



Synrad Laser Service Data Sheet

Customer

RA #

Royal Cabinet Company

189892

Model#

Laser S/N

Chassis#

FST100KWC-5M

t100019070012

T60-2650

Tech

Date Received

Date Completed

Victor Santillan-Ruiz

22-Aug-17

27-Sep-17

Customer's Complaint Wont fire during test, has been off line about 7 years

Incoming Inspection:

Incoming Serial Numbers

Tube 1 Serial #

RF 1 Serial #

Model Number

Tube 2 Serial #

RF 2 Serial #

G44126

G-1K-328

FST100KWC-5M

Complaint verified

Power

Mode

DB9/15 Test

Optic Condition

Laser Condition

Yes:		No		CW		Pulse		Pass		Fail		N/A		Clean		Dirty		Other		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																	

Comments

Service Data

Outgoing Serial Numbers

Tube 1 Serial #

RF 1 Serial #

Tube 2 Serial #

RF 2 Serial #

NZ0940

G-1K-328

Service Comments

Verified complaint. Tube was reprocessed , and realigned. Laser was tested for power stability and all specs together with RF Driver.

Test Data

Power (Watts)

Cooling

Min	Max	Avg	Peak
119	131	125	

H2O @ 1.6 GPM

Tickle used: 1.0µs @ 5Khz; Temp Cut off is set at 60°C

Units meets or exceeds original manufacturer specifications.

CDRH Safety Features:

Key Switch	Aperture Label	Shutter	5 Second Delay	Remote Interlink
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Indicator Lights	Avoid Exposure Label	Manual Reset	Danger Label	ID / Cert Label
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Warranty Information: Units serviced by Synrad or Authorized Service Centers are warranted against defects in parts and workmanship for 6 months for the service provided. Failure due to customer misuse or environmental factors is not covered by warranty. Please contact the factory for specific warranty information.

Laser Final Test Report

Test Date:	Sep 29 2017 12:45 PM	Part Number:	FST100KWC-5M
Test Technician:	VICTOR SANTILLAN-RUIZ	Tube S/N:	NZ0940
Serial Number:	T100019070012	Chassis S/N:	T60-2650

Test Parameters and Results: Passed

Parameter	Specification	Measured	Units
Min Power	100.00	114.00	W
Max Power	--	124.00	W
Average Power Output ¹	>114.00	118.52	W
Power Stability ²	≤ ±7.00	±4.20	%
Peak Power ³	>124.00	144.98	W
Rise Time ⁴	≤75	38	μs
Fall Time ⁴	≤75	39	μs
I/O Test	--	Passed	--

Serial Number



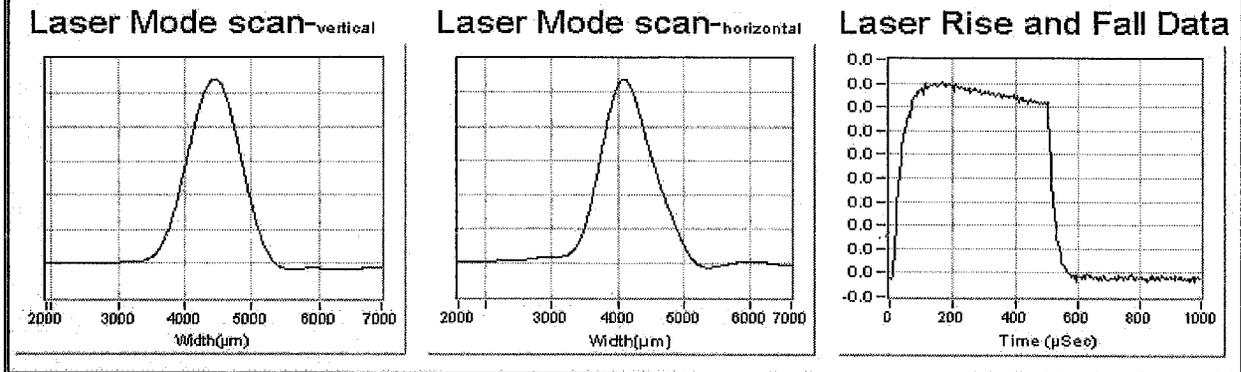
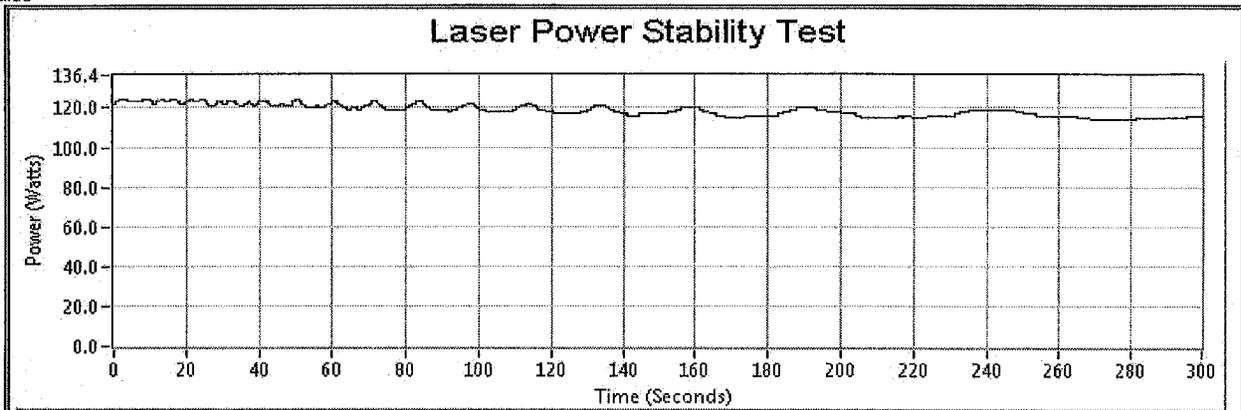
T 1 0 0 0 1 9 0 7 0 0 1 2

Average Power



1 1 8 . 5 2

¹ Average Power calculated over a 5minute period, after a 10 second⁶ warm up period.
² ± (P_{MAX} - P_{MIN}) / (P_{MAX} + P_{MIN}) after 10 seconds⁶ from cold start. Unit tested under H2O 0.80 GPM.
³ Measured with a 100Hz-10% positive duty cycle signal.
⁴ Rise/Fall measured at 1000Hz at 50% duty cycle.
 Unit tested at 30V on Bench 2.
⁶ Typical Value



CDRH Safety Features:

<input checked="" type="checkbox"/> Key Switch	<input checked="" type="checkbox"/> 5s Delay	<input checked="" type="checkbox"/> Shutter	<input checked="" type="checkbox"/> Indicators	<input checked="" type="checkbox"/> Remote Interlock	<input checked="" type="checkbox"/> Manual Reset
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Labels:

<input checked="" type="checkbox"/> Aperture	<input type="checkbox"/> Danger	<input checked="" type="checkbox"/> ID Numbers	<input checked="" type="checkbox"/> Caution	<input checked="" type="checkbox"/> Avoid Exposure	<input checked="" type="checkbox"/> CE Compliance
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Comments:

