

VEHICLE_ID	TEST_TYPE/ PEMS_ROUTE	START_ODOMETER [mi]	START_DATE	START_TIME	PHASE_NUMBER/ BAG_NUMBER/ ROUTE_SEGMENT	GRAMS_PER_MILE_THC	GRAMS_PER_MILE_CO	GRAMS_PER_MILE_NOX	GRAMS_PER_MILE_CO2	GRAMS_PER_MILE_NMHC	GRAMS_PER_MILE_CH4	GRAMS_PER_MILE_NMOG+NOX	GRAMS_PER_MILE_N2O
IUG4 Vehicle # 1	FTP75	105182	02/01/22	10:11	Phase 1	0.119	0.5	0.15	566.00	0.045	0.079	0.19	0.030
					Phase 2	0.019	0.0	0.00	458.32	0.001	0.019	0.00	0.030
					Phase 3	0.012	0.0	0.04	434.53	0.000	0.013	0.04	0.034
					Total / Weighted Results	0.038	0.1	0.04	474.11	0.000	0.003	0.05	0.033
IUG4 Vehicle # 1	HWFET	105194	02/01/22	11:24	Phase 3	0.003	0.0	0.03	297.32	0.000	0.003	0.03	0.013
					Total / Weighted Results	0.003	0.0	0.03	298.32	0.000	0.003	0.03	0.012
IUG4 Vehicle # 1	US06	105214	02/01/22	12:22	Phase 2	0.002	0.1	0.03	491.12	0.000	0.002	0.03	0.028
					Total / Weighted Results	0.002	0.1	0.03	491.12	0.000	0.002	0.03	0.028
IUG4 Vehicle # 1	FTP75	105238	02/02/22	9:45	Phase 1	0.125	0.7	0.13	567.76	0.047	0.084	0.17	0.030
					Phase 2	0.015	0.0	0.00	463.94	0.000	0.017	0.00	0.032
					Phase 3	0.009	0.0	0.03	444.99	0.000	0.011	0.03	0.035
					Total / Weighted Results	0.036	0.1	0.03	480.23	0.010	0.029	0.04	0.032
IUG4 Vehicle # 1	HWFET	105249	02/02/22	10:55	Phase 2	0.002	0.0	0.00	298.21	0.000	0.003	0.00	0.012
					Total / Weighted Results	0.002	0.0	0.00	298.21	0.000	0.003	0.00	0.012
IUG4 Vehicle # 1	FTP75	105293	02/04/22	9:45	Phase 1	0.121	0.5	0.12	560.59	0.040	0.087	0.16	0.030
					Phase 2	0.013	0.0	0.00	458.13	0.000	0.015	0.00	0.034
					Phase 3	0.030	0.0	0.01	440.45	0.001	0.031	0.02	0.040
					Total / Weighted Results	0.040	0.1	0.03	474.50	0.009	0.034	0.04	0.035
IUG4 Vehicle # 1	HWFET	105304	02/04/22	10:52	Phase 2	0.002	0.0	0.00	301.29	0.000	0.003	0.00	0.012
					Total / Weighted Results	0.002	0.0	0.00	301.29	0.000	0.003	0.00	0.012
IUG4 Vehicle # 1	US06	105325	02/04/22	11:44	Phase 2	0.001	0.1	0.02	496.04	0.000	0.002	0.02	0.031
					Total / Weighted Results	0.001	0.1	0.02	496.04	0.000	0.002	0.02	0.031
IUG4 Vehicle # 1	FTP75	105348	02/08/22	10:28	Phase 1	0.131	0.7	0.12	554.10	0.053	0.084	0.17	0.030
					Phase 2	0.013	0.0	0.00	460.94	0.000	0.015	0.00	0.033
					Phase 3	0.035	0.0	0.02	437.78	0.001	0.036	0.02	0.038
					Total / Weighted Results	0.041	0.2	0.03	473.88	0.011	0.032	0.04	0.034
IUG4 Vehicle # 1	HWFET	105360	02/08/22	11:35	Phase 2	0.001	0.0	0.00	297.45	0.000	0.003	0.00	0.010
					Total / Weighted Results	0.001	0.0	0.00	297.45	0.000	0.003	0.00	0.010
IUG4 Vehicle # 1	US06	105380	02/08/22	12:33	Phase 2	0.001	0.2	0.02	479.39	0.000	0.003	0.02	0.033
					Total / Weighted Results	0.001	0.2	0.02	479.39	0.000	0.003	0.02	0.033
IUG4 Vehicle # 1	Special Cycle A - Hot	105430	02/09/22	13:34	Phase 3	0.005	0.0	0.00	399.96	0.001	0.004	0.00	0.029
					Phase 4	0.016	0.0	0.00	434.85	0.001	0.015	0.00	0.048
					Phase 5	0.017	0.0	0.00	434.16	0.002	0.017	0.00	0.033
					Phase 6	0.016	0.0	0.00	438.08	0.001	0.015	0.00	0.031
					Phase 7	0.016	0.0	0.00	437.93	0.002	0.015	0.00	0.031
					Phase 8	0.015	0.0	0.00	434.40	0.001	0.014	0.00	0.031
					Phase 9	0.015	0.0	0.00	435.30	0.001	0.014	0.00	0.030
					Total / Weighted Results	0.014	0.0	0.00	430.97	0.001	0.014	0.00	0.033
					Phase 1	0.130	0.7	0.12	547.21	0.056	0.079	0.17	0.026
IUG4 Vehicle # 1	Special Cycle A - Cold	105481	02/11/22	14:41	Phase 2	0.019	0.0	0.00	456.54	0.001	0.019	0.00	0.025
					Phase 3	0.020	0.0	0.00	444.93	0.001	0.021	0.00	0.030
					Phase 4	0.018	0.0	0.00	440.01	0.000	0.019	0.00	0.029
					Phase 5	0.018	0.0	0.00	433.21	0.001	0.018	0.00	0.027
					Phase 6	0.018	0.0	0.00	434.51	0.001	0.019	0.00	0.026
					Phase 7	0.018	0.0	0.00	423.94	0.001	0.018	0.00	0.026
					Total / Weighted Results	0.034	0.1	0.02	453.38	0.008	0.027	0.02	0.027
IUG4 Vehicle # 1	Special Cycle A - Hot	105508	02/11/22	17:05	Phase 3	0.005	0.0	0.00	393.11	0.000	0.004	0.00	0.023
					Phase 4	0.017	0.0	0.00	434.77	0.001	0.017	0.00	0.042
					Phase 5	0.016	0.0	0.00	437.00	0.001	0.016	0.00	0.030
					Phase 6	0.017	0.0	0.00	428.45	0.001	0.017	0.00	0.028
					Phase 7	0.016	0.0	0.00	432.19	0.002	0.016	0.00	0.028
					Phase 8	0.017	0.0	0.00	426.30	0.001	0.017	0.00	0.027
					Phase 9	0.017	0.0	0.00	435.22	0.001	0.016	0.00	0.028
					Total / Weighted Results	0.015	0.0	0.00	427.05	0.001	0.015	0.00	0.029
					A0	0.025	0.2	0.03	308.28	0.025	0.001	0.05	
IUG4 Vehicle # 1	Transfer LATC to ARB / Combined Route-A0	105.643	02/18/22	10:28	A0	0.001	0.0	0.01	272.76	0.001	0.000	0.01	
	Freeway East / Combined Route-A1	105.667	02/18/22	11:13	A1	0.001	0.0	0.03	519.30	0.001	0.000	0.03	
	Uphill / Combined Route-A2	105.694	02/18/22	11:49	A2	0.021	0.2	0.04	180.78	0.021	0.001	0.06	
	Downhill / Combined Route-B1	105.711	02/18/22	12:28	B1	0.002	0.0	0.01	223.94	0.002	0.000	0.01	
	Freeway West / Combined Route-B2	105.728	02/18/22	13:05	B2	0.009	0.1	0.02	290.32	0.009	0.000	0.03	
IUG4 Vehicle # 1	PEMS Combined Route				Total / Weighted Results	0.020	0.1	0.05	354.42	0.020	0.001	0.07	
	Transfer LATC to L.A. Downtown / DT0	105.781	02/22/22	10:55	DT0	0.031	0.2	0.09	328.04	0.031	0.001	0.12	
	Urban Downtown Los Angeles Route/ DT1	105.799	02/22/22	11:20	DT1	0.008	0.0	0.01	385.32	0.008	0.000	0.02	
	PEMS Urban/Downtown Los Angeles Route				Total / Weighted Results	0.044	0.3	0.04	322.14	0.043	0.001	0.09	
	Transfer LATC to L.A. Downtown / DT0	105.928	03/18/22	10:01	DT0	0.010	0.0	0.01	457.88	0.010	0.000	0.02	
IUG4 Vehicle # 1	Urban Downtown Los Angeles Route/ DT1	105.947	03/18/22	10:28	DT1	0.029	0.2	0.03	384.66	0.028	0.001	0.06	
	PEMS Urban/Downtown Los Angeles Route				Total / Weighted Results	0.023	0.2	0.04	307.17	0.022	0.001	0.06	
	Transfer LATC to ARB / Combined Route-A0	105.980	03/21/22	11:23	A0	0.003	0.1	0.01	297.86	0.003	0.000	0.02	
	Freeway East / Combined Route-A1	106.004	03/21/22	11:55	A1	0.004	0.0	0.04	569.29	0.003	0.000	0.05	
	Uphill / Combined Route-A2	106.031	03/21/22	12:26	A2	0.034	0.3	0.03	195.40	0.033	0.001	0.06	
IUG4 Vehicle # 1	Downhill / Combined Route-B1	106.048	03/21/22	13:01	B1	0.005	0.1	0.01	253.01	0.004	0.000	0.02	
	Freeway West / Combined Route-B2	106.066	03/21/22	13:33	B2	0.019	0.1	0.02	313.05	0.012	0.000	0.04	
	PEMS Combined Route				Total / Weighted Results	0.019	0.1	0.02	313.05	0.012	0.000	0.04	

#### Emissions Sampling Table

Emissions sample table is an enhancement to Appendix B, 4.a.vi

	Bag Results (g/mi)	Second-by-second modal emissions concentration in PPM (undiluted modal)
THC <sup>1</sup>	✓	✓
CO	✓	✓
NOx	✓	✓
CO2	✓	✓
NMHC <sup>2</sup>	✓	
CH4	✓	
N2O	✓	
NMOG <sup>3</sup> +NOx	✓	

1: per CFR Title 40 Part 86 Subpart B 110-94 (a)(2) and (3) for FTP and SFTP cycles, THC is an integrated measurement for the sample. For Special Cycle-A tests, THC is sampled directly from the bag.

2: NMHC is calculated based on THC - CH4. See comment 1 regarding THC. For PEMS testing, NMHC is calculated as: NMHC= 0.98xTHC.

3: For diesel vehicles, NMOG shall mean non-methane hydrocarbons and shall be measured in accordance with Part B (Determination of NMHC Emissions by Flame Ionization Detection) of the "California Non-Methane Organic Gas Test Procedures."