

# TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Adaptive Broadband Ltd AB-ACCESS Access Point (AP)

To: FCC Part 15 Subpart E: 1998 (Unlicensed National Information Infrastructure Devices)

Test Report Serial No: RFI/EMCB2/RP38797A

Supersedes Test report Serial No: RFI/EMCB1/RP38797A

This Test Report Is Issued Under The Authority Of Brian Watson Technical Director:	Checked By:
Tested By:	Release Version No: PDF02
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Issue Date: 19 December 2000	Test Date: 20 April 2000 to 22 April 2000

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Test Of:

Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 2 of 56

Issue Date: 19 December 2000

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#### **EMC Department**

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 3 of 56

Issue Date: 19 December 2000

#### **Table of Contents**

1. Client Information	4
2. Equipment Under Test (EUT)	5
3. Test Specification, Methods And Procedures	g
4. Deviations From The Test Specification	10
5. Operation Of The EUT During Testing	11
6. Summary Of Test Results	12
7. Measurements, Examinations And Derived Results	13
8. Measurement Uncertainty	30
Appendix 1. Test Equipment Used	31
Appendix 2. Measurement Methods	33
Appendix 3. Test Configuration Drawings	40
Appendix 4. Graphical Test Results	45
Annendix 5 Photographs of FUT	55

Test Report Serial No: RFI/EMCB2/RP38797A supersedes Test Report Serial No: RFI/EMCB1/RP38797A

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 4 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 1. Client Information

Company Name:	Adaptive Broadband Ltd
Address:	First Floor, Block C1 The Westbrook Centre Milton Road Cambridge CB4 1YQ Tel: +44-1223-713713 Fax: +44-1223-713714
Contact Name:	Mr P. Simpson Tel: +44-1223-713412 E-Mail: ps@adaptivebroadband.com

**EMC Department** 

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 5 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

# 2.1. Identification Of Equipment Under Test (EUT)

Brand Name:	AB-ACCESS
Model Name or Number:	Access Point (AB)
Unique Type Identification:	UNII Pilot
Serial Number:	Pre-Production 001
Country of Manufacture:	UK
FCC ID Number:	Awaiting Certification from the FCC
Date of Receipt:	20 April 1999

Brand Name:	AB-ACCESS
Model Name or Number:	SU and AP 'Wall-Box'
Unique Type Identification:	RJ45
Serial Number:	Pre-Production 001
Country of Manufacture:	UK
FCC ID Number:	Awaiting Certification from the FCC
Date of Receipt:	20 April 1999

Brand Name:	Sinpro Electronic co. Ltd
Description	DC Power Supply Unit
Model Name or Number:	SPU50-9
Unique Type Identification:	None stated by client
Serial Number:	120663
Country of Manufacture:	Taiwan
FCC ID Number:	Awaiting Certification from the FCC
Date of Receipt:	20 April 1999

**EMC** Department

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 6 of 56

Issue Date: 19 December 2000

#### 2.2. Description Of EUT

AB-ACCESS is targeted at providing high-speed wireless internet access in the recently assigned FCC U-NII bands between 5GHz and 6GHz. AB-ACCESS adopts a cellular structure consisting of base stations (Access Point [AP]) servicing many users. It is a fixed access, point to multipoint infrastructure. The product is targeted at the US market only.

The AP is routed via a 'wall box' to the network service provider's trunked infrastructure. The AP has an integral antenna with a 60 degree 3dB beam width to illuminate the desired coverage area. AP units can be installed around the periphery of a tall building or on a tower for optimum coverage. Power and data (bi-directional) are routed via braid and foil screened, quad twisted pair, CAT 5 data cable from an internally mounted wall box (similar in construction to a standard BT telephone outlet) up to the AP antenna unit. Power and data status is also routed via this cable. Power is provided to the wall box via a standard FCC approved 48V DC supply. The wall box provides ATM connectivity via the RJ45 socket to the service providers network.

#### 2.3. Modifications Incorporated In EUT

The EUT has been modified so that it can be driven from a PC test script enabling worst case conditions for FCC requirements to be evaluated and tested for compliance. This modification is purely a software driver. AB-ACCESS employs a rapid TDD (Time Divisions Duplex) air interface based on ATM (Asynchronous Transfer Mode) networking protocols - data is transmitted asynchronously on demand and as such there is no discernible duty from which 'averaged' measurements can be taken. The following test modes have been implemented:

Continuous Transmit – this enables worst case EIRP and PSD to be measured, the unit is set for maximum transmit power.

Continuous Receive – There may be some fundamental frequency components that exceed the switch receive test-mode, again the unit is set to maximum receive gain.

Bursted Receive - to measure worst radiated and conducted EMC in receive mode. A predetermined duty cycle will be used, the unit is set for maximum receive gain.

Maximum Transmit Power – this is worst case for switching transients creating spurious emissions – EMC radiated and conducted. As above, a predetermined duty cycle will be used, as before the unit is set for maximum transmits power.

Within each of these modes we can change the operating channel as desired by means of the PC controller.

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 7 of 56

Issue Date: 19 December 2000

# 2.4. Additional Information Related To Testing

Power Supply Requirement:	115 V, 60 Hz AC Mains to PSU 48 VDC from PSU to EUT	
Current Rating	830mA	
Intended Operating Environment:	AP antenna units are mounted outside, operational range is -20 to +50 degrees Celsius. "Wall-box" units and PSUs are mounted internally to users buildings/office/home.	
Weight:	AP antenna unit 5 Kg max	
Dimensions:	AP = 500mm (h) x 250mm (w) x 80mm (d)	
Interface Ports:	'Wall-box' RJ45 socket – Ethernet / ATM available	
Type of Device	Fixed Access Wireless Internet System	
Antenna Details	Permanently Attached	
Occupied Bandwidth	17 MHz	
Type of Modulation	QPSK at 25Mbits/sec, raised cosine filter ( $\alpha = 0.35$ )	
Number of Tx Channels	15 Channels of 15 MHz, 5 channels in each U-NII Band	
Method of Frequency Generation	Synthesiser	
Category of Receiver	Superheterodyne	

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 8 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 2.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	PC
Brand Name:	Dell
Model Name or Number:	Latitude
Serial Number:	DP/N0009321C - 12800 - 8BM2910 - ZL6D8
FCC ID Number:	None stated by client
Cable Length And Type:	6m Ethernet UTP
Connected to Port:	Wall-Box (Configuration Only)

Description:	PSU for PC
Brand Name:	Dell
Model Name or Number:	PA-2
Serial Number:	DP/N 0085391 REV A01
FCC ID Number:	None stated by client
Cable Length And Type:	1m DC
Connected to Port:	PC Input

Description	ATM Switch
Brand Name:	ATML
Model Name or Number:	VIRATA Switch 1000
Serial Number:	VM1000-01-1001664
FCC ID Number:	None Stated by Client
Cable Length And Type:	6m Ethernet UTP
Connected to Port:	Wall-Box

**EMC Department** 

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 9 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# 3. Test Specification, Methods And Procedures

#### 3.1. Test Specification

Reference:	FCC Part 15 Subpart E: 1998	
Title:	Code of Federal Regulations, Part 15 (47CFR15) Radio Frequency Devices: Digital Devices. Subpart E: Unlicensed National Information Infrastructure Devices	
Comments:	A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules.	
Purpose of Test:	To determine whether the equipment complied with the requirements of the specification for the purposes of certification.	

#### 3.2. Methods And Procedures

The methods and procedures used were as detailed in:

#### ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

#### ANSI C63.4 (1992)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

#### ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

#### ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

#### CISPR 16 (1987)

Title: Specification for Radio Interference measuring apparatus and measurement methods.

#### 3.3. Definition Of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 10 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 4. Deviations From The Test Specification

None

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 11 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 5. Operation Of The EUT During Testing

#### 5.1. Operating Conditions

The EUT was tested in a normal laboratory environment.

During testing, the EUT was powered by a 48 V DC Supply from the PSU. The PSU was powered from a 115 V, 60 Hz AC Mains supply.

#### 5.2. Operating Modes

The EUT was tested in the following operating mode:

Continuous and Maximum Transmit Power for transmitter tests to FCC Part 15 Subpart E (15.407).

Continuous and bursted receive for receiver tests to FCC Part 15 Subpart B.

For both transmit and receive modes, tests were performed with the EUT set to the following channels for each of the 3 operating bands.

Bottom Band: 5.15 to 5.25 GHz: Bottom Channel (Channel 0) 5.17 GHz

Top Channel (Channel 4) 5.23 GHz

Middle Band: 5.25 to 5.35 GHz: Bottom Channel (Channel 5) 5.27 GHz

Top Channel (Channel 9) 5.33 GHz

Top Band: 5.725 to 5.825 GHz: Bottom Channel (Channel 10) 5.745 GHz

Top Channel (Channel 14) 5.805 GHz

The reason for choosing this mode was that it was defined by the client as being likely to be the worst case with regards EMC.

#### 5.3. Configuration And Peripherals

The EUT was tested in the following configuration: The AP antenna unit is connected via S-FTP-Cat5 cable to the wall-box. The power was supplied from the PSU to the wall-box. Data was controlled from the support PC to the wall-box via UTP-Cat5 Ethernet cables.

The reason for choosing this configuration was that it was defined by the client as being likely to be the worst case with regards EMC and typical of an installation at a users home / office.

NB Section 2 of this report contains a full list of support equipment used and Appendix 3 contains a schematic diagram of the test configuration.

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 12 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# 6. Summary Of Test Results

#### **6.1. Transmitter Tests**

Range Of Measurements	Specification Reference	Compliancy Status
AC Powerline Conducted Emissions, 450 kHz to 30 MHz	Section 15.407 (b5) of C.F.R. 47: 1998. (Section 15.207)	Complied
Effective Isotropic Radiated Power Levels, 5 GHz to 6 GHz	Section 15.407 (a) of C.F.R. 47: 1998.	Complied
Electric Field Strength Spurious Emissions, 30 MHz to 1000 MHz	Section 15.407 (b5) of C.F.R. 47: 1998 (Section 15.209)	Complied
Effective Isotropic Radiated Power Spurious Emissions, 1 GHz to 40 GHz	Section 15.407 (b1/2/3) of C.F.R. 47: 1998.	Complied
Frequency Stability -20°C to +50°C 85% to 115% VAC @ 20°C	Section 15.407 (g) of C.F.R. 47: 1997	Complied

#### **6.2. Receiver Tests**

Range Of Measurements	Specification Reference	Compliancy Status	
AC Powerline Conducted Emissions, 450 kHz to 30 MHz	Section 15.107 Class B of C.F.R. 47: 1998.	Complied	
Electric Field Strength Spurious Emissions, 30 MHz to 26000 MHz	Section 15.109 Class B of C.F.R. 47: 1998	Complied	

#### 6.3. Location Of Tests

All the measurements described in this report were performed at the premises of Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 13 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# 7. Measurements, Examinations And Derived Results

#### 7.1. General Comments

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- 7.1.1. This section contains test results only. Details of the test methods and procedures can be found in Appendix 2 of this report.
- 7.1.2. The measurement uncertainties stated were calculated in accordance with the requirements of NAMAS Document NIS 81 with a confidence level of 95%. Please refer to Section 8 for details of measurement uncertainties.

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 14 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

## 7.2. Test Results For AC Mains Conducted Emissions: Tx and Rx Mode

#### 7.2.1. Quasi-Peak Detector Measurements On Live And Neutral Lines

- 7.2.1.1. Measurements were performed to FCC Part 15.107 Class B (Unintentional Radiators) and FCC Part 15.207 (Intentional Radiators).
- 7.2.1.2. The EUT was operated simultaneously in both maximum transmit power and bursted receive mode on the specified channel.
- 7.2.1.3. Plots of the initial scans can be found in Appendix 4.
- 7.2.1.4. Preliminary conducted spurious emission scans were performed with the EUT set to all 6 channels stated in section 5.2. These preliminary scans showed similar emission levels for each of the channels. Therefore final conducted emission measurements were performed with the EUT set to Bottom Band Bottom Channel (Channel 0).
- 7.2.1.5. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector:

#### **Bottom Band Bottom Channel (Channel 0)**

Frequency (MHz)	Line	Q-P Level (dBm/)	Q-P Limit Margin (dBm/) (dB)		Result
0.563	Live	35.5	48.0	12.5	Complied
0.563	Neutral	37.3	48.0	10.3	Complied
3.101	Live	43.9	48.0	4.1	Complied
3.101	Neutral	44.8	48.0	3.2	Complied
3.288	Live	45.4	48.0	2.6	Complied
3.288	Neutral	46.2	48.0	1.8	Complied
10.306	Live	33.7	48.0	14.3	Complied
10.306	Neutral	33.5	48.0	14.5	Complied
13.671	Live	38.5	48.0	9.5	Complied
13.671	Neutral	36.8	48.0	11.2	Complied
18.000	Live	36.5	48.0	11.5	Complied
18.000	Neutral	37.2	48.0	10.8	Complied

**TEST REPORT** 

**EMC** Department

S.No: RFI/EMCB2/RP38797A

Page 15 of 56

Issue Date: 19 December 2000

Test Of: **Adaptive Broadband Ltd** 

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### 7.2.2. Test Results For AC Mains Conducted Emissions: Tx and Rx Mode (continued)

7.2.2.1. Further to section 7.2.1, additional measurements were performed on frequencies within 6dB of the limit with the EUT set to each of the other 5 operating channels.

#### **Bottom Band Top Channel (Channel 4)**

Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·			Margin (dB)	Result	
3.101	Live	44.5	48.0	3.5	Complied	
3.101	Neutral	45.0	48.0	3.0	Complied	
3.288	Live	45.3	48.0	2.7	Complied	
3.288	Neutral	46.3	48.0	1.7	Complied	

#### Middle Band Bottom Channel (Channel 5)

Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·		_	Result	
3.101	Live	44.5	48.0	3.5	Complied
3.101	Neutral	44.9	48.0	3.1	Complied
3.288	Live	45.3	48.0	2.7	Complied
3.288	Neutral	46.3	48.0	1.7	Complied

#### Middle Band Top Channel (Channel 9)

Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·		_	Result	
3.101	Live	44.8	48.0	3.2	Complied
3.101	Neutral	45.1	48.0	2.9	Complied
3.288	Live	45.4	48.0	2.6	Complied
3.288	Neutral	46.3	48.0	1.7	Complied

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 16 of 56

Issue Date: 19 December 2000

Test Of: **Adaptive Broadband Ltd** 

**EMC Department** 

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# 7.2.3. Test Results For AC Mains Conducted Emissions: Receive Mode (continued) **Top Band Bottom Channel (Channel 10)**

Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·		_	Result	
3.101	Live	44.9	48.0	3.1	Complied
3.101	Neutral	45.2	48.0	2.8	Complied
3.288	Live	45.4	48.0	2.6	Complied
3.288	Neutral	46.3	48.0	1.7	Complied

#### **Top Band Top Channel (Channel 14)**

Frequency (MHz)	· · · · · · · · · · · · · · · · · · ·		_	Result	
3.101	Live	45.0	48.0 3.0		Complied
3.101	Neutral	45.3	48.0	2.7	Complied
3.288	Live	45.7	48.0	2.3	Complied
3.288	Neutral	46.5	48.0	1.5	Complied

**EMC Department** 

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 17 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### 7.3. Test Results For Radiated Emissions: Tx and Rx Mode

#### 7.3.1. Electric Field Strength Measurements: 30 MHz to 1000 MHz

- 7.3.1.1. Measurements were performed to FCC Part 15.109 Class B (Unintentional Radiators) and FCC Part 15.209 (Intentional Radiators).
- 7.3.1.2. The EUT was operated simultaneously in both maximum transmit power and bursted receive mode on the specified channel.
- 7.3.1.3. The client has stated that the highest clock frequency for the EUT was 4.9025 GHz. Therefore tests were performed up to 26.0 GHz.
- 7.3.1.4. Preliminary radiated spurious emission scans were performed with the EUT set to all 6 channels stated in section 5.2. These preliminary scans showed similar emission levels for each of the channels. Therefore final radiated emission measurements were performed with the EUT set to Bottom Band Bottom Channel (Channel 0).
- 7.3.1.5. Plots of the initial scans can be found in Appendix 4.
- 7.3.1.6. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector at a test distance of 3m (results incorporate antenna factors and cable losses):

#### Middle Band Top Channel (Channel 9)

Frequency (MHz)	Ant. Pol.	Q-P Level (dBm//m)	Q-P Limit Margin (dBml/m) (dB)		Result
46.510	Vert.	20.2	40.0	19.8	Complied
50.000	Vert.	32.4	40.0	7.6	Complied
100.000	Vert.	28.6	43.5	14.9	Complied
120.005	Vert.	20.8	43.5	22.7	Complied
150.000	Horiz.	27.4	43.5	16.1	Complied
256.000	Vert.	14.9	46.0	31.1	Complied
336.000	Vert.	23.2	46.0	22.8	Complied
352.000	Vert.	23.0	46.0	23.0	Complied
368.000	Vert.	16.4	46.0	29.6	Complied
432.000	Horiz.	22.4	46.0	23.6	Complied
512.000	Horiz.	26.2	46.0	19.8	Complied
528.000	Horiz.	30.6	46.0	15.4	Complied
550.000	Horiz.	35.9	46.0 10.1		Complied
559.000	Horiz.	27.3	46.0	18.7	Complied
576.000	Horiz.	30.1	46.0	15.9	Complied

S.No: RFI/EMCB2/RP38797A

Page 18 of 56

**TEST REPORT** 

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**EMC** Department

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

## 7.3.2. Test Results For Radiated Emissions: Tx and Rx Mode (continued)

7.3.2.1. Further to section 7.3.1, additional measurements were performed on various frequencies of interest with the EUT set to each of the 2 other operating channels.

#### **Bottom Band Top Channel (Channel 4)**

Frequency (MHz)	Ant. Pol.	Q-P Level (dBmV/m)	Q-P Limit (dBmV/m)	Margin (dB)	Result
512.000	Horiz.	27.4	46.0	18.6	Complied

#### **Top Band Bottom Channel (Channel 10)**

Frequency	Ant.	Q-P Level	Q-P Limit	Margin	Result
(MHz)	Pol.	(dBm//m)	(dB <b>m</b> //m)	(dB)	
550.000	Horiz.	36.7	46.0	9.3	Complied

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 19 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### 7.4. Test Results For Radiated Emissions: Receive Mode

#### 7.4.1. Electric Field Strength Measurements: 1 GHz to 26 GHz

- 7.4.1.1. Measurements were performed to FCC Part 15.109 Class B (Unintentional Radiators).
- 7.4.1.2. The client has stated that the highest clock frequency for the EUT was 4.9025 GHz. Therefore tests were performed up to 26.0 GHz.
- 7.4.1.3. Preliminary radiated spurious emission scans were performed with the EUT set to all 6 channels stated in section 5.2. Final radiated emission measurements were performed only if the preliminary scan showed any spurious emissions to be within 10dB of the reference limit line.
- 7.4.1.4. At higher frequencies, due to the limitations of the dynamic range of the measuring receiver it was not possible to perform radiated emission preliminary scans and final measurements at the specified 3m test distance. Therefore the measuring antenna was moved to a test distance of 1m. The limit was extrapolated using the factor 20 log (d1/d2).
- 7.4.1.5. Plots of the initial scans can be found in Appendix 4.
- 7.4.1.6. The following tables list frequencies at which emissions were measured using Average and Peak detector functions at a test distance of 1m:

#### **Bottom Band Bottom Channel (Channel 0)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dBm//m)	Average Limit (dB <b>m</b> //m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
8.53494	Vert.	21.2	30.5	2.1	53.8	63.5	9.7	Complied
8.53494	Horiz.	25.9	30.5	2.1	58.5	63.5	5.0	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBm/)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBmV/m)	Peak Limit (dB <b>m</b> V/m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
8.53494	Vert.	27.7	30.5	2.1	60.3	83.5	23.2	Complied
8.53494	Horiz.	29.5	30.5	2.1	62.1	83.5	21.4	Complied

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 20 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

#### **Test Results For Radiated Emissions: Receive Mode (continued)**

# **Bottom Band Top Channel (Channel 4)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dBml/m)	Average Limit (dBm//m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
8.65498	Vert.	25.2	30.5	2.1	57.8	63.5	5.7	Complied
8.65498	Horiz.	26.9	30.5	2.1	61.5	63.5	4.0	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBml/m)	Peak Limit (dB <b>m</b> V/m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
8.65498	Vert.	31.5	30.5	2.1	64.1	83.5	19.4	Complied
8.65498	Horiz.	35.2	30.5	2.1	67.8	83.5	15.7	Complied

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 21 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### **Test Results For Radiated Emissions: Receive Mode (continued)**

# **Middle Band Bottom Channel (Channel 5)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dBml/m)	Average Limit (dB <b>m</b> //m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
8.73500	Vert.	22.4	30.5	2.1	55.0	63.5	8.5	Complied
8.73500	Horiz.	23.1	30.5	2.1	55.7	63.5	7.8	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBm//m)	Peak Limit (dB <b>m</b> //m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
8.73500	Vert.	28.6	30.5	2.1	61.2	83.5	22.3	Complied
8.73500	Horiz.	29.5	30.5	2.1	62.1	83.5	21.4	Complied

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 22 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

#### **Test Results For Radiated Emissions: Receive Mode (continued)**

# **Middle Band Top Channel (Channel 9)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dBml/m)	Average Limit (dBmV/m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
8.85499	Vert.	23.5	30.5	2.1	56.1	63.5	7.4	Complied
8.85499	Horiz.	22.8	30.5	2.1	55.4	63.5	8.1	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBm//m)	Peak Limit (dB <b>m</b> //m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
8.85499	Vert.	26.9	30.5	2.1	59.5	83.5	24.0	Complied
8.85499	Horiz.	28.7	30.5	2.1	61.3	83.5	22.2	Complied

#### **Top Band Bottom Channel (Channel 10)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dB <b>m</b> //m)	Average Limit (dB <b>m</b> //m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBm//m)	Peak Limit (dB <b>m</b> //m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 23 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# **Test Results For Radiated Emissions: Receive Mode (continued)**

#### **Top Band Top Channel (Channel 14)**

Frequency (GHz)	Antenna Polarity (H/V)	Average Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Average Level (dBml/m)	Average Limit (dB <b>m</b> //m)	Average Margin (dB)	Result
1.29999	Vert.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
1.29999	Horiz.	14.7	21.7	1.0	36.4	63.5	27.1	Complied
9.80496	Vert.	22.6	30.5	2.1	55.2	63.5	8.3	Complied
9.80496	Horiz.	22.8	30.5	2.1	55.4	63.5	8.1	Complied

Frequency (GHz)	Antenna Polarity (H/V)	Peak Detector level (dBmV)	Antenna factor (dB)	Cable loss (dB)	Actual Peak Level (dBm//m)	Peak Limit (dB <b>m</b> //m)	Peak Margin (dB)	Result
1.29999	Vert.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
1.29999	Horiz.	27.8	21.7	1.0	50.5	83.5	33.0	Complied
9.80496	Vert.	27.4	30.5	2.1	60.0	83.5	23.5	Complied
9.80496	Horiz.	27.8	30.5	2.1	60.4	83.5	23.1	Complied

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 24 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### 7.5. Test Results For Radiated Emissions: Transmit Mode

#### 7.5.1. Effective Isotropic Radiated Power Measurements: 5.0 GHz to 6.0 GHz.

- 7.5.1.1. Measurements were performed to FCC Part 15.407(a) (Unlicensed National Information Infrastructure Devices).
- 7.5.1.2. The client has stated that the EUT operated in the frequency ranges of 5.15 to 5.25 GHz, 5.25 to 5.35 GHz, and 5.725 to 5.825 GHz. Measurements were performed at both bottom and top channels within each band.
- 7.5.1.3. The EUT was configured with a permanently connected antenna. The client has stated that the directional gain of the antenna is 18dBi. EIRP measurements were performed to determine the output power levels of the EUT, and the limit was increased by 6dB to compensate for the antenna being connected. The specified limit includes the 6dB antenna gain.
- 7.5.1.4. It was possible to polarise the antenna incorporated within the EUT for both vertical and horizontal polarisation's. Therefore EIRP measurements were performed with the antenna polarised in both planes.
- 7.5.1.5. Results are shown for the EUT operating on each of the 6 channels stated in section 5.2. Measurements are shown for both transmit power levels and peak power spectral density. Plots showing the characteristics of the transmitter output can be seen in Appendix 4.
- 7.5.1.6. In addition to the measurements stated in section 7.10.1.5, additional results were calculated for the ratio of the peak excursion of the modulation envelope as stated in FCC Part 15.407(a[6]).

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 25 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**Results: Peak Transmit Power Levels** 

Tx Band (GHz)	Channel	Tx Antenn a	Measured Peak EIRP (dBm)	Limit (dBm) (Includes 6dBi Antenna Gain for EIRP)	Bandwidth (MHz)	Plot No.	Result
5.15 – 5.25	Bottom (0)	Vert.	13.10	22.02	15.9555	075	Complied
5.15 – 5.25	Bottom (0)	Horiz.	13.76	22.06	16.0666	076	Complied
5.15 – 5.25	Top (4)	Vert.	14.93	22.00	15.8666	077	Complied
5.15 – 5.25	Top (4)	Horiz.	14.82	22.04	15.9777	078	Complied
5.25 - 5.35	Bottom (5)	Horiz.	22.67	29.07	16.1111	079	Complied
5.25 - 5.35	Bottom (5)	Vert.	21.85	29.05	16.0666	080	Complied
5.25 - 5.35	Top (9)	Vert.	22.92	29.05	16.0444	081	Complied
5.25 - 5.35	(Top (9)	Horiz.	23.50	29.06	16.0888	082	Complied
5.725 – 5.825	Bottom (10)	Horiz.	28.38	35.05	16.0222	083	Complied
5.725 – 5.825	Bottom (10)	Vert.	26.65	35.06	16.0666	084	Complied
5.725 - 5.825	Top (14)	Vert.	27.01	35.05	16.0222	085	Complied
5.725 - 5.825	Top (14)	Horiz.	29.80	35.13	16.3333	086	Complied

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 26 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**Results: Peak Power Spectral Density (PPSD)** 

Tx Band (GHz)	Channel	Tx Antenna	Measured PPSD (EIRP) (dBm/MHz)	Limit (dBm/MHz) (Includes 6dBi Antenna Gain for EIRP)	Plot No.	Result
5.15 – 5.25	Bottom (0)	Vert.	8.5	10.0	075	Complied
5.15 – 5.25	Bottom (0)	Horiz.	6.3	10.0	076	Complied
5.15 – 5.25	Top (4)	Vert.	7.1	10.0	077	Complied
5.15 – 5.25	Top (4)	Horiz.	7.8	10.0	078	Complied
5.25 – 5.35	Bottom (5)	Horiz.	15.2	17.0	079	Complied
5.25 – 5.35	Bottom (5)	Vert.	14.0	17.0	080	Complied
5.25 - 5.35	Top (9)	Vert.	15.2	17.0	081	Complied
5.25 - 5.35	Top (9)	Horiz.	16.4	17.0	082	Complied
5.725 – 5.825	Bottom (10)	Horiz.	19.9	23.0	083	Complied
5.725 - 5.825	Bottom (10)	Vert.	18.6	23.0	084	Complied
5.725 - 5.825	Top (14)	Vert.	19.2	23.0	085	Complied
5.725 - 5.825	Top (14)	Horiz.	21.6	23.0	086	Complied

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 27 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

Results: Ratio of Peak Excursion of the Modulation Envelope

Tx Band (GHz)	Channel	Tx Ant	Measured Peak EIRP (dBm)	Measured PPSD (EIRP) (dBm/ MHz)	Ratio: Peak Excursion	Limit (dB)	Result
5.15 – 5.25	Bottom (0)	Horiz	13.10	8.5	4.60	13.0	Complied
5.15 – 5.25	Bottom (0)	Vert.	13.76	6.3	7.46	13.0	Complied
5.15 – 5.25	Top (4)	Vert.	14.93	7.1	7.83	13.0	Complied
5.15 – 5.25	Top (4)	Horiz.	14.82	7.8	7.02	13.0	Complied
5.25 - 5.35	Bottom (5)	Horiz.	22.67	15.2	7.47	13.0	Complied
5.25 – 5.35	Bottom (5)	Vert.	21.85	14.0	7.85	13.0	Complied
5.25 - 5.35	Top (9)	Vert.	22.92	15.2	7.72	13.0	Complied
5.25 - 5.35	Top (9)	Horiz.	23.50	16.4	7.10	13.0	Complied
5.725 – 5.825	Bottom (10)	Horiz.	28.38	19.9	8.48	13.0	Complied
5.725 – 5.825	Bottom (10)	Vert.	26.65	18.6	8.05	13.0	Complied
5.725 - 5.825	Top (14)	Vert.	27.01	19.2	7.81	13.0	Complied
5.725 - 5.825	Top (14)	Horiz.	29.80	21.6	8.2	13.0	Complied

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 28 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

#### 7.6. Test Results For Radiated Emissions: Transmit Mode

# <u>7.6.1. Effective Isotropic Radiated Power Spurious Measurements: 1.0 GHz to 40.0 GHz.</u>

- 7.6.1.1. Measurements were performed to FCC Part 15.407(b) (Unlicensed National Information Infrastructure Devices).
- 7.6.1.2. The client has stated that the highest clock frequency for the EUT was 5.825 GHz. Therefore tests were performed up to 40.0 GHz.
- 7.6.1.3. Preliminary EIRP scans were performed with the EUT operating on each of the 6 channels stated in section 5.2. Plots showing the spurious (undesirable) emission levels can be seen in Appendix 4.
- 7.6.1.4. The EUT was configured with a permanently connected antenna. It was possible to polarise the antenna for both vertical and horizontal polarisation's. Therefore EIRP measurements were performed with the antenna polarised in both planes.

#### Results:

- 7.6.1.5. Preliminary scans were performed with the EUT operated on each of the 6 channels stated in section 5.2. It can be shown from the plots (Plots 087 to 134) that all emissions outside of the transmitter band edges are of at least 6dB from the reference limit line. Therefore no final measurements were performed.
- 7.6.1.6. All preliminary scans (Plots 087 to 134) can be seen in Appendix 4.

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 29 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

## 7.7. Test Results For Frequency Stability: Transmit Mode

7.7.1. Measurements for frequency stability were performed in accordance with FCC Part 15.407 (g) of C.F.R. 47:1997.

- 7.7.2. Measurements were performed over the temperature range of -20°C to +50°C at the nominal operating voltage, and over an operating voltage of 85% to 115% at +20°C.
- 7.7.3. The client has specified that due to the transmission of broadband data centred around the nominal carrier frequency of the EUT, measurements of any 'drift' are virtually impossible. However valid measurements would be possible by observing the drift on the main local oscillator, which is 902.5 MHz below the nominal centre frequency. All oscillators within the EUT are referenced to a single source and so any drift can be easily quantified. Also due to the integrated nature of the antenna, and its associated gain/frequency response, any 'drift' can be observed whilst operating at the top frequency of the U-NII band (Channel 14).
- 7.7.4. Measurements for frequency drift were performed with the EUT operating on Channel 14. A plot (Plot 169) of the frequency stability was performed, with the EUT supply voltage, varied from 85% to 110%, and then up to 115%. At all times the ambient temperature was maintained at +20°C. A further plot (Plot 170) was performed to show the frequency stability of the EUT, with the ambient temperature varied from -20°C to +20°C, and then to +50°C. The supply voltage to the EUT remained at a constant 115V. The plots of both measurements can be seen in Appendix 4.

**Results: Supply Variation** 

Nominal Operating Frequency	Frequency Deviation @ +20℃			Limit (±10ppm)	Result
	85% Supply Voltage	100% Supply Voltage	115% Supply Voltage		
4.90249 GHz	< 1 kHz	< 1 kHz	< 1 kHz	49 kHz	Complied

**Results: Temperature Variation** 

Nominal Operating Frequency	Frequency Deviation @ 115 V			Limit (±10ppm)	Result
	-20°C	+20°C	+50°C		
4.90249 GHz	< 10 kHz	< 1 kHz	< 10 kHz	49 kHz	Complied

**EMC** Department

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 30 of 56

Issue Date: 19 December 2000

# 8. Measurement Uncertainty

8.1. Company Policy, as based on the NAMAS Accreditation Standard, M10, paragraph 12.11 (o), states that Test Reports shall include estimated uncertainty of the calibration or test result (this information need only appear in test reports and test certificates where it is relevant to the validity or application of the test result, where a client's instructions so require or where uncertainty affects compliance to a specification or limit).

