

Product	Wireless Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 2) Antenna Gain: 2dBi Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	46.973	≥ 20	Pass
165	5825	45.942	≥ 20	Pass

Channel 149 (5745MHz)



[illegible]

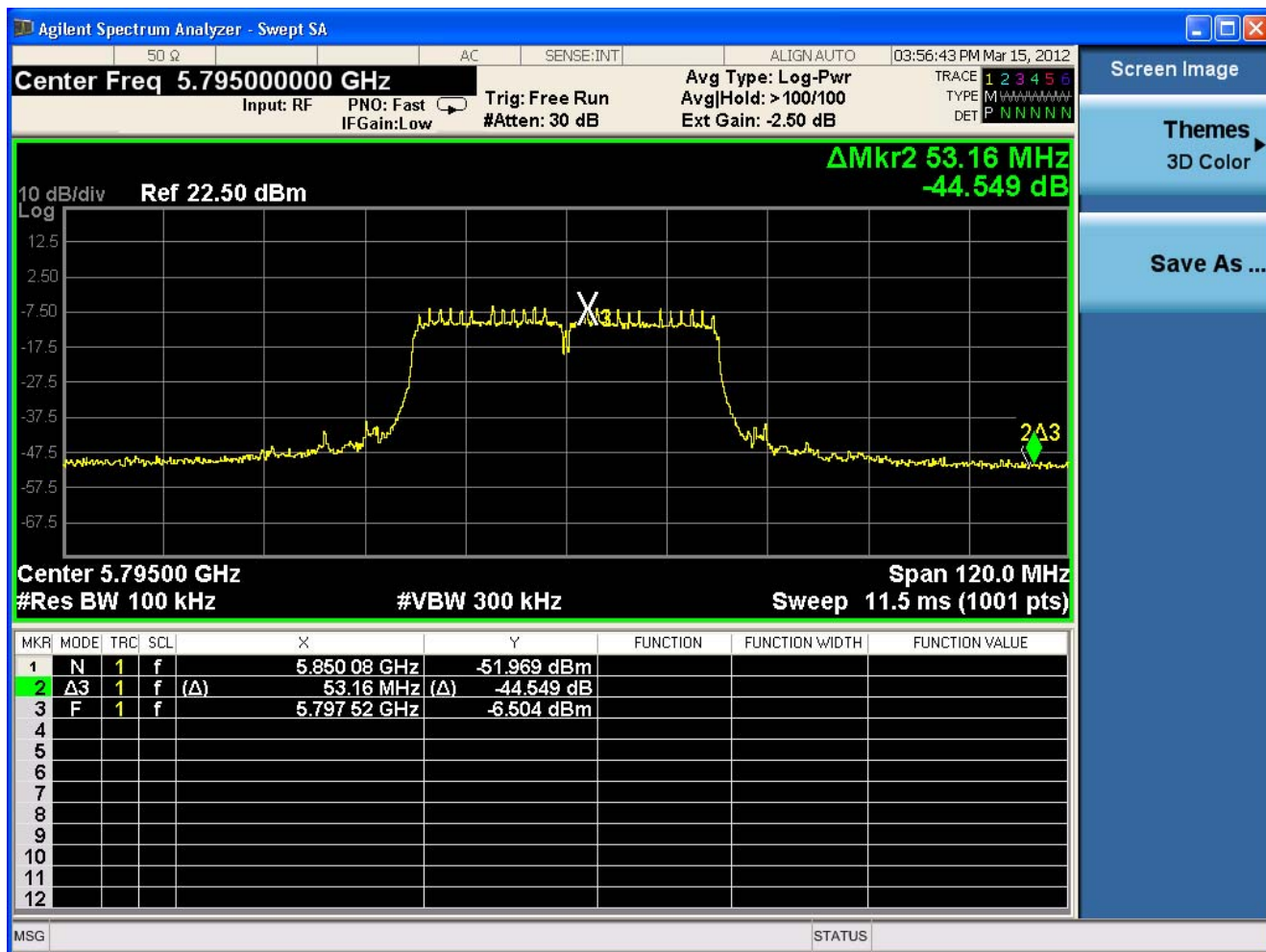
Product	Wireless Extender		
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IEEE 802.11n (40MHz), (ANT 0) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	41.326	≥ 20	Pass
159	5795	44.549	≥ 20	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	Wireless Extender		
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Test Mode	Mode 1: Transmit		
Date of Test	2012/03/15	Test Site	SR7

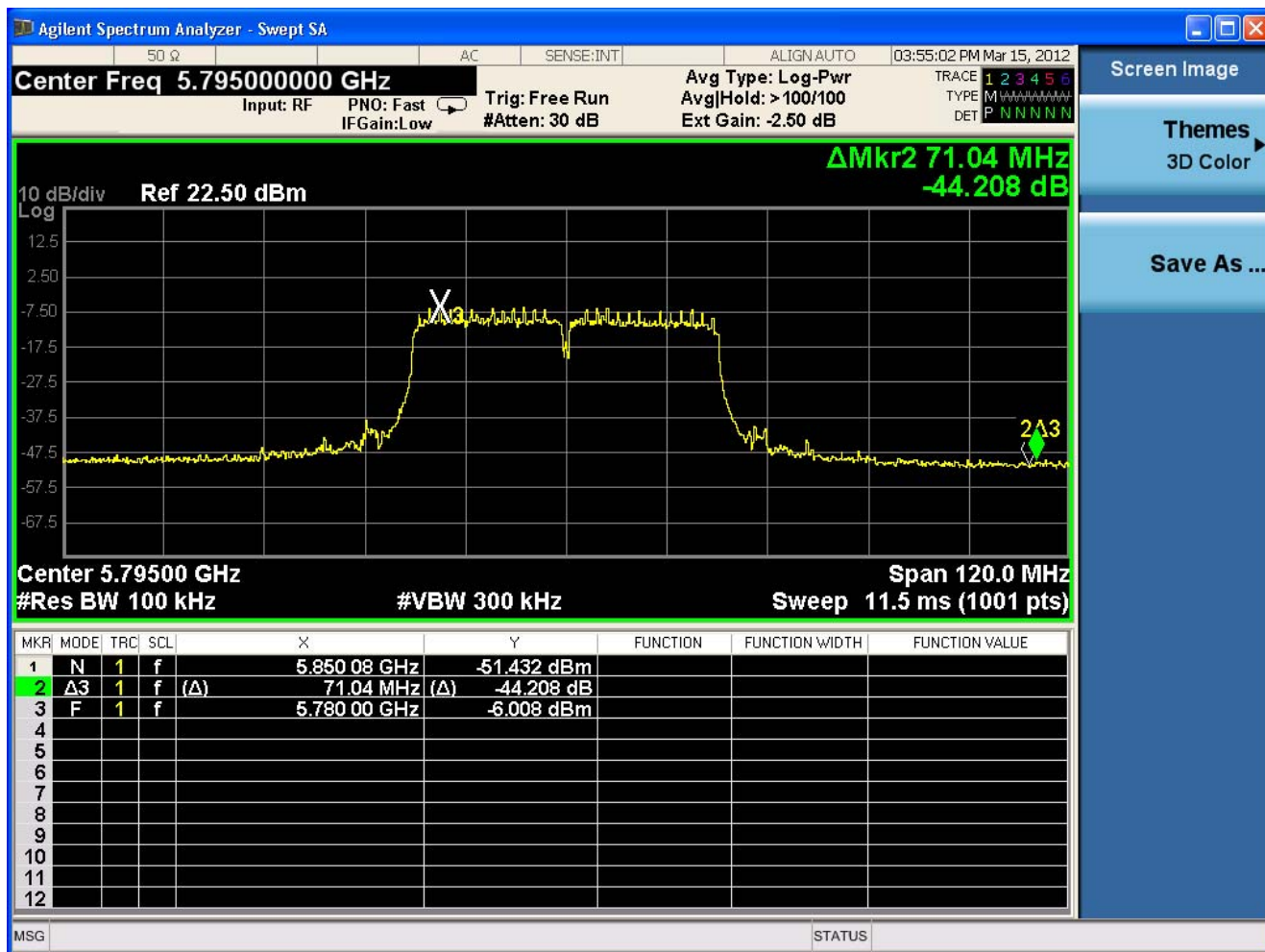
IEEE 802.11n (40MHz), (ANT 1) Antenna Gain: 2dBi Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	41.851	≥ 20	Pass
159	5795	44.208	≥ 20	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)



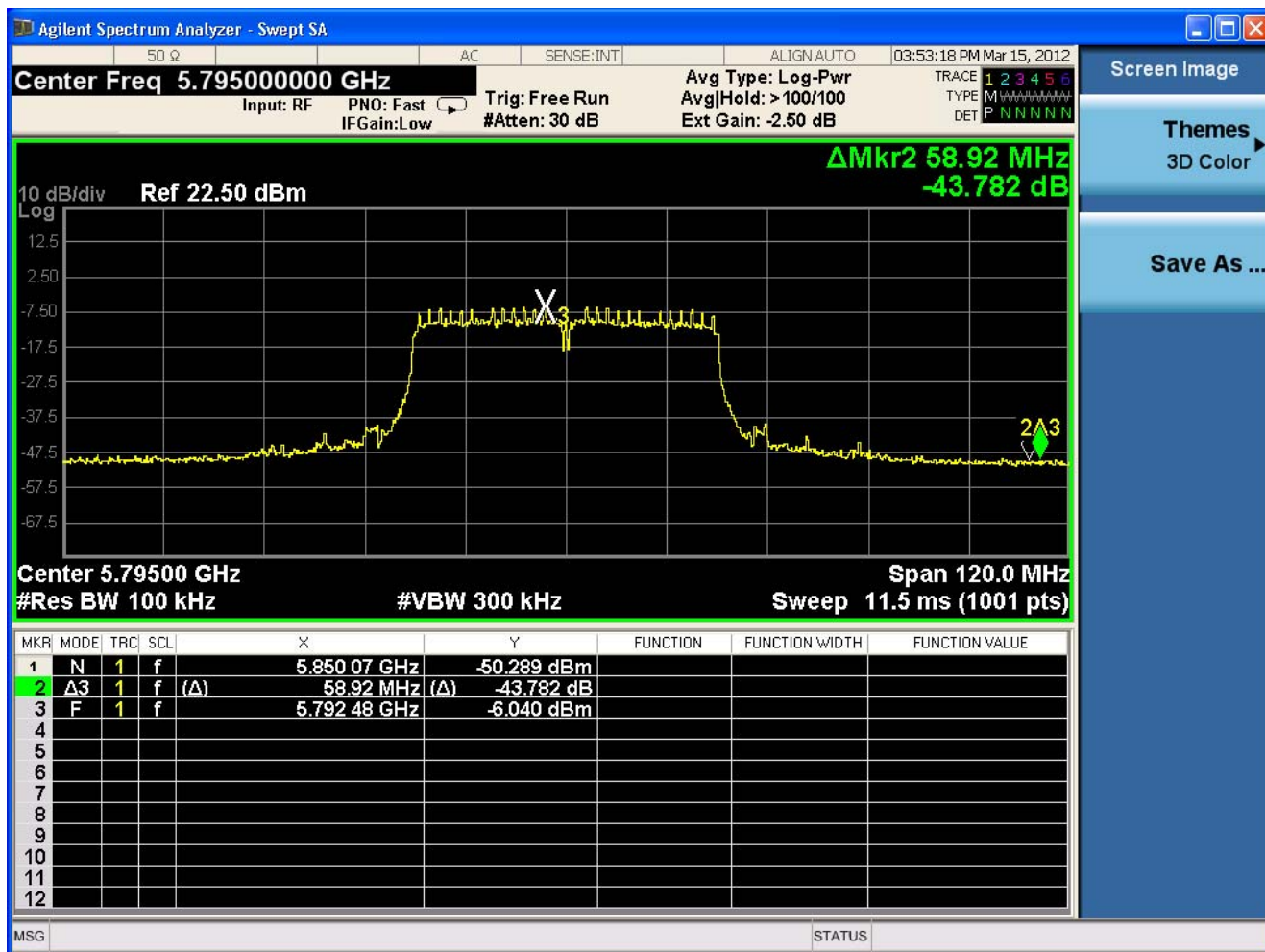
Product	Wireless Extender		
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IEEE 802.11n (40MHz), (ANT 2) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	42.567	≥ 20	Pass
159	5795	43.782	≥ 20	Pass

