



Test Report

Product Name	Tablet PC
Model No	xTablet [®] 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
Issue Date	Apr. 18, 2012
Report No.	122393R-RFUSP42V01
Report Version	V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issue Date: Apr. 18, 2012

Report No.: 122393R-RFUSP42V01


Accredited by NIST (NVLAP)

NVLAP Lab Code: 200533-0

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 C: 2010 ANSI C63.4: 2003
Test Result	Complied

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Tablet PC
Trade Name	MobileDemand, LOGIC INSTRUMENT, DURABOOK, tabletkiosk
Model No.	xTablet [®] T7200, Fieldbook A2, T7Q, a7360X, a7380X
FCC ID.	FKGT7Q
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz,802.11n-40MHz:2422-2452MHz 802.11a/n-20MHz:5745-5825MHz ,802.11n-40MHz:5755-5795MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7 802.11a/n-20MHz: 5, n-40MHz: 2
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20MHz: 20MHz 802.11n-40MHz: 40MHz
Type of Modulation	802.11b:DSSS DBPSK, DQPSK, CCK 802.11a/g/n: OFDM BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
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	0.48dBi For 2.4GHz 0.61dBi For 5.725~5.85GHz

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 149:	5745 MHz	Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz
Channel 165:	5825 MHz						

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 3:	2422 MHz	Channel 4:	2427 MHz	Channel 5:	2432 MHz	Channel 6:	2437 MHz
Channel 7:	2442 MHz	Channel 8:	2447 MHz	Channel 9:	2452 MHz		

802.11n-40MHz (5G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 151:	5755 MHz	Channel 159:	5795 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 are conducted on a sample for the purpose of demonstrating compliance of 802.11a/b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum 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 - 802.11b 1Mbps
	Mode 2: Transmit - 802.11g 6Mbps
	Mode 3: Transmit - 802.11a 6Mbps
	Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)
	Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)
	Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

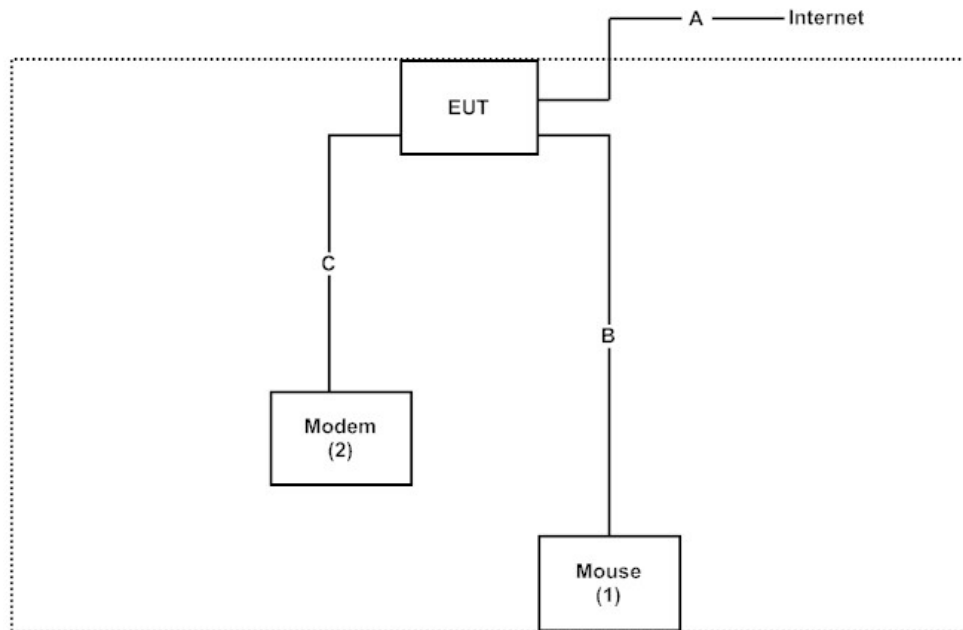
1.3. Tested System Details

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
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FCC Engineering Laboratory
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Columbia, MD 21046
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Accreditation on NVLAP
NVLAP Lab Code: 200533-0

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FCC Accreditation Number: TW1014

2. Conducted Emission

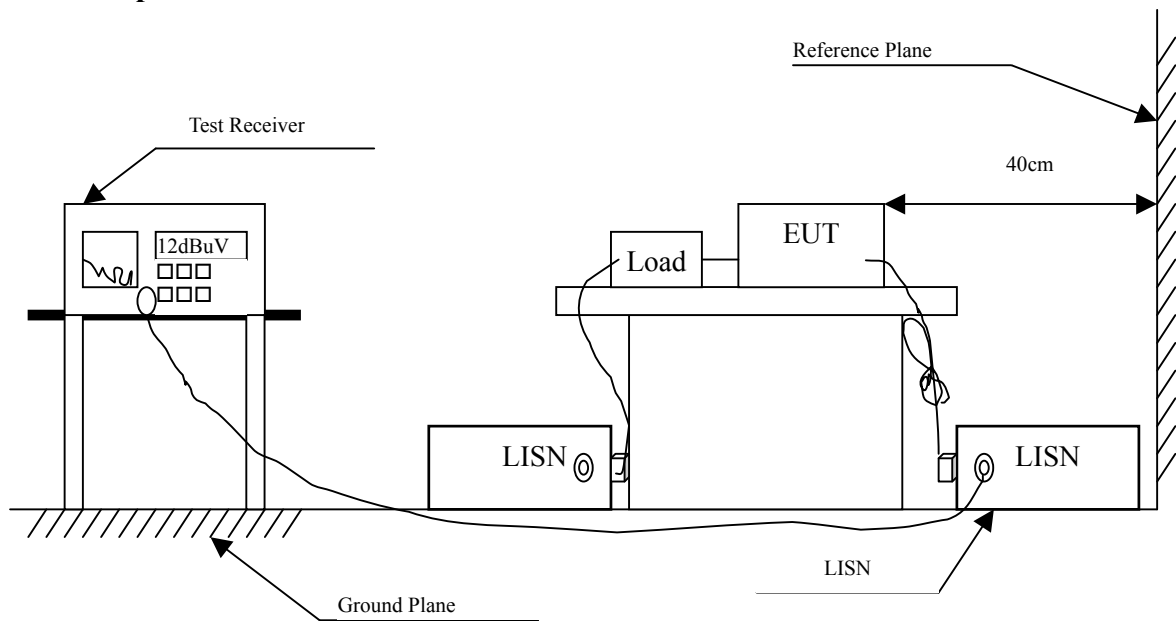
2.1. Test Equipment

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

	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: All instruments 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	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

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.

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 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.205	9.840	34.550	44.390	-20.039	64.429
0.295	9.840	26.360	36.200	-25.657	61.857
0.677	9.840	33.460	43.300	-12.700	56.000
0.963	9.850	23.880	33.730	-22.270	56.000
3.252	9.870	14.810	24.680	-31.320	56.000
26.673	10.130	24.790	34.920	-25.080	60.000
Average					
0.205	9.840	22.320	32.160	-22.269	54.429
0.295	9.840	12.270	22.110	-29.747	51.857
0.677	9.840	20.630	30.470	-15.530	46.000
0.963	9.850	7.740	17.590	-28.410	46.000
3.252	9.870	3.440	13.310	-32.690	46.000
26.673	10.130	18.020	28.150	-21.850	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 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.185	9.840	35.910	45.750	-19.250	65.000
0.201	9.840	36.360	46.200	-18.343	64.543
0.306	9.840	26.240	36.080	-25.463	61.543
0.624	9.840	35.560	45.400	-10.600	56.000
0.802	9.840	29.530	39.370	-16.630	56.000
27.853	10.360	25.790	36.150	-23.850	60.000
Average					
0.185	9.840	20.050	29.890	-25.110	55.000
0.201	9.840	24.500	34.340	-20.203	54.543
0.306	9.840	16.510	26.350	-25.193	51.543
0.624	9.840	23.300	33.140	-12.860	46.000
0.802	9.840	17.900	27.740	-18.260	46.000
27.853	10.360	18.860	29.220	-20.780	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 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.185	9.840	33.860	43.700	-21.300	65.000
0.283	9.840	25.570	35.410	-26.790	62.200
0.693	9.840	28.930	38.770	-17.230	56.000
0.939	9.850	26.370	36.220	-19.780	56.000
3.392	9.870	15.750	25.620	-30.380	56.000
27.259	10.130	24.960	35.090	-24.910	60.000
Average					
0.185	9.840	18.770	28.610	-26.390	55.000
0.283	9.840	10.170	20.010	-32.190	52.200
0.693	9.840	19.120	28.960	-17.040	46.000
0.939	9.850	12.860	22.710	-23.290	46.000
3.392	9.870	3.900	13.770	-32.230	46.000
27.259	10.130	17.970	28.100	-21.900	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 7: Transmit - 802.11n-40BW_30Mbps(5G Band) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.201	9.840	36.110	45.950	-18.593	64.543
0.287	9.840	25.430	35.270	-26.816	62.086
0.654	9.840	35.590	45.430	-10.570	56.000
0.935	9.840	29.080	38.920	-17.080	56.000
1.420	9.850	25.520	35.370	-20.630	56.000
26.712	10.350	25.590	35.940	-24.060	60.000
Average					
0.201	9.840	24.430	34.270	-20.273	54.543
0.287	9.840	14.470	24.310	-27.776	52.086
0.654	9.840	23.510	33.350	-12.650	46.000
0.935	9.840	17.080	26.920	-19.080	46.000
1.420	9.850	12.360	22.210	-23.790	46.000
26.712	10.350	18.450	28.800	-21.200	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 Power Output

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
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2011
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2011
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2012

Note:

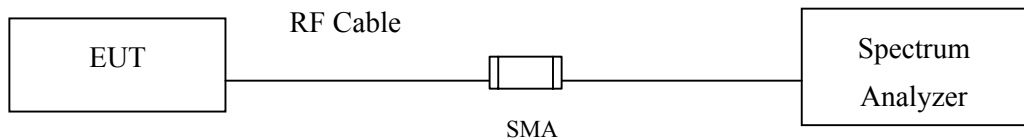
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup

Average Power For different Data Rate (Mbps)



Peak Power Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	14.6	--	--	--	15.98	<30dBm	Pass
06	2437	14.32	14.31	14.23	14.17	17.2	<30dBm	Pass
11	2462	14.19	--	--	--	16.78	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
 (Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

Figure Channel 1:

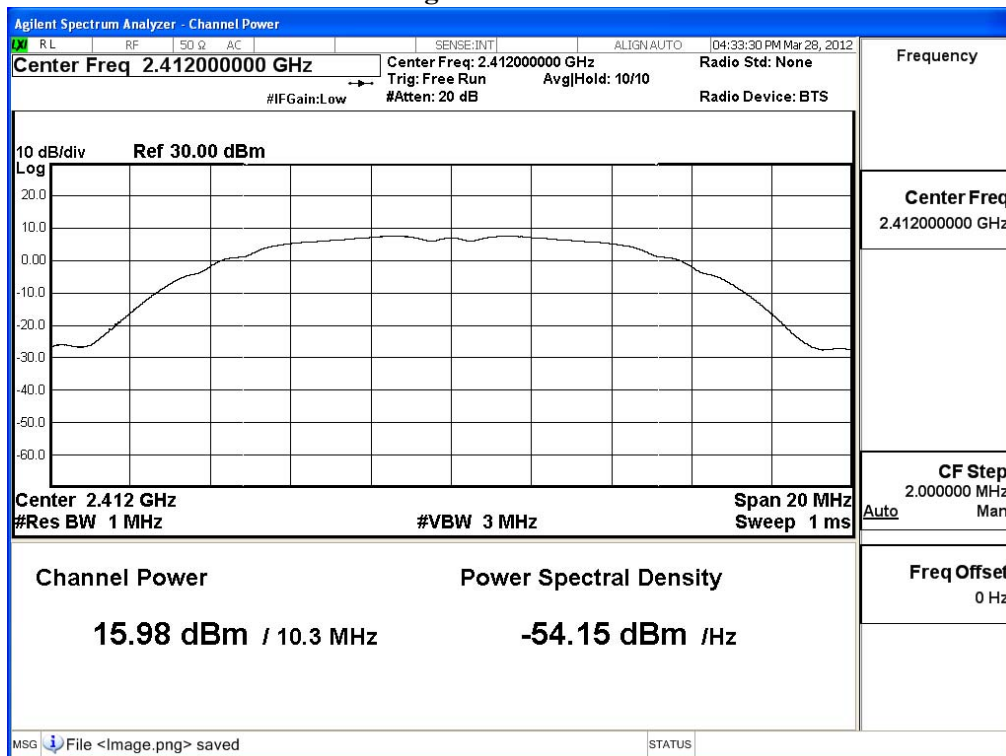


Figure Channel 6:

