



Test Report

Product Name	Plug-In PC.
Model No	PN1HXXXXXX(X=0~9,A~Z or Blank)
FCC ID	FKGPN1H

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

Date of Receipt	Jul. 30, 2011
Issued Date	Aug. 30, 2011
Report No.	117148R-RFUSP46V01
Report Version	V1.0

The test results relate only to the samples tested.


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Test Report Certification

Issued Date: Aug. 30, 2011

Report No.: 117148R-RFUSP46V01



Product Name	Plug-In PC.	
Applicant	Twinhead International Corp	
Address	10F,550 Rueiguand Rd Neihu,Taipei,Taiwan 114,ROC	
Manufacturer	Twinhead International Corp	
Model No.	PN1HXXXXXX(X=0~9,A~Z or Blank)	
FCC ID.	FKGPN1H	
EUT Rated Voltage	AC 100-240V, 50-60Hz	
EUT Test Voltage	AC 120V/60Hz	
Trade Name	Twinhead	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2010 ANSI C63.4: 2009	 <small>NVLAP Lab Code: 200533-0</small>
Test Result	Complied	

The Test Results relate only to the samples tested.

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Tested By : Sabrina Tsai
(Engineer / Sabrina Tsai)

Approved By : [Signature]
(Manager / Vincent Lin)



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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Plug-In PC.
Trade Name	Twinhead
FCC ID.	FKGPN1H
Model No.	PN1HXXXXXX(X=0~9,A~Z or Blank)
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	Dipole
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: Panasonic, M/N: CF-AA5713A M1 Input: AC 100-240V, 1.4-0.7A, 50/60Hz Output: DC 15.6V $\overline{=}$ 7.05A Cable Out: Non-Shielded, 1.8m, with one ferrite core bonded.
Contain Module	Intel / 62205ANHMW

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	ARISTOTLE ENTERPRISES	RFA-25-C52M3-B70C463	2dBi

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 Plug-In PC. with a built-in WLAN transceiver.
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.

1.2. Operational Description

The EUT is a Plug-In PC with a built-in 2.4GHz and 5GHz WLAN transceiver. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b). The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11a/g).

The device provided of eight kinds of transmitting speed 14.4,28.9,43.3,57.8,86.7,115.6,130 and 144.4Mbps in 802.11n(20M-BW) mode and 30,60,90,120,180,240,270 and 300 Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n), the IEEE 802.11n is Multiple In, Multiple Out” (MIMO) technology.

The device adapts direct sequence spread spectrum modulation. The antenna provides diversity function to improve the receiving function and the antennas to support 2(Transmit) × 2(Receive) MIMO technology.

This Plug-In PC, compliant with IEEE 802.11b/g/n, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the Plug-In PC Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b/g/n network.

The Device no radar detection and no ad-hoc operation in the DFS band, another information please refer to users manual.

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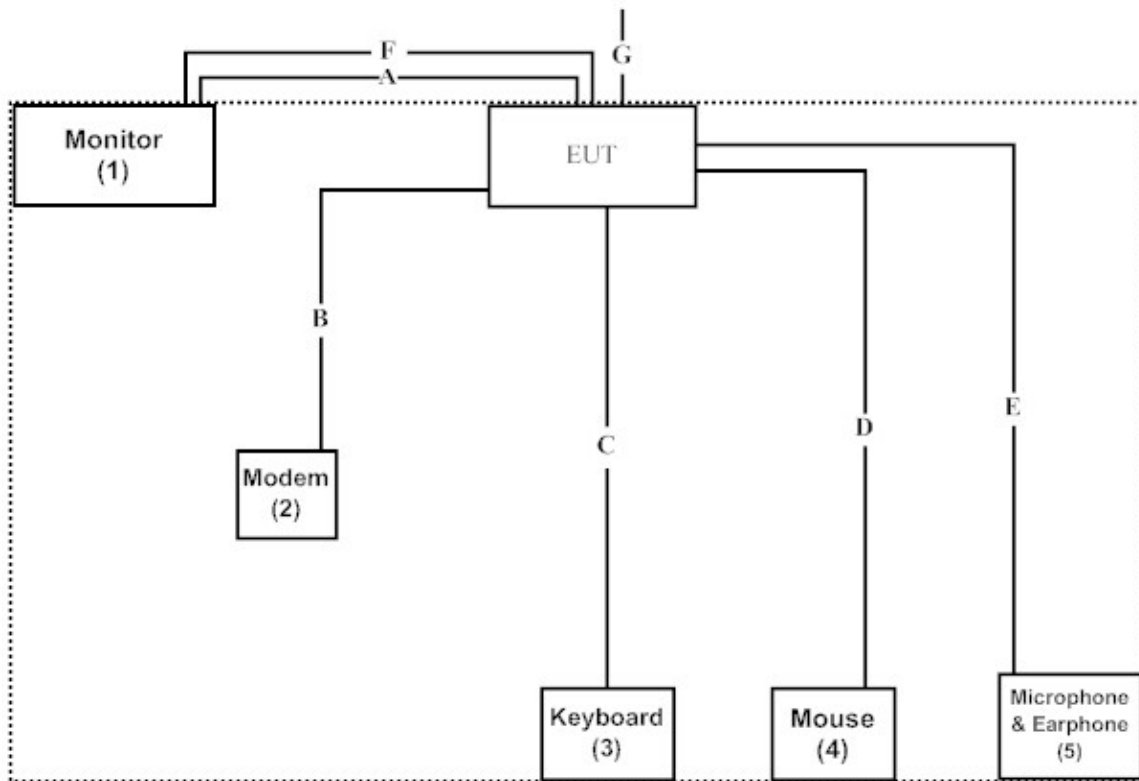
1.3. Tested System Details

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	LG	W2261VT	907YHZK07373	N/A
(2) Modem	ACEEX	DM-1414	0102027550	N/A
(3) Keyboard	Logitech	Y-U0009	LZ027HU	N/A
(4) USB Mouse	DELL	MO56UC	G0X01JHA	N/A
(5) Microphone & Earphone	Ergotech	ET-E201	N/A	N/A

Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.8m
B	Modem Cable	Shielded, 1.5m
C	USB Keyboard Cable	Shielded, 1.8m
D	USB Mouse Cable	Shielded, 1.8m
E	Microphone & Earphone Cable	Non-Shielded, 2.0m
F	HDMI Cable	Shielded, 1.2m
G	RJ45 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 “DRTU v1.2.12-0197” 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



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FCC Accreditation Number: TW1014



Testing Laboratory
0914

2. Conducted Emission

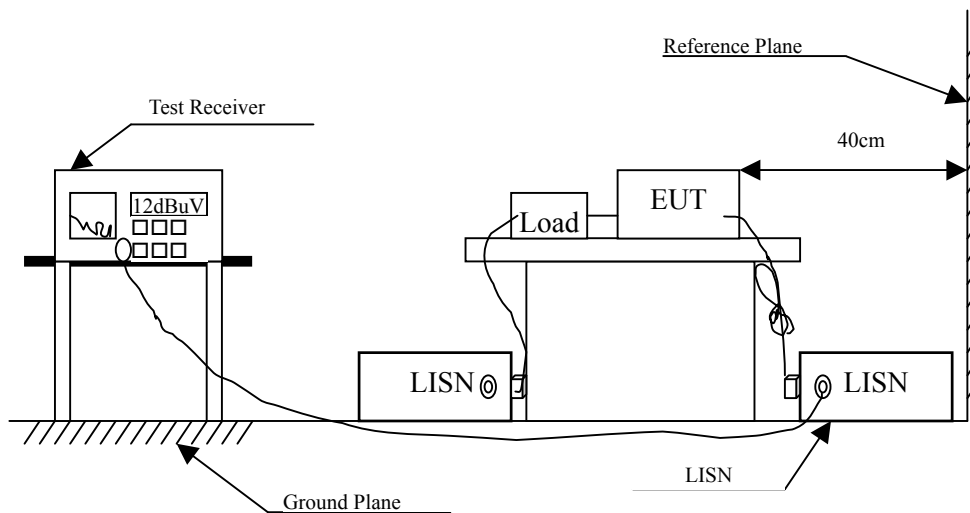
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2011	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2011	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2011	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2011	
5	No.1 Shielded Room			N/A	

Note: All equipments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
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: 2009 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, 2009; tested to DTS test procedure of Aug 2002 DA 02-2138 for compliance to FCC 47CFR Subpart E requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5190MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.197	9.709	28.120	37.829	-26.828	64.657
0.291	9.653	26.720	36.373	-25.598	61.971
0.486	9.640	27.400	37.040	-19.360	56.400
0.728	9.634	27.340	36.974	-19.026	56.000
1.193	9.670	31.260	40.930	-15.070	56.000
2.166	9.680	20.520	30.200	-25.800	56.000
Average					
0.197	9.709	14.450	24.159	-30.498	54.657
0.291	9.653	14.910	24.563	-27.408	51.971
0.486	9.640	15.160	24.800	-21.600	46.400
0.728	9.634	13.220	22.854	-23.146	46.000
1.193	9.670	19.550	29.220	-16.780	46.000
2.166	9.680	11.840	21.520	-24.480	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 : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5190MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.162	9.751	31.280	41.031	-24.626	65.657
0.224	9.700	12.340	22.040	-41.846	63.886
0.349	9.657	19.600	29.257	-31.057	60.314
0.431	9.649	22.880	32.529	-25.442	57.971
0.732	9.655	28.020	37.675	-18.325	56.000
1.166	9.670	26.260	35.930	-20.070	56.000
Average					
0.162	9.751	3.370	13.121	-42.536	55.657
0.224	9.700	0.870	10.570	-43.316	53.886
0.349	9.657	10.830	20.487	-29.827	50.314
0.431	9.649	14.650	24.299	-23.672	47.971
0.732	9.655	18.520	28.175	-17.825	46.000
1.166	9.670	14.850	24.520	-21.480	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 : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5270MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.201	9.706	27.980	37.686	-26.857	64.543
0.334	9.650	25.480	35.130	-25.613	60.743
0.439	9.640	27.300	36.940	-20.803	57.743
0.736	9.636	30.280	39.916	-16.084	56.000
1.173	9.670	29.260	38.930	-17.070	56.000
1.591	9.680	22.860	32.540	-23.460	56.000
Average					
0.201	9.706	19.470	29.176	-25.367	54.543
0.334	9.650	13.970	23.620	-27.123	50.743
0.439	9.640	15.040	24.680	-23.063	47.743
0.736	9.636	22.340	31.976	-14.024	46.000
1.173	9.670	17.770	27.440	-18.560	46.000
1.591	9.680	12.410	22.090	-23.910	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 : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5270MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.158	9.756	25.660	35.416	-30.355	65.771
0.291	9.663	18.880	28.543	-33.428	61.971
0.435	9.648	22.680	32.328	-25.529	57.857
0.779	9.670	25.040	34.710	-21.290	56.000
1.216	9.670	25.060	34.730	-21.270	56.000
2.572	9.690	13.880	23.570	-32.430	56.000
Average					
0.158	9.756	1.710	11.466	-44.305	55.771
0.291	9.663	8.430	18.093	-33.878	51.971
0.435	9.648	13.820	23.468	-24.389	47.857
0.779	9.670	15.590	25.260	-20.740	46.000
1.216	9.670	15.160	24.830	-21.170	46.000
2.572	9.690	6.560	16.250	-29.750	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 : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5590MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.209	9.701	27.640	37.341	-26.973	64.314
0.295	9.652	23.700	33.352	-28.505	61.857
0.408	9.647	26.860	36.507	-22.122	58.629
0.533	9.640	28.540	38.180	-17.820	56.000
0.697	9.630	29.460	39.090	-16.910	56.000
1.193	9.670	30.720	40.390	-15.610	56.000
Average					
0.209	9.701	20.990	30.691	-23.623	54.314
0.295	9.652	10.520	20.172	-31.685	51.857
0.408	9.647	17.540	27.187	-21.442	48.629
0.533	9.640	15.290	24.930	-21.070	46.000
0.697	9.630	20.470	30.100	-15.900	46.000
1.193	9.670	19.010	28.680	-17.320	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 : Plug-In PC.
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps) (5590MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.154	9.760	19.060	28.821	-37.065	65.886
0.228	9.698	21.500	31.198	-32.573	63.771
0.365	9.651	20.800	30.451	-29.406	59.857
0.490	9.640	21.040	30.680	-25.606	56.286
0.697	9.650	31.000	40.650	-15.350	56.000
1.138	9.670	25.060	34.730	-21.270	56.000
Average					
0.154	9.760	1.340	11.101	-44.785	55.886
0.228	9.698	-1.310	8.388	-45.383	53.771
0.365	9.651	9.860	19.511	-30.346	49.857
0.490	9.640	11.470	21.110	-25.176	46.286
0.697	9.650	22.070	31.720	-14.280	46.000
1.138	9.670	14.110	23.780	-22.220	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

