

5. Peak Power Spectrum Density

5.1. Test Equipment

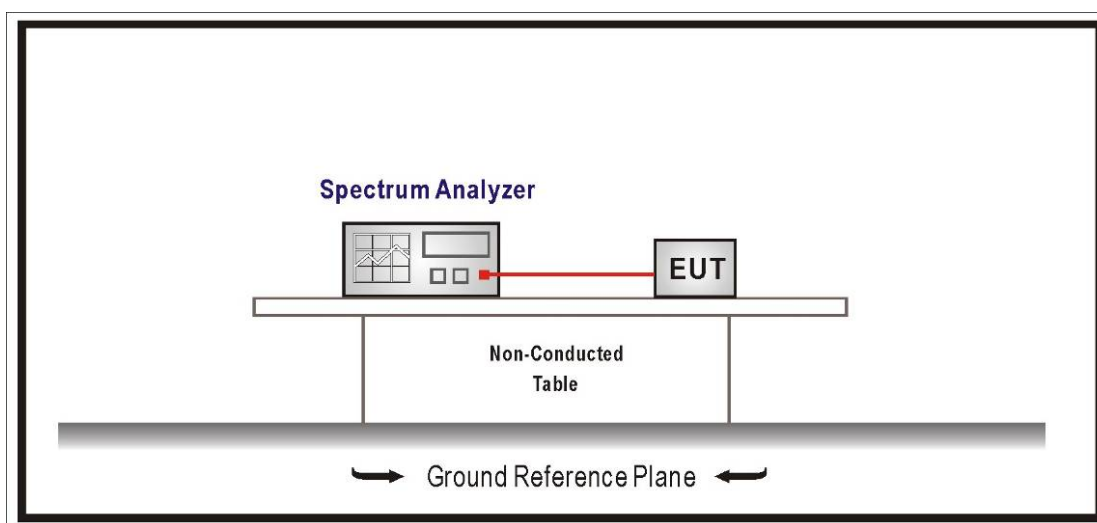
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

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

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi..

5.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033.D02 V01r04 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.5. Uncertainty

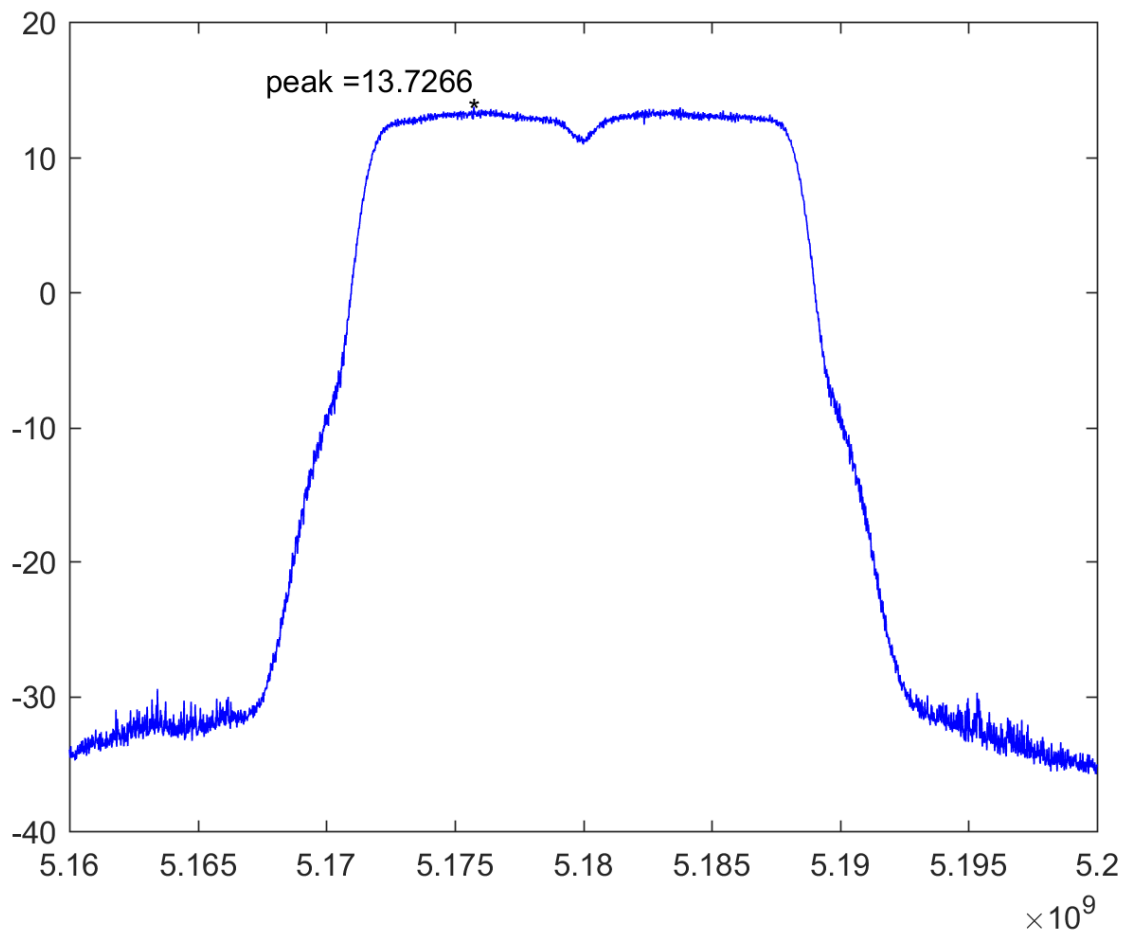
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

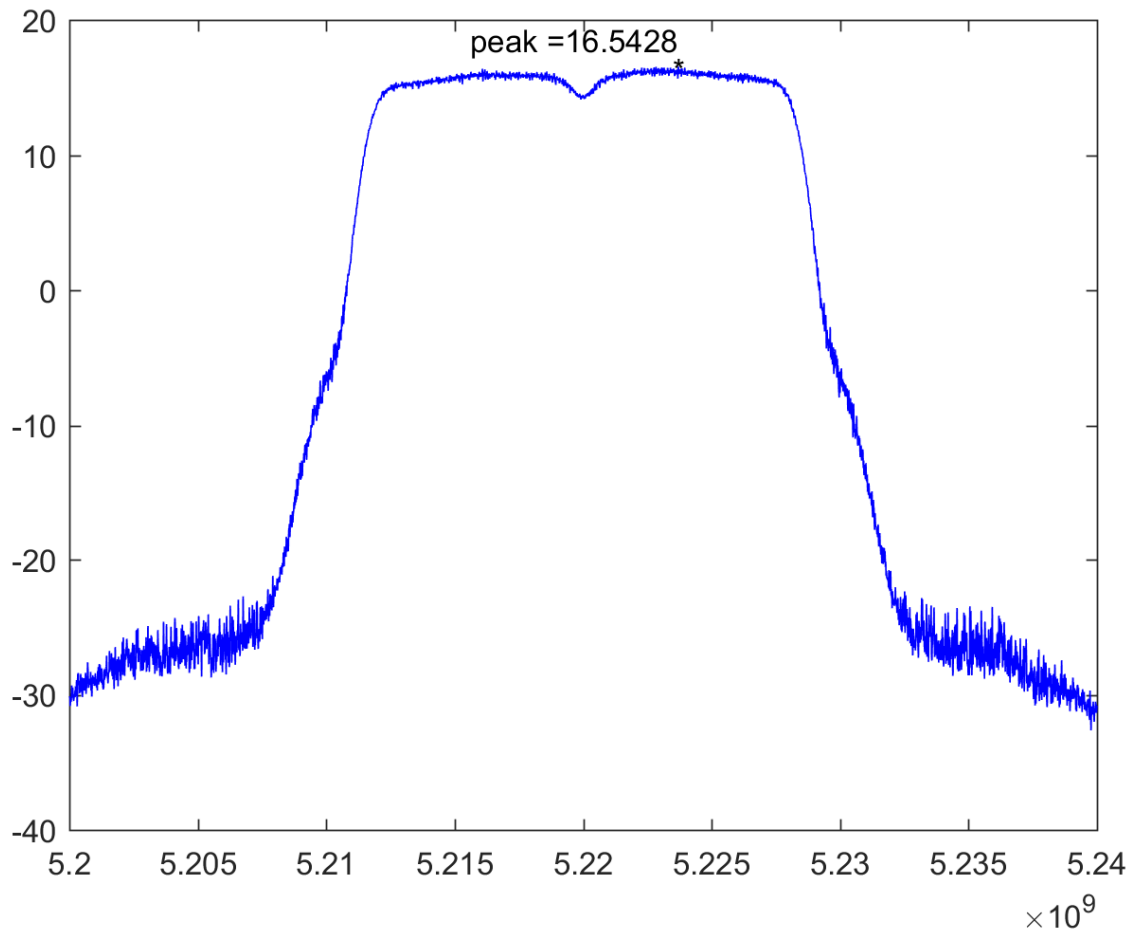
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	13.727	≤ 16.679	Pass
44	5220	16.543	≤ 16.679	Pass
48	5240	16.664	≤ 16.679	Pass

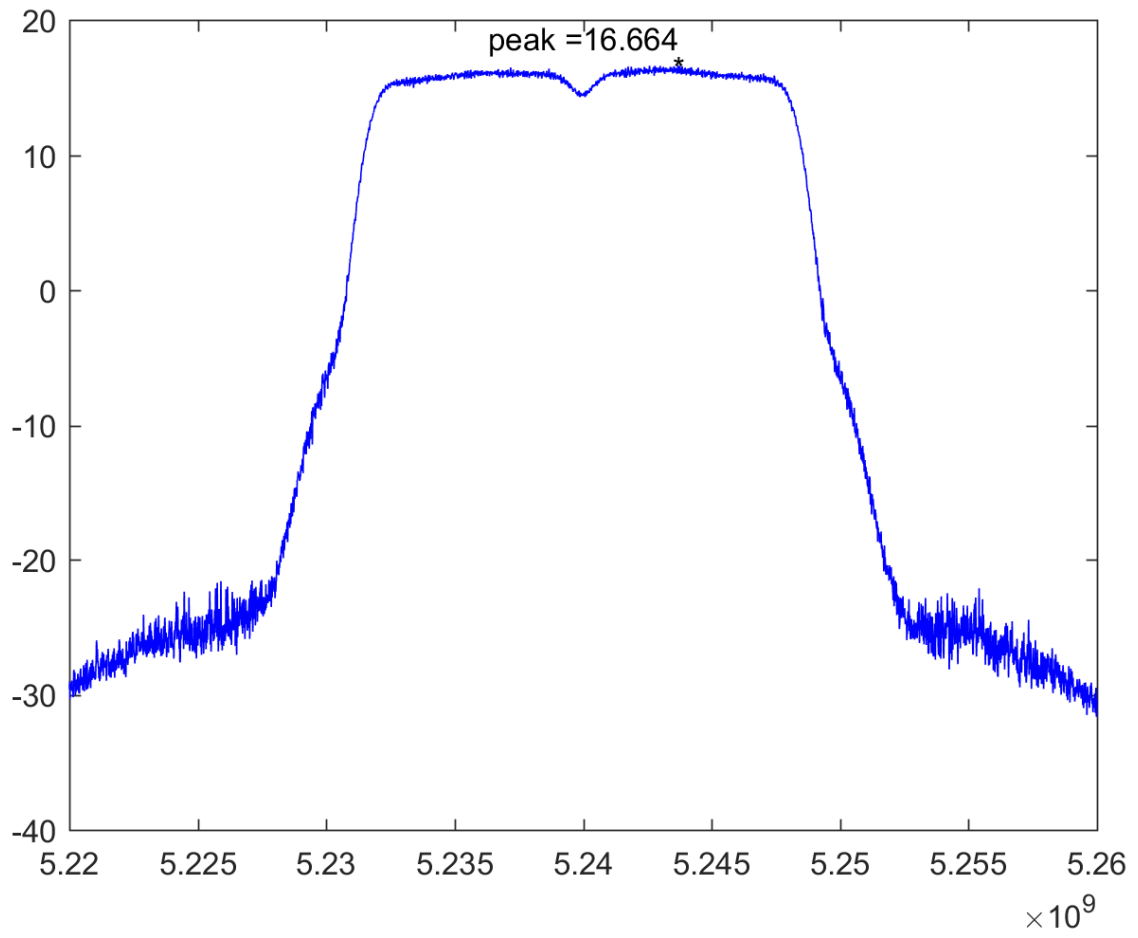
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

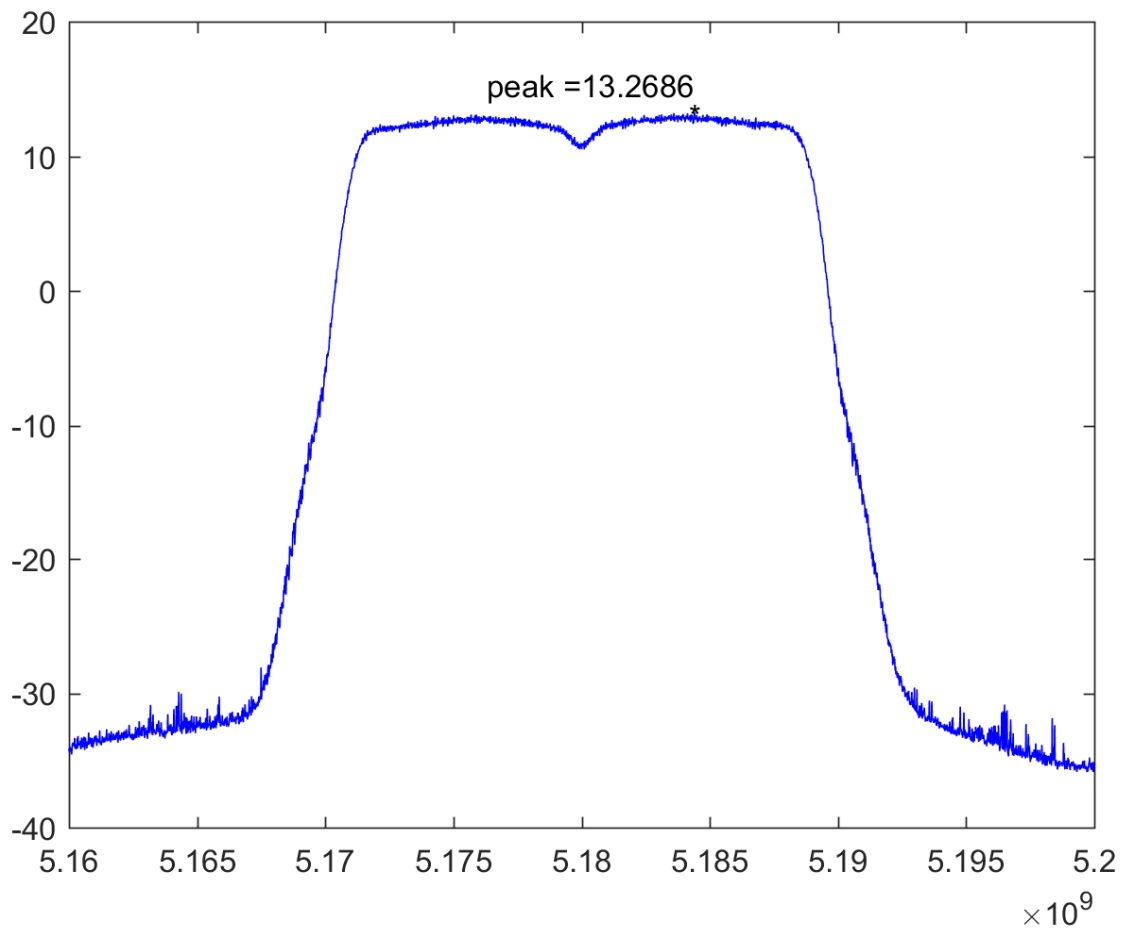


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

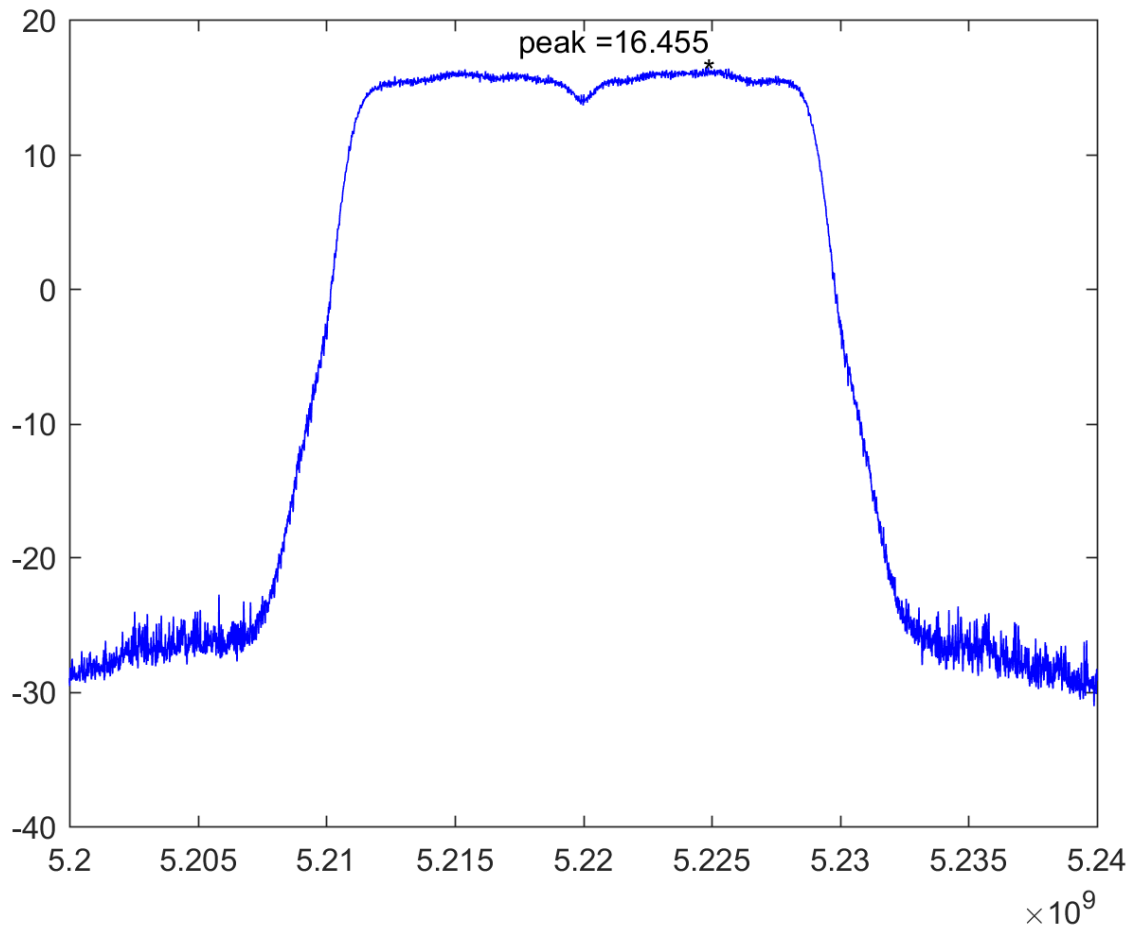
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	13.269	≤ 15.24	Pass
44	5220	16.455	≤ 15.24	Pass
48	5240	16.611	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

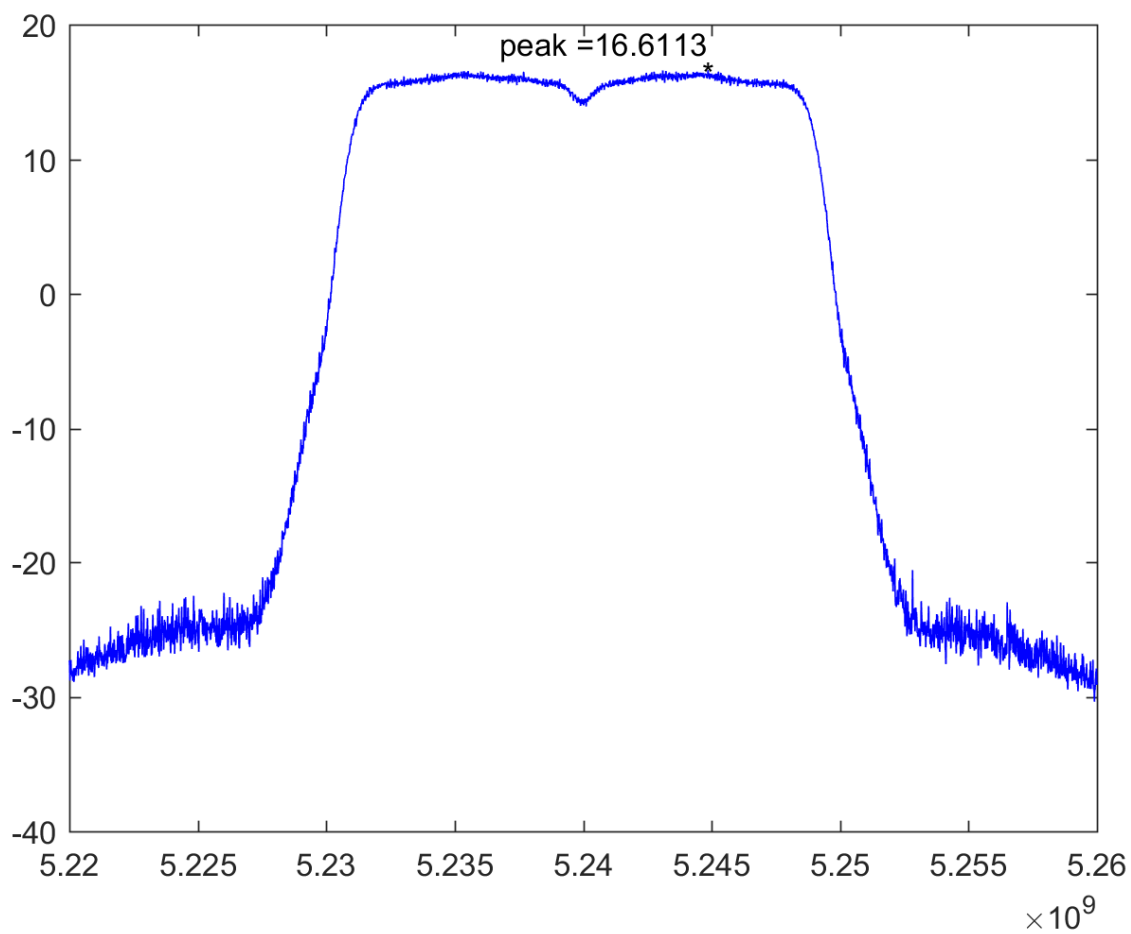
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

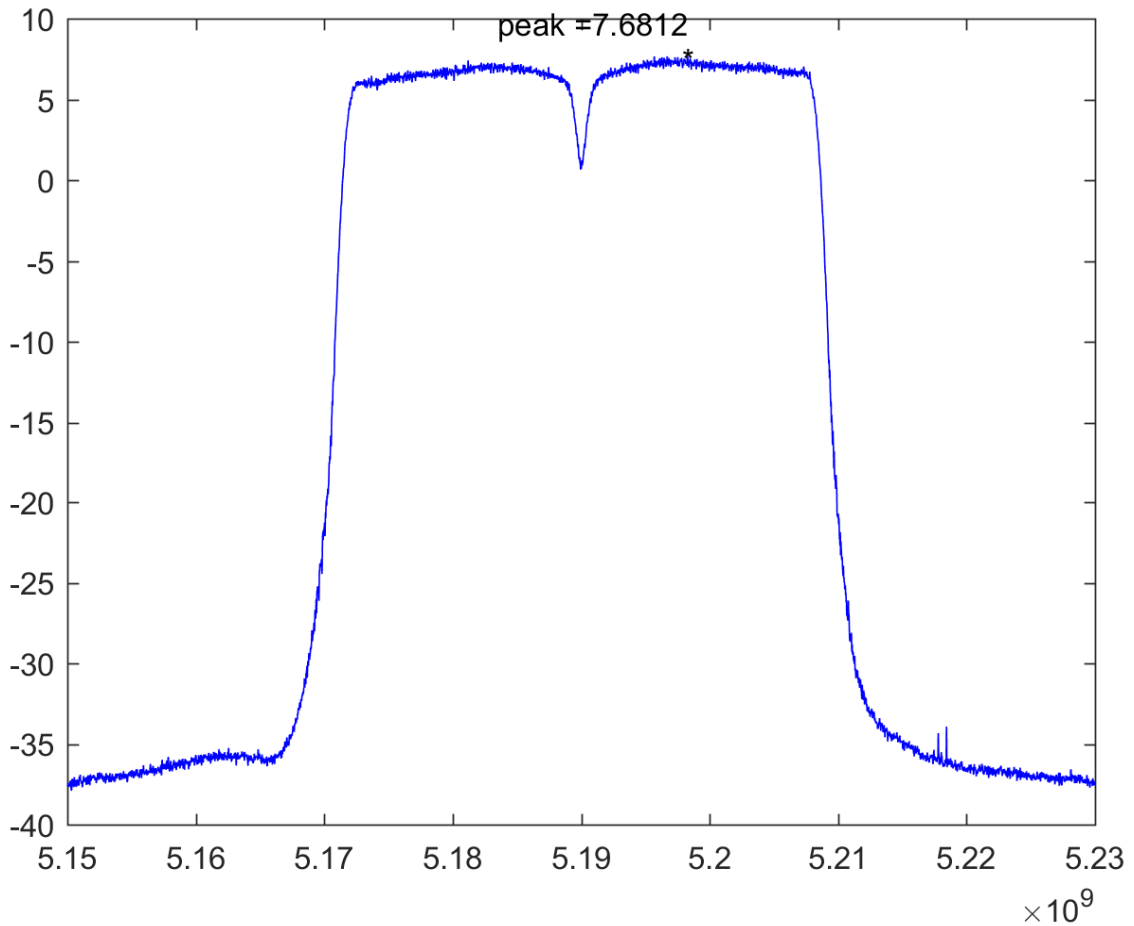


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

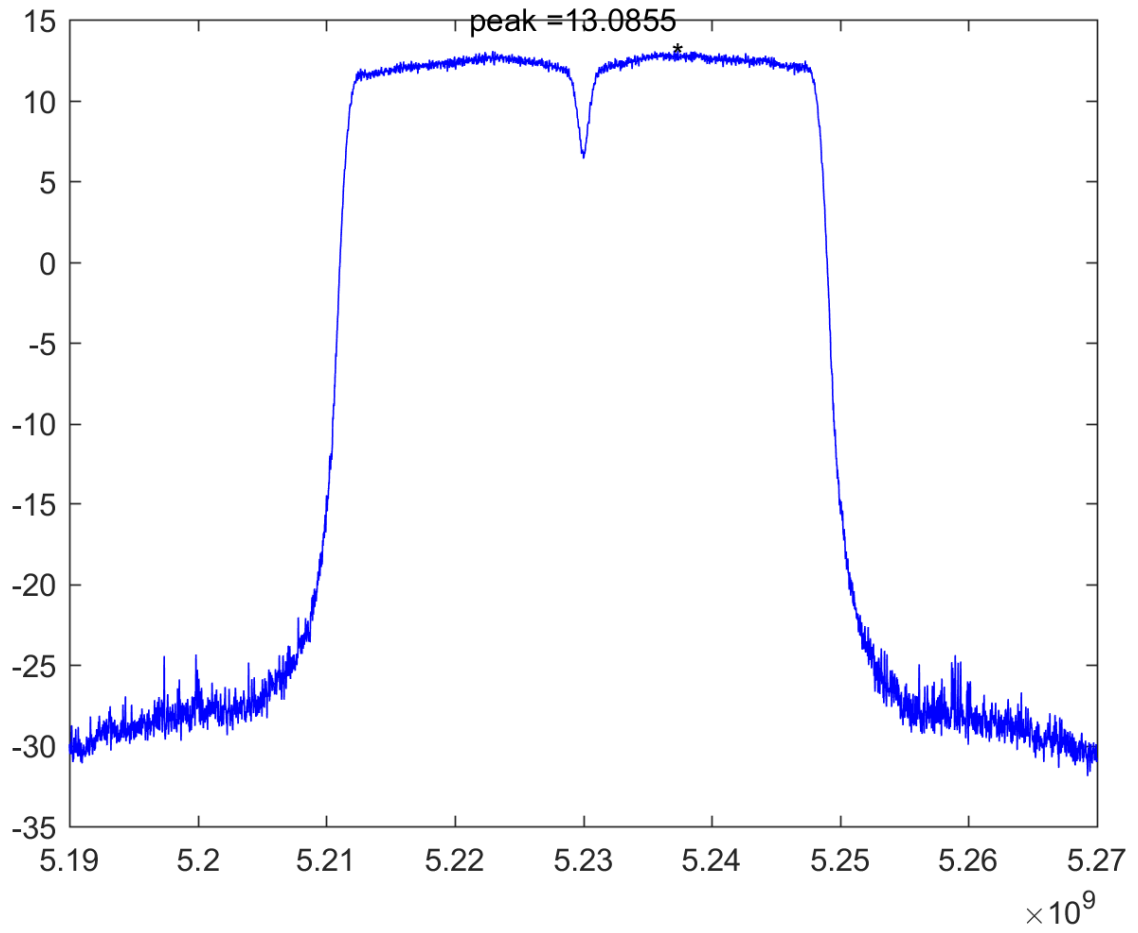
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	7.681	≤ 15.24	Pass
46	5230	13.086	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46

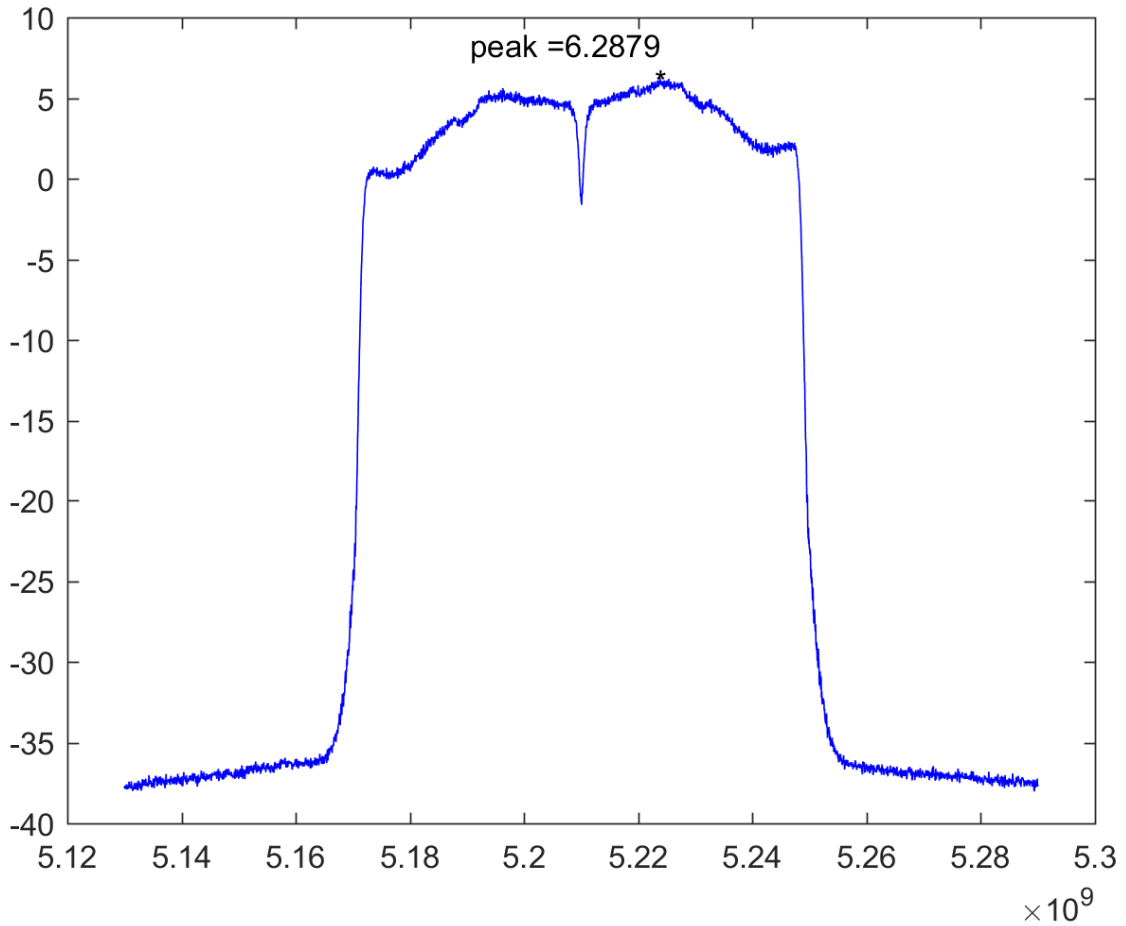


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	6.288	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 42

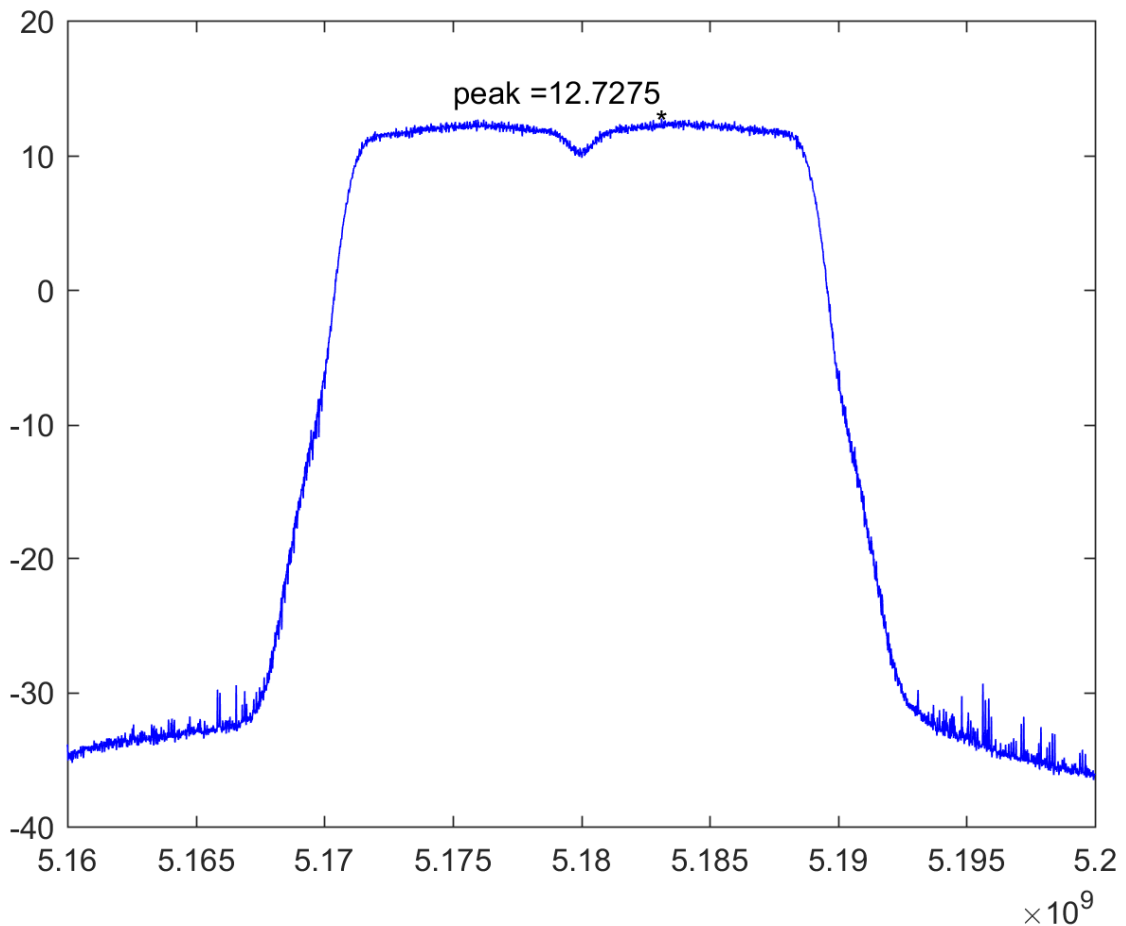


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

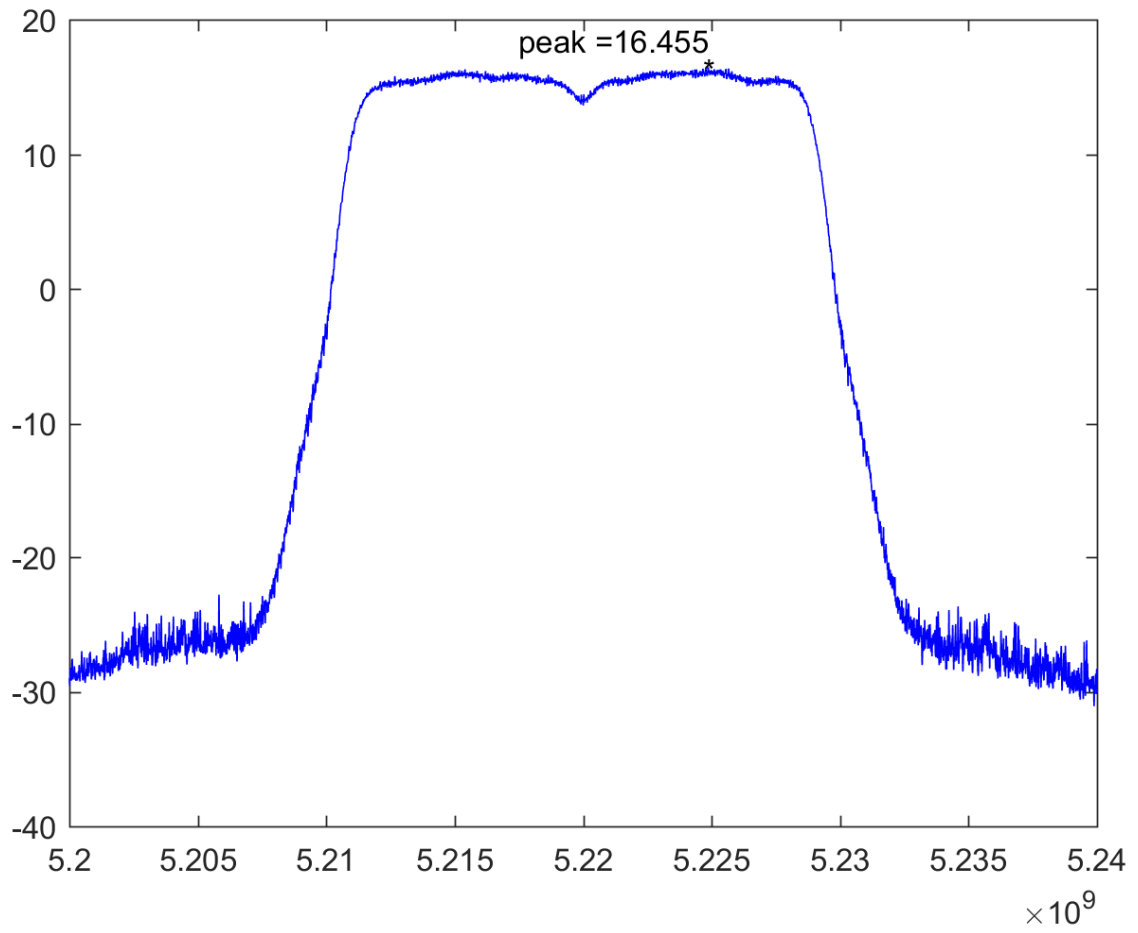
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	12.728	≤ 15.24	Pass
44	5220	16.455	≤ 15.24	Pass
48	5240	16.611	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

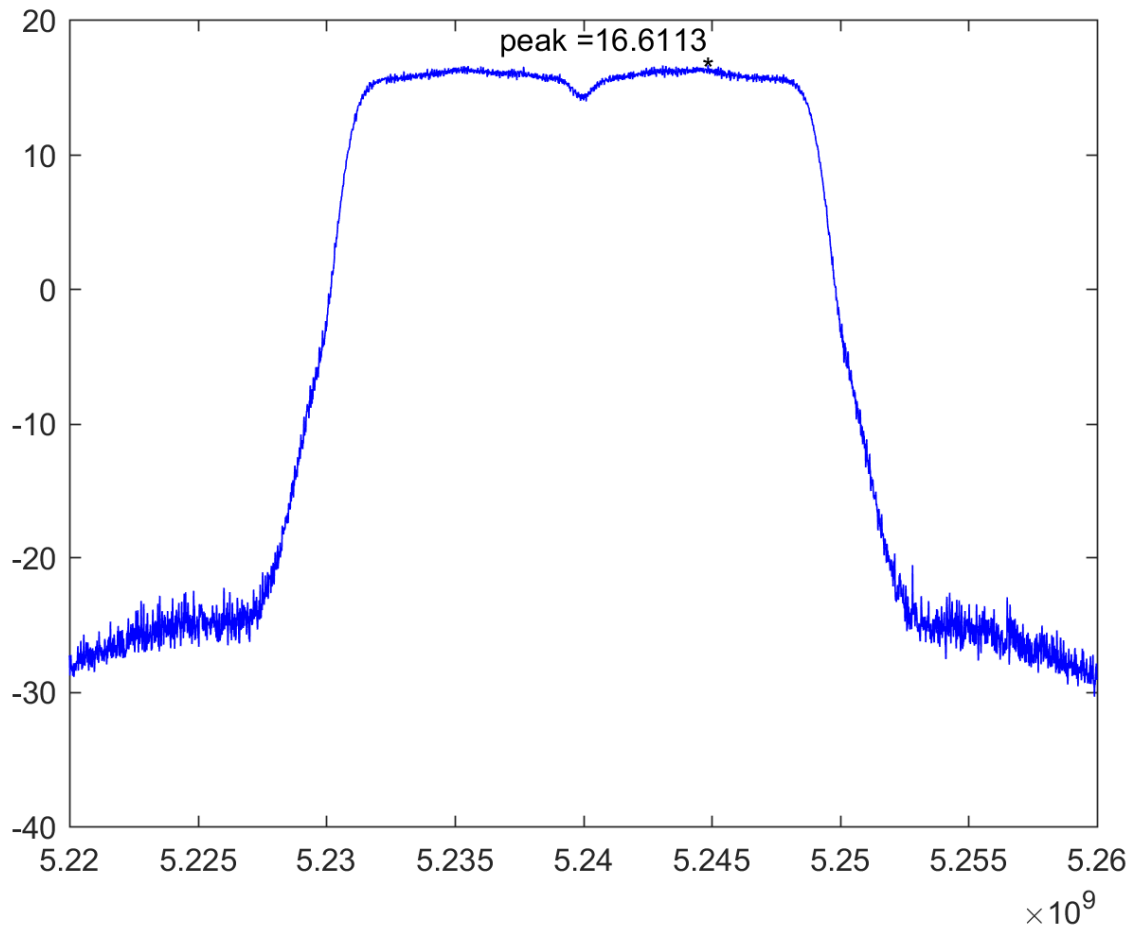
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

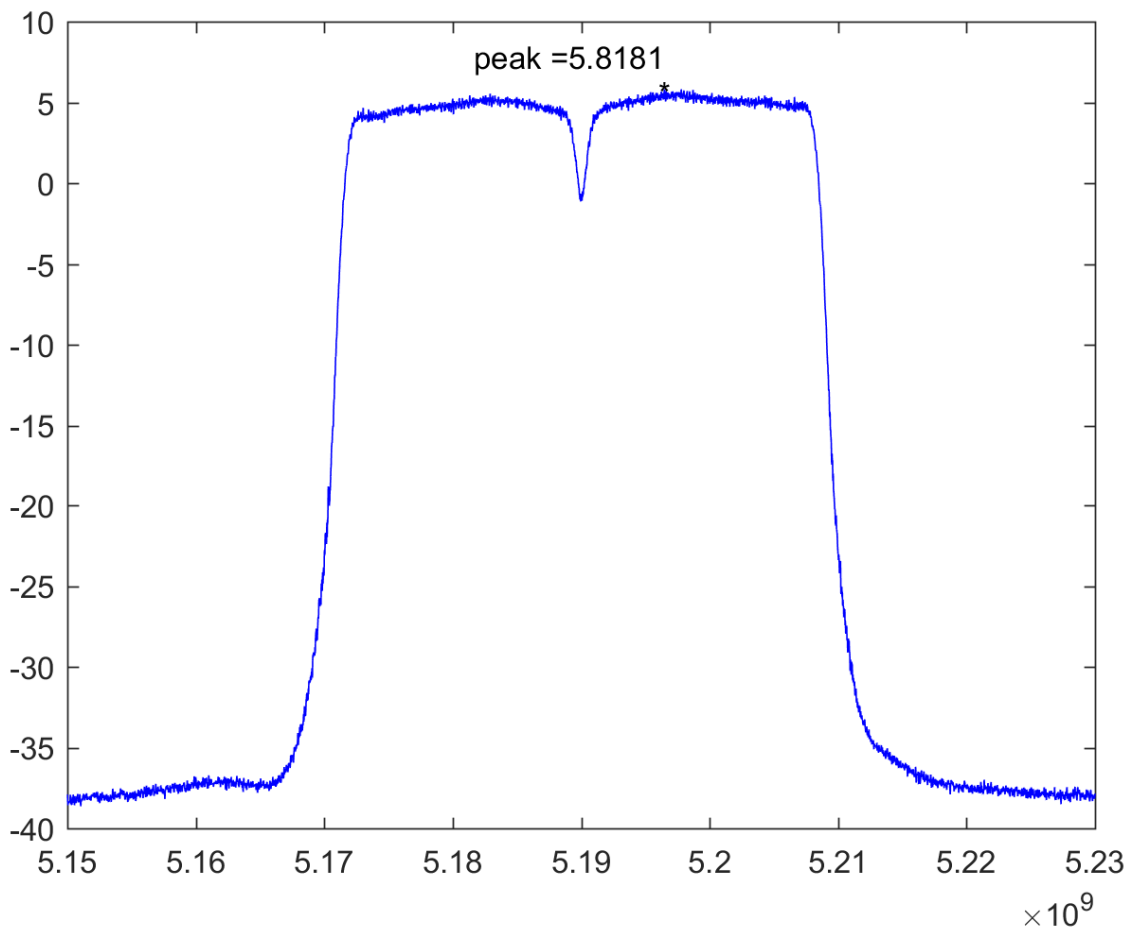


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

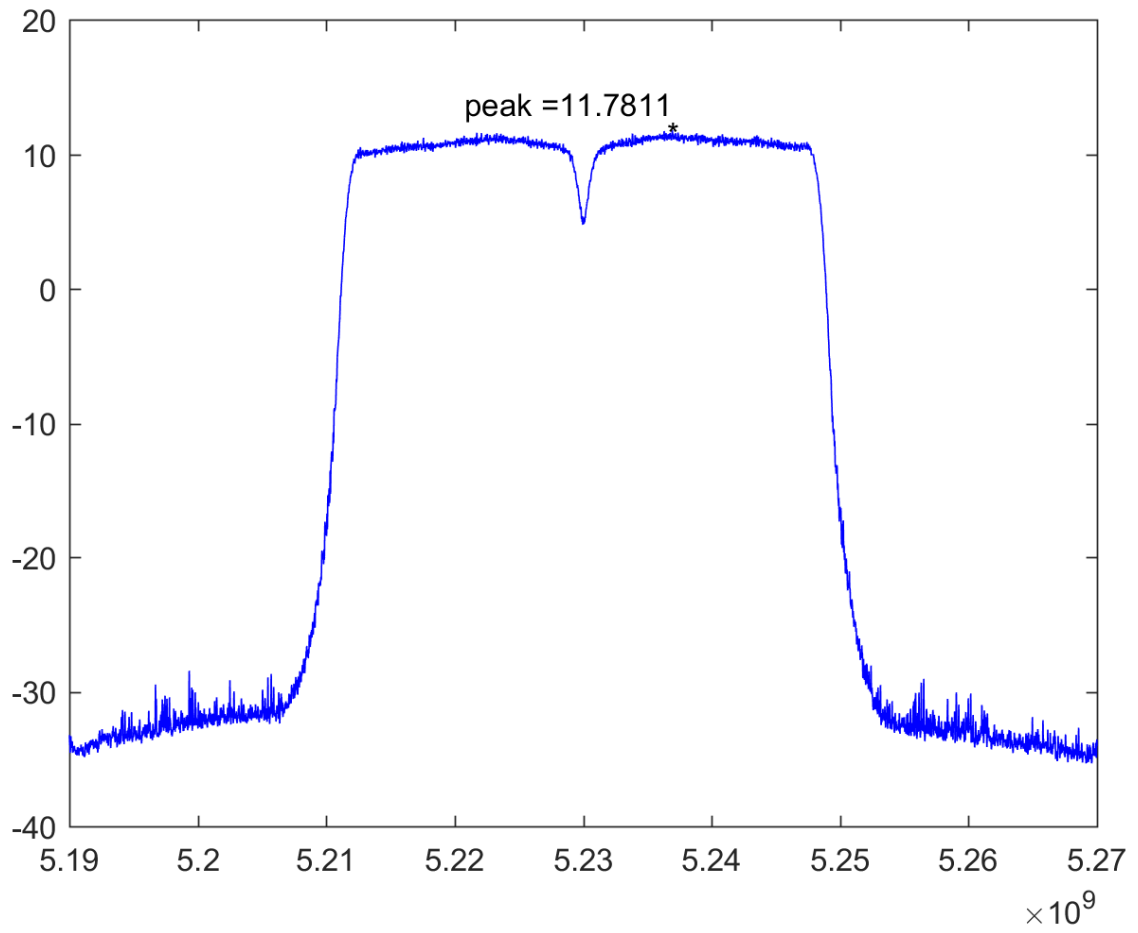
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	5.818	≤ 15.24	Pass
46	5230	11.781	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46

