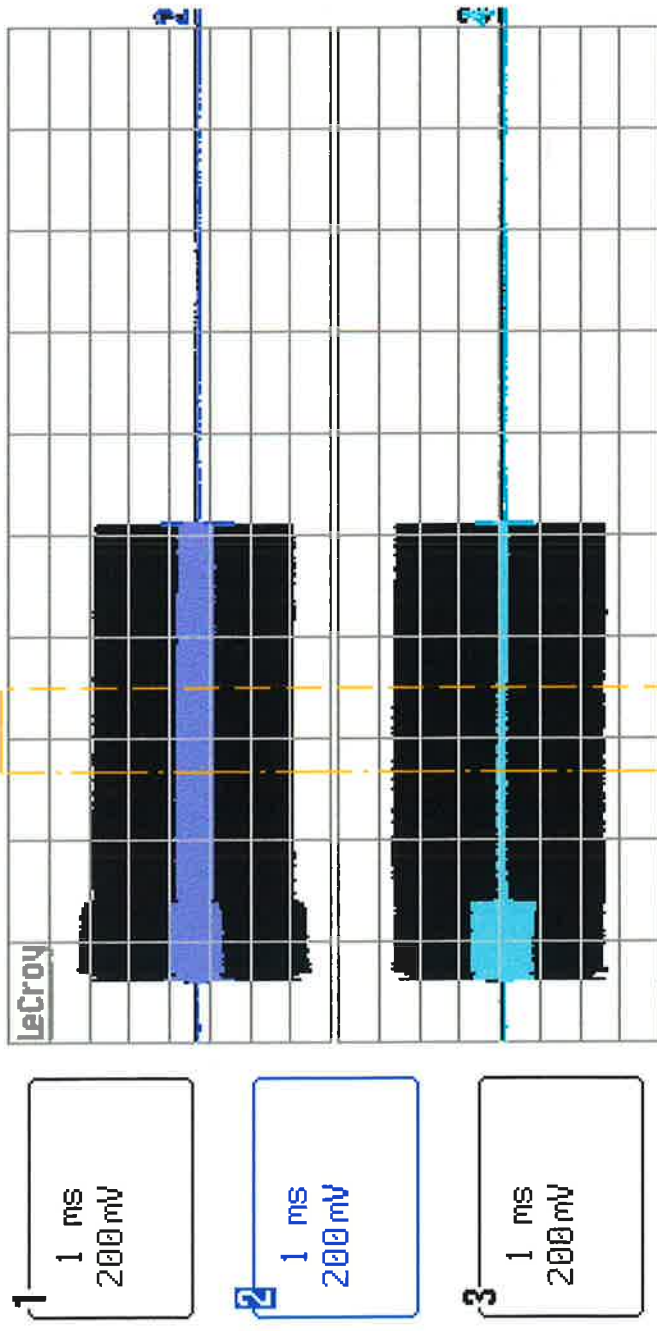


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9:59:52



266 sweeps:

	average	low	high	sigma
rms (1)	350.3 mV	347.1	353.0	1.3
rms (2)	61.1 mV	59.8	62.3	0.5
rms (3)	366.7 mV	363.7	369.0	1.2
rms (4)	18.3 mV	15.0	21.6	1.6
phase (1,3)	79 °	30	134	36

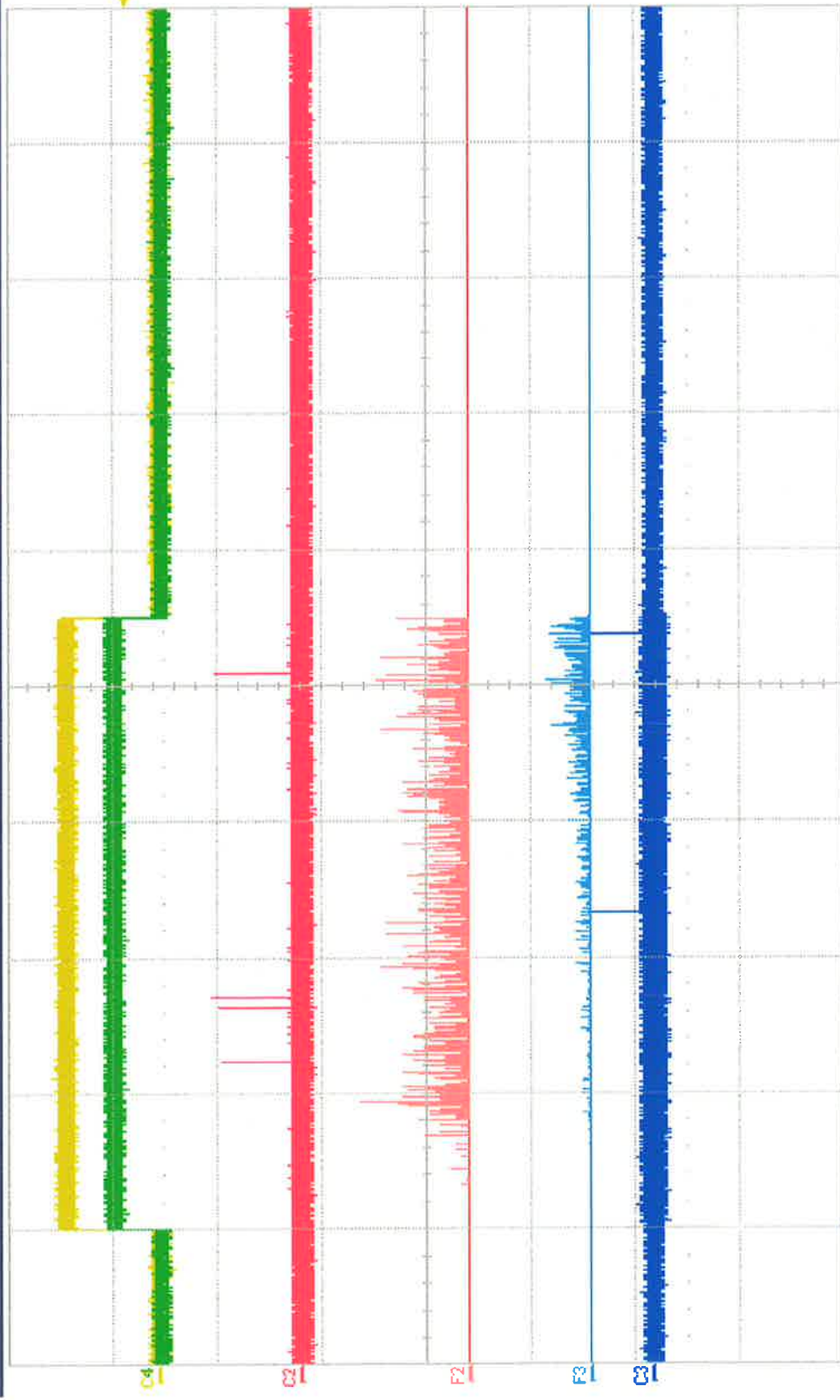
1 ms

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

10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL



Timebase -4.00 ms
1.00 ms/div
500 kS

Trigger C100
Normal
Edge
Positive

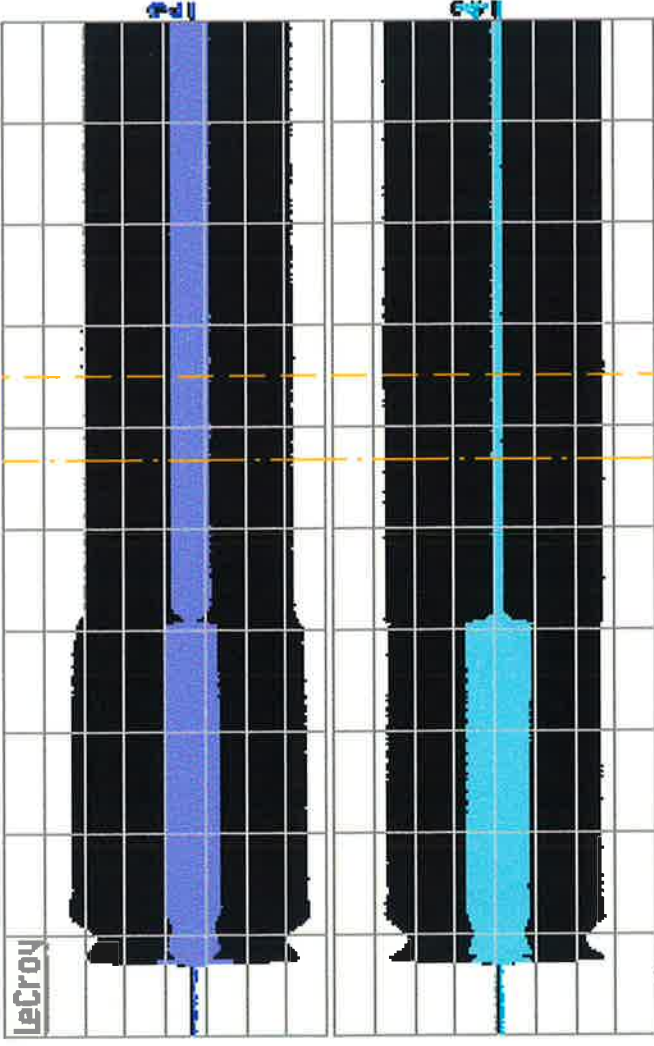
C1 5.00 V 12.70 V
C2 5.00 V 5.95 V
C3 5.00 V -11.0 V
C4 10.0 V 25.30 V

F2 peris... 20.0 # 1.0 ms 2.25 k#
F3 peris... 100 # 1.0 ms 3.21 k#

TELEDYNE LECROY

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20-Oct-20
10:01:18



1
.2 ms
200 mV

2
.2 ms
200 mV

3
.2 ms
200 mV

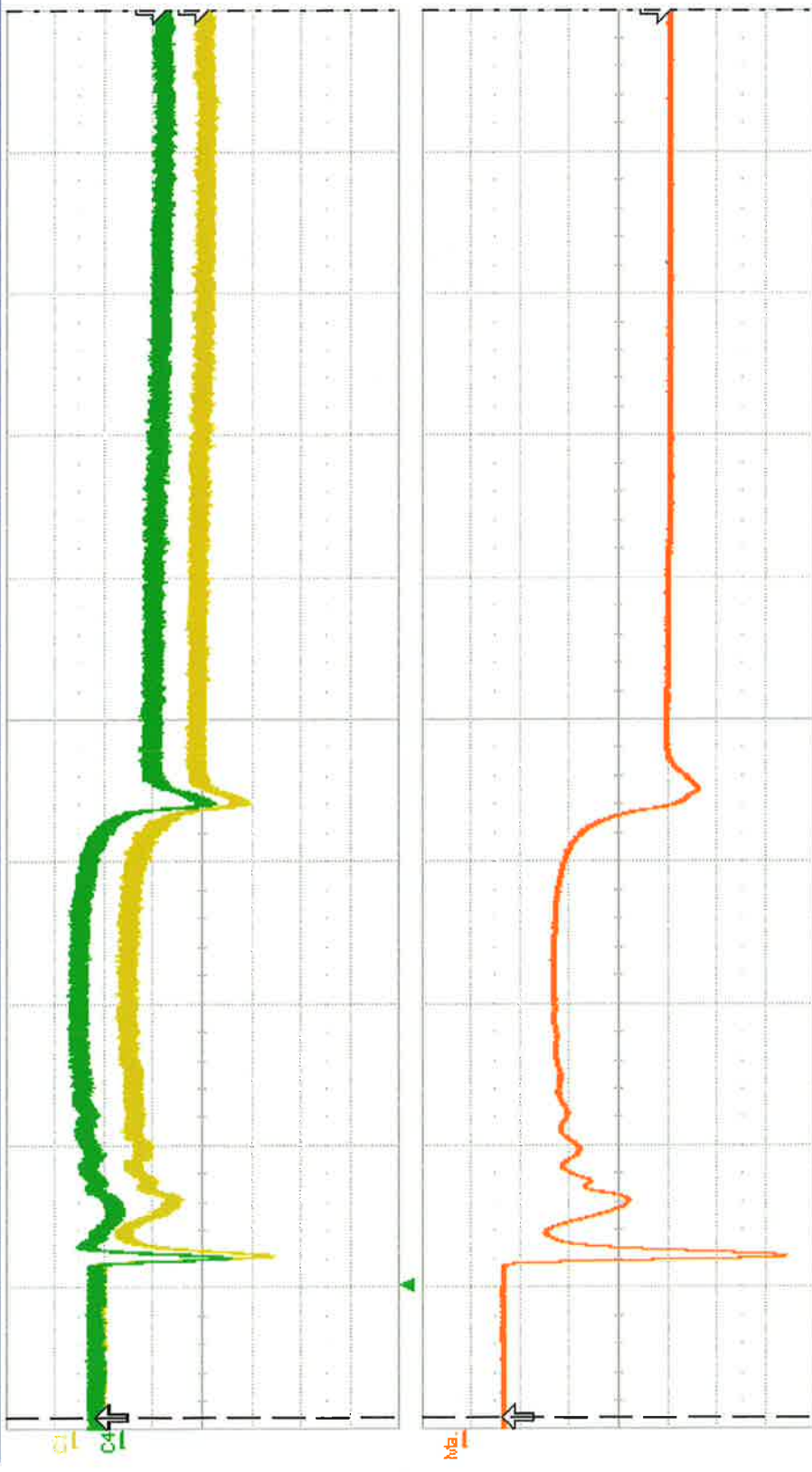
4
.2 ms
200 mV

7 sweeps:						
rms(1)	average	low	high	sigma		
rms(2)	363.4mV	362.7	364.4	0.6		
rms(3)	63.8mV	63.3	64.4	0.4		
rms(4)	377.9mV	376.9	378.9	0.7		
phase(1,3)	19.9mV	17.4	21.6	1.5		
	82 °	81	83	1		

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

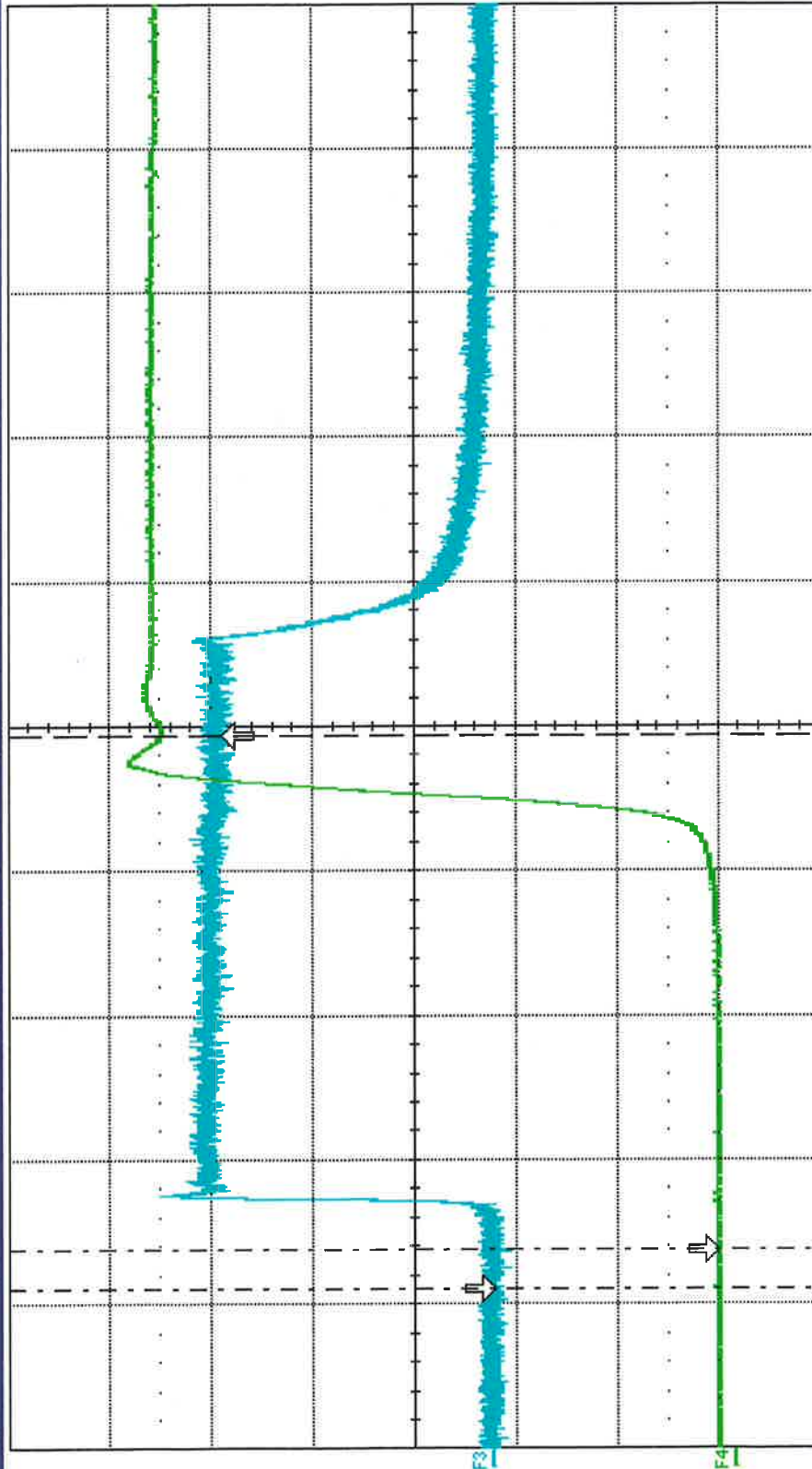
50 MS/s
☐ NORMAL

Ext10 DC 0.15 V 50Ω



C1	DCIM	5.00 mV/div	13.00 mV offset	1	-12.65 mV	2	-2.33 mV	Δy	10.32 mV	
C4	DCIM	5.00 mV/div	8.00 mV offset	1	-3.04 mV	2	2.31 mV	Δy	5.35 mV	
Math	<C1>	3.00 mV/div	200 μ s/div	35 #	1	-12.4777 mV	2	-2.4114 mV	Δy	10.0664 mV

Timebase	-796 μ s	Trigger	Ext10 DC
2.00 MS	200 μ s/div	Normal	700 mV
	1.0 GS/s	Edge	Negative
X1=	1.795999 ms	$\Delta X=$	-1.982532 ms
X2=	-186.533 μ s	1/ $\Delta X=$	-504.4055 Hz



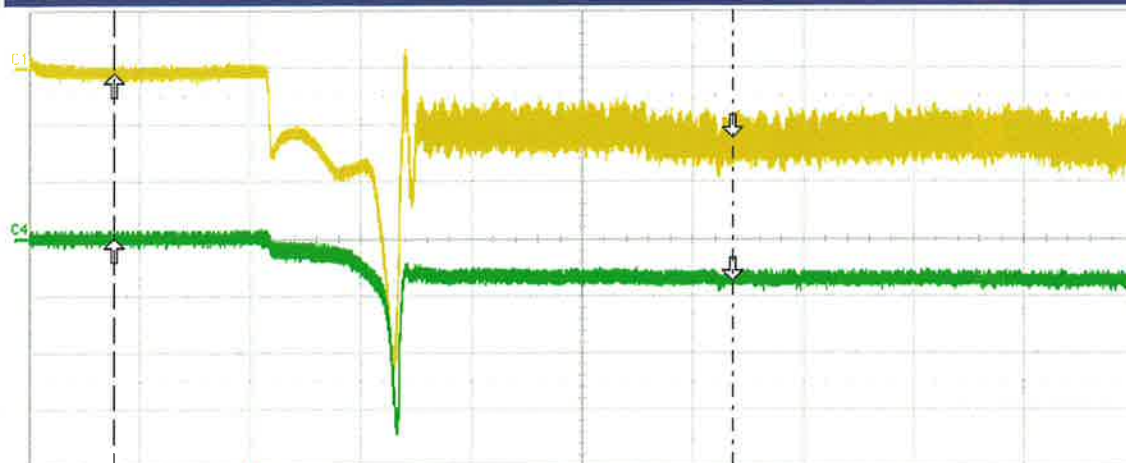
F3 script(C3,C2) **F4** <F3>

1.00/div	500e-3/div
1.00 ms/div	200 μs/div
3e-3	83 #
2.659	90.81e-3
Δy	Δy

Tbase -3.96 ms **Trigger** Ext10 DC

Waveform	Normal	30 mV
50.0 kS	5.0 MS/s	Edge Negative

X1= 63.6 μs ΔX= 3.8298 ms
X2= 3.8934 ms 1/ΔX= 261.11 Hz



Measure	P1:amp(C1)	P2:amp(C4)	P3:---	P4:---	P5:---	P6:---
value	572 mV	356 V				
mean	574.56 mV	344.11 V				
min	534 mV	70 V				
max	603 mV	366 V				
sdev	13.67 mV	37.46 V				
num	57	57				
status	.fl	.fl				

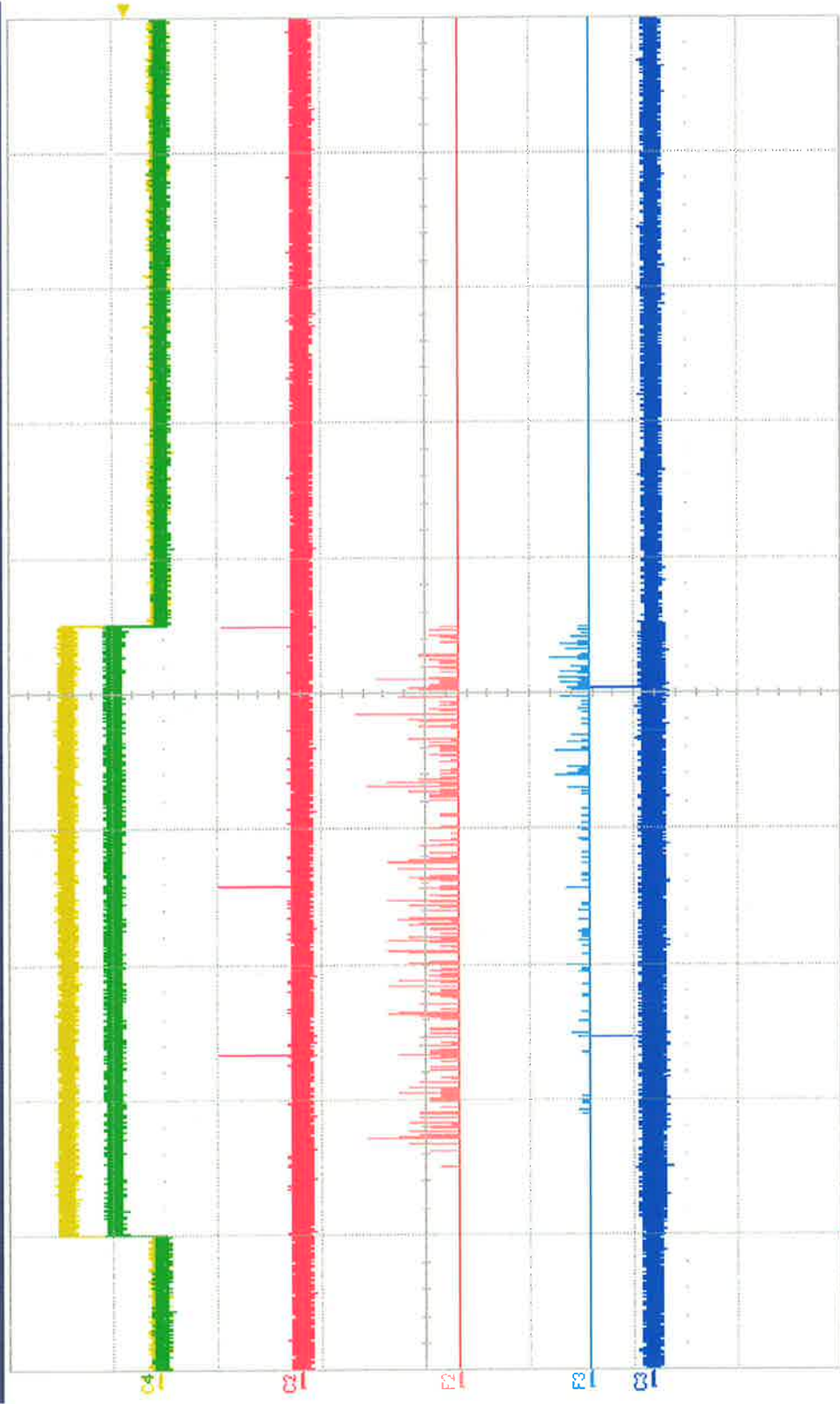
C1	C4
100 mV/div	100 V/div
250.0 mV/div	0.0 V/div
-114.9 mV	-71.3 V
-3.5 mV	-1.8 V
ay -106.4 mV	ay 70.2 V

LeCroy

Timebase	Trigger
-1.50 ms	20.00
500 μs/div	Normal
250 kS	50 MS/s
	Edge
	Positive

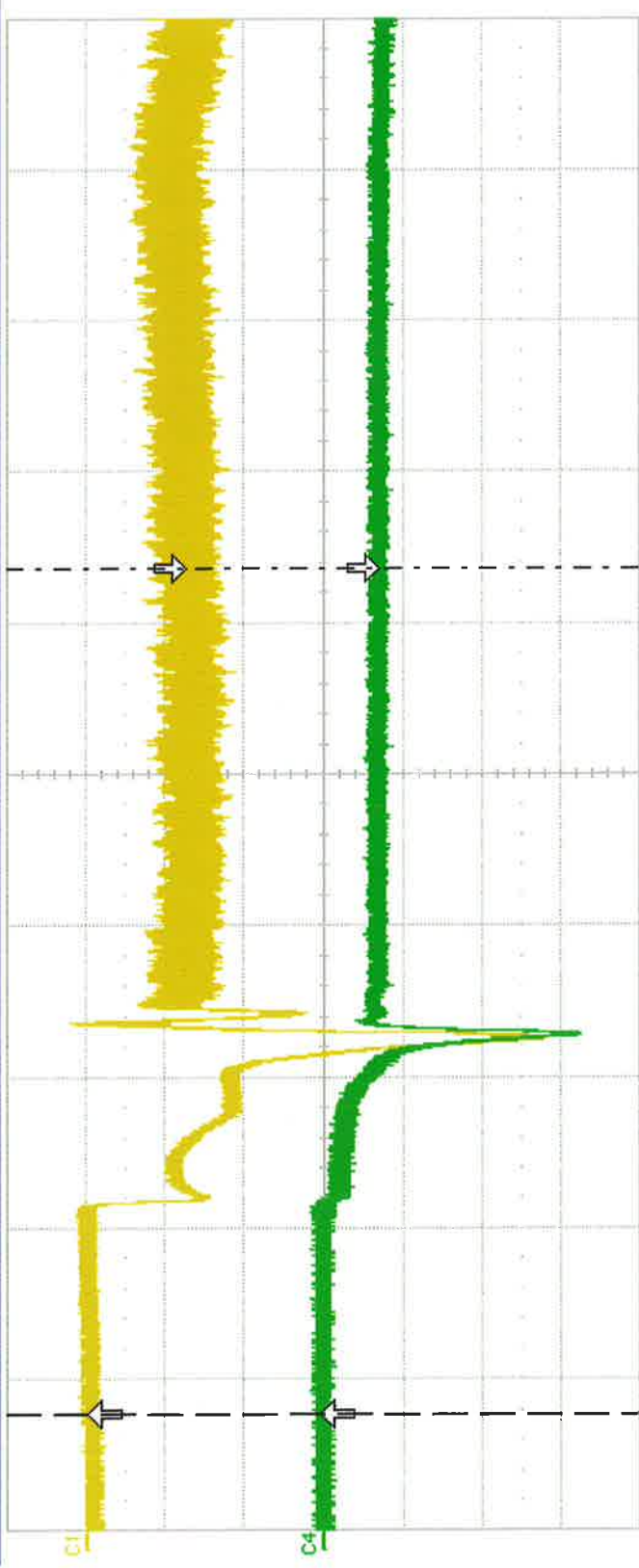
X1= 2.16204 ms ΔX= -2.79602 ms
X2= -613.98 μs 1/ΔX= -357.651 Hz

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Tbase -4.00 ms
1.00 ms/div
500 kS
Trigger Normal
Edge
Positive

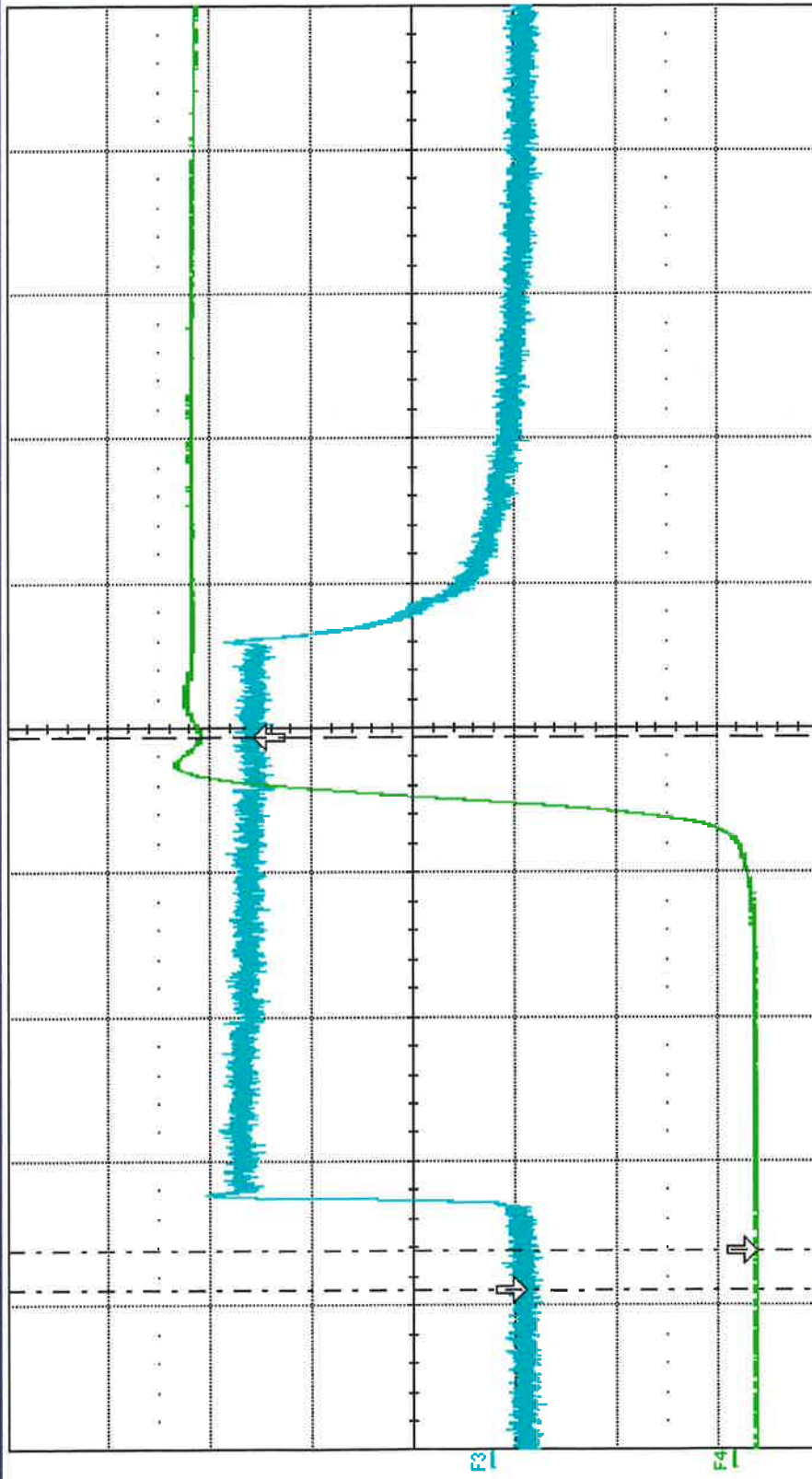
C1 5.00 V 12.70 V
C2 5.00 V 5.95 V
C3 5.00 V -11.0 V
C4 10.0 V 25.30 V
F2 peris... 10.0 # 1.0 ms 603 #
F3 peris... 50.0 # 1.0 ms 694 #



Measure		P1:--	P2:--	P3:--	P4:--	P5:--	P6:--
value	P1:ampl(C1)	341 V					
mean		347.92 V					
min		70 V					
max		366 V					
sdev		22.18 V					
num		187					
status		5.					

Timebase	-1.50 ms	Trigger	Est DC
250 kS	500 μ S/div	Normal	150 mV
	50 MS/s	Edge	Positive
X1=	2.18204 ms	Δ X=	-2.79602 ms
X2=	-613.98 μ s	1/ Δ X=	-357.651 Hz

C1	DCIM	100 mV/div	0.0 V ofset	-57.3 V	800 mV	68.1 V
C4	DCIM	100 mV/div	0.0 V ofset	-57.3 V	800 mV	68.1 V
		296.0 mV ofst				
		-121.4 mV				
		-2.2 mV				
Δ y		119.2 mV				



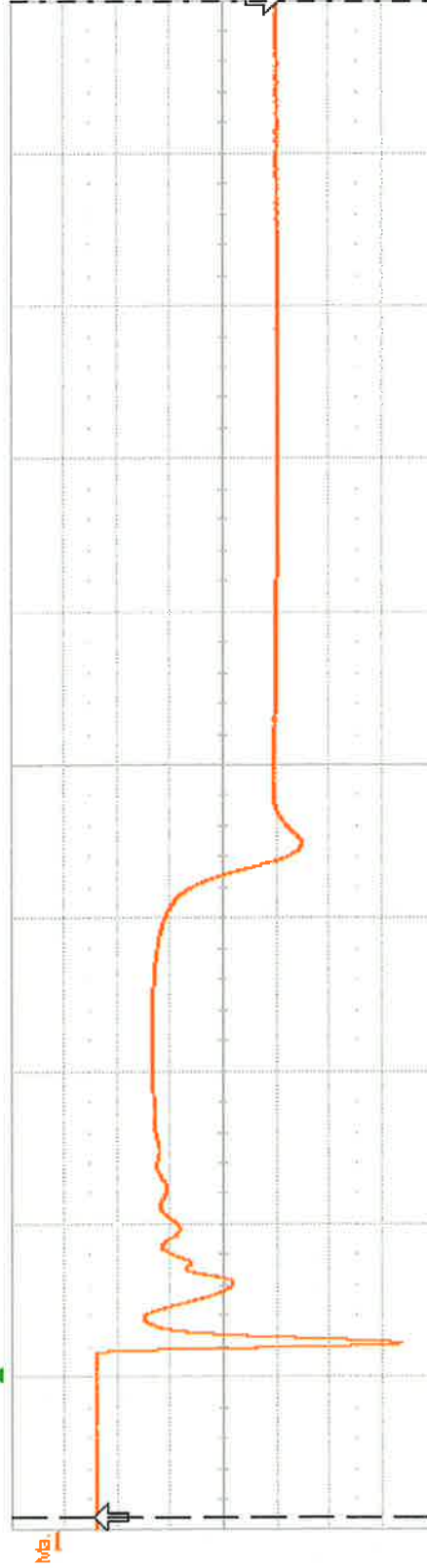
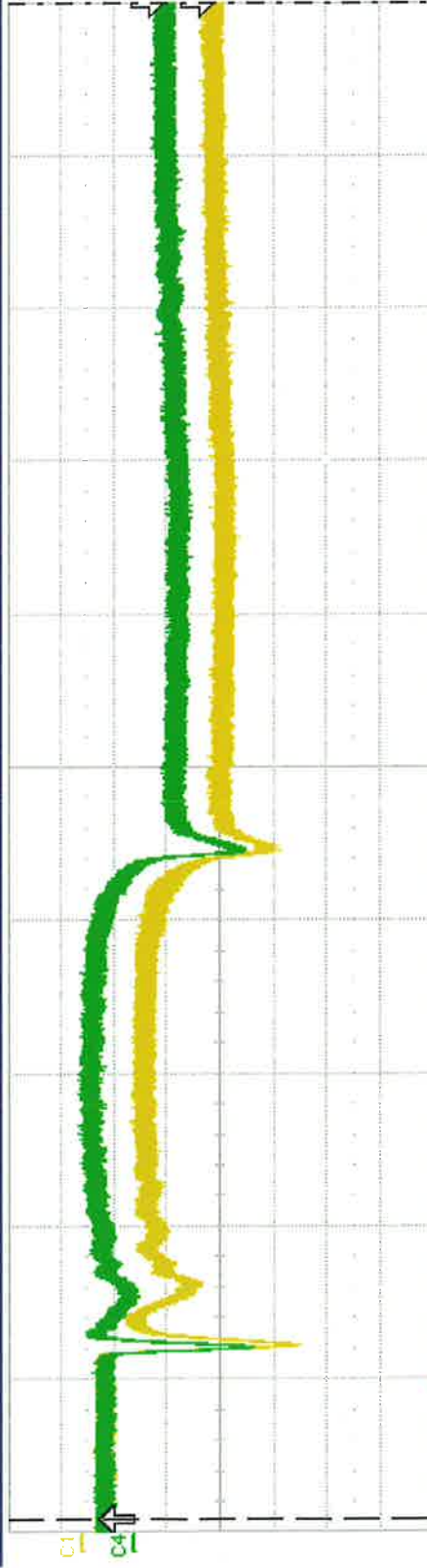
F3 script(C3,C2) **F4** **<F3=**

1.00/div	500e-3/div	500e-3/div
1.00 ms/div	200 μs/div	200 μs/div
	276 #	276 #
	-321e-3	-99.43e-3
	2.338	
Δy	2.658	Δy

Tbase **-3.96 ms** **Trigger Ext/IO DC**

Waveform	1.00 ms	Normal	30 mv
50.0 kS	5.0 MS/s	Edge	Negative

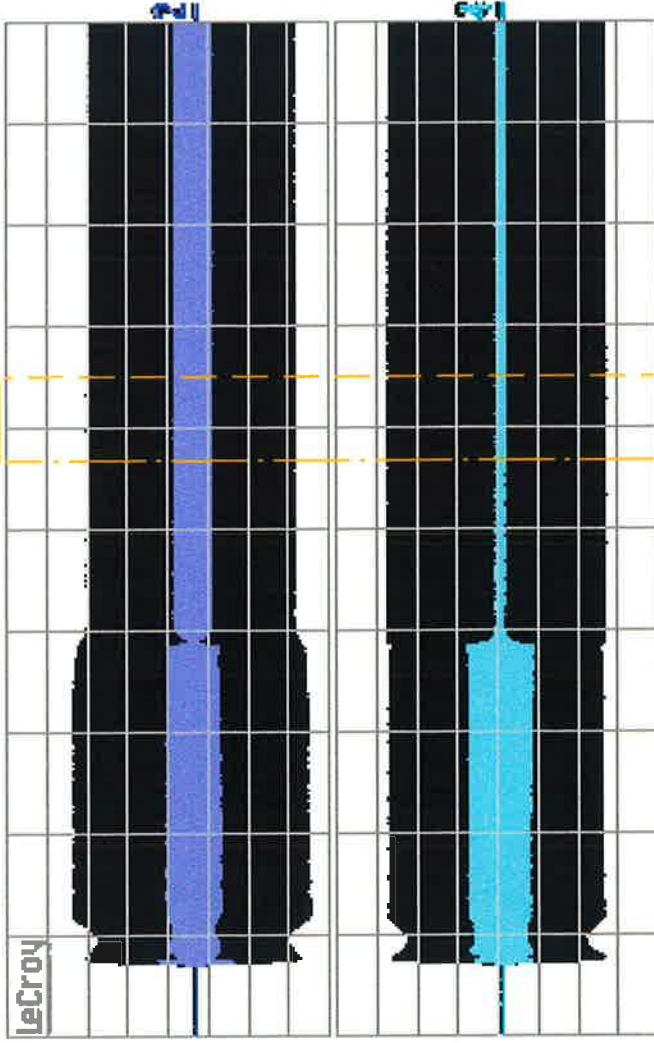
X1= 63.6 μs ΔX= 3.8298 ms
X2= 3.8934 ms 1/ΔX= 261.11 Hz



C1	C4	Math	<C1>
5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
13.00 mV/div	8.00 mV/div	200 µs/div	200 µs/div
-12.22 mV	-2.64 mV	234 #	234 #
-1.82 mV	3.09 mV	↑	↑
10.40 mV	5.73 mV	Δy	Δy

Timebase	-796 µs	Trigger	Edge
2.00 MS	200 µs/div	Normal	Edge
X1= 1.795999 ms	1.0 GS/s	ΔX= -1.982532 ms	Negative
X2= -186.533 µs		1/ΔX= -504.4055 Hz	

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10:04:54



1
.2 ms
200 mV

2
.2 ms
200 mV

3
.2 ms
200 mV

4
.2 ms
200 mV

.2 ms

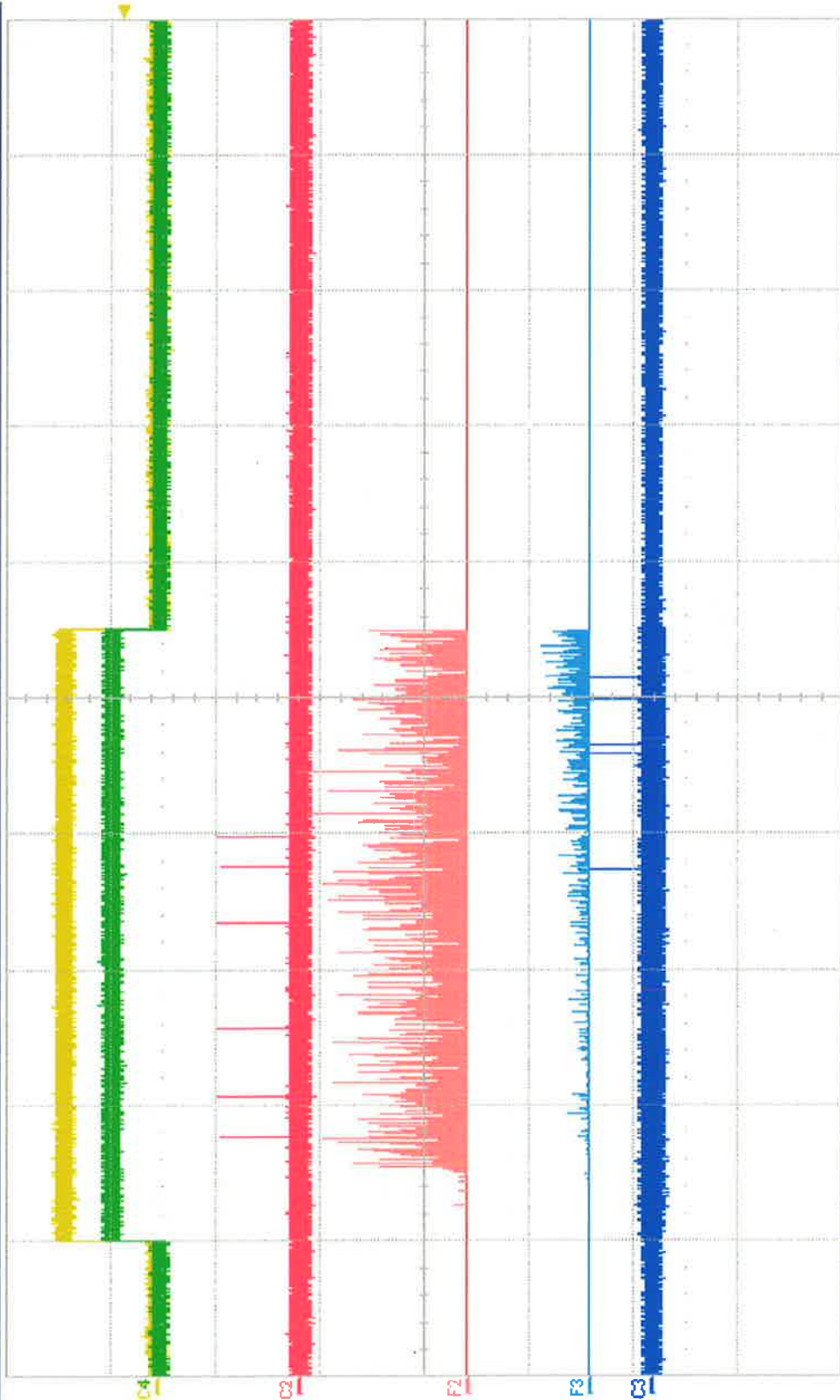
1 .2 V AC
2 .2 V AC
3 .2 V AC
4 .2 V AC

224 sweeps:				
rms(1)	average	low	high	sigma
rms(2)	363.0 mV	359.8	367.6	1.5
rms(3)	62.9 mV	61.3	64.7	0.7
rms(4)	377.0 mV	374.6	381.0	1.3
phase(1,3)	19.2 mV	15.3	23.2	2.0
	82 °	80	84	0

50 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL



Tbase -4.00 ms
1.00 ms/div
500 kS
Trigger Normal
Edge
1.65 V
Positive

F3 peris...
100 #
1.0 ms
4.22 k#

F2 peris...
20.0 #
1.0 ms
4.89 k#

C4 D1
10.0 V
25.30 V

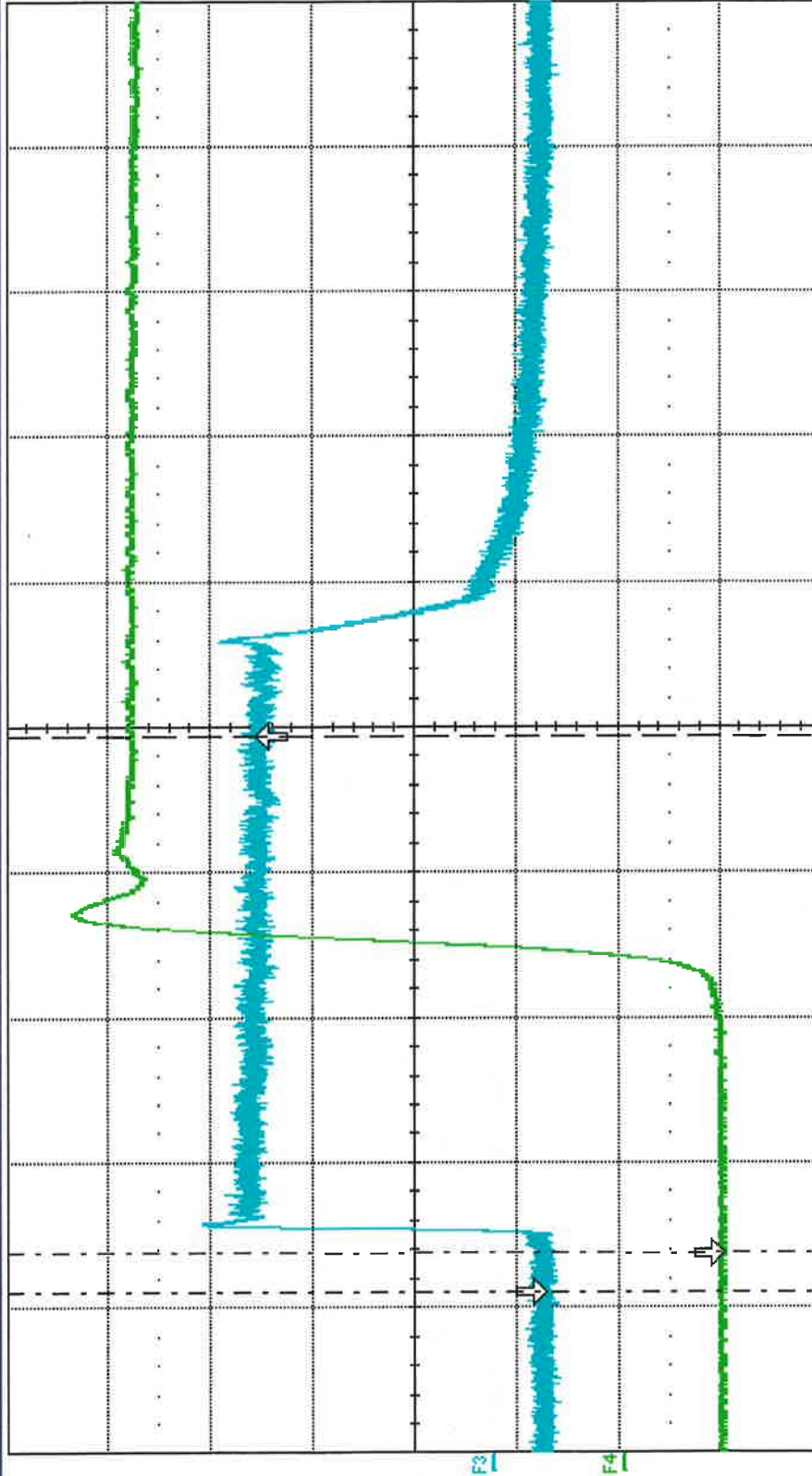
C3 D1
5.00 V
-11.0 V

C2 D1
5.00 V
5.95 V

C1 D1
5.00 V
12.70 V

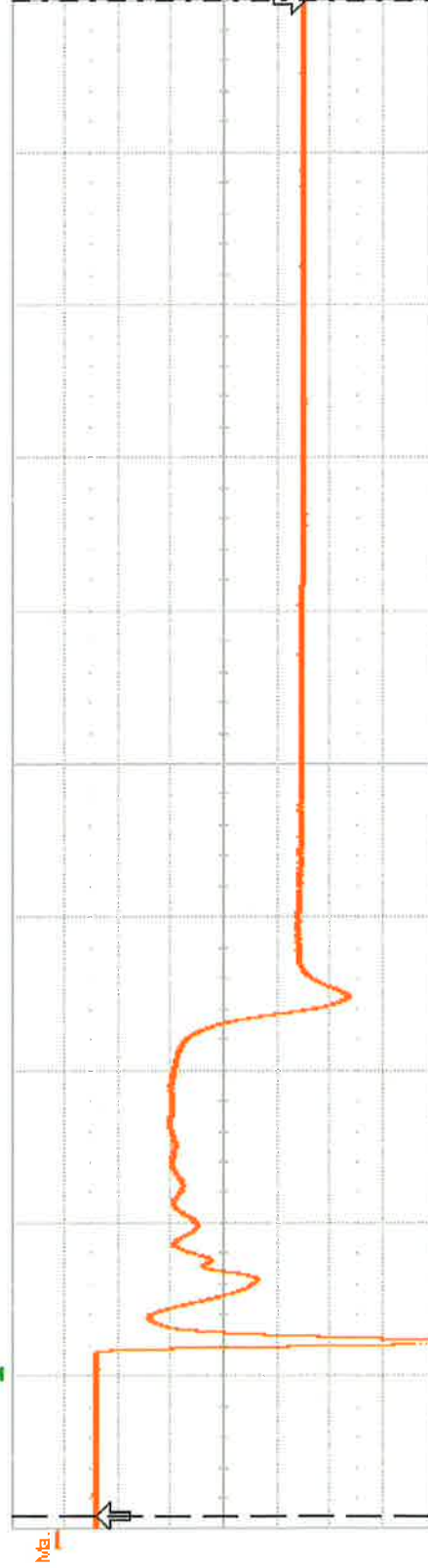
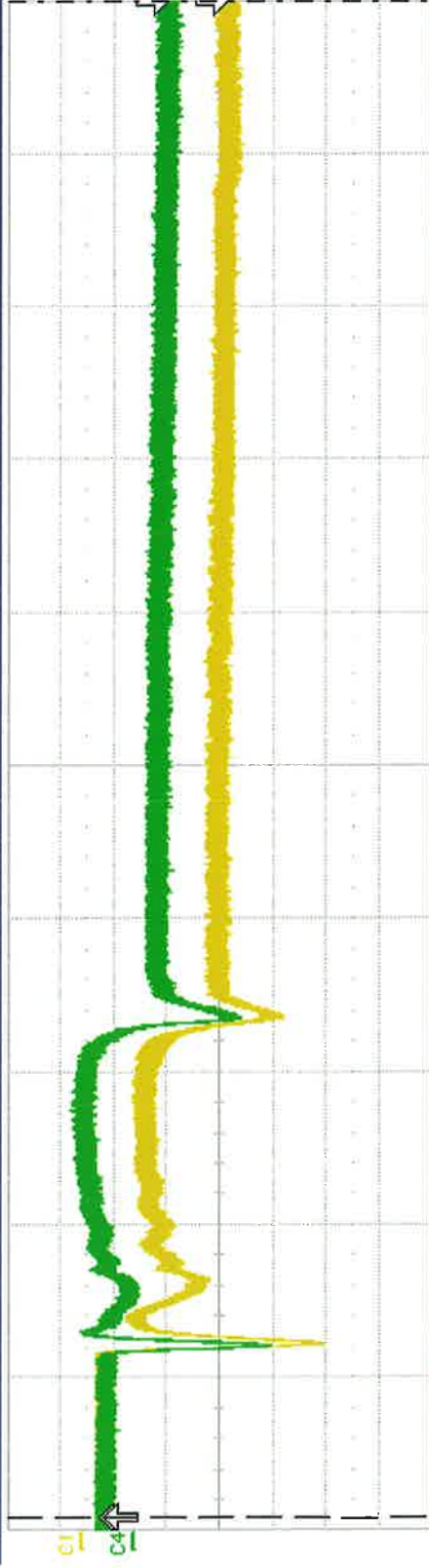
TELEDYNE LECROY

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F3 script(C3,C2) F4 <F3>
 1.000div 500e-3/div
 1.00 ms/div 200 ps/div
 -501e-3 42 #
 2.322 -485.10e-3
 Δy 2.823 Δy

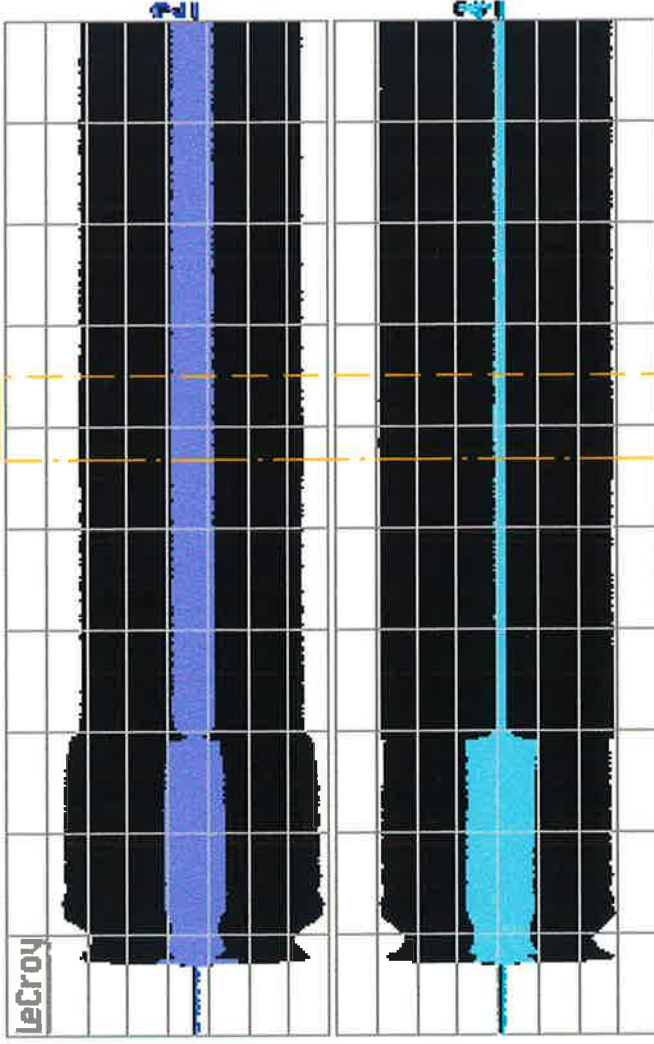
Tbase -3.96 ms Trigger Ext10 DC
 WStream 1.00 ms Normal 30 mV
 50.0 kS 5.0 MS/s Edge Negative
 X1= 63.6 μs ΔX= 3.8298 ms
 X2= 3.8934 ms 1/ΔX= 261.11 Hz



C1	DCIM	C4	DCIM	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	3.00 mV/div		
13.00 mV ofst	8.00 mV ofst	8.00 mV ofst	200 μ s/div		
13.65 mV	-3.00 mV	-13.8957 mV	41 #		
-2.00 mV	2.73 mV	-2.2533 mV			
11.65 mV	5.73 mV	11.6425 mV			
Δy	Δy	Δy			

Timebase	-796 μ s	Trigger	Ext10 DC
2.00 MS	200 μ s/div	Normal	700 mV
	1.0 GS/s	Edge	Negative
X1=	1.795999 ms	$\Delta X=$	-1.982532 ms
X2=	-186.533 μ s	1/ $\Delta X=$	-504.4055 Hz

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10:09:48



1
-2 ms
200 mV

2
-2 ms
200 mV

3
-2 ms
200 mV

4
-2 ms
200 mV

-2 ms

1 -2 V AC
2 -2 V AC
3 -2 V AC
4 -2 V AC

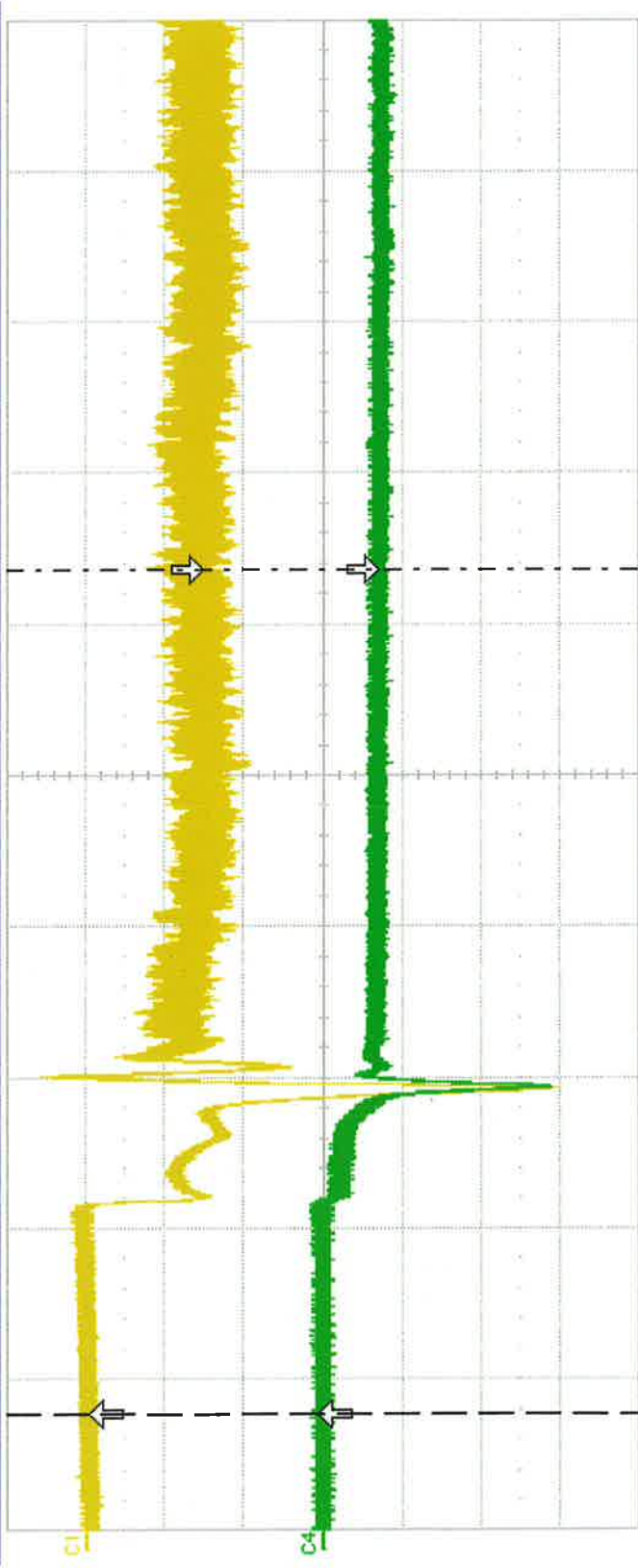
41 sweeps:

	average	low	high	sigma
rms(1)	385.9 mV	383.3	389.5	1.5
rms(2)	67.3 mV	66.0	68.4	0.6
rms(3)	397.8 mV	395.6	401.1	1.4
rms(4)	20.1 mV	16.3	23.8	1.9
phase(1,3)	82 °	80	83	0

Ext10 DC 0.15 V 50Ω

50 MS/s

☐ NORMAL



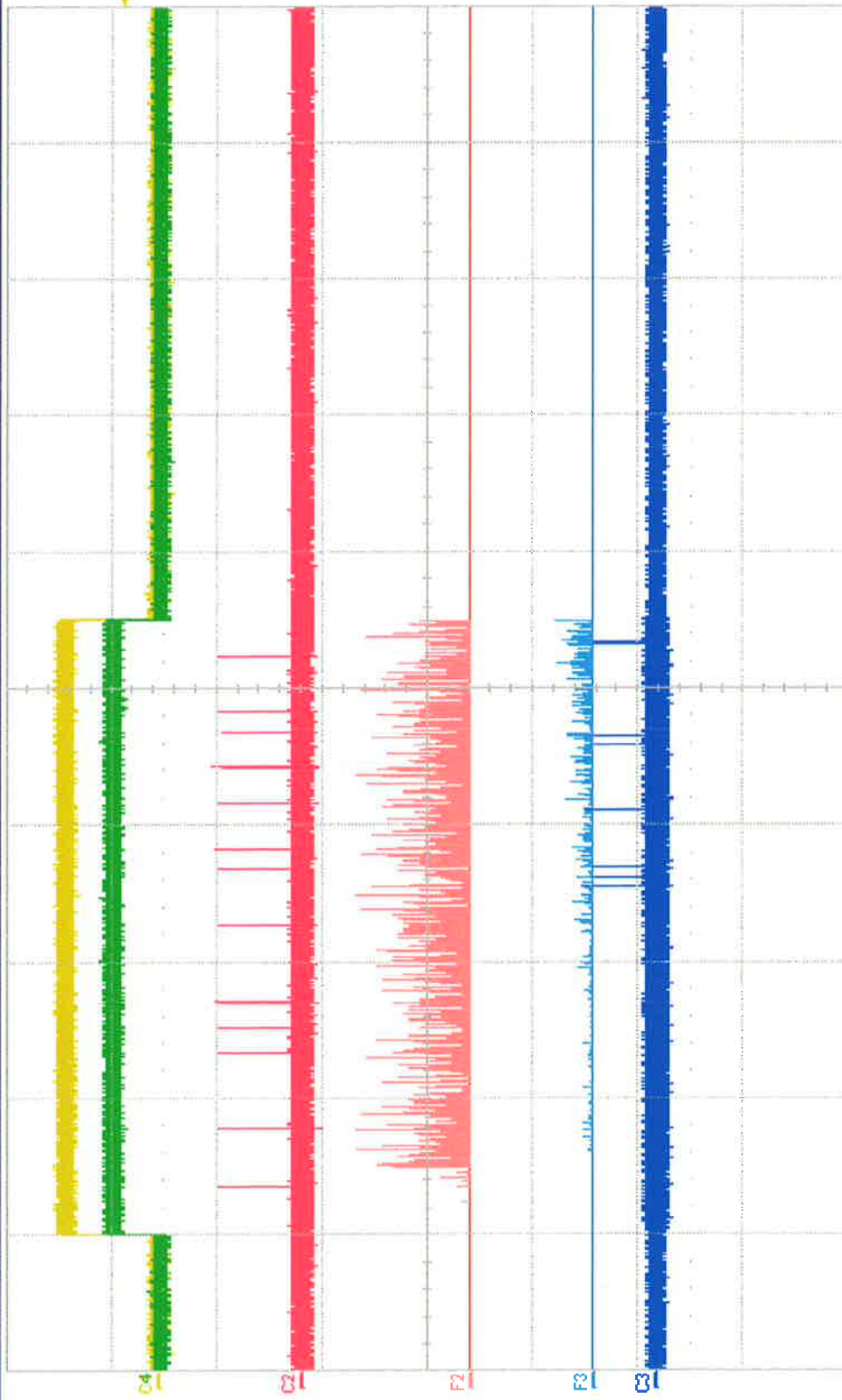
Measure		P1:--	P2:--	P3:--	P4:--	P5:--	P6:--
value		P1:ampl(C1)	P2:ampl(C4)				
mean		653 mV	306 V				
min		649.10 mV	306.65 V				
max		132 mV	297 V				
sdev		684 mV	325 V				
num		90.64 mV	5.12 V				
status		101	101				

C1
DCIM
100 mV/div
296.0 mV ofst
-143.5 mV
-3.7 mV
139.8 mV
ΔY

C4
DCIM
100 V/div
0.0 V ofst
-68.4 V
2.5 V
70.9 V
ΔY

Timebase
-1.50 ms
500 μs/div
250 kS
Trigger
Normal
Edge
Ext DC
150 mV
Positive

X1= 2.18204 ms
ΔX= -2.79602 ms
X2= -613.98 μs
1/ΔX= -357.651 Hz



Tbase -4.00 ms
1.00 ms/div
500 kS
Trigger C100
Normal 1.65 V
Edge Positive

F3 peris...
100 #
1.0 ms
2.56 k#

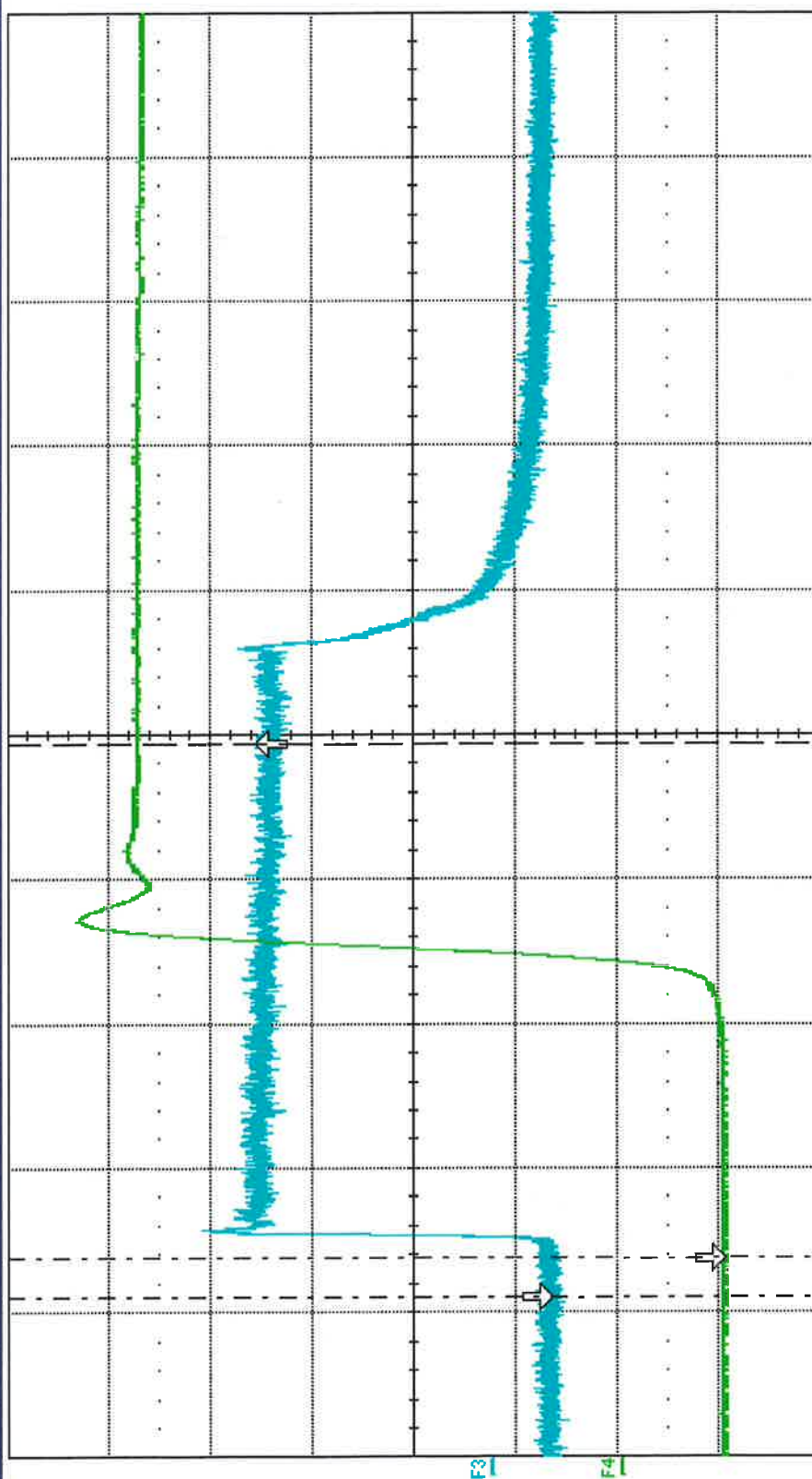
C4 D1
10.0 V
25.30 V

C3 D1
5.00 V
-11.0 V

C2 D1
5.00 V
12.70 V

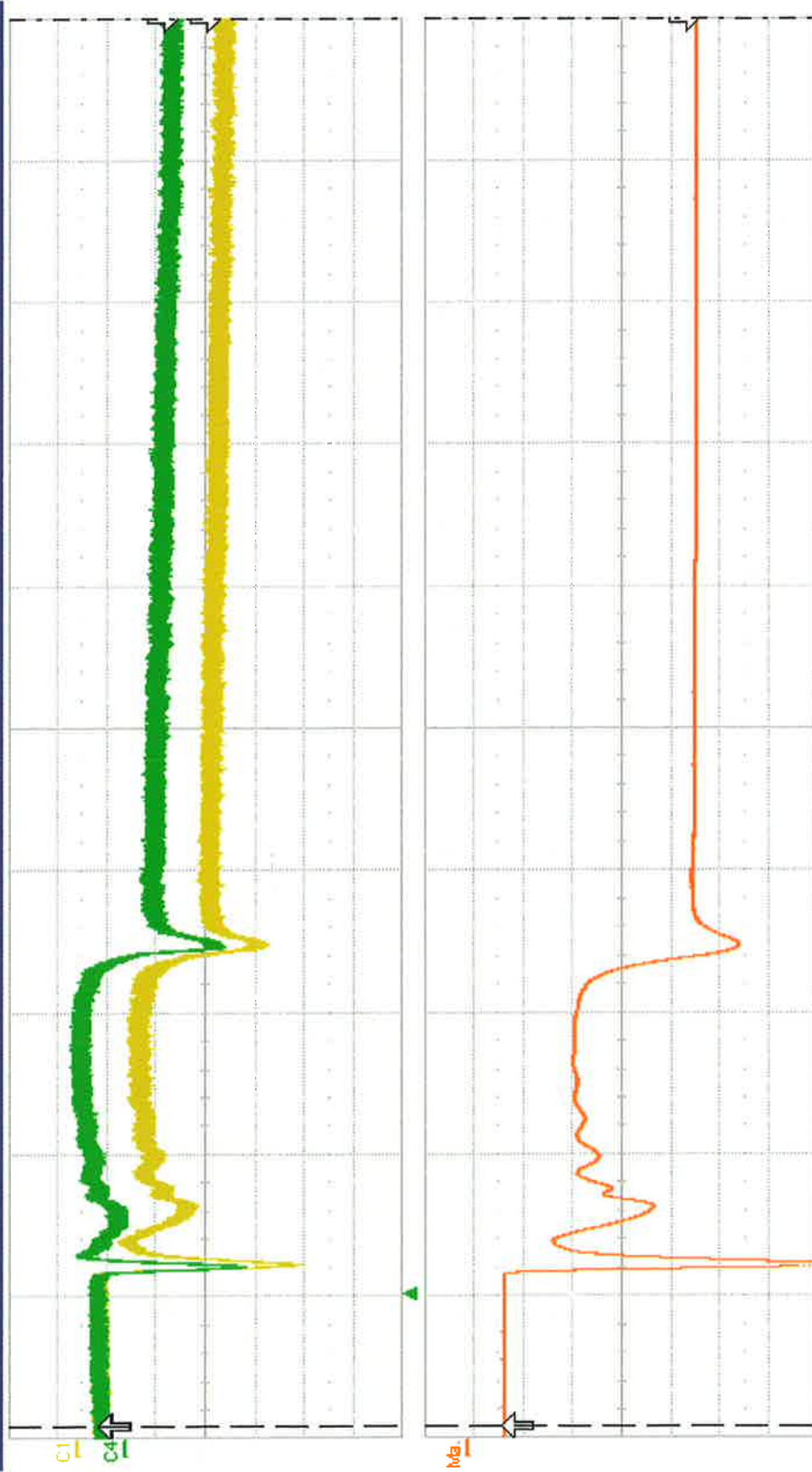
C1 D1
5.00 V
12.70 V

TELEDYNE LECROY
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Tbase -3.96 ms
 WStream 1.00 ms
 50.0 kS 5.0 MS/s
 Trigger Ext10 DC
 Normal 30 mV
 Edge Negative
 X1= 63.6 μ s Δ X= 3.8298 ms
 X2= 3.8934 ms 1/ Δ X= 261.11 Hz

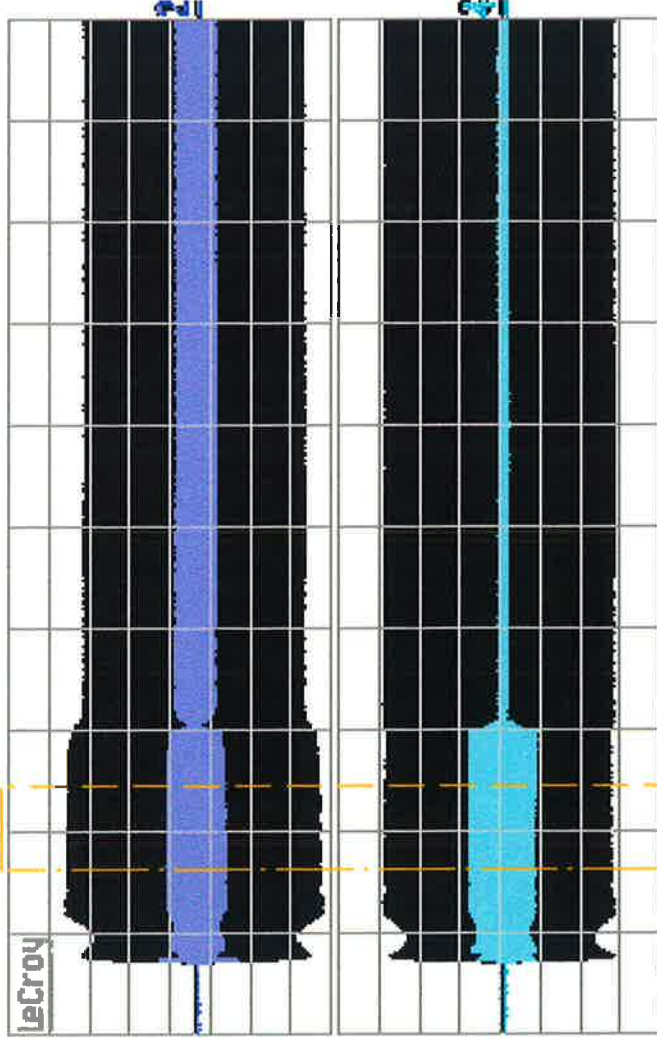
F3 script(C3,C2) 1.00/div 1.00 ms/div
 F4 -F3> 500e-3/div 200 μ s/div 123 #
 1 -576e-3 2.309
 2 -498.32e-3 2.685
 Δ y



C1	C4	Math	<C1>
5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
13.00 mV/div	8.00 mV/div	200 µs/div	200 µs/div
-14.28 mV	-5.06 mV	121 #	121 #
-2.52 mV	2.63 mV	↑	↑
Δy 11.76 mV	Δy 7.68 mV	Δy	Δy

Timebase	-796 µs	Trigger	Edge	700 mV	700 mV
2.00 MS	200 µs/div	Normal	Edge	Negative	Negative
X1=	1.795999 ms	ΔX=	-1.982532 ms		
X2=	-186.533 µs	1/ΔX=	-504.4055 Hz		

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10:11:14



1 .2 ms
200 mV

2 .2 ms
200 mV

3 .2 ms
200 mV

4 .2 ms
200 mV

.2 ms

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

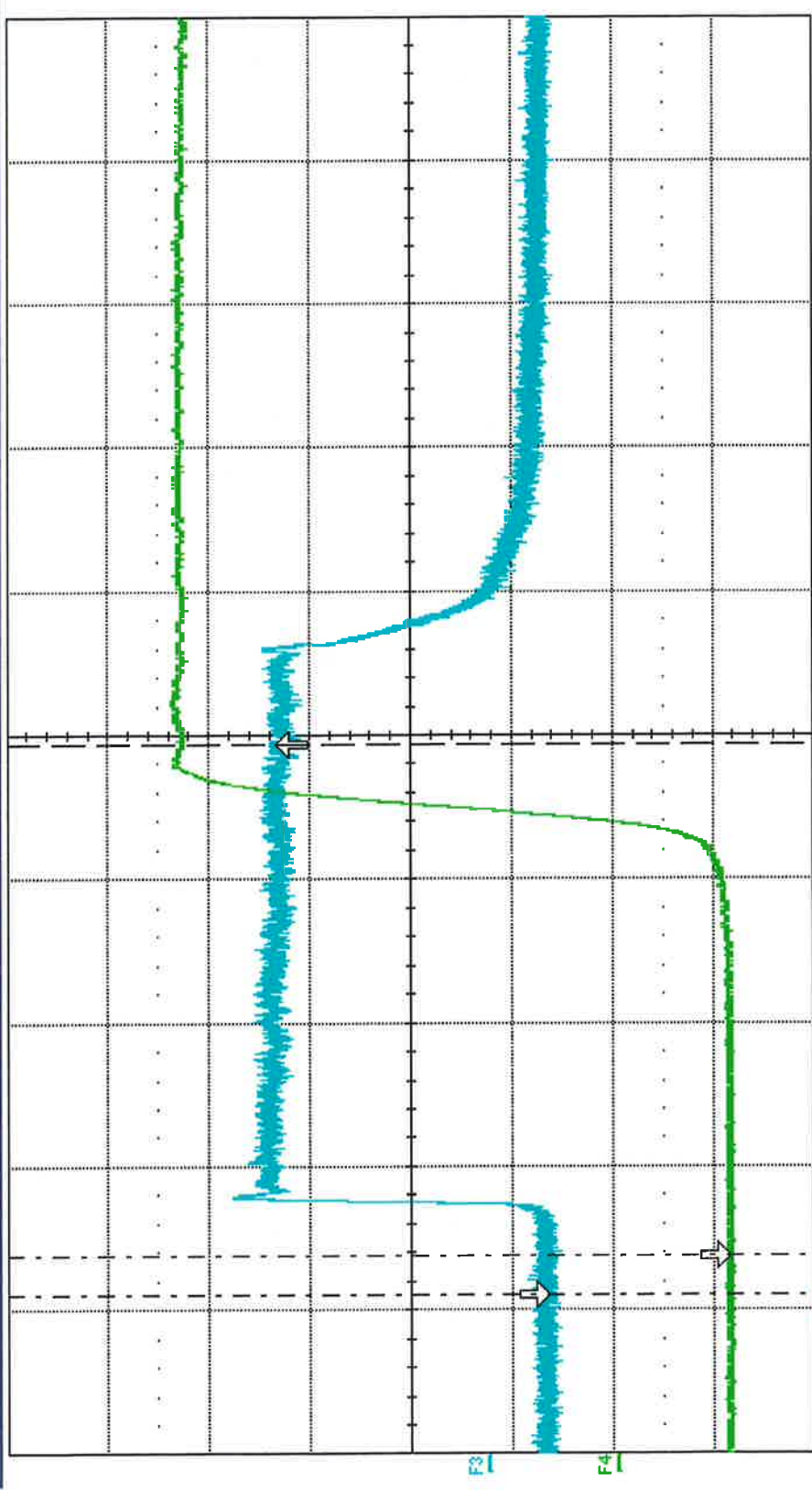
13 sweeps:

	average	low	high	sigma
rms(1)	442.8 mV	440.3	447.0	1.8
rms(2)	108.6 mV	107.7	109.3	0.5
rms(3)	392.3 mV	390.5	395.5	1.3
rms(4)	119.1 mV	117.9	120.6	0.8
phase(1,3)	78 °	76	80	0

Ext10 DC 0.15 V 50Ω

50 MS/s

☐ NORMAL



F3 script(C3,C2)

1	-573e-3	1
↑	2.095	↑
Δy	2.657	Δy

F4

500e-3/div	200 μs/div	44 #
500e-3	200 μs	44 #
-551.20e-3		

Tbase -3.96 ms

TriggerExtIO DC

WStream 1.00 ms

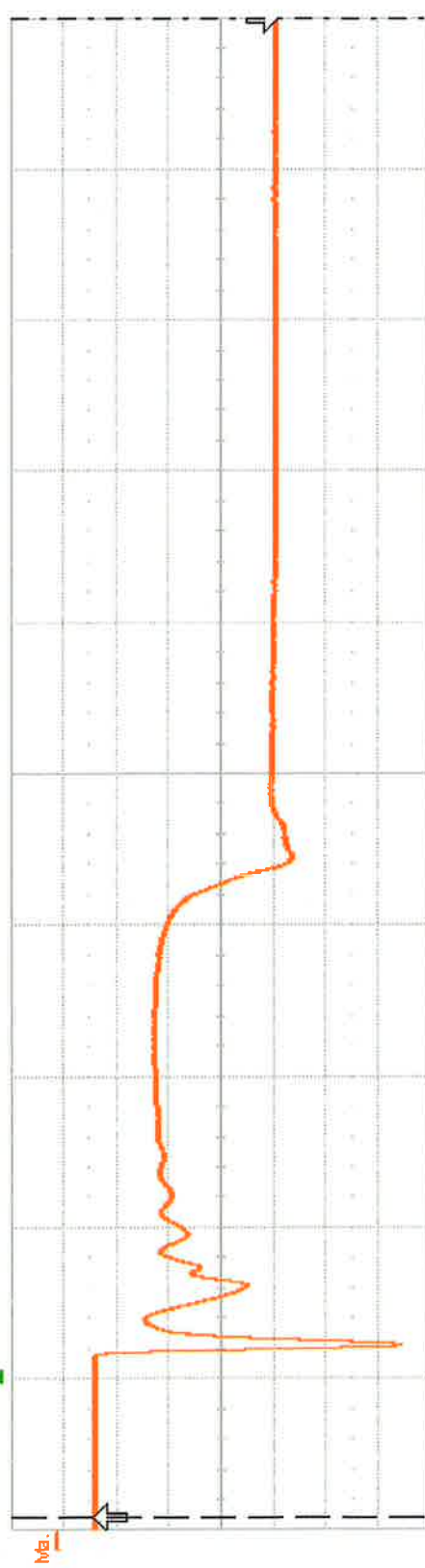
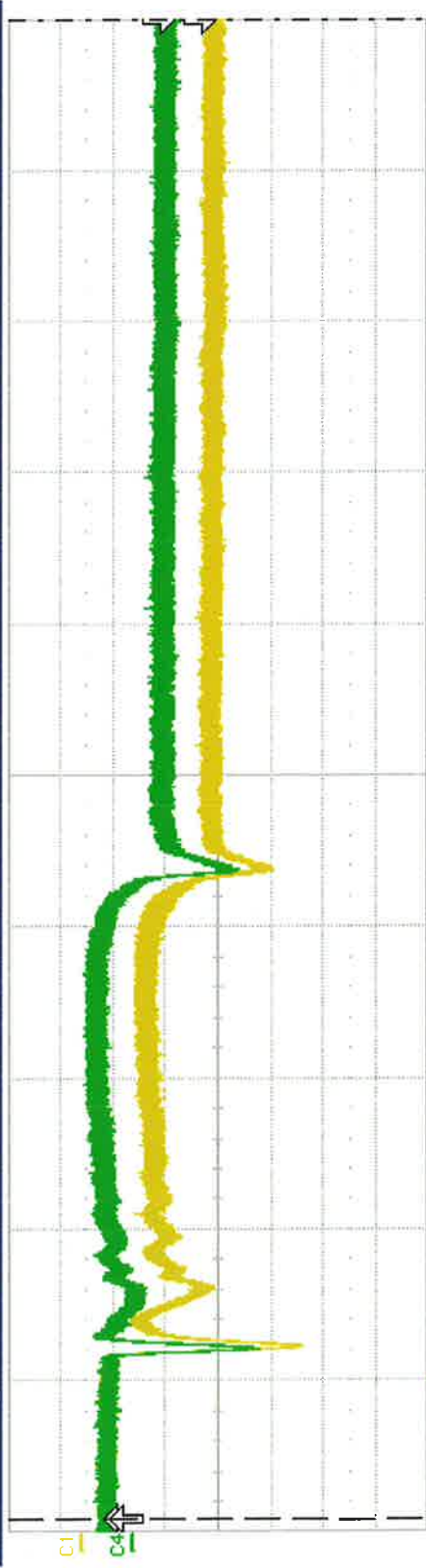
Normal 30 mV

50.0 kS 5.0 MS/s

Edge Negative

X1= 63.6 μs **ΔX=** 3.8298 ms

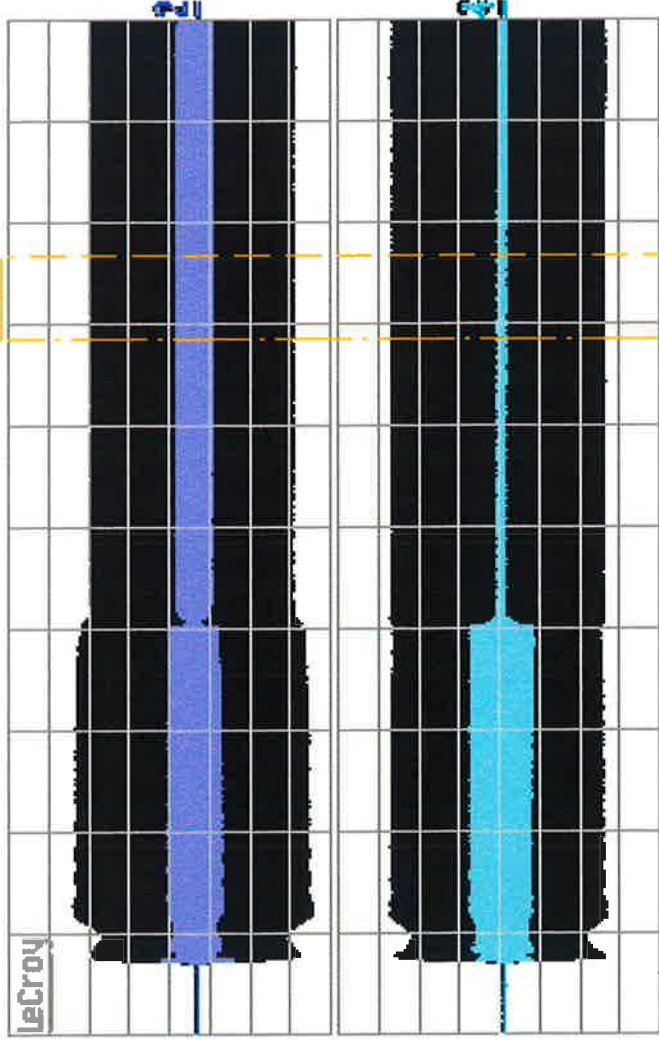
X2= 3.8934 ms **1/ΔX=** 261.11 Hz



C1	C4	Math	<C1>
5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
13.00 mV/div	8.00 mV/div	200 μ s/div	200 μ s/div
52 #	52 #		
-12.53 mV	-3.75 mV	-12.5856 mV	-12.5856 mV
-2.25 mV	2.16 mV	-2.1533 mV	-2.1533 mV
10.28 mV	5.91 mV	10.4322 mV	10.4322 mV
Δy	Δy	Δy	Δy

Timebase	-796 μ s	Trigger	Ext10 DC
2.00 MS	200 μ s/div	Normal	700 mV
	1.0 GS/s	Edge	Negative
X1=	1.795999 ms	$\Delta X=$	-1.982532 ms
X2=	-186.533 μ s	1/ $\Delta X=$	-504.4055 Hz

20-Oct-20
10:13:06



1
-2 ms
200 mV

2
-2 ms
200 mV

3
-2 ms
200 mV

4
-2 ms
200 mV

-2 ms

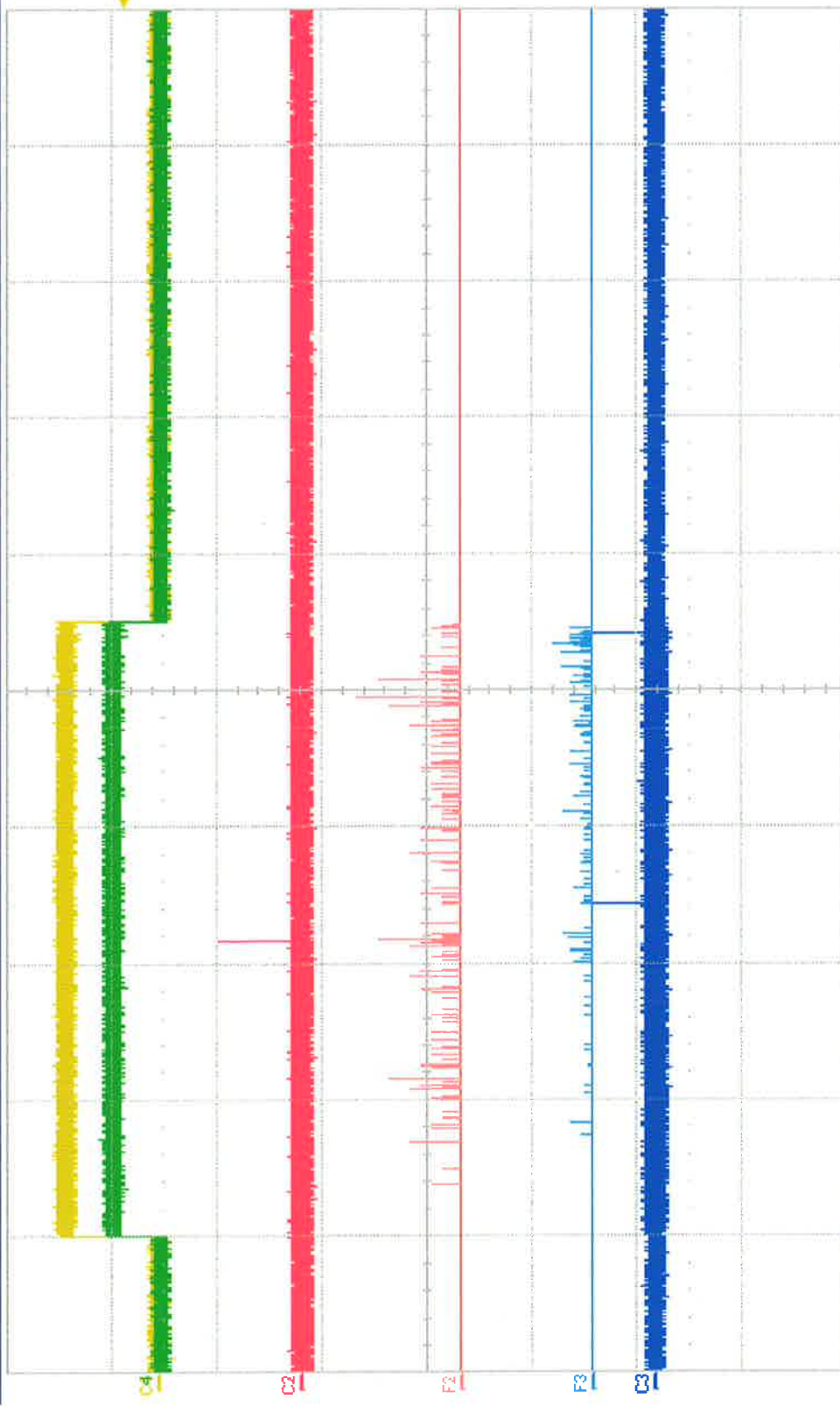
1 -2 V AC
2 -2 V AC
3 -2 V AC
4 -2 V AC

53 sweeps:						
rms(1)	average	low	high	sigma		
357.6mV	355.2	361.8	1.6			
61.1mV	59.7	62.9	0.6			
371.5mV	369.4	375.5	1.5			
18.9mV	15.1	22.5	1.9			
phase(1,3)	82 °	80	84	0		

50 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL



Timebase -4.00 ms Trigger C1:00
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

F3 peris... 50.0 #
 1.0 ms 703 #

F2 peris... 10.0 #
 1.0 ms 333 #

C4 C1 10.0 V 25.30 V

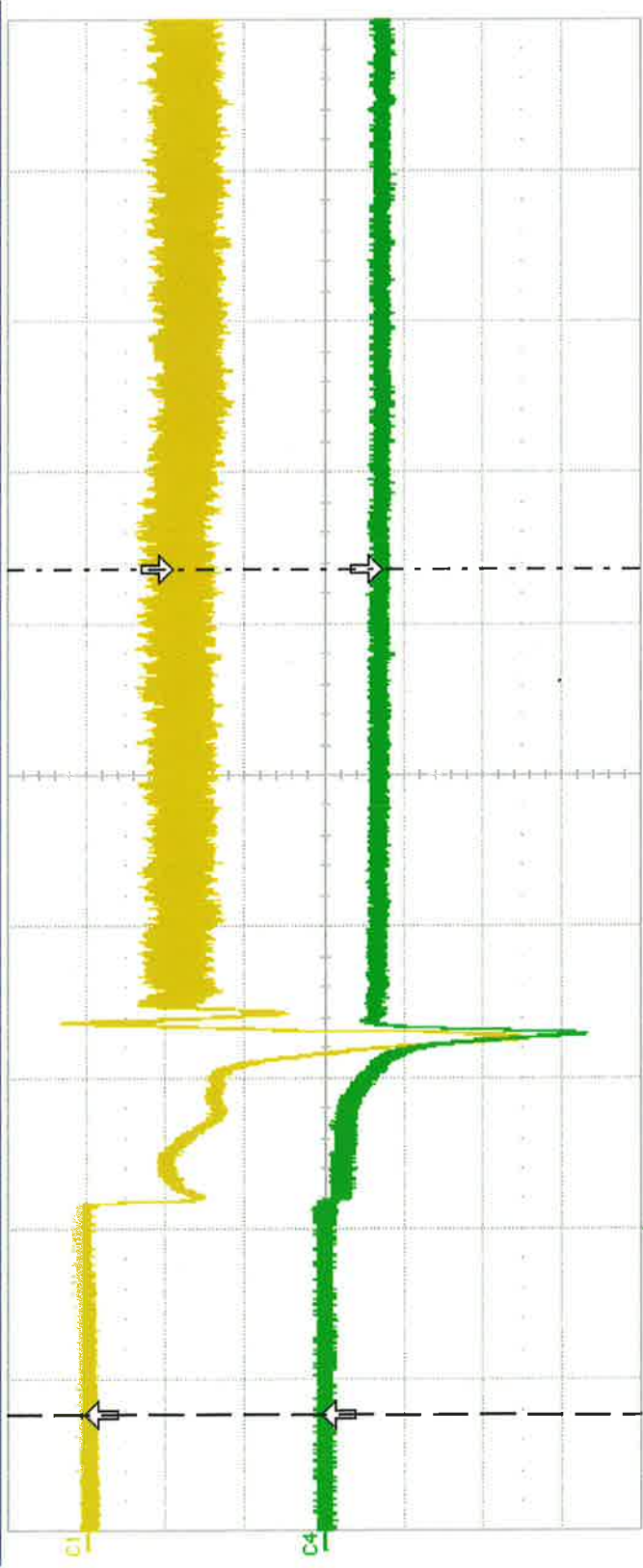
C3 C3 5.00 V -11.0 V

C2 C2 5.00 V 6.95 V

C1 C1 5.00 V 12.70 V

TELEDYNE LECROY

10/20/2020 10:14:27 AM



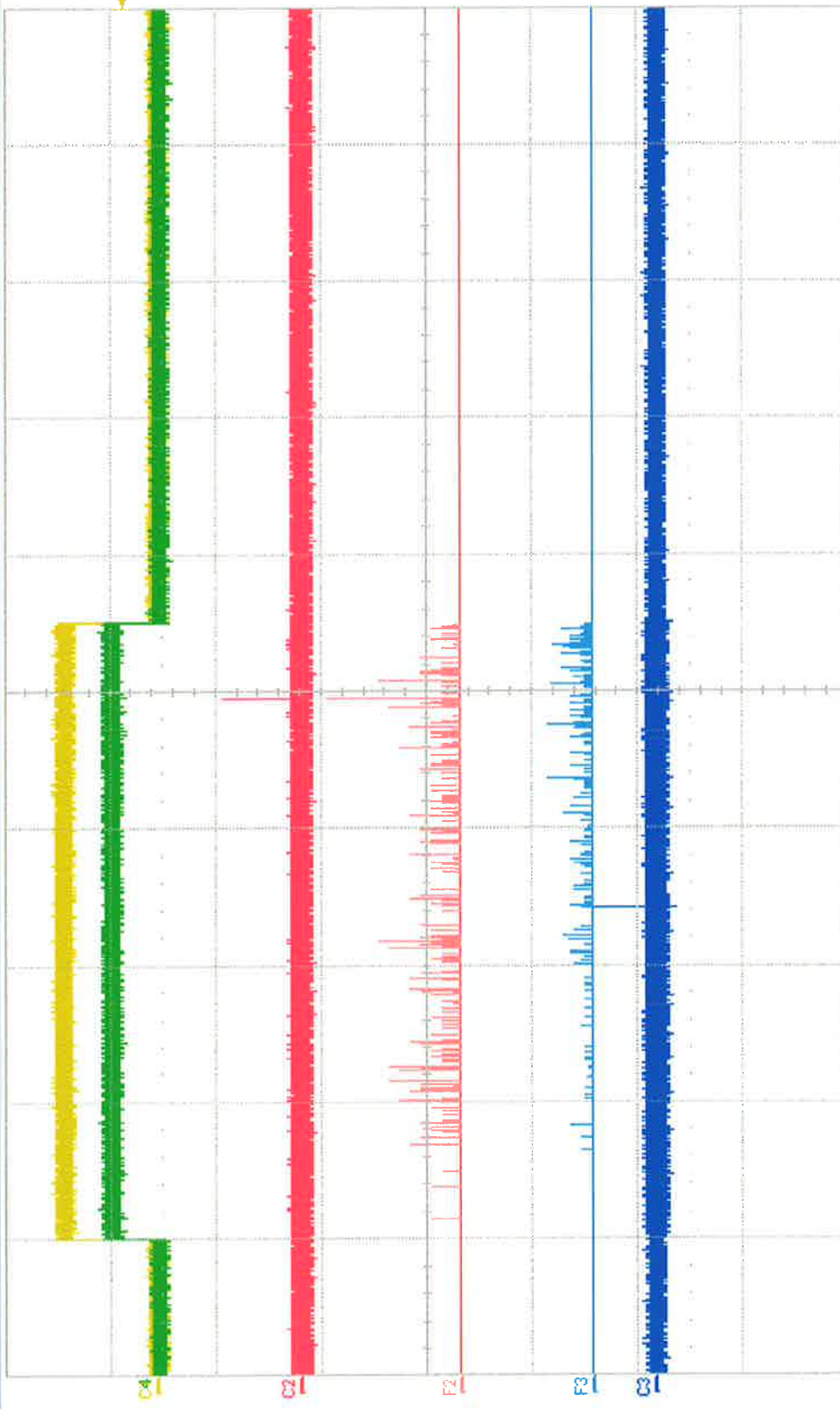
Measure		P1:ampl(C1)	P2:ampl(C4)	P3:---	P4:---	P5:---	P6:---
value		591 mV	347 V				
mean		565.14 mV	350.81 V				
min		104 mV	328 V				
max		609 mV	363 V				
sdev		54.71 mV	8.10 V				
num		81	81				
status		OK	OK				

C1
DCIM
100 mV/div
296.0 mV ofst
-103.2 mV
3.3 mV
106.4 mV
ΔY

C4
DCIM
100 V/div
0.0 V ofst
-70.2 V
0.0 V
70.2 V
ΔY

Timebase
-1.50 ms
500 μs/div
250 kS
Trigger
Normal
Edge
Ext DC
150 mV
Positive

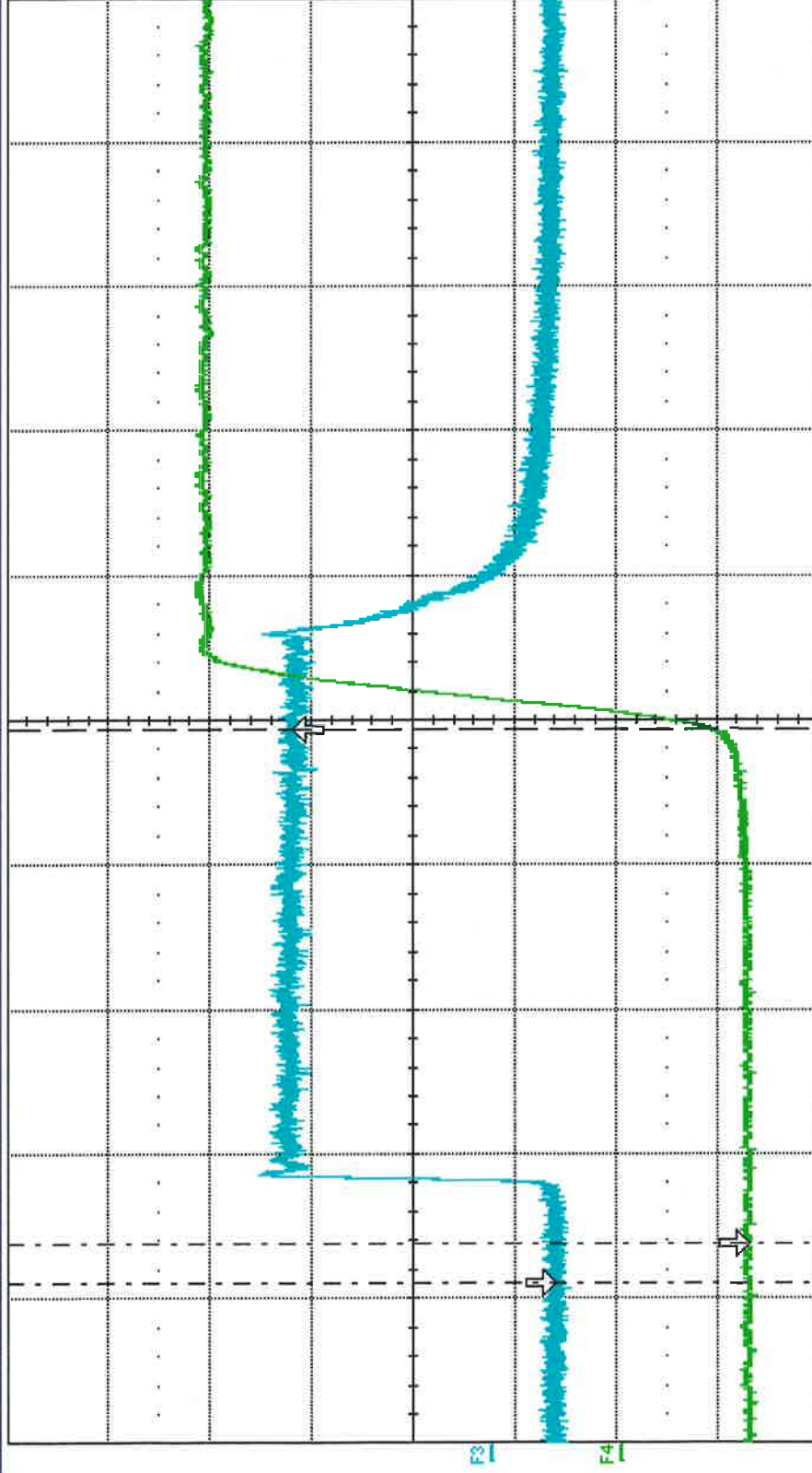
X1= 2.18204 ms
ΔX= -2.79602 ms
X2= -613.98 μs
1/ΔX= -357.651 Hz



C1	D1	5.00 V	12.70 V
C2	D2	5.00 V	5.95 V
C3	D3	5.00 V	-11.0 V
C4	D4	10.0 V	25.30 V
F2 peris...	F2 peris...	10.0 #	1.0 ms
F3 peris...	F3 peris...	50.0 #	1.0 ms
Tbase	-4.00 ms	Trigger	C1 D0
500 kS	1.00 ms/div	Normal	1.85 V
	50 MS/s	Edge	Positive

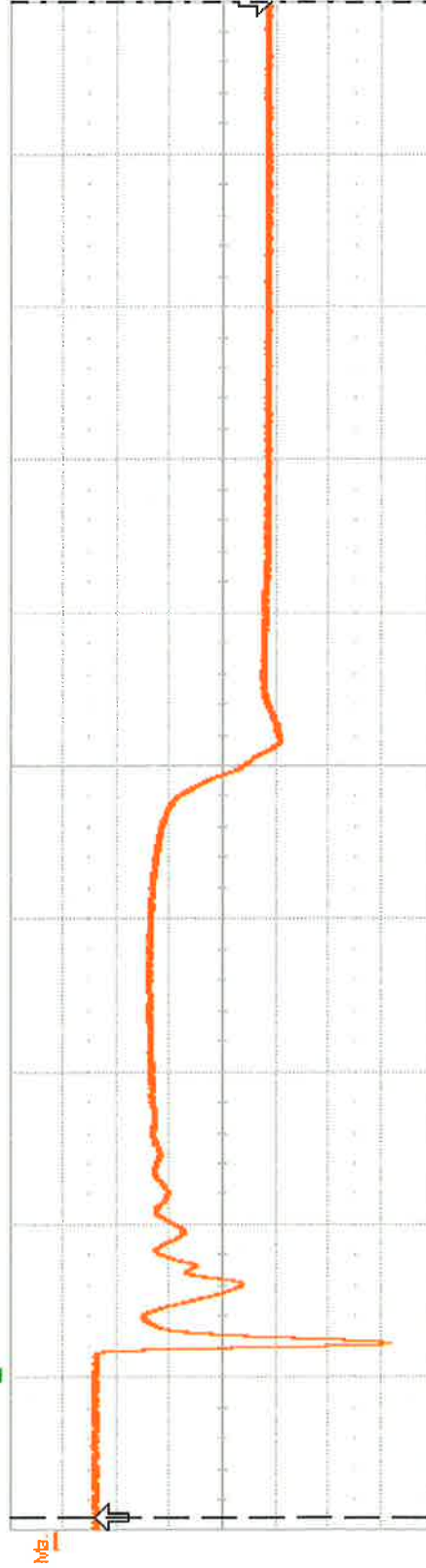
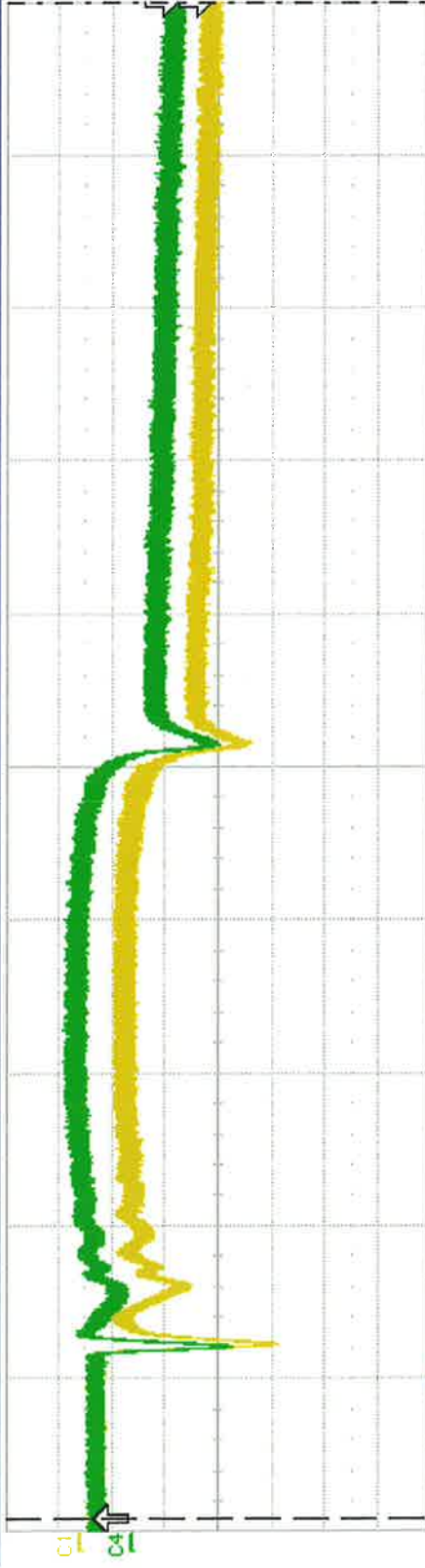
TELEDYNE LECROY

10/20/2020 10:15:03 AM



F3 script(C3,C2) 1.00/div 1.00 ms/div 1 -608e-3 1.956 2.563
 F4 <F3> 500e-3/div 200 µs/div 23 # -620.75e-3

Tbase -3.96 ms Trigger[Ext10] DC
 WStream 1.00 ms Normal 30 mV
 50.0 kS 5.0 MS/s Edge Negative
 X1= 63.6 µs ΔX= 3.8298 ms
 X2= 3.8934 ms 1/ΔX= 261.11 Hz

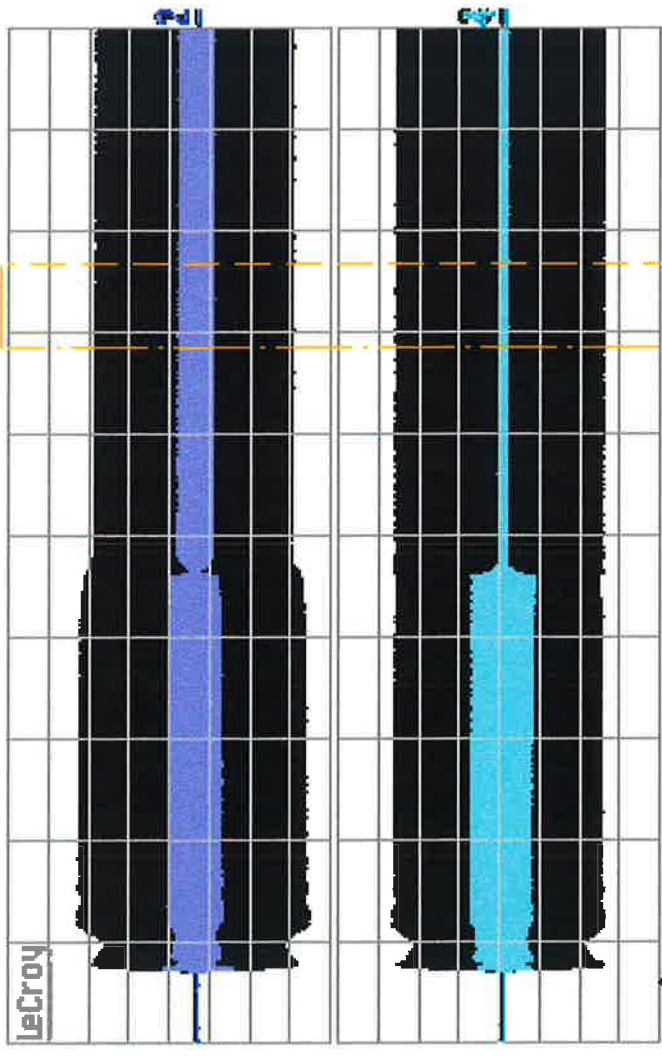


C1	C2	Math	<C1>
5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
13.00 mV offset	8.00 mV offset	200 μs/div	200 μs/div
Δx	Δx	31 #	31 #
↑ -11.98 mV	↑ -3.84 mV	↑ -12.0071 mV	↑ -12.0071 mV
↑ -1.40 mV	↑ 3.44 mV	↑ -2.2648 mV	↑ -2.2648 mV
Δy 10.58 mV	Δy 7.28 mV	Δy 9.7223 mV	Δy 9.7223 mV

Timebase	-796 μs	Trigger	Edge	Est. 10	DC
2.00 MS	200 μs/div	Normal	Edge	700 mV	Negative
	1.0 GS/s				

X1= 1.795999 ms ΔX= -1.982532 ms
X2= -186.533 μs 1/ΔX= -504.4055 Hz

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1
-2 ms
200 mV

2
-2 ms
200 mV

3
-2 ms
200 mV

4
-2 ms
200 mV

33 sweeps:

	average	low	high	sigma
rms(1)	346.8 mV	344.6	351.0	1.6
rms(2)	58.7 mV	57.2	59.7	0.6
rms(3)	361.7 mV	359.5	365.6	1.5
rms(4)	18.2 mV	14.7	21.7	2.1
phase(1,3)	82 °	80	84	1

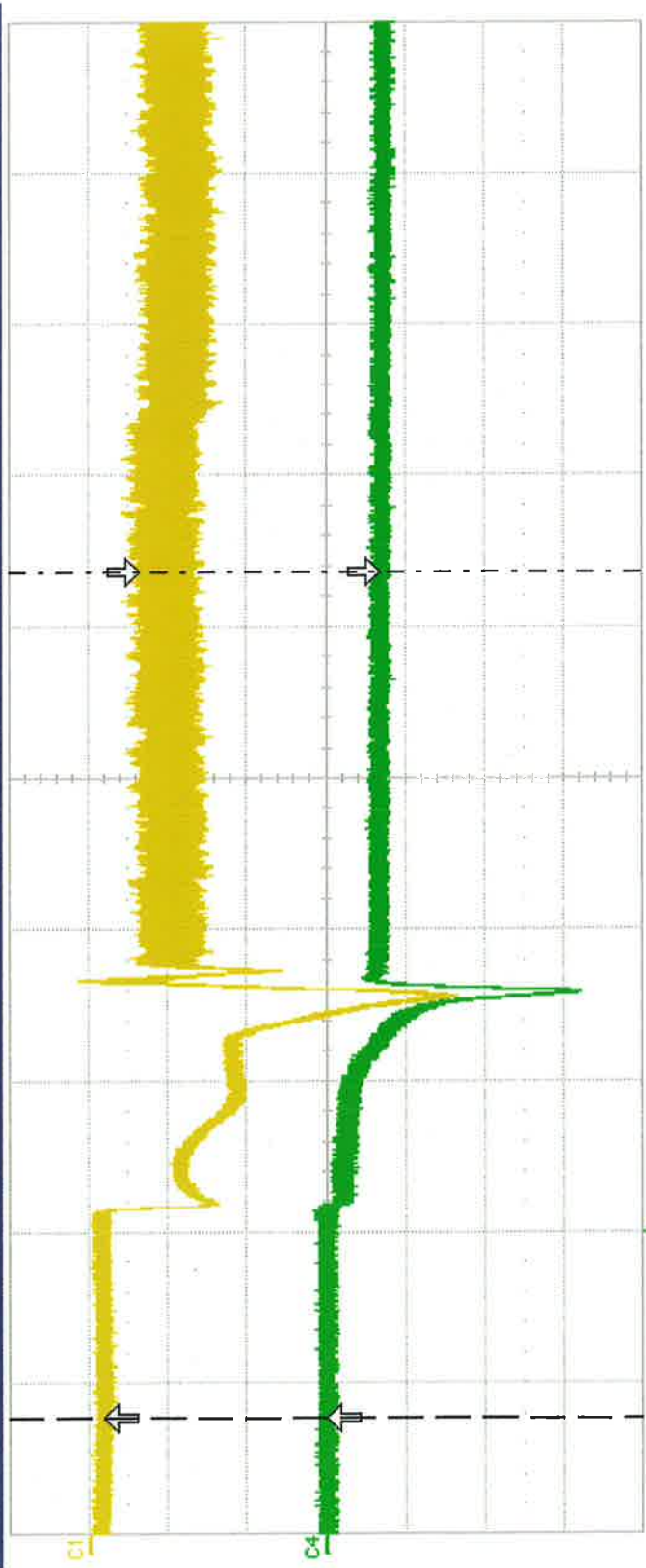
-2 ms

- 1 -2 V AC
- 2 -2 V AC
- 3 -2 V AC
- 4 -2 V AC

50 MS/s

Ext10 DC 0.15 V 50Ω

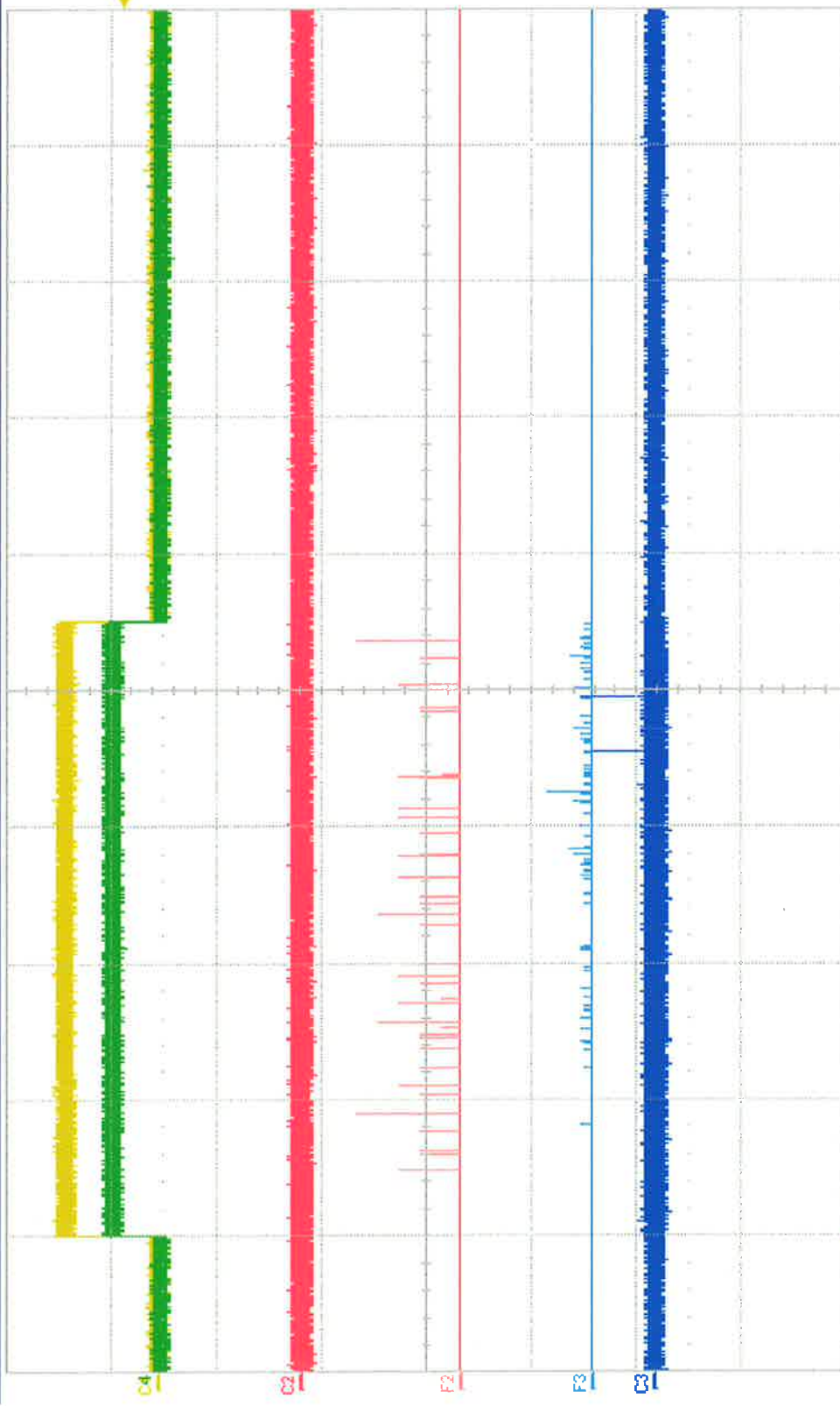
☐ NORMAL



Measure		P1:---	P2:---	P3:---	P4:---	P5:---	P6:---
value		478 mV	338 V				
mean		498.32 mV	343.83 V				
min		475 mV	331 V				
max		525 mV	359 V				
sdev		10.58 mV	5.46 V				
num		41	41				
status		OK	OK				

C1	DCIM
100 mV/div	100 V/div
296.0 mV offset	0.0 V offset
-58.5 mV	-65.5 V
-19.4 mV	-3.0 V
Δy	Δy
39.1 mV	62.5 V

Timebase	-1.50 ms	Trigger	Ext DC
250 kS	500 μs/div	Normal	150 mV
	50 MS/s	Edge	Positive
X1=	2.18204 ms	ΔX=	-2.79602 ms
X2=	-613.98 μs	1/ΔX=	-357.651 Hz



Tbase -4.00 ms
1.00 ms/div
500 kS

Trigger Normal
Edge
Positive

C100

C1 D1 5.00 V 12.70 V

C2 D1 5.00 V 5.95 V

C3 D1 5.00 V -11.0 V

C4 D1 10.0 V 25.30 V

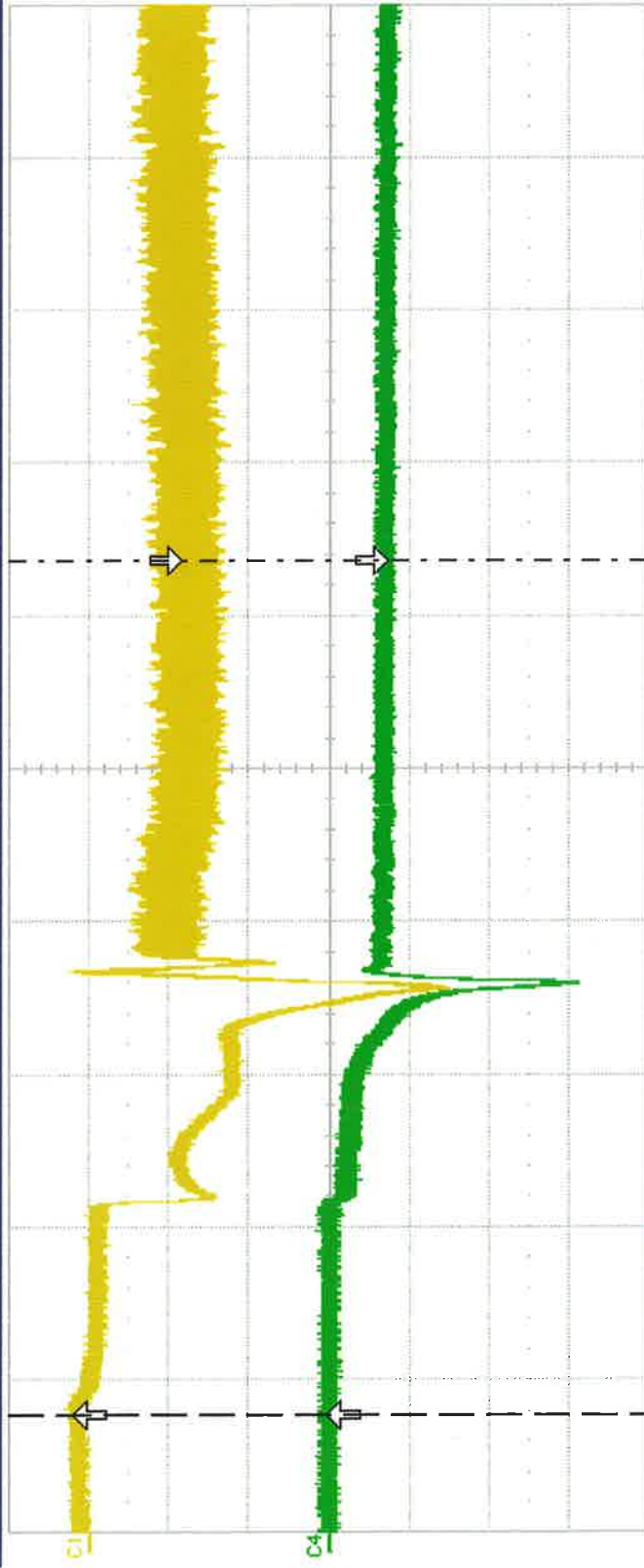
F1 peris... 50.0 # 1.0 ms

F2 peris... 5.00 # 1.0 ms 89 #

F3 peris... 50.0 # 1.0 ms 430 #

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Measure

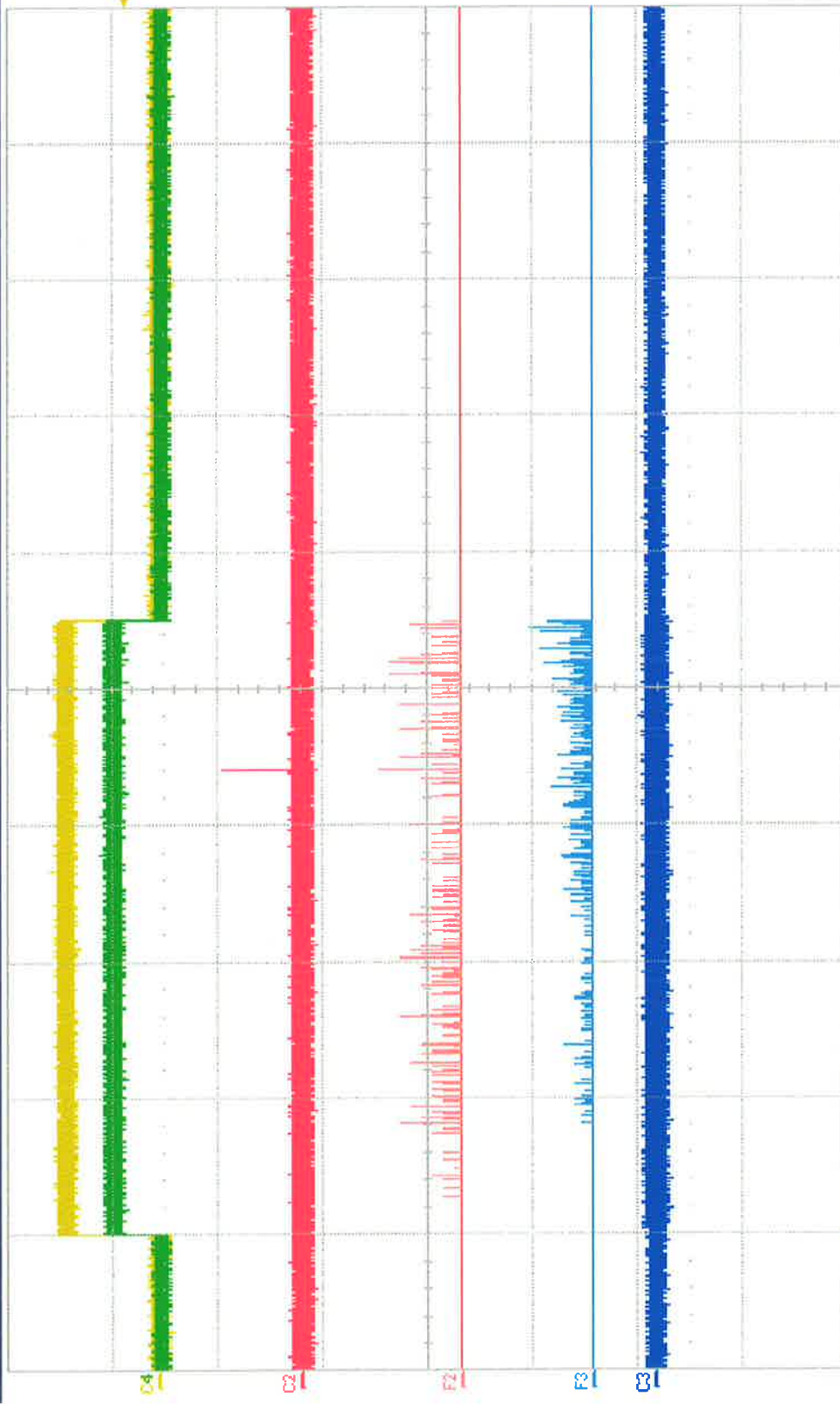
value	P1:amp1(C1)	P2:amp1(C4)	P3:---	P4:---	P5:---	P6:---
mean	478 mV	328 V				
min	494.94 mV	342.32 V				
max	462 mV	322 V				
sdev	541 mV	363 V				
num	13.48 mV	6.95 V				
status	372	372				
	μ	μ				

C1	DCIM	C4	DCIM
100 mV/div	100 V/div	100 V/div	100 V/div
296.0 mV ofst	0.0 V ofst	0.0 V ofst	0.0 V ofst
↓ -110.2 mV	↓ -70.3 V	↓ -70.3 V	↓ -70.3 V
↑ 19.6 mV	↑ 0.0 V	↑ 0.0 V	↑ 0.0 V
Δy 129.8 mV	Δy 70.3 V	Δy 70.3 V	Δy 70.3 V

Timebase	-1.50 ms	Trigger	Edge	EM DC
250 kS	500 μs/div	Normal	Edge	Positive
	50 MS/s			

X1= 2.18204 ms ΔX= -2.79602 ms
X2= -613.98 μs 1/ΔX= -357.651 Hz

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Tbase -4.00 ms
1.00 ms/div
500 kS
Trigger 0100
Normal
Edge
Positive

C1 01 5.00 V 12.70 V
C2 01 5.00 V 5.95 V
C3 01 5.00 V -11.0 V
C4 01 10.0 V 25.30 V
F2 peris... 10.0 # 1.0 ms 456 #
F3 peris... 50.0 # 1.0 ms 1.87 k#

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