

Test Report: 1W03979

Applicant: Radio Frequency Systems
4100 SW Research Way
Corvallis, OR
97333
USA

Equipment Under Test: 48710 & 48722
(EUT) Signal Booster

In Accordance With: FCC Part 90

Tested By: Nemko Canada Inc.
3325 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:
R. Grant, Wireless Group Manager

Date:

Total Number of Pages: 88

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Section 1. Summary of Test Results**General****All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 90.

<input checked="" type="checkbox"/>	New Submission & Family Listing	<input checked="" type="checkbox"/>	Production Unit			
<input type="checkbox"/>	Class II Permissive Change	<input type="checkbox"/>	Pre-Production Unit			
<table><tbody><tr><td>A</td><td>M</td><td>P</td></tr></tbody></table>	A	M	P	Equipment Code		
A	M	P				

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.**THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.**

See "Summary of Test Data".

**NVLAP LAB CODE: 100351-0****TESTED BY:** _____ **DATE:** _____
Glen Westwell, Wireless Technologist

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This report applies only to the items tested.

Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1045	Complies
Occupied Bandwidth	2.1049	Complies
Spurious Emissions at Antenna Terminals	2.1051	Complies
Field Strength of Spurious Emissions	2.1053	Complies
Frequency Stability	2.1055	Complies

Footnotes For N/A's:**Test Conditions:**

Indoor Temperature: 24 °C
 Humidity: 36 %

Outdoor Temperature: 23 °C
 Humidity: 38 %

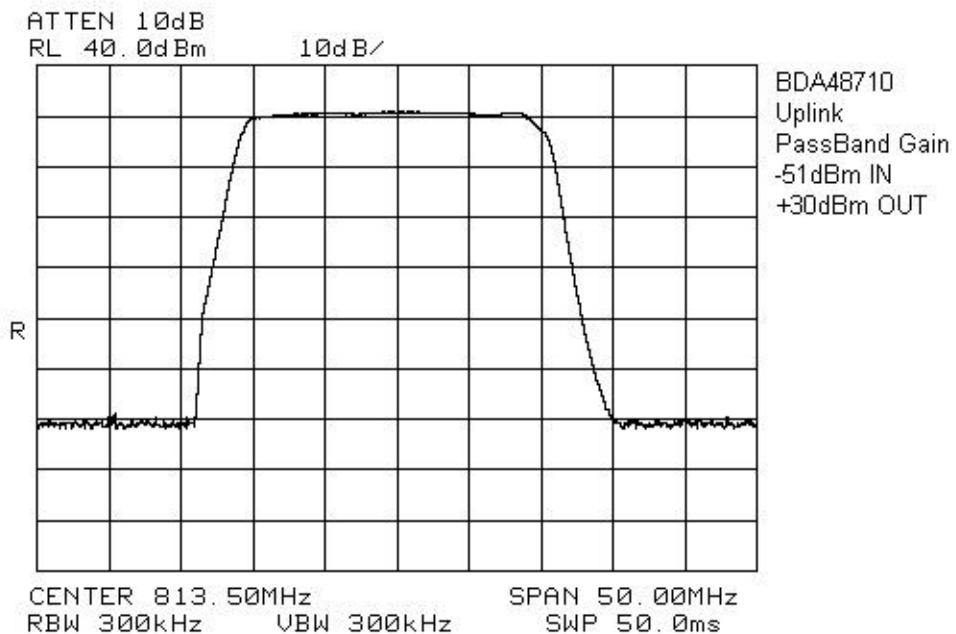
Section 2. General Equipment Specification**Manufacturer:** Radio Frequency Systems**Model No.:** 48710 & 48722**Serial No.:**
48710: 01231521624
48722: 01231521625**Date Received In Laboratory:** June 16, 2001**Nemko Identification No.:** Item # 1 & 2**Supply Voltage Input:** 120 VAC**Frequency Range:**
48710 Downlink: 851 – 869MHz
Uplink: 806 – 824MHz
48722 Downlink: 935 – 941MHz
Uplink: 896 – 902MHz**Output Impedance:** 50 ohms**RF Output (Rated):**
DXW & D7W = 0.5W (27dBm)
F3E = 1W (30 dBm)**Emission Designator:**
DXW
D7W
F3E

