

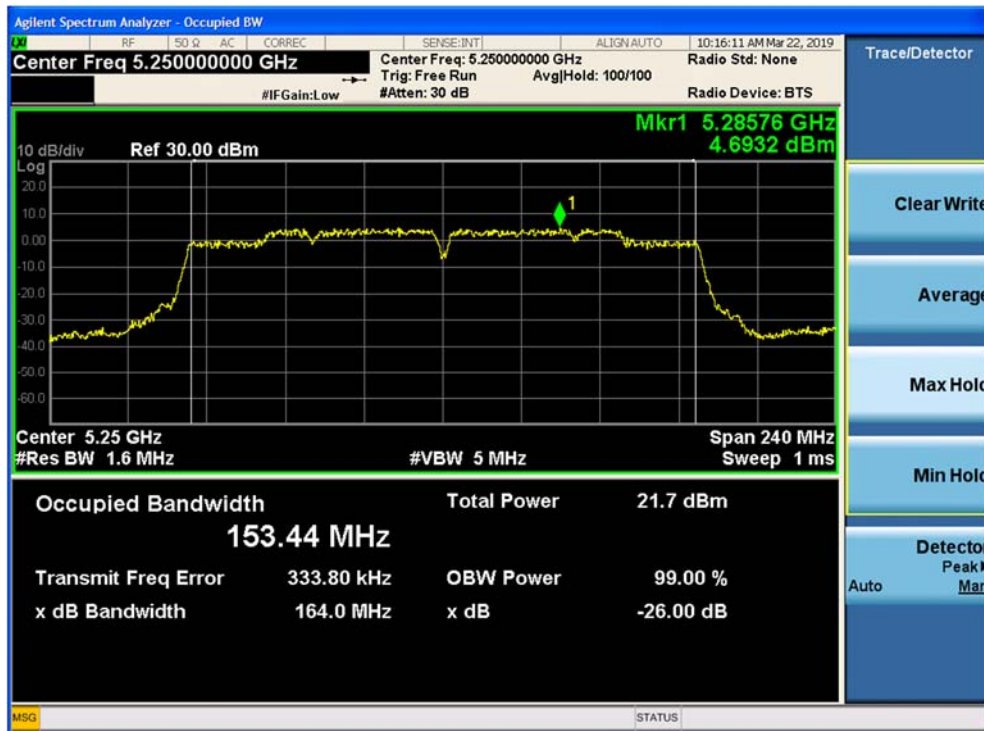


Figure 9-120. 26-dB Emission Bandwidth and 99% OBW SISO Chain A 802.11ac VHT160 (Ch. 50)

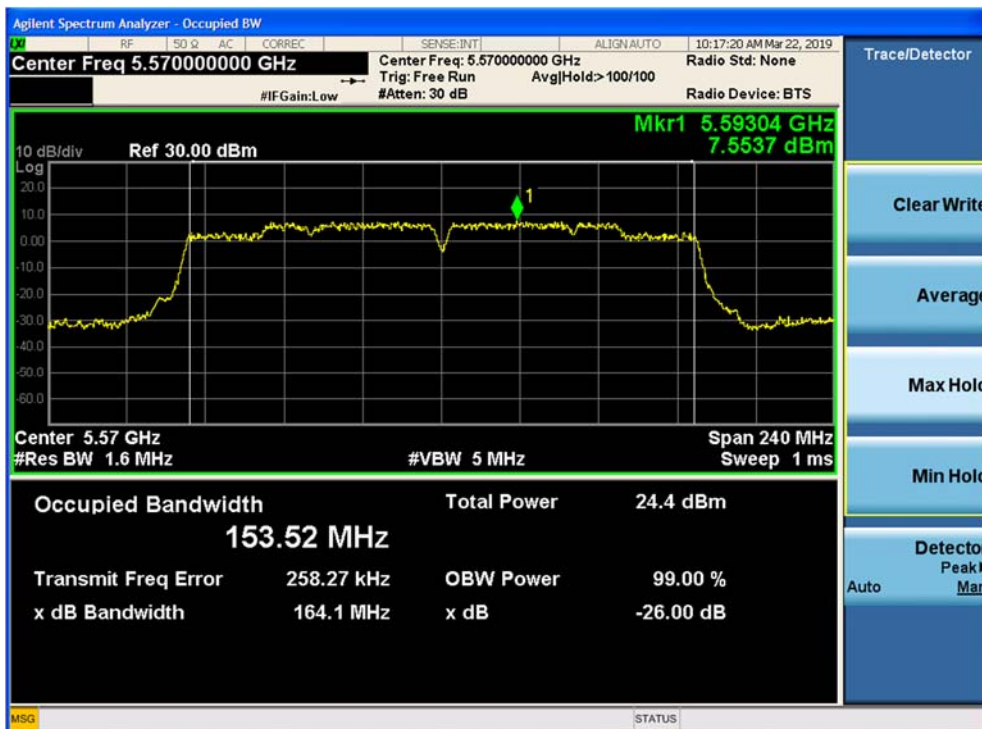


Figure 9-121. 26-dB Emission Bandwidth and 99% OBW SISO Chain A 802.11ac VHT160 (Ch. 114)

9.2.5.26 SISO Chain B 802.11ac VHT160 26-dB Emission Bandwidth

SISO Chain B 802.11ac VHT160 26-dB Emission Bandwidth				
Band	Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)	99% Occupied BW (MHz)
UNII-1/UNII-2A	50	5250	163.90	153.43
UNII-2C	114	5570	163.70	153.61

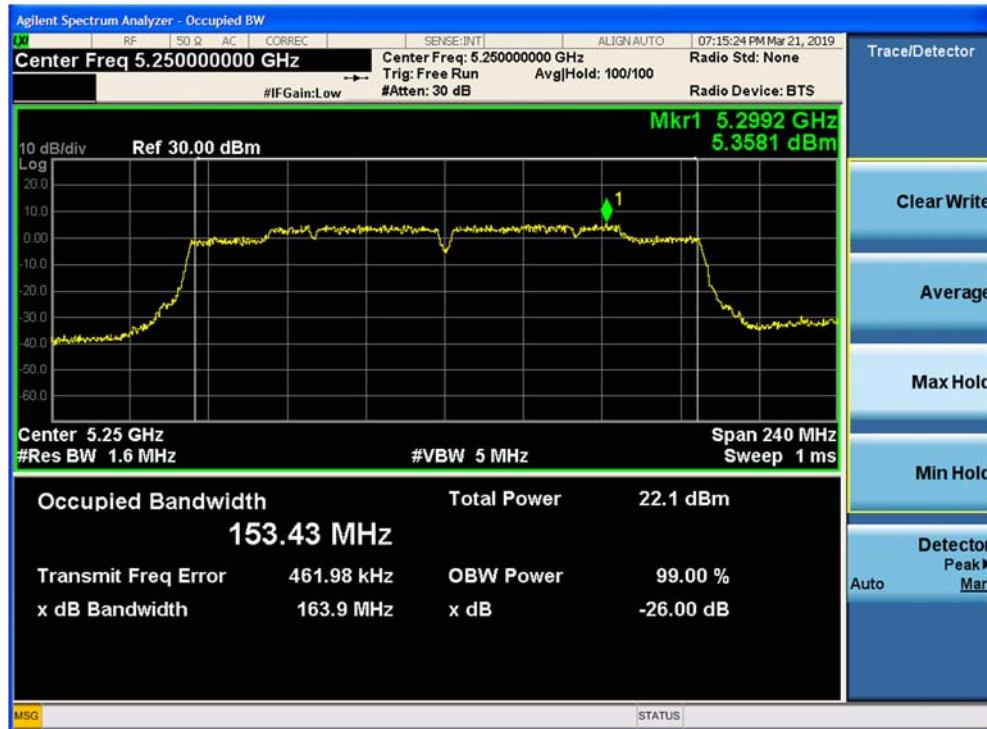


Figure 9-122. 26-dB Emission Bandwidth and 99% OBW SISO Chain B 802.11ac VHT160 (Ch. 50)

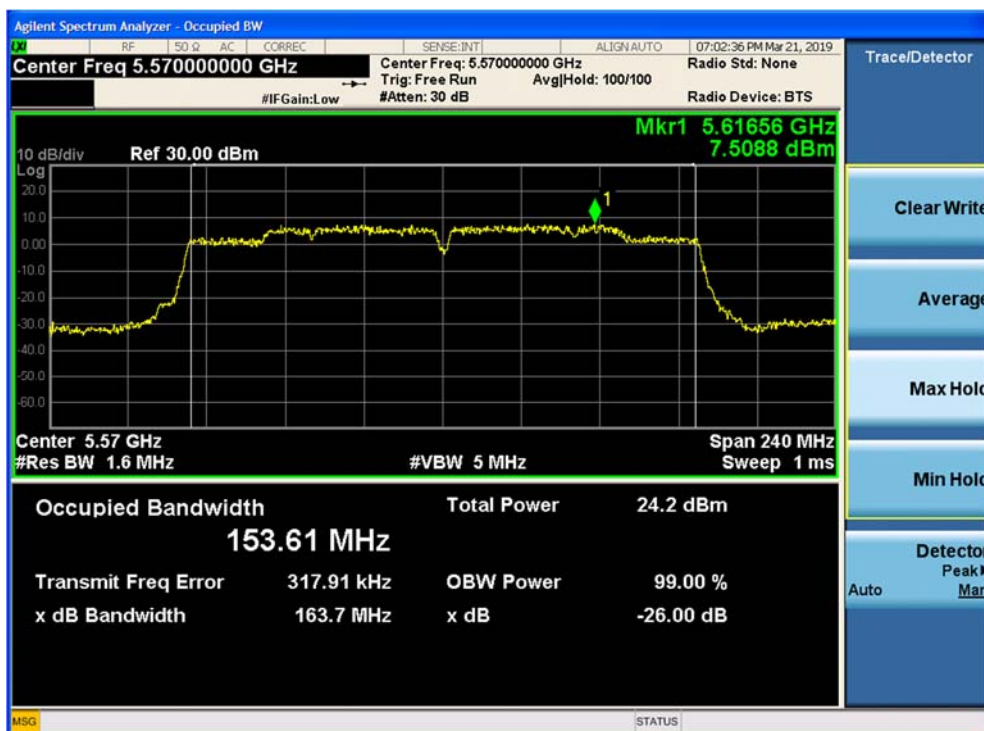


Figure 9-123. 26-dB Emission Bandwidth and 99% OBW SISO Chain B 802.11ac VHT160 (Ch. 114)

9.2.5.27 MIMO Chain A 802.11ac VHT160 26-dB Emission Bandwidth

MIMO Chain A 802.11ac VHT160 26-dB Emission Bandwidth				
Band	Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)	99% Occupied BW (MHz)
UNII-1/UNII-2A	50	5250	164.40	153.38
UNII-2C	114	5570	164.30	153.32

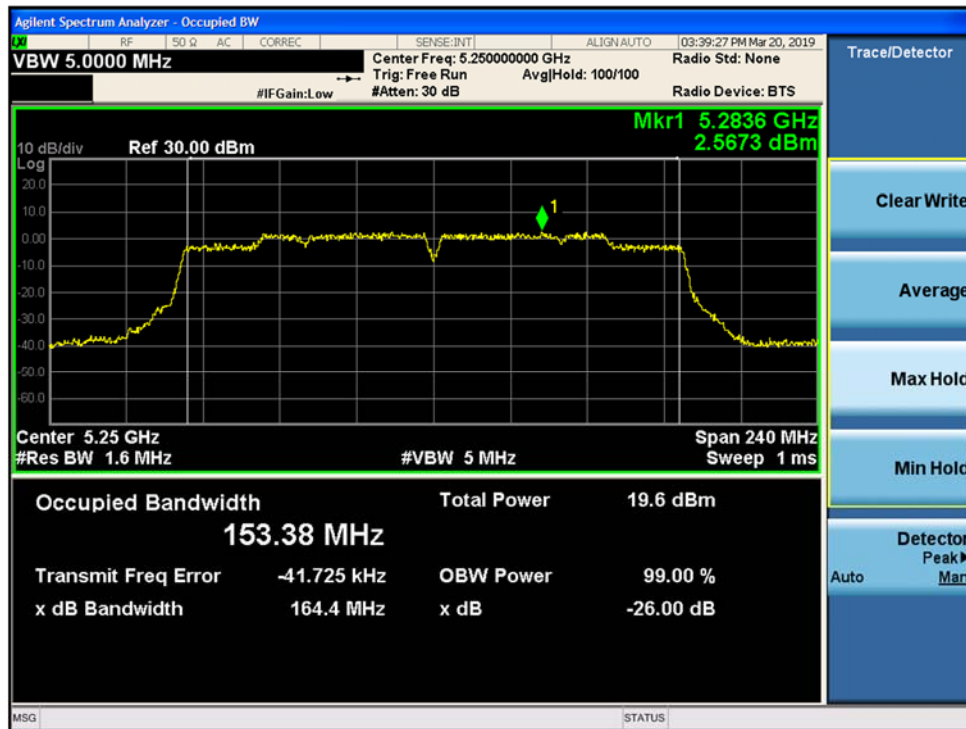


Figure 9-124. 26-dB Emission Bandwidth and 99% OBW MIMO Chain A 802.11ac VHT160 (Ch. 50)