8.2. The global uncertainties have been calculated in accordance with NAMAS NIS 81 (Edition 1, May 1994) as follows:

Measurement Type	Range	Confidence Level	Calculated Uncertainty
Conducted Emissions	0.15 MHz to 30 MHz	95%	+/- 2.2 dB
Radiated Field Strength Emissions	30 MHz to 1000 MHz	95%	+/- 4.9 dB
Radiated Field Strength Emissions	1.0 GHz to 26.0 GHz	95%	+/- 4.0 dB
Effective Isotropic Radiated Power	1.0 GHz to 40.0 GHz	95%	+/- 4.0 dB
Frequency Stability	N/A	95%	+/- 4.2 dB

- 8.3. Measurement uncertainties have been applied in accordance with NAMAS document NIS 81 (edition 1, May 1994), and in the absence of any specification criteria, guidance, or code of practice, compliance has been judged on the basis of shared risk.
- 8.4. In the case of emissions tests, the measured value of the disturbance from the product sample shall be compared directly with the limits. If the measured value is equal to or less than the limit the product is deemed to pass the test.
- 8.5. In the case of immunity tests, the equipment is deemed to pass the test if it fulfils the stated performance criteria at the required or a higher severity level. The measurement uncertainty has been taken into account in the calibration procedures stated in the relevant basic standard.
- 8.6. The methods used to calculate the above uncertainties are in line with those used for calibration laboratories contained in NAMAS document NIS 3003 Edition 8 "The Expression of Uncertainty and Confidence in Measurement" May 1995, which align with international recommendations "Guide to the Expression of Uncertainty in Measurement" ISO/IEC/OIML/BIPM (Prepared by ISO/TAG 4: January 1993).

**EMC Department** 

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 31 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# **Appendix 1. Test Equipment Used**

Instrument	Manufacturer	Model	RFI No.		
Conducted Emissions:					
L.I.S.N. (1 ph.)	R & S	ESH3-Z5	A004		
Pulse Limitter	R&S	ESH3-Z32	A287		
Test Receiver	R&S	ESMI	M069		
Plotter	H.P.	7440A	P001		
Radiated Electric Field Emissi	ons				
Bilog Antenna	Chase	CBL6111	A259		
3dB Attenuator	Narda	771003	A262		
Bilog Antenna	Chase	CBL6111	A490		
Cable	Rosenberger	UFA210A-1- 1182-704704	C460		
Cable	Rosenberger	UFA210A-1- 1182-704704	C461		
Test Receiver	R & S	ESVP	M002		
Spectrum Monitor	R&S	EZM	M003		
Test Receiver	R&S	ESMI	M069		
Test Receiver	R&S	ESBI	M088		
1.0 to 2.0 GHz Horn	Eaton	9188-2	A028		
2.0 to 4.0 GHz Horn	Eaton	91889-2	A031		
4.0 to 6.0 GHz Horn	Flann	12240-20	A428		
6.0 to 8.2 GHz Horn	Narda	642	A439		
8.2 to 12.5 GHz Horn	Narda	640	A437		
12.5 to 18.0 GHz Horn	Flann	18240-20	A430		
18.0 to 26.0 GHz Horn	Flann	20240-20	A436		

**EMC** Department

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 32 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

# **Test Equipment Used (continued)**

Effective Isotropic Radiated Power				
Test Receiver	R&S	ESMI	M069	
Cable	Rosenberger	UFA210A-1- 1182-704704	C460	
Cable	Rosenberger	UFA210A-1- 1182-704704	C461	
1.0 to 2.0 GHz Horn	Eaton	9188-2	A028	
2.0 to 4.0 GHz Horn	Eaton	91889-2	A031	
4.0 to 6.0 GHz Horn	Flann	12240-20	A428	
6.0 to 8.2 GHz Horn	Narda	642	A439	
8.2 to 12.5 GHz Horn	Narda	640	A437	
12.5 to 18.0 GHz Horn	Flann	18240-20	A430	
18.0 to 26.0 GHz Horn	Flann	20240-20	A436	
26.0 to 40.0 GHz Horn	Flann	22240-20	A435	
Harmonic Mixer	-	-	W152	
Frequency Stability				
Test Receiver	R&S	ESMI	M069	
Cable	Rosenberger	UFA210A-1- 1182-704704	C460	
4.0 to 6.0 GHz Horn	Flann	12240-20	A428	
Environmental Test Chamber	Prolan	PV427H75F 30HV	E007	

**NB** In accordance with NAMAS requirements, all the measurement equipment is on a calibration schedule.

**EMC** Department

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 33 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# **Appendix 2. Measurement Methods**

#### A2.1. AC Mains Conducted Emissions: FCC Part 15

- A2.1.1. AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.
- A2.1.2. The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane and with the EUT powered via a 115 V 60 Hz AC mains supply.
- A2.1.3. Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.
- A2.1.4. Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were retested (at individual frequencies) using the appropriate detector function.
- A2.1.5. The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)*
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	>1s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

<sup>\*</sup> In some instances an Average detector function may also have been used.

**EMC** Department

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 34 of 56

Issue Date: 19 December 2000

#### A2.2. Radiated Field Strength Emissions

A2.2.1. Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A2.2.2. Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure (for frequencies below 4 GHz) or on an open area test site (for frequencies above 4 GHz) were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

- A2.2.3. The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Where (at higher frequencies) the noise floor was found to be of a higher level, a test distance of 1m was used. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested on the open area test site, at the appropriate distance, using a measuring receivers with a Quasi-Peak detector (below 1000 MHz), where applicable, for measurements above 1000 MHz average and peak detectors were used.
- A2.2.4. For the main (final) measurements the EUT was arranged on a non-conducting table on an open area test site, as detailed in the specification.
- A2.2.5. All measurements on the open area test site were performed using broadband antennas.
- A2.2.6. On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360°. In addition, for frequencies below 1000 MHz, the antenna height was varied between 1 and 4 m. For frequencies above 1000 MHz, the antenna was fixed at a height of 1.5m. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

**EMC Department** 

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 35 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# A2.2.7. The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan Below 1GHz	Final Measurements Below 1GHz
Detector Type:	Peak	Quasi-Peak (CISPR)
Mode:	Max Hold	Not applicable
Bandwidth:	120 kHz	120 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

Receiver Function	Initial Scan Above 1GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Peak/Average
Mode:	Max Hold	Not applicable
Bandwidth:	1 MHz	1 MHz
Amplitude Range:	60 dB	20 dB (typical)
Measurement Time:	Not applicable	>1s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

**EMC** Department

Test Of:

**Adaptive Broadband Ltd** 

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 36 of 56

Issue Date: 19 December 2000

#### A.2.3. Effective Isotropic Radiated Power Measurements: 5.0 GHz to 6.0 GHz.

A.2.3.1. Effective Isotropic Radiated Power measurements were performed in accordance with the standard, against the appropriate limits on an open area test site.

- A.2.3.2. The EUT was set to transmit on the required channel at maximum transmit power. The channels stated in section 5.2 were tested. The EUT was configured with a permanently attached antenna. Therefore radiated power measurements were performed.
- A.2.3.3. The EUT was mounted on a non-metallic table at a 1 m test height. The receive (test) antenna was placed at a test distance of 2m. The EUT was set to operate at the required channel and the exact frequency recorded. A substitution measurement was then performed to determine the loss of the test set-up. (Details of the substitution method can be seen in Appendix A.2.6.).
- A.2.3.4. The level recorded for the substitution method was entered as a level offset in the measuring receiver. Initial measurements covering the entire measurement band were performed in the form of a swept scan. In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (1MHz). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT. The EUT was rotated through 360° to maximise all emissions. The test was performed with the EUT integral antenna set for both horizontal and vertical polarisations. The test antenna was also set for both polarities.
- A.2.3.5. The measured Peak Transmit Power and the Power Spectral Density could then be determined.
- A.2.3.6. The EUT was set to the next channel and sections A.2.3.2. to A.2.3.5. were repeated.

**EMC** Department

Test Of:

**Adaptive Broadband Ltd** 

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT S.No: RFI/EMCB2/RP38797A

Page 37 of 56

Issue Date: 19 December 2000

# A.2.4. Effective Isotropic Radiated Power Spurious Measurements: 1.0 GHz to 40.0 GHz.

- A.2.4.1. Effective Isotropic Radiated Power Spurious measurements were performed in accordance with the standard, against the appropriate limits on an open area test site.
- A.2.4.2. The EUT was set to transmit on the required transmit channel at maximum transmit power. The channels stated in section 5.2 were tested. The EUT was configured with a permanently attached antenna. Therefore radiated power measurements were performed.
- A.2.4.3. The EUT was mounted on a non-metallic table at a 1.5m test height. The receive (test) antenna was placed at a test distance of 2m. For each of the frequency ranges performed, a substitution method was performed to determine the worst case loss of the test set-up. (Details of the substitution method can be seen in Appendix A.2.6.)
- A.2.4.4. The level recorded for the substitution method was entered as a level offset in the measuring receiver. Initial measurements covering the entire measurement band were performed in the form of a swept scan (For frequencies below 4 GHz, initial scans were performed in a shielded enclosure). In order to minimise the time taken for the swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (1MHz). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT. The EUT was rotated through 360° to maximise all emissions. The test was performed with the EUT integral antenna set for both horizontal and vertical polarisation. The test antenna was also set for both polarities.
- A.2.4.5. The maximum emission level obtained in dBm/MHz could then be determined. Any levels which were found to be within 6dB of the reference limit line were re-measured with a substitution measurement being performed.
- A.2.4.6. The EUT was set to the next channel and sections A.2.4.2. to A.2.4.5. were repeated.

**EMC Department** 

Test Of:

**Adaptive Broadband Ltd** 

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 38 of 56

Issue Date: 19 December 2000

### **A2.5. Frequency Stability**

A.2.5.1. Measurements were performed to determine the frequency stability against the specified limits.

- A.2.5.2. An environmental test chamber was used to perform the resting required.
- A.2.5.3. The EUT was situated inside the environmental test chamber and the required temperature (starting from the lowest level) was allowed to settle prior to switching on the EUT.
- A.2.5.4. The EUT was switched on and the relevant frequency was recorded. The EUT was left switched on and measurements were performed after 2, 5 and 10 minutes.
- A2.5.5. Frequency and RF output power measurements were then made at intervals of one minute for a duration of 10 minutes whilst maintaining the required temperature.
- A2.5.6. The EUT was then switched off for a minimum of 30 minutes and the environmental chamber was allowed to stabilise at the next temperature. Points A2.5.3. to A2.5.5. were then repeated.
- A.2.5.7. The test chamber was then allowed to stabilise at +20°C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency recorded.

**EMC Department** 

Test Of:

**Adaptive Broadband Ltd** 

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 39 of 56

Issue Date: 19 December 2000

### **A.2.6. Substitution Methods**

A.2.6.1. The equipment is configured as illustrated in Appendix 4.

A.2.6.2. The EUT is replaced by an in-band antenna connected to a signal generator tuned to the frequency of interest. A 10dB attenuator was connected to improve matching.

A.2.6.3. The transmit and receive antennas were vertically polarised at a fixed height of 1.5 metres.

A.2.6.4. The signal generator level is then adjusted to give a level equal to that obtained from the EUT.

A.2.6.5. The radiated power is given by the formula below.

True Signal level = Signal Generator Level -  $\sum L + Ag$ 

where:

 $\sum L$  is the sum of the losses, i.e. cable loss.

Ag is the isotropic gain of the antenna.

A.2.6.6. The measurement shall be repeated for horizontal polarisation.

**EMC Department** 

Test Of:

**Adaptive Broadband Ltd** 

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 40 of 56

Issue Date: 19 December 2000

## **Appendix 3. Test Configuration Drawings**

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\38797ETF01\EMICON	Test configuration for measurement of conducted emissions
DRG\38797ETF01\EMIRAD	Test configuration for measurement of radiated emissions
DRG\38797ETF01\001	Schematic diagram of the EUT, support equipment and interconnecting cables used for the test
DRG\38797ETF01\002	Substitution measurement test set-up

### **EMC Department**

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

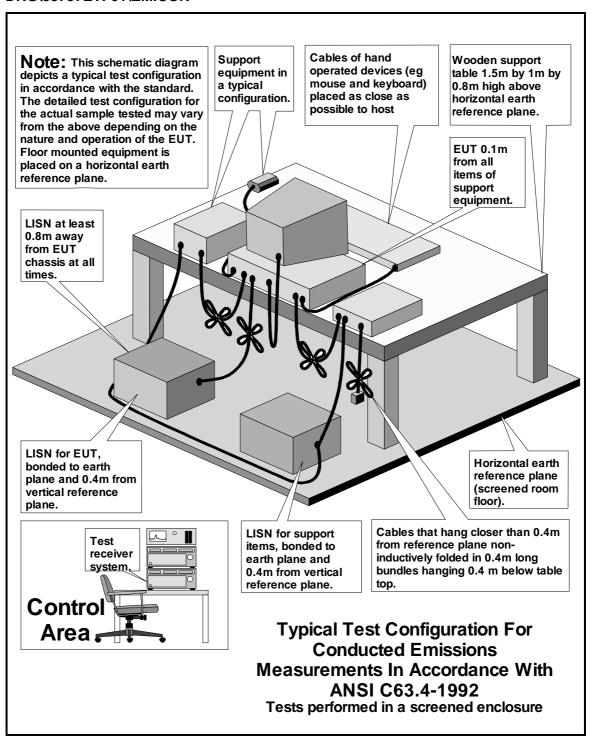
**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 41 of 56

Issue Date: 19 December 2000

#### DRG\38797ETF01\EMICON



**EMC** Department

Test Of: Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

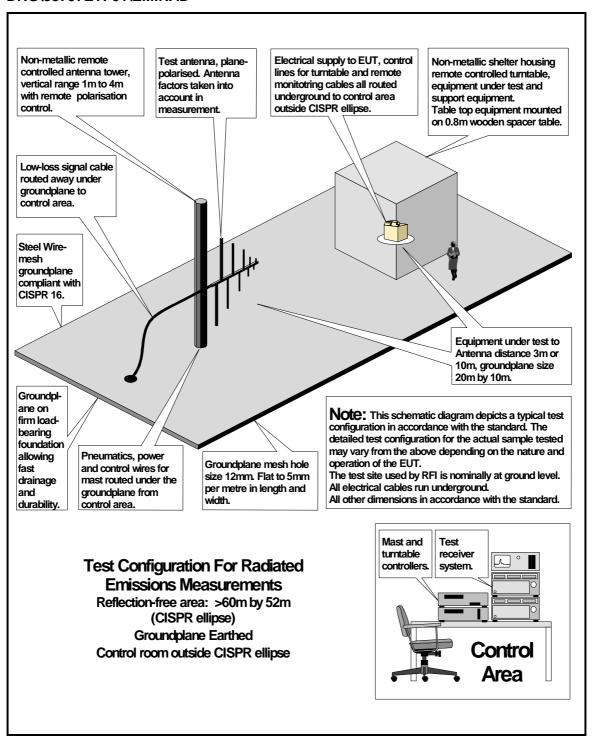
**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 42 of 56

Issue Date: 19 December 2000

#### DRG\38797ETF01\EMIRAD



**TEST REPORT** 

**EMC** Department

S.No: RFI/EMCB2/RP38797A

Page 43 of 56

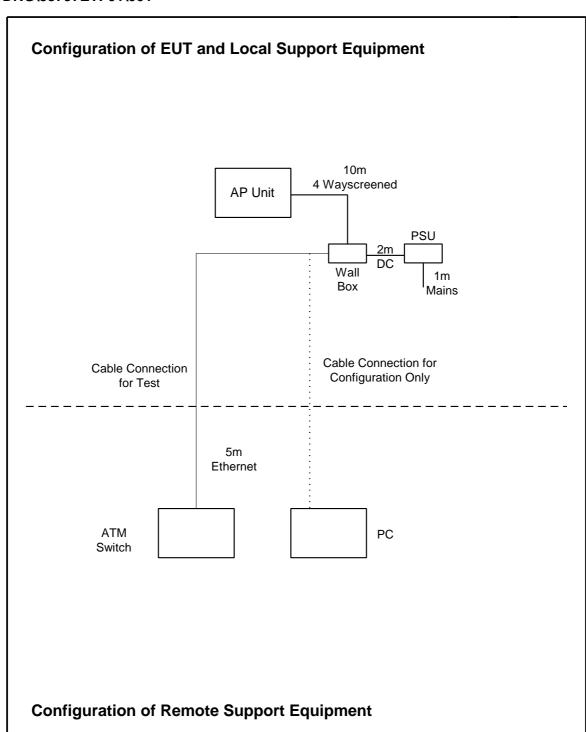
Issue Date: 19 December 2000

Test Of: **Adaptive Broadband Ltd** 

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

### DRG\38797ETF01\001



**EMC Department** 

Test Of:

**Adaptive Broadband Ltd** 

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

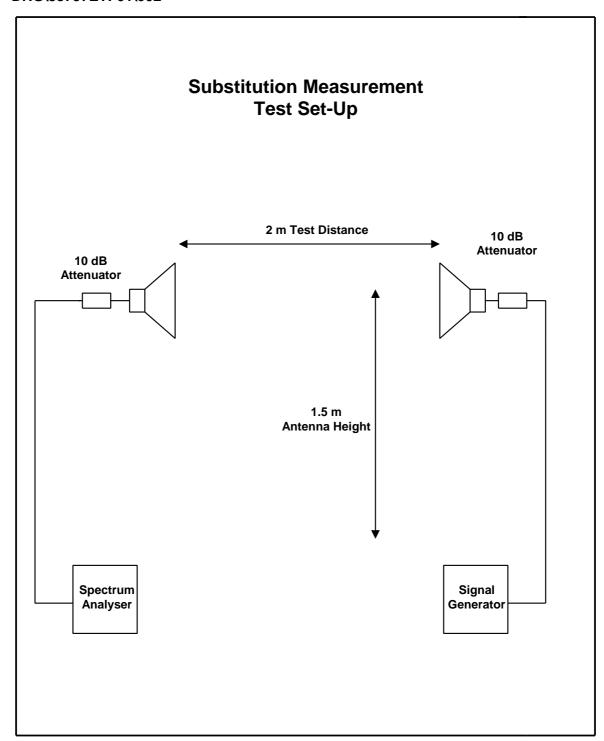
**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 44 of 56

Issue Date: 19 December 2000

### DRG\38797ETF01\002



**EMC Department** 

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 45 of 56

Issue Date: 19 December 2000

## **Appendix 4. Graphical Test Results**

This appendix contains the following graphs:

Graph Reference Number	Title
GPH\38797ETF01\001	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\\38797ETF01002	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\003	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01004	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\005	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\006	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\007	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\008	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\009	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\010	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\011	Scan of Radiated Electric Field: Receive Mode: 2000 to 4000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\012	Scan of Radiated Electric Field: Receive Mode: 1000 to 2000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\013	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 1.0 to 2.0 GHz.
GPH\38797ETF01\014	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 2.0 to 4.0 GHz.
GPH\38797ETF01\015	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 2.0 to 4.0 GHz.
GPH\38797ETF01\016	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 1.0 to 2.0 GHz.

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 46 of 56

Issue Date: 19 December 2000

<b>Graph Reference Number</b>	Title
GPH\38797ETF01\017	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 1.0 to 2.0 GHz.
GPH\38797ETF01\018	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 2.0 to 4.0 GHz.
GPH\38797ETF01\019	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 2.0 to 4.0 GHz.
GPH\38797ETF01\020	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 1.0 to 2.0 GHz.
GPH\38797ETF01\021	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 1.0 to 2.0 GHz.
GPH\38797ETF01\022	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 2.0 to 4.0 GHz.
GPH\38797ETF01\023	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 2.0 to 4.0 GHz.
GPH\38797ETF01\024	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 1.0 to 2.0 GHz.
GPH\38797ETF01\025	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). Live Line.
GPH\38797ETF01\026	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). Neutral Line.
GPH\38797ETF01\027	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). Neutral Line.
GPH\38797ETF01\028	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). Live Line.
GPH\38797ETF01\029	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). Live Line.
GPH\38797ETF01\030	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). Neutral Line.
GPH\38797ETF01\031	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). Neutral Line.

**EMC** Department

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 47 of 56

Issue Date: 19 December 2000

<b>Graph Reference Number</b>	Title
GPH\38797ETF01\032	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). Live Line.
GPH\38797ETF01\033	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). Live Line.
GPH\38797ETF01\034	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). Neutral Line.
GPH\38797ETF01\035	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). Neutal Line.
GPH\38797ETF01\036	Scan of Conducted Emissions: Tx and Rx Mode: 450 kHz to 30 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). Live Line.
GPH\38797ETF01\037	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\038	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\039	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\040	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\041	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\042	Scan of Radiated Electric Field: Tx and Rx Mode: 30 to 1000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\039A	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\040A	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\041A	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\042A	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\043	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\044	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\045	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)

**EMC** Department

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 48 of 56

Issue Date: 19 December 2000

<b>Graph Reference Number</b>	Title
GPH\38797ETF01\046	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\047	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\048	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\049	Scan of Radiated Electric Field: Receive Mode: 5000 to 6000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\050	Scan of Radiated Electric Field: Receive Mode: 4000 to 5000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\051	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\052	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\053	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\054	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\055	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\056	Scan of Radiated Electric Field: Receive Mode: 6000 to 8200 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\057	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\058	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\059	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\060	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\061	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\062	Scan of Radiated Electric Field: Receive Mode: 8200 to 12500 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\063	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 49 of 56

Issue Date: 19 December 2000

Graph Reference Number	Title
GPH\38797ETF01\064	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\065	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\066	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\067	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\068	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\069	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\070	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\071	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\072	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\073	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.725 to 5.85 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\074	Scan of Radiated Electric Field: Receive Mode: 12500 to 18000 MHz 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\075	Transmitter Power Level: EIRP. Tx Vertical. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\076	Transmitter Power Level: EIRP. Tx Horizontal. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0)
GPH\38797ETF01\077	Transmitter Power Level: EIRP. Tx Vertical. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\078	Transmitter Power Level: EIRP. Tx Horizontal. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4)
GPH\38797ETF01\079	Transmitter Power Level: EIRP. Tx Horizontal. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\080	Transmitter Power Level: EIRP. Tx Vertical. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5)
GPH\38797ETF01\081	Transmitter Power Level: EIRP. Tx Vertical. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)
GPH\38797ETF01\082	Transmitter Power Level: EIRP. Tx Horizontal. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9)

**EMC Department** 

Test Of:

**Adaptive Broadband Ltd** 

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 50 of 56

Issue Date: 19 December 2000

<b>Graph Reference Number</b>	Title
GPH\38797ETF01\083	Transmitter Power Level: EIRP. Tx Horizontal. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\084	Transmitter Power Level: EIRP. Tx Vertical. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10)
GPH\38797ETF01\085	Transmitter Power Level: EIRP. Tx Vertical. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\086	Transmitter Power Level. Tx Horizontal. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14)
GPH\38797ETF01\087	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). Tx Lower Band Edge. 5.0 to 5.16 GHz.
GPH\38797ETF01\088	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). Tx Upper Band Edge. 5.18 to 6.0 GHz.
GPH\38797ETF01\089	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 4.0 to 5.0 GHz.
GPH\38797ETF01\090	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 4.0 to 5.0 GHz.
GPH\38797ETF01\091	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). Tx Lower Band Edge. 5.0 to 5.22 GHz.
GPH\38797ETF01\092	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). Tx Upper Band Edge. 5.24 to 6.0 GHz.
GPH\38797ETF01\093	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). Tx Lower Band Edge. 5.0 to 5.26 GHz.
GPH\38797ETF01\094	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). Tx Upper Band Edge. 5.28 to 6.0 GHz.
GPH\38797ETF01\095	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 4.0 to 5.0 GHz.
GPH\38797ETF01\096	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 4.0 to 5.0 GHz.
GPH\38797ETF01\097	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). Tx Lower Band Edge. 5.0 to 5.32 GHz.

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 51 of 56

Issue Date: 19 December 2000

<b>Graph Reference Number</b>	Title
GPH\38797ETF01\098	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). Tx Upper Band Edge. 5.34 to 6.0 GHz.
GPH\38797ETF01\099	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). Tx Lower Band Edge. 5.0 to 5.735 GHz.
GPH\38797ETF01\100	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). Tx Upper Band Edge. 5.815 to 6.0 GHz.
GPH\38797ETF01\101	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 4.0 to 5.0 GHz.
GPH\38797ETF01\102	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 4.0 to 5.0 GHz.
GPH\38797ETF01\103	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 14). Tx Lower Band Edge. 5.0 to 5.795 GHz.
GPH\38797ETF01\104	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 14). Tx Upper Band Edge. 5.815 to 6.0 GHz.
GPH\38797ETF01\105	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 6.0 to 8.2 GHz.
GPH\38797ETF01\106	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 6.0 to 8.2 GHz.
GPH\38797ETF01\107	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 6.0 to 8.2 GHz.
GPH\38797ETF01\108	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 6.0 to 8.2 GHz.
GPH\38797ETF01\109	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 6.0 to 8.2 GHz.
GPH\38797ETF01\110	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 6.0 to 8.2 GHz.

**EMC Department** 

TEST REPORT

S.No: RFI/EMCB2/RP38797A

Page 52 of 56

Issue Date: 19 December 2000

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

Graph Reference Number	Title
GPH\38797ETF01\111	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 8.2 to 12.5 GHz.
GPH\38797ETF01\112	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 8.2 to 12.5 GHz.
GPH\38797ETF01\113	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 8.2 to 12.5 GHz.
GPH\38797ETF01\114	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 8.2 to 12.5 GHz.
GPH\38797ETF01\115	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 8.2 to 12.5 GHz.
GPH\38797ETF01\116	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 8.2 to 12.5 GHz.
GPH\38797ETF01\117	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 12.5 to 18.0 GHz.
GPH\38797ETF01\118	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 12.5 to 18.0 GHz.
GPH\38797ETF01\119	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 12.5 to 18.0 GHz.
GPH\38797ETF01\120	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 12.5 to 18.0 GHz.
GPH\38797ETF01\121	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 12.5 to 18.0 GHz.
GPH\38797ETF01\122	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 12.5 to 18.0 GHz.
GPH\38797ETF01\123	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 18.0 to 26.0 GHz.

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 53 of 56

Issue Date: 19 December 2000

### **Graphical Test Results (continued)**

Graph Reference Number	Title
GPH\38797ETF01\124	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 18.0 to 26.0 GHz.
GPH\38797ETF01\125	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 18.0 to 26.0 GHz.
GPH\38797ETF01\126	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 18.0 to 26.0 GHz.
GPH\38797ETF01\127	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 18.0 to 26.0 GHz.
GPH\38797ETF01\128	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 18.0 to 26.0 GHz.
GPH\38797ETF01\129	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Bottom Channel. (Channel 0). 26.0 to 40.0 GHz.
GPH\38797ETF01\130	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.15 to 5.25 GHz Band. Top Channel. (Channel 4). 26.0 to 40.0 GHz.
GPH\38797ETF01\131	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Bottom Channel. (Channel 5). 26.0 to 40.0 GHz.
GPH\38797ETF01\132	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.25 to 5.35 GHz Band. Top Channel. (Channel 9). 26.0 to 40.0 GHz.
GPH\38797ETF01\133	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Bottom Channel. (Channel 10). 26.0 to 40.0 GHz.
GPH\38797ETF01\134	Spurious Radiated Emissions: EIRP. Tx Both Polarities. 5.725 to 5.825 GHz Band. Top Channel. (Channel 14). 26.0 to 40.0 GHz.
GPH\38797ETF01\135	Frequency Stability. Supply Variation.
GPH\38797ETF01\136	Frequency Stability. Temperature Variation.

These pages are not included in the total number of pages for this report.

**EMC Department** 

Test Of:

Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

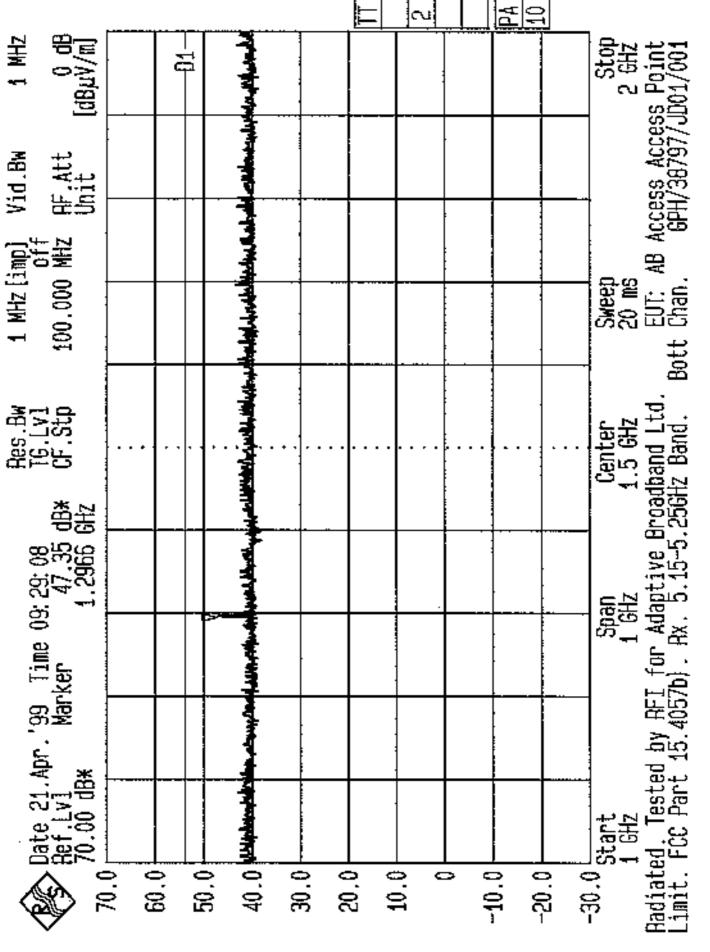
**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 54 of 56

Issue Date: 19 December 2000

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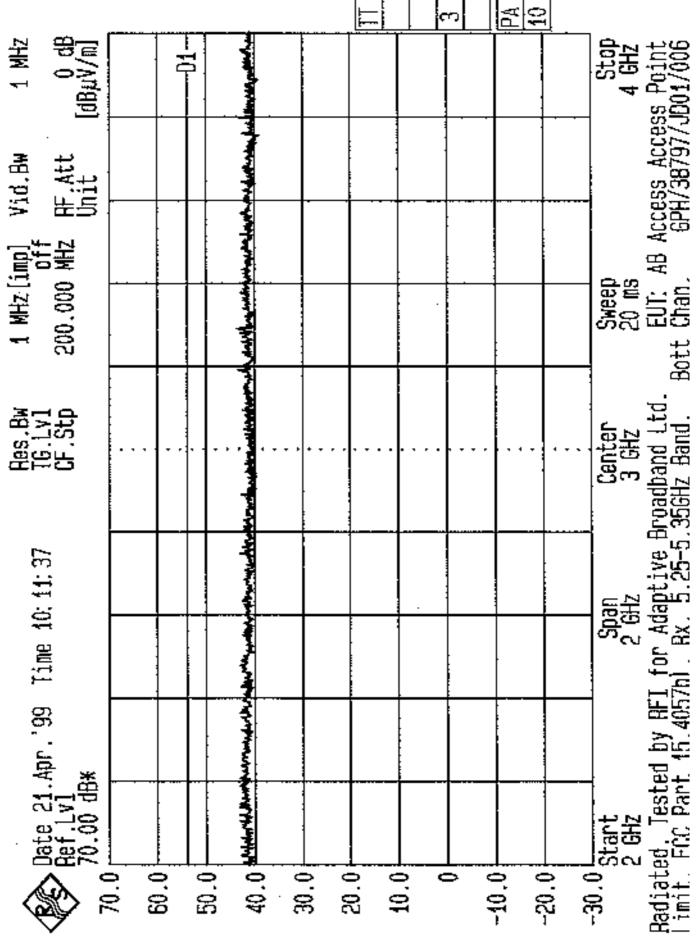
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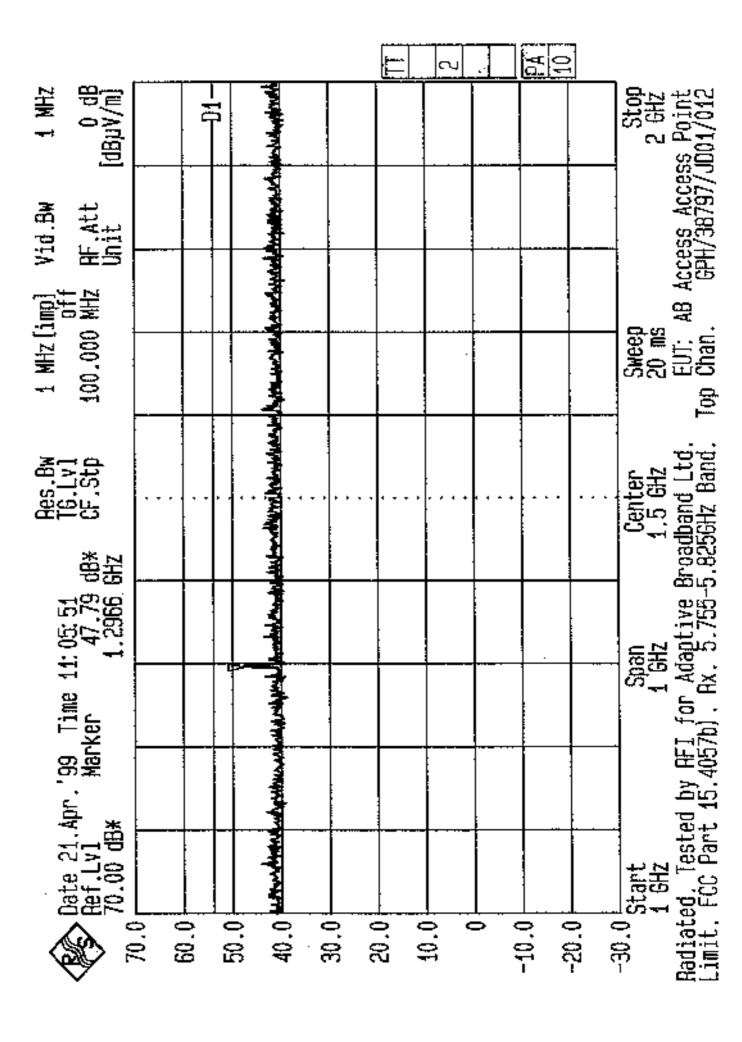
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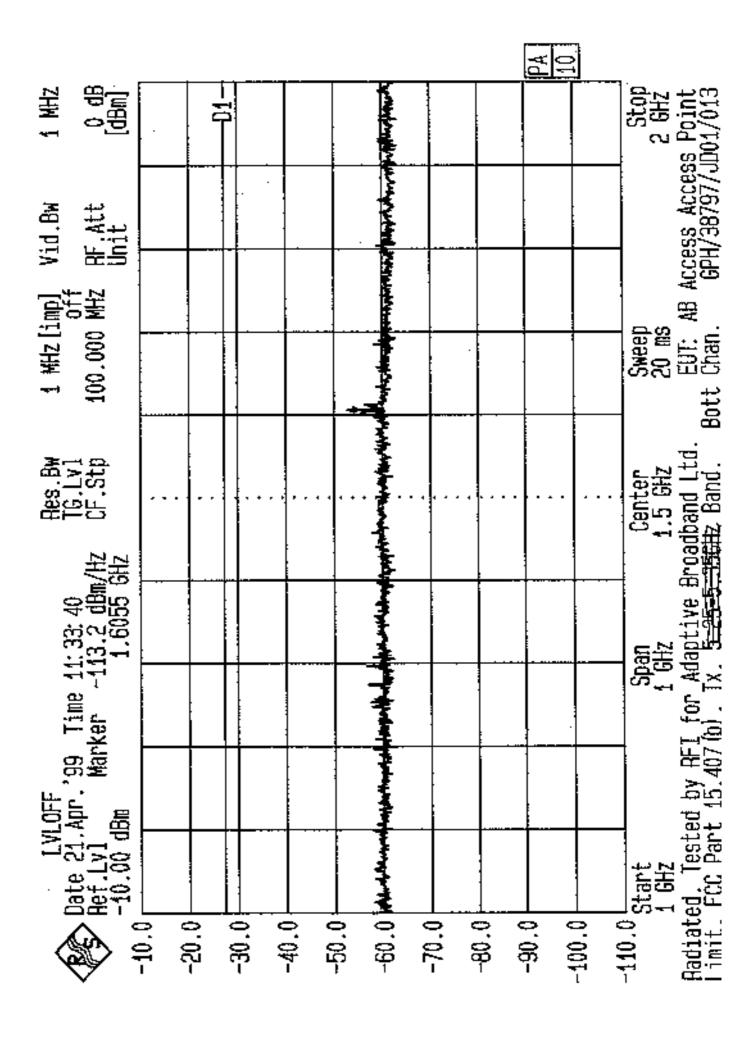
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LVLOFF Spate 21.Apr.'99 Time 11:54:53 Ref.Lvl Marker113.2 dBm/Hz 10.00 dBm 1.2966 GHz					- Constitution					] ⊊₽	Radiated. Tested by AFI for Adaptive Broadband Ltd Limit. FCC Part 15.407(b). Tx. 5.25-5.356Hz Band.
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ਜ. .99 .xan.					1						by RFI 15,407 (
1.V.0 23.Apr 0.Bm					<b>★</b>	+	-	-			ested Part 1
Date : -10.04	:									Start 1 GHz	ed. Te
	-10.0	2.00	20.00	1 0 0 0	0.06-	-70.0	-80.0	0.06-	-100.0	-110.0 Start	Radiat Limit.

