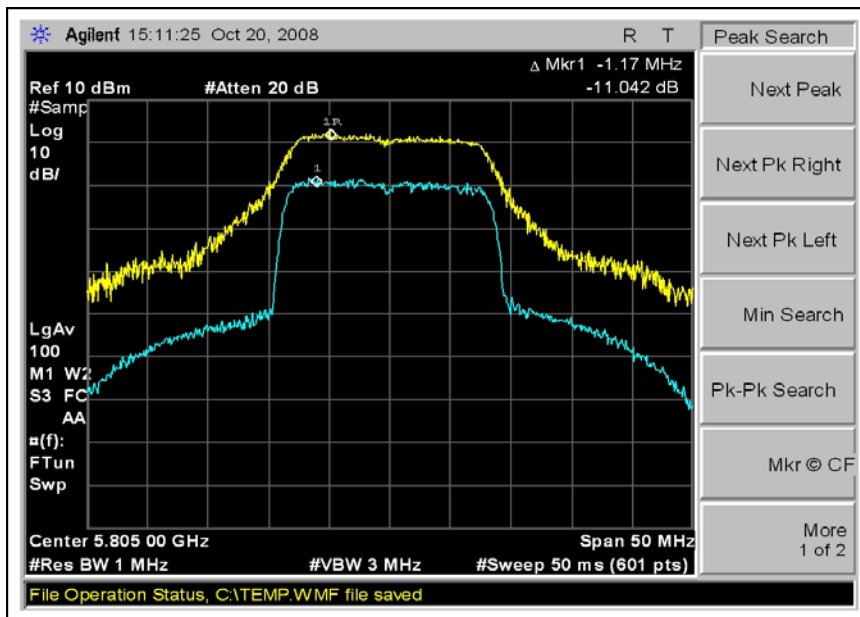
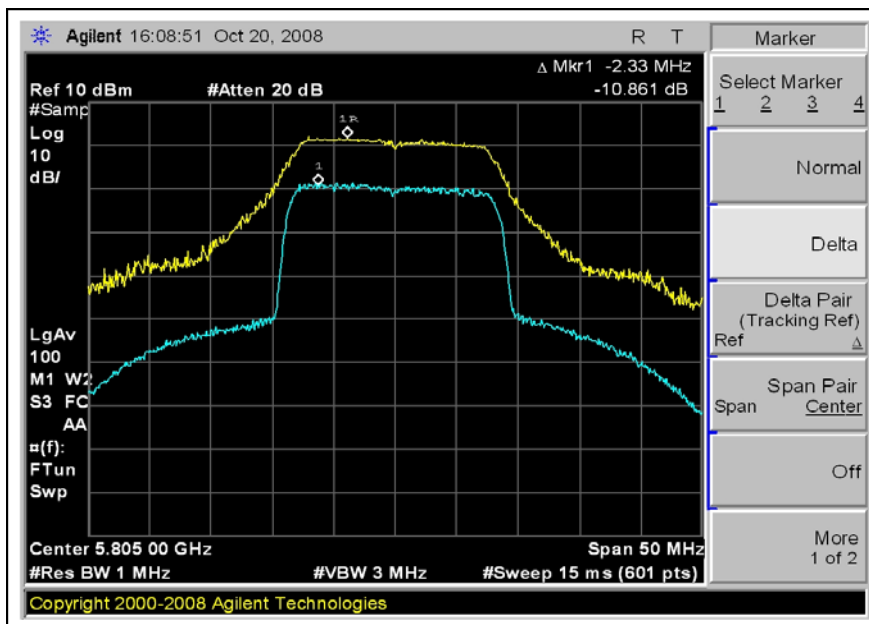


**FCC 15.407(a)(6) PEAK EXCLUSION 802.11a
CHANNEL 161 ANTENNA A**



**FCC 15.407(a)(6) PEAK EXCLUSION 802.11a
CHANNEL 161 ANTENNA B**



FCC 15.407(b)(1) UNDESIRABLE EMISSION LIMITS

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b1**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 09:38:00

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliacx Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp 1-40GHz	00323	02/05/2008	02/05/2010	02810
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A - Channel 36 - 5180 MHz. 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Heliac Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	T5 dB	T6 dB	T7 dB	T8 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	10362.200 M	64.4	-36.2	+0.7	+38.0	+8.8	+0.0	+0.0	+0.0	+0.0	+0.0	75.7	80.0	-4.3	Vert
2	5184.930M	95.5	-36.7	+0.5	+33.7	+6.1	+0.0	+0.0	+0.0	+0.0	+0.0	99.1	107.0	-7.9	Vert
3	5181.870M	95.3	-36.7	+0.5	+33.7	+6.1	+0.0	+0.0	+0.0	+0.0	+0.0	98.9	107.0	-8.1	Horiz
4	10357.950 M	57.0	-36.2	+0.7	+38.0	+8.8	+0.0	+0.0	+0.0	+0.0	+0.0	68.3	80.0	-11.7	Horiz
5	2433.000M	73.9	-37.9	+0.3	+28.1	+3.7	+0.0	+0.0	+0.0	+0.0	+0.0	68.1	80.0	-11.9	Vert
6	15543.000 M	50.5	-34.6	+1.0	+38.0	+11.7	+0.0	+0.0	+0.0	+0.0	+0.0	66.6	80.0	-13.4	Vert
7	3453.000M	67.7	-37.4	+0.4	+31.0	+4.7	+0.0	+0.0	+0.0	+0.0	+0.0	66.4	80.0	-13.6	Vert
8	20723.000 M	58.2	+0.0 -26.0	+1.1 +41.3	+0.0 +0.0	+0.0 +1.6	+0.0	+0.0	+0.0	+0.0	-10.0	66.2	80.0	-13.8	Vert
9	1967.150M	72.1	-38.0	+0.3	+27.3	+3.3	+0.0	+0.0	+0.0	+0.0	+0.0	65.0	80.0	-15.0	Vert
10	5458.000M	57.9	-36.6	+0.5	+33.8	+6.2	+0.0	+0.0	+0.0	+0.0	+0.0	61.8	80.0	-18.2	Vert
11	1962.150M	68.8	-38.0	+0.3	+27.2	+3.3	+0.0	+0.0	+0.0	+0.0	+0.0	61.6	80.0	-18.4	Horiz
12	1986.450M	64.9	-38.0	+0.3	+27.3	+3.3	+0.0	+0.0	+0.0	+0.0	+0.0	57.8	80.0	-22.2	Vert
13	25903.000 M	51.6	+0.0 -29.0	+1.3 +41.7	+0.0 +0.0	+0.0 +2.1	+0.0	+0.0	+0.0	+0.0	-10.0	57.7	80.0	-22.3	Vert
14	3453.230M	51.0	-37.4	+0.4	+31.0	+4.7	+0.0	+0.0	+0.0	+0.0	+0.0	49.7	80.0	-30.3	Horiz

