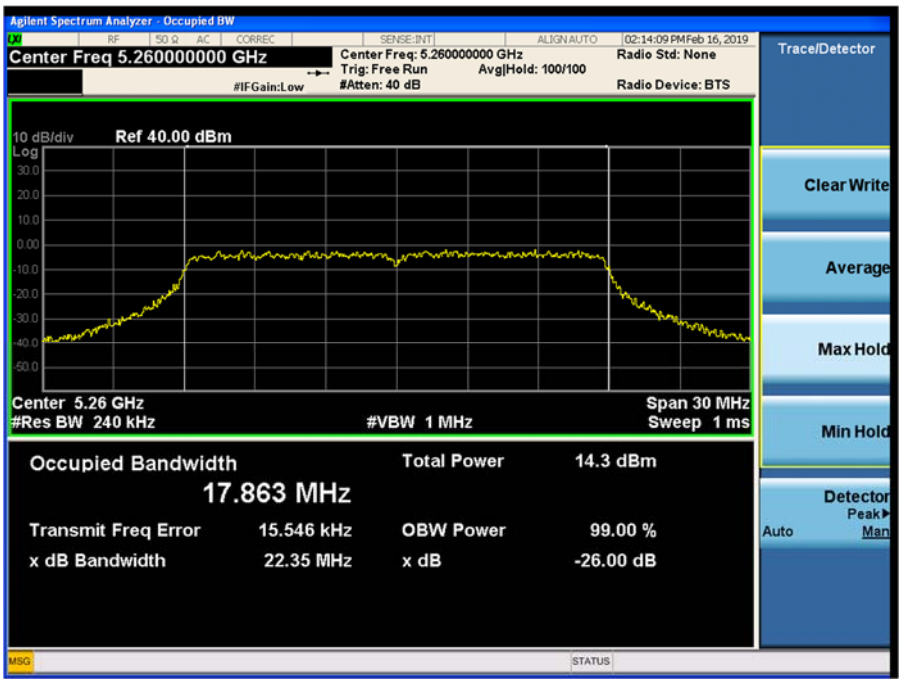
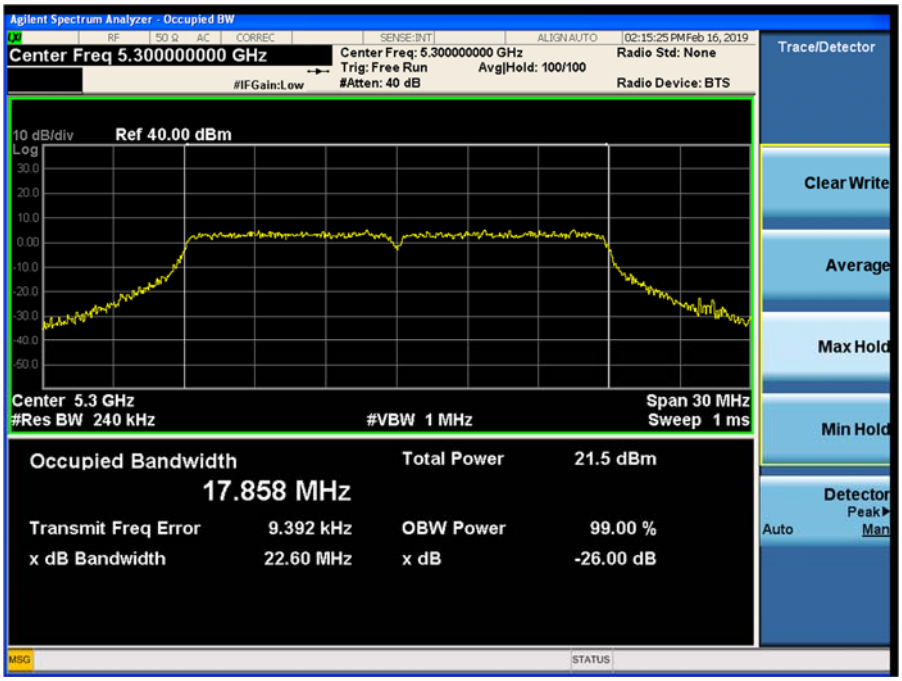


Plot 9-101 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 52)



Plot 9-102. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 60)

Plot 9-103. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 64)

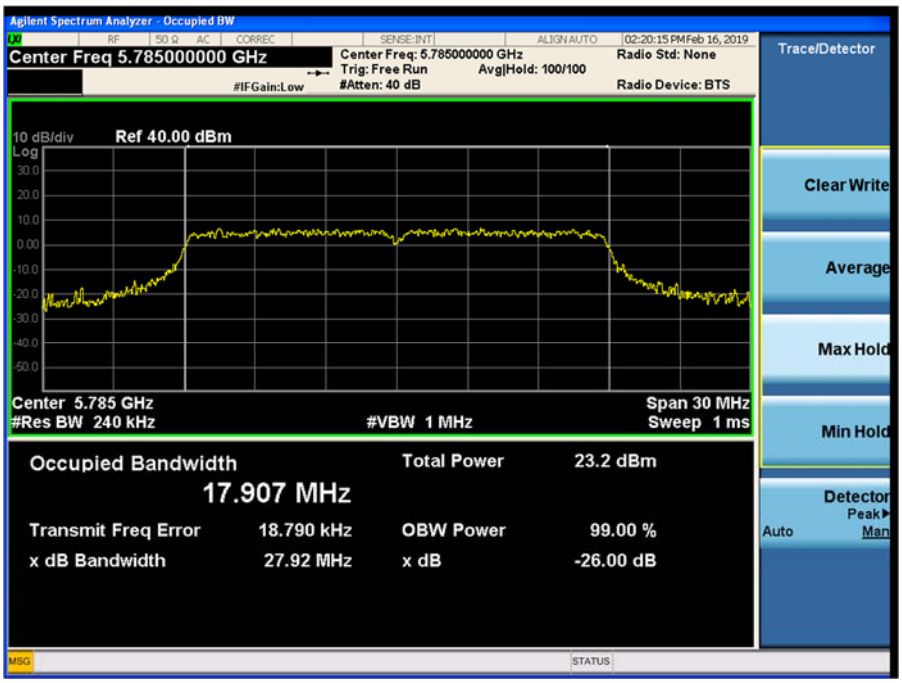
Plot 9-104. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 100)

Plot 9-105. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 116)

Plot 9-106. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 140)

Plot 9-107. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 144)

Plot 9-108. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 149)

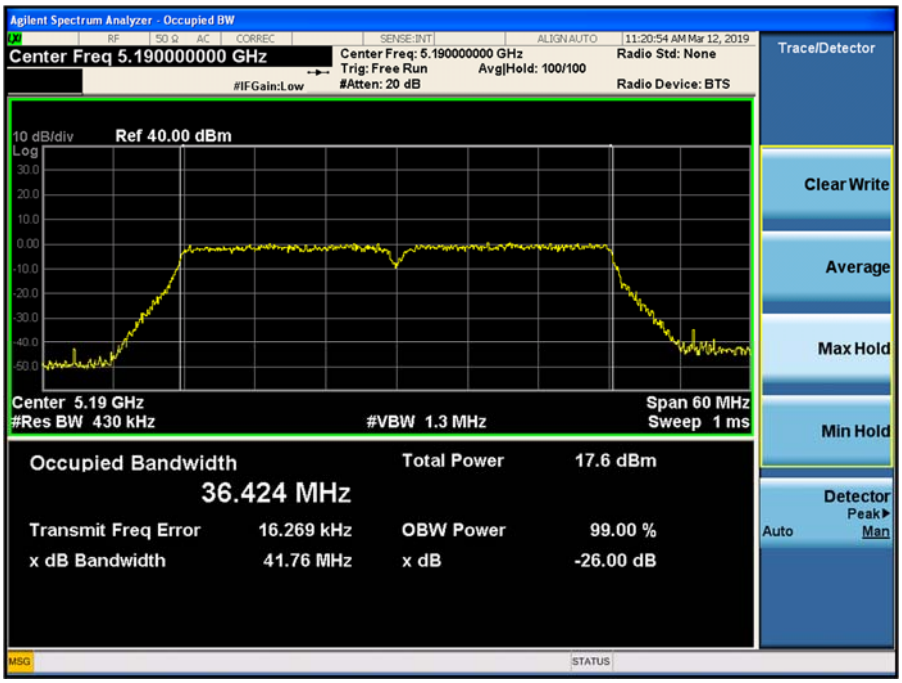


Plot 9-109. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 157)

