

## Federal Certification Evaporative Emission Standards for Light-Duty Vehicles (Passenger Cars) and Light-Duty Trucks: Evaporative and Onboard Refueling (ORVR) Test Procedures

(including NLEV and CVF programs)

	Emission Vehicle Useful Evaporative Test Procedure														
	Standards	dards Class Life Test F		Test Fuel	(2) 1-hour		3-Day Diurnal	2-Day Diurnal						ORVR	
			(years/miles)		Hot Soaks		plus Hot Soak	plus Hot Soa	ık	Running L	osses	Spitback <sup>[4</sup>	8]	(grams/gal of	
					(grams/test)		(grams/test)	(grams/test)		(grams/mile)		(grams liquid)		fuel dispensed)	
Federal	Standard	LDV	5/50,000	EPA Gasoline	2.0	(THC)									
	(Pre-Enhanced)			Methanol (M10)	2.0	(THCE)									
		LDT	11/120,000	EPA Gasoline	<sup>[51]</sup> 2.0	(THC)									
				Methanol (M10)	<sup>[51]</sup> 2.0	(THCE)									
	Enhanced	LDV,	10/100,000	EPA Gasoline			2.0 (THC)	2.5 (T	ГНС)	0.05	(THC)	1.0	(fuel)	0.20	(THC)
	Evaporative	LDT 1 & 2,	10/100,000	Methanol (M10)			2.0 (THCE)	2.5 (T	HCE)	0.05 (	(THCE)	1.0	(fuel)	0.20	(THCE)
	and ORVR	LDT 3 & 4	11/120,000	Ethanol (E10) <sup>[47]</sup>			2.0 (THCE)	2.5 (T	HCE)	0.05 (	(THCE)	1.0	(fuel)	0.20	(THCE)
		(<30 gal		CNG			2.0 (THC)							<sup>[49]</sup> NA	
		fuel tank)		LPG			2.0 (THC)							0.15	(THC)
				Diesel Fuel										<sup>[50]</sup> 0.20	(THC)
		LDT 3 & 4	11/120,000	EPA Gasoline			2.5 (THC)	3.0 (T	ГНС)	0.05	(THC)	1.0	(fuel)	0.20	(THC)
		( <u>≥</u> 30 gal		Methanol (M10)			2.5 (THCE)	3.0 (T	HCE)	0.05 (	(THCE)	1.0	(fuel)	0.20	(THCE)
		fuel tank)		Ethanol (E10) <sup>[47]</sup>			2.5 (THCE)	3.0 (T	HCE)	0.05 (	(THCE)	1.0	(fuel)	0.20	(THCE)
				CNG			2.0 (THC)							<sup>[49]</sup> NA	
				LPG			2.0 (THC)							0.15	(THC)
				Diesel Fuel										<sup>[50]</sup> 0.20	(THC)



## Federal Evaporative & Onboard Refueling (ORVR) Implementation Schedule for Light-Duty Vehicles (Passenger Cars) and Light-Duty Trucks

	Emission Vehicle		Emission												
	Standards	Class	Standards	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Federal	Pre-Enhanced	LDV, LDT	Cert & In-use	100%	80% Max	60% Max	10% Max						Tier 2 Requirements Begin		
	Enhanced	LDV, LDT	Cert & In-use <sup>[44]</sup>		20% Min	40% Min	90% Min	100%	100%	100%	100%	100%	0% See		
	ORVR	LDV	Cert & In-use <sup>[44]</sup>				40% Min	80% Min	100%	100%	100%	100%	1 0		
		LDT 1 & 2	Cert & In-use							40% Min	80% Min	100%			
		LDT 3 &4	Cert & In-use										40% Min	80% Min	100%