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b1**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 09:38:00

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp 1-40GHz	00323	02/05/2008	02/05/2010	02810
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A - Channel 40 - 5200 MHz 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Heliac Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 T6 dB	T3 T7 dB	T4 T8 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	10362.200 M	64.4	-36.2	+0.7	+38.0	+8.8	+0.0	75.7	80.0	-4.3	Vert
2	5199.870M	94.3	-36.7	+0.5	+33.7	+6.1	+0.0	97.9	107.0	-9.1	Horiz
3	10357.950 M	57.0	-36.2	+0.7	+38.0	+8.8	+0.0	68.3	80.0	-11.7	Horiz
4	5199.930M	91.5	-36.7	+0.5	+33.7	+6.1	+0.0	95.1	107.0	-11.9	Vert
5	2433.000M	73.9	-37.9	+0.3	+28.1	+3.7	+0.0	68.1	80.0	-11.9	Vert
6	15543.000 M	50.5	-34.6	+1.0	+38.0	+11.7	+0.0	66.6	80.0	-13.4	Vert
7	3453.000M	67.7	-37.4	+0.4	+31.0	+4.7	+0.0	66.4	80.0	-13.6	Vert
8	20723.000 M	58.2	+0.0 -26.0	+1.1 +41.3	+0.0 +0.0	+0.0 +1.6	-10.0	66.2	80.0	-13.8	Vert
9	1967.150M	72.1	-38.0	+0.3	+27.3	+3.3	+0.0	65.0	80.0	-15.0	Vert
10	5458.000M	57.9	-36.6	+0.5	+33.8	+6.2	+0.0	61.8	80.0	-18.2	Vert
11	1962.150M	68.8	-38.0	+0.3	+27.2	+3.3	+0.0	61.6	80.0	-18.4	Horiz
12	1986.450M	64.9	-38.0	+0.3	+27.3	+3.3	+0.0	57.8	80.0	-22.2	Vert
13	25903.000 M	51.6	+0.0 -29.0	+1.3 +41.7	+0.0 +0.0	+0.0 +2.1	-10.0	57.7	80.0	-22.3	Vert
14	3453.230M	51.0	-37.4	+0.4	+31.0	+4.7	+0.0	49.7	80.0	-30.3	Horiz

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b1**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 09:52:39

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp	00323	02/05/2008	02/05/2010	02810
1-40GHz				
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A Channel 48 - 5240MHz. 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Helix Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	10480.200 M	60.4	-36.2	+0.7	+38.0	+8.9	+0.0	71.8	80.0	-8.2	Vert
2	20955.000 M	63.2	+0.0 -26.0	+1.1 +41.4	+0.0 +0.0	+0.0 +1.7	-10.0	71.4	80.0	-8.6	Vert
3	10511.200 M	56.6	-36.2	+0.7	+38.0	+8.9	+0.0	68.0	80.0	-12.0	Horiz
4	14591.000 M	43.2	-34.7	+0.9	+41.0	+11.4	+0.0	61.8	80.0	-18.2	Horiz
5	15721.700 M	44.7	-34.4	+1.0	+38.0	+11.8	+0.0	61.1	80.0	-18.9	Vert
6	13880.000 M	43.6	-35.2	+1.0	+40.6	+10.6	+0.0	60.6	80.0	-19.4	Horiz
7	26195.000 M	47.1	+0.0 -29.2	+1.3 +0.0	+0.0 +42.4	+0.0 +1.9	-10.0	53.5	80.0	-26.5	Vert
8	5818.000M	44.2	-36.5	+0.5	+33.9	+6.2	+0.0	48.3	80.0	-31.7	Horiz
9	1132.000M	59.4	-39.5	+0.3	+24.3	+2.5	+0.0	47.0	80.0	-33.0	Horiz
10	1588.000M	55.7	-38.3	+0.3	+25.5	+3.0	+0.0	46.2	80.0	-33.8	Horiz

FCC 15.407(b)(4) UNDESIRABLE EMISSION LIMITS

Test Setup Photos



Test Data Sheets

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b4**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 10:17:07

