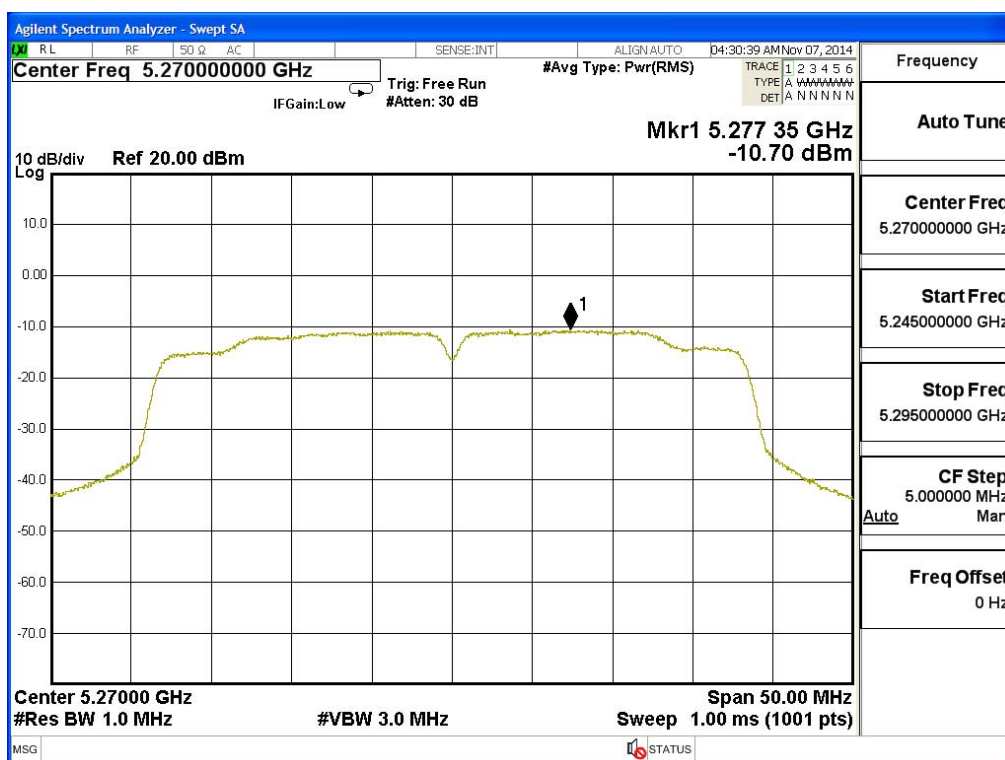
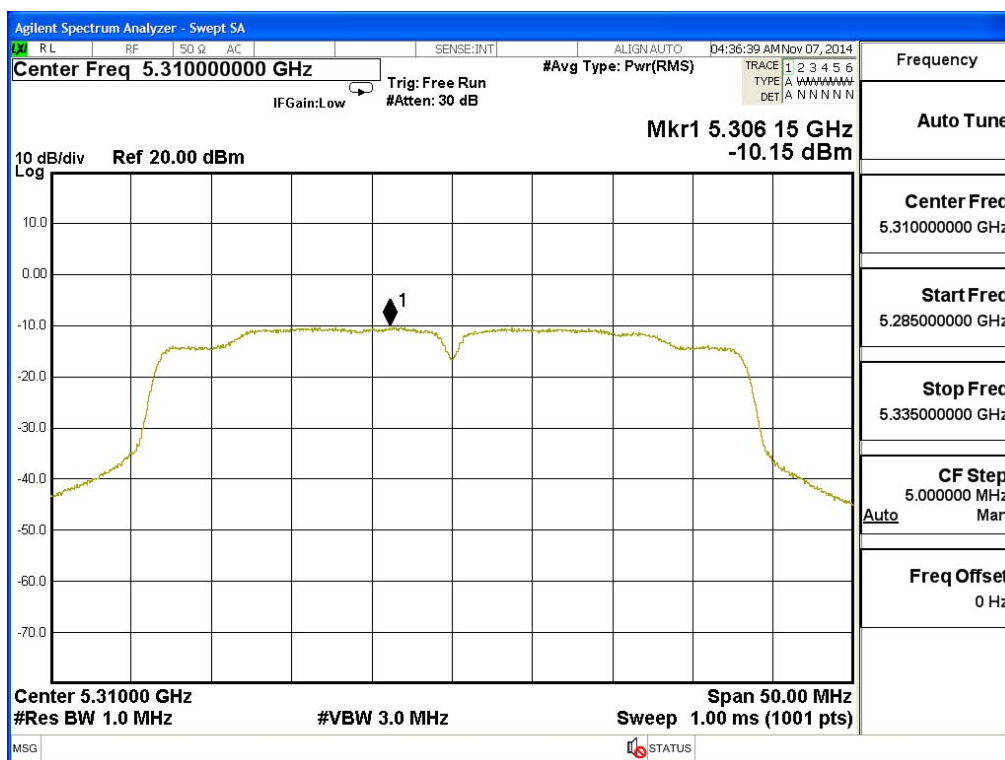