Channel 151 (5755MHz)

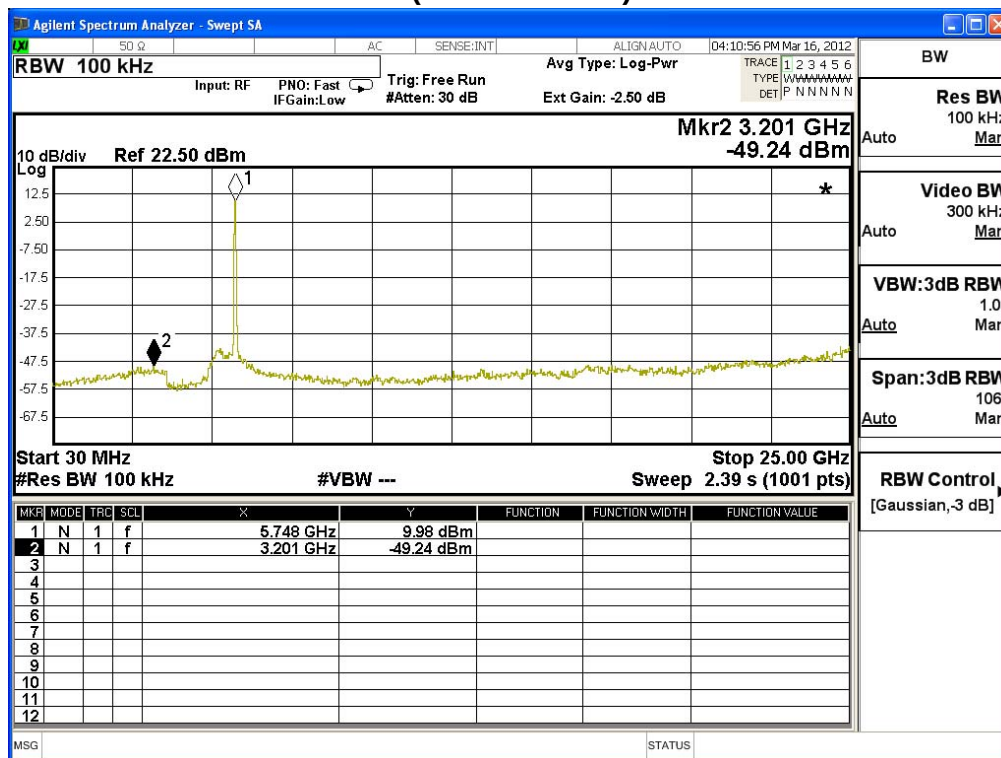


Channel 159 (5795MHz)

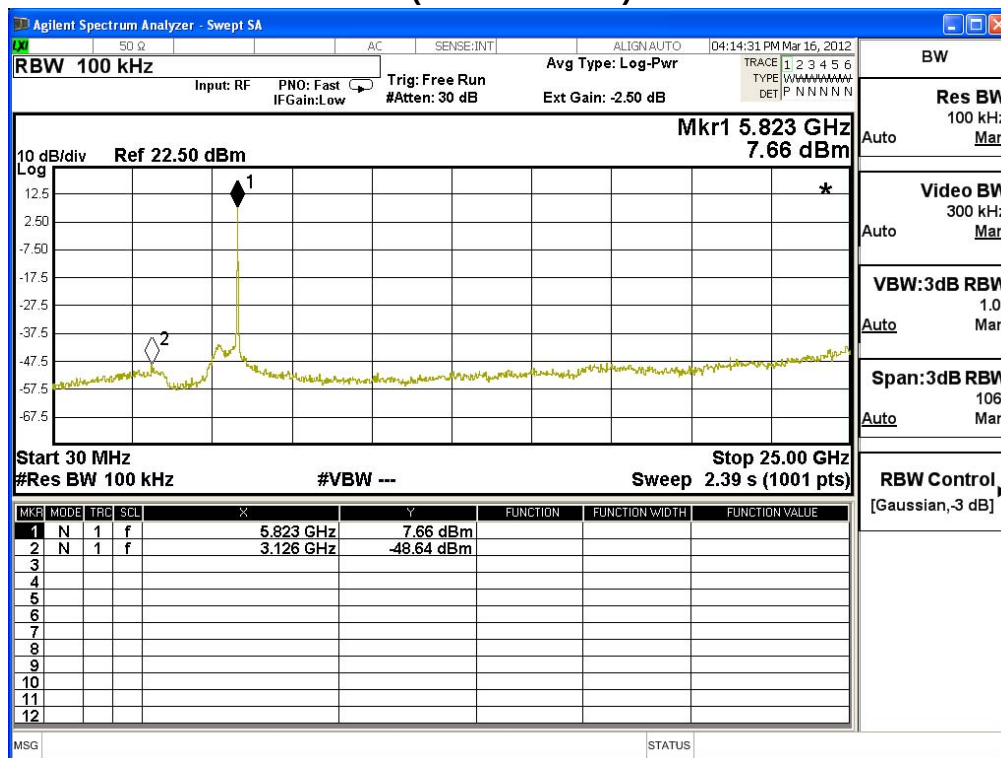


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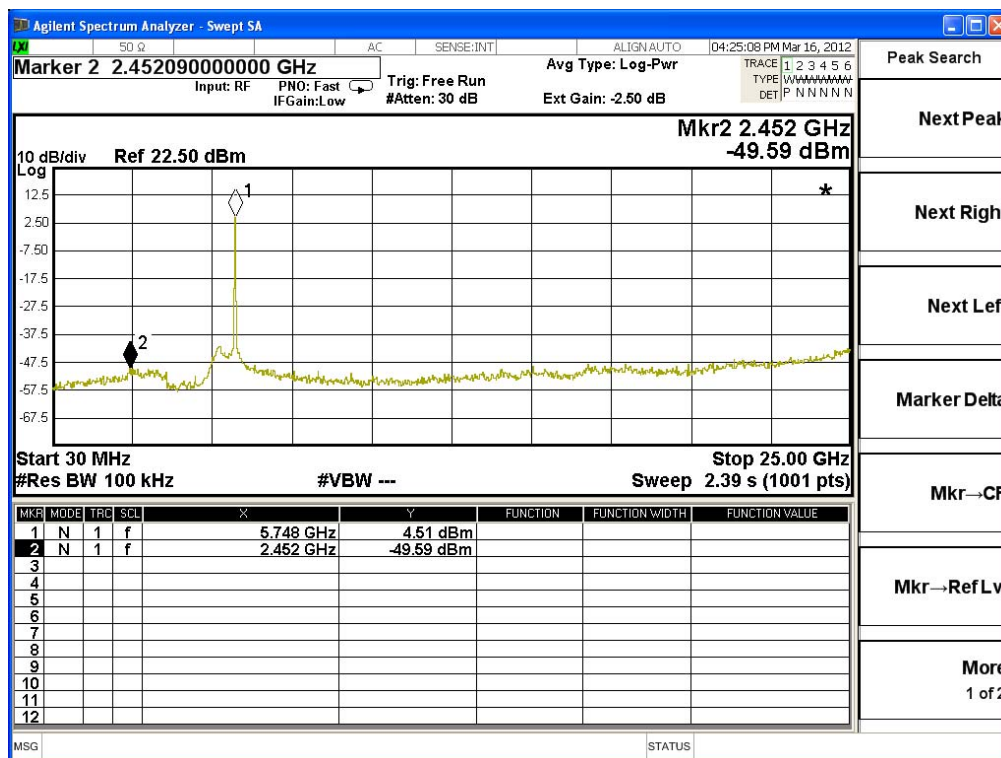
5745MHz (30MHz~25GHz)-802.11a



