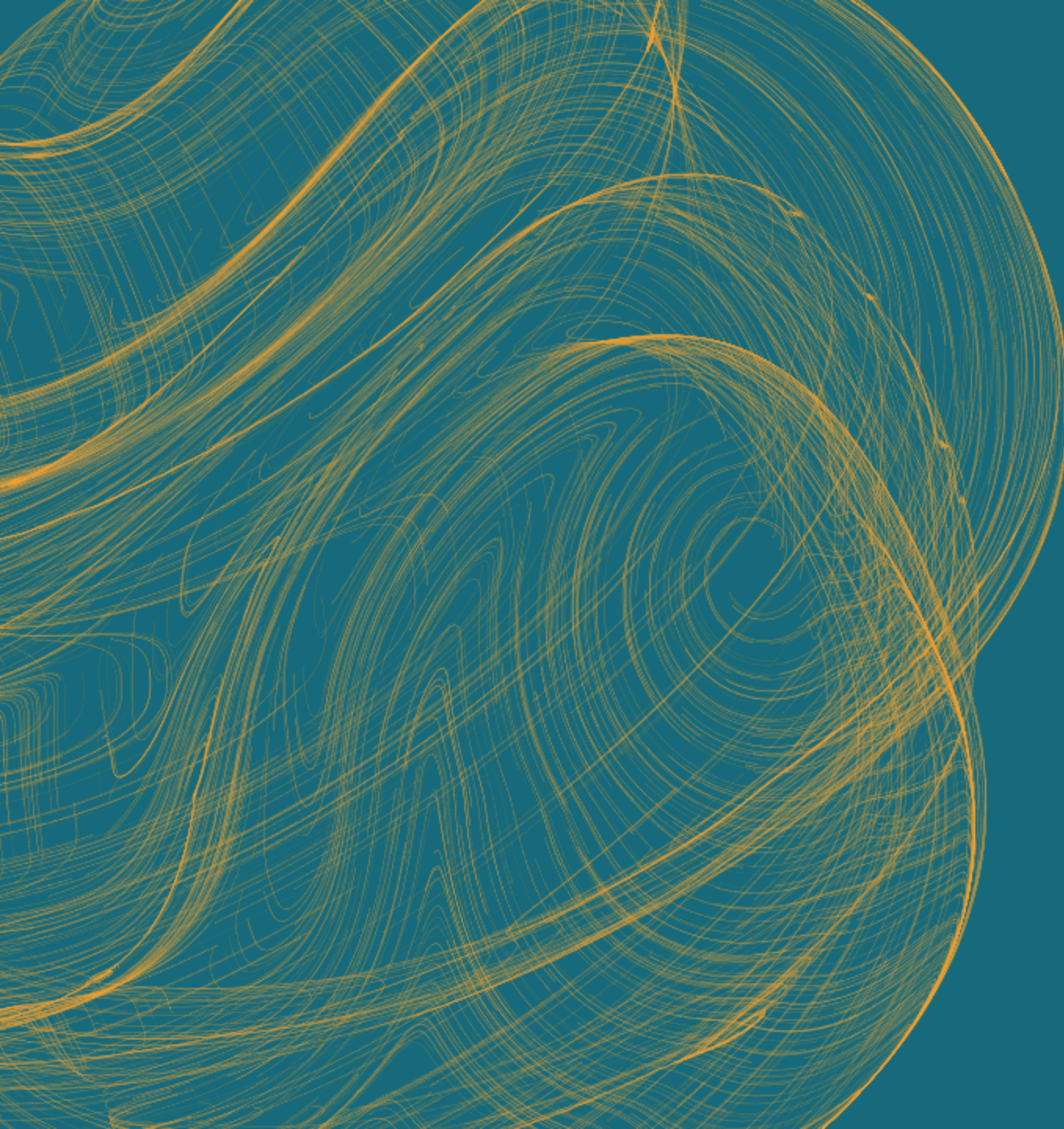


A large, abstract graphic on the left side of the slide consists of numerous overlapping, scribbled orange lines of varying thicknesses, creating a sense of motion and complexity. The background is a solid teal color.

ASK

AVATR failure parts analysis

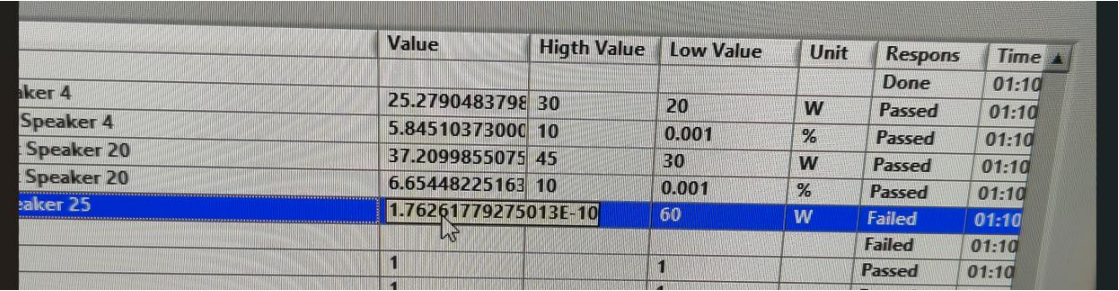
www.askgroup.global

a JVCCKENWOOD Company

Part 1# Problem description for EOL station

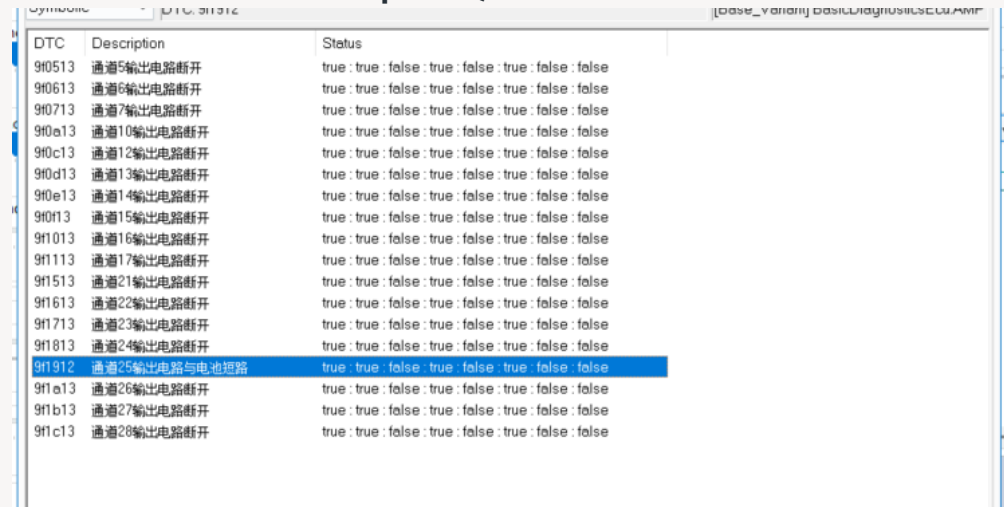
AVATR parts failed in EOL station, the failure item as below, Check spk 25 power output issue.

The ASK Series Nr: 34118, supplier: ITC



	Value	High Value	Low Value	Unit	Respons	Time
Speaker 4	25.2790483798	30	20	W	Passed	01:10
Speaker 4	5.84510373000	10	0.001	%	Passed	01:10
Speaker 20	37.2099855075	45	30	W	Passed	01:10
Speaker 20	6.65448225163	10	0.001	%	Passed	01:10
Speaker 25	1.76261779275013E-10	60		W	Failed	01:10
	1		1		Failed	01:10
	1				Passed	01:10

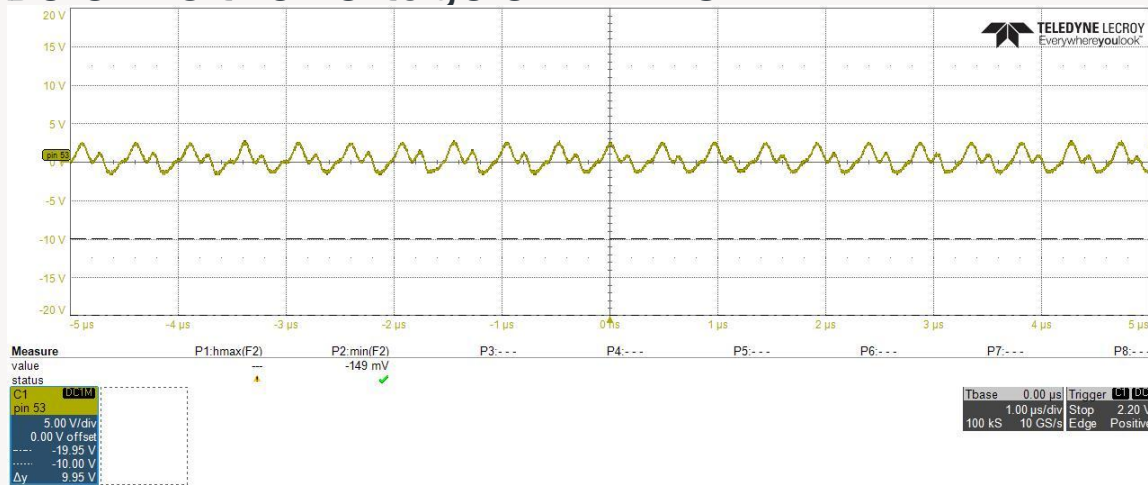
Offline test and confirmed the part failed in self test with same result as EOL test. Read DTC from part, the result is channel 25# output short to battery.



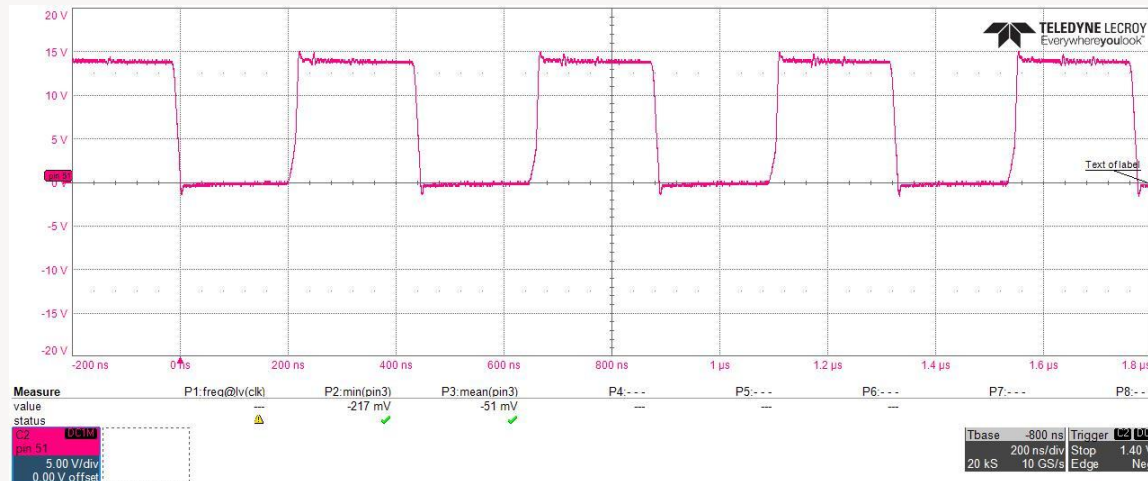
DTC	Description	Status
9H0513	通道5输出电路断开	true : true : false : true : false : true : false : false
9H0613	通道6输出电路断开	true : true : false : true : false : true : false : false
9H0713	通道7输出电路断开	true : true : false : true : false : true : false : false
9H0813	通道8输出电路断开	true : true : false : true : false : true : false : false
9H0913	通道9输出电路断开	true : true : false : true : false : true : false : false
9H1013	通道10输出电路断开	true : true : false : true : false : true : false : false
9H1113	通道11输出电路断开	true : true : false : true : false : true : false : false
9H1213	通道12输出电路断开	true : true : false : true : false : true : false : false
9H1313	通道13输出电路断开	true : true : false : true : false : true : false : false
9H1413	通道14输出电路断开	true : true : false : true : false : true : false : false
9H1513	通道15输出电路断开	true : true : false : true : false : true : false : false
9H1613	通道16输出电路断开	true : true : false : true : false : true : false : false
9H1713	通道17输出电路断开	true : true : false : true : false : true : false : false
9H1813	通道18输出电路断开	true : true : false : true : false : true : false : false
9H1913	通道19输出电路断开	true : true : false : true : false : true : false : false
9H2013	通道20输出电路断开	true : true : false : true : false : true : false : false
9H2113	通道21输出电路断开	true : true : false : true : false : true : false : false
9H2213	通道22输出电路断开	true : true : false : true : false : true : false : false
9H2313	通道23输出电路断开	true : true : false : true : false : true : false : false
9H2413	通道24输出电路断开	true : true : false : true : false : true : false : false
9H2513	通道25输出电路与电池短路	true : true : false : true : false : true : false : false
9H2613	通道26输出电路断开	true : true : false : true : false : true : false : false
9H2713	通道27输出电路断开	true : true : false : true : false : true : false : false
9H2813	通道28输出电路断开	true : true : false : true : false : true : false : false

Analysis process

1, Measurement the voltage of power IC, the Spk25 connect PIN40
Below is the voltage of PIN 40

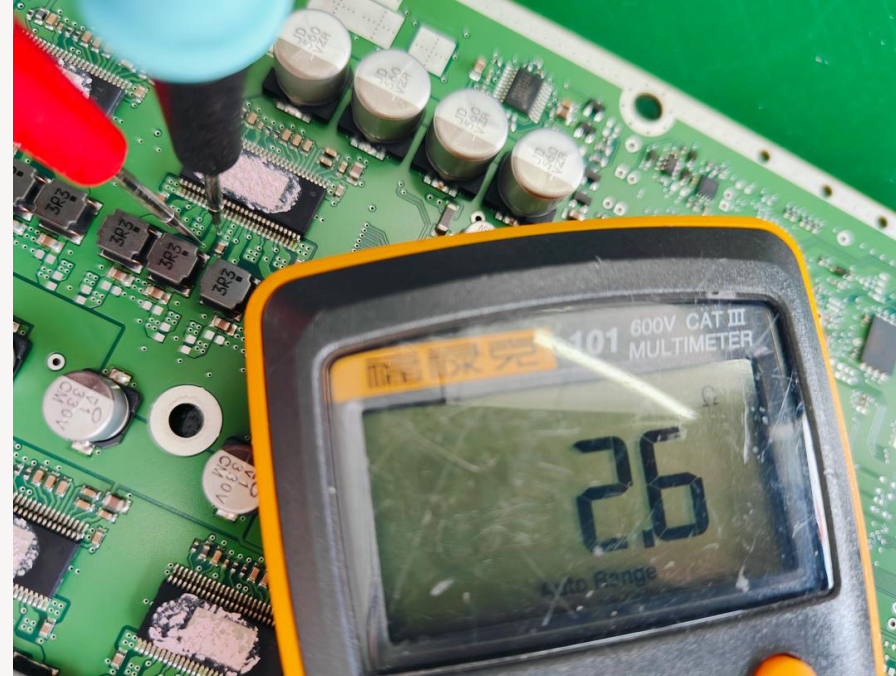
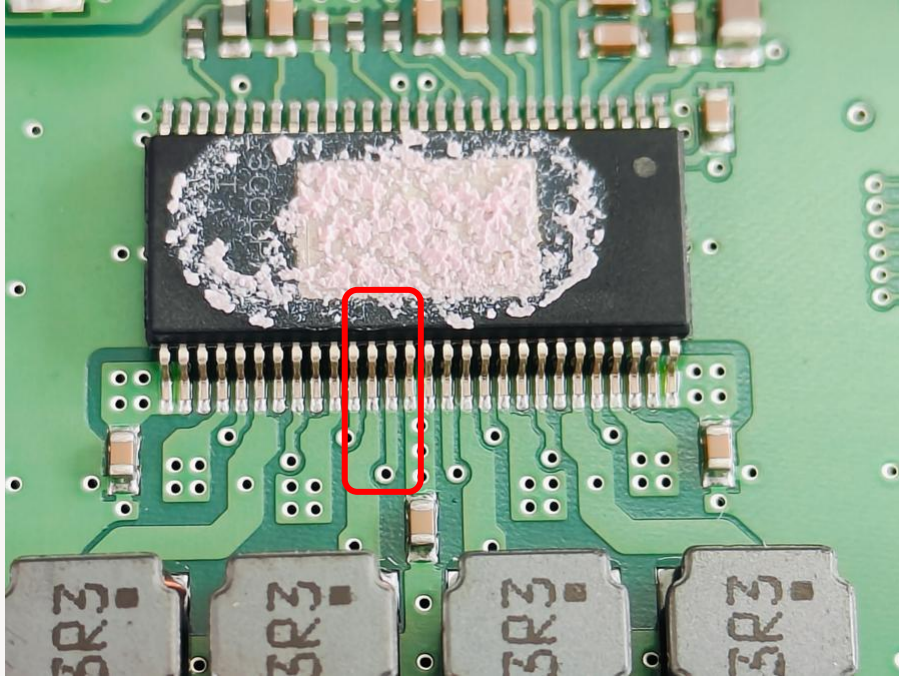


2, Measured the OK part with the same condition below is the voltage of PIN 40



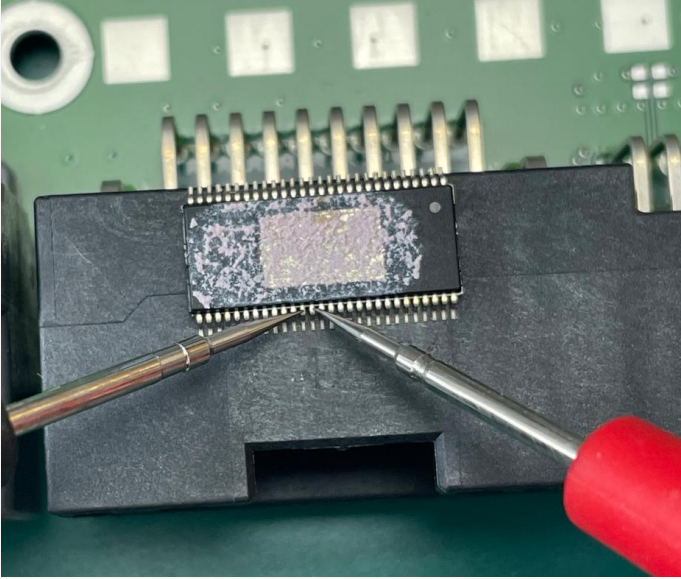
Analysis process

3, Check the soldering of POWER IC, no abnormal found. Measurement the PIN 40 short to PIN41.



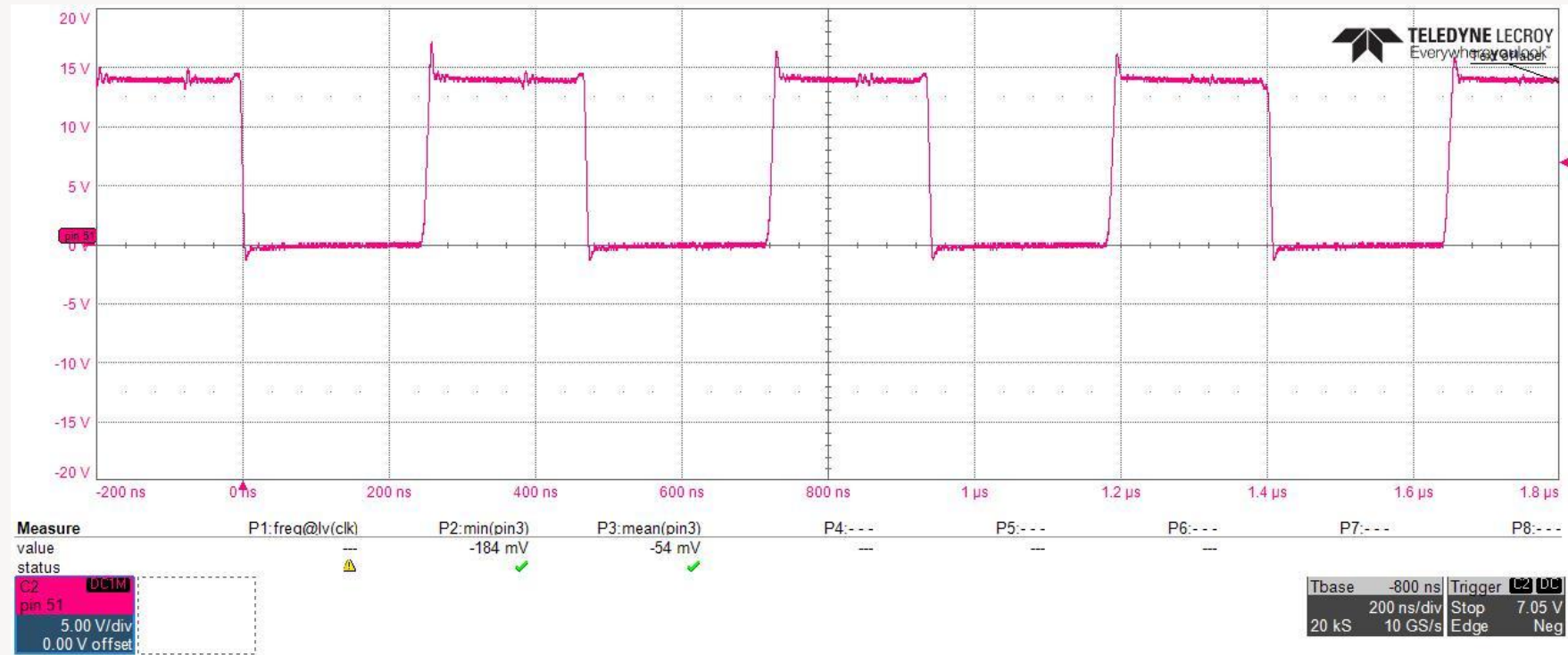
Analysis process

4, dissoldering the power IC and measurement the PIN 40 short to PIN41.



Analysis process

5, Resoldering OK power IC and the voltage of PIN 40 with OK result



Conclusion:
The PIN 40 short PIN41 caused part have the function failure.