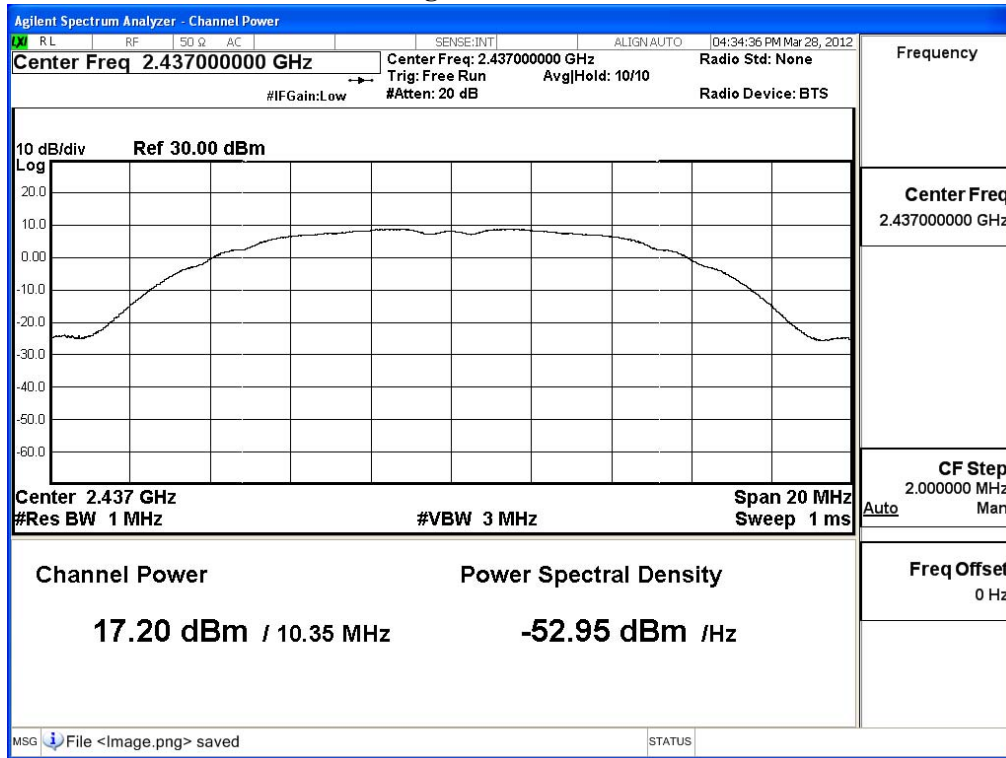
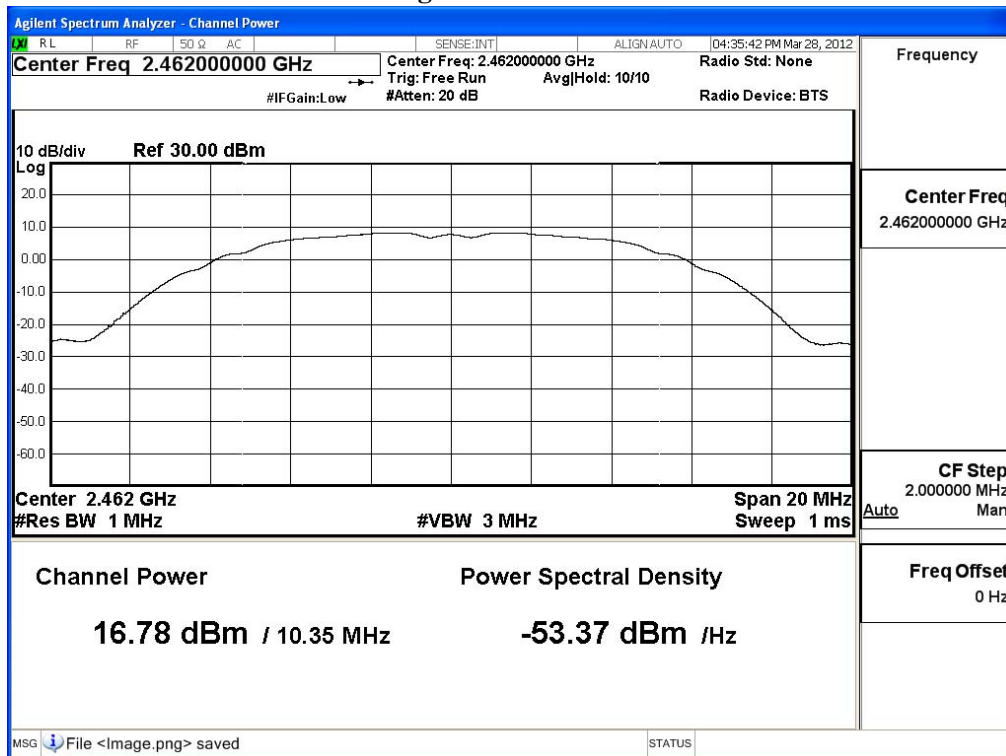


Figure Channel 11:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit - 802.11b 1Mbps

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11			
		Measurement Level (dBm)						
01	2412	14.04	--	--	--	15.48	<30dBm	Pass
06	2437	14.08	13.95	13.84	13.77	15.69	<30dBm	Pass
11	2462	13.47	--	--	--	15.78	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
 (Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

Figure Channel 1:

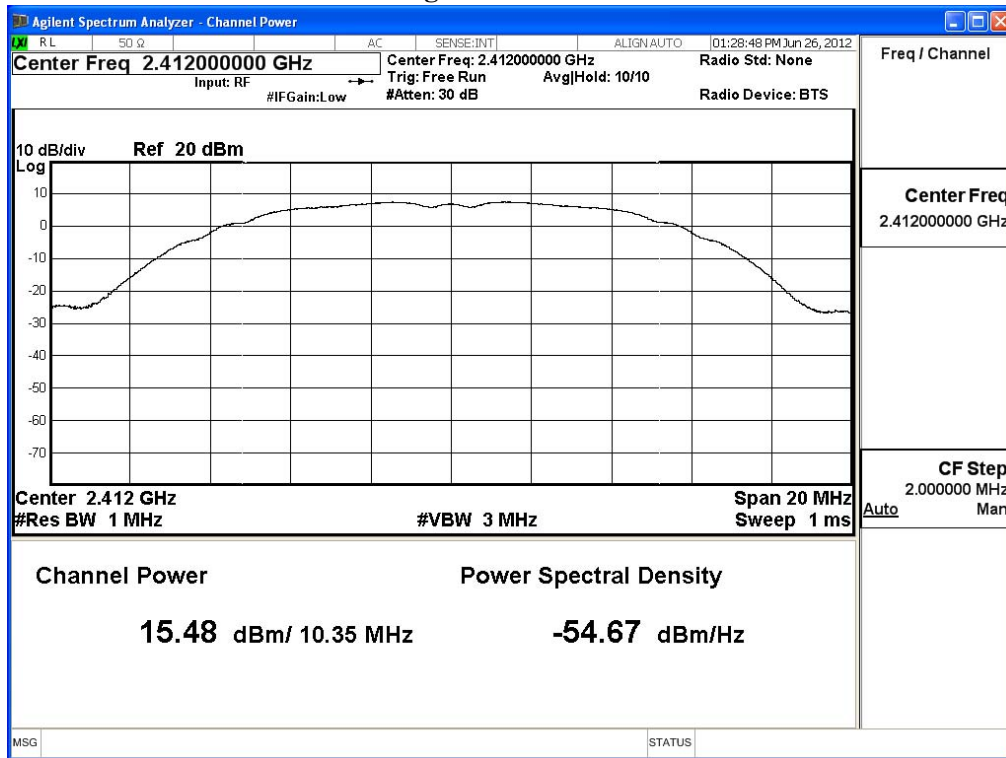


Figure Channel 6:

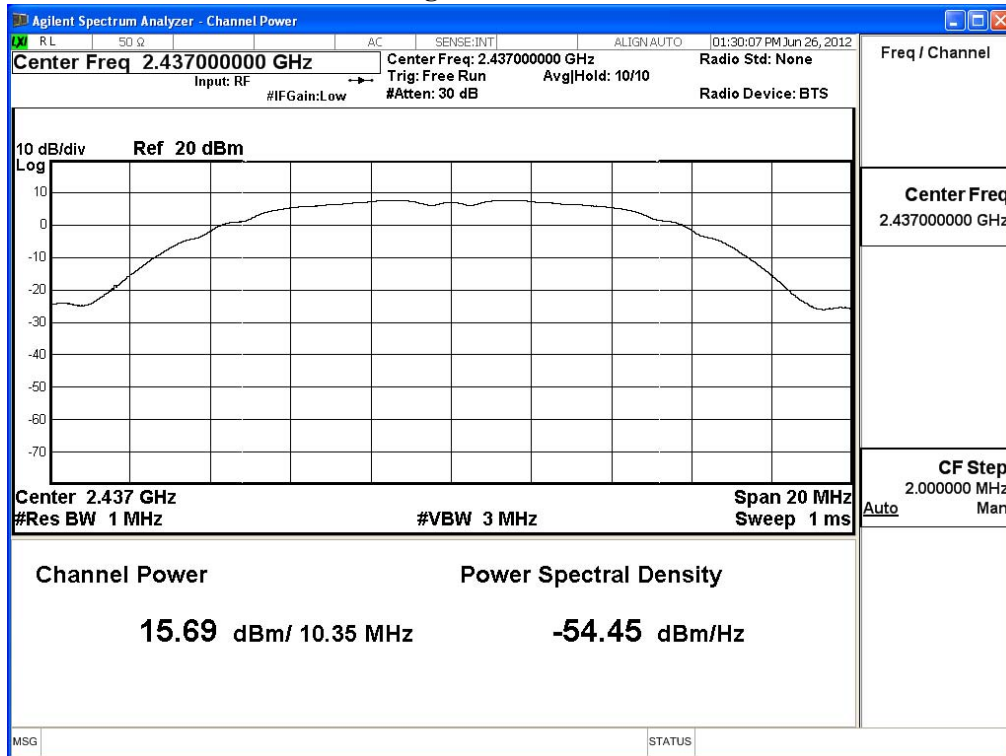
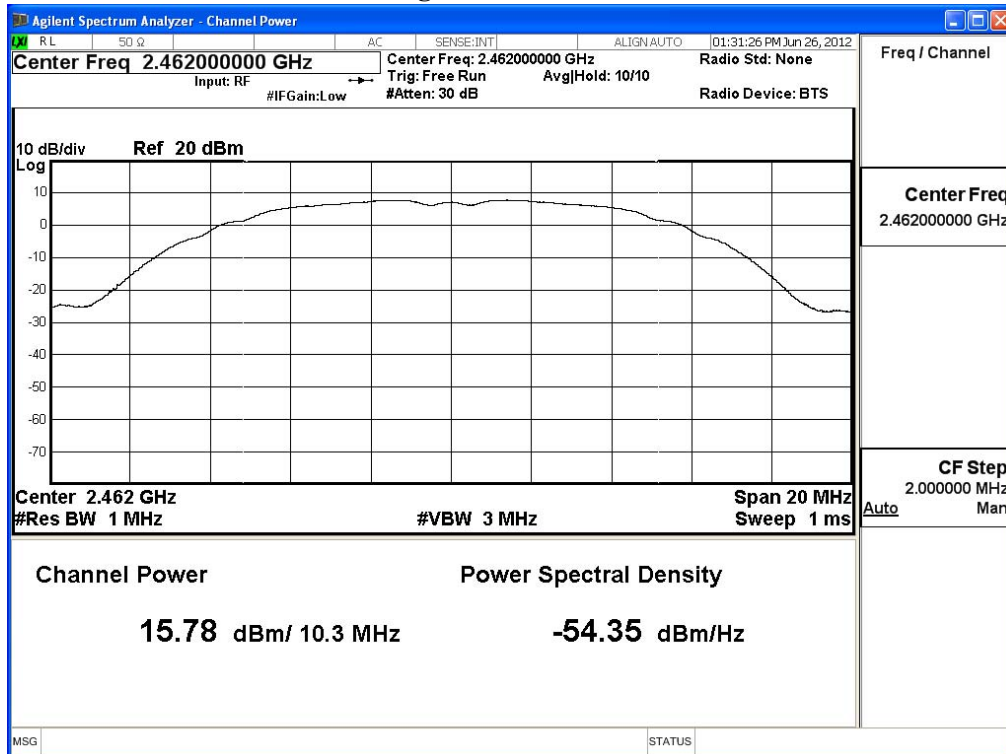


Figure Channel 11:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	11.29	--	--	--	--	--	--	--	18.36	<30dBm	Pass
06	2437	15.01	14.87	14.85	14.78	14.71	14.61	14.52	14.48	21.74	<30dBm	Pass
11	2462	11.34	--	--	--	--	--	--	--	18.15	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

Figure Channel 1:

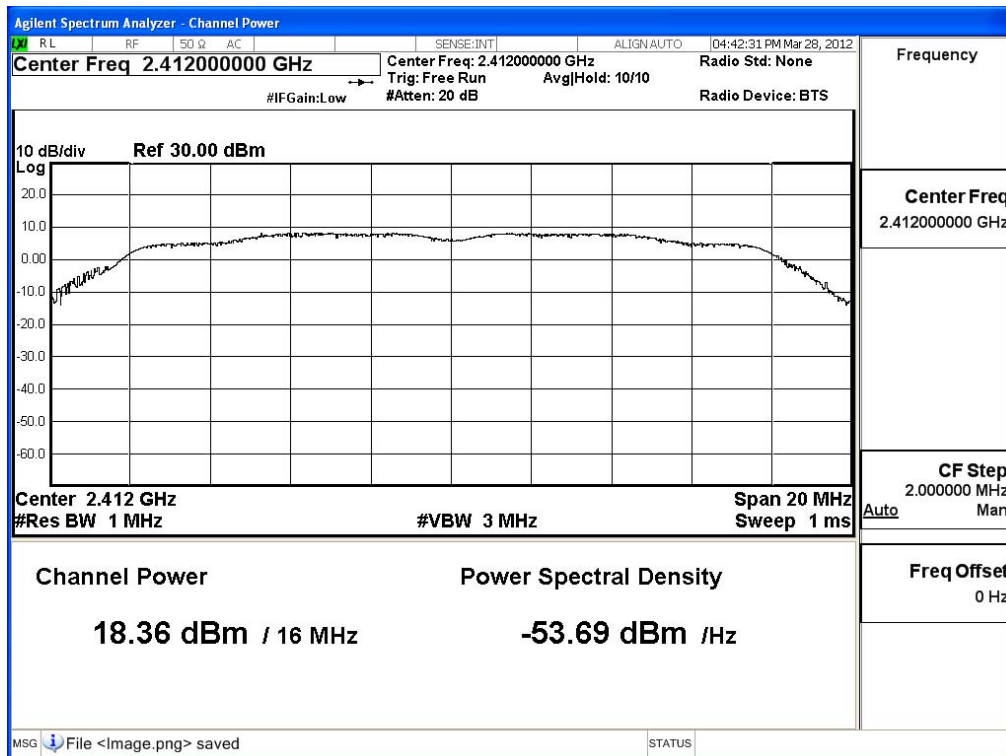


Figure Channel 6:

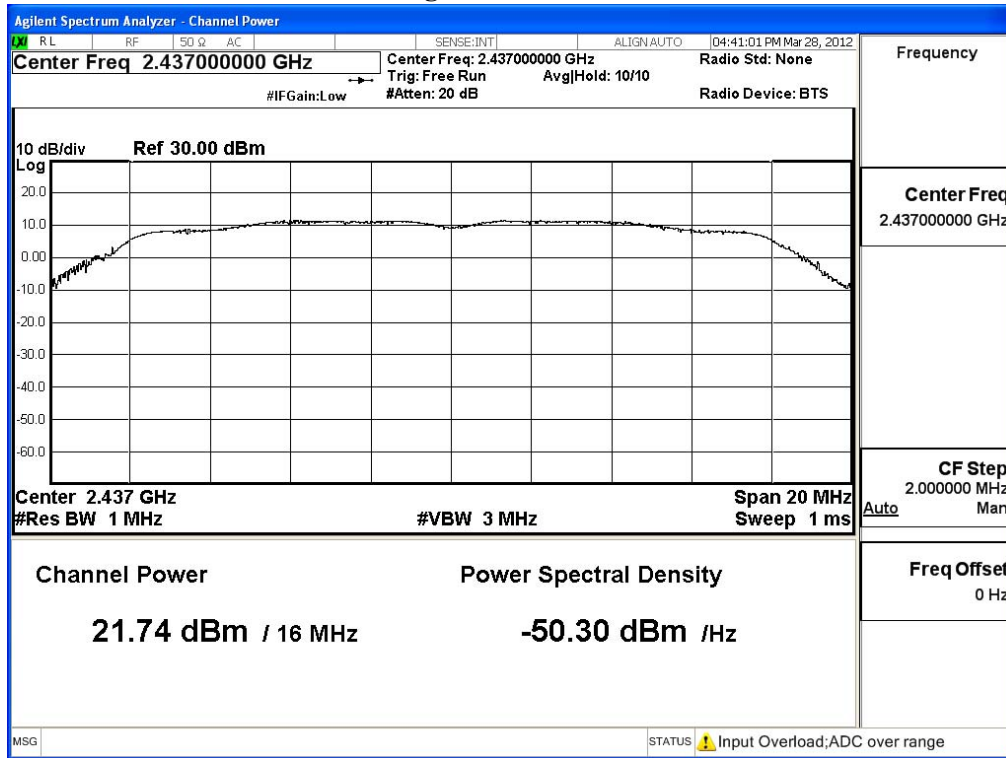
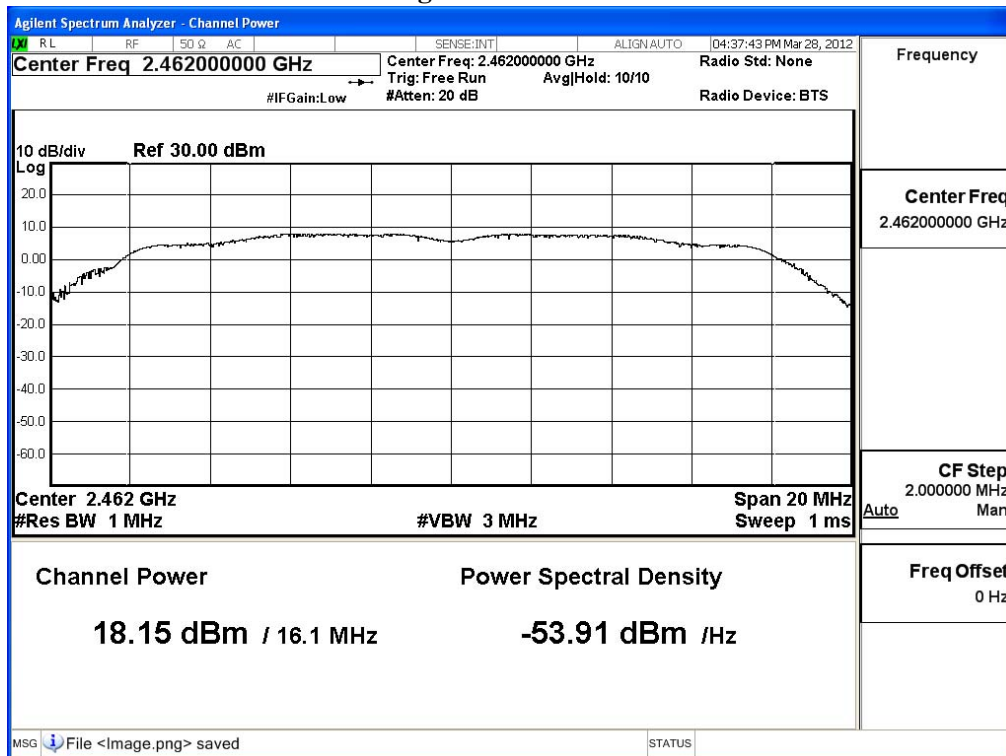


Figure Channel 11:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit - 802.11g 6Mbps

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
01	2412	10.65	--	--	--	--	--	--	--	17.24	<30dBm	Pass
06	2437	14.13	14.08	13.91	13.84	13.76	13.65	13.57	13.43	20.45	<30dBm	Pass
11	2462	10.24	--	--	--	--	--	--	--	17.26	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter +cable loss

Figure Channel 1:

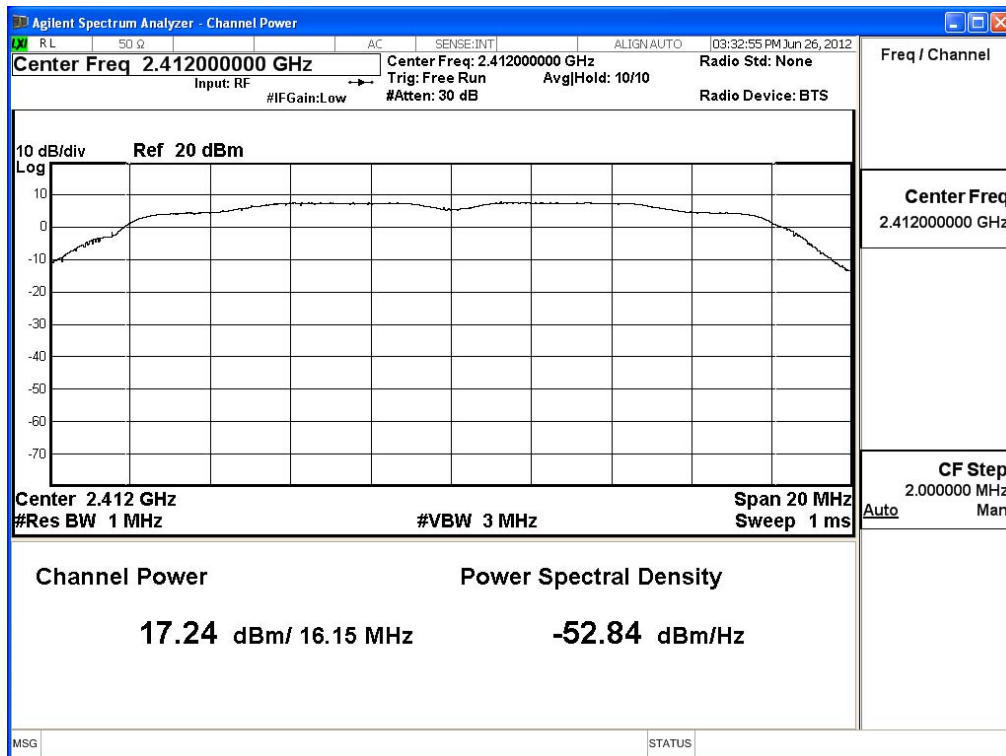


Figure Channel 6:

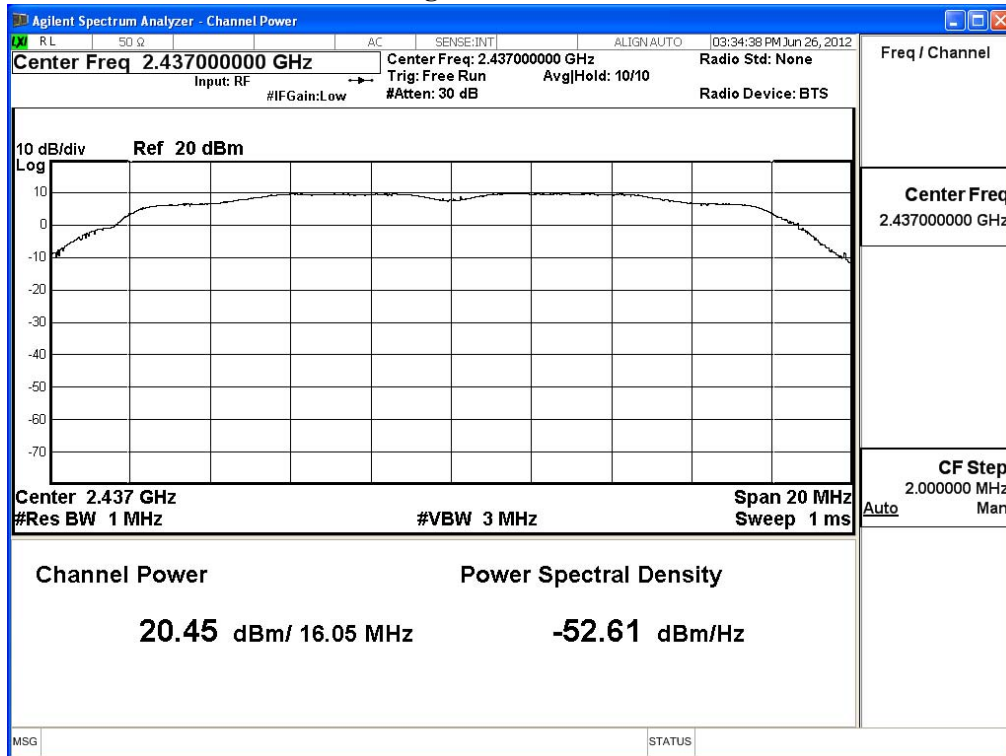
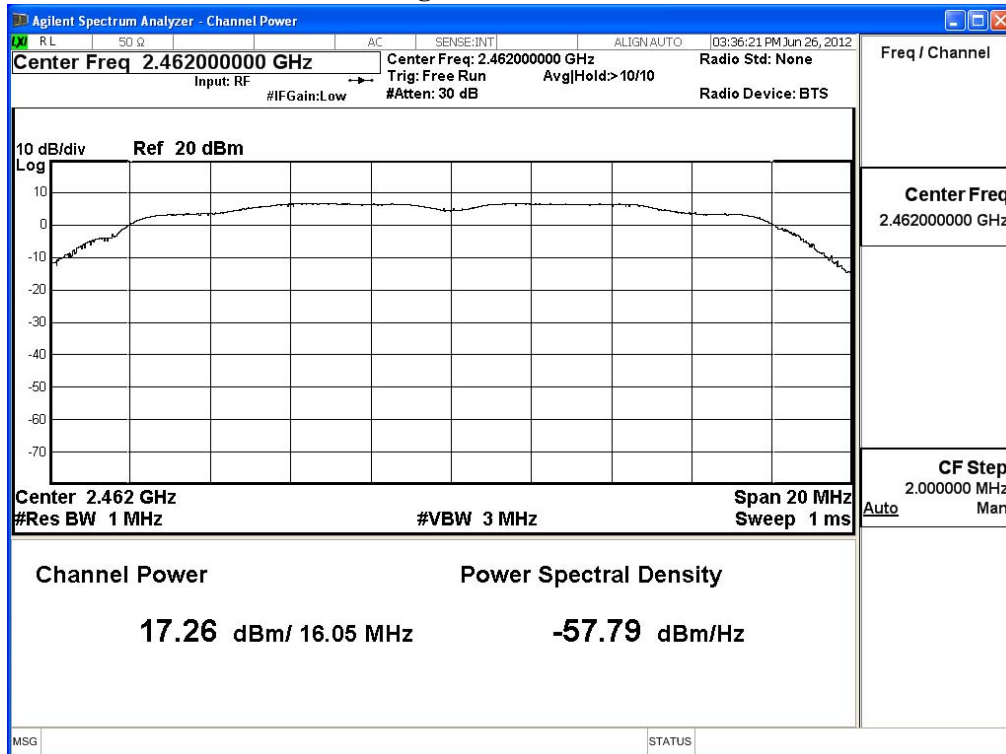