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp	00323	02/05/2008	02/05/2010	02810
1-40GHz				
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A Channel 149 - 5745MHz. 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Heliac Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	5732.770M	75.9	-36.6	+0.5	+33.8	+6.2	+0.0	79.8	90.0	-10.2	Vert
2	22987.900M	56.9	+0.0 -25.3	+1.2 +41.5	+0.0 +0.0	+0.0 +1.8	-10.0	66.1	80.0	-13.9	Vert
3	17232.450M	44.5	-33.7	+1.0	+41.6	+12.5	+0.0	65.9	80.0	-14.1	Vert
4	11484.200M	51.0	-35.9	+0.8	+38.8	+9.6	+0.0	64.3	80.0	-15.7	Horiz
5	17234.000M	42.7	-33.7	+1.0	+41.6	+12.5	+0.0	64.1	80.0	-15.9	Horiz
6	11486.880M	50.7	-35.9	+0.8	+38.8	+9.6	+0.0	64.0	80.0	-16.0	Vert
7	28737.000M	52.9	+0.0 -28.8	+1.6 +0.0	+0.0 +45.7	+0.0 +1.8	-10.0	63.2	80.0	-16.8	Vert
8	5723.670M	68.0	-36.6	+0.5	+33.8	+6.2	+0.0	71.9	90.0	-18.1	Vert
9	5713.350M	57.7	-36.6	+0.5	+33.8	+6.2	+0.0	61.6	80.0	-18.4	Vert
10	5727.850M	62.1	-36.6	+0.5	+33.8	+6.2	+0.0	66.0	90.0	-24.0	Horiz
11	5709.100M	48.8	-36.6	+0.5	+33.8	+6.2	+0.0	52.7	80.0	-27.3	Horiz
12	3830.000M	51.3	-37.3	+0.4	+32.2	+4.9	+0.0	51.5	80.0	-28.5	Horiz
13	5720.850M	56.1	-36.6	+0.5	+33.8	+6.2	+0.0	60.0	90.0	-30.0	Horiz
14	3829.980M	49.5	-37.3	+0.4	+32.2	+4.9	+0.0	49.7	80.0	-30.3	Vert
15	5836.300M	41.3	-36.5	+0.5	+33.9	+6.2	+0.0	45.4	80.0	-34.6	Horiz
16	5823.470M	49.5	-36.5	+0.5	+33.9	+6.2	+0.0	53.6	90.0	-36.4	Vert
17	5823.850M	40.0	-36.5	+0.5	+33.9	+6.2	+0.0	44.1	90.0	-45.9	Horiz

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b4**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 10:21:13

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp	00323	02/05/2008	02/05/2010	02810
1-40GHz				
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A Channel 153 - 5765MHz. 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Helix Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	Reading listed by margin.				Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
			T1 dB	T2 dB	T3 dB	T4 dB					
1	11530.700M	58.4	-35.9	+0.8	+38.8	+9.6	+0.0	71.7	80.0	-8.3	Vert
2	17291.800M	47.1	-33.6	+1.0	+41.9	+12.5	+0.0	68.9	80.0	-11.1	Vert
3	17287.890M	43.7	-33.6	+1.0	+41.8	+12.5	+0.0	65.4	80.0	-14.6	Horiz
4	23053.000M	56.0	+0.0	+1.2	+0.0	+0.0	-10.0	65.1	80.0	-14.9	Horiz
			-25.3	+41.4	+0.0	+1.8					
5	11535.140M	49.9	-35.9	+0.8	+38.8	+9.6	+0.0	63.2	80.0	-16.8	Horiz
6	5737.200M	67.4	-36.5	+0.5	+33.8	+6.2	+0.0	71.4	90.0	-18.6	Horiz
7	28800.000M	50.9	+0.0	+1.6	+0.0	+0.0	-10.0	61.2	80.0	-18.8	Horiz
			-28.8	+0.0	+45.7	+1.8					
8	5732.720M	65.2	-36.6	+0.5	+33.8	+6.2	+0.0	69.1	90.0	-20.9	Vert
9	5709.010M	48.1	-36.6	+0.5	+33.8	+6.2	+0.0	52.0	80.0	-28.0	Horiz
10	5725.640M	56.9	-36.6	+0.5	+33.8	+6.2	+0.0	60.8	90.0	-29.2	Horiz
11	5722.890M	55.4	-36.6	+0.5	+33.8	+6.2	+0.0	59.3	90.0	-30.7	Vert
12	5842.930M	42.8	-36.5	+0.5	+33.9	+6.2	+0.0	46.9	80.0	-33.1	Horiz
13	5838.900M	42.7	-36.5	+0.5	+33.9	+6.2	+0.0	46.8	80.0	-33.2	Vert
14	5704.100M	42.1	-36.6	+0.5	+33.8	+6.2	+0.0	46.0	80.0	-34.0	Vert
15	3836.650M	44.3	-37.3	+0.4	+32.2	+4.9	+0.0	44.5	80.0	-35.5	Horiz
16	3834.130M	44.2	-37.3	+0.4	+32.2	+4.9	+0.0	44.4	80.0	-35.6	Vert
17	5824.100M	47.0	-36.5	+0.5	+33.9	+6.2	+0.0	51.1	90.0	-38.9	Vert
18	5819.300M	44.9	-36.5	+0.5	+33.9	+6.2	+0.0	49.0	90.0	-41.0	Horiz

Test Location: CKC Laboratories, Inc. • 110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer: **Silex Technology, America, Inc.**

Specification: **FCC 15.407 b4**

Work Order #: **88495**

Date: 10/22/2008

Test Type: **Maximized Emissions**

Time: 10:35:23

Equipment: **Wireless Device Server**

Sequence#: 1

Manufacturer: Silex Technology America, Inc.