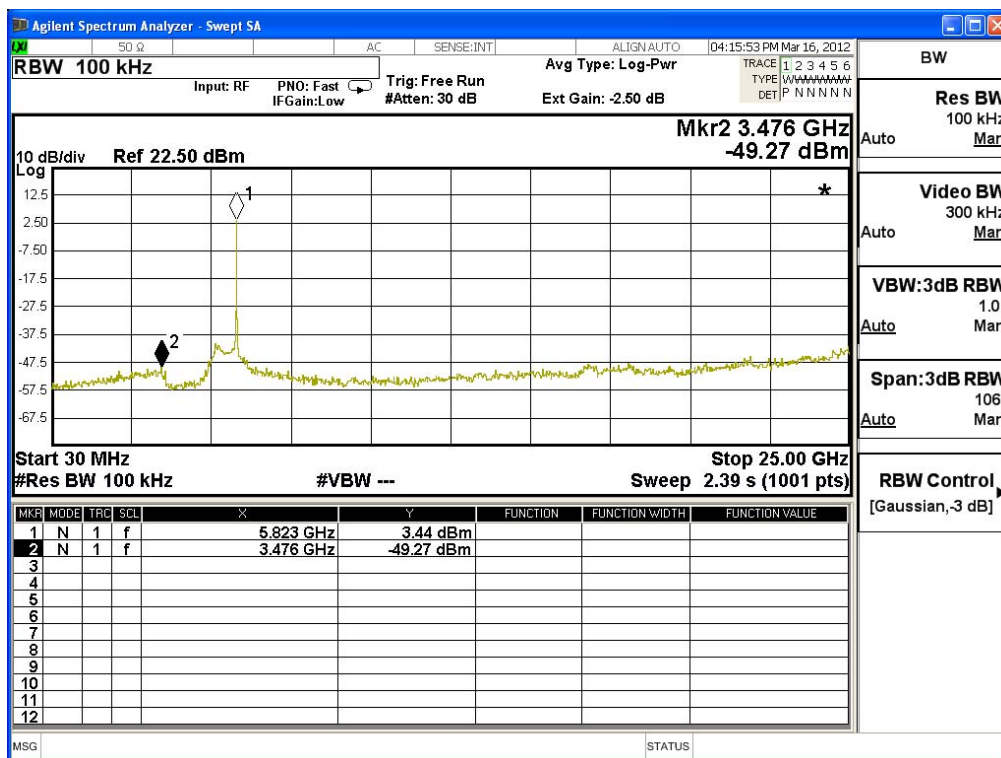
5825MHz (30MHz~25GHz)-802.11a



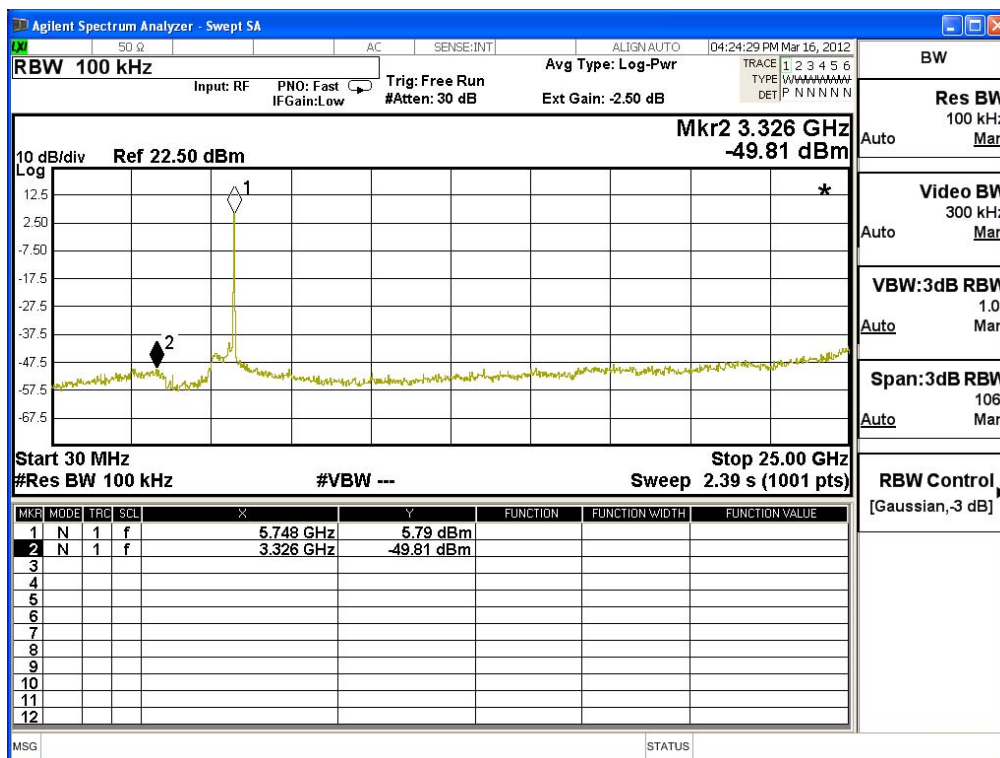
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 0



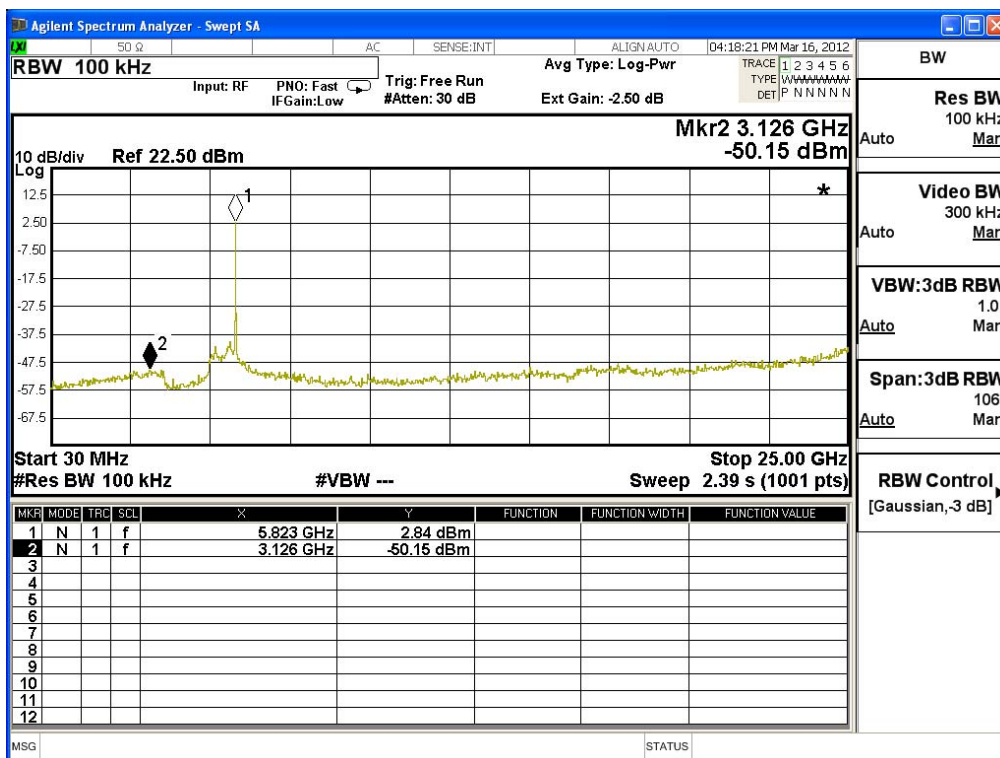
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 0



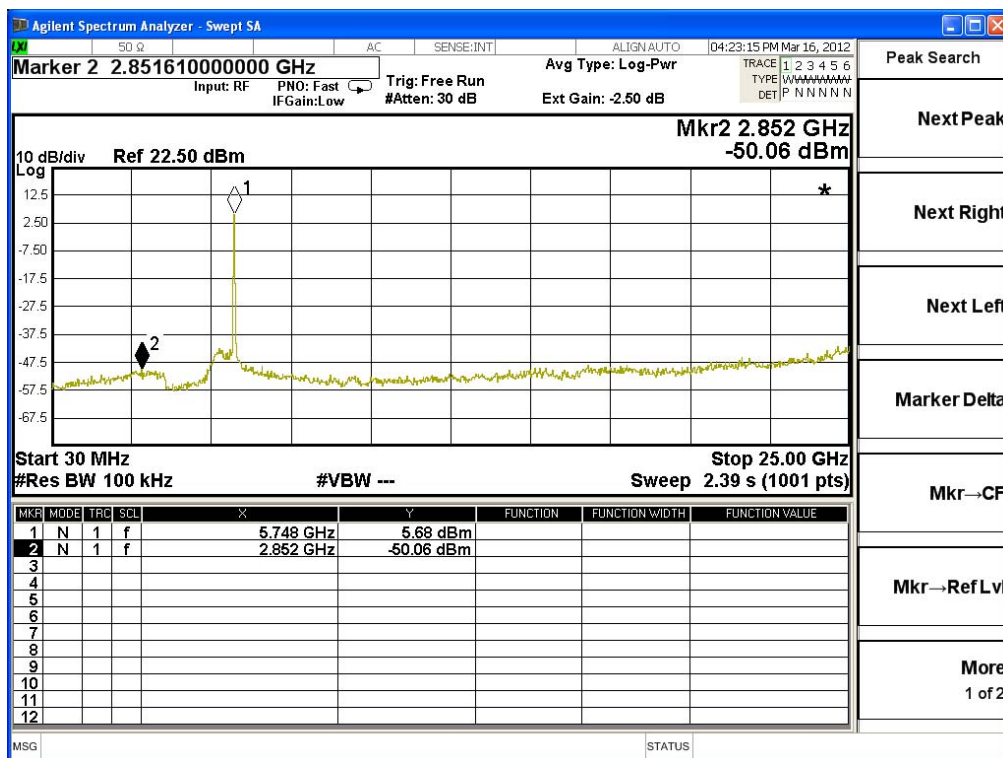
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 1



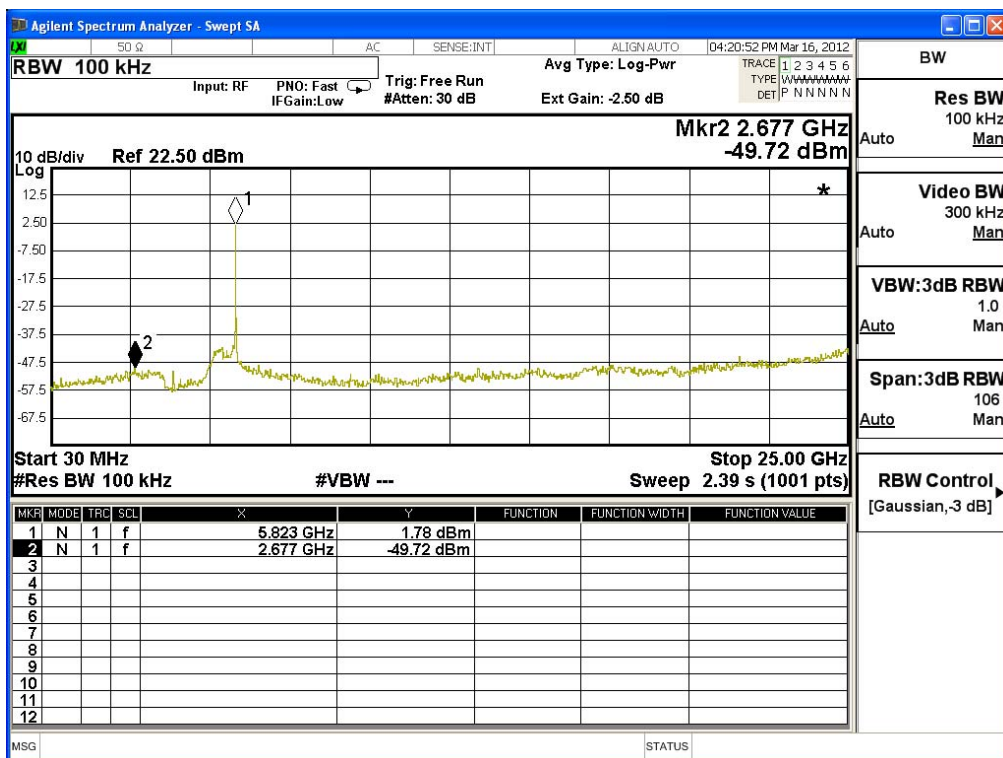
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 1



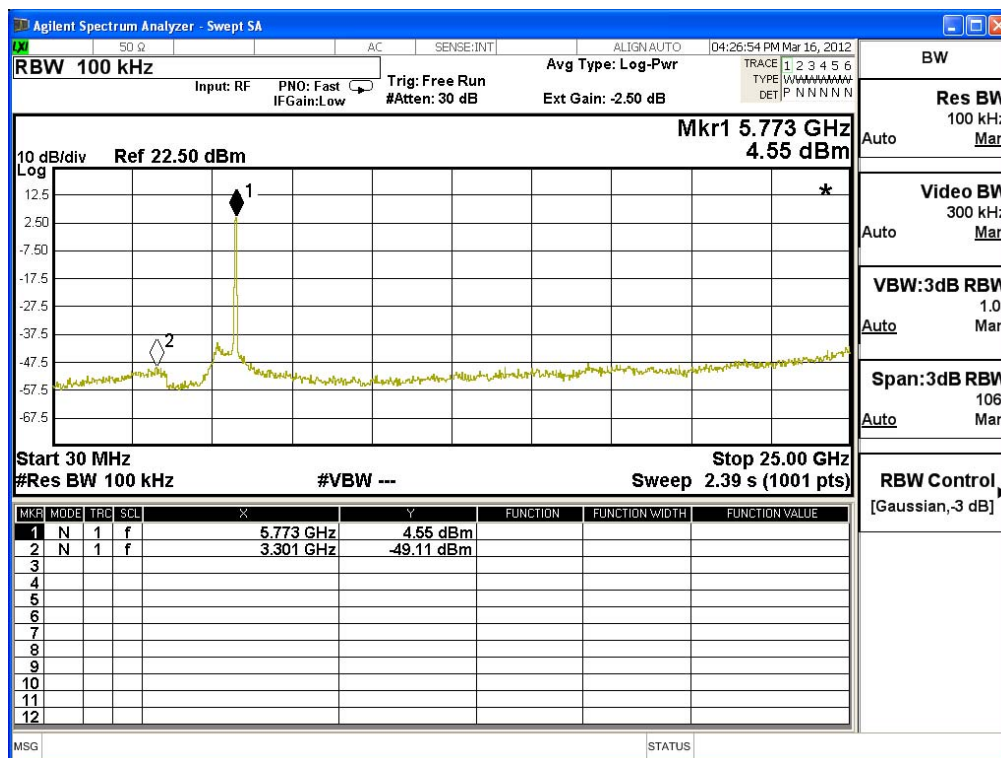
5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 2