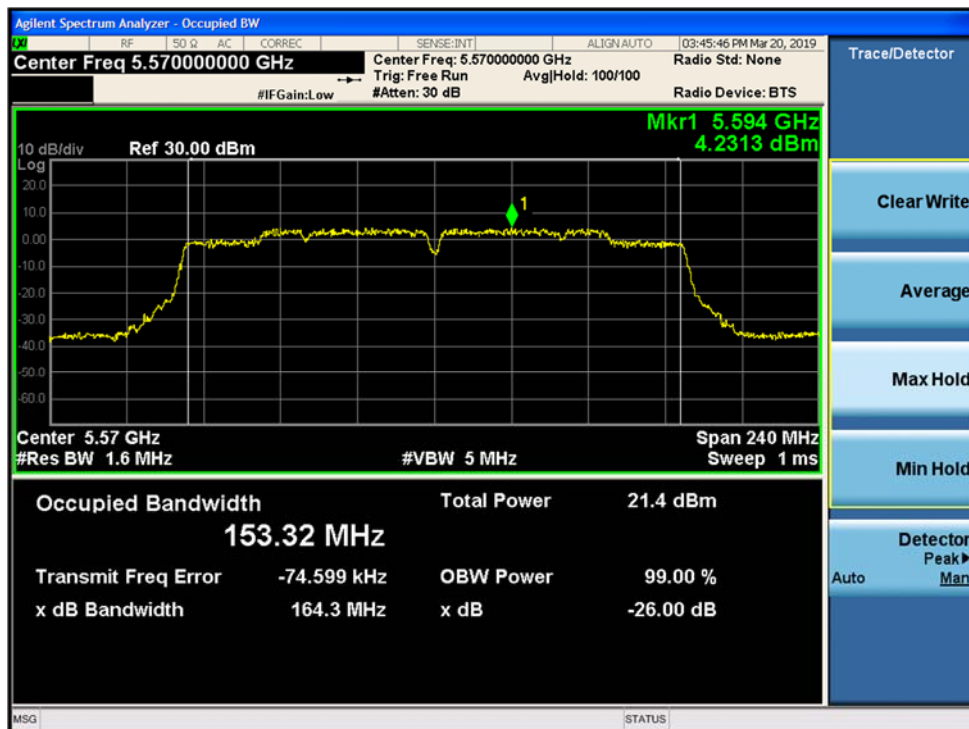


Figure 9-125. 26-dB Emission Bandwidth and 99% OBW MIMO Chain A 802.11ac VHT160 (Ch. 114)

9.2.5.28 MIMO Chain B 802.11ac VHT160 26-dB Emission Bandwidth

MIMO Chain B 802.11ac VHT160 26-dB Emission Bandwidth				
Band	Channel No.	Frequency (MHz)	26-dB Emission Bandwidth (MHz)	99% Occupied BW (MHz)
UNII-1/UNII-2A	50	5250	164.30	153.47
UNII-2C	114	5570	162.80	153.35

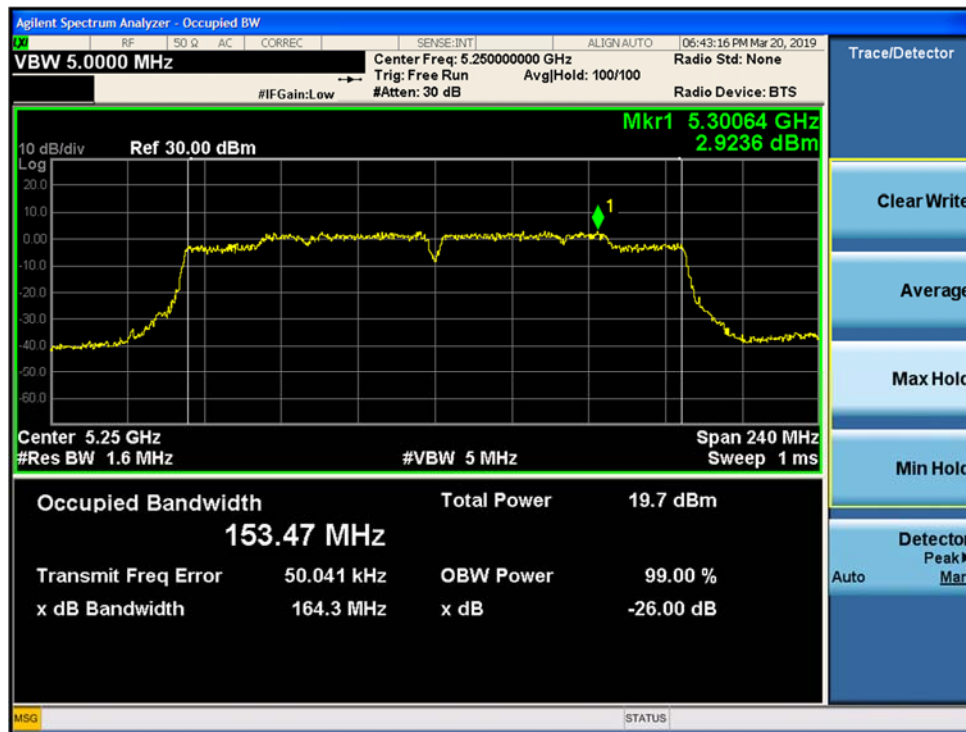


Figure 9-126. 26-dB Emission Bandwidth and 99% OBW MIMO Chain B 802.11ac VHT160 (Ch. 50)

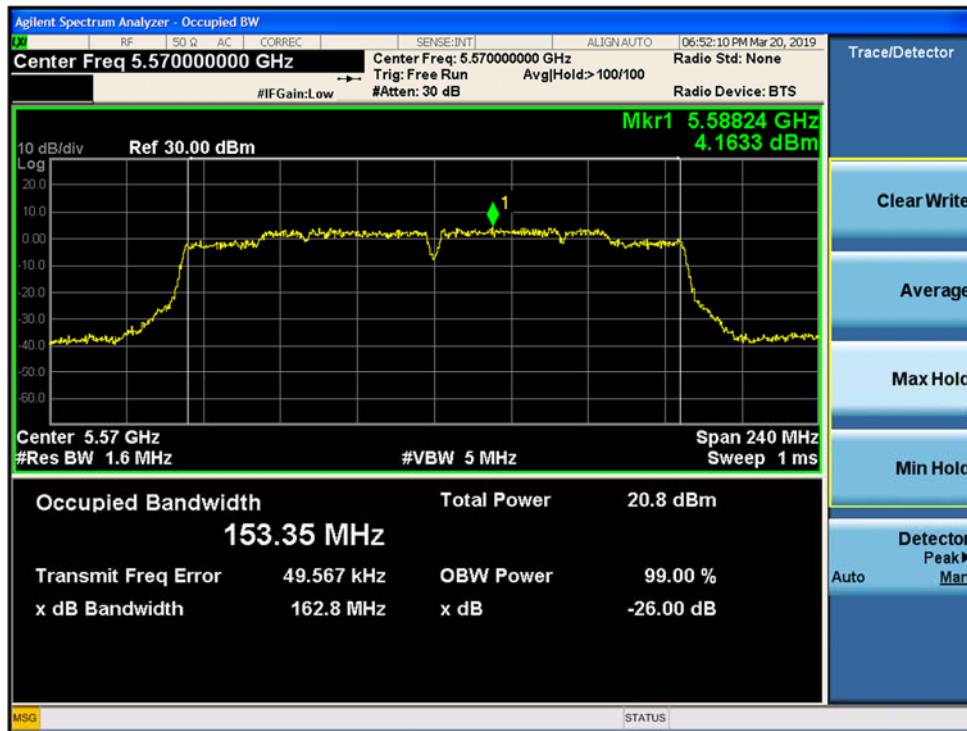


Figure 9-127. 26-dB Emission Bandwidth and 99% OBW MIMO Chain B 802.11ac VHT160 (Ch. 114)

9.3 6-dB Bandwidth

9.3.1 Test Requirement:

FCC CFR 47 Rule Part 15.407 (e)
ISED RSS-247 [6.2.4]

9.3.2 Test Method:

Measurements were performed according to the procedures defined in KDB 789033- General UNII Test Procedures New Rules v02r01 and ANSI C63.10:2013.

Spectrum Analyzer settings:

RBW = 100 kHz

VBW $\geq$ 3xRBW

Trace Mode= Peak Detector (Max Hold)

Sweep time= Auto

The in-built functionality of the Spectrum Analyzer is used to measure the 6-dB bandwidth.

9.3.3 Limits:

The 6-dB Bandwidth shall be $\geq$ 500 kHz.

9.3.4 Test Results:

Pass

9.3.5 Test Data:

Worst Case bandwidth plots are shown.

9.3.5.1 SISO Chain A 802.11a 6-dB Bandwidth

SISO Chain A 802.11a 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.19
149	5745	16.38
157	5785	16.38
165	5825	16.38



Figure 9-128 Bandwidth SISO Chain A 802.11a (Ch. 144)

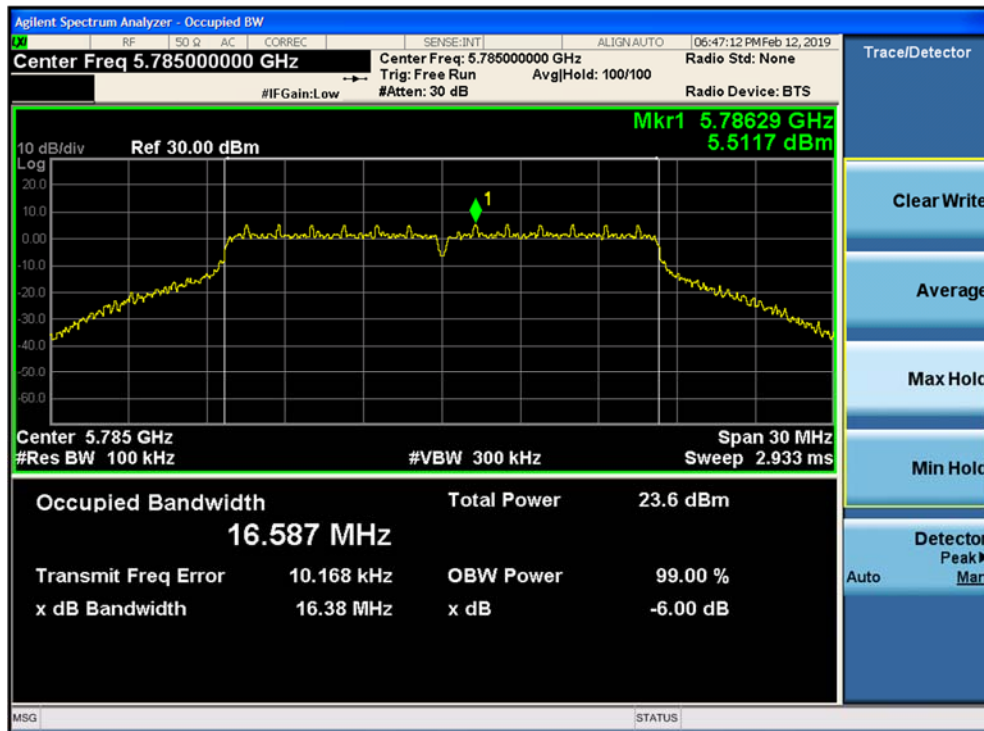


Figure 9-129 Bandwidth SISO Chain A 802.11a (Ch. 157)

