



Test Report

Product Name : WIRELESS-A/N 26DBM NETWORK MINI PCI
ADAPTER

Model No. : IWAVEPORT WLM200N5-26

FCC ID : TK4-WLM200N5-26

Applicant : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Date of Receipt : 2008/10/30

Issued Date : 2008/12/09

Report No. : 08BS034R-RF-US-P05V01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP or any agency of the Government.
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Test Report Certification

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Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Manufacturer : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Model No. : IWAVEPORT WLM200N5-26

FCC ID : TK4-WLM200N5-26

EUT Voltage : DC 3.3V

Trade Name : COMPEX

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
ANSI C63.4: 2003

Test Result : Complied

Performed Location : SuZhou EMC laboratory
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Hi-Tech Development Zone., SuZhou, China
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FCC Registration Number: 800392

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Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
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1. General Information

1.1. EUT Description

Product Name	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Trade Name	COMPEX
Model No.	IWAVEPORT WLM200N5-26
FCC ID	TK4-WLM200N5-26
Working Voltage	DC 3.3V
Frequency Range	For 5.0GHz Band 802.11a/n(20MHz): 5180 - 5320 MHz, 5500 - 5700 MHz, 5745 - 5825MHz 802.11n(40MHz): 5190 - 5310 MHz, 5510 - 5670 MHz, 5755 - 5795 MHz
Channel Number	For 5.0GHz Band 802.11a/n(20MHz): 24 802.11n(40MHz): 11
Type of Modulation	802.11a/n: OFDM
Data Rate	802.11a/n: up to 135 Mbps
Channel Control	Auto
Antenna Type	Dipole
Antenna Gain	Refer to the "Antenna List"

For 5.0GHz Band

802.11a/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	151	5755 MHz	159	5795 MHz	N/A	N/A

802.11a/n Antenna List

Antenna	Manufacturer	Model No.	Peak Gain
MIMO Antenna	Exceltek Electronics (Kunshan) Co.,Ltd	C0053-ANG0004	5GHz: 2.0dBi

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a
Mode 2: Transmit by 802.11n (20MHz)
Mode 3: Transmit by 802.11n (40MHz)

Note:

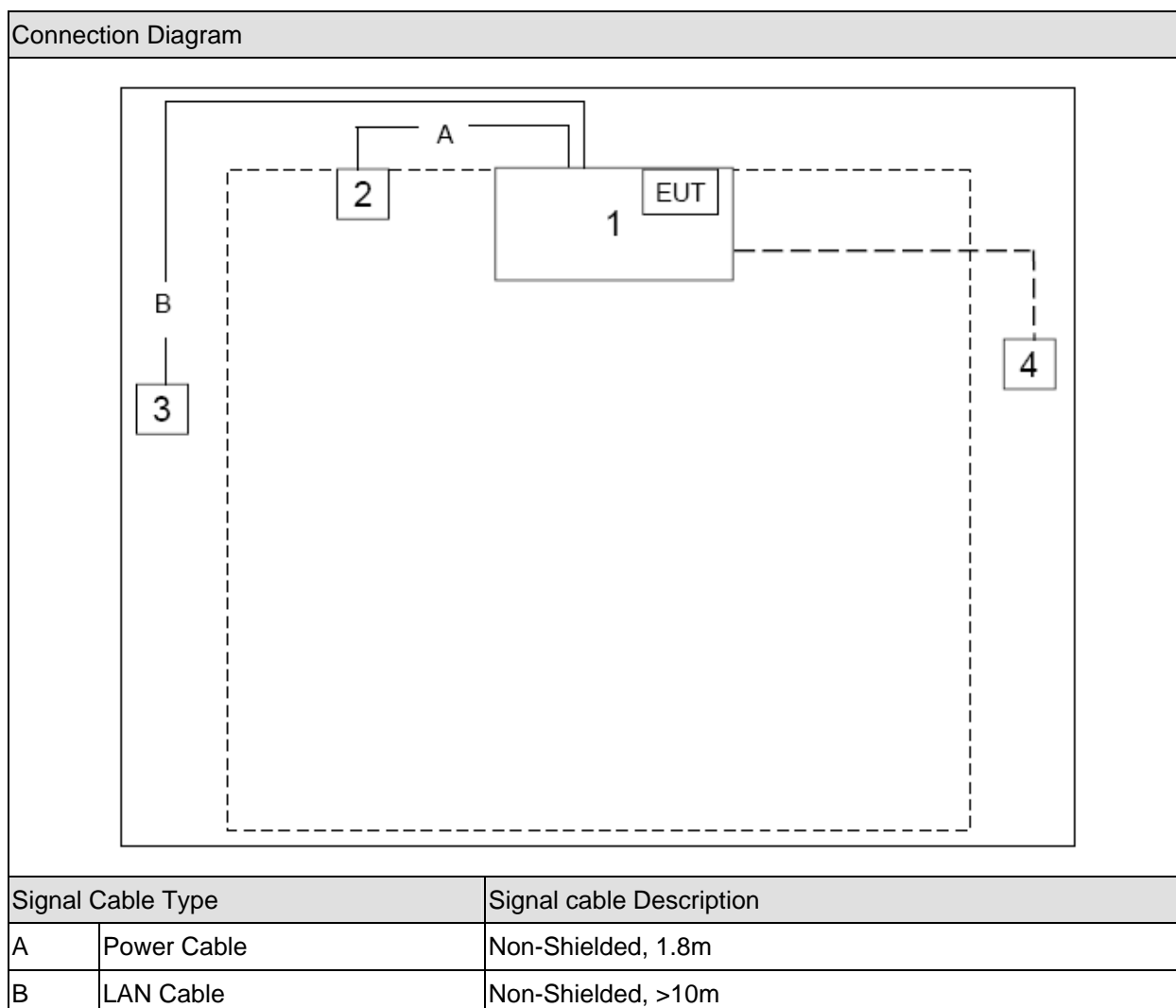
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Router Frame	Compex	B-543W	N/A	N/A
2	Adapter	DVE	DSA-15P-24	N/A	N/A
3	Notebook	DELL	PP19L	JH097 A01	Power by adapter
4	MacBook	Apple	MB061CH	W8732B4TZ5V	Power by adapter

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Execute test software “bricks”, provided by applicant, then select test mode and test channel, press OK to communication with another Notebook P.C. by wireless.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
- ☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 15.247(d)	N/A	N/A
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

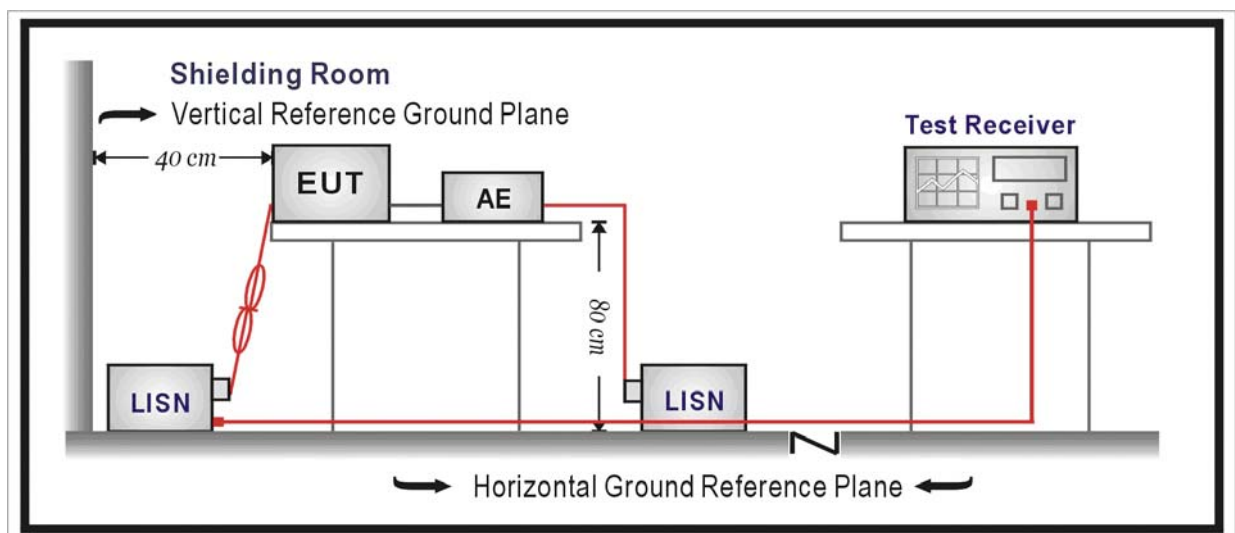
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2008/02/07
Two-Line V-Network	R&S	ENV216	100013	2008/11/15
Two-Line V-Network	R&S	ENV216	100014	2008/11/15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	200/11/24
50ohm Termination	SHX	TF2	07081401	2008/10/19
Coaxial Cable	Luthi	RG214	519358	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2008/03/31

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

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

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

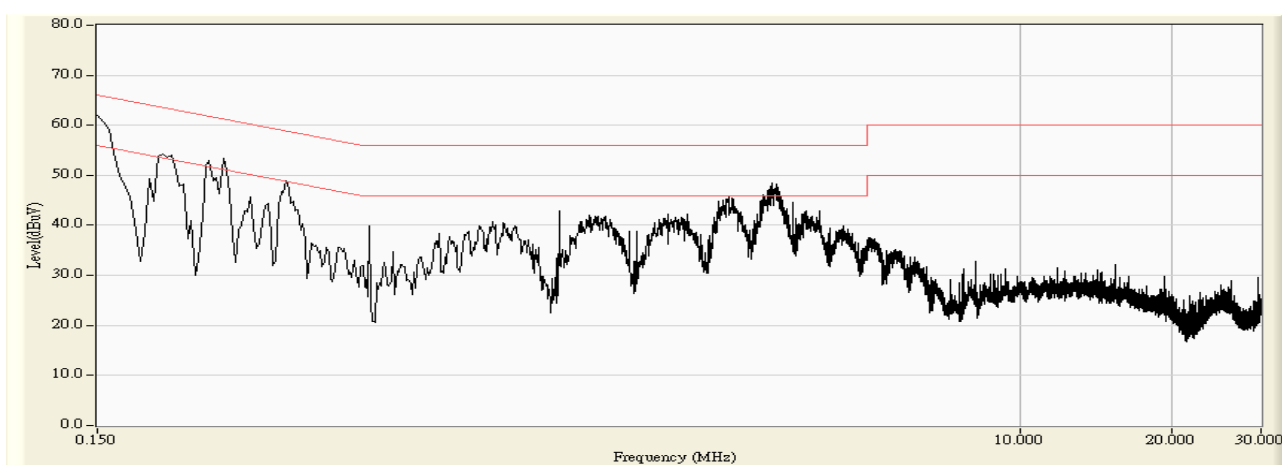
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

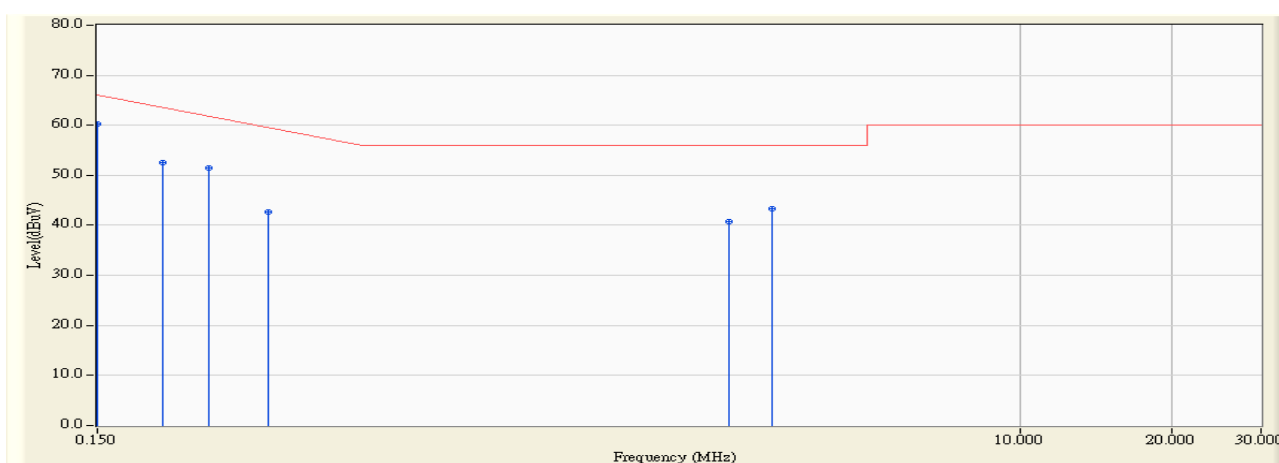
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:33
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz

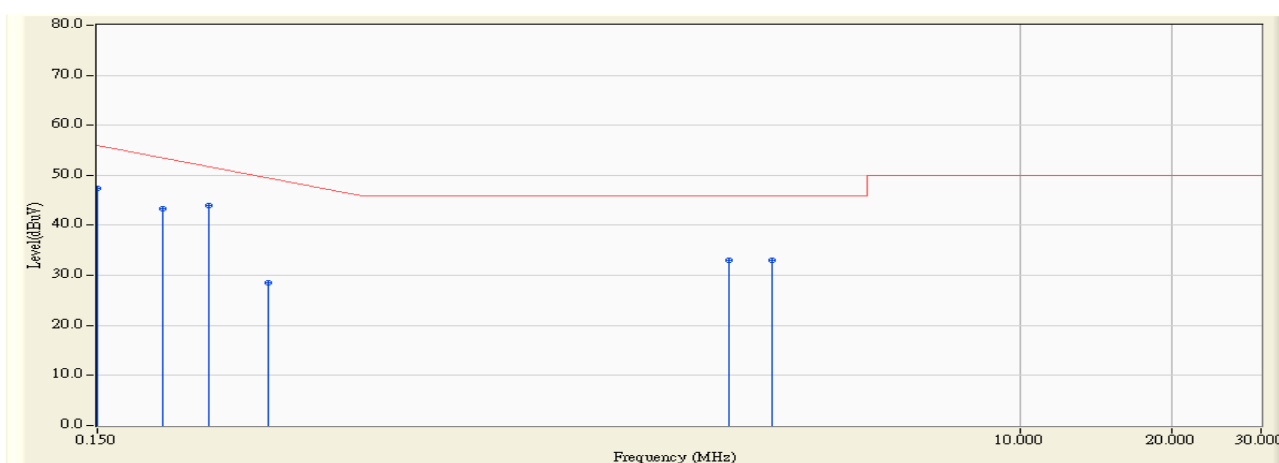


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:34
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz



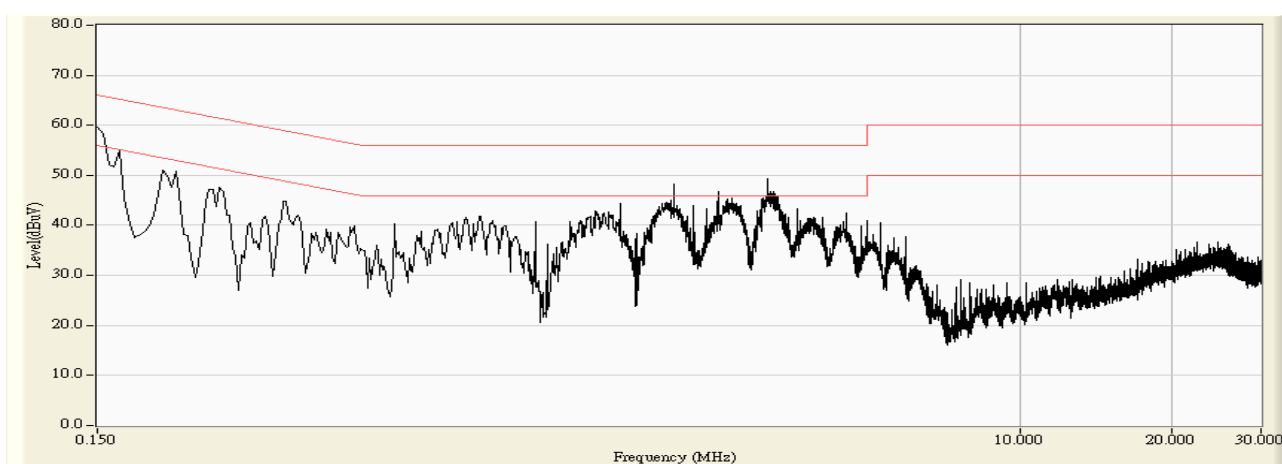
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.160	50.200	60.360	-5.640	66.000	QUASIPeAK
2		0.202	9.553	42.900	52.453	-12.061	64.514	QUASIPeAK
3		0.250	9.461	42.100	51.561	-11.582	63.143	QUASIPeAK
4		0.326	9.521	33.200	42.721	-18.250	60.971	QUASIPeAK
5		2.666	9.726	31.000	40.726	-15.274	56.000	QUASIPeAK
6		3.230	9.764	33.500	43.264	-12.736	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:34
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz

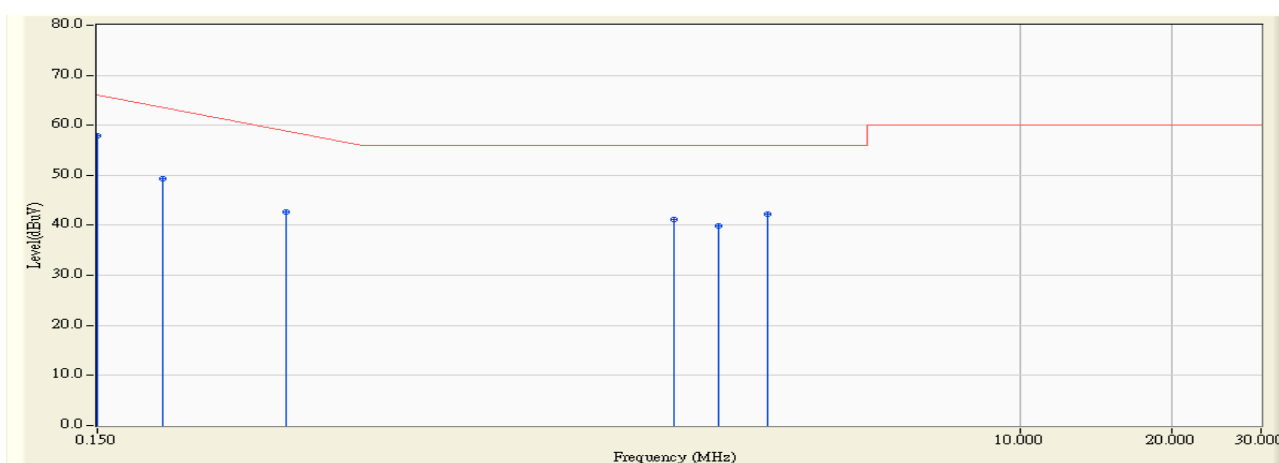


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.160	37.200	47.360	-8.640	56.000	AVERAGE
2		0.202	9.553	33.800	43.353	-11.161	54.514	AVERAGE
3		0.250	9.461	34.400	43.861	-9.282	53.143	AVERAGE
4		0.326	9.521	19.000	28.521	-22.450	50.971	AVERAGE
5		2.666	9.726	23.400	33.126	-12.874	46.000	AVERAGE
6		3.230	9.764	23.300	33.064	-12.936	46.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:28
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz

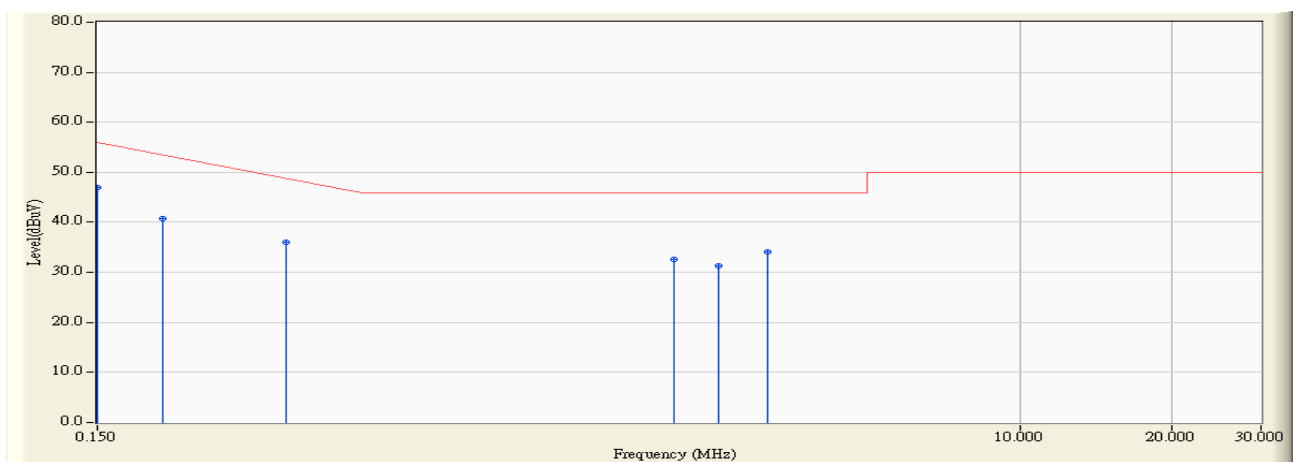


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:29
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	48.000	58.006	-7.994	66.000	QUASIPeAK
2		0.202	9.648	39.700	49.348	-15.166	64.514	QUASIPeAK
3		0.354	9.605	33.000	42.605	-17.566	60.171	QUASIPeAK
4		2.074	9.660	31.600	41.260	-14.740	56.000	QUASIPeAK
5		2.530	9.680	30.300	39.980	-16.020	56.000	QUASIPeAK
6		3.174	9.690	32.600	42.290	-13.710	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/11/10 - 16:29
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11a at channel 5745MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	36.900	46.906	-9.094	56.000	AVERAGE
2		0.202	9.648	31.100	40.748	-13.766	54.514	AVERAGE
3		0.354	9.605	26.500	36.105	-14.066	50.171	AVERAGE
4		2.074	9.660	22.900	32.560	-13.440	46.000	AVERAGE
5		2.530	9.680	21.600	31.280	-14.720	46.000	AVERAGE
6		3.174	9.690	24.500	34.190	-11.810	46.000	AVERAGE

3.7. Test Photograph

Test Mode: Transmit

Description: Front View of Conducted Emission Test Setup



Test Mode: Transmit

Description: Back View of Conducted Emission Test Setup



4. Radiated Emission

4.1. Test Equipment

☒ Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

☐ Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24

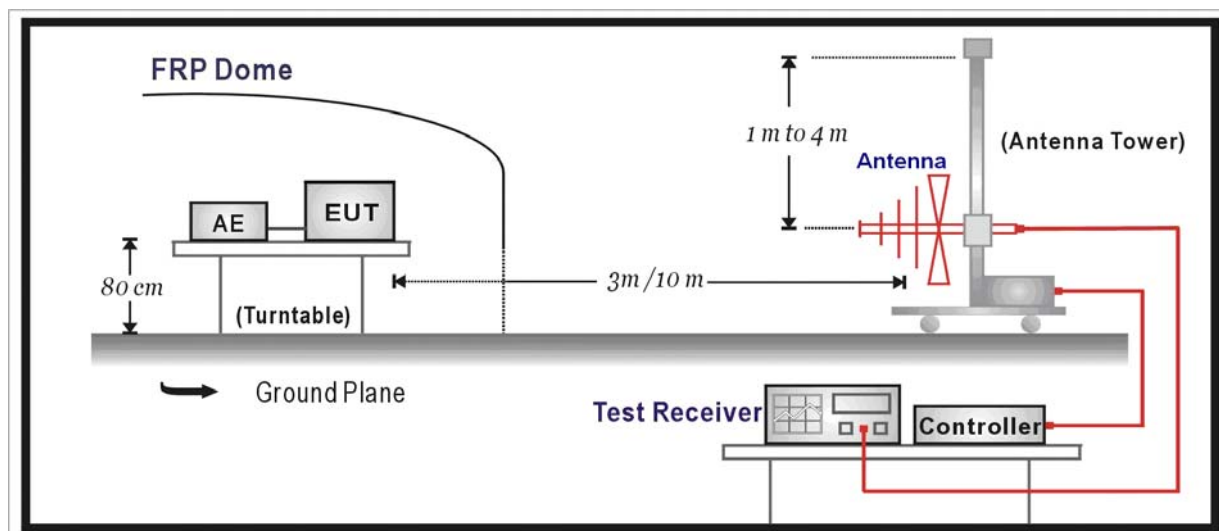
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

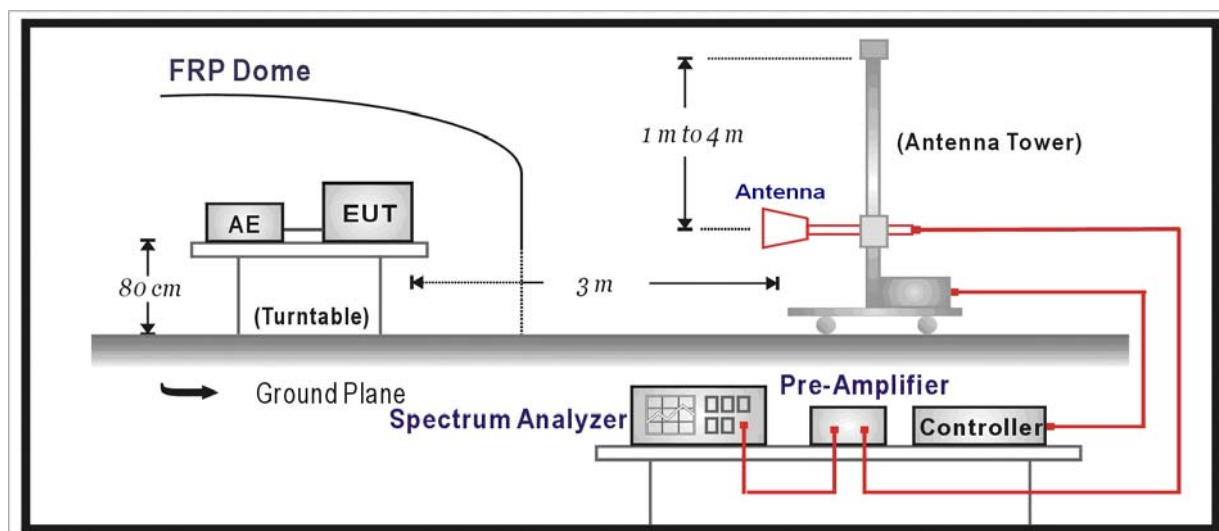
Note 2: The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

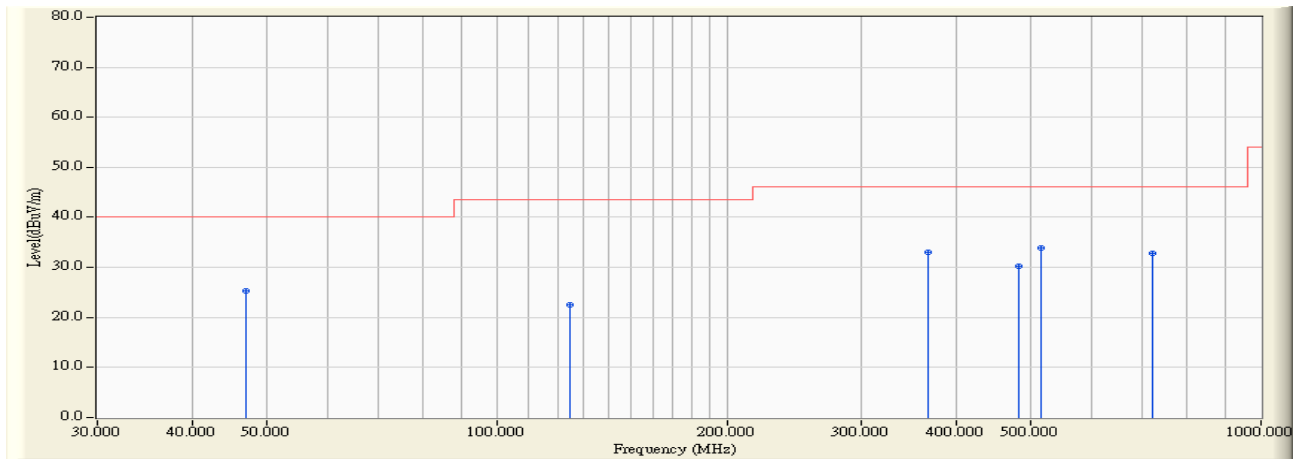
4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

below 1G is defined as ± 3.8 dB

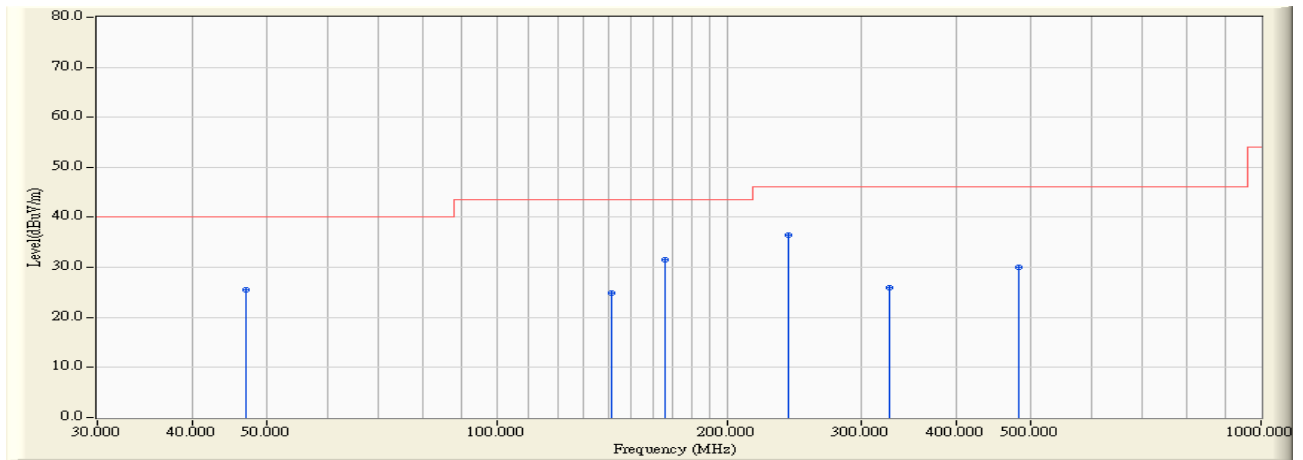
4.6. Test Result

Engineer : Jame	
Site : AC-2 (3m Semi-Aenchoic Chamber)	Time : 2008/11/15 - 14:41
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5745MHz by 802.11n(20MHz)



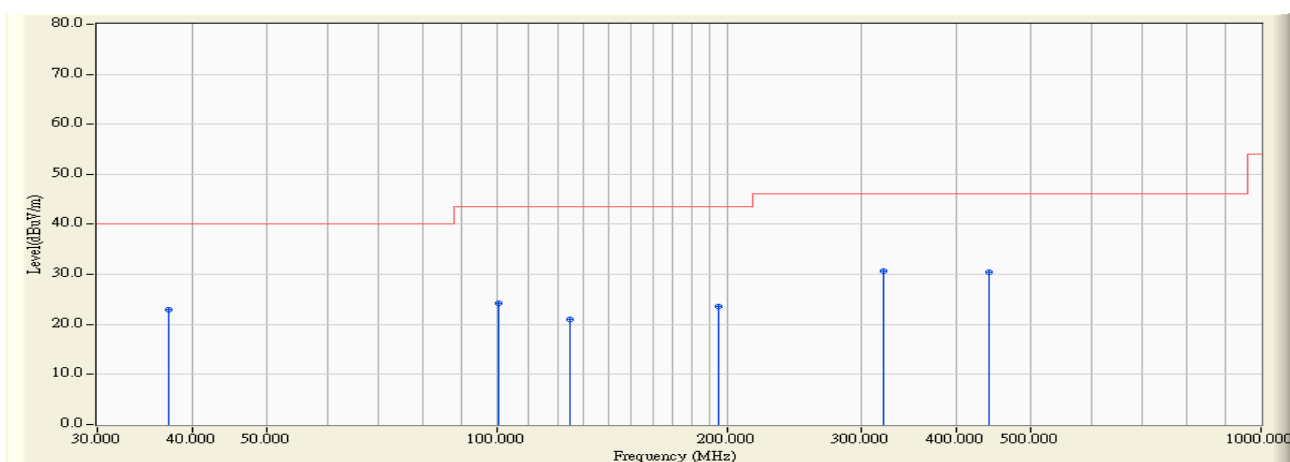
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		46.975	-13.503	38.863	25.360	-14.640	40.000	QUASIPeAK	100.000	205.800
2		124.575	-10.400	33.015	22.615	-20.905	43.520	QUASIPeAK	144.500	154.800
3		367.075	-6.333	39.262	32.929	-13.091	46.020	QUASIPeAK	100.000	108.500
4		481.050	-3.942	34.155	30.213	-15.807	46.020	QUASIPeAK	172.500	208.500
5	*	515.000	-3.396	37.264	33.868	-12.152	46.020	QUASIPeAK	100.000	93.800
6		721.125	-0.859	33.684	32.825	-13.195	46.020	QUASIPeAK	112.600	183.500

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:42
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5745MHz by 802.11n(20MHz)



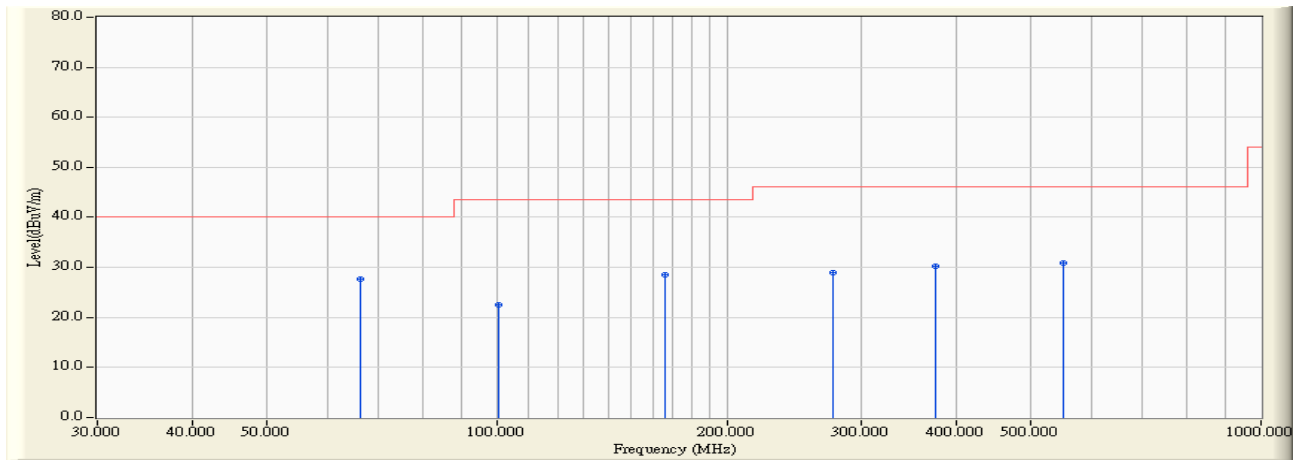
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		46.975	-13.503	38.920	25.417	-14.583	40.000	QUASIPeAK	100.000	206.000
2		141.550	-11.304	36.195	24.891	-18.629	43.520	QUASIPeAK	100.000	142.500
3		165.800	-12.695	44.189	31.494	-12.026	43.520	QUASIPeAK	100.000	75.300
4	*	240.975	-10.565	47.107	36.542	-9.478	46.020	QUASIPeAK	104.600	136.900
5		325.850	-7.665	33.592	25.927	-20.093	46.020	QUASIPeAK	114.600	204.800
6		481.050	-3.942	33.946	30.004	-16.016	46.020	QUASIPeAK	100.000	193.800

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:42
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5785MHz by 802.11n(20MHz)



