

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

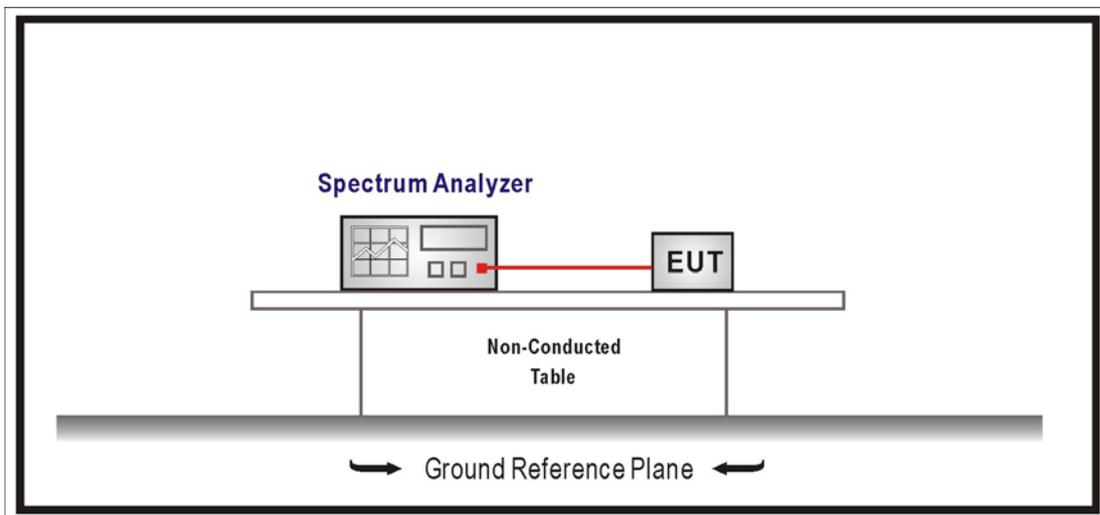
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2014/02/03

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

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

5.6. Uncertainty

Conducted is defined as ± 1.27 dB

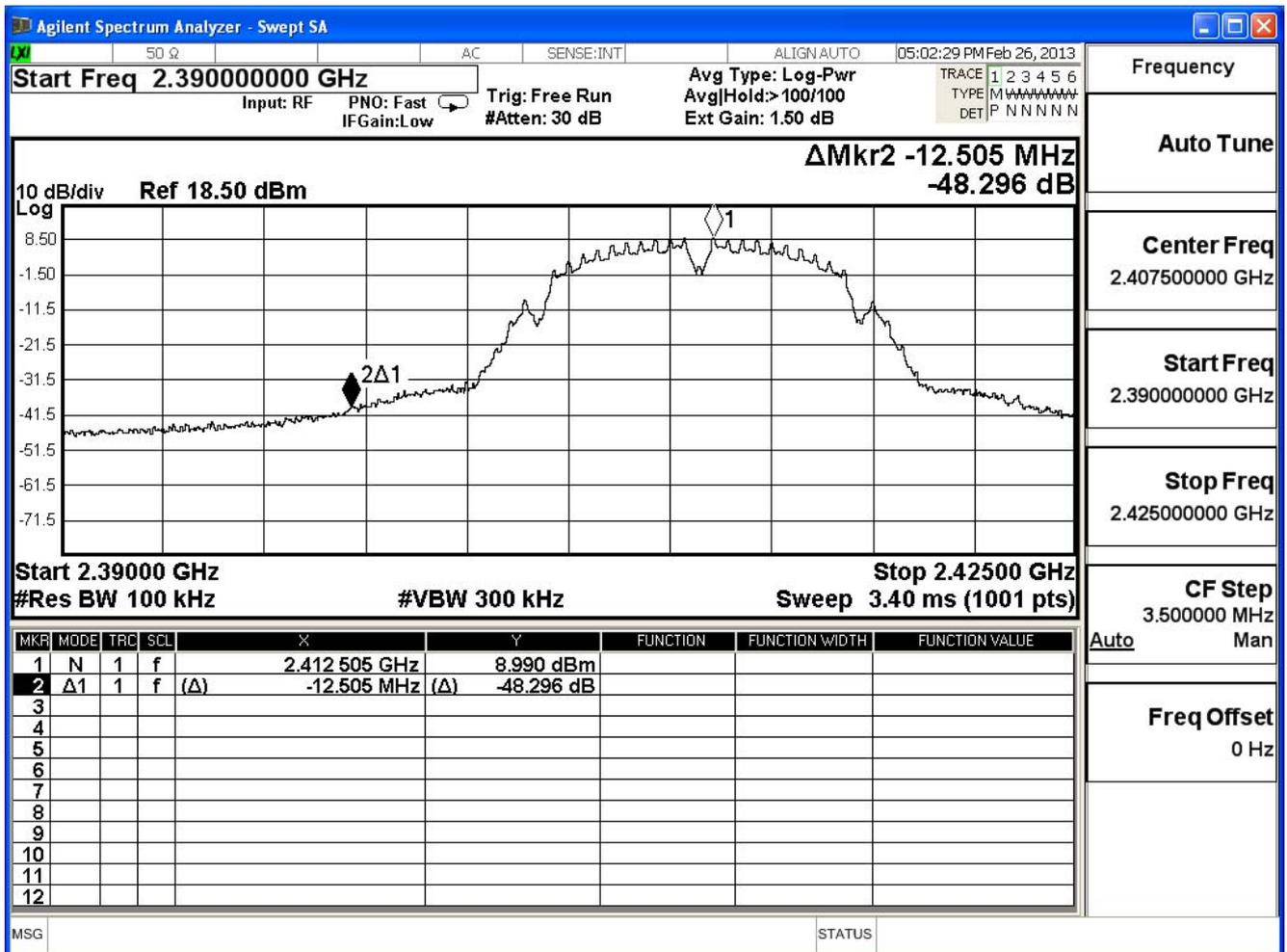
5.7. Test Result

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Transmit		
Date of Test	2013/02/26	Test Site	SR7

IEEE 802.11b, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	48.296	≥20	Pass
11	2462	48.676	≥20	Pass

Channel 01 (2412MHz)