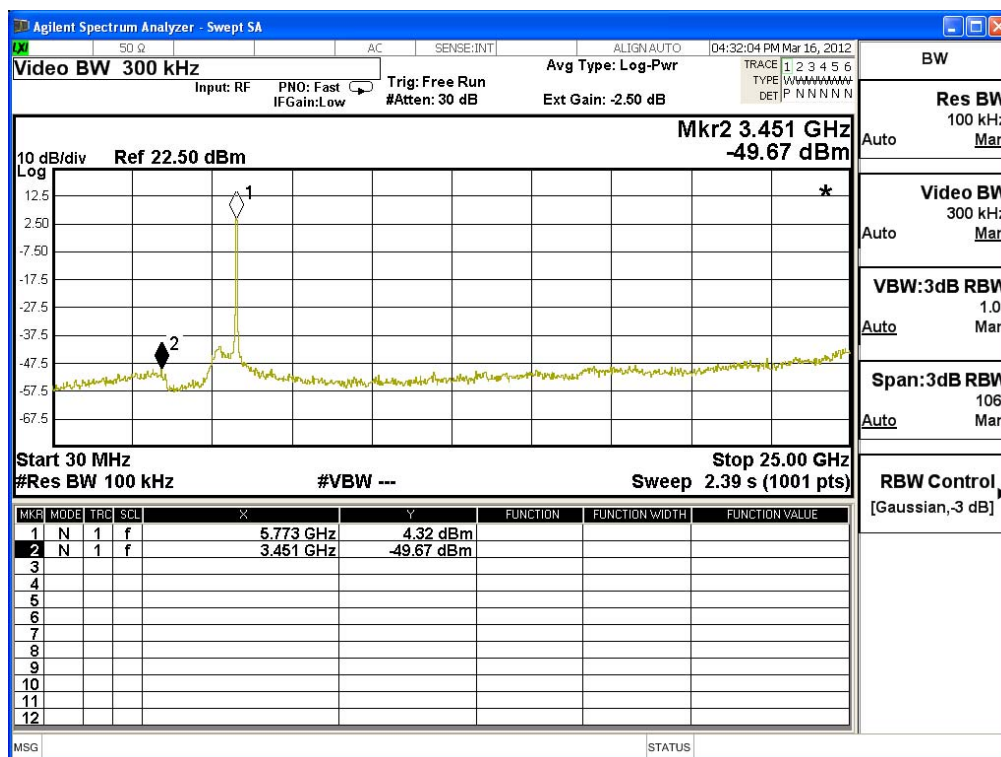
5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 2



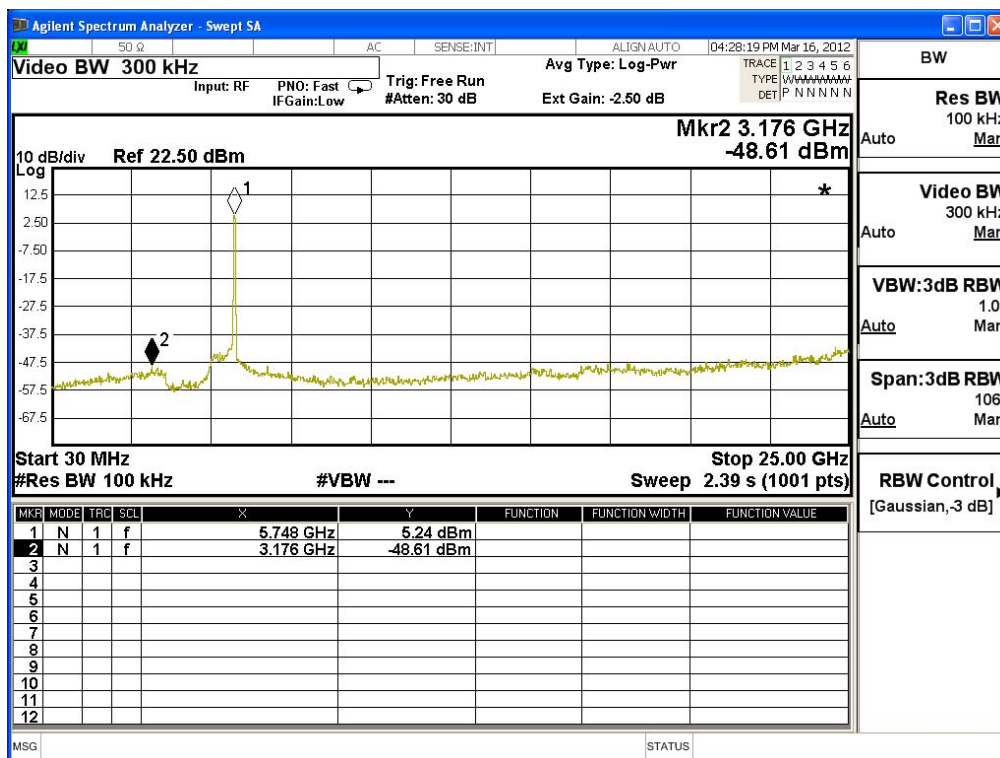
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



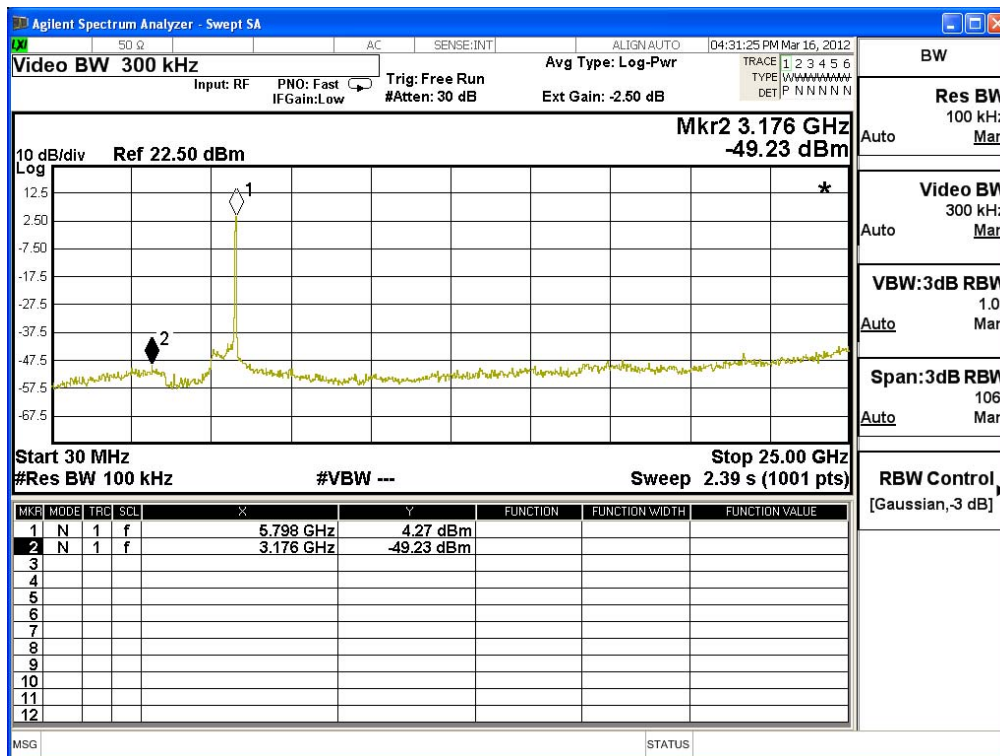
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 0



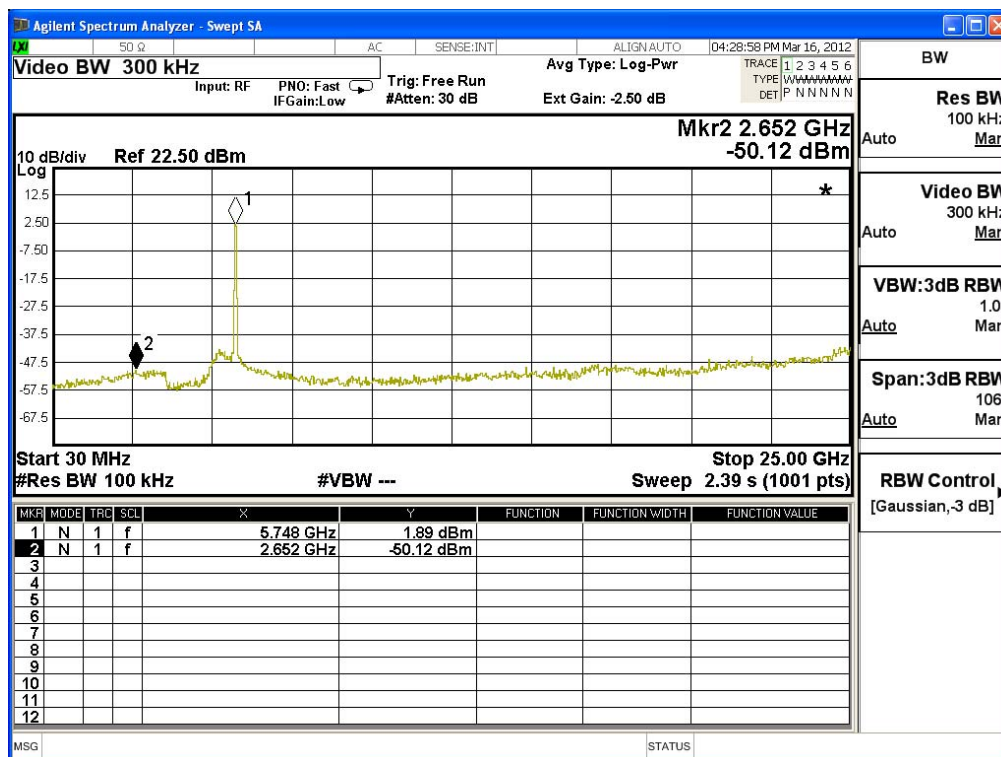
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 1



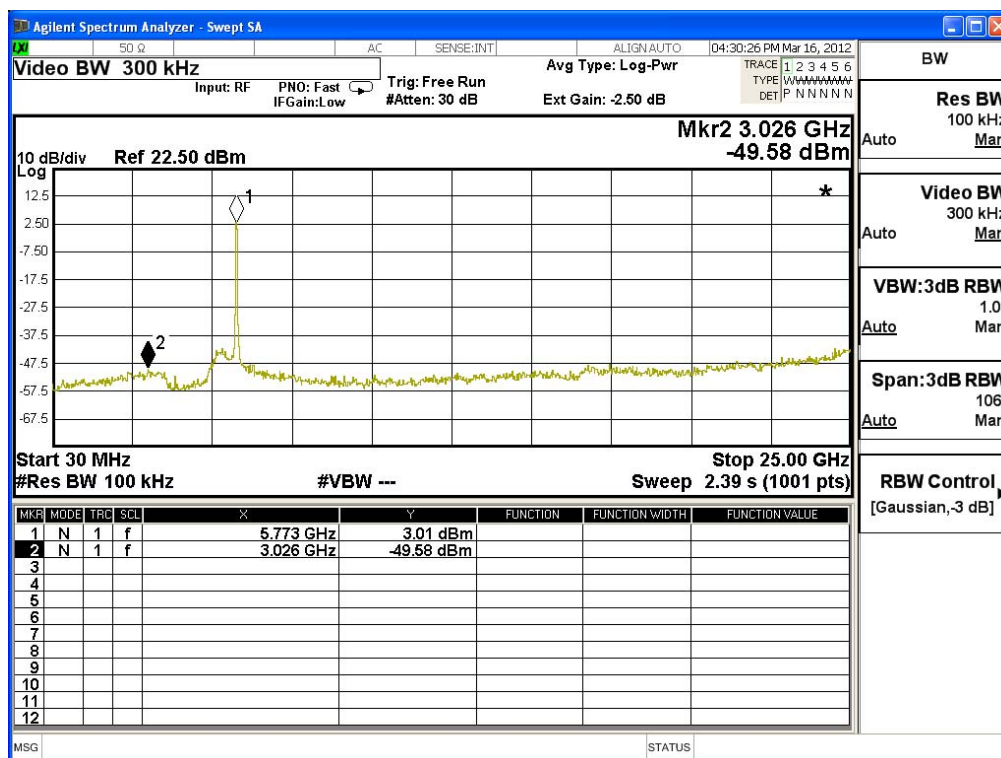
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 1



