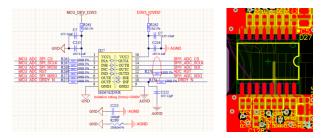
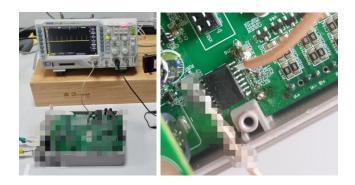
### Input and output waveforms of ISO6762 and IS3762

Using a power-isolated oscilloscope, the waveform differences between the input and output signals of the digital isolator are tested under ESD HCP, and the test is performed using coaxial cables to act as probes to reduce the loop area. **Isolator Circuit:** 



Probe connection: Test points are performed on channels 7-10 of the isolator. Removed the filter capacitor

connected to the IO.



# ISO6762

**Test waveform:** DRDY signal, all test points are taken from the isolator pins.

Test point	Wavefrom	Interference waveform amplification
CH1-MCU This is the floating GND end of the isolation ISO6762-7pin	RIGOL 900P H 50.000 000055   下 部 2.50V     米平 田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	RIGOL FOR H 2008 3000 #5   0 0000000005   下 日 250 V     ※ 平   ●   0 000000005   下 日 250 V     ※ 平   ●   ●   ●
Test point	Wavefrom	Interference waveform amplification
CH1-ADC This is the non-isolated terminal connected to the power grid N ISO6762-10pin	RIGOL 開硬用 H 50.0us 300 ##*   D 0.00000000000000000000000000000000000	RIGOL ● 000 H 200ms   200ms   第二   1   0   0.00000000000000000000000000000000000

# IS3762

# **Test waveform:** DRDY signal, all test points are taken from the isolator pins.

Test point	Wavefrom	Interference waveform amplification
CH1-MCU This is the floating GND end of the isolation ISO6762-7pin	RIGOL   FF ● 2.00V     **   ● 0.000000005     ## 合     ## ## ## ############################	RIGOL \$FTOF H 20015 \$\$000.655   ● 0.00000000005   下 多 2.20V     *#   ●   ● 0.0000000005   下 多 2.20V     ##   ●   ●   ●   ●     ##   ●   ●   ●   ●   ●     ##   ●   ●   ●   ●   ●   ●   ●   ●     ##   ●
Test point	Wavefrom	Interference waveform amplification
CH1-ADC This is the non-isolated terminal connected to the power grid N ISO6762-10pin	RIGOL   3TOP H \$10005 \$3000000000000000000000000000000000	RIGOL STOP H 2001s 3000 (25 m)   * # *   ## *<



#### This is the DRDY waveform when the two isolators are communicating normally