



## Test Report

Product Name	ASUS Tablet
Model No	TF810C
FCC ID	MSQTF810CAH691

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	July 13, 2012
Issued Date	Aug. 17, 2012
Report No.	127293R-RFUSP46V01
Report Version	V1.0



The test results relate only to the samples tested.

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# Test Report Certification

Issued Date: Aug. 17, 2012

Report No.: 127293R-RFUSP46V01



Product Name	ASUS Tablet
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	1. PEGATRON CORPORATION Taoyuan Mfg 2. Protek (Shanghai) Limited. 3. Tech-Com(Shanghai) Computer Co.Ltd. 4. Wistron InfoComm(Kunshan) Co., Ltd.
Model No.	TF810C
FCC ID.	MSQTF810CAH691
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2010 ANSI C63.4: 2003, FCC KDB-789033
Test Result	Complied

The Test Results relate only to the samples tested.

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 ( Manager / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	ASUS Tablet
Trade Name	ASUS
FCC ID.	MSQTF810CAH691
Model No.	TF810C
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz
Number of Channels	802.11a/n-20MHz: 19; 802.11n-40MHz: 7
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps
Channel Control	Auto
Type of Modulation	802.11a/n:OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA
Antenna Gain	Refer to the table "Antenna List"
USB Cable	Non-Shielded, 1.5m
Power Adapter	MFR: DELTA, M/N: ADP18BW A Input: 100-240V~0.5A, 50-60Hz Output: 15V $\overline{\text{---}}$ 1.2A or 5V $\overline{\text{---}}$ 2A
Contain Module	Azurewave / AW-AH691

#### Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	INPAQ	WA-P-LBLB-04-002 (Main) WA-P-LBLB-04-002 (Aux)	PIFA	2.62 dBi for 5.15~5.35GHz 2.75 dBi for 5.47~5.725GHz

Note: The antenna of EUT is conform to FCC 15.203

## 802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz		

## 802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 134:	5670 MHz		

## Note:

1. This device is an ASUS Tablet, Contains functions and so on WiFi·Bluetooth·NFC·GPS , This report for WiFi.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps · 802.11g is 6Mbps · 802.11n(20M-BW) is 14.4Mbps and · 802.11n(40M-BW) is 30Mbps).
4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11a is chain A · 802.11n is chain A+ chain B)
5. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
6. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit (802.11a-6Mbps) Mode 2: Transmit (802.11n-20BW 14.4Mbps) Mode 3: Transmit (802.11n-40BW 30Mbps)
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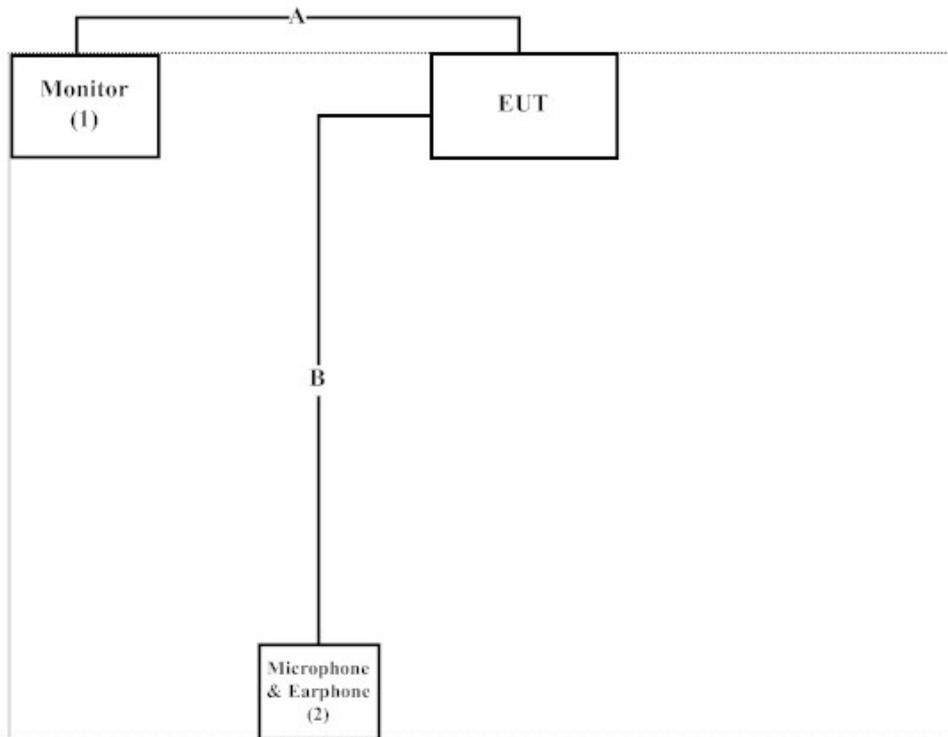
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) Monitor	DELL	U2410f	CN-082WXD-72872-23E-AD5L	Non-Shielded, 1.8m
(2) Microphone & Earphone	PCHOME	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A HDMI Cable	Shielded, 1.7m
B Microphone & Earphone Cable	Non-Shielded, 2.0m

### 1.4. Configuration of tested System



### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute program on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on  
Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Registration Number: 92195

Accreditation on NVLAP  
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation  
Site Address: No.5-22, Ruishukeng Linkou Dist., New Taipei City  
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E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014

## 2. Conducted Emission

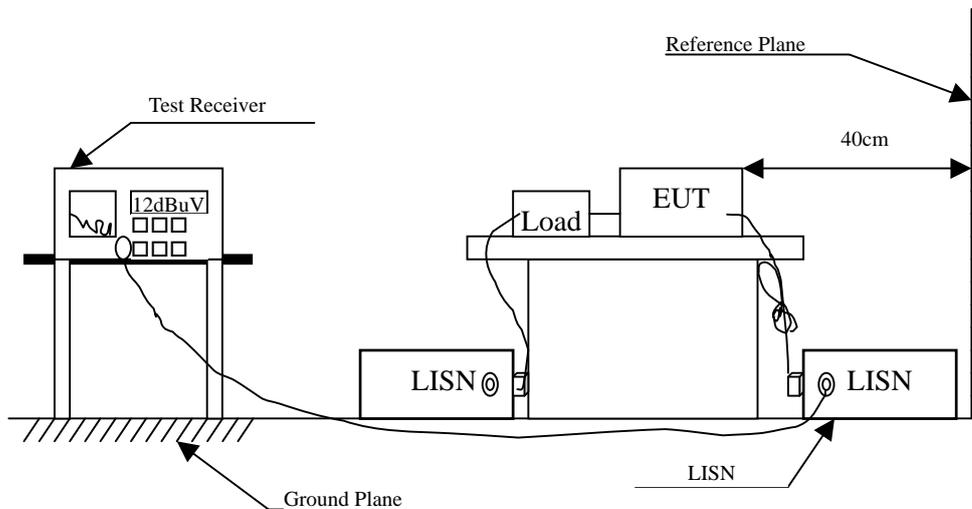
### 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2011	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2012	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2012	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2012	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2012	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

### 2.2. Test Setup



**2.3. Limits**

<b>FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit</b>		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

**2.4. Test Procedure**

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

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.

**2.5. Uncertainty**

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5190MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.205	9.683	36.050	45.733	-18.696	64.429
0.298	9.640	31.730	41.370	-20.401	61.771
0.384	9.640	29.030	38.670	-20.644	59.314
0.556	9.640	25.760	35.400	-20.600	56.000
6.541	9.720	27.920	37.640	-22.360	60.000
13.560	9.840	26.880	36.720	-23.280	60.000
<b>Average</b>					
0.205	9.683	21.060	30.743	-23.686	54.429
0.298	9.640	20.830	30.470	-21.301	51.771
0.384	9.640	22.080	31.720	-17.594	49.314
0.556	9.640	13.750	23.390	-22.610	46.000
6.541	9.720	14.150	23.870	-26.130	50.000
13.560	9.840	19.280	29.120	-20.880	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5190MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.189	9.694	29.600	39.294	-25.592	64.886
0.283	9.647	24.990	34.636	-27.564	62.200
0.400	9.650	29.150	38.800	-20.057	58.857
0.521	9.650	27.090	36.740	-19.260	56.000
0.701	9.650	31.550	41.200	-14.800	56.000
13.560	9.940	26.820	36.760	-23.240	60.000
<b>Average</b>					
0.189	9.694	21.460	31.154	-23.732	54.886
0.283	9.647	16.910	26.556	-25.644	52.200
0.400	9.650	20.530	30.180	-18.677	48.857
0.521	9.650	13.210	22.860	-23.140	46.000
0.701	9.650	22.870	32.520	-13.480	46.000
13.560	9.940	4.750	14.690	-35.310	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5270MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.201	9.686	37.820	47.506	-17.037	64.543
0.314	9.640	26.470	36.110	-25.204	61.314
0.509	9.640	25.740	35.380	-20.620	56.000
1.045	9.670	21.510	31.180	-24.820	56.000
3.119	9.690	17.000	26.690	-29.310	56.000
6.630	9.720	27.360	37.080	-22.920	60.000
<b>Average</b>					
0.201	9.686	22.090	31.776	-22.767	54.543
0.314	9.640	12.910	22.550	-28.764	51.314
0.509	9.640	12.710	22.350	-23.650	46.000
1.045	9.670	11.700	21.370	-24.630	46.000
3.119	9.690	11.170	20.860	-25.140	46.000
6.630	9.720	18.740	28.460	-21.540	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5270MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.189	9.694	29.580	39.274	-25.612	64.886
0.295	9.647	27.630	37.276	-24.581	61.857
0.502	9.650	28.890	38.540	-17.460	56.000
0.701	9.650	27.290	36.940	-19.060	56.000
1.255	9.690	20.430	30.120	-25.880	56.000
6.845	9.770	22.640	32.410	-27.590	60.000
<b>Average</b>					
0.189	9.694	25.040	34.734	-20.152	54.886
0.295	9.647	16.900	26.546	-25.311	51.857
0.502	9.650	22.280	31.930	-14.070	46.000
0.701	9.650	24.010	33.660	-12.340	46.000
1.255	9.690	15.490	25.180	-20.820	46.000
6.845	9.770	17.870	27.640	-22.360	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5590MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.177	9.702	34.680	44.382	-20.847	65.229
0.248	9.657	29.620	39.277	-23.923	63.200
0.404	9.640	29.290	38.930	-19.813	58.743
0.771	9.658	20.340	29.998	-26.002	56.000
1.494	9.675	18.660	28.335	-27.665	56.000
6.580	9.720	27.940	37.660	-22.340	60.000
<b>Average</b>					
0.177	9.702	14.870	24.572	-30.657	55.229
0.248	9.657	22.690	32.347	-20.853	53.200
0.404	9.640	23.930	33.570	-15.173	48.743
0.771	9.658	8.600	18.258	-27.742	46.000
1.494	9.675	13.440	23.115	-22.885	46.000
6.580	9.720	20.040	29.760	-20.240	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ASUS Tablet  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5590MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.220	9.673	25.290	34.963	-29.037	64.000
0.388	9.650	31.600	41.250	-17.950	59.200
0.709	9.653	27.530	37.183	-18.817	56.000
1.072	9.690	24.870	34.560	-21.440	56.000
3.060	9.710	21.940	31.650	-24.350	56.000
6.349	9.750	24.570	34.320	-25.680	60.000
<b>Average</b>					
0.220	9.673	14.020	23.693	-30.307	54.000
0.388	9.650	27.270	36.920	-12.280	49.200
0.709	9.653	22.360	32.013	-13.987	46.000
1.072	9.690	13.760	23.450	-22.550	46.000
3.060	9.710	11.220	20.930	-25.070	46.000
6.349	9.750	16.130	25.880	-24.120	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Peak Transmit Power

#### 3.1. Test Equipment

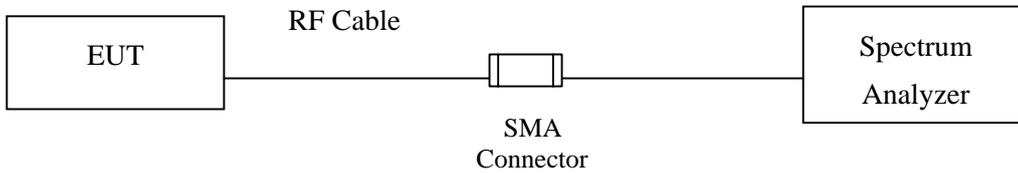
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2012
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

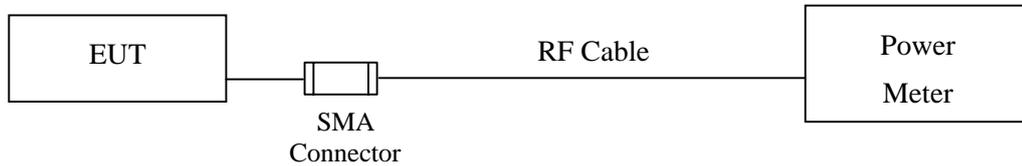
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

#### 3.2. Test Setup

##### 26dBc Occupied Bandwidth



##### Conduction Power Measurement



### 3.3. Limits

- (1) For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or  $4 \text{ dBm} + 10\log B$ , where B is the -26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (2) For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10\log B$ , where B is the -26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.825 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W or  $17 \text{ dBm} + 10\log B$ , where B is the -26dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

### 3.4. Test Procedur

As an alternative to FCC KDB-789033, the EUT peak power was measured with a peak power meter employing a video bandwidth greater than 6dB BW of the emission under test. Peak output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

### 3.5. Uncertainty

$\pm 1.27 \text{ dB}$

### 3.6. Test Result of Peak Transmit Power

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

#### CHAIN A

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	9.66	--	--	--	--	--	--	--	<17dBm
44	5220	9.56	9.38	9.24	9.11	8.96	8.87	8.74	8.62	<17dBm
48	5240	9.71	--	--	--	--	--	--	--	<17dBm
52	5260	9.38	--	--	--	--	--	--	--	<24dBm
60	5300	9.28	9.1	8.96	8.83	8.68	8.59	8.46	8.34	<24dBm
64	5320	9.22	--	--	--	--	--	--	--	<24dBm
100	5500	10.09	--	--	--	--	--	--	--	<24dBm
116	5580	10.17	9.99	9.85	9.72	9.57	9.48	9.35	9.25	<24dBm
140	5700	10.33	--	--	--	--	--	--	--	<24dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

#### CHAIN B

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	8.63	--	--	--	--	--	--	--	<17dBm
44	5220	8.46	8.28	8.14	8.01	7.86	7.77	7.64	7.54	<17dBm
48	5240	8.18	--	--	--	--	--	--	--	<17dBm
52	5260	8.11	--	--	--	--	--	--	--	<24dBm
60	5300	7.98	7.8	7.66	7.53	7.38	7.29	7.16	6.88	<24dBm
64	5320	7.67	--	--	--	--	--	--	--	<24dBm
100	5500	7.82	--	--	--	--	--	--	--	<24dBm
116	5580	7.24	7.06	6.92	6.79	6.64	6.55	6.42	6.34	<24dBm
140	5700	7.06	--	--	--	--	--	--	--	<24dBm

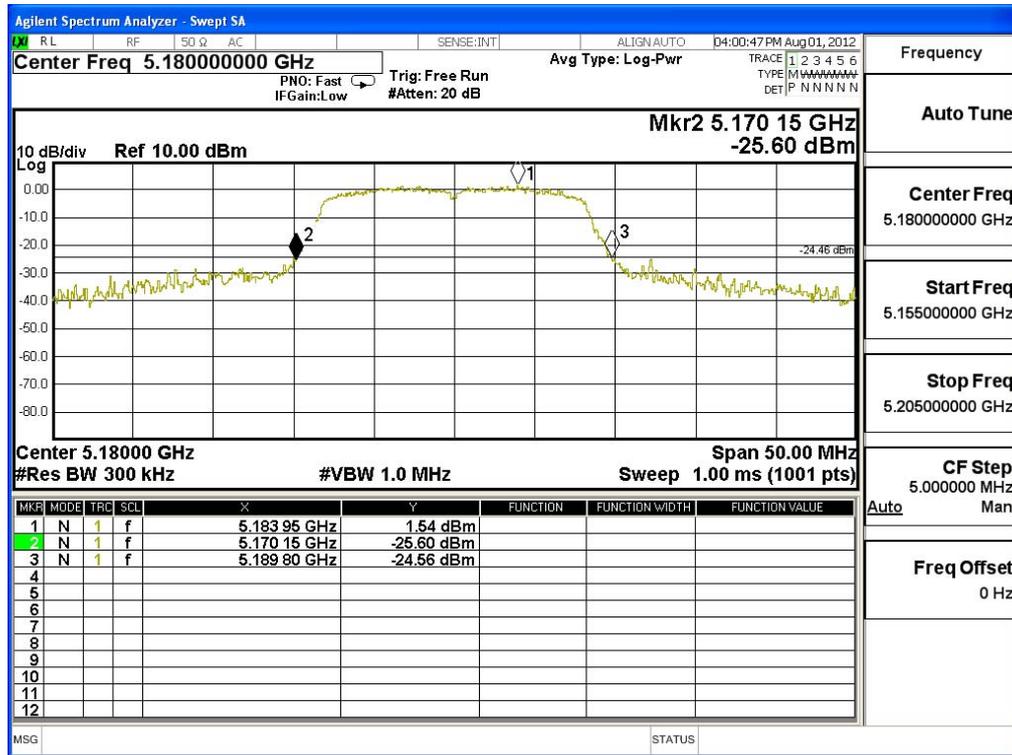
Note: Peak Power Output Value =Reading value on peak power meter + cable loss

**Peak Transmit Power Measurement:**

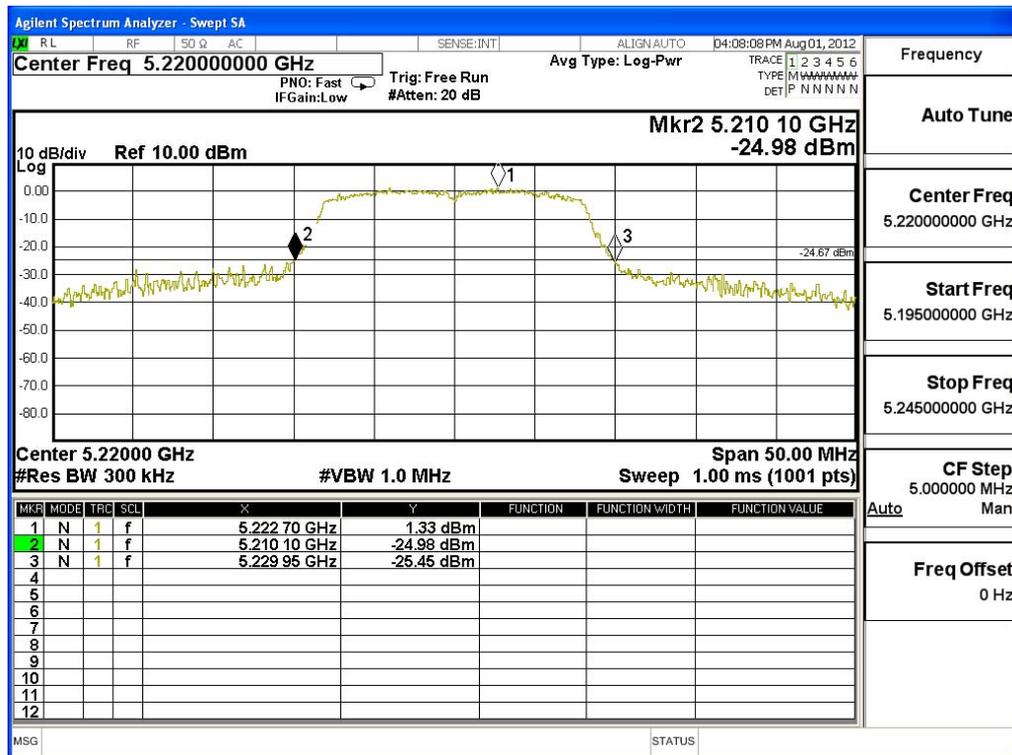
Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	19.650	9.66	17	16.93
44	5220	19.850	9.56	17	16.98
48	5240	20.000	9.71	17	17.01
52	5260	20.000	9.38	24	24.01
60	5300	20.250	9.28	24	24.06
64	5320	19.600	9.22	24	23.92
100	5500	20.650	10.09	24	24.15
116	5580	20.100	10.17	24	24.03
140	5700	23.000	10.33	24	24.62

Note: Power Output Value =Reading value on peak power meter + cable loss

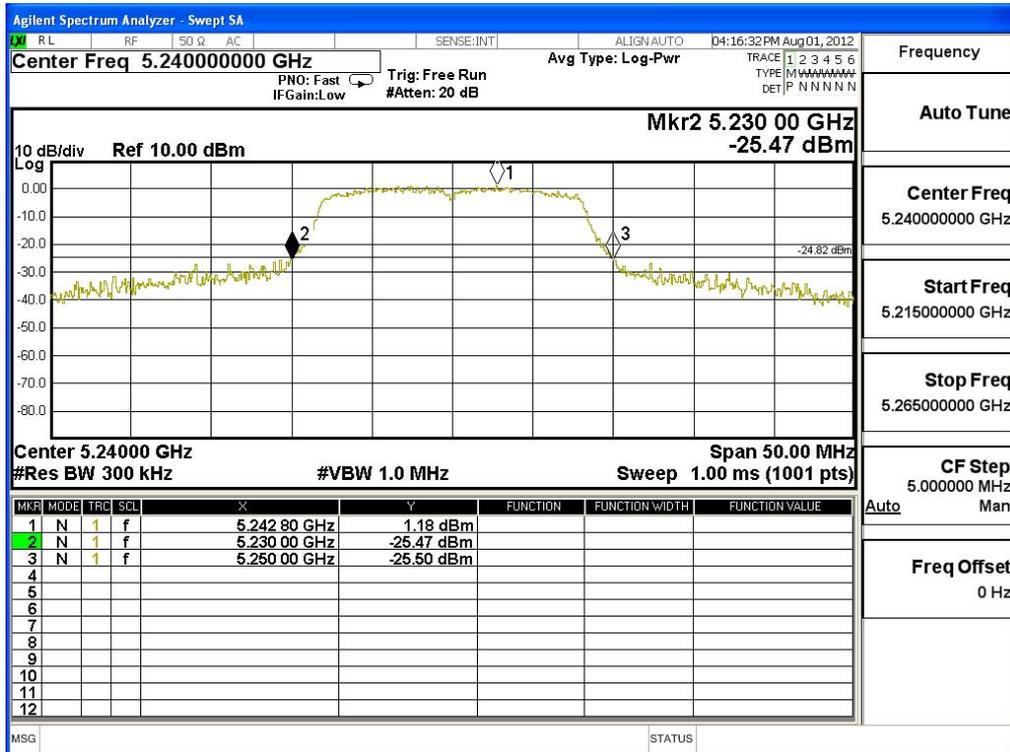
### 26dBc Occupied Bandwidth: Channel 36



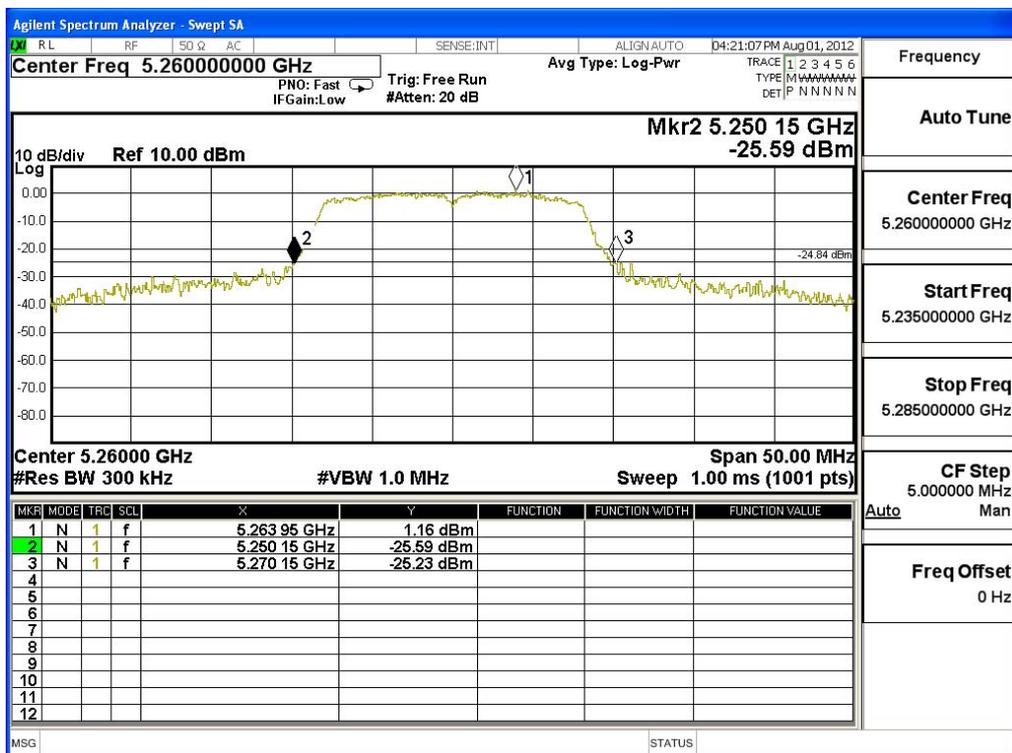
### Channel 40



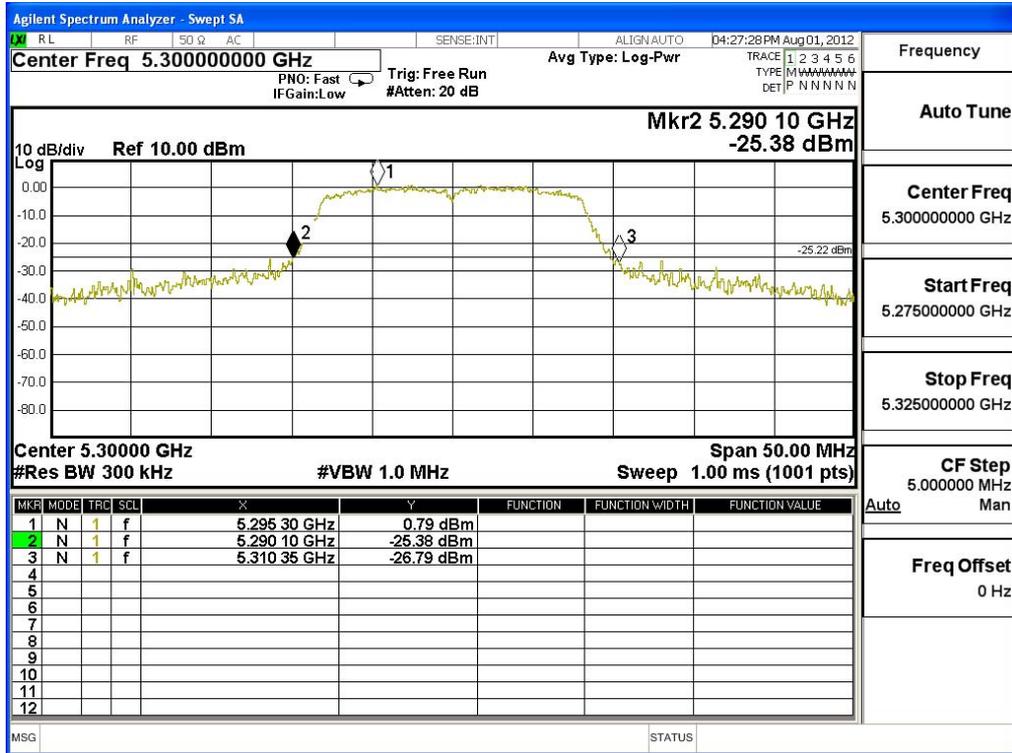
### Channel 48



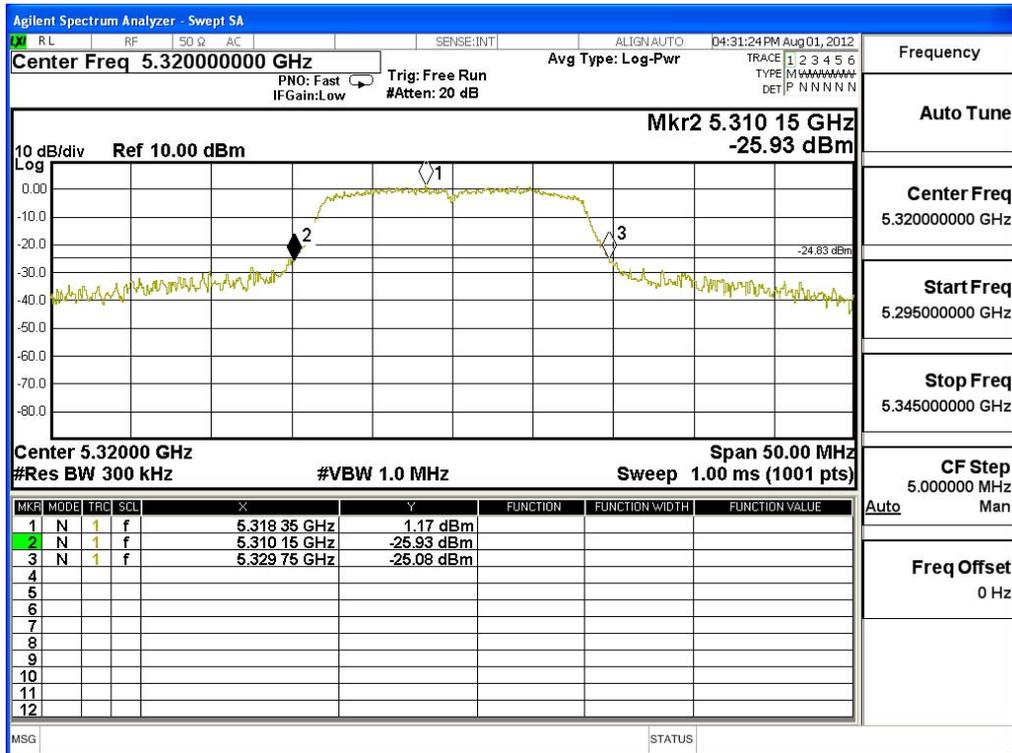
### Channel 52



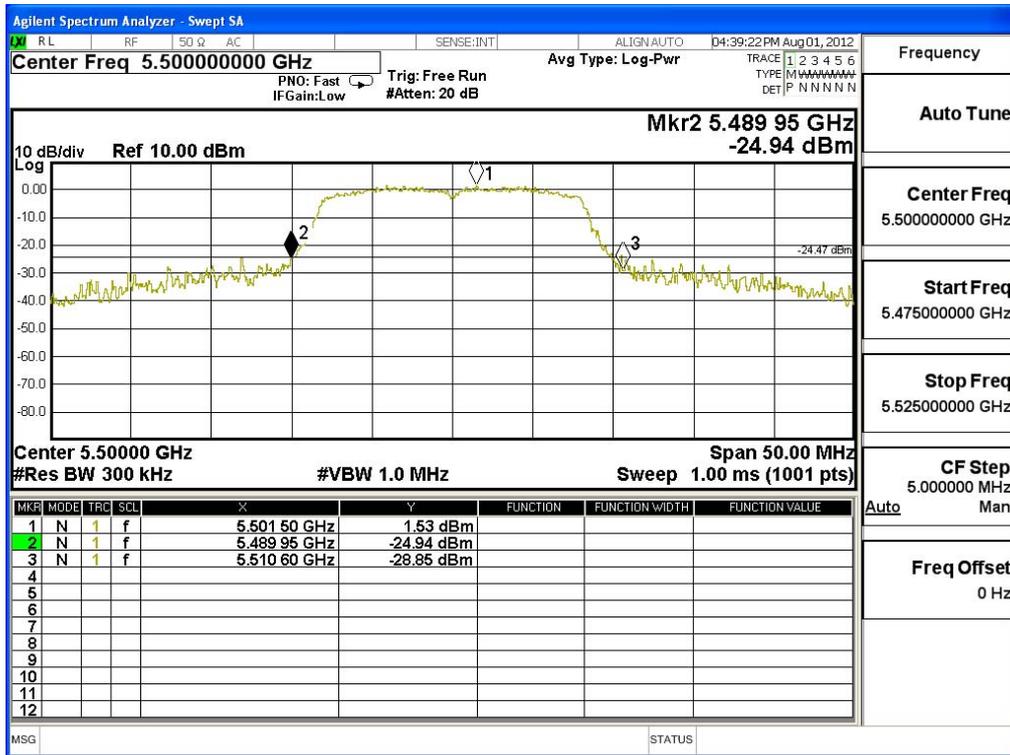
**Channel 60**



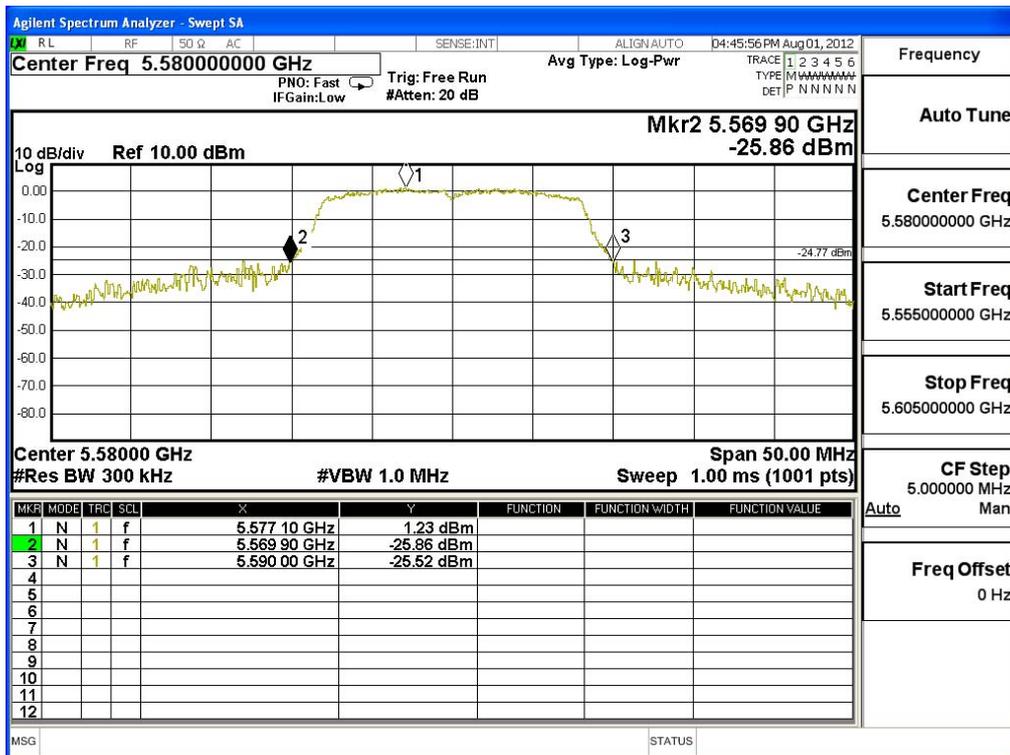
**Channel 64**



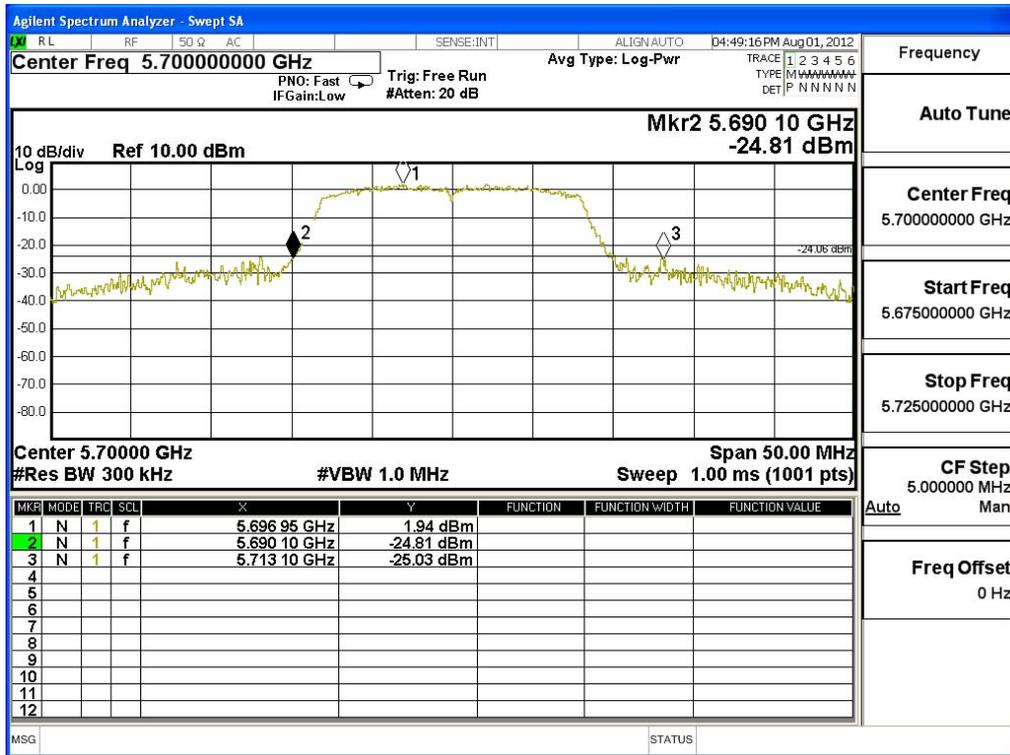
### Channel 100



### Channel 116



### Channel 140



Frequency	
Auto Tune	
Center Freq	5.700000000 GHz
Start Freq	5.675000000 GHz
Stop Freq	5.725000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

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

**CHAIN A**

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	8.37	--	--	--	--	--	--	--	<17dBm
44	5220	8.24	8.01	7.88	7.62	7.34	7.02	6.77	6.5	<17dBm
48	5240	8.23	--	--	--	--	--	--	--	<17dBm
52	5260	8.06	--	--	--	--	--	--	--	<24dBm
60	5300	8.06	7.83	7.7	7.44	7.16	6.84	6.59	6.21	<24dBm
64	5320	7.75	--	--	--	--	--	--	--	<24dBm
100	5500	8.96	--	--	--	--	--	--	--	<24dBm
116	5580	8.96	8.73	8.6	8.34	8.06	7.74	7.49	7.22	<24dBm
140	5700	9.12	--	--	--	--	--	--	--	<24dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

**CHAIN B**

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	7.12	--	--	--	--	--	--	--	<17dBm
44	5220	7.11	6.88	6.75	6.49	6.21	5.89	5.64	5.37	<17dBm
48	5240	6.93	--	--	--	--	--	--	--	<17dBm
52	5260	6.84	--	--	--	--	--	--	--	<24dBm
60	5300	6.57	6.34	6.21	5.95	5.67	5.35	5.1	4.83	<24dBm
64	5320	6.58	--	--	--	--	--	--	--	<24dBm
100	5500	6.58	--	--	--	--	--	--	--	<24dBm
116	5580	6.02	5.79	5.66	5.4	5.12	4.8	4.55	4.28	<24dBm
140	5700	5.91	--	--	--	--	--	--	--	<24dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

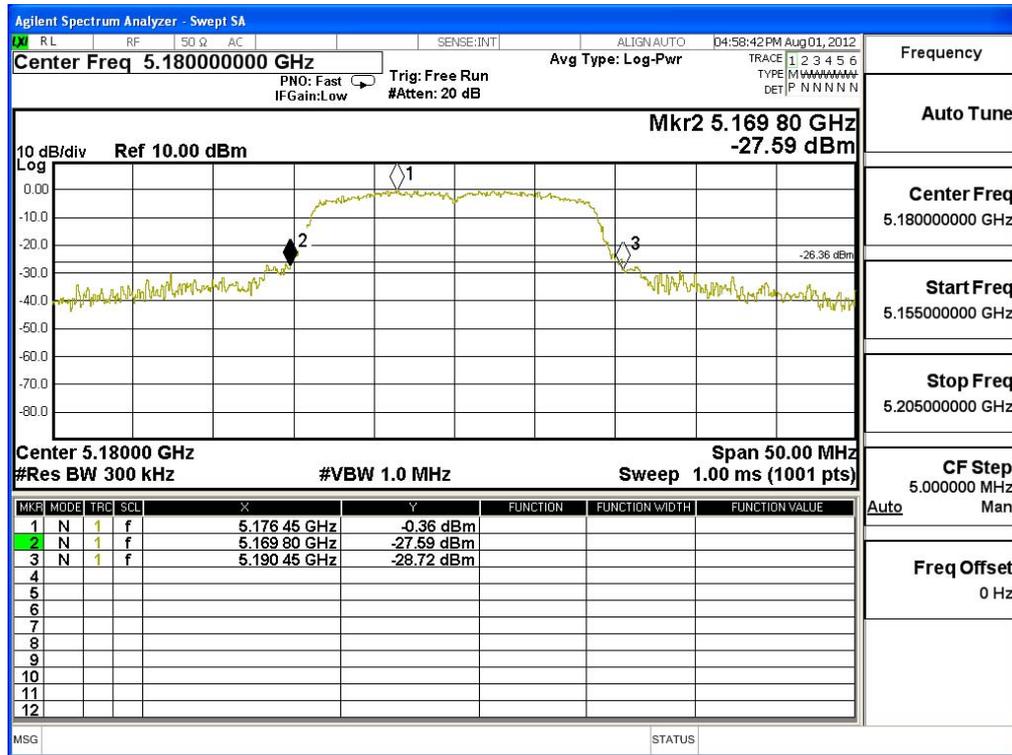
**Peak Transmit Power Measurement:**
**CHAIN A+B**

Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	20.650	8.37	7.12	10.80	17	17.15
44	5220	20.000	8.24	7.11	10.72	17	17.01
48	5240	19.850	8.23	6.93	10.64	17	16.98
52	5260	20.700	8.06	6.84	10.50	24	24.16
60	5300	20.150	9.80	6.57	11.49	24	24.04
64	5320	20.000	7.75	6.58	10.21	24	24.01
100	5500	20.600	8.96	6.58	10.94	24	24.14
116	5580	20.150	8.96	6.02	10.74	24	24.04
140	5700	20.100	9.12	5.91	10.82	24	24.03

Note:

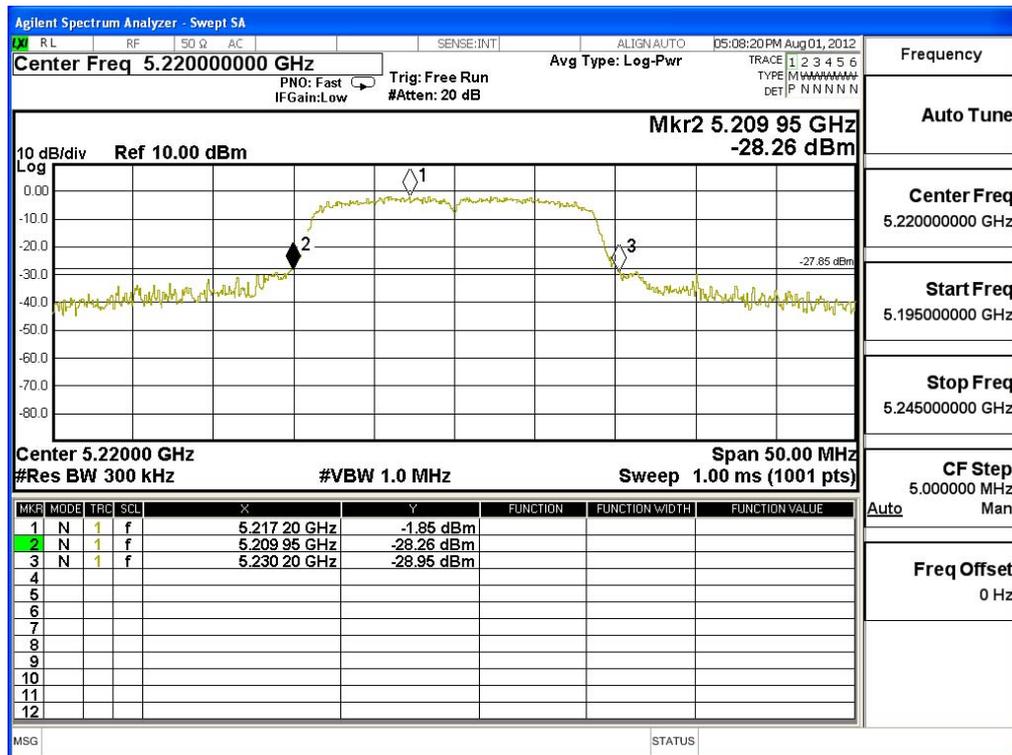
1. Power Output Value = Reading value on peak power meter + cable loss
2. Output Power (dBm) = 10\*LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

### 26dBc Occupied Bandwidth: Channel 36 -Chain A



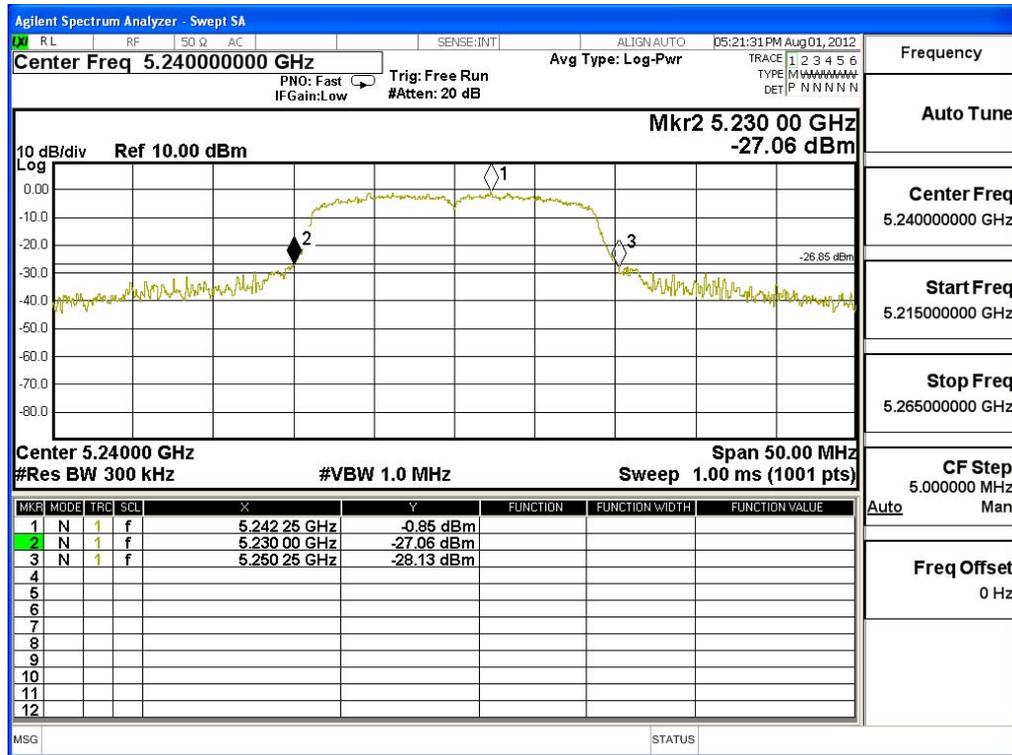
Frequency
Auto Tune
Center Freq 5.18000000 GHz
Start Freq 5.155000000 GHz
Stop Freq 5.205000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

### Channel 44 -Chain A

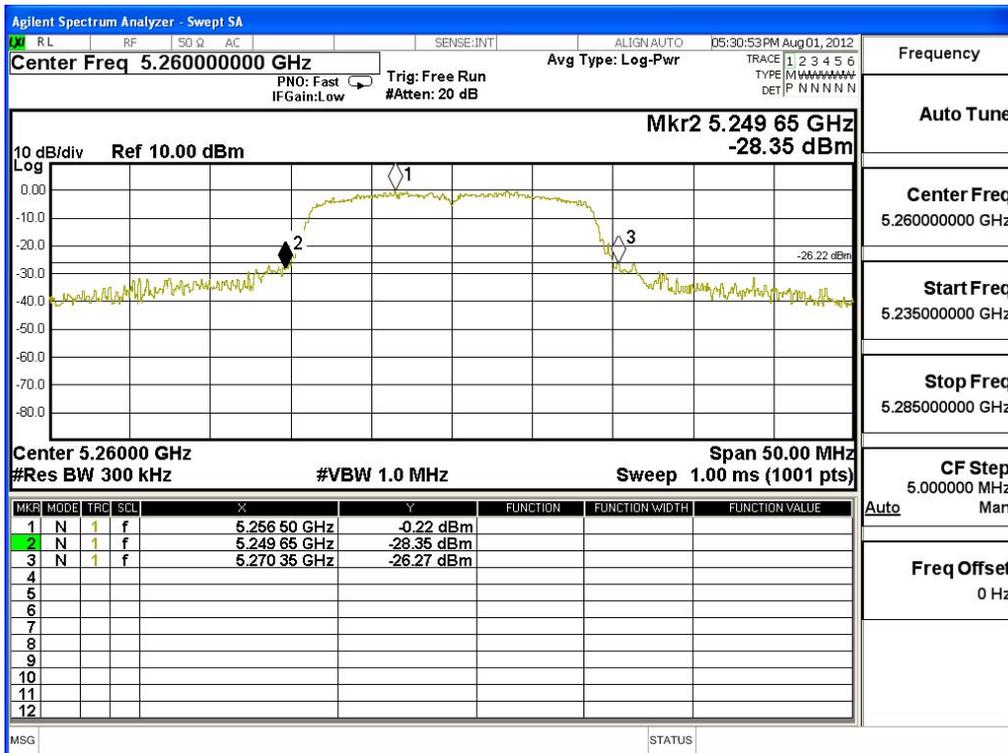


Frequency
Auto Tune
Center Freq 5.22000000 GHz
Start Freq 5.195000000 GHz
Stop Freq 5.245000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz

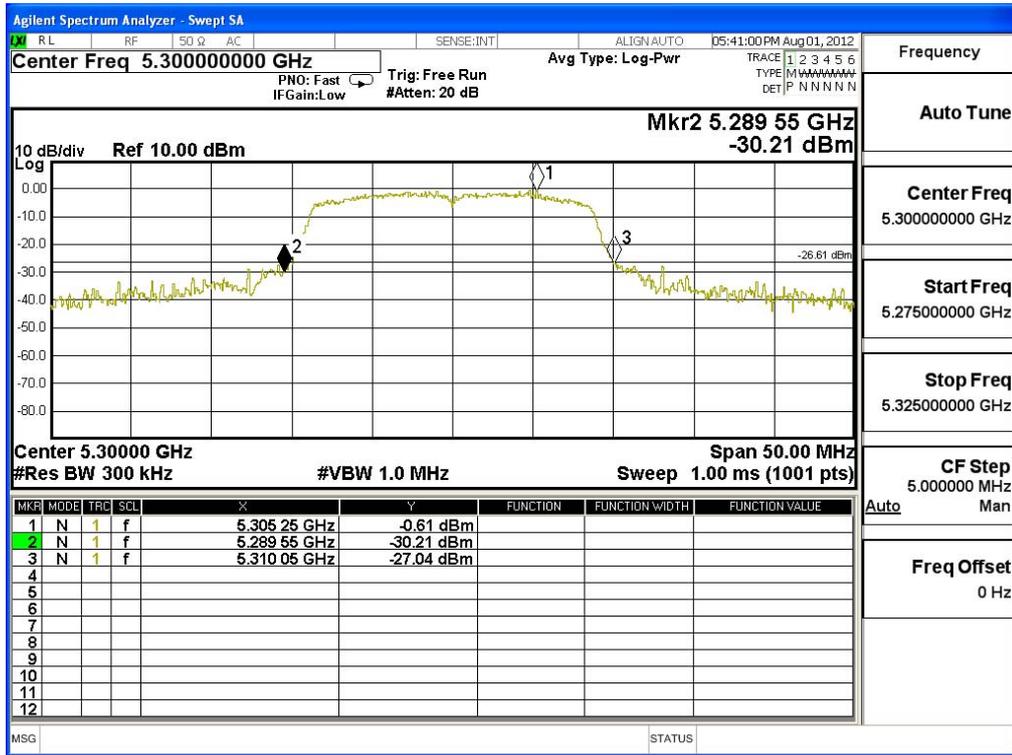
### Channel 48 -Chain A



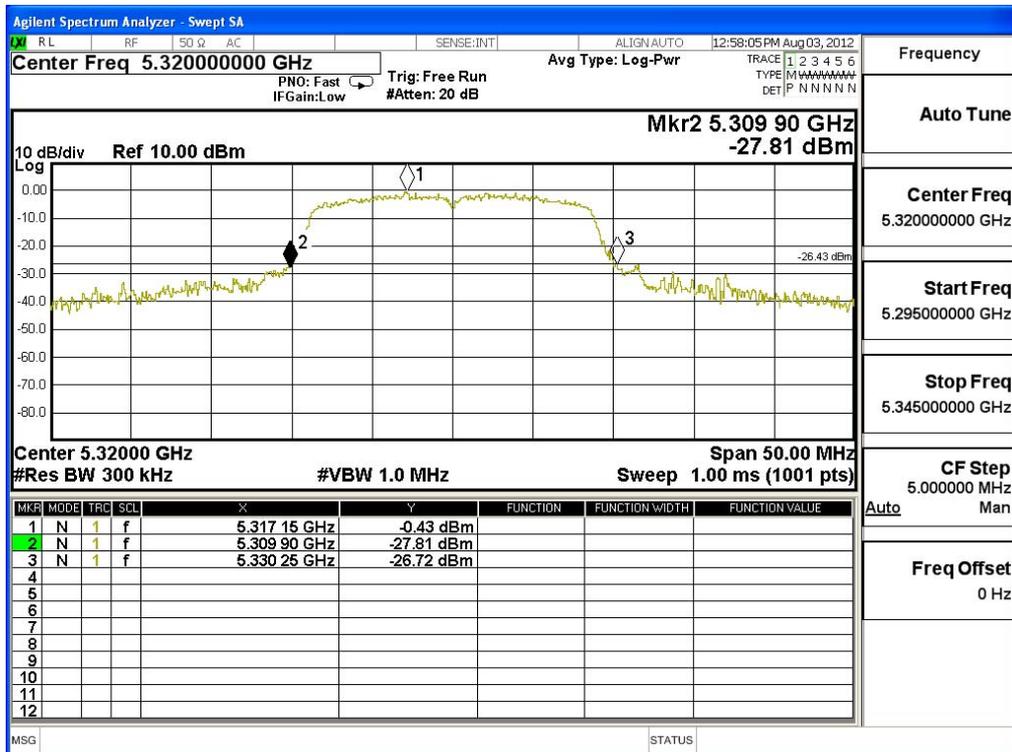
### Channel 52 -Chain A



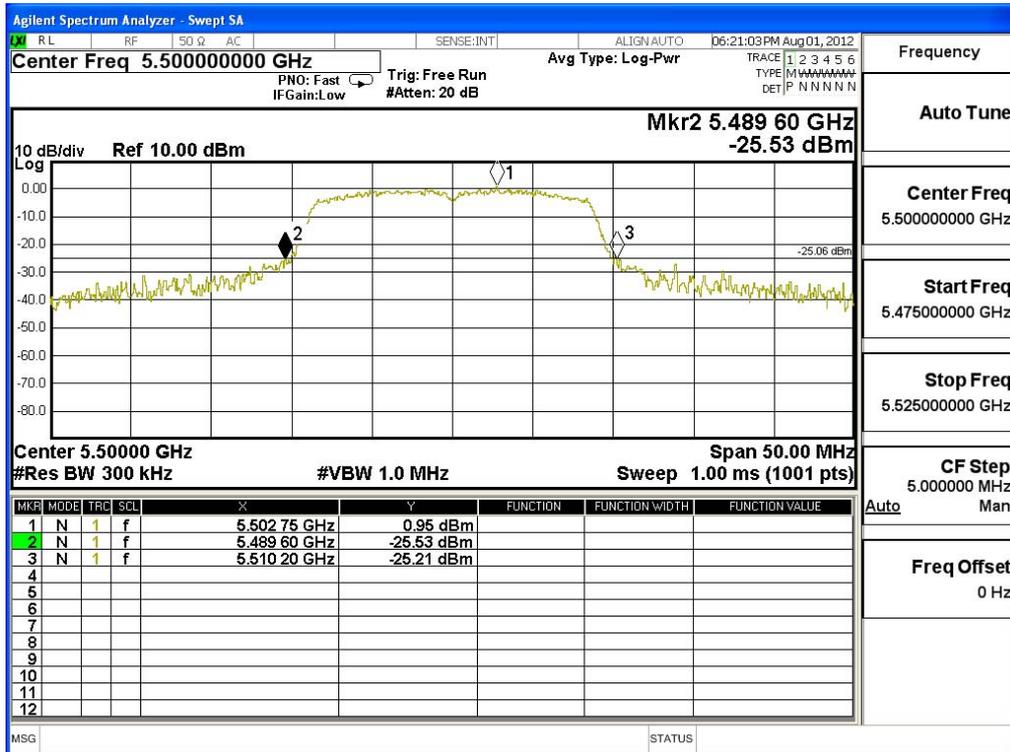
### Channel 60 -Chain A



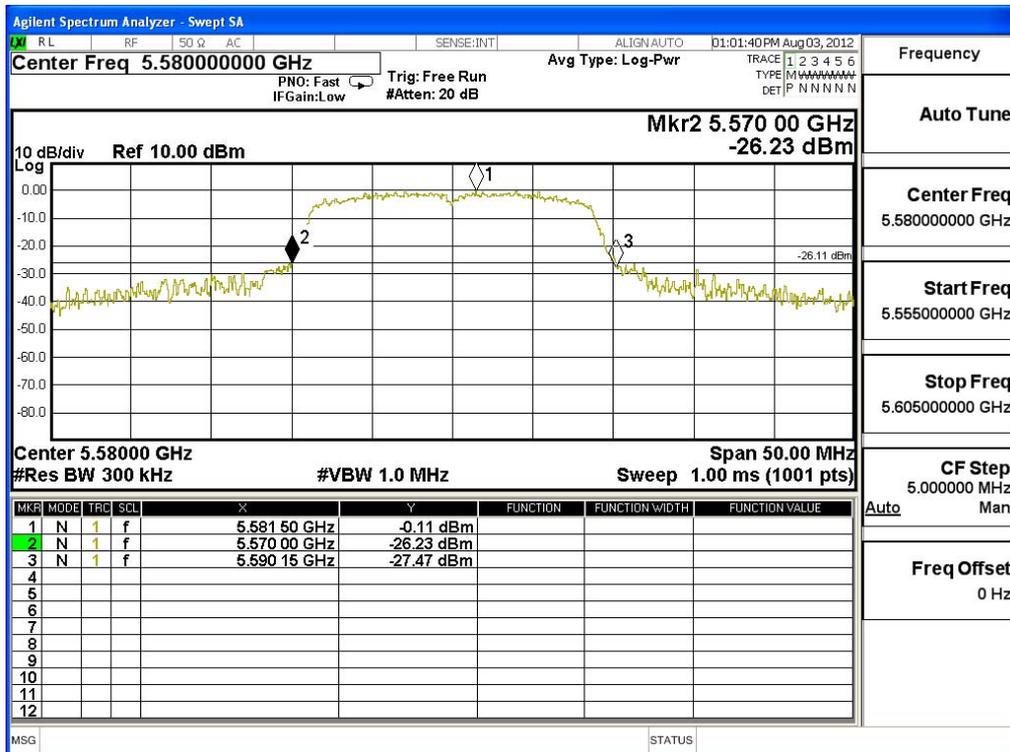
### Channel 64 -Chain A



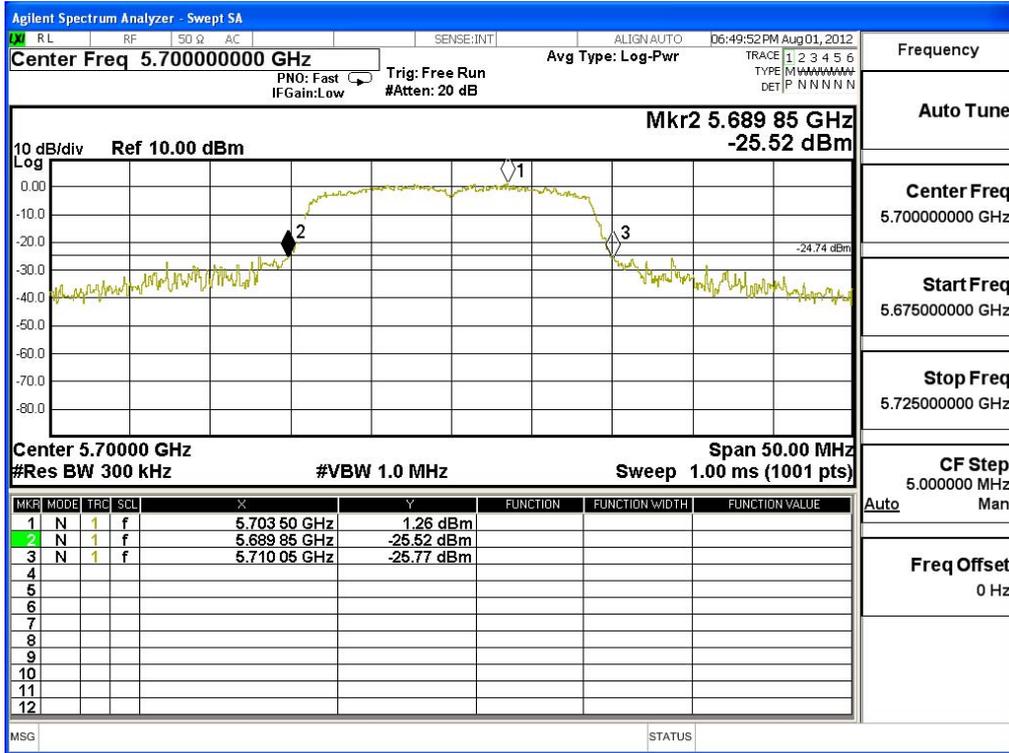
### Channel 100 -Chain A



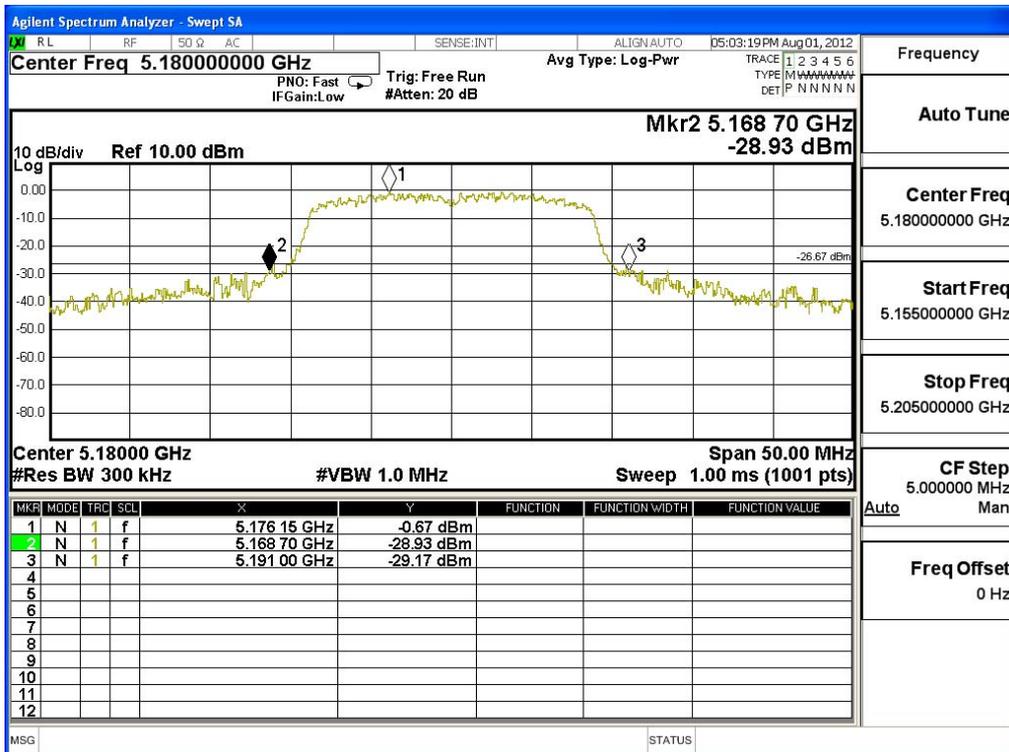
### Channel 116 -Chain A



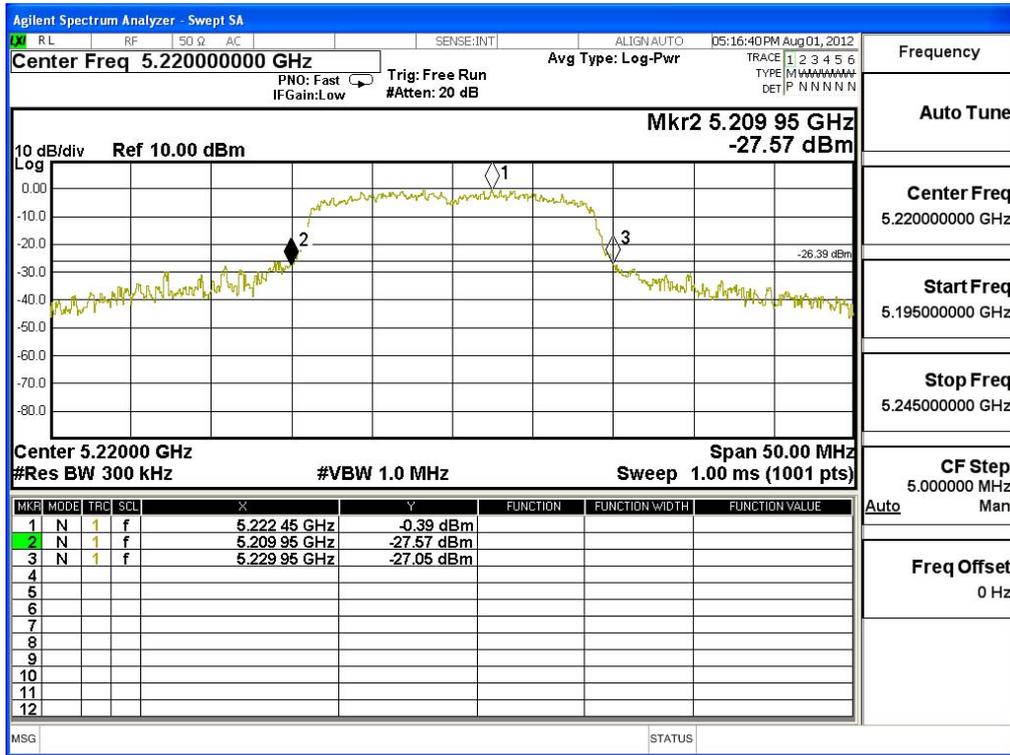
Channel 140 -Chain A



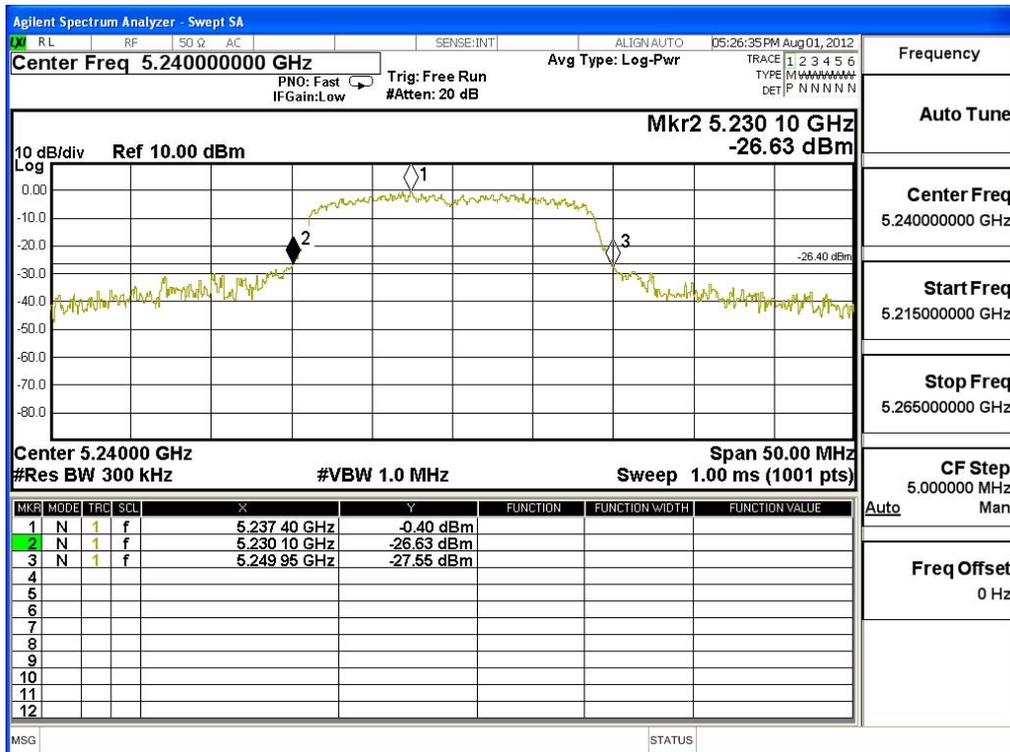
Channel 36 -Chain B



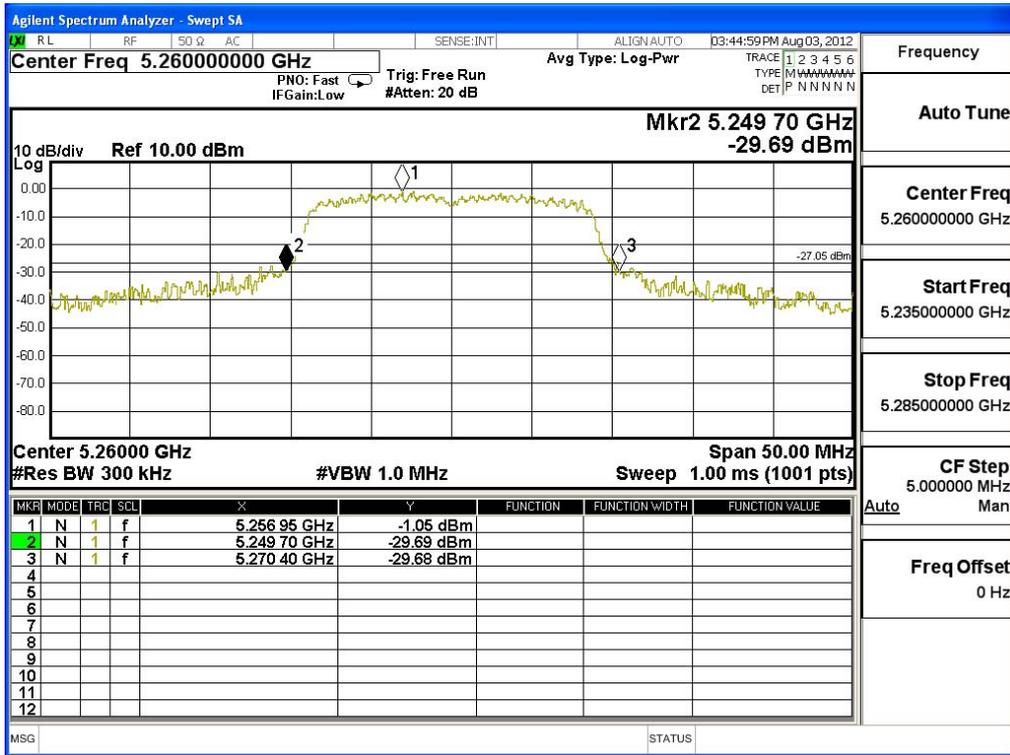
Channel 44 -Chain B



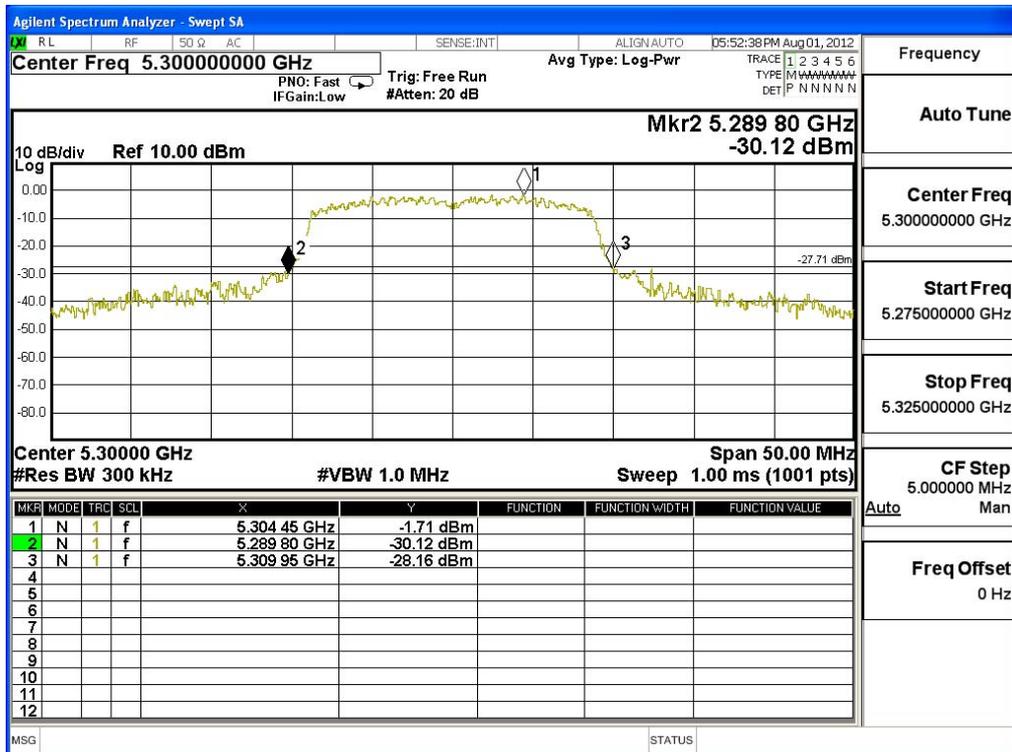
Channel 48 -Chain B



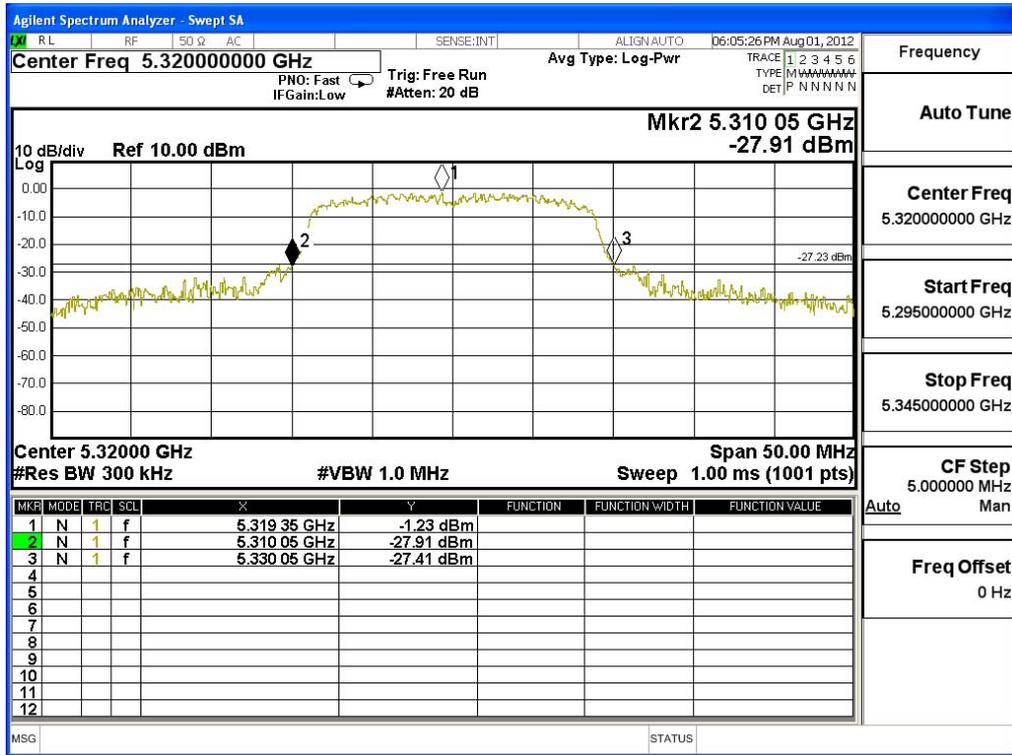
Channel 52 -Chain B



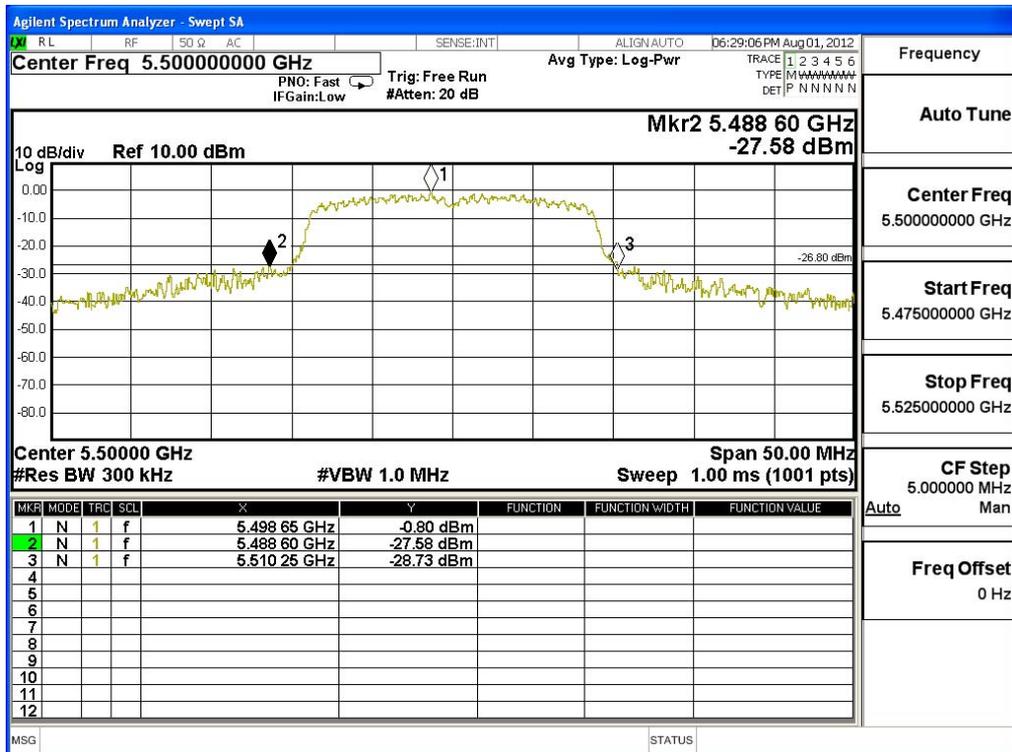
Channel 60 -Chain B



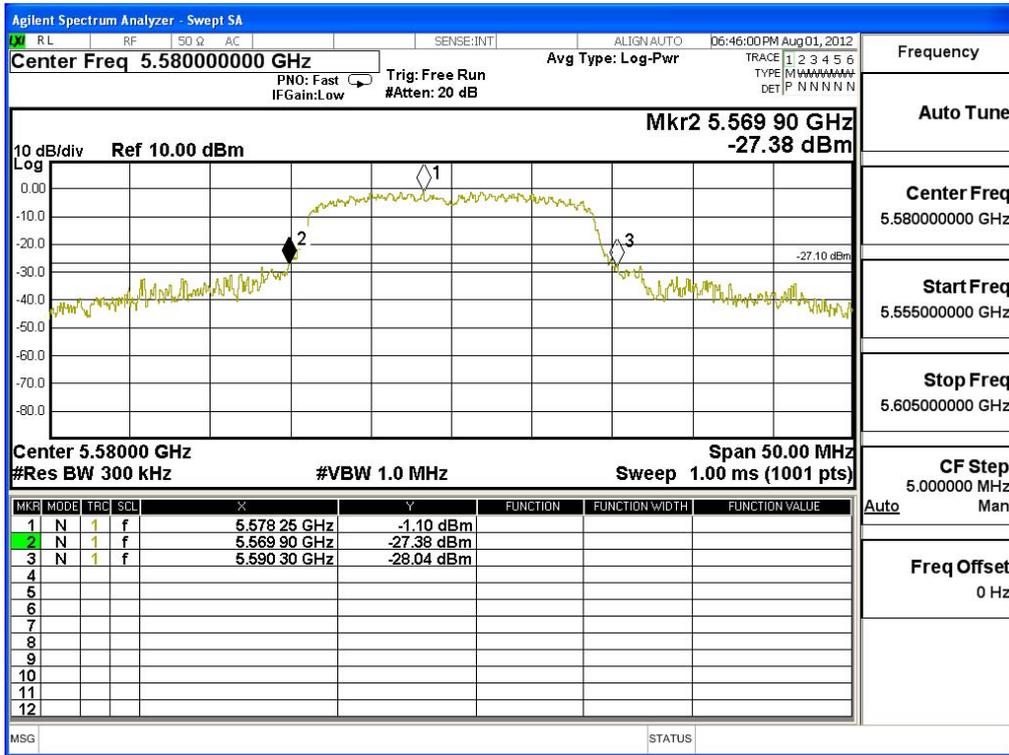
Channel 64 -Chain B



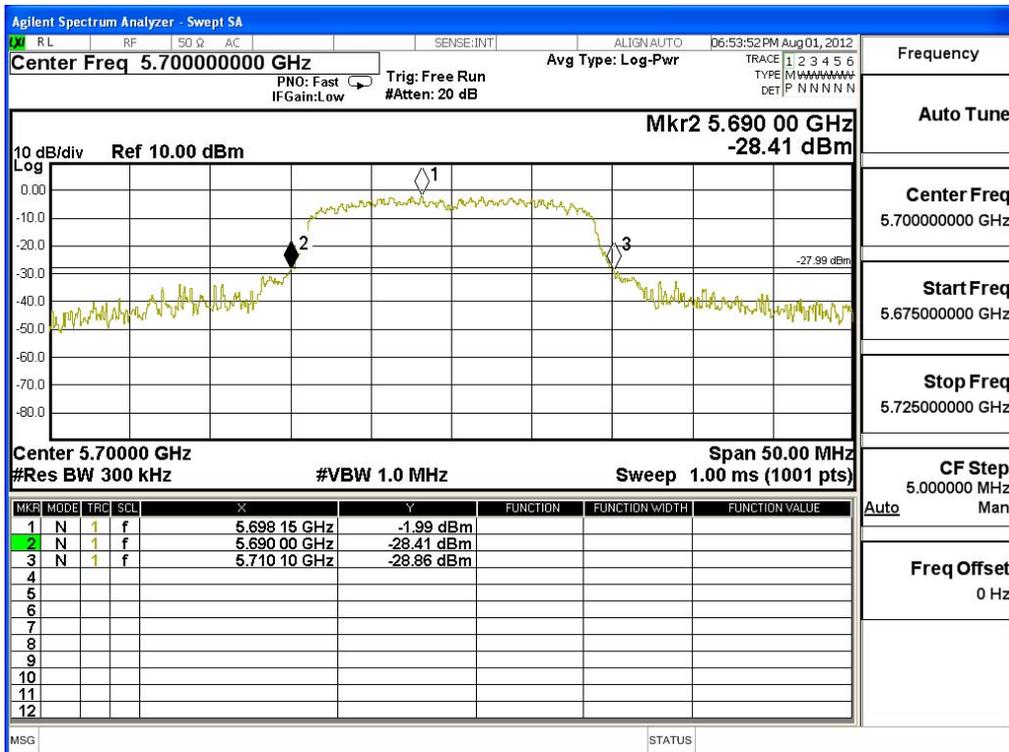
Channel 100 -Chain B



Channel 116 -Chain B



Channel 140 -Chain B



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

**CHAIN A**

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	6.11	--	--	--	--	--	--	--	<17dBm
46	5230	5.91	5.52	5.18	4.9	4.53	4.16	3.99	3.69	<17dBm
54	5270	5.67	--	--	--	--	--	--	--	<17dBm
62	5310	5.66	5.34	5.01	4.72	4.55	4.22	3.75	3.46	<24dBm
102	5510	7.21	--	--	--	--	--	--	--	<24dBm
110	5550	7.27	6.88	6.56	6.26	5.89	5.52	5.35	5.07	<24dBm
134	5670	7.37	--	--	--	--	--	--	--	<24dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

**CHAIN B**

Cable loss=1dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	5	--	--	--	--	--	--	--	<17dBm
46	5230	4.76	4.37	4.03	3.75	3.38	3.01	2.84	2.54	<17dBm
54	5270	4.51	--	--	--	--	--	--	--	<17dBm
62	5310	4.21	3.88	3.52	3.14	2.83	2.58	2.33	2.01	<24dBm
102	5510	4.75	--	--	--	--	--	--	--	<24dBm
110	5550	4.54	4.15	3.81	3.53	3.16	2.79	2.62	2.34	<24dBm
134	5670	3.81	--	--	--	--	--	--	--	<24dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

## Peak Transmit Power Measurement:

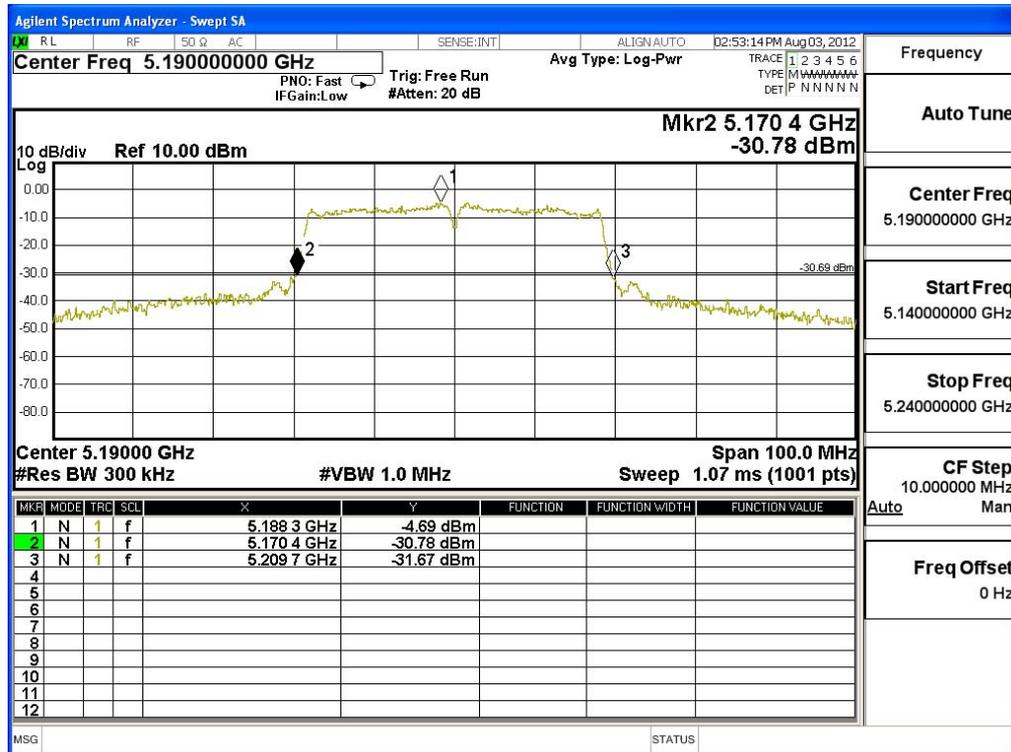
### CHAIN A+B

Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
38	5190	39.300	6.11	5.00	8.60	17	19.94
46	5230	38.900	5.91	4.76	8.38	17	19.90
54	5270	39.200	5.67	4.51	8.14	24	26.93
62	5310	39.400	5.66	4.21	8.01	24	26.95
102	5510	39.400	7.21	4.75	9.16	24	26.95
110	5550	39.400	7.27	4.56	9.13	24	26.95
134	5670	39.500	7.37	3.81	8.96	24	26.97

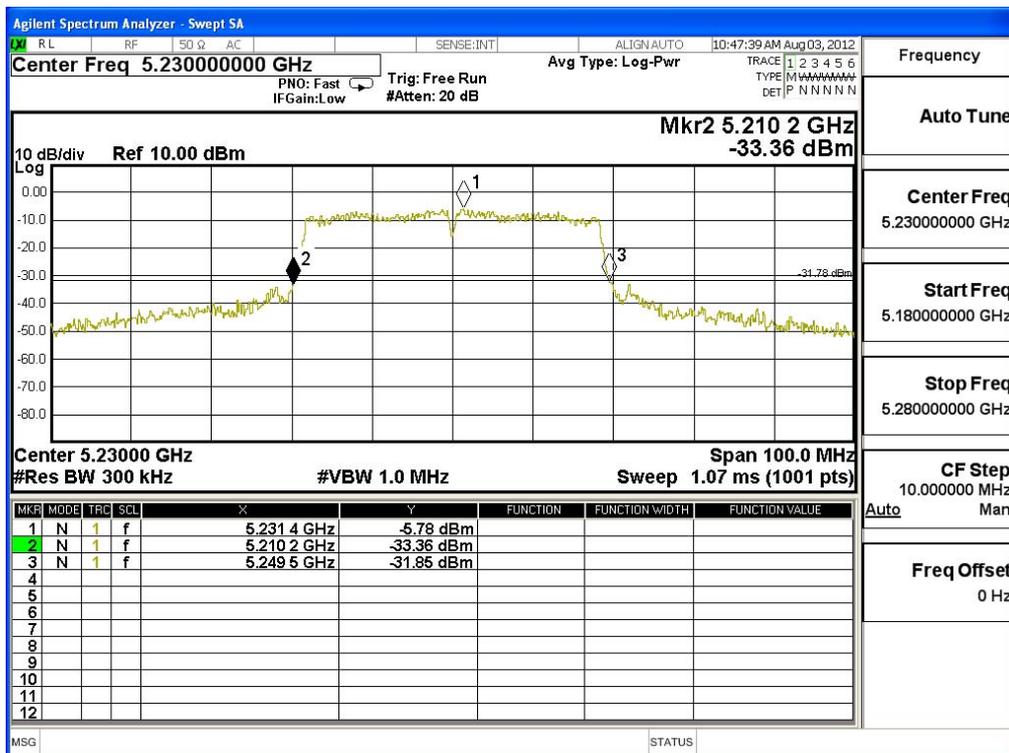
#### Note:

1. Power Output Value = Reading value on peak power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

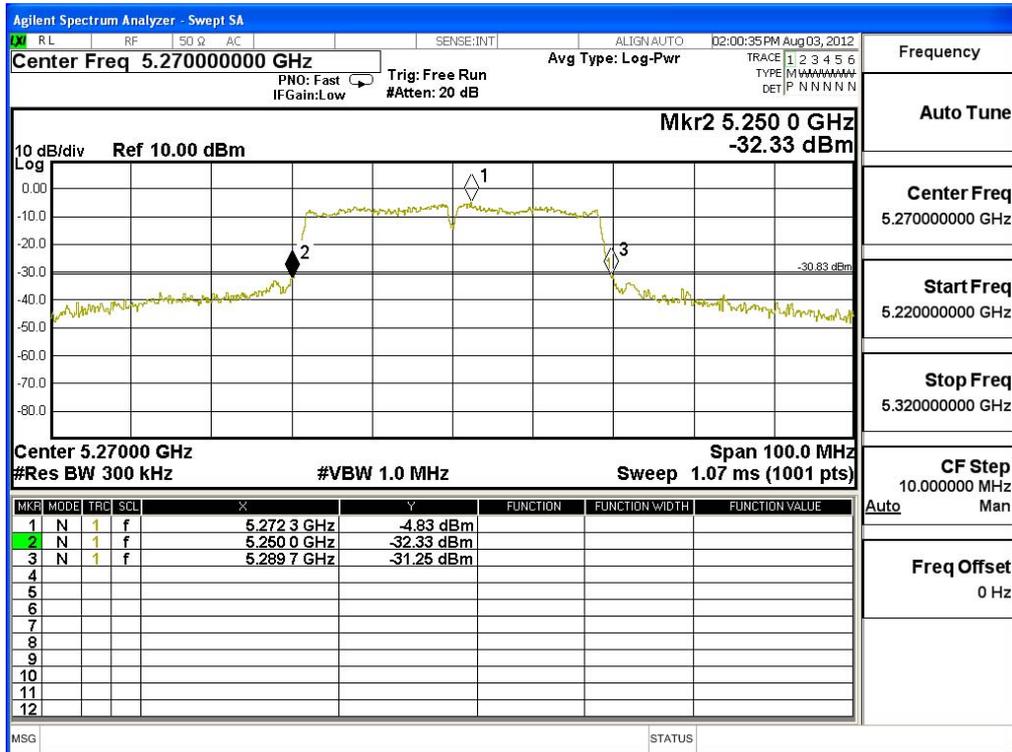
### 26dBc Occupied Bandwidth: Channel 38 – Chain A



### Channel 46 – Chain A



Channel 54 – Chain A



Channel 62 – Chain A

