

S E R V I C E N O T E

SUPERSEDES: None

81640A/81680A Tunable Laser Source Modules**Serial Numbers:**

81640A Serialnumbers DE39400100 - DE39400530

81680A Serialnumbers DE39000100 - DE39000550

manufactured before May,31,2000

81640A/81680A Power Repeatability in Fast Sweep Mode**To Be Performed By:**

Agilent Technologies-Qualified Personnel at dedicated service centers in
 Boeblingen, GER
 Rockaway, US
 Hachioji, JPN

Parts Required: Template and foam (available from the division)**Situation:**

In general, the output power of the 816xx full size tunable laser source modules gets continuously monitored and adjusted in order to achieve a constant output power level. To enable the fast sweep mode where the wavelength is tuned by 40nm per second, the feedback system of the power monitoring gets disabled. Due to a second, unwanted cavity for the external cavity laser the overall output power is a result of the superposition of the two different beams. This leads to unwanted power instabilities and non-repeatabilities.

Continued

DATE: July 2000

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	<input checked="" type="checkbox"/> PERFORMANCE ENHANCEMENT <input type="checkbox"/> SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	AVAILABLE UNTIL: May 2003
AUTHOR: VE	ENTITY: OCMD	ADDITIONAL INFORMATION:



Solution / Action:

During the fast sweep mode of the tunable laser source, the specification for power flatness, stability and repeatability do not apply. Nevertheless, a solution is given to customers whose application require these parameters being within specification valid in non-sweep mode, even at fast sweep mode with 40nm per second: Elimination of the second cavity by placing a black foam on an appropriate place in the interior of the TLS chassis.