

# KCTL Inc.

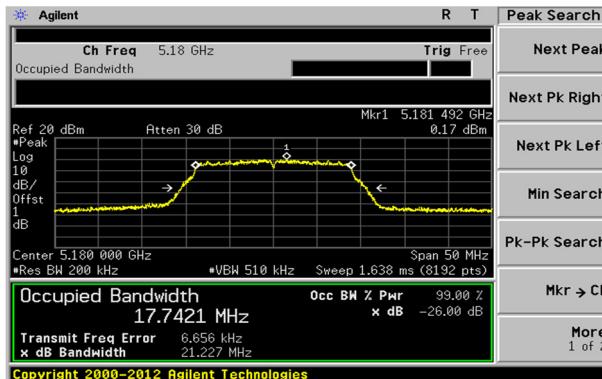
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR20-SRF0044

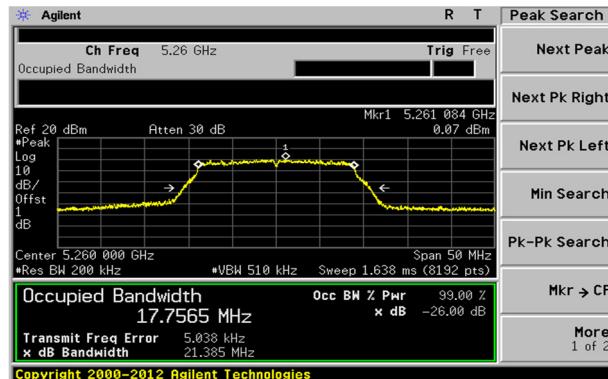
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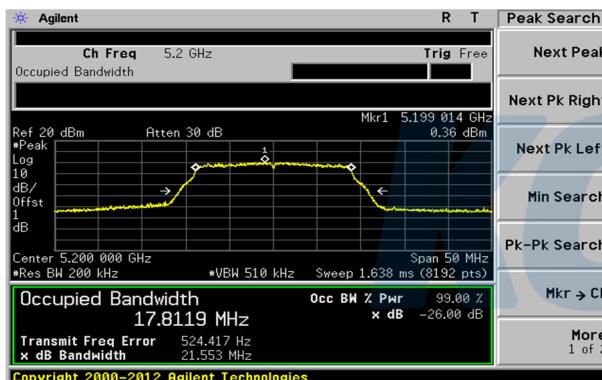
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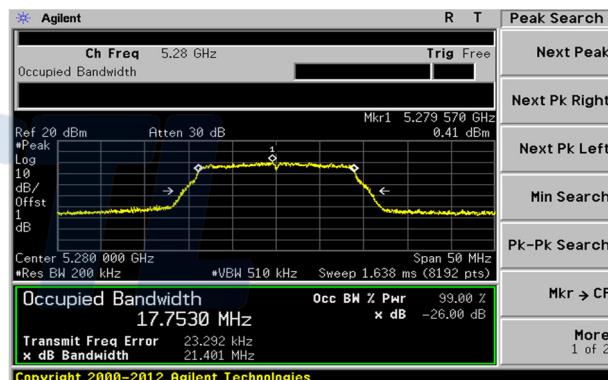
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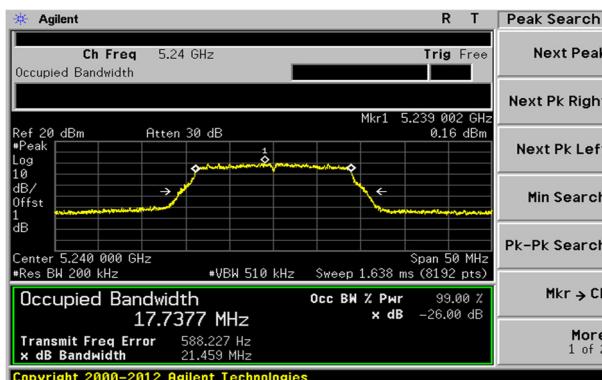
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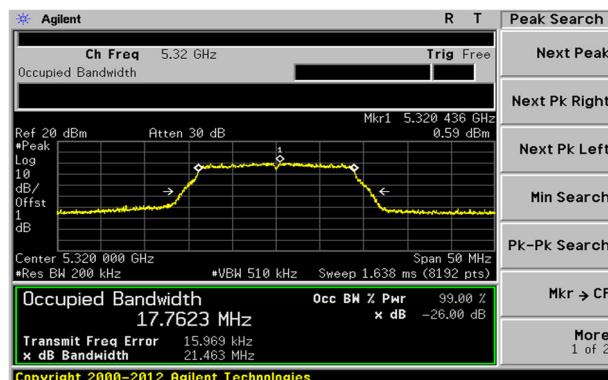
## UNII-2A / 802.11ac VHT20 / Mid ch.



## UNII-1 / 802.11ac VHT20 / High ch.



## UNII-2A / 802.11ac VHT20 / High ch.



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KCTL-TIR001-003/2

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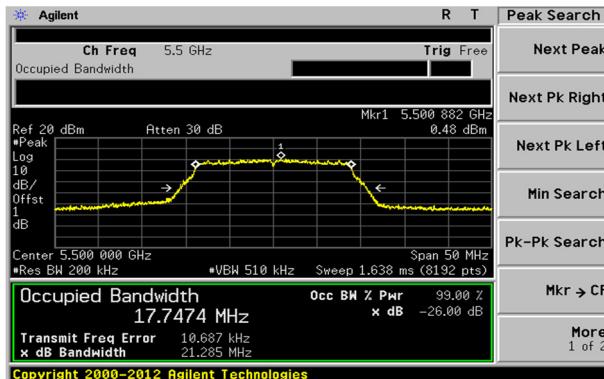
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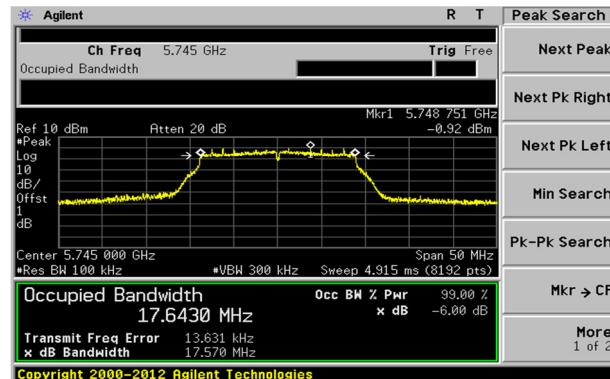
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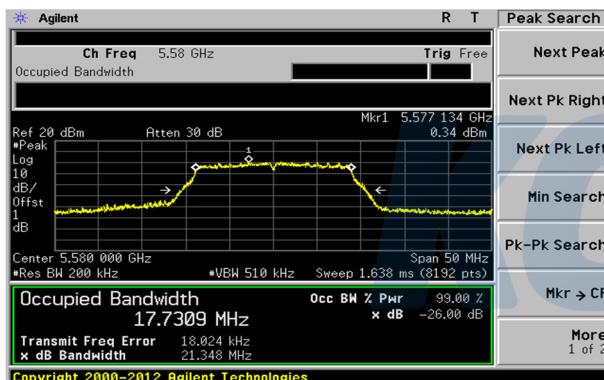
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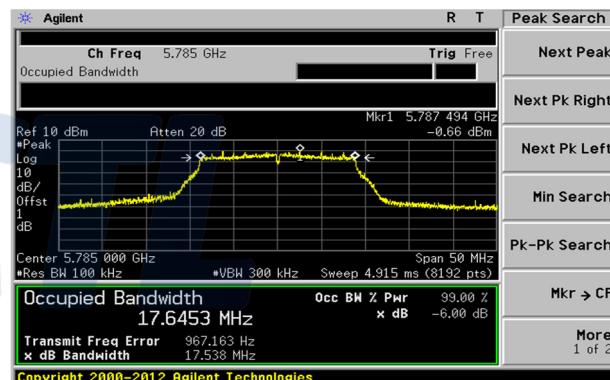
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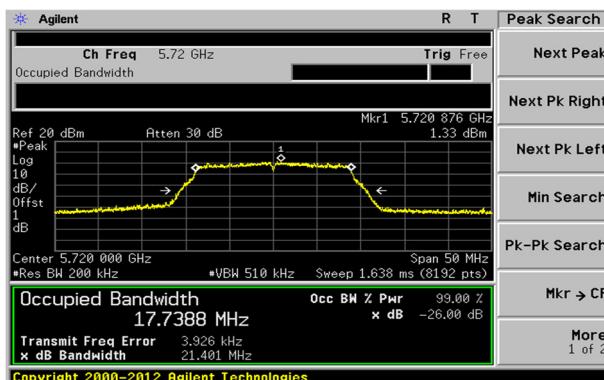
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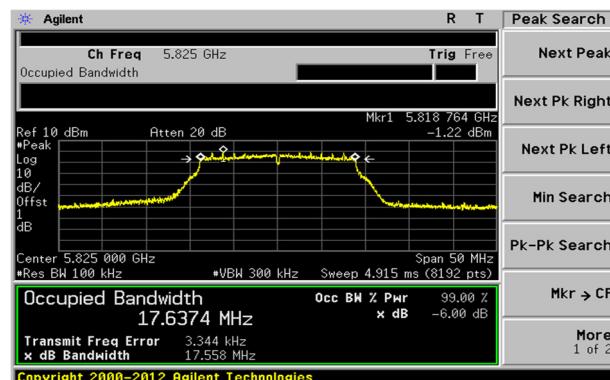
## UNII-3 / 802.11ac VHT20 / Mid ch.



## UNII-2C / 802.11ac VHT20 / High ch.



## UNII-3 / 802.11ac VHT20 / High ch.



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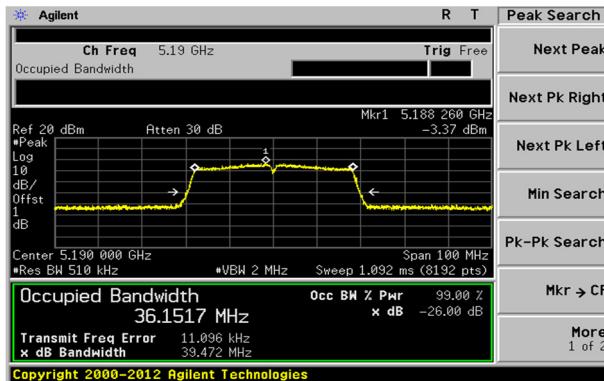
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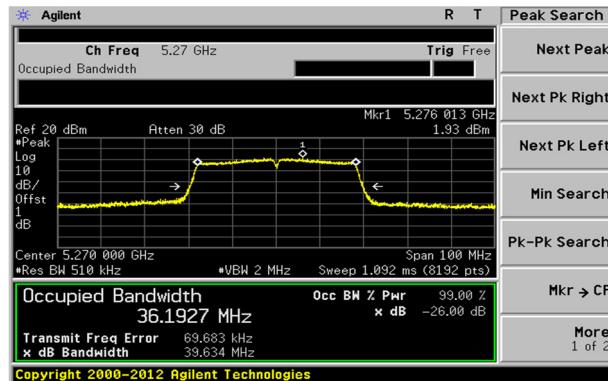
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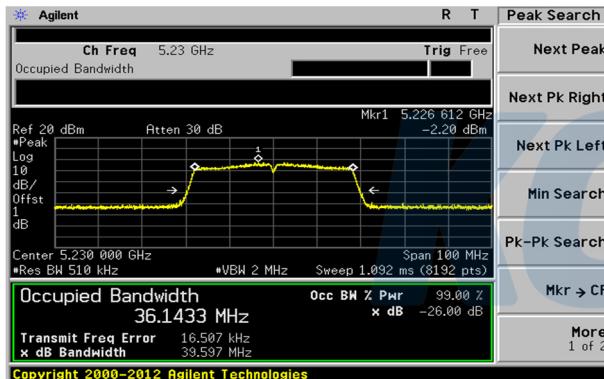
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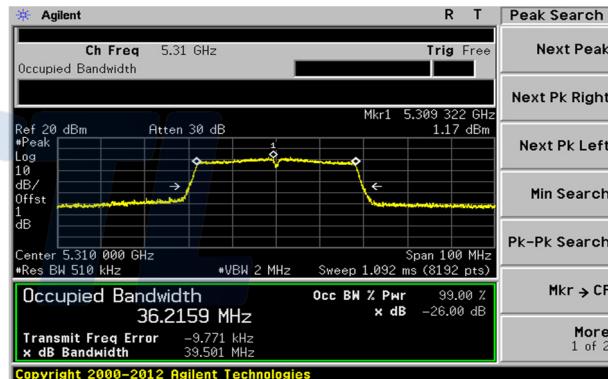
## UNII-2A / 802.11ac VHT40 / Low ch.



## UNII-1 / 802.11ac VHT40 / High ch.



## UNII-2A / 802.11ac VHT40 / High ch.



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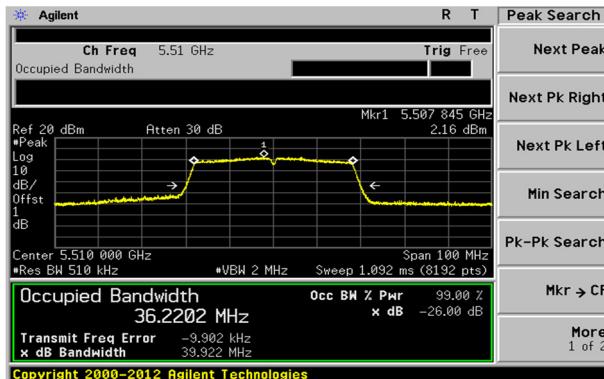
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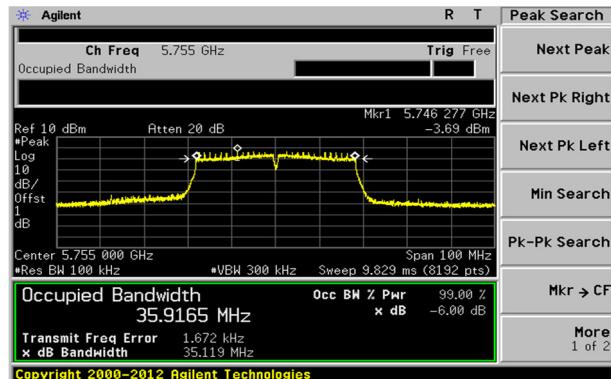
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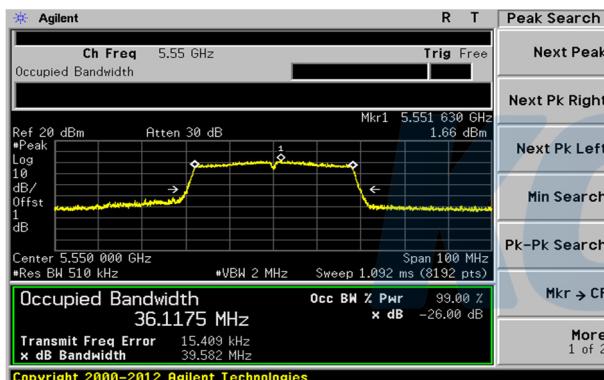
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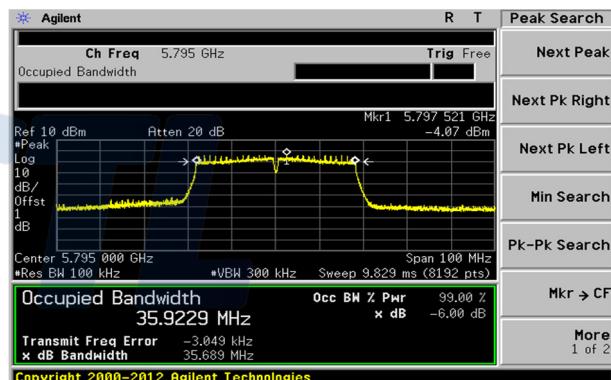
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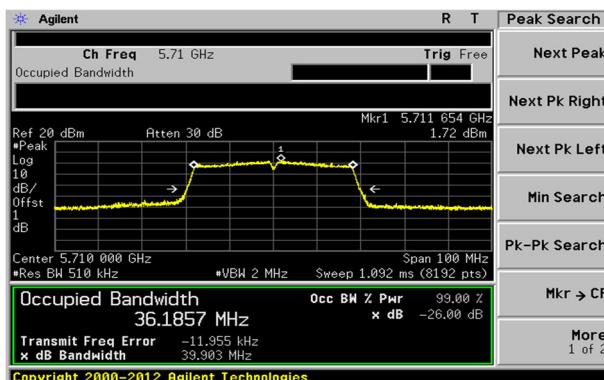
## UNII-2C / 802.11ac VHT40 / Mid ch.



## UNII-3 / 802.11ac VHT40 / High ch.



## UNII-2C / 802.11ac VHT40 / High ch.



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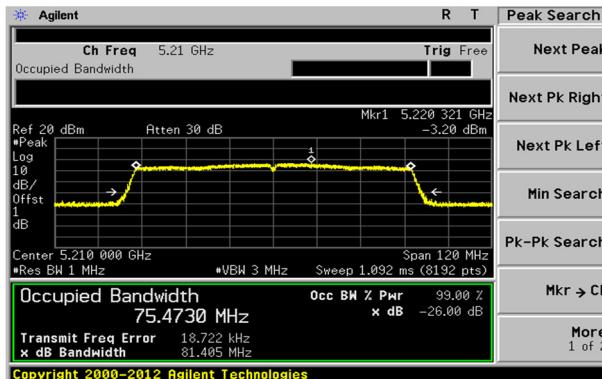
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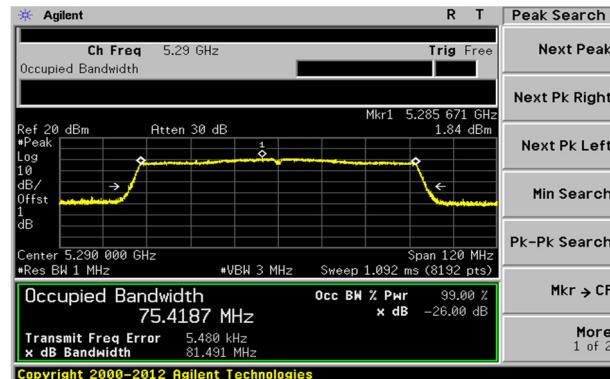
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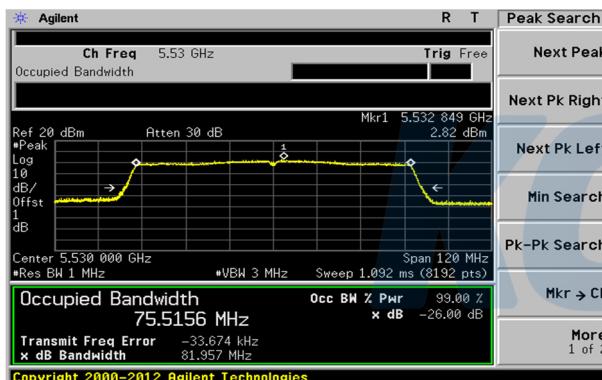
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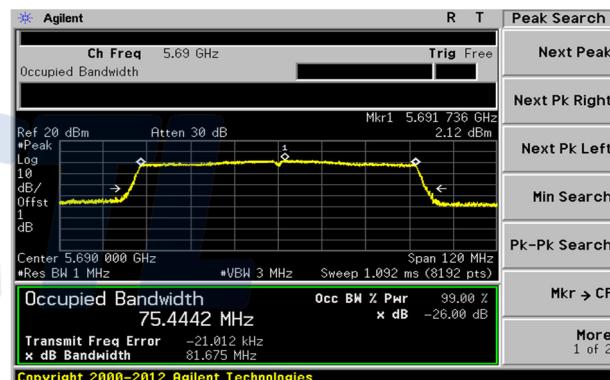
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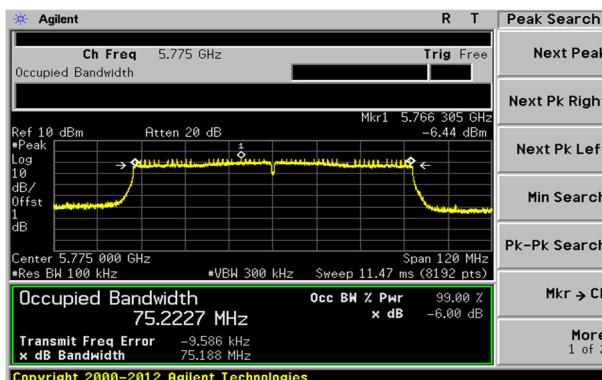
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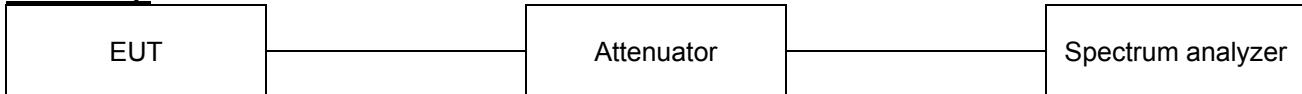
## UNII-3 / 802.11ac VHT80 / Low ch.



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## 7.4. 6 dB Bandwidth

### Test setup



### Limit

According to §15.407(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth if U-NII devices shall be at least 500 kHz

### Test procedure

ANSI C63.10-2013 Section 6.9.2  
KDB 789033 D02 v02r01 - Section C.2

### Test settings

Minimum Emission Bandwidth for the band 5.725–5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**Test results**

Test mode	Band	Frequency (MHz)	Measured Bandwidth (MHz)	Minimum Bandwidth (MHz)	
802.11a	UNII-3	5 745	16.31	0.50	
		5 785	16.30		
		5 825	16.32		
		5 745	17.55		
		5 785	17.58		
		5 825	17.56		
		5 755	35.47		
		5 795	35.36		
		5 745	17.57		
		5 785	17.54		
		5 825	17.56		
		5 755	35.12		
802.11n HT20		5 795	35.69		
		5 775	75.19		
802.11n HT40					
802.11ac VHT20					
802.11ac VHT40					
802.11ac VHT80					

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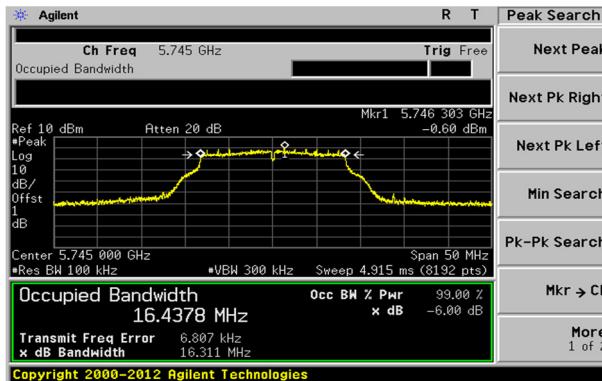
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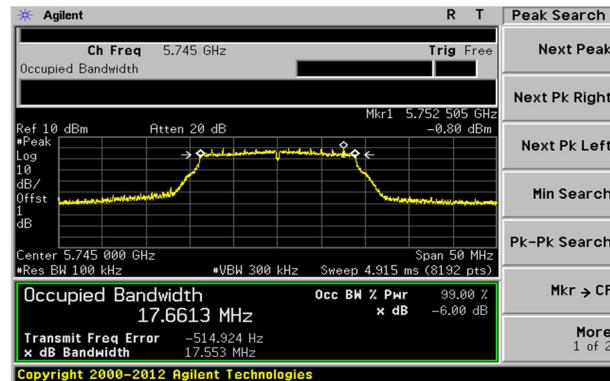
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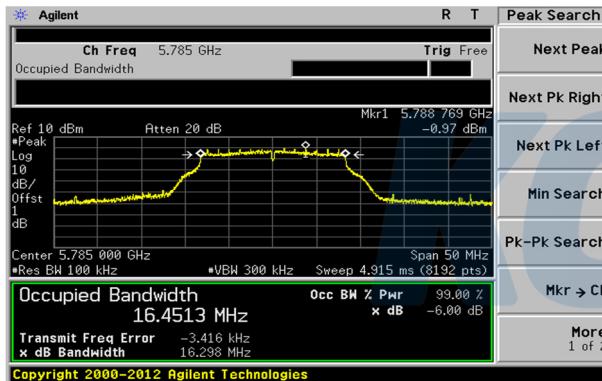
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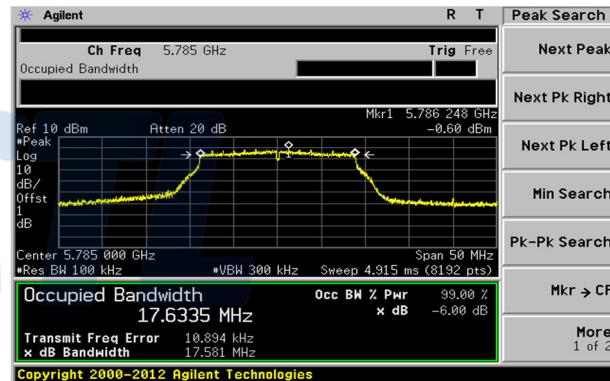
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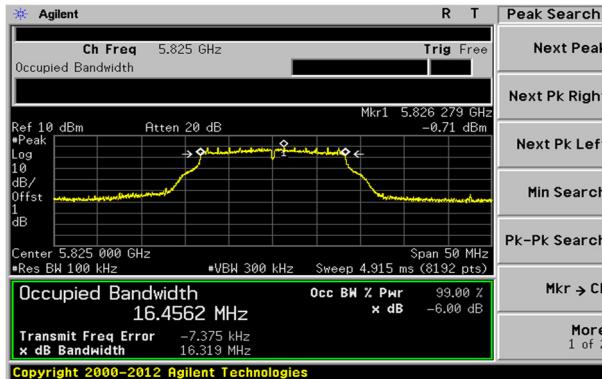
## UNII-3 / 802.11a / Mid ch.



## UNII-3 / 802.11n HT20 / Mid ch.



## UNII-3 / 802.11a / High ch.



## UNII-3 / 802.11n HT20 / High ch.

