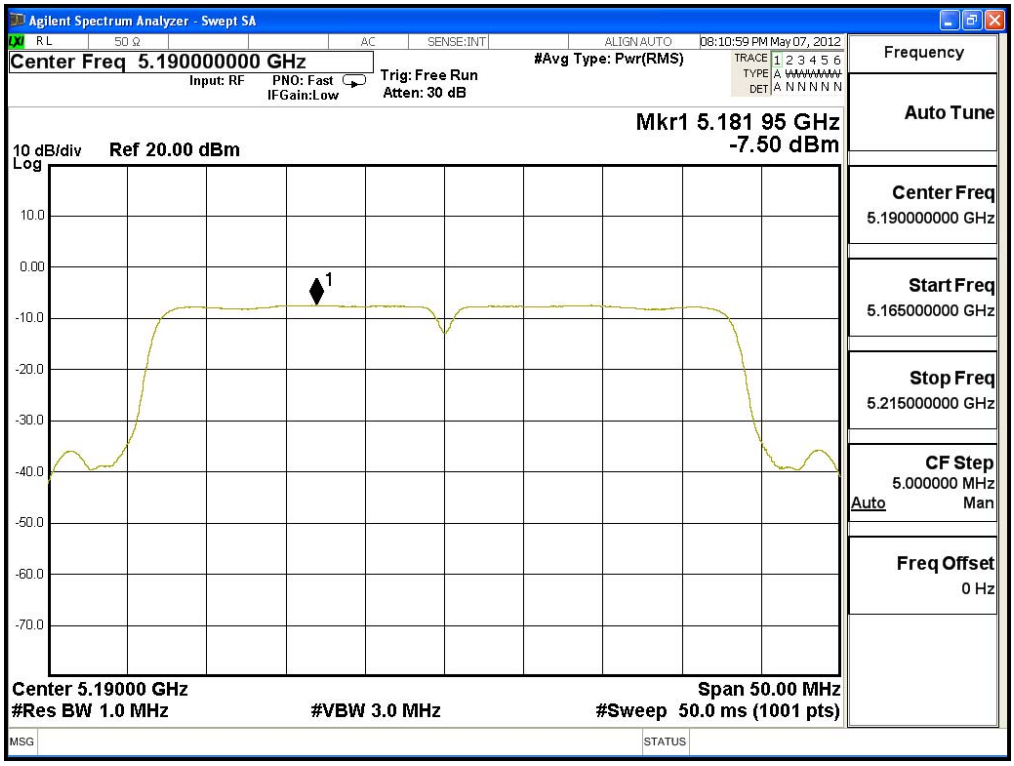
Product : 802.11 a/b/g/n RTL8192DU Module
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

Channel Number	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Required Limit (dBm)	Result
38	5190	-7.500	-8.090	-4.775	<4	Pass
46	5230	-8.250	-7.370	-4.777	<4	Pass
54	5270	-4.570	-4.050	-1.292	<11	Pass
62	5310	-4.950	-3.810	-1.332	<11	Pass
102	5510	-3.810	-3.990	-0.889	<11	Pass
110	5550	-1.350	-1.350	1.660	<11	Pass
134	5670	-6.640	-6.350	-3.482	<11	Pass

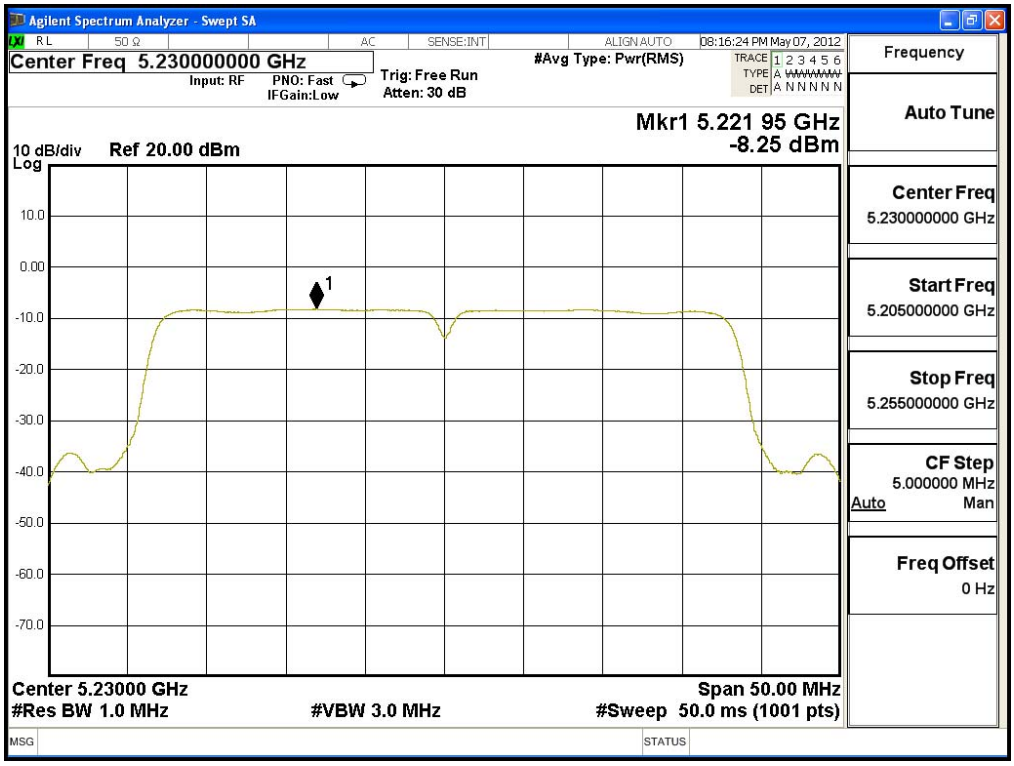
Note:

1. Measurement Level (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))

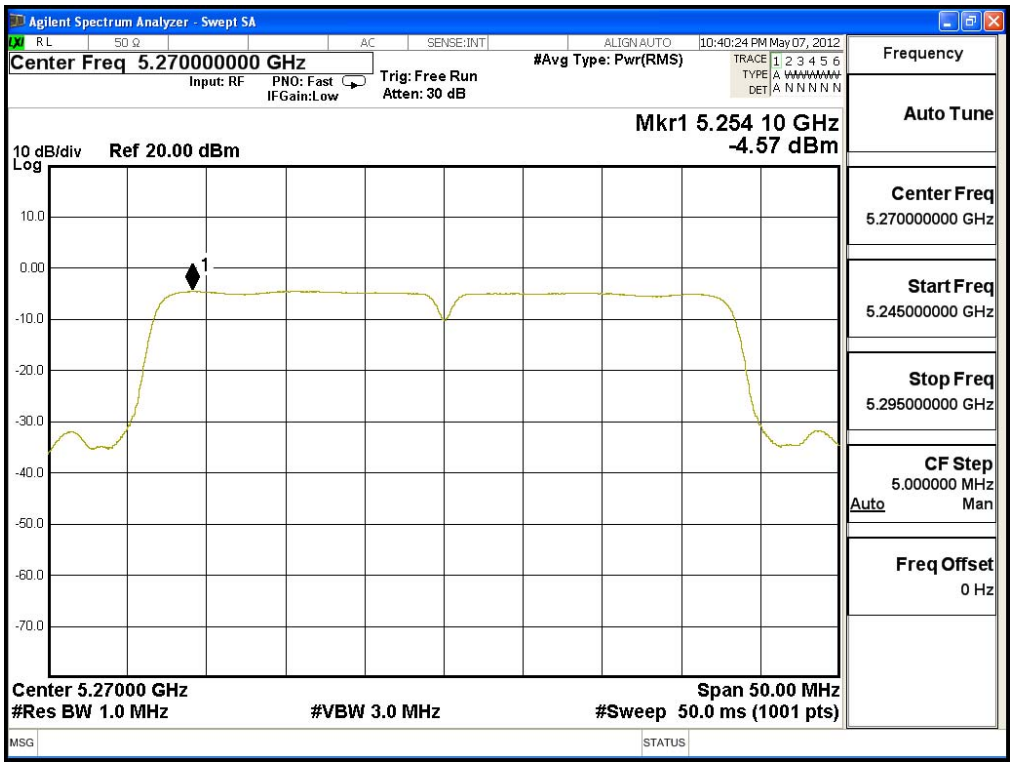
Channel 38 – Chain A



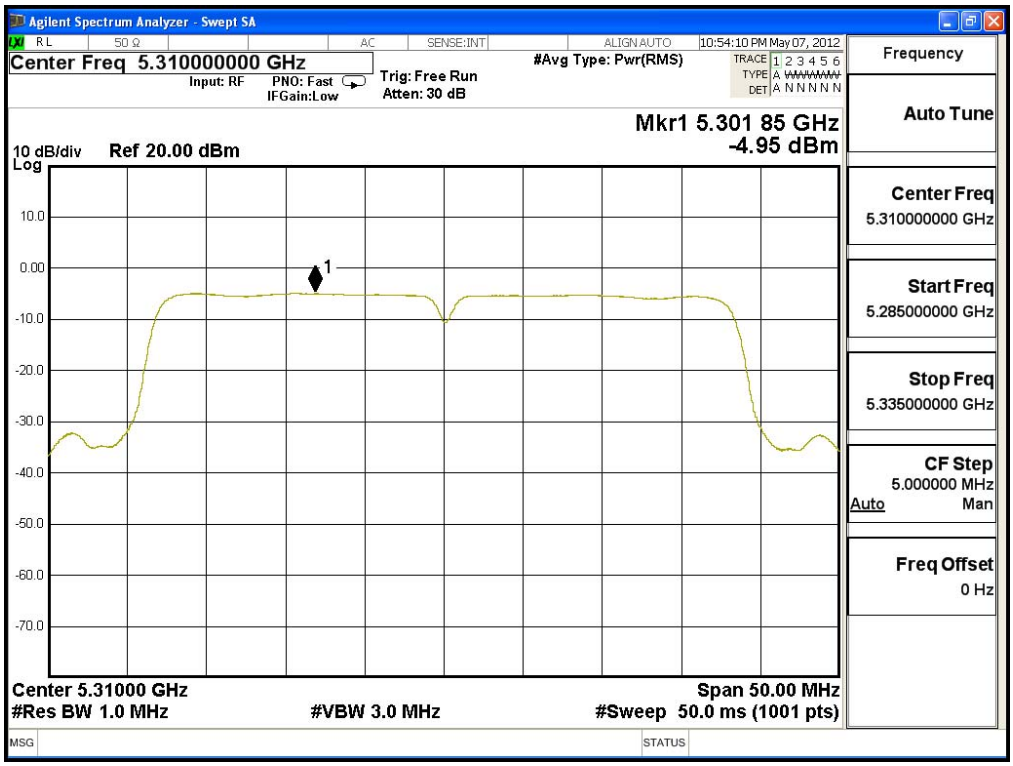
Channel 46 – Chain A



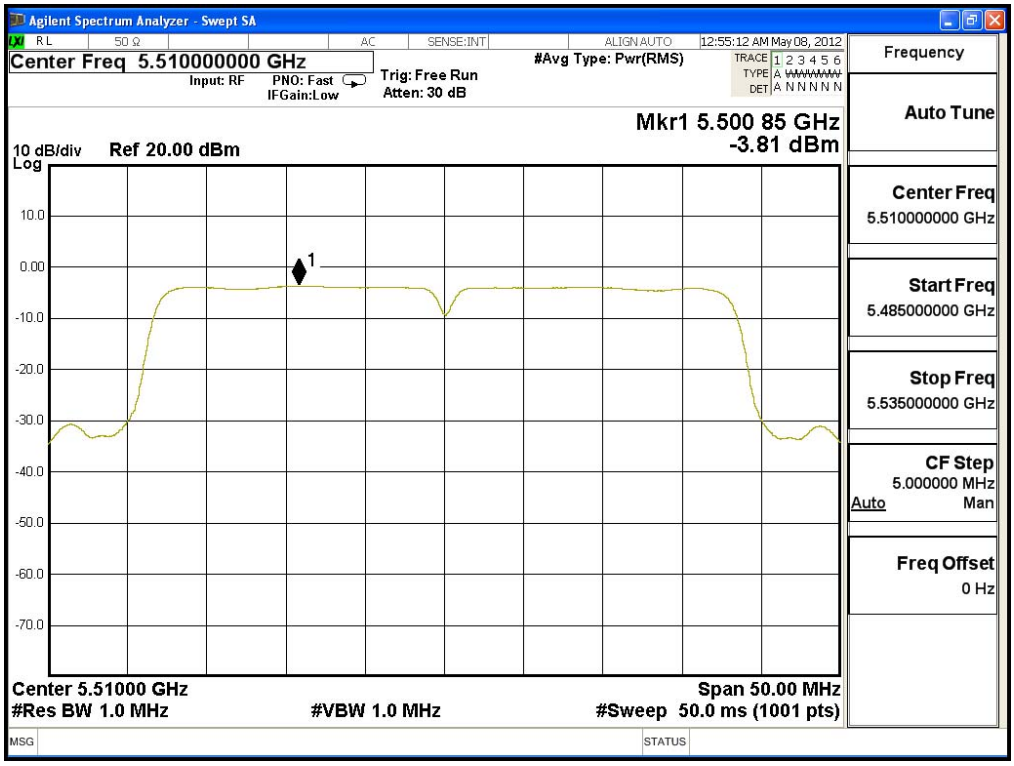
Channel 54 – Chain A



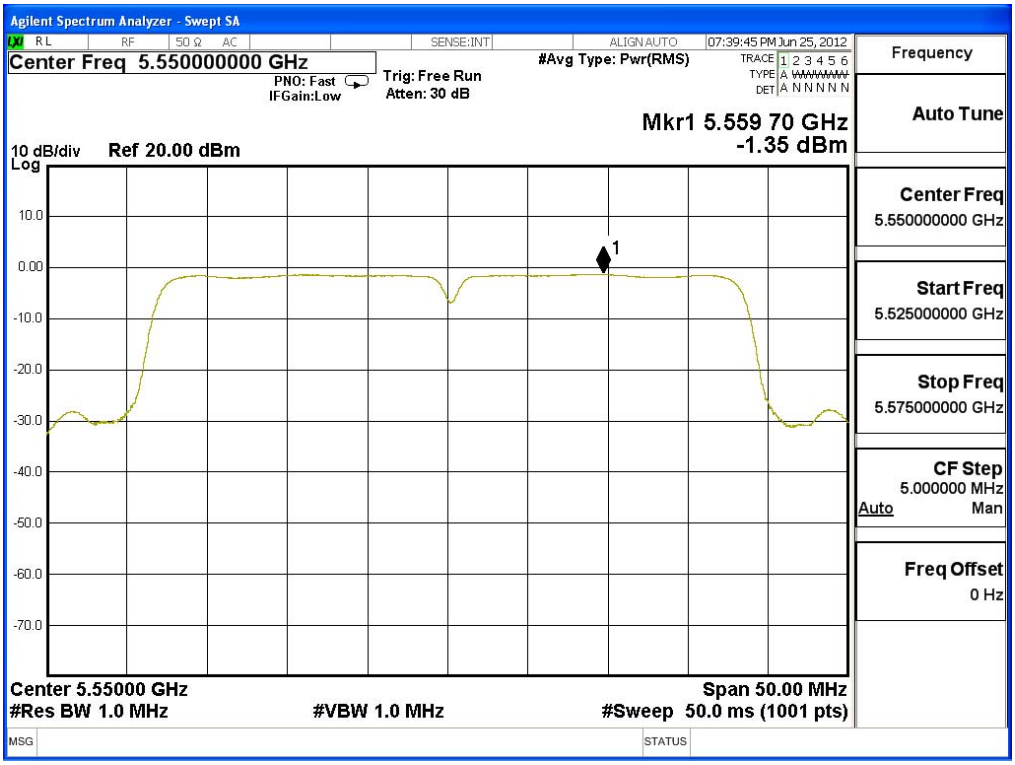
Channel 62 – Chain A



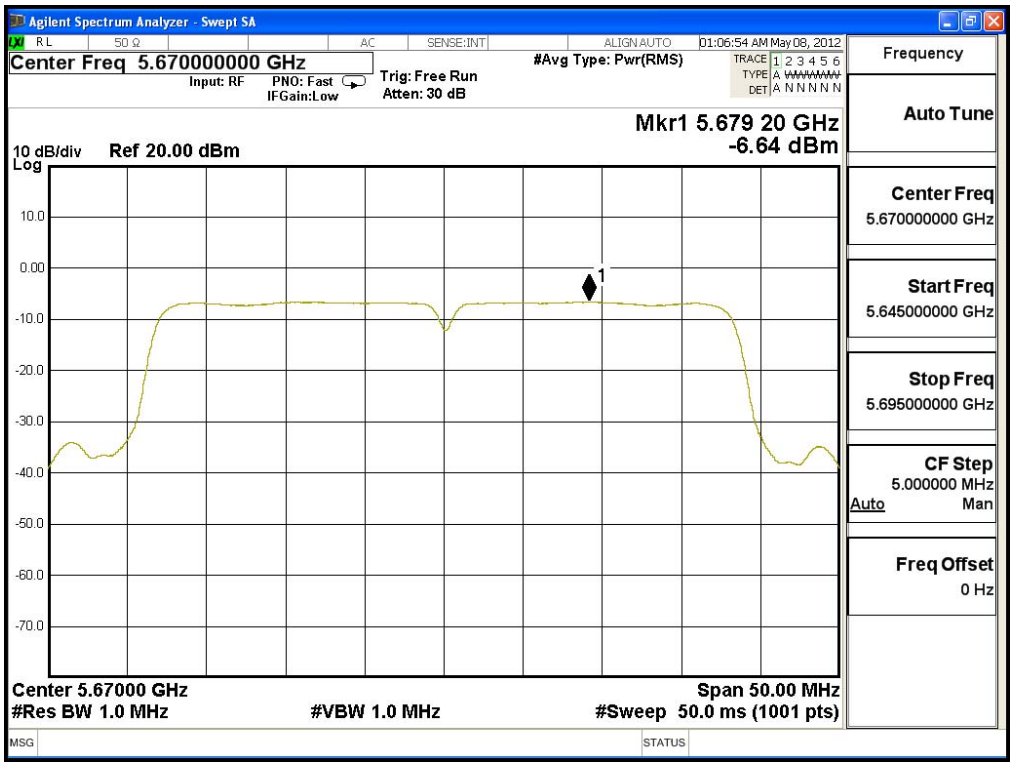
Channel 102 – Chain A



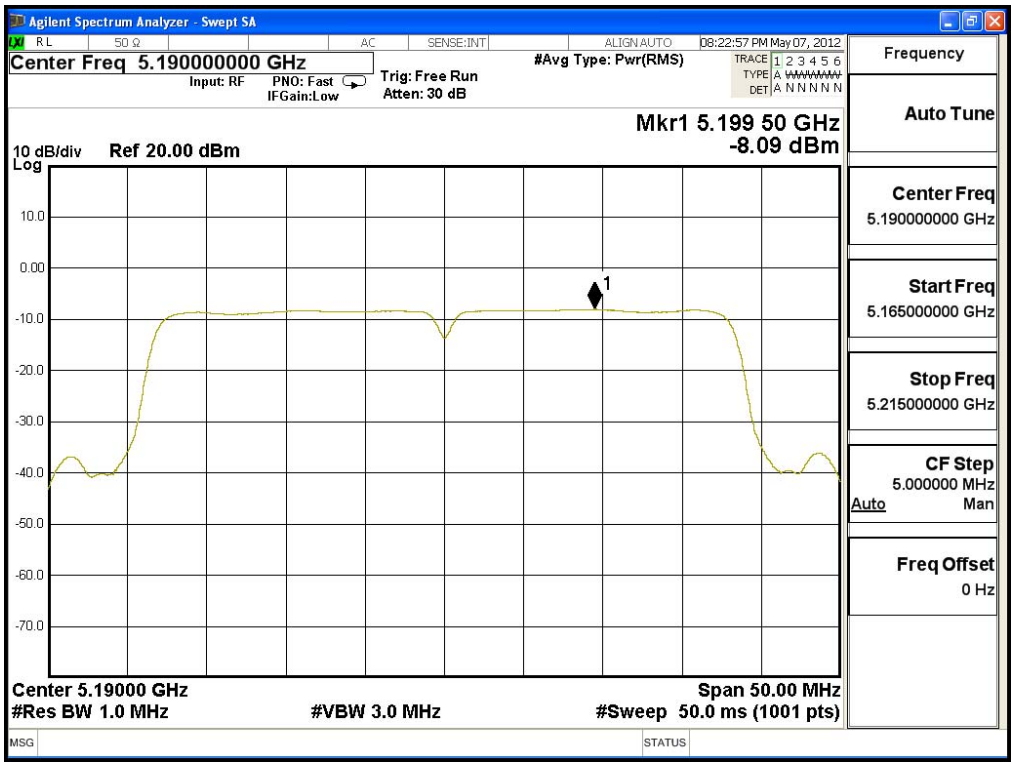
Channel 110 – Chain A



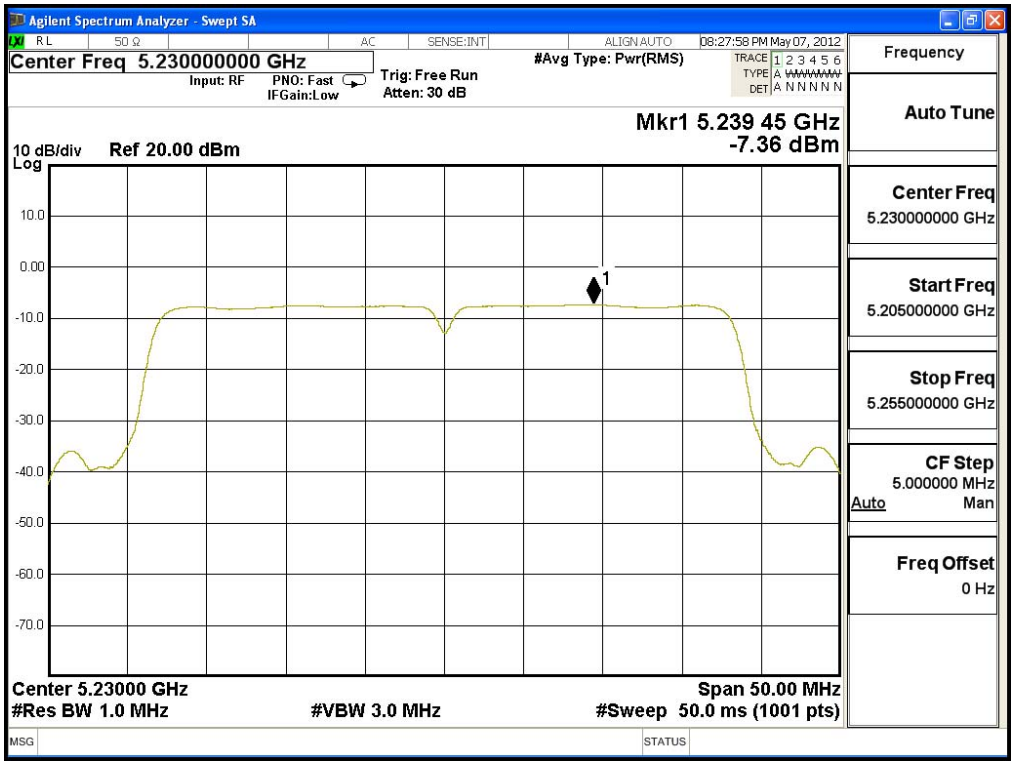
Channel 134 – Chain A



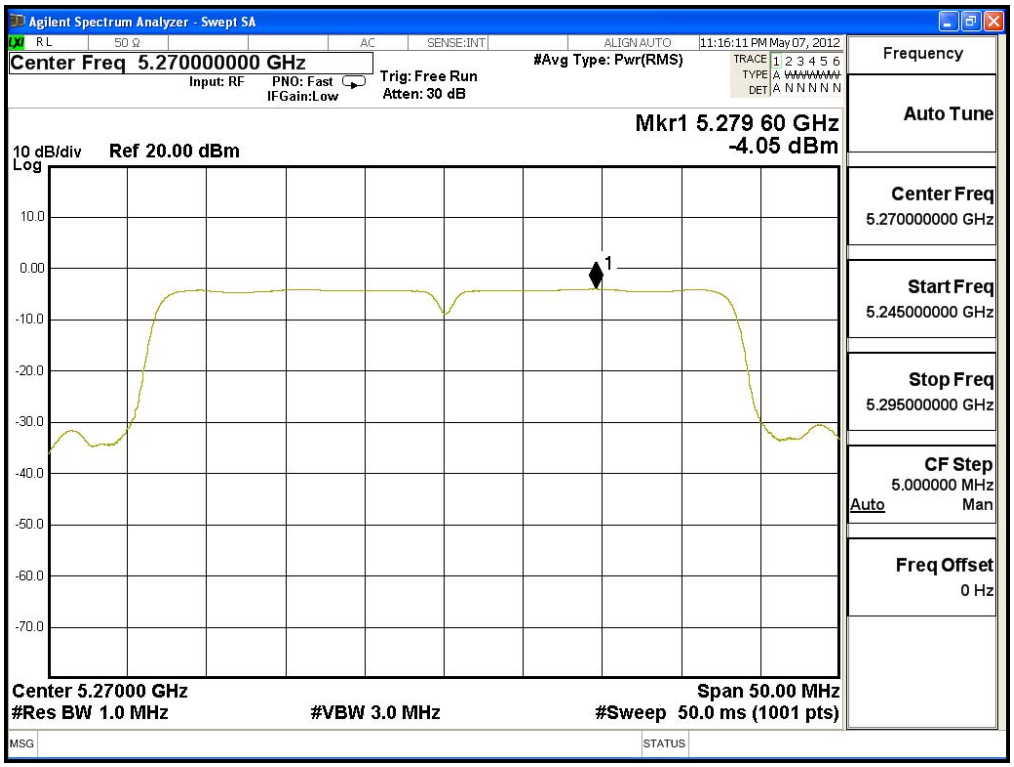
Channel 38 – Chain B



