

Test Information

Date and Time	01/29/2026		
Vehicle Model	Chevy Silverado MY23		
Vehicle ID	3116		
File Name	pp_2023_Chevy_Silverado_A3_20260129_M27-M28_Matlab.xlsx		

Vehicle and Cycle

Test Cycle	A3	---	Fuel	Gasoline
Cycle Distance	7.77 mile	---	VIN	3GCPDKEK5PG153116
Odometer (miles)	26032	---	Start Conditions	Cold Start Inside
Test Group	PGMXT02.7100	---	Displacement	2.7L
Drive Mode	Normal	---	Emissions Standard	T3B30
Start/Stop	On	---	Air Conditioning	Off
Driver	Scott E.	---	Equipment	Sensors SCS:Stk4, Gas:Stk4, FID:Stk4, PM2:Stk5
Trailer	No	---	Trailer + Ballast Wt.	-

Fuel Properties

FTAG	Mix of Comm. and FTAG 43732
Lower Heating Value (BTU/lb)	17885
Carbon Weight Fraction	0.8282
Specific Gravity	0.7494

File Import and Analysis Options

File Import: Fill Missing Data	nearest
File Import: Fill End Values (extrapolate)	nearest
Humidity Correction Factor	CFR 1065.670 SI
Vehicle Speed Source (CAN or GPS)	can

Ambient and Start Conditions

Average Ambient Temperature	F	14.5
Average Ambient Relative Humidity	%	63.1
Ambient Temperature At Start	F	14.5
Coolant Temperature At Start	F	69.8
Idle Time At Start	(sec)	5.0

Test Purpose and Notes

Test Purpose	TATD Vehicle Survey
Notes and Issues	No Significant Issues. Weather station not working. Data was post-processed with scalar humidity and ambient temperature in the Sensors post processor

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Test Cycle Mass Emissions

kNOx	THC	NMHC	kNOx+NMHC	CO	CO2
(mg/mile)	(mg/mile)	(mg/mile)	(mg/mile)	(gm/mile)	(gm/mile)
60.4	99.0	97.0	157.4	1.78	427.5

Particulate Emissions

Filter Position #	Filter ID #	Pre-Weight	Post-Weight	PM Tailpipe Mass	PM Tailpipe mg/mile
(-)	(-)	(mg)	(mg)	(mg)	(mg/mile)
2	222208364	401.3370	401.3716	18.66	2.40

Fuel Economy

Fuel Economy
(mpg)
20.22

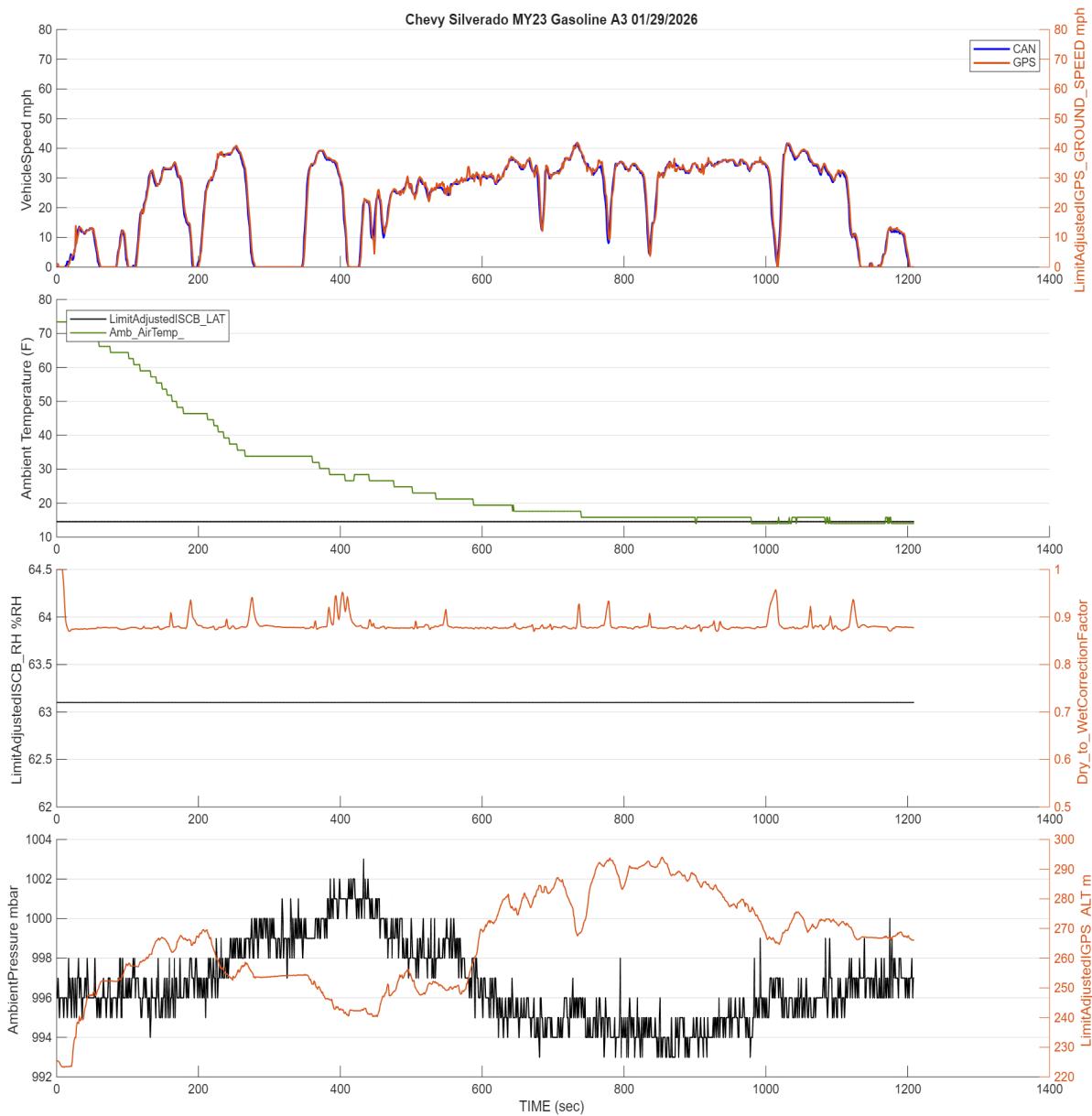
Test Cycle Mass Emissions: Weighted to FTP75

kNOx	THC	NMHC	kNOx+NMHC	CO	CO2
mg/mile	mg/mile	(mg/mile)	(mg/mile)	gm/mile	gm/mile
45.8	45.3	44.4	90.2	0.99	293.8

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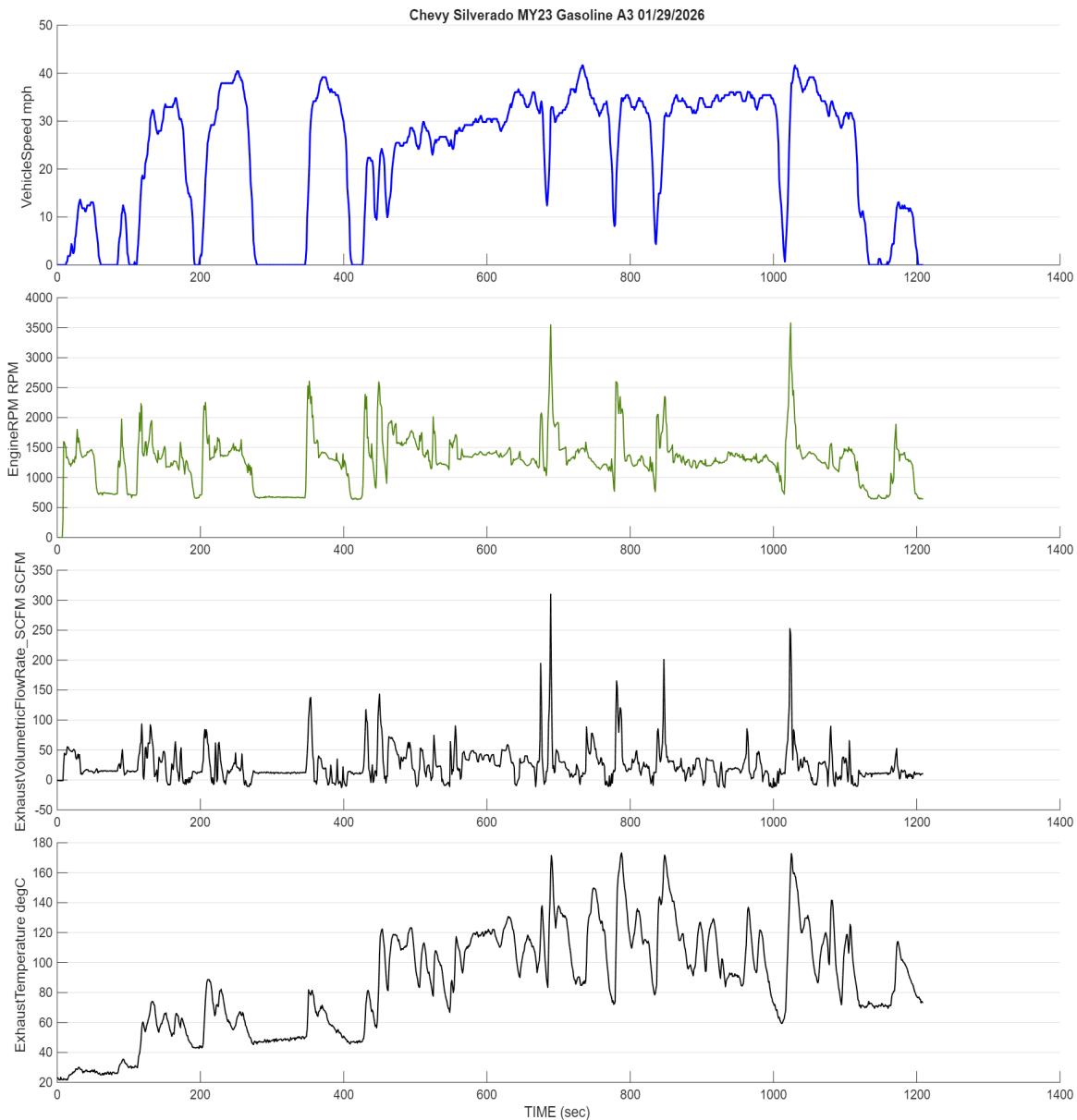
Figure: Ambient Conditions



Exhaust Flow

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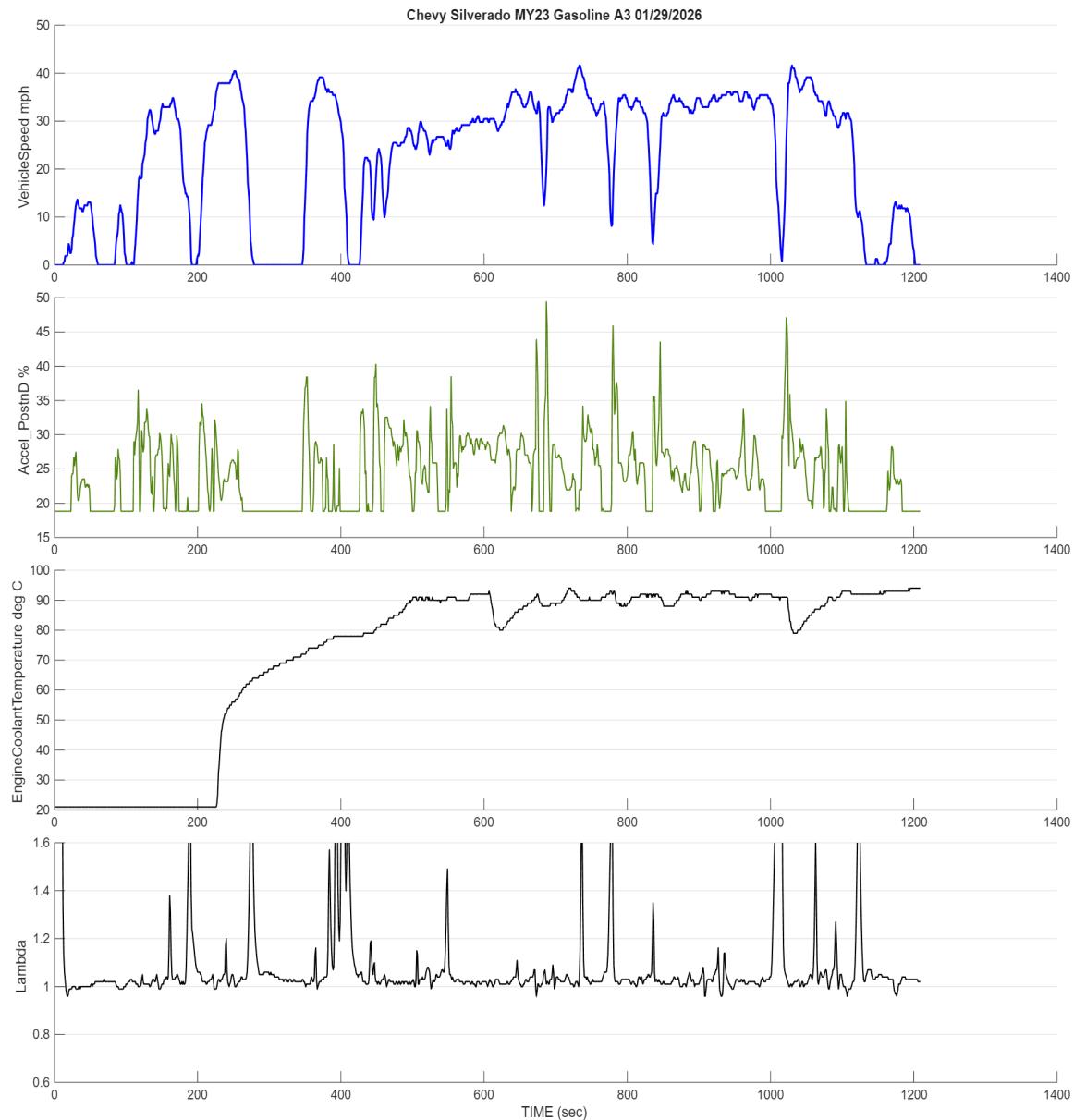
Figure: Exhaust Flow



Lambda and Coolant Temperature

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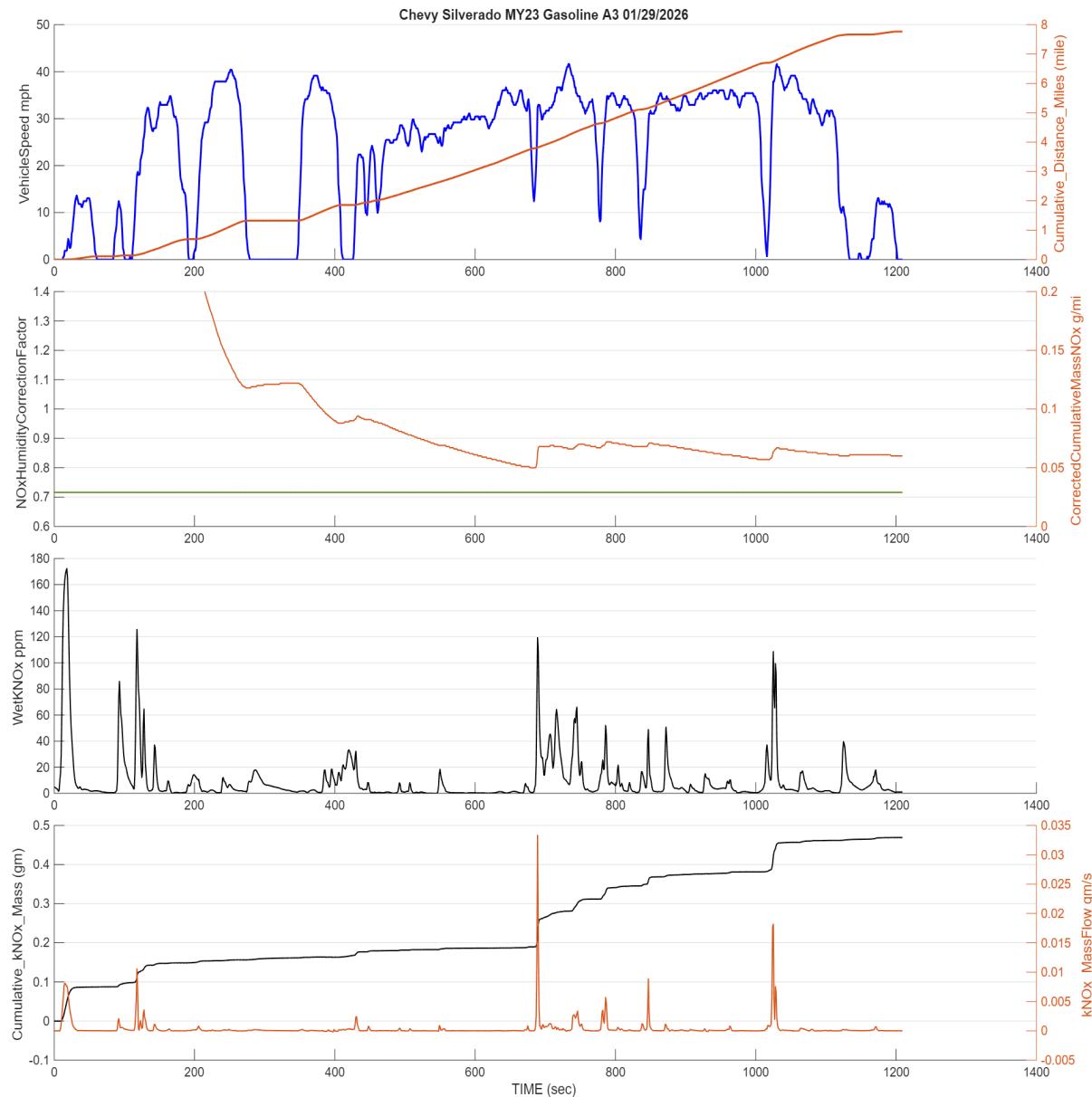
Figure: Lambda and Coolant Temperature



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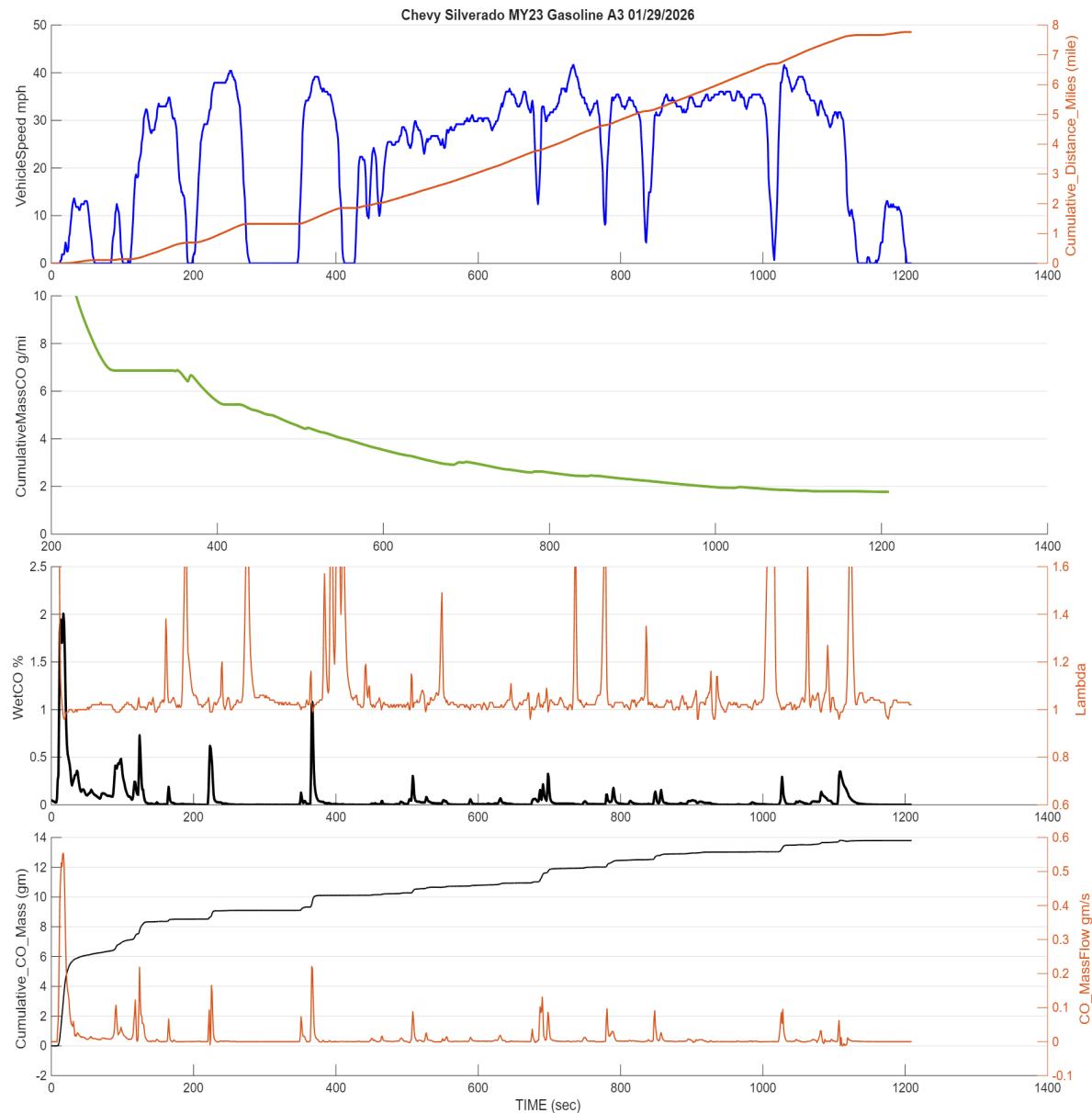
Figure: Test Cycle NOx



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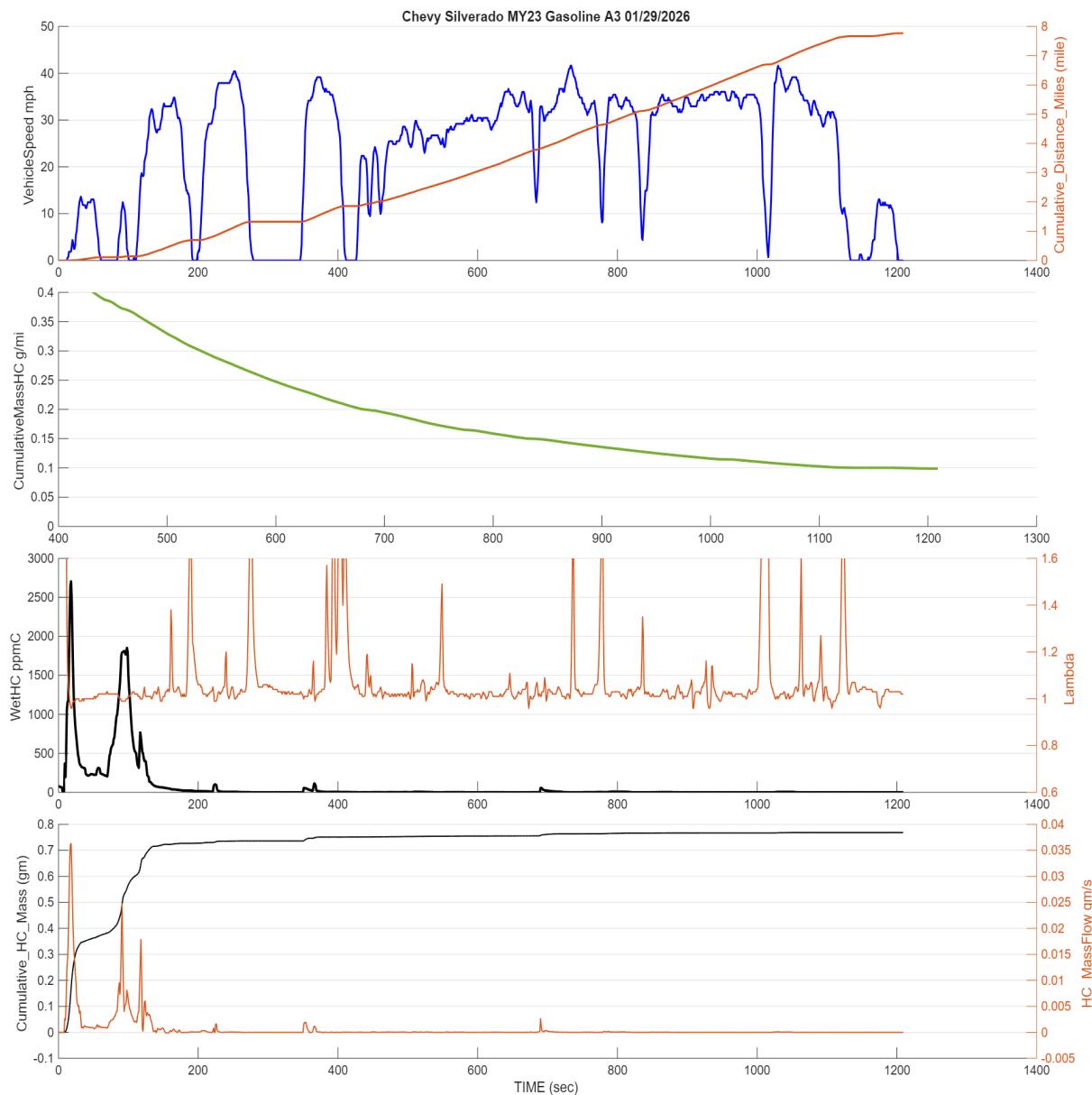
Figure: Test Cycle CO



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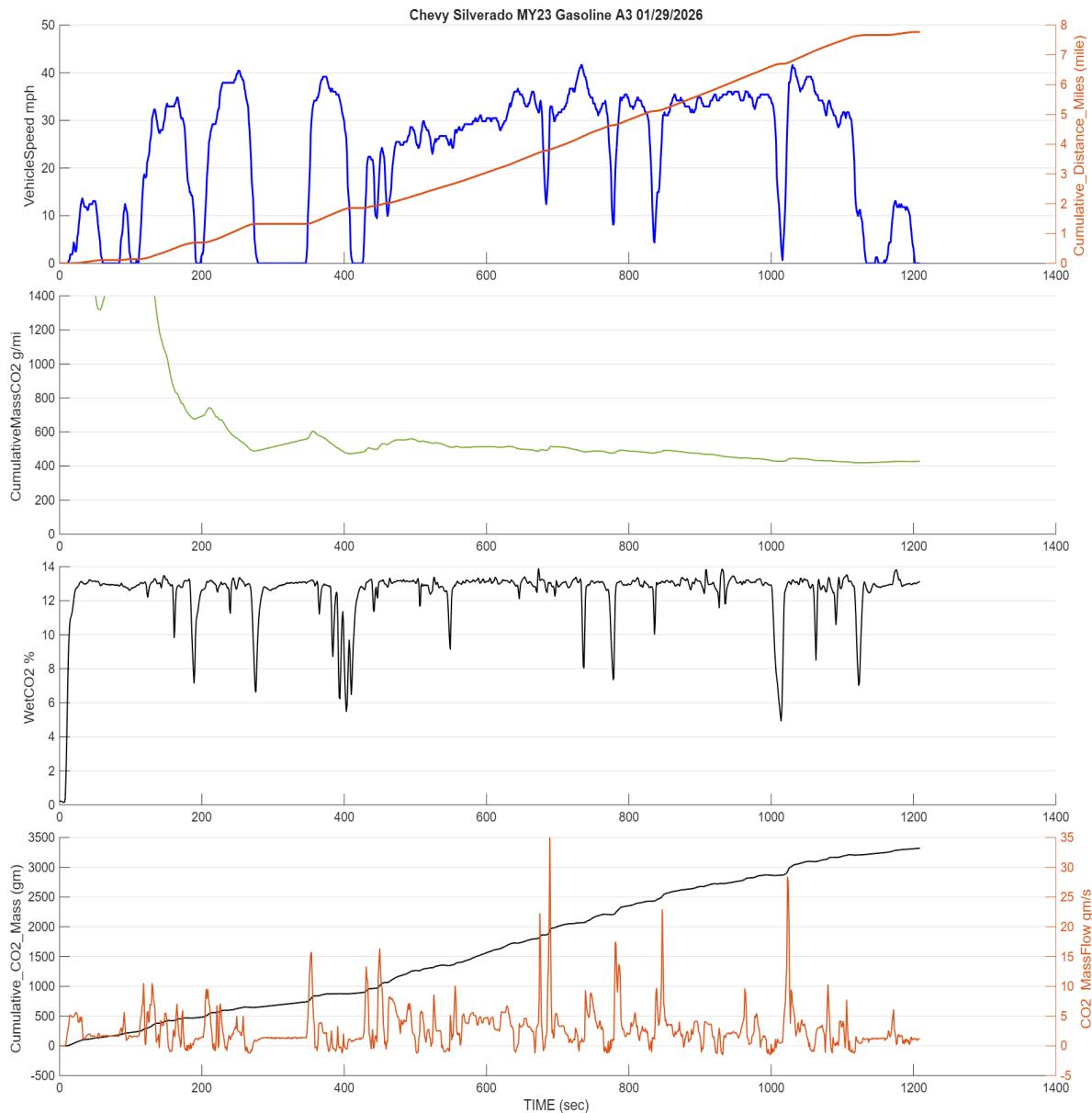
Figure: Test Cycle HC



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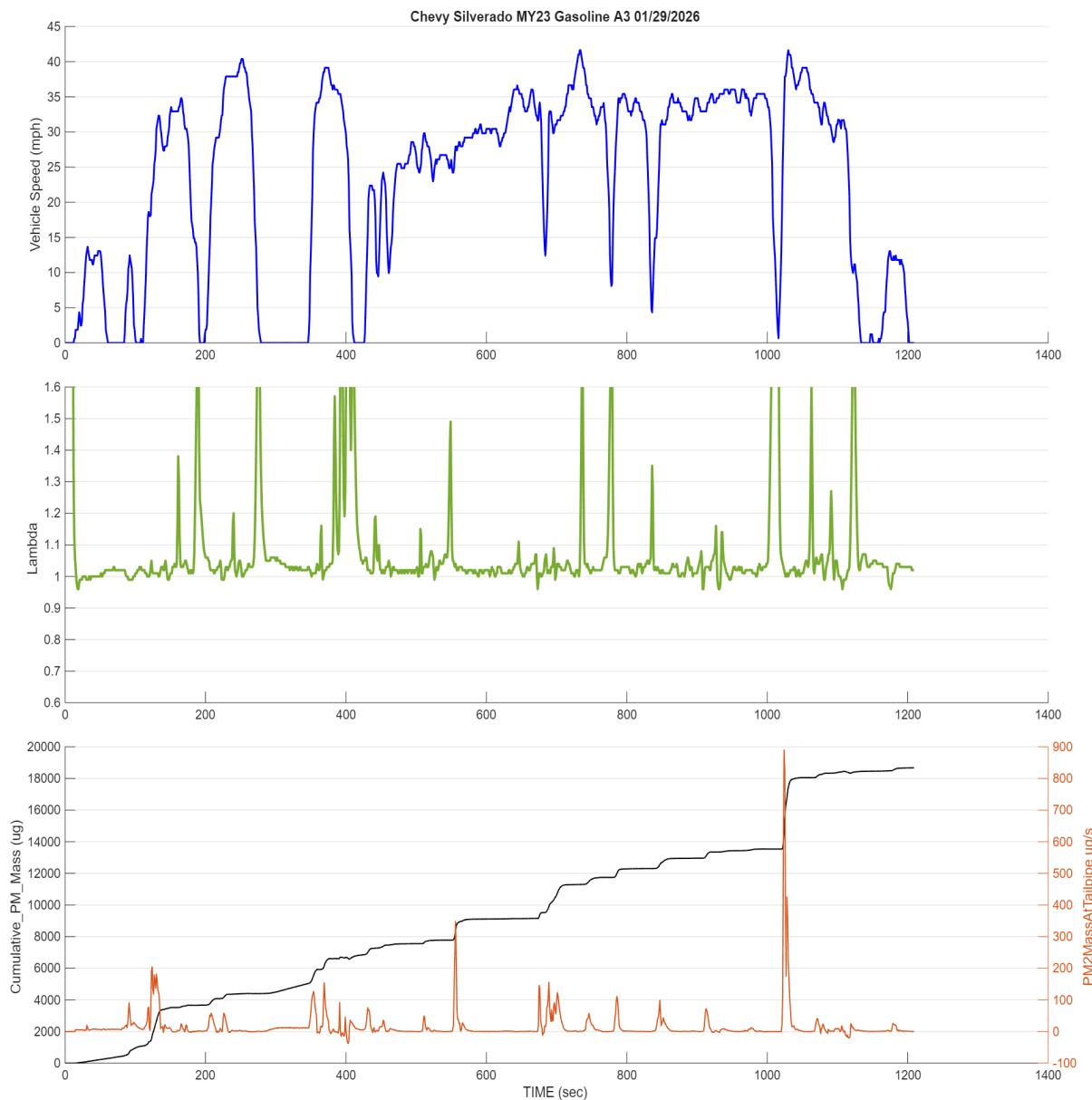
Figure: Test Cycle CO2



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Figure: Test Cycle PM



Geographic Location

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Figure: GPS Latitude and Longitude Test Route