9.3.5.2 SISO Chain B 802.11a 6-dB Bandwidth

SISO Chain B 802.11a 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.22
149	5745	16.40
157	5785	16.40
165	5825	16.39



Figure 9-130 Bandwidth SISO Chain B 802.11a (Ch. 144)

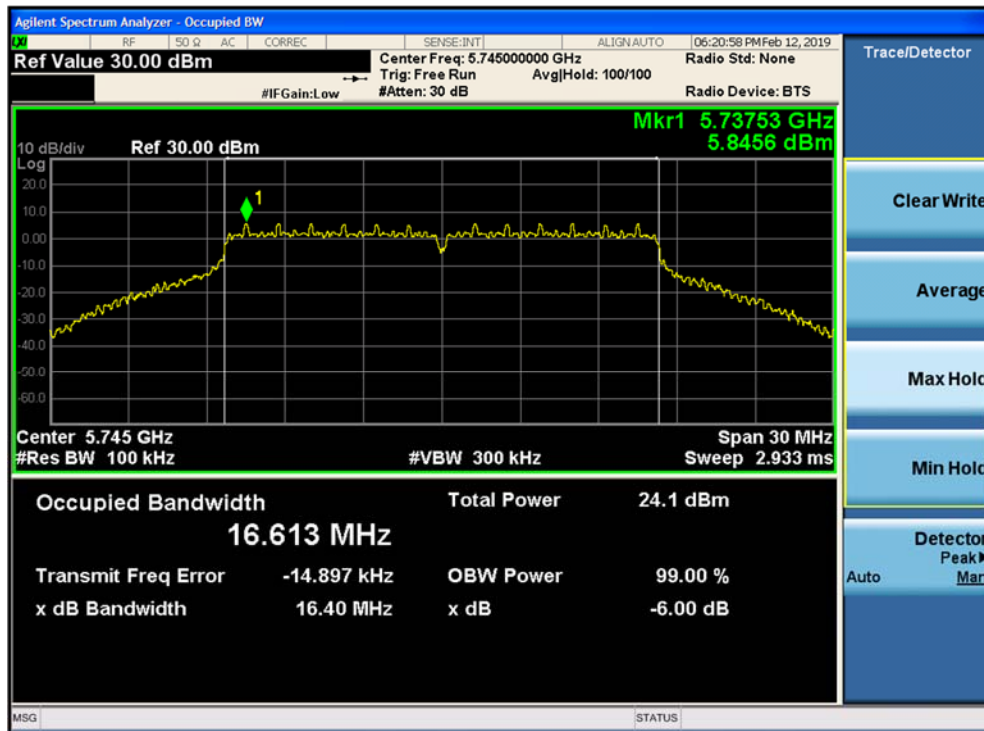


Figure 9-131 Bandwidth SISO Chain B 802.11a (Ch. 165)

9.3.5.3 MIMO Chain A 802.11a 6-dB Bandwidth

MIMO Chain A 802.11a 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.21
149	5745	16.39
157	5785	16.40
165	5825	16.37

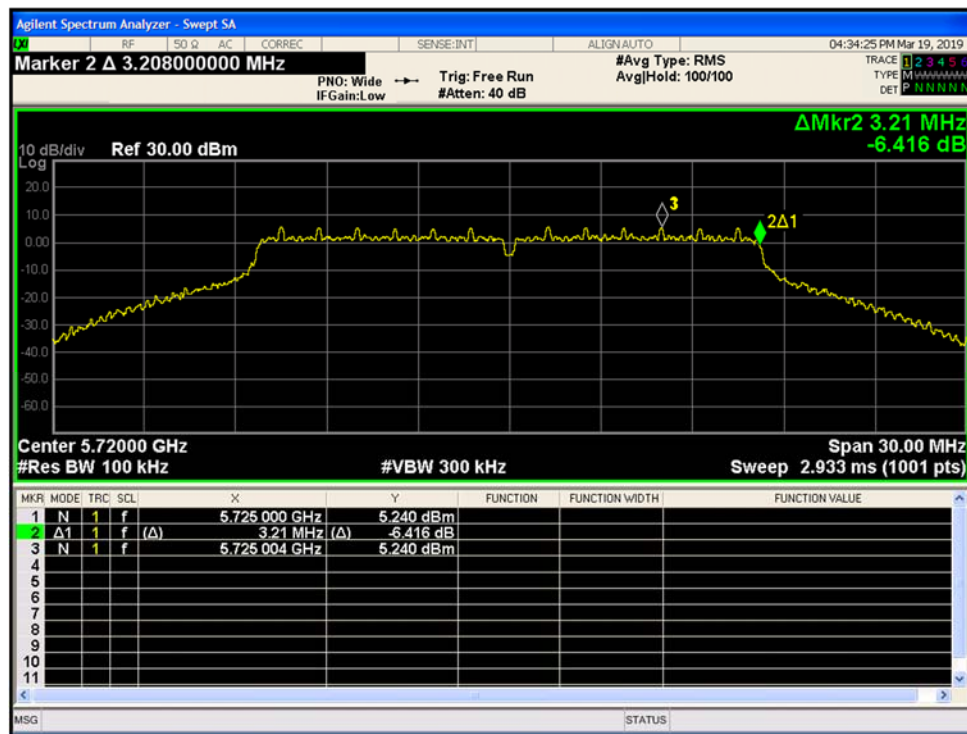


Figure 9-132 6-dB Bandwidth MIMO Chain A 802.11a (Ch. 144)

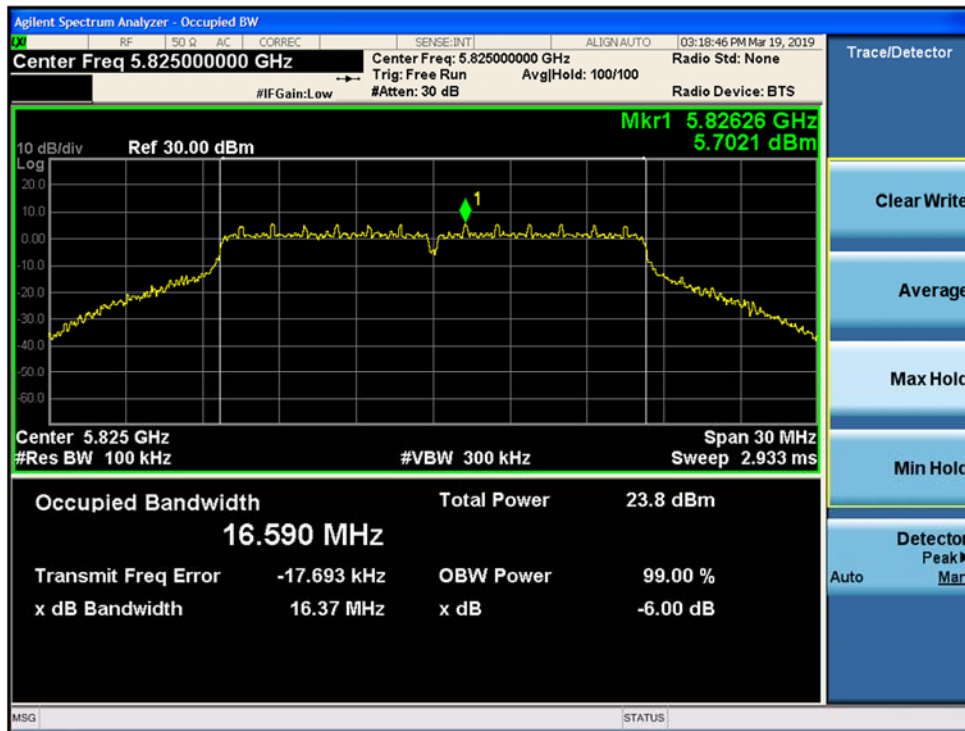


Figure 9-133 6-dB Bandwidth MIMO Chain A 802.11a (Ch. 165)

9.3.5.4 MIMO Chain B 802.11a 6-dB Bandwidth

MIMO Chain B 802.11a 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.22
149	5745	16.41
157	5785	16.39
165	5825	16.39

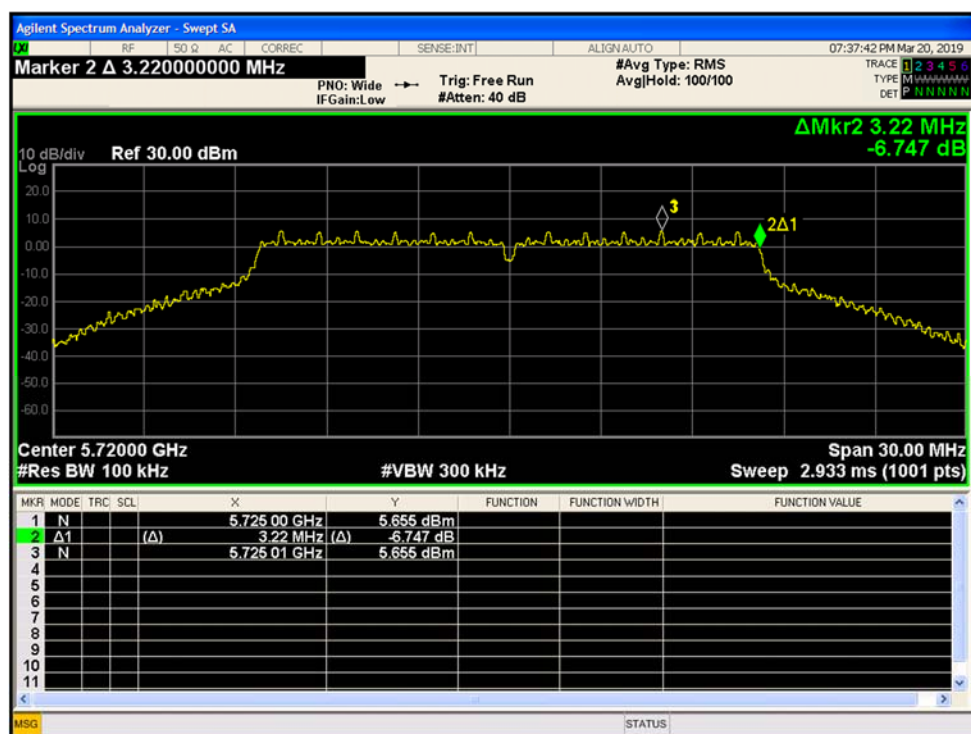


Figure 9-134. 6-dB Bandwidth MIMO Chain B 802.11a (Ch. 144)

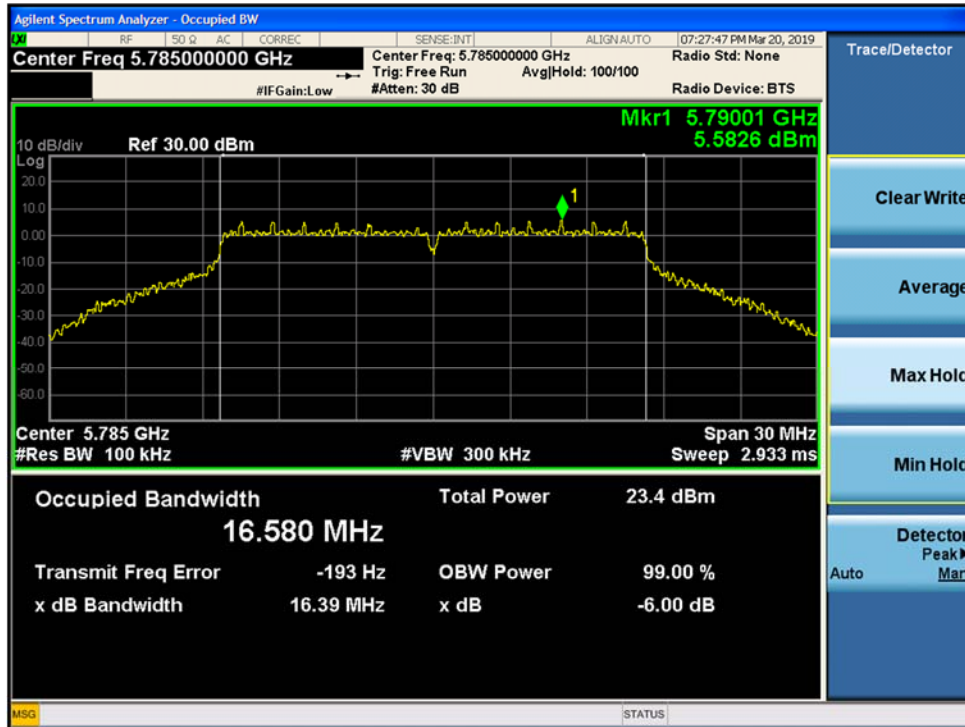


Figure 9-135 6-dB Bandwidth MIMO Chain B 802.11a (Ch. 157)

9.3.5.5 SISO Chain A 802.11n HT20 6-dB Bandwidth

SISO Chain A 802.11n HT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.61
157	5785	17.61
165	5825	17.60

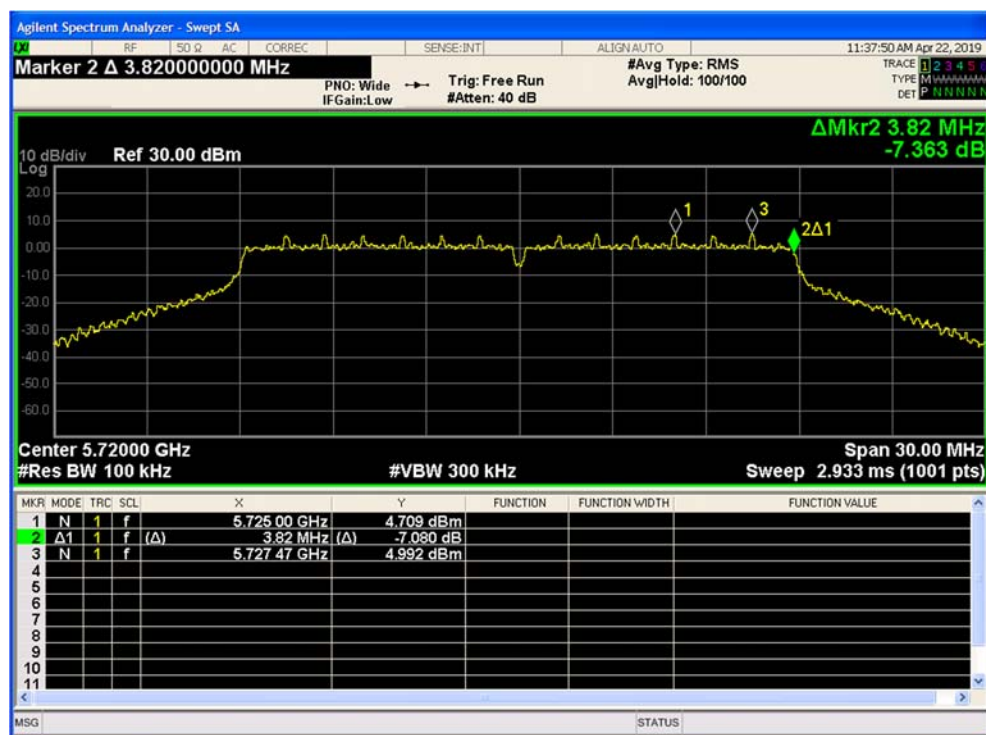


Figure 9-136 6-dB Bandwidth SISO Chain A 802.11n HT20 (Ch. 144)

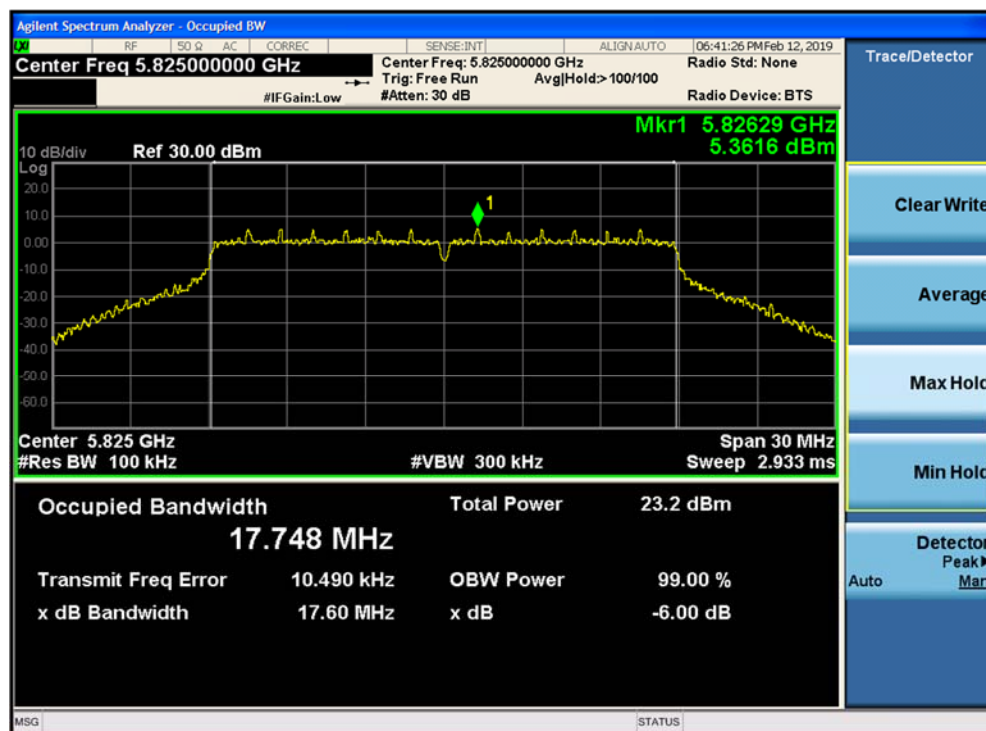


Figure 9-137 6-dB Bandwidth SISO Chain A 802.11n HT20 (Ch. 165)

9.3.5.6 SISO Chain B 802.11n HT20 6-dB Bandwidth

SISO Chain B 802.11n HT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.61
157	5785	17.60
165	5825	17.60

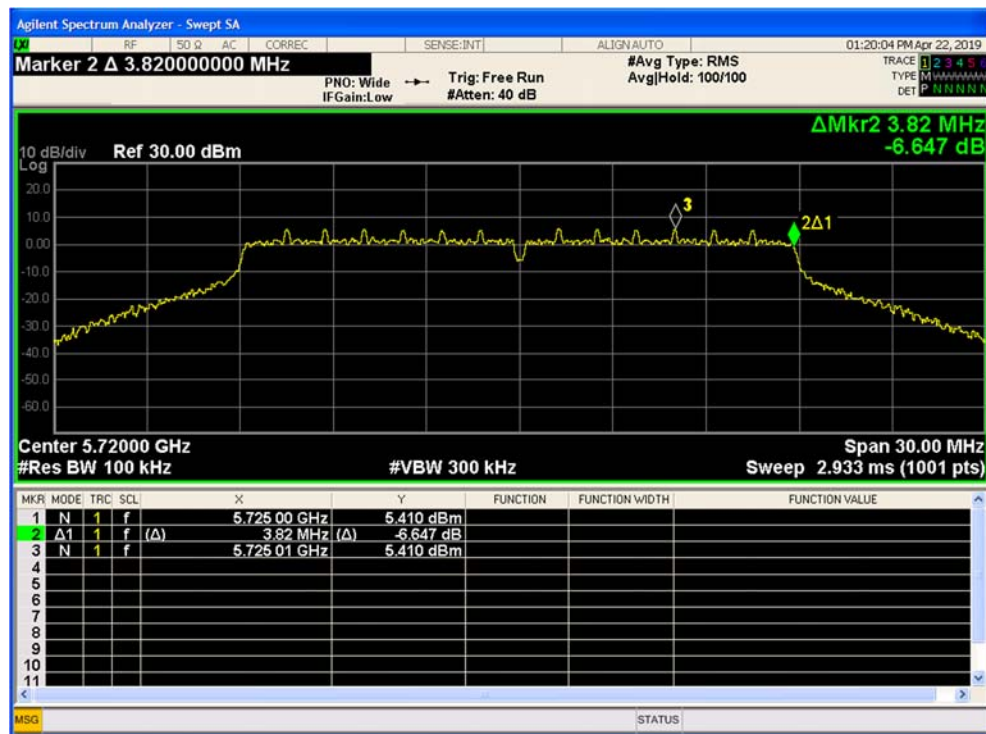


Figure 9-138 6-dB Bandwidth SISO Chain B 802.11n HT20 (Ch. 144)

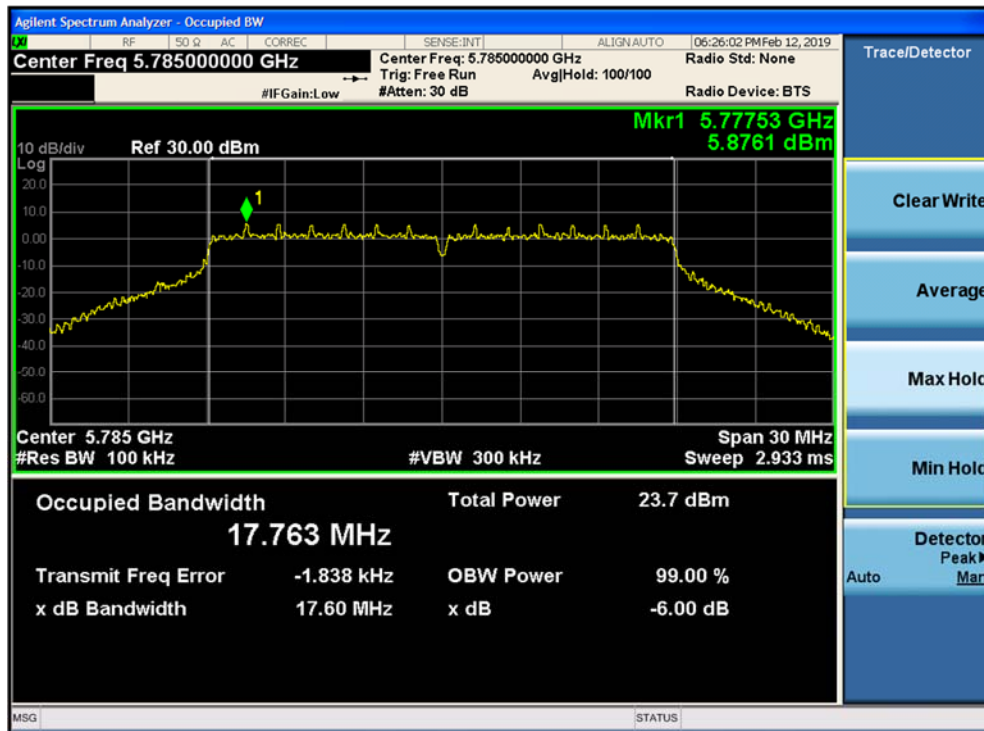


Figure 9-139 6-dB Bandwidth SISO Chain B 802.11n HT20 (Ch. 157)

9.3.5.7 MIMO Chain A 802.11n HT20 6-dB Bandwidth

MIMO Chain A 802.11n HT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.85
149	5745	17.6
157	5785	17.6
165	5825	17.6

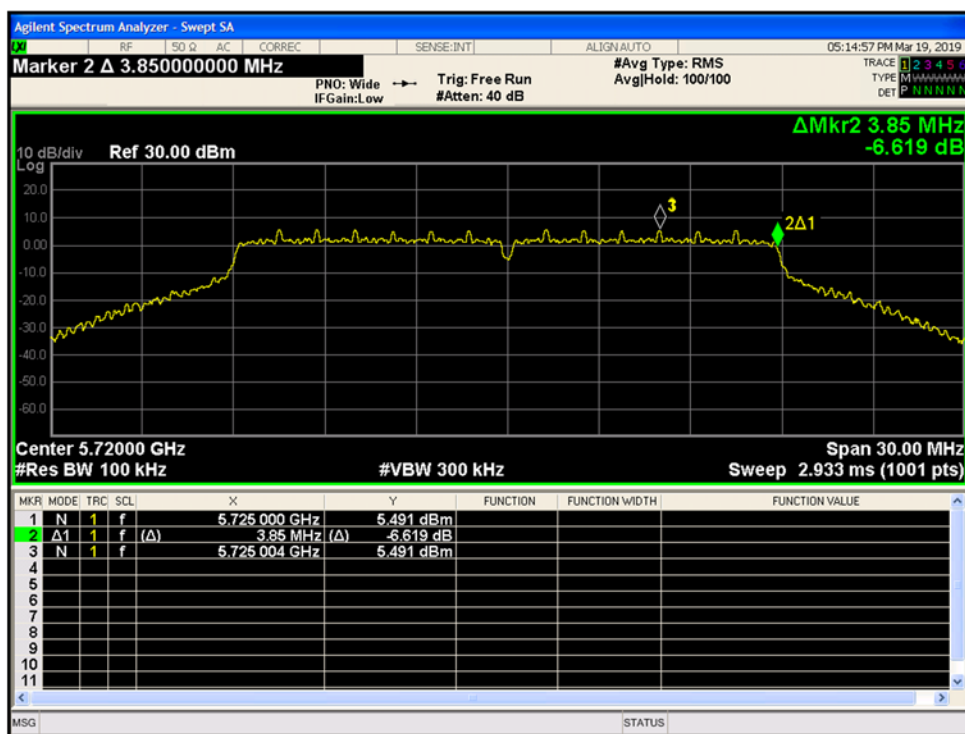


Figure 9-140. 6-dB Bandwidth MIMO Chain A 802.11n HT20 (Ch. 144)

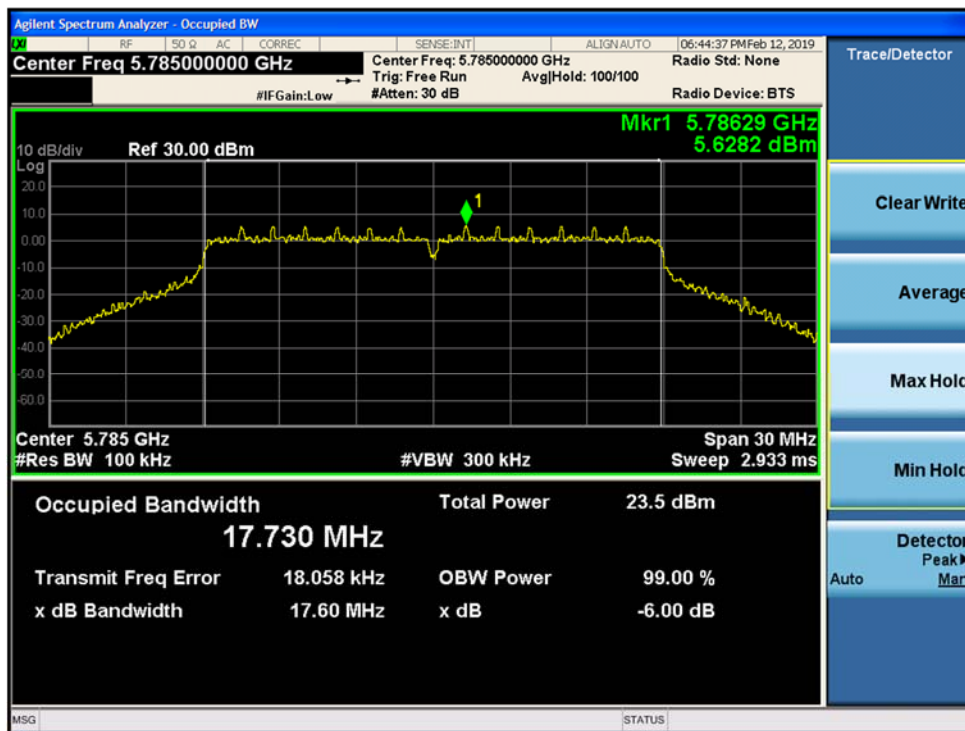


Figure 9-141. 6-dB Bandwidth MIMO Chain A 802.11n HT20 (Ch. 157)

9.3.5.8 MIMO Chain B 802.11n HT20 6-dB Bandwidth

MIMO Chain B 802.11n HT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.61
157	5785	17.61
165	5825	17.64

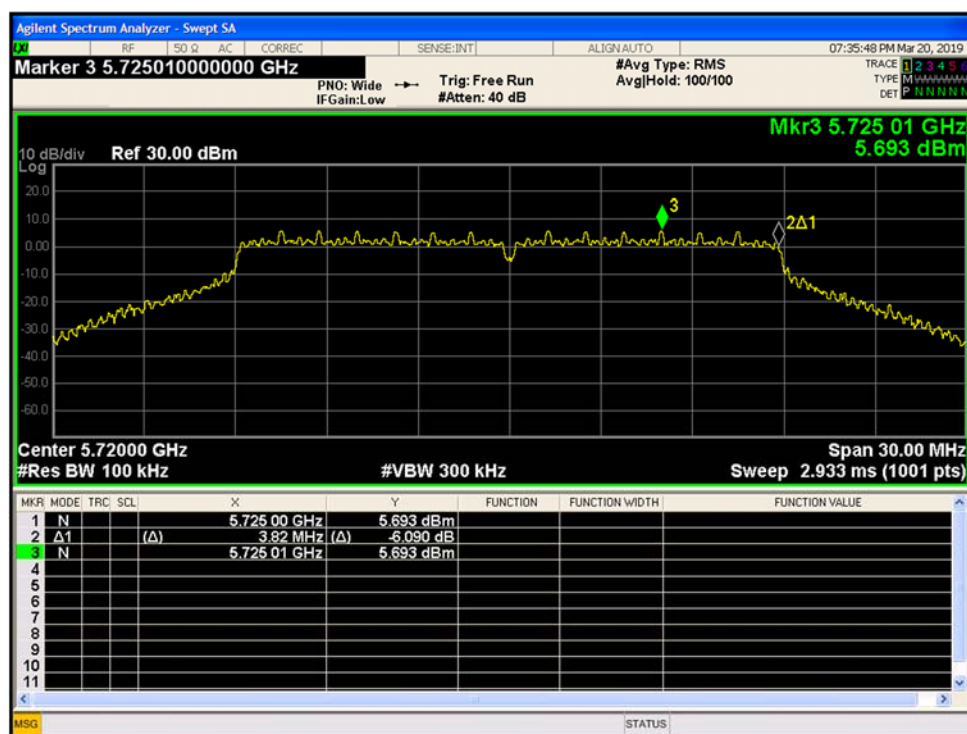


Figure 9-142. 6-dB Bandwidth MIMO Chain B 802.11n HT20 (Ch. 144)

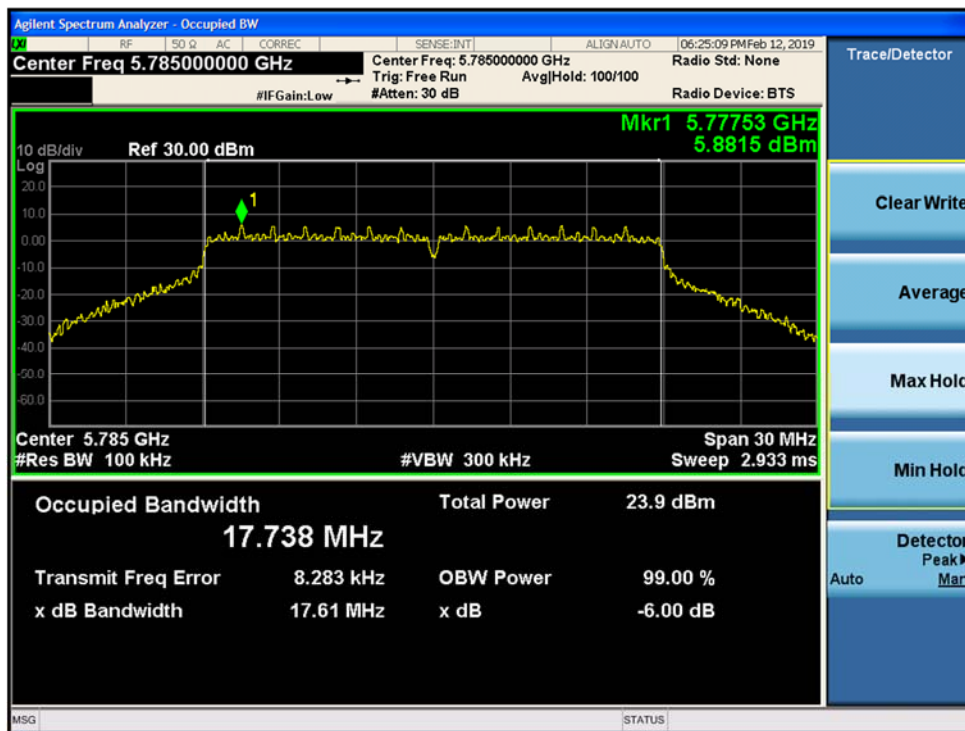


Figure 9-143. 6-dB Bandwidth MIMO Chain B 802.11n HT20 (Ch. 157)

9.3.5.9 SISO Chain A 802.11n HT40 6-dB Bandwidth

SISO Chain A 802.11n HT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.16
151	5755	36.38
159	5795	36.36



Figure 9-144 6-dB Bandwidth SISO Chain A 802.11n HT40 (Ch. 142)

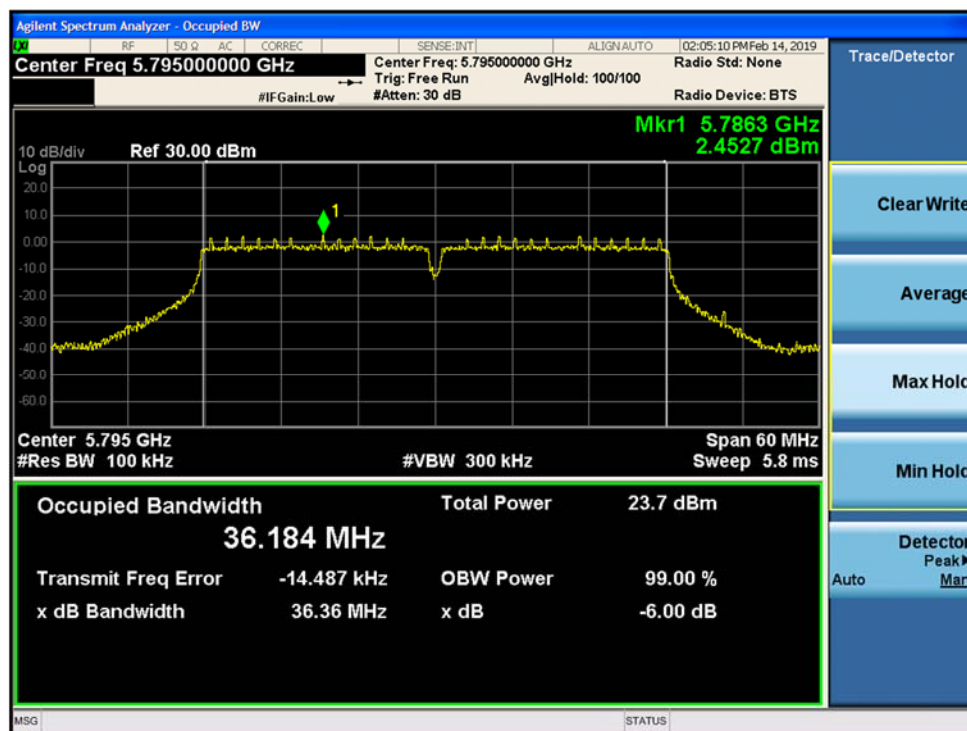


Figure 9-145 6-dB Bandwidth SISO Chain A 802.11n HT40 (Ch. 159)

9.3.5.10 SISO Chain B 802.11n HT40 6-dB Bandwidth

SISO Chain B 802.11n HT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.22
151	5755	36.38
159	5795	36.37



Figure 9-146 6-dB Bandwidth SISO Chain B 802.11n HT40 (Ch. 142)

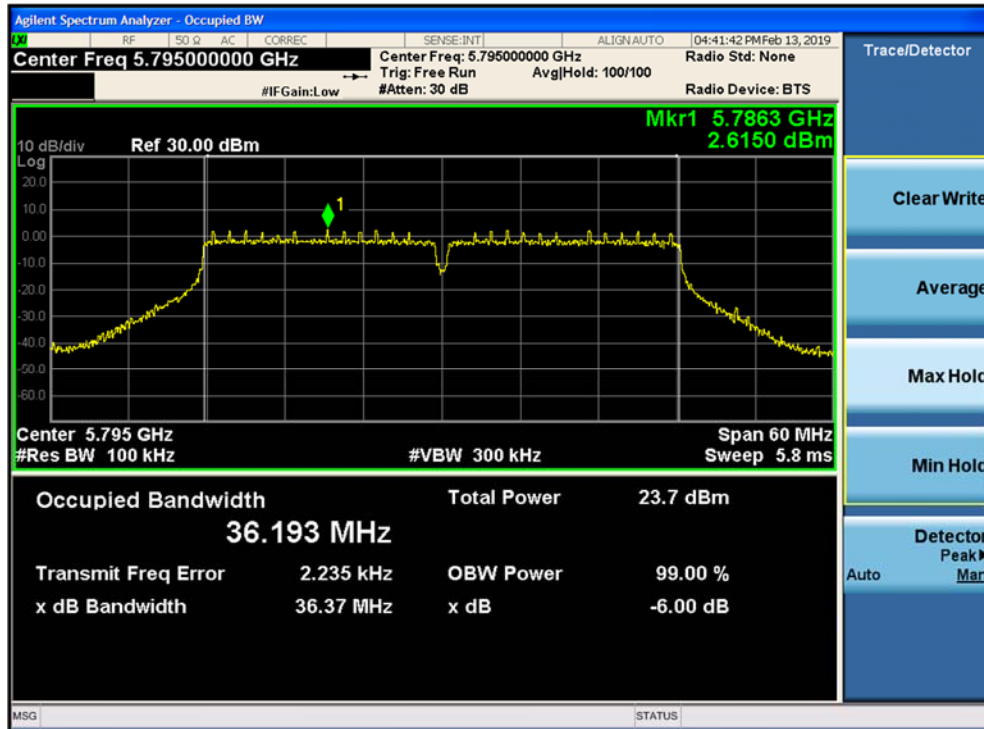


Figure 9-147 6-dB Bandwidth SISO Chain B 802.11n HT40 (Ch. 159)

9.3.5.11 MIMO Chain A 802.11n HT40 6-dB Bandwidth

MIMO Chain A 802.11n HT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.22
151	5755	36.36
159	5795	36.33



Figure 9-148. 6-dB Bandwidth MIMO Chain A 802.11n HT40 (Ch. 142)

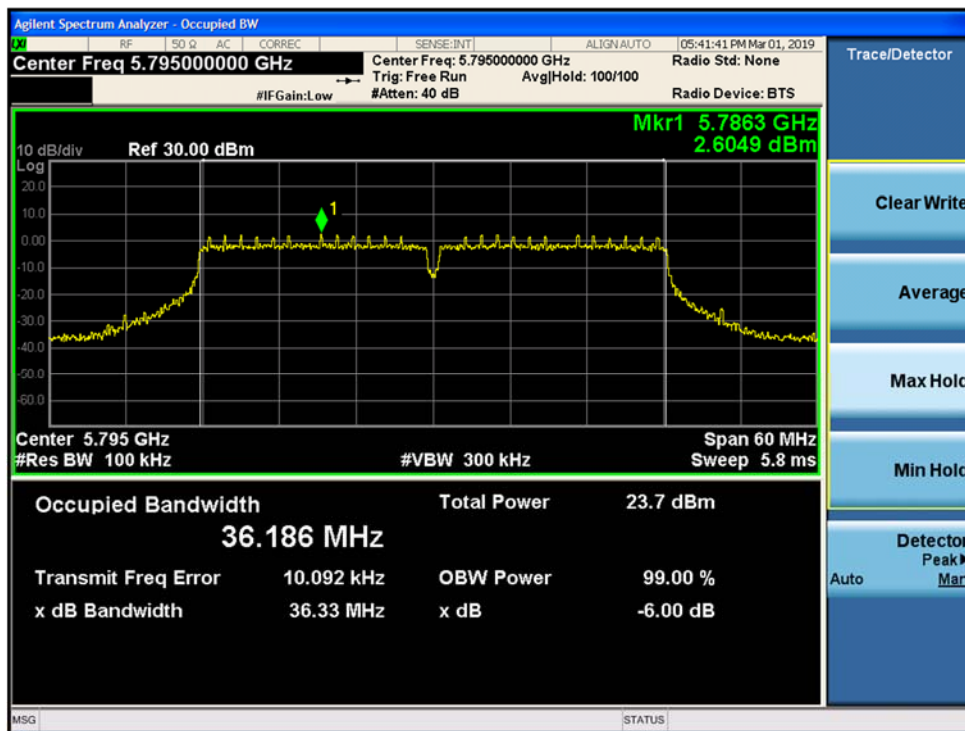


Figure 9-149. 6-dB Bandwidth MIMO Chain A 802.11n HT40 (Ch. 159)

9.3.5.12 MIMO Chain B 802.11n HT40 6-dB Bandwidth

MIMO Chain B 802.11n HT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.24
151	5755	36.38
159	5795	36.39

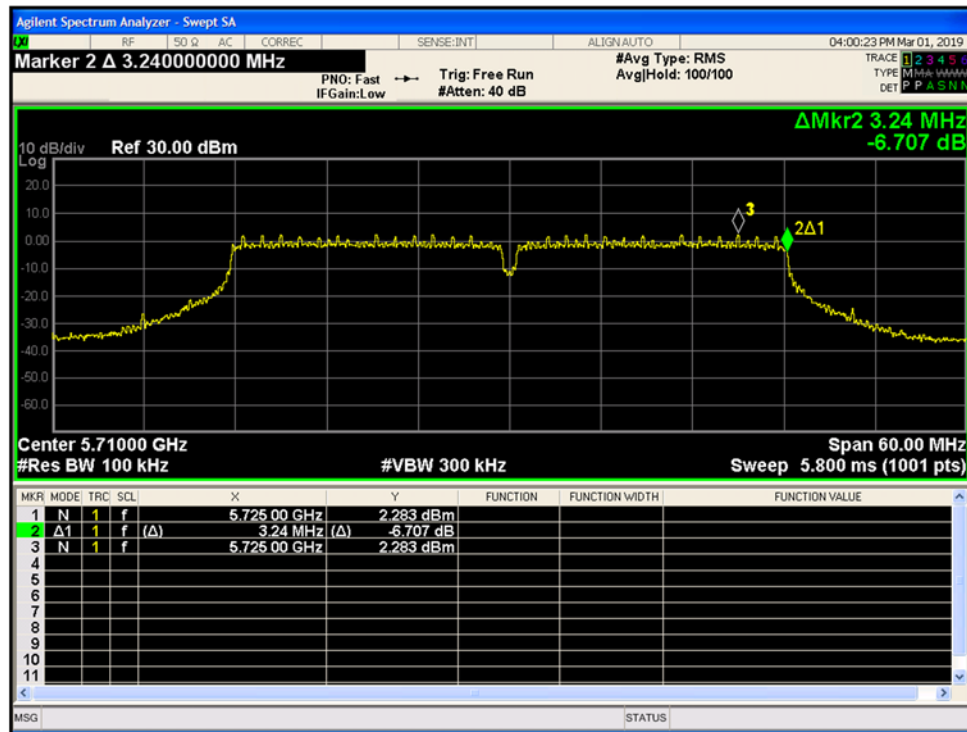


Figure 9-150. 6-dB Bandwidth MIMO Chain B 802.11n HT40 (Ch. 142)

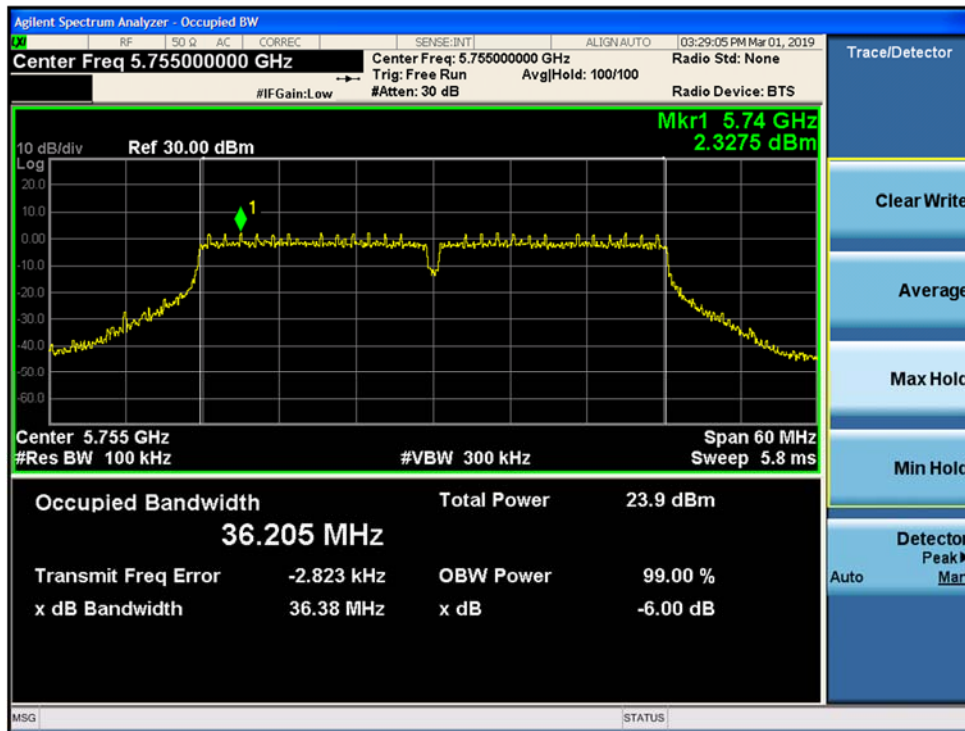


Figure 9-151. 6-dB Bandwidth MIMO Chain B 802.11n HT40 (Ch. 151)

9.3.5.13 SISO Chain A 802.11ac VHT20 6-dB Bandwidth

SISO Chain A 802.11ac VHT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.61
157	5785	17.61
165	5825	17.61

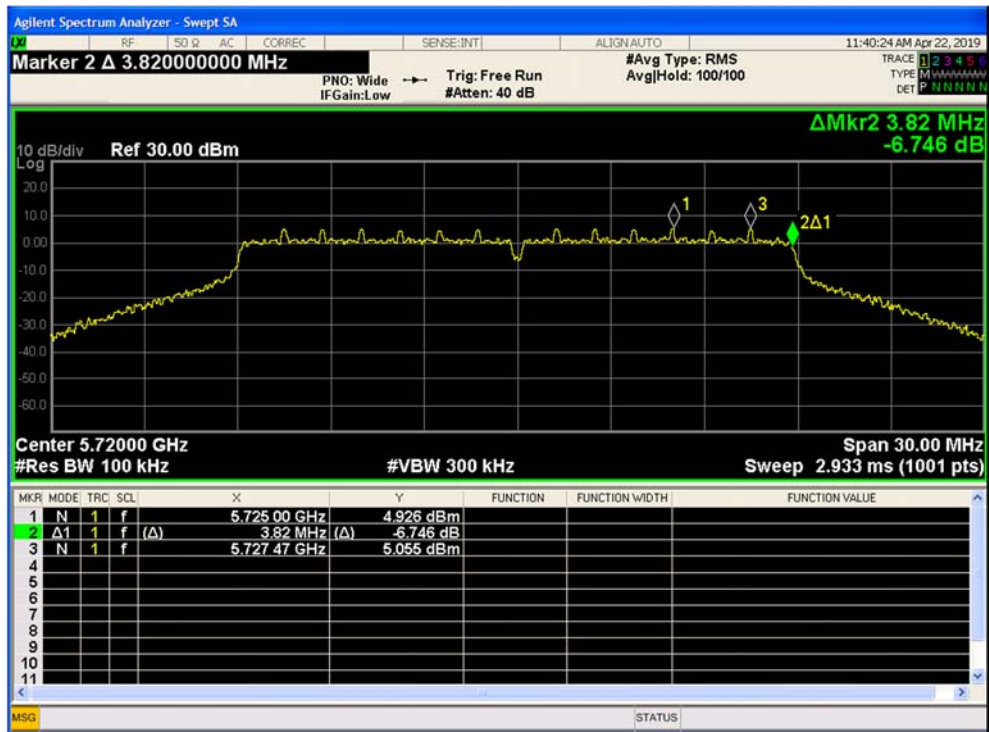


Figure 9-152. 6-dB Bandwidth SISO Chain A 802.11ac VHT20 (Ch. 144)

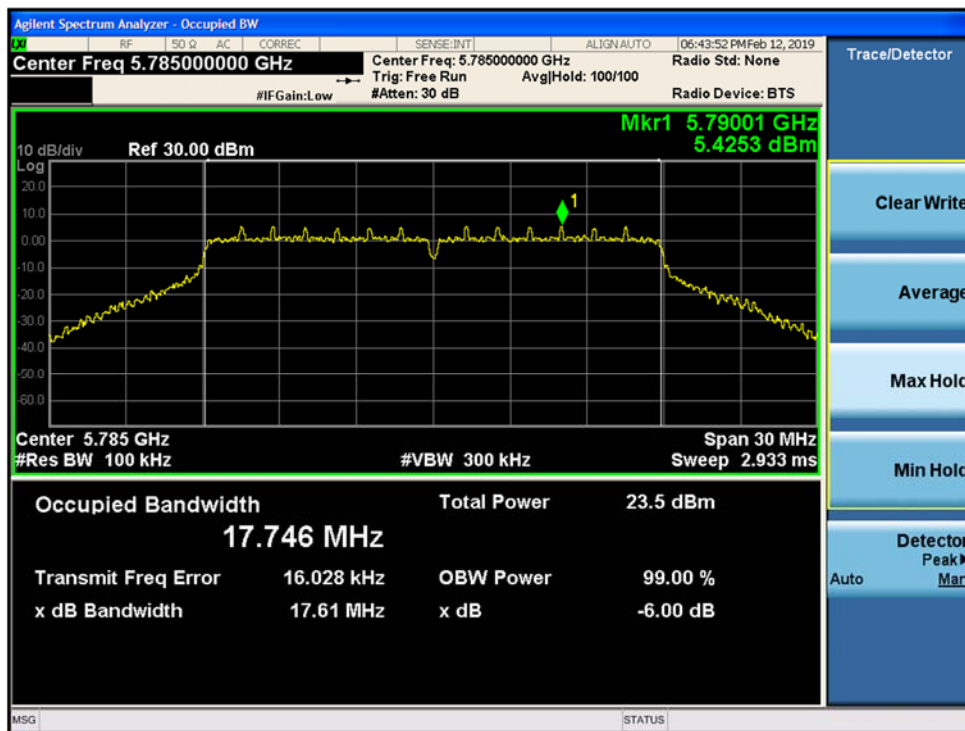


Figure 9-153. 6-dB Bandwidth SISO Chain A 802.11ac VHT20 (Ch. 157)

9.3.5.14 SISO Chain B 802.11ac VHT20 6-dB Bandwidth

SISO Chain B 802.11ac VHT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.85
149	5745	17.62
157	5785	17.62
165	5825	17.63

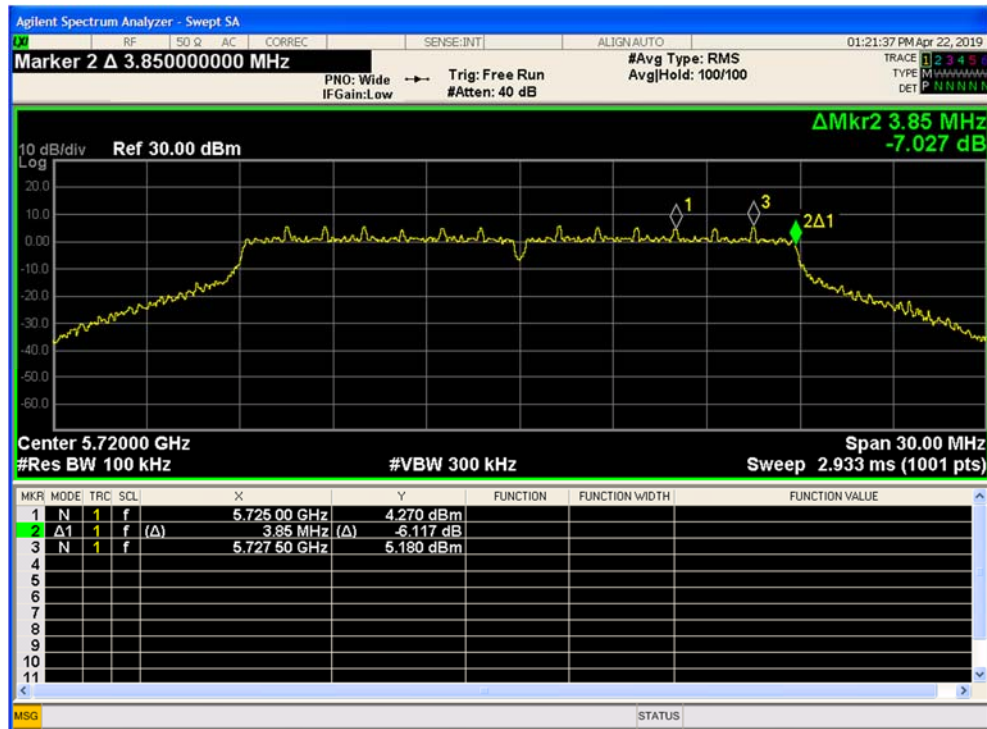


Figure 9-154. 6-dB Bandwidth SISO Chain B 802.11ac VHT20 (Ch. 144)

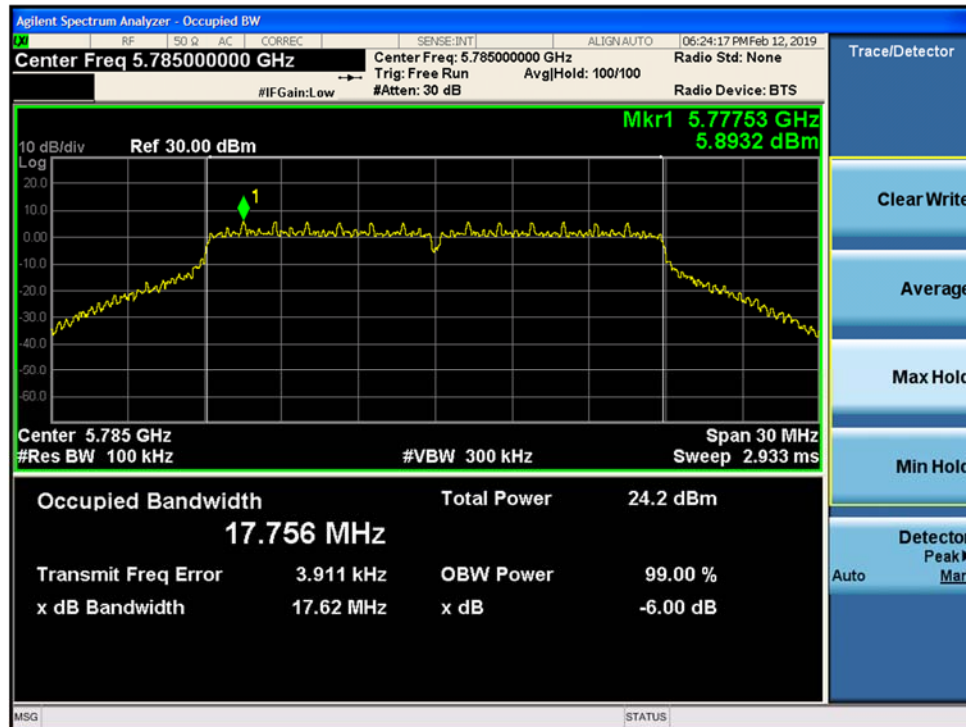


Figure 9-155. 6-dB Bandwidth SISO Chain B 802.11ac VHT20 (Ch. 157)

9.3.5.15 MIMO Chain A 802.11ac VHT20 6-dB Bandwidth

MIMO Chain A 802.11ac VHT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.61
157	5785	17.62
165	5825	17.61

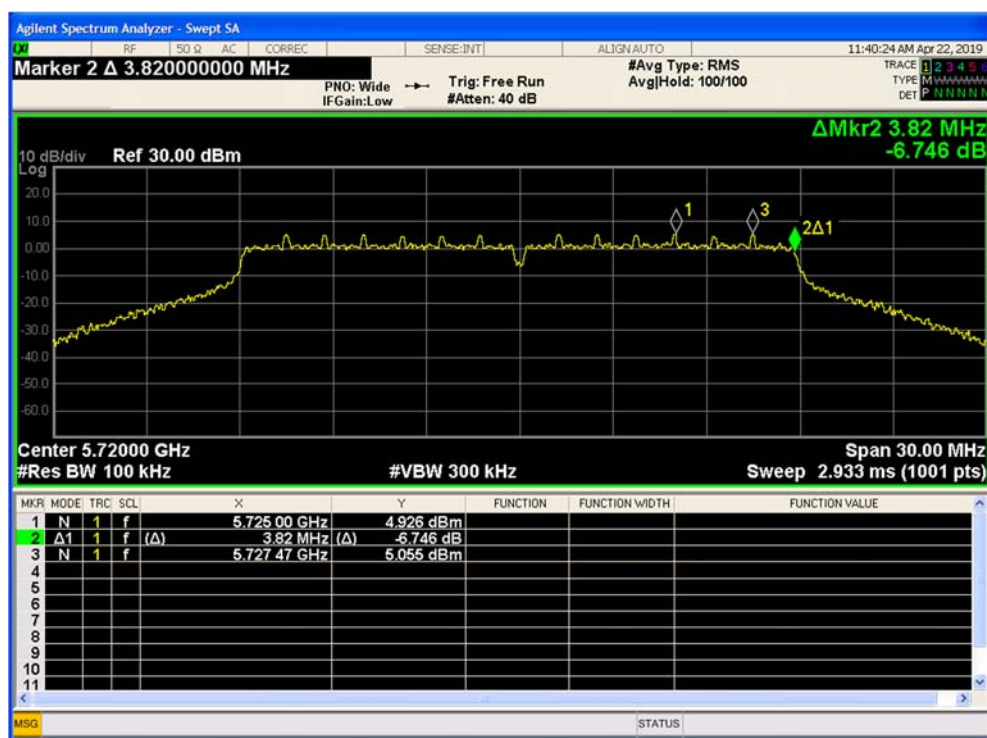


Figure 9-156. 6-dB Bandwidth MIMO Chain A 802.11ac VHT20 (Ch. 144)

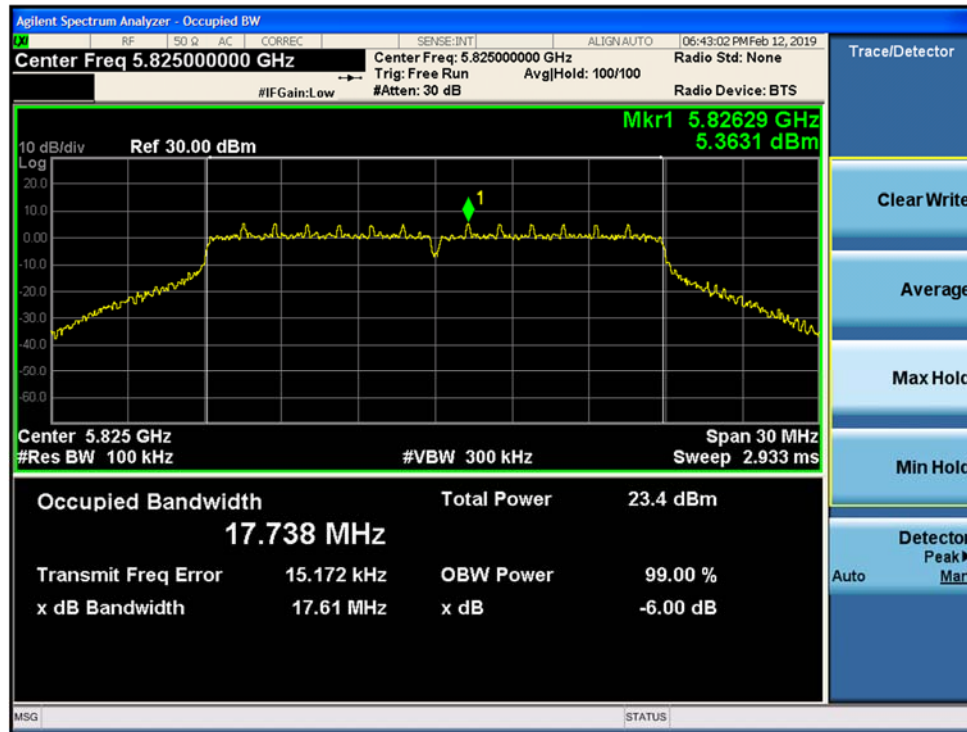


Figure 9-157. 6-dB Bandwidth MIMO Chain A 802.11ac VHT20 (Ch. 165)

9.3.5.16 MIMO Chain B 802.11ac VHT20 6-dB Bandwidth

MIMO Chain B 802.11ac VHT20 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
144	5720	3.82
149	5745	17.64
157	5785	17.63
165	5825	17.63

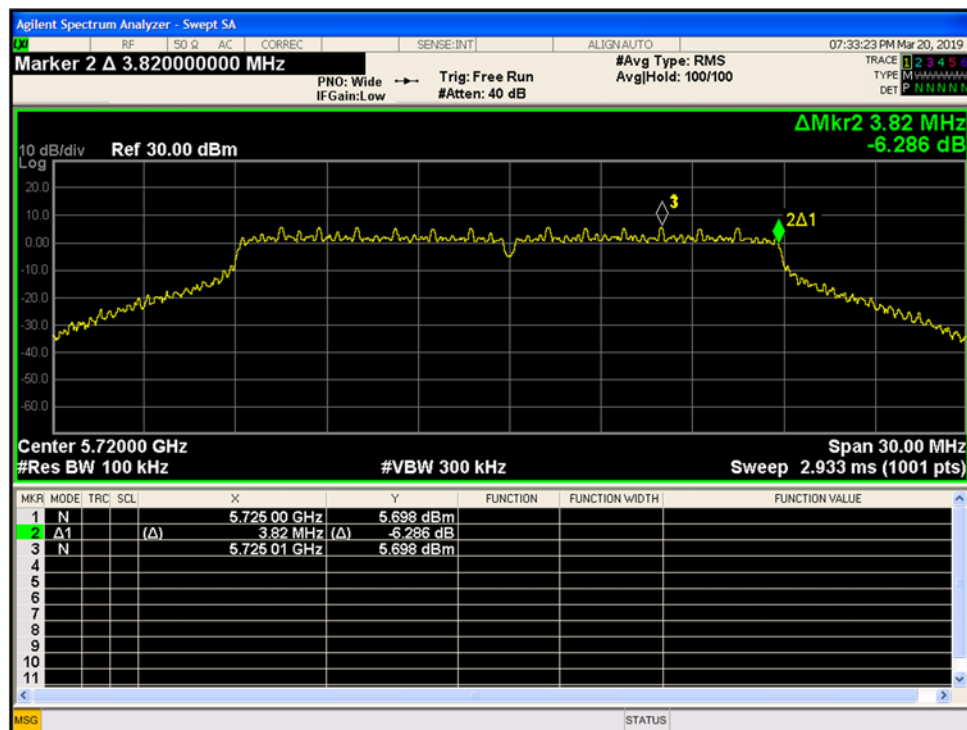


Figure 9-158. 6-dB Bandwidth MIMO Chain B 802.11ac VHT20 (Ch. 144)

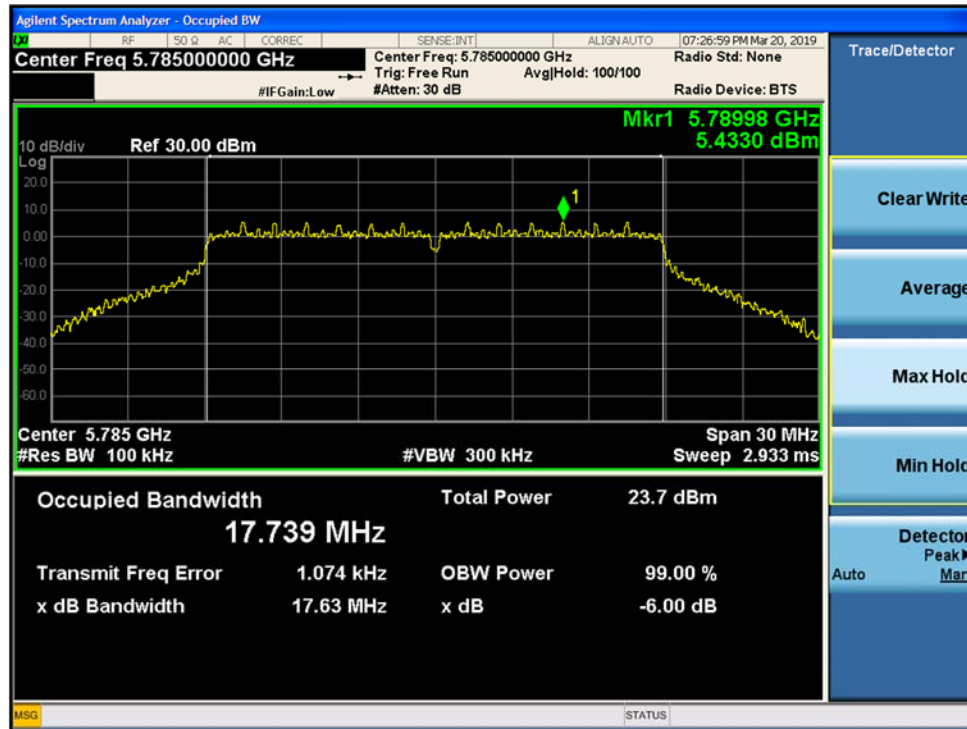


Figure 9-159. 6-dB Bandwidth MIMO Chain B 802.11ac VHT20 (Ch. 157)

9.3.5.17 SISO Chain A 802.11ac VHT40 6-dB Bandwidth

SISO Chain A 802.11ac VHT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.24
151	5755	36.38
159	5795	36.38

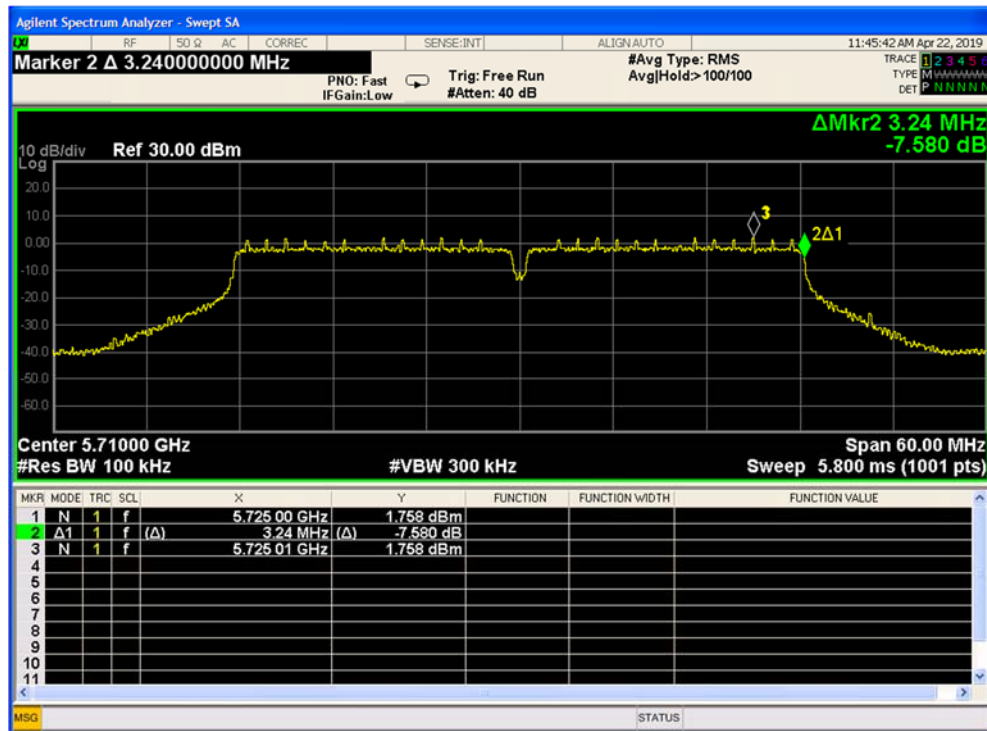


Figure 9-160. 6-dB Bandwidth SISO Chain A 802.11ac VHT40 (Ch. 142)

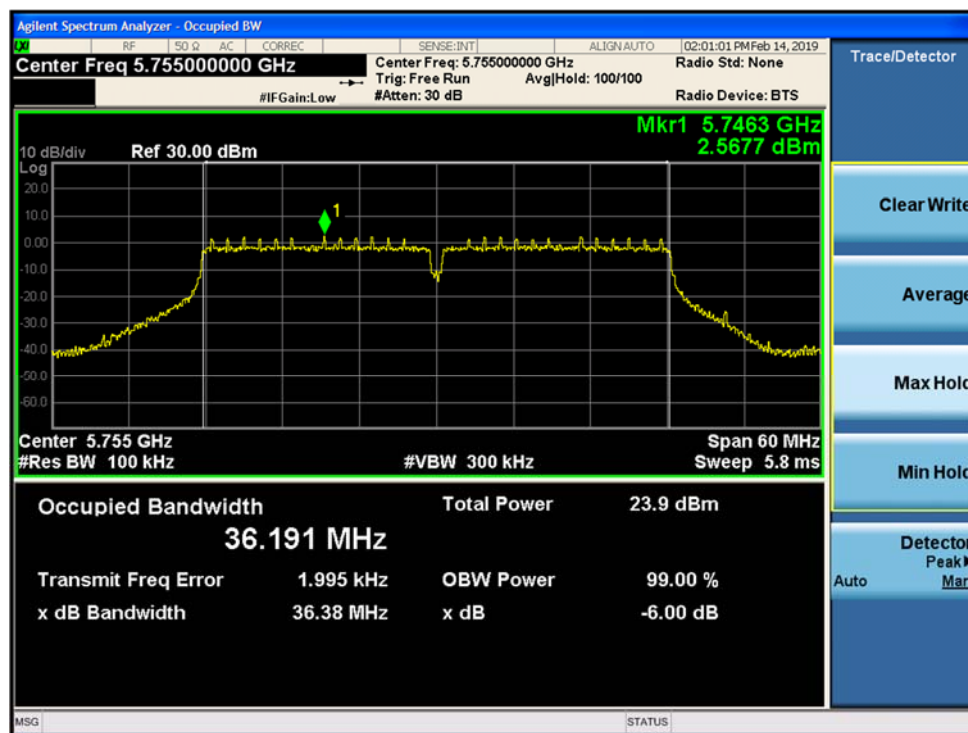


Figure 9-161. 6-dB Bandwidth SISO Chain A 802.11ac VHT40 (Ch. 151)

9.3.5.18 SISO Chain B 802.11ac VHT40 6-dB Bandwidth

SISO Chain B 802.11ac VHT40 6-dB Bandwidth		
Channel No.	Frequency (MHz)	6-dB Bandwidth (MHz)
142	5710	3.22
151	5755	36.36
159	5795	36.39