

14-Nov-22
13:07:01

1
1 ms
0.50 V

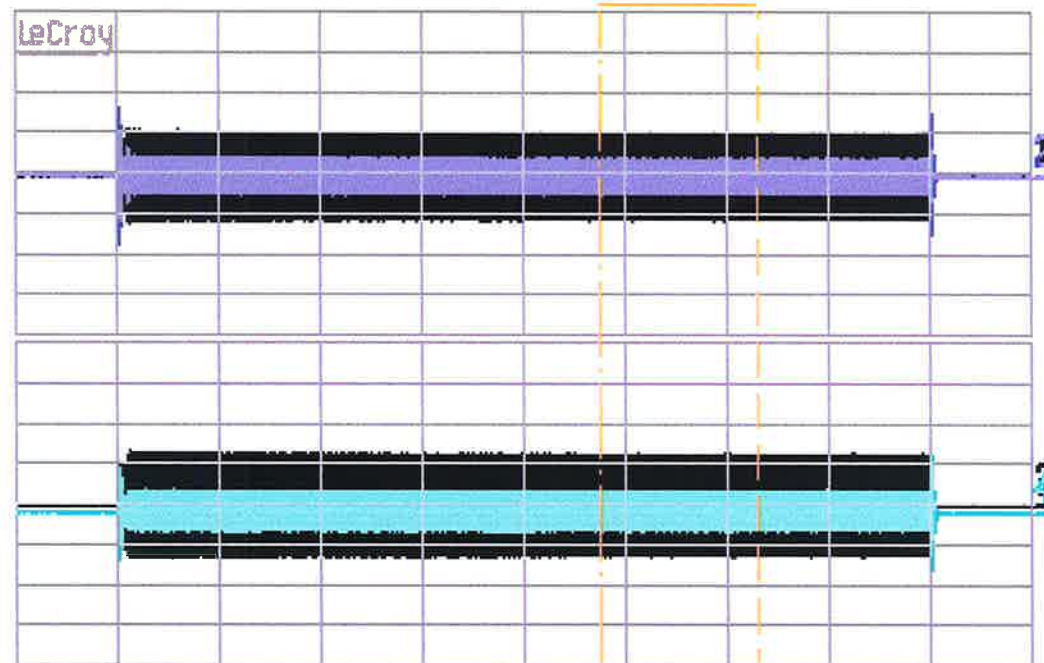
2
1 ms
200 mV

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



7 sweeps: average low high sigma
rms(1) 382.3mV 381.1 383.2 0.8
rms(2) 60.0mV 60.0 60.1 0.1
rms(3) 438.5mV 437.4 439.5 0.8
rms(4) 70.5mV 70.4 70.7 0.1
phase(1,3) 80 ° 76 85 2



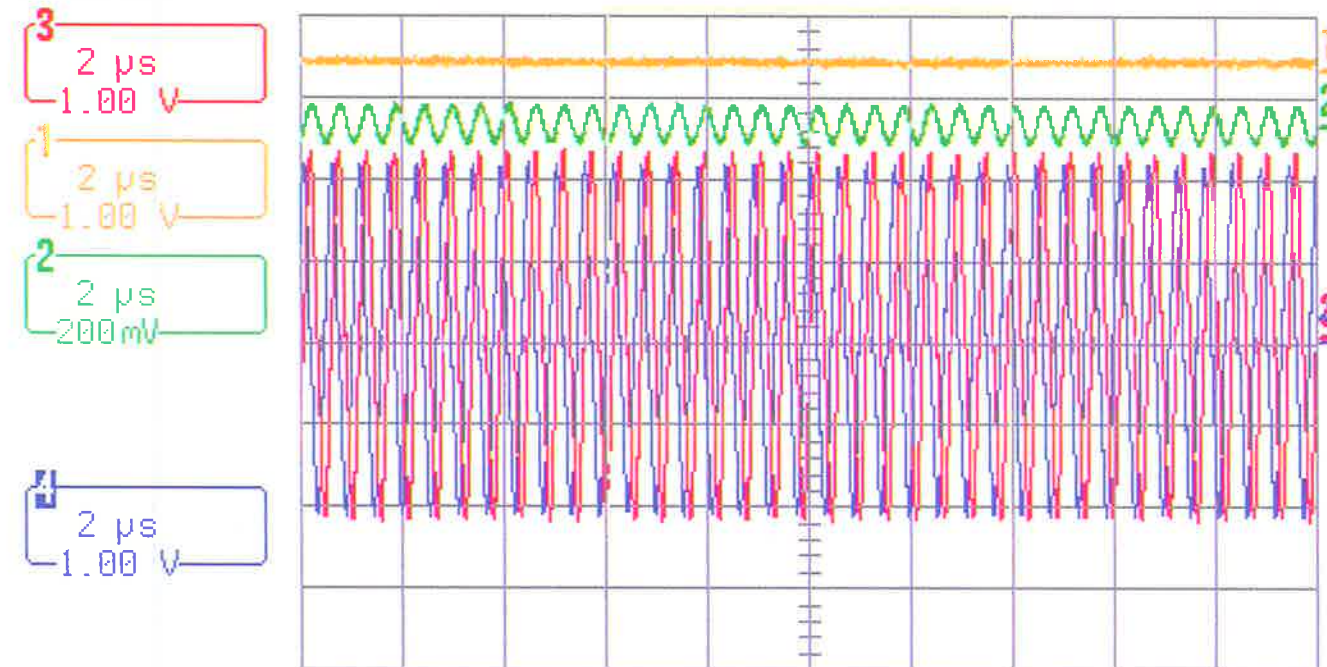
Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

14-Nov-22

13:07:07



← 1.0000 ms

	64 sweeps:	average	low	high	sigma
phase(4,3)		91.36 °	88.37	94.38	0.98
pkpk(3)		4.52 V	4.50	4.63	0.03
rms(2)		30.1 mV	29.8	30.3	0.1
rms(4)		1.399 V	1.388	1.414	0.007
rms(3)		1.478 V	1.467	1.500	0.007

2 μ s

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

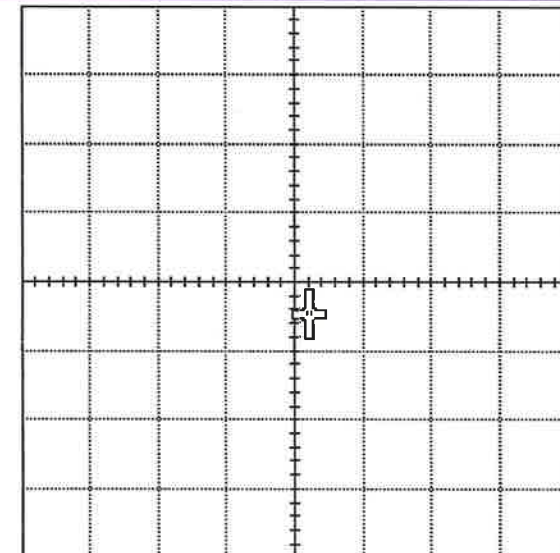
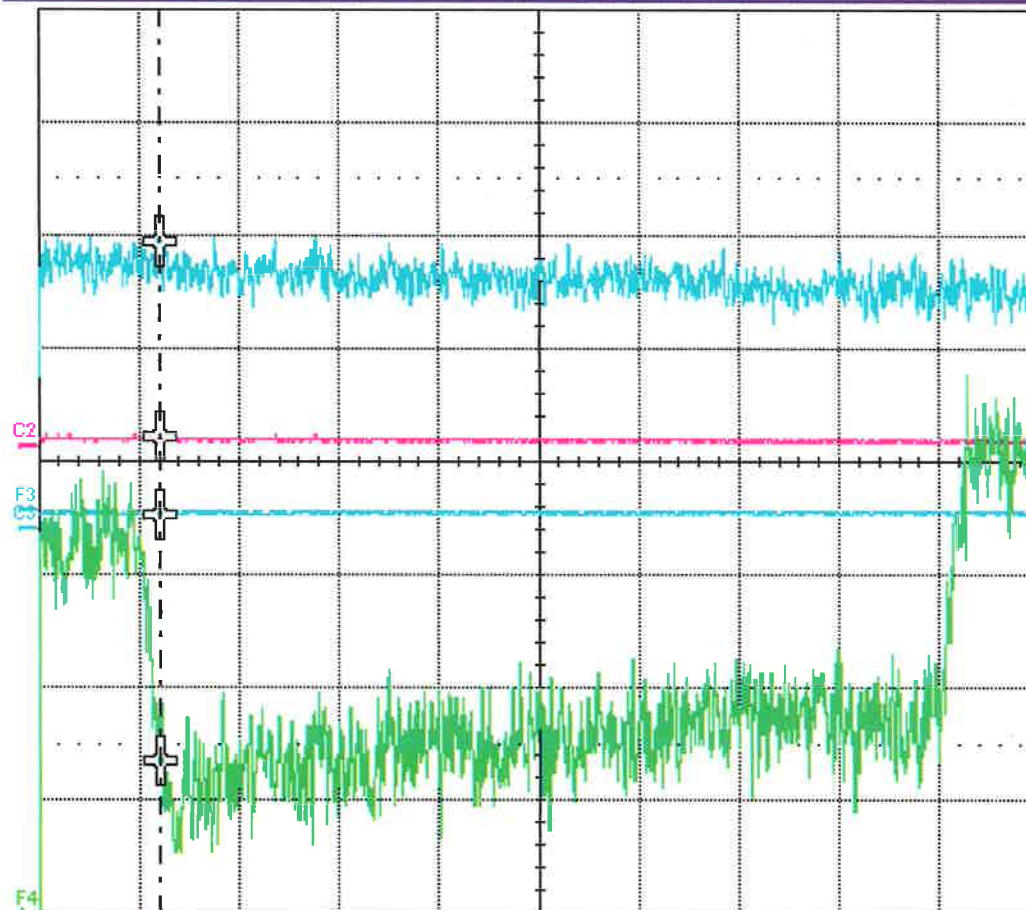


Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



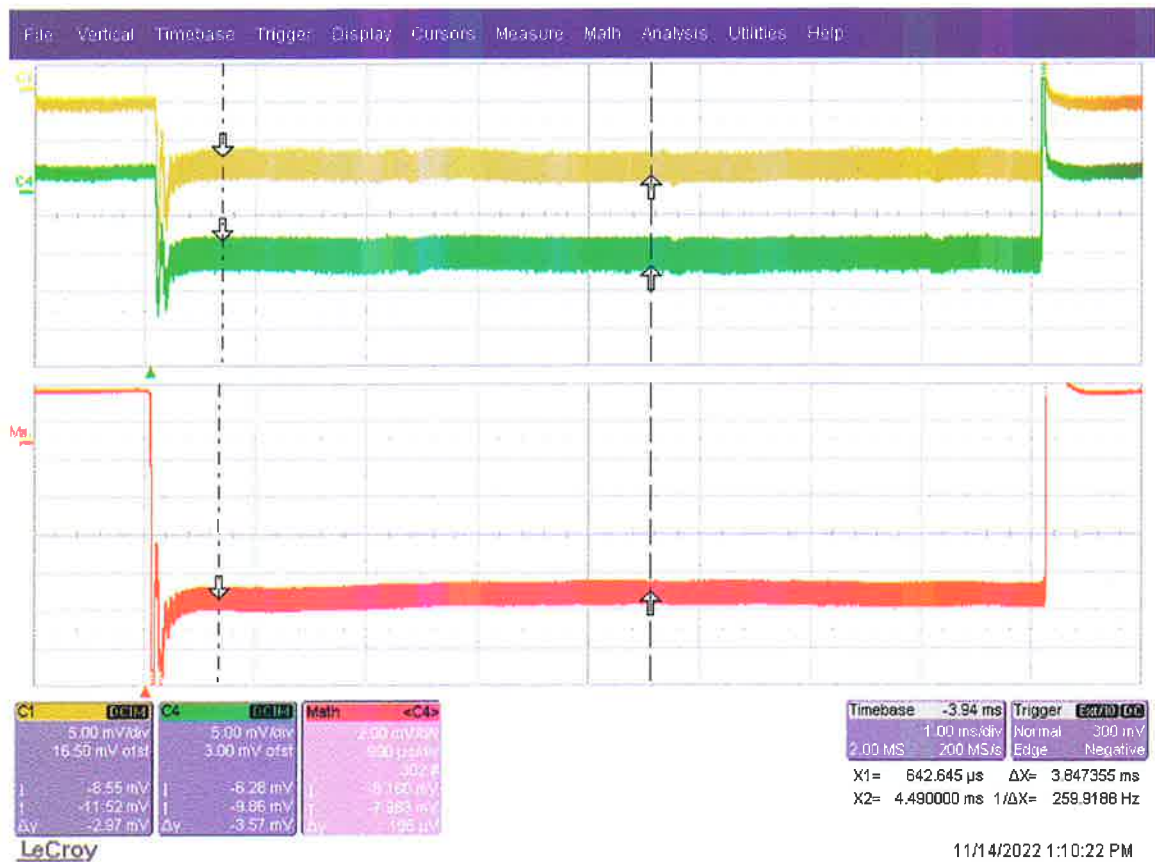
$\Delta Y/\Delta X = -2.15$ $\Delta Y * \Delta X = -100 \text{ mV}^2$
 6.6 dB Angle = -65.1°
 Radius = 512 mV

C2	FLT DC1M	C3	FLT DC1M	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	1.00 V/div	500e-3/div	10.0e-3/div	1.00 ms/div	1.00 ms/div	1.00 V/div	1.00 V/div	1.00 V/div
130.0 mV	-590.0 mV		1.00 ms/div	430 #					
85.7 mV	126.0 mV	1.1883	1.06721						

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 10.0 kS 1.0 MS/s Edge Negative
 X1= 180 μs

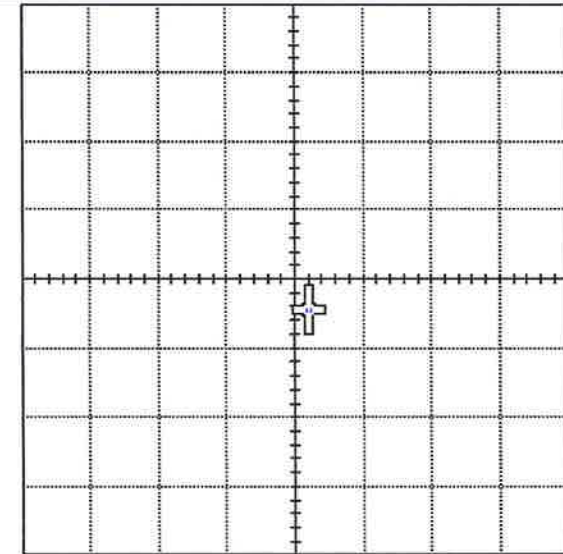
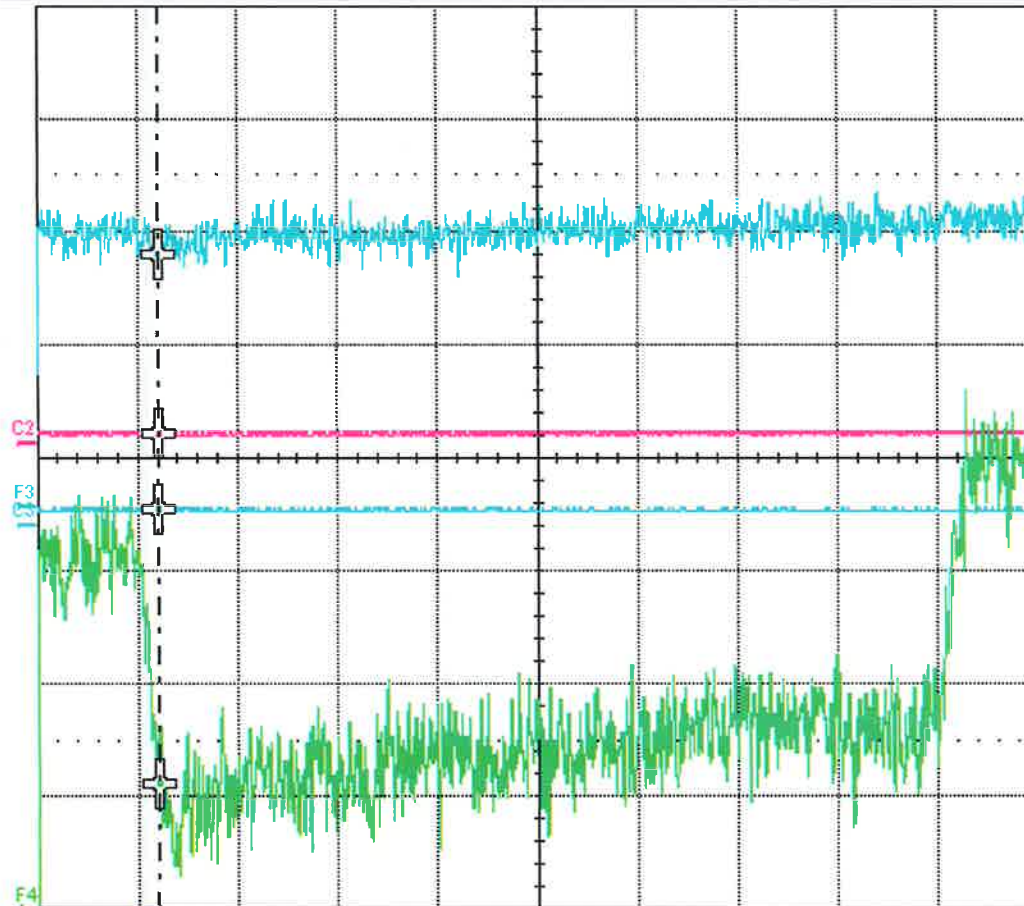
LeCroy

11/14/2022 1:10:09 PM



11/14/2022 1:10:22 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = -2.08$ $\Delta Y^* \Delta X = -95 \text{ mV}^2$
 6.3 dB Angle = -64.3°
 Radius = 494 mV

C2	FLT DC1M	C3	FLT DC1M	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	1.00 V/div	500e-3/div	10.0e-3/div	1.00 ms/div	1.00 ms/div	1.00 V/div	1.00 V/div	1.00 V/div
130.0 mV	-590.0 mV	1.00 ms/div	439 #				84.2 mV	144.8 mV	
84.2 mV	144.8 mV	1.1169	1.06491						

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 10.0 kS 1.0 MS/s Edge Negative
 X1= 180 μs

LeCroy

11/14/2022 1:10:19 PM

14-Nov-22
13:10:28

1
1 ms
0.50 V

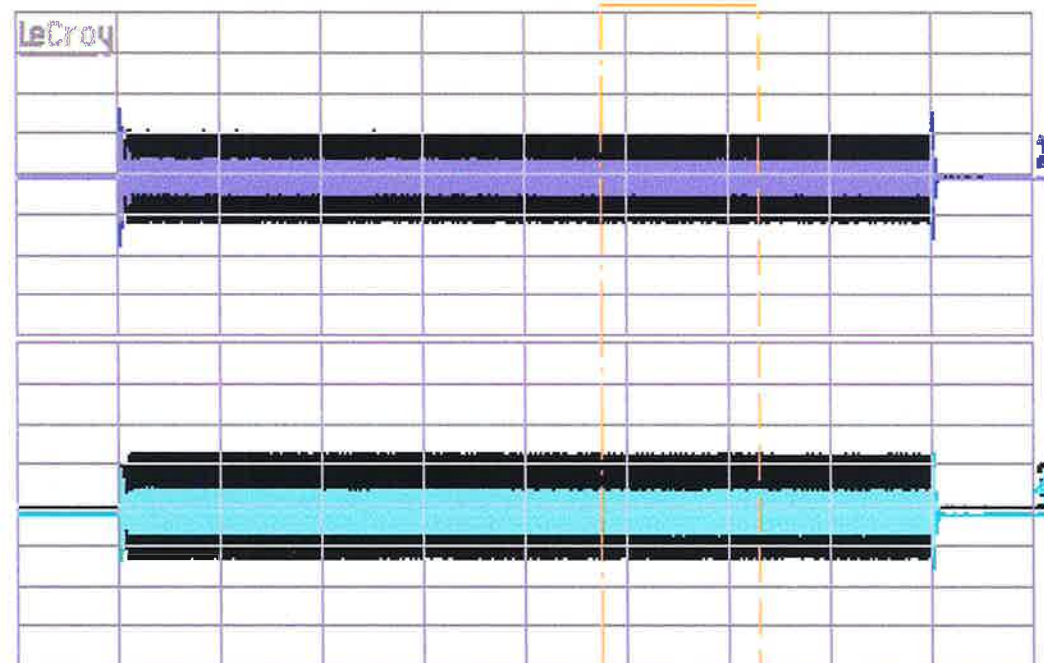
2
1 ms
200 mV

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



214 sweeps:

	average	low	high	sigma
rms(1)	385.2mV	380.9	390.7	3.0
rms(2)	58.3mV	56.6	60.9	1.2
rms(3)	441.3mV	437.0	446.9	3.0
rms(4)	73.8mV	70.4	77.6	2.0
phase(1,3)	80 °	75	86	2



Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

14-Nov-22

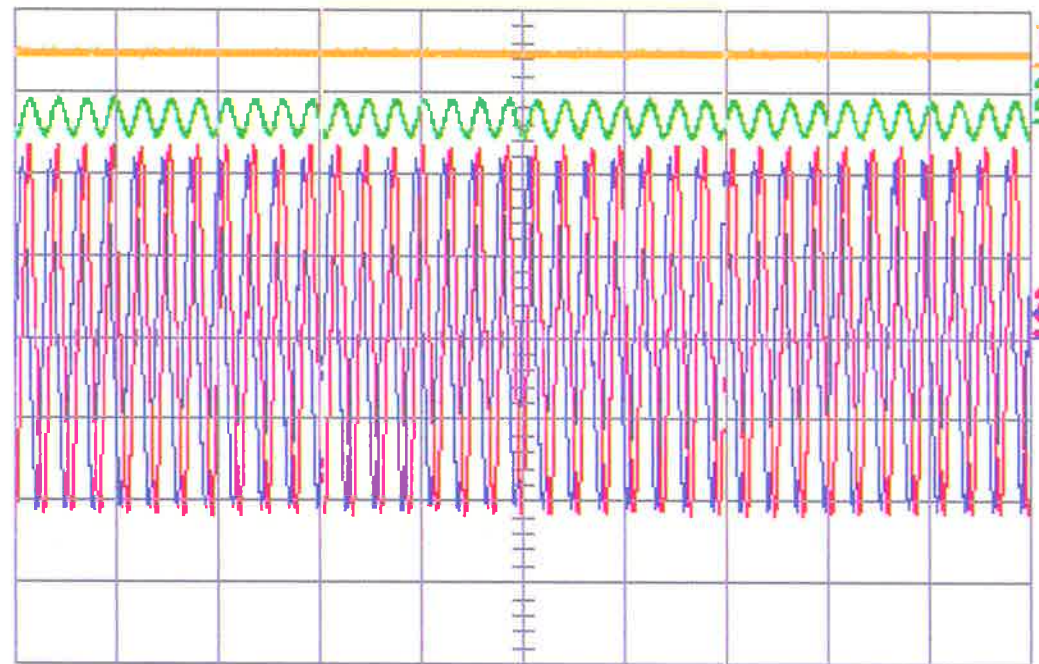
13:10:34

3
2 μ s
1.00 V

1
2 μ s
1.00 V

2
2 μ s
200 mV

4
2 μ s
1.00 V



← 1.0000 ms

	271 sweeps:	average	low	high	sigma
phase(4,3)		90.98 °	87.66	94.38	1.06
pkpk(3)		4.53 V	4.44	4.63	0.03
rms(2)		30.0 mV	29.4	30.7	0.2
rms(4)		1.395 V	1.376	1.418	0.009
rms(3)		1.479 V	1.454	1.506	0.010

2 μ s

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

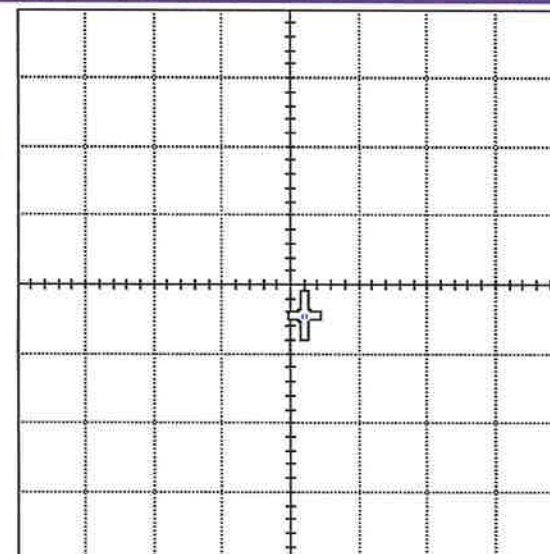
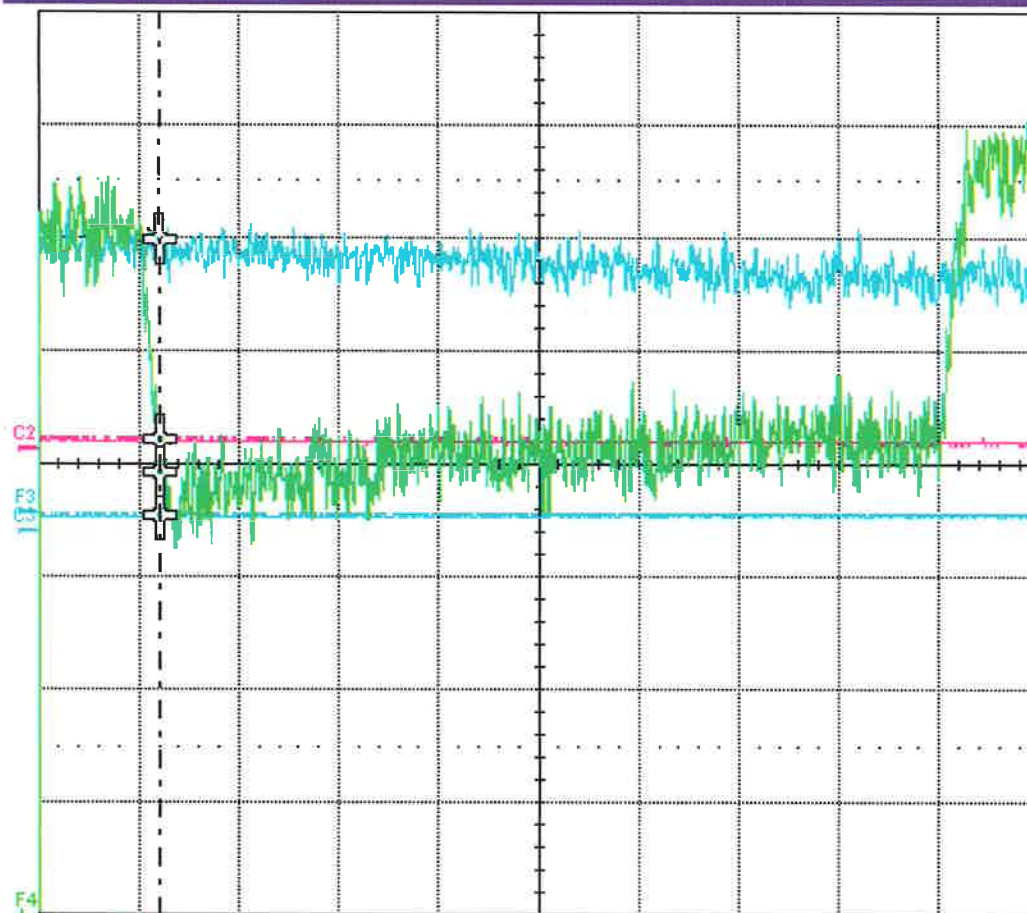


Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = -2.07$ $\Delta Y^* \Delta X = -102 \text{ mV}^2$
 6.3 dB Angle = -64.2°
 Radius = 510 mV

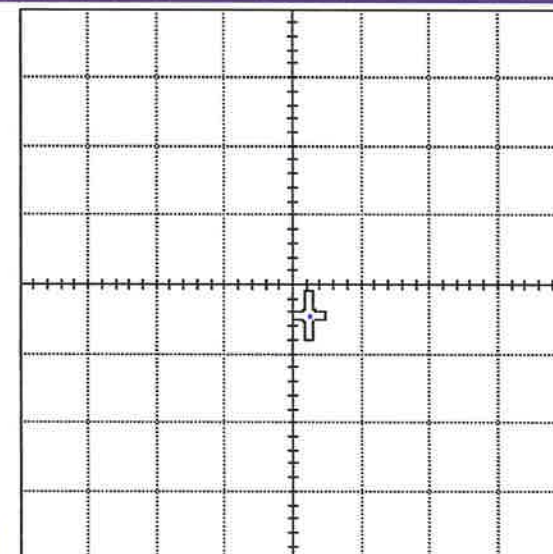
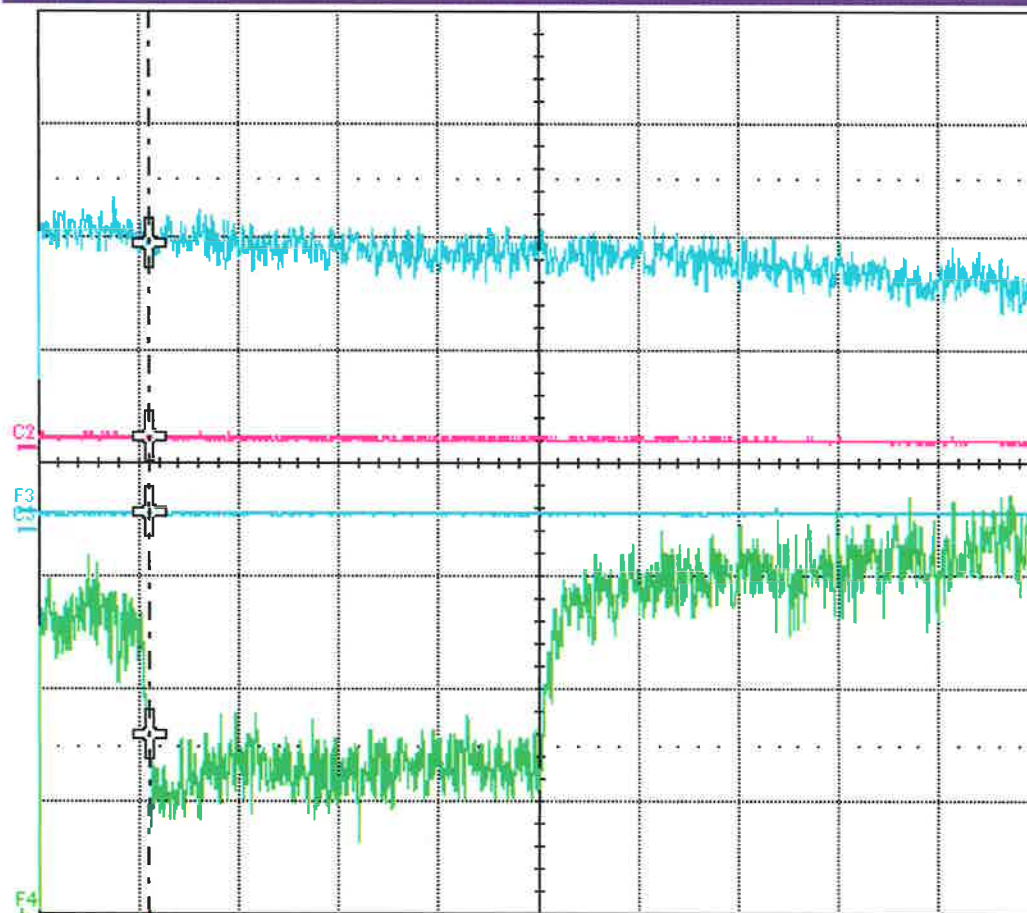
C2	FLT DC1M	C3	FLT DC1M	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	1.00 V/div	500e-3/div	10.0e-3/div	1.00 ms/div	1.00 ms/div	1.00 ms/div	1.00 V/div	1.00 V/div
130.0 mV	-590.0 mV			748 #					
92.1 mV	131.0 mV	1.2026	1.00396						

Tbase -3.98 ms Trigger Ext/10 DC
 1.00 ms/div Normal 130 mV
 10.0 kS 1.0 MS/s Edge Negative
 X1= 180 μs

LeCroy

11/14/2022 1:15:30 PM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



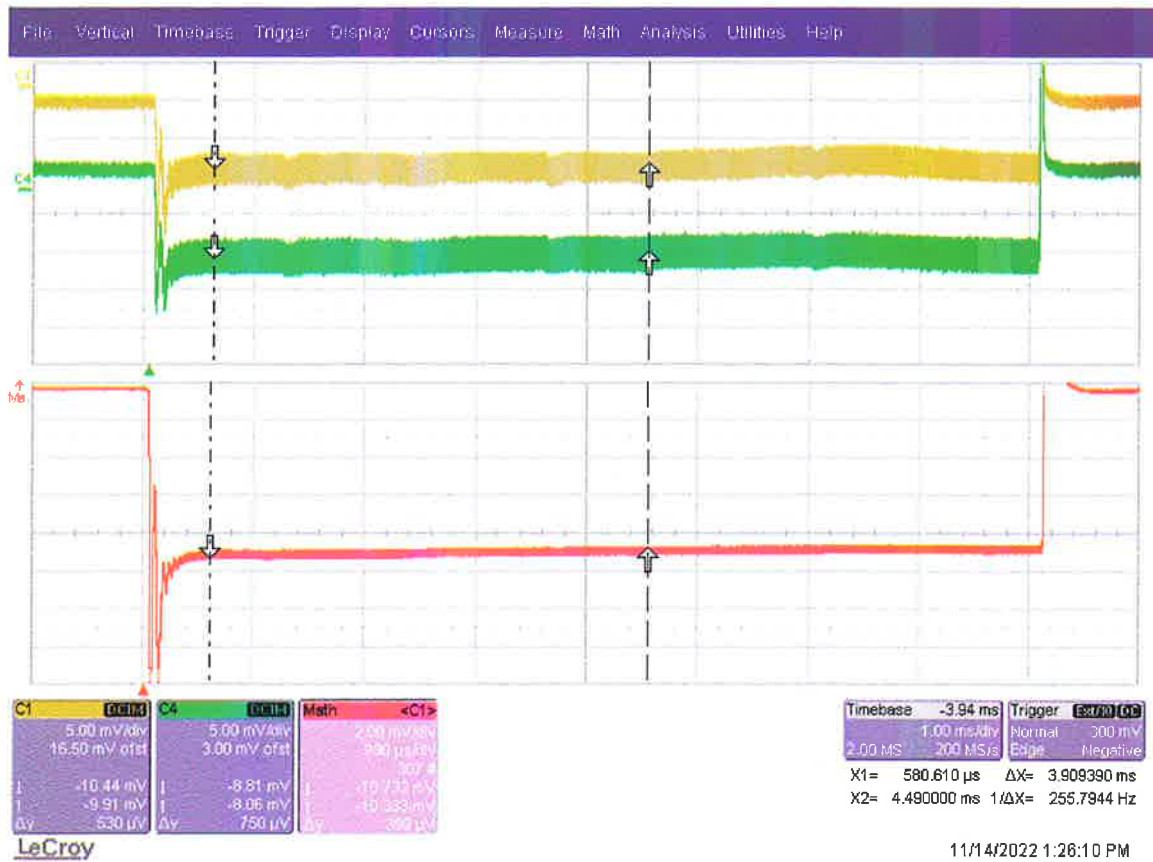
$\Delta Y/\Delta X = -1.87$ $\Delta Y^* \Delta X = -102 \text{ mV}^2$
 5.4 dB $\text{Angle} = -61.9^\circ$
 Radius = 496 mV

C2	C3	F3	F4	XY
FLT DC1M	FLT DC1M	script(C3,C2)	<F3>	X:C2 Y:C3
1.00 V/div	1.00 V/div	500e-3/div	20.0e-3/div	1.00 V/div
130.0 mV	-590.0 mV	2.00 ms/div	2.00 ms/div	1.00 V/div
48.4 mV	177.9 mV	855.8e-3	781.43e-3	48.4 mV
				177.9 mV

Tbase -7.96 ms TriggerExt/10 DC
 2.00 ms/div Normal 130 mV
 10.0 kS 500 kS/s Edge Negative
 X1= 180 μs

LeCroy

11/14/2022 1:26:05 PM



11/14/2022 1:26:10 PM

14-Nov-22
13:26:13

1

1 ms
0.50 V

2

1 ms
200mV

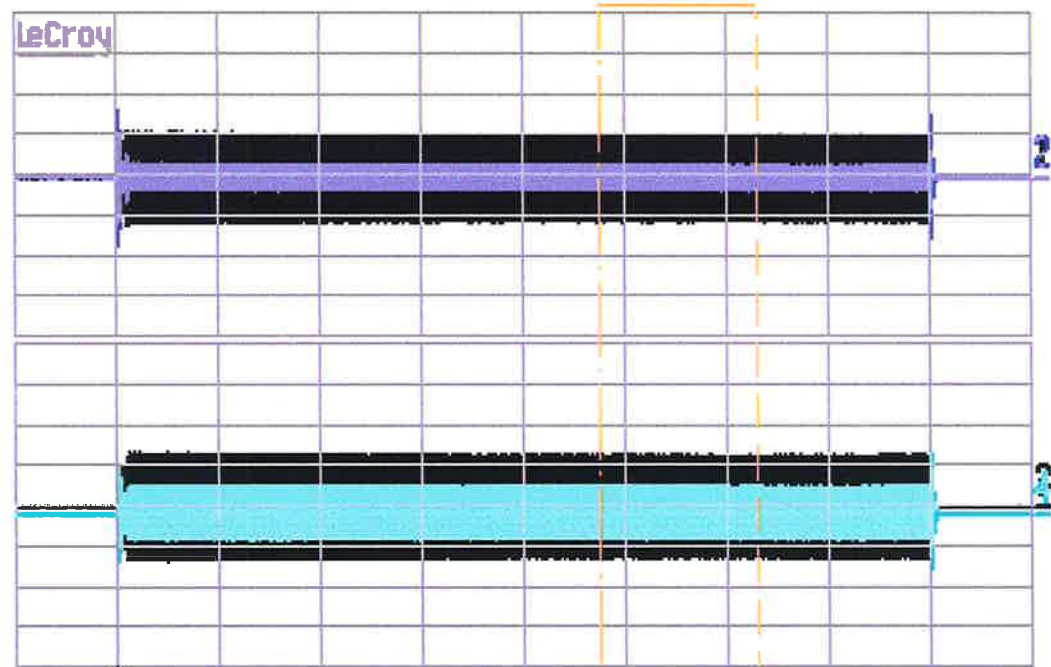
3

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



	234 sweeps:	average	low	high	sigma
rms(1)		388.9mV	383.6	393.0	2.9
rms(2)		44.7mV	43.0	46.4	0.8
rms(3)		450.9mV	445.4	455.0	2.9
rms(4)		96.7mV	93.9	98.7	1.1
phase(1,3)		80 °	75	87	2



Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

14-Nov-22

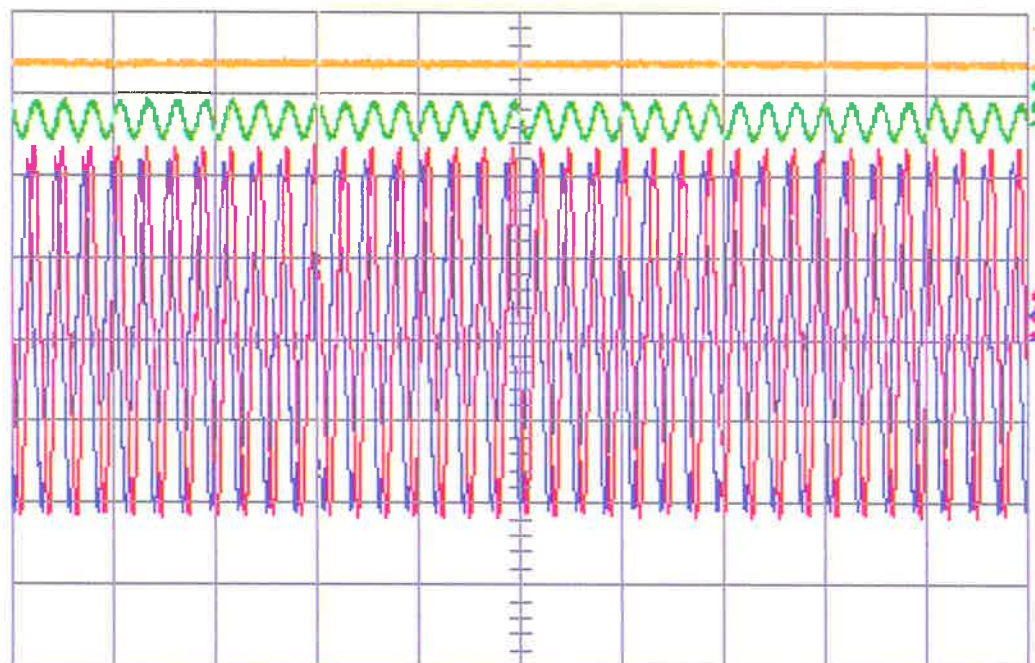
13:26:19

3
2 μ s
1.00 V

1
2 μ s
1.00 V

2
2 μ s
200 mV

4
2 μ s
1.00 V



← 1.0000 ms

	234 sweeps:	average	low	high	sigma
phase(4,3)		90.53 °	87.35	94.09	1.06
pkpk(3)		4.56 V	4.47	4.66	0.03
rms(2)		29.8 mV	29.2	30.2	0.2
rms(4)		1.401 V	1.380	1.423	0.009
rms(3)		1.488 V	1.463	1.516	0.011

2 μ s

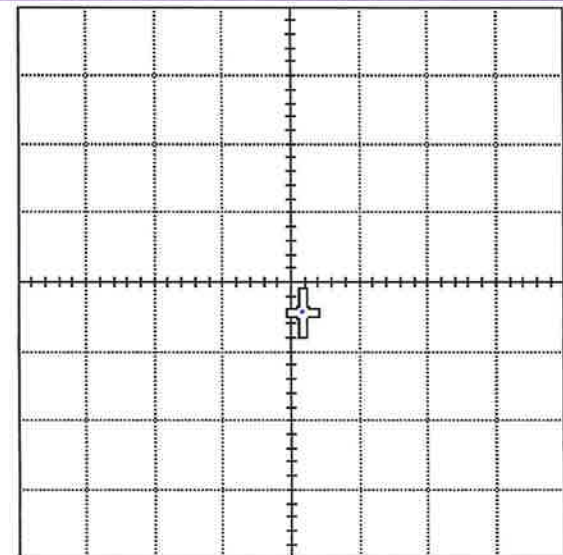
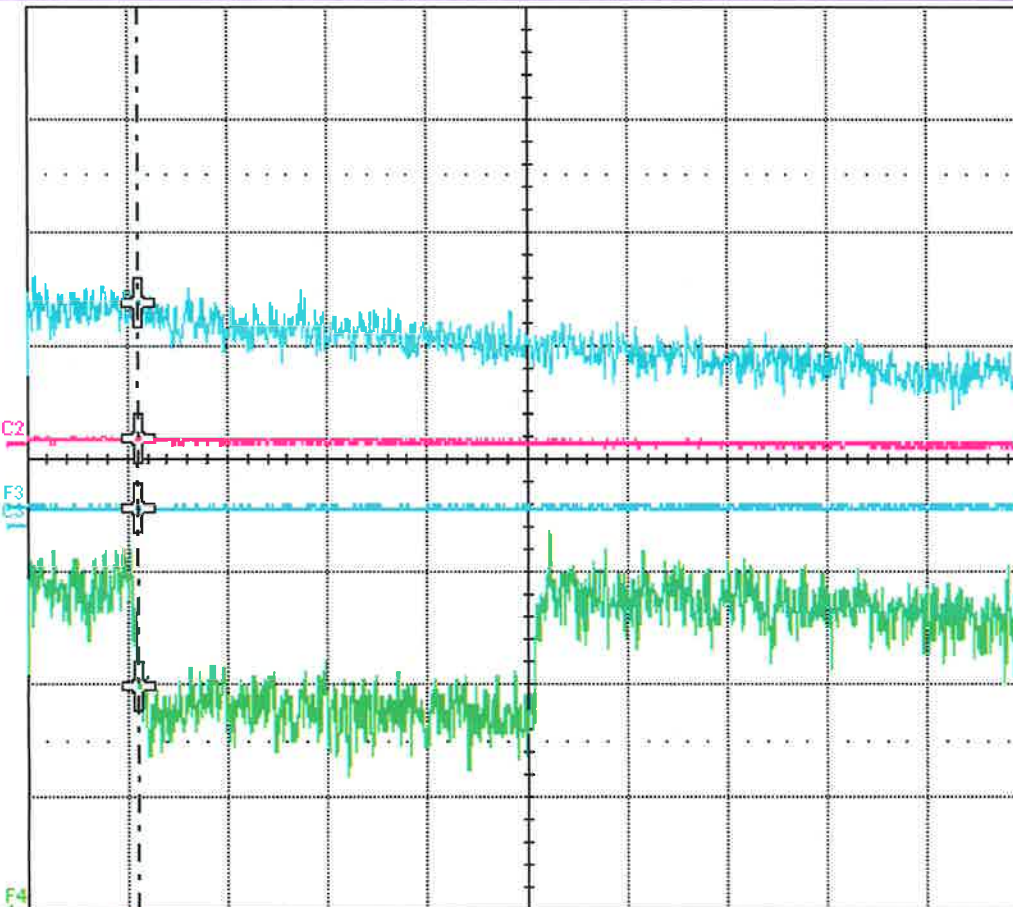
1 1 V DC
2 .2 V DC
3 1 V DC
4 1 V DC



Ext10 DC 0.15 V 50 Ω

1 GS/s

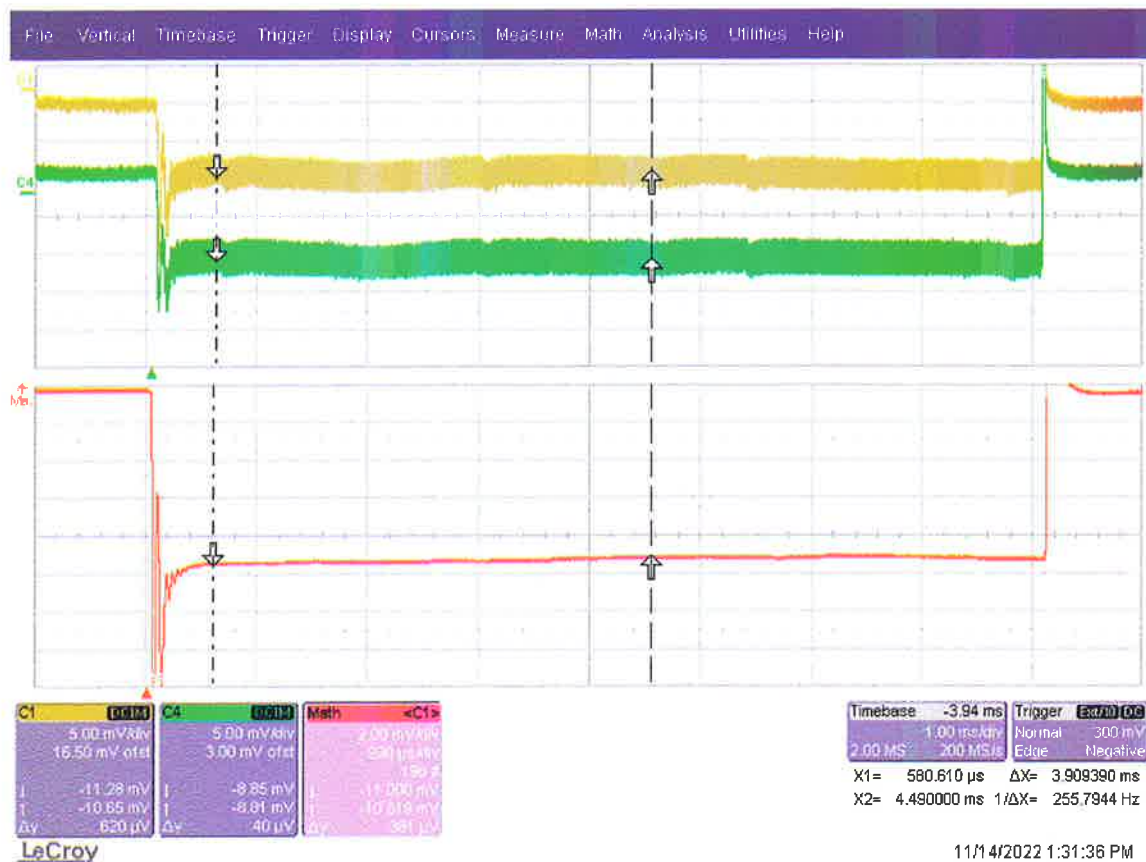
☐ NORMAL



$\Delta Y/\Delta X = -2.41$ $\Delta Y * \Delta X = -79 \text{ mV}^2$
 7.6 dB Angle = -67.4°
 Radius = 471 mV

C2	FLT DC1M	C3	FLT DC1M	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div		1.00 V/div		500e-3/div		20.0e-3/div			1.00 V/div
130.0 mV		-590.0 mV		2.00 ms/div		2.00 ms/div			1.00 V/div
						202 #			
51.1 mV		155.1 mV		908.7e-3		618.71e-3		51.1 mV	155.1 mV

Tbase	-7.96 ms	Trigger	Ext/10/DC
2.00 ms/div		Normal	130 mV
10.0 kS	500 kS/s	Edge	Negative
X1=	180 μs		



11/14/2022 1:31:36 PM

14-Nov-22

13:31:42

1
1 ms
0.50 V

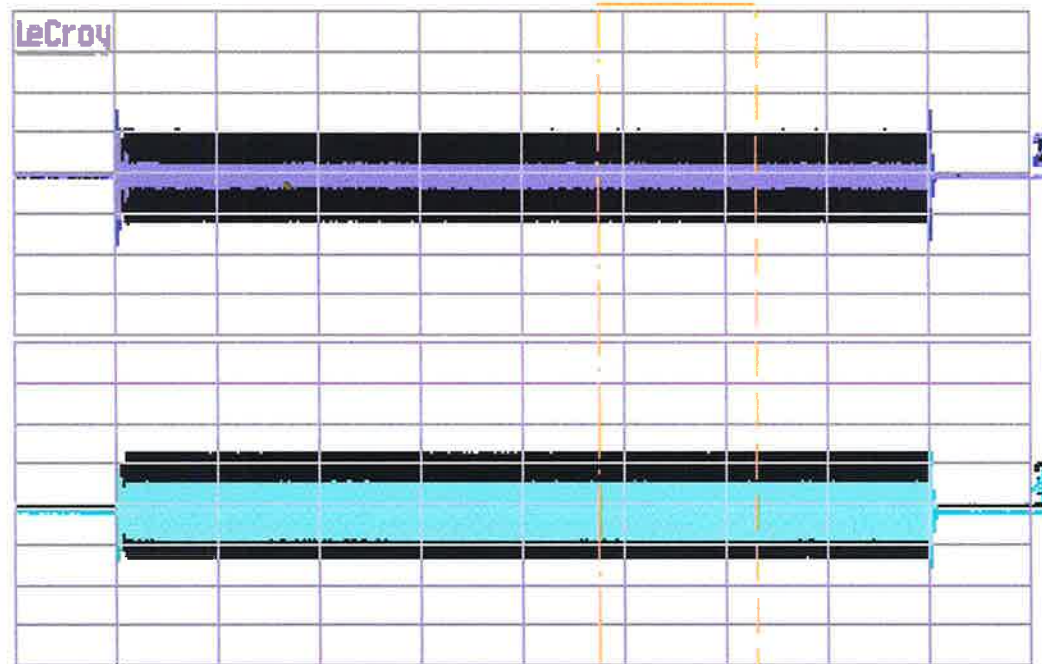
2
1 ms
200mV

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



198 sweeps:

	average	low	high	sigma
rms(1)	390.9mV	385.8	395.0	3.0
rms(2)	39.9mV	37.6	40.7	0.7
rms(3)	450.5mV	445.1	454.4	2.9
rms(4)	101.0mV	98.8	102.9	1.1
phase(1,3)	81 °	76	87	2



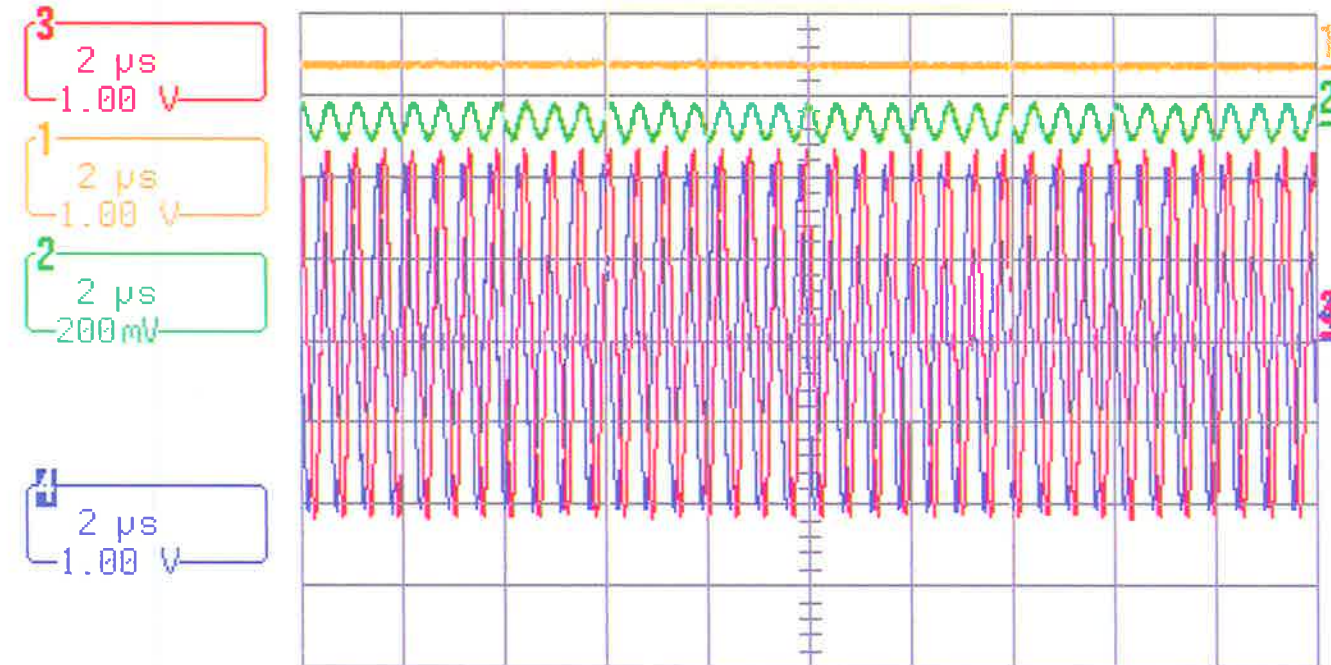
Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

14-Nov-22

13:31:48



	197 sweeps:	average	low	high	sigma
phase(4,3)		90.58 °	87.32	94.32	1.07
pkpk(3)		4.58 V	4.50	4.69	0.03
rms(2)		29.7mV	29.1	30.2	0.2
rms(4)		1.396 V	1.375	1.422	0.009
rms(3)		1.493 V	1.470	1.520	0.011

2 μs

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

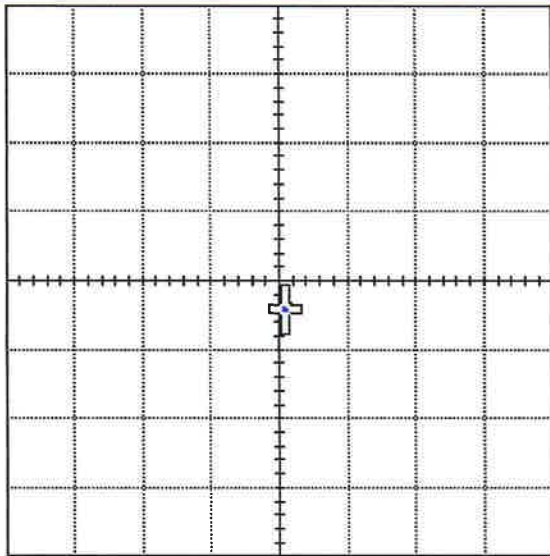


Ext10 DC 0.15 V 50Ω

1 GS/s

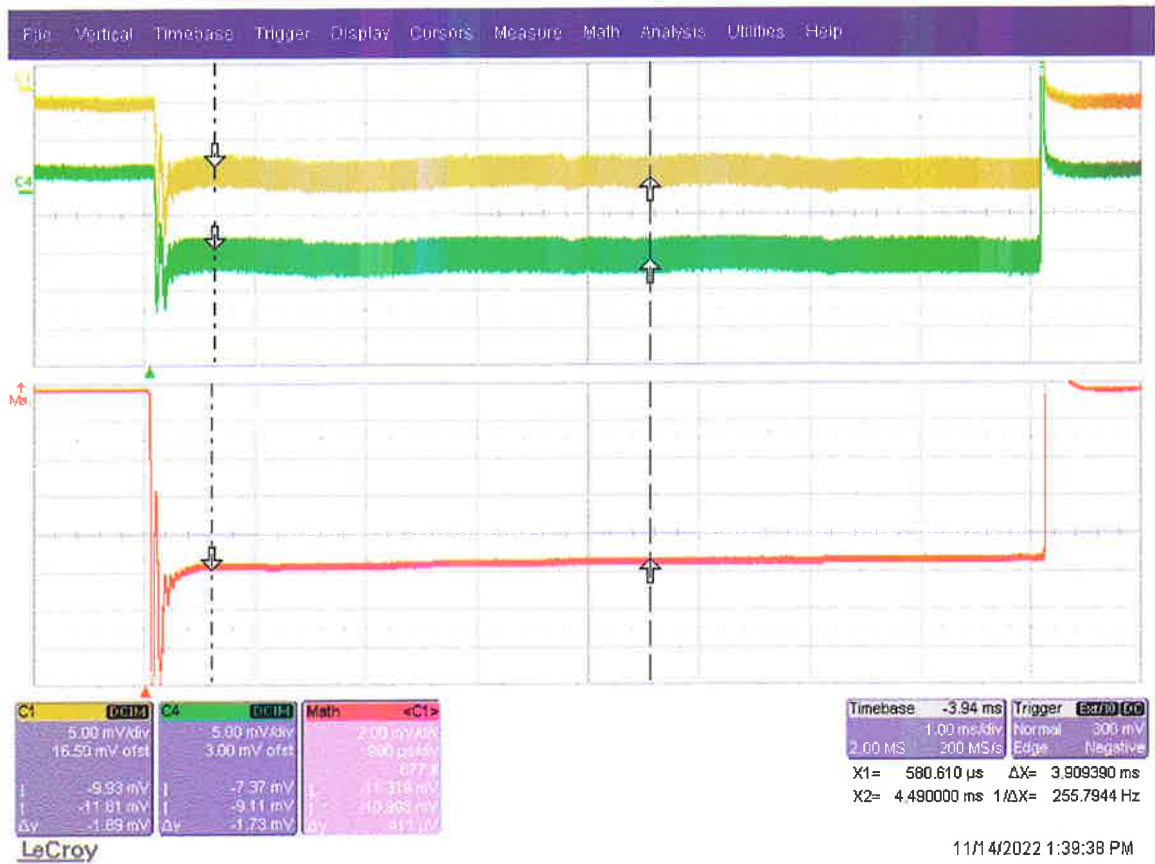


NORMAL



C2	FLT:DC1M	C3	FLT:DC1M	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	500e-3/div	20.0e-3/div			1.00 V/div			
130.0 mV	-590.0 mV	2.00 ms/div	2.00 ms/div			1.00 V/div			
			196 #						
✚ -52.1 mV	✚ 179.0 mV	✚ 307.0e-3	✚ 450.80e-3			✚x -52.1 mV			
						✚y 179.0 mV			

LeCroy



11/14/2022 1:39:38 PM

14-Nov-22

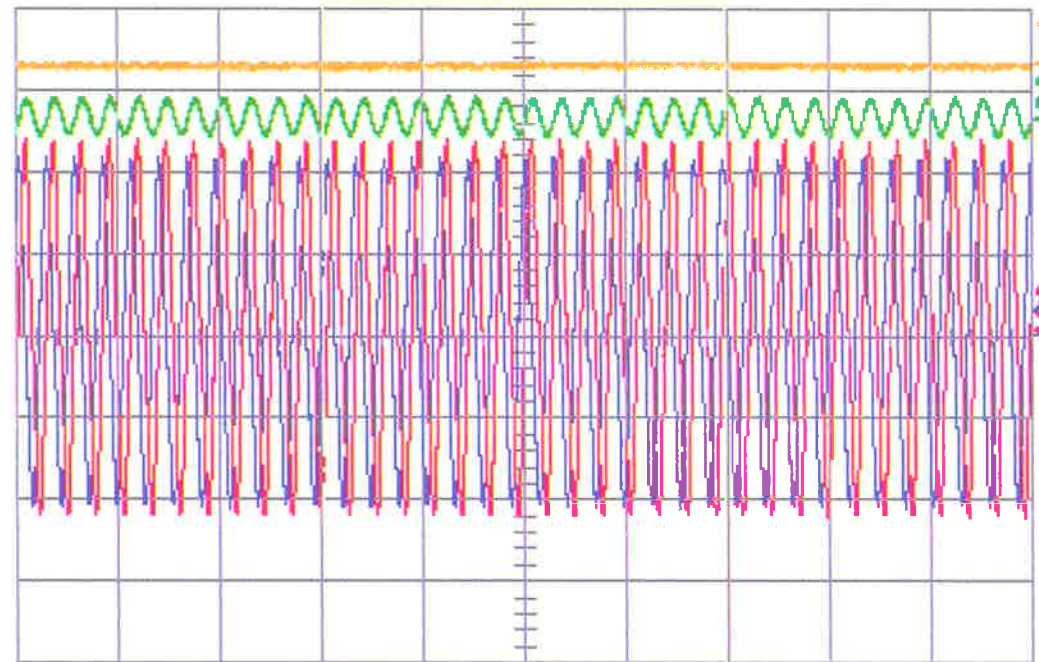
13:40:16

3
2 μ s
1.00 V

1
2 μ s
1.00 V

2
2 μ s
200 mV

4
2 μ s
1.00 V



← 1.0000 ms

	5 sweeps:	average	low	high	sigma
phase(4,3)		90.27 °	88.32	92.58	1.03
pkpk(3)		4.62 V	4.59	4.63	0.01
rms(2)		29.5mV	29.4	29.6	0.1
rms(4)		1.393 V	1.385	1.399	0.006
rms(3)		1.502 V	1.495	1.509	0.007

2 μ s

1 1 V DC

2 .2 V DC

3 1 V DC

4 1 V DC



Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

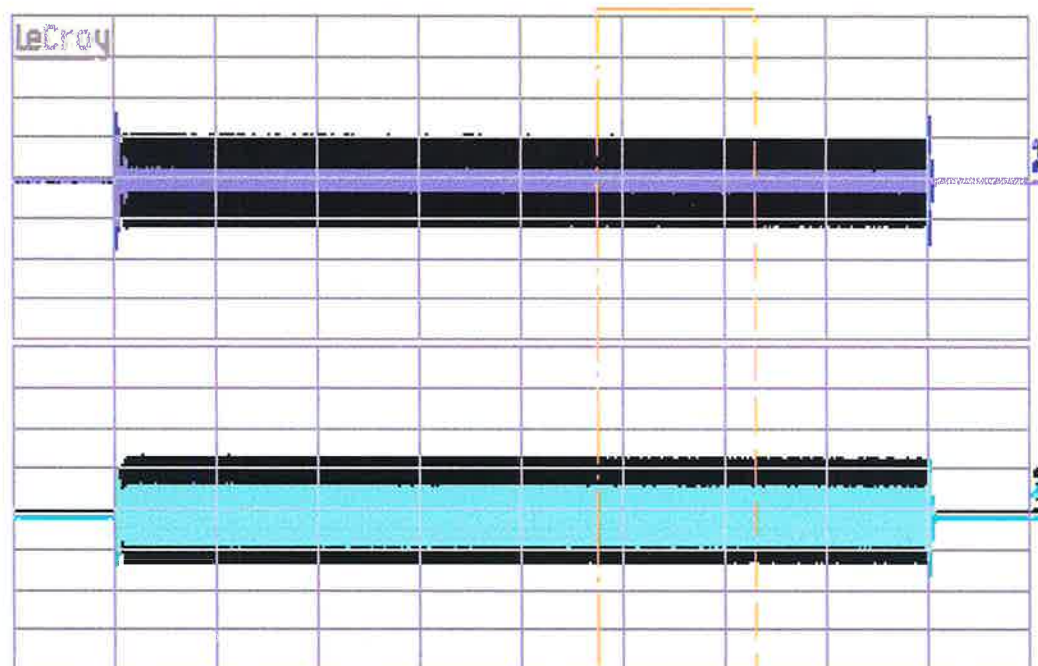
14-Nov-22
13:40:18

1
1 ms
0.50 V

2
1 ms
200 mV

3
1 ms
0.50 V

4
1 ms
200 mV



	13 sweeps:	average	low	high	sigma
rms(1)		394.7mV	393.8	395.8	0.6
rms(2)		35.6mV	35.4	35.8	0.1
rms(3)		451.1mV	450.3	452.1	0.6
rms(4)		107.9mV	107.7	108.1	0.1
phase(1,3)		81 °	76	86	2

1 ms

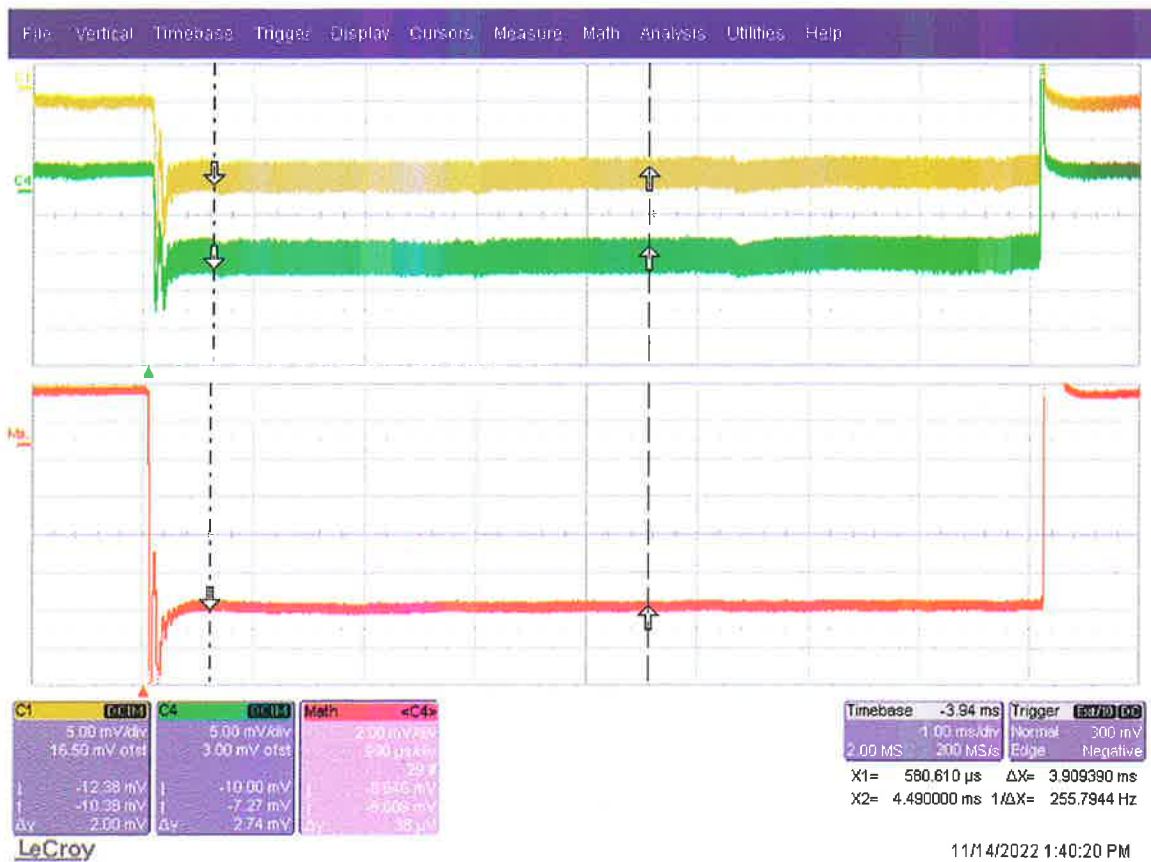
1 .5 V AC
2 .2 V AC
3 .5 V AC
4 .2 V AC



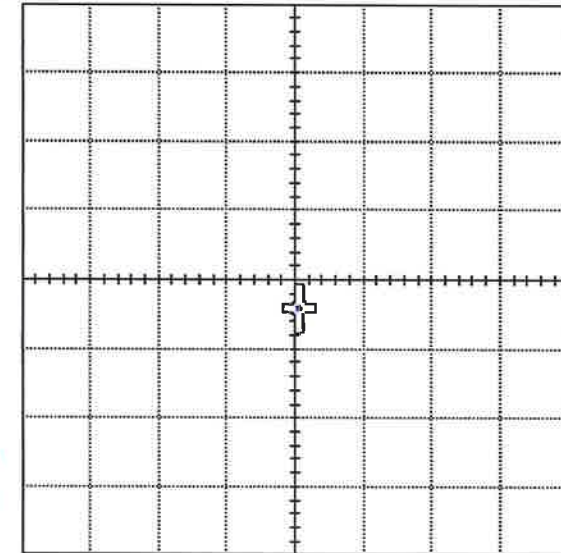
Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

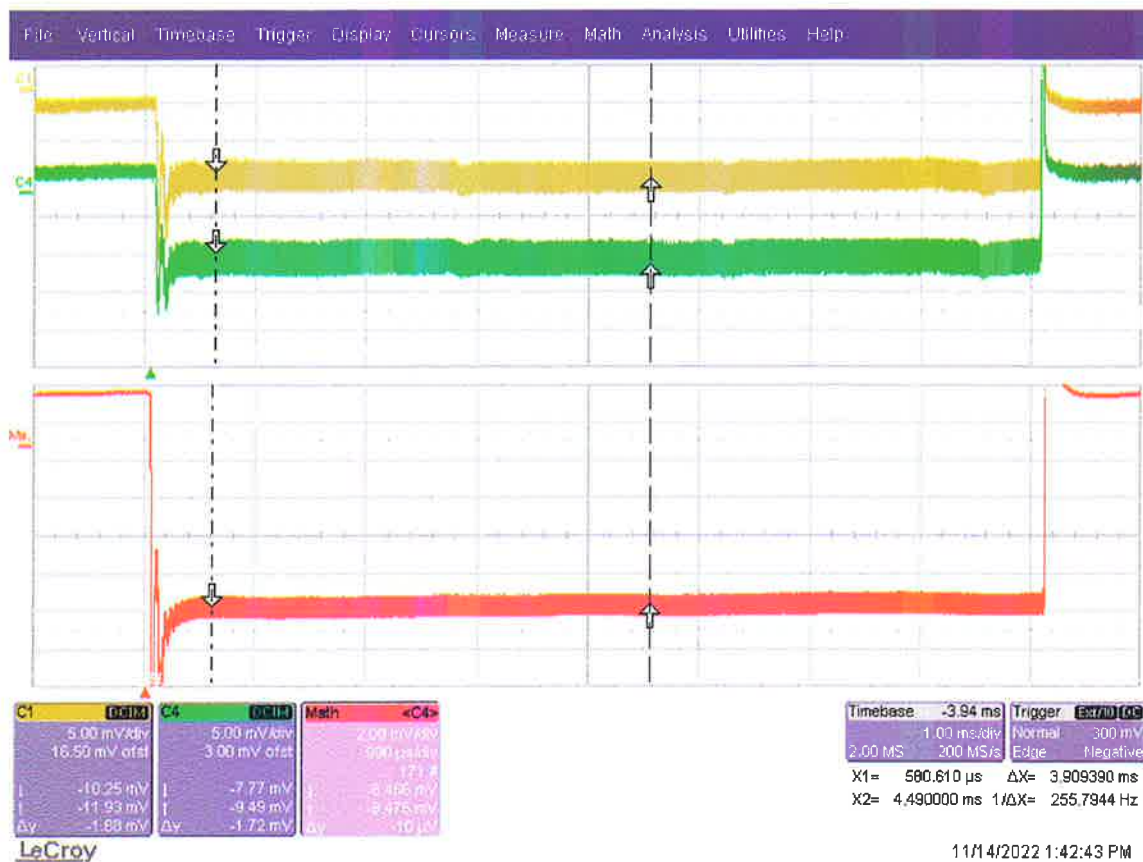


11/14/2022 1:40:20 PM



C2	FLT[DC1M]	C3	FLT[DC1M]	F3 script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	1.00 V/div	500e-3/div	20.0e-3/div	1.00 W/div			
130.0 mV	-590.0 mV	2.00 ms/div	2.00 ms/div	368 #	1.00 W/div			
✚ -59.0 mV	✚ 172.6 mV	✚ 261.0e-3	✚ 437.00e-3					

LeCroy



11/14/2022 1:42:43 PM

14-Nov-22

13:42:47

1
1 ms
0.50 V

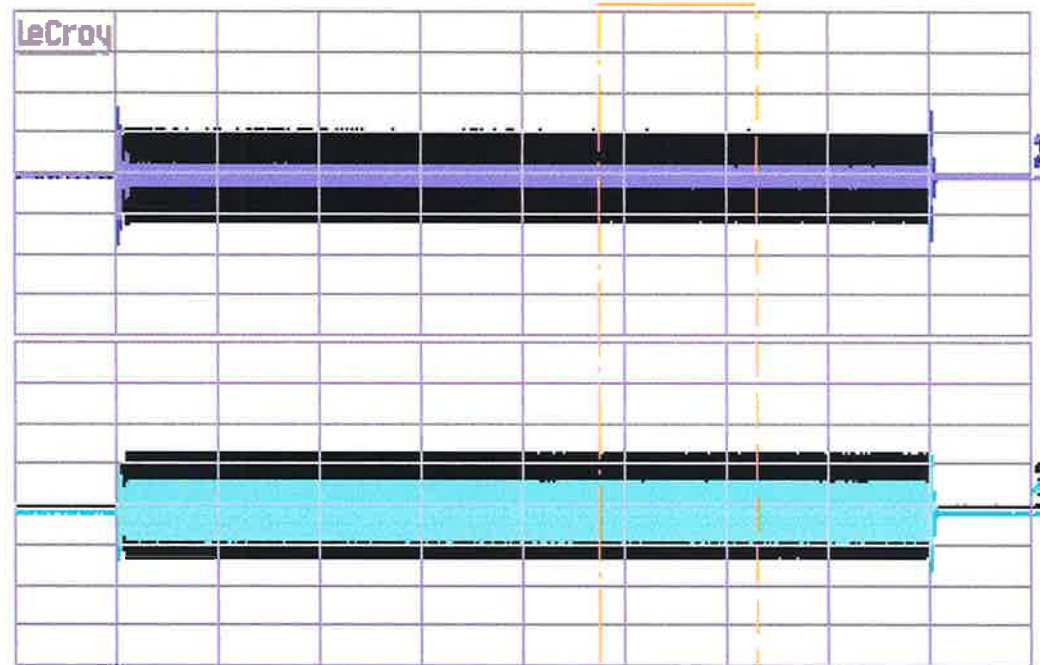
2
1 ms
200 mV

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



162 sweeps:

	average	low	high	sigma
rms(1)	392.3mV	387.2	396.5	2.7
rms(2)	35.1mV	34.3	35.8	0.3
rms(3)	448.4mV	443.5	452.1	2.6
rms(4)	107.5mV	106.3	108.8	0.7
phase(1,3)	81 °	76	87	2



Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

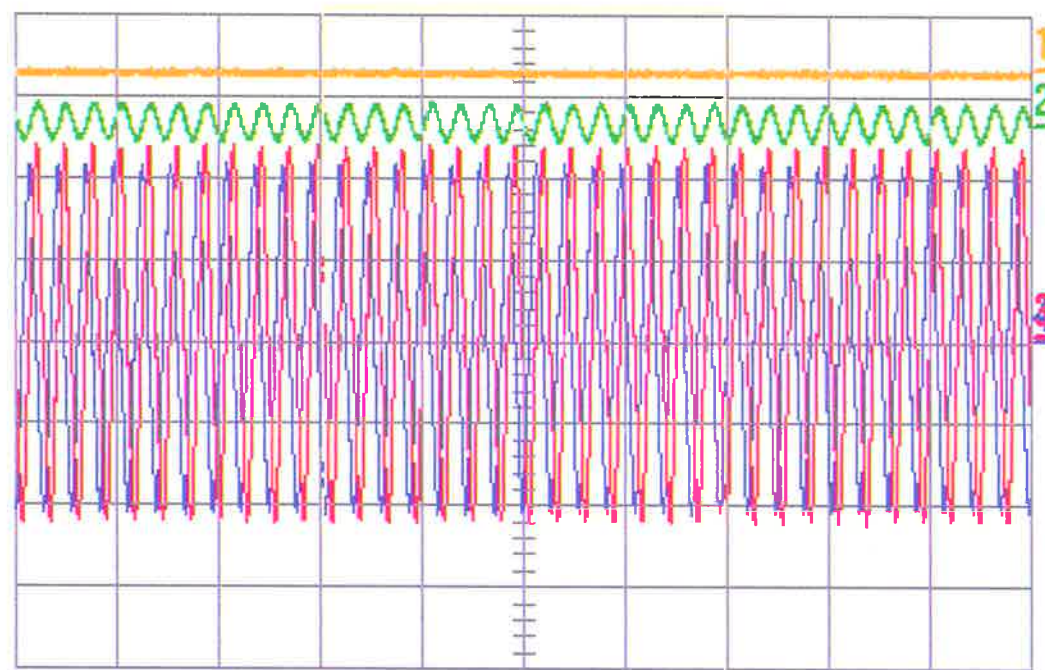
14-Nov-22
13:42:52

3
2 μ s
1.00 V

1
2 μ s
1.00 V

2
2 μ s
200mV

4
2 μ s
1.00 V



← 1.0000 ms

	161 sweeps:	average	low	high	sigma
phase(4,3)		90.07 °	86.41	93.45	1.02
pkpk(3)		4.61 V	4.53	4.66	0.03
rms(2)		29.5mV	28.9	30.0	0.2
rms(4)		1.386 V	1.366	1.407	0.009
rms(3)		1.499 V	1.473	1.520	0.011

2 μ s

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

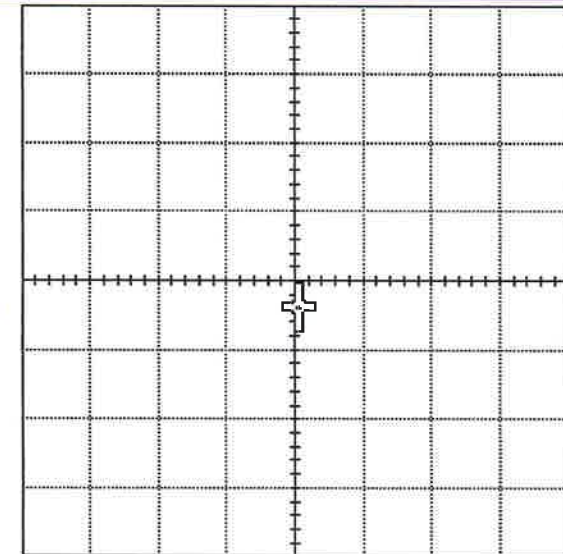
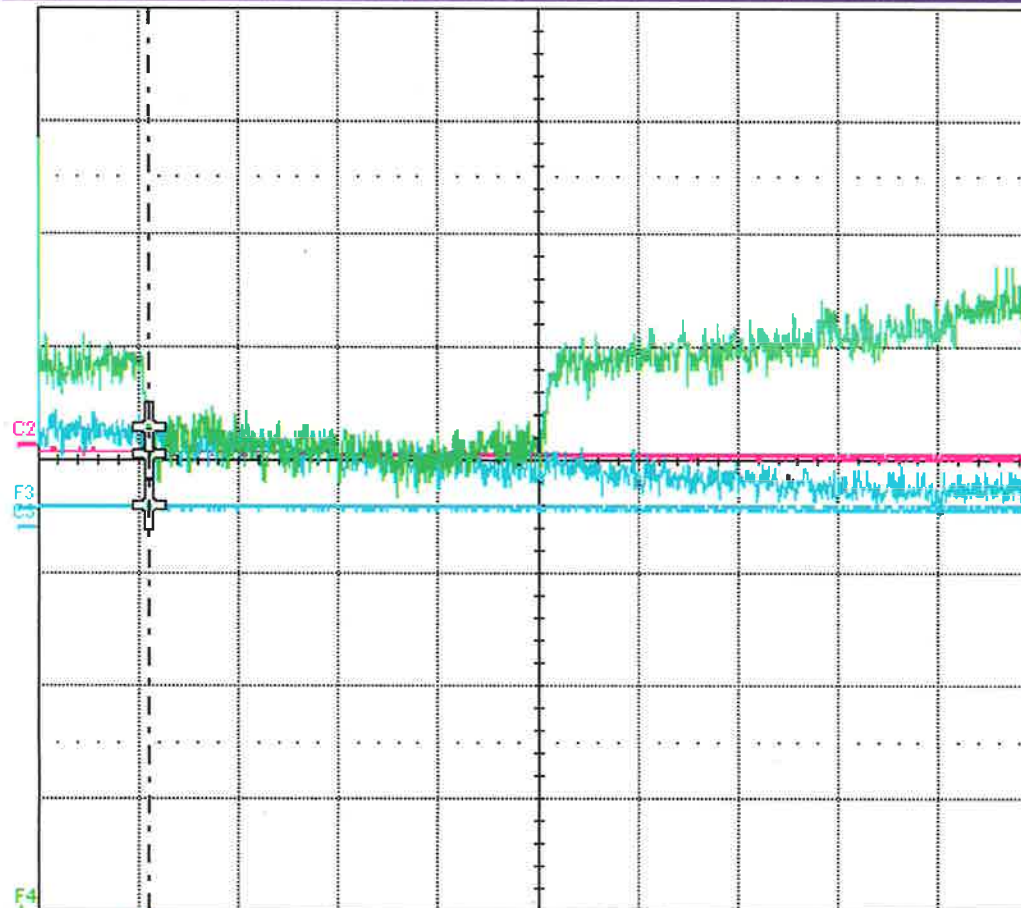


Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



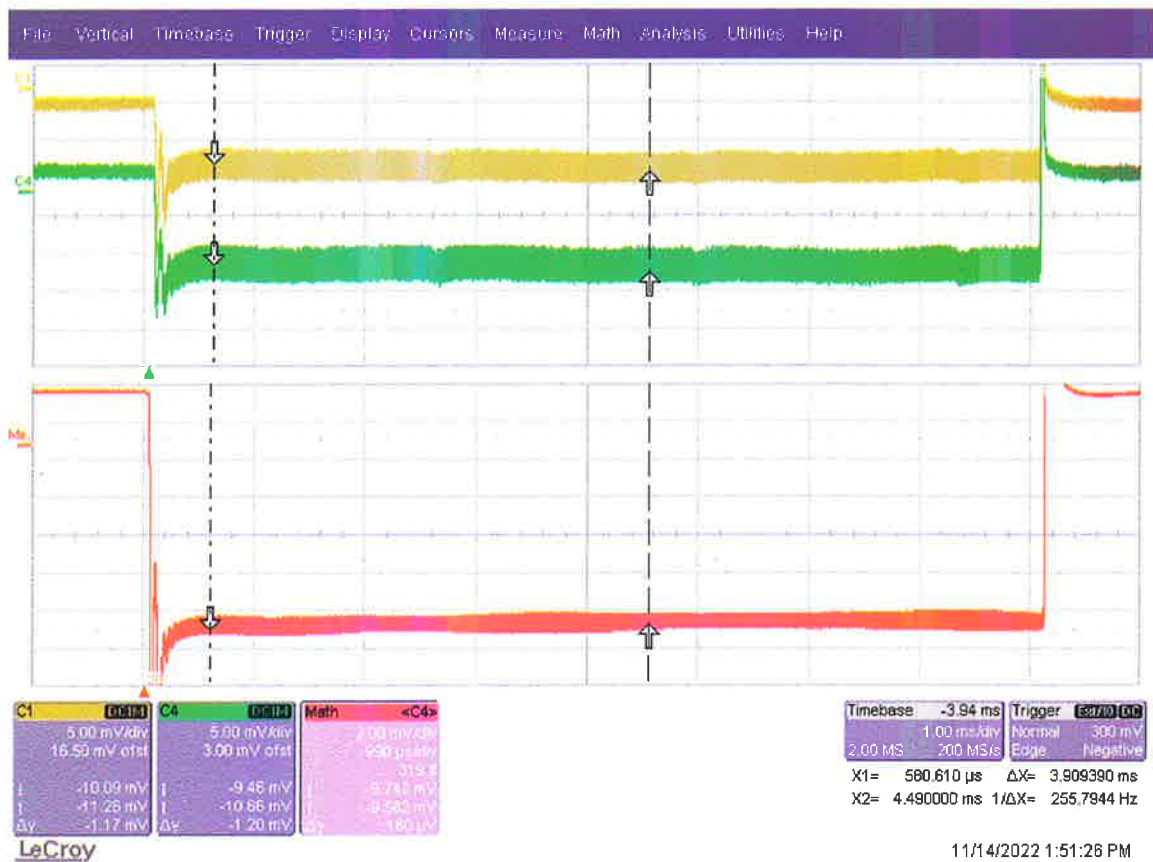
$\Delta Y/\Delta X = -6.6$ $\Delta Y^2/\Delta X = -24 \text{ mV}^2$
 16.4 dB Angle = -81.3°
 Radius = 404 mV

C2	FLT DGTM	C3	FLT DGTM	F3	script(C3,C2)	F4	<F3>	XY	X:C2 Y:C3
1.00 V/div	1.00 V/div	1.00 V/div	500e-3/div	20.0e-3/div	1.00 V/div	2.00 ms/div	2.00 ms/div	1.00 V/div	1.00 V/div
130.0 mV	-590.0 mV			369 #					
⬆ -69.3 mV	⬆ 191.0 mV	⬆ 242.6e-3	⬆ 509.45e-3	⬆ x -69.3 mV	⬆ y 191.0 mV				

Tbase -7.96 ms Trigger Ext/10 DC
 2.00 ms/div Normal 130 mV
 10.0 kS 500 kS/s Edge Negative
 X1= 180 μs

LeCroy

11/14/2022 1:51:23 PM



11/14/2022 1:51:26 PM

14-Nov-22

13:51:30

1
1 ms
0.50 V

2
1 ms
200 mV

3
1 ms
0.50 V

4
1 ms
200 mV

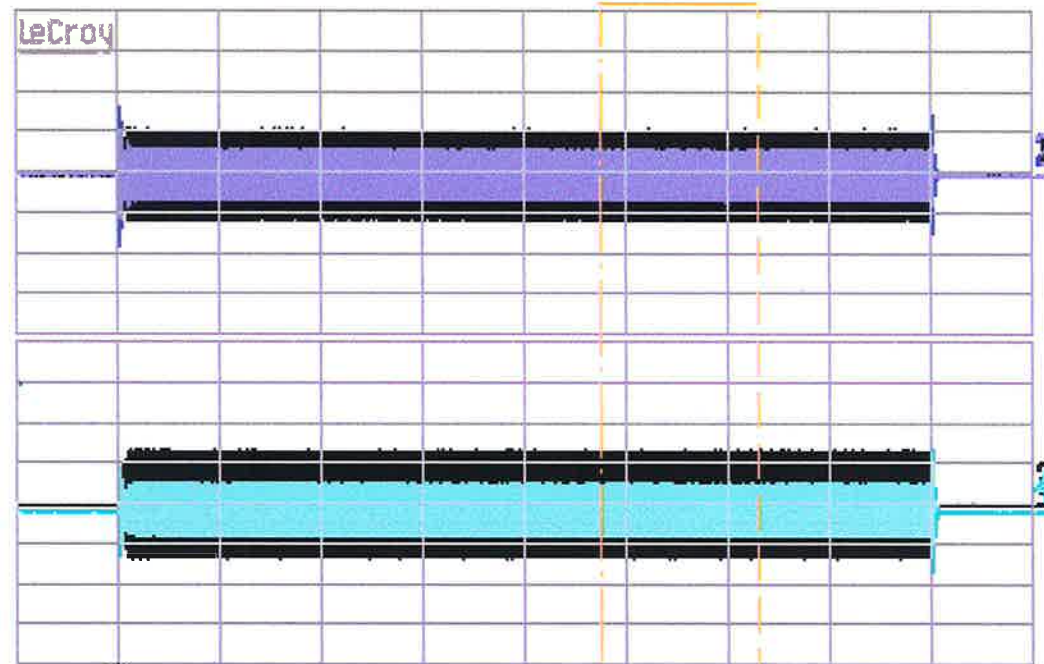
1 ms

1 .5 V AC

2 .2 V AC

3 .5 V AC

4 .2 V AC



69 sweeps: average low high sigma

rms(1)	393.1mV	388.8	396.1	1.8
rms(2)	87.0mV	85.8	87.6	0.5
rms(3)	460.9mV	456.6	464.1	1.9
rms(4)	90.8mV	89.8	92.2	0.7
phase(1,3)	77 °	73	83	2



Ext10 DC 0.50 V 50Ω

10 MS/s

☐ NORMAL

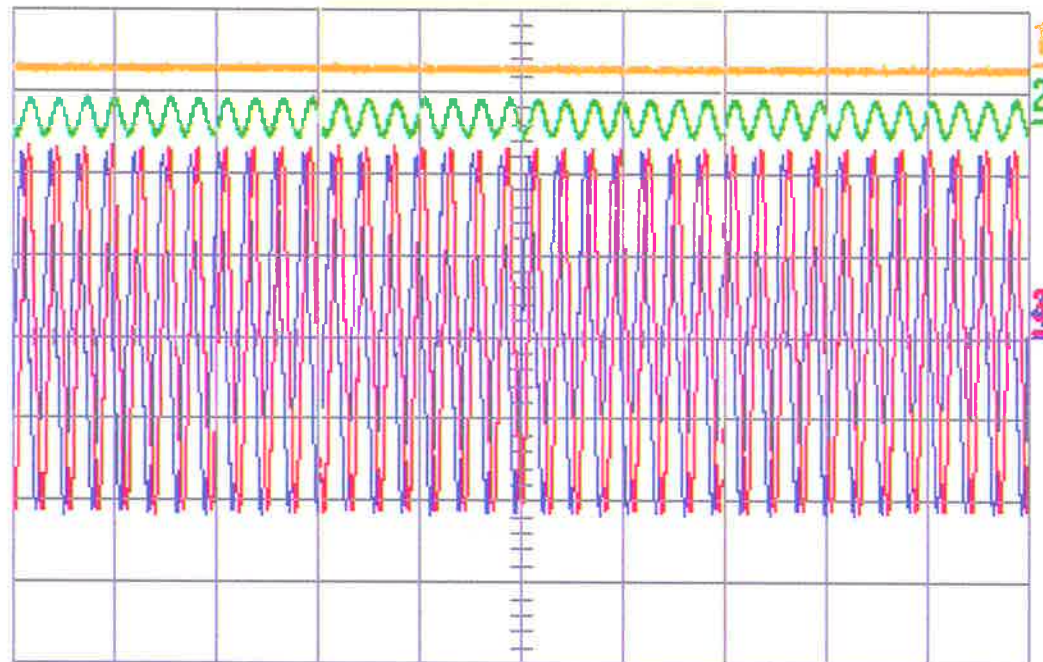
14-Nov-22
13:51:36

3
2 μ s
1.00 V

1
2 μ s
1.00 V

2
2 μ s
200 mV

4
2 μ s
1.00 V



	119 sweeps:	average	low	high	sigma
phase(4,3)		90.62 °	86.40	94.53	1.22
pkpk(3)		4.55 V	4.47	4.63	0.04
rms(2)		29.8mV	26.2	30.8	0.8
rms(4)		1.431 V	1.412	1.449	0.009
rms(3)		1.480 V	1.455	1.507	0.010

2 μ s

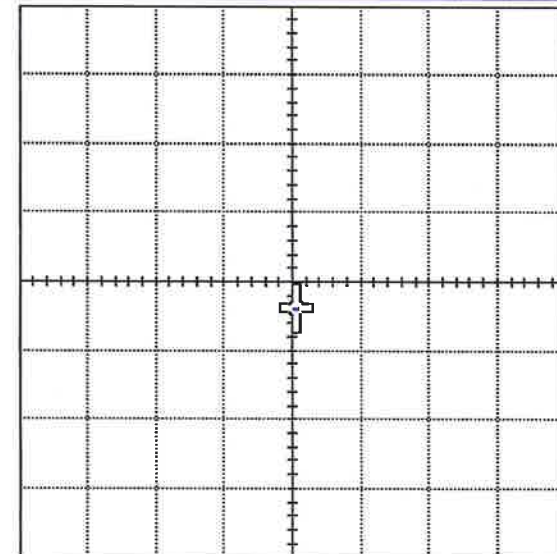
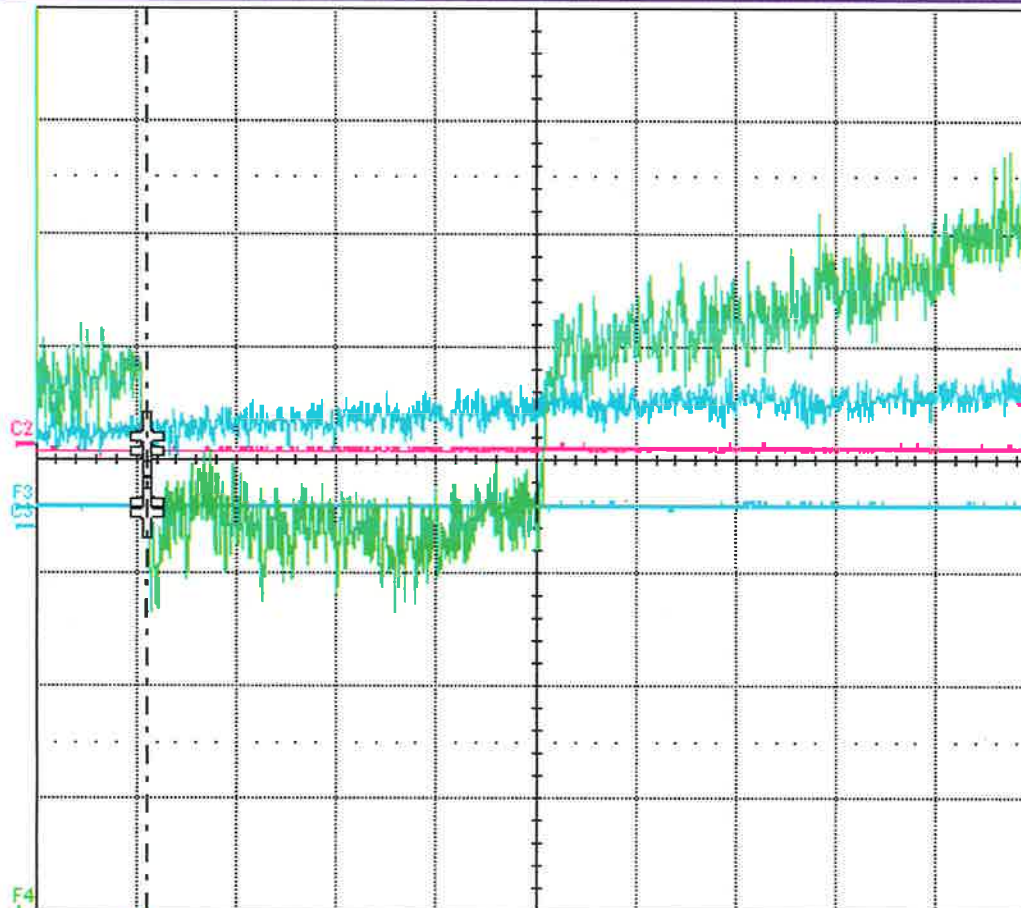
1 1 V DC
2 .2 V DC
3 1 V DC
4 1 V DC



Ext10 DC 0.15 V 50 Ω

1 GS/s

☐ NORMAL



$\Delta Y/\Delta X = -5.3$
 14.5 dB
 Radius = 395 mV
 $\Delta Y * \Delta X = -28 \text{ mV}^2$
 Angle = -79.3°

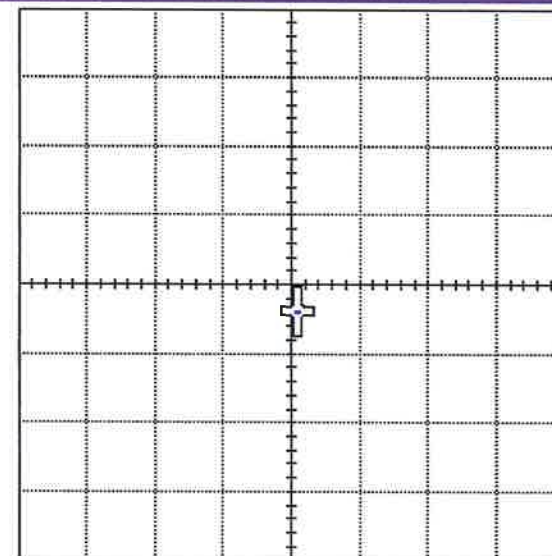
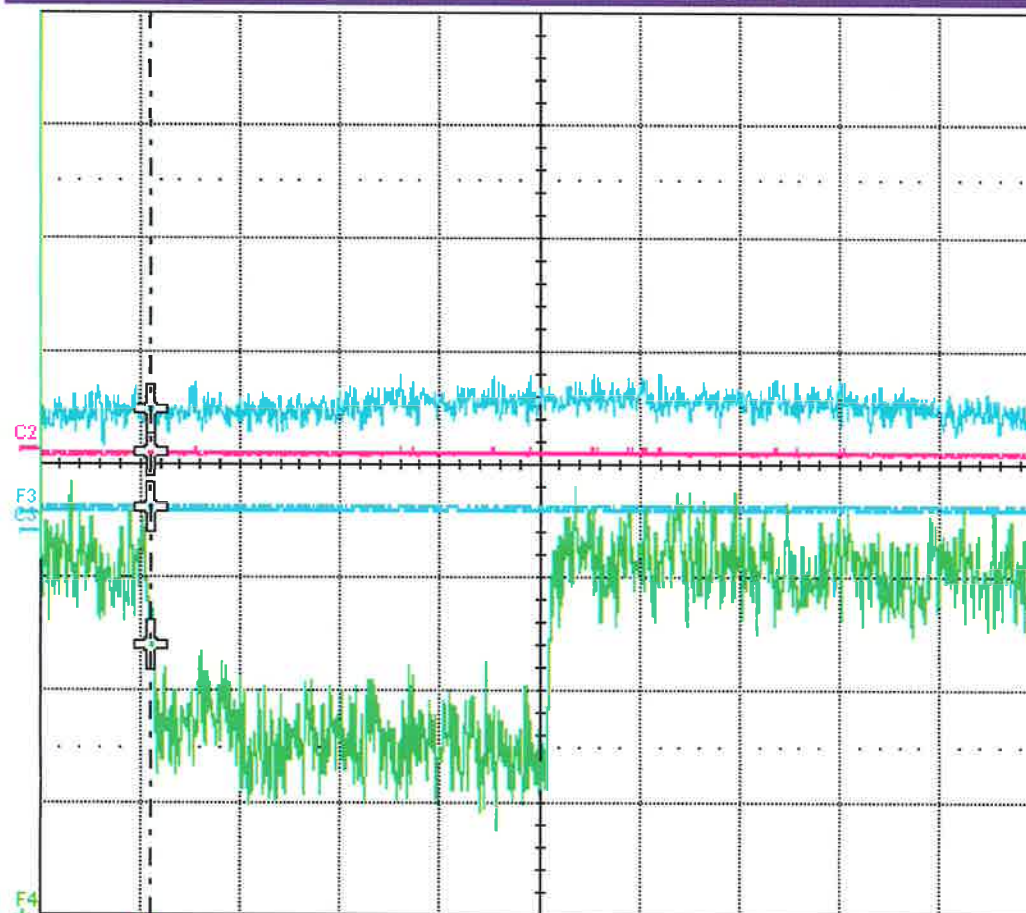
C2	C3	F3	F4	XY	X:C2 Y:C3
FLT DC1M	FLT DC1M	script(C3,C2)	<F3>		
1.00 V/div	1.00 V/div	500e-3/div	10.0e-3/div	1.00 V/div	1.00 V/div
130.0 mV	-590.0 mV	2.00 ms/div	2.00 ms/div	1.00 V/div	1.00 V/div
			412 #		
✚ -18.0 mV	✚ 196.1 mV	✚ 499.1e-3	✚ 499.10e-3	✚x -18.0 mV	✚y 196.1 mV

Tbase	-7.96 ms	Trigger	Ext10 DC
	2.00 ms/div	Normal	130 mV
10.0 kS	500 kS/s	Edge	Negative
X1=	180 μs		

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File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



$\Delta Y/\Delta X = -3.7$ $\Delta Y^2/\Delta X = -40 \text{ mV}^2$
 11.4 dB Angle = -75.0°
 Radius = 402 mV

C2	C3	F3	F4	XY	X: C2 Y: C3
FLT DC1M	FLT DC1M	script(C3,C2)	<F3>		
1.00 V/div	1.00 V/div	500e-3/div	10.0e-3/div		1.00 V/div
130.0 mV	-590.0 mV	2.00 ms/div	2.00 ms/div		1.00 V/div
			236 #		
✚ -56.5 mV	✚ 197.4 mV	✚ 311.6e-3	✚ 236.90e-3	✚ x -56.5 mV	
				✚ y 197.4 mV	

Tbase -7.96 ms Trigger Edge 10 DC
 2.00 ms/div Normal 130 mV
 10.0 kS 500 kS/s Edge Negative
 X1= 180 μs

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