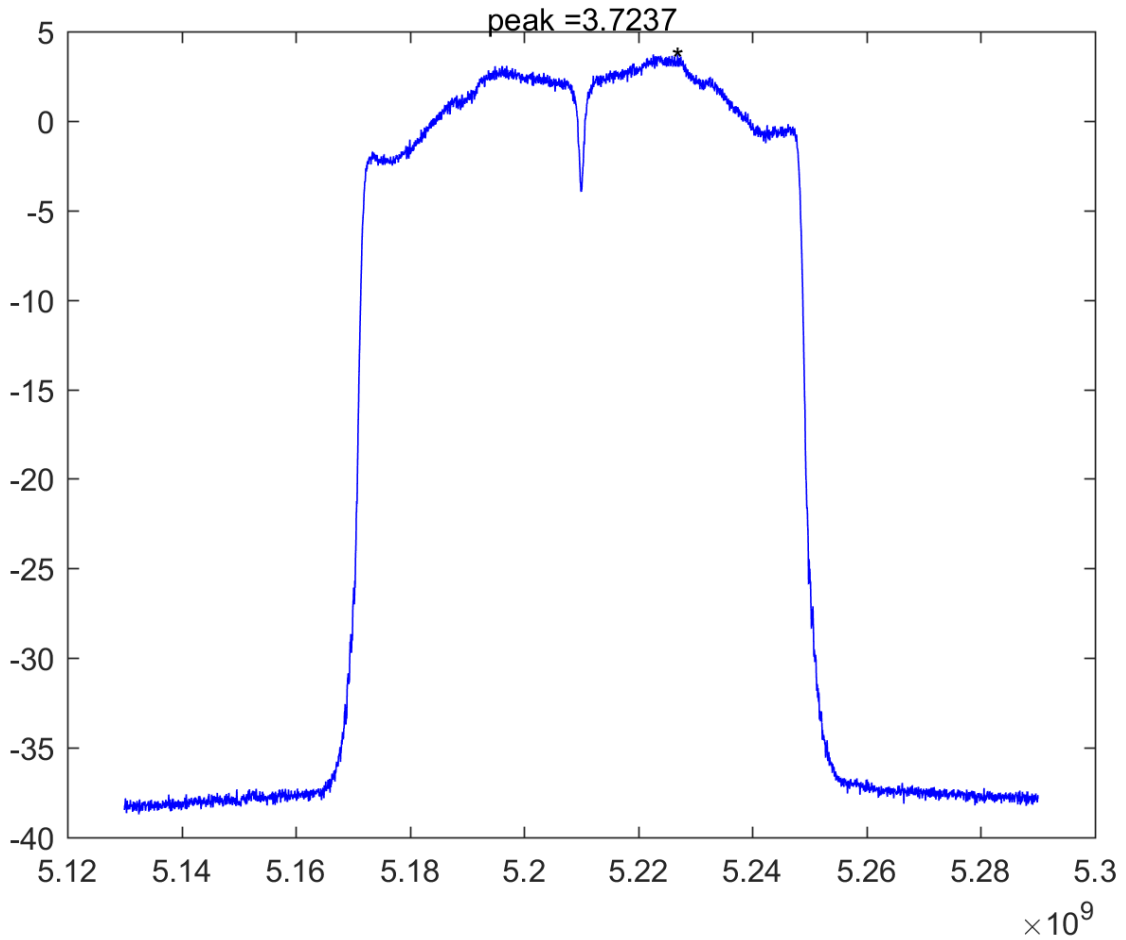


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	3.724	≤ 15.24	Pass

Array Gain: = 7.76 dBi
 Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 42

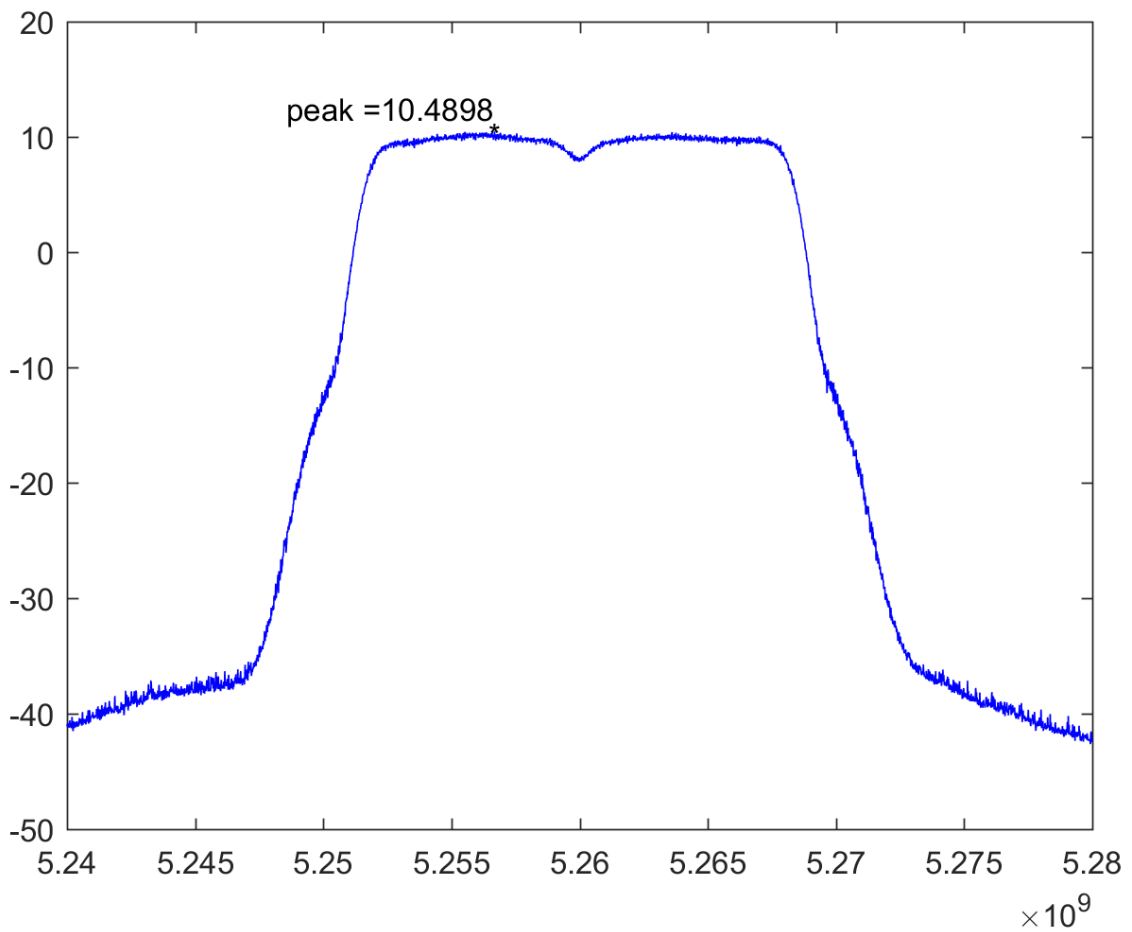


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/06/02	Test Site	SR10-H

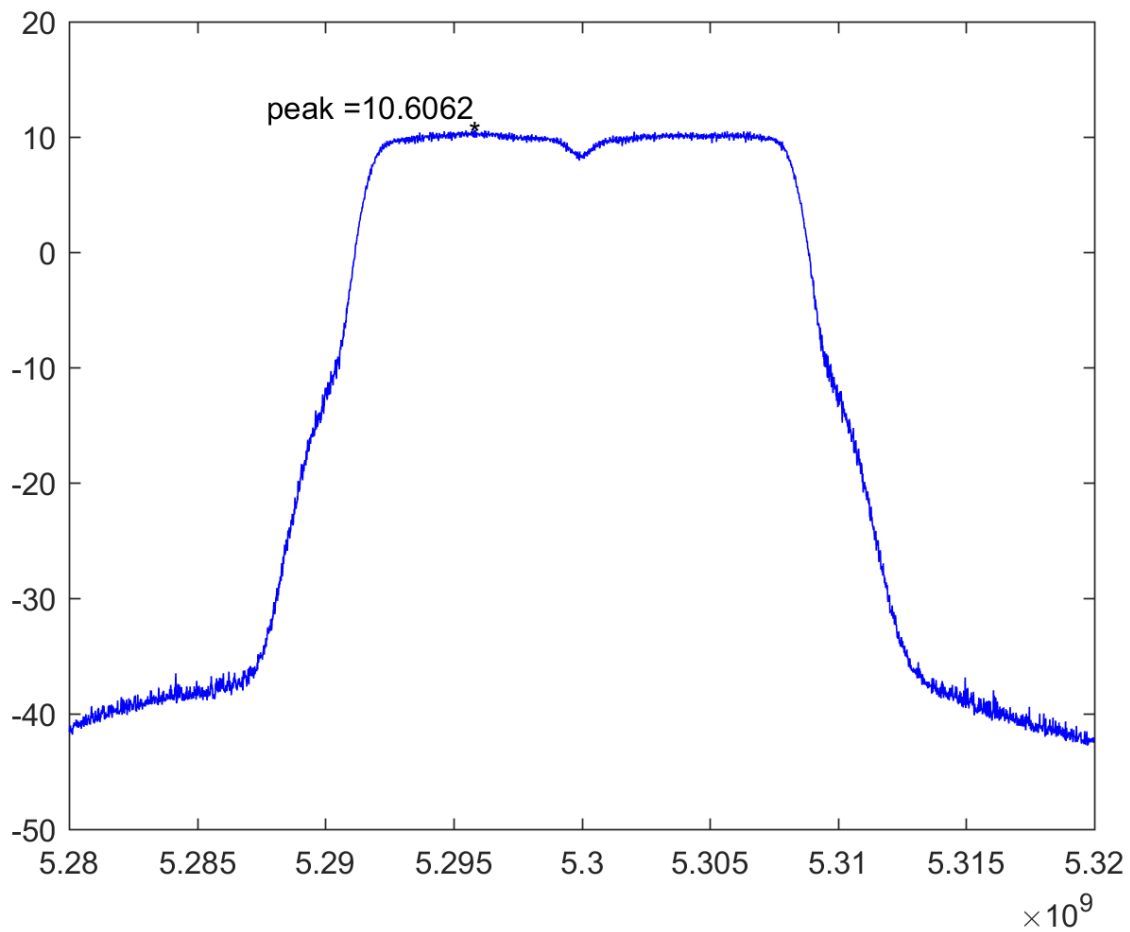
IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
52	5260	10.490	≤ 10.629	Pass
60	5300	10.606	≤ 10.629	Pass
64	5320	10.613	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

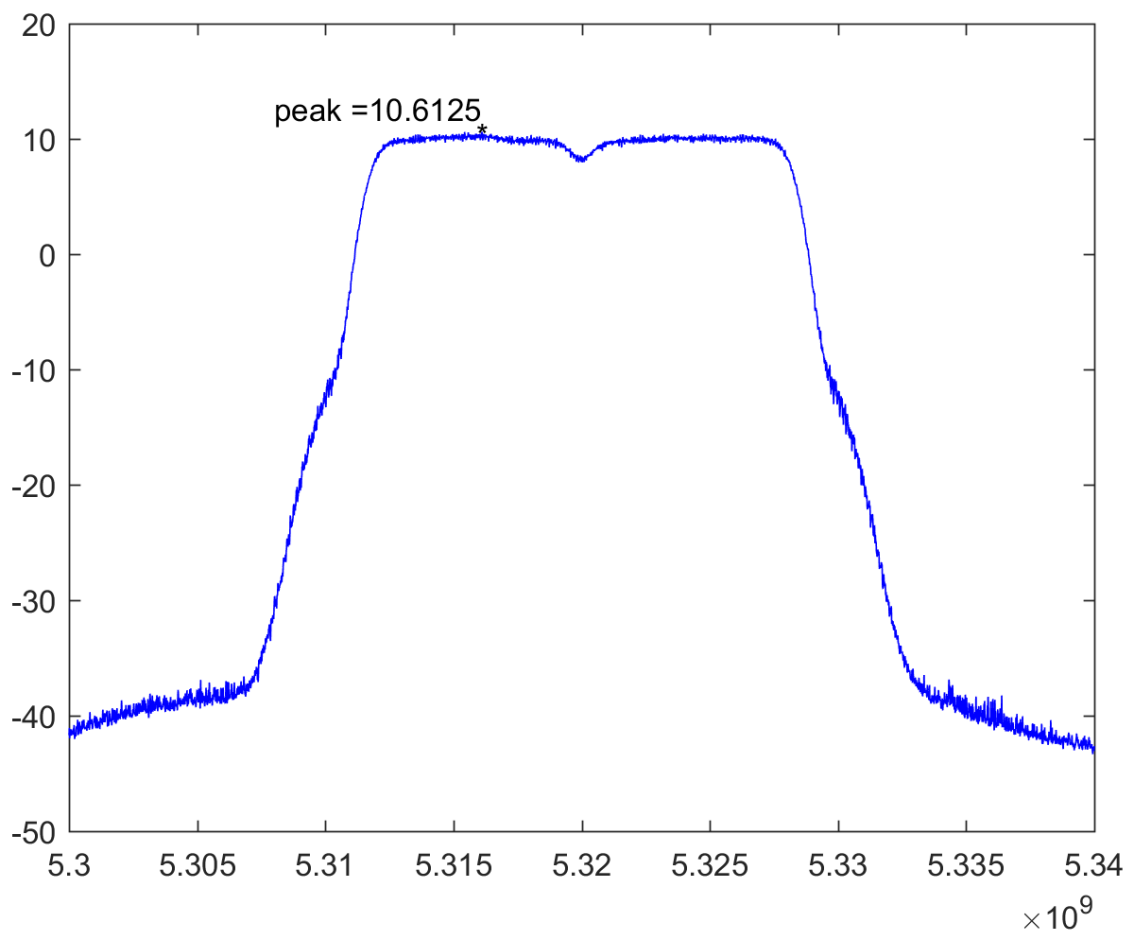
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

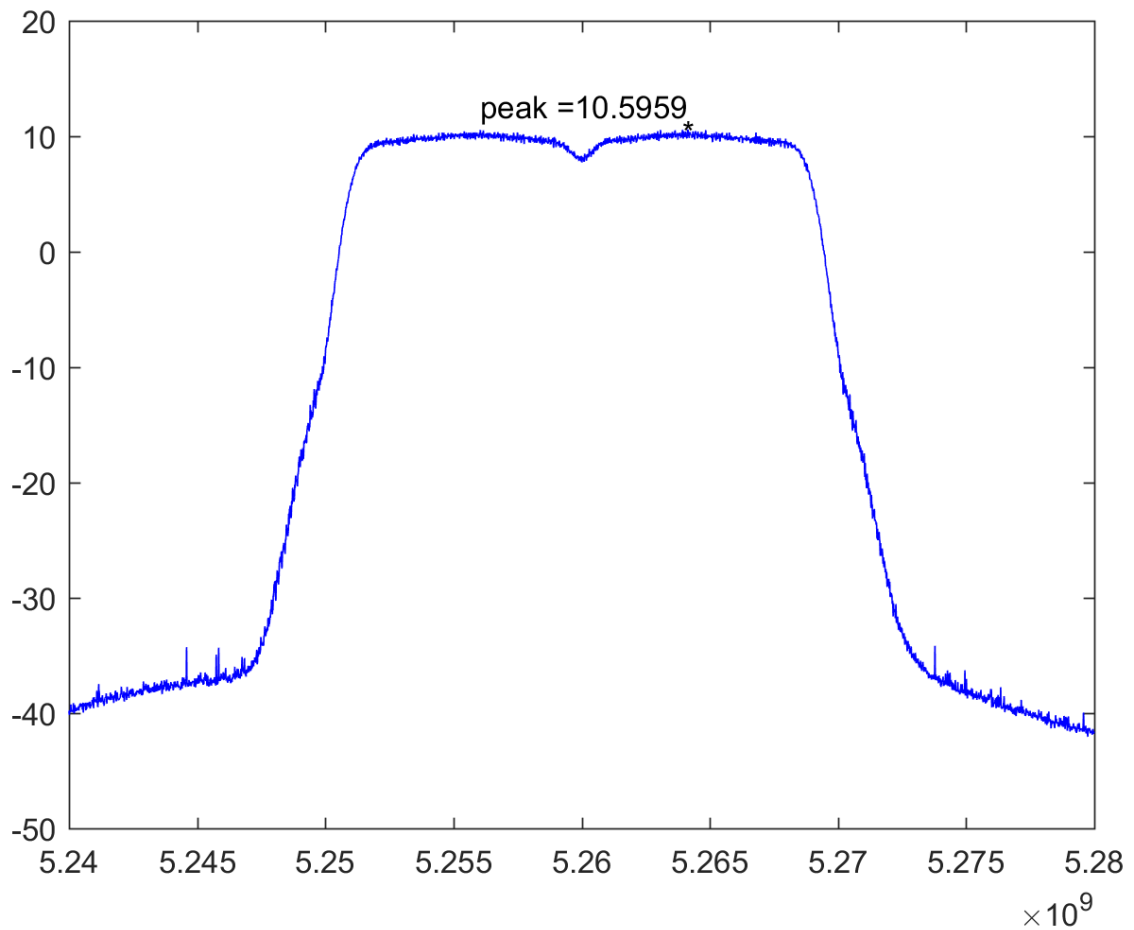


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

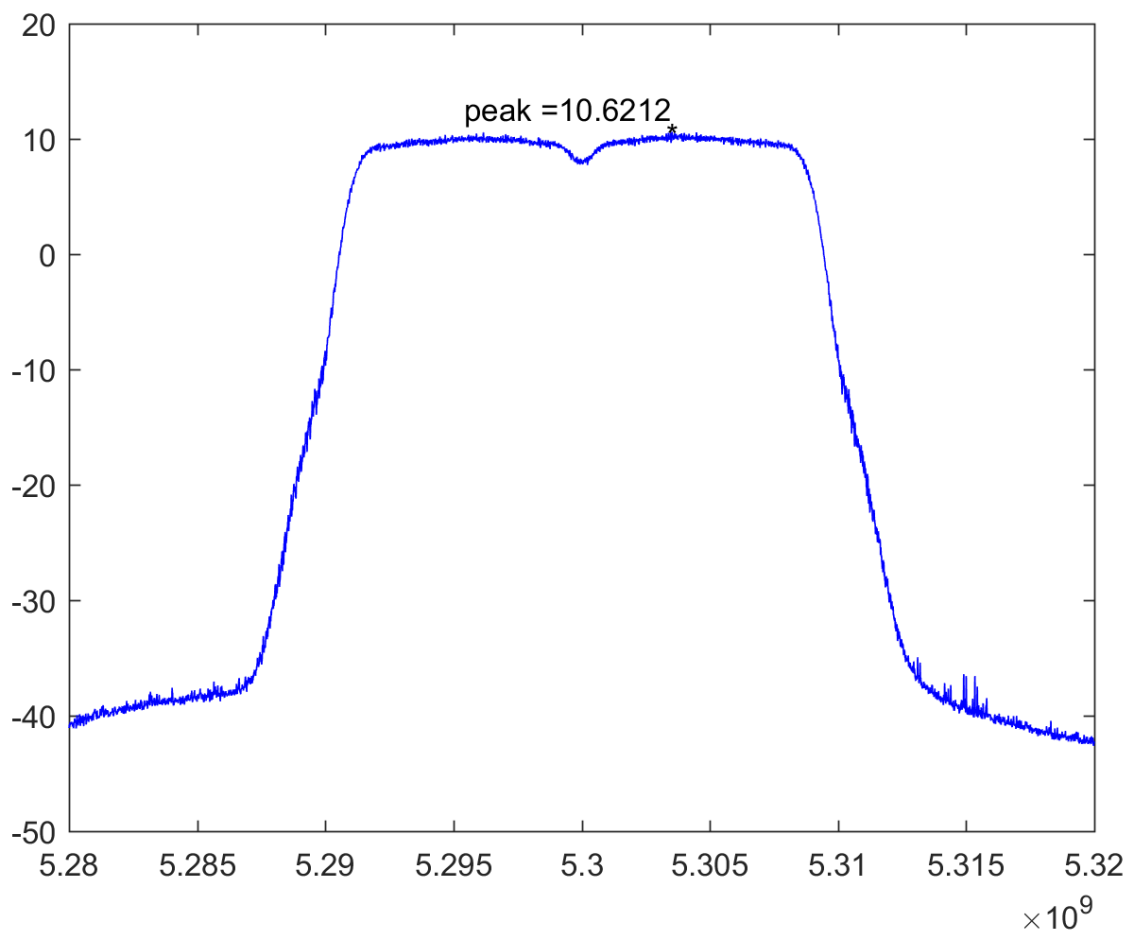
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
52	5260	10.596	≤ 10.629	Pass
60	5300	10.621	≤ 10.629	Pass
64	5320	10.607	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

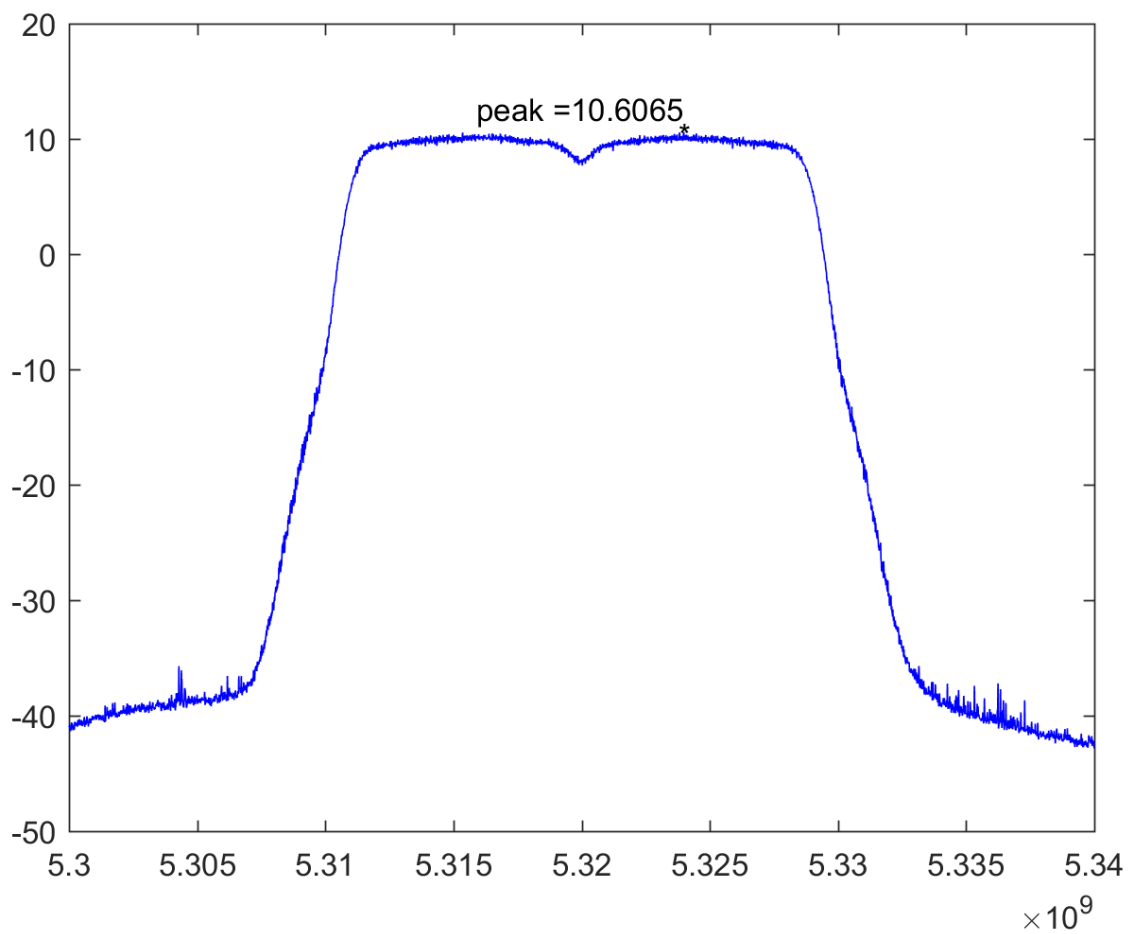
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

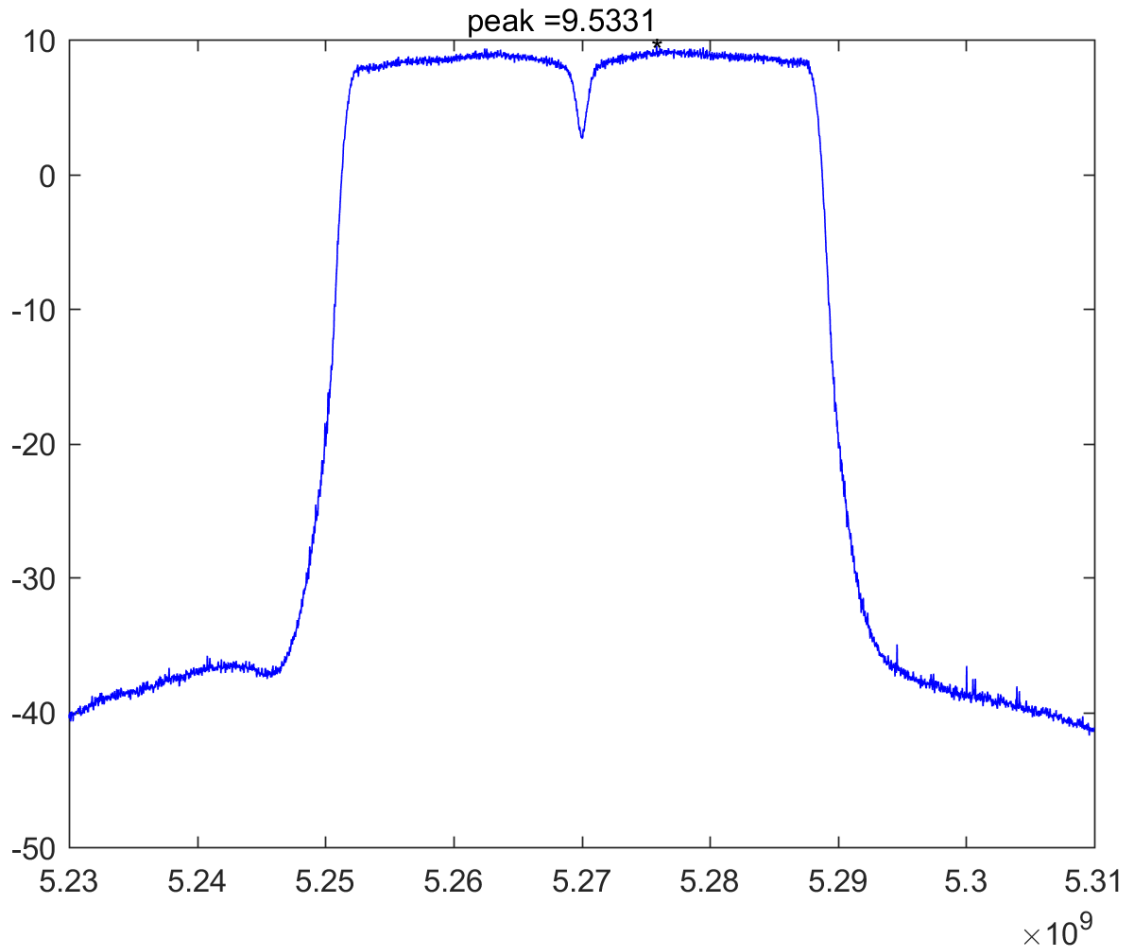


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

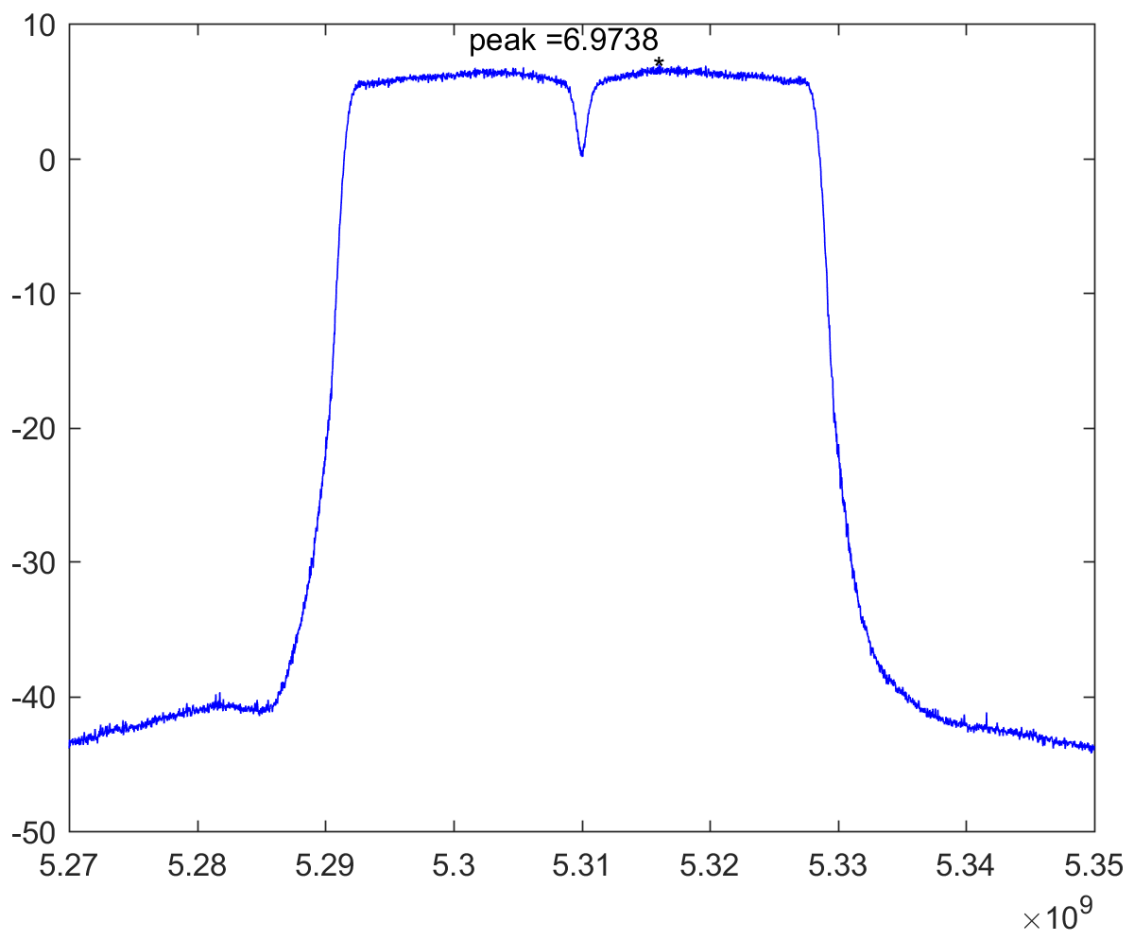
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
54	5270	9.533	≤ 10.629	Pass
63	5310	6.974	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

Channel 54 (5270MHz)



Channel 62 (5310MHz)

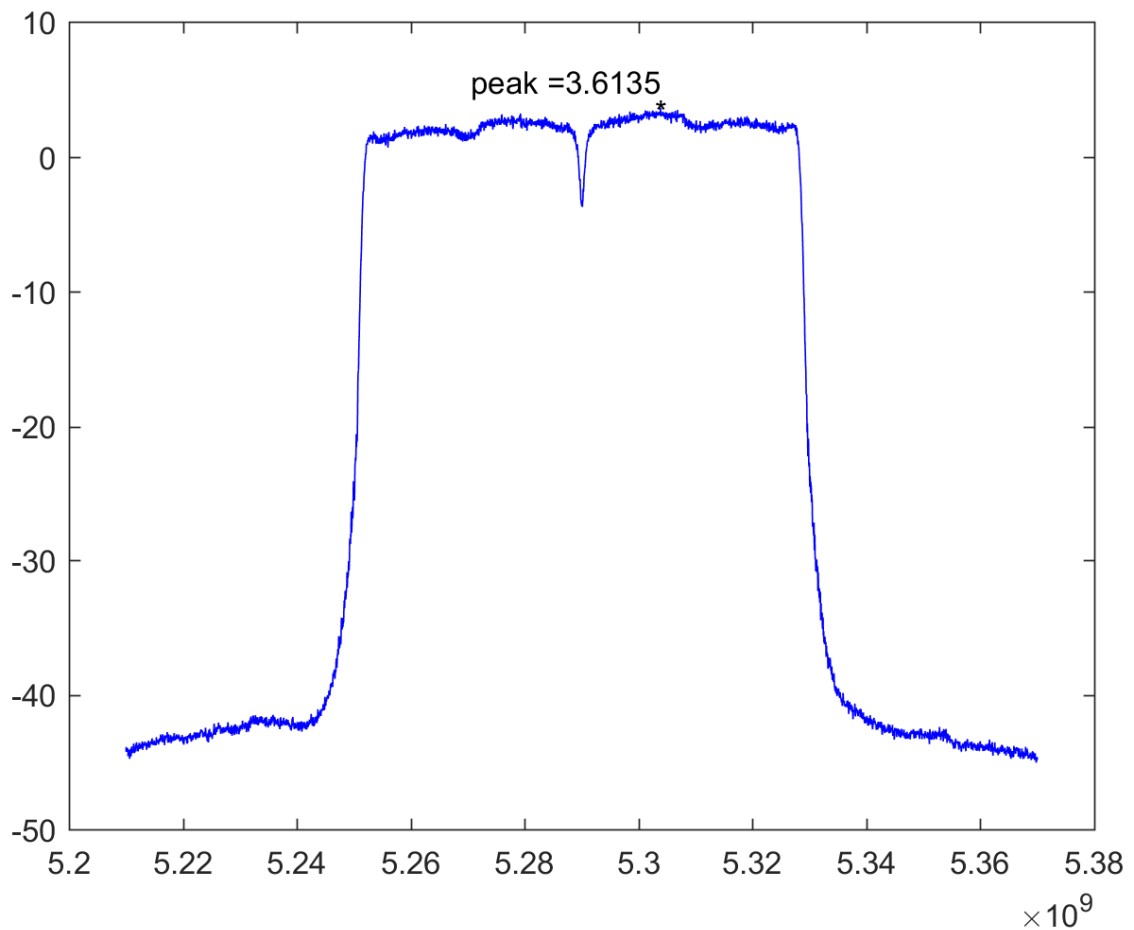


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
58	5290	3.614	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

Channel 58 (5290MHz)

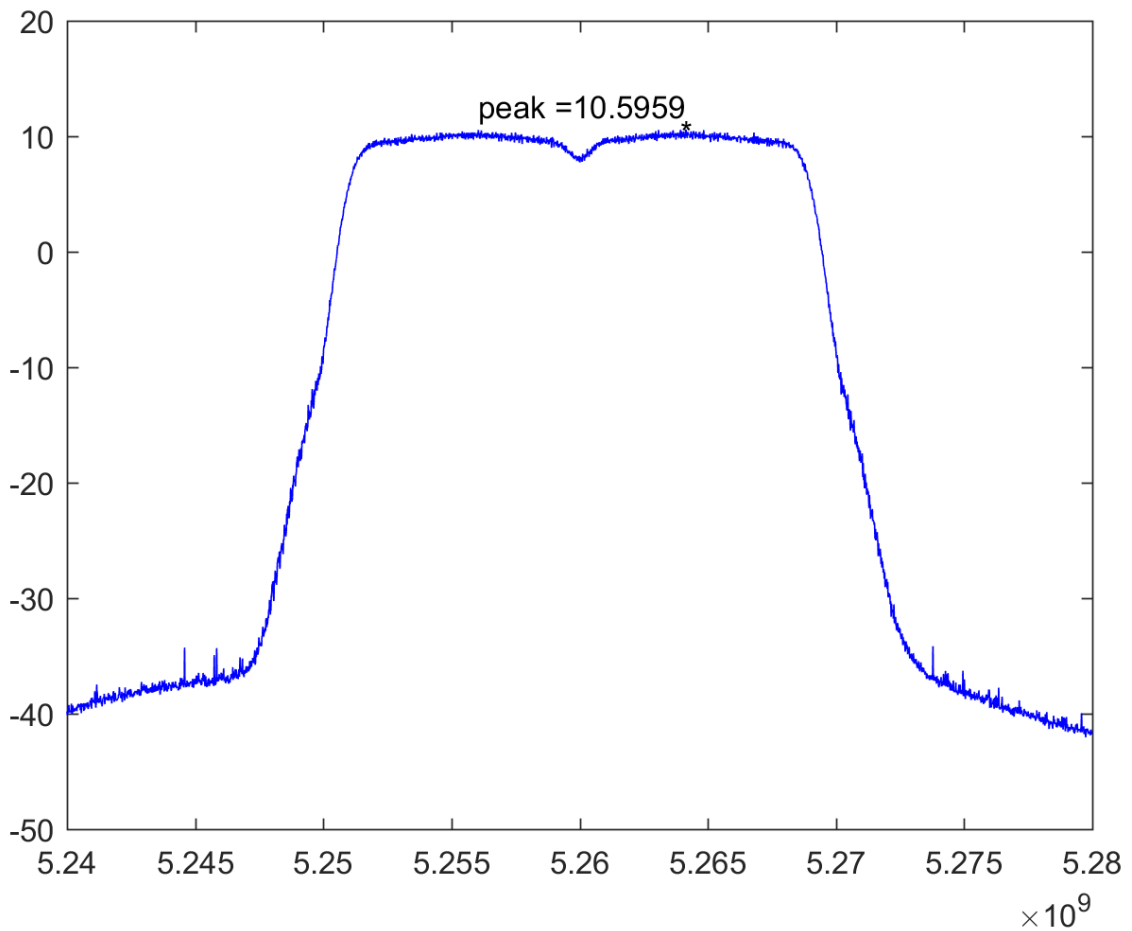


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

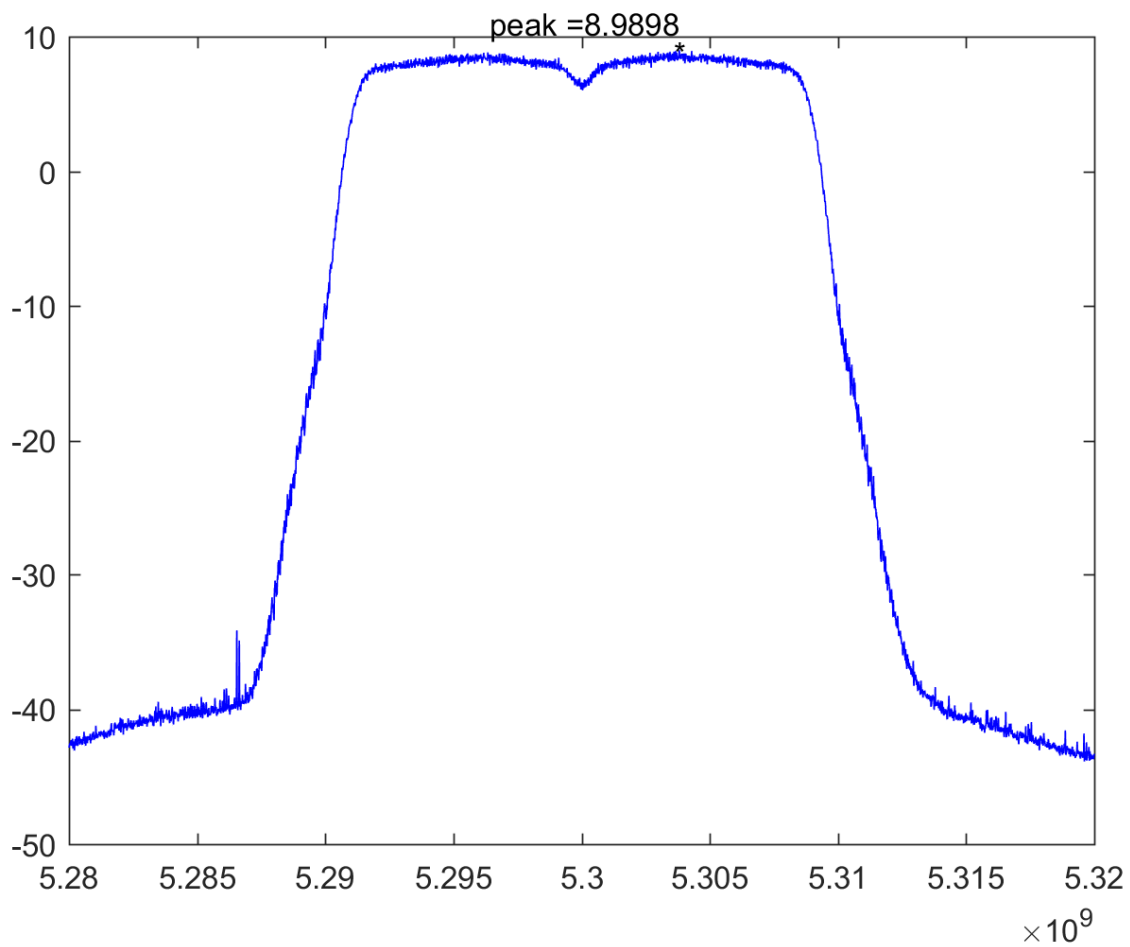
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
52	5260	10.596	≤ 10.629	Pass
60	5300	8.990	≤ 10.629	Pass
64	5320	9.186	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

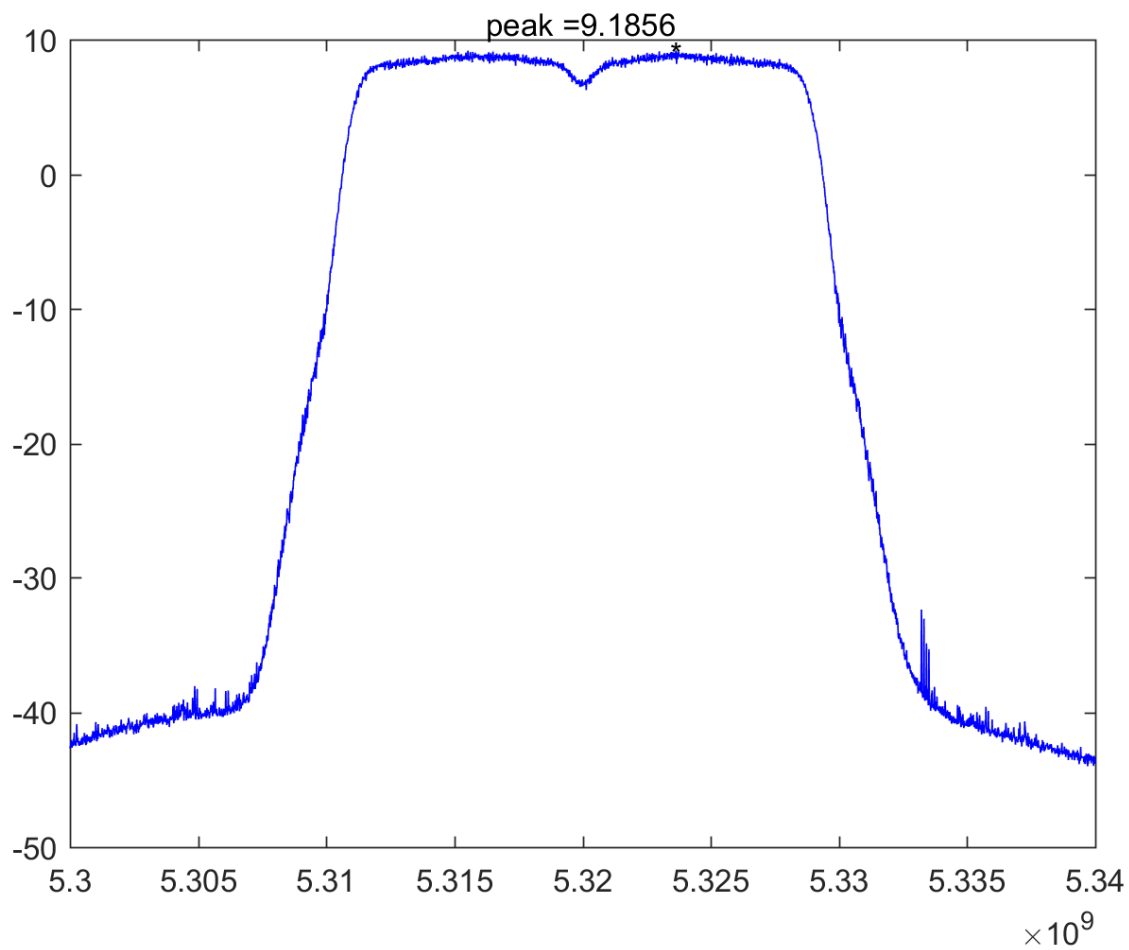
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

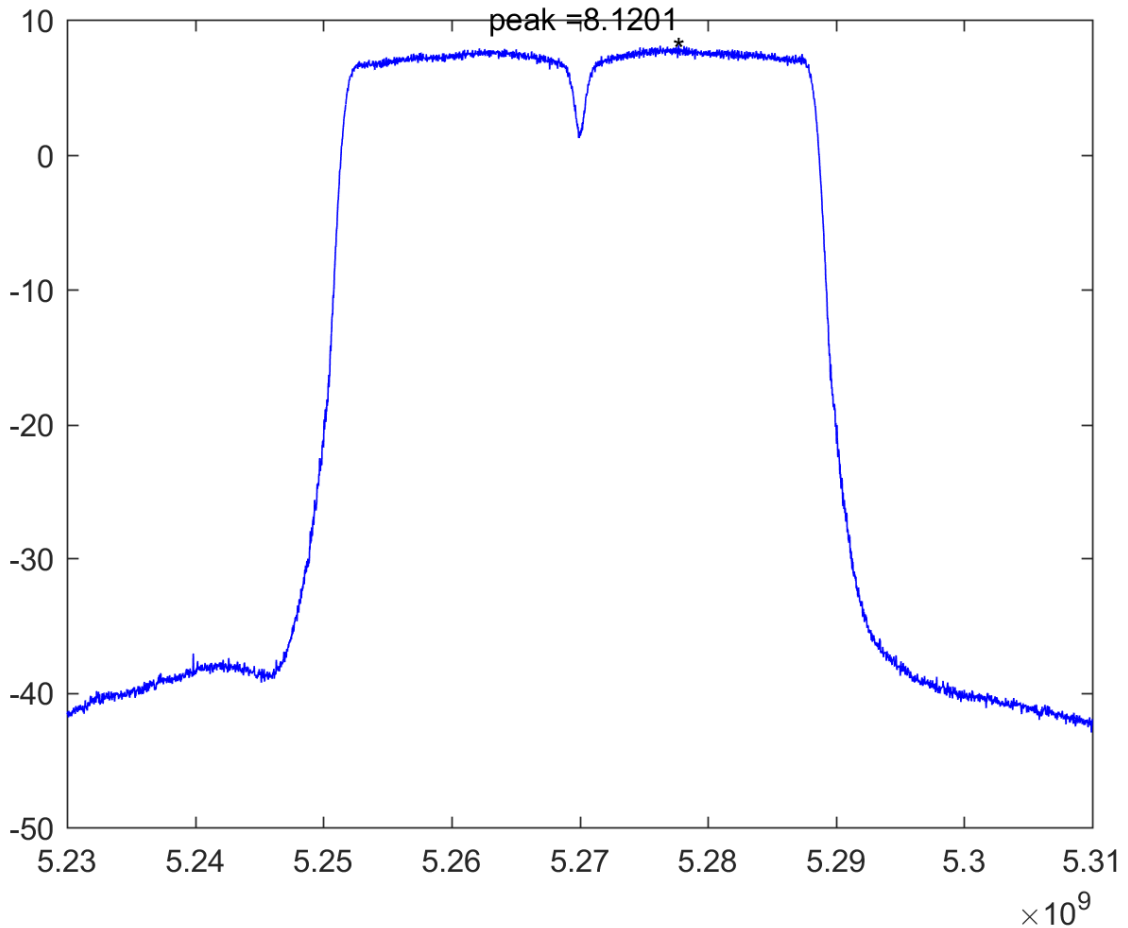


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

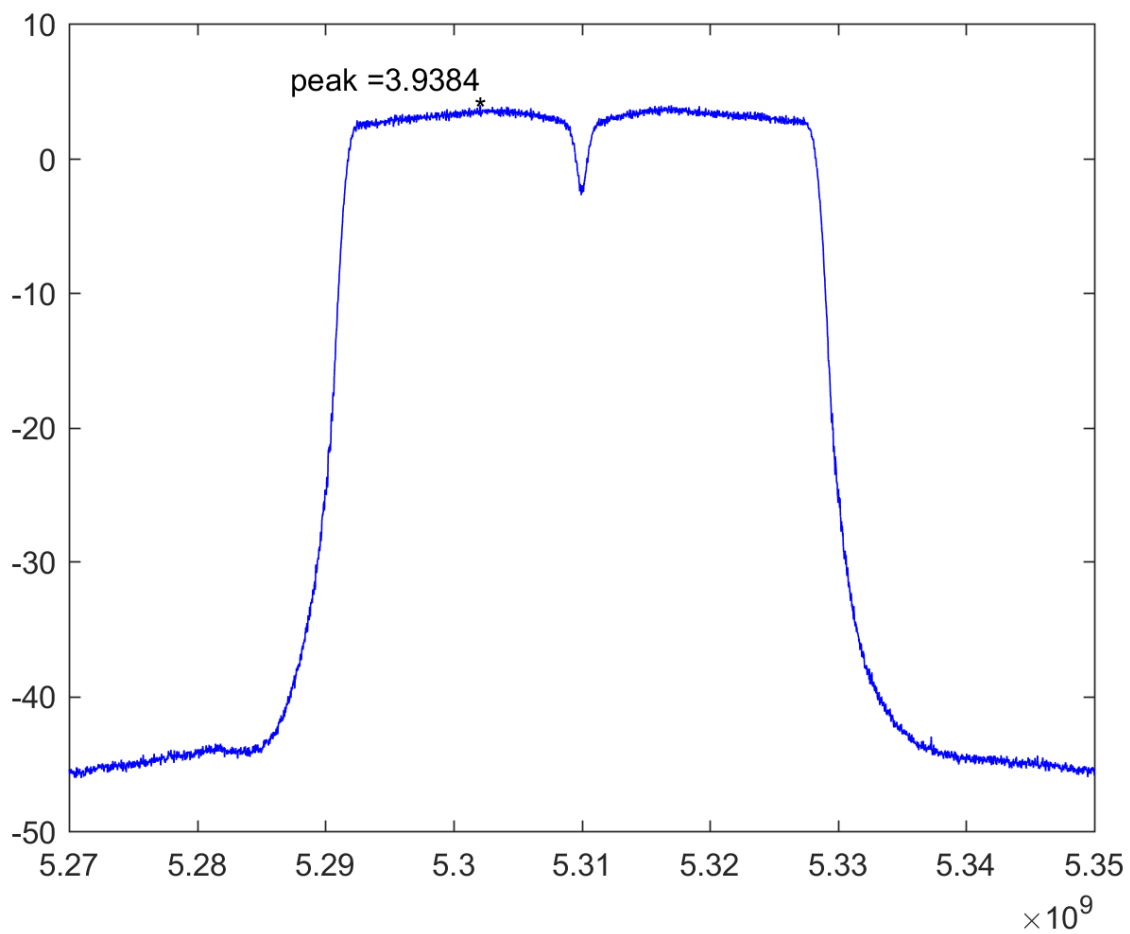
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
54	5270	8.120	≤ 10.629	Pass
63	5310	3.938	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

Channel 54 (5270MHz)



Channel 62 (5310MHz)

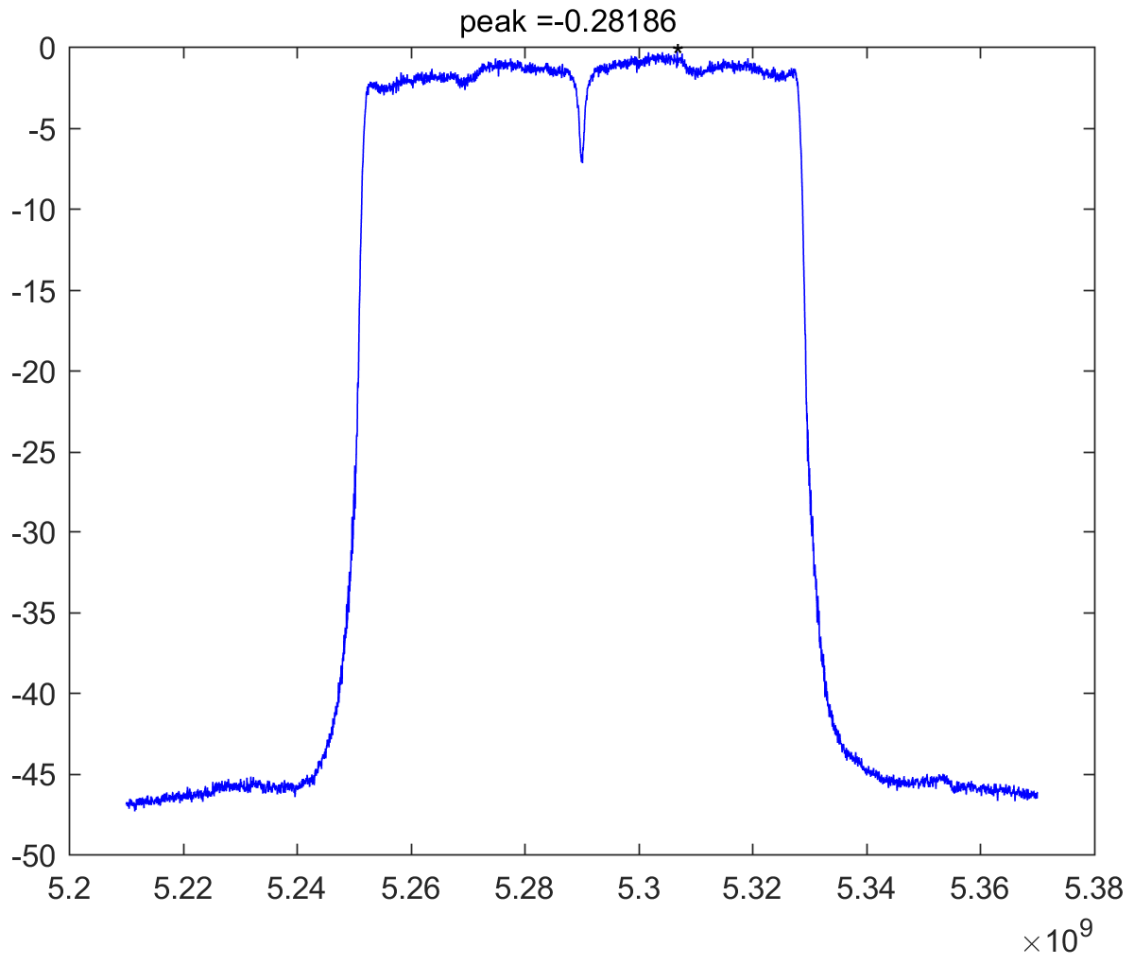


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
58	5290	-0.282	≤ 10.629	Pass

Array Gain: = 6.371 dBi
 Limit=11-(6.371dBi-6dBi)=10.629dBi

Channel 58 (5290MHz)

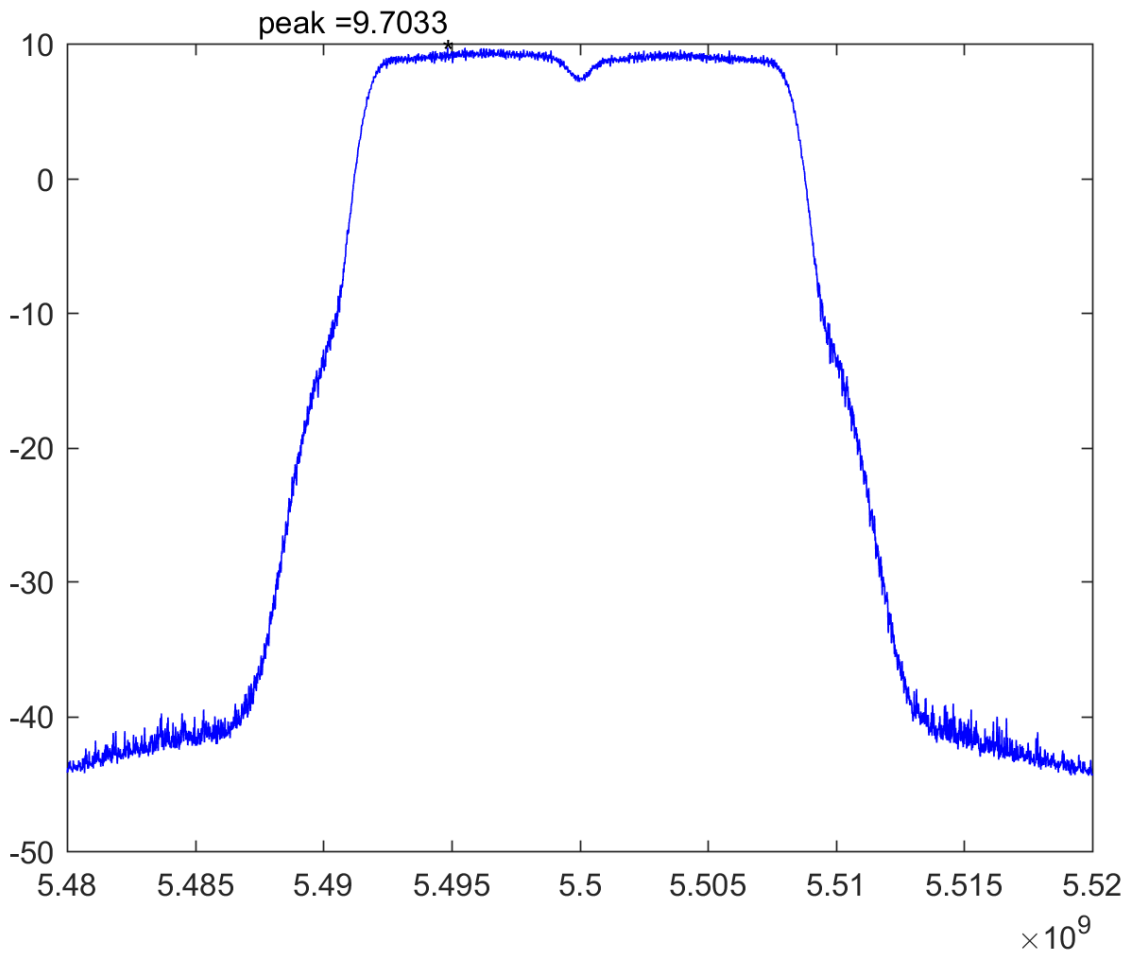


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/06/02	Test Site	SR10-H

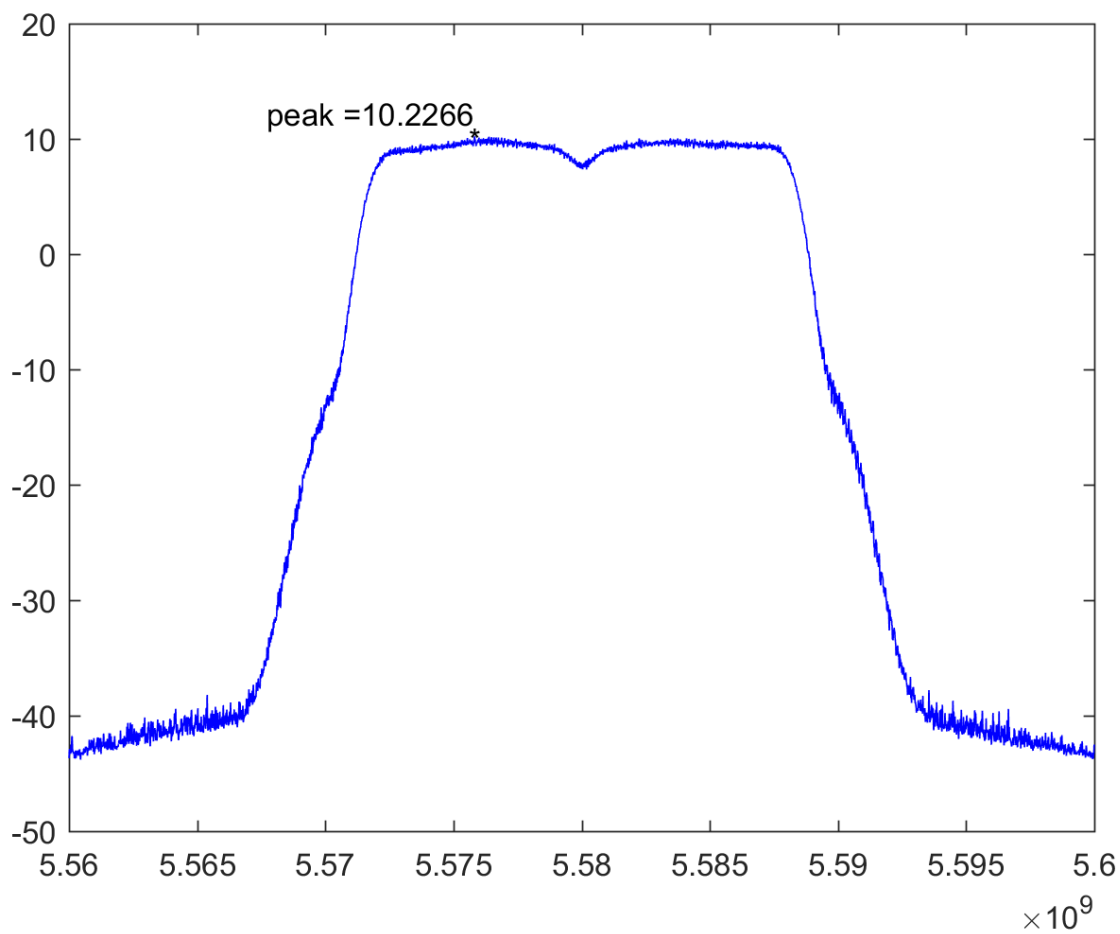
IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
100	5500	9.703	≤ 10.449	Pass
116	5580	10.227	≤ 10.449	Pass
140	5700	10.132	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

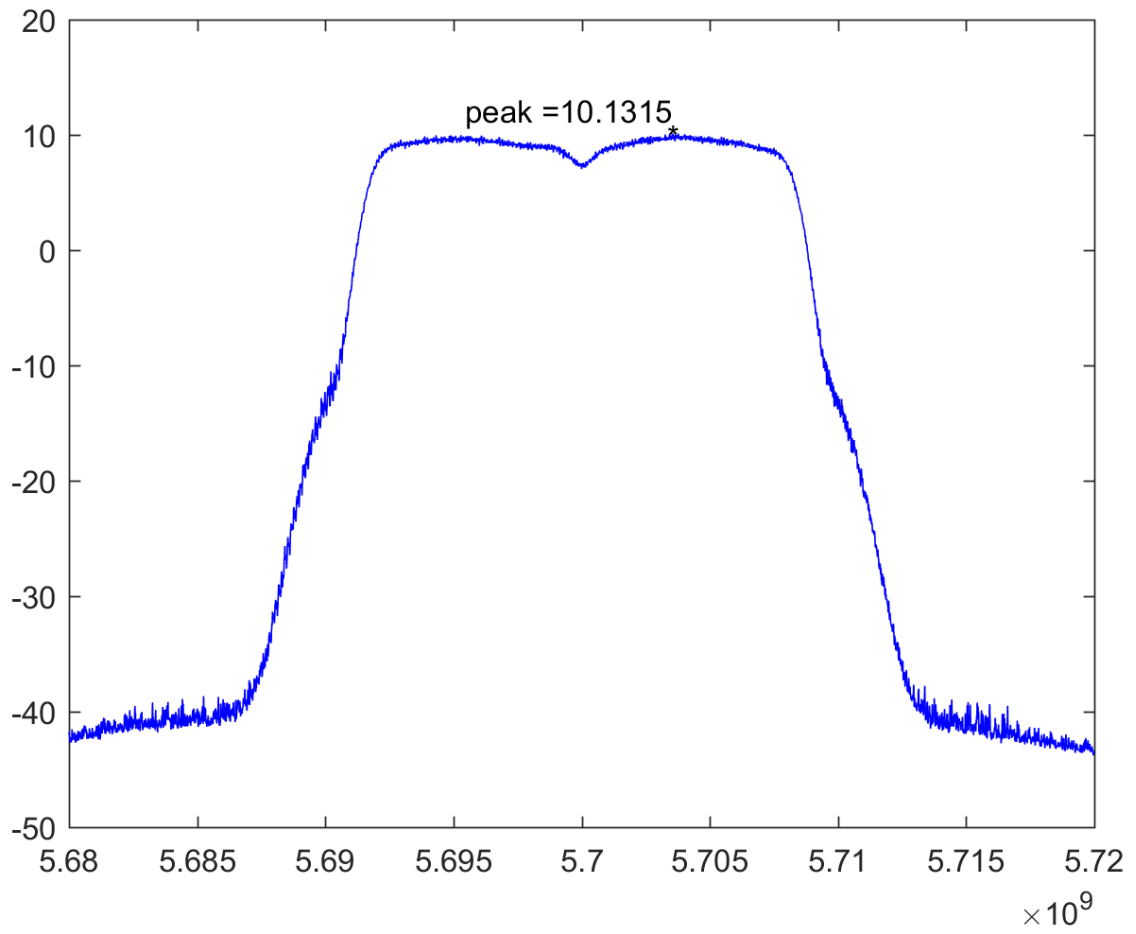
Channel 100 (5550MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

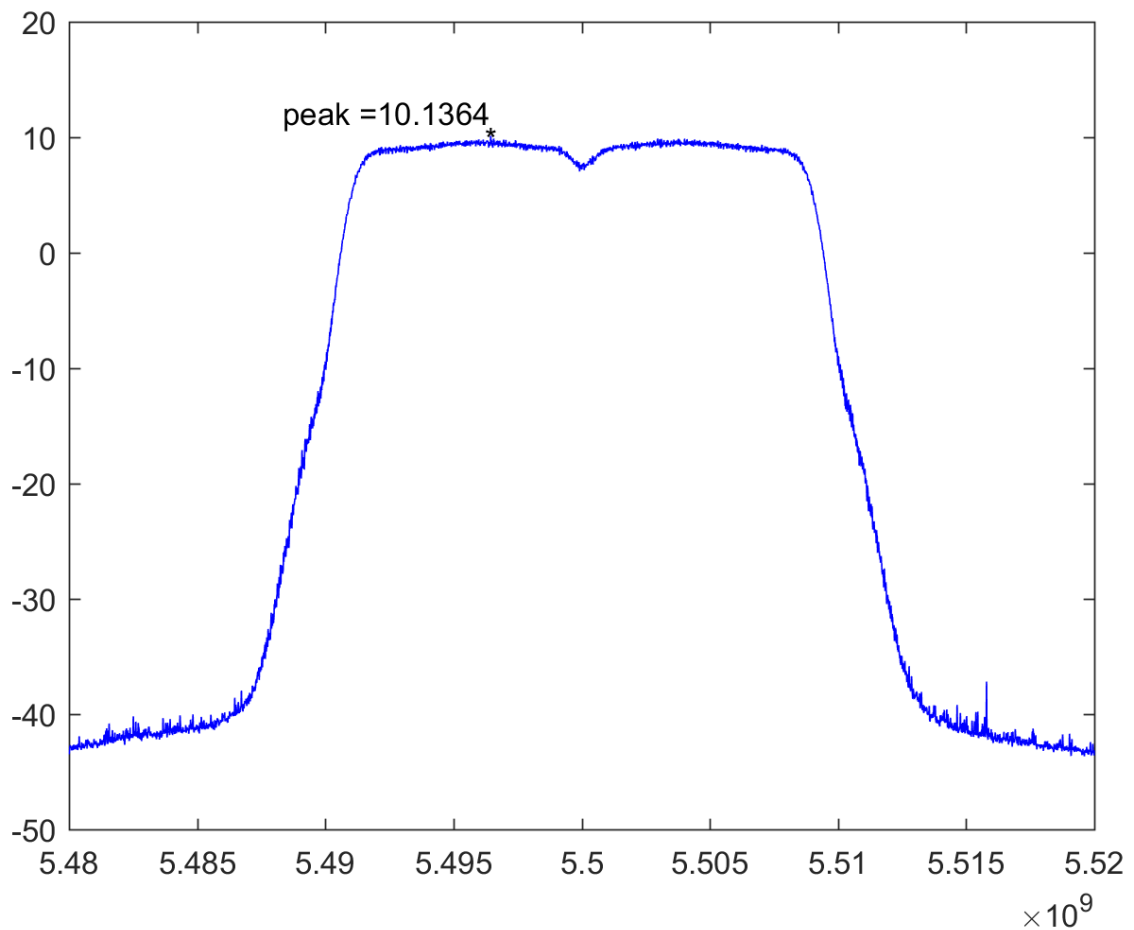


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
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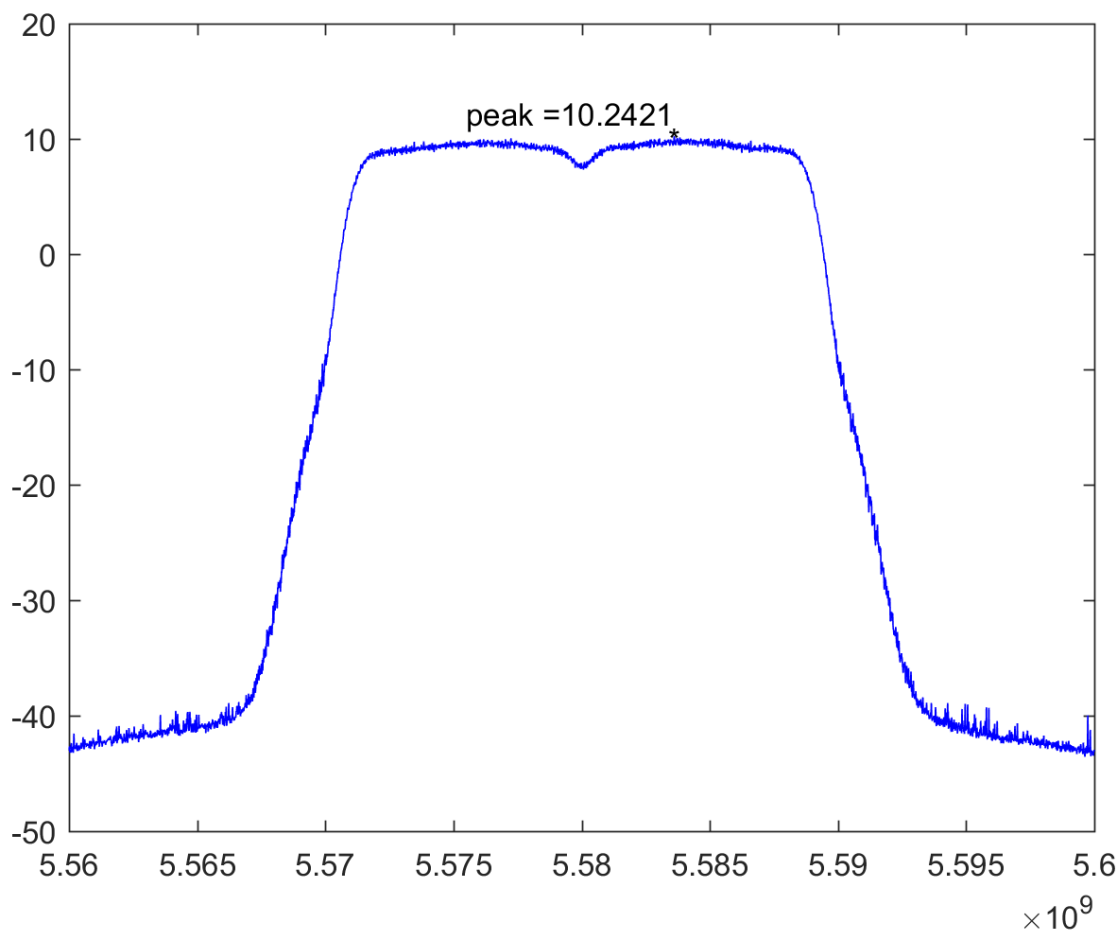
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
100	5500	10.136	≤ 10.449	Pass
116	5580	10.242	≤ 10.449	Pass
140	5700	9.999	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

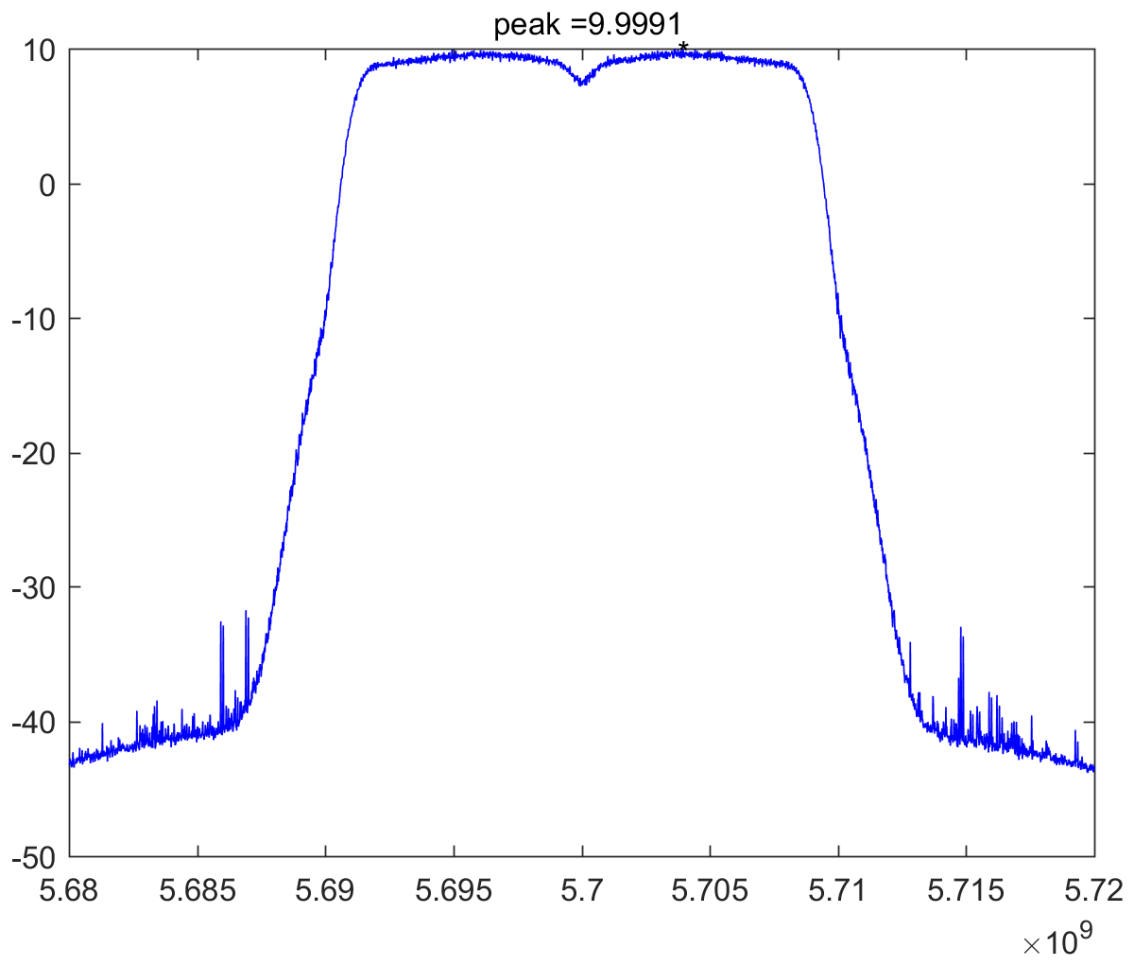
Channel 100 (5550MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)



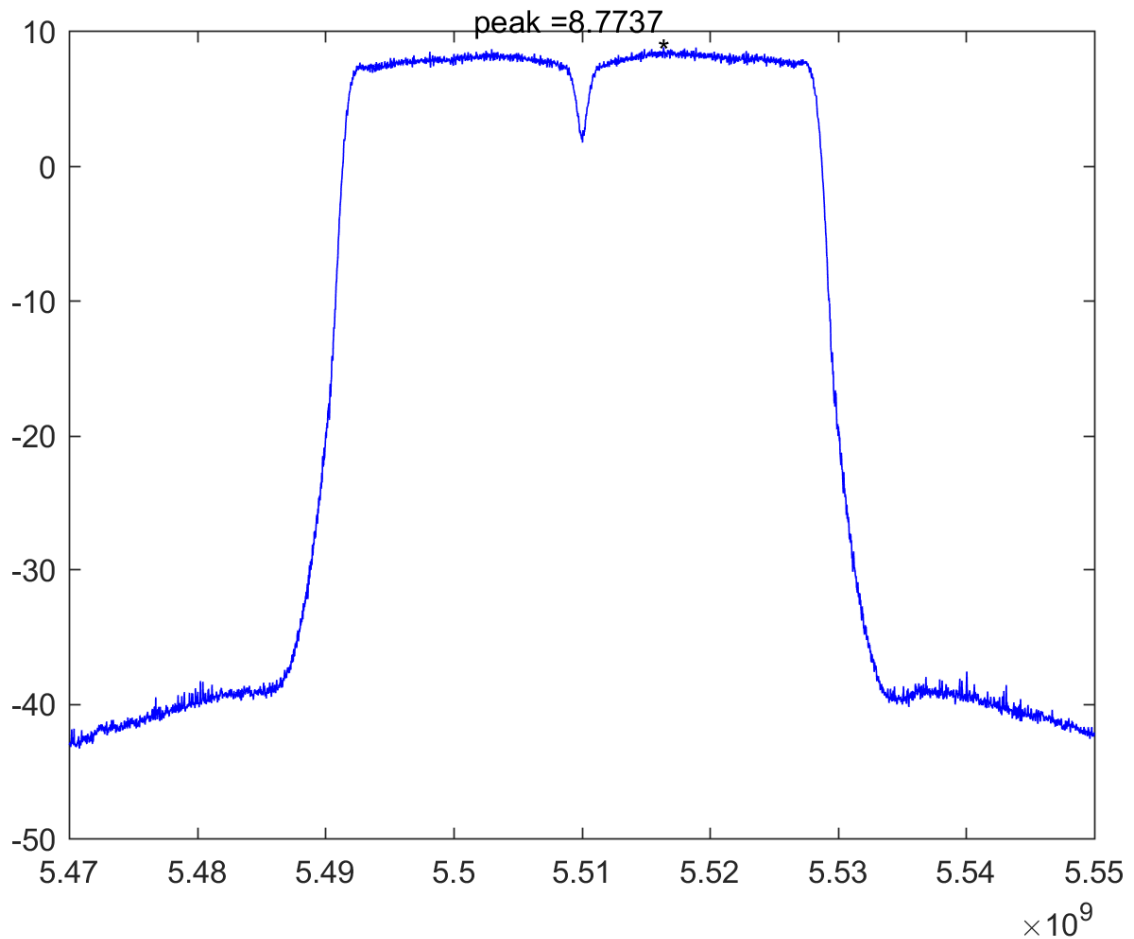
Product	Wireless-AC2900 Dual Band Gigabit Router		
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IEEE 802.11n(40MHz) (ANT 0+1+2+3)

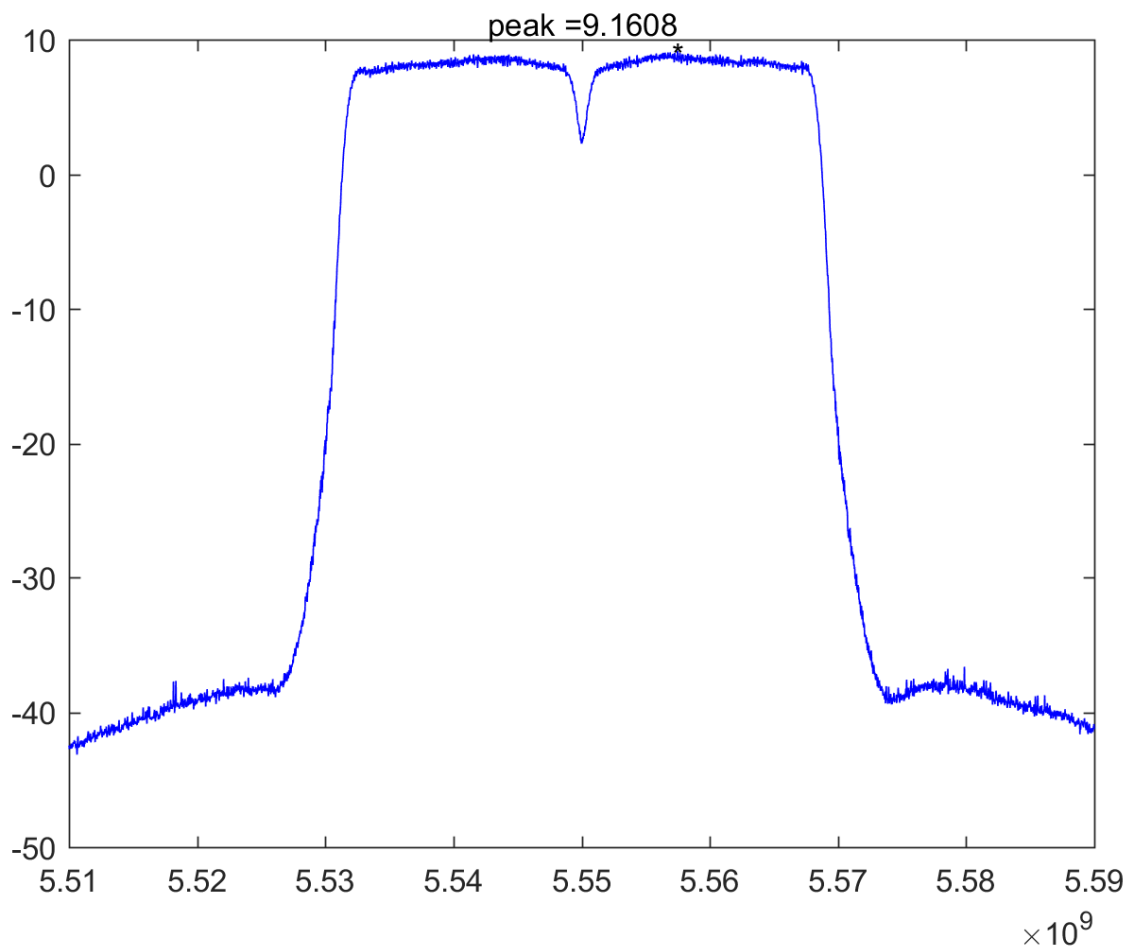
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
102	5510	8.774	≤ 10.449	Pass
110	5550	9.161	≤ 10.449	Pass
134	5670	9.913	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

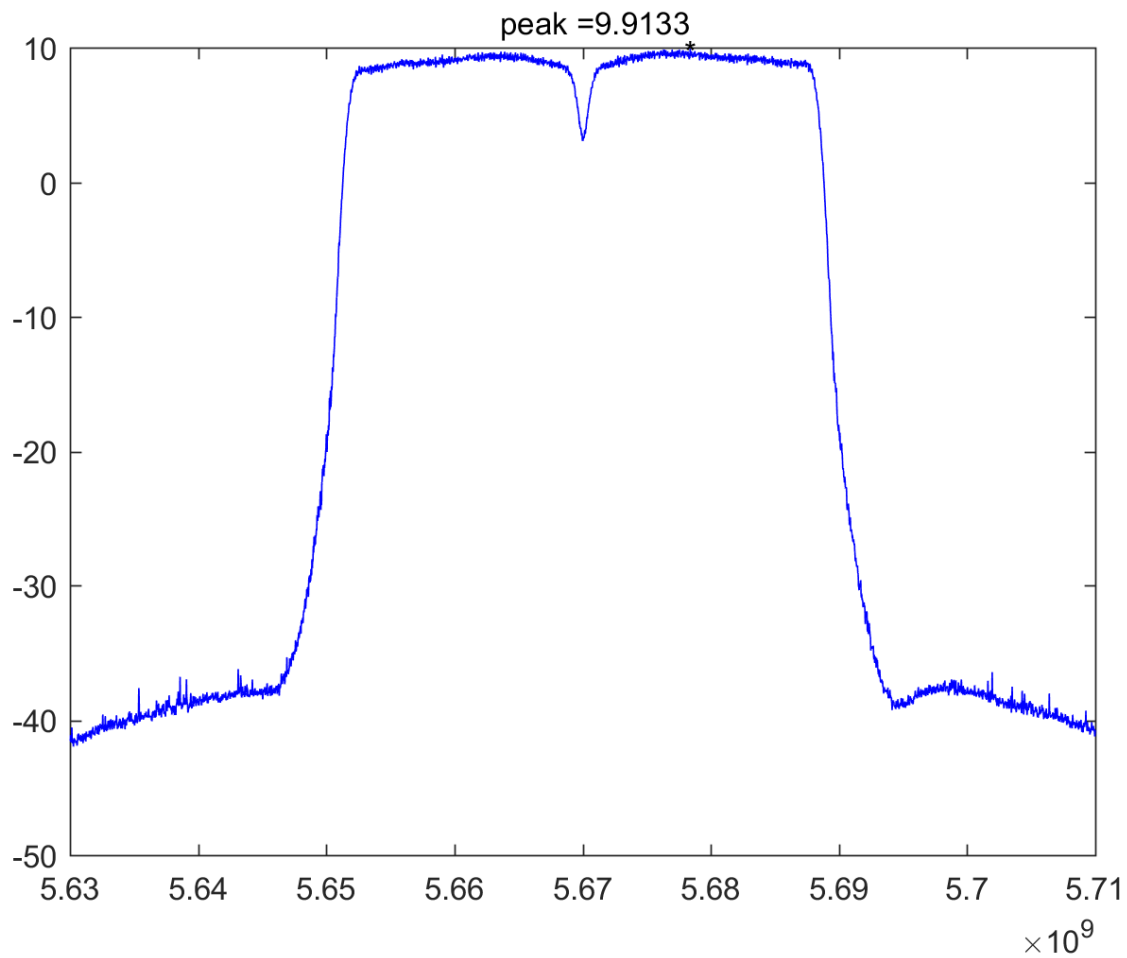
Channel 102 (5560MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)

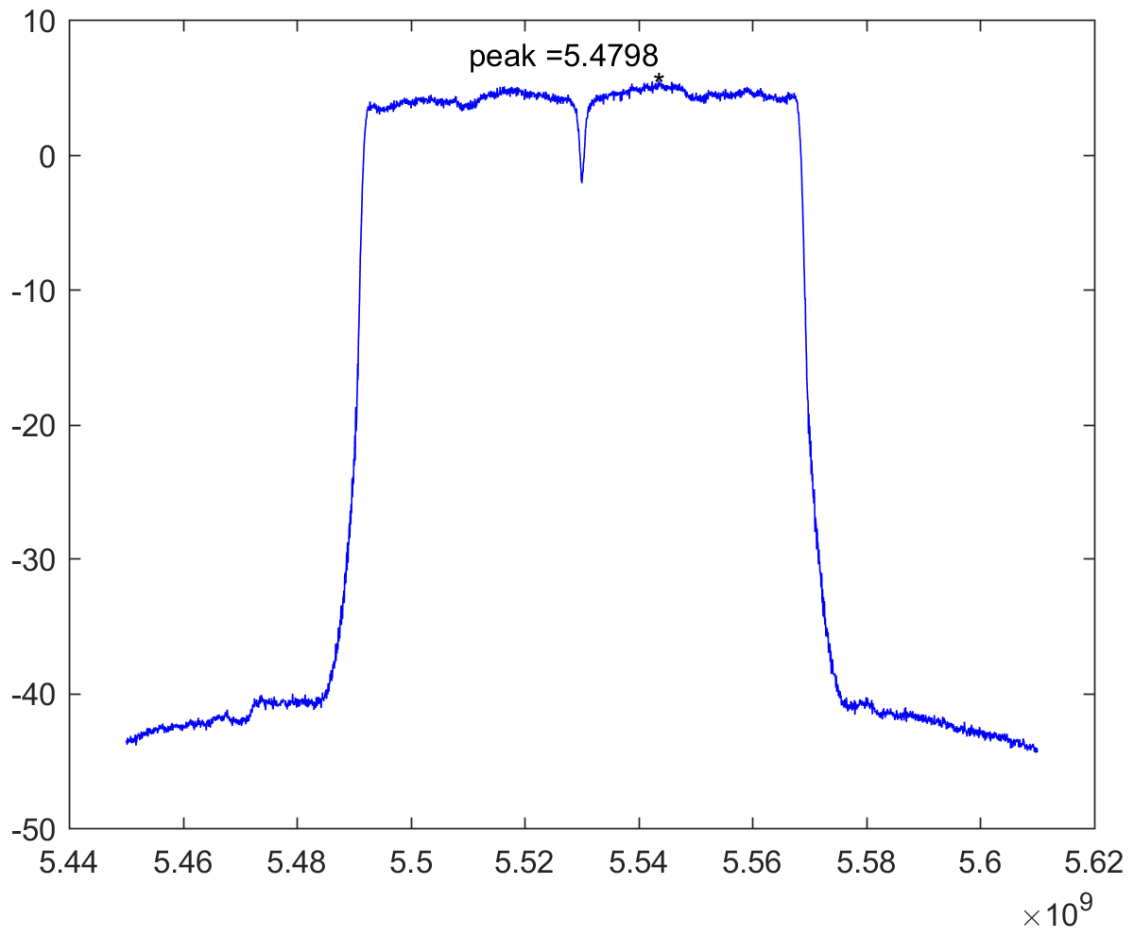


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
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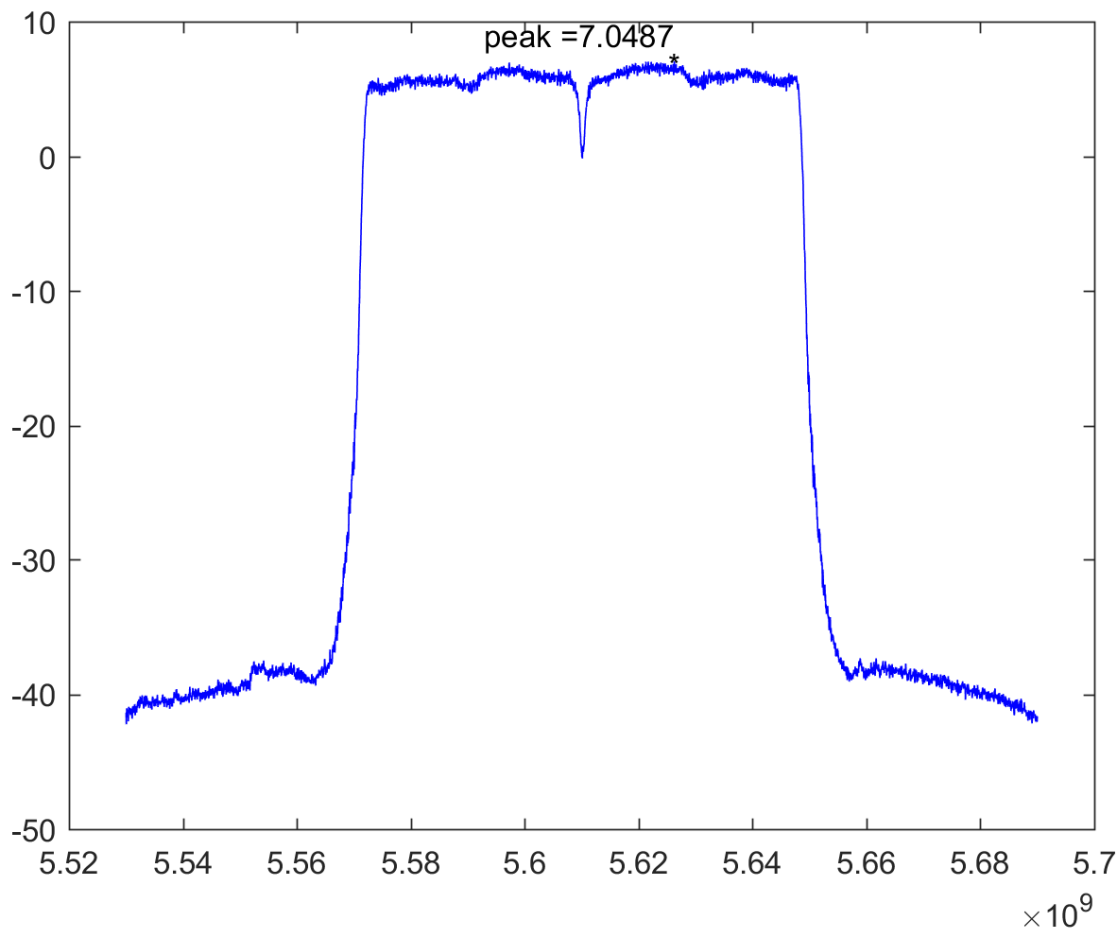
IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
106	5530	5.480	≤ 10.449	Pass
122	5610	7.049	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

Channel 106 (5530MHz)



Channel 122 (5610MHz)

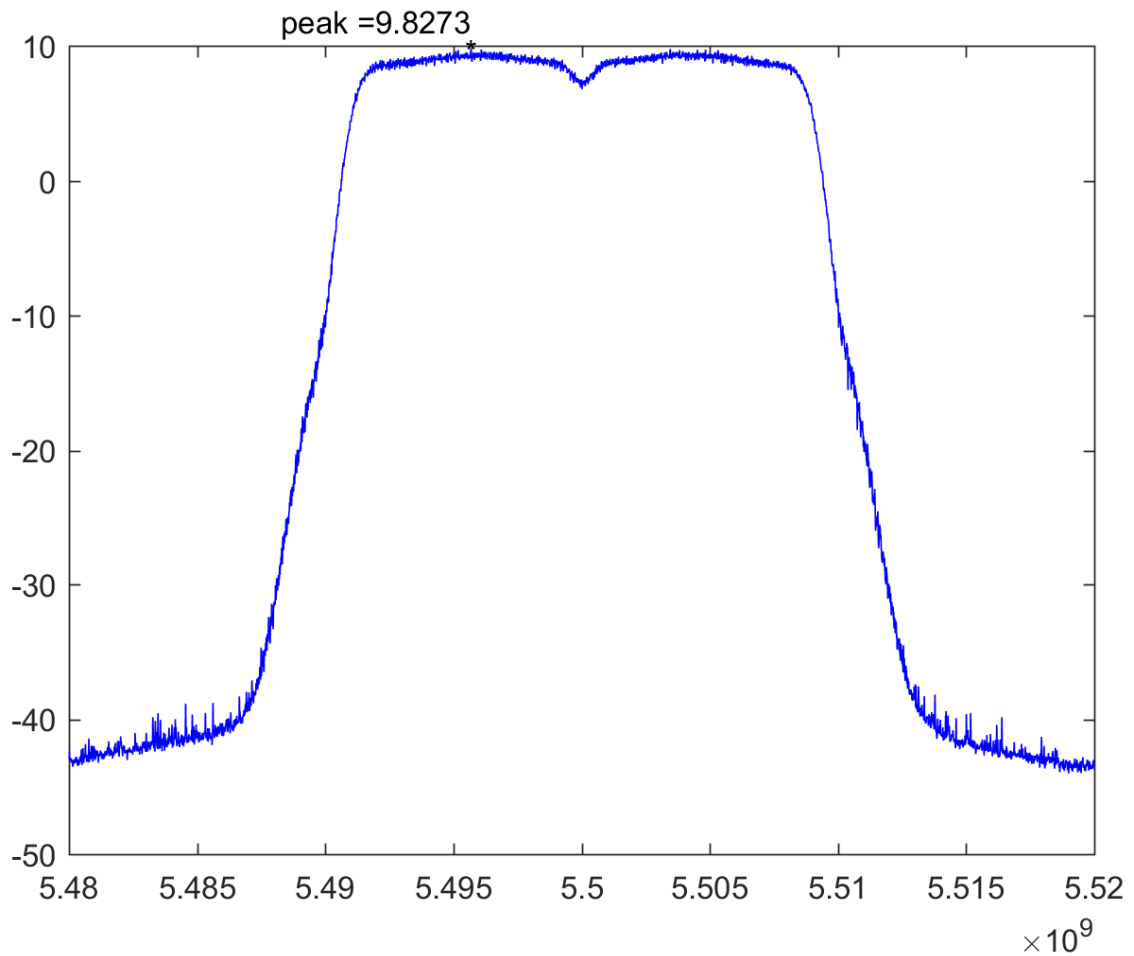


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

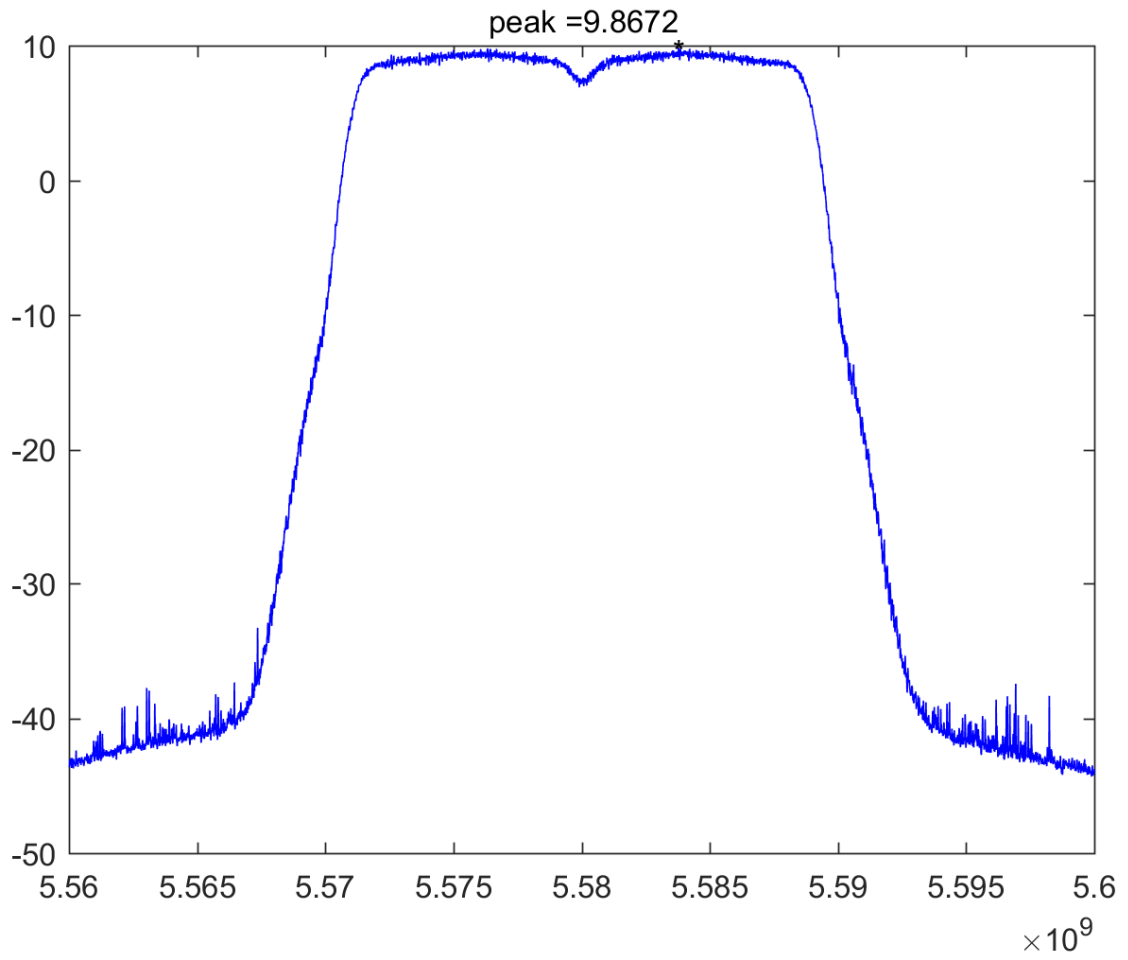
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
100	5500	9.827	≤ 10.449	Pass
116	5580	9.867	≤ 10.449	Pass
140	5700	9.804	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

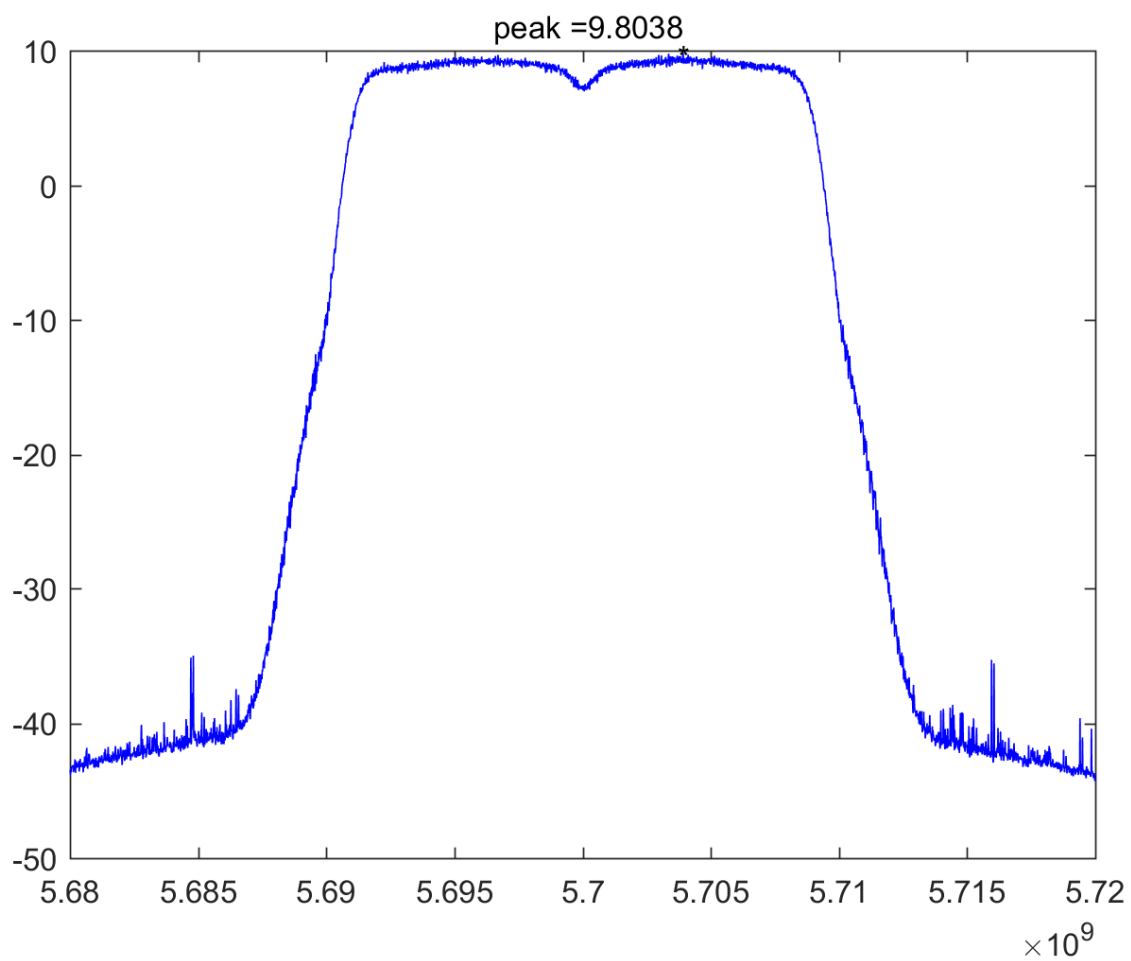
Channel 100 (5550MHz)



Channel 116 (5580MHz)



Channel 140 (5700MHz)

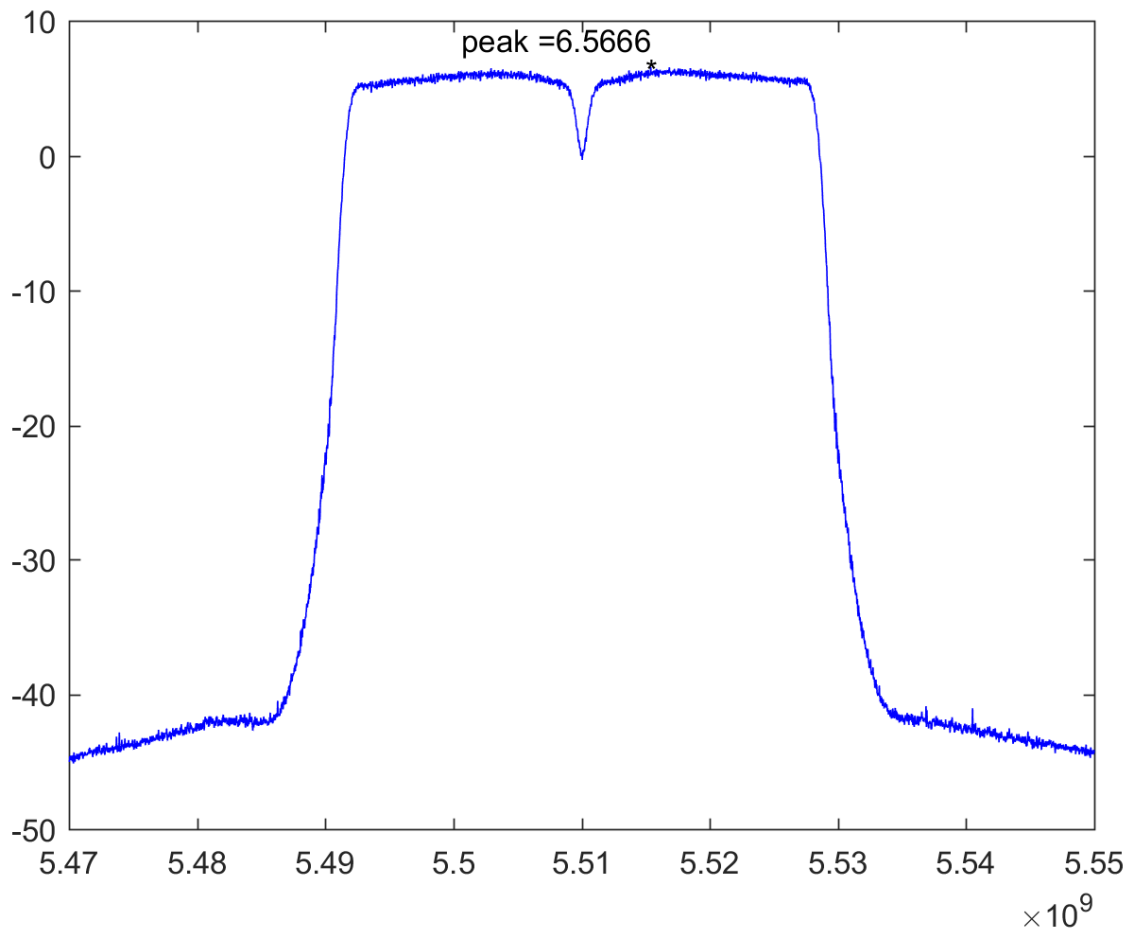


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

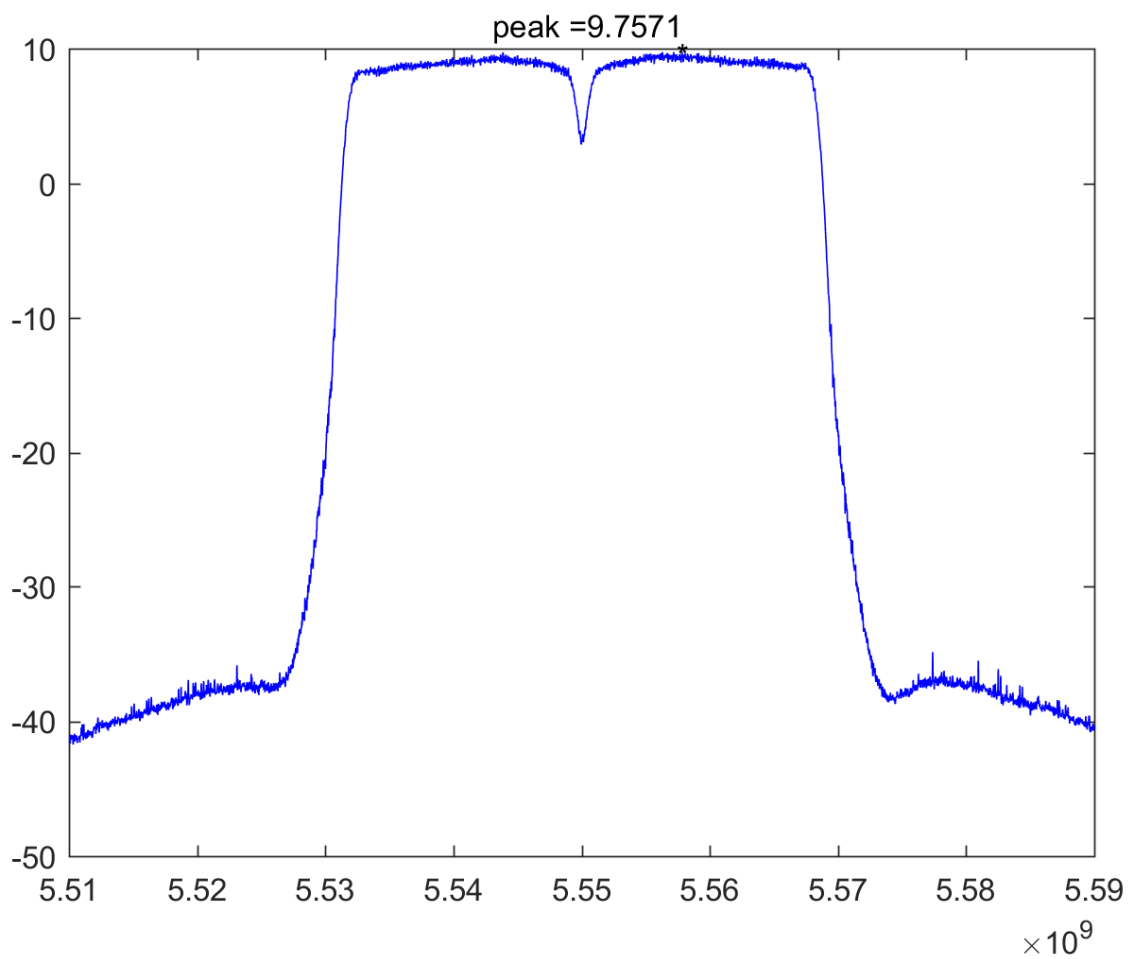
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
102	5510	6.567	≤ 10.449	Pass
110	5550	9.757	≤ 10.449	Pass
134	5670	6.696	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

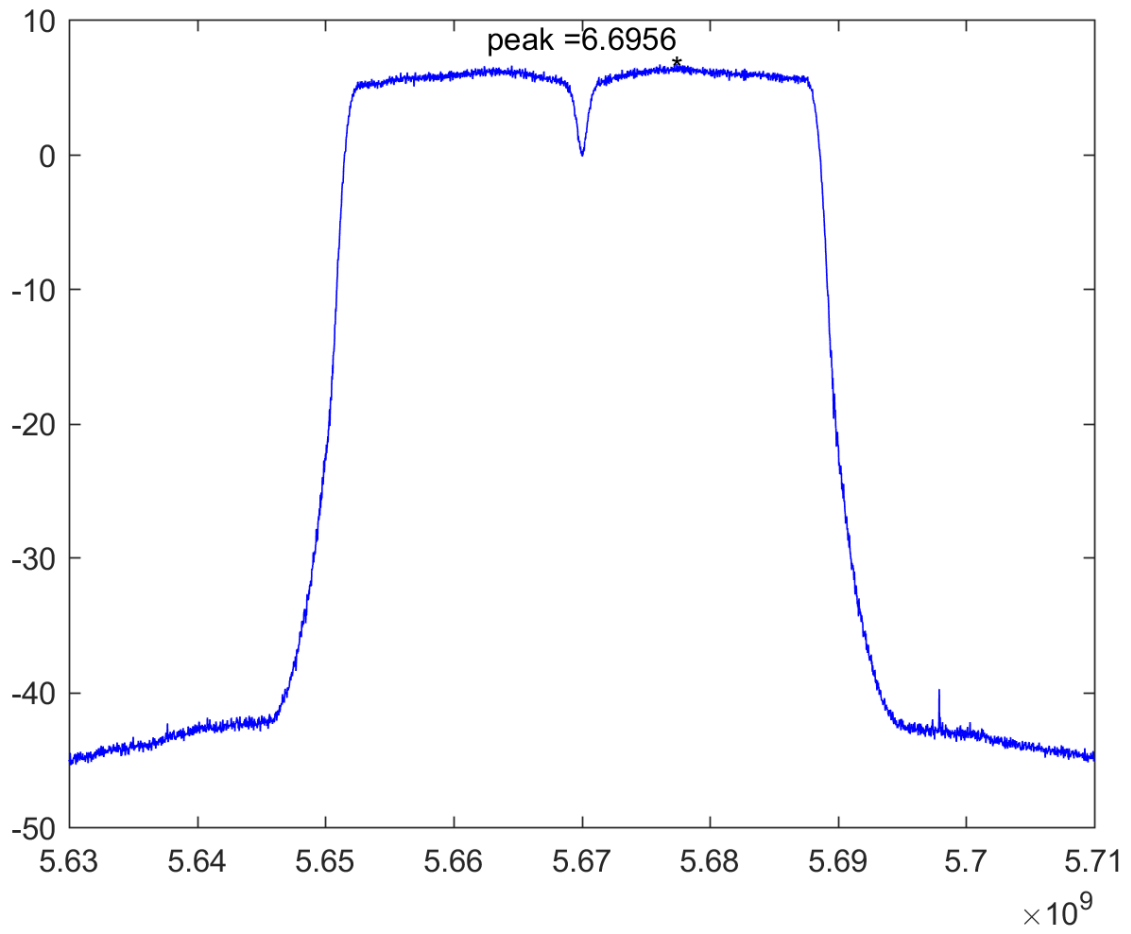
Channel 102 (5560MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)

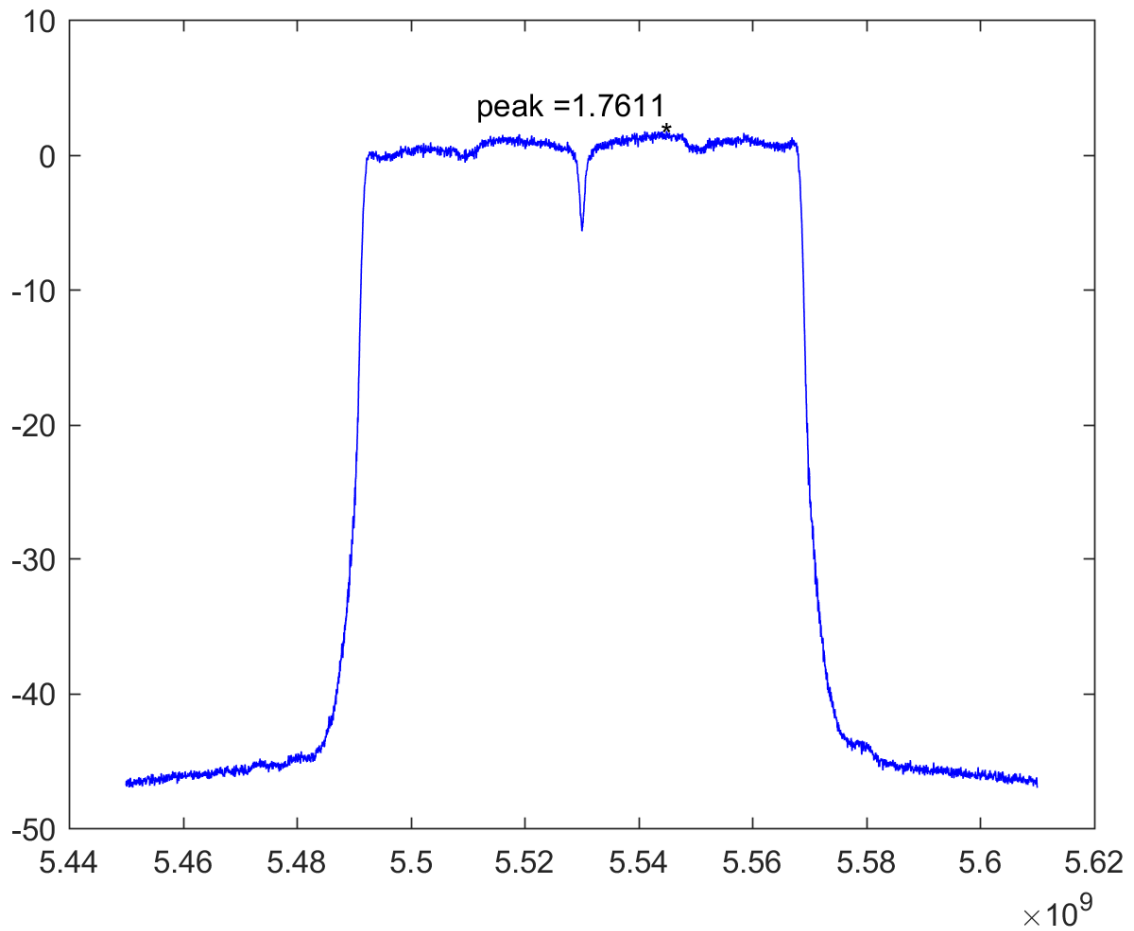


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/06/02	Test Site	SR10-H

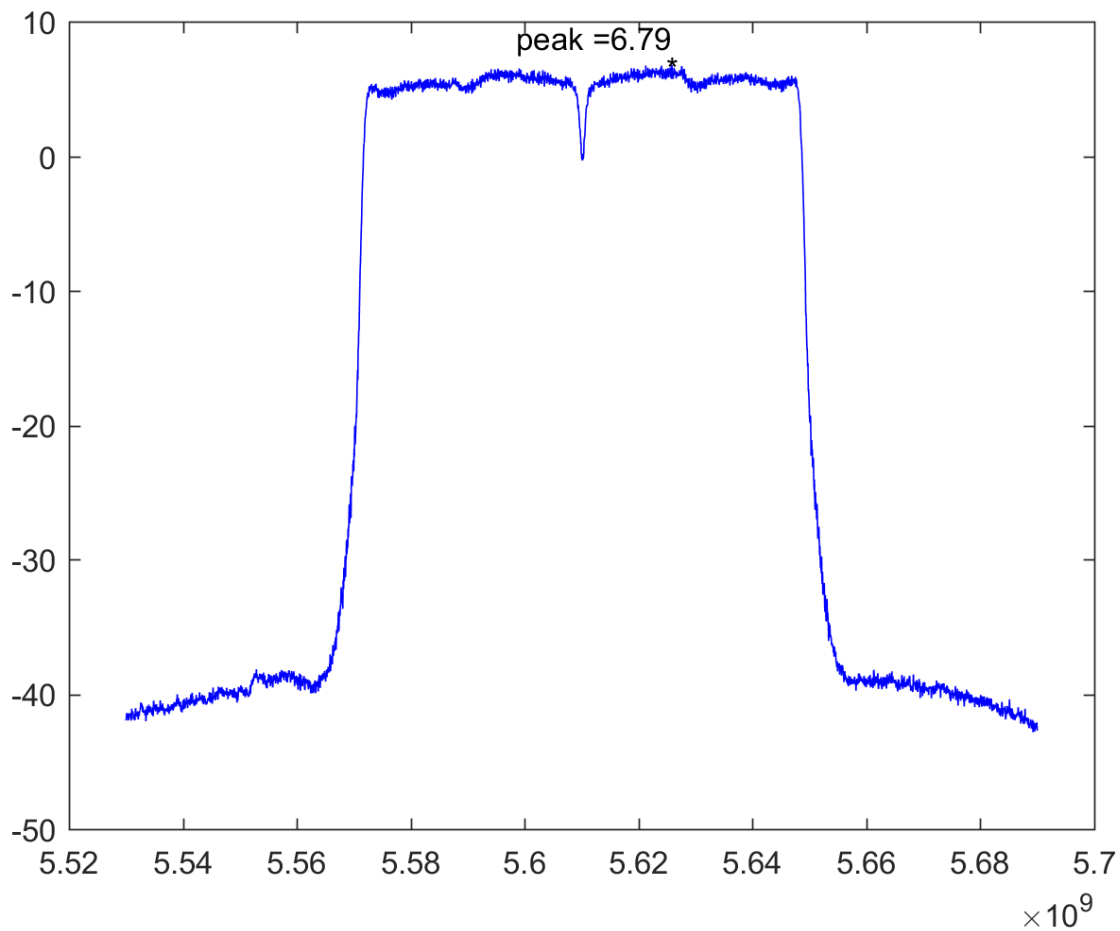
IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
106	5530	1.761	≤ 10.449	Pass
122	5610	6.790	≤ 10.449	Pass

Array Gain: = 6.551 dBi
 Limit=11-(6.551dBi-6dBi)=10.449dBi

Channel 106 (5530MHz)



Channel 122 (5610MHz)



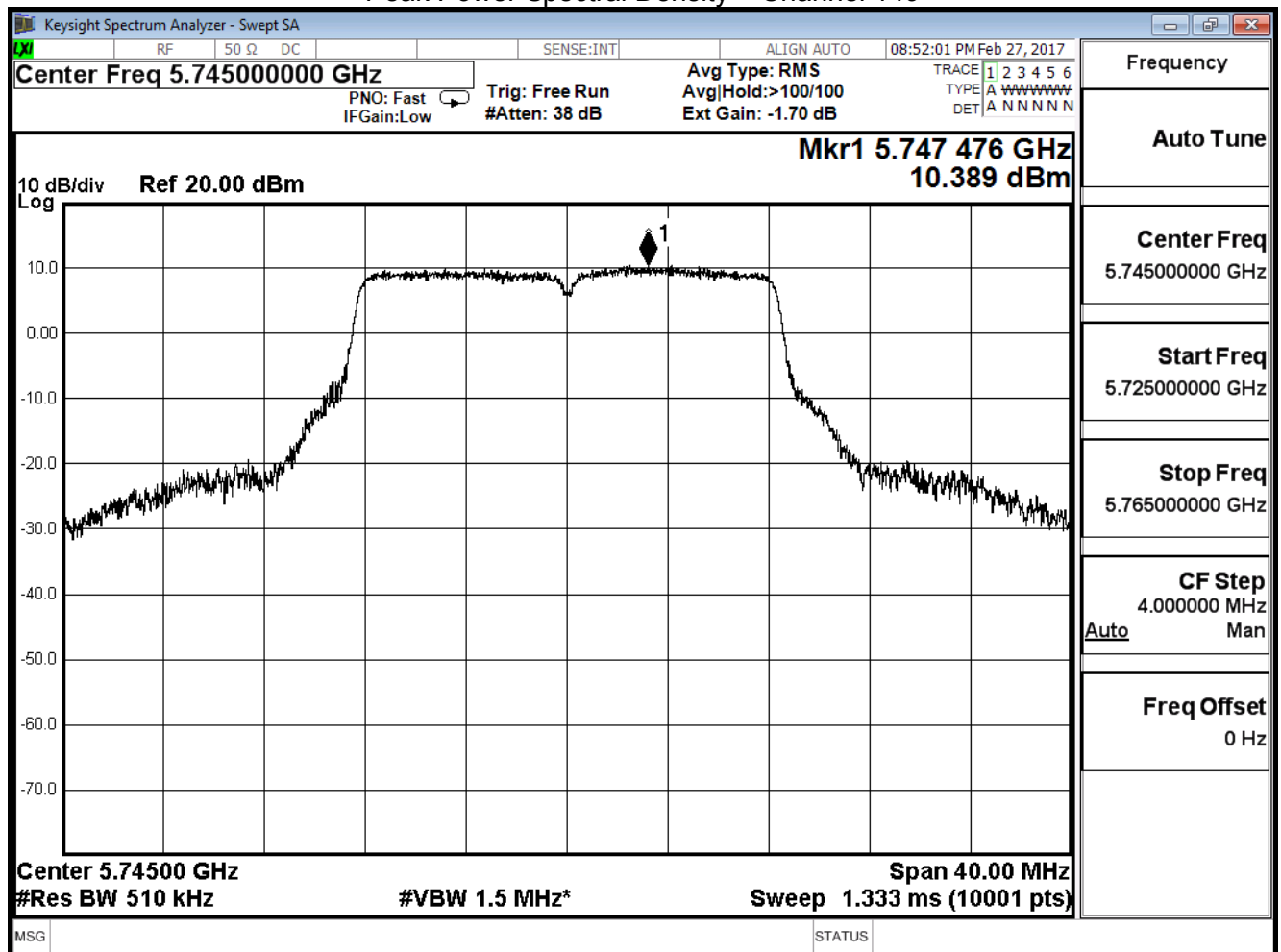
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.389	≤29.38	Pass
157	5785	10.455	≤29.38	Pass
165	5825	10.138	≤29.38	Pass

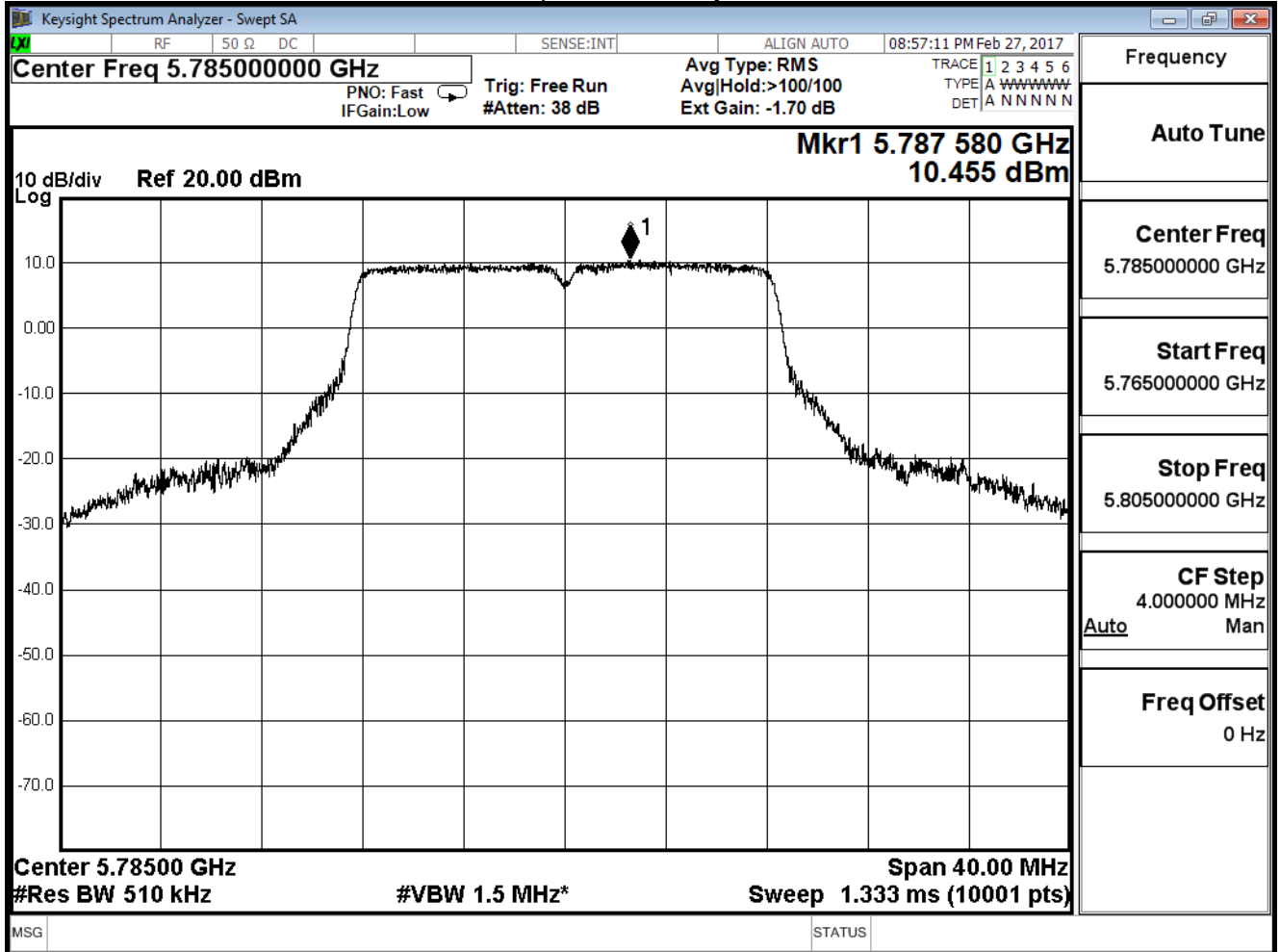
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

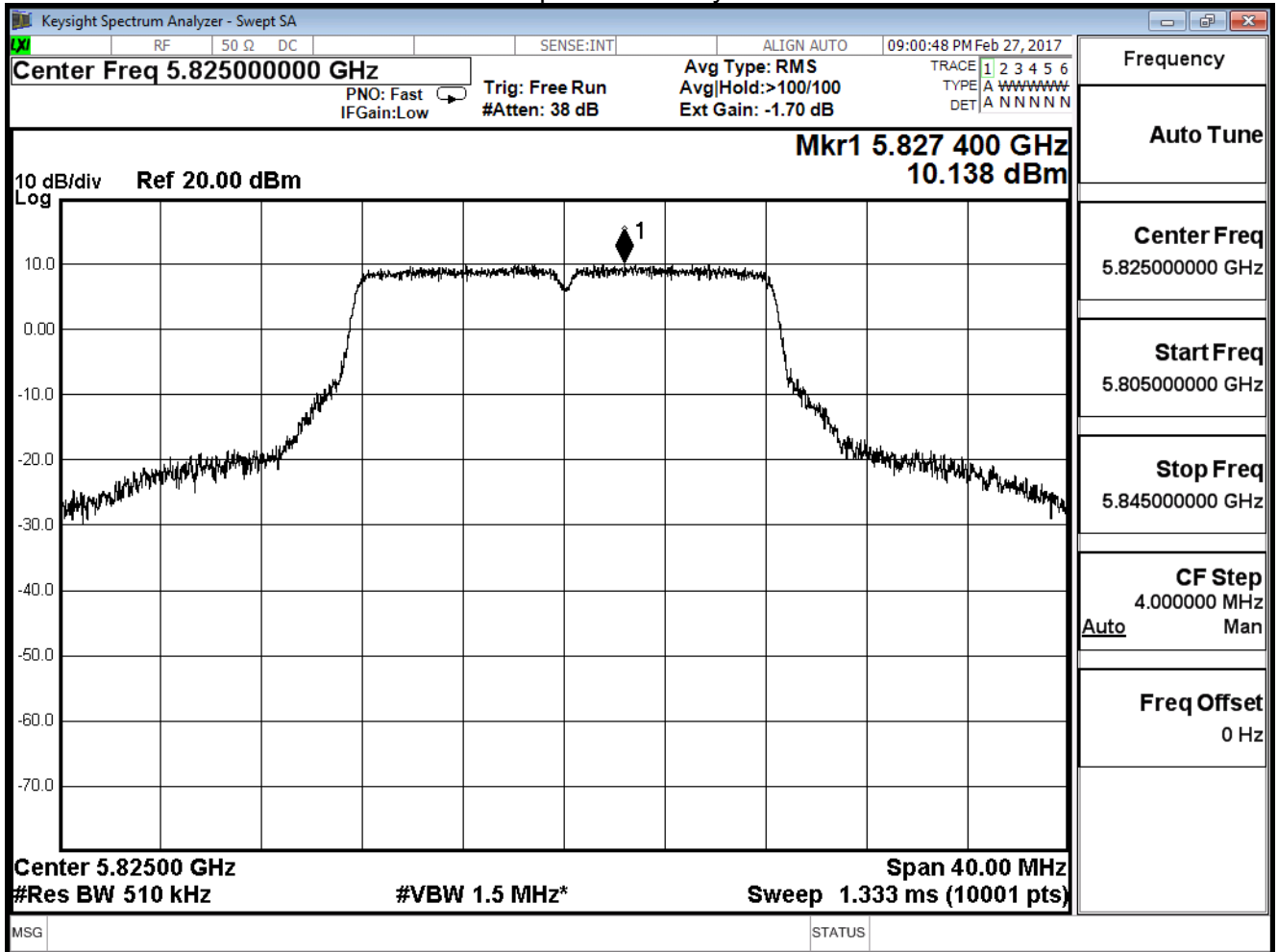
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



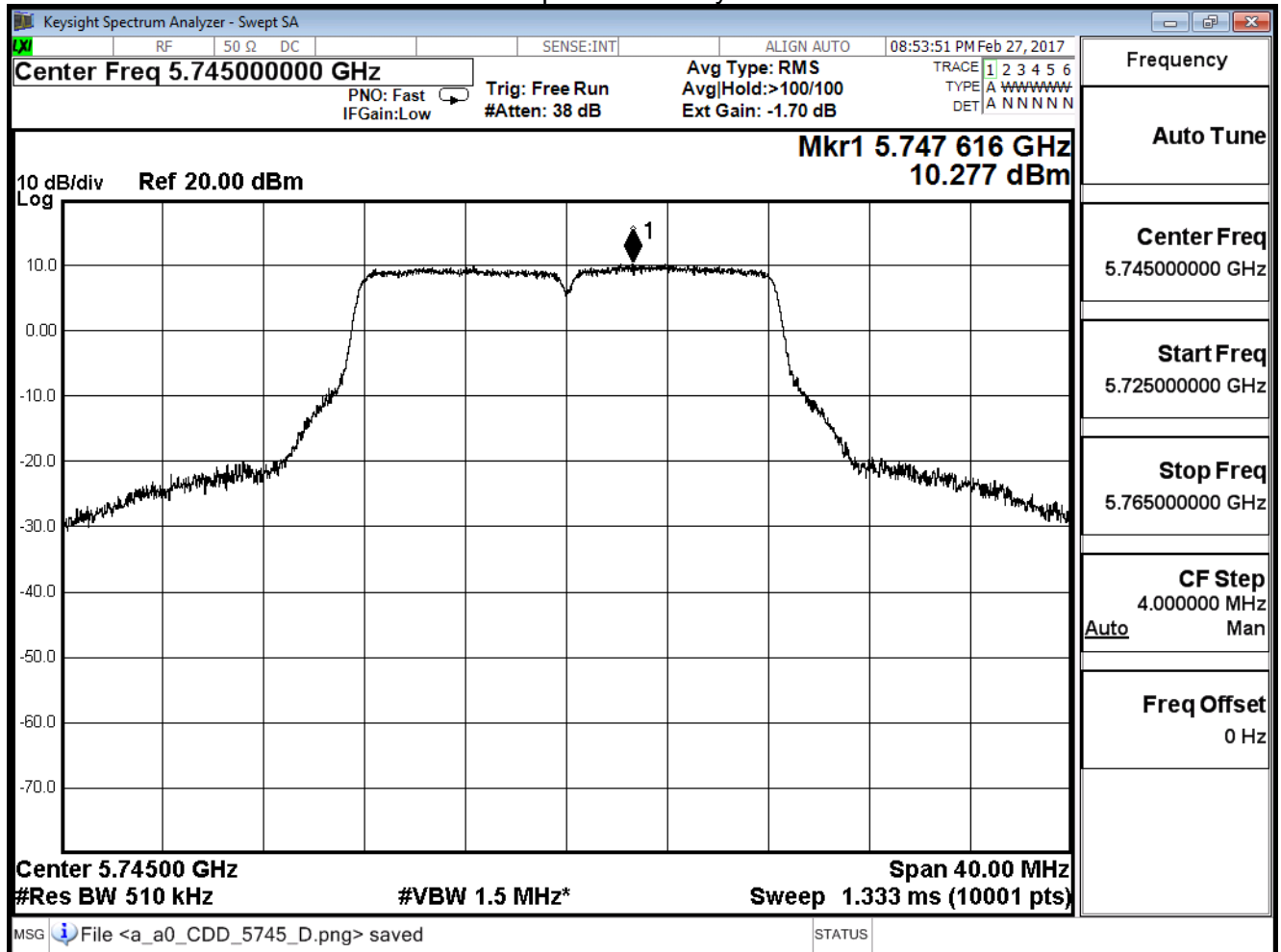
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	10.277	≤29.38	Pass
157	5785	10.185	≤29.38	Pass
165	5825	10.139	≤29.38	Pass

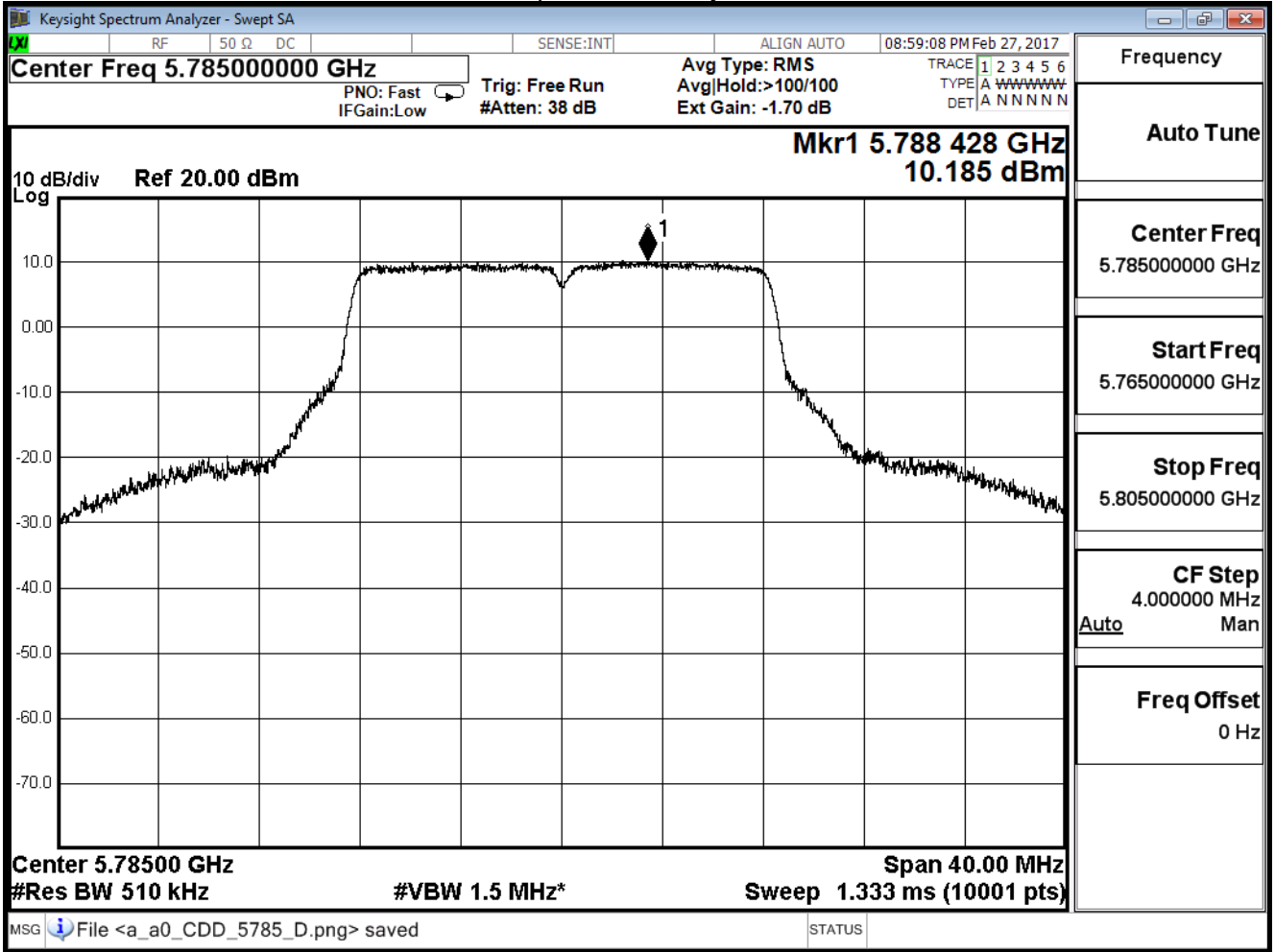
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

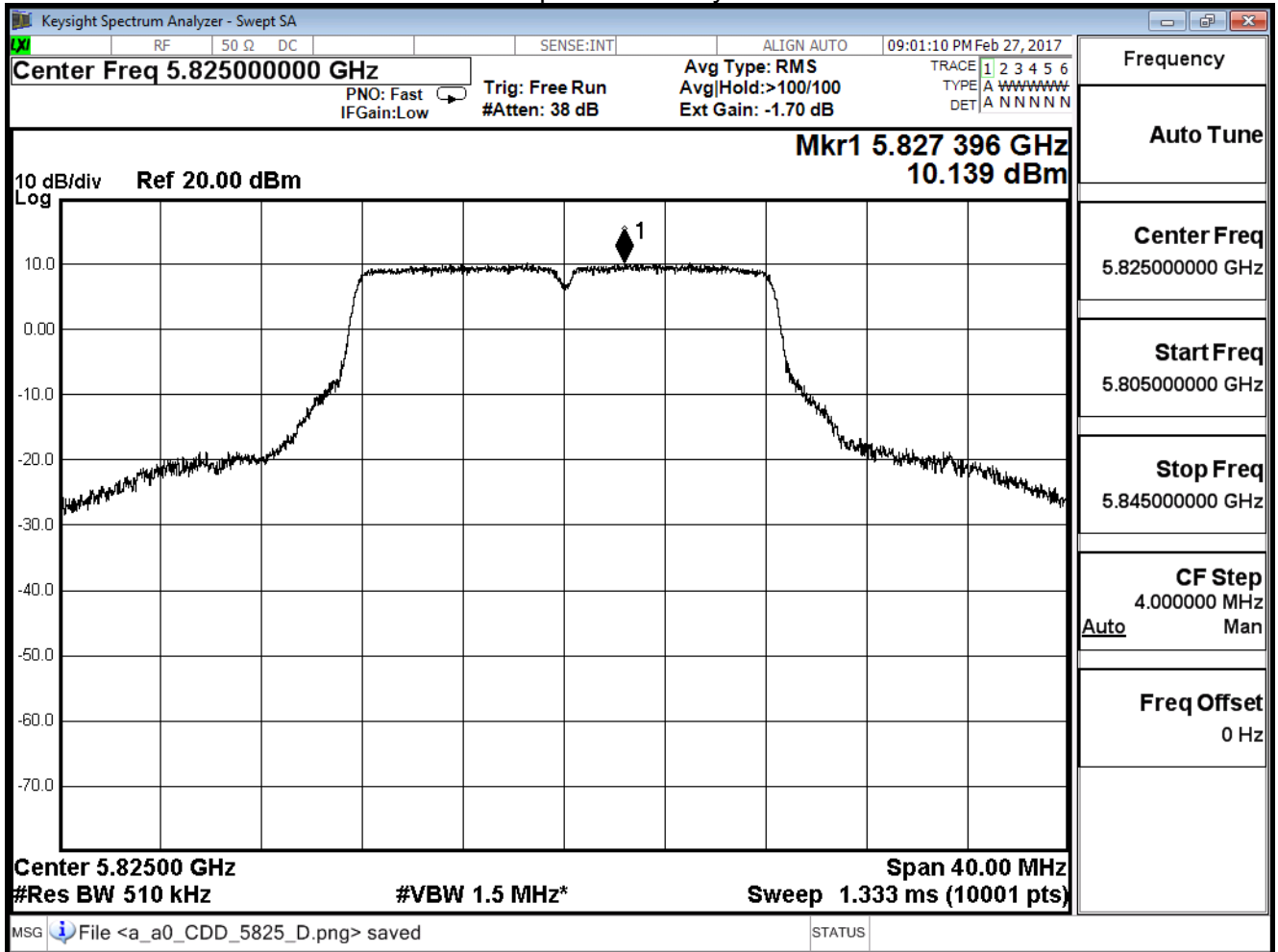
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



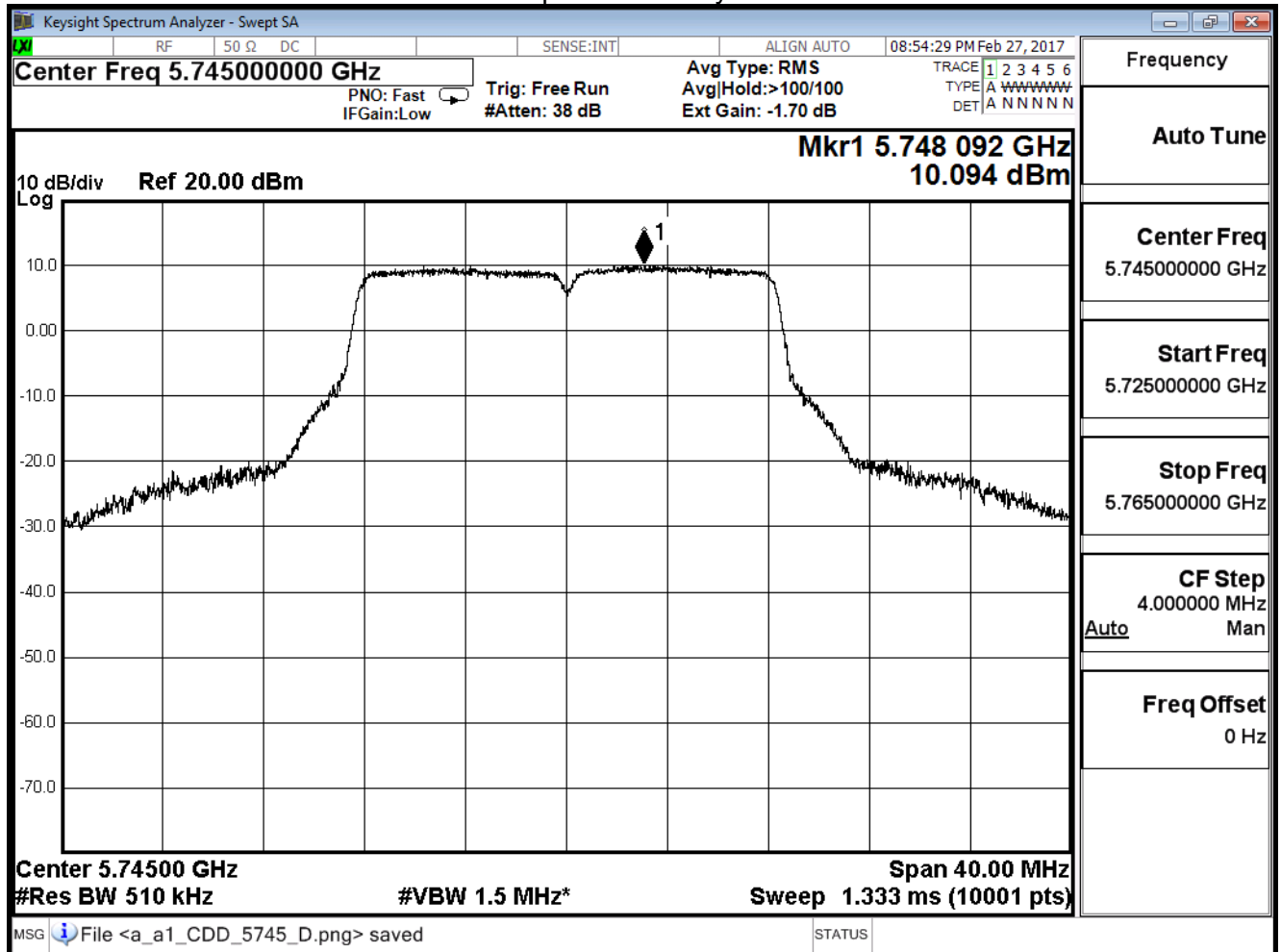
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.094	≤29.38	Pass
157	5785	10.225	≤29.38	Pass
165	5825	10.141	≤29.38	Pass

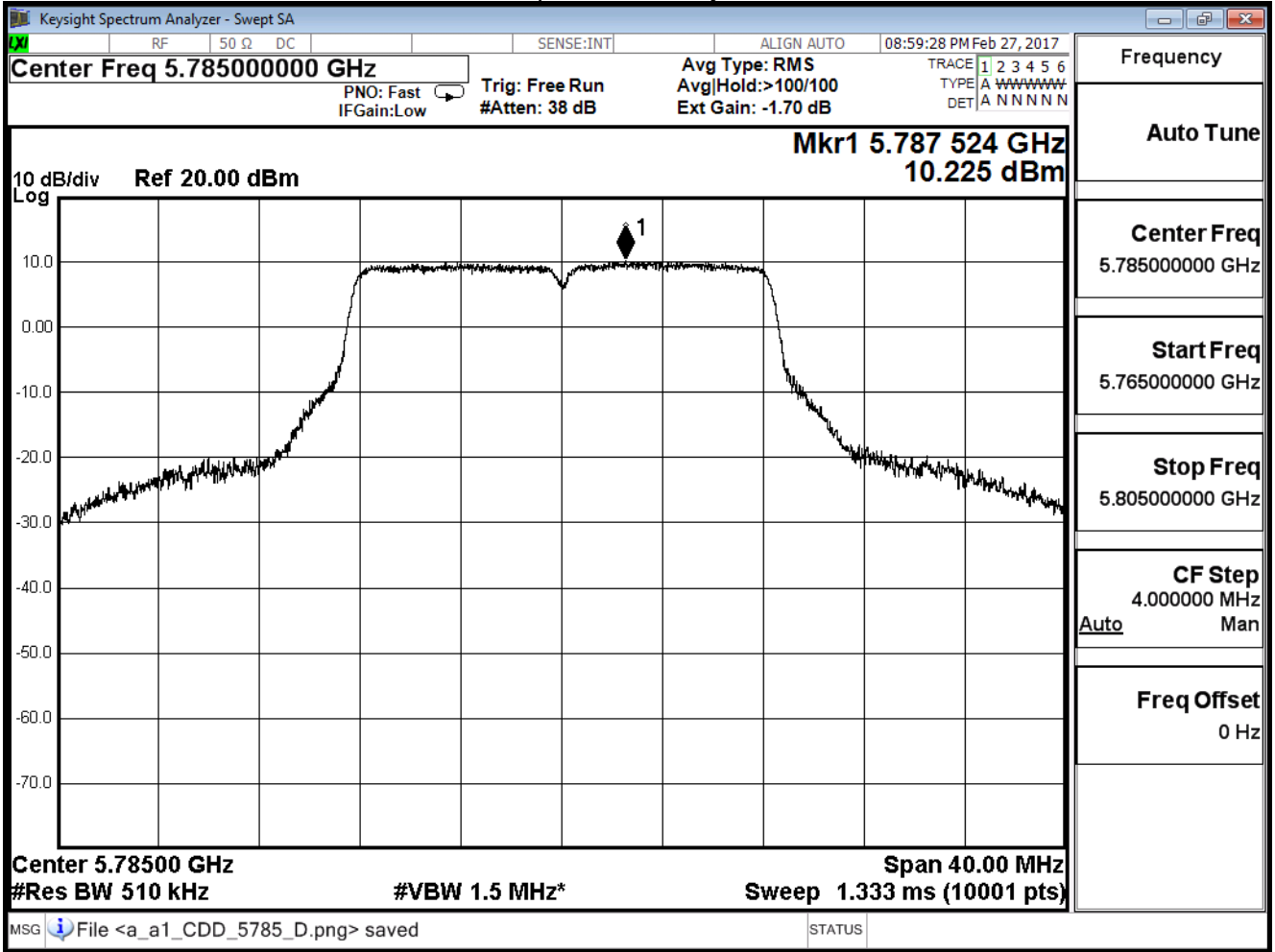
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

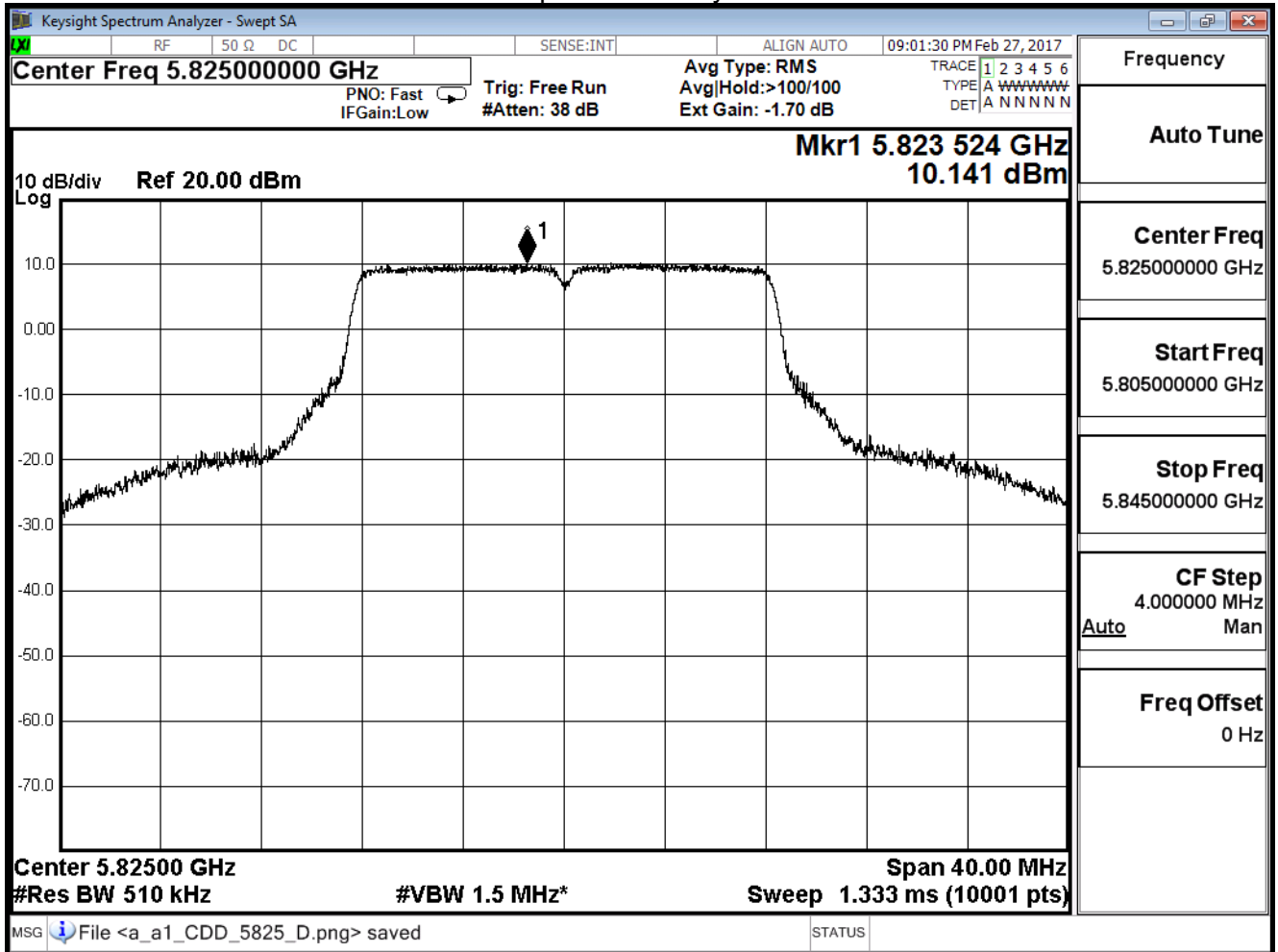
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



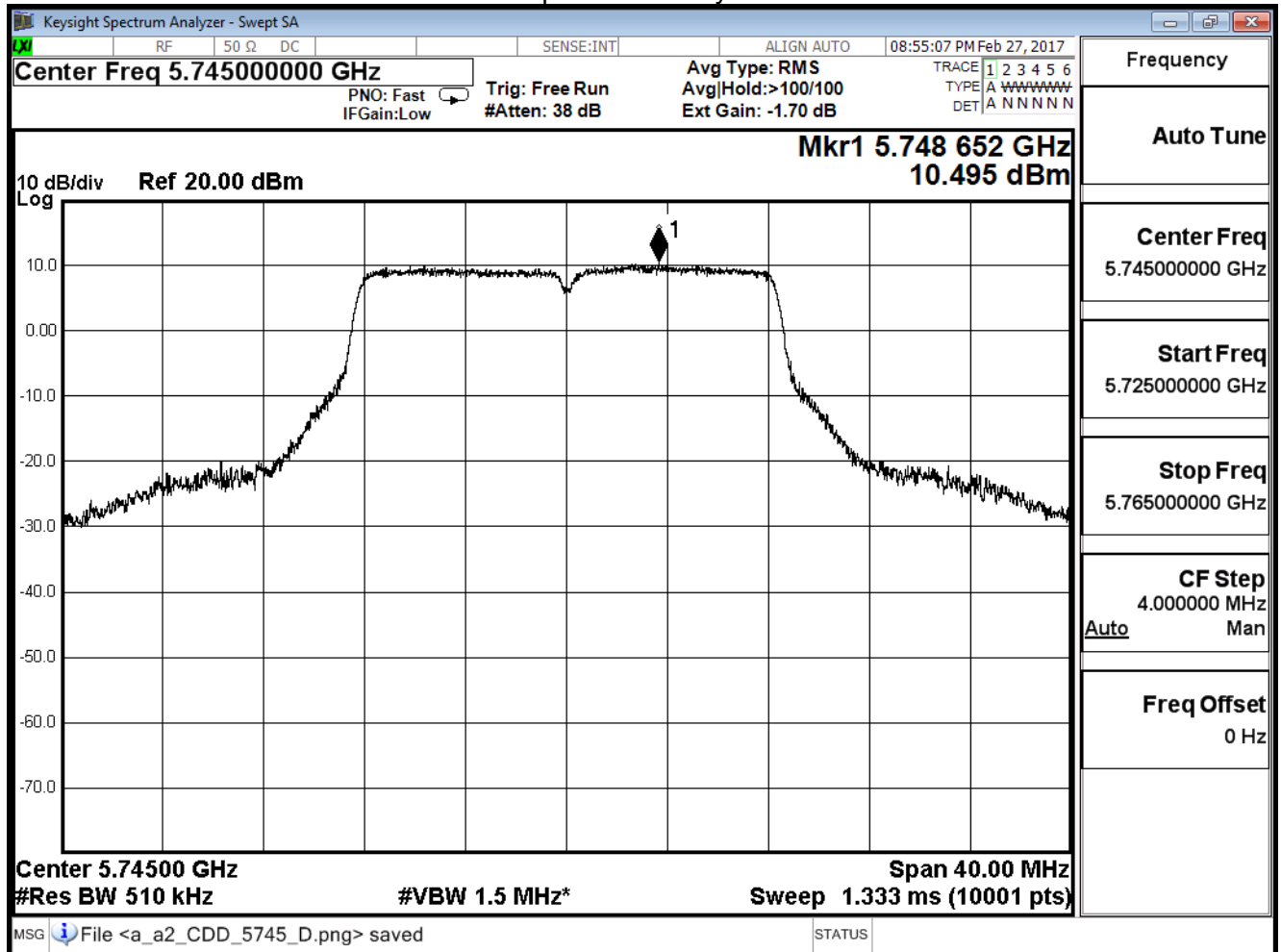
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.495	≤29.38	Pass
157	5785	10.133	≤29.38	Pass
165	5825	10.162	≤29.38	Pass

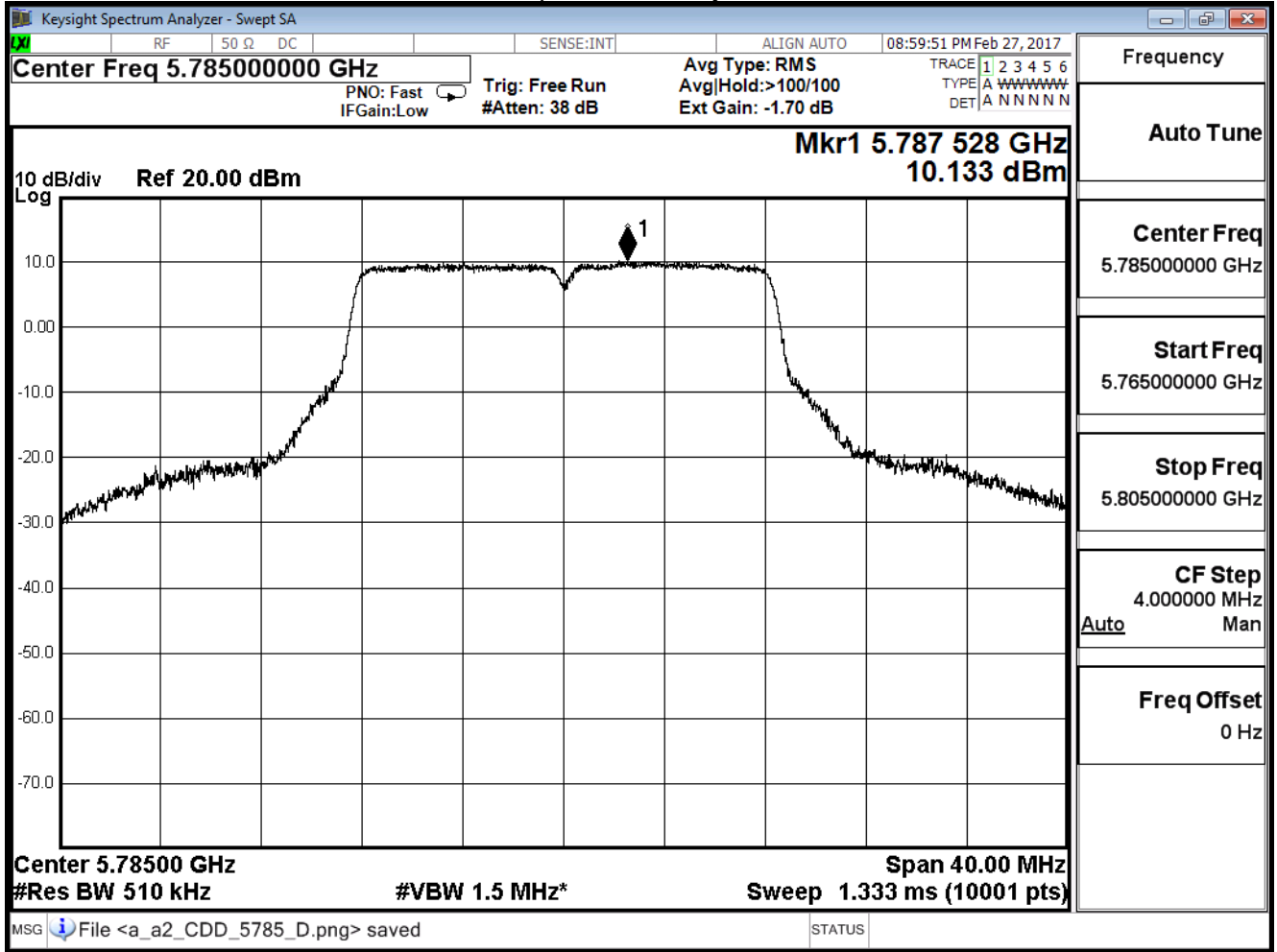
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

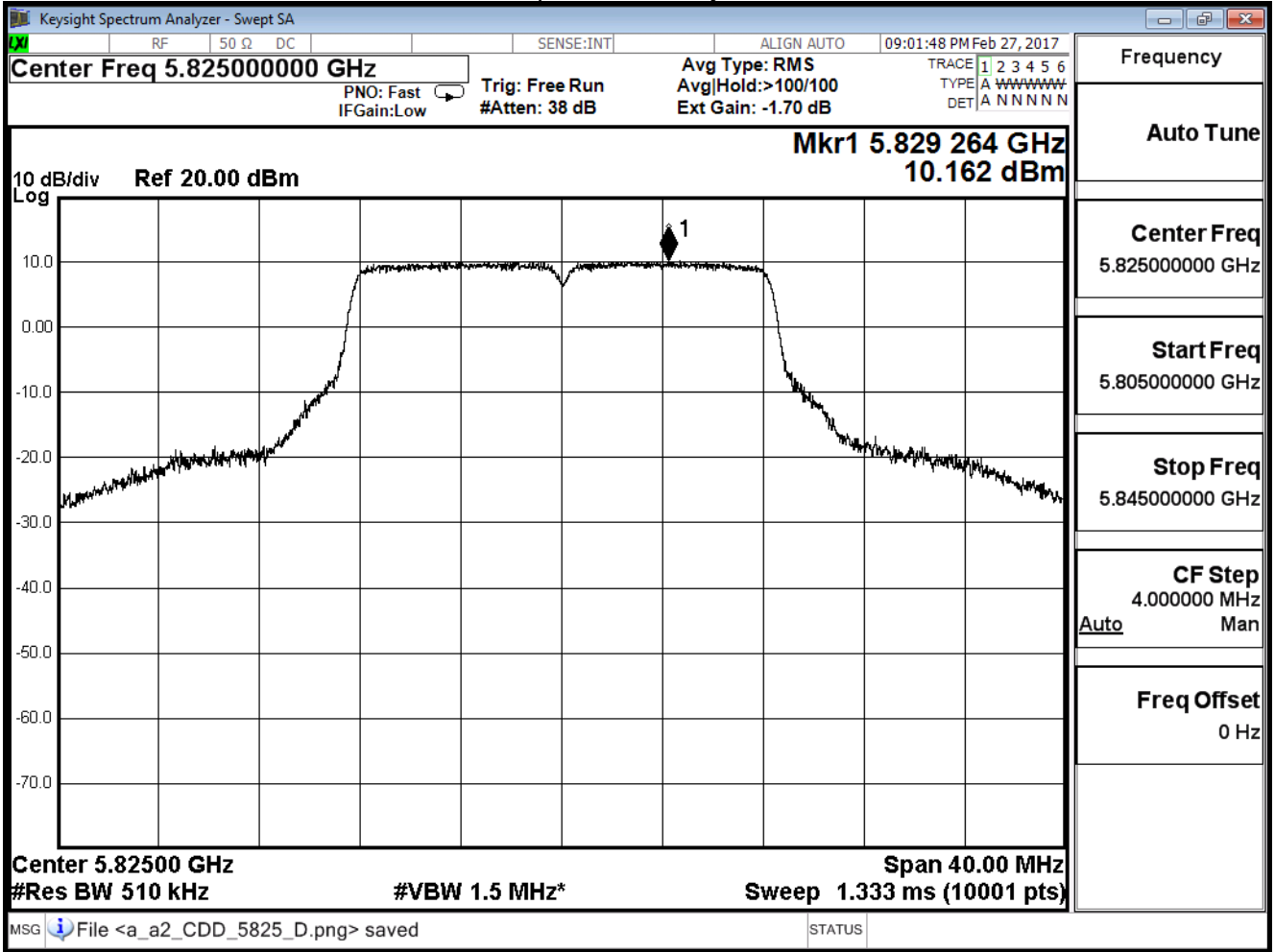
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	16.337	≤29.38	Pass
157	5785	16.272	≤29.38	Pass
165	5825	16.166	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

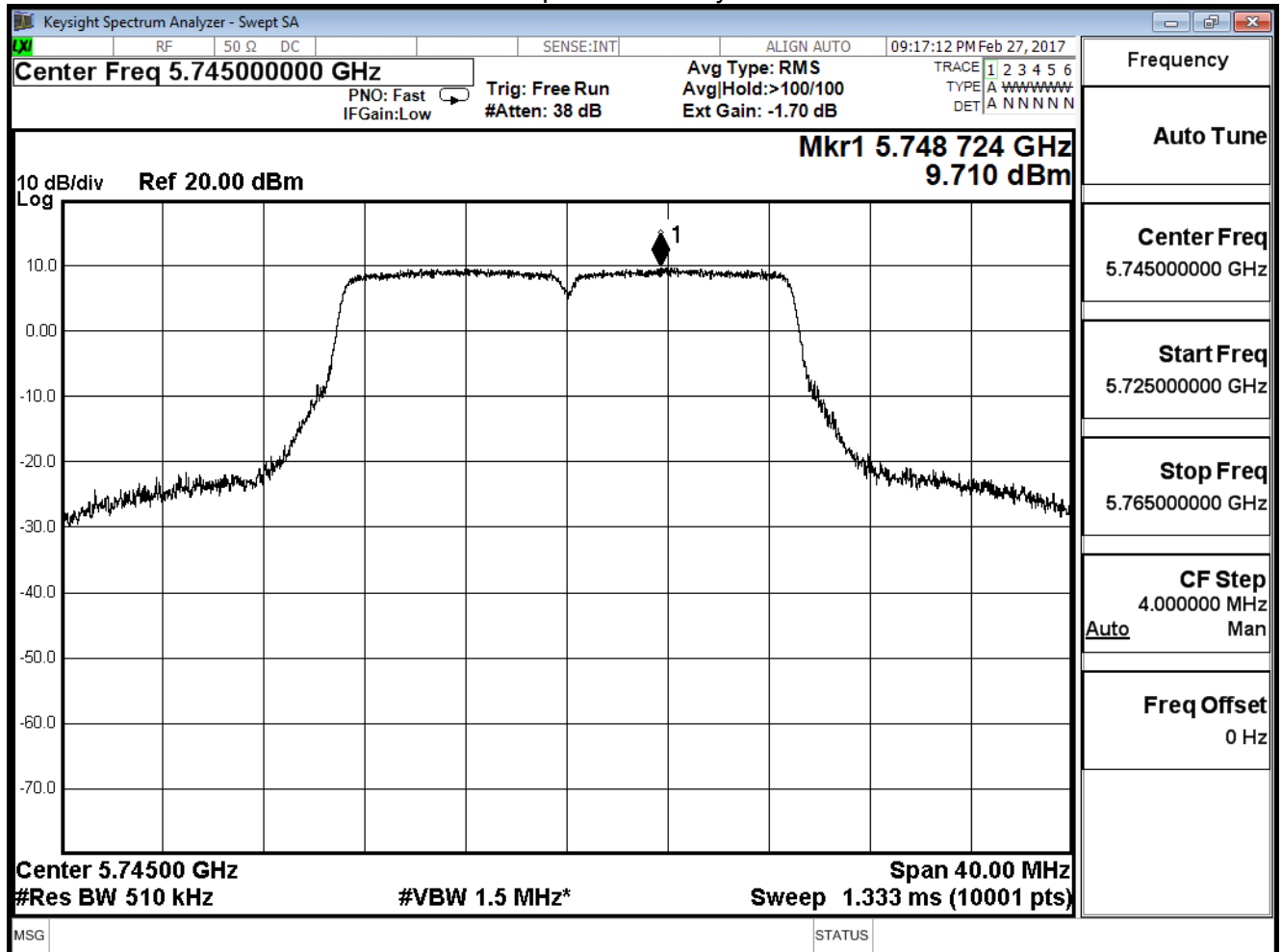
IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	9.710	≤29.38	Pass
157	5785	10.214	≤29.38	Pass
165	5825	10.377	≤29.38	Pass

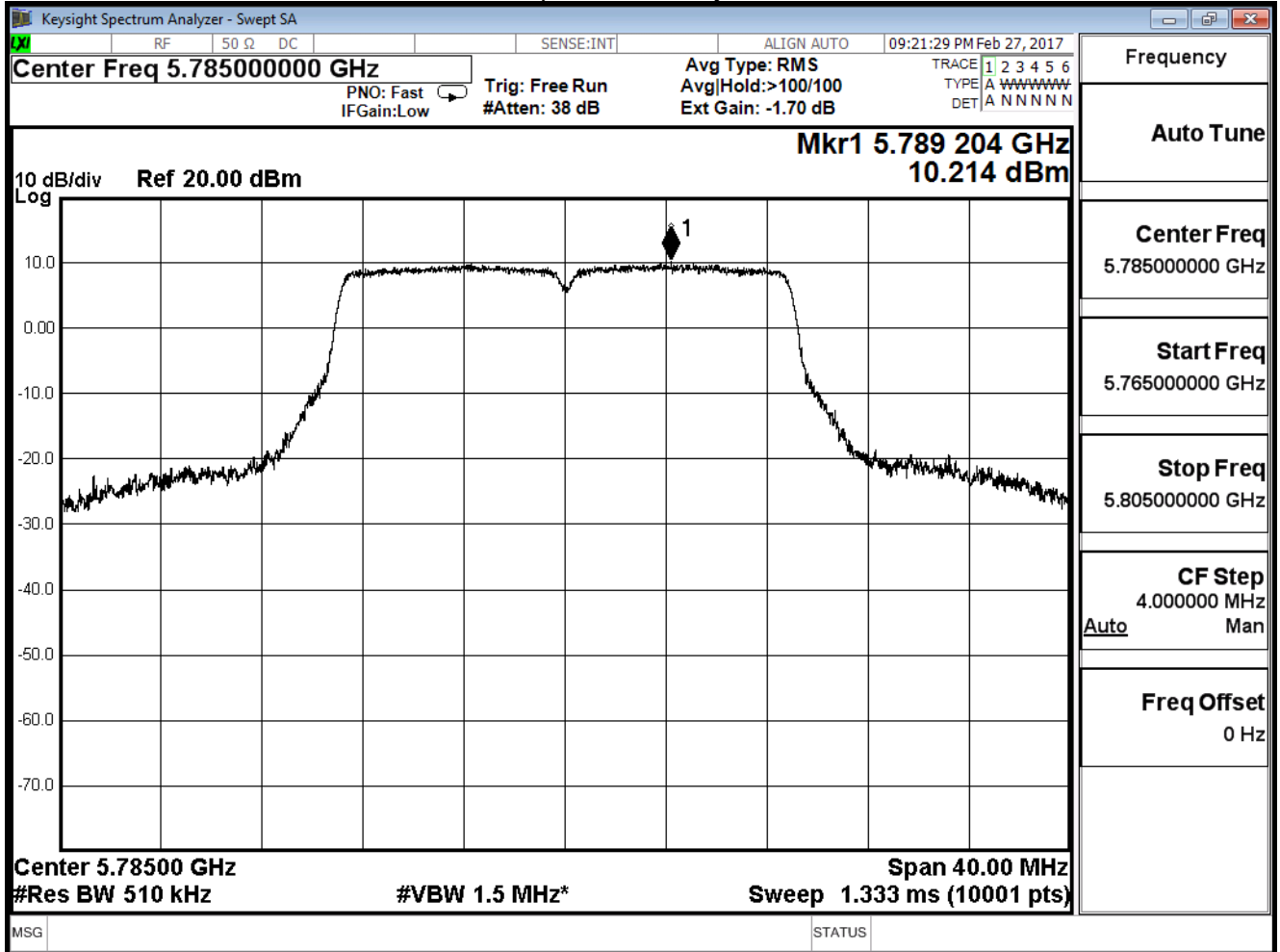
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

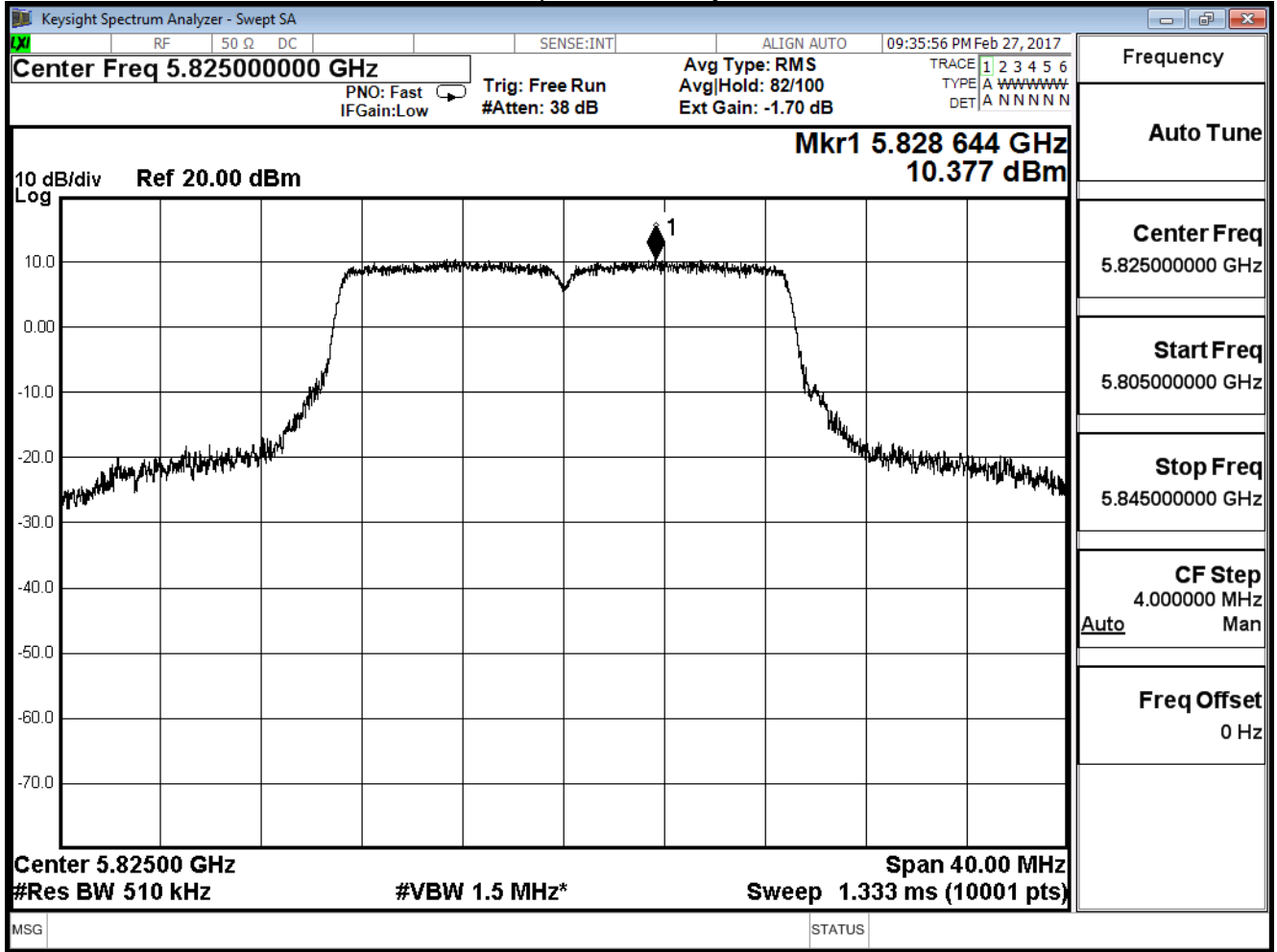
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



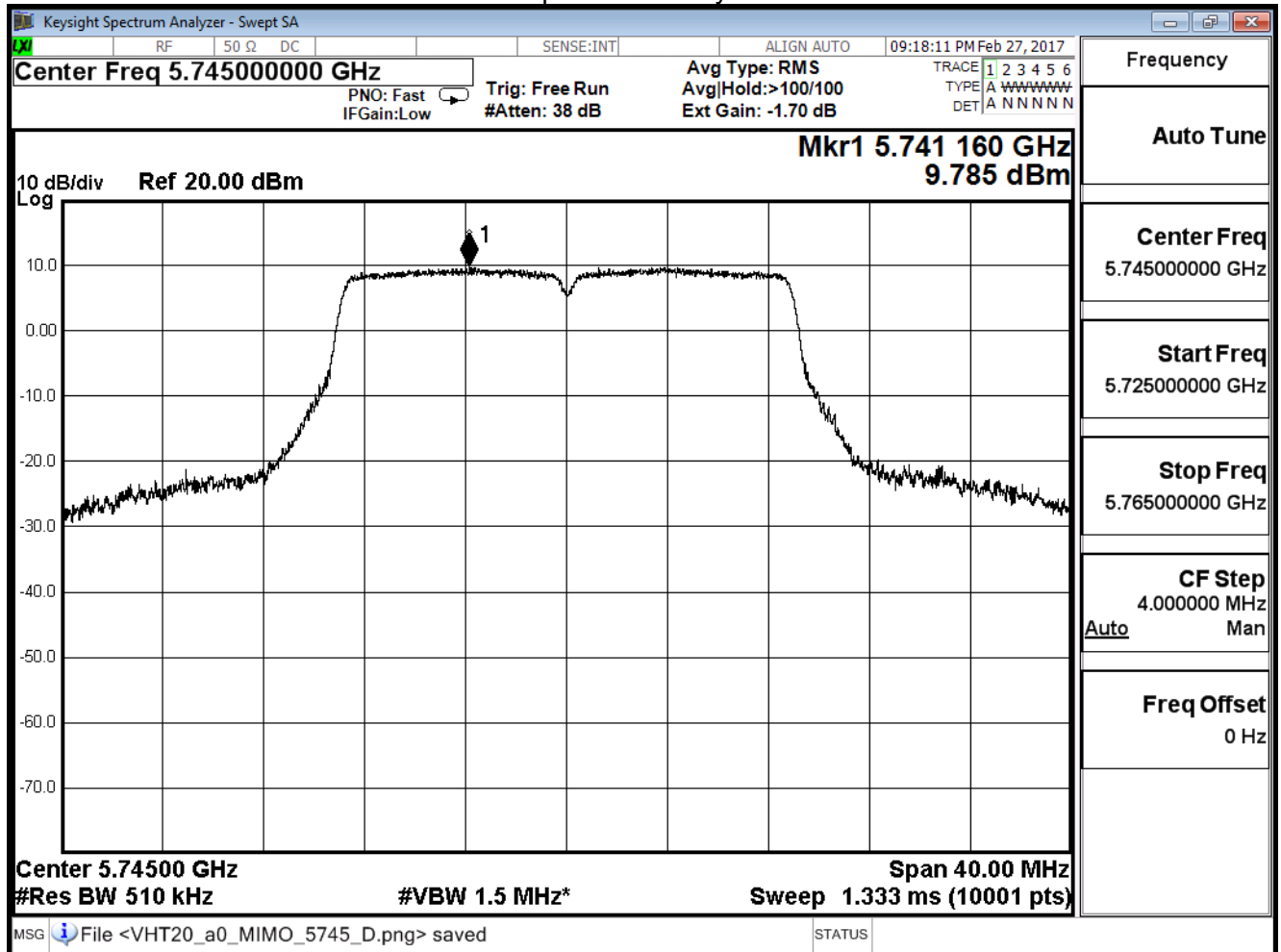
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	9.785	≤29.38	Pass
157	5785	10.153	≤29.38	Pass
165	5825	10.109	≤29.38	Pass

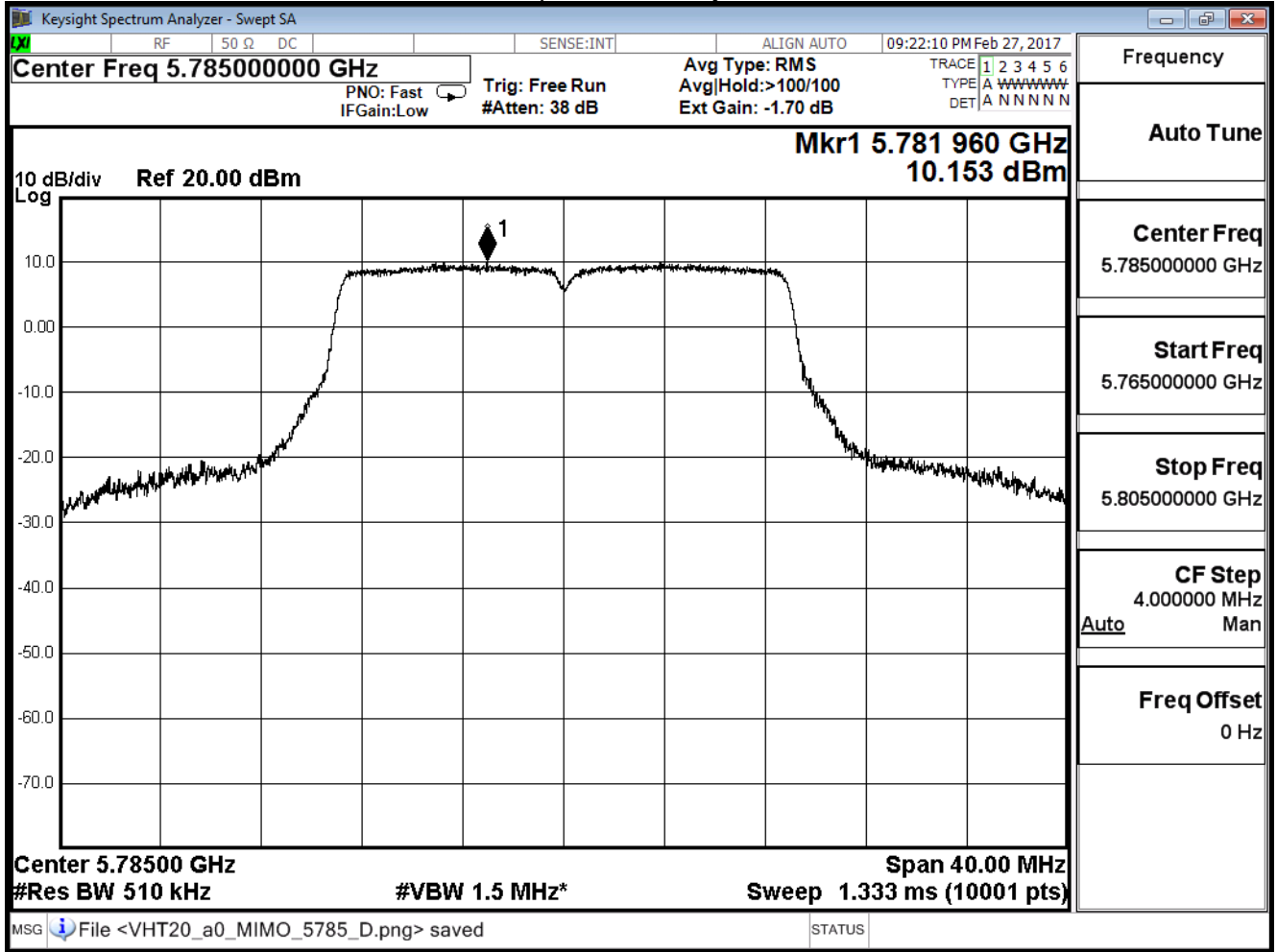
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

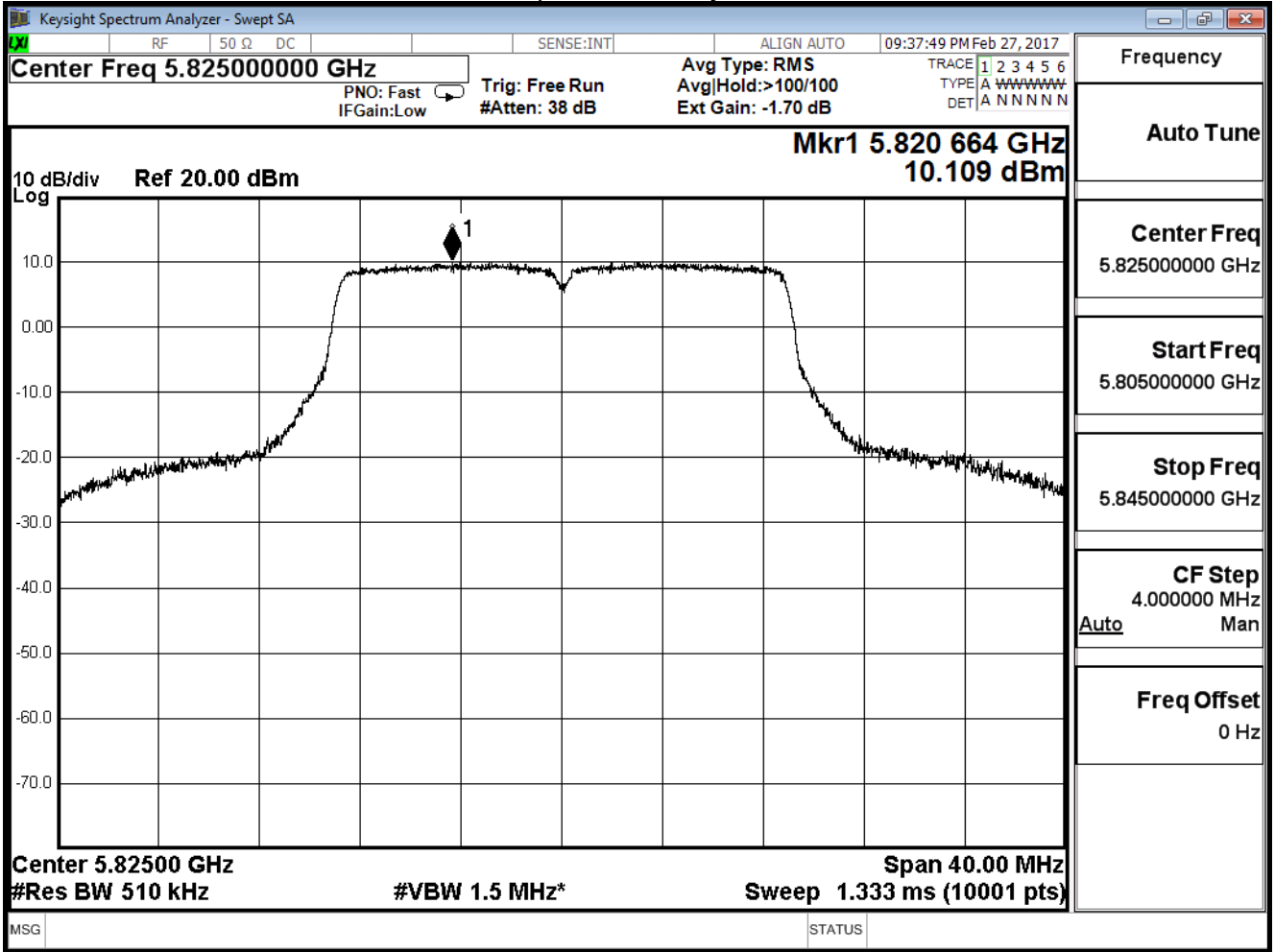
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



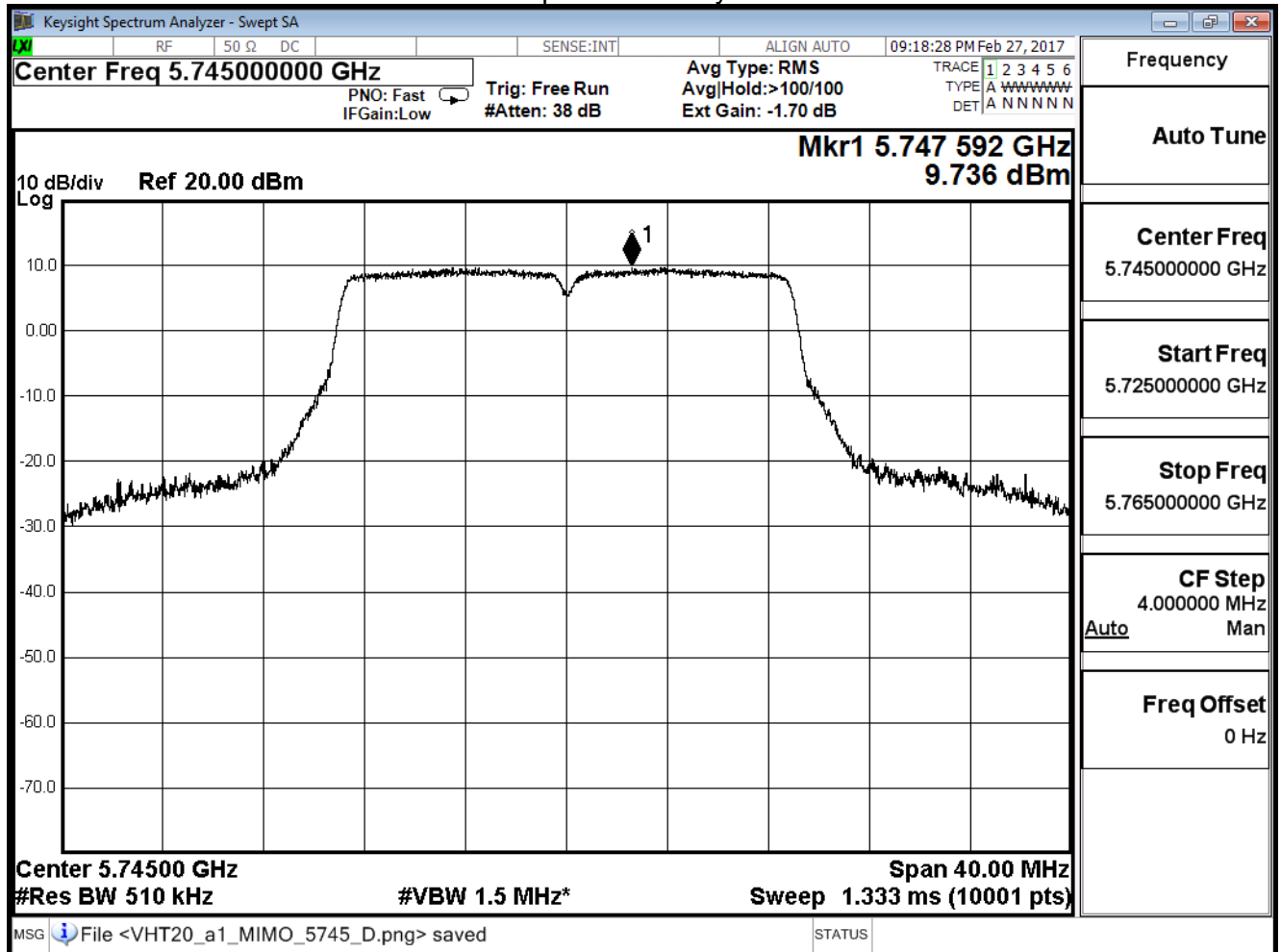
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	9.736	≤29.38	Pass
157	5785	10.182	≤29.38	Pass
165	5825	10.145	≤29.38	Pass

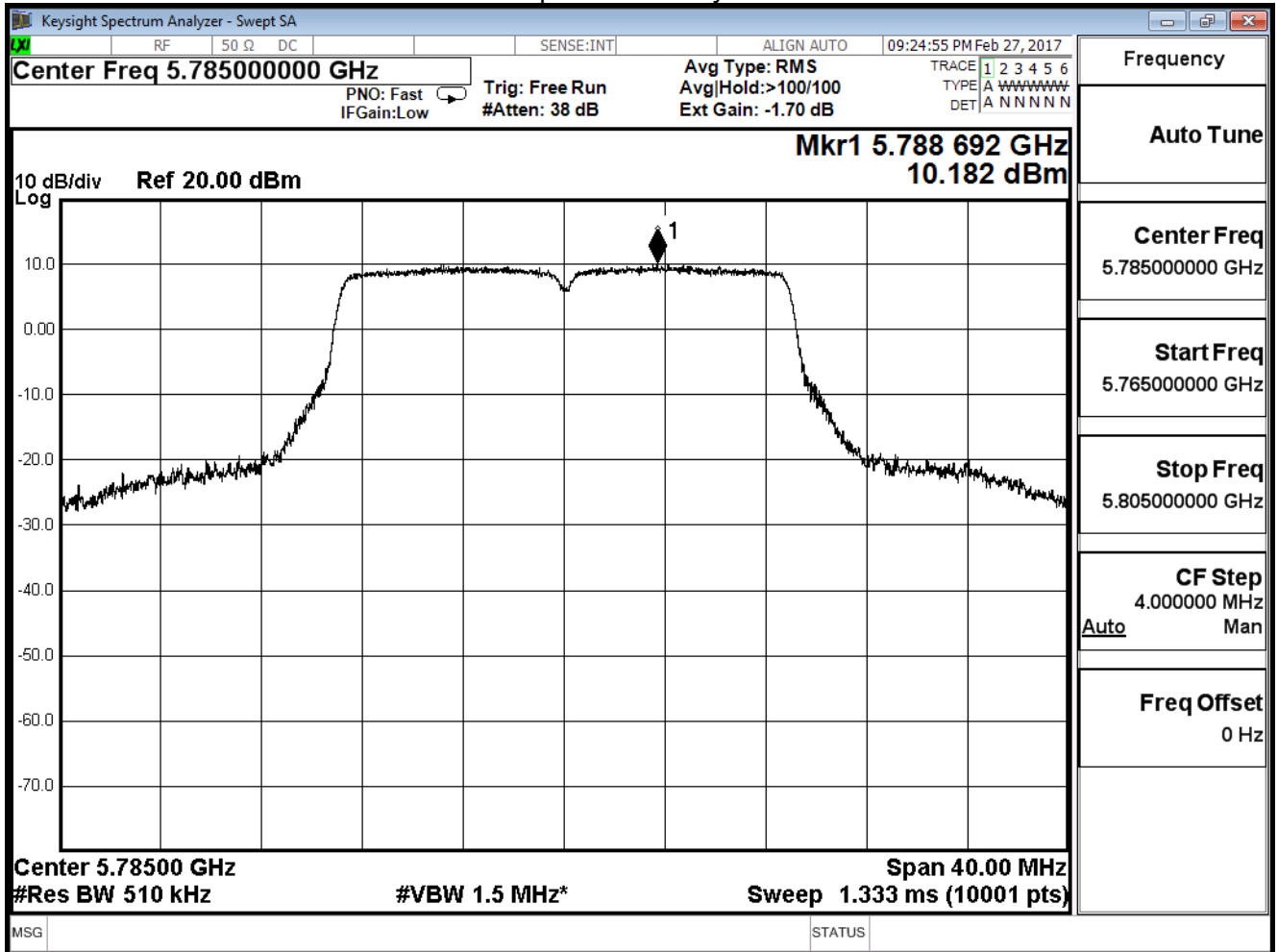
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

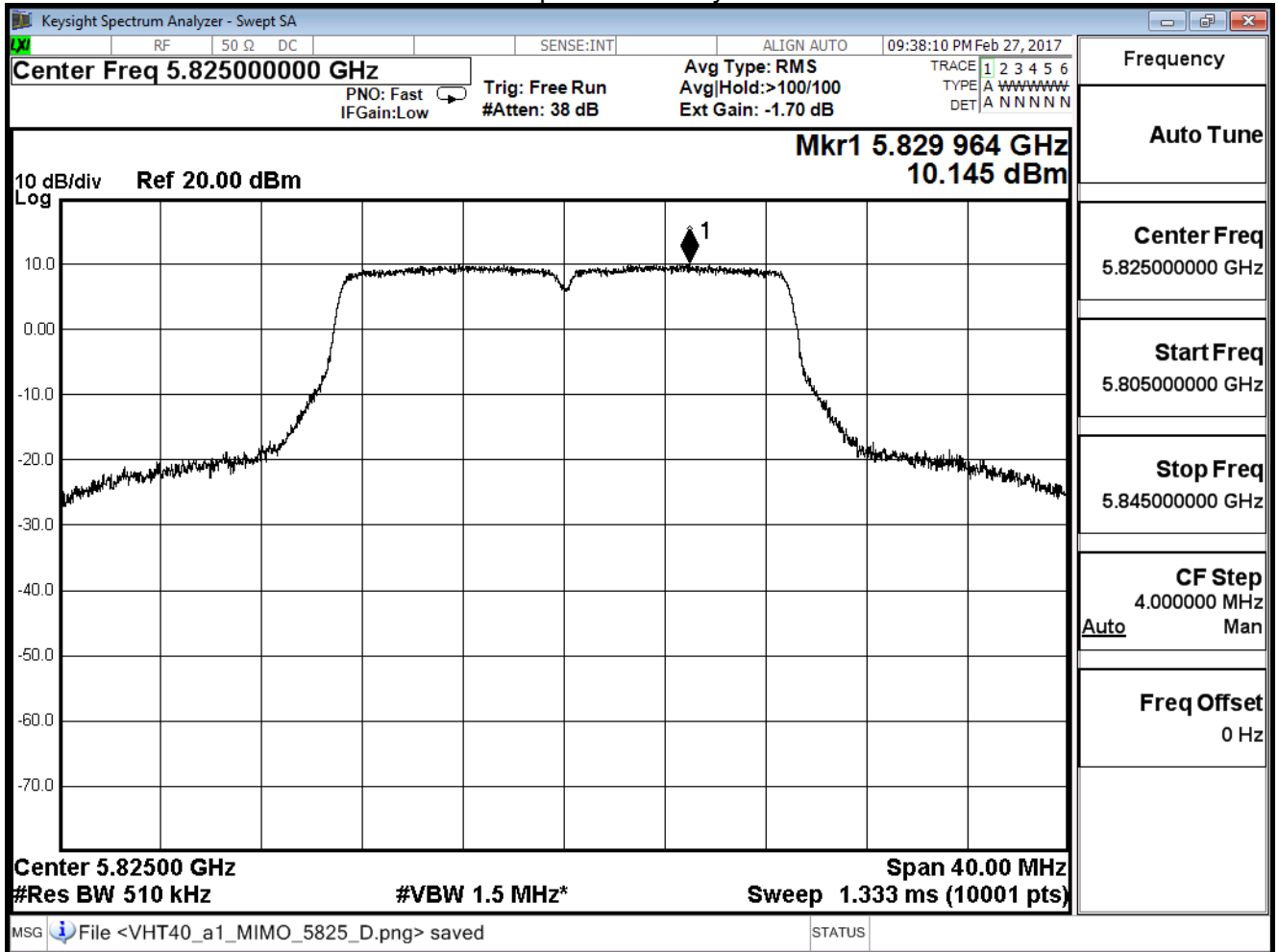
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



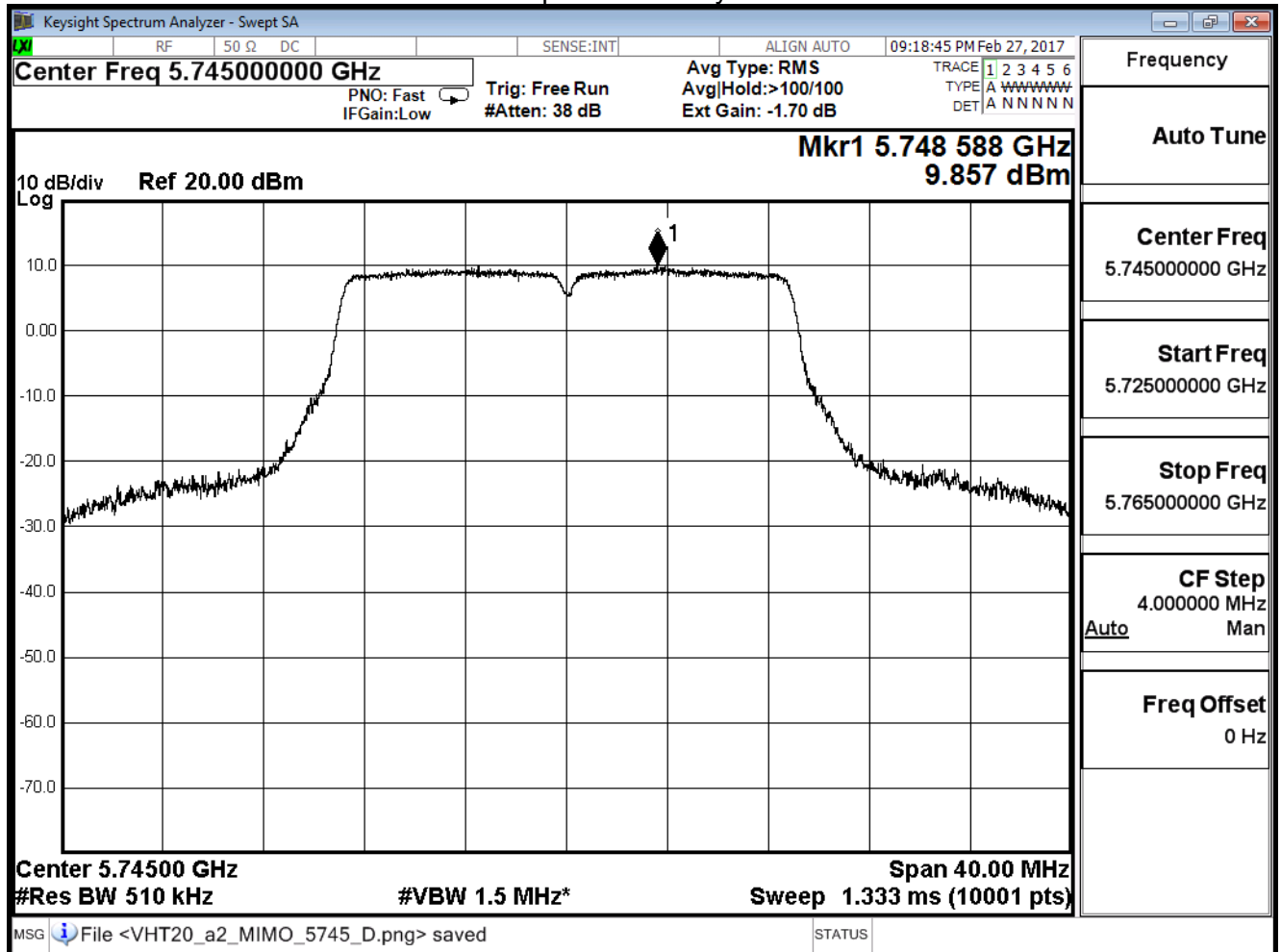
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	9.857	≤29.38	Pass
157	5785	10.027	≤29.38	Pass
165	5825	10.010	≤29.38	Pass

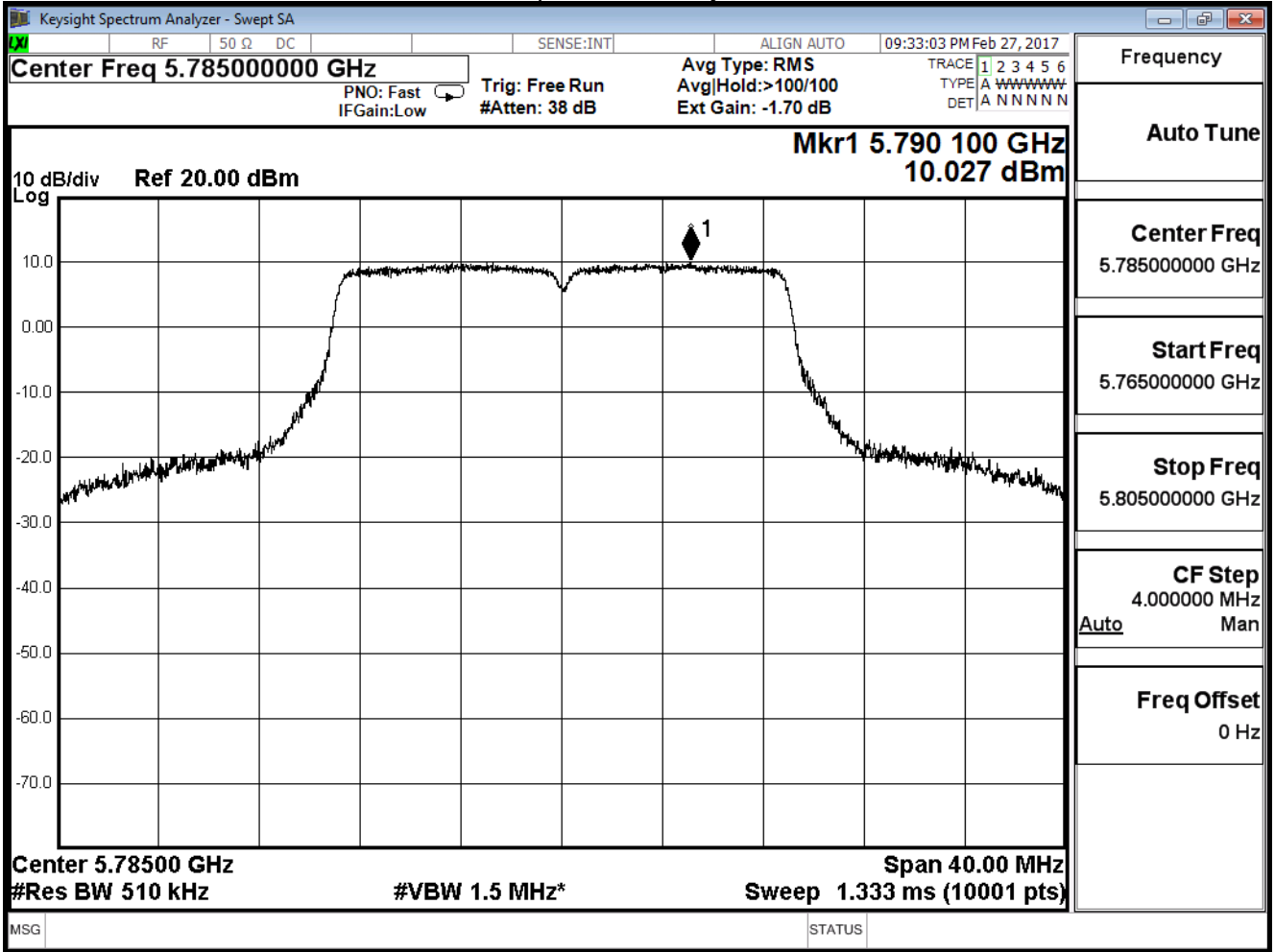
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

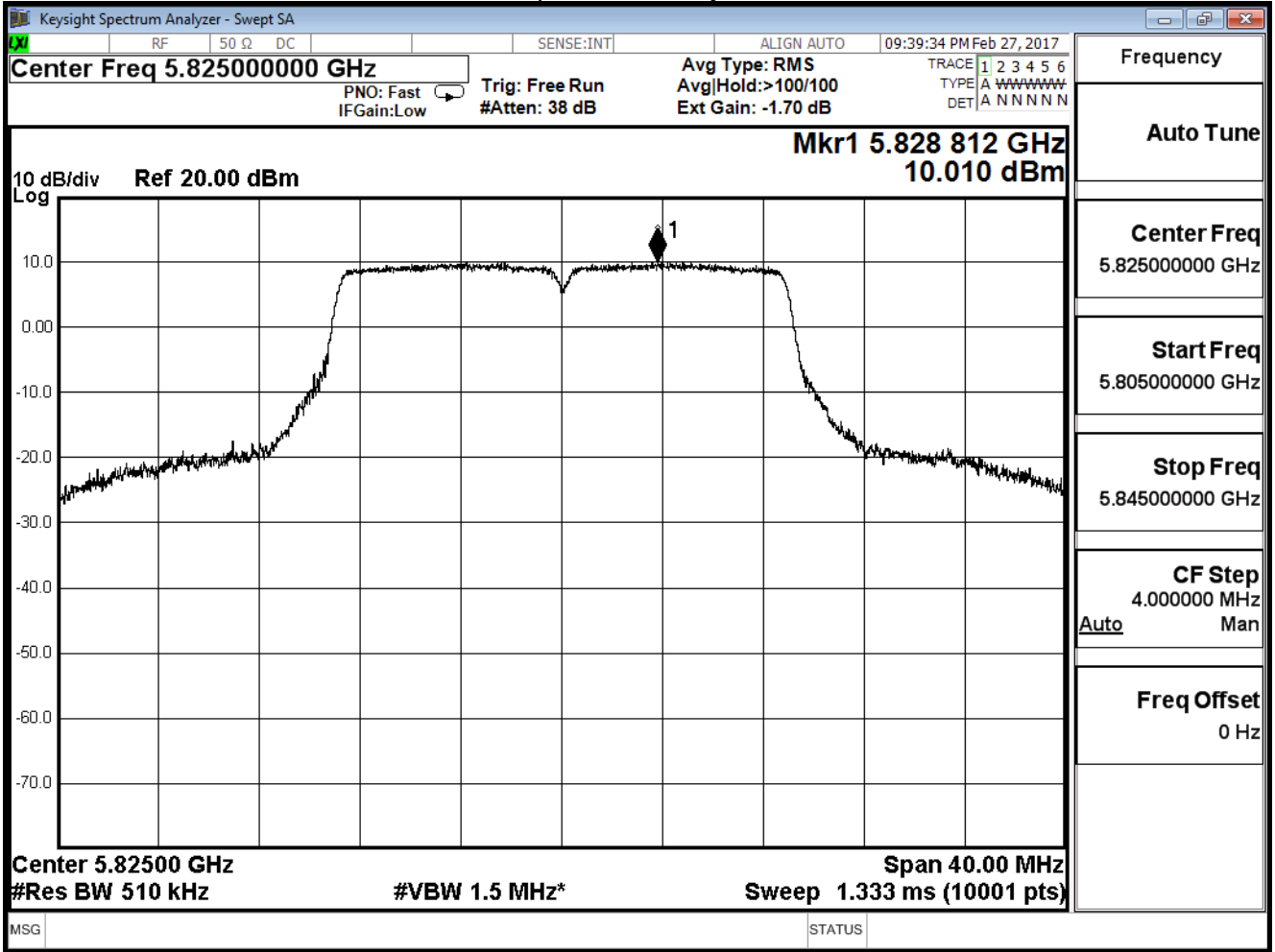
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	15.793	≤29.38	Pass
157	5785	16.165	≤29.38	Pass
165	5825	16.183	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

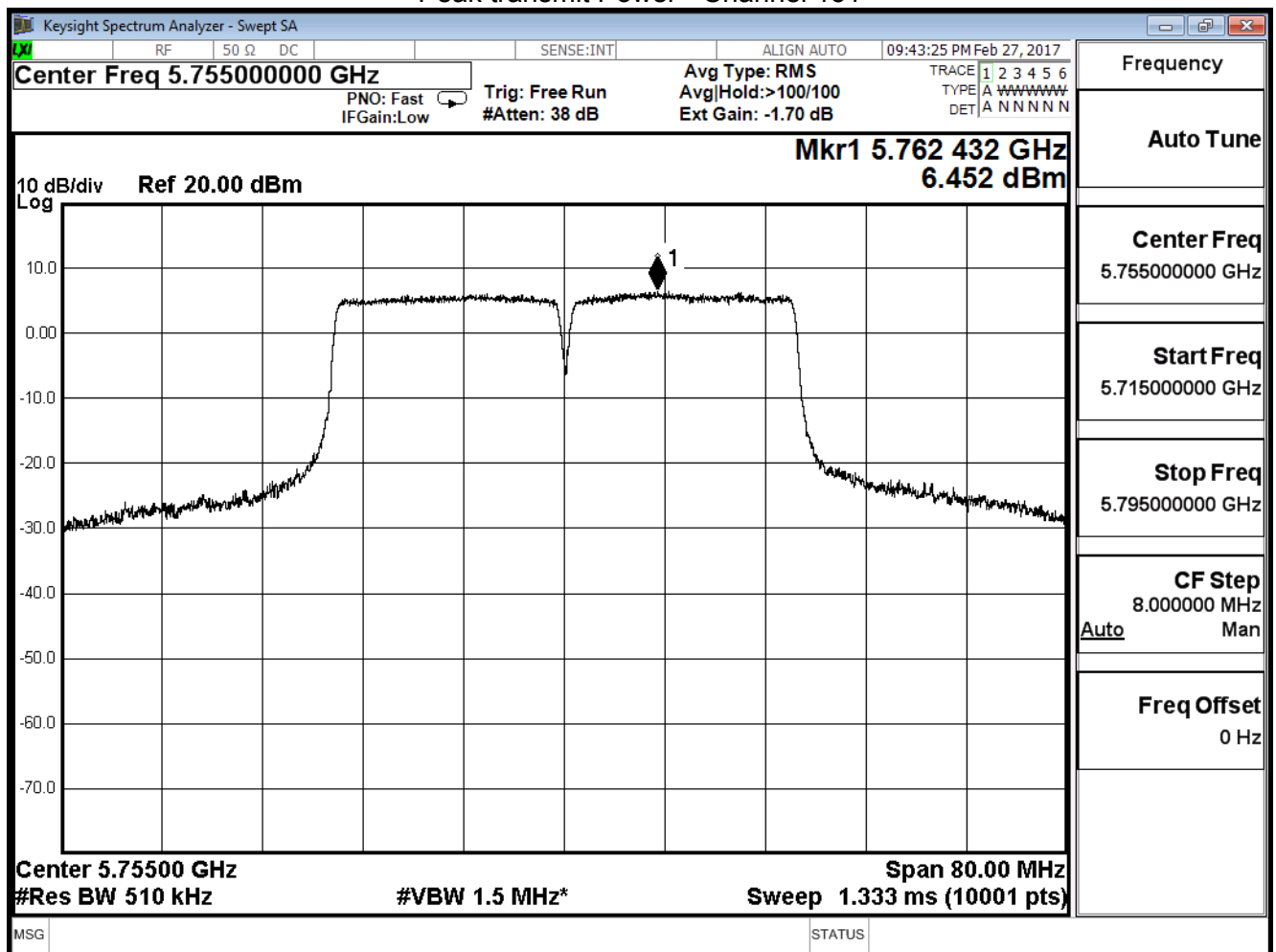
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.452	≤29.38	Pass
159	5795	7.075	≤29.38	Pass

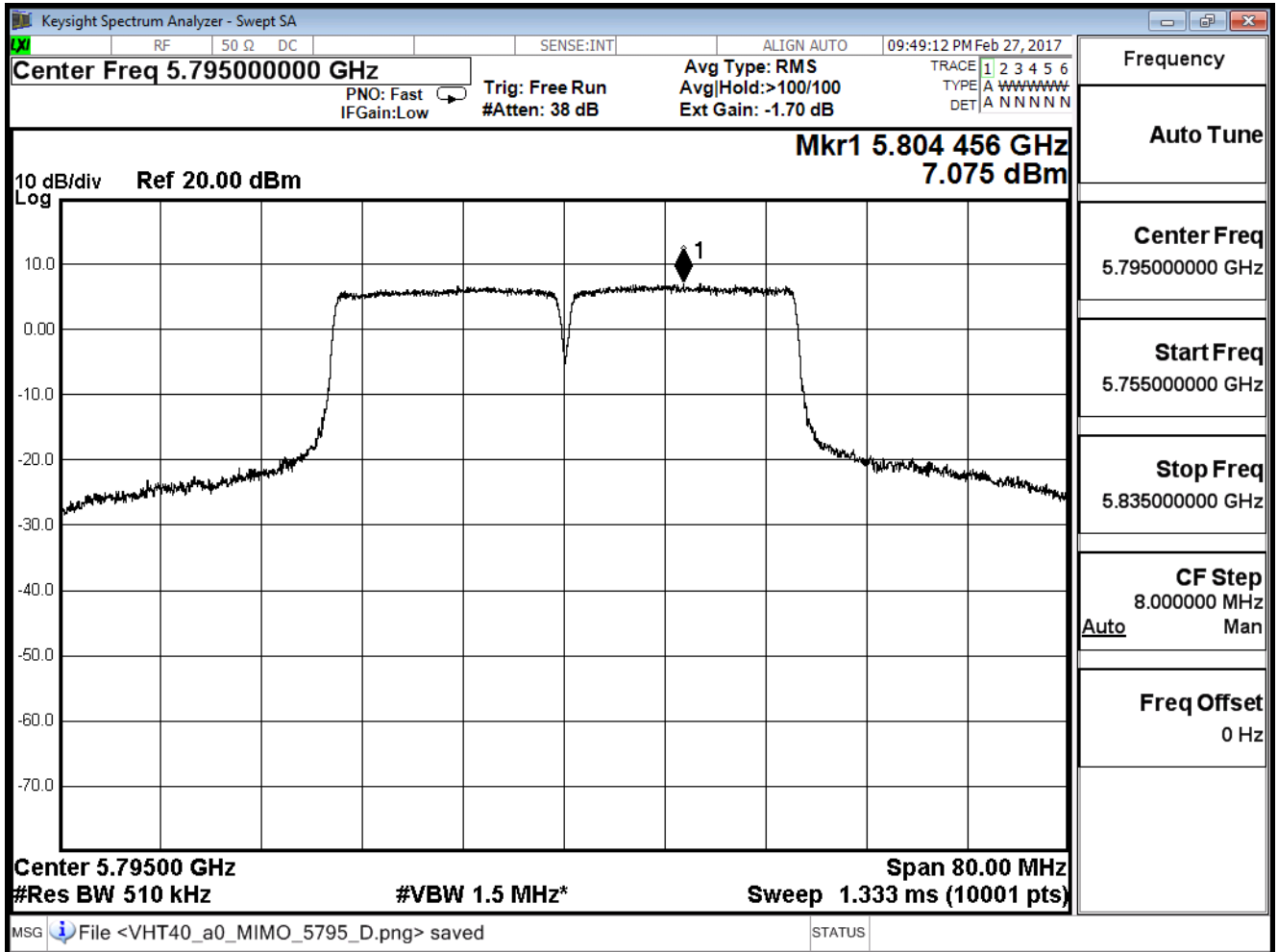
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

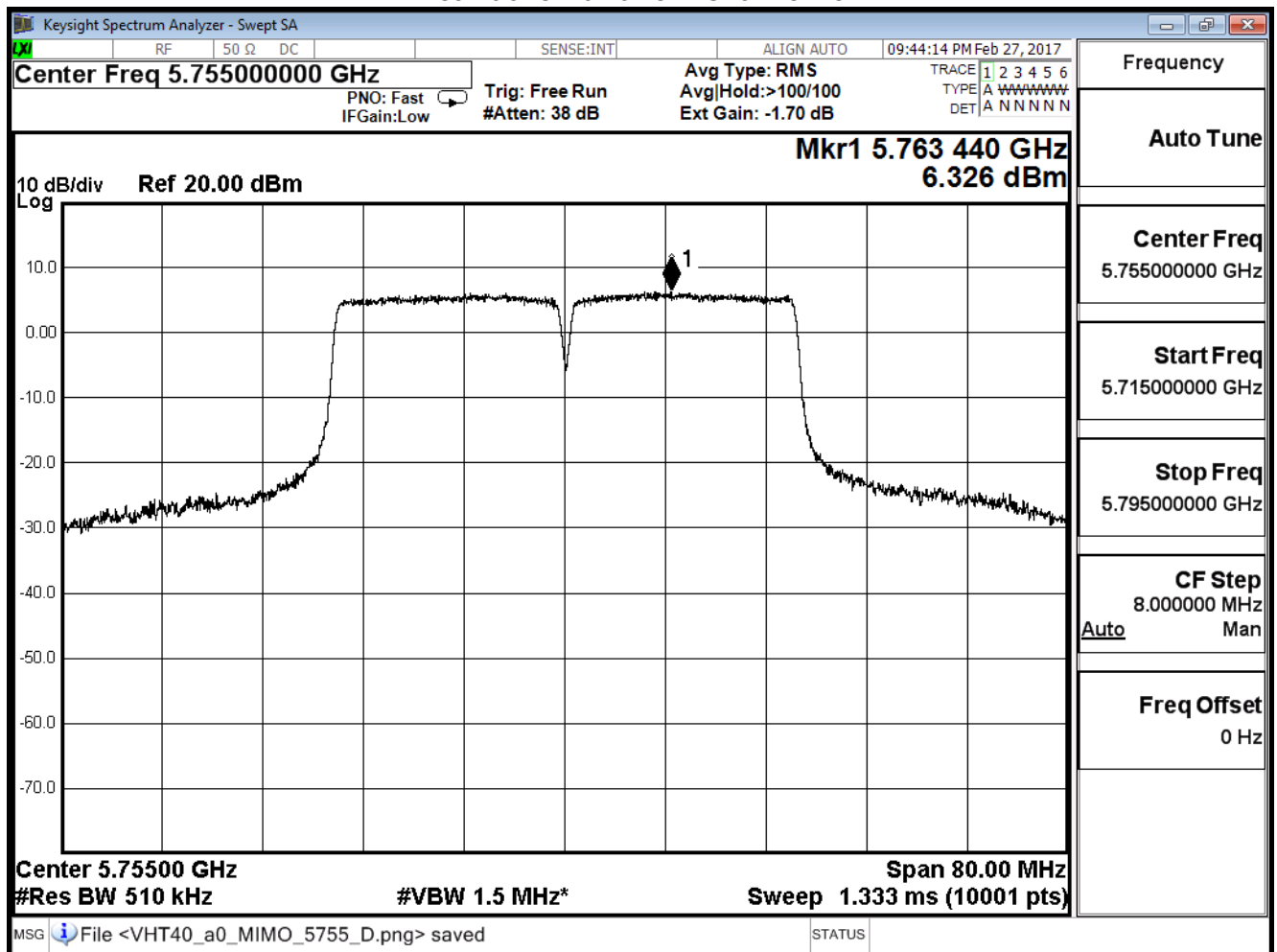
IEEE 802.11n(40MHz) (ANT 1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
151	5755	6.326	≤29.38	Pass
159	5795	7.118	≤29.38	Pass

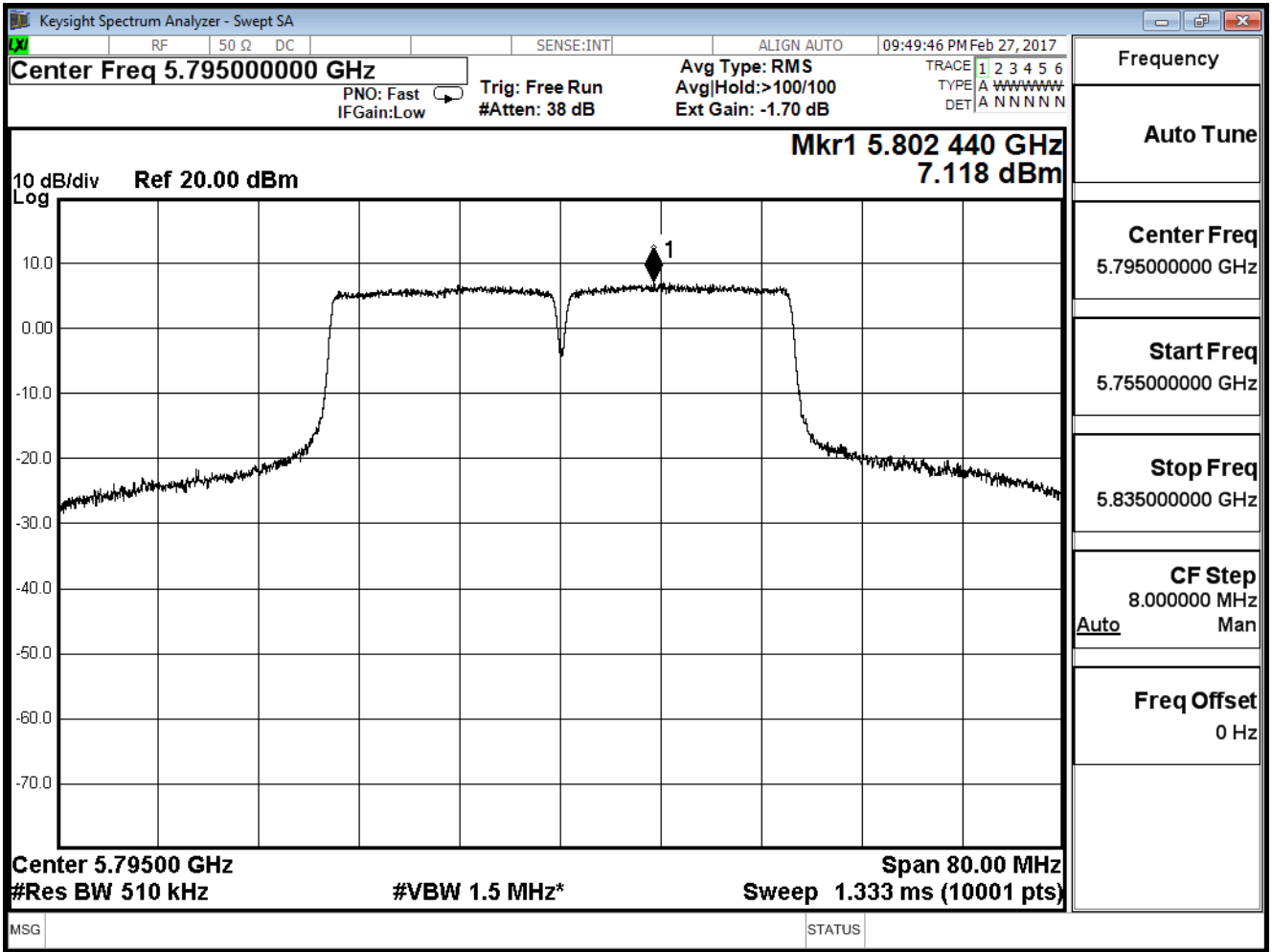
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

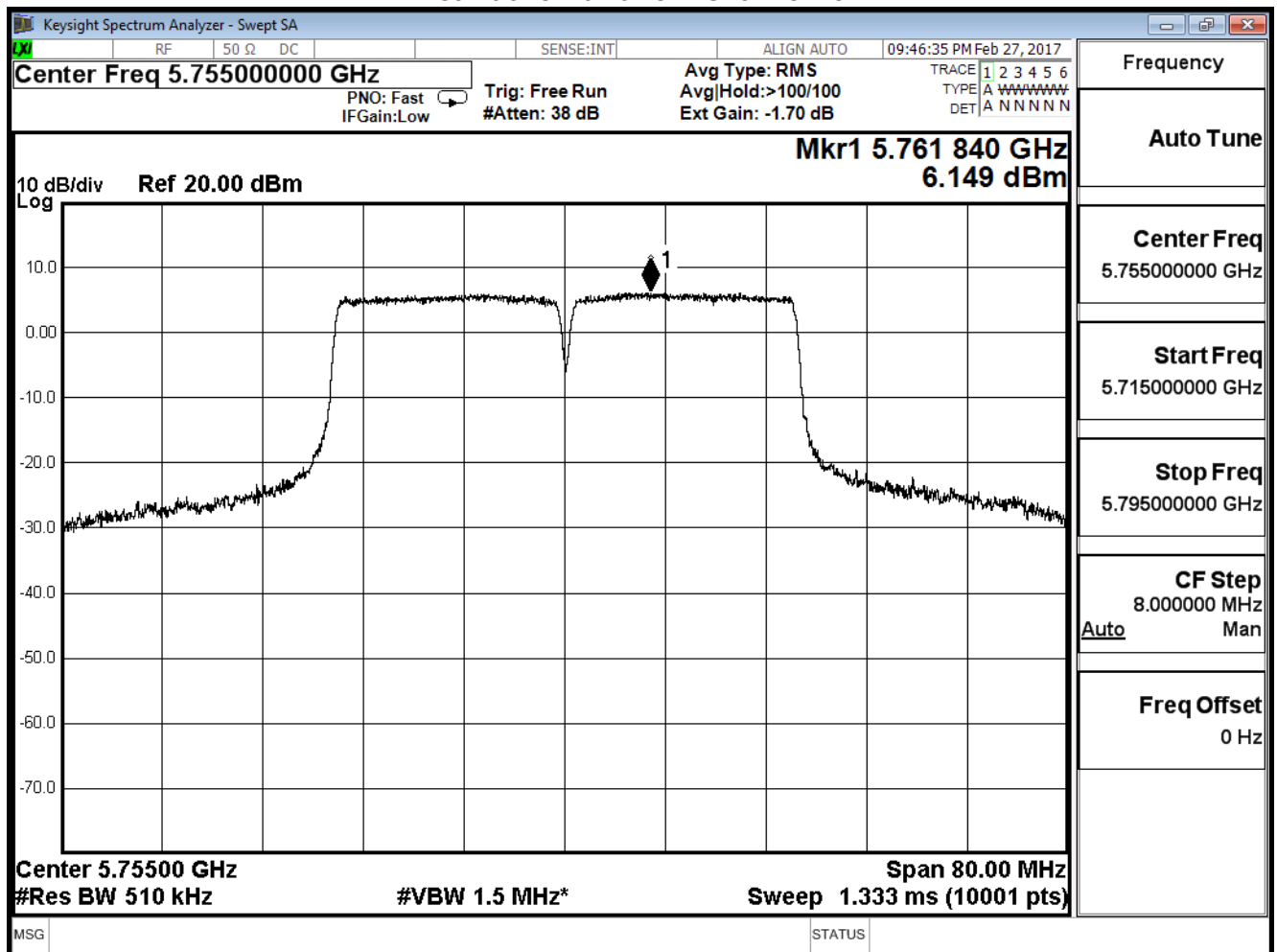
IEEE 802.11n(40MHz) (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.149	≤29.38	Pass
159	5795	7.588	≤29.38	Pass

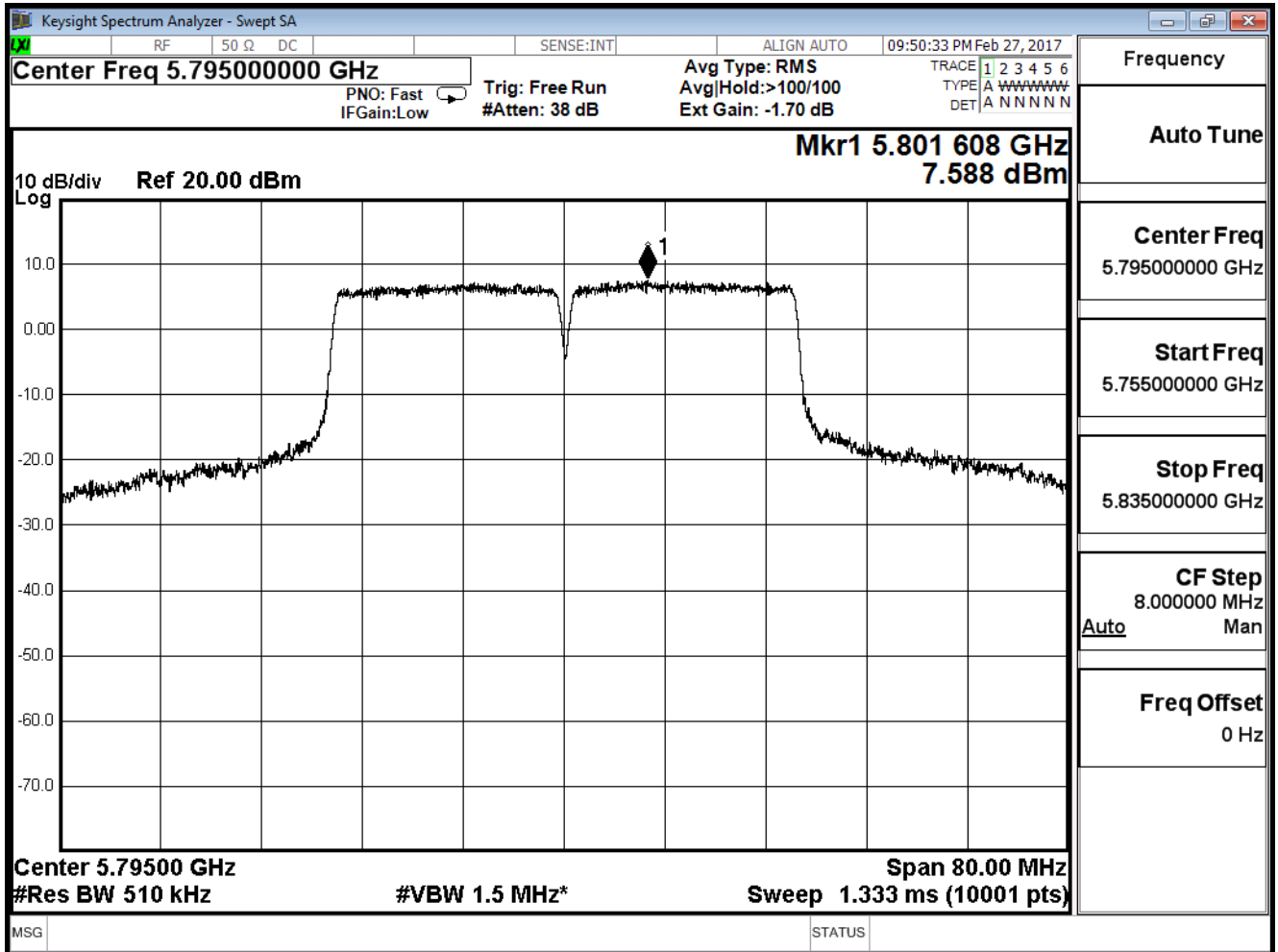
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

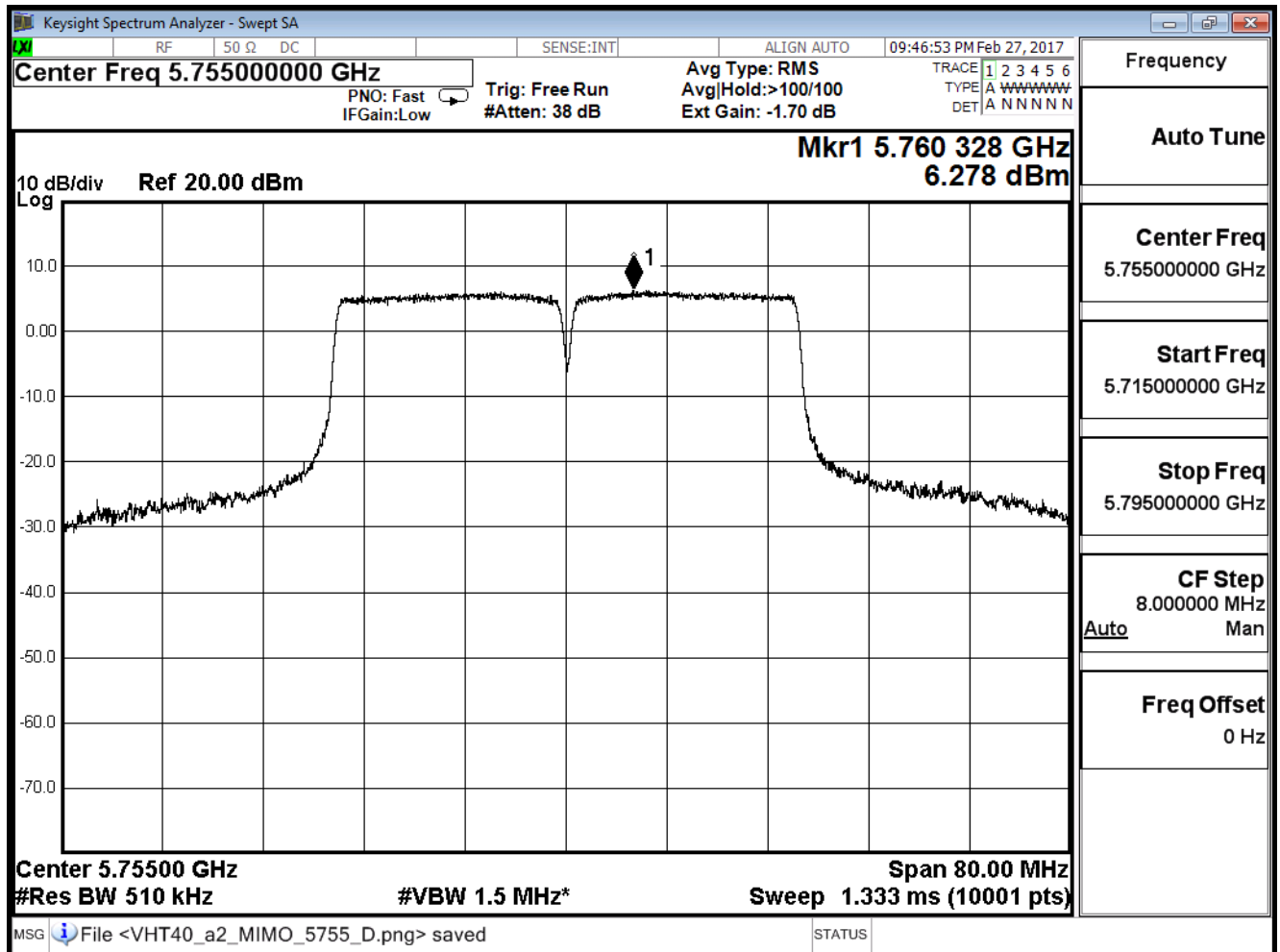
IEEE 802.11n(40MHz) (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.278	≤29.38	Pass
159	5795	7.190	≤29.38	Pass

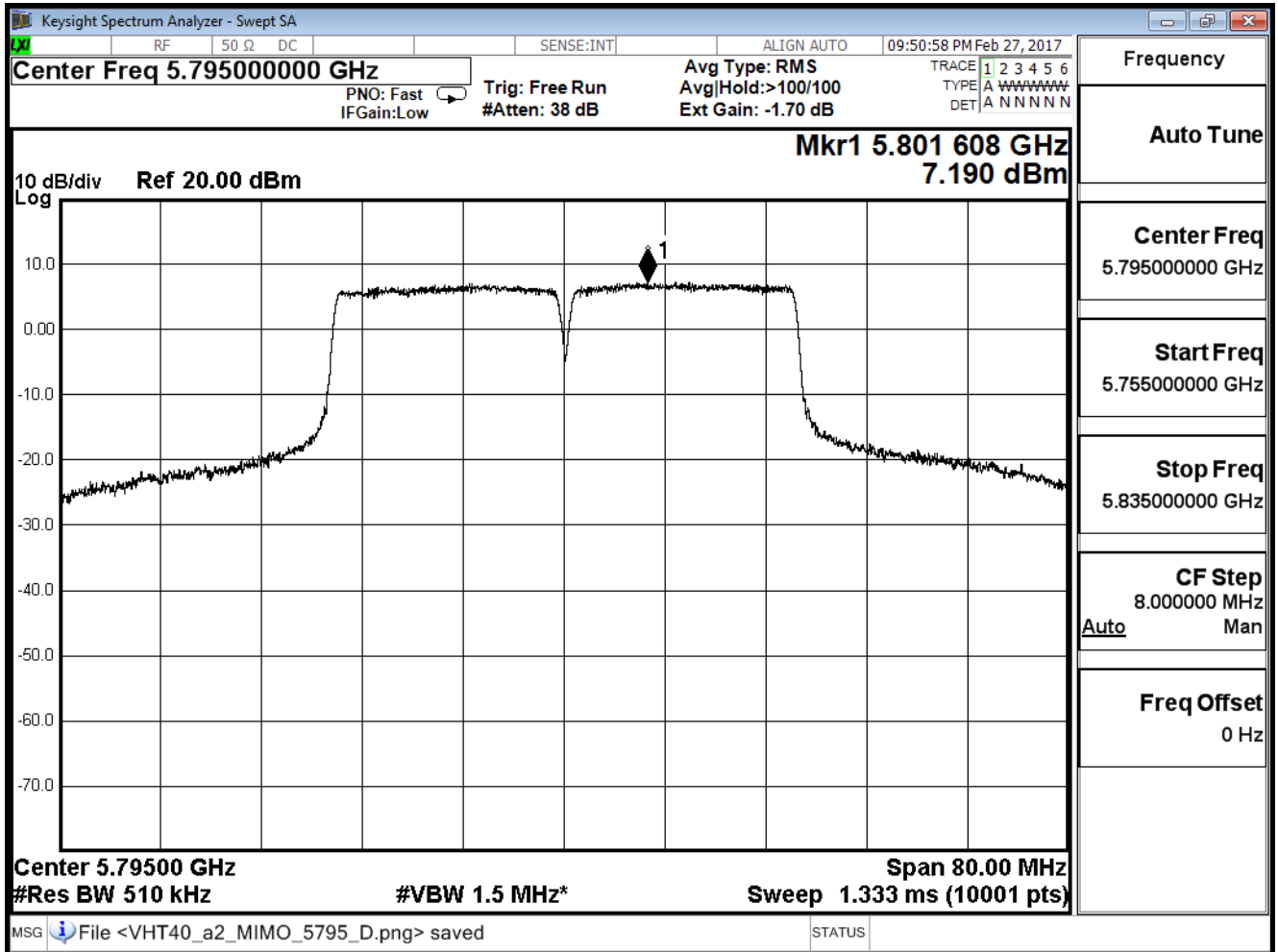
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	2017/02/27	2017/02/27

IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	12.323	≤29.38	Pass
159	5795	13.268	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

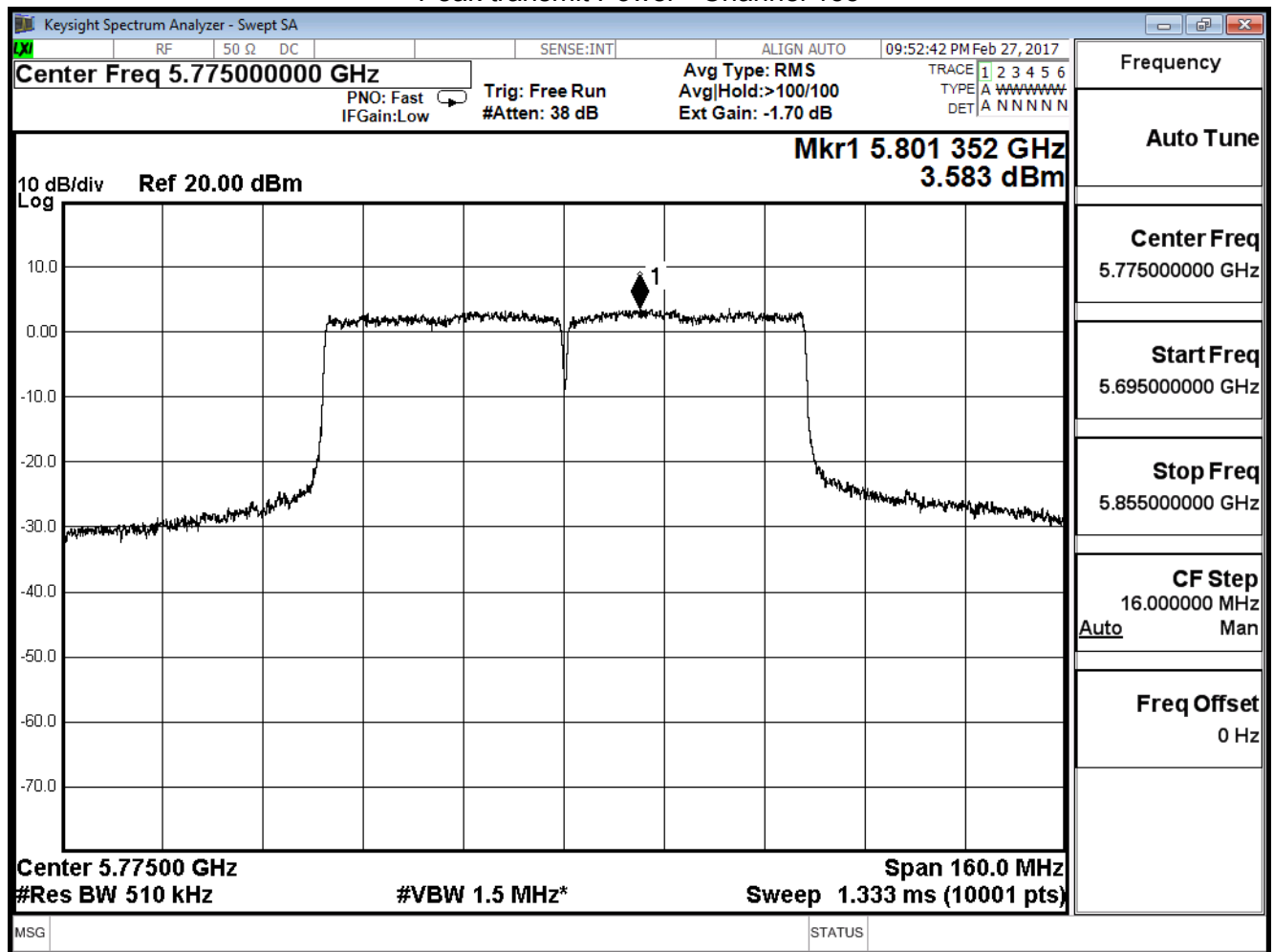
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.583	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



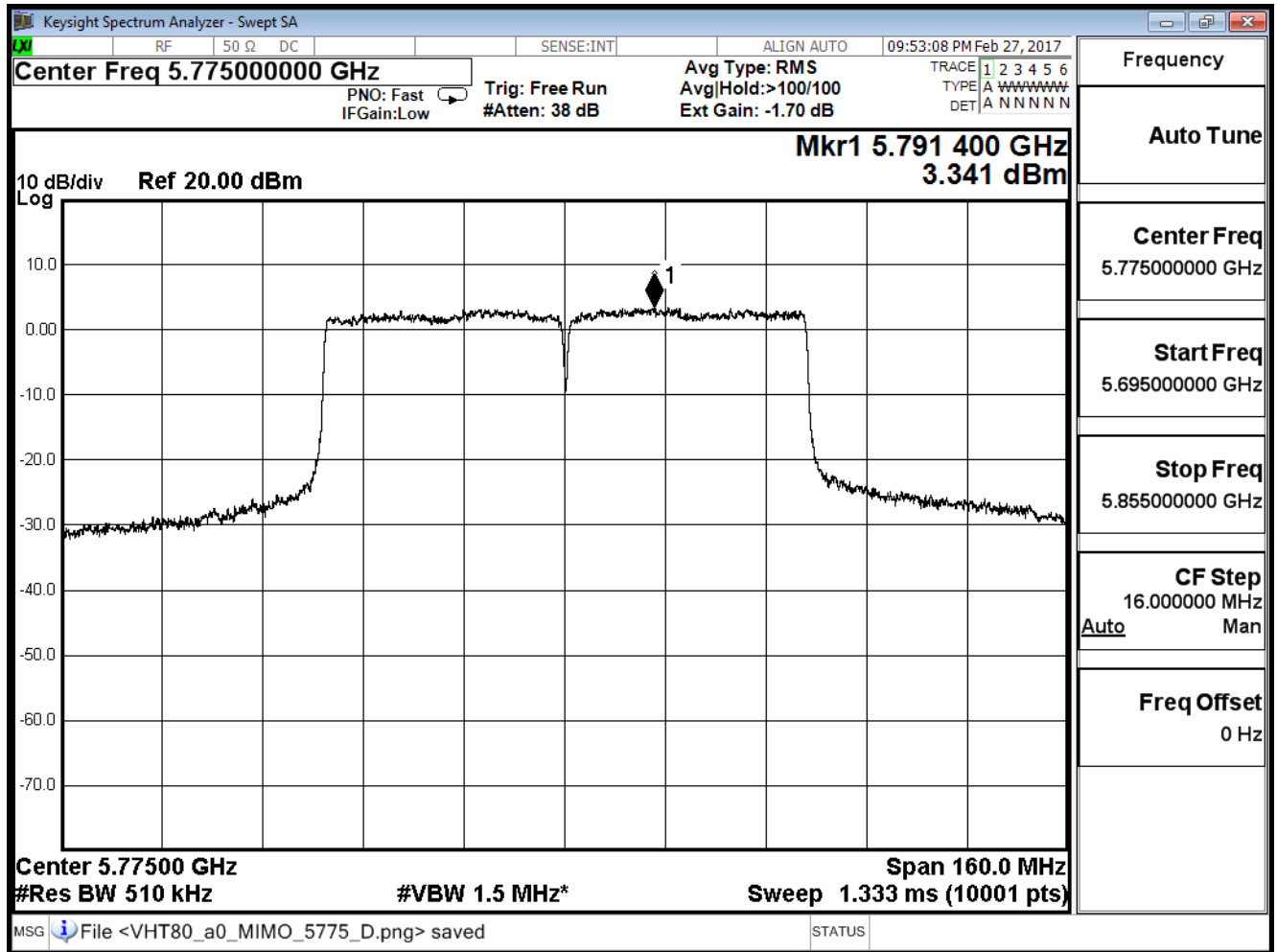
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
155	5775	3.341	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



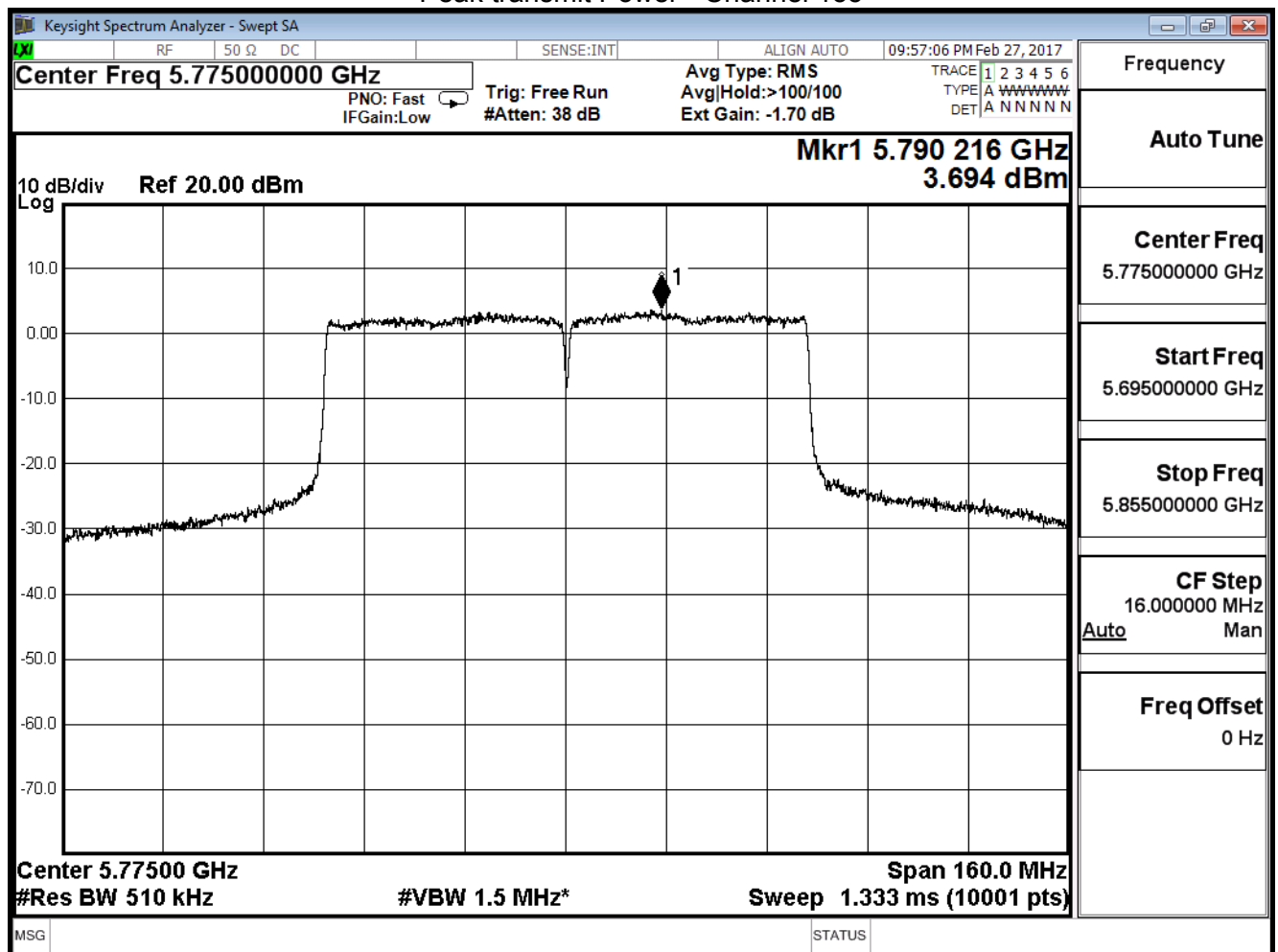
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.694	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



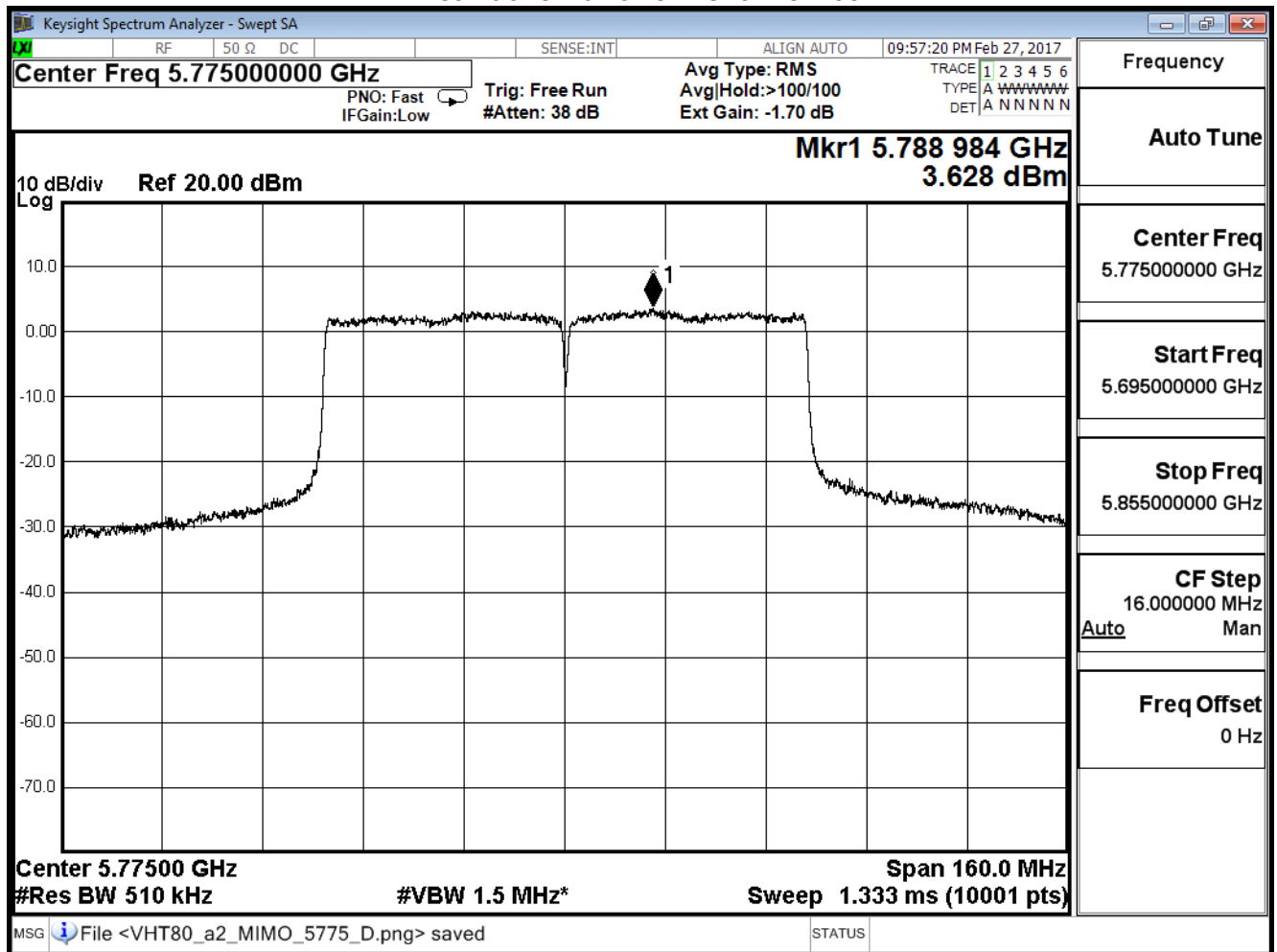
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_AD P: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.628	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_MIMO Mode (802.11 n20/40)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	9.584	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD P: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

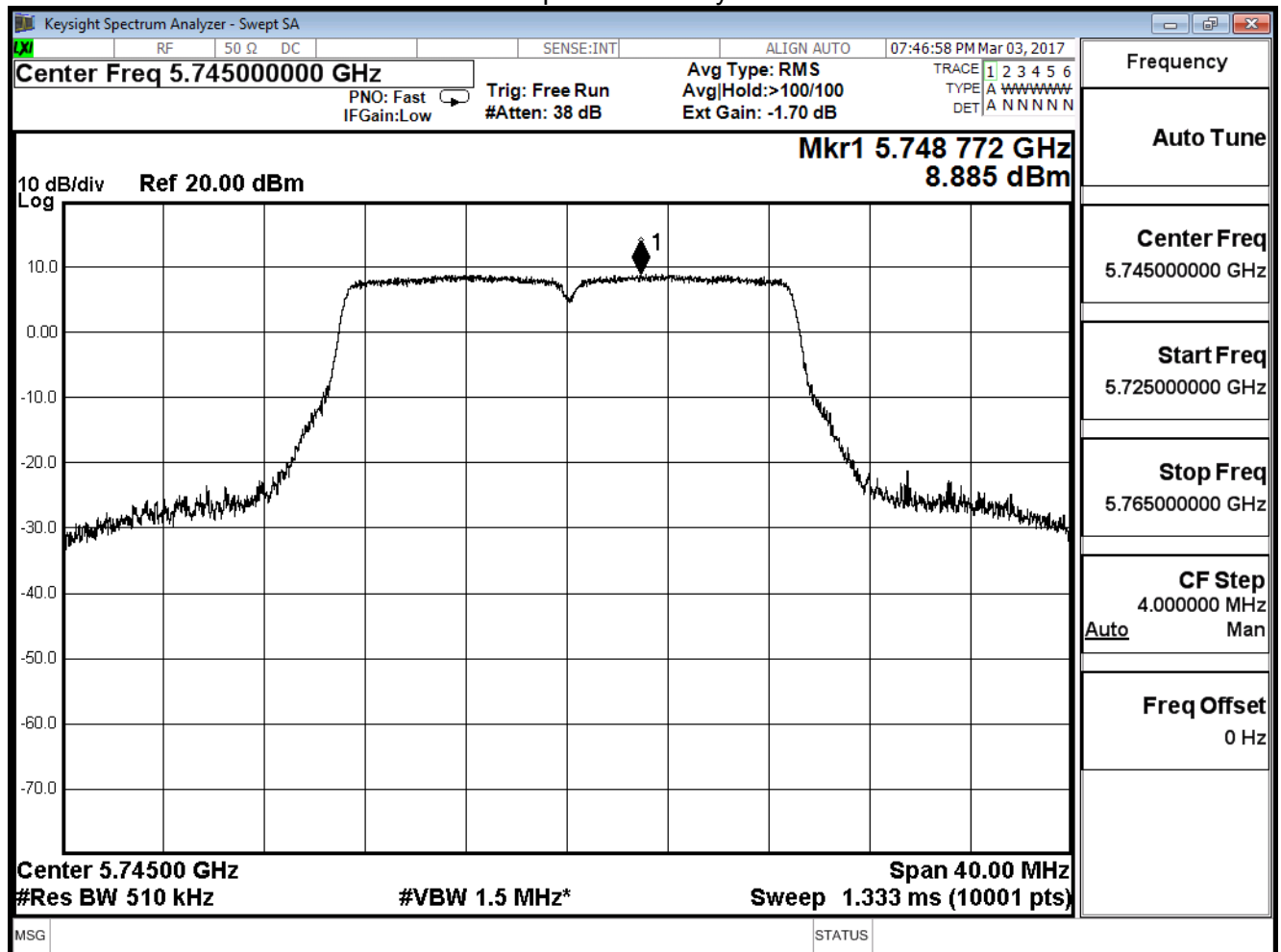
IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	8.885	≤29.38	Pass
157	5785	9.249	≤29.38	Pass
165	5825	9.074	≤29.38	Pass

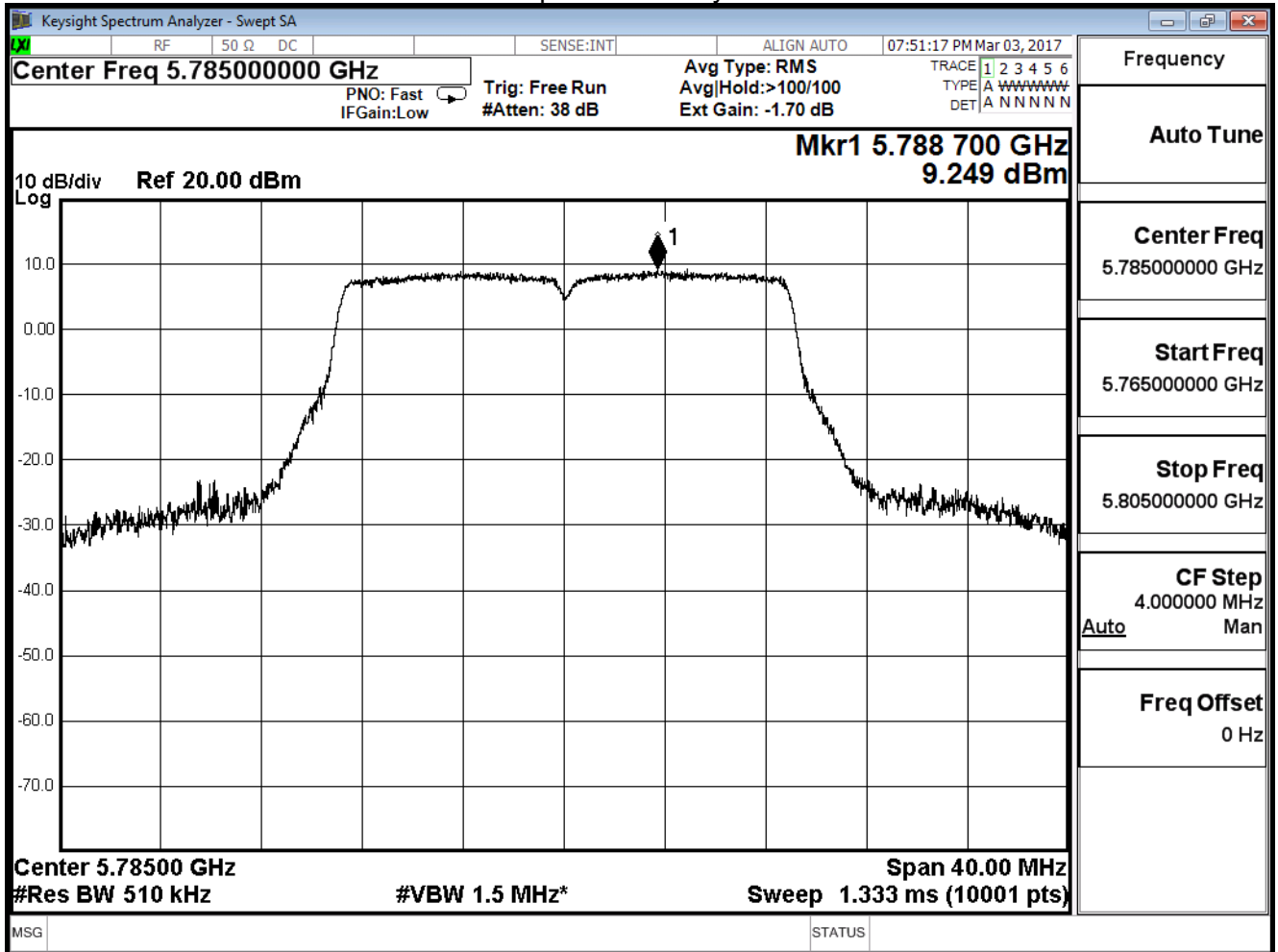
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

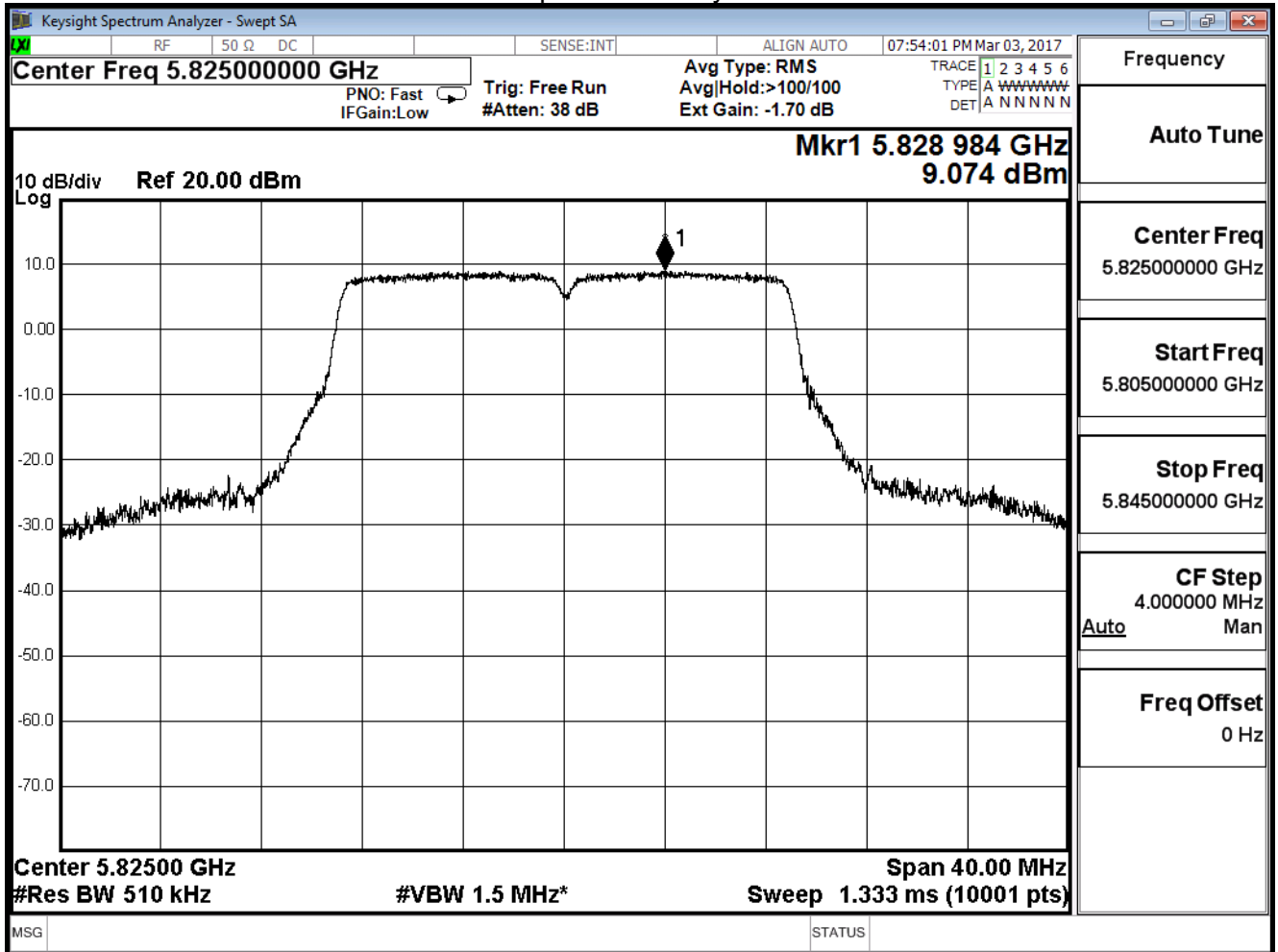
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



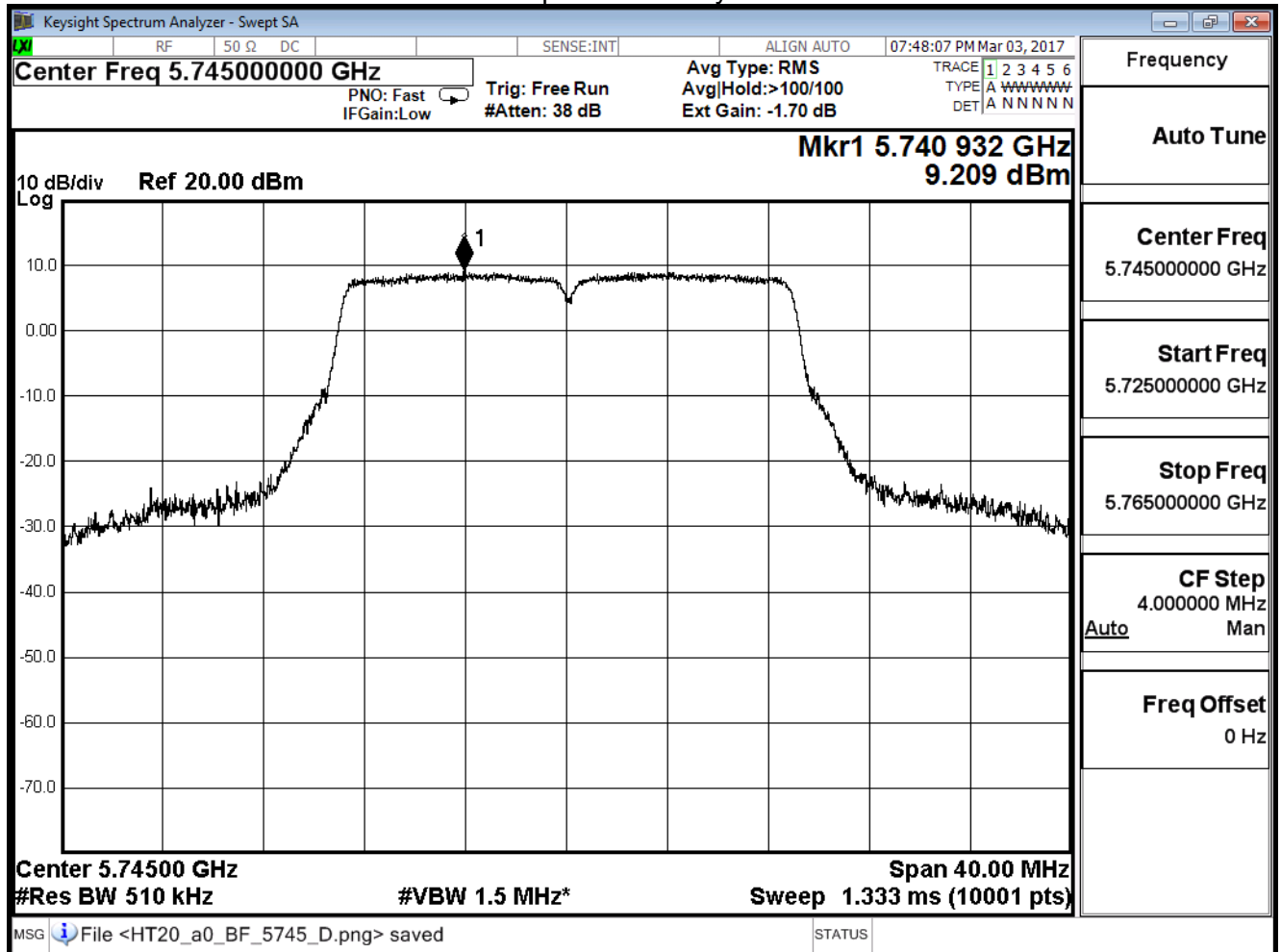
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	9.209	≤29.38	Pass
157	5785	9.075	≤29.38	Pass
165	5825	9.070	≤29.38	Pass

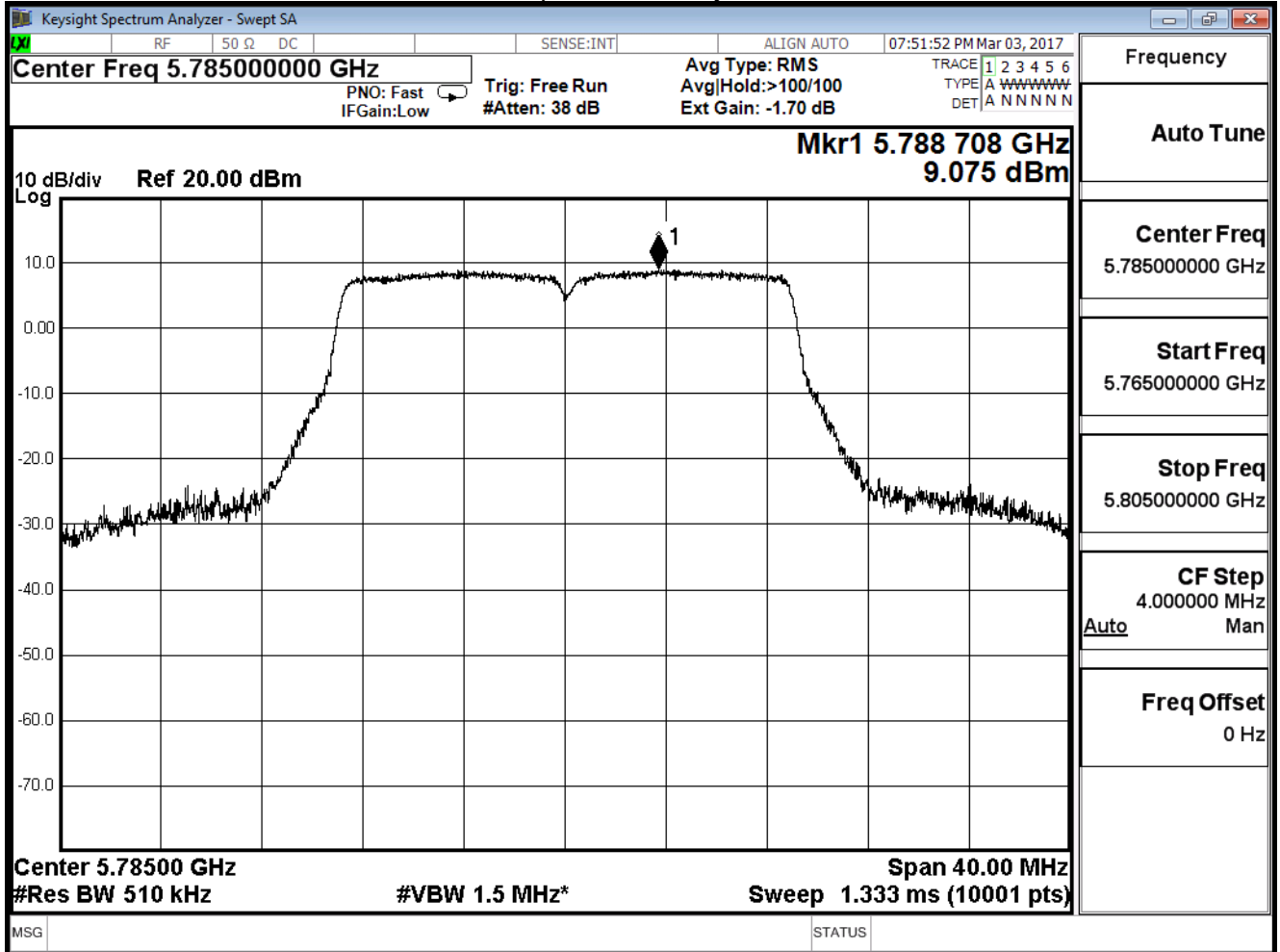
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

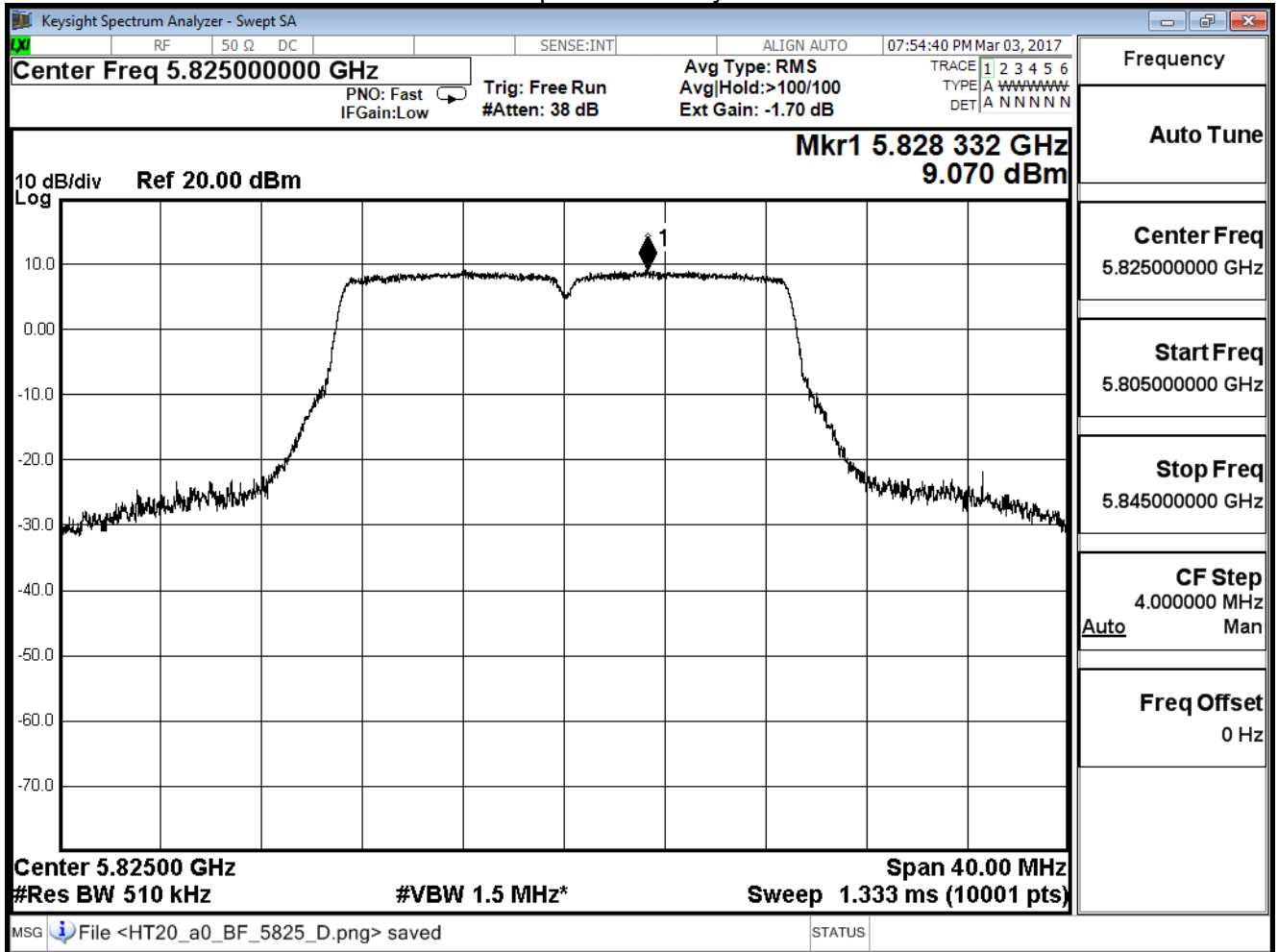
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



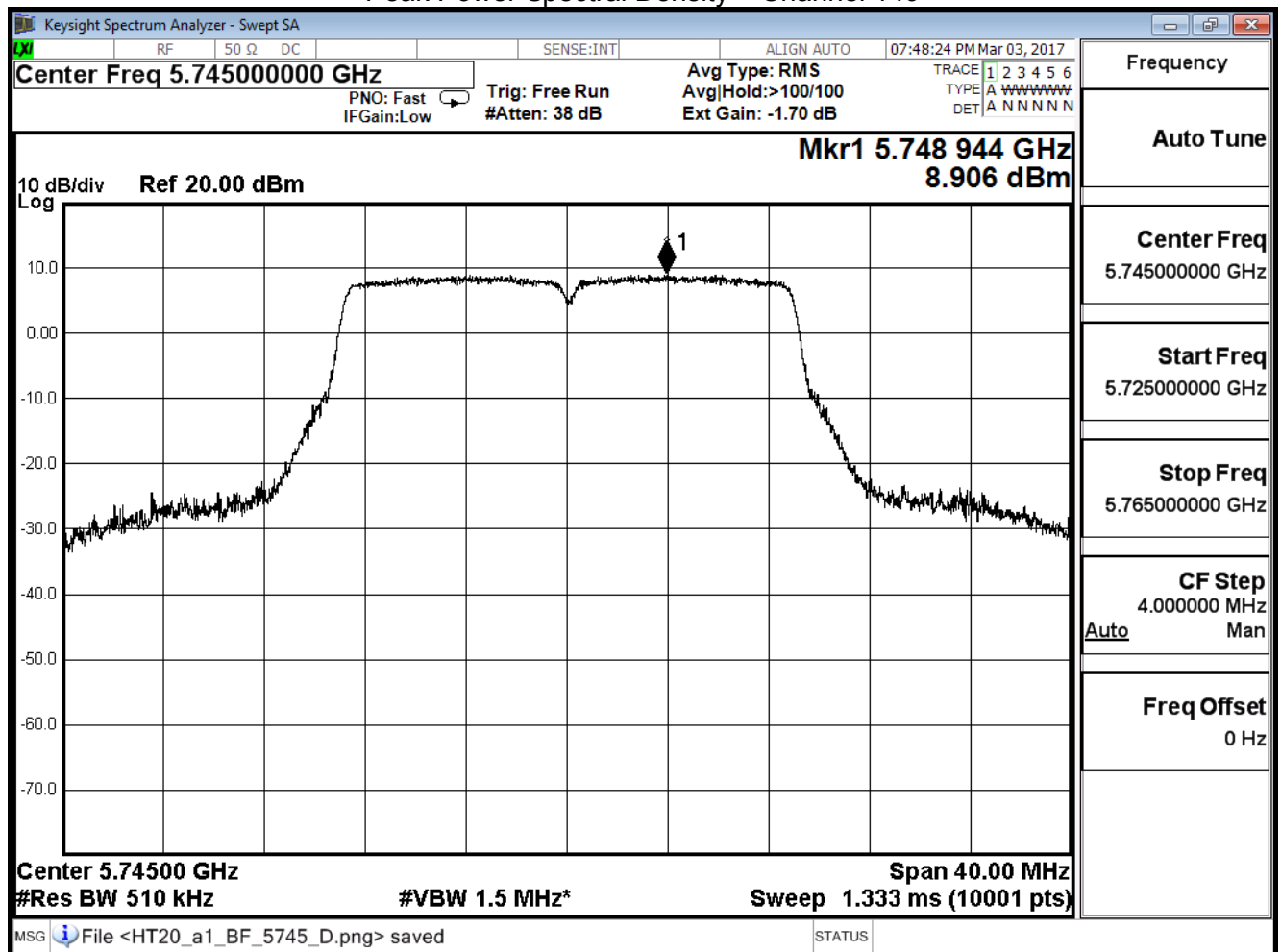
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	8.906	≤29.38	Pass
157	5785	9.158	≤29.38	Pass
165	5825	9.089	≤29.38	Pass

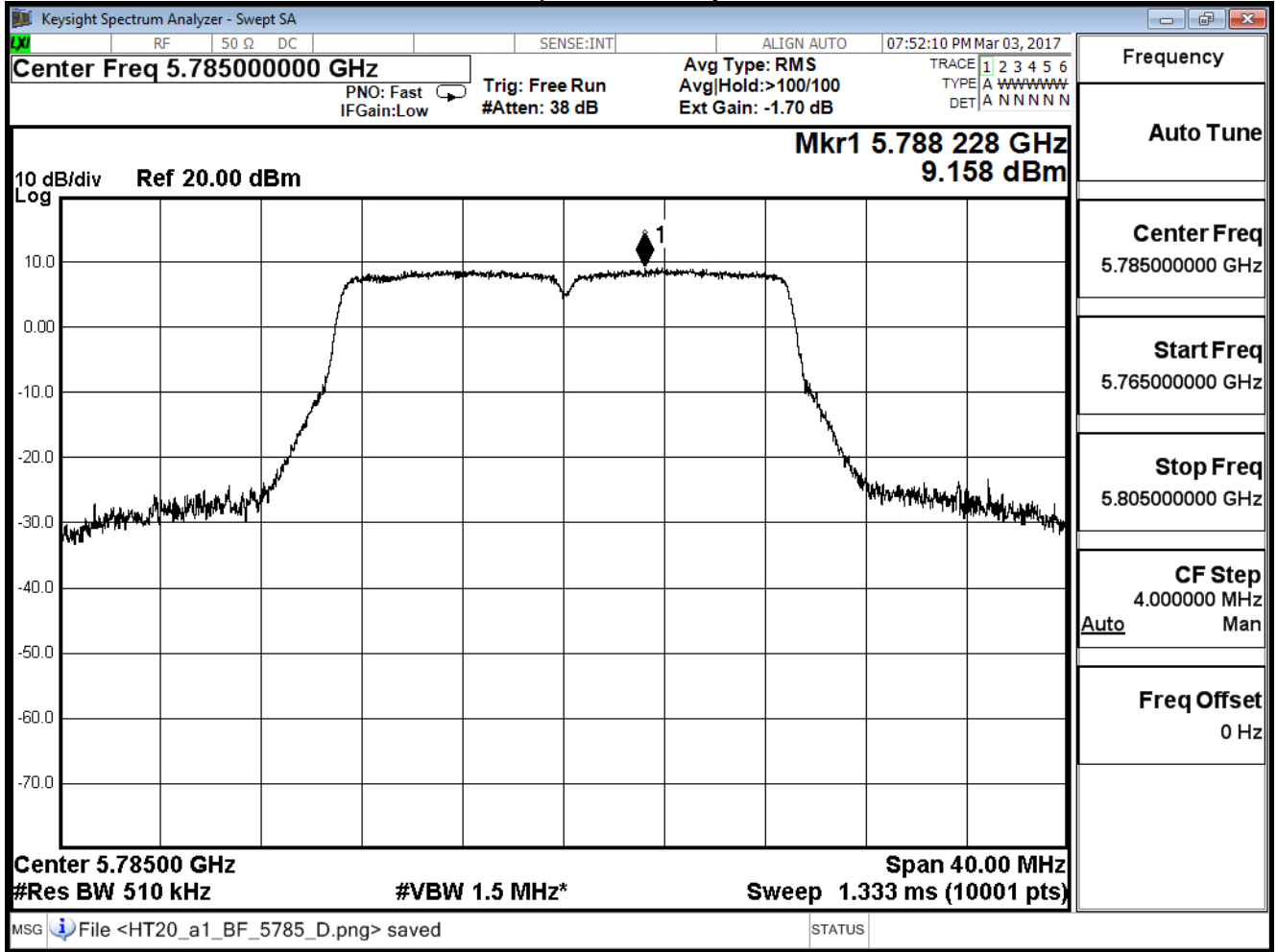
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

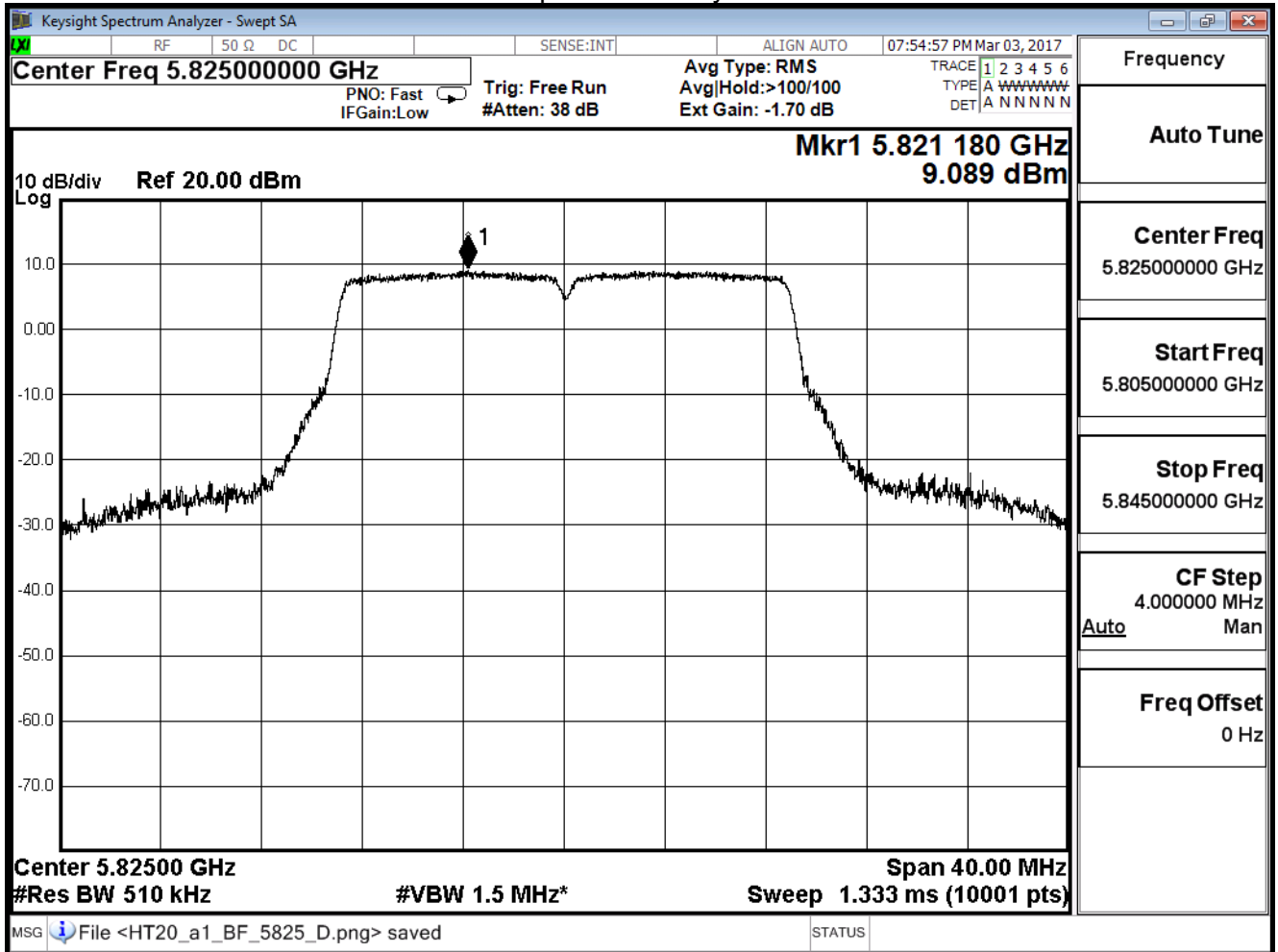
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



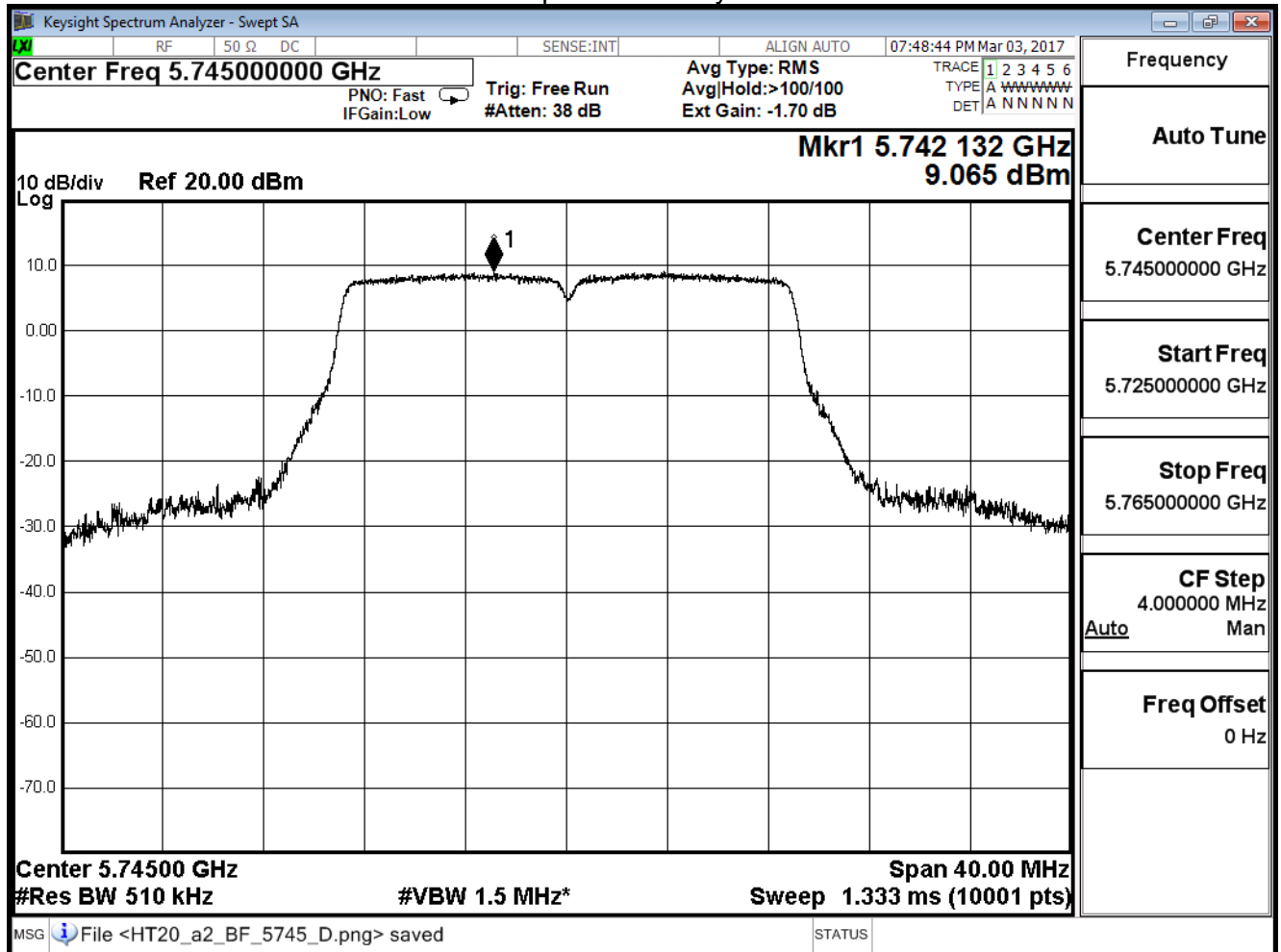
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	9.065	≤29.38	Pass
157	5785	9.113	≤29.38	Pass
165	5825	9.134	≤29.38	Pass

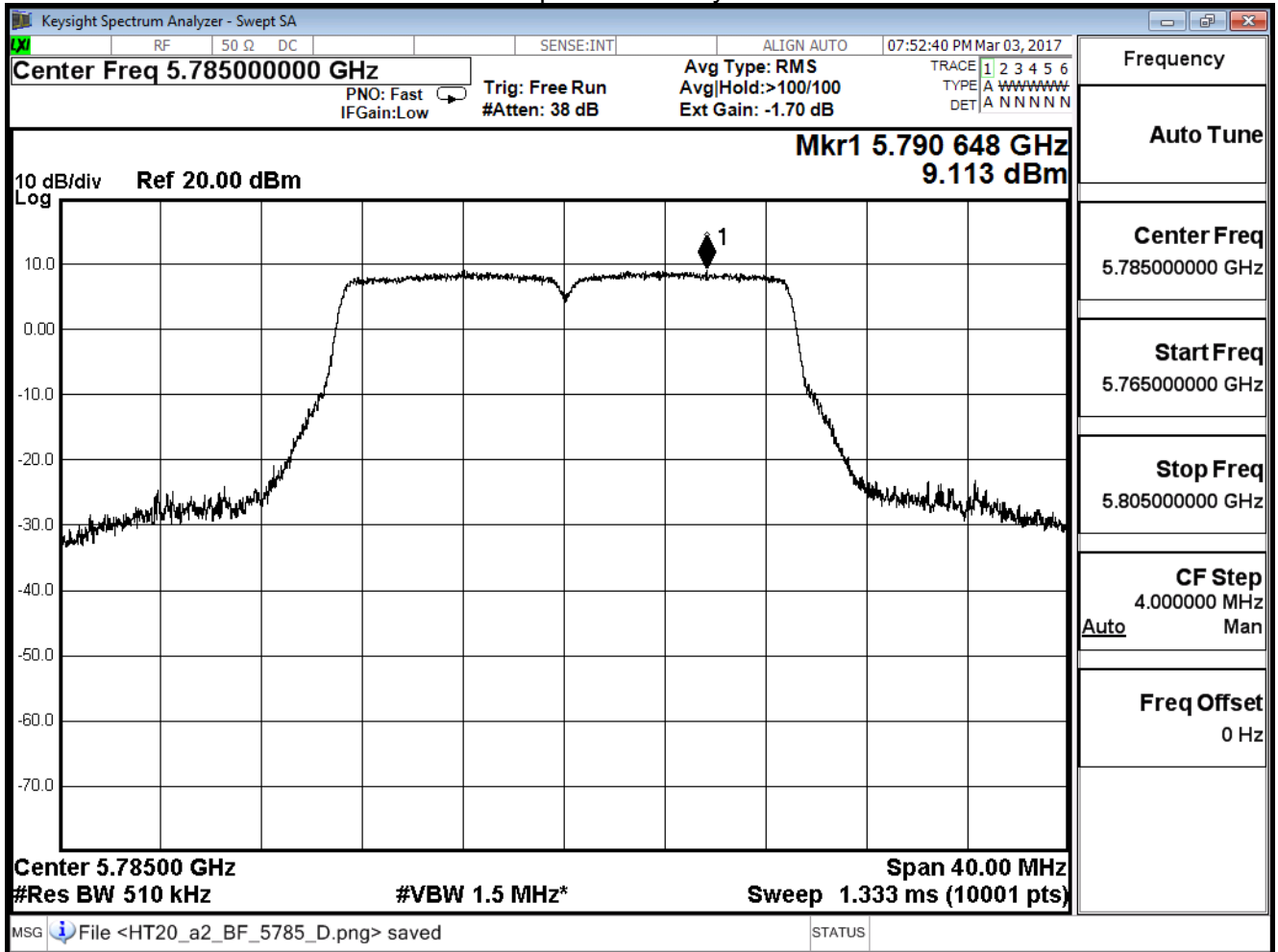
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