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1 MHz O dB [dBm]		Stop 4 GHZ ss Point
Vid.Bw HF.Att Unit	And the second s	Stop S AB Access Access Point
		AB ACC
1 MHz[imp] 0ff 200.000 MHz		Sweep 20 ms EUT:
Res.BW T6.Lv1 CF.Stp	The ball the ball to the ball the ball to the ball the ball to the	Start
Bm/Hz 1 GHz		Broad
1:58:0 115.4 d 3.191		GRZ GRZ daptiv
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0FF pr. '99 Mar	The state of the s	A P
LVLOFF Date 21.Apr.'99 Time 11:58:08 Ref.Lvl Marker -115.4 dBm/Hz -9.50 dBm 3.1911 GHz		tart GHZ J. Teste
		-100.0 -100.0 S Sadjatec

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## ¥							AL PROPERTY.		·				Stop 4 GHZ 38 Point	בי א /דאחו
Vid.Bw	H- Att Unit						STATE OF THE PARTY AND ADDRESS OF THE PARTY AN			<u> </u>			AB Access Access Point	1/16/06/II
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Res.Bw	CF.Stp											.	Start Span Center 2 6Hz 3 6Hz 3 6Hz Hadiated, Tested by RFI for Adaptive Broadband Ltd.	
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LVLOFF • Date 21.Apr. 99 Time 12:01:29	ef.Lv] 9.50 dBr						A CANADA		•		:		Start Start GHz d. Teste	FUC Part
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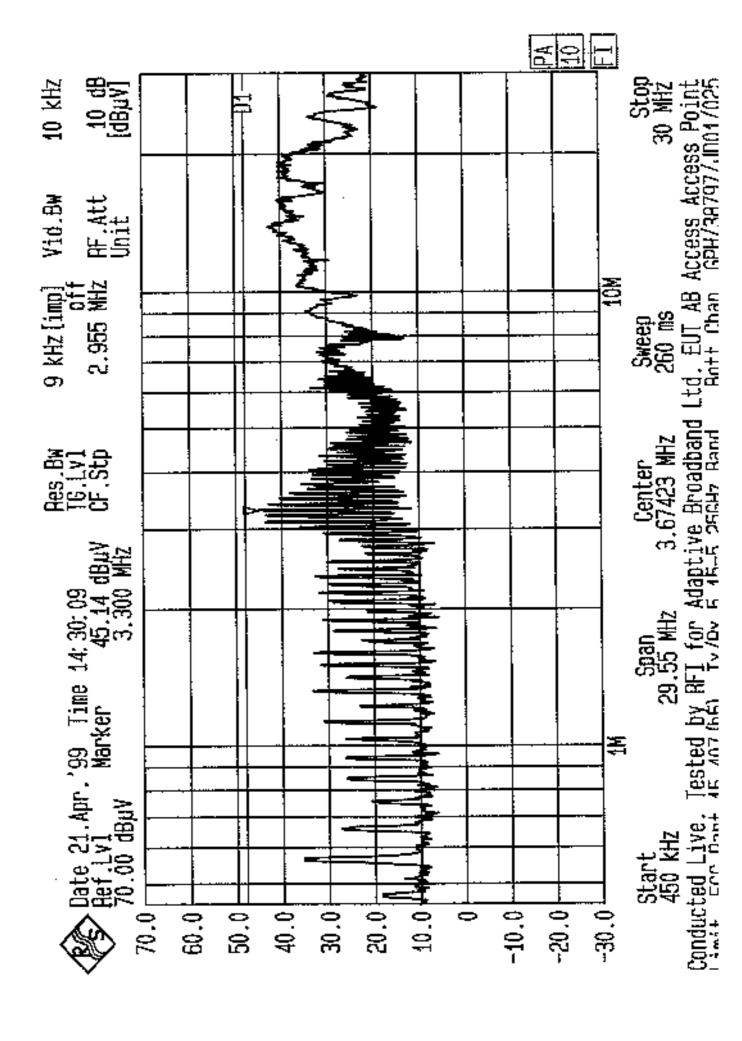
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1 MHz 0 dB [dBm]	Z		And Spirit house			Stop 2 GHz is Point 1001/020
Vid.Bw RF.Att Unit			AV NAME OF THE PARTY OF THE PAR			Stop 2 GHZ AB Access Access Point 1. GPH/38797/JD01/020
			ph.vv.uph			AB Acc
1 MHz [imp] 0ff 100.000 MHz			Harris Park			Sweep 20 ms EUT: Top Chan.
Bes.Bw 16.Lv1 CF.Stp			April Chapter of the Control of the			
3 Bm/Hz 7 GHz			-			Broad 5.356H
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Time 1 Ker −1						St for A (b) Tx
PF. '99 Pr. '89 Mari			***	!		d by RF
LVLOFF Date 21.Apr. 99 Time 12.04:56 Ref.Lvl Marker -113.8 dBm/Hz -10.00 dBm i.3377 GHz			The state of the s			-110.0 Start Span Center 1 6Hz 1.5 6Hz 1.5 6Hz 1.5 6Hz 1.5 6Hz Radiated Tested by RFI for Adaptive Broadband Ltd Limit. FCC Part 15.407 (b). Tx. 5.25-5.356Hz Band.
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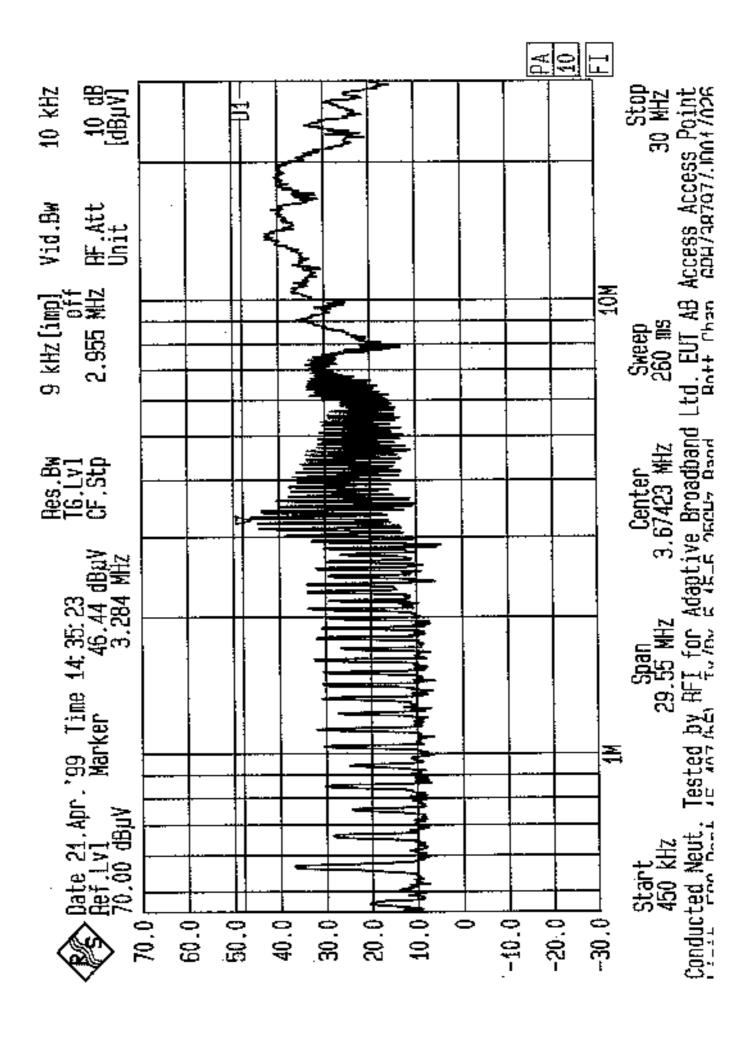
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1 MHz 0 0 [d8m]		-10		LINE JAMES					Stop 2 GHZ 18 Point
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1 MH 100.0								$\dashv$	1 C
Bes.Bw 16.Lv1 CF.Stp		,		ed to the party					Center 1.5 GHz Broadband Ltd.
12 dBm/Hz 966 GHz	<u> </u>			100 M					ive Broad
e 12: 08: -112.4 1.25									Span 1 GHz r_Adapti
99 Tim Marker									, RET, fo
LVLOFF Date 21.4pr.'99 Time 12:08:12 Ref.Lvl Marker -112.4 dBm/Hz -10.00 dBm 1.2966 GHz				- Aller Anna Anna Anna Anna Anna Anna Anna Ann		-			Span 1 GHz Radiated, Tested by RFI, for Adapt
V Date Ref.L -10.0	2 0		0.	0.09	9.	0. 6	3 0	? =	Jiv.v Start 1 GHz Radiate <u>d.</u> Tes
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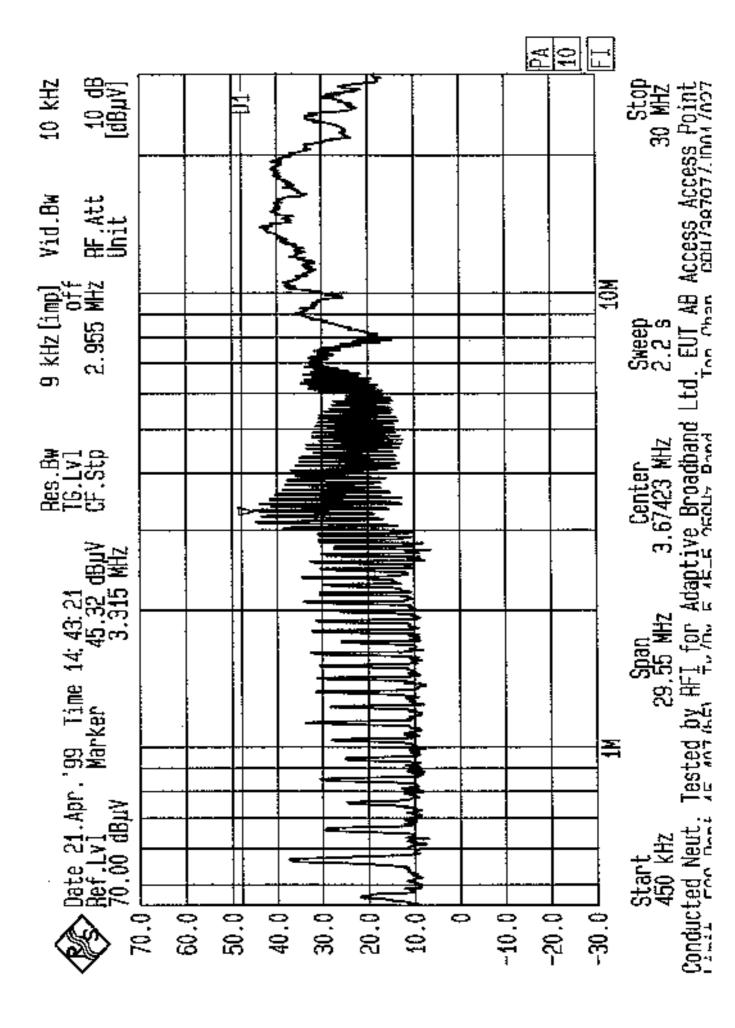
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1 MHz 0 dB [dBm]	1	1	Yaya/ Verbient			Stop 4 GHZ SS Point
Vid.Bw RF,Att Unit			A CONTRACTOR OF THE PARTY OF TH			Stop 4 GHZ Access Point CDU/28707/.Inc//022
ŀ			the state of the s			₩
1 MHz[imp] Off 200.000 MHz			Address of the state of the sta			Sweep 20 ms EUT: EVT:
Res.Bw TG.Lv1 CF.Stp			Polyter Andrewsky			Center 3 GHz tive Broadband Ltd.
7H2 6H2						Broad Floor
7. 11: 36 15.8 dB 3.2911			edliquets.			an Hiz laptive
Time £				 		2.5 for Ac
7F. '99 Mari			Tarke Tark			d by AFF
LVLOFF Date 21.Apr. 99 Time 12:11:36 Ref.Lvl Marker -115.8 dBm/Hz -9.50 dBm 3.2911 GHz						Start 2 GHz ed., Tester
	20.05	-30.0	-50.0	-/- -/	-100.001-	Start Start 2 GHz Radiated, Tested by AFI for Adap

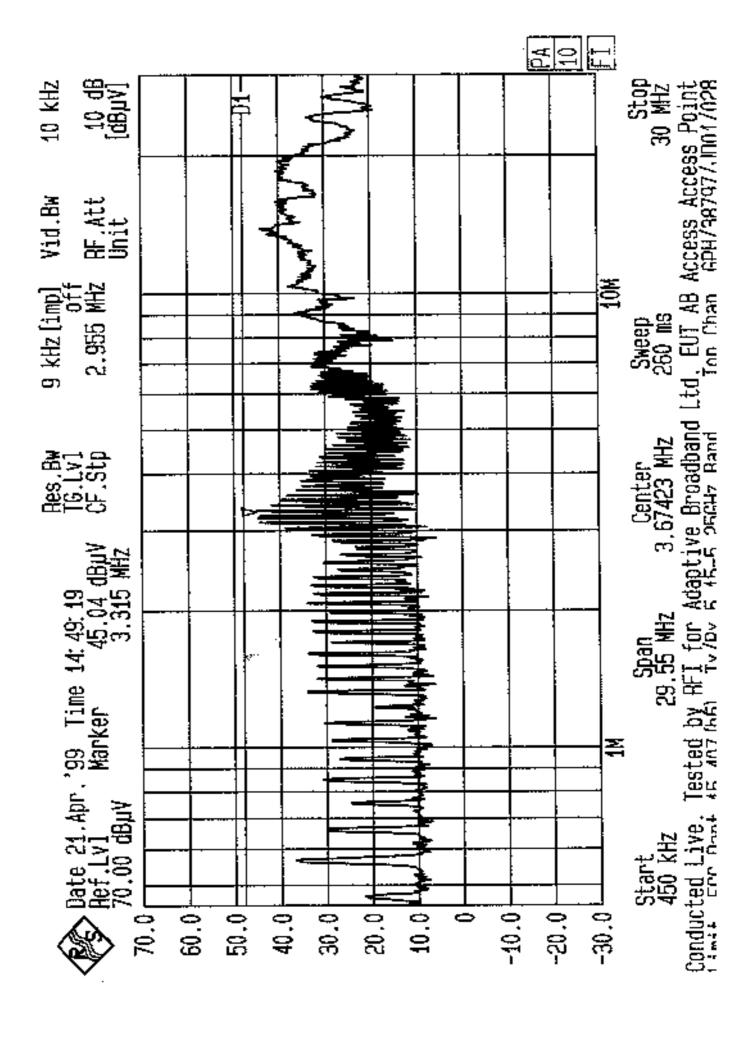
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1 MHz		- 101			**************************************					Stop 4 GHZ ss Point Inn4/623
Vid.Bw RF.Att Inii					A CONTRACTOR					Stop 4 GHZ Access Access Point GPH/38797/.IDn1/023
					Tar-Harve				. <u></u>	AВ
1 MHz[imp] 0ff 200.000 MHz					Hereth Life Col					Sweep 20 ms EUT: Ton Chan
Res.Bw TG.Lv1 CF.Stp					Anthony of the Park			* * • •		Start Span Center 2 GHz 3 GHz Padjated. Tested by RFI for Adaptive Broadband Ltd.
Bm/172	3				100					Broad
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Time 12 cer –1										25   2   for Ac
77. 1.99 1.88					A-Marketin					by RFJ
LVLOFF  Date 21.Apr. '99 Time 12:14:56  Ref.Lvl  Abreker -115.2 dBm/Hz					SHAPANA.					Start 2 GHz ed. Tester
	-10.0	Si 8	) 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	-50	90.09	-70.0	<u> </u>	0.081		St Padjated

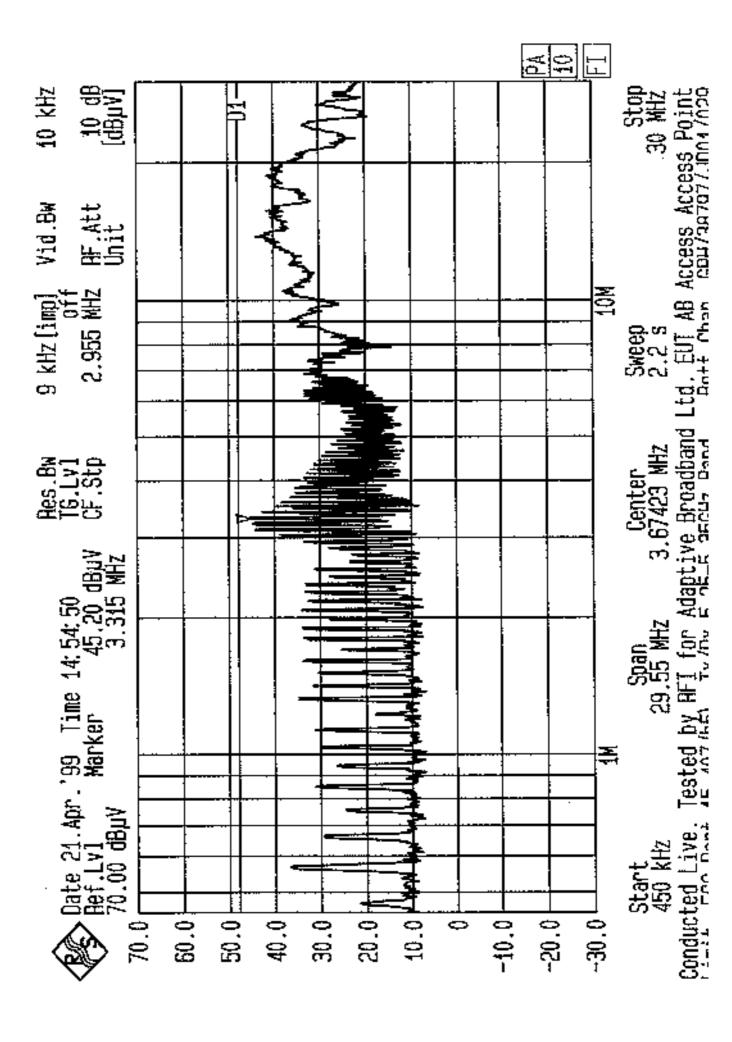
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1 MHz 0 dB [dBm]		- I C		A Personal Cal			:	Stop 2 GHZ S Point
Vid.Bw RF.Att Unit				Policie de la constante de la	,			Stop 2 GHz 3 Access Point 2 CDU/38707/.Inn4/n24
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1 MHz[imp] 0ff 100.000 MHz				House the said				Sweep 20 ms Ton Chan
Res.Bw TG.Lv1 CF.Stp				To the second second second				Span Center Span Center 1 6Hz 1.5 6Hz Adaptive Broadband Ltd.
5 Bm/Hz 6 GHz			:					Broad
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.'99 Time 12:18:15 Marker -112.6 dBm/Hz 1.2966 GHz								5 1 1, for A
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Date 21.Apr. Ref.Lvi				April profession of the				Start 1 GHz 1d. Teste
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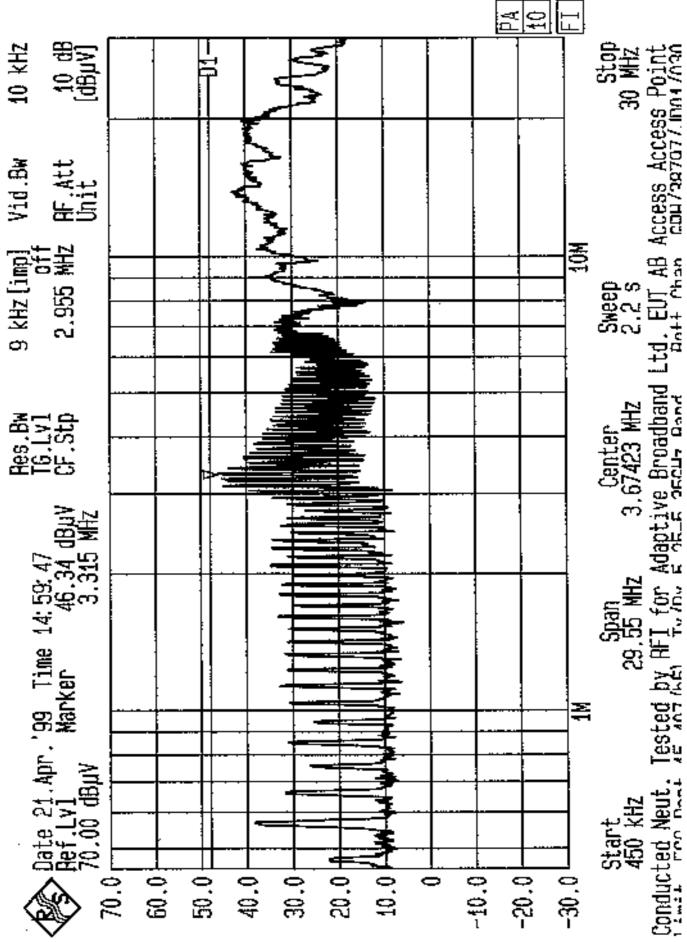