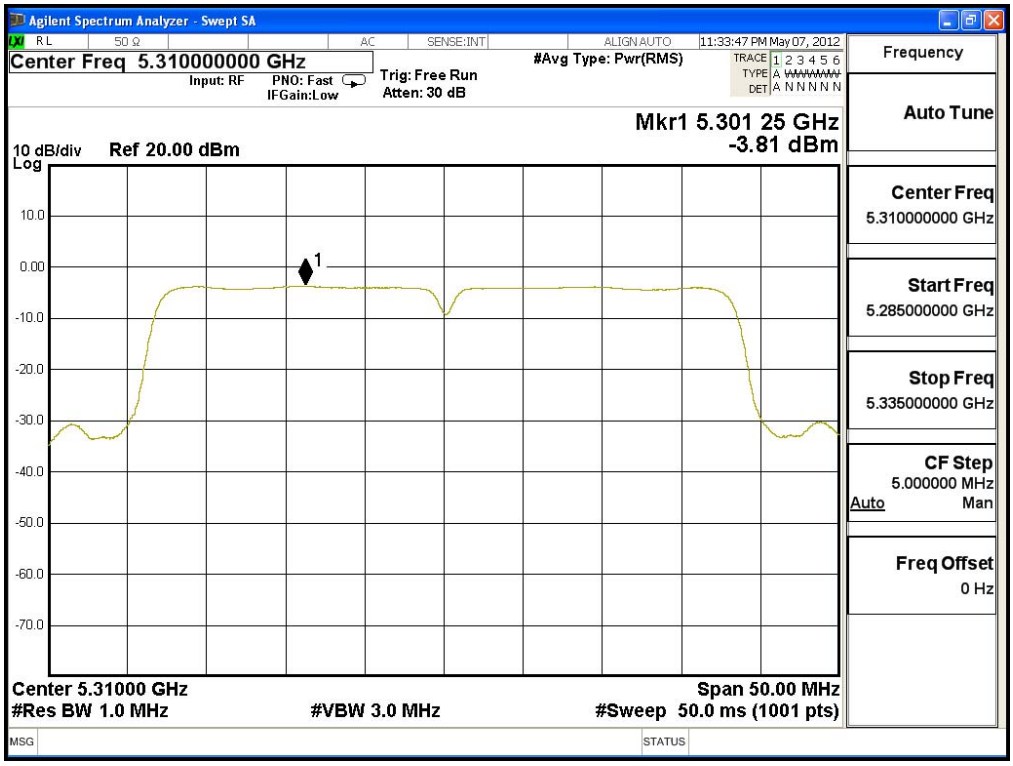
Channel 46 – Chain B



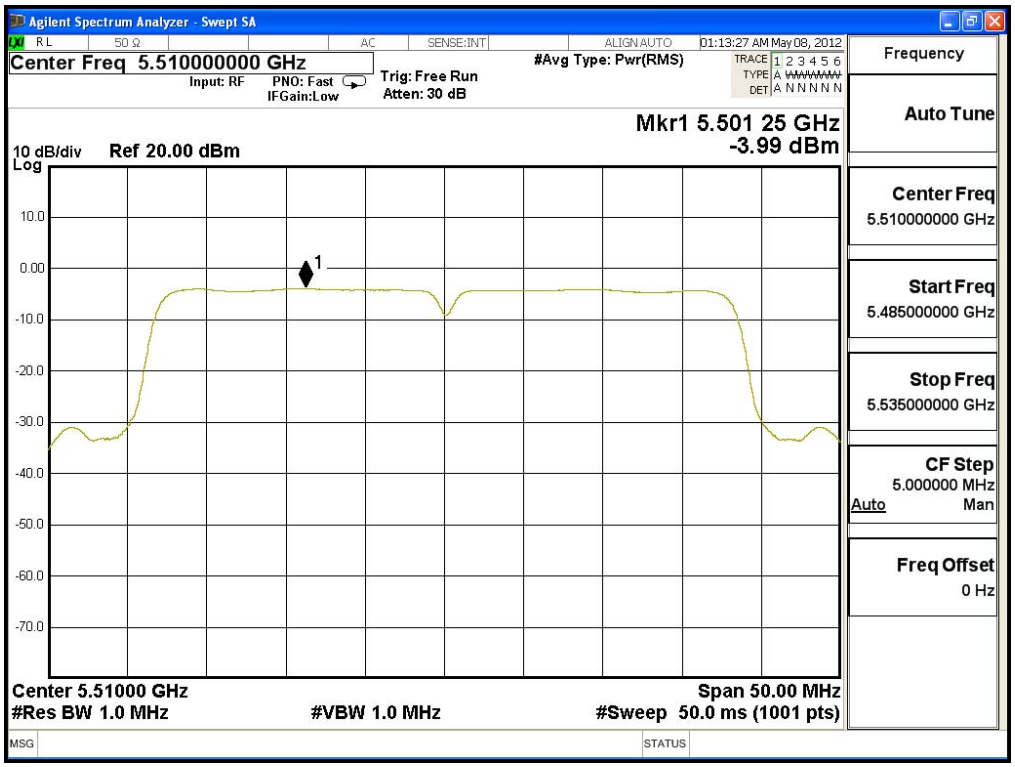
Channel 54 – Chain B



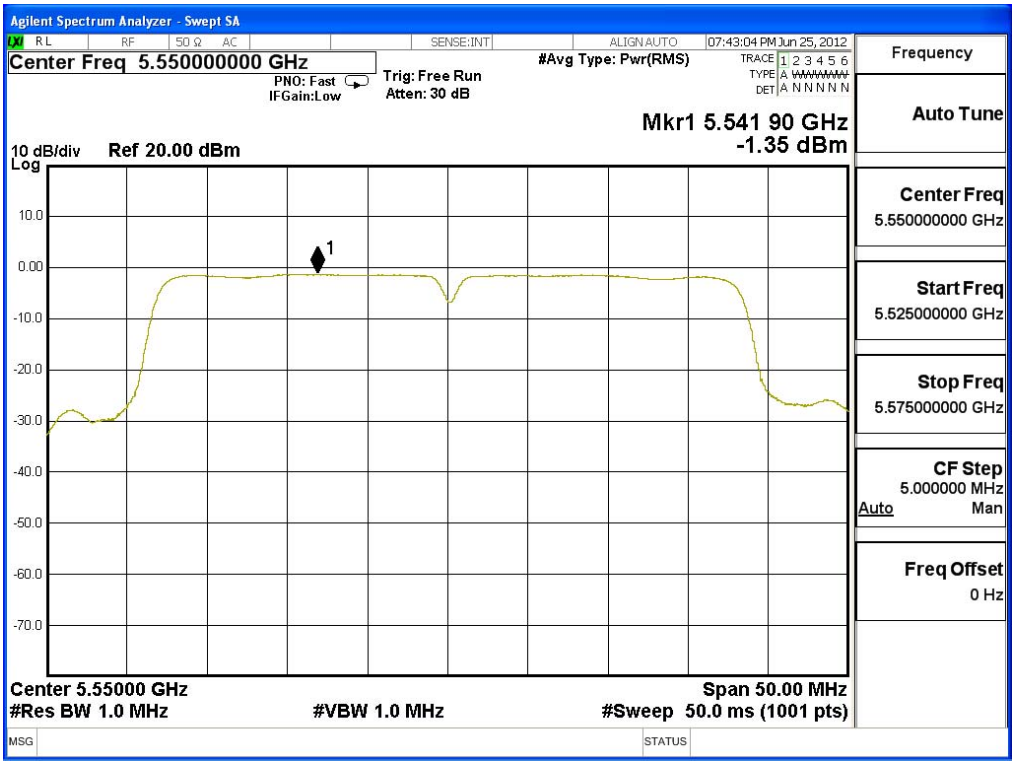
Channel 62 – Chain B



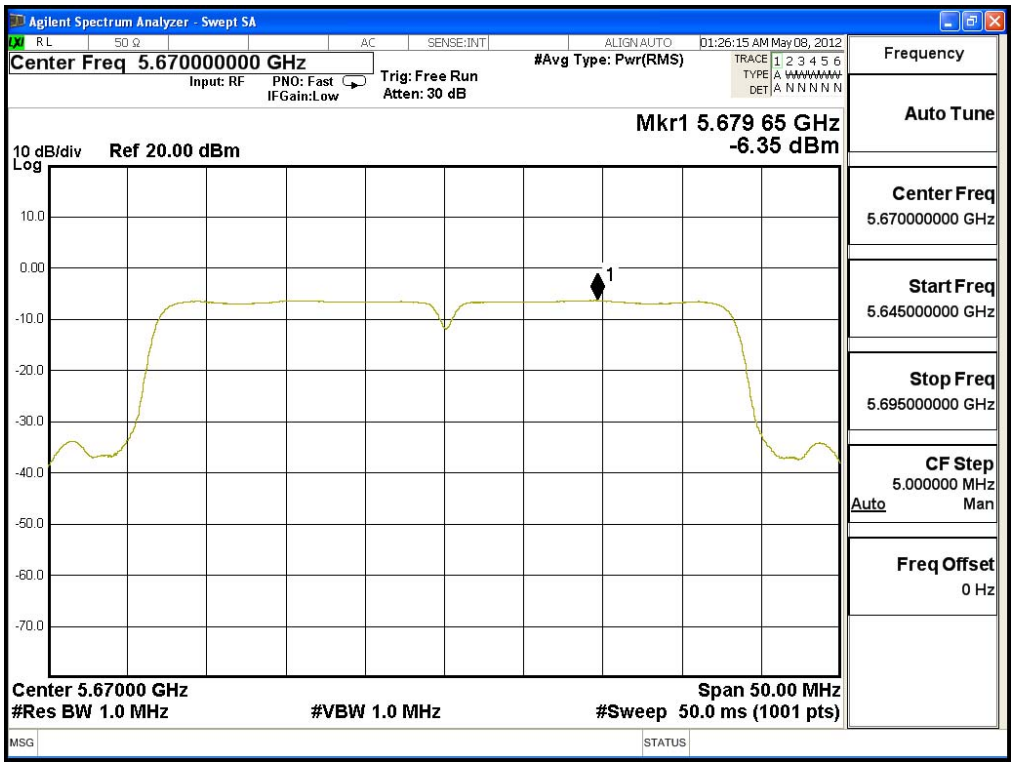
Channel 102 – Chain B



Channel 110 – Chain B



Channel 134 – Chain B



5. Peak Excursion

5.1. Test Equipment

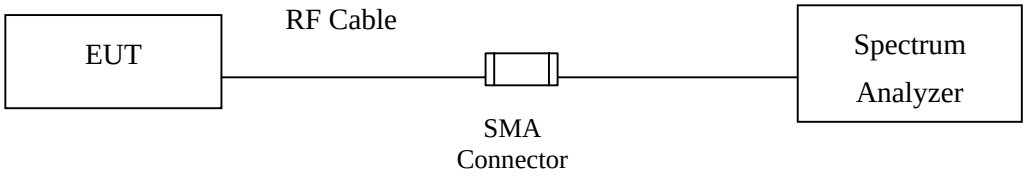
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2012
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

Conduction Power Measurement



5.3. Limits