Tested By: Sep Apahidean

Model: SX-510

S/N: 4

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
Microwave Pre-amp	00323	02/05/2008	02/05/2010	02810
1-40GHz				
18-26GHz Horn	942126-003	09/21/2007	09/21/2009	01413
26-40GHz Horn	951559-008	01/08/2008	01/08/2010	01414
3'-40GHz cable	NA	09/18/2007	09/18/2009	P02945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Power Supply	SL Power	MW170KB0503F01	NA
Wireless Device Server*	Silex Technology America, Inc.	SX-510	4
MiniPCI Wireless Board	Silex Technology America, Inc.	SX-10WAG	0080923A9E74
Antenna	Silex Technology America, Inc.	128-00193-100 Rev A	-

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop	Sony	PCG-982L	28323330
Wireless Access Point	3 Com	WL-526	0200/MUGA6DEB4723F

Test Conditions / Notes:

The EUT is placed on the wooden table with Styrofoam padding of 5 cm thickness. The device is configured in Wireless to Serial mode. The wireless modem is connected to a remote support laptop via a remote support wireless router. The serial port is connected to a section of terminated null modem cable with the terminator placed remotely. The laptop is running test software to exercise the unit and the serial port in a loop back configuration. 21°C, 52% relative humidity. 802.11 A mode of operation. Antenna A Channel 161 - 5805MHz. 1MHz BW Used. Frequency test range 1-40GHz. *Except for the below table: all other spurious emissions were more than 20dB from the limit.

Transducer Legend:

T1=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T2=Hi Freq_40GHz_2ft-ANP02948-091809
T3=Horn Ant AN00849 060610	T4=Heliac Cable 54' ANP05565 090410
T5=AMP-AN02810-020508	T6=ANT 18-26GHz Horn AN01413
T7=Horn AN01414 HP26-40	T8=CAB-ANP02945 091807

Measurement Data:

Reading listed by margin.

Test Distance: 0.5

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	5815.190M	84.5	-36.5	+0.5	+33.9	+6.2	+0.0	88.6	90.0	-1.4	Vert
2	23216.000M	66.7	+0.0 -25.2	+1.2 +41.2	+0.0 +0.0	+0.0 +1.8	-10.0	75.7	80.0	-4.3	Vert
3	11610.550M	60.5	-35.9	+0.8	+38.8	+9.6	+0.0	73.8	80.0	-6.2	Vert
4	29032.000M	61.5	+0.0 -28.7	+1.7 +0.0	+0.0 +45.7	+0.0 +1.8	-10.0	72.0	80.0	-8.0	Vert
5	5814.300M	75.6	-36.5	+0.5	+33.9	+6.2	+0.0	79.7	90.0	-10.3	Horiz
6	11609.600M	55.7	-35.9	+0.8	+38.8	+9.6	+0.0	69.0	80.0	-11.0	Horiz
7	17419.300M	45.1	-33.6	+1.0	+42.4	+12.5	+0.0	67.4	80.0	-12.6	Horiz
8	17419.390M	44.4	-33.6	+1.0	+42.4	+12.5	+0.0	66.7	80.0	-13.3	Vert
9	5819.950M	65.6	-36.5	+0.5	+33.9	+6.2	+0.0	69.7	90.0	-20.3	Horiz
10	5838.260M	54.7	-36.5	+0.5	+33.9	+6.2	+0.0	58.8	80.0	-21.2	Horiz
11	34814.000M	51.3	+0.0 -27.1	+1.5 +0.0	+0.0 +46.1	+0.0 +2.1	-16.0	57.9	80.0	-22.1	Vert
12	5699.110M	45.2	-36.6	+0.5	+33.8	+6.2	+0.0	49.1	80.0	-30.9	Horiz
13	5727.530M	48.6	-36.6	+0.5	+33.8	+6.2	+0.0	52.5	90.0	-37.5	Vert
14	5734.660M	46.4	-36.6	+0.5	+33.8	+6.2	+0.0	50.3	90.0	-39.7	Horiz
15	5729.180M	45.1	-36.6	+0.5	+33.8	+6.2	+0.0	49.0	90.0	-41.0	Horiz
16	5733.400M	43.7	-36.6	+0.5	+33.8	+6.2	+0.0	47.6	90.0	-42.4	Vert
17	5833.490M	43.4	-36.5	+0.5	+33.9	+6.2	+0.0	47.5	90.0	-42.5	Vert
18	5723.630M	43.6	-36.6	+0.5	+33.8	+6.2	+0.0	47.5	90.0	-42.5	Horiz

FCC 15.407(g) FREQUENCY STABILITY

Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	7/23/2008	7/23/2009	02672
Cable	12237/4A	1/15/2008	1/15/2010	05421
Data Acquisition	US37029258	7/17/2008	7/17/2010	02549

Test Conditions

Unit is located in the temperature chamber. The laptop is connected to the unit via RS232 cable. The laptop is used only to change the Channel settings. The spectrum analyzer is directly connected to the antenna port of the transmitter

Test Setup Photos



Test Data

FCC 15.407(g)
Frequency Stability
IEEE 802.11a : 54Mbps

Channel	Frequency MHz	Reading at 0°C MHz	Reading at 25°C MHz	Reading at 50°C MHz
Low 36	5180	5180.00	5180.00	5179.94
High 48	5200	5200	5200	5119.96

Channel	Frequency MHz	Reading at 0°C MHz	Reading at 25°C MHz	Reading at 50°C MHz
Low 149	5745	5745.00	5745.00	5744.90
High 161	5805	5804.96	5805.00	5804.93