Plot 9-110. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 20 (CH. 165)

9.3.5.9 Chain 0 802.11ac VHT40 26-dB Emission Bandwidth

Chain 0 802.11ac VHT40 26-dB Emission Bandwidth				
Band	**Channel No.**	**Frequency (MHz)**	**26-dB Emission Bandwidth (MHz)**	**99% Occupied BW (MHz)**
UNII-1	38	5190	41.76	36.42
	46	5230	41.45	36.41
UNII-2A	54	5270	41.70	36.46
	62	5310	41.61	36.40
UNII-2C	102	5510	41.99	36.44
	110	5550	41.74	36.47
	134	5670	44.90	36.44
Straddle	142	5710	44.78	36.47
UNII-3	151	5755	44.18	36.53
	159	5795	51.97	36.50

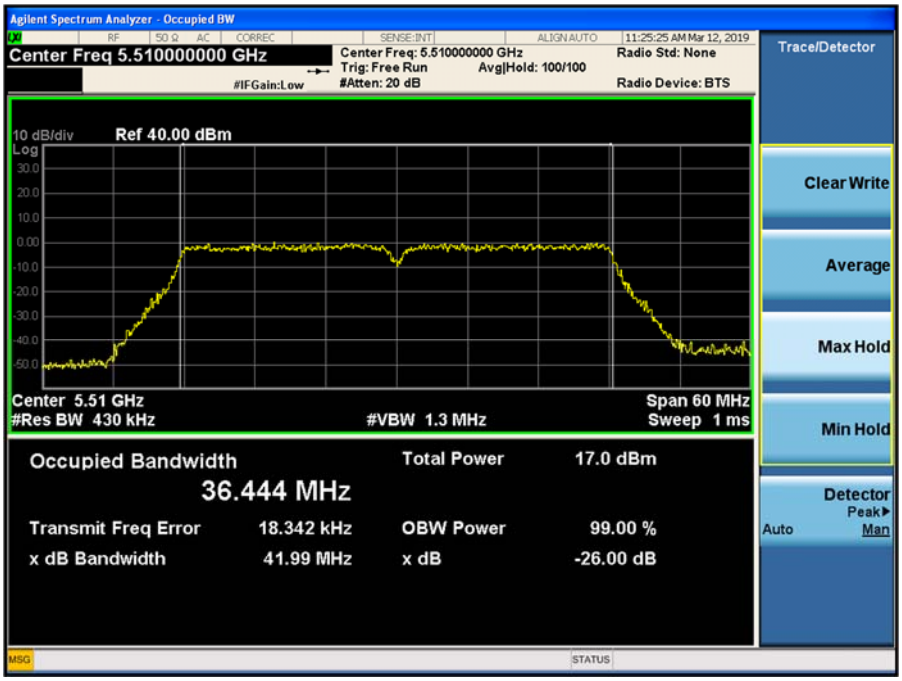


Plot 9-111. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 38)

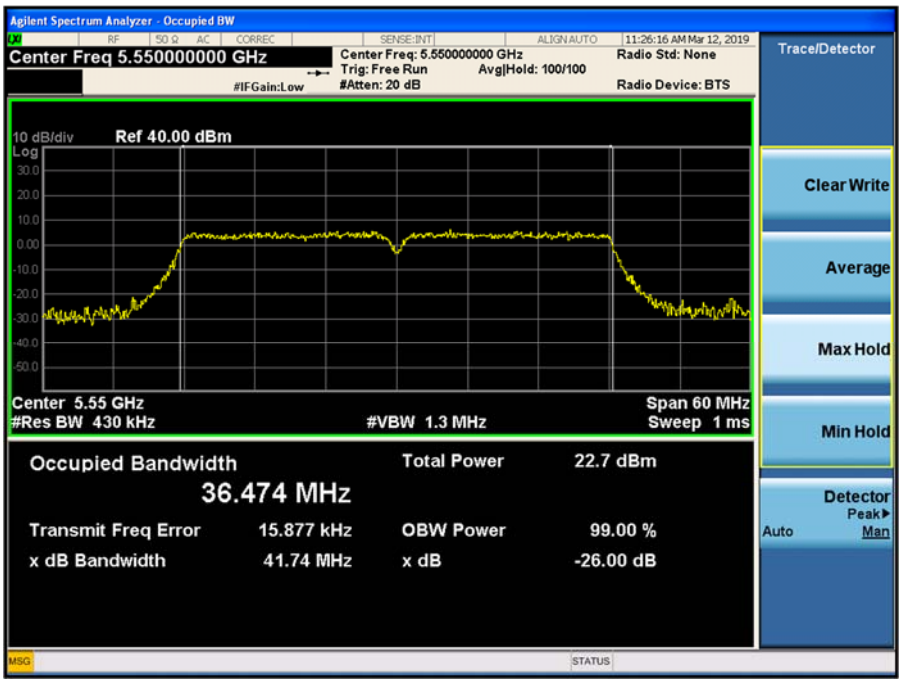
Plot 9-112. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 46)

Plot 9-113. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 54)

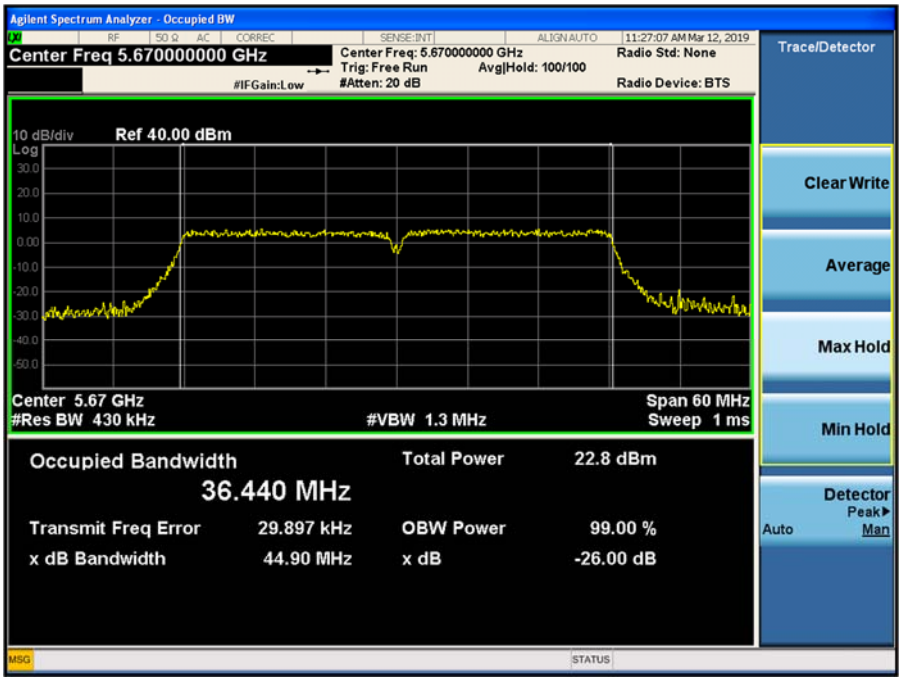
Plot 9-114. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 62)



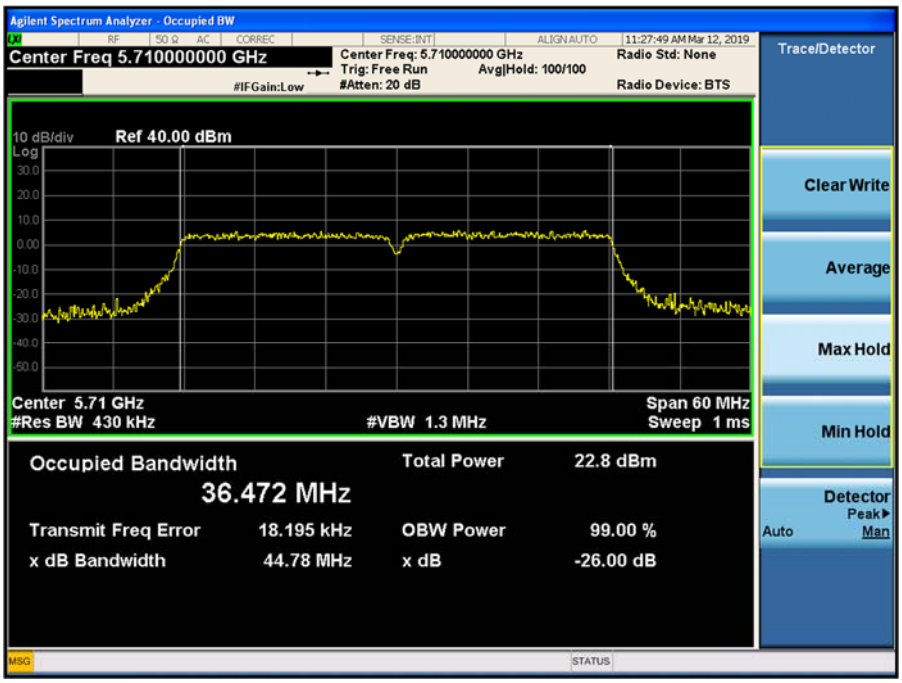
Plot 9-115. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 102)



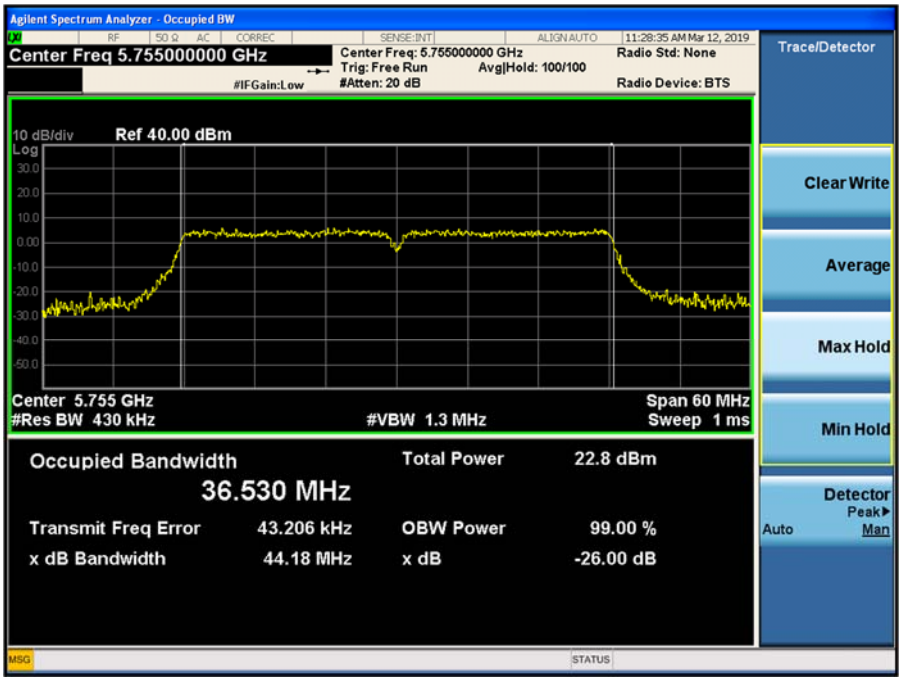
Plot 9-116. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 110)



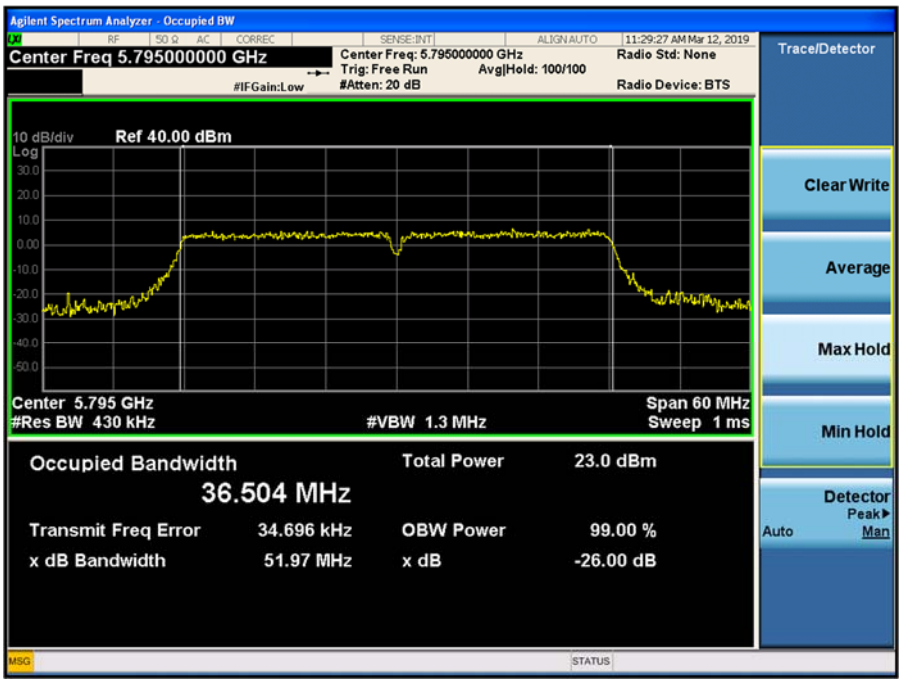
Plot 9-117. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 134)



Plot 9-118. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 142)



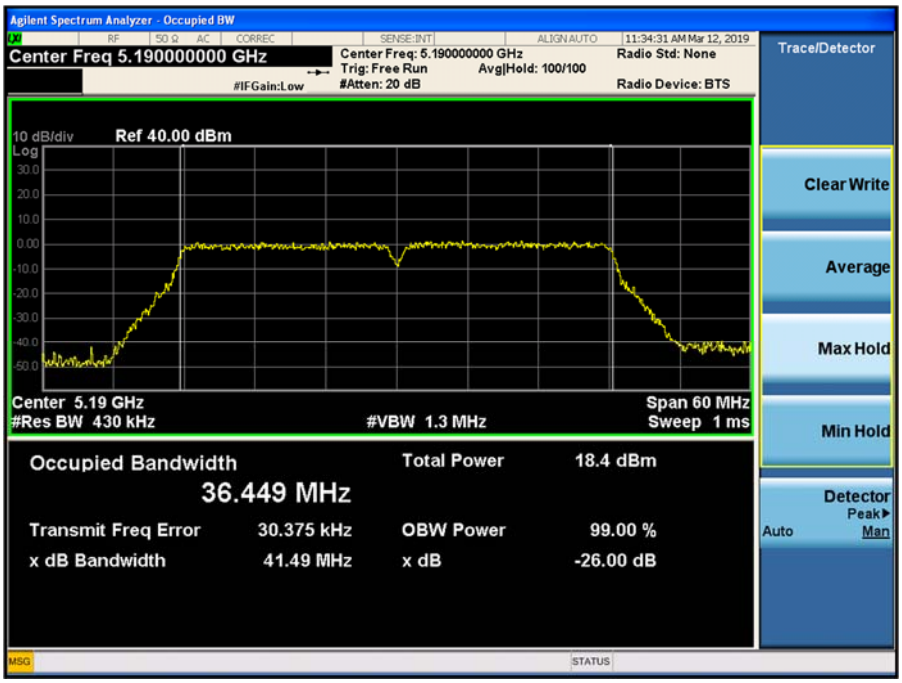
Plot 9-119. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 151)



Plot 9-120. 26dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT 40 (CH. 159)

9.3.5.10 Chain 1 802.11ac VHT40 26-dB Emission Bandwidth

Chain 1 802.11ac vHT40 26-dB Emission Bandwidth				
Band	**Channel No.**	**Frequency (MHz)**	**26-dB Emission Bandwidth (MHz)**	**99% Occupied BW (MHz)**
UNII-1	38	5190	41.49	36.45
	46	5230	41.76	36.41
UNII-2A	54	5270	42.74	36.47
	62	5310	41.79	36.36
UNII-2C	102	5510	41.70	36.44
	110	5550	44.67	36.44
	134	5670	43.34	36.44
Straddle	142	5710	42.35	36.51
UNII-3	151	5755	43.05	36.45
	159	5795	48.18	36.48

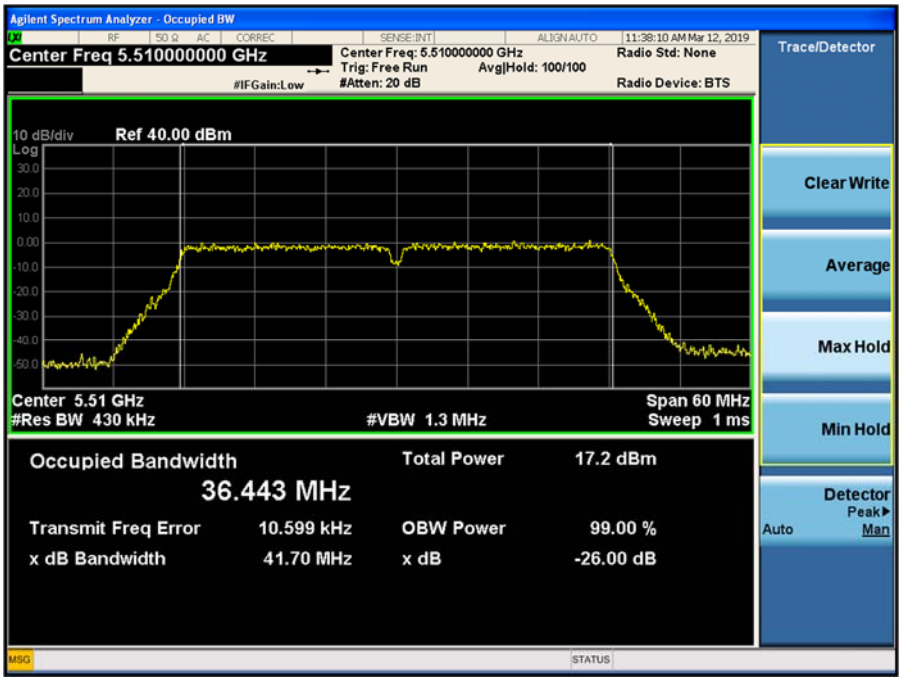


Plot 9-121. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40 (CH. 38)

Plot 9-122. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40 (CH. 46)

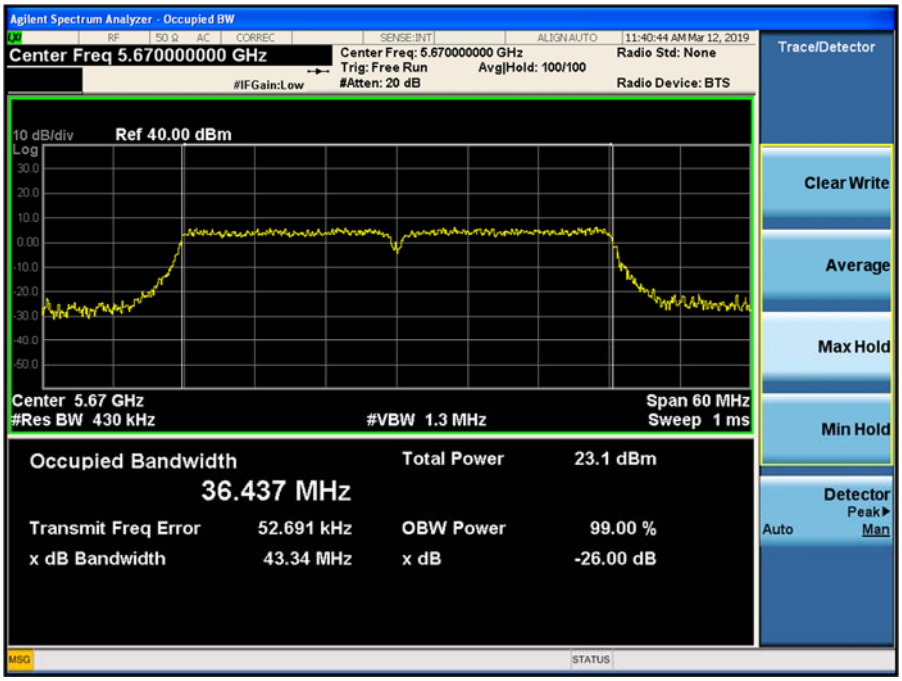
Plot 9-123. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40 (CH. 54)

Plot 9-124. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40 (CH. 62)

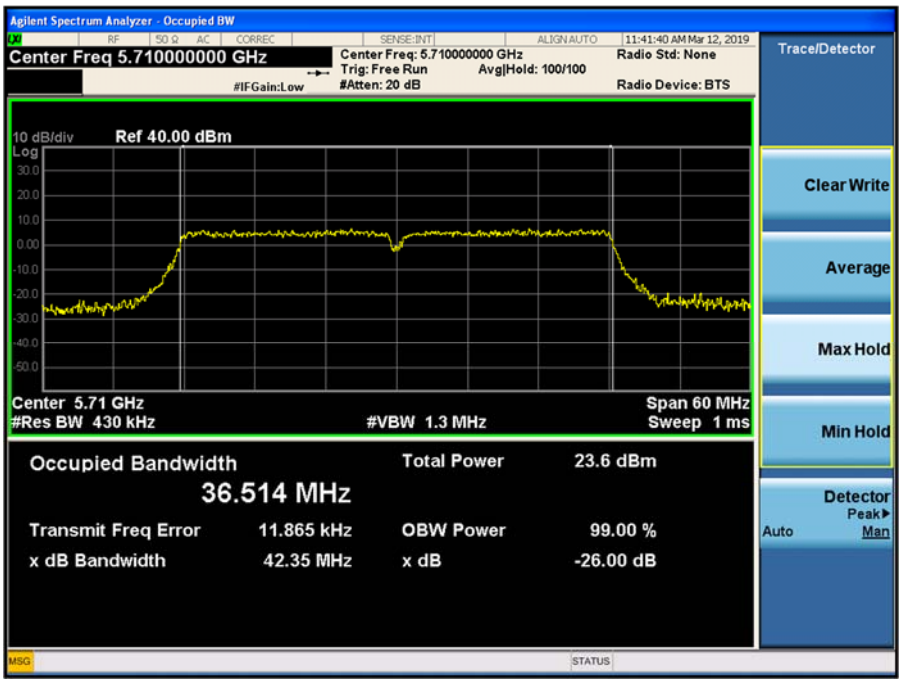


Plot 9-125. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.102)

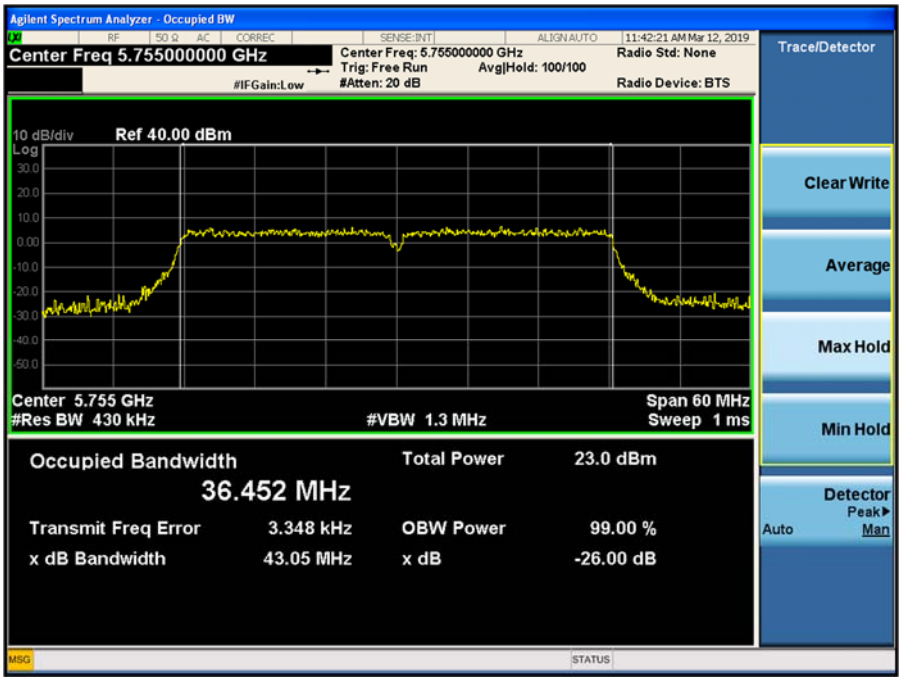
Plot 9-126. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.110)



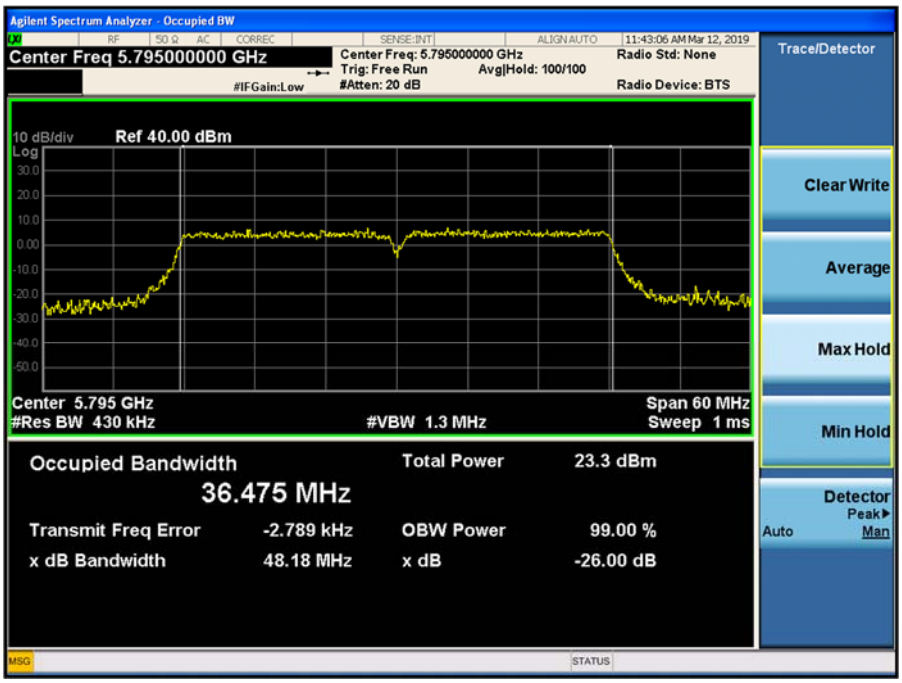
Plot 9-127. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.134)



Plot 9-128. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.142)



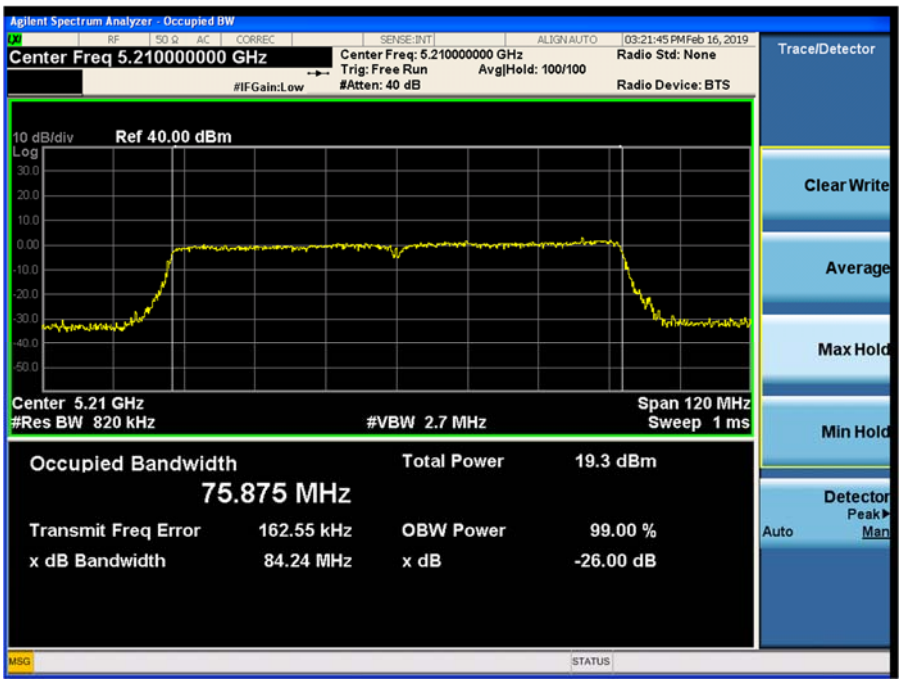
Plot 9-129. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.151)



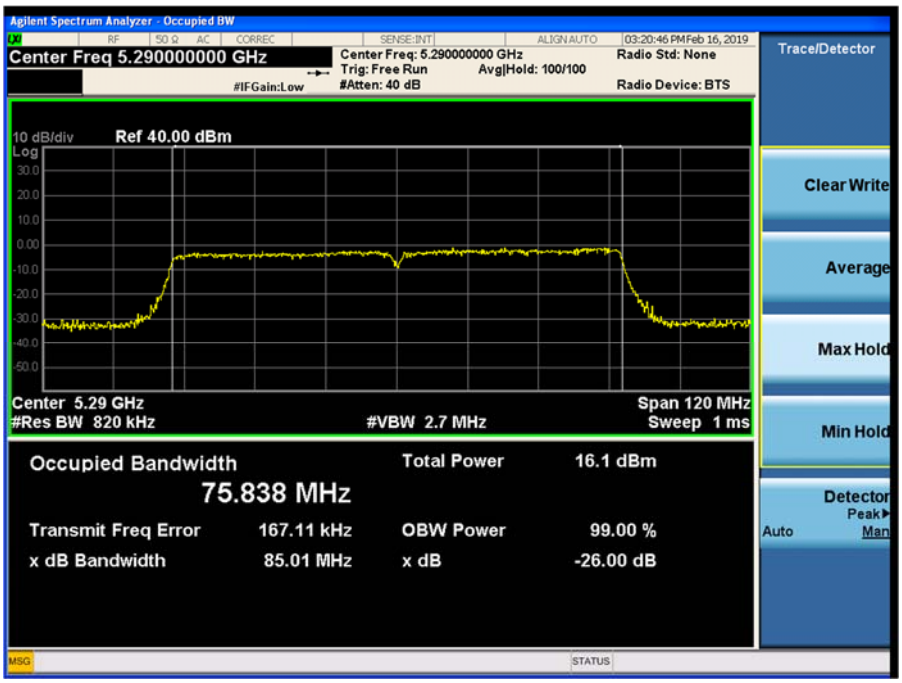
Plot 9-130. 26dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT 40(CH.159)

9.3.5.11 Chain 0 802.11ac VHT80 26-dB Emission Bandwidth

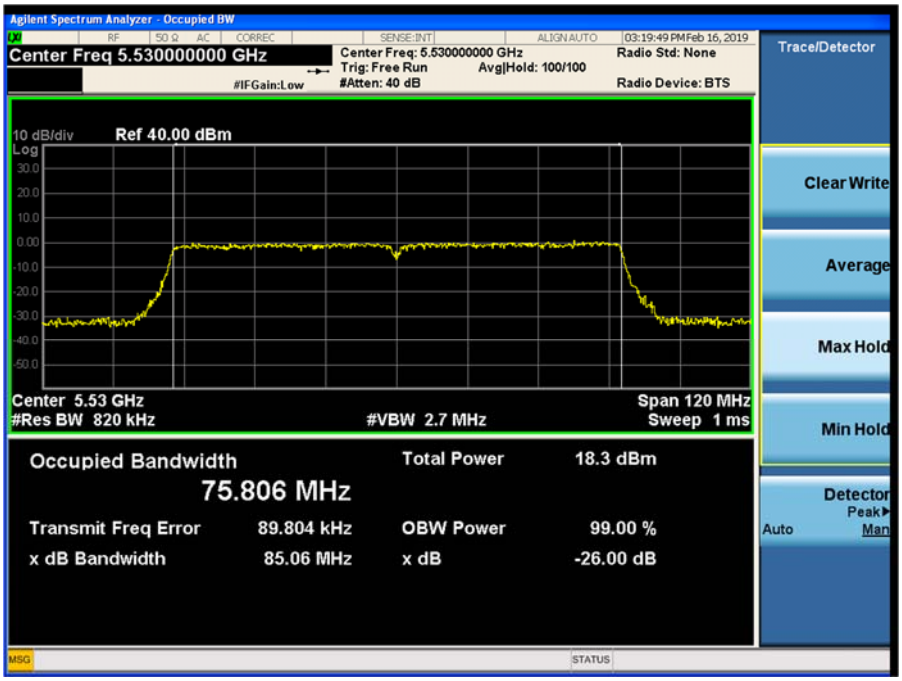
Chain 0 802.11ac VHT80 26-dB Emission Bandwidth				
Band	**Channel No.**	**Frequency (MHz)**	**26-dB Emission Bandwidth (MHz)**	**99% Occupied BW (MHz)**
UNII-1	42	5210	84.24	75.88
UNII-2A	58	5290	85.01	75.84
UNII-2C	106	5530	85.06	75.81
	122	5610	90.66	75.99
Straddle	138	5690	86.68	75.99
UNII-3	155	5775	97.53	75.99



Plot 9-131. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 42)

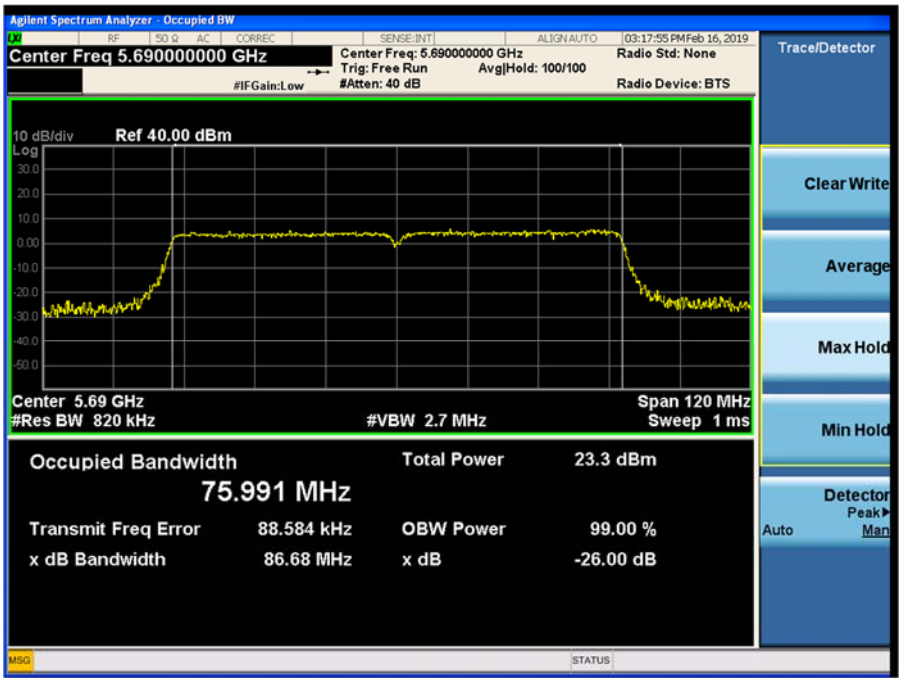


Plot 9-132. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 58)

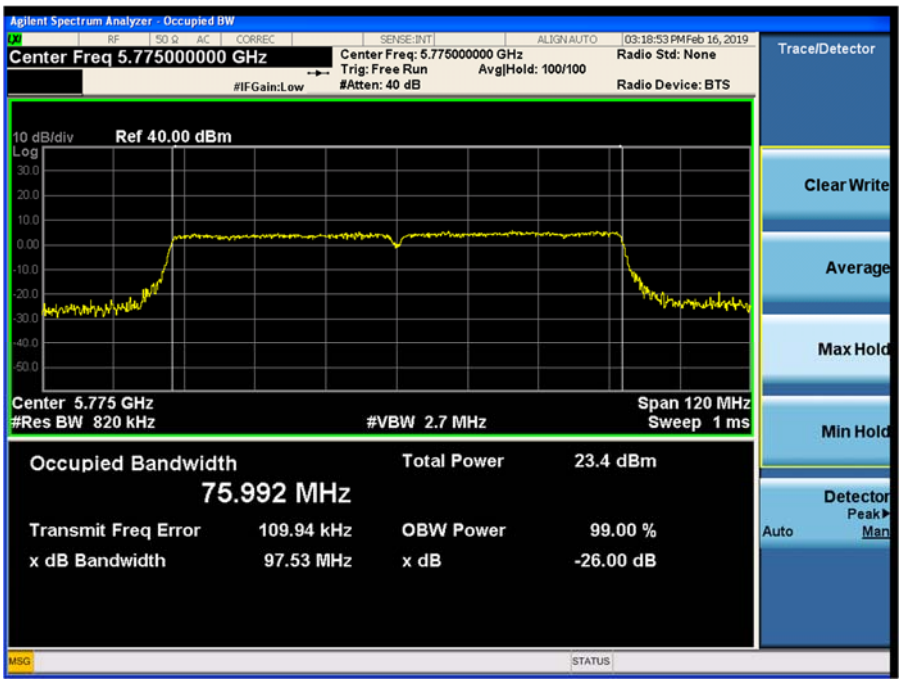


Plot 9-133. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 106)

Plot 9-134. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 122)



Plot 9-135. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 138)

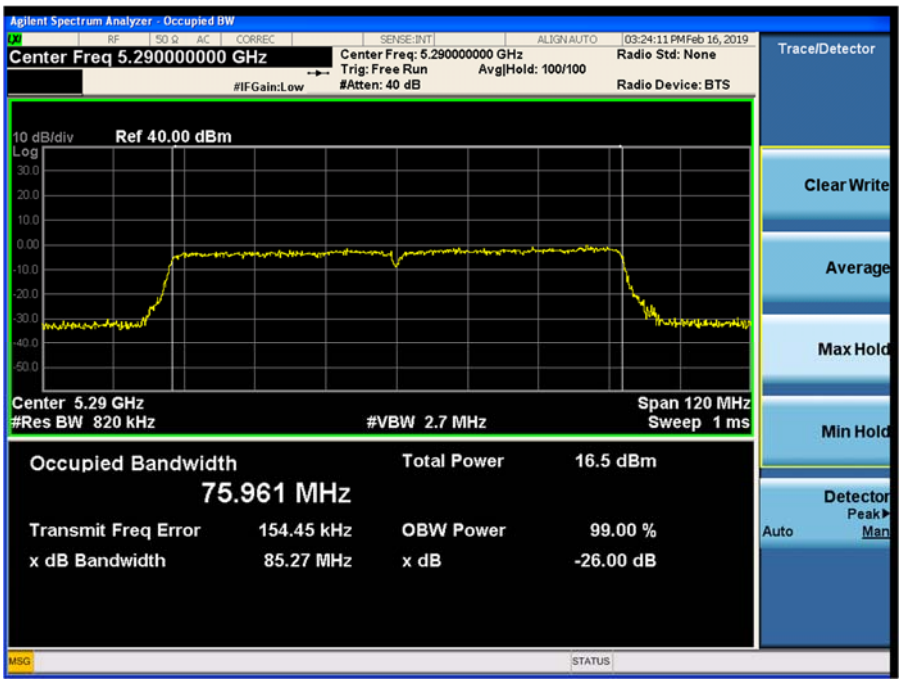


Plot 9-136. 26-dB Emission Bandwidth and 99% OBW Chain 0 802.11ac VHT80 (Ch. 155)

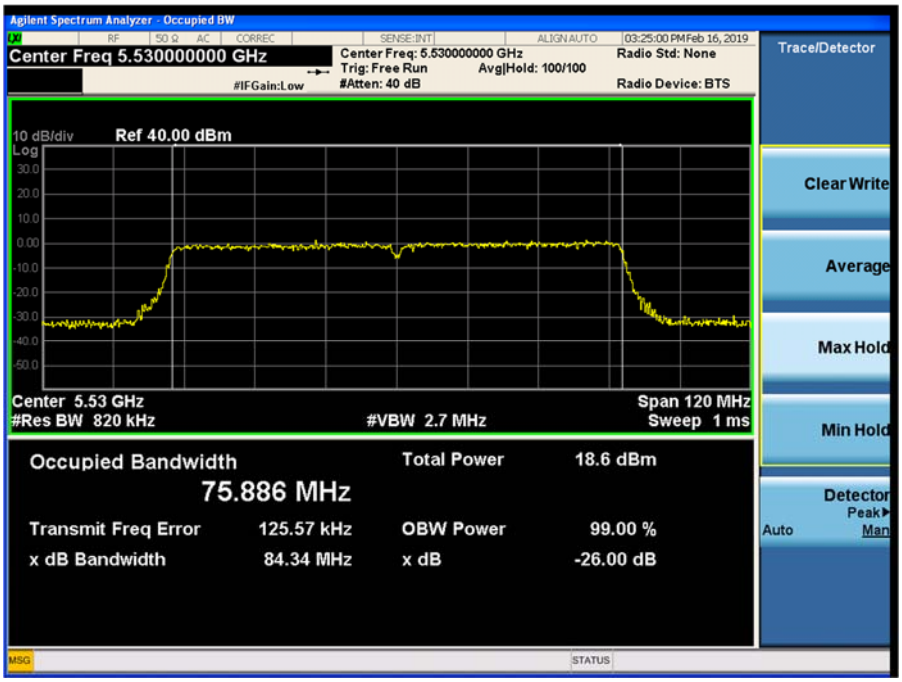
9.3.5.12 Chain 1 802.11ac VHT80 26-dB Emission Bandwidth

Chain 1 802.11ac VHT80 26-dB Emission Bandwidth				
Band	**Channel No.**	**Frequency (MHz)**	**26-dB Emission Bandwidth (MHz)**	**99% Occupied BW (MHz)**
UNII-1	42	5210	84.33	75.79
UNII-2A	58	5290	85.27	75.96
UNII-2C	106	5530	84.34	75.89
	122	5610	83.50	76.01
Straddle	138	5690	85.03	75.94
UNII-3	155	5775	90.56	75.98

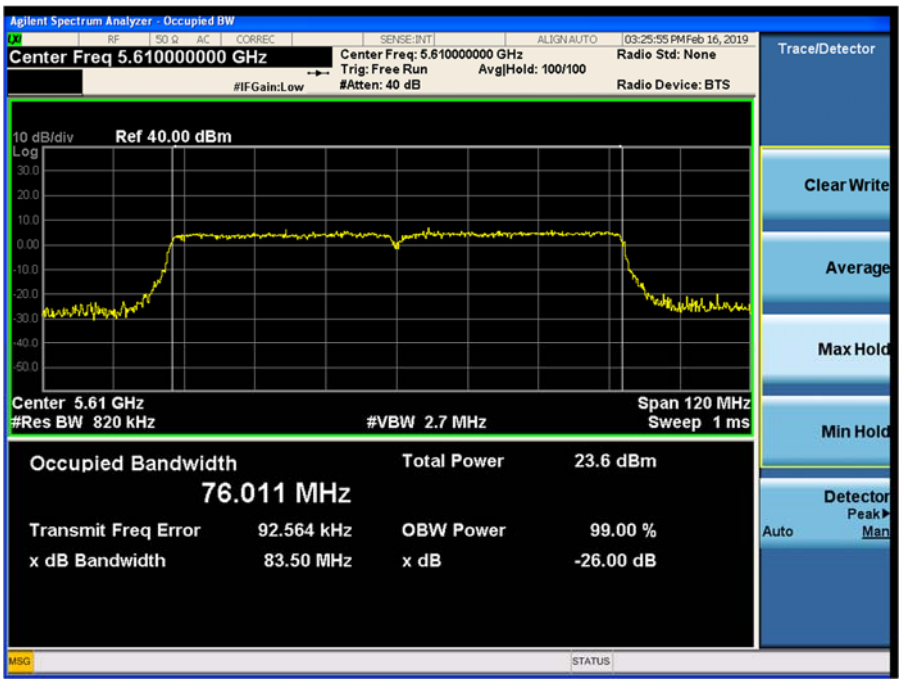
Plot 9-137. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 42)



Plot 9-138. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 58)

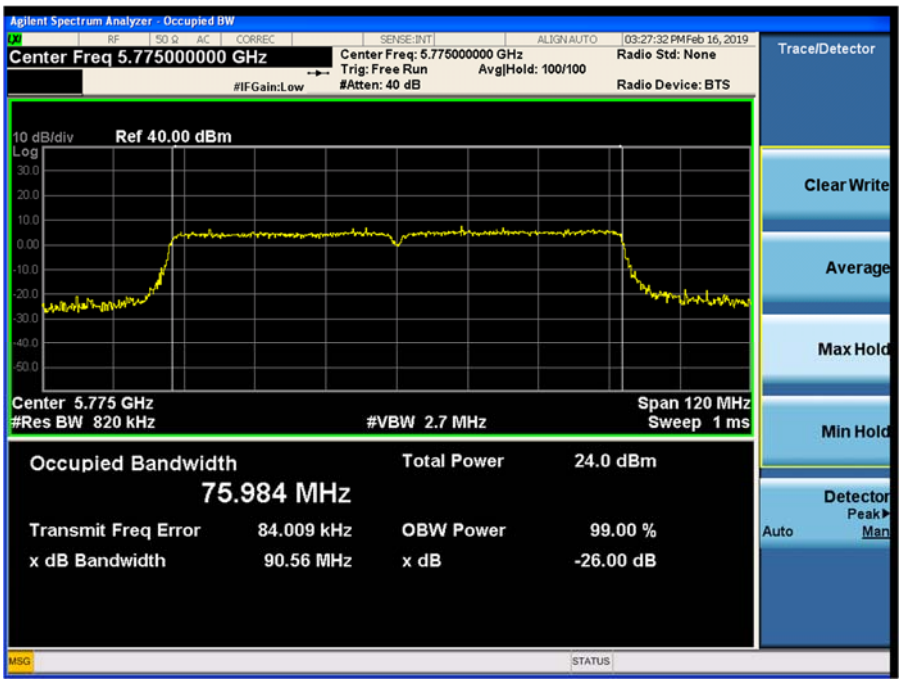


Plot 9-139. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 106)



Plot 9-140. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 122)

Plot 9-141. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 138)



Plot 9-142. 26-dB Emission Bandwidth and 99% OBW Chain 1 802.11ac VHT80 (Ch. 155)

9.4 6-dB Bandwidth

9.4.1 Test Requirement:

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

9.4.2 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 ≥ 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.

Sample Calculation:

Corrected Amplitude: Amplitude (Analyzer level) + CL (Cable losses) = -25 dBm + 5 dB = -20dBm.

9.4.3 Limits:

The 6-dB Bandwidth shall be ≥ 500 kHz.

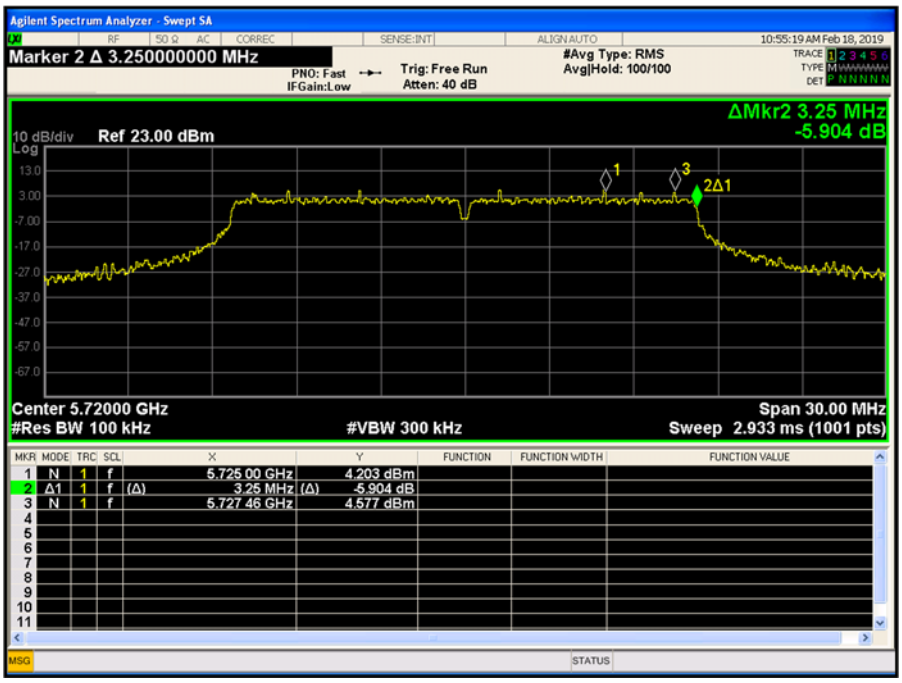
9.4.4 Test Results:

Pass

9.4.5 Test Data:

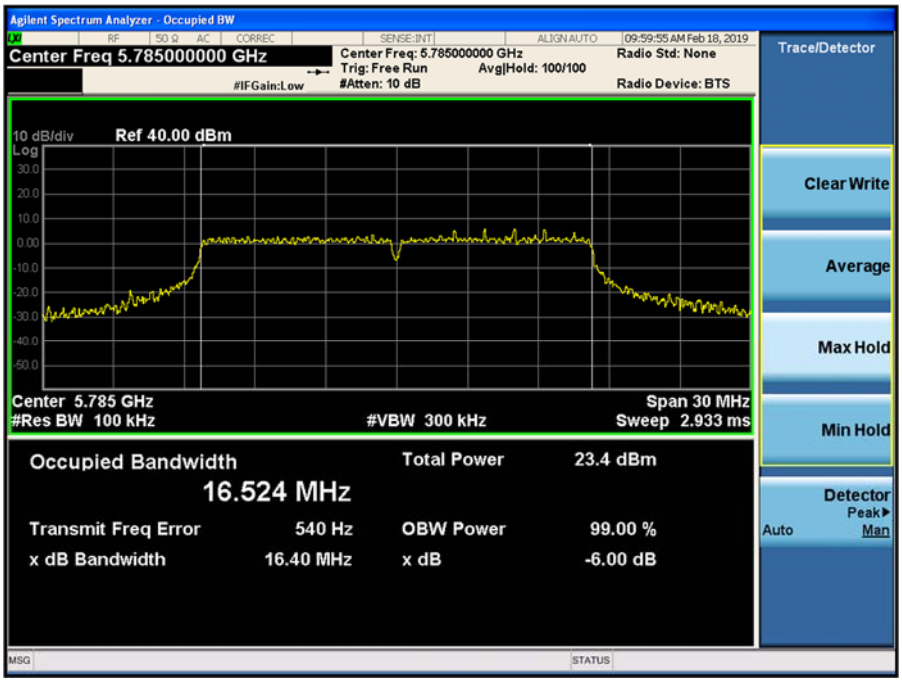
9.4.5.1 Chain 0 802.11a 6-dB Bandwidth

Chain 0 802.11a 6-dB Bandwidth		
Channel No.	**Frequency (MHz)**	**6-dB Bandwidth (MHz)**
144	5720	3.25
149	5745	16.41
157	5785	16.40
165	5825	16.35

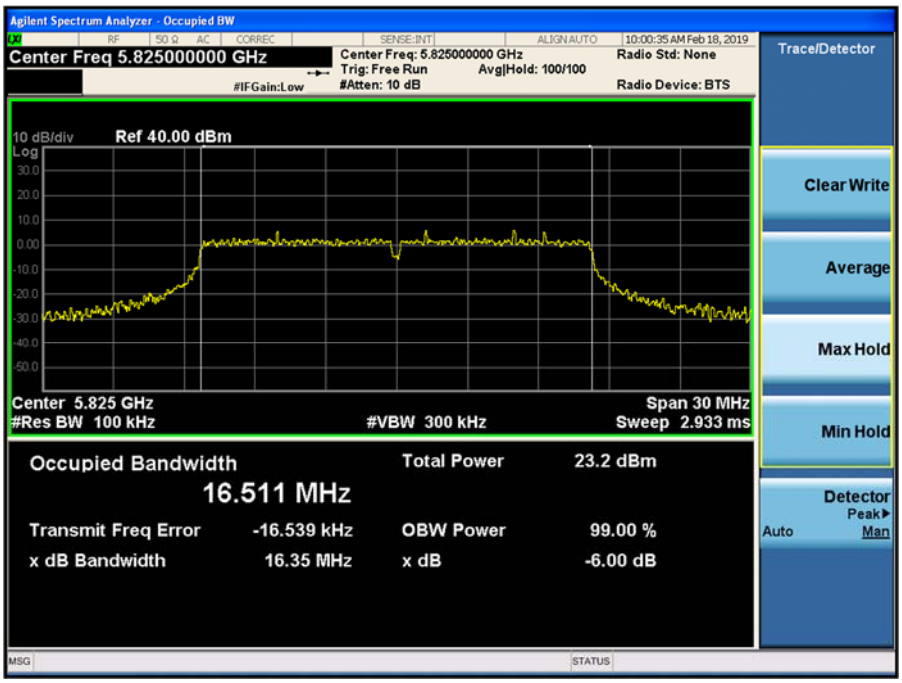


Plot 9-143. 6-dB Bandwidth Chain 0 802.11a (Ch. 144)

Plot 9-144. 6-dB Bandwidth Chain 0 802.11a (Ch. 149)



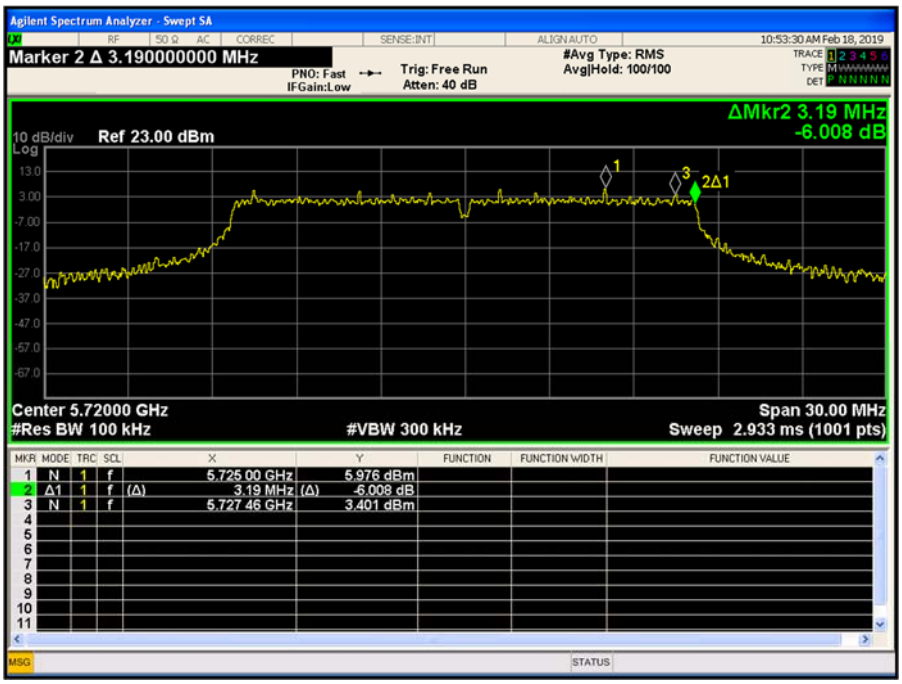
Plot 9-145. 6-dB Bandwidth Chain 0 802.11a (Ch. 157)



Plot 9-146. 6-dB Bandwidth Chain 0 802.11a (Ch. 165)

9.4.5.2 Chain 1 802.11a 6-dB Bandwidth

Chain 1 802.11a 6-dB Bandwidth		
Channel No.	**Frequency (MHz)**	**6-dB Bandwidth (MHz)**
144	5720	3.19
149	5745	16.40
157	5785	16.42
165	5825	16.41



Plot 9-147. 6-dB Bandwidth Chain 1 802.11a (Ch. 144)