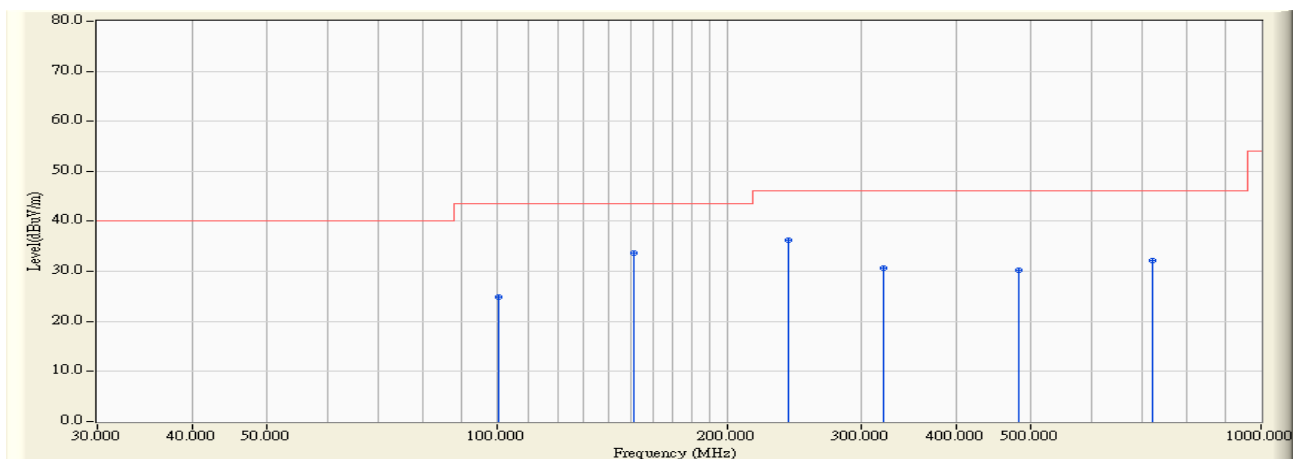
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		37.275	-8.688	31.611	22.923	-17.077	40.000	QUASIPeAK	100.000	68.900
2		100.325	-11.534	35.700	24.166	-19.354	43.520	QUASIPeAK	142.000	84.500
3		124.575	-10.400	31.423	21.023	-22.497	43.520	QUASIPeAK	112.000	177.500
4		194.900	-13.415	36.901	23.486	-20.034	43.520	QUASIPeAK	100.000	154.600
5	*	321.000	-7.731	38.418	30.687	-15.333	46.020	QUASIPeAK	100.000	148.500
6		439.825	-4.890	35.262	30.372	-15.648	46.020	QUASIPeAK	100.000	136.600

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:43
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5785MHz by 802.11n(20MHz)



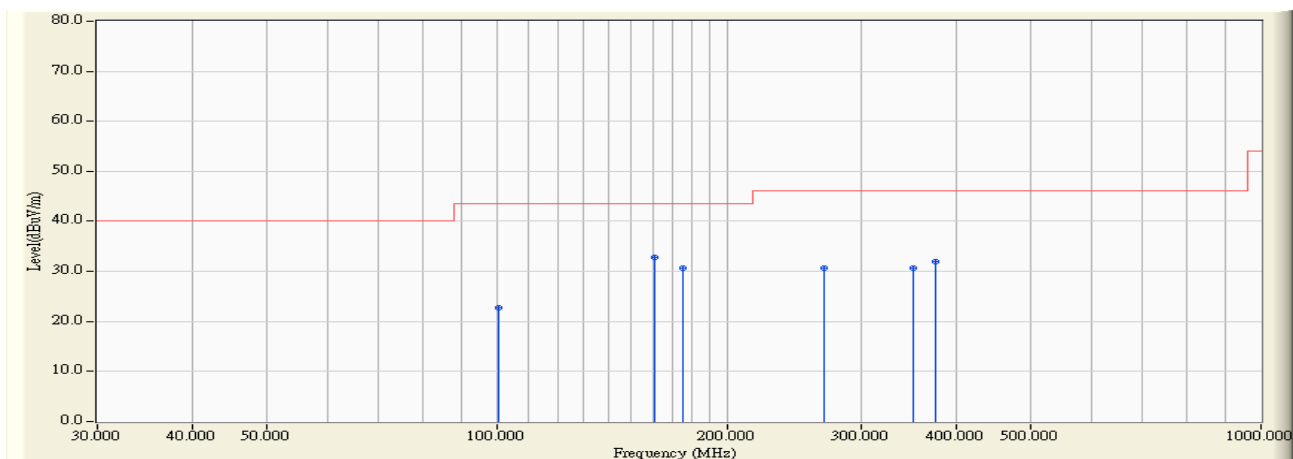
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	66.375	-17.310	45.051	27.742	-12.258	40.000	QUASIPeAK	100.000	74.600
2		100.325	-11.534	34.072	22.538	-20.982	43.520	QUASIPeAK	100.000	116.500
3		165.800	-12.695	41.161	28.466	-15.054	43.520	QUASIPeAK	106.500	44.800
4		274.925	-9.090	38.130	29.040	-16.980	46.020	QUASIPeAK	113.600	210.400
5		374.350	-6.238	36.556	30.318	-15.702	46.020	QUASIPeAK	102.600	95.000
6		551.375	-2.252	33.186	30.934	-15.086	46.020	QUASIPeAK	100.000	135.200

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:43
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5825MHz by 802.11n(20MHz)



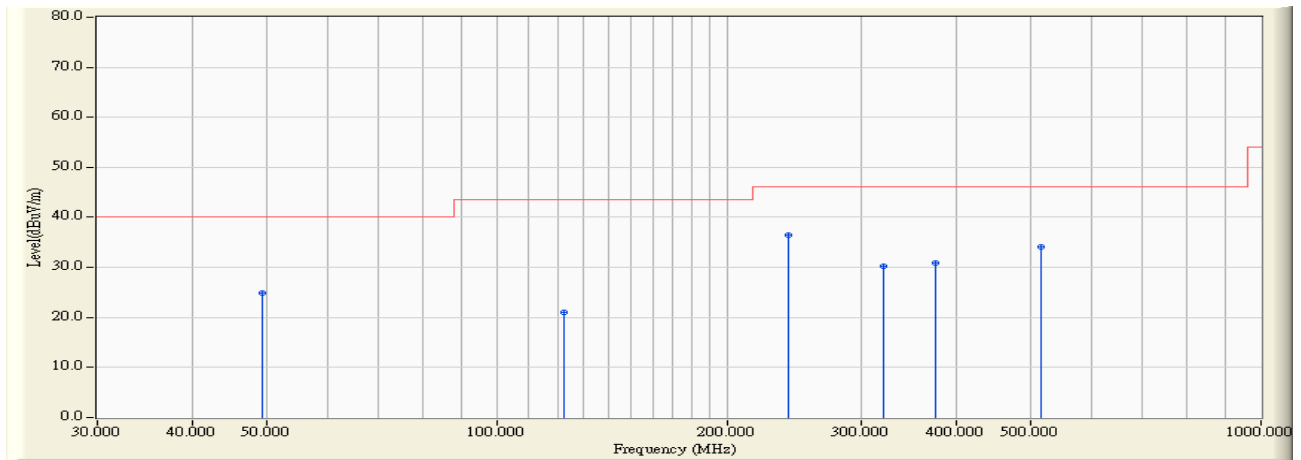
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		100.325	-11.534	36.351	24.817	-18.703	43.520	QUASIPeAK	100.000	215.000
2		151.250	-12.122	45.723	33.601	-9.919	43.520	QUASIPeAK	128.000	88.500
3	*	240.975	-10.565	46.833	36.268	-9.752	46.020	QUASIPeAK	100.000	274.000
4		321.000	-7.731	38.357	30.626	-15.394	46.020	QUASIPeAK	145.500	209.000
5		481.050	-3.942	34.104	30.162	-15.858	46.020	QUASIPeAK	177.500	93.800
6		721.125	-0.859	33.021	32.162	-13.858	46.020	QUASIPeAK	100.000	174.000

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:45
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 5825MHz by 802.11n(20MHz)



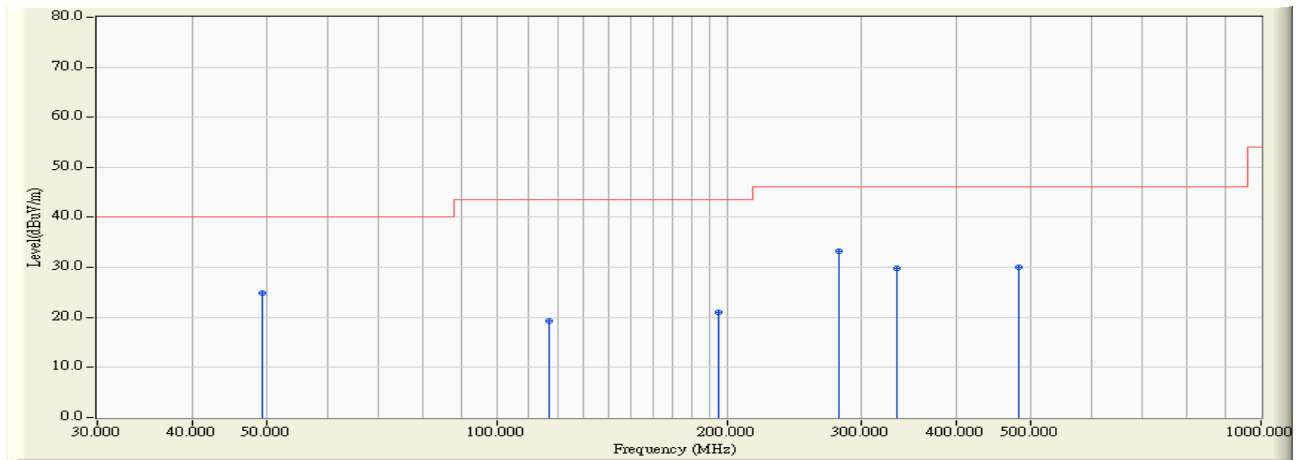
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		100.325	-11.534	34.362	22.828	-20.692	43.520	QUASIPeAK	100.000	248.000
2	*	160.950	-12.524	45.322	32.799	-10.721	43.520	QUASIPeAK	100.000	211.700
3		175.500	-13.364	43.971	30.607	-12.913	43.520	QUASIPeAK	105.600	225.000
4		267.650	-8.922	39.510	30.588	-15.432	46.020	QUASIPeAK	100.000	247.700
5		350.100	-6.856	37.505	30.649	-15.371	46.020	QUASIPeAK	125.500	48.600
6		374.350	-6.238	38.157	31.919	-14.101	46.020	QUASIPeAK	100.000	287.500

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 -14:45
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit at channel 5755MHz by 802.11n(40MHz)



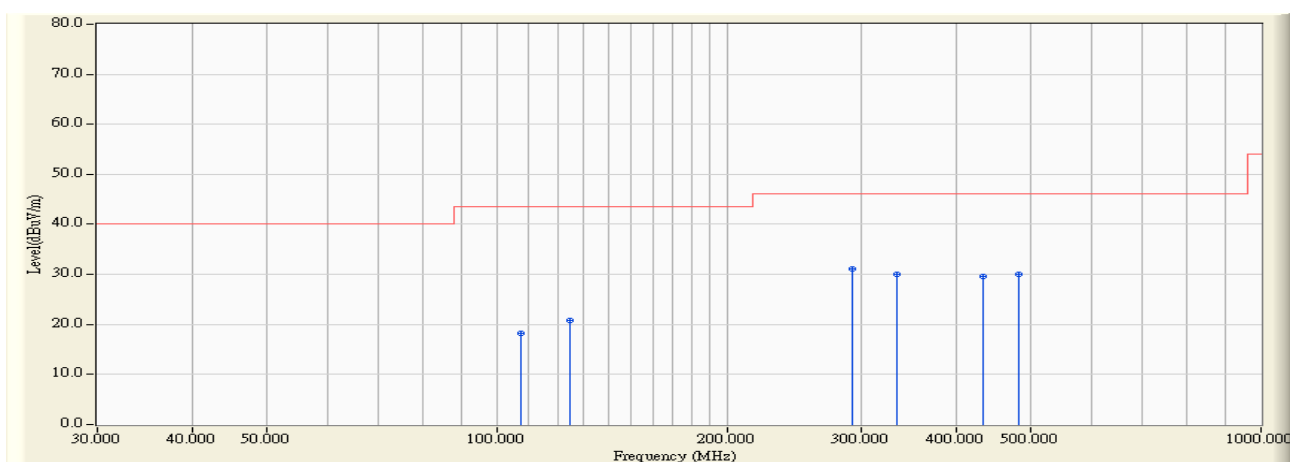
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		49.400	-14.558	39.365	24.807	-15.193	40.000	QUASIPeAK	100.000	68.900
2		122.150	-10.429	31.415	20.986	-22.534	43.520	QUASIPeAK	142.000	84.500
3	*	240.975	-10.565	46.961	36.396	-9.624	46.020	QUASIPeAK	112.000	177.500
4		321.000	-7.731	37.867	30.136	-15.884	46.020	QUASIPeAK	100.000	154.600
5		374.350	-6.238	37.049	30.811	-15.209	46.020	QUASIPeAK	100.000	148.500
6		515.000	-3.396	37.409	34.013	-12.007	46.020	QUASIPeAK	100.000	136.600

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 -14:46
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit at channel 5755MHz by 802.11n(40MHz)



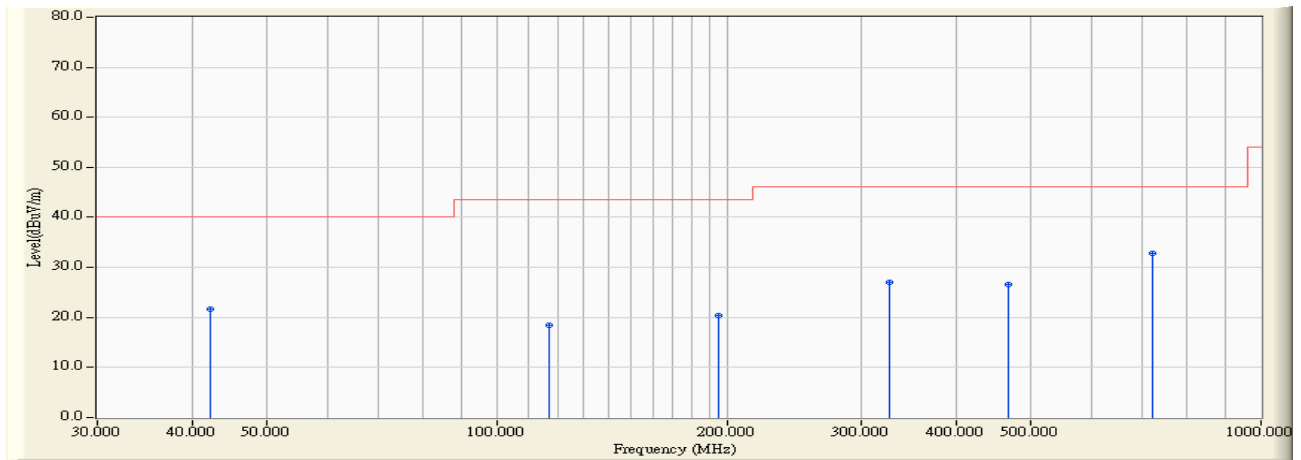
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		49.400	-14.558	39.386	24.828	-15.172	40.000	QUASIPeAK	100.000	74.600
2		117.300	-10.565	29.839	19.274	-24.246	43.520	QUASIPeAK	100.000	116.500
3		194.900	-13.415	34.423	21.008	-22.512	43.520	QUASIPeAK	106.500	44.800
4	*	279.775	-9.019	42.237	33.218	-12.802	46.020	QUASIPeAK	113.600	210.400
5		333.125	-7.524	37.441	29.917	-16.103	46.020	QUASIPeAK	102.600	95.000
6		481.050	-3.942	34.021	30.079	-15.941	46.020	QUASIPeAK	100.000	135.200

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:46
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit at channel 5795MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		107.600	-10.881	29.163	18.282	-25.238	43.520	QUASIPeAK	100.000	95.800
2		124.575	-10.400	31.306	20.906	-22.614	43.520	QUASIPeAK	122.500	174.500
3	*	291.900	-8.605	39.783	31.178	-14.842	46.020	QUASIPeAK	105.200	96.500
4		333.125	-7.524	37.624	30.100	-15.920	46.020	QUASIPeAK	100.000	65.800
5		432.550	-4.817	34.434	29.617	-16.403	46.020	QUASIPeAK	100.000	214.000
6		481.050	-3.942	34.068	30.126	-15.894	46.020	QUASIPeAK	206.000	155.800

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/11/15 - 14:47
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3: Transmit at channel 5795MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		42.125	-11.266	32.894	21.628	-18.372	40.000	QUASIPeAK	100.000	88.900
2		117.300	-10.565	29.071	18.506	-25.014	43.520	QUASIPeAK	100.000	226.000
3		194.900	-13.415	33.820	20.405	-23.115	43.520	QUASIPeAK	112.600	65.900
4		325.850	-7.665	34.591	26.926	-19.094	46.020	QUASIPeAK	106.000	147.500
5		466.500	-4.426	31.030	26.604	-19.416	46.020	QUASIPeAK	100.000	145.300
6	*	721.125	-0.859	33.684	32.825	-13.195	46.020	QUASIPeAK	100.000	36.500

Mode 1: Transmit by 802.11a (Chain 1X 010)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 149 (5745MHz)							
11483.33	H	59.66	74	-14.34	PK	120.50	65.80
11483.33	H	45.44	54	-8.560	AV	120.50	65.80
11483.33	V	61.01	74	-12.99	PK	114.20	144.80
11483.33	V	46.83	54	-7.170	AV	114.20	144.80
Channel 157 (5785MHz)							
11568.33	H	61.11	74	-12.89	PK	100.00	165.20
1498.000	H	46.89	54	-7.110	AV	100.00	165.20
11568.33	V	63.64	74	-10.36	PK	100.00	205.00
1498.000	V	49.46	54	-4.540	AV	100.00	205.00
Channel 165 (5825MHz)							
11653.33	H	63.22	74	-10.78	PK	100.00	187.00
1498.000	H	49.00	54	-5.000	AV	100.00	187.00
11653.33	V	62.47	74	-11.53	PK	106.00	328.00
1498.000	V	48.29	54	-5.710	AV	106.00	328.00

Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 010)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 149 (5745MHz)							
11483.33	H	61.00	74	-13.00	PK	100.00	187.00
1498.000	H	46.78	54	-7.220	AV	100.00	187.00
11483.33	V	62.98	74	-11.02	PK	106.00	328.00
1498.000	V	48.80	54	-5.200	AV	106.00	328.00
Channel 157 (5785MHz)							
11568.33	H	61.09	74	-12.91	PK	100.00	187.00
1498.000	H	46.87	54	-7.130	AV	100.00	187.00
11568.33	V	63.24	74	-10.76	PK	106.00	328.00
1498.000	V	49.06	54	-4.940	AV	106.00	328.00
Channel 165 (5825MHz)							
11653.33	H	61.45	74	-12.55	PK	100.00	187.00
1498.000	H	47.23	54	-6.770	AV	100.00	187.00
11653.33	V	63.72	74	-10.28	PK	106.00	328.00
1498.000	V	49.54	54	-4.460	AV	106.00	328.00

Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 010)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 151 (5755MHz)							
11511.66	H	60.12	74	-13.88	PK	100.00	187.00
1498.000	H	45.90	54	-8.100	AV	100.00	187.00
11483.33	V	61.92	74	-12.08	PK	106.00	328.00
1498.000	V	47.74	54	-6.260	AV	106.00	328.00
Channel 159 (5795MHz)							
11596.66	H	58.75	74	-15.25	PK	100.00	187.00
1498.000	H	44.53	54	-9.470	AV	100.00	187.00
11596.66	V	60.24	74	-13.76	PK	106.00	328.00
1498.000	V	46.06	54	-7.940	AV	106.00	328.00

Mode 1: Transmit by 802.11a (Chain 1X 100)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 149 (5745MHz)							
11483.33	H	58.64	74	-15.36	PK	120.50	65.80
11483.33	H	44.42	54	-9.580	AV	120.50	65.80
11483.33	V	59.99	74	-14.01	PK	114.20	144.80
11483.33	V	45.81	54	-8.190	AV	114.20	144.80
Channel 157 (5785MHz)							
11568.33	H	60.09	74	-13.91	PK	100.00	165.20
1498.000	H	45.87	54	-8.130	AV	100.00	165.20
11568.33	V	62.62	74	-11.38	PK	100.00	205.00
1498.000	V	48.44	54	-5.560	AV	100.00	205.00
Channel 165 (5825MHz)							
11653.33	H	62.20	74	-11.80	PK	100.00	187.00
1498.000	H	47.98	54	-6.020	AV	100.00	187.00
11653.33	V	61.45	74	-12.55	PK	106.00	328.00
1498.000	V	47.27	54	-6.730	AV	106.00	328.00

Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 100)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 149 (5745MHz)							
11483.33	H	59.98	74	-14.02	PK	100.00	187.00
1498.000	H	45.76	54	-8.240	AV	100.00	187.00
11483.33	V	61.96	74	-12.04	PK	106.00	328.00
1498.000	V	47.78	54	-6.220	AV	106.00	328.00
Channel 157 (5785MHz)							
11568.33	H	60.07	74	-13.93	PK	100.00	187.00
1498.000	H	45.85	54	-8.150	AV	100.00	187.00
11568.33	V	62.22	74	-11.78	PK	106.00	328.00
1498.000	V	48.04	54	-5.960	AV	106.00	328.00
Channel 165 (5825MHz)							
11653.33	H	60.43	74	-13.57	PK	100.00	187.00
1498.000	H	46.21	54	-7.790	AV	100.00	187.00
11653.33	V	62.70	74	-11.30	PK	106.00	328.00
1498.000	V	48.52	54	-5.480	AV	106.00	328.00

Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 100)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 151 (5755MHz)							
1498.000	H	59.10	74	-14.90	PK	100.00	187.00
1498.000	H	44.88	54	-9.120	AV	100.00	187.00
1498.000	V	60.90	74	-13.10	PK	106.00	328.00
1498.000	V	46.72	54	-7.280	AV	106.00	328.00
Channel 159 (5795MHz)							
1498.000	H	57.73	74	-16.27	PK	100.00	187.00
1498.000	H	43.51	54	-10.49	AV	100.00	187.00
1498.000	V	59.22	74	-14.78	PK	106.00	328.00
1498.000	V	45.04	54	-8.960	AV	106.00	328.00

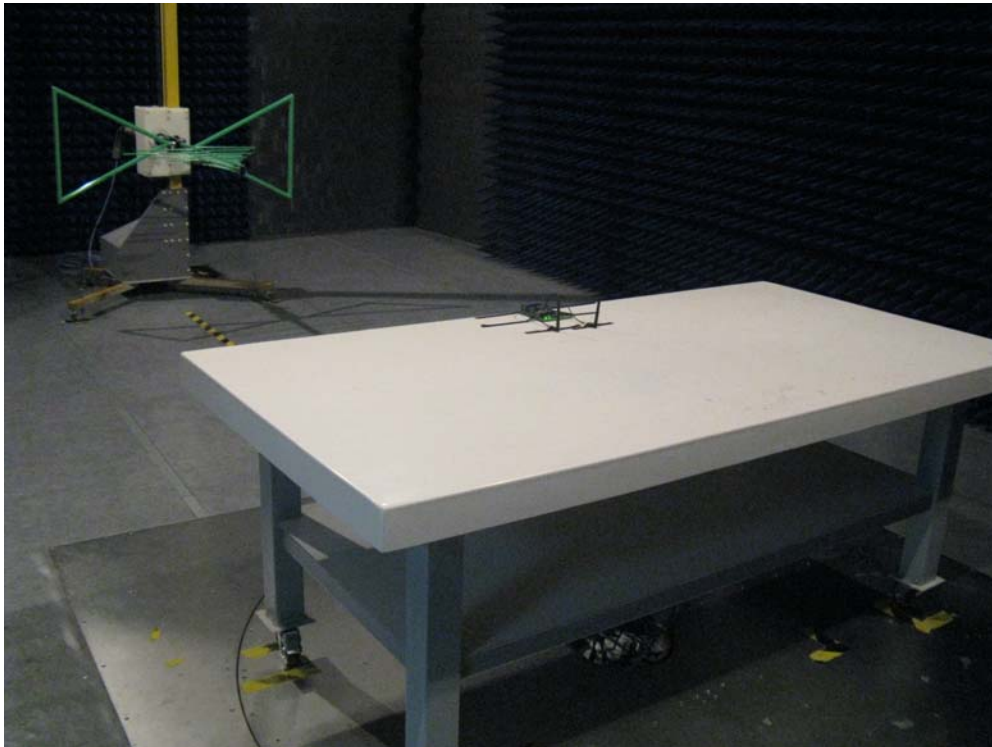
Mode 2: Transmit by 802.11n (20MHz) (Chain 2X 110)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 149 (5745MHz)							
11511.66	H	61.19	74	-12.81	PK	100.00	187.00
1498.000	H	46.97	54	-7.030	AV	100.00	187.00
11511.66	V	63.74	74	-10.26	PK	106.00	328.00
1498.000	V	49.56	54	-4.440	AV	106.00	328.00
Channel 157 (5785MHz)							
11596.66	H	63.66	74	-10.34	PK	100.00	187.00
1498.000	H	49.44	54	-4.560	AV	100.00	187.00
11596.66	V	61.38	74	-12.62	PK	106.00	328.00
1498.000	V	47.20	54	-6.800	AV	106.00	328.00
Channel 165 (5825MHz)							
11653.33	H	60.09	74	-13.91	PK	100.00	187.00
1498.000	H	45.87	54	-8.130	AV	100.00	187.00
11681.66	V	62.72	74	-11.28	PK	106.00	328.00
1498.000	V	48.54	54	-5.460	AV	106.00	328.00

Mode 3: Transmit by 802.11n (40MHz) (Chain 2X 110)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 151 (5755MHz)							
11511.66	H	62.32	74	-11.64	PK	100.00	187.00
1498.000	H	34.39	54	-19.61	AV	100.00	187.00
11511.66	V	65.64	74	-8.327	PK	106.00	328.00
1498.000	V	36.58	54	-17.42	AV	106.00	328.00
Channel 159 (5795MHz)							
11596.66	H	61.22	74	-12.74	PK	100.00	187.00
1498.000	H	36.39	54	-17.61	AV	100.00	187.00
11596.66	V	65.88	74	-8.089	PK	106.00	328.00
1498.000	V	37.58	54	-16.42	AV	106.00	328.00

4.7. Test Photograph

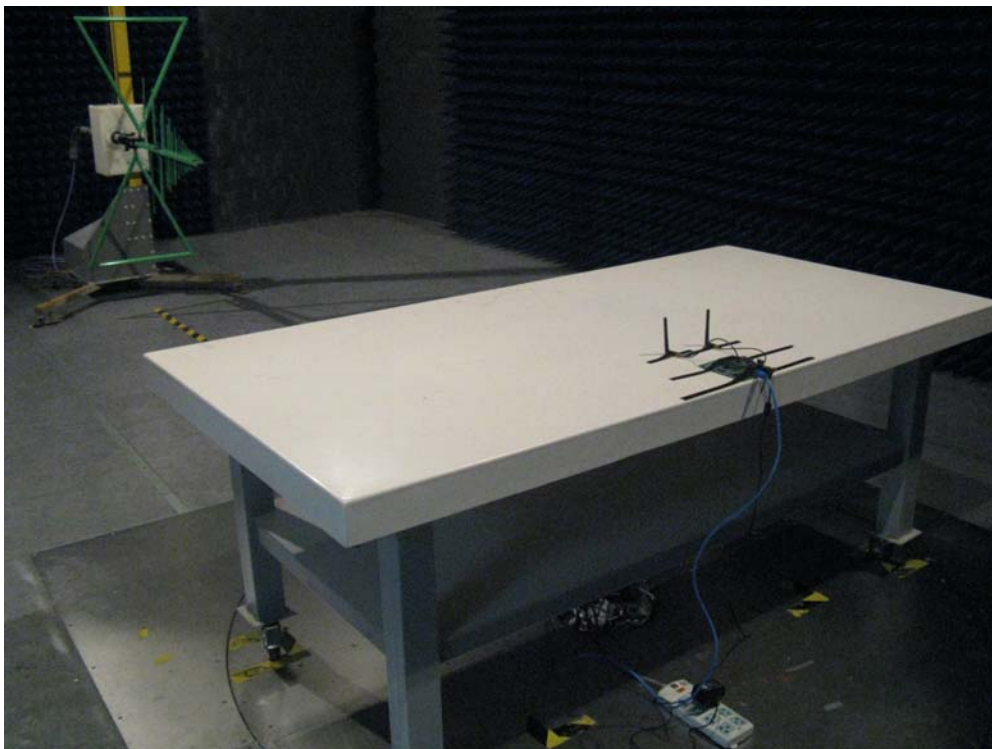
Test Mode: Transmit

Description: Front View of Radiated Emission Test Setup for Under 1GHz



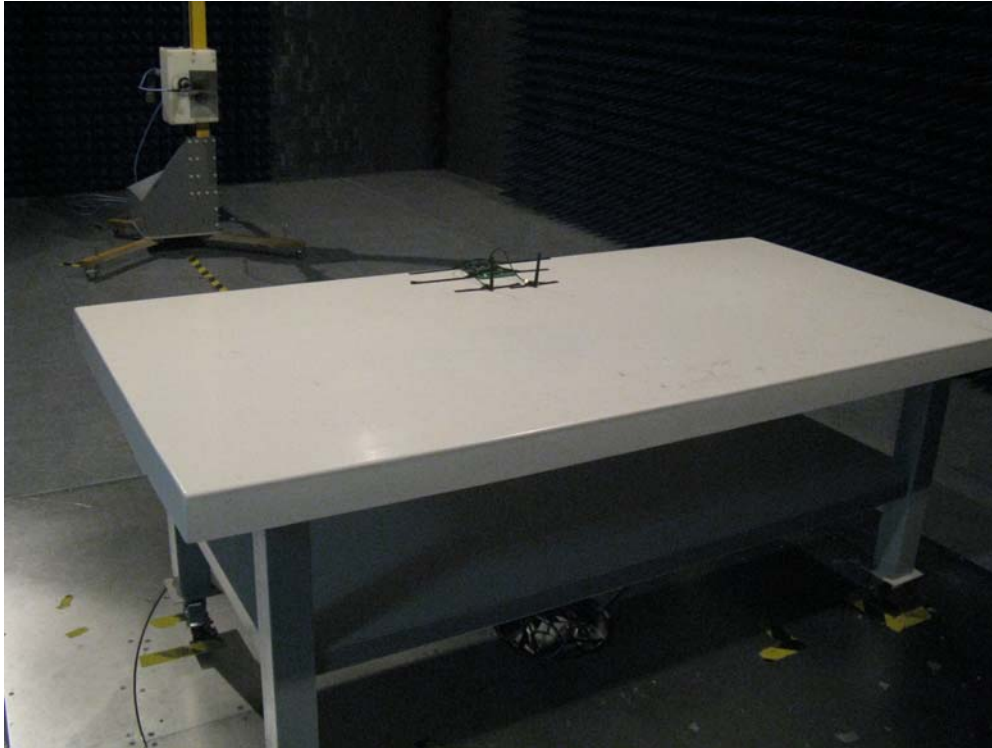
Test Mode: Transmit

Description: Back View of Radiated Emission Test Setup for Under 1GHz



Test Mode: Transmit

Description: Front View of Radiated Emission Test Setup for Above 1GHz



Test Mode: Transmit

Description: Back View of Radiated Emission Test Setup for Above 1GHz



5. RF Antenna Conducted Spurious

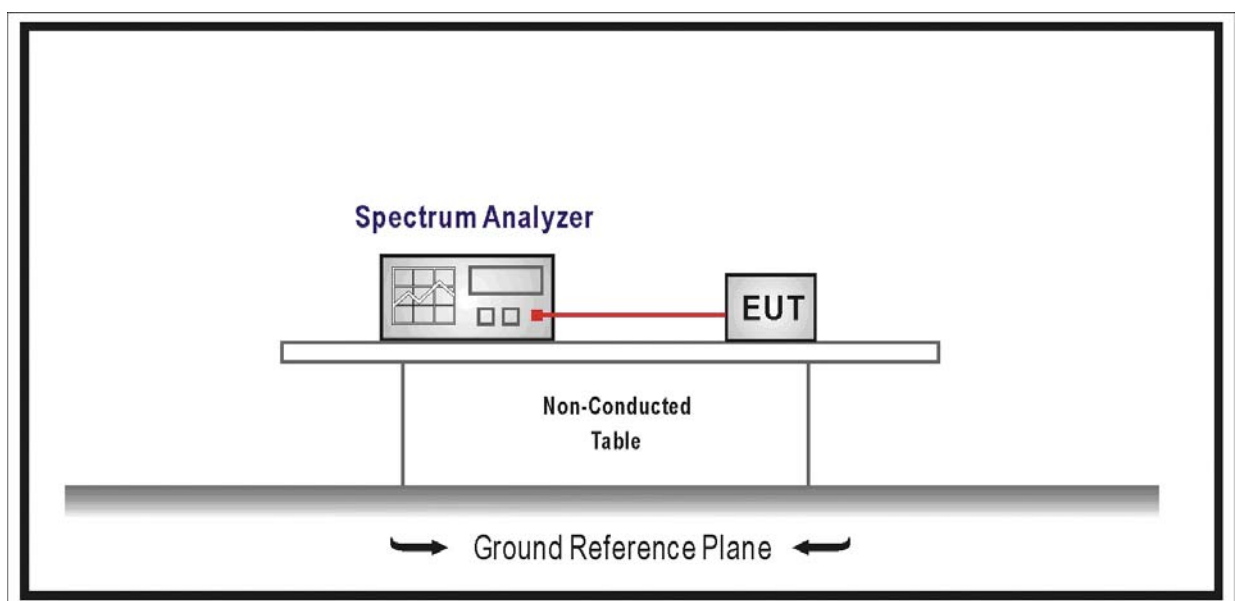
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

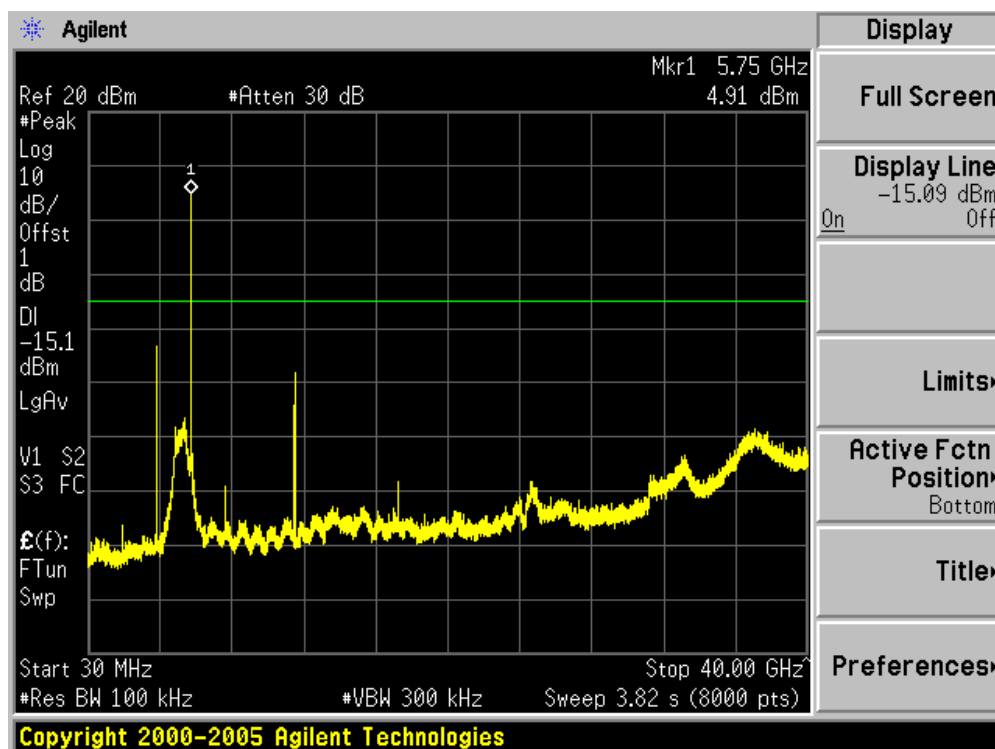
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