The ratio of the peak excursion of the modulation envelope (measured suing a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

5.5. Uncertainty

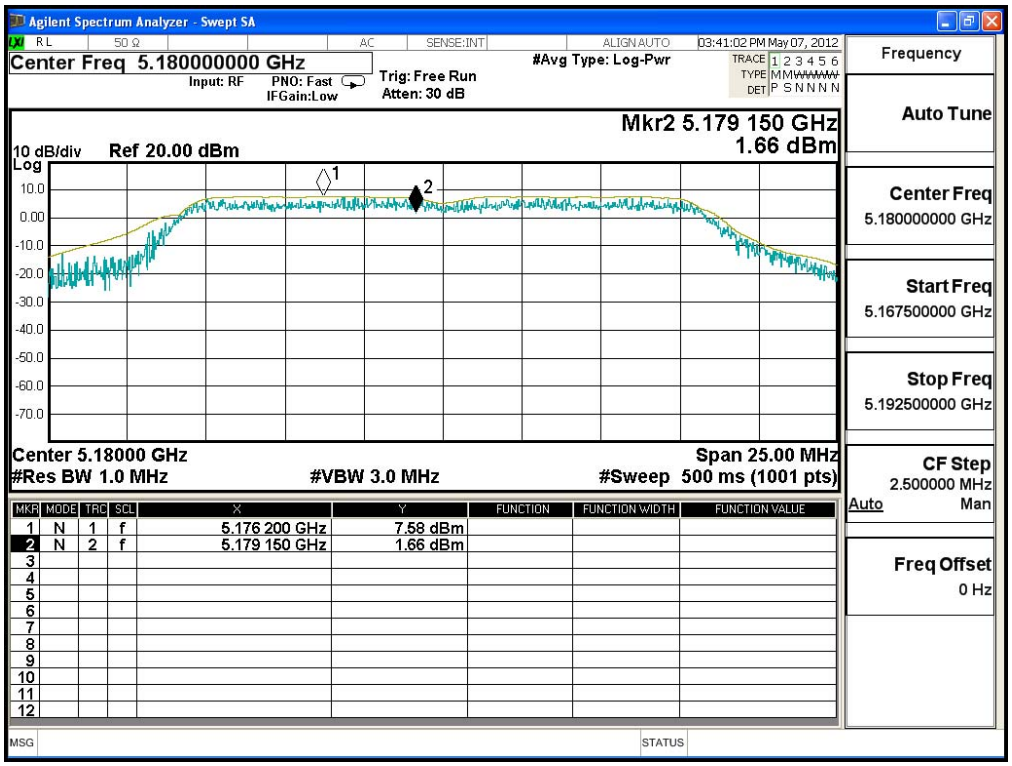
± 1.27 dB

5.6. Test Result of Peak Excursion

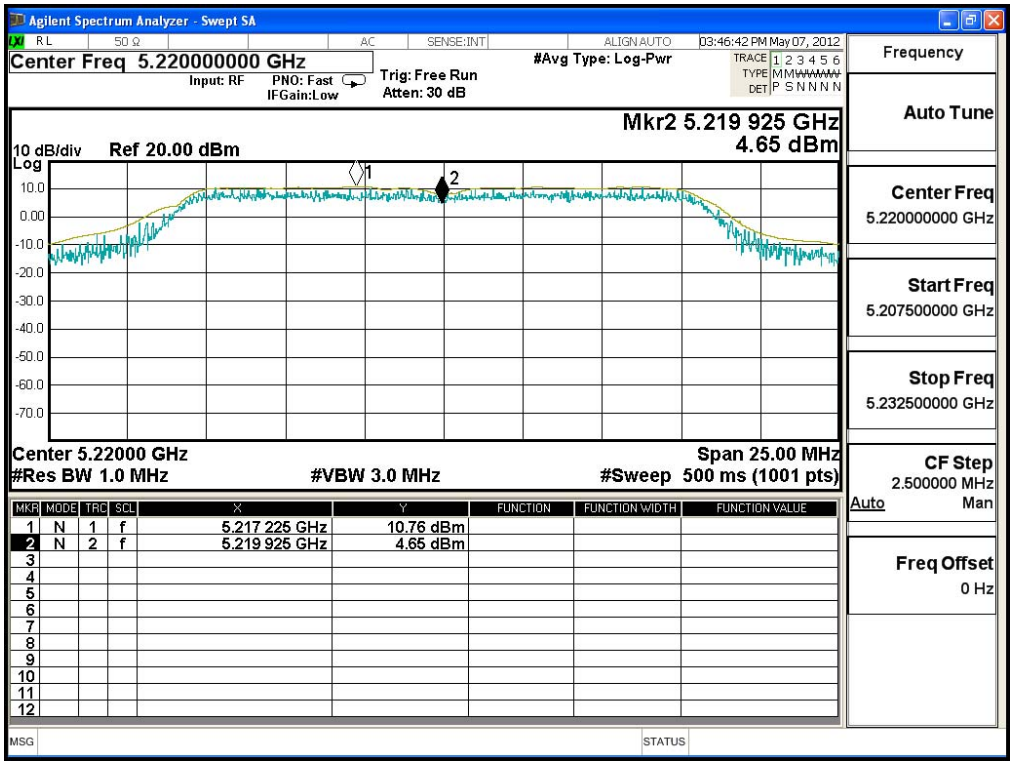
Product : 802.11 a/b/g/n RTL8192DU Module
Test Item : Peak Excursion
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	5.920	<13	Pass
44	5220	6.110	<13	Pass
48	5240	6.340	<13	Pass
52	5260	6.420	<13	Pass
60	5300	7.080	<13	Pass
64	5320	6.130	<13	Pass
100	5500	5.800	<13	Pass
116	5580	6.870	<13	Pass
140	5700	5.550	<13	Pass

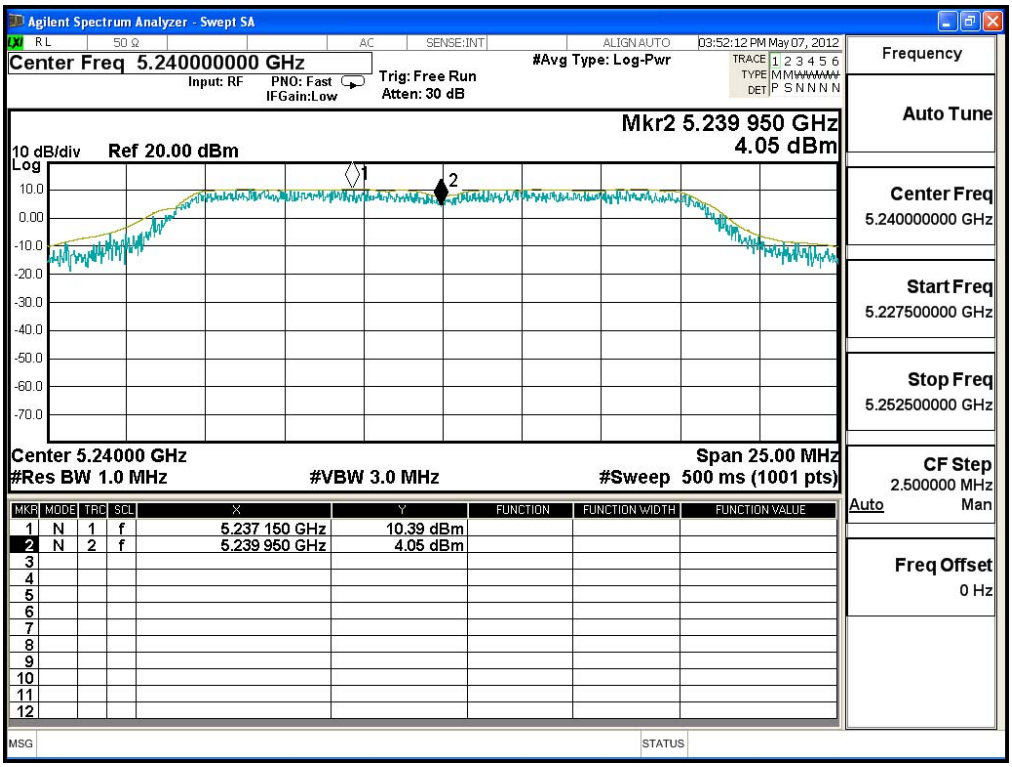
Channel 36:



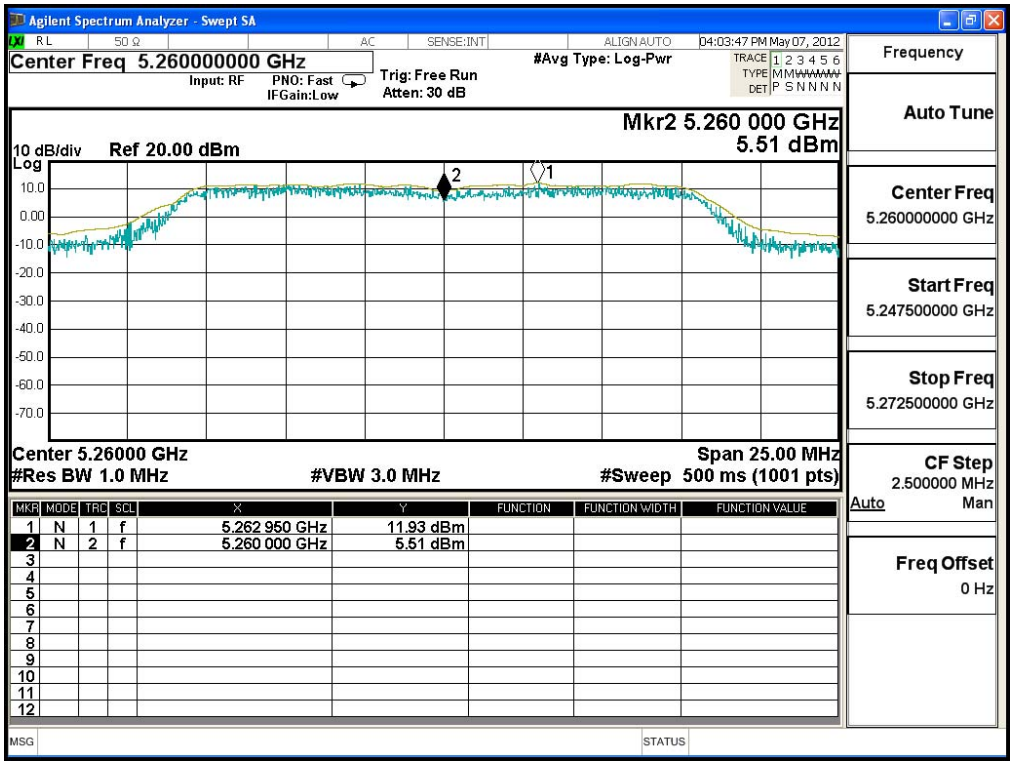
Channel 44:



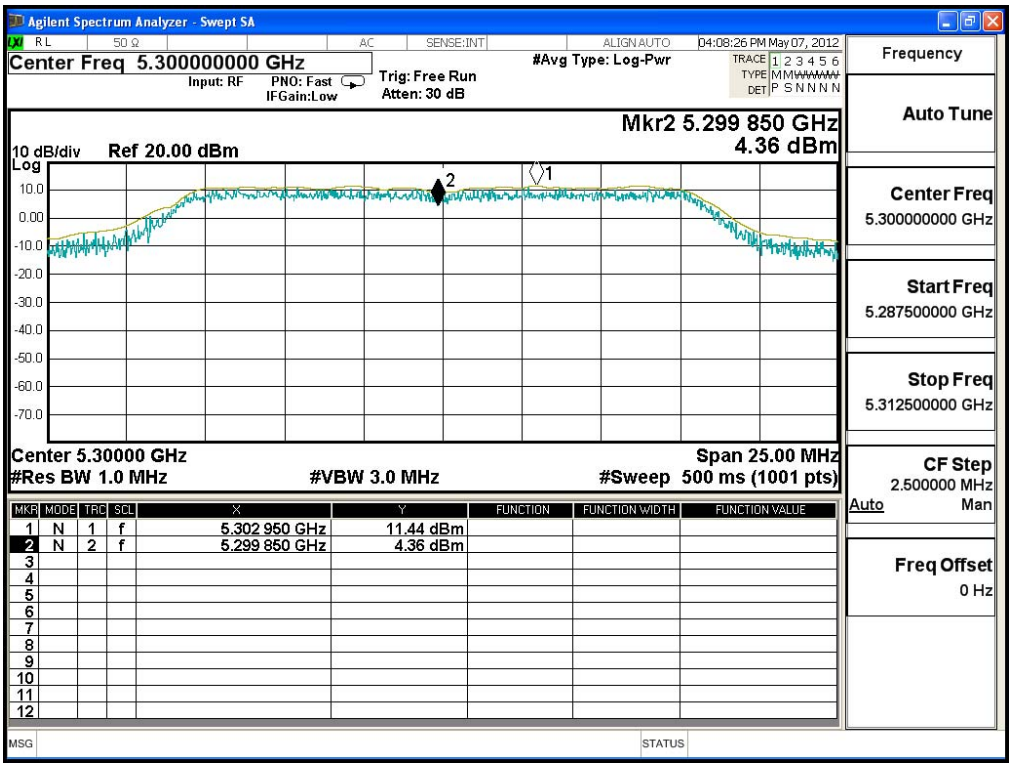
Channel 48:



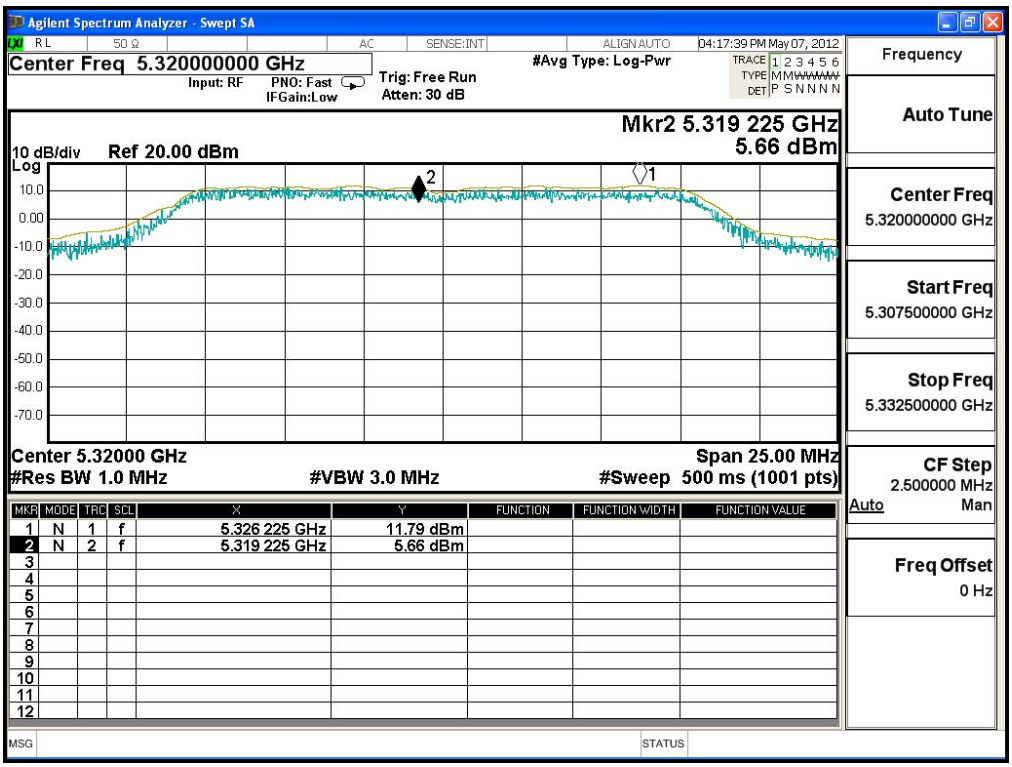
Channel 52:



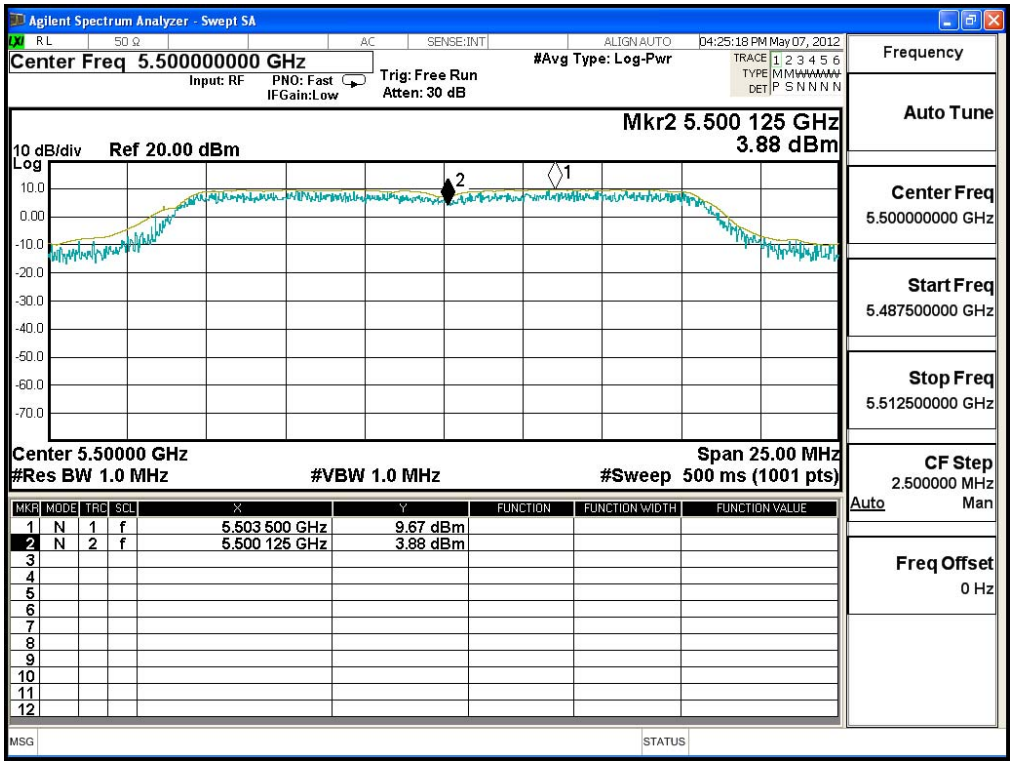
Channel 60:



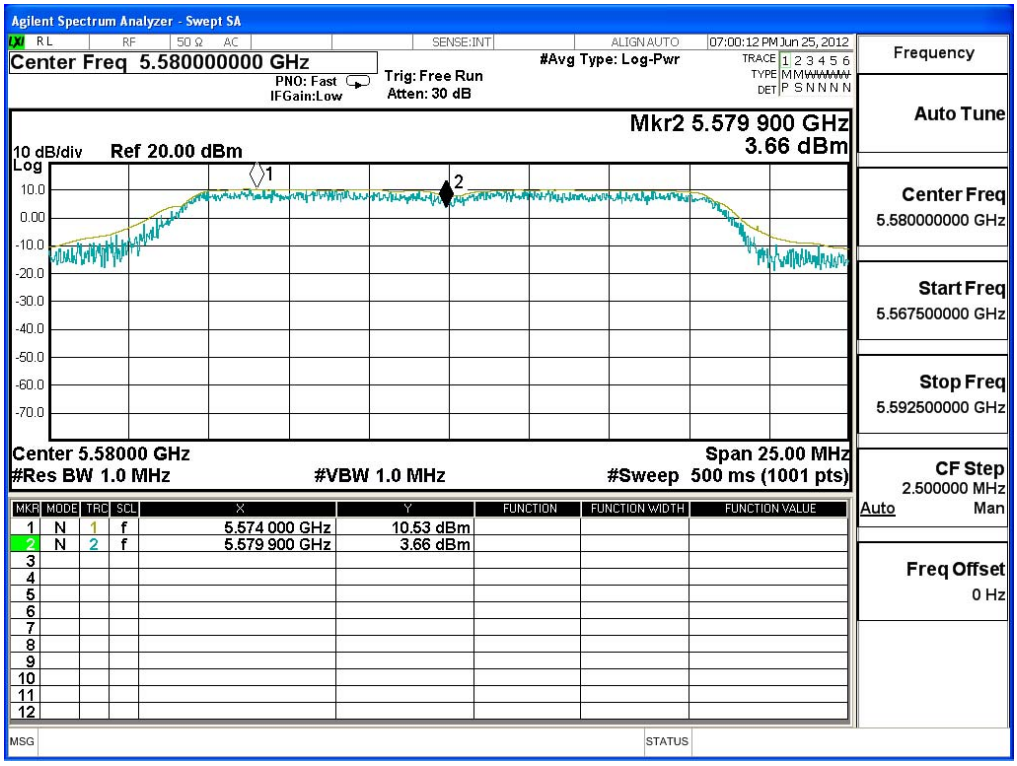
Channel 64:



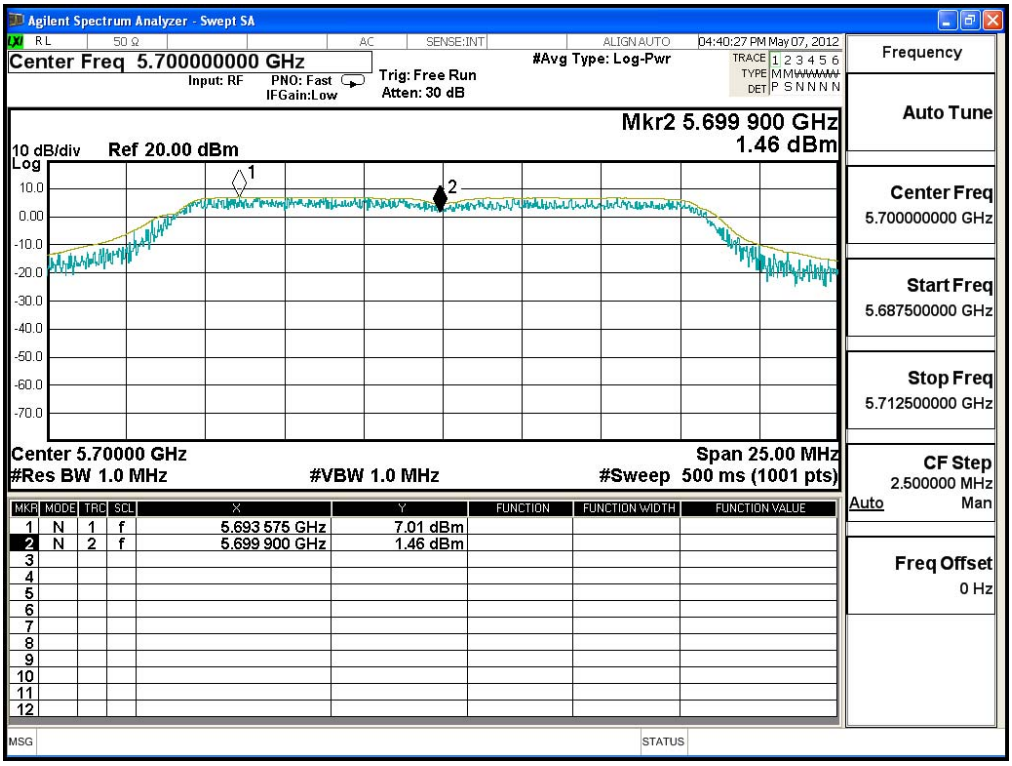
Channel 100:



Channel 116:



Channel 140:

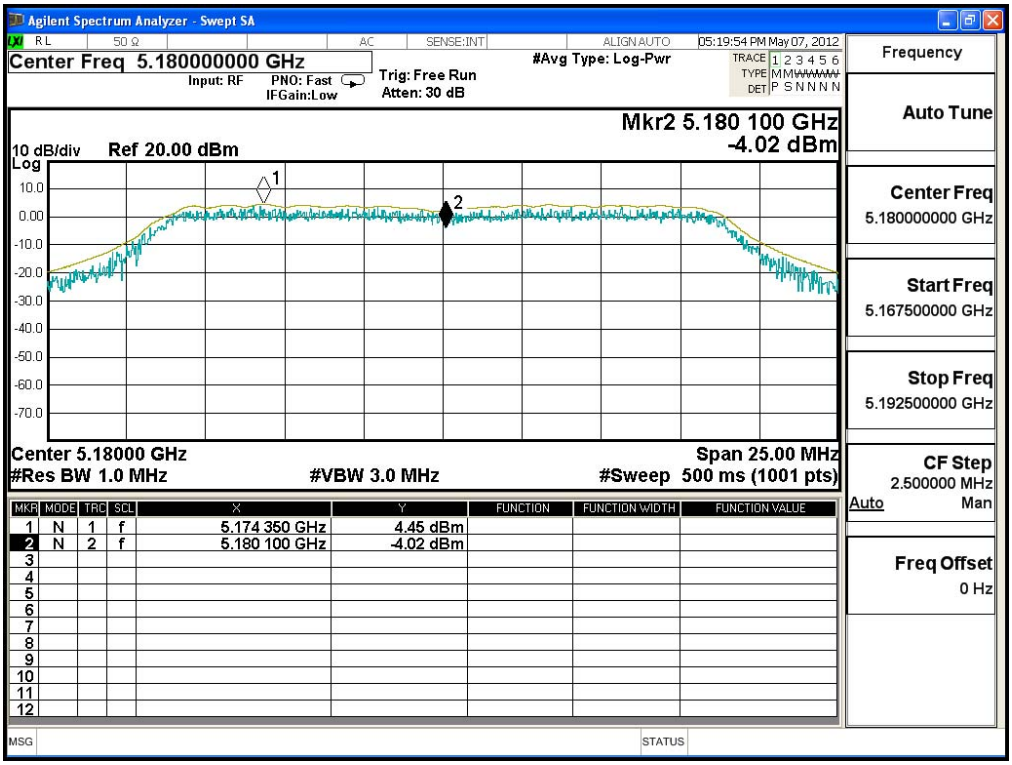


Product : 802.11 a/b/g/n RTL8192DU Module
Test Item : Peak Excursion
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

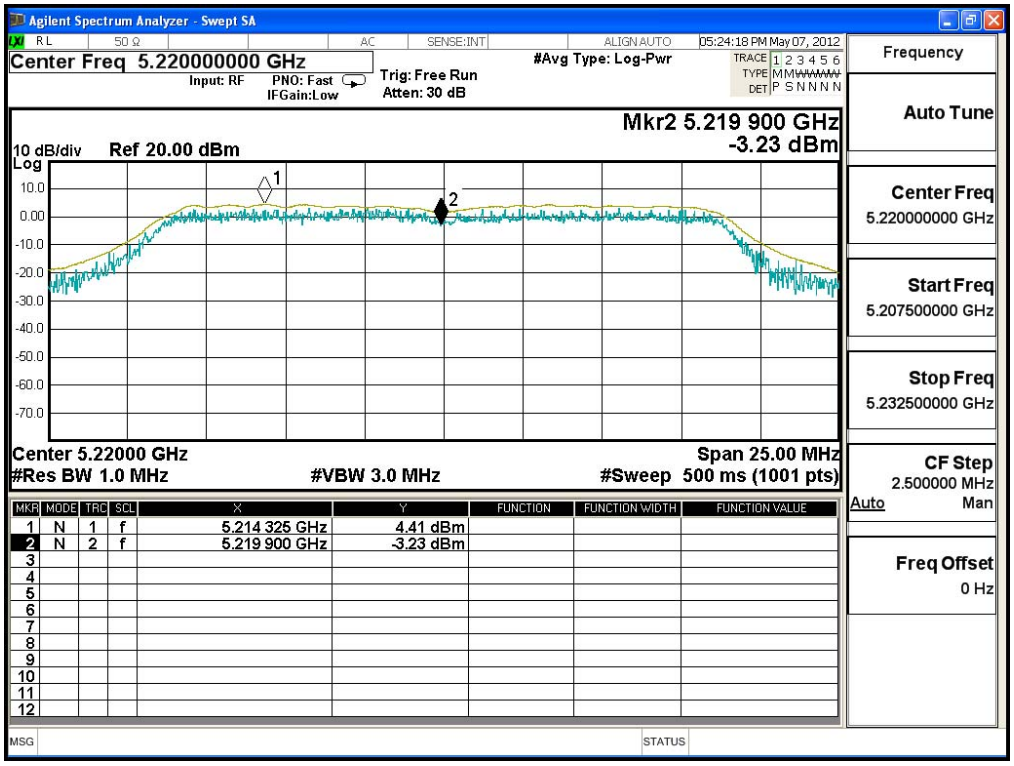
Chain A

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	8.470	<13	Pass
44	5220	7.640	<13	Pass
48	5240	7.670	<13	Pass
52	5260	8.430	<13	Pass
60	5300	7.210	<13	Pass
64	5320	7.550	<13	Pass
100	5500	7.690	<13	Pass
116	5580	8.040	<13	Pass
140	5700	7.420	<13	Pass

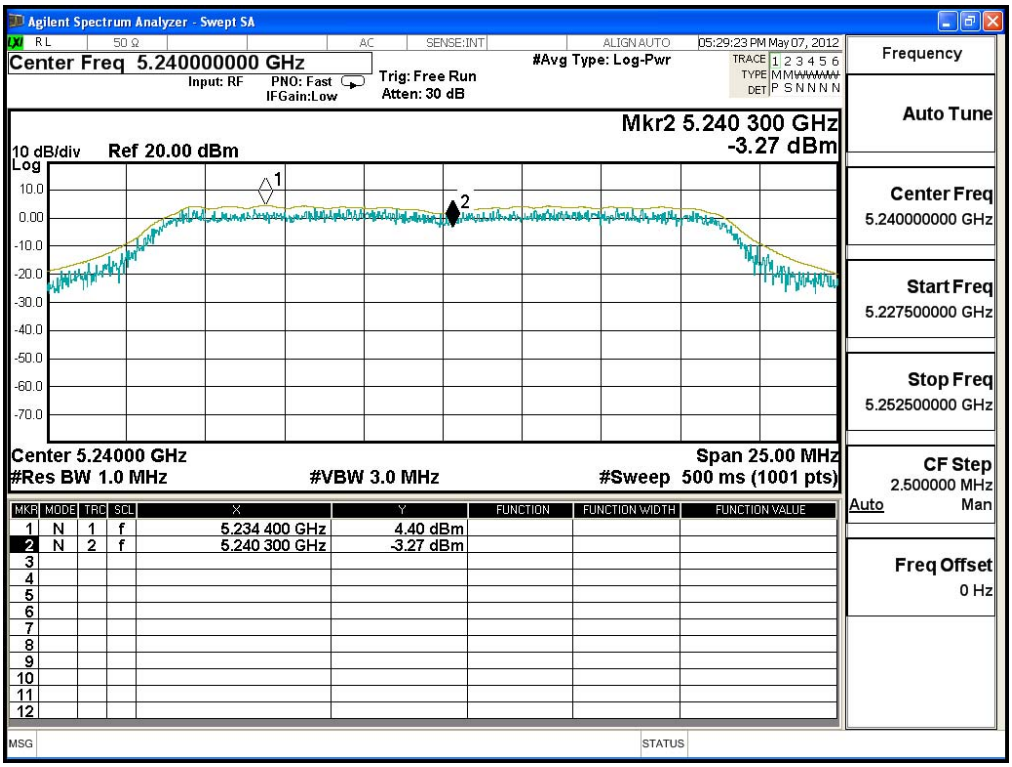
Channel 36:



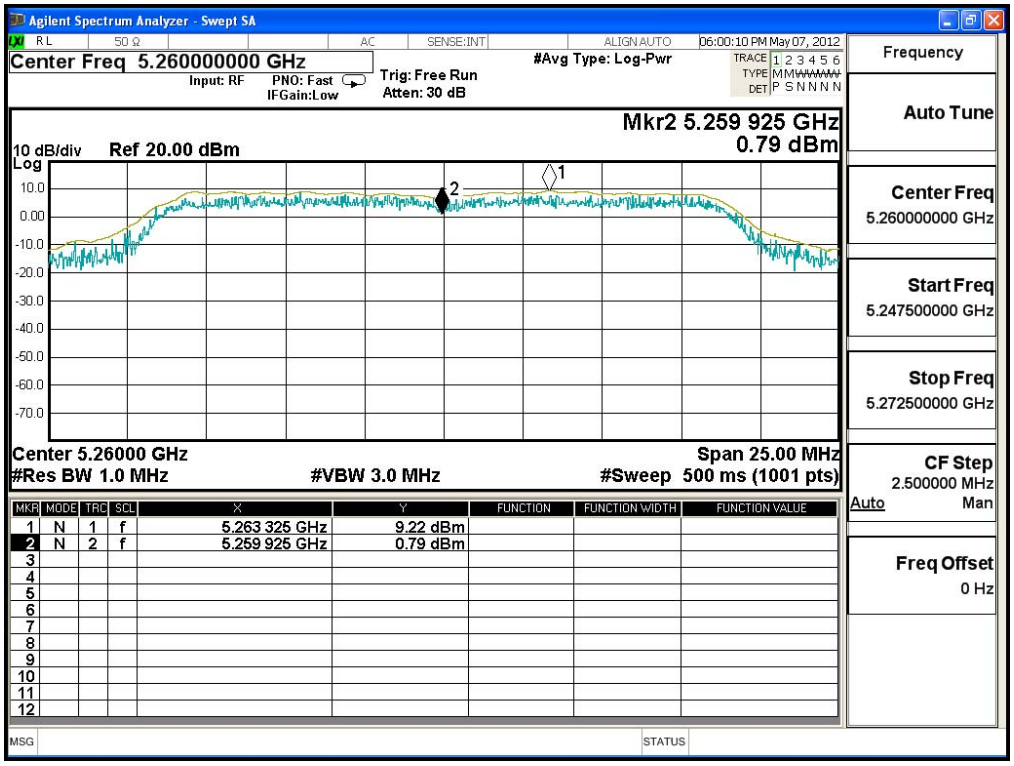
Channel 44:



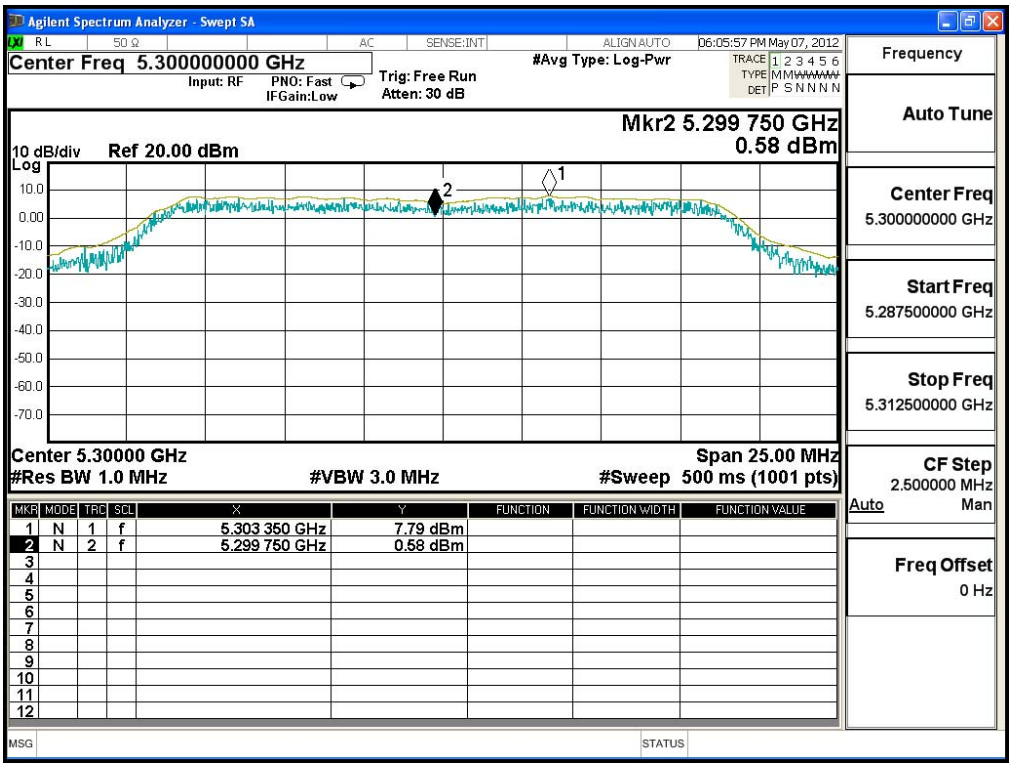
Channel 48:



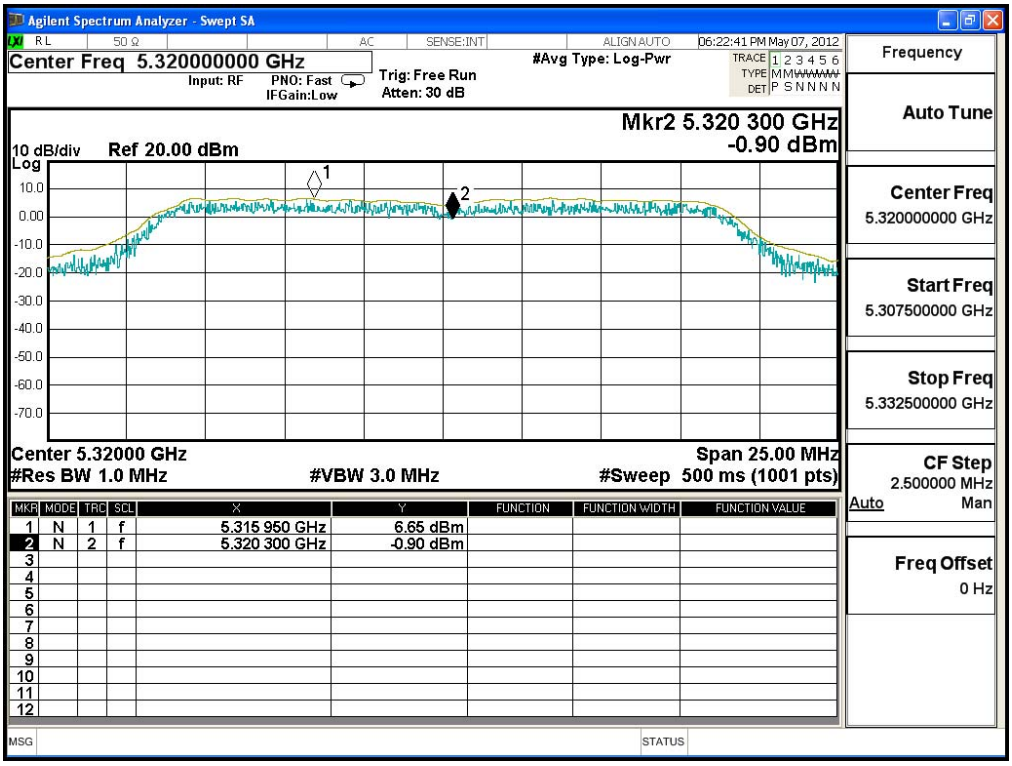
Channel 52:



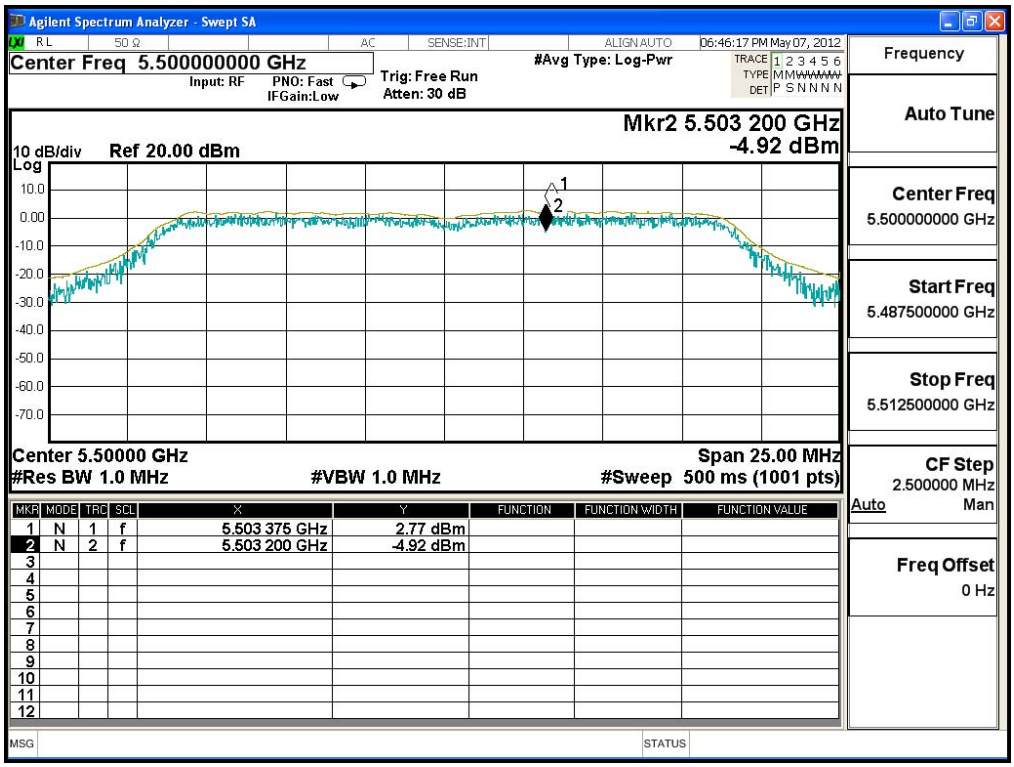
Channel 60:



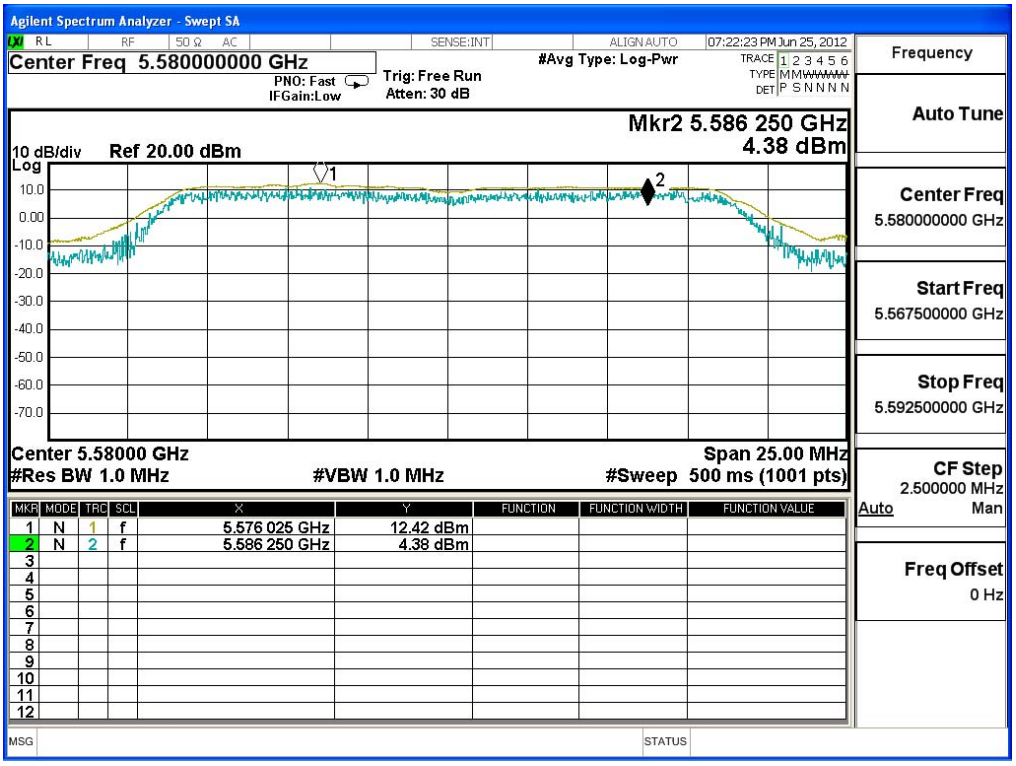
Channel 64:



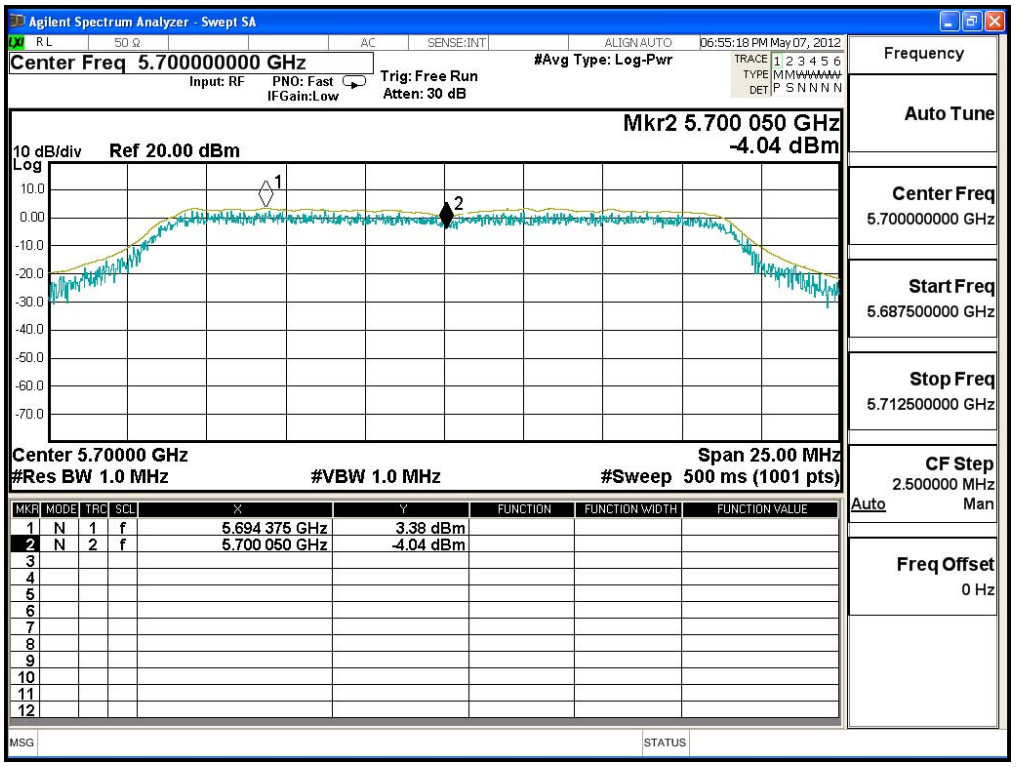
Channel 100:



Channel 116:



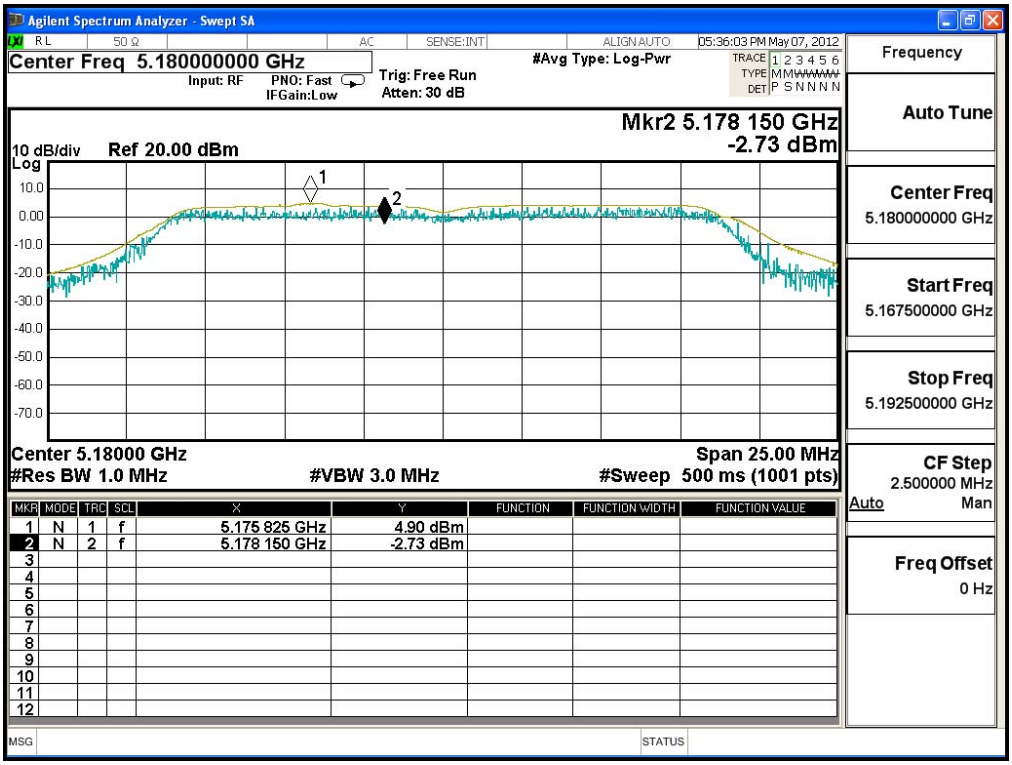
Channel 140:



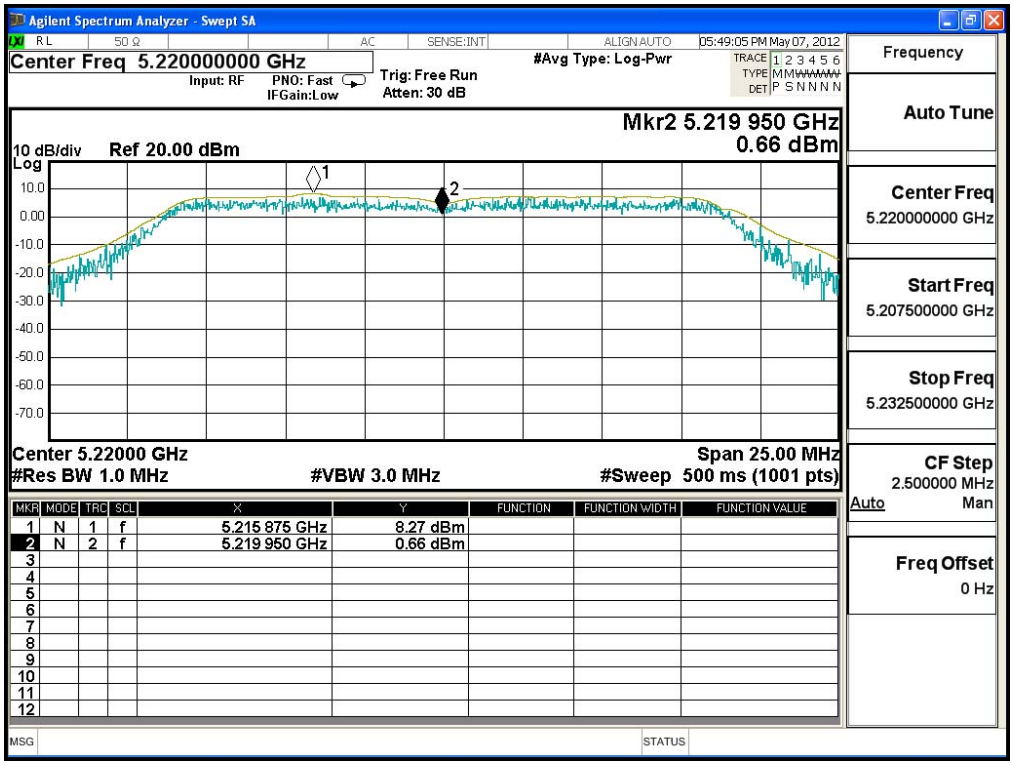
Chain B

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	7.630	<13	Pass
44	5220	7.610	<13	Pass
48	5240	6.790	<13	Pass
52	5260	6.880	<13	Pass
60	5300	7.740	<13	Pass
64	5320	7.320	<13	Pass
100	5500	7.070	<13	Pass
116	5580	7.320	<13	Pass
140	5700	7.420	<13	Pass

Channel 36:



Channel 44:



Channel 48: