



# Test Report

Product Name	Tablet PC
Model No	xTablet <sup>®</sup> T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID	FKGT7Q

Applicant	Twinhead International Corp
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, ROC

Date of Receipt	Feb. 21, 2012
Issued Date	Jun. 25, 2012
Report No.	122393R-RFUSP45V01
Report Version	V3Ø



The test results relate only to the samples tested.  
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# Test Report Certification

Issued Date: Jun. 25, 2012

Report No.: 122393R-RFUSP45V01



Product Name	Tablet PC
Applicant	Twinhead International Corp
Address	10F, 550 Rueiguand Rd Neihu, Taipei, Taiwan 114, ROC
Manufacturer	Twinhead International Corp
Model No.	xTablet® T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID.	FKGT7Q
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	MobileDemand, LOGIC INSTRUMENT, DURABOOK, tabletkiosk
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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Approved By : [Signature]  
( Manager / Vincent Lin )

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Tablet PC
Trade Name	MobileDemand, LOGIC INSTRUMENT, DURABOOK, tabletkiosk
FCC ID.	FKGT7Q
Model No.	xTablet <sup>®</sup> T7200, Fieldbook A2, T7Q, a7360X, a7380X
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: 9
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
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: FSP GROUP, M/N: FSP065-RAB Input: AC 100-240V, 50-60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Non-Shielded, 1.8m, with one ferrite core bonded. Power Cord: Non-Shielded, 1.8m
Contain Module	Intel/6235ANHMW

#### Antenna List

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	WGT	TWT7QWIPI02+A (Main) TWT7QWIPI01+A (Aux)	PIFA	2.43dBi For 5.15~5.35GHz 0.93dBi 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 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz						

## Note:

1. This device is a Tablet PC, Contains functions and so on WiFi·Bluetooth·RFID·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. 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.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
6. The different of the each model is shown as below:

Model	Trademark
xTablet@T7200	MobileDemand
Fieldbook A2	LOGIC INSTRUMENT
T7Q	DURABOOK
a7360X/a7380X	tabletkiosk

NOTE: 1. I/O Port and appearance of buttons in each model is not the same.

(See internal photos)

2. Each model through the pretest, only the worst case (T7Q) is shown in the test report.

Test Mode	
	Mode 1: Transmit (802.11a-6Mbps)
	Mode 2: Transmit (802.11n-20BW 14.4Mbps)
	Mode 3: Transmit (802.11n-40BW 30Mbps)

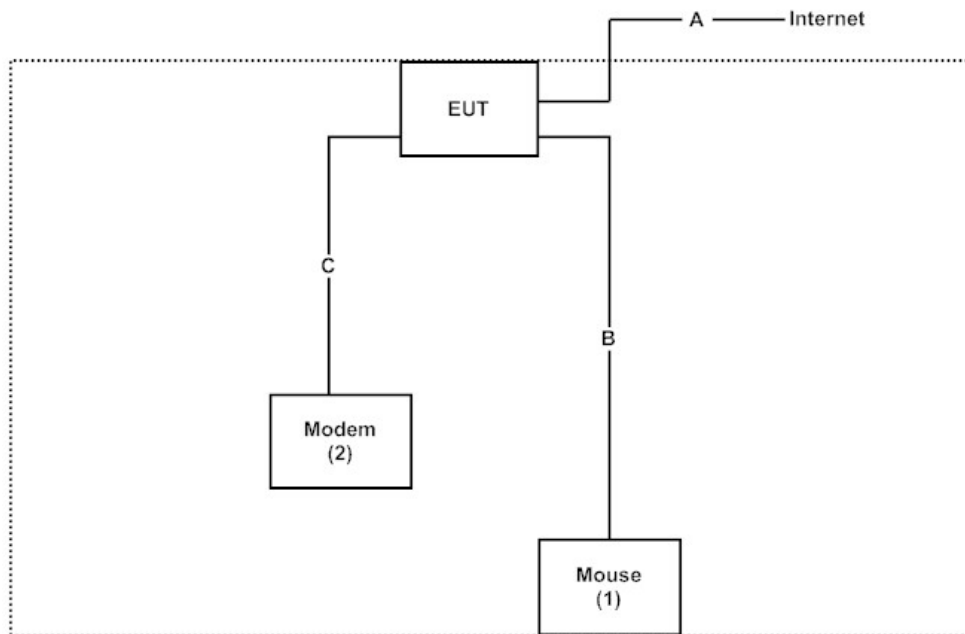
### 1.3. Tested System Details

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) USB Mouse	Logitech	M-U0003	LZ024HR	N/A
(2) Modem	ACEEX	DM-1414	0102027558	Non-Shielded, 1.8m

Signal Cable Type	Signal cable Description
A LAN Cable	Non-Shielded, 2m
B Mouse Cable	Non-Shielded, 1.8m
C Modem Cable	Non-Shielded, 1.5m

### 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  
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E-Mail : [service@quietek.com](mailto:service@quietek.com)

FCC Accreditation Number: TW1014



## 2. Conducted Emission

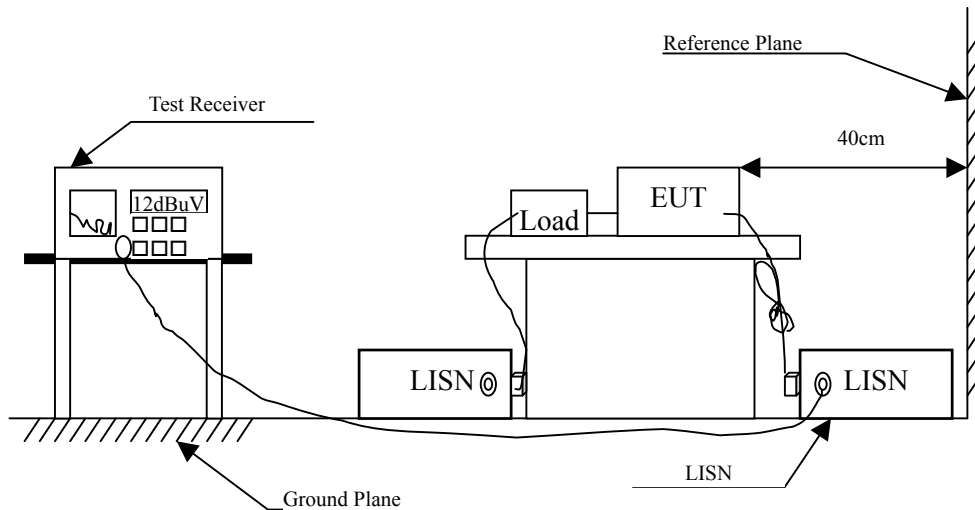
### 2.1. Test Equipment

	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 investigated 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 : Tablet PC  
 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	9.840	33.200	43.040	-21.389	64.429
0.283	9.840	24.400	34.240	-27.960	62.200
0.654	9.840	34.040	43.880	-12.120	56.000
1.412	9.850	22.020	31.870	-24.130	56.000
3.123	9.870	14.370	24.240	-31.760	56.000
26.513	10.133	24.310	34.443	-25.557	60.000
<b>Average</b>					
0.205	9.840	20.770	30.610	-23.819	54.429
0.283	9.840	9.480	19.320	-32.880	52.200
0.654	9.840	23.600	33.440	-12.560	46.000
1.412	9.850	8.040	17.890	-28.110	46.000
3.123	9.870	3.850	13.720	-32.280	46.000
26.513	10.133	16.530	26.663	-23.337	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 : Tablet PC  
 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>					
0.205	9.840	35.060	44.900	-19.529	64.429
0.291	9.840	24.630	34.470	-27.501	61.971
0.447	9.840	29.550	39.390	-18.124	57.514
0.666	9.840	34.100	43.940	-12.060	56.000
0.935	9.840	27.920	37.760	-18.240	56.000
26.888	10.350	25.440	35.790	-24.210	60.000
<b>Average</b>					
0.205	9.840	22.580	32.420	-22.009	54.429
0.291	9.840	14.400	24.240	-27.731	51.971
0.447	9.840	18.310	28.150	-19.364	47.514
0.666	9.840	23.560	33.400	-12.600	46.000
0.935	9.840	16.440	26.280	-19.720	46.000
26.888	10.350	17.910	28.260	-21.740	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 : Tablet PC  
 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>					
0.185	9.840	33.020	42.860	-22.140	65.000
0.201	9.840	33.780	43.620	-20.923	64.543
0.287	9.840	24.460	34.300	-27.786	62.086
0.478	9.840	27.150	36.990	-19.639	56.629
0.670	9.840	32.510	42.350	-13.650	56.000
1.056	9.850	24.170	34.020	-21.980	56.000
<b>Average</b>					
0.185	9.840	18.590	28.430	-26.570	55.000
0.201	9.840	21.940	31.780	-22.763	54.543
0.287	9.840	10.820	20.660	-31.426	52.086
0.478	9.840	20.420	30.260	-16.369	46.629
0.670	9.840	21.850	31.690	-14.310	46.000
1.056	9.850	9.530	19.380	-26.620	46.000

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 : Tablet PC  
 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>					
0.193	9.840	35.630	45.470	-19.301	64.771
0.279	9.840	24.180	34.020	-28.294	62.314
0.482	9.840	29.720	39.560	-16.954	56.514
0.654	9.840	35.060	44.900	-11.100	56.000
1.767	9.856	23.030	32.886	-23.114	56.000
28.041	10.360	24.700	35.060	-24.940	60.000
<b>Average</b>					
0.193	9.840	23.050	32.890	-21.881	54.771
0.279	9.840	11.080	20.920	-31.394	52.314
0.482	9.840	21.840	31.680	-14.834	46.514
0.654	9.840	24.050	33.890	-12.110	46.000
1.767	9.856	11.570	21.426	-24.574	46.000
28.041	10.360	17.690	28.050	-21.950	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 : Tablet PC  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.197	9.840	33.820	43.660	-20.997	64.657
0.310	9.840	25.090	34.930	-26.499	61.429
0.443	9.840	25.860	35.700	-21.929	57.629
0.654	9.840	34.060	43.900	-12.100	56.000
1.400	9.850	22.040	31.890	-24.110	56.000
26.420	10.140	23.920	34.060	-25.940	60.000
<b>Average</b>					
0.197	9.840	21.890	31.730	-22.927	54.657
0.310	9.840	12.080	21.920	-29.509	51.429
0.443	9.840	15.810	25.650	-21.979	47.629
0.654	9.840	23.600	33.440	-12.560	46.000
1.400	9.850	8.180	18.030	-27.970	46.000
26.420	10.140	16.570	26.710	-23.290	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 : Tablet PC  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.197	9.840	35.300	45.140	-19.517	64.657
0.298	9.840	25.190	35.030	-26.741	61.771
0.466	9.840	31.510	41.350	-15.621	56.971
0.662	9.840	34.650	44.490	-11.510	56.000
1.431	9.850	24.510	34.360	-21.640	56.000
28.173	10.360	24.470	34.830	-25.170	60.000
<b>Average</b>					
0.197	9.840	23.490	33.330	-21.327	54.657
0.298	9.840	15.000	24.840	-26.931	51.771
0.466	9.840	21.240	31.080	-15.891	46.971
0.662	9.840	24.520	34.360	-11.640	46.000
1.431	9.850	12.440	22.290	-23.710	46.000
28.173	10.360	17.270	27.630	-22.370	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

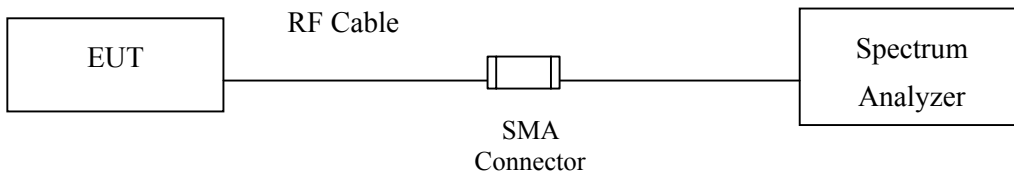
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2012
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2012
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

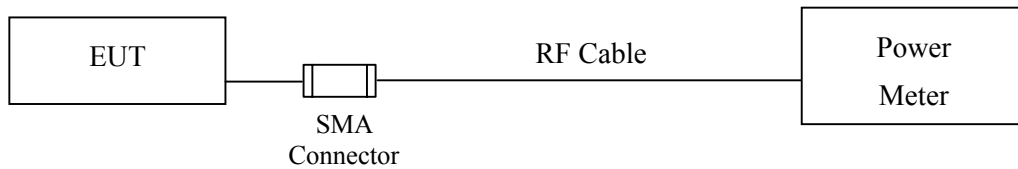
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

#### 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 26-dB 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 26-dB 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 26-dB 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 : Tablet PC  
 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	11.69	--	--	--	--	--	--	--	<17dBm
44	5220	13.76	13.7	13.65	13.52	13.42	13.33	13.21	13.12	<17dBm
48	5240	14.09	--	--	--	--	--	--	--	<17dBm
52	5260	14.43	--	--	--	--	--	--	--	<24dBm
60	5300	14.01	13.89	13.78	13.64	13.55	13.41	13.34	13.21	<24dBm
64	5320	13.35	--	--	--	--	--	--	--	<24dBm
100	5500	12.88	--	--	--	--	--	--	--	<24dBm
116	5580	12.99	12.84	12.77	12.64	12.51	12.41	12.38	12.29	<24dBm
140	5700	13.17	--	--	--	--	--	--	--	<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	11.58	--	--	--	--	--	--	--	<17dBm
44	5220	13.49	13.47	13.45	13.42	13.42	13.30	13.19	13.11	<17dBm
48	5240	13.98	--	--	--	--	--	--	--	<17dBm
52	5260	14.4	--	--	--	--	--	--	--	<24dBm
60	5300	13.74	13.71	13.7	13.68	13.64	13.58	13.51	13.47	<24dBm
64	5320	12.88	--	--	--	--	--	--	--	<24dBm
100	5500	12.37	--	--	--	--	--	--	--	<24dBm
116	5580	12.85	12.83	12.76	12.69	12.56	12.44	12.36	12.3	<24dBm
140	5700	12.78	--	--	--	--	--	--	--	<24dBm

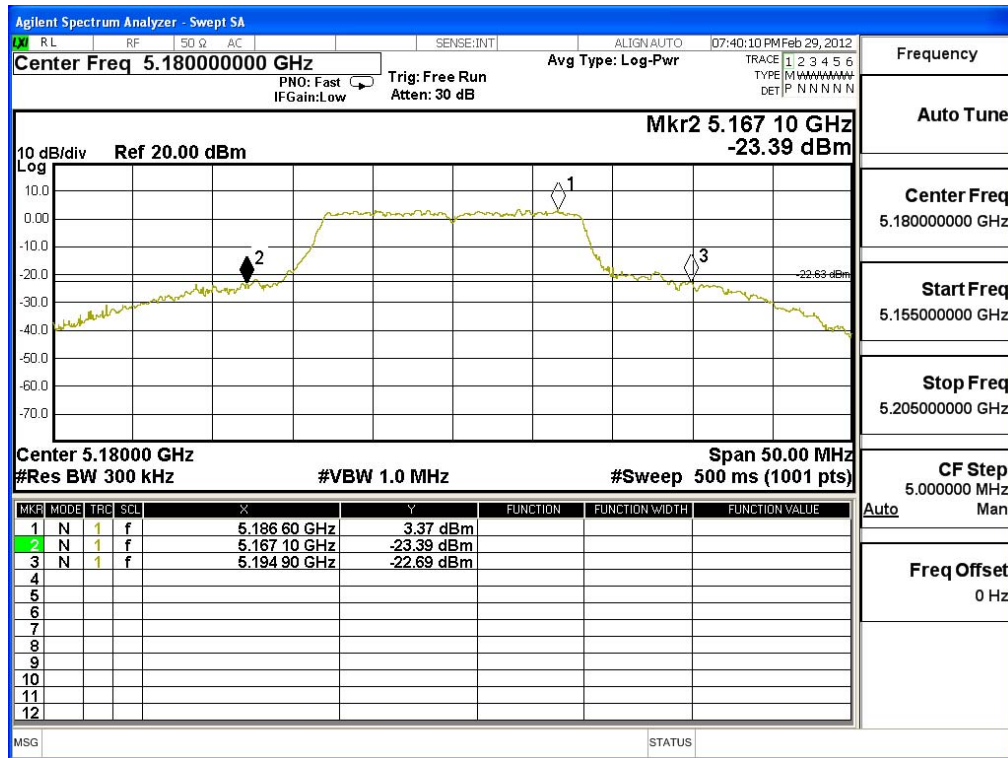
Note: Peak Power Output Value =Reading value on peak power meter + cable loss

**Peak Transmit Power Measurement:**

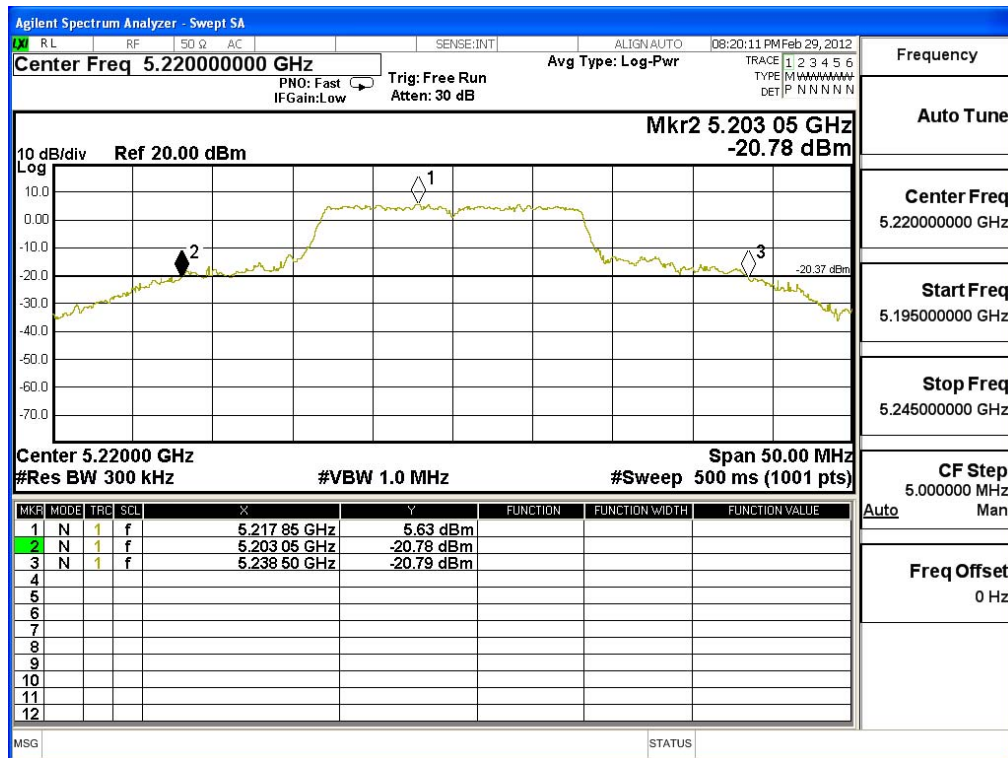
Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	27.800	11.69	17	18.44
44	5220	35.450	13.76	17	19.50
48	5240	36.600	14.09	17	19.63
52	5260	36.450	14.43	24	26.62
60	5300	35.200	14.01	24	26.47
64	5320	36.500	13.35	24	26.62
100	5500	29.150	12.88	24	25.65
116	5580	23.450	12.99	24	24.70
140	5700	31.950	13.17	24	26.04

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

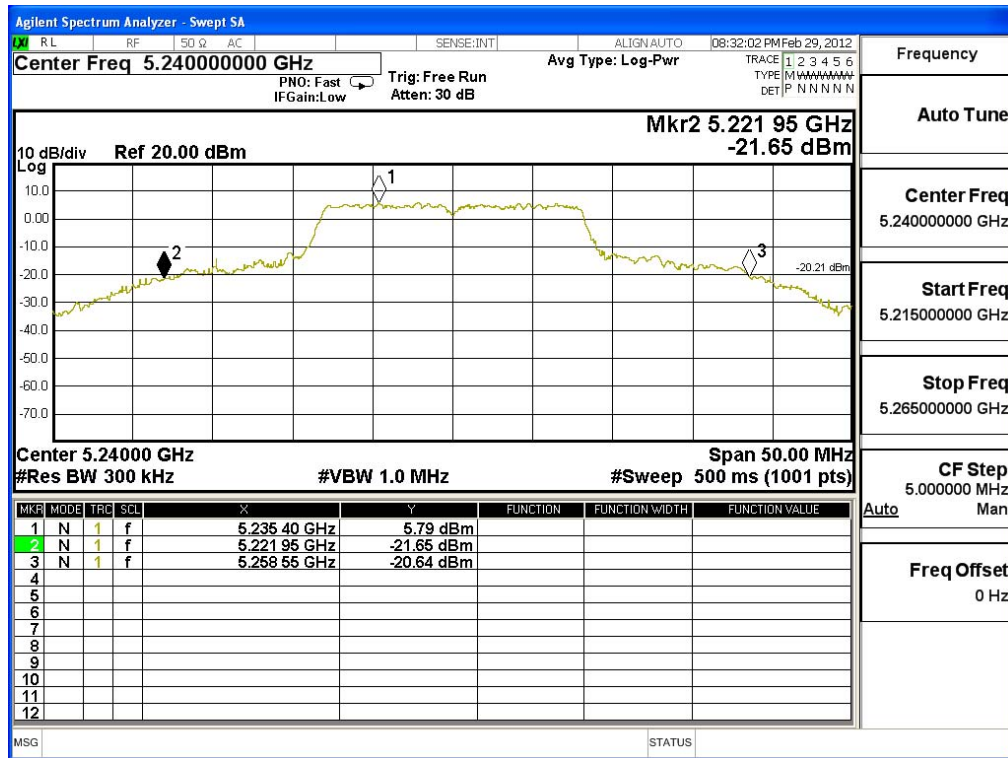
### 26dBc Occupied Bandwidth: Channel 36



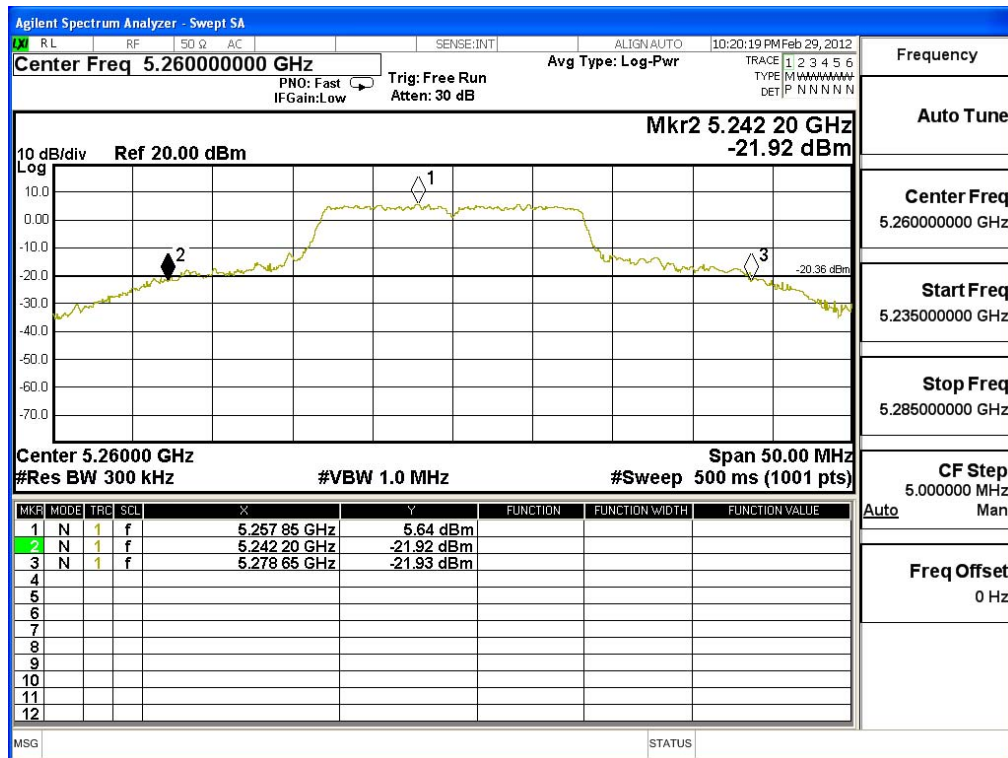
### Channel 40



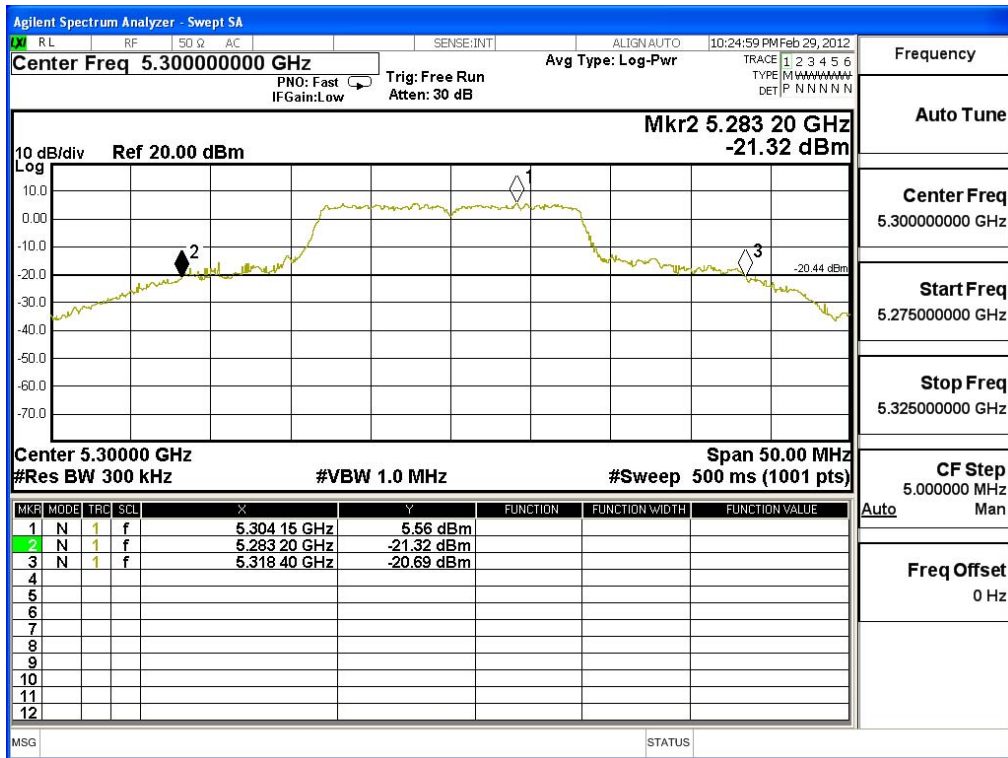
### Channel 48



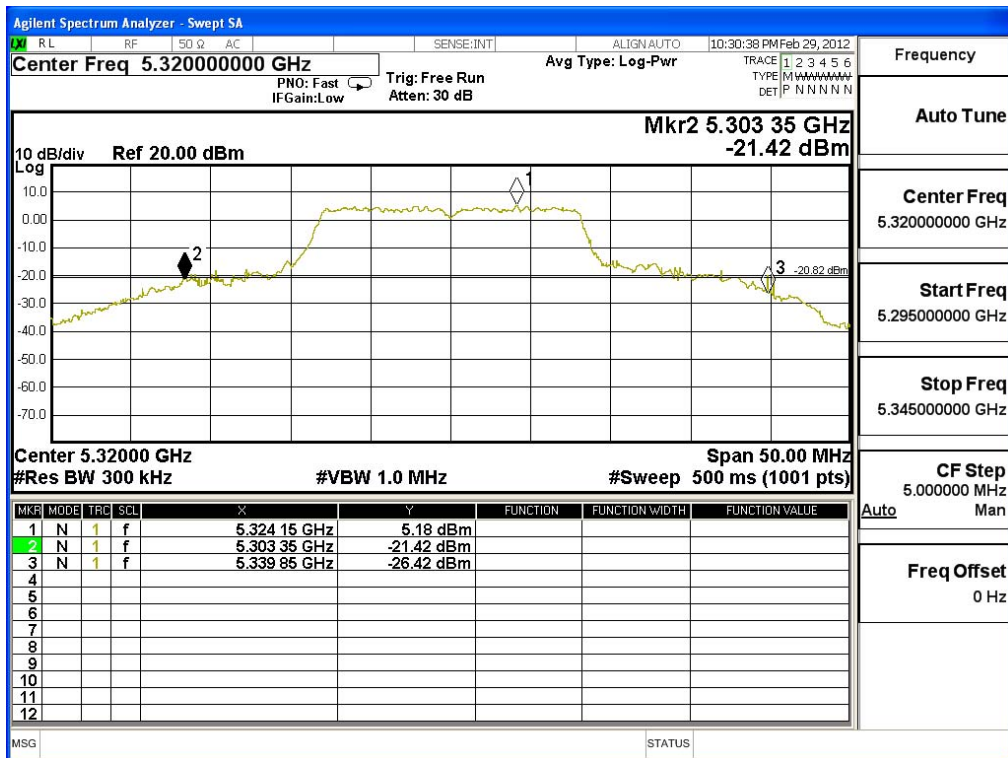
### Channel 52



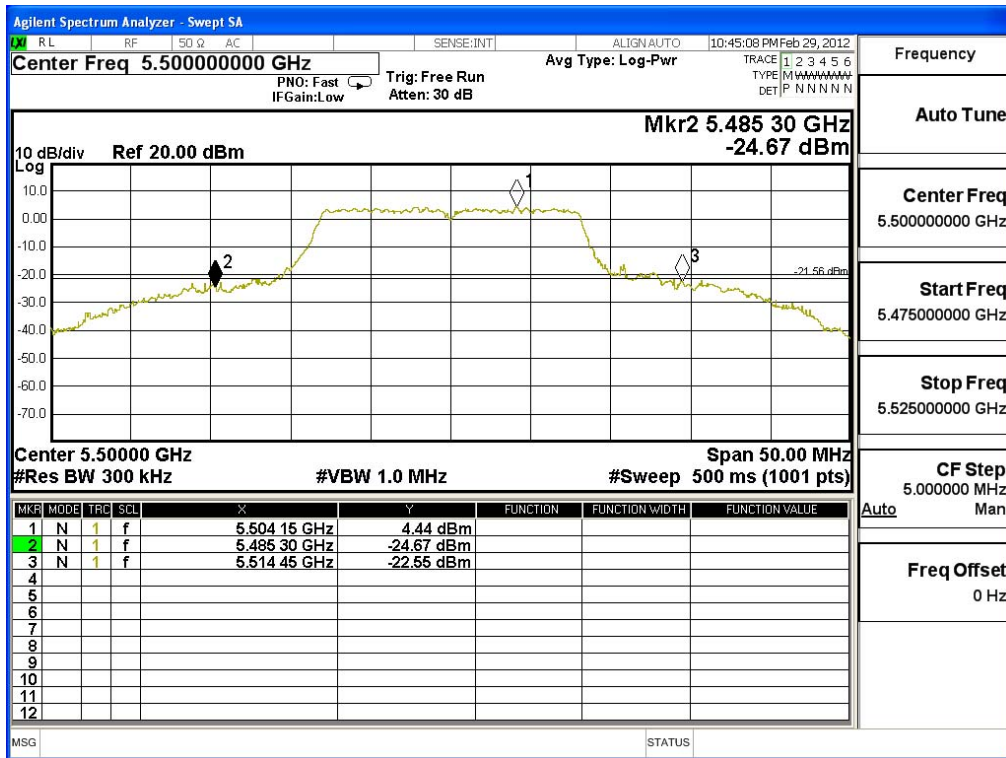
### Channel 60



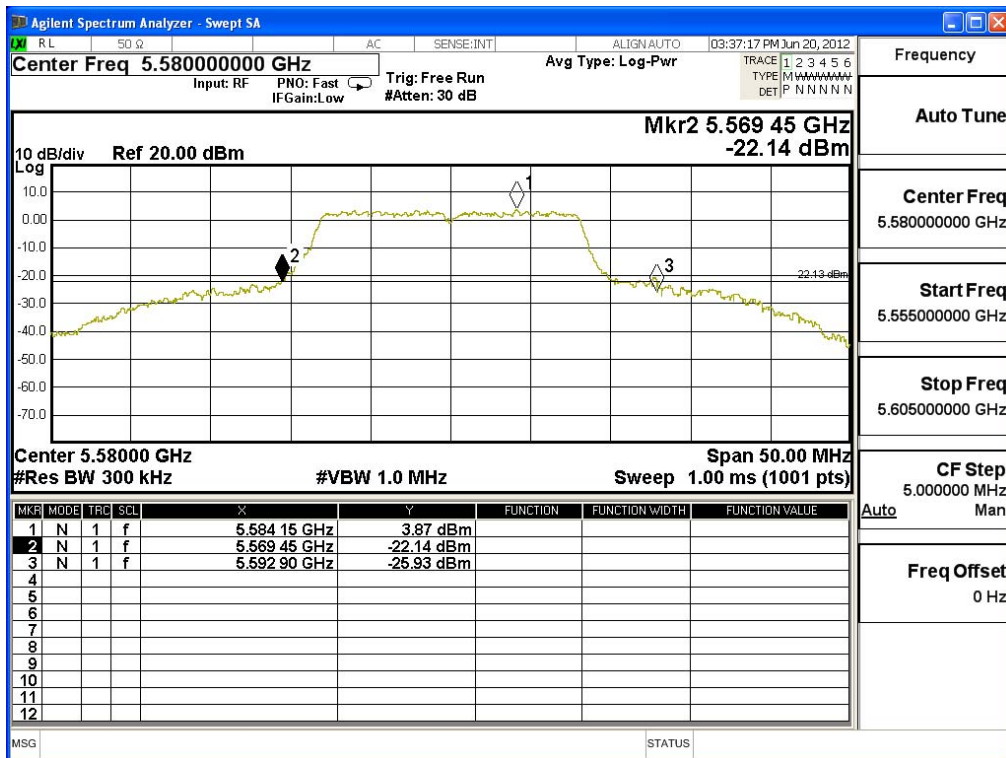
### Channel 64



### Channel 100

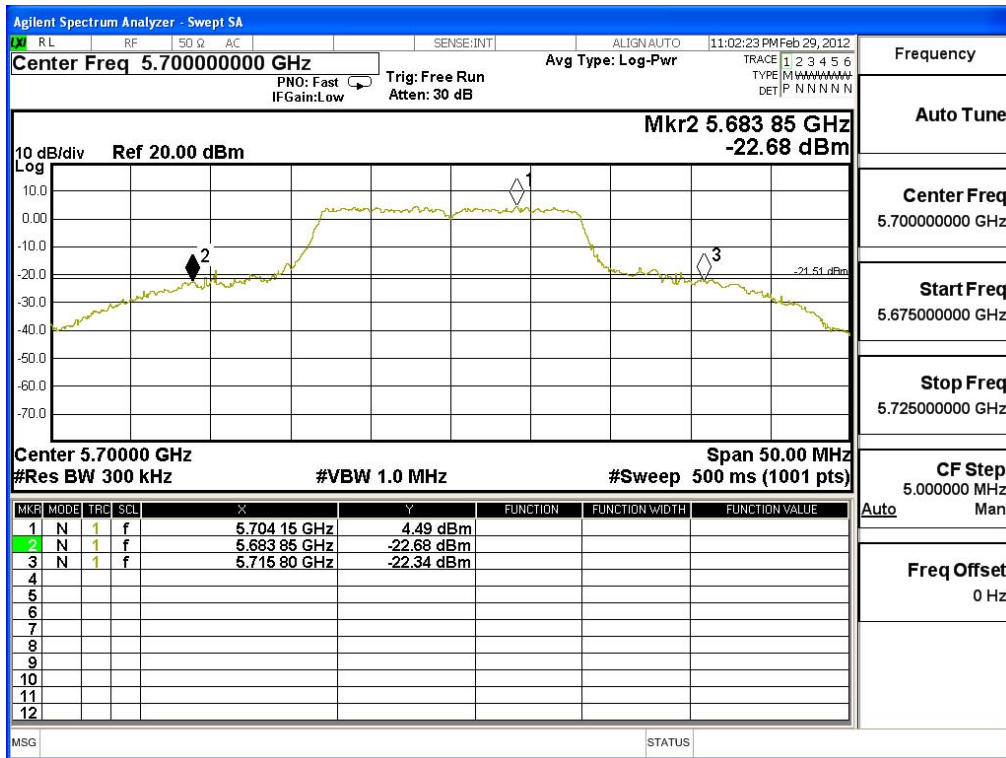


### Channel 116





**Channel 140**



Product : Tablet PC  
 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	10.4	--	--	--	--	--	--	--	<17dBm
44	5220	11.28	11.17	11.05	10.94	10.83	10.77	10.62	10.53	<17dBm
48	5240	10.94	--	--	--	--	--	--	--	<17dBm
52	5260	10.97	--	--	--	--	--	--	--	<24dBm
60	5300	11.27	11.15	11.03	10.89	10.75	10.67	10.51	10.43	<24dBm
64	5320	10.59	--	--	--	--	--	--	--	<24dBm
100	5500	9.84	--	--	--	--	--	--	--	<24dBm
116	5580	9.8	9.72	9.65	9.51	9.43	9.37	9.23	9.16	<24dBm
140	5700	10.39	--	--	--	--	--	--	--	<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	10.24	--	--	--	--	--	--	--	<17dBm
44	5220	10.98	10.85	10.74	10.61	10.52	10.45	10.32	10.24	<17dBm
48	5240	11.73	--	--	--	--	--	--	--	<17dBm
52	5260	11	--	--	--	--	--	--	--	<24dBm
60	5300	10.46	10.38	10.25	10.11	10.05	9.94	9.83	9.78	<24dBm
64	5320	9.83	--	--	--	--	--	--	--	<24dBm
100	5500	10.78	--	--	--	--	--	--	--	<24dBm
116	5580	10.37	10.25	10.19	10.09	10	9.91	9.82	9.73	<24dBm
140	5700	9.87	--	--	--	--	--	--	--	<24dBm

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

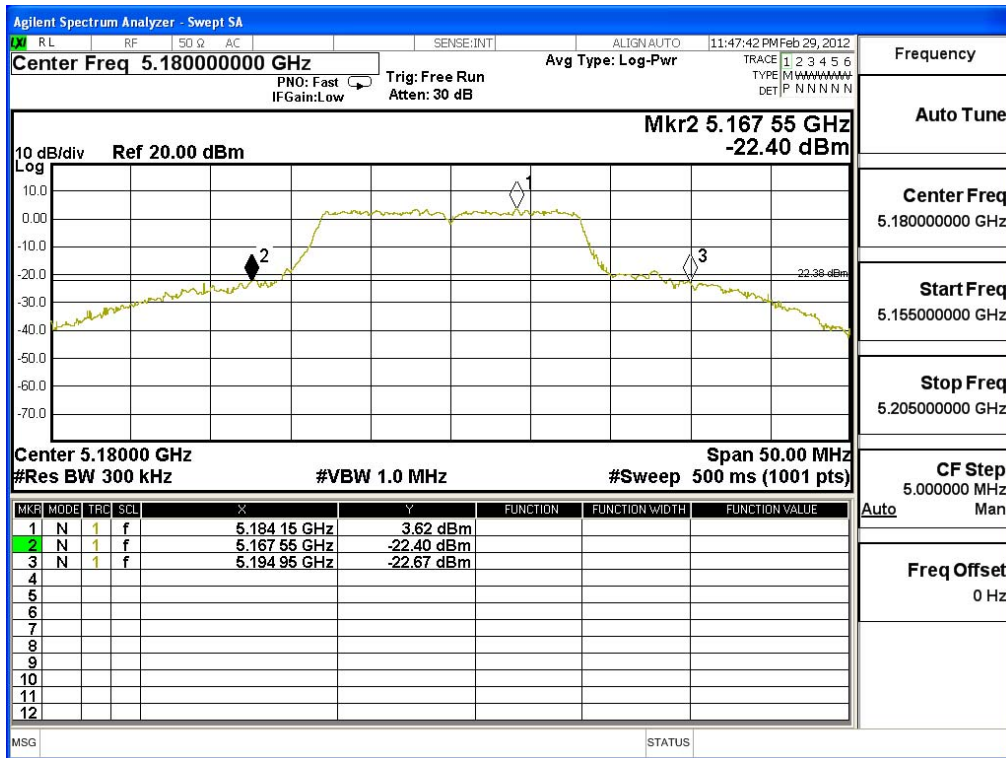
**Peak Transmit Power Measurement:**
**CHAIN A+B**

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	23.600	10.40	10.24	13.33	17	17.73
44	5220	29.950	11.28	10.98	14.14	17	18.76
48	5240	28.700	10.94	11.73	14.36	17	18.58
52	5260	34.150	10.97	11.00	14.00	24	26.33
60	5300	28.850	11.27	10.46	13.89	24	25.60
64	5320	23.850	10.59	9.83	13.24	24	24.77
100	5500	26.600	9.84	10.78	13.35	24	25.25
116	5580	20.800	9.80	10.37	13.10	24	24.18
140	5700	33.900	10.39	9.87	13.15	24	26.30

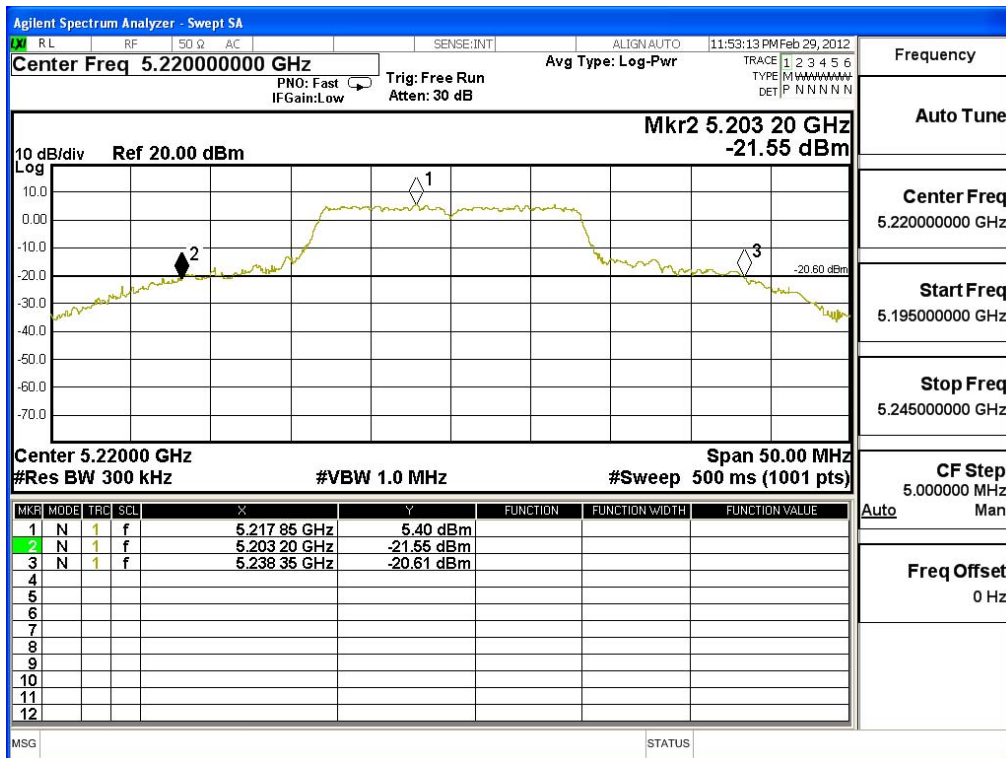
Note:

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.

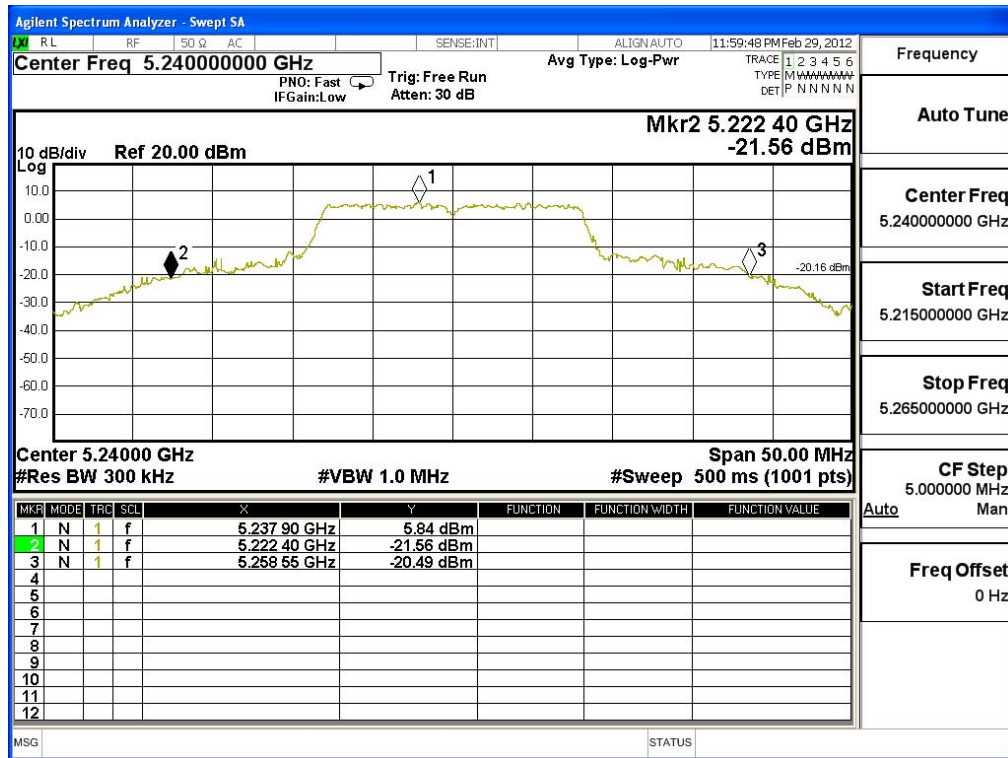
### 26dBc Occupied Bandwidth: Channel 36 -Chain A



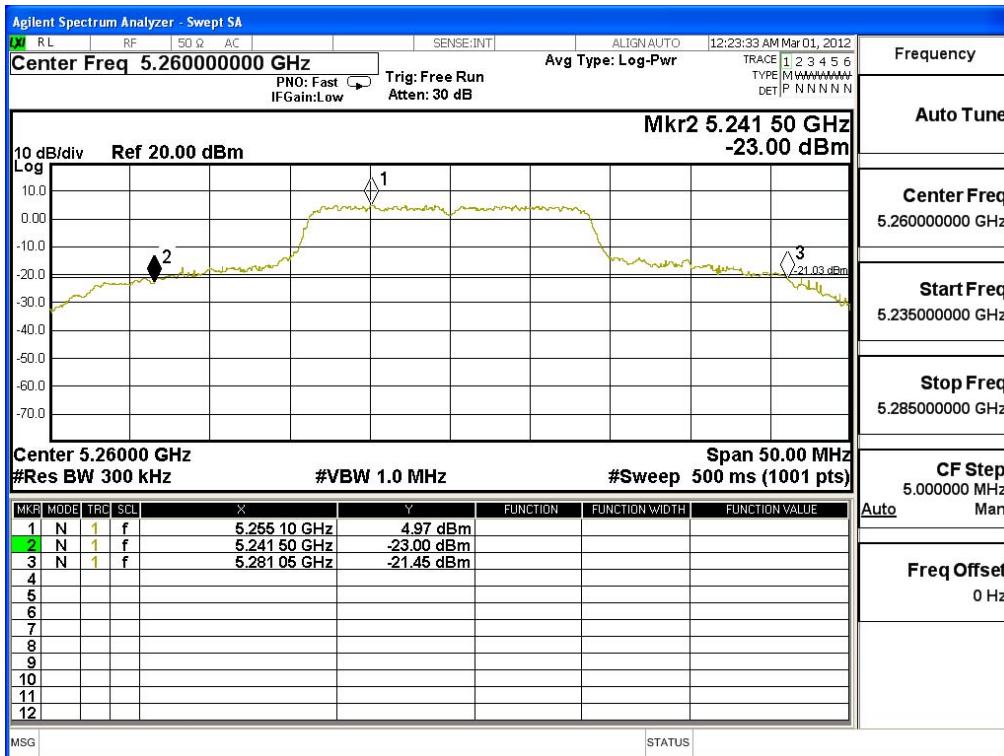
### Channel 44 -Chain A



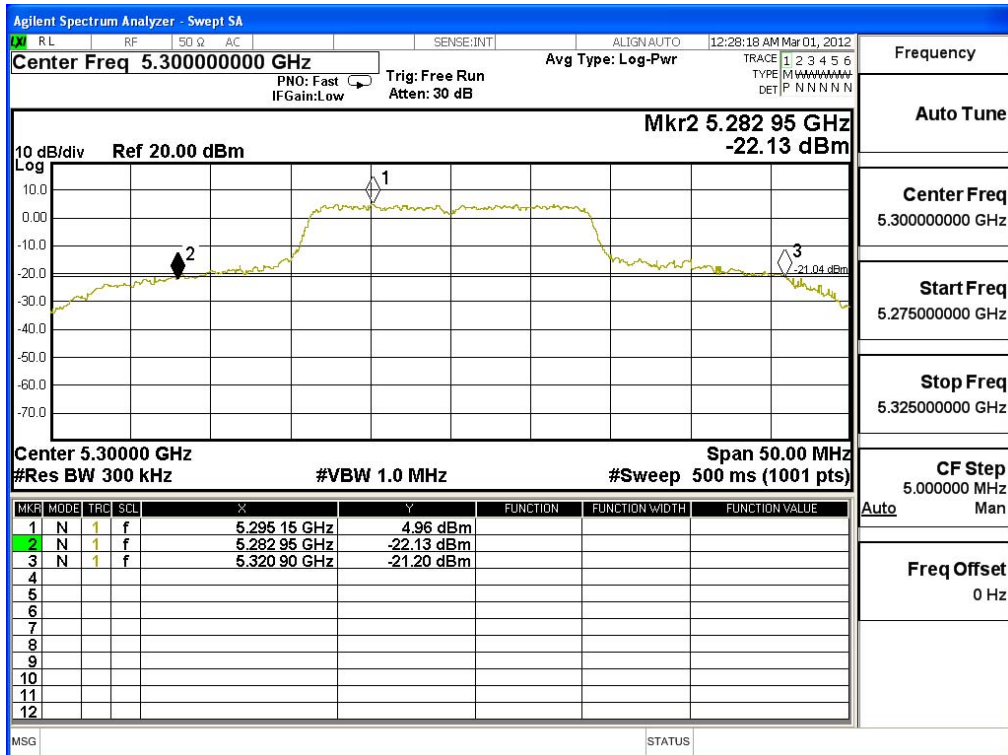
Channel 48 -Chain A



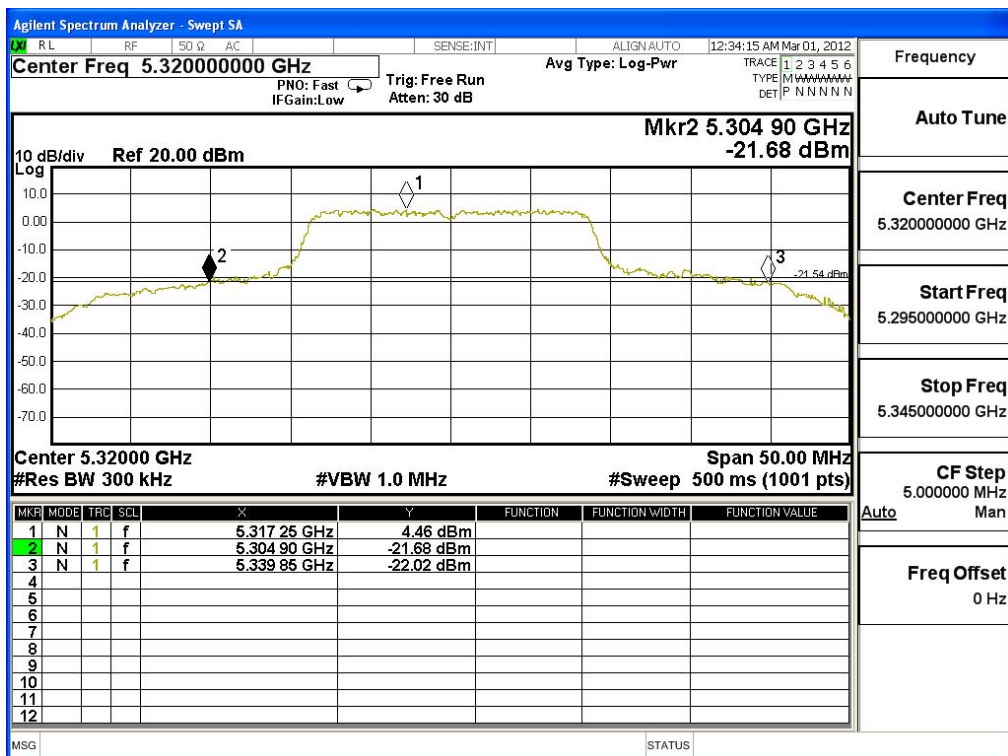
Channel 52 -Chain A



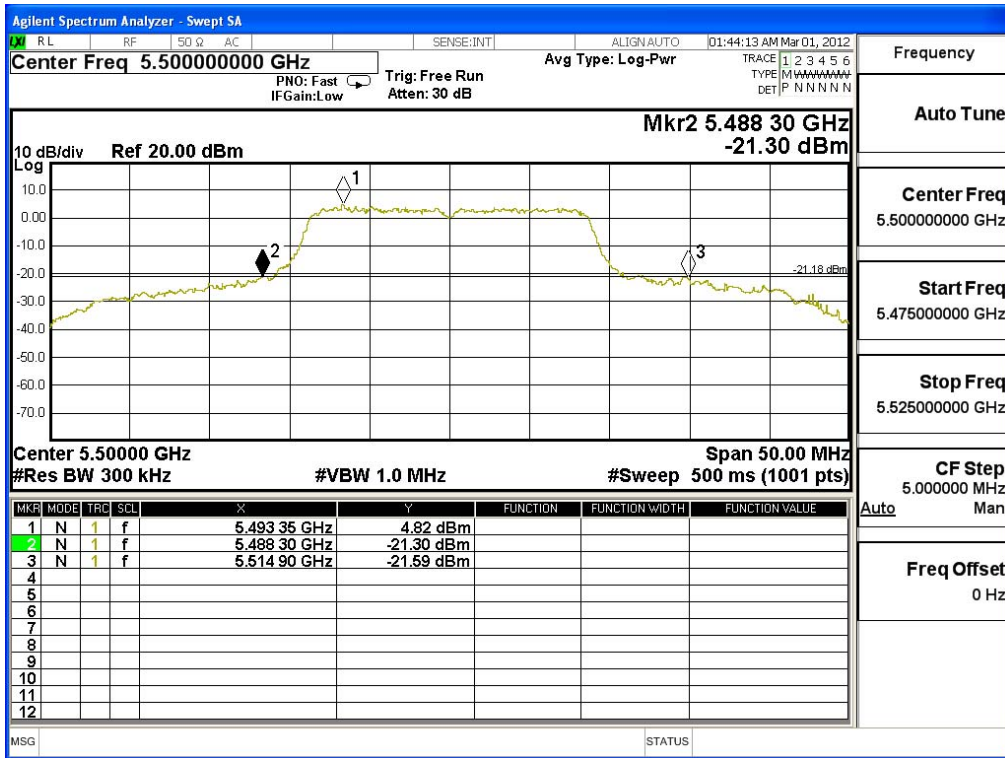
### Channel 60 -Chain A



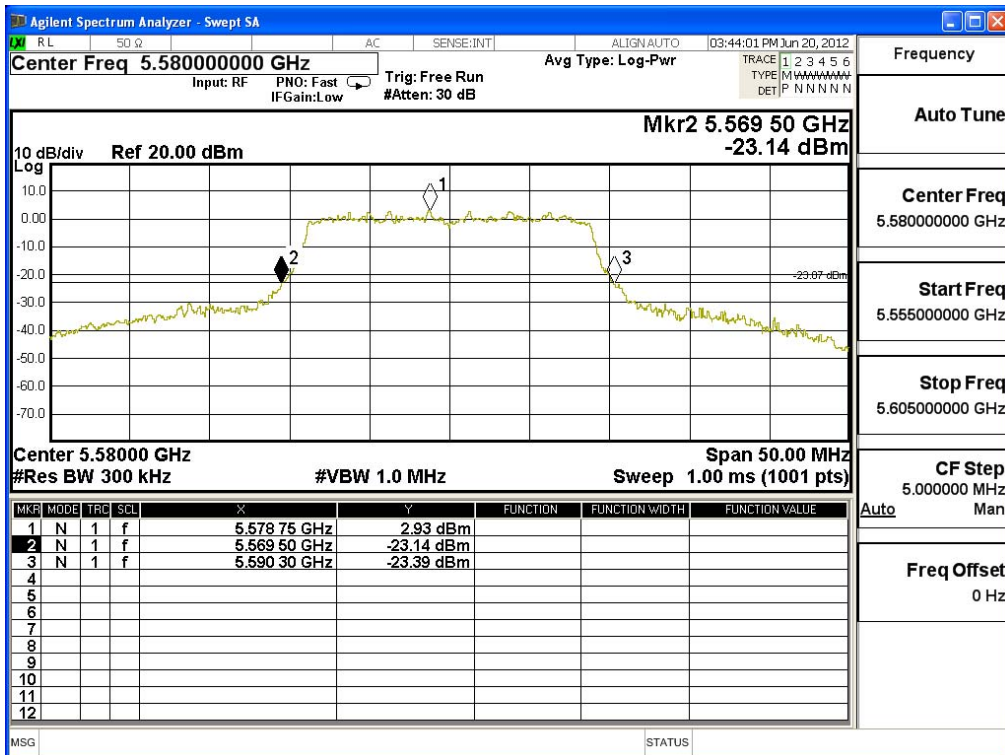
### Channel 64 -Chain A



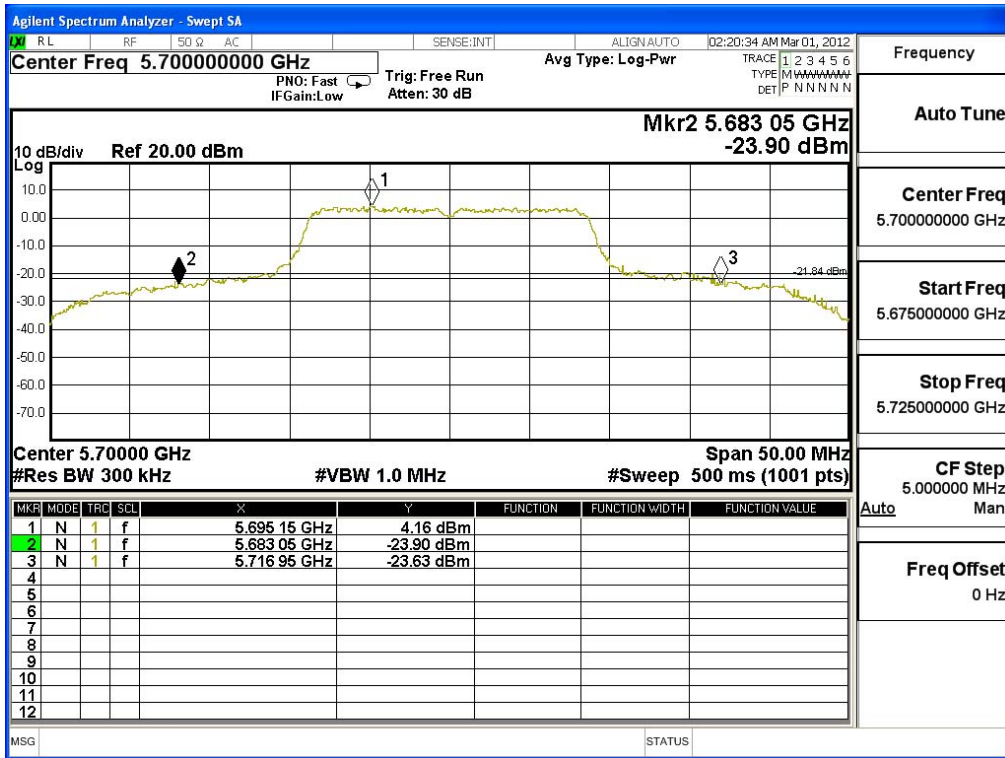
### Channel 100 -Chain A



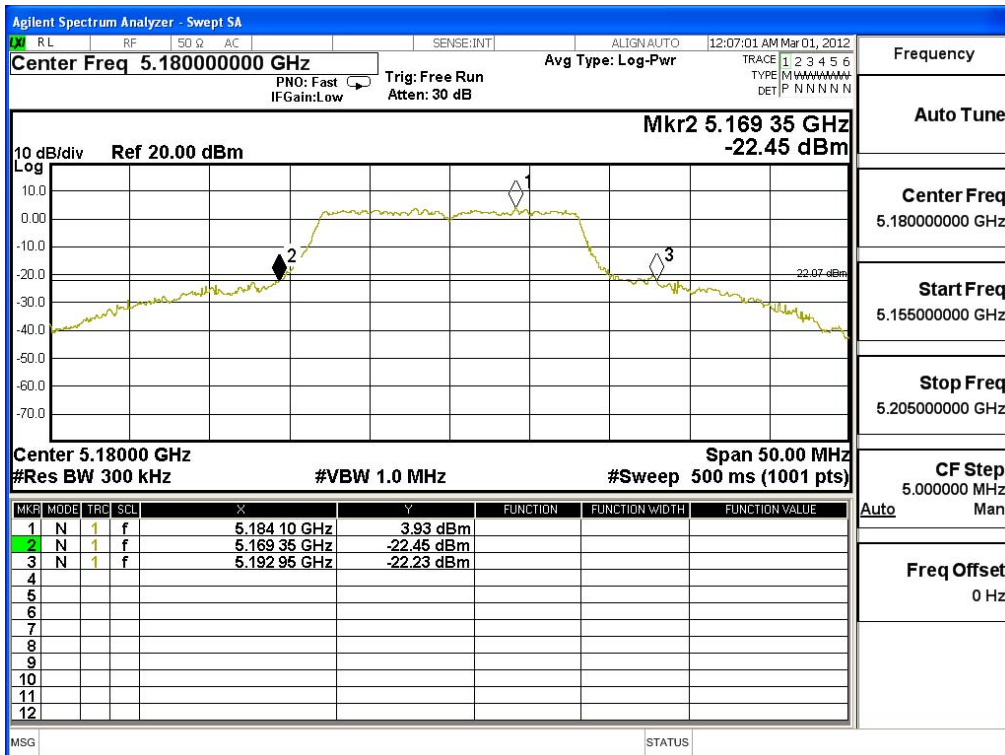
### Channel 116 -Chain A



Channel 140 -Chain A

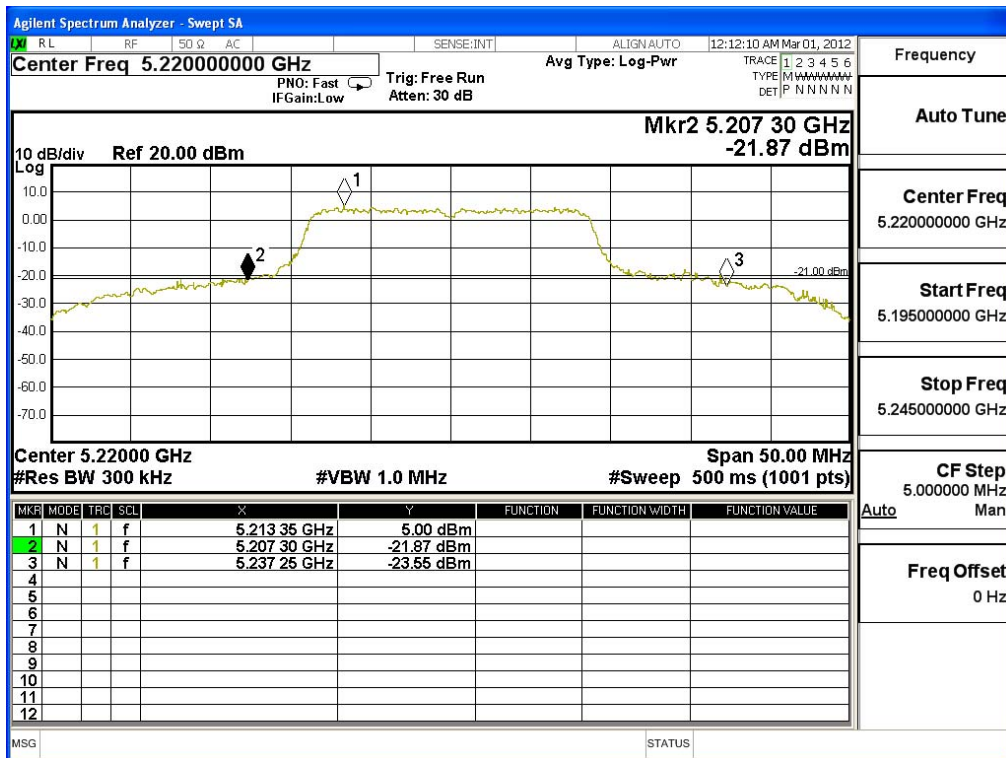


Channel 36 -Chain B

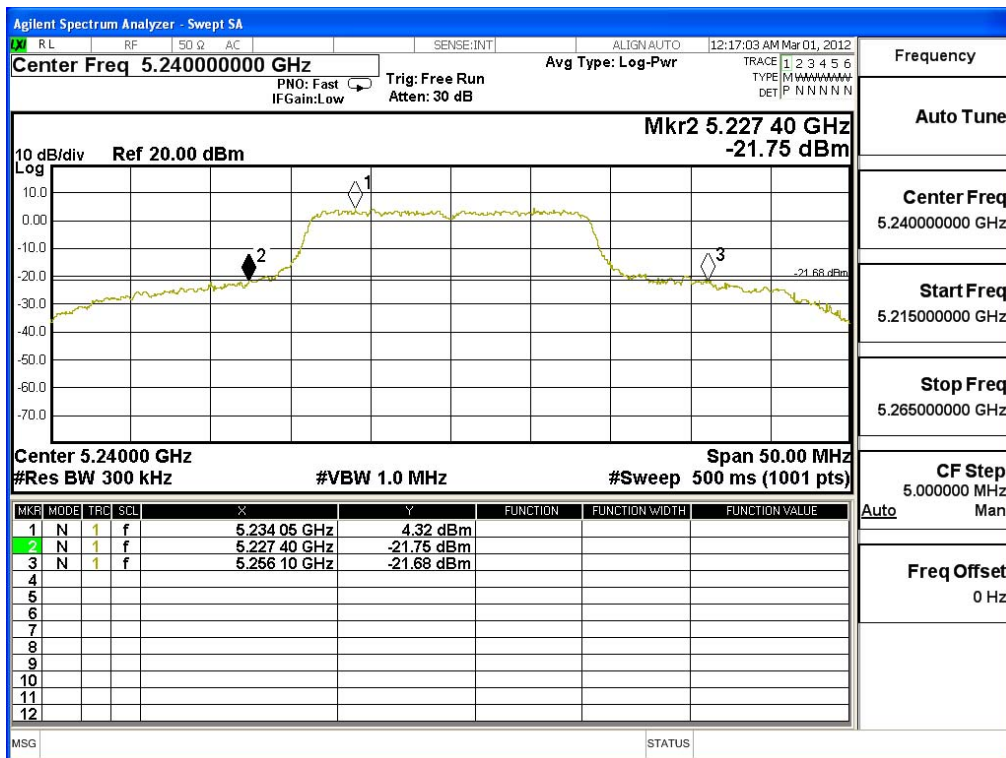




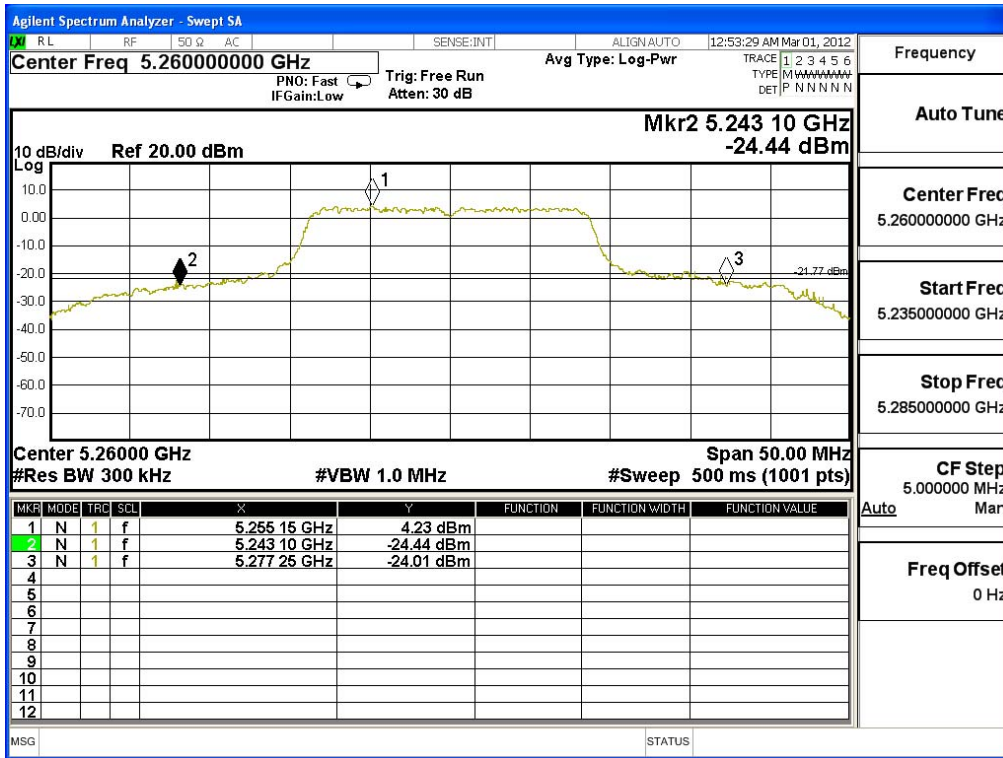
**Channel 44 -Chain B**



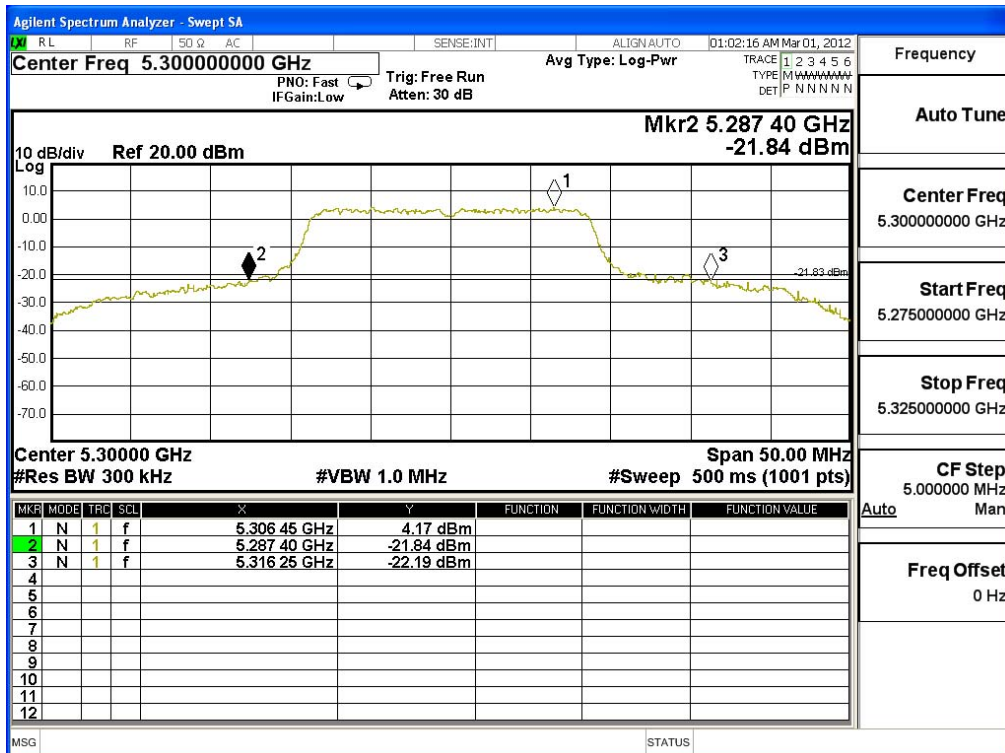
**Channel 48 -Chain B**



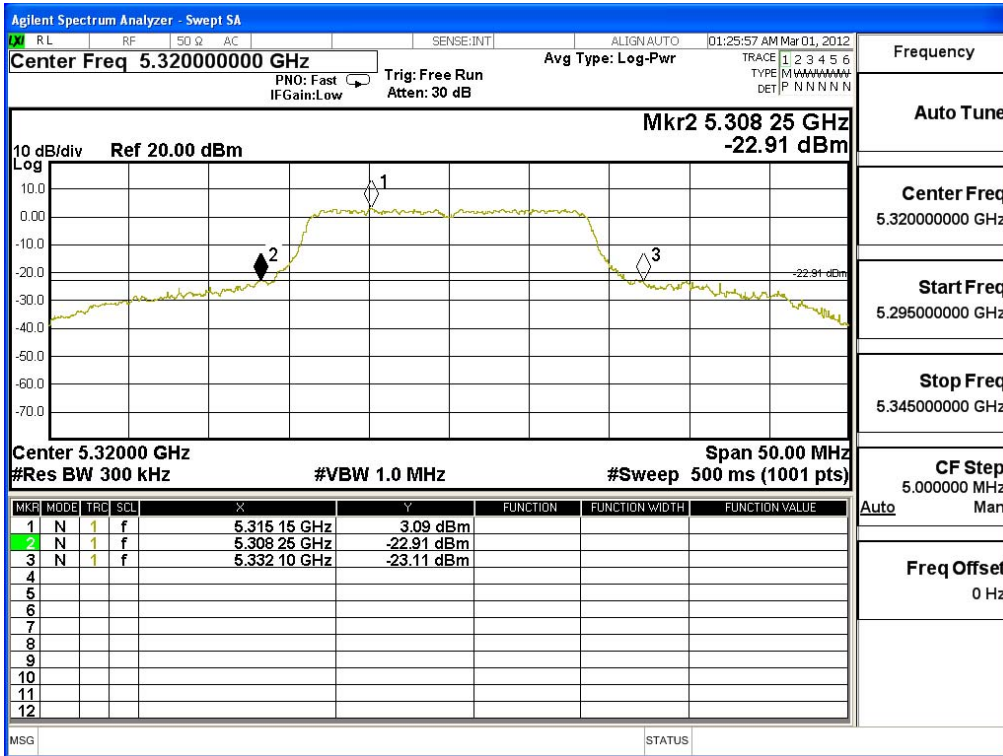
**Channel 52 -Chain B**



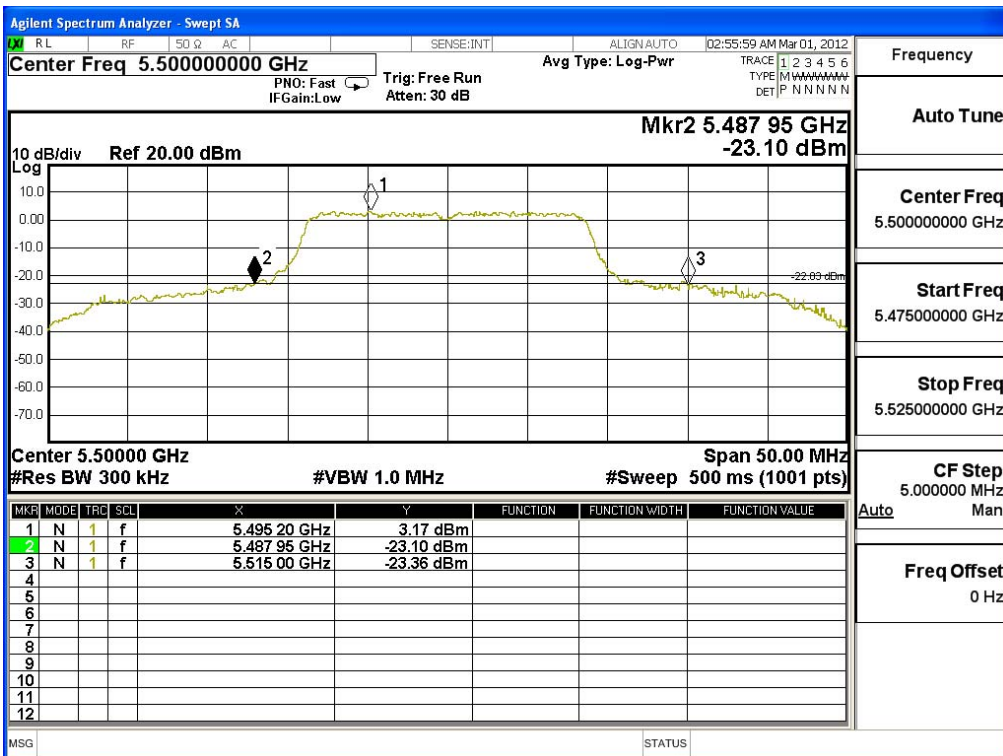
**Channel 60 -Chain B**



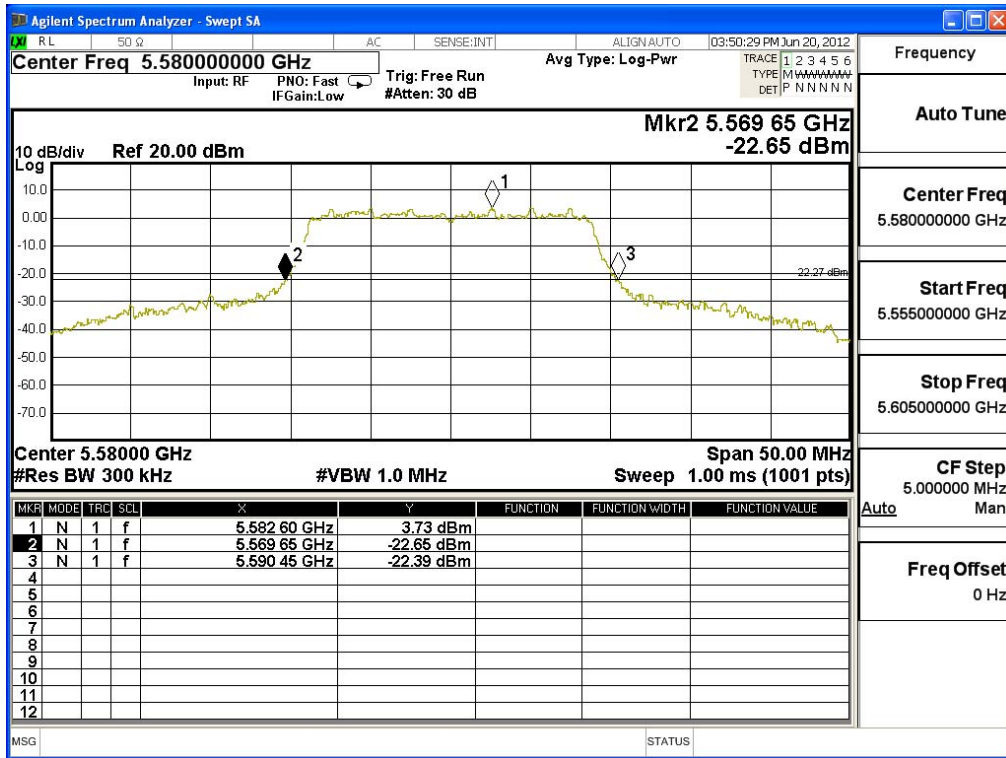
### Channel 64 -Chain B



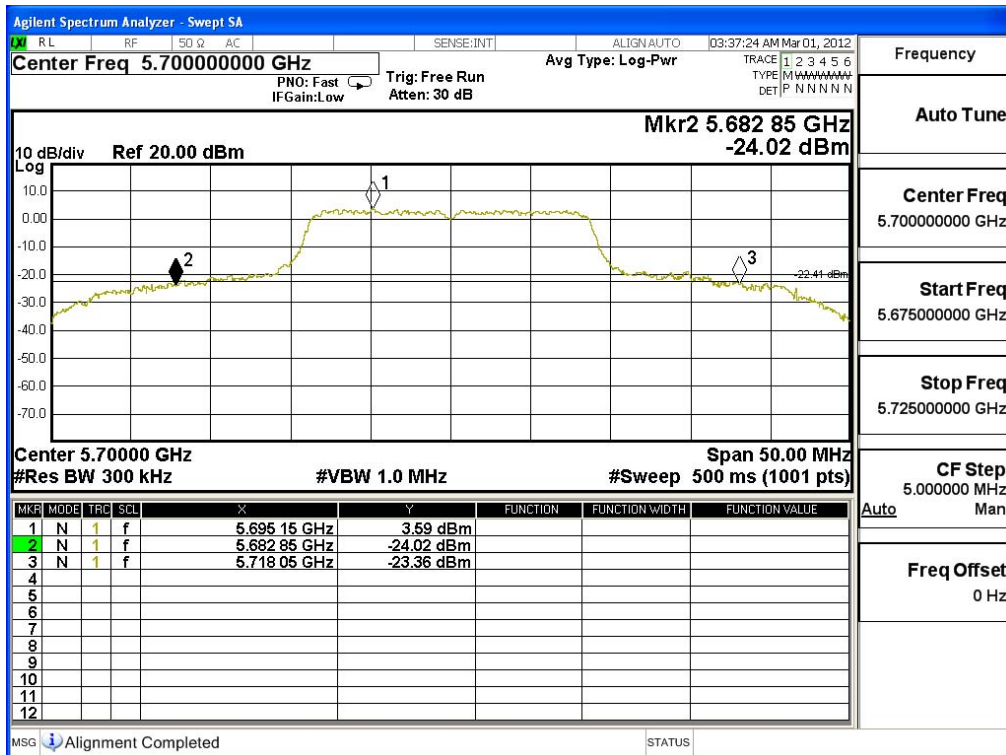
### Channel 100 -Chain B



### Channel 116 -Chain B



### Channel 140 -Chain B



Product : Tablet PC  
 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	9.96	--	--	--	--	--	--	--	<17dBm
46	5230	9.83	9.75	9.63	9.51	9.43	9.34	9.27	9.12	<17dBm
54	5270	10.92	--	--	--	--	--	--	--	<17dBm
62	5310	10.31	10.28	10.16	10.06	9.95	9.82	9.77	9.61	<24dBm
102	5510	8.96	--	--	--	--	--	--	--	<24dBm
110	5550	8.88	8.75	8.61	8.49	8.41	8.32	8.27	8.14	<24dBm
134	5670	9.78	--	--	--	--	--	--	--	<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	9.54	--	--	--	--	--	--	--	<17dBm
46	5230	10.52	10.46	10.37	10.25	10.13	10.08	10.01	9.94	<17dBm
54	5270	9.52	--	--	--	--	--	--	--	<17dBm
62	5310	9.23	9.18	9.1	9.02	8.95	8.83	8.74	8.66	<24dBm
102	5510	8.62	--	--	--	--	--	--	--	<24dBm
110	5550	9.53	9.46	9.34	9.26	9.18	9.07	8.96	8.81	<24dBm
134	5670	8.76	--	--	--	--	--	--	--	<24dBm

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

### Peak Transmit Power Measurement:

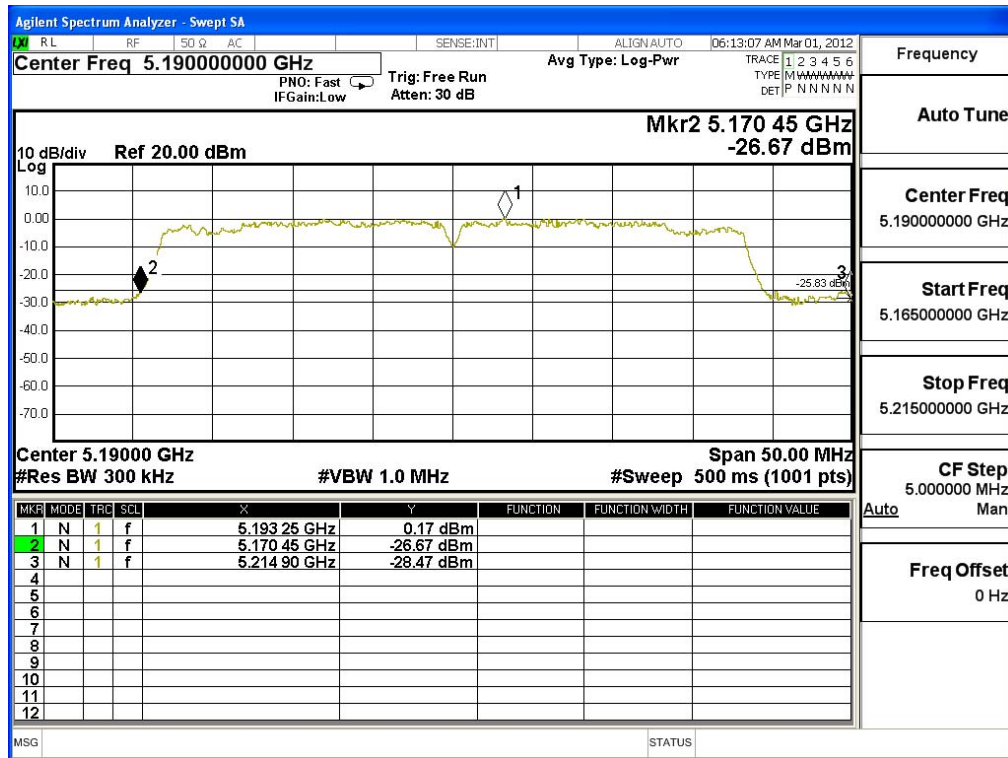
#### CHAIN A+B

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	38.900	9.96	9.54	12.77	17	19.90
46	5230	38.350	9.83	10.52	13.20	17	19.84
54	5270	38.200	10.92	9.52	13.29	24	26.82
62	5310	38.850	10.31	9.23	12.81	24	26.89
102	5510	38.900	8.96	8.62	11.80	24	26.90
110	5550	39.000	8.88	9.53	12.23	24	26.91
134	5670	38.800	9.78	8.76	12.31	24	26.89

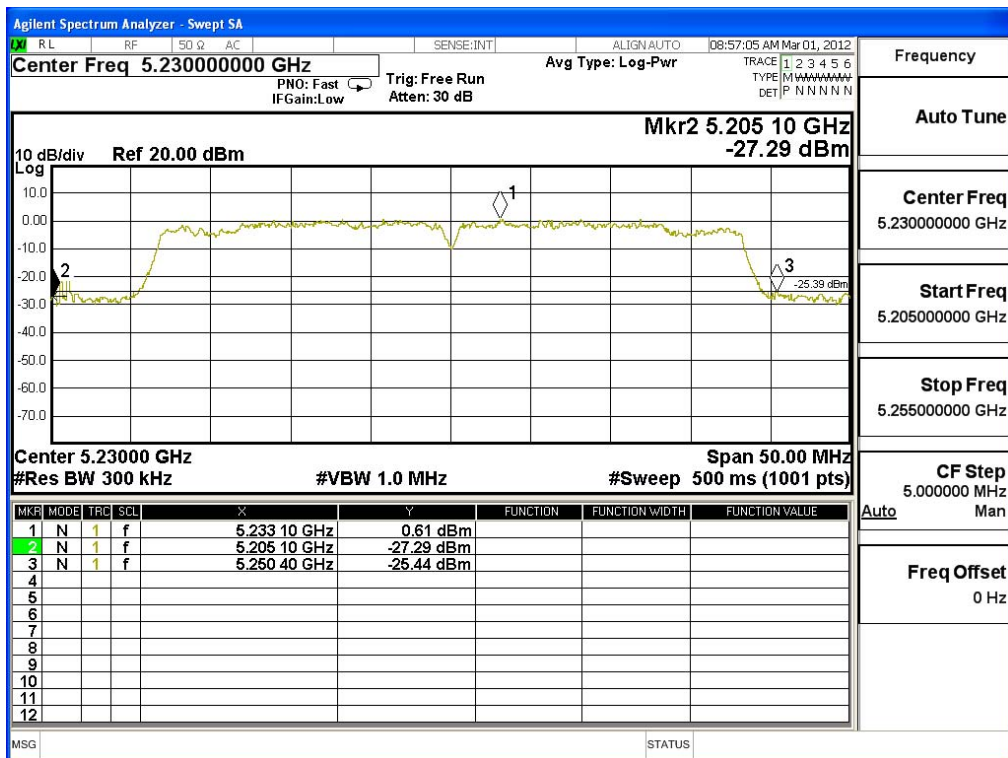
#### Note:

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.

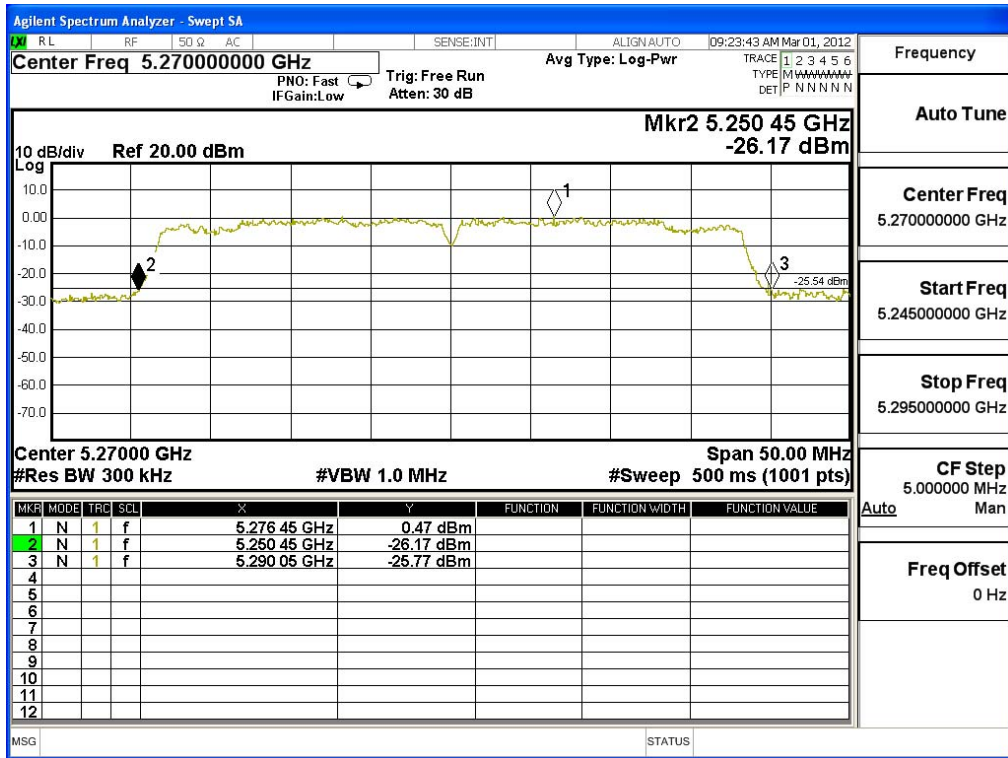
### 26dBc Occupied Bandwidth: Channel 38 – Chain A



### Channel 46 – Chain A



Channel 54 – Chain A



Channel 62 – Chain A

