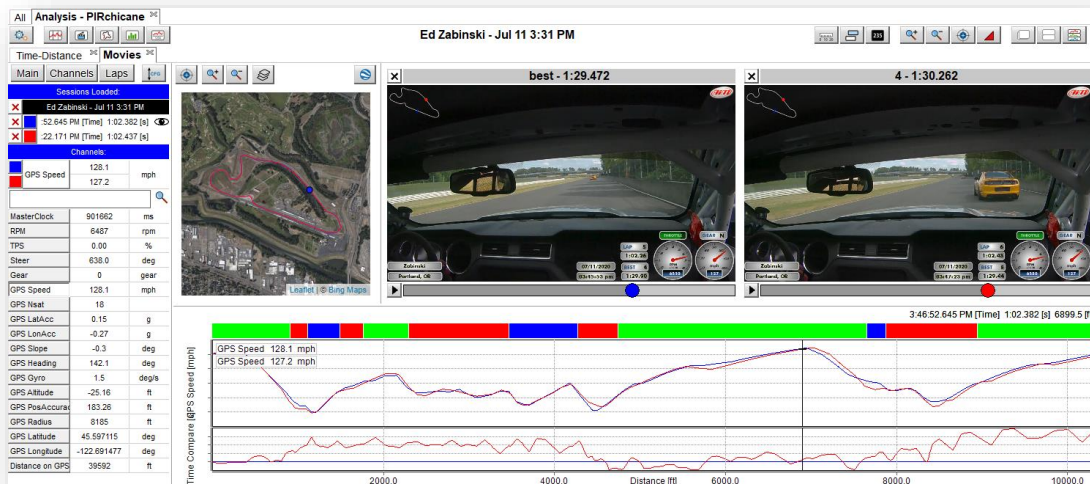




Co-Host:
Emiliano Bina
AiM-Sportline Software Developer

Webinar Series

Bringing Data Support and Training to You

Race Studio 3 Analysis
More Info on the Public Beta Version

2020 Webinar #35

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July 28th, 2020

1.800.718.9090

Measures and laps
Measures Laps User Profiles
1 - MATHS_Andrew_MuleH3_VIR_VA_Warm-up [0]
[distance base]
Per Lap Color
MATHS_Andrew_M
4.02.11.308
Emiliano Bina
software@aim-sportline.com



Emiliano Bina

AiM-Sportline Software Developer

- Software Developer for AiM Since 2000
- Deep Passion for Motorsport for Many Years
- Past SIM Racing Passion that is Coming Back 😊





Change Analysis Layout

RaceStudio3 (64 bit) 3.50.08 - build July 27, 2020 8:33 PM



All Analysis - ClubMotors

Time-Distance

Main Channels Laps

Sessions Loaded:

MXP [ID: 6700141] - September 8, 2019 2:31 PM

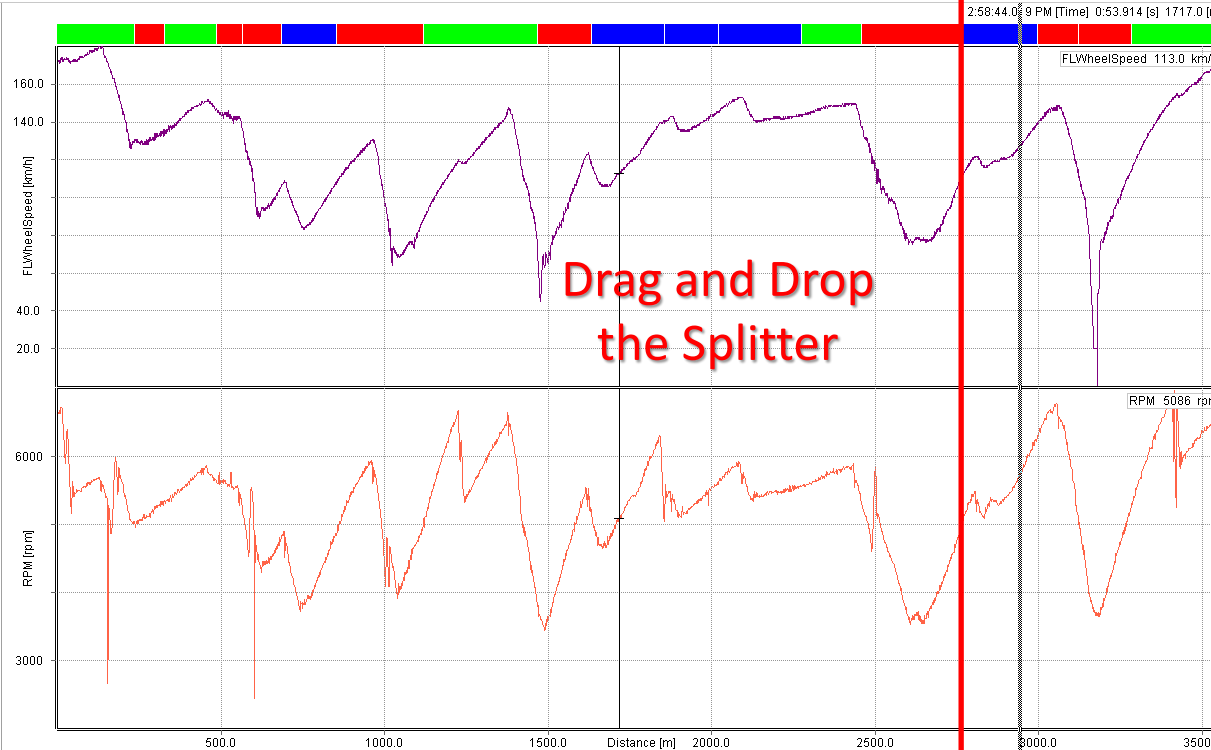
best - 1:47.828 2:58:44.019 PM [Time] 0:53.914 [s]

Channels:

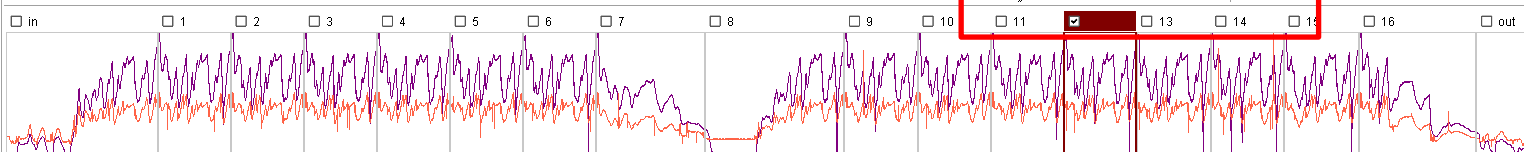
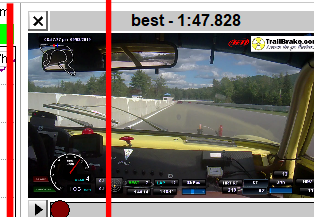
RPM	5086	rpm
FLWheelSpeed	113.0	km/h
Logger Temperature	37.1	C
External Voltage	12.7	V
RPM	5086	rpm
FLWheelSpeed	113.0	km/h
FRWheelSpeed	110.0	km/h
FLShock	55	mm
FRShock	68	mm
RRShock	76	mm
RLShock	16	mm
SteeringPosition	-28.8	deg
BrakePressure	0.80	bar
FLTireTemp	68.9	C
FRTireTemp	-25.4	C
InlineAcc	0.12	g
LateralAcc	-1.06	g
VerticalAcc	-0.96	g
RollRate	-10.4	deg/s
PitchRate	-2.1	deg/s
YawRate	-15.5	deg/s
Luminosity	103.01	%
Calculated Gear	3	#
LinearCorr	0	

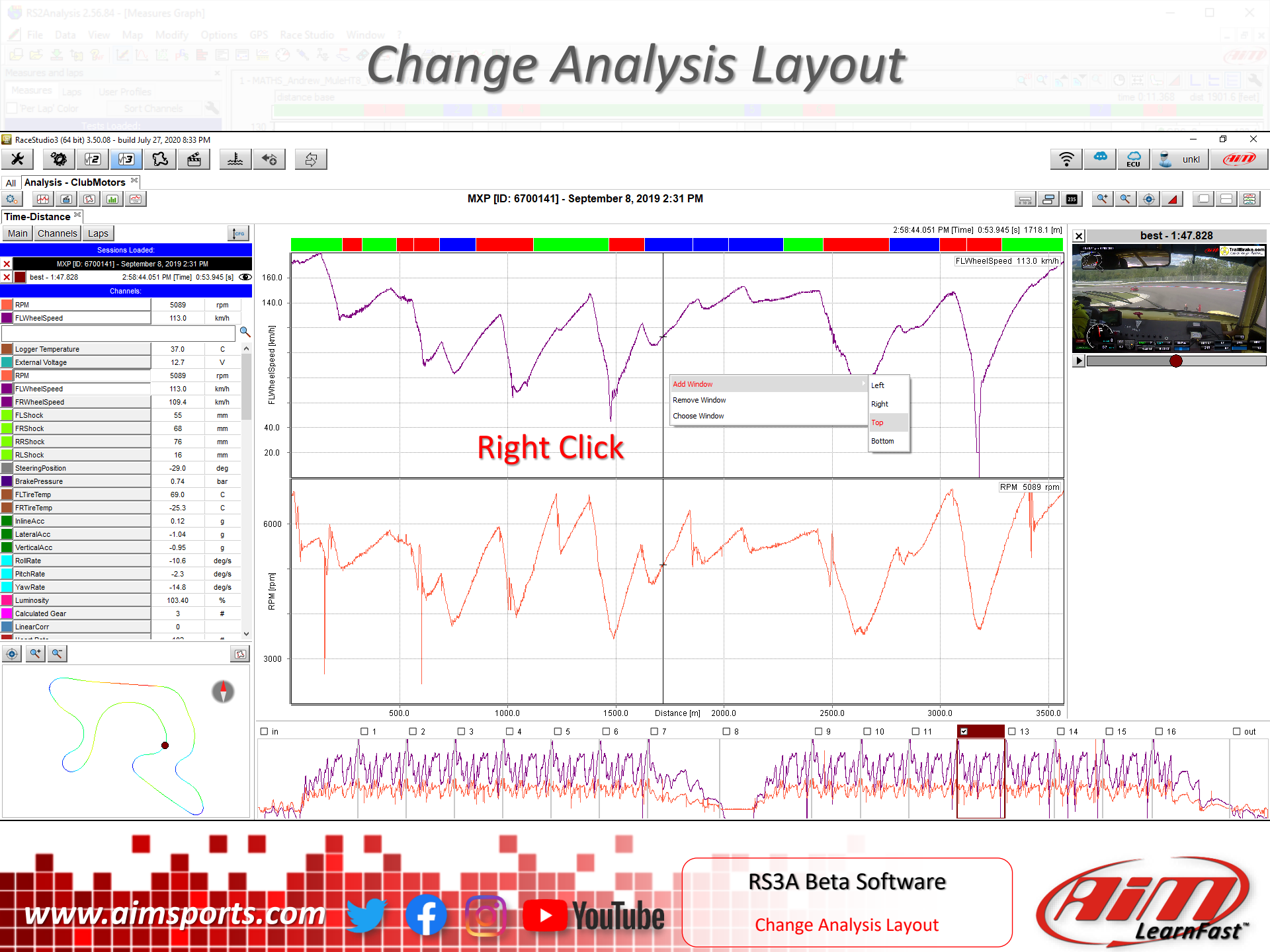


MXP [ID: 6700141] - September 8, 2019 2:31 PM



Drag and Drop
the Splitter







Analysis - ClubMotors

Time-Distance

Channels

Sessions Loaded:

MXP [ID: 6700141] - September 8, 2019 2:31 PM

best - 1:47.828

Channels:

Logger Temperature	C
External Voltage	V
RPM	rpm
FLWheelSpeed	km/h
FRWheelSpeed	km/h
FLShock	mm
FRShock	mm
RRShock	mm
RLShock	mm
SteeringPosition	deg
BrakePressure	bar
FLTireTemp	C
FRTireTemp	C
InlineAcc	g
LateralAcc	g
VerticalAcc	g
RollRate	deg/s
PitchRate	deg/s
YawRate	deg/s
Luminosity	%
Calculated Gear	#
LinearCorr	#
Heart Rate	#
RR Value	#
HR Zone	#
Energy Burn	#
Exertion	#
HR Variability	#
Unit Number	#
HR Confidence	#
Link Quality	#
Core Temp	#
HR Accel Peak	#
Breathing Rate	#
Breathing Wave	#
HR Vert Accell	#
HR Lat Accell	#
HR Long Accell	#

MXP [ID: 6700141] - September 8, 2019 2:31 PM

best - 1:47.828

Right Click

Add Window

Remove Window

Choose Window

Left

Right

Top

Bottom

08:57:27 pm 09/08/2019

TrailBrake.com

Learn to go faster...

105 MPH

GEAR 4

1:48.14

1:48.41

219

87

11

in

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

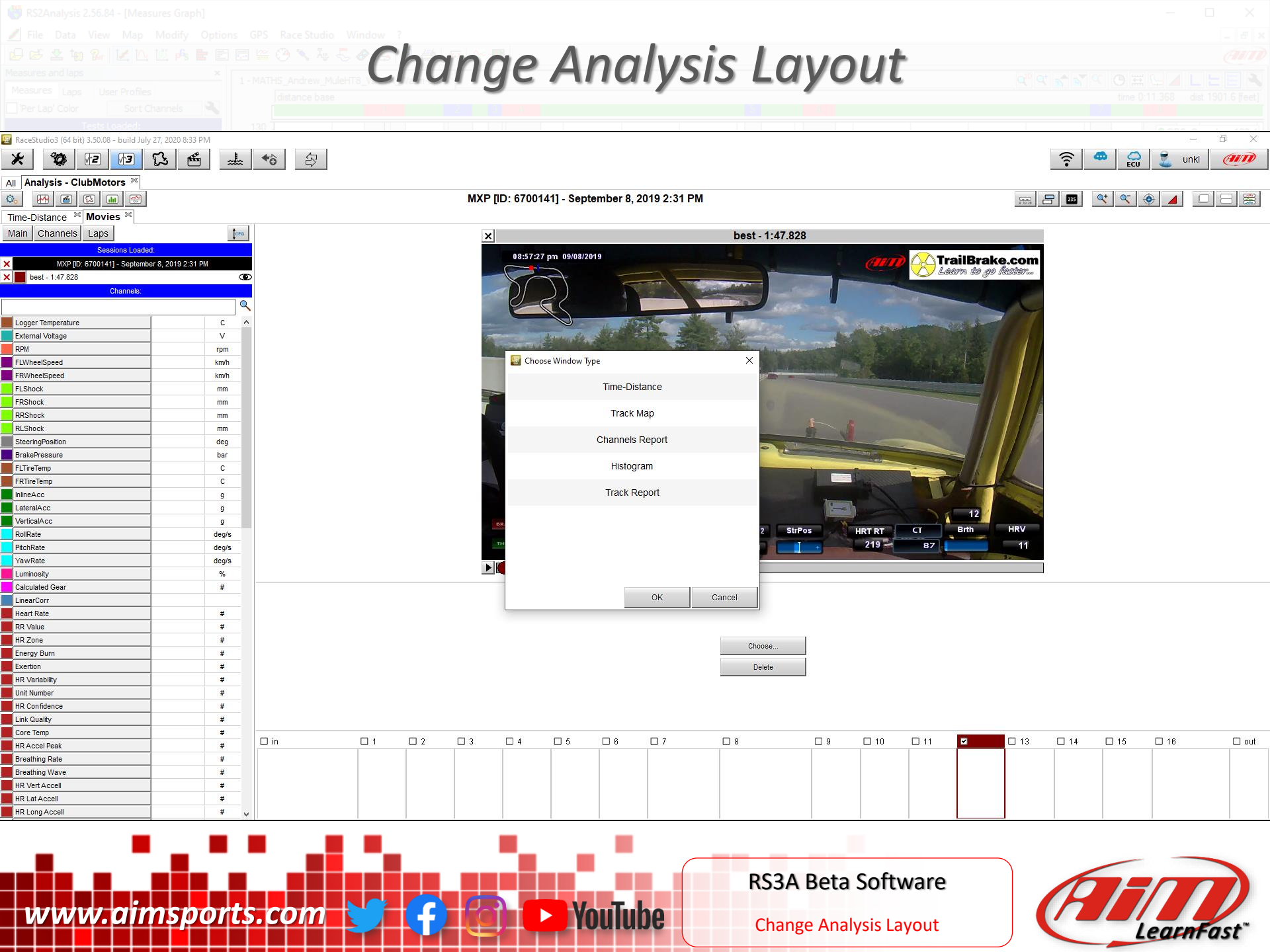
out

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YouTube

RS3A Beta Software

Change Analysis Layout



Change Analysis Layout

MXP [ID: 6700141] - September 8, 2019 2:31 PM

best - 1:47.828

Choose Window Type

Time-Distance

Track Map

Channels Report

Histogram

Track Report

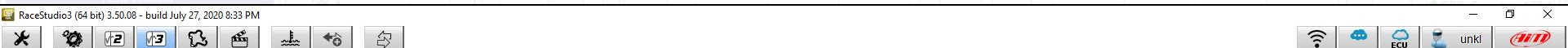
OK

Cancel

Choose...

Delete

☐ In	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8	☐ 9	☐ 10	☐ 11	☒ 12	☐ 13	☐ 14	☐ 15	☐ 16	☐ out



The screenshot displays the RaceStudio3 software interface. At the top, a title bar reads "RS2Analysis 2.56.84 - [Measures Graph]". Below this is a menu bar with options: File, Data, View, Map, Modify, Options, GPS, RaceStudio, and Window. A toolbar with various icons is positioned below the menu bar. The main workspace is divided into several panels. On the left, a "Measures and laps" panel shows a list of measures and a "Per Lap Color" checkbox. In the center, a plot titled "1 - MATHS_Andrew_MuleHT3" displays a "distance base" graph with a color-coded bar. On the right, a status bar shows "time 0:11.368" and "dist 1901.6 feet". At the bottom, a status bar displays "RaceStudio3 (64 bit) 3.50.08 - build July 27, 2020 8:33 PM" and a toolbar with icons for various functions. The bottom right corner shows a system tray with icons for Wi-Fi, ECU, and other hardware. The text "MXF [ID: 6700141] - September 8, 2019 2:31 PM" is visible in the bottom right corner of the interface.

Settings

Save Profile

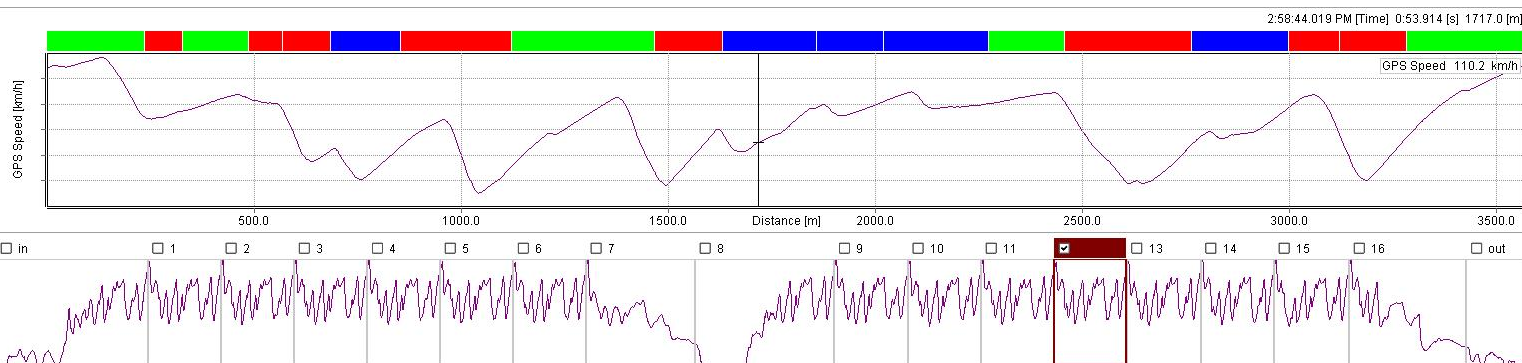
Unlock profile

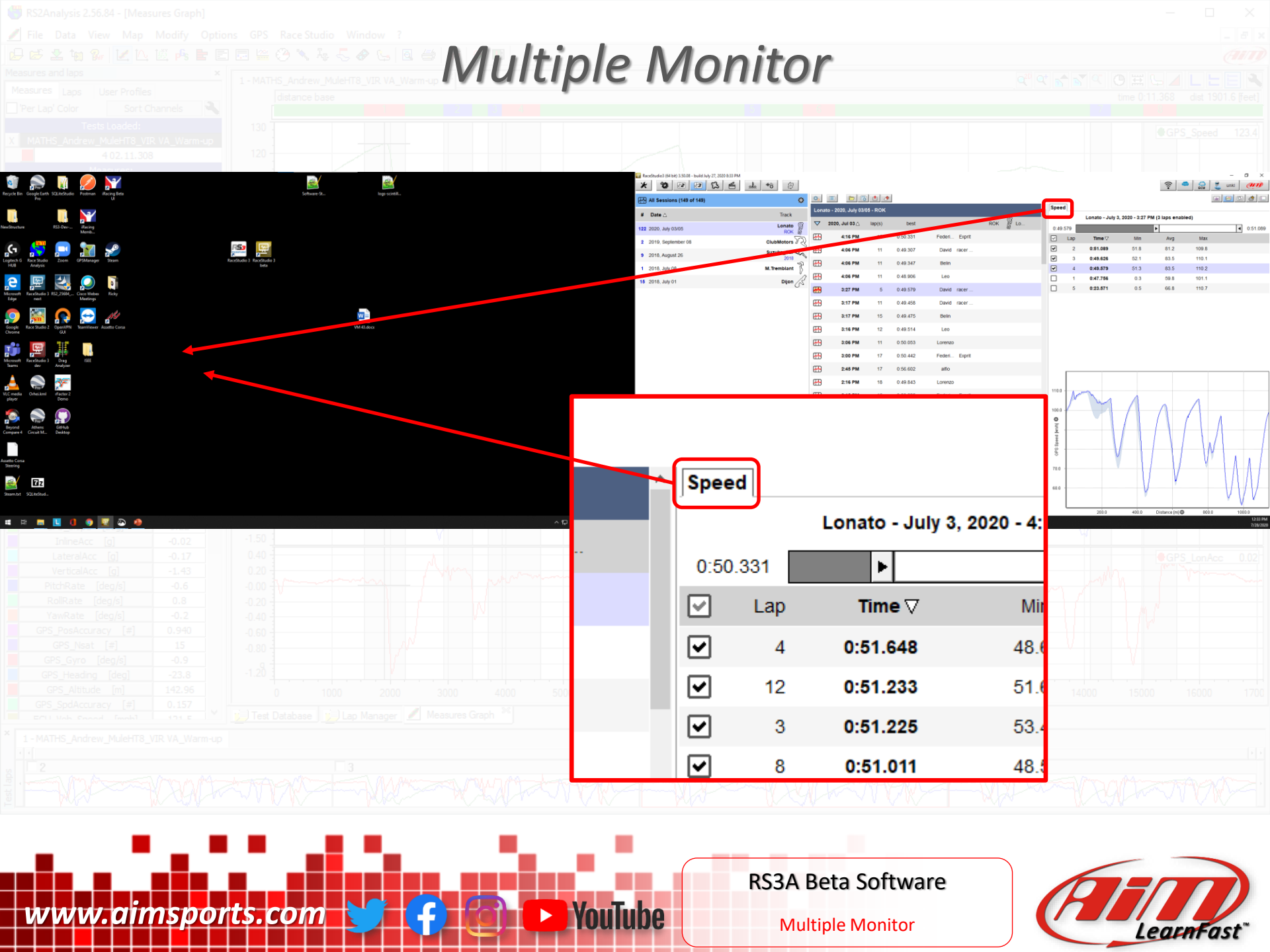
X best - 1:47.828 2:58:44.019 PM [Time] 0:53.914 [s]

Channels:		
GPS Speed	110.2	km/h
Logger Temperature	37.1	C
External Voltage	12.7	V
RPM	5086	rpm
FLWheelSpeed	113.0	km/h
FRWheelSpeed	110.0	km/h
FLShock	55	mm
FRShock	68	mm
RRShock	76	mm
RLShock	16	mm
SteeringPosition	-28.8	deg
BrakePressure	0.80	bar
FLTireTemp	68.9	C
FRTireTemp	-25.4	C
InlineAcc	0.12	g
LateralAcc	-1.06	g
VerticalAcc	-0.96	g
RollRate	-10.4	deg/s
PitchRate	-2.1	deg/s
YawRate	-15.5	deg/s
Luminosity	103.01	%
Calculated Gear	3	#
LinearCorr	0	#
Heart Rate	102	#
HR Value	41	#
HR Zone	1	#
Energy Burn	124	#
Exertion	29	#
HR Variability	13	#
Unit Number	0	#
HR Confidence	0	#
Link Quality	0	#
Core Temp	321	#
HR Accel Peak	0	#
Breathing Rate	0	#
Breathing Wave	0	#
HR Vert Accell	0	#
HR Lat Accell	0	#

GPS Speed [km/h]

☐ in





Multiple Monitor

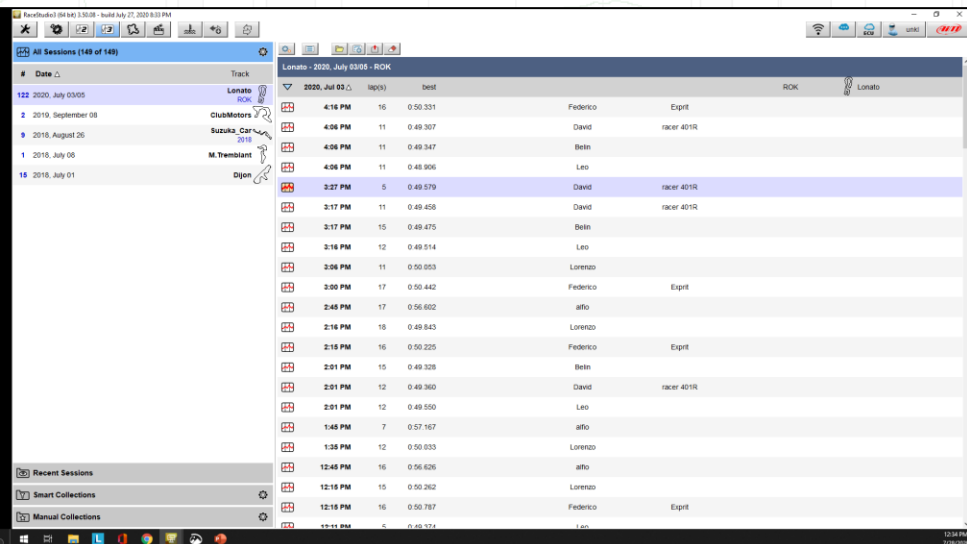
Speed

Speed

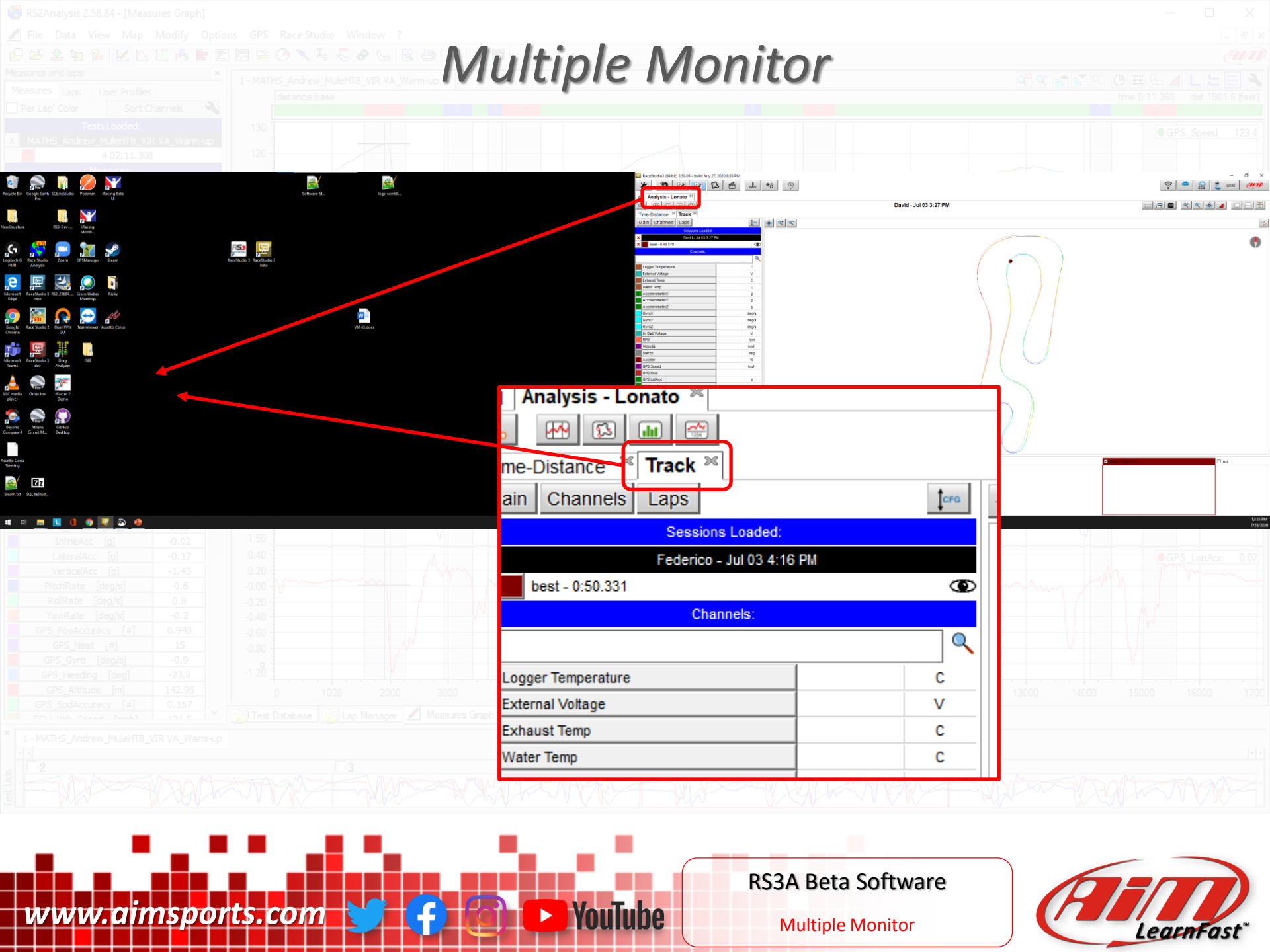
Lonato - July 3, 2020 - 4:

0:50.331

☒	Lap	Time ▾	Min
☒	4	0:51.648	48.6
☒	12	0:51.233	51.6
☒	3	0:51.225	53.4
☒	8	0:51.011	48.5



Close the Window to Place it Back



Multiple Monitor

Analysis - Lonato

Time-Distance **Track** Channels Laps

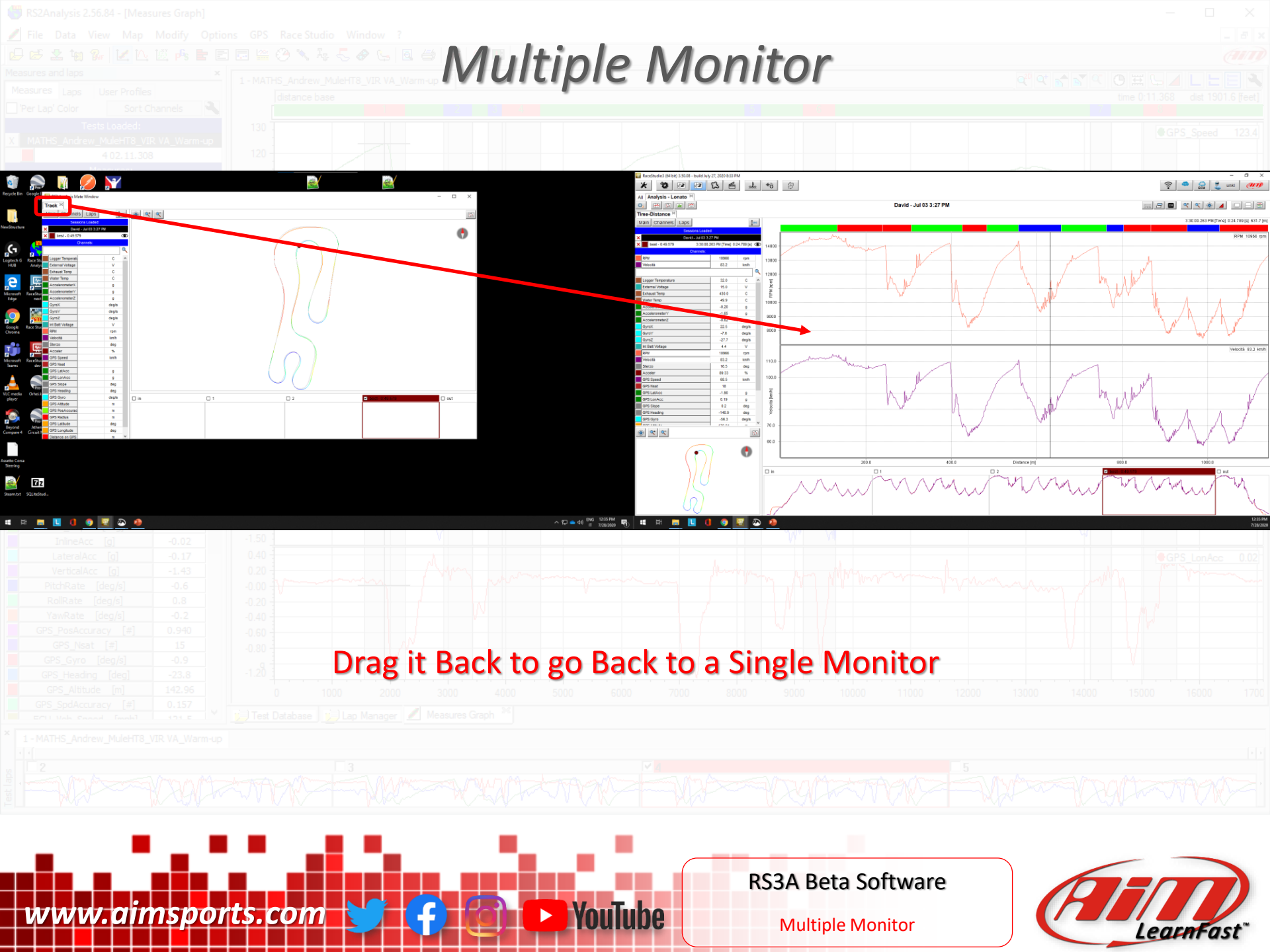
Sessions Loaded:

Federico - Jul 03 4:16 PM

best - 0:50.331

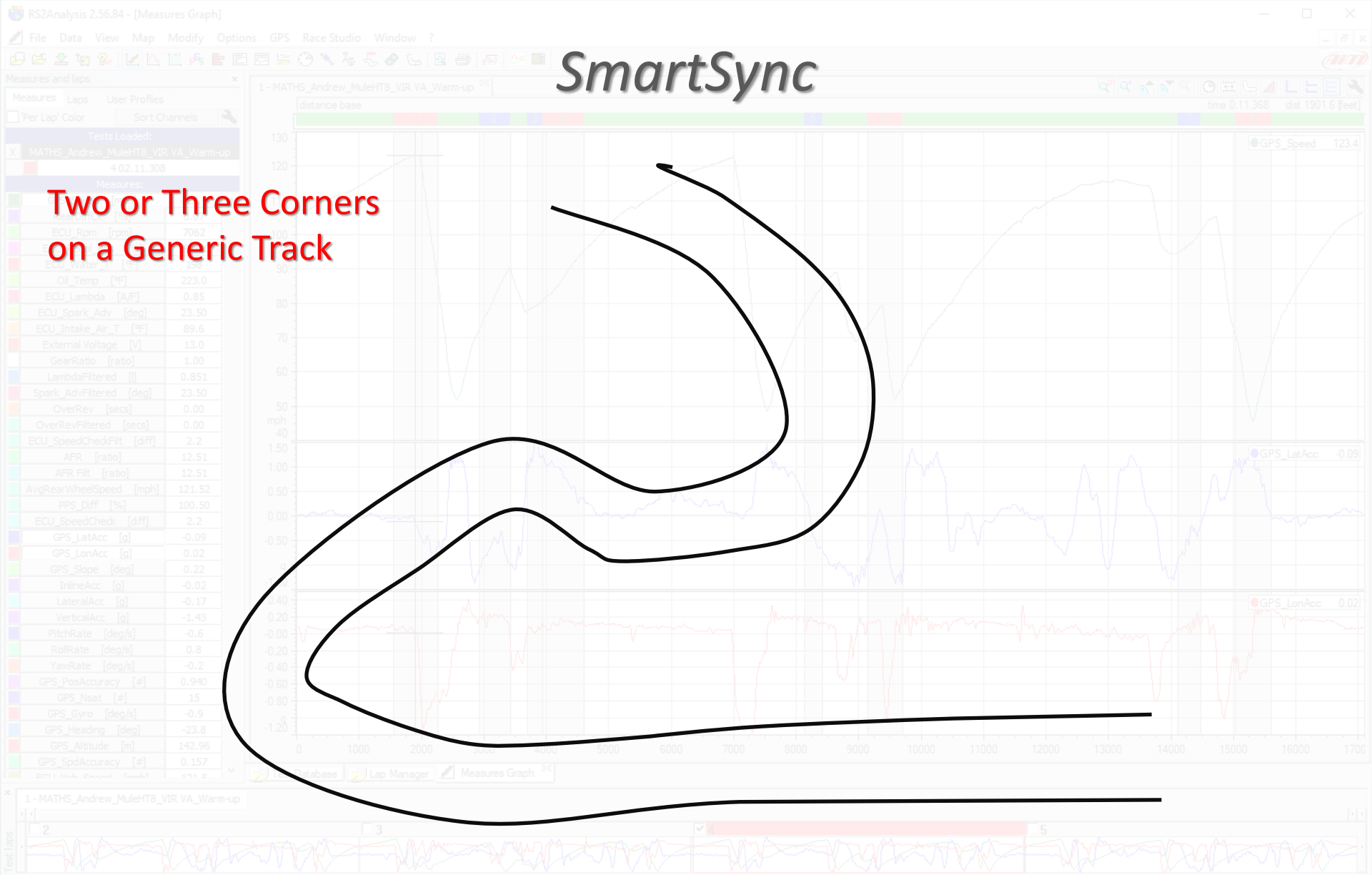
Channels:

Logger Temperature	C
External Voltage	V
Exhaust Temp	C
Water Temp	C

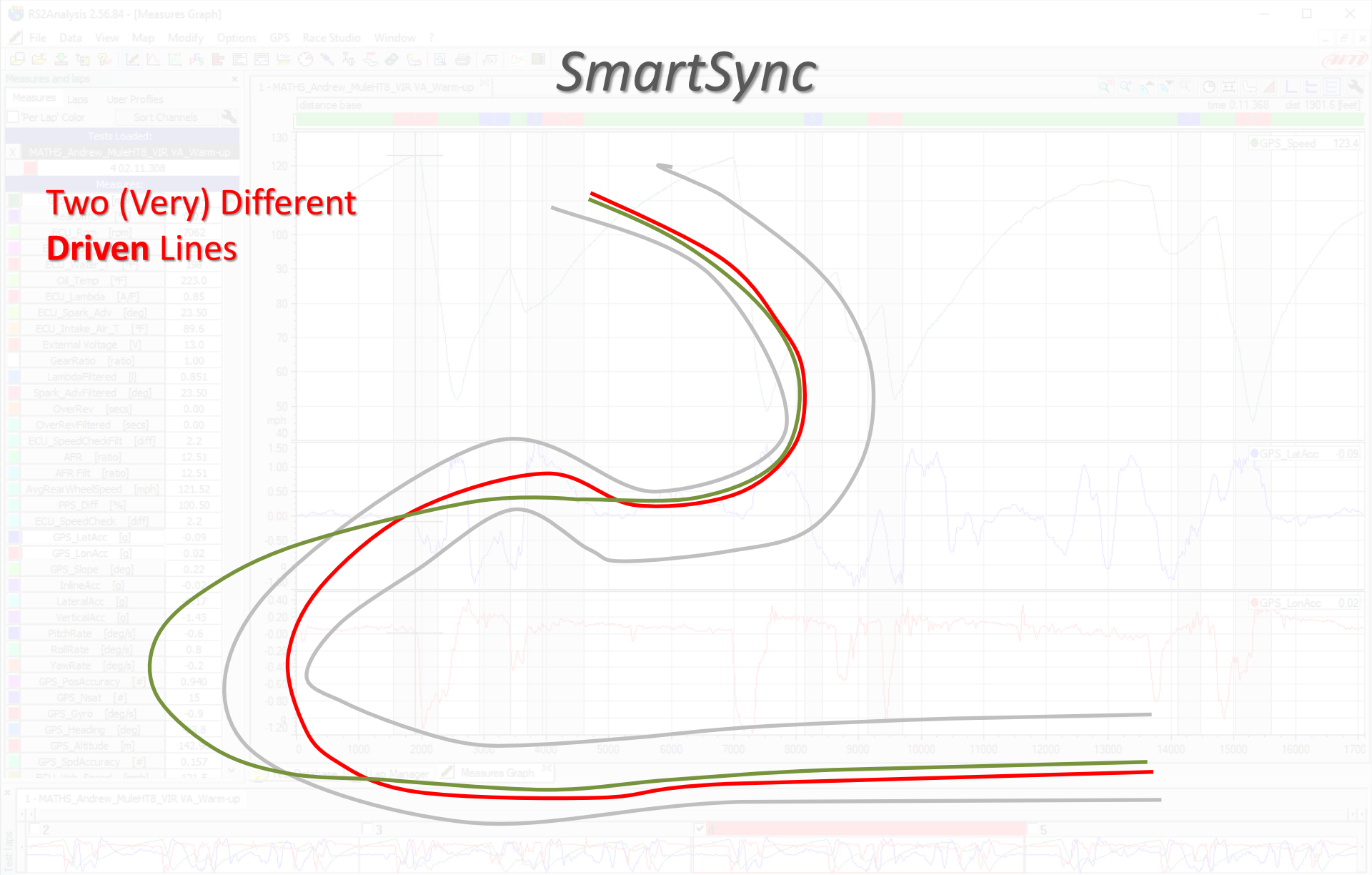


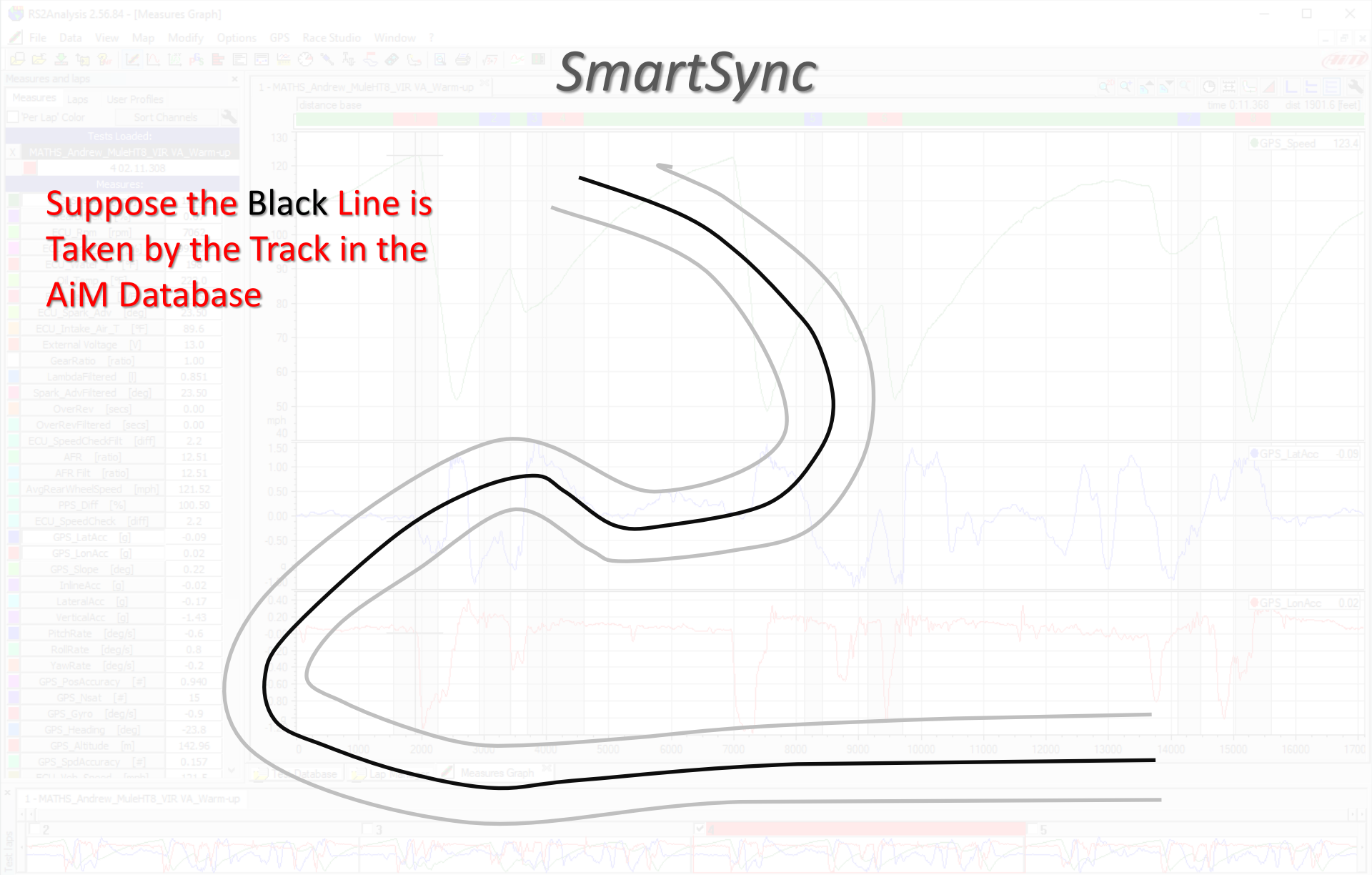
Multiple Monitor

Drag it Back to go Back to a Single Monitor

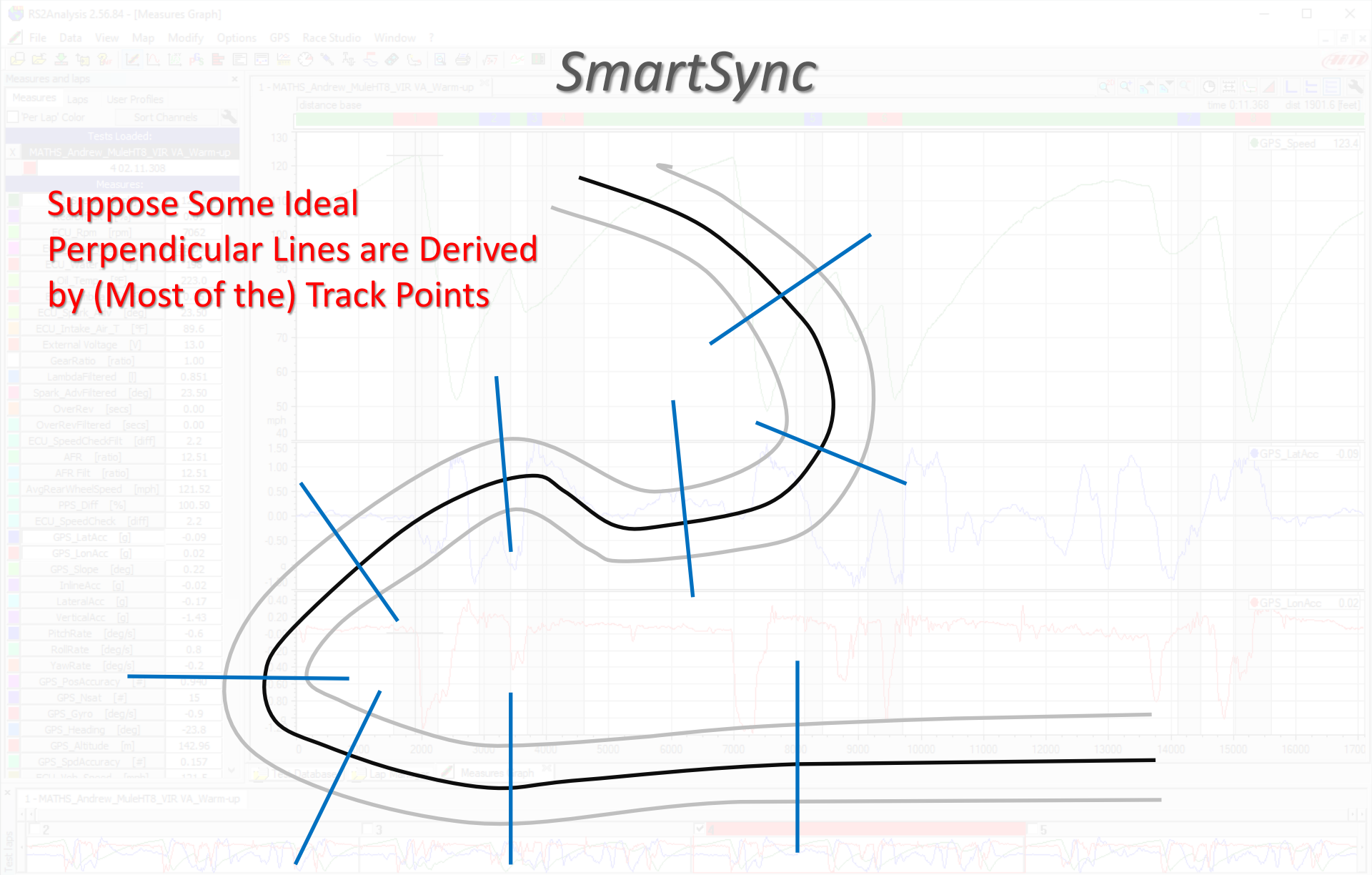


Two or Three Corners
on a Generic Track

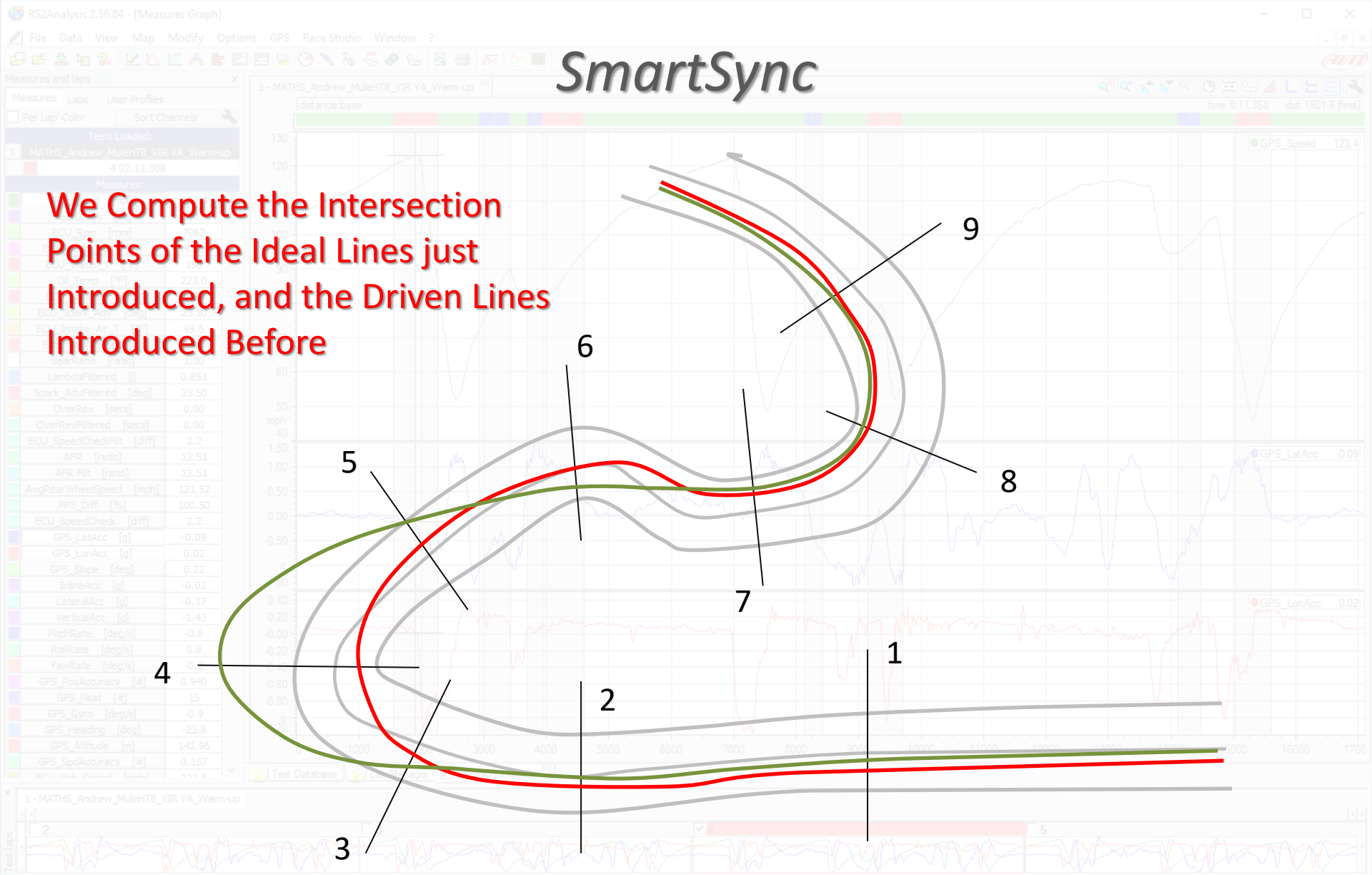




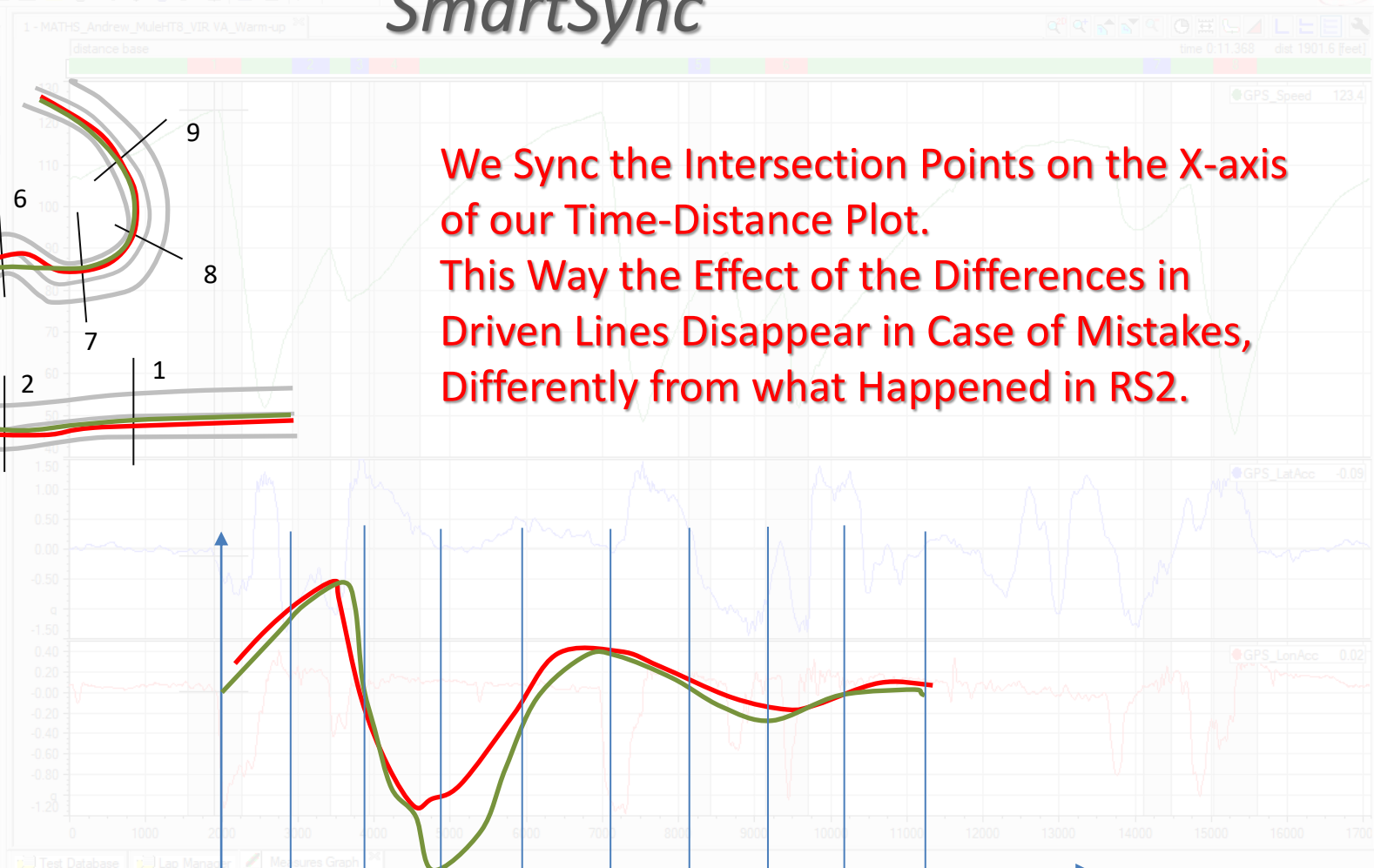
Suppose the Black Line is Taken by the Track in the AiM Database



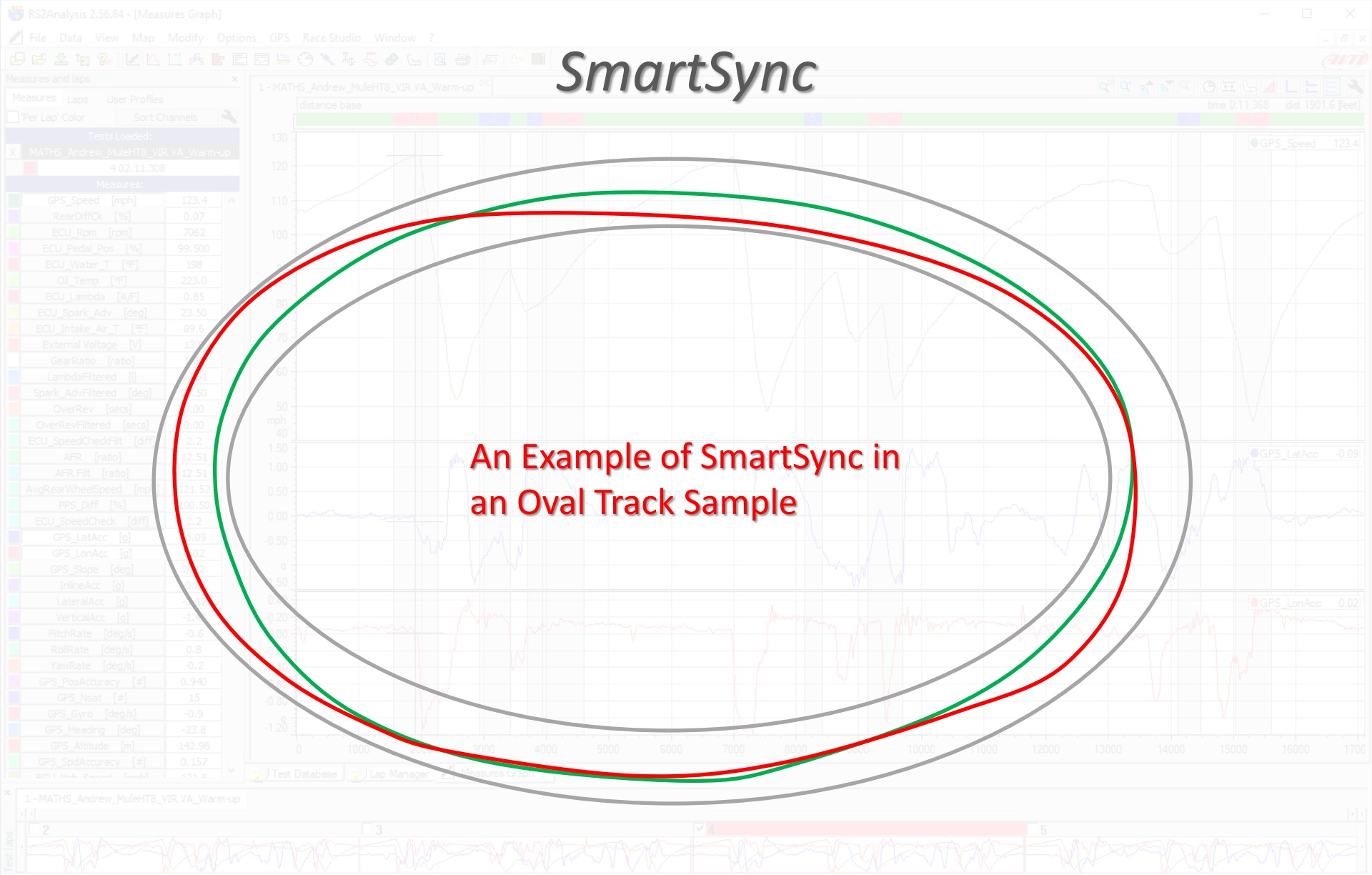
Suppose Some Ideal
Perpendicular Lines are Derived
by (Most of the) Track Points

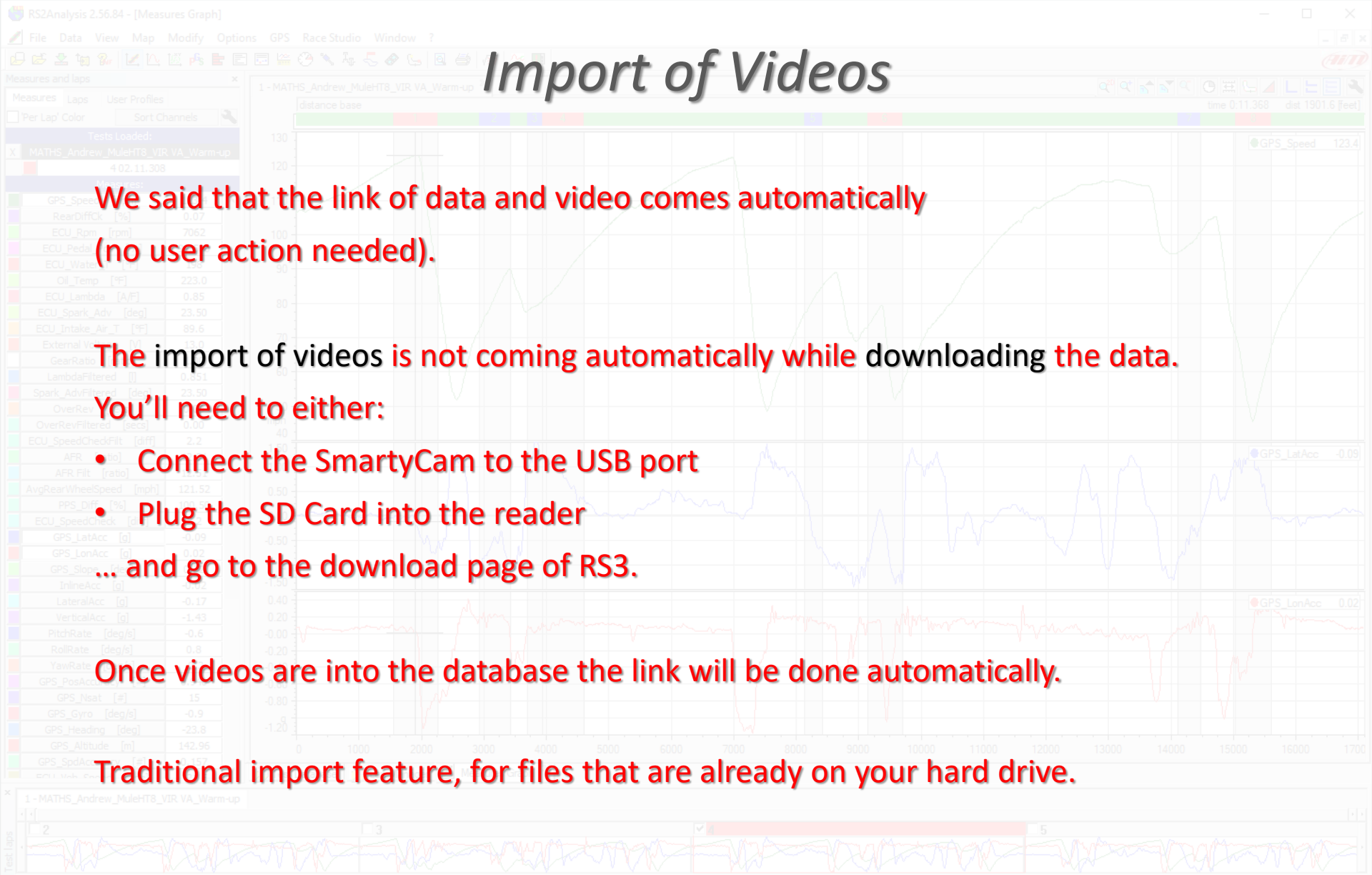


We Compute the Intersection Points of the Ideal Lines just Introduced, and the Driven Lines Introduced Before



We Sync the Intersection Points on the X-axis of our Time-Distance Plot.
This Way the Effect of the Differences in Driven Lines Disappear in Case of Mistakes, Differently from what Happened in RS2.





Import of Videos

We said that the link of data and video comes automatically (no user action needed).

The import of videos is not coming automatically while downloading the data.

You'll need to either:

- Connect the SmartyCam to the USB port
- Plug the SD Card into the reader

... and go to the download page of RS3.

Once videos are into the database the link will be done automatically.

Traditional import feature, for files that are already on your hard drive.

Import of Videos

RaceStudio3 (64 bit) 3.50.08 - build July 27, 2020 8:33 PM

Utilities

Connected Devices

Smarty-SD id 888035 [F:]

Smarty-SD id 888035 [F:]

Download

Tracks

Download

Unhide Downloaded

Delete

Refresh List



☒ 1 selected 1682.9 MBytes

☒ May 24

☐ May 30

1 selected 1682.9 MBytes

☒ May 28 4:50 AM

0

1



SCHD0359.MOV

1.64 GB





RaceStudio3 (64 bit) 3.50.08 - build July 27, 2020 8:33 PM

All Sessions (149 of 149)

#	Date	Track
122	2020, July 03/05	Lonato ROK
2	2019, September 08	ClubMotors
9	2018, August 26	Suzuka_Car 2018
1	2018, July 08	M.Tremblant
15	2018, July 01	Dijon

Recent Sessions

Smart Collections

Manual Collections

ClubMotors - 2019, September 08

2019, Sep 08

lap(s)	best	
2:31 PM	18	1:47.828

Speed

ClubMotors - September 8, 2019 - 2:31 PM (13 laps enabled)

1:47.828

1:51.579

Lap	Time	Min	Avg	Max
4	1:48.677	69.7	117.9	180.5
6	1:48.599	73.2	117.9	176.7
12	1:48.416	69.8	118.1	180.6
5	1:48.178	69.9	118.5	180.3

GPS Speed [km/h]

80.0

500.0

1000.0

2500.0

3000.0

3500.0

Distance [m]

12

5

7

13

www.aimsports.com



YouTube

RS3A Beta Software

Preview of Videos




aim-sportline.com/rs3-docs/index.htm

RS3Analysis Database Analysis Registration Feedback Release History

RS3Analysis

Database

All data into a **database**, to allow a quicker availability of **bigger quantities of data**. The xrk files saved by AiM devices contain more information, if compared to drk files. The technology embedded in our database let us take all the benefits of these information.

Upon download, all new data will be automatically added to the database, with a minimum time spent in the operation, roughly the same as the time spent converting into the drk format.

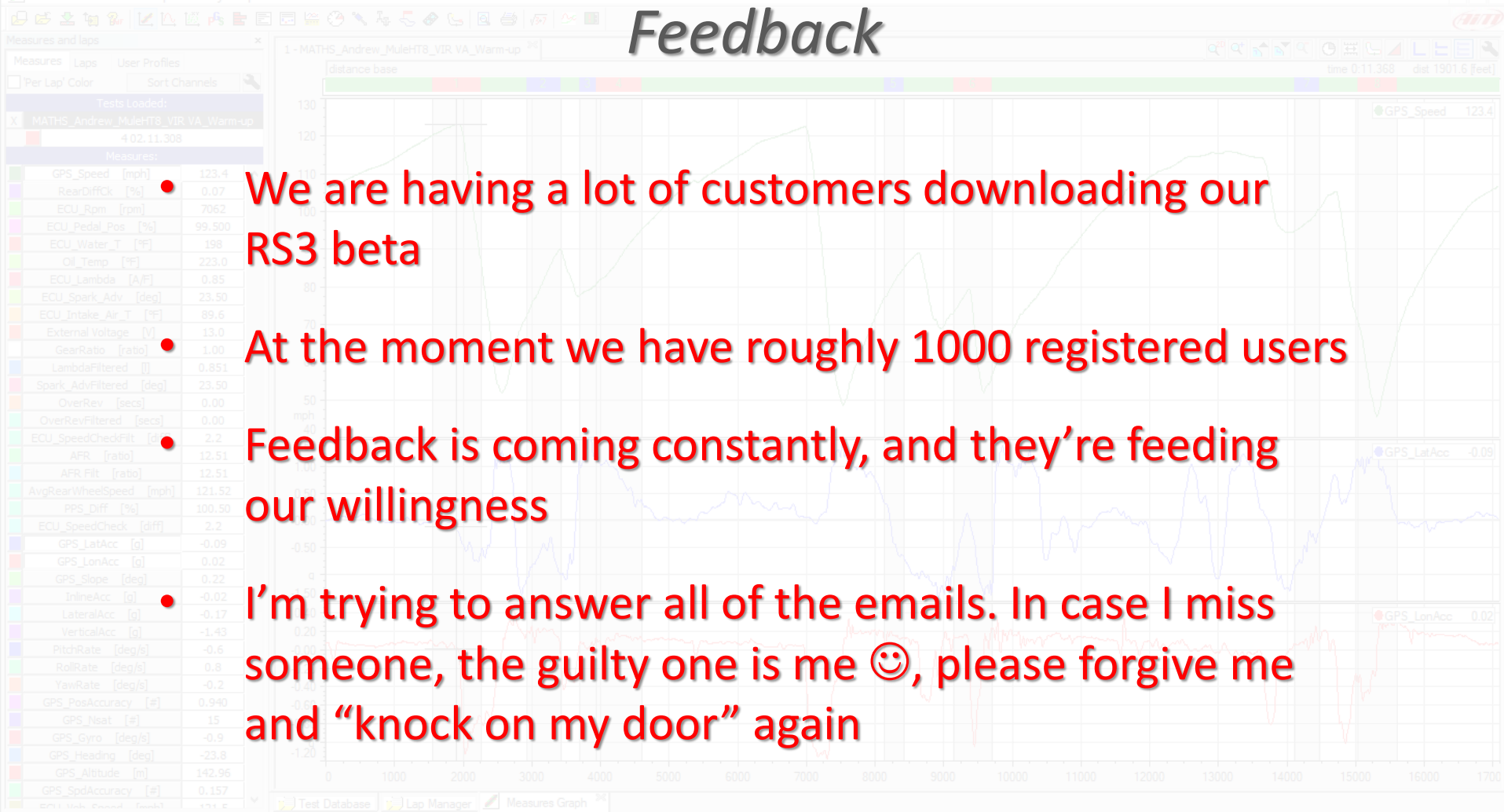
Importing previous data into the database is rather simple: you can either choose whether to import all sessions data contained into a specific folder (and its subfolders) or directly choose which xrk (and/or mov) data files to import.

During the import process, the database engine will be **automatically recognizing which xrk and mov files are linkable** and will purpose them as linked. For this to be happening automatically you need a recent firmware (roughly maximum one year old now, and SmartyCam must have been connected to the device while logging).

There's a document that gives directions upon adding or importing sessions into the database.

Preview feature, allowing users to check some sessions information without opening the session for analysis. The preview window prompts different information, dedicated, for every session mode: on track racing, oval racing, performances, dragsters...

- Laps Report, useful to look into the most relevant channel(s) values before opening a session in analysis;
 - Change channel;
 - Zoom with mouse wheel;
 - Mouse over lap in graphic colors the lap red in the list;
 - Sort by lap time or by lap order or by value;
- Laps Summary, useful to analyze data trends from one or more sessions;
 - Add/remove a channel;
 - Change plot axes;
- Track Map, for a quick view at driven lines;
- Weather, to keep more information under control.



- We are having a lot of customers downloading our RS3 beta
- At the moment we have roughly 1000 registered users
- Feedback is coming constantly, and they're feeding our willingness
- I'm trying to answer all of the emails. In case I miss someone, the guilty one is me 😊, please forgive me and "knock on my door" again

Feedback – Upload Data to AiM

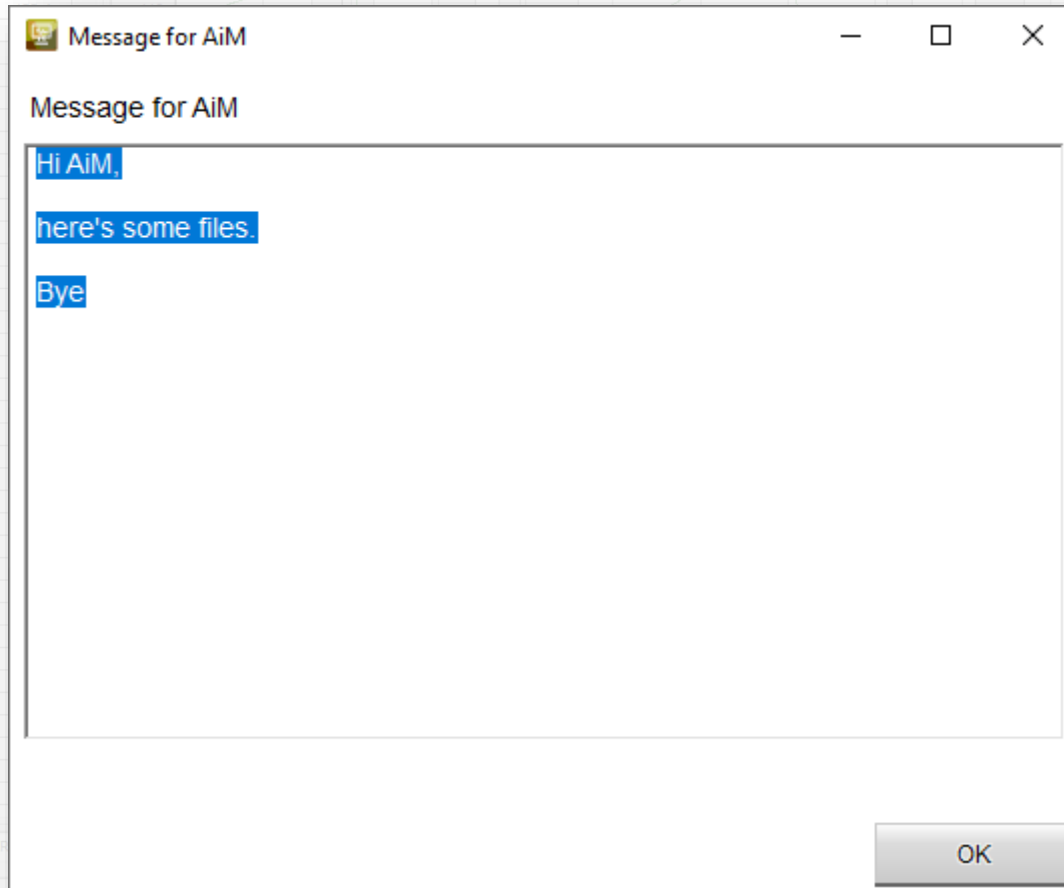
Lonato - 2020, July 03/05 - ROK

	2020, Jul 03	lap(s)	best	ROK	Lo...
	4:16 PM	16	0:50.331	Federi...	Exprit
	4:06 PM	11	0:49.307	David	racer ...
	4:06 PM	11	0:49.347	Belin	
	4:06 PM	11	0:48.906	Leo	
	3:27 PM	5	0:49.579	David	racer ...
	3:17 PM	11	0:49.458	David	racer ...
	3:17 PM	15	0:49.475	Belin	

- Export Item(s)
- Upload Item(s) to AiM Server
- Erase Item(s)
- Properties...

Click on the 'Cogged Wheel'

Feedback – Upload Data to AiM



Enter a Message
and Click 'OK'

Feedback – Upload Data to AiM

An Email Will Confirm the Upload

AiM | Thanks for your feedback

Hi, emiliano.bina@aim-sportline.com (Emiliano Bina)

Your request has been successfully received and will be processed as soon as possible.

Login

www.aimsports.com

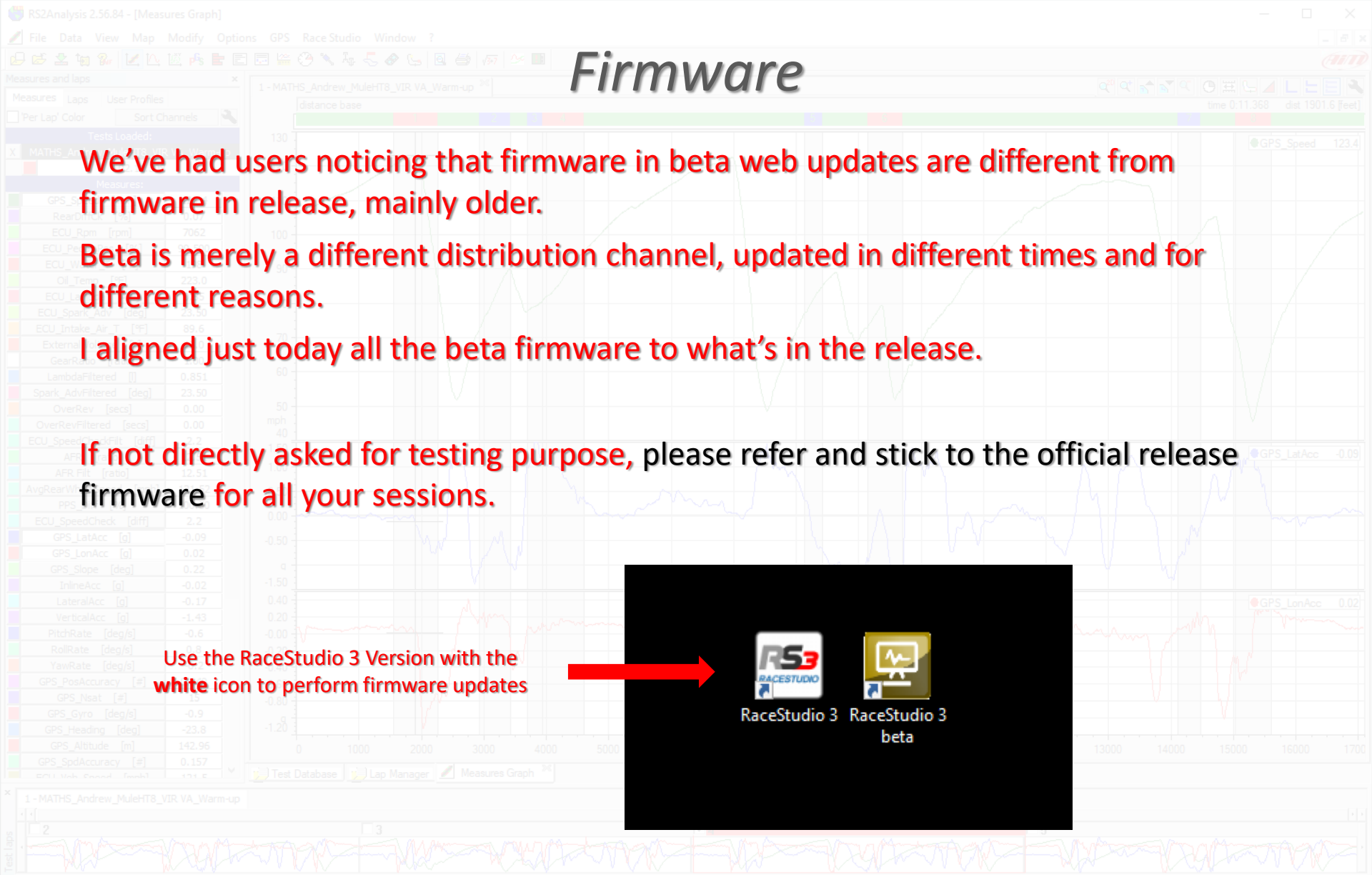


YouTube

RS3A Beta Software

Feedback – Upload to AiM





Firmware

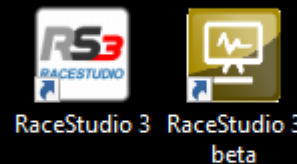
We've had users noticing that firmware in beta web updates are different from firmware in release, mainly older.

Beta is merely a different distribution channel, updated in different times and for different reasons.

I aligned just today all the beta firmware to what's in the release.

If not directly asked for testing purpose, please refer and stick to the official release firmware for all your sessions.

Use the RaceStudio 3 Version with the white icon to perform firmware updates





Live Race Studio 3 Analysis Public Beta

Race Studio 3 Beta Download

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SOFTWARE & FIRMWARE DOWNLOAD

SOFTWARE

RACE STUDIO 3

Ver. 3.32.12

[DOWNLOAD](#)Jun 12th 2020[RELEASE HISTORY](#)**BETA RACE STUDIO 3 including Analysis 3**[QUICK GUIDE](#)[DOWNLOAD PAGE](#)**RACE STUDIO 2**

Ver. 2.56.84

[DOWNLOAD](#)Apr 16th 2020[RELEASE HISTORY](#)**DRAGANALYZER**

Ver. 1.05.07

[DOWNLOAD](#)Feb 25th 2013[RELEASE HISTORY](#)**DRAGON-QMAN**

Ver. 1.01.02

[DOWNLOAD](#)Feb 25th 2013[RELEASE HISTORY](#)

[Click here to go to the other SOFTWARE \(legacy software\).](#)

[Click here to go to the SOFTWARE documentation page.](#)

[Click here to see the AiM Software OS Compatibility Table.](#)

[Click here to see the PCs hardware technical specs.](#)

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AiM Sports Webinar

Race Studio 3 Beta Download



LearnFast™ E-Training Video

Currently 101 Videos and Growing

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- All New Bi-Weekly 2020 Webinar Videos
- Software Updates with Race Studio 3
- Pre-Calculated Gear Position Function
- Configuring WiFi Communication
- Customizing AiM Device Logos
- Race Studio 3 Basic Configuration - Part 1
- Race Studio 3 Basic Configuration - Part 2
- **I Have Downloaded my Data, Now What - Part 1*
- **I Have Downloaded my Data, Now What - Part 2*
- GPS Lap Insert
- Data Views
- Measure Units
- Sort Channels
- Test Properties
- Per Lap Color
- Export Tests
- Channel Reports
- Setting Time
- Track Mapping
- Selection Criteria
- Sensor Calibration
- Conditional Alarms
- Gear Position
- Firmware Update
- Solo Configuration
- Transmit Tracks
- Gps Manager Overview
- New GPS Track
- Webinars

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LearnFast™ E-Training Video



AiM Sports technical support staff regularly attend races and other events

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Look for us at a track near you!**



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Customer Support

At an Event Near You!



Next Webinar

Thursday July 30th, 2020

10:00am Pac / 1:00pm East



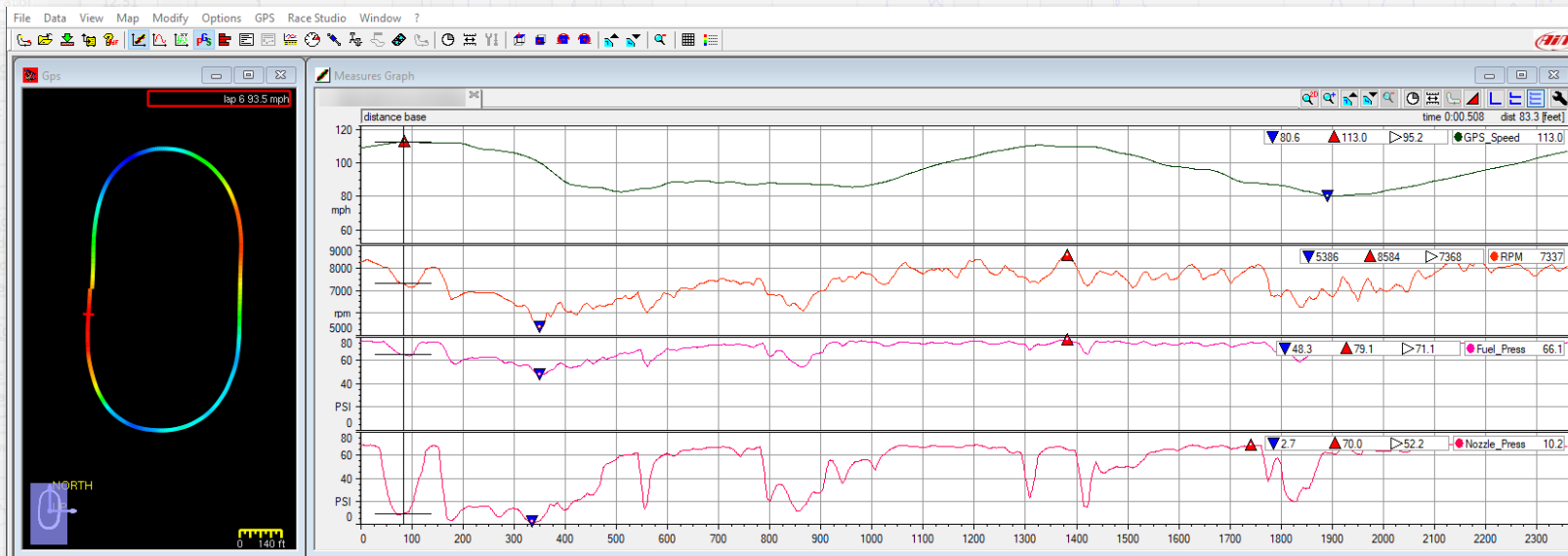
Co-Host

Tom Harris

www.mychron-tom.com

Dirt Oval Data Analysis Tips

With AiM Sports Race Studio Data



www.aimsports.com



YouTube

Next Webinar Topic

Dirt Oval Data Analysis Tips





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Emiliano Bina

software@aim-sportline.com

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