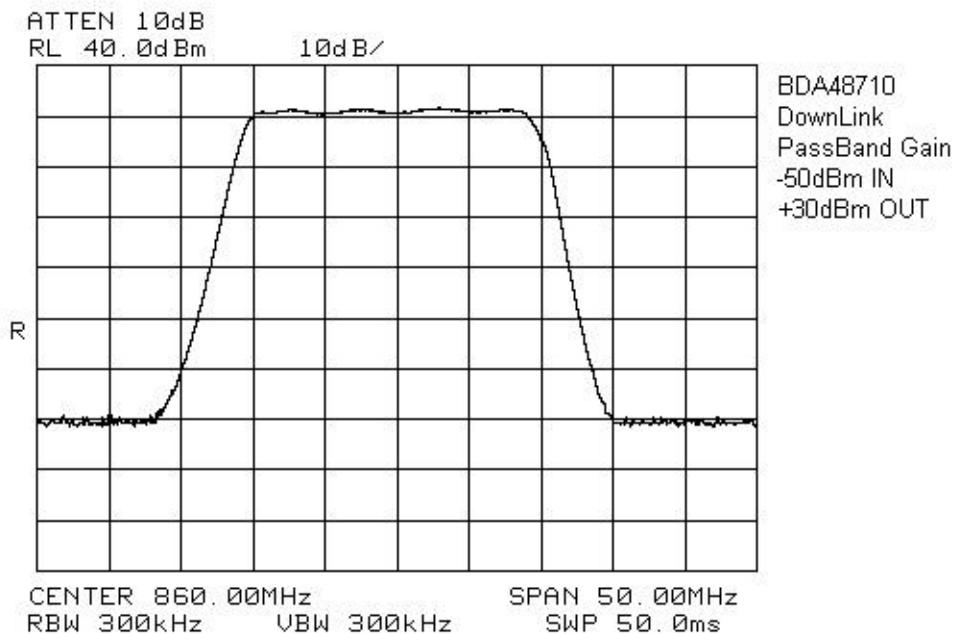
Section 3. RF Power Output**Para. No.: 2.1045****Test Performed By:** Glen Westwell**Date of Test:** June 28, 2001**Minimum Standard:** $\pm 1\text{dB}$ **Test Results:** Complies.**Measurement Data:** See attached graphs.

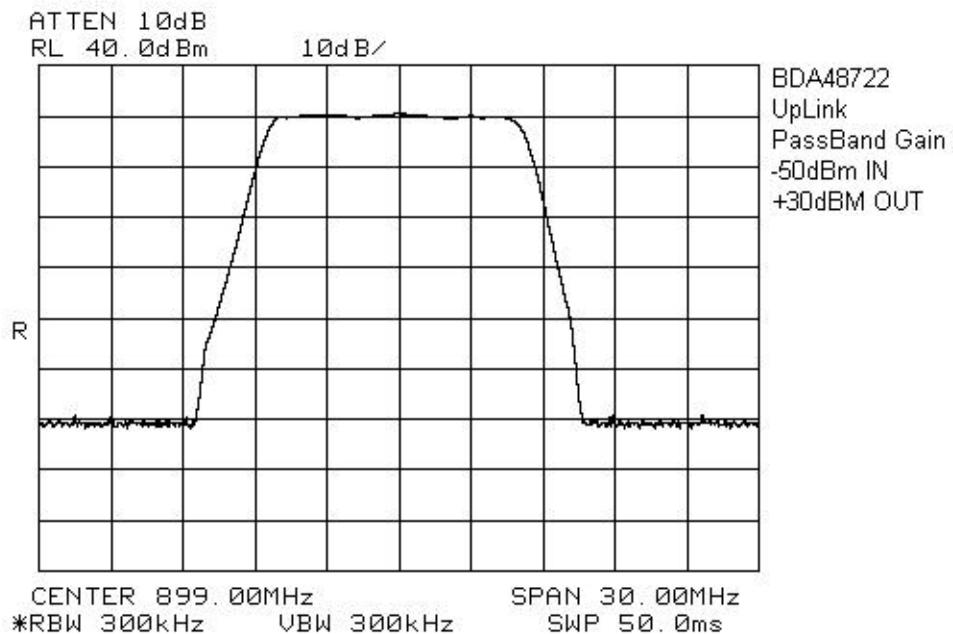
The maximum RF output power is within $\pm 1\text{dB}$ of the manufacturer's rating. The RF output power is de-rated according to the number of channels via AGC and is equal to $P_{\text{max}} - 10\log N$.

