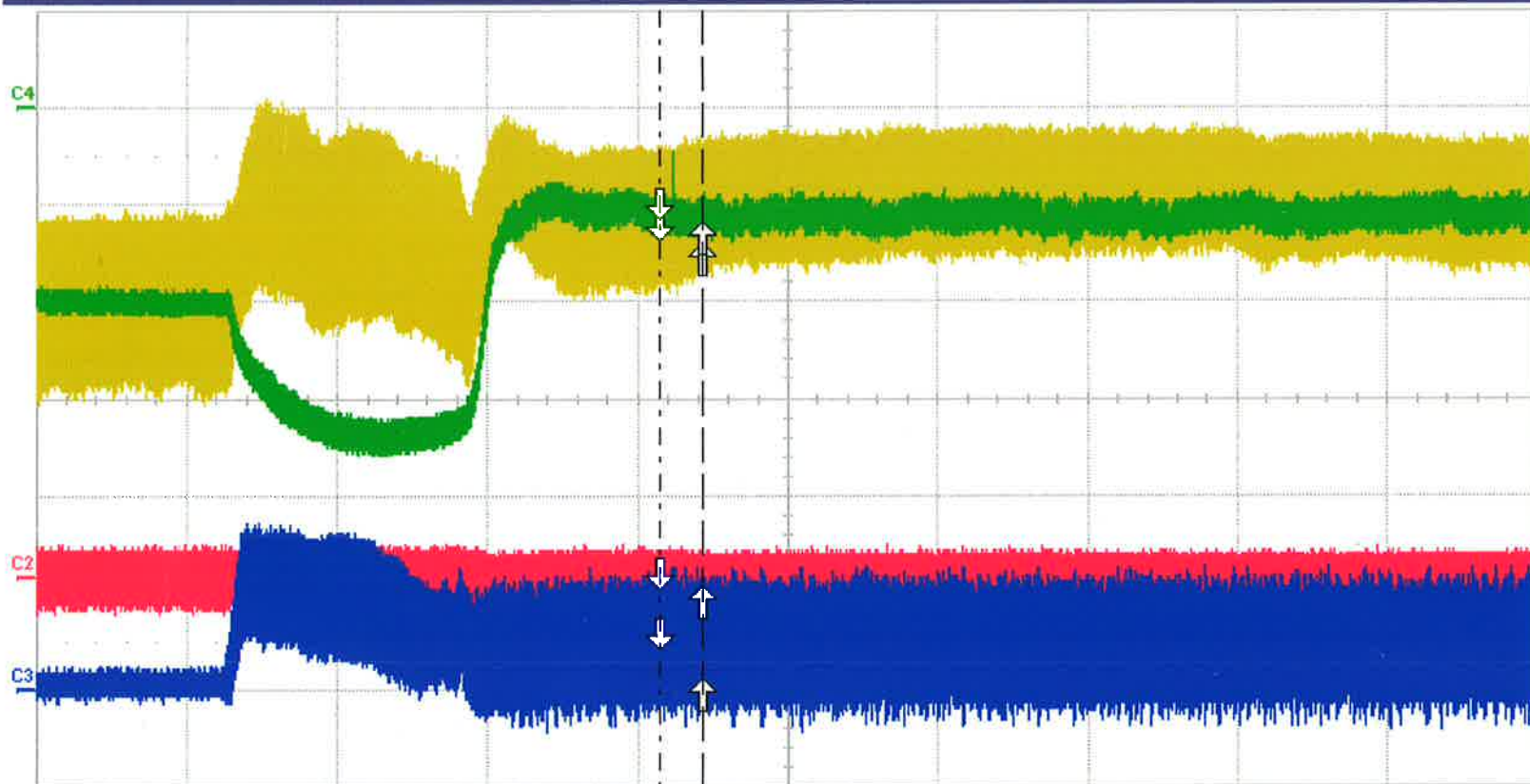


File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



**Measure**  
value  
status

P1:mean(C1)

-196.4 mV

P2:pkpk(C2)

625 mV

P3:pkpk(C3)

166 V

P4:mean(C3)

37.2 V

P5:mean(C4)

-109.5 V

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ -296.4 mV	↓ -92 mV	↓ 43.8 V	↓ -112.1 V
↑ -142.3 mV	↑ -109 mV	↑ 10.2 V	↑ -118.9 V
Δy 154.1 mV	Δy -17 mV	Δy -33.5 V	Δy -6.8 V

Timebase	-400 μs	Trigger	Ext/IO [DC]
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

**LeCroy**

11/11/2019 10:07:18 AM

11-Nov-19  
10:07:39

1  
.5 ms  
0.50 V

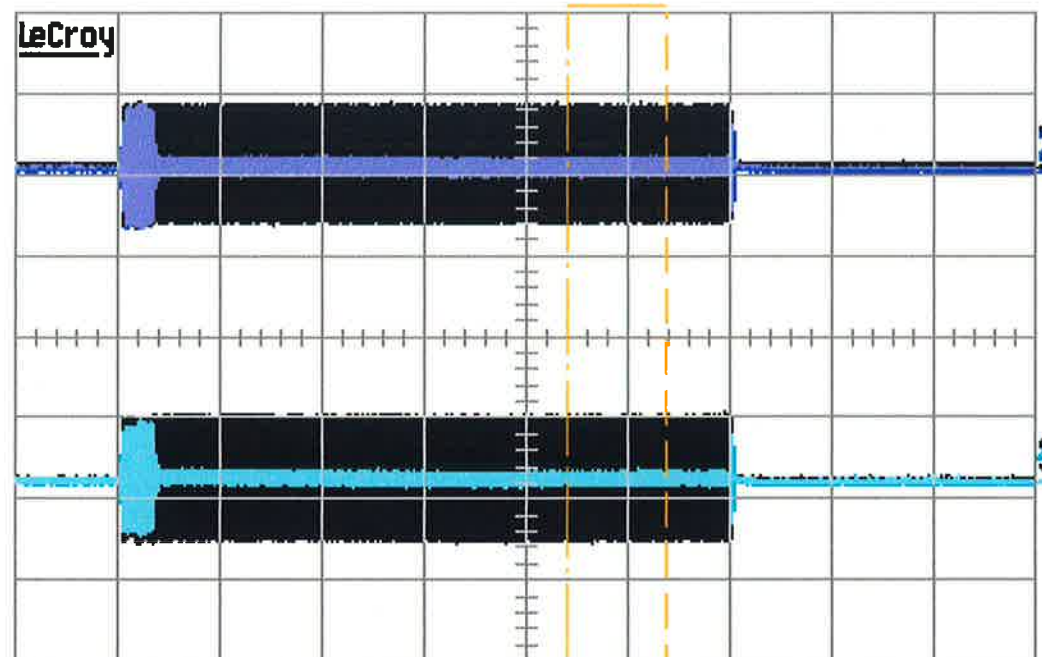
2  
.5 ms  
200 mV

3  
.5 ms  
0.50 V

4  
.5 ms  
200 mV

.5 ms

1 .5 V AC  
2 .2 V AC  
3 .5 V AC  
4 .2 V AC



26 sweeps:

	average	low	high	sigma
rms(1)	249.8 mV	248.2	251.6	0.9
rms(2)	16.5 mV	14.8	18.0	0.8
rms(3)	267.6 mV	265.9	269.2	0.9
rms(4)	13.2 mV	10.9	15.1	1.1
phase(1,3)	61.8 °	-133.1	220.7	34.5

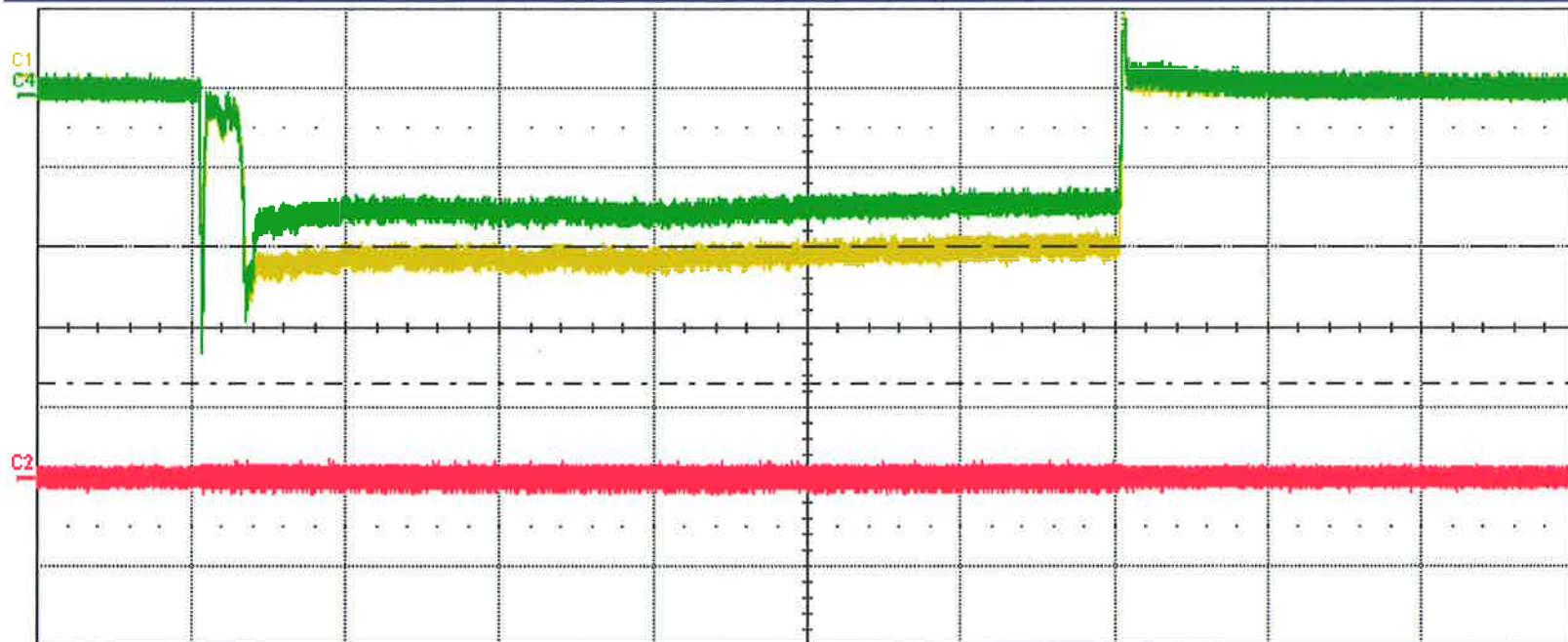


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-44.78 mV	-28.26 mV	-45.32 mV	-29.20 mV	---	---
mean	-45.6707 mV	-29.2414 mV	-45.5932 mV	-29.1944 mV	---	---
min	-47.73 mV	-31.11 mV	-47.24 mV	-30.90 mV	---	---
max	-43.59 mV	-27.07 mV	-43.39 mV	-27.13 mV	---	---
sdev	1.0937 mV	1.1205 mV	888.7 $\mu$ V	879.5 $\mu$ V	---	---
num	28	28	28	28	0	---
status	✓	✓	✓	✓	---	---

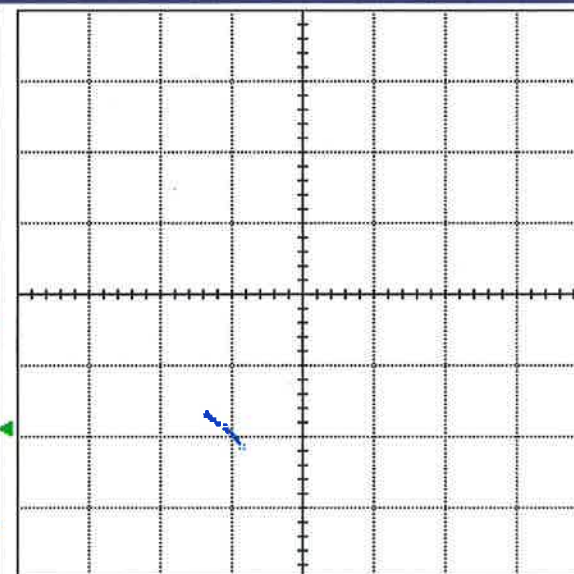
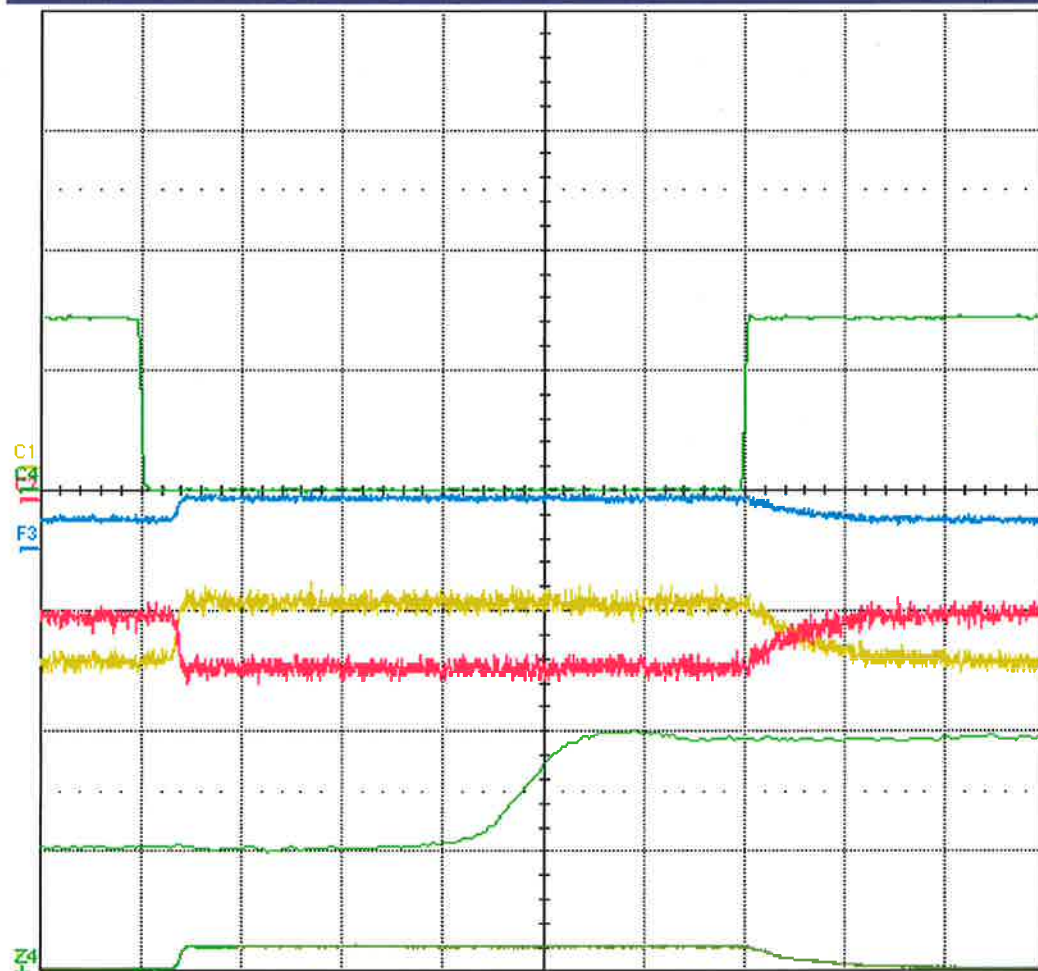
C1	C2	C4
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
----- -77.0 mV	----- 1.19 V	----- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
$\Delta y$ 34.0 mV	$\Delta y$ 1.70 V	$\Delta y$ 34.0 mV

Timebase	-2.00 ms	Trigger	Ext/IO DC
500 $\mu$ s/div		Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

LeCroy

11/11/2019 10:07:30 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



C1	D1	C2	D1	C4	F3 script...	F4	<F3>	XY	XFI...	Z4 zoom(...
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	200 mV	200 mV	400e-3
38 mV	-16 mV	0 mV	500 ps	500 ps	56 #	57 #	56 #			

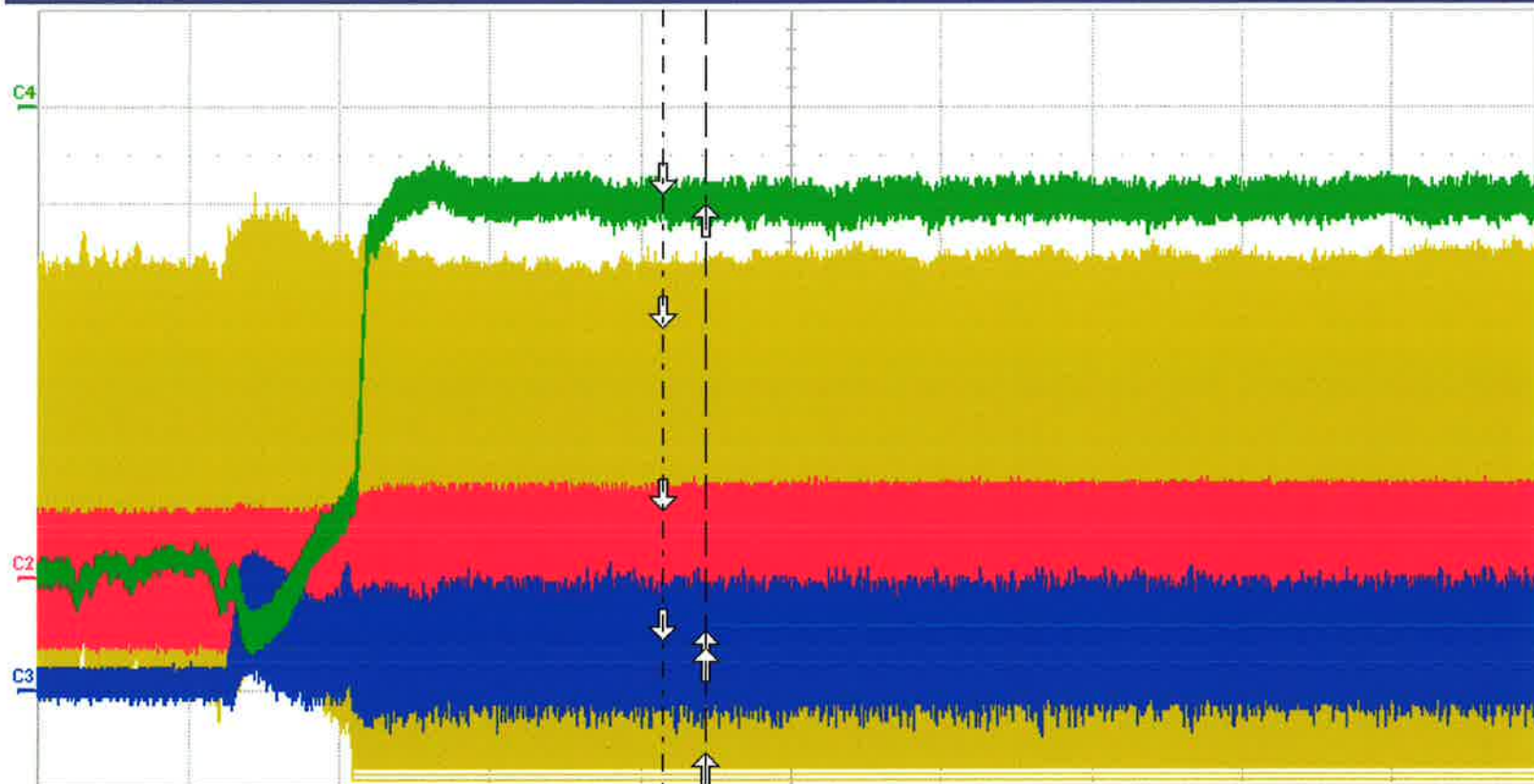
Tbase	-2.00 ms	Trigger	C4 DC
500 ps/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:07:34 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



**Measure**  
value  
status

P1:mean(C1)  
-919.0 mV  
↓

P2:pkpk(C2)  
2.06 V  
✓

P3:pkpk(C3)  
163 V  
✓

P4:mean(C3)  
37.6 V  
✓

P5:mean(C4)  
-95.3 V  
✓

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ -452.4 mV	↓ 715 mV	↓ 54.4 V	↓ -87.1 V
↑ -1.3314 V	↑ -560 mV	↑ 41.9 V	↑ -101.5 V
Δy -879.0 mV	Δy -1.275 V	Δy -12.5 V	Δy -14.4 V

Timebase	-400 μs	Trigger	Ext/10 DC
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

11/11/2019 10:09:04 AM

11-Nov-19

10:09:33

1

.5 ms  
0.50 V

2

.5 ms  
200 mV

3

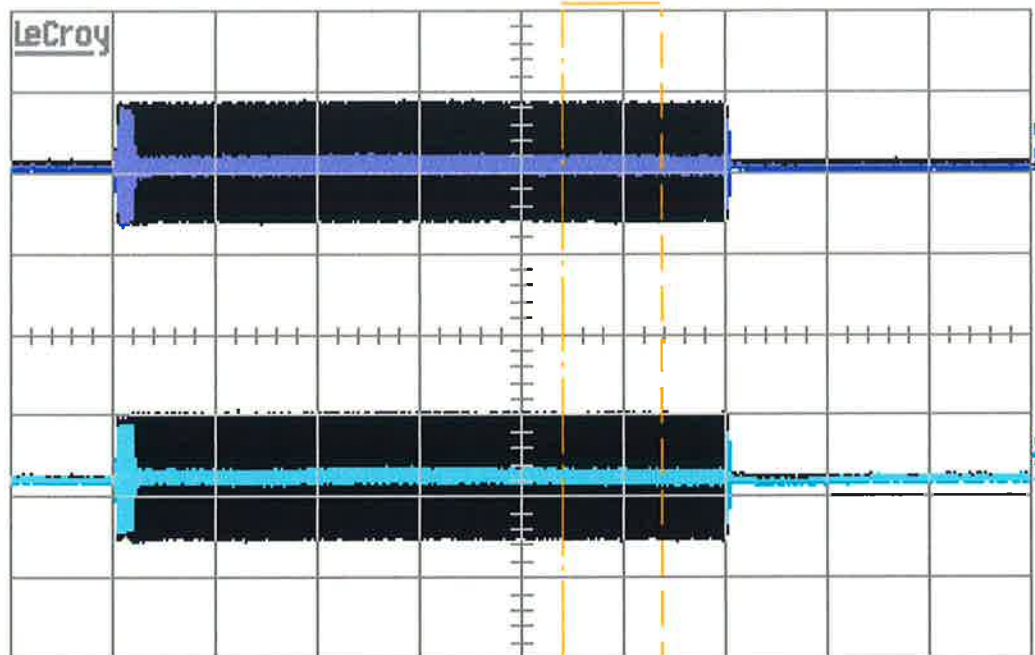
.5 ms  
0.50 V

4

.5 ms  
200 mV

.5 ms

1 .5 V AC  
2 .2 V AC  
3 .5 V AC  
4 .2 V AC



5 sweeps:    average    low    high    sigma

rms(1)	250.0mV	249.1	251.0	0.8
rms(2)	16.1mV	15.8	16.4	0.2
rms(3)	267.7mV	266.8	268.5	0.7
rms(4)	12.9mV	12.1	13.8	0.7
phase(1,3)	62 °	30	220	35

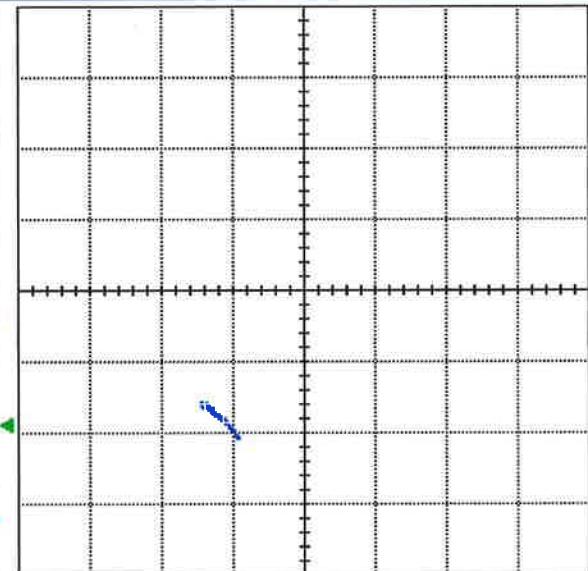
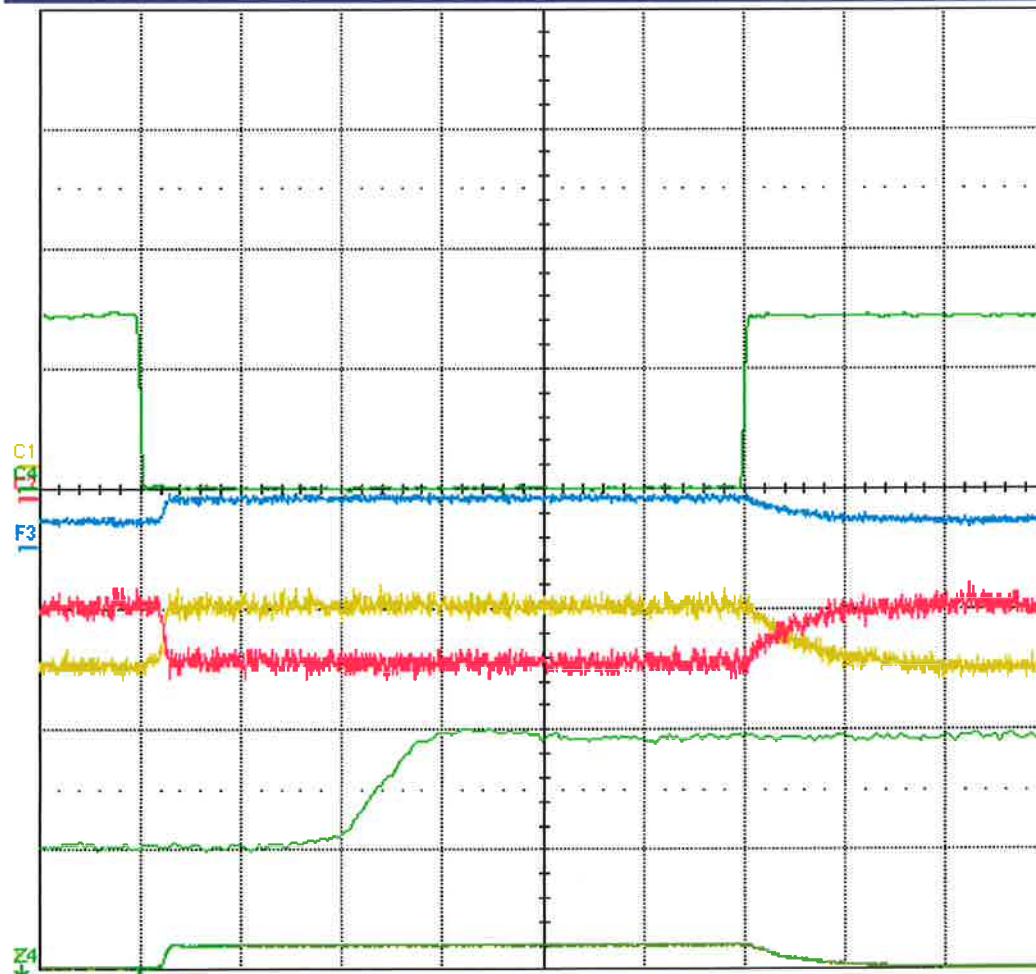


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



<b>C1</b>	<b>D1</b>	<b>C2</b>	<b>D1</b>	<b>C4</b>	<b>F D1</b>	<b>F3 script...</b>	<b>F4</b>	<b>&lt;F3&gt;</b>	<b>XY</b>	<b>X F1</b>	<b>Z4 zoomC...</b>
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	2.00	200 mV	200 mV	400e-3
38 mV	-16 mV	0 mV	500 $\mu$ s	500 $\mu$ s	23 #	23 #	23 #	23 #	23 #	23 #	23 #

<b>Tbase</b>	<b>-2.00 ms</b>	<b>Trigger</b>	<b>C4</b>	<b>1.00 V</b>
500 ps/div	Normal	Edge	Negative	
2.50 kS	500 kS/s			

LeCroy

11/11/2019 10:09:34 AM

11-Nov-19  
10:11:07

**1**  
.5 ms  
0.50 V

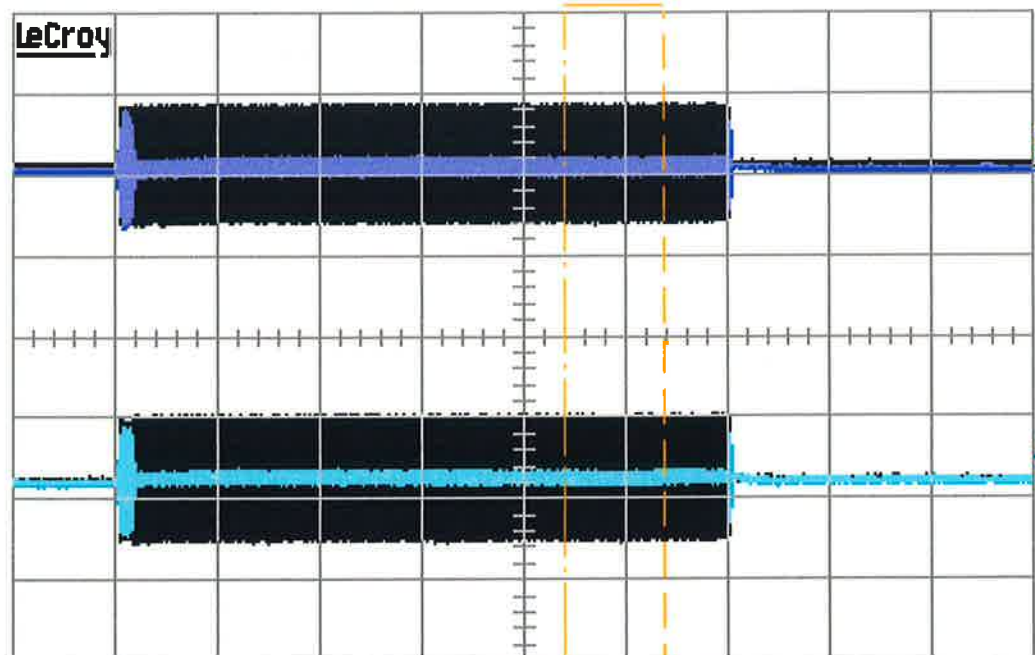
**2**  
.5 ms  
200mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200mV

.5 ms

**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



23 sweeps:

	average	low	high	sigma
rms(1)	248.9mV	246.5	259.9	2.7
rms(2)	16.0mV	15.0	17.8	0.7
rms(3)	266.4mV	264.1	277.2	2.6
rms(4)	13.0mV	11.0	15.2	1.1
phase(1,3)	61.7 °	-132.2	220.4	37.1



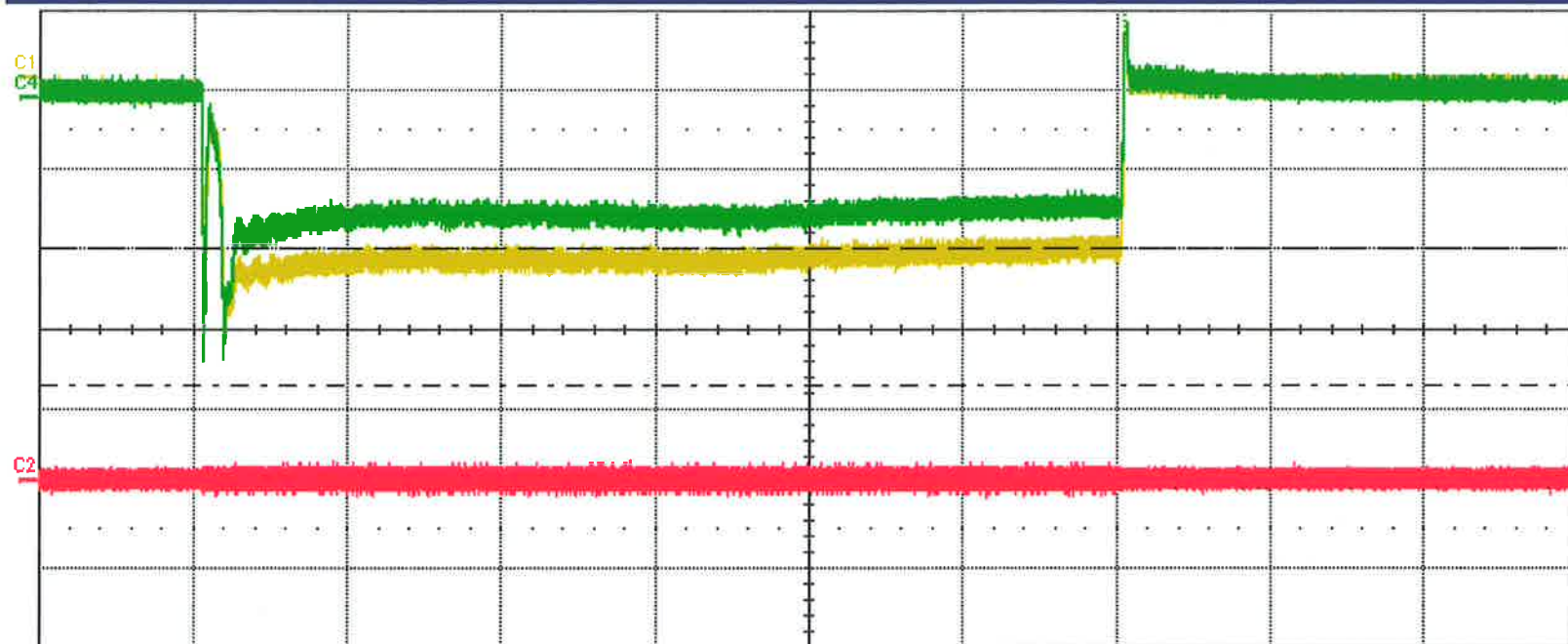
Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-45.28 mV	-29.72 mV	-45.79 mV	-30.08 mV	---	---
mean	-45.2275 mV	-29.3959 mV	-45.2386 mV	-29.3685 mV	---	---
min	-49.41 mV	-31.86 mV	-48.77 mV	-31.23 mV	---	---
max	-43.22 mV	-27.40 mV	-43.65 mV	-27.83 mV	---	---
sdev	1.1976 mV	1.0366 mV	1.1350 mV	1.0129 mV	---	---
num	24	24	24	24	0	---
status	✓	✓	✓	✓	---	---

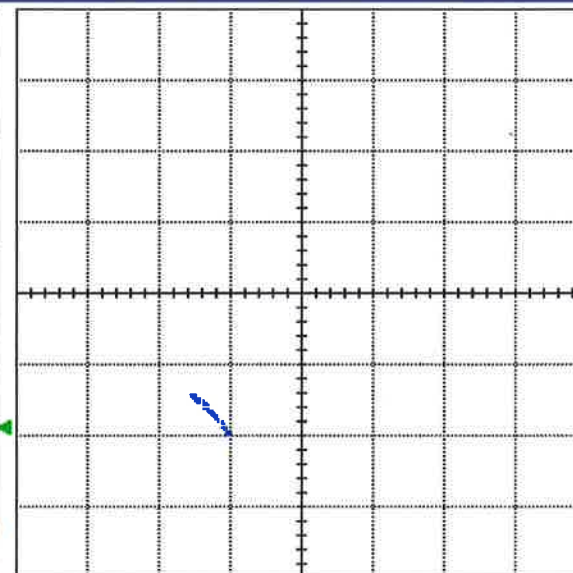
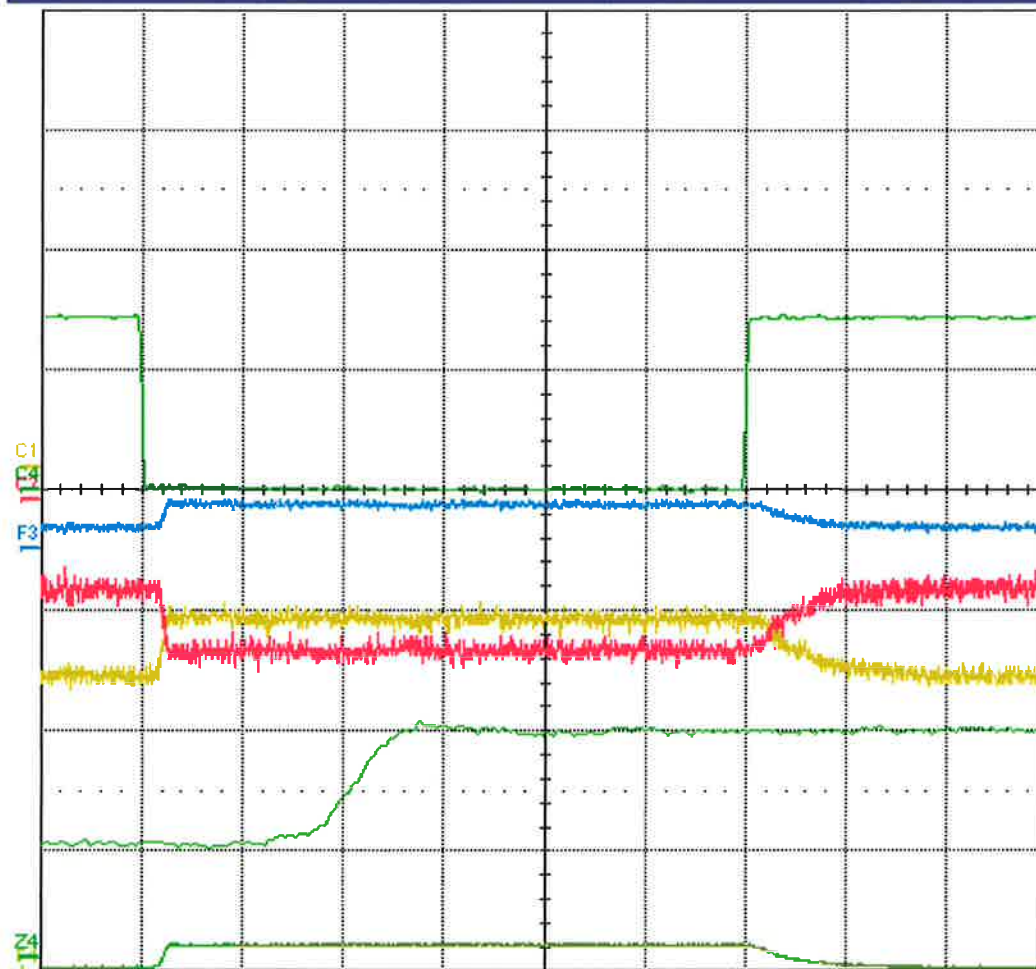
C1	C2	C4
DCIM	DCIM	DCIM
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
----- -77.0 mV	----- 1.19 V	----- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
Δy 34.0 mV	Δy 1.70 V	Δy 34.0 mV

Timebase	-2.00 ms	Trigger	Ext/10 DC
1.00 MS	500 μs/div	Normal	200 mV
	200 MS/s	Edge	Negative

LeCroy

11/11/2019 10:10:57 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



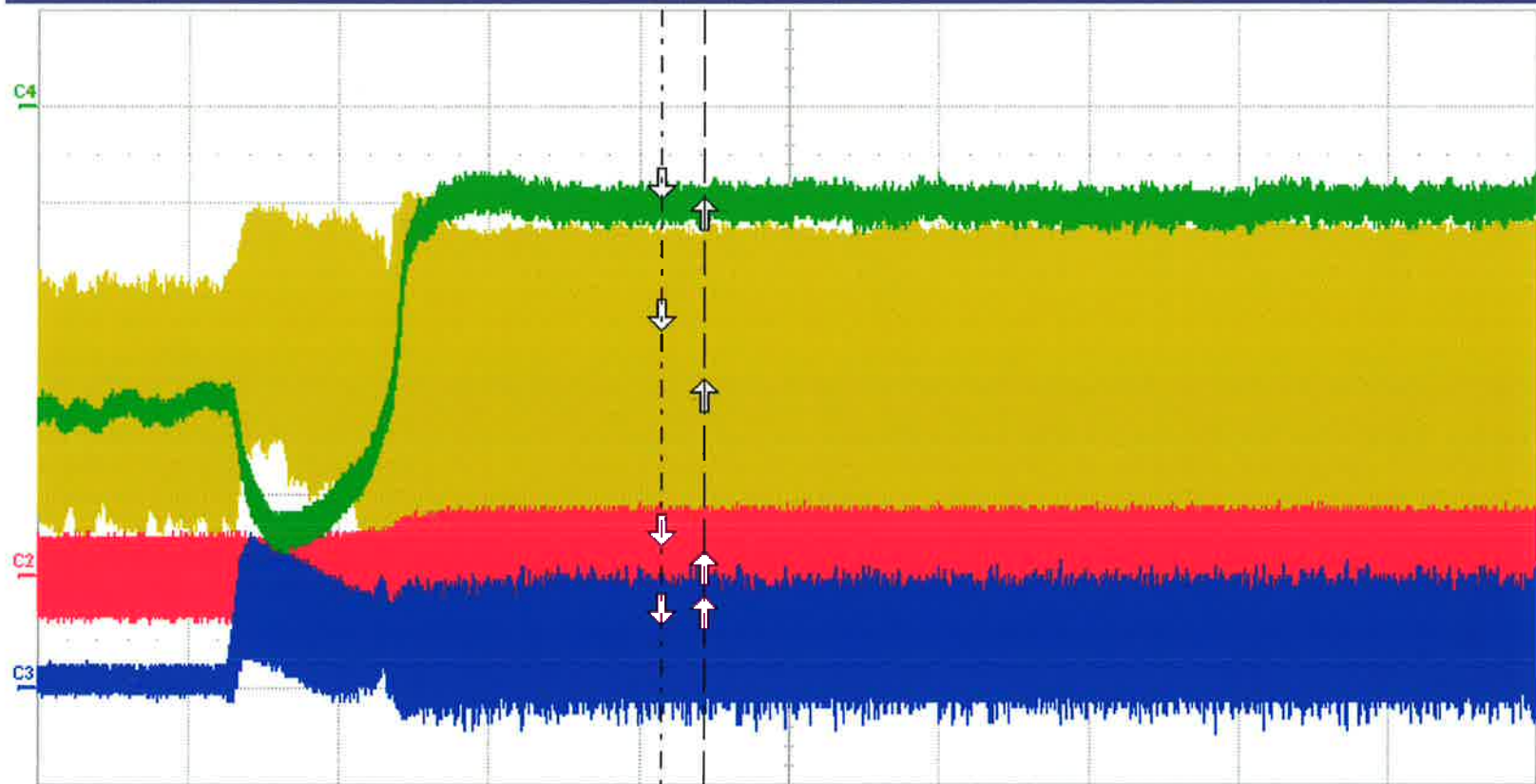
C1	D1	C2	D1	C4	F D1	F3	script(...	F4	<F3>	XY	XF1...	Z4	zoom(...
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	2.00	2.00	200 mV	200 mV	400e-3	400e-3
38 mV	-16 mV	0 mV	0 mV	500 $\mu$ s	500 $\mu$ s	500 $\mu$ s	500 $\mu$ s	500 $\mu$ s	500 $\mu$ s	200 mV	200 mV	50.0 $\mu$ s	50.0 $\mu$ s
										23 #	23 #	23 #	23 #

Tbase	-2.00 ms	Trigger	C4 DC
	500 $\mu$ s/div	Normal	1.00 V
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:10:59 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



**Measure**  
value  
status

P1:mean(C1)

-683.6 mV

P2:pkpk(C2)

1.47 V

P3:pkpk(C3)

159 V

P4:mean(C3)

38.1 V

P5:mean(C4)

-99.9 V

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ -458.9 mV	↓ 329 mV	↓ 68.8 V	↓ -92.7 V
↑ -567.6 mV	↑ 230 mV	↑ 94.1 V	↑ -94.2 V
Δy -108.8 mV	Δy -99 mV	Δy 25.4 V	Δy -1.5 V

Timebase	-400 μs	Trigger	Edge/10 DC
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

11/11/2019 10:12:01 AM

11-Nov-19  
10:12:38

**1**  
.5 ms  
0.50 V

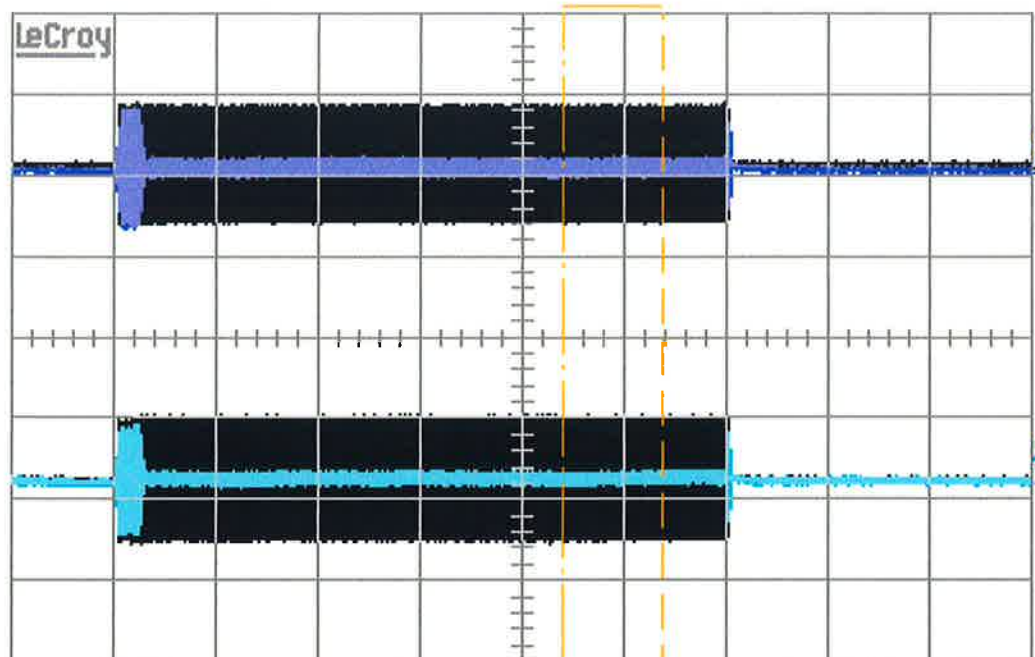
**2**  
.5 ms  
200 mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200 mV

.5 ms

**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



6 sweeps:

	average	low	high	sigma
rms( <b>1</b> )	247.5mV	246.5	248.4	0.8
rms( <b>2</b> )	16.2mV	14.9	17.5	0.9
rms( <b>3</b> )	264.7mV	263.8	265.6	0.7
rms( <b>4</b> )	13.2mV	10.7	15.2	1.6
phase( <b>1,3</b> )	59.7 °	-130.8	220.1	36.3

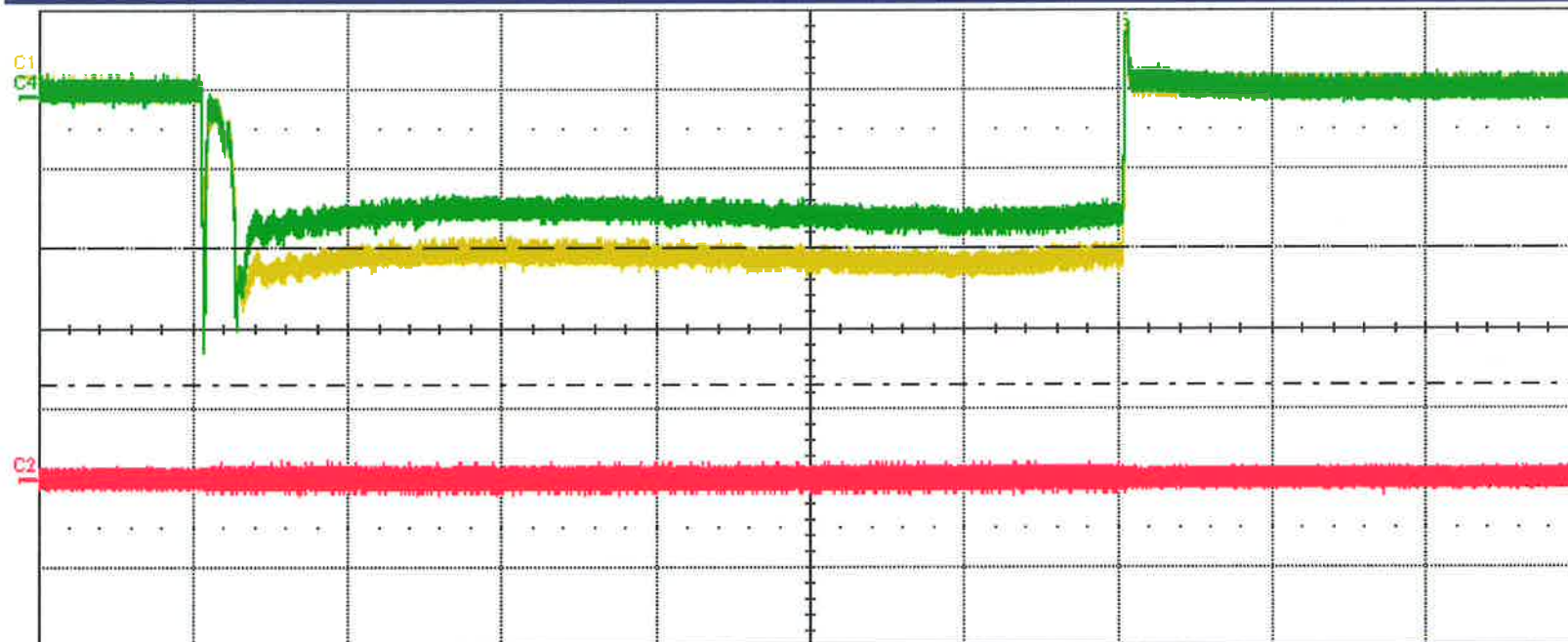


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL



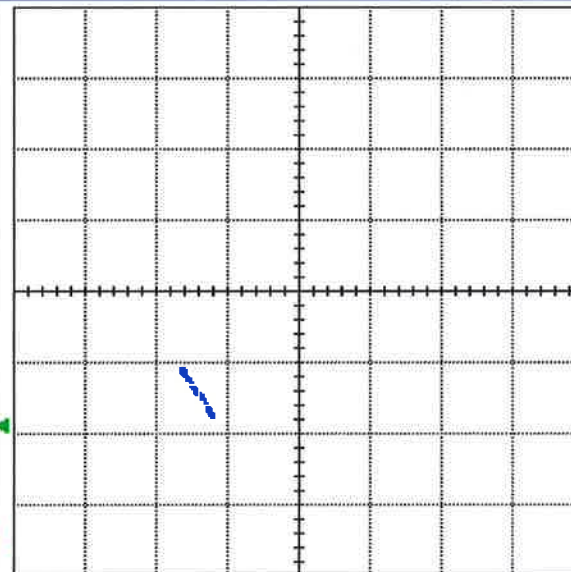
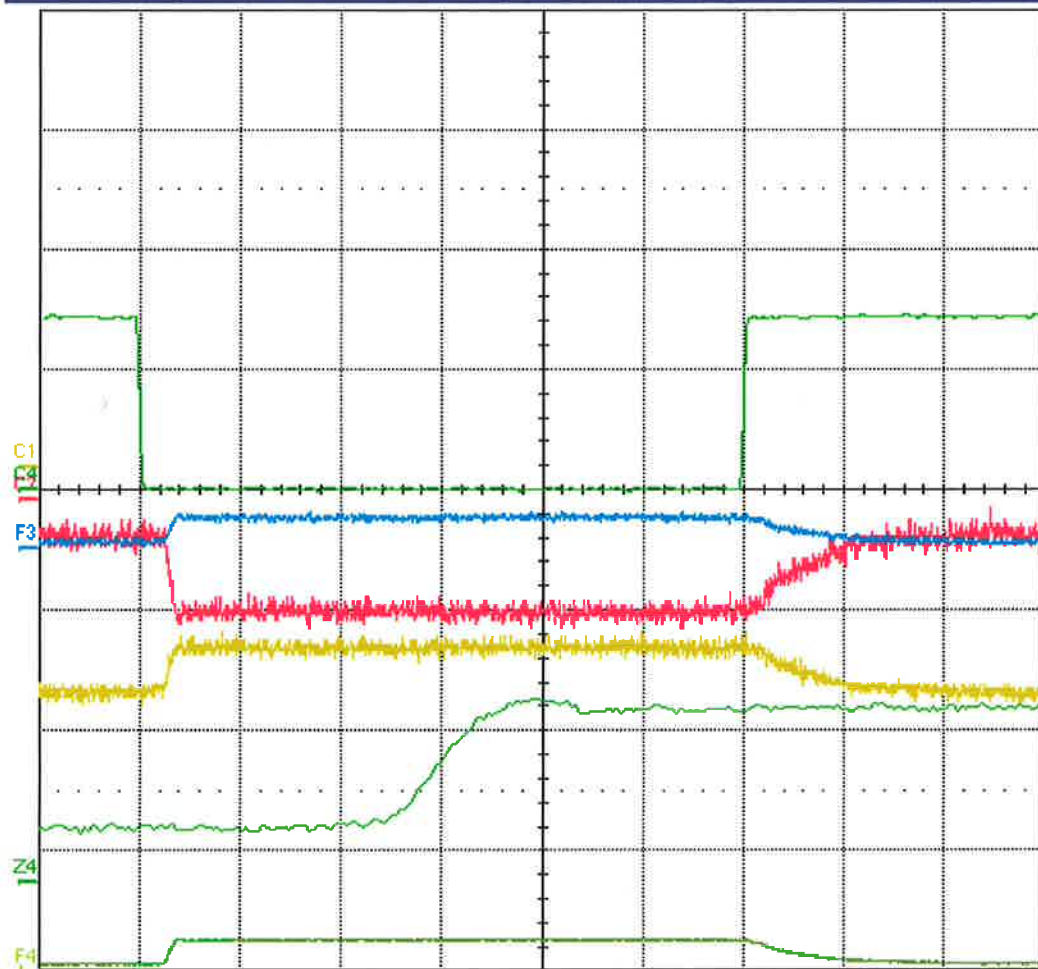


Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-45.58 mV	-29.58 mV	-45.09 mV	-29.23 mV	---	---
mean	-44.7507 mV	-28.8165 mV	-44.7120 mV	-28.8934 mV	---	---
min	-45.76 mV	-29.91 mV	-45.65 mV	-30.21 mV	---	---
max	-43.05 mV	-27.08 mV	-43.45 mV	-27.59 mV	---	---
sdev	769.7 $\mu$ V	815.7 $\mu$ V	636.5 $\mu$ V	691.5 $\mu$ V	---	---
num	11	11	11	11	0	---
status	✓	✓	✓	✓		

C1	C2	C4
DCIM	DCIM	DCIM
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
----- -77.0 mV	----- 1.19 V	----- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
$\Delta y$ 34.0 mV	$\Delta y$ 1.70 V	$\Delta y$ 34.0 mV

Timebase	-2.00 ms	Trigger	Edge/DC
500 $\mu$ s/div	Normal	200 mV	
1.00 MS	200 MS/s	Edge	Negative

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



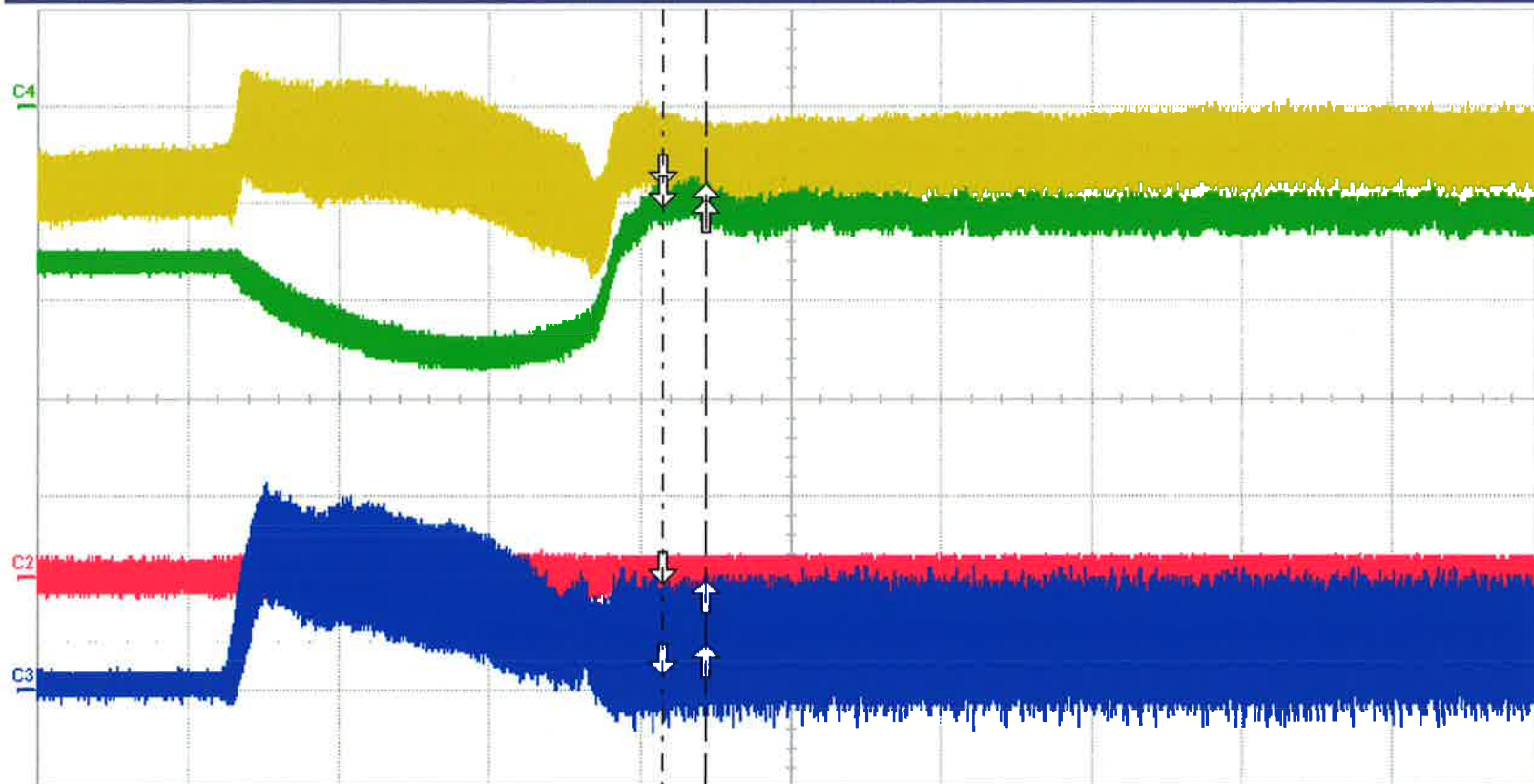
C1	D1	C2	D1	C4	F3	F3 script(...)	F4	<F3>	XY	XF1...	Z4 zoom(...)
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	2.00	200 mV	200 mV	400e-3
38 mV	-16 mV	0 mV	500 $\mu$ s	500 $\mu$ s	22 #	22 #	22 #	22 #	22 #	22 #	22 #

Tbase	-2.00 ms	Trigger	C4 DC
500 ps/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:12:38 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure  
value  
status

P1:mean(C1)  
-86.8 mV

P2:pkpk(C2)  
500 mV

P3:pkpk(C3)  
163 V

P4:mean(C3)  
38.1 V

P5:mean(C4)  
-110.9 V

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ -149.9 mV	↓ -35 mV	↓ -18.1 V	↓ -100.8 V
↑ -164.7 mV	↑ -35 mV	↑ 46.9 V	↑ -97.7 V
Δy -14.8 mV	Δy 0 mV	Δy 28.8 V	Δy 3.1 V

Timebase	-400 μs	Trigger	Ext/10 DC
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

11/11/2019 10:13:39 AM

11-Nov-19  
10:14:13

**1**  
.5 ms  
0.50 V

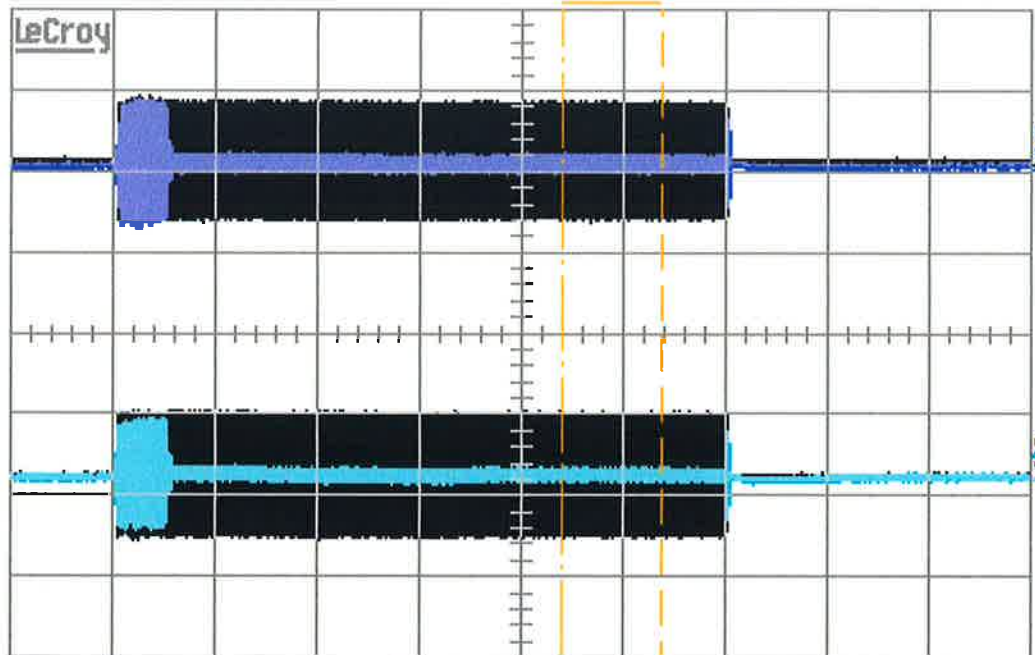
**2**  
.5 ms  
200mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200mV

.5 ms

**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



	5 sweeps:	average	low	high	sigma
rms(1)		247.2mV	246.1	248.4	0.9
rms(2)		15.5mV	14.6	16.0	0.7
rms(3)		264.6mV	263.4	265.7	0.9
rms(4)		12.3mV	11.2	13.2	0.9
phase(1,3)		61.2 °	-131.4	219.5	41.1



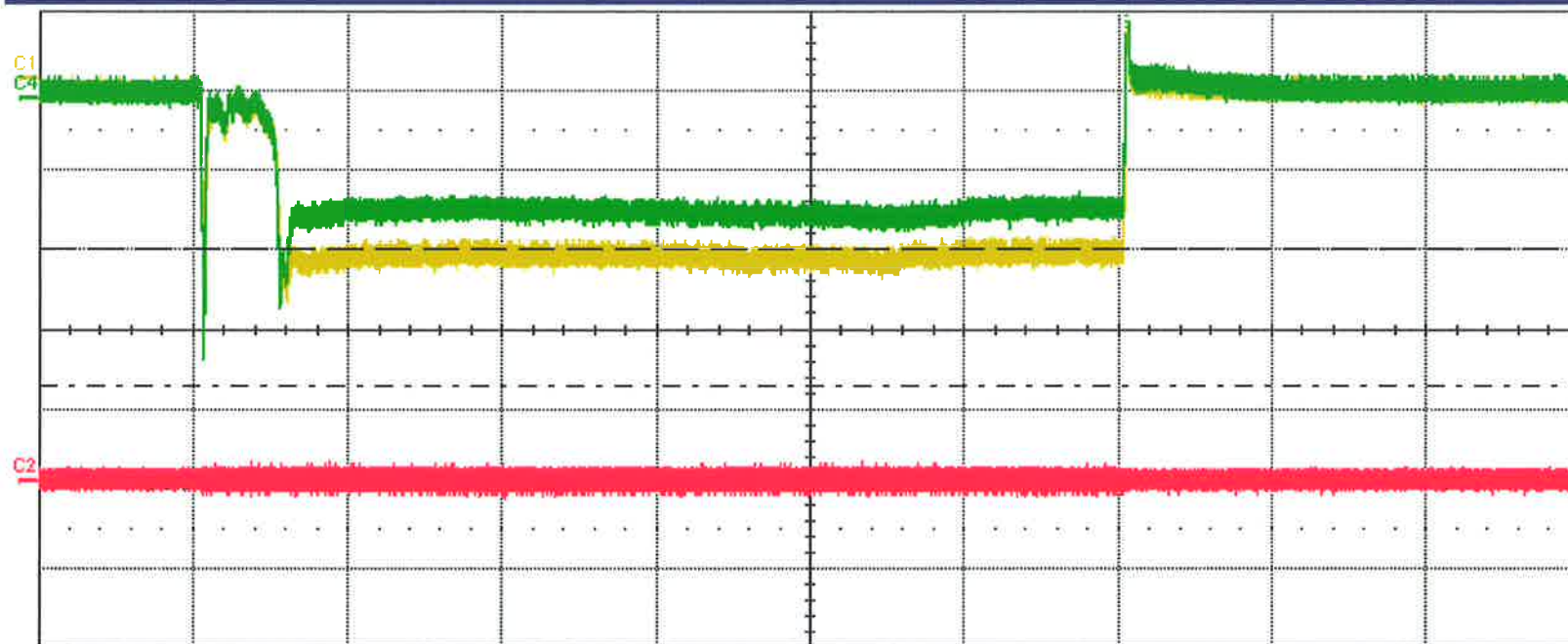
Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-45.14 mV	-29.28 mV	-45.08 mV	-29.03 mV	---	---
mean	-45.3854 mV	-29.3020 mV	-45.2717 mV	-29.2348 mV	---	---
min	-47.01 mV	-30.91 mV	-46.62 mV	-30.81 mV	---	---
max	-43.59 mV	-27.49 mV	-43.35 mV	-27.30 mV	---	---
sdev	1.0124 mV	1.0350 mV	969.7 $\mu$ V	1.0316 mV	---	---
num	9	9	9	9	0	---
status	✓	✓	✓	✓		

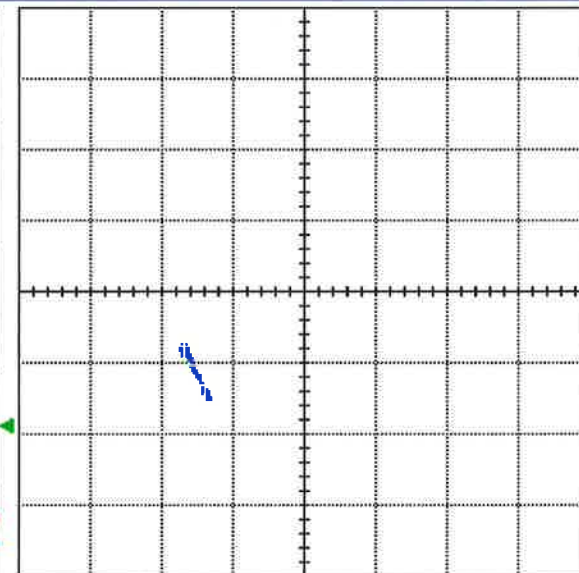
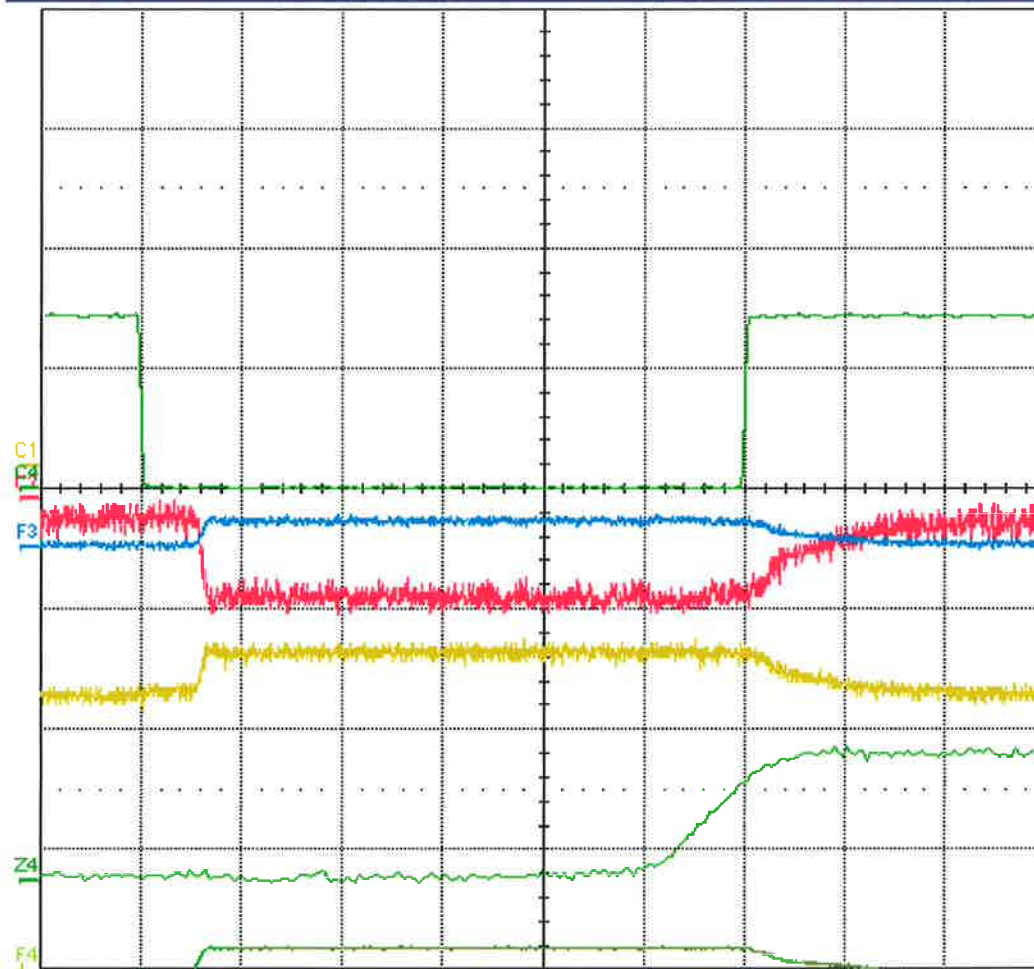
C1	C2	C4
DCIM	DCIM	DCIM
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
---- -77.0 mV	---- 1.19 V	---- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
$\Delta y$ 34.0 mV	$\Delta y$ 1.70 V	$\Delta y$ 34.0 mV

Timebase	-2.00 ms	Trigger	ExtIO DC
	500 $\mu$ s/div	Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

LeCroy

11/11/2019 10:14:02 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



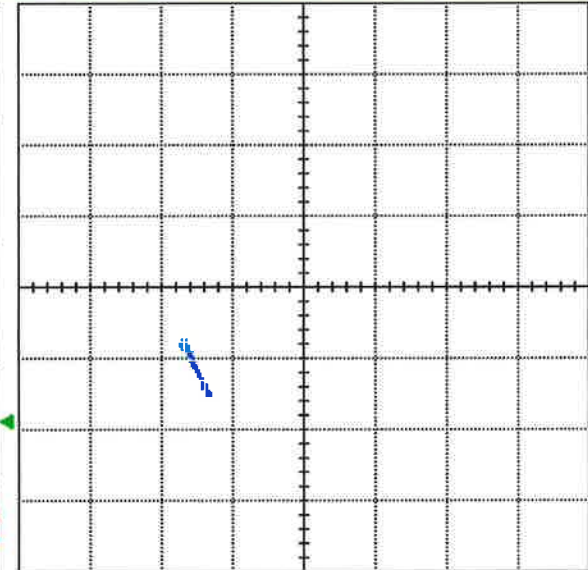
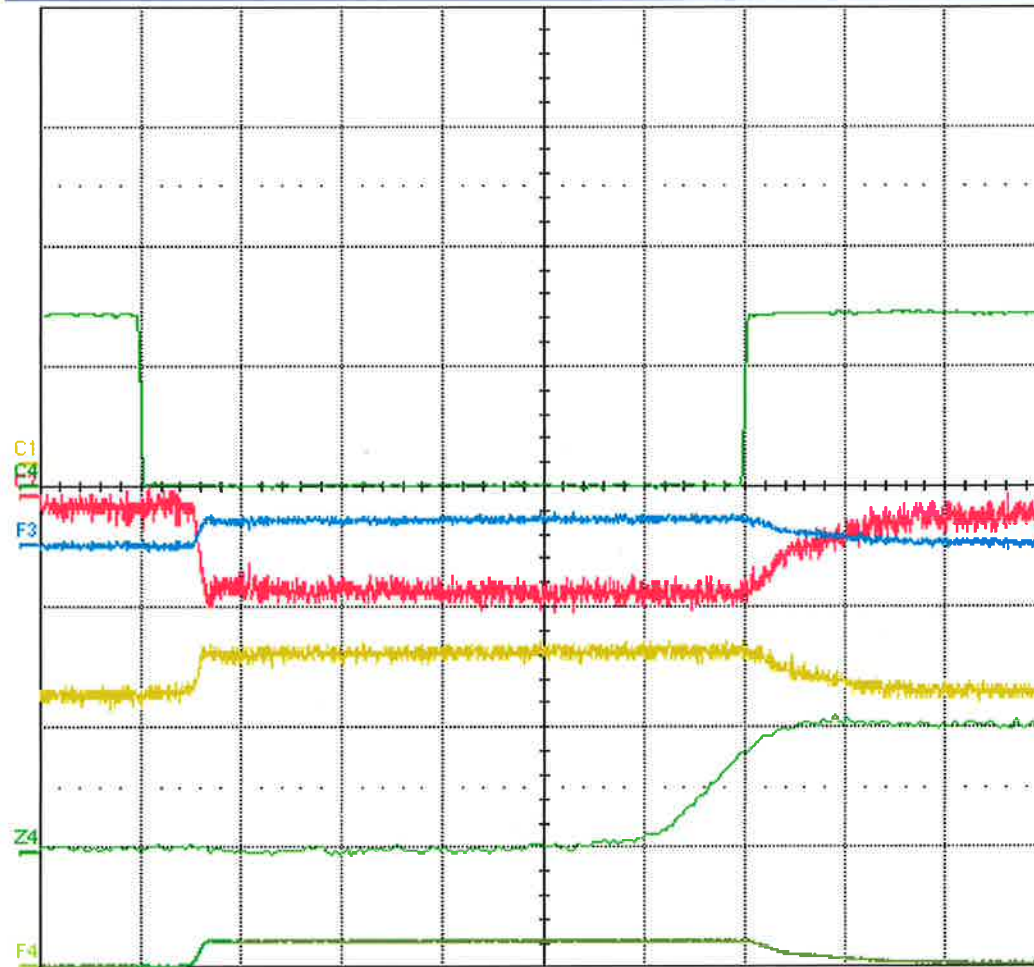
C1	D1	C2	D1	C4	F3	F3 script(...)	F4	<F3>	XY	X11	Z4 zoomC
200 mV	200 mV	200 mV	2.00 V	2.00	2.00	200 mV	2.00	200 mV	200 mV	400e-3	
38 mV	-16 mV	0 mV	500 $\mu$ s	500 $\mu$ s	15 #	15 #	15 #	15 #	15 #	15 #	

Tbase	-2.00 ms	Trigger	C4 DC
500 $\mu$ s/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:14:05 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



C1	D1	C2	D1	C4	F3	F3	script(...)	F4	<F3>	XY	XFL	Z4	zoom(...)
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	200 mV	200 mV	200 mV	200 mV	400e-3	50.0 ps
38 mV	-16 mV	0 mV	500 ps	21 #	21 #	21 #	21 #	21 #	21 #	21 #	21 #	21 #	21 #

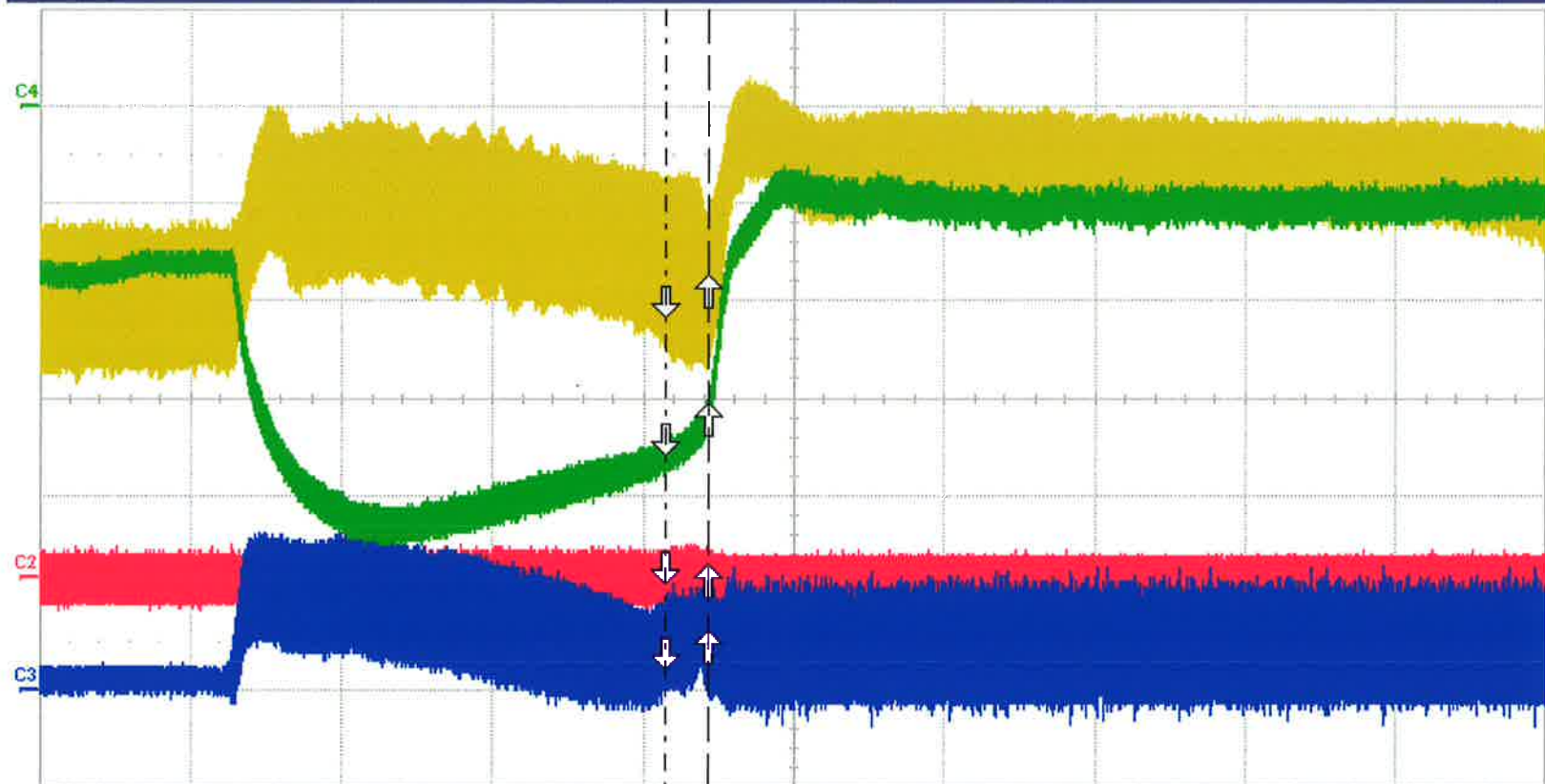
Tbase	-2.00 ms	Trigger	C4 DC
500 ps/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:14:12 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure  
value  
status

P1:mean(C1)  
-147.0 mV ✓

P2:pkpk(C2)  
563 mV ✓

P3:pkpk(C3)  
163 V ✓

P4:mean(C3)  
38.7 V ✓

P5:mean(C4)  
-98.7 V ✓

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V ofst
↓ -431.1 mV	↓ -37 mV	↓ 25.2 V	↓ -355.2 V
↑ -350.0 mV	↑ 119 mV	↑ 59.5 V	↑ -305.3 V
Δy 81.1 mV	Δy 156 mV	Δy 34.3 V	Δy 49.9 V

Timebase	-400 μs	Trigger	Ext/IO DC
1.00 MS	100 μs/div	Normal	200 mV
	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

11/11/2019 10:18:00 AM



11-Nov-19  
10:18:43

**1**  
.5 ms  
0.50 V

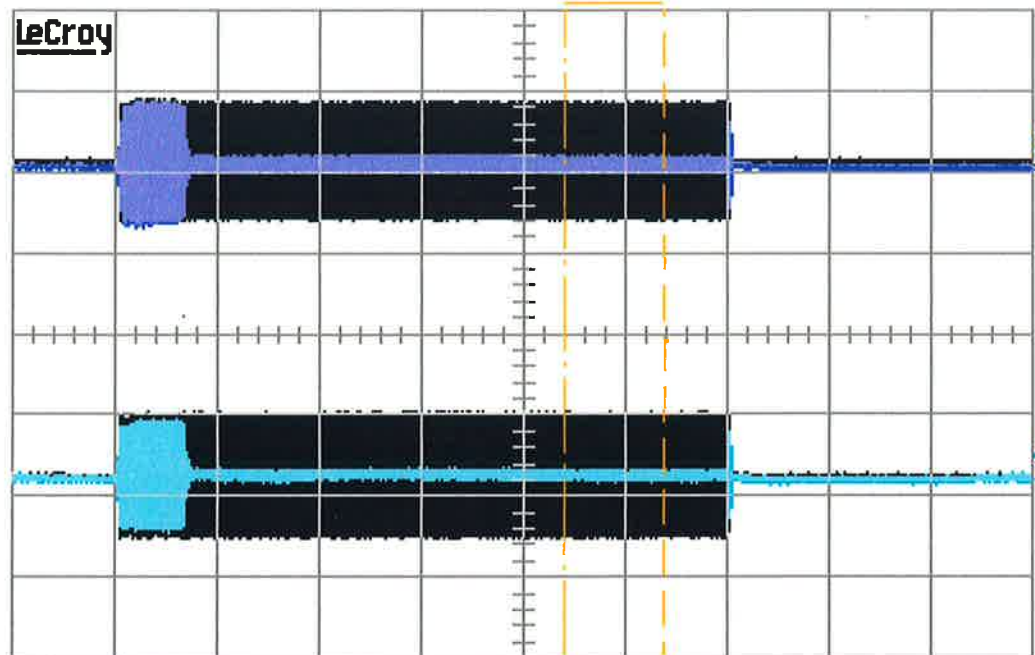
**2**  
.5 ms  
200mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200mV

.5 ms

**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



7 sweeps:    average       low       high       sigma

rms(1)	247.7mV	246.3	248.5	0.7
rms(2)	14.9mV	14.6	15.6	0.4
rms(3)	264.7mV	263.5	265.4	0.7
rms(4)	10.9mV	10.2	12.3	0.8
phase(1,3)	59 °	-131	220	42

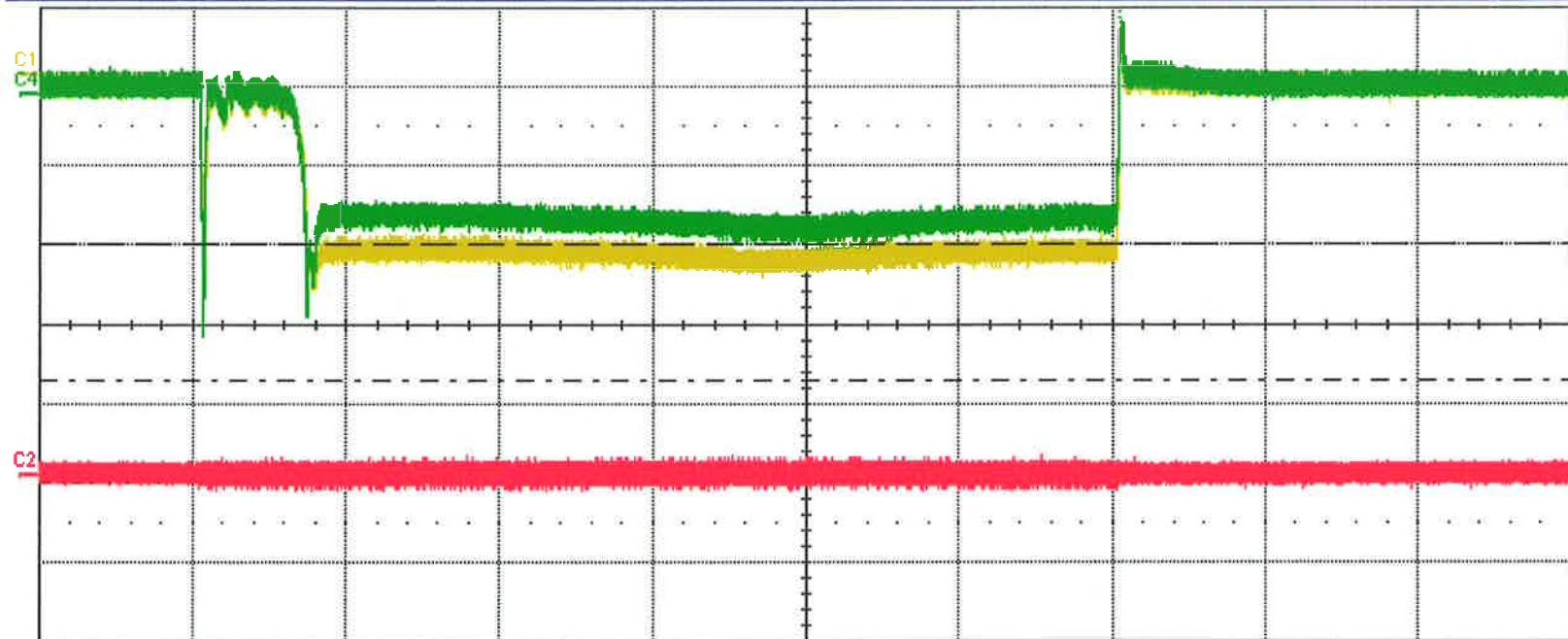


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-46.78 mV	-33.99 mV	-46.25 mV	-33.05 mV	---	---
mean	-25.2920 mV	-14.1015 mV	-25.3123 mV	-14.0975 mV	---	---
min	-49.13 mV	-35.43 mV	-48.57 mV	-35.27 mV	---	---
max	-2.86 mV	4.56 mV	-2.88 mV	4.59 mV	---	---
sdev	20.9767 mV	17.3001 mV	20.9903 mV	17.3057 mV	---	---
num	275	275	275	275	0	---
status	✓	✓	✓	✓		

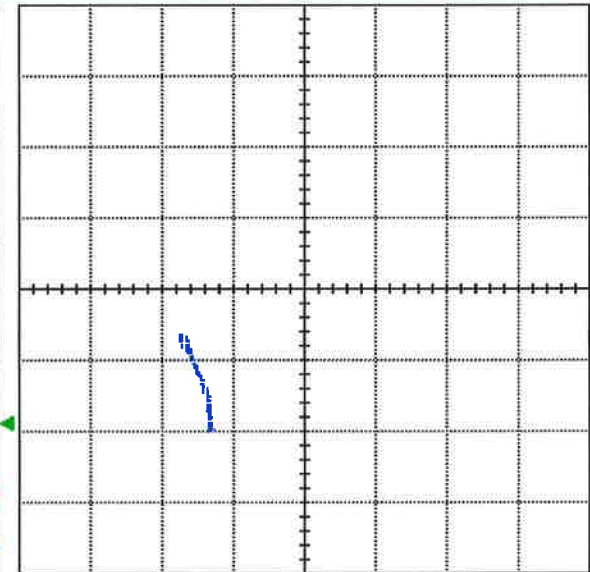
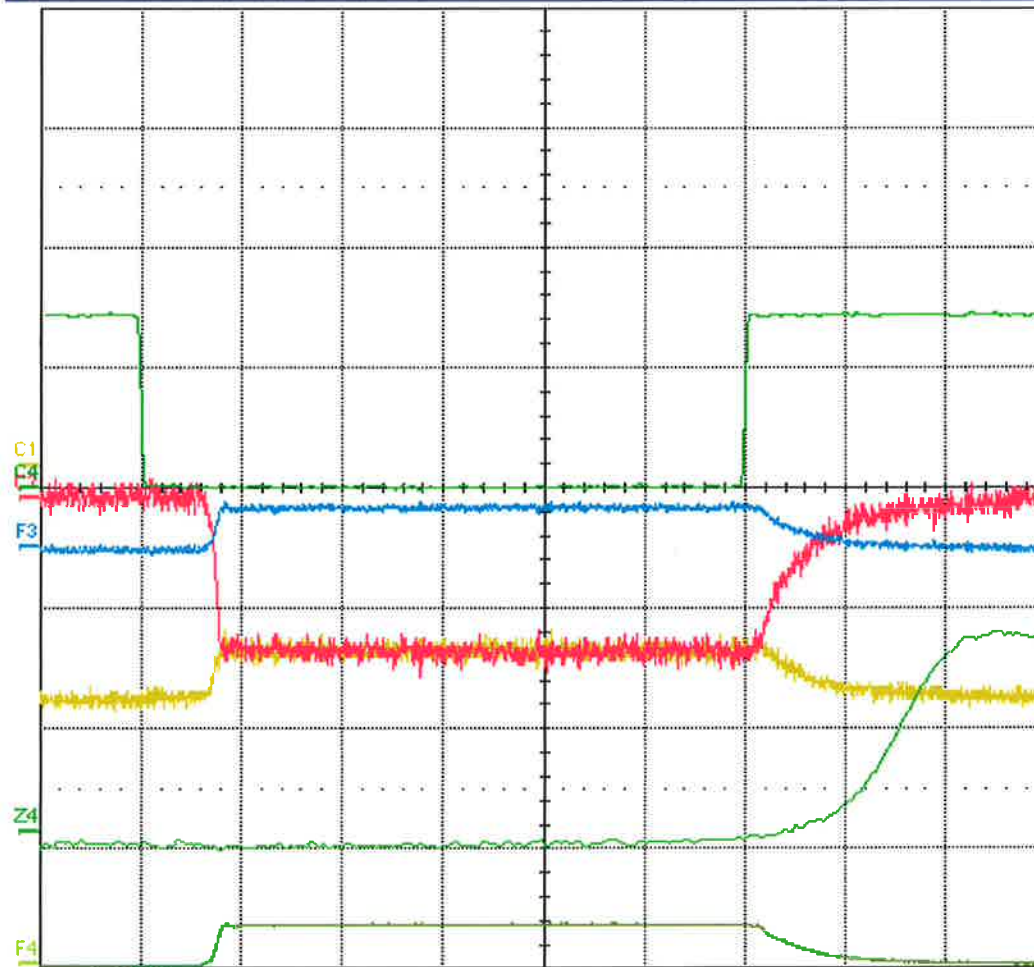
C1	C2	C4
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
---- -77.0 mV	---- 1.19 V	---- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
Δy 34.0 mV	Δy 1.70 V	Δy 34.0 mV

Timebase	-2.00 ms	Trigger	Ext/IO DC
	500 μs/div	Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

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11/11/2019 10:18:33 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



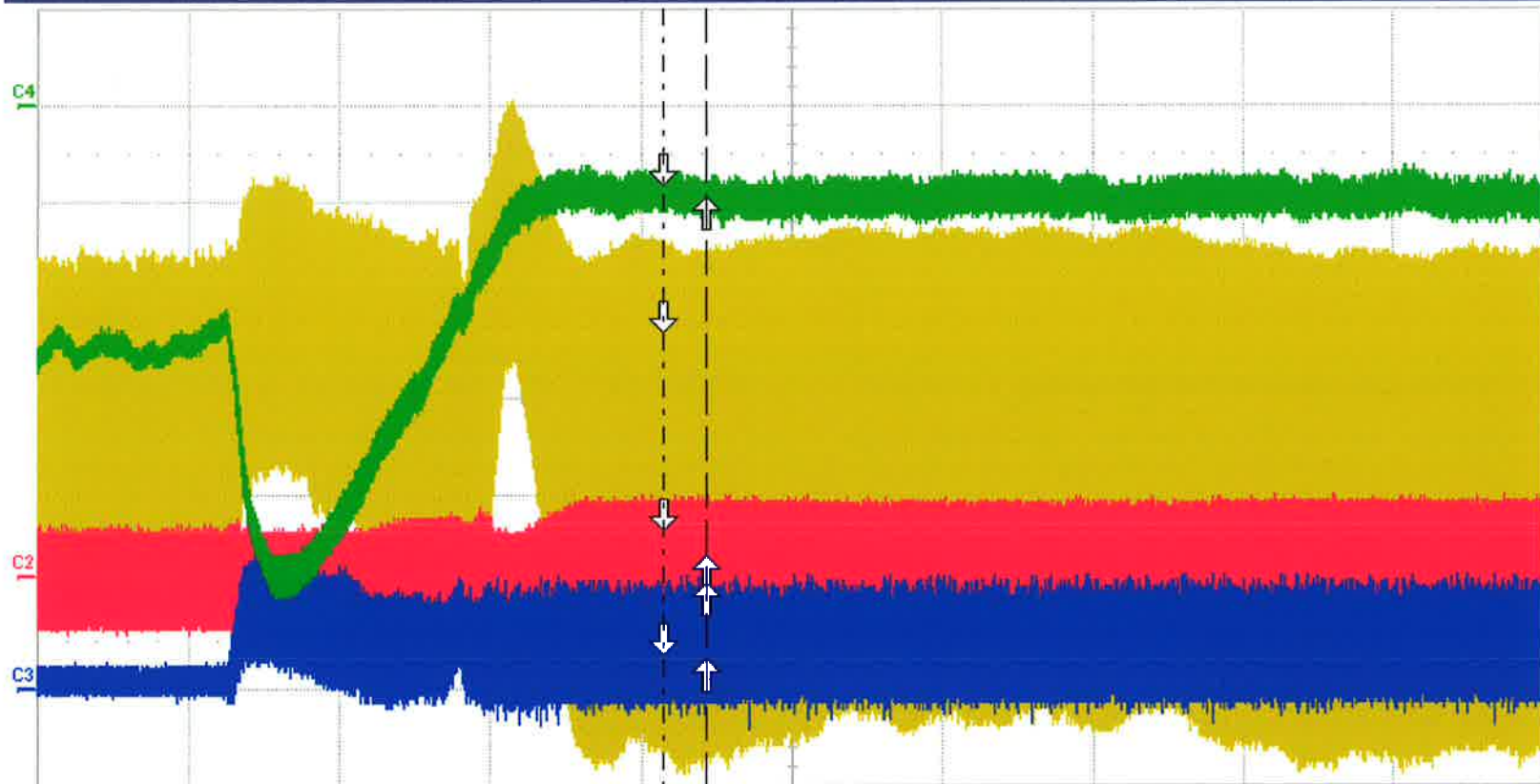
C1	D1	C2	D1	C4	F3	F3	script(...)	F4	<F3>	XY	X:F1...	Z4	zoom(...)
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	2.00	2.00	200 mV	200 mV	400e-3	400e-3
38 mV	-16 mV	0 mV	500 $\mu$ s	500 $\mu$ s	25 #	25 #	25 #	25 #	25 #	25 #	25 #	25 #	25 #

Tbase	-2.00 ms	Trigger	C4 DC
500 $\mu$ s/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

LeCroy

11/11/2019 10:18:45 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



**Measure**  
value  
status

P1:mean(C1)

-821.9 mV

P2:pkpk(C2)

1.69 V

P3:pkpk(C3)

156 V

P4:mean(C3)

39.3 V

P5:mean(C4)

-94.8 V

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ -461.3 mV	↓ 498 mV	↓ 37.5 V	↓ -78.8 V
↑ -927.4 mV	↑ -85 mV	↑ 31.1 V	↑ -94.4 V
Δy -466.1 mV	Δy -583 mV	Δy -6.4 V	Δy -15.6 V

Timebase	-400 μs	Trigger	Est/10 DC
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs

X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

11/11/2019 10:20:26 AM



11-Nov-19  
10:21:05

**1**  
.5 ms  
0.50 V

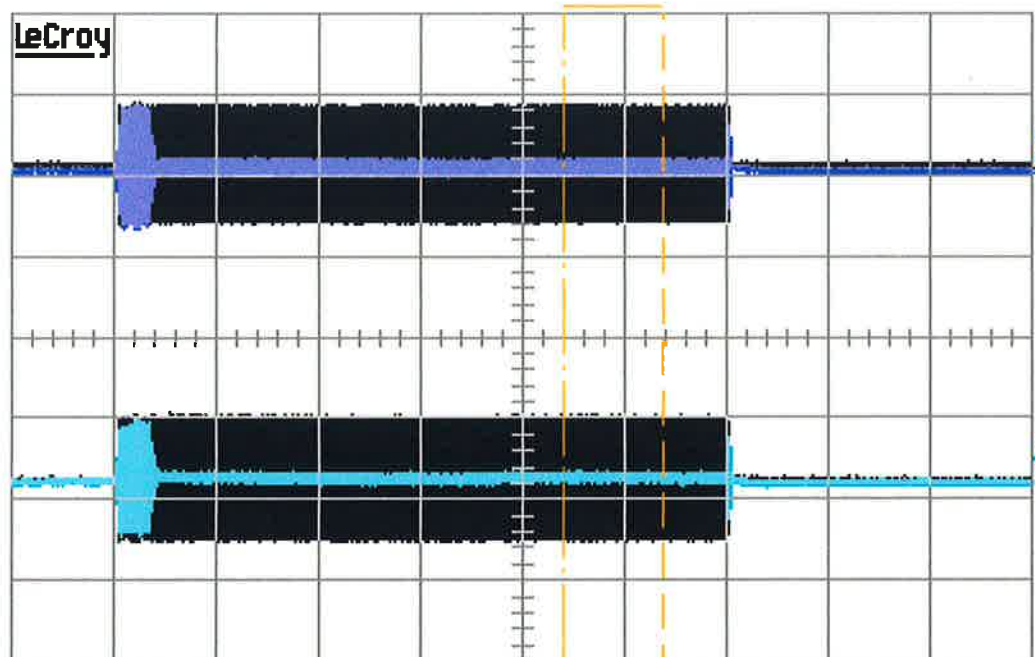
**2**  
.5 ms  
200mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200mV

.5 ms

**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



6 sweeps:

	average	low	high	sigma
rms( <b>1</b> )	247.3mV	245.6	248.6	1.2
rms( <b>2</b> )	14.9mV	13.0	16.2	1.1
rms( <b>3</b> )	264.3mV	262.7	265.4	1.0
rms( <b>4</b> )	10.6mV	7.5	12.5	2.0
phase( <b>1,3</b> )	63.0 °	-129.6	220.1	39.3

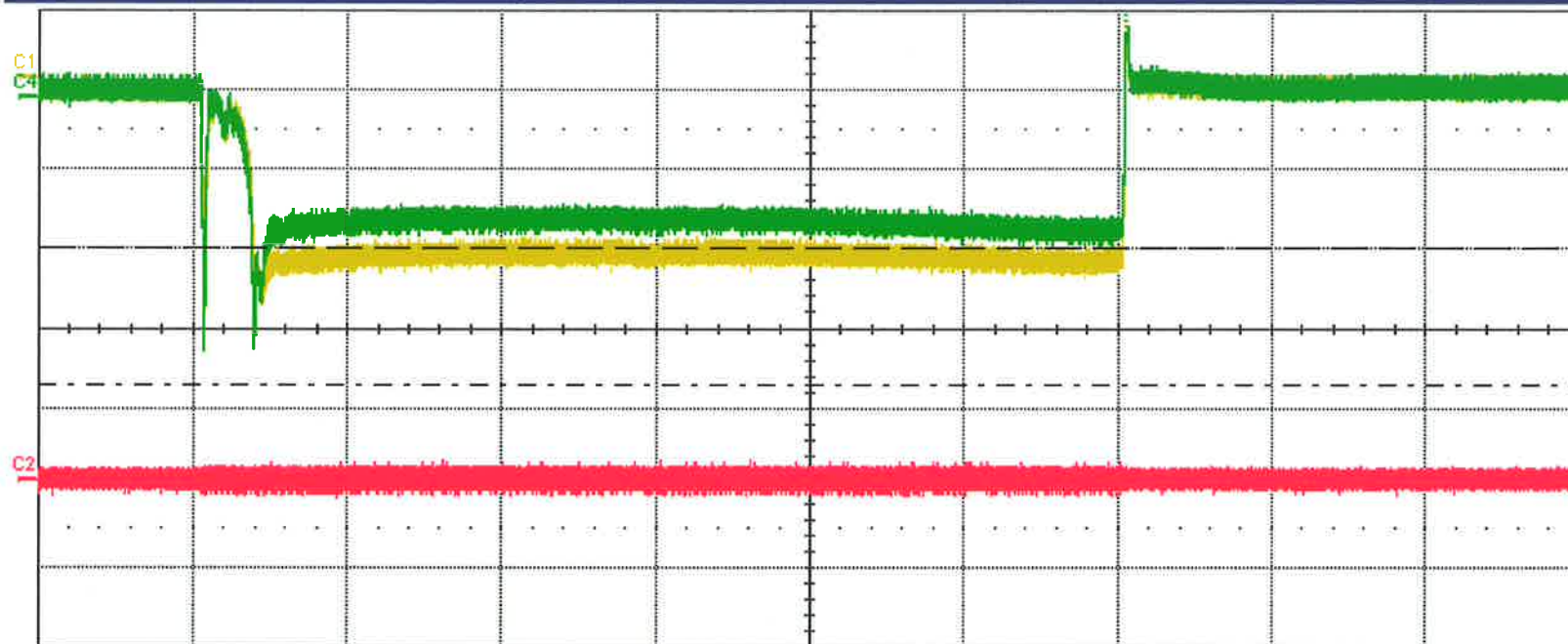


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-44.39 mV	-31.05 mV	-44.22 mV	-30.78 mV	---	---
mean	-41.9957 mV	-29.2438 mV	-42.1745 mV	-29.4705 mV	---	---
min	-47.11 mV	-33.46 mV	-47.35 mV	-33.84 mV	---	---
max	-2.88 mV	2.14 mV	-2.95 mV	2.08 mV	---	---
sdev	12.3935 mV	9.9489 mV	12.4356 mV	10.0193 mV	---	---
num	11	11	11	11	0	---
status	✓	✓	✓	✓		

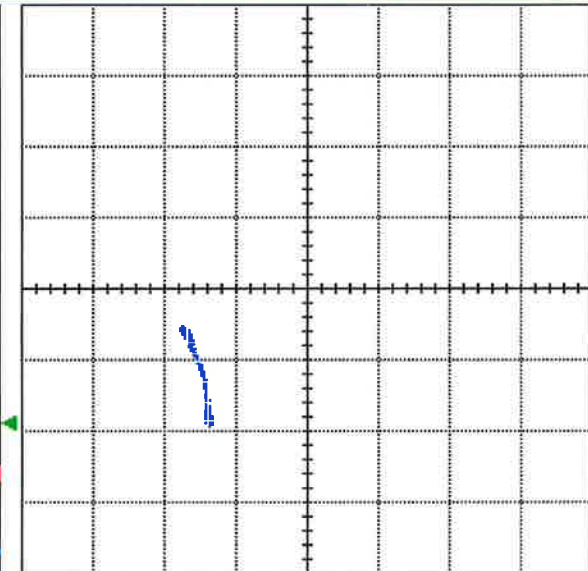
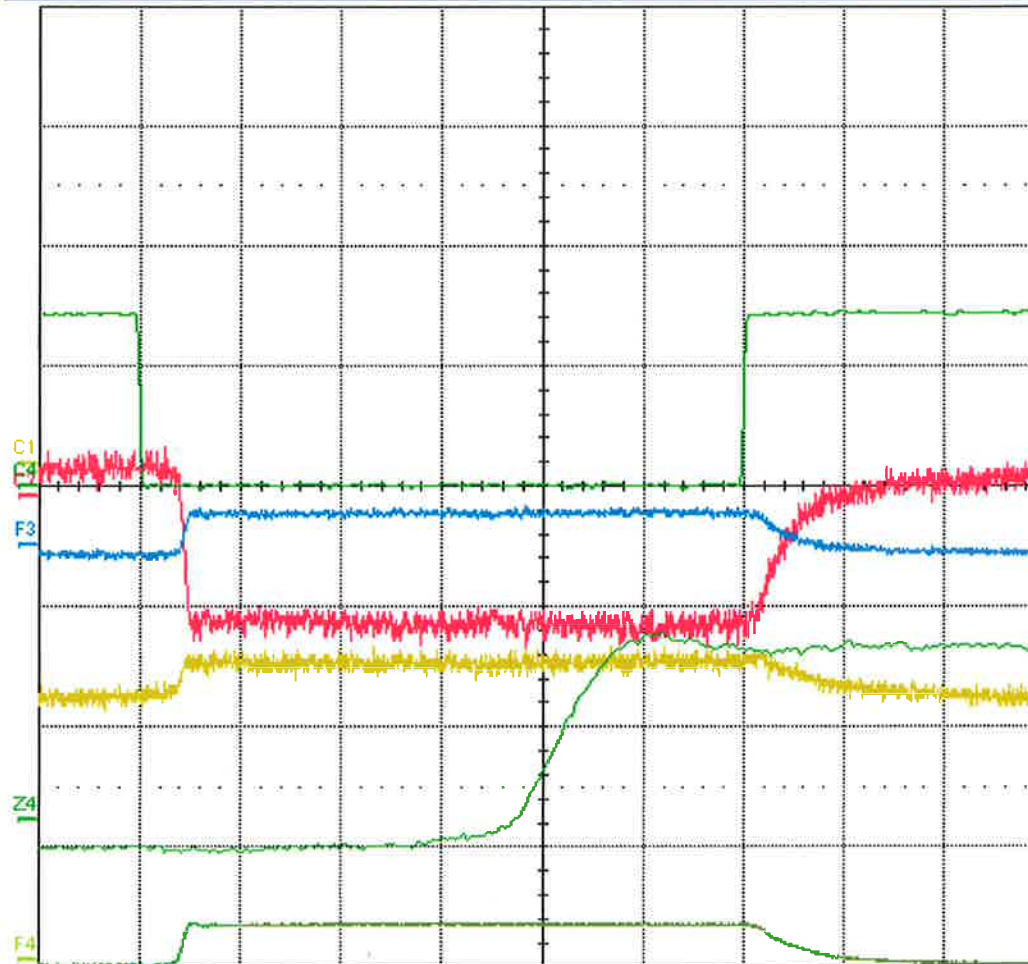
C1	C2	C4
DCIM	DCIM	DCIM
20.0 mV/div	1.00 V/div	20.0 mV/div
63.00 mV ofst	-1.890 V ofst	58.00 mV ofst
---- -77.0 mV	---- 1.19 V	---- -72.0 mV
----- -43.0 mV	----- 2.89 V	----- -38.0 mV
Δy 34.0 mV	Δy 1.70 V	Δy 34.0 mV

Timebase	-2.00 ms	Trigger	Ext/10 DC
	500 ps/div	Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

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11/11/2019 10:20:55 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



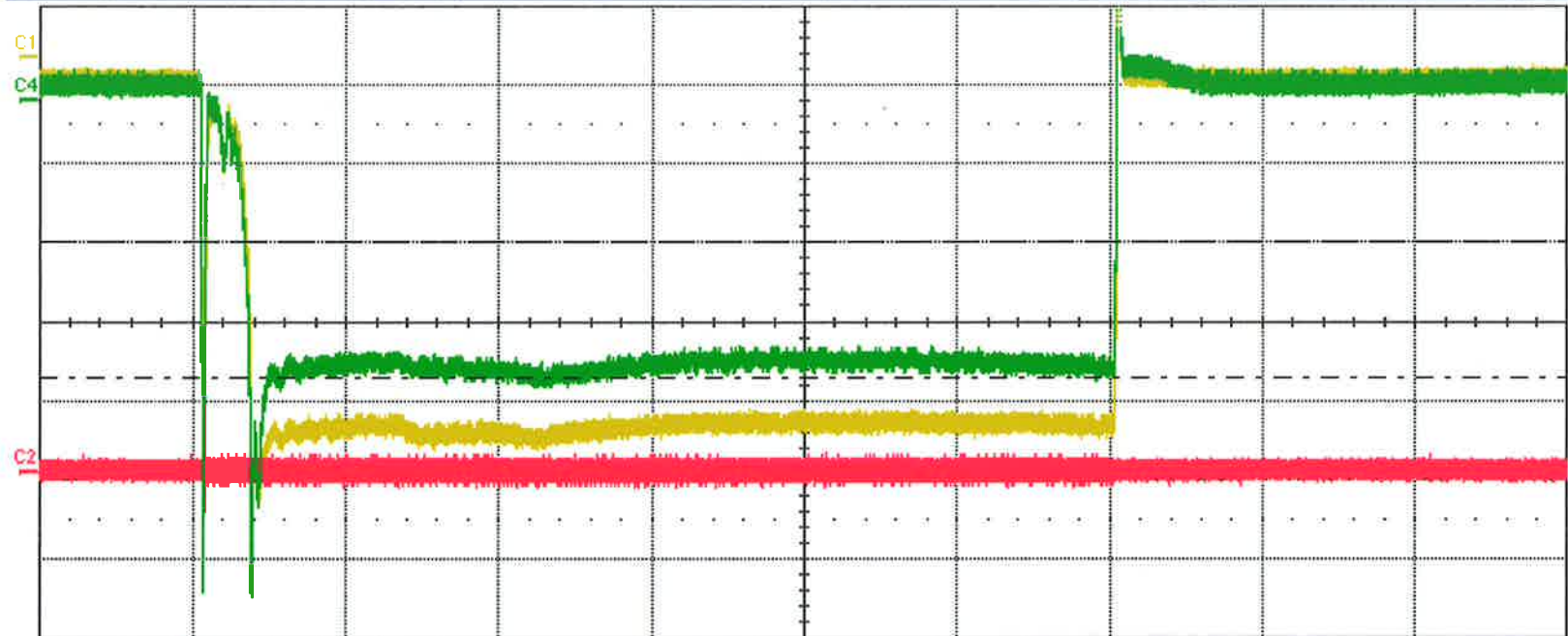
C1	D1	C2	D1	C4	F3 script(...)	F4	<F3>	XY	XF1	Z4 zoom(...)
200 mV	200 mV	200 mV	2.00	2.00 V	2.00	2.00	200 mV	200 mV	400e-3	
38 mV	-16 mV	0 mV	500 ps	500 ps	21 #	21 #	21 #	21 #	21 #	

Tbase	-2.00 ms	Trigger	C4 DC
500 ps/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

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11/11/2019 10:21:02 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-46.17 mV	-32.85 mV	-46.41 mV	-33.04 mV	---	---
mean	-46.5434 mV	-33.3128 mV	-46.2037 mV	-33.0929 mV	---	---
min	-48.01 mV	-35.04 mV	-47.30 mV	-34.31 mV	---	---
max	-45.44 mV	-32.63 mV	-44.90 mV	-31.92 mV	---	---
sdev	1.0820 mV	838.8 $\mu$ V	990.6 $\mu$ V	730.4 $\mu$ V	---	---
num	3	6	3	6	0	---
status	✓	✓	✓	✓	---	---

C1	C2	C4
DCIM	DCIM	DCIM
10.0 mV/div	1.00 V/div	10.0 mV/div
33.50 mV ofst	-1.890 V ofst	28.00 mV ofst
---- -40.5 mV	---- 1.19 V	---- -35.0 mV
---- -23.5 mV	---- 2.89 V	---- -18.0 mV
$\Delta y$ 17.0 mV	$\Delta y$ 1.70 V	$\Delta y$ 17.0 mV

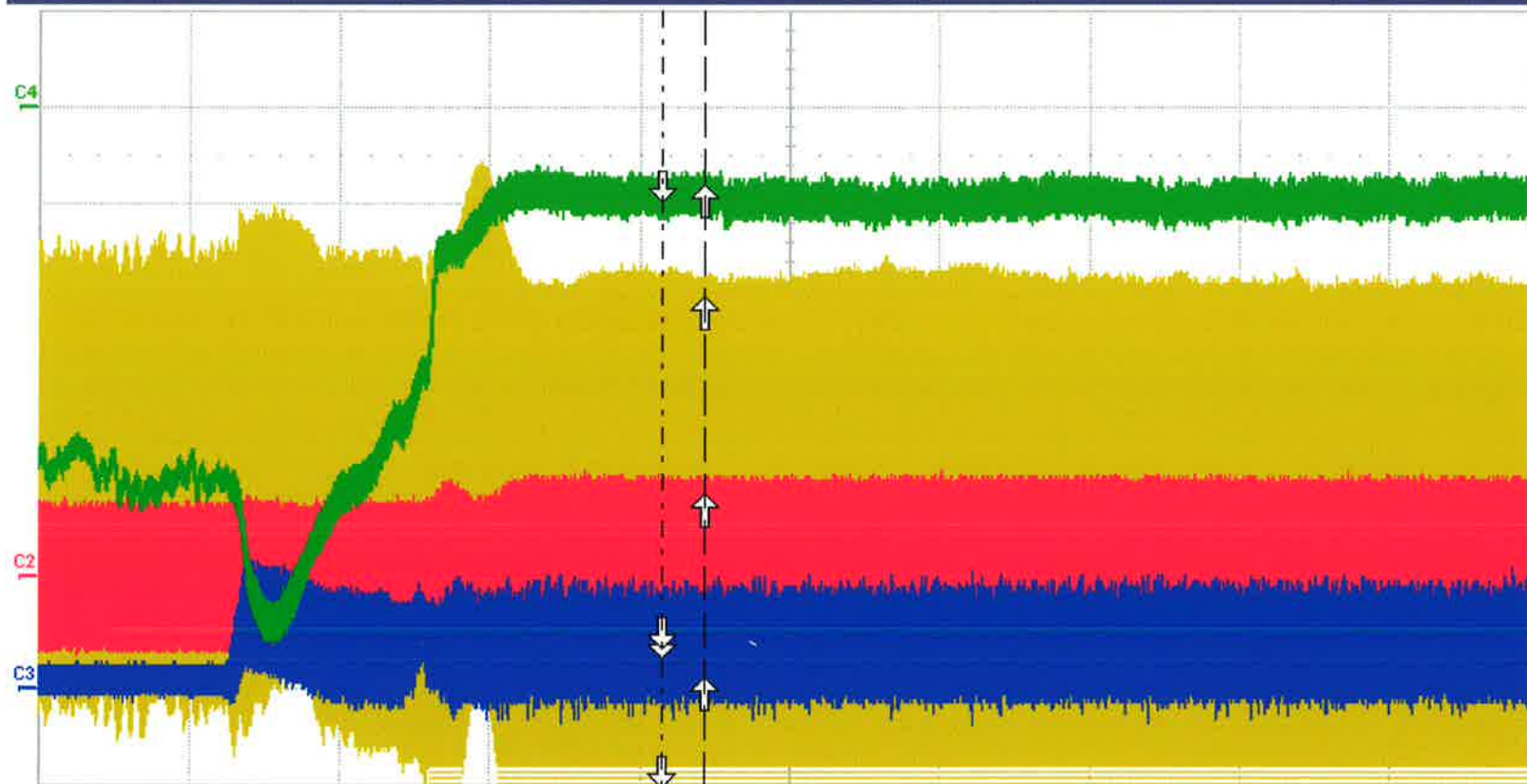
Timebase	-2.00 ms	Trigger	Ext/IO DC
500 $\mu$ s/div	Normal	200 mV	
1.00 MS	200 MS/s	Edge	Negative

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11/11/2019 10:21:25 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



**Measure**  
value  
status

P1:mean(C1)  
-984.8 mV  
↓

P2:pkpk(C2)  
2.13 V  
✓

P3:pkpk(C3)  
153 V  
✓

P4:mean(C3)  
39.9 V  
✓

P5:mean(C4)  
-93.5 V  
✓

P6:---

C1	C2	C3	C4
DCIM	DCIM	DCIM	DCIM
200 mV/div	1.00 V/div	100 V/div	100 V/div
600.0 mV ofst	-1.840 V ofst	-300.0 V ofst	299.0 V offset
↓ ---	↓ -808 mV	↓ 43.8 V	↓ -95.0 V
↑ -393.3 mV	↑ 834 mV	↑ 11.3 V	↑ -81.9 V
Δy ---	Δy 1.642 V	Δy -32.5 V	Δy 13.1 V

Timebase	-400 μs	Trigger	Ext/10 DC
	100 μs/div	Normal	200 mV
1.00 MS	1.0 GS/s	Edge	Positive

X1= 314.260 μs ΔX= 29.060 μs  
X2= 343.320 μs 1/ΔX= 34.412 kHz

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11/11/2019 10:22:20 AM

11-Nov-19  
10:23:11

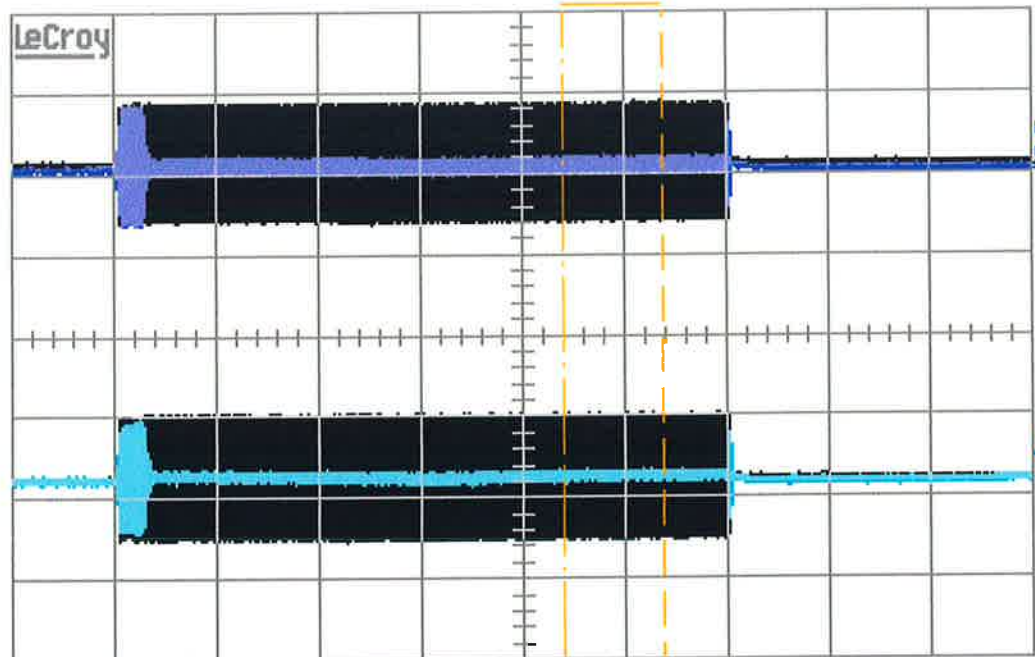
**1**  
.5 ms  
0.50 V

**2**  
.5 ms  
200mV

**3**  
.5 ms  
0.50 V

**4**  
.5 ms  
200mV

.5 ms  
**1** .5 V AC  
**2** .2 V AC  
**3** .5 V AC  
**4** .2 V AC



6 sweeps:

	average	low	high	sigma
rms( <b>1</b> )	249.0mV	248.0	250.2	0.9
rms( <b>2</b> )	15.0mV	14.6	15.3	0.2
rms( <b>3</b> )	266.1mV	265.2	267.4	0.8
rms( <b>4</b> )	11.4mV	10.1	12.1	0.8
phase( <b>1,3</b> )	59.1 °	-132.6	220.2	38.2

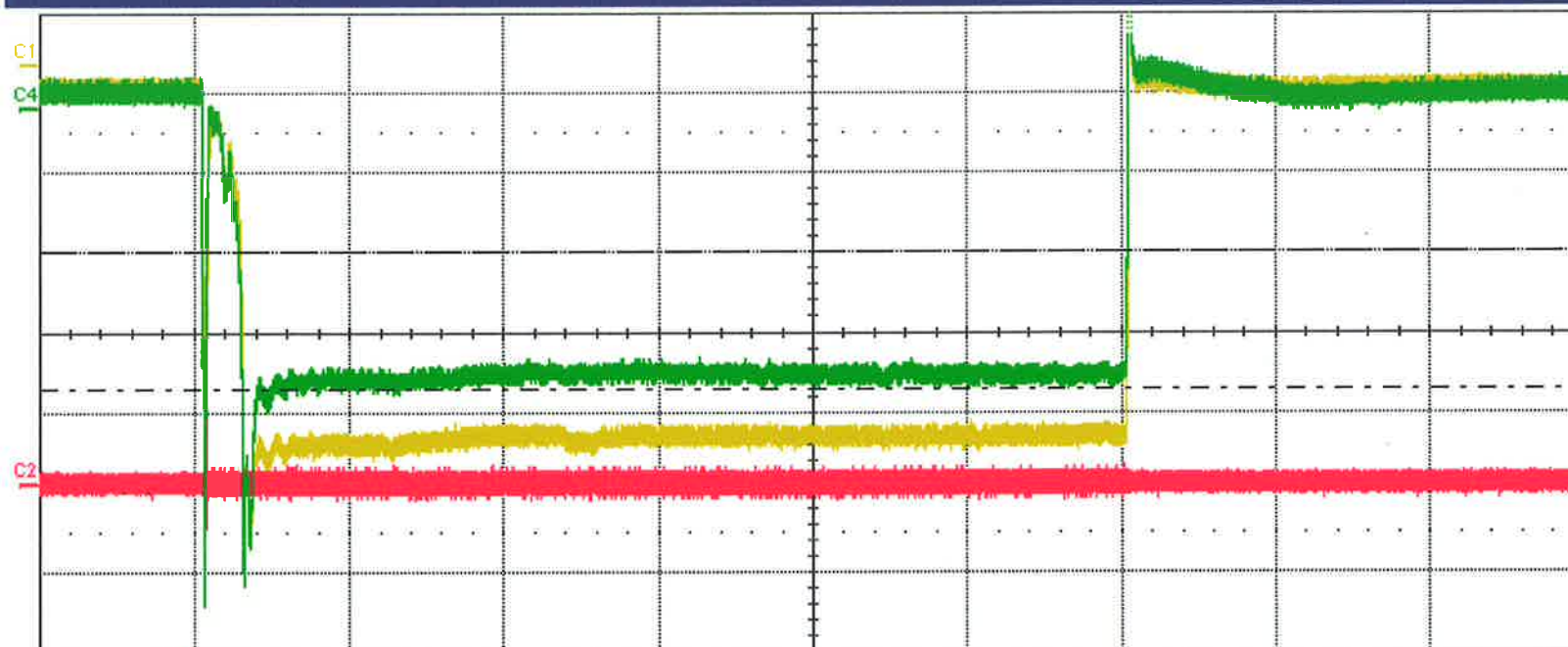


Ext10 DC 0.60 V 1MΩ

20 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-46.45 mV	-33.22 mV	-46.51 mV	-33.15 mV	---	---
mean	-46.6673 mV	-33.3638 mV	-46.4728 mV	-33.1574 mV	---	---
min	-48.48 mV	-35.37 mV	-48.23 mV	-35.09 mV	---	---
max	-45.40 mV	-31.91 mV	-45.19 mV	-31.74 mV	---	---
sdev	798.9 $\mu$ V	970.0 $\mu$ V	993.8 $\mu$ V	1.0192 mV	---	---
num	10	10	10	10	0	---
status	✓	✓	✓	✓	---	---

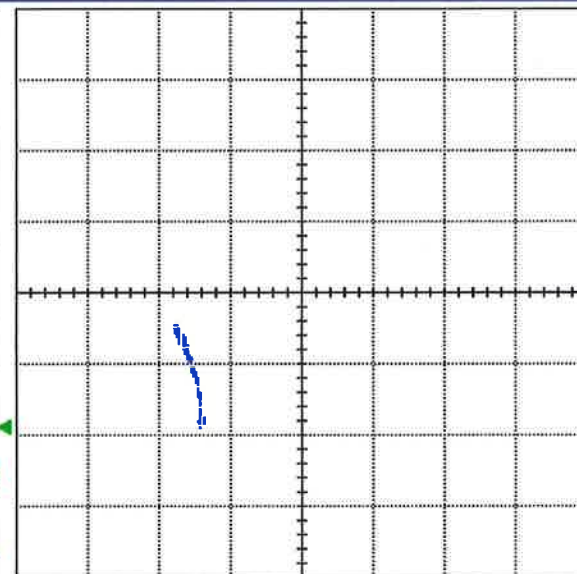
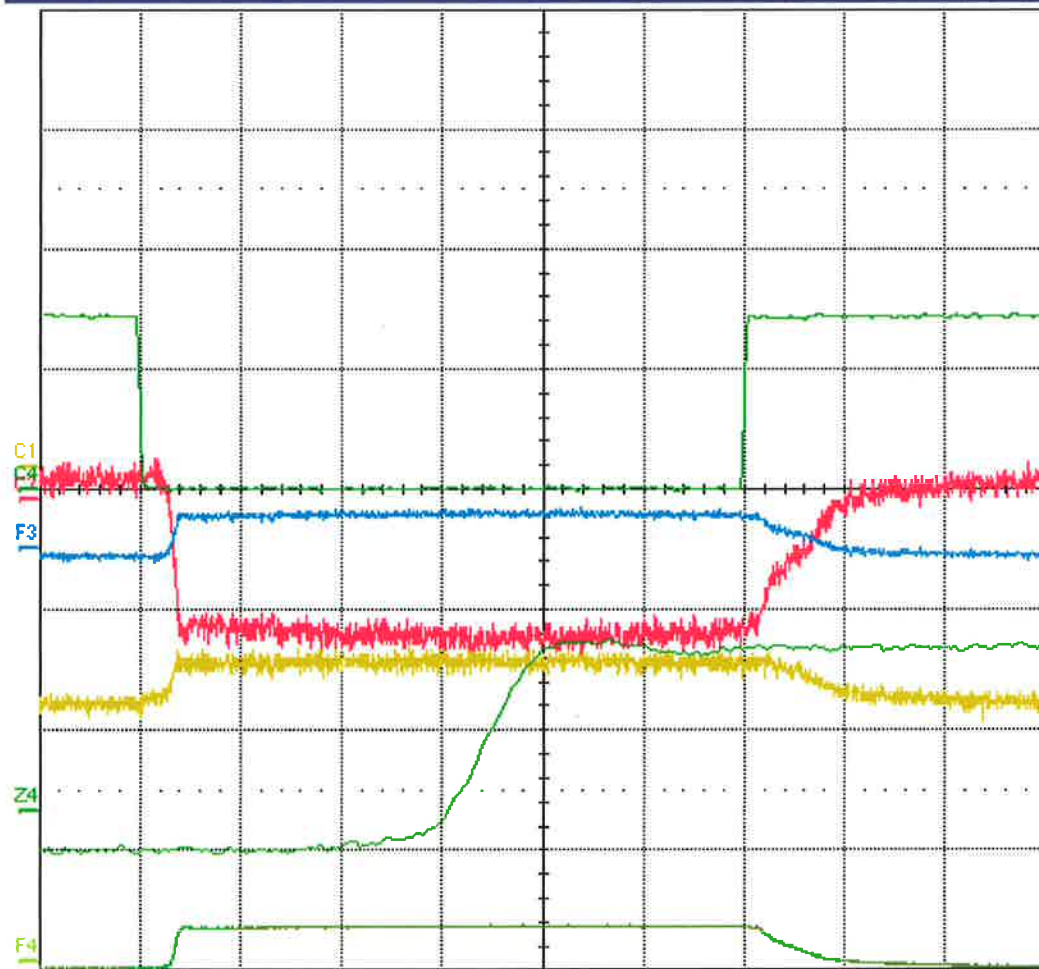
C1	C2	C4
DCIM	DCIM	DCIM
10.0 mV/div	1.00 V/div	10.0 mV/div
33.50 mV ofst	-1.890 V ofst	28.00 mV ofst
---- -40.5 mV	---- 1.19 V	---- -35.0 mV
----- -23.5 mV	----- 2.89 V	----- -18.0 mV
$\Delta y$ 17.0 mV	$\Delta y$ 1.70 V	$\Delta y$ 17.0 mV

Timebase	-2.00 ms	Trigger	Ext/10 DC
500 $\mu$ s/div	Normal	200 mV	
1.00 MS	200 MS/s	Edge	Negative

LeCroy

11/11/2019 10:23:01 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



C1	D1	C2	D1	C4	F1 D1	F3	script...	F4	<F3>	XY	XF1	Z4	zoom...
200 mV	200 mV	200 mV	200 mV	2.00 V	2.00	2.00	2.00	2.00	2.00	200 mV	200 mV	400e-3	
38 mV	-16 mV	0 mV	500 ps	500 ps	24 #	24 #	24 #	24 #	24 #	24 #	24 #	24 #	

Tbase	-2.00 ms	Trigger	C4 DC
500 ps/div	Normal	1.00 V	
2.50 kS	500 kS/s	Edge	Negative

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