5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 2



5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 2



6. Occupied Bandwidth

6.1. Test Equipment

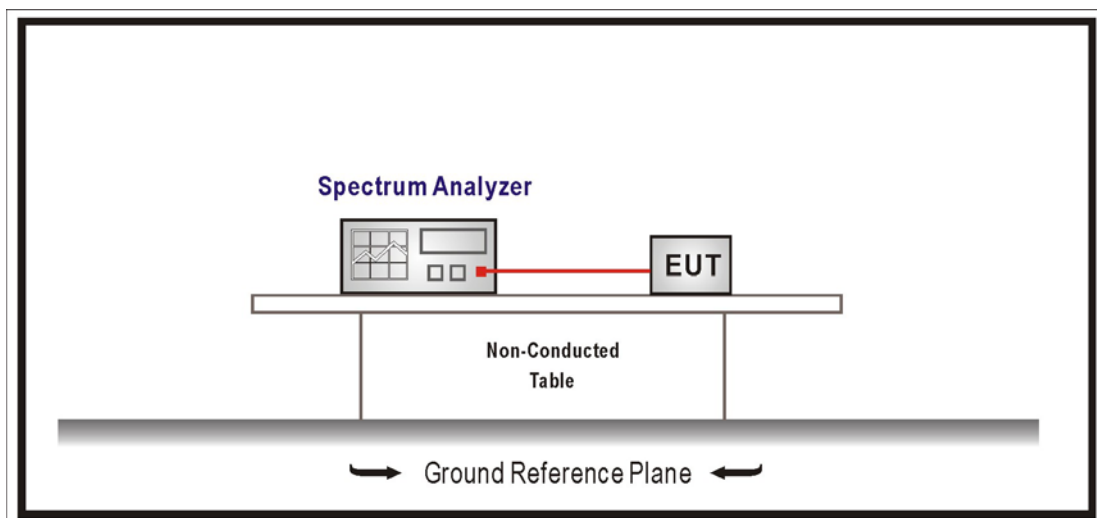
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5 % of the emission bandwidth (EBW).

6.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2010

6.6. Uncertainty

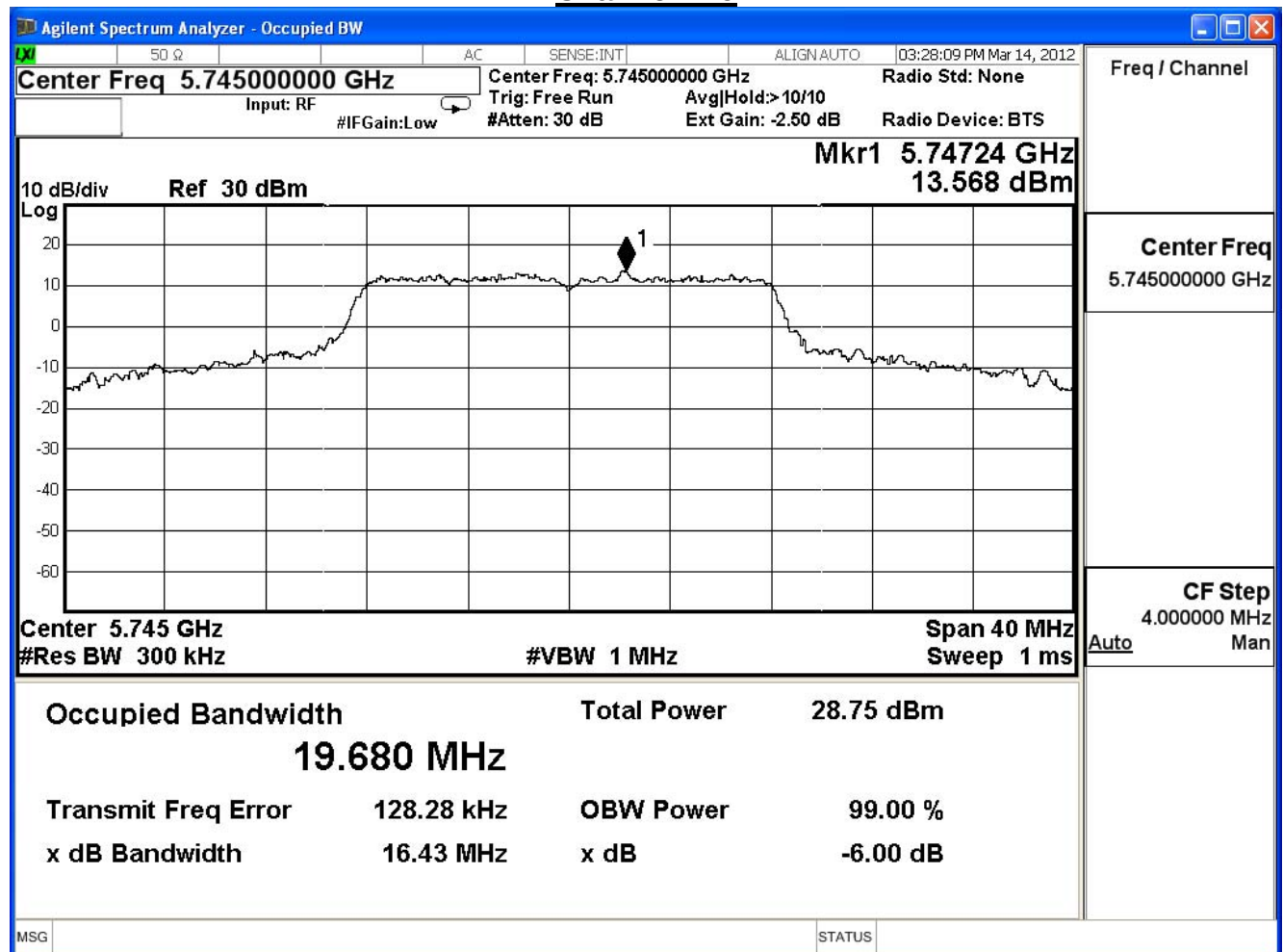
The measurement uncertainty is defined as $\pm 150\text{Hz}$

6.7. Test Result

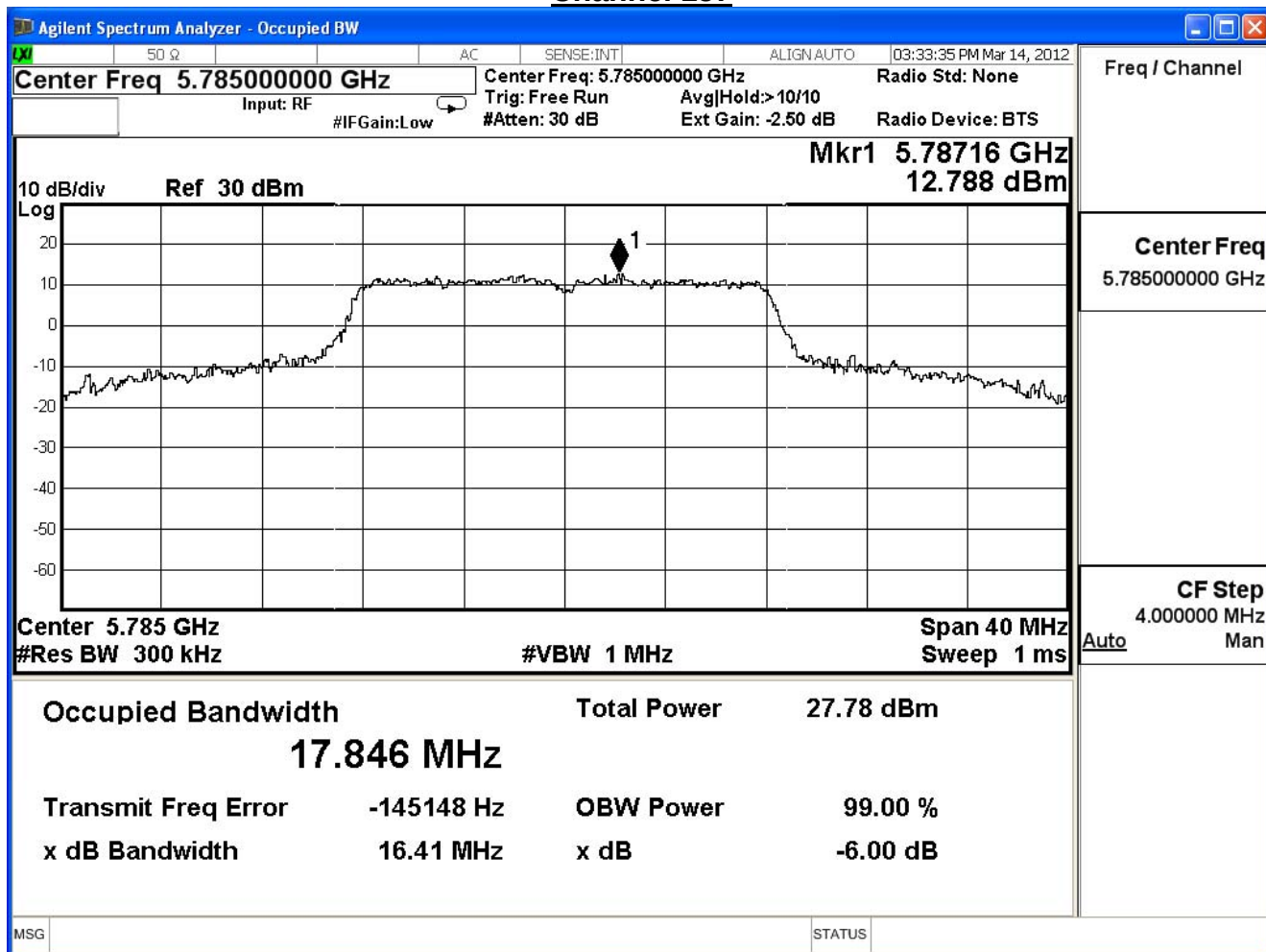
Product	Wireless Extender		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11 a				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.43	≥ 0.5	Pass
157	5785	16.41	≥ 0.5	Pass
165	5825	16.44	≥ 0.5	Pass