RSS 210 99% BANDWIDTH

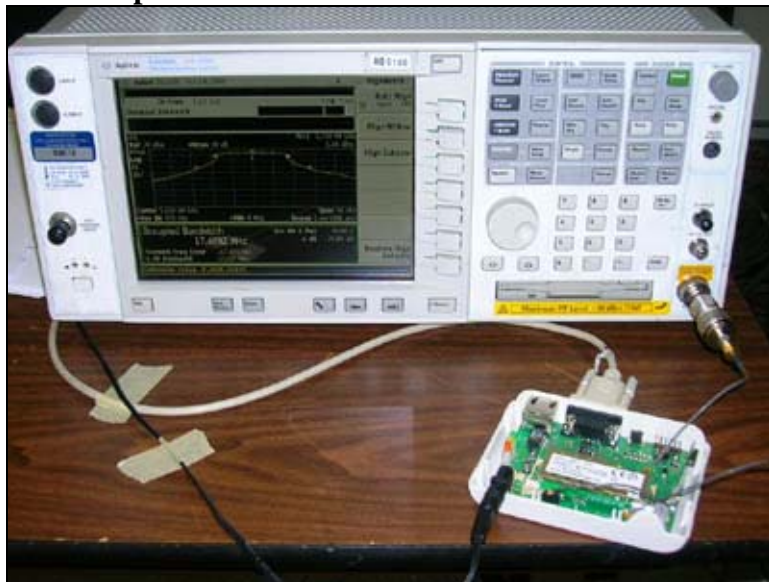
Test Equipment

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	7/23/2008	7/23/2009	02672

Test Conditions

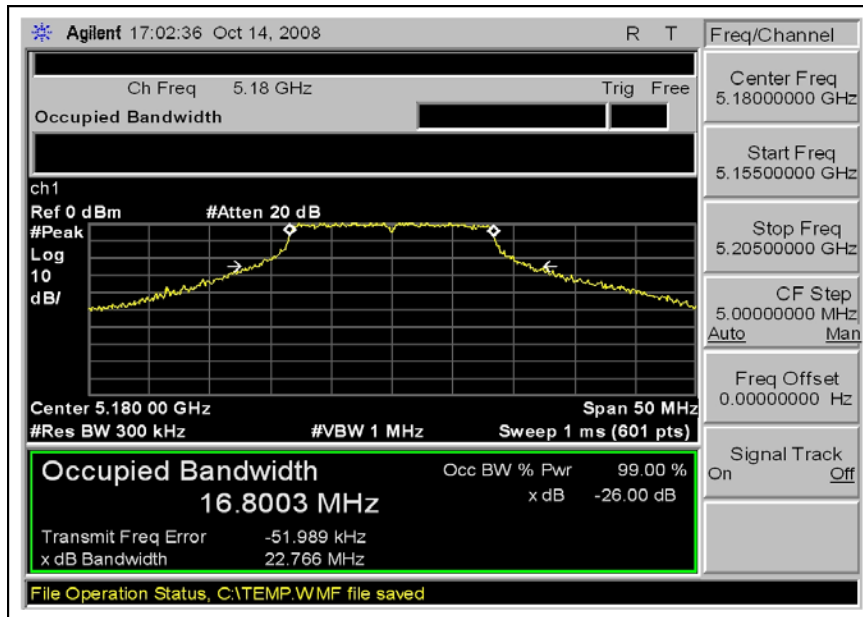
Unit is located next to the spectrum analyzer . The laptop is connected to the unit via RS232 cable. The laptop is used only to change the Channel settings. The spectrum analyzer is directly connected to the antenna port of the transmitter.

Test Setup Photos

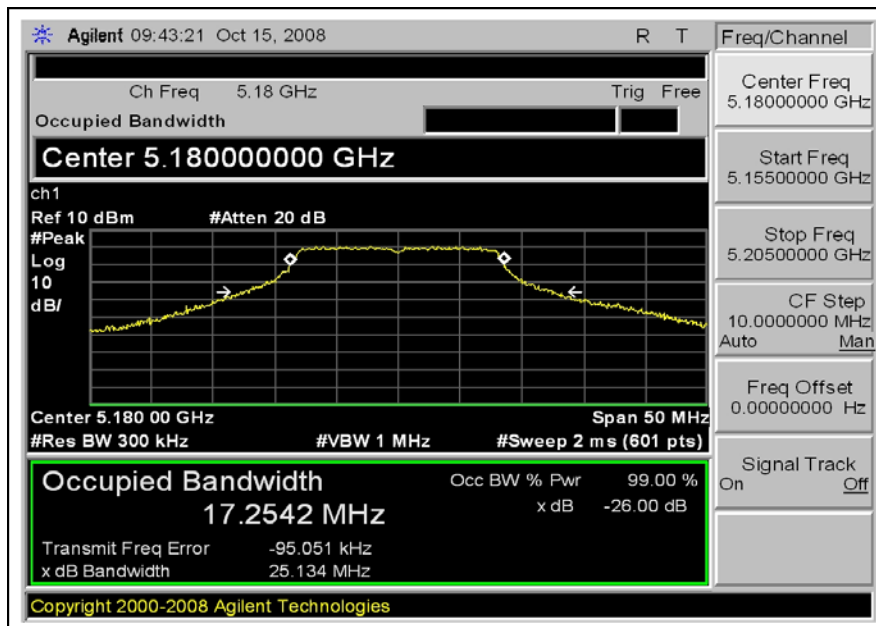


Plots

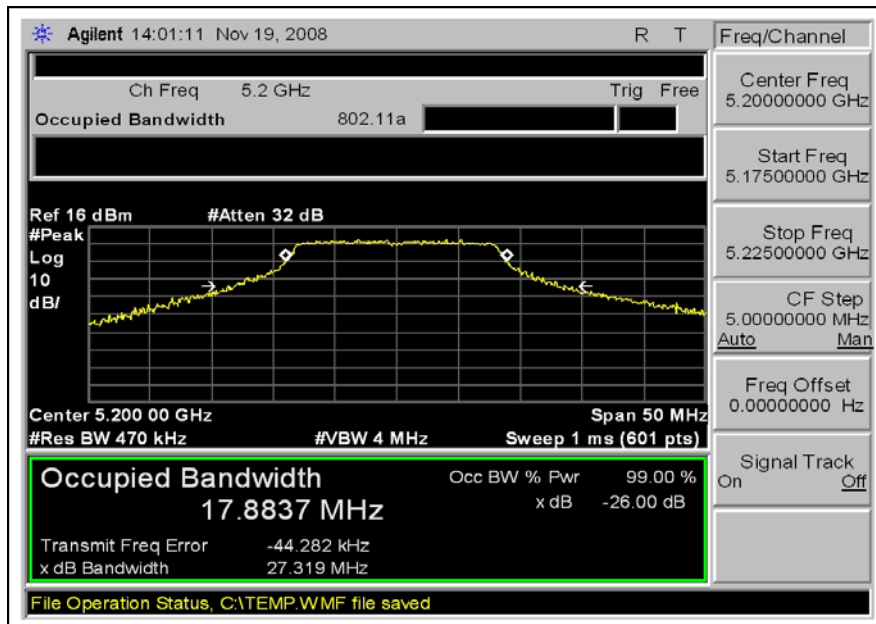
RSS 210 99% BANDWIDTH 802.11a CHANNEL 36 ANTENNA A



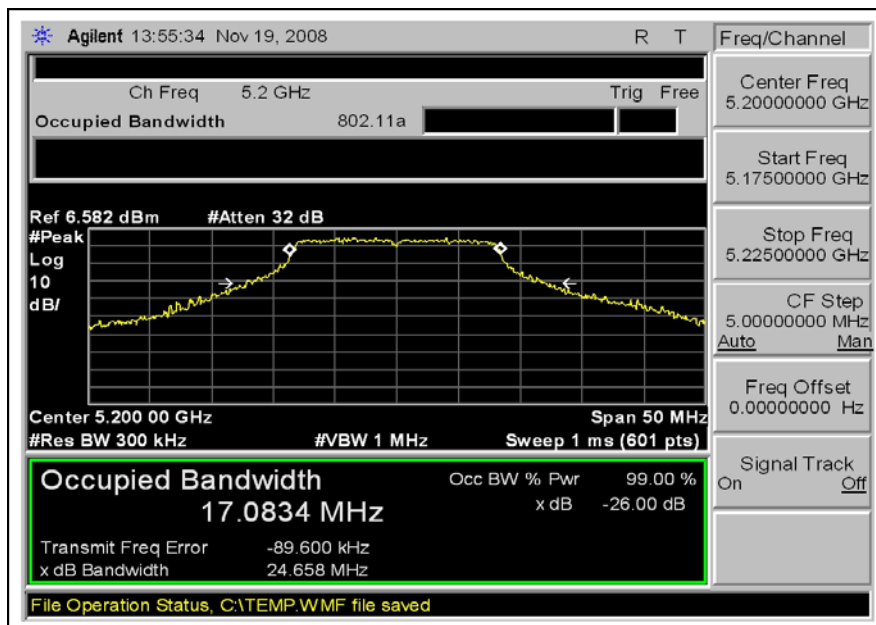
RSS 210 99% BANDWIDTH 802.11a CHANNEL 36 ANTENNA B



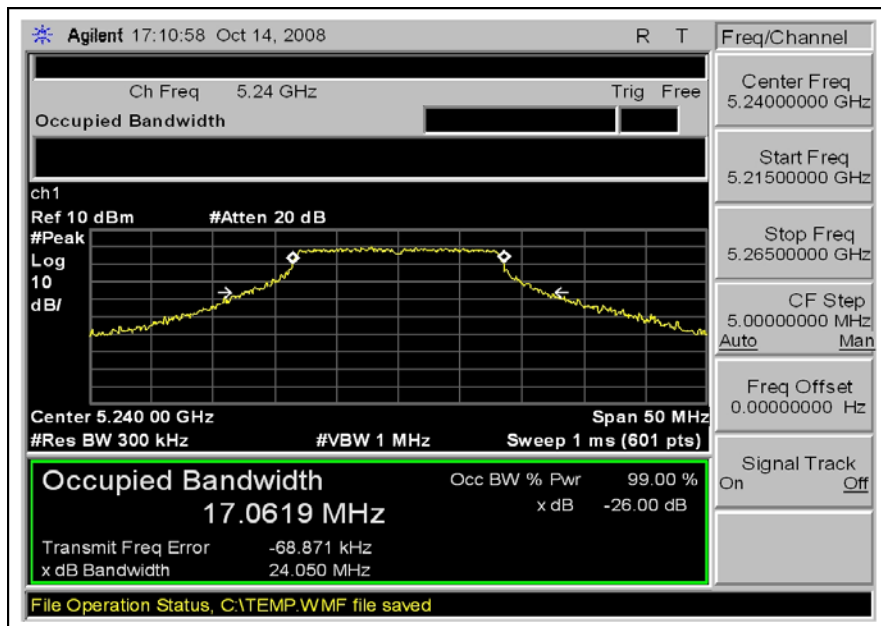
RSS 210 99% BANDWIDTH 802.11a CHANNEL 40 ANTENNA A



