

Certification Summary Information Report

Manufacturer	Tesla, Inc.	Manufacturer Code	TSL
Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Certificate Number	RTSLV00.0L3S-008-R01	CARB Executive Order #	--
Certificate Issue Date	01/04/2024	Certificate Revision Date	01/05/2024
Certificate Effective Date	01/04/2024	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	01/04/2024 04:24:35 PM
Model Year	2024		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	0
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	PTSLEEVNNL3S	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	01/10/2024	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	RTSLV00.0L3S
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	Lithium-ion battery Tri-motor Model S carlines.		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group		RTSLV00.0L3S		Evaporative/Refueling Family		--	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Tesla, Inc.	1 - Tesla Motors	60 - Model S Plaid (19" Wheels)	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	59 - Model S Plaid (21" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	60 - Model S Plaid (19" Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	59 - Model S Plaid (21" Wheels)	Federal	All Wheel Drive	Automatic	1	No

Engine Description		Hybrid Description	
Hybrid Type	--	Hybrid Description	--
Engine Type	--	Mfr Engine Description	--
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	--
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--

After Treatment Device(s) (ATD)	
Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	--
Mfr Emission Control Device Comments	--

Official Test Numbers										
Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	--	--	--	--	--

Official Charge Depleting Test Numbers		
Test Group Fuel	UDDS	Highway
Electricity	RTSL10083103	RTSL10083104
Electricity	RTSL10083891	RTSL10083892

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	410	Battery Energy Capacity	256
Battery Specific Energy	175	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	3		
Motor/Generator Type 1	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Motor/Generator Type 2	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Motor/Generator Type 3	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	250
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	2 carline (Plaid (21" Wheels), Plaid (19" Wheels)) is available for Model S Tri-motor vehicles. Plaid: Front - 250 kW; Rear - 250 kW * 2		

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	ST324-517994 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RTSLV00.0L3S	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2024		

Vehicle Model

Represented Test Vehicle Make	Tesla	Represented Test Vehicle Model	Model S Plaid (21" Wheels)
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	L3S	Rated Horsepower	1006
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4777	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	5745	N/V Ratio	90.3
Axle Ratio	1		
Transmission Type	Direct Drive	# of Transmission Gears	1
Transmission Lockup	No	Creeper Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	45.32	0.4407	0.0144	-9.2	0.267	0.013	13.8
Cold CO	49.85	0.48	0.02	-10.12	0.29	0.01	N/A

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a MY2024 Model S Plaid (21" wheels) configuration. Front motor power - 250kW; Rear motor power - 250*2 kW		
Test #	RTSL10083105	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.8179	--
DT-EER (Drive Trace Energy Economy Rating)	1.9913	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.1143	--
MFR FE (Manufacturer Fuel Economy)	21.9635	153.4363831
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0

Manufacturer Test Comments

Internal Test results (CVS-75 UDDS Ambient) for MY2024 Model S Plaid (21" Wheels). Bag Splits DC wh/mi Bag1FE75 UDDS 253.5 Bag2FE75 UDDS 220.1 Bag3FE75 UDDS 244.0 Bag4FE75 UDDS 217.4 Bag1FE20 UDDS 543.8 Bag2FE20 UDDS 424.2 Bag3FE20 UDDS 374.0 Bag4FE20 UDDS 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2 Bag4FE20 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass

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Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083106	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	7.6301	--
DT-EER (Drive Trace Energy Economy Rating)	1.7407	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	9.1986	--
MFR FE (Manufacturer Fuel Economy)	23.7861	141.6793842
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0

Manufacturer Test Comments Internal Test results (HWY 3) for MY2024 Model S Plaid (21" Wheels). The HFET result from the full discharge MCT is used for the 2-part and 5-part calculations. Bag Splits DC wh/mi Bag1FE75 UDDS 253.5 Bag2FE75 UDDS 220.1 Bag3FE75 UDDS 244.0 Bag4FE75 UDDS 217.4 Bag1FE20 UDDS 543.8 Bag2FE20 UDDS 424.2 Bag3FE20 UDDS 374.0 Bag4FE20 UDDS 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--																								
Test #	RTSL10083108	Test Procedure	90 - US06																								
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																								
Test Date	10/18/2023	Fuel	N/A																								
Fuel Batch ID	--	Fuel Calibration Number	--																								
Vehicle Class	N/A	DF Type	EPA Assigned																								
Verify Test Lab ID	Tesla Kato																										
E10 Evaporative Test Measurement Method	--																										
Test Start Odometer Reading	2754	Odometer Units	M																								
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																								
State of Charge Delta	--																										
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																								
Test Results																											
<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)</th></tr><tr><td>CO (Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.3471</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.113</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.4159</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>30.1087</td><td>111.9277817</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	CO (Carbon Monoxide)	0	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3471	--	DT-EER (Drive Trace Energy Economy Rating)	0.113	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4159	--	MFR FE (Manufacturer Fuel Economy)	30.1087	111.9277817	NOX (Nitrogen Oxide)	0	--	NMOG (Non-methane organic gases)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)																									
CO (Carbon Monoxide)	0	--																									
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3471	--																									
DT-EER (Drive Trace Energy Economy Rating)	0.113	--																									
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4159	--																									
MFR FE (Manufacturer Fuel Economy)	30.1087	111.9277817																									
NOX (Nitrogen Oxide)	0	--																									
NMOG (Non-methane organic gases)	0	--																									
Manufacturer Test Comments	Internal Test results (US 06) for MY2024 Model S Plaid (21" Wheels). Bag Splits DC wh/mi Bag1FE75 UDDS 253.5 Bag2FE75 UDDS 220.1 Bag3FE75 UDDS 244.0 Bag4FE75 UDDS 217.4 Bag1FE20 UDDS 543.8 Bag2FE20 UDDS 424.2 Bag3FE20 UDDS 374.0 Bag4FE20 UDDS 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2																										

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Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083109	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.6628	--
DT-EER (Drive Trace Energy Economy Rating)	1.105	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0937	--
MFR FE (Manufacturer Fuel Economy)	29.7239	113.3767776
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments Internal Test results (SC 03) for MY2024 Model S Plaid (21" Wheels). Bag Splits DC wh/mi Bag1FE75 UDDS 253.5 Bag2FE75 UDDS 220.1 Bag3FE75 UDDS 244.0 Bag4FE75 UDDS 217.4 Bag1FE20 UDDS 543.8 Bag2FE20 UDDS 424.2 Bag3FE20 UDDS 374.0 Bag4FE20 UDDS 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083103	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	112.505
Charge Depleting Range (Calculated miles)	446	Charge Depleting Range (Actual miles)	446
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	446
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	348	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	0.7066	
6	Drive Trace Energy Economy Rating	0.131	
7	Drive Trace Inertia Work Ratio Rating	1.0749	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	133.54	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	97.898	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group			RTSLV00.0L3S				Evaporative/Refueling Family				--			
Manufacturer Test Comments			Internal Test results for MY2024 Model S Plaid (21" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 97898 wh (system gave error limited to 4 digits). Dummy data for ACT-DISTANCE & KW-HRS Cycle Energy (Wh) Distance (mi) ECdc_cyc Kuwgt Kwgt Recharge UDDS1 1785 7.462 239.20 59.80 4.36 AC WattHrs UDDS2 1672 7.448 224.56 56.14 73.49 112505.3821 UDDS3 1611 7.444 216.36 UDDS4 1617 7.455 216.86 54.21 70.97 HWY1 2491 10.253 243.00 121.50 HWY2 2426 10.261 236.42 118.21 SS1 83028 286.166 290.14 SS2 291.69 TOTAL 97897.63 347.691 K-Factors UDDS1 UDDS2 UDDS3 UDDS4 HWY1 HWY2 Unweighted 0.250 0.250 0.250 0.250 0.500 0.500 Weighted 0.018 0.327 0.327 0.327 NA NA Results Range (mi) AC Wh/mi MPGe kWh/100mi UDDSu 436.56 257.71 UDDSw 445.75 252.40 133.5404 25.2396 HWY1 408.40 275.48 122.3505 27.5479											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail		
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass		
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--		
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass		
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--		

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Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083104	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	112.505
Charge Depleting Range (Calculated miles)	408	Charge Depleting Range (Actual miles)	408
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	408
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	348	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	3.5502	
6	Drive Trace Energy Economy Rating	0.562	
7	Drive Trace Inertia Work Ratio Rating	4.743	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	122.35	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	97.898	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group			RTSLV00.0L3S				Evaporative/Refueling Family				--			
Manufacturer Test Comments			Internal Test results for MY2024 Model S Plaid (21" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 97898 wh (System error limited to 4 digits). Dummy data for KW-HRS & ACT-DISTANCE Cycle Energy (Wh) Distance (mi) ECdc_cyc Kuwgt Kwgt Recharge UDDS1 1785 7.462 239.20 59.80 4.36 AC WattHrs UDDS2 1672 7.448 224.56 56.14 73.49 112505.3821 UDDS3 1611 7.444 216.36 UDDS4 1617 7.455 216.86 54.21 70.97 HWY1 2491 10.253 243.00 121.50 HWY2 2426 10.261 236.42 118.21 SS1 83028 286.166 290.14 SS2 291.69 TOTAL 97897.63 347.691 K-Factors UDDS1 UDDS2 UDDS3 UDDS4 HWY1 HWY2 Unweighted 0.250 0.250 0.250 0.250 0.500 0.500 Weighted 0.018 0.327 0.327 0.327 NA NA Results Range (mi) AC Wh/mi MPGe kWh/100mi UDDSu 436.56 257.71 UDDSw 445.75 252.40 133.5404 25.2396 HWY 408.40 275.48 122.3505 27.5479											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail		
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass		
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--		
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass		
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--		

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Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083107	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/18/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2754	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	108.173
Charge Depleting Range (Calculated miles)	305	Charge Depleting Range (Actual miles)	305
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	305
Number of Charge Depleting Bags/Phases Conducted	41	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	305	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	2.512	
6	Drive Trace Energy Economy Rating	2.082	
7	Drive Trace Inertia Work Ratio Rating	3.978	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	30.83	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	94.128	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Manufacturer Test Comments	Internal Test results(Cold UDDS) for Model S Plaid (21" Wheels). END SOC is 94128 wh (System error limited to 4 digits) for full discharge. KW-HRS and ACT-DISTANCE values are dummy for application processing Tesla did not use external current measurement after the full cold discharge test, since AC energy is not used in any part of the 5-cycle consumption calculation. The stated recharge energy is an estimate using the DC energy from the cold discharge test and the round trip energy efficiency from the full discharge MCT. Bag Splits DC wh/mi Bag1FE75 UDDS 253.5 Bag2FE75 UDDS 220.1 Bag3FE75 UDDS 244.0 Bag4FE75 UDDS 217.4 Bag1FE20 UDDS 543.8 Bag2FE20 UDDS 424.2 Bag3FE20 UDDS 374.0 Bag4FE20 UDDS 357.5 US06CityFE 301.1 US06HwyFE 298.5 HFETFE 237.9 SC03FE95 297.2		

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	ST324-529065 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RTSLV00.0L3S	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2024		

Vehicle Model

Represented Test Vehicle Make	Tesla	Represented Test Vehicle Model	Model S Plaid (19" Wheels)
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	L3S	Rated Horsepower	1006
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	4777	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	5745	N/V Ratio	90.3
Axle Ratio	1		
Transmission Type	Direct Drive	# of Transmission Gears	1
Transmission Lockup	No	Creeper Gear	No

Dynamometer Coefficients:

Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	32.42	0.4783	0.0132	-10.43	0.3593	0.0113	11.9
Cold CO	35.66	0.53	0.01	-11.47	0.4	0.01	N/A