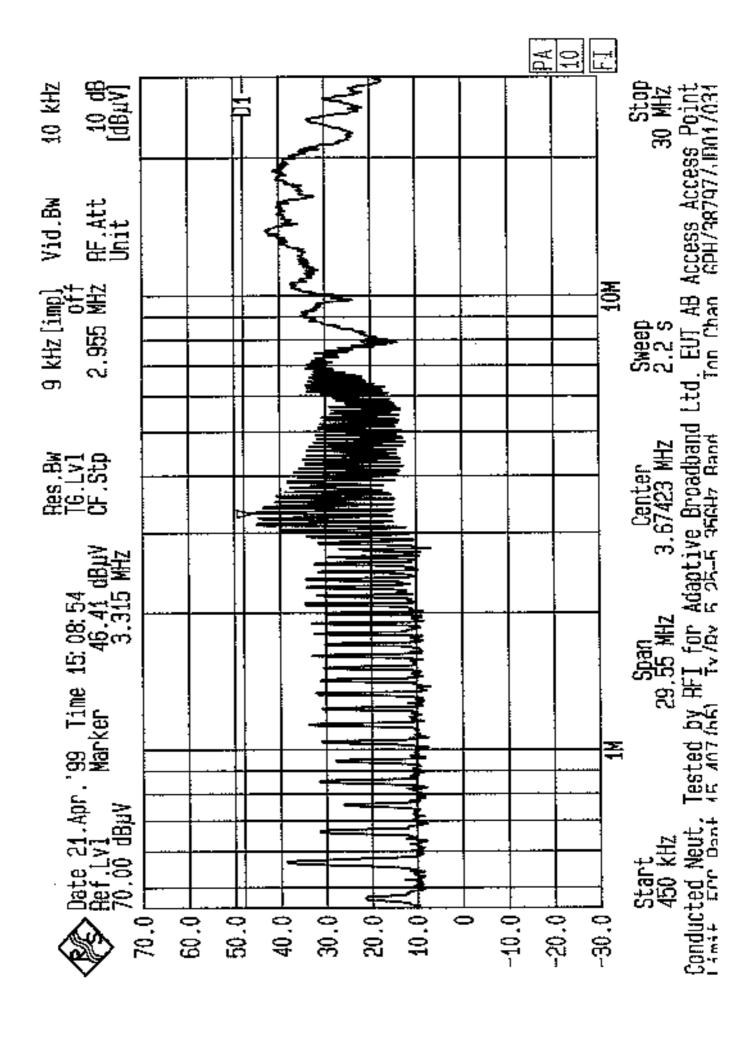


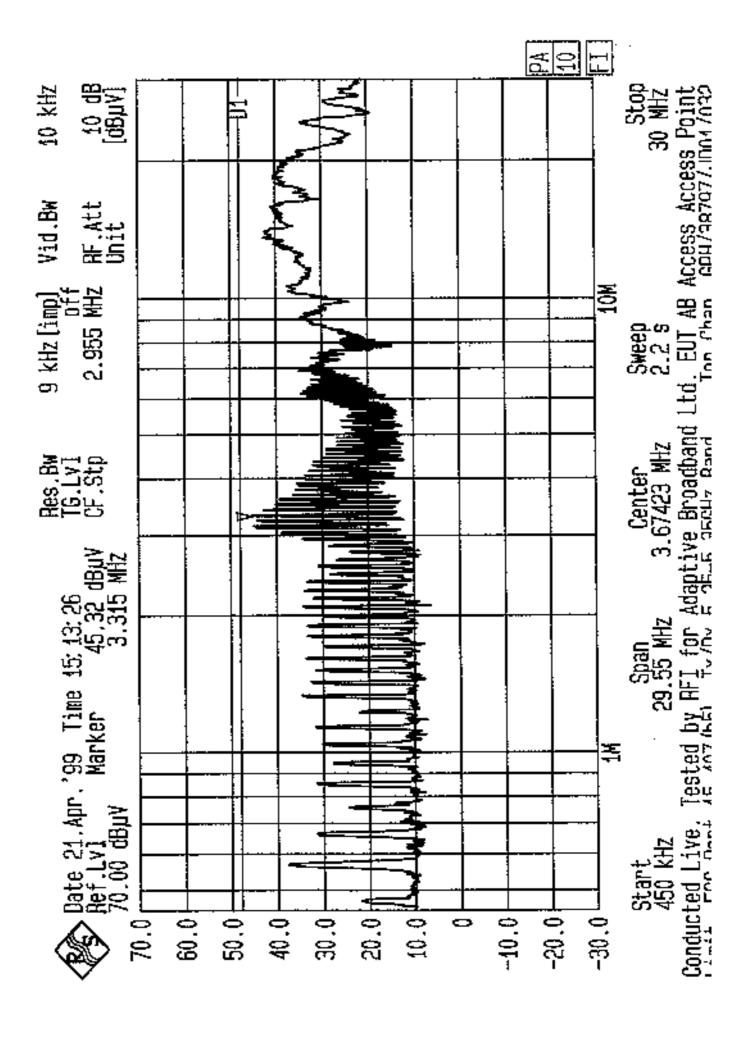


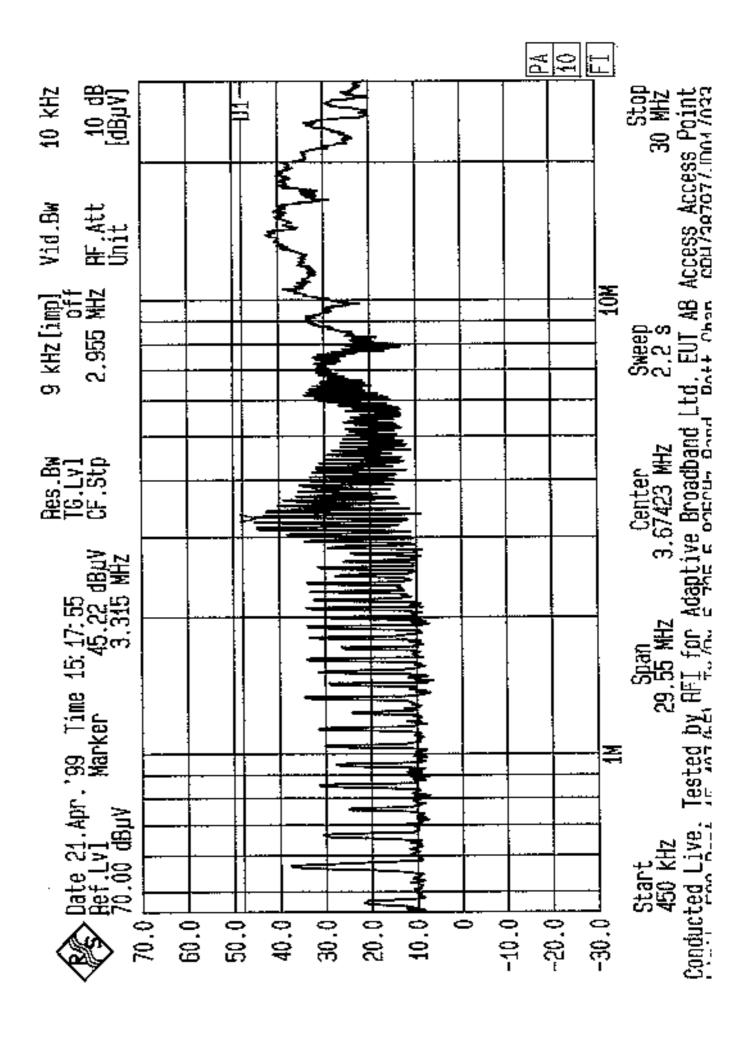


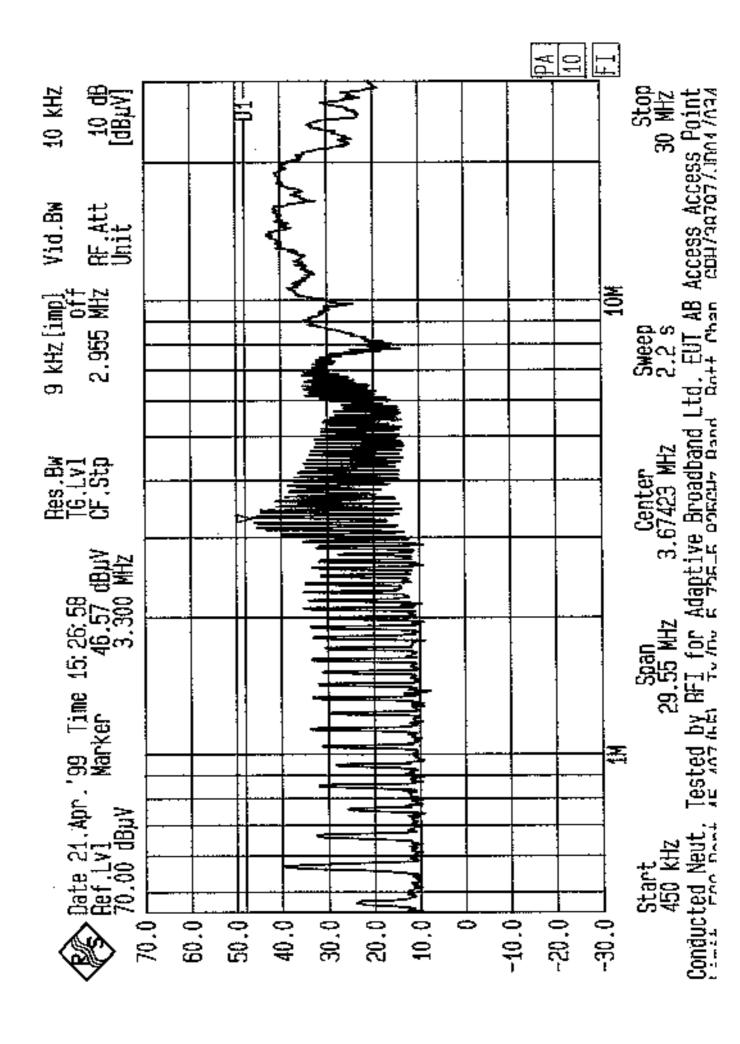


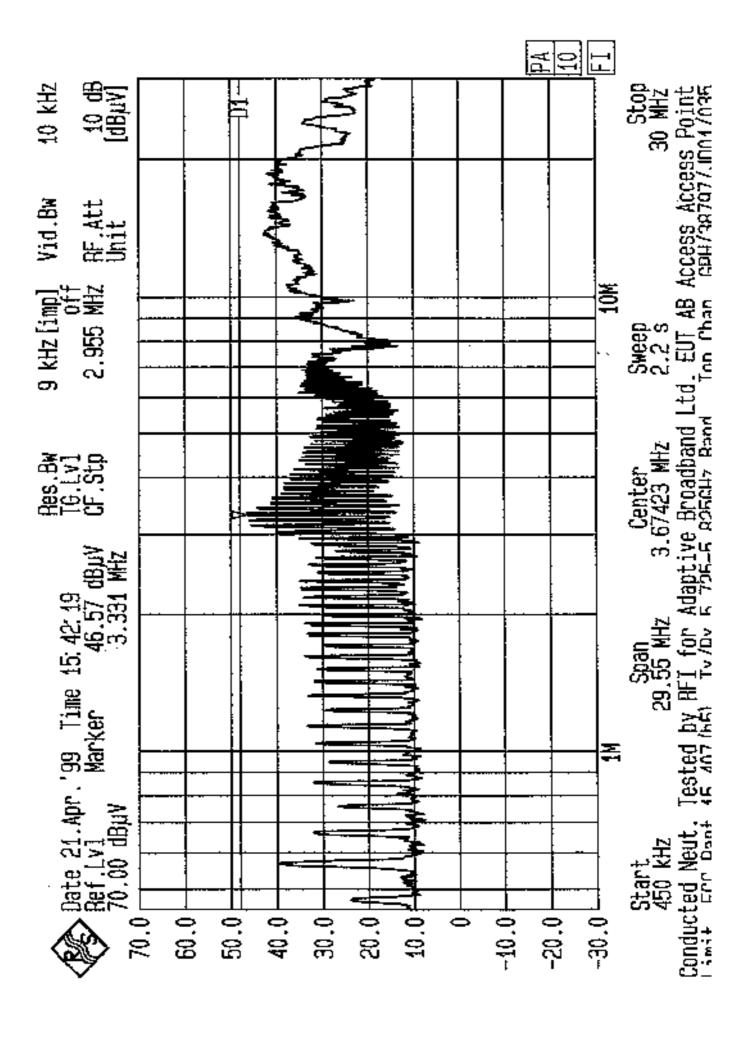


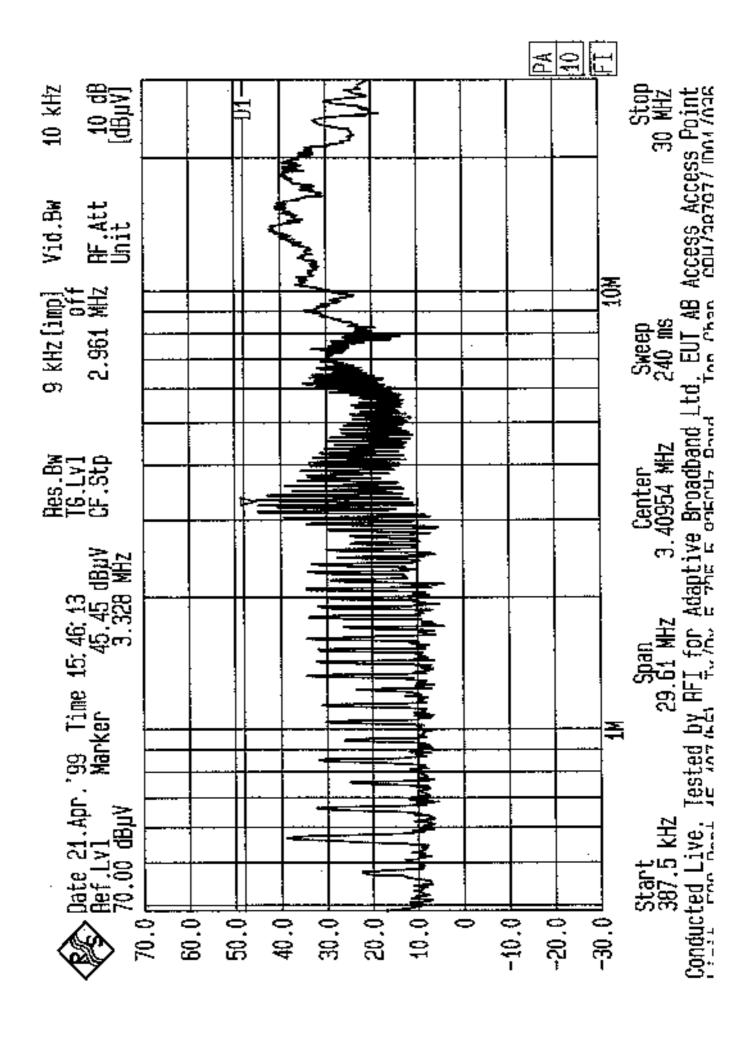


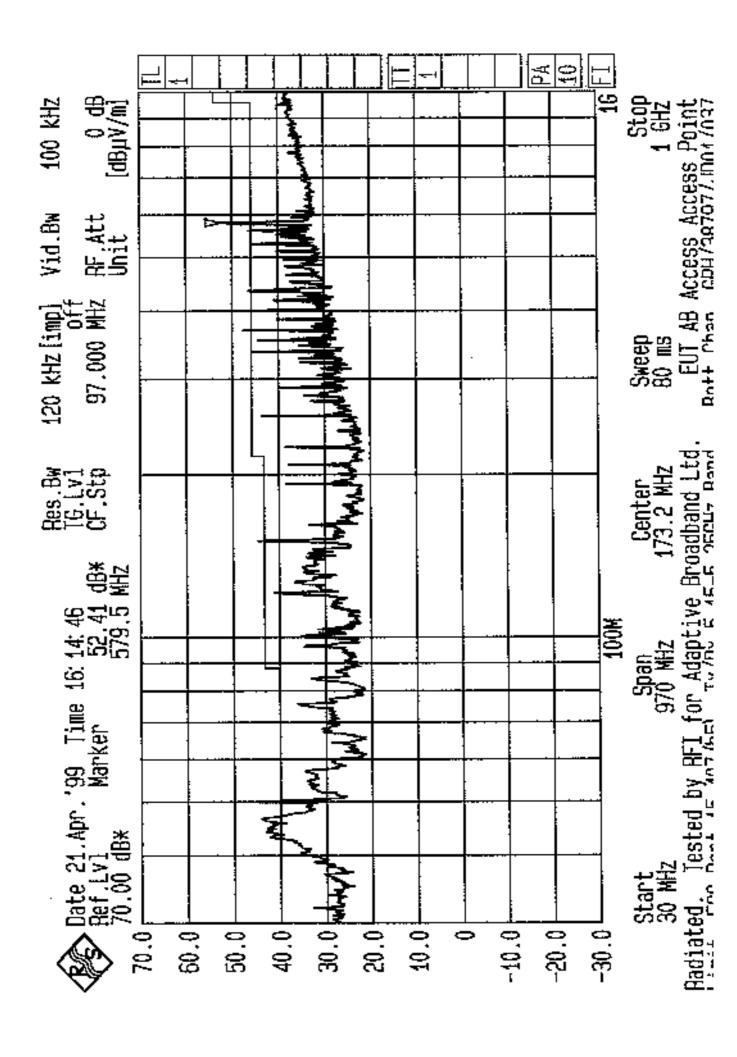


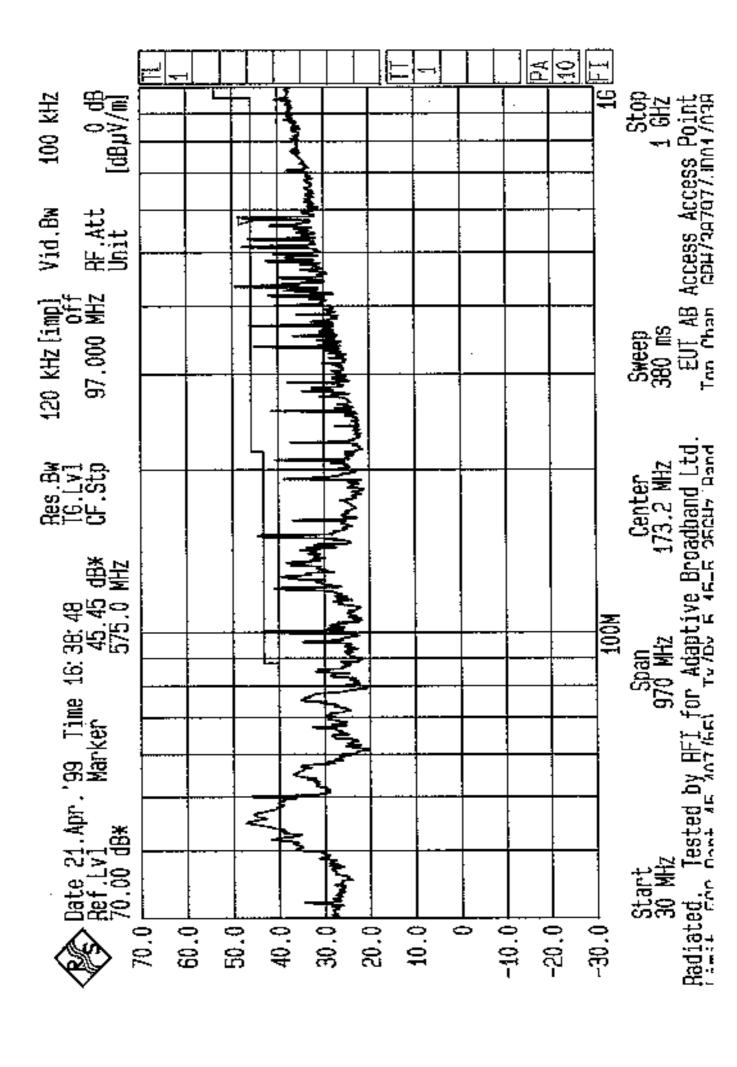


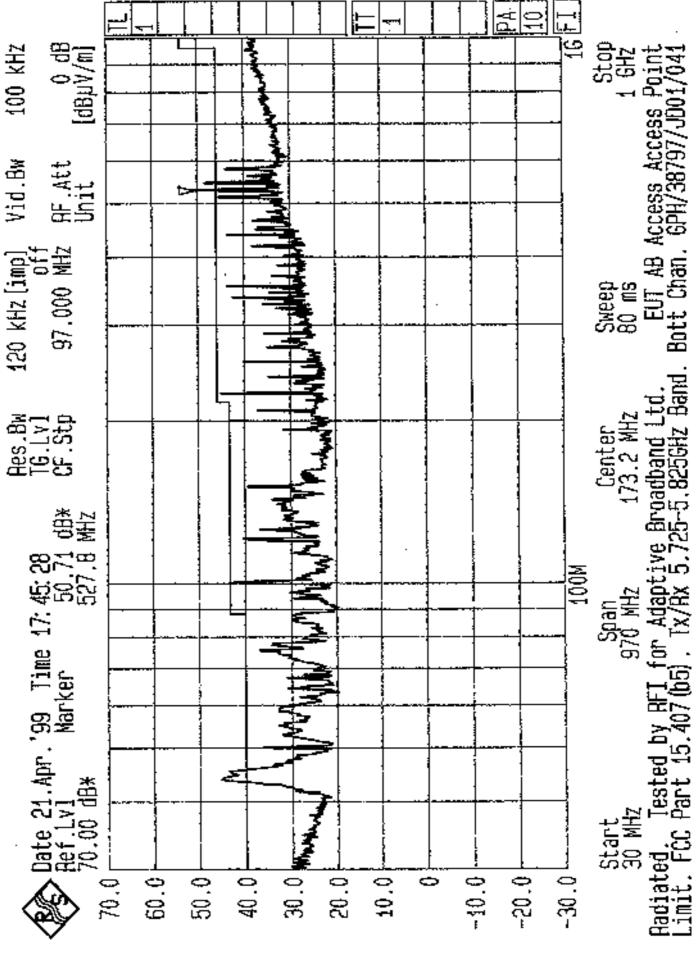


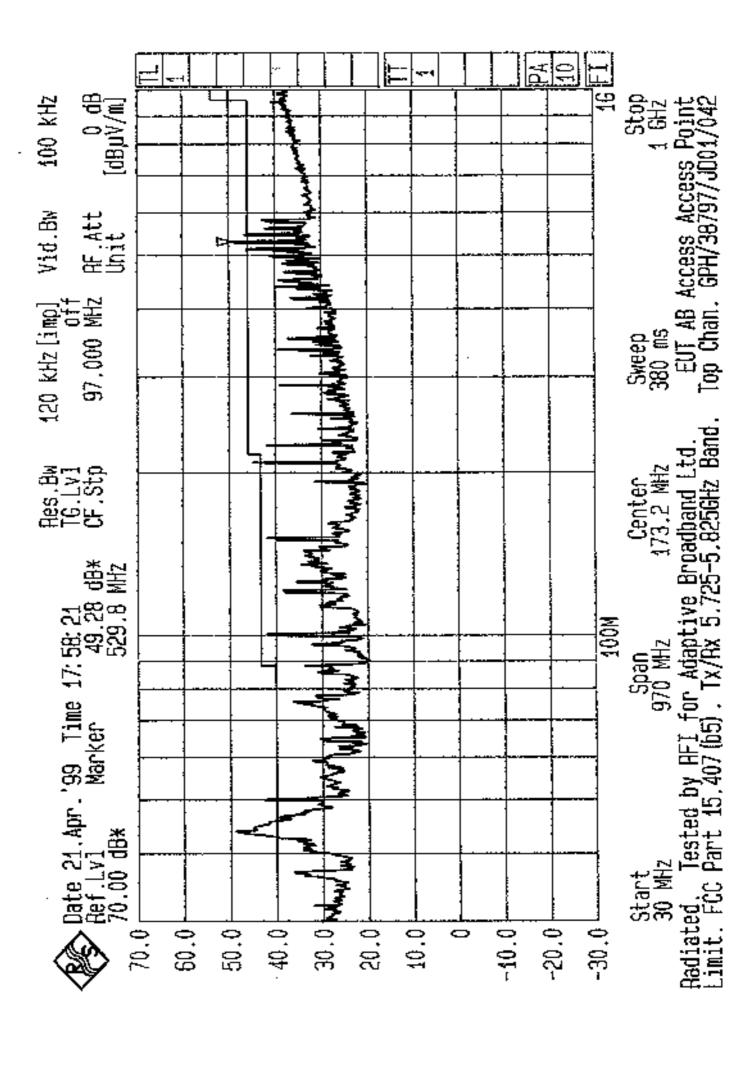




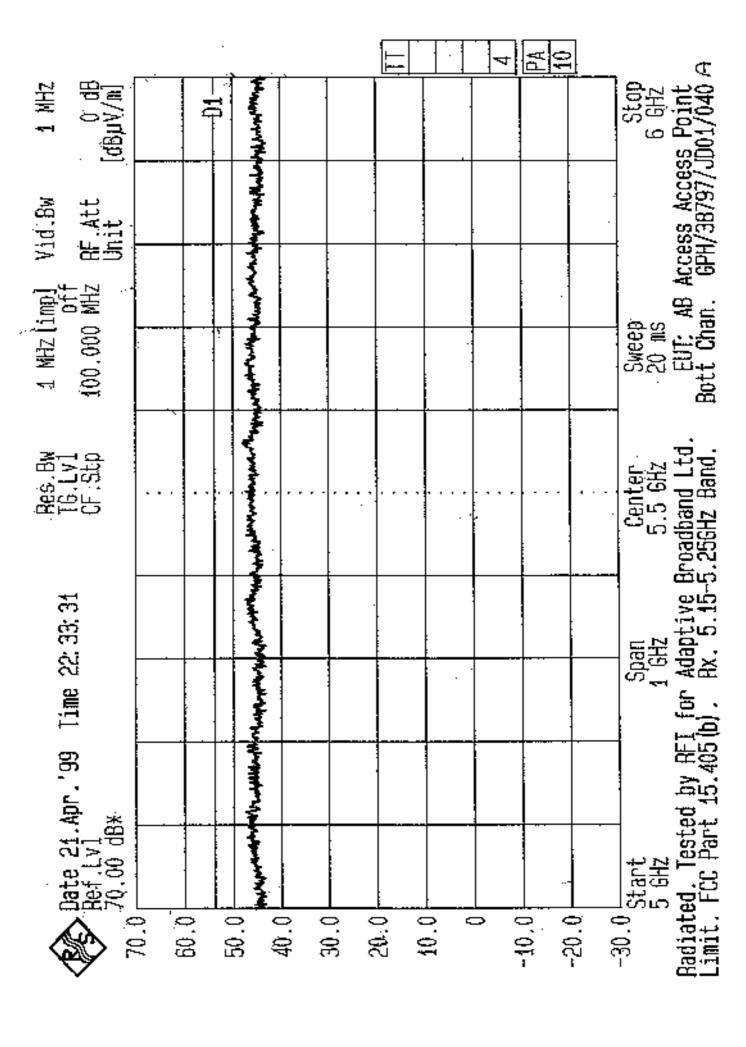




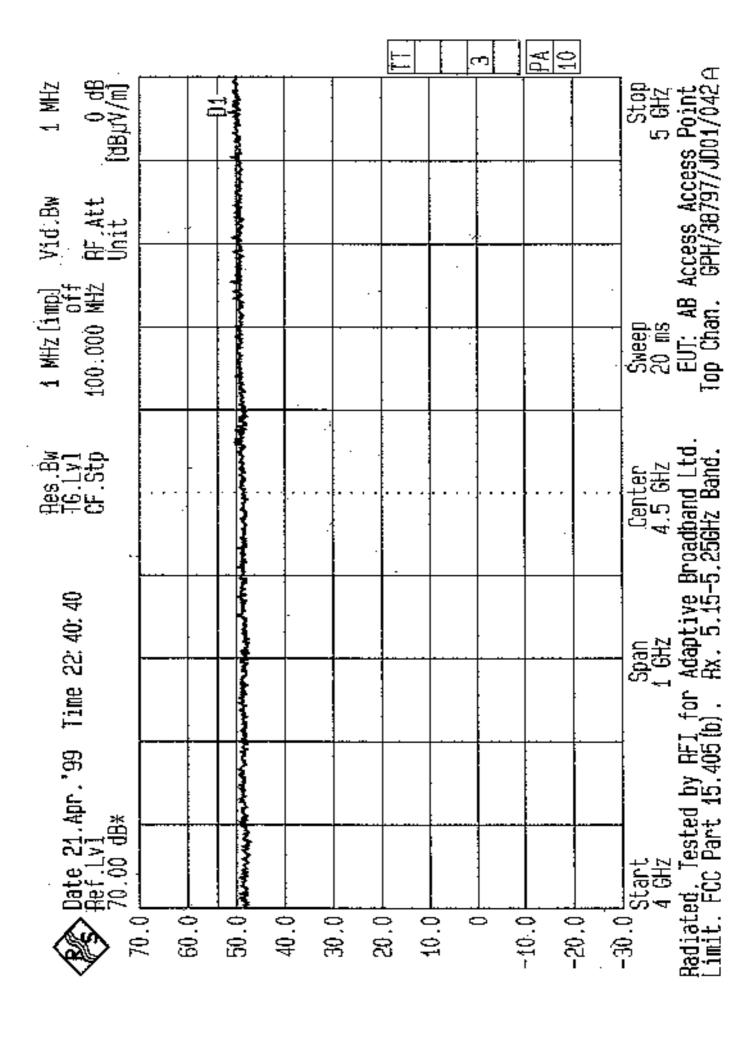




1 MHZ 0 dB [dB,UV/m]			Stop 5 GHZ Point 01/039 A
Vid.Bw RF.Att Unit			sess Access PH/38797/JD
1 MHz [imp] off 190.000 MHz			Sweep 20 ms 20 ms EUT. AB Access Access Point Bott Chan. GPH/38797/JD01/039
Hes Bw 1 TG.Lv] CF.Stp 10			
			-30.0 Start 4 GHz Adjated. Tested by RFI for Adaptive Broadband Ltd Limit. FCC Part 15.405(b). Rx. 5.15-5.256Hz Band.
Time 22:30:24			Span 1 GHz for Adapti (b) . Rx. 5
> Date 21.Apr.'99 T Ref.Lv] 70.00 dB*	The state of the s		sted by RFI art 15,405
Date 2 Pef.Lv 70.00	70.0 50.0 30.0 30.0	20.02 10.01 10.00 -20.0	-30.0 Start 4 GHz Radiated, Tes Limit, FCC Pa



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1 MHz Ø dB [dBjaV/m]	134	To the state of th				Stop 6 GHz ss Paint JD01/041
Vid.Bw. RF,Att Unit		###				Sweep 20 ms EUT: AB Access Access Point Top Chan. GPH/38797/JD01/041
		4				AB Ac
1 MHz[imp] 0ff 100.000 MHz		Page and a second				Sweep 20 iiis EUT: Top Cha
Res.Bw 16.1vl CF.Stp		Address Space Space Control of the C				Center Z 5.5 GHz ptive Broadband Ltd. 5.15-5.25GHz Band.
Time 22:37:24		Se quero tablesija odroba				Span 1 GHz for Adaptive Br 0). Rx. 5.15-5.
> Date 21.Apr.'99   Ref.Lv] 70.00 dB*		And the second				-30.0 Start 5 GHz Badiated, Tested by RFI for Adap Limit, FCC Part 15.405(b). Rx.
)ate 21./ Pef.[v] 70.00 dB		- And Application	. :.			Start 5 GHz 3d. Teste FCC Part
	0.09	50.0	30.0	10.0	-10.0	-30.0 Start 5 GHz Radiated, Tes Limit, FCC Pa



00, 22, 10, 21,	1. C.	Res.Bw	1 MHz [imp] Vid.Bw	1 MHZ
Verte 21. April 33 P Ref. Lv1 70.00 dB*	LINE CC. 44. 10	CF. Stp	100.000 MHz RF.Att Unit	0 dB [m/\rdgb]
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-30.0 Start	Span	Center 4.5 GHz	Sweep 20 ms 5 GHZ	Stor 5 GHZ
Tested by R	Radiated. Tested by RFI for Adaptive Broadband Ltd	roadband Ltd.	EUT: AB Access Ac	cess Point 77.1004/043
CC Fdf't 10.4V	J(U). TA. J.C.	ייטטטונק המונקיי	ממני מניתור לו לי מילי	~ ^ / * A A A A A / A

1 WHz 0 dB LtV/m]		ŧ			4 2 3	<del></del>
2 MHZ 0 GB [m/VigBb]		Art Art				S 6 6 6 6 101 // //
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Vid.Bw RF,Att Unit		*				ssaction (CCess
[jimp] @ff 0 MHz		1				
1 MHz [imp] 100.000 MHz		April 1942		· [		Sweep Sucep 20 ms EUT: AB Access Access Point Rott Chan GDH/38797/. B017/044
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Res.Bw TG.Lvl Cf.Stp		3		ļļ.	,	anter 5 GHz Ind Lt
		A STATE OF THE STA				Center 5.5 GHz Broadband Ltd.
21		The state of the s				3.4. 9.4.
22: 47		train in				Span 1 GHz Adapt
Time 22:47:		*				-20.0 Start 5 GHz Radiated Tested by RFI for Adaptive
86		Taranta de la composition della composition dell				y RFI
Apr. B*		3				ted t
> Date 21.Apr. 99 Ref.Lv] 70.00 dB*						GHZ GHZ GYZ GYZ GYZ GYZ GYZ GYZ GYZ GYZ GYZ GY
	2.0:09	0.09 0.04 8	2 0 0	<u> </u>	-10.01	30.0 Start 5 6Hz Badjated, Tes
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											7 7	10		
1 MHZ 0 dB	[dBjuV/m]			3	***									Stop 6 GHZ Ss Point JD01/045
Vid.Bw RF.att	Unit	<del> </del>			Apartage radion of		i i							Stop 6 GHZ B Access Point 6PH/38797/JD01/045
[ab] 是 第	ļ.				- 									AB AC
1 MHZ[imp] 1 00ff					أوريده المساء والماد	-								Sweep 20 ms EUT: AB Top Chan.
Res.Bw TG.Lv] CF.Stn					***************************************								• • •	-30.0 Start 5 GHz Span 1 GHz 5 GHz Figure Adaptive Broadband Ltd. Limit. FCC Part 15.405(b). Rx. 5.25-5.35GHz Band.
50; 45					<u>}</u>	:								n 12 12 15,25-5
Time 22;50;					Transfer of				:					Span 1 GHz for Adap
4pr., 199	*				Andrew Contract									d by RFI
> Date 21.Apr.'99 .	70.00 dB	-		,	The sales of the									Start 5 GHz 3d. Teste FCC Part
	\ \ \ \ \ \	0.00	) ) ) )	50.0	9	40.0	<del>0</del>	20.0	10.0	Ô	-10.0	-20 0	2 6	-30.0 Start 5 GHz Radiated, Tes Limit, FCC Pa

				E 400	_
1 MHz 0 dB [dBµV/m]	15				Stop 5 GHZ SS Point 7001/046
Vid.Bw AF.Att Unit			-		Sweep 20 ms 20 ms EUT: AB Access Access Point Top Chan. GPH/38797/JD01/046
1 MHz[imp] Off 100.000 MHz					eep Ins IT: AB Ac Chan. E
1 MH 100.(	-	A COLON			表於亞 <sub>區</sub>
Res.Bw TG.Lv1 CF.Stp					enter 5 GHz and Ltd. 2 Band.
					-5.356H
Time 22:54:07			!	<u> </u>	opan GHZ Adaptive Rx 5.29
					Fig. for
.Apr. 199 3*		Programma and a second			ed by R
Date 21.Apr. '99 Ref.Lvl 70.00 d8*		A-december			-30.0 Start Span Center 4 6Hz 4.5 6Hz Radiated. Tested by RFI for Adaptive Broadband Ltd imit FCC Part 15 405 (b) Rx, 5.25-5.356Hz Band.
	0.07 60.09	30.0	20.0 10.0	-10.0	-30.0 Radiat

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1 MHz (dB UV/m]		-10							!		Stop 5. GHZ ess Point /JD01/047
Vid.Bw AF.Att Unit									-		Sweep 20 ms 5. GHz EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/047
imp] Off MHZ										1	# <del>25</del> H
1 MHz[imp] 0ff 100.000 MHz									·-		Sweet 20 ms EUT: Bott Chi
Res.Bw TG.Lvl CF.Stp		- 1 1			:						Center 4.5 GHz ive Broadband Ltd. 725-5.825GHz Band.
14			*								.ve Bri
සි ව			1								Span 1 GHz Adapti Rx 5
Time 22:58:			Production of the Control of the Con								for A
<u>8</u>			•			<u> </u>			<del> </del>		9y BFI
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Date 21.Apr. 99 . Ref.Lvl 70.00 dB*			Year of the second								Start 4 GHz ed. Tes FCC Pa
	9.07	2.00	0.00	20.00	30.0	0.00	0.01	<del></del>	-10.0	-20.0	-30.0 Start 4 GHz Agdiated. Tested by RFI for Adapti limit FCC Part 15 405 [b] Rx 5.