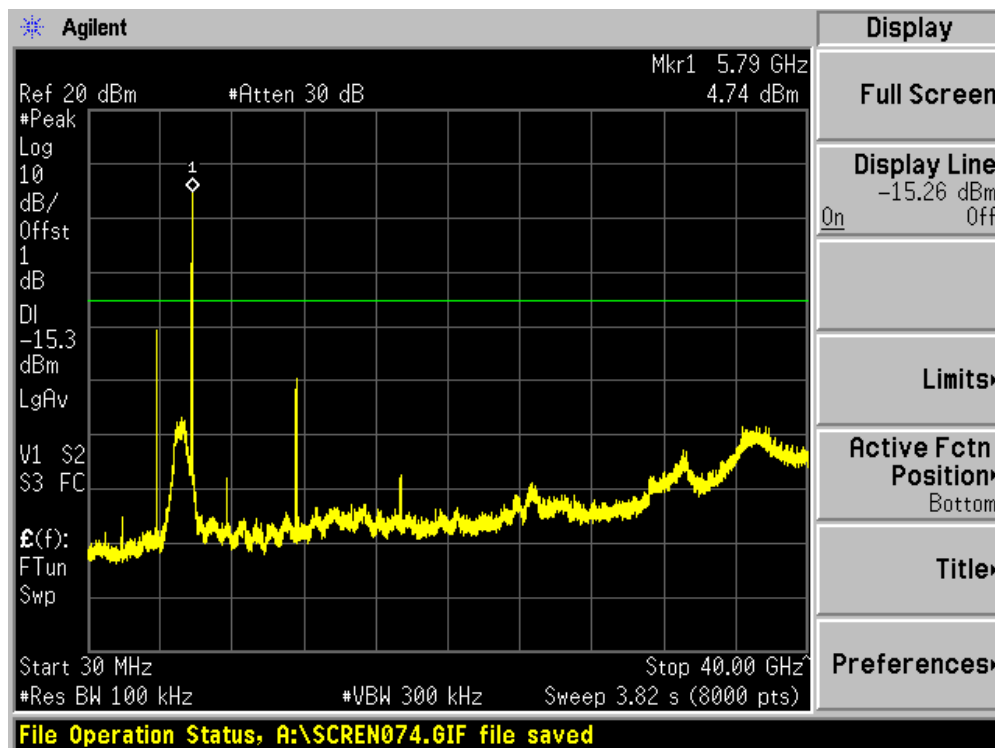
5.6. Test Result

Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 010)

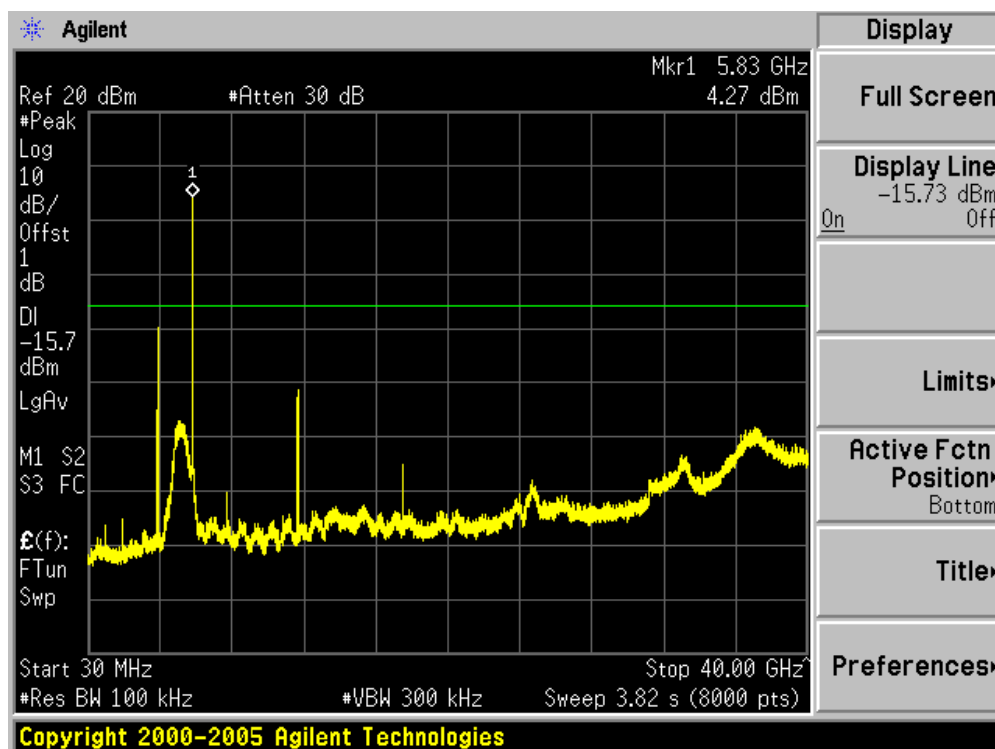
Channel 149 (5745MHz)



Channel 157 (5785MHz)

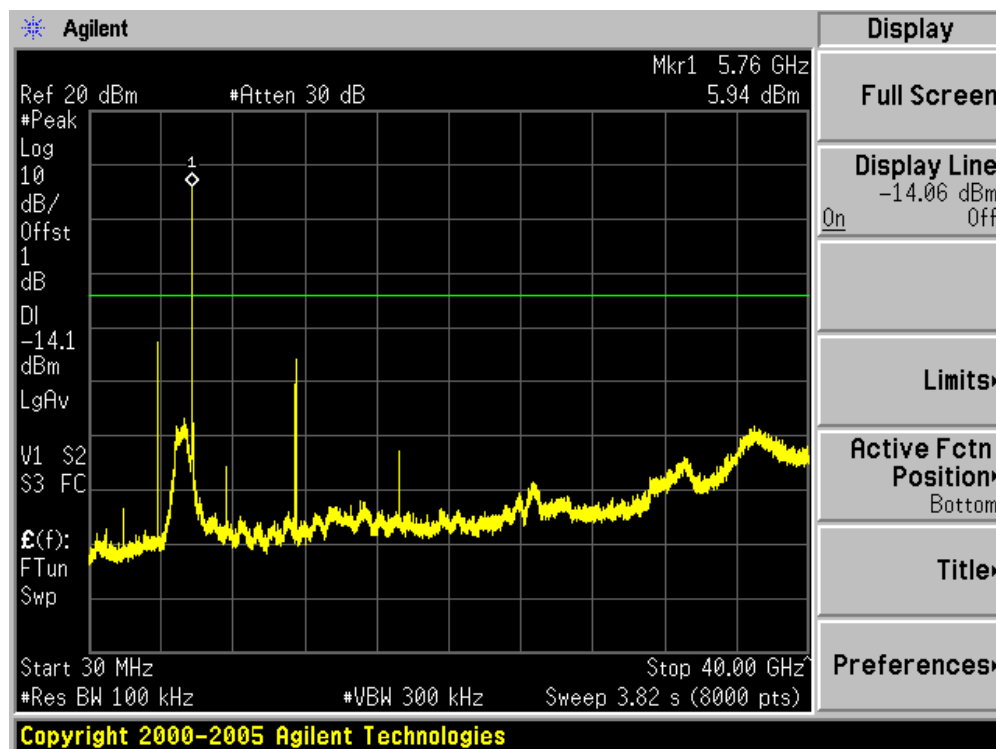


Channel 165 (5825MHz)

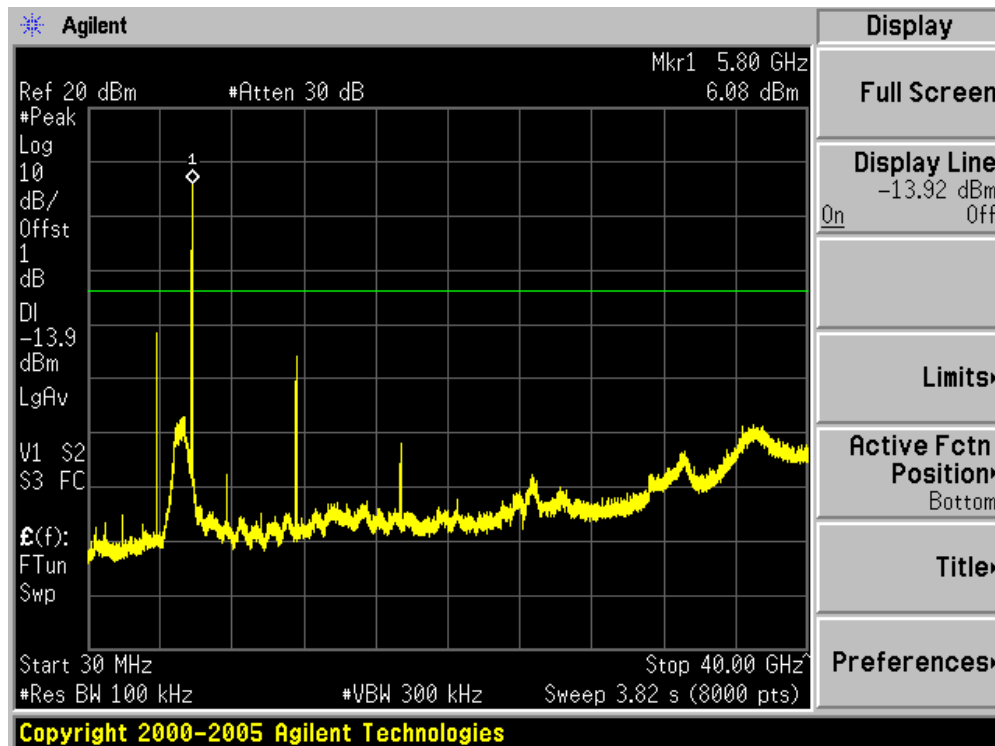


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 010)

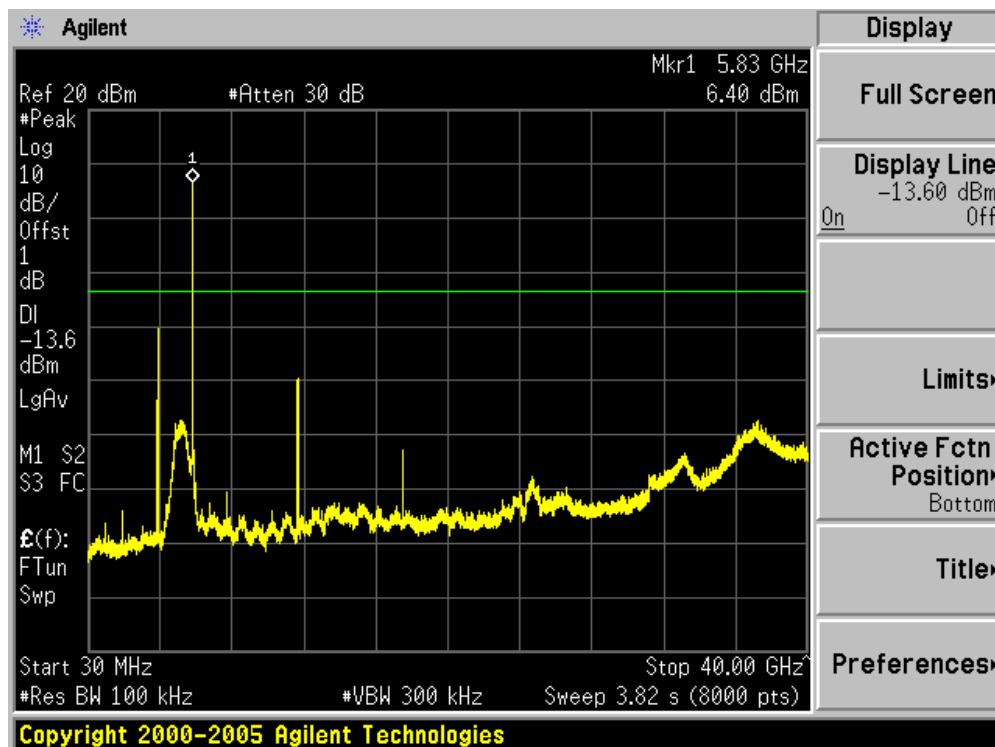
Channel 149 (5745MHz)



Channel 157 (5785MHz)

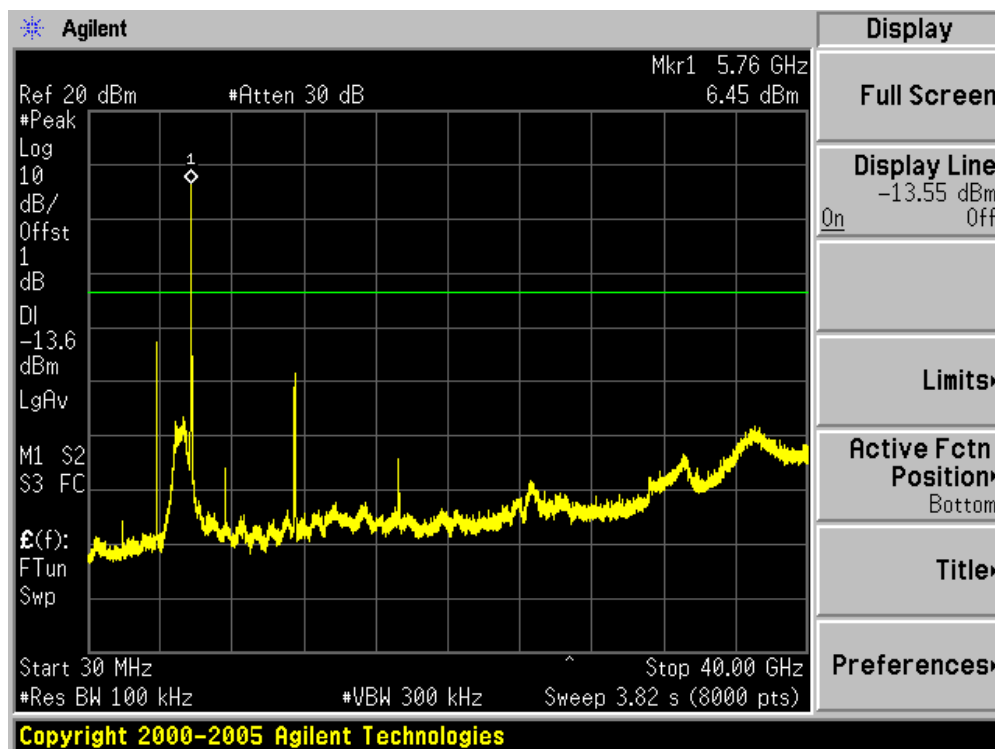


Channel 165 (5825MHz)

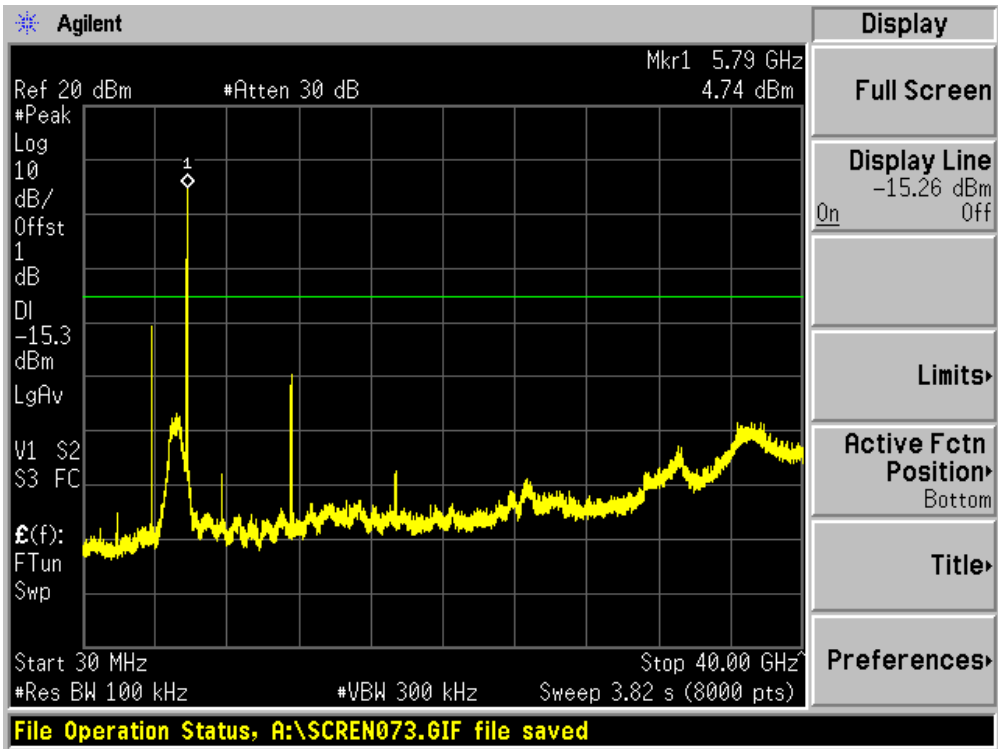


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 010)

Channel 151 (5755MHz)

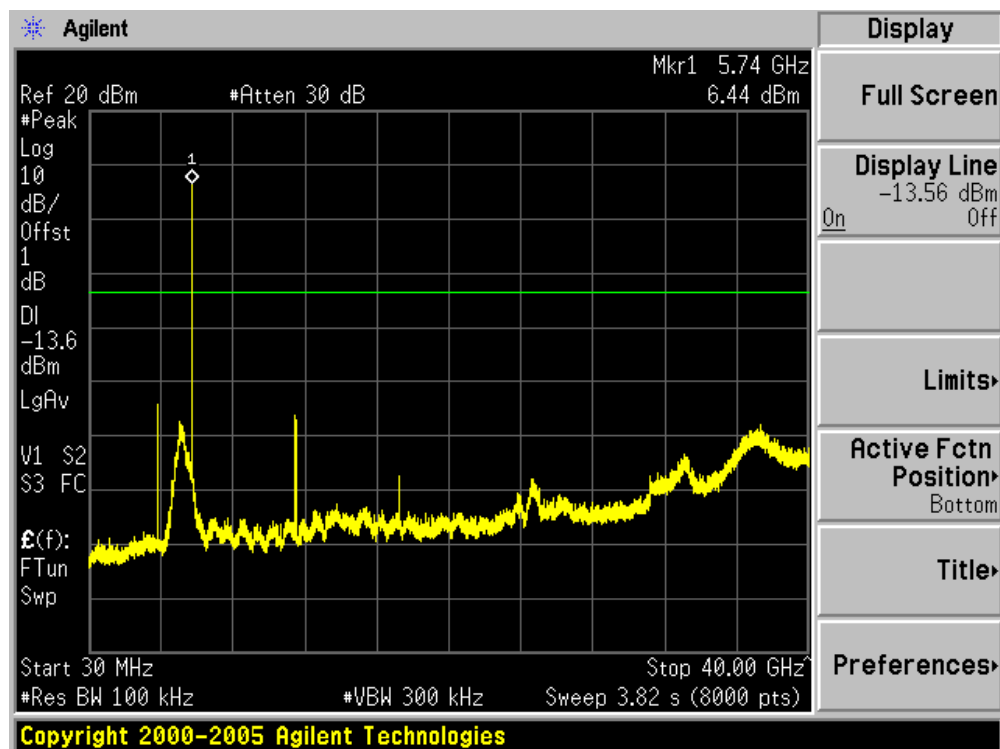


Channel 159 (5795MHz)

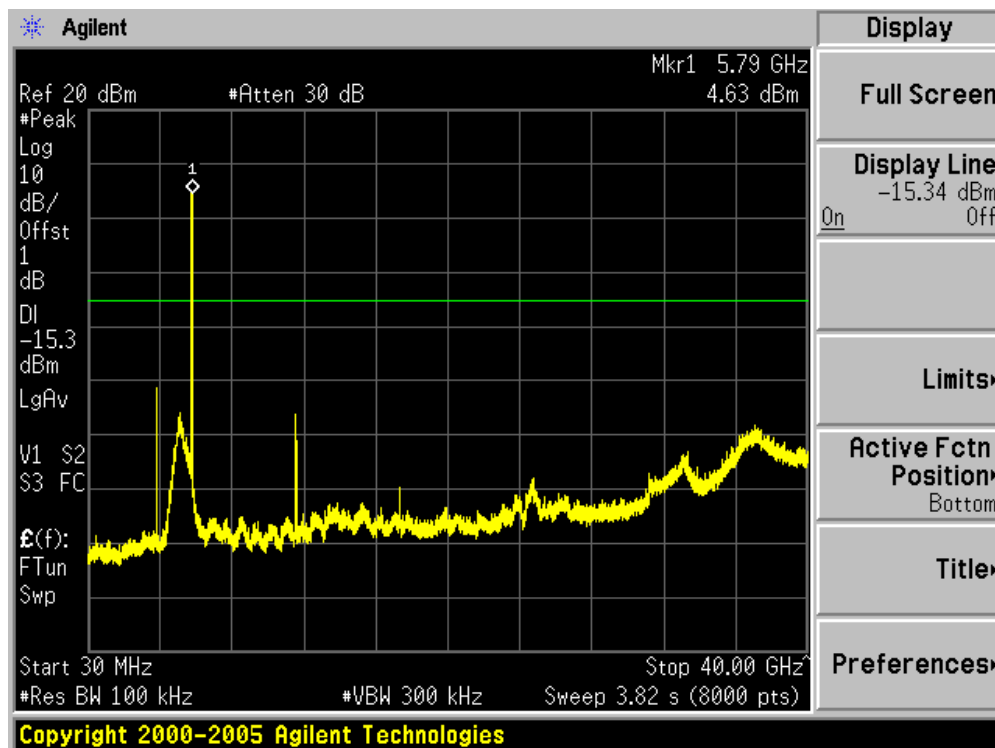


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 100)

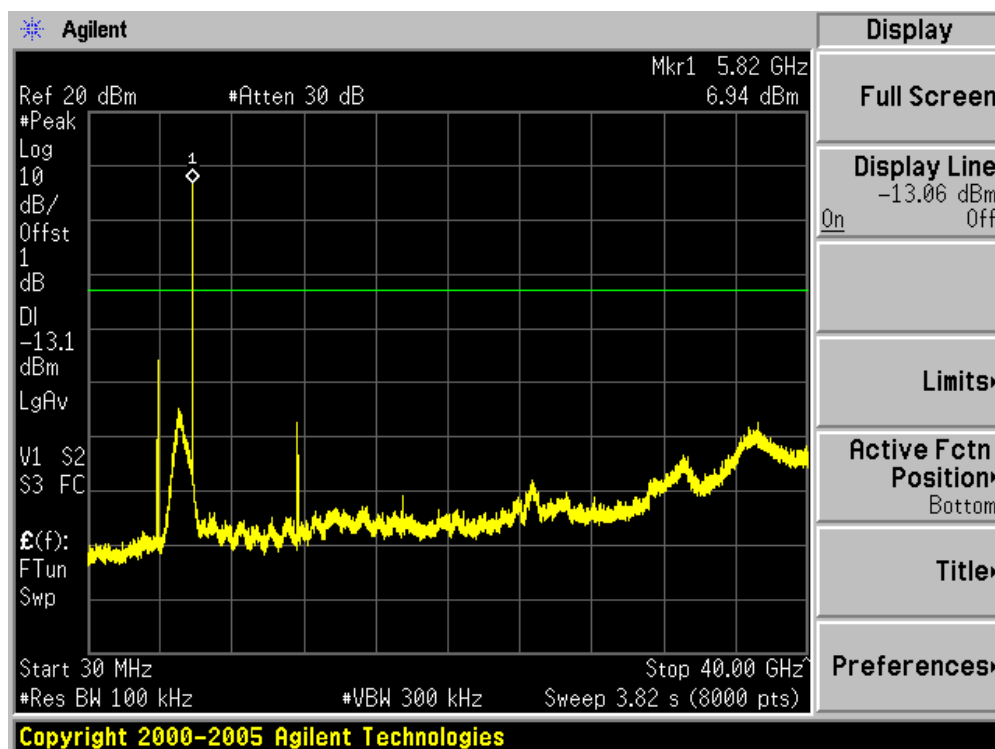
Channel 149 (5745MHz)



Channel 157 (5785MHz)

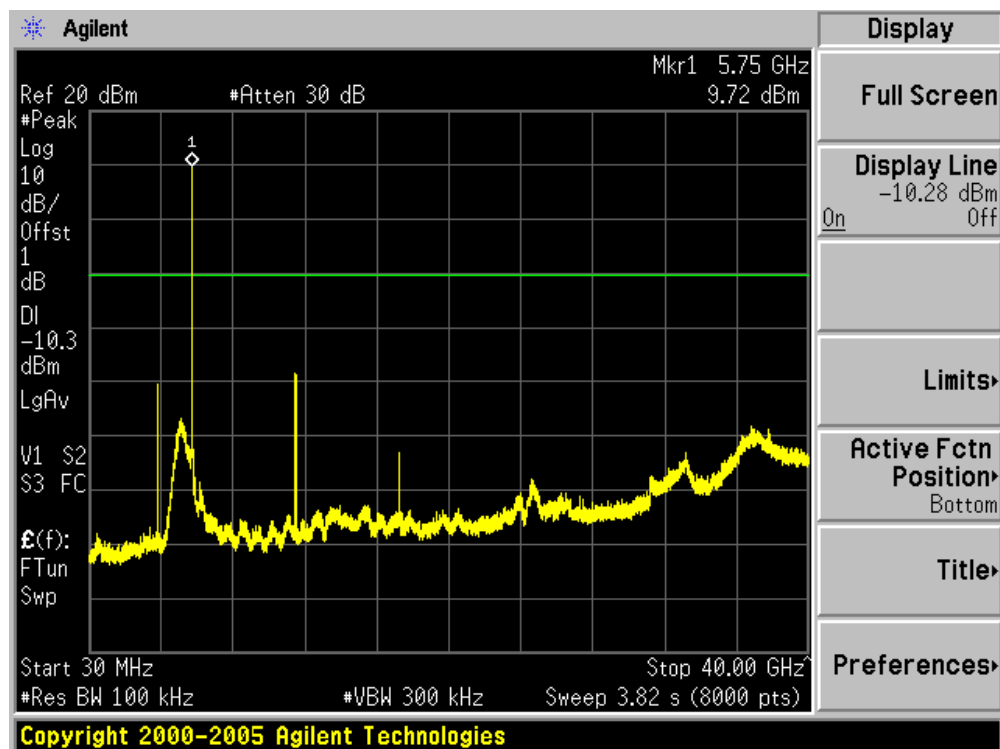


Channel 165 (5825MHz)

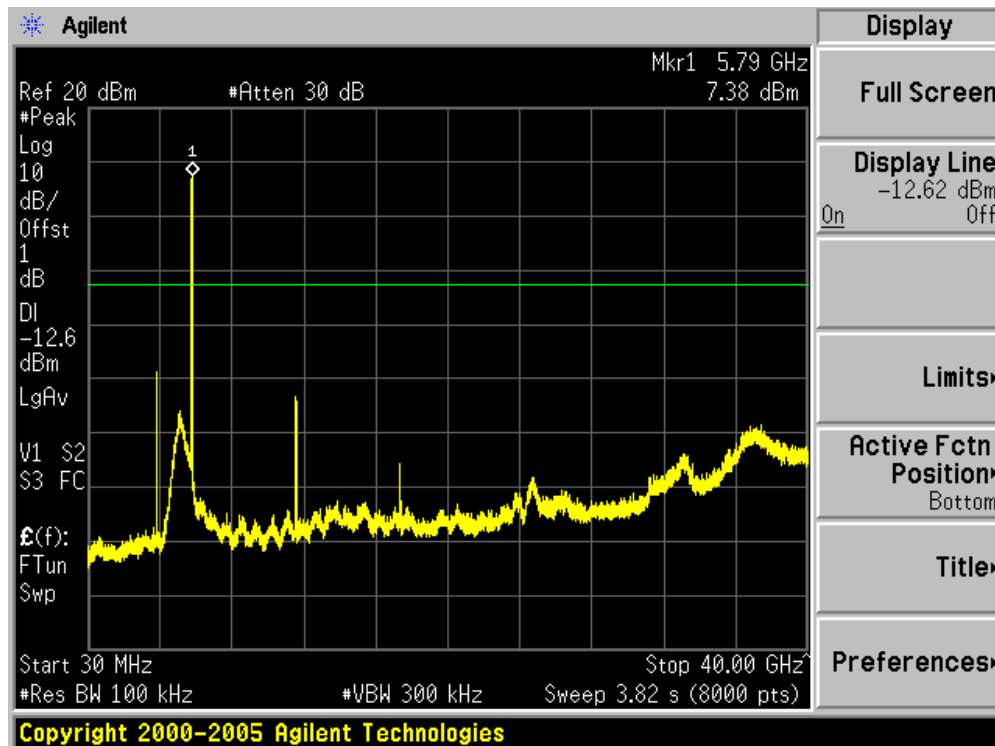


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 100)

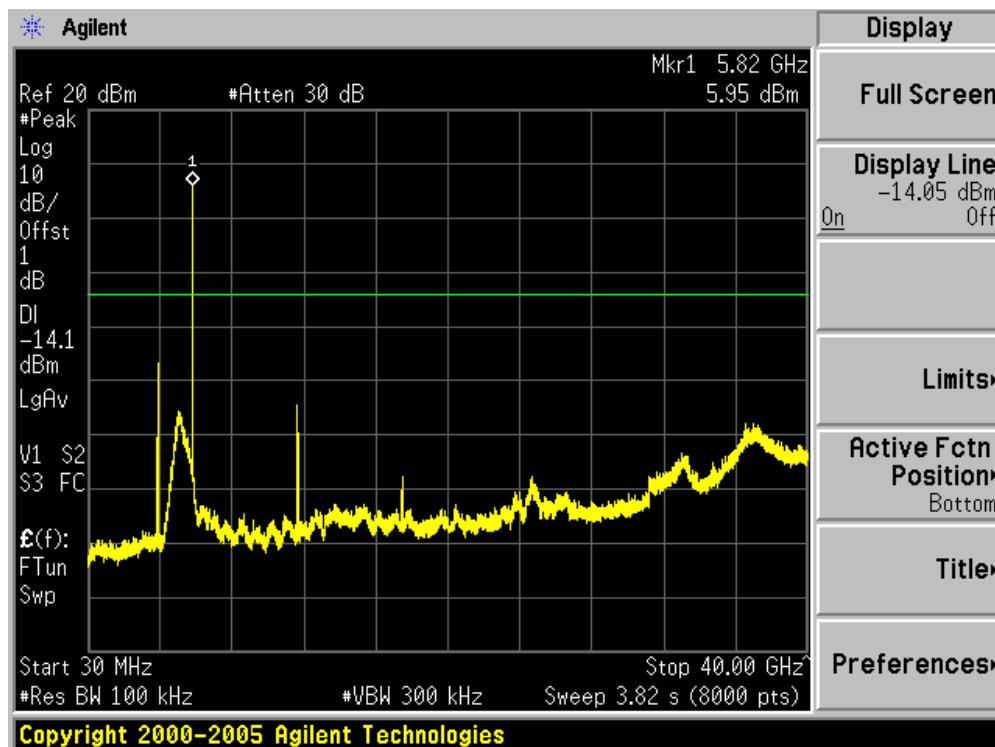
Channel 149 (5745MHz)



Channel 157 (5785MHz)

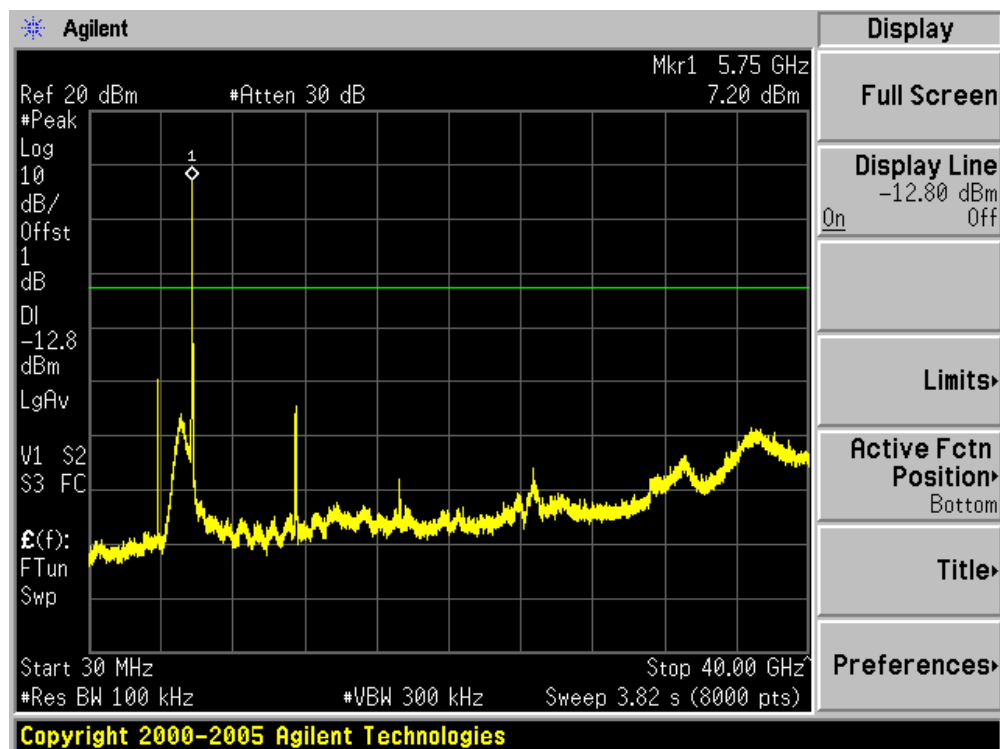


Channel 165 (5825MHz)

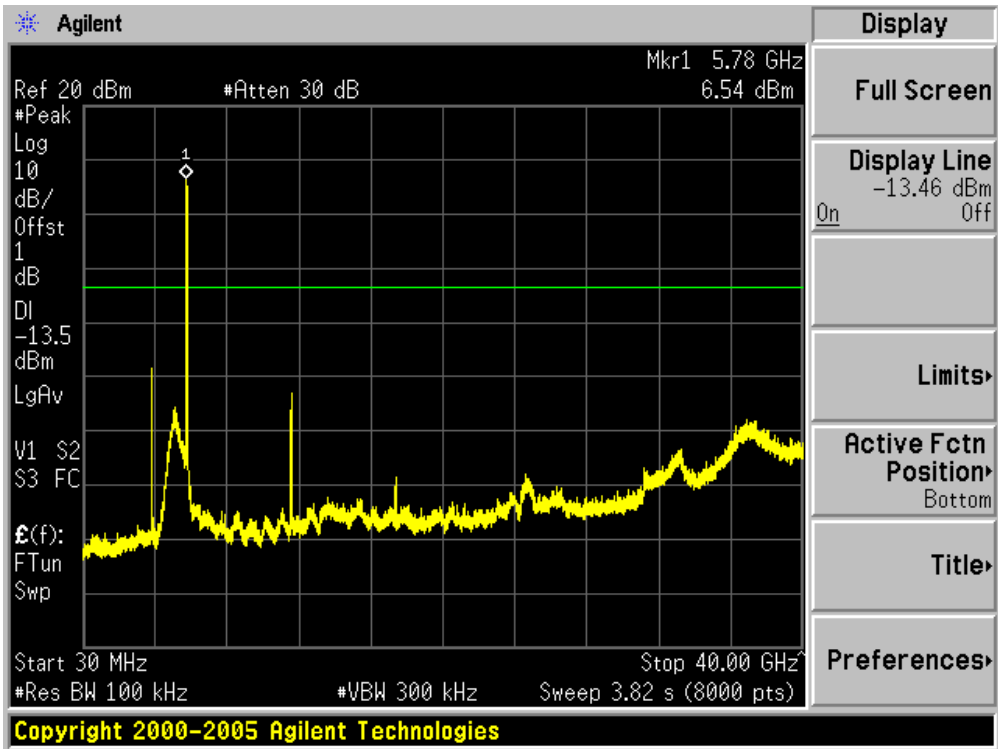


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 100)

Channel 151 (5755MHz)



Channel 159 (5795MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

☒ Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

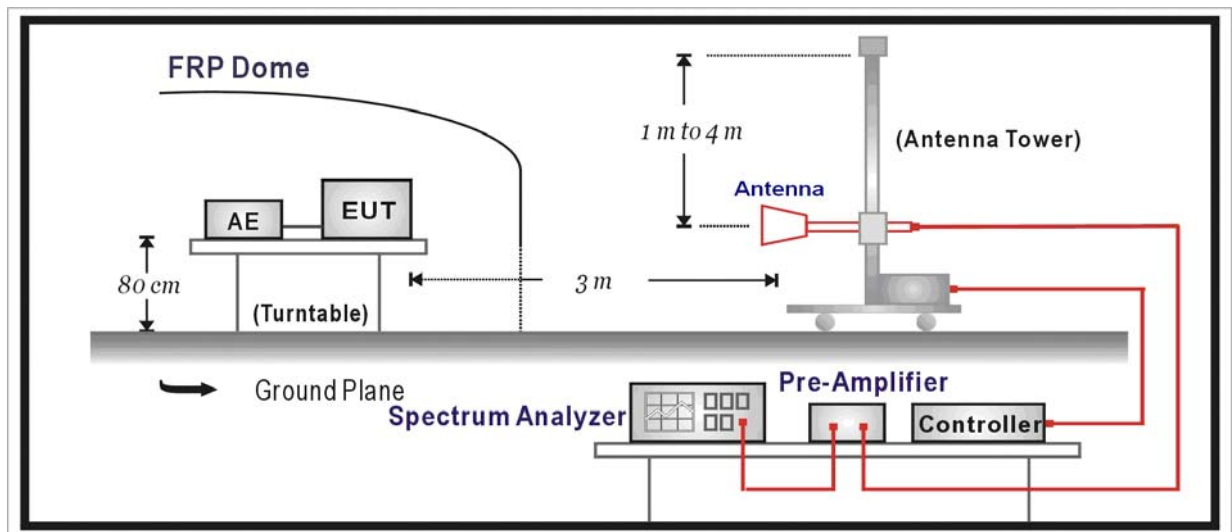
☐ Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Note 2: The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup



6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

According to restricted bands of standard FCC Part 15C, this test item needn't perform.

