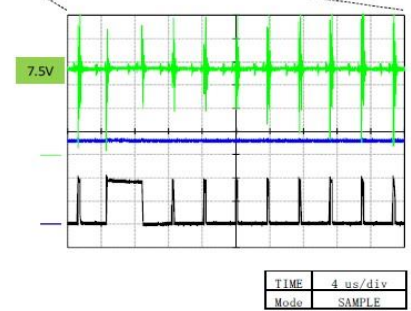
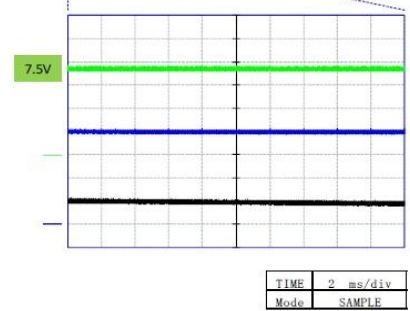
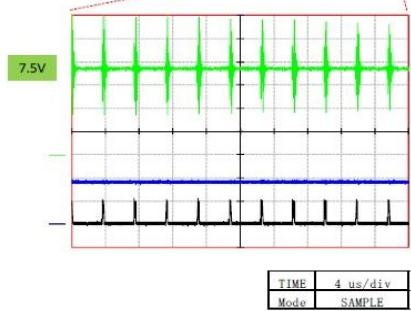
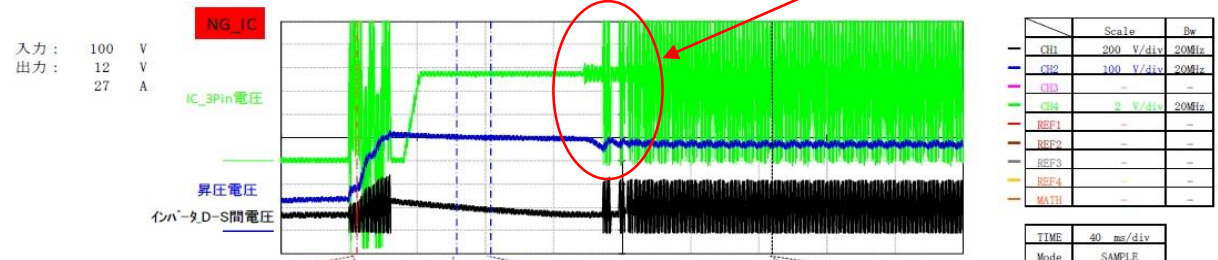


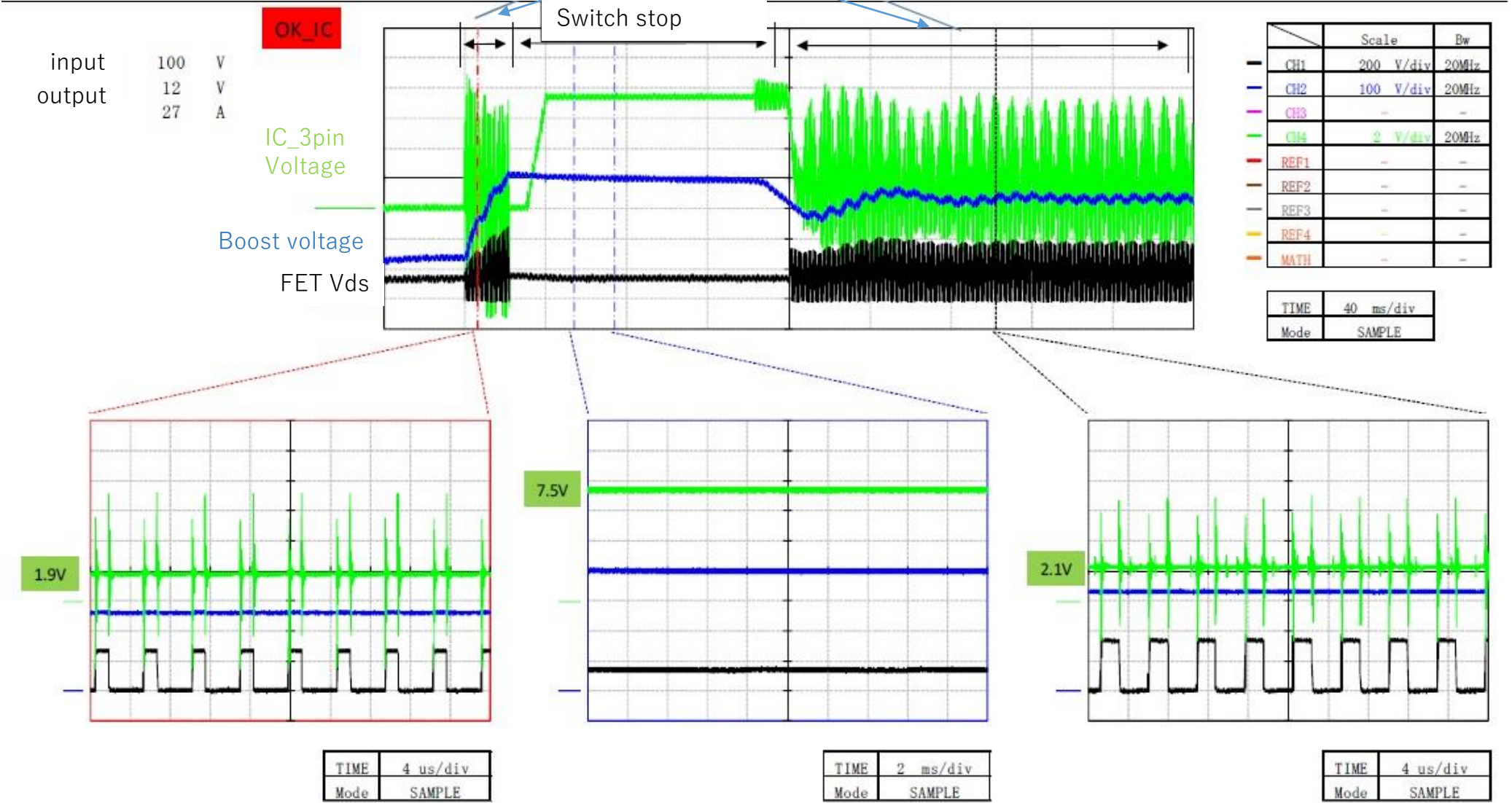
Question.

For OK_IC, IC_3 PIN has dropped from 7.5 V to 2.1 V.
For NG_IC, IC_3 PIN is maintained at 7.5 V.
What is the reason for this?



Expanded waveform material

Switch operation



input 100 V
output 12 V 27 A

OK_IC

IC_3pin Voltage

Boost voltage

FET Vds

Switch stop

	Scale	Bw
CH1	200 V/div	20MHz
CH2	100 V/div	20MHz
CH3	-	-
CH4	2 V/div	20MHz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

TIME	40 ms/div
Mode	SAMPLE

1.9V

7.5V

2.1V

TIME	4 us/div
Mode	SAMPLE

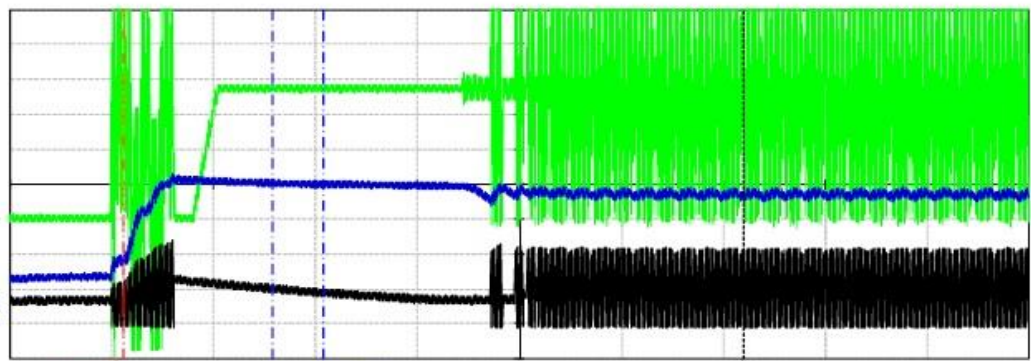
TIME	2 ms/div
Mode	SAMPLE

TIME	4 us/div
Mode	SAMPLE

入力: 100 V
出力: 12 V
27 A

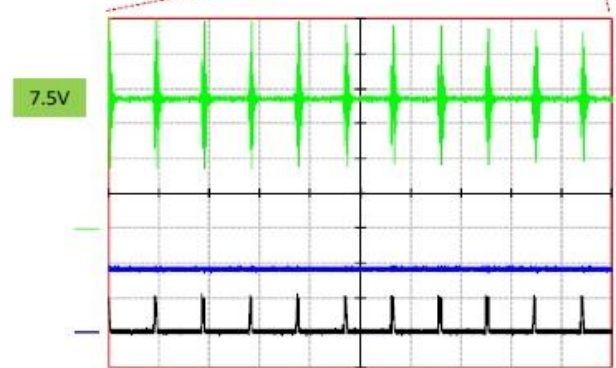
NG_IC

IC_3Pin電圧
昇圧電圧
インバータD-S間電圧

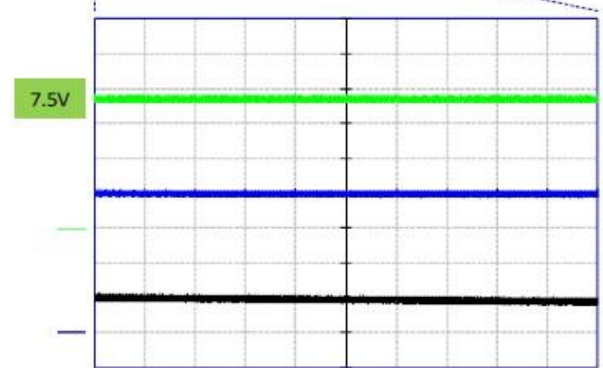


	Scale	Bw
CH1	200 V/div	20MHz
CH2	100 V/div	20MHz
CH3	-	-
CH4	2 V/div	20MHz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

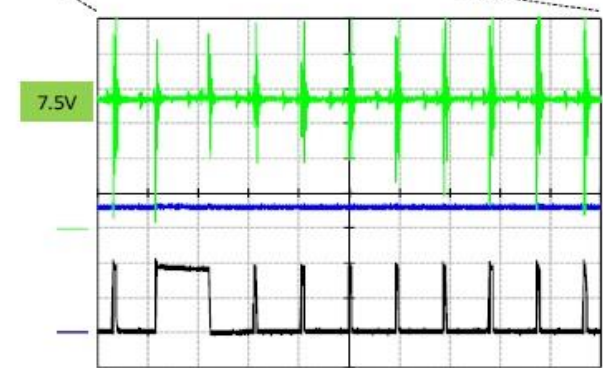
TIME	40 ms/div
Mode	SAMPLE



TIME	4 us/div
Mode	SAMPLE



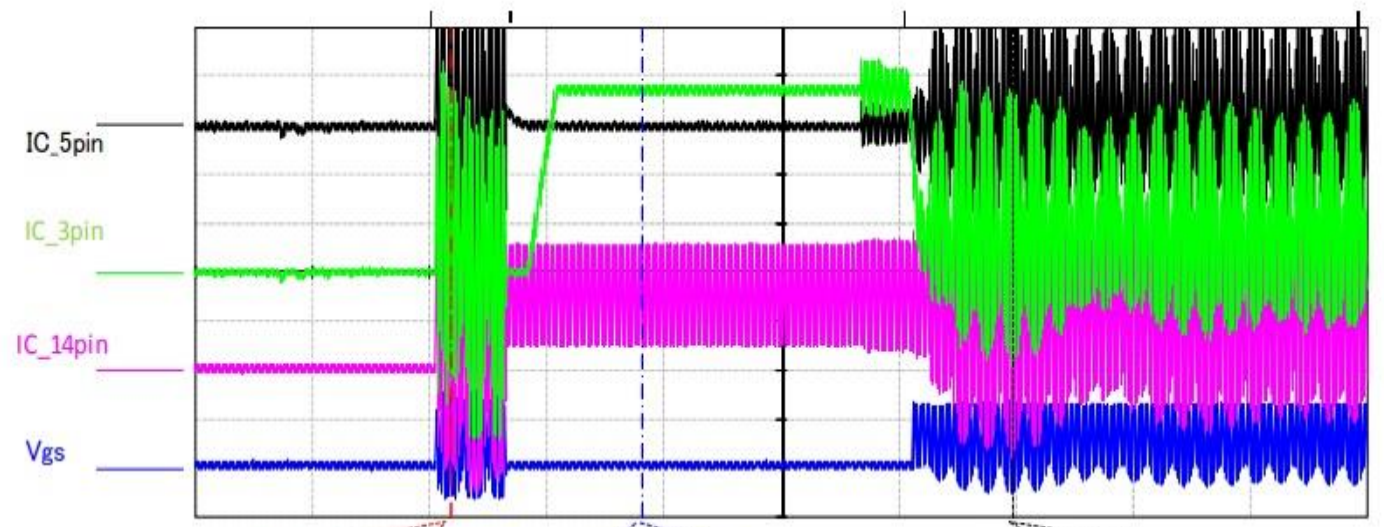
TIME	2 ms/div
Mode	SAMPLE



TIME	4 us/div
Mode	SAMPLE

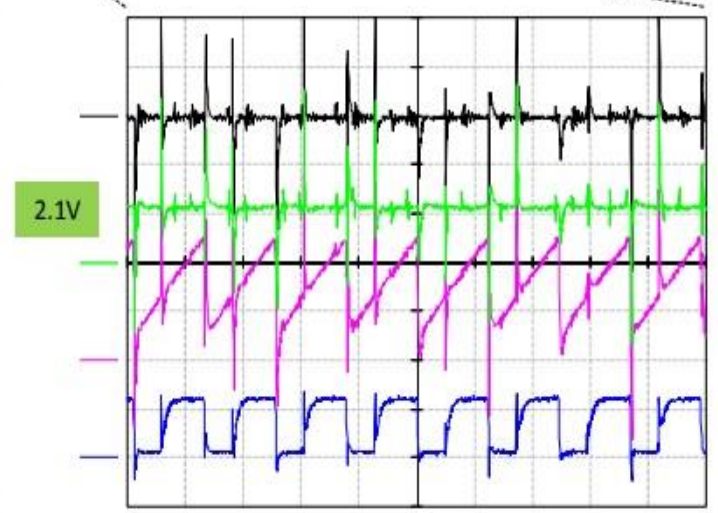
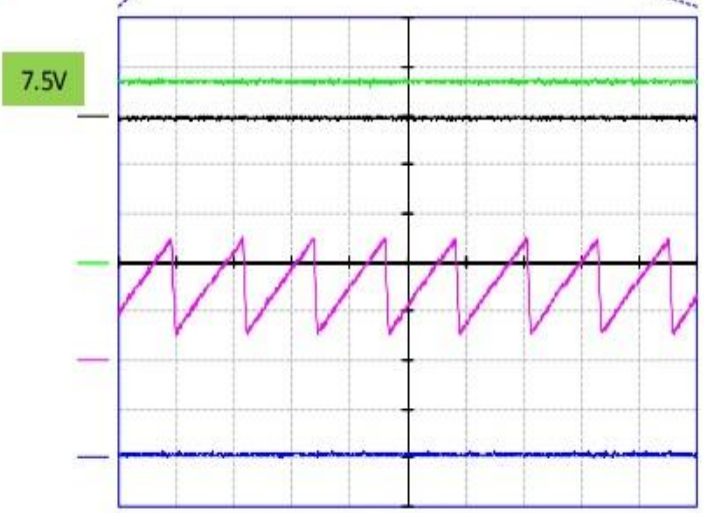
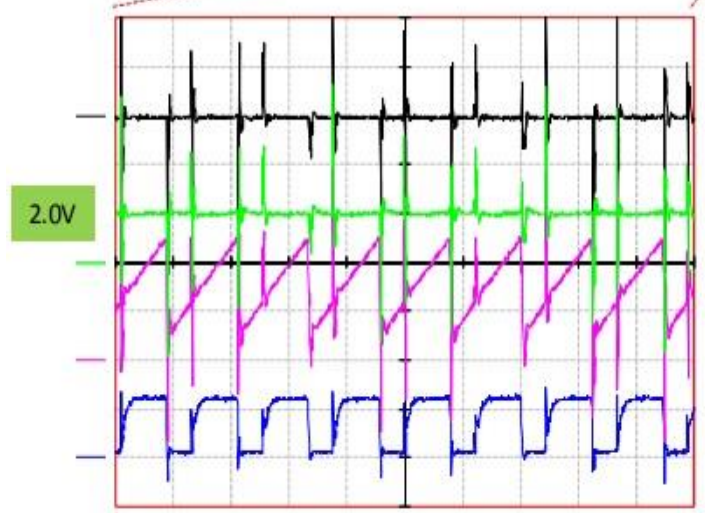
input 100 V
 output 12 V
 27 A

OK_IC



	Scale	Bw
CH1	2 V/div	20MHz
CH2	10 V/div	20MHz
CH3	2 V/div	20MHz
CH4	2 V/div	20MHz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

TIME	40 ms/div
Mode	SAMPLE

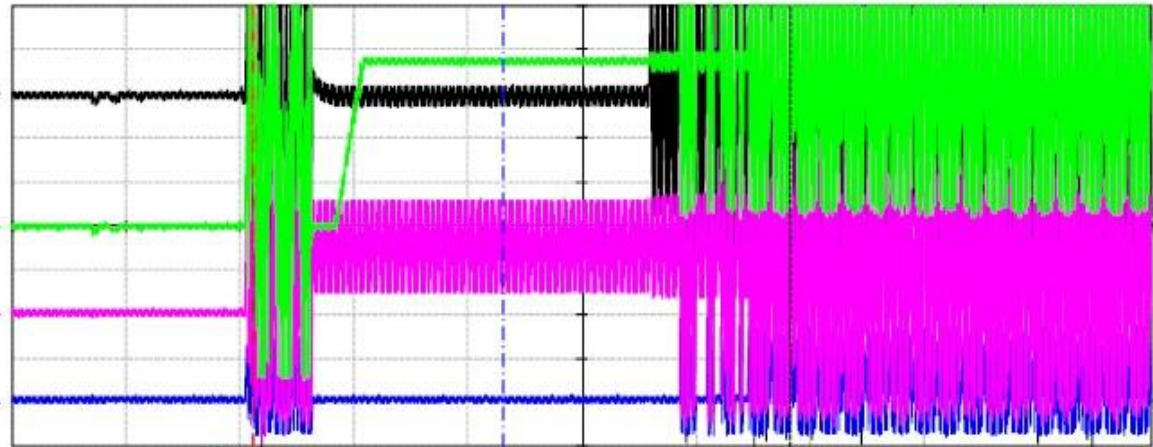


input
output

NG_IC

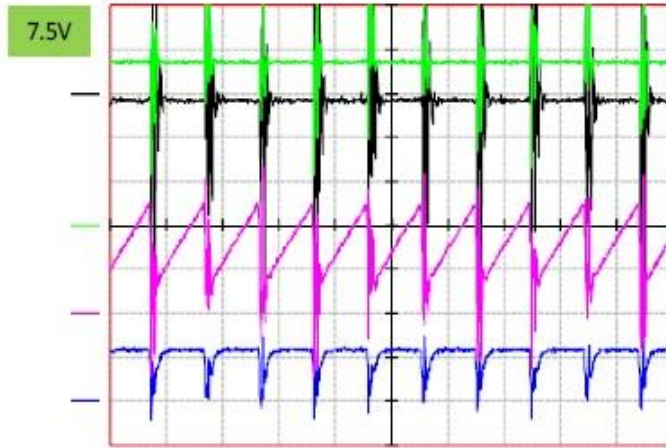
100 V
12 V
27 A

IC_5pin
IC_3pin
IC_14pin
Vgs

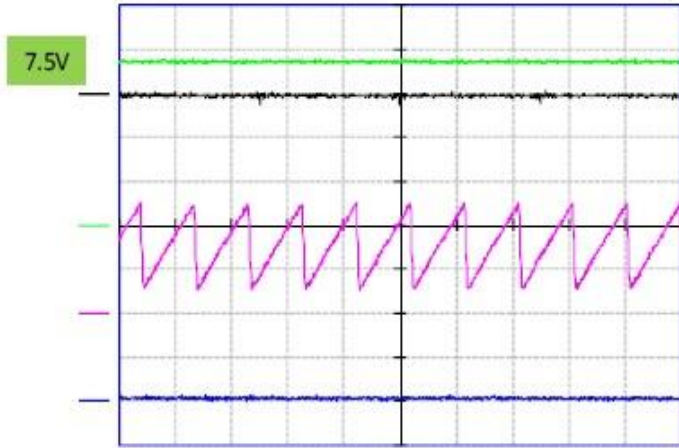


	Scale	Bw
CH1	2 V/div	20Mhz
CH2	10 V/div	20Mhz
CH3	2 V/div	20Mhz
CH4	2 V/div	20Mhz
REF1	-	-
REF2	-	-
REF3	-	-
REF4	-	-
MATH	-	-

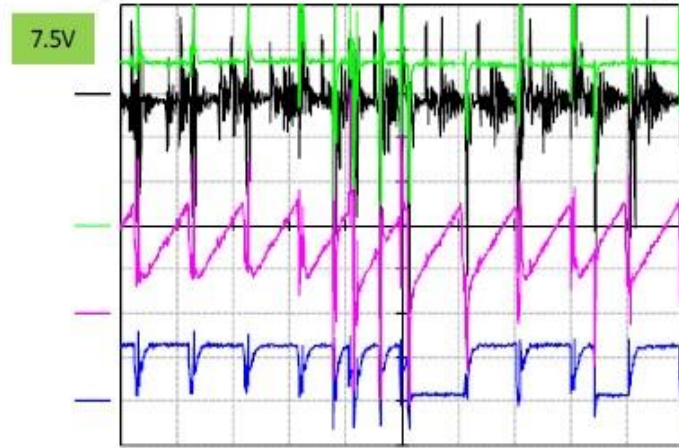
TIME	40 ms/div
Mode	SAMPLE



TIME	4 us/div
Mode	SAMPLE



TIME	4 us/div
Mode	SAMPLE



TIME	4 us/div
Mode	SAMPLE