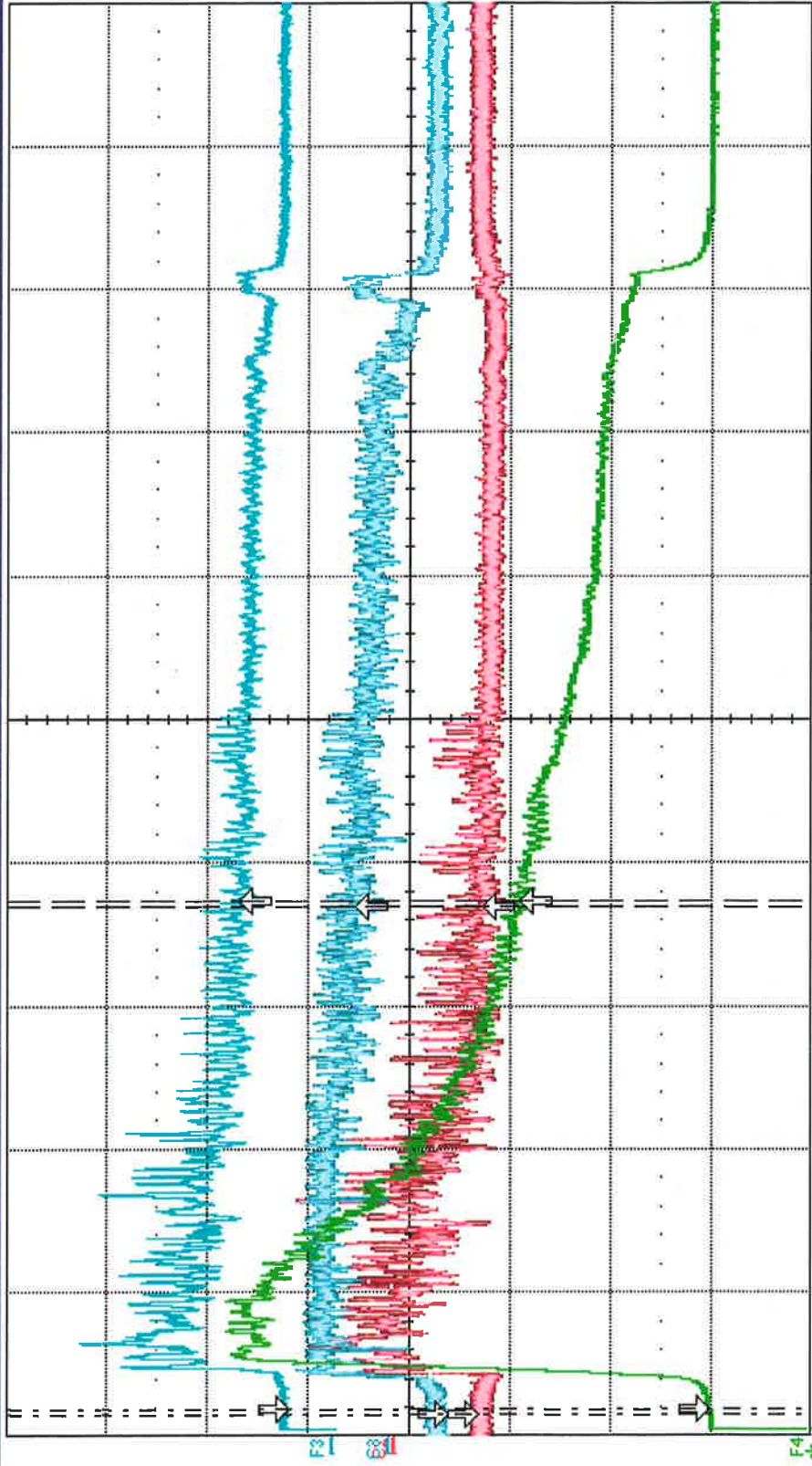


C1	C2IM	C3IM	Math	<C4>
↓	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
↑	9.00 mV ofst	4.50 mV ofst	1.00 mV/div	1.00 mV/div
↑	-19.10 mV	↓	132.2	132.2
↑	-1.99 mV	↑	4.9398 mV	4.9398 mV
Δy	17.11 mV	Δy	3.0348 mV	3.0348 mV
			7.9627 mV	7.9627 mV

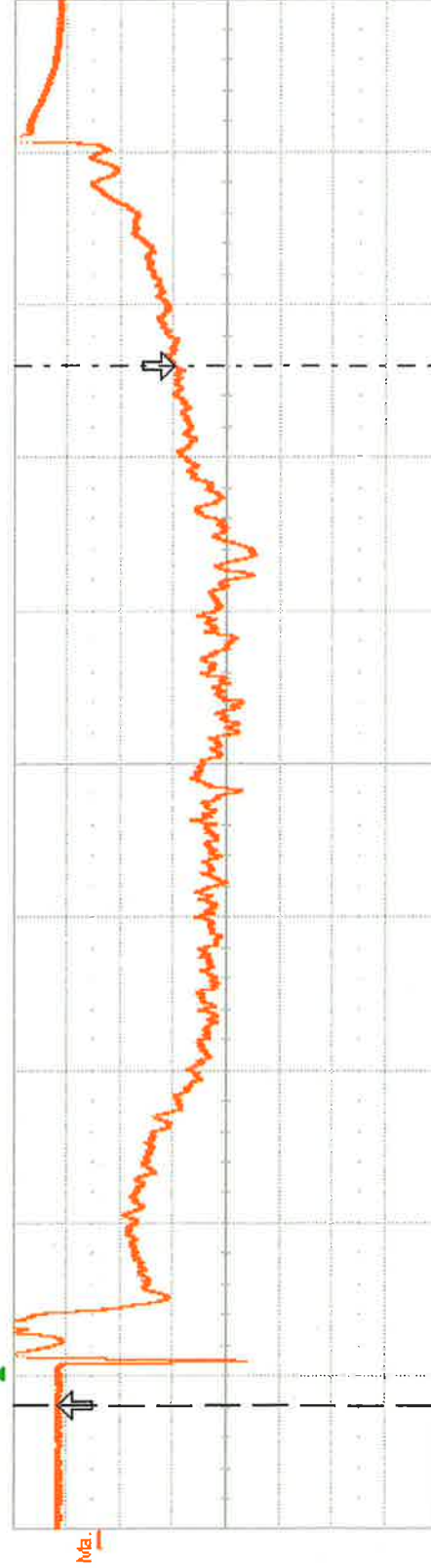
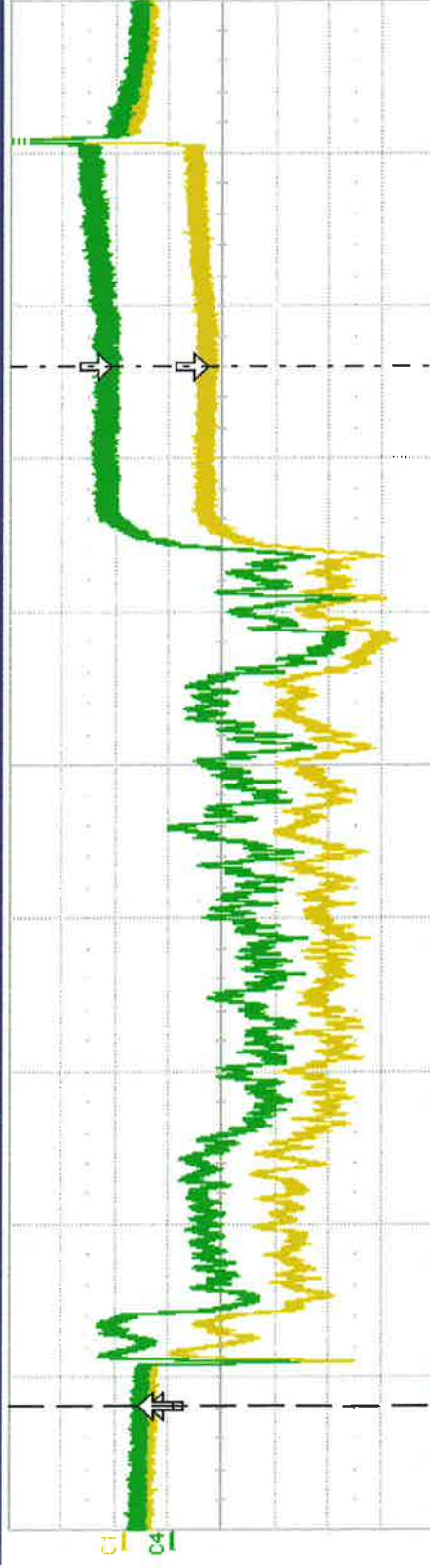
Timebase	-4.00 ms	Trigger	Edge
	1.00 ms/div	Normal	700 mV
	2.00 MS	Edge	Negative
		X1=	3.293210 ms
		$\Delta X=$	-3.396850 ms
		X2=	-103.640 μ s
		1/ $\Delta X=$	-294.3904 Hz

LeCroy

10/8/2020 12:54:39 PM

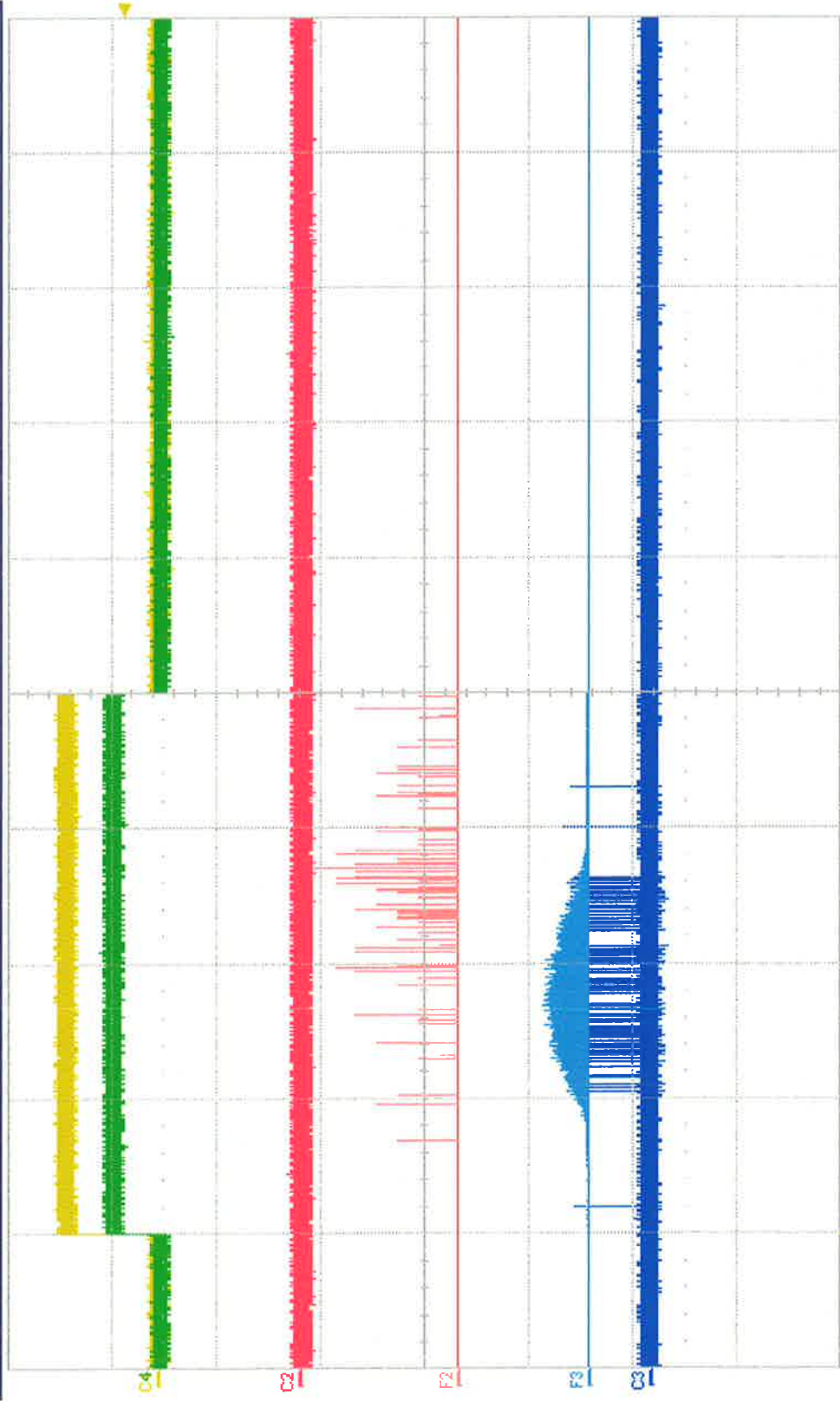


C2	DCIM	500 mV/div 75 mV offset	-411 mV -449 mV -38 mV	Δy
C3	DCIM	500 mV/div 100 mV offset	-286 mV 160 mV 446 mV	Δy
F3	script(C3,C2)	2.00/div 500 μs/div	862e-3 1.813 951e-3	Δy
F4	4F3	500e-3/div 500 μs/div	86 # 1.06390 1.99272	Δy
Tbase	-2.50 ms			
WStream	500 μs			
50.0 kS	10 MS/s			
TriggerExt	10			
Normal	30 mV			
Edge	Negative			
X1	76.1 μs	ΔX=	1.7676 ms	
X2	1.8437 ms	1/ΔX=	565.74 Hz	



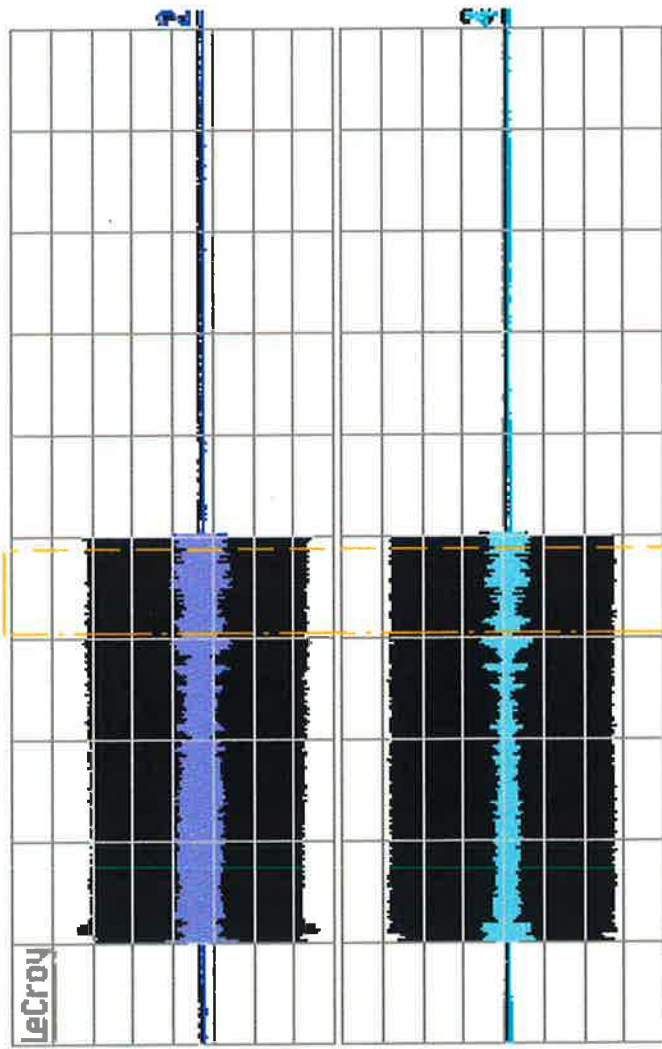
C1	C4	Math	<C4>
5.00 mV/div	5.00 mV/div	4.00 mV/div	500 μ s/div
9.00 mV/div	4.50 mV/div		18 #
-17.91 mV	-7.24 mV		-5.4636 mV
-2.26 mV	2.23 mV		2.9825 mV
-15.62 mV	9.47 mV		8.4461 mV
Δy	Δy	Δy	Δy

Timebase	-1.99 ms	Trigger	Ext10 DC
500 μ s/div	Normal	Edge	Negative
2.00 MS	400 MS/s		
X1=	3.293210 ms	$\Delta X=$	-3.396850 ms
X2=	-103.640 μ s	1/ $\Delta X=$	-294.3904 Hz



C1	D1	5.00 V	12.70 V
C2	D1	5.00 V	5.96 V
C3	D3	5.00 V	-11.0 V
C4	D3	10.0 V	25.30 V
F2 peris...	F2 peris...	5.00 #	1.0 ms
F3 peris...	F3 peris...	5.00 #	1.0 ms
Thase	-4.00 ms	Trigger	C100
500 kS	1.00 ms/div	Normal	1.85 V
	50 MS/s	Edge	Positive

8-Oct-20
13:01:52



1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

240 sweeps:

	average	low	high	sigma
rms(1)	391.2 mV	377.4	410.0	11.4
rms(2)	67.7 mV	49.9	83.9	9.4
rms(3)	376.0 mV	371.6	385.5	2.6
rms(4)	61.0 mV	36.3	83.6	16.4
phase(1,3)	0.07 k°	0.03	0.13	0.04

1 ms

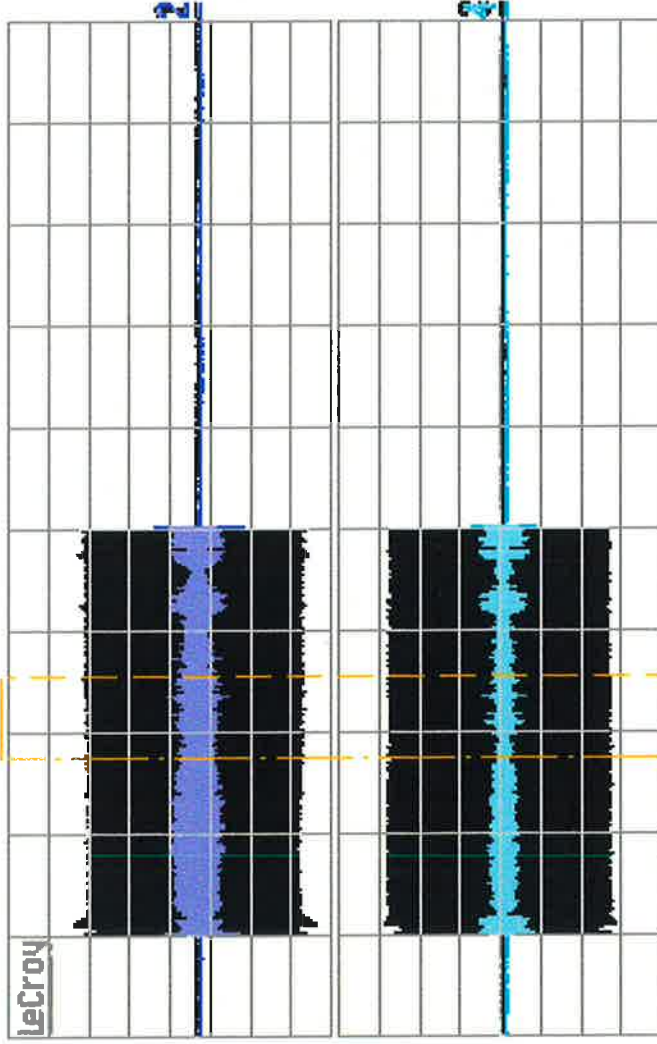
1 .2 V AC
2 .2 V AC
3 .2 V AC
4 .2 V AC

10 MS/s

Ext10 DC 0.15 V 50Ω

☐ NORMAL

8-Oct-20
13:02:10



1 1 ms
200 mV

2 1 ms
200 mV

3 1 ms
200 mV

4 1 ms
200 mV

5 sweeps:

	average	low	high	sigma
rms(1)	374.7mV	374.0	375.6	0.8
rms(2)	53.5mV	49.3	55.7	2.9
rms(3)	377.8mV	377.6	378.1	0.2
rms(4)	29.7mV	29.1	30.2	0.4
phase(1,3)	0.08 k°	0.03	0.13	0.04

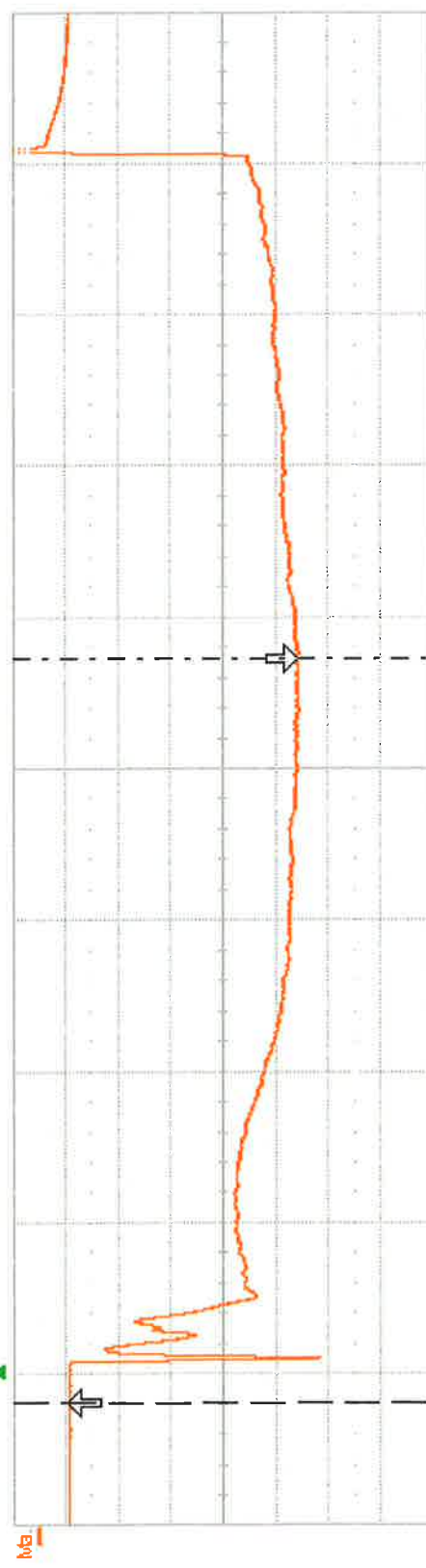
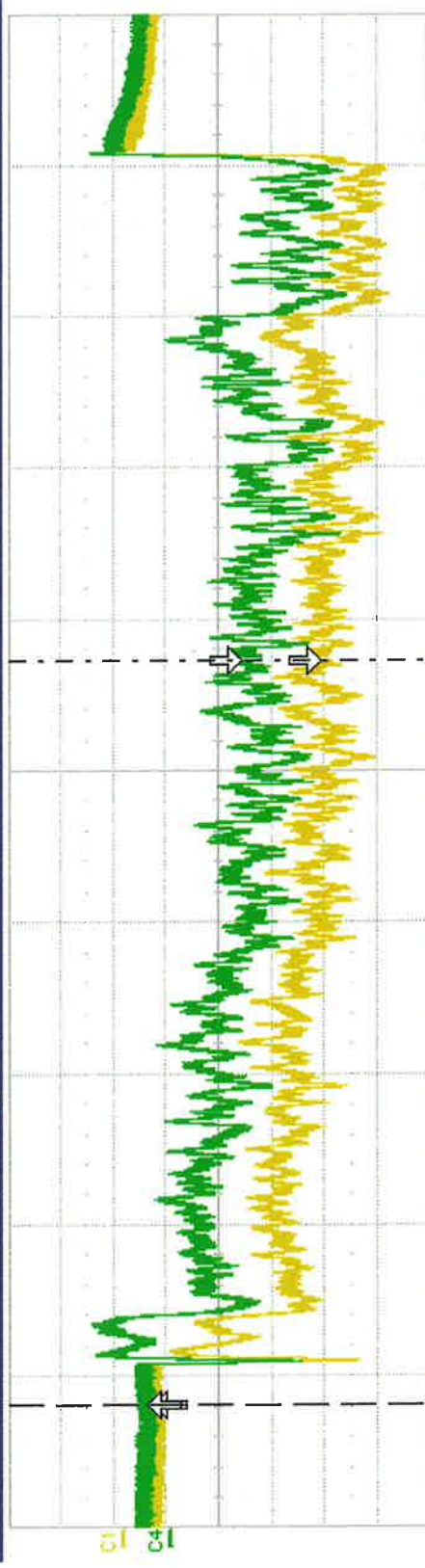
1 ms

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

10 MS/s

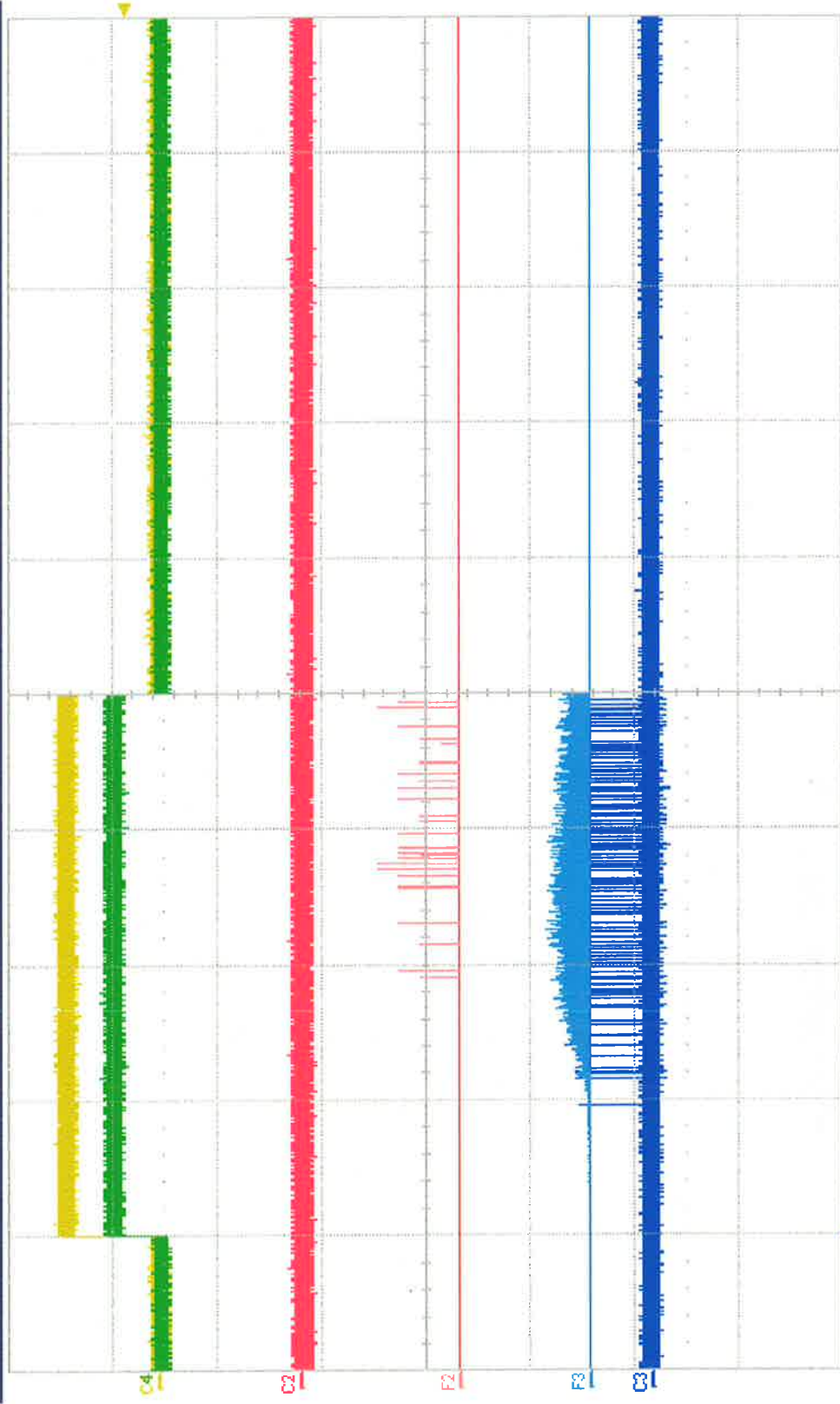
Ext10 DC 0.15 V 50Ω

☐ NORMAL



C1	DCIM	C4	DCIM	Math	<C1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	4.50 mV ofst	500 μs/div	500 μs/div
↑	↑	↑	↑	400 #	400 #
Δy	Δy	Δy	Δy	Δy	Δy
-18.66 mV	-18.66 mV	-6.57 mV	-6.57 mV	-18.5174 mV	-18.5174 mV
-2.96 mV	-2.96 mV	2.15 mV	2.15 mV	-2.3455 mV	-2.3455 mV
15.71 mV	15.71 mV	8.72 mV	8.72 mV	17.1708 mV	17.1708 mV

Timebase	-1.99 ms	Trigger	Edge	Exc10	DC
2.00 MS	500 μs/div	Normal	Edge	700 mV	Negative
X1=	2.349145 ms	ΔX=	-2.452785 ms		
X2=	-103.640 μs	1/ΔX=	-407.6998 Hz		

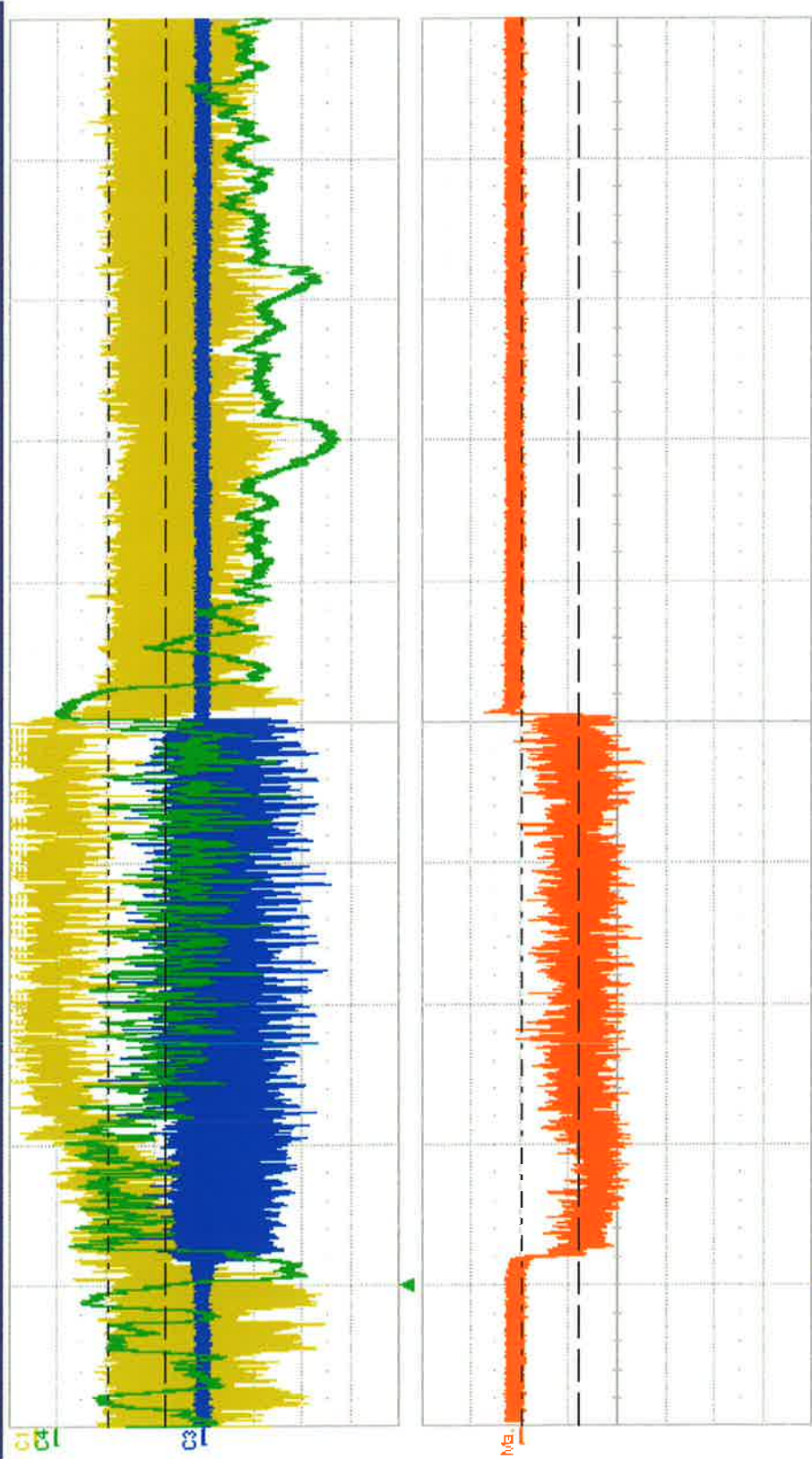


Thase -4.00 ms Trigger C1DC
1.00 ms/div Normal 1.55 V
500 kS 50 MS/s Edge Positive

C1 D1 C2 D1 C3 D1 C4 D1 F3 peris...
5.00 V 5.00 V 5.00 V 10.0 V 2.00 k#
12.70 V 5.95 V -11.0 V 25.30 V 1.0 ms
73 # 166 k#

TELEDYNE LECROY

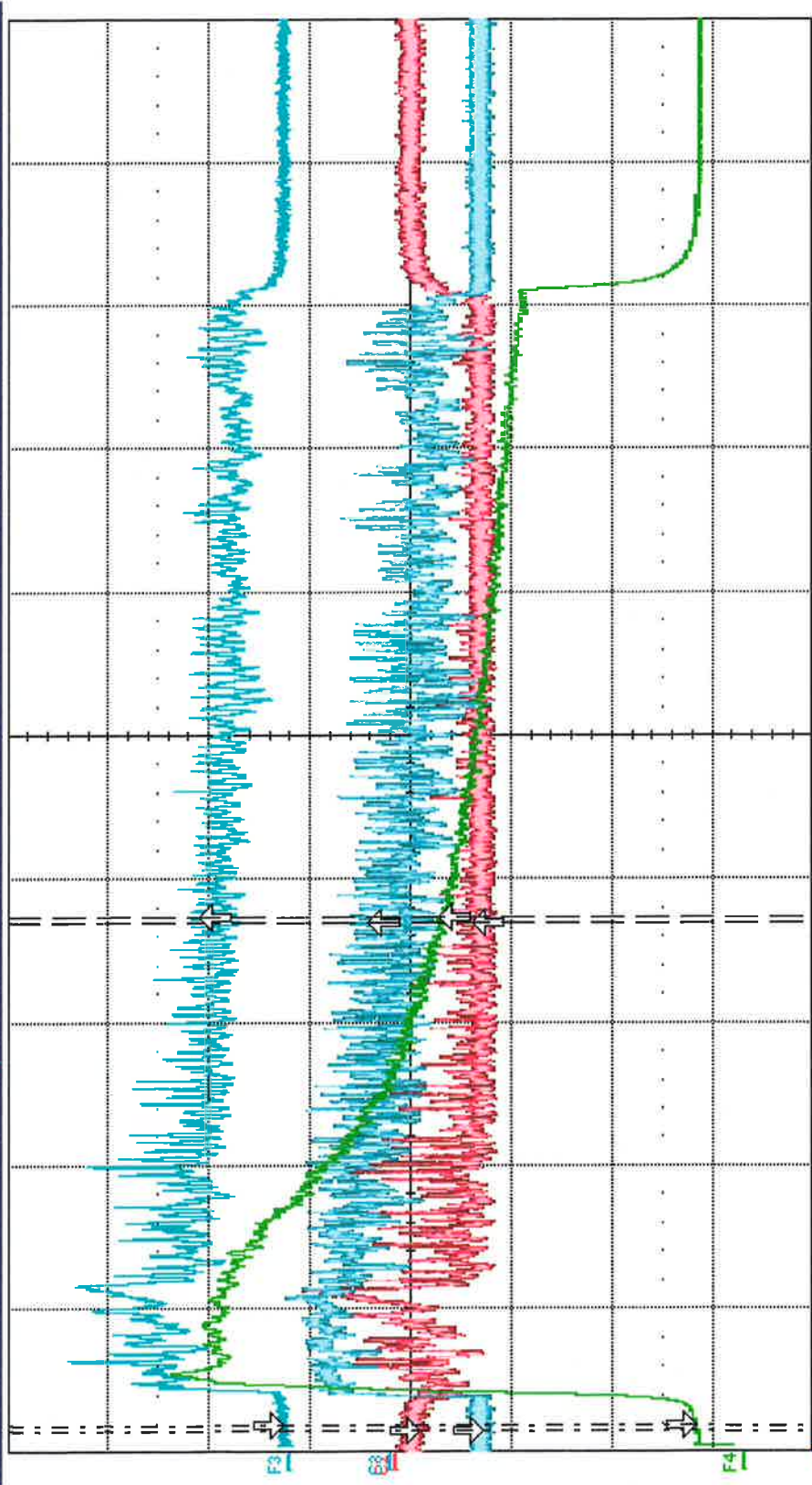
10/8/2020 1:03:49 PM



Timebase -4.00 ms
 1.00 ms/div
 1.00 MS
 Trigger Normal
 Edge
 Extrio DC
 700 mV
 Negative

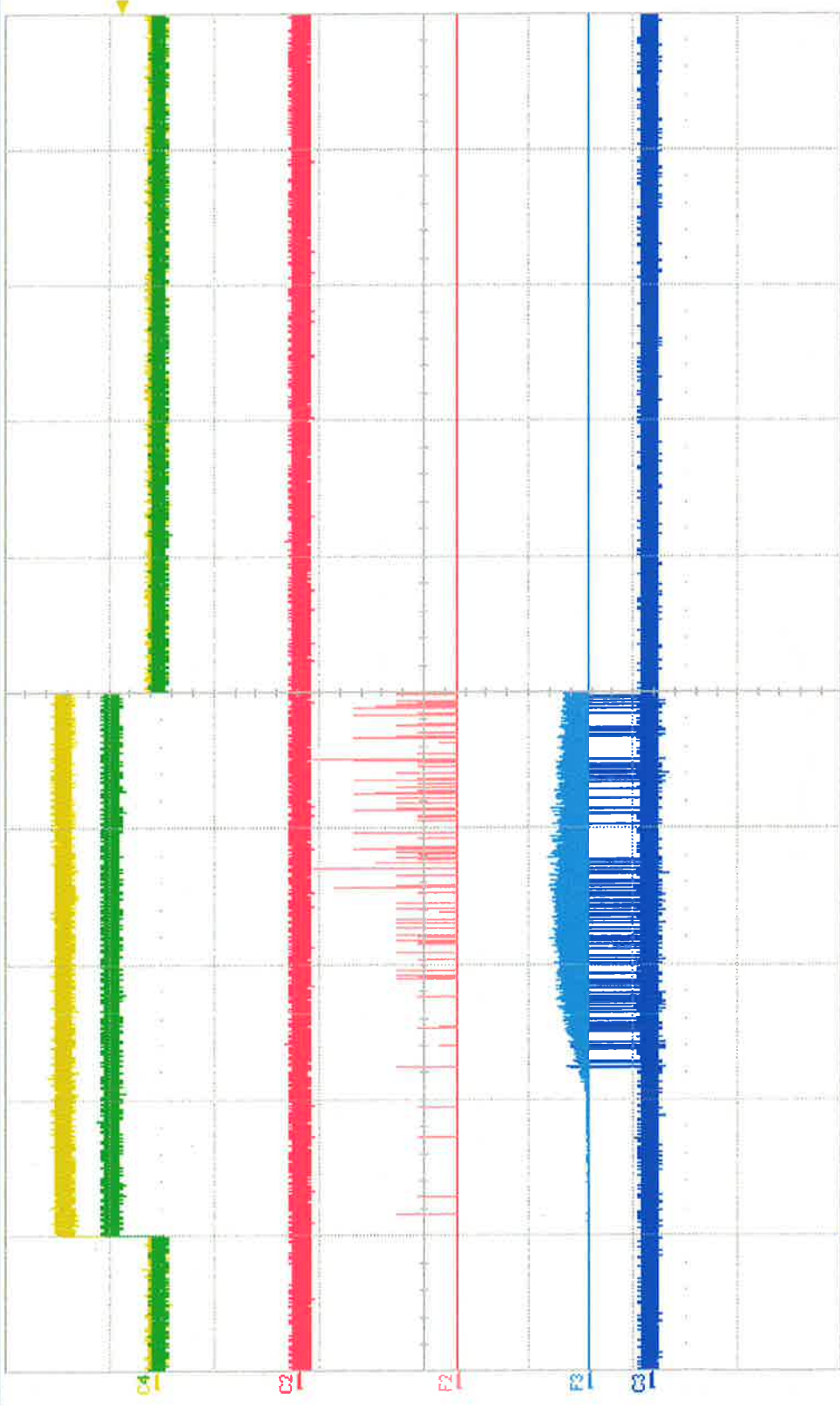
Channel	Scale	Offset	Math	Scale	Offset
C1	200 mV/div	680.0 mV offset	DCIM	1.00 A/div	1.00 ms/div
C3	5.00 A/div	0.00 A offset	B3	100 V/div	300.0 V offset
M1	1.00 A/div	0.00 A offset	<C3>	1.00 A/div	1.00 ms/div

Delta Y values: C1: -268 mV, -524 mV, -236 mV; C3: 9.80 A, 3.90 A, -5.90 A; M1: -104 V, -222 V, -118 V; <C3>: 18.2, 0.00 A, -1.18 A, -1.18 A.



Tbase -2.50 ms TriggerExt10 DC
 WStream 500 μ s Normal 30 mV
 50.0 kS 10 MS/s Edge Negative
 X1= 76.1 μ s Δ X= 1.7676 ms
 X2= 1.8437 ms 1 Δ X= 565.74 Hz

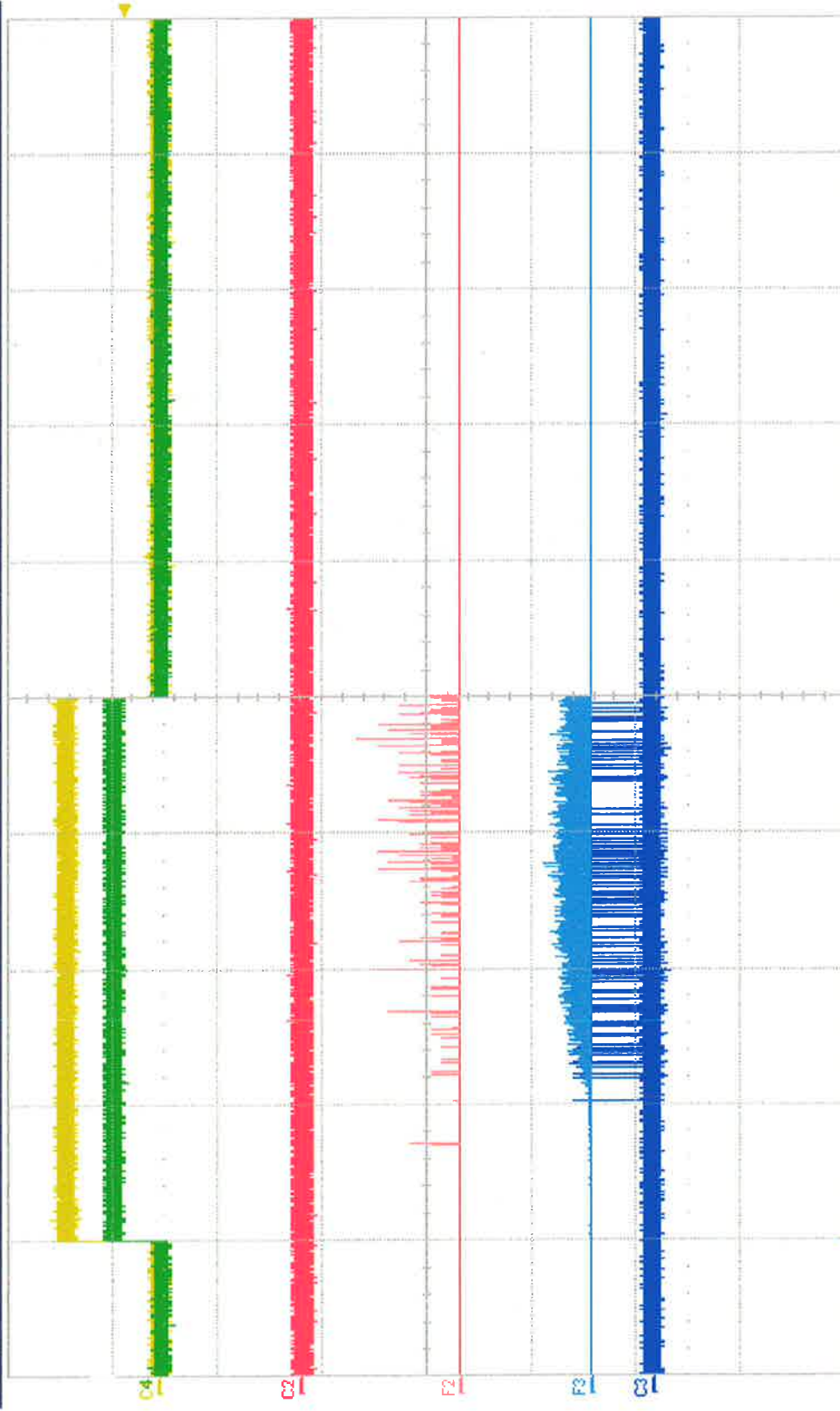
C2	C3	F3	F4	<F3>
500 mV/div	500 mV/div	script(C3,C2)	500e-3/div	500e-3/div
75 mV offset	100 mV offset	2.00/div	500 μ s/div	500 μ s/div
		500 μ s/div	304 #	304 #
			252.32e-3	252.32e-3
			1.724	1.51221
			1.576 Δ y	1.25989



Tbase -4.00 ms
 1.00 ms/div
 500 kS

Trigger C1 DE
 Normal
 Edge
 Positive

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
F2 peris... 5.00 # 1.0 ms 231 #
F3 peris... 5.00 k# 1.0 ms 405 k#

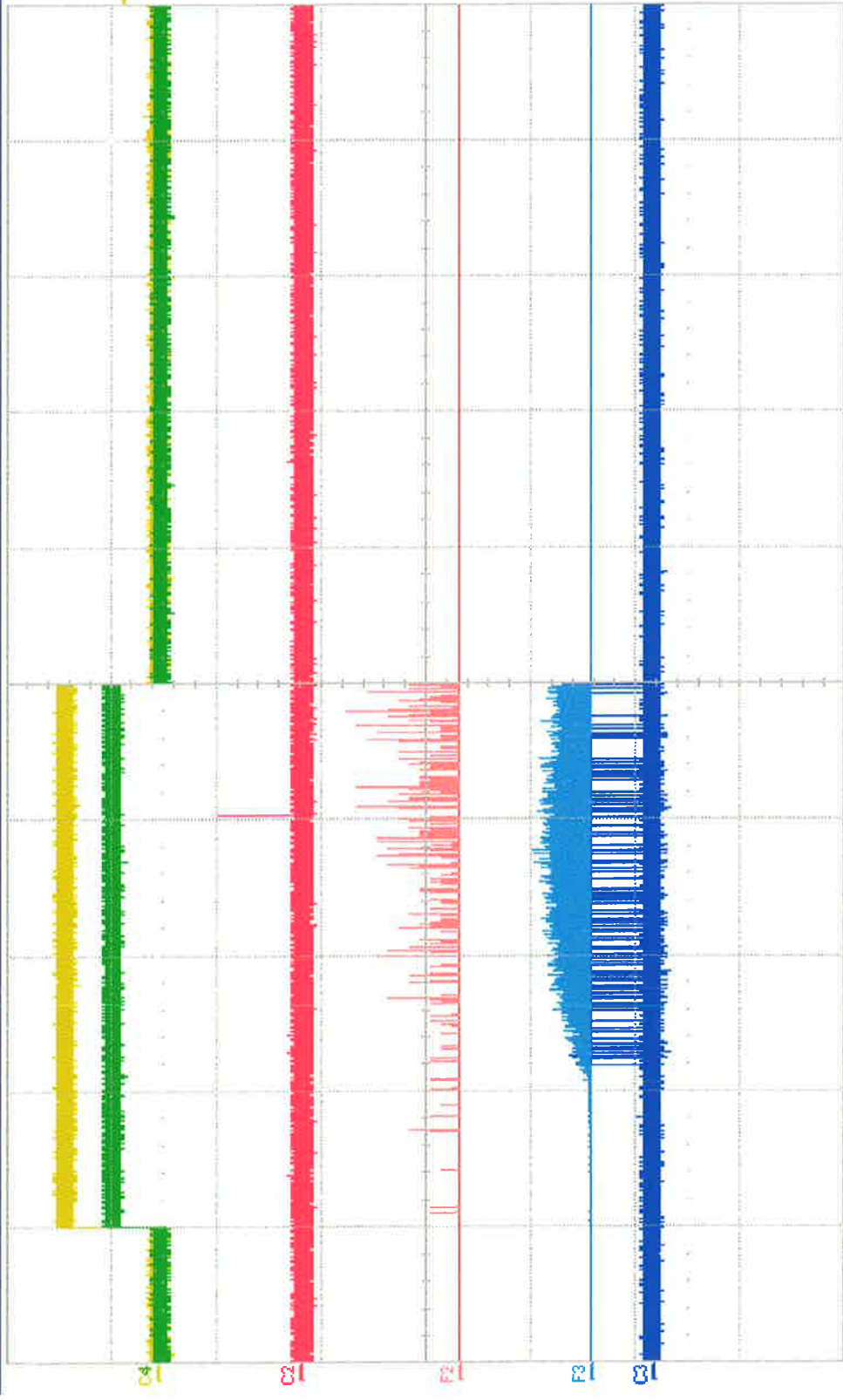


Tbase -4.00 ms Trigger ☒ DC
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

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 25.38 V
 F2 peris... 10.0 # 1.0 ms 420 #
 F3 peris... 2.00 k# 1.0 ms 163 k#

TELEDYNE LECROY

10/8/2020 1:09:58 PM

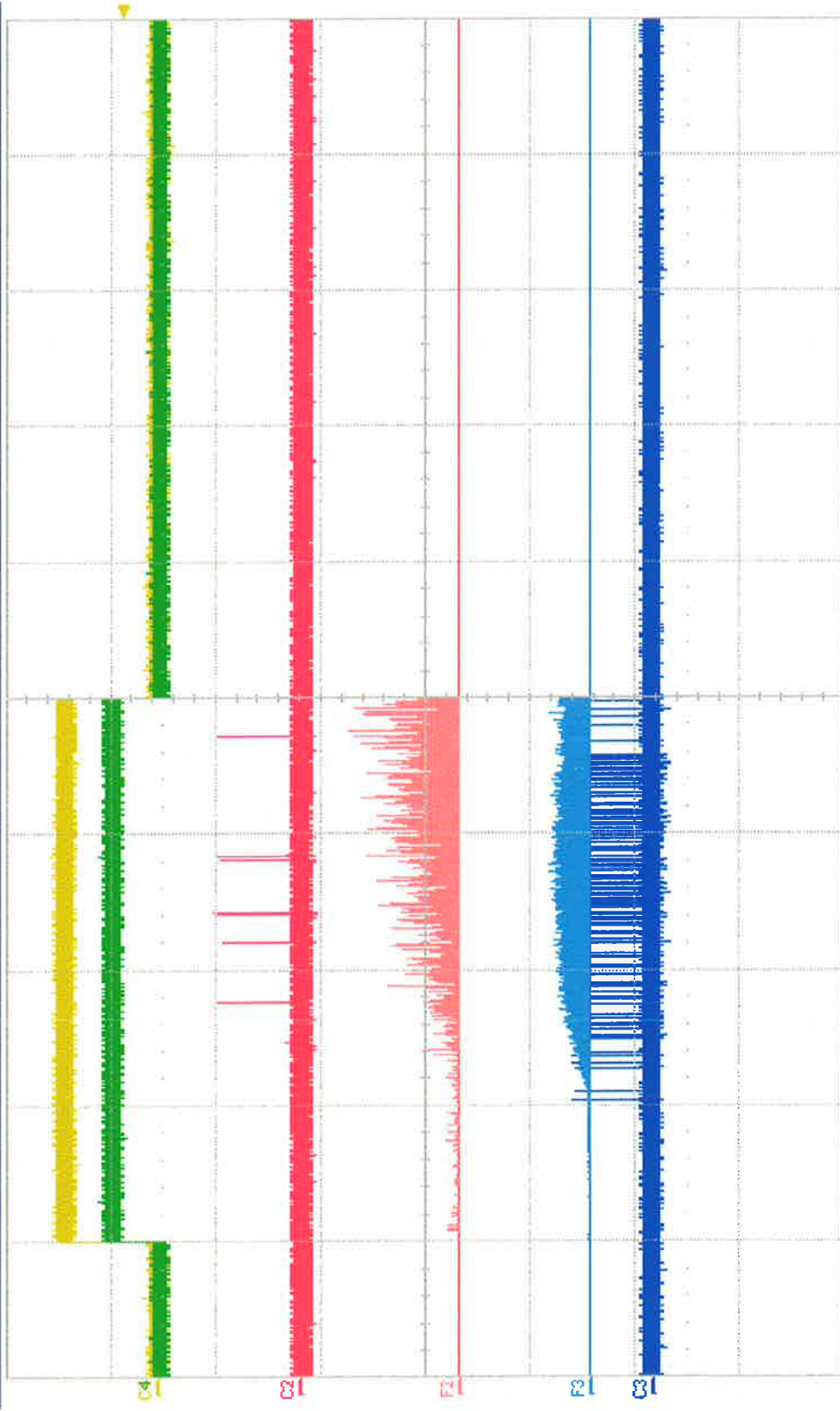


Tbase -4.00 ms Trigger C100
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

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... 10.0 # 1.0 ms 581 #
 F3 peris... 2.00 k# 1.0 ms 210 k#

TELEDYNE LECROY

10/8/2020 1:10:39 PM

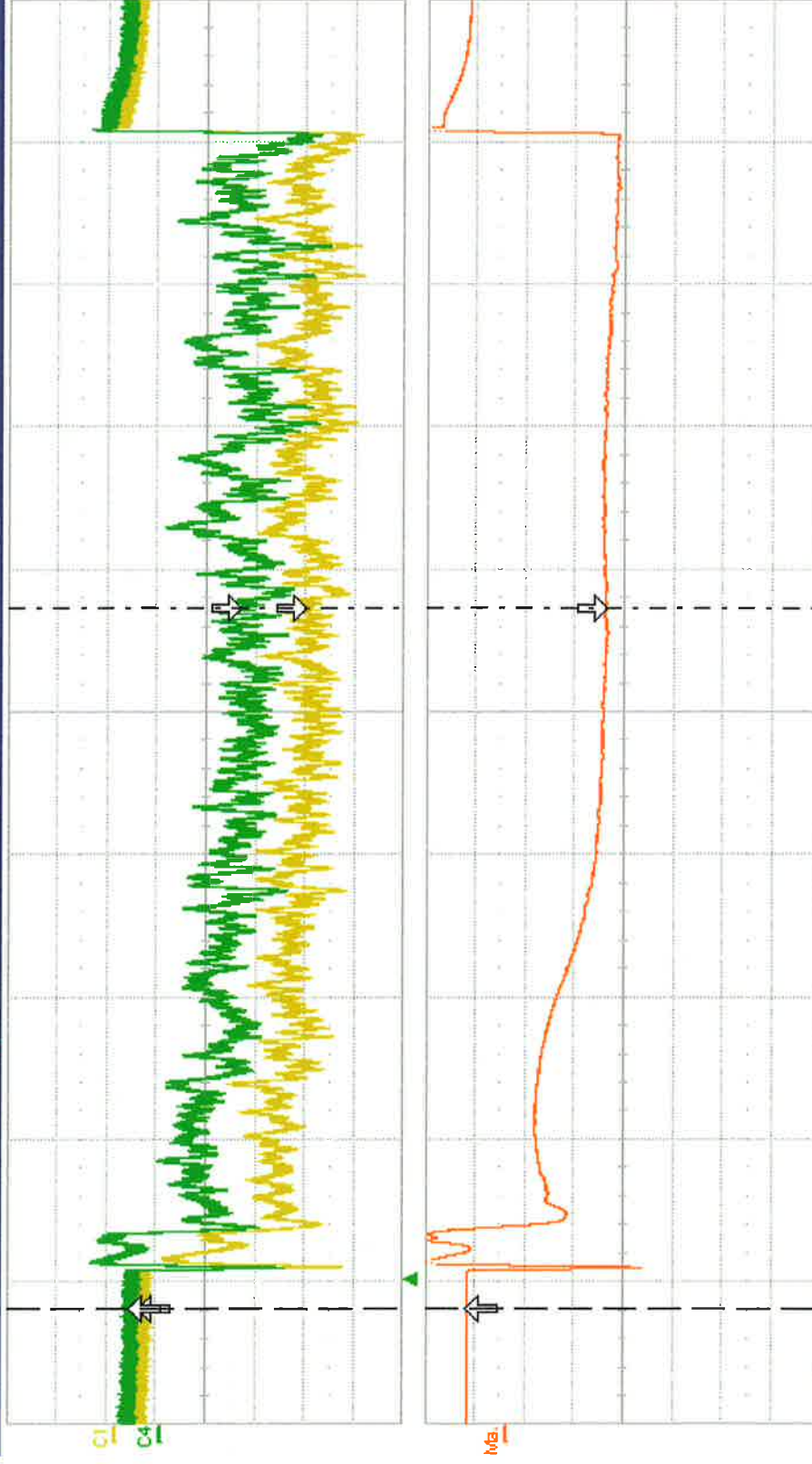


Timebase -4.00 ms Trigger C1 DC
 1.00 ms/div Normal 1.65 V
 500 kS 50 MS/s Edge Positive

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... 50.0 # 1.0 ms 5.89 k#
 F3 peris... 5.00 k# 1.0 ms 414 k#

TELEDYNE LECROY

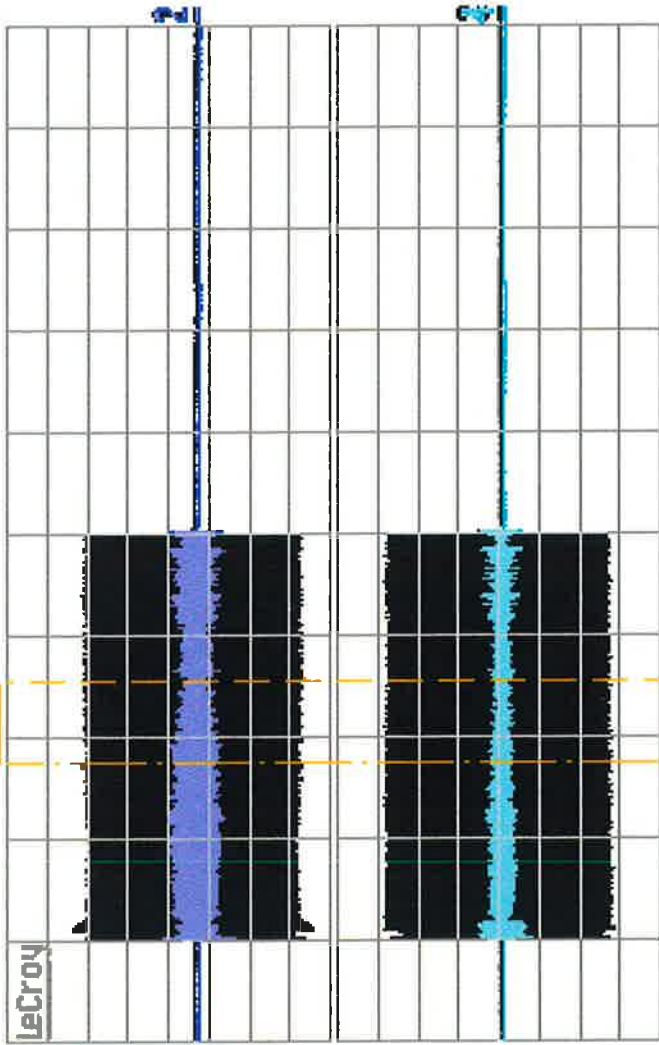
10/8/2020 1:16:48 PM



C1	DCIM	C4	DCIM	Math	<C4>
5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	500 μ s/div	500 μ s/div	500 μ s/div
-18.94 mV	-18.94 mV	-7.88 mV	1.458 μ A	1.458 μ A	1.458 μ A
-2.49 mV	-2.49 mV	3.00 mV	-8.0827 mV	-8.0827 mV	-8.0827 mV
16.45 mV	16.45 mV	10.88 mV	3.0789 mV	3.0789 mV	3.0789 mV
Δy	Δy	Δy	11.1615 mV	11.1615 mV	11.1615 mV

Timebase	-1.99 ms	Trigger	Ext10 DC
500 μ s/div	500 μ s/div	Normal	700 mV
2.00 MS	400 MS/s	Edge	Negative
X1=	2.349145 ms	$\Delta X=$	-2.452785 ms
X2=	-103.640 μ s	1/ $\Delta X=$	-407.6998 Hz

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1 1 ms
200 mV

2 1 ms
200 mV

3 1 ms
200 mV

4 1 ms
200 mV

1503 sweeps:

	average	low	high	sigma
rms(1)	372.7mV	368.1	377.1	1.7
rms(2)	57.5mV	47.4	67.2	3.0
rms(3)	379.2mV	375.7	383.0	1.6
rms(4)	29.7mV	23.4	35.6	1.9
phase(1,3)	76 °	28	131	36

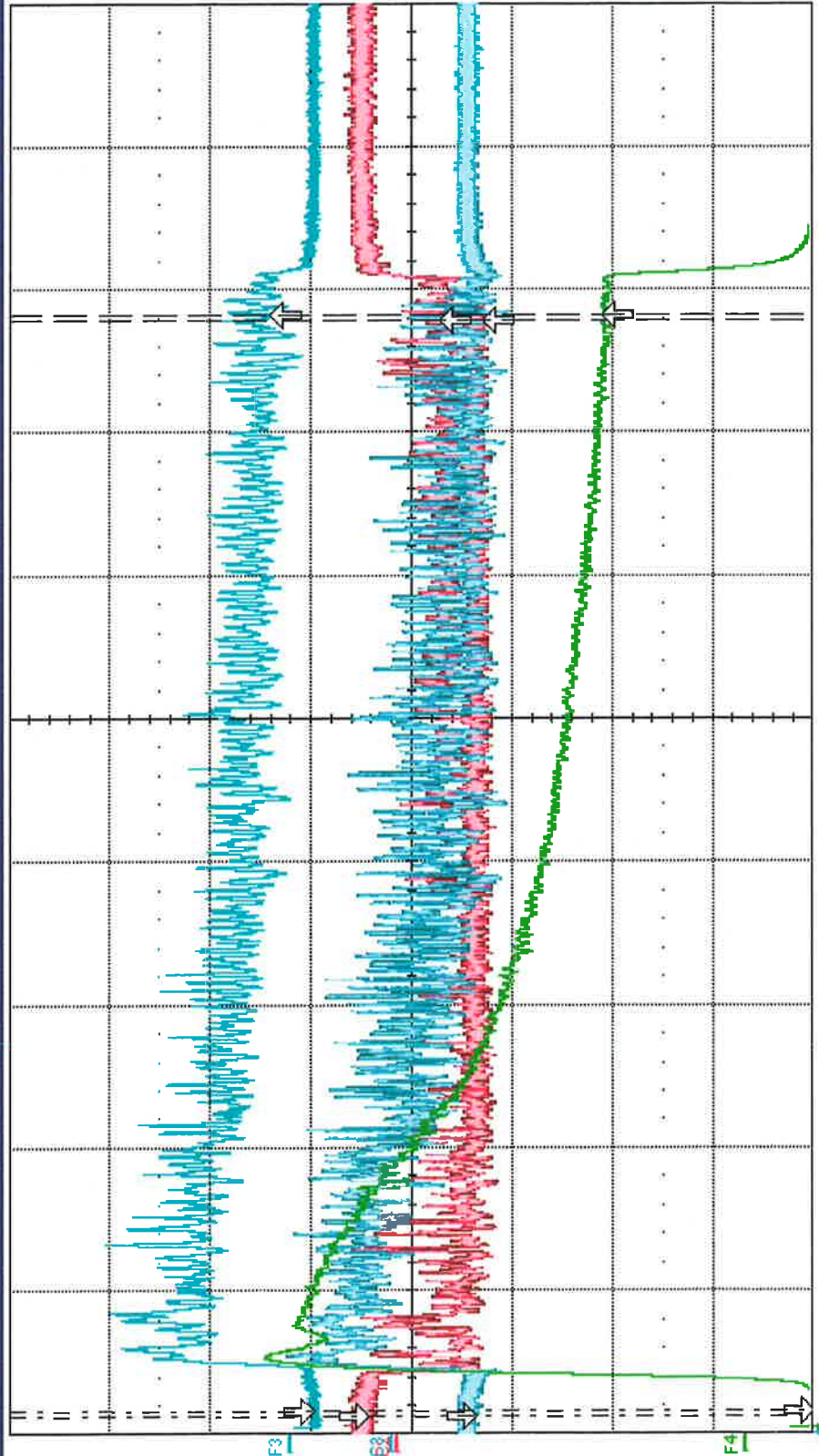
1 ms

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

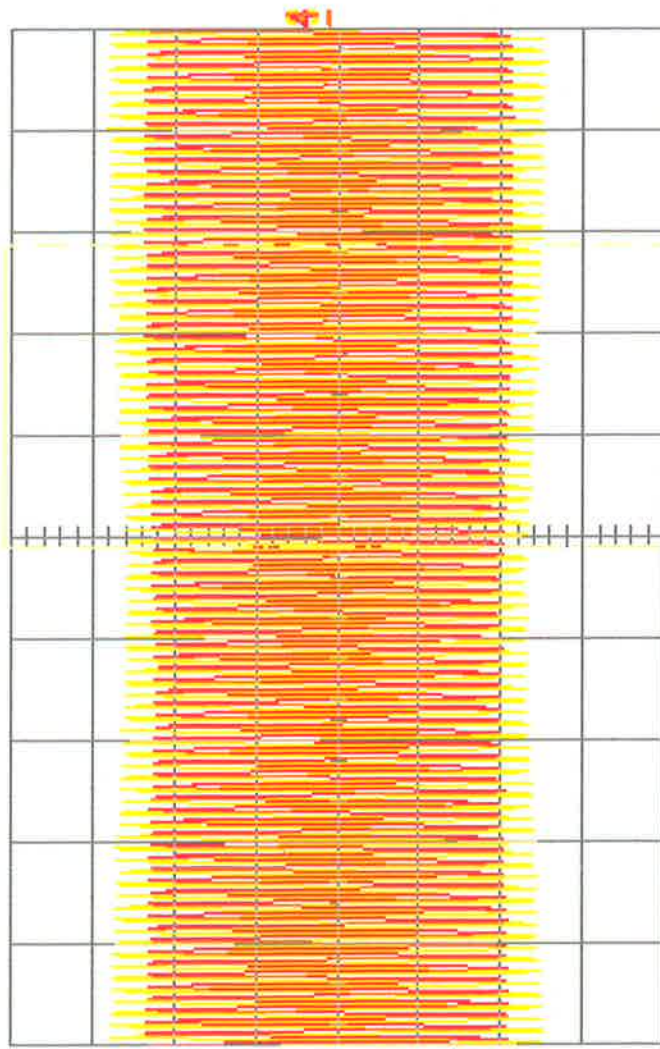


Tbase -2.50 ms Trigger Ext 10 DC
 WStream 500 μ s Normal 30 mV
 50.0 kS 10 MS/s Edge Negative
 X1= 63.5 μ s Δ X= 3.8298 ms
 X2= 3.8933 ms 1/ Δ X= 261.110 Hz

C2	C3	F3	F4	F3
500 mV/div	500 mV/div	script(C3,C2)	500e-3/div	500e-3/div
75 mV offset	100 mV offset	2.00/div	500 μ s/div	500 μ s/div
149 mV	-416 mV	-444e-3	621 #	621 #
-219 mV	-462 mV	343e-3	-355.21e-3	-355.21e-3
-366 mV	-46 mV	787e-3	708.11e-3	708.11e-3
Δ y	Δ y	Δ y	Δ y	Δ y
				1.06332

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3 2 μ s
0.50 V



← 2.2200 ms

4 2 μ s
0.50 V

1973 sweeps: average low high sigma
phase(4,3) -97.6° -107.5 -83.9 2.8
rms(1) 12.6mV 11.9 13.7 0.5
rms(2) 137mV 125 147 6
rms(4) 747.3mV 548.8 937.3 44.8
rms(3) 0.9247 V 0.7558 1.2681 0.0489

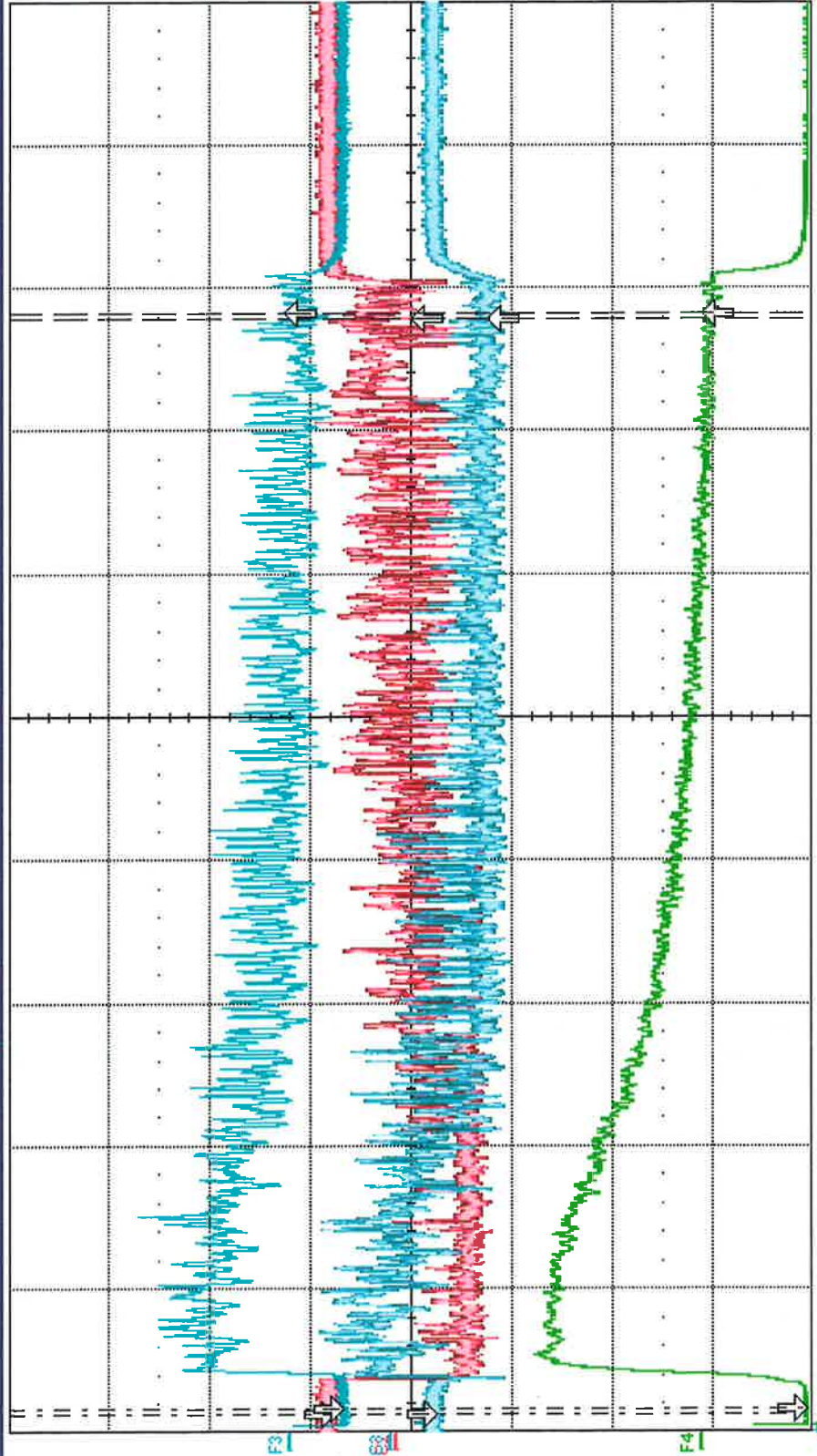
2 μ s

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

1 GS/s

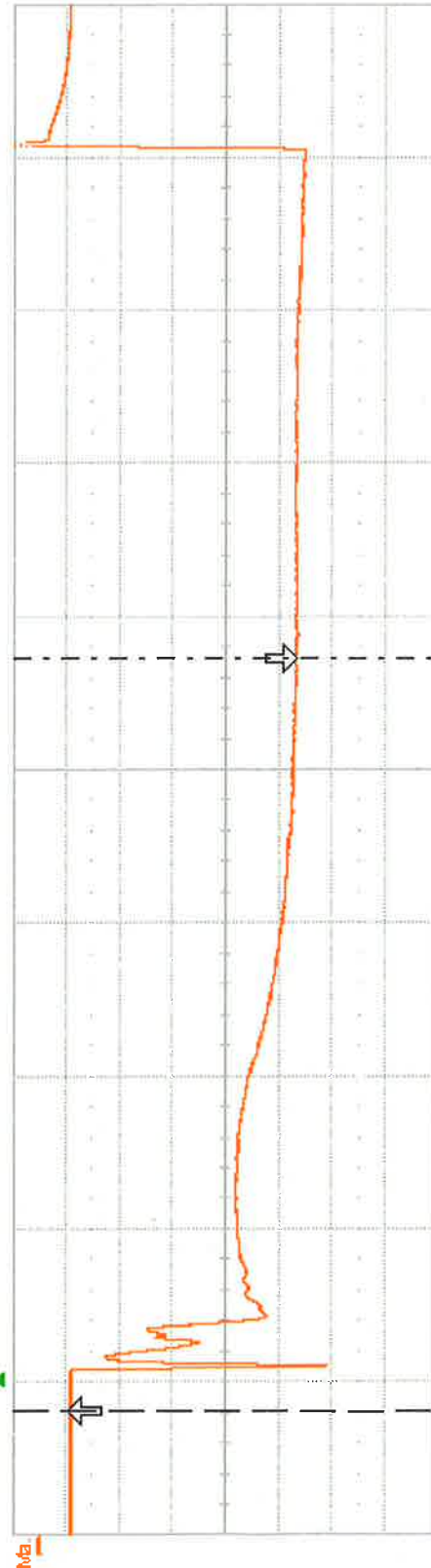
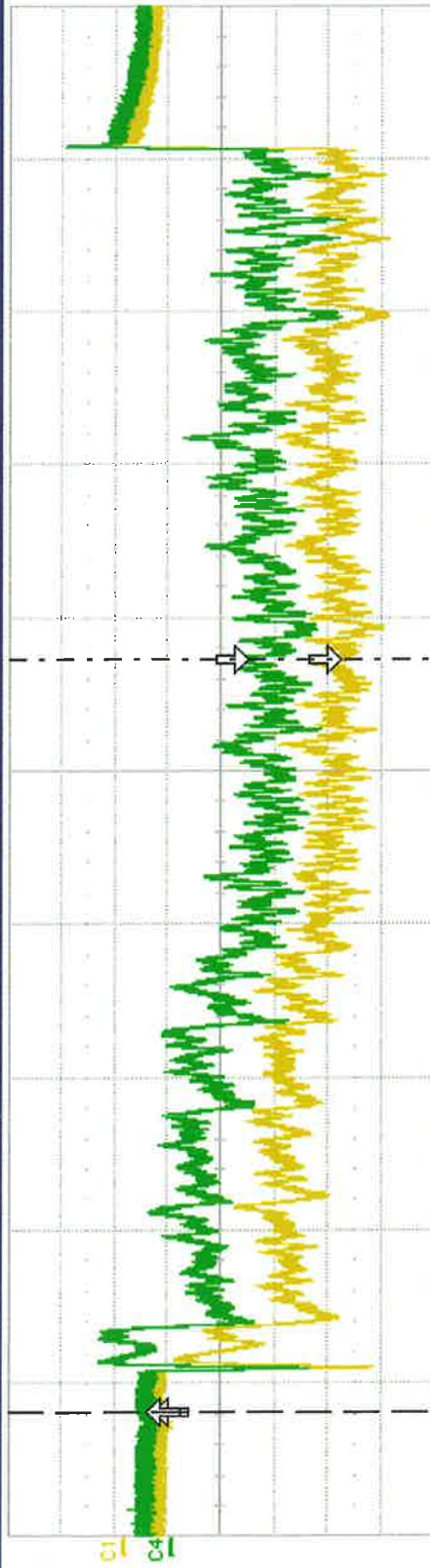
Ext10 DC 0.15 V 50 Ω

☐ NORMAL



C2 DCIM		F3 script(C3,C2)		F4 <F3>	
500 mV/div	75 mV offset	500 mV/div	2.00/div	1.00/div	500 μ s/div
315 mV	-87 mV	-222 mV	-1.057	-1.05470	85 #
Δ	-402 mV	-486 mV	76e-3	-34.49e-3	
		Δ	1.133	Δ	1.02021

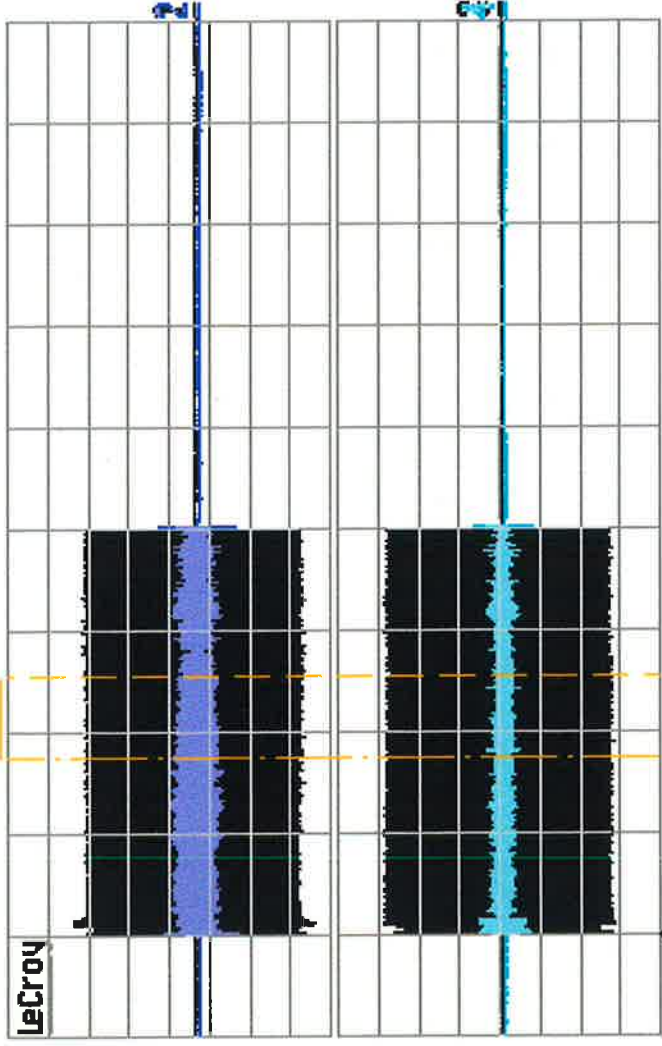
Thase -2.50 ms		TriggerExt 10 DC	
WStream	500 μ s	Normal	30 mV
50.0 kS	10 MS/s	Edge	Negative
X1=	63.5 μ s	Δ X=	3.8298 ms
X2=	3.8933 ms	1 Δ X=	261.110 Hz



C1	DCIM	C4	DCIM	Math	eC1>
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div	4.00 mV/div	4.00 mV/div
9.00 mV ofst	9.00 mV ofst	4.50 mV ofst	4.50 mV ofst	500 μ s/div	500 μ s/div
-20.09 mV	-20.09 mV	-6.91 mV	-6.91 mV	1.631 k Ω	1.631 k Ω
-2.92 mV	-2.92 mV	2.18 mV	2.18 mV	-19.3217 mV	-19.3217 mV
17.17 mV	17.17 mV	9.10 mV	9.10 mV	2.3690 mV	2.3690 mV
Δy	Δy	Δy	Δy	18.9528 mV	18.9528 mV

Timebase	-1.99 ms	Trigger	Edge	Normal	700 mV	Negative
2.00 MS	400 MS/s	Edge	Normal	700 mV	Negative	
X1=	2.349145 ms	$\Delta X=$	-2.452785 ms			
X2=	-103.640 μ s	1/ $\Delta X=$	-407.6998 Hz			

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13:55:00



1
1 ms
200 mV

2
1 ms
200 mV

3
1 ms
200 mV

4
1 ms
200 mV

3171 sweeps:

rms(1)	average	low	high	sigma
rms(2)	372.8 mV	368.1	377.1	1.7
rms(3)	58.4 mV	47.4	68.3	2.9
rms(4)	380.3 mV	375.7	384.5	1.8
phase(1,3)	29.9 mV	23.4	36.1	1.8
	77 °	28	131	36

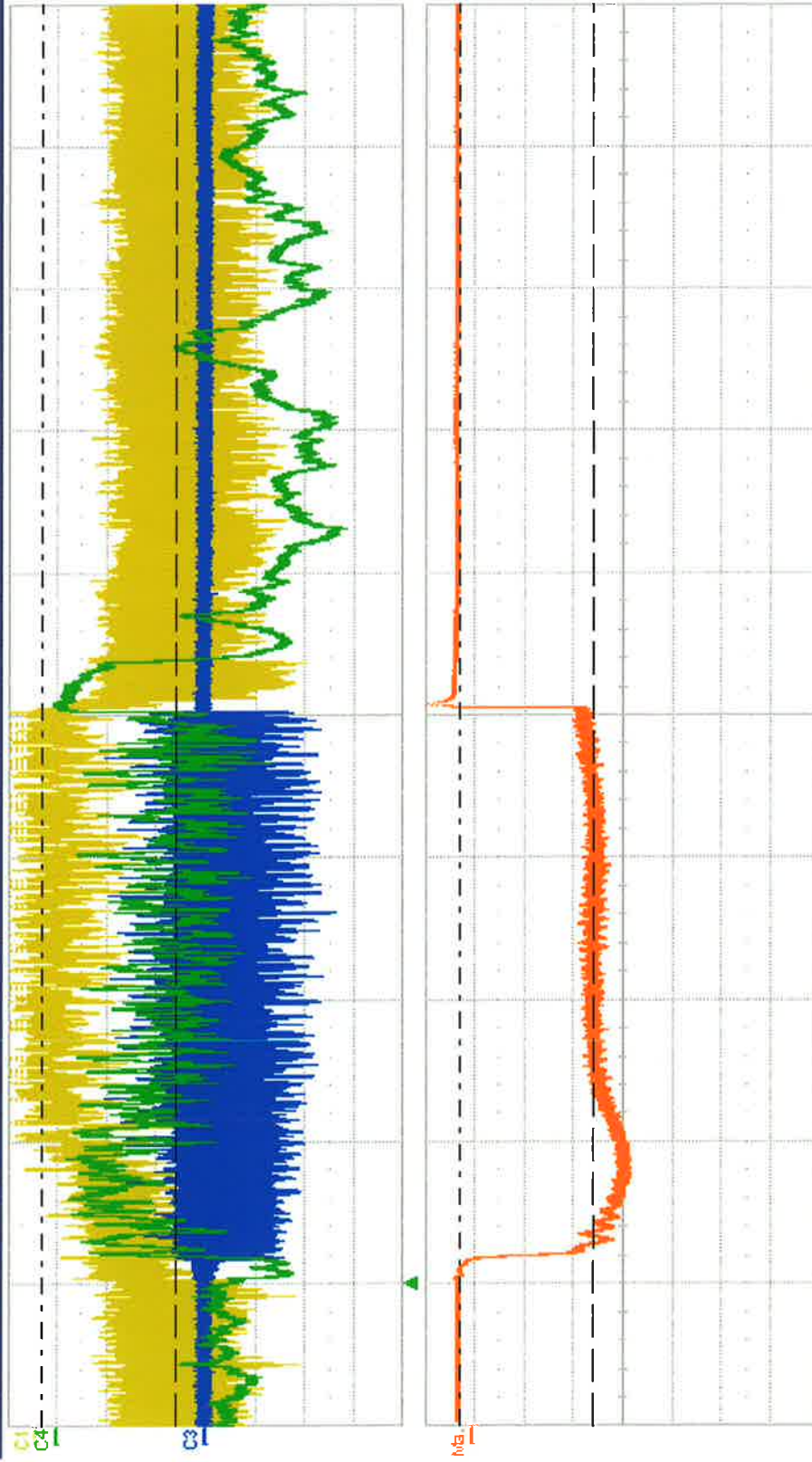
1 ms

- 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



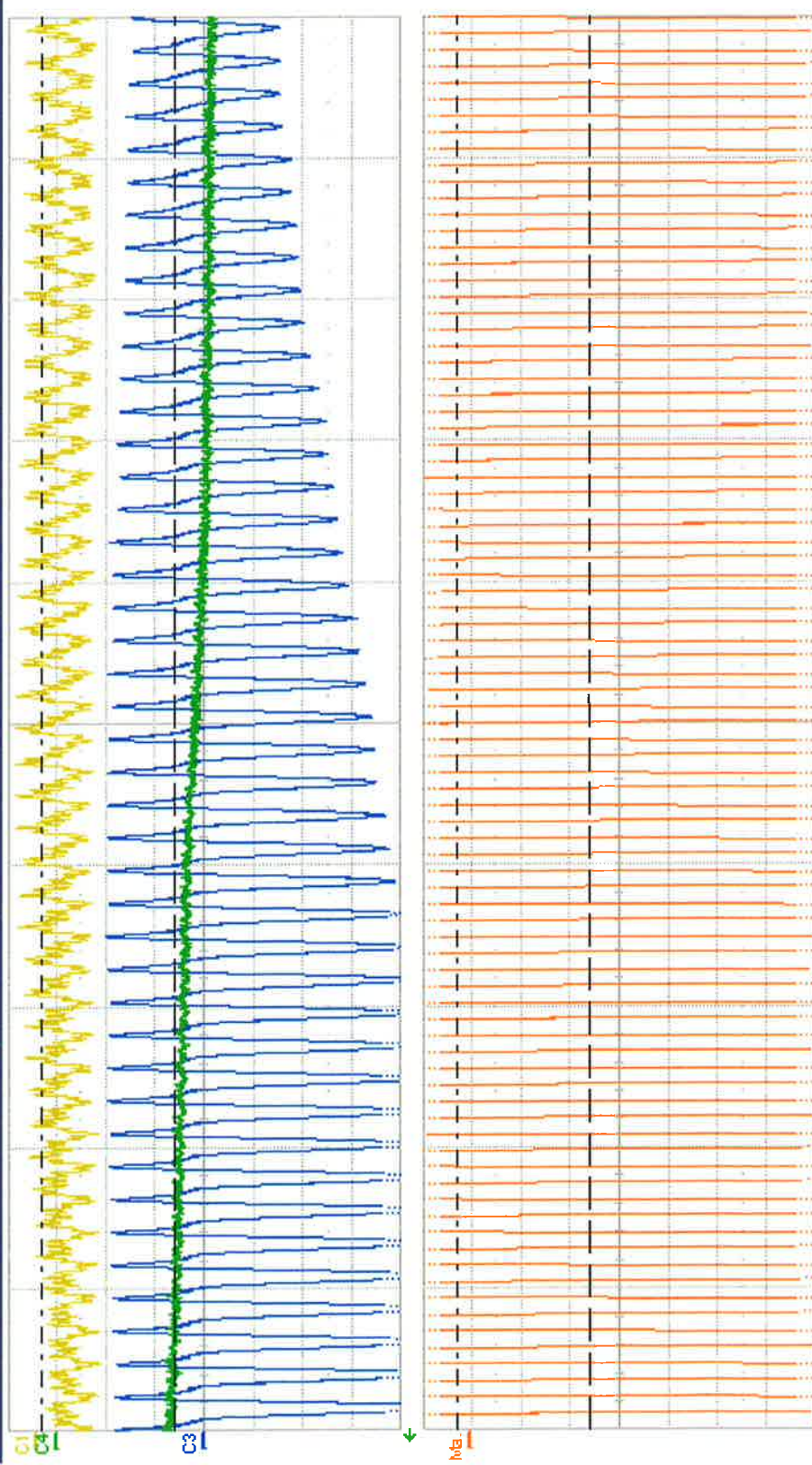
Timebase -4.00 ms
1.00 MS 100 MS/s
Trigger Normal Edge Negative

C1 DCIM 200 mV/div 680.0 mV offset
-18 mV -560 mV -542 mV
ΔV

C3 DCIM 5.00 A/div 0.00 A offset
16.55 A 3.00 A -13.55 A
ΔV

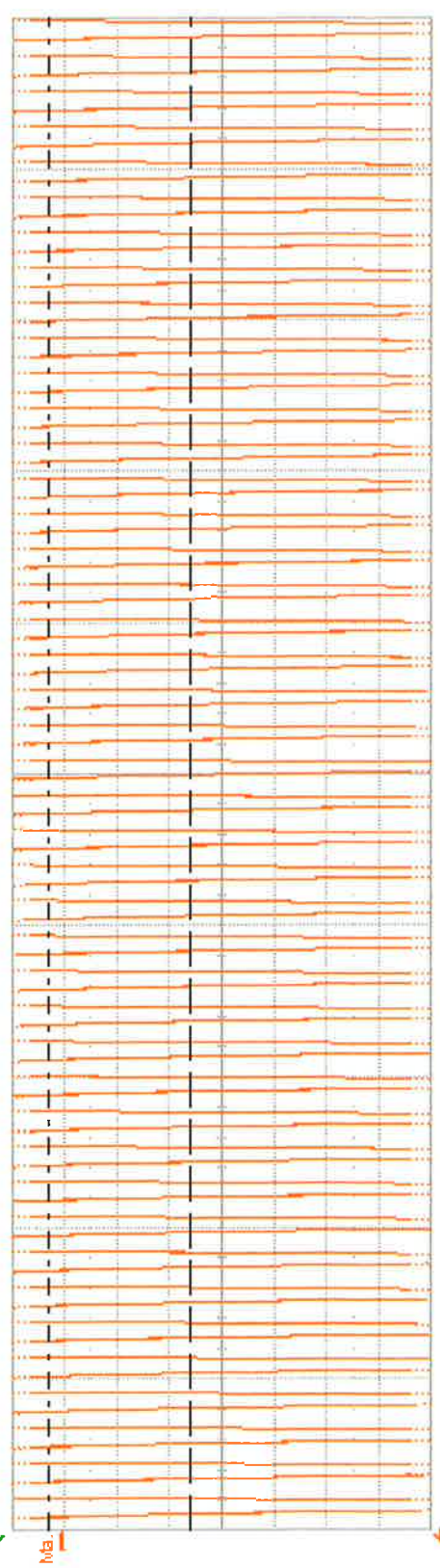
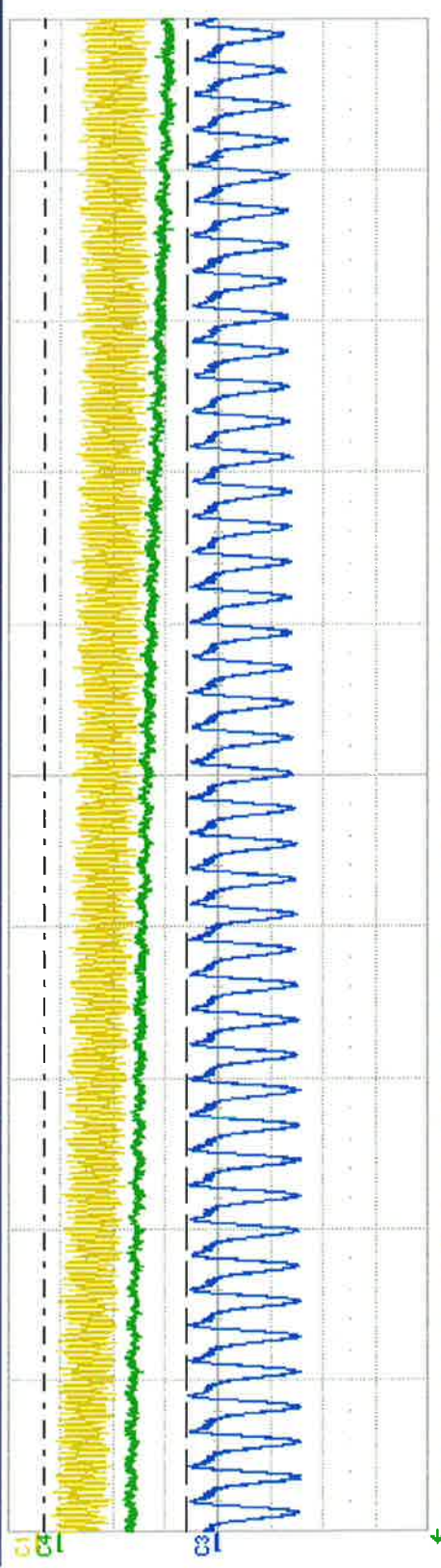
C4 DCIM 100 V/div 300.0 V offset
31 V -240 V -271 V
ΔV

Math <C3>
500 mV/div 1.00 ms/div
3.069 Hz 1.33 mA 1.223 A -1.355 A
ΔV



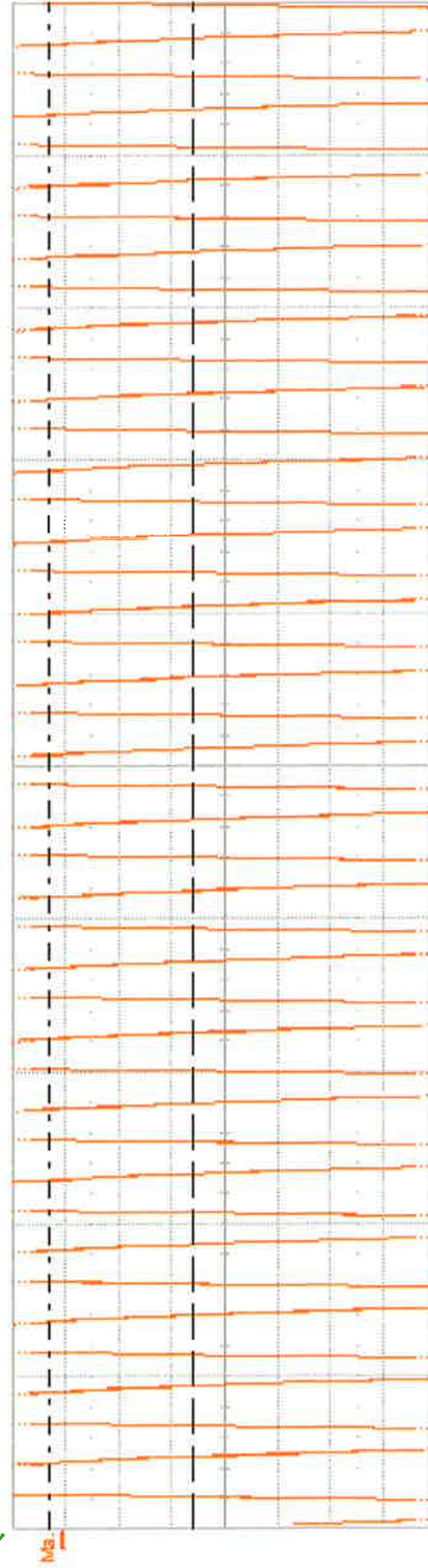
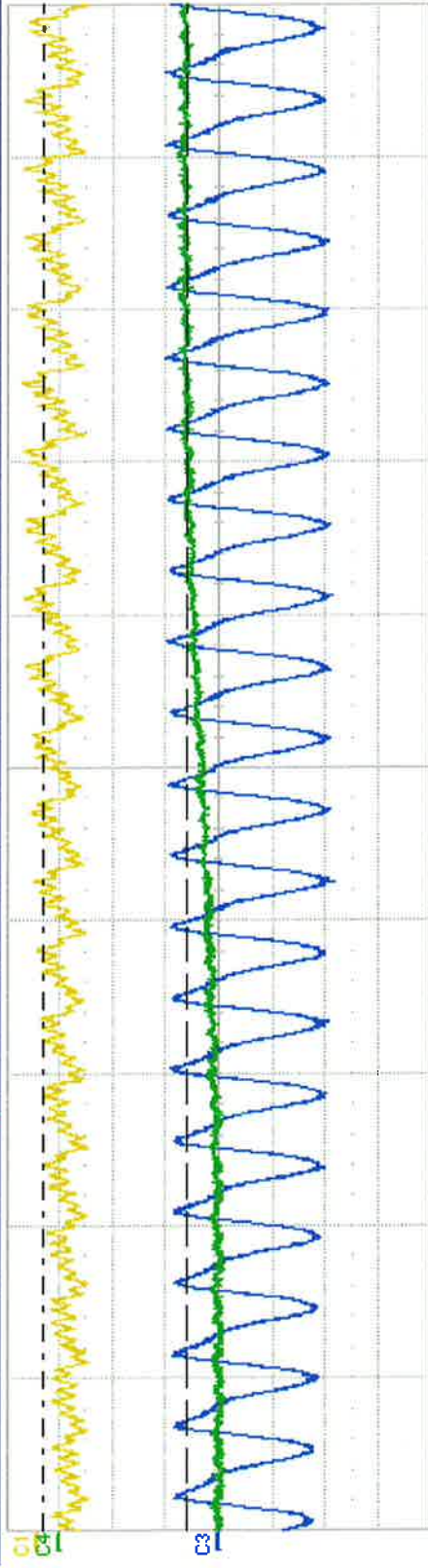
Tbase	-4.00000 ms	Trigger	Edge	Ex710	DC
10.0 kS	1.00 μ S/div	Normal	Edge	700 mV	Negative
	1.0 GS/s				

C1	DC1M	200 mV/div	680.0 mV ofst	-18 mV	-560 mV	-542 mV	Δy
C3	DC1M	2.00 A/div	0 mA offset	6.62 A	1.20 A	-5.42 A	Δy
C4	DC1M	100 V/div	300.0 V offset	31 V	-240 V	-271 V	Δy
Math	<C3>	200 mA/div	1.00 μ S/div	4 #	53 mA	-489 mA	-542 mA



Tbase	-3.66600 ms	Trigger	Edge	Exz10	DC
10.0 kS	1.00 μ S/div	Normal	Edge	700 mV	Negative

C1	DCIM	C4	DCIM	Math	<C3>
200 mV/div	500 A/div	100 V/div	500 mA/div		
680.0 mV ofst	0.00 A offset	300.0 V offset	1.00 μ S/div		
---	---	---	---	---	---
-18 mV	16.55 A	31 V	133 mA		
-560 mV	3.00 A	-240 V	-1.223 A		
Δ y	Δ y	Δ y	Δ y		
-542 mV	-13.55 A	-271 V	-1.355 A		



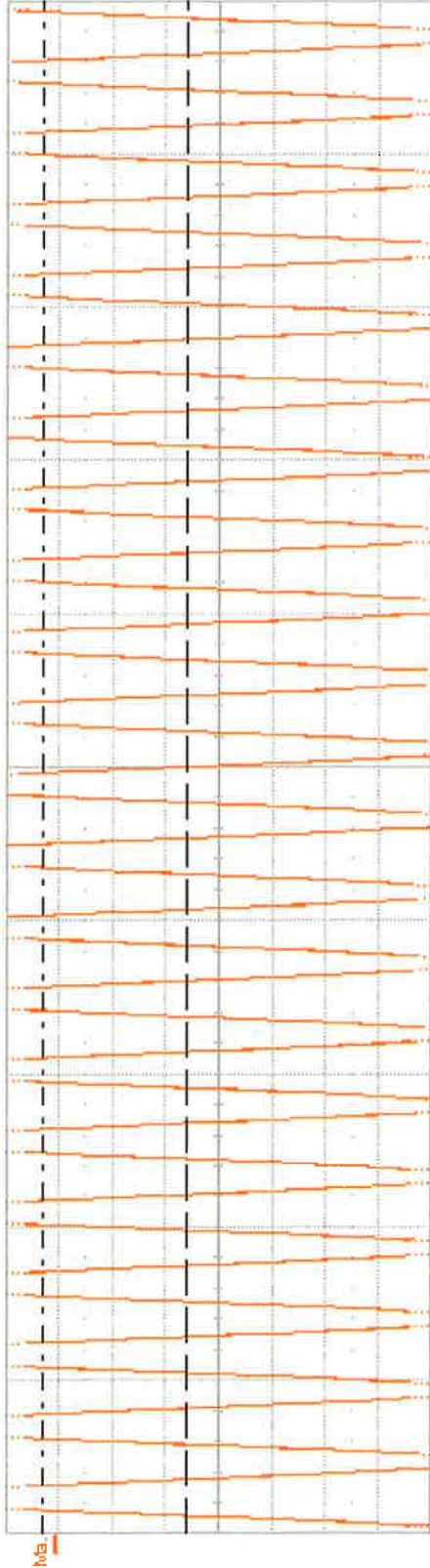
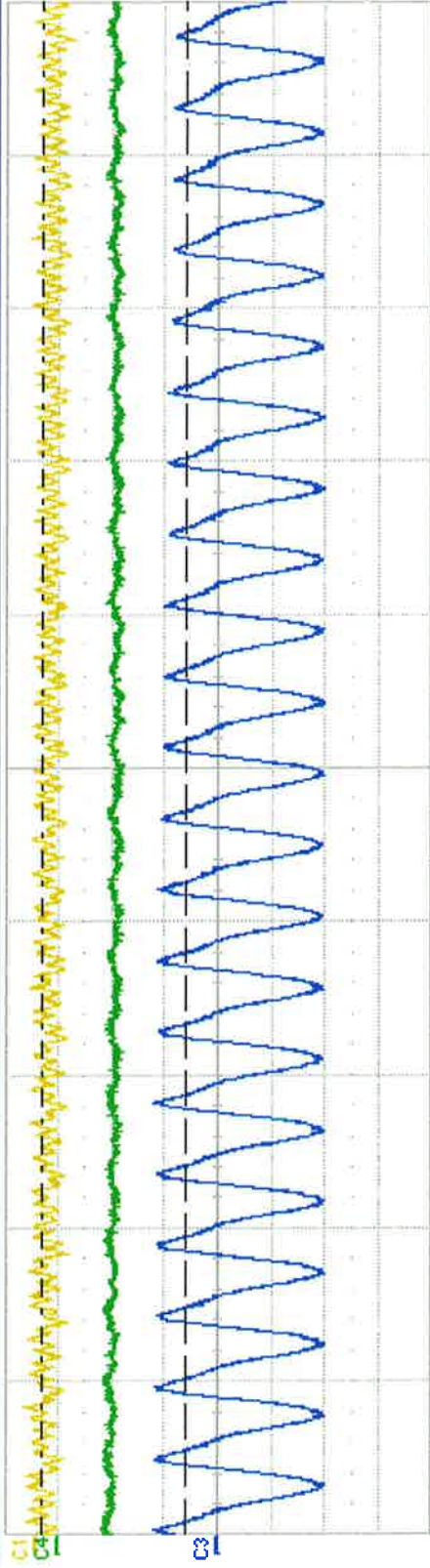
Tbase 2.00080 ms
500 ns/div
5.00 kS
Trigger Normal
Edge
Negative

C1 DCIM 200 mV/div
680.0 mV ofst
-18 mV
-560 mV
-542 mV
Δy

C3 DC 5.00 A/div
0.00 A ofst
16.55 A
3.00 A
-13.55 A
Δy

C4 DCID 100 V/div
300.0 V ofst
31 V
-240 V
-271 V
Δy

Math <C3>
500 mA/div
500 ns/div
4 #
133 mA
-1.223 A
-1.355 A
Δy



Tbase -2.00080 ms
5.00 kS
Trigger Stop
Edge Negative

Channel	Scale	Offset	Math	Unit
C1	200 mV/div	680.0 mV offset	-18 mV	ΔY
C2	5.00 A/div	0.00 A offset	18.55 A	ΔY
C3	100 V/div	300.0 V offset	31 V	ΔY
C4	500 ns/div	500 ns/div	15 #	ΔY
C5	500 ns/div	500 ns/div	133 mA	ΔY
C6	500 ns/div	500 ns/div	-1.223 A	ΔY
C7	500 ns/div	500 ns/div	-1.355 A	ΔY