7. Occupied Bandwidth

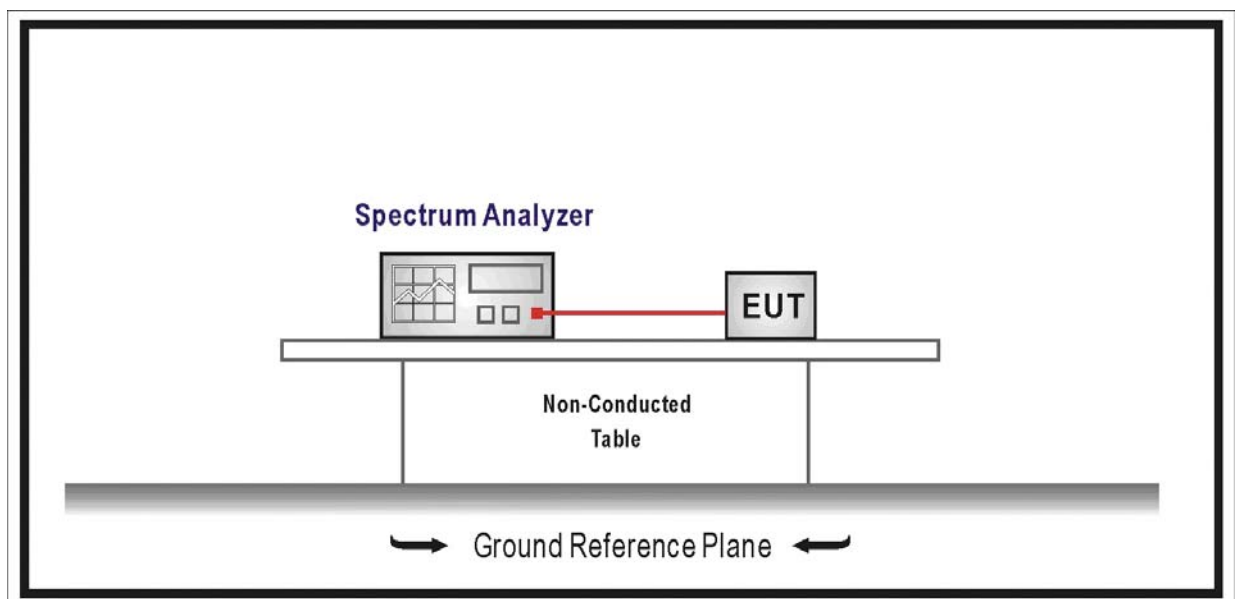
7.1. Test Equipment

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

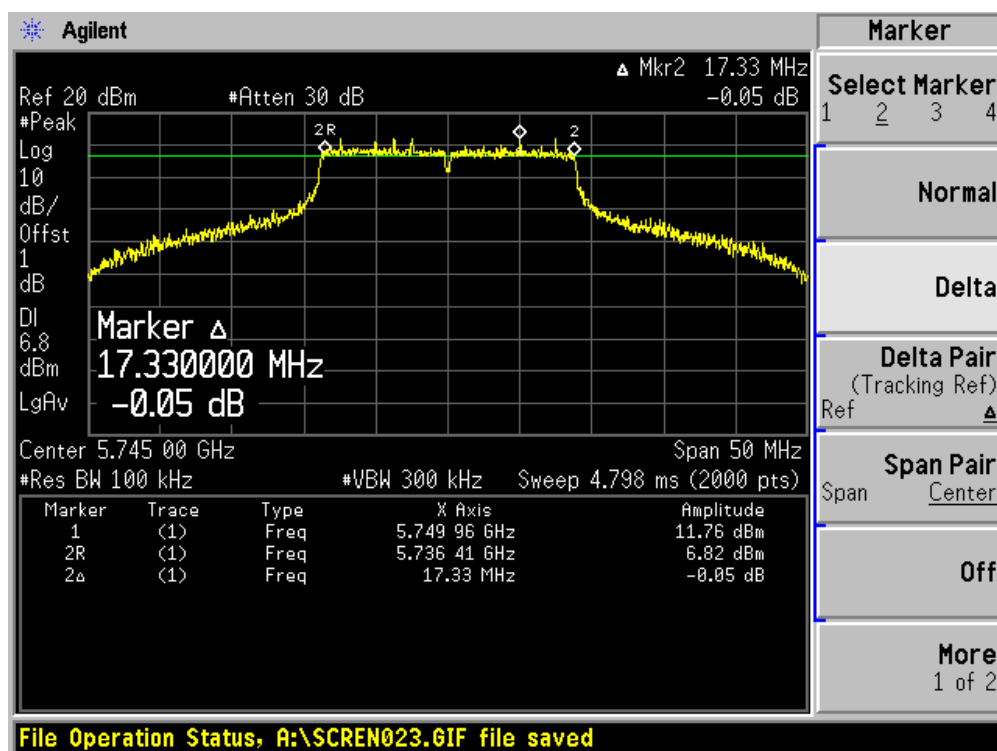
The measurement uncertainty is defined as ± 1 kHz

7.6. Test Result

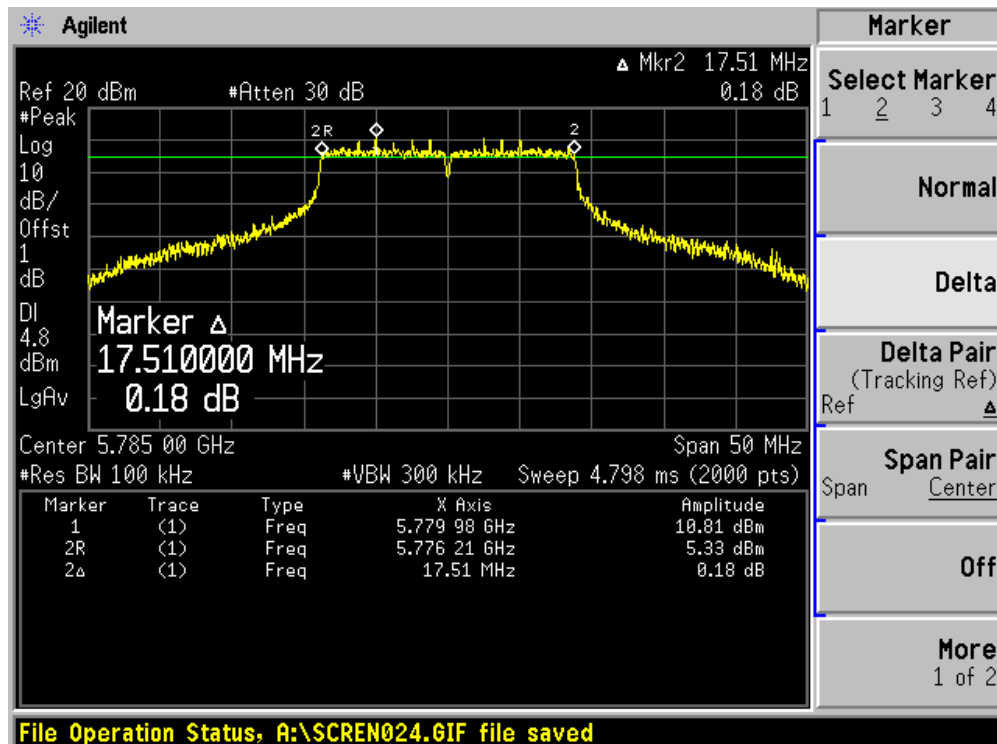
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	17330	500	Pass
157	5785	17510	500	Pass
165	5825	17610	500	Pass

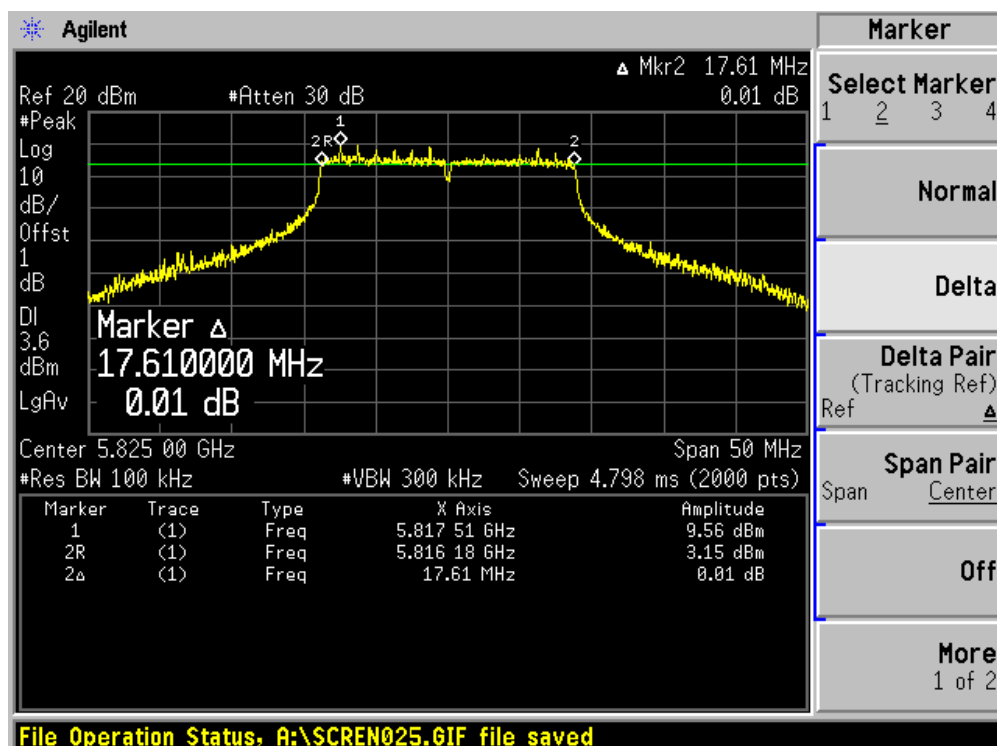
Channel 149 (5745MHz)



Channel 157 (5785MHz)



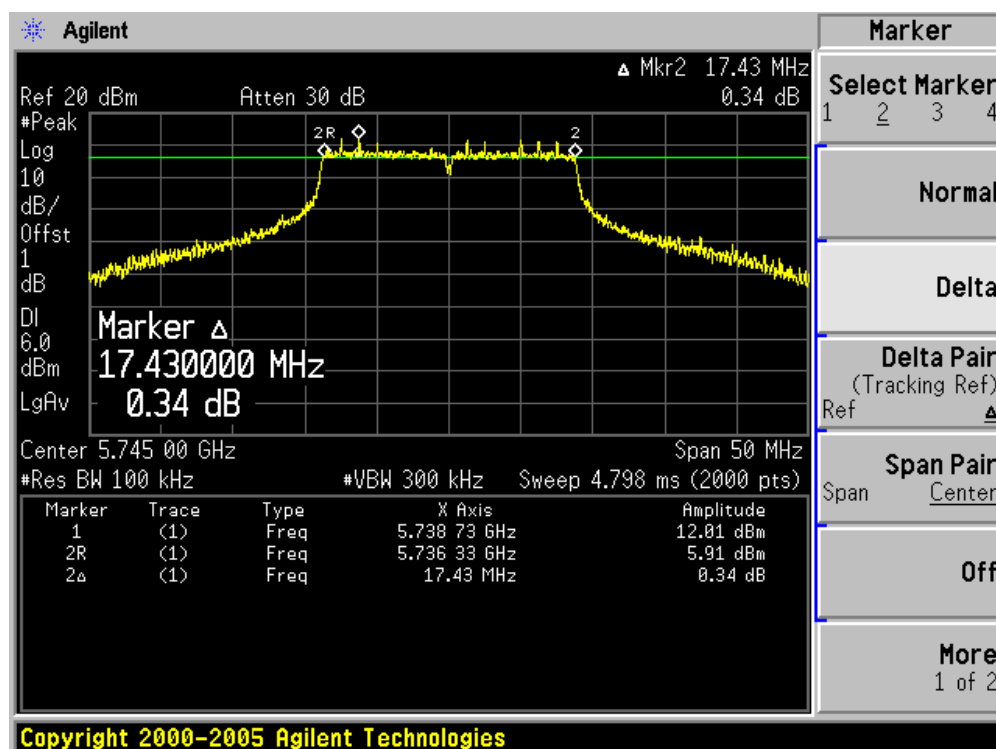
Channel 165 (5825MHz)



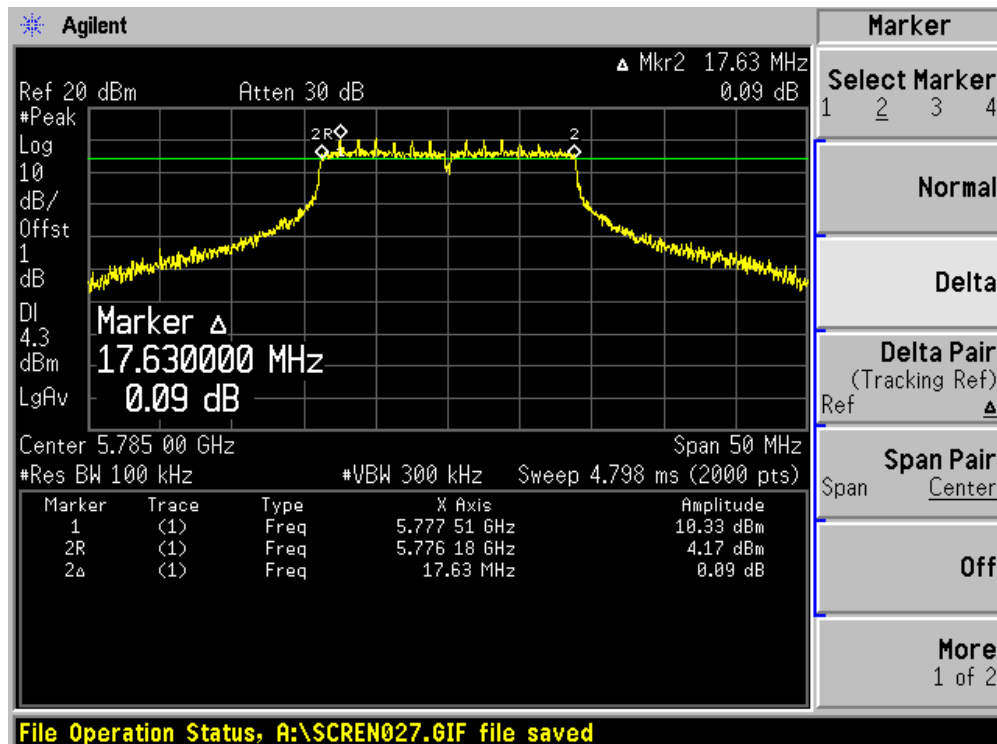
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	17430	500	Pass
157	5785	17630	500	Pass
165	5825	17460	500	Pass

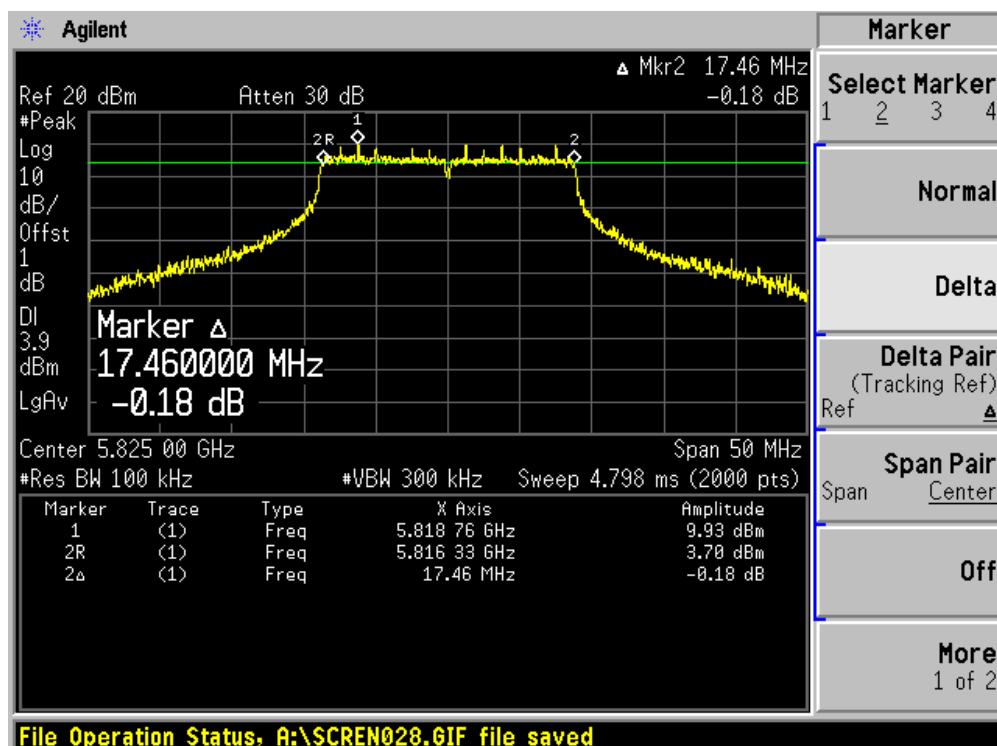
Channel 149 (5745MHz)



Channel 157 (5785MHz)



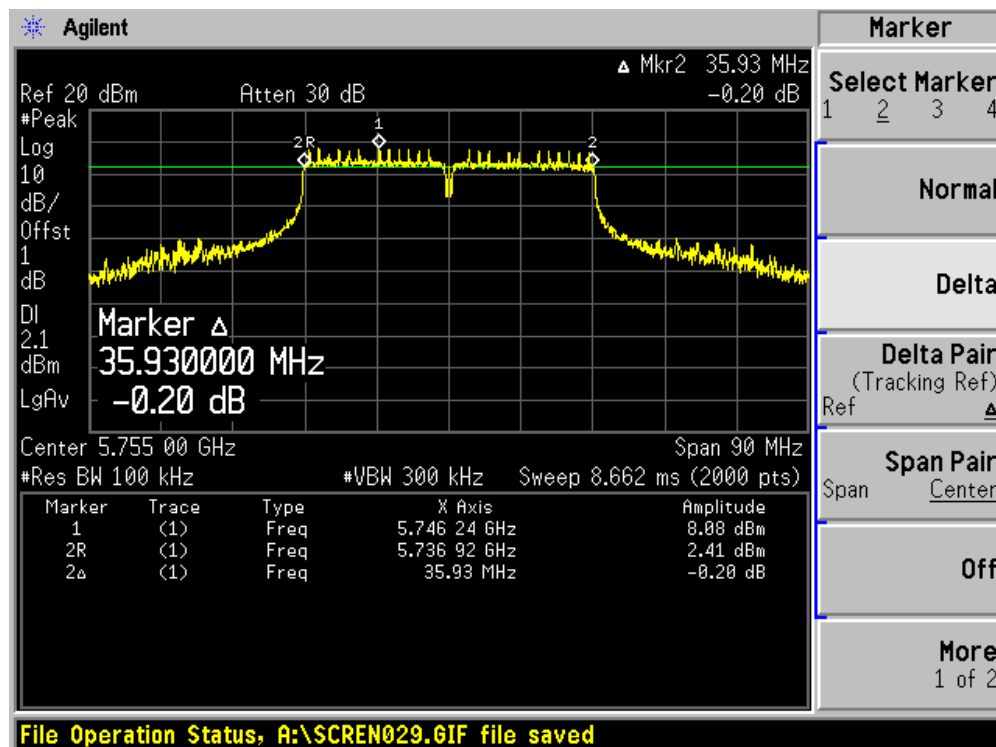
Channel 165 (5825MHz)



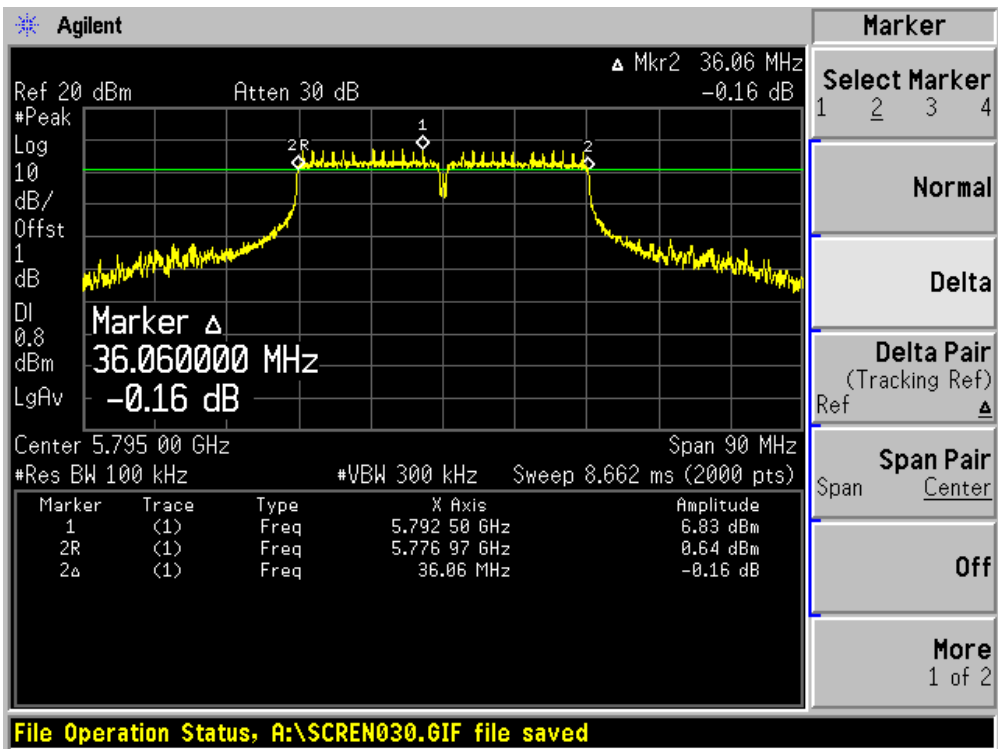
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
151	5755	35930	500	Pass
159	5795	36060	500	Pass

Channel 151 (5755MHz)



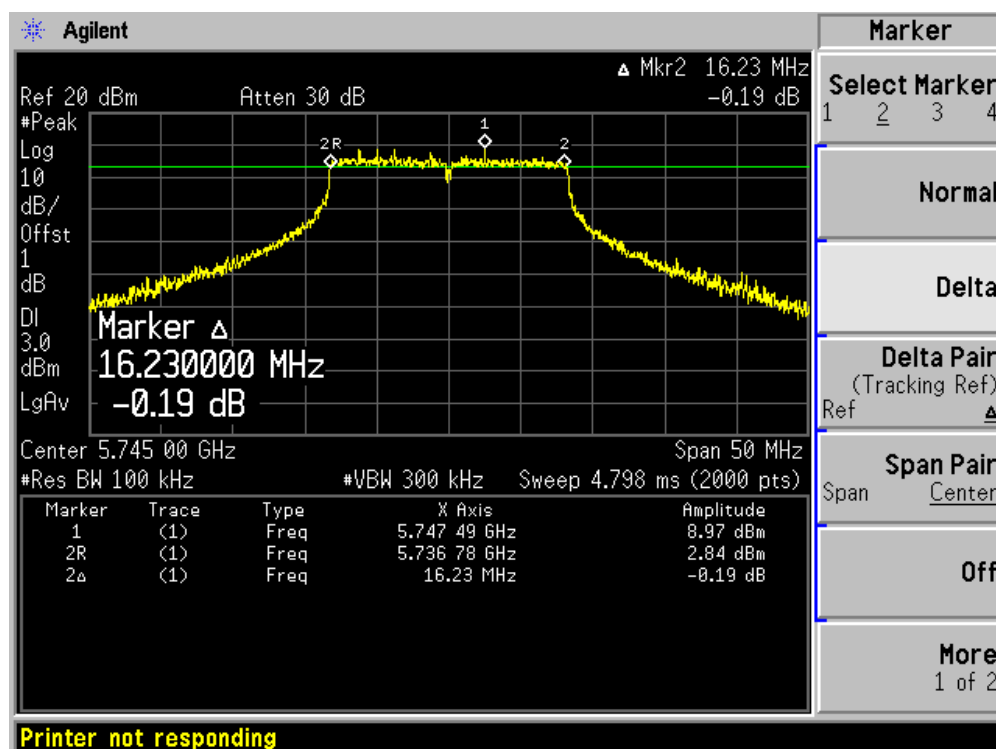
Channel 159 (5795MHz)



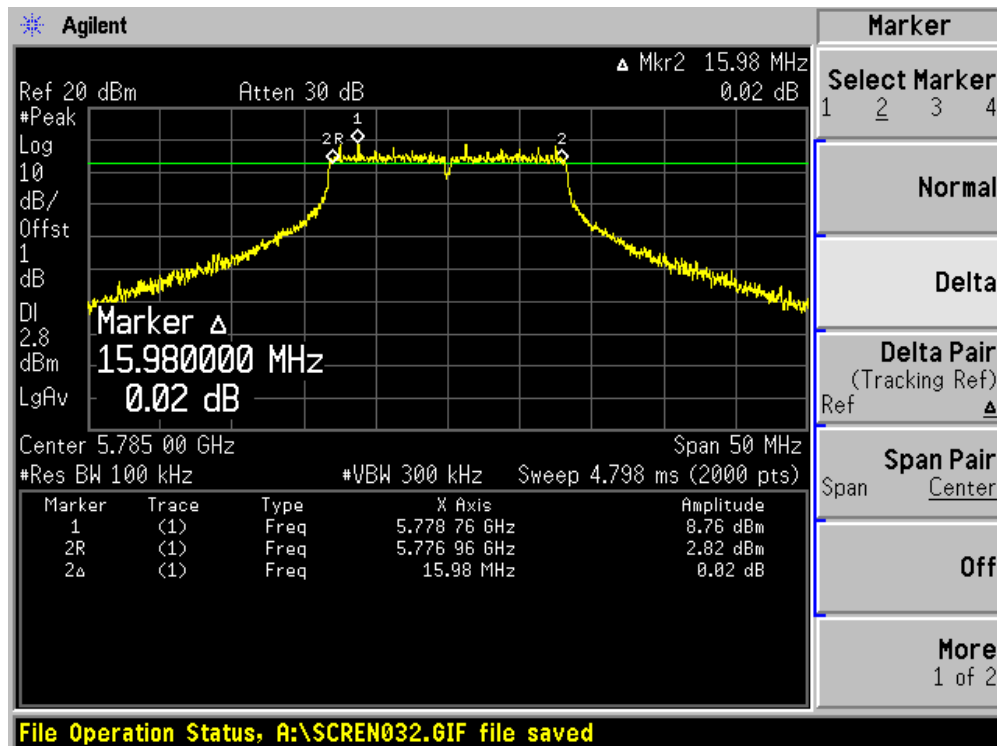
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	16230	500	Pass
157	5785	15980	500	Pass
165	5825	16010	500	Pass

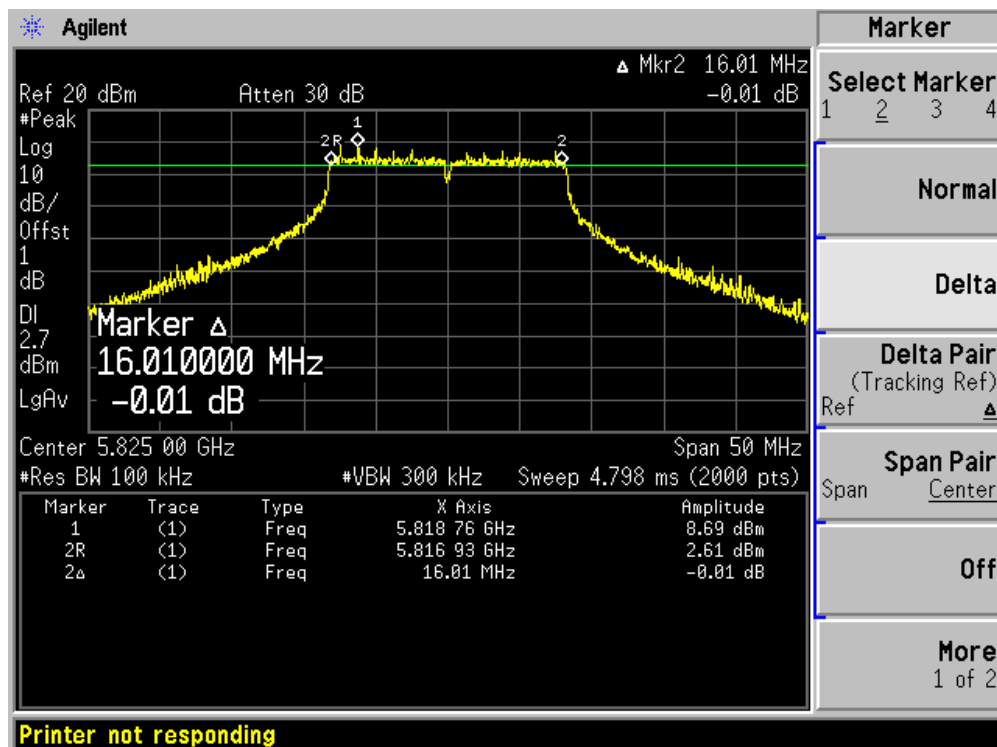
Channel 149 (5745MHz)



Channel 157 (5785MHz)



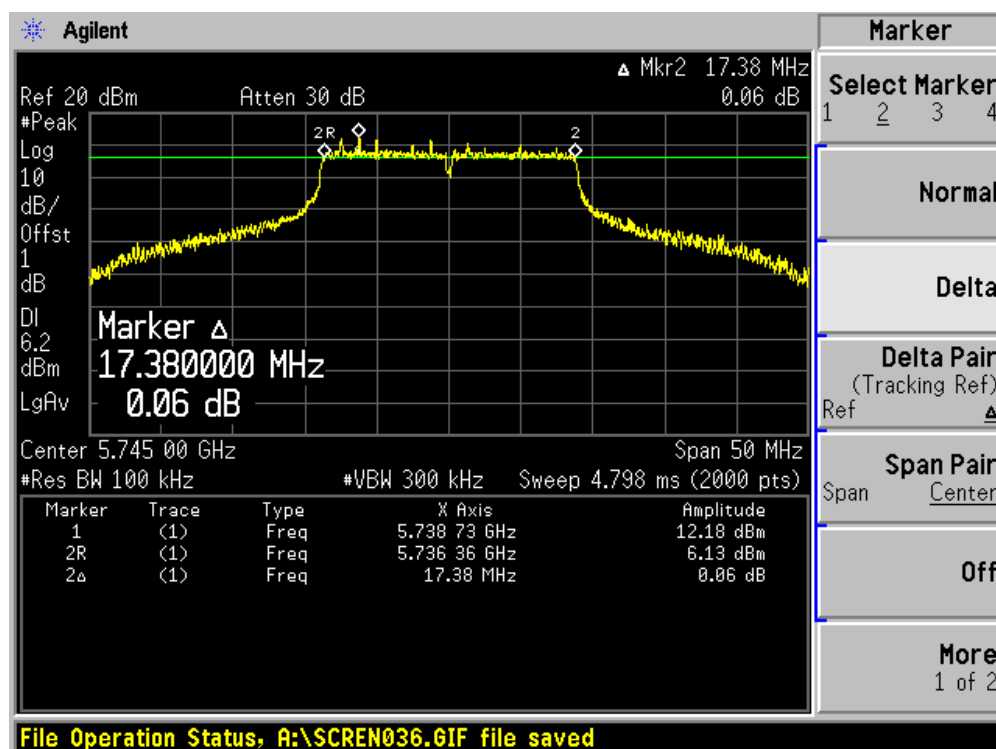
Channel 165 (5825MHz)



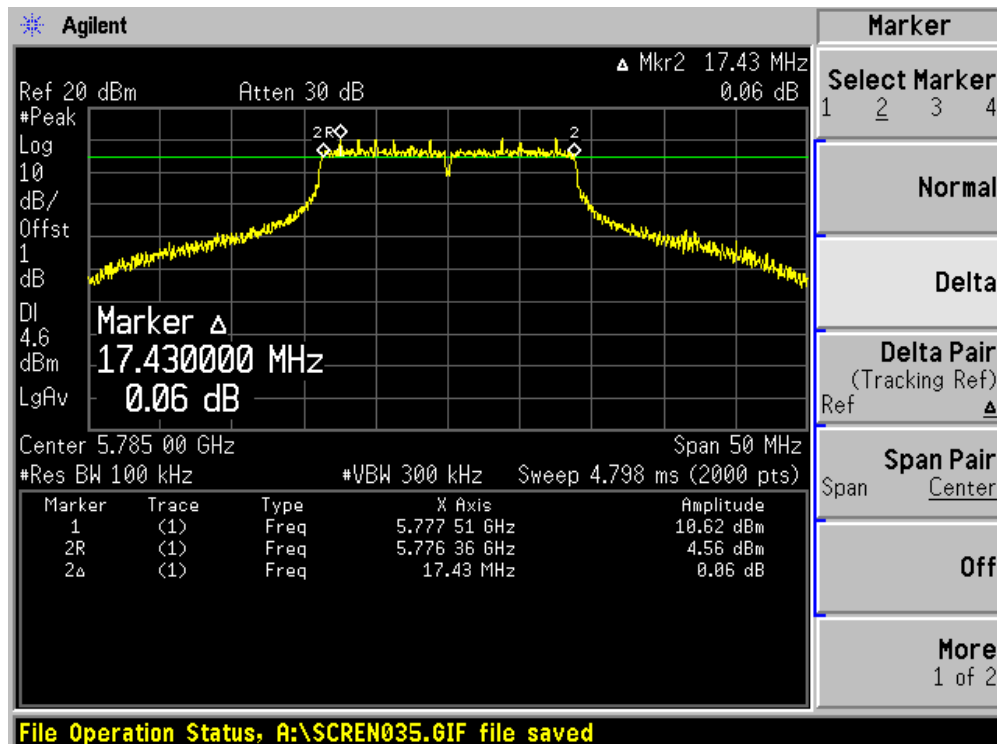
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
149	5745	17380	500	Pass
157	5785	17430	500	Pass
165	5825	17230	500	Pass