3. Peak Transmit Power

3.1. Test Equipment

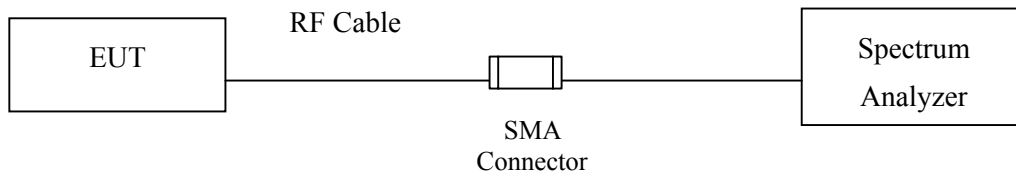
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2011
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2011
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2011

Note:

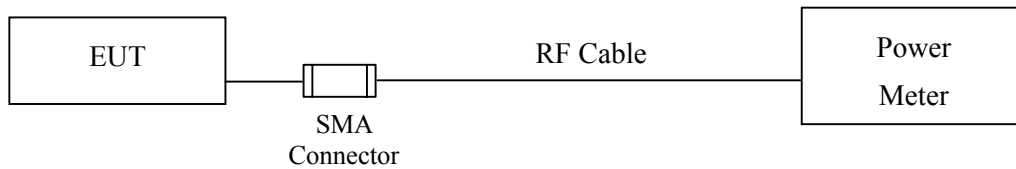
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

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 DA 02-2138, 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 DA 02-2138, and provides more accurate measurements.

3.5. Uncertainty

$\pm 1.27 \text{ dB}$

3.6. Test Result of Peak Transmit Power

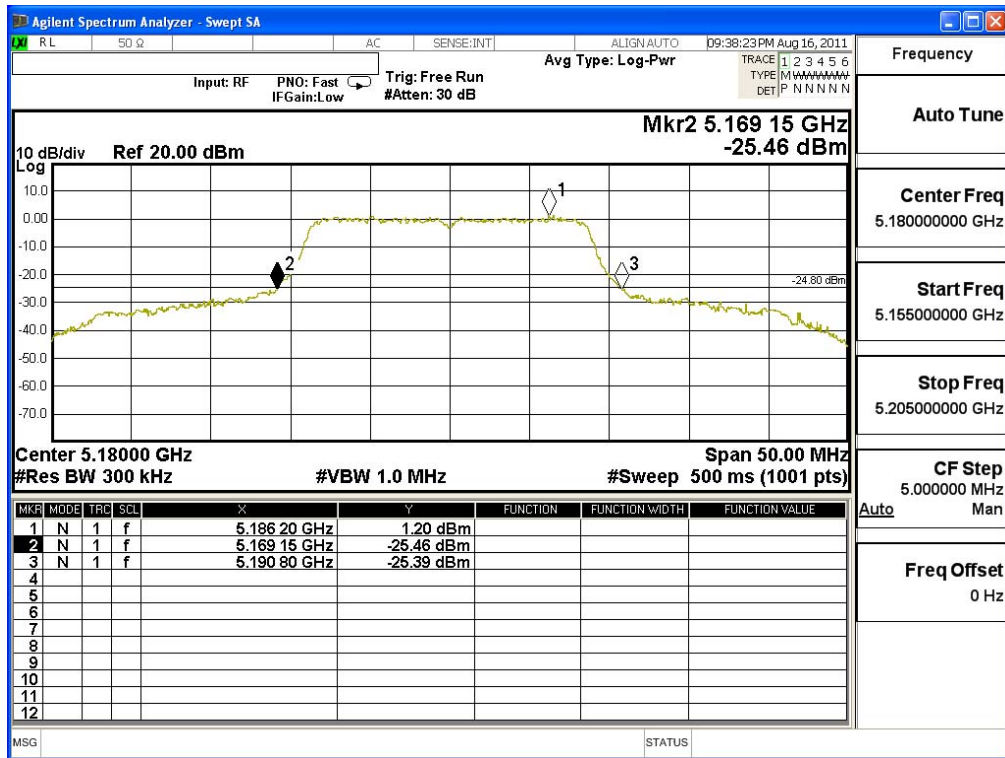
Product : Plug-In PC.
 Test Item : Peak Transmit Power
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11a-6Mbps)

Peak Transmit Power Measurement:

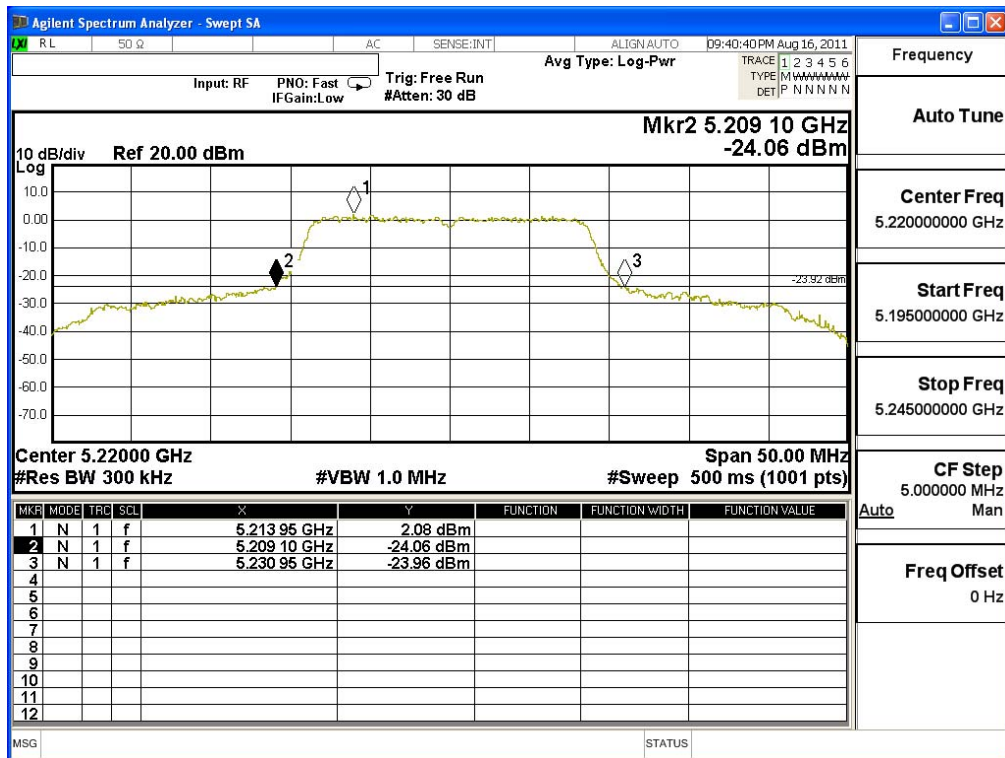
Channel Number	Frequency (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	21.650	11.37	17	17.35
44	5220	21.850	11.69	17	17.39
48	5240	23.050	11.42	17	17.63
52	5260	23.000	11.95	24	24.62
60	5300	25.300	11.94	24	25.03
64	5320	24.150	12.18	24	24.83
100	5500	35.400	14	24	26.49
120	5600	29.550	14.08	24	25.71
140	5700	33.850	14.32	24	26.30

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

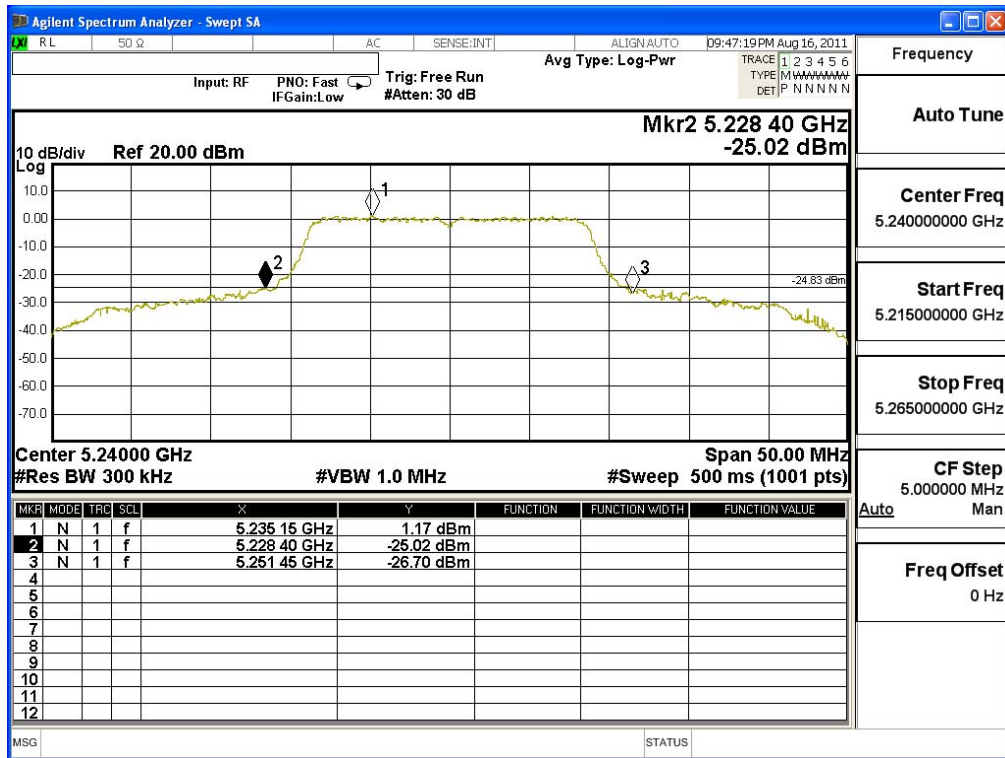
26dBc Occupied Bandwidth: Channel 36



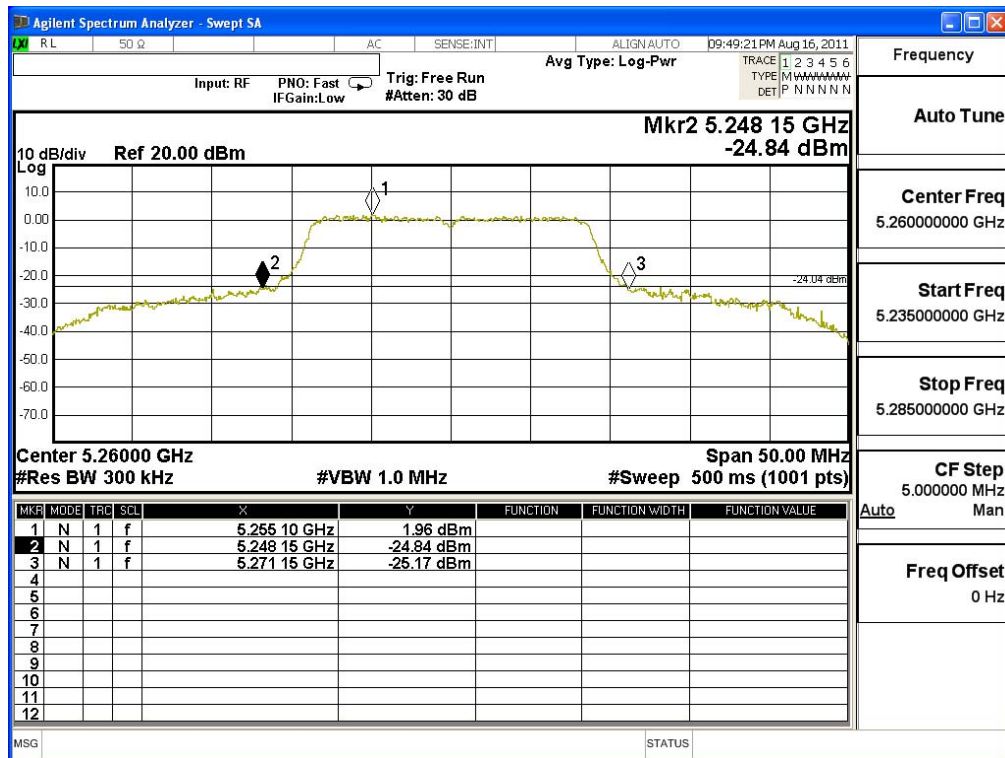
Channel 40



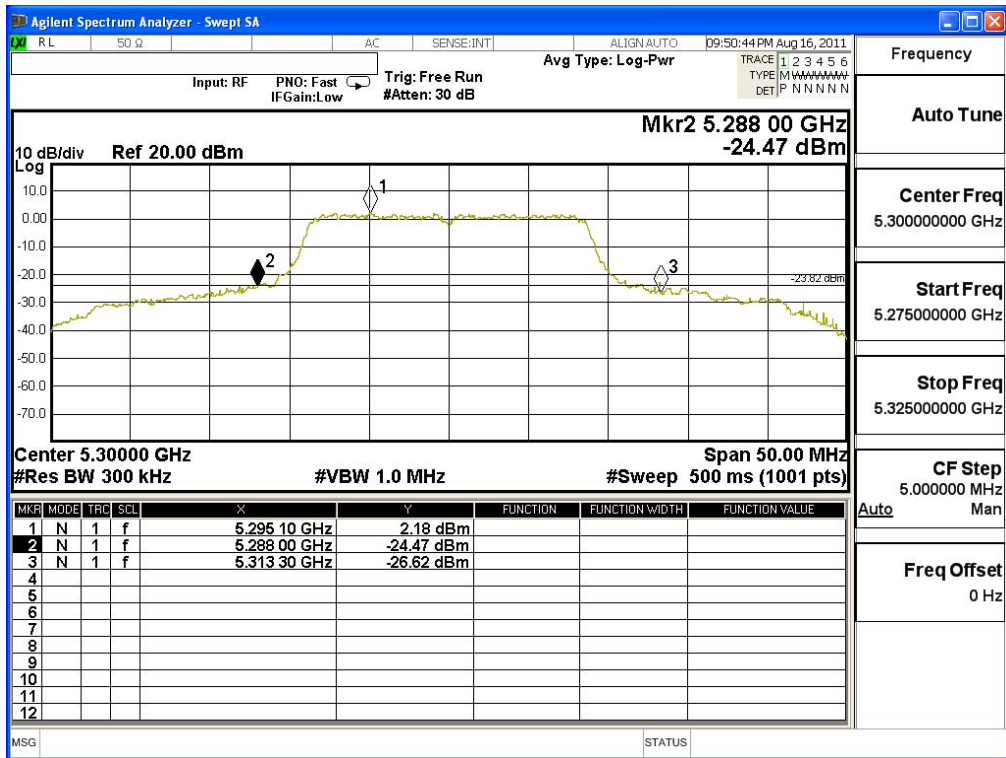
Channel 48



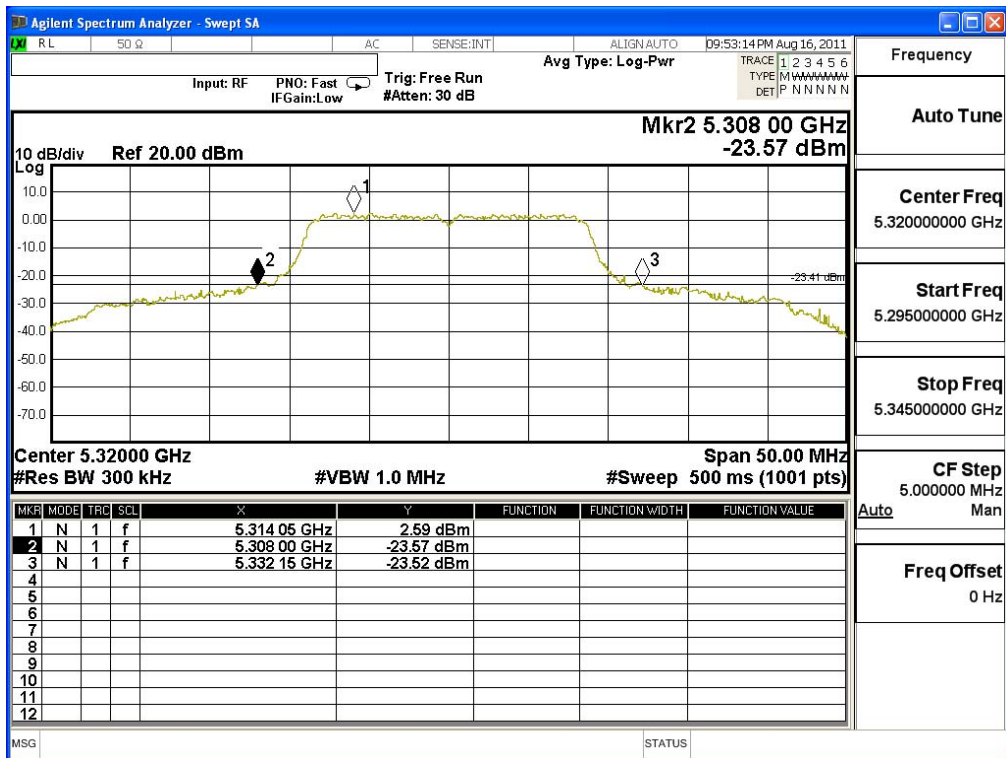
Channel 52



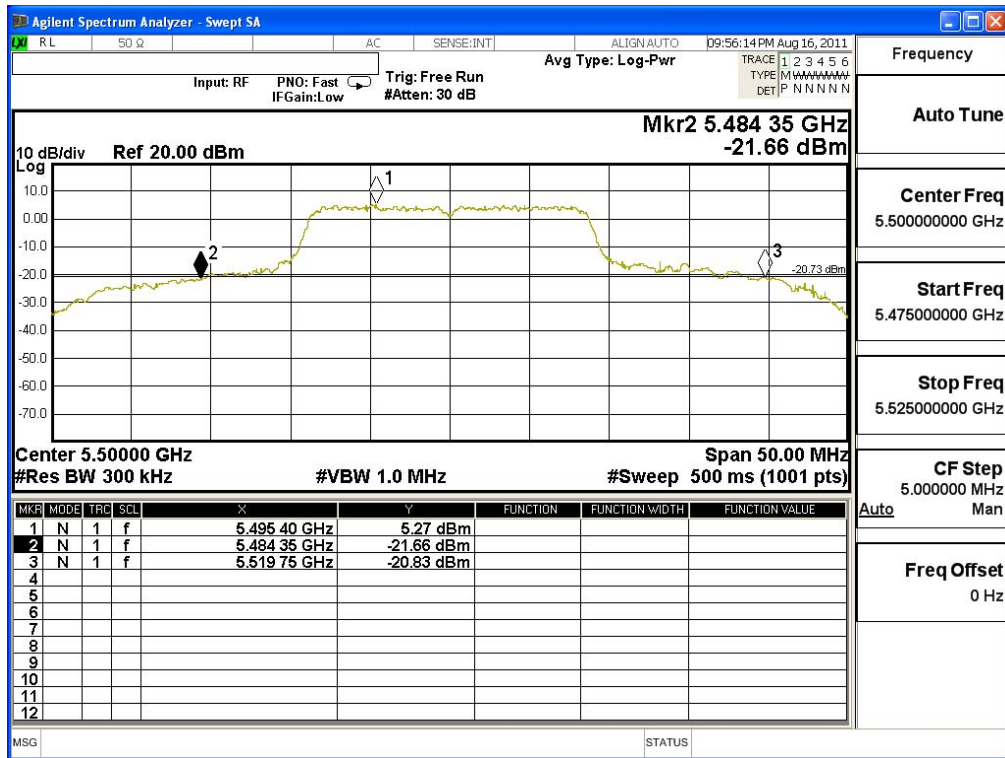
Channel 60



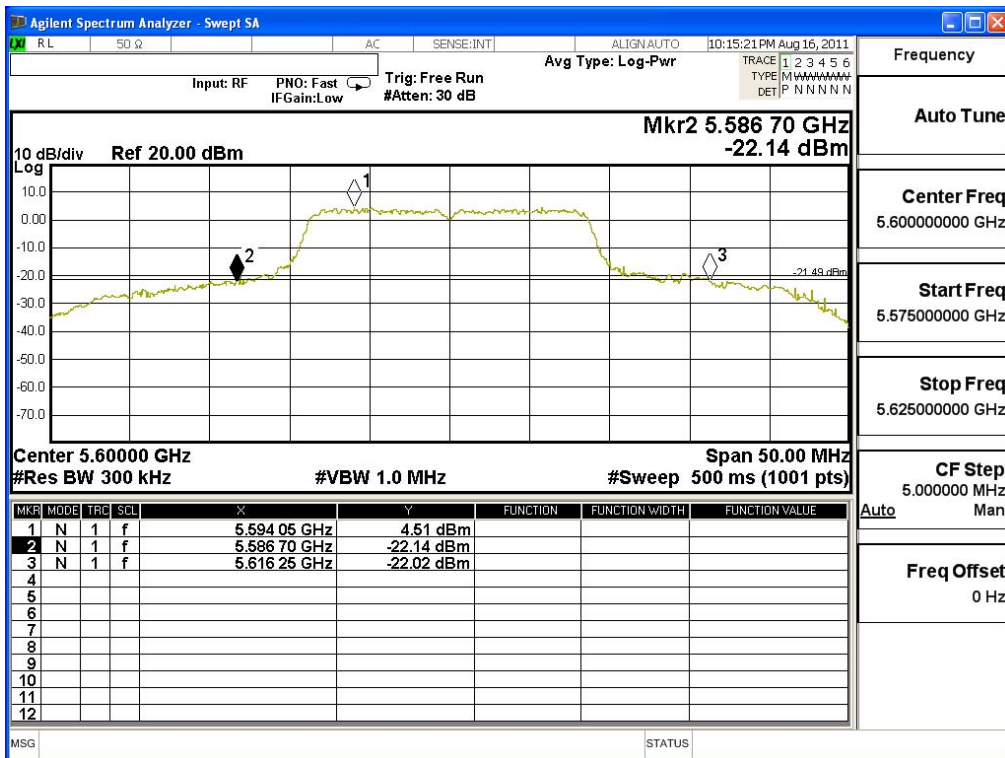
Channel 64



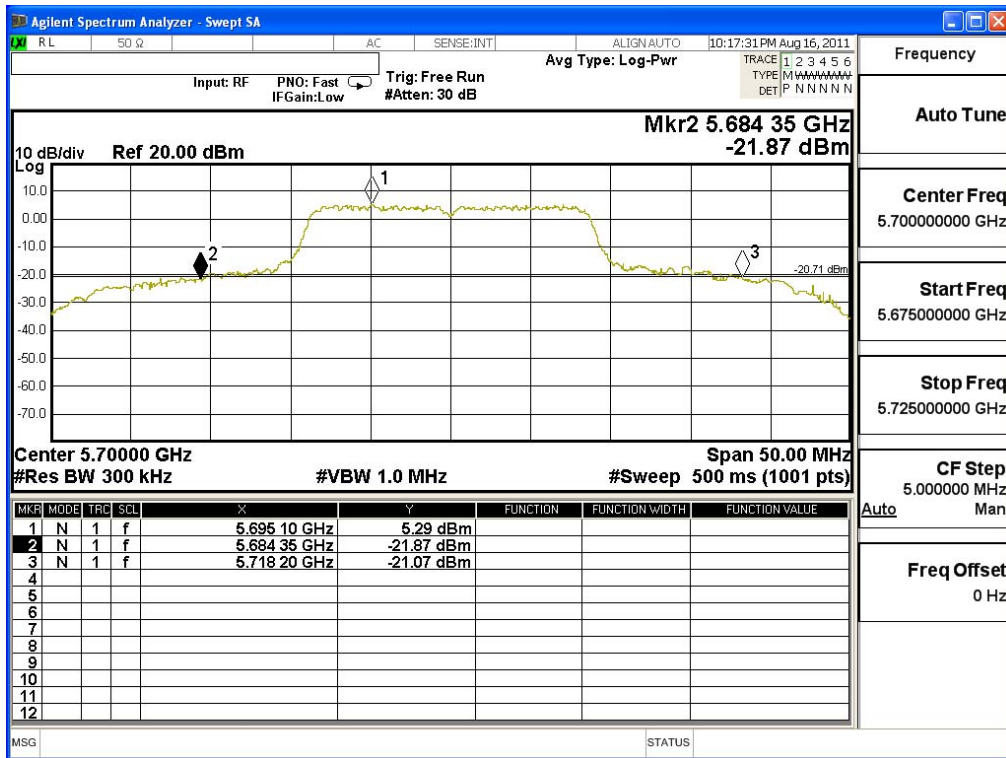
Channel 100



Channel 120



Channel 140



Product : Plug-In PC.
 Test Item : Peak Transmit Power
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11n-20BW 14.4Mbps)

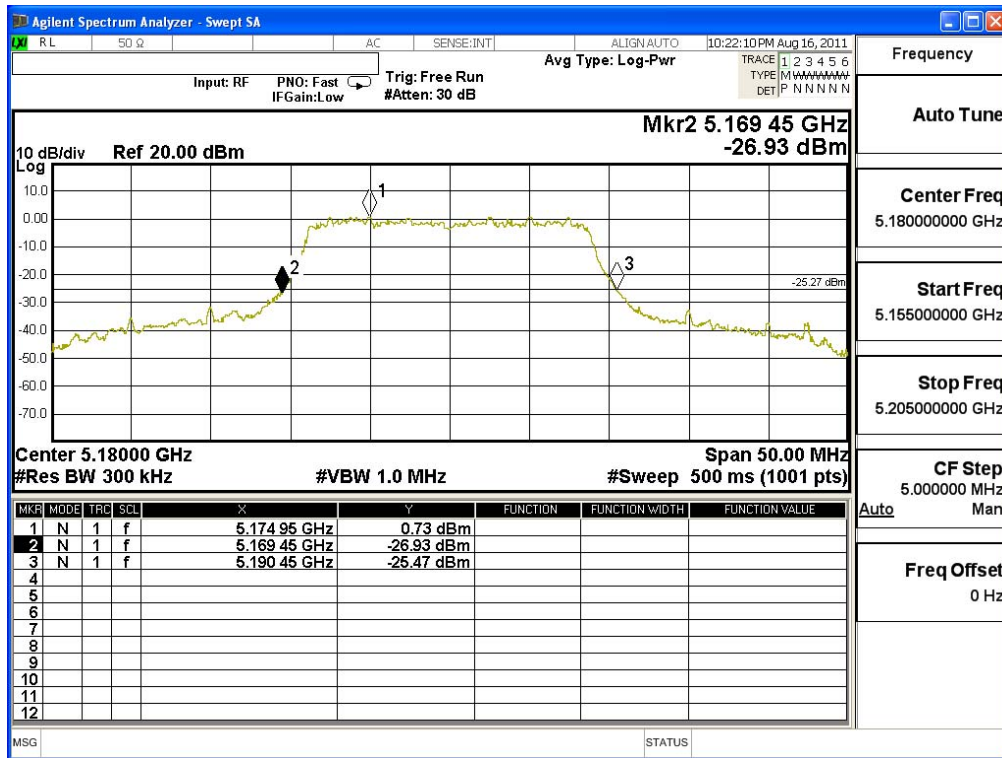
Peak Transmit Power Measurement:

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	21.000	8.86	10.84	12.97	17	17.22
44	5220	20.550	7.87	10.38	12.31	17	17.13
48	5240	20.850	8.01	9.73	11.96	17	17.19
52	5260	20.550	9.14	10.70	13.00	24	24.13
60	5300	20.900	8.85	10.68	12.87	24	24.20
64	5320	20.950	9.20	10.41	12.86	24	24.21
100	5500	20.850	11.64	11.78	14.72	24	24.19
120	5600	20.750	10.89	10.91	13.91	24	24.17
140	5700	20.900	11.26	10.30	13.82	24	24.20

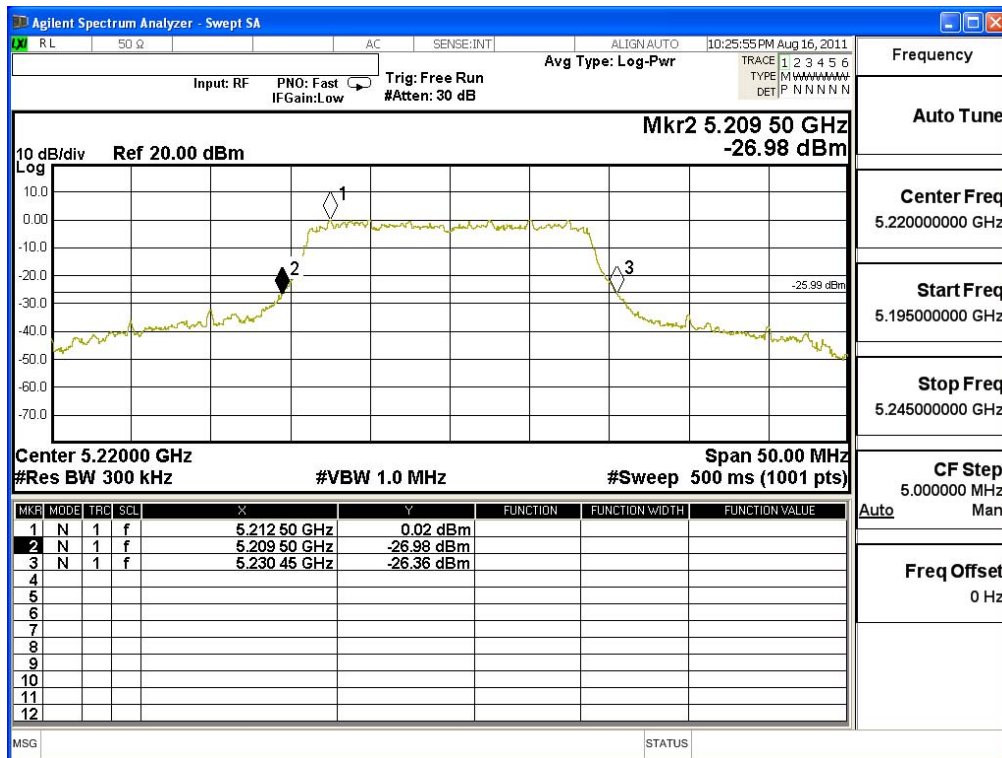
Note:

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))

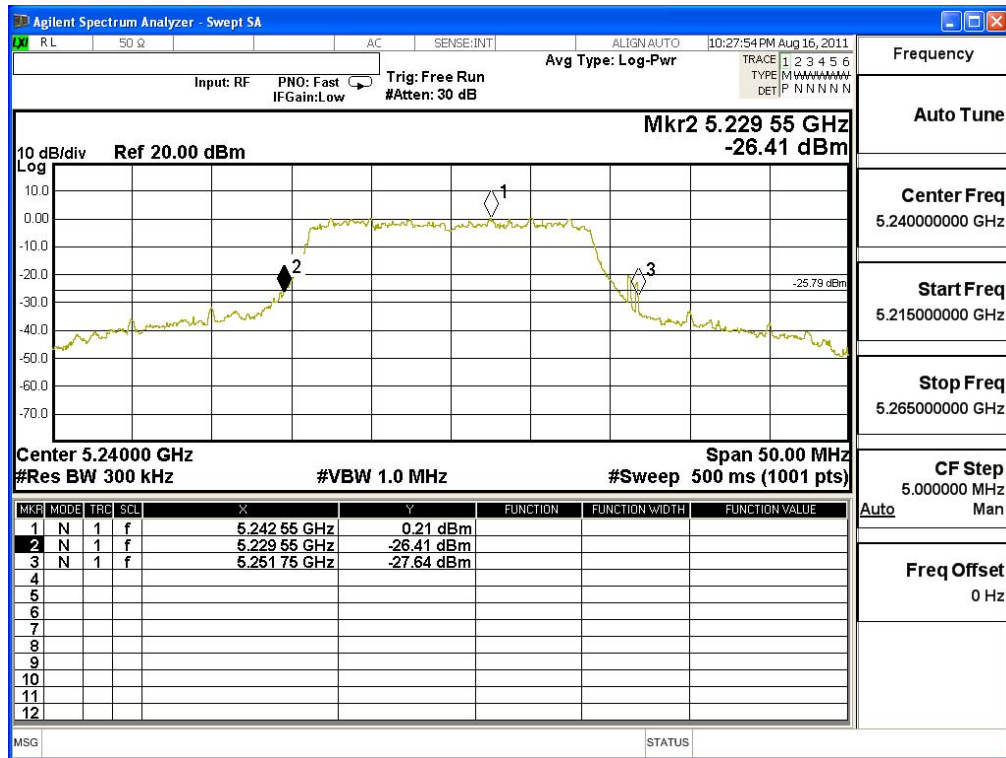
26dBc Occupied Bandwidth: Channel 36 -Chain A



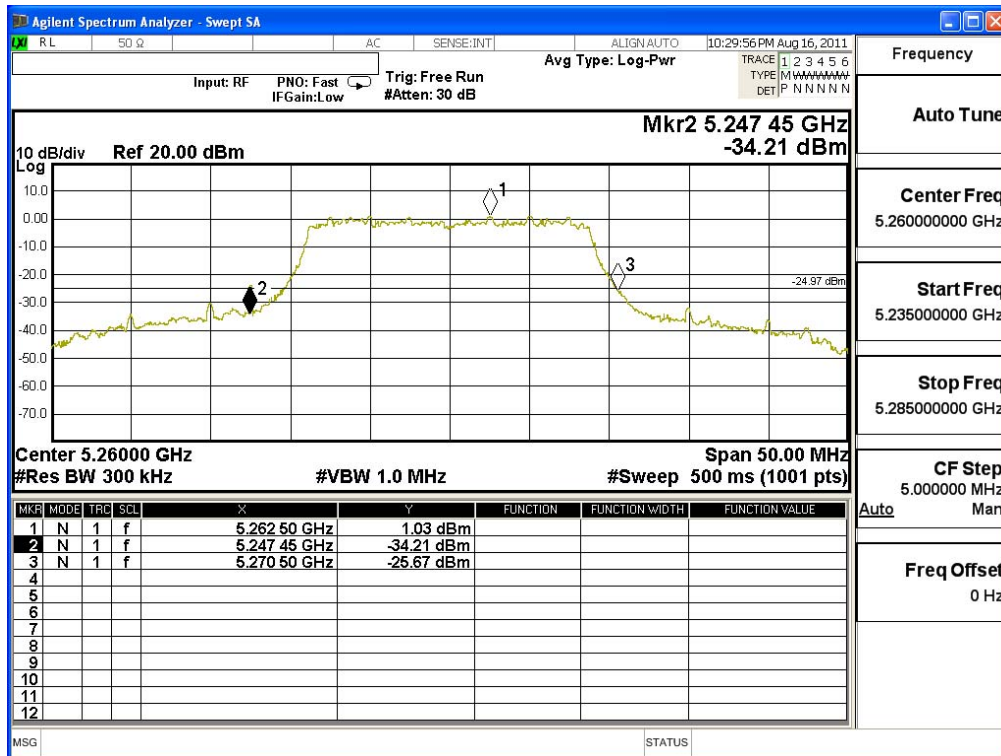
Channel 44 -Chain A



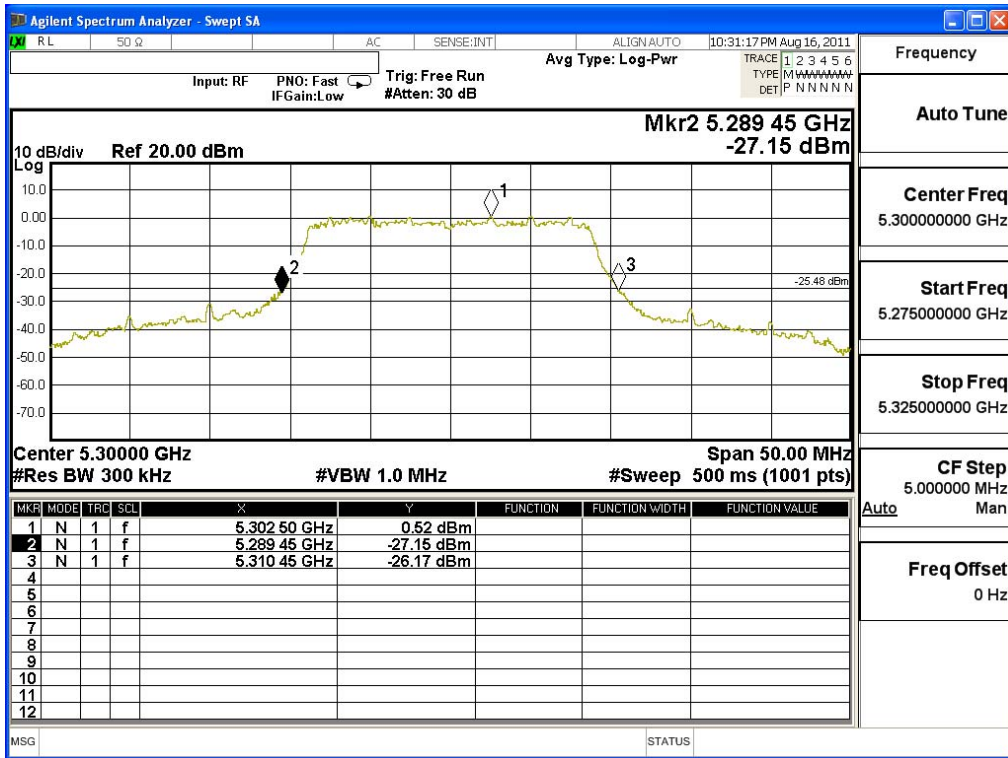
Channel 48 -Chain A



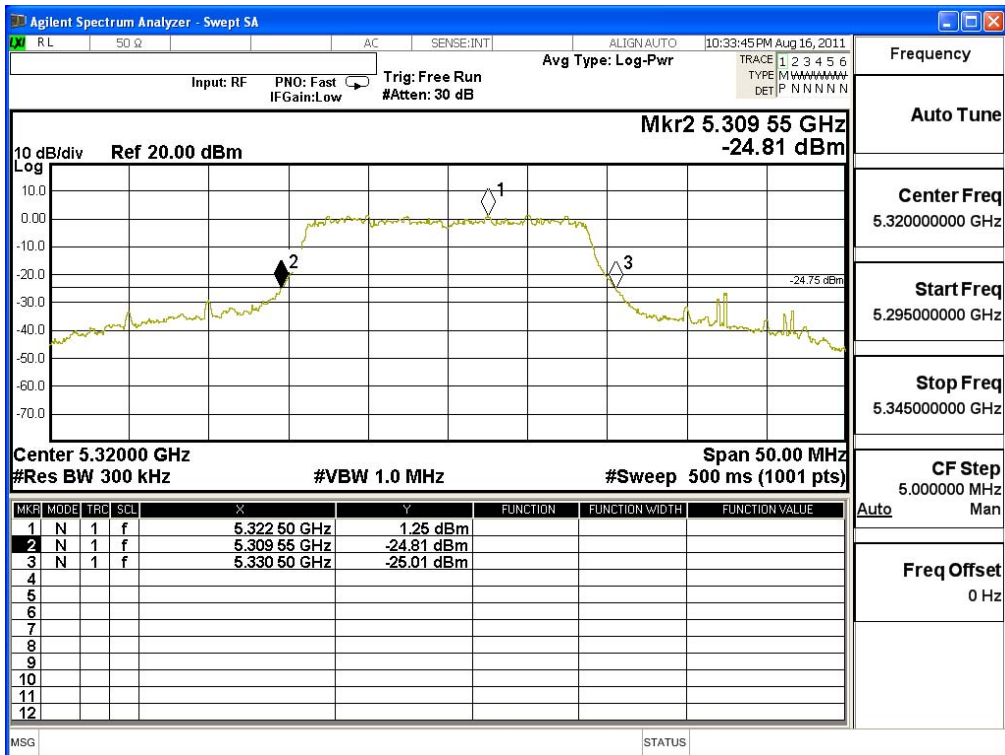
Channel 52 -Chain A



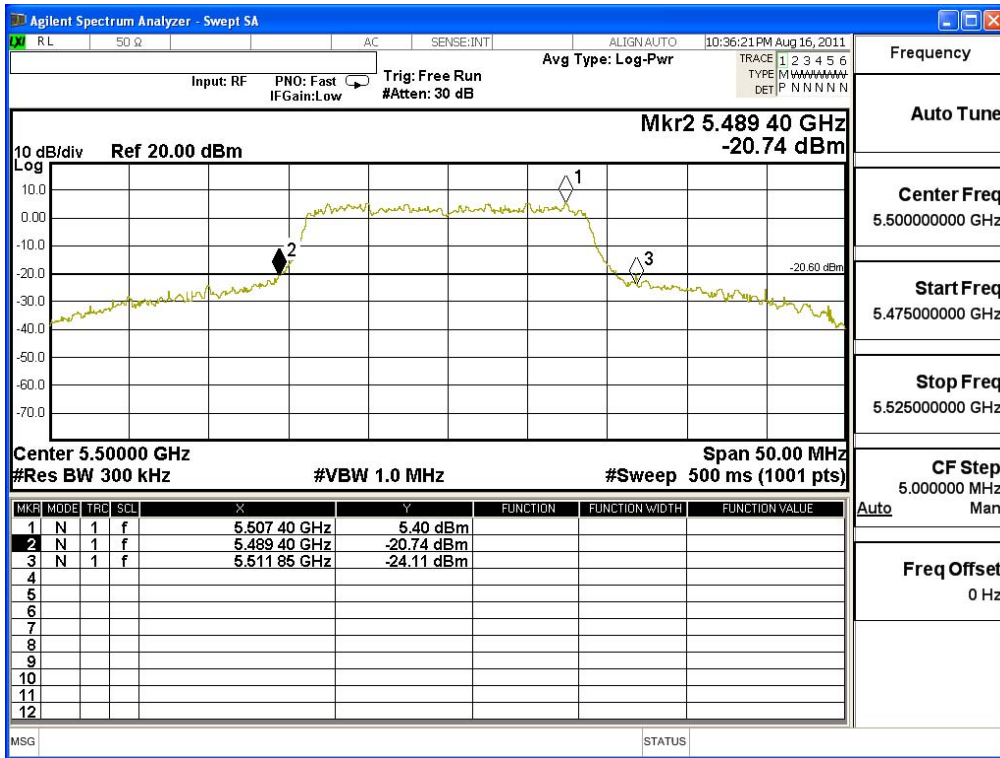
Channel 60 -Chain A



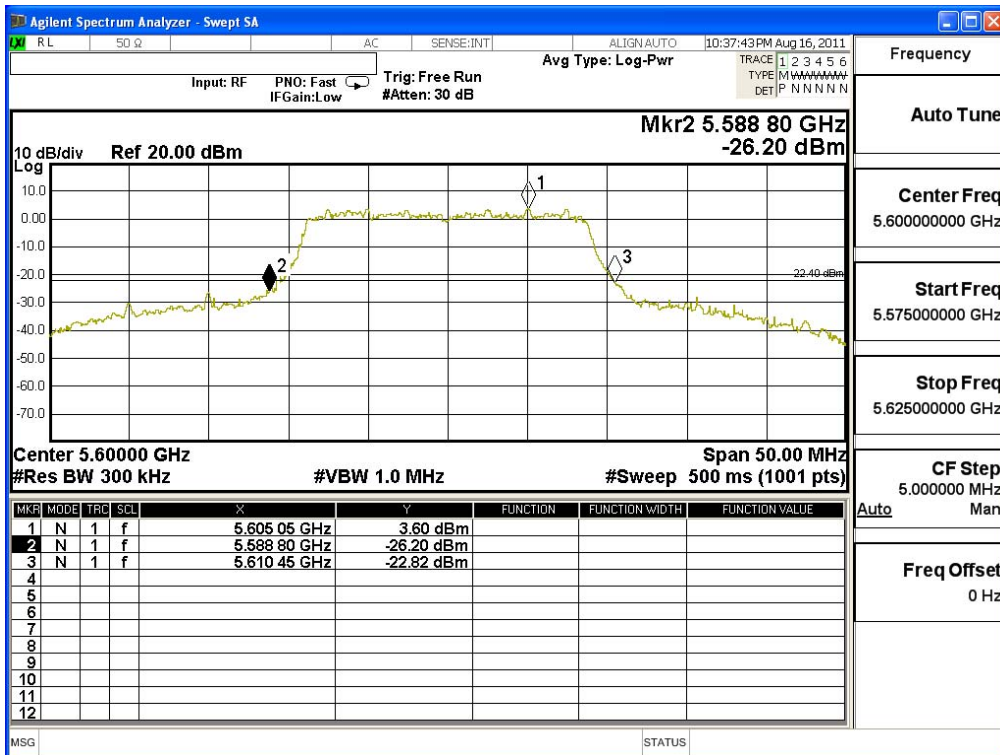
Channel 64 -Chain A



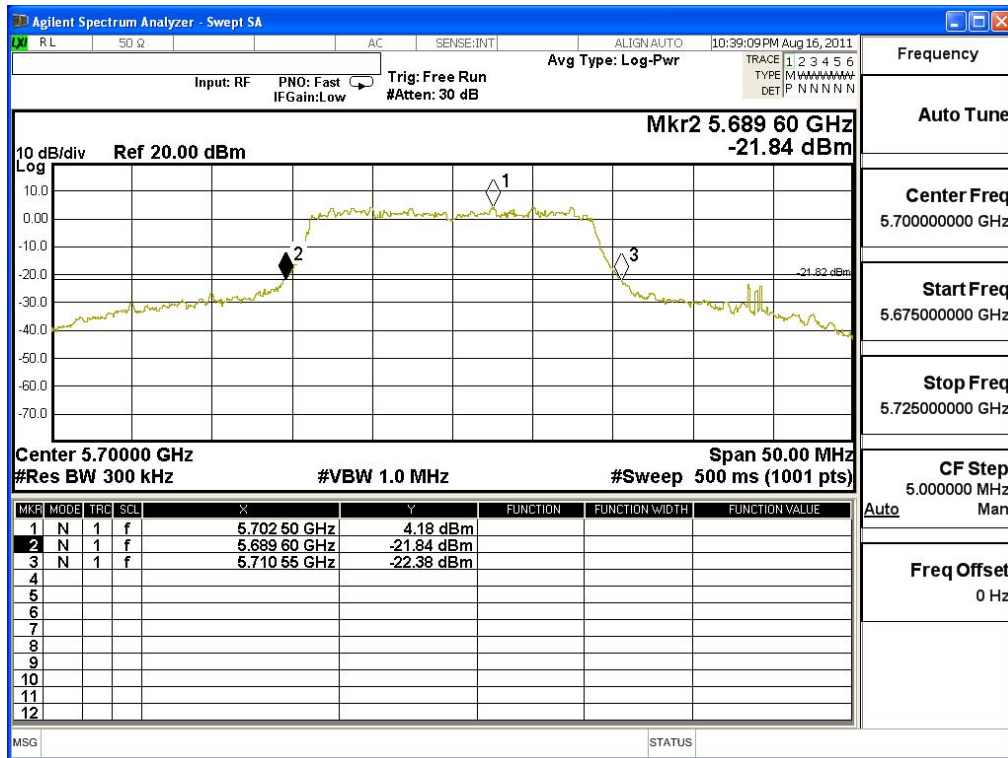
Channel 100 -Chain A



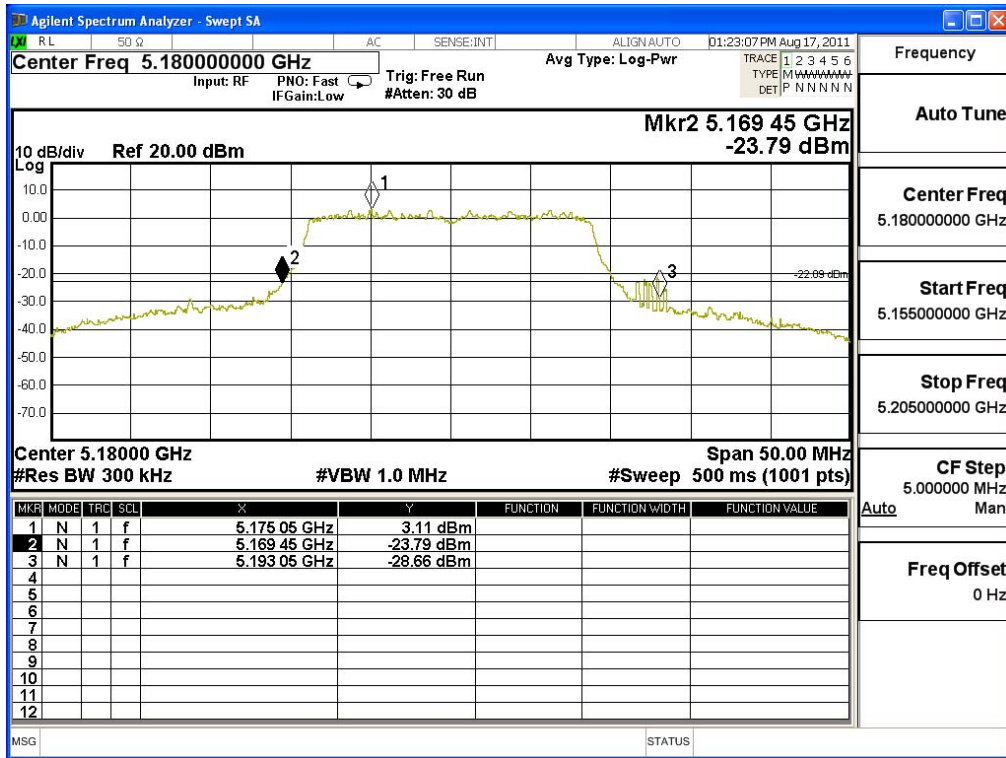
Channel 120 -Chain A



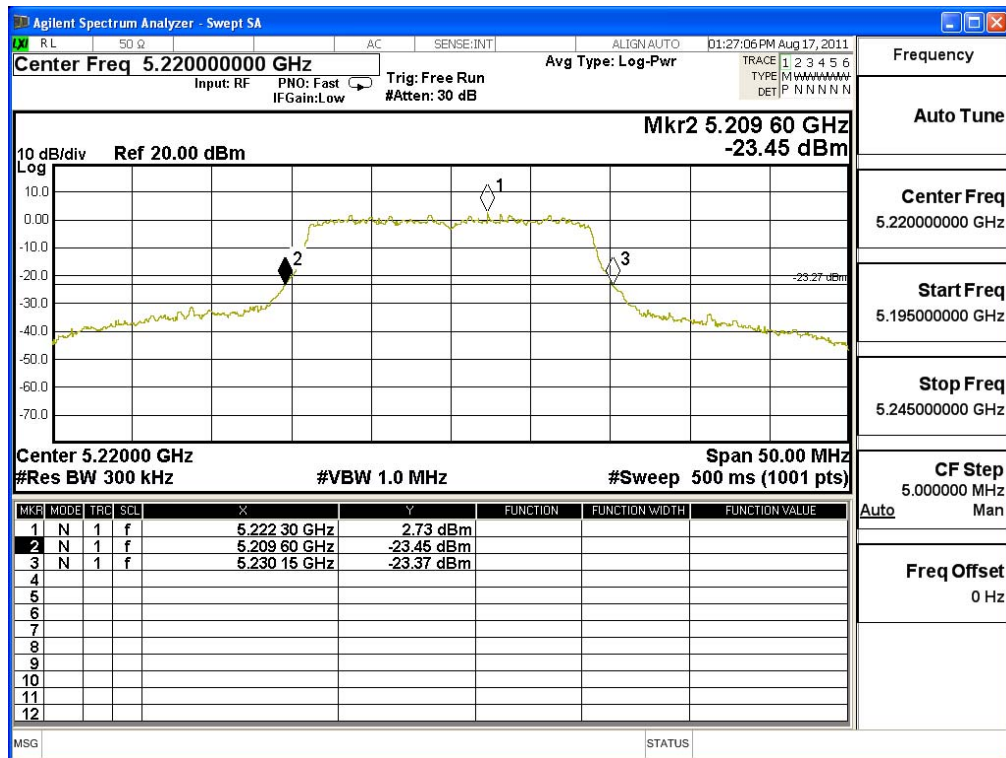
Channel 140 -Chain A



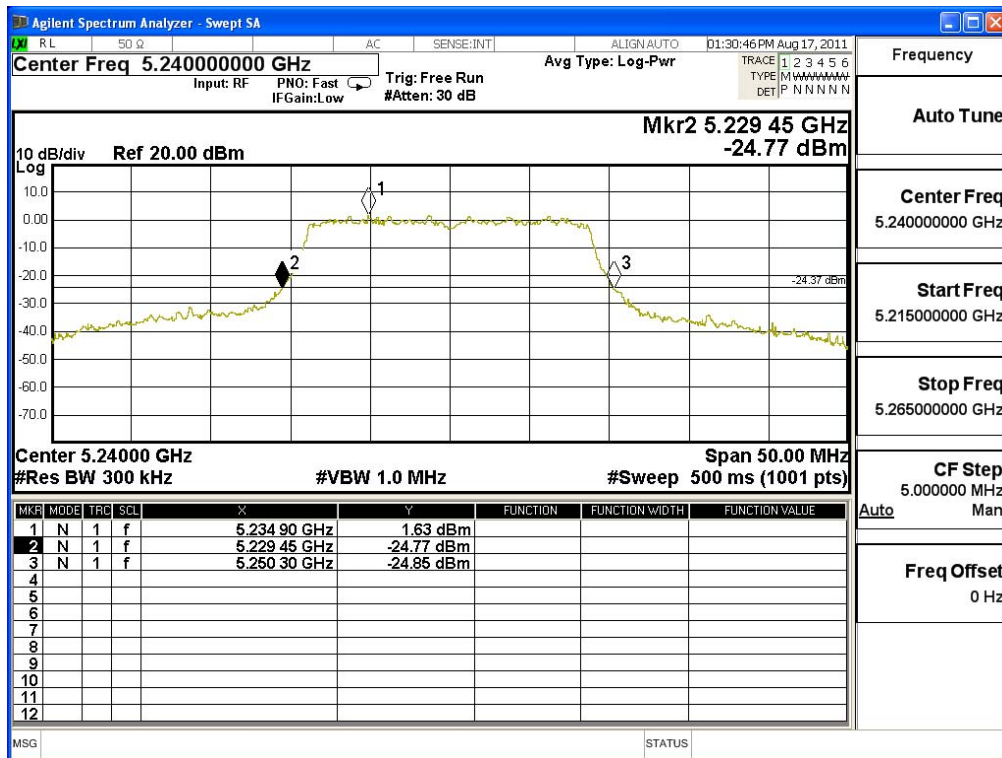
Channel 36 -Chain B



Channel 44 -Chain B

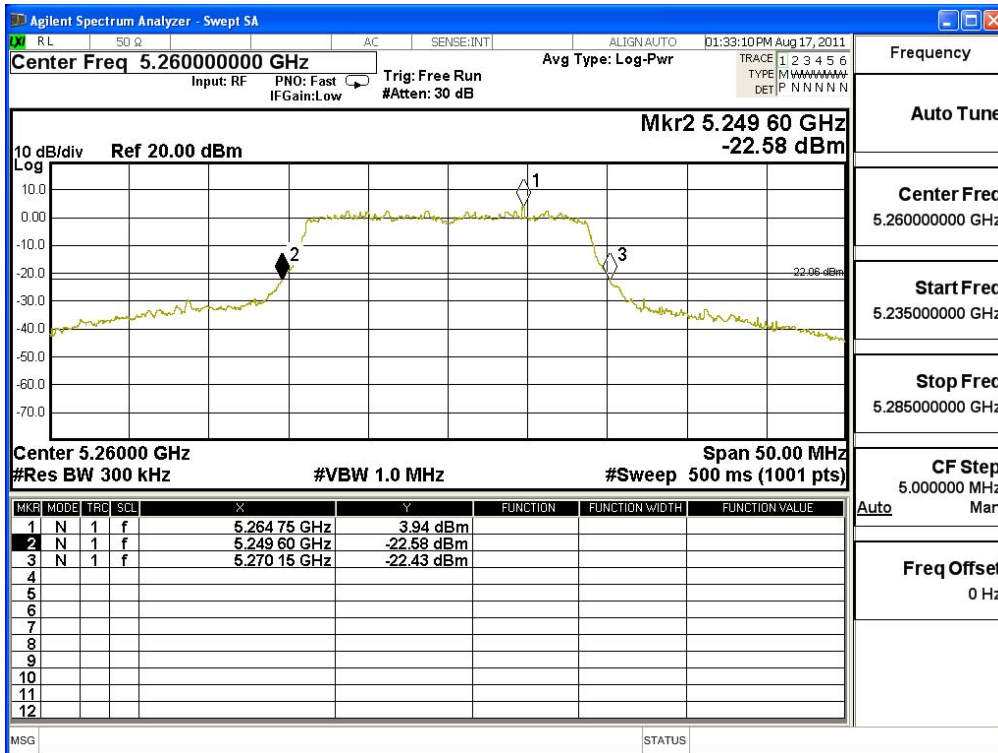


Channel 48 -Chain B



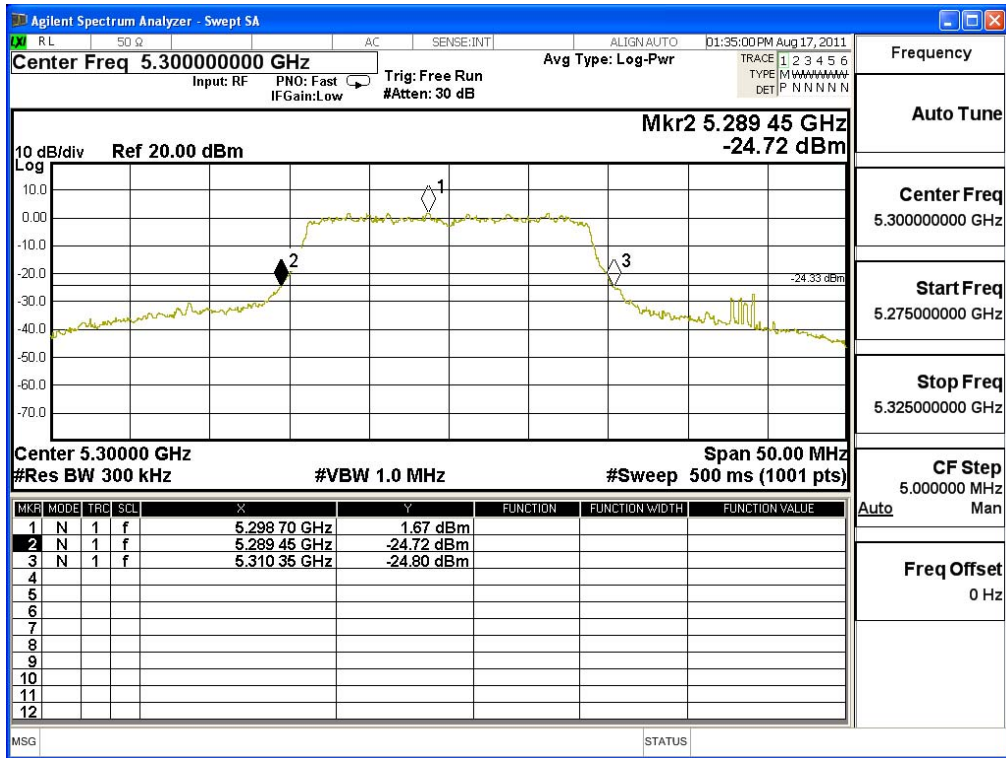
Frequency	
Auto Tune	
Center Freq	5.24000000 GHz
Start Freq	5.215000000 GHz
Stop Freq	5.265000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

Channel 52 -Chain B

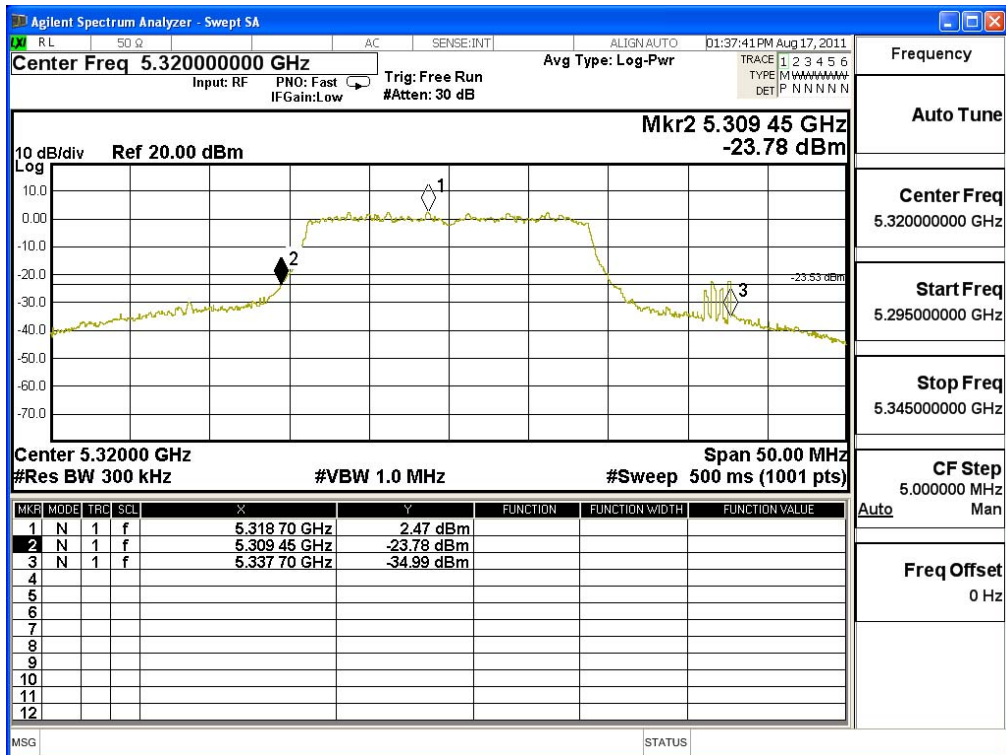


Frequency	
Auto Tune	
Center Freq	5.260000000 GHz
Start Freq	5.235000000 GHz
Stop Freq	5.285000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

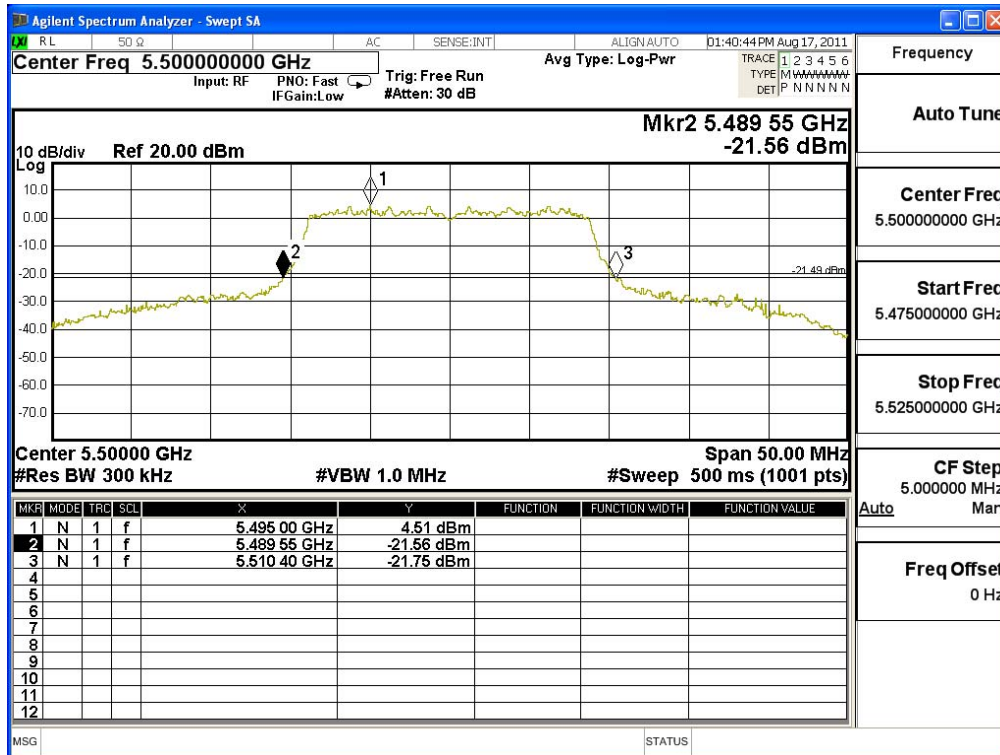
Channel 60 -Chain B



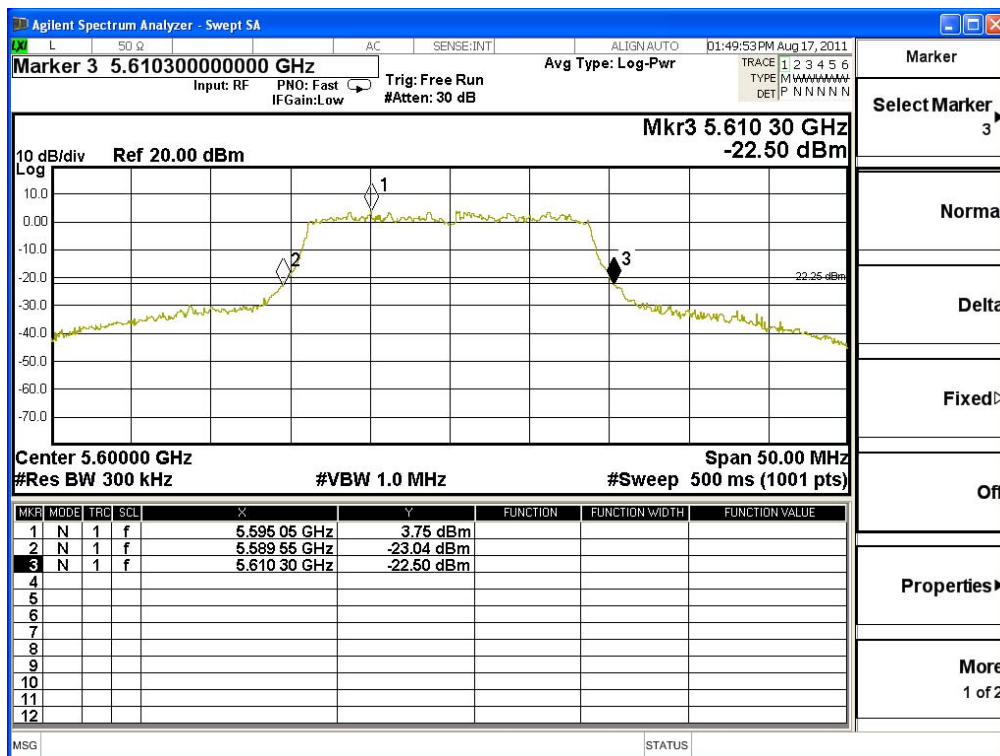
Channel 64 -Chain B



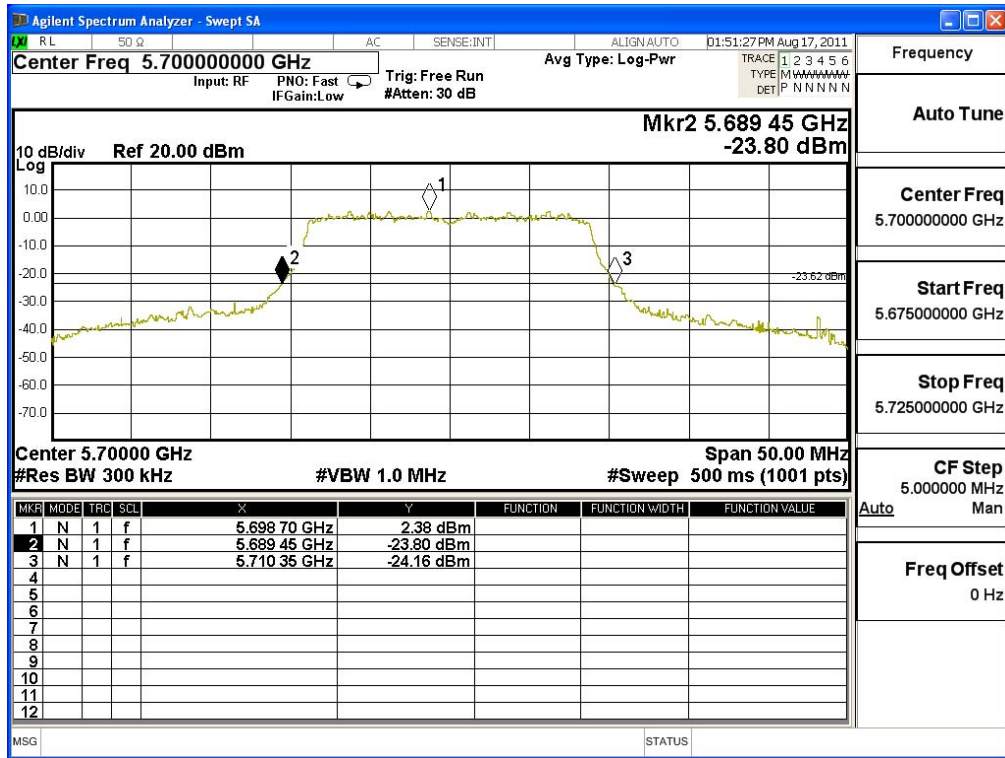
Channel 100 -Chain B



Channel 120 -Chain B



Channel 140 -Chain B



Product : Plug-In PC.
 Test Item : Peak Transmit Power
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n-40BW 30Mbps)

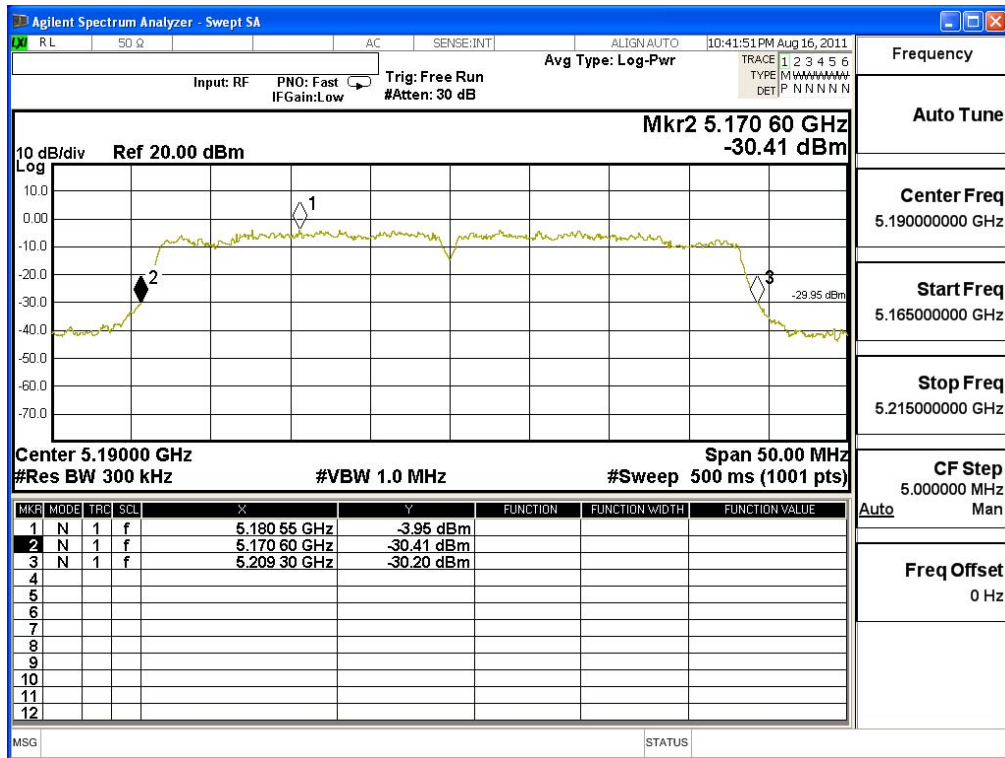
Peak Transmit Power Measurement:

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	38.700	6.58	8.42	10.61	17	19.88
46	5230	38.700	7.62	9.74	11.82	17	19.88
54	5270	38.100	8.11	9.68	11.98	24	26.81
62	5310	39.000	6.85	8.71	10.89	24	26.91
102	5510	38.450	11.14	11.00	14.08	24	26.85
118	5590	38.900	10.41	10.04	13.24	24	26.90
134	5670	38.800	10.97	9.41	13.27	24	26.89

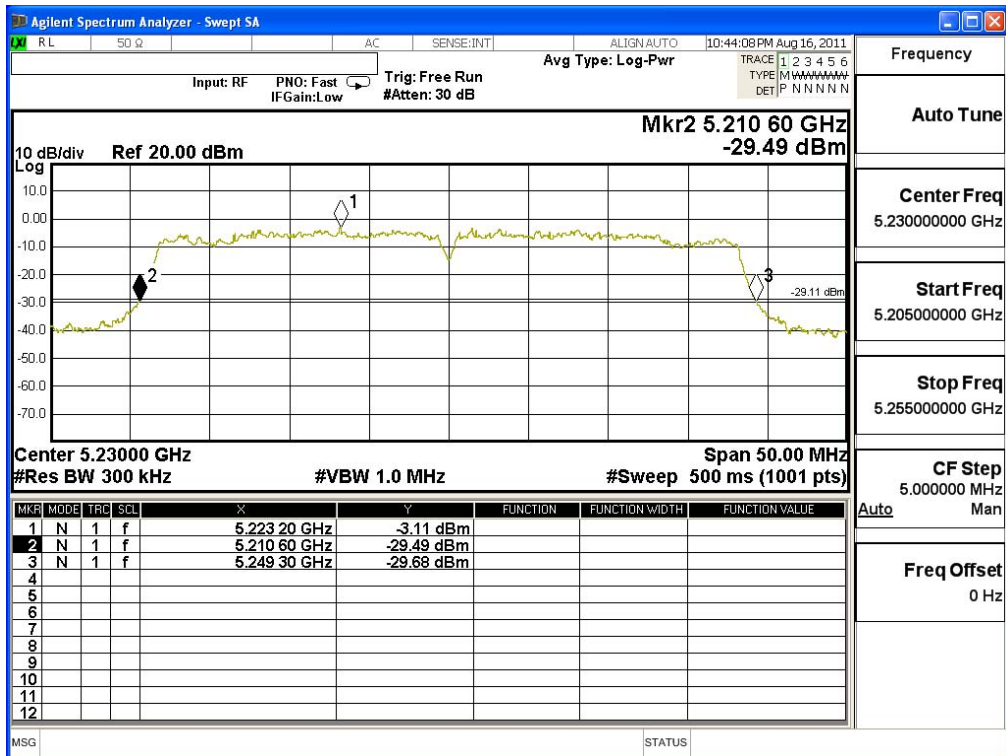
Note:

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))

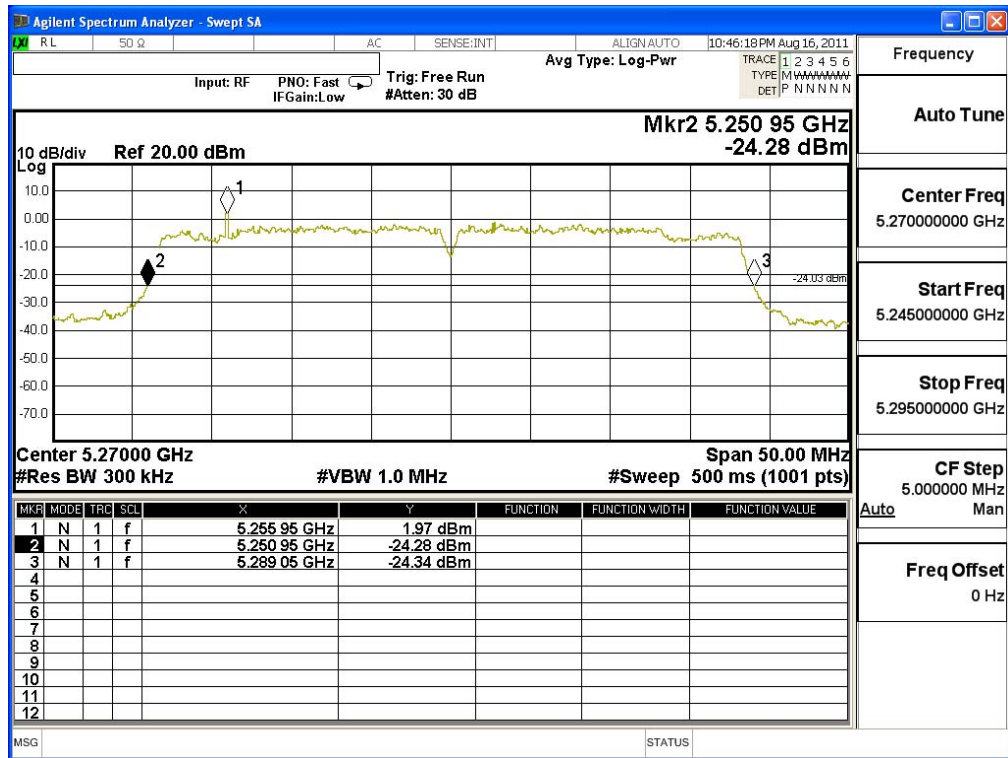
26dBc Occupied Bandwidth: Channel 38 – Chain A



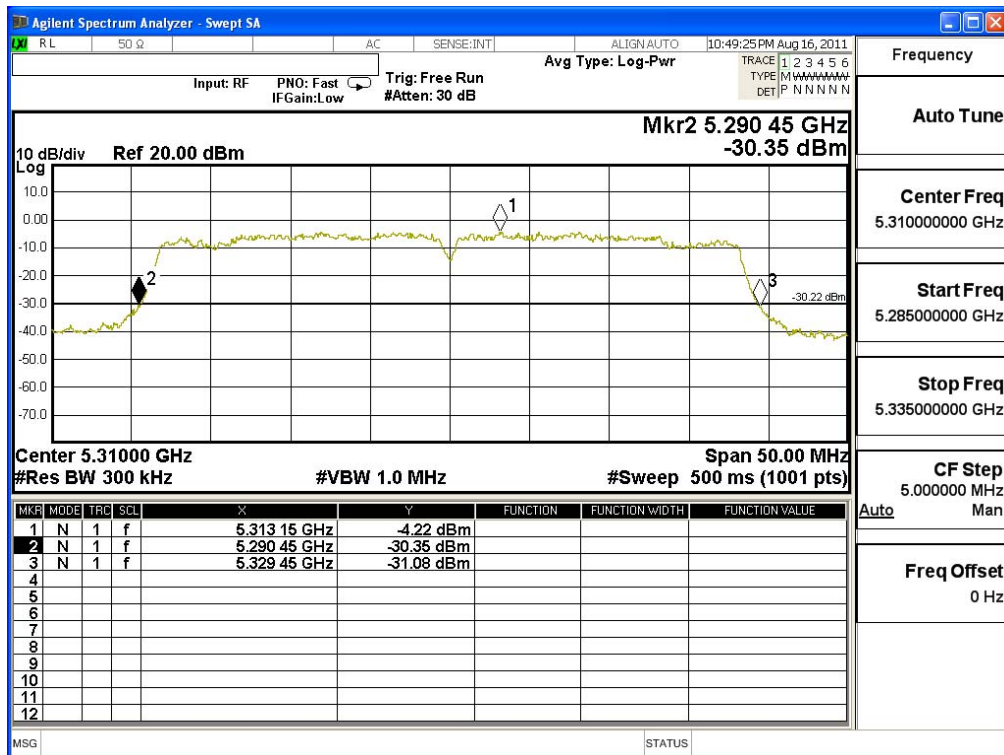
Channel 46 – Chain A



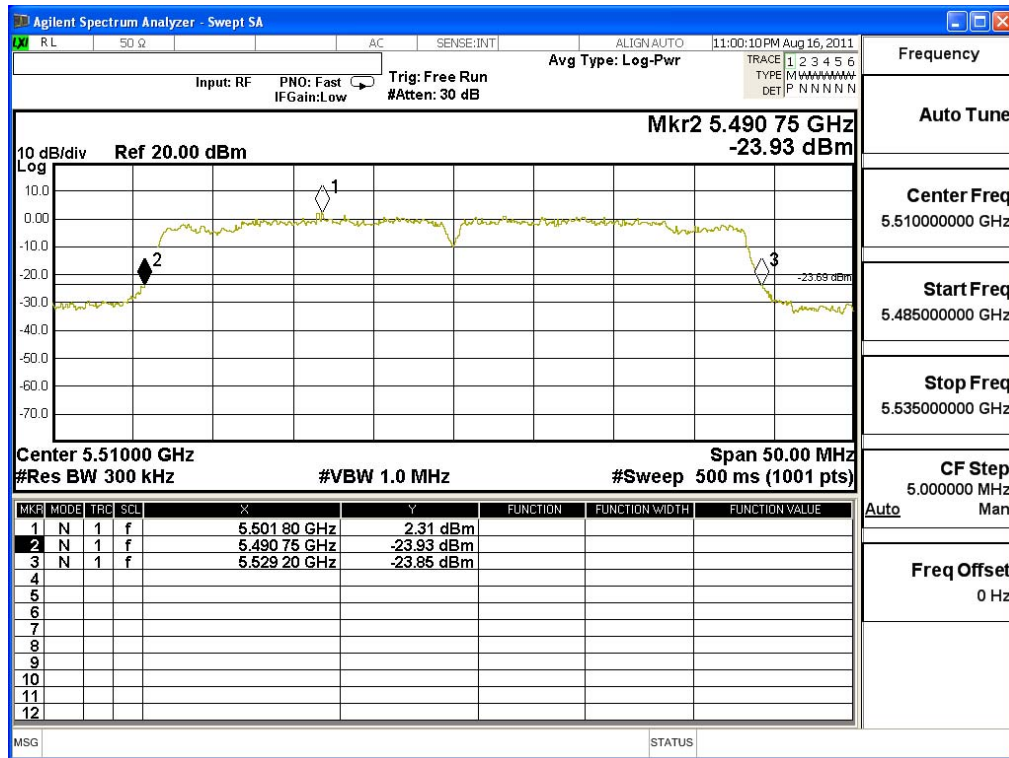
Channel 54 – Chain A



Channel 62 – Chain A



Channel 102 – Chain A



Channel 118 – Chain A