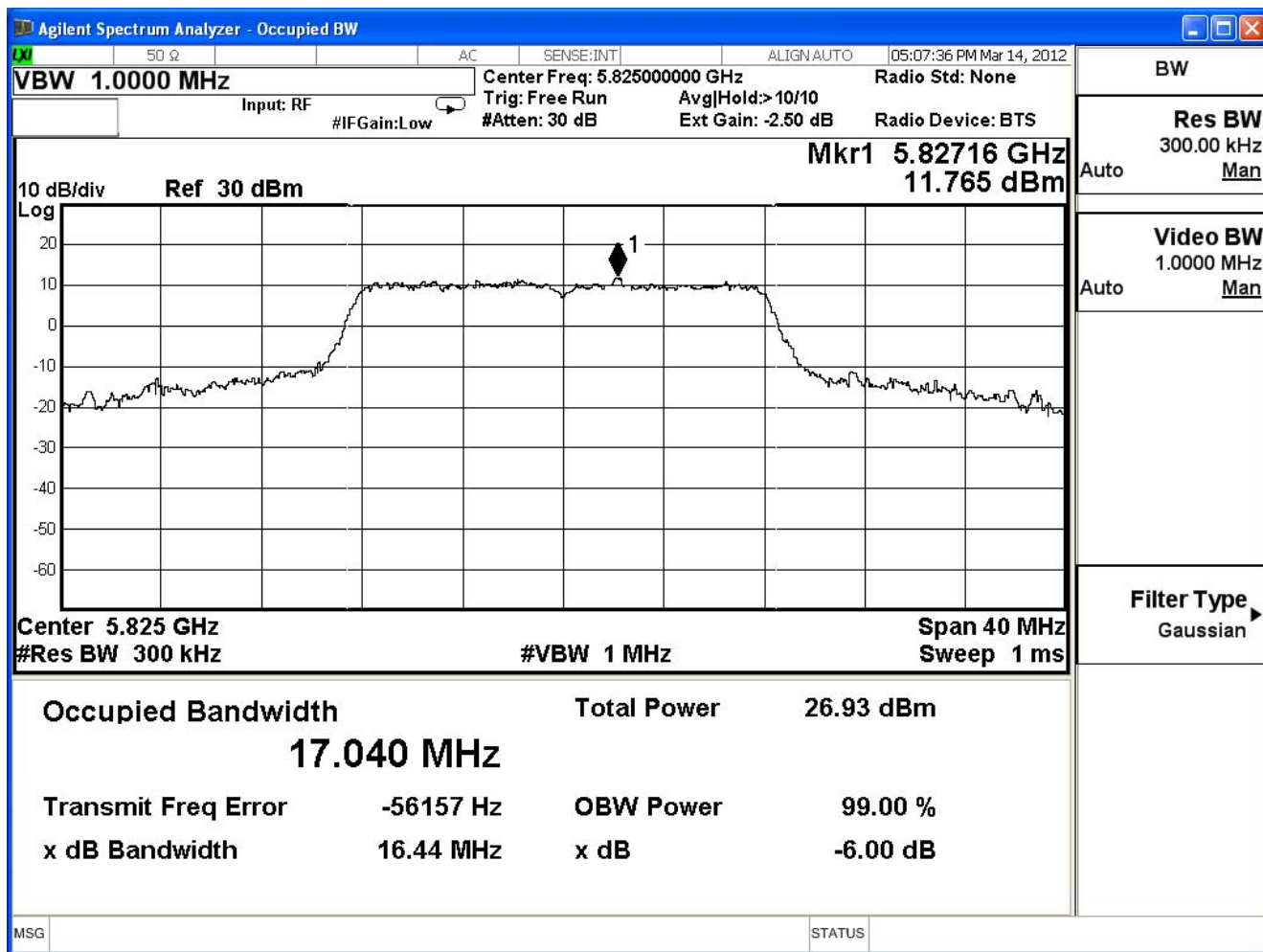
Channel 149



Channel 157



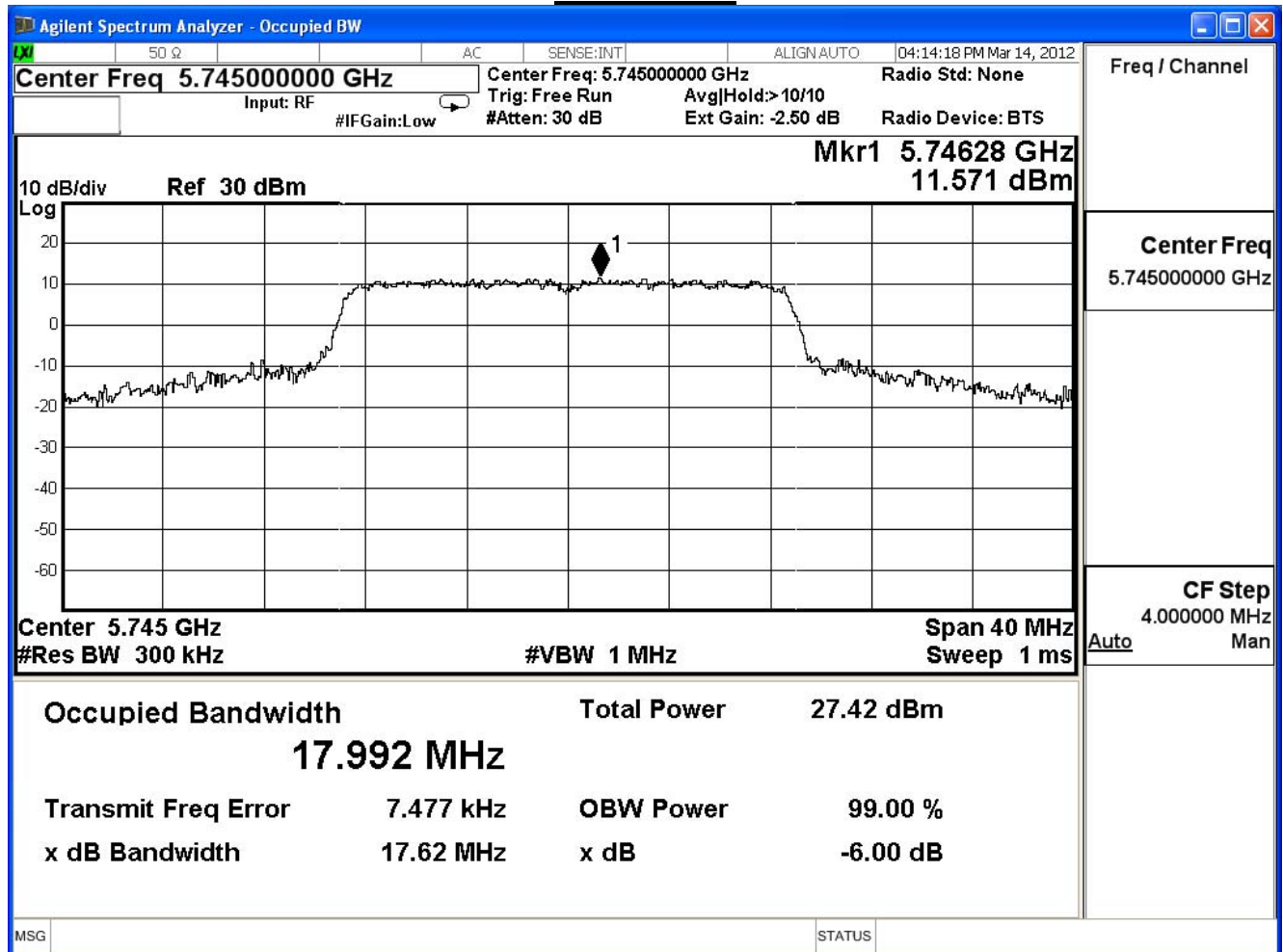
Channel 165



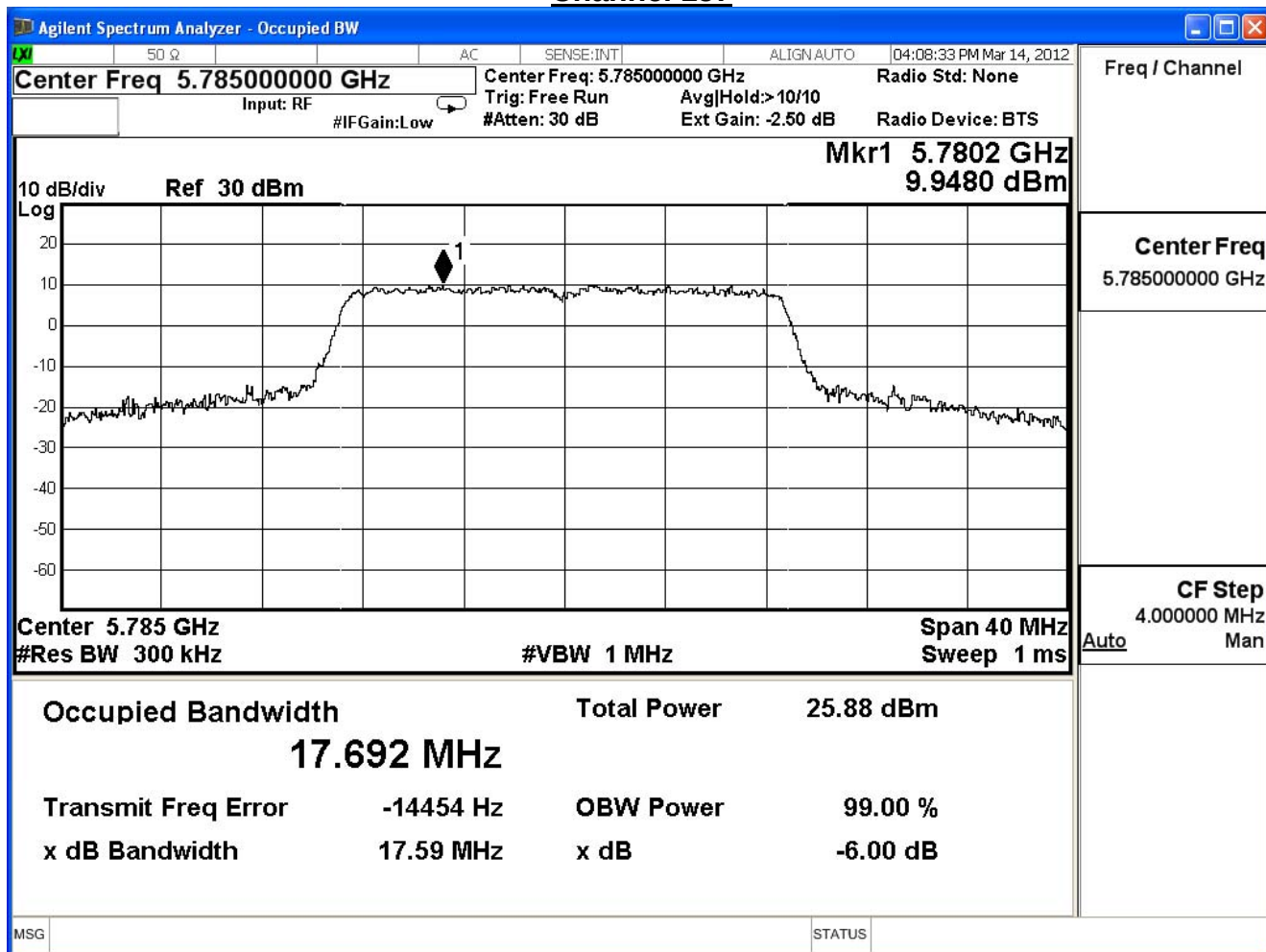
Product	Wireless Extender		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.62	≥ 0.5	Pass
157	5785	17.59	≥ 0.5	Pass
165	5825	17.51	≥ 0.5	Pass