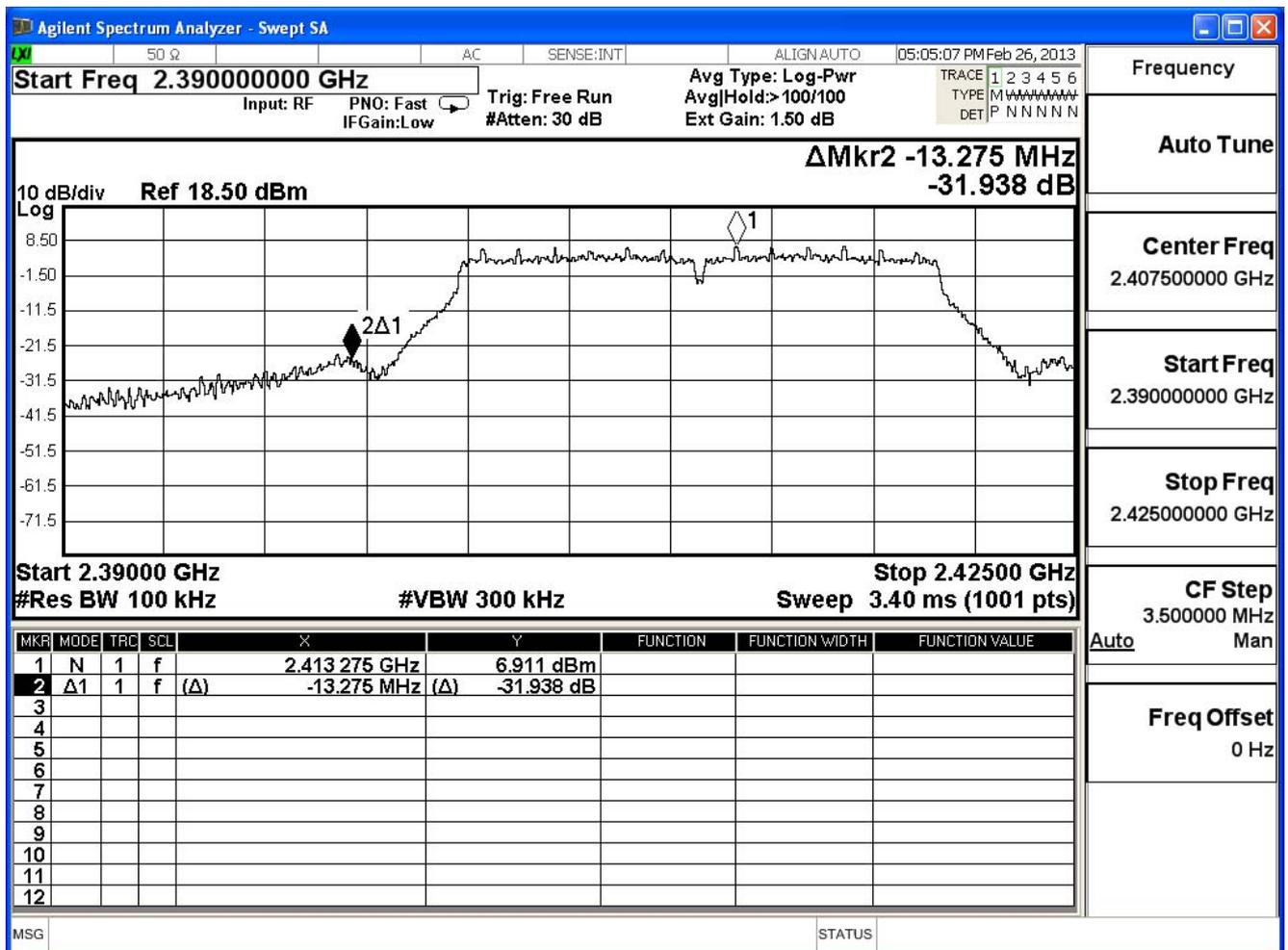


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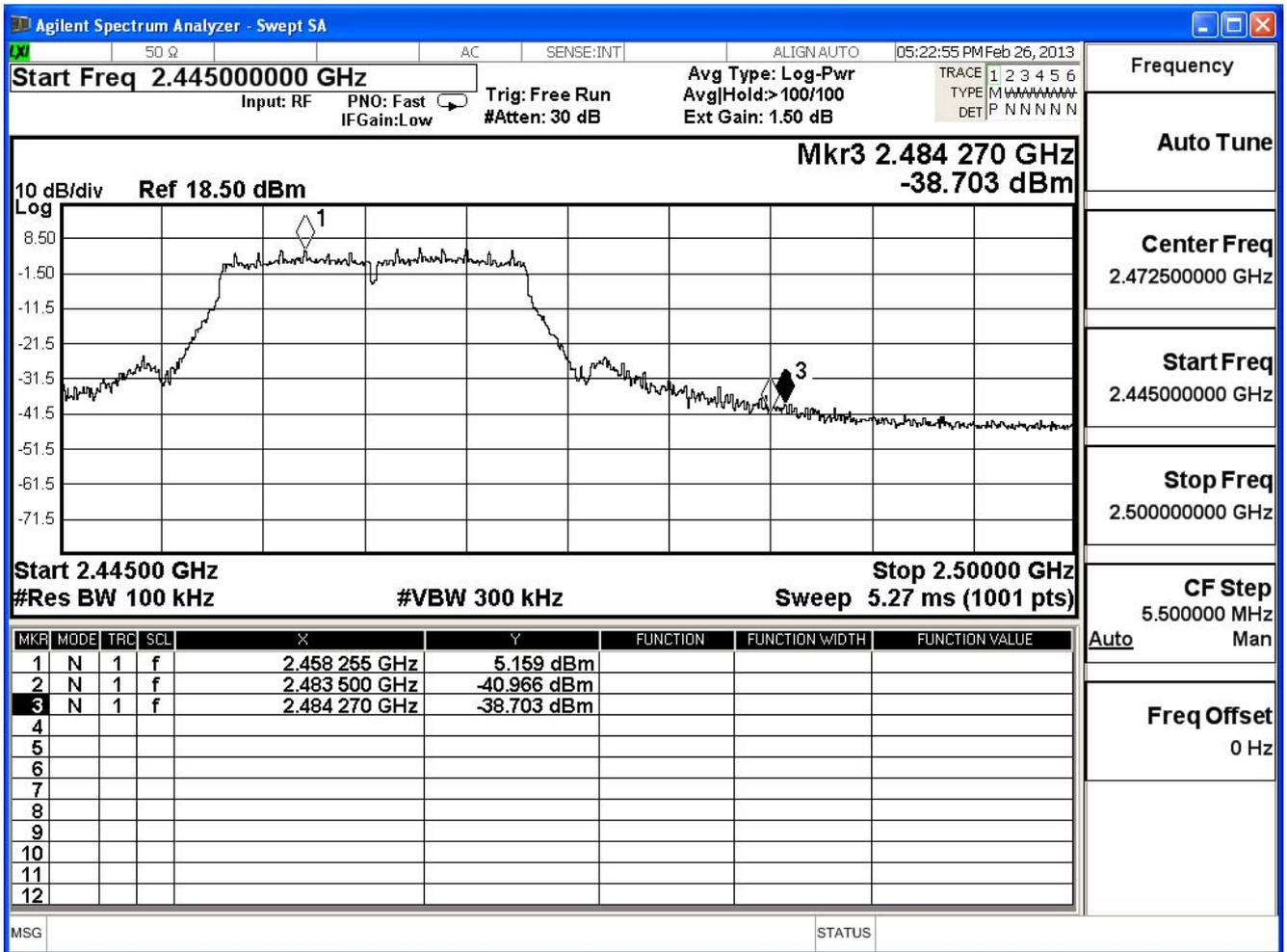
IEEE 802.11g, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.938	≥20	Pass
11	2462	38.703	≥20	Pass

Channel 01 (2412MHz)



Channel 11 (2462MHz)

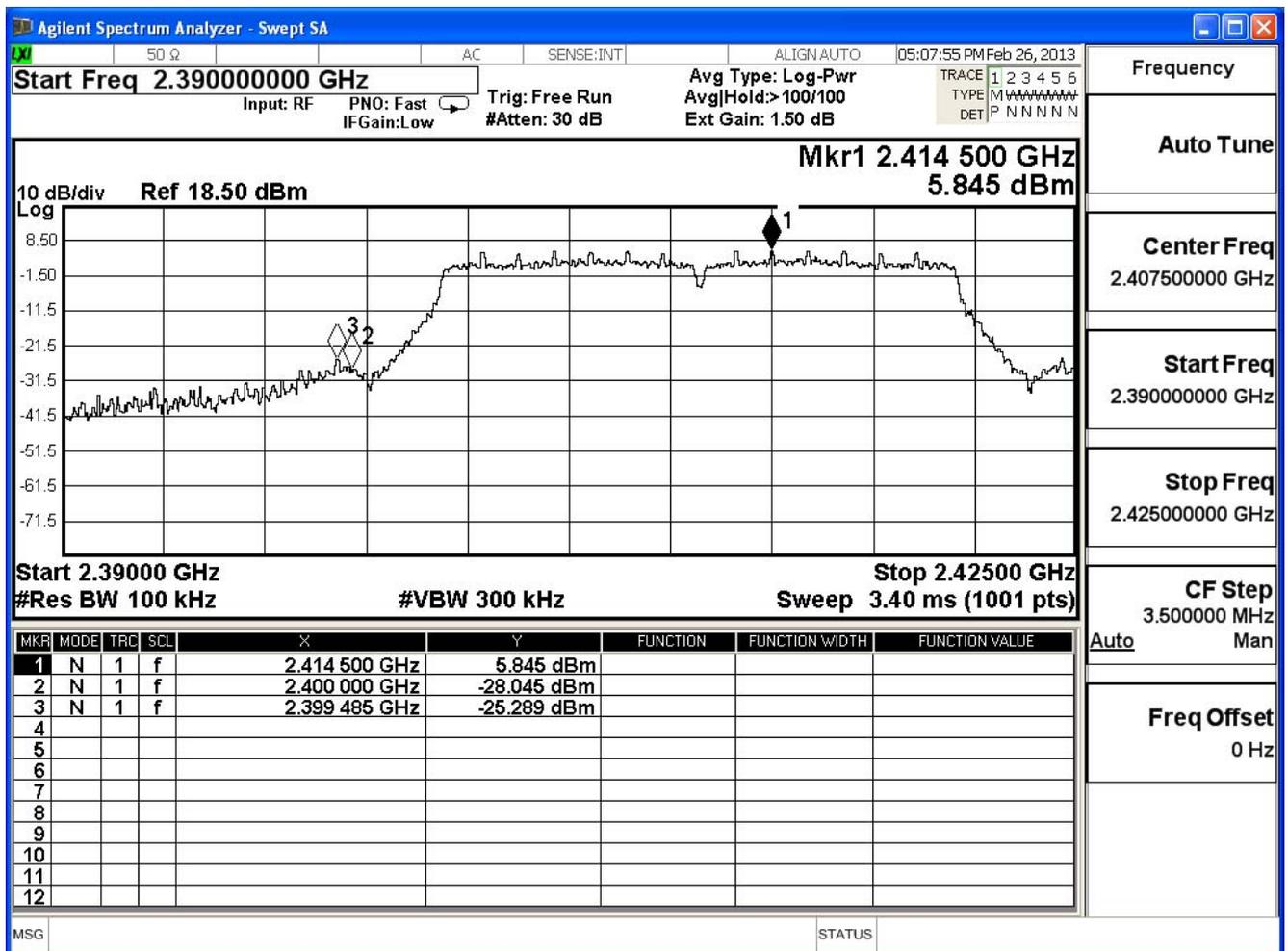


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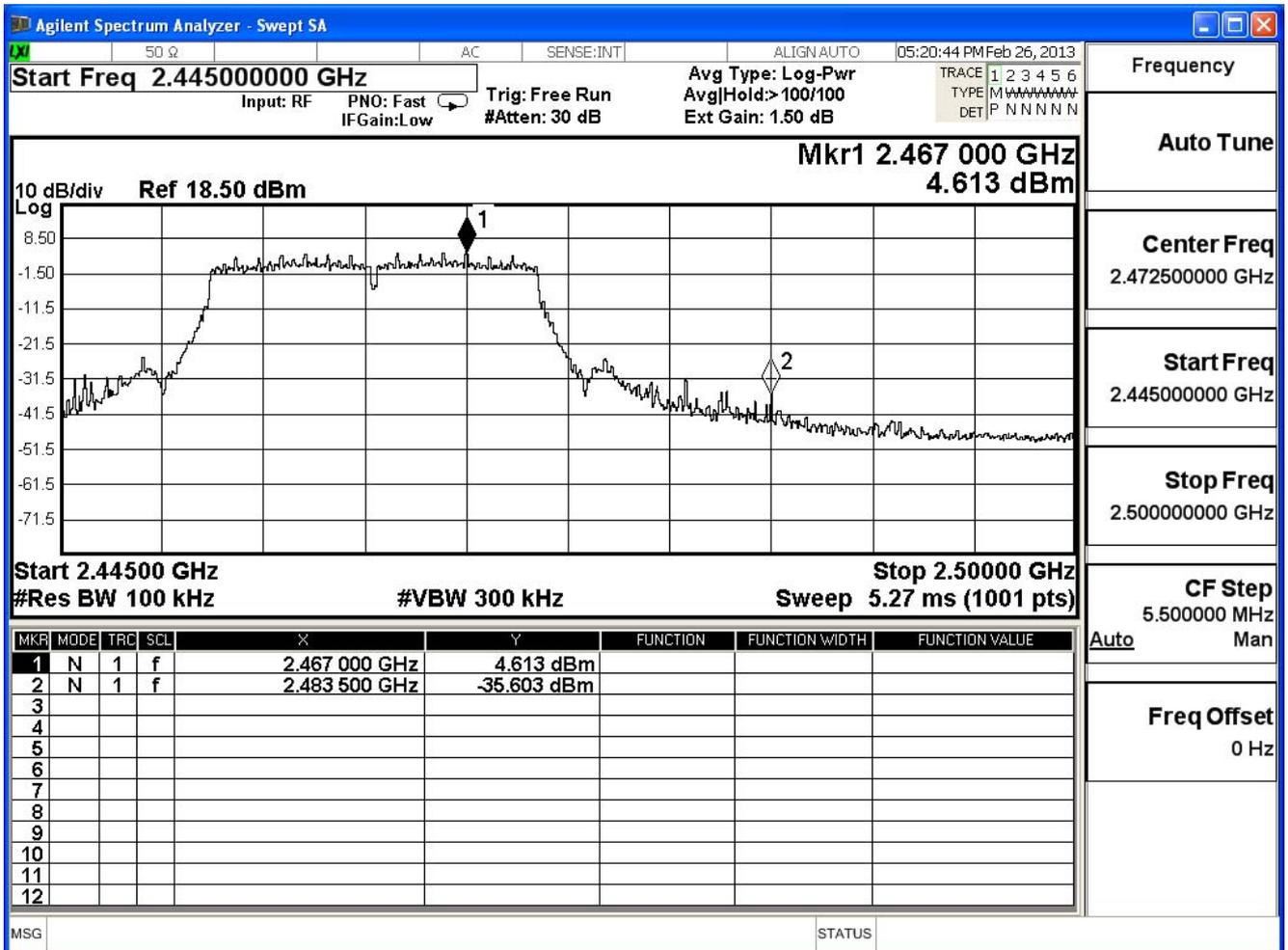
IEEE 802.11n (20MHz), (ANT 0) , Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	25.289	≥20	Pass
11	2462	35.603	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

