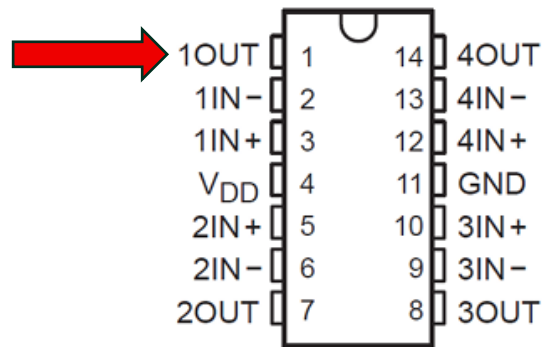


Engineering Report

Customer: HBK
Drawing: 7.BR.BCA.TD1
Description: The output voltage of the TLC274C is higher than normal.
Work order: W733164
Date: Mar 2, 2026
Issued by: Pitthapol P.
Title: ZE0845 failed test and signal unstable.

descriptions:

During FCT test, we found signal output unstable on digital oscilloscope. After checking the component on PCBA, We found the problem with TLC274C Pin 1OUT output voltage is higher than normal. Input non defect.



Picture 1: Defect voltage higher than in pin 1 (1OUT).

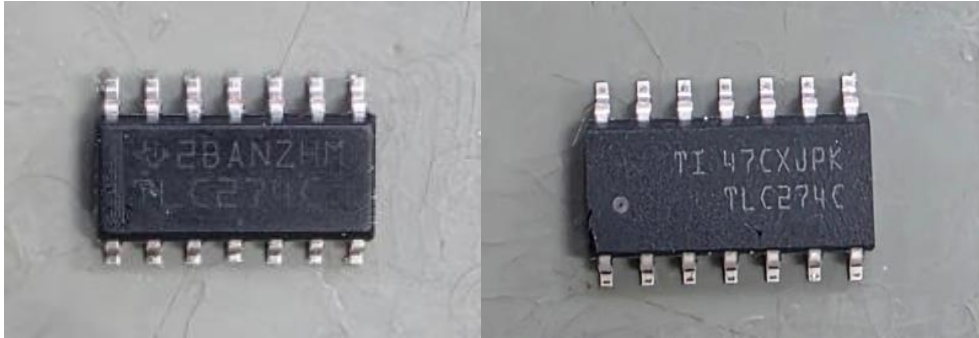
We tried to changed new TLC274 and measuement Pin 1 after start fucntional. Found voltage result from PCBA 8 good units and 8 fail units with TLC274 2 datecode as table below.

Result from TLC274C	Voltage output pin 1 Date code 101000000076609	Voltage output pin 1 Date code 1010000001170243
1	5.435V	6.248V
2	5.437V	6.242V
3	5.431V	6.245V
4	5.431V	6.243V
5	5.436V	6.247V
6	5.435V	6.250V
7	5.435V	6.249V
8	5.431V	6.242V

Table 1: Voltage result pin1 from 2 date code of TLC274.

Engineering Report

From table1, the result show that date code **101000001170243** output voltage higher more than **101000000076609** about 0.8V.



Picture 2: Datecode pictures of TLC274C Passed the test date code **101000000076609** in the left side and Failed the test date code **101000001170243** in the right side.



Picture 2: X-Ray pictures of TLC274C Passed the test date code **101000000076609** in the left side and Failed the test date code **101000001170243** in the right side.

Casue:

Defect TLC274C P/N: 063430008R batch number: **101000001170243**.

Action:

Feedback to supplier.