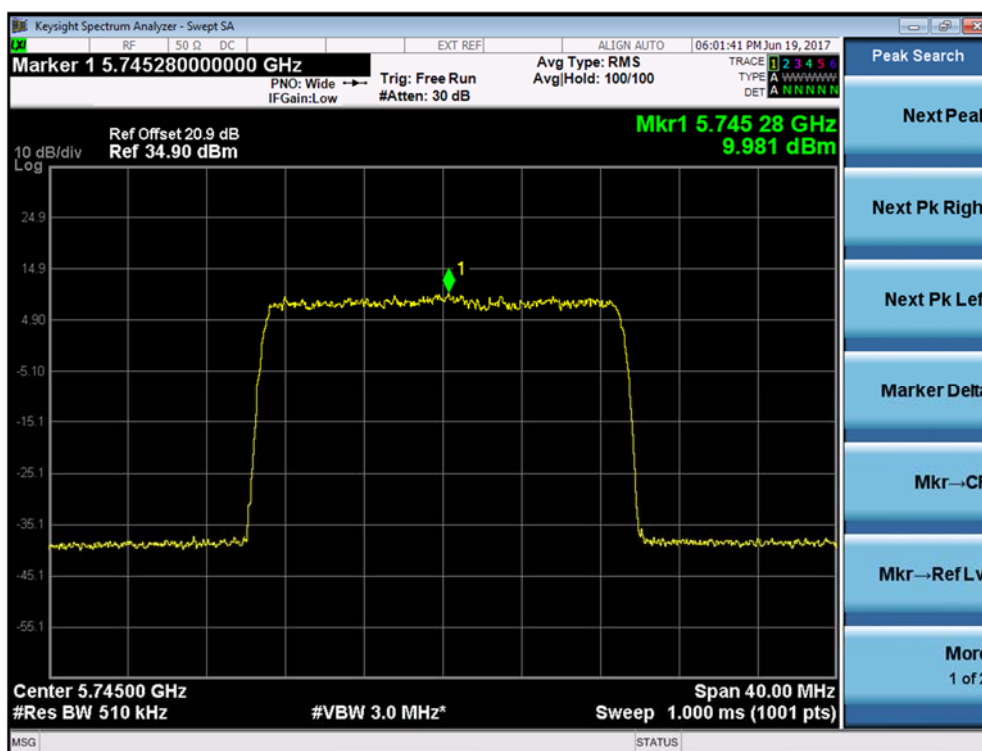


Product Service

Channel Position B - 16QAM - Antenna A/ Bandwidth 20.0 MHz



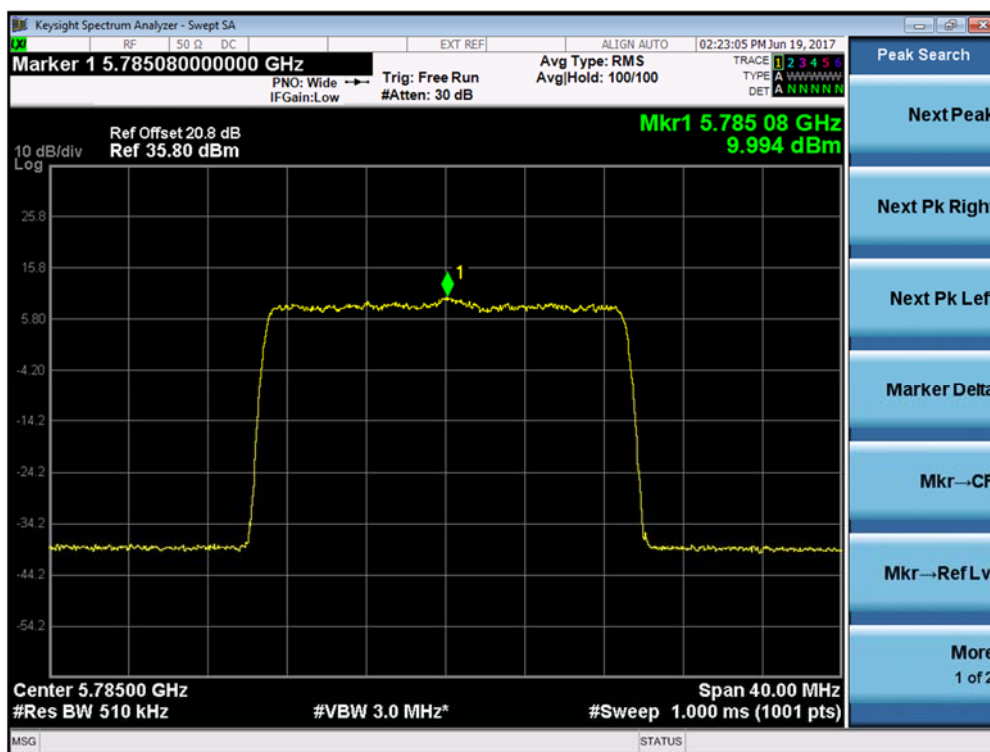
Channel Position B - 16QAM - Antenna B/ Bandwidth 20.0 MHz



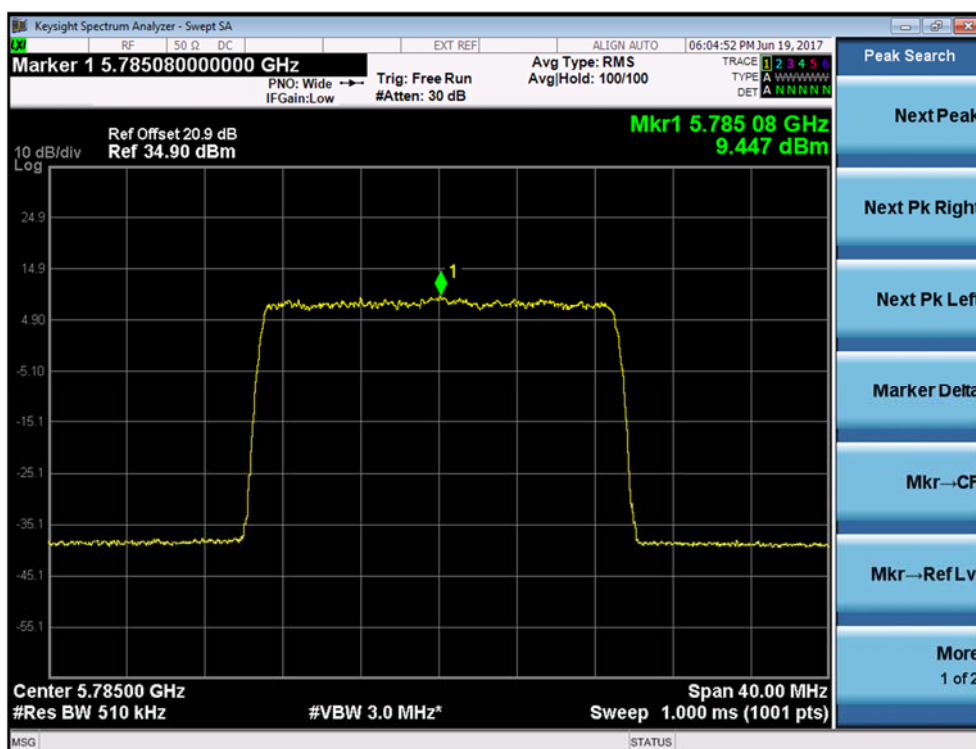


Product Service

Channel Position M - 16QAM - Antenna A/ Bandwidth 20.0 MHz



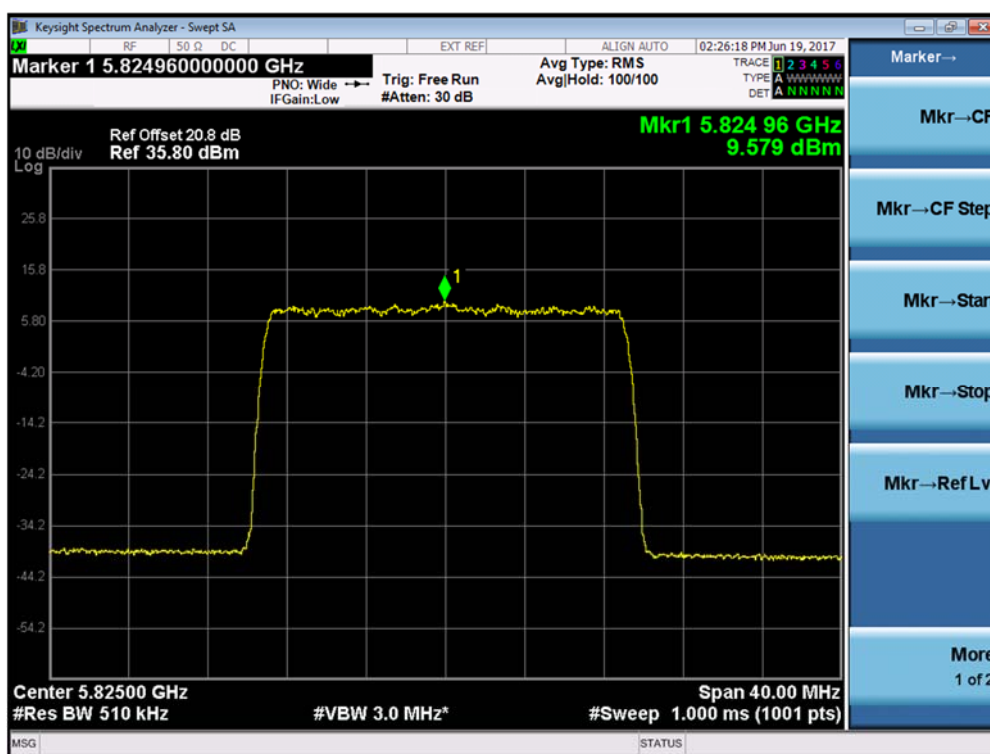
Channel Position M - 16QAM - Antenna B/ Bandwidth 20.0 MHz



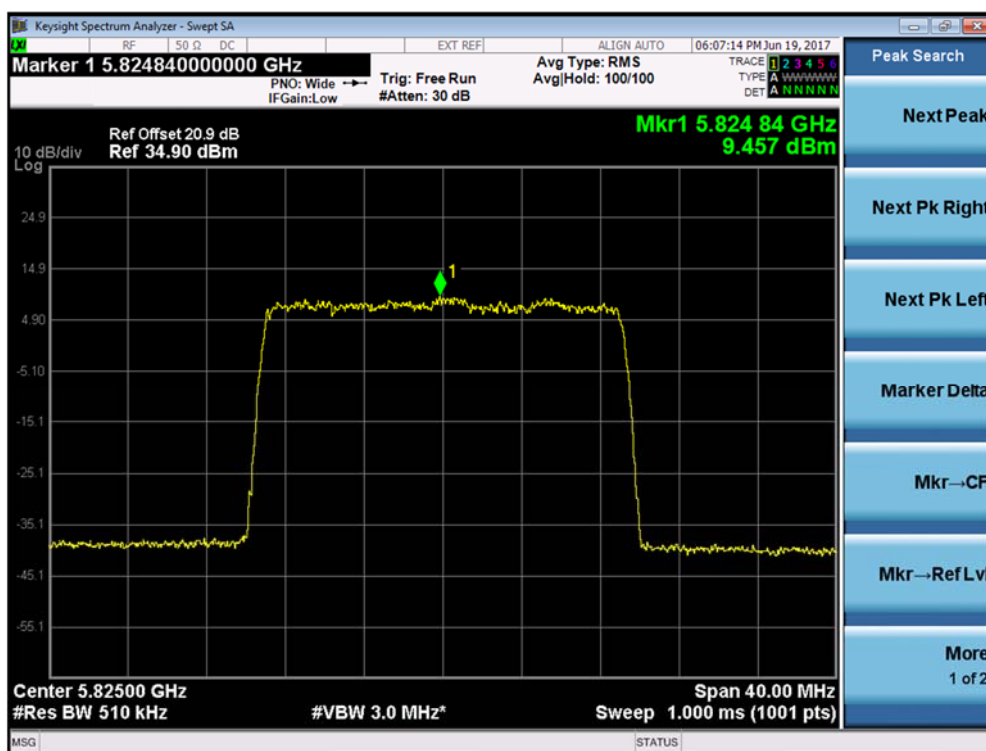


Product Service

Channel Position T - 16QAM - Antenna A/ Bandwidth 20.0 MHz



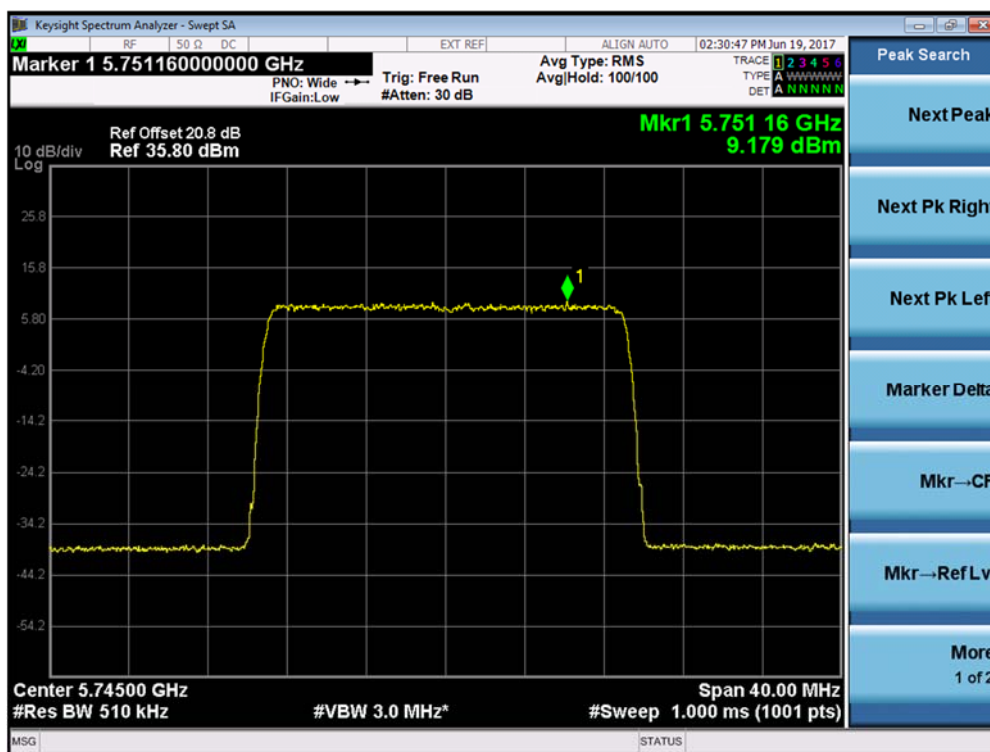
Channel Position T - 16QAM - Antenna B/ Bandwidth 20.0 MHz