CF. Stp	100.000 MHZ RF.Att Unit	RF,Att 0 dB Unit [dBµV/m]
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Center 5.5 GHz ve Broadhand (td.	Sweep 20 ms EUT: AB Access A	Str 6 GH ccess Poir
	Center 5.5 GHz band.	Sweep 20 ms ac Girl. AB Ac Gir

						<u></u>		4	PA #0		
1 MHZ 0 dB [dBjuV/m]			Mary and Park Mary								Stop 6 GHZ 35 Point 3001/049
Vid.Bw PF.Att Unit			- Carles de Carles								Sweep 20 ms EUT: AB Access Access Point Top Chan. GPH/38797/JD01/049
			Arrighter's								AB Acc
1 MHZ[imp] 0ff 100.000 MHZ			Carles of Bry	_							Sweep 20 ms Top Cha
Hes.Bw TG.Lv] CF.Stp			A September of the sept						,		-30.0 Start Span Span Center 5 GHz 5.5 GHz Adaptive Broadband Ltd. Adaptive Broadband Ltd. Limit. FCC Part 15.405(b). Ax. 5.725-5.825GHz Band.
3: 13: 05			The same								an SHZ Japtive B (, 5,725-
Time 23:13:			for depth of the								Span 1 GHz I for Adap (b) Rx.
Apr.'99 *			Angelypooline								ed by RF t 15.405
> Date 21.Apr.'99 Ref.Lv] 70.00 dB*			AND PARTY AND PROPERTY.			•					Start 5 GHz od, Testi FCC Pari
	2. 6	3 6	2.00	5. c.	30.00	2.00	2.01	<b>&gt;</b>	-10.0	200	-30.0 Start 5 GHz Aadiated, Tes Limit, FCC Pa

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1 MHZ 0 dB [dBµV/m]		- F					~ <u>)</u>	¥ 9		Stop Soint 7050
Vid.Bw AF.Att Unit [dB										Sweep 20 ms EUT: AB Access Access Point Ton Chan GPH/38797/, NO1/050
1 MHz [imp] V: 0ff 100.000 MHz RF		-				:			<del>-</del>	eep IIIS AB Acce
		The state of the s		-						25 47 47 EL CO 38 19 19 19 19 19 19 19 19 19 19 19 19 19
Res.Bw TG.Lv1 CF.Stp		Particular Services								1 男/表
Time 23: 16: 26		aproximation and								Span 1 GHz Adaptive P
'99 Time		According to the second	-							N RFI for
> Date 21.Apr.'99 Ref.Lvl 70.00 dB*		- Anna Parish and Anna Parish								-30.0 Start 4 GHz A GHZ
	0.09	20.0	40.0	30.0	20.0	10.0	<del>5</del>	-10:01	-40.0	-30.0 Start 4 GHz Radiated. Tes

Apr.'99	1 Time 23: 20: 21	Res.Bw 16.Lv1	1 MHz [imp] Vid.Bw Off	
Ref.Lvi 70.00 dB*		CF.Stp	220.000 MHz RF.Att Unit	tt 0 dB [dBµV/m]
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sted by A	Span 2.2 GHz FI for Adaptive I	1 42 775	Sweep 20 ms 8.2 GHZ EUT: AB Access Access Point	Sto 8.2 GH; Access Poin
Start 6 GHz Radiated. Tested by A Limit. FCC Part 15,40	Radiated, Tested by RFI for Adaptive Broadband Limit, FCC Part 15, 405 (b). Rx. 5,725-5.8256Hz	7.1 6Hz Proadband Ltd. 5.8256Hz Band.	20 ms EUT: AB / Top Chan.	Access GPH/36

00 to 20 100	7.50 00.1	Res. By	1 MHz [imp]	V10.BW	1 MHZ
Mare Zi.Apr. 33 Ref.Lvl 70.00 dB*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CF.Stp	220,000 MHz	RF.Att Unit	0 dβ (π/Ληdβb)
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-30.0 Start	25 can	Center 7 1 GH7	Sweep		Stor
Radiated. Tested by RFI for Adaptive Broadband Limit For Dart 15 Ans (h) By 5 725-5 8256H7	FI for Adaptive	Broadband Ltd. -5 825647 Rand	EUT: AB Access Access Point Bott Chan GPH/38797/JD01/052	ccess Acce	ss Point

.Bw 1 MHz att 0 dB. t [dBµV/m]	edistrict protection in		Stop 8.2 GHz Access Point
1 MHz[imp] Vid.Bw Off 220.000 MHz RF.Att Unit	Application of the state of the		Sweep 20 ms 8.2 GHz EUT: AB Access Access Point
Bes.Bw TG.LvI CF.Stp	When in the forest of the same		Center 7.1 GHz Froadband Ltd.
Time 23:30:48	And the second s		-30.0 Start Span Center 5.2 GHz 7.1 GHz Radiated. Tested by RFI for Adaptive Broadband Ltd
Date 21.Apr. '99 Ref.Lvl 70.00 d8*	A plante and the second		-30.0 Start 6 GHz Radiated, Tested by RF

1 MHZ 0 dB [dBµV/m]		1 ;	1 1 1	1 1	<u>रुक्त न्द्र</u> €
	- 10-		1		8.2 Pg. 59.7
Vid.Bw RF.Att Unit	100				ess Acc
į.	Arangag.				AB Acc
1 MHz [imp] 0ff 220.000 MHz	A. Shark replansive				Stop 20 ms 20 ms EUT: AB Access Access Point Top Chan GOH/38707/. Doi/1055
Hes.Bw TG.Lv1 CF.Stp	The second section is a second se				Center 7.1 GHz Broadband Ltd.
39: 41	Part Part Land				offz aptive Bro
Time 23:39:41	Andrew Salar				Span 2,2 GHz for Adapt
pr. '99	Married Married				d by RFI
► Date 21.Apr. 99 Ref.Lv1 70.00 dB*	and the state of t				Span 6 GHz Badiated, Tested by RFI for Adaptive

220.000 MHz RF.Att	mgβ
Avitable - Constant Contraction	
Meridian descriptions of the state of the st	- 1-1-
Andreas Andrea	The state of the s
And her desired to the state of	(Parally of Apple
Sweep 20 ms	Stop 8.2 GHz
EUT: AB Access A ntt Chan GPH/387	დინავ Poin 97/,∏01/05
	Sweep 8.2 GHZ Bott Chan, GPH/38797/JD01/056

								m	P. A. C.		
1 MHZ 0 dB [dBjJV/m]	-11-	And before water the ball									Sweep 40 ms 40 ms EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/057
Vid.Bw RF.Att Unit		and the state of the				i	<u> </u>		<u> </u>		ccess Acc
imo] Off MHZ		<b>3</b>									AB A
1 NHz[imp] Off 430.000 MHz		e de la composition della comp									Sweep 40 me EUT: Bott Chi
Res.Bw 16.Lv] CF.Stp		January Company	- , , ,								Center 10.35 GHz Broadband Ltd. -5.25GHz Band.
dB* GHZ		1									3.23g
		- Silveritable									z tive 5.45
Date 22.Apr.'99 Time 01:47:04 Ref.Lvl 70.00 dB* 8.5344		**********			:						-30.0 Start 8.2 6Hz Radiated. Tested by RFI for Adap
r. '99 Mar		- Christian	•								by RF 15.405
22.4p .v] .dB*	$\prod$	- A	·				:	<u> </u>	-		oHz ested Part
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	70.07	0.00		40.0	9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9	20.02	10.0	0	-40.0	6.65 6.65	-30.0 Start 8.2 GHz Radiated. Teste Limit. FCC Part

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4 MHz (dBµV/m)	-01	e-sectivity strate		<del> </del>	 					Stop 12.5 GHZ 3 Access Access Point 6PH/38797/JD01/058
Vid.Bw FF. Att Unit		phone in a second	-	+-		! !				Access Acc 6PH/3879
1 MHz [imp] 0ff 430,000 MHz		print de la companyo	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>		 	Sweep 40 ms EUT: AB Top Chan.
1 MH 430.0		Sales Artists		!		<u> </u>	<u> </u>	<u> </u>	<u>.</u>	-
Res. Bw TG. Lv1 CF. Stp		Mark Herton					  - 			Center 10.35 GHz Broadband Ltd. -5.25GHz Band.
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		Author/Septe				 		_	<u> </u>	Span 4.3 GHz or Adaptive Rx. 5.15-
Date 22.Apr.'99 Time 01:55:51 Ref.Lv] 70.00 dB*		Jana de la constitución de la co								-30.0 Start 8.2 GHz  Radiated Tested by RFI for Adapt Limit. FCC Part 15.405(b). Rx. 5
 88≅		SE STATE OF								d by B
22. Apr V] dB*	-		_		-		+		-	offiz GHz Tester Part
Date Ref.L 70.00		A PARTY	_							OStar 8.2 Ited. FCC
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	, <u>-</u>			
AMY (GB) (GB) (GB) (GB) (GB) (GB) (GB) (GB)				Stop 12.5 GHZ 38 Point 3001/059
Vid.Bw BF.Att Unit				ess Acces H/38797/
				. 68 . 69
1 MHz [imp] - 0ff 430.000 MHz	To the said of the			Sweep 40 ms EUT: AB Access Access Point Bott Chan, GPH/38797/JD01/059
Res.Bw TG.Lvi CF.Stp				Center 1.35 GHz pand Ltd. 4z Band.
<del>*</del>	<b>4</b> 9			10 3road 5,356
54.41 54.41 8.7351	Att. of the state			antive aptive 5.25-
Time 02	Postpoenski pe			for Ad
pr. '99 Mari	\\\\			d by RF1
Date 22.Apr.'99 Time 02:01:23 Ref.Lvl 70.00 dB* 8.7351				-30.0 Start 8.2 GHz Radiated Tested by RFI for Adaptive Broadband Ltd Limit FCC Part 15.405(b). Rx. 5.25-5.35GHz Band.
95 0.0	90.0° 0.0° 0.0° 0.0° 0.0° 0.0° 0.0° 0.0°	20.02	-10.05	-30.0 Start 8.2 GHz Radiated, Test Limit, FCC Part

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1 MHz 0 dB [dBµV/m]	10	rigis (chronistanspar)									Stop 12.5 GHz ss Point J001/060
Vid.Bw RF.Att Unit		Maje Propriet									Sweep 40 ms EUT: AB Access Access Point Top Chan. 6PH/38797/JD01/060
		New Property Page									AB Acc
1 MHz[imp] off 430.000 MHz		wantigriji-aje									Swee 40 m Top Ch
Res.Bw TG.Lvl CF.Stp		gorphistocompression of									Center 3.35 GHz band Ltd. Hz Band.
#\$P 6H2		N. A.									10 356 356
		April 4 April 4									an GHz Paptive E
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99 ક્રુંક		A PARTIE AND A PAR									by RF 15.405
➤ Date 22.Apr.'99 Time 02:18:22 ➤ Ref.Lvl 70.00 dB* 8.8545		the intermediate		•			!				-30.0 Start 8.2 GHz A.3 GHz A.3 GHz Radiated. Tested by RFI for Adaptive Broadband Ltd Limit. FCC Part 15.405(b). Rx. 5.25-5.35GHz Band.
	0.07	00 OS	2 5	5 4	0.05	2. 3	5.0	<u>→</u>	10.01	0.02	Radiate

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1 MHZ 0 dB [dBjJV/m]	10	-	!							Stor 12.5 GHZ ss Point JD01/061
Vid.Bw RF.Att Unit		A company and a second	:							Sweep 40 ms 40 ms EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/061
1 NHz[imp] Off 430.000 MHz		Arria Maria Maria								leep Ins JT. AB Ac Chan. 6
1 №		-						!		
Res.Bw TG.Lv1 CF.Stp		- New Agent Park Sharp Land of the State of		, 	 	,		<b>.</b>		-30.0 Start 8.2 GHz Radiated. Tested by RFI for Adaptive Broadband Ltd. Limit. FCC Part 15.405(b). Rx. 5.725-5.825GHz Band
: 26: 02		Andrew Property				•				aptive Bro
Time 02:26:02		T THE TANKS OF THE								for Ad
Apr.'99 }*		A MANAGEMENT						:		ed by RF
> Date 22.Apr.'99 Ref.[v] 70.00 dB*		Handang de				:				-30.0 Start 8.2 GHz Radiated. Test Limit. FCC Par
	0.07	50.06	40.0	30.0	0.03 SS	10.0	<b>→</b> :	-40.0	0.02	-30.0 Radiat Limit.

							,	,-j	₽. 40.		
1 MHz 0 dB [dBjuV/m]	_1 <u>1</u> _										Stop 12.5 GHz iss Point JD01/062
Vid.B⊮ RF.Att Unit		-						<u> </u>			Sweep 40 ms EUT: AB Access Access Point Top Chan. GPH/38797/JD01/062
imp] off MHz		144			:						AB Ac
1 MHz[imp] 0ff 430.000 MHz		arbey bead of					. '				l
Res.Bw 16.Lv1 CF.Stp		Asherita Arabbas					. ,	. ,			Center 10.35 GHz adband Ltd. 825GHz Band.
49* 643		1									Broad -5.82
		A A A A A A A A A A A A A A A A A A A									an GHz Iaptive C. 5.725
Time OS Ker		Padadat									1 for 4.38
99 Man		ALEAST AND					:				d by RF 15.405
Date 22.Apr.'99 Time 02:31:17 Ref.Lv] 70.00 dB* 9.8053		ajthat produced to									-30.0 Start Span Cent 8.3 GHz 10.35 Badiated, Tested by RFI for Adaptive Broadband Limit, FCC Part 15.405(b). Ax. 5.725-5.825GHz
	0.0		40.0	2 6	D. 6	9 9	10.0	9	-10.0	0.05 8-	-30.0 Radiate Limit.

) Vid.Bw 1 MHz f RF.Att 0 dB Unit [dBjJV/m]	10	ماليم أرب بالأثاب ماماه إمامها ومواهدا ومواهدا								Sweep 40 ms 18 GHZ
1 MHz[imp] Off 550.000 MHz		بأجيم عماقي بأفيده مرايط								Sweep 40 ms
Res.Bw TG.Lv1 CF.Stp		- probably proposition								Center 15.25 GHz
Тіте 02:36:48		the war print	:							Span 5 GHz
		A LABORADA CONTRACTOR OF THE STATE OF THE ST			!					5,2
> Date 22.Apr.'99 Ref.Lv] 70.00 dB*	0.0/	50.0	0.00	70.04	D. S.	20.0	10.0	-10.0	-20.02	-30.0 Start Span Cent 12.5 GHz 15.25

						<b> </b>		<u></u>	T.	FI	
1 MHz 0 dB [dBµV/m]	-10	- desemble									Stop 18 GHZ 35 Point 1001/064
Vid.Bw RF.Att Unit		وسفطر بالرمجهوب اوم									Sweep 40 ms 18 GHz EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/064
		t/Janguagen									AB Acc
1 MHz[imp] 0ff 550.000 MHz		-Arthurson									Sweep 40 ms EUT: Bott Cha
Res.Bw TG,Lv1 CF.Stp		Language and the second of the second									Center 15.25 GHz roadband Ltd. 5.825GHz Band.
41: 18		and Appear				:					SHZ SHZ aptive B
Time 02:4		The Park									for Age
pr. '99		والمعاون والاعتراب		i					-		d by RF1
Date 22.Apr.'99 Ref.Lv] 70.00 dB*		Service September 1									-30.0 Start Cent Span Cent 12.5 GHz 15.25 Adaptive Broadband Limit. FCC Part 15.405(b). Rx. 5.725-5.8256Hz
	0.0/	20 G	30.0	40.0	9.0	20.0	10.0	0	-10.0	-20.0	-30.0 Radiat

			Res. Bw	1 MHz [imp]	Wid.BW	1 Mrtz
Date 22.Apr. 99 Ref.Lvl	Time 02:45:	45: 34	TG.Lv] CF.Stp	550.000 MHz	r RF.Att Unit	0 dB [dBjuV/m]
70.07					    	
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60.0 management or with the state of the sta		A TOTAL PROPERTY.	والمتعيدة الماليان المالية والمعارض المالية	A CONTRACTOR OF THE PARTY OF TH		
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-10.01-					<u>-</u>	
-50.0					:	<u> </u>
-30.0 Start Span 12.5 GHz 5.5 GH Padjated Tested by RFI for Adap Ax.	Soan 5.5 GH FI for Adap (5 (b) . Rx.	en GHz daptive x. 5.25-5	SHz Center SHz 15.25 GHz aptive Broadband Ltd. 5,25-5,356Hz Band.	Sweep 40 ns EUT: AB Top Chan.	B Access A	Stop 18 GHZ B Access Point GPH/38797/JD01/065

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1 MHZ 0 dB [dBjJV/m]		a fairtnabath.						Stop 18 GHZ 18s Point
Vid.Bw BF.Att Unit		See Brouges						Sweep 40 ms EUT: AB Access Access Point Anft Chan GDH/38707/.1001/066
[imp] Off 0 MHz		- Contraction						AB Ac
1 MHz [imp] Off 550,000 MHz		Appropria						Swe 40 r EUT
Res.Bw 16.Lvl CF.Stp	. ,	Secure of the property or a short	 					-30.0 Start 12.5 GHz Span 5.5 GHz 12.5 GHz Fadjated. Tested by RFI for Adaptive Broadband Ltd.
49: 10		gh.yeekanayaa						ON SHA
Time 02: 49: 10		- Land of the						5.5 (
Date 22.Apr. 99 Ref.Lvl 70.00 dB*		-		:				d by RFI
ste 22.4 ef.Lvl 0.00 dB#		atterior to						-30.0 Start 12.5 GHz Radiated, Tester

1 MHz 0 dB [dBjuV/m]	_D1		Stop 18 GHz 38 Point JD01/067
Vid.Bw RF.Att Unit	77		Stop 18 GHZ 3 Access Point 6PH/38797/JD01/067
			P S AB Acc an. GP
1 MHz[imp] Off 550,000 MHz			Sweep 40 ms EUT: AB / Top Chan.
Res.Bw TG.Lv] CF.Stp	W. Calegorian Contraction of the		-30.0 Start 12.5 GHz Span 5.5 GHz 15.25 GHz Hadiated. Tested by RFI for Adaptive Broadband Ltd. Limit. FCC Part 15.405(b). Rx. 5.15-5.25GHz Band.
1, 52: 57			an GHz aptive B 5,15-5
Time 02: 52:			5.55 (b) . Byd
kpr. 199 k	2-7-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		of by RF
> Date 22.Apr. '99 Ref.Lvl 70.00 dB*	The second secon		-30.0 Start 12.5 GHz Hadiated. Tester Limit. FCC Part
	0.08 0.08 0.00 0.00	20.01 10.01 -40.0	-30.0 Hadiate Limit.

			w 45	
1 MHZ 0 dB [dBju <sup>V</sup> /m]	-D4-			Stop 18 GHz 5s Point JO01/068
Vid,Bw RF,Att Unit				Sweep 40 ms 40 ms EUT: AB Access Access Point Bott Chan. GPH/38797/J001/068
	4770			an. Gr
1 MHz[imp] off 550.000 MHz	And the second second			Swee 40 mg EUT: Bott Ch
Res.Bw TG.Lvl CF.Stp	- Andrewski and Andrewski a			-30.0 Start Span Center 12.5 GHz 5.5 GHz 5.5 GHz 5.5 GHz 5.5 GHz 15.405 (b) . Rx. 5.15-5.25GHz Band.
: 56: 27	and the state of t			antive B
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pr. '99	A STATE OF THE STA			d by HFJ
Date 22.Apr. 99 Ref.Lvl 70.00 dB*	and the second s			-30.0 Start 12.5 GHz Radiated, Tester Limit, FCC Part
	50.0	20.02	10.0	-30.0 -30.0 Radiate Limit.

					<u> </u>		ا رد	40 40		
1 MHz 0 dB [dBµV/m]	and Other									Stop 26 GHZ ss Point JOO1/069
Vid.Bw RF.Att Unit	1		ļ. 			<u> </u>				Cess Acce PH/38797/
1 MHz[imp] 0ff 800.000 MHz	A CONTRACTOR OF THE									Sweep 60 ms EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/069
Hes.Bw 1 TG.Lv1 CF.Stp 80	And the state of t									_
Time 03:00:26										Span Start Span Span Center 18 GHz 22 GHz Addiated, Tested by RFI for Adaptive Broadband Ltd. Limit. FCC Part 15.405(b). Rx. 5.15-5.25GHz Band.
> Date 22.Apr.'99 ] Ref.Lv] 70.00 dB*										itart 8 GHz d. Tested by RFI FCC Part 15.405 (b
	J. 0.0/	50.0	40.0	e. e	8 9	1€.0 	<del></del>	-10.0	0.05	Radiated. Test Limit. FCC Par

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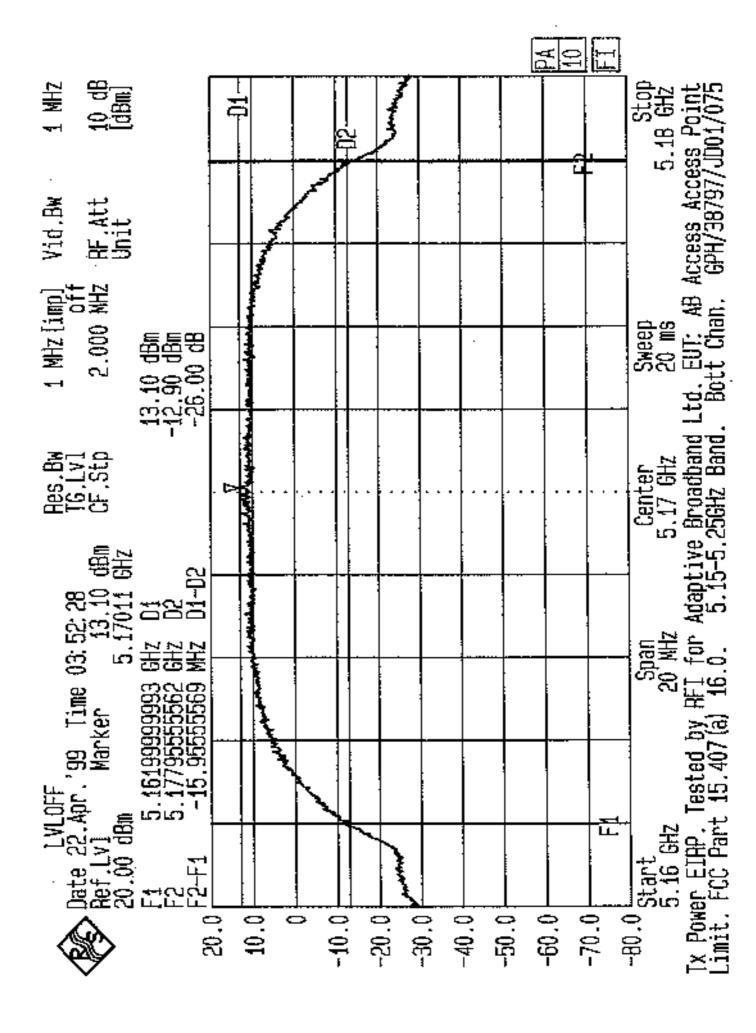
								m	PA		
1 MHz 0 dB [dBµV/m]	-10-							<u>-</u>			Stop 26 GHZ ss Point JOO1/070
Vid.Bw RF.Att Unit											Sweep 60 ms EUT: AB Access Access Point Top Chan. GPH/38797/JD01/070
-	A A A A A A A A A A A A A A A A A A A	ı									sp ns . AB Ac nan. 6
1 MHZ [imp] Off 800.000 MHZ	Yalaya di Kur										Swer 60 m EUT.
Res.Bw TG,Lv1 CF.Stp				!						• • •	Span Center 3Hz 8 6Hz 22 6Hz 15-5.256Hz 15.405(b). Rx. 5.15-5.256Hz Band.
3: 12: 33	to the state of										an Maptive C 5.15-
Time 03: 12: 33									:		Span 8 GHz I for Adap (b) . Rx.
> Date 22.Apr.'99 Ref.Lv] 70.00 d8*											ed by RF t 15,405
Date 22 Ref.Lv1 70.00 df	1										-30.0 Start 18 GHz Radiated, Test Limit, FCC Par
	7.7. 6	P. 60	50.0	40.0	B. 6	P. 6	10.0 ,	o (	-10.0	5.02-	-30.0 Radiat Limit.

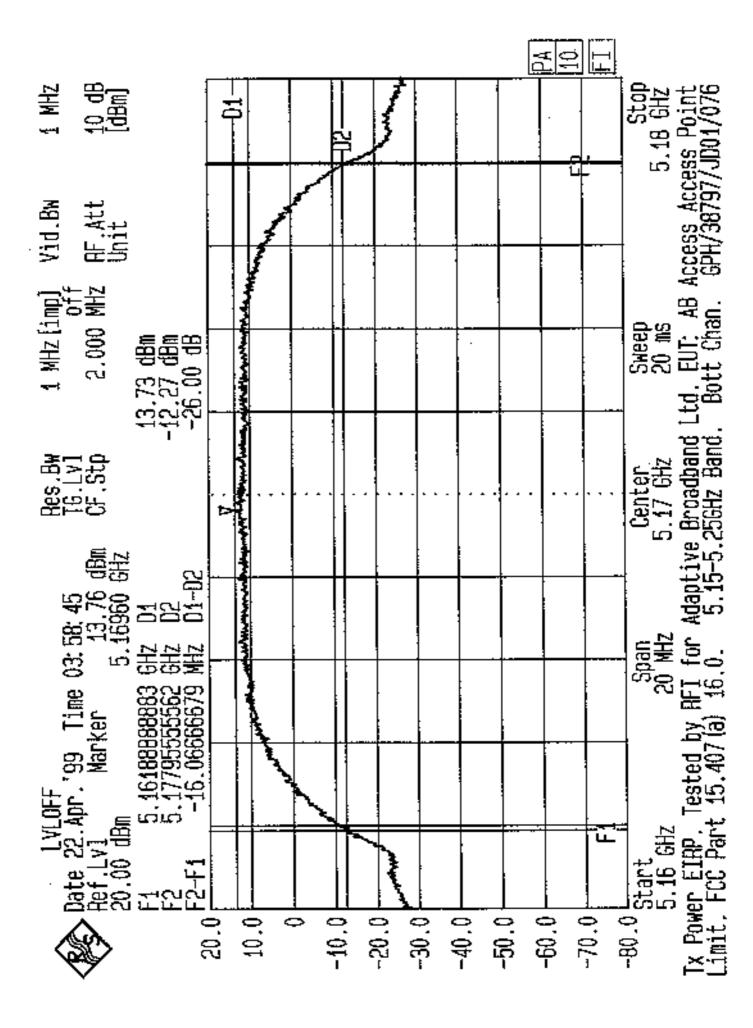
N 89 [	<b>K</b> 1 "		
1 MHz 0 dB [dB,UV/m]			Stor 26 GHz ss Point J001/077
Vid.B⊮ RF.Att Unit			Sweep 60 ms EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/071
	7 7		AB Acc
1 MHz[imp] Off 800.000 MHz	42,444		Swee 60 n Bott Cl
Res.Bw TG.Lv1 CF.Stp	Ny desiran's provident and spring the		Center 22 GHz Broadband Ltd. -5.356Hz Band.
: 21: 30	Total Constitution of the		######################################
Time 03:21:30			Span 8 GHz (b) . Adap
. 199 *	Address distance		ed by RF t 15,405
Date 22.Apr. 99 Ref.Lv1 70.00 dB*	Comp.		-30.0 Start Span 18 GHz Badiated, Tested by RFI for Adaptive Limit, FCC Part 15,405(b). Rx. 5.25-
	5 8 8 8 8 5 6 6 8	10.0	-30.0 -30.0 Radiate Limit.

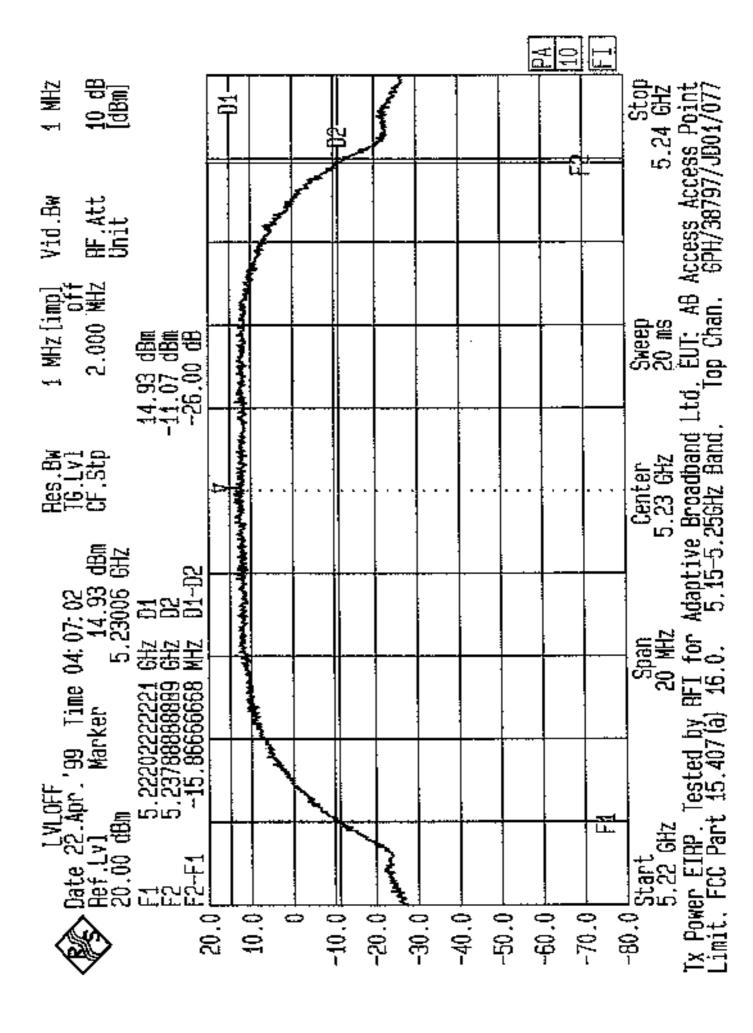
Vid.Bw 1 MHZ RF.Att 0 dB Unit [dBµV/m]		Sweep 60 ms EUT: AB Access Access Point
1 MHz[imp] V 0ff 800.000 MHz R	To the state of th	Sweep 60 ms EUT: AB ACC
Res.Bw TG.Lv] CF.Stp	And the safe of th	Center 22 GHz Broadband Ltd.
Time 03:25:51		Span 8 GHz I for Adaptive
> Date 22.Apr.'99 Ref.Lv1 70.00 dB*		-30.0 Start Span 18 GHz 8 GHz Adaptive

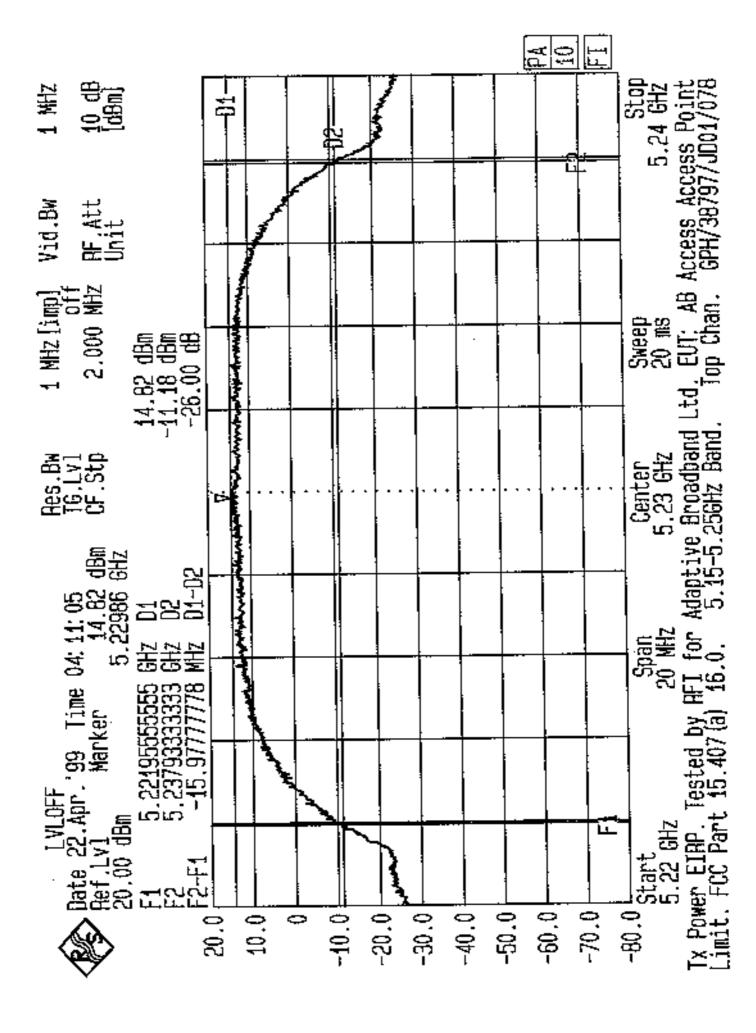
							ļ	ח	<u> </u>		
1 MHz 0 dB [dBµV/m]	-										Stop 26 GHZ 35 Point JD01/073
Vid.Bw RF.Att Unit											Sweep 60 ms EUT: AB Access Access Point Bott Chan. GPH/38797/JD01/073
[imp] Off O MHz	A CANADA										AB Ac
1 MHz[imp] Off 800.000 MHz	4										Sec 60 a Butt Ci
Bes.Bw TG.Lv1 CF.Stp	telling the state of the state				h r - r						Center 22 GHz tive Broadband Ltd. 5.725-5.825GHz Band.
30: 46	1										n tz ptive B 5.725-
Time O3	1										Span 8 GHz for Adapt b) . Rx.
pr. 799 (											d by RFI 15.405
Date 22.Apr.'99 Time 03:30:46 Ref.Lvl 70.00 dB*											Radiated, Tested by RFI for Adap Limit. FCC Part 15.405(b). Rx.
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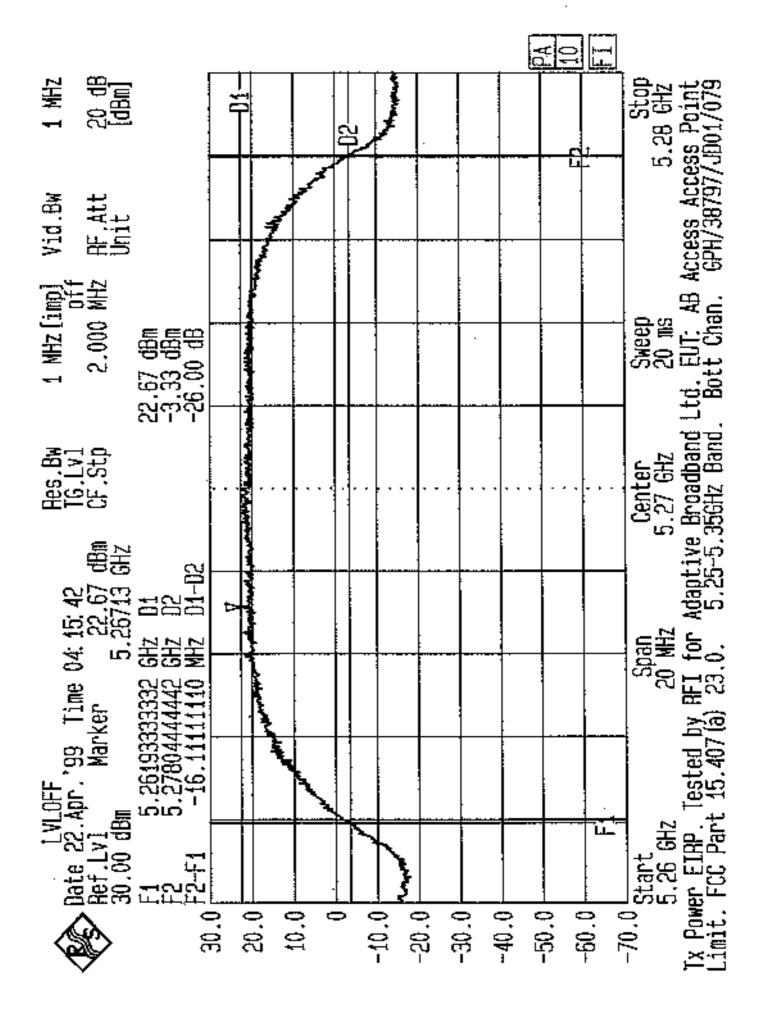
								رب	40. 10.		
1 MHz [dBµV/m]	January 11										Stop 26 GHZ 85 Point JD01/074
Vid.Bw AF.Att Unit	War Andrew				<u>-</u>						CCESS ACCE
1 MHz[imp] Off 800.000 MHz	Annahari en en en en en en en							:			Sweep 60 ms EUT: AB Access Access Point Top Chan. 6PH/38797/JD01/074
Res.Bw TG.Lv1 CF.Stp				- , .							Center 22 GHz roadband Ltd. 5.825GHz Band.
Time 03; 34; 54	The state of the s										-30.0 Start 18 GHz Radiated, Tested by RFI for Adaptive Broadband Limit, FCC Part 15,405(b). Rx. 5.725-5.825GHz
Date 22.Apr. 99 1 Ref.Lv1 70.00 dB*	A STATE OF THE PARTY OF THE PAR					:					Start 18 GHz ed. Tested by AFI FCC Part 15,405 (
	0.0/	0.00	2 6	D. 6	) ) )		10.01 	<u> </u> 	10.0	0.03-	-30.05 St 18 Radiated Limit. F

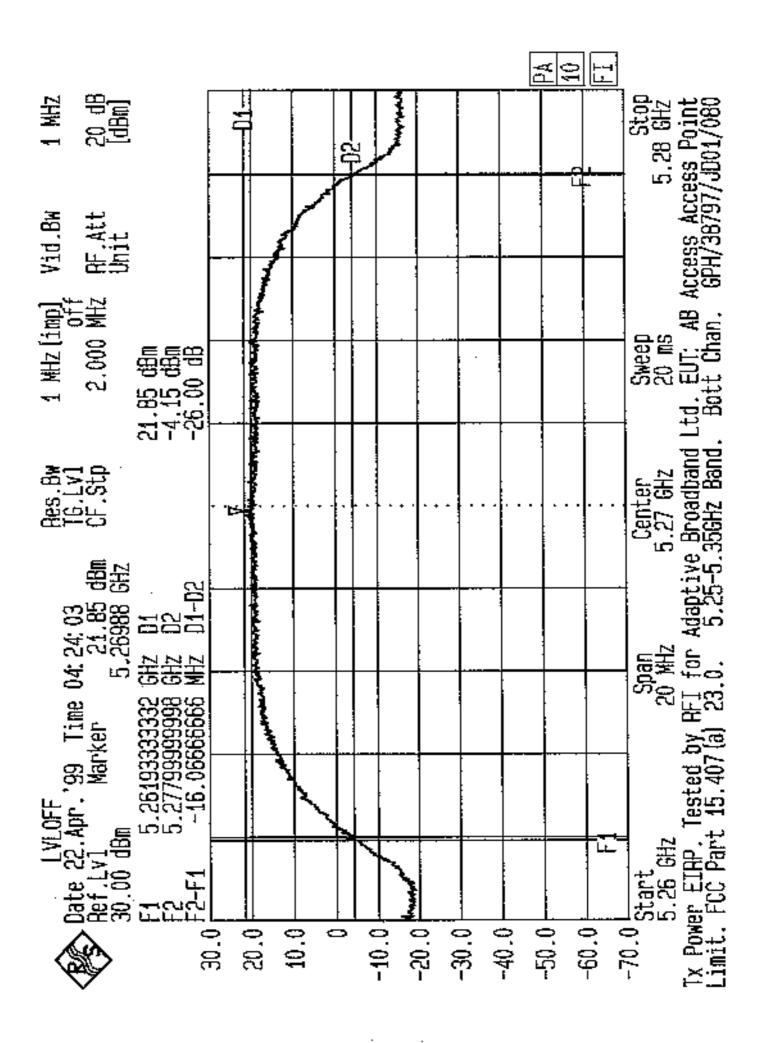




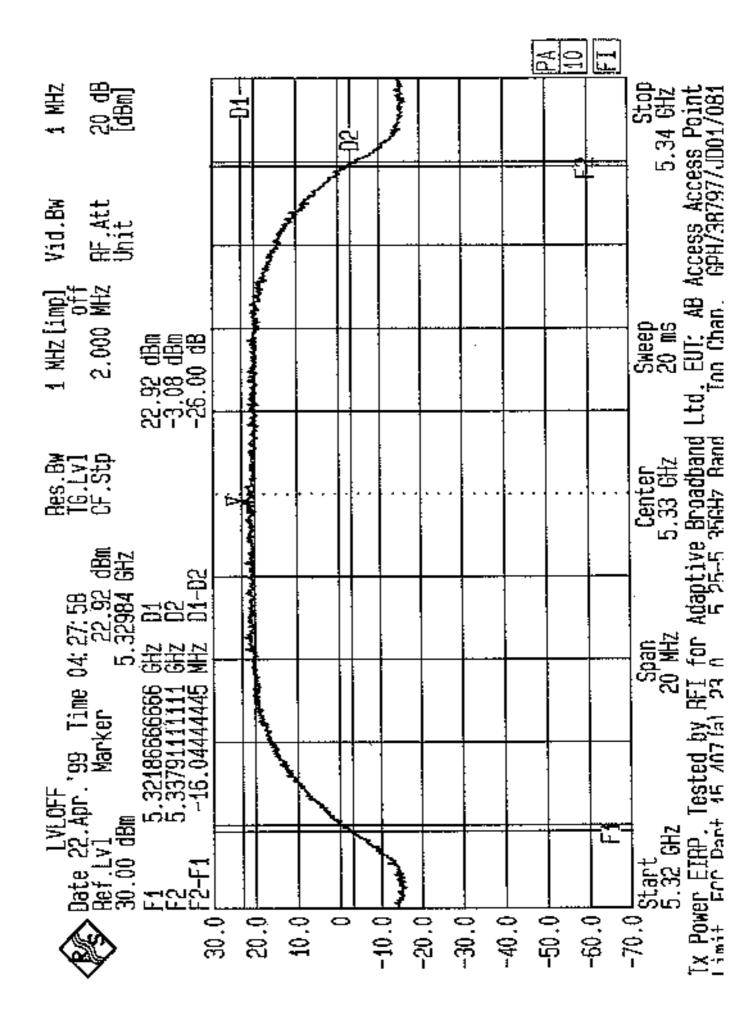


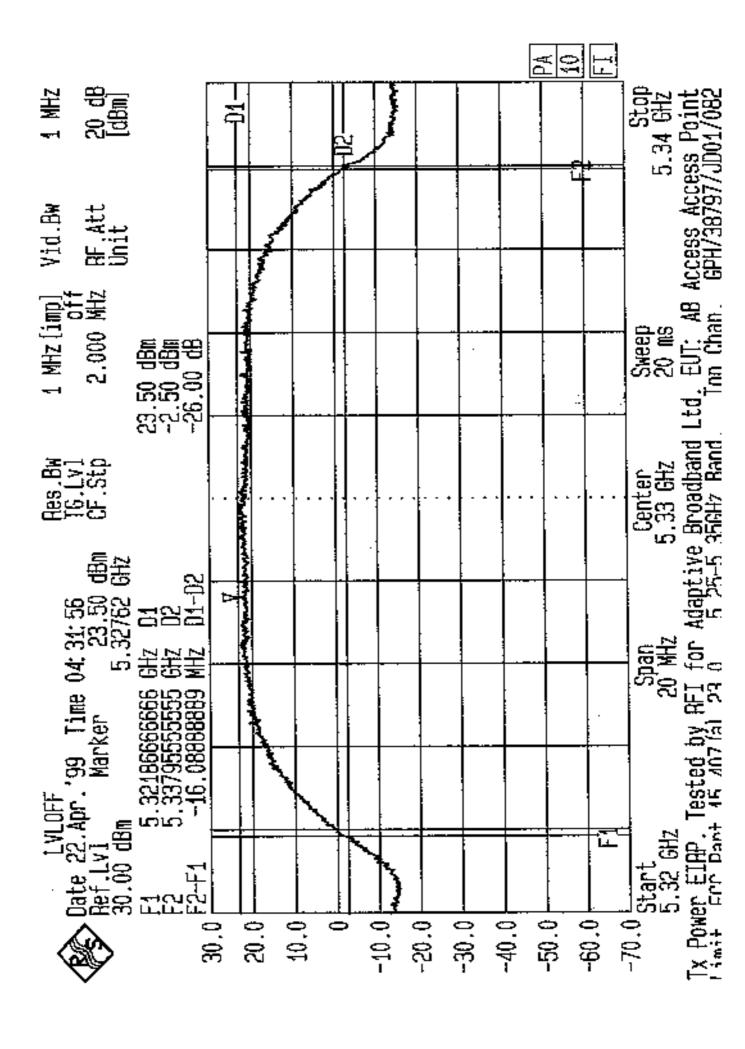


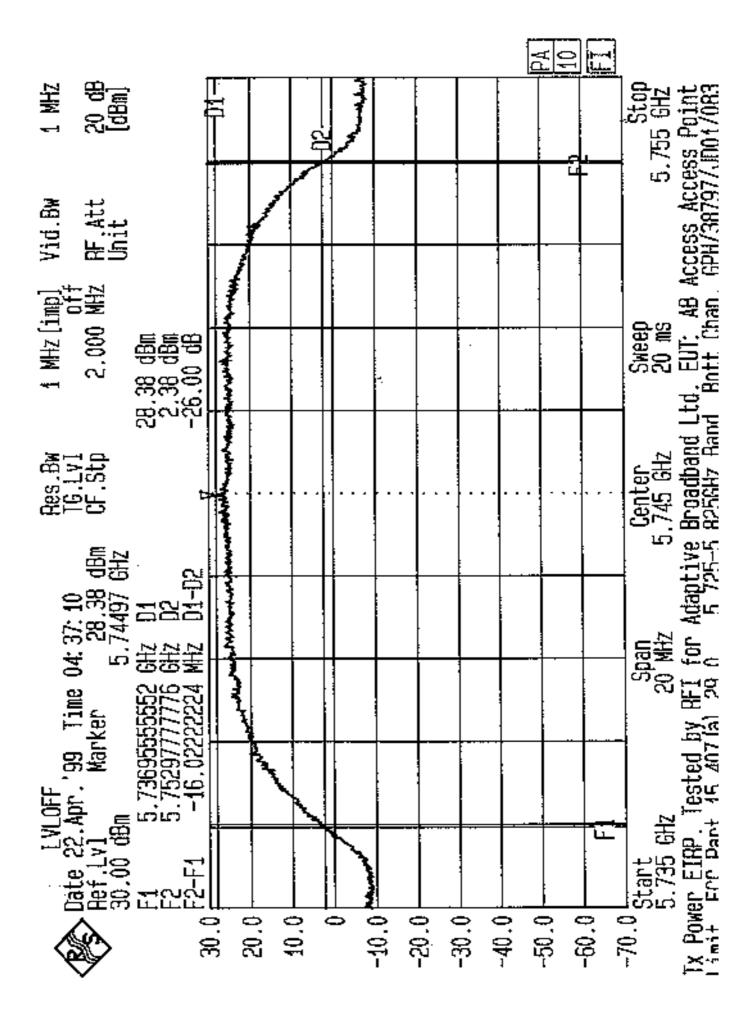


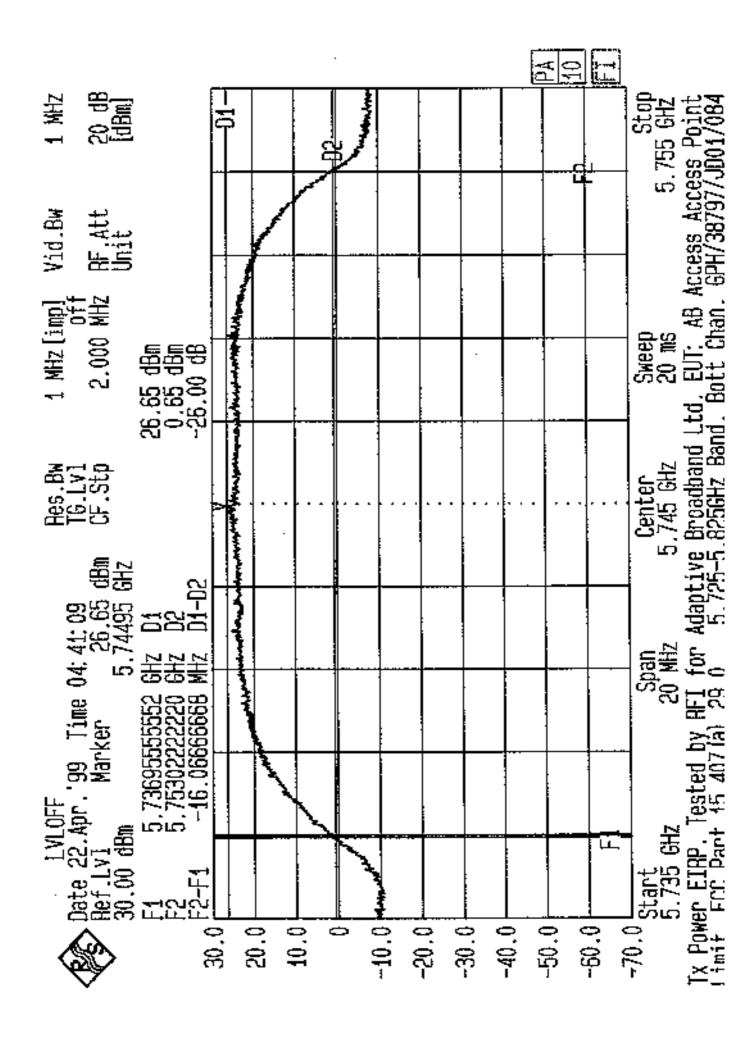


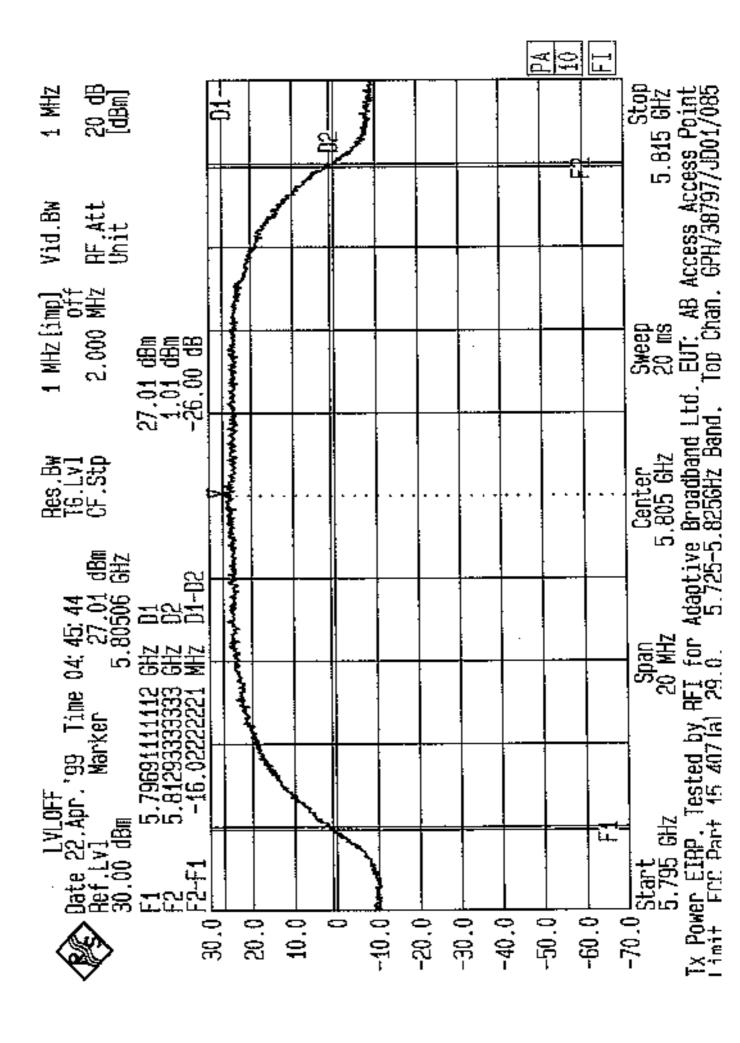
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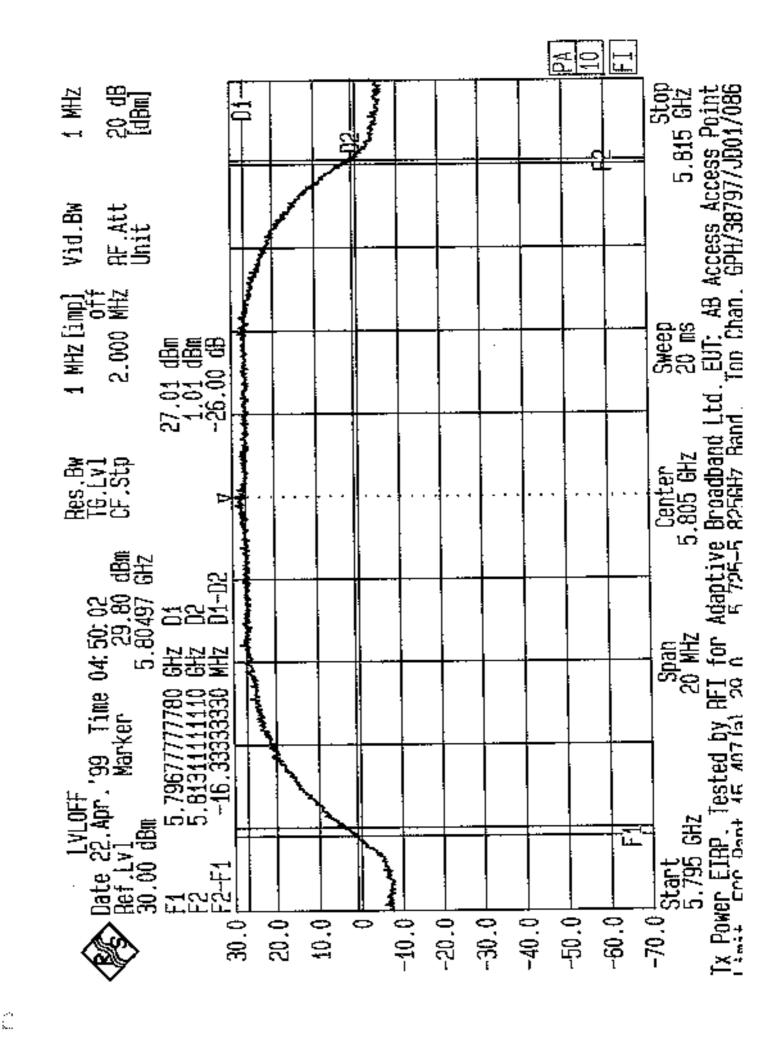




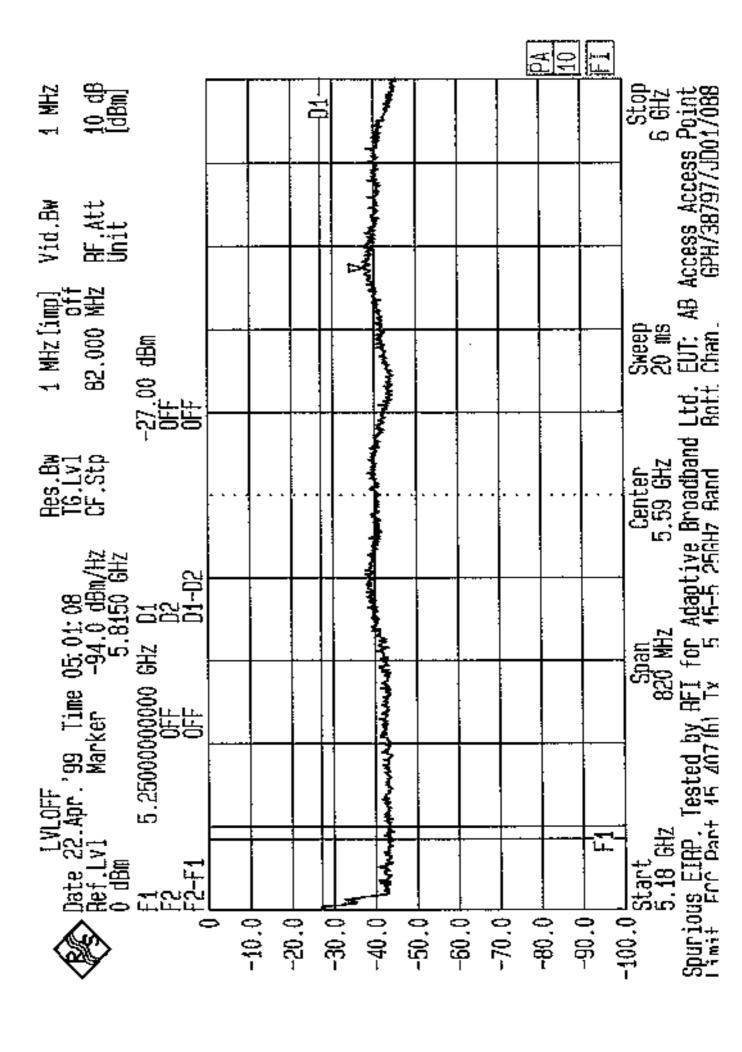






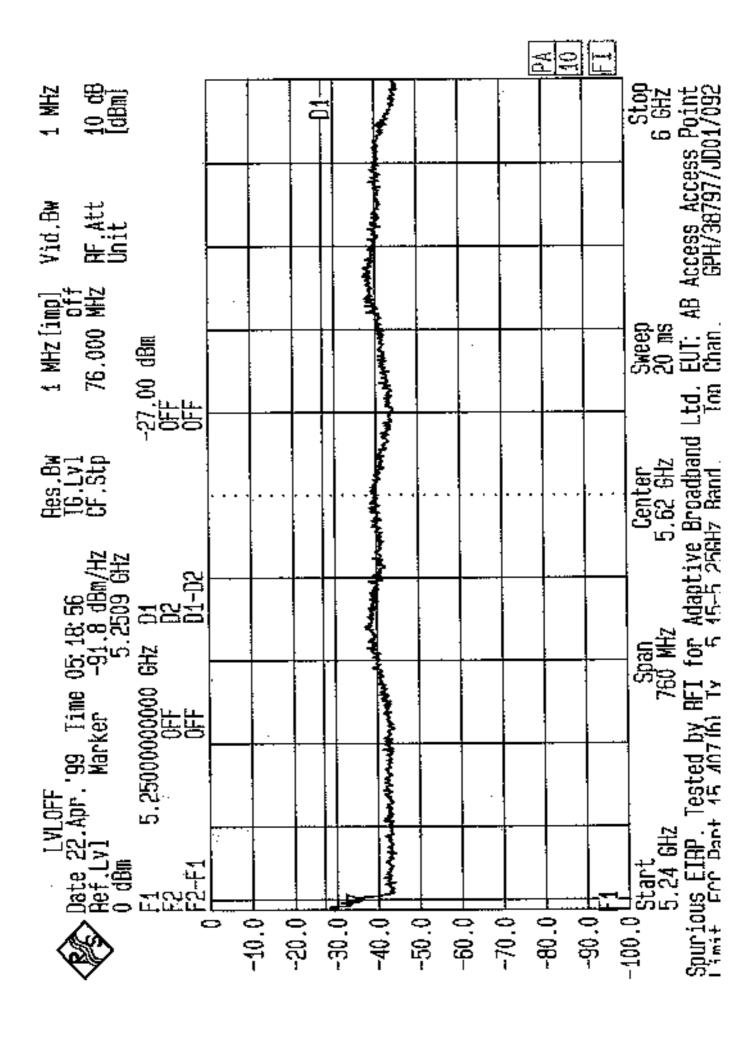


				PA 10 11	
1 MHz 10 dB [dBm]	2	3			Stop 5. 16 GHZ ess Point /JN01/087
Vid.Bw RF.Att Unit		To be de la constitución de la c			Stop 5.16 GHZ AB Access Access Point 6PH/38797/JN01/087
[imp] Off WHZ		A Park			
1 MHz [imp] 0ff 16.000 MHz -27.00 dBm 0FF 0FF		Part Argument			Swee 20 m EUT:
-27.0 0-15.0			<u> </u>		E
Res. Bw TG.Lv1 CF. Stp		No. Carlotte			Center Sweep 5.08 GHz 20 ms Adaptive Broadband Ltd. EUT: 45-5 25GHz Rand Brit Chan.
m/Hz 6Hz 02		173			ptive 5 25G
24.45 14.66 16.66		المادويين			F Ada
- 96 - 96 55 0 GHz		1 3			71.50 F.1.50
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Date 22. Apr. '99 Time 04: 57: 12  Ref.Lvl Marker -96.4 dBm/Hz 0 dBm F1 5.15000000000 GHz D1 F2 F2-F1 OFF D1-D2		Africander			Span Spant 5 6Hz Span 160 MHz Spurious EIRP. Tested by RFI for 15 mit Fr Dart 15 An7 (h) Tv F
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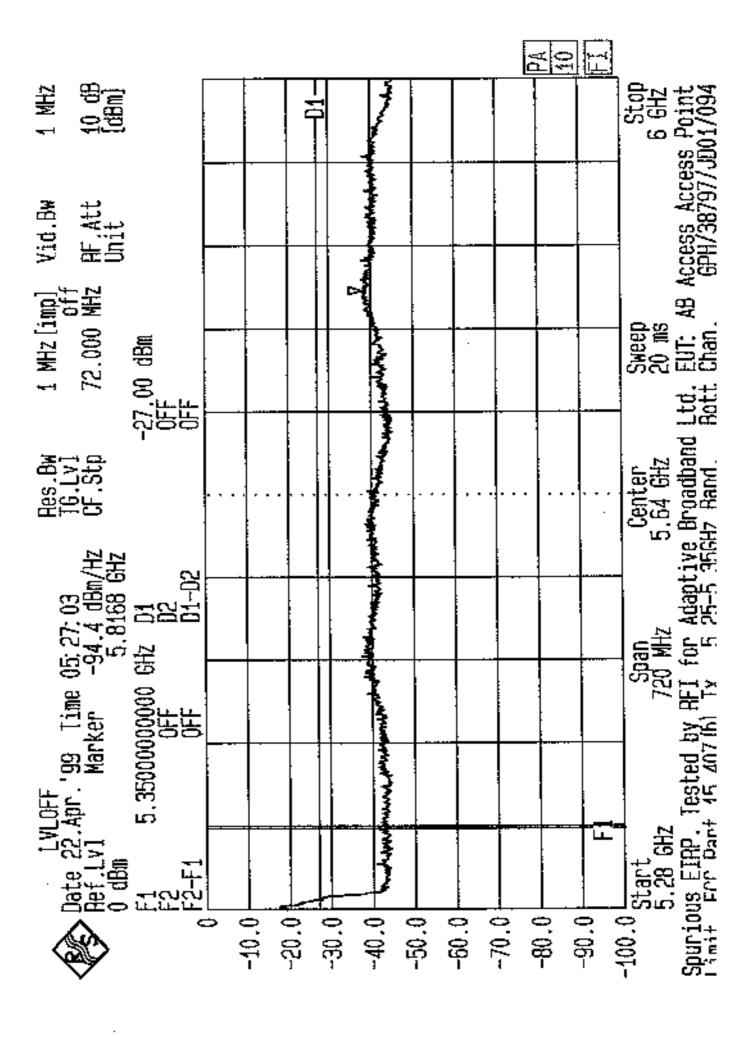


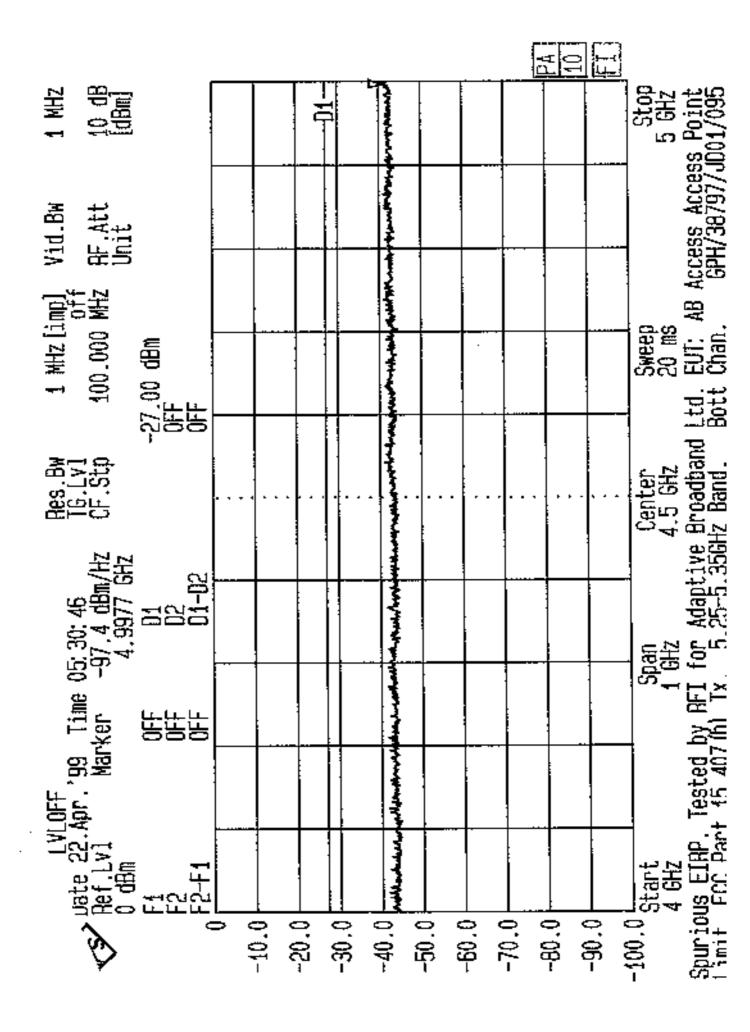
							10 PA	
1 MHZ 40 dB [dBm]				- American				Stop 5 GHz Ss Point MO1/0R9
Vid.Bw RF.Att Unit	_			r-dppfppto				AB Access Access Point
(mp) 0.64 MHZ MHZ				Libration				AB Ap
1 MHz [imp] 0ff 100.000 MHz -27.00 dBm				-				Solve FUT:
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Res.Bw 16,Lv1 CF.Stp				Architectura				Center 4.5 GHz Adaptive Broadband Ltd.
24.25	<u></u>			3				tive
. 06. 57 37. 7. dBn 4. 9811 01 02				and the second				Span 1 GHz I for Adap
F. '99 Time 05: 06: 57 Marker -97.7 dBm/Hz 4.9811 GHz OFF D1 OFF D2 OFF D2				age deleganes				Spi 1 6 1 6 1 1 f
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LVLOFF  Date 22.Apr. '9  Ref.Lv]  O dBm  F2 F2 F2-F4	1			A STORY TO A STORY				Spurjous EIRP. Tested by RFI
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Vid.Bw RF,Att Unit				Annes and Albertan						ccess Acce
1 MHz [imp] 0ff 100.000 MHz -27.00 dBm 0FF 0FF				Andread de la company de la co						wee O m €UT:
Hes.Bw TG.Lv] CF.Stp				بولاحمافالاستسادان					• • •	Center S 4.5 GHz Adaptive Broadband Ltd. E 15-5.256Hz Band. Top C
Time 05: 11: 12 -98.0 dBm/Hz 4.9811 GHz 0FF 01 0FF 02 0FF 02				できたいまたのできないのできないないのできないないできないないのできないないのできないないのできないのでき						[편문]
Date 22. Apr. '99 Time 05: 11: Ref.Lvl Marker -98.0 0 dBm F2 F2-F1 OFF	0.01-		0.06-	-40.0 mensagenase numbered	0.00	0.00-	0.0/-	0.00-	0.00	Spurjous EIRP. Tested by RFI
<b>~</b>	•	•	•	•	•	,	•		•	, <u>v</u>



				P.A.	
1 MHz 10 dB [dBm]			ph ph		<del></del>
Vid.Bw RF.Att Unit			algebranderske		Stop 5.26 GHZ AB Access Access Point GPH/38797/JD01/093
1 MHz [imp] 0ff 26.000 MHz -27.00 dBm 0FF 0FF			and a section of the production of the		weep 0 ms UT:
Res.Bw TG.Lv1 CF.Stp			A State And		Center Si fz 5.13 GHz 24 Adaptive Broadband Ltd. E
LVLOFF Date 22. Apr. '99 Time 05: 23: 17 Ref.Lvl Marker -93.6 dBm/Hz 0 dBm 5.25000000000 GHz D1 F2 5.25000000000 GHz D1 F2 0FF D1-D2			And the same of th		Span 260 MF 260 MF 2. Tested by RFI for
Bate 27.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	-10.0	0. 6. 6 8. 8. 9	-40.0	9.00-	-90.0 Start 5 GHZ Spurious EIRP

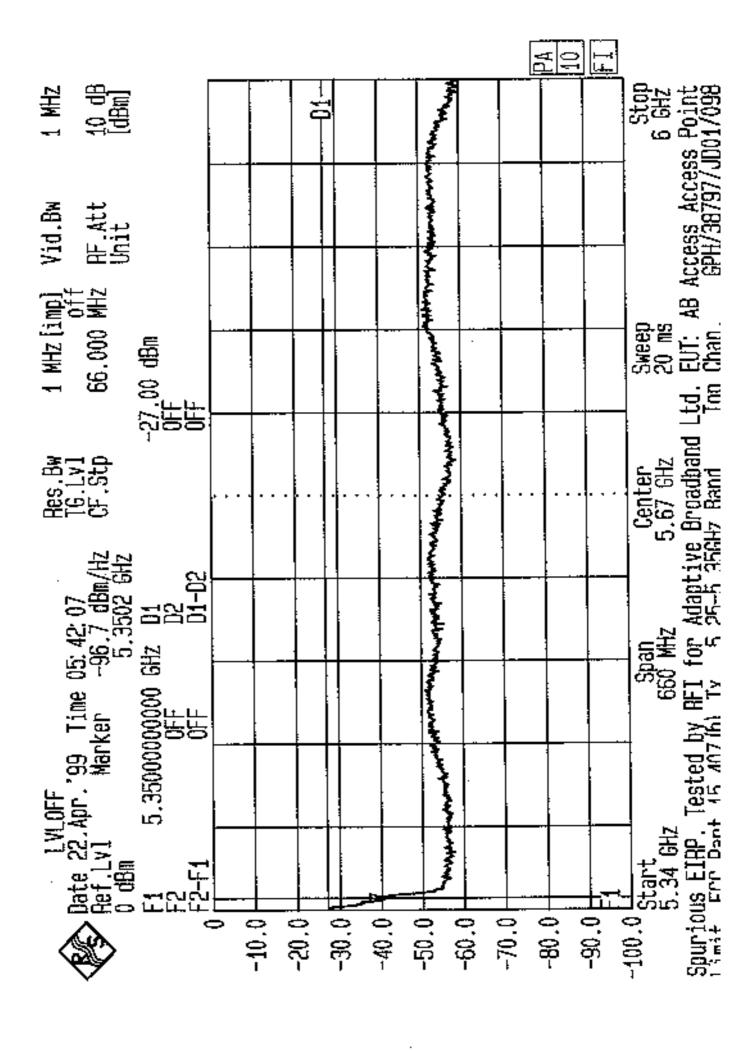


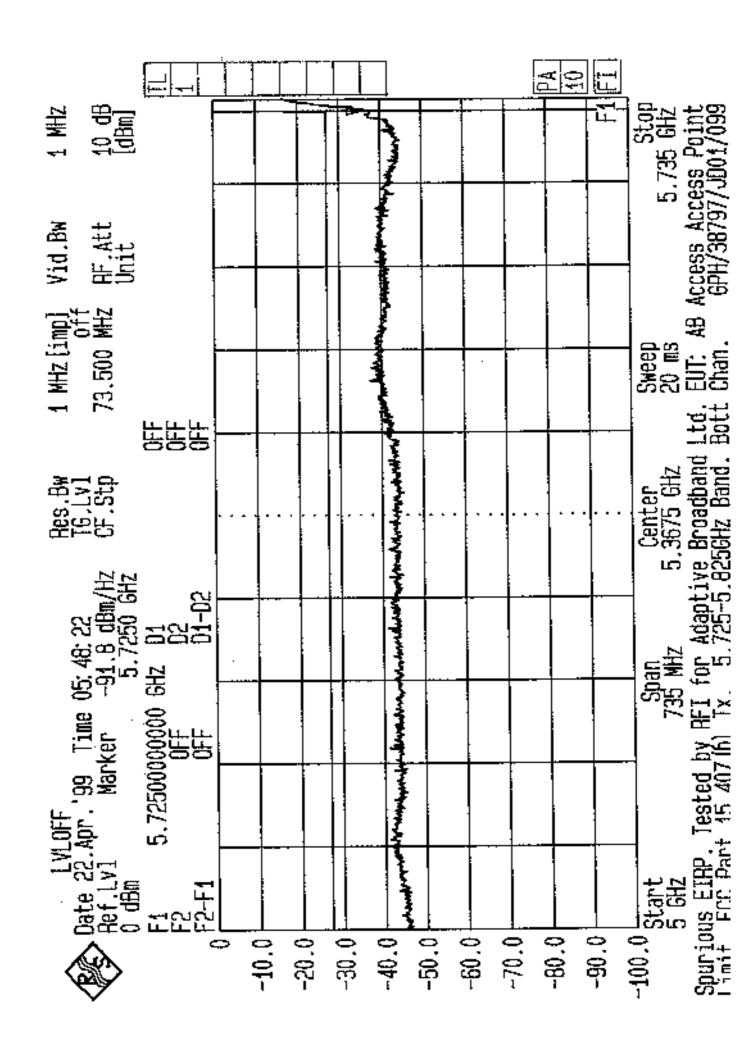


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1 MHZ 10 dB [dBm]					Stop 5 GHZ ss Point Inn4/AGA
Vid.Bw RF.Att Unit		24			Stop Is AB Access Access Point AB Access Access Point
1 MHz [imp] 0ff 100.000 MHz -27.00 dBm 0FF 0FF		and the state of t			Center Sweep 4.5 GHz 20 ms Adaptive Broadband Ltd. EUT. AB Ar
Res.Bw TG.Lv1 CF.Stp					Center 4.5 GHz Broadband Hr Rand
. 05: 34: 18 -98.0 dBm/Hz 4.9166 GHz D1 D2 D1-D2		- In-April			1
799 Time Marker OFF OFF		770			ted by, RFI
Spate 22.Apr. '99 Time 0 Bef.Lvl Marker 0 0 dBm F1 F2 F2-F1 OFF		and the second s			Span Spart Span 4 6Hz for Span 1 6Hz Spurious EIRP. Tested by RFI for
	-10.0	-30.0	-50.0 -60.0 -70.0	-90.06 -90.0	Spurjons EIRP

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1 MHz 10 dB [dBm]		Sto Sto Sto Sto Sto Sto Sto Sto Sto Sto
Vid.Bw RF.Att Unit		F1 Stop 5.32 GHZ Access Access Point GPH/38797/JD01/097
1 MHz [imp] 0ff 32.000 MHz -27.00 dBm 0FF 0FF	Pripries Colored Color	Weep Ar Cut: A
Bes.Bw TG.LV1 CF.Stp		z S. 16 GHz S. 4daptive Broadband Ltd. E
Date 22. Apr. '99 Time 05. 38. 02 Ref. Lv1 Marker -97.3 dBm/Hz 0 dBm 5.2500000000 GHz D1 F2 62-F1 0FF D1-D2		Span Span 320 MHz ted by RFI for Adaptive
Date 22. Apr. Pef. Lvl 0 dBm 6.256	-20.0 -30.0 -40.0 -50.0 -70.0	-80.0 -90.0 -100.0 Start 5 GHz 320 MHz 5 GHz 320 MHz 5 GHz 320 MHz

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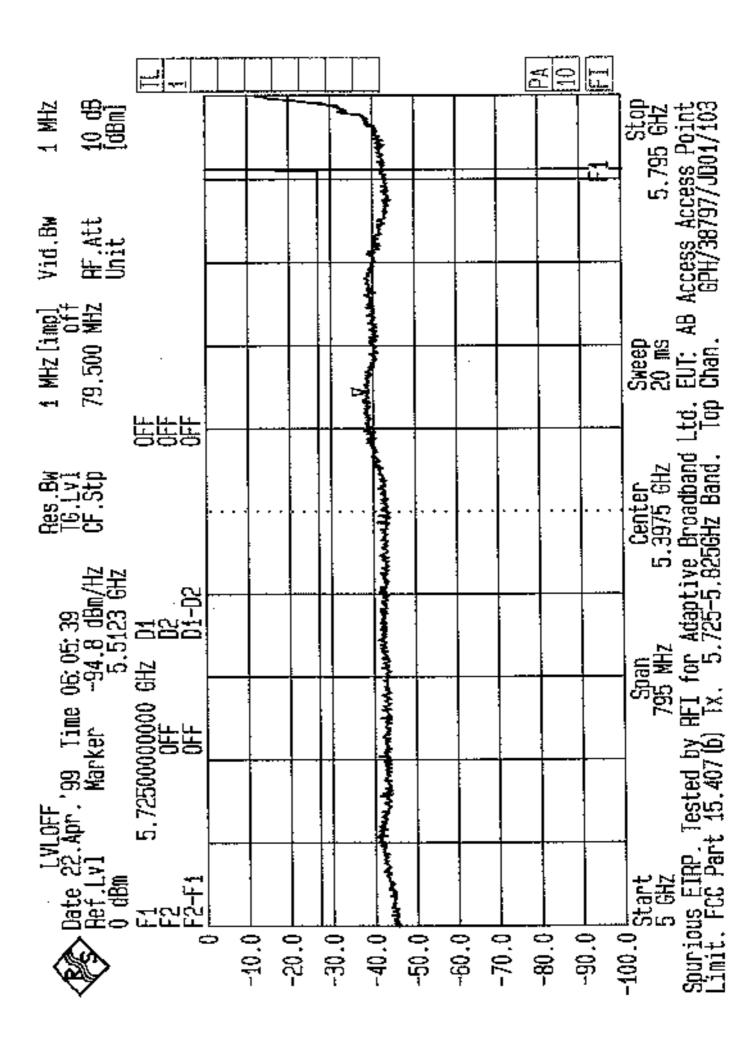


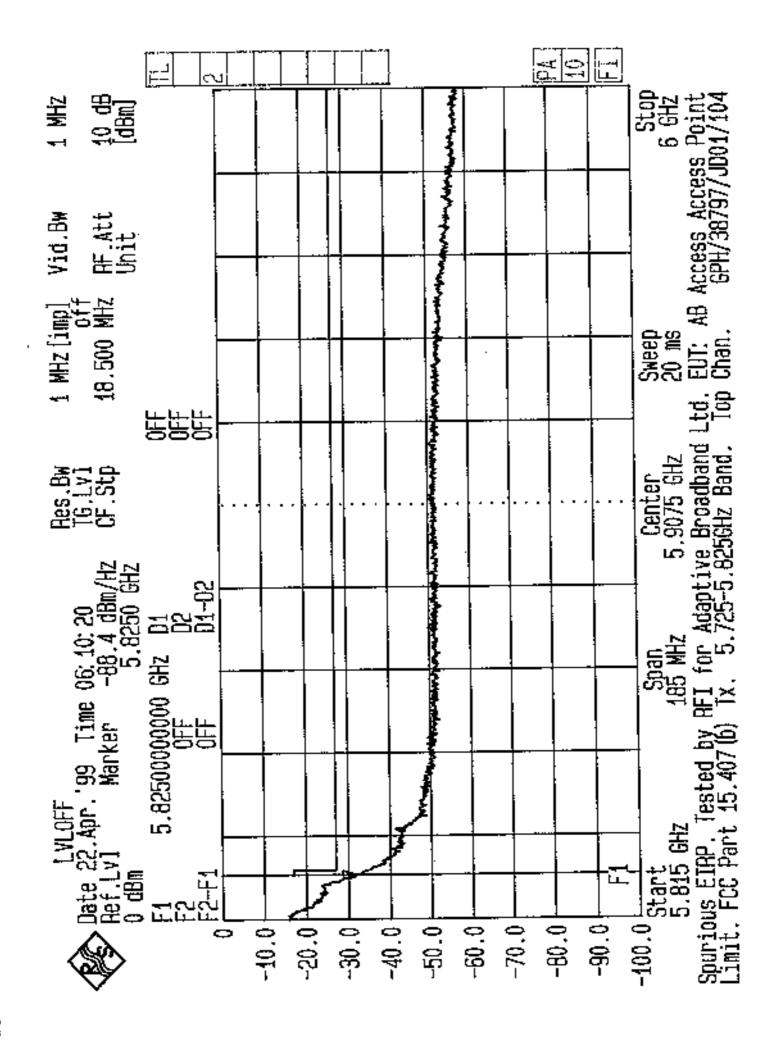


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TWT 100 GB 100 G			And the feather than th			Stop 8 6 GHZ AB Access Access Point 1. 6PH/38797/JD01/100
Vid.Bw PF.Att Unit	_					ccess Acc 6PH/38797
1 MHz [imp] Off 18.500 MHz OFF OFF			A Company of the Comp			Swee 20 m 20 m Bott Char
Res.Bw 16.Lv1 CF.Stp			The second secon		.	Center 5.9075 GHz Adaptive Broadband 725-5.8256Hz Band.
Fine 05: 52: 10 ar -94.5 dBm/Hz 5.8312 GHz 0000 GHz D1 FF FF D2						Span 185 MHz Tested by RFI for Adaptiv 15 407 (6) Tx. 5.725-5.8
Date 22. Apr. '99 Time 05: 52: 10 Ref. Lv1 Marker -94.5 dBm/Hz 0 dBm F1 5.8250000000 GHz D1 F2 0FF D2 D2-D2			O Company Temperature O	0 0	0.00	3 5 6
	0-10.0	-20.0	-30.0	-70.0	-80.0	Spur

1 MHZ 10 dB 10 dB 10 dB	Stop 5 GHZ 35 Point JD01/101
Vid.Bw BF.Att Unit	AB Access Access Point 101
<b>全等</b>	AB A
1 MHz [imp] 100.000 MHz -27.00 dBm 0FF 0FF	
Res. By 13. Lv1	Adaptive Broadband 725-5.825GHz Band.
4 4 4	1, 1, ve.
Date 22. Apr. '99 Time 05: 56: 07  Ref. Lv1 Marker -99.6 dBm/Hz 0 dBm F1 5.8250000000 GHz D1 F2 0FF D2 10.0 20.0 20.0 40.0	Adapl 7255-
35. 4. 55. 55. 55. 55. 55. 55. 55. 55. 55	· \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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			A O II
1 MHZ 10 dB [dBm]			Stop 5 GHz 5 Stop 5 OHz 5 Ohz
Vid.Bw RF.Att Unit		Again Control of the	Stop S AB Access Access Point GPH/38797/JD01/102
1 MHz [imp] 0ff 100.000 MHz -27.00 dBm 0FF 0FF		And the state of t	Center Sweep 4.5 GHz 20 ms 4.5 GHz 20 ms 725-5.825GHz Band. Top Chan.
Hes.Bw 16.Lv1 CF.Stp			Center 4.5 GHz Broadband 56Hz Band.
Date 22. Apr. '99 Time 06: 02: 08 Ref. Lv1 Marker -95.2 dBm/Hz 0 dBm 0FF 01 F2 0FF 01 F2 0FF 01-02			<del>-   -    </del>
Date 22. Apr. '9 Ref. Lv1 0 dBm	-10.0 -20.0 -30.0	-40.0 -50.0 -70.0	-90.0 -100.0 Start 4 GHz Spurious ETRP. Tested by RFI Limit. FCC Part 15.407(6) Tx.





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1 MHz 10 dB [dBm]				- 10		Lyndopy Contractor					Stop	8.2 662 8s Point JD01/105
Vid.Bw RF.Att Unit	:											S B Access Access Point GPH/38797/JD01/105
1 MHz[imp] Off 220.000 MHz	-27.00 dBm OFF OFF					A TOTAL PORT OF THE PROPERTY OF THE PARTY OF					Sweep	td, EUT: AB Ac t Cham.
Res.Bw TG.Lv] CF.Stp						territory, menuter prof					Center	lz 20 ms   Adaptive Broadband Ltd. EUT: Al   15-5.256Hz Band. Bott Chan.
LVLOFF  Date 22.Apr.'99 Time 06:18:38  Ref.Lvl Marker -99.7 dBm/Hz	FF 01-02					The bear and the second sections of the second					Span	2.2 GHz y RFI for Adaptive b) Tx. 5.15-5.256
LVLOFF Date 22.Apr. 99   Ref.Lv] 9 70 48m	7.1 7.1 7.2 - 7.1 7.2 - 7.1					A THE PROPERTY OF THE PARTY OF					Start	Spurious EIRP. Tested by RFI for Limit. FCC Part 15.407 (b) Tx. 5.
		0 (	-10.0	9. 5 2. 5 3. 5 4. 5	-30°0 	-40.0	-20.0	-50.0	-/0.0/-	0.08	2.76	Spurio Limit.

		,							P4	9] <u>L</u>	1
1 MHz 10 dB [dBm]	!					-					Stop 8.2 GHZ Ss Point JD01/106
Vid.Bw RF.Att Unit						معاميد عدب يوسطونهم					Stop 8.2 GHZ Access Access Point GPH/38797/JD01/106
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	-27.90 dBm OFF OFF		i			والمراجعة سيتخطي يعسشلوا ليطلعونه	. <b></b>	. :		=	
Res.Bw 16.Lv] CF.Stp	-27 -27 -27					- And the state of	, - •				Center Sweep 12 7.1 GHz 20 ms Adaptive Broadband Ltd. EUT: AF 5.15-5.25GHz Band. Top Chan.
)6; 22; 18 -95.7 dBm/Hz 6.4937 GHz	02 04-02					Same Andreas of the same					en Adaptive for Adaptive 5.15-5.256
99 Time Marker	756				-	an many department					2.0 ted by PFI .407 (6) TX
LWLOFF Date 22.Apr. ' Ref.Lvl 2.70 dBm	F2-F1					Martin San San San San San San San San San Sa					Start Start 6 GHz Spurious EIRP. Tested by AFI for / Limit, FCC Part 15.407 (6) Tx. 5.
		0 0	-20.0	2 6	9.00	0.04	0.02-	96 F	-/0.0/-	2 6 2 6	Spuriol Limit.

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1 MHz	유 등 등			:			Andrew Spireton						Stop 8.2 GHz ss Point JOO1/107
Vid.Bw	AF.Att Unit						- Andrew Control of the Control of t			_	<u>.</u>		Stop 8.2 GHZ AB Access Access Point GPH/38797/JD01/107
	釜						4						AB Ac
1 MHz $[1mp]$	220.000	-27.00 母m OFF OFF			:		- Carpetage						Sweep 20 ms td, EUT: t Chan.
Res.Bw	CF.Stp						Anthony and Anthony						Center Sweep 7,1 GHz 20 ms Adaptive Broadband Ltd. EUT: A
	F/H2		<u>.</u>		<u> </u>			,	_				tive 355
25. 75.	38.7.8 5.7.8 5.3.7 8.7.	F1 0FF D1 57.					Aleksandra Aleksandra						6HZ 6HZ 5.25
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	2 7 7 6 2 1 7 6 3 1 7 6	5 2					1		!				Start S GHZ S EIR FCC P
4		J <b>Li</b> [1.,[1	0	-10.0	-20.0	-30.0	-40.0	<u>5</u>	22 23 31	-70.0	3 3 3	왕 -	Start 6 GHz Spurious EIRP. Tested by RFI for Limit. FCC Part 15.407 (6) Tx. 5.

							PA		<del>1</del> 4.
1 MHZ 10 dB [dBm]				A STATE OF THE STA			. <b>-</b>		Stop 8.2 GHZ SS Point JD01/108
Vid.Bw HF.Att Unit									Stop 8.2 GHZ AB Access Access Point GPH/38797/JD01/108
1 MHz[imp] Off 220.000 MHz	-27,00 dBm OFF OFF			Andrew State Constitution of the Constitution			_		Sweep 20 ms td, EUT: AB Au p Chan.
Res.Bw 16.Lvl CF.Stp	( <u>2</u>			ALLOW TO ALLOW TO ALLOW					Center Sweep 4z 7.1 GHz 20 ms Adaptive Broadband Ltd. EUT: AF 5.25-5.35GHz Band. Top Chan.
: 29: 58 18.9 dBm/Hz 6.0000 GHz	01 02 04-02	:		Aproletterb. Appleants					 an 6Hz or Adaptive 5.25-5.356
9 Time 06 erker –9	####			100	,				2.2 d by RFI f 07 (6) Tx.
Date 22. Apr. '99 Time 06 Pef.Lv1 Marker	. <del></del>								Start Spurious EIRP, Tested by RFI for Limit, FCC Part 15.407 (b) Tx. 5.
Date Per		-10.0	-30.08-	-40.0	-50.0	60.09	0.0%	2. G	Star Star 6 6 Spurious F

										P	Q# [-			
1 MHz	10 db [db]						*****						Stop 8.2 GHZ	ss Point JD01/109
Vid.B₩	AF,Att Unit						A Principal Services						Stop 8.2 GHZ	H/38797/
1 MHz [imp]	呈						Att and the							불
***	220.0	-27.00 dBm OFF OFF					A STATE OF THE STA						Sweep 20 ms	Ltd. Bott.守
Res.Bw			 			ļ	attendant abuse		• • •				Center Z 7.1 GHz	Broadband 56Hz Band.
0C *	5050 GHz	25 25 27 27 27					- Charles							Adaptive 725-5.82
3.00 OR 23	200 200 200 200 200 200 200 200 200 200						And the second						2.2 약	HI for
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JV]	Mef.Lv]	11.00					- Andrews						Start 6 GHz	Spurious EIRP. Tested by RFI for / Limit. FCC Part 15.407(6) Tx. 5.)
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1 MHz	68 88 88	[					terrespondant		:			ā	a.2 金克 8.2 金克	ss Point JD01/110
Vid.Bw	AF.Att Unit						-							AB Access Access Point 1. 6PH/38797/JD01/110
1 MHz [imp] Off	型型	-27,00 dBm OFF OFF						:					35.5 S.5 S.5 S.5 S.5 S.5 S.5 S.5 S.5 S.5	td. EUT: Top. Char
Res.Bw TG.Lv1	CF.Stp	,				• • •	والماريون والمواجعة والماري			, ,			Center 7.1 GHz	Adaptive Broadband L. 725-5.8256Hz Band.
6: 37: 57	97.4 dBm/Hz 6,5060 GHz	F1 0FF 01 F2 0FF 02 F2-F1 0FF 01-02			:					:			oan GHz	for Adaptive 5.725-5.82
Time 0	ırker				:	Þ							ળ પ્રુત્ય	1 by RFI 37 (6) TX.
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LIMITE, FUE FOIL 10.40/ (U)

						A OI	
1 MHz 0 dB			Š	<b>1</b>			Stop 12.5 GHZ 55 Point J001/111
Vid.Bw AF.Att IInit	\$ <b>1</b>			art Allen pridate			Stop Stop 12.5 GHZ AB Access Access Point GPH/38797/JD01/111
1 MHz[imp] 0ff 430.000 MHz	-27,00 dBm OFF OFF			Carlo Agrico Agr			Sweep 40 ms td. EUT: AB Ac t.Chan.
Res.Bw 16.Lv] CF.Stp	955			and on the property of the state of			Center Sweep 10.35 GHz 40 ms Adaptive Broadband Ltd. EUT: 15-5.25GHz Band. Bott.Chan.
Time 06: 49: 32 cer -96.9 dBm/Hz	9.4670 912 OFF D2 OFF D3-D2			Alexander of the second			Span 4.3 GHz 19 RFI for Adaptive (6) Tx. 5.15-5.256
Date 22.Apr. '99 Time Of Pef.Lv]	F1 60 60 67 67 67 67 67 67 67 67 67 67 67 67 67	0	-10.0	-30.0 -40.0	-50.09-	-70.0	Start Start 8.2 GHz Span Spurious EIRP. Tested by RFI for Limit. FCC Part 15.407 (b) Tx. 5.
A.		1	4	6 4	<b>ጥ</b> Φ	-7 -8	5. S. L.

1 MHz 0 dB [dBm]	-[]-	Stop 12.5 GHZ 3 Access Access Point 6PH/38797/JD01/112
		12. 12. 97/J00
Vid.Bw RF.Att Unit		/BE/HG
	ON THE RESERVE TO THE	
1 MHz [imp] Off 430.000 MHz -27.00 dBm OFF OFF	Littly and	Center Sweep 40 ms 40 ms 40 ms 15-5.256Hz Band. Top.Chan.
1,59₽		
Res.Bw Te.Lv1 CF.Stp		Center Broadba Az Band.
3m/Hz   GHz -02		5.256 5.256
LVLOFF Date 22.Apr.'99 Time 06:45:40 Ref.Lv1 Marker -96.9 dBm/Hz 7.10 dBm 0FF 01 F2-F1 0FF 0FF D1-D2	Araper SARV	S 25 5. 55 15. 45
96. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		-50.0 -60.0 -80.0 -90.0 Start 8.2 GHz Spurious ETRP. Tested by RFI for Limit. FCC Part 15.407 (6) Tx. 5.
888 Fer 35 11.00 10.00 1		404 BB 40
Apr. 's		T 15st
- <sup>1</sup>	1	25 gt
V Date 2, 10 de 1, 1	-10.0 -20.0 -30.0	-50.0 -70.0 -80.0 -90.0 -90.0 -90.0 -90.0
<b>2</b>	-10.0 -20.0 -30.0	-50.0 -60.0 -70.0 -90.0 Spurio

		PA 10 FI
1 MHz [689]	5	Stop 12.5 GHZ SSS Point /JD01/113
Vid.Bw BF.Att Unit		Access Access Point 6PH/38797/JD01/113
1 MHz [imp] 0ff 430.000 MHz -27.00 dBm		Center Sweep 40 ms 40 ms 25-5,356Hz Band. Bott Chan.
Res.Bw 16.Lv1 CF.Stp		Center 10.35 GHz Broadband
Date 22.Apr. '99 Time 06:53:06   Pef.Lv1	20-1-0	-40.0 -40.0
Date 22.7 Ref. Lv1 7.10 dBm	-10.0 -20.0 -30.0	-40.0

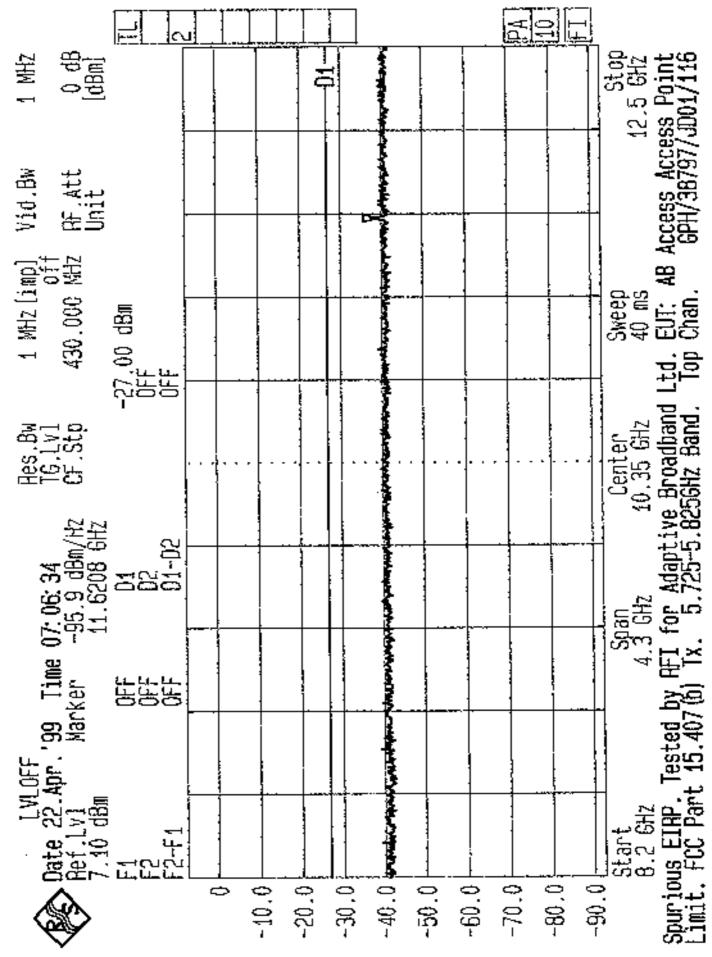
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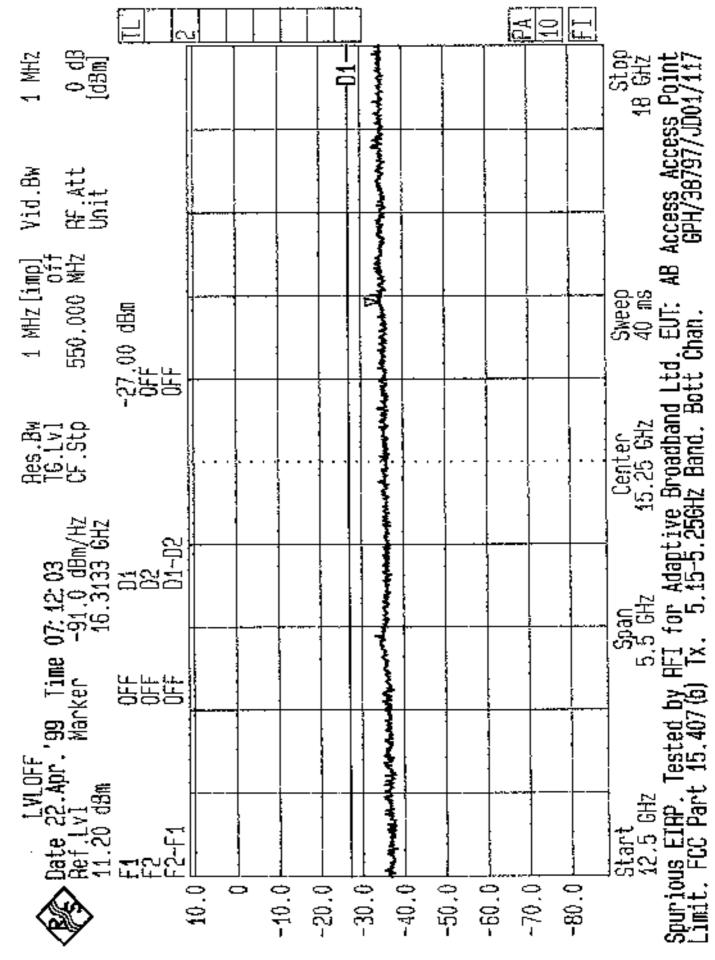
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1 MHZ 6 0 6 0 0			à				Stop 12.5 GHZ ess Point /JD01/114
Vid.Bw RF,Att Noit	5			te south the same			Stop 12.5 GHZ Access Point 6PH/38797/JD01/114
1 MHz [imp] off 430.000 MHz	-27.00 dBm OFF OFF			Andreas de la companya de la company			₩ 9
Hes.Bw 16.Lv] CF.Stp	-22			dian contain aproxima			Center Sweep 10.35 GHz 40 ms Adaptive Broadband Ltd. EUT: 25-5.35GHz Band. Top Chan.
96. 9 dBm/Hz	19.50 10.00 10.00 10.00			D Williams			oan GHz for Adaptive 5.25-5.35G
39 Time Marker					-		ted by RFI 407 (6) TX
LVLOFF LVBef 22.Apr. '9 Ref LV]	F1 F2 F2-F1			Mary Control of the Control			Start Span 8,2 GHz Spurious EIRP. Tested by RFI for Init. FCC Part 15,407 (b) Tx. 5.
		0	- <u></u> 40.0 -20.0	-30.0	-50.0	-70.0	-90.0 Spurious

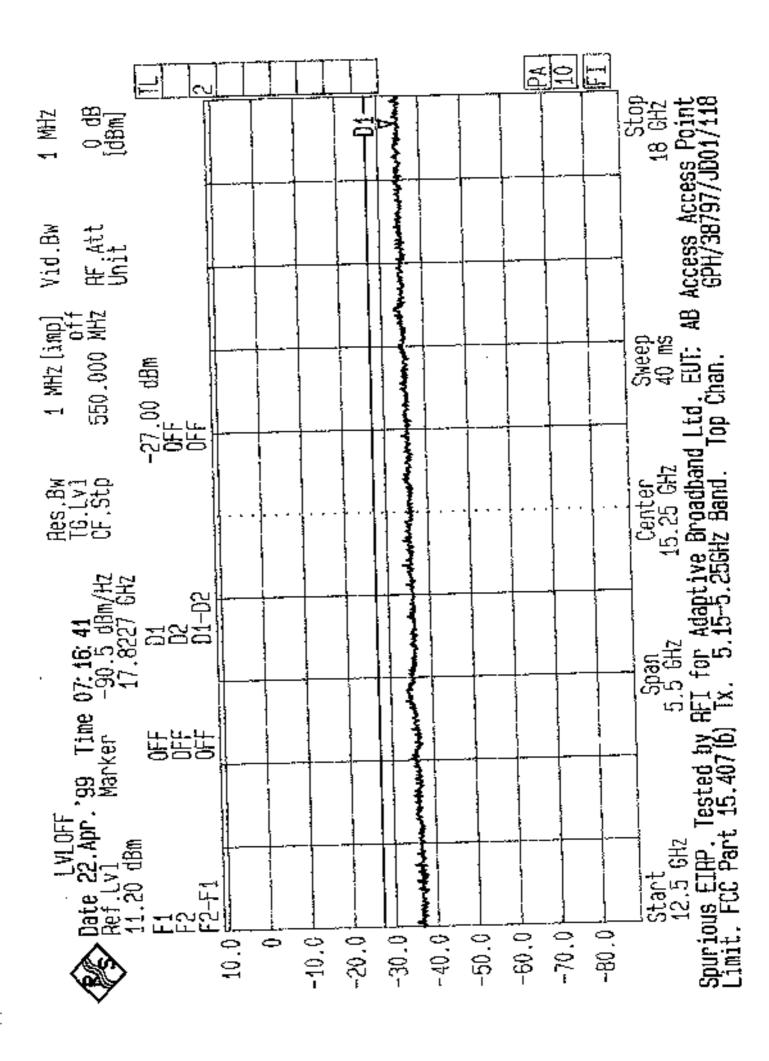
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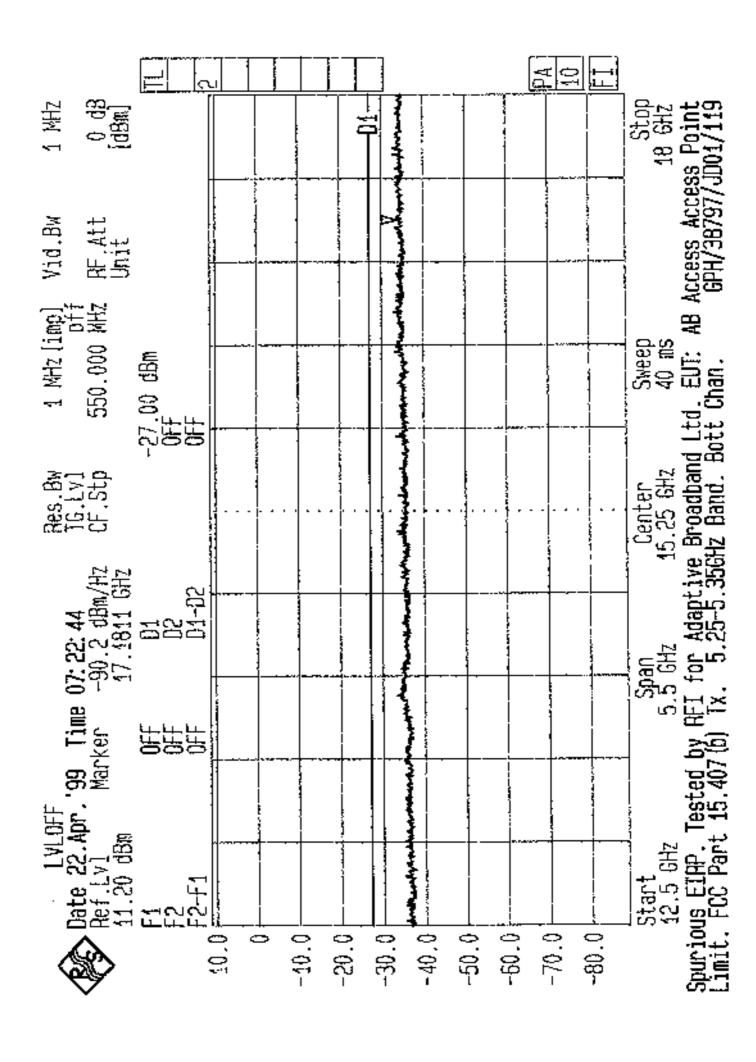
1 MHz 0 dB [dBm]		<del></del>
Vid.Bw FF.Att Unit		AB Access Access Point GPH/38797/JD01/115
1 MHZ [imp] 0ff 430.000 MHZ -27.00 dBm 0FF 0FF		Sweep 40 ms Ltd. EUT: AB / Bott Chan.
Res. Bw TG. Lv1 CF. Stp		Adaptive Broadband L
LVLOFF Date 22.Apr. '99 Time 07:02:58 Ref.Lvl Marker -97.1 dBm/Hz 7.10 dBm 0FF 01 F2 F2-F1 0FF 02 D1 F2-F1		for Adaptive 5.725-5.82
'99 Time O Marker - OFF OFF OFF		ted by RFI
LVLOFF Sate 22.Apr. Ref.Lvl 7.10 dBm F2-F1	A CONTRACTOR OF THE CONTRACTOR	-50.0 -60.0 -80.0 -90.0 Start Start 8.2 GHz Spurious EIRP. Tested by RFI for Limit, FCC Part 15.407 (b) Tx. 5.
	-20.0	-50.0 -60.0 -70.0 -90.0

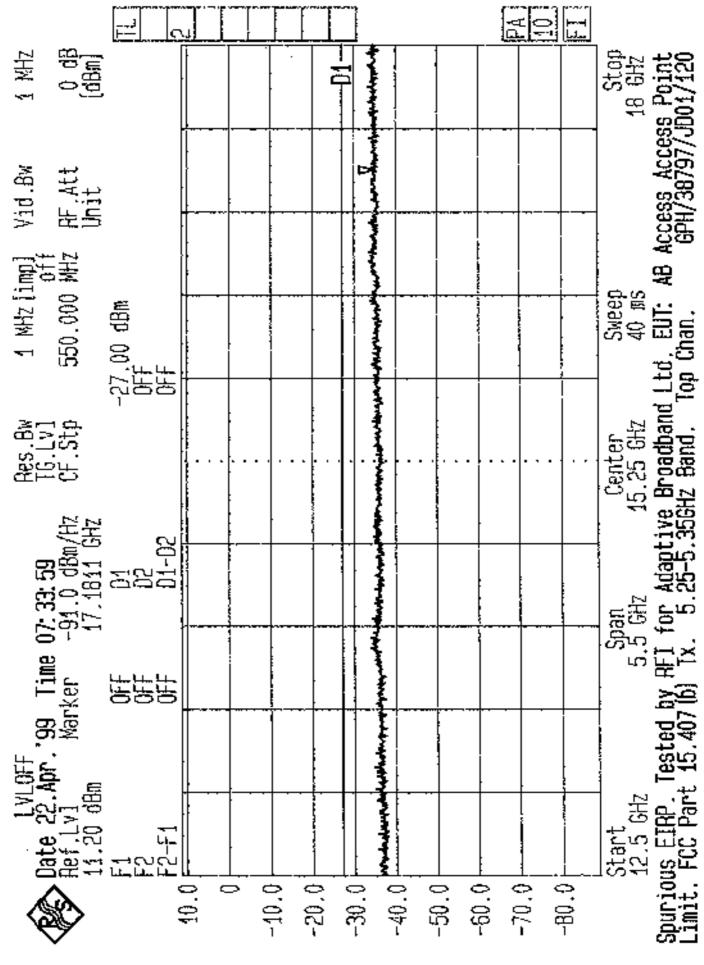
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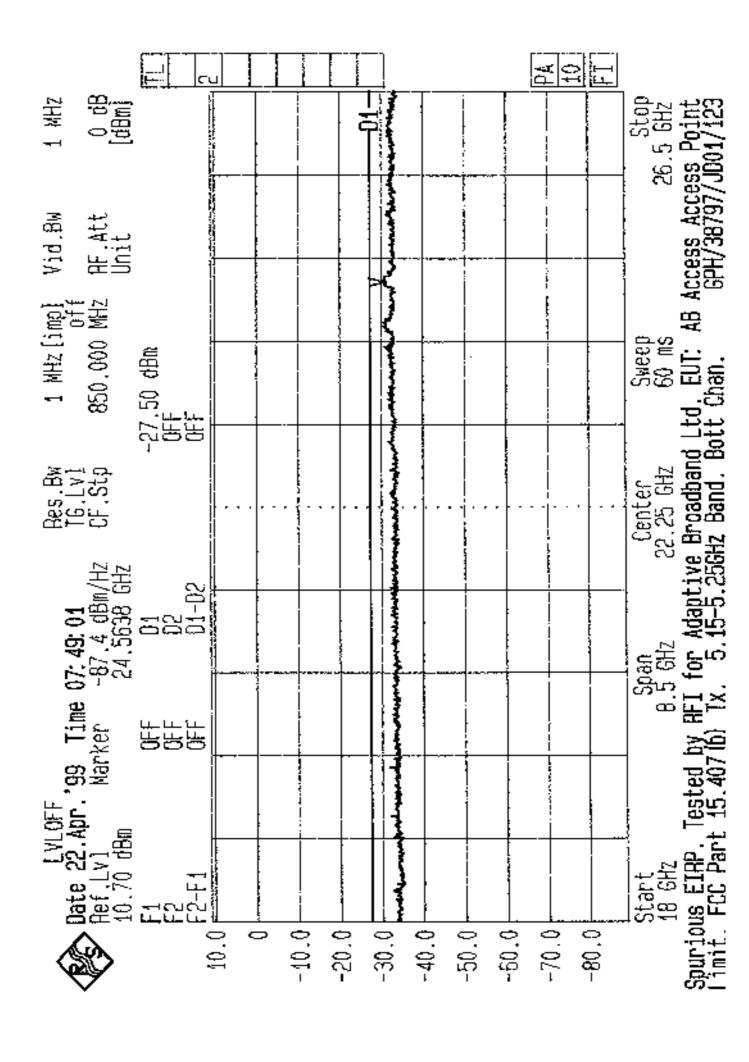


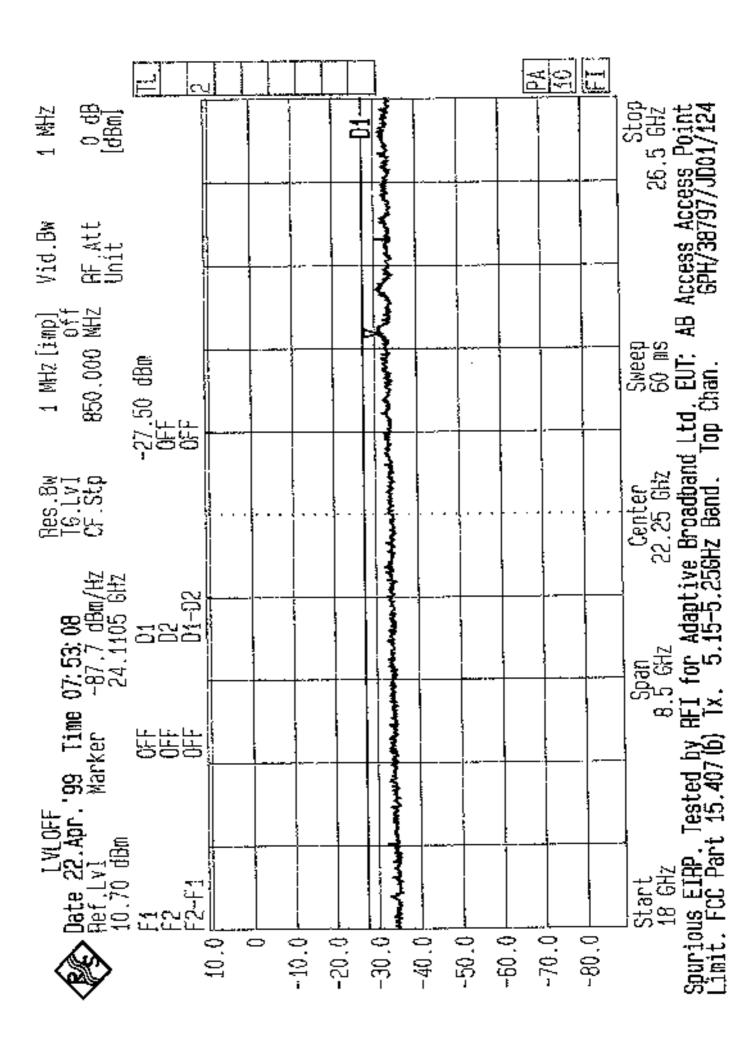


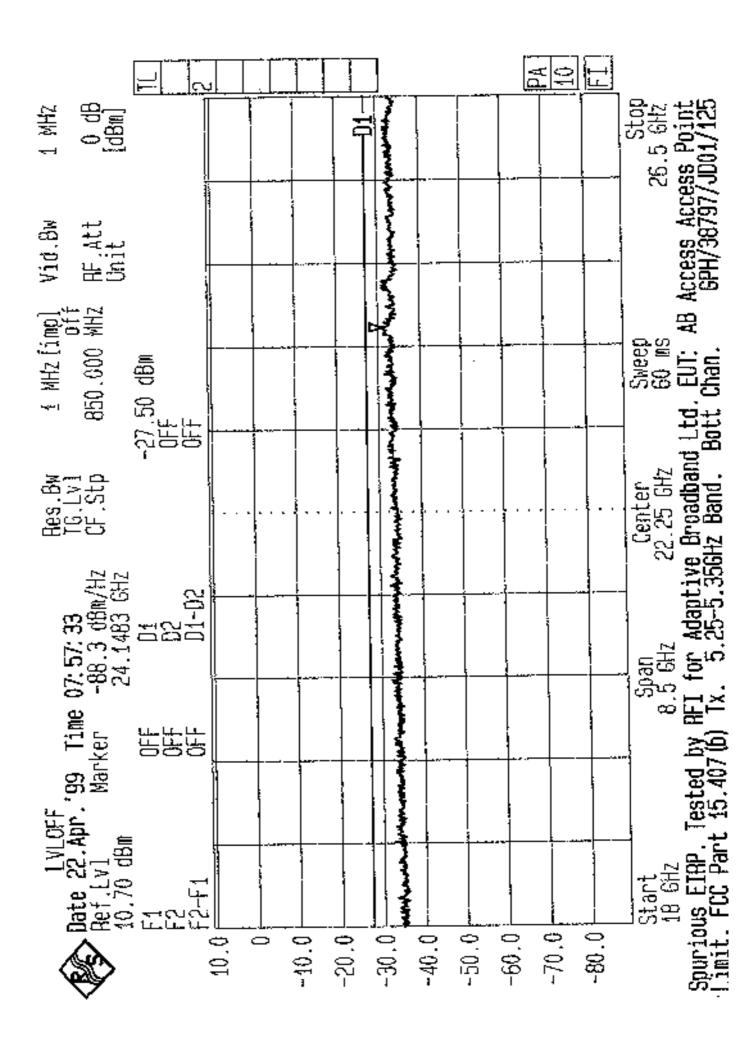


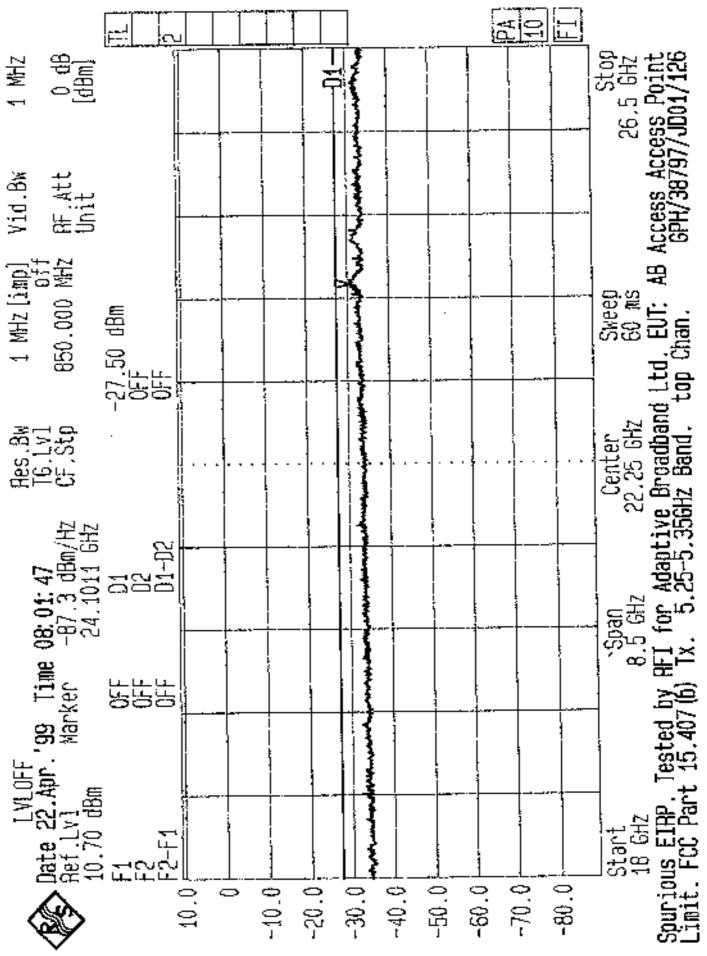
1 MHZ 0 dB [dBm]				P. 10	Stop 18 GHZ ess Point /JD01/121
Vid.Bw RF,Att Unit			A Company		Stof 18 GHZ Access Point 6PH/38797/JD01/121
1 MHz [imp] 0ff 550.000 MHz -27.00 dBm 0FF 0FF					Sweep 40 ms Ltd. EUT: AB Bott Chan.
Res.Bw TG.Lv] CF.Stp					Center 15,25 GHz Adaptive Broadband .725-5.825GHz Band.
LVLOFF  Date 22.Apr. '99 Time 07:37:39  Nef.Lv]  Marker -90.3 dBm/Hz  11.20 dBm  F1  F1  F2  OFF  OFF  OFF  OFF  OFF			No.		Span 5.5 GHz RFI for Adaptive Tx. 5.725-5.82
r. '99 Tim Marker Marker OFF					Tested by F 15.407 (b)
14.0 Date 22.4F Ref.Lv] 11.20 dBm F7 F7 F2	10.0	-10.0	-30.0	-70.07-	Start 12.5 GHz Spurious EIRP. Tested by RFI for Limit. FCC Part 15.407 (6) Tx. 5.

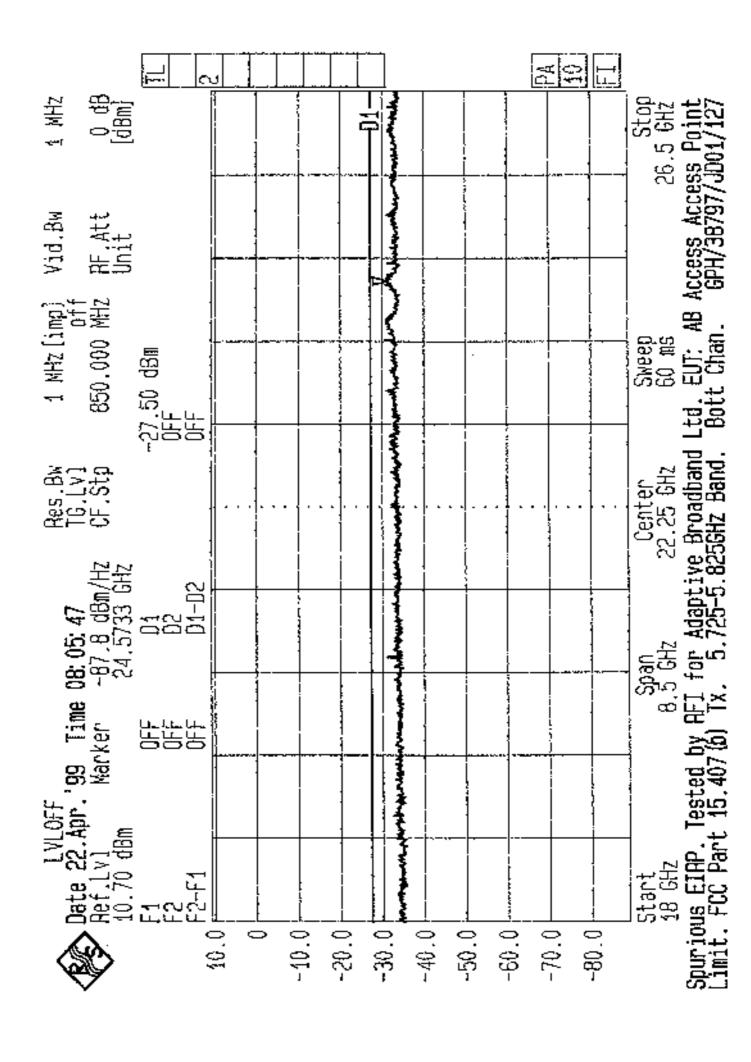
	F C				]			7 <u>G</u>	0		
1 MHZ 8b 0 [m8b]				-01-	d					10	18 GHZ ISS Point JOO1/122
Vid.Bw PF.Att Unit					Married Married			<u> </u>	-		18 GHZ 18 GHZ Access Point 6PH/38797/JD01/122
1 MHz[imp] Off 550.000 MHz	-27.00 dBm OFF OFF		 						-		Adaptive Broadband Ltd. EUT: AB Au 725-5.8256Hz Band. Top Chan.
Aes.Bw TG.Lv] CF.Stp	'	 	,,.		-		- · ·				5.25 GHz Broadband 56Hz Band.
LVLOFF  Date 22.Apr. '99 Time 07:42:27  Ref.Lvl Marker -90.0 dBm/Hz 11.20 dBm					A STATE OF THE PARTY OF THE PAR						Start 12.5 GHz Spurious EIRP. Tested by RFI for Adaptive Fimit. FCC Part 15.407(b) Tx. 5.725-5.829
	•		10.01	מי ממ	. 30.t	140.0		100.0	- ABO 0	?	Spurio 1 imit.

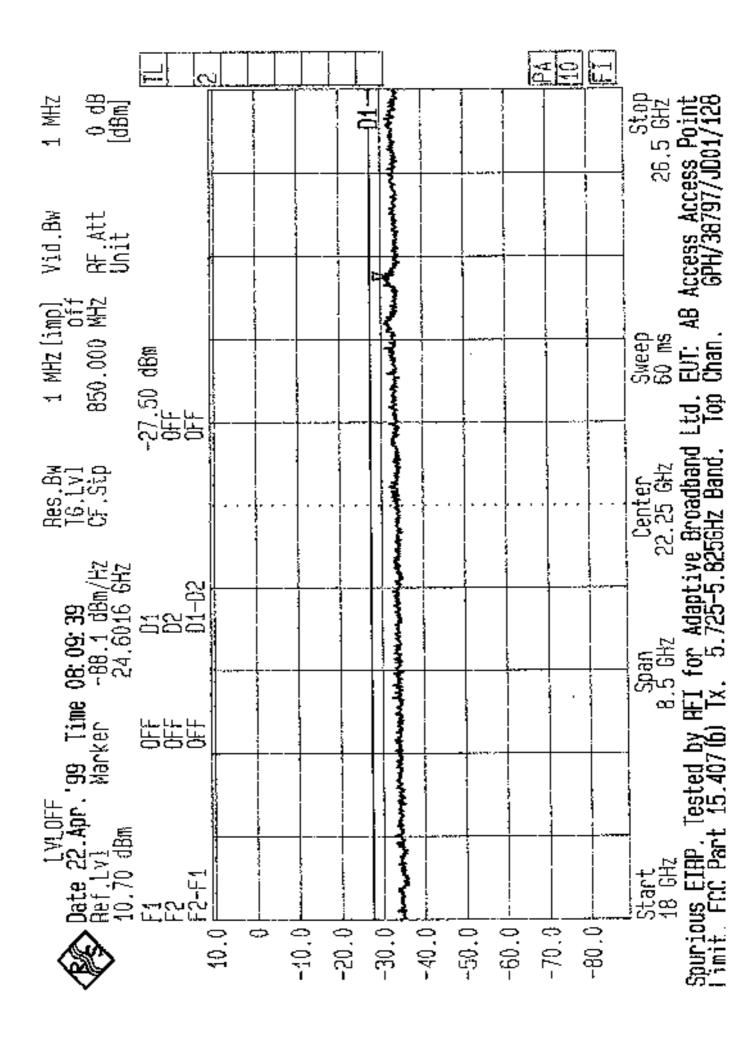












LVLOFF Date 22.Apr.'99 Time 09:53:07 Aef.Lv] -14.90 d8m	Res.Br Cf.Stp	1.0 NH7 [363] 1.350 SH1	YEG.3% 1 785 AF.244 0 GB Unit (630)	# <b>8</b> 를
-20.0 =				[ 1 <u>1</u>
-30.0 - -40.0 - months and a second s	and the second	مخرودواماويا أوسالا كالجافرة ويوواه	to the second showing the second seco	, n <b>y</b>
•				r
-60.0 ÷				. 1 1.
70.08-				
- 0.06				I .
-,00.00-				. г.
Start	Center 33, 25 GHz Broadband 6Hz Band.	Center 3.25 GHz Soms Broadband Ltd. EUT: AB Au Hz Band. Bott. Chan. (	Sto 40 GH AB Access Access Poin an. 6PH/38797/JD01/12	. <sup>기</sup> 등문 <b>보</b> 였

10.00 met 00. 740.00	Jes_3%	4.0 232 [363]	716.BX	<u>計</u> 提
Jate 22. Apr. 98 (130 09. 93. 63 364,191 74,90 63m 38,2800 692	65,5tp	1.350 GET	onit at	0 d3 (d3%)
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-40.0 Software the separate section and separate section and secti	~\r\#\#\\#\\	إمواء أداوية فالحمل مابيله	سيدناهمها والافاداء المرادية	**************************************
-50.05-				
-60.03-				٠,
- 0.0%				J.
-80.08-				<b>,</b>
÷0.06~				
-200.0-				'1 "
-	·-		: : : : : :	· .,
Span Center 26.5 GHz 33.25 GHz 33.25 GHz Spurious EIRP. Tested By RFI For Adaptive Broadband Limit, FCC Part 15.407 (b) Tx. 5.15-5.25GHz Band.		Sweep 60 ms Ltd. EUT: AB Top Chan.	Sto 40 GH Access Access Poin GPH/38797/JD01/13	Step 40 GHZ 1 Point 101/130

Res. 3w 1.0 MHz [3d8] Mid. 3w 1 MHz	CF.Stp <u>1.350 GHz</u> RF.Att <u>0.43</u> Unit			والمستوال المستوالية والمستوارية والمستوار						Suppos	3.25 G社 60 ms 40 G社 Broadband Ltd, EUT. AB Access Access Point Hz Band, Bott Chan, GPH/38797/JD01/431
S C	33.7450 GHz	-20.05	-30.06-	740.0 jangan katapangangan kanangangan kanangan kanangan kanangan kanangan kanangan kanangan kanangan kanangan 750.0 j	-60.03-	-0.0%	-80.0 =	-90.05	-20007-		26.5 6-2 (3.5 6-2 ) 23.2 6-2 Spurious EIRP. Tested By AFI For Adaptive Bro Limit. FCC Part 15.407 (b) Tx. 5.25-5.356Hz

1.0 Myz [3d3] (Y5d.9x) 1 Myz	1,350 SK 38, Att 0, dB	-	T.C		···•	•	•		1	•		Sweey 60 ms 60 ms EUT: AB Access Access Point Chan. 6PH/38797/JD01/132
0:	4.1	<u>.</u> .		P								
Res. 3%	GF, Stp	:		ورحد المكرموليويريان							: · · · · · · · · · · · · · · · · · · ·	33,25 GHz Broadband Ltd. 56Hz Band. Top
171.0FF 0-4-0 19 Jun 100 Time 00-50-50	Aef.191 Marker -38,49 dBm -24,90 dBm 33.6700 651	-50.05-	-30.6-	Partitudes of the second secon	- 0.0c-	-60.03-	-10.07-	-80.0-	-0.06	-400.9	- 9.012-	Span 25.5 GHE 43.5 GHZ 33.2 Spurious EIRP. Tested By RFI For Adaptive Bro Limit. FCC Part 15.407 (b) Tx. 5.25-5.35GHz

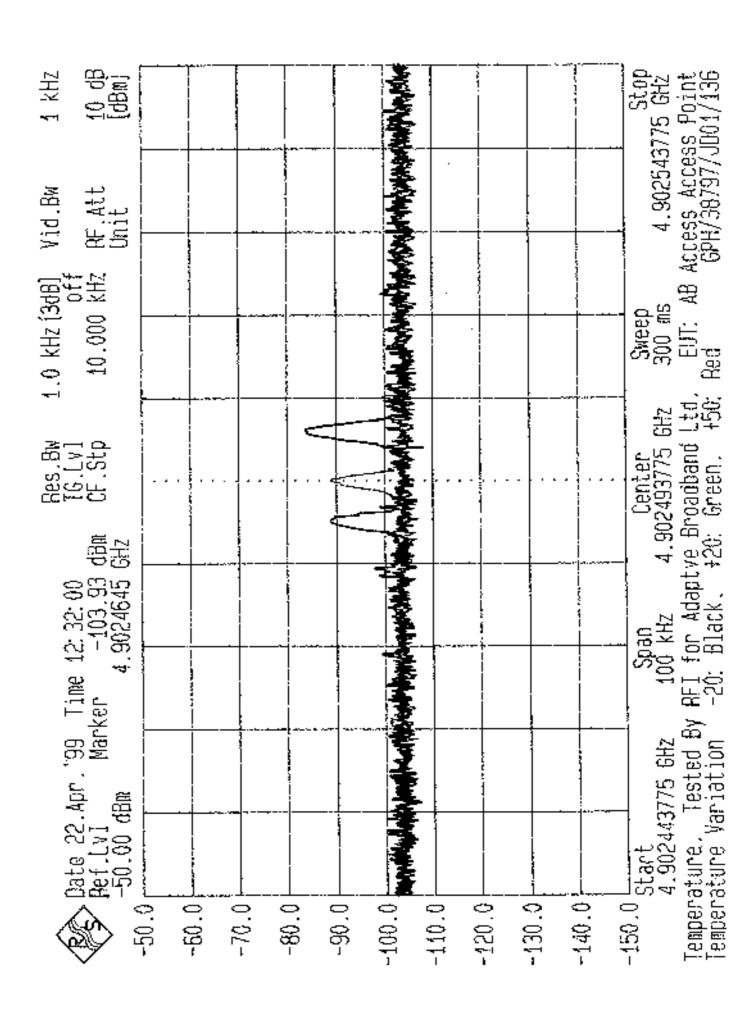
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Vid. 3w 1 X5z 3F. Att 0 003 Unit (43m;	يا المجاوفة والمجاور المجافد ومراهم ومدارة	J	S: 00 40 G:12 Access Point GPH/38797/JD01/133
1.0 ME2 [363] 1.350 GHz		•	Sweep 60 ms Ltd, EUT: AB Bott Chan.
Res. 3%	المنطقة مرساطة ورسوطهم		Center 33,25 GHz ve Broadband 1.8256Hz Band
Date 22. Apr. '99 Time 10: 02: 10 Ref. Lv1 -24.90 d3m	or production and particular control of the second of the		Span 13.5 GHz 33 sted By RFI For Adaptive F 15.407 (b) Tx. 5.725-5.829
171.055 Date 22.Apr. Ref.Lv3 -74.90 d3m -24.90 d3m	-30.0 - -40.0 - -50.0 -	-70.05- -80.06- -50.05-	-110.0 - Start Span 13.5 67 (a) Tested By AFI For Limit. FCC Part 15.407 (b) Tx.

Pes. By 300 GHZ. Center 2 33,25 GHZ. Adaptive Broadband 5,725-5.8256HZ Band.	4.0 REX (3d3) Vid.3w C REZ 4.350 GEZ NF.Ett 0 d8 Unit (d8m)	Andre Comment of the same of t	 Sweep Sweep 60 ms 60 ms A0 GHZ Ltd. EUT: AB Access Access Point Top Chan. GPH/38797/JD01/134
Start 19 6.55 6.55 6.55 6.55 6.55 6.55 6.55 6.5	.51 .13 d3m CF 300 G42	-30.0 = -20.0	Span 13.5 GHz 1P. Tested By RFI For Adaptive Part 15.407 (b) Tx. 5.725-5.82

Ţ.

Bes. Bw 1.0 kHz [3dB] -50.00 dBm Aarker -86.41 dBm CF.Stp 10.000 kHz -50.00 -50.00 dBm A.9024934 GHz -50.00 -90.0 -90.0 -100.0 -120.0 -130.0 -150.0 Start Span Center Sweep -150.0 Start Span 200 kHz Adaptve Broadband Ltd. EUT. AB Asignly Varaton B 200 0. Black . +15; Green -15; Red	Vid.Bw 1 kHz RF.Att 10 dB Unit [dBm]	Stop 4.902543775 GHz Access Access Point GPH/38797/JD01/135
Time 11: 04: 45 4.3024934 GH 4.3024934 GH 6.3024934 GH 7.3024934 GH 7.3024934 GH 7.3024934 GH 7.3024934 GH 8.3024934 GH 8.3024934 GH 9.3024934 GH 9.302493 GH 9.302493 GH 9.30249 GH 9	1.0 kHz [3dB] 0fi 10.000 kHz	Sweep 300 ms EUT:
Time 11: 04: 45 4.3024934 GH 4.3024934 GH 6.3024934 GH 7.3024934 GH 7.3024934 GH 7.3024934 GH 7.3024934 GH 8.3024934 GH 8.3024934 GH 9.3024934 GH 9.302493 GH 9.302493 GH 9.30249 GH 9	Res.Bw TG.Lv1 CF.Stp	Center 02493775 GH 3roadband L 3reen15
	Date 22.Apr.'99 Time 11:04:45 Ref.Lvi -50.00 dBm	Span 100 kHz 4. PFI for Adaptve 0: Black +15:



**EMC Department** 

Test Of:

Adaptive Broadband Ltd

**AB-ACCESS Access Point (AP)** 

To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 55 of 56

Issue Date: 19 December 2000

# **Appendix 5. Photographs of EUT**

This appendix contains the following photographs

Photo Reference Number	Title
PHT\38797ETF01\001	Side view of conducted emissions
PHT\38797ETF01\002	Front view of conducted emissions
PHT\38797ETF01\003	Rear view of radiated emissions
PHT\38797ETF01\004	Front view of radiated emissions

These pages are not included in the total number of pages for this report.

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To: F.C.C. Part 15 Subpart E: 1998

**TEST REPORT** 

S.No: RFI/EMCB2/RP38797A

Page 56 of 56

Issue Date: 19 December 2000

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**TEST REPORT Photograph Section** 

**EMC** Department

Test Of:

Adaptive Broadband Ltd
AB-ACCESS Access Point (AP)

F.C.C. Part 15 Subpart E: 1998 To:

# PHT\38797\001 Side view of conducted emissions



TEST REPORT Photograph Section

**EMC** Department

Test Of: Adaptive Broadband Ltd

AB-ACCESS Access Point (AP)

To: F.C.C. Part 15 Subpart E: 1998

# PHT\38797\002 Front view of conducted emissions



**TEST REPORT Photograph Section** 

**EMC** Department

Test Of:

Adaptive Broadband Ltd
AB-ACCESS Access Point (AP)

F.C.C. Part 15 Subpart E: 1998 To:

# PHT\38797\003 Rear view of radiated emissions



**TEST REPORT Photograph Section** 

**EMC** Department

Test Of:

Adaptive Broadband Ltd
AB-ACCESS Access Point (AP)

F.C.C. Part 15 Subpart E: 1998 To:

# PHT\38797\004 Front view of radiated emissions

