MOPA Fiber Laser

MFP Series LD+MOPA fiber laser, it can use in many applications which the Q-switch fiber laser can not fulfillment, the peak power is higher, and pulse width more narrow, it more suitable for the deep marking.

It has the characteristics as follows:

Shortly opening time

High peak power, it can up to 28KW

The pulse width range from 10ns-250ns

The special design to ensure this laser no leak if the laser off, even in special materials, there're also no shadow and virtual point appeared.

Maxphotonics' laser design with high reliability, all with anti-pulse fiber laser are characterized by high anti-material processing.

Parameters

Parameters	Data	Unit
type	20W pulsed	W
wavelength	1064±4	nm
Average output power	20	W
Energy per pulse	0.5-0.6	mJ
Pulse width	10-250	ns
Frequency tunable range	35-500	KHz
Polarization	Random	
Beam quality M2	<1.8	
Power stability (t>5h)	<5	%
Power tuable range	5-100	%
Output fiber length	2--5	m
Operation voltage	24	VDC
Power consumption（20℃）	100	W
Cooling	Forced air	
Operating temperature range	0--45	℃
Operating humidity	10--95	%
weight	10	Kg
Dimension W×D×H	347×275×120	mm

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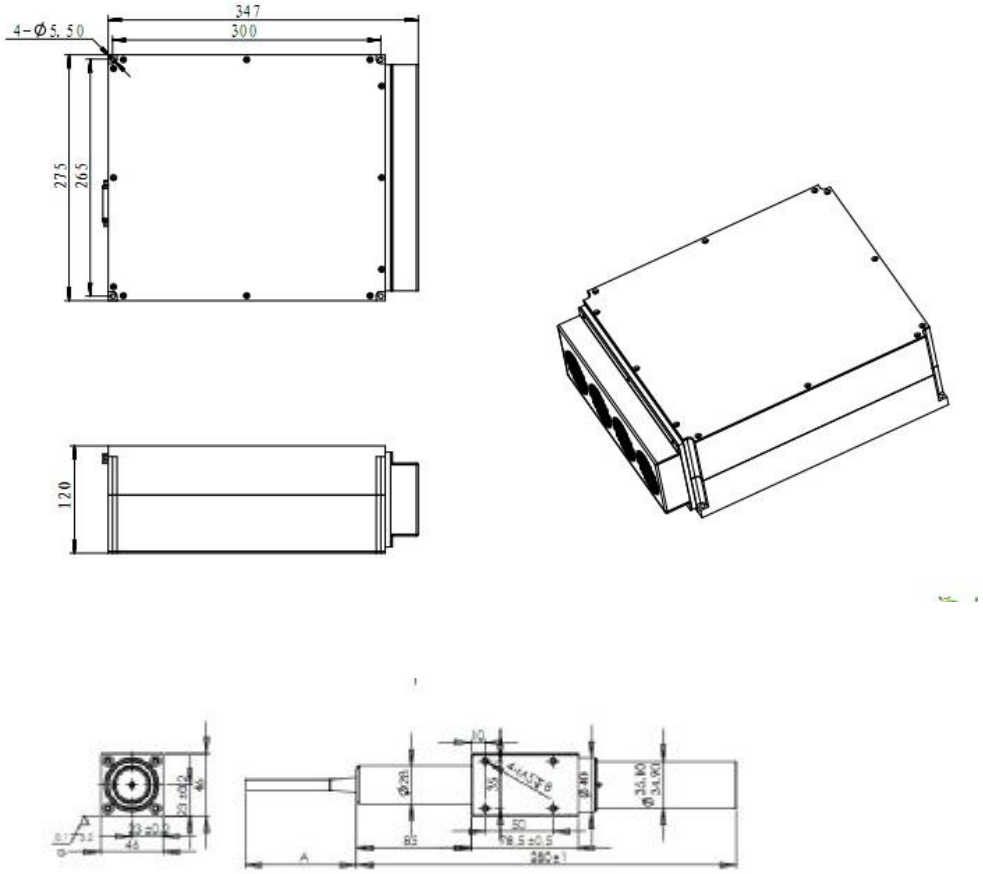
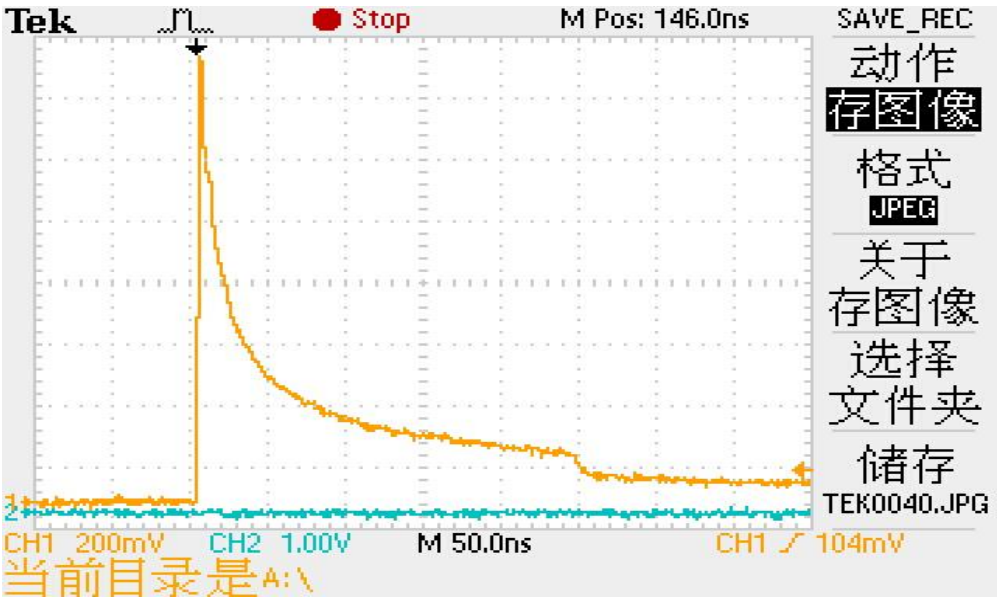
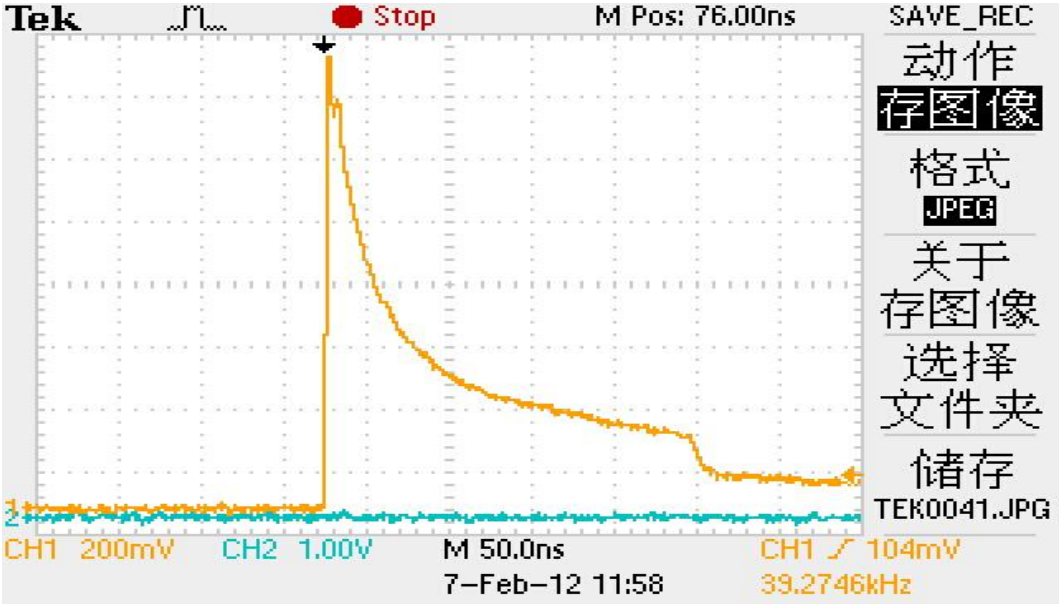


Pulse width images for reference

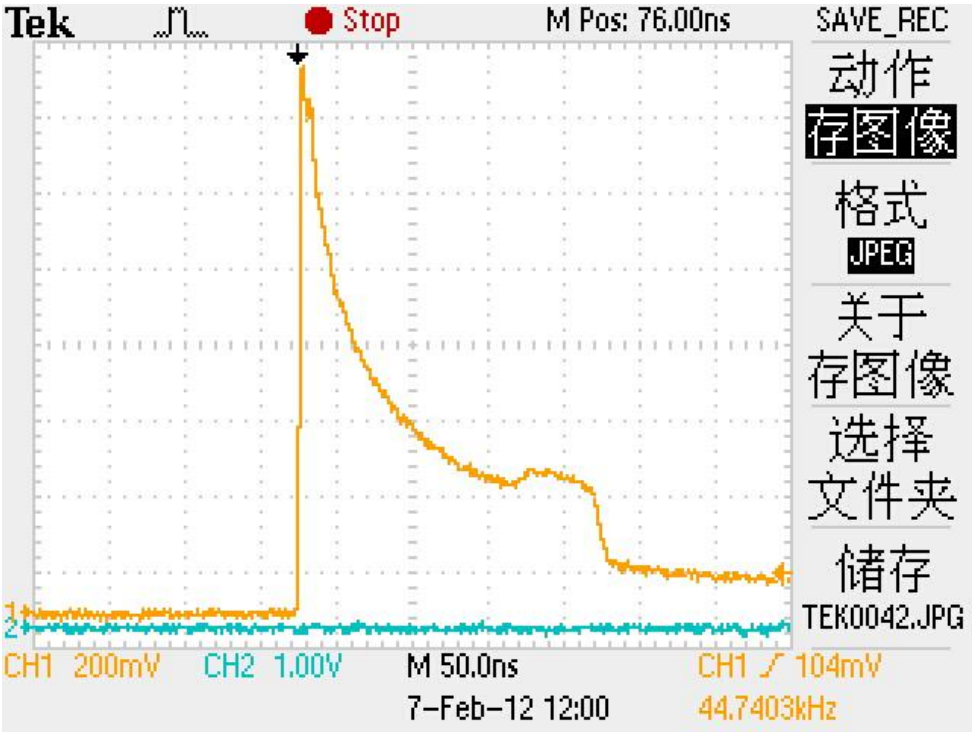
(1) Frequency:35--40KHz Pulse width:250ns



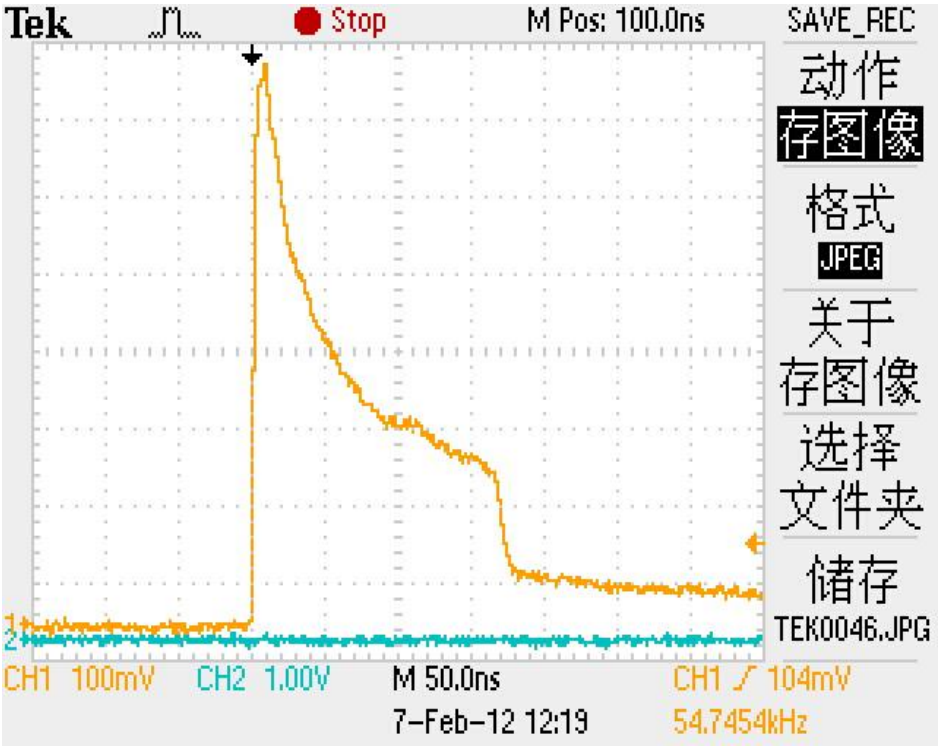
(2) Frequency:40------45 KHz Pulse width:230 ns



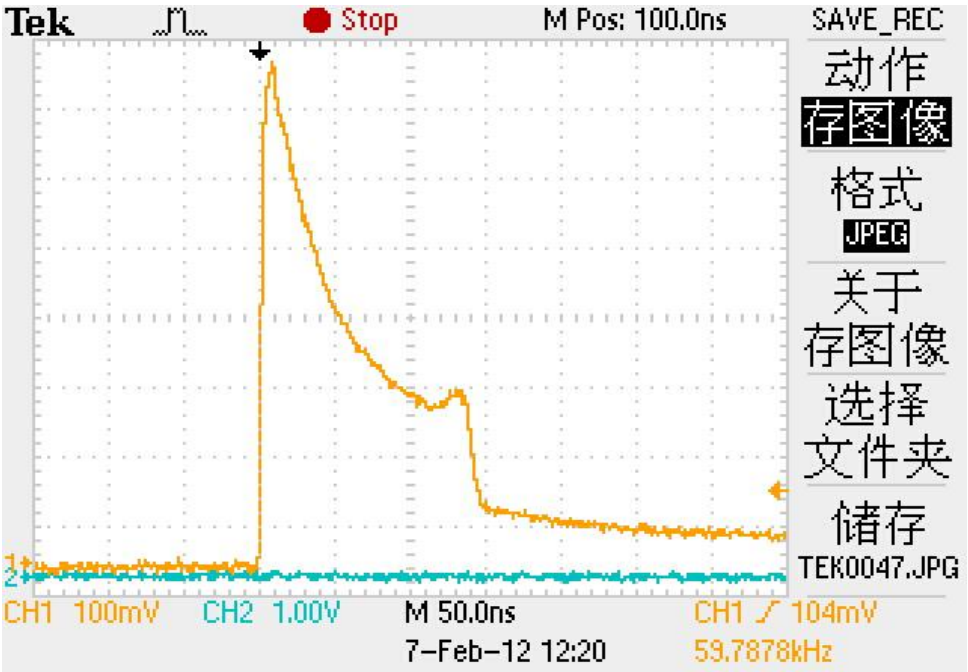
(3) Frequency:45------50 KHz Pulse width:200 ns



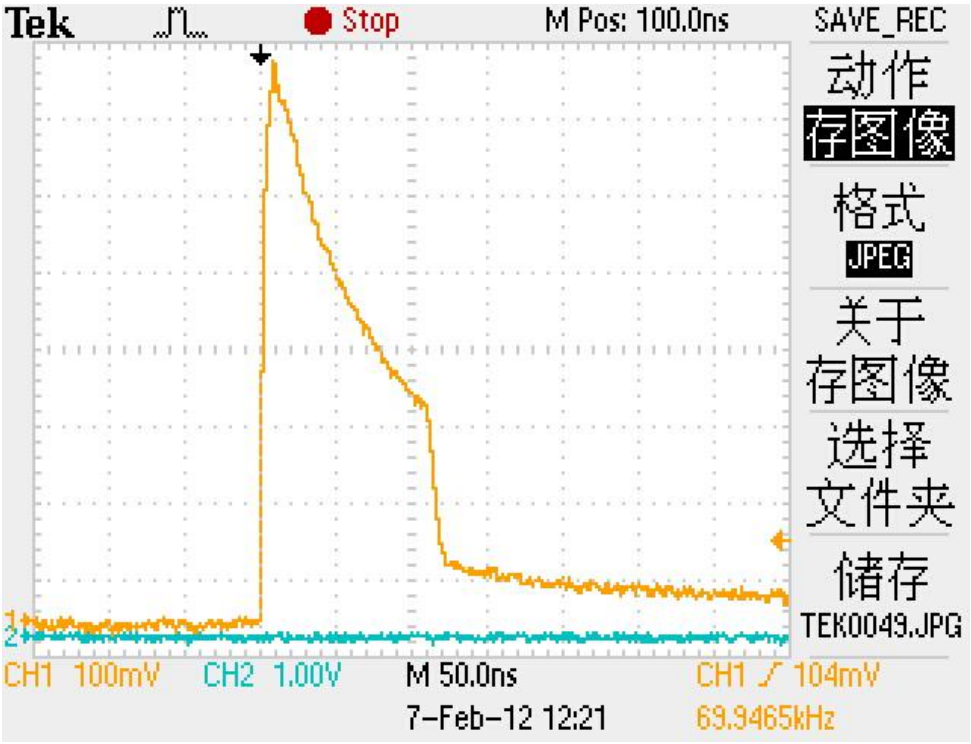
(4) Frequency:50------60 KHz Pulse width:170 ns



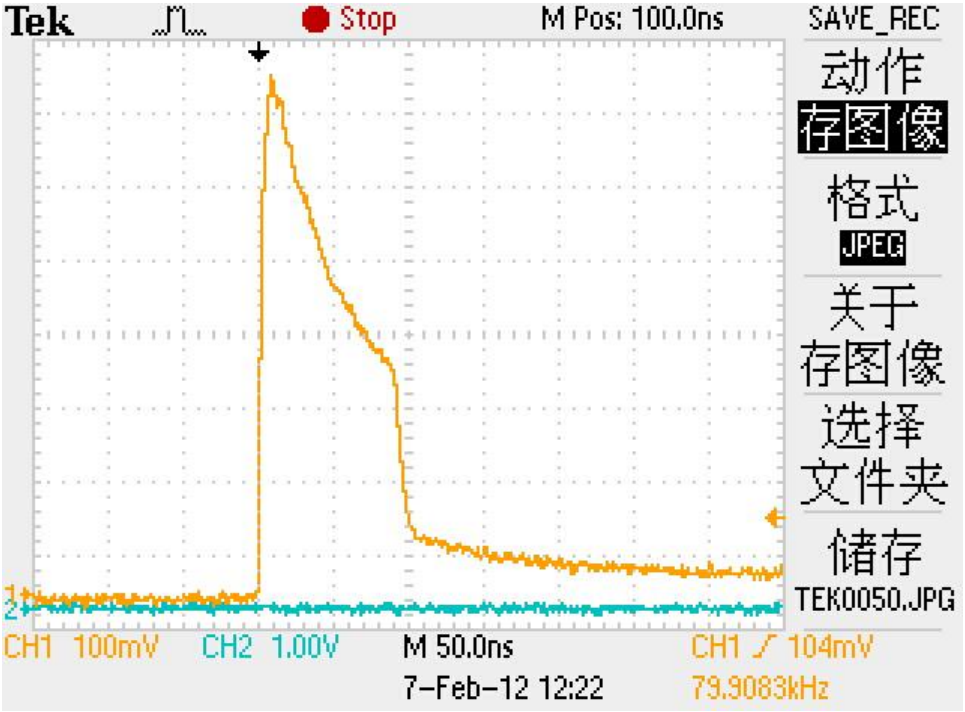
(5) Frequency:60------70 KHz Pulse width:140 ns



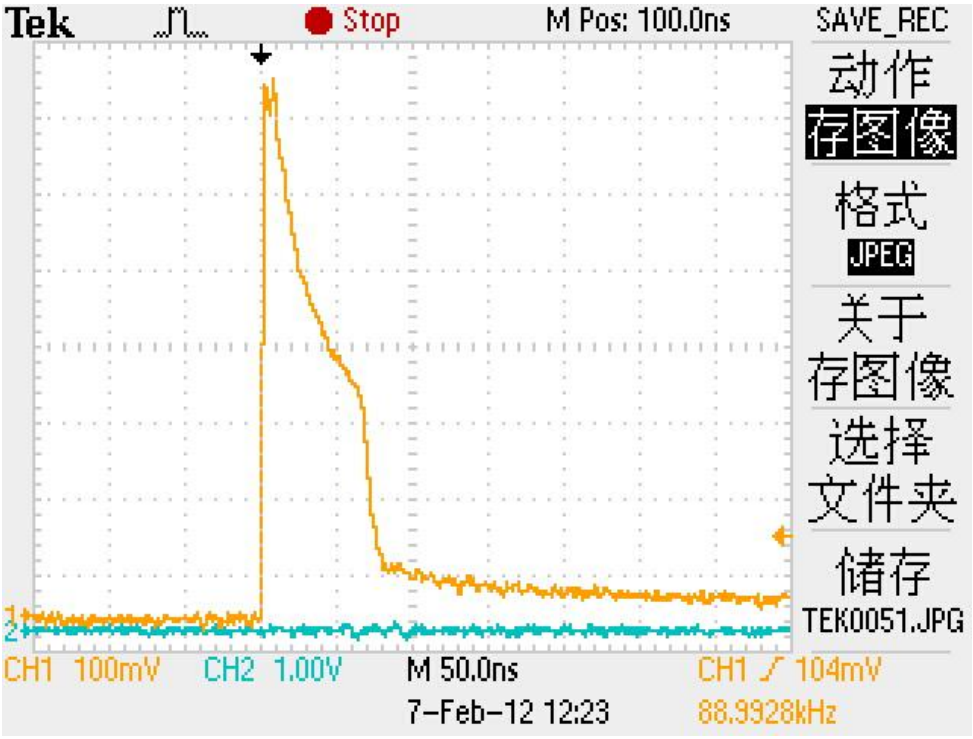
(6) Frequency:70------80 KHz Pulse width:110 ns



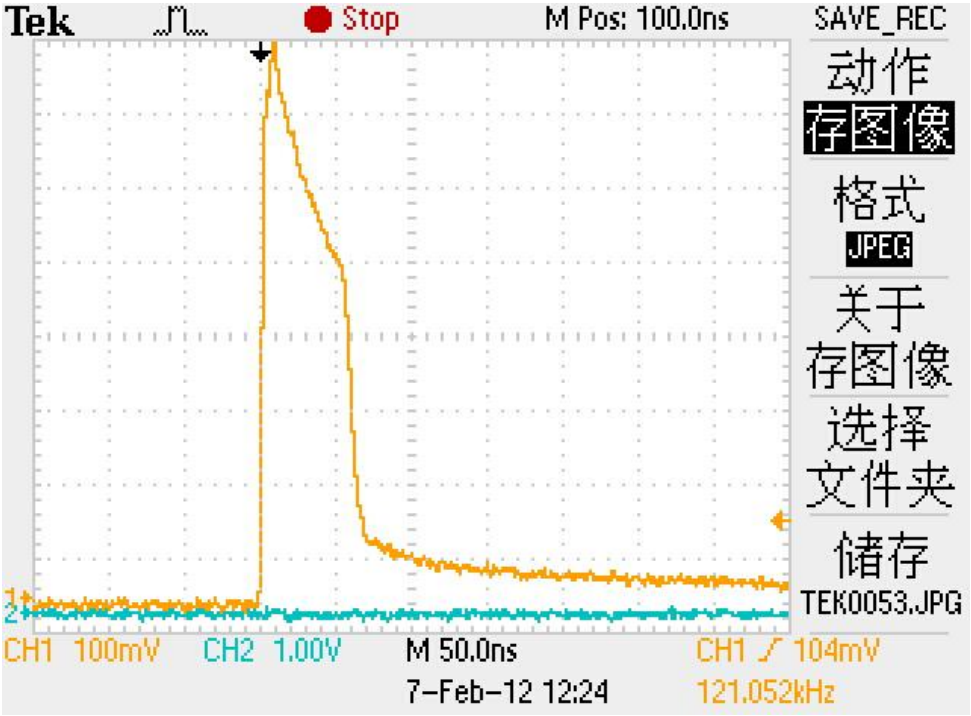
(7) Frequency:80------90 KHz Pulse width:90 ns



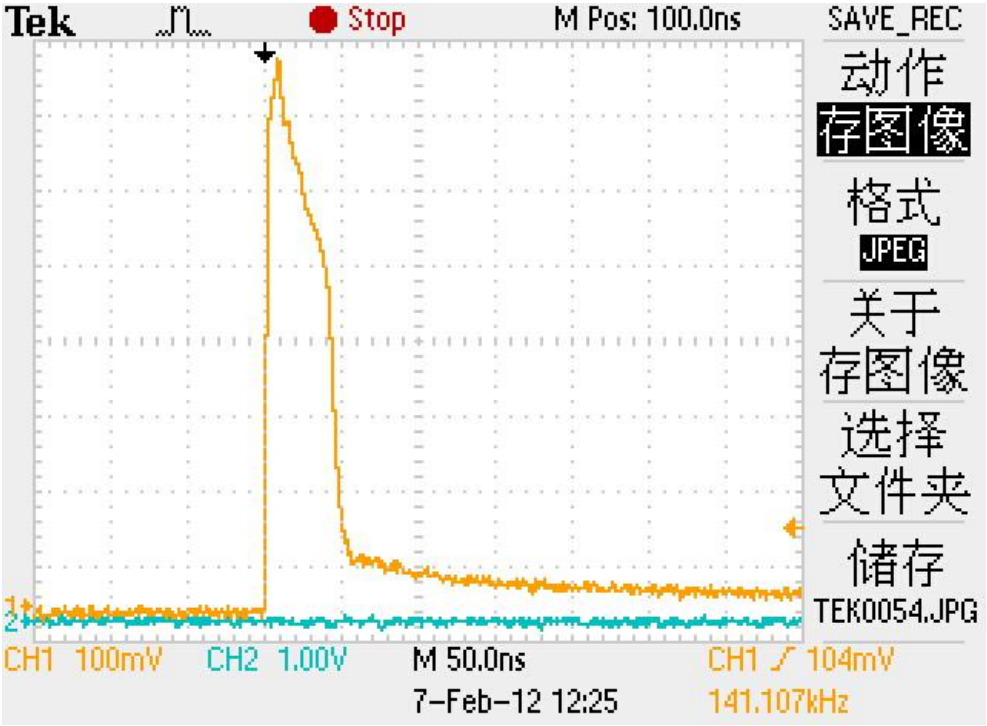
(8) Frequency:90------100 KHz Pulse width:70 ns



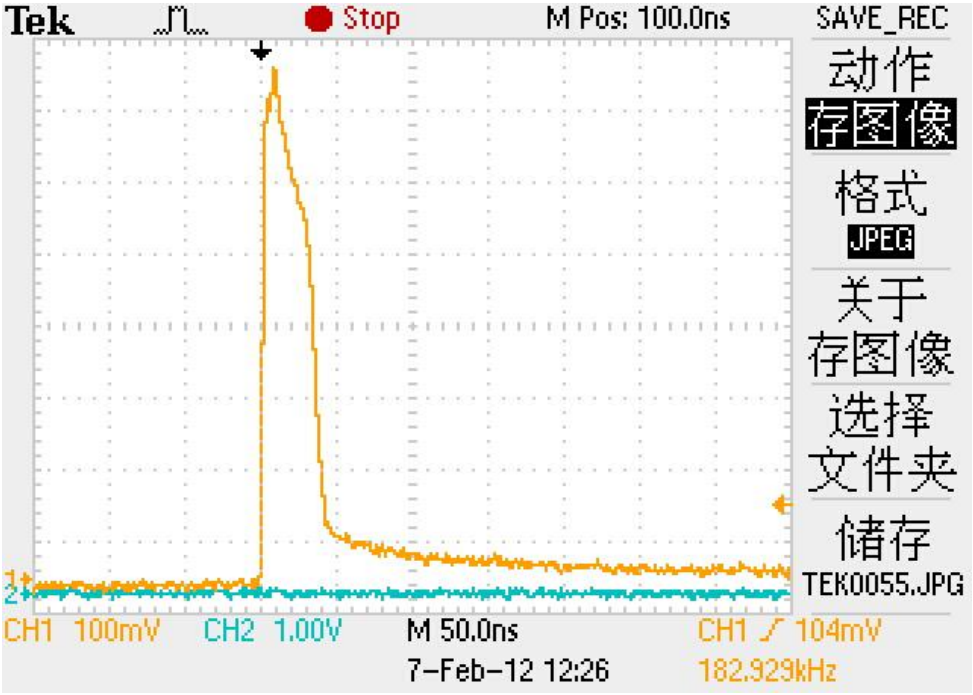
(9) Frequency:100------125 KHz Pulse width :60 ns



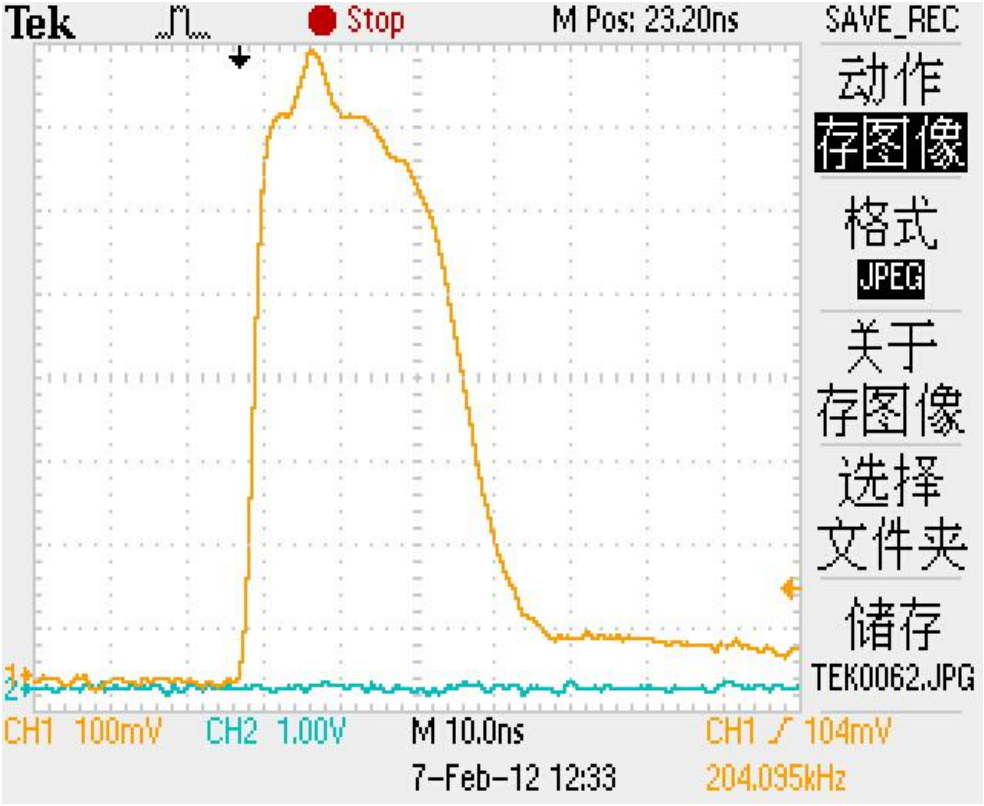
(10) Frequency:125------150 KHz Pulse width:40 ns



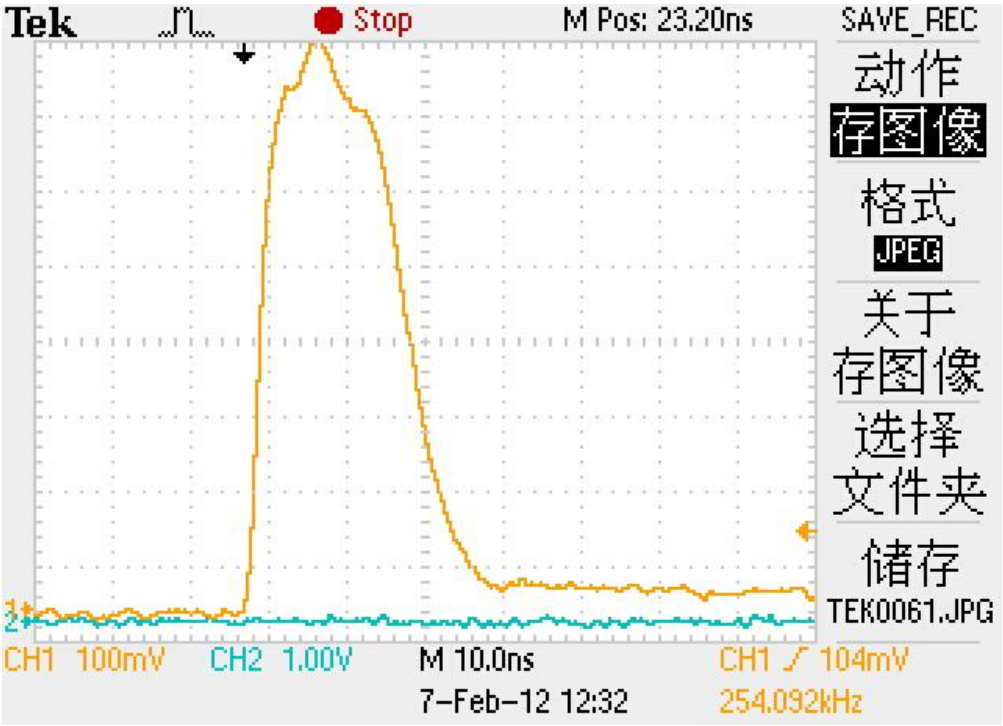
(11) Frequency:150------200KHz Pulse width:33 ns



(12) Frequency:200------250 KHz Pulse width:26 ns



(13) Frequency:250------300 KHz Pulse width:20 ns



(14) Frequency:300------500KHz Pulse width:10 ns