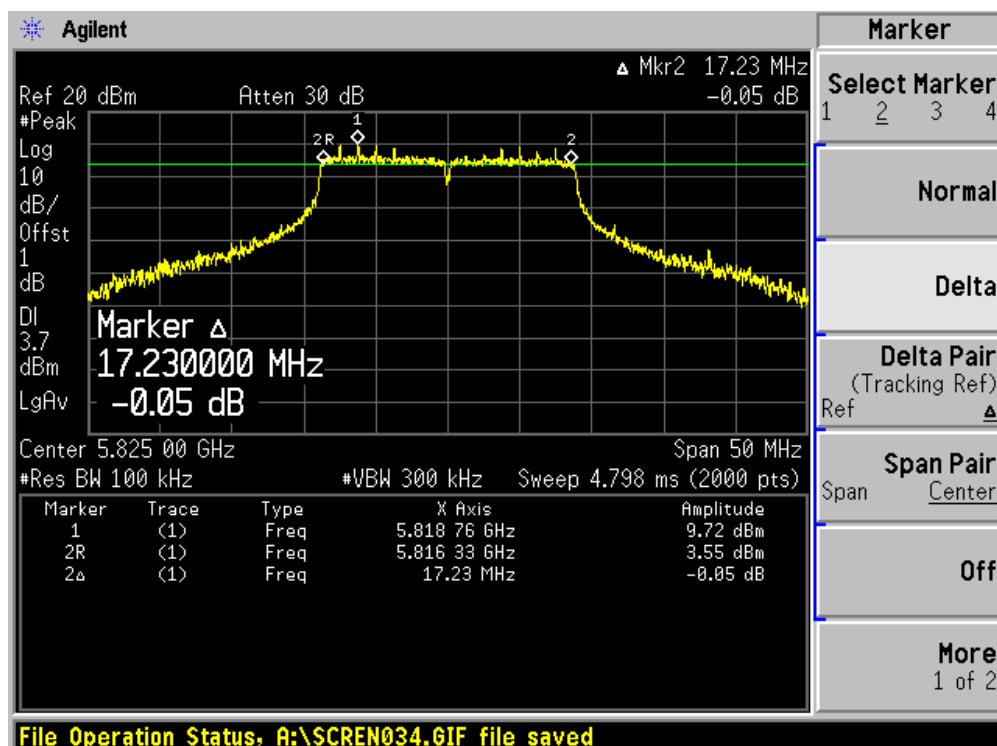
Channel 151 (5755MHz)



Channel 157 (5785MHz)



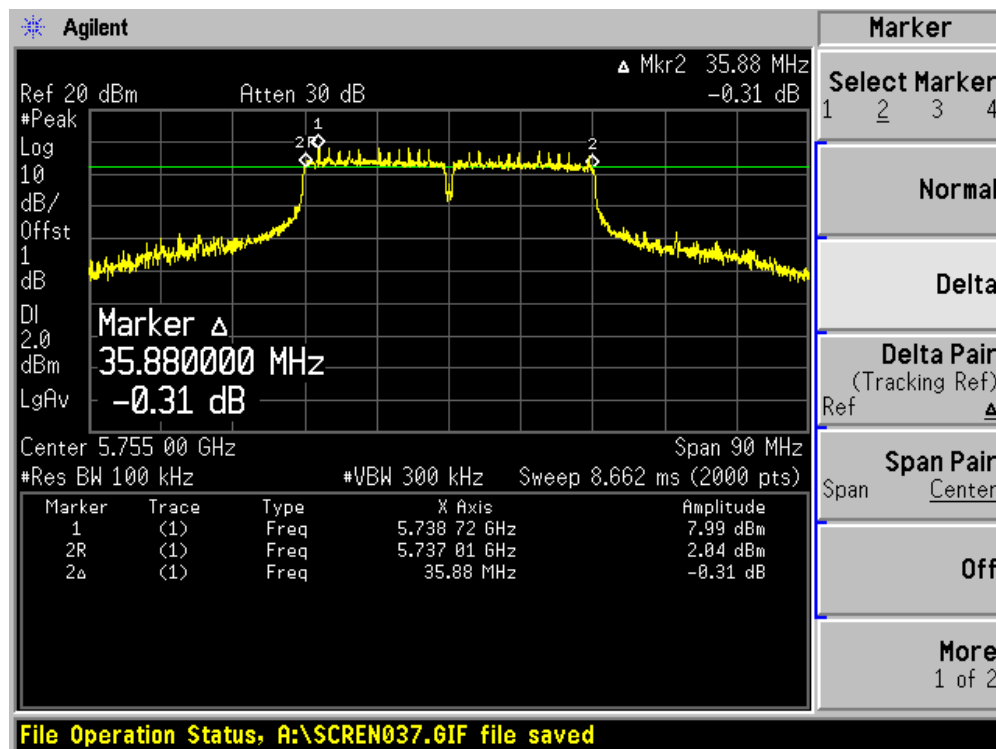
Channel 165 (5825MHz)



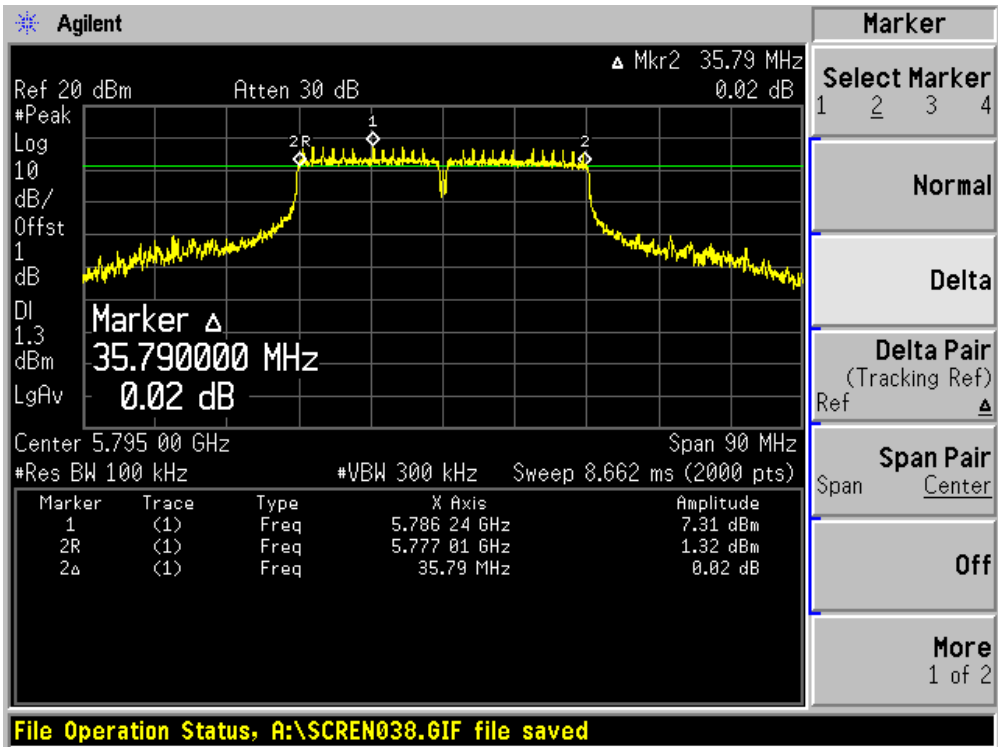
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
151	5755	13010	500	Pass
159	5795	12080	500	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)



8. Power Output

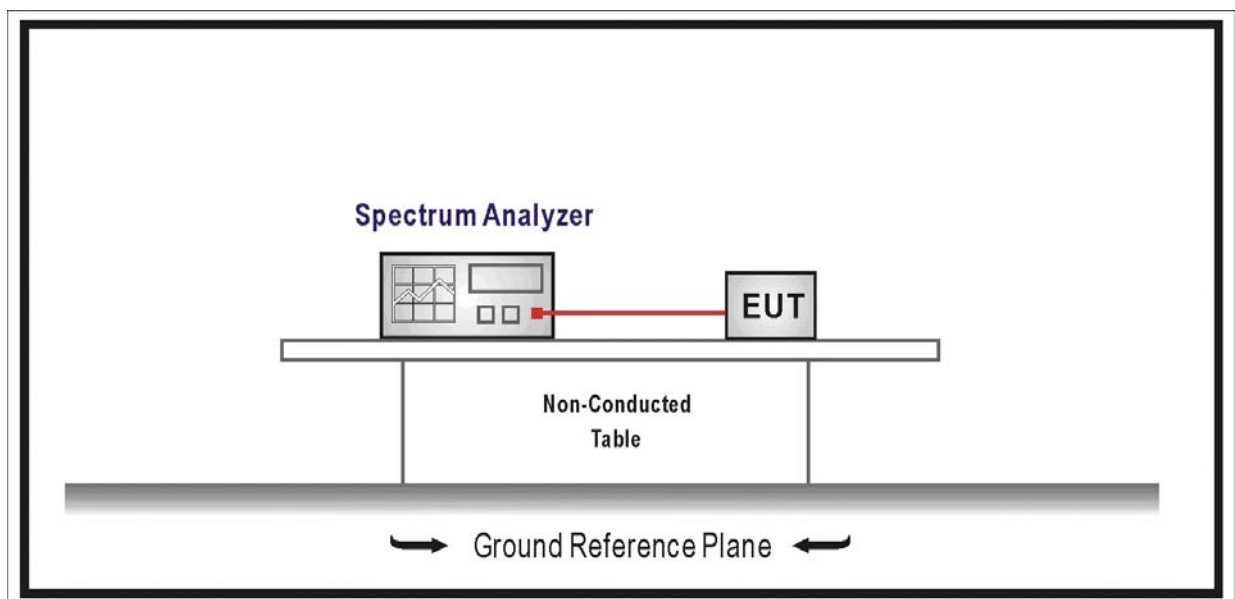
8.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

8.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Power output measurement allowed per Section 15.247(b)(3).

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time.

As “T” \geq sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW \geq 3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

8.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

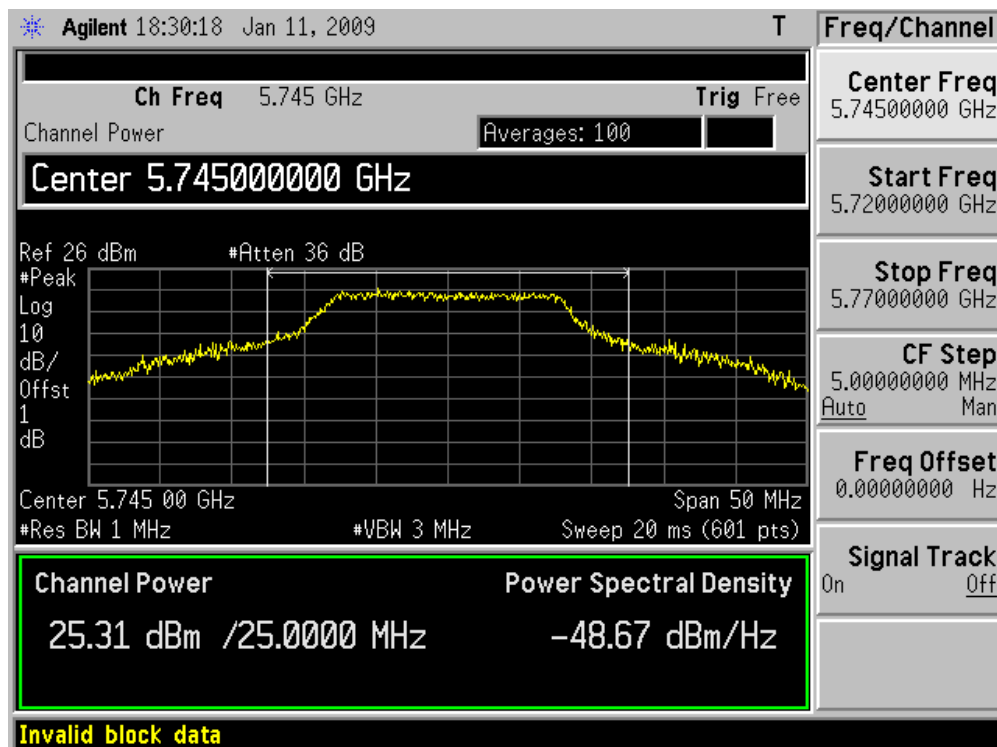
8.6. Test Result

Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 010)

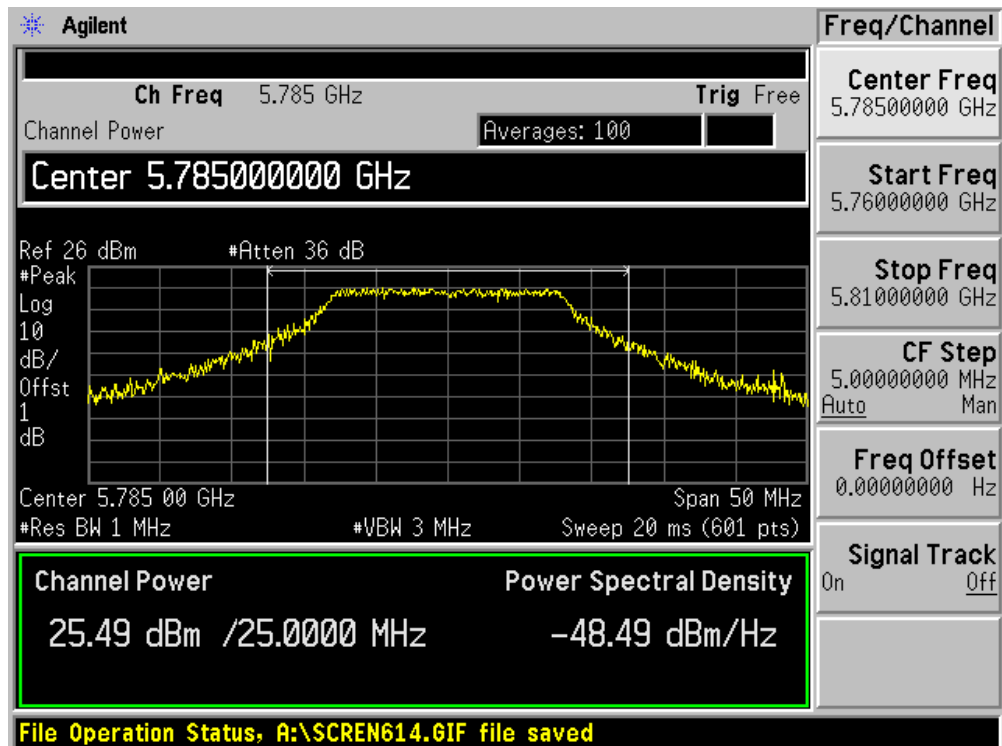
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	25.31	N/A	25.31	30.00	Pass
157	5785	25.49	N/A	25.49	30.00	Pass
165	5825	25.54	N/A	25.54	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

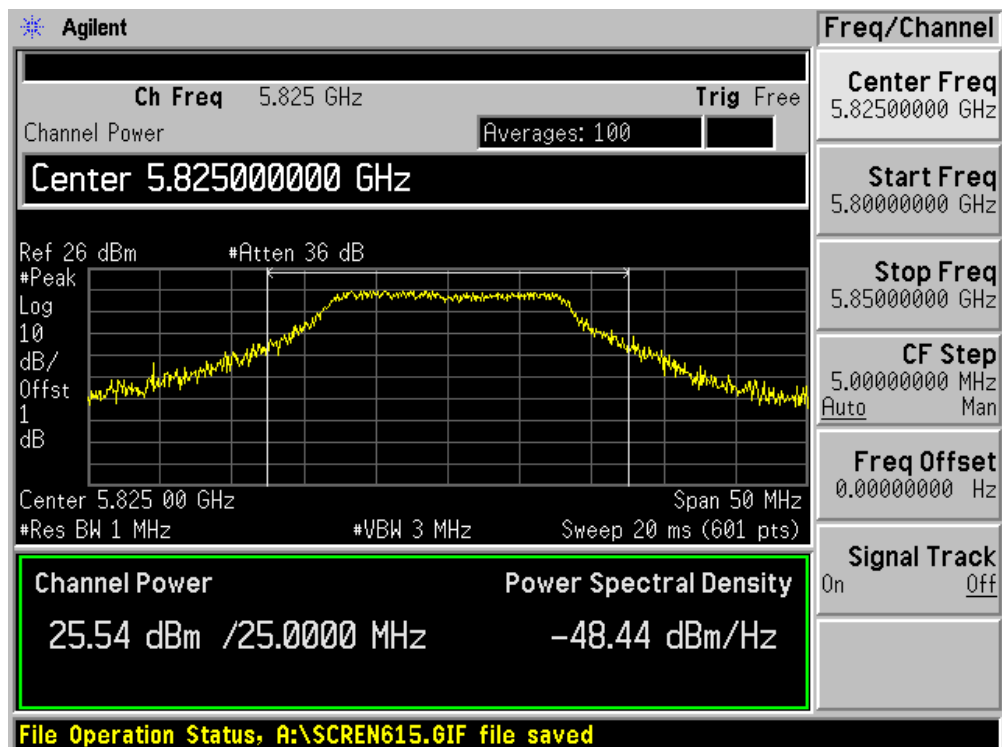
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

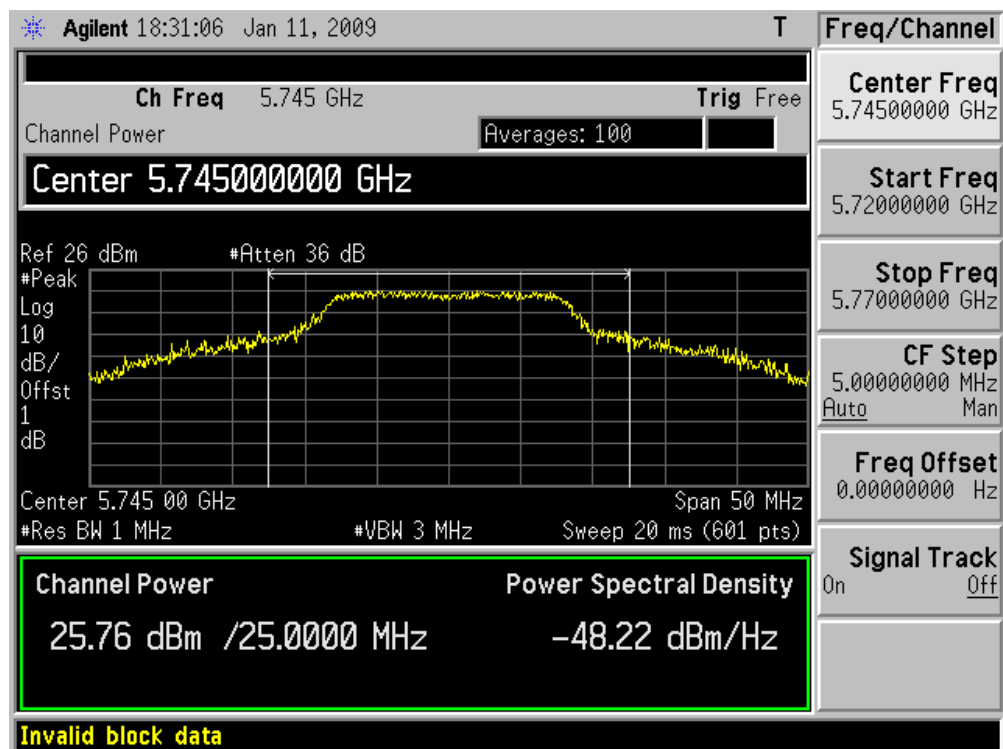


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 100)

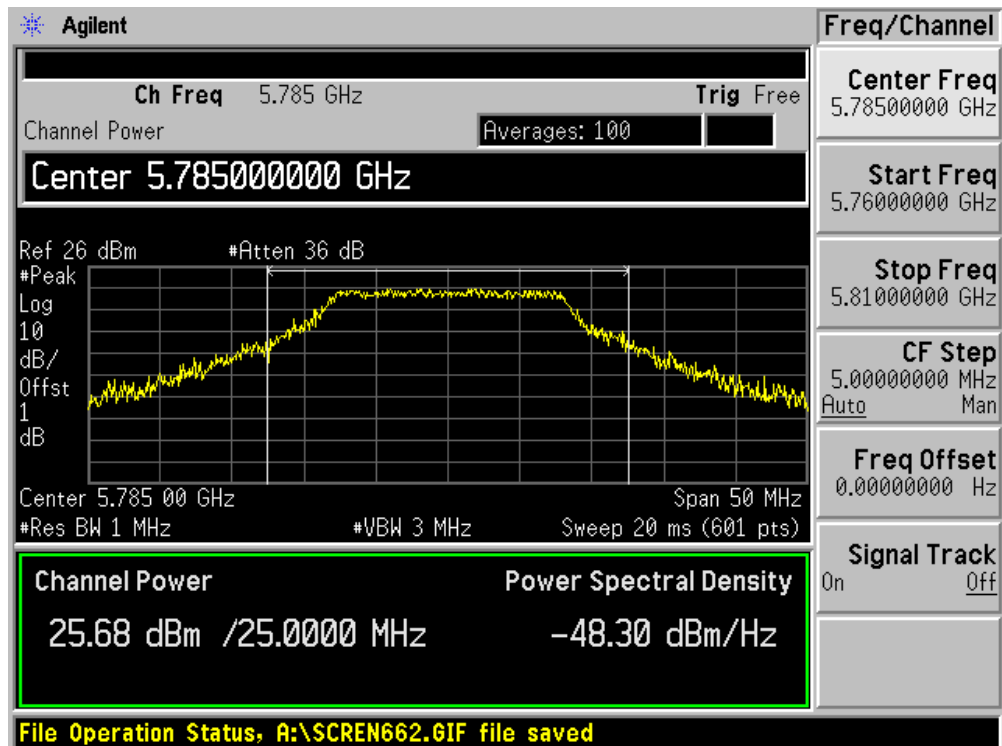
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	N/A	25.76	25.76	30.00	Pass
157	5785	N/A	25.68	25.68	30.00	Pass
165	5825	N/A	25.73	25.73	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

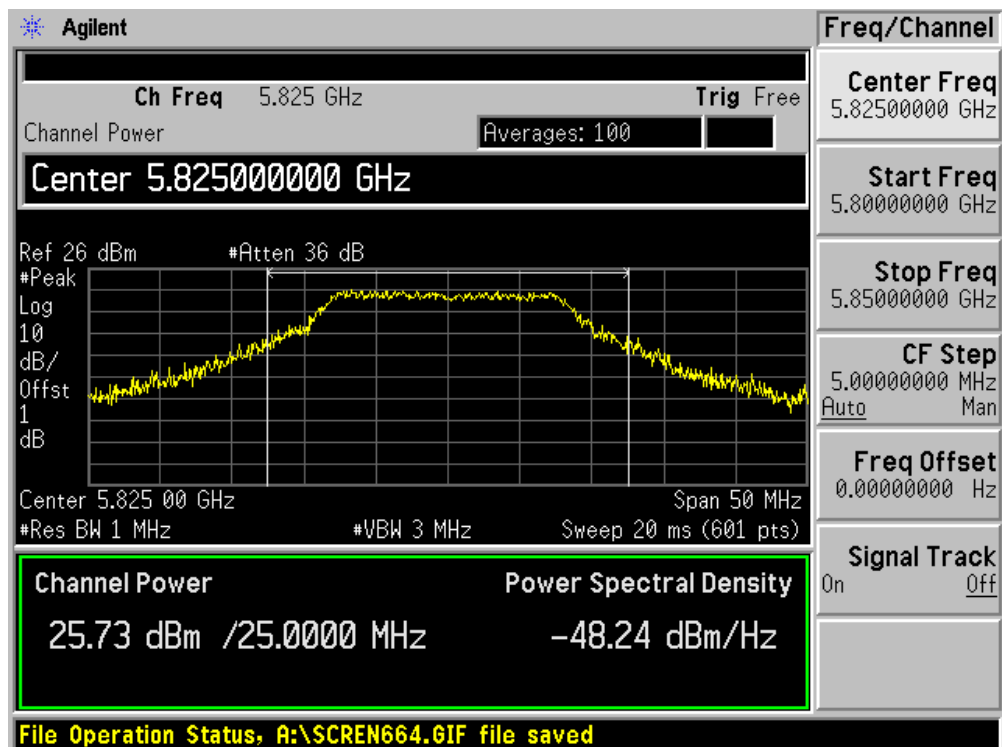
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

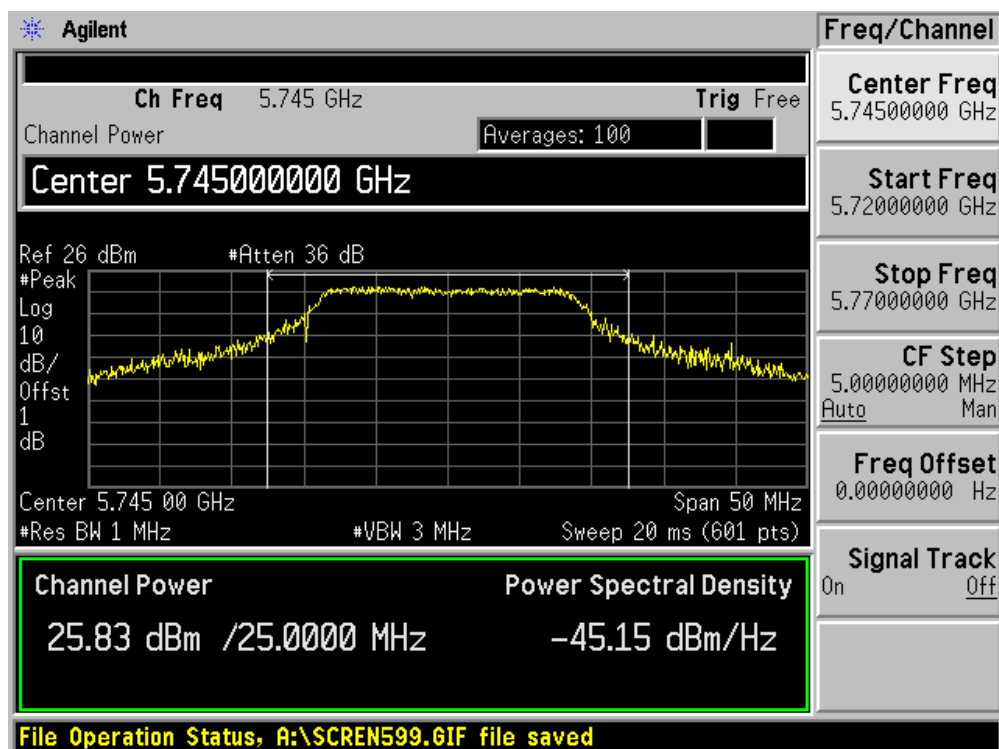


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 010)

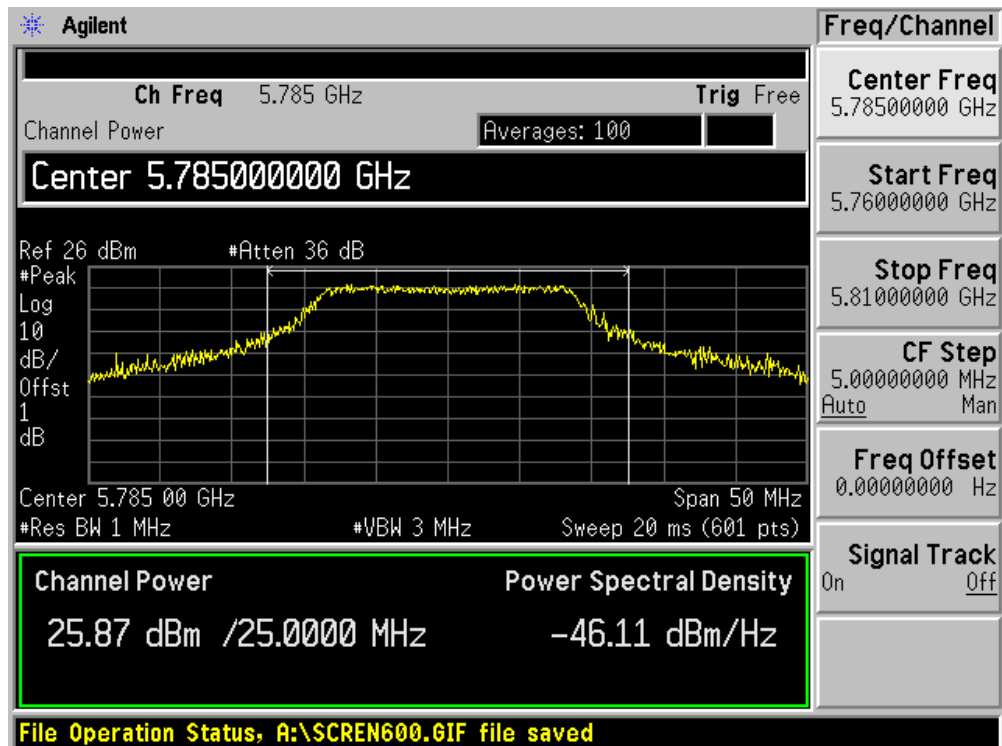
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	25.83	N/A	25.83	30.00	Pass
157	5785	25.87	N/A	25.87	30.00	Pass
165	5825	25.10	N/A	25.10	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

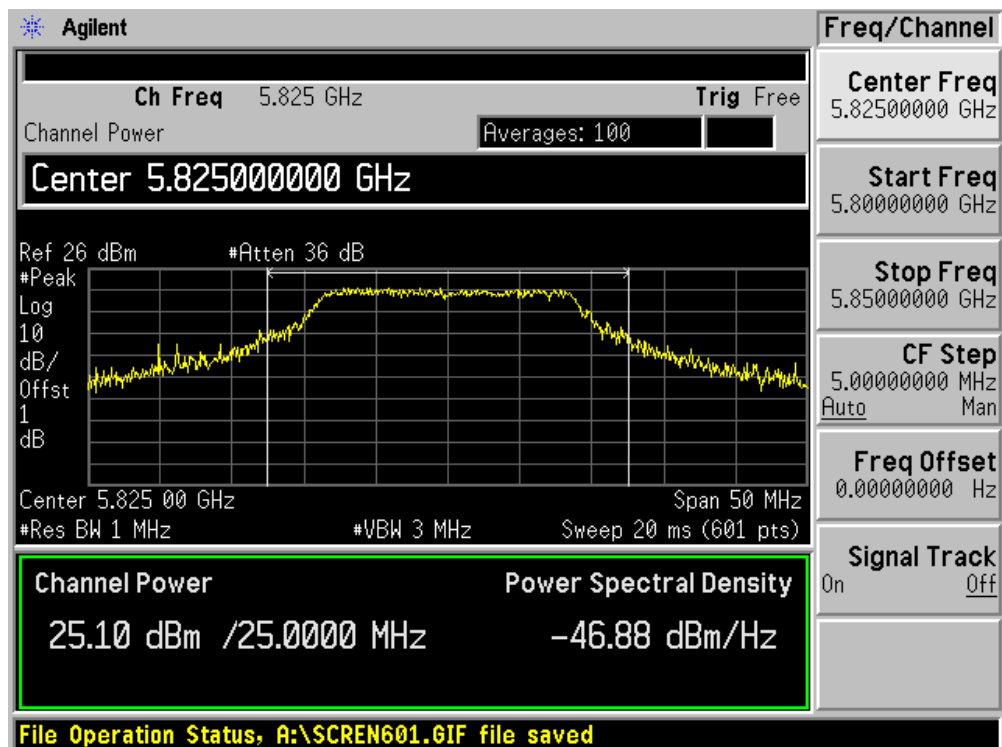
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

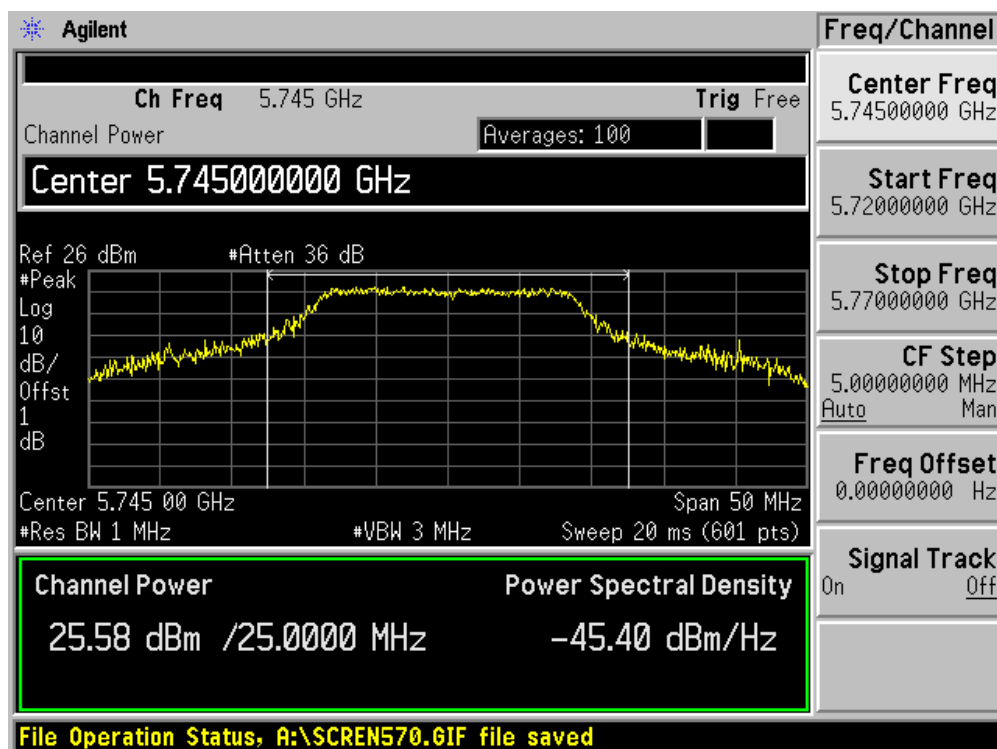


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 100)

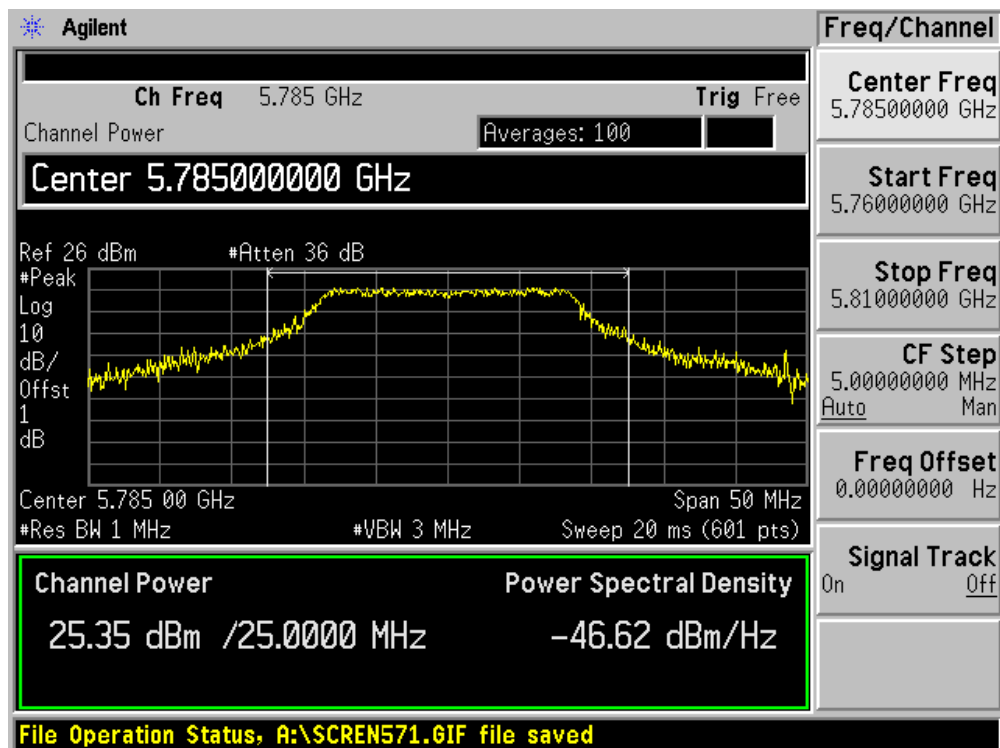
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	N/A	25.58	25.58	30.00	Pass
157	5785	N/A	25.35	25.35	30.00	Pass
165	5825	N/A	25.80	25.80	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

