

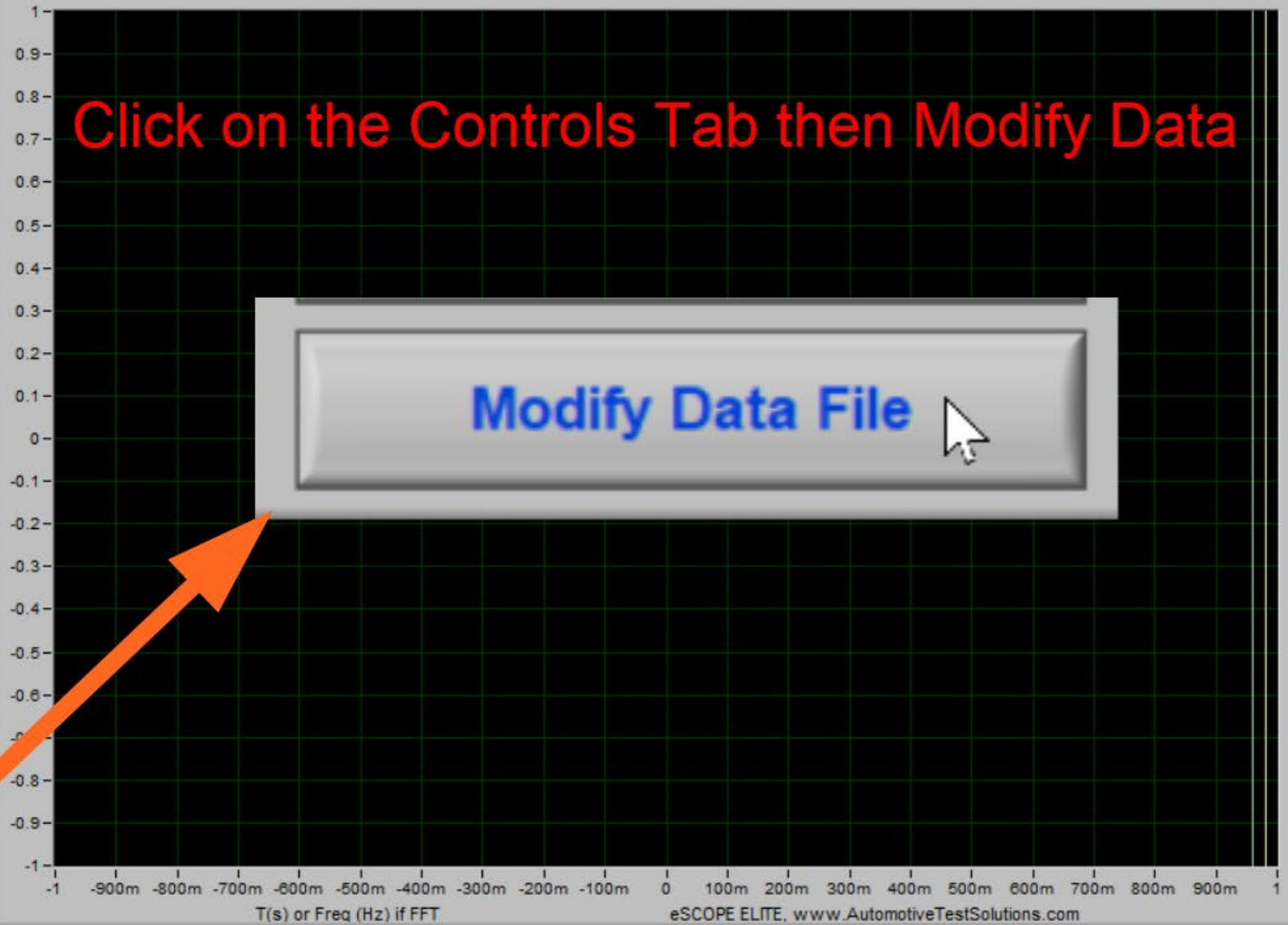
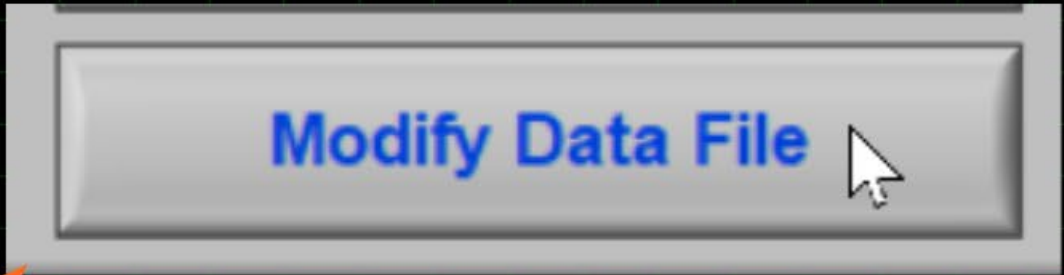
Modifying Data using the eSCOPE ELITE

1. Changing or Adding Embedded Vehicle Information
2. Adding Offsets (permanently)
3. Cropping Data
4. Swapping Channels

- Hold A (F1)
- Hold Next A (F2)
- Hold B (F3)
- Hold Next B (F4)
- Hold A & B (F5)
- Save Custom Setup (F6)
- Load Setup/Waveform (F7)
- Save Dual A (F8)
- Save Dual B (F9)
- Load Data (F10)
- Save Screen (F11)
- Print Screen (F12)
- Modify Data File

Plot Dual A Deep Rec Time(s) 20 Start Deep Record Save Mark Cam #Cyls 4 Mark Cylinders RPM 0
 Plot Dual B Fast Cap Rec Time(s) 5 Start Fast Capture Load Mark 360 Offset 0.00 Deg 0.0

Click on the Controls Tab then Modify Data



Get Cursors 0 Cursor

- Cursor
- Pan Hand
 - Zoom Window
 - Zoom In
 - Zoom Out
 - Zoom Out to Full
 - Zoom Set
 - Zoom to Set
 - Zoom Undo

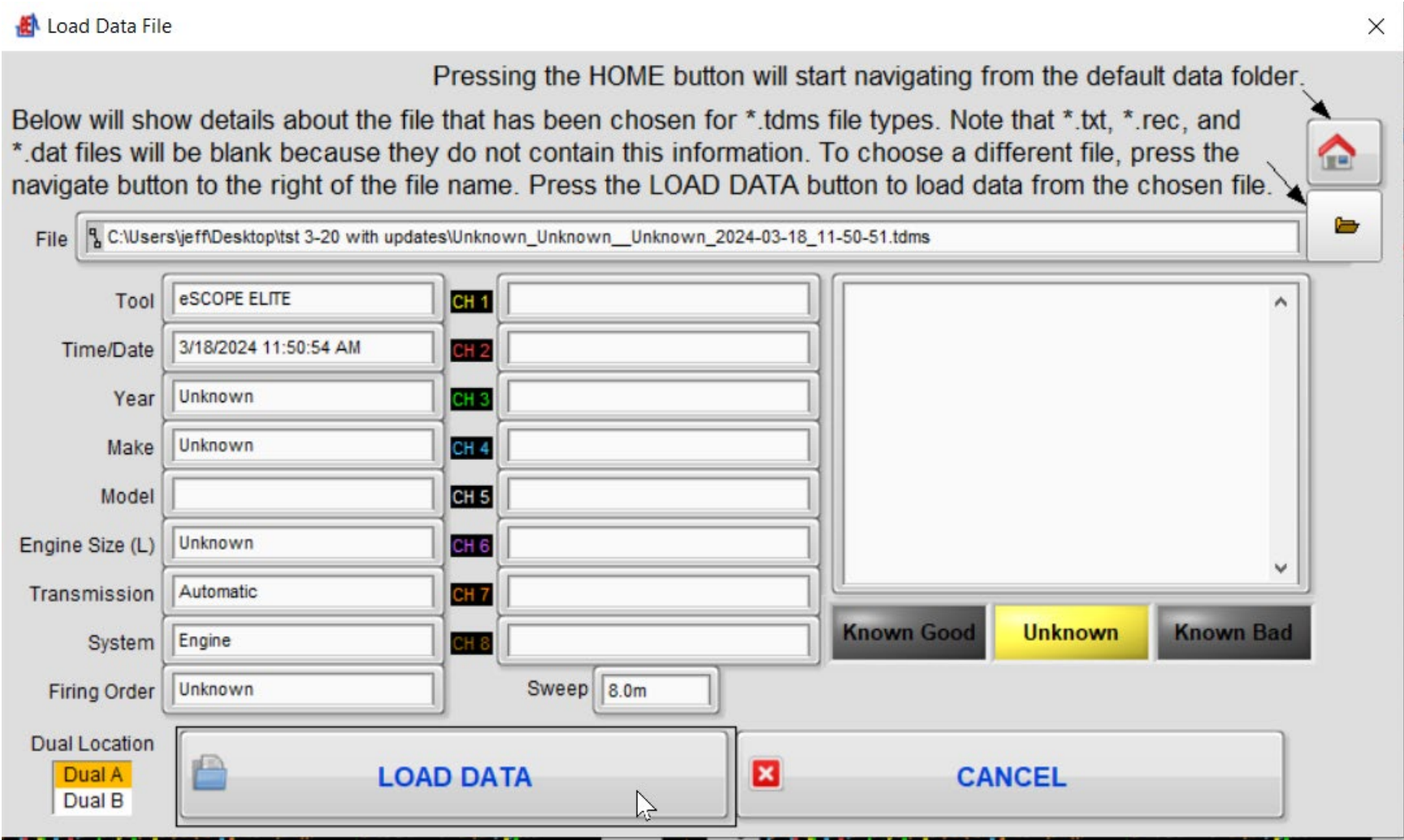
Cursor Measurements

#1 (Val)	19.200
#2 (Val)	19.600
#1 - #2	400.000m
Period (s)	20.000m
Freq (Hz)	50.000

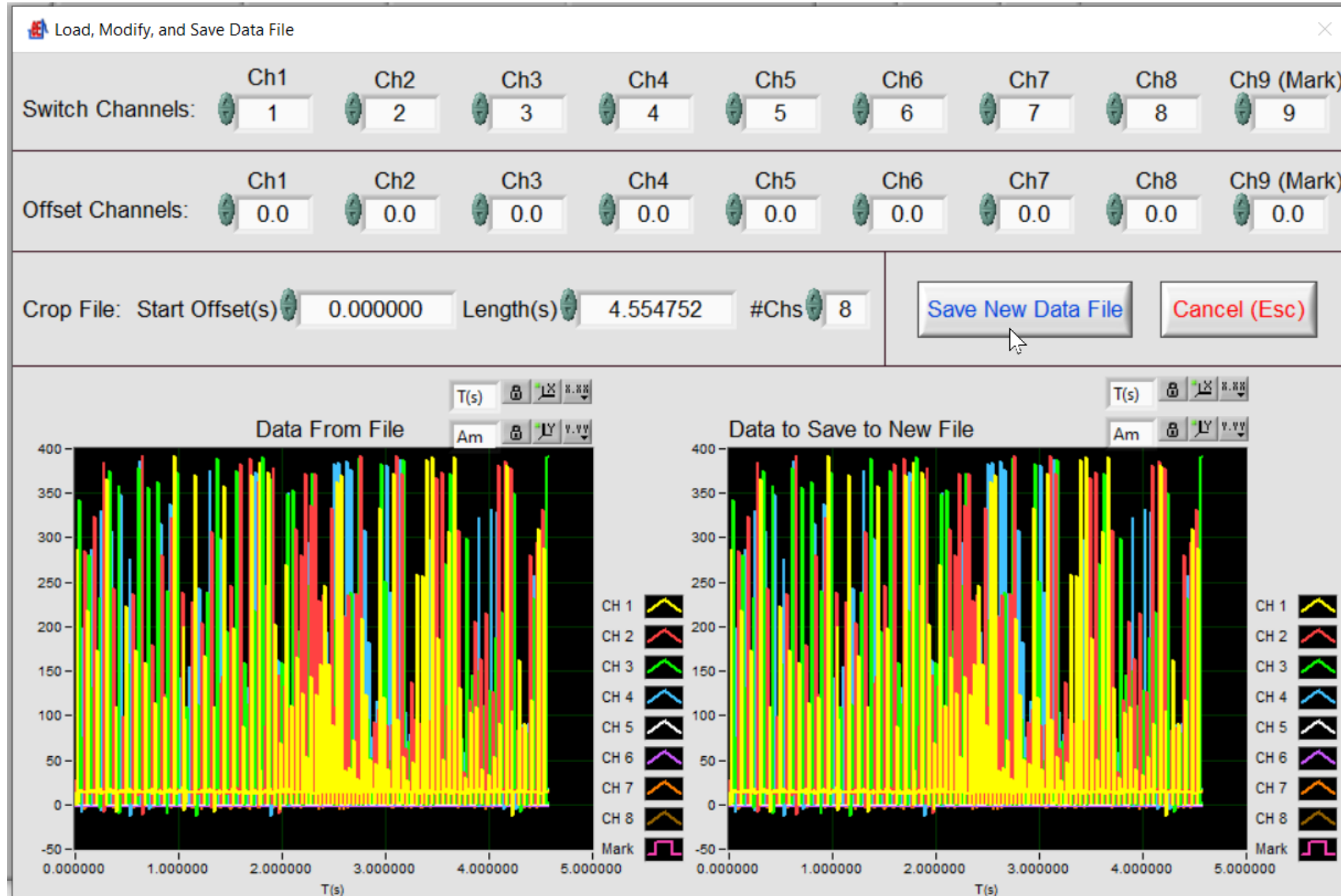
Process Data ^ All

- CH 1 ON ◊
- CH 2 ON ◊
- CH 3 ON ◊
- CH 4 ON ◊
- CH 5 OFF ◊
- CH 6 OFF ◊
- CH 7 OFF ◊
- CH 8 OFF ◊
- Mark ON ◊

You will be prompted to load a data file to be modified, in this case the file was saved with no vehicle or channel assignments



The data within the file will be displayed, in this case we are only changing the embedded information, so click in “Save New Data File”



Make the changes such as Year, Make, Mode, Engine Size, Firing Order and Channel Assignments etc.

Load Data File

Pressing the HOME button will start navigating from the default data folder.

Below will show details about the file that has been chosen for *.tdms file types. Note that *.txt, *.rec, and *.dat files will be blank because they do not contain this information. To choose a different file, press the navigate button to the right of the file name. Press the LOAD DATA button to load data from the chosen file.

File: C:\Users\jeff\Desktop\st 3-20 with updates\Unknown_Unknown_Unknown_2024-03-18_11-50-51.tdms

Tool	eSCOPE ELITE	CH 1	
Time/Date	3/18/2024 11:50:54 AM	CH 2	
Year	Unknown	CH 3	
Make	Unknown	CH 4	
Model		CH 5	
Engine Size (L)	Unknown	CH 6	
Transmission	Automatic	CH 7	
System	Engine	CH 8	

Firing Order: Unknown

Sweep: 8.0m

Known Good Unknown Known Bad

Dual Location: Dual A Dual B

LOAD DATA CANCEL

Save Data File

Year	2012	CH 1	Ignition Coil 1	Ignition Coil 1	Edit Description/Problem/Notes Below Injectors and 20A on Fuse 26 using Fuse Buddy
Make	Ford	CH 2	Ignition Coil 3	Ignition Coil 3	
Model	Escape	CH 3	Ignition Coil 4	Ignition Coil 4	
Engine Size (L)	2.5	CH 4	Ignition Coil 2	Ignition Coil 2	
Transmission	Automatic	CH 5	Unknown/Custom	20A around Fuse 26	
System	Engine	CH 6	Unknown/Custom		
Edit System Custom	Engine	CH 7	Unknown/Custom		
Firing Order	4 Cylinder, 1-3-4-2	CH 8	Unknown/Custom		

File Name and Location. Edit the name before saving to change the default. Click the folder browser on the right to change location.

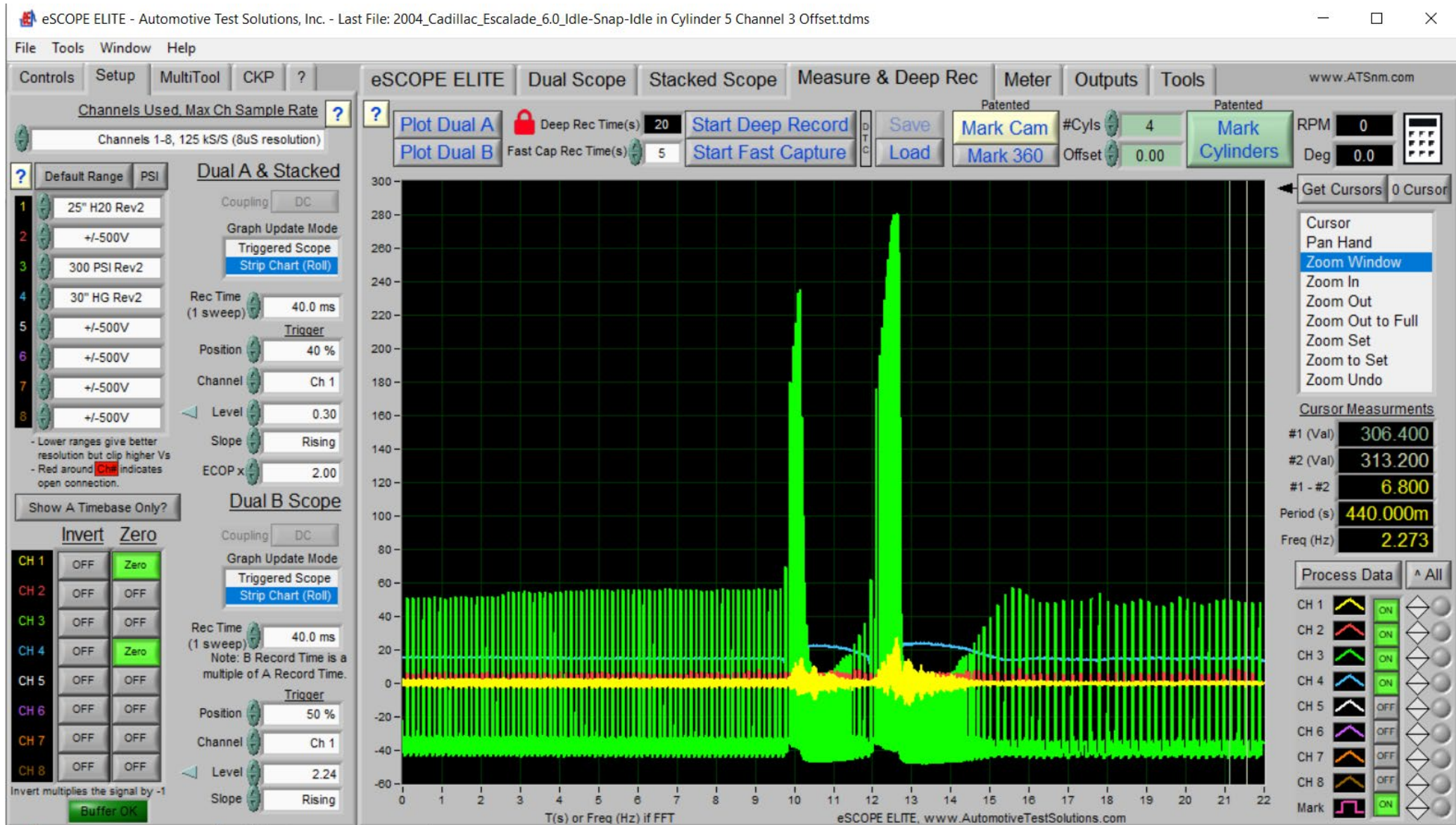
C:\Users\jeff\Desktop\st 3-20 with updates\2012_Ford_Escape_2.5_Injectors and 20A on Fuse 26 using Fuse Buddy.tdms

SAVE DATA CANCEL

Known Good Unknown Known Bad

Start navigating from the default data folder.

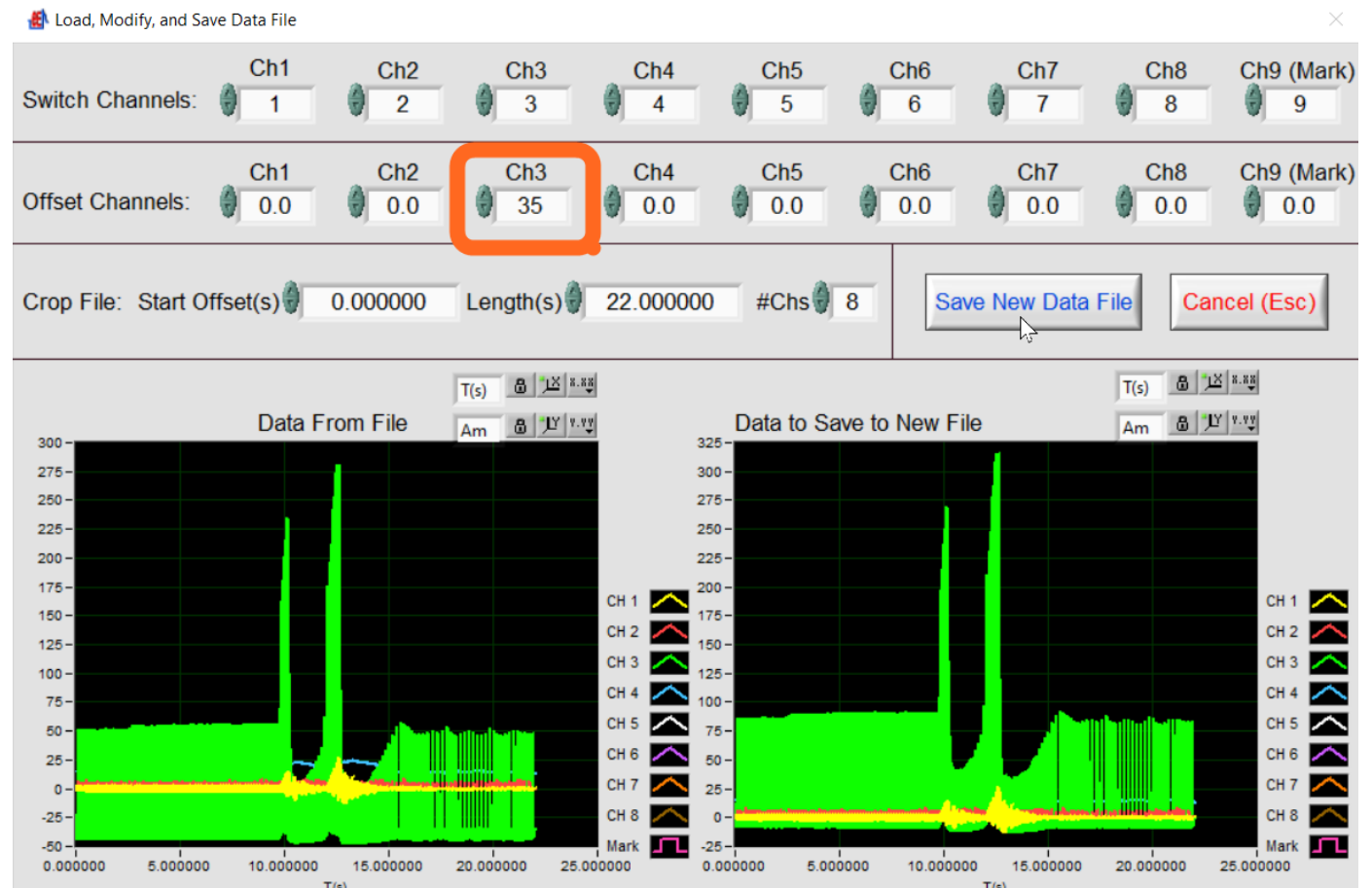
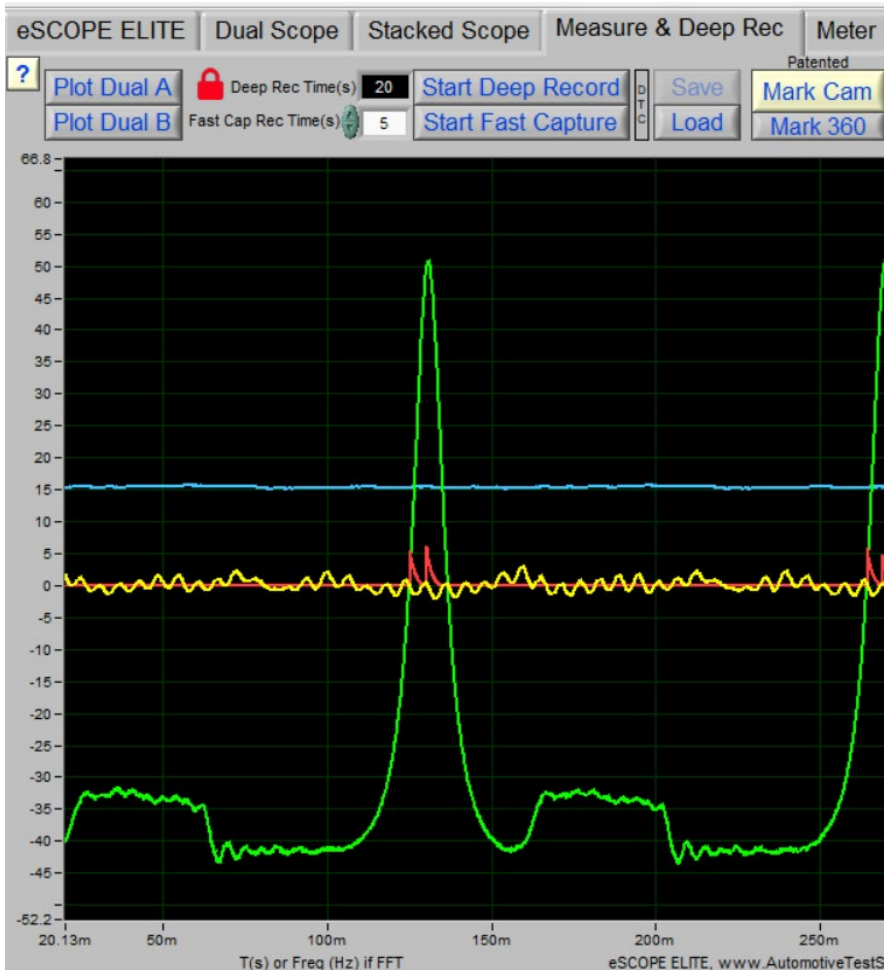
There may be times when you forgot to zero a transducer, in this example Channel 3, the 300 PSI transducer was not zeroed prior to the capture, we can fix that.



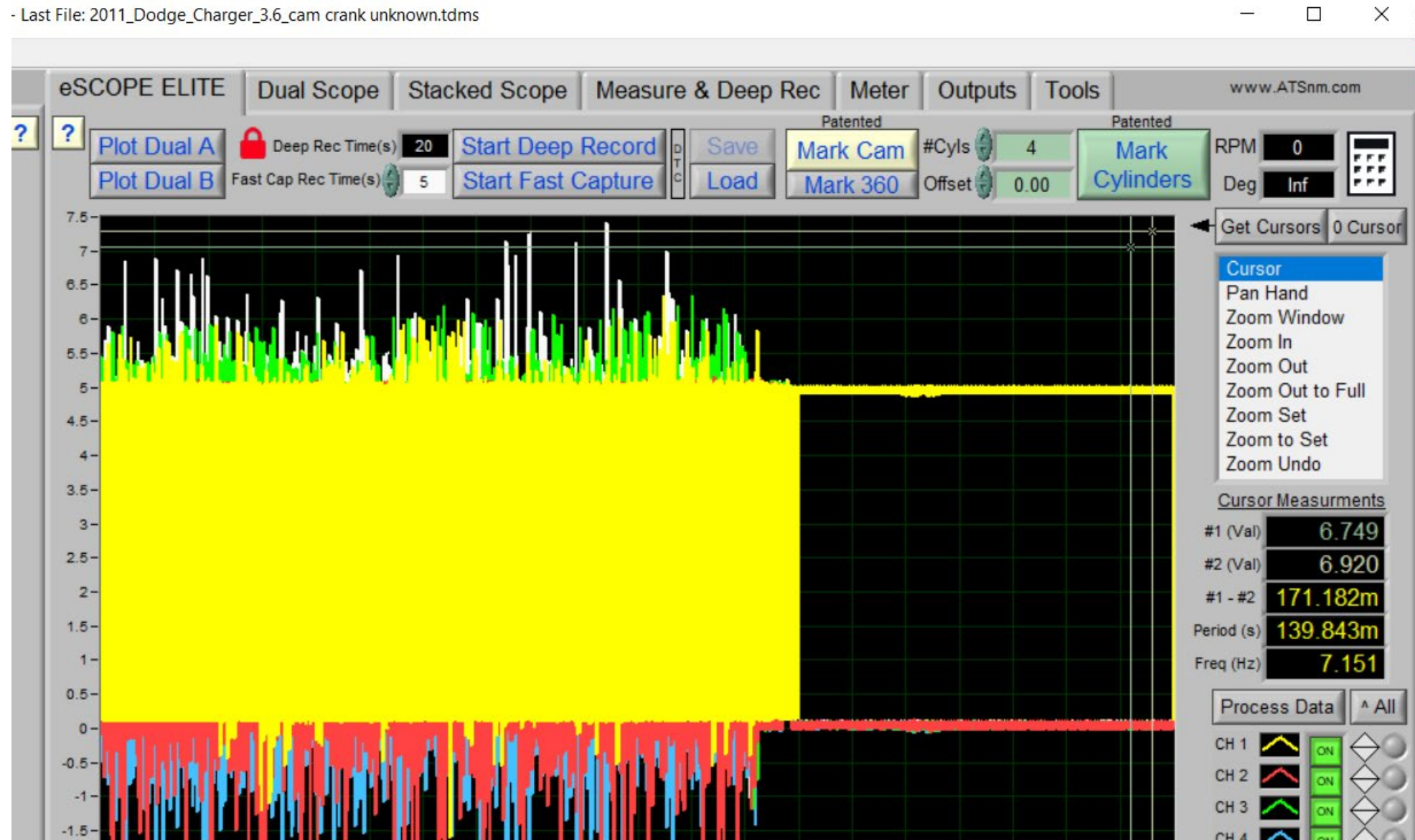
Zooming in, we can see that the exhaust plateau is approximately 35° off in the negative direction.

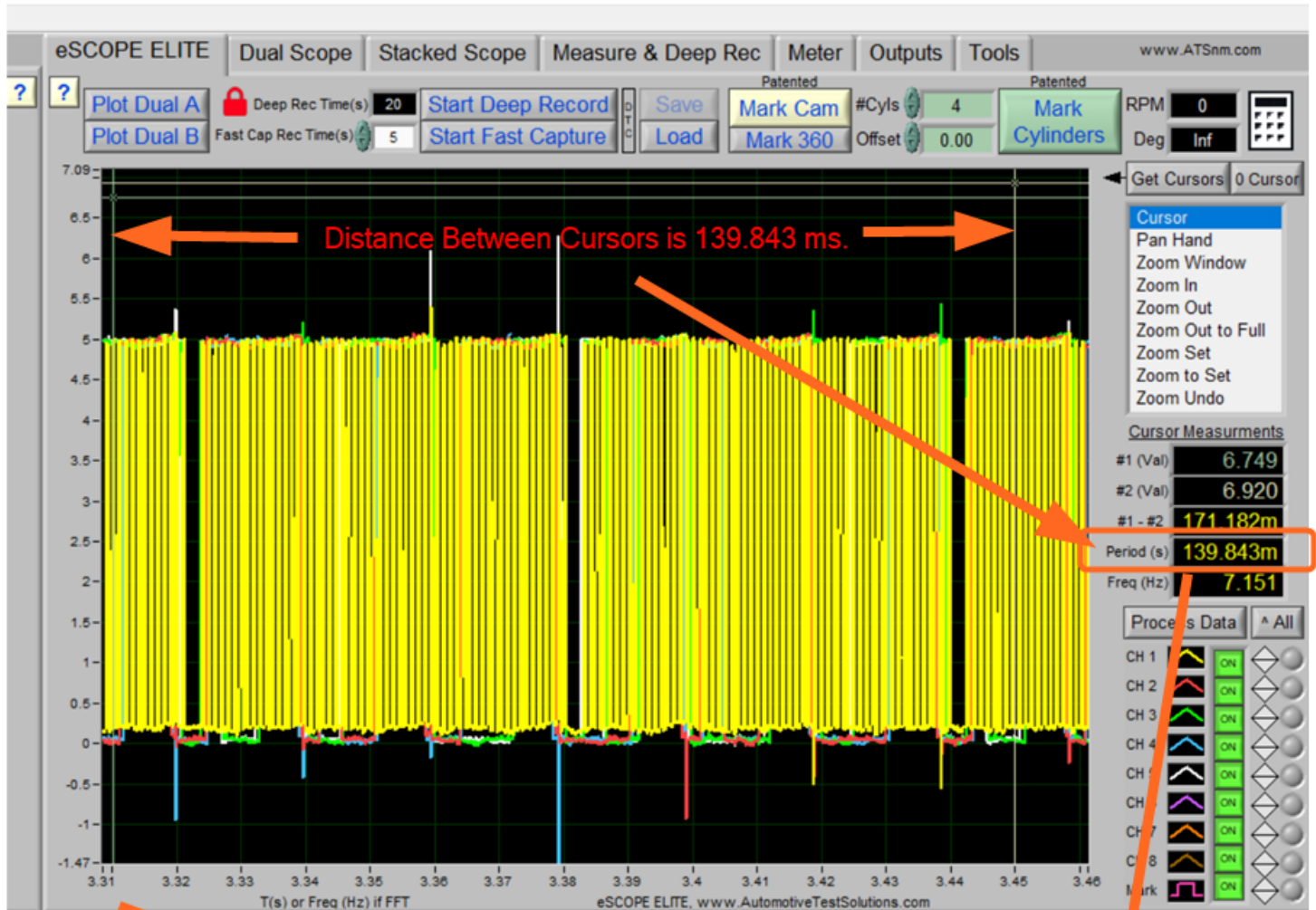
We are going to add an offset of +35° to correct this and then save the file which will make the change permanent.

Simply Save New Data File and the changes are there.



This was a long capture of a CKP and CMP, we are going to shorten the file to a little over 720°.





Crop File: Start Offset(s) 3.31000 Length(s) 0.139000

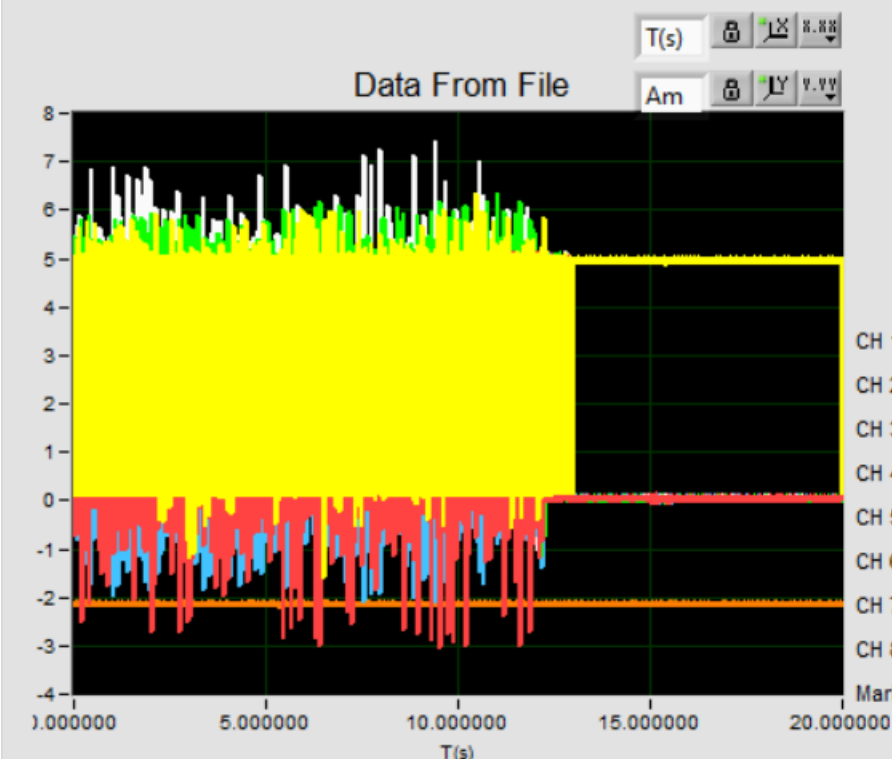
Switch Channels: Ch1 1 Ch2 2 Ch3 3 Ch4 4 Ch5 5 Ch6 6 Ch7 7 Ch8 8 Ch9 (Mark) 9

Offset Channels: Ch1 0.0 Ch2 0.0 Ch3 0.0 Ch4 0.0 Ch5 0.0 Ch6 0.0 Ch7 0.0 Ch8 0.0 Ch9 (Mark) 0.0

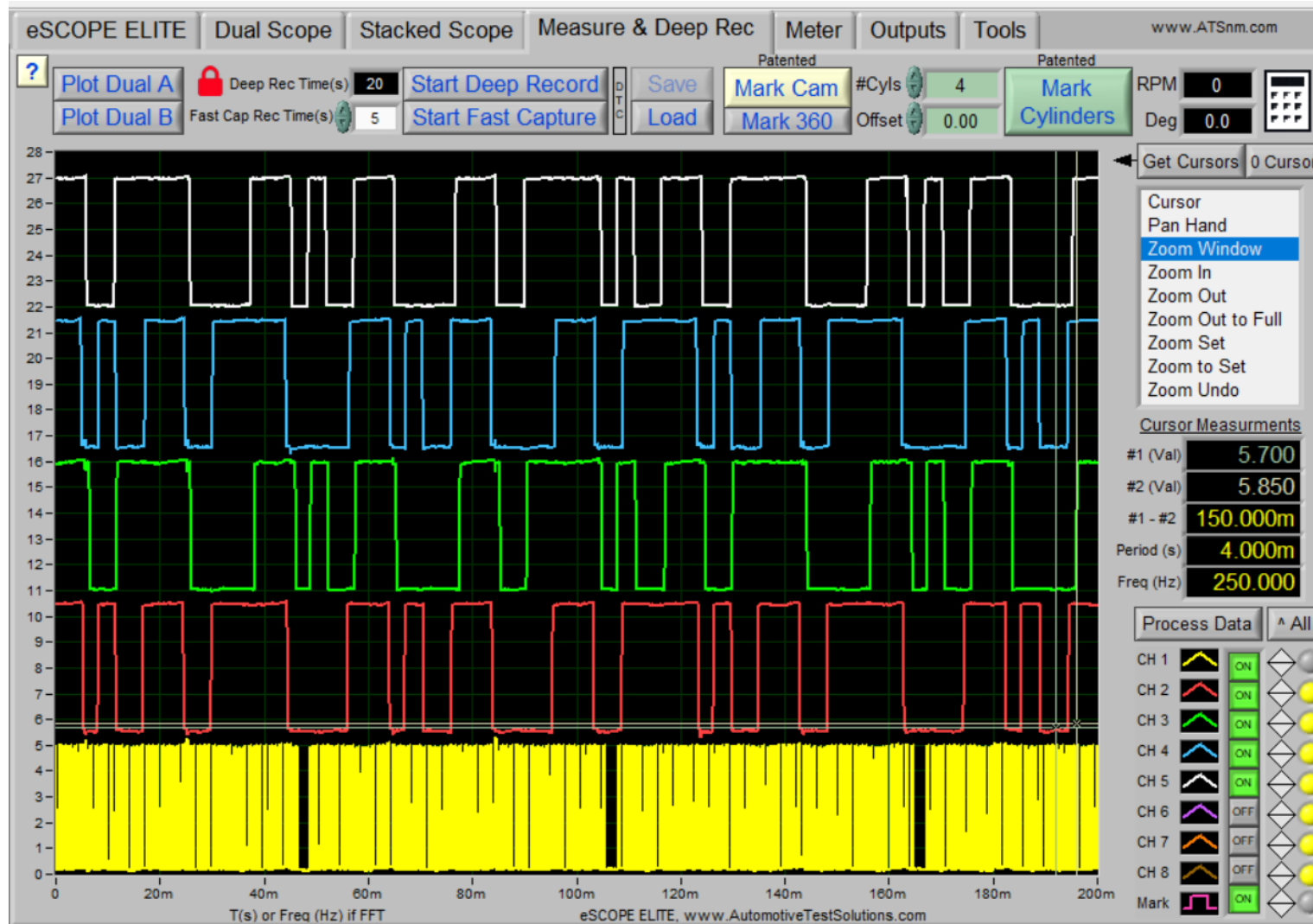
Crop File: Start Offset(s) 3.310000 Length(s) 0.139000 #Chs 5

Save New Data File

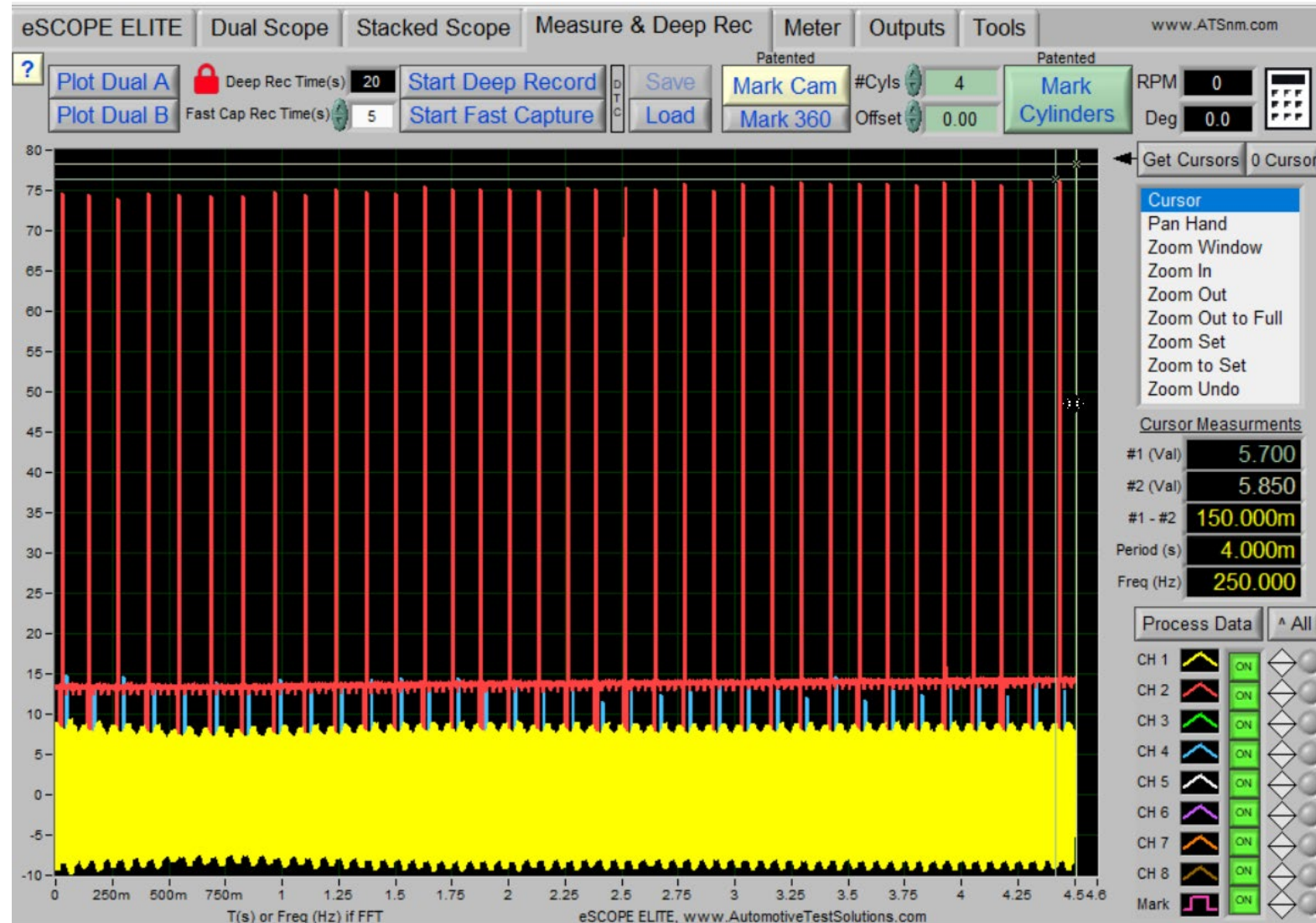
Cancel (Esc)



The cropped data file , zoomed out to full and channels separated



Swapping Channels, on this waveform I swapped channel 2(Fuel Injector) with channel 4 (coil)



File Tools Window Help

Controls Setup MultiTool CKP ? ? eSCOPE ELITE Dual Scope Stacked Scope Measure & Deep Rec Meter Outputs Tools www.ATSnm.com

Hold A (F1) ? ? Plot Dual A Plot Dual B Deep Rec Time(s) 20 Start Deep Record Save Load Mark Cam Mark 360 #Cyls 4 Mark Cylinders RPM 147 Deg 720.0

Fast Cap Rec Time(s) 5 Start Fast Capture

Load Data File

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File

Tool	eSCOPE ELITE	CH 1	CKP Signal
Time/Date	3/18/2024 3:44:07 PM	CH 2	Fuel Injector 1
Year	1995	CH 3	CMP Signal
Make	Toyota	CH 4	Ignition Coil 1
Model	Tacoma	CH 5	CKP Ground
Engine Size (L)	2.7	CH 6	CMP Ground
Transmission	Automatic	CH 7	
System	Engine	CH 8	
Firing Order	Unknown		

Sweep 40.0m

Known Good Unknown **Known Bad**

LOAD DATA **CANCEL**

Get Cursors 0 Cursor

Cursor

- Pan Hand
- Zoom Window
- Zoom In
- Zoom Out
- Zoom Out to Full
- Zoom Set
- Zoom to Set
- Zoom Undo

Cursor Measurements

#1 (Val)	64.433
#2 (Val)	65.965
#1 - #2	1.532
Period (s)	815.139m
Freq (Hz)	1.227

Process Data ^ All

CH 1		ON	
CH 2		ON	
CH 3		ON	
CH 4		ON	
CH 5		ON	
CH 6		ON	
CH 7		ON	
CH 8		ON	
Mark		ON	



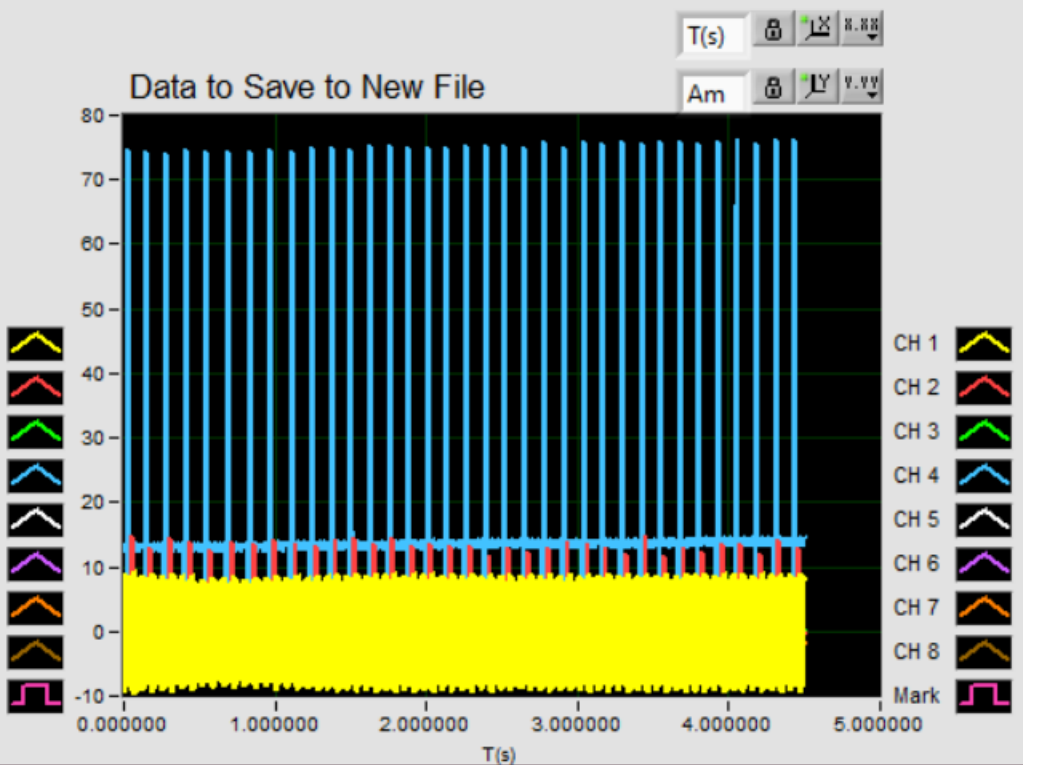
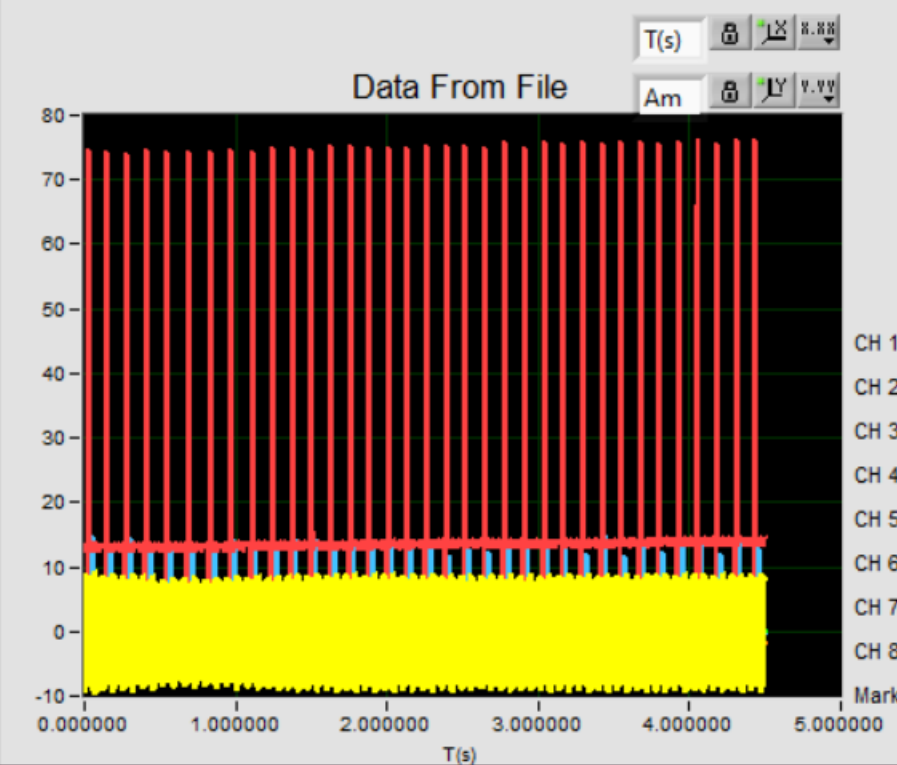
Modify Data File

Switch Channels: Ch1 1 Ch2 4 Ch3 3 Ch4 2 Ch5 5 Ch6 6 Ch7 7 Ch8 8 Ch9 (Mark) 9

Offset Channels: Ch1 0.0 Ch2 0.0 Ch3 0.0 Ch4 0.0 Ch5 0.0 Ch6 0.0 Ch7 0.0 Ch8 0.0 Ch9 (Mark) 0.0

Crop File: Start Offset(s) 0.000000 Length(s) 4.500000 #Chs 8

Save New Data File Cancel (Esc)



File Tools Window Help

Controls Setup MultiTool CKP ? eSCOPE ELITE Dual Scope Stacked Scope Measure & Deep Rec Meter Outputs Tools www.ATSnm.com

Channels Used, Max Ch Sample Rate ? ? Plot Dual A Deep Rec Time(s) 20 Start Deep Record Save Mark Cam #Cyls 4 Mark Cylinders RPM 0
 Channels 1-4, 250 kS/S (4uS resolution) Plot Dual B Fast Cap Rec Time(s) 5 Start Fast Capture Load Mark 360 Offset 0.00 Deg 0.0

Default Range ps Dual A & Stacked

Load Data File

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File

Tool	eSCOPE ELITE	CH 1	CKP Signal	Swapped 2 and 4
Time/Date	3/18/2024 3:48:46 PM	CH 2	Ignition Coil 1	
Year	1995	CH 3	CMP Signal	
Make	Toyota	CH 4	Fuel Injector 1	
Model	Tacoma	CH 5	CKP Ground	
Engine Size (L)	2.7	CH 6	CMP Ground	
Transmission	Automatic	CH 7		
System	Engine	CH 8		

Known Good Unknown **Known Bad**

Sweep 40.0m

Dual Location
 Dual A
 Dual B

LOAD DATA **CANCEL**