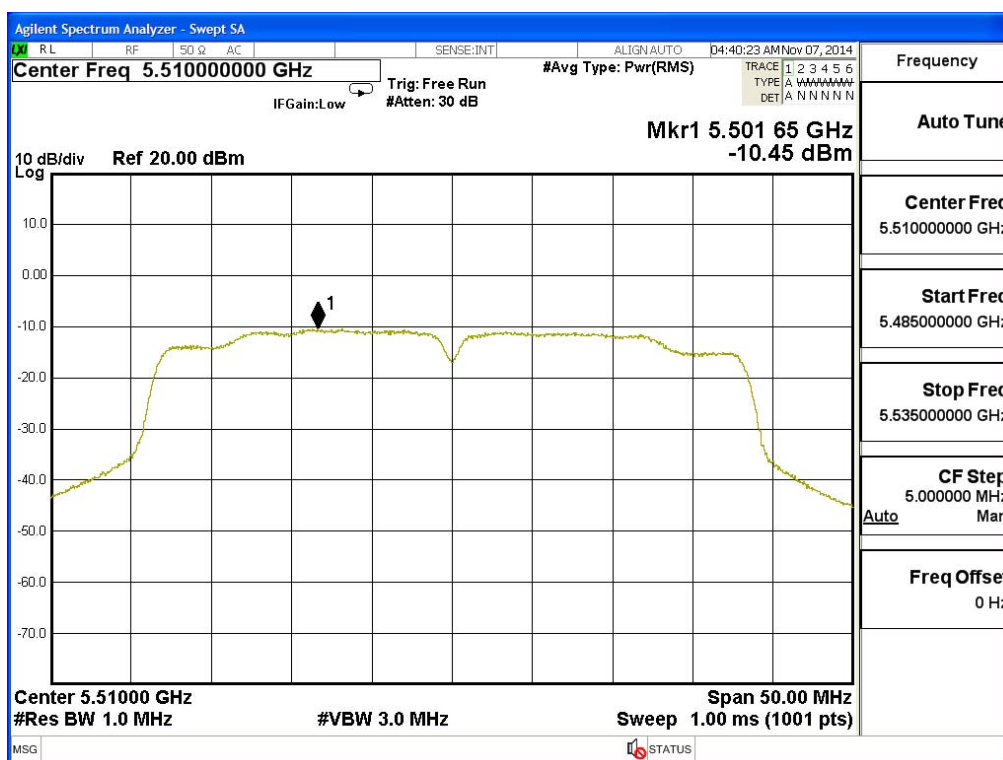
Channel 54 – Chain A



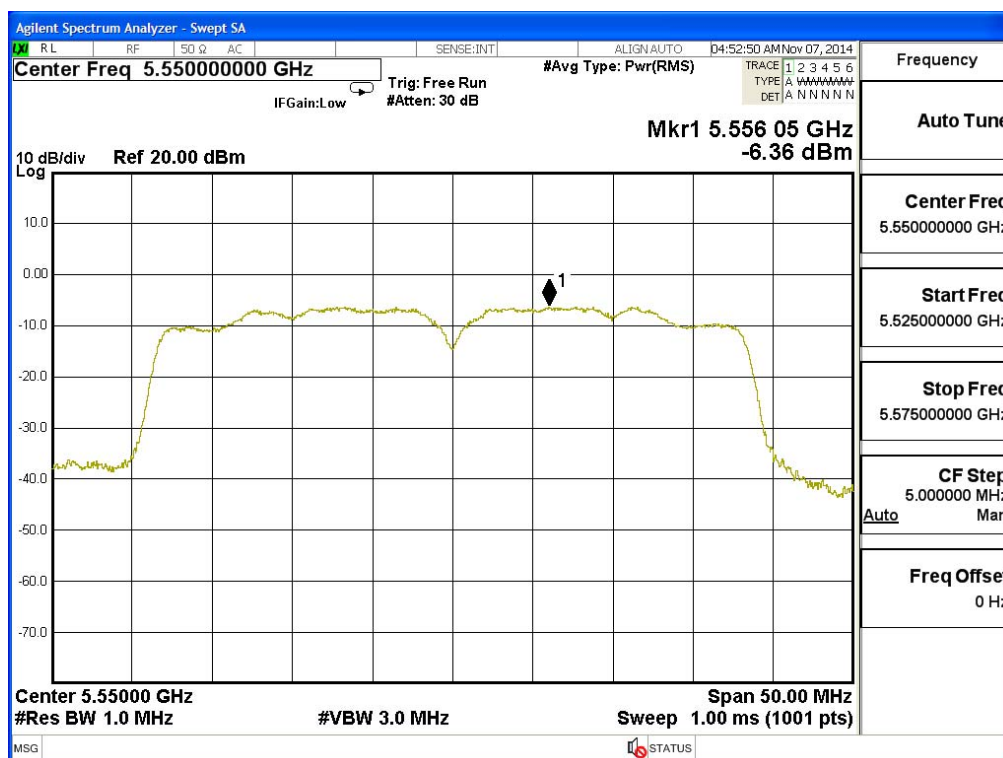
Channel 62 – Chain A



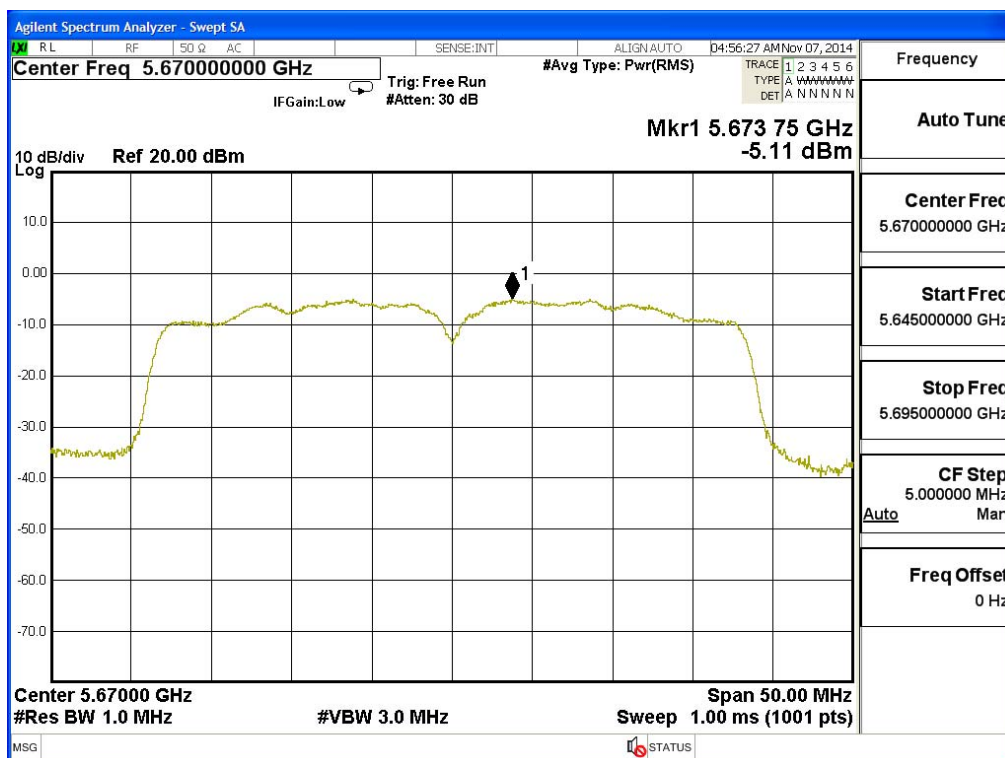
Channel 102 – Chain A



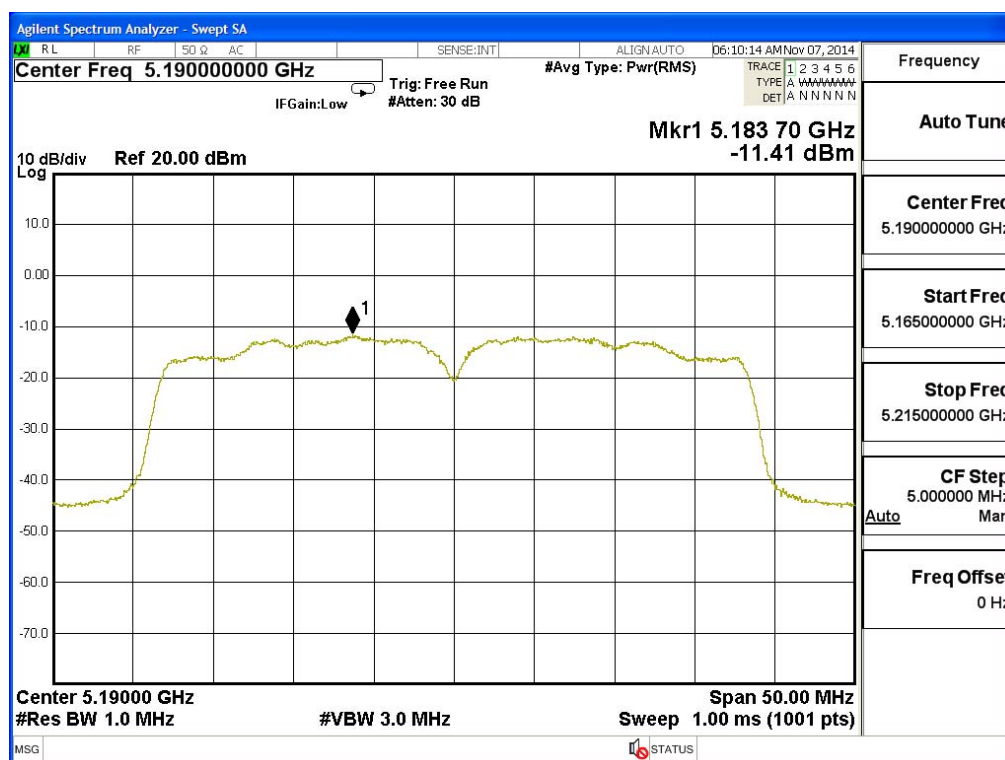
Channel 110 – Chain A



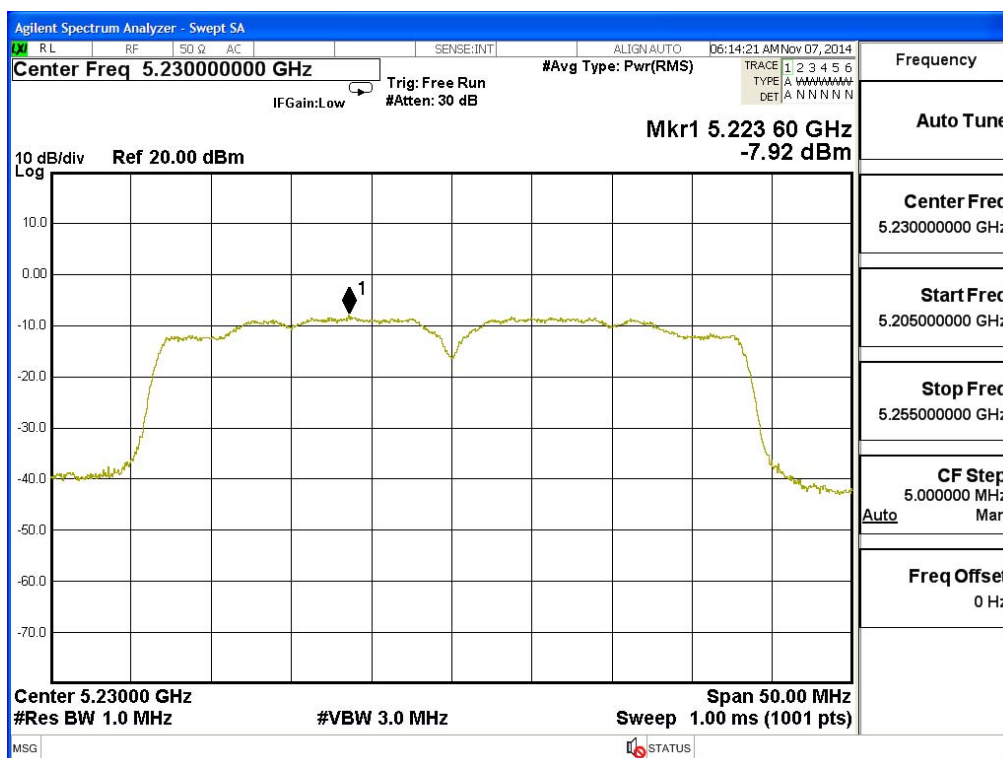
Channel 134 – Chain A



Channel 38 – Chain B



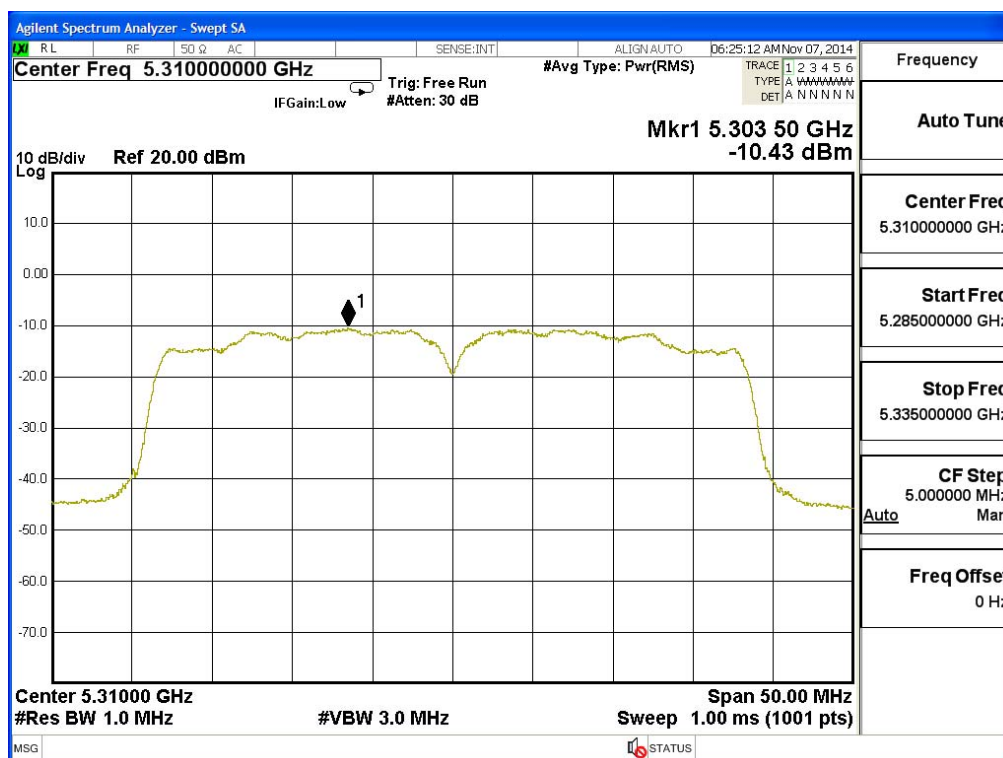
Channel 46 – Chain B



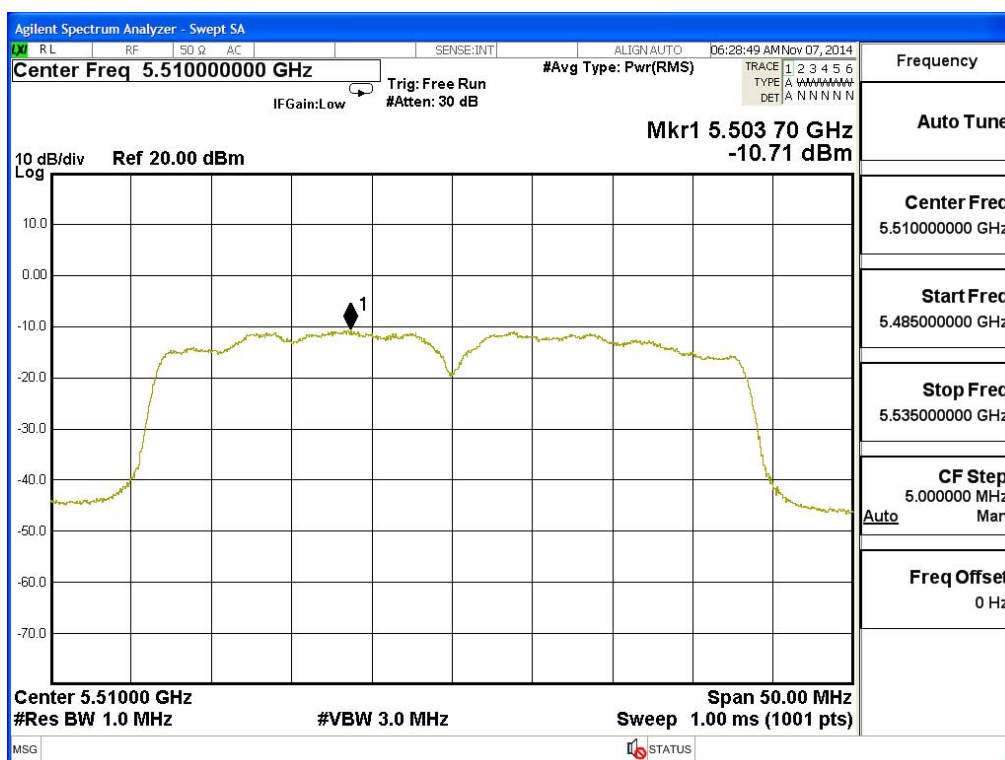
Channel 54 – Chain B



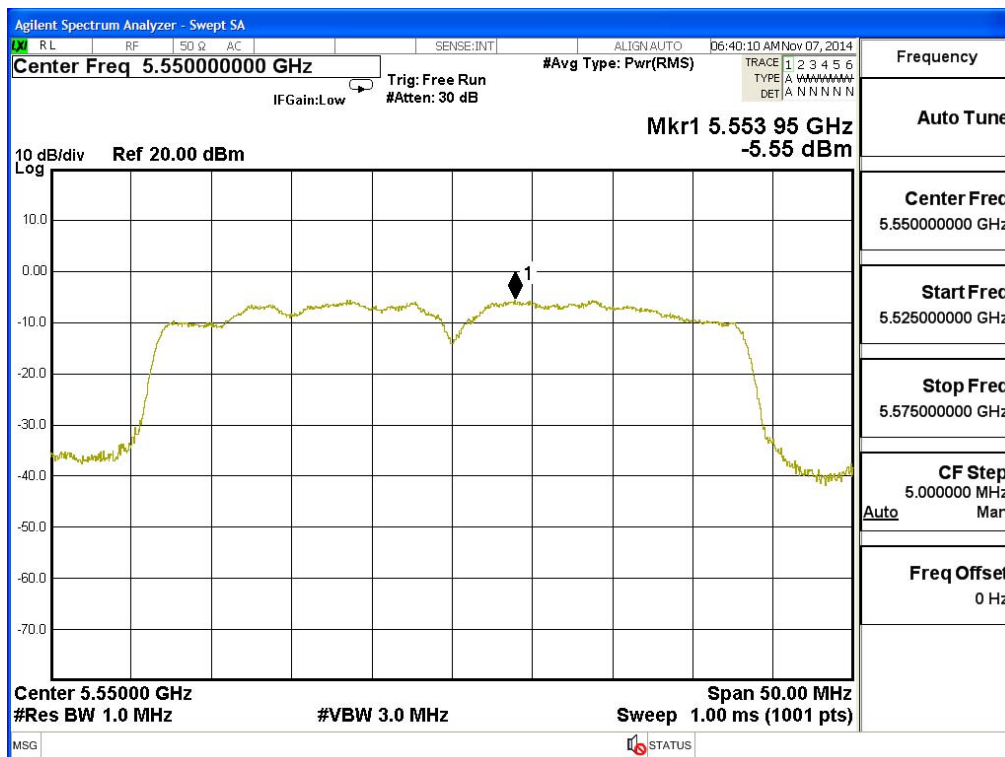
Channel 62 – Chain B



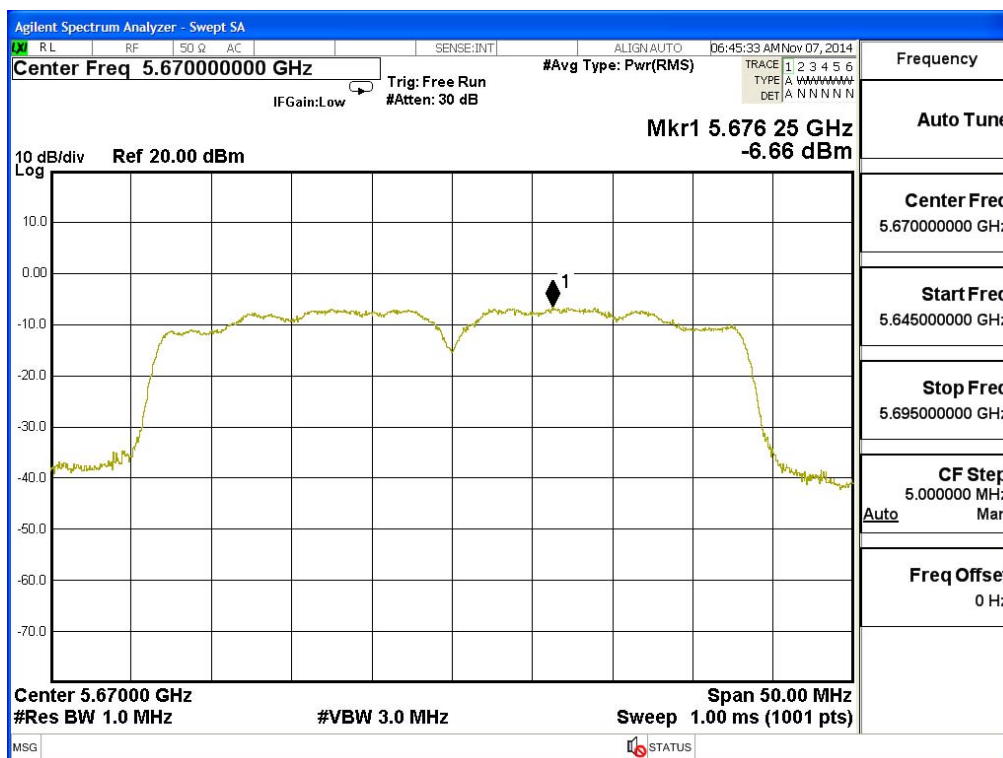
Channel 102 – Chain B



Channel 110 – Chain B



Channel 134 – Chain B



Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PSD/MHz (dBm)	Required Limit (dBm)	Result
144	5720(Band3)	A	-4.090	-1.080	<11	Pass
		B	-4.660	-1.650	<11	Pass
144	5720(Band4)	A	-4.360	-1.350	<11	Pass
		B	-4.710	-1.700	<11	Pass

Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 12:44:01 AM Nov 20, 2014

Center Freq 5.72000000 GHz #Avg Type: RMS PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB TRACE 1 2 3 4 5 6 TYPE A H H H H H H H DET A N N N N N

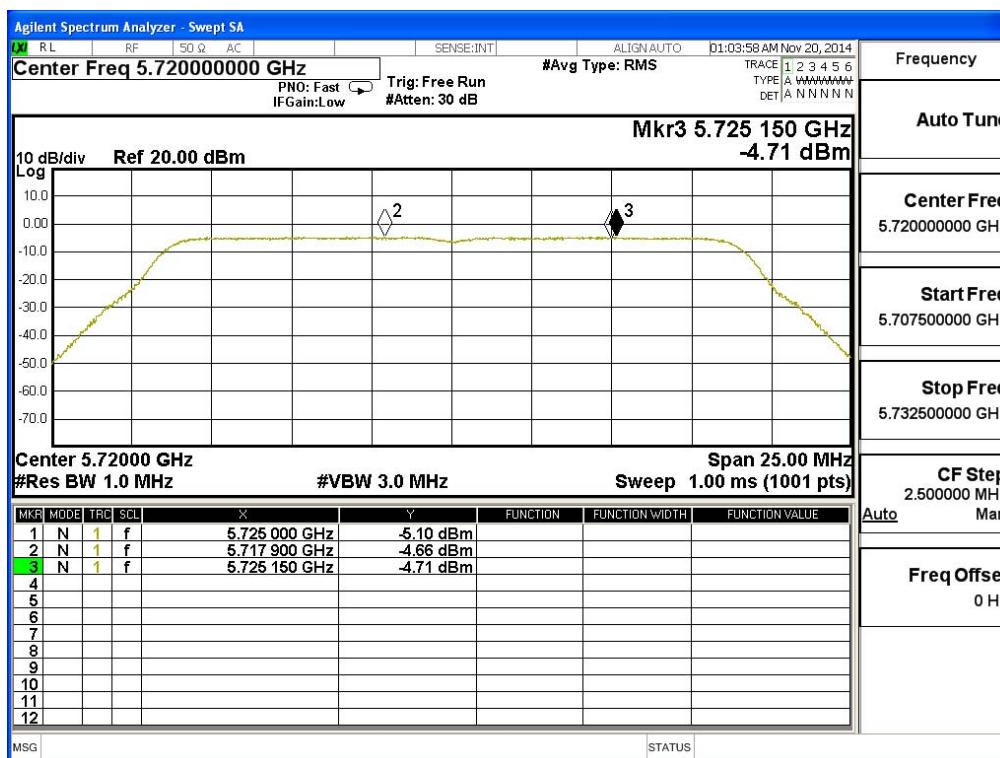
10 dB/div Ref 20.00 dBm Mkr3 5.725 975 GHz -4.36 dBm

Center 5.72000 GHz Span 25.00 MHz
 #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.00 ms (1001 pts)

MkR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.725 000 GHz	-4.93 dBm			
2	N	1	f	5.722 550 GHz	-4.09 dBm			
3	N	1	f	5.725 975 GHz	-4.36 dBm			
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency Auto Tune Center Freq 5.72000000 GHz Start Freq 5.707500000 GHz Stop Freq 5.732500000 GHz CF Step 2.500000 MHz Freq Offset 0 Hz

Channel 144 – Chain B



Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSSD/MHz (dBm)1	Required Limit (dBm)	Result
142	5710(Band3)	A	-7.030	-4.020	<11	Pass
		B	-7.690	-4.680	<11	Pass
142	5710(Band4)	A	-8.250	-5.240	<11	Pass
		B	-8.520	-5.510	<11	Pass

Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN AUTO 01:12:59 AM Nov 20, 2014

Center Freq 5.71000000 GHz **#Avg Type: RMS** TRACE 1 2 3 4 5 6
 PNO: Fast Trig: Free Run TYPE A H A H A H A H
 IF Gain: Low #Atten: 30 dB DET A N N N N N

10 dB/div **Ref 20.00 dBm** **Mkr3 5.725 35 GHz**
Log **-8.25 dBm**

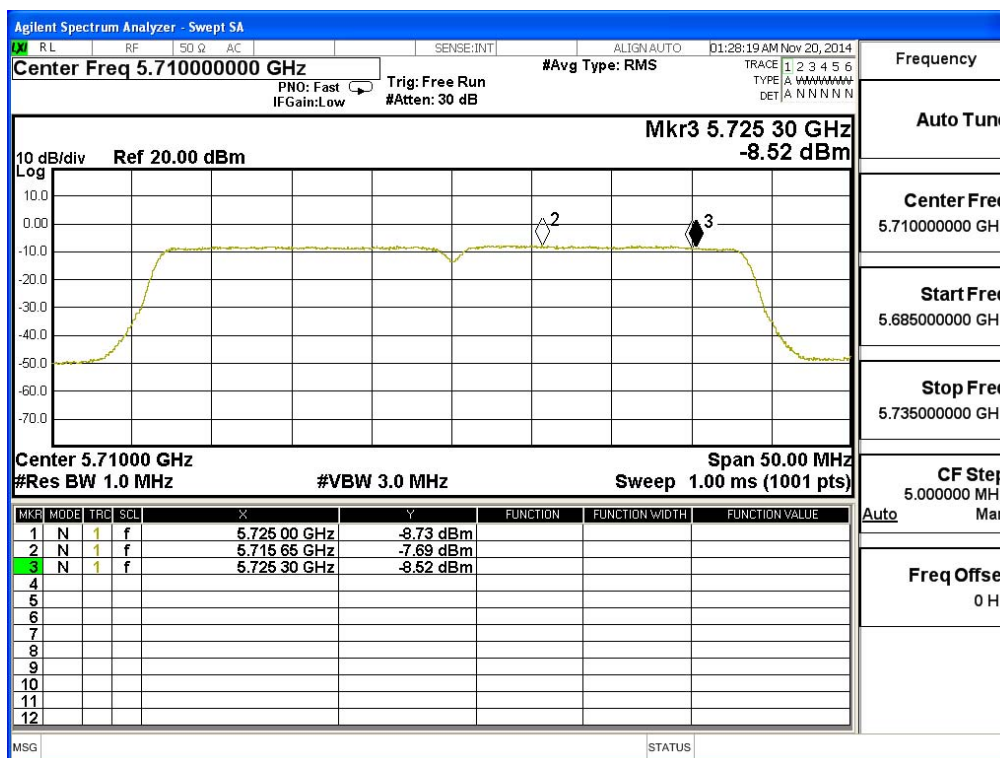
Center 5.71000 GHz **Span 50.00 MHz**
#Res BW 1.0 MHz **#VBW 3.0 MHz** **Sweep 1.00 ms (1001 pts)**

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.725 00 GHz	-8.69 dBm			
2	N	1	f	5.715 20 GHz	-7.03 dBm			
3	N	1	f	5.725 35 GHz	-8.25 dBm			
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency
Auto Tune
Center Freq
 5.71000000 GHz
Start Freq
 5.68500000 GHz
Stop Freq
 5.73500000 GHz
CF Step
 5.000000 MHz
Auto **Man**
Freq Offset
 0 Hz

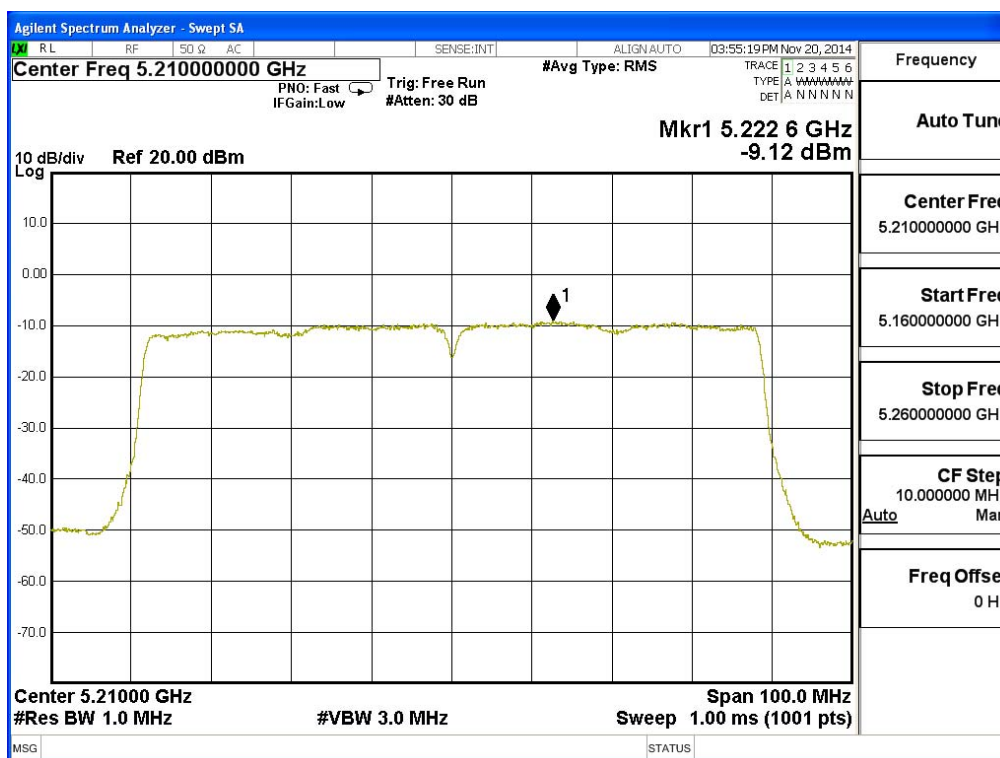
Channel 142 – Chain B



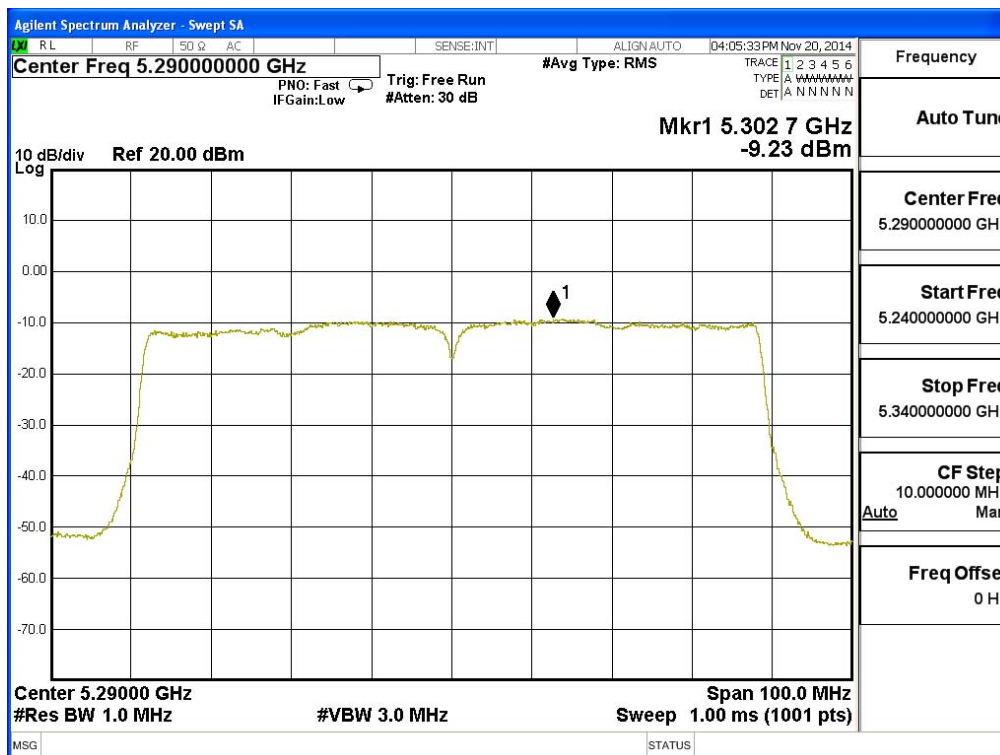
Product : FIELDBOOK
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-65Mbps)

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSS/MHz (dBm)1	Required Limit (dBm)	Result
42	5210	A	-9.120	-6.110	<4	Pass
		B	-10.180	-7.170	<4	Pass
58	5290	A	-9.230	-6.220	<4	Pass
		B	-10.950	-7.940	<4	Pass
106	5530	A	-9.660	-6.650	<11	Pass
		B	-9.690	-6.680	<11	Pass
138	5690 (Band3)	A	-9.540	-6.530	<11	Pass
		B	-9.830	-6.820	<11	Pass
138	5690 (Band4)	A	-11.070	-8.060	<17	Pass
		B	-10.750	-7.740	<17	Pass

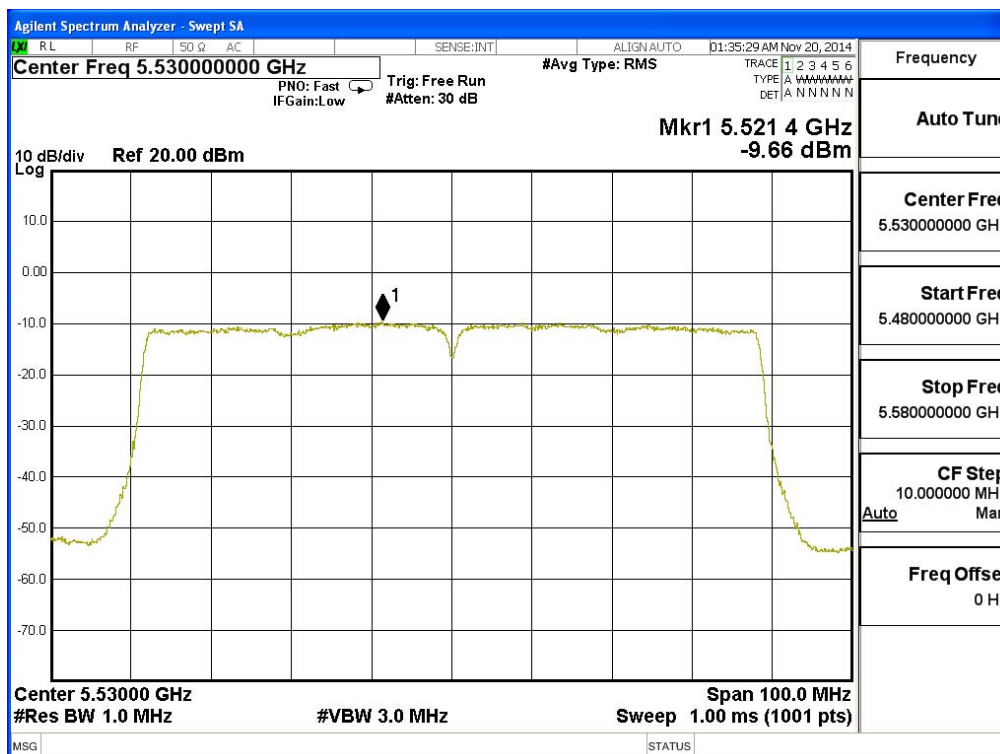
Channel 42 – Chain A



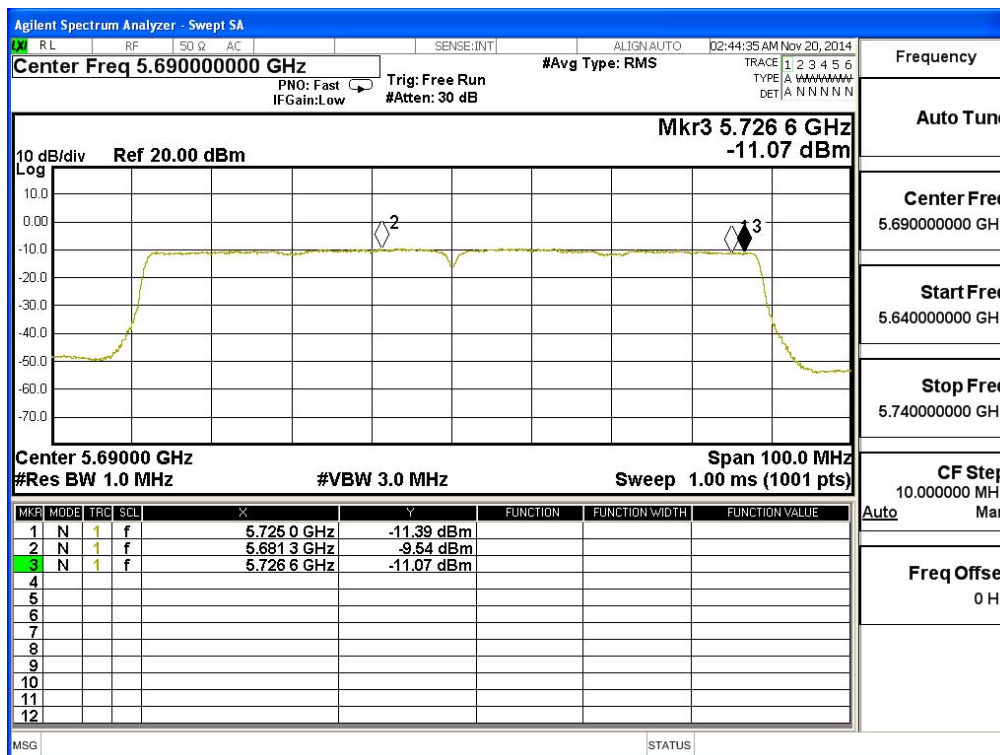
Channel 58 – Chain A



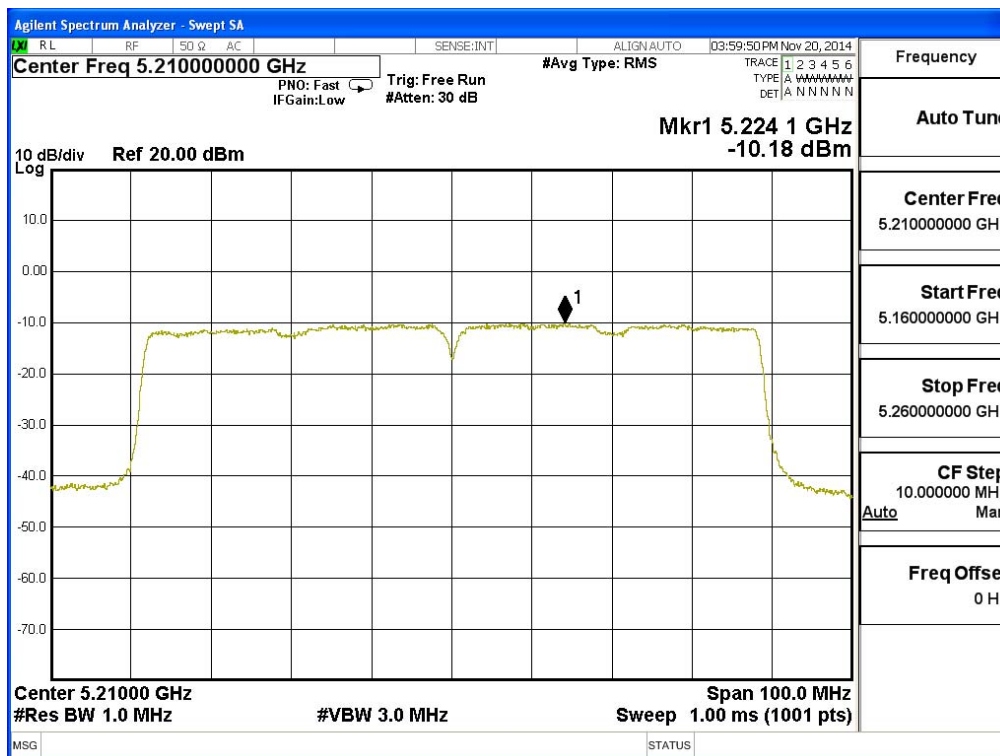
Channel 106 – Chain A



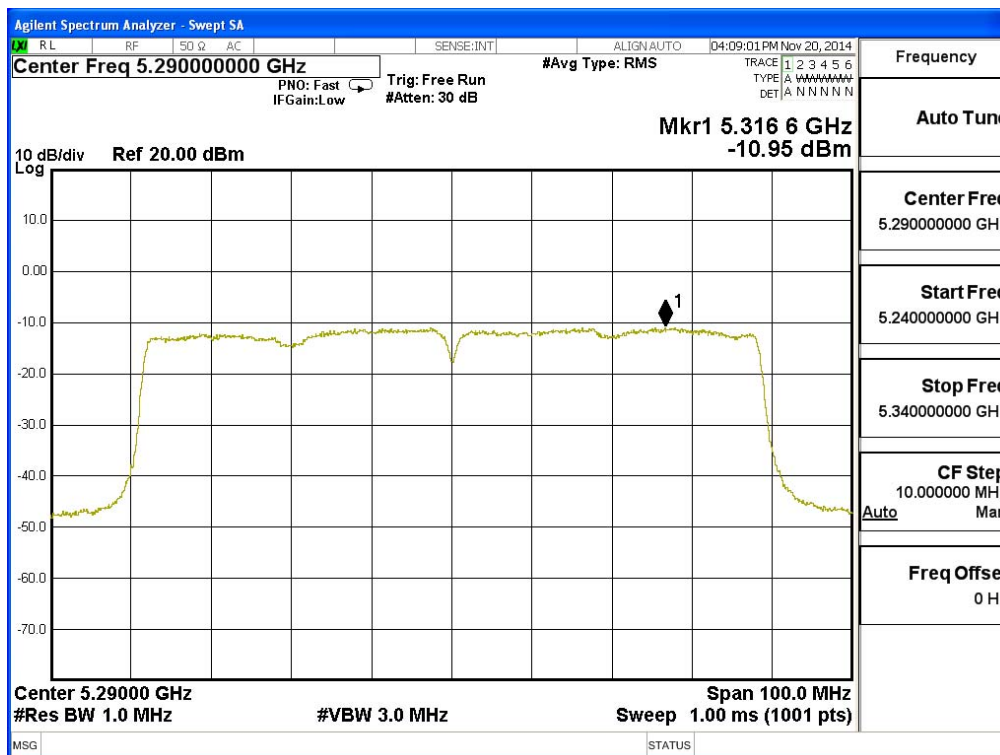
Channel 138 – Chain A



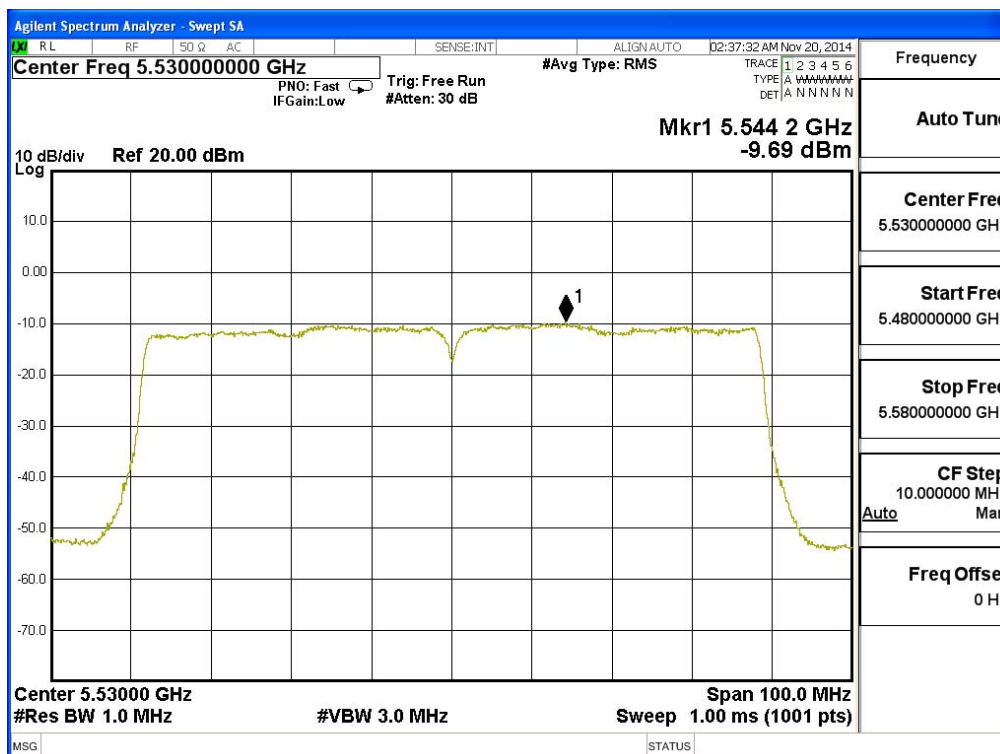
Channel 42 – Chain B



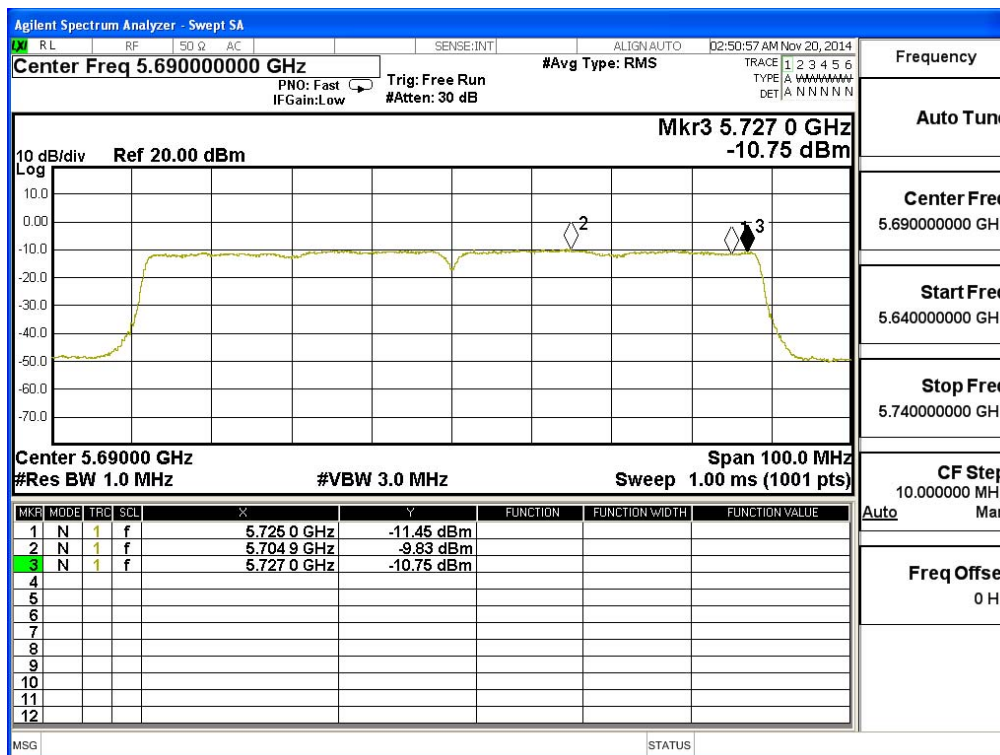
Channel 58 – Chain B



Channel 106 – Chain B



Channel 138 – Chain B



5. Peak Excursion

5.1. Test Equipment

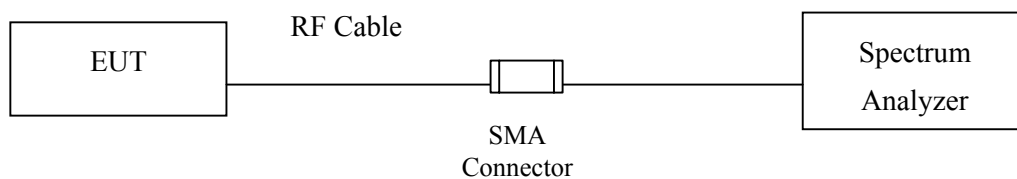
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2014

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 using 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 C63.10, 2009; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

Step 1: Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

Step 2: Find the maximum of the peak-max-hold spectrum.

(Set RBW = 1 MHz, VBW $\geq$ 3 MHz, Detector = peak, Trace mode = max-hold, Allow the sweeps to continue until the trace stabilizes, Use the peak search function to find the peak of the spectrum.)

Step 3: Use the procedure found under KDB-789033 F) to measure the PPSD.

Step 4: Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

5.5. Uncertainty

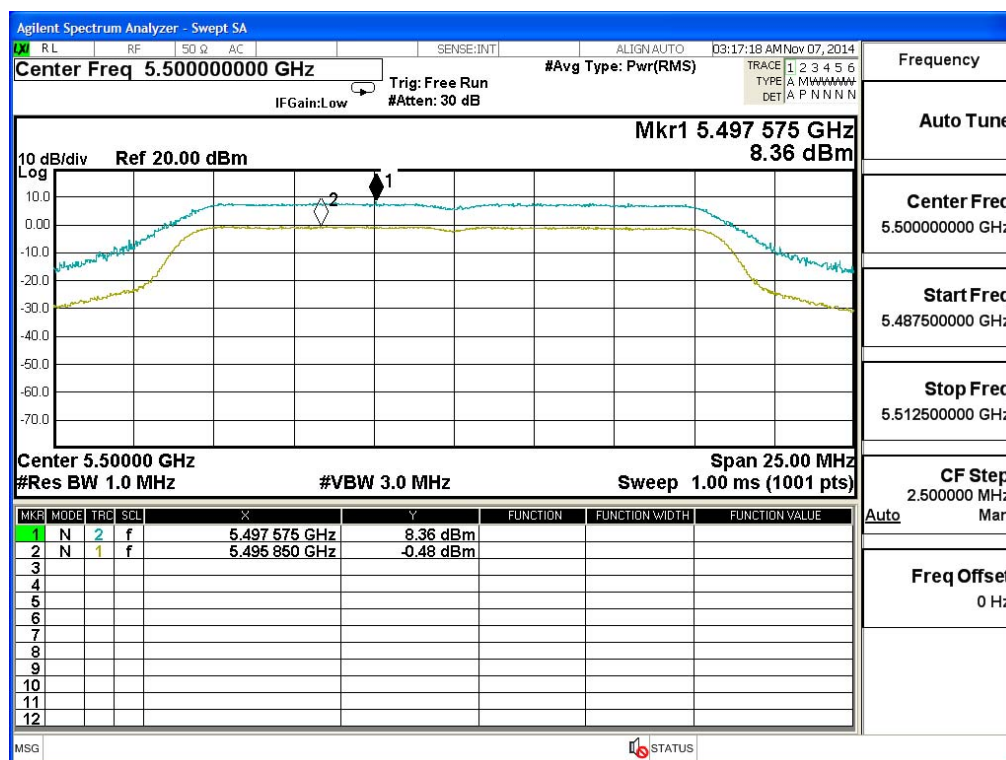
± 1.27 dB

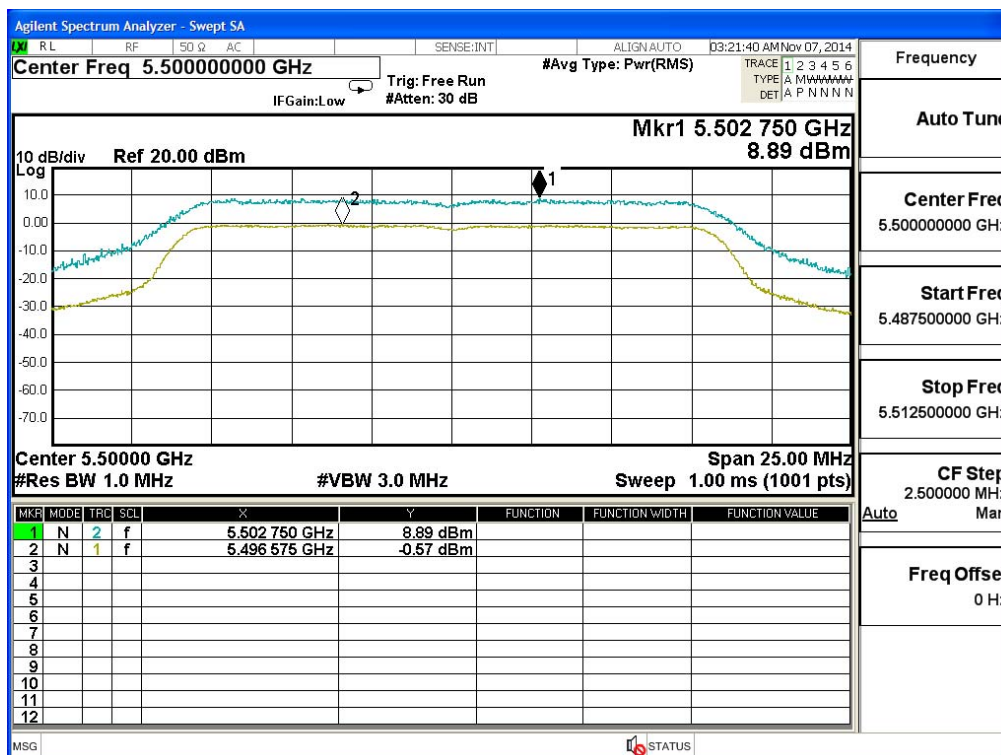
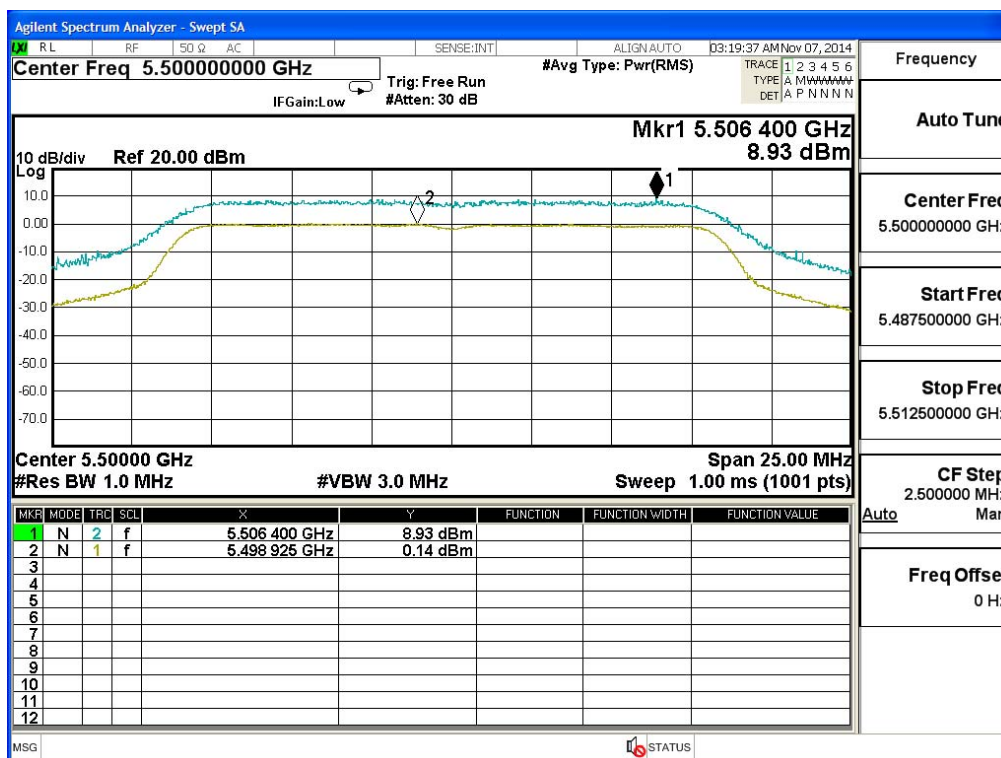
5.6. Test Result of Peak Excursion

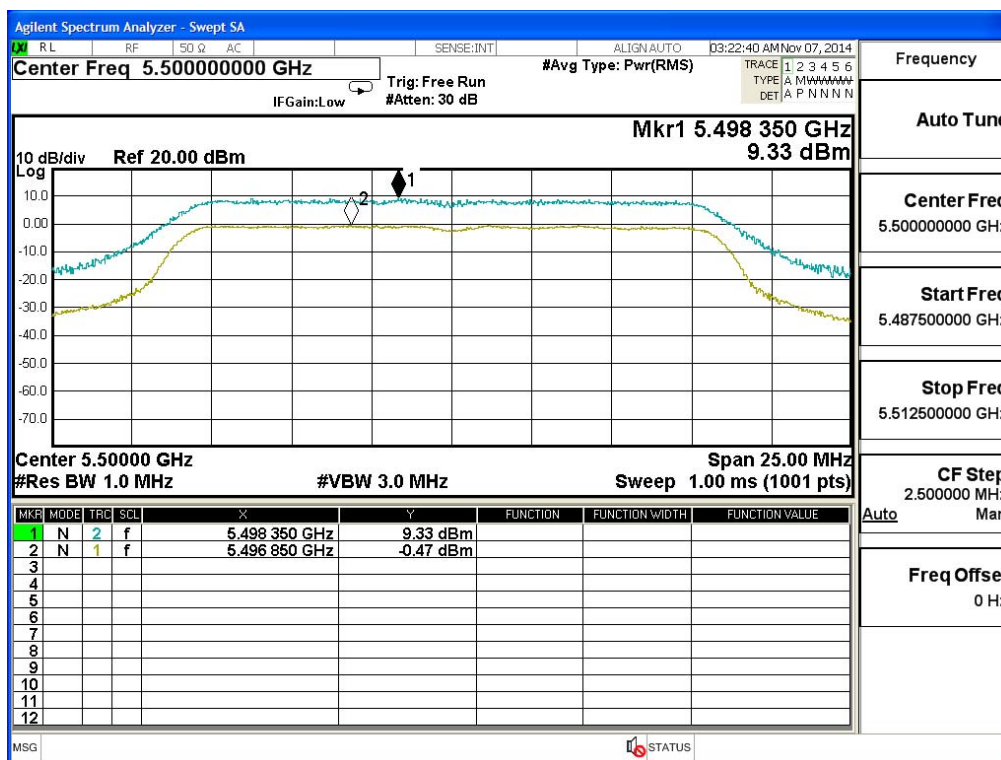
Product : FIELDBOOK
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	8.840	<13	Pass
		MCS (2)	8.790	<13	Pass
		MCS (4)	9.460	<13	Pass
		MCS (7)	9.800	<13	Pass

Channel 100:





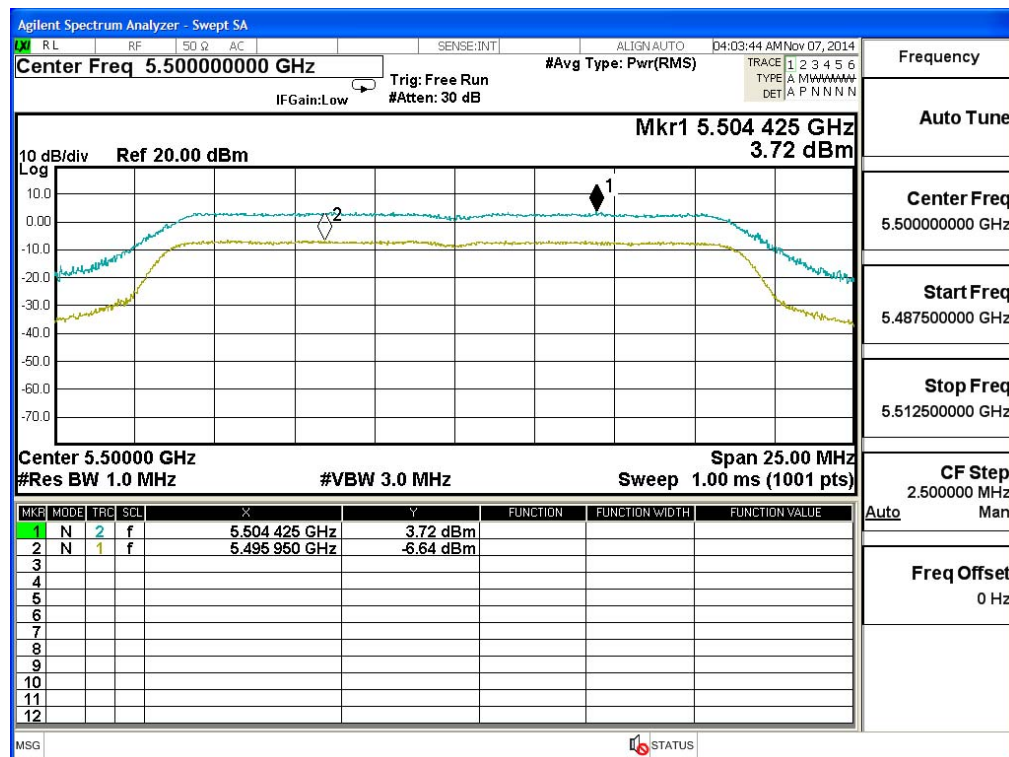


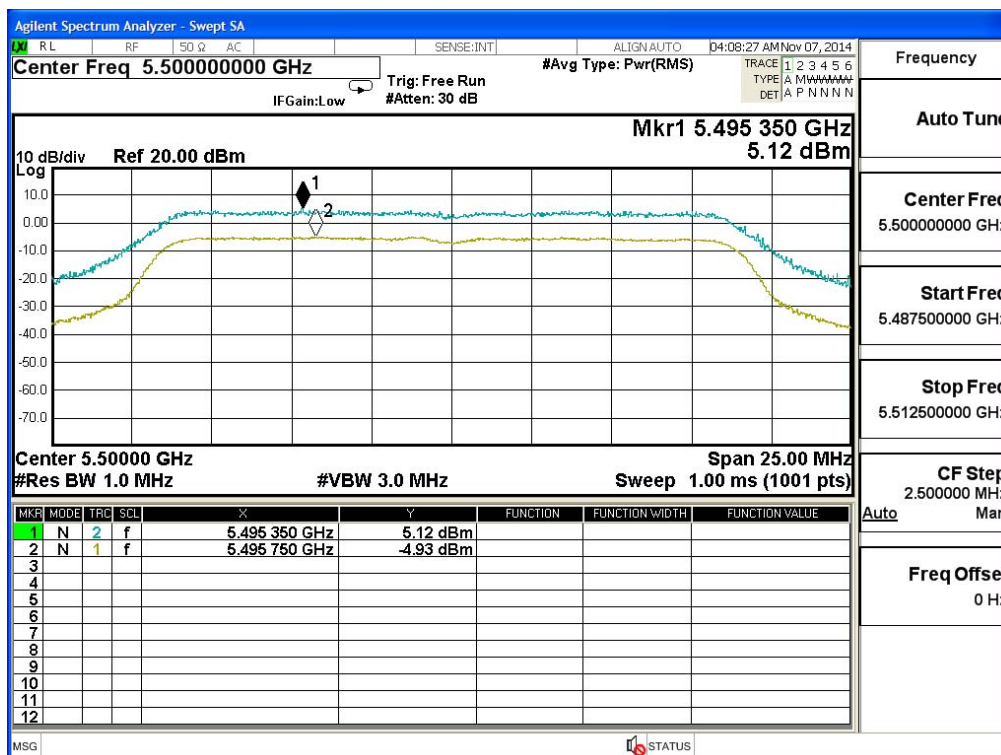
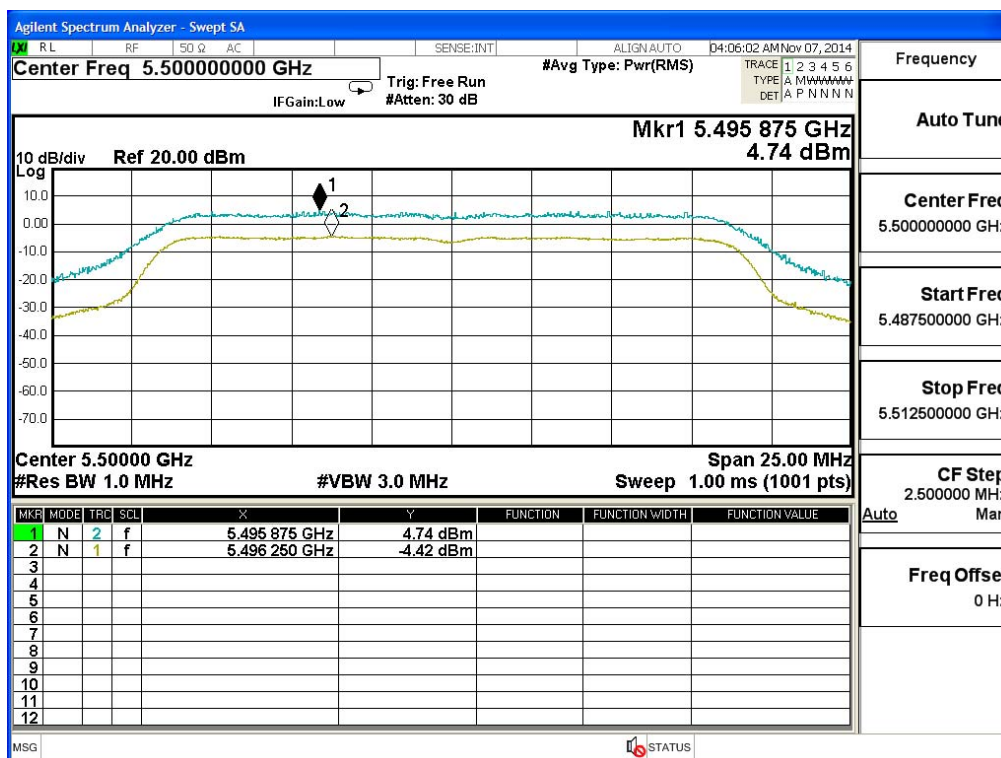
Product : FIELDBOOK
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

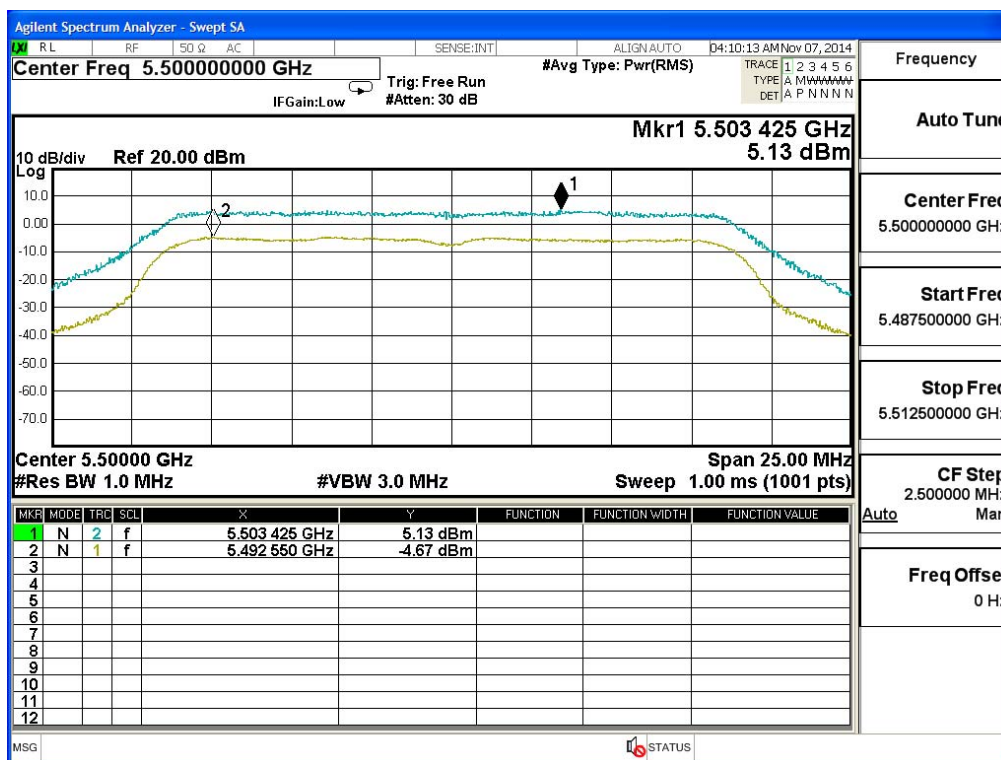
Chain A

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	10.360	<13	Pass
		MCS (2)	9.160	<13	Pass
		MCS (4)	10.050	<13	Pass
		MCS (7)	9.800	<13	Pass

Channel 100:



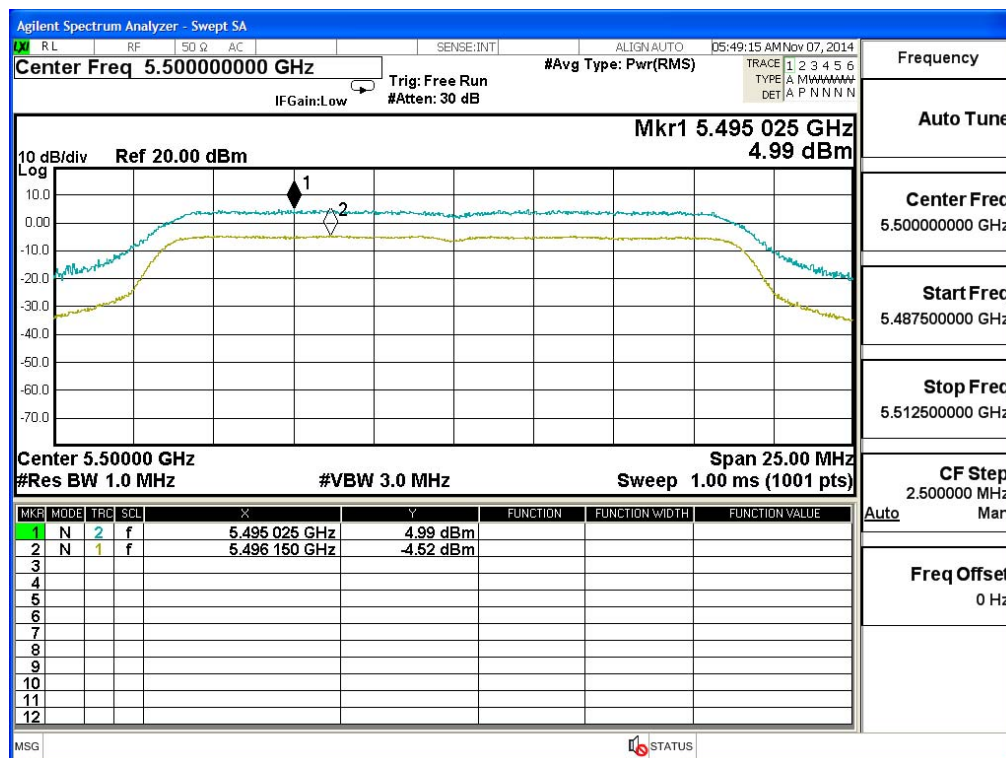


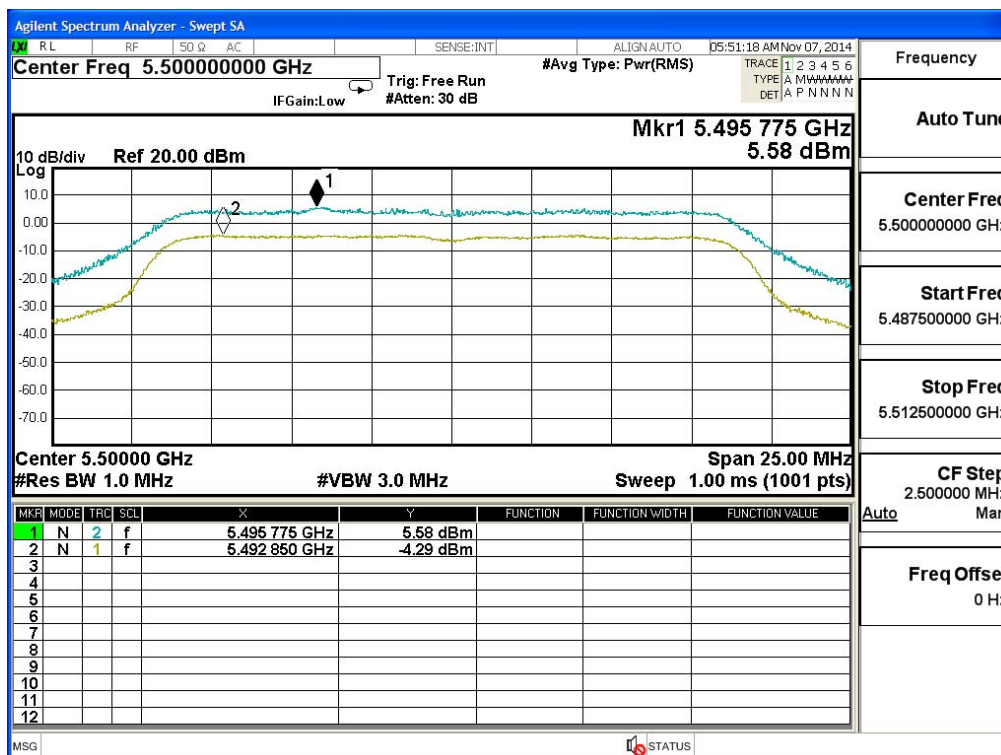
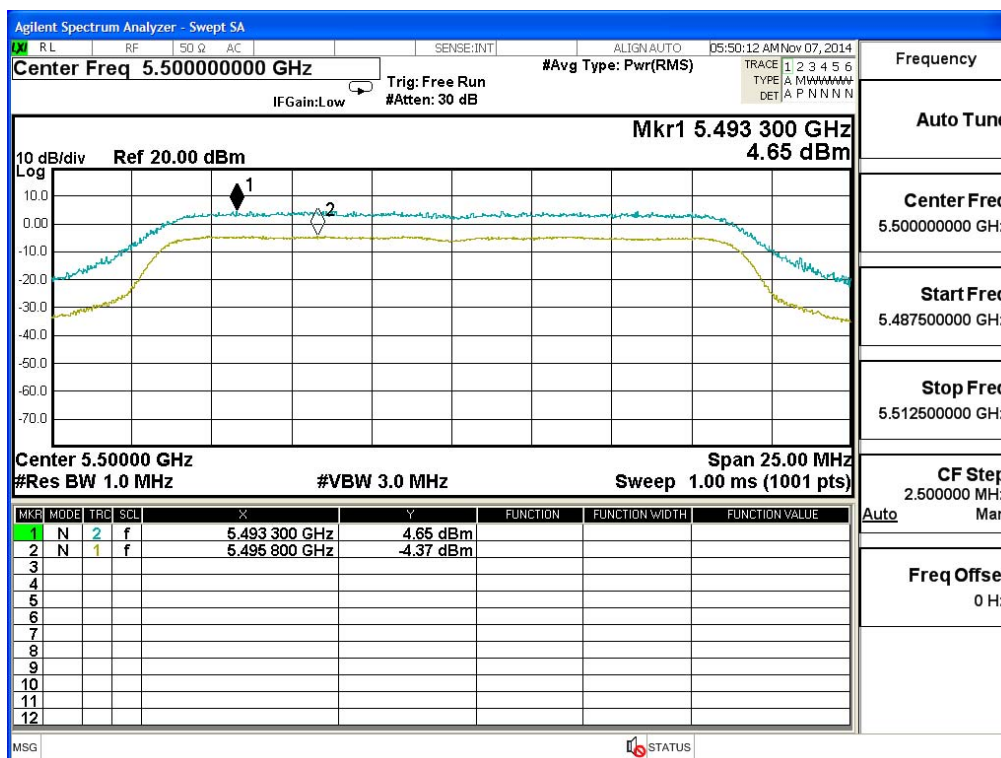


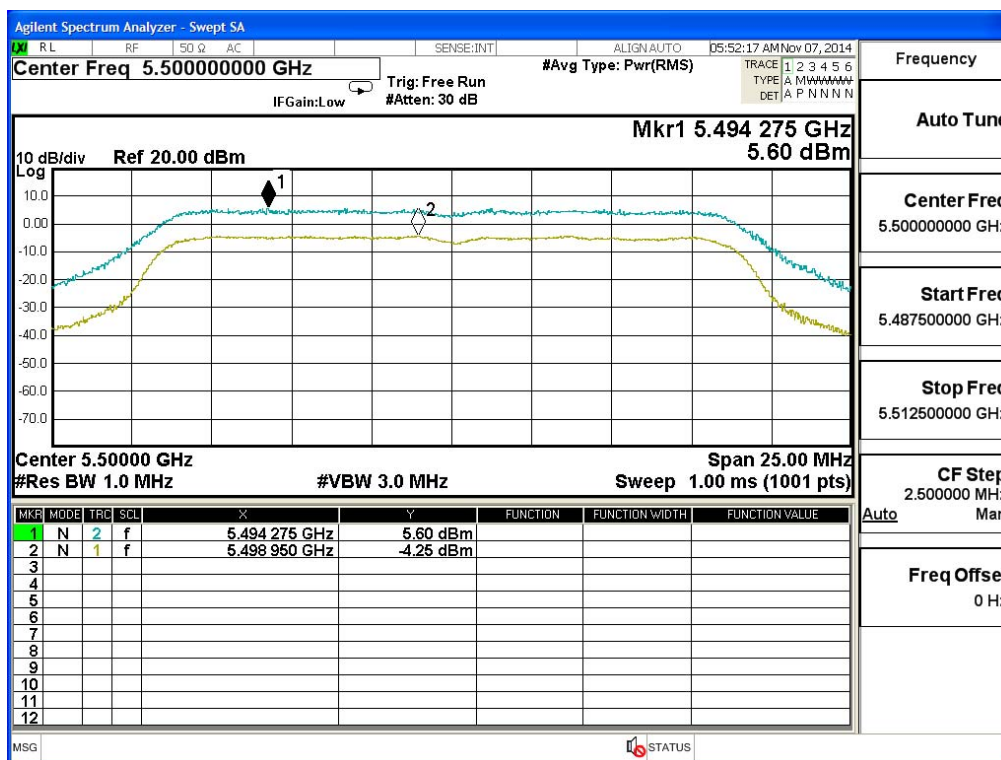
Chain B

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	9.510	<13	Pass
		MCS (2)	9.020	<13	Pass
		MCS (4)	9.870	<13	Pass
		MCS (7)	9.850	<13	Pass

Channel 100:







Product : FIELDBOOK
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

Chain A

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
102	5510	MCS (0)	9.340	<13	Pass
		MCS (2)	9.200	<13	Pass
		MCS (4)	10.690	<13	Pass
		MCS (7)	9.590	<13	Pass

Channel 102:

