



Agilent Technologies

5890 Oven Heating Problems

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Oven Temperature Troubleshooting

Problem	Probable Cause	Corrective Action
1. Oven does not heat. "WARN: OVEN SHUTOFF" message appears on display.	a. Faulty fuse F4 or F5 on main PCB.	<ol style="list-style-type: none"> 1. Check both fuses. 2. If either fuse is bad, replace. If neither fuse is bad, go to probable cause b.
	b. Oven heater is open.	<ol style="list-style-type: none"> 1. With instrument power off, check resistance of oven heater. 2. If it exhibits a dead or near short, replace the oven heater element. 3. If heater element is ok, refer to probable cause c.
	c. Faulty power supply PCB.	<ol style="list-style-type: none"> 1. Replace power supply PCB. 2. If problem persists, reinstall original power supply PCB and go to probable cause d.
	d. Faulty main PCB PCB.	<ol style="list-style-type: none"> 1. Check both fuses.
2. Using the same sample and conditions on this and other chromatographs, the retention times of this GC differ.	a. Oven needs calibration.	<ol style="list-style-type: none"> 1. Calibrate oven per procedure in this section..
3. Oven does not control.	a. Faulty main PCB.	<ol style="list-style-type: none"> 1. Replace main PCB.
4. Oven temperature runs away.	a. Oven heater partially grounded.	<ol style="list-style-type: none"> 1. Ensure that the oven heater is not coming in contact with the oven shell or other nearby components. 2. If problem persists, go to probable cause b.
	b. Faulty main PCB	<ol style="list-style-type: none"> 1. Replace main PCB.