Figure Channel 11:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
149	5745	13.65	--	--	--	--	--	--	--	18.71	<30dBm	Pass
157	5785	14.21	14.15	14.08	13.94	13.84	13.76	13.62	13.55	20.02	<30dBm	Pass
165	5825	13.92	--	--	--	--	--	--	--	19.67	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

Figure Channel 149:

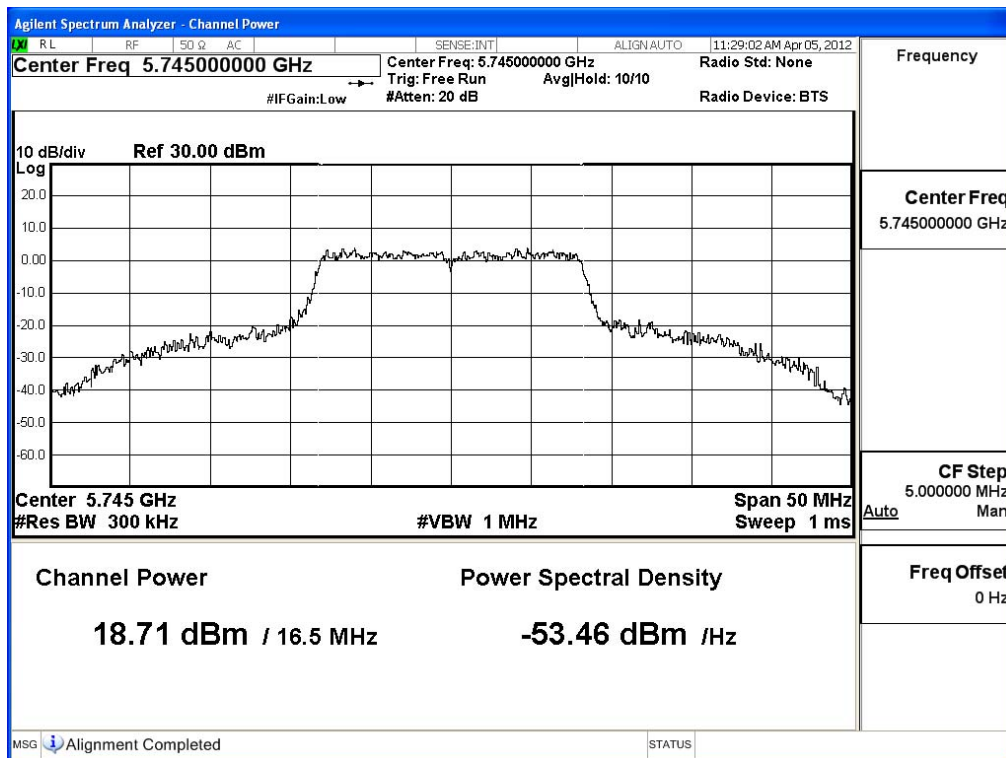


Figure Channel 157:

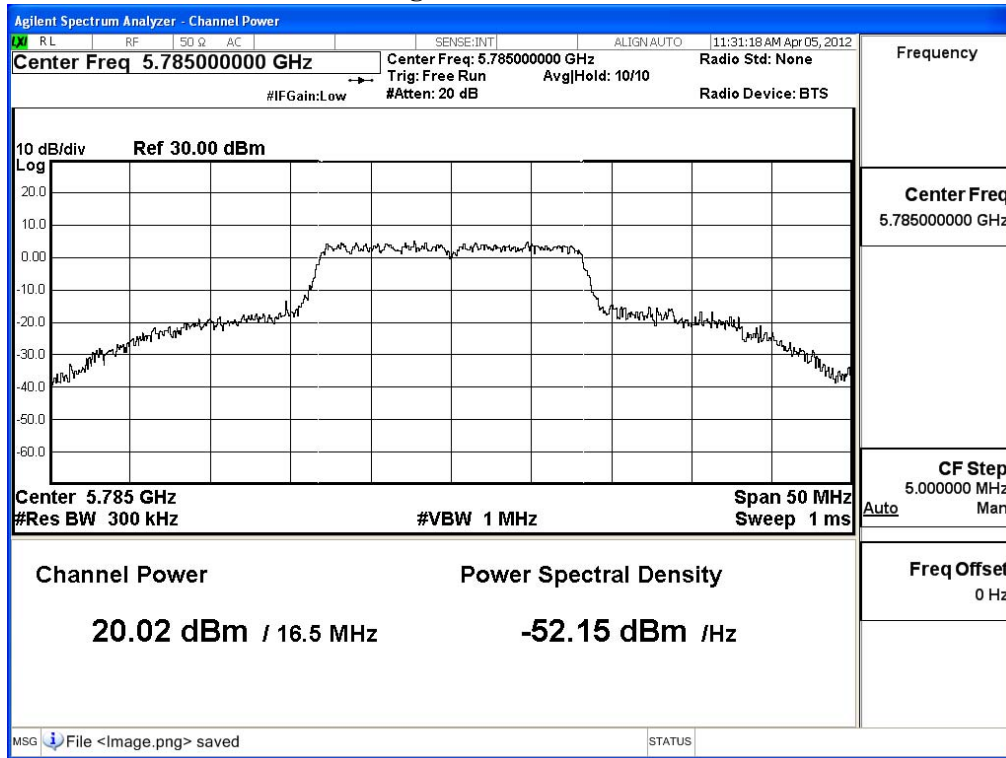
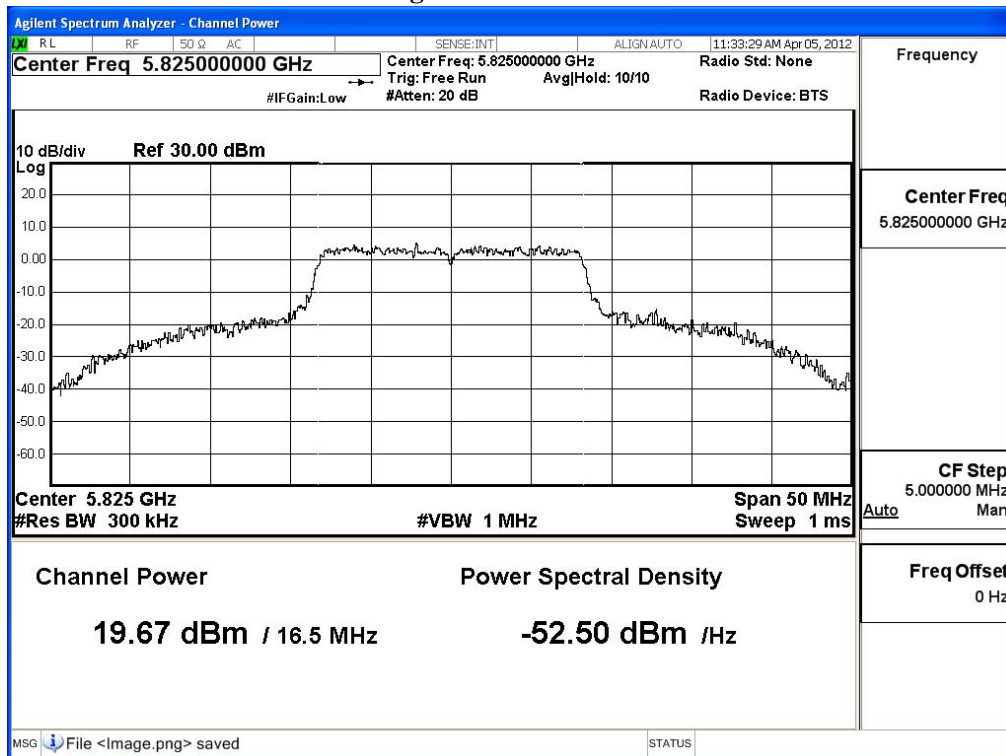


Figure Channel 165:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit - 802.11a 6Mbps

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54			
		Measurement Level (dBm)										
149	5745	12.64	--	--	--	--	--	--	--	17.61	<30dBm	Pass
157	5785	13.55	13.48	13.34	13.25	13.18	13.06	12.95	12.84	19.47	<30dBm	Pass
165	5825	13.45	--	--	--	--	--	--	--	19.04	<30dBm	Pass

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter +cable loss

Figure Channel 149:

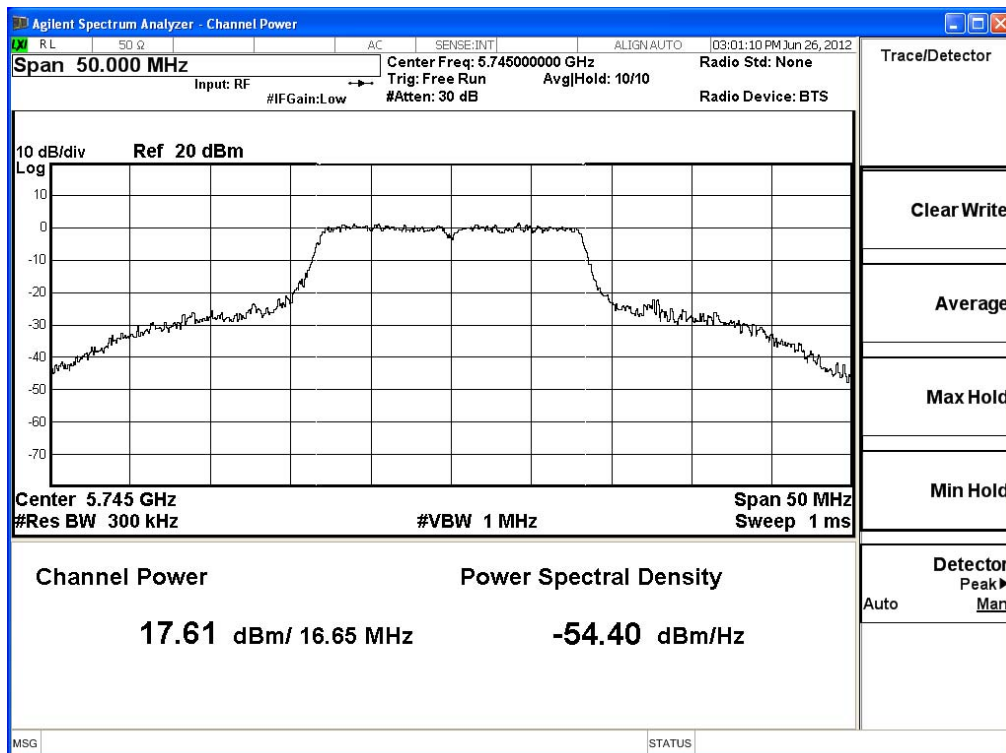


Figure Channel 157:

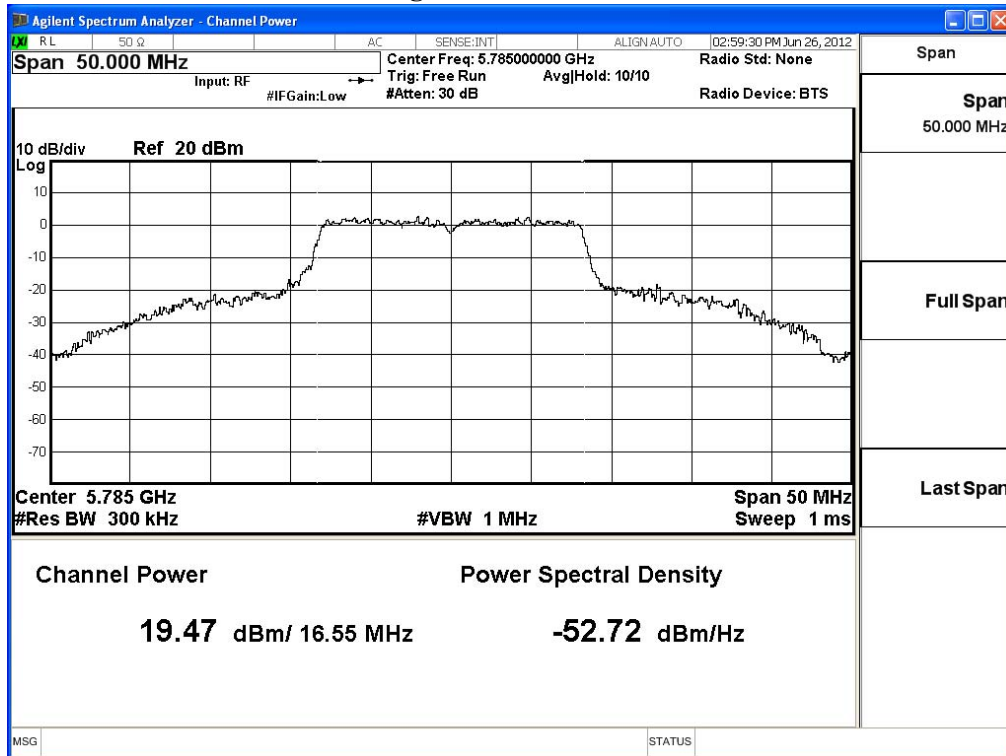
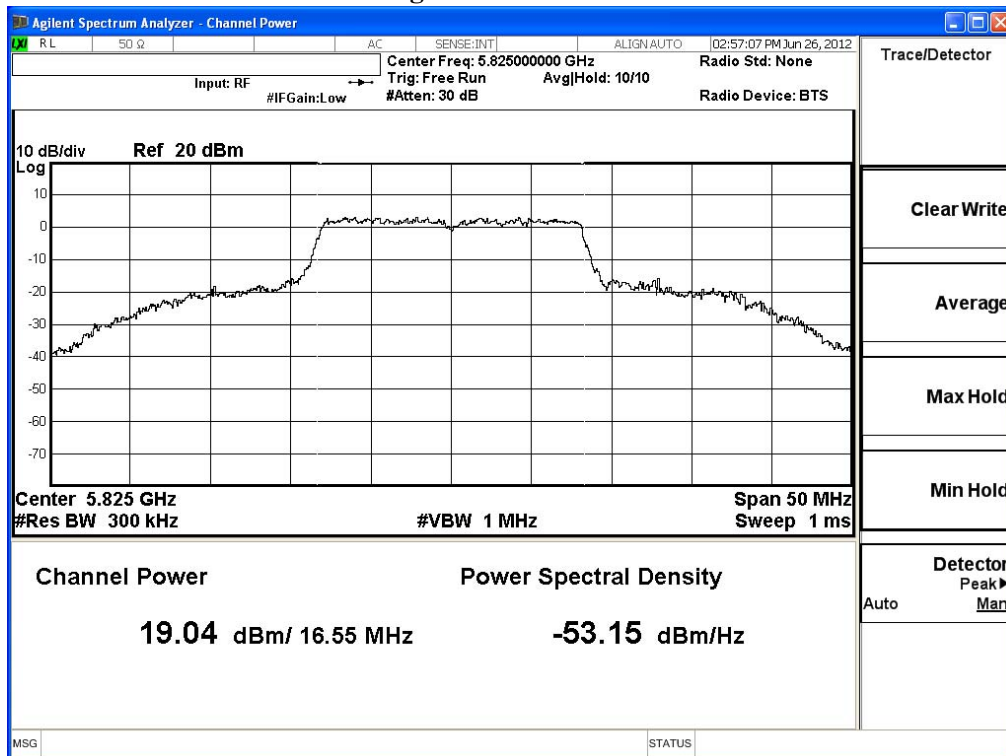


Figure Channel 165:



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	11.14	--	--	--	--	--	--	--	18.59
06	2437	11.63	11.57	11.43	11.37	11.24	11.1	11.04	10.97	19.7
11	2462	9.73	--	--	--	--	--	--	--	18.25

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
01	2412	9.1	--	--	--	--	--	--	--	17.43
06	2437	11.1	11.05	10.97	10.86	10.71	10.62	10.57	10.44	18.83
11	2462	7.83	--	--	--	--	--	--	--	16.42

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	HT8	18.59	17.43	21.06	<30dBm	Pass
6	2437	HT8	19.70	18.83	22.30	<30dBm	Pass
11	2462	HT8	18.25	16.42	20.44	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Figure Channel 1: (Chain A)

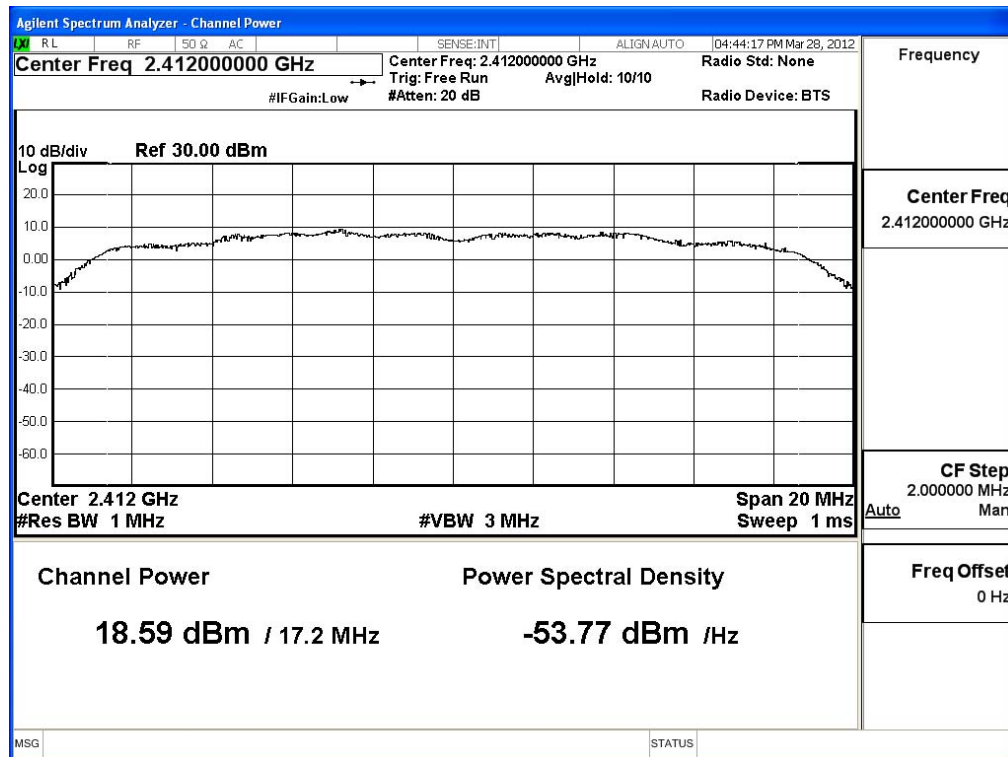


Figure Channel 6: (Chain A)

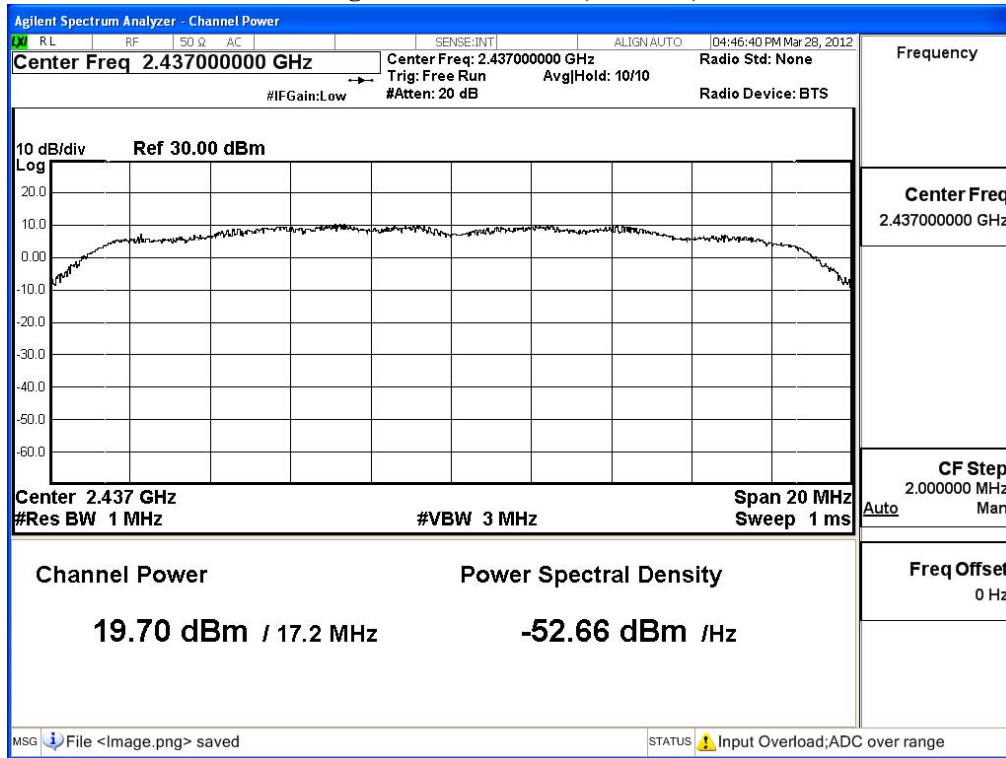


Figure Channel 11: (Chain A)

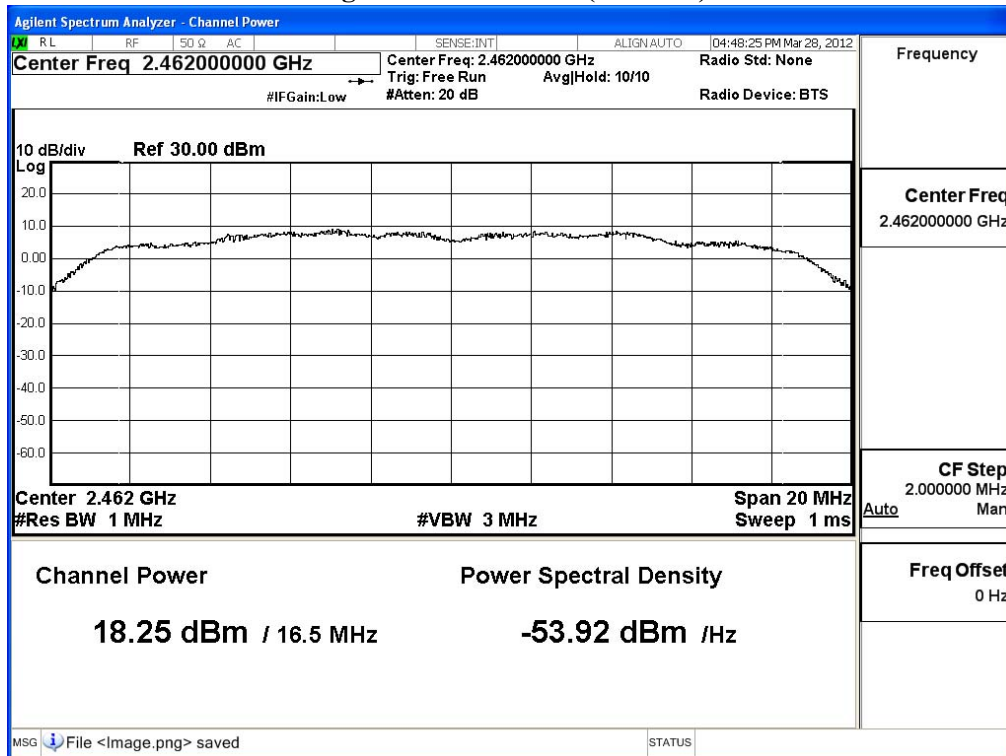


Figure Channel 1: (Chain B)

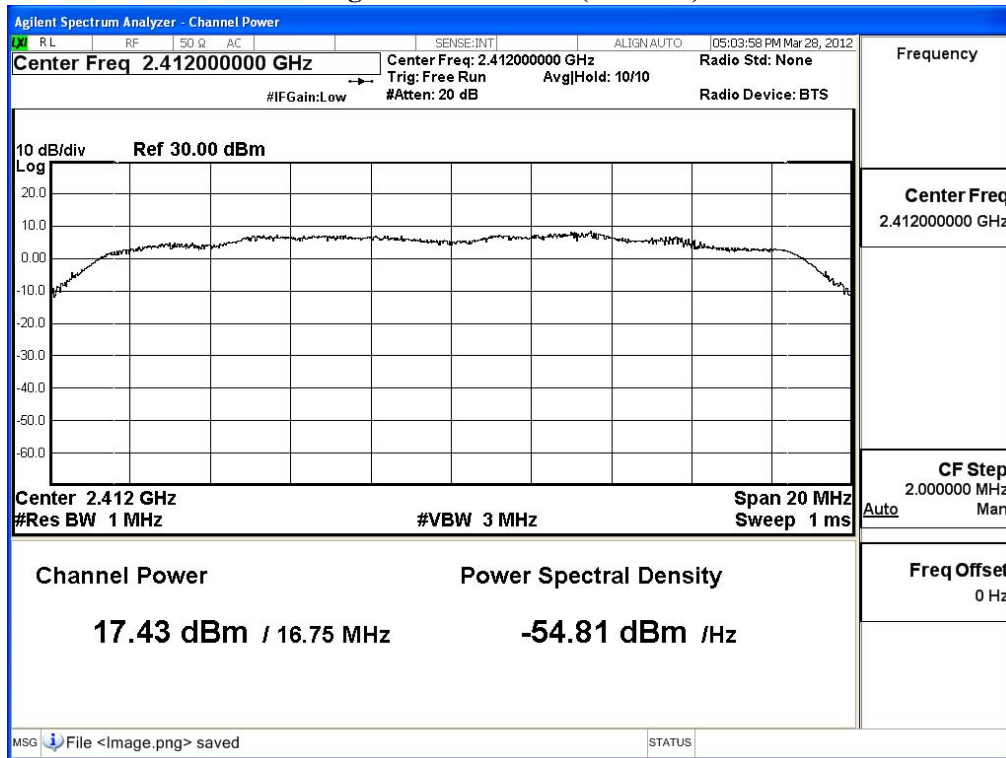


Figure Channel 6: (Chain B)

