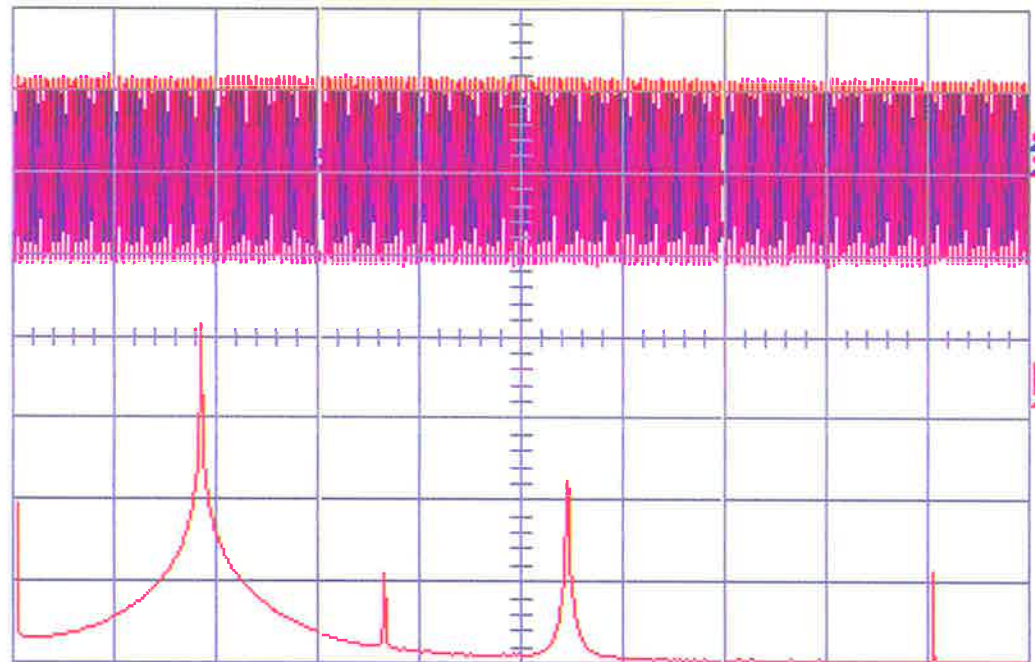


3-Jan-23
13:21:19

3
10 μ s
2.00 V

4
10 μ s
2.00 V
3: Average(**4**)
1 MHz
=15.0 dBm==



← 1.900 ms

	117 sweeps:	average	low	high	sigma
phase(4 , 3)		100.82 °	93.14	106.93	1.79
pkpk(3)		4.65 V	4.56	4.75	0.05
rms(2)		40.8mV	39.7	42.0	0.5
rms(4)		1.203 V	1.180	1.224	0.009
rms(3)		1.465 V	1.443	1.487	0.010

10 μ s

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



Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

3-Jan-23
13:21:23

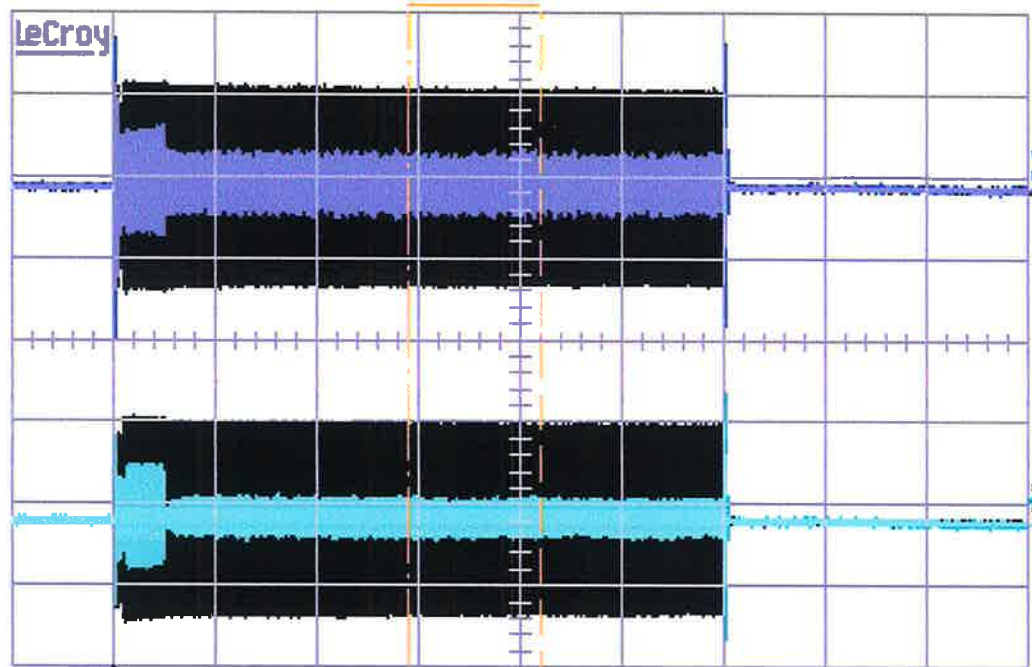
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200 mV

2
1 ms
200 mV

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



125 sweeps: average low high sigma
rms(1) 418.8mV 414.4 423.1 2.6
rms(2) 49.5mV 47.9 50.9 0.7
rms(3) 405.2mV 401.3 408.7 2.1
rms(4) 29.3mV 26.9 30.8 0.7
phase(1,3) 78 ° 72 83 2



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

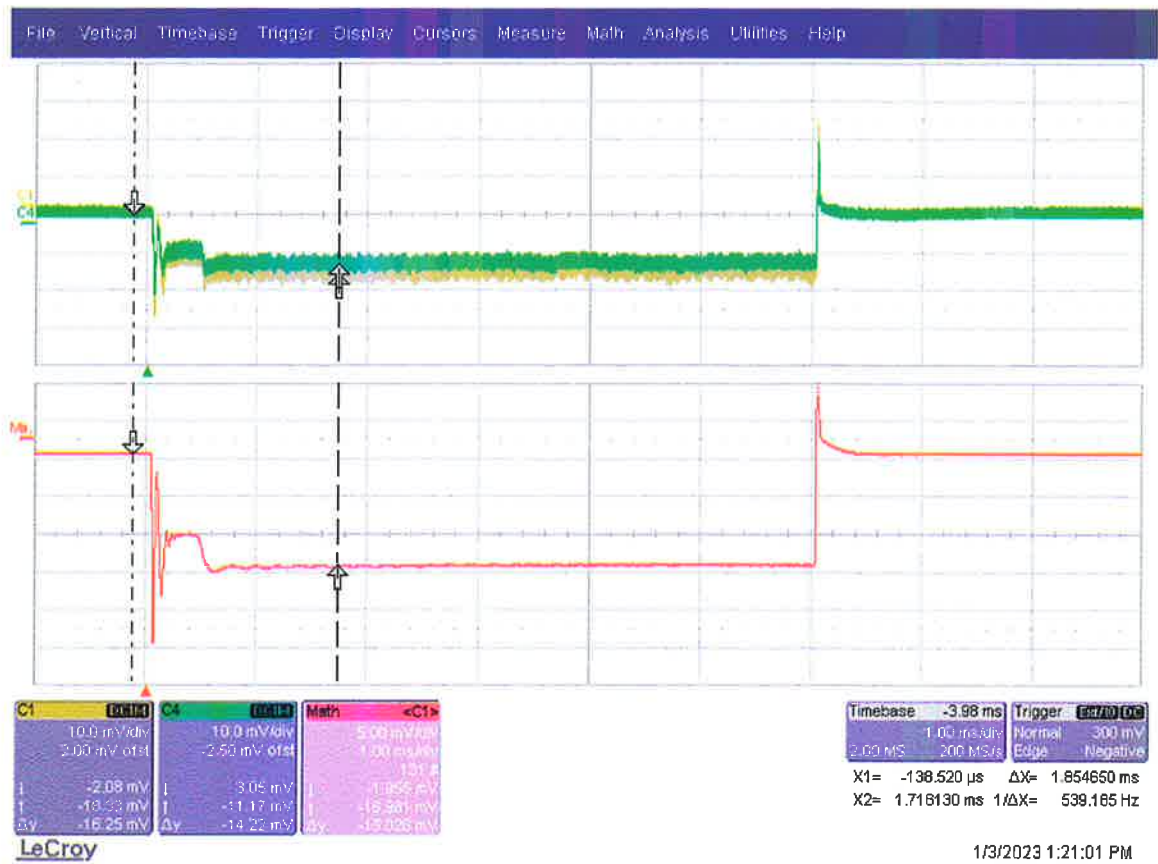
Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single Dual ☒
Quad Octal

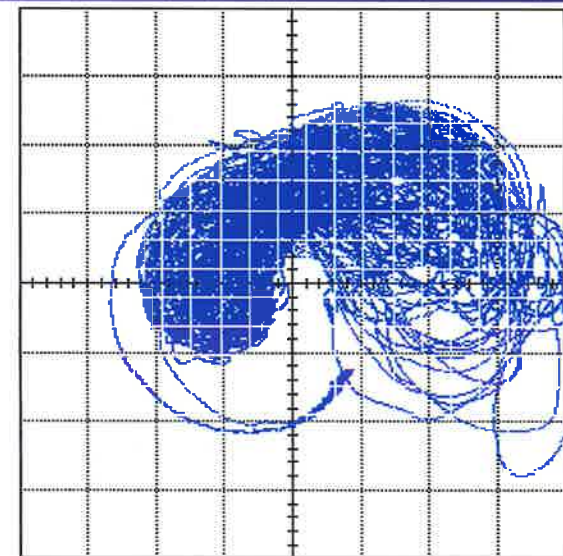
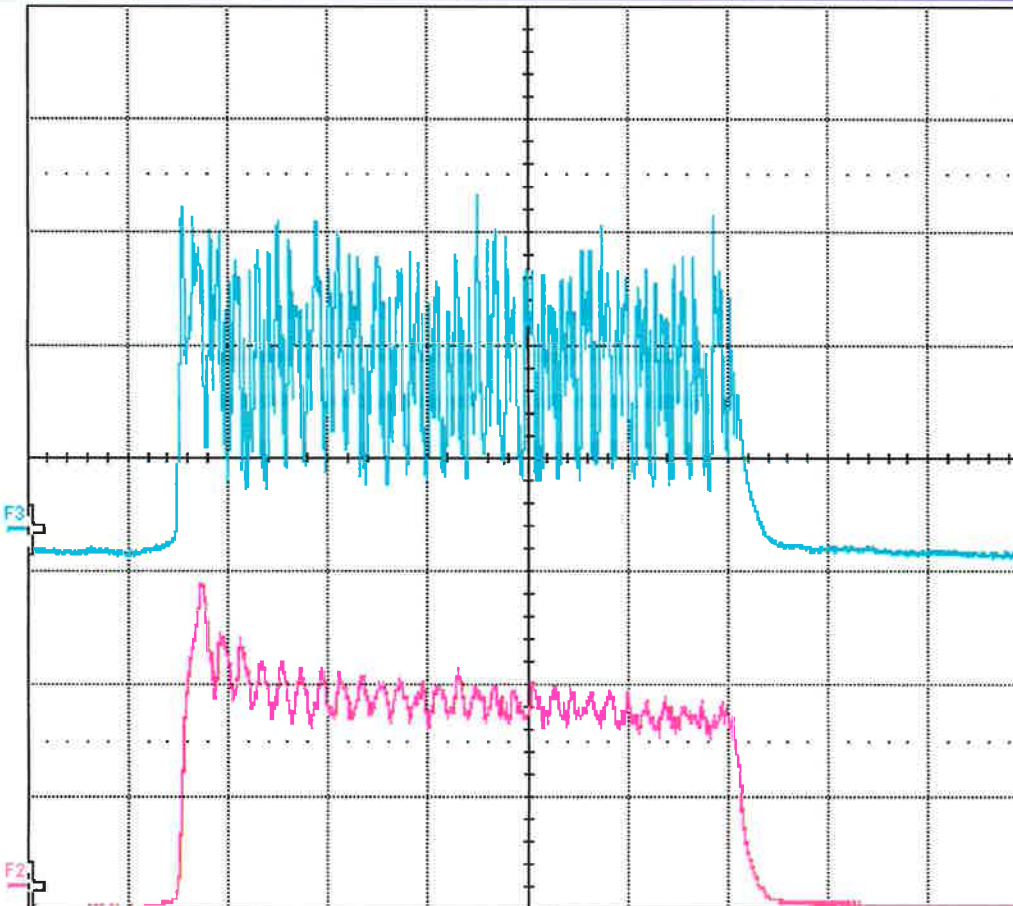
10 MS/s

☐ NORMAL



1/3/2023 1:21:01 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = 0$ $\Delta Y^* \Delta X = 0 \text{ V}^2$
 0 dB $\text{Angle} = 0^\circ$
 $\text{Radius} = 0 \text{ V}$

F2	<F3>	F3 script(C3,C2)	XY	X:C2 Y:C3
2.00/div	2.00/div	2.00/div	200 mV/div	---
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	---
71 #				

Tbase -3.98 ms Trigger **Err/10 DC**
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

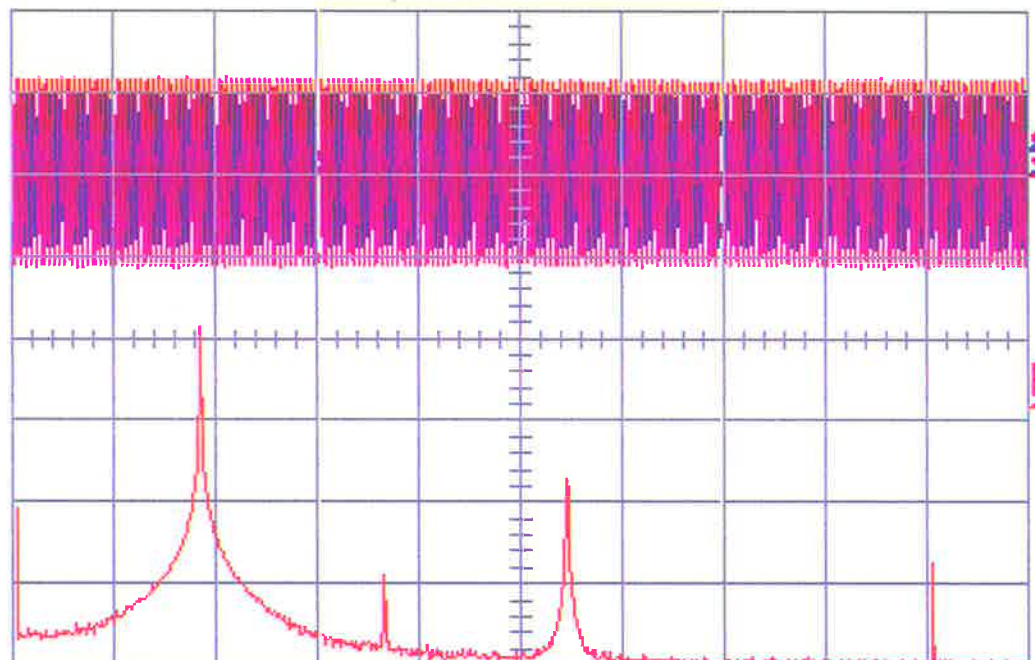
LeCroy

1/3/2023 1:21:17 PM

3-Jan-23
13:43:39

3
10 μ s
2.00 V

4
10 μ s
2.00 V
B: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	6 sweeps:	average	low	high	sigma
phase(4,3)		99.74 °	95.27	105.42	1.82
pkpk(3)		4.66 V	4.63	4.69	0.03
rms(2)		41.6mV	41.0	42.1	0.5
rms(4)		1.228 V	1.206	1.249	0.014
rms(3)		1.471 V	1.464	1.483	0.007

10 μ s

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



Ext10 DC 0.15 V 50 Ω

1 GS/s

DISPLAY



NORMAL

3-Jan-23
13:43:42

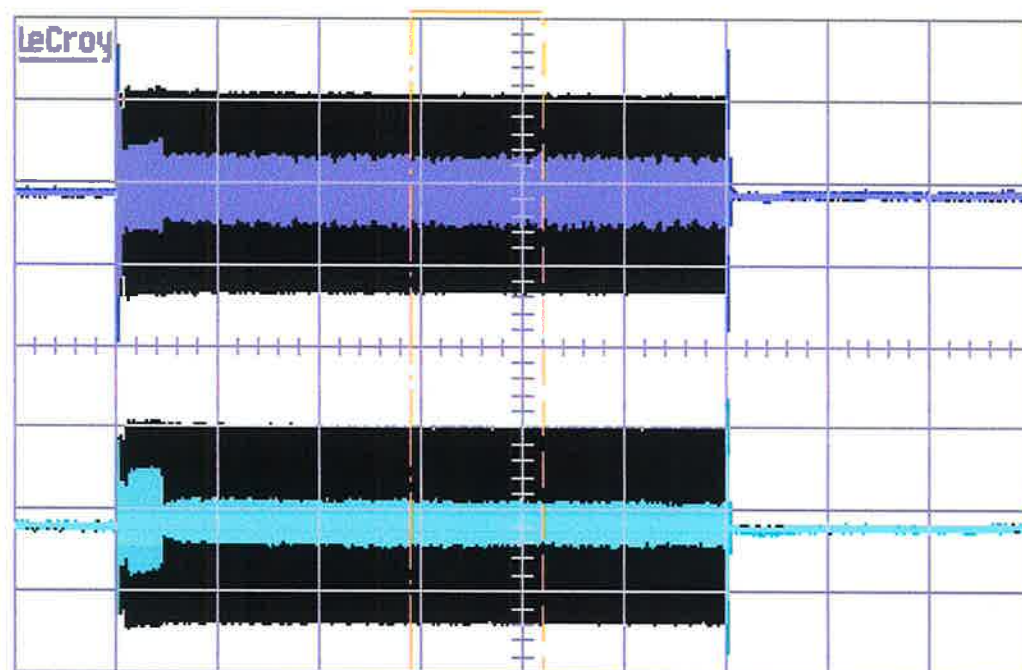
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200 mV

2
1 ms
200 mV

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



37 sweeps: average low high sigma
rms(1) 416.8mV 413.9 420.0 1.9
rms(2) 51.3mV 50.0 52.2 0.5
rms(3) 409.1mV 407.0 411.7 1.4
rms(4) 31.7mV 30.4 32.8 0.5
phase(1,3) 78 ° 72 83 2



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

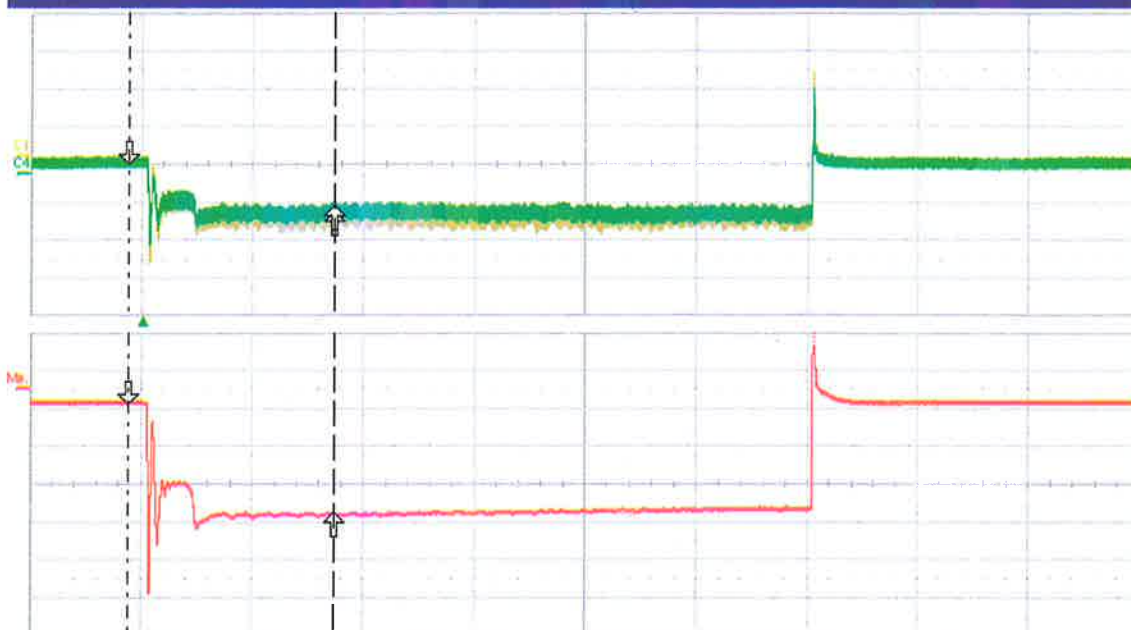
Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

10 MS/s

☐ NORMAL



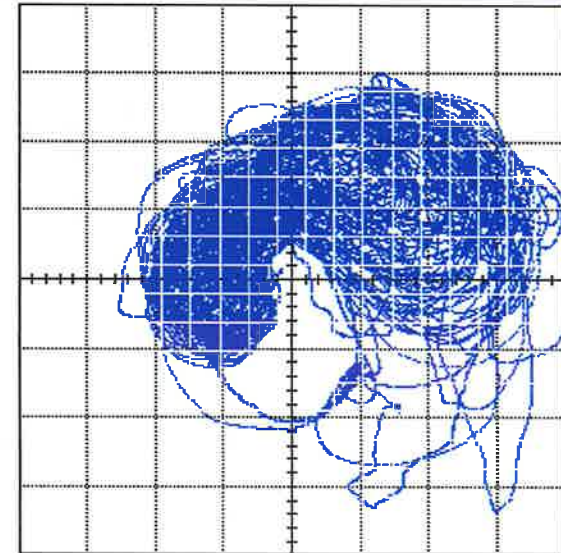
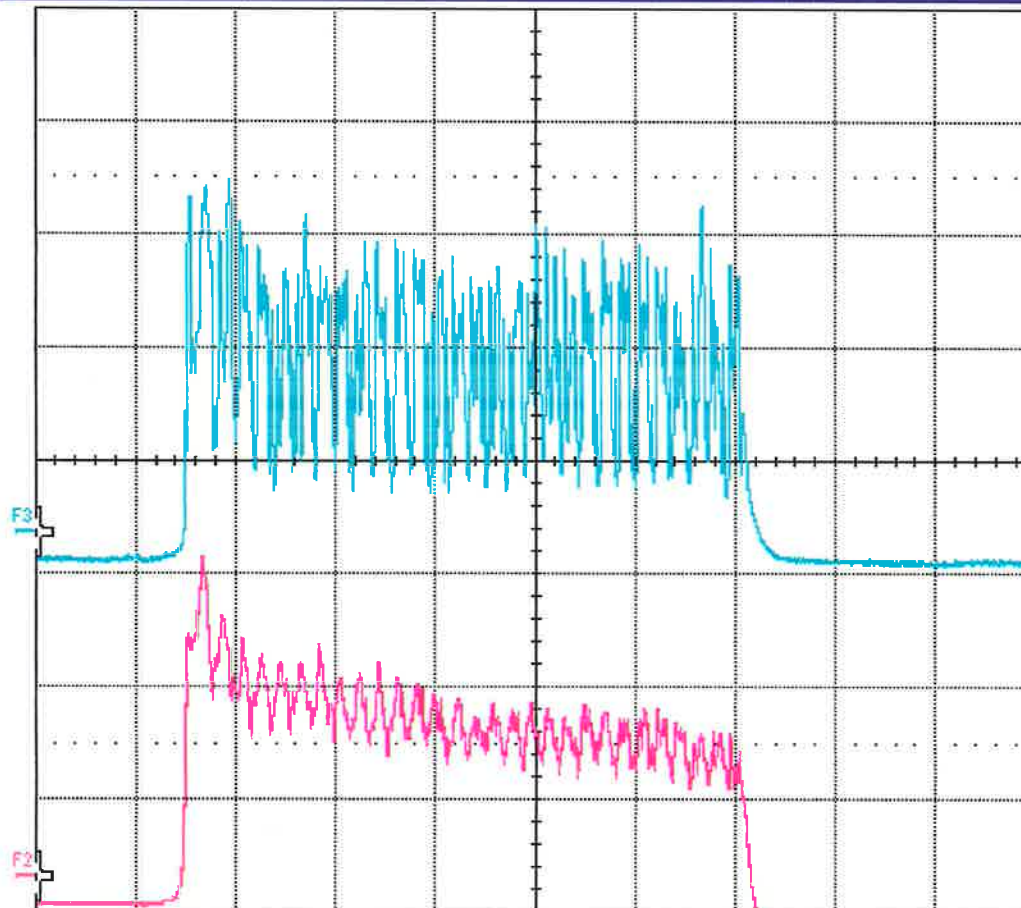
C1	CH1M1	C4	CH1M1	Math	<C1>
10.0 mV/div	10.0 mV/div	10.0 mV/div	10.0 mV/div	5.00 mV/div	
2.00 mV ofst	2.00 mV ofst	-2.50 mV ofst	-2.50 mV ofst	1.00 mV/div	
				0.00	
1 -1.69 mV	1 2.81 mV	1 -1.86 mV	1 -1.86 mV		
1 -14.69 mV	1 -8.03 mV	1 -16.52 mV	1 -16.52 mV		
ΔV -13.21 mV	ΔV -11.64 mV	ΔV -14.72 mV	ΔV -14.72 mV		

Timebase	-3.98 ms	Trigger	Ext/Int
1.00 ms/div		Normal	300 mV
2.00 MS		Edge	Negative
X1=	-138.520 μs	ΔX=	1.854850 ms
X2=	1.716130 ms	1/ΔX=	539.165 Hz

LeCroy

1/3/2023 1:43:20 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = 0$ $\Delta Y^2/\Delta X = 0 \text{ V}^2$
 0 dB $\text{Angle} = 0^\circ$
 $\text{Radius} = 0 \text{ V}$

F2	<F3>	F3 script(C3,C2)	XY	X C2 Y C3
2.00/div	2.00/div	2.00/div	200 mV/div	200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	200 mV/div
28 #				

Tbase -3.98 ms Trigger Ext 10 DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

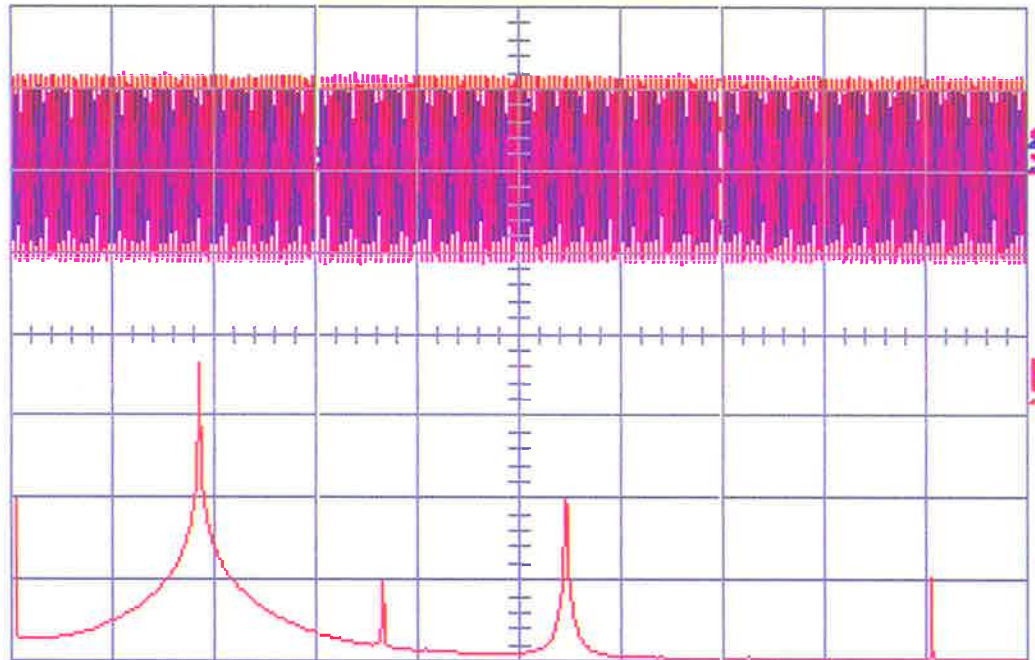
1/3/2023 1:43:40 PM

3-Jan-23
13:54:03

3
10 μ s
2.00 V

4
10 μ s
2.00 V

3: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	630 sweeps:	average	low	high	sigma
phase(4,3)		99.78 °	90.69	107.19	1.92
pkpk(3)		4.12 V	0.31	5.19	1.44
rms(2)		36.0mV	2.5	42.3	12.6
rms(4)		1.067 V	0.052	1.325	0.387
rms(3)		1.290 V	0.045	1.591	0.475

10 μ s

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



Ext10 DC 0.15 V 50 Ω

1 GS/s

DISPLAY ☐ NORMAL

3-Jan-23
13:54:18

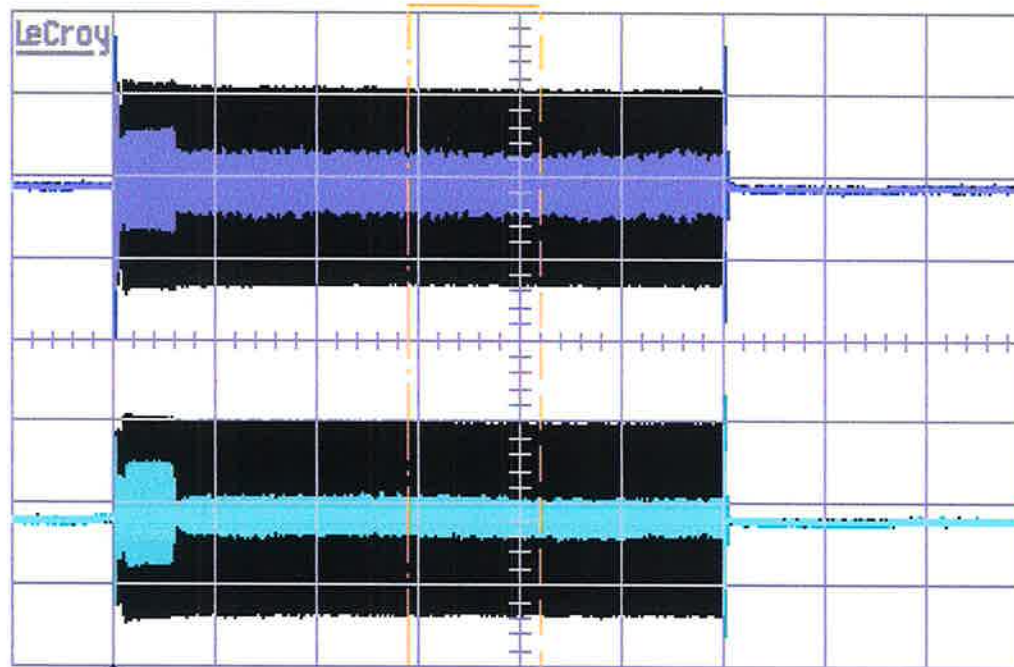
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

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



10 sweeps: average low high sigma
rms(1) 418.2mV 412.9 424.2 3.5
rms(2) 54.7mV 48.4 76.5 11.0
rms(3) 407.8mV 402.2 417.2 4.9
rms(4) 39.7mV 28.2 80.7 21.6
phase(1,3) 79 ° 74 88 3



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

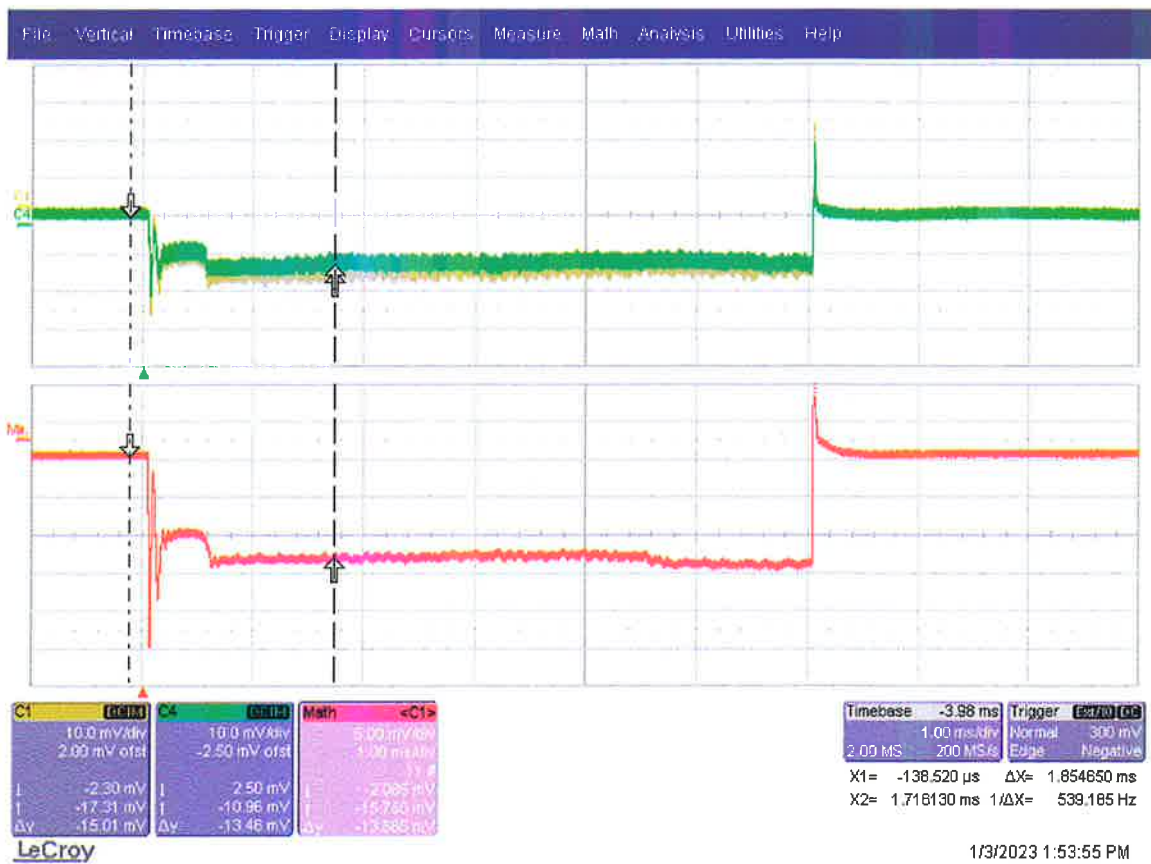
Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

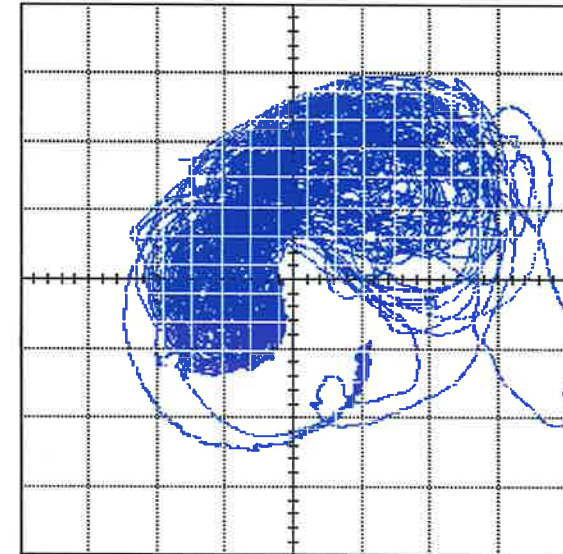
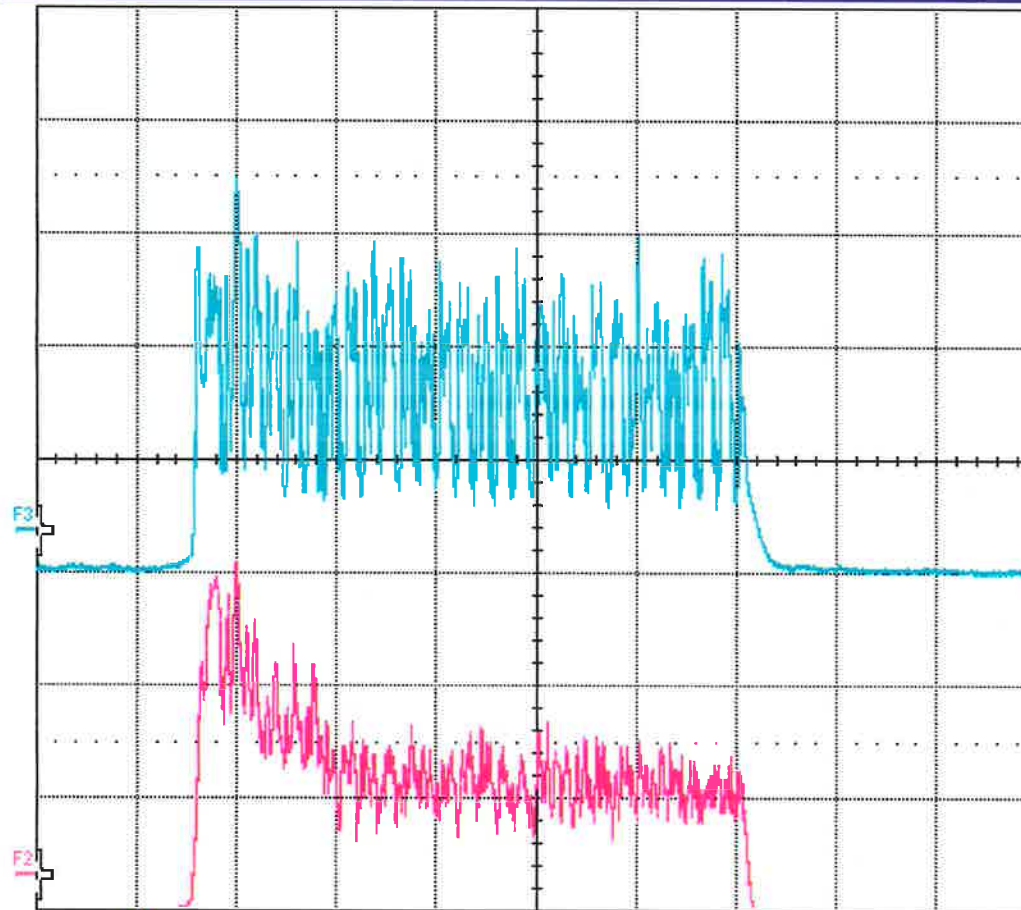
10 MS/s

☐ NORMAL



1/3/2023 1:53:55 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = 0$ $\Delta Y^* \Delta X = 0 \text{ V}^2$
 0 dB $\text{Angle} = 0^\circ$
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY X:C2 Y:C3
2.00/div	2.00/div	2.00/div	200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div
7 #			

Tbase -3.98 ms Trigger **Ext/10/DC**
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

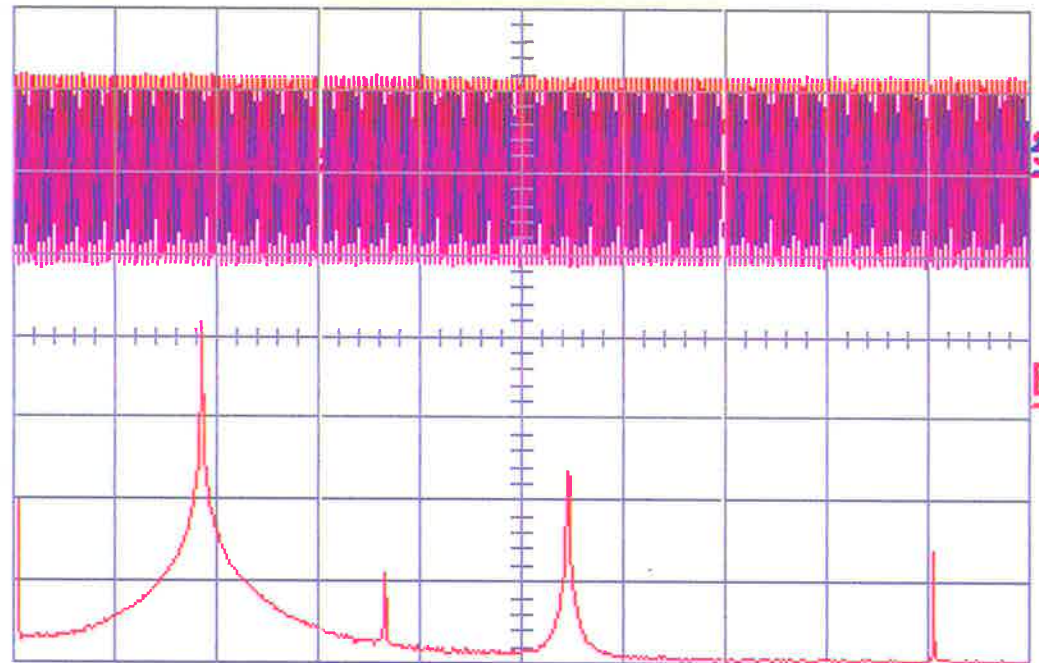
LeCroy

1/3/2023 1:54:13 PM

3-Jan-23
14:00:06

3
10 μ s
2.00 V

1
10 μ s
2.00 V
3: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	24 sweeps:	average	low	high	sigma
phase(4,3)		98.83 °	91.47	105.81	2.61
pkpk(3)		4.85 V	4.56	5.13	0.23
rms(2)		40.1mV	39.1	40.8	0.4
rms(4)		1.252 V	1.189	1.322	0.055
rms(3)		1.517 V	1.448	1.595	0.061

10 μ s

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



Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

3-Jan-23
14:00:09

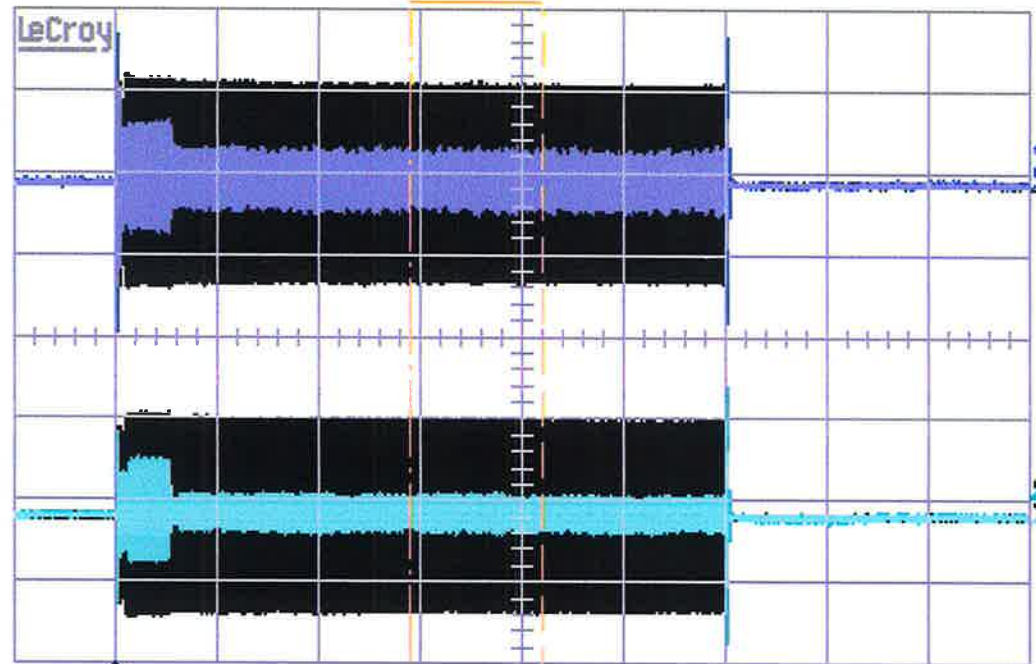
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200 mV

2
1 ms
200 mV

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



25 sweeps: average low high sigma

rms(1)	420.1mV	415.4	425.9	3.1
rms(2)	61.4mV	48.9	82.6	15.6
rms(3)	407.6mV	401.8	415.5	4.8
rms(4)	47.4mV	27.4	81.4	25.8
phase(1,3)	80 °	74	88	3



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

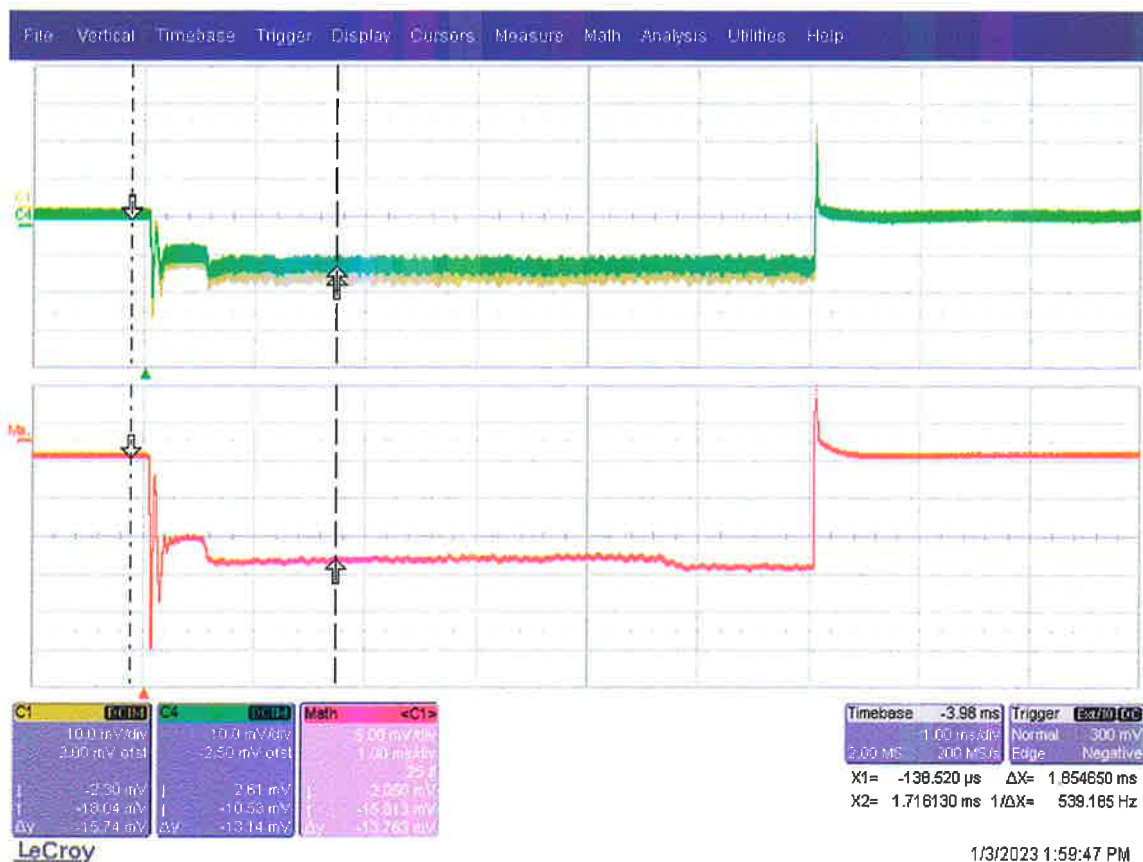
Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

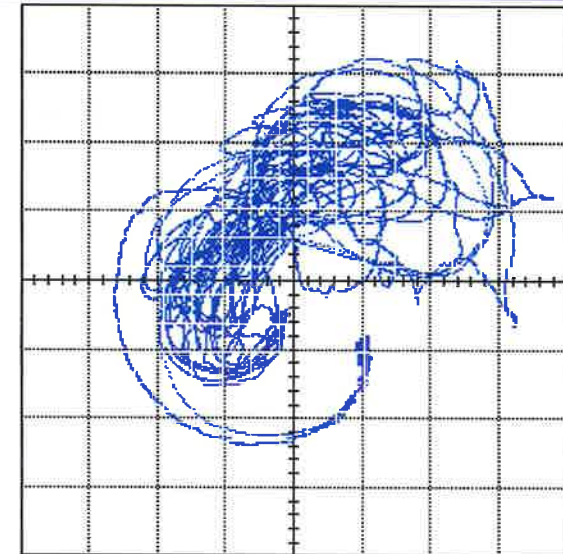
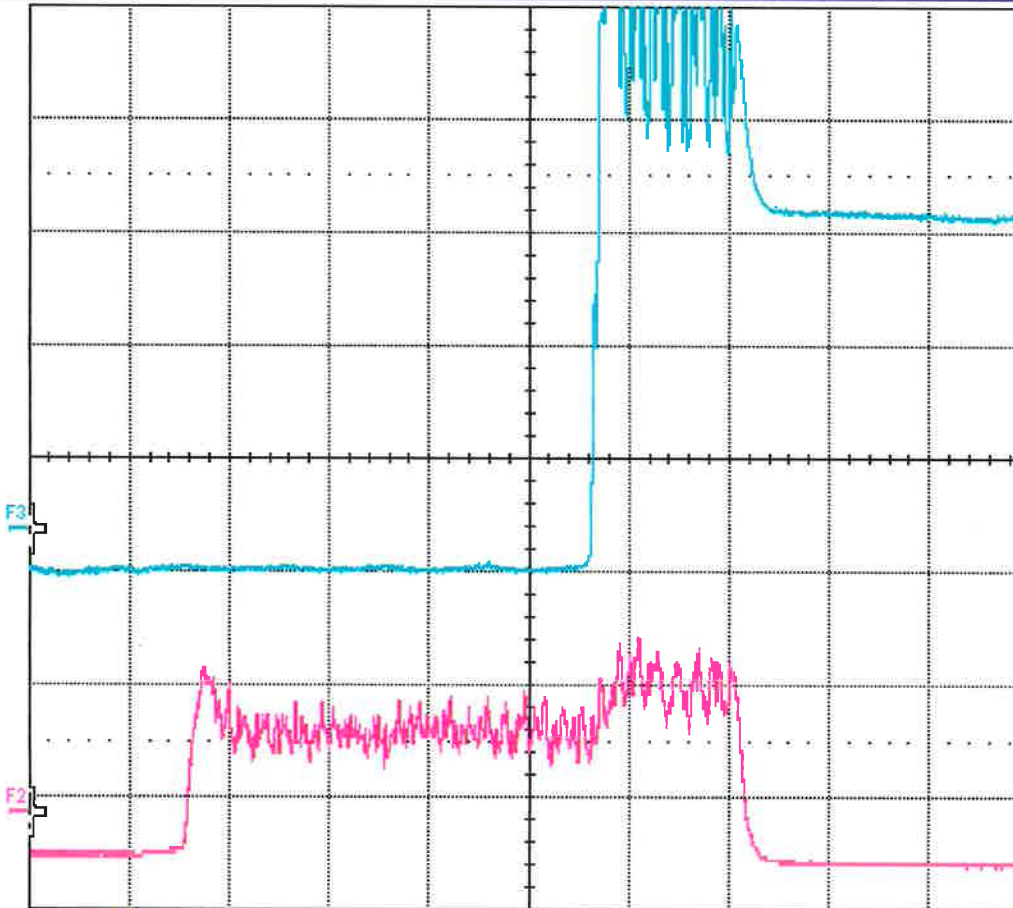
10 MS/s

☐ NORMAL



1/3/2023 1:59:47 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X=$ 0 $\Delta Y*\Delta X=$ 0 V²
 0 dB Angle= 0 °
 Radius= 0 V

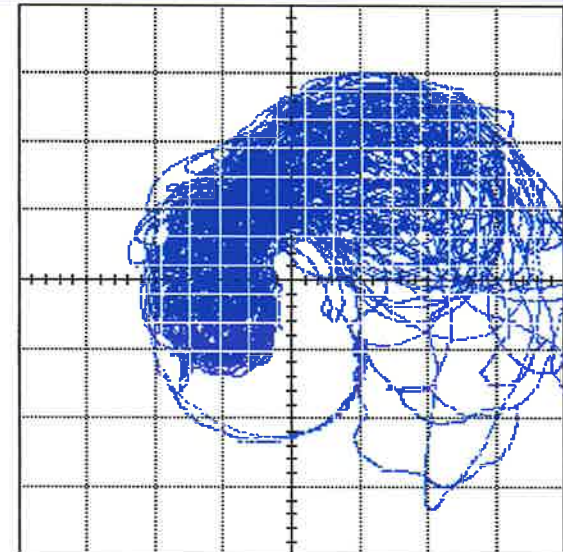
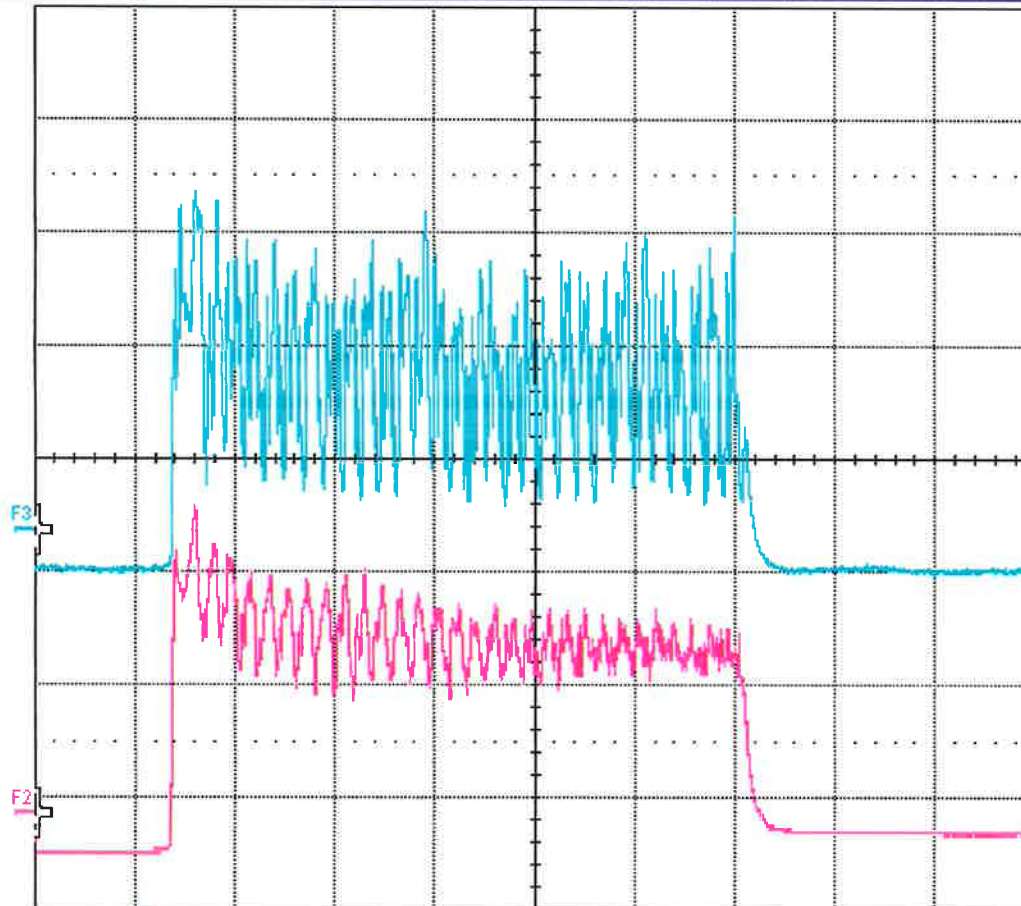
F2	<F3>	F3 script(C3,C2)	XY	X:C2 Y:C3
2.00/div	2.00/div	2.00/div	200 mV/div	---
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	---
19 #				

Tbase	-3.98 ms	Trigger	Ext/10/DC
	1.00 ms/div	Normal	130 mV
100 kS	10 MB/s	Edge	Negative
X1=	-1.0200 ms		

LeCroy

1/3/2023 2:00:15 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



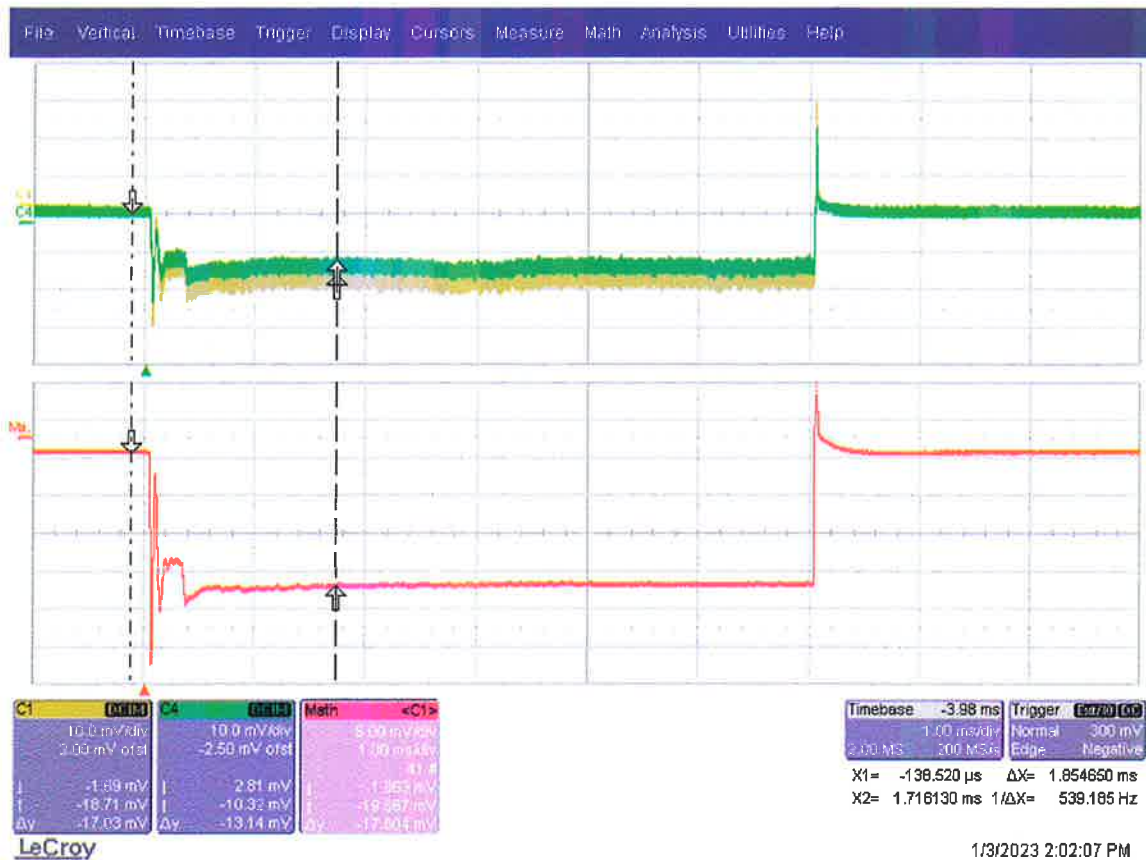
$\Delta Y/\Delta X = 0$ $\Delta Y^2/\Delta X = 0 \text{ V}^2$
 0 dB Angle = 0°
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X C2 Y C3
2.00/div	2.00/div	2.00/div	200 mV/div	200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	200 mV/div
17 #				

Tbase -3.98 ms Trigger **Ext/10 DC**
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

1/3/2023 2:02:17 PM



3-Jan-23
14:02:35

1
1 ms
0.50 V

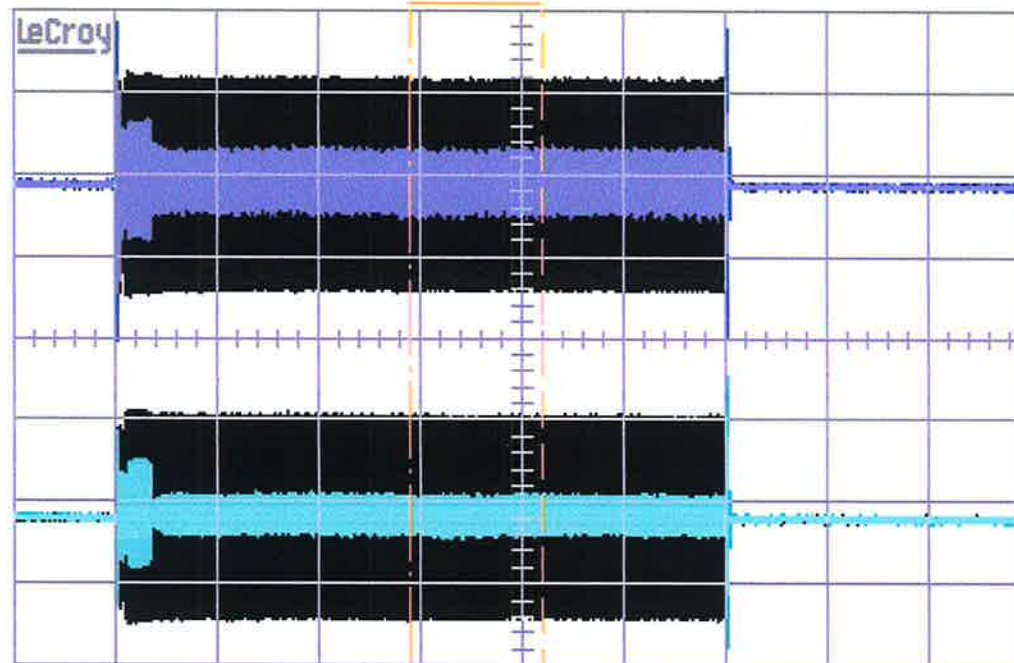
3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

1 ms

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



106 sweeps: average low high sigma
rms(1) 449.5mV 445.3 452.0 1.8
rms(2) 53.2mV 51.3 54.7 0.7
rms(3) 429.5mV 426.3 431.8 1.5
rms(4) 31.7mV 30.4 33.2 0.6
phase(1,3) 77 ° 72 82 1



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

10 MS/s

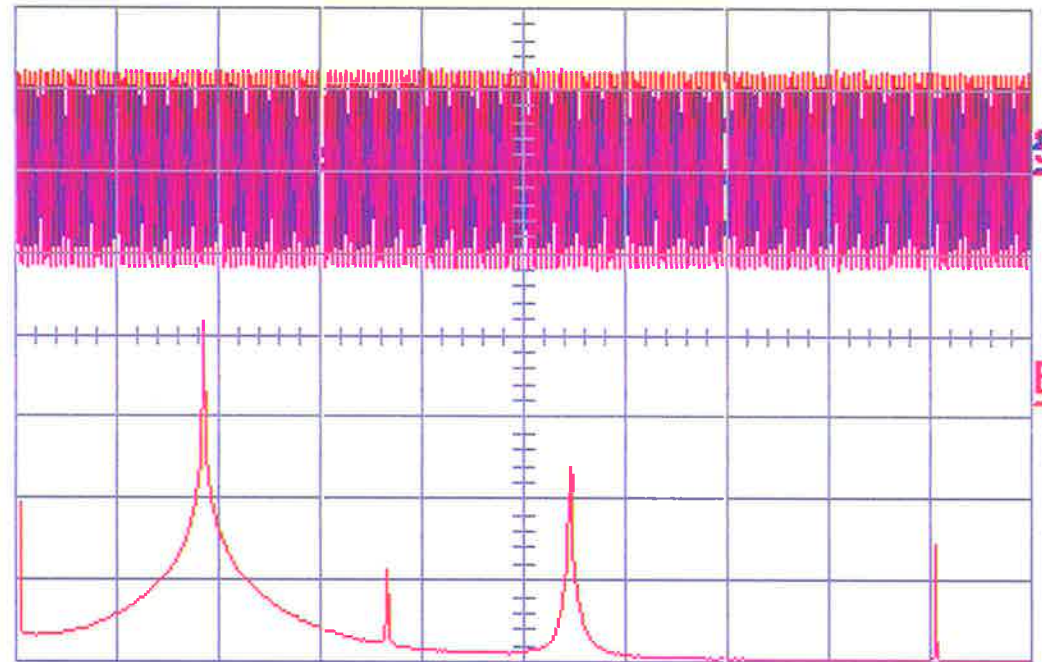
☐ NORMAL

3-Jan-23
14:02:40

3
10 μ s
2.00 V

4
10 μ s
2.00 V

B: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	178 sweeps:	average	low	high	sigma
phase(4,3)		100.43 °	91.20	108.23	2.34
pkpk(3)		4.92 V	4.56	5.19	0.13
rms(2)		41.3mV	39.1	43.0	0.9
rms(4)		1.262 V	1.189	1.322	0.032
rms(3)		1.537 V	1.448	1.603	0.036

10 μ s

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

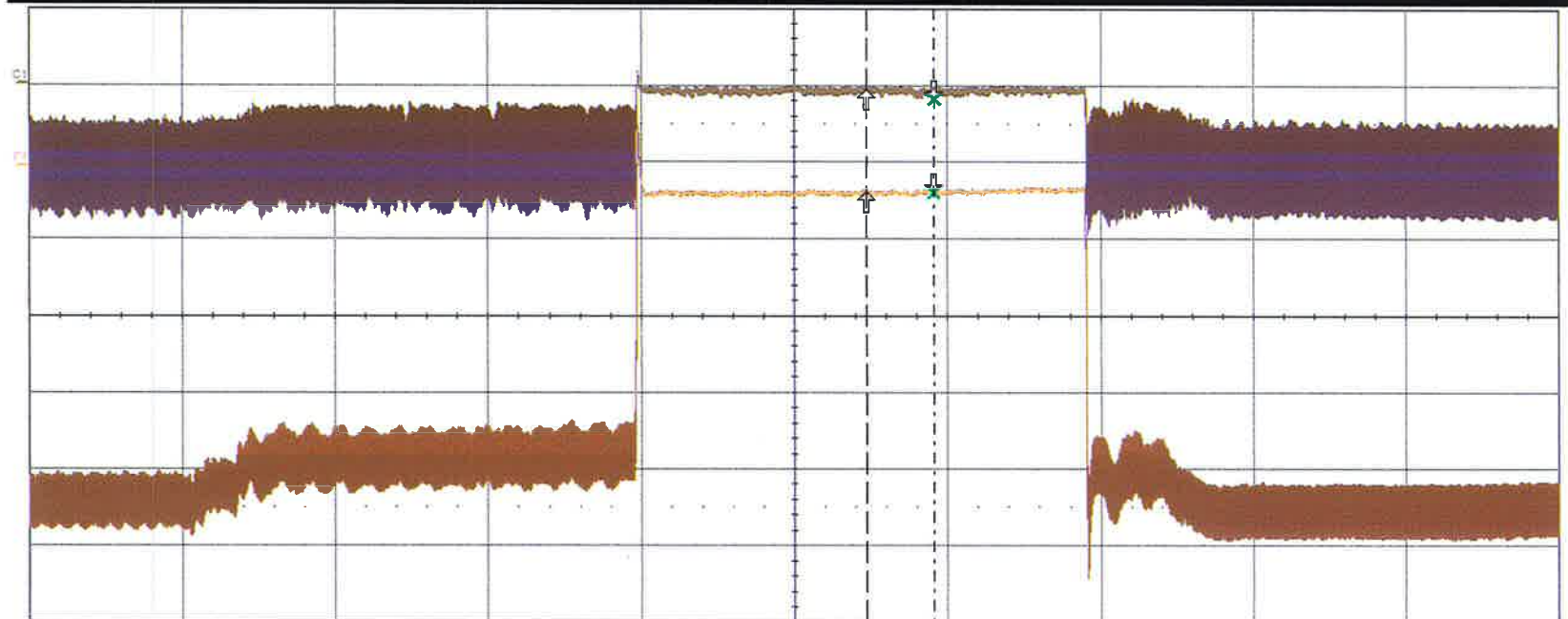


Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



Measure	P1:ampl(C1)	P2:ampl(C2)	P3:rms(C1)	P4:rms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	2.926 V	3.920 V	1.886 V	964.0 mV	279.5 mV	-2.6852 V		
mean	2.92795 V	3.90644 V	1.889966 V	966.127 mV	279.5 mV	-2.6852 V		
min	2.863 V	3.812 V	1.875 V	958.3 mV	279.5 mV	-2.6852 V		
max	2.990 V	4.016 V	1.911 V	973.4 mV	279.5 mV	-2.6852 V		
sdev	27.02 mV	46.68 mV	8.446 mV	3.500 mV				
num	68	68	68	68	1	1		
status	✓	✗	✓	✓	✓	✓		

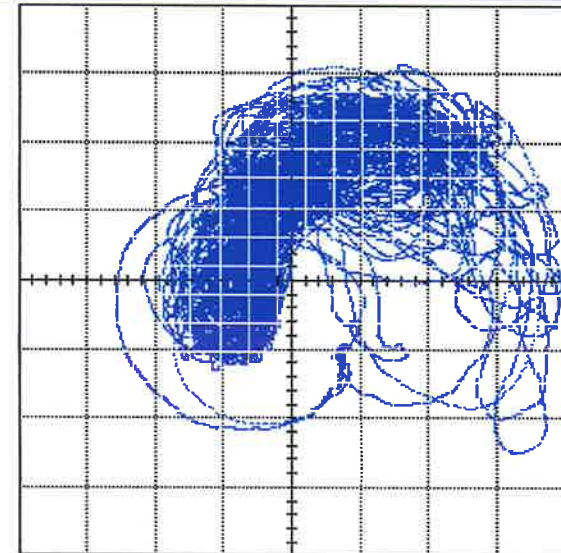
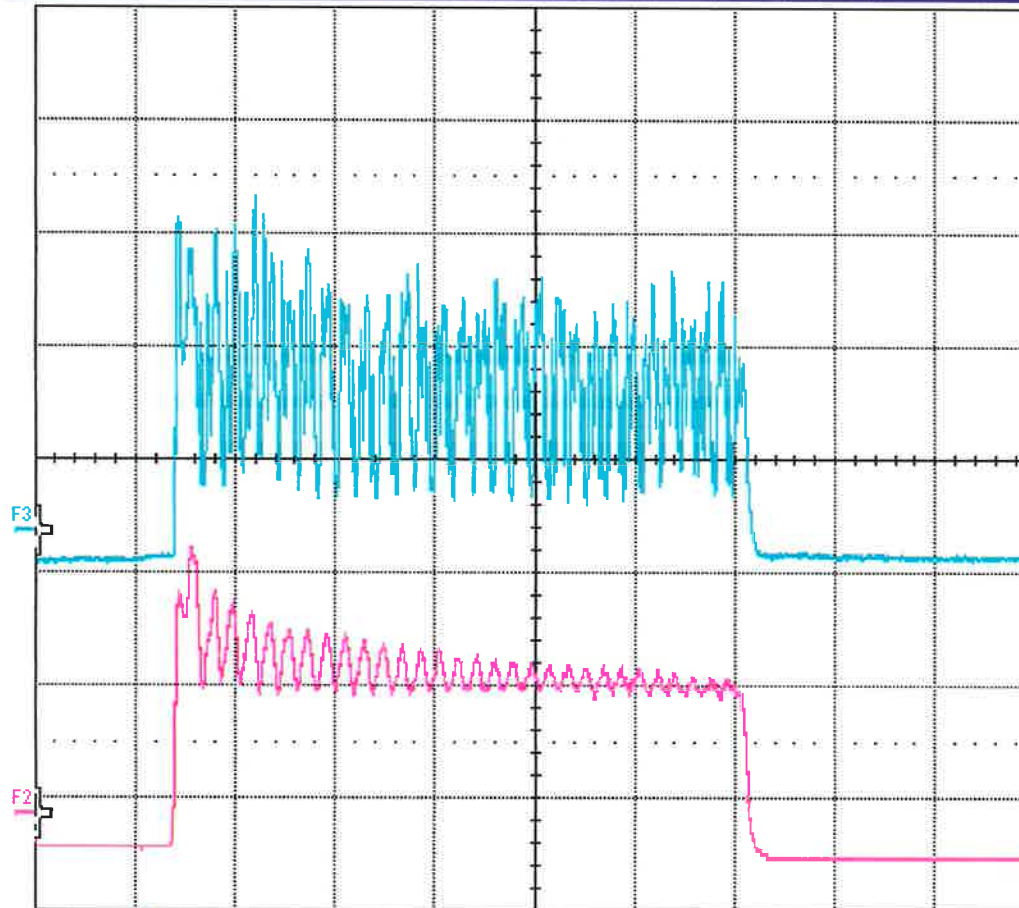
C1 DCIM 2.00 V/div 6.0200 V
F1 *C1* 500 mV/div 1.00 ms/div 68 #
-366.0 mV -168.41 mV
-150.3 mV -171.35 mV
dy 215.7 mV dy -2.94 mV

Tbase -4.00 ms Trigger C4 DC
1.00 ms/div Norm 640 mV
1 MS 100 MS/ Edge Negative
X1= 4.9101 ms ΔX= -435.51 μs
X2= 4.4746 ms 1/ΔX= -2.2962 kHz

Print Now

1/3/2023 2:12:17 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



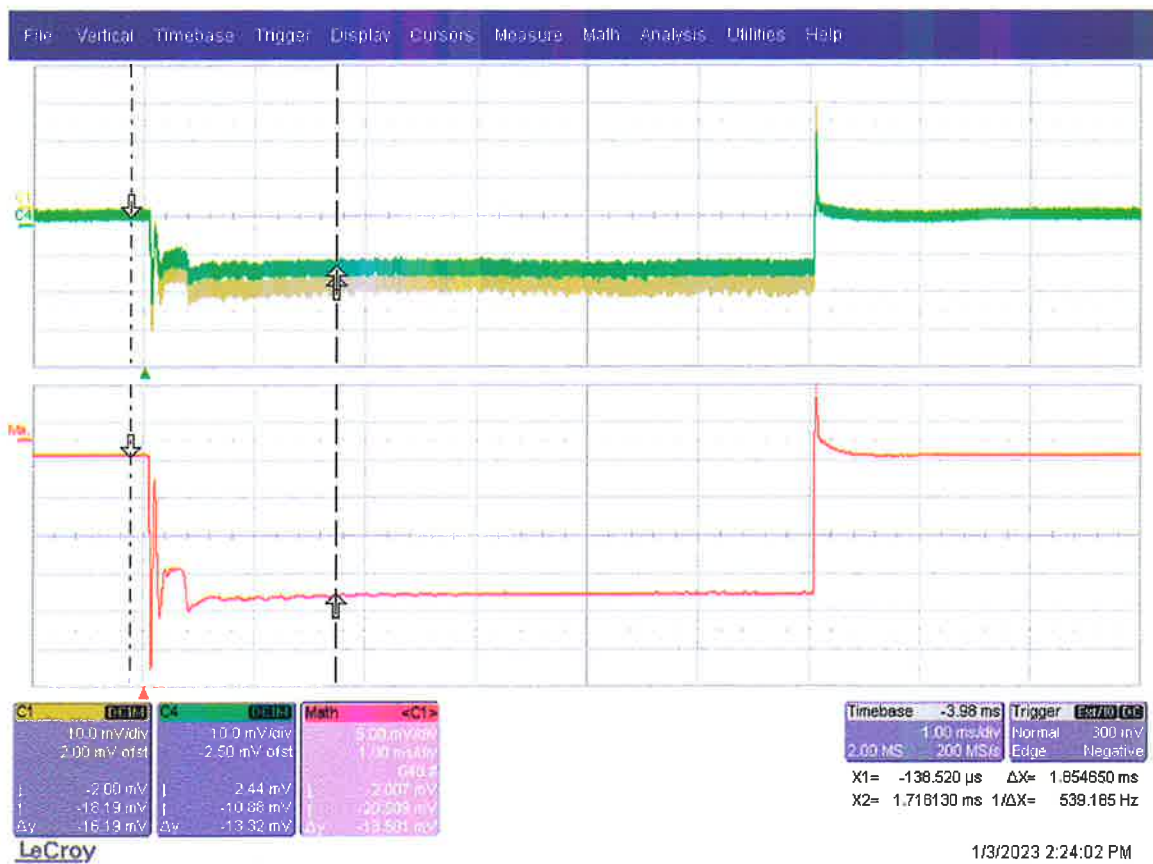
$\Delta Y/\Delta X =$ 0 $\Delta Y^* \Delta X =$ 0 V²
 0 dB Angle = 0 °
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X C2 Y C3
2.00/div	2.00/div	2.00/div		200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div		200 mV/div
324 #				

Tbase -3.98 ms Trigger Ext/10/DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

1/3/2023 2:24:12 PM



1/3/2023 2:24:02 PM

3-Jan-23
14:24:31

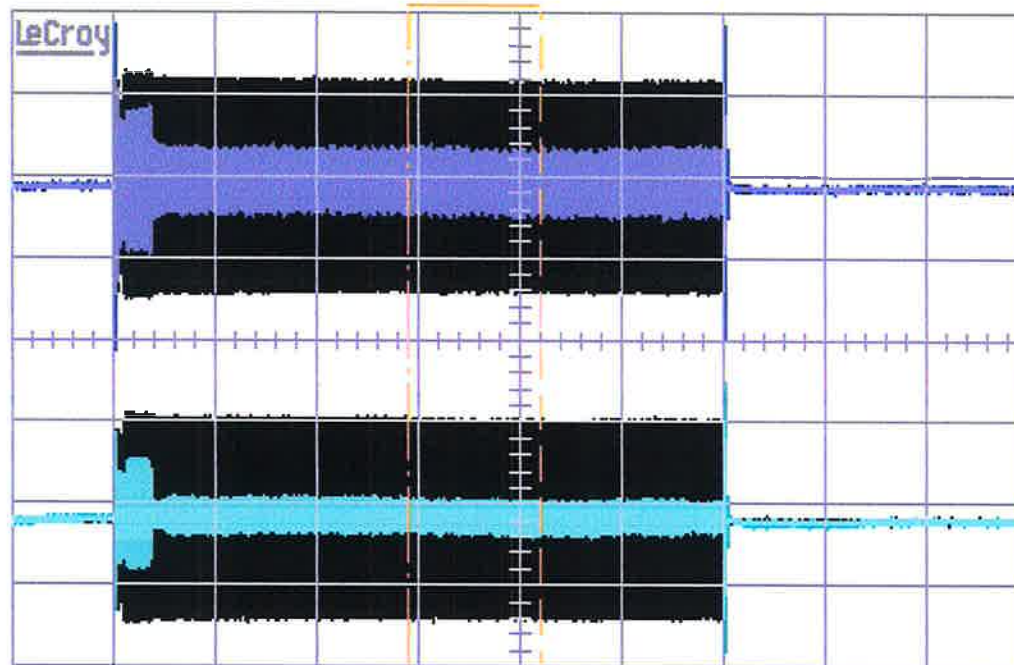
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

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



649 sweeps:

	average	low	high	sigma
rms(1)	452.3mV	447.6	456.4	2.0
rms(2)	56.6mV	53.8	59.5	1.1
rms(3)	425.7mV	421.5	428.5	1.6
rms(4)	30.0mV	27.6	31.8	0.7
phase(1,3)	76 °	71	82	2



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single Dual ☒
Quad Octal

10 MS/s

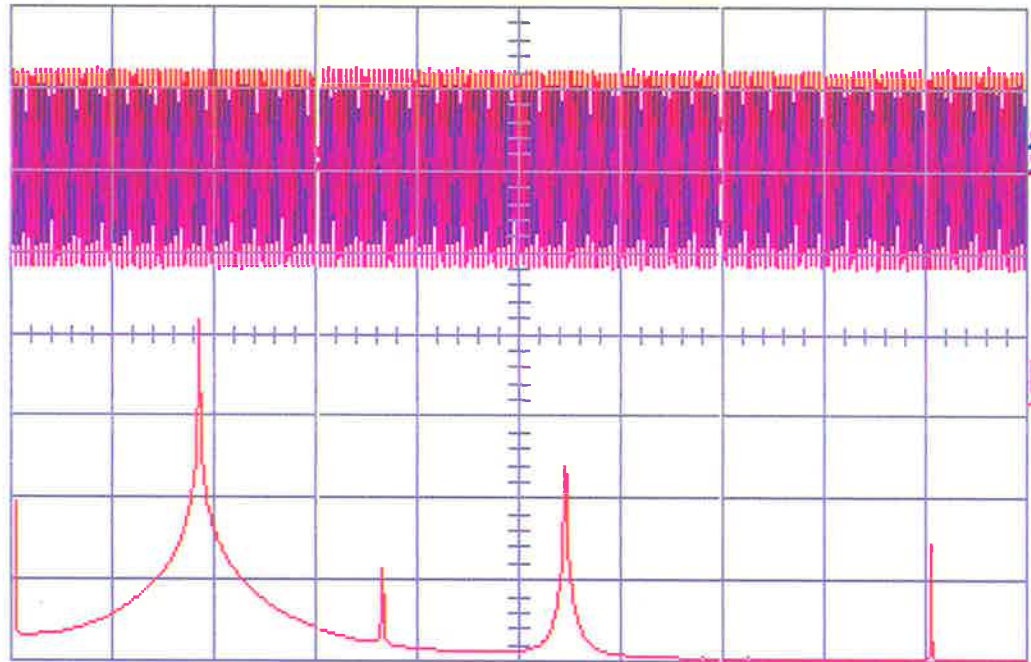
☐ NORMAL

3-Jan-23
14:24:35

3
10 μ s
2.00 V

4
10 μ s
2.00 V

3: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	646 sweeps:	average	low	high	sigma
phase(4,3)		102.63 °	93.97	110.48	1.89
pkpk(3)		4.96 V	4.88	5.13	0.04
rms(2)		42.8mV	41.7	44.2	0.5
rms(4)		1.255 V	1.237	1.275	0.007
rms(3)		1.550 V	1.532	1.572	0.007

10 μ s

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

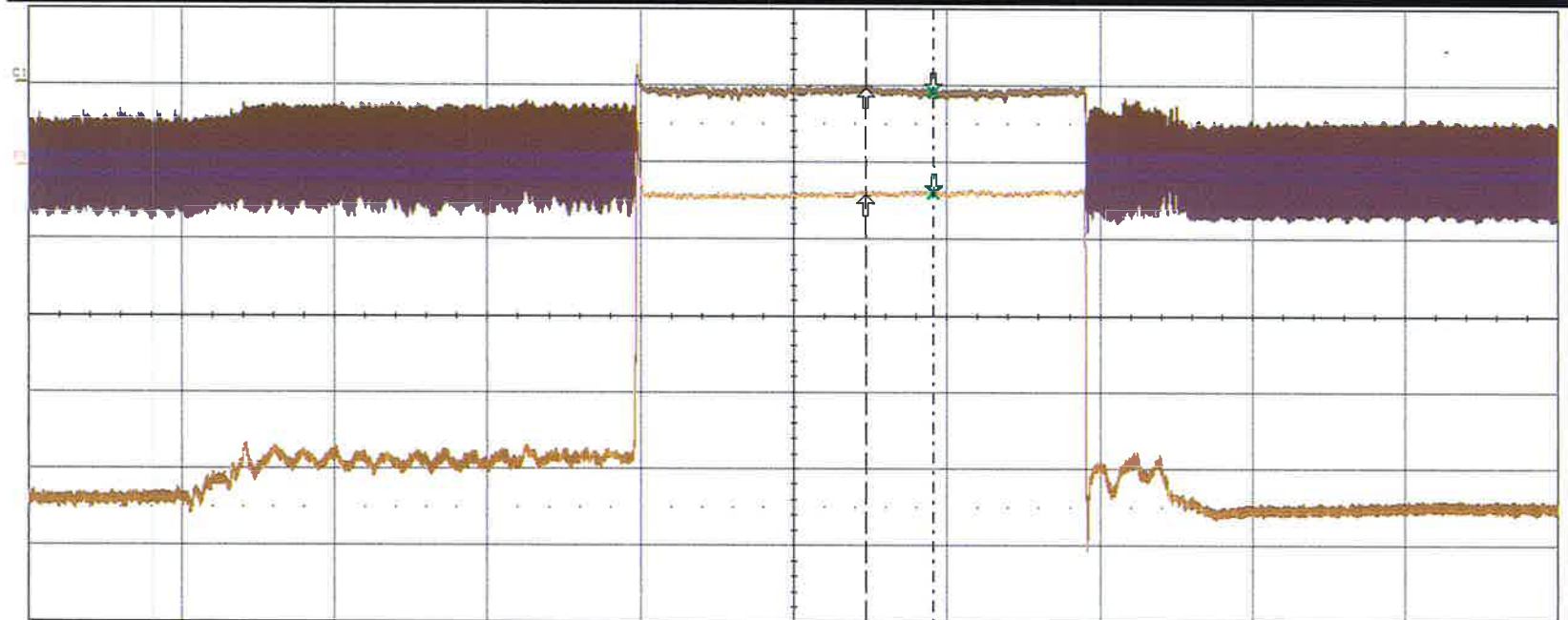


Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Support



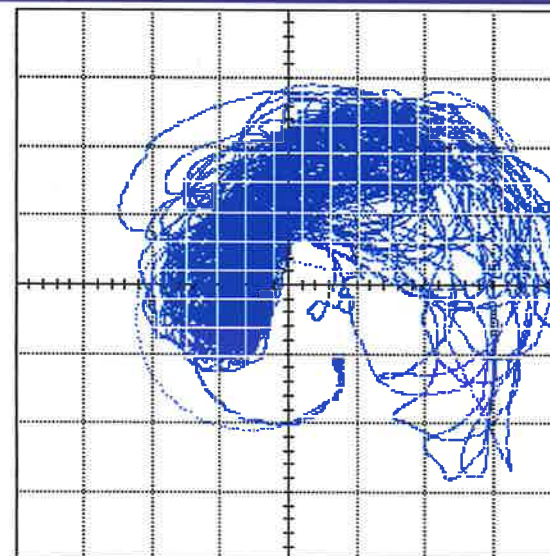
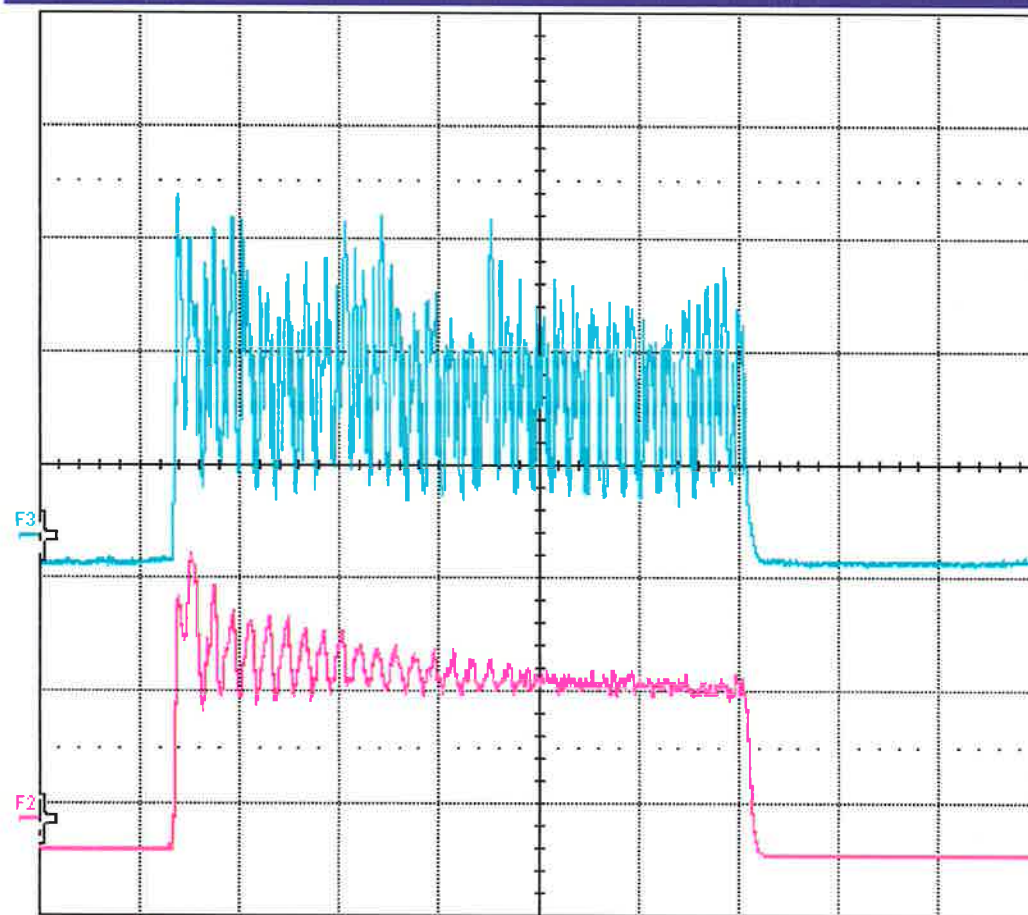
Measure	P1:ampl(C1)	P2:ampl(C2)	P3:rms(C1)	P4:rms(C2)	P5:max(F1)	P6:min(F1)	P7:---	P8:---
value	2.906 V	3.882 V	1.890 V	974.3 mV	289.5 mV	-2.5013 V		
mean	2.92689 V	3.91789 V	1.889443 V	970.697 mV	289.5 mV	-2.5013 V		
min	2.858 V	3.860 V	1.868 V	963.3 mV	289.5 mV	-2.5013 V		
max	2.978 V	4.024 V	1.903 V	978.7 mV	289.5 mV	-2.5013 V		
sdev	28.67 mV	41.77 mV	8.173 mV	3.757 mV				
num	38	38	38	38	1	1		
status	✓	✗	✓	✓	✓	✓		

C1	F1
DCIR	<C1>
2.00 V/div	500 mV/div
2.0200 V	1.00 ms/div
	39 #
-151.3 mV	-168.41 mV
-181.8 mV	-182.77 mV
Δy -20.5 mV	Δy -14.36 mV

Tbase	-4.00 ms	Trigger	C4 DC
1 MS	1.00 ms/div	Norm	840 mV
	100 MS/s	Edge	Negative
X1=	4.9101 ms	ΔX=	-435.51 μs
X2=	4.4746 ms	1/ΔX=	-2.2962 kHz

Print Now

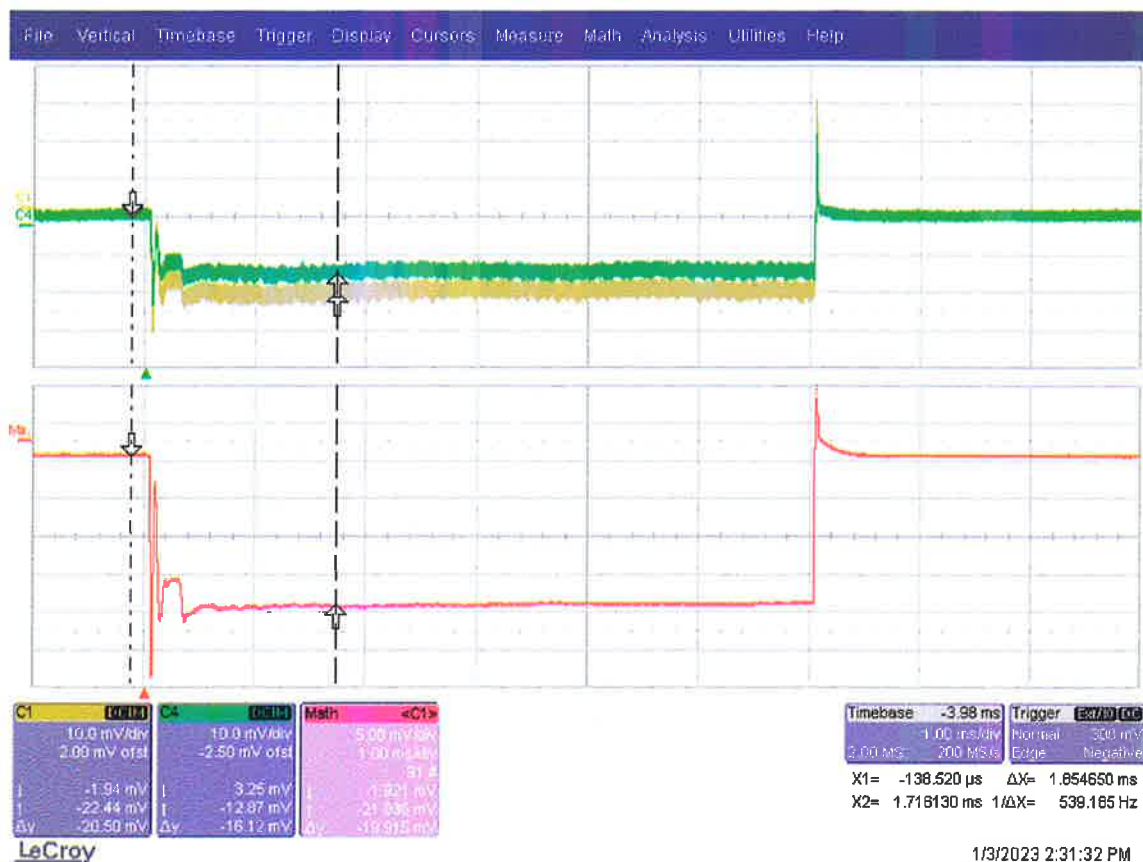
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$\Delta Y/\Delta X = 0$ $\Delta Y^* \Delta X = 0 \text{ V}^2$
 0 dB Angle = 0°
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X:C2 Y:C3
2.00/div	2.00/div	2.00/div	200 mV/div	200 mV/div
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	200 mV/div
118 #				

Tbase	-3.98 ms	Trigger Ext/10 DC
	1.00 ms/div	Normal 130 mV
100 kS	10 MS/s	Edge Negative
X1 =	-1.0200 ms	



1/3/2023 2:31:32 PM

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14:32:01

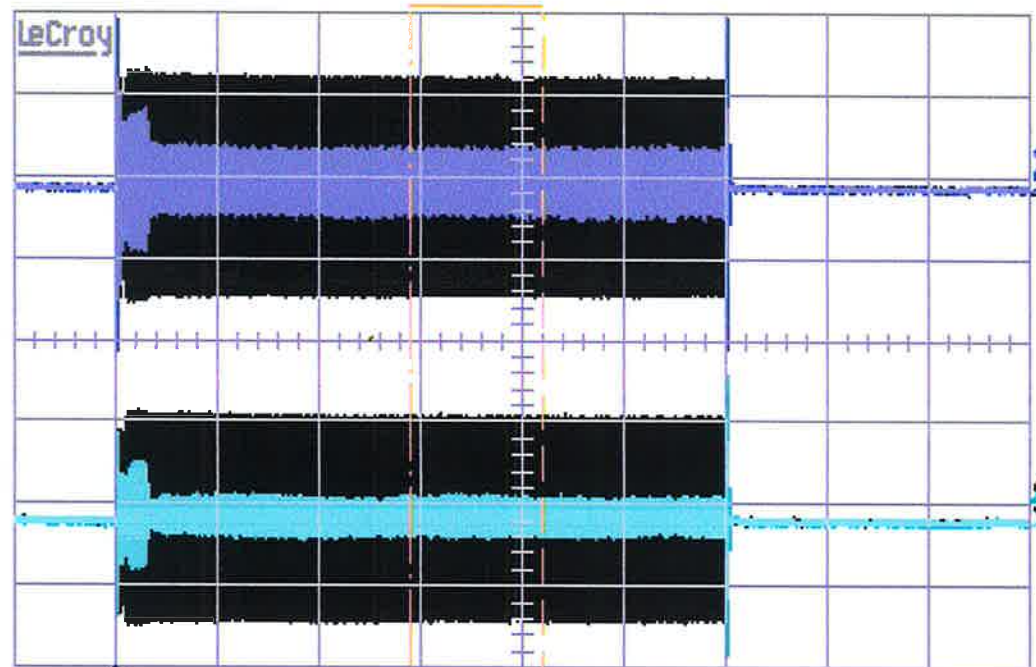
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200 mV

2
1 ms
200 mV

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



149 sweeps: average low high sigma
rms(1) 463.5mV 460.9 465.7 1.3
rms(2) 58.1mV 56.6 59.7 0.7
rms(3) 432.4mV 430.2 434.2 1.0
rms(4) 32.3mV 30.4 33.9 0.7
phase(1,3) 75 ° 70 82 1



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

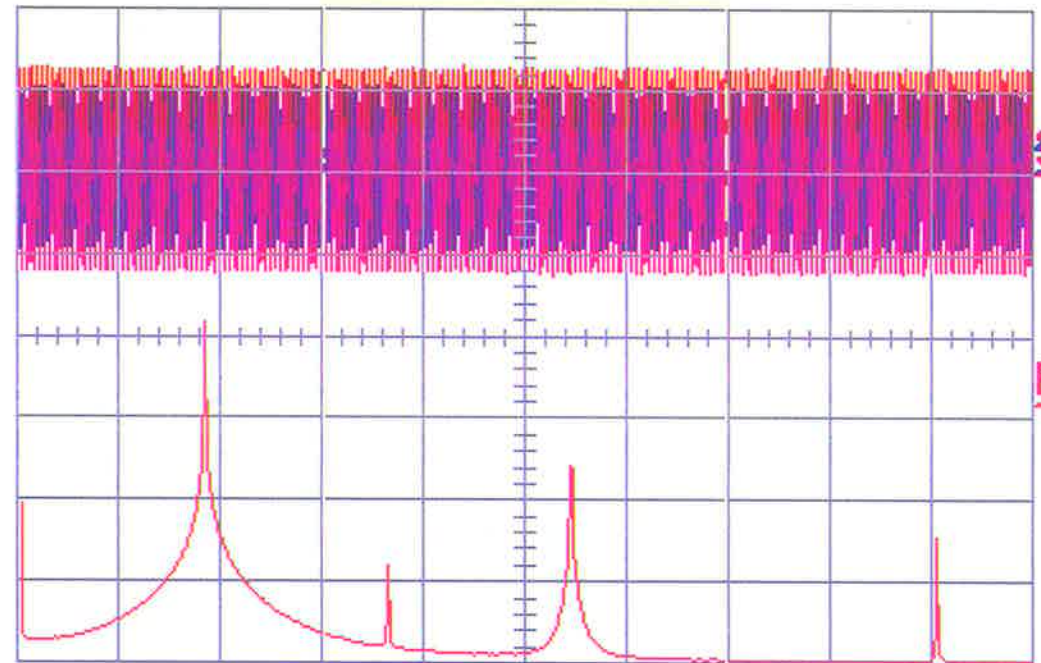
10 MS/s

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3-Jan-23
14:32:05

3
10 μ s
2.00 V

4
10 μ s
2.00 V
B: Average(A)
1 MHz
=15.0 dBm==



← 1.900 ms

	238 sweeps:	average	low	high	sigma
phase(4,3)		103.55 °	95.96	110.83	1.90
pkpk(3)		5.08 V	5.00	5.19	0.04
rms(2)		44.3mV	43.2	45.3	0.4
rms(4)		1.281 V	1.265	1.299	0.008
rms(3)		1.582 V	1.566	1.596	0.007

10 μ s

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

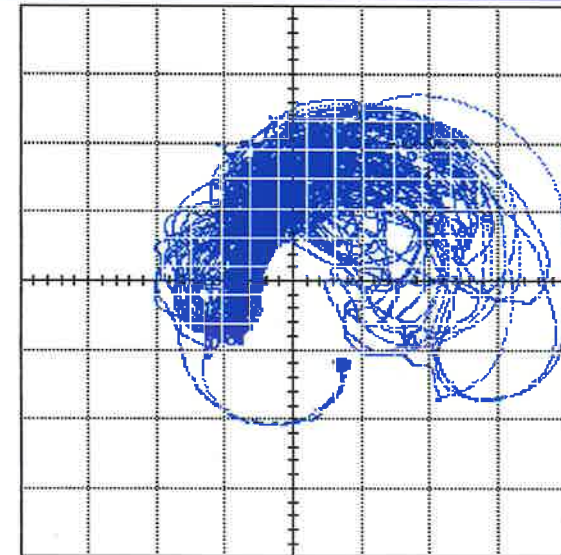
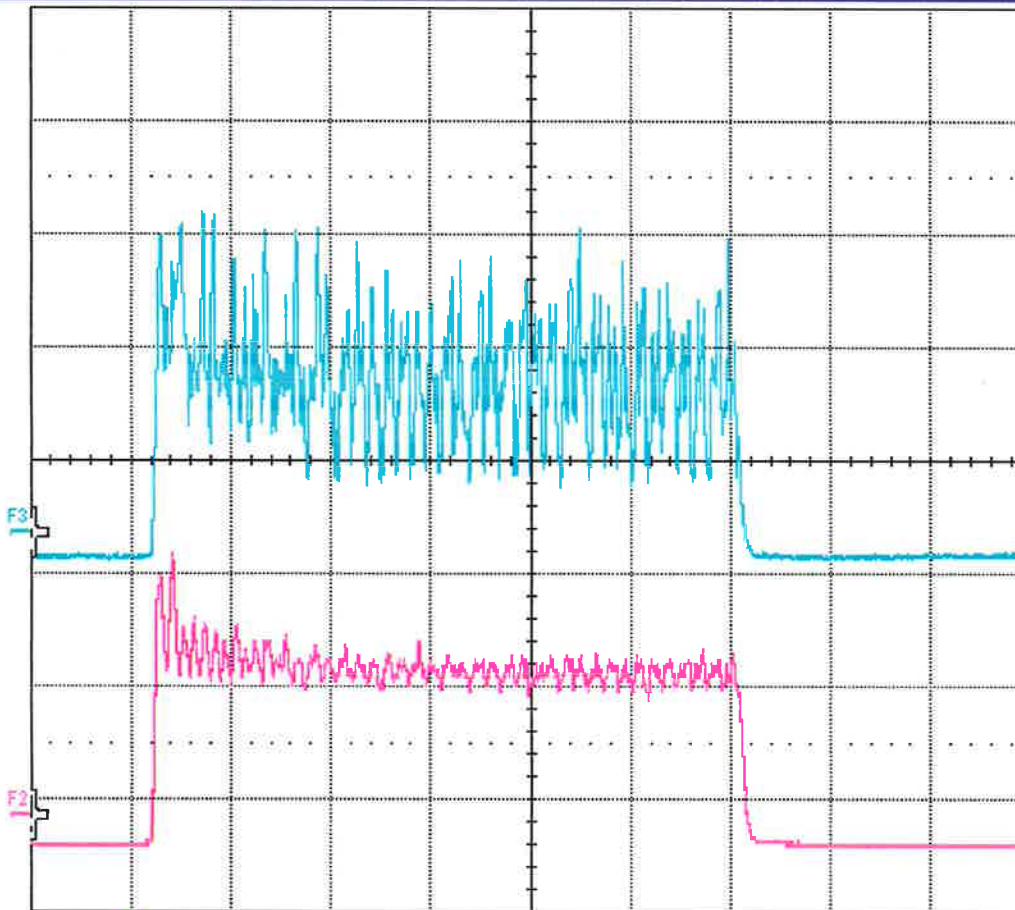


Ext10 DC 0.15 V 50 Ω

1 GS/s

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File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



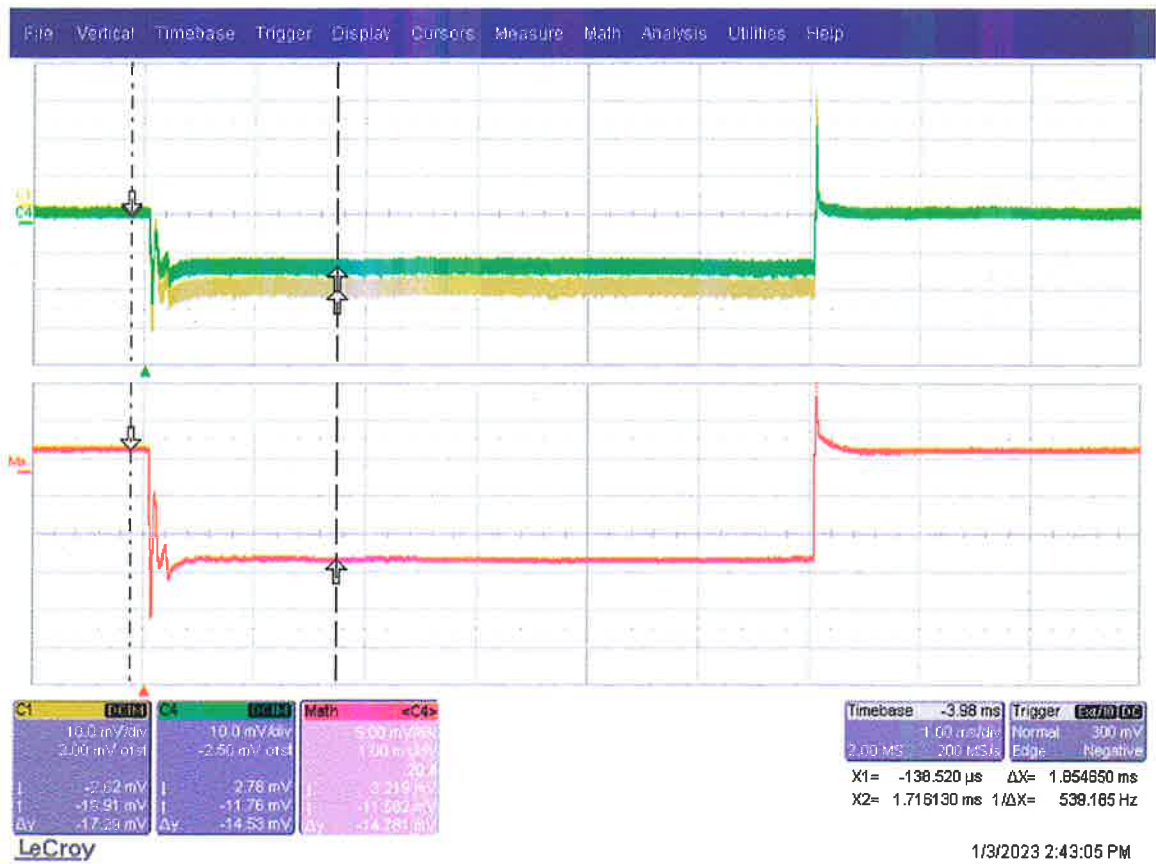
$\Delta Y/\Delta X = 0$ $\Delta Y * \Delta X = 0 V^2$
 0 dB Angle = 0°
 Radius = 0 V

F2	<F3>	F3 script(C3,C2)	XY	X: C2 Y: C3
2.00/div	2.00/div	2.00/div	200 mV/div	---
1.00 ms/div	1.00 ms/div	1.00 ms/div	200 mV/div	---
45 #				

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 100 kS 10 MS/s Edge Negative
 X1= -1.0200 ms

LeCroy

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3-Jan-23
14:43:33

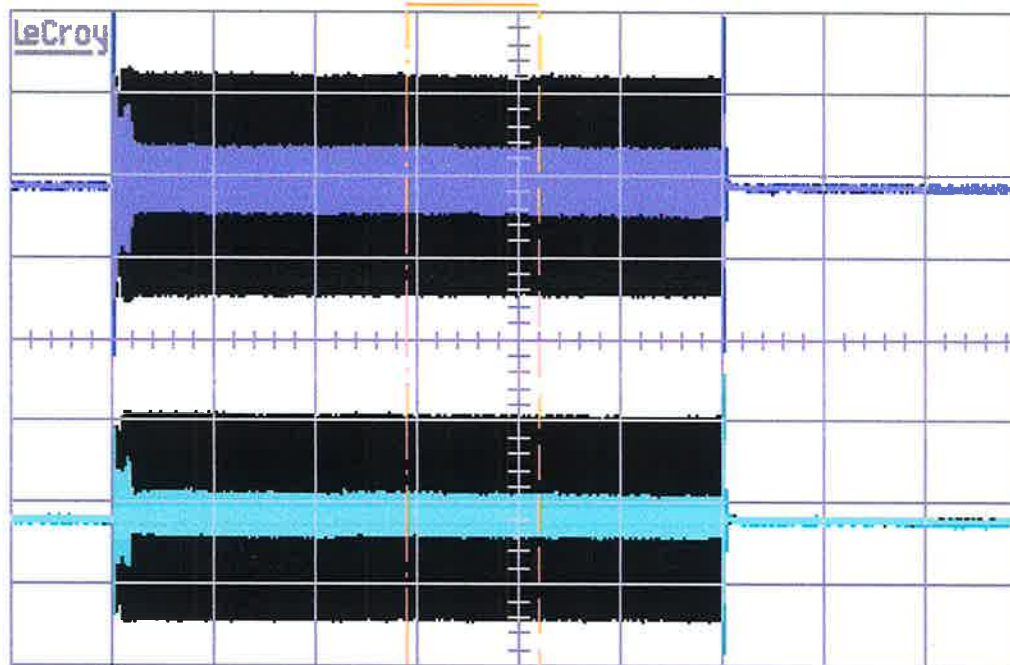
1
1 ms
0.50 V

3
1 ms
0.50 V

4
1 ms
200mV

2
1 ms
200mV

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



89 sweeps: average low high sigma
rms(1) 465.2mV 462.4 467.0 1.3
rms(2) 57.1mV 56.3 57.9 0.3
rms(3) 432.3mV 429.9 433.6 1.1
rms(4) 34.0mV 32.7 35.1 0.5
phase(1,3) 74 ° 70 80 1



Ext10 DC 0.50 V 50Ω

CHANNEL 2

Trace
OFF ☒ On

Coupling

ZOOM

FIND

Gain
Fixed ☒ variable

Offsets in
Volts
Divisions ☒

Grids
Single ☒ Dual
Quad Octal

10 MS/s

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