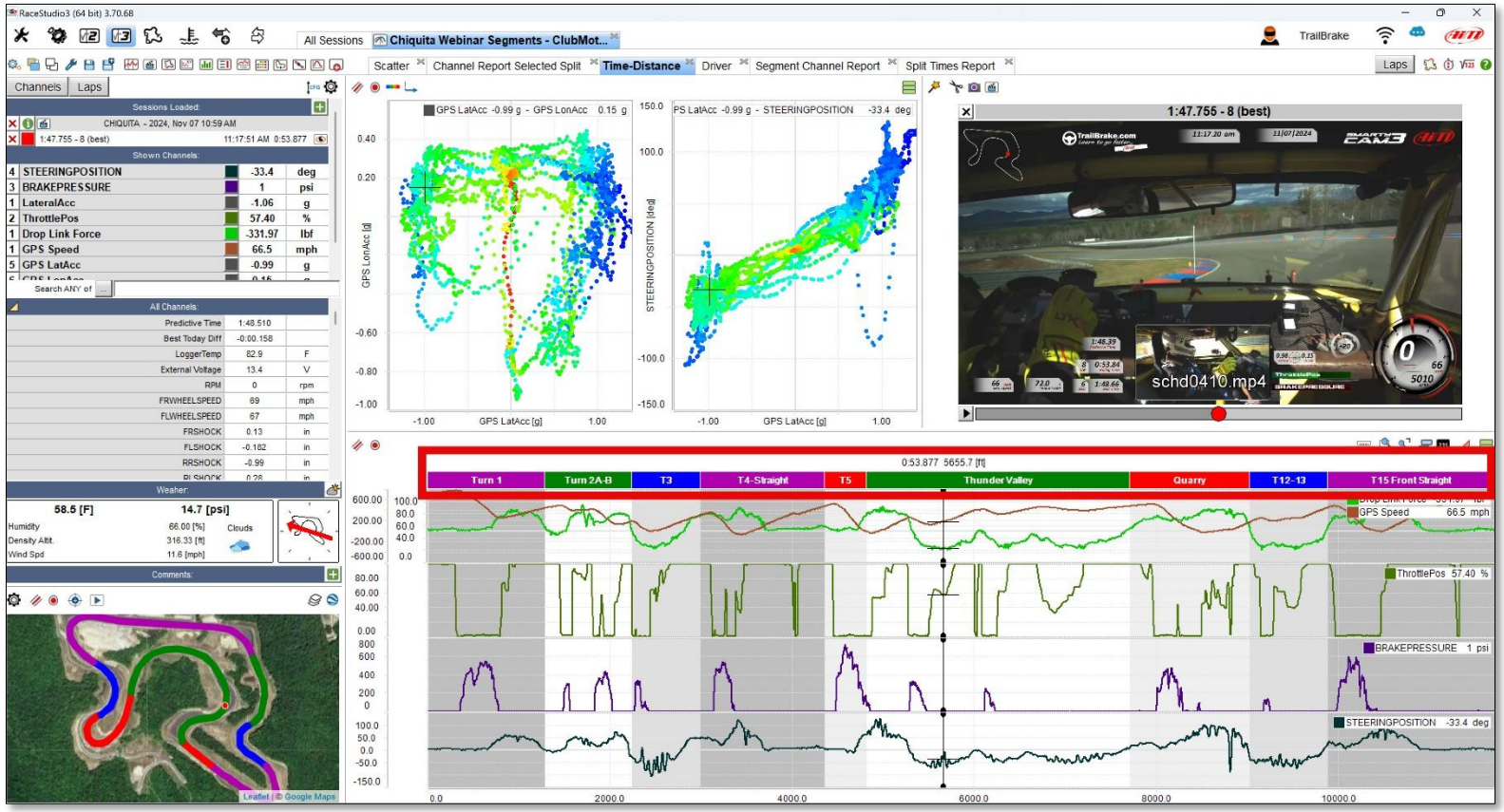
#5-20 LearnFast™ If You Have Questions

Segment Based Data Analysis

A New Way of Analyzing Data



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Matt Romanowski

TrailBrake - Owner

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Co-Host:

Matt Romanowski

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The 5 (!) Ways to Look at Segments

A Method for Every Person

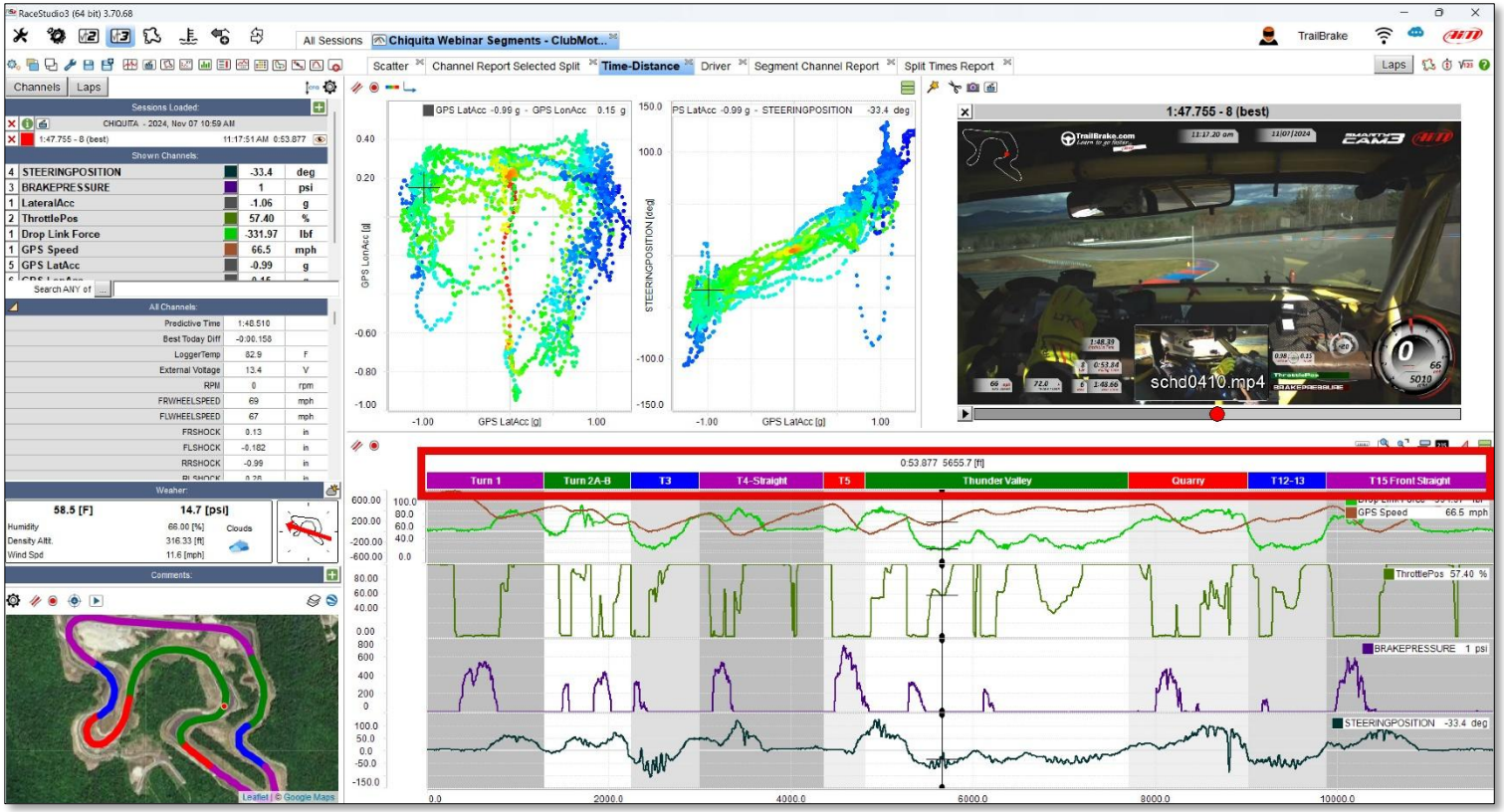
- Time-Distance Graph
  - Best 3 or 5 Segment Times
- Split Report
  - Split Report Graphs
- Channel Report
  - Channel Report Graphs
    - You can Graph the Channel Functions!
- Segment Channel Report
  - Channel Report Graphs
    - You can Graph the Channel Functions!
- Video from SmartyCam
  - Export Video Theoretical Best Lap
- Data Reports
  - Race Studio 3 Analysis Data Report by Segment
    - We Will Present More Info in an Upcoming Webinar

Don't Forget the Mate Windows (Second Screen)!

Where Do Segments Come From?

The Time-Distance Graph!

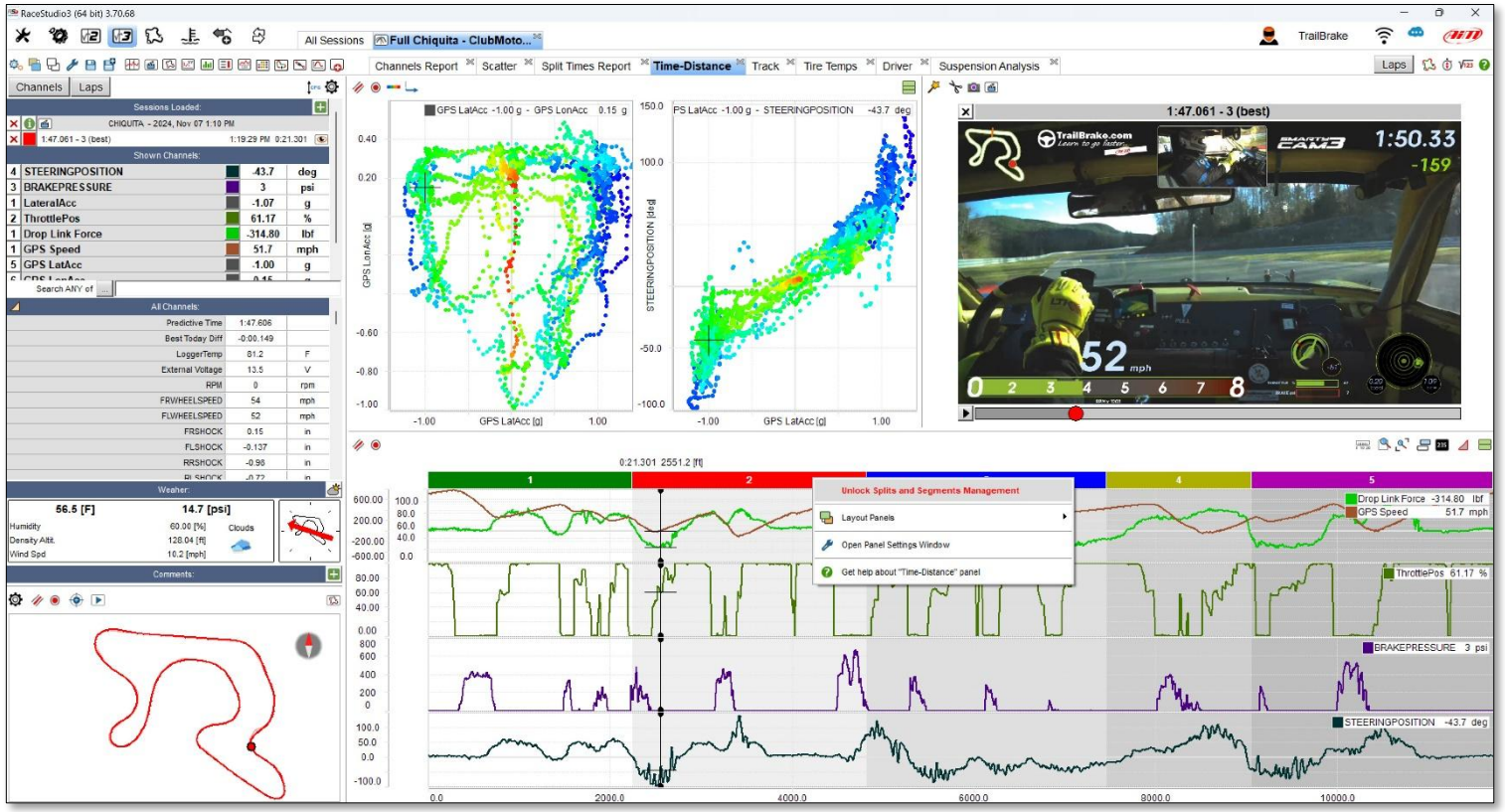
We Set the Split/Segment Divisions in the Time-Distance Graph



How to Change Segments/Splits

Remember the 'Right Click' to Start!

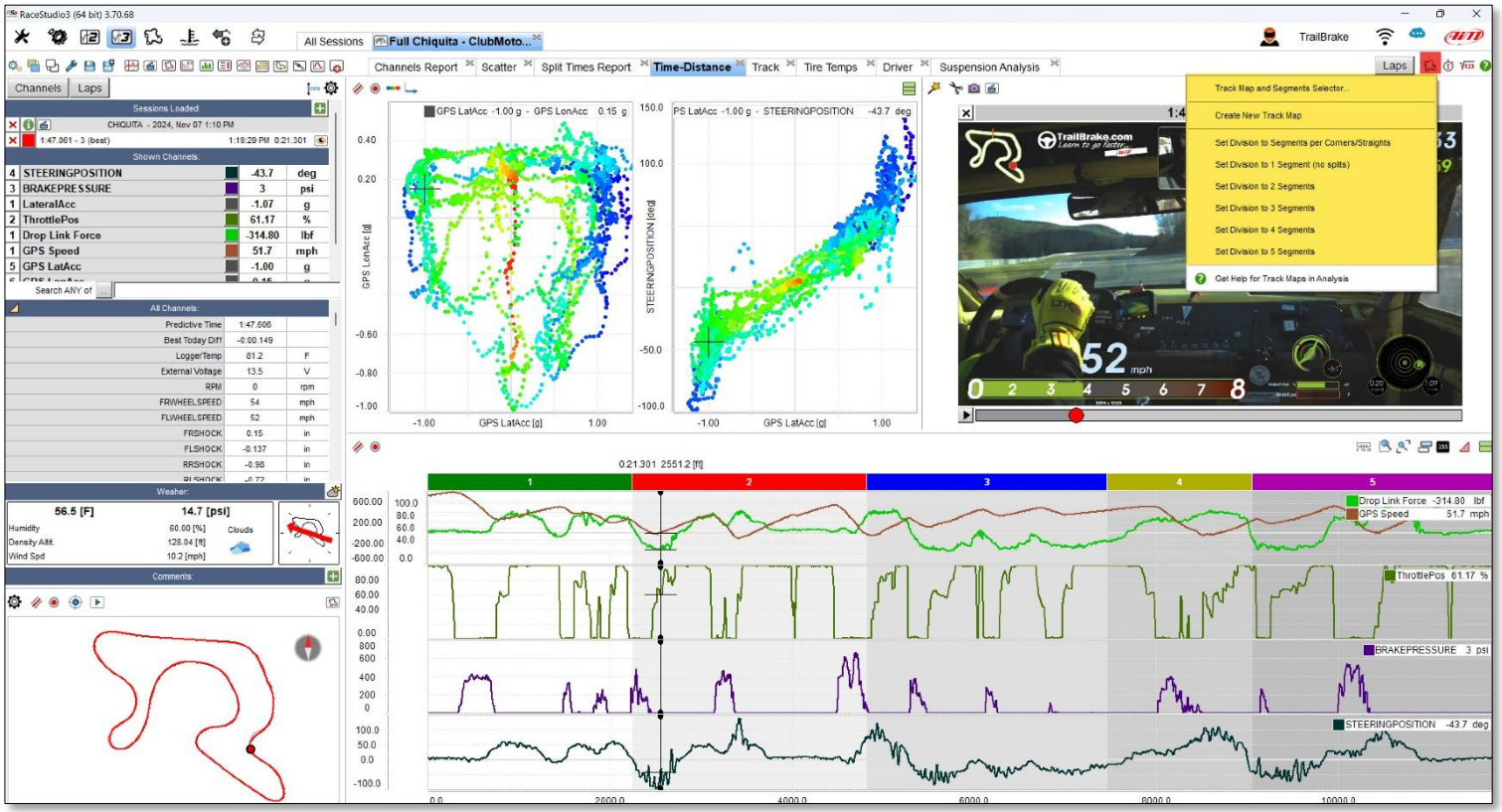
We Set the Split/Segment Divisions in the Time-Distance Graph



More Segment Options

Automatic Segment Divisions and More

You Can Automatically Set 2-5 Segments, Save, and Select Segments Division



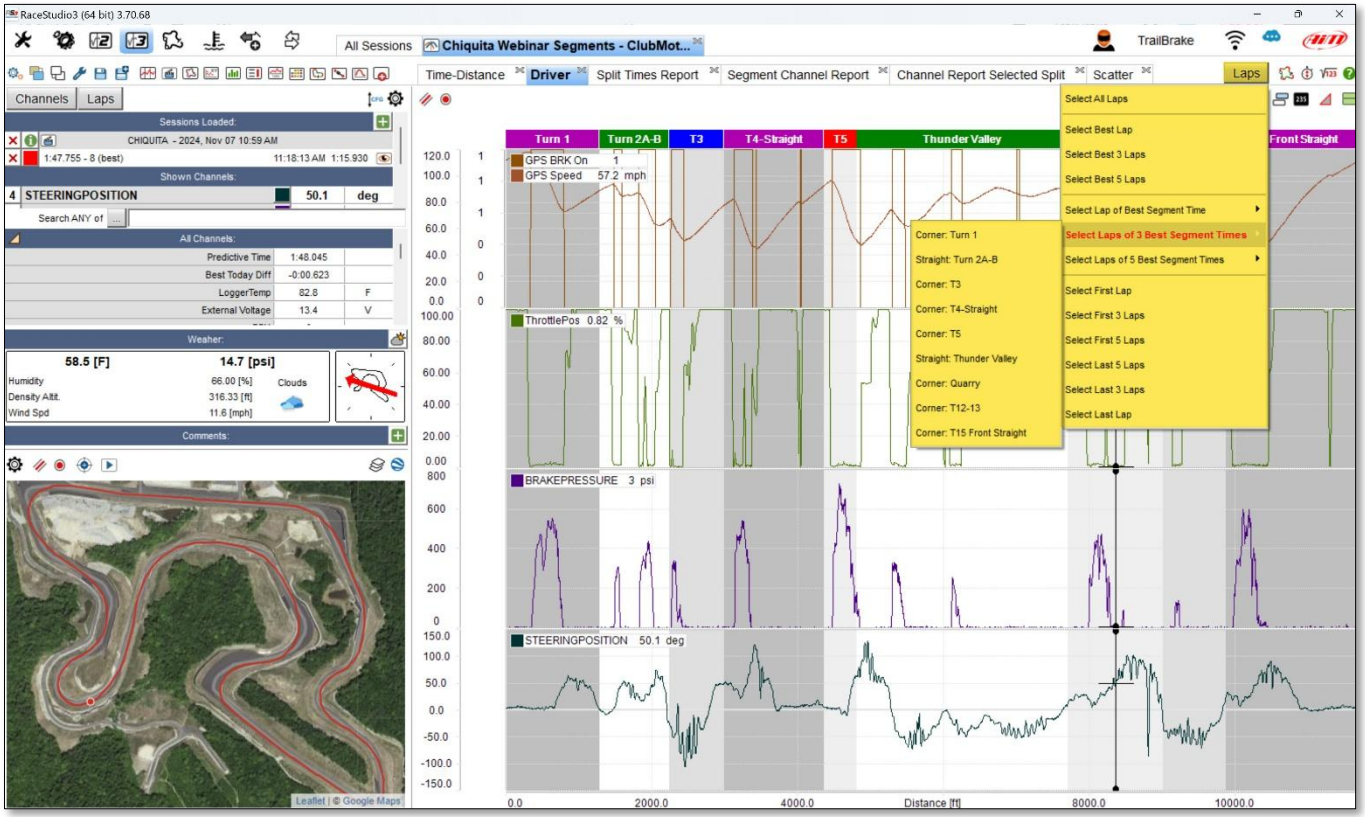
Segment Based Data Analysis

More Segments Options

Time-Distance

The Quick Way to 3 or 5 Best Segments

Use the Laps Button to Show you the Quickest Segment Times on the Time-Distance. This is Great for Seeing the Inputs that Work the Best



Segment Based Data Analysis

Time-Distance

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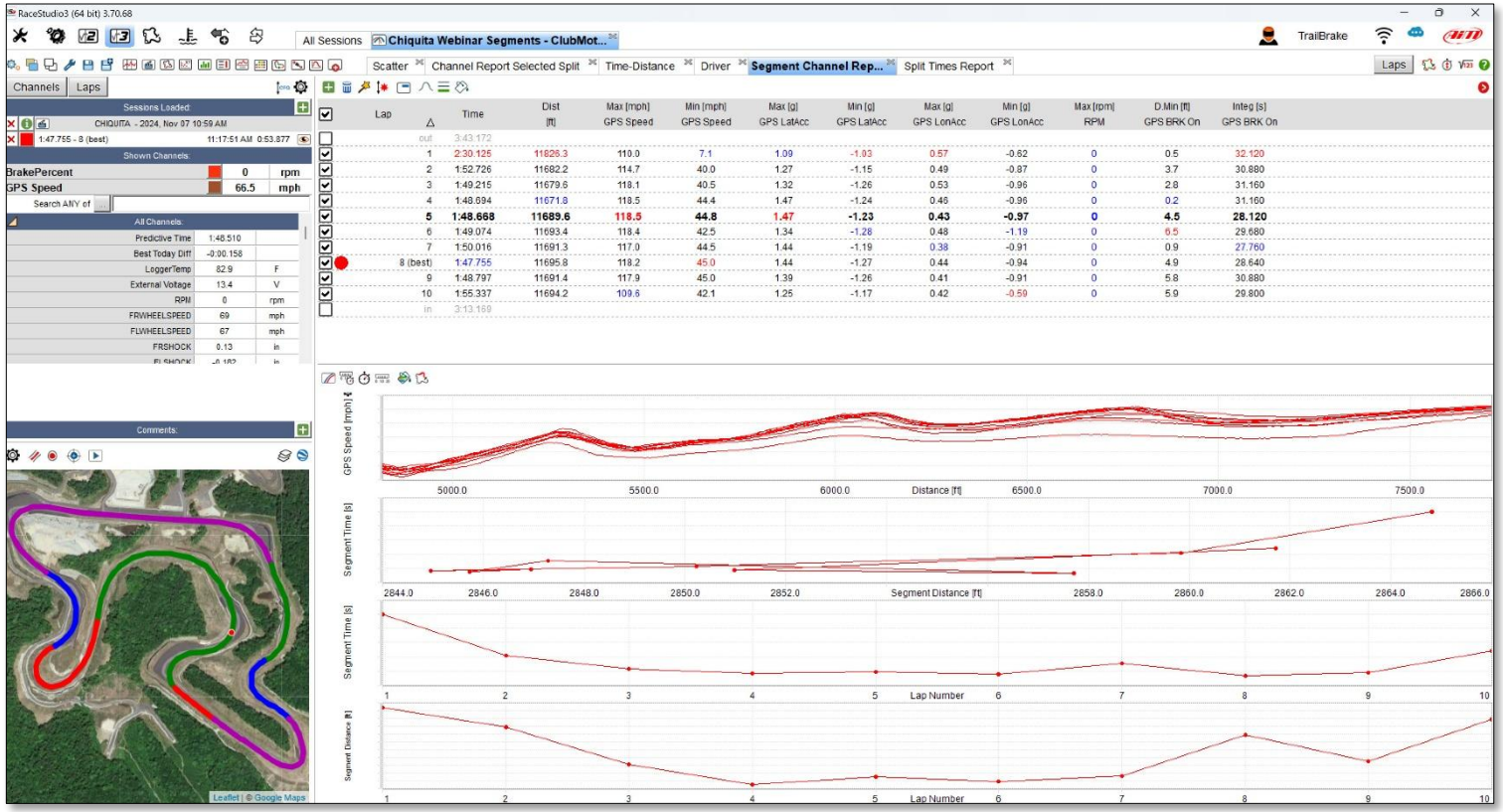
Classic Segments

The Old Standby

The Split Report We are Used to Seeing



We Have Answers!
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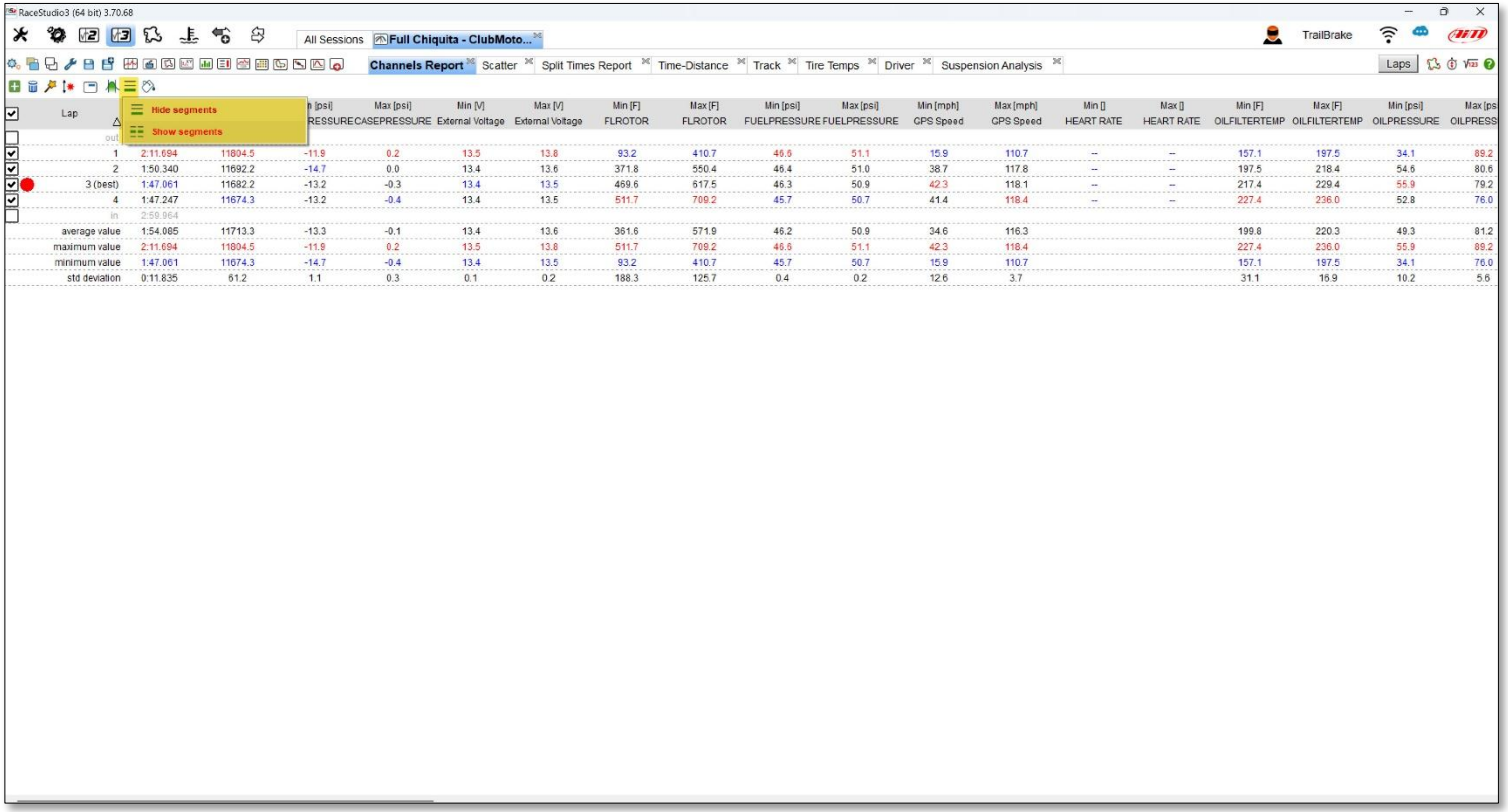
Channel Report Showing Segments

Using a Channel Report to Show Segments

Now the Channel Report is Broken Up by Segments and the Data is ONLY for that Segment! Think about Things like Distance of Max, Min, and More



Lap				Max [psi] CASEPRESSURE	Min [V] External Voltage	Max [V] External Voltage	Min [F] FLROTOR	Max [F] FLROTOR	Min [psi] FUELPRESSURE	Max [psi] FUELPRESSURE	Min [mph] GPS Speed	Max [mph] GPS Speed	Min [] HEART RATE	Max [] HEART RATE	Min [F] OILFILTERTEMP	Max [F] OILFILTERTEMP	Min [psi] OILPRESSURE	Max [psi] OILPRESS
out																		
1	2:11.694	11804.5	-11.9	0.2	13.5	13.8	93.2	410.7	46.6	51.1	15.9	110.7	--	--	157.1	197.5	34.1	89.2
2	1:50.340	11692.2	-14.7	0.0	13.4	13.6	371.8	550.4	46.4	51.0	38.7	117.8	--	--	197.5	218.4	54.6	80.6
3 (best)	1:47.061	11682.2	-13.2	-0.3	13.4	13.5	469.6	617.5	46.3	50.9	42.3	118.1	--	--	217.4	229.4	55.9	79.2
4	1:47.247	11674.3	-13.2	-0.4	13.4	13.5	511.7	709.2	45.7	50.7	41.4	118.4	--	--	227.4	236.0	52.8	76.0
in	2:50.964																	
average value	1:54.085	11713.3	-13.3	-0.1	13.4	13.6	361.6	571.9	46.2	50.9	34.6	116.3			199.8	220.3	49.3	81.2
maximum value	2:11.694	11804.5	-11.9	0.2	13.5	13.8	511.7	709.2	46.6	51.1	42.3	118.4			227.4	236.0	55.9	89.2
minimum value	1:47.061	11674.3	-14.7	-0.4	13.4	13.5	93.2	410.7	45.7	50.7	15.9	110.7			157.1	197.5	34.1	76.0
std deviation	0:11.835	61.2	1.1	0.3	0.1	0.2	188.3	125.7	0.4	0.2	12.6	3.7			31.1	16.9	10.2	5.6

We Have Answers!
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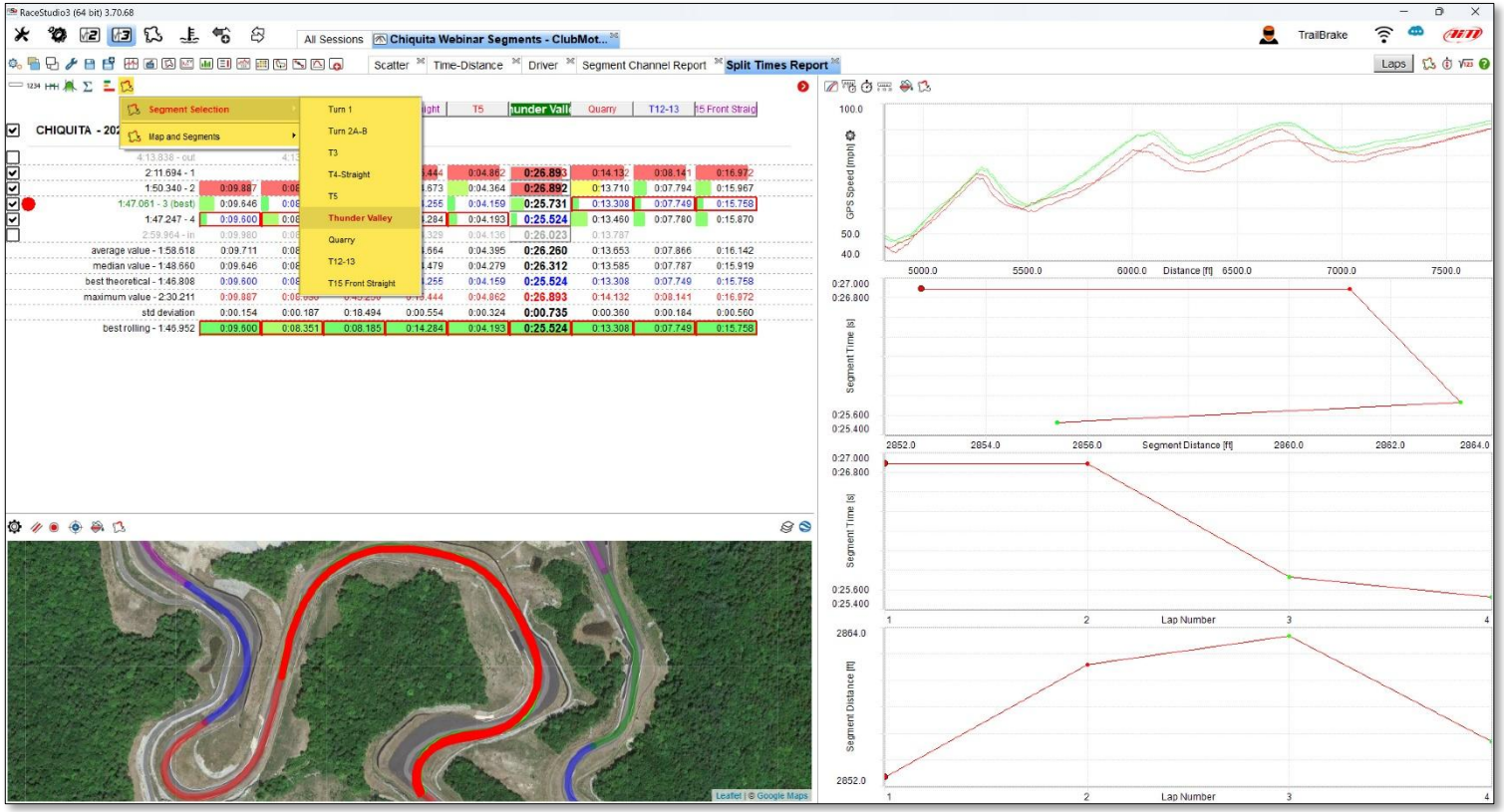
Channel Report by Segment

Automatic Segment Divisions and More

Show the Channel Report for a Single Segment to Simplify the Report



Segment Based Data Analysis

Channel Report by Segment

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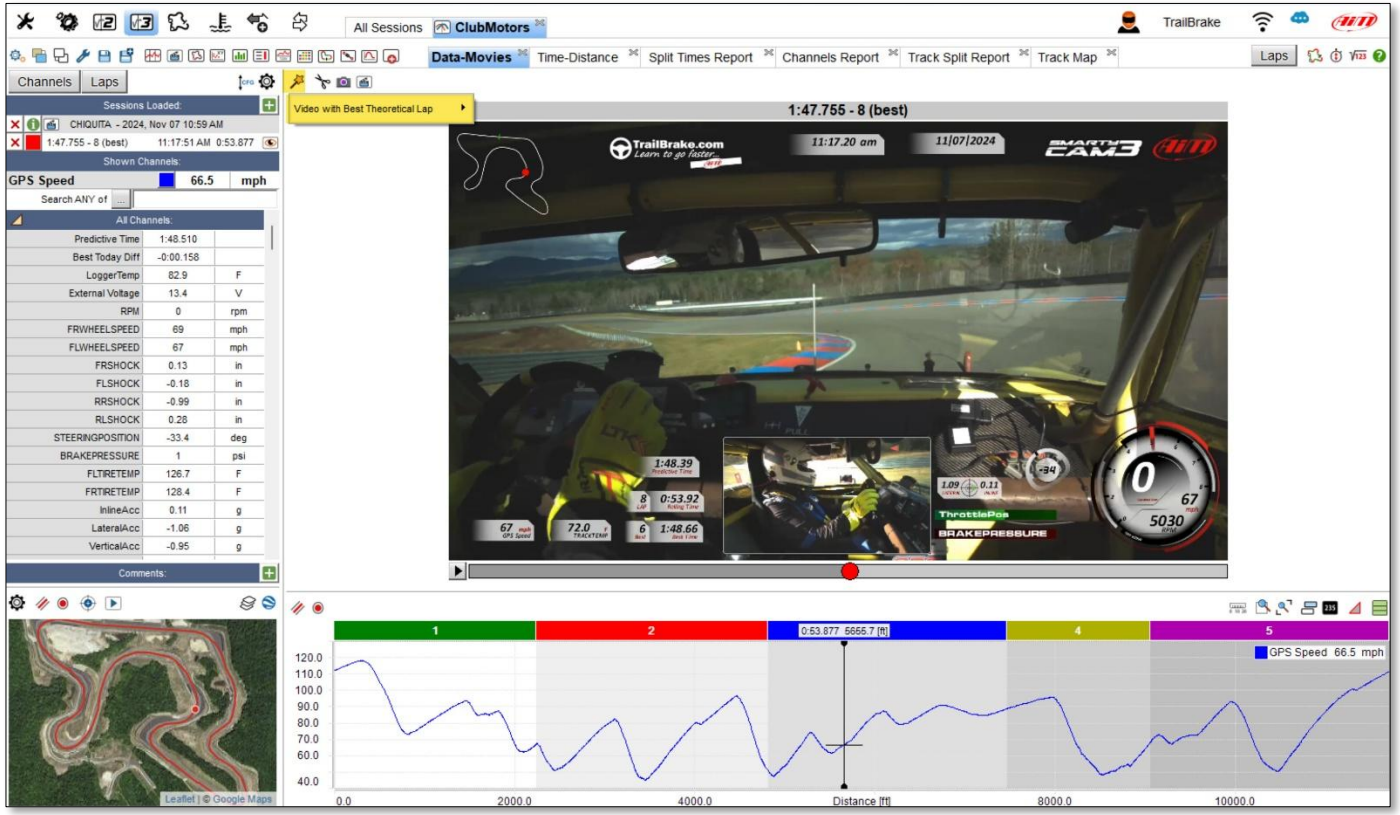
Video Theoretical Best Lap

Watch Your Theoretical Best Lap!

Export a Video Optimal Lap to Show how the Segments Flow Together!



We Have Answers!
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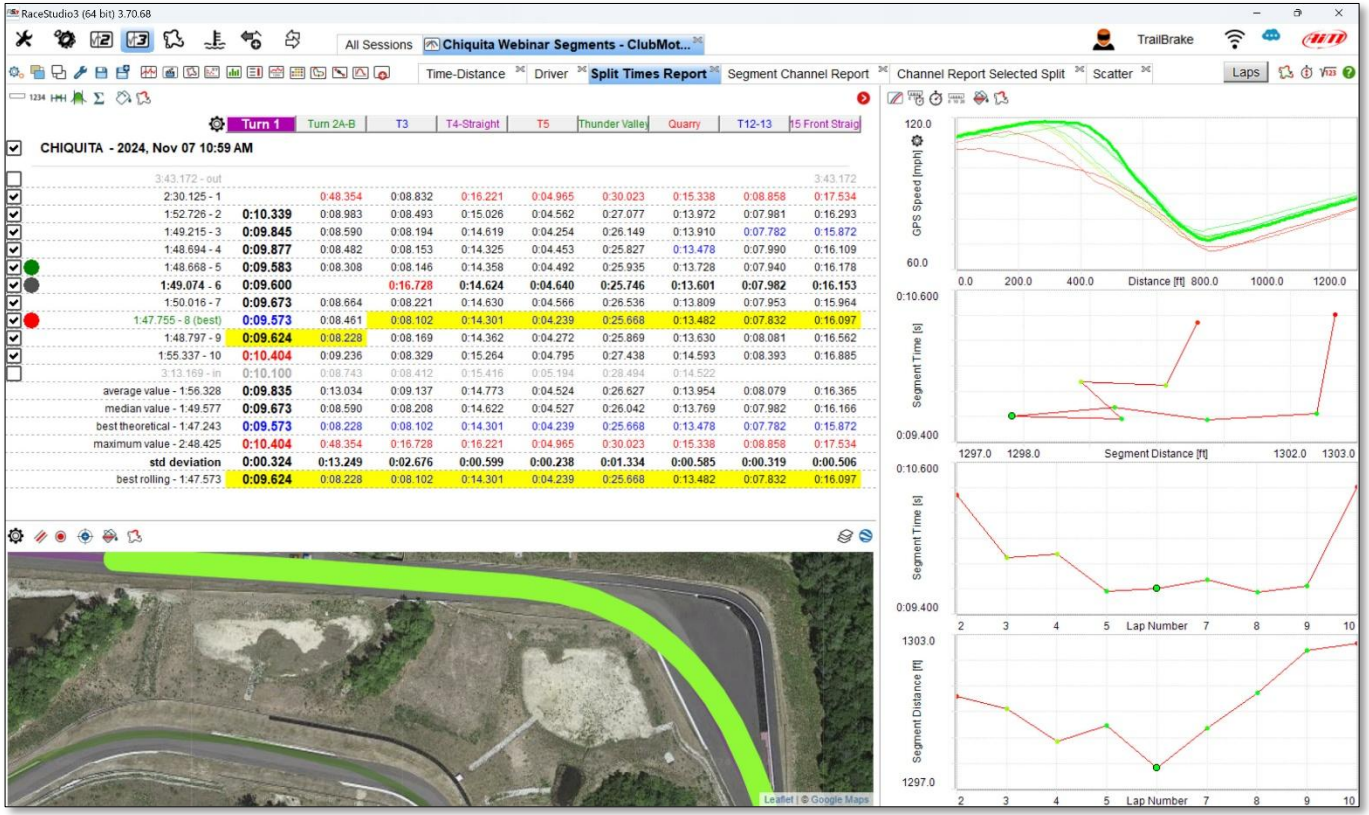
Best Laps

Best Lap, Best Rolling Lap, and Best Theoretical Lap

What you Drove, What you Can Drive, and What your Goals Should Be!



	Turn 1	Turn 2A-B	T3	T4-Straight	T5	Thunder Valley	Quarry	T12-13	15 Front Straig
3:43.172 - out									3:43.172
2:30.125 - 1		0:48.354	0:08.832	0:16.221	0:04.965	0:30.023	0:15.338	0:08.858	0:17.534
1:52.726 - 2	0:10.339	0:08.983	0:08.493	0:15.026	0:04.562	0:27.077	0:13.972	0:07.981	0:16.293
1:49.215 - 3	0:09.845	0:08.590	0:08.194	0:14.619	0:04.254	0:26.149	0:13.910	0:07.782	0:15.872
1:48.694 - 4	0:09.877	0:08.482	0:08.153	0:14.325	0:04.453	0:25.827	0:13.478	0:07.990	0:16.109
1:48.668 - 5	0:09.583	0:08.308	0:08.146	0:14.358	0:04.492	0:25.935	0:13.728	0:07.940	0:16.178
1:49.074 - 6	0:09.600		0:16.728	0:14.624	0:04.640	0:25.746	0:13.601	0:07.982	0:16.153
1:50.016 - 7	0:09.673	0:08.664	0:08.221	0:14.630	0:04.566	0:26.536	0:13.809	0:07.953	0:15.964
1:47.755 - 8 (best)	0:09.573	0:08.461	0:08.102	0:14.301	0:04.239	0:25.668	0:13.482	0:07.832	0:16.097
1:48.797 - 9	0:09.624	0:08.228	0:08.169	0:14.362	0:04.272	0:25.869	0:13.630	0:08.081	0:16.562
1:55.337 - 10	0:10.404	0:09.236	0:08.329	0:15.264	0:04.795	0:27.438	0:14.593	0:08.393	0:16.885
3:13.169 - in	0:10.100	0:08.743	0:08.412	0:15.416	0:05.194	0:28.494	0:14.522		
average value - 1:56.328	0:09.835	0:13.034	0:09.137	0:14.773	0:04.524	0:26.627	0:13.954	0:08.079	0:16.365
median value - 1:49.577	0:09.673	0:08.590	0:08.208	0:14.622	0:04.527	0:26.042	0:13.769	0:07.982	0:16.166
best theoretical - 1:47.243	0:09.573	0:08.228	0:08.102	0:14.301	0:04.239	0:25.668	0:13.478	0:07.782	0:15.872
maximum value - 2:48.425	0:10.404	0:48.354	0:16.728	0:16.221	0:04.965	0:30.023	0:15.338	0:08.858	0:17.534
std deviation	0:00.324	0:13.249	0:02.676	0:00.599	0:00.238	0:01.334	0:00.585	0:00.319	0:00.506
best rolling - 1:47.573	0:09.624	0:08.228	0:08.102	0:14.301	0:04.239	0:25.668	0:13.482	0:07.832	0:16.097

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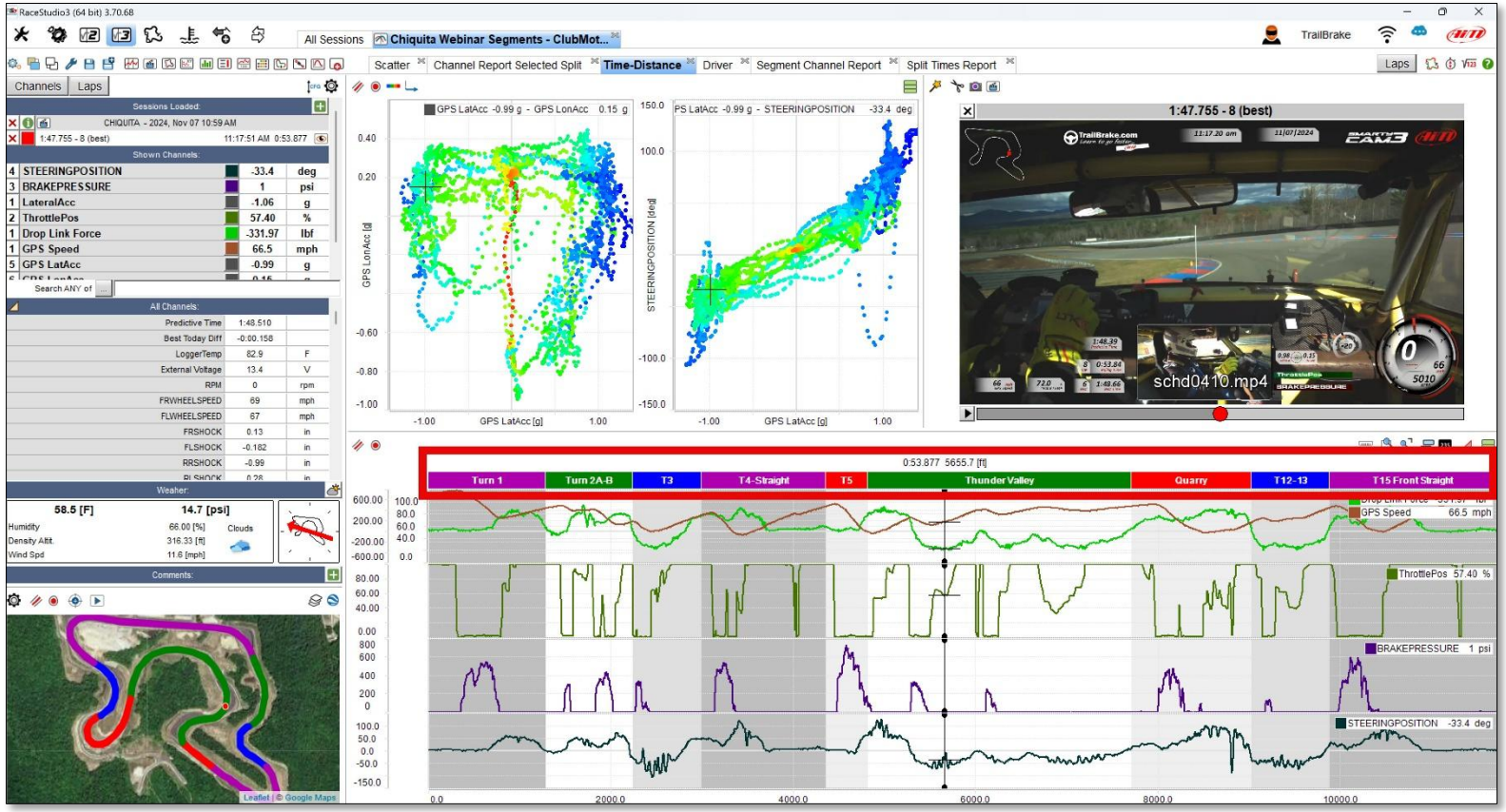
Live Race Studio 3 Demo



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Live Race Studio 3 Demo

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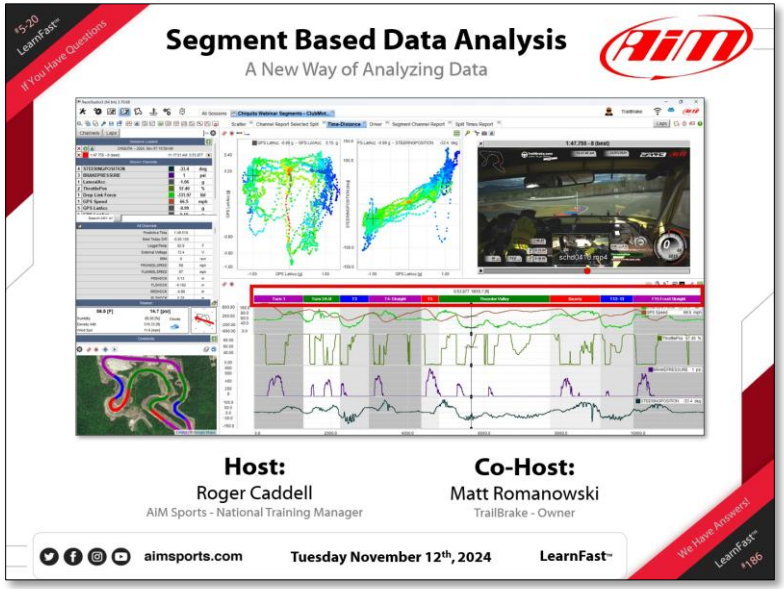

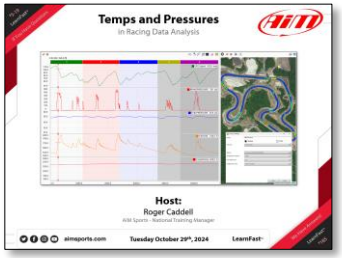

- All New 2020 - 24 Live Webinar Videos
- Software Updates with Race Studio 3
- Pre-Calculated Gear Position Function
- Configuring WiFi Communication
- Customizing AiM Device Logos
- Race Studio 3 Basic Configuration - Part 1
- Race Studio 3 Basic Configuration - Part 2
- **I Have Downloaded my Data, 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
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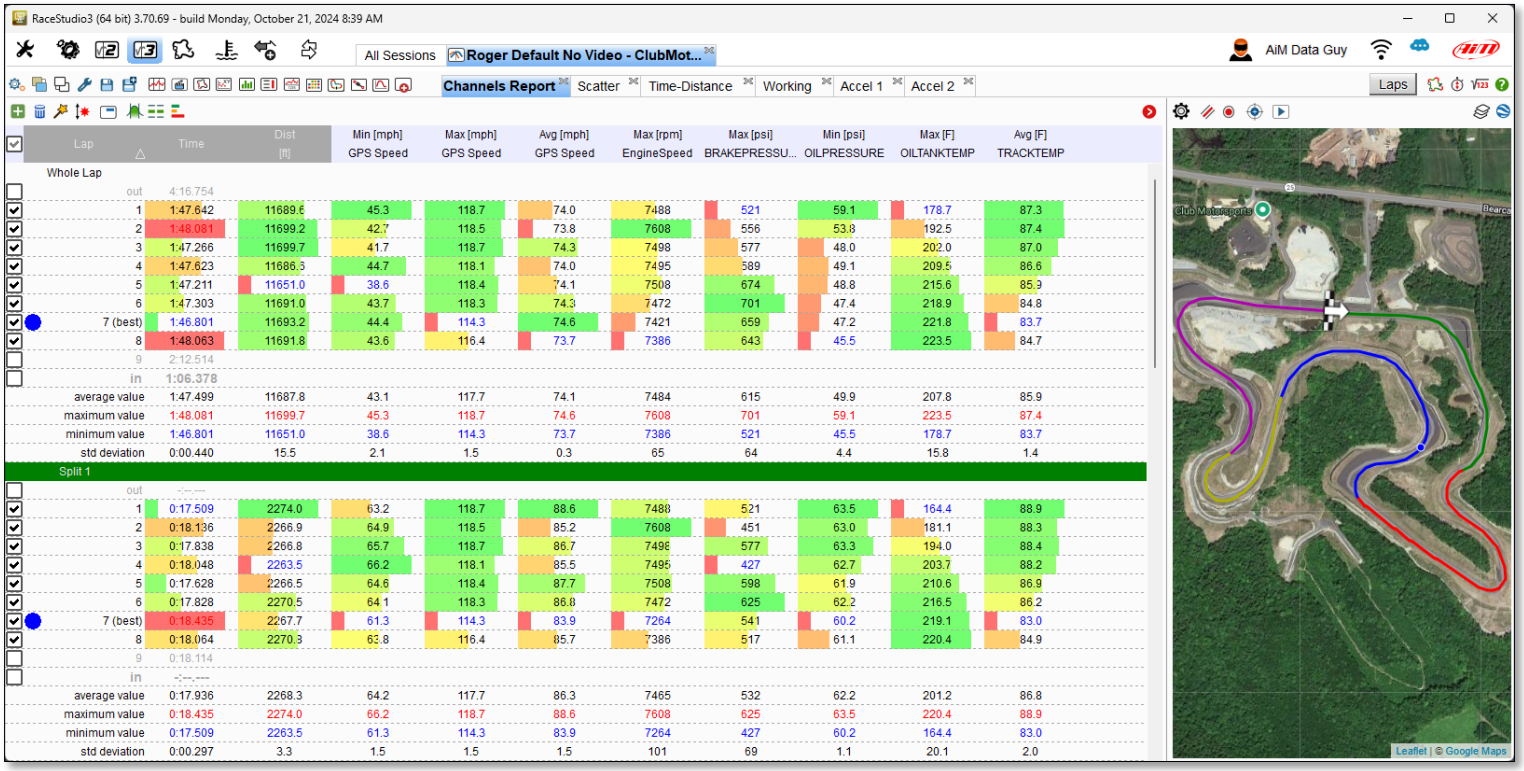
Next AiM Sports Webinar

Tuesday, November 26th, 2024 – 10am Pac / 1pm East

Race Studio 3 Updates



Lap	Time	Dist [ft]	Min [mph] GPS Speed	Max [mph] GPS Speed	Avg [mph] GPS Speed	Max [rpm] EngineSpeed	Max [psi] BRAKEPRESSU...	Min [psi] OILPRESSURE	Max [F] OILTANKTEMP	Avg [F] TRACKTEMP
Whole Lap										
out	4:16.754									
1	1:47.642	11689.6	45.3	118.7	74.0	7488	521	59.1	178.7	87.3
2	1:48.081	11699.2	42.7	118.5	73.8	7608	556	53.8	192.5	87.4
3	1:47.266	11699.7	41.7	118.7	74.3	7498	577	48.0	202.0	87.0
4	1:47.623	11686.3	44.7	118.1	74.0	7495	589	49.1	209.5	86.6
5	1:47.211	11651.0	38.6	118.4	74.1	7508	674	48.8	215.6	85.9
6	1:47.303	11691.0	43.7	118.3	74.3	7472	701	47.4	218.9	84.8
7 (best)	1:46.801	11693.2	44.4	114.3	74.6	7421	659	47.2	221.8	83.7
8	1:48.063	11691.8	43.6	116.4	73.7	7386	643	45.5	223.5	84.7
9	2:12.514									
in	1:06.378									
average value	1:47.499	11687.8	43.1	117.7	74.1	7484	615	49.9	207.8	85.9
maximum value	1:48.081	11699.7	45.3	118.7	74.6	7608	701	59.1	223.5	87.4
minimum value	1:46.801	11651.0	38.6	114.3	73.7	7386	521	45.5	178.7	83.7
std deviation	0:00.440	15.5	2.1	1.5	0.3	65	64	4.4	15.8	1.4
Split 1										
out	-:--.---									
1	0:17.509	2274.0	63.2	118.7	88.6	7488	521	63.5	164.4	88.9
2	0:18.136	2266.9	64.9	118.5	85.2	7608	451	63.0	181.1	88.3
3	0:17.838	2266.8	65.7	118.7	86.7	7498	577	63.3	194.0	88.4
4	0:18.048	2263.5	66.2	118.1	85.5	7495	427	62.7	203.7	88.2
5	0:17.628	2266.5	64.6	118.4	87.7	7508	598	61.9	210.6	86.9
6	0:17.828	2270.5	64.1	118.3	86.8	7472	625	62.2	216.5	86.2
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9	0:18.114									
in	-:--.---									
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minimum value	0:17.509	2263.5	61.3	114.3	83.9	7264	427	60.2	164.4	83.0
std deviation	0:00.297	3.3	1.5	1.5	1.5	101	69	1.1	20.1	2.0

Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Emiliano Bina

AiM Sport-Line – Software Team Lead

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Next Webinar

2nd Tues & Last Tues of Each Month

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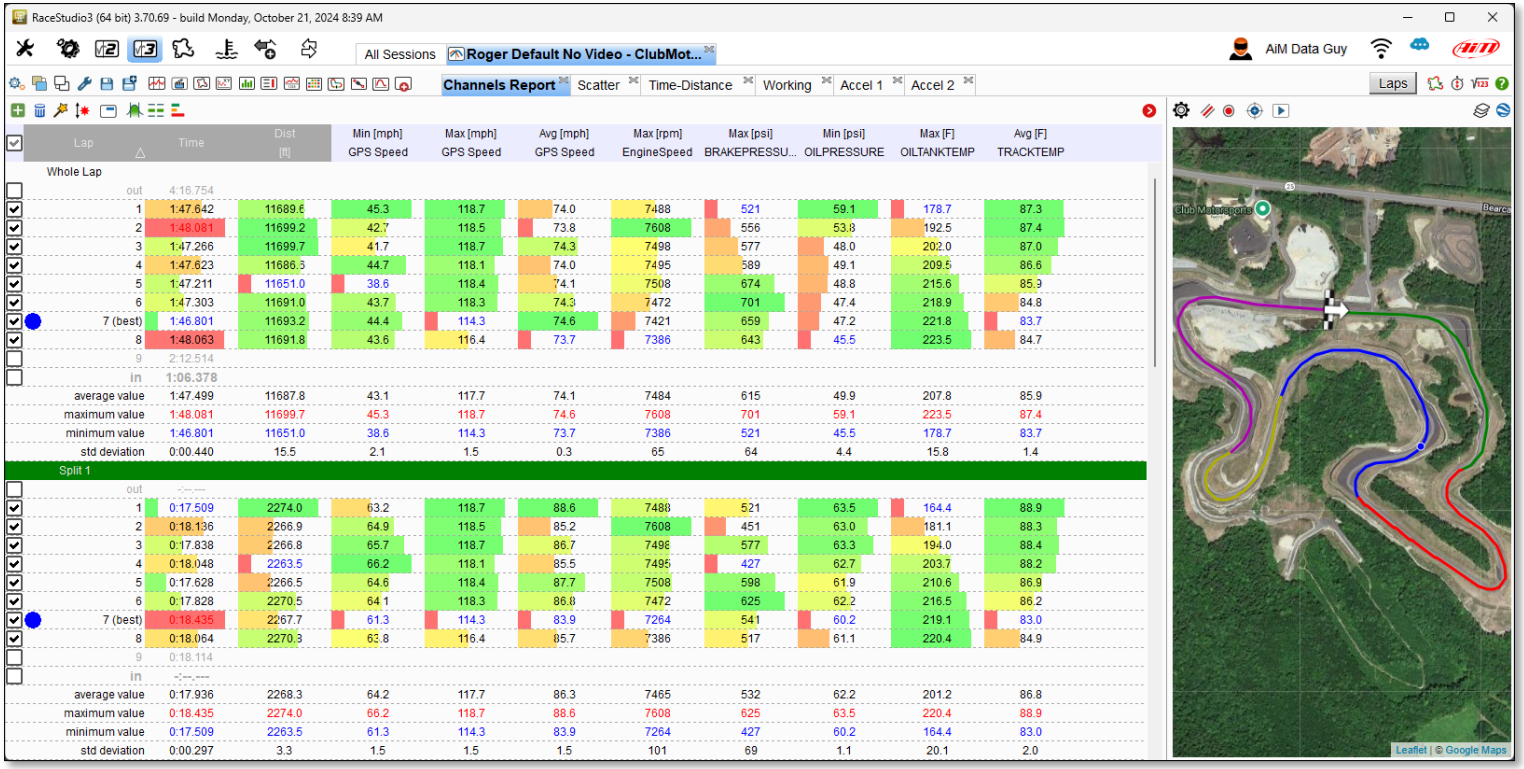
Contact Information



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6	0:17.828	2270.5	64.1	118.3	86.8	7472	625	62.2	216.5	86.2
7 (best)	0:18.435	2267.7	61.3	114.3	83.9	7264	541	60.2	219.1	83.0
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average value	0:17.936	2268.3	64.2	117.7	86.3	7465	532	62.2	201.2	86.8
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Matt Romanowski

TrailBrake.com – Owner

matt@trailbrake.com