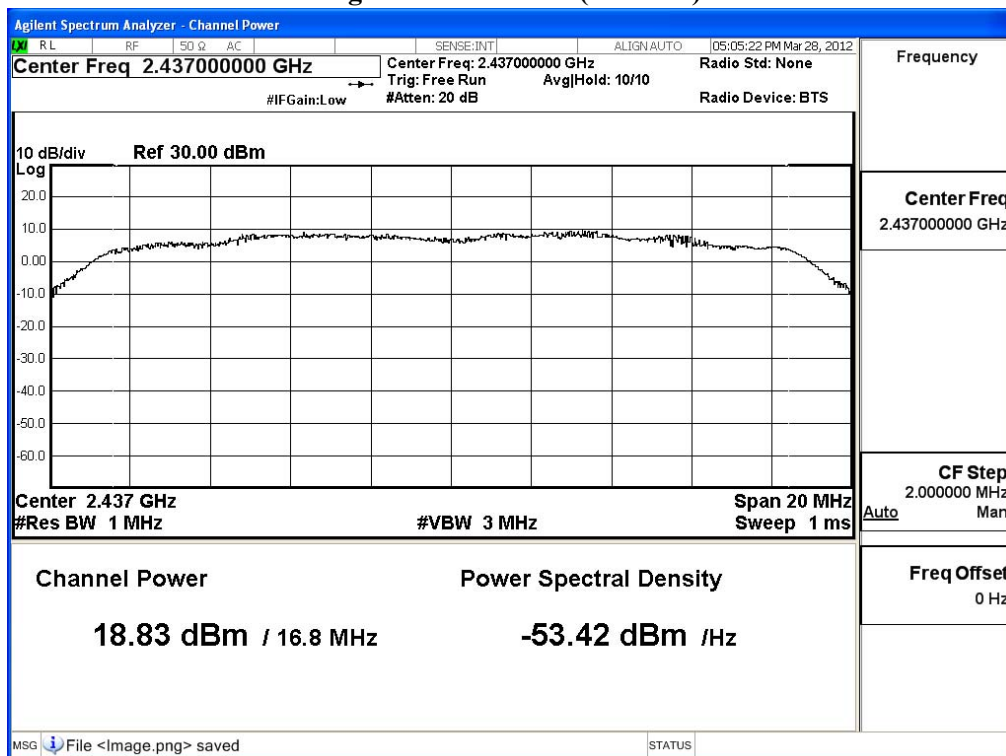
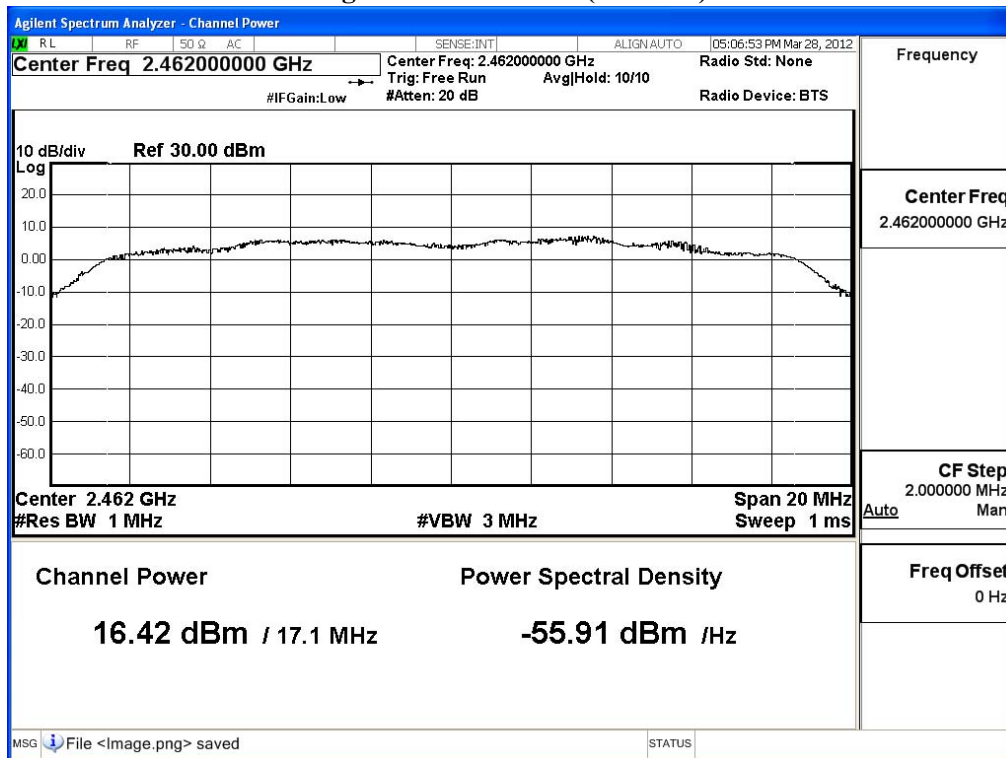


Figure Channel 11: (Chain B)



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
3	2422	10.5	--	--	--	--	--	--	--	18.28
6	2437	10.87	10.79	10.62	10.53	10.47	10.35	10.28	10.13	19.25
9	2452	11.7	--	--	--	--	--	--	--	19.41

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
3	2422	9.54	--	--	--	--	--	--	--	16.54
6	2437	10.87	10.76	10.65	10.59	10.47	10.3	10.24	10.16	17.62
9	2452	11.17	--	--	--	--	--	--	--	18.03

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	HT8	18.28	16.54	20.51	<30dBm	Pass
6	2437	HT8	19.25	17.62	21.52	<30dBm	Pass
9	2452	HT8	19.41	18.03	21.78	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Figure Channel 3: (Chain A)

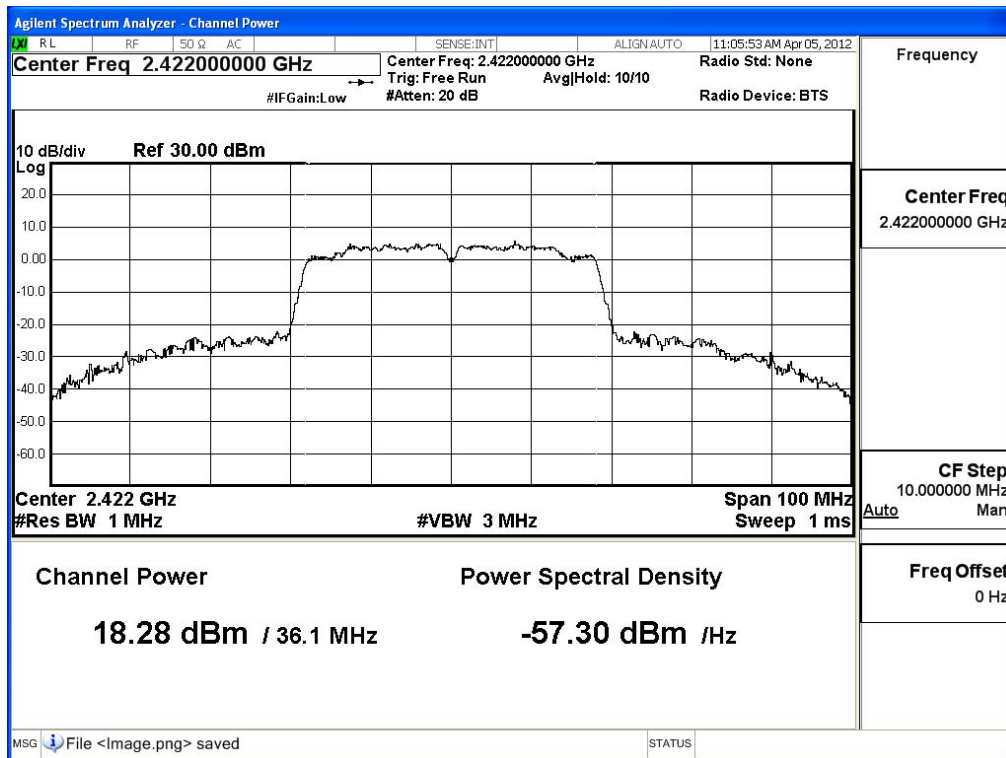


Figure Channel 6: (Chain A)

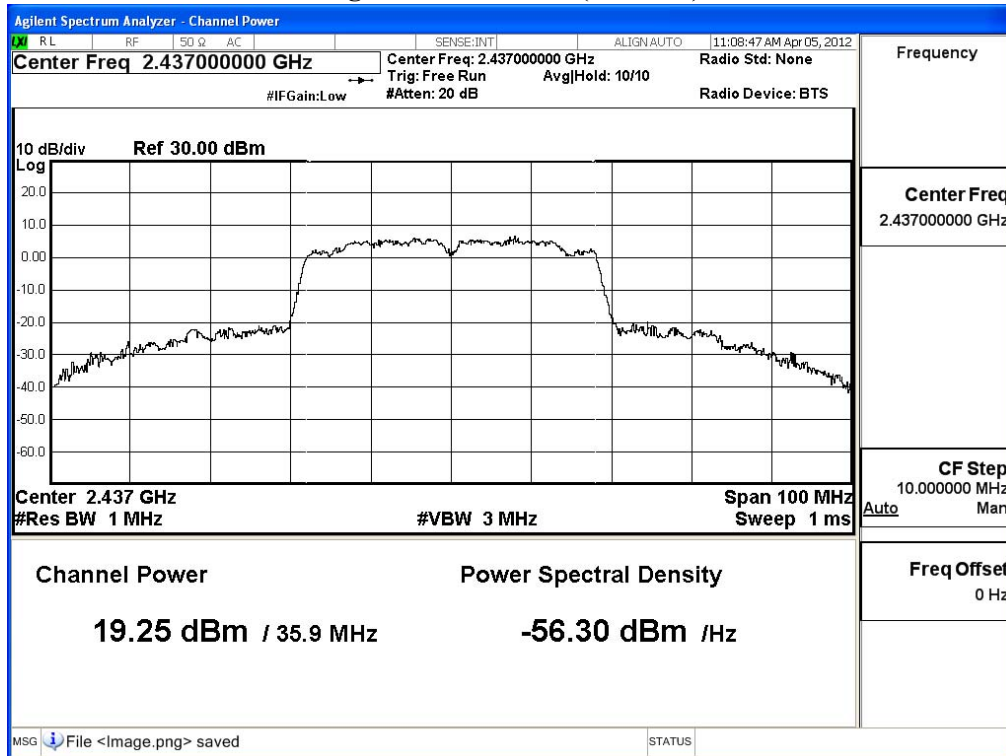


Figure Channel 9: (Chain A)

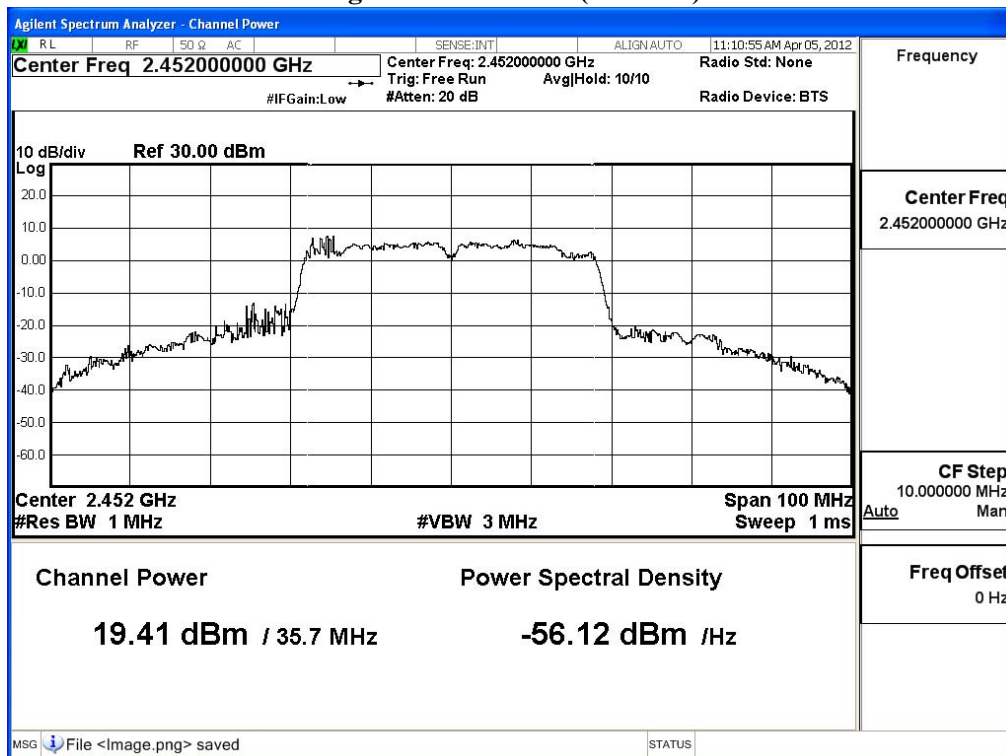


Figure Channel 3: (Chain B)

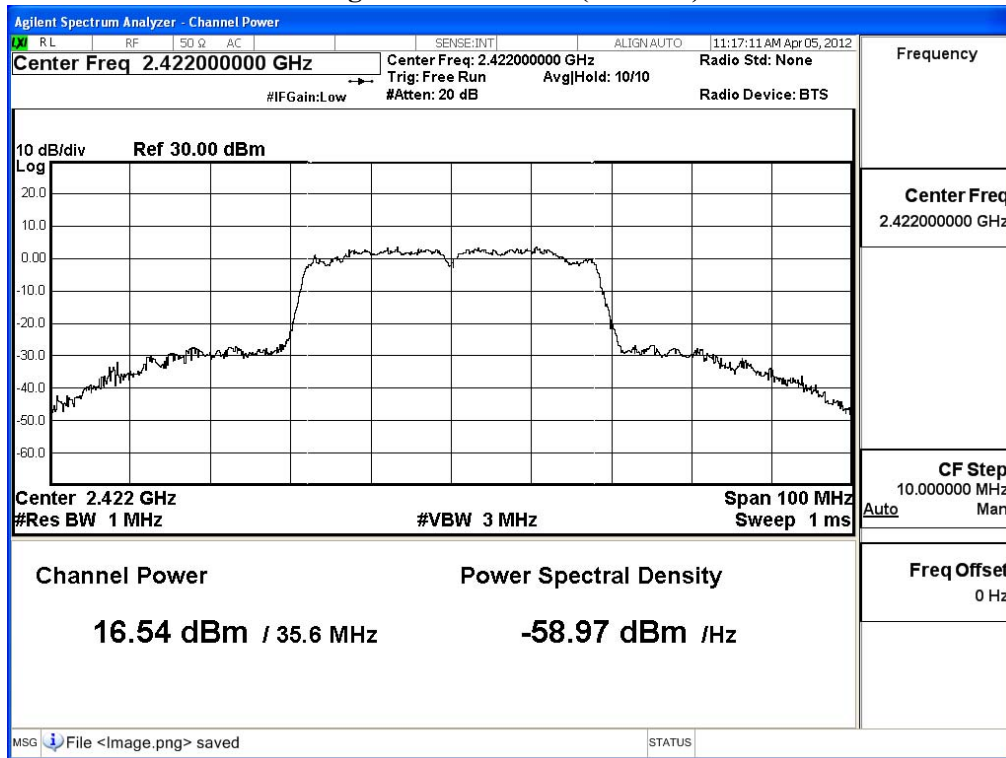


Figure Channel 6: (Chain B)

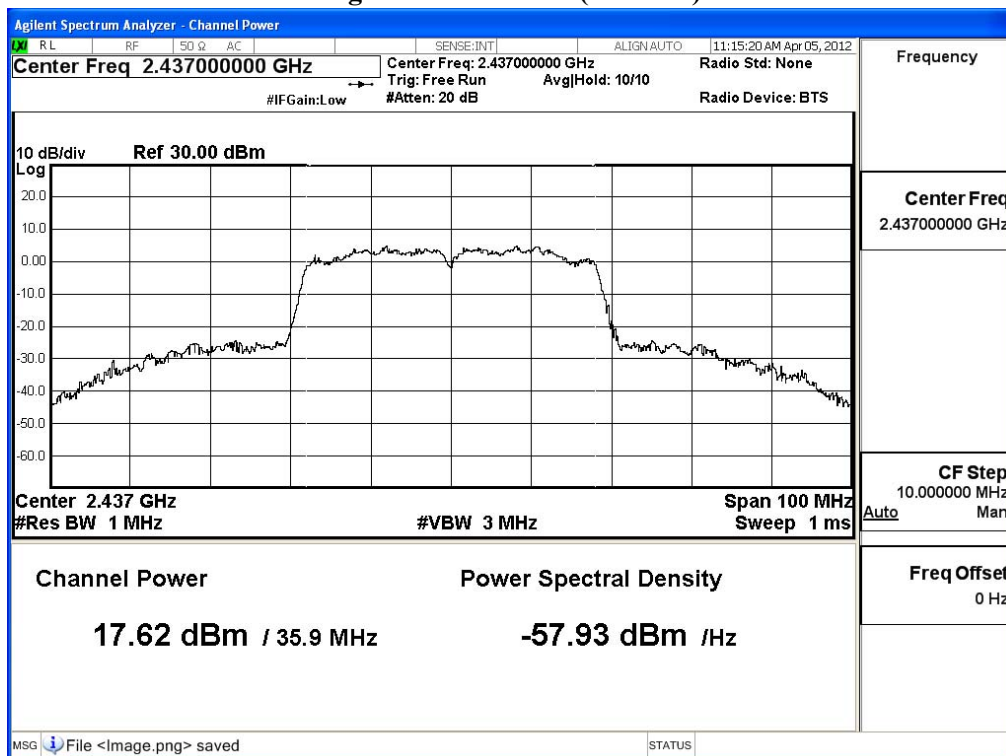


Figure Channel 9: (Chain B)



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit - 802.11n-20BW_14.4Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
Measurement Level (dBm)										
149	5745	9.51	--	--	--	--	--	--	--	16.18
157	5785	10.34	10.28	10.17	10.02	9.95	9.83	9.74	9.67	17.34
165	5825	10.79	--	--	--	--	--	--	--	16.82

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
Measurement Level (dBm)										
149	5745	8.5	--	--	--	--	--	--	--	15.83
157	5785	9.4	9.37	9.24	9.17	9.06	8.94	8.86	8.73	16.36
165	5825	10.92	--	--	--	--	--	--	--	16.7

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
149	5745	HT8	16.18	15.83	19.02	<30dBm	Pass
157	5785	HT8	17.34	16.36	19.89	<30dBm	Pass
165	5825	HT8	16.82	16.70	19.77	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Figure Channel 149: (Chain A)

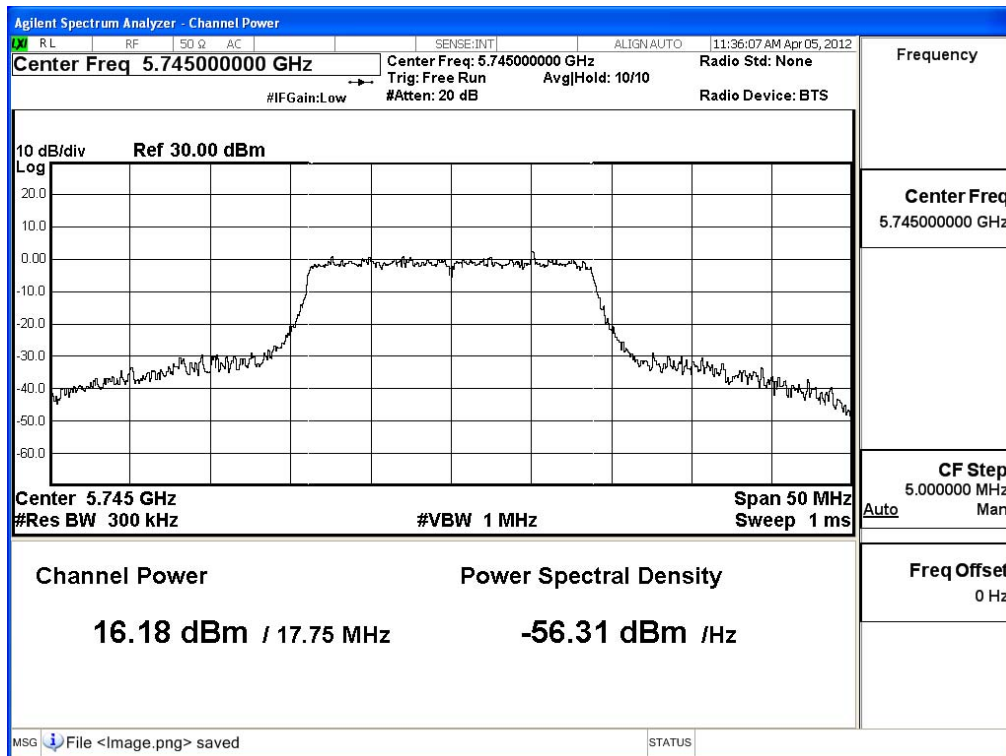


Figure Channel 157: (Chain A)

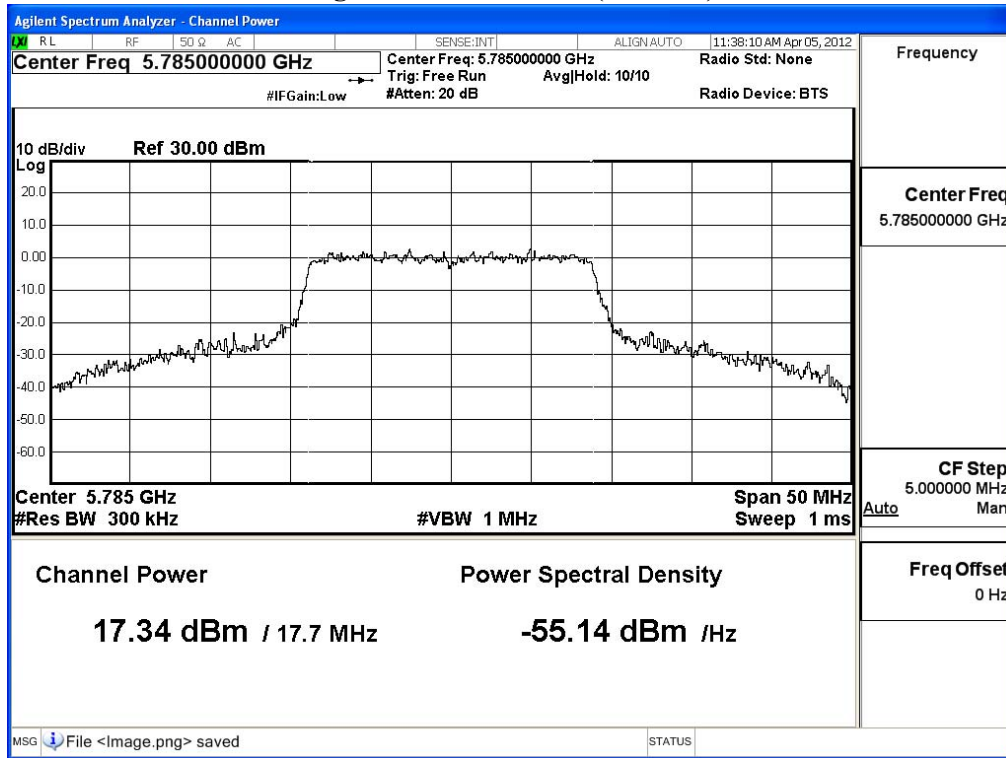


Figure Channel 165: (Chain A)

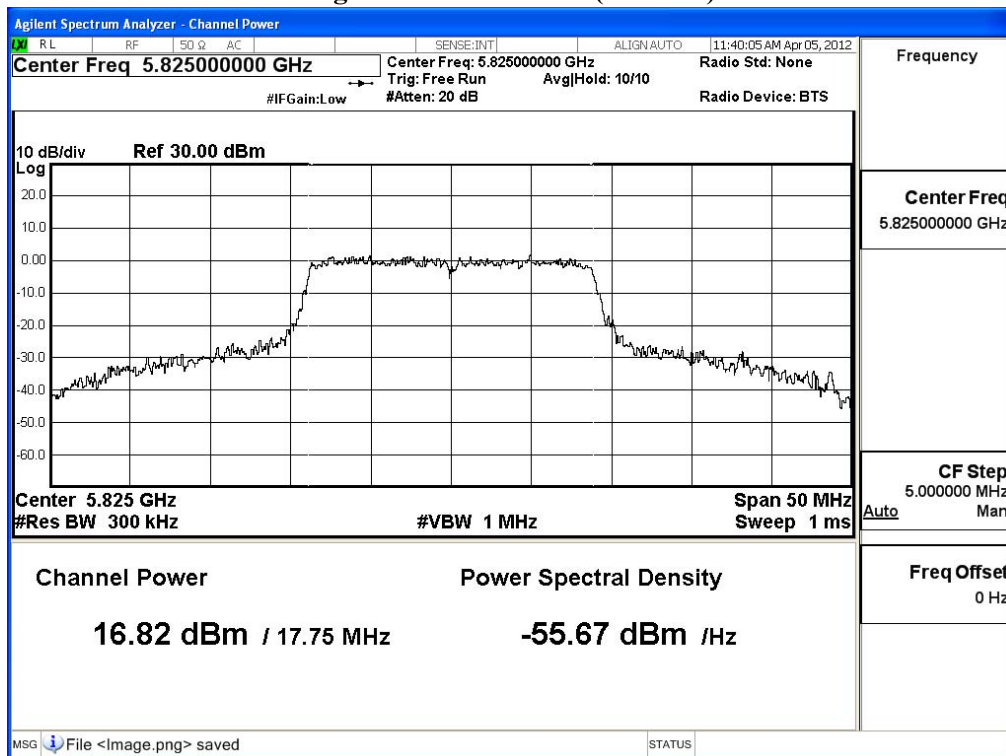


Figure Channel 149: (Chain B)

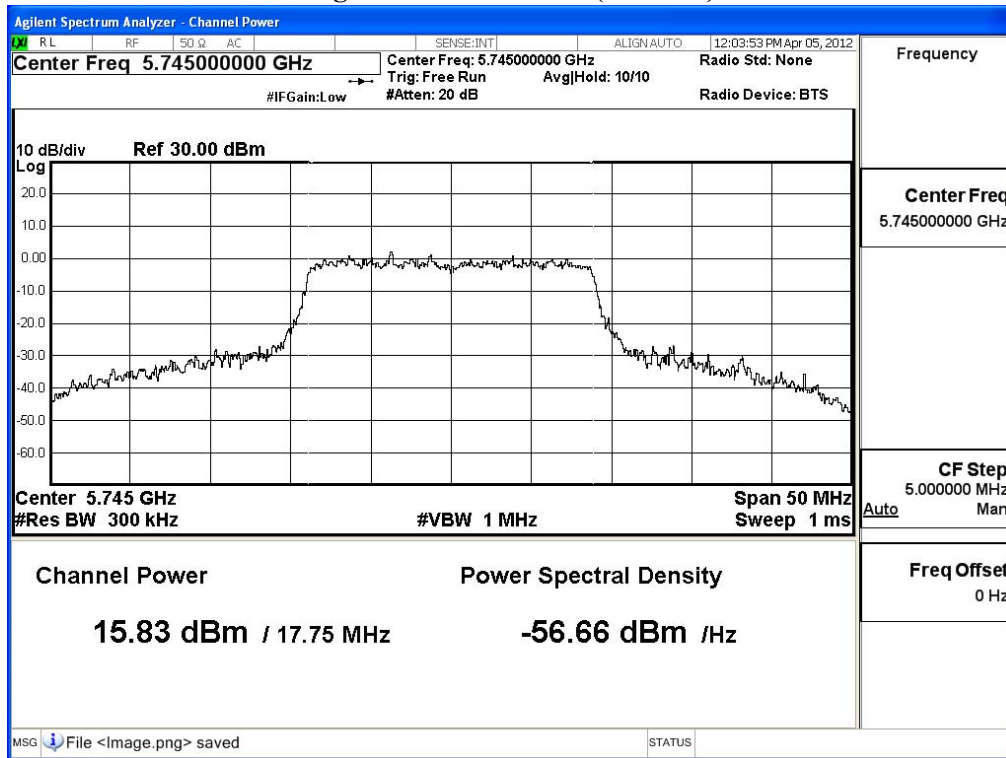


Figure Channel 157: (Chain B)

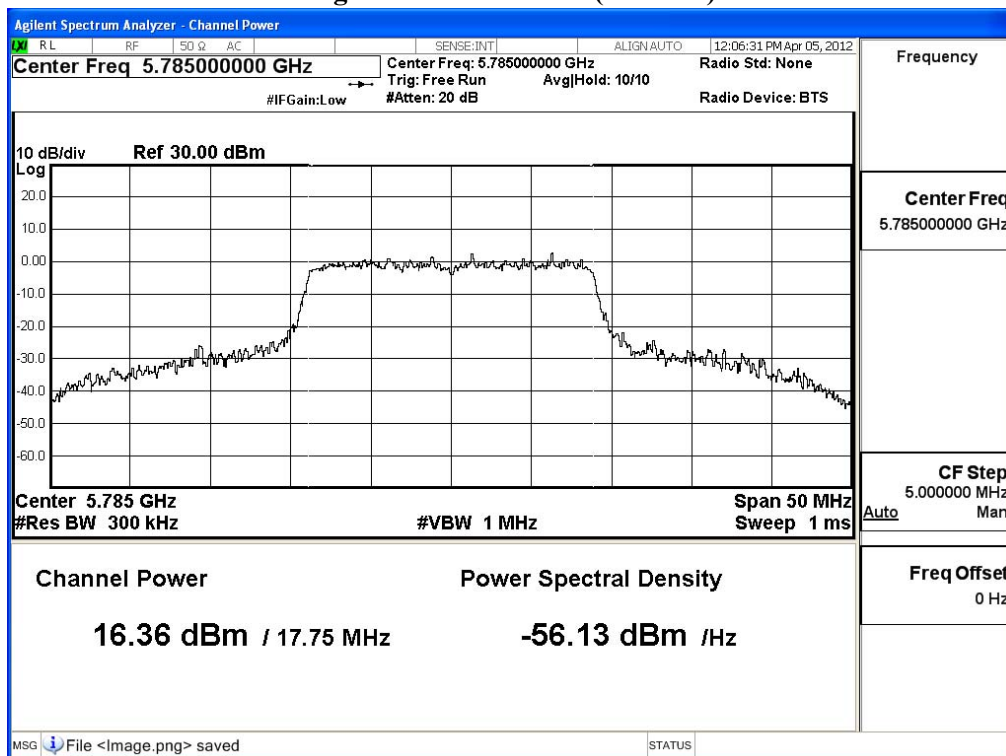
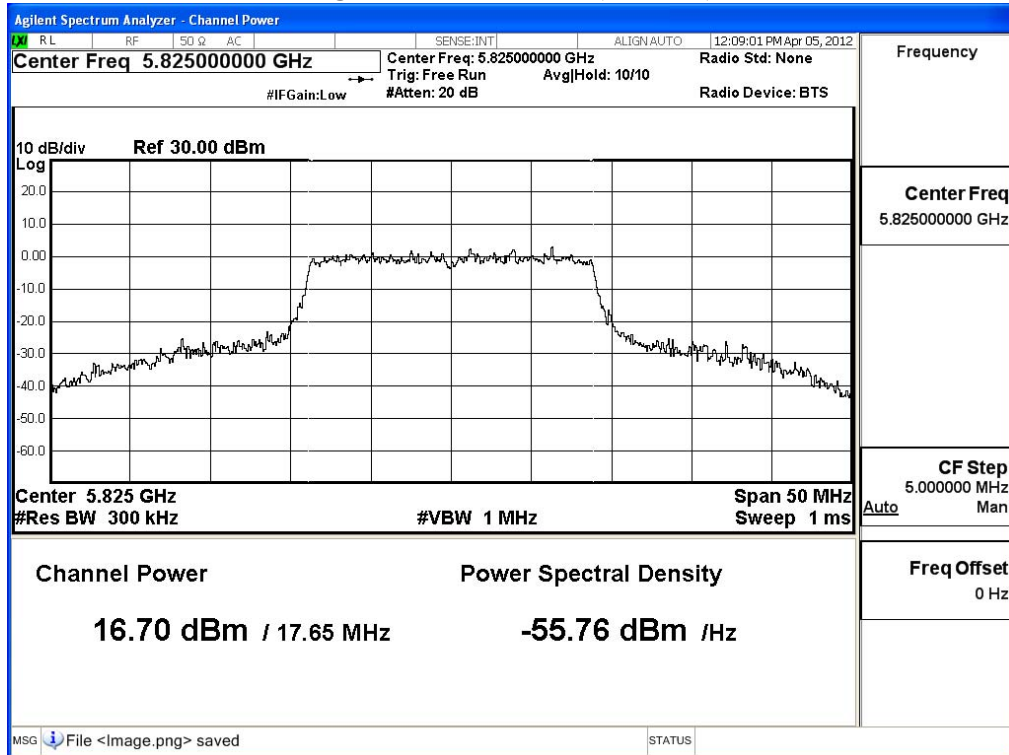


Figure Channel 165: (Chain B)



Product : Tablet PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 7: Transmit - 802.11n-40BW_30Mbps(5G Band)

CHAIN A

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		30	60	90	120	180	240	270	300	
Measurement Level (dBm)										
151	5755	9.6	--	--	--	--	--	--	--	16.76
159	5795	10.76	10.65	10.53	10.46	10.37	10.26	10.17	10.07	17.55

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power								Peak Power
		For different Data Rate (Mbps)								
		30	60	90	120	180	240	270	300	
Measurement Level (dBm)										
151	5755	7.95	--	--	--	--	--	--	--	16.67
159	5795	8.56	8.43	8.37	8.24	8.16	8.07	8	7.94	17.34

Note:

1. Peak Power Output Value = Reading value on Spectrum Analyzer + cable loss
(Use the spectrum analyzer's integrated channel power measurement function)
2. Average Power for different data rate = Reading value on Power Meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
151	5755	HT8	16.76	16.67	19.73	<30dBm	Pass
159	5795	HT8	17.55	17.34	20.46	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Figure Channel 151: (Chain A)

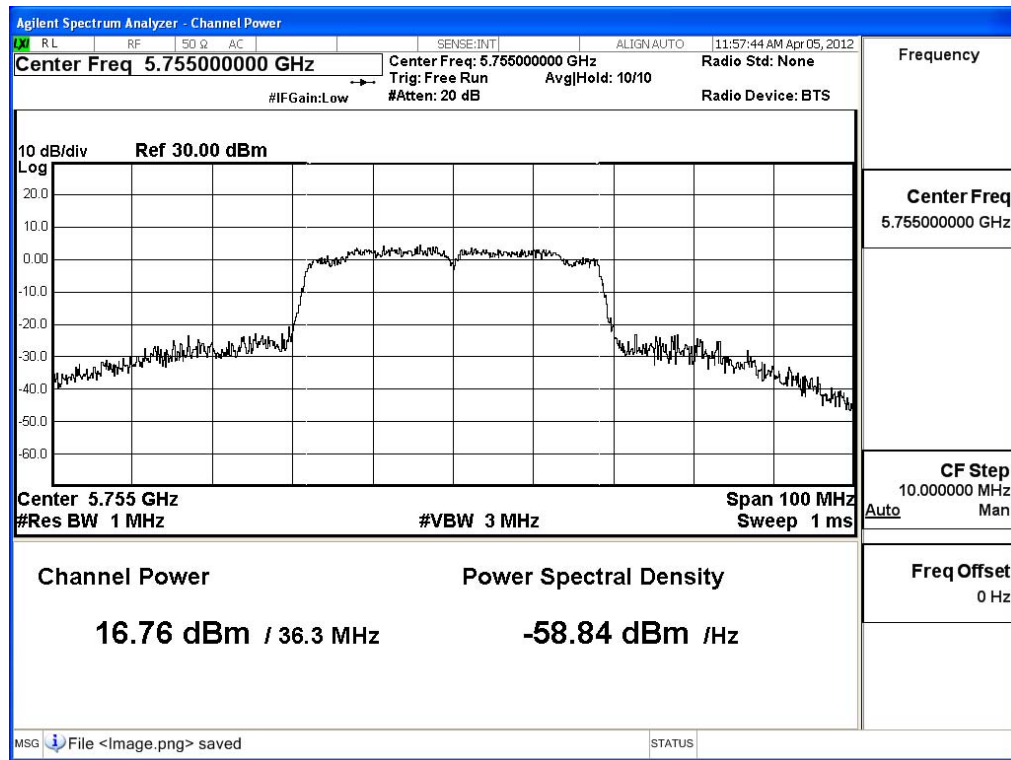


Figure Channel 159: (Chain A)

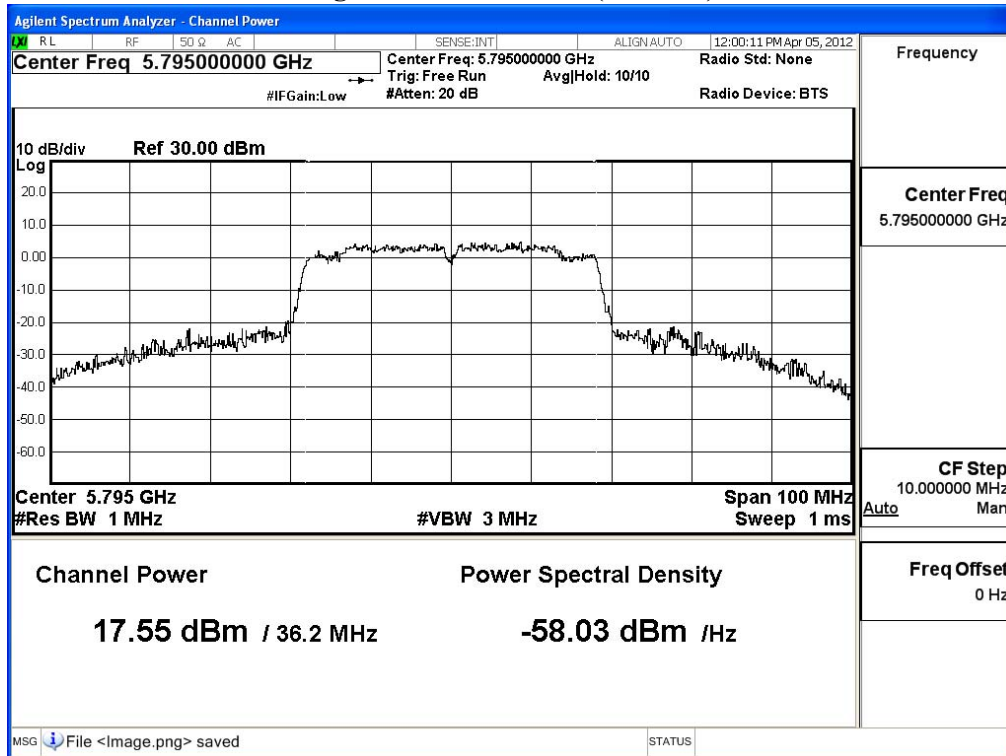


Figure Channel 151: (Chain B)