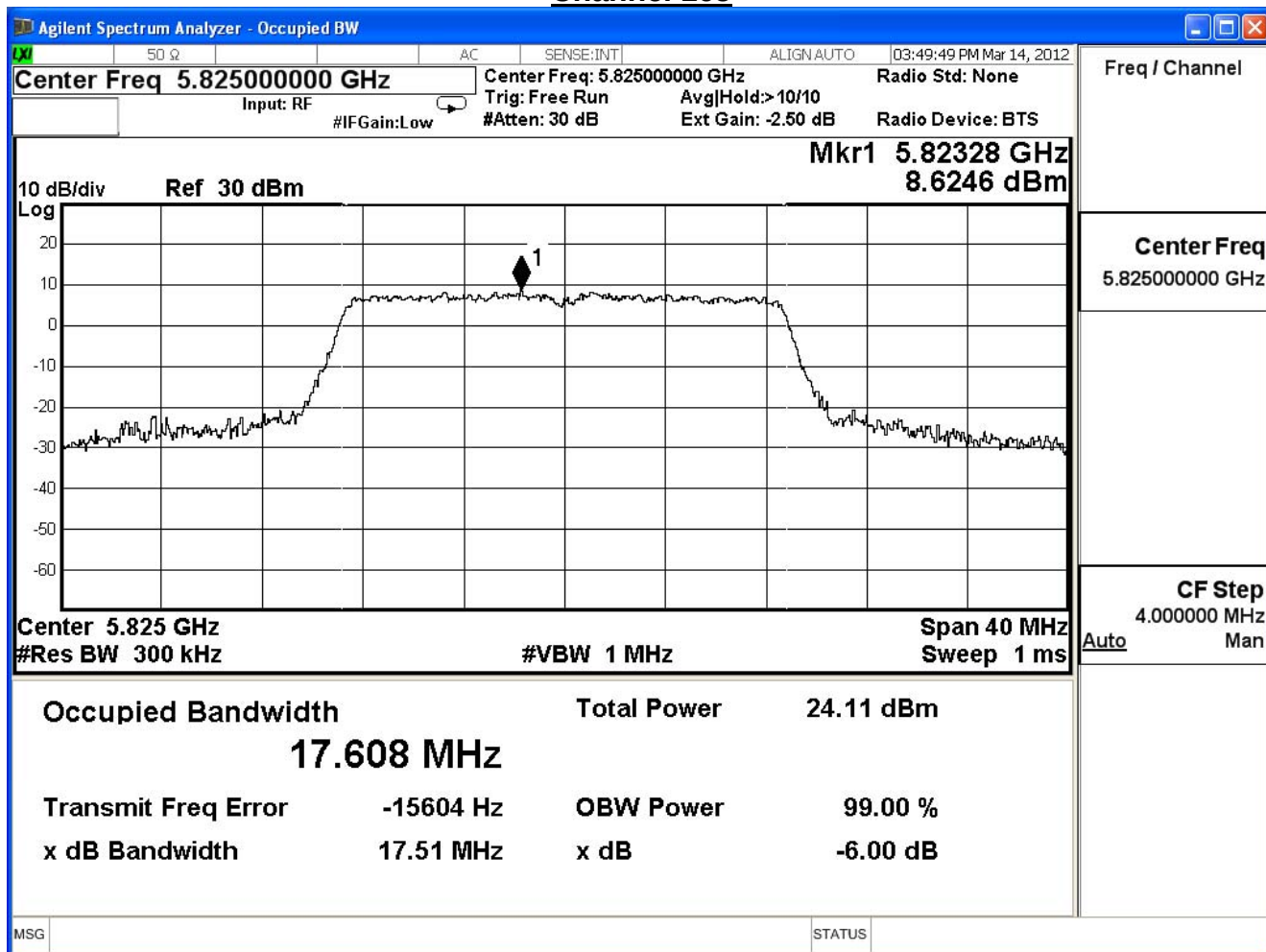
Channel 149



Channel 157



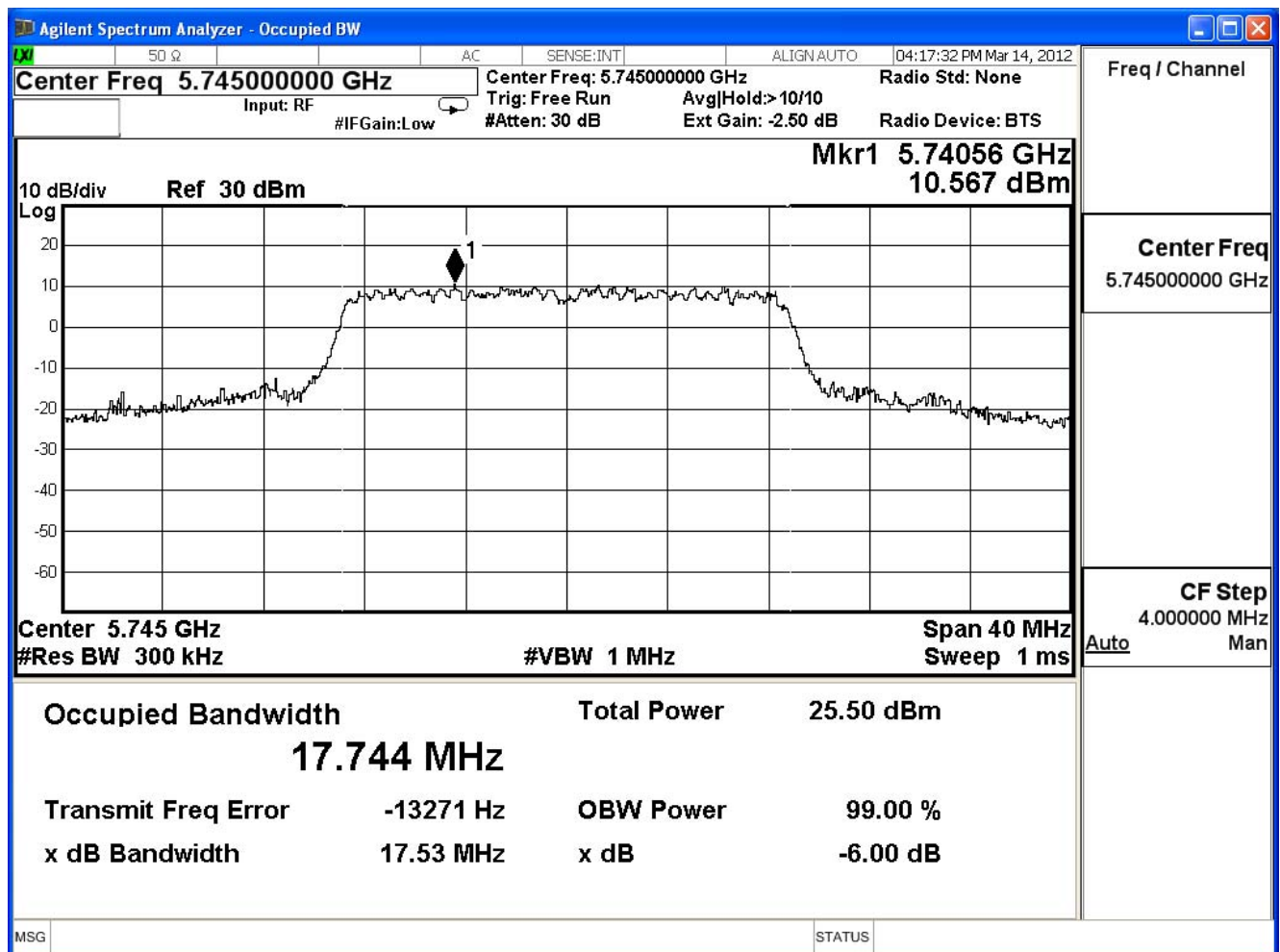
Channel 165



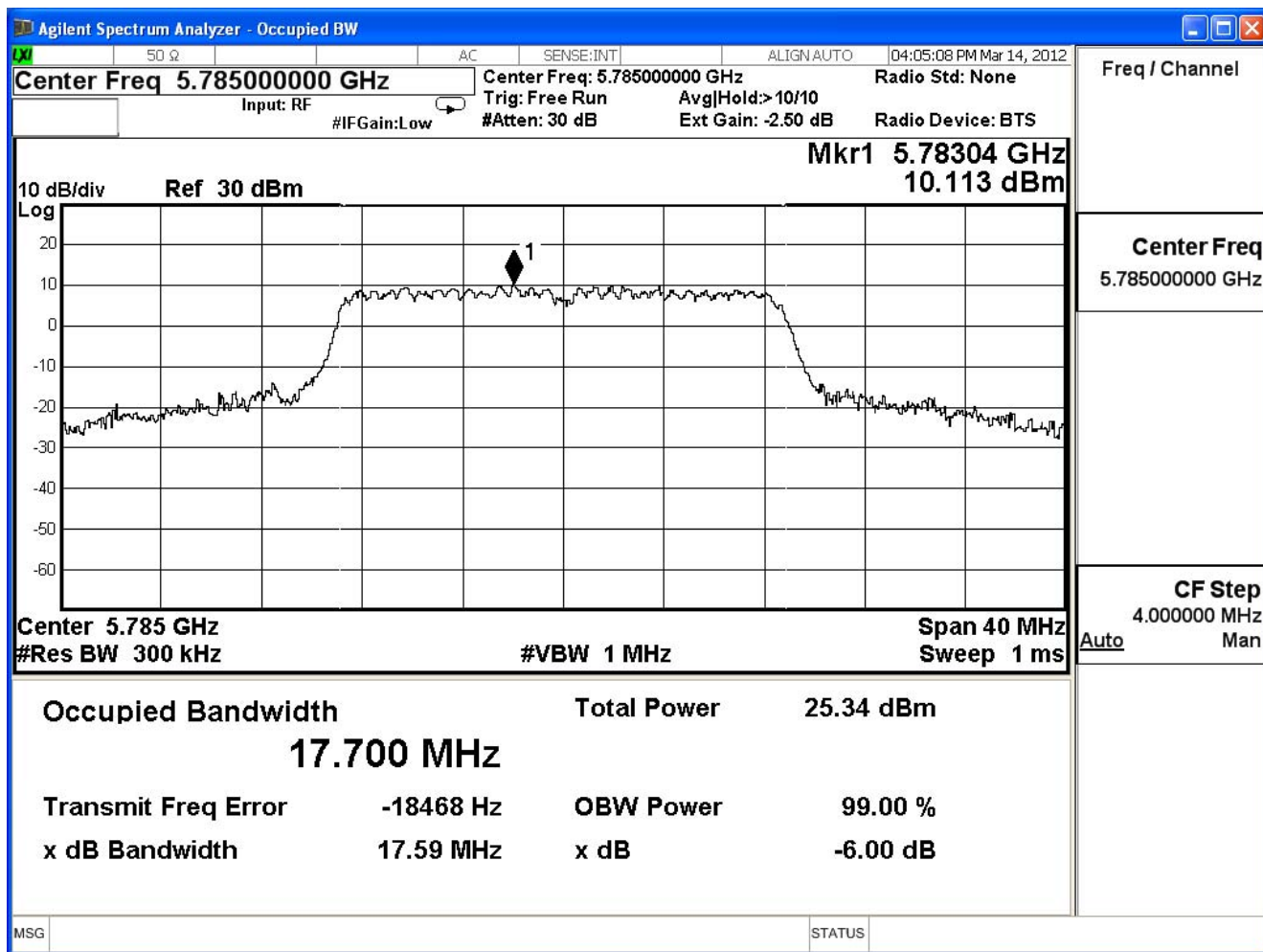
Product	Wireless Extender		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.53	≥ 0.5	Pass
157	5785	17.59	≥ 0.5	Pass
165	5825	17.63	≥ 0.5	Pass