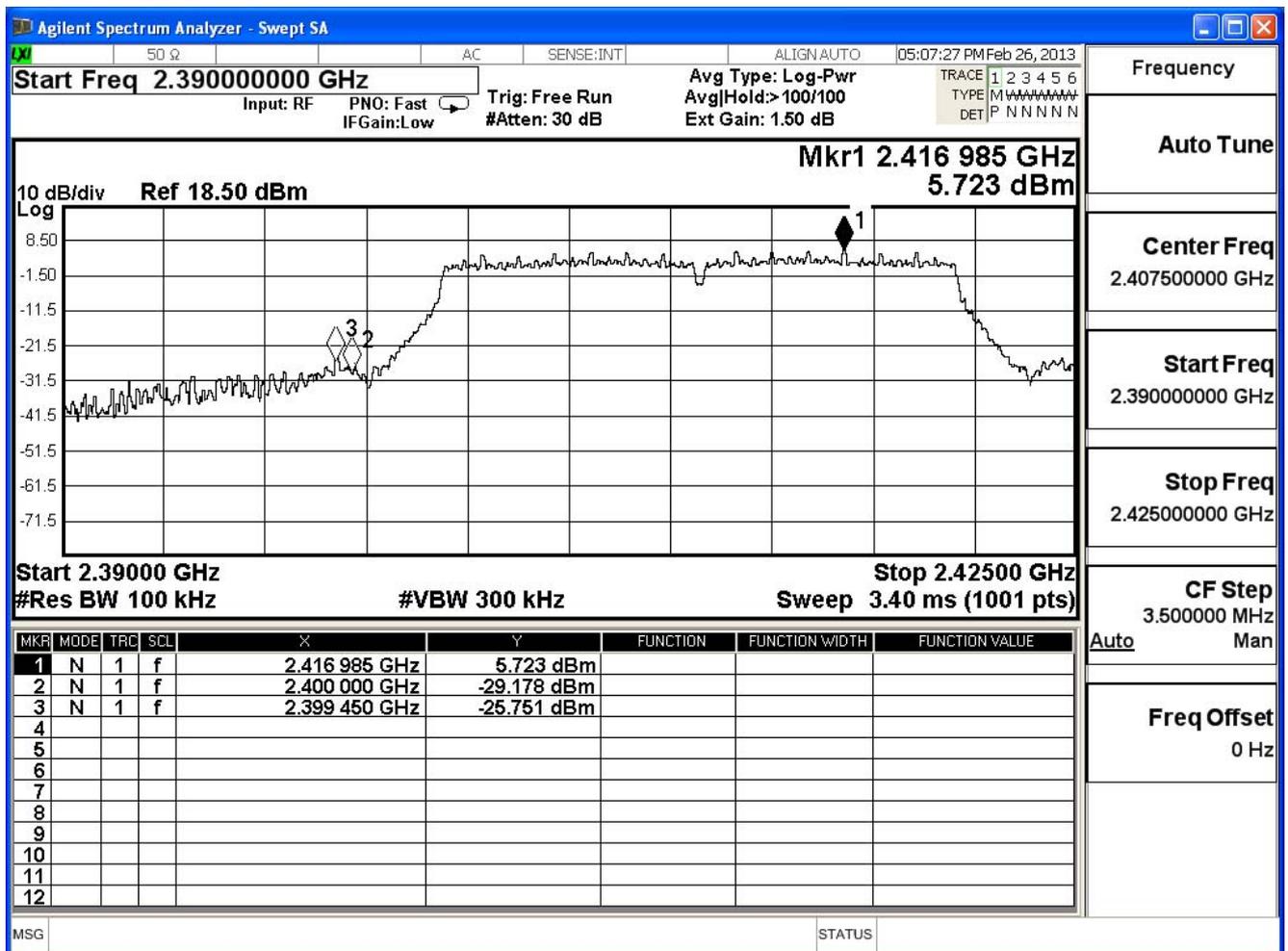


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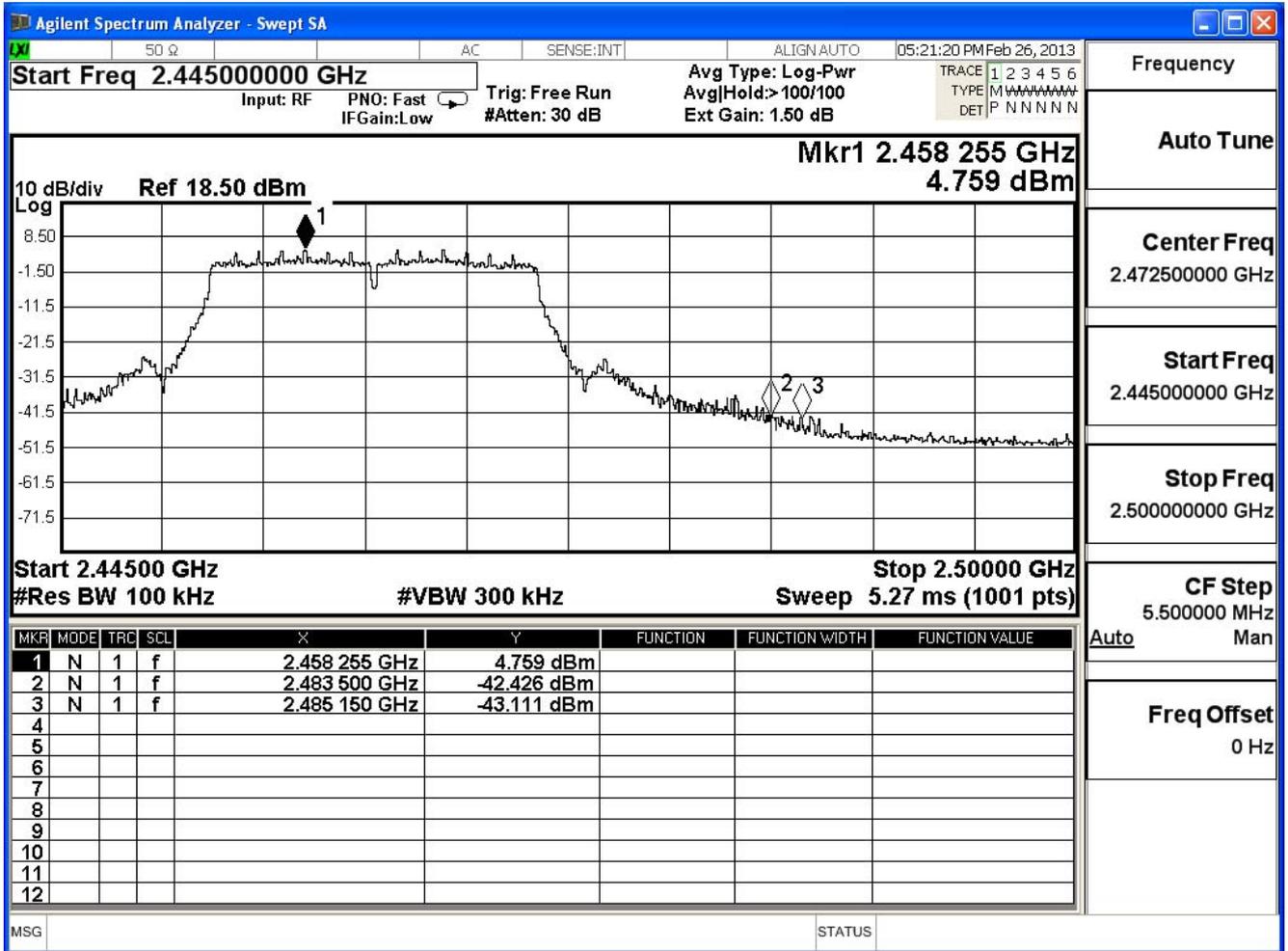
IEEE 802.11n (20MHz), (ANT 1) , Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	25.751	≥20	Pass
11	2462	42.426	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

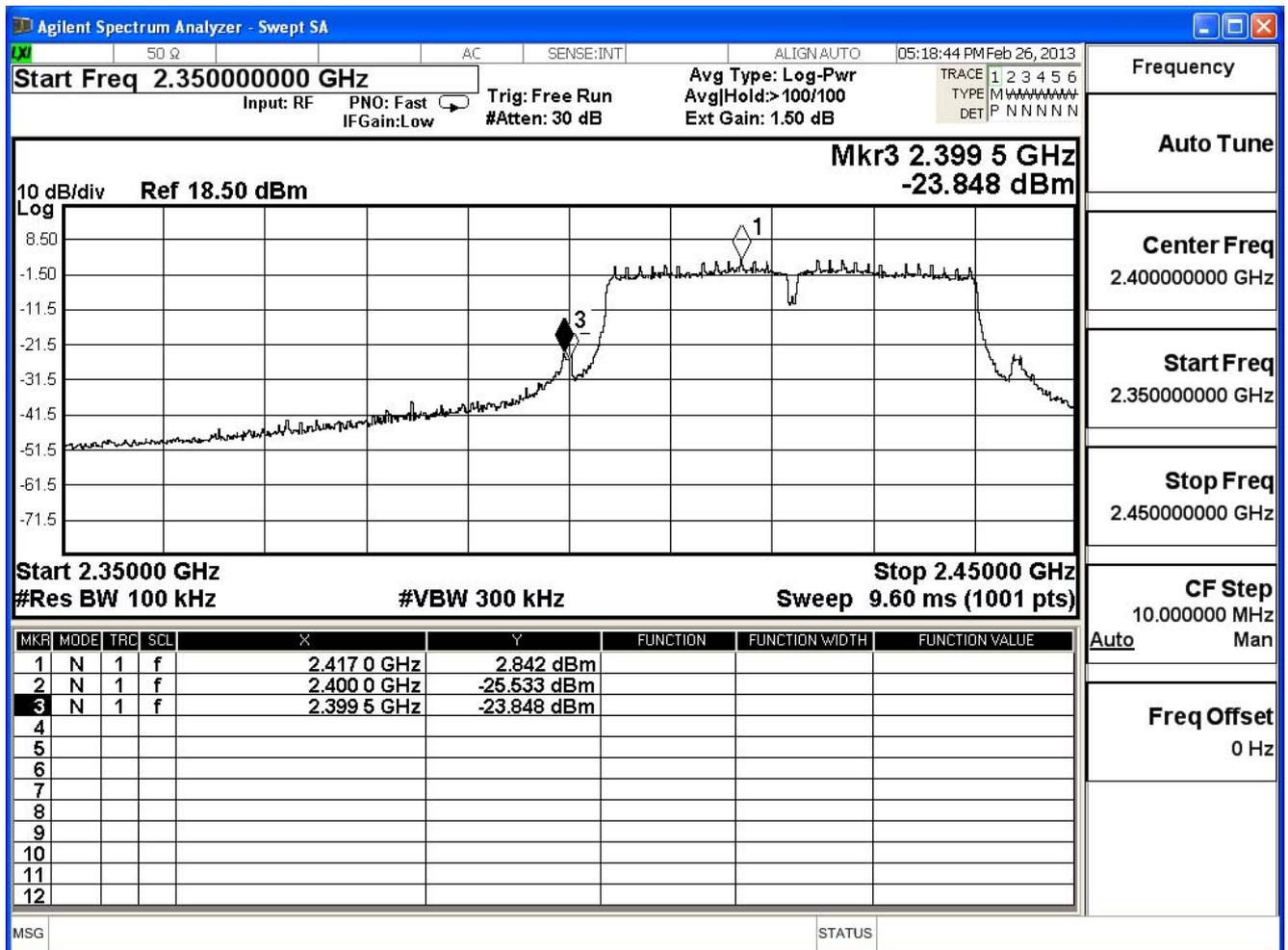


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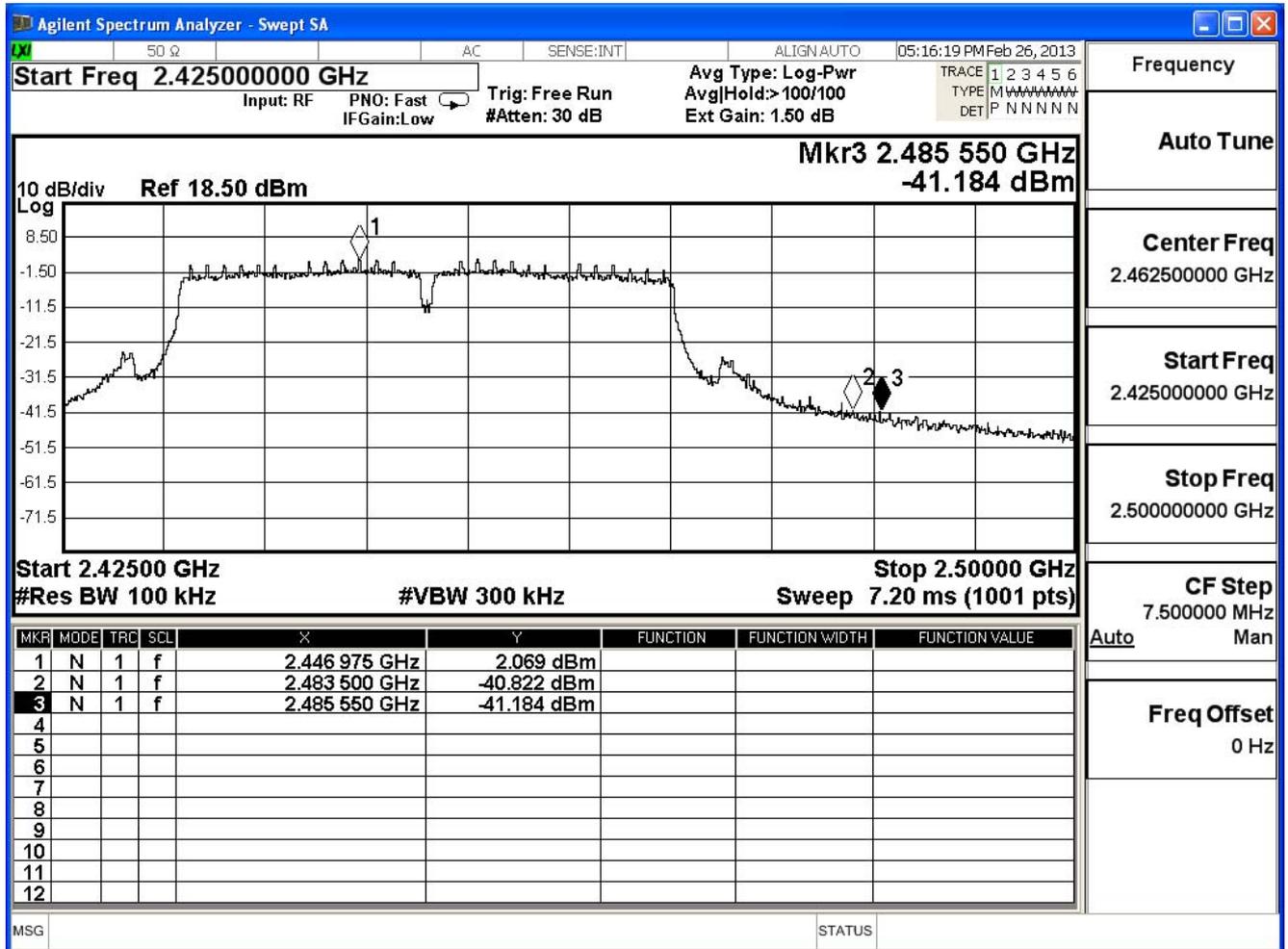
IEEE 802.11n (40MHz), (ANT 0) , Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	23.848	≥20	Pass
9	2452	41.184	≥20	Pass

Channel 3 (2422MHz)



Channel 9 (2452MHz)

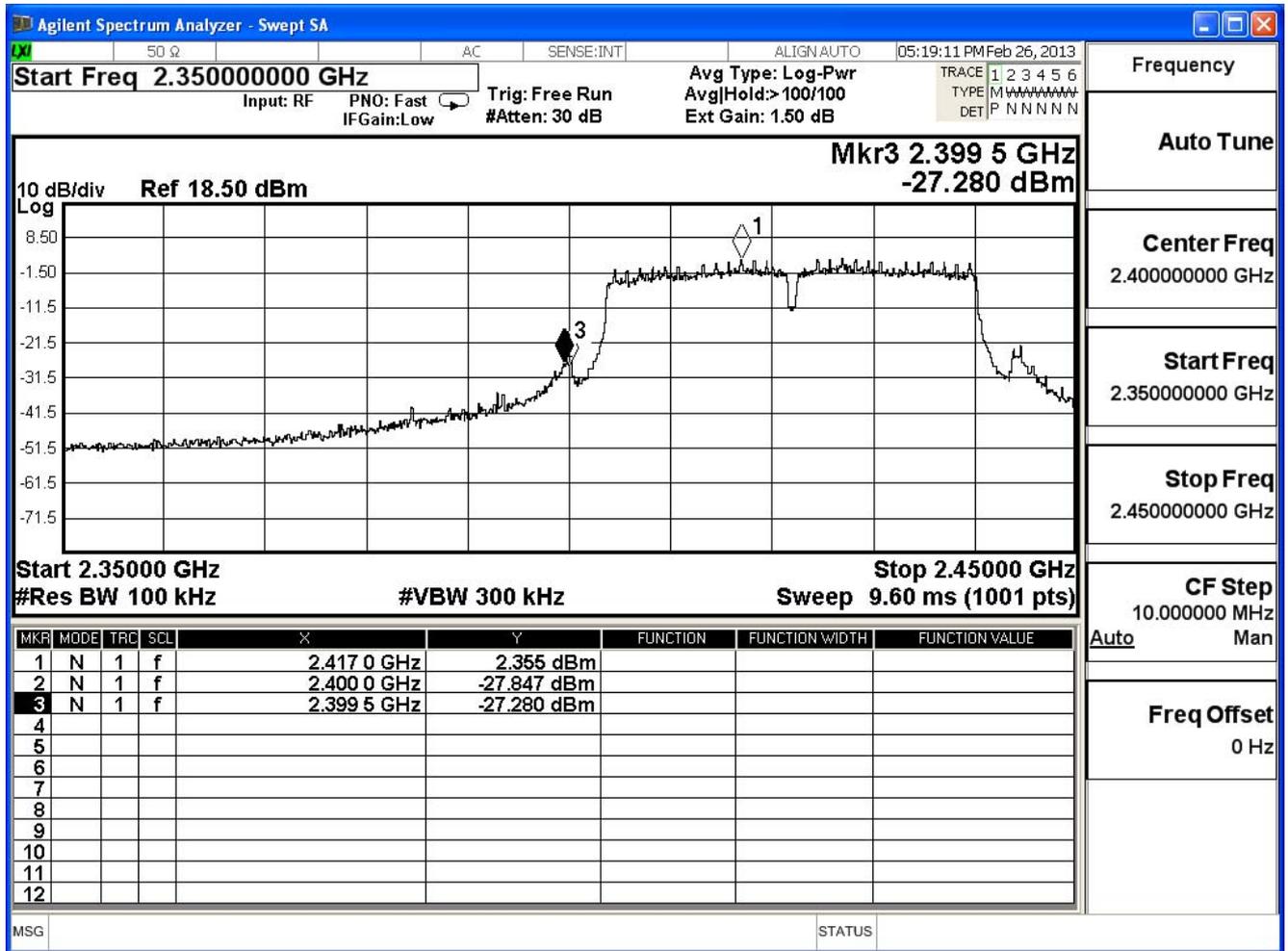


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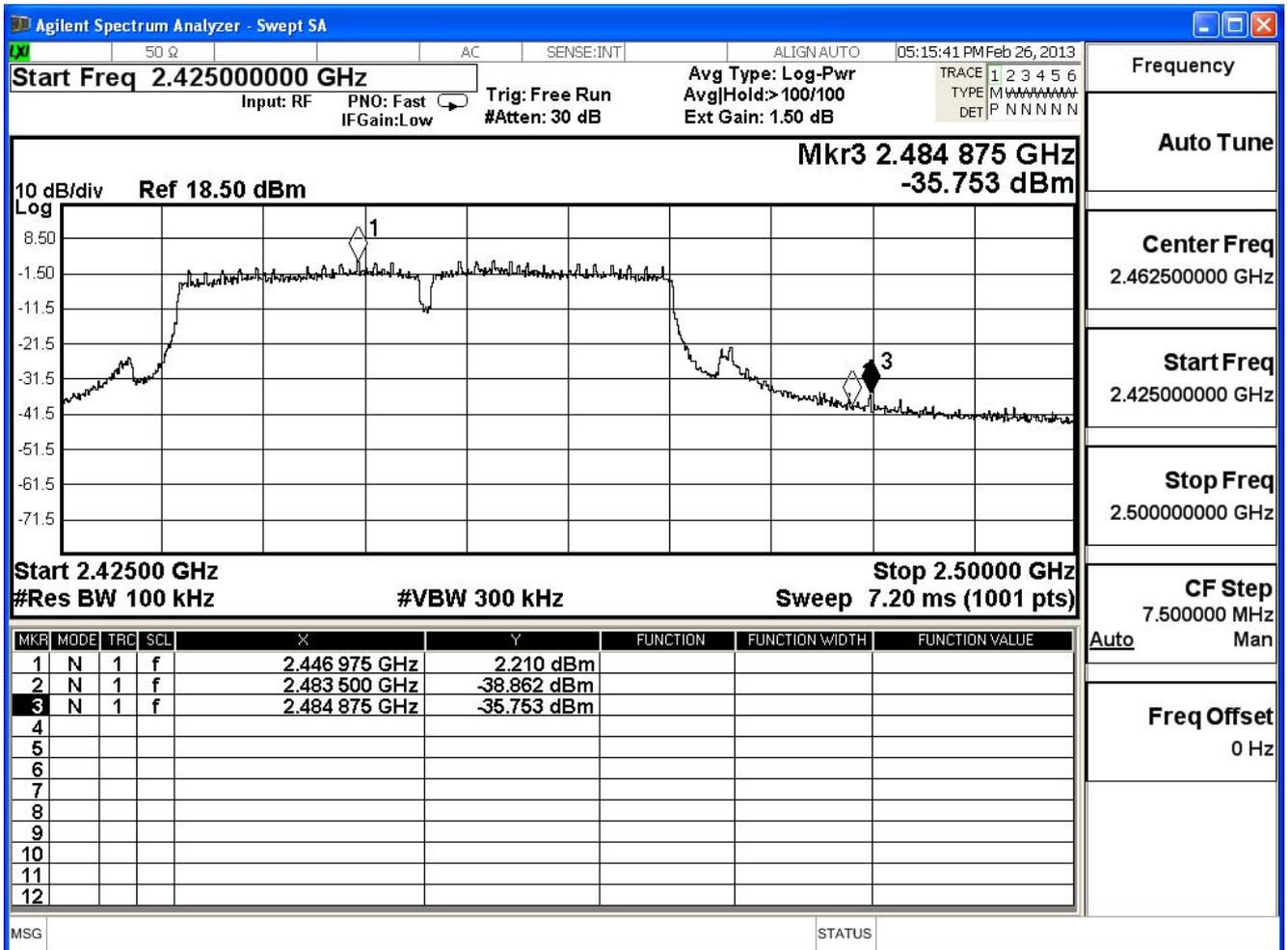
IEEE 802.11n (40MHz), (ANT 1), Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	27.280	≥20	Pass
9	2452	35.753	≥20	Pass

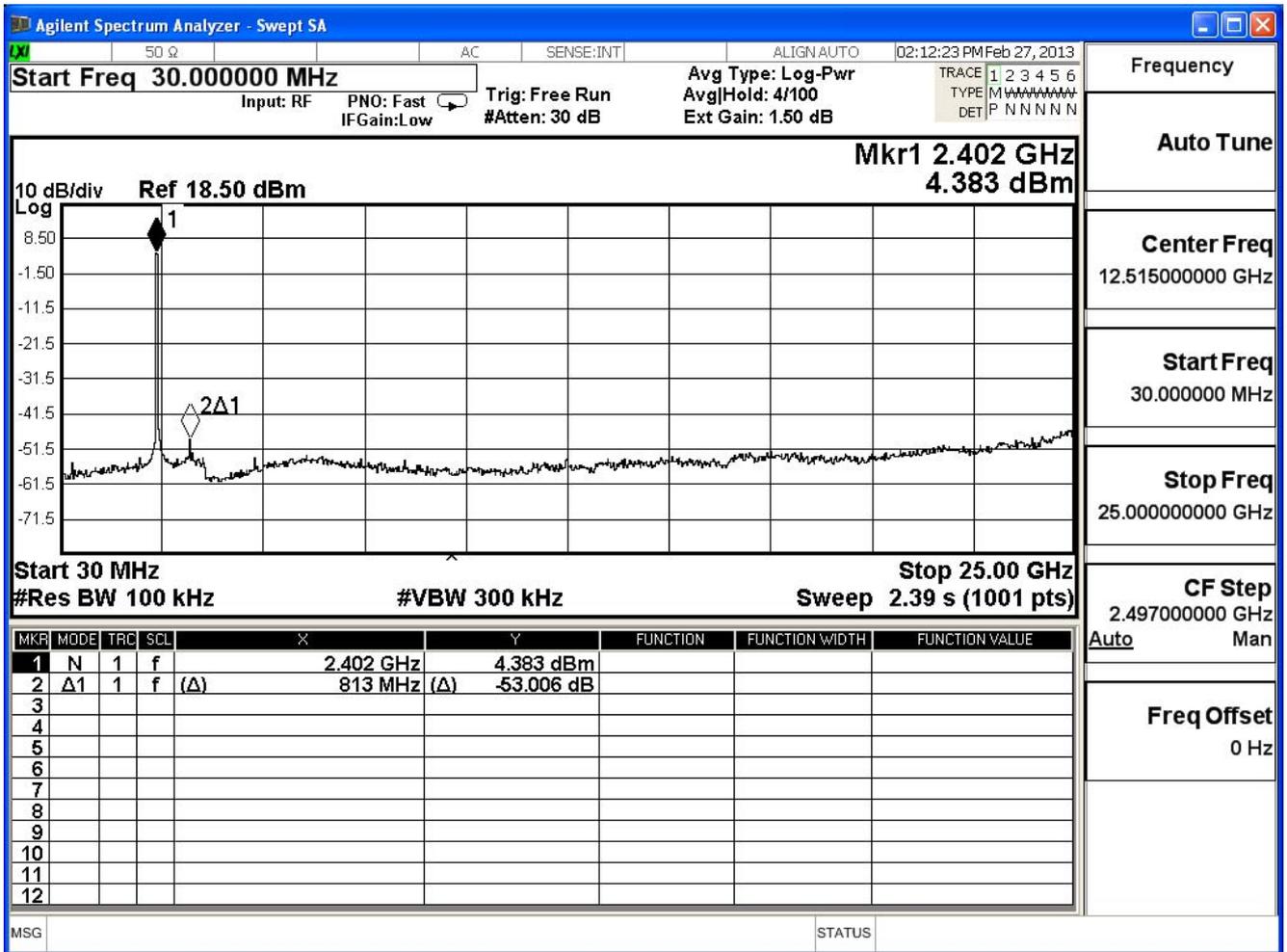
Channel 3 (2422MHz)



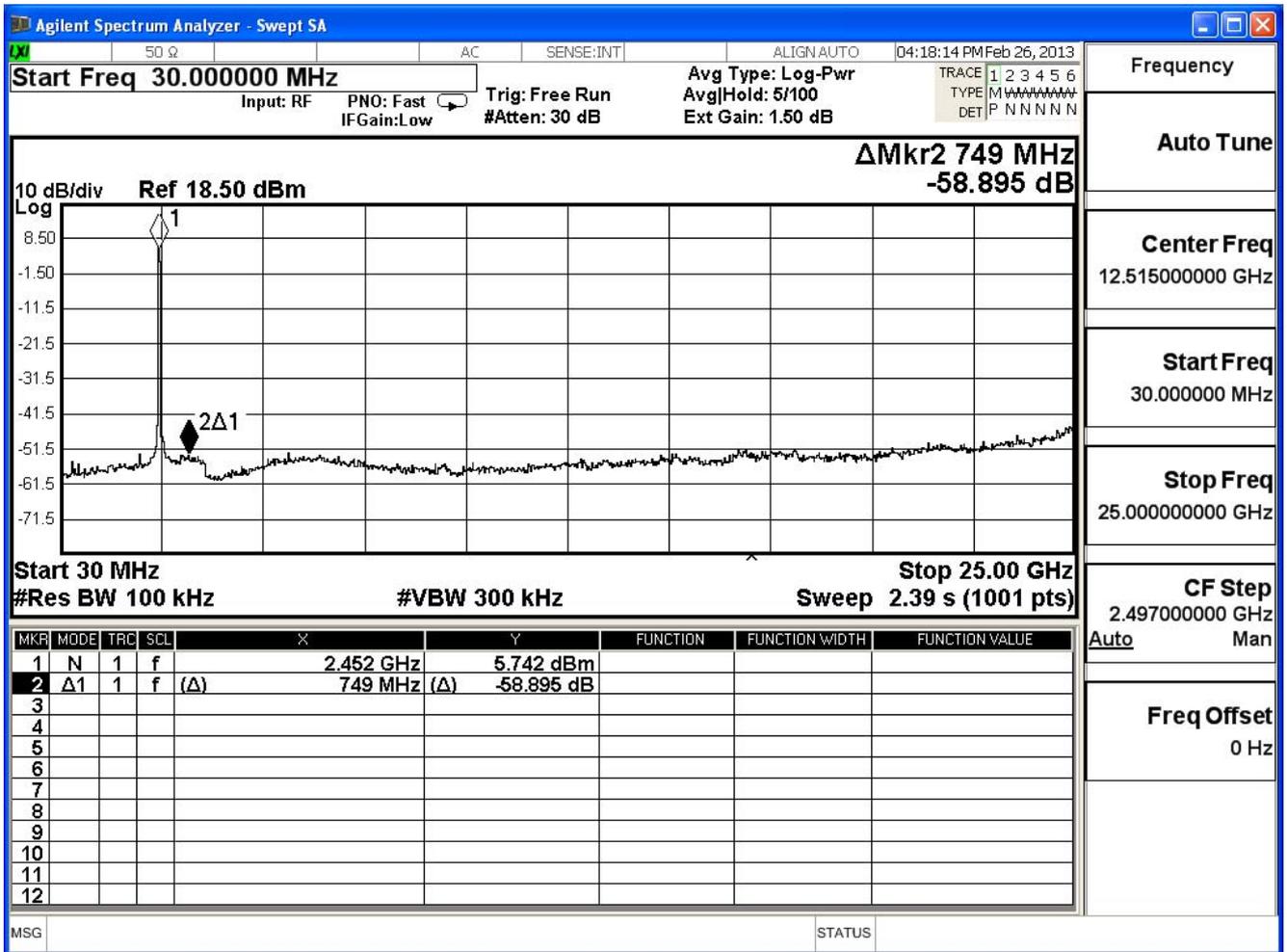
Channel 9 (2452MHz)



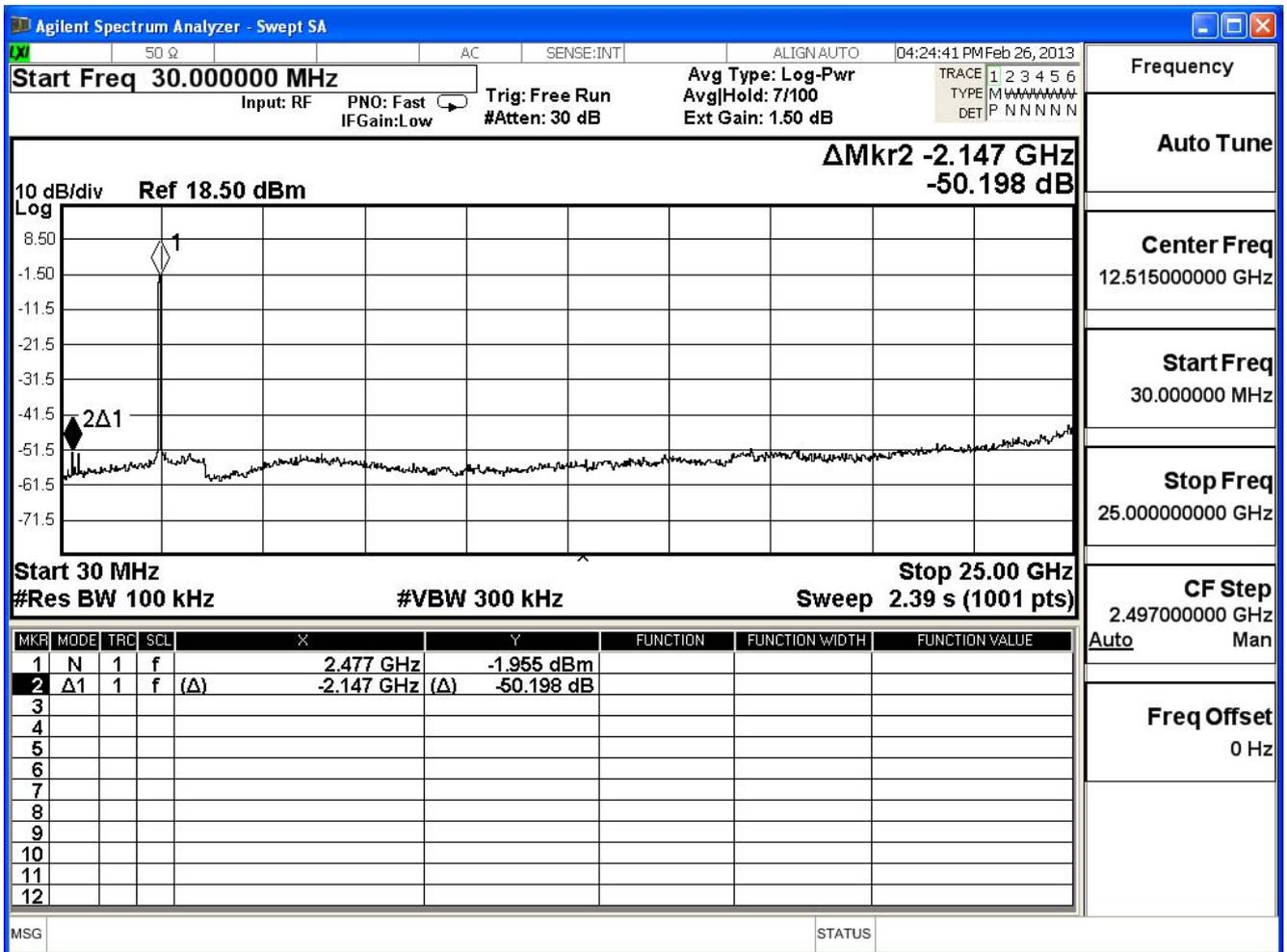
2412MHz (30MHz-25GHz)-802.11g



2462MHz (30MHz-25GHz) -802.11g



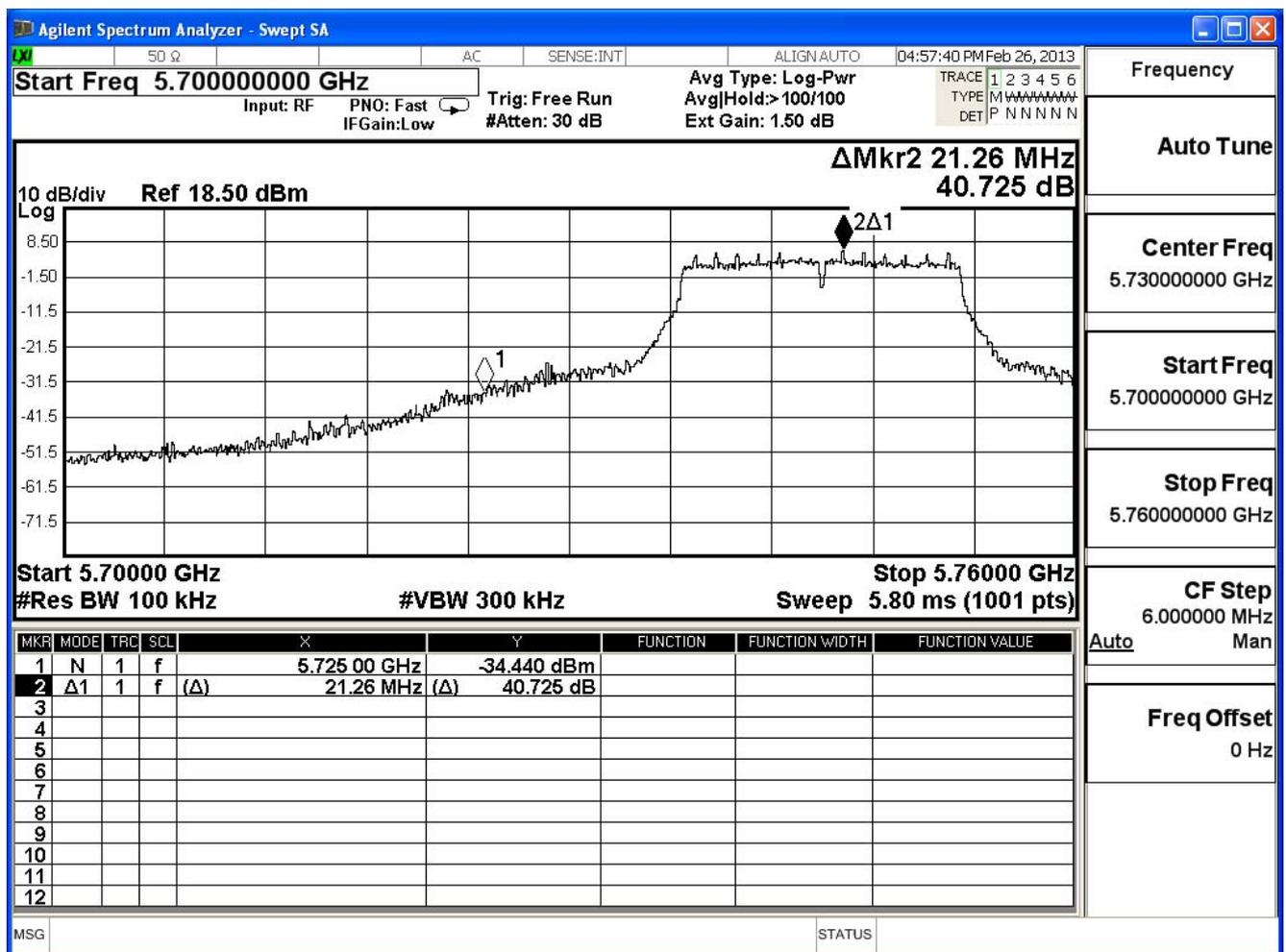
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0



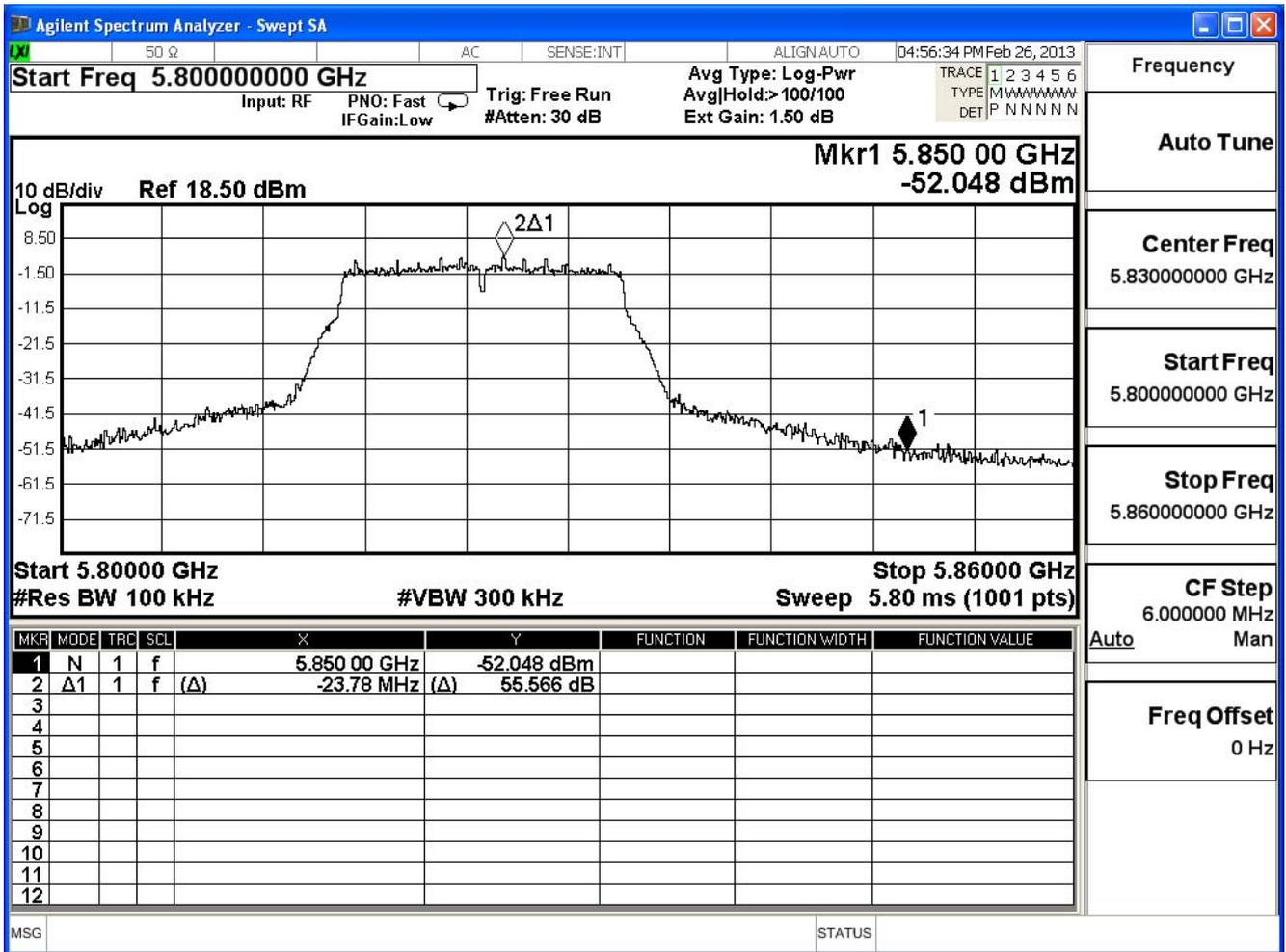
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IEEE 802.11a, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	40.725	≥20	Pass
165	5825	55.566	≥20	Pass

Channel 149 (5745MHz)



Channel 165 (5825MHz)

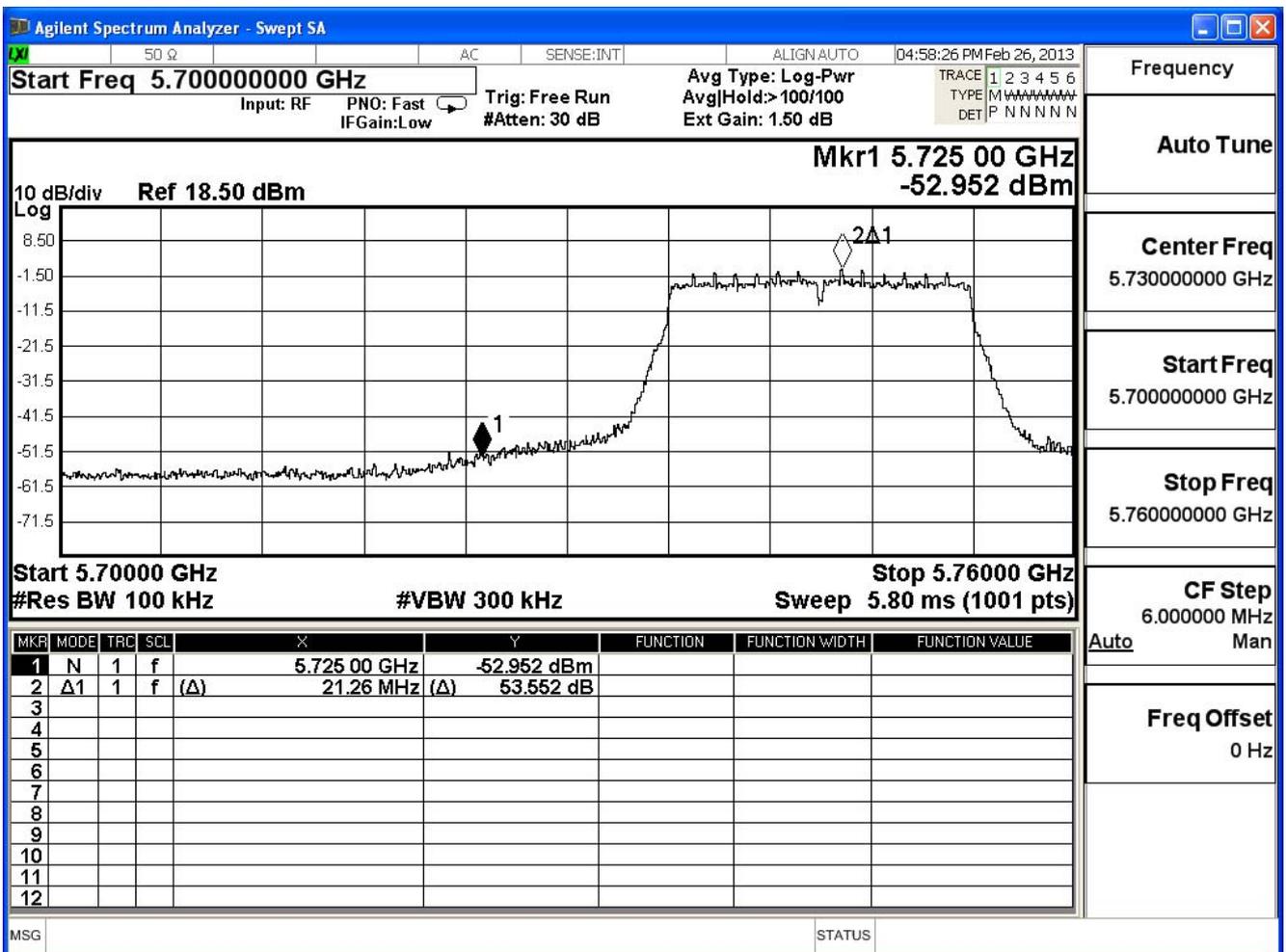


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IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	53.552	≥ 20	Pass
165	5825	44.973	≥ 20	Pass

Channel 149 (5745MHz)

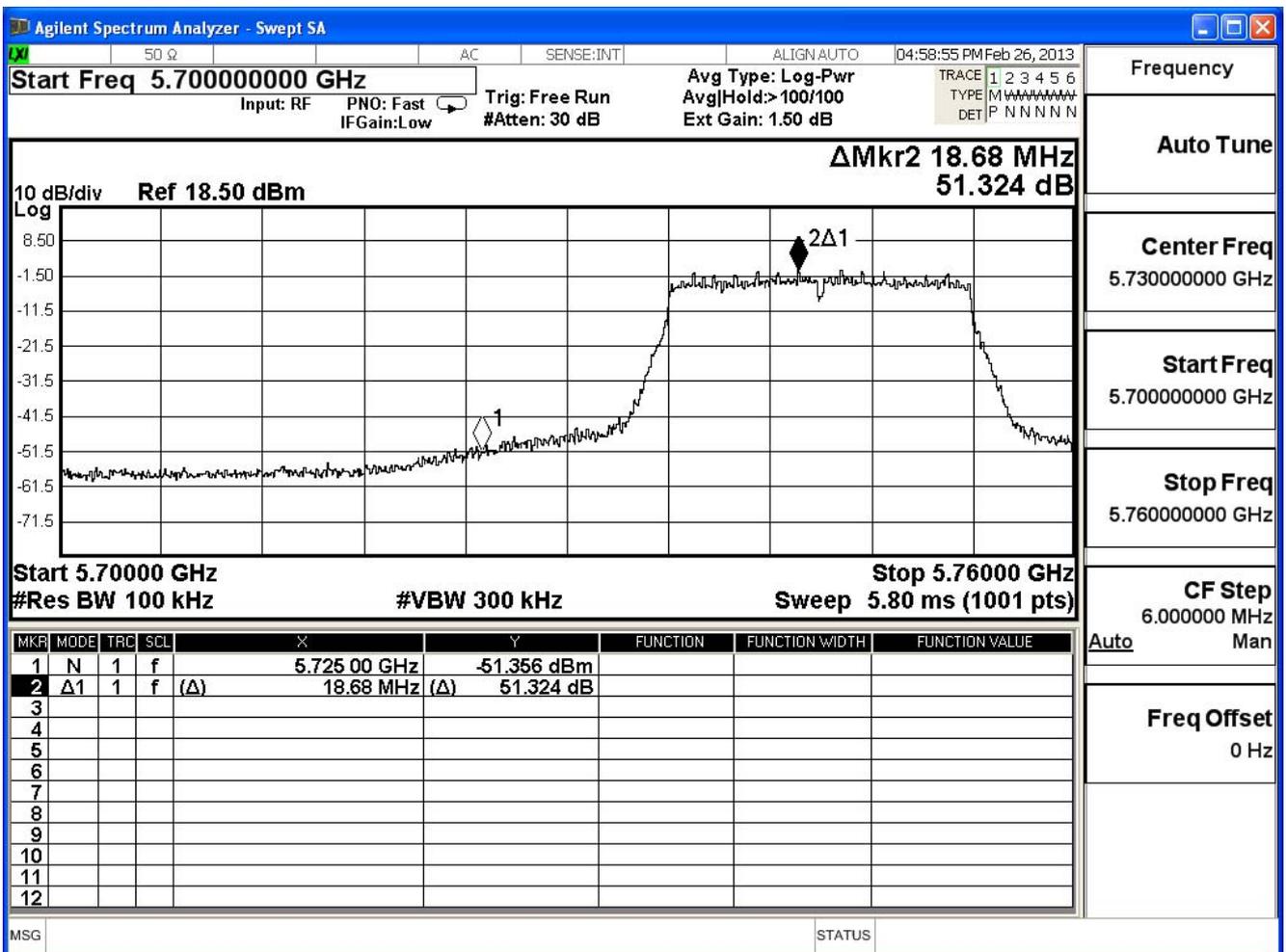


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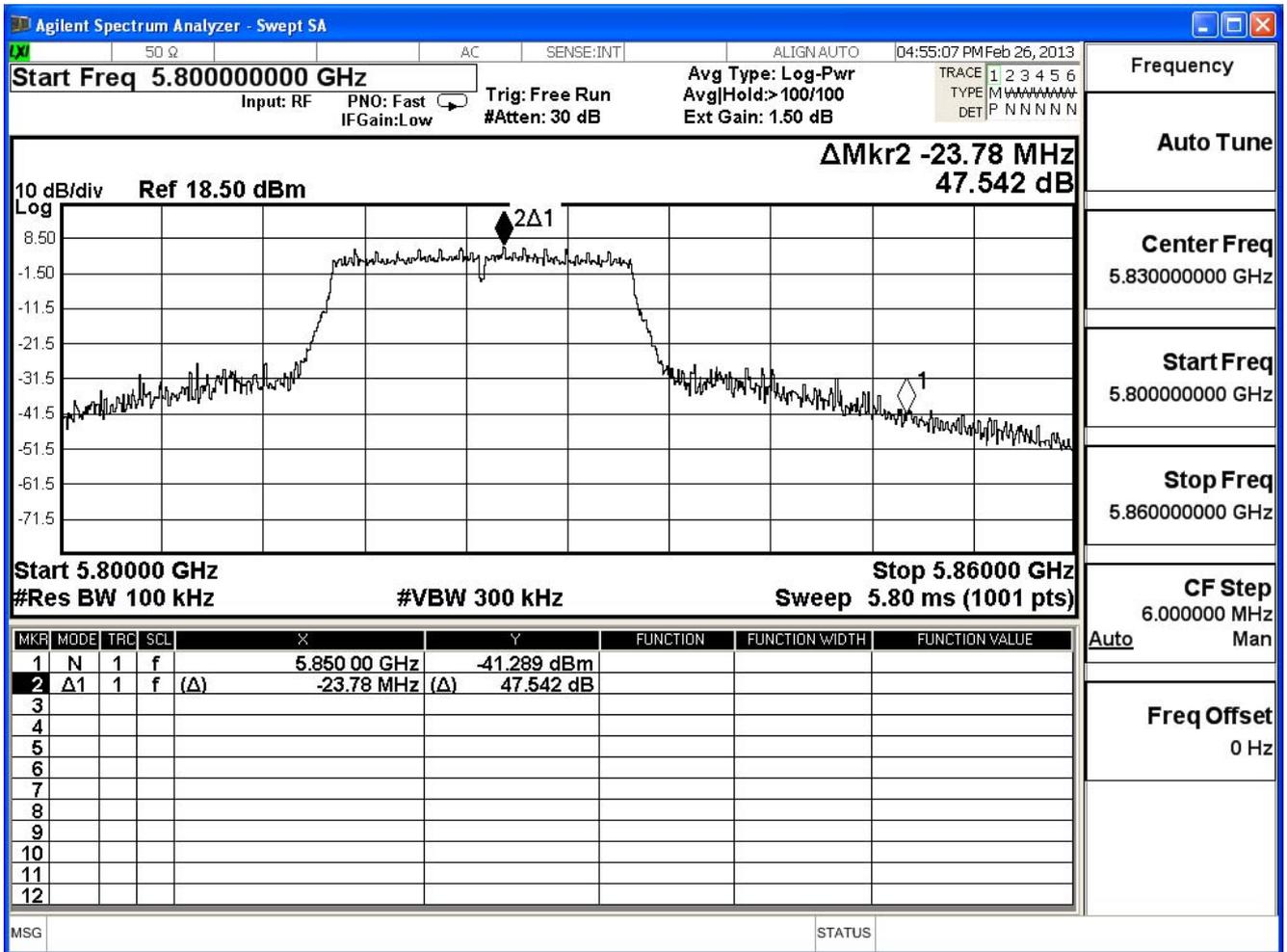
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	51.324	≥ 20	Pass
165	5825	47.542	≥ 20	Pass

Channel 149 (5745MHz)



Channel 165 (5825MHz)