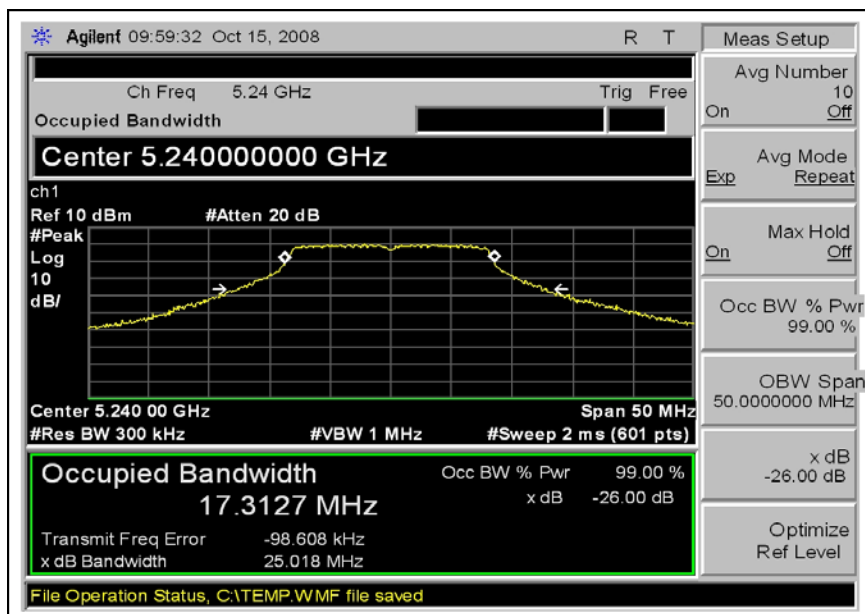
RSS 210 99% BANDWIDTH 802.11a CHANNEL 40 ANTENNA B



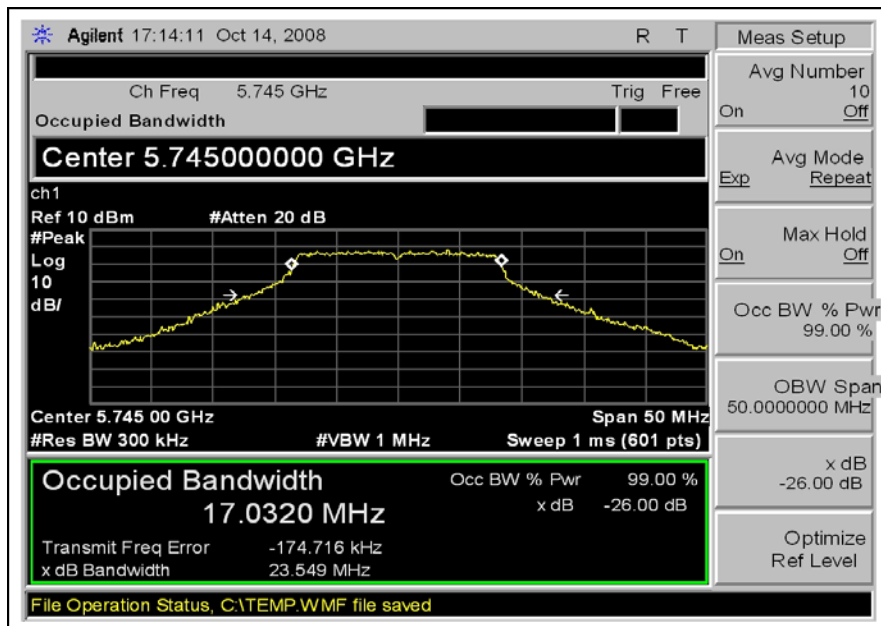
RSS 210 99% BANDWIDTH 802.11a CHANNEL 48 ANTENNA A



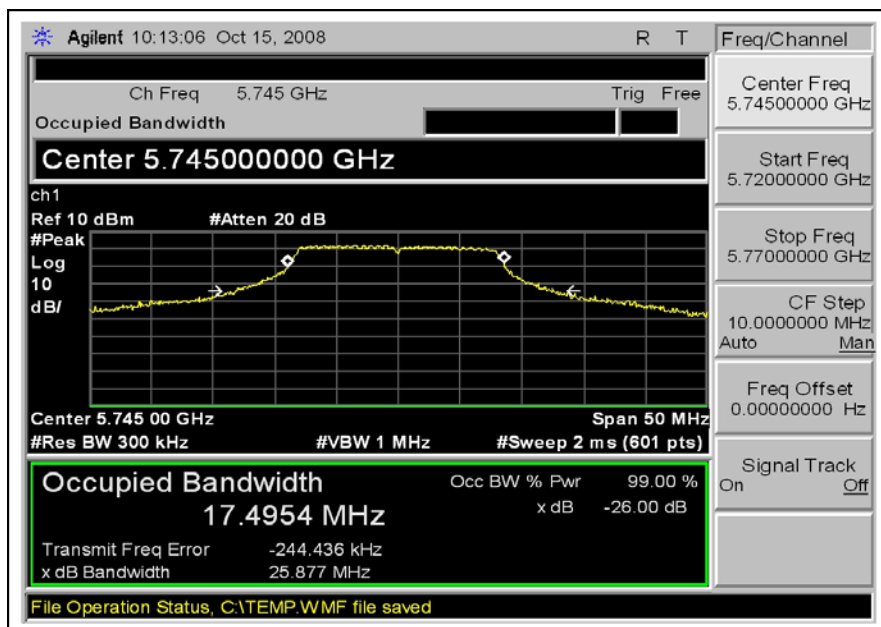
RSS 210 99% BANDWIDTH 802.11a CHANNEL 48 ANTENNA B



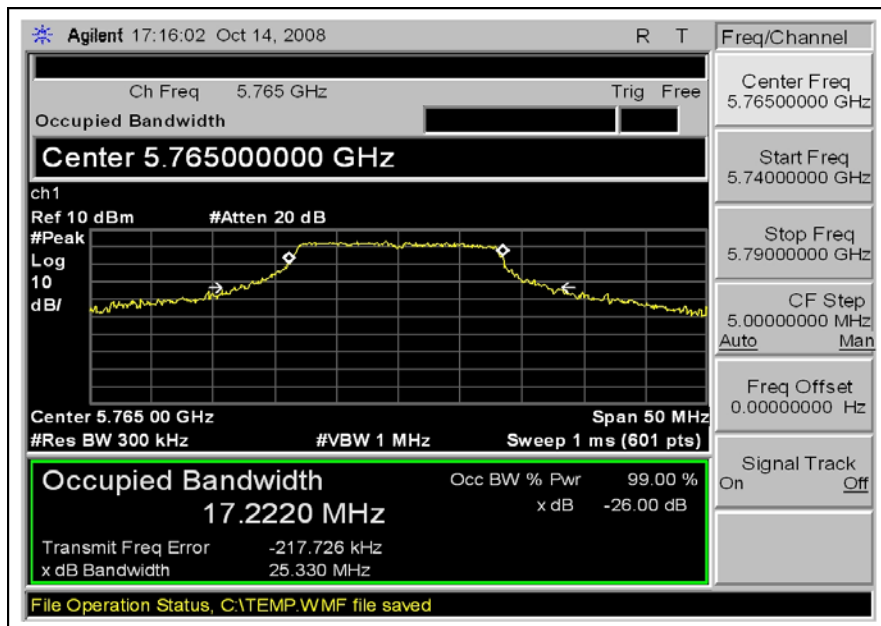
RSS 210 99% BANDWIDTH 802.11a CHANNEL 149 ANTENNA A



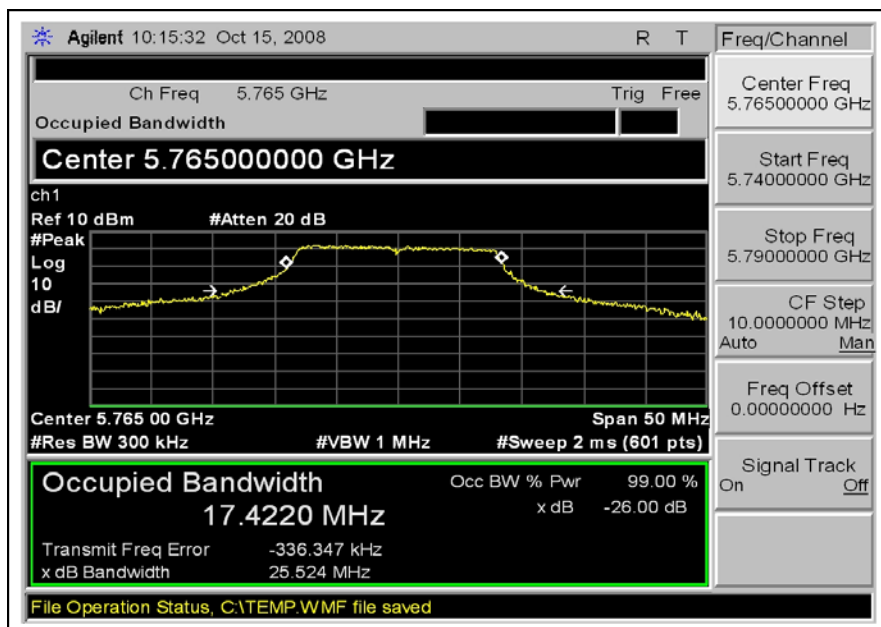
RSS 210 99% BANDWIDTH 802.11a CHANNEL 149 ANTENNA B



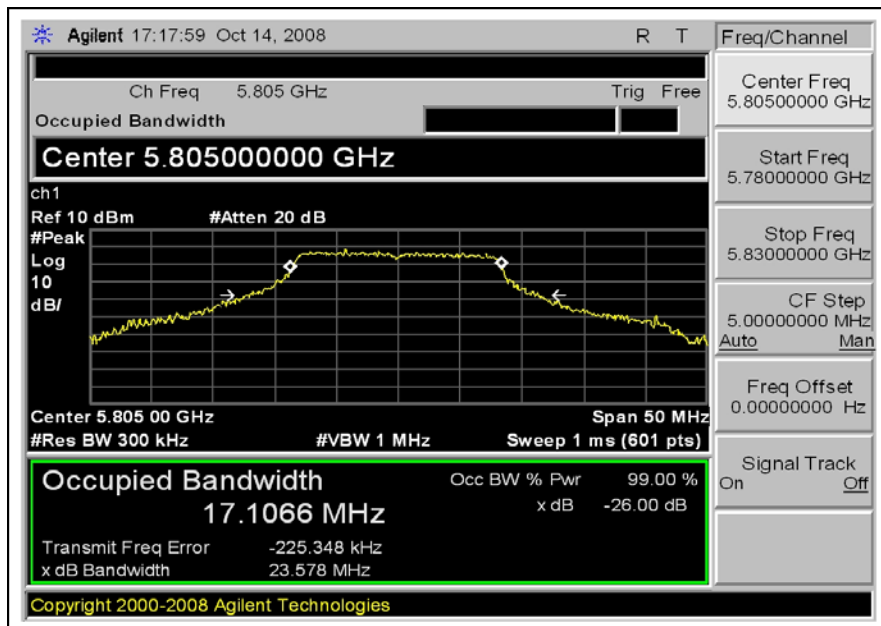
RSS 210 99% BANDWIDTH 802.11a CHANNEL 153 ANTENNA A



RSS 210 99% BANDWIDTH 802.11a CHANNEL 153 ANTENNA B



RSS 210 99% BANDWIDTH 802.11a CHANNEL 161 ANTENNA A



RSS 210 99% BANDWIDTH 802.11a CHANNEL 161 ANTENNA B