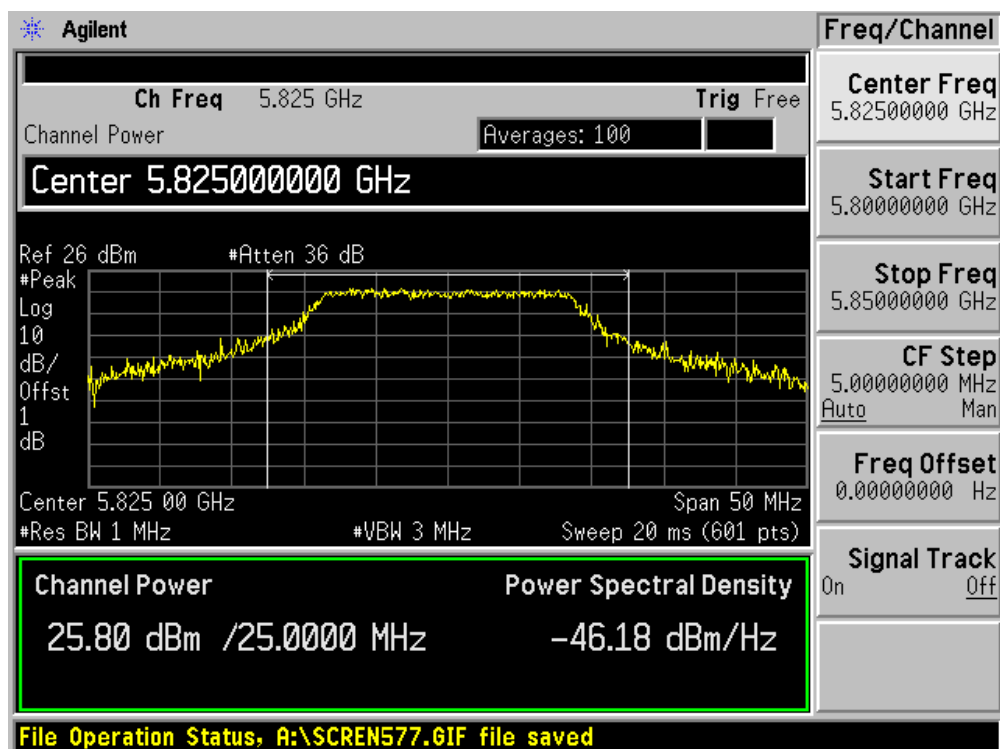
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

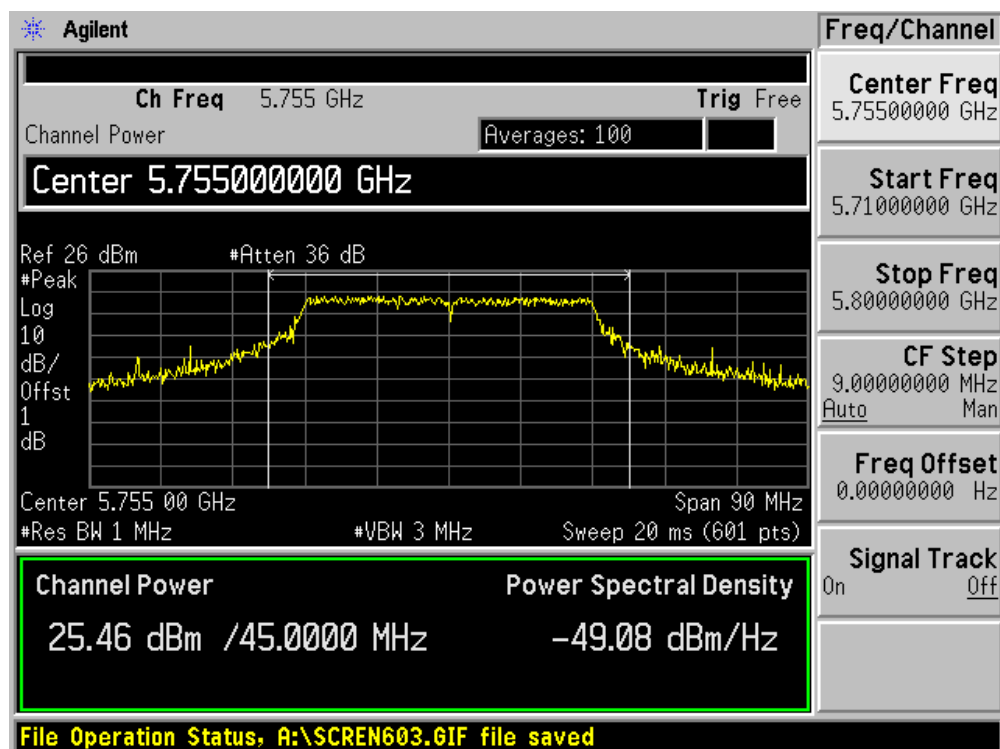


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 010)

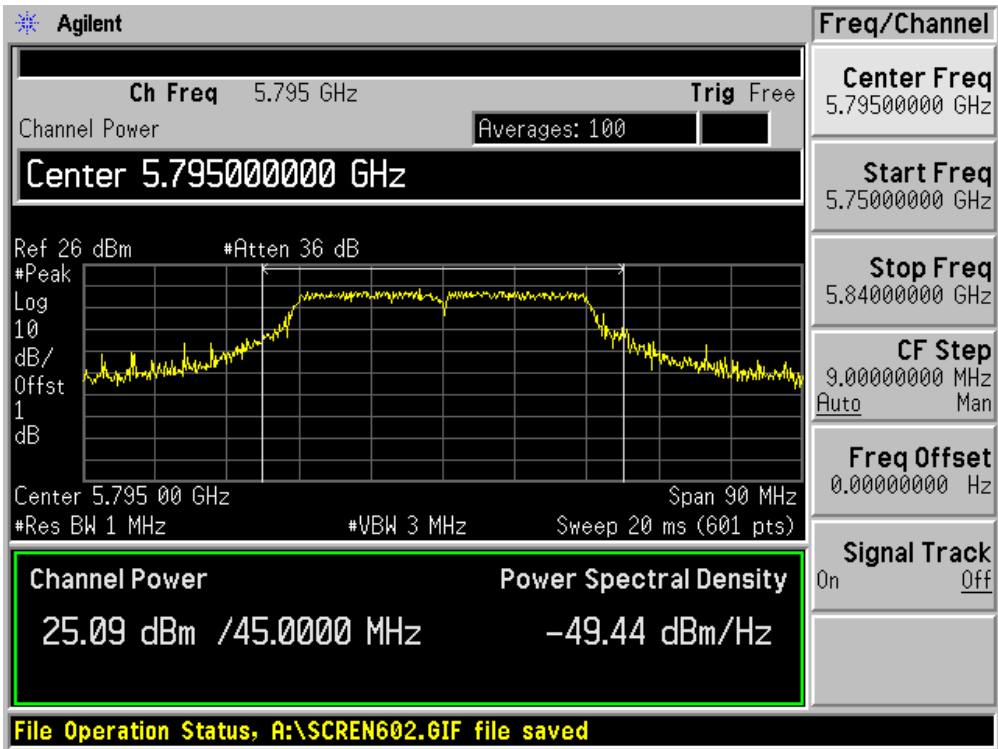
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	25.46	N/A	25.46	30.00	Pass
159	5795	25.09	N/A	25.09	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

Channel 151 (5755MHz)



Channel 159 (5795MHz)

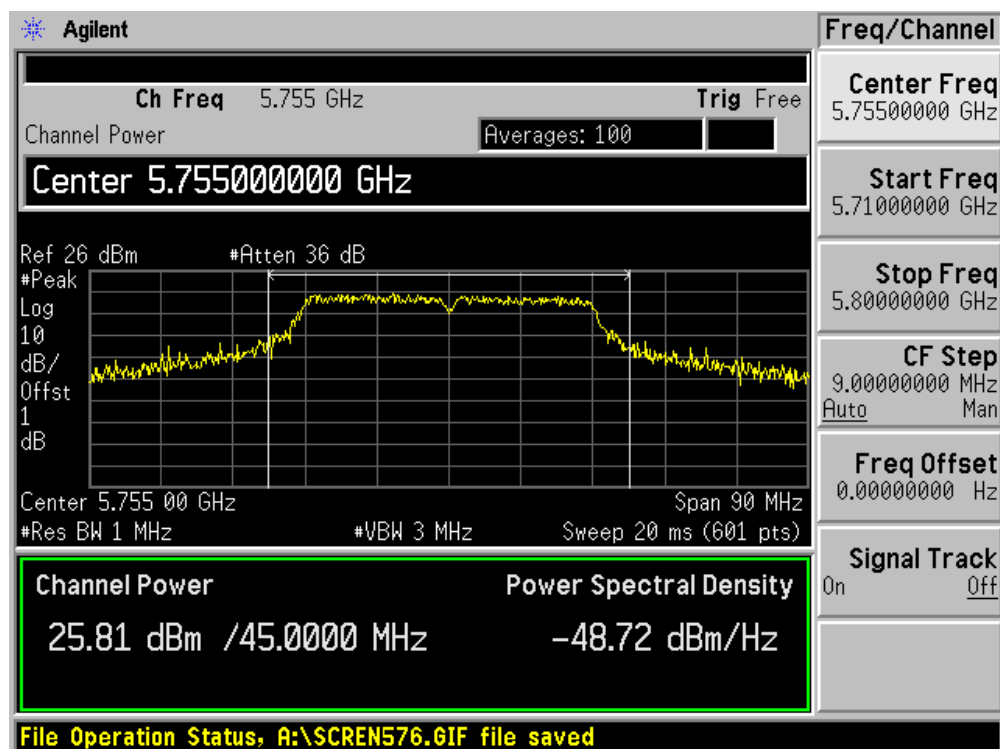


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 100)

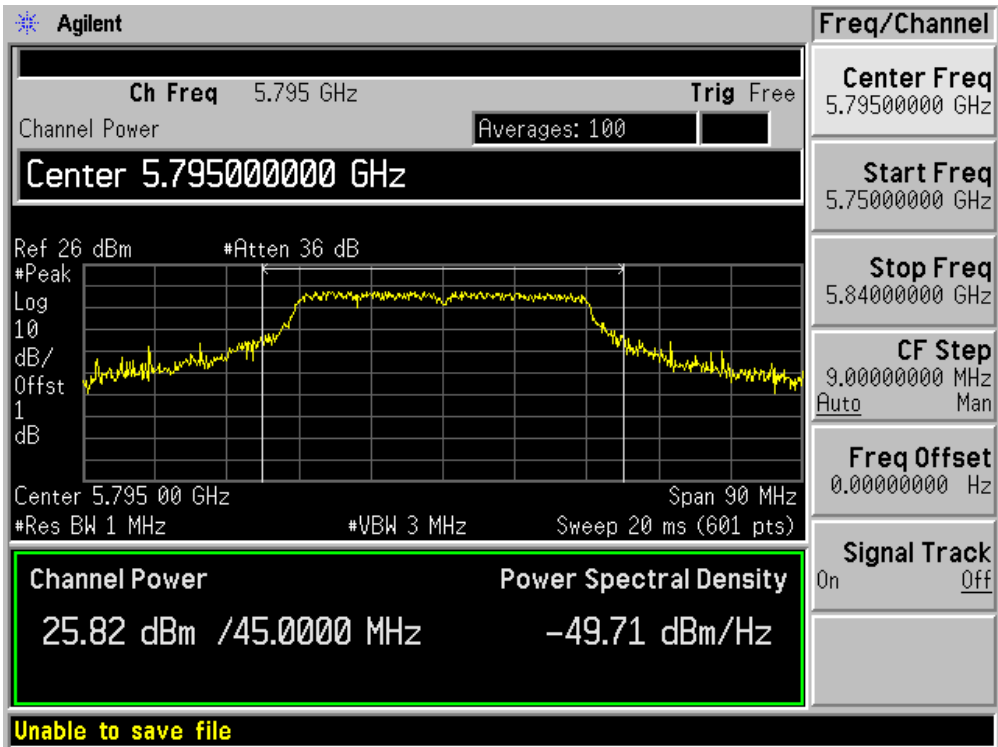
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	N/A	25.81	25.81	30.00	Pass
159	5795	N/A	25.82	25.82	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

Channel 151 (5755MHz)



Channel 159 (5795MHz)

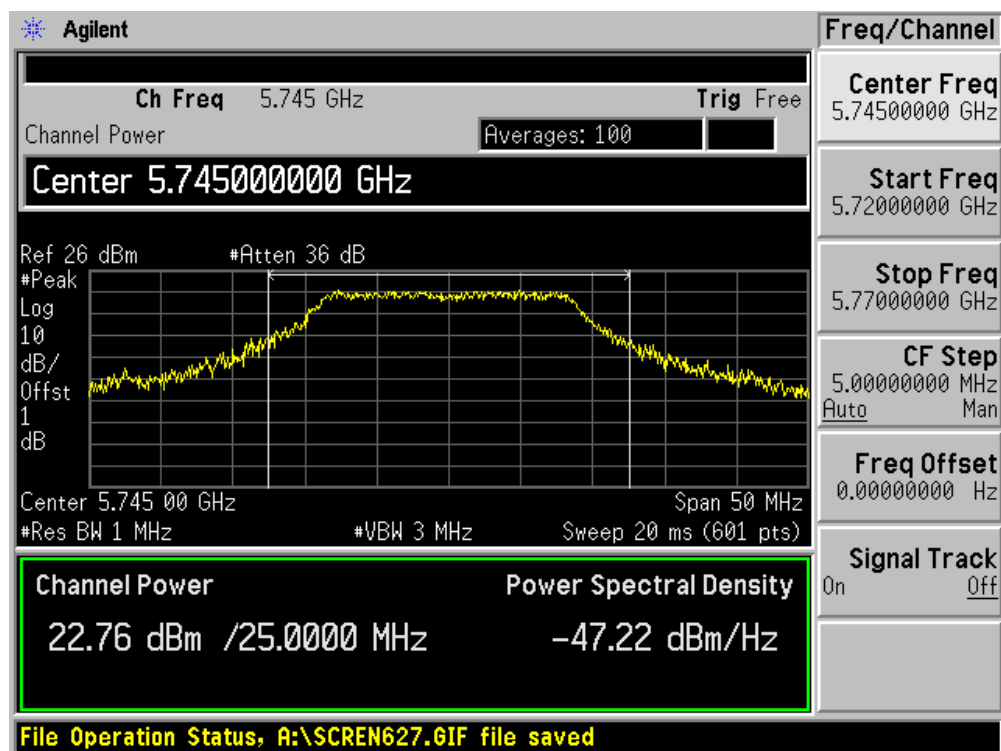


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz)(2X)

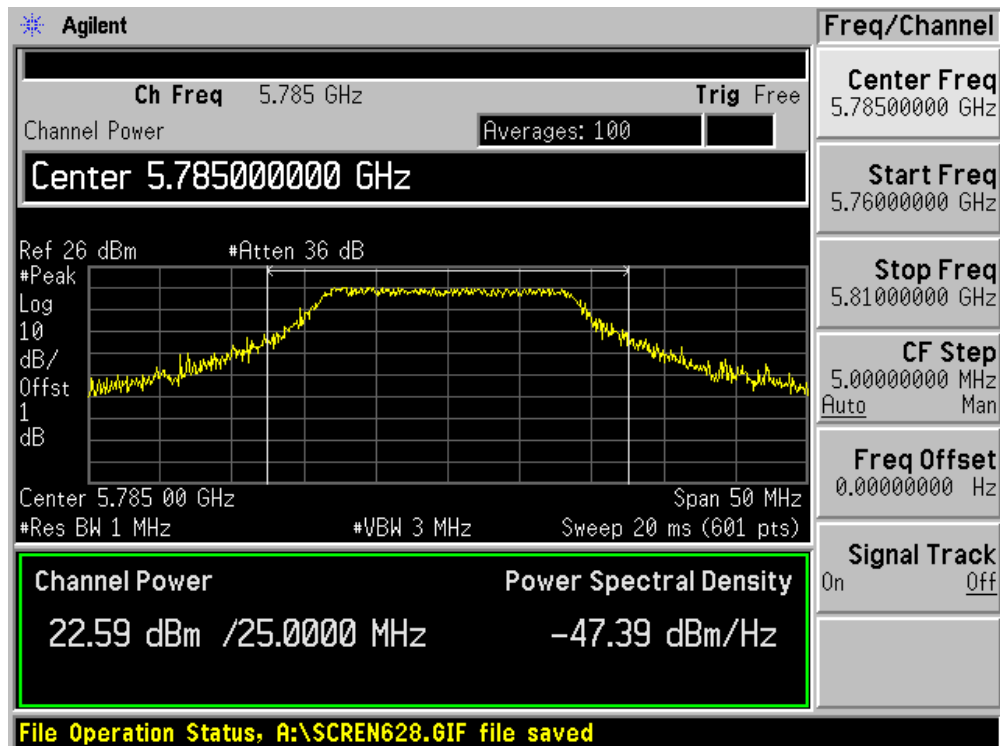
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	22.76	22.65	25.72	30.00	Pass
157	5785	22.59	22.68	25.65	30.00	Pass
165	5825	22.44	22.71	25.59	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

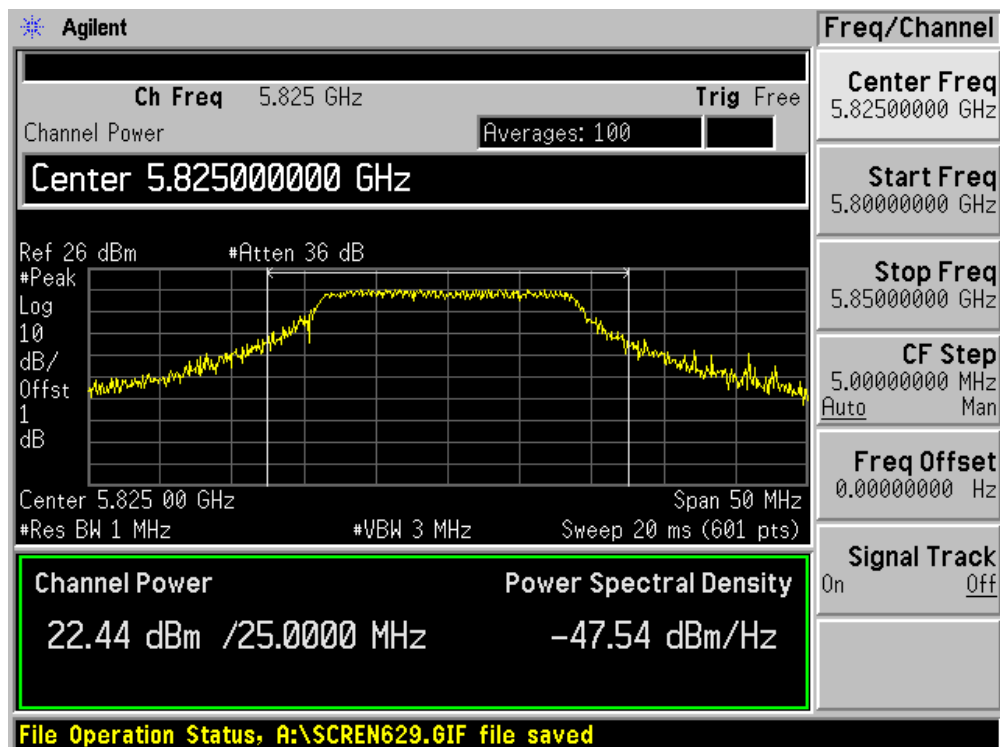
Channel 149 (5745MHz) - Chain 010



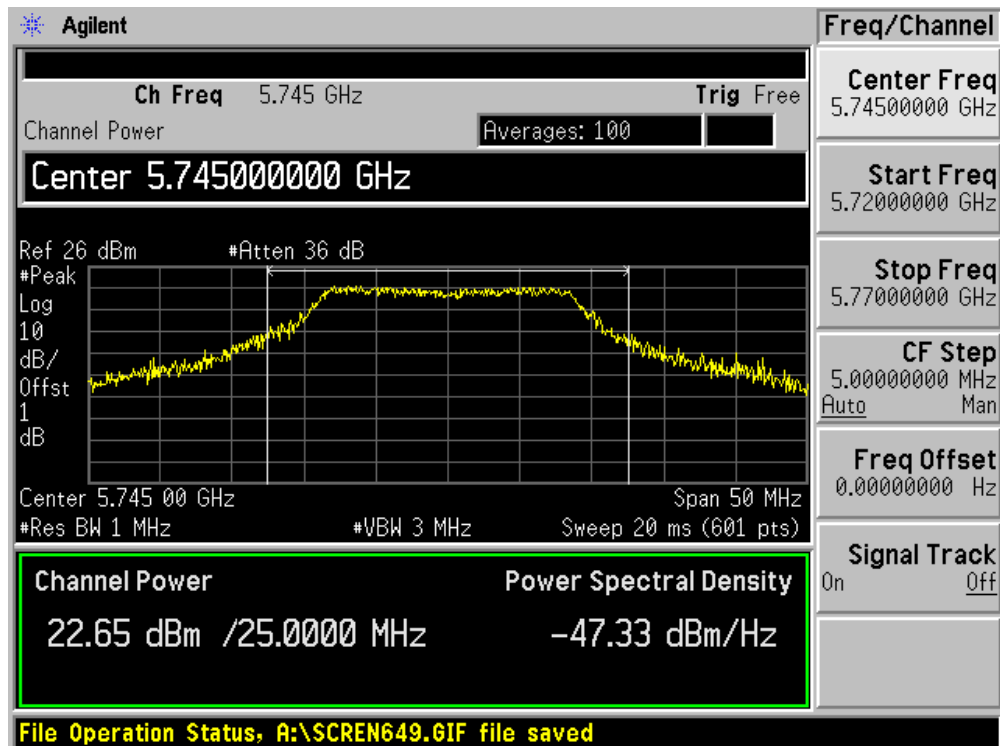
Channel 157 (5785MHz) - Chain 010



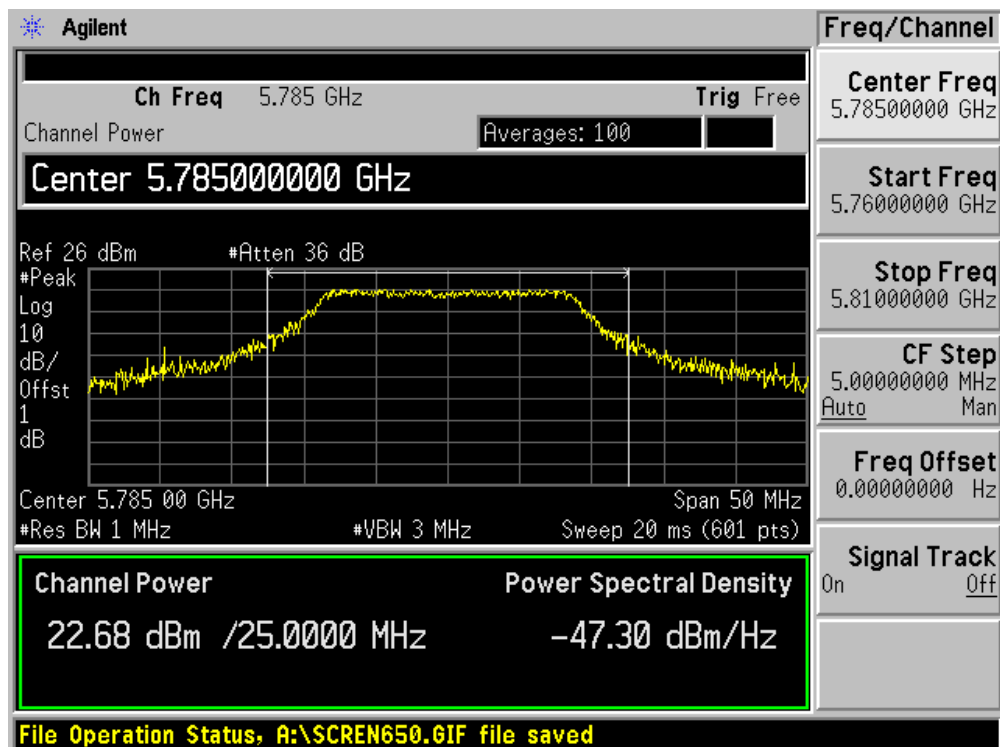
Channel 165 (5825MHz) - Chain 010



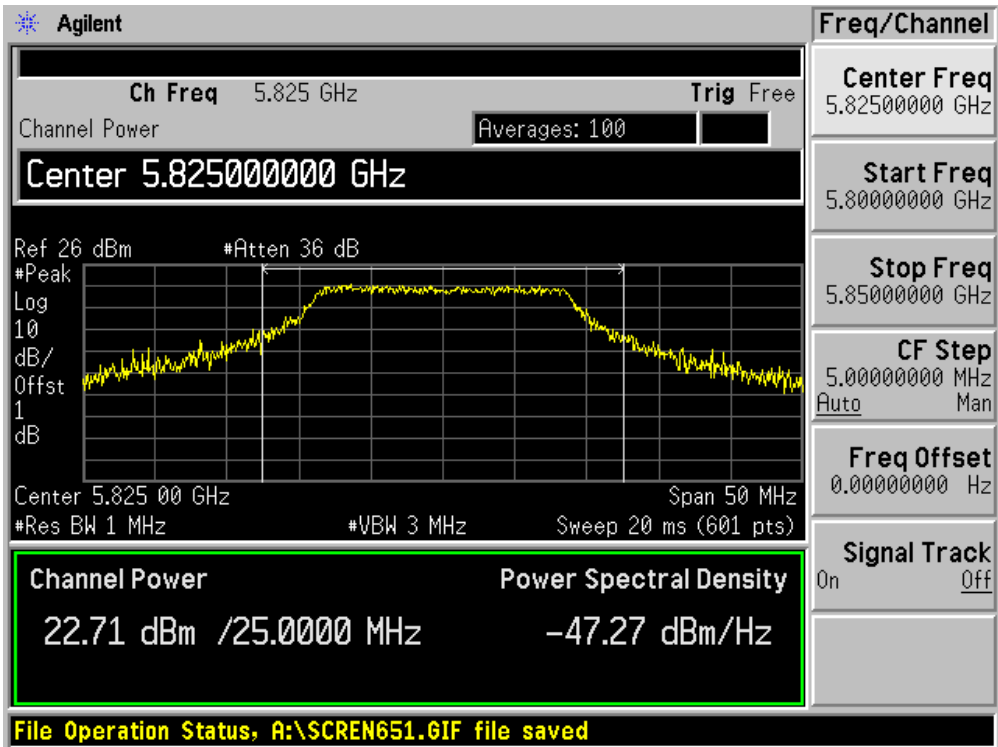
Channel 149 (5745MHz) - Chain 100



Channel 157 (5785MHz) - Chain 100



Channel 165 (5825MHz) - Chain 100

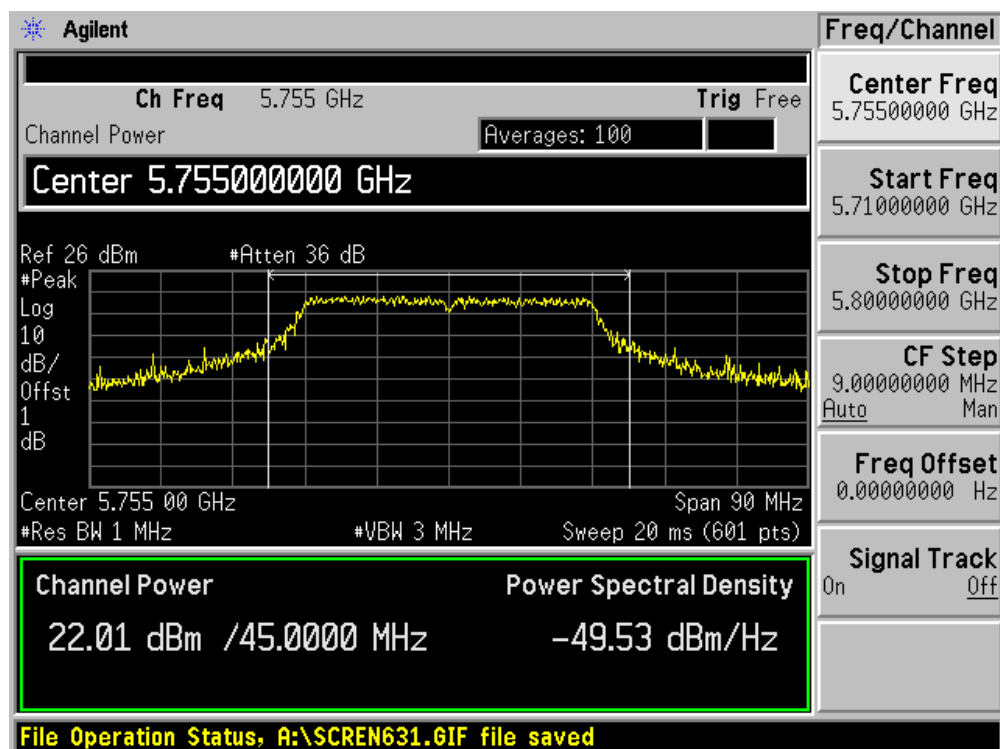


Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (2X)

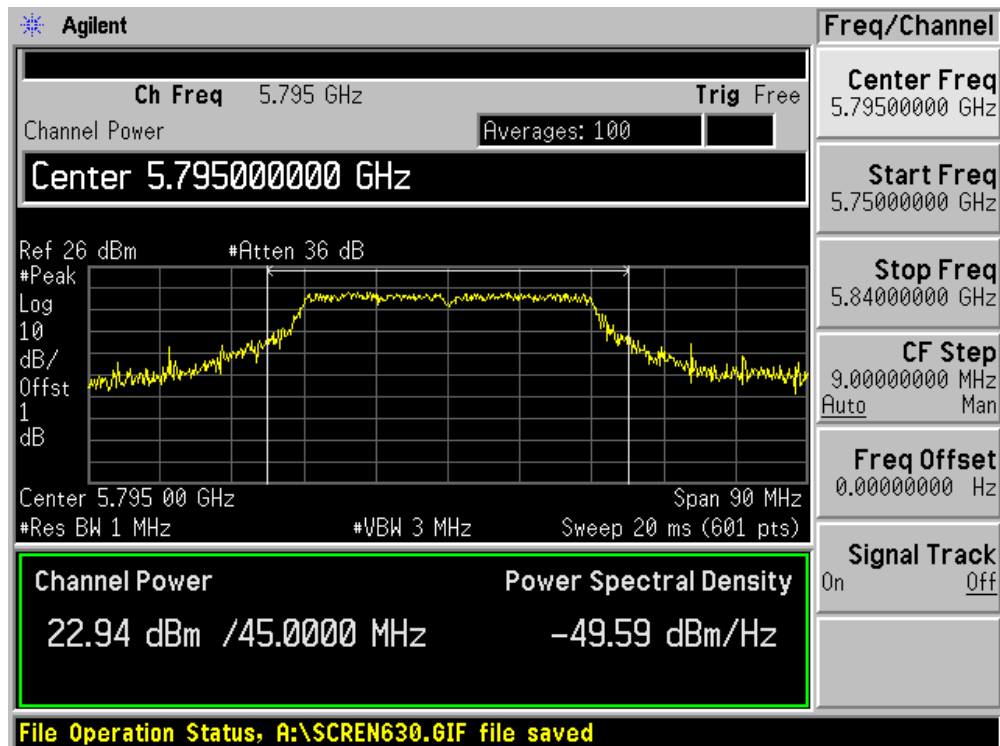
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	22.01	22.41	25.22	30.00	Pass
159	5795	22.94	22.65	25.81	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed point-to-point operation, therefore the limit is 30dBm.

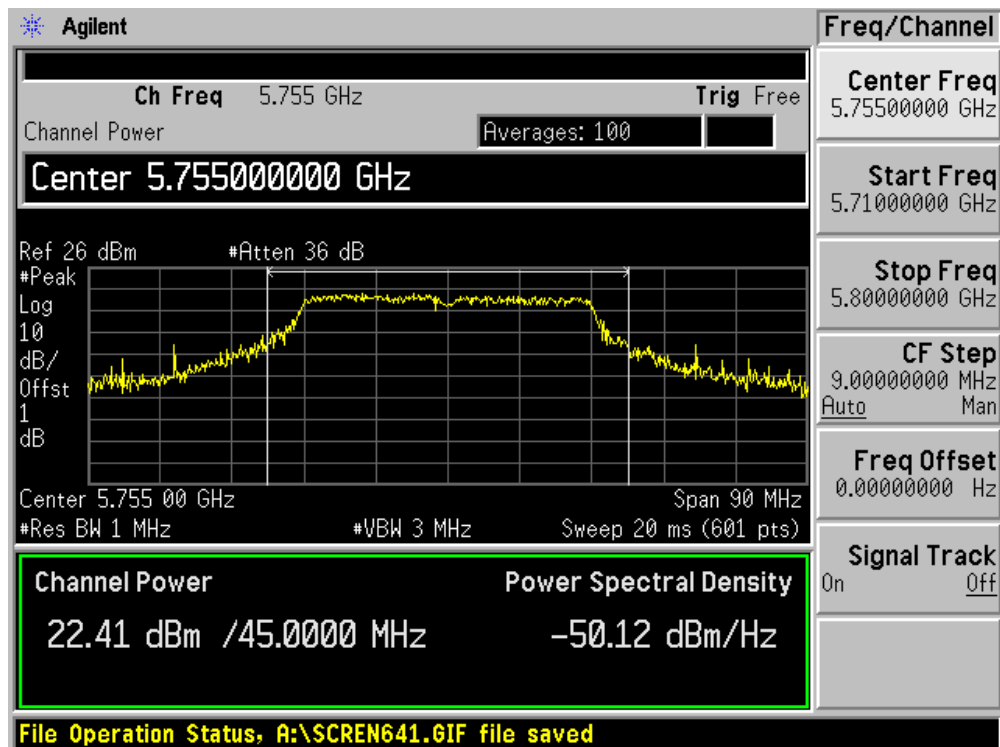
Channel 151 (5755MHz) - Chain 010



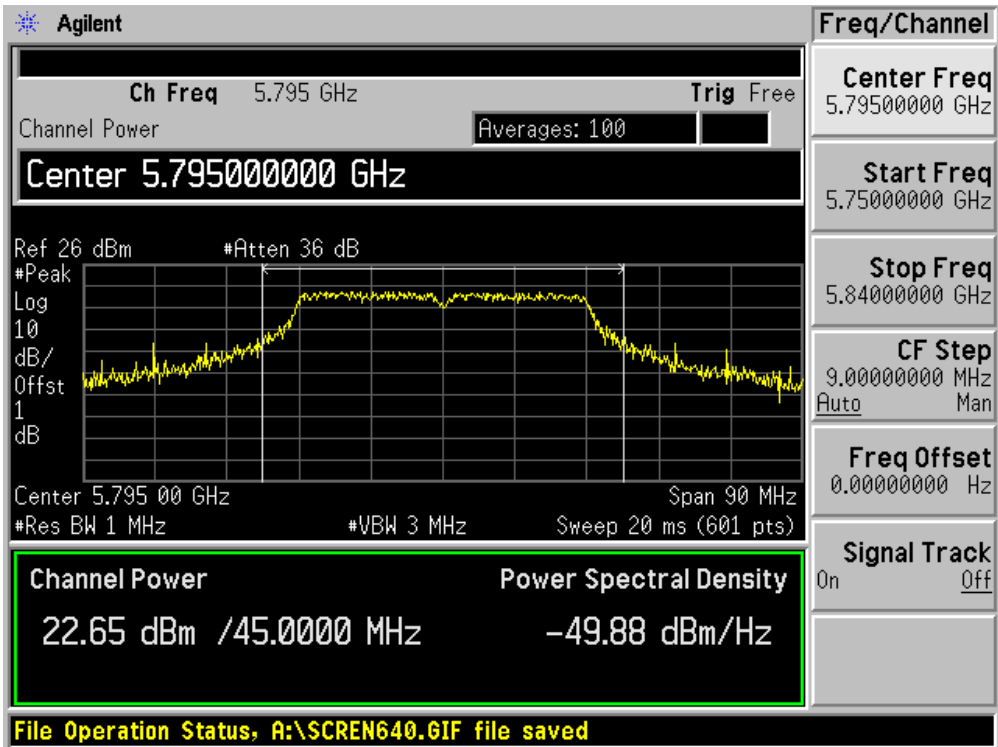
Channel 159 (5795MHz) - Chain 010



Channel 151 (5755MHz) - Chain 100



Channel 159 (5795MHz) - Chain 100



9. Power Spectral Density

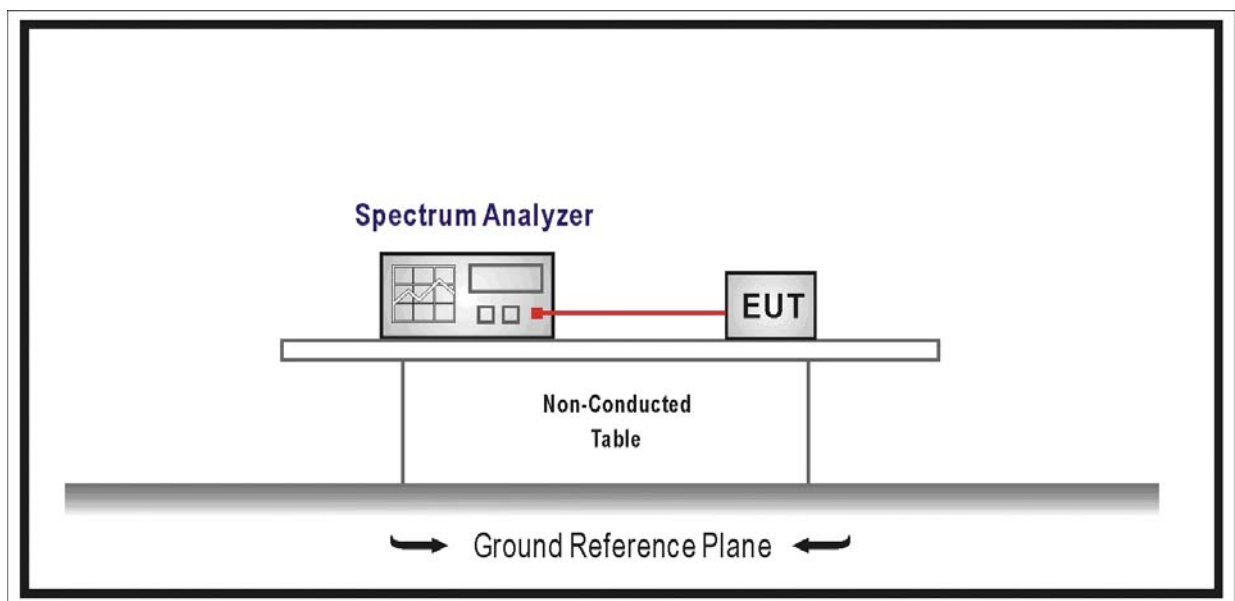
9.1. Test Equipment

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW \geq 9 kHz, Sweep time=Auto, Set detector=Peak detector.

