

1-Aug-23
14:50:58

1
.5 ms
0.50 V

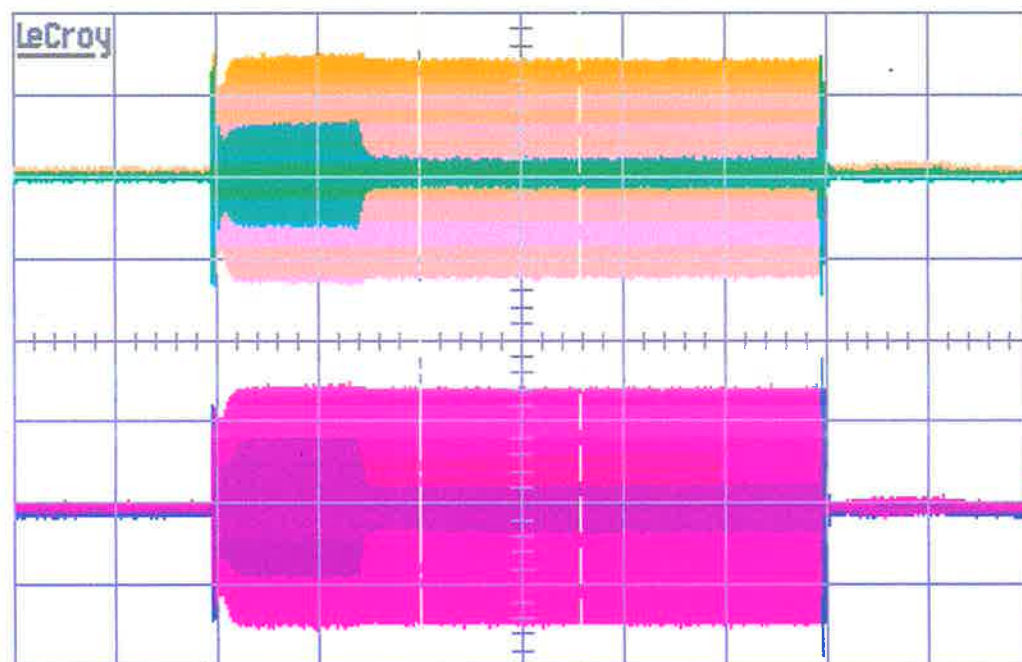
2
.5 ms
200mV

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



68 sweeps:

	average	low	high	sigma
rms(1)	464.9mV	464.1	466.7	0.4
rms(2)	18.0mV	17.3	32.4	1.9
rms(3)	492.9mV	491.9	493.4	0.3
rms(4)	41.5mV	40.1	52.2	1.4
phase(1,3)	76.7 °	72.1	85.2	1.6



Ext DC 440mV 1MΩ

CHANNEL 4

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒
variable

Offsets in
Volts ☒
Divisions

Grids
Single ☒ Dual
Quad Octal

20 MS/s

☐ NORMAL

1-Aug-23
14:53:29

1
.5 ms
0.50 V

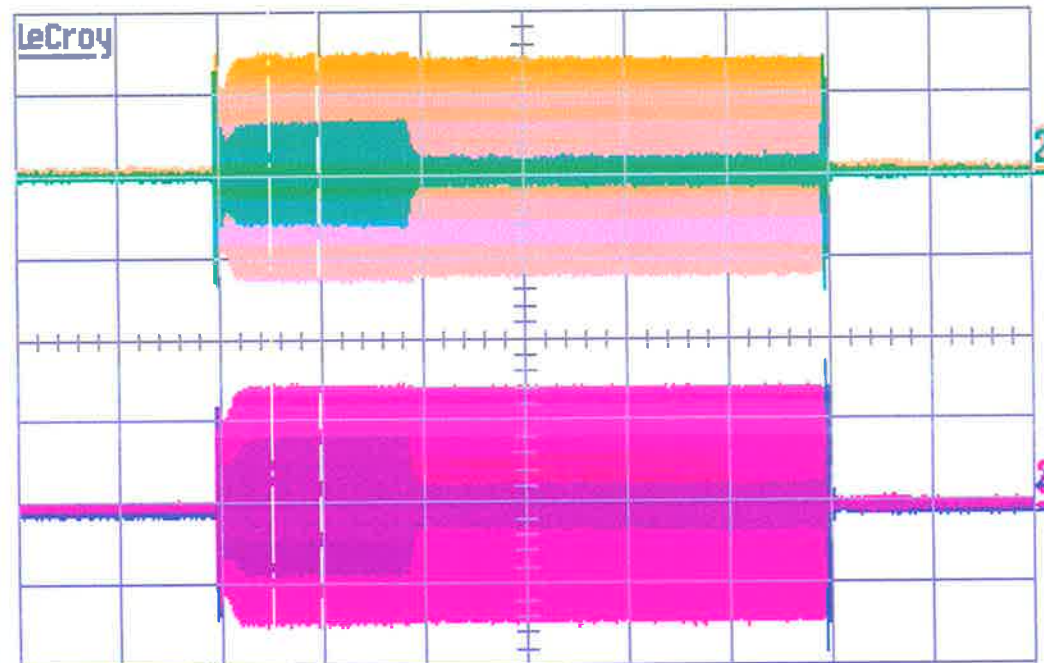
2
.5 ms
200mV

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



18 sweeps:

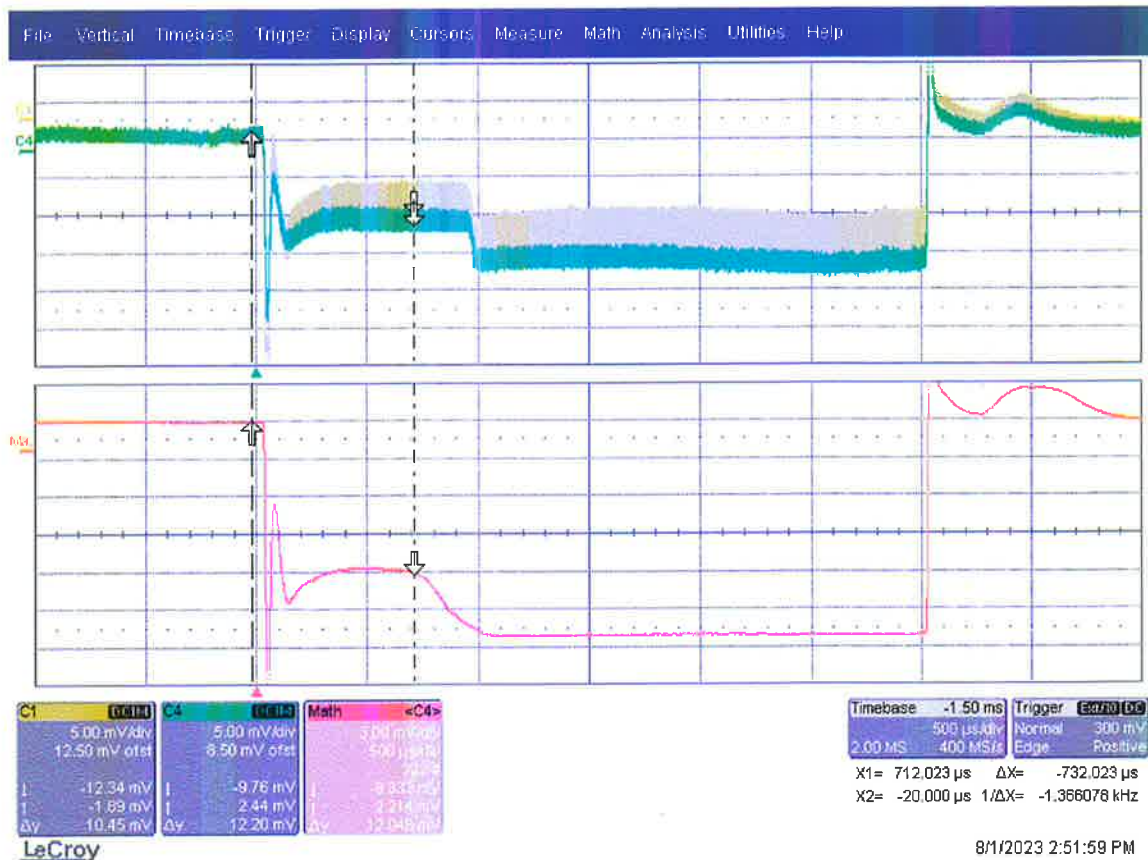
	average	low	high	sigma
rms(1)	477.6mV	477.0	478.1	0.3
rms(2)	83.4mV	83.2	83.5	0.1
rms(3)	501.0mV	500.3	501.3	0.3
rms(4)	111.6mV	111.4	111.8	0.1
phase(1,3)	83.3 °	78.9	87.7	1.3



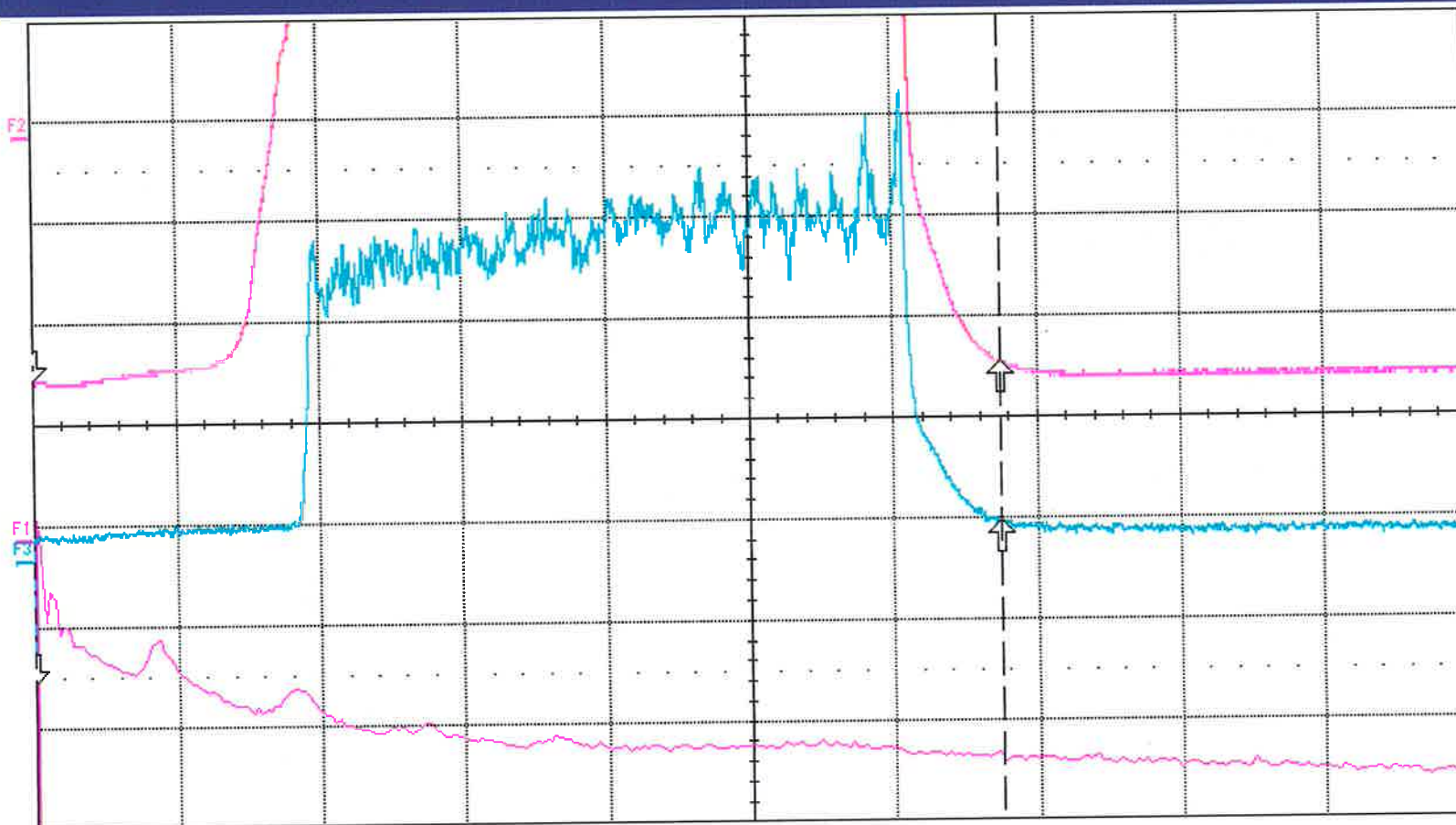
Ext DC 440mV 1MΩ

20 MS/s

☐ NORMAL



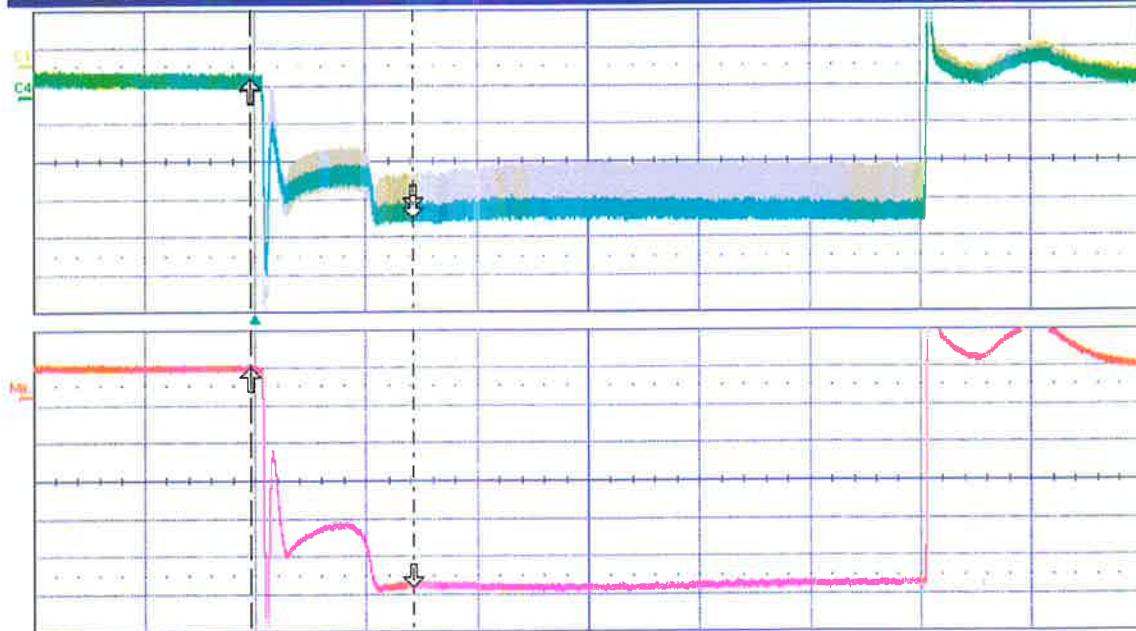
8/1/2023 2:51:59 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
120 #	120 #				
↓	---	↓	---	↓	---
↑	---	↑	-1.147488	↑	317.7e-3
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

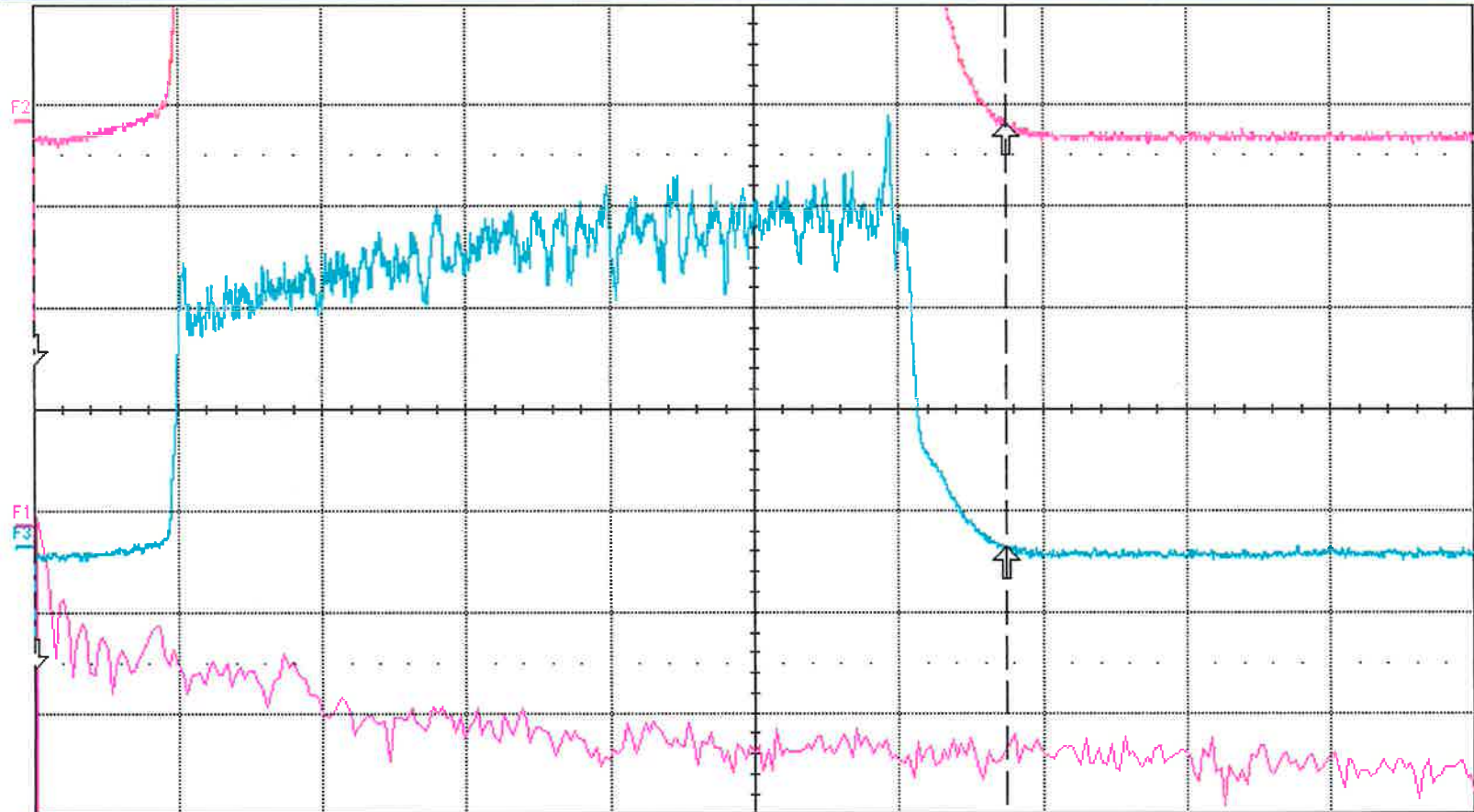


C1	C4	Math
5.00 mV/div	5.00 mV/div	3.00 mV/div
12.50 mV ofst	6.50 mV ofst	-500 μs/div
		1.00
-16.41 mV	-15.74 mV	-15.015 mV
-1.75 mV	2.13 mV	2.195 mV
Δv 14.66 mV	Δv 17.88 mV	Δv -17.200 mV

Timebase	-1.50 ms	Trigger	EXT01
	500 μs/div	Normal	300 mV
2.00 MS	400 MS/s	Edge	Positive
X1=	712.023 μs	ΔX=	-732.023 μs
X2=	-20.000 μs	1/ΔX=	-1.366078 kHz

LeCroy

8/1/2023 2:57:11 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
5 #	5 #				
↓	---	↓	---	↓	---
↑	---	↑	---	↑	---
Δy	---	Δy	---	Δy	---

Thase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
14:58:51

1
.1 ms
0.50 V

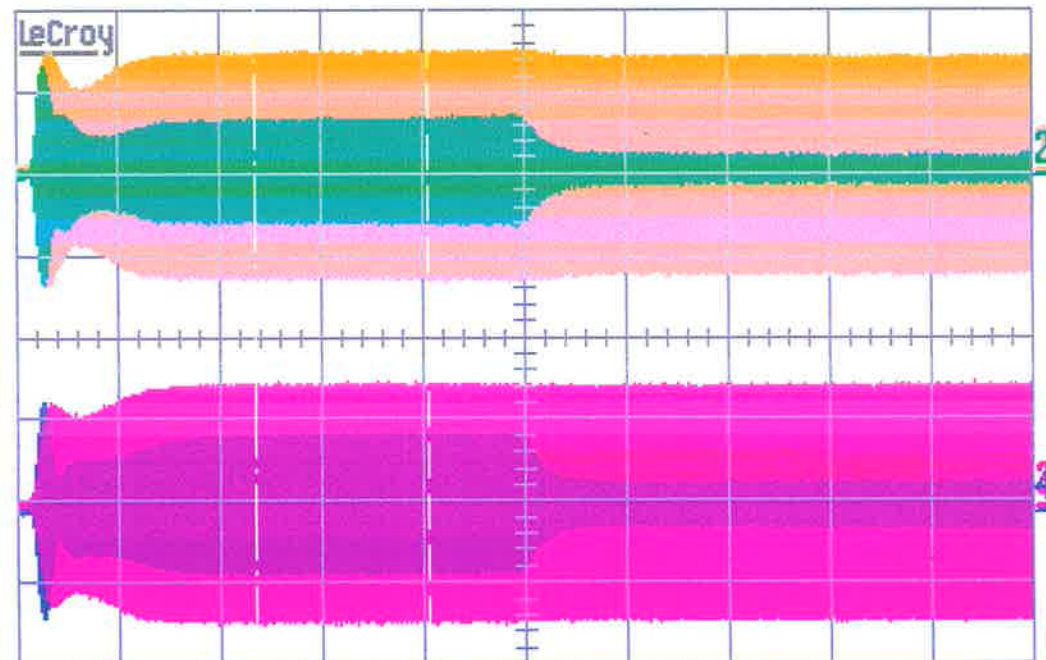
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

	103 sweeps:	average	low	high	sigma
rms(1)		479.6mV	478.2	481.4	0.7
rms(2)		85.0mV	84.6	85.4	0.2
rms(3)		500.1mV	498.9	501.5	0.6
rms(4)		111.8mV	111.2	112.3	0.2
phase(1,3)		83.2 °	79.3	87.2	1.1



Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL

1-Aug-23
15:01:42

1
.1 ms
0.50 V

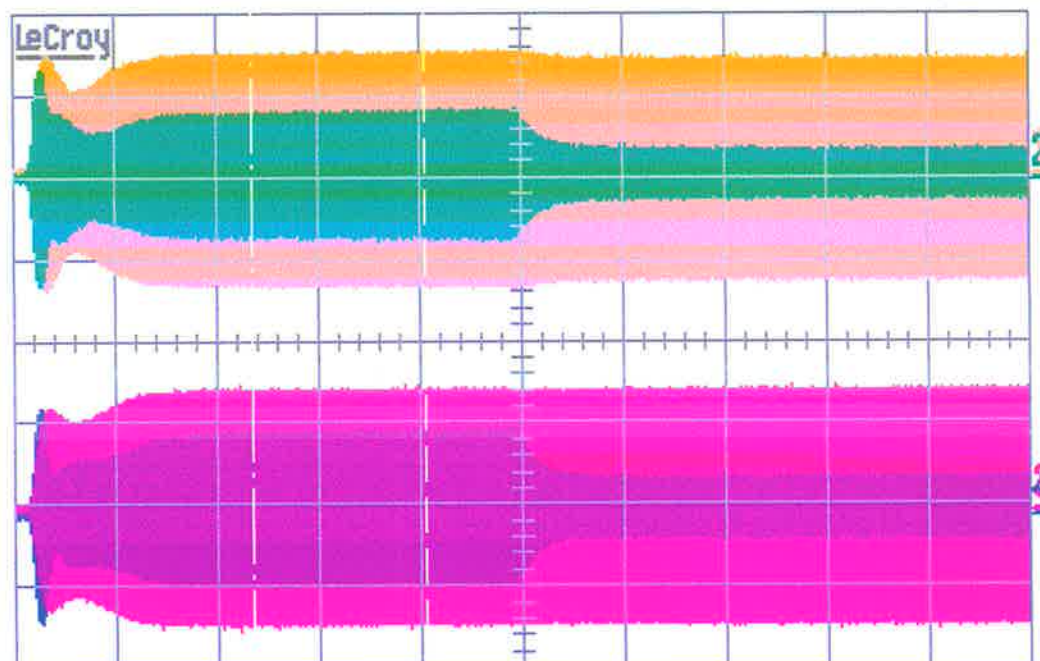
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

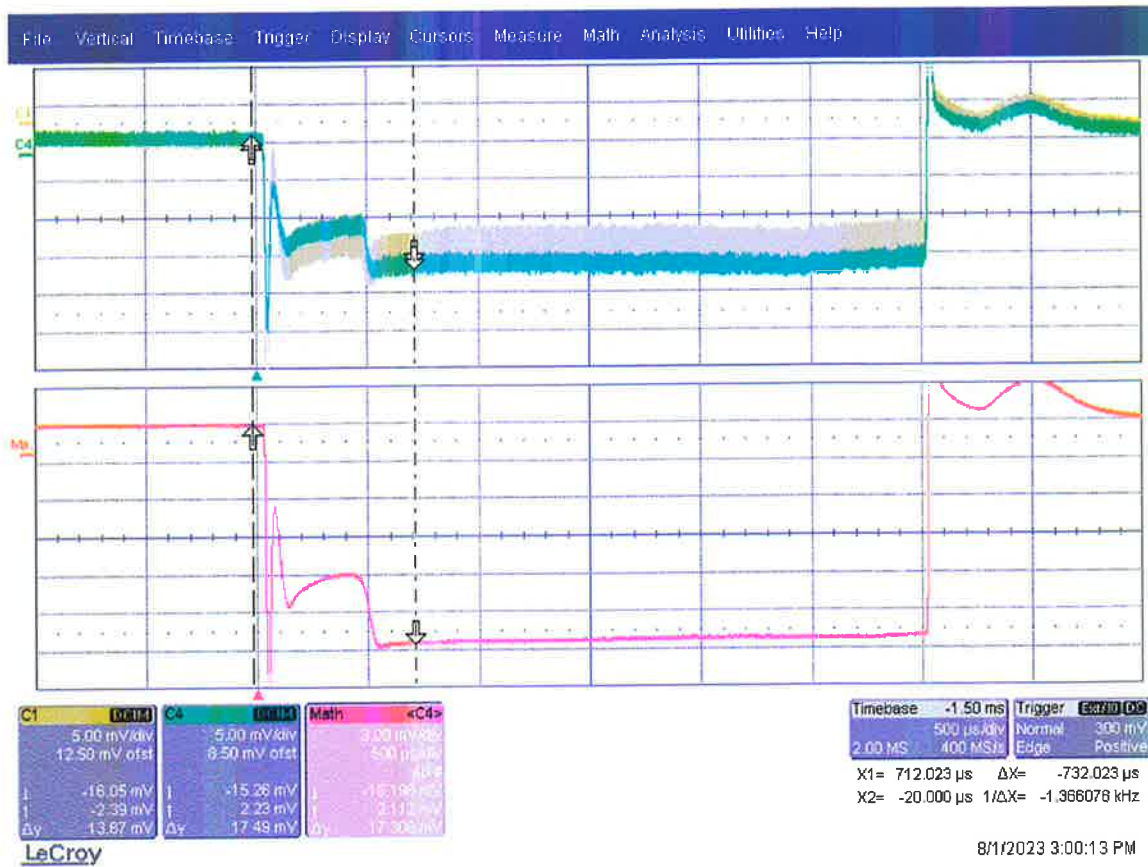
	43 sweeps:	average	low	high	sigma
rms(1)		493.9mV	493.5	494.9	0.3
rms(2)		102.5mV	102.3	102.8	0.1
rms(3)		497.0mV	496.6	498.0	0.3
rms(4)		126.2mV	126.0	126.5	0.1
phase(1,3)		83.9 °	80.0	87.6	1.1



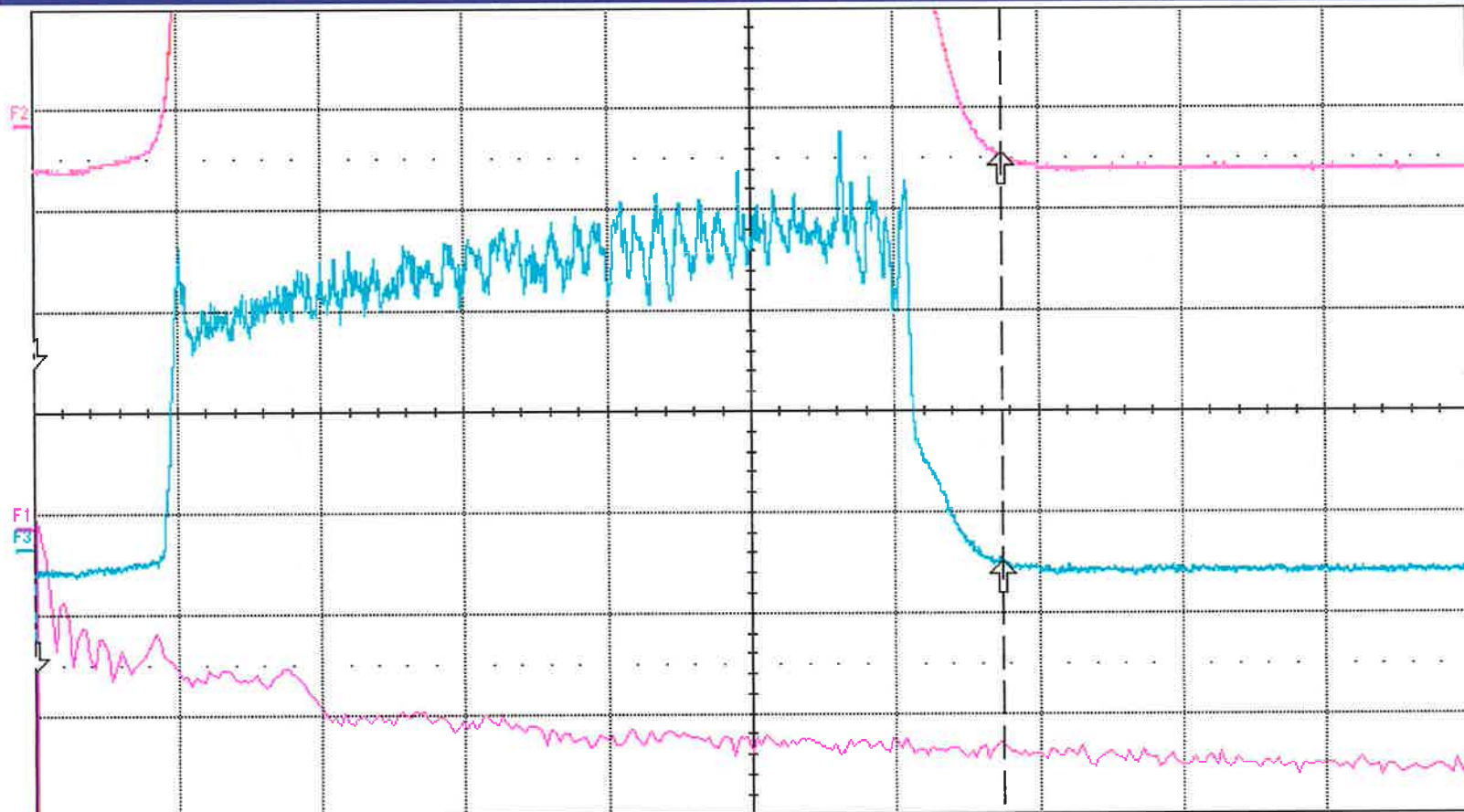
Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL



8/1/2023 3:00:13 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div		500e-3/div		1.00/div	
10.0 kHz/div		500 μs/div		500 μs/div	
28 #		28 #			
↓	---	↓	---	↓	---
↑	---	↑	-151.848e-3	↑	-155.7e-3
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:02:46

1
.1 ms
0.50 V

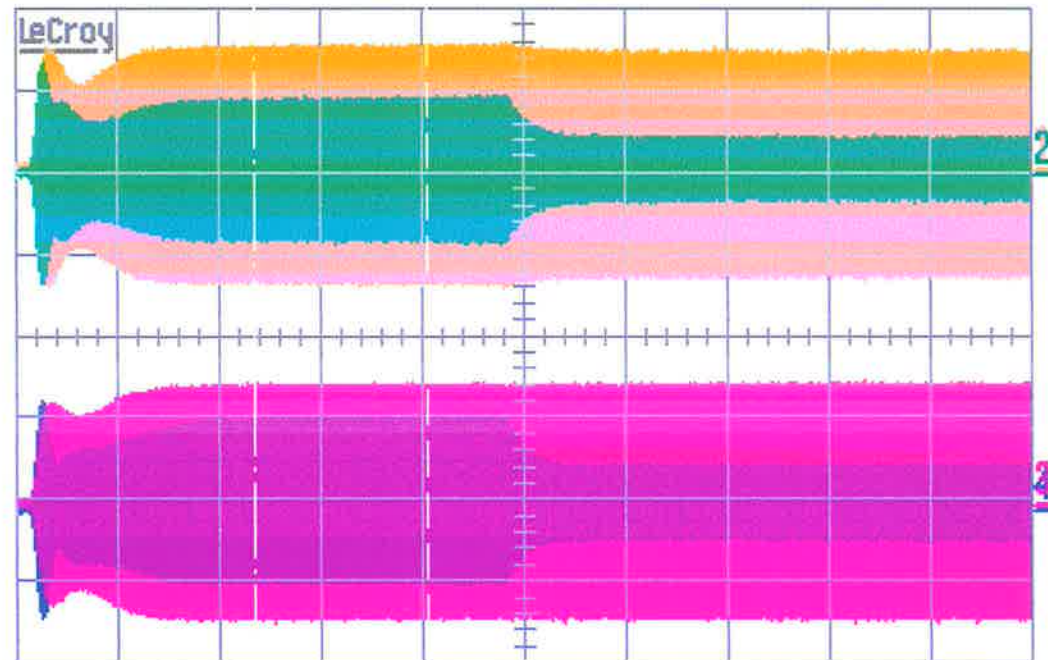
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

34 sweeps:

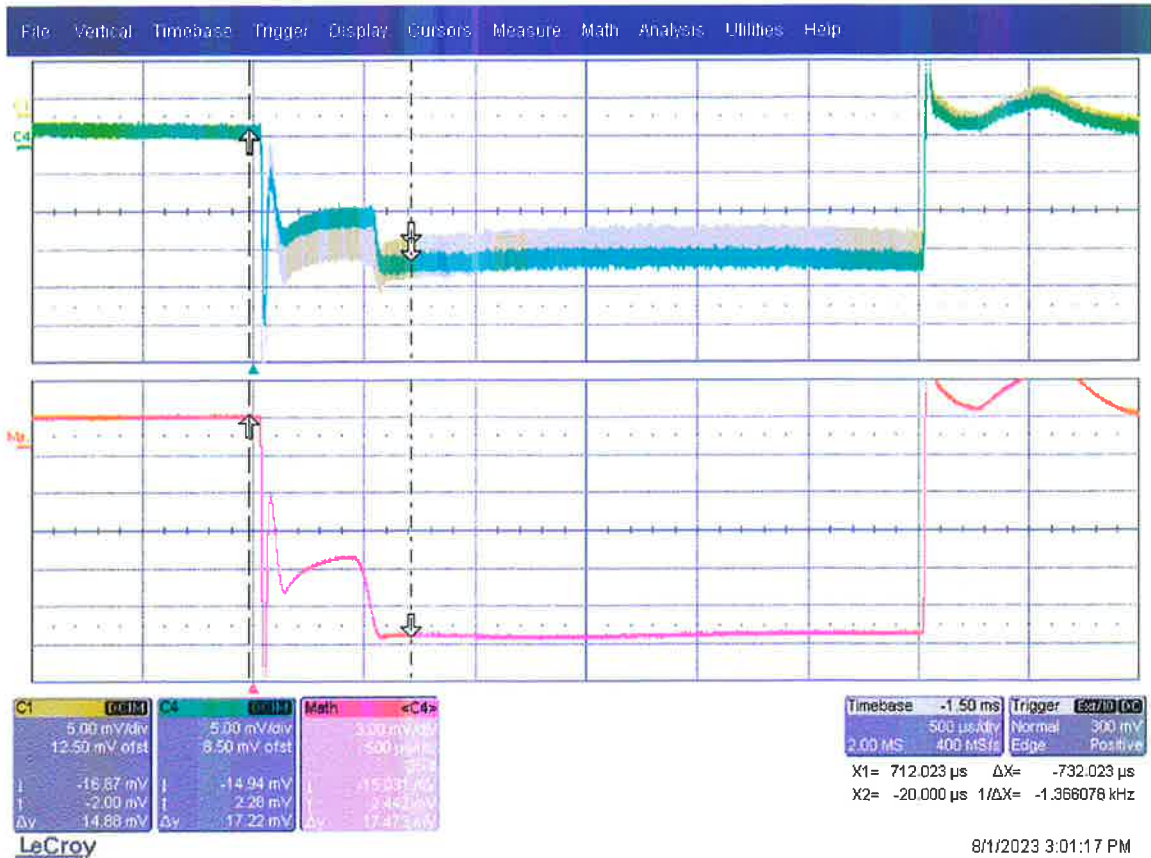
	average	low	high	sigma
rms(1)	503.6mV	502.3	504.9	0.6
rms(2)	115.5mV	114.9	116.0	0.2
rms(3)	493.5mV	492.6	494.5	0.5
rms(4)	136.6mV	136.2	137.1	0.2
phase(1,3)	84.0 °	80.4	87.5	1.1



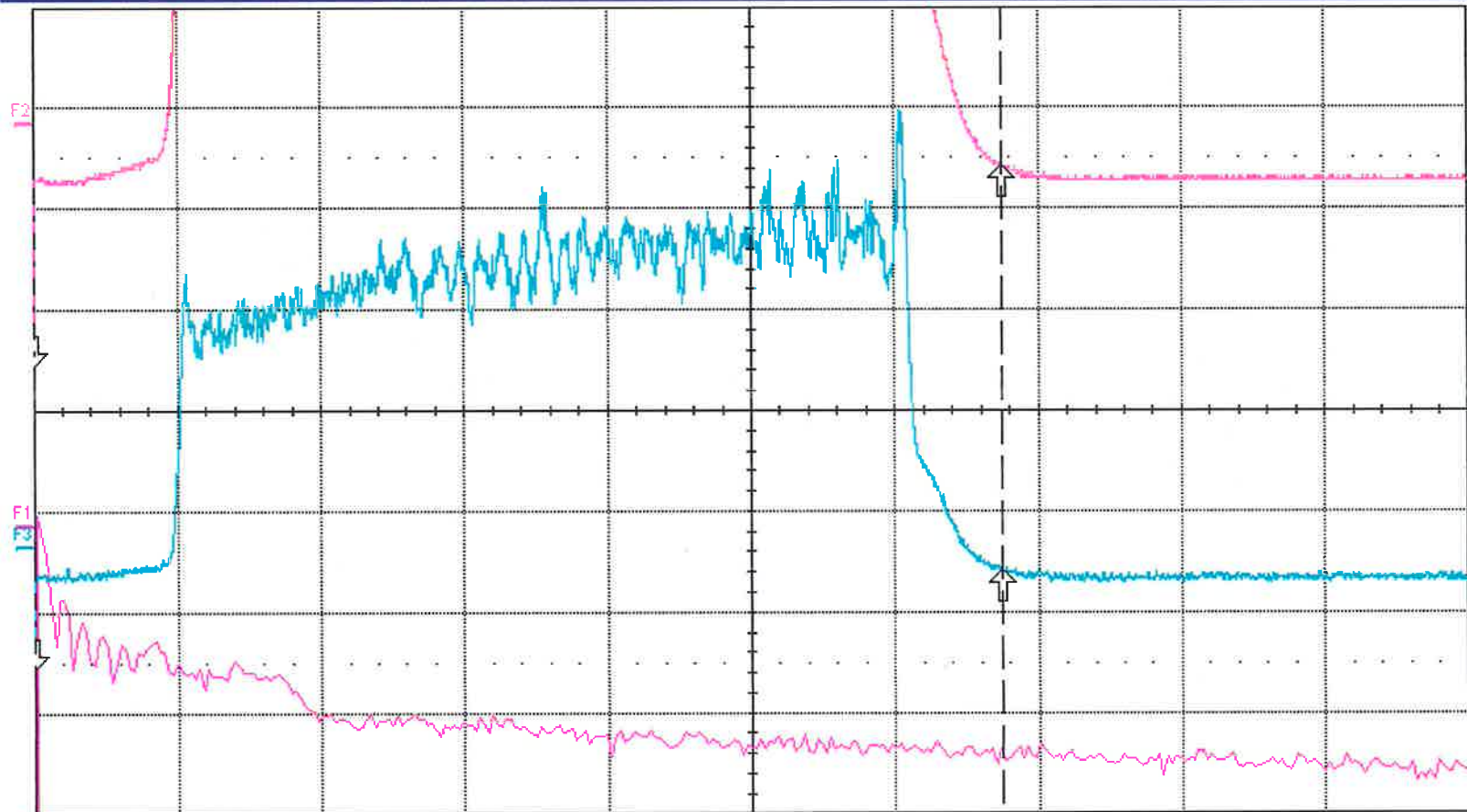
Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL



8/1/2023 3:01:17 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
18 #	18 #				
↓	---	↓	---	↓	---
↑	---	↑	---	↑	---
Δy	---	Δy	---	Δy	---

Thase	-2.50 ms	Trigger	Ext 10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:05:25

1
.1 ms
0.50 V

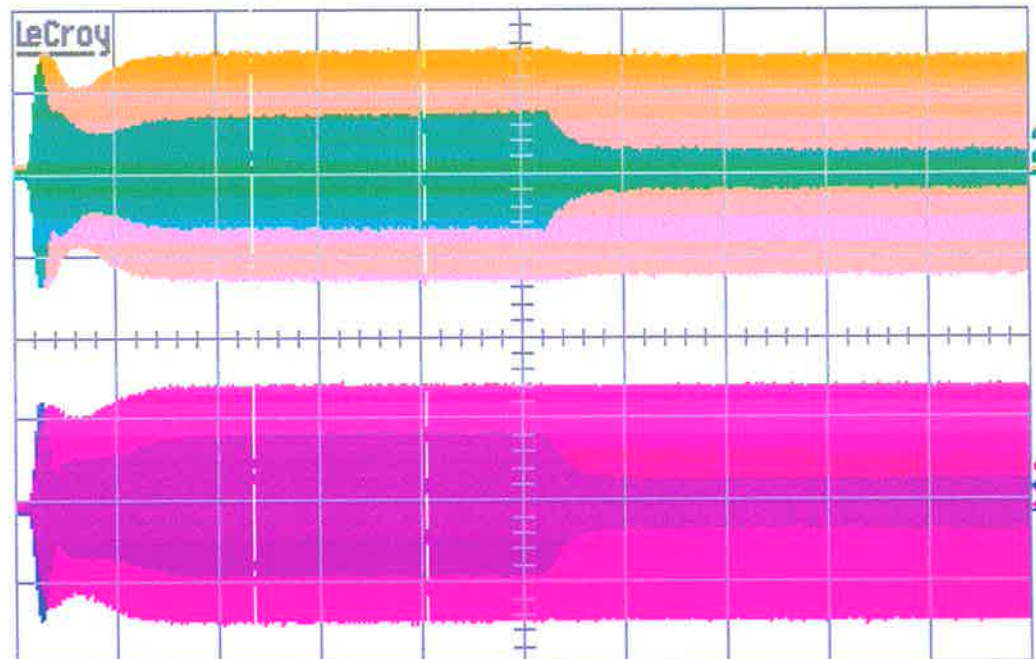
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

	36 sweeps:	average	low	high	sigma
rms(1)		484.6mV	483.2	486.3	0.7
rms(2)		91.1mV	90.9	91.4	0.1
rms(3)		498.5mV	497.2	499.9	0.6
rms(4)		116.1mV	115.6	116.6	0.2
phase(1,3)		83.3 °	79.5	87.4	1.1

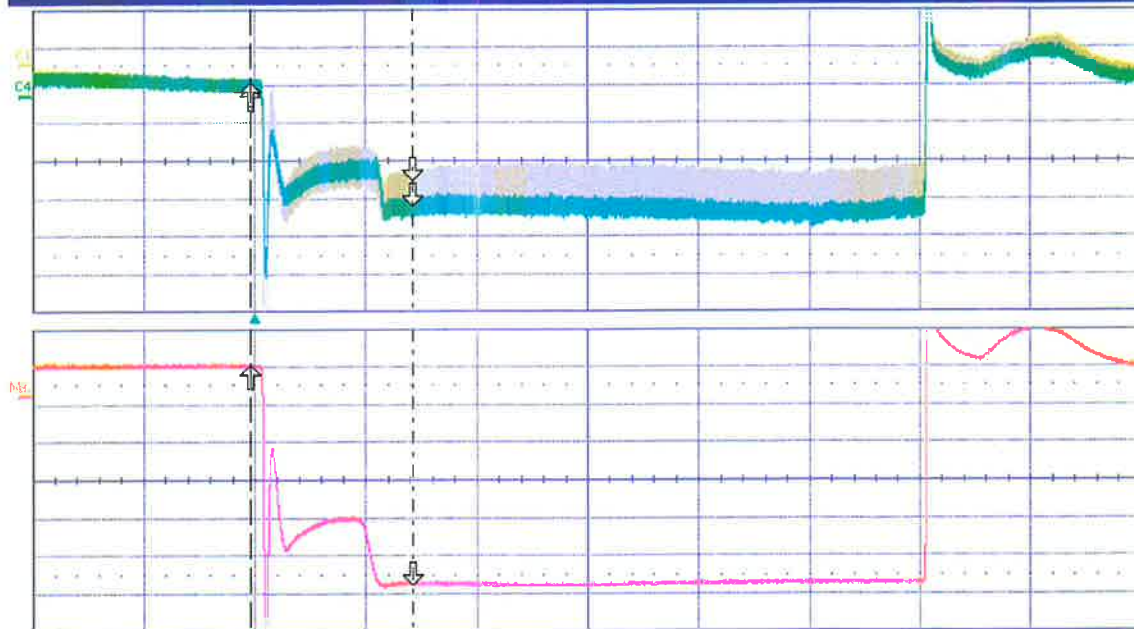


Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



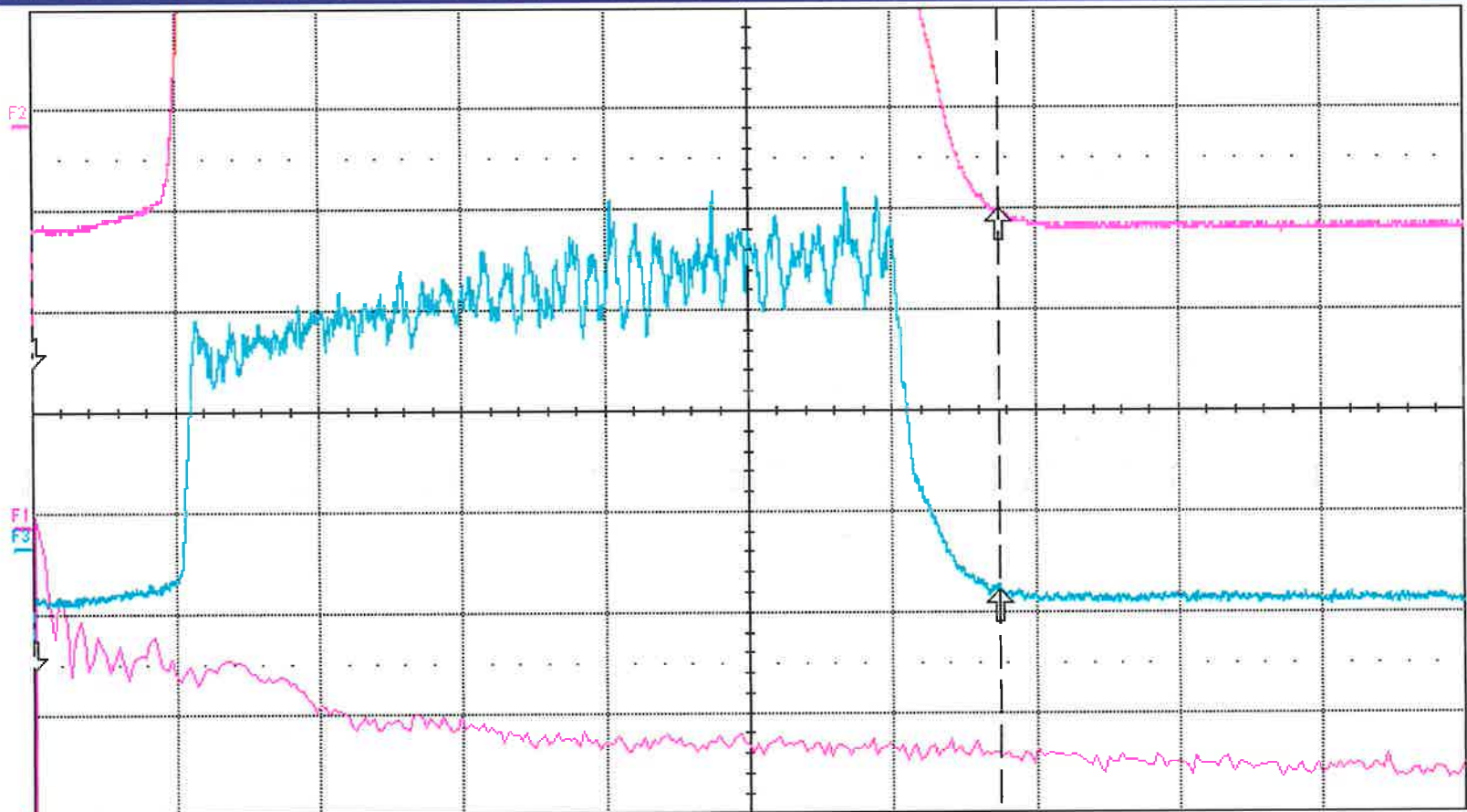
C1	C4	Math
5.00 mV/div	5.00 mV/div	5.00 mV/div
12.50 mV/div	8.50 mV/div	500 μ s/div
		07.4
I -14.95 mV	I -14.34 mV	I -14.910 mV
I -3.02 mV	I 1.59 mV	I 2.332 mV
Δ y 11.94 mV	Δ y 15.94 mV	Δ y 17.543 mV

Timebase	-1.50 ms	Trigger	Edge/Hi/OC
	500 μ s/div	Normal	300 mV
2.00 MS	400 MS/s	Edge	Positive

X1= 712.023 μ s Δ X= -732.023 μ s
X2= -20.000 μ s 1/ Δ X= -1.366078 kHz

LeCroy

8/1/2023 3:03:56 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
19 #	19 #				
↓	---	↓	---	↓	---
↑	---	↑	-429.086e-3	↑	-435.3e-3
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:06:40

1
.1 ms
0.50 V

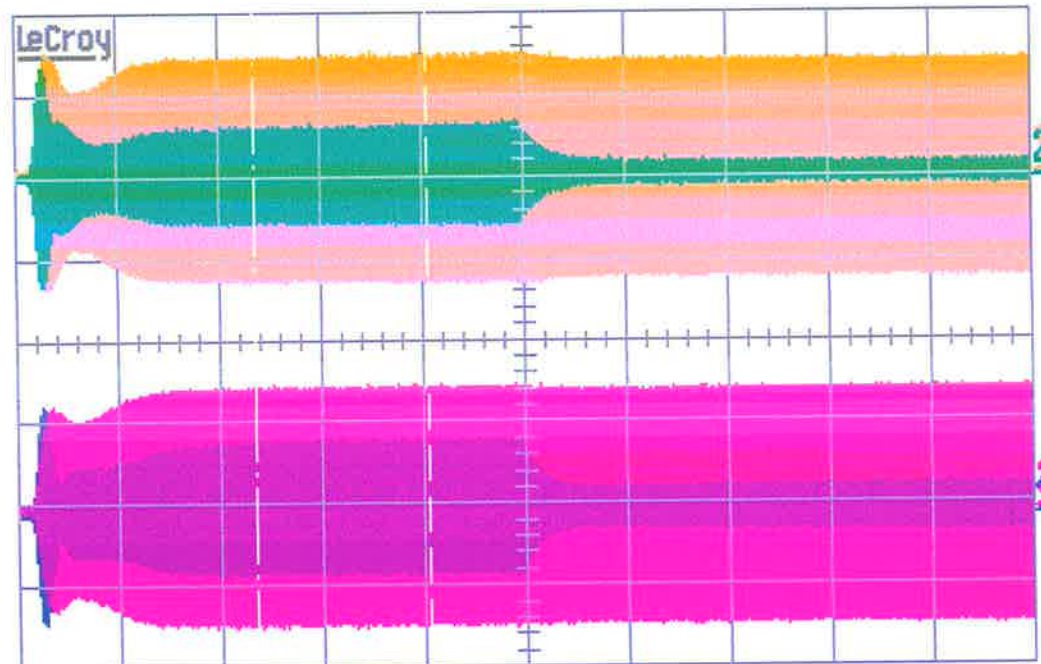
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

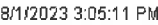
	42 sweeps:	average	low	high	sigma
rms(1)		475.2mV	473.5	477.1	0.8
rms(2)		79.6mV	79.3	79.9	0.2
rms(3)		499.6mV	498.5	501.1	0.7
rms(4)		106.5mV	106.1	107.0	0.2
phase(1,3)		82.8 °	79.2	86.2	1.1

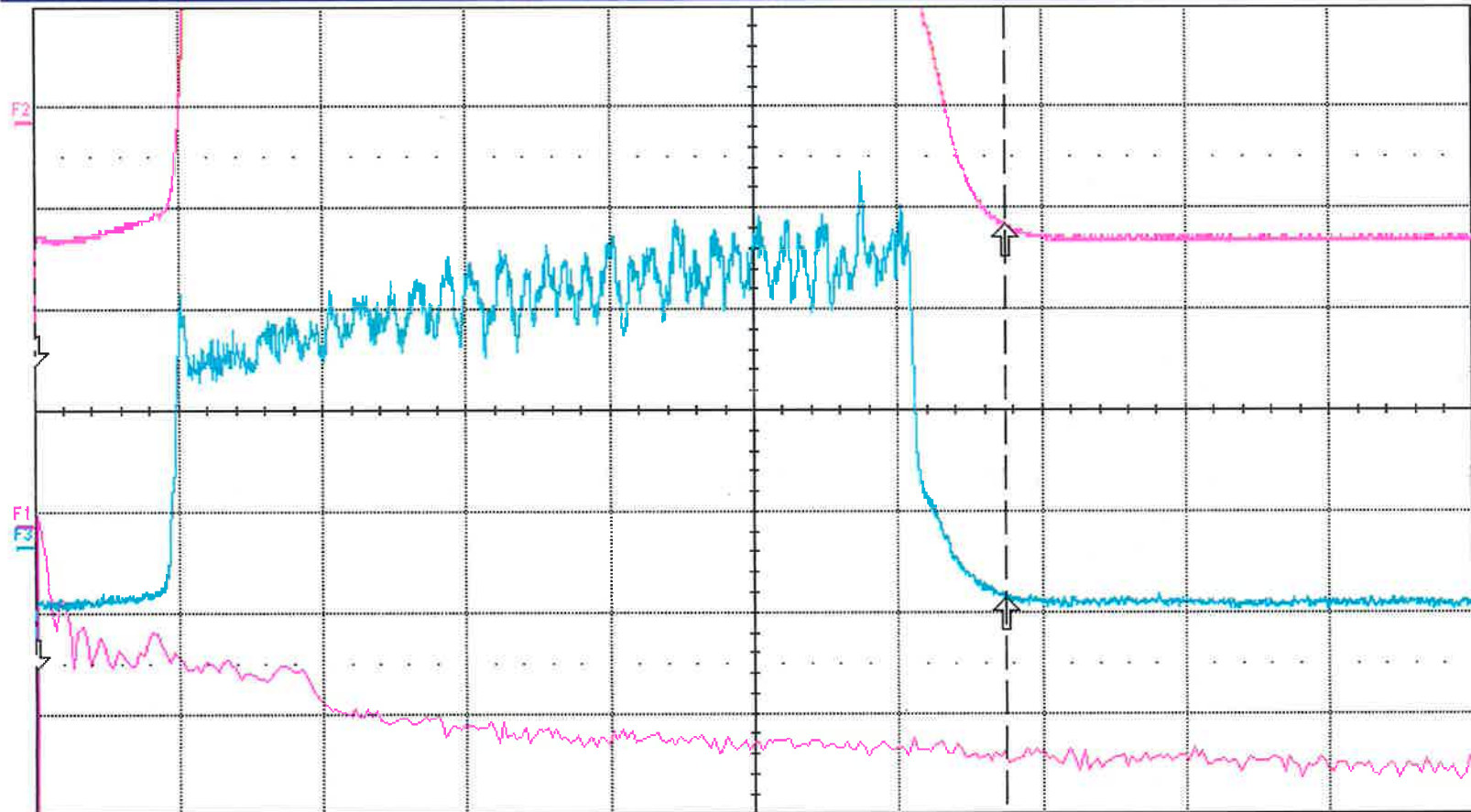


Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL





F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
21 #	21 #				
↓	---	↓	---	↓	---
↑	---	↑	---	↑	---
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:07:50

1
.1 ms
0.50 V

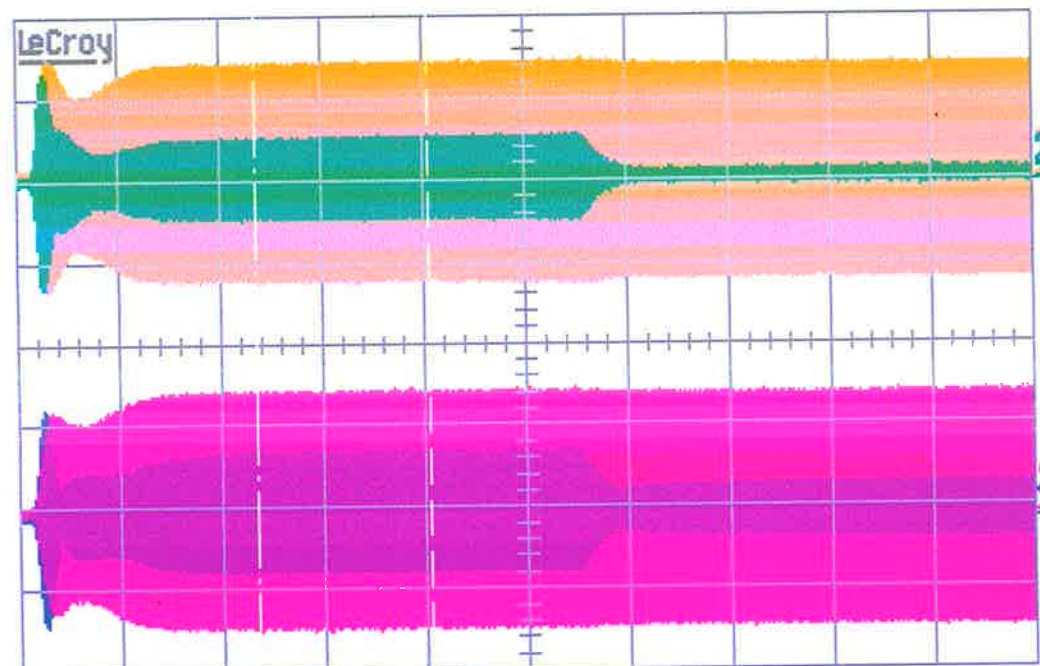
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

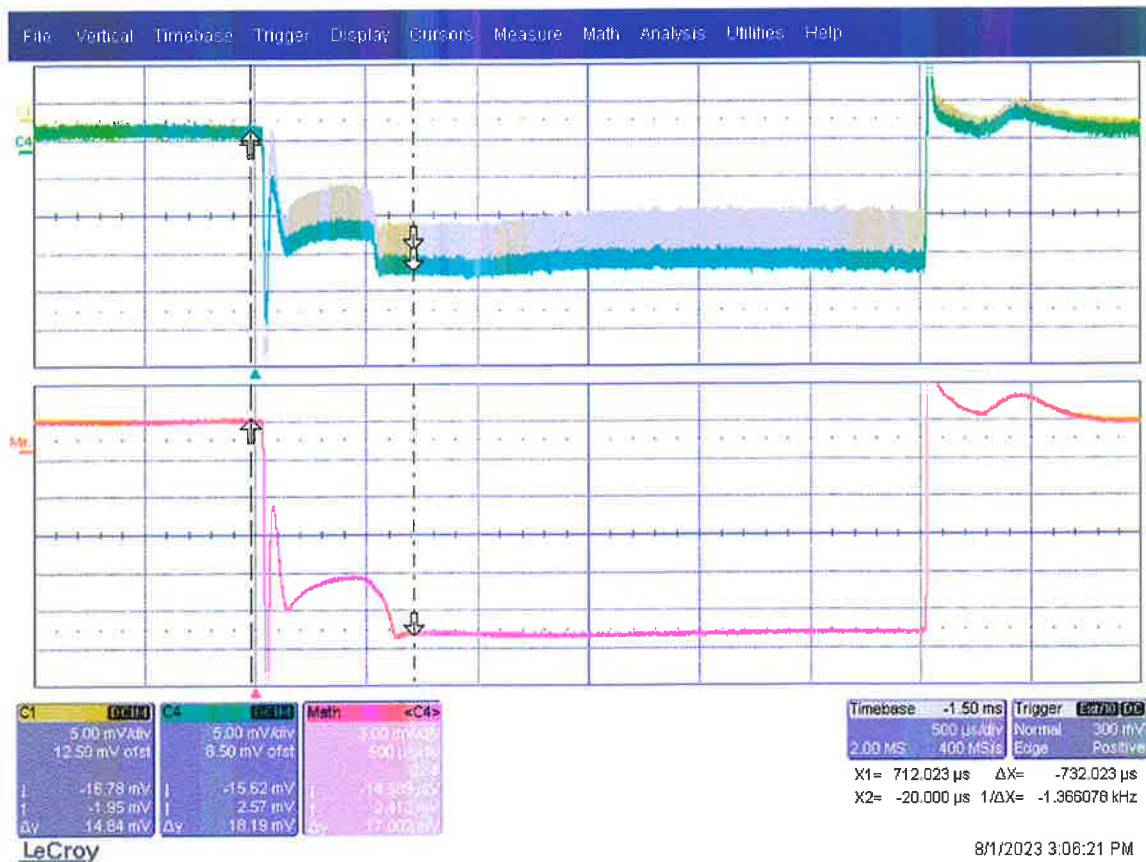
	27 sweeps:	average	low	high	sigma
rms(1)		465.3mV	464.5	466.4	0.5
rms(2)		68.4mV	68.2	68.7	0.1
rms(3)		498.9mV	498.2	500.3	0.5
rms(4)		97.8mV	97.5	98.0	0.2
phase(1,3)		82.1 °	78.3	85.3	1.1



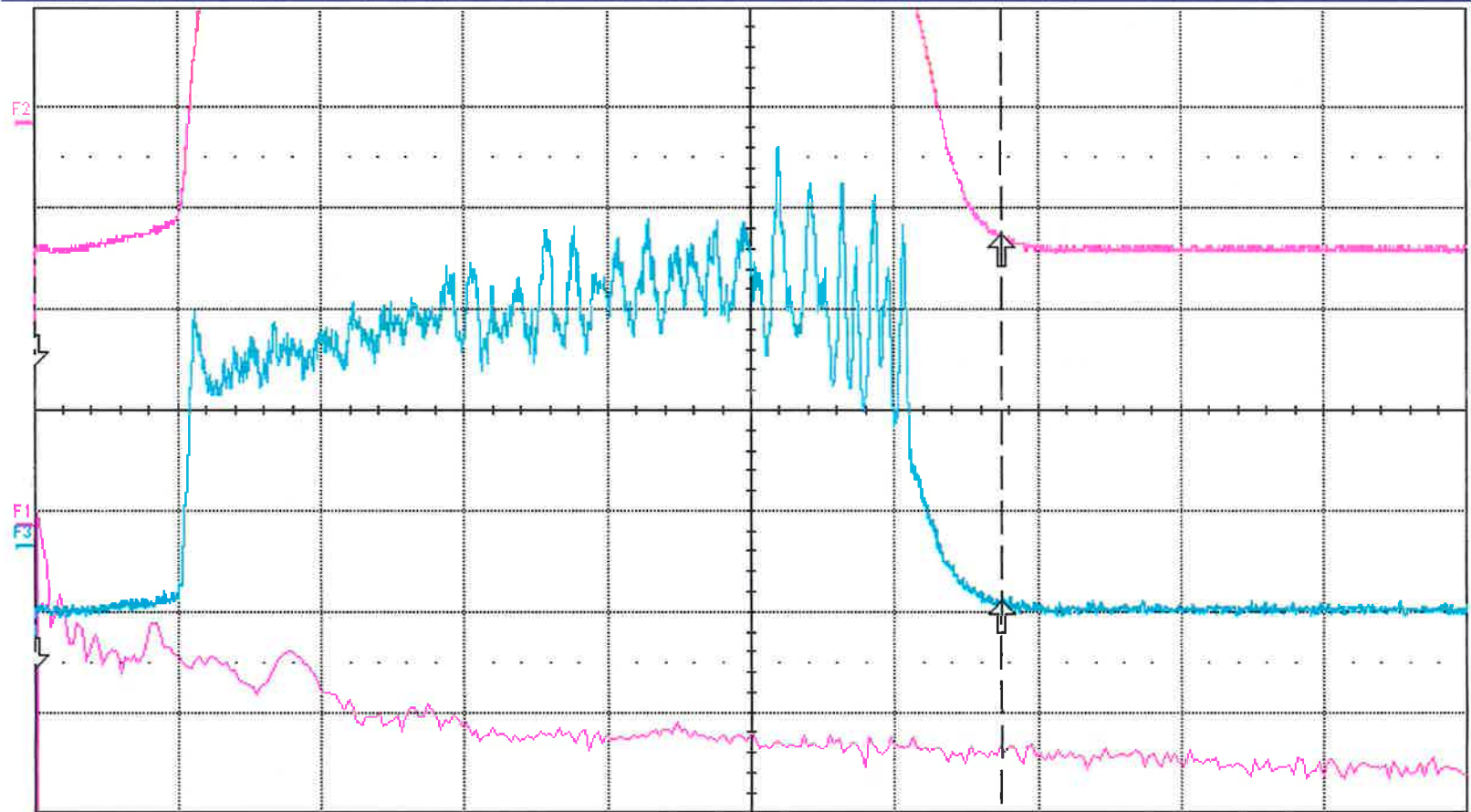
Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL



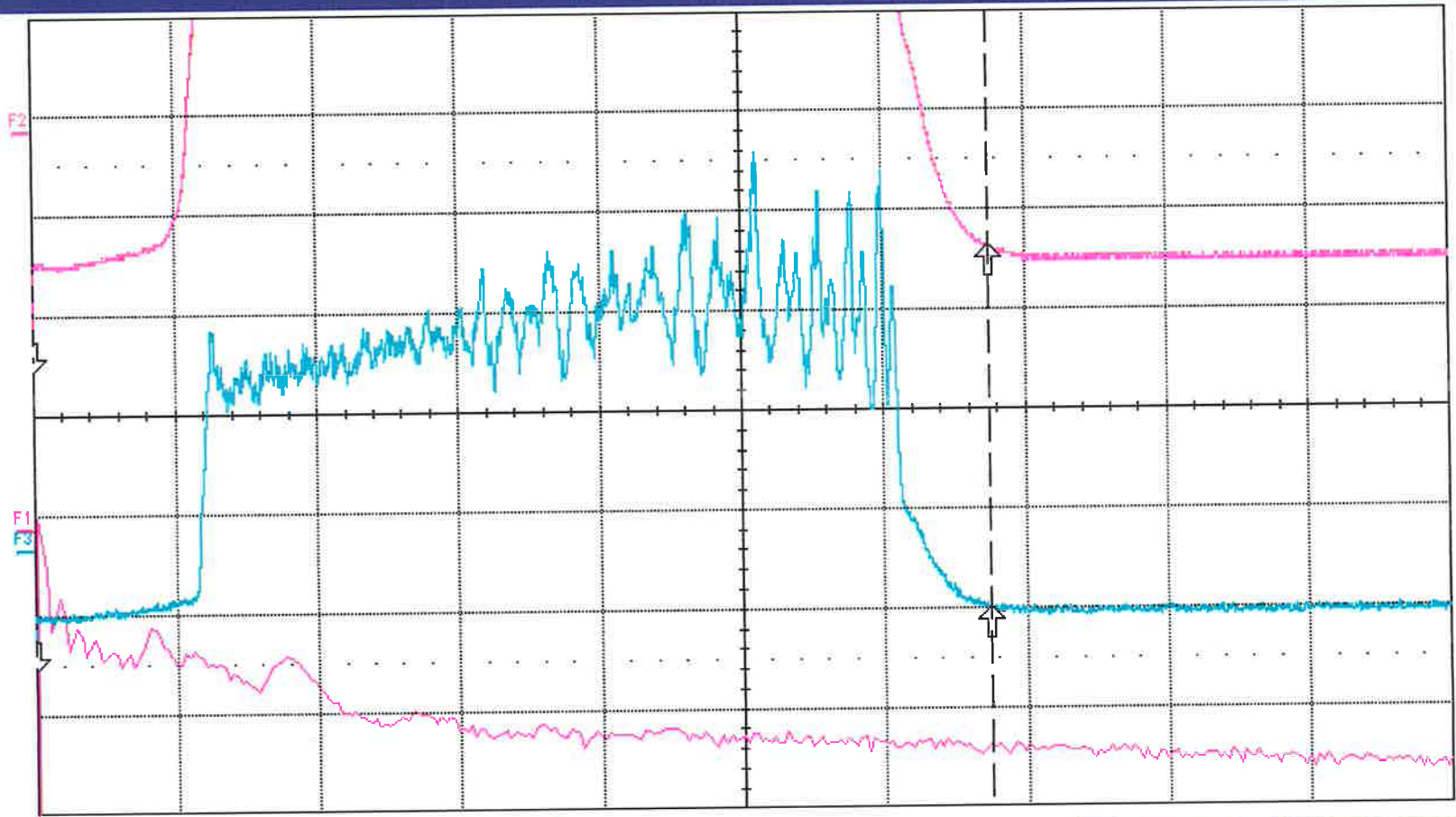
8/1/2023 3:06:21 PM



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div		500e-3/div		1.00/div	
10.0 kHz/div		500 μs/div		500 μs/div	
18 #		18 #			
↓	---	↓	---	↓	---
↑	---	↑	-553.900e-3	↑	-563.6e-3
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help

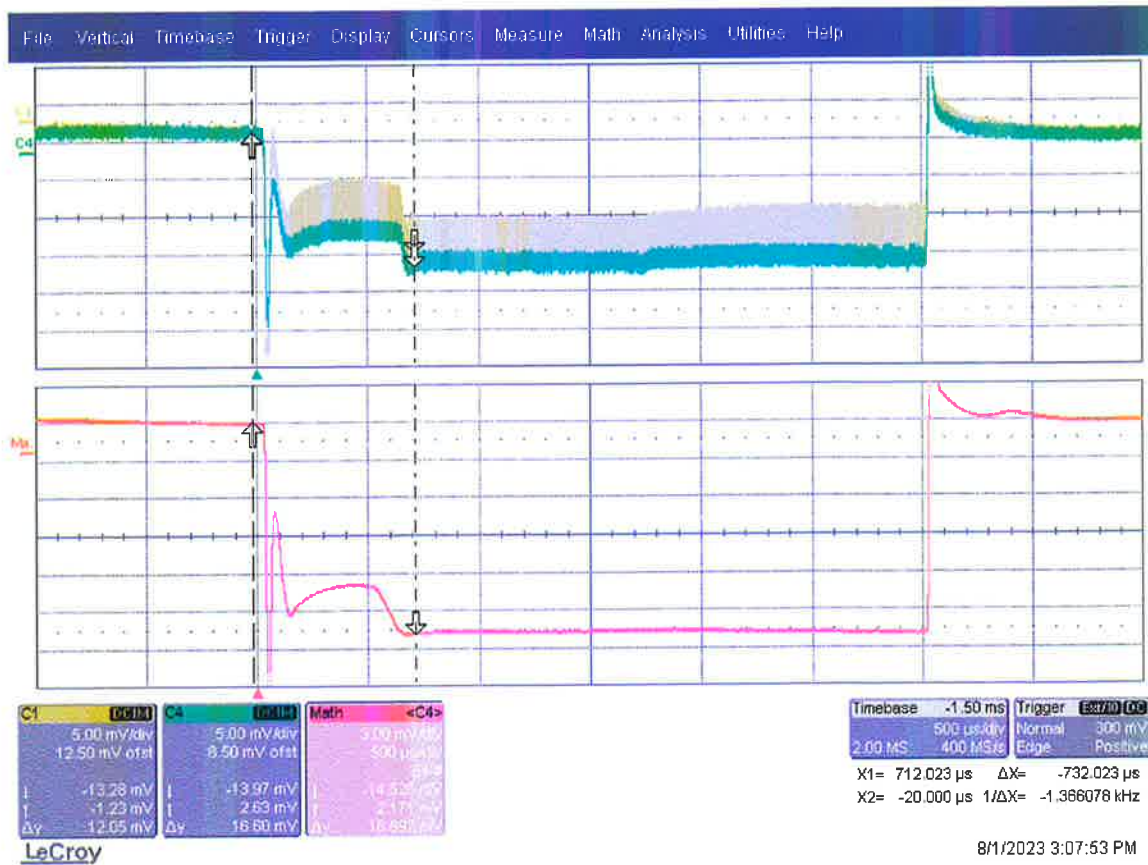


F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div		500e-3/div		1.00/div	
10.0 kHz/div		500 μs/div		500 μs/div	
29 #		29 #			
↓		↓		↓	
↑		↑		↑	
Δy		Δy		Δy	

Tbase	-2.50 ms	Trigger	Ext10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

LeCroy

Processing ...



8/1/2023 3:07:53 PM

1-Aug-23
15:09:28

1
.1 ms
0.50 V

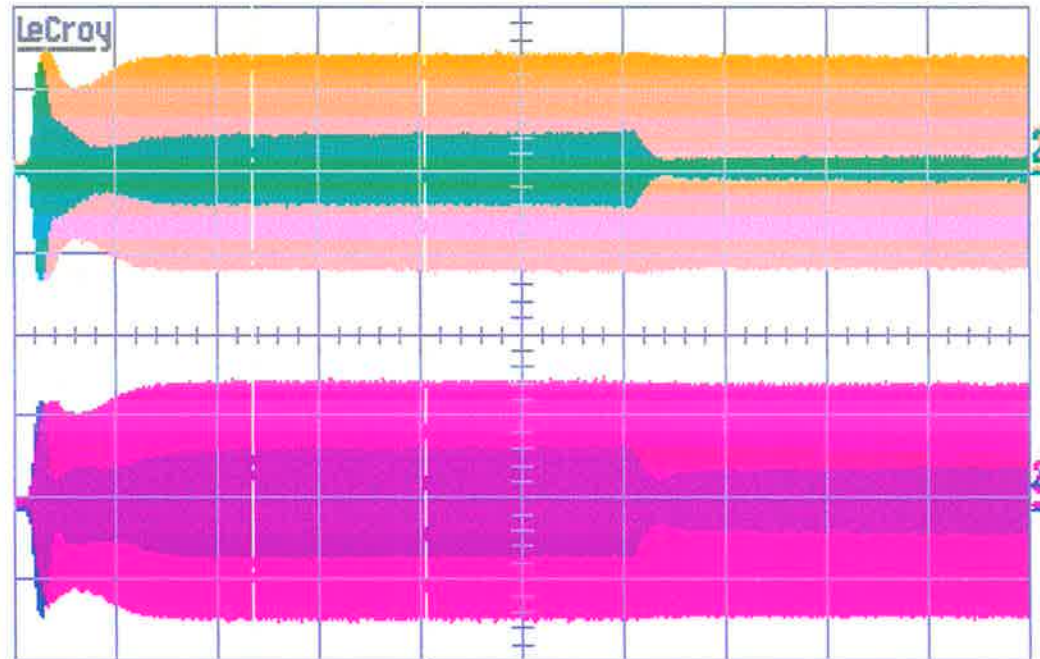
2
.1 ms
200 mV

3
.1 ms
0.50 V

4
.1 ms
200 mV

.1 ms

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



← 0.01 ms

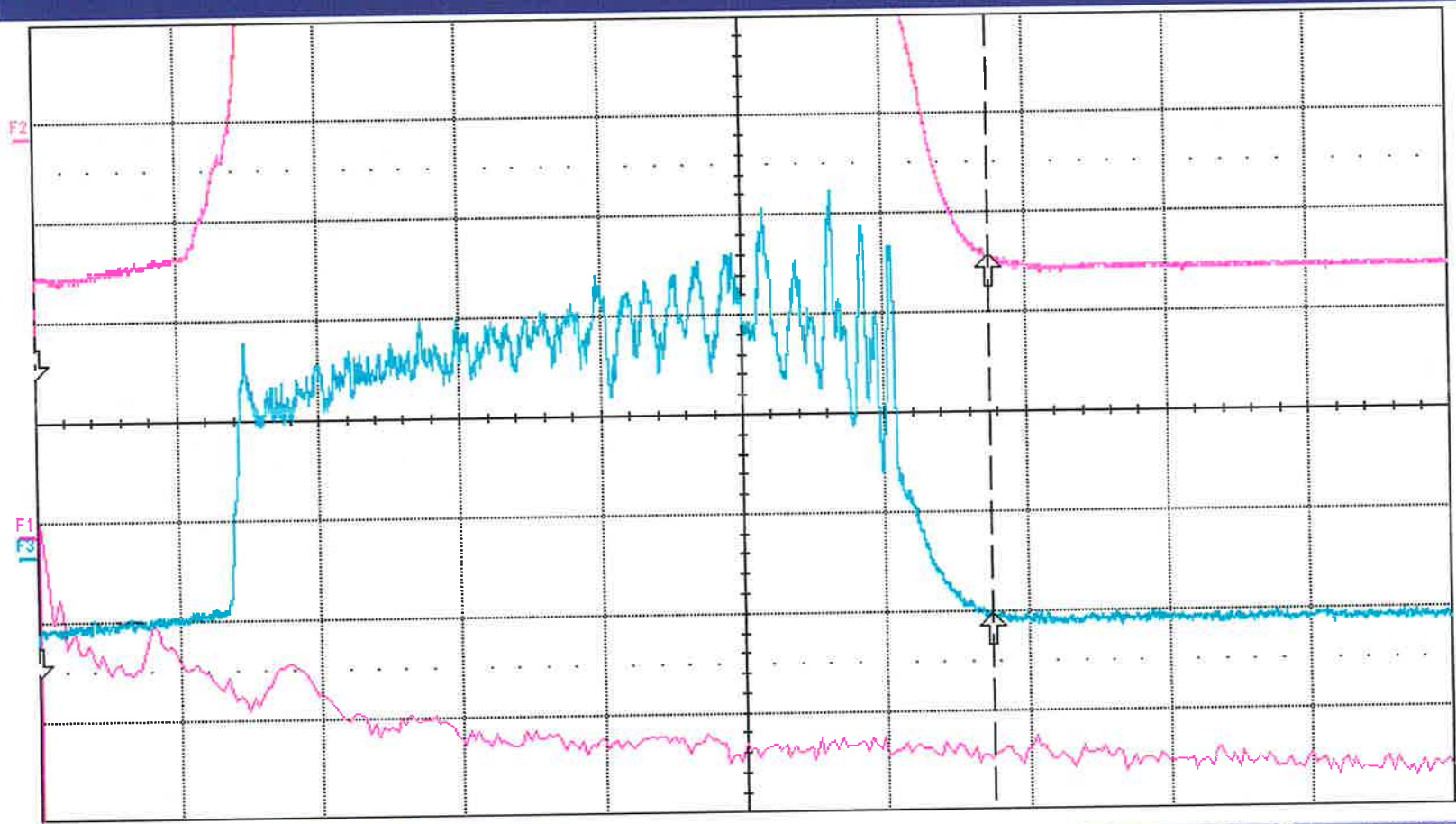
	69 sweeps:	average	low	high	sigma
rms(1)		458.3mV	457.5	460.2	0.6
rms(2)		58.4mV	58.2	58.6	0.1
rms(3)		499.5mV	498.9	500.9	0.5
rms(4)		91.1mV	90.8	91.4	0.1
phase(1,3)		81.1 °	77.4	85.3	1.1



Ext DC 440mV 1MΩ

100 MS/s

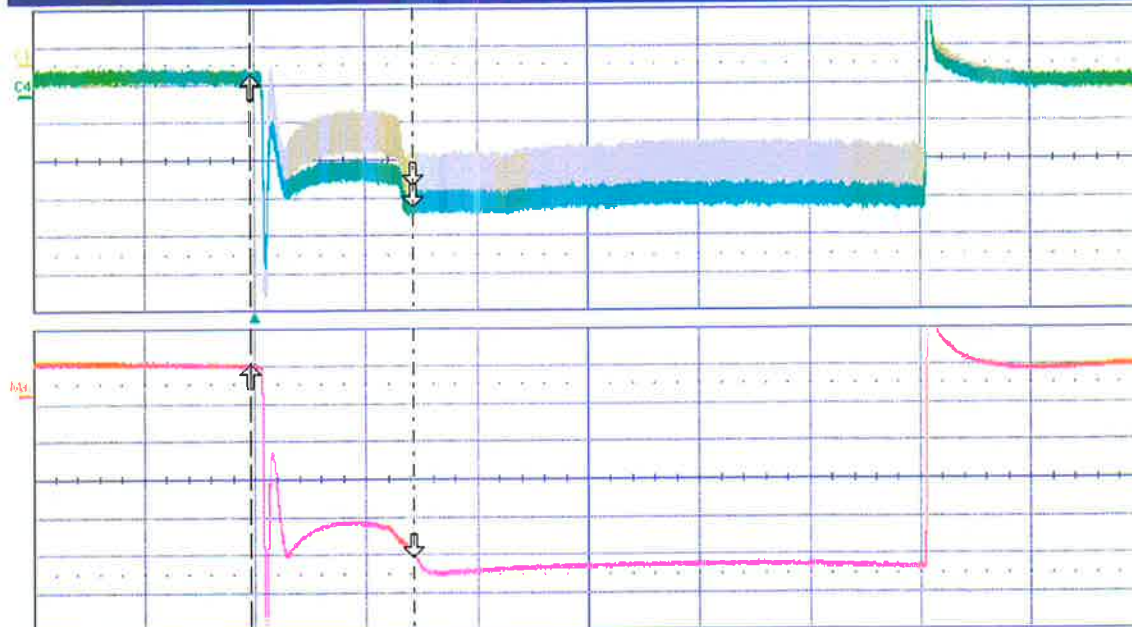
☐ NORMAL



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div		500e-3/div		1.00/div	
10.0 kHz/div		500 μs/div		500 μs/div	
17 #		17 #			
L		L		L	
↑		↑		↑	
Δy		Δy		Δy	

Thase	-2.50 ms	Trigger	Ext/10 DC
500 μs/div		Normal	130 mV
100 kS		Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



C1	C2	C3	Math
5.00 mV/div	5.00 mV/div	5.00 mV/div	5.00 mV/div
12.50 mV offset	8.50 mV offset	500 pA/div	500 pA/div
1	1	1	1
-15.78 mV	-14.44 mV	-12.35 mV	-12.35 mV
-1.69 mV	2.50 mV	2.50 mV	2.50 mV
Δy	Δy	Δy	Δy
14.18 mV	16.94 mV	15.034 mV	15.034 mV

Timebase	-1.50 ms	Trigger	Edge/DC
500 μs/div	Normal	300 mV	
2.00 MS	400 MS/s	Edge	Positive

X1= 712.023 μs ΔX= -732.023 μs
X2= -20.000 μs 1/ΔX= -1.368078 kHz

LeCroy

8/1/2023 3:08:53 PM

1-Aug-23
15:10:28

1
.1 ms
0.50 V

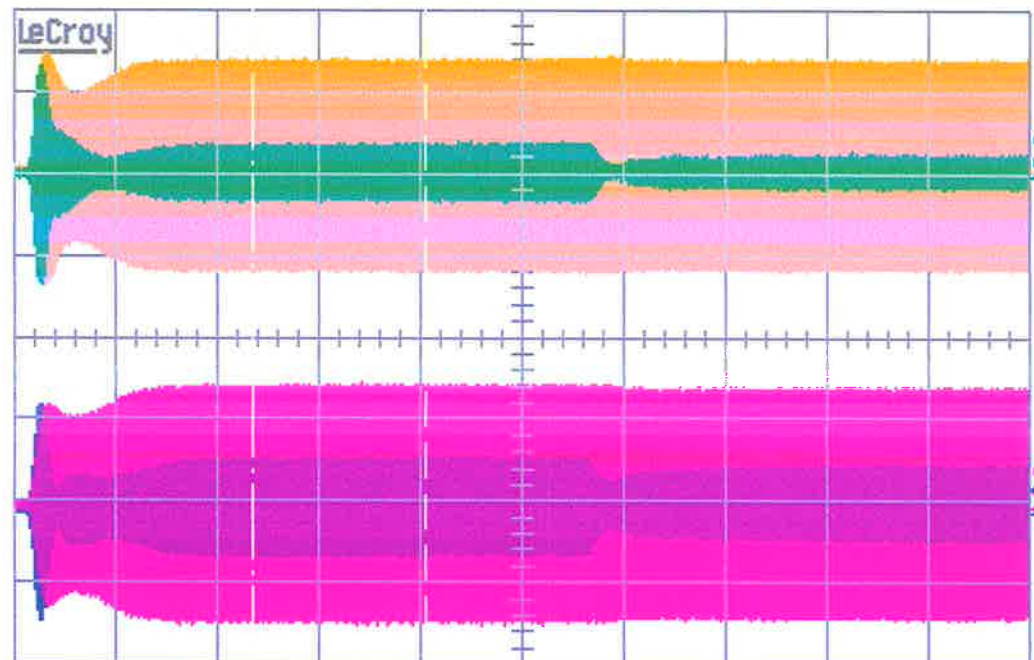
2
.1 ms
200 mV

3
.1 ms
0.50 V

4
.1 ms
200 mV

.1 ms

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



← 0.01 ms

29 sweeps: average low high sigma

rms(1)	448.4mV	446.8	451.1	1.1
rms(2)	48.9mV	48.6	49.2	0.2
rms(3)	496.5mV	495.1	498.7	0.9
rms(4)	86.0mV	85.6	86.5	0.2
phase(1,3)	80.2 °	76.9	84.0	1.1



Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL

1-Aug-23
15:12:20

1
.1 ms
0.50 V

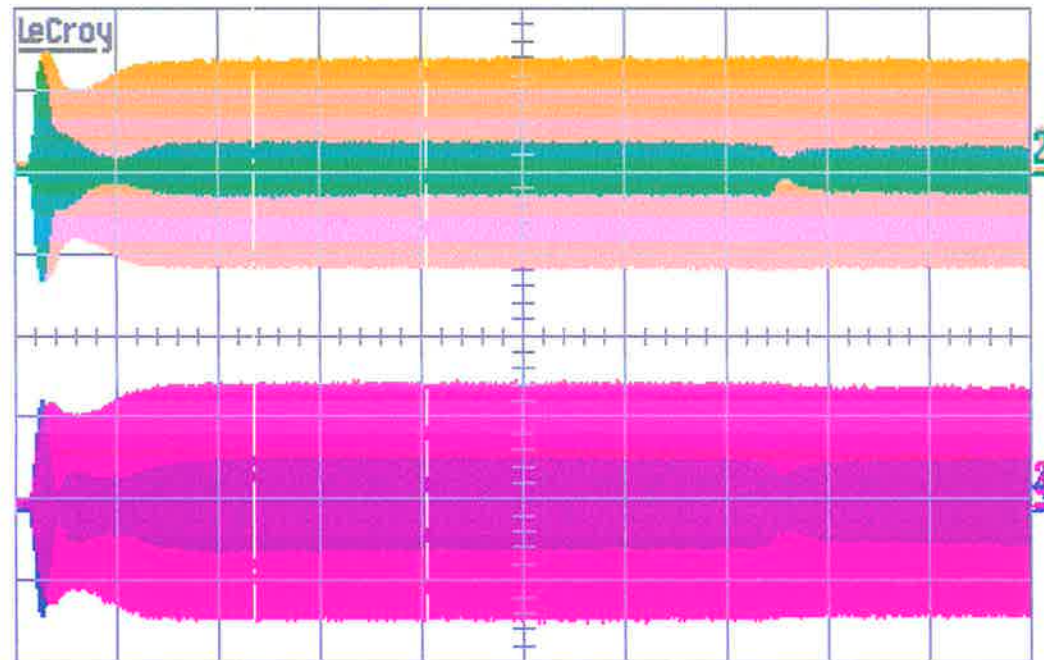
2
.1 ms
200mV

3
.1 ms
0.50 V

4
.1 ms
200mV

.1 ms

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



← 0.01 ms

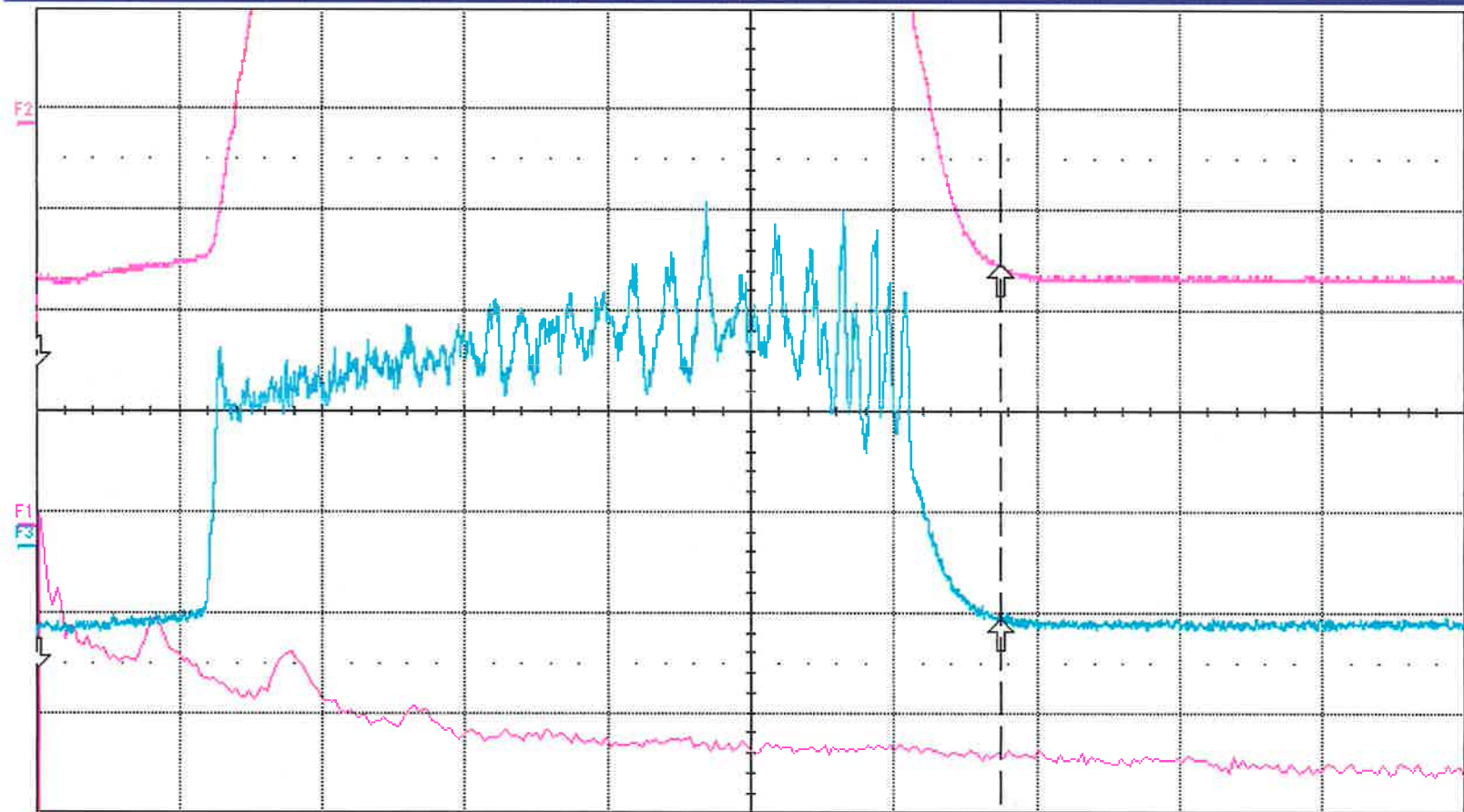
	70 sweeps:	average	low	high	sigma
rms(1)		441.2mV	439.4	443.6	1.0
rms(2)		41.9mV	40.8	42.1	0.2
rms(3)		494.4mV	492.9	497.0	1.0
rms(4)		83.9mV	83.4	84.3	0.2
phase(1,3)		79.1 °	75.6	83.7	1.1



Ext DC 440mV 1MΩ

100 MS/s

☐ NORMAL



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
43 #	43 #				
↓	---	↓	---	↓	---
↑	---	↑	-695.970e-3	↑	-720.0e-3
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext/10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:14:33

1
.1 ms
0.50 V

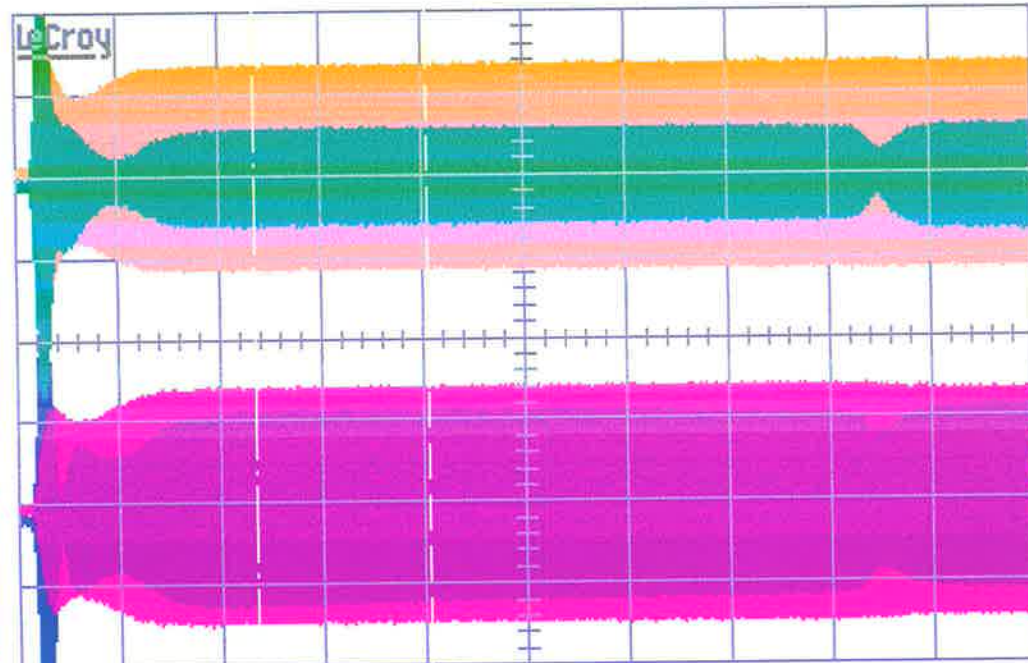
2
.1 ms
100mV

3
.1 ms
0.50 V

4
.1 ms
100mV

.1 ms

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



← 0.01 ms

	47 sweeps:	average	low	high	sigma
rms(1)		433.2mV	431.5	435.9	1.0
rms(2)		37.1mV	36.7	37.3	0.1
rms(3)		490.6mV	489.2	493.3	1.1
rms(4)		83.6mV	83.0	84.1	0.2
phase(1,3)		78.0 °	73.5	81.4	1.2



Ext DC 440mV 1MΩ

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

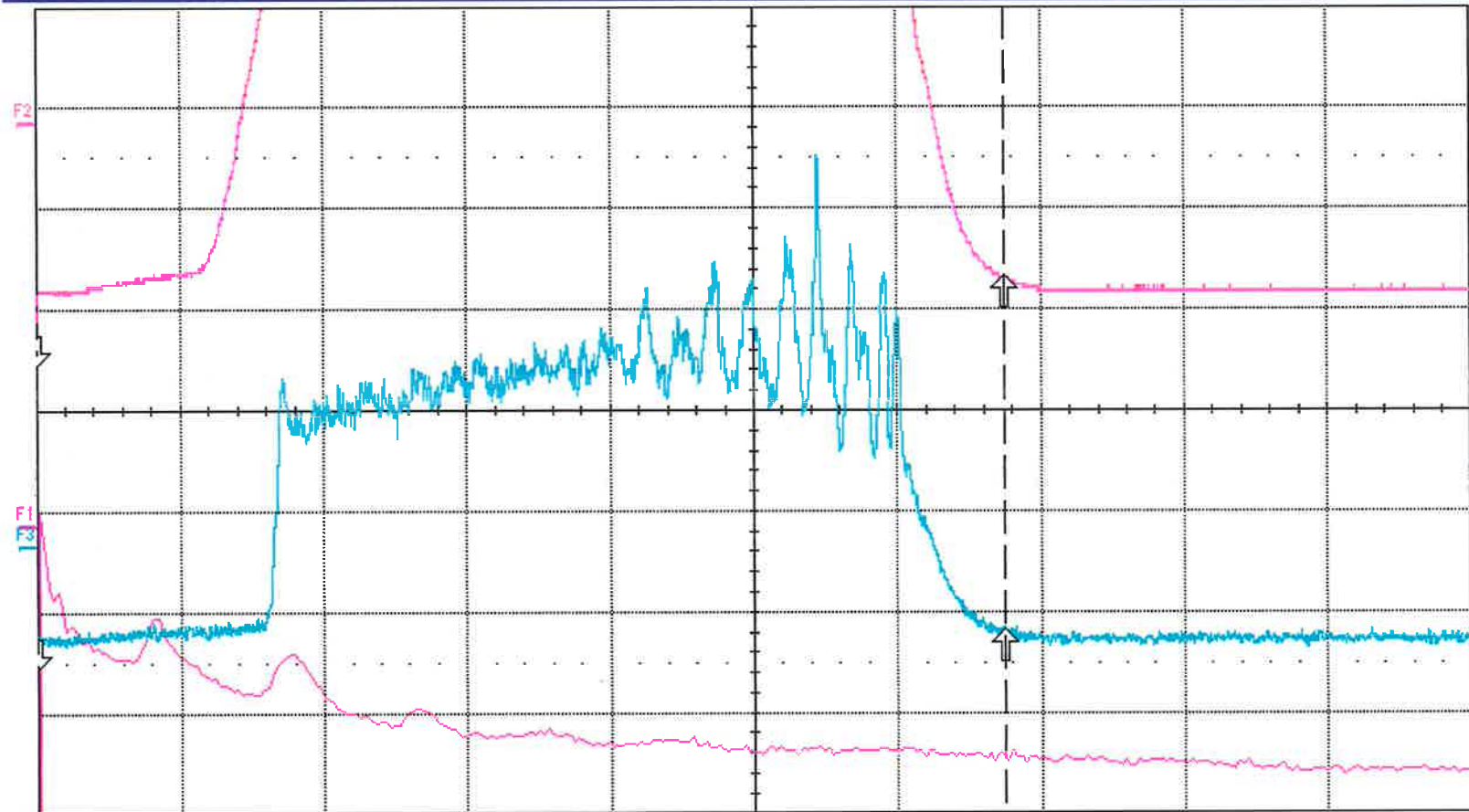
Gain
Fixed ☒ variable

Offsets in
Volts ☒ Divisions

Grids
Single ☒ Dual
Quad Octal

100 MS/s

☐ NORMAL



F1	<FFT(F3)>	F2	<F3>	F3	script(C3,C2)
20.0 dB/div	500e-3/div	1.00/div			
10.0 kHz/div	500 μs/div	500 μs/div			
107 #	107 #				
↓	---	↓	---	↓	---
↑	---	↑	---	↑	---
Δy	---	Δy	---	Δy	---

Tbase	-2.50 ms	Trigger	Ext10 DC
	500 μs/div	Normal	130 mV
100 kS	20 MS/s	Edge	Positive
X1=	0.00 μs	ΔX=	3.37400 ms
X2=	3.37400 ms	1/ΔX=	296.384 Hz

1-Aug-23
15:23:18

1
.5 ms
0.50 V

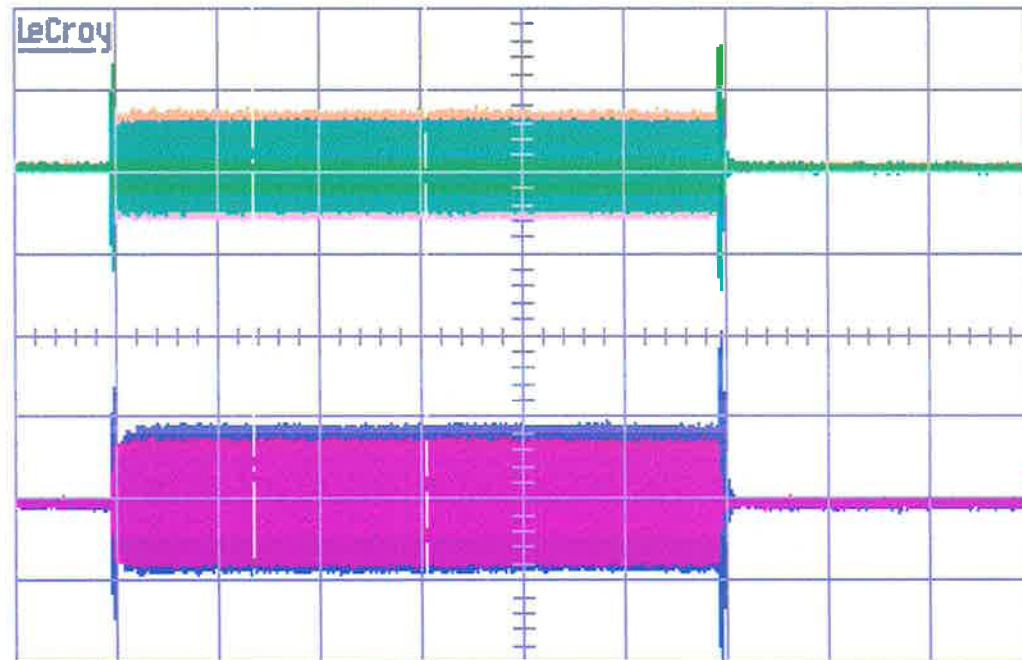
2
.5 ms
100mV

3
.5 ms
0.50 V

4
.5 ms
100mV

.5 ms

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



8 sweeps: average low high sigma
rms(1) 225.5mV 224.9 225.9 0.3
rms(2) 38.7mV 38.5 38.8 0.1
rms(3) 260.3mV 259.7 260.7 0.3
rms(4) 59.2mV 59.0 59.4 0.1
phase(1,3) 89.4 ° 82.6 95.1 2.3



Ext DC 440mV 1MΩ

CHANNEL 4

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
☒ Fixed
variable

Offsets in
☒ Volts
Divisions

Grids
☒ Single Dual
Quad Octal

20 MS/s

☐ NORMAL

1-Aug-23
15:23:46

1
.5 ms
0.50 V

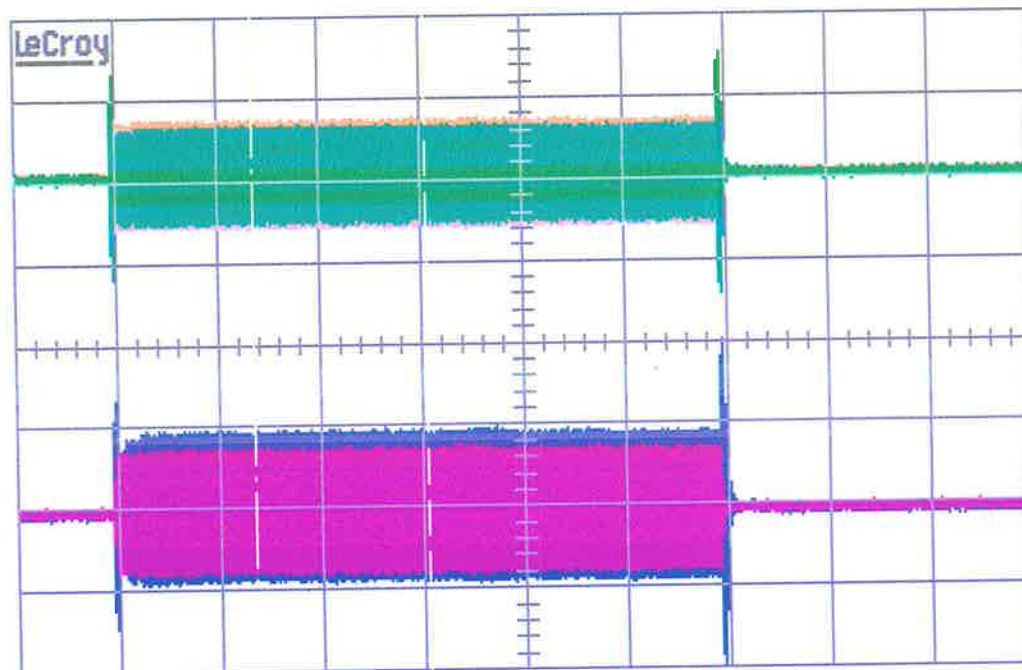
2
.5 ms
100 mV

3
.5 ms
0.50 V

4
.5 ms
100 mV

.5 ms

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



5 sweeps: average low high sigma

rms(1)	223.4mV	223.1	223.9	0.4
rms(2)	40.2mV	40.1	40.2	0.1
rms(3)	256.9mV	256.6	257.5	0.3
rms(4)	60.6mV	60.5	60.7	0.1
phase(1,3)	89.8 °	83.8	96.2	2.4



Ext DC 440mV 1MΩ

CHANNEL 4

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

Offsets in
Volts ☒ Divisions

Grids
Single ☒ Dual
Quad Octal

20 MS/s

☐ NORMAL