



Wi-LAN Inc.
300-801 Manning Rd. NE
Calgary, Alberta, T2E 8J5
Phone: (403) 273-9133
Fax: (403) 273-5100

Wi-LAN inc. Supplemental Test report: #300 - 24

For Wi-LAN inc. W-OFDM 300-24

**In Accordance With: FCC Part 15, Subpart C
Direct Sequence Transmitters 2400-2483.5 MHz**

Tested By: Wi-LAN inc.

Date: May 25, 2001

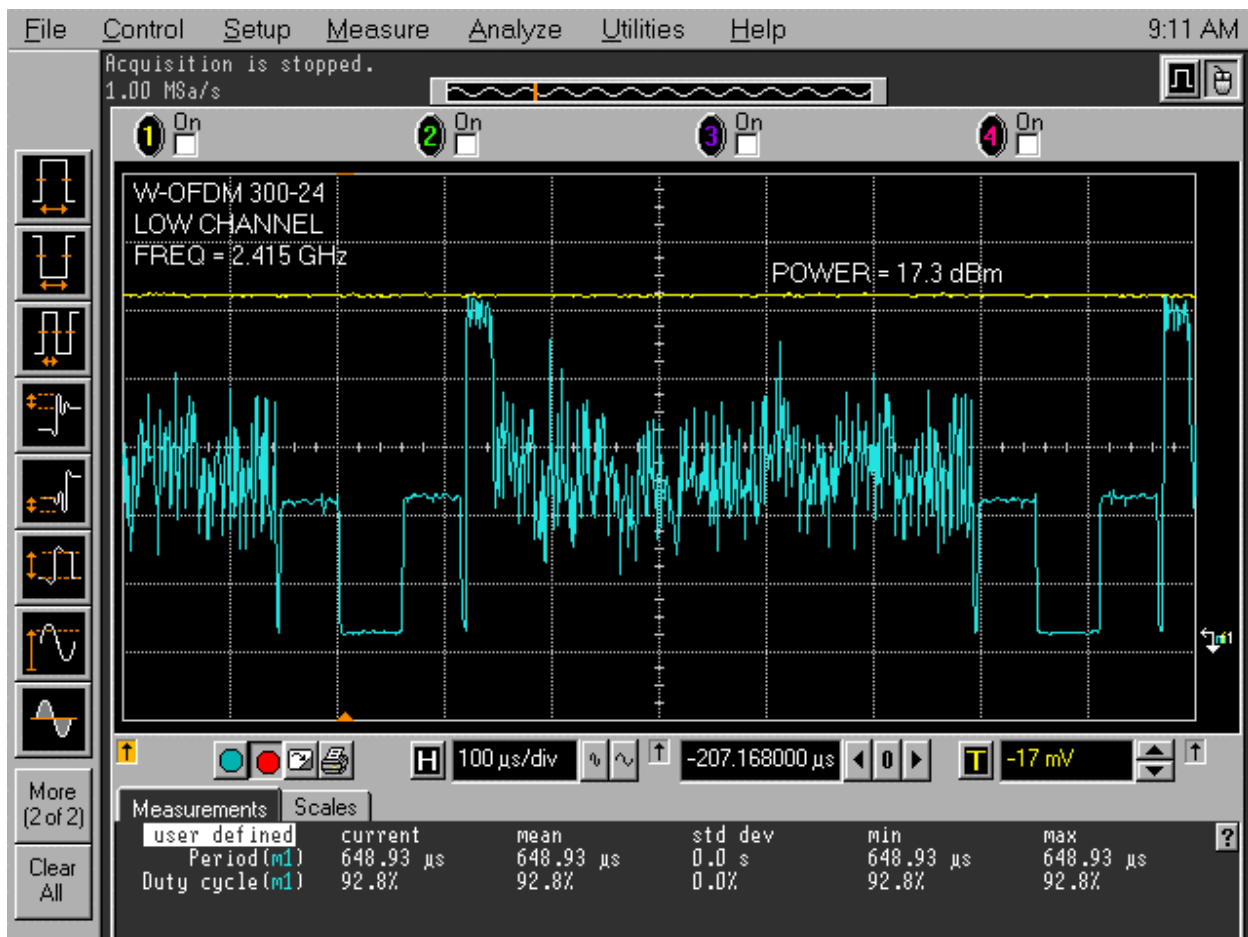
Peak Output Power

Results:

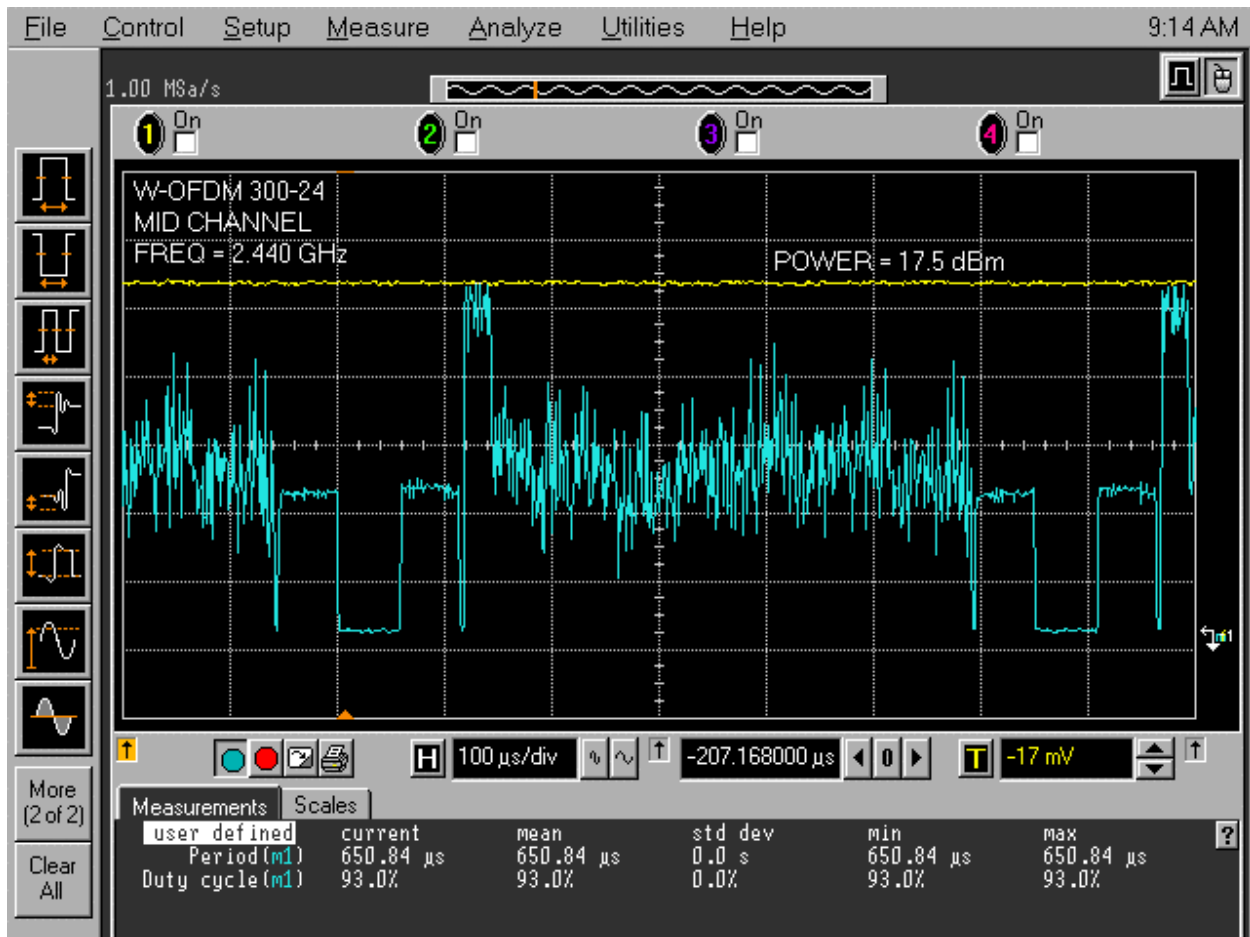
Channel	Power (dBm)	Power (W)	Limit (W)
Low	17.3	0.053	0.1
Mid	17.5	0.056	0.1
High	18.45	0.070	0.1

Data:

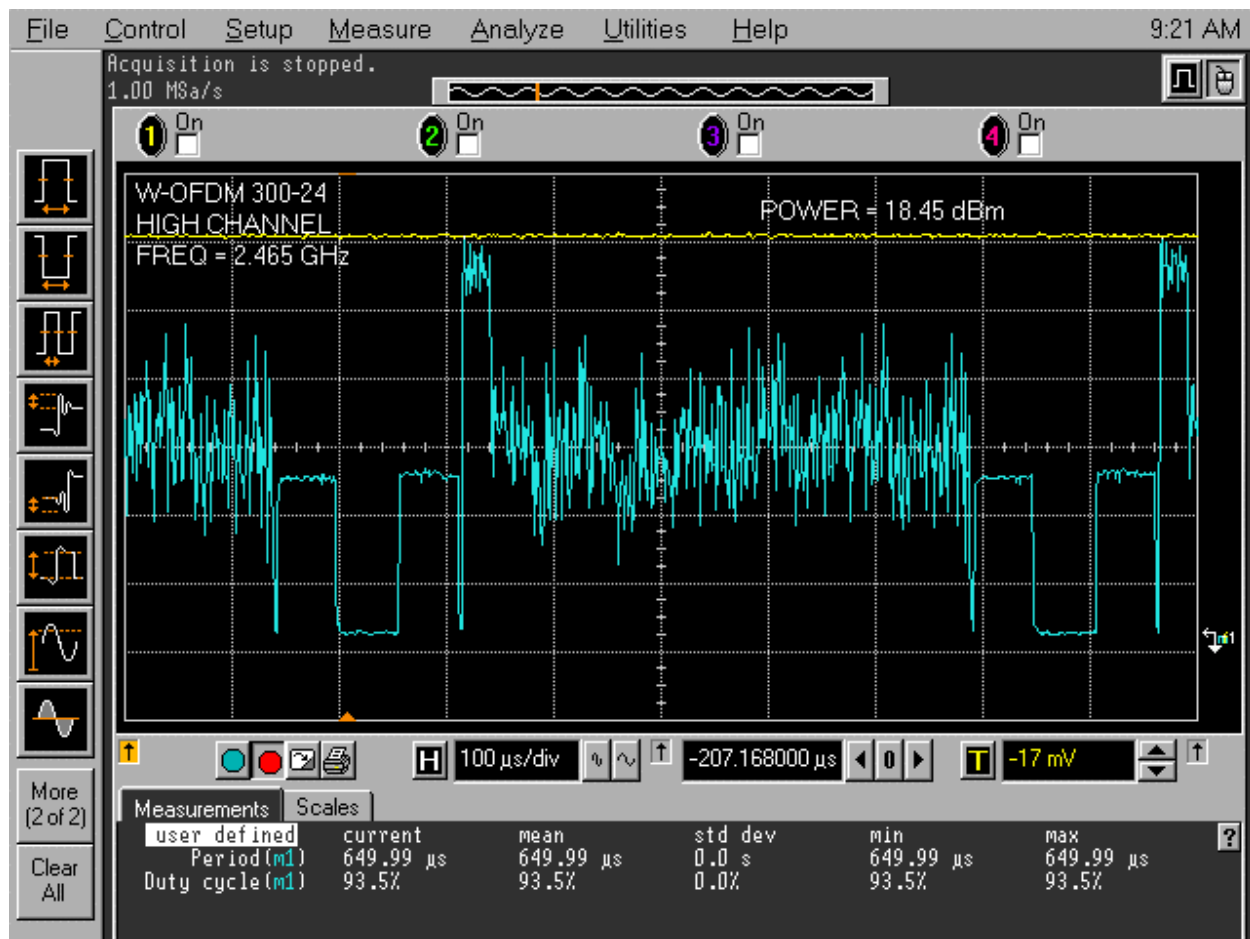
Low Channel



Mid Channel



High Channel



Method:

- The output of the transmitter shall be coupled to a peak diode detector
- The output of the detector shall be connected to an oscilloscope
- The detector and the oscilloscope shall be capable of reproducing the peaks and the duty cycle of the transmitter output signal.
- The peak level of this signal shall be recorded
- The transmitter shall be replaced by a signal generator. The output frequency of the signal shall be made equal to the centre of the frequency range occupied by the transmitter
- The signal generator shall be unmodulated. The output power of the signal generator shall be raised to a level such that the deviation of the Y-trace of the oscilloscope reaches the same level as the transmitter

- The output power level (in dBm) of the signal generator shall be determined using a wideband, calibrated RF power meter with a thermocouple detector or an equivalent thereof
- This level shall be recorded as the peak output power.

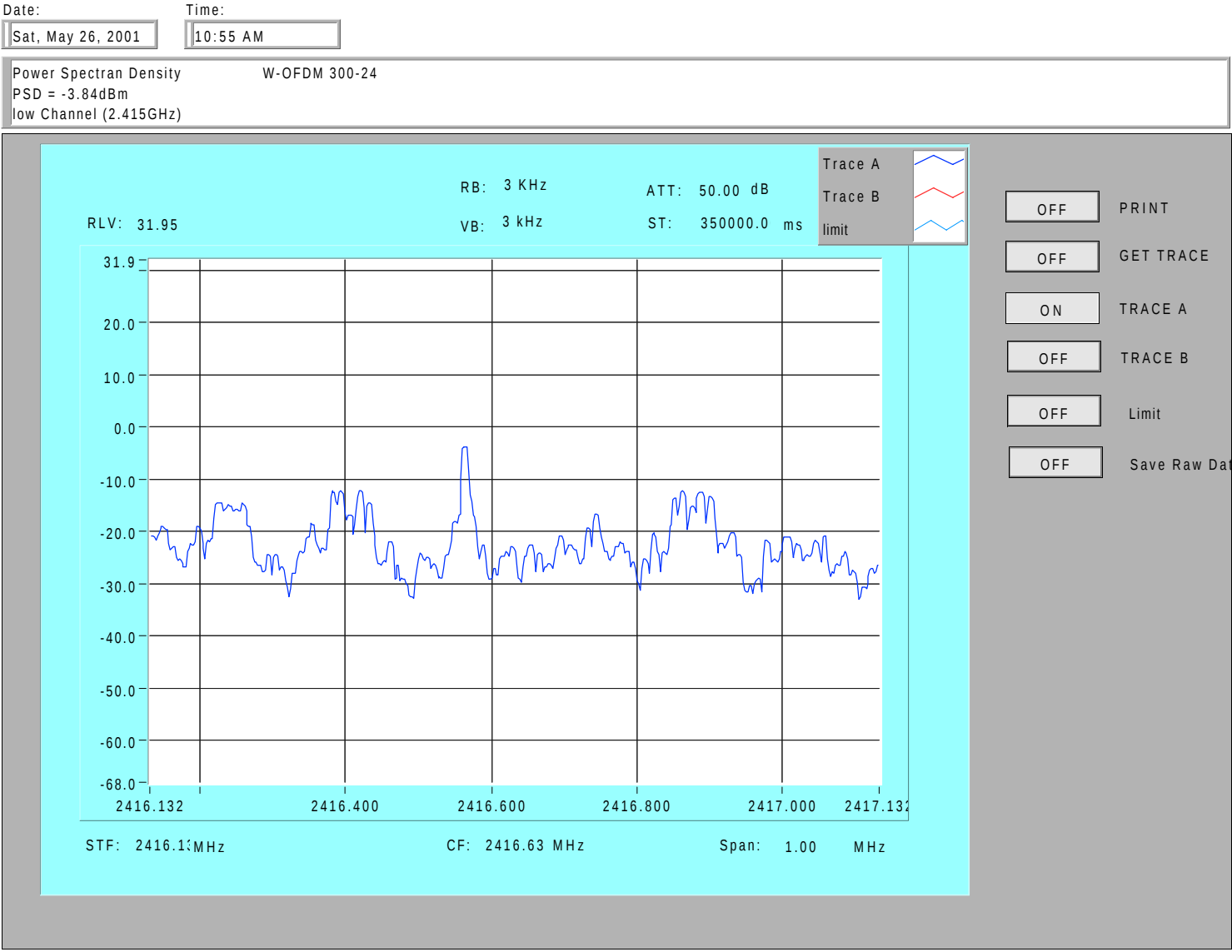
Power Spectral Density

Results:

Channel	Power (dBm)	Limit (dBm)
Low	-3.84	8.0
Mid	-3.08	8.0
High	-2.83	8.0

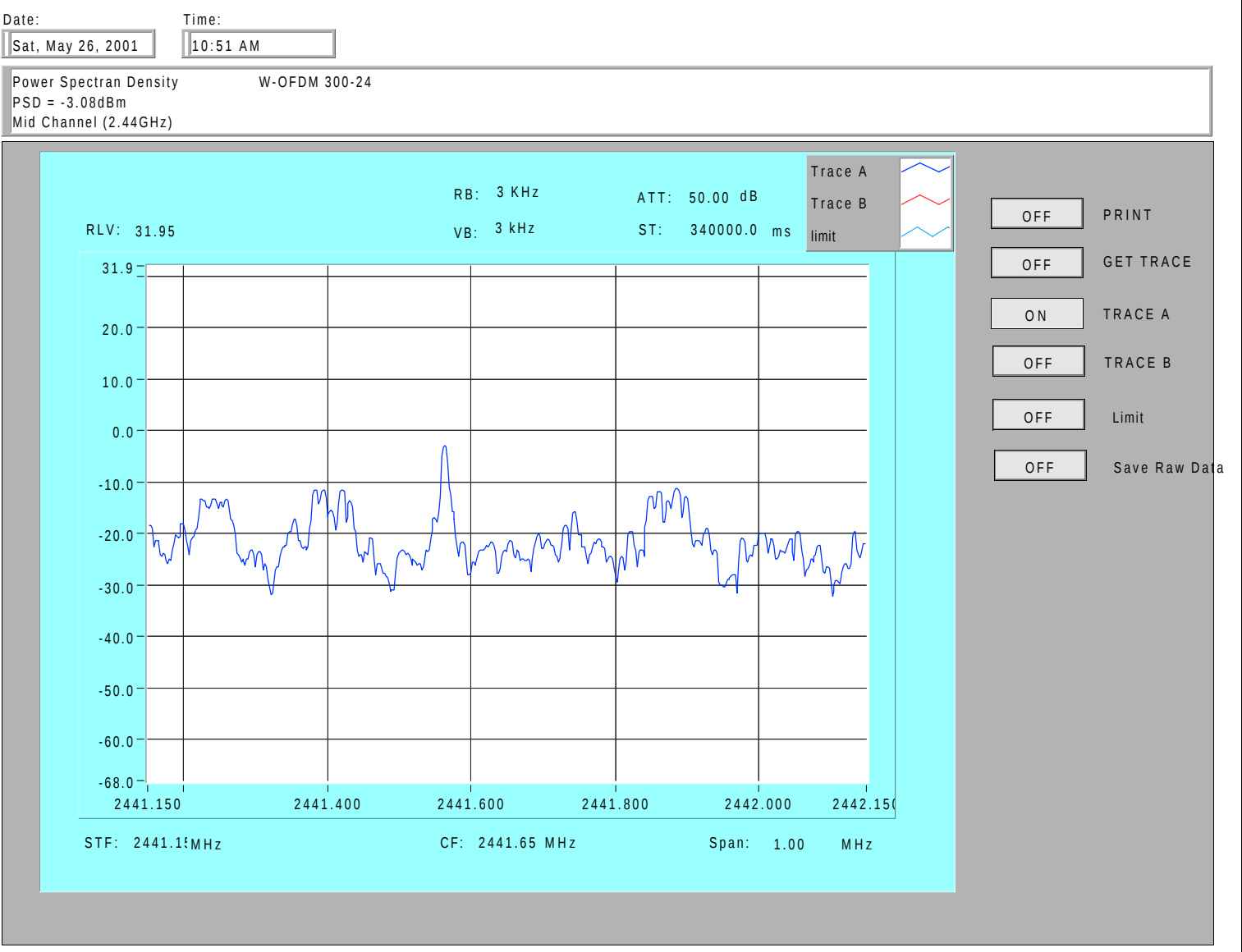


get SA trace.vi
\\WILAN CORP1\Dept Info\Technology\Technology SystemsInt\pub\LIBS\Mask\get SA trace.vi
Last modified on 5/26/01 at 10:50 AM
Printed on 5/26/01 at 10:56 AM

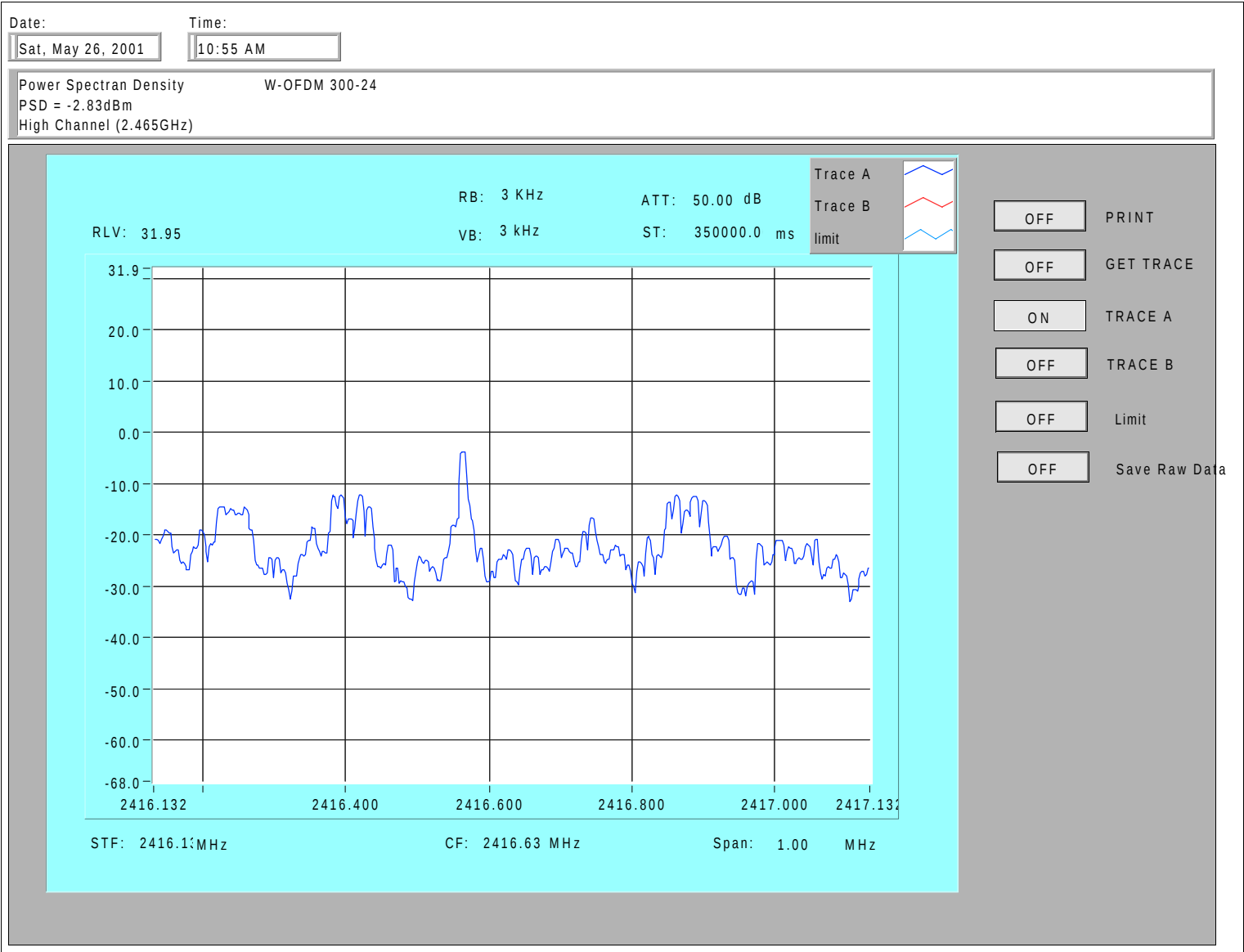




get SA trace.vi
\\WILAN CORP1\Dept Info\Technology\Technology SystemsInt\pub\LIBS\Mask\get SA trace.vi
Last modified on 5/26/01 at 10:50 AM
Printed on 5/26/01 at 10:52 AM



get SA trace.vi
\\WILAN CORP1\Dept Info\Technology\Technology SystemsInt\pub\LIBS\Mask\get SA trace.vi
Last modified on 5/26/01 at 10:50 AM
Printed on 5/26/01 at 10:58 AM



Test Instrumentation:

Make	Model	Serial	Cal Due
HP oscilloscope	Infinium	574731	11/17/01
HP Signal Generator	8341B	2819A0293	10/04/01
HP Crystal Detector	423B	1822A16480	NA
Anritsu Spectrum analyzer	MS2668C	W109	11/02/01
Agilent Power meter	E4418B	GB39512963	02/21/02
Agilent Power Head	E9300A	VS39211207	02/21/02