9.5. Uncertainty

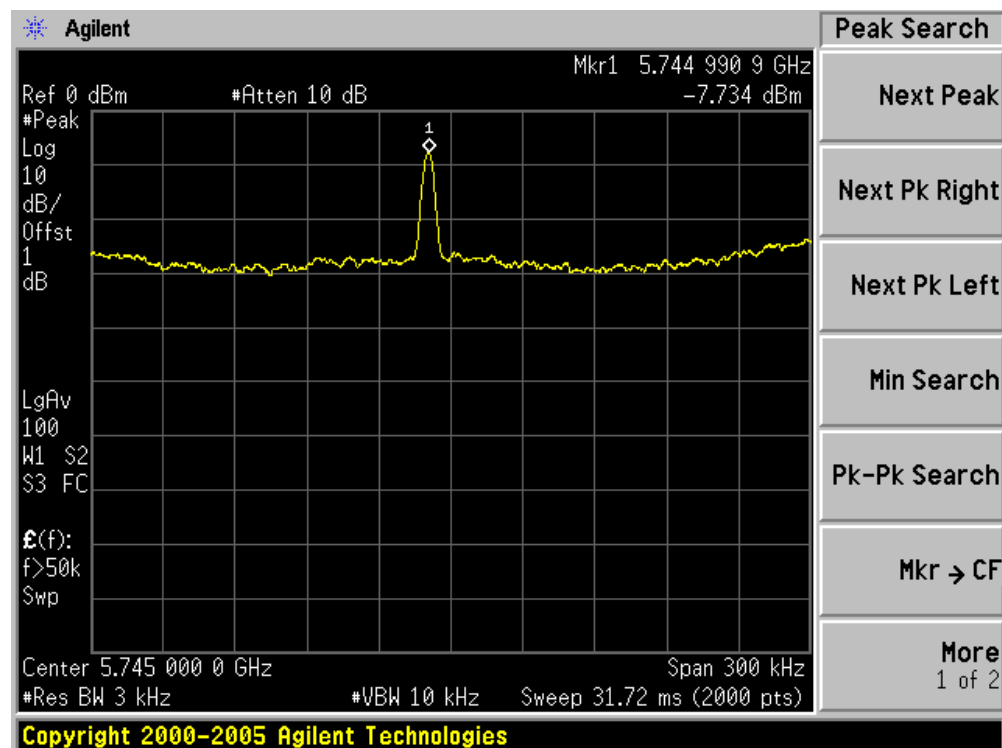
The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

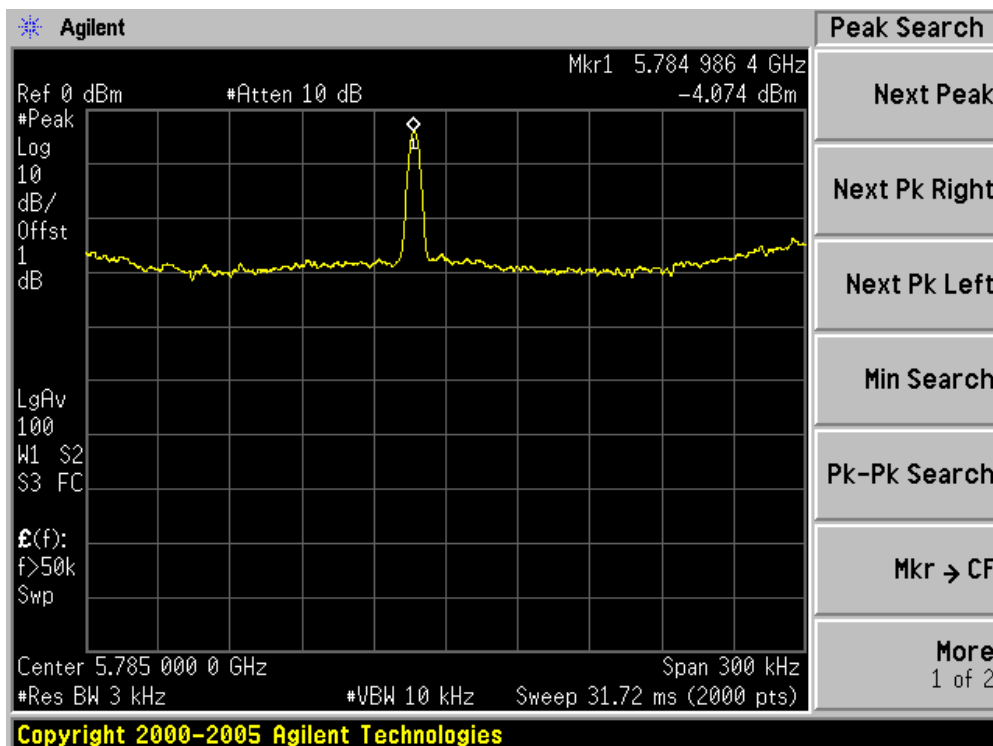
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	-7.734	N/A	-7.734	8	Pass
157	5785	-4.074	N/A	-4.074	8	Pass
165	5825	-11.388	N/A	-11.388	8	Pass

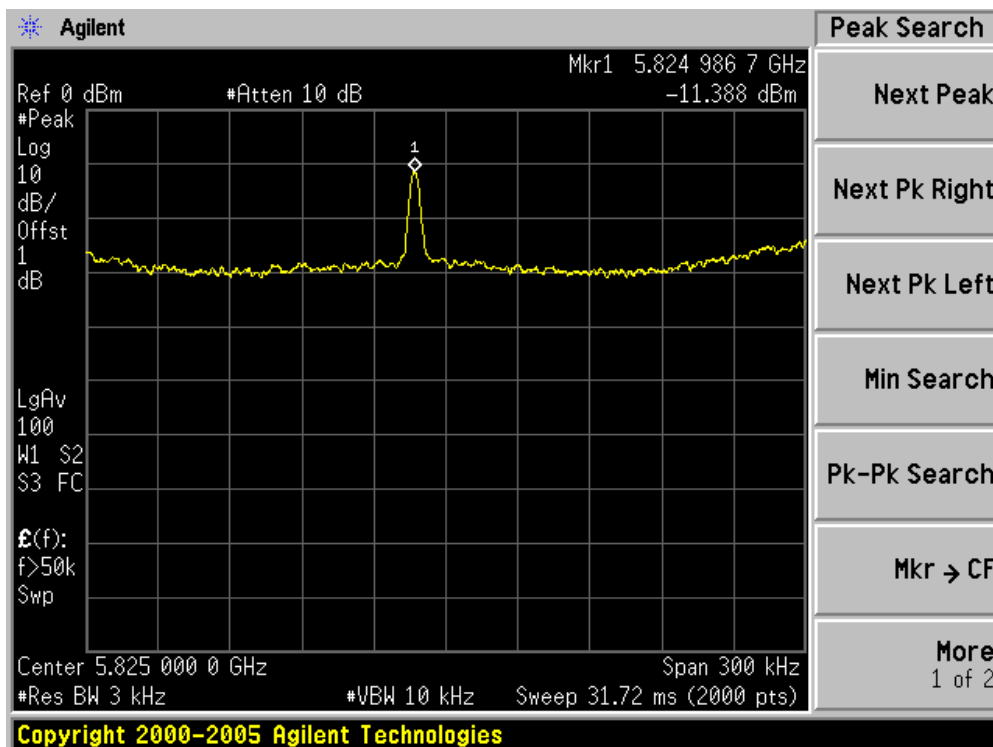
Channel 149 (5745MHz)



Channel 157 (5785MHz)



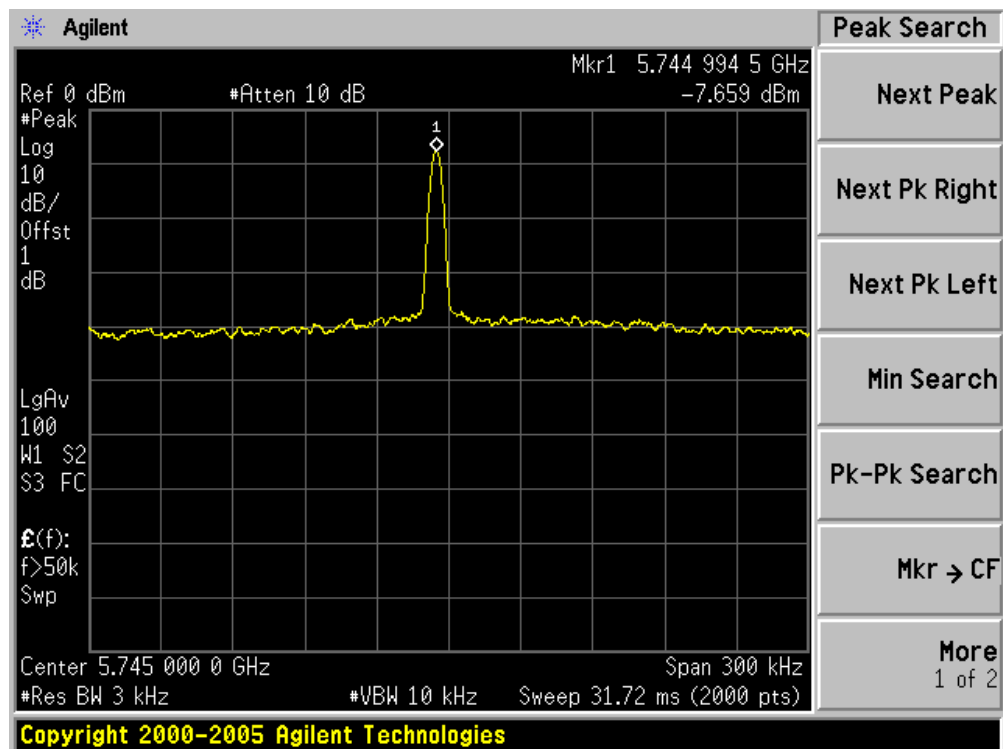
Channel 165 (5825MHz)



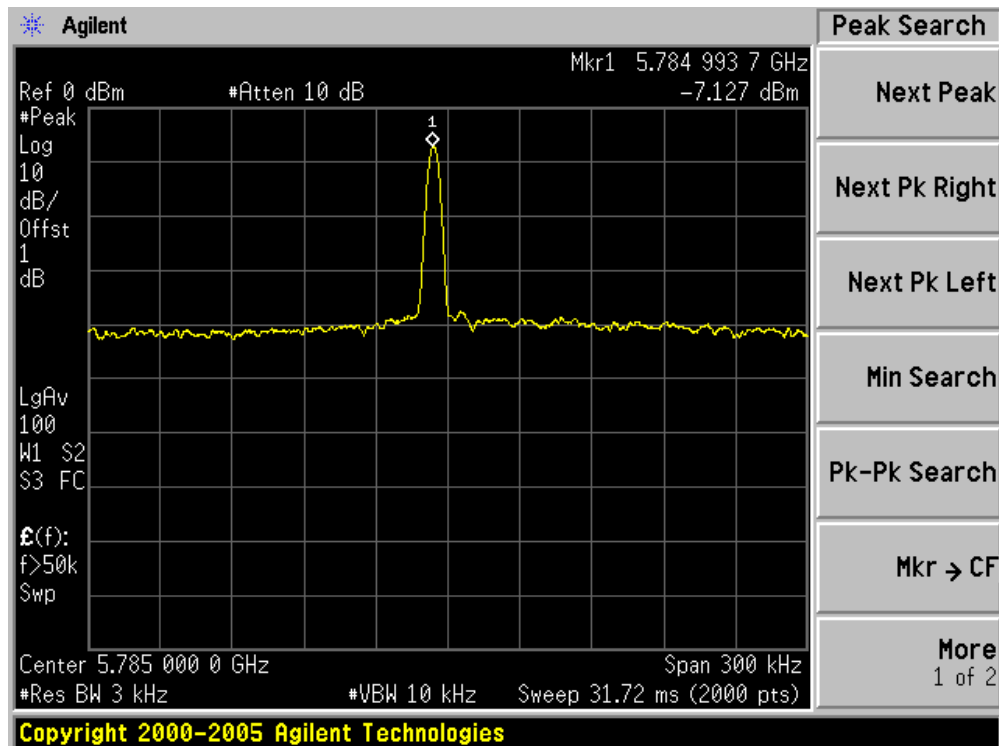
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 1X 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	N/A	-7.659	-7.659	8	Pass
157	5785	N/A	-7.127	-7.127	8	Pass
165	5825	N/A	-19.064	-19.064	8	Pass

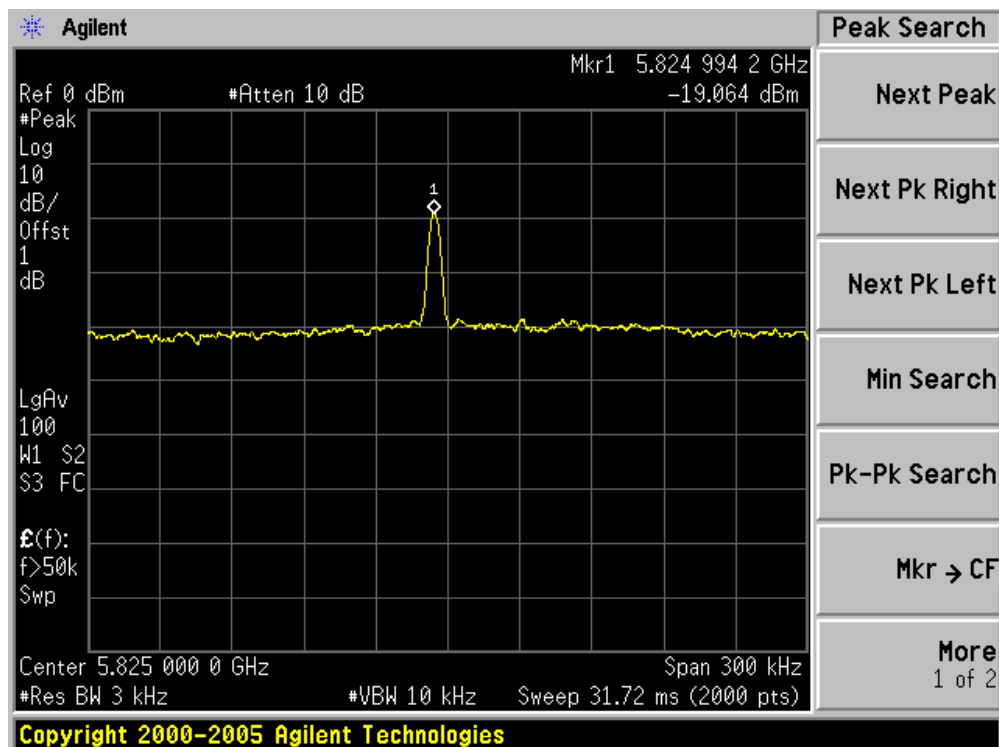
Channel 149 (5745MHz)



Channel 157 (5785MHz)



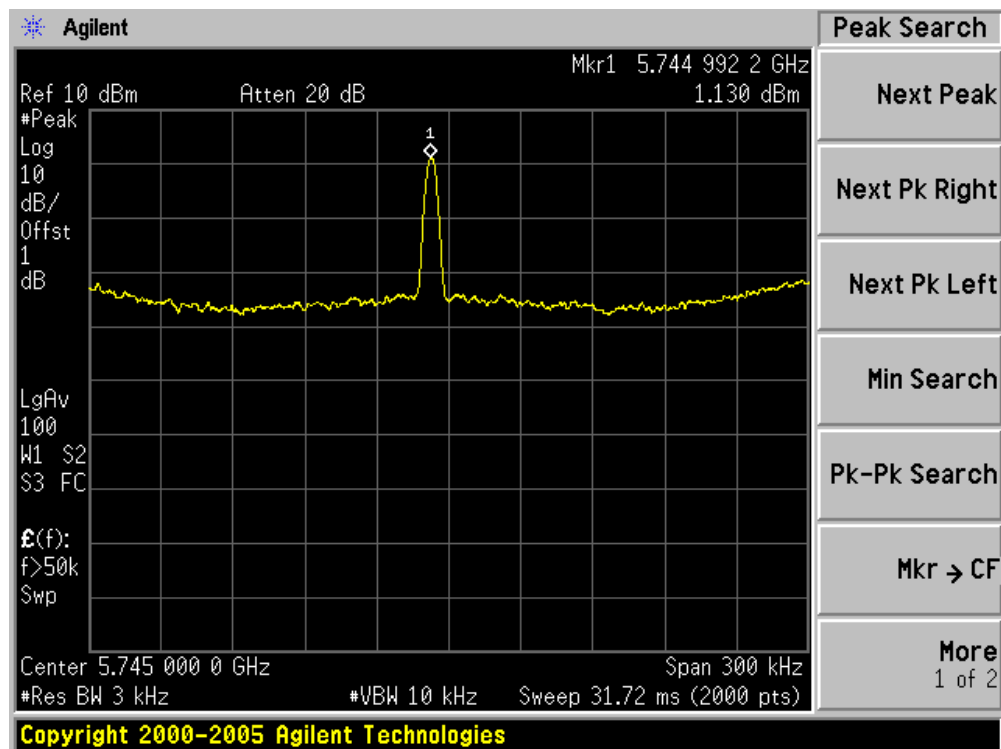
Channel 165 (5825MHz)



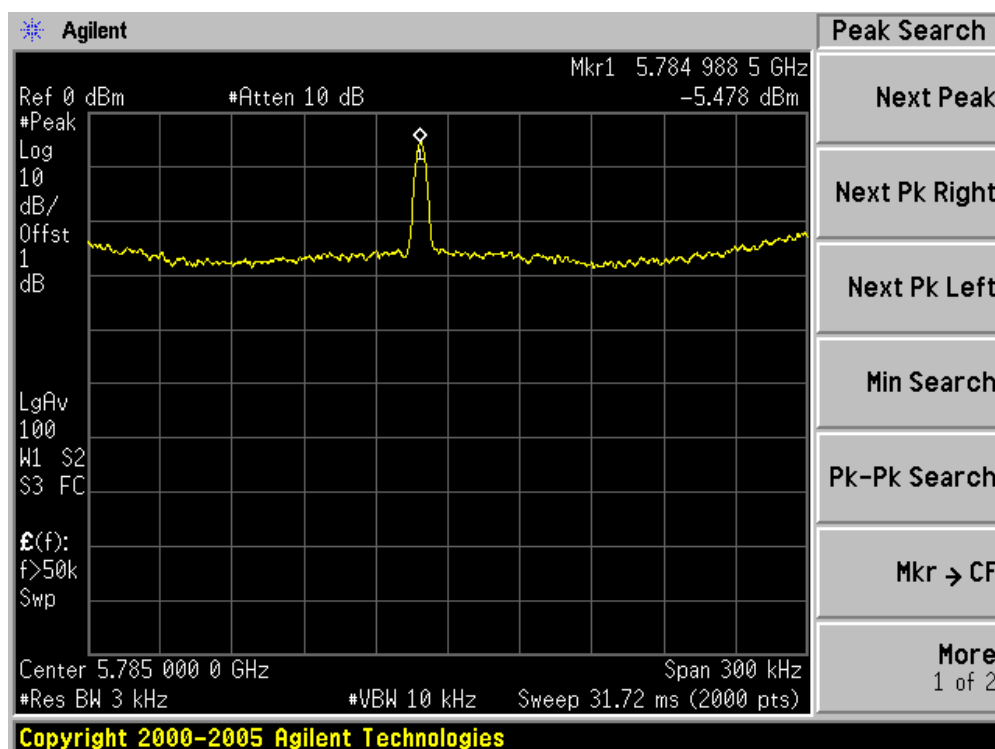
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	1.130	N/A	1.130	8	Pass
157	5785	-5.478	N/A	-5.478	8	Pass
165	5825	-10.391	N/A	-10.391	8	Pass

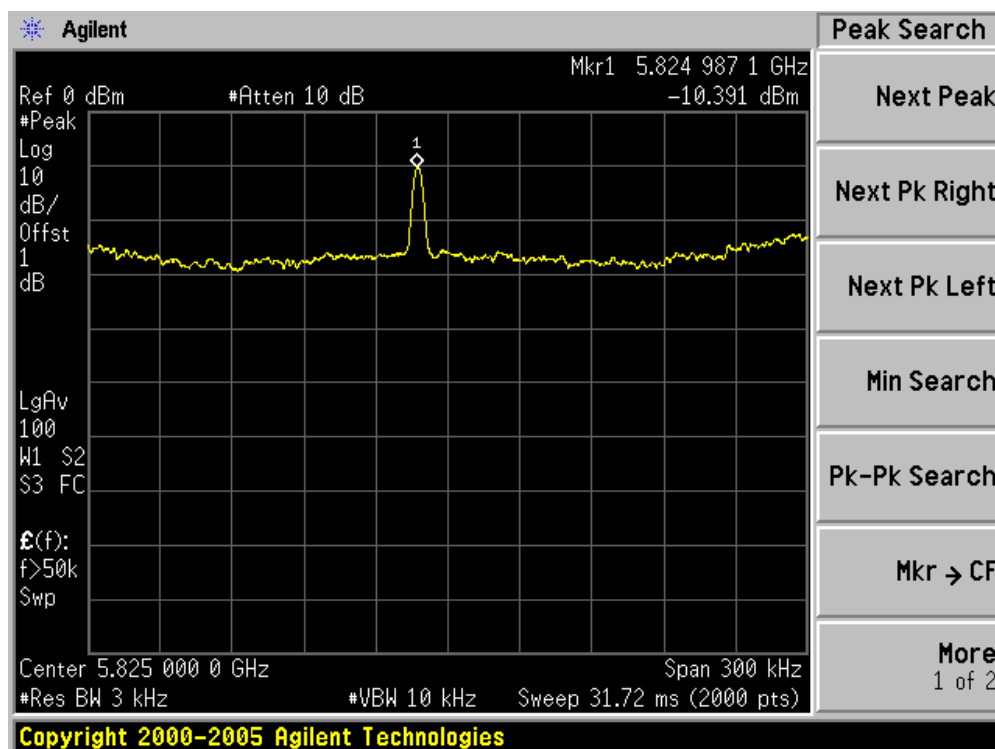
Channel 149 (5745MHz)



Channel 157 (5785MHz)



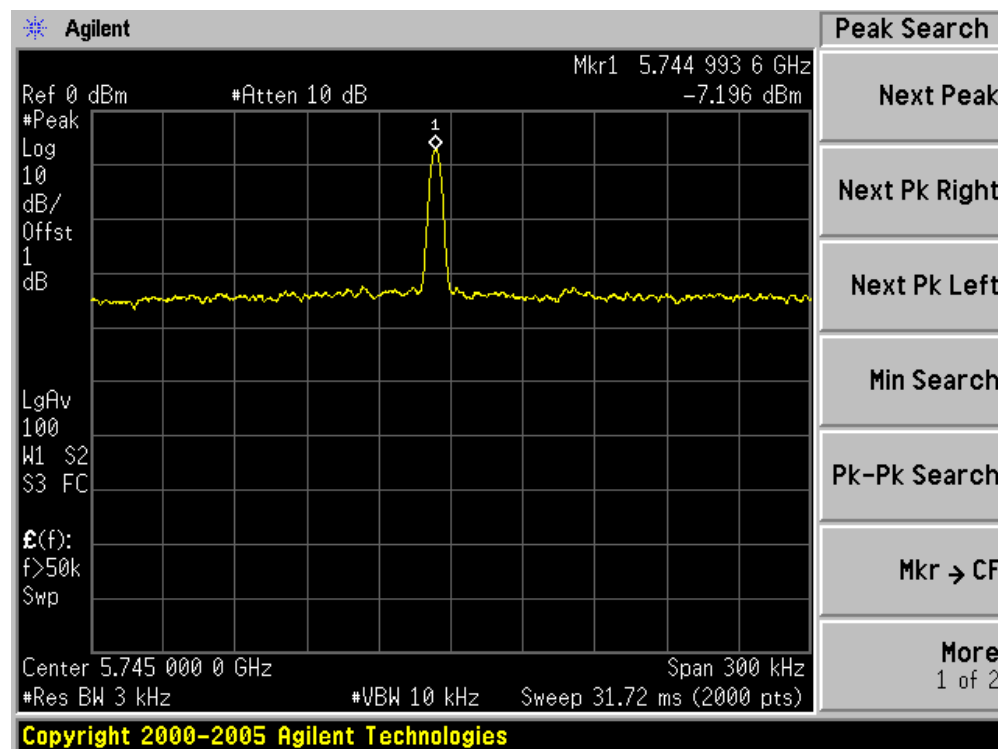
Channel 165 (5825MHz)



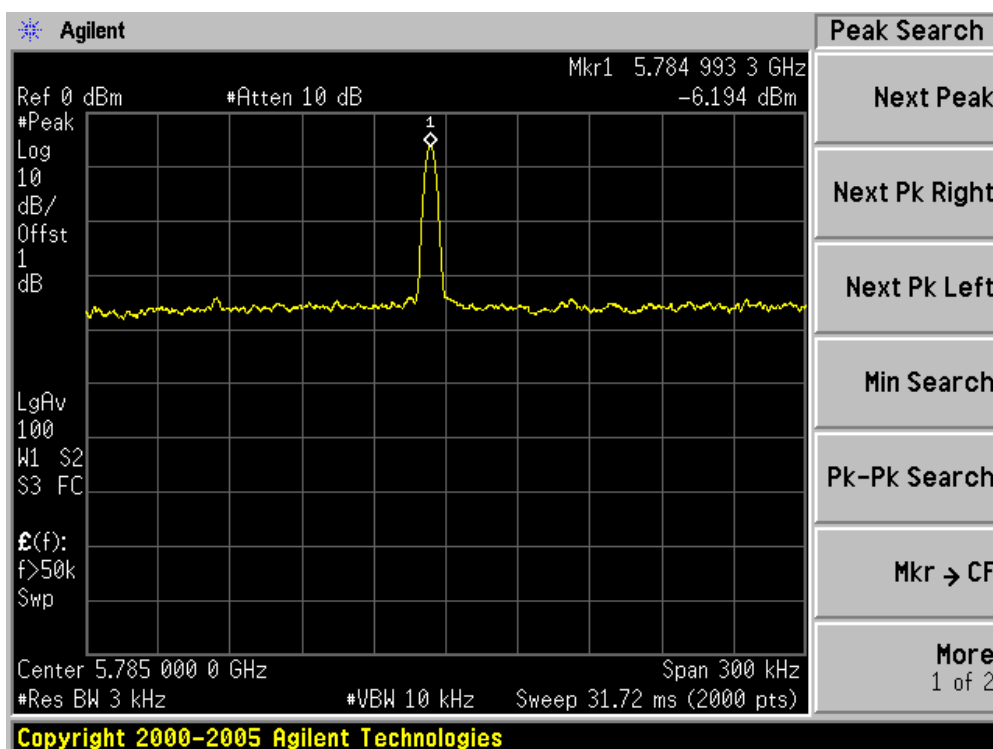
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 1X 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	N/A	-7.196	-7.196	8	Pass
157	5785	N/A	-6.194	-6.194	8	Pass
165	5825	N/A	-10.259	-10.259	8	Pass

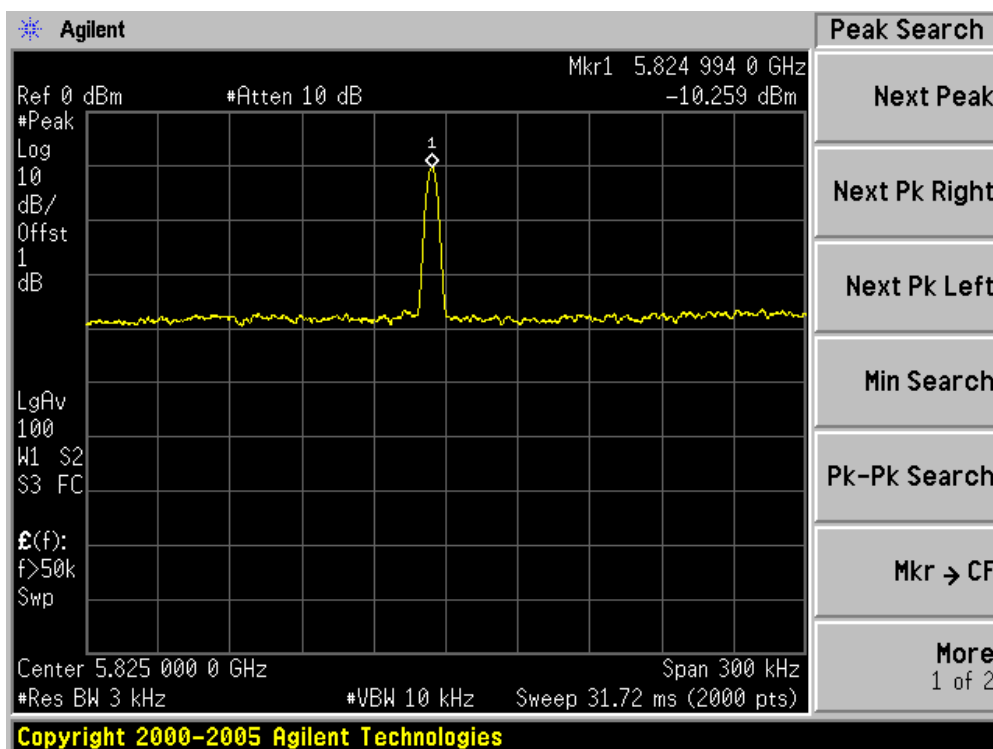
Channel 149 (5745MHz)



Channel 157 (5785MHz)



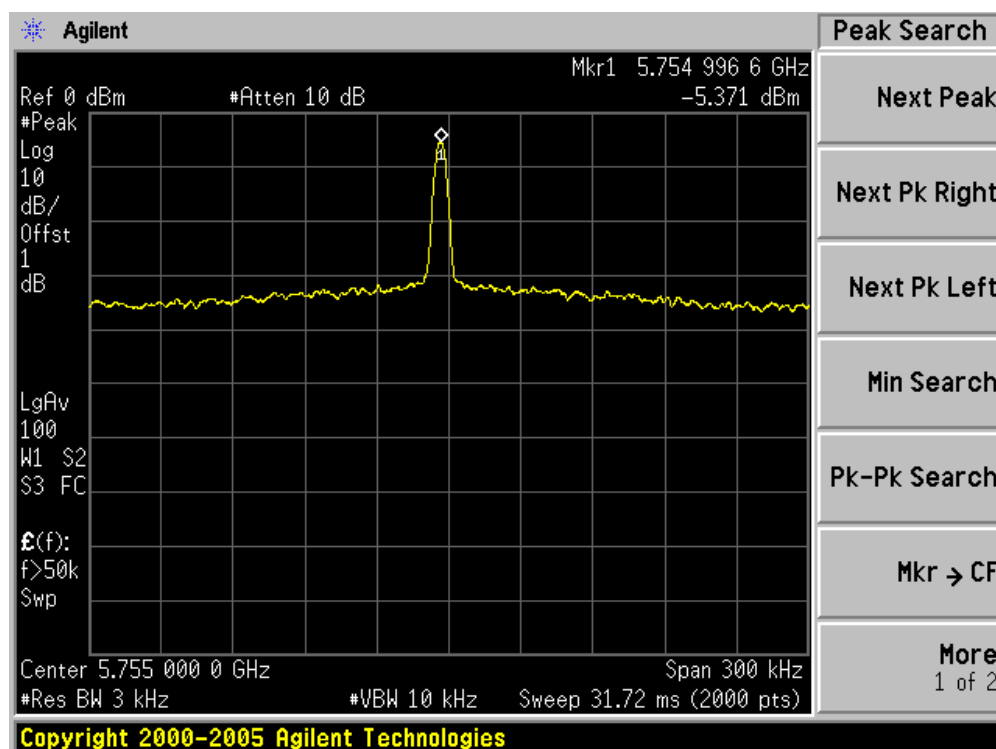
Channel 165 (5825MHz)



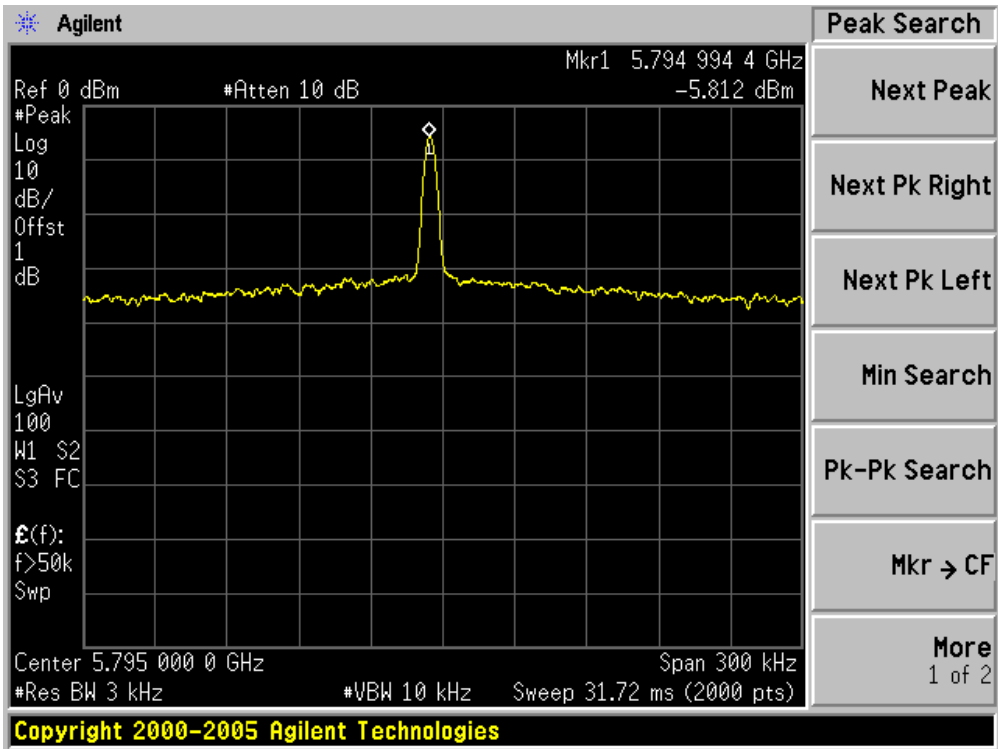
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	-5.371	N/A	-5.371	8	Pass
159	5795	-5.812	N/A	-5.812	8	Pass

Channel 151 (5755MHz)



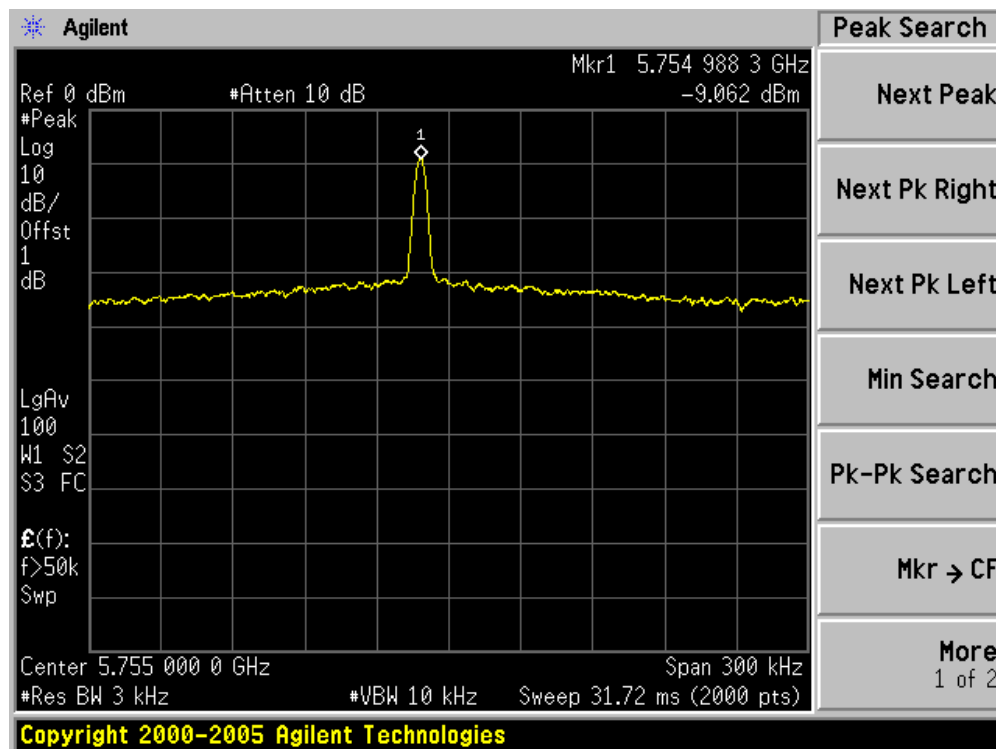
Channel 159 (5795MHz)



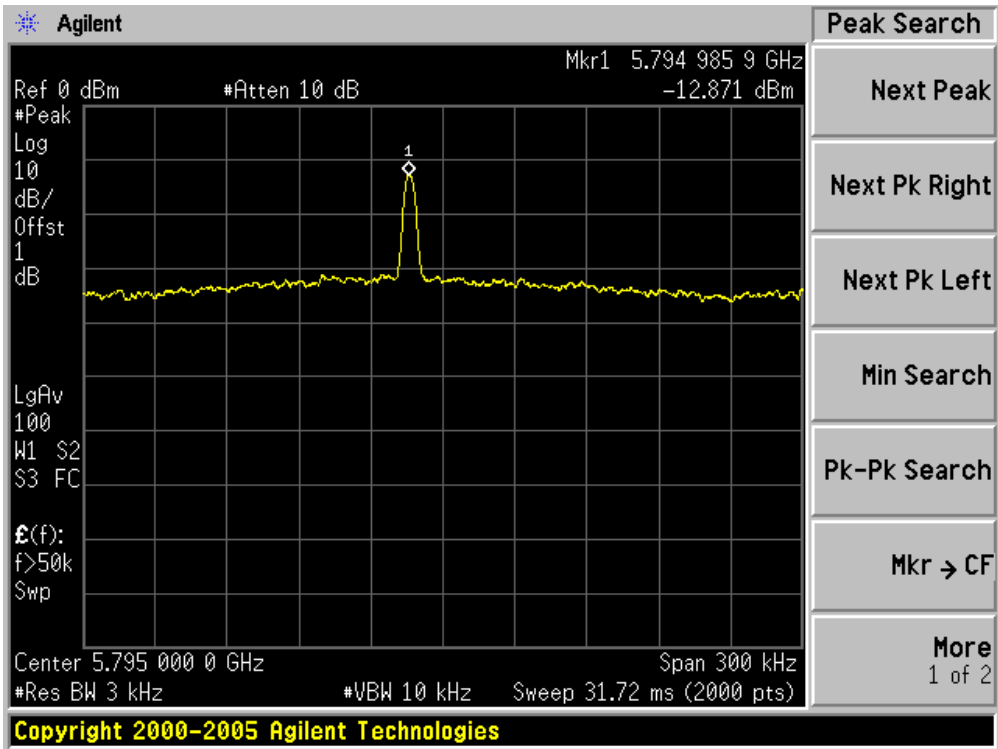
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 1X 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	N/A	-9.062	-9.062	8	Pass
159	5795	- N/A	-12.871	-12.871	8	Pass

Channel 151 (5755MHz)



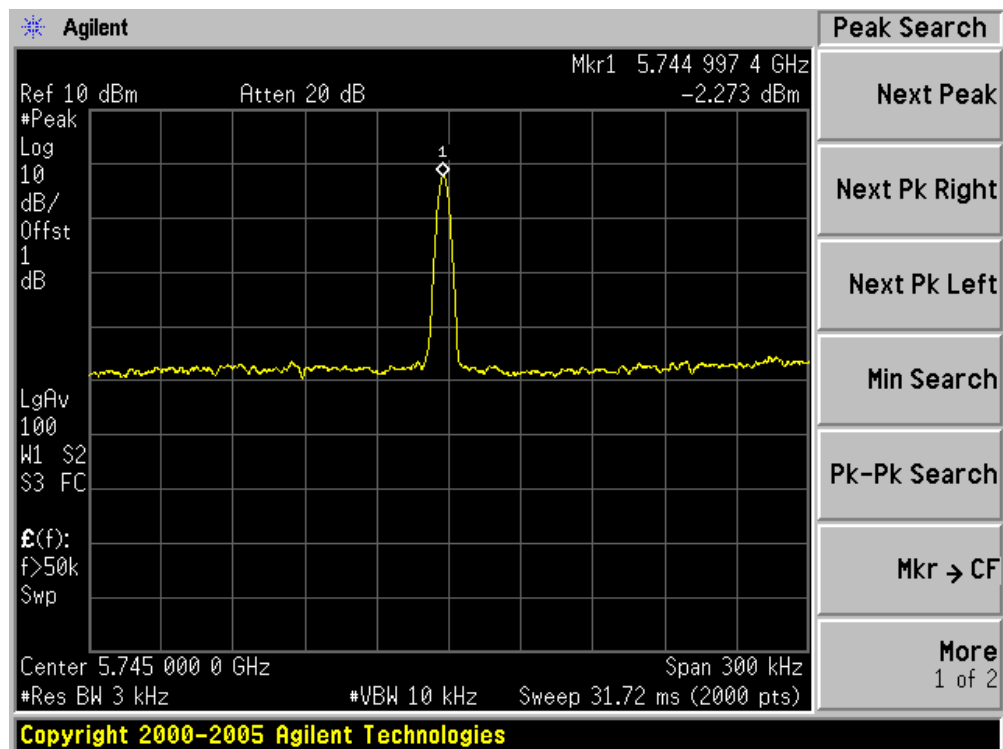
Channel 159 (5795MHz)



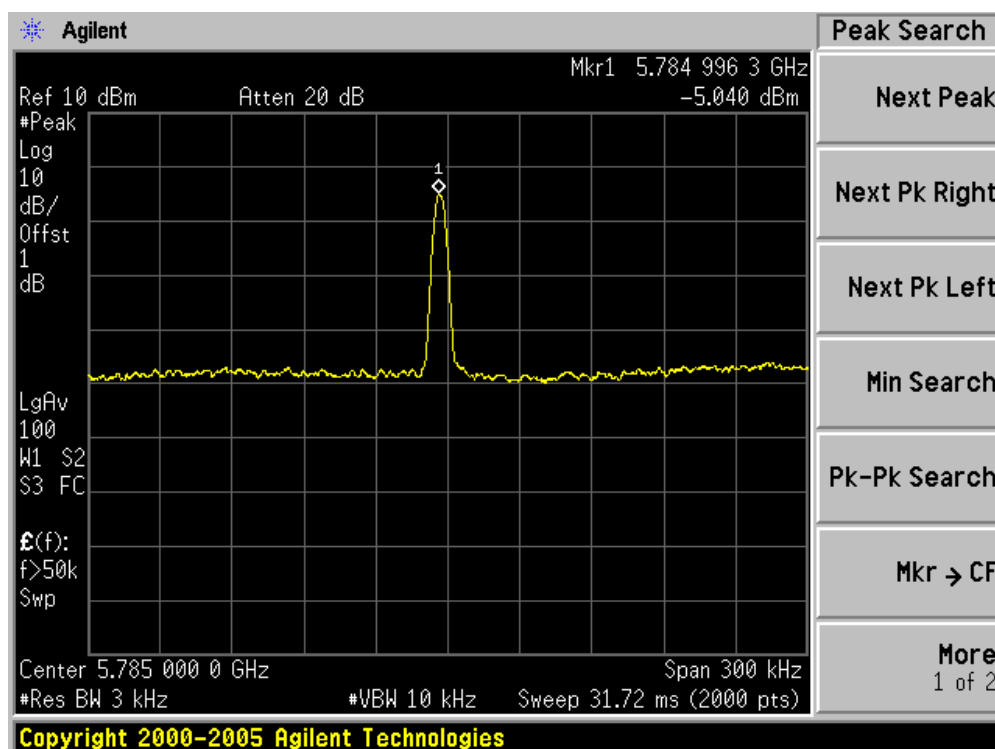
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (2X)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
149	5745	-2.273	-3.501	0.17	8	Pass
157	5785	-5.040	-10.206	-3.89	8	Pass
165	5825	-2.284	-16.221	-2.11	8	Pass

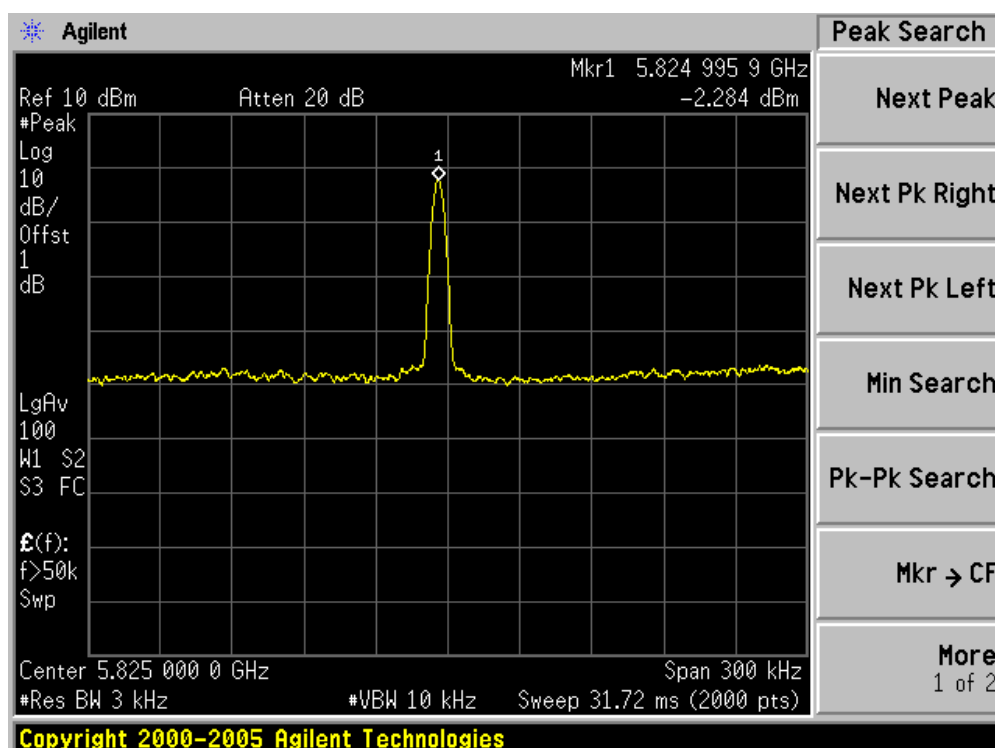
Channel 149 (5745MHz) - Chain 010



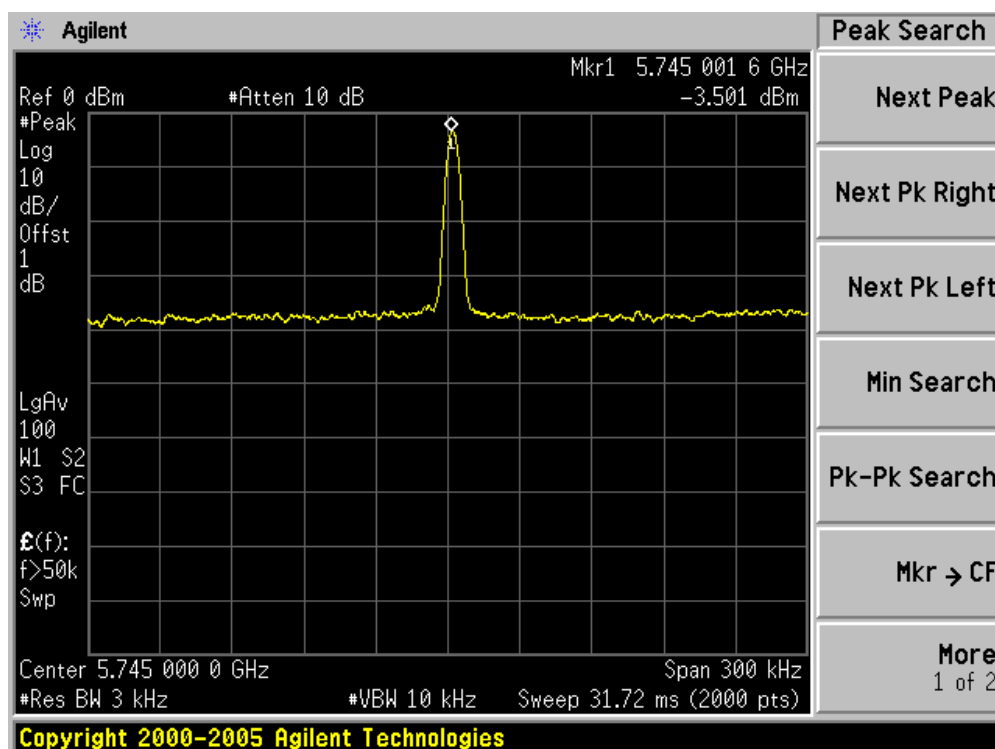
Channel 157 (5785MHz) - Chain 010



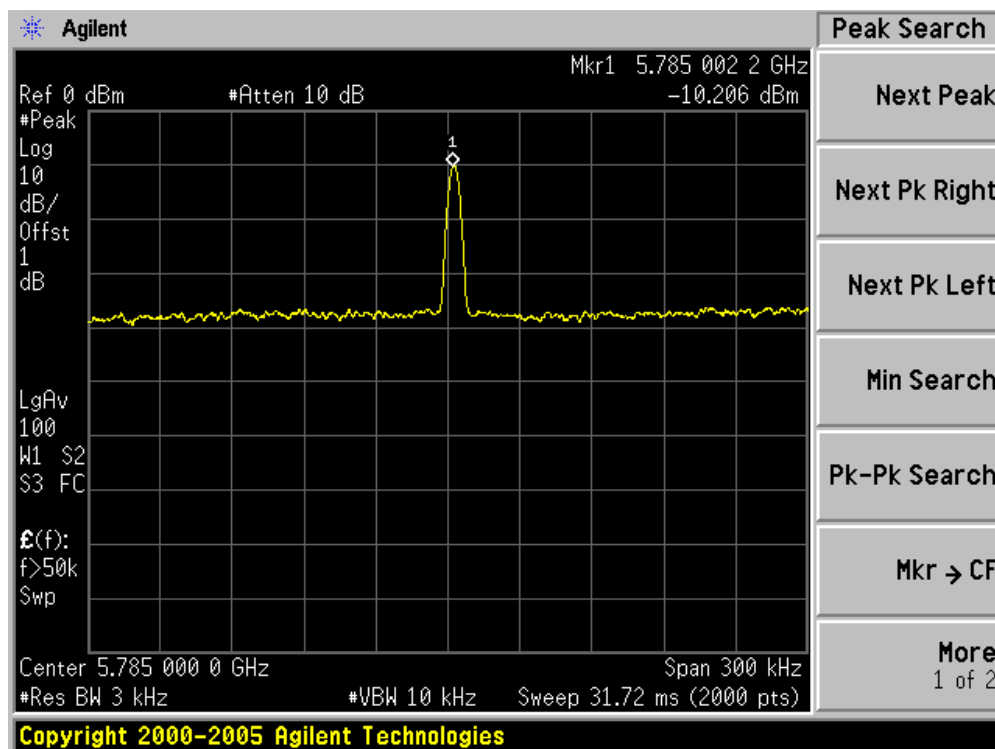
Channel 165 (5825MHz) - Chain 010



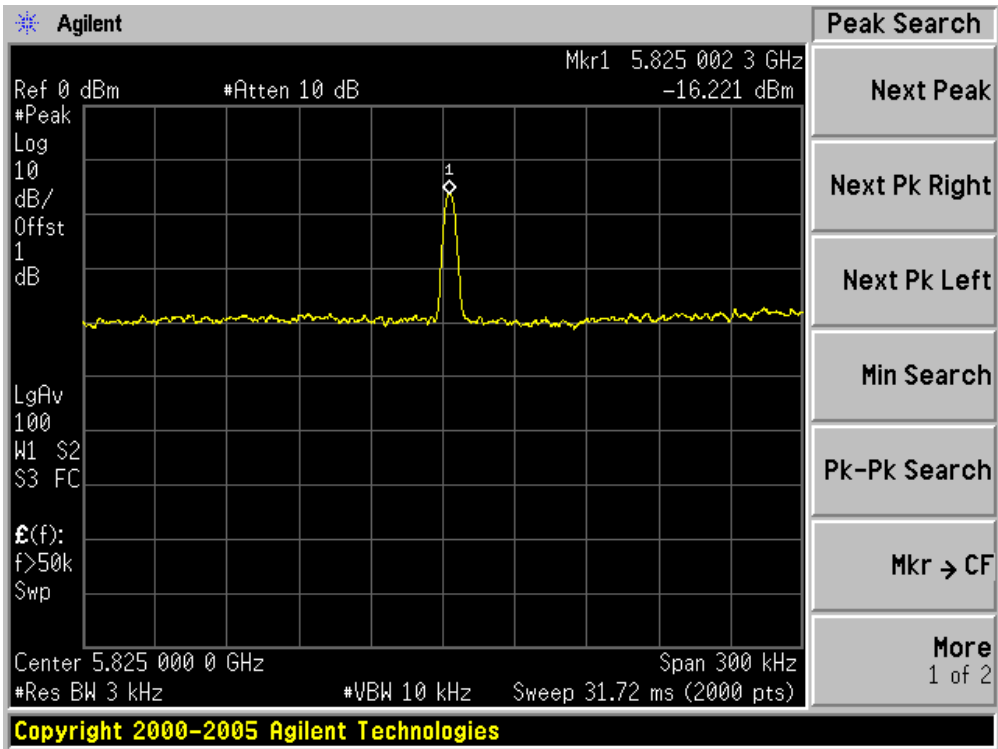
Channel 149 (5745MHz) - Chain 100



Channel 157 (5785MHz) - Chain 100



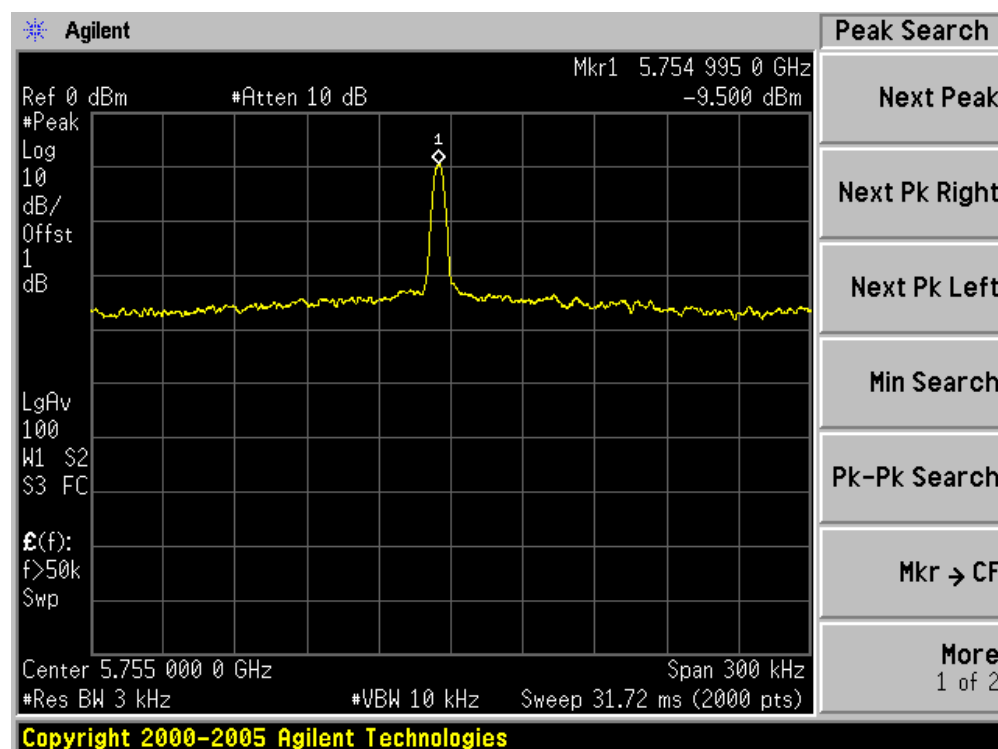
Channel 165 (5825MHz) - Chain 100



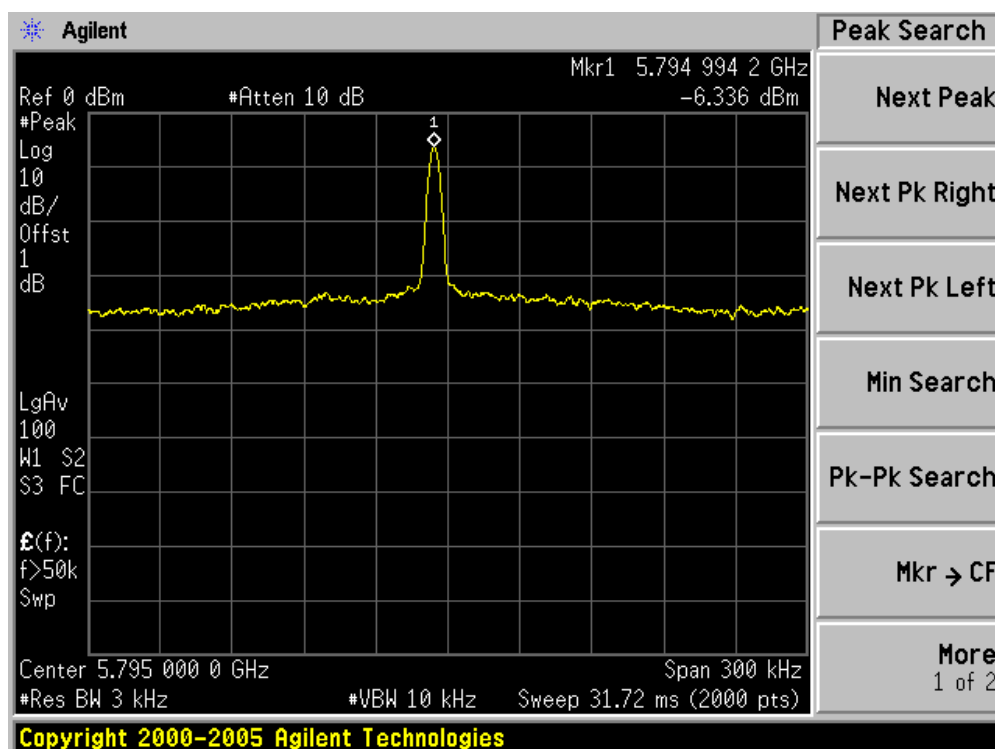
Product	:	WIRELESS-A/N 26DBM NETWORK MINI PCI ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (2X)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain 010	Chain 100			
151	5755	-9.500	-7.742	-5.52	8	Pass
159	5795	-6.336	-13.956	-5.64	8	Pass

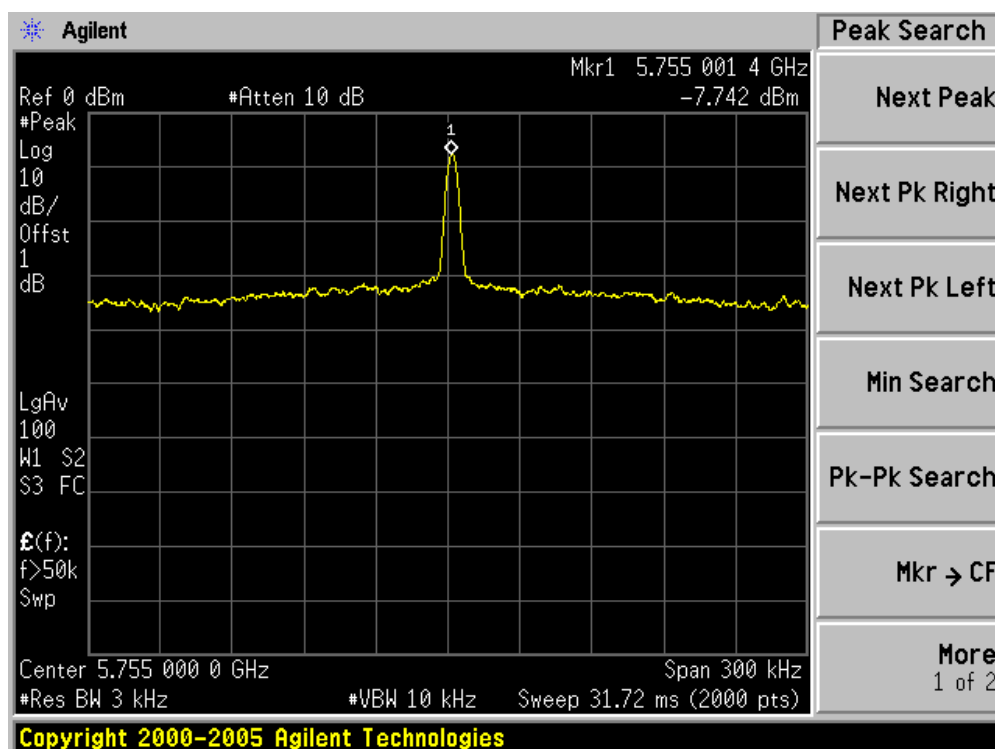
Channel 151 (5755MHz) - Chain 010



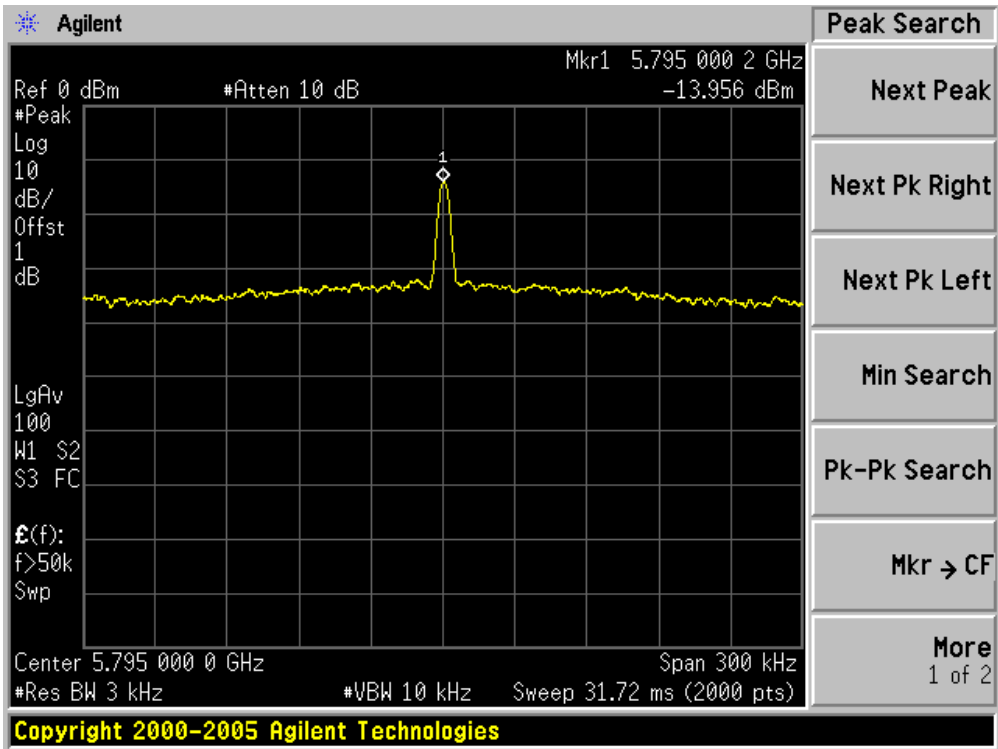
Channel 159 (5795MHz) - Chain 010



Channel 151 (5755MHz) - Chain 100



Channel 159 (5795MHz) - Chain 100

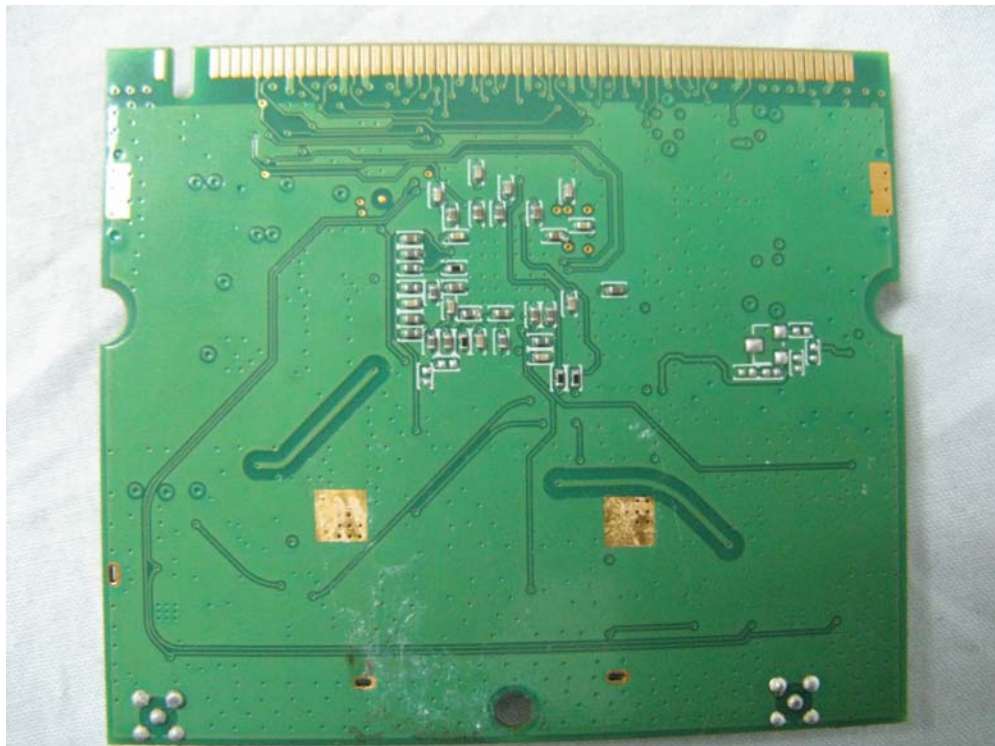


9.7. Attachment**➤ EUT Photograph**

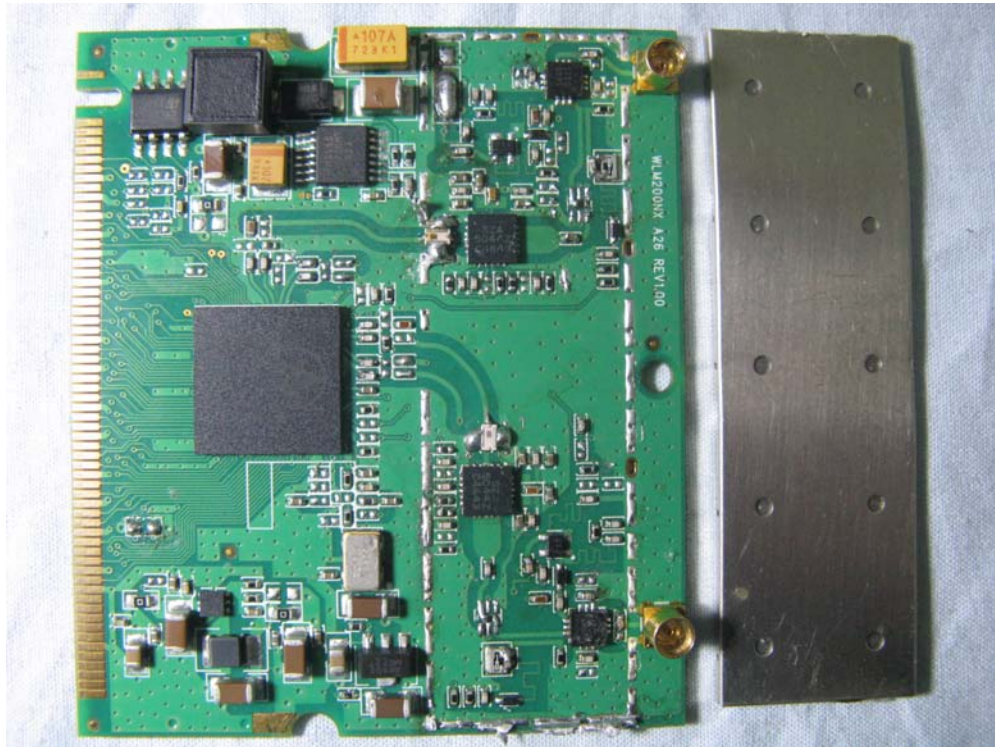
(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo