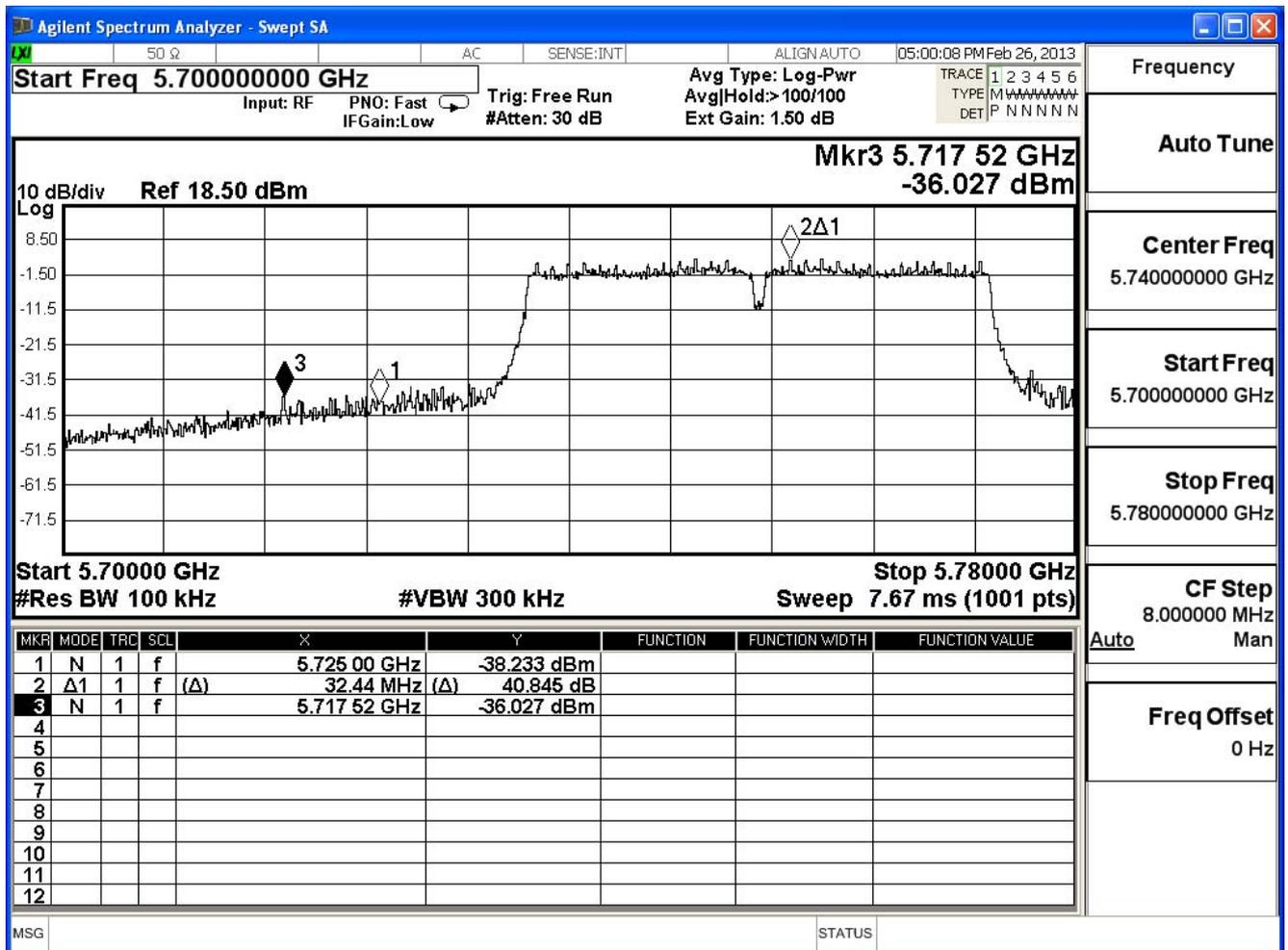


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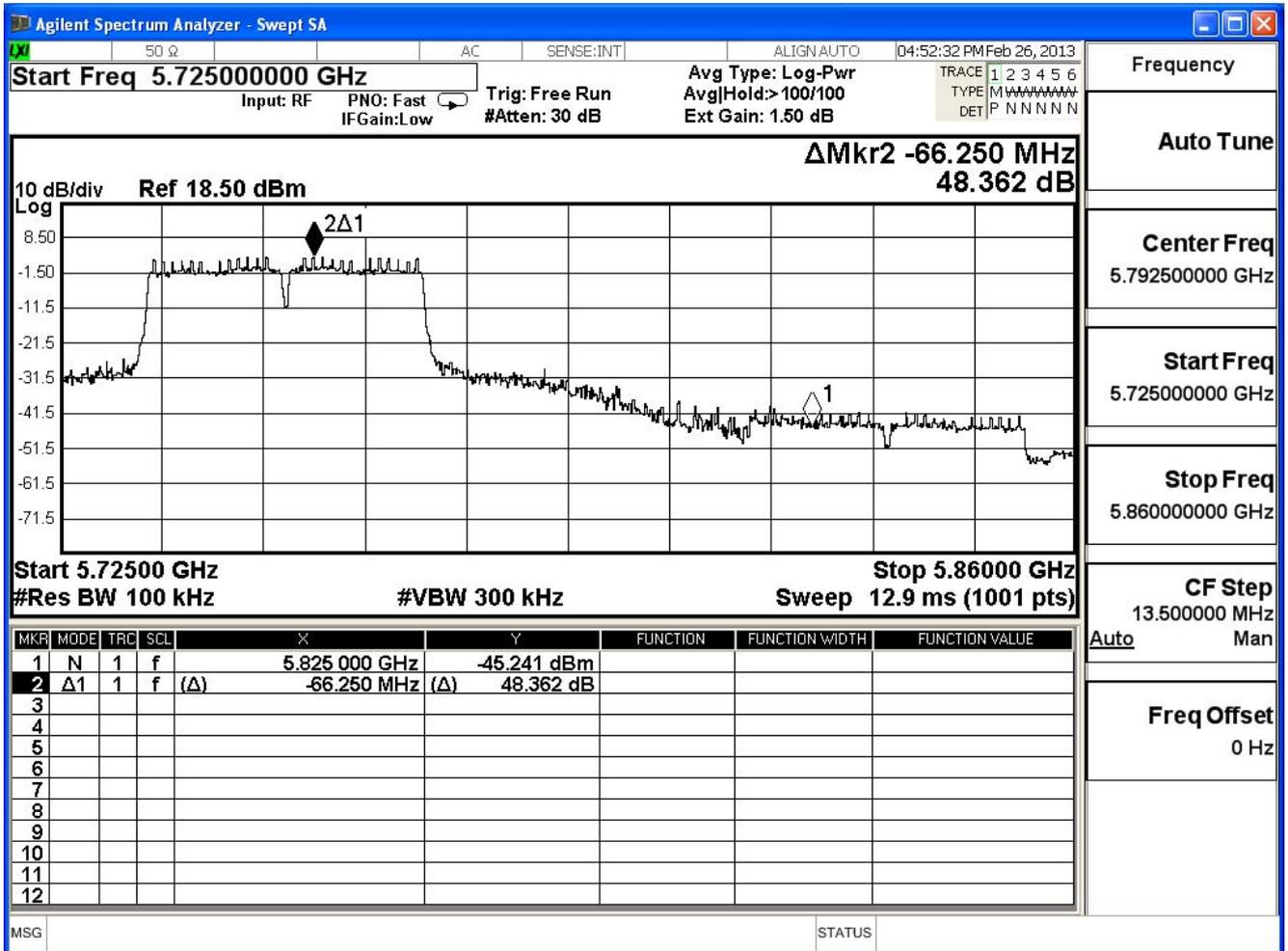
IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	40.845	≥ 20	Pass
159	5795	48.362	≥ 20	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

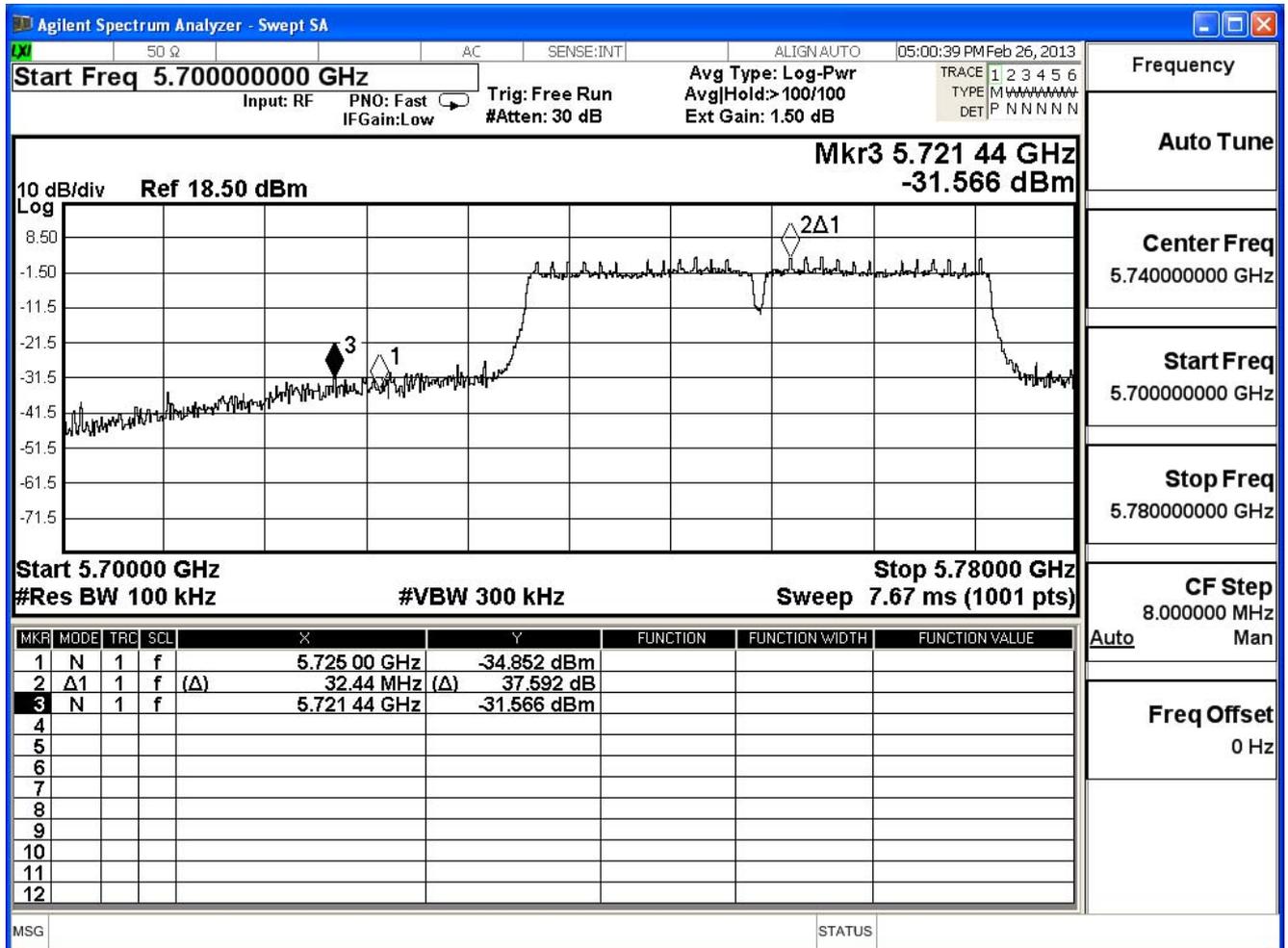


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IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	37.592	≥ 20	Pass
159	5795	47.900	≥ 20	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