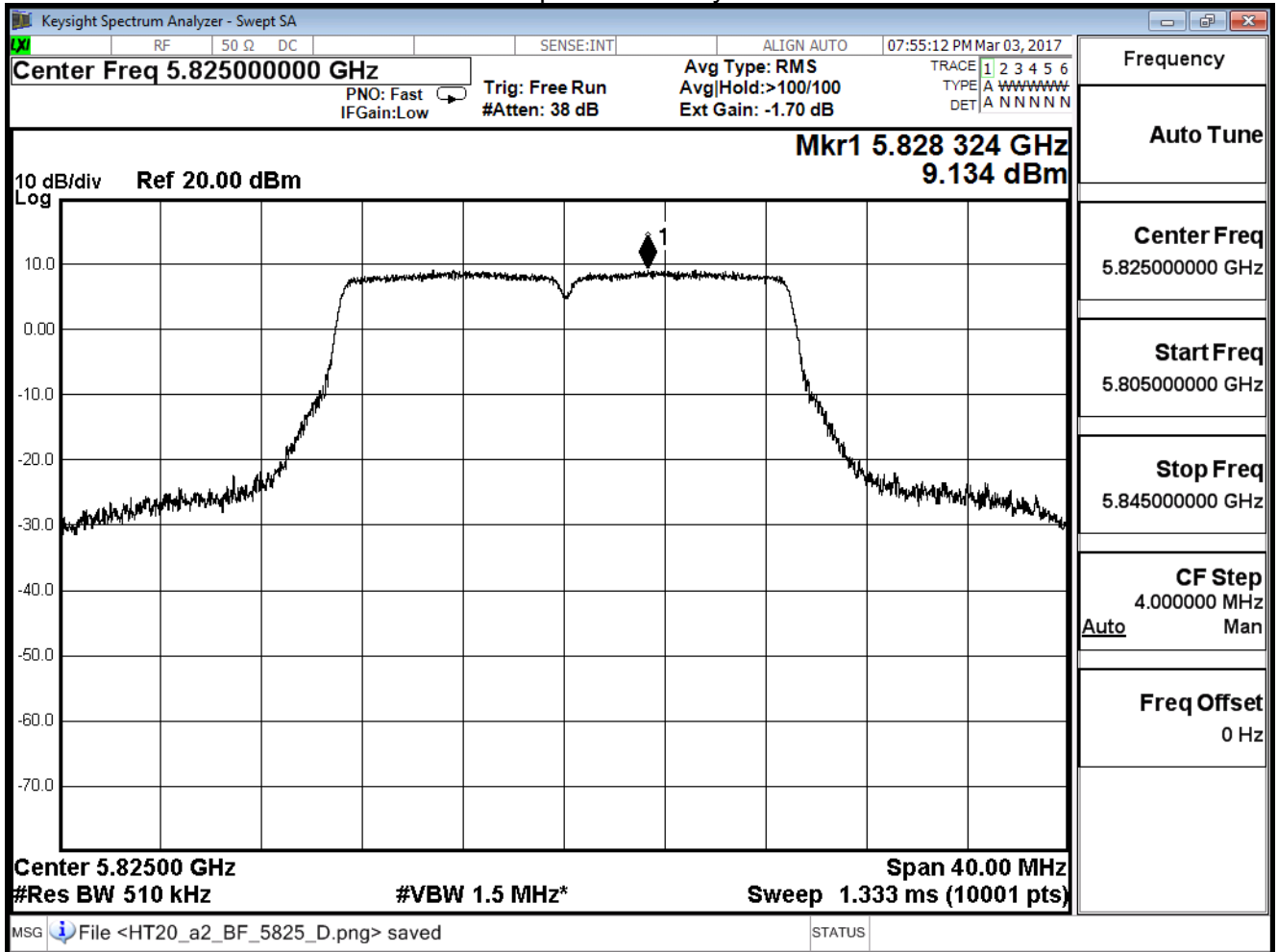
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD P: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	15.039	≤29.38	Pass
157	5785	15.170	≤29.38	Pass
165	5825	15.112	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

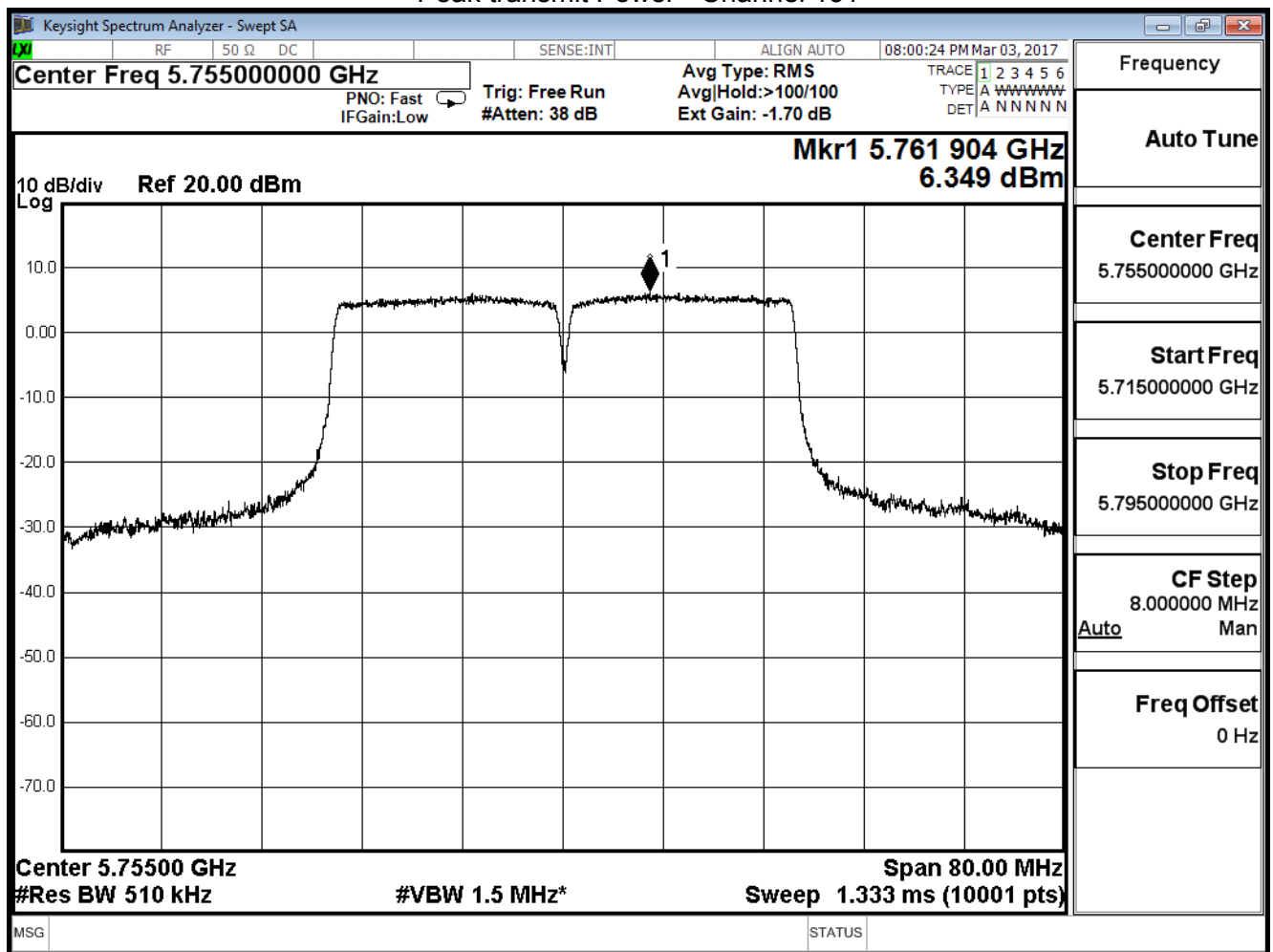
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.349	≤29.38	Pass
159	5795	6.009	≤29.38	Pass

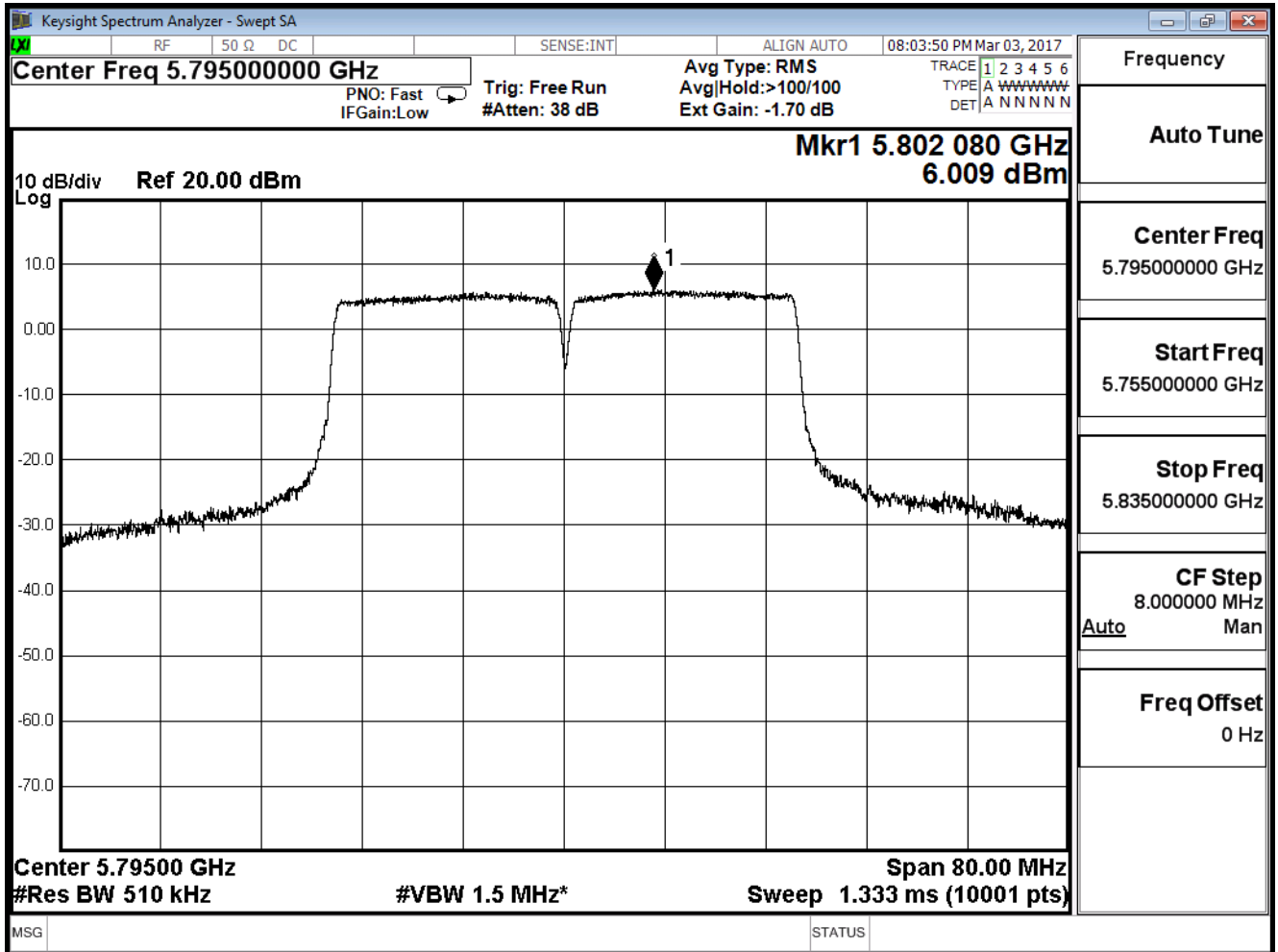
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



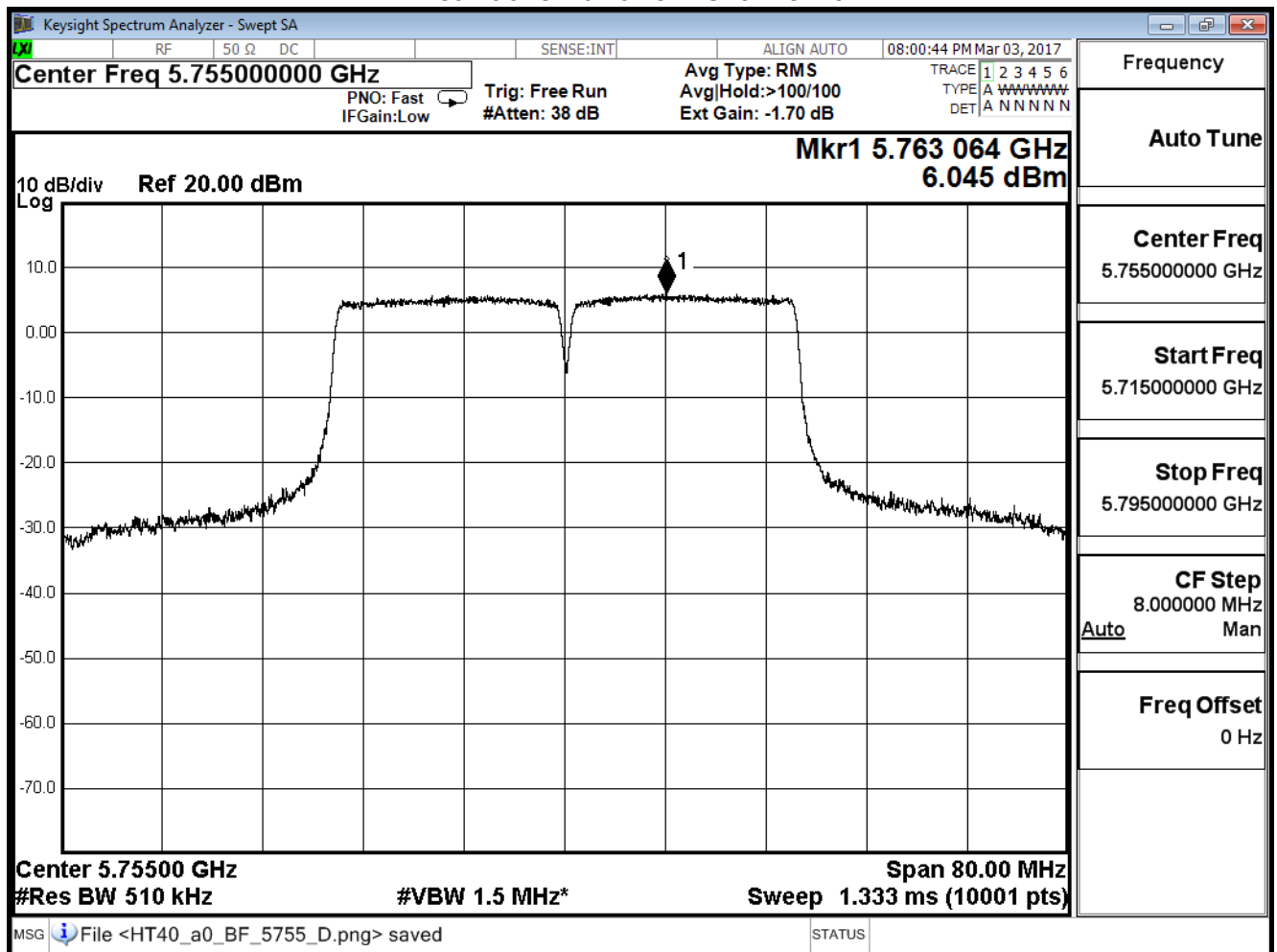
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
151	5755	6.045	≤29.38	Pass
159	5795	6.170	≤29.38	Pass

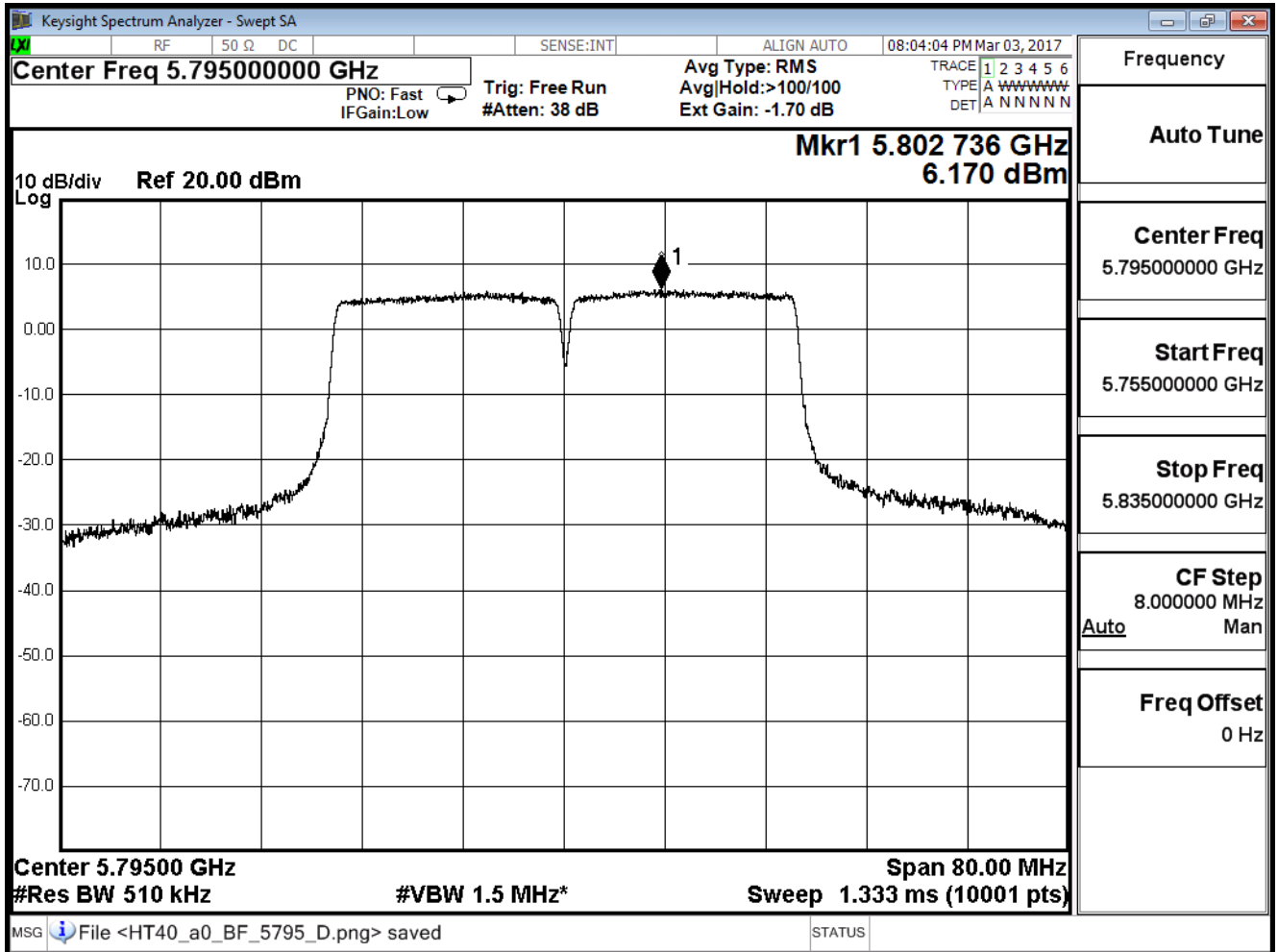
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD P: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

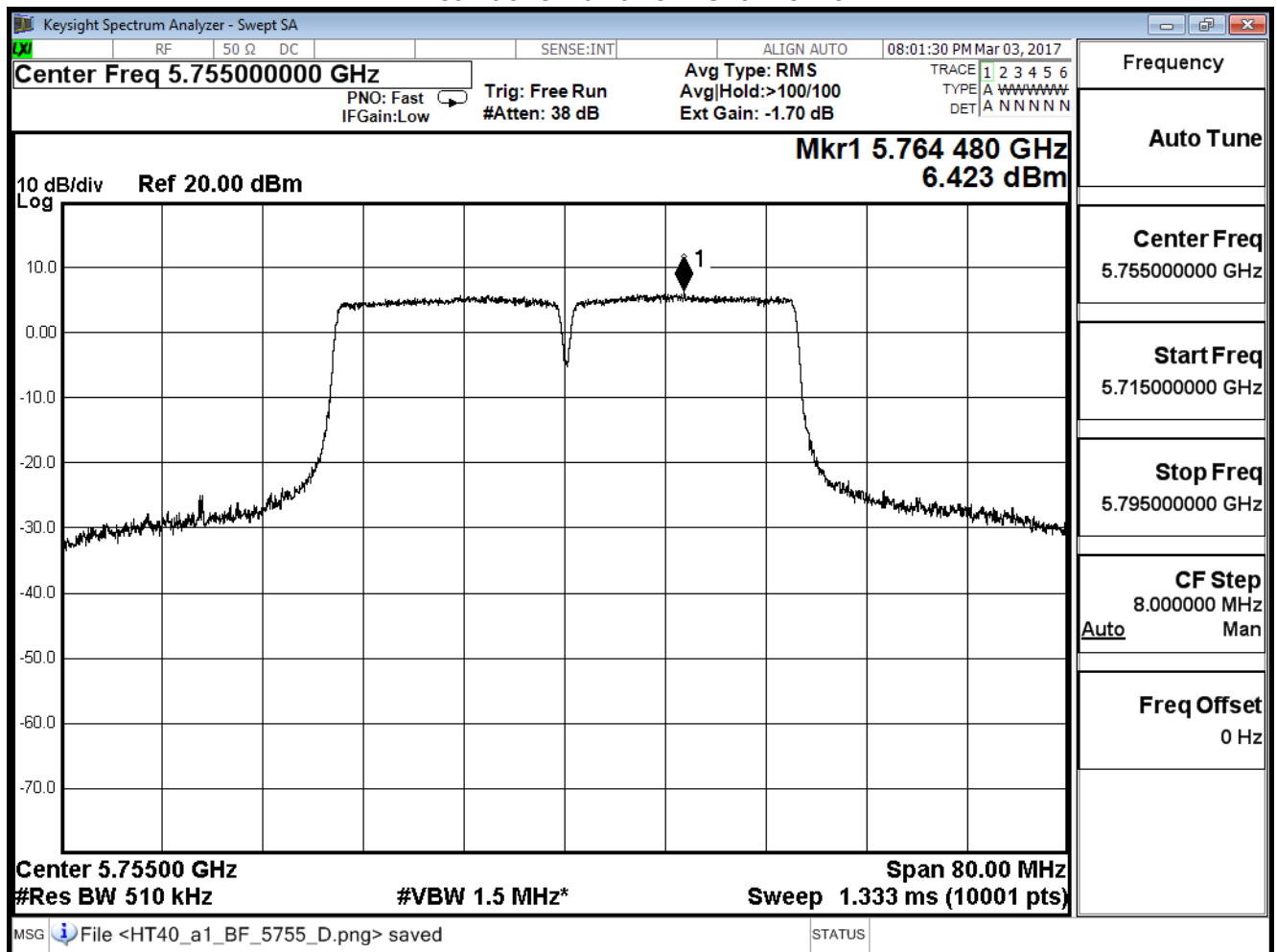
IEEE 802.11n(40MHz) (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.423	≤29.38	Pass
159	5795	6.104	≤29.38	Pass

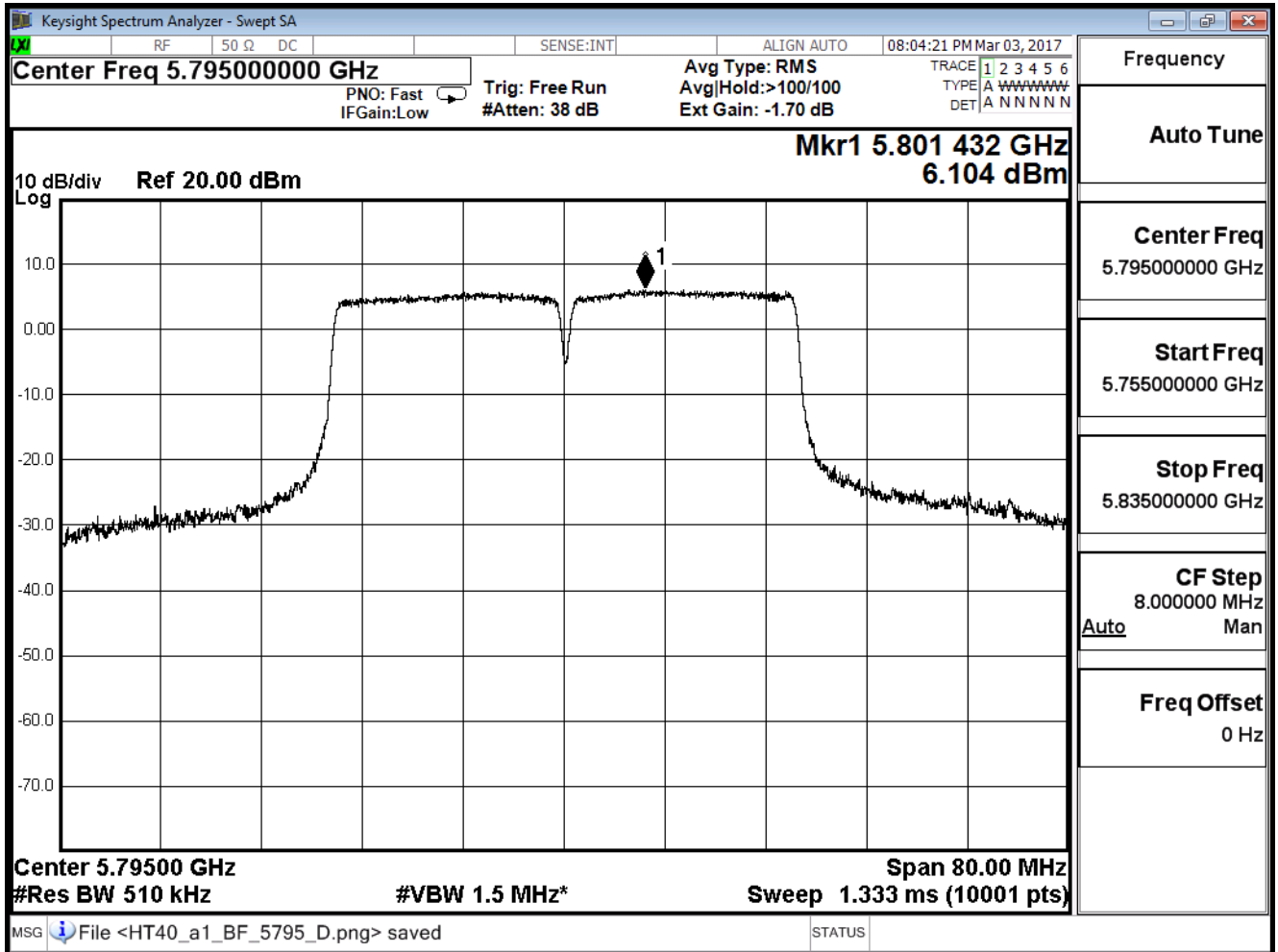
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

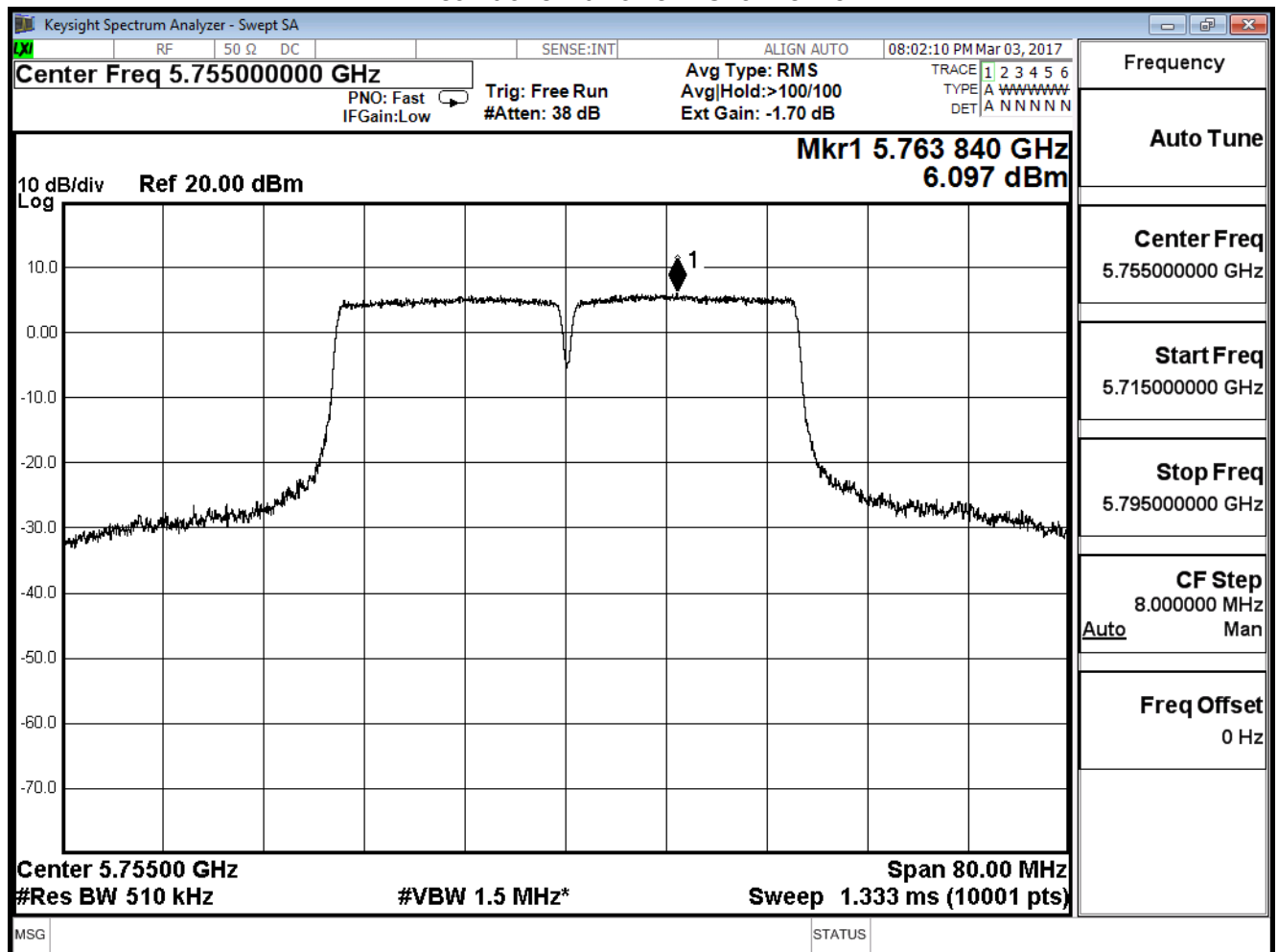
IEEE 802.11n(40MHz) (ANT 3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	6.097	≤29.38	Pass
159	5795	6.197	≤29.38	Pass

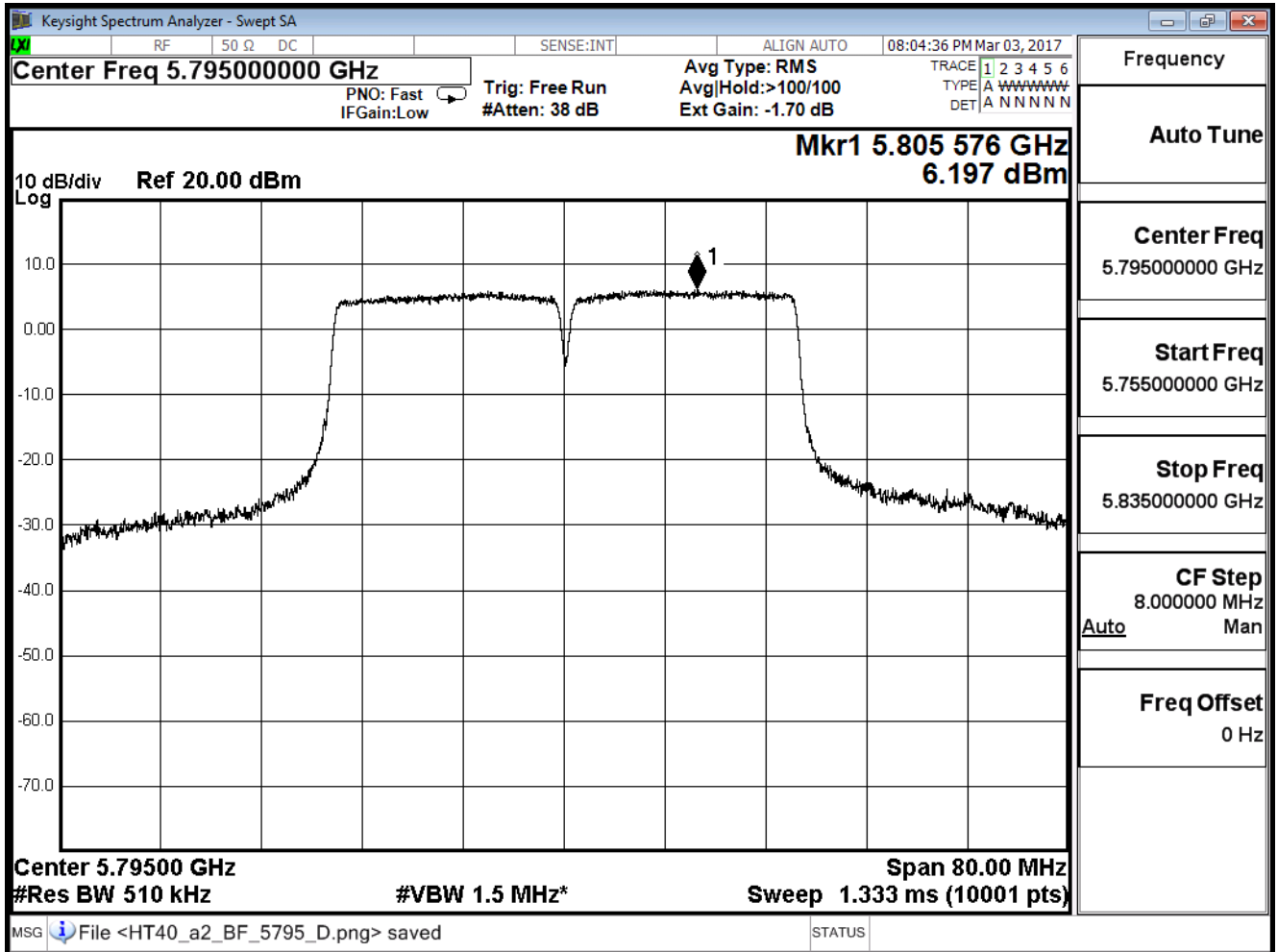
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151



Peak transmit Power - Channel 159



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	12.252	≤29.38	Pass
159	5795	12.141	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

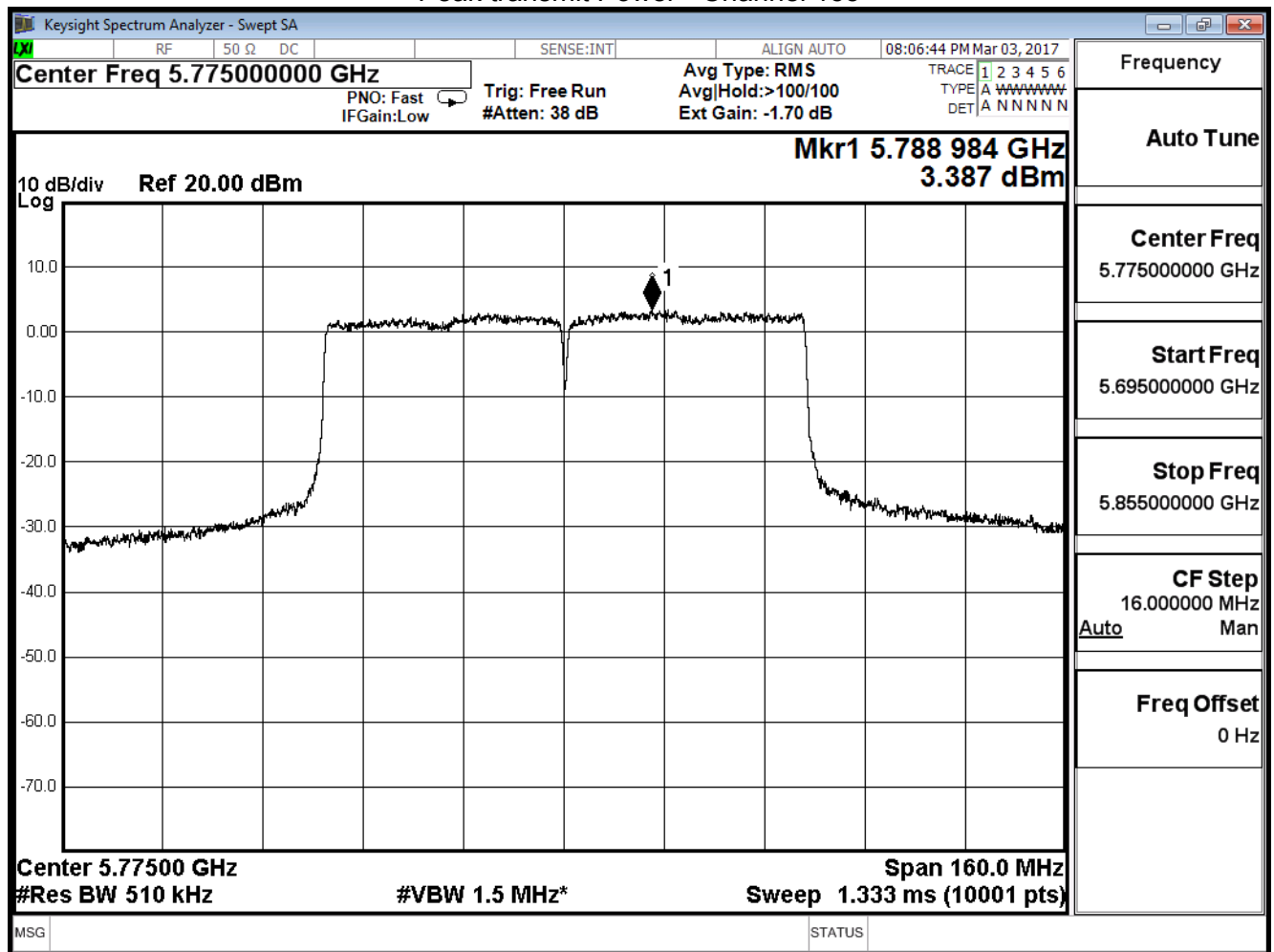
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx ADP: AD890326010-2LF Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.387	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



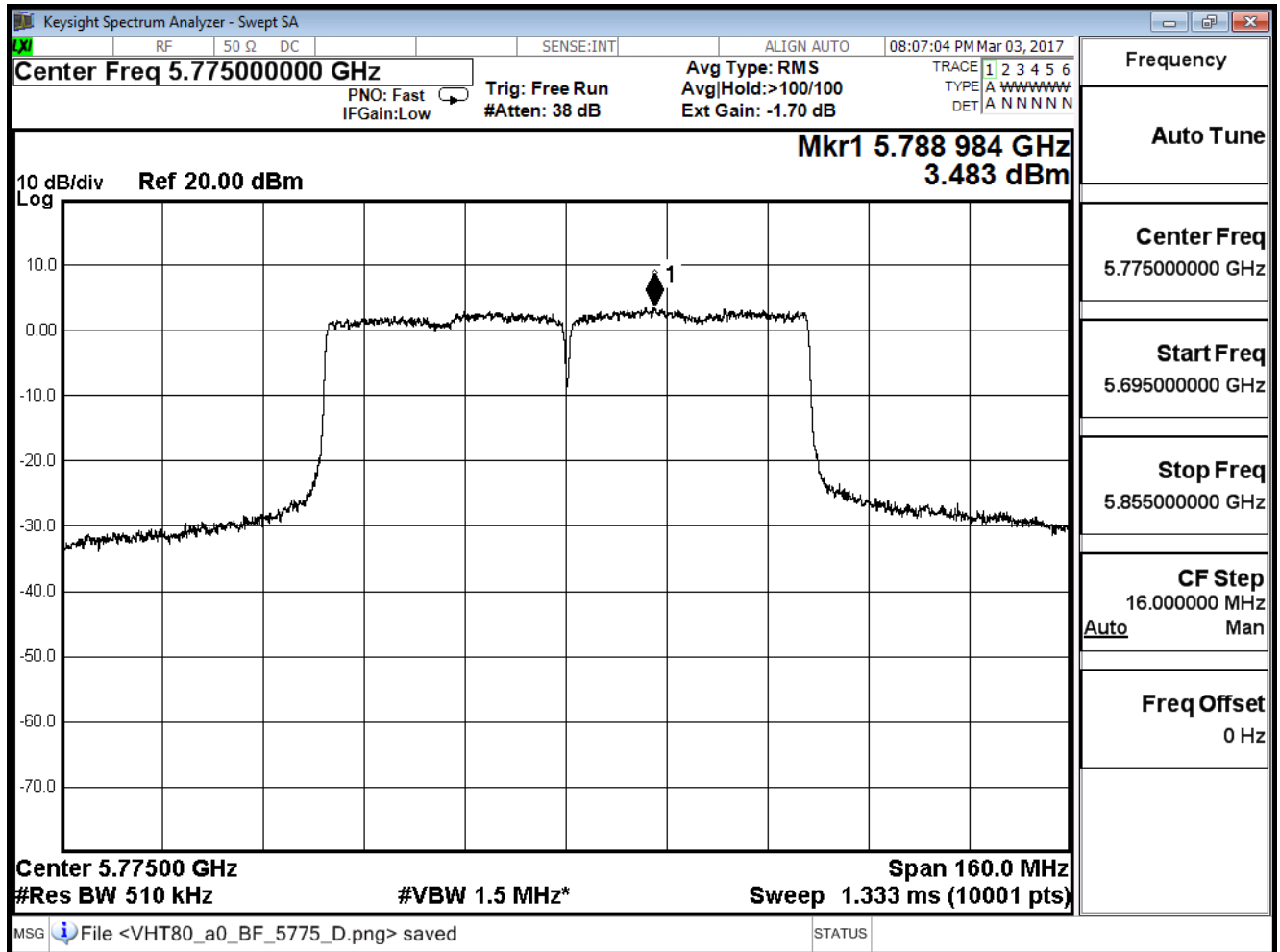
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
155	5775	3.483	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



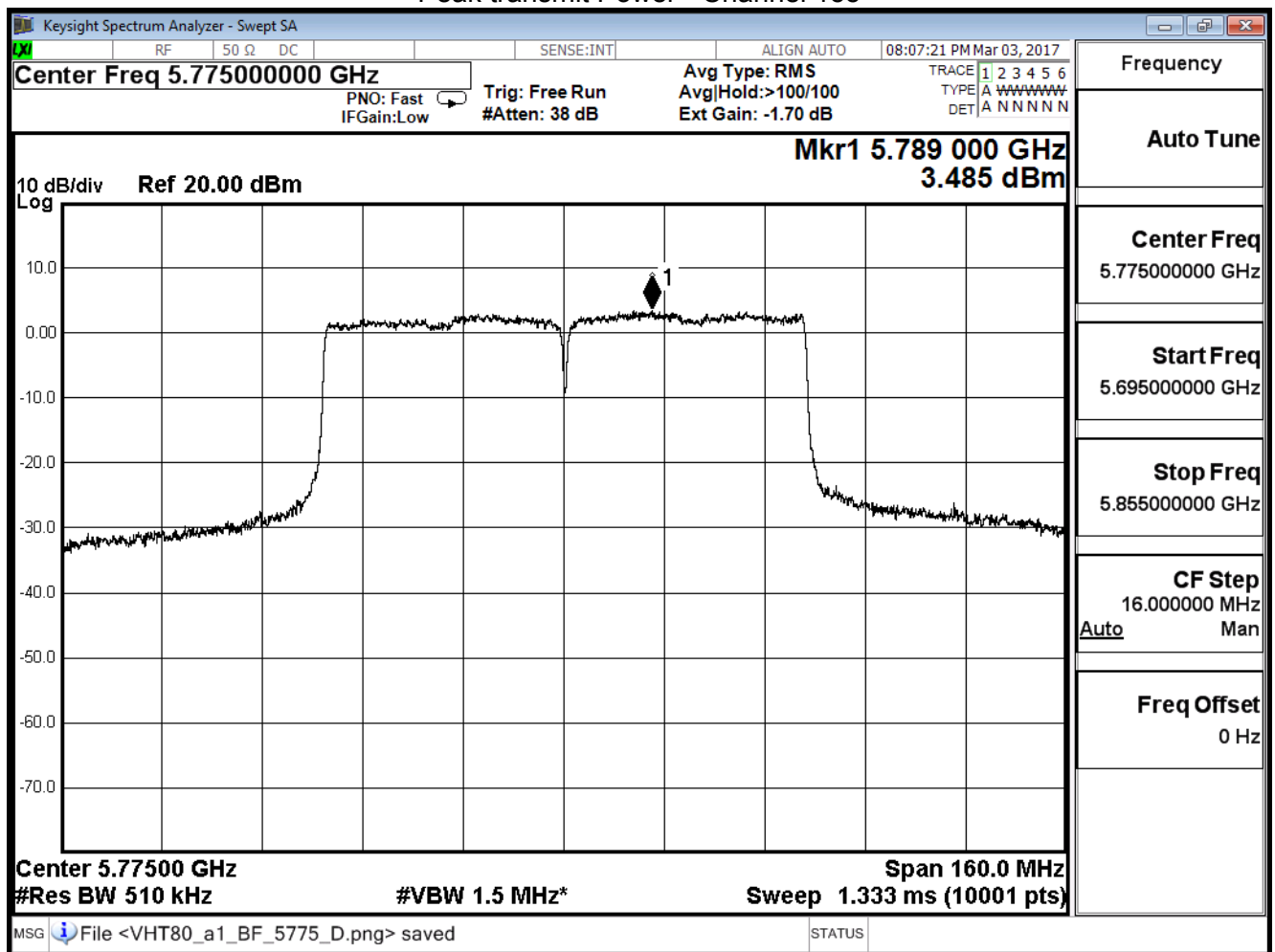
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.485	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



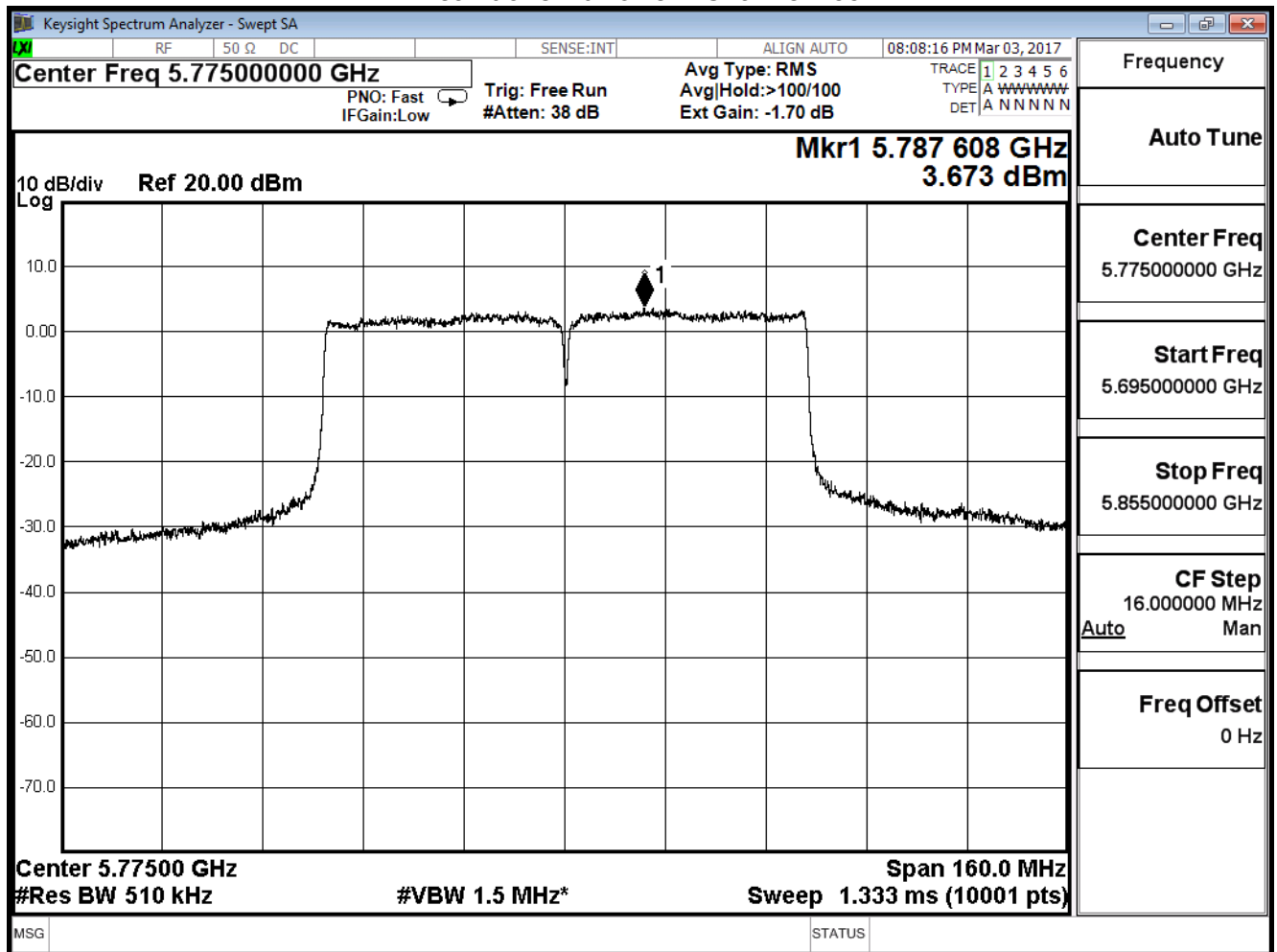
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	3.673	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_AD P: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	9.529	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm