

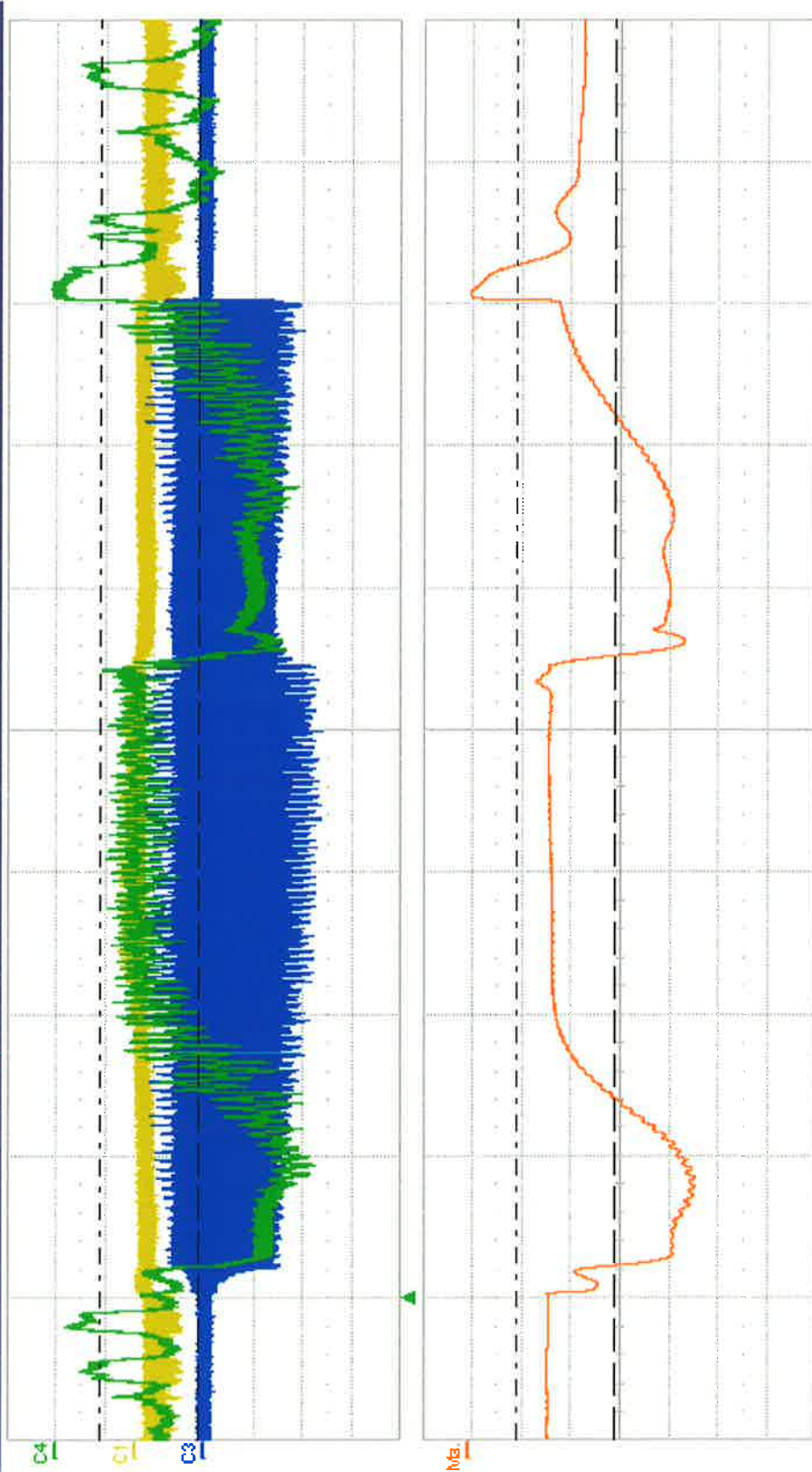
Thase -4.00 ms
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

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... 1.00 k# 1.0 ms 307 k#
 F3 peris... 500 # 1.0 ms 134 k#

TELEDYNE LECROY

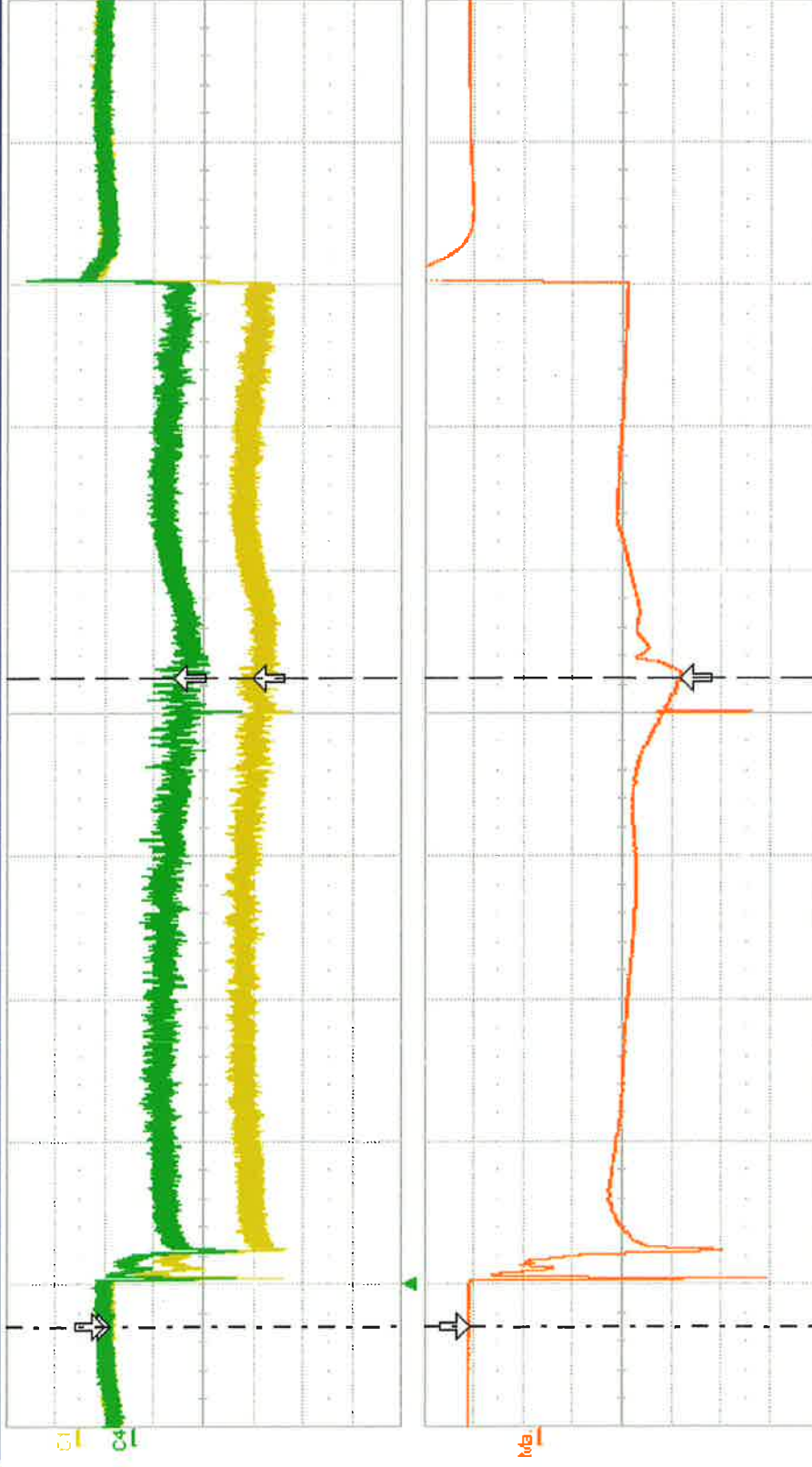
10/27/2020 11:38:20 AM





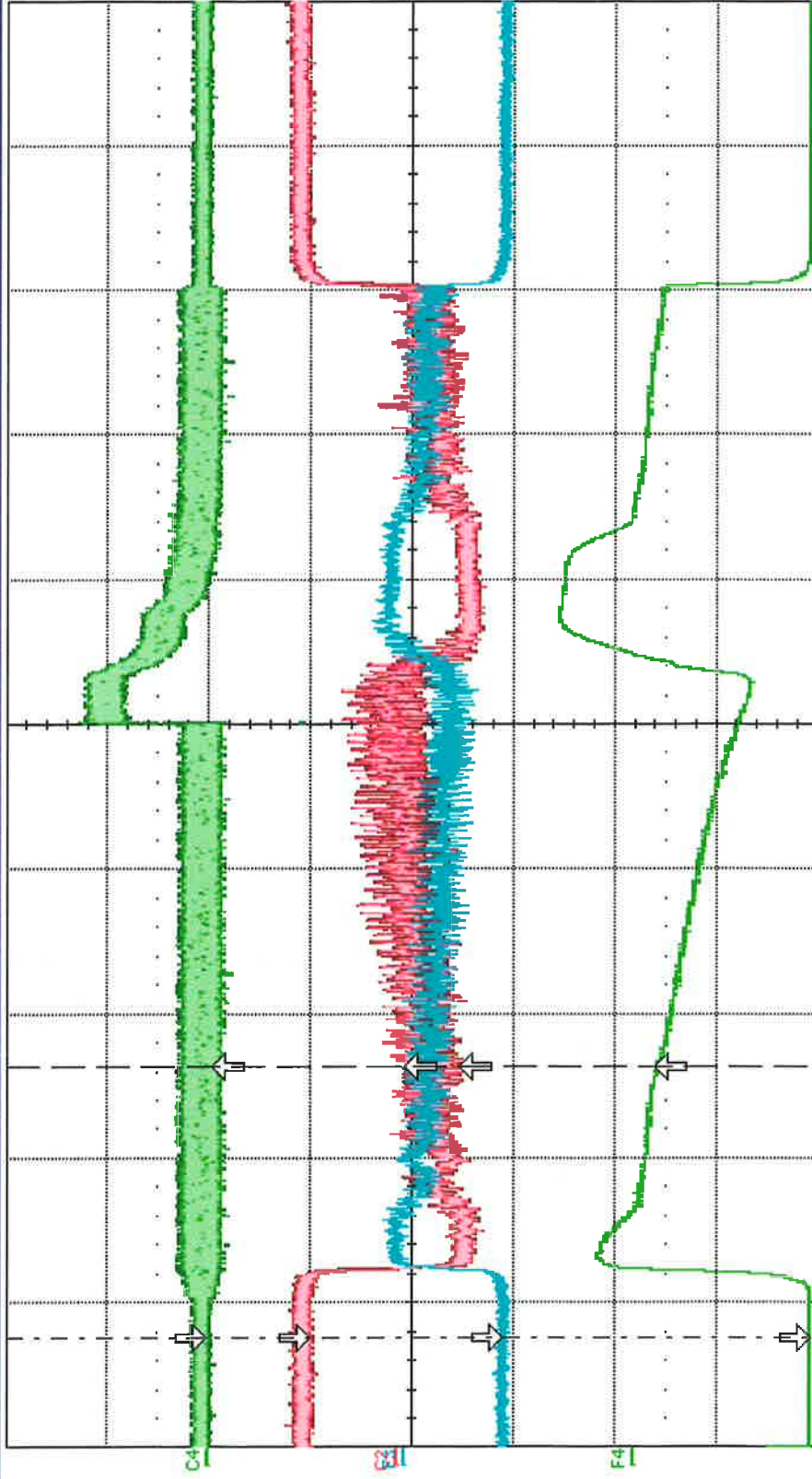
C1	DCIM	1.00 V/div	1.380 V offset	720 mV	-1.27 V	-1.99 V	Δy
C3	DC	5.00 A/div	0.00 A offset	10.50 A	550 mA	-9.95 A	Δy
C4	DCIM	100 V/div	299.0 V offset	-89 V	-288 V	-199 V	Δy
Math	<C4>	100 V/div	1.00 ms/div	1.708 V	-89 V	-288 V	Δy

Timebase	-4.00 ms	Trigger	Edge
1.00 MS	100 MS/s	Normal	Negative
1.00 ms/div	400 mV		

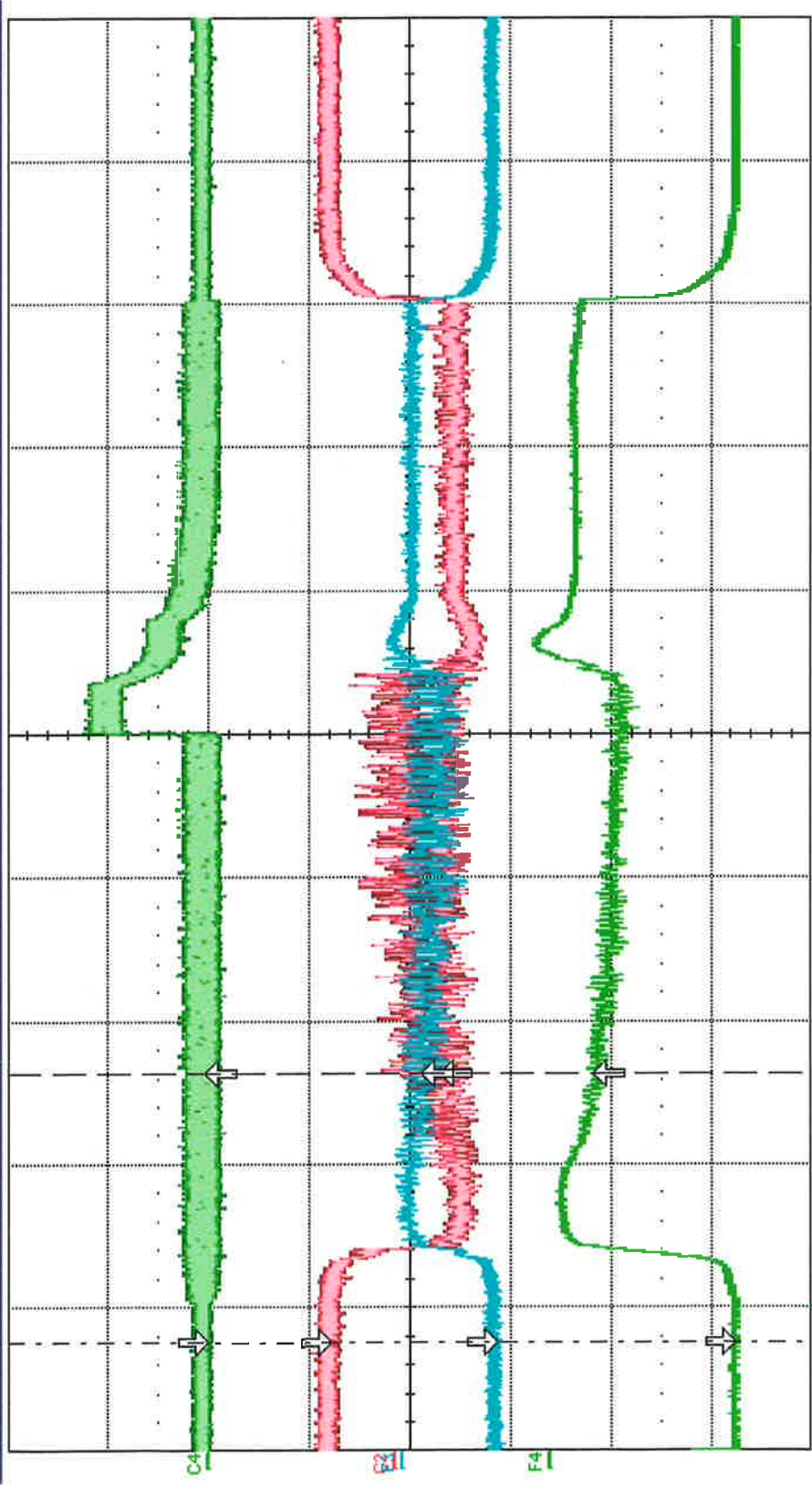


C1	DCIM	C4	DCIM	Math	<C4>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	2.05 mV/div	2.05 mV/div
12.50 mV ofst	12.50 mV ofst	7.00 mV ofst	7.00 mV ofst	1.00 ms/div	1.00 ms/div
-2.93 mV	-2.93 mV	3.22 mV	3.22 mV	2.214 fA	2.214 fA
-17.53 mV	-17.53 mV	-4.25 mV	-4.25 mV	3.0110 mV	3.0110 mV
-14.60 mV	-14.60 mV	-7.47 mV	-7.47 mV	-5.8161 mV	-5.8161 mV
ΔV	ΔV	ΔV	ΔV	ΔV	ΔV

Timebase	-4.00 ms	Trigger	Ext10	DC
1.00 ms/div	1.00 ms/div	Normal	700 mV	Negative
2.00 MS	200 MS/s	Edge		
X1=	-297.005 μ s	ΔX =	4.541120 ms	
X2=	4.244115 ms	1/ ΔX =	220.2100 Hz	



C2	DCIM	500 mV/div 75 mV offset	485 mV -108 mV -593 mV	Δv
C4	DCIM	100 V/div 201.0 V offset	3.5 V 9.6 V 6.1 V	Δv
F3	script(C3,C2)	2.00/div 1.00 ms/div	-1.904 -53e-3 1.851	Δv
F4	<F3>	1.00/div 1.00 ms/div	1.000 k# -1.73810 -232.78e-3	Δv
Trigger Ext10 D0 Normal 30 mV Edge Negative X1= -243.6 μs ΔX= 1.8706 ms X2= 1.6270 ms 1/ΔX= 534.59 Hz				



C2

DCIM

500 mV/div

75 mV offset

↓

↑

Δy

326 mV

-235 mV

-561 mV

C4

DCIM

100 V/div

201.0 V offset

↓

↑

Δy

600 mV

500 mV

-100 mV

F3

script(C3,C2)

2.00/div

1.00 ms/div

↓

↑

Δy

-1.851

-410e-3

1.440

F4

<F3>

1.00/div

1.00 ms/div

↓

↑

Δy

-1.83121

-436.82e-3

1.39439

26 #

Tbase

-4.00 ms

Trigger

Ext

10

DC

WStream

1.00 ms

50.0 kS

5.0 MS/s

Normal

Edge

Negative

X1=

-243.6 μs

ΔX=

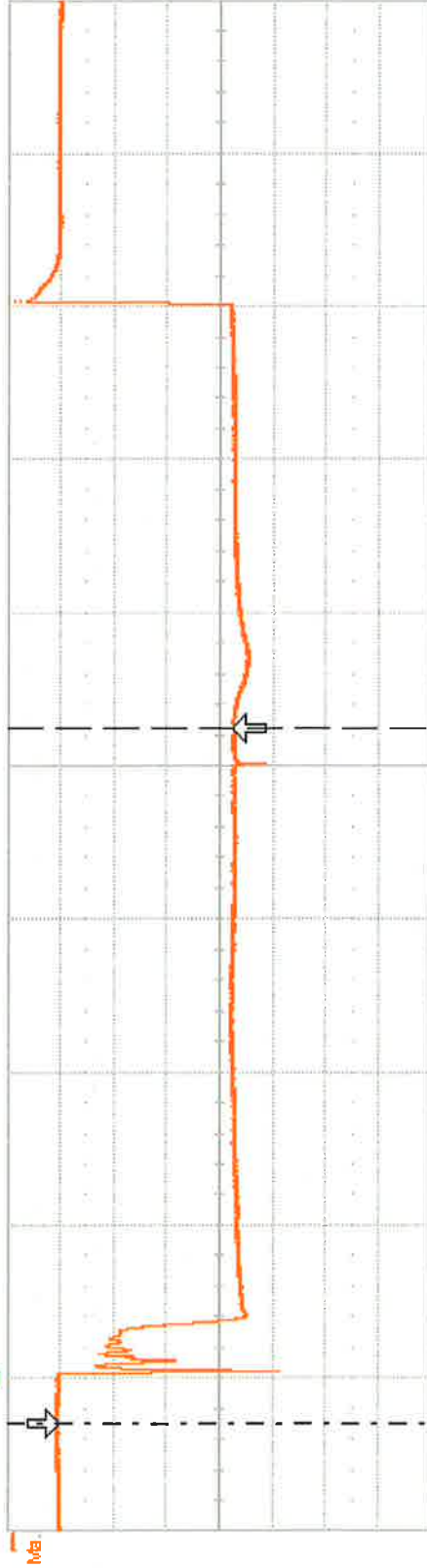
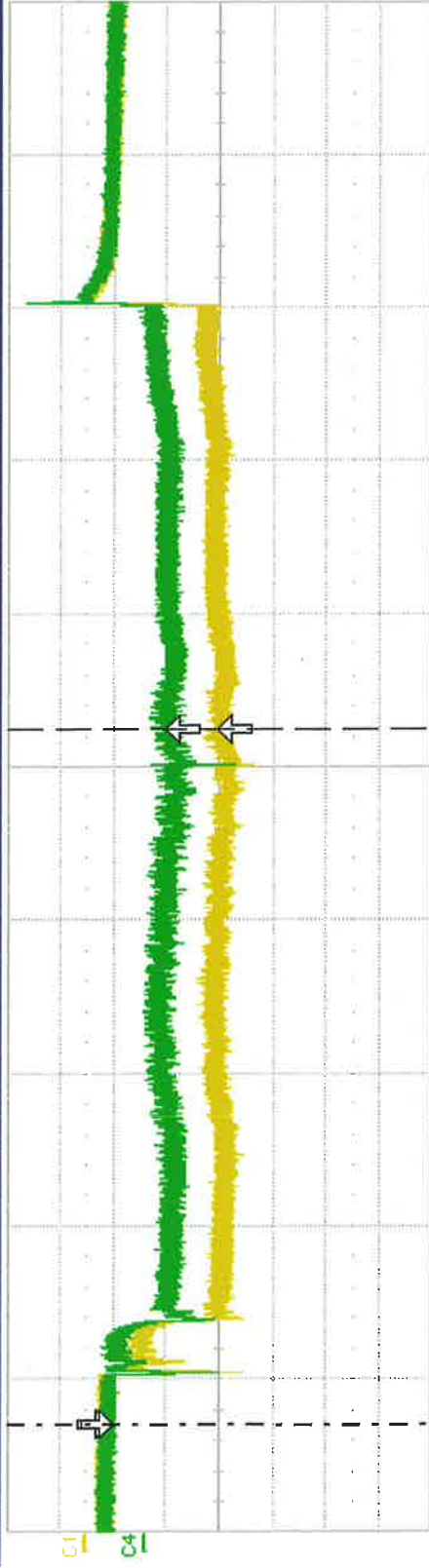
1.8706 ms

X2=

1.6270 ms

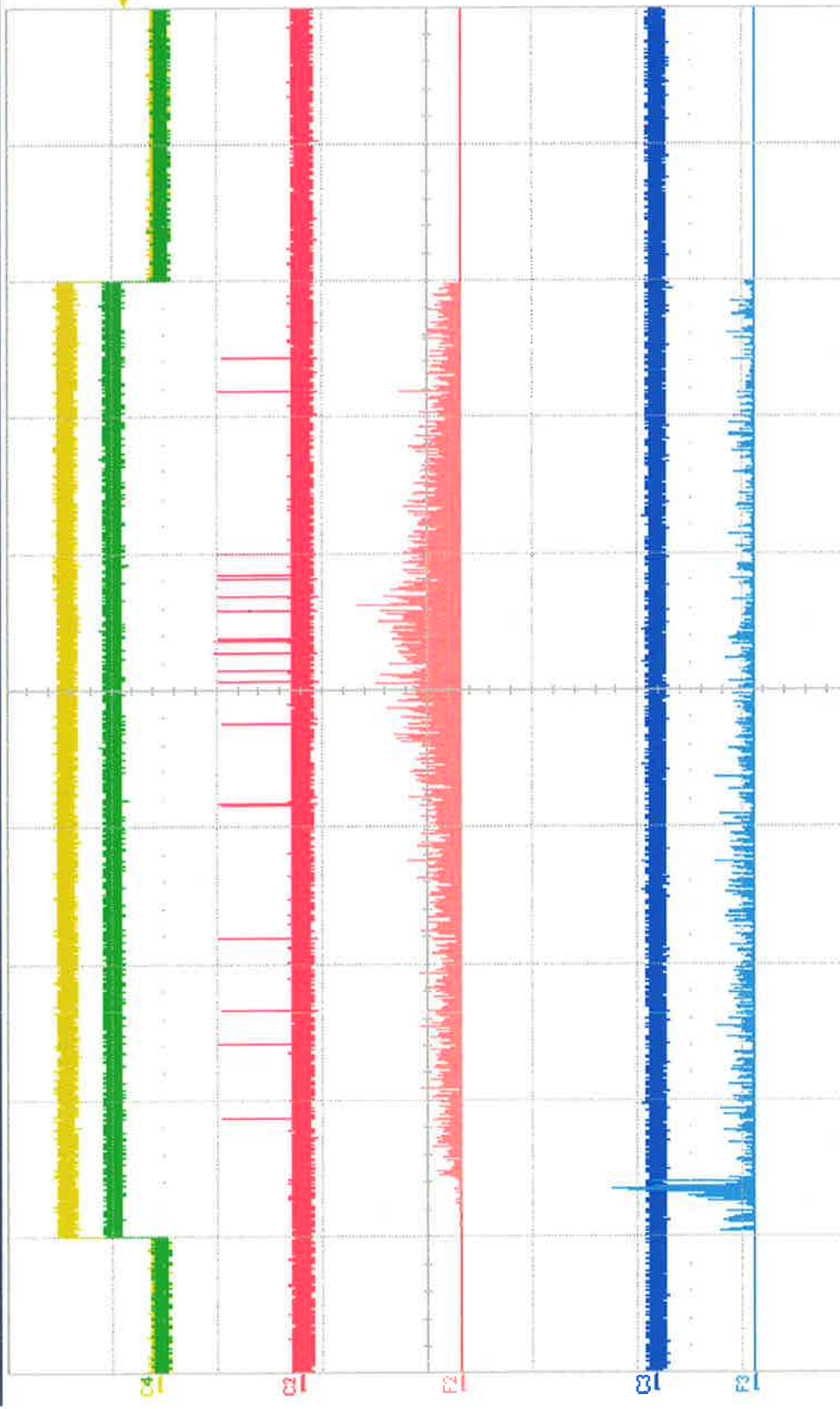
1/ΔX=

534.59 Hz



C1	C2	Math	<C1>
5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
12.50 mV/div	7.00 mV/div	1.00 mV/div	1.00 mV/div
2.03 mV	3.20 mV	2.5016 mV	2.5016 mV
-12.45 mV	-2.14 mV	-12.4335 mV	-12.4335 mV
-10.42 mV	-5.34 mV	-9.9319 mV	-9.9319 mV

Timebase	-4.00 ms	Trigger	Edge
250 kS	1.00 ms/div	Normal	700 mV
X1=	-297.00 μ s	Δ X=	4.54112 ms
X2=	4.24412 ms	1/ Δ X=	220.210 Hz

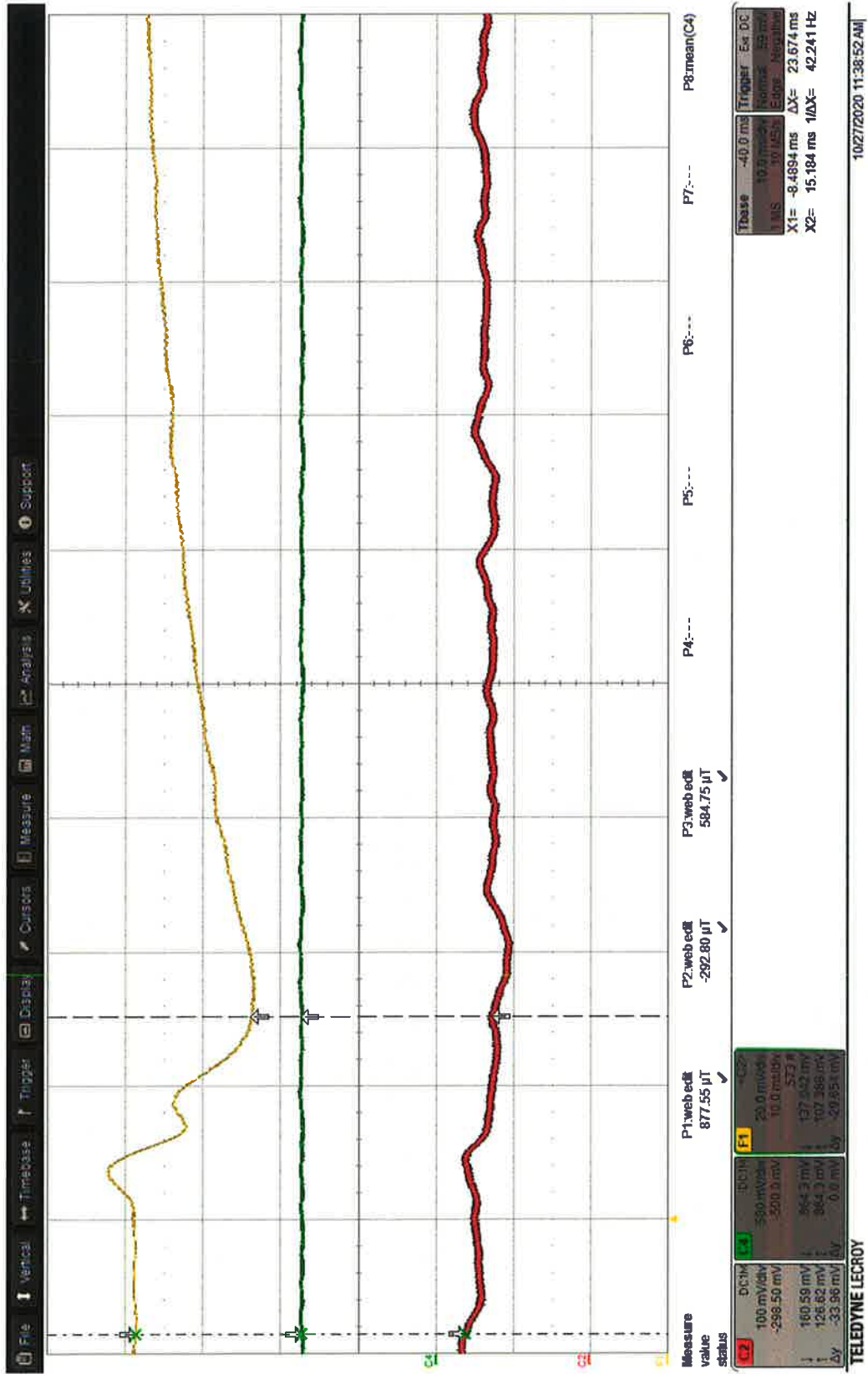


Tbase -4.00 ms
1.00 ms/div
500 kS
Trigger Normal
Edge
Positive

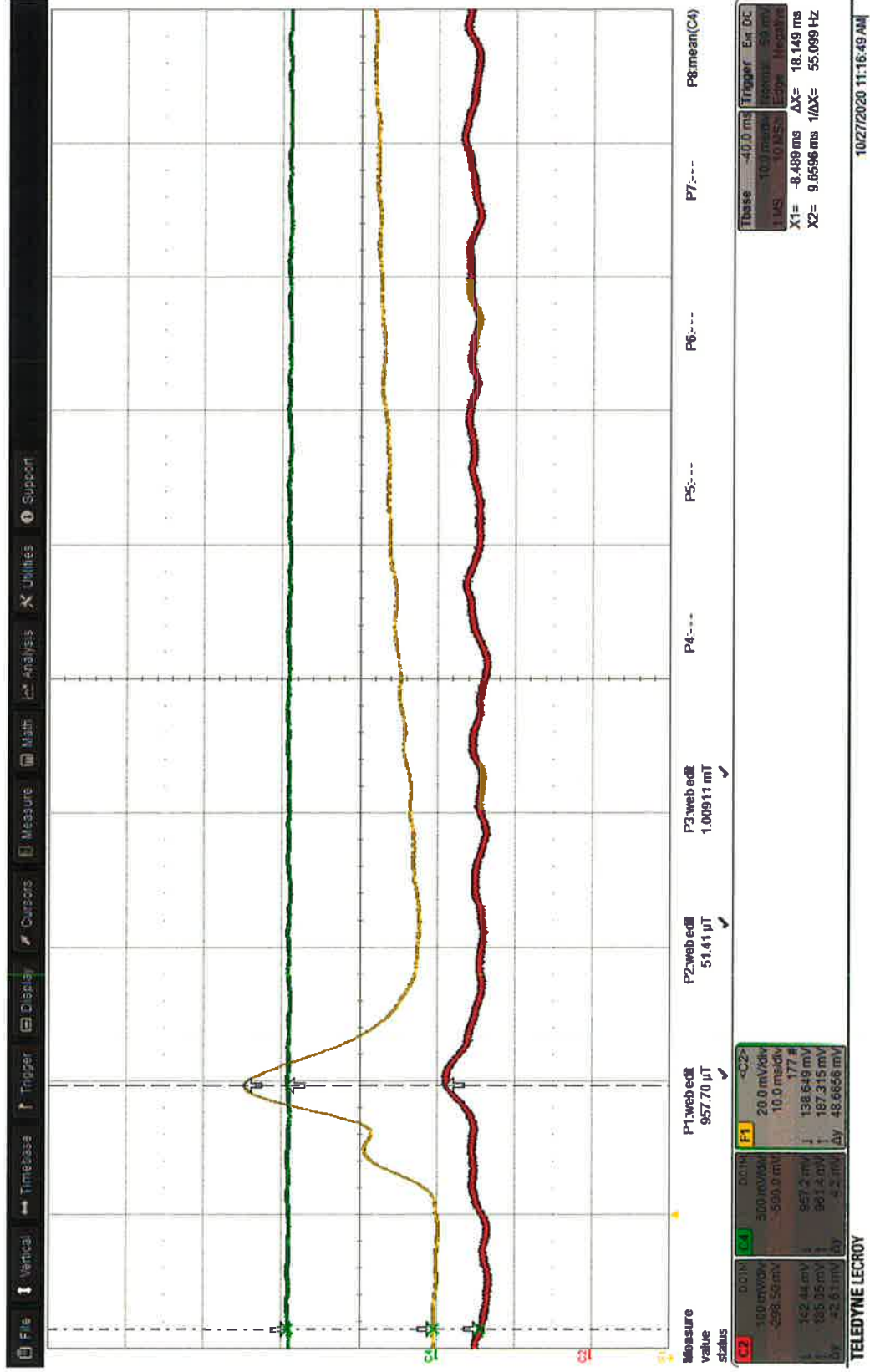
C1 5.00 V 12.70 V
C2 5.00 V 12.70 V
C3 5.00 V -11.0 V
C4 10.0 V 25.30 V
F3 peris... 100 # 1.0 ms 7.95 k#

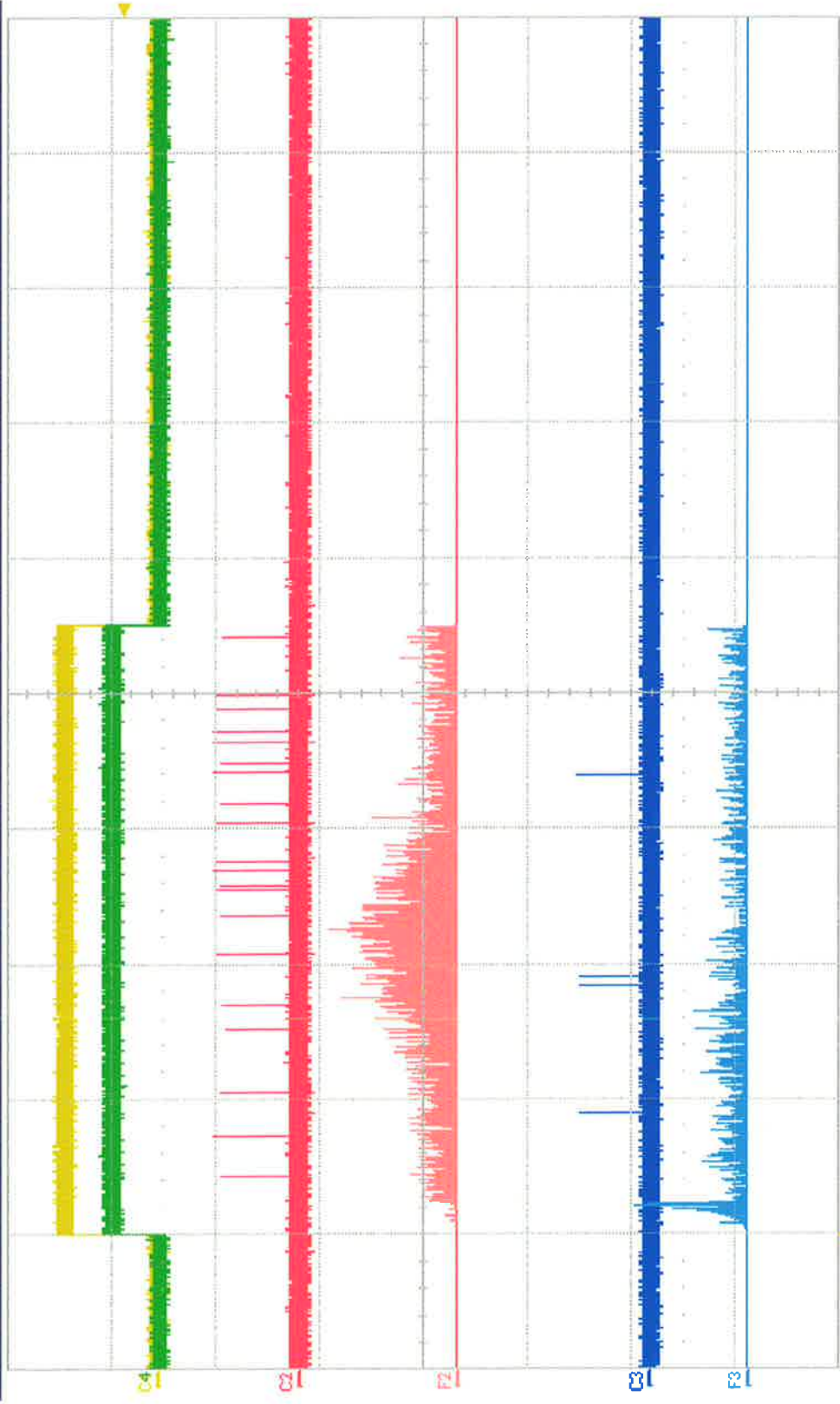
TELEDYNE LECROY

10/27/2020 12:33:04 PM









Tbase -8.00 ms
2.00 mV/div
500 kS
Trigger C1 DC
Normal
Edge
Positive

F3 peris...
50.0 #
2.0 ms
3.60 k#

F2 peris...
50.0 #
2.0 ms
8.92 k#

C4
10.0 V
25.30 V

C3
5.00 V
-11.0 V

C2
5.00 V
5.95 V

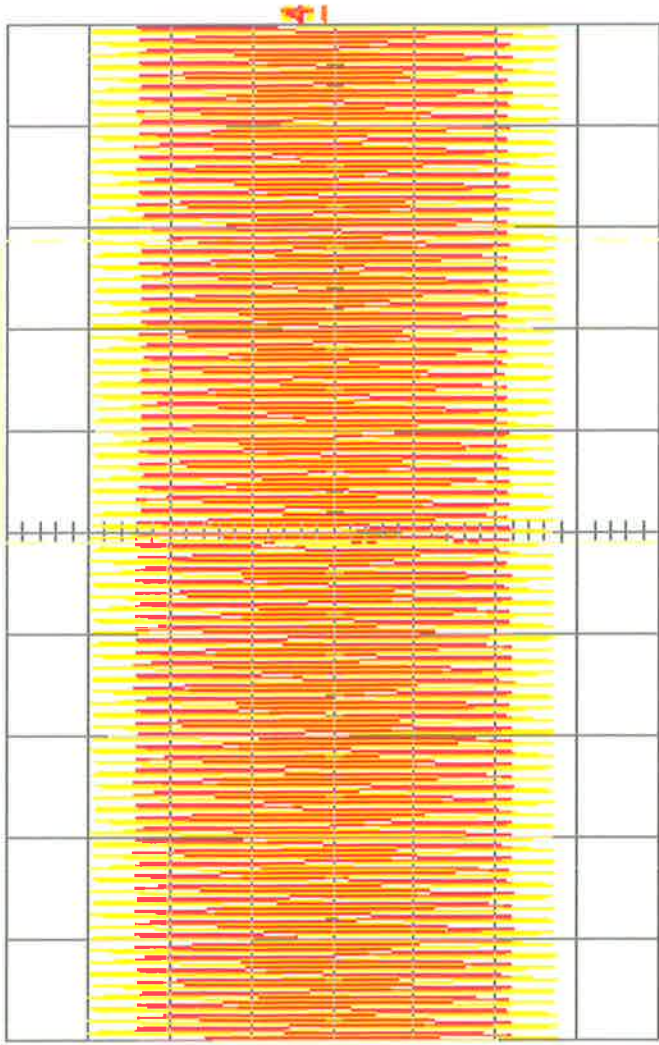
C1
5.00 V
12.70 V

TELEDYNE LECROY

10/27/2020 12:43:05 PM

27-Oct-20
11:41:42

3 2 μ s
0.50 V



← 2.2200 ms

4 2 μ s
0.50 V

3935 sweeps:		average	low	high	sigma
phase(4,3)		-89.9°	-96.5	-82.6	1.6
rms(1)		11.8mV	11.3	12.2	0.1
rms(2)		142mV	137	151	2
rms(4)		756.1mV	606.4	841.0	45.8
rms(3)		0.9454 V	0.7925	1.0544	0.0689

2 μ s

- 1 .5 V DC
- 2 .5 V DC
- 3 .5 V DC
- 4 .5 V DC

1 GS/s

Ext10 DC 0.15 V 50 Ω

☐ NORMAL

27-Oct-20
11:16:05

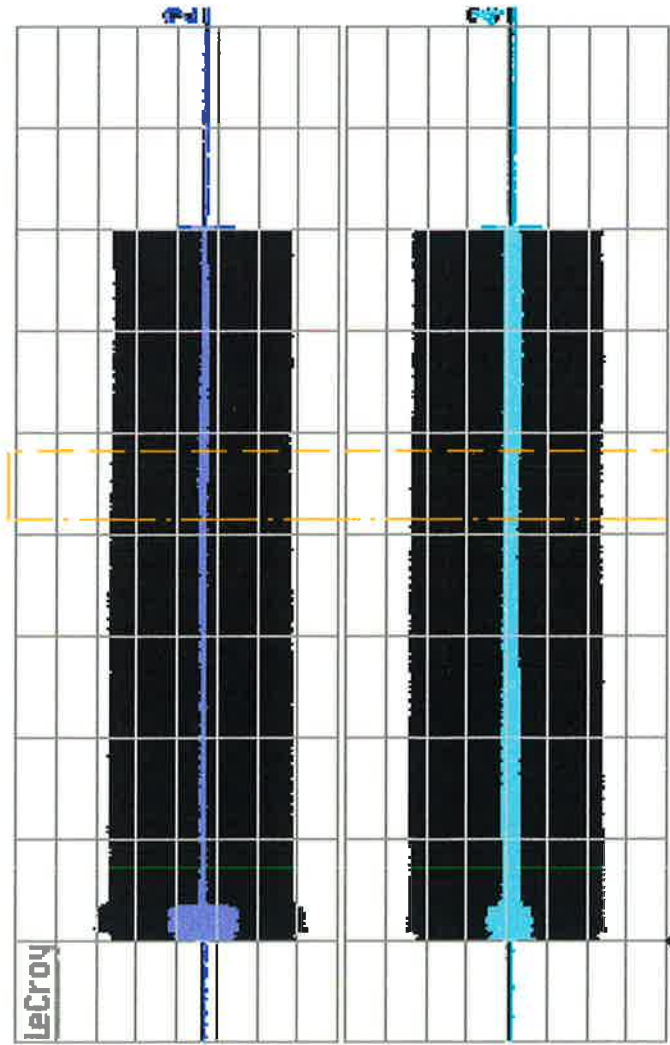
1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

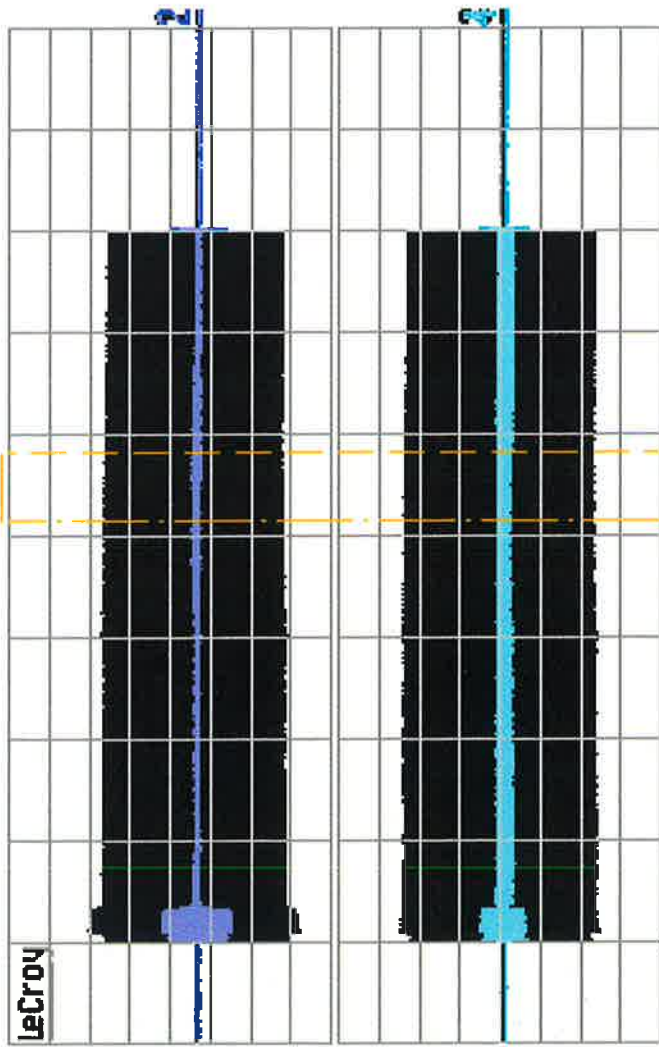
1 ms
1 .2 V AC
2 .2 V AC
3 .2 V AC
4 .2 V AC



93 sweeps:				
rms(1)	average	low	high	sigma
rms(2)	315.0 mV	311.6	318.0	1.6
rms(3)	15.6 mV	12.2	18.4	1.4
rms(4)	329.2 mV	326.6	331.7	1.4
phase(1,3)	25.6 mV	23.3	28.1	1.1
	76 °	27	133	36

Ext10 DC 0.15 V 50Ω
10 MS/s
NORMAL

27-Oct-20
11:17:38



1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

185 sweeps:

	average	low	high	sigma
rms(1)	315.4 mV	311.6	319.0	1.6
rms(2)	16.0 mV	12.2	19.3	1.6
rms(3)	329.2 mV	326.0	331.9	1.4
rms(4)	25.2 mV	21.3	28.1	1.3
phase(1,3)	76 °	27	133	36

1 ms

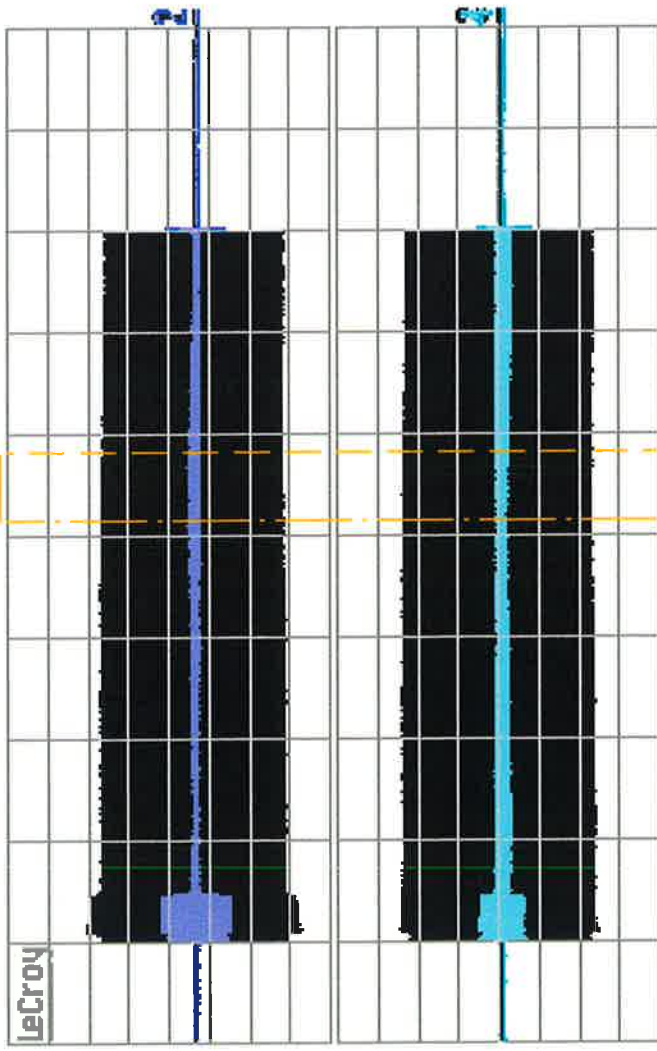
1 .2 V AC
2 .2 V AC
3 .2 V AC
4 .2 V AC

10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL

27-Oct-20
11:31:38



1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

1 ms

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

1028 sweeps:

rms(1)	average	low	high	sigma
rms(2)	318.2 mV	311.6	323.8	2.3
rms(3)	18.1 mV	12.2	22.3	1.7
rms(4)	327.5 mV	322.8	332.0	1.8
phase(1,3)	22.2 mV	17.5	28.1	2.2
	76 °	27	133	36

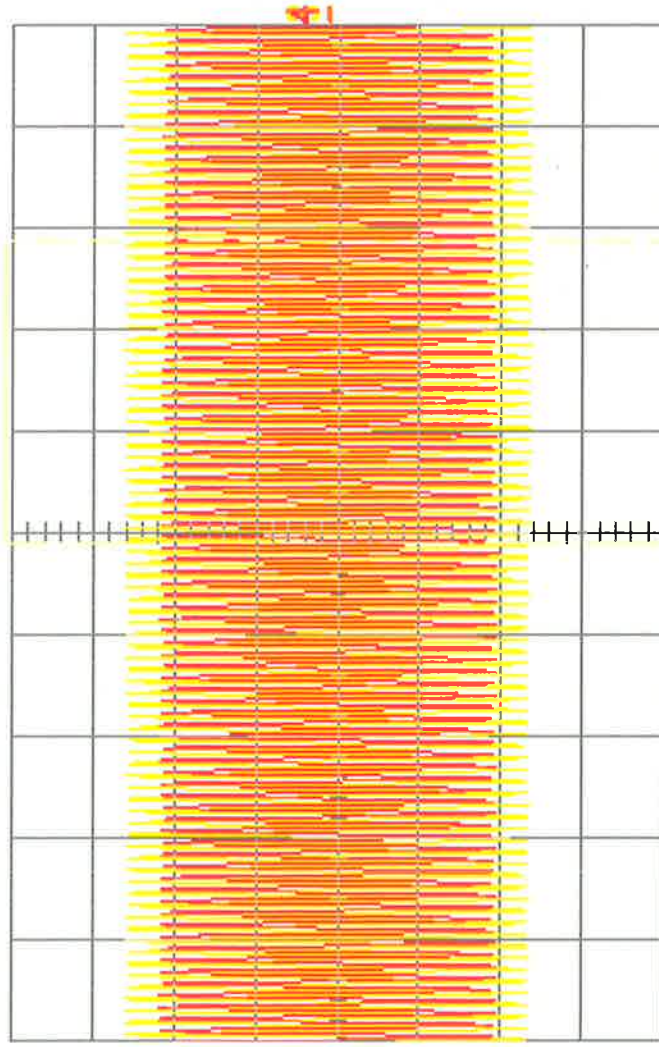
10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL

27-Oct-20
12:34:13

3 2 μ s
0.50 V



← 2.2200 ms

4 2 μ s
0.50 V

998 sweeps:		average	low	high	sigma
phase(4,3)		-91.9°	-96.4	-87.6	1.2
rms(1)		11.9mV	11.4	12.2	0.1
rms(2)		130mV	126	134	1
rms(4)		712.9mV	687.5	739.6	8.2
rms(3)		859.5mV	826.5	888.3	9.0

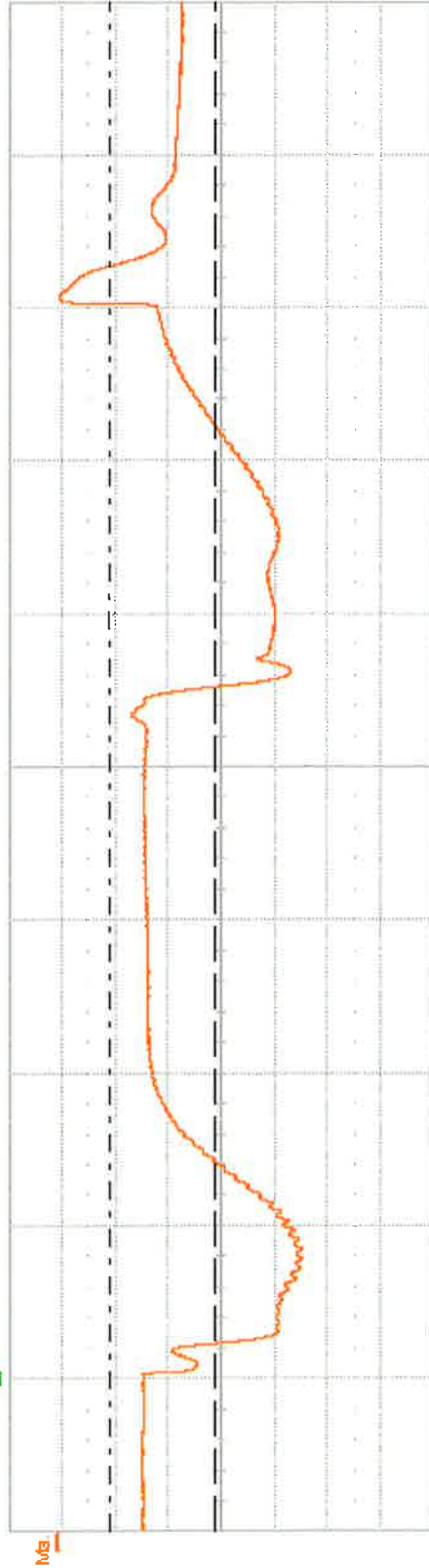
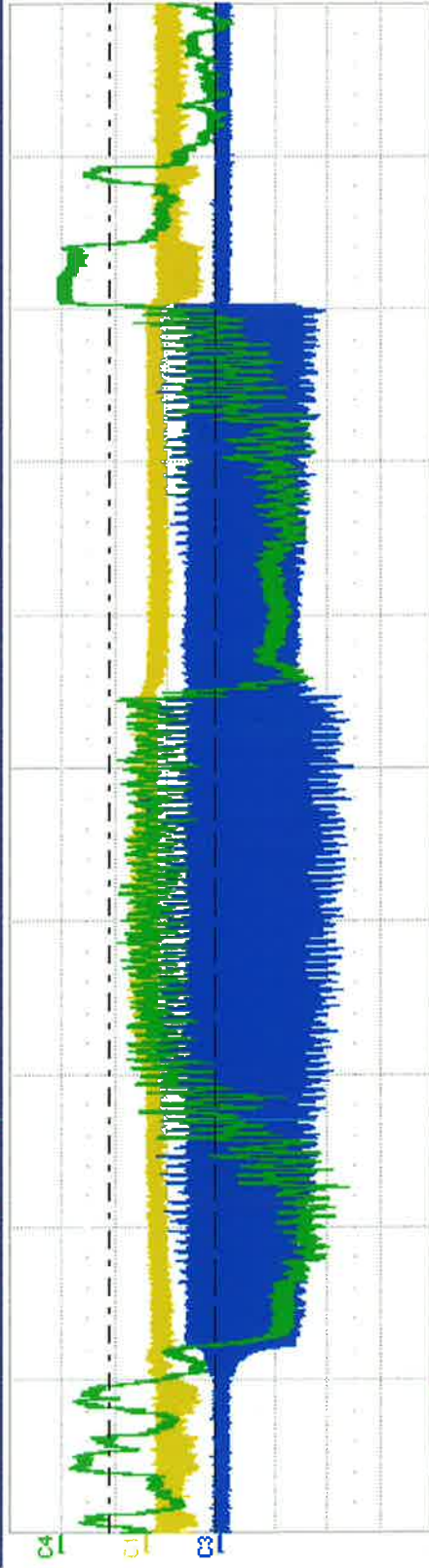
2 μ s

1 .5 V DC
2 .5 V DC
3 .5 V DC
4 .5 V DC

1 GS/s

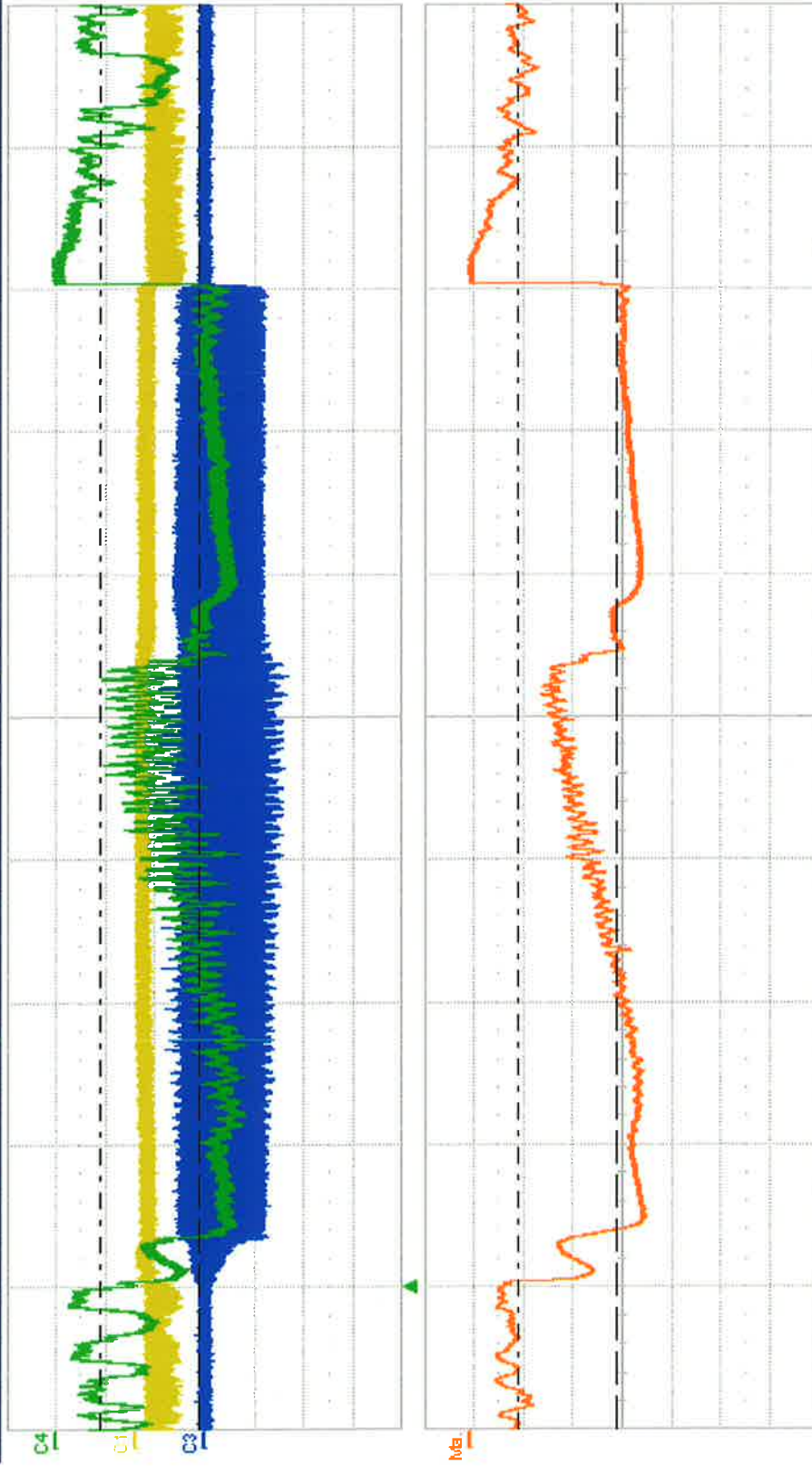
Ext10 DC 0.15 V 50 Ω

☐ NORMAL



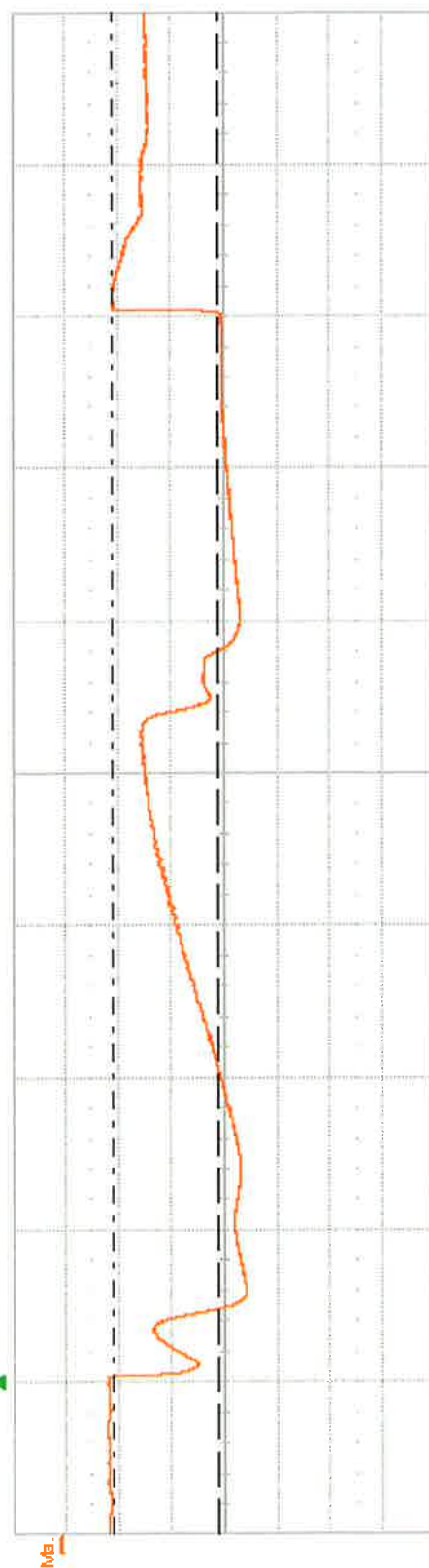
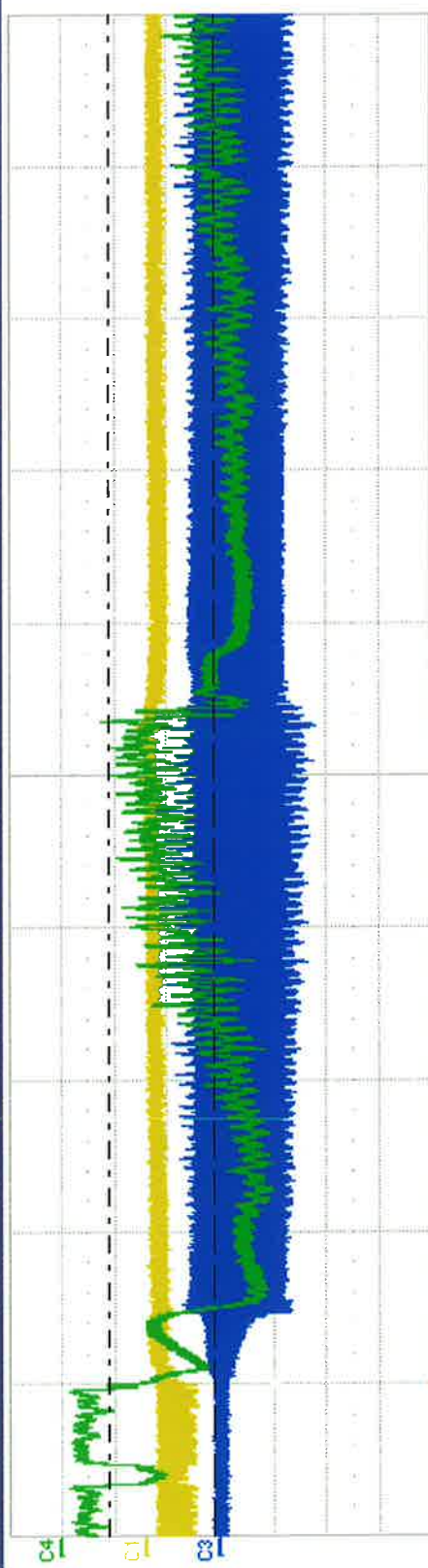
Timebase -4.00 ms
1.00 ms/div
1.00 MS
Trigger Normal
Edge
100 MS/s
Ext10 DC
400 mV
Negative

Channel	DCIM	DCIM	DCIM	Math	<C4>
C1	1.00 V/div	100 V/div	100 V/div	100 V/div	100 V/div
C2	1.360 V offset	299.0 V offset	299.0 V offset	1.00 ms/div	1.00 ms/div
C3	5.00 A/div	10.50 A	10.50 A	1.757 kHz	1.757 kHz
C4	0.00 A offset	550 mA	550 mA	-89 V	-89 V
		-1.99 V	-1.99 V	-298 V	-298 V
		-9.95 A	-9.95 A	-199 V	-199 V



Timebase	4.00 ms	Trigger	Edge
250 kS	1.00 ms/div	Normal	400 mV
	25 MS/s	Edge	Negative

C1	DCIM	1.00 V/div	1.380 V offset	720 mV	-1.27 V	-1.99 V	Δy
C3	DCIM	5.00 A/div	0.00 A offset	10.50 A	550 mA	-9.95 A	Δy
C4	DCIM	100 V/div	299.0 V offset	-89 V	-288 V	-199 V	Δy
Math	<C4>	100 V/div	1.00 ms/div	8 #	-39 V	-288 V	-199 V

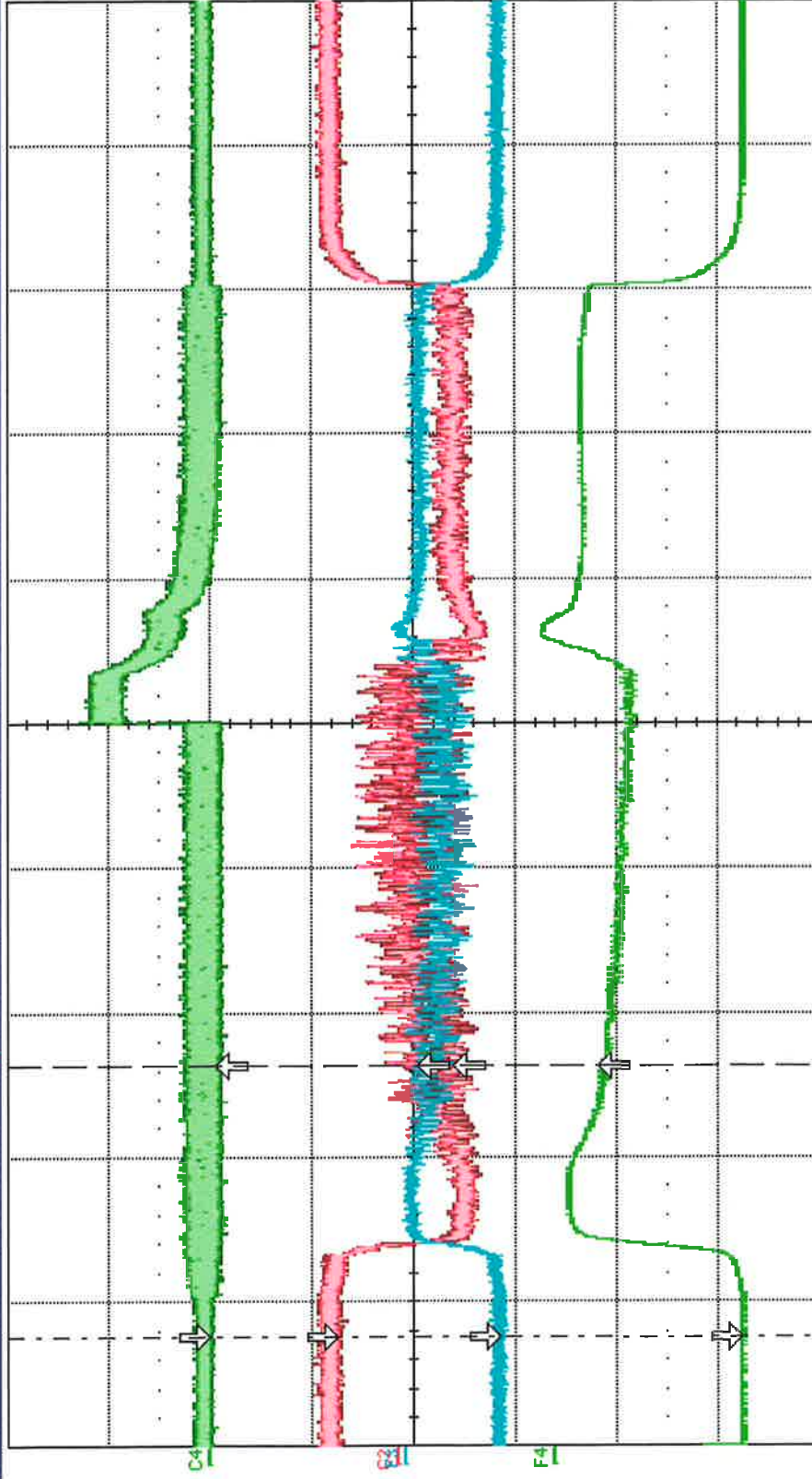


Timebase -4.00 ms
1.00 ms/div
250 kS

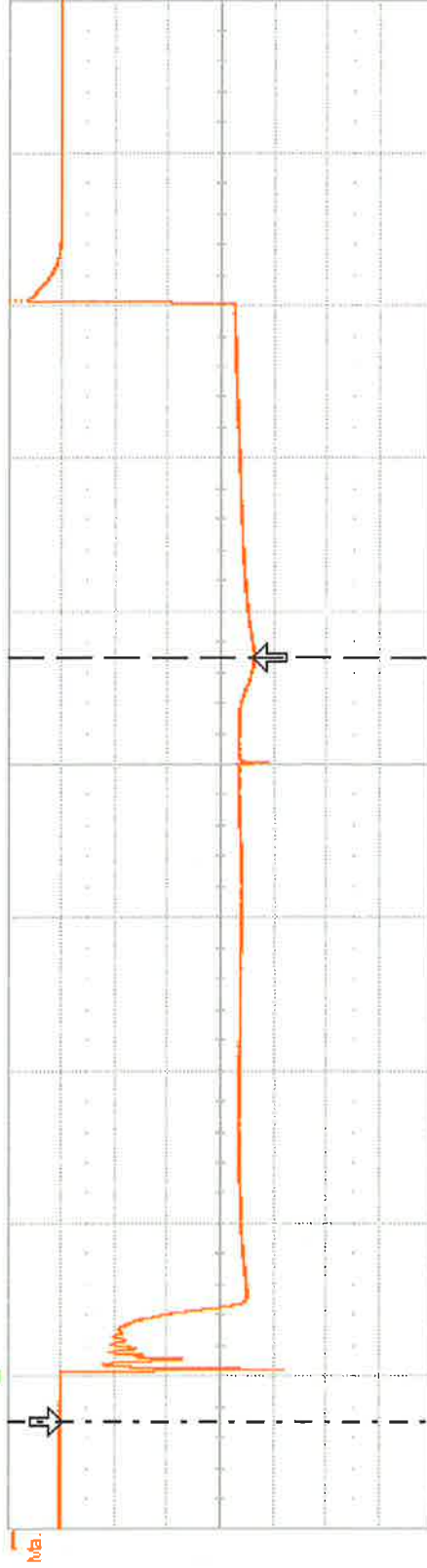
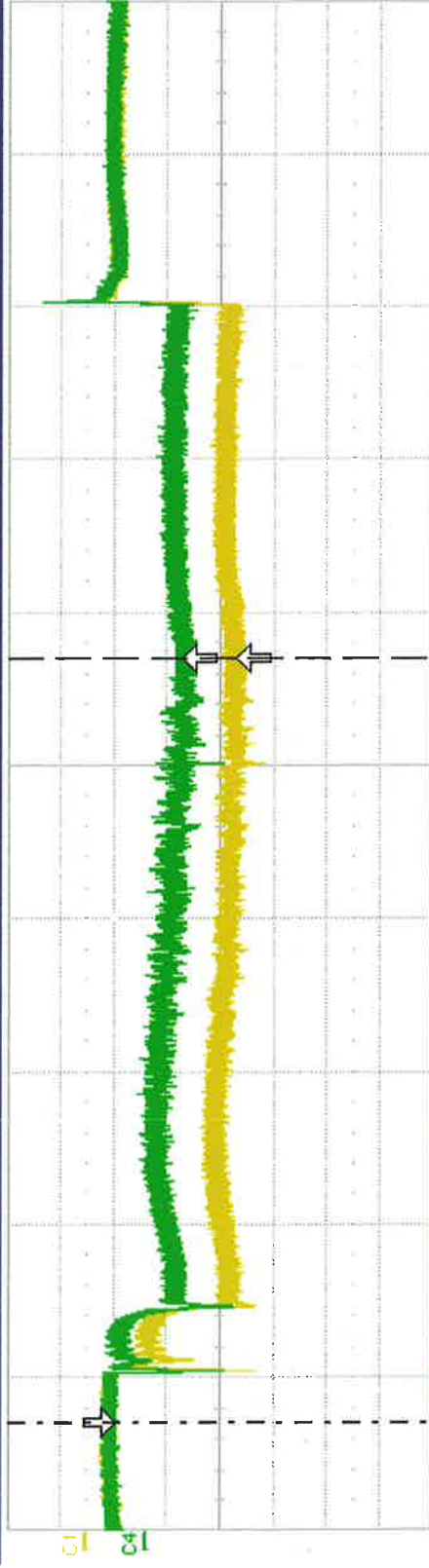
Trigger Normal
Edge
25 MS/s

Ext:10 DC
400 mV
Negative

Channel	Scale	Offset	Math	Scale	Offset	Math
C1	1.00 V/div	1.360 V offset	DCIM	100 V/div	299.0 V offset	<C4>
C3	5.00 A/div	0.00 A offset	D3	1.00 mV/div	1.261 mV	
C4	100 V/div	299.0 V offset	DCIM	1.00 mV/div	1.261 mV	
	720 mV	-1.27 V		-89 V	-288 V	
	-1.99 V	-9.95 A		-199 V	-199 V	
Δy						

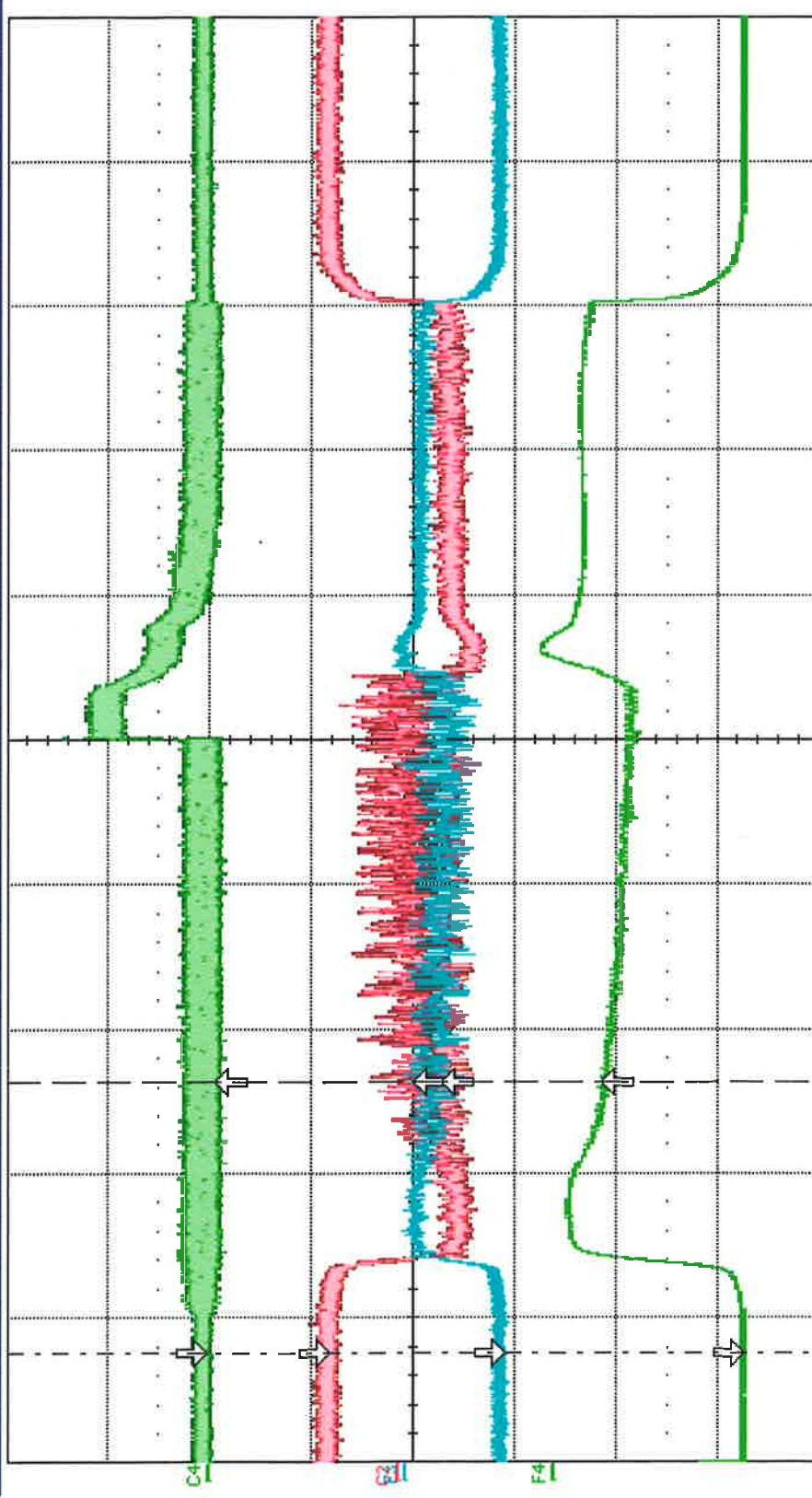


C2	DCIM	500 mV/div 75 mV offset	308 mV -283 mV -592 mV	Δy
C4	DCIM	100 V/div 201.0 V offset	600 mV -8.8 V -9.4 V	Δy
F3	script(C3,C2)	2.00/div 1.00 ms/div	-1.822 -273e-3 1.550	Δy
F4	<F3>	1.00/div 1.00 ms/div	-1.83351 -442.00e-3 1.39151	Δy
Trigger Ext/IO DC Normal 30 mV Edge Negative X1= -243.6 μ s Δx = 1.8706 ms X2= 1.6270 ms 1/ Δx = 534.59 Hz				



C1	DCIM	C4	DCIM	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	3.00 mV/div	3.00 mV/div
12.50 mV ofst	12.50 mV ofst	7.00 mV ofst	7.00 mV ofst	1.00 ms/div	1.00 ms/div
Δy	-2.64 mV	Δy	3.04 mV		934.4
	-13.01 mV		-3.58 mV		-2.5640 mV
	-10.36 mV		-6.62 mV		-13.5129 mV
					-10.9489 mV

Timebase	-4.00 ms	Trigger	Ext10	DC
250 kS	1.00 ms/div	Normal	700 mV	Negative
	25 MS/s	Edge		
X1=	-297.00 μs	ΔX=	4.99200 ms	
X2=	4.69500 ms	1/ΔX=	200.321 Hz	



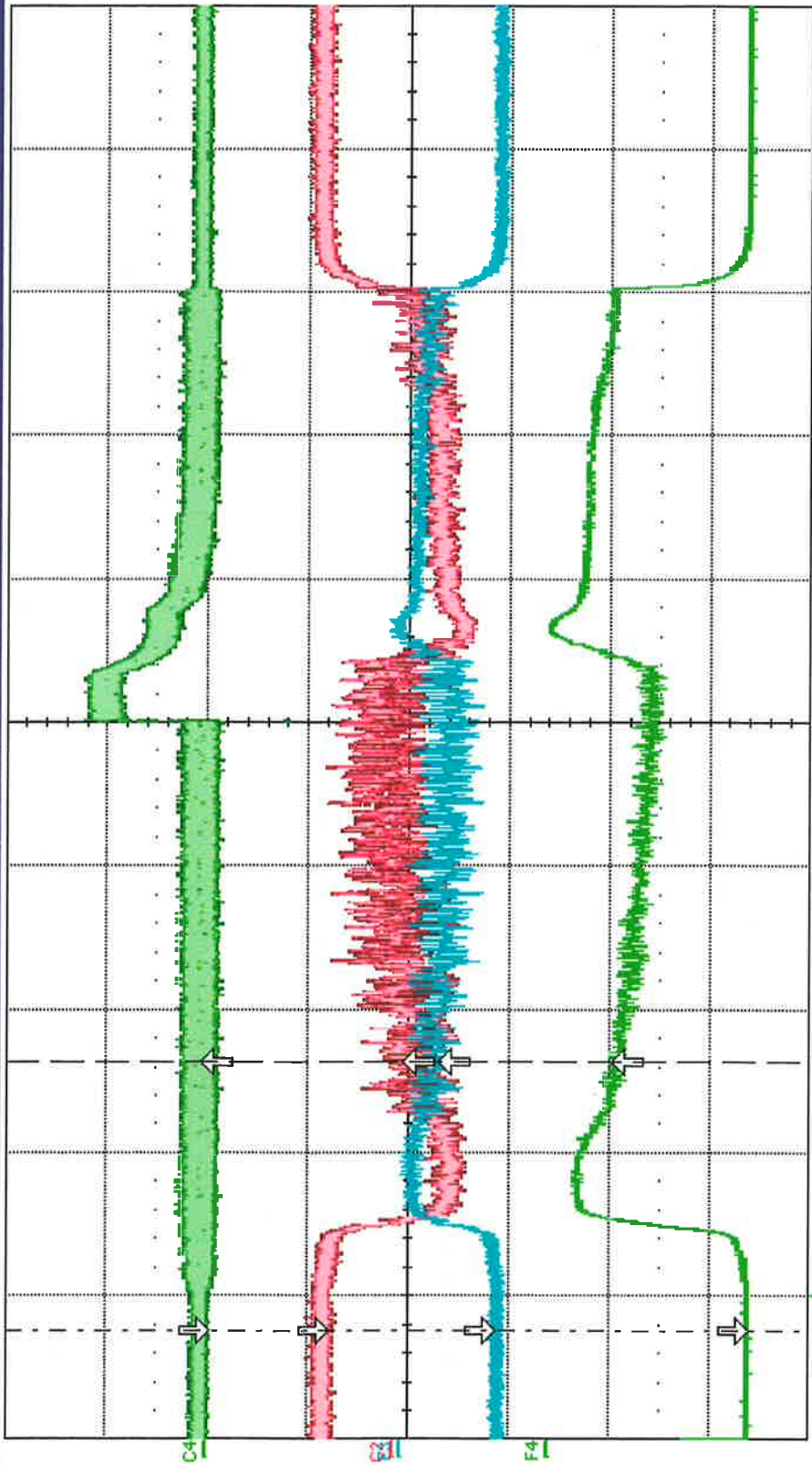
Tbase -4.00 ms
 WvStream 1.00 ms
 50.0 kS 5.0 MS/s
 X1= -243.6 μ s Δ X= 1.8706 ms
 X2= 1.6270 ms 1/ Δ X= 534.59 Hz

C2 DC1M 500 mV/div 75 mV offset
 341 mV
 -81 mV
 Δ y -422 mV

C4 DE1M 100 V/div 201.0 V offset
 3.8 V
 -8.0 V
 Δ y -11.8 V

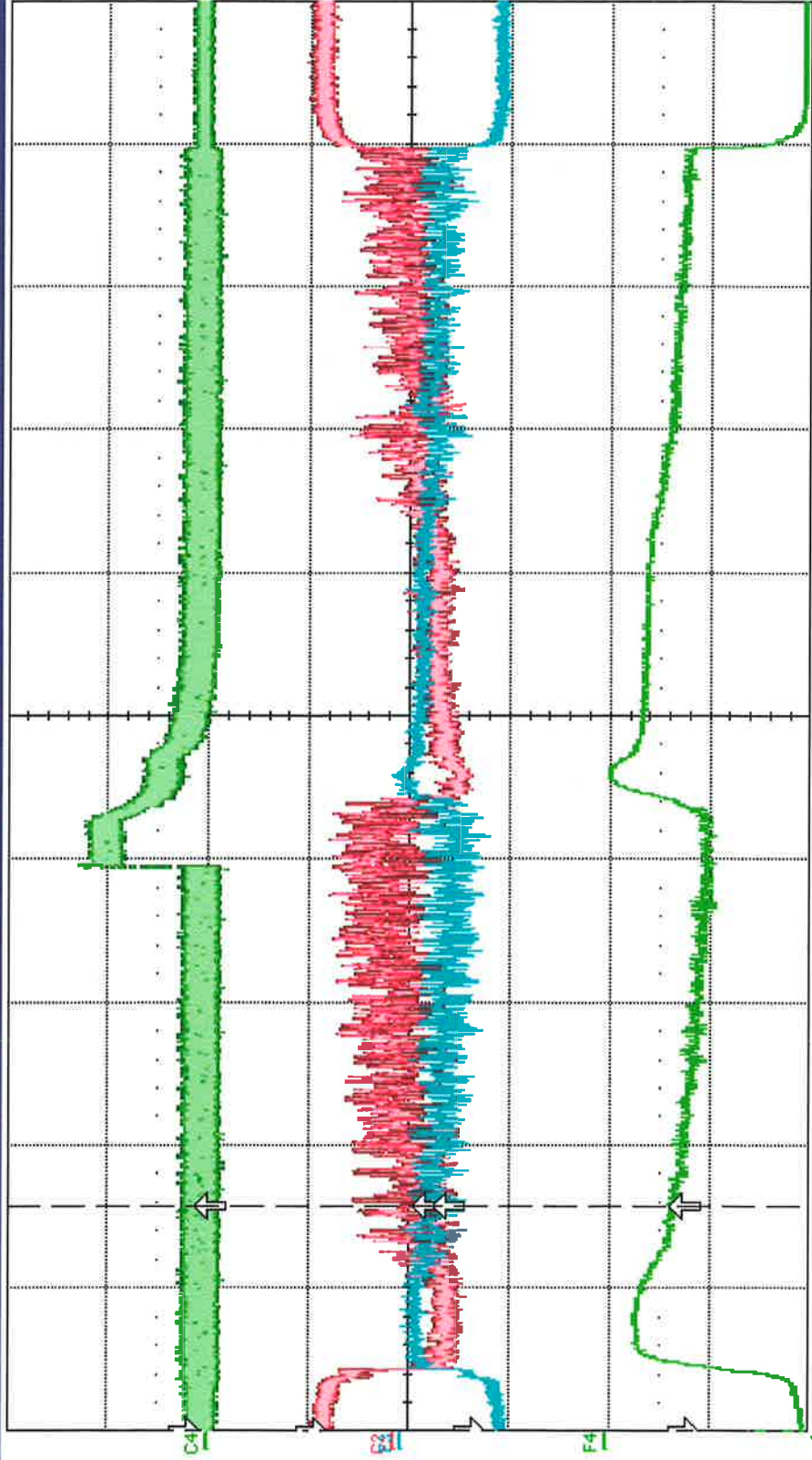
F3 script(C3,C2) 2.00/div 1.00 ms/div
 -1.926
 -739e-3
 Δ y 1.188

F4 <F3> 1.00/div 1.00 ms/div
 128 #
 -1.84501
 -470.74e-3
 Δ y 1.37427



Tbase -4.00 ms TriggerExtD DC
 wStream 1.00 ms Normal 30 mV
 50.0 kS 5.0 MS/s Edge Negative
 X1= -243.6 μ s Δ X= 1.8706 ms
 X2= 1.6270 ms 1/X= 534.59 Hz

C2	C4	F3	F4	<F3>
500 mV/div	100 V/div	2.00/div	1.00/div	1.00/div
75 mV offset	201.0 V offset	1.00 ms/div	1.00 ms/div	1.00 ms/div
325 mV	-2.5 V	-1.882	-1.98295	27 #
-58 mV	3.4 V	-790e-3	-640.29e-3	
Δ -383 mV	Δ 6.0 V	Δ 1.092	Δ 1.34266	



C2	DC	500 mV/div	75 mV offset	345 mV	-107 mV	-452 mV	Δy
C4	DC	100 V/div	201.0 V offset	8.2 V	11.1 V	2.9 V	Δy
F3	script(C3,C2)	2.00/div	1.00 ms/div	-1.645	-688e-3	957e-3	Δy
F4	<F3>	1.00/div	1.00 ms/div	61 #	-659.26e-3		Δy
Tbase	-5.06 ms	Normal	30 mV	Edge	Negative	X1= 60.0 μs	$\Delta X= 1.5670$ ms
WStream	1.00 ms	50.0 kS	5.0 MS/s	X2= 1.6270 ms	1/ΔX= 638.16 Hz		