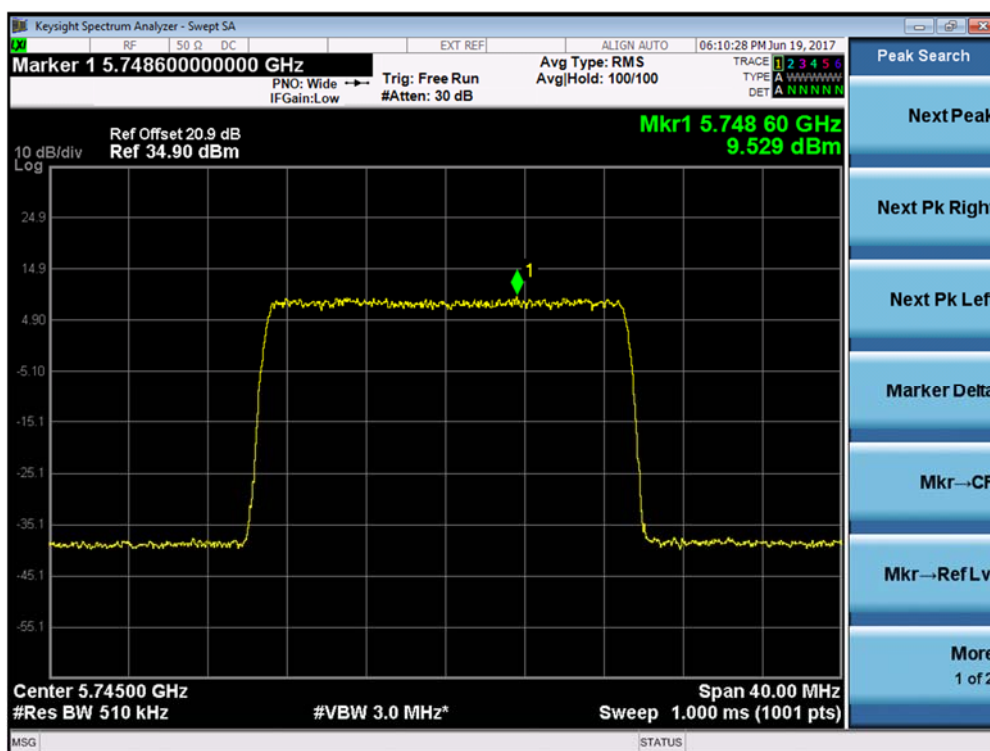


Product Service

Channel Position B - 64QAM - Antenna A/ Bandwidth 20.0 MHz



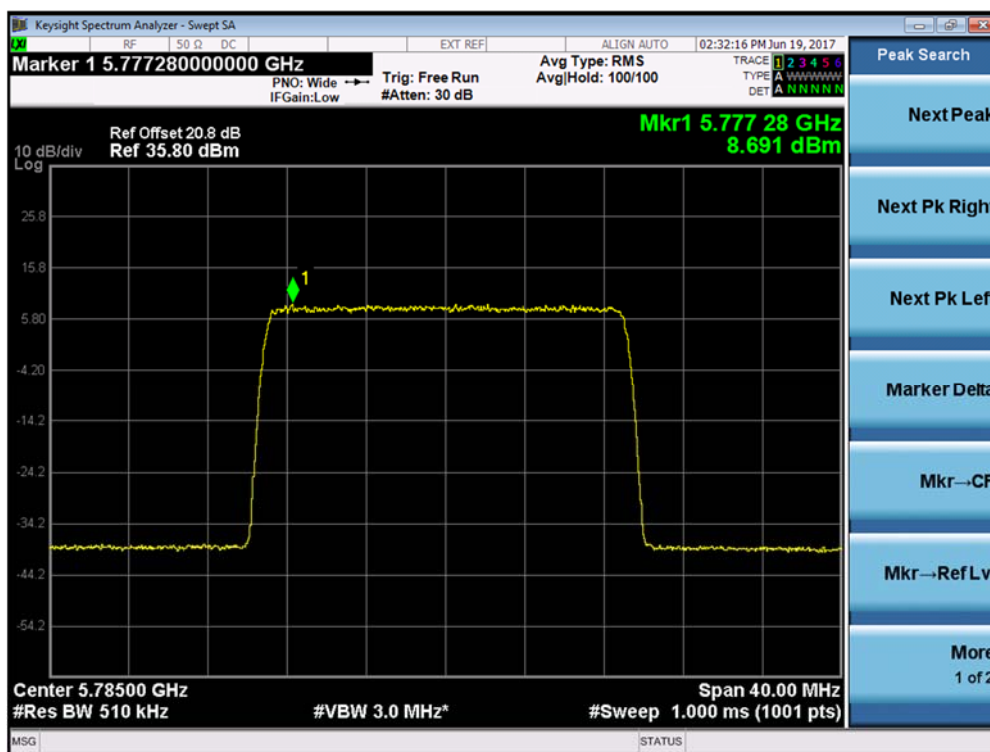
Channel Position B - 64QAM - Antenna B/ Bandwidth 20.0 MHz



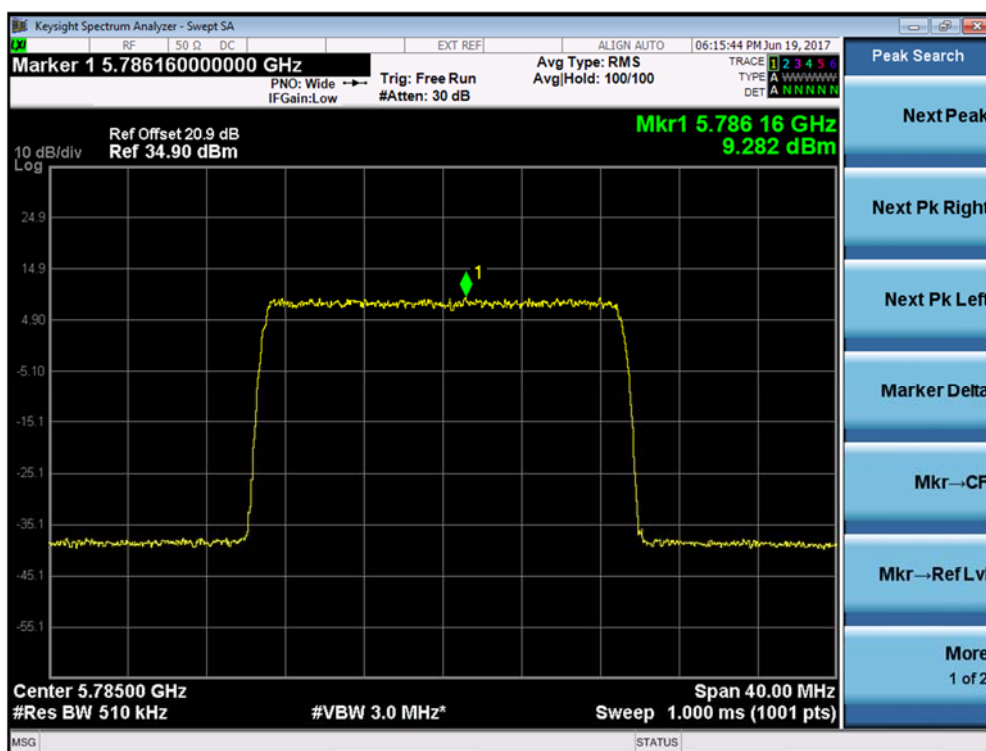


Product Service

Channel Position M - 64QAM - Antenna A/ Bandwidth 20.0 MHz



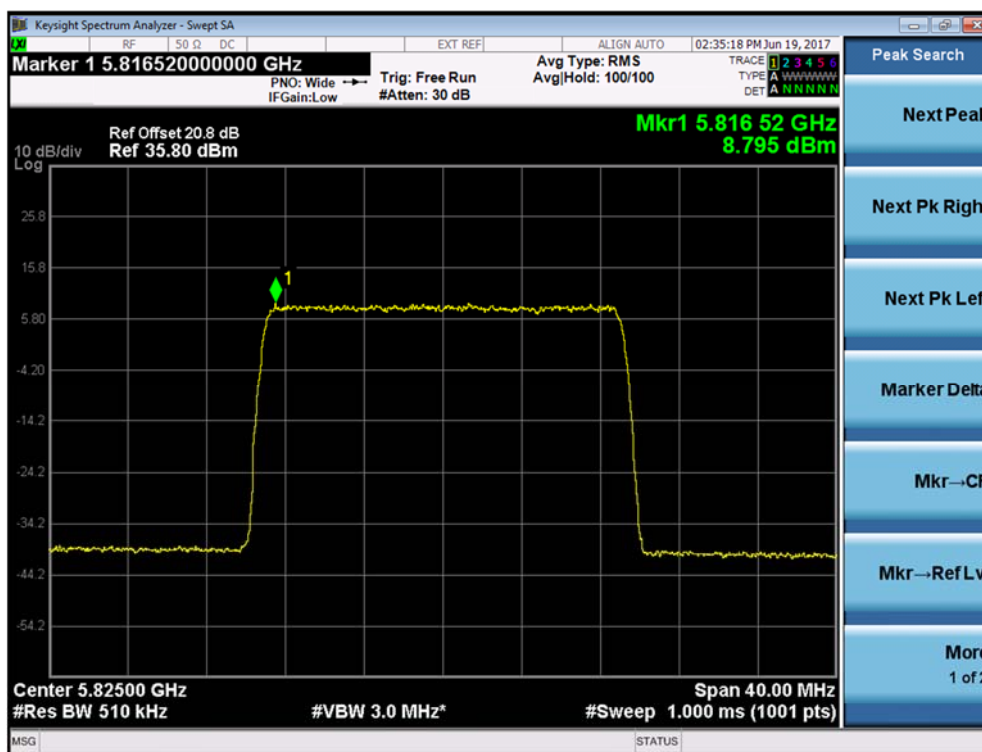
Channel Position M - 64QAM - Antenna B/ Bandwidth 20.0 MHz



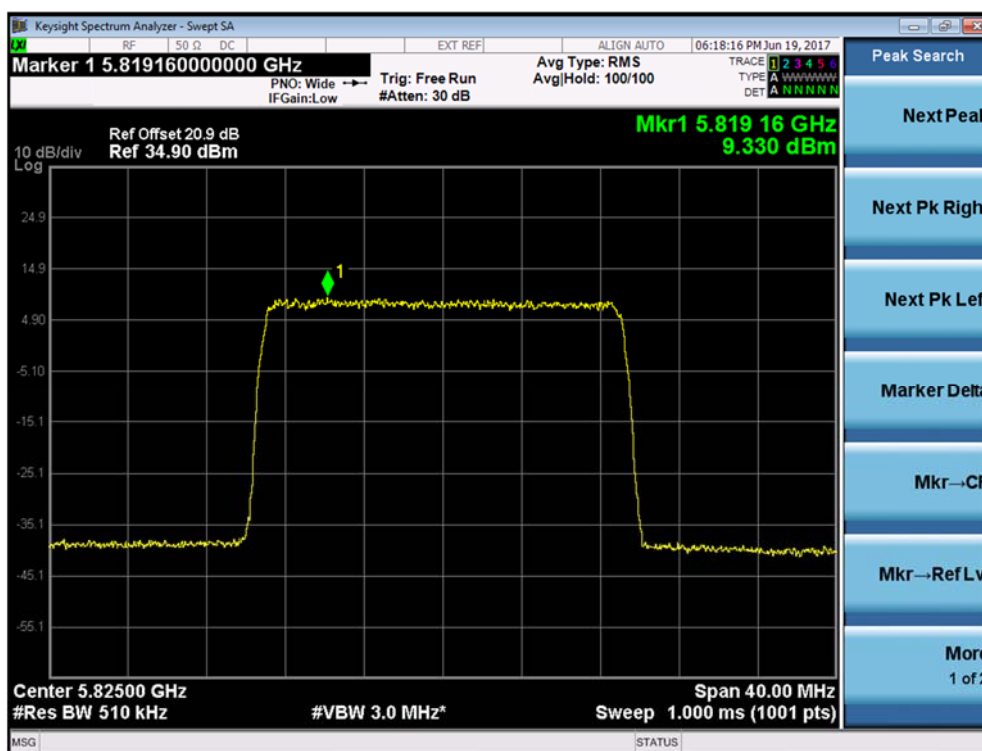


Product Service

Channel Position T - 64QAM - Antenna A/ Bandwidth 20.0 MHz



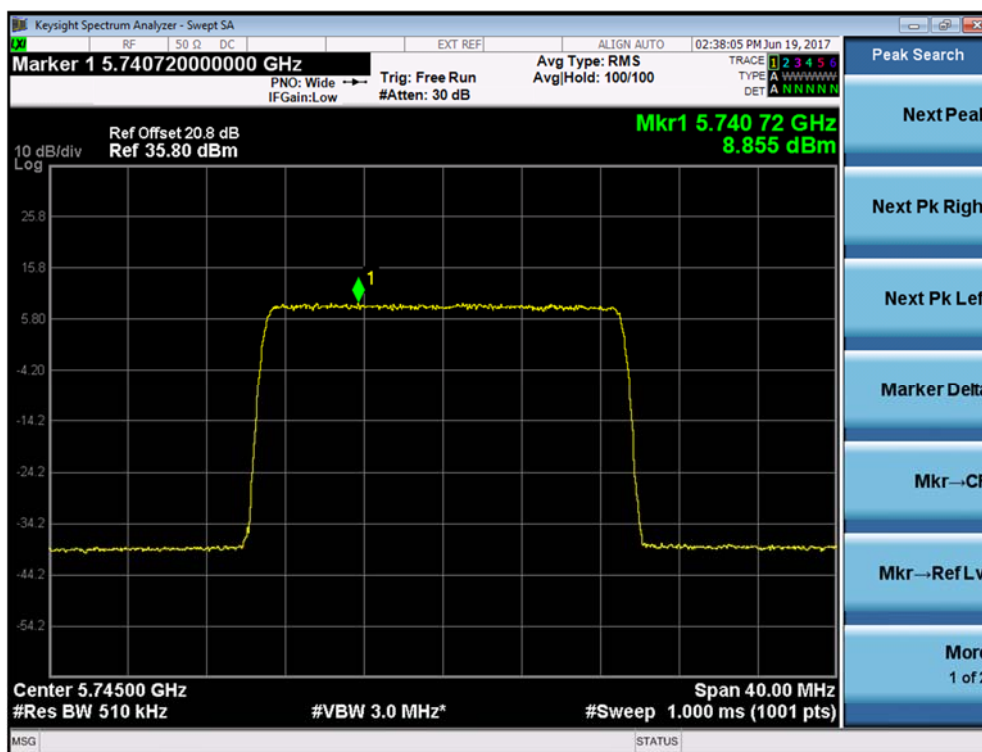
Channel Position T - 64QAM - Antenna B/ Bandwidth 20.0 MHz



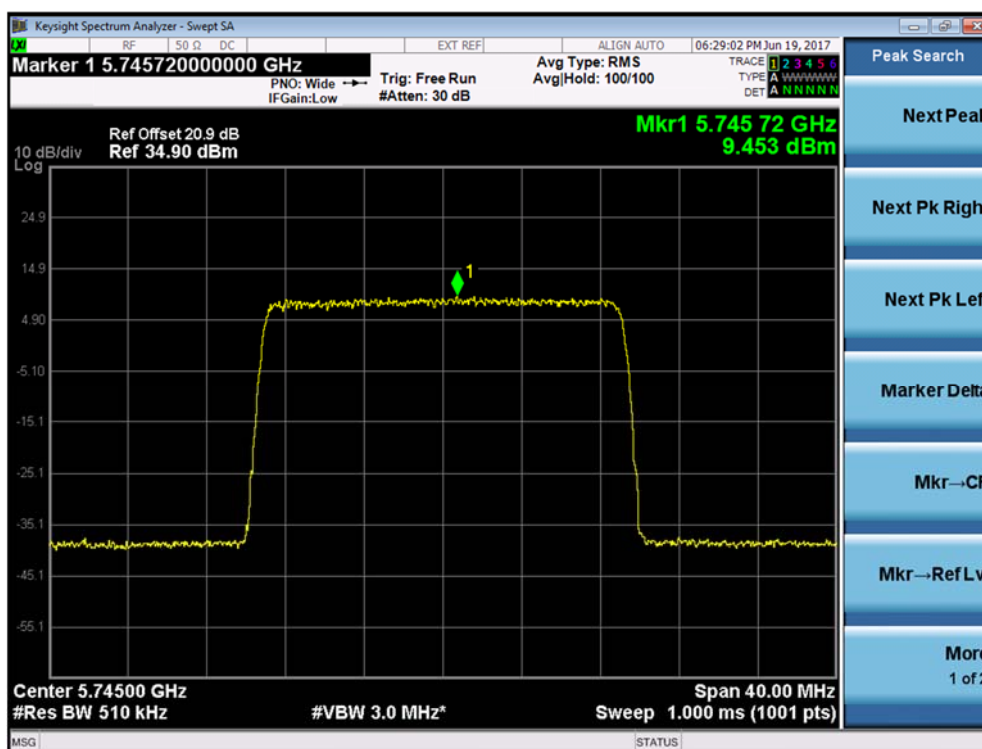


Product Service

Channel Position B - 256QAM - Antenna A/ Bandwidth 20.0 MHz



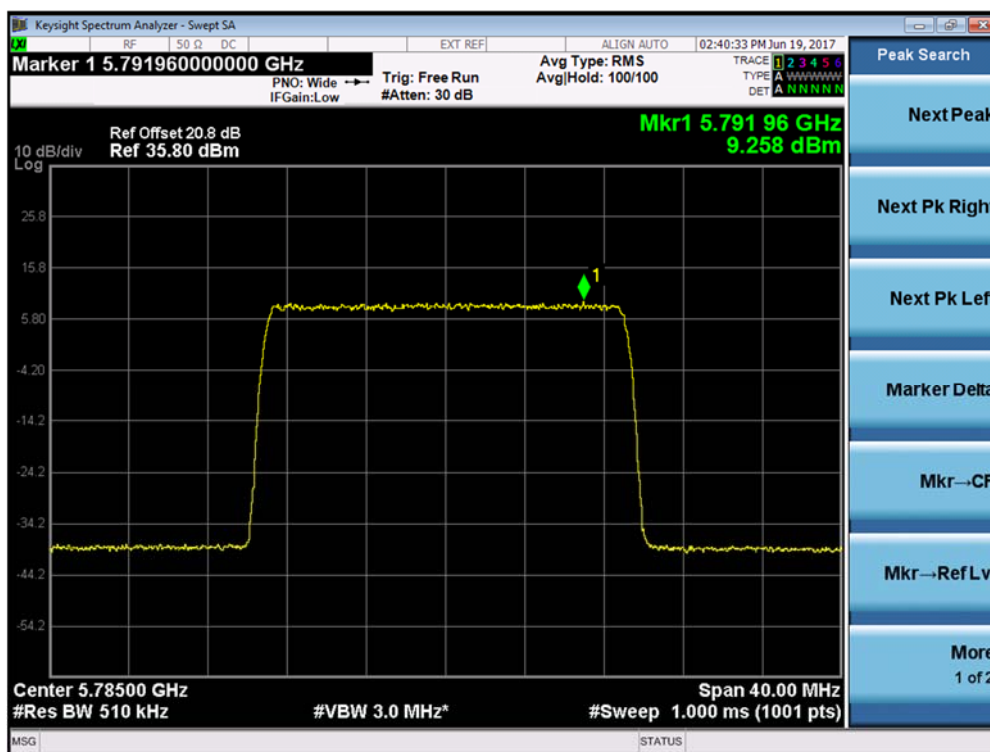
Channel Position B - 256QAM - Antenna B/ Bandwidth 20.0 MHz



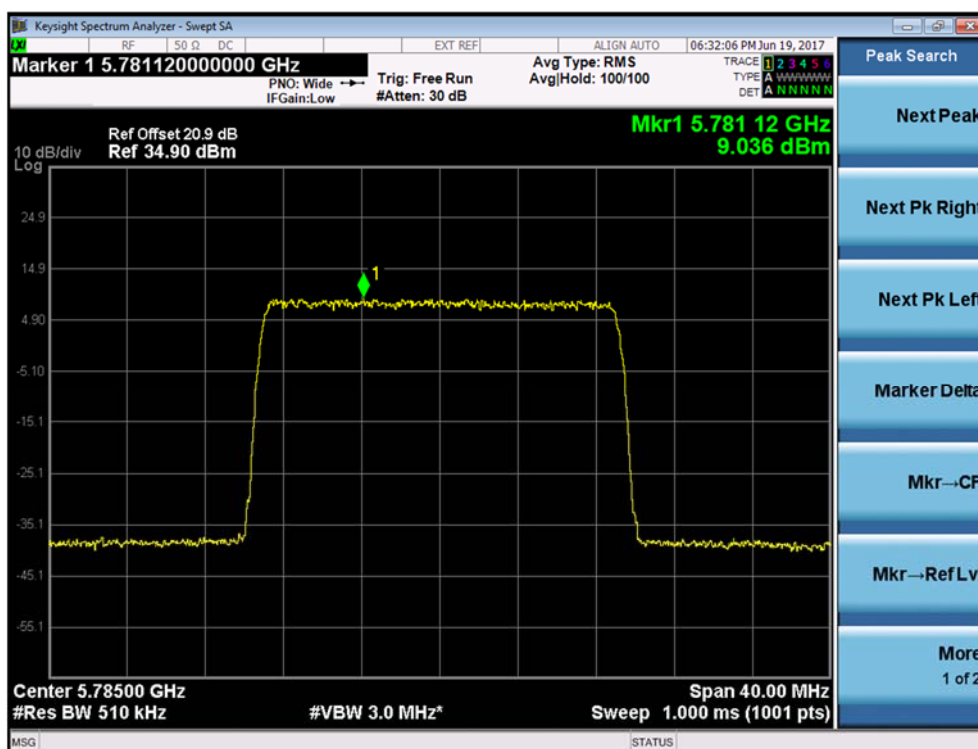


Product Service

Channel Position M - 256QAM - Antenna A/ Bandwidth 20.0 MHz



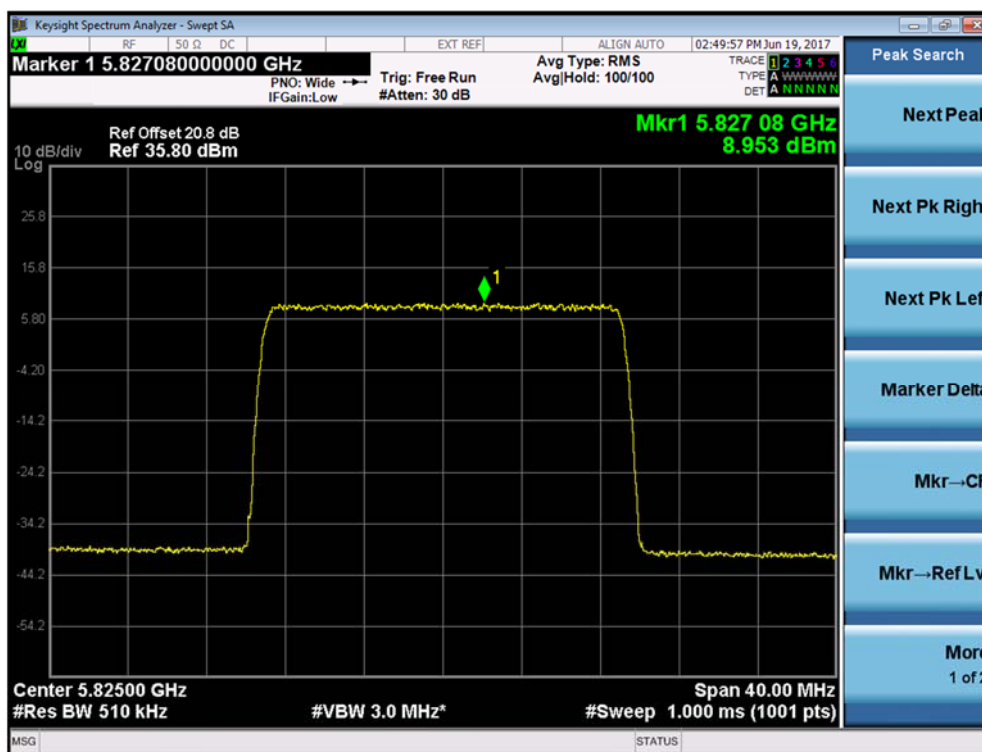
Channel Position M - 256QAM - Antenna B/ Bandwidth 20.0 MHz



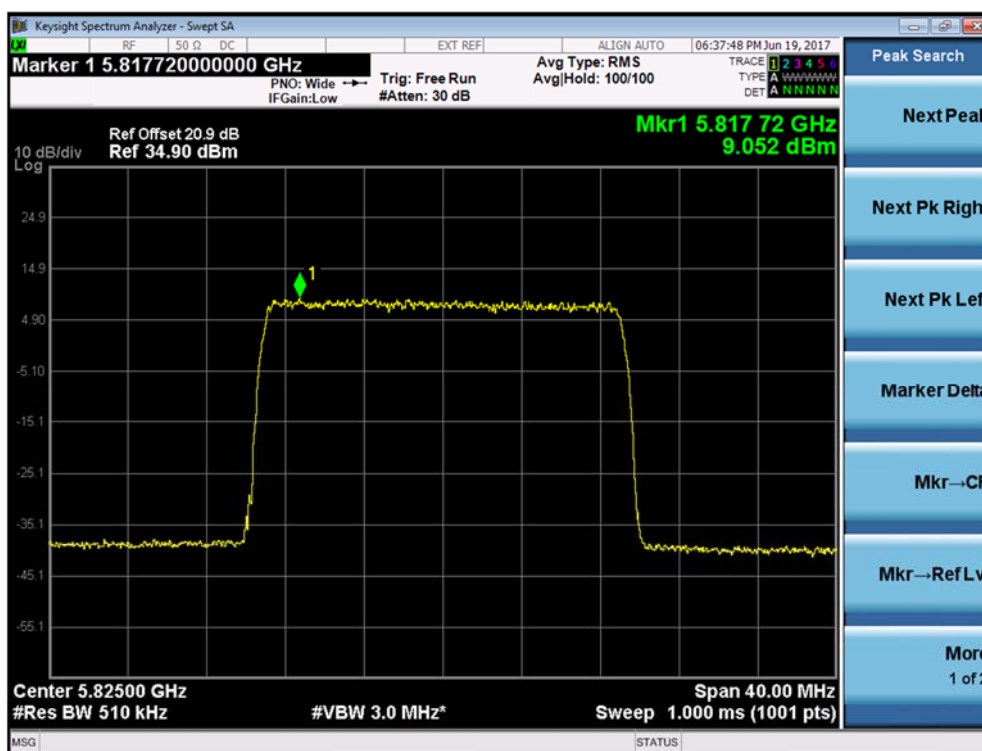


Product Service

Channel Position T - 256QAM - Antenna A/ Bandwidth 20.0 MHz



Channel Position T - 256QAM - Antenna B/ Bandwidth 20.0 MHz





Product Service

Limit	
Maximum Power Spectral Density	≤ 17 dBm/MHz for the band 5.15 - 5.25 GHz ≤ 17 dBm/500kHz for the band 5.725 - 5.58 GHz

Remarks

The maximum Power Spectral Density of the EUT is sufficient to keep it within the range of the Power Spectral Density that the manufacture declared and the requirements of FCC standards.

2.3 26 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

2.3.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049(h)
FCC CFR 47 Part 15, Clause 15.407 (a)(e)

2.3.2 Equipment Under Test

Radio 2205 B46, KRC 161 609/1, S/N: D825784303

2.3.3 Date of Test and Modification State

20 to 23 June 2017 - Modification State 0

2.3.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 4.1.

2.3.5 Environmental Conditions

Ambient Temperature	23.8 - 24.3°C
Relative Humidity	53.0 - 59.0%

2.3.6 Test Method

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 15, clause 15.407 (a)(e).

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyser, the 26dB bandwidth and 6dB bandwidth was measured in accordance with FCC KDB 789033 D02 General U-NII Test Procedures New Rules v01r04 Clause II.C. In addition, measurements of 99% occupied bandwidths were made in accordance with Clause II.D. The RBW was configured to 1% of the theoretical channel bandwidth, meeting the requirement of being between 1 to 5% of the Occupied Bandwidth described in the KDB aforementioned.

The results are shown in the plots below.



Product Service

2.3.7 Test Results

Configuration A1

L-MIMO-SC

Maximum Output Power 20.5dBm per port

-26 dBc and 99% Occupied Bandwidth for FCC requirement

Modulation / Bandwidth	Occupied Bandwidth (MHz)					
	Channel Position B 5180.0MHz		Channel Position M 5220.0MHz		Channel Position T 5240.0MHz	
	-26 dB Bandwidth	99% Bandwidth	-26 dB Bandwidth	99% Bandwidth	-26 dB Bandwidth	99% Bandwidth
QPSK / 20.0 MHz	18.700	17.848	18.760	17.883	18.770	17.830
16QAM / 20.0 MHz	18.650	17.872	18.760	17.875	18.780	17.821
64QAM / 20.0 MHz	18.840	17.839	18.680	17.876	18.770	17.870
256QAM / 20.0 MHz	18.840	17.833	18.870	17.850	18.730	17.808