Test Group	RTSLV00.0L3S		Evaporative/Refueling Family		--							
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle											
Manufacturer Test Vehicle Comments	This is a MY2024 Model S Plaid (19" wheels) configuration. Front motor power - 250kW; Rear motor power - 250*2 kW											
Test #	RTSL10083893		Test Procedure		2 - CVS 75 and later (w/o can. load)							
Exhaust Test # for this Evap Test	--		Test Fuel Type		62 - Electricity							
Test Date	12/20/2023		Fuel		Electricity							
Fuel Batch ID	--		Fuel Calibration Number		--							
Vehicle Class	LDV/Passenger Car		DF Type		EPA Assigned							
Verify Test Lab ID	Tesla Kato											
E10 Evaporative Test Measurement Method	--											
Test Start Odometer Reading	2799		Odometer Units		M							
4WD Test Dyno	Yes		Diesel Adjustment Factor Usage		--							
State of Charge Delta	--											
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)		Road Speed Fan Usage		Yes							
Test Results												
Test Result Name			Unrounded Test Result		Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)							
CO (Carbon Monoxide)			0		--							
DT-ASCR (Drive Trace Absolute Speed Change Rating)			3.1615		--							
DT-EER (Drive Trace Energy Economy Rating)			3.0279		--							
DT-IWRR (Drive Trace Inertia Work Ratio Rating)			5.2454		--							
MFR FE (Manufacturer Fuel Economy)			19.2123		175.4084623							
NOX (Nitrogen Oxide)			0		--							
NMOG (Non-methane organic gases)			0		--							
Test Result Name			Unrounded Test Result		Verify Calculated CREE/OPT-CREE							
Carbon-Related Exhaust Emissions			0		0							
Manufacturer Test Comments												
Internal Test results (CVS-75 UDDS Ambient) for MY2024 Model S Plaid (19" Wheels). DC energy consumption Phase 1 = 220.1 Wh/mi; Phase 2 = 188.1 Wh/mi; Phase 3 = 213.0 Wh/mi;												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083894	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	8.758	--
DT-EER (Drive Trace Energy Economy Rating)	3.2591	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	10.4787	--
MFR FE (Manufacturer Fuel Economy)	20.6606	163.1123975
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0

Manufacturer Test Comments

Internal Test results (HWY 3) for MY2024 Model S Plaid (19" Wheels). The HFET result from the full discharge MCT is used for the 2-part and 5-part calculations. DC energy consumption = 206.6 Wh/mi;

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083896	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.4374	--
DT-EER (Drive Trace Energy Economy Rating)	1.2728	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.0366	--
MFR FE (Manufacturer Fuel Economy)	27.575	122.2121487
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments

Internal Test results (US 06) for MY2024 Model S Plaid (19" Wheels). DC energy consumption Phase 1 (Highway) = 264.6 Wh/mi; Phase 2 (City) = 275.8 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083897	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2193	--
DT-EER (Drive Trace Energy Economy Rating)	1.4756	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.4157	--
MFR FE (Manufacturer Fuel Economy)	26.43	127.5066213
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments Internal Test results (SC 03) for MY2024 Model S Plaid (19" Wheels). DC energy consumption = 264.3 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083891	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	112.754
Charge Depleting Range (Calculated miles)	512	Charge Depleting Range (Actual miles)	512
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	512
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	1.4403	
6	Drive Trace Energy Economy Rating	1.365	
7	Drive Trace Inertia Work Ratio Rating	2.4631	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	153.14	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	98.423	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		RTSLV00.0L3S			Evaporative/Refueling Family				--			
Manufacturer Test Comments		Internal Test results for MY2024 Model S Plaid (19" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 98423 wh (system gave error limited to 4 digits). MCT dc wh/mi is attached with EPA application. Added NMOG Test results. DC energy consumption UDDS1 = 215.46 Wh/mi; UDDS2 = 200.08 Wh/mi; UDDS3 = 187.22 Wh/mi; UDDS4 = 187.87 Wh/mi; UDDS weighted = 192.11 Wh/mi; UDDS1 DC discharge energy = 544.3 Wh; MCT UBE energy = 98,423 Wh										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083892	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	112.754
Charge Depleting Range (Calculated miles)	472	Charge Depleting Range (Actual miles)	472
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	472
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	3.1452	
6	Drive Trace Energy Economy Rating	1.3141	
7	Drive Trace Inertia Work Ratio Rating	4.1708	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	141.21	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	98.423	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		RTSLV00.0L3S			Evaporative/Refueling Family				--			
Manufacturer Test Comments		Internal Test results for MY2024 Model S Plaid (19" Wheels). Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 98423 wh (System error limited to 4 digits). MCT dc wh/mi is attached with application. DC energy consumption HWFE1 = 212.62 Wh/mi; HWFE2 = 204.09 Wh/mi; HWFE average = 208.35 Wh/mi										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Test #	RTSL10083895	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/20/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2799	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	108.458
Charge Depleting Range (Calculated miles)	313	Charge Depleting Range (Actual miles)	313
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	313
Number of Charge Depleting Bags/Phases Conducted	42	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	2.293	
6	Drive Trace Energy Economy Rating	1.889	
7	Drive Trace Inertia Work Ratio Rating	3.6	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	30.22	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	94.673	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
Manufacturer Test Comments	Internal Test results(Cold UDDS) for Model S Plaid (19" Wheels). END SOC is 94673 wh (System error limited to 4 digits) for full discharge. Tesla did not use external current measurement after the full cold discharge test, since AC energy is not used in any part of the 5-cycle consumption calculation. The stated recharge energy is an estimate using the DC energy from the cold discharge test and the round trip energy efficiency from the full discharge MCT. DC energy consumption Phase 1 = 544.3 Wh/mi; Phase 3 = 360.2 Wh/mi; Total charge depleting energy consumption = 302.19 Wh/mi AC wh/mi: Bag1FE20 544.3 Bag2FE20 486.7 Bag3FE20 360.2 Bag4FE20 352.9		
Fuel Properties			

Certification Summary Information Report

Test Group		RTSLV00.0L3S			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		RTSLV00.0L3S			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		RTSLV00.0L3S	Evaporative/Refueling Family		--
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		N2O	Nitrous Oxide	
CO	Carbon Monoxide		SPITBACK	Spitback Hydrocarbon in grams	
CO2	Carbon dioxide		AMP-HRS	Integrated Amp-hours	
CREE	Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		END-SOC	System End State of Charge Watt-hours	
NOX	Nitrogen Oxide		ACT-DISTANCE	Actual Distance Driven (miles)	
PM	Particulate Matter		AS-VOLT	Average System Voltage	
PM-COMP	SFTP Composite Particulate Matter		CO2 BAG 1	Bag 1 Carbon Dioxide	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 4	Bag 4 Carbon Dioxide	
NMOG	Non-methane organic gases		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
HCHO	Formaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
H3C2HO	Acetaldehyde		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-ASCR	Drive Trace Absolute Speed Change Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-EER	Drive Trace Energy Economy Rating	
CO-COMP	SFTP Composite Carbon Monoxide		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
ETHANOL	C2H5OH - Ethanol		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 2	Bag 2 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 3	Bag 3 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
MFR FE	Manufacturer Fuel Economy		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
HC	Hydrocarbon for Running Loss and ORVR		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
METHANE	CH4 - Methane		KW-HRS	Integrated DC KW-HRS	
METHANOL	CH3OH - Methanol				
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	

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Test Group		RTSLV00.0L3S	Evaporative/Refueling Family		--
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)		M	Manual	
A	Automatic		OT	Other	
AM	Automated Manual		SA	Semi-Automatic	
CVT	Continuously Variable		SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	

Certification Summary Information Report

Test Group	RTSLV00.0L3S	Evaporative/Refueling Family	--
R	2-Wheel Drive, Rear		
Additional Terms and Acronyms			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission