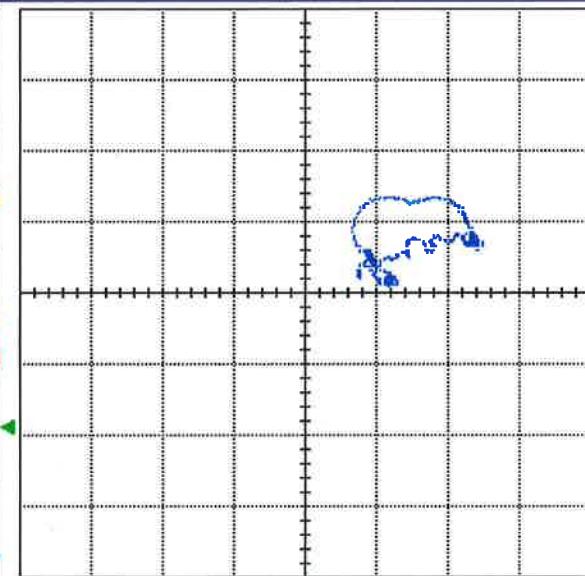
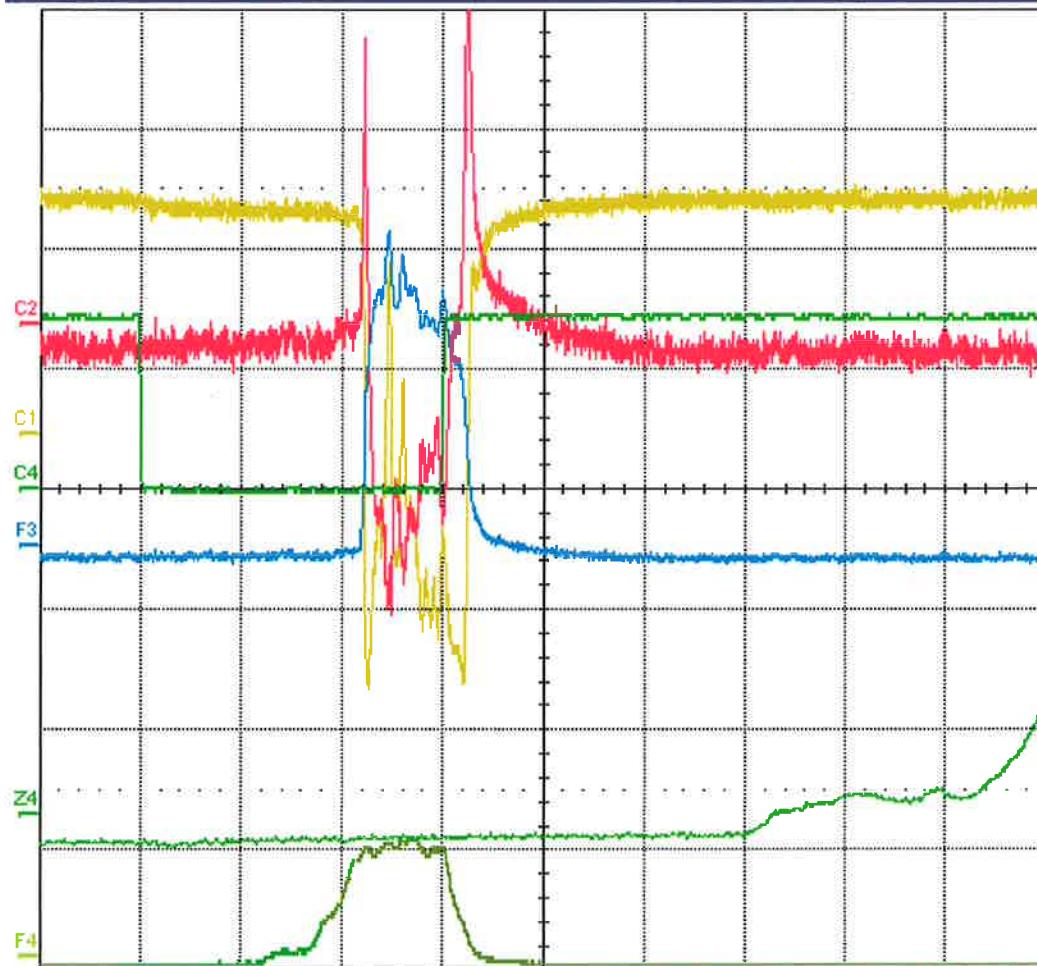


LeCroy

11/11/2019 11:18:53 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

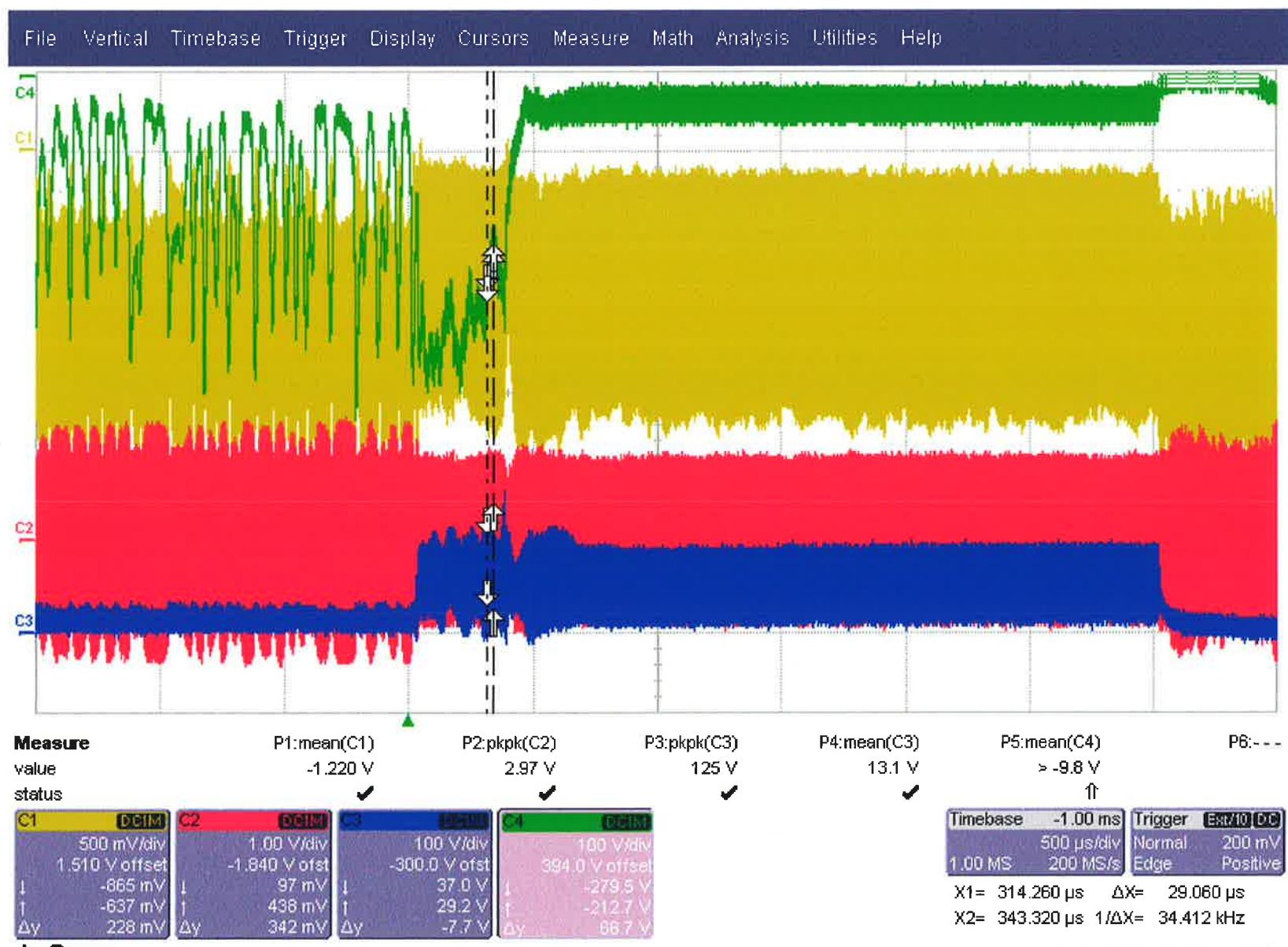


C1 D1 200 mV 92 mV	C2 D1 200 mV 274 mV	C4 D1 2.00 V 0.0 mV	F3 script() 2.00 1.0 ms 26 #	F4 XF1 200 mV 200 mV 26 #	Z4 zoom() 600e-3 200 μs 26 #
-----------------------------	------------------------------	------------------------------	---------------------------------------	---------------------------------------	---------------------------------------

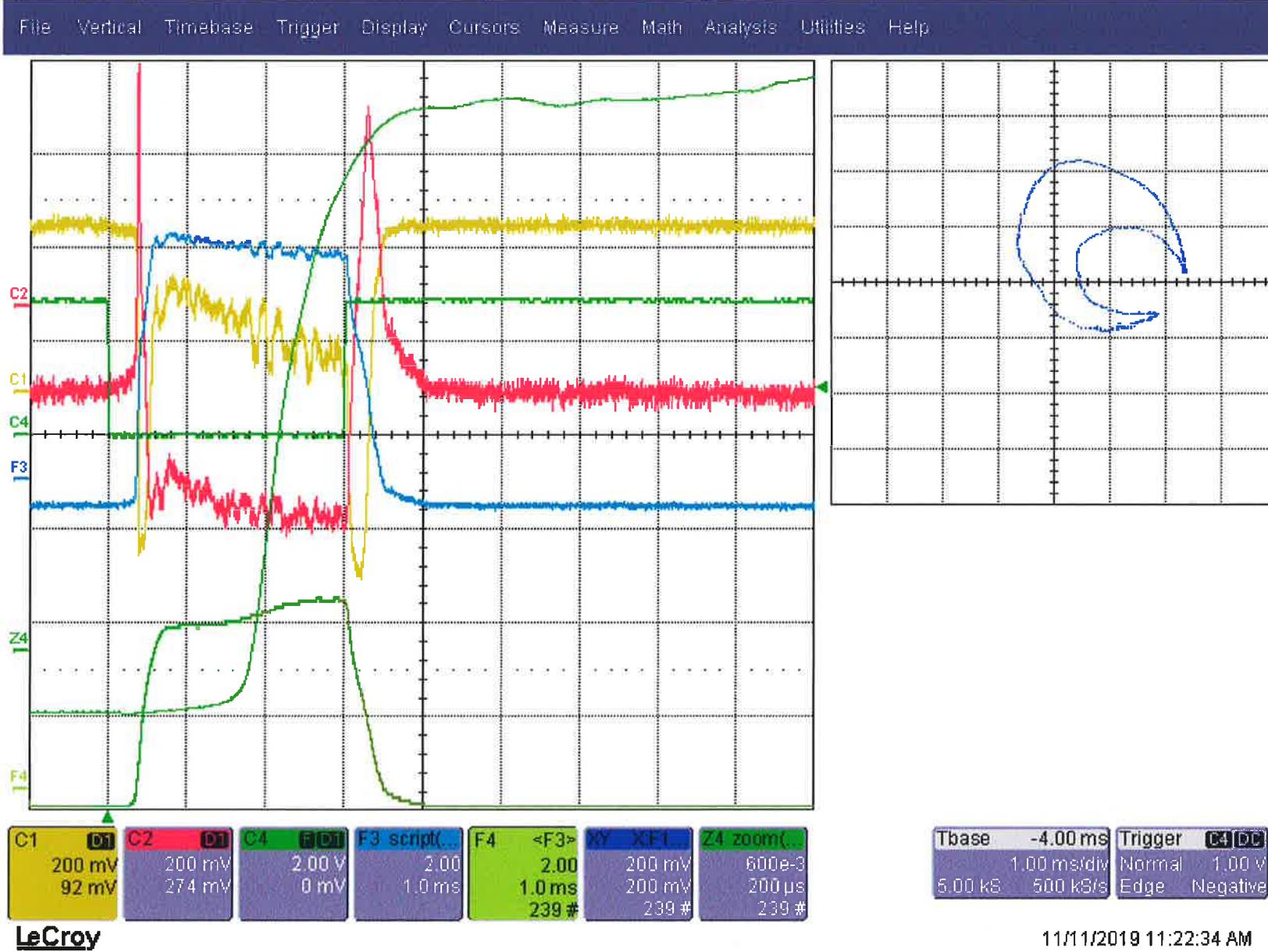
Tbase -4.00 ms 5.00 kS	-4.00 ms 1.00 ms/div 500 kS/s	Trigger C4 DC Normal Edge	1.00 V 1.00 V Negative
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LeCroy

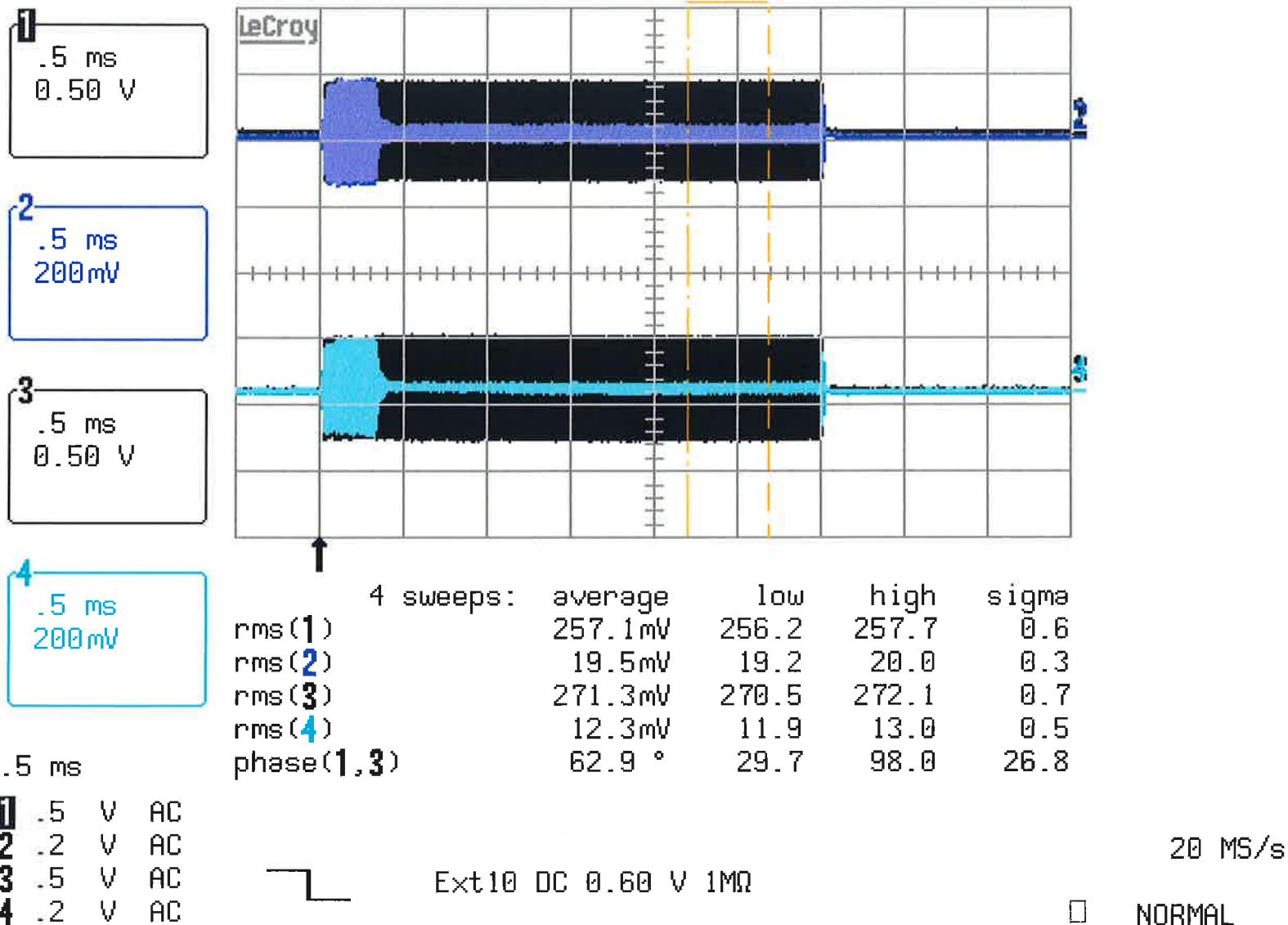
11/11/2019 11:18:58 AM

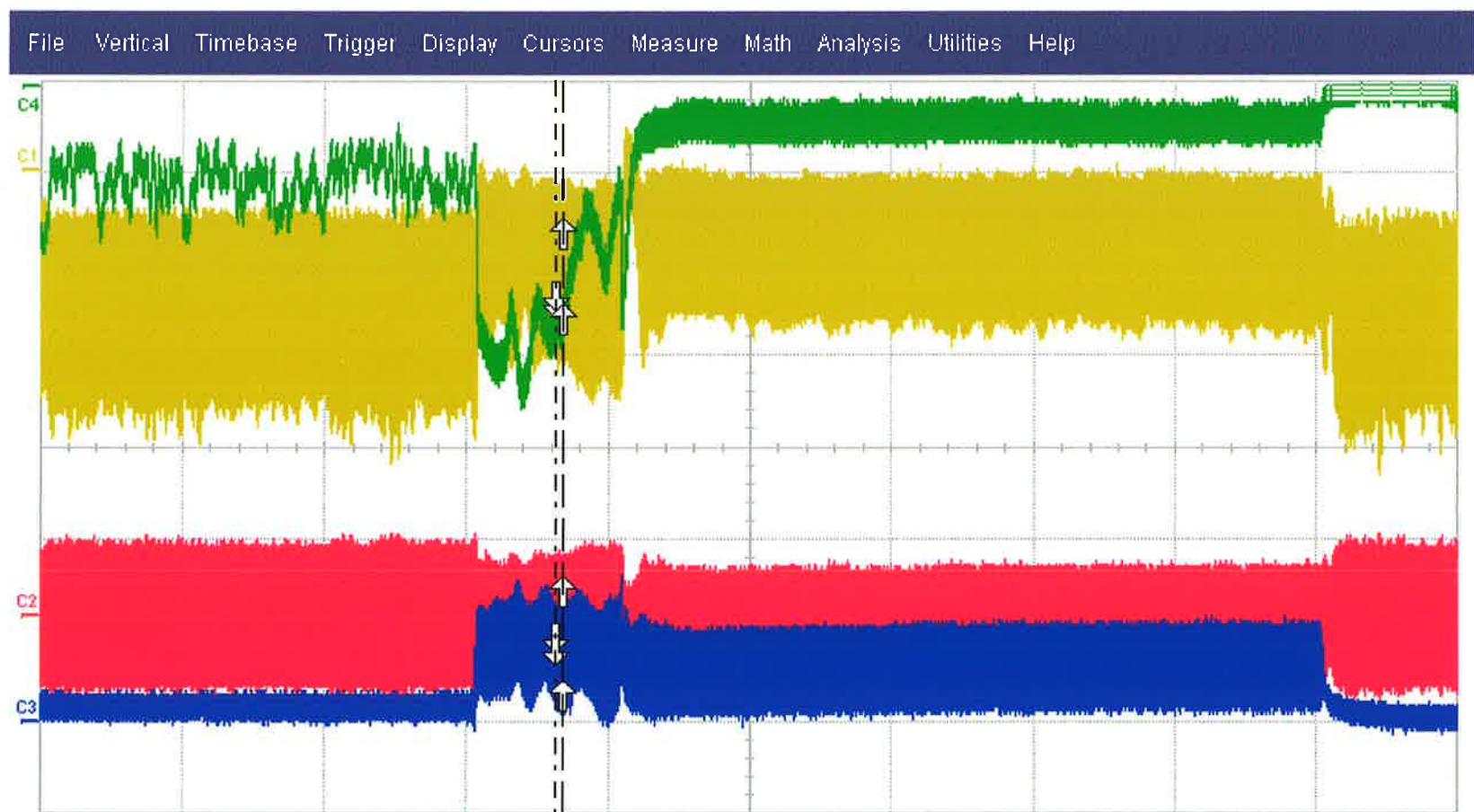


LeCroy



11-Nov-19
11:23:00





Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---	
value	-788 mV	1.84 V	122 V	12.0 V	> -8.7 V		
status	✓	✓	✓	✓	↑		
C1	DCIM	C2	DCIM	C3	DCIM	C4	DCIM
500 mV/div	1.00 V/div	1.00 V/div	100 V/div	100 V/div	500 V/div	Timebase	-1.00 ms
1.510 V offset	-1.840 V ofst	-1.840 V ofst	-300.0 V ofst	394.0 V offset	-244.0 V	Trigger	Ex/10 DC
↓ -800 mV	↓ -377 mV	↓ 414 mV	↓ 64.5 V	↓ -240.1 V	X1= 314.260 µs	500 µs/div	Normal
↑ -276 mV	↑ 44.6 V	↑ 44.6 V	↑ 3.9 V	↑ 3.9 V	△X= 29.060 µs	200 MS/s	200 mV
Δy 525 mV	Δy 791 mV	Δy -19.9 V	Δy	Δy	X2= 343.320 µs	Edge	Positive
					1/△X= 34.412 kHz		

LeCroy

11/11/2019 11:23:56 AM

11-Nov-19
11:25:23

1 .5 ms
0.50 V

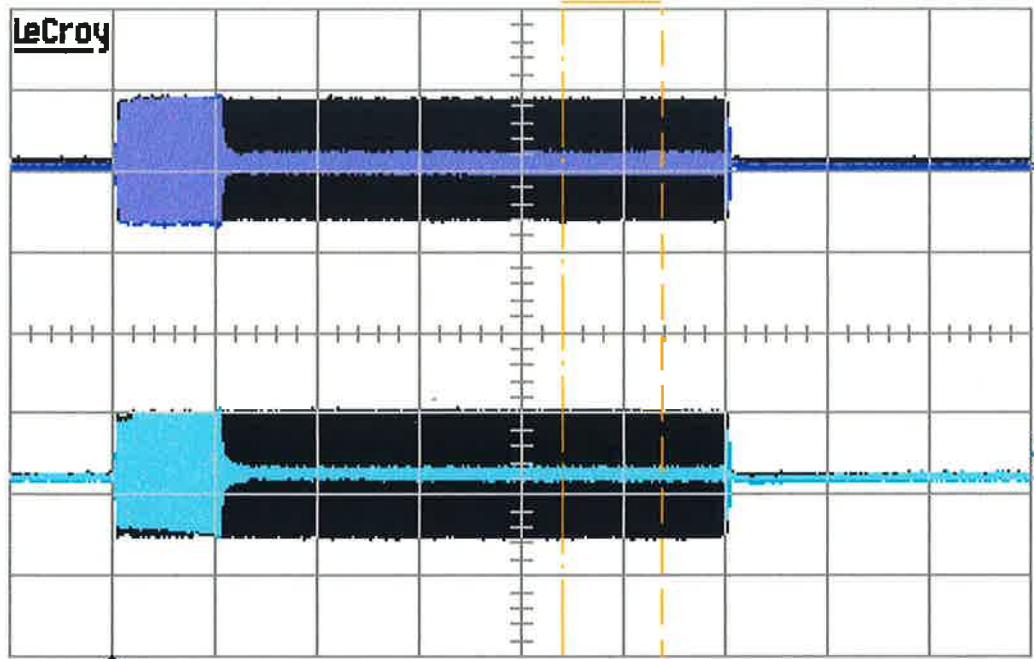
2 .5 ms
200mV

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



4 sweeps: average low high sigma

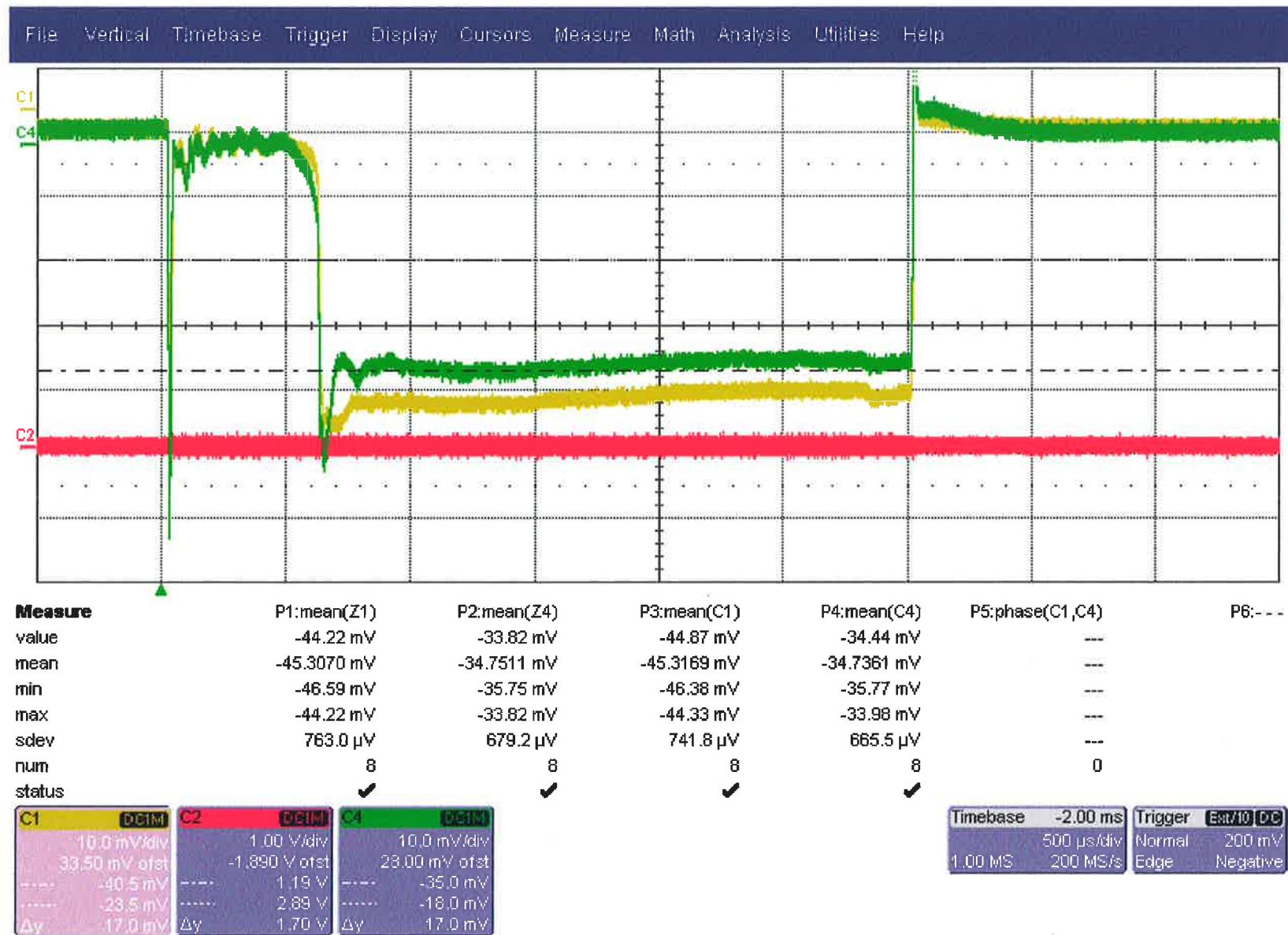
rms(1)	255.8mV	254.2	257.5	1.5
rms(2)	19.1mV	18.7	19.5	0.4
rms(3)	270.1mV	268.3	271.8	1.5
rms(4)	12.5mV	11.9	13.3	0.6
phase(1,3)	68.8 °	30.2	218.9	31.1



Ext10 DC 0.60 V 1MΩ

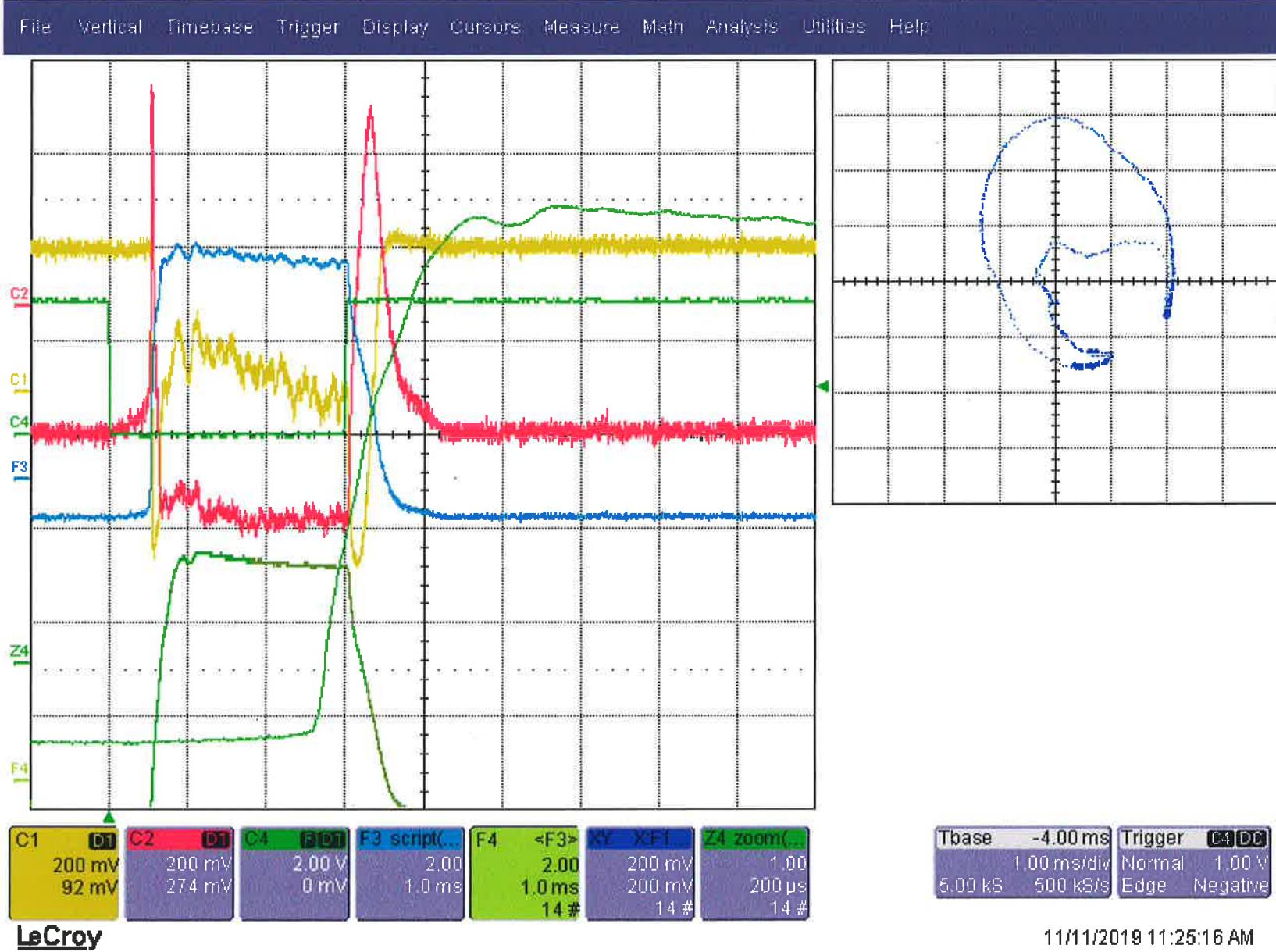
20 MS/s

NORMAL

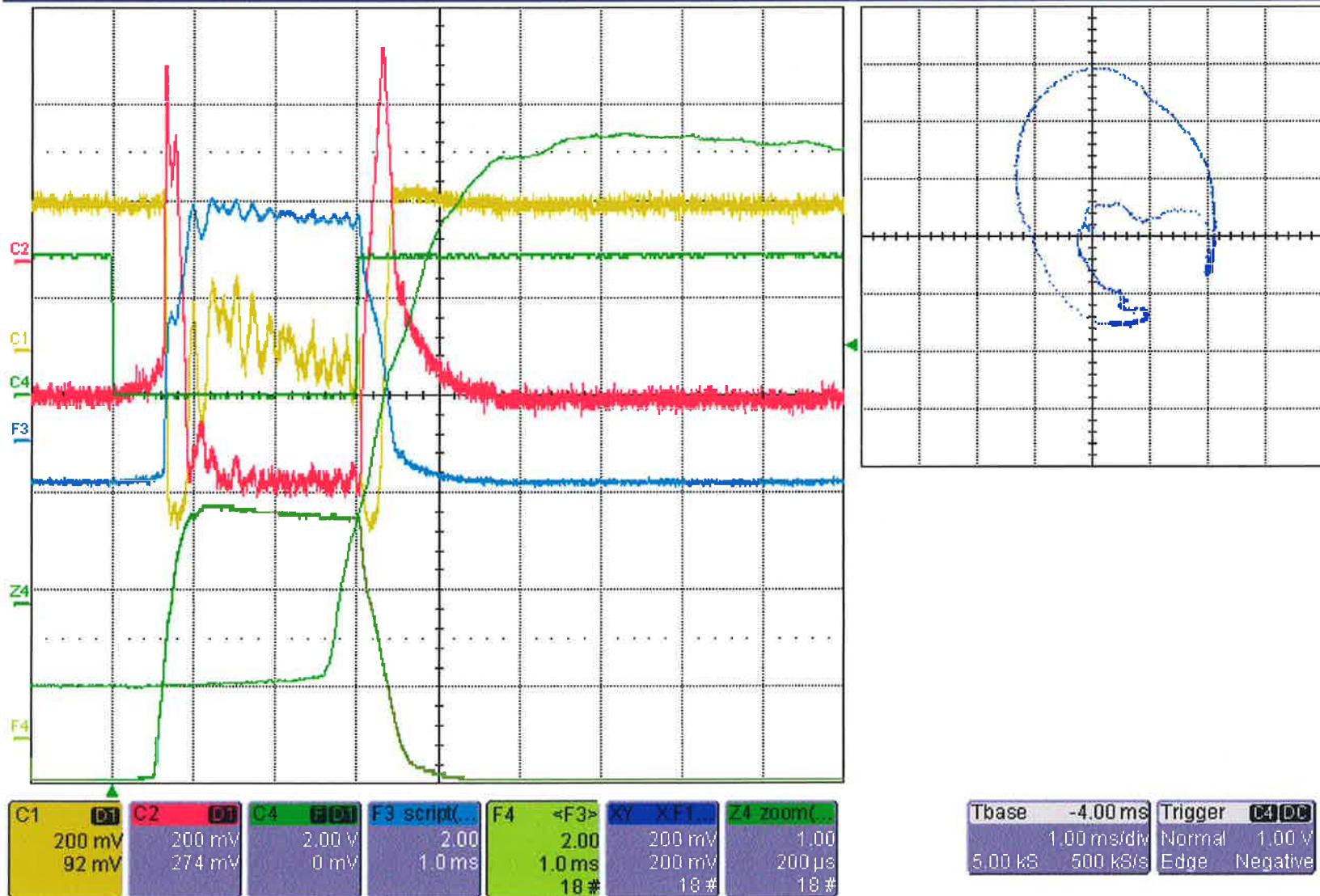


LeCroy

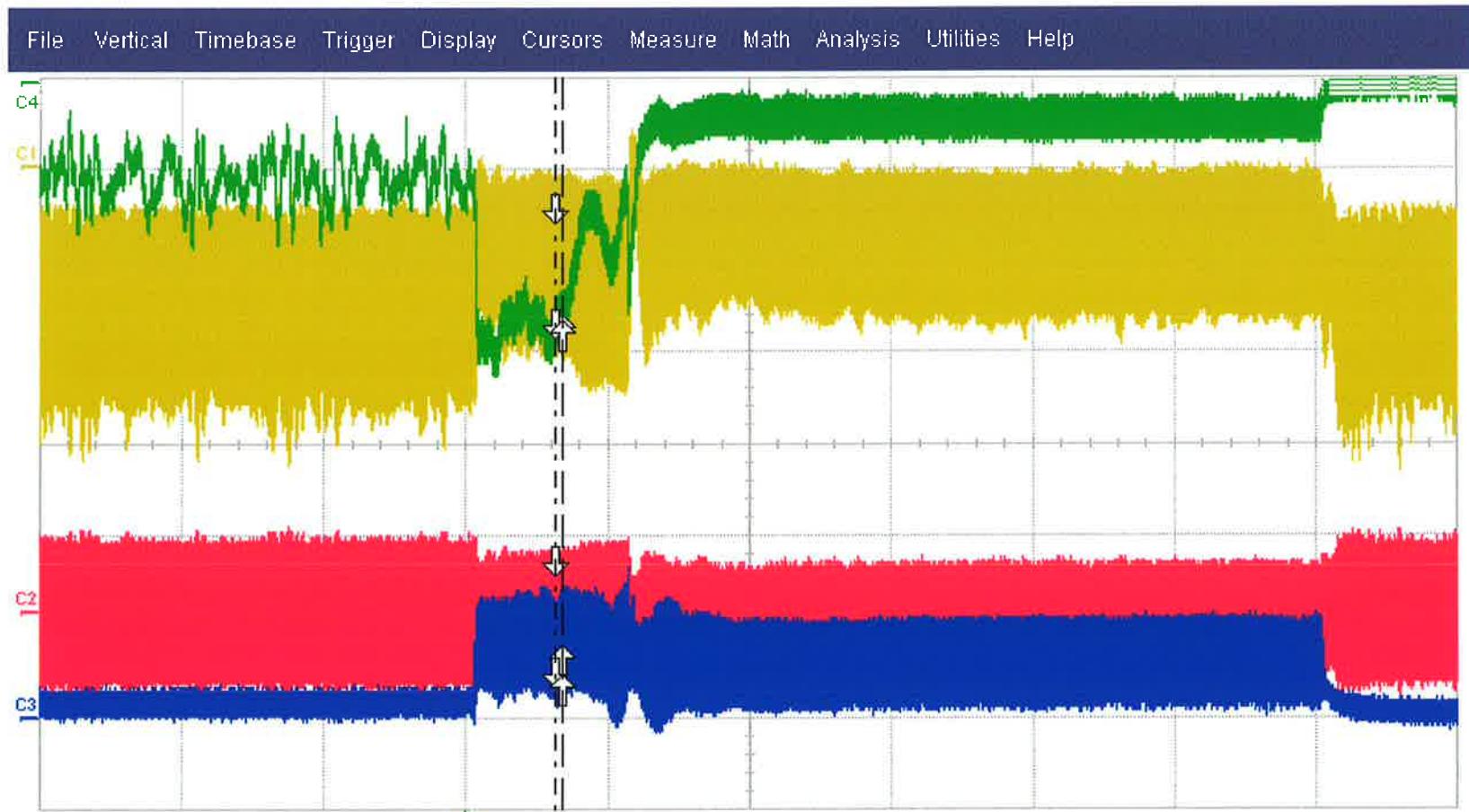
11/11/2019 11:25:13 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



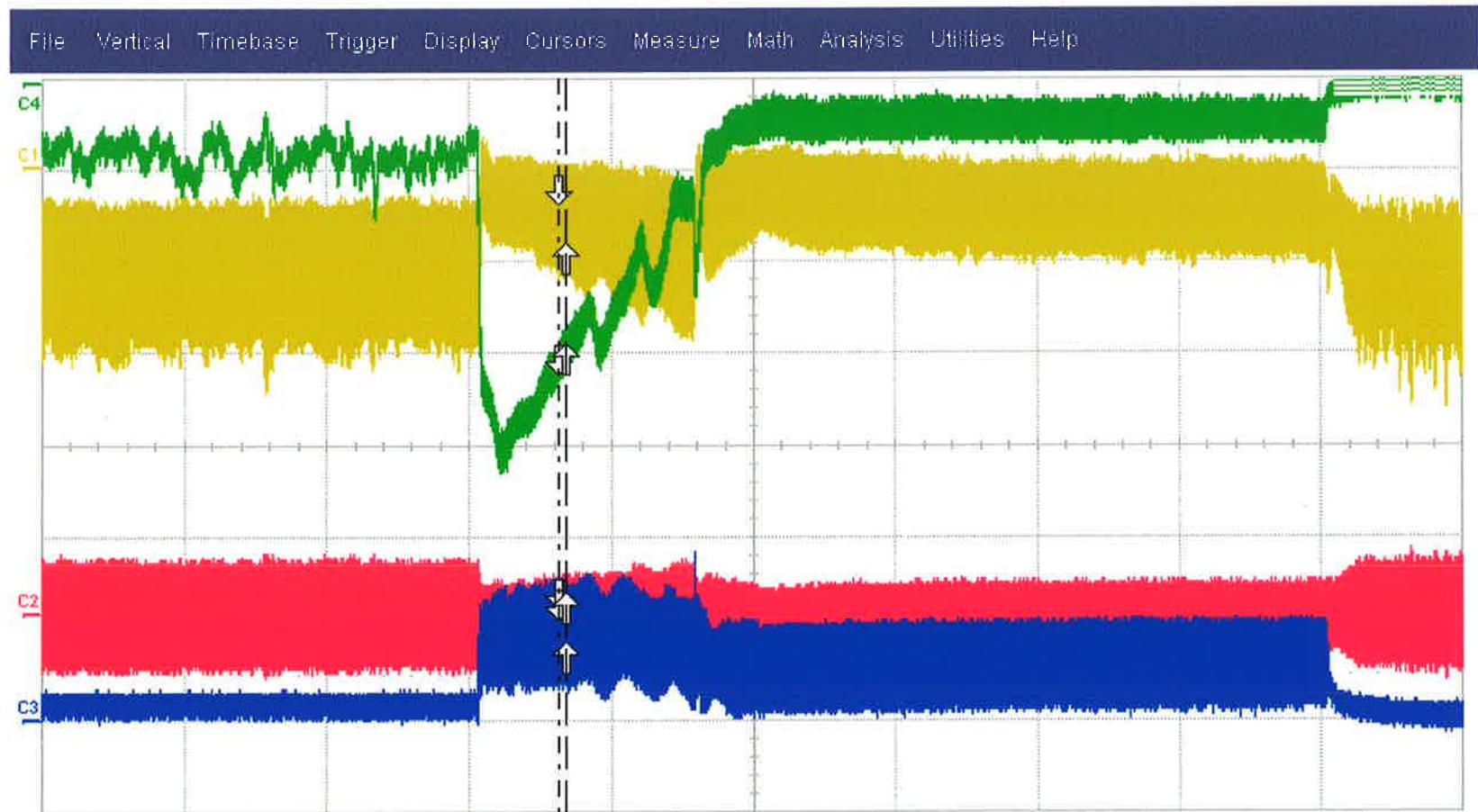
🖨️ Page successfully sent to the printer queue.



Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-775 mV	1.84 V	128 V	12.6 V	> -8.0 V	
status	✓	✓	✓	✓	↑	
C1 DCIM	C2 DCIM	C3 DCIM	C4 DCIM			
500 mV/div	1.00 V/div	100 V/div	100 V/div			
1,510 V offset	-1,840 V offset	-300.0 V offset	394.0 V offset			
↓ -301 mV	↓ 408 mV	↓ 35.7 V	↓ -277.7 V			
↑ -814 mV	↑ -381 mV	↑ 46.7 V	↑ -280.9 V			
Δy -513 mV	Δy -790 mV	Δy 11.1 V	Δy 16.8 V			
Timebase -1.00 ms	Trigger Ext/10 DC					
500 μs/div	Normal 200 mV					
1.00 MS	Edge Positive					
X1= 314.260 μs	ΔX= 29.060 μs					
X2= 343.320 μs	1/ΔX= 34.412 kHz					

LeCroy

11/11/2019 11:25:42 AM



Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-569 mV				> -7.7 V	
status	✓	✓	✓	✓	↑	
C1 DCIM	C2 DCIM	C3 DCIM	C4 DCIM			
500 mV/div	1.00 mV/div	100 mV/div	100 mV/div			
1.510 V offset	-1.840 V offset	-300.0 V offset	394.0 V offset			
↓ -409 mV	↓ 77 mV	↑ 111.4 V	↓ 314.8 V			
↑ -149 mV	↑ -313 mV	↑ 137.9 V	↑ -285.4 V			
Δy 260 mV	Δy -389 mV	Δy 26.4 V	Δy 29.4 V			
				Timebase -1.00 ms	Trigger Ext/10 DC	
				1.00 MS	500 μs/div	Normal 200 mV
					200 MS/s	Edge Positive
				X1= 314.260 μs	ΔX= 29.060 μs	
				X2= 343.320 μs	1/ΔX= 34.412 kHz	

LeCroy

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11-Nov-19
11:28:00

1 .5 ms
0.50 V

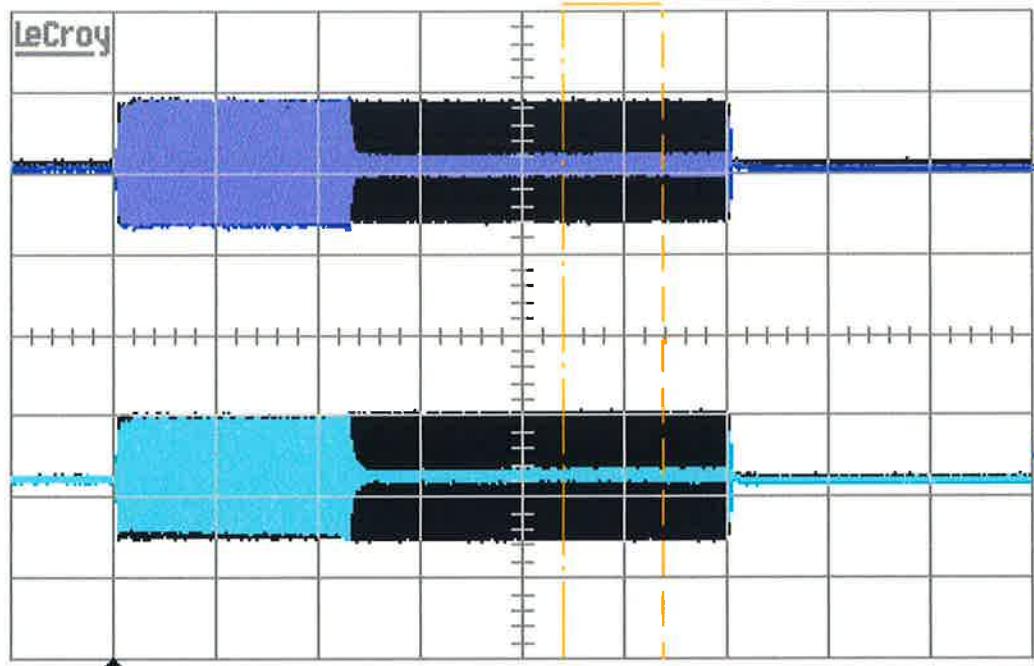
2 .5 ms
200mV

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



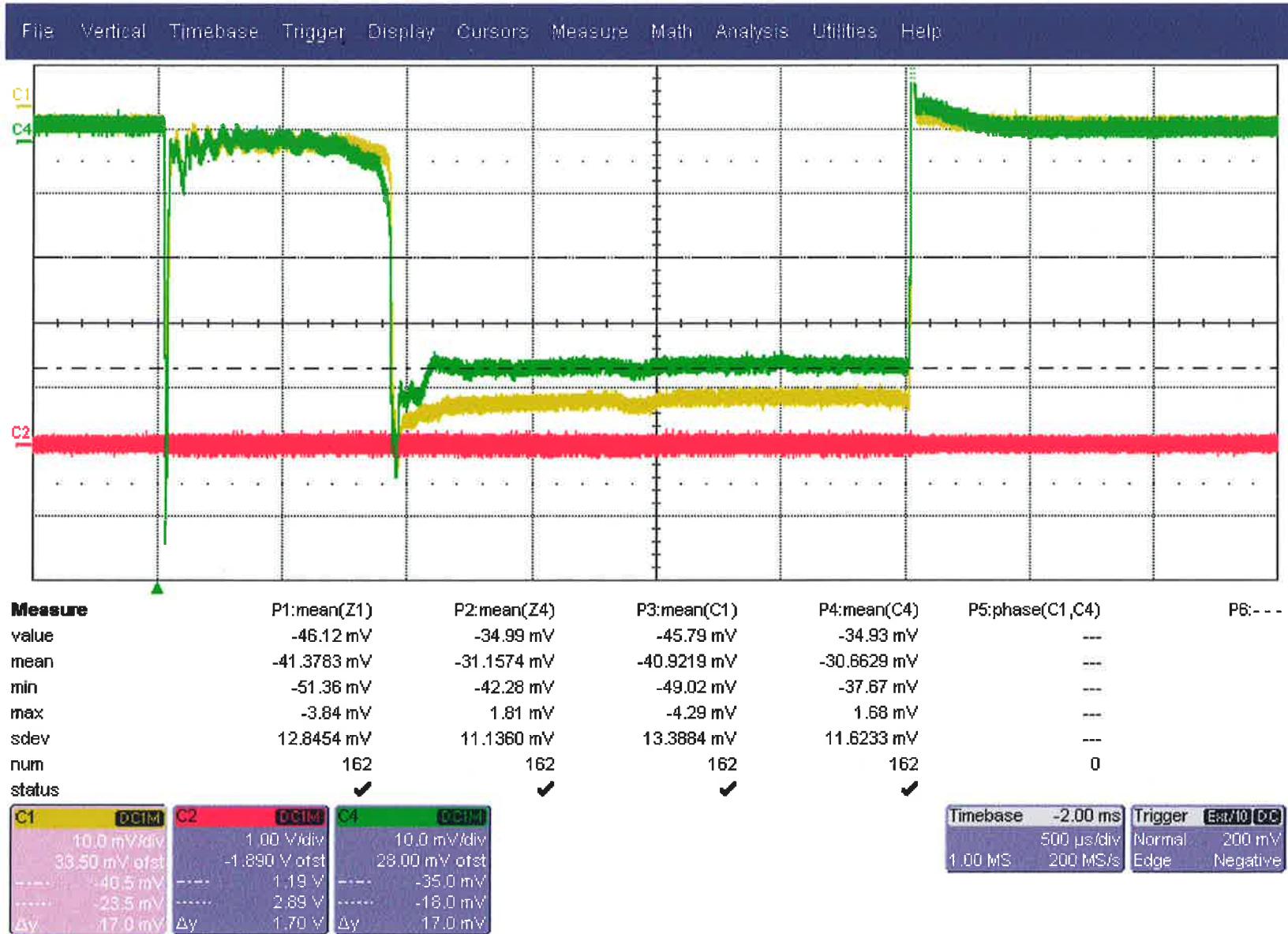
	4 sweeps:	average	low	high	sigma
rms(1)		257.4mV	256.0	258.2	1.0
rms(2)		19.3mV	18.7	19.9	0.5
rms(3)		271.7mV	270.4	272.5	0.9
rms(4)		12.9mV	11.8	14.1	1.0
phase(1,3)		68.0 °	30.0	218.6	29.9



Ext10 DC 0.60 V 1MΩ

20 MS/s

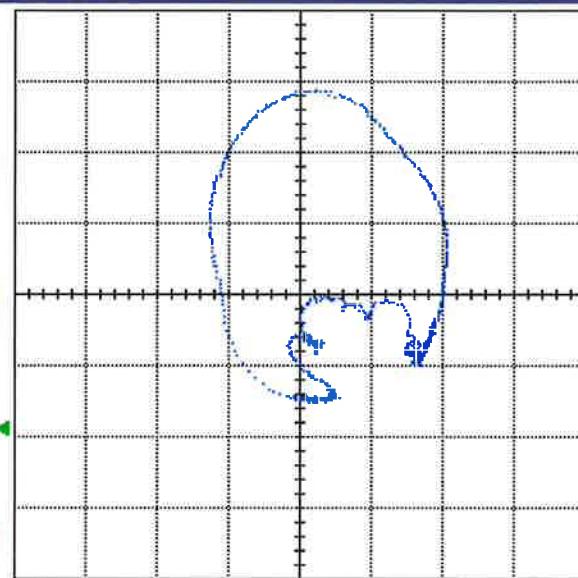
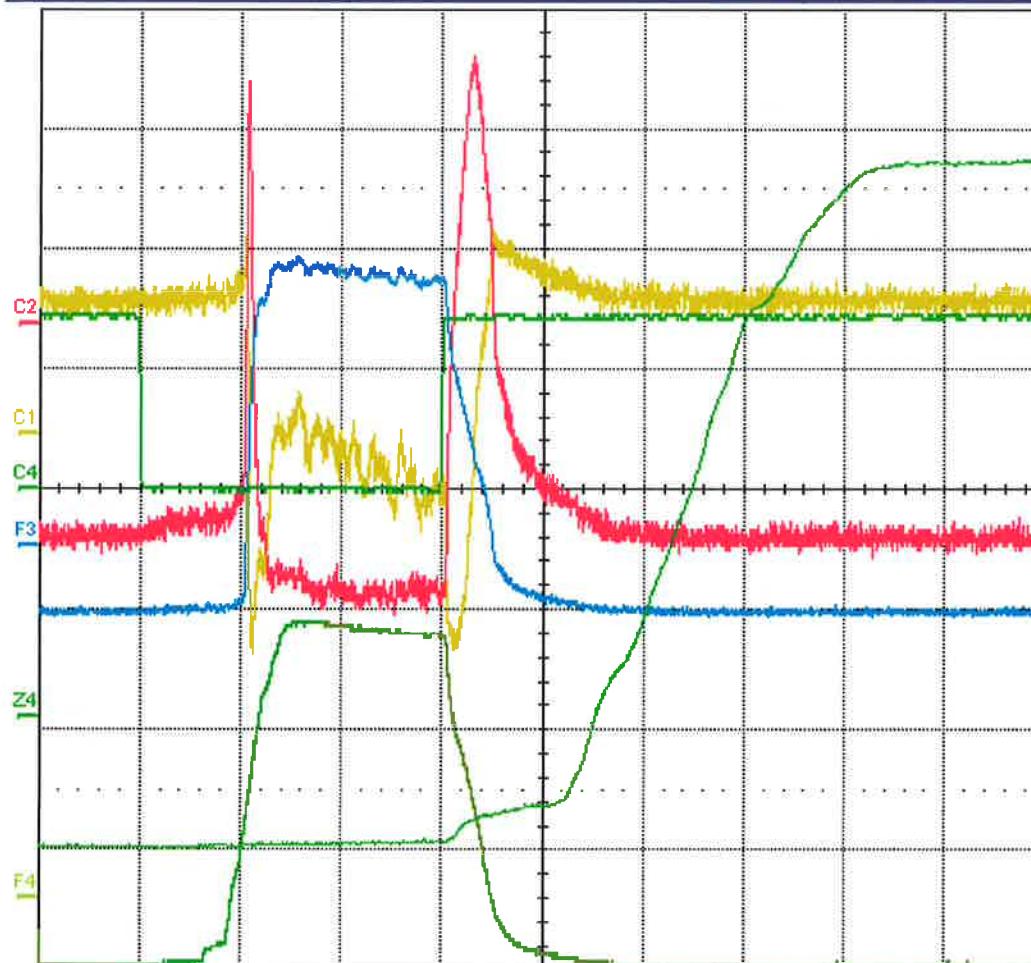
NORMAL



LeCroy

11/11/2019 11:27:50 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

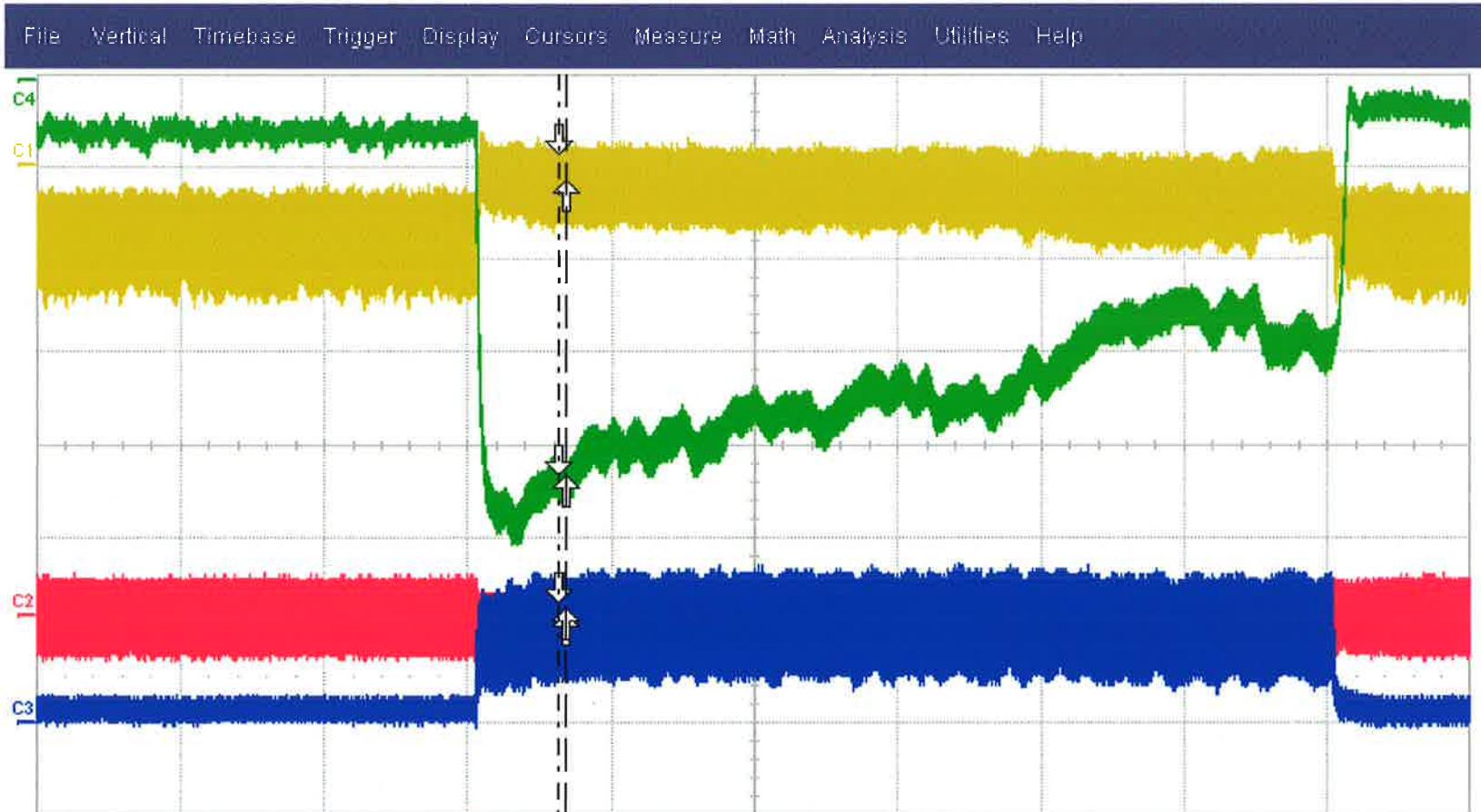


C1	D1	C2	D1	C4	F1	F3	script(F4	<F3>	X1	XF1	Z4	zoom(
200 mV	92 mV	200 mV	274 mV	2.00 V	0 mV	2.00	1.0 ms	2.00	1.0 ms	200 mV	200 mV	1.00	200 μ s
										20 #			20 #

LeCroy

Tbase	-4.00 ms	Trigger	C4(DC)
	1.00 ms/div	Normal	1.00 V
5.00 kS	500 kS/s	Edge	Negative

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Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---	
value	-398 mV	969 mV	169 V	18.8 V	-60.6 V		
status	✓	✓	✓	✓	✓		
C1	DCIM	C2	DCIM	C3	DCIM	C4	DCIM
500 mV/div		1.00 V/div	100 V/div		100 V/div		
1,510 V offset		-1,840 V offset	-300.0 V offset		394.0 V offset		
↓ 62 mV		↓ 157 mV	↓ 132.4 V		↓ 425.2 V		
↑ -94 mV		↑ 8 mV	↑ 121.5 V		↑ 428.4 V		
ΔY -156 mV		ΔY -149 mV	ΔY -10.9 V		ΔY -31 V		

Timebase -1.00 ms
Trigger Edge 0 DC
1.00 MS 200 MS/s
X1= 314.260 μs ΔX= 29.060 μs
X2= 343.320 μs 1/ΔX= 34.412 kHz

LeCroy

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11-Nov-19
11:30:05

1 .5 ms
0.50 V

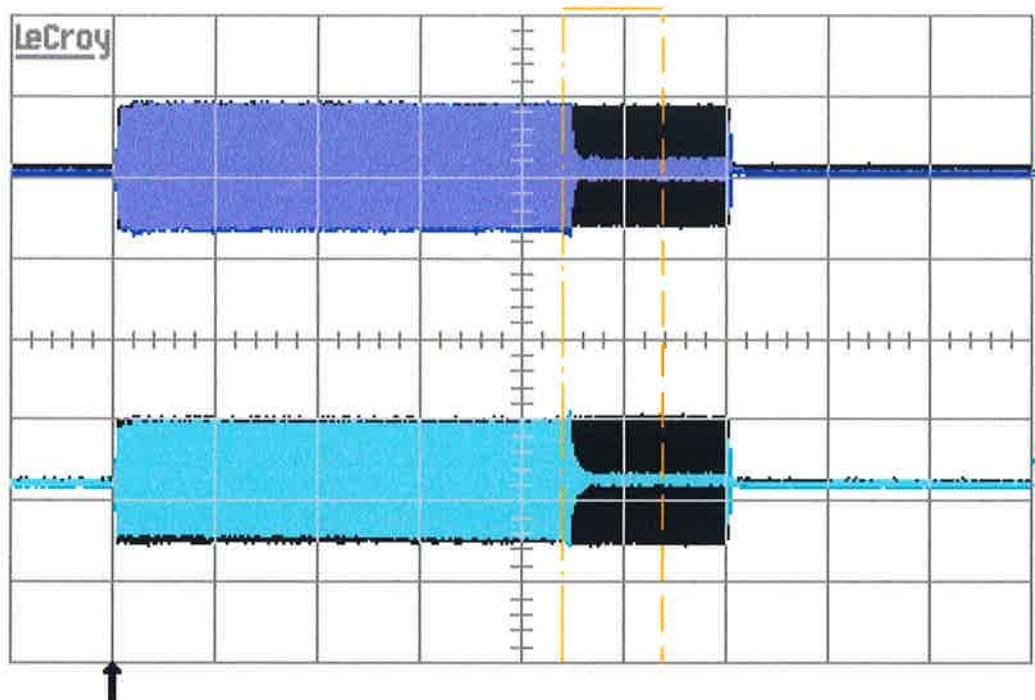
2 .5 ms
200mV

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



	14 sweeps:	average	low	high	sigma
rms(1)		260.3mV	255.8	262.7	2.2
rms(2)		94.1mV	41.5	107.5	22.5
rms(3)		262.9mV	260.1	270.1	3.4
rms(4)		85.1mV	38.5	97.5	19.5
phase(1,3)		78.5 °	28.4	218.5	34.6

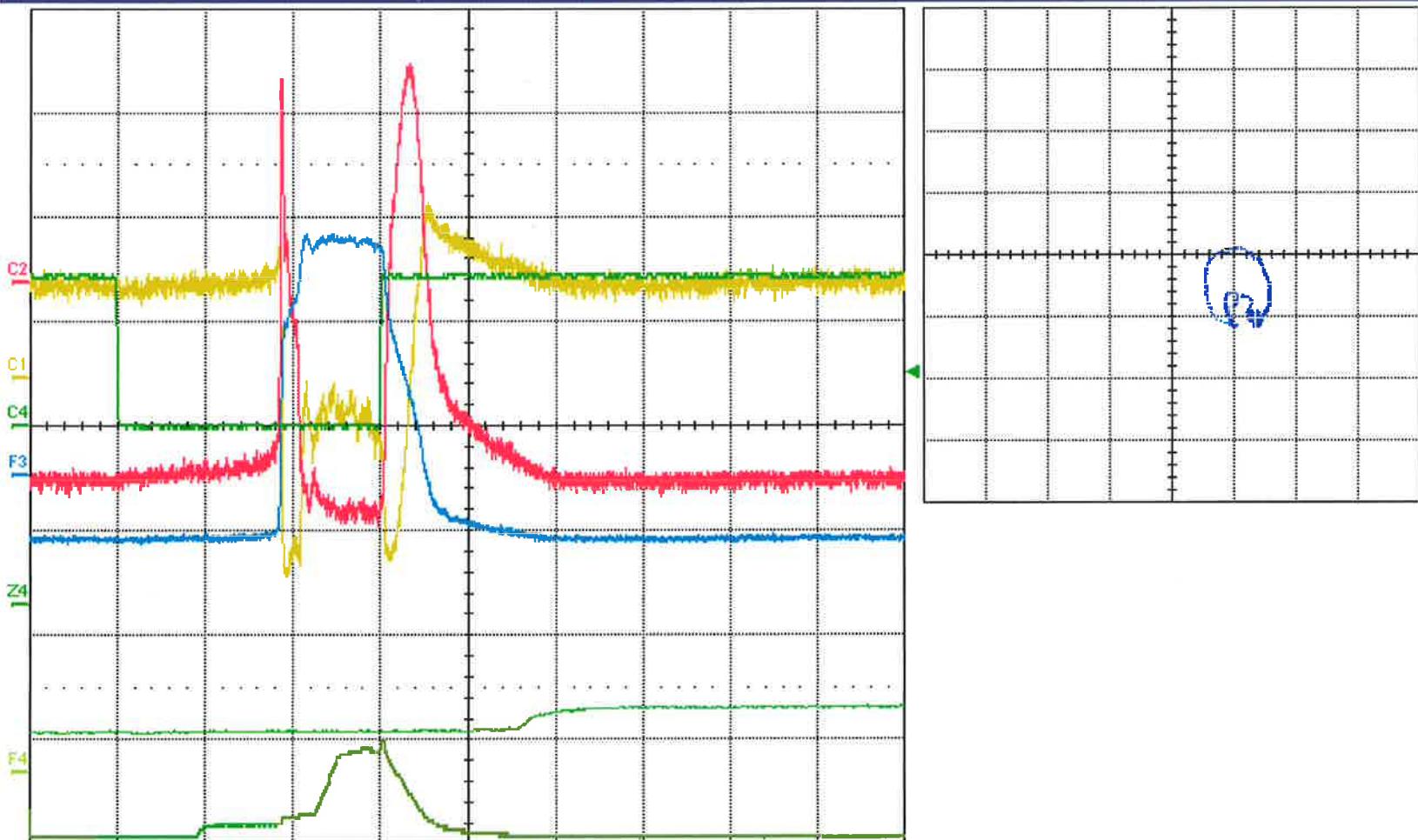


Ext10 DC 0.60 V 1MΩ

20 MS/s

NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

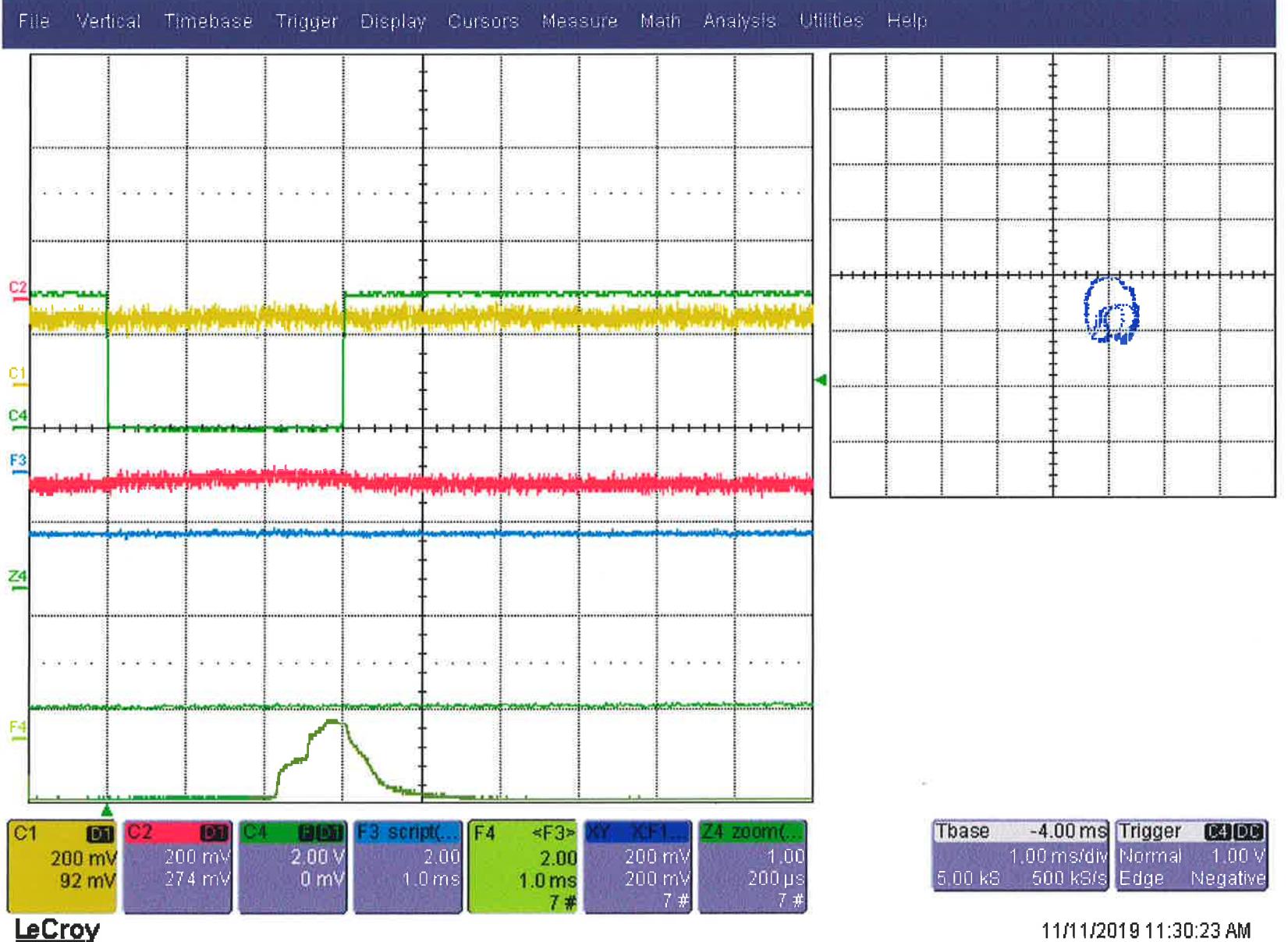


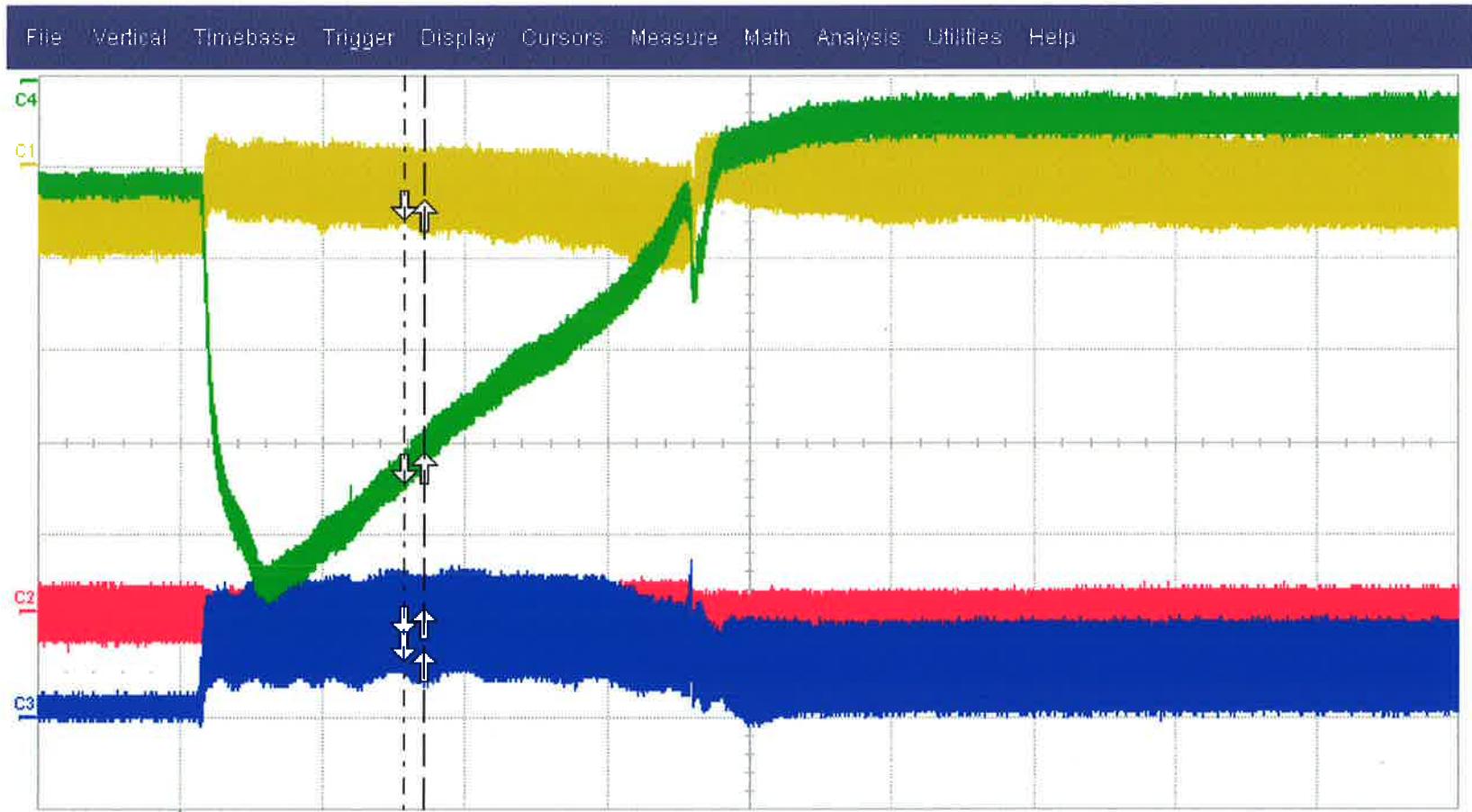
C1	D1	C2	D1	C4	F3	F4	<F3>	X/Y	KFI	Z4	zoomC
200 mV 92 mV		200 mV 274 mV		2.00 V 0 mV	2.00 1.0 ms		2.00 1.0 ms 27 #	200 mV 200 mV 27 #	1.00 200 μs 27 #		

LeCroy

Tbase -4.00 ms Trigger C4 (DC)
5.00 kS 1.00 ms/div
Normal 1.00 V
Edge Negative

11/11/2019 11:30:02 AM



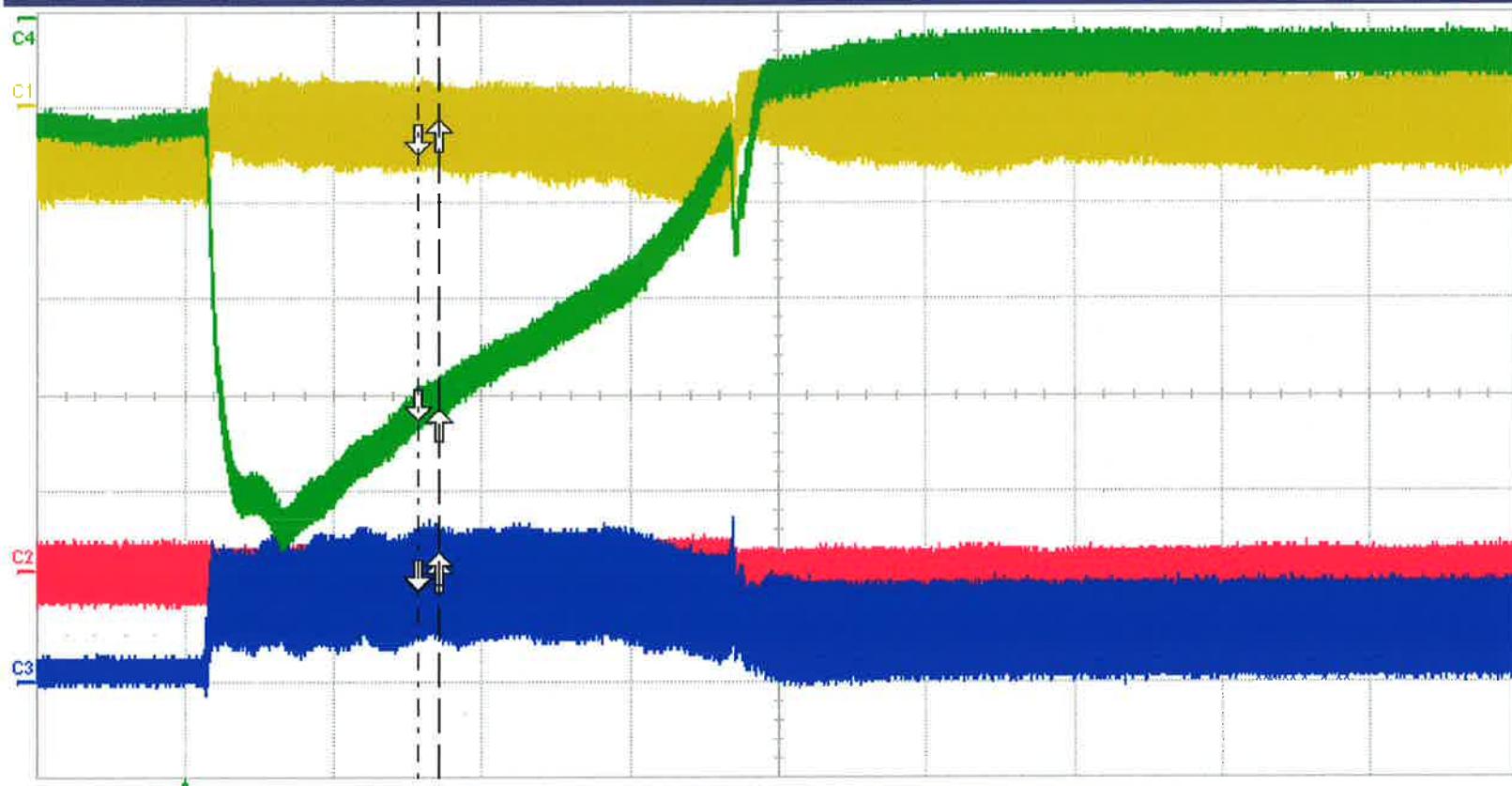


Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-100 mV	625 mV	113 V	55.2 V	-40.4 V	
status	✓	✓	✓	✓	✓	
C1	DCIM	C2	DCIM	C3	DCIM	C4
500 mV/div		1.00 V/div		100 V/div		Timebase -800 μ s
1.510 V offset		-1.840 V offset		394.0 V offset		200 μ s/div
↓ -293 mV		↓ -247 mV		↓ 65.0 V		Normal
↑ -197 mV		↑ 18 mV		↑ 72.5 V		Edge
Δy 95 mV		Δy 265 mV		Δy 31.3 V		200 mV Positive
X1= 314.260 μ s		ΔX= 29.060 μ s		X2= 343.320 μ s		1/ΔX= 34.412 kHz

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File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



Measure	P1:mean(C1)	P2:pkpk(C2)	P3:pkpk(C3)	P4:mean(C3)	P5:mean(C4)	P6:---
value	-79 mV	688 mV	113 V	54.9 V	-40.1 V	
status	✓	✓	✓	✓	✓	
C1 DCIM	C2 DCIM	C3 DCIM	C4 DCIM			
500 mV/div	1.00 V/div	100 V/div	100 V/div			
1.510 V offset	-1.840 V offset	-300.0 V offset	384.0 V offset			
↓ -249 mV	↓ -191 mV	↓ 97.9 V	↓ -418.0 V			
↑ -83 mV	↑ 69 mV	↑ 134.4 V	↑ -411.7 V			
Δy 166 mV	Δy 281 mV	Δy 36.4 V	Δy -6.3 V			
				Timebase -800 μs	Trigger Exv0 [DC]	
				1.00 MS	200 μs/div	
				500 MS/s	Normal Edge	200 mV Positive
				X1= 314.260 μs	ΔX= 29.060 μs	
				X2= 343.320 μs	1/ΔX= 34.412 kHz	

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11-Nov-19
11:33:06

1 .5 ms
0.50 V

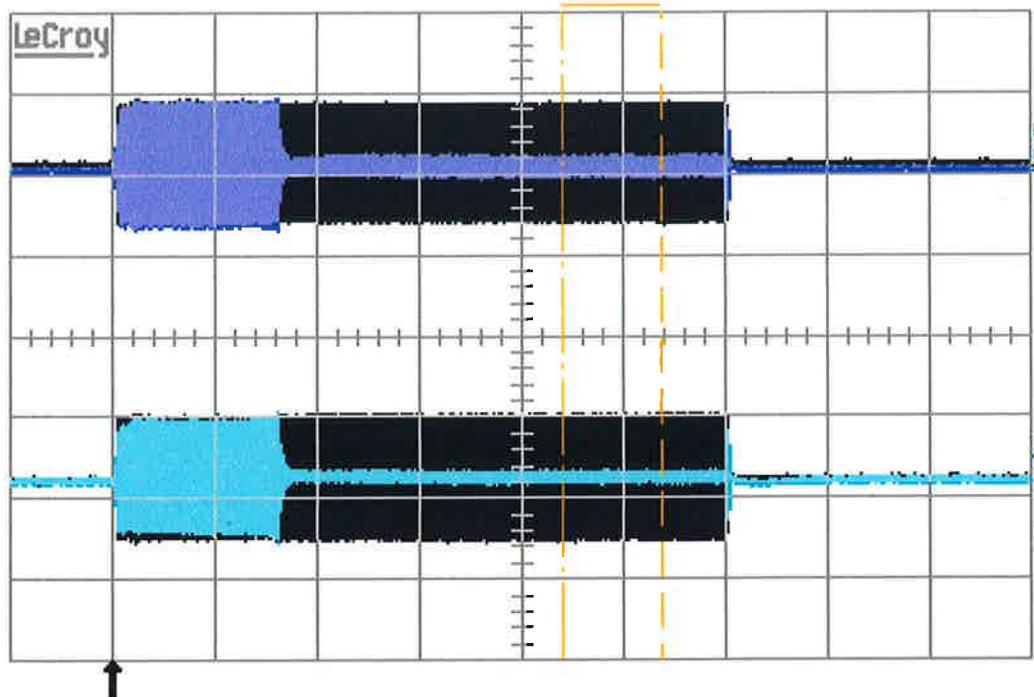
2 .5 ms
200mV

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(1) 253.7mV 252.6 254.6 0.9

rms(2) 19.1mV 18.6 20.0 0.5

rms(3) 268.4mV 267.4 269.4 0.9

rms(4) 12.6mV 11.9 14.0 0.9

phase(1,3) 63.5 ° -132.7 220.0 35.0

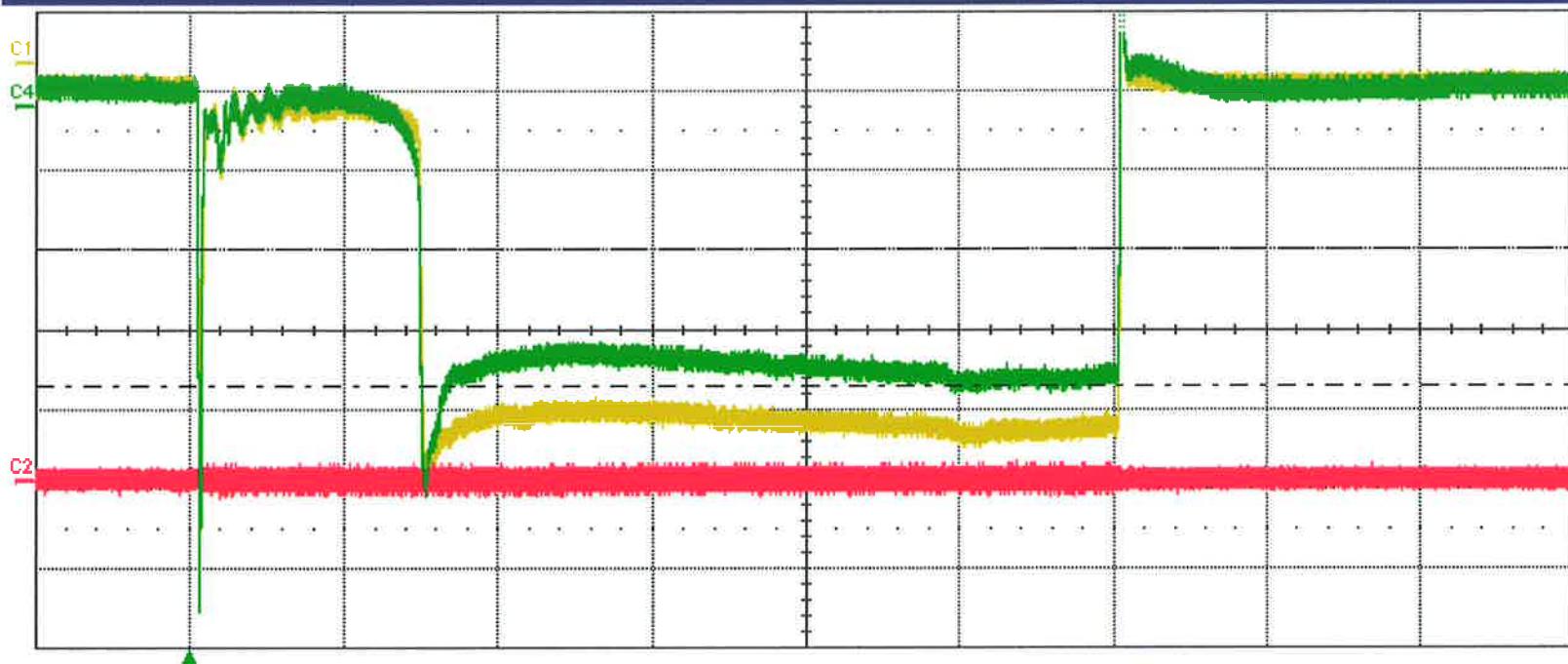


Ext10 DC 0.60 V 1MΩ

20 MS/s

NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



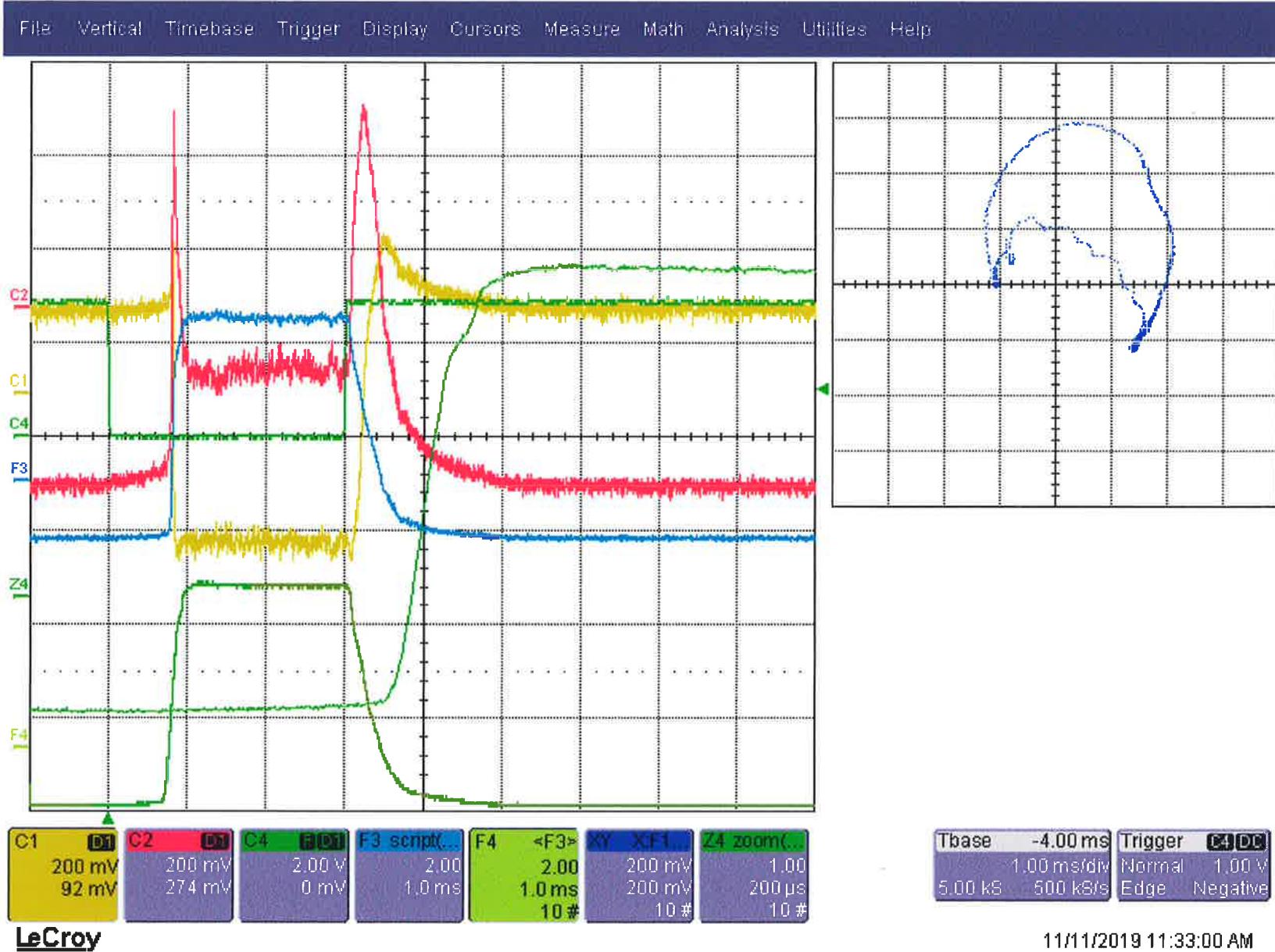
Measure	P1:mean(Z1)	P2:mean(Z4)	P3:mean(C1)	P4:mean(C4)	P5:phase(C1,C4)	P6:---
value	-45.04 mV	-32.50 mV	-44.46 mV	-32.07 mV	---	
mean	-44.7754 mV	-32.5705 mV	-44.6233 mV	-32.4380 mV	---	
min	-46.83 mV	-33.94 mV	-45.27 mV	-33.19 mV	---	
max	-43.40 mV	-31.62 mV	-43.94 mV	-31.73 mV	---	
sdev	836.9 μ V	680.4 μ V	479.9 μ V	447.6 μ V	---	
num	10	10	10	10	0	
status	✓	✓	✓	✓	✓	

C1	DCIM	C2	DCIM	C4	DCIM
10.0 mV/div		1.00 V/div		10.0 mV/div	
33.50 mV/ctst		-1.890 V/ctst		29.00 mV/ctst	
-----		1.19 V		-35.0 mV	
-----		-----		-----	
-40.5 mV		2.89 V		-18.0 mV	
-----		-----		-----	
-23.5 mV		-----		-----	
Δy	17.0 mV	Δy	1.70 V	Δy	17.0 mV

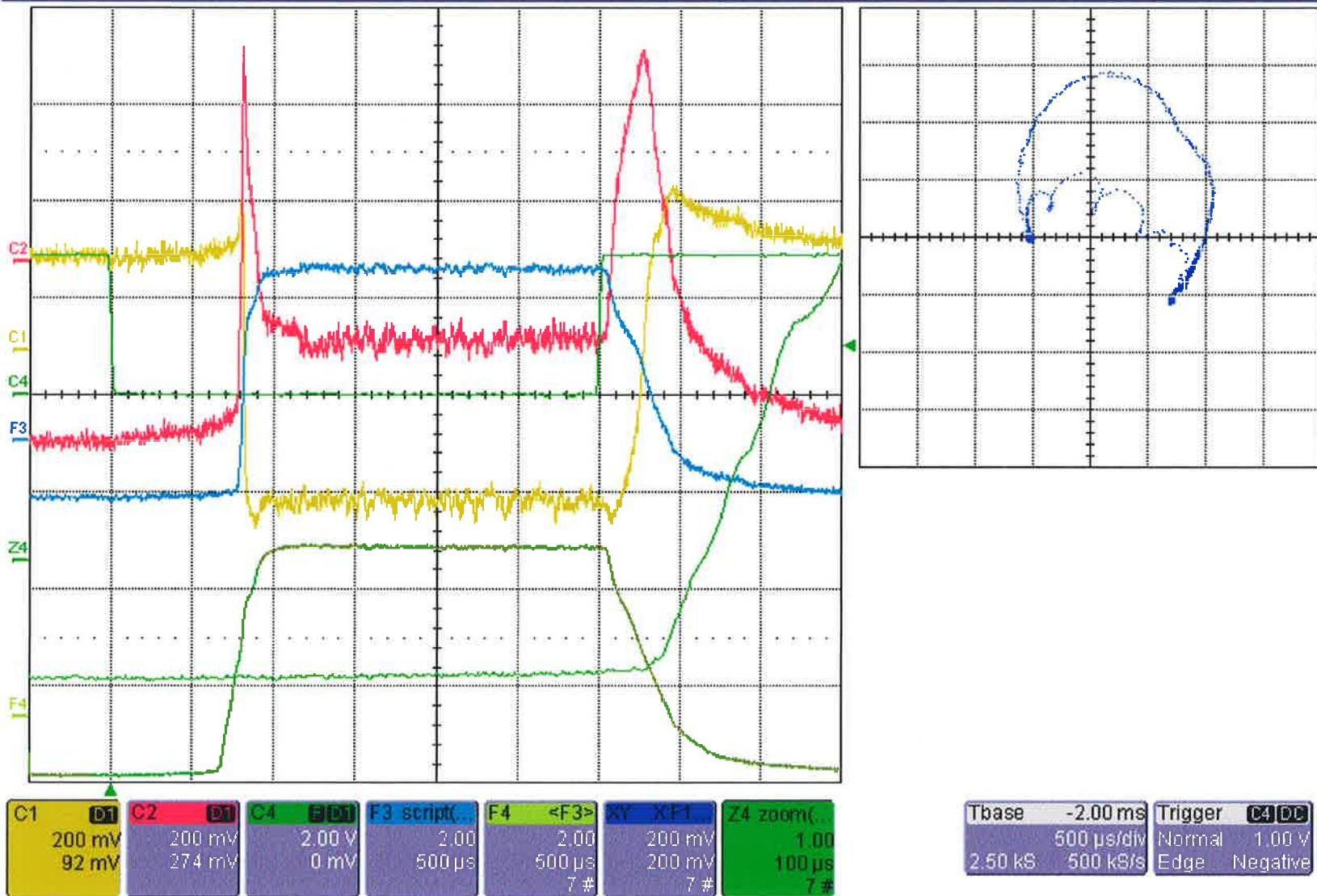
Timebase	-2.00 ms	Trigger	Ext/10 [DC]
	500 μ s/div	Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

LeCroy

11/11/2019 11:32:56 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



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11/11/2019 11:33:18 AM

11-Nov-19
11:34:30

1 .5 ms
0.50 V

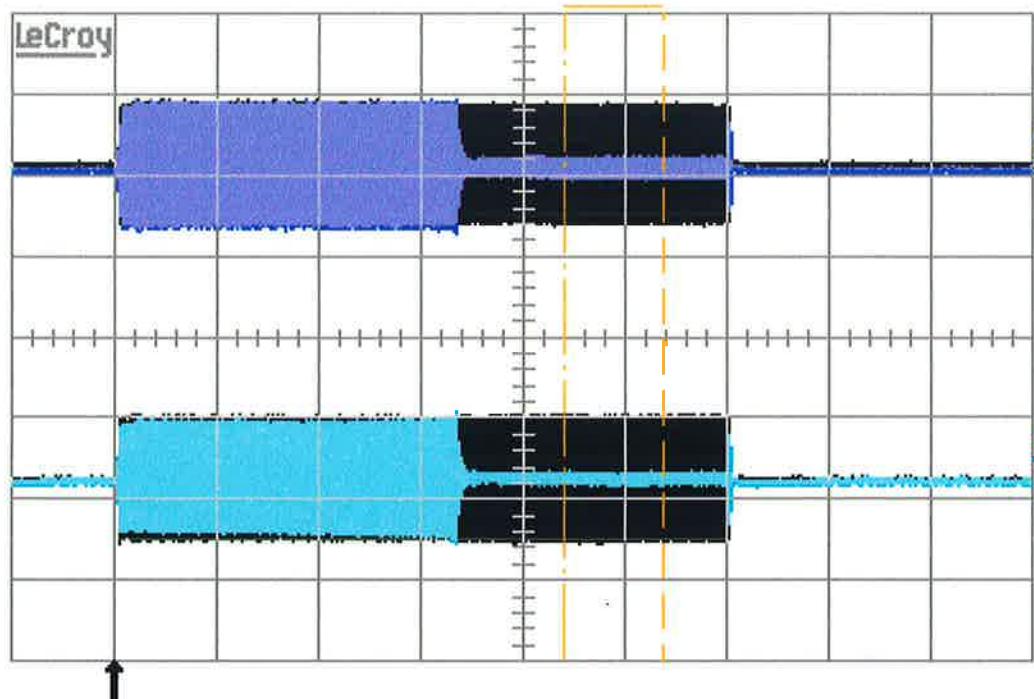
2 .5 ms
200mV

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)		253.6mV	252.3	254.7	1.0
rms(2)		18.9mV	18.3	19.7	0.6
rms(3)		268.6mV	267.3	269.4	1.0
rms(4)		11.9mV	10.3	13.3	1.1
phase(1,3)		64.1 °	29.0	219.0	31.5



Ext10 DC 0.60 V 1MΩ

20 MS/s

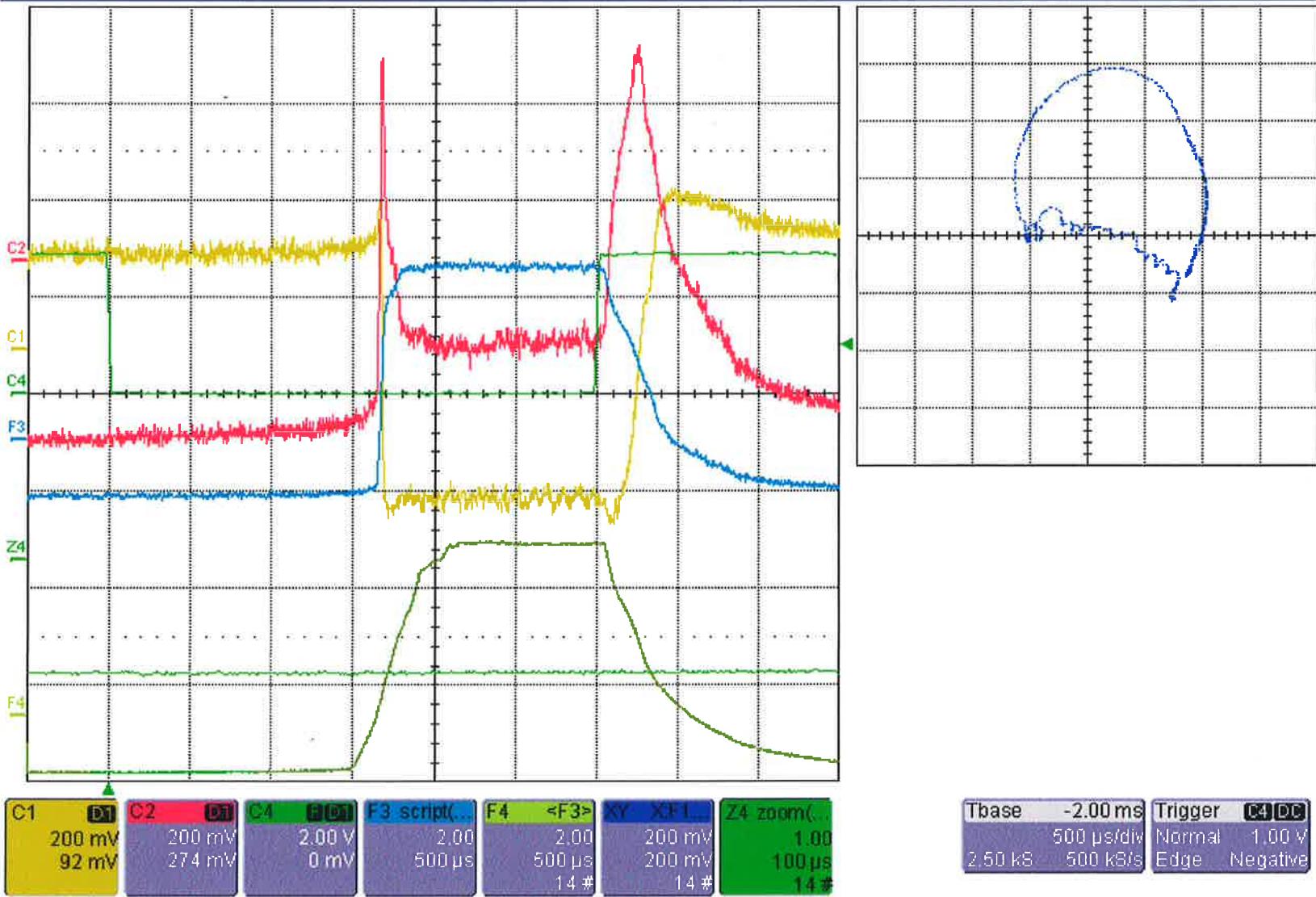
NORMAL



LeCroy

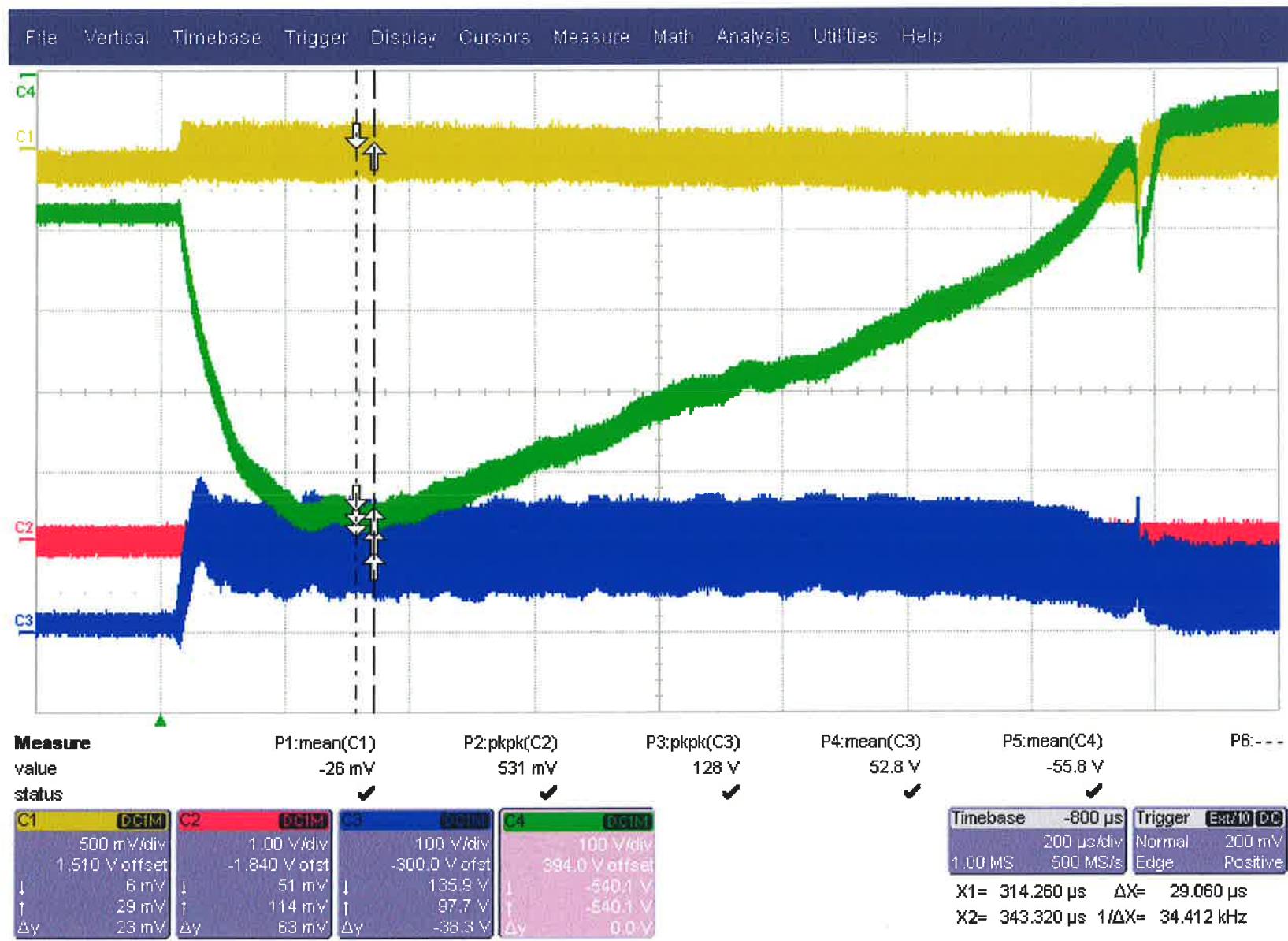
11/11/2019 11:34:19 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



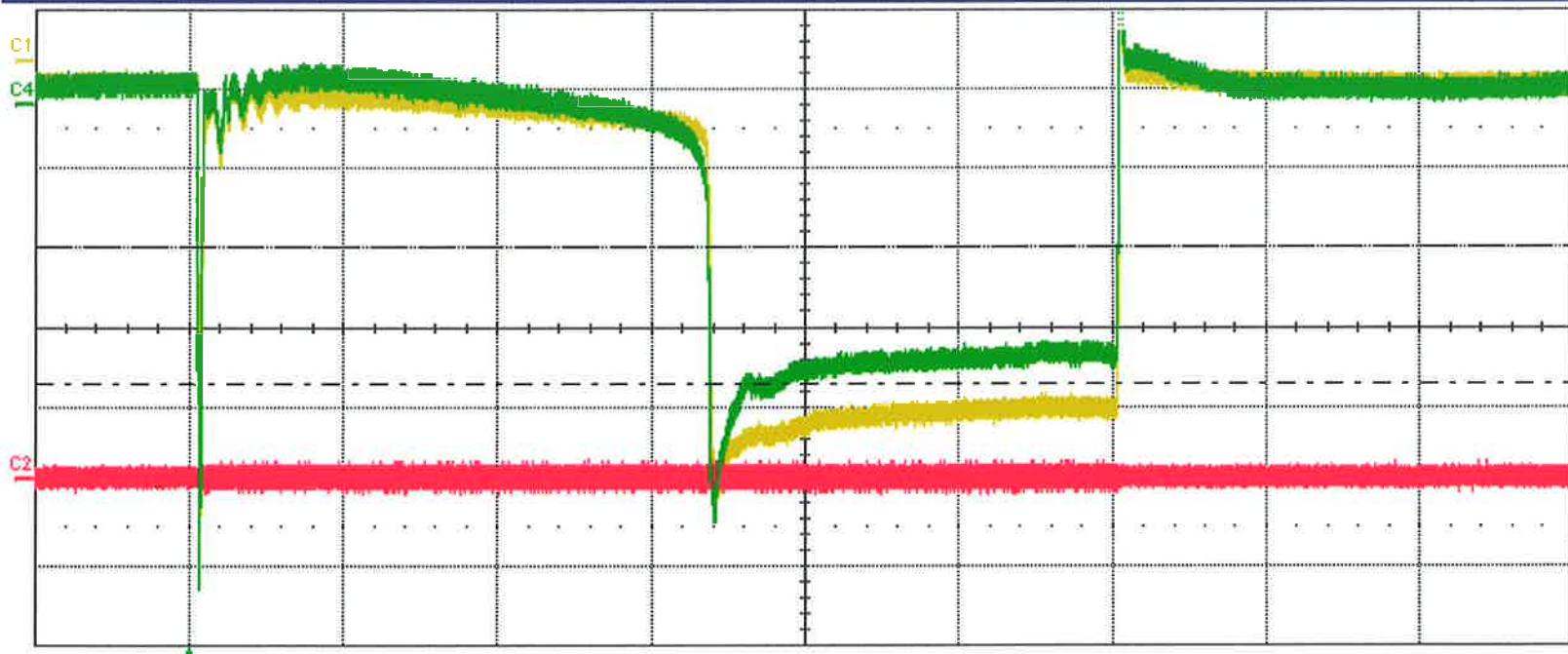
LeCroy

11/11/2019 11:34:24 AM



LeCroy

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	-46.13 mV	-33.68 mV	-31.49 mV	-24.08 mV	---	
mean	-37.4264 mV	-27.1660 mV	-27.2289 mV	-19.6984 mV	---	
min	-46.13 mV	-33.68 mV	-41.06 mV	-31.60 mV	---	
max	-8.19 mV	-5.79 mV	-6.10 mV	-545 µV	---	
sdev	14.6359 mV	10.7102 mV	11.9319 mV	10.6454 mV	---	
num	5	5	5	5	0	
status	✓	✓	✓	✓	✓	

C1	DCIM	C2	DCIM	C4	DCIM
10.0 mV/div		1.00 V/div		10.0 mV/div	
33.60 mV offset		-1.890 V offset		28.00 mV offset	
-----		-----		-----	
-40.5 mV		1.19 V		-35.0 mV	
-----		-----		-----	
-23.5 mV		2.89 V		-18.0 mV	
Δy	17.0 mV	Δy	1.70 V	Δy	17.0 mV

Timebase	-2.00 ms	Trigger	ExtD[DC]
500 µs/div		Normal	200 mV
1.00 MS	200 MS/s	Edge	Negative

LeCroy

11/11/2019 11:35:17 AM