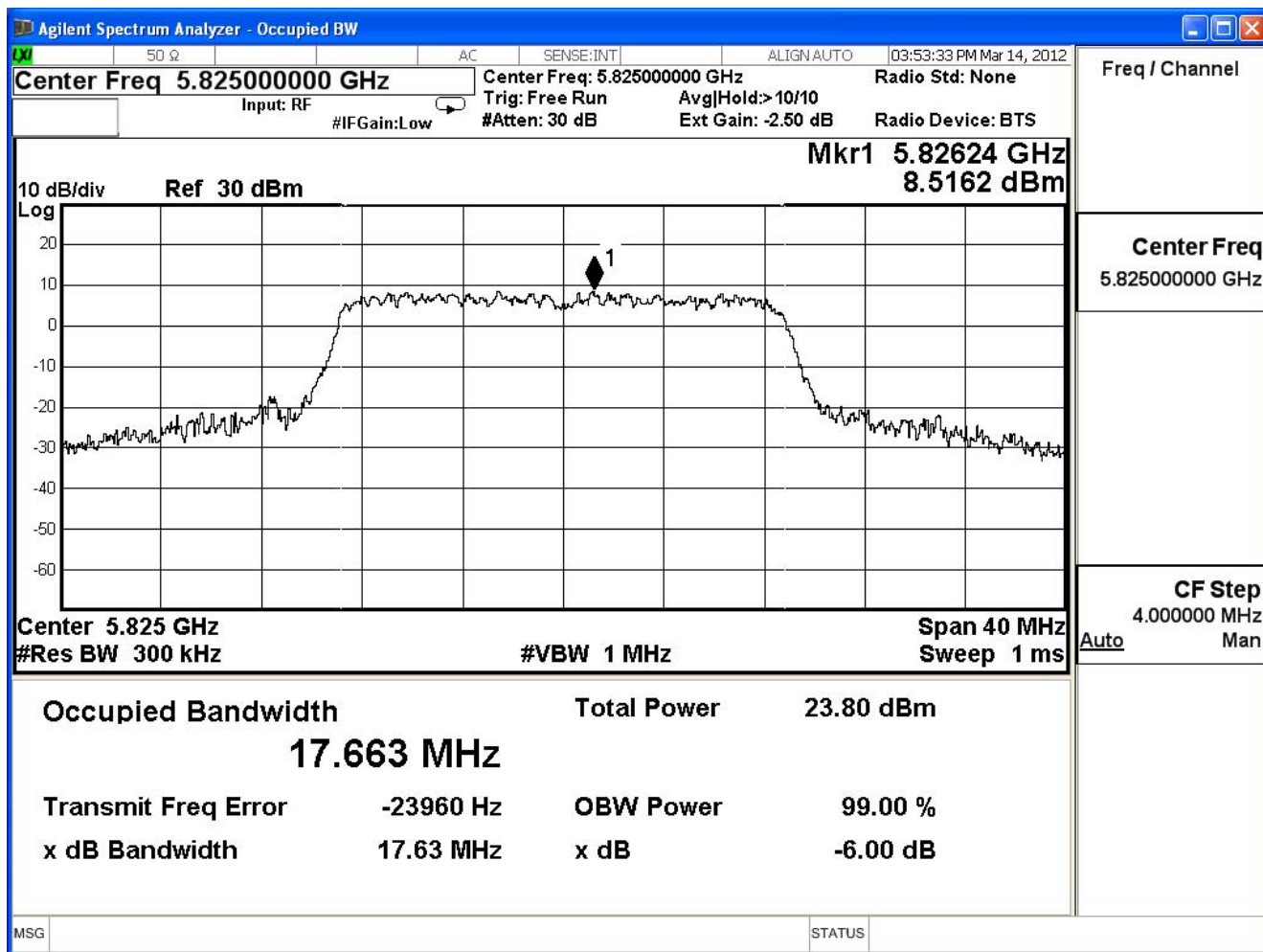
Channel 149



Channel 157



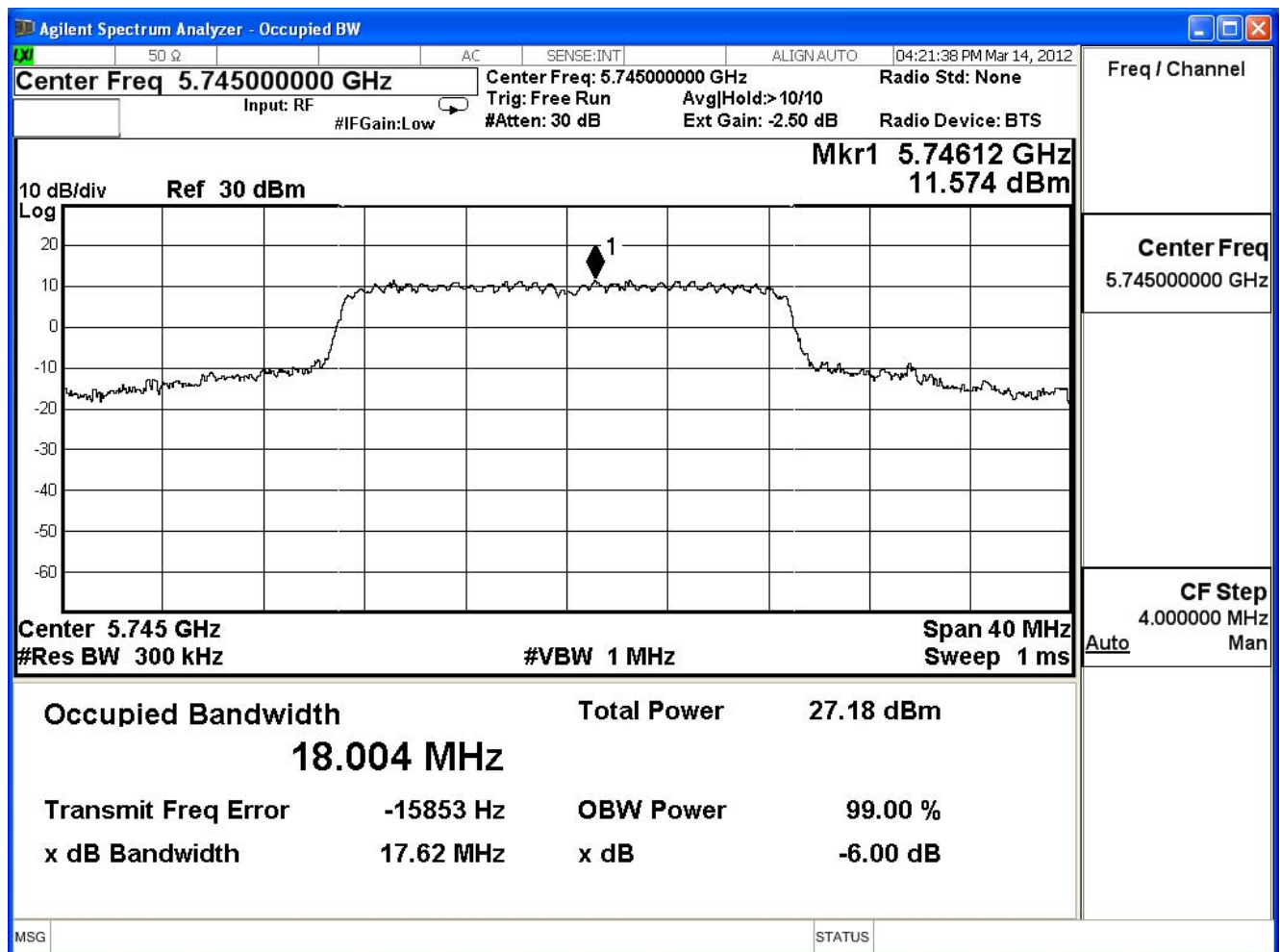
Channel 165



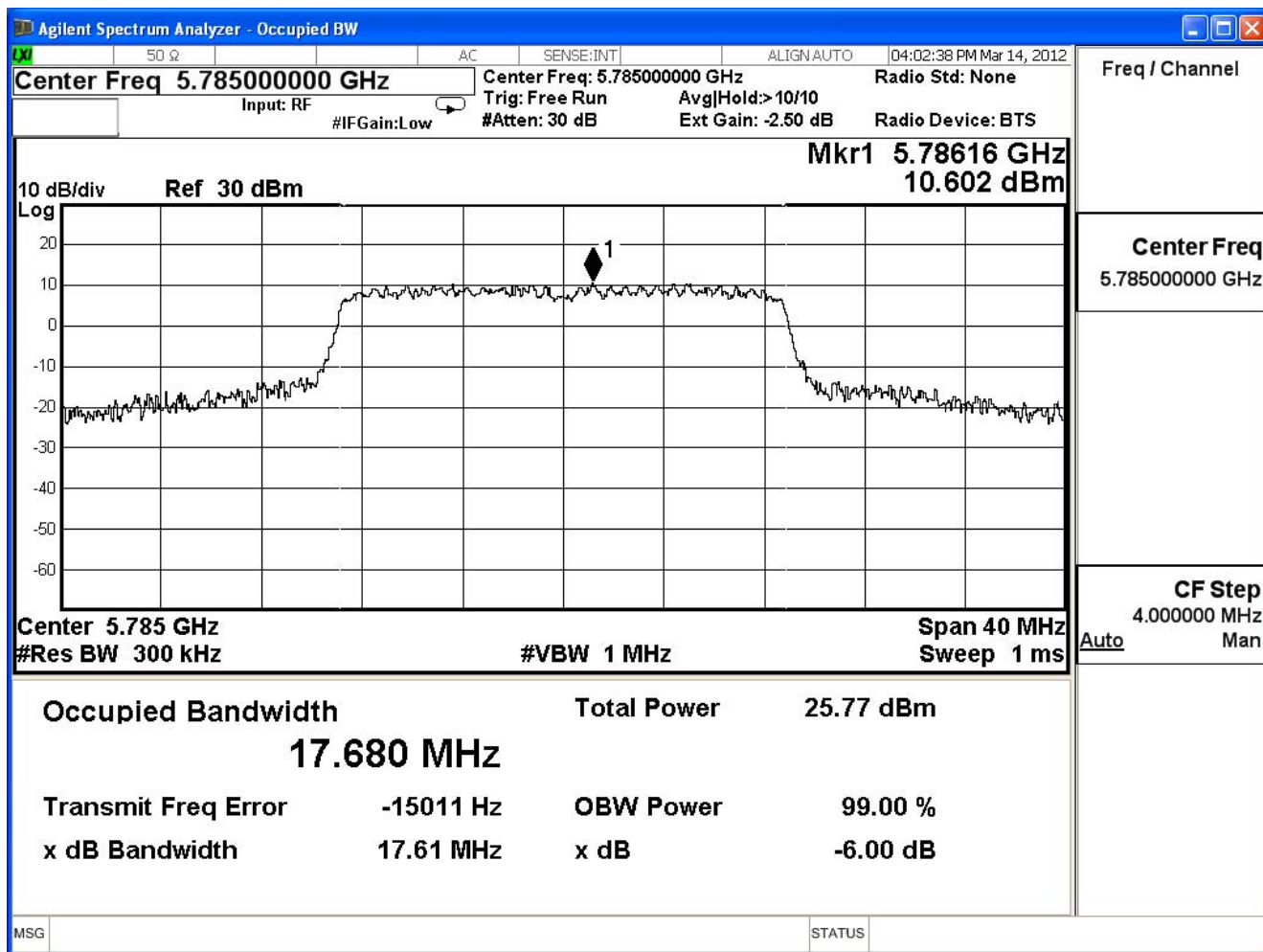
Product	Wireless Extender		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/03/14	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.62	≥ 0.5	Pass
157	5785	17.61	≥ 0.5	Pass
165	5825	17.58	≥ 0.5	Pass

Channel 149



Channel 157



Channel 165