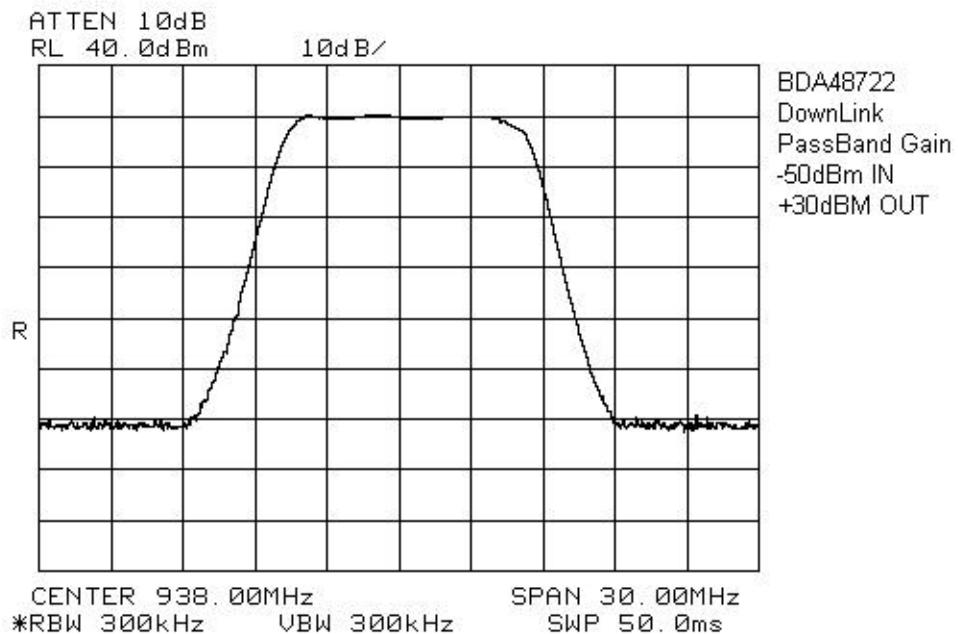
P_{max} = Maximum RF output power.

N = Number of channels.



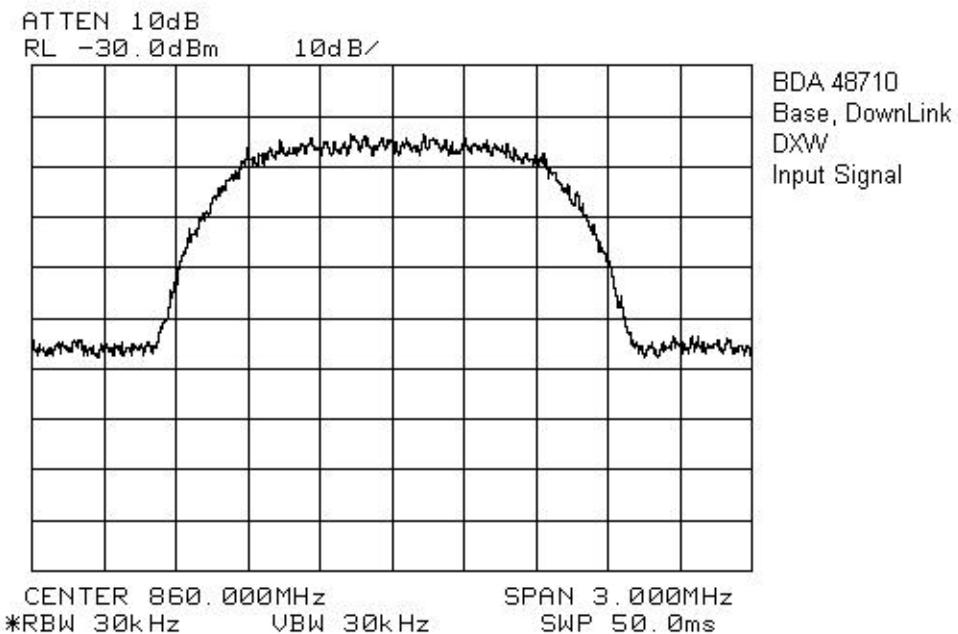


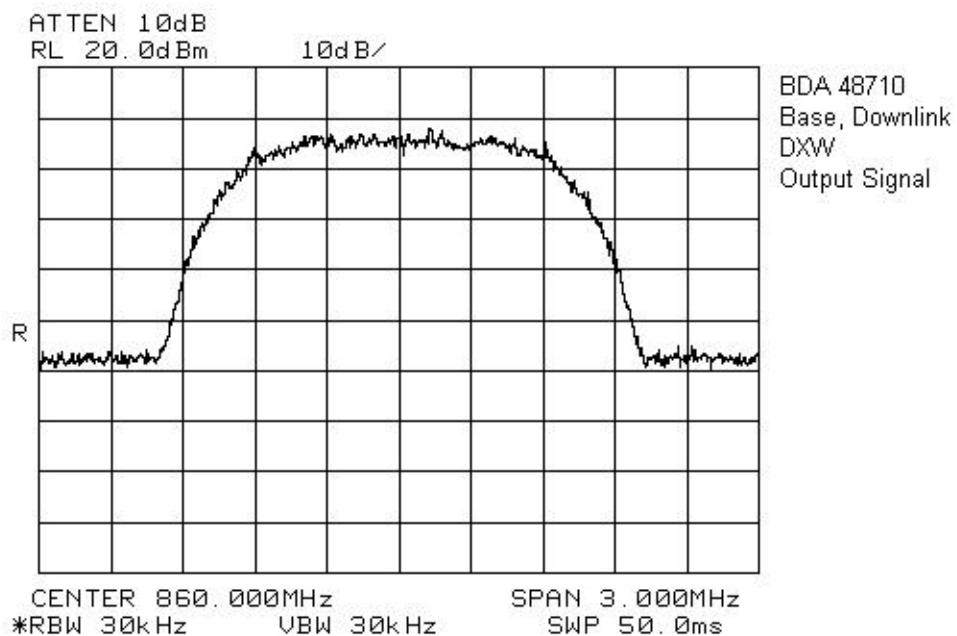


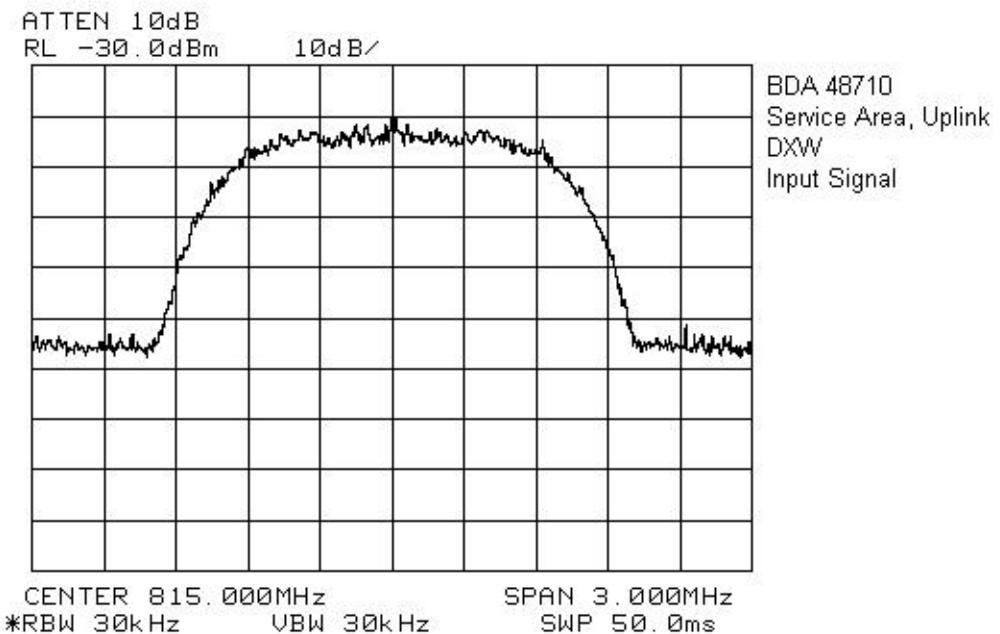


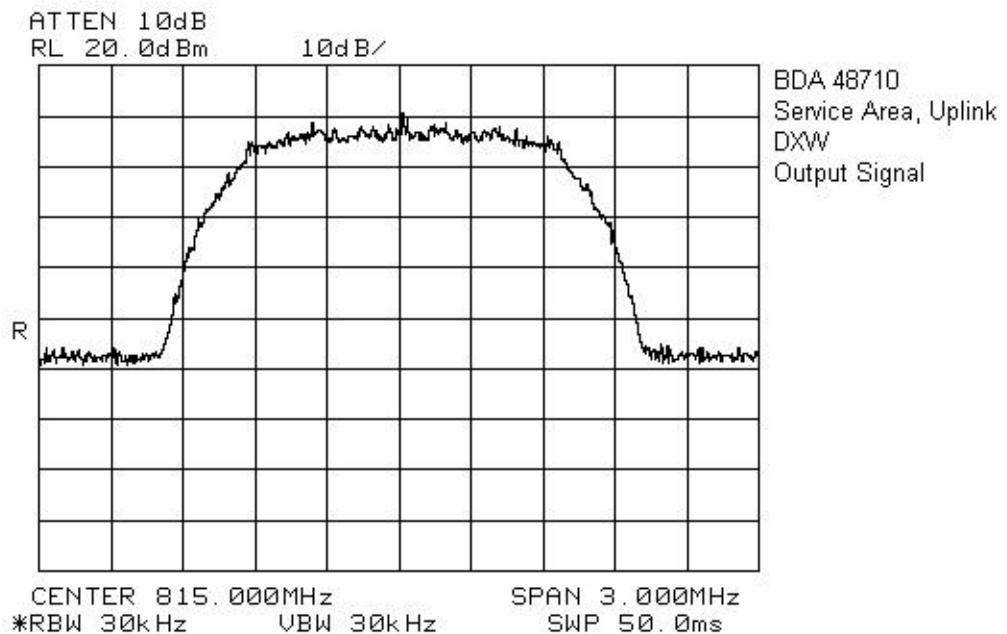
Section 4. Occupied Bandwidth**Para. No.: 2.1049****Test Performed By:** Glen Westwell**Date of Test:** June 28, 2001**Minimum Standard:** N/A**Test Results:** Complies. There is no degradation in the output signal.**Test Data:** See attached graph(s).

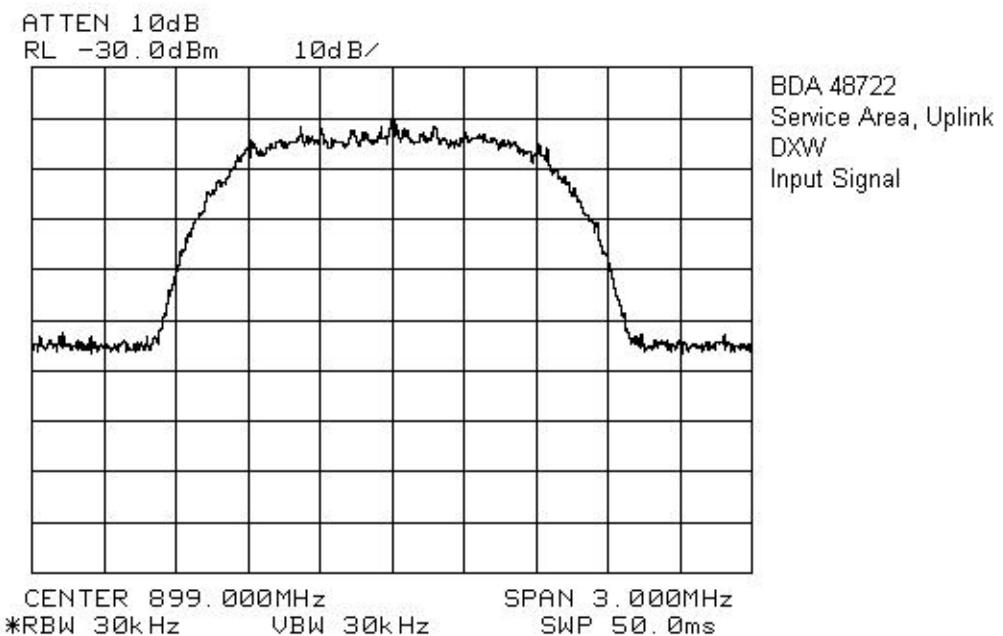
The occupied bandwidth was measured by comparison of the input to the output signal. This was done in order to determine if there was any degradation to the output signal due to the amplification through the signal booster.

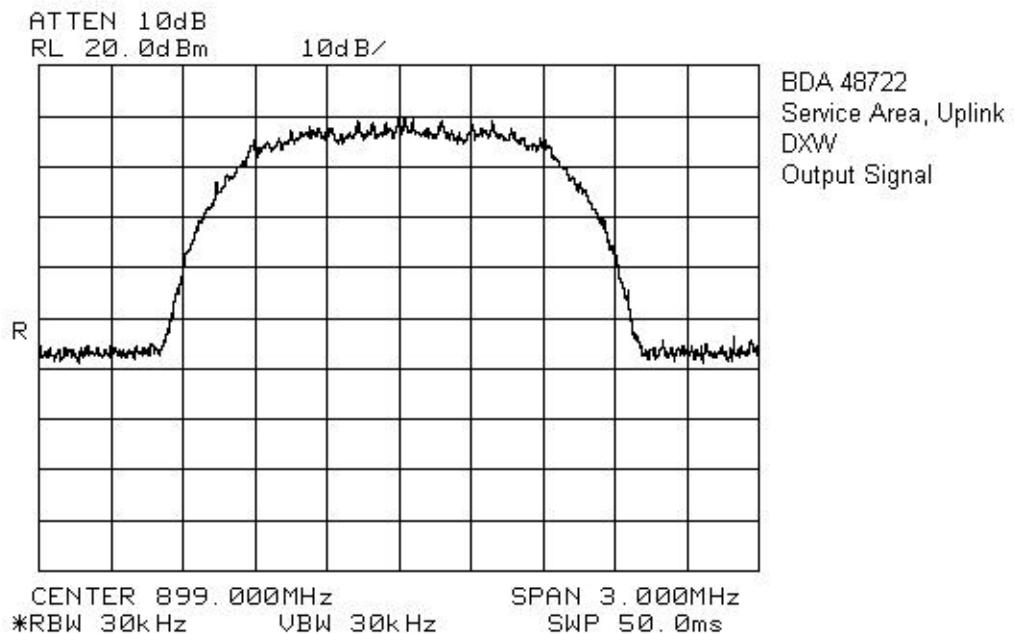
EQUIPMENT: 48710 & 48722 Signal Booster

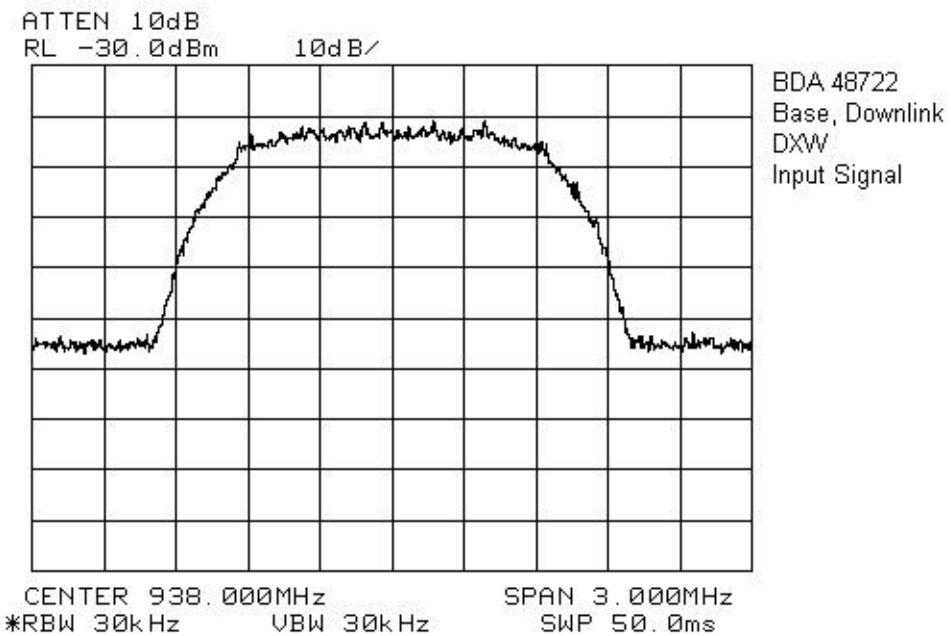


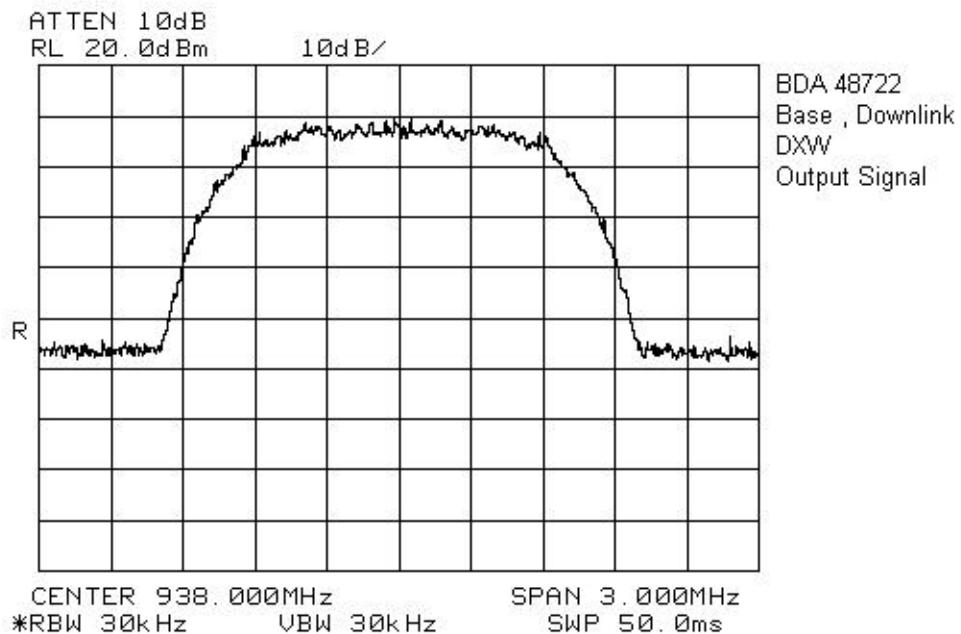
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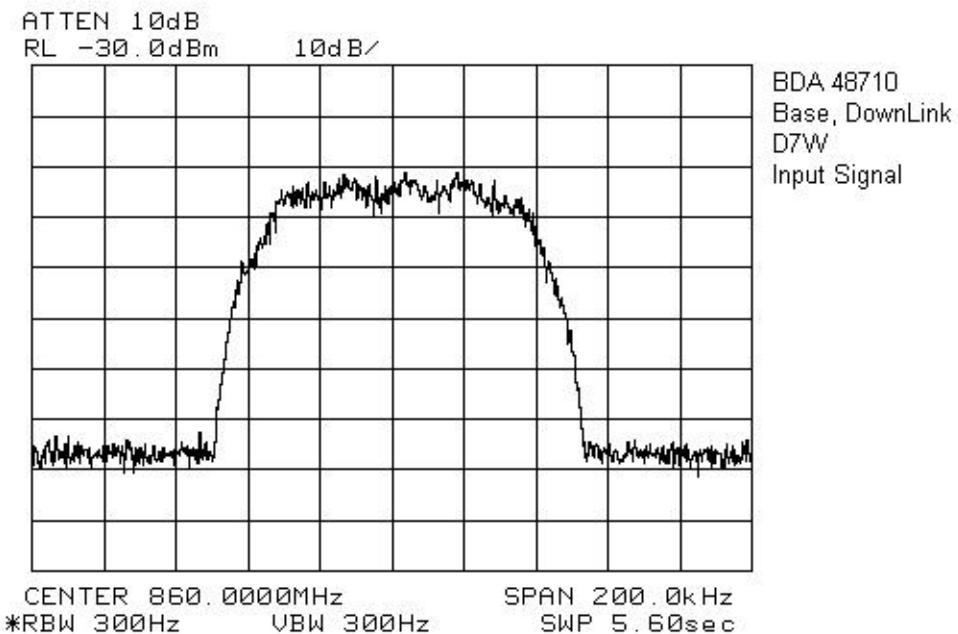
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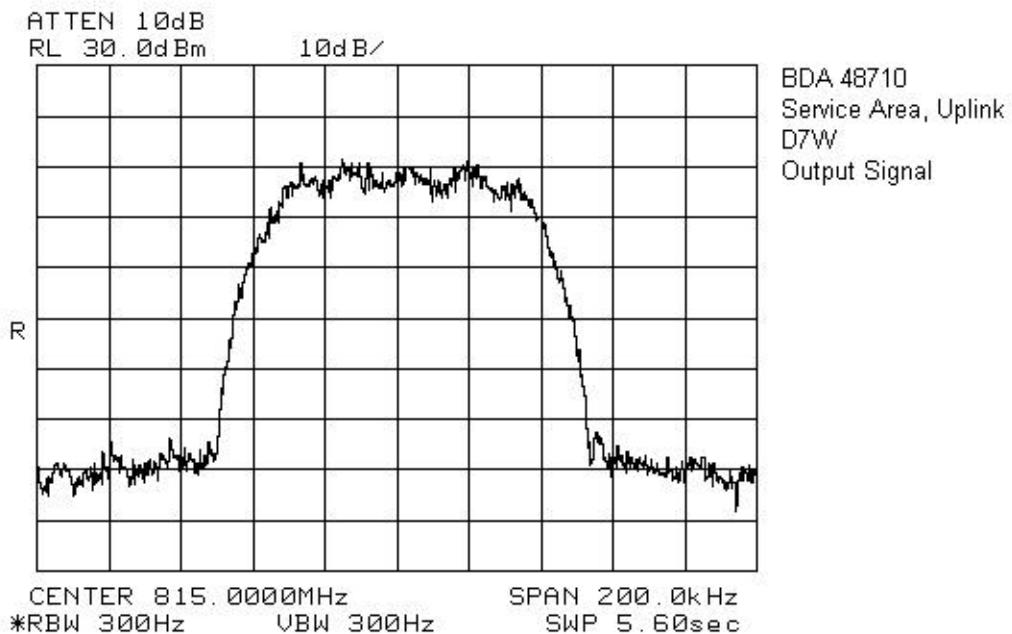
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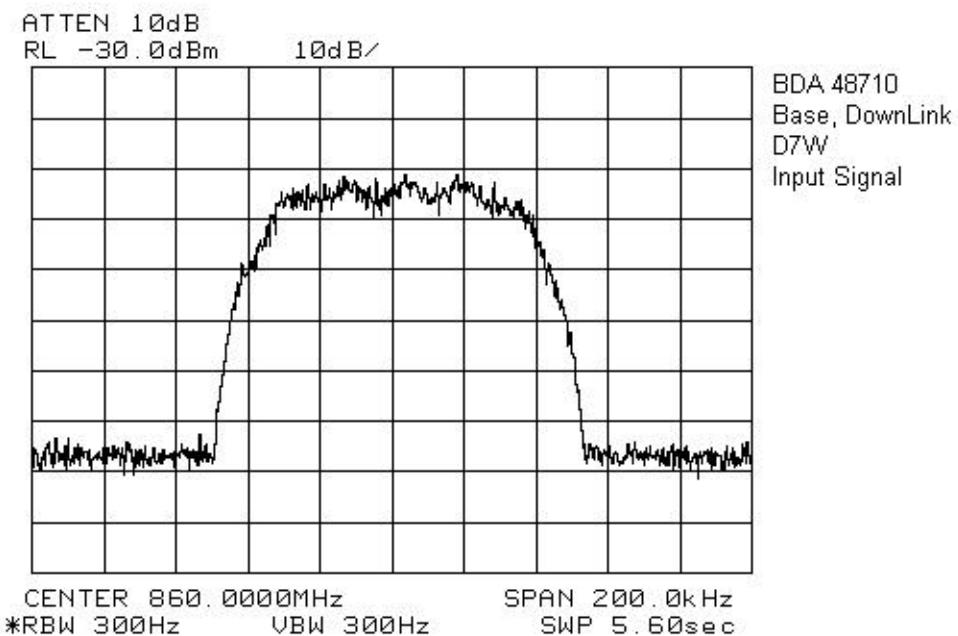


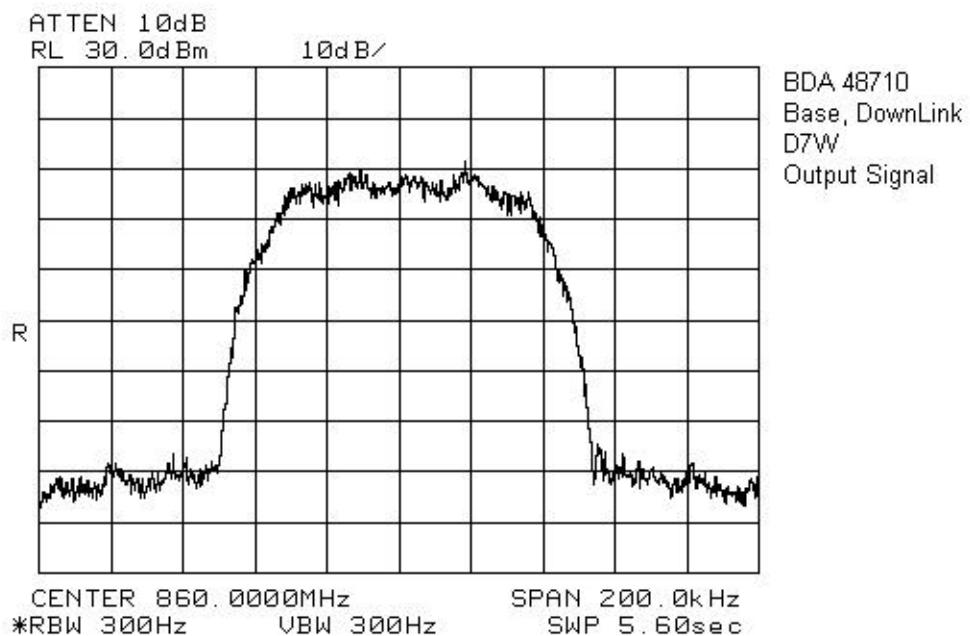
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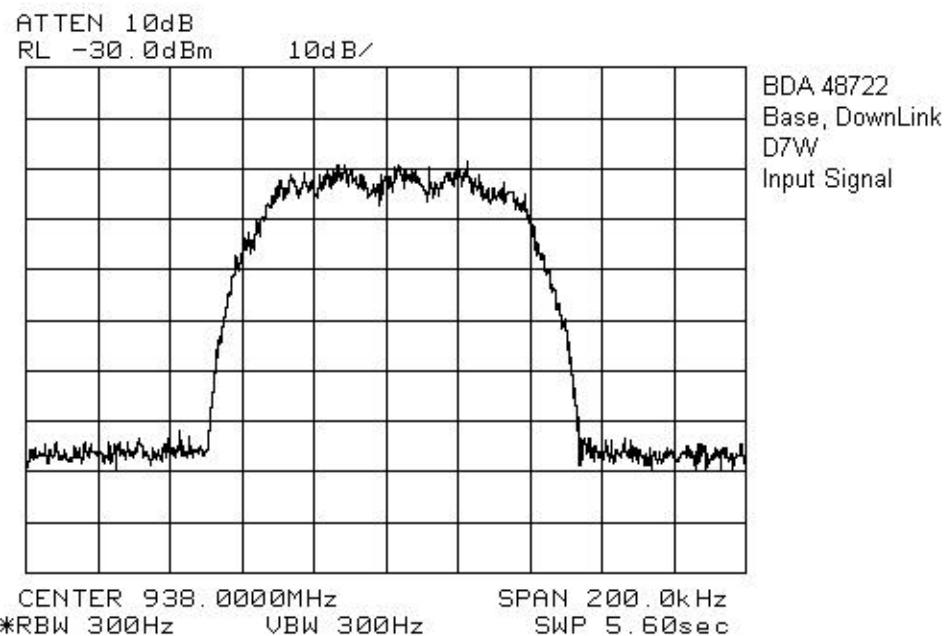
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