

APPENDIX D

SUMMARIES OF TASK 2 ALDEHYDE/KETONE EMISSIONS

TABLE D-1. SUMMARY OF TOYOTA CAMRY TASK 2 ALDEHYDE/KETONE EMISSION TEST RESULTS

Date	Test No.	Fuel	Catalyst	Test Cycle	Form. (mg/ml)	Acet. (mg/ml)	Acrolein (mg/ml)	Acetone (mg/ml)	Propion. (mg/ml)	Croton. (mg/ml)	Isobuty. & Mek (mg/ml)	Benz. (mg/ml)	Hexan. (mg/ml)
3/13/90	B2TTCU-01	M85	OEM	FTP	17.5	0.5	0.1	0.0	0.0	0.0	0.0	0.2	0.0
3/13/90	B2TTCU-01	M85	OEM	HFET	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/13/90	B2TTCU-01	M85	OEM	NYCC	5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/28/90	B2THCU-01	M85	Camet	FTP	10.5	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2/28/90	B2THCU-01	M85	Camet	HFET	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/28/90	B2THCU-01	M85	Camet	NYCC	4.6	0.7	0.0	0.0	1.0	0.5	3.4	0.0	0.0
3/01/90	B2THCU-02	M85	Camet	FTP	8.5	0.6	0.0	0.5	0.0	0.0	0.0	0.1	0.0
3/01/90	B2THCU-02	M85	Camet	HFET	1.6	0.5	0.0	0.2	0.1	0.0	0.1	0.0	0.0
3/01/90	B2THCU-02	M85	Camet	NYCC	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/16/90	B2TDCC-01	M85	Degussa	FTP	10.8	0.9	0.1	0.0	0.2	0.0	0.0	0.2	0.0
3/16/90	B2TDCC-01	M85	Degussa	HFET	3.8	1.6	0.0	0.0	0.1	0.0	0.0	0.1	0.0
3/16/90	B2TDCC-01	M85	Degussa	NYCC	22.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/19/93	B2TDCC-02	M85	Degussa	FTP	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3/19/93	B2TDCC-02	M85	Degussa	HFET	3.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/19/93	B2TDCC-02	M85	Degussa	NYCC	9.0	0.5	0.0	0.0	0.2	0.3	0.0	0.0	0.9
7/02/90	B2TJM2-01	M85	JM	FTP	16.3	0.3	0.0	0.0	0.5	0.0	0.0	0.2	0.0
7/02/90	B2TJM2-01	M85	JM	HFET	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/02/90	B2TJM2-01	M85	JM	NYC	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/03/90	B2TJM2-02	M85	JM	FTP	20.5	0.4	0.0	0.0	0.1	0.1	0.0	0.2	0.0
7/03/90	B2TJM2-02	M85	JM	HFET	1.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/03/90	B2TJM2-02	M85	JM	NYCC	3.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE D-2. SUMMARY OF CHEVROLET CORSICA TASK 2 ALDEHYDE/KETONE EMISSION TEST RESULTS

Date	Test No.	Fuel	Catalyst	Test Cycle	Form. (mg/ml)	Acet. (mg/ml)	Acrolein (mg/ml)	Acetone (mg/ml)	Propion. (mg/ml)	Croton. (mg/ml)	Isobuty. & Mek (mg/ml)	Benz. (mg/ml)	Hexan. (mg/ml)
3/02/90	B2CHCU-01	M85	Camet	FTP	4.8	0.3	0.0	0.0	0.1	0.0	0.1	0.1	0.0
3/02/90	B2CHCU-01	M85	Camet	HFET	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/02/90	B2CHCU-01	M85	Camet	HYCC	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/05/90	B2CHCU-02	M85	Camet	FTP	10.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3/05/90	B2CHCU-02	M85	Camet	HFET	0.9	0.3	0.0	0.0	0.1	0.1	0.1	0.0	0.1
3/05/90	B1CHCU-02	M85	Camet	NYCC	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/26/90	B2CDCC-01	M85	Degussa	FTP	6.9	0.3	0.1	0.0	0.1	0.1	0.2	0.1	0.1
3/26/90	B2CDCC-01	M85	Degussa	HFET	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/26/90	B2CDCC-01	M85	Degussa	NYCC	9.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/27/90	B2CDCC-02	M85	Degussa	FTP	6.8	0.4	0.1	0.0	0.1	0.0	0.1	0.1	0.0
3/27/90	B2CDCC-02	M85	Degussa	HFET	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/27/90	B2CDCC-02	M85	Degussa	HYCC	3.2	1.2	0.5	0.0	0.8	0.5	1.1	0.0	0.0
5/29/90	B2CJM4-01	M85	JM	FTP	6.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
5/29/90	B2CJM4-01	M85	JM	HFET	1.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
5/29/90	B2CJM4-01	M85	JM	NYCC	4.3	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
5/30/90	B2CJM4-02	M85	JM	FTP	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
5/30/90	B2CJM4-02	M85	JM	HFET	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/30/90	B2CJM4-02	M85	JM	NYCC	2.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
3/06/90	B1CHCU-01	Howell EEE	Camet	FTP	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/06/90	B1CHCU-01	Howell EEE	Camet	HFET	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/06/90	B1CHCU-01	Howell EEE	Camet	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/07/90	B1CHCU-02	Howell EEE	Camet	FTP	1.8	0.5	0.0	0.0	0.0	0.0	0.2	0.2	0.0
3/07/90	B1CHCU-02	Howell EEE	Camet	HFET	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/07/90	B1CHCU-02	Howell EEE	Camet	HYCC	0.0	1.4	0.0	0.0	0.0	0.5	2.1	0.0	0.7
3/22/90	B1CDCC-01	Howell EEE	Degussa	FTP	3.1	5.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0
3/22/90	B1CDCC-01	Howell EEE	Degussa	HFET	1.0	3.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1
3/22/90	B1CDCC-01	Howell EEE	Degussa	NYCC	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/23/90	B1CDCC-02	Howell EEE	Degussa	FTP	3.6	0.8	0.0	0.2	0.1	0.0	0.1	0.1	0.0
3/23/90	B1CDCC-02	Howell EEE	Degussa	HFET	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/23/90	B1CDCC-02	Howell EEE	Degussa	NYCC	10.4	1.0	0.5	0.0	0.5	0.5	1.4	0.0	1.0
5/31/90	B1CJM4-01	Howell EEE	JM	FTP	2.5	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0
5/31/90	B1CJM4-01	Howell EEE	JM	HFET	1.1	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5/31/90	B1CJM4-01	Howell EEE	JM	NYCC	6.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/01/90	B1CJM4-02	Howell EEE	JM	FTP	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.1
6/01/90	B1CJM4-02	Howell EEE	JM	HFET	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/01/90	B1CJM4-02	Howell EEE	JM	NYCC	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE D-3. SUMMARY OF CROWN VICTORIA #1 ALDEHYDE/KETONE EMISSION TEST RESULTS

Date	Test No.	Fuel	Catalyst	Test Cycle	FORM. (mg/ml)	ACET. (mg/ml)	ACROLEIN (mg/ml)	ACETONE (mg/ml)	PROPION. (mg/ml)	CROTON. (mg/ml)	ISOBUTYR. & MEK (mg/ml)	BENZ. (mg/ml)	HEXAN. (mg/ml)
1/08/91	B2FBL1-01	M85	OEM	FTP	9.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
1/08/91	B2FBL1-01	M85	OEM	HFET	2.4	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0
1/08/91	B2FBL1-01	M85	OEM	HYCC	8.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
12/26/90	B2FJM1-02	M85	JM	FTP	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/26/90	B2FJM1-02	M85	JM	HFET	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/26/90	B2FJM1-02	M85	JM	NYCC	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/03/91	B2FJM1-03	M85	JM	FTP	3.3	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/03/91	B2FJM1-03	M85	JM	HFET	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/03/91	B2FJM1-03	M85	JM	NYCC	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/23/91	B2FD-01	M85	Degussa	FTP	0.5	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/23/91	B2FD-01	M85	Degussa	HFET	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/23/91	B2FD-02	M85	Degussa	NYCC	0.4	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0
1/24/91	B2FD-02	M85	Degussa	FTP	0.8	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/24/91	B2FD-02	M85	Degussa	HFET	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/24/91	B2FD-02	M85	Degussa	HYCC	0.2	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
5/02/91	B2FHC-01	M85	Camet	FTP	1.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
5/02/91	B2FHC-01	M85	Camet	HFET	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/02/91	B2FHC-01	M85	Camet	NYCC	1.9	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
5/03/91	B2FHC-02	M85	Camet	FTP	1.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
5/03/91	B2FHC-02	M85	Camet	HFET	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/03/91	B2FHC-02	M85	Camet	NYCC	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/09/91	B1FBL1-0	Howell EEE	OEM	FTP	2.2	0.6	0.1	0.0	0.0	0.0	0.0	0.4	0.0
1/09/91	B1FBL1-0	Howell EEE	OEM	HFET	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/09/91	B1FBL1-0	Howell EEE	OEM	NYCC	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/27/90	B1FJM1-0	Howell EEE	JM	FTP	0.8	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0
12/27/90	B1FJM1-0	Howell EEE	JM	HFET	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/27/90	B1FJM1-0	Howell EEE	JM	HYCC	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/02/91	B1FJM1-03	Howell EEE	JM	FTP	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/02/91	B1FJM1-03	Howell EEE	JM	HFET	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/02/91	B1FJM1-03	Howell EEE	JM	NYCC	3.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/21/91	B1FD-01	Howell EEE	Degussa	FTP	0.1	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0
1/21/91	B1FD-01	Howell EEE	Degussa	HFET	0.3	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/21/91	B1FD-01	Howell EEE	Degussa	NYCC	1.0	0.4	0.0	1.2	0.0	0.0	0.0	0.0	0.0
1/22/91	B1FD-02	Howell EEE	Degussa	FTP	0.1	0.7	0.1	0.5	0.0	0.0	0.0	0.0	0.4
1/22/91	B1FD-02	Howell EEE	Degussa	HFET	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/22/91	B1FD-02	Howell EEE	Degussa	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/06/91	B1FHC-01	Howell EEE	Camet	FTP	1.5	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
5/06/91	B1FHC-01	Howell EEE	Camet	HFET	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
5/06/91	B1FHC-01	Howell EEE	Camet	NYCC	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/07/91	B1FHC-02	Howell EEE	Camet	FTP	1.6	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0
5/07/91	B1FHC-02	Howell EEE	Camet	HFET	0.3	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0
5/07/91	B1FHC-02	Howell EEE	Camet	NYCC	0.9	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0

TABLE D-4. SUMMARY OF VW JETTA TASK 2 ALDEHYDE/KETONE EMISSION TEST RESULTS

Date	Test No.	Fuel	Catalyst	Test Cycle	FORM. (mg/ml)	ACET. (mg/ml)	ACROLEIN (mg/ml)	ACETONE (mg/ml)	PROPION. (mg/ml)	CROTON. (mg/ml)	ISOBUTYR. & MEK (mg/ml)	BENZ. (mg/ml)	HEXAN. (mg/ml)
12/19/90	B2VBL-01	M85	OEM	FTP	6.1	0.4	0.0	1.0	0.0	0.0	0.0	0.3	0.0
12/19/90	B2VBL-01	M85	OEM	HFET	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/19/90	B2VBL-01	M85	OEM	NYCC	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/09/91	B2VJM-01	M85	JM	FTP	2.4	0.1	0.0	0.2	0.0	0.0	0.0	0.2	0.0
5/09/91	B2VJM-01	M85	JM	HFET	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5/09/91	B2VJM-01	M85	JM	NYCC	0.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
5/10/91	B2VJM-02	M85	JM	FTP	2.5	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
5/10/91	B2VJM-02	M85	JM	HFET	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5/10/91	B2VJM-02	M85	JM	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
7/23/91	B2VDC-01	M85	Degussa	FTP	2.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
7/23/91	B2VDC-01	M85	Degussa	HFET	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
7/23/91	B2VDC-01	M85	Degussa	NYCC	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7/24/91	B2VDC-02	M85	Degussa	FTP	2.4	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0
7/24/91	B2VDC-02	M85	Degussa	HFET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/24/91	B2VDC-02	M85	Degussa	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/30/91	B2VHC-01A	M85	Camet	FTP	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
9/30/91	B2VHC-01A	M85	Camet	HFET	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
9/30/91	B2VHC-01A	M85	Camet	NYCC	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10/01/91	B2VHC-01A	M85	Camet	FTP	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10/01/91	B2VHC-01A	M85	Camet	HFET	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10/01/91	B2VHC-01A	M85	Camet	NYCC	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
12/18/90	B1VBL-01	Howell EEE	OEM	FTP	1.8	0.9	0.1	0.4	0.0	0.0	0.0	0.4	0.4
12/18/90	B1VBL-01	Howell EEE	OEM	HFET	0.8	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
12/18/90	B1VBL-01	Howell EEE	OME	NYCC	8.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
5/13/91	B1VJM-01	Howell EEE	JM	FTP	0.3	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0
5/13/91	B1VJM-01	Howell EEE	JM	HFET	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
5/13/91	B1VJM-01	Howell EEE	JM	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/14/91	B1VJM-02	Howell EEE	JM	FTP	0.5	0.2	0.0	0.3	0.0	0.0	0.1	0.1	0.0
5/14/91	B1VJM-02	Howell EEE	JM	HFET	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5/14/91	B1VJM-02	Howell EEE	JM	NYCC	0.4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
7/22/91	B1VDC-01	Howell EEE	Degussa	FTP	0.2	0.3	0.0	0.02	0.0	0.0	0.0	0.0	0.0
7/18/91	B1VDC-01	Howell EEE	Degussa	HFET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/18/91	B1VDC-01	Howell EEE	Degussa	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/19/91	B1VDC-02	Howell EEE	Degussa	FTP	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0
7/19/91	B1VDC-02	Howell EEE	Degussa	HFET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/19/91	B1VDC-02	Howell EEE	Degussa	NYCC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/02/91	VHC-01A	Howell EEE	Camet	FTP	0.0	0.03	0.0	0.09	0.0	0.0	0.0	0.0	0.0
10/02/91	VHC-01A	Howell EEE	Camet	HFET	0.0	0.13	0.0	0.04	0.0	0.0	0.0	0.0	0.0
10/02/91	VHC-01A	Howell EEE	Camet	NYCC	0.0	0.49	0.0	0.0	0.0	0.0	0.36	0.0	0.0
10/03/91	B1VHC-02A	Howell EEE	Camet	FTP	0.0	0.10	0.0	0.14	0.0	0.0	0.0	0.0	0.0
10/03/91	B1VHC-02A	Howell EEE	Camet	HFET	0.0	0.07	0.0	0.08	0.0	0.0	0.0	0.0	0.0
10/03/91	B1VHC-02A	Howell EEE	Camet	NYCC	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0

APPENDIX E

COMPUTER PRINTOUTS OF REGULATED ENGINE-OUT FTP EXHAUST EMISSIONS

Page E-	Test No.	Vehicle	Configuration	Fuel
2	B1CBL	Corsica	No Catalyst	Gasoline
3	B1CBL	Corsica	No Catalyst	M85

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 00-2346-001

TEST NO. B1CBL RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 11/ 1/89
BAG CART NO. 2 / CVS NO. 2
DYND NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-891-F
ODOMETER 2340. KM(1454. MILES)

BAROMETER 742.95 MM HG(29.25 IN HG)
RELATIVE HUMIDITY 32. PCT

DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 6.2 GM/KG

NOX HUMIDITY CORRECTION FACTOR .87

BAG RESULTS

BAG NUMBER
DESCRIPTION

1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(INL. H2O)	716.3 (28.2)	716.3 (28.2)	723.9 (28.5)
BLOWER INLET P MM. H2O(INL. H2O)	716.3 (28.2)	716.3 (28.2)	723.9 (28.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)	41.1 (106.0)	42.2 (108.0)
BLOWER REVOLUTIONS	48574.	69579.	48583.
TOT FLOW STD. CU. METRES(SCF)	76.4 (2696.)	131.1 (4628.)	76.1 (2686.)
THC SAMPLE METER/RANGE/PPM	23.0/ 3/ 231.	14.0/ 3/ 141.	16.8/ 3/ 169.
THC BCKGRD METER/RANGE/PPM	.9/ 3/ 9.	1.0/ 3/ 10.	.9/ 3/ 9.
CO SAMPLE METER/RANGE/PPM	62.4/ 1/ 561.	65.4/ 14/ 304.	89.2/ 14/ 441.
CO BCKGRD METER/RANGE/PPM	.7/ 1/ 5.	.7/ 14/ 3.	.5/ 14/ 2.
CO2 SAMPLE METER/RANGE/PCT	57.2/ 1/1.0494	81.0/ 14/ .6772	93.4/ 14/ .9535
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	13.1/ 14/ .0442	12.9/ 14/ .0434
NOX SAMPLE METER/RANGE/PPM	61.3/ 2/ 61.3	80.9/ 1/ 20.3	53.5/ 2/ 53.5
NOX BCKGRD METER/RANGE/PPM	.0/ 2/ .0	.5/ 1/ .1	.1/ 2/ .1
DILUTION FACTOR	11.89	18.59	13.23
THC CONCENTRATION PPM	223.	131.	161.
CO CONCENTRATION PPM	540.	294.	426.
CO2 CONCENTRATION PCT	1.0057	.6354	.9134
NOX CONCENTRATION PPM	61.3	20.1	53.4
THC MASS GRAMS	9.80	9.93	7.04
CO MASS GRAMS	47.98	44.86	37.73
CO2 MASS GRAMS	1406.0	1524.6	1271.9
NOX MASS GRAMS	7.80	4.40	6.77
THC GRAMS/MI	2.74	2.57	1.97
CO GRAMS/MI	13.41	11.63	10.54
CO2 GRAMS/MI	393.1	395.2	355.4
NOX GRAMS/MI	2.18	1.14	1.89
FUEL ECONOMY IN MPG	20.97	21.00	23.44
RUN TIME SECONDS	506.	868.	505.
MEASURED DISTANCE MI	3.58	7.44	3.58
SCF, DRY	.980	.982	.981
DFC, WET (DRY)	.935(.925)		.938(.928)
TOT VOL (SCM) / SAM BLR (SCM)	207.4/ .00		206.9/ .00

COMPOSITE RESULTS

TEST NUMBER B1CBL
BAROMETER MM HG 743.0
HUMIDITY G/KG 6.2
TEMPERATURE DEG C 24.4

CARBON DIOXIDE	G/MI	383.8	(384.7)
FUEL ECONOMY	MPG	21.63	(21.57)
HYDROCARBONS (THC)	G/MI	2.44	(2.35)
CARBON MONOXIDE	G/MI	11.70	(12.09)
OXIDES OF NITROGEN	G/MI	1.56	(1.60)

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FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 82CBL RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 11/ 2/89
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-954-F
ODOMETER 2398. KM(1490. MILES)

BAROMETER 749.05 MM HG(29.49 IN HG)

RELATIVE HUMIDITY 24. PCT

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)

ABS. HUMIDITY 4.7 GM/KG

NOX HUMIDITY CORRECTION FACTOR .84

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)
BLOWER INLET P MM. H2O(IN. H2O)	718.8 (28.3)	718.8 (28.3)	718.8 (28.3)	718.8 (28.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)	41.1 (106.0)	42.8 (109.0)	43.9 (111.0)
BLOWER REVOLUTIONS	48552.	69564.	48526.	69570.
TOT FLOW STD. CU. METRES(SCF)	76.9 (2715.)	132.2 (4666.)	76.8 (2710.)	131.5 (4644.)
THC SAMPLE METER/RANGE/PPM	11.4/ 3/ 115.	61.9/ 2/ 62.	76.4/ 2/ 77.	62.0/ 2/ 62.
THC BCKGRD METER/RANGE/PPM	.9/ 3/ 9.	10.2/ 2/ 10.	11.8/ 2/ 12.	11.9/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	56.0/ 1/ 489.	59.1/ 14/ 270.	83.7/ 14/ 408.	61.1/ 14/ 280.
CO BCKGRD METER/RANGE/PPM	.0/ 1/ 0.	.0/ 14/ 0.	.2/ 14/ 1.	.1/ 14/ 0.
CO2 SAMPLE METER/RANGE/PCT	93.2/ 14/ .9482	77.6/ 14/ .6169	89.1/ 14/ .8457	77.8/ 14/ .6203
CO2 BCKGRD METER/RANGE/PCT	12.3/ 14/ .0411	12.2/ 14/ .0407	12.1/ 14/ .0403	12.1/ 14/ .0403
NOX SAMPLE METER/RANGE/PPM	56.3/ 2/ 56.3	70.4/ 1/ 17.6	44.1/ 2/ 44.1	79.3/ 1/ 19.9
NOX BCKGRD METER/RANGE/PPM	.1/ 2/ .1	.4/ 1/ .1	.1/ 2/ .1	.1/ 1/ .0
DILUTION FACTOR	11.95	18.53	13.48	18.40
THC CONCENTRATION PPM	107.	52.	66.	51.
CO CONCENTRATION PPM	473.	263.	395.	273.
CO2 CONCENTRATION PCT	.9105	.5784	.8084	.5822
NOX CONCENTRATION PPM	56.2	17.5	44.0	19.8
THC MASS GRAMS	9.11	7.70	5.60	7.44
CO MASS GRAMS	42.30	40.46	35.32	41.81
CO2 MASS GRAMS	1281.7	1399.5	1136.1	1401.7
NOX MASS GRAMS	6.90	3.70	5.40	4.17
THC GRAMS/MI	2.55	1.99	1.57	1.93
CO GRAMS/MI	11.84	10.46	9.89	10.87
CO2 GRAMS/MI	358.8	361.7	318.3	364.6
NOX GRAMS/MI	1.93	.96	1.51	1.08
FUEL ECONOMY IN MPG	12.77	12.77	14.48	13.47
RUN TIME SECONDS	585.	867.	585.	868.
MEASURED DISTANCE MI	3.57	7.44	3.57	7.41
SCF, DRY	.976	.980	.978	.980
DFC, WET (DRY)		.935(.928)		.938(.931)
TOT VOL (SCM) / SAM BLR (SCM)		209.0/ .00		208.3/ .00

COMPOSITE RESULTS

TEST NUMBER 82CBL
BAROMETER MM HG 749.0
HUMIDITY G/KG 4.7
TEMPERATURE DEG C 25.0

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	349.2	(350.0)
FUEL ECONOMY MPG	13.20	(13.16)
HYDROCARBONS (THC) G/MI	1.99	(1.97)
CARBON MONOXIDE G/MI	10.59	(10.71)
OXIDES OF NITROGEN G/MI	1.31	(1.35)

APPENDIX F

COMPUTER PRINTOUTS OF CHEVROLET CORSICA FTP EXHAUST EMISSIONS WITH OEM CATALYST ON M85 WITH NEW FUEL INJECTORS

Page F-	Test No.	Vehicle	Configuration	Fuel
2	C	Corsica	OEM Catalyst	M85
3	D	Corsica	OEM Catalyst	M85

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PROJECT 08-2346-001

TEST NO. 0 RUN 1
VEHICLE MODEL 99 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 1/10/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-954-F
ODOMETER 1483. KM(1543. MILES)

BAROMETER 746.51 MM HG(29.39 IN HG)
RELATIVE HUMIDITY 62. PCT
BAG RESULTS

DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 11.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.02

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)
BLOWER INLET P MM. H2O(IN. H2O)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	41.1 (106.0)	42.8 (109.0)	42.8 (109.0)
BLOWER REVOLUTIONS	40612.	69604.	40572.	69619.
TOT FLOW STD. CU. METRES(SCF)	76.5 (2702.)	131.7 (4649.)	76.5 (2702.)	131.3 (4636.)
THC SAMPLE METER/RANGE/PPM	55.2/ 2/ 55.	8.7/ 2/ 9.	20.3/ 2/ 20.	10.7/ 2/ 11.
THC BCKGRD METER/RANGE/PPM	9.3/ 2/ 9.	9.3/ 2/ 9.	12.6/ 2/ 12.	12.3/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	71.4/ 13/ 171.	3.5/ 12/ 3.	56.5/ 13/ 133.	1.6/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.3/ 13/ 1.	.6/ 12/ 1.	.0/ 13/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	54.8/ 1/1.0045	79.9/ 14/ .6571	91.3/ 14/ .8990	80.7/ 14/ .6716
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	13.4/ 14/ .0454	13.4/ 14/ .0454	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	52.9/ 1/ 13.3	9.4/ 1/ 2.4	17.8/ 1/ 4.6	8.5/ 1/ 2.2
NOX BCKGRD METER/RANGE/PPM	.2/ 1/ .1	.1/ 1/ .0	.2/ 1/ .1	.3/ 1/ .1
DILUTION FACTOR	11.73	18.28	13.17	17.89
THC CONCENTRATION PPM	46.	0.	9.	0.
CO CONCENTRATION PPM	163.	3.	127.	1.
CO2 CONCENTRATION PCT	.9609	.6142	.8571	.6292
NOX CONCENTRATION PPM	13.2	2.4	4.5	2.1
THC MASS GRAMS	3.93	.00	.73	.00
CO MASS GRAMS	14.50	.41	11.34	.22
CO2 MASS GRAMS	1346.3	1400.6	1200.7	1512.4
NOX MASS GRAMS	1.97	.62	.67	.55
THC GRAMS/MI	1.09	.00	.20	.00
CO GRAMS/MI	4.03	.11	3.14	.06
CO2 GRAMS/MI	374.0	381.3	332.9	388.7
NOX GRAMS/MI	.55	.16	.19	.14
FUEL ECONOMY IN MPG	12.75	12.76	14.41	13.37
RUN TIME SECONDS	505.	867.	505.	868.
MEASURED DISTANCE MI	3.60	7.48	3.61	7.50
SCF. DRY	.963	.967	.965	.967
DFC. WET (DRY)		.934(.915)		.937(.918)
TOT VOL (SCM) / SAM BLR (SCM)		208.2/ .20		207.8/ .00

COMPOSITE RESULTS

TEST NUMBER C
BAROMETER MM HG 746.5
HUMIDITY G/KG 11.3
TEMPERATURE DEG C 23.3

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	366.5	(368.7)
FUEL ECONOMY MPG	13.18	(13.10)
HYDROCARBONS (THC) G/MI	.28	(.28)
CARBON MONOXIDE G/MI	1.75	(1.74)
OXIDES OF NITROGEN G/MI	.25	(.24)

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PROJECT 88-2346-001

TEST NO. D1 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 1/11/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-954-F
ODOMETER 2506. KM(1557. MILES)

BAROMETER 743.20 MM HG(29.26 IN HG)
RELATIVE HUMIDITY 51. PCT

DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 9.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .96

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)	723.9 (28.5)
BLOWER INLET P MM. H2O(IN. H2O)	723.9 (28.5)	718.8 (28.3)	716.3 (28.2)	718.8 (28.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	42.2 (108.0)	42.8 (109.0)	42.2 (108.0)
BLOWER REVOLUTIONS	40601.	69625.	40524.	69533.
TOT FLOW STD. CU. METRES(SCF)	76.2 (2691.)	130.9 (4621.)	76.1 (2688.)	130.7 (4615.)
THC SAMPLE METER/RANGE/PPM	59.0/ 2/ 58.	9.7/ 2/ 10.	13.6/ 2/ 13.	10.6/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	9.5/ 2/ 9.	9.9/ 2/ 10.	9.5/ 2/ 9.	10.9/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	63.3/ 13/ 150.	3.0/ 12/ 3.	97.4/ 12/ 98.	4.7/ 12/ 4.
CO BCKGRD METER/RANGE/PPM	.0/ 13/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.5/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	55.2/ 1/1.0120	80.4/ 14/ .6661	91.8/ 14/ .9116	80.8/ 14/ .6735
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441	13.1/ 14/ .0442	13.2/ 14/ .0446	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	48.7/ 1/ 12.2	9.6/ 1/ 2.5	23.6/ 1/ 6.0	8.5/ 1/ 2.2
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0	.0/ 1/ .0	.0/ 1/ .0	.0/ 1/ .0
DILUTION FACTOR	11.66	18.03	13.05	17.83
THC CONCENTRATION PPM	50.	0.	5.	0.
CO CONCENTRATION PPM	144.	3.	94.	4.
CO2 CONCENTRATION PCT	.9717	.6244	.8705	.6310
NOX CONCENTRATION PPM	12.2	2.5	6.0	2.2
THC MASS GRAMS	4.22	.05	.40	.04
CO MASS GRAMS	12.76	.42	8.35	.59
CO2 MASS GRAMS	1355.6	1496.1	1213.0	1509.8
NOX MASS GRAMS	1.70	.60	.83	.53
THC GRAMS/MI	1.18	.01	.11	.01
CO GRAMS/MI	3.56	.11	2.32	.15
CO2 GRAMS/MI	377.7	385.1	336.8	389.3
NOX GRAMS/MI	.47	.15	.23	.14
FUEL ECONOMY IN MPG	12.65	12.64	14.30	12.50
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.59	7.47	3.60	7.48
SCF. DRY	.967	.970	.968	.972
DFC. WET (DRY)		.933(.918)		.936(.921)
TOT VOL (SCM) / SAM BLR (SCM)		207.1/ .00		206.8/ .00

COMPOSITE RESULTS

TEST NUMBER D1
BAROMETER MM HG 743.2
HUMIDITY G/KG 9.3
TEMPERATURE DEG C 23.3

		3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	370.3	(371.6)
FUEL ECONOMY	MPG	13.06	(13.02)
HYDROCARBONS (THC)	G/MI	.28	(.28)
CARBON MONOXIDE	G/MI	1.43	(1.44)
OXIDES OF NITROGEN	G/MI	.24	(.24)

APPENDIX G

COMPUTER PRINTOUTS OF TASK 2 CHEVROLET CORSICA CATALYST EVALUATION EMISSION TEST RESULTS

Page G-	Test No.	Fuel	Catalyst	Test Cycle
2	B2CHCU-01	M85	Camet	FTP
3	B2CHCU-01	M85	Camet	HFET
4	B2CHCU-01	M85	Camet	NYCC
5	B2CHCU-02	M85	Camet	FTP
6	B2CHCU-02	M85	Camet	HFET
7	B2CHCU-02	M85	Camet	NYCC
8	B2CDCC-01	M85	Degussa	FTP
9	B2CDCC-01	M85	Degussa	HFET
10	B2CDCC-01	M85	Degussa	NYCC
11	B2CDCC-02	M85	Degussa	FTP
12	B2CDCC-02	M85	Degussa	HFET
13	B2CDCC-02	M85	Degussa	NYCC
14	B2CJM4-01	M85	JM	FTP
15	B2CJM4-01	M85	JM	HFET
16	B2CJM4-01	M85	JM	NYCC
17	B2CJM4-02	M85	JM	FTP
18	B2CJM4-02	M85	JM	HFET
19	B2CJM4-02	M85	JM	NYCC
20	B1CHCU-01	Howell EEE	Camet	FTP
21	B1CHCU-01	Howell EEE	Camet	HFET
22	B1CHCU-01	Howell EEE	Camet	NYCC
23	B1CHCU-02	Howell EEE	Camet	FTP
24	B1CHCU-02	Howell EEE	Camet	HFET
25	C1CHCH-02	Howell EEE	Camet	NYCC
26	B1CDCC-01	Howell EEE	Degussa	FTP
27	B1CDCC-01	Howell EEE	Degussa	HFET
28	B1CDCC-01	Howell EEE	Degussa	NYCC
29	B1CDCC-02	Howell EEE	Degussa	FTP
30	B1CDCC-02	Howell EEE	Degussa	HFET
31	B1CDCC-02	Howell EEE	Degussa	NYCC
32	B1CJM4-01	Howell EEE	JM	FTP
33	B1CJM4-01	Howell EEE	JM	HFET
34	B1CJM4-01	Howell EEE	JM	NYCC
35	B1CJM4-02	Howell EEE	JM	FTP
36	B1CJM4-02	Howell EEE	JM	HFET
37	B1CJM4-02	Howell EEE	JM	NYCC

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2CHCU-01 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/ 2/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODDOMETER 2560. KM(1591. MILES)

BAROMETER 743.46 MM HG(29.27 IN HG)
RELATIVE HUMIDITY 27. PCT

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 5.4 GM/KG

NOX HUMIDITY CORRECTION FACTOR .85

TEST RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	762.0 (30.0)	769.6 (30.3)	769.6 (30.3)	769.6 (30.3)
BLOWER INLET P MM. H2O(IN. H2O)	759.5 (29.9)	764.5 (30.1)	764.5 (30.1)	764.5 (30.1)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)	42.8 (109.0)	44.4 (112.0)	43.3 (110.0)
BLOWER REVOLUTIONS	40474.	69440.	40436.	69388.
TOT FLOW STD. CU. METRES(SCF)	75.4 (2661.)	129.6 (4575.)	75.2 (2656.)	129.3 (4567.)
THC SAMPLE METER/RANGE/PPM	29.3/ 2/ 29.	9.2/ 2/ 9.	13.1/ 2/ 13.	10.1/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	8.9/ 2/ 9.	9.1/ 2/ 9.	9.9/ 2/ 10.	10.7/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	72.0/ 13/ 175.	5.1/ 12/ 5.	43.1/ 13/ 100.	3.4/ 12/ 3.
CO BCKGRD METER/RANGE/PPM	2.1/ 13/ 5.	3.5/ 12/ 3.	1.1/ 13/ 3.	2.0/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	95.1/ 14/1.0006	79.9/ 14/ .6571	91.0/ 14/ .8915	80.1/ 14/ .6607
CO2 BCKGRD METER/RANGE/PCT	12.9/ 14/ .0434	12.9/ 14/ .0434	13.4/ 14/ .0454	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	14.8/ 1/ 3.8	8.8/ 1/ 2.3	18.8/ 1/ 4.8	6.4/ 1/ 1.7
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1	.2/ 1/ .1	.3/ 1/ .1	.3/ 1/ .1
DILUTION FACTOR	11.79	18.28	13.33	18.18
THC CONCENTRATION PPM	21.	1.	4.	0.
CO CONCENTRATION PPM	164.	2.	95.	1.
CO2 CONCENTRATION PCT	.9608	.6160	.8495	.6178
NOX CONCENTRATION PPM	3.7	2.2	4.7	1.6
THC MASS GRAMS	1.75	.09	.33	.00
CO MASS GRAMS	14.43	.24	8.28	.21
CO2 MASS GRAMS	1325.7	1461.3	1170.1	1462.9
NOX MASS GRAMS	.45	.47	.58	.34
THC GRAMS/MI	.49	.02	.09	.00
CO GRAMS/MI	4.05	.06	2.32	.05
CO2 GRAMS/MI	372.4	379.4	328.3	384.3
NOX GRAMS/MI	.13	.12	.16	.09
FUEL ECONOMY IN MPG	12.99	12.99	14.85	13.73
RUN TIME	505.	867.	505.	867.
MEASURED DISTANCE MI	3.56	7.41	3.56	7.37
SCF, DRY	.974	.978	.976	.979
DFC, WET (DRY)		.934(.926)		.938(.930)
TOT VOL (SCM) / SAM BLR (SCM)		204.9/ .00		204.6/ .00

COMPOSITE RESULTS

TEST NUMBER B2CHCU-01
BAROMETER MM HG 743.5
HUMIDITY G/KG 5.4
TEMPERATURE DEG C 25.0

	3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI 363.9	(365.3)
FUEL ECONOMY	MPG 13.45	(13.40)
HYDROCARBONS (THC)	G/MI .14	(.13)
CARBON MONOXIDE	G/MI 1.51	(1.51)
OXIDES OF NITROGEN	G/MI .13	(.12)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2CHCU-01 RUN 1
VEHICLE MODEL 39 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

BAROMETER 741.65 MM HG(29.20 IN HG)
RELATIVE HUMIDITY 28. PCT
6 RESULTS
TEST CYCLE

VEHICLE NO. 934
DATE 3/ 2/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
ABS. HUMIDITY 5.8 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODOMETER 2583. KM(1605. MILES)
NOX HUMIDITY CORRECTION FACTOR .86

HFET

BLOWER DIF P MM. H2O(IN. H2O)	772.2 (30.4)
BLOWER INLET P MM. H2O(IN. H2O)	769.6 (30.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)
BLOWER REVOLUTIONS	61233.
TOT FLOW STD. CU. METRES(SCF)	113.5 (4009.)
THC SAMPLE METER/RANGE/PPM	10.2/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	8.8/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	39.7/ 12/ 39.
CO BCKGRD METER/RANGE/PPM	1.2/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	66.9/ 1/1.2311
CO2 BCKGRD METER/RANGE/PCT	2.4/ 1/ .0423
NOX SAMPLE METER/RANGE/PPM	8.0/ 1/ 2.1
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0
DILUTION FACTOR	9.74
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	36.
CO2 CONCENTRATION PCT	1.1931
NOX CONCENTRATION PPM	2.1
THC MASS GRAMS	.29
CO MASS GRAMS	4.80
CO2 MASS GRAMS	2480.2
NOX MASS GRAMS	.38
RUN TIME SECONDS	765.
DFC, WET (DRY)	.897 (.889)
SCF, WET (DRY)	1.000 (.970)
VOL (SCM)	113.5
SAM BLR (SCM)	.00
MI (MEASURED)	10.14

TEST NUMBER,	B2CHCU-01
BAROMETER, MM HG	741.7
HUMIDITY, G/KG	5.8
TEMPERATURE, DEG C	25.6
CARBON DIOXIDE, G/MI	244.7
FUEL ECONOMY, MPG	20.1

HYDROCARBONS, (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.47
OXIDES OF NITROGEN, G/MI	.04

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

NO. B2CHCU-01 RUN 1
CLE MODEL 89 CORSICA
NE 2.8 L(171. CID) V-6
MISSION A3

VEHICLE NO. 934

DATE 3/ 2/90

BAG CART NO. 2

DYNO NO. 3

CVS NO. 2

DRY BULB TEMP. 26.1 DEG C(79.0 DEG F)

ABS. HUMIDITY 5.6 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)

ACTUAL ROAD LOAD 4.4 KW(5.9 HP)

GASOLINE EM-998-F

ODOMETER 2599. KM(1615. MILES)

METER 740.92 MM HG(29.17 IN HG)
TIVE HUMIDITY 26. PCT
RESULTS
EST CYCLE

NOX HUMIDITY CORRECTION FACTOR .86

NYCC

LOWER DIF P MM. H2O(IN. H2O)	759.5 (29.9)
LOWER INLET P MM. H2O(IN. H2O)	756.9 (29.8)
LOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)
LOWER REVOLUTIONS	47867.
OT FLOW STD. CU. METRES(SCF)	88.8 (3136.)
HC SAMPLE METER/RANGE/PPM	9.4/ 2/ 9.
HC BCKGRD METER/RANGE/PPM	8.3/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	13.6/ 12/ 13.
CO BCKGRD METER/RANGE/PPM	.4/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	72.0/ 14/ .5283
CO2 BCKGRD METER/RANGE/PCT	12.0/ 14/ .0399
NOX SAMPLE METER/RANGE/PPM	5.7/ 1/ 1.5
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	22.68
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	12.
CO2 CONCENTRATION PCT	.4902
NOX CONCENTRATION PPM	1.4
THC MASS GRAMS	.14
CO MASS GRAMS	1.29
CO2 MASS GRAMS	797.1
NOX MASS GRAMS	.21
RUN TIME SECONDS	598.
DTC, WET (DRY)	.956 (.948)
SCF, WET (DRY)	1.000 (.983)
VOL (SCM)	88.8
SAM BLR (SCM)	.00
MI (MEASURED)	1.14

TEST NUMBER,	B2CHCU-01
BAROMETER, MM HG	740.9
HUMIDITY, G/KG	5.6
TEMPERATURE, DEG C	26.1
CARBON DIOXIDE, G/MI	698.3
FUEL ECONOMY, MPG	7.0
HYDROCARBONS, (THC) G/MI	.13
CARBON MONOXIDE, G/MI	1.13
OXIDES OF NITROGEN, G/MI	.18

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2CHCU-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.6 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/ 5/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODOMETER 2614. KM(1624. MILES)

BAROMETER 735.85 MM HG(29.01 IN HG)
RELATIVE HUMIDITY 49. PCT

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 10.1 GM/KG

NOX HUMIDITY CORRECTION FACTOR .98

BAG RESULTS

BAG NUMBER DESCRIPTION	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	752.0 (30.0)	759.5 (29.9)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	759.5 (29.9)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)	43.9 (111.0)	45.0 (113.0)	44.4 (112.0)
BLOWER REVOLUTIONS	40465.	69450.	40432.	69418.
TOT FLOW STD. CU. METRES(SCF)	74.6 (2633.)	128.1 (4524.)	74.6 (2633.)	128.0 (4519.)
THC SAMPLE METER/RANGE/PPM	39.9/ 2/ 39.	11.7/ 2/ 12.	13.3/ 2/ 13.	12.0/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	11.4/ 2/ 11.	12.6/ 2/ 12.	11.1/ 2/ 11.	12.5/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	68.7/ 13/ 164.	4.2/ 12/ 4.	62.0/ 12/ 61.	2.4/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	1.5/ 13/ 3.	2.7/ 12/ 3.	1.9/ 12/ 2.	1.7/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	56.7/ 1/1.0400	80.7/ 14/ .6716	91.9/ 14/ .9142	80.7/ 14/ .6716
CO2 BCKGRD METER/RANGE/PCT	2.8/ 1/ .0494	13.5/ 14/ .0458	13.6/ 14/ .0462	13.8/ 14/ .0470
NOX SAMPLE METER/RANGE/PPM	26.2/ 1/ 6.6	6.0/ 1/ 1.6	11.6/ 1/ 3.0	6.8/ 1/ 1.8
NOX BCKGRD METER/RANGE/PPM	1.0/ 1/ .3	.0/ 1/ .3	.6/ 1/ .2	.4/ 1/ .1
DILUTION FACTOR	11.35	17.88	13.06	17.88
THC CONCENTRATION PPM	29.	0.	3.	0.
CO CONCENTRATION PPM	154.	1.	57.	1.
CO2 CONCENTRATION PCT	.9950	.6284	.8716	.6273
NOX CONCENTRATION PPM	6.4	1.6	2.9	1.7
THC MASS GRAMS	2.42	.00	.25	.03
CO MASS GRAMS	13.38	.22	4.97	.11
CO2 MASS GRAMS	1358.6	1474.0	1189.9	1469.8
NOX MASS GRAMS	.89	.33	.40	.40
THC GRAMS/MI	.68	.00	.07	.01
CO GRAMS/MI	3.75	.06	1.39	.03
CO2 GRAMS/MI	381.1	383.9	333.8	381.5
NOX GRAMS/MI	.25	.10	.11	.10
FUEL ECONOMY IN MPG	12.71	12.78	14.67	13.71
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.57	7.41	3.56	7.42
SCF, DRY	.967	.970	.969	.971
DFC, WET (DRY)	.932(.917)		.936(.922)	
TOT VOL (SCM) / SAM BLR (SCM)	202.7/ .00		202.6/ .00	

COMPOSITE RESULTS

TEST NUMBER B2CHCU-02
BAROMETER MM HG 736.9
HUMIDITY G/KG 10.1
TEMPERATURE DEG C 25.0

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	369.6	(368.9)
FUEL ECONOMY MPG	13.27	(13.29)
HYDROCARBONS (THC) G/MI	.16	(.16)
CARBON MONOXIDE G/MI	1.19	(1.18)
OXIDES OF NITROGEN G/MI	.13	(.14)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

ST NO. 82CHCU-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.0 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/ 5/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LEAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODOMETER 2636. KM(1638. MILES)

BAROMETER 735.84 MM HG(28.97 IN HG)
RELATIVE HUMIDITY 47. PCT

DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
ABS. HUMIDITY 9.8 GM/KG

NOX HUMIDITY CORRECTION FACTOR .97

6 RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)
BLOWER REVOLUTIONS	61241.
TOT FLOW STD. CU. METRES(SCF)	112.5 (3972.)
THC SAMPLE METER/RANGE/PPM	12.0/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	11.7/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	19.5/ 12/ 19.
CO BCKGRD METER/RANGE/PPM	1.5/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	68.3/ 1/1.2575
CO2 BCKGRD METER/RANGE/PCT	2.8/ 1/ .0494
NOX SAMPLE METER/RANGE/PPM	10.6/ 1/ 2.7
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	9.55
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	17.
CO2 CONCENTRATION PCT	1.2132
NOX CONCENTRATION PPM	2.6
THC MASS GRAMS	.19
CO MASS GRAMS	2.19
CO2 MASS GRAMS	2498.5
NOX MASS GRAMS	.55
RUN TIME	765.
SECONDS	
DFC, WET (DRY)	.895 (.882)
SCF, WET (DRY)	1.000 (.964)
VOL (SCM)	112.5
SAM BLR (SCM)	.00
MI (MEASURED)	10.14

TEST NUMBER,	82CHCU-02
BAROMETER,	MM HG
	735.8
HUMIDITY,	G/KG
	9.8
TEMPERATURE,	DEG C
	25.6
CARBON DIOXIDE,	G/MI
	246.4
FUEL ECONOMY,	MPG
	20.0

HYDROCARBONS. (THC)	G/MI	.02
CARBON MONOXIDE,	G/MI	.22
OXIDES OF NITROGEN,	G/MI	.05

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NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

T NO. 82CHCU-02 RUN 1
ICLE MODEL 39 CORSDCA
INE 2.8 L(171. CID) V-6
NSMISSION A3

VEHICLE NO.934

DATE 3/ 5/90

BAG CART NO. 2

DYNO NO. 3

CVS NO. 2

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)

ABS. HUMIDITY 10.1 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)

ACTUAL ROAD LOAD 4.4 KW(5.9 HP)

GASOLINE EM-998-F

ODOMETER 2652. KM(1648. MILES)

OMETER 735.58 MM HG(28.96 IN HG)

ATIVE HUMIDITY 49. PCT

RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)
BLOWER INLET P MM. H2O(IN. H2O)
BLOWER INLET TEMP. DEG. C(DEG. F)
BLOWER REVOLUTIONS

749.3 (29.5)

749.3 (29.5)

49.4 (121.0)

47887.

TOT FLOW STD. CU. METRES(SCF)

88.8 (3134.)

THC SAMPLE METER/RANGE/PPM

13.8/ 2/ 14.

THC BCKGRD METER/RANGE/PPM

12.1/ 2/ 12.

CO SAMPLE METER/RANGE/PPM

39.3/ 12/ 39.

CO BCKGRD METER/RANGE/PPM

1.9/ 12/ 2.

CO2 SAMPLE METER/RANGE/PCT

73.1/ 14/ .5448

CO2 BCKGRD METER/RANGE/PCT

13.6/ 14/ .0462

NOX SAMPLE METER/RANGE/PPM

5.1/ 1/ 1.3

NOX BCKGRD METER/RANGE/PPM

.2/ 1/ .1

DILUTION FACTOR

21.89

THC CONCENTRATION PPM

2.

CO CONCENTRATION PPM

36.

CO2 CONCENTRATION PCT

.5007

NOX CONCENTRATION PPM

1.3

THC MASS GRAMS

.22

CO MASS GRAMS

3.69

CO2 MASS GRAMS

813.7

NOX MASS GRAMS

.21

RUN TIME SECONDS

598.

DFT, WET (DRY)

.954 (.939)

SCF, WET (DRY)

1.000 (.975)

VOL (SCM)

88.8

SAM BLR (SCM)

.00

MI (MEASURED)

1.17

TEST NUMBER,

82CHCU-02

BAROMETER,

MM HG

735.6

HUMIDITY,

G/KG

10.1

TEMPERATURE,

DEG C

25.0

CARBON DIOXIDE.

G/MI

696.3

FUEL ECONOMY,

MPG

7.0

HYDROCARBONS, (THC)

G/MI

.19

CARBON MONOXIDE.

G/MI

3.16

OXIDES OF NITROGEN.

G/MI

.18

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2C000-01 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/26/90
BAG CART NO. 2 / CVS NO. 2
DVNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODOMETER 2873. KM(1785. MILES)

BAROMETER 749.55 MM HG(29.51 IN HG)
RELATIVE HUMIDITY 35. PCT
BAG RESULTS

DRY BULB TEMP. 24.4 DEG C(75.9 DEG F)
ABS. HUMIDITY 6.8 GM/KG

NOX HUMIDITY CORRECTION FACTOR .89

BAG NUMBER DESCRIPTION	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	42.2 (108.0)	42.2 (108.0)	42.2 (108.0)
BLOWER REVOLUTIONS	40445.	69414.	40541.	69352.
TOT FLOW STD. CU. METRES(SCF)	75.8 (2676.)	130.2 (4596.)	76.0 (2684.)	130.1 (4592.)
THC SAMPLE METER/RANGE/PPM	49.3/ 2/ 49.	10.0/ 2/ 10.	16.6/ 2/ 16.	10.2/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	11.1/ 2/ 11.	11.4/ 2/ 11.	13.1/ 2/ 13.	10.8/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	71.0/ 13/ 170.	.6/ 12/ 1.	18.7/ 12/ 18.	.5/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.2/ 12/ 0.	.1/ 12/ 0.	.0/ 12/ 0.	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	94.7/ 14/ .9892	79.6/ 14/ .6517	90.9/ 14/ .8390	79.5/ 14/ .6499
CO2 BCKGRD METER/RANGE/PCT	13.5/ 14/ .2458	12.5/ 14/ .2462	13.4/ 14/ .2454	13.5/ 14/ .2462
NOX SAMPLE METER/RANGE/PPM	24.9/ 1/ 6.3	9.4/ 1/ 2.4	14.3/ 1/ 3.7	3.8/ 1/ 1.0
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1	.6/ 1/ .2	.4/ 1/ .1	.1/ 1/ .0
DILUTION FACTOR	11.91	18.44	13.48	18.49
THC CONCENTRATION PPM	39.	0.	7.	0.
CO CONCENTRATION PPM	163.	0.	17.	0.
CO2 CONCENTRATION PCT	.9473	.6080	.8470	.6062
NOX CONCENTRATION PPM	6.2	2.3	3.6	1.0
THC MASS GRAMS	3.26	.00	.61	.00
CO MASS GRAMS	14.42	.07	1.55	.06
CO2 MASS GRAMS	1314.2	1449.1	1179.0	1443.5
NOX MASS GRAMS	.79	.50	.46	.21
THC GRAMS/MI	.92	.00	.17	.00
CO GRAMS/MI	4.04	.02	.43	.01
CO2 GRAMS/MI	368.5	377.5	330.4	376.7
NOX GRAMS/MI	.22	.13	.13	.06
FUEL ECONOMY IN MPG	13.10	13.08	13.06	13.90
RUN TIME SECONDS	505.	368.	507.	367.
MEASURED DISTANCE MI	3.57	7.40	3.57	7.40
SCF, DRY	.972	.976	.974	.976
DFC, WET (DRY)		.935(.924)		.939(.928)
TOT VOL (SCM) / SAM BLR (SCM)		205.9/ .00		205.1/ .00

COMPOSITE RESULTS

TEST NUMBER B2C000-01
BAROMETER MM HG 749.5
HUMIDITY G/KG 6.8
TEMPERATURE DEG C 24.4

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	362.7	(352.4)
FUEL ECONOMY MPG	13.53	(13.53)
HYDROCARBONS (THC) G/MI	.24	(.24)
CARBON MONOXIDE G/MI	.97	(.97)
OXIDES OF NITROGEN G/MI	.15	(.13)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2C0CC-01 RUN 1
VEHICLE MODEL 39 CORSIDA
ENGINE 2.6 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/26/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-998-F
ODOMETER 2897. KM(1800. MILES)

BAROMETER 748.79 MM HG(29.48 IN HG)
RELATIVE HUMIDITY 34. PCT

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 5.4 GM/KG

NOX HUMIDITY CORRECTION FACTOR .38

BAG RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	61234.
TOT FLOW STD. CU. METRES(SCF)	114.6 (4046.)
THC SAMPLE METER/RANGE/PPM	10.2/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	9.1/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	7.4/ 12/ 7.
CO BCKGRD METER/RANGE/PPM	.2/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	67.4/ 1/1.2405
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441
NOX SAMPLE METER/RANGE/PPM	12.0/ 1/ 3.1
NOX BCKGRD METER/RANGE/PPM	.0/ 1/ .0
DILUTION FACTOR	9.69
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	7.
CO2 CONCENTRATION PCT	1.2010
NOX CONCENTRATION PPM	3.1
THC MASS GRAMS	.26
CO MASS GRAMS	.88
CO2 MASS GRAMS	2519.5
NOX MASS GRAMS	.59
RUN TIME SECONDS	766.
DFC, WET (DRY)	.997 (.957)
SCF, WET (DRY)	1.000 (.968)
VOL (SCM)	114.6
SAM BLR (SCM)	.00
MI (MEASURED)	10.15

TEST NUMBER,	B2C0CC-01
BAROMETER, MM HG	748.8
HUMIDITY, G/KG	6.4
TEMPERATURE, DEG C	23.9
CARBON DIOXIDE, G/MI	246.1
FUEL ECONOMY, MPG	19.9

HYDROCARBONS, (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.09
OXIDES OF NITROGEN, G/MI	.36

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
 NVCC - VEHICLE EMISSIONS RESULTS -
 PROJECT 08-2346-001

TEST NO. B2CDDC-01 RUN 1
 VEHICLE MODEL 89 CORSDCA
 ENGINE 2.8 L(171. CID) V-6
 TRANSMISSION A3

VEHICLE NO. 934
 DATE 3/25/90
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
 ABS. HUMIDITY 6.4 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
 ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
 GASOLINE EM-998-F
 ODOMETER 2913. KM(1812. MILES)

BAROMETER 748.79 MM HG(29.48 IN HG)
 RELATIVE HUMIDITY 34. PCT
 BAG RESULTS

NOX HUMIDITY CORRECTION FACTOR .88

TEST CYCLE

NVCC

BLOWER DIP P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	47943.
TOT FLOW STD. CU. METRES(SCF)	59.7 (3168.)
THC SAMPLE METER/RANGE/PPM	10.4/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	9.7/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	16.0/ 12/ 15.
CO BCKGRD METER/RANGE/PPM	.6/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	71.6/ 14/ .5224
CO2 BCKGRD METER/RANGE/PCT	14.1/ 14/ .0482
NOX SAMPLE METER/RANGE/PPM	.0/ 1/ .0
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0
DILUTION FACTOR	22.92
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	15.
CO2 CONCENTRATION PCT	.4763
NOX CONCENTRATION PPM	-.0
THC MASS GRAMS	.11
CO MASS GRAMS	1.52
CO2 MASS GRAMS	782.4
NOX MASS GRAMS	-.00
RUN TIME	600.
SECONDS	
BFC, WET (DRY)	.956 (.946)
SCF, WET (DRY)	1.000 (.990)
VOL (SCM)	89.7
SAM BLR (SCM)	.20
MI (MEASURED)	1.15

TEST NUMBER,	B2CDDC-01
BAROMETER,	MM HG
	748.8
HUMIDITY,	G/KG
	6.4
TEMPERATURE,	DEG C
	23.9
CARBON DIOXIDE,	G/MI
	677.1
FUEL ECONOMY,	MPG
	7.3

HYDROCARBONS, (THC)	G/MI
	.10
CARBON MONOXIDE,	G/MI
	1.31
OXIDES OF NITROGEN,	G/MI
	-.08

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT CG-1146-001

TEST NO. 880000-02 RUN 1
ENGINE MODEL 29 CORSECA
RUE 2.9 L1471. CISE 7-6
NEWMISSION A3

VEHICLE NO. 934
DATE 3/27/90
SAS CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KM (3.3 HP)
GASOLINE EM-950-F
ODOMETER 3315. KM (1811. MILES)

OMETER 742.95 KM H5129.25 IN HG)
STATE HUMIDITY 42. PCT

DRY BULB TEMP. 24.4 DEG C(75.9 DEG F)
REL. HUMIDITY 2.1 GM/KG

NOX HUMIDITY CORRECTION FACTOR .92

RESULTS

SAS NUMBER DESCRIPTION	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H50(10L H20)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H50(10L H20)	900.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(100. F)	42.3 (110.0)	42.3 (109.9)	42.3 (109.9)	42.3 (109.9)
BLOWER REVOLUTIONS	40422.	39372.	40744.	39343.
TOT FLOW STD. CIL METRES(SCF)	74.5 (2545.1)	128.7 (4544.1)	72.3 (2559.1)	128.3 (4542.1)
THO SAMPLE METER/RANGE/PPM	52.7/ 2/ 52.	3.0/ 2/ 3.	13.0/ 2/ 12.	9.3/ 2/ 10.
THO BACKRD METER/RANGE/PPM	9.4/ 2/ 9.	13.2/ 2/ 12.	9.5/ 2/ 9.	10.5/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	79.8/ 12/ 194.	2.1/ 12/ 2.	16.2/ 12/ 15.	2.5/ 12/ 2.
CO BACKRD METER/RANGE/PPM	.4/ 12/ 1.	.4/ 12/ 0.	.4/ 12/ 0.	.5/ 12/ 0.
CO2 SAMPLE METER/RANGE/PPM	94.6/ 14/ .9984	79.6/ 14/ .6517	90.9/ 14/ .9990	79.7/ 14/ .6535
CO2 BACKRD METER/RANGE/PPM	12.1/ 14/ .0442	12.3/ 14/ .0430	12.7/ 14/ .0426	12.0/ 14/ .0438
NOX SAMPLE METER/RANGE/PPM	26.5/ 1/ 3.7	3.4/ 1/ 3.2	3.4/ 1/ 3.	.1/ 1/ 3.
NOX BACKRD METER/RANGE/PPM	.5/ 1/ .1	.2/ 1/ .1	.0/ 1/ 0.	.0/ 1/ 0.
DILUTION FACTOR	11.91	18.43	13.49	13.35
THO CONCENTRATION PPM	44.	3.	4.	3.
CO CONCENTRATION PPM	185.	2.	15.	2.
CO2 CONCENTRATION PCT	.9459	.6119	.3496	.6121
NOX CONCENTRATION PPM	6.5	2.1	.9	.3
THO MASS GRAMS	3.63	.33	.35	.00
CO MASS GRAMS	16.14	.24	1.33	.28
CO2 MASS GRAMS	1297.3	1439.5	1172.5	1441.5
NOX MASS GRAMS	.87	.46	.12	.01
THO GRAMS/MI	1.01	.03	.10	.00
CO GRAMS/MI	4.50	.06	.33	.07
CO2 GRAMS/MI	351.7	374.8	327.1	372.8
NOX GRAMS/MI	.24	.13	.03	.00
FUEL ECONOMY IN MPG	13.31	13.23	13.15	13.24
RUN TIME SECONDS	525.	557.	510.	557.
MEASURED DISTANCE MI	3.59	7.43	3.55	7.46
SEF, DRY	.970	.973	.972	.974
SEF, WET (DRY)	.9351	.9329	.9328	.9325
TOT VOL (SCM) / SAS FLR (SCM)	283.6/ .03		284.2/ .03	

COMPOSITE RESULTS

TEST NUMBER 880000-02
BAROMETER KM HG 743.0
HUMIDITY G/KG 2.1
TEMPERATURE DEG C 24.4

	3-202	(4-202)
CARBON DIOXIDE	G/MI	352.9 (353.4)
FUEL ECONOMY	MPG	13.25 (13.23)
HYDROCARBONS (THO)	G/MI	.24 (.24)
CARBON MONOXIDE	G/MI	1.07 (1.07)
OXIDES OF NITROGEN	G/MI	.12 (.09)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
 HET - VEHICLE EMISSIONS RESULTS -
 PROJECT 33-2346-221

TEST NO. 332800-02 RUN 1
 ENGINE MODEL 55 CUBIC INCH
 ENGINE S/N 14711 C100 V-8
 TRANSMISSION A2

VEHICLE NO. 934
 DATE 3/27/70
 ERS CRAT NO. 1
 DYNO NO. 3
 CVS NO. 1
 DRY BULB TEMP. 23.0 DEG C (77.0 DEG F)
 REL. HUMIDITY 3.6 GM/KG

TEST WEIGHT 1417. KG (3125. LBS)
 ACTUAL ROAD LOAD 4.4 KG (9.8 LB)
 BASELINE EX-400-F
 ODOMETER 2307. KM (1435. MILES)
 NOX HUMIDITY CORRECTION FACTOR .93

BAROMETER 742.13 MM HG (29.22 IN HG)
 RELATIVE HUMIDITY 42. FCT
 AS RECEIVED

TEST CYCLE

HET

FLOWER DIF P MM. H2O (IN. H2O)	300.1 (12.5)
FLOWER DIF P MM. H2O (IN. H2O)	300.1 (12.5)
FLOWER DIF TEMP. DEG. C (DEG. F)	42.3 (109.0)
FLOWER REVOLUTIONS	61154.
OT FLOW STD. OIL METER (DEF)	112.3 (4002.)
CO SAMPLE METER/RANGE/PPM	12.5/ 2/ 12.
CO BACKED METER/RANGE/PPM	10.9/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	17.2/ 12/ 15.
CO BACKED METER/RANGE/PPM	1.2/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	57.7/ 1/1.2452
CO2 BACKED METER/RANGE/PCT	2.7/ 1/ .0476
NOX SAMPLE METER/RANGE/PPM	12.5/ 1/ 3.5
NOX BACKED METER/RANGE/PPM	.0/ 1/ .0
DILUTION FACTOR	9.64
THE CONCENTRATION PPM	3.
CO CONCENTRATION PPM	15.
CO2 CONCENTRATION PCT	1.2235
NOX CONCENTRATION PPM	3.5
THE MASS GRAMS	.35
CO MASS GRAMS	1.55
CO2 MASS GRAMS	2497.3
NOX MASS GRAMS	.71
RUN TIME	765.
CO, NET (DRY)	.596 (.584)
CO, NET (DRY)	1.000 (.965)
CO (WET)	112.3
COX SLR (SCD)	.03
HI MEASURED	10.21

TEST NUMBER,		332800-02
BAROMETER,	MM HG	742.2
REL. HUMIDITY,	GM/KG	3.6
TEMPERATURE,	DEG C	23.0
CARBON DIOXIDE,	G/KI	244.4
REL. CARBON,	%C	21.1

HYDROCARBONS, (WET)	G/KI	.33
CARBON MONOXIDE,	G/KI	.19
OXIDES OF NITROGEN,	G/KI	.07

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYOC - VEHICLE EMISSIONS RESULTS -
PROJECT 28-2346-201

TEST NO. 280000-02 RUN 1
VEHICLE MODEL 99 CORSTON
ENGINE 2.5 LITRE, CID 195
TRANSMISSION A3

VEHICLE NO. 954
DATE 3/27/90
SAG CART NO. 3
DYNO NO. 3
CYS NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KW (5.9 HP)
GASOLINE EM-998-F
ODOMETER 2953. KM (1835. MILES)

BAROMETER 742.19 MM HG(29.22 IN HG)
RELATIVE HUMIDITY 42. PCT

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 3.6 G/M³

NOX HUMIDITY CORRECTION FACTOR .93

RESULTS
TEST CYCLE

NYOC

BLOWER DIP P MM. H ₂ O(IN. H ₂ O)	300.1 (31.5)
BLOWER INLET P MM. H ₂ O(IN. H ₂ O)	300.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.3 (109.0)
BLOWER REVOLUTIONS	43035.
TOT FLOW STD. CU. METRES(SCF)	29.0 (3143.)
THC SAMPLE METER/RANGE/PPM	11.3/ 2/ 12.
THC BACKGRD METER/RANGE/PPM	10.2/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	25.2/ 12/ 22.
CO BACKGRD METER/RANGE/PPM	.6/ 12/ 1.
CO ₂ SAMPLE METER/RANGE/PCT	71.3/ 14/ .5254
CO ₂ BACKGRD METER/RANGE/PCT	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	.0/ 1/ .0
NOX BACKGRD METER/RANGE/PPM	.0/ 1/ .0
DILUTION FACTOR	22.75
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	21.
CO ₂ CONCENTRATION PCT	.4820
NOX CONCENTRATION PPM	.0
THC MASS GRAMS	.14
CO MASS GRAMS	2.22
CO ₂ MASS GRAMS	785.4
NOX MASS GRAMS	.00
RUN TIME SECONDS	621.
DFC, WET (DRY)	.956 (.943)
DCF, WET (DRY)	1.303 (.977)
VOL (SCM)	59.2
SAM BLR (SCM)	.00
MI (MEASURED)	1.15

TEST NUMBER		280000-02
BAROMETER,	MM HG	742.2
HUMIDITY,	G/KG	3.6
TEMPERATURE,	DEG C	25.0
CARBON DIOXIDE,	G/M ³	677.7
FUEL ECONOMY,	MPG	7.2

HYDROCARBONS, (THC)	G/M ³	.12
CARBON MONOXIDE,	G/M ³	1.91
OXIDES OF NITROGEN,	G/M ³	.03

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2CJN4-01 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 5/29/98
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
M85 EM-998-F
ODOMETER 2968. KM(1844. MILES)

BAROMETER 735.33 MM HG(28.95 IN HG)
RELATIVE HUMIDITY 59. PCT

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 11.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.02

BAG RESULTS

BAG NUMBER
DESCRIPTION

1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	764.5 (30.1)	767.1 (30.2)	767.1 (30.2)
BLOWER INLET P MM. H2O(IN. H2O)	764.5 (30.1)	764.5 (30.1)	764.5 (30.1)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)	40.6 (105.0)	41.7 (107.0)
BLOWER REVOLUTIONS	40417.	69401.	40422.
TOT FLOW STD. CUL. METRES(SCF)	74.7 (2636.)	128.4 (4535.)	74.7 (2636.)
THC SAMPLE METER/RANGE/PPM	54.2/ 2/ 54.	12.3/ 2/ 12.	22.8/ 2/ 23.
THC BCKGRD METER/RANGE/PPM	12.5/ 2/ 12.	13.0/ 2/ 13.	10.8/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	81.1/ 12/ 81.	2.2/ 12/ 2.	26.3/ 12/ 26.
CO BCKGRD METER/RANGE/PPM	2.4/ 12/ 2.	1.5/ 12/ 1.	1.1/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	57.7/ 1/1.0587	82.6/ 14/ .7075	92.7/ 14/ .9349
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459	12.8/ 14/ .0430	12.7/ 14/ .0426
NOX SAMPLE METER/RANGE/PPM	27.2/ 1/ 6.9	4.2/ 1/ 1.1	5.1/ 1/ 1.3
NOX BCKGRD METER/RANGE/PPM	.7/ 1/ .2	1.2/ 1/ .3	.4/ 1/ .1
DILUTION FACTOR	11.23	16.98	12.81
THC CONCENTRATION PPM	42.	0.	13.
CO CONCENTRATION PPM	75.	1.	24.
CO2 CONCENTRATION PCT	1.0169	.6670	.8956
NOX CONCENTRATION PPM	6.7	.8	1.2
THC MASS GRAMS	3.52	.01	1.06
CO MASS GRAMS	6.52	.10	2.05
CO2 MASS GRAMS	1389.9	1568.5	1224.2
NOX MASS GRAMS	.98	.20	.18
THC GRAMS/MI	.97	.00	.29
CO GRAMS/MI	1.79	.03	.56
CO2 GRAMS/MI	381.7	401.3	337.8
NOX GRAMS/MI	.27	.05	.05
FUEL ECONOMY IN MPG	12.77	12.52	12.29
RUN TIME SECONDS	505.	868.	505.
MEASURED DISTANCE MI	3.64	7.55	3.91
SCF. DRY	.963	.967	.969
DFT, WET (DRY)		.930(.912)	.935(.917)
TOT VOL (SCM) / SAM BLR (SCM)		203.1/ .00	202.7/ .00

COMPOSITE RESULTS

TEST NUMBER B2CJN4-01
BAROMETER MM HG 735.3
HUMIDITY G/KG 11.3
TEMPERATURE DEG C 23.9

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	379.8	(376.7)
FUEL ECONOMY MPG	12.94	(13.04)
HYDROCARBONS (THC) G/MI	.28	(.29)
CARBON MONOXIDE G/MI	.54	(.55)
OXIDES OF NITROGEN G/MI	.10	(.09)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

ST NO. 32CJMA-01 RUN 1
HICLE MODEL 89 CORSICA
GINE 2.8 L(171. CID) V-6
ANSMISSION A3

ROMETER 734.06 MM HG(28.90 IN HG)
LATIVE HUMIDITY 58. PCT
S RESULTS

TEST CYCLE

VEHICLE NO.934
DATE 5/29/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 10.8 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
M85 EM-998-F
ODOMETER 2992. KM(1859. MILES)
NOX HUMIDITY CORRECTION FACTOR 1.00

	HFET
BLOWER DIF P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	61221.
TOT FLOW STD. CU. METRES(SCF)	112.5 (3971.)
THC SAMPLE METER/RANGE/PPM	12.6/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	11.2/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	20.2/ 12/ 20.
CO BCKGRD METER/RANGE/PPM	3.6/ 12/ 3.
CO2 SAMPLE METER/RANGE/PCT	71.0/ 1/1.3083
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476
NOX SAMPLE METER/RANGE/PPM	4.1/ 1/ 1.1
NOX BCKGRD METER/RANGE/PPM	1.8/ 1/ .5
DILUTION FACTOR	9.18
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	16.
CO2 CONCENTRATION PCT	1.2658
NOX CONCENTRATION PPM	.7
THC MASS GRAMS	.32
CO MASS GRAMS	2.03
CO2 MASS GRAMS	2606.4
NOX MASS GRAMS	.14
RUN TIME SECONDS	766.
DFC, WET (DRY)	.891 (.874)
SCF, WET (DRY)	1.000 (.959)
VOL (SCM)	112.5
SAM BLR (SCM)	.00
MI (MEASURED)	10.21

TEST NUMBER,	32CJMA-01
BAROMETER, MM HG	734.1
HUMIDITY, G/KG	10.8
TEMPERATURE, DEG C	23.3
CARBON DIOXIDE, G/MI	255.3
FUEL ECONOMY, MPG	19.3
HYDROCARBONS, (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.20
OXIDES OF NITROGEN, G/MI	.01

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 NYCC - VEHICLE EMISSIONS RESULTS -
 PROJECT 08-2346-001

TEST NO. B2CJN4-01 RUN 1
 VEHICLE MODEL 69 CORSICA
 ENGINE 2.8 L(171. CID) V-6
 TRANSMISSION A3

VEHICLE NO. 934
 DATE 5/29/90
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
 ABS. HUMIDITY 10.6 G/M³

TEST WEIGHT 1417. KG(3125. LBS)
 ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
 M85 EM-998-F
 ODOMETER 3008. KM(1869. MILES)

BAROMETER 733.81 MM HG(28.89 IN HG)
 RELATIVE HUMIDITY 50. PCT

NOX HUMIDITY CORRECTION FACTOR 1.00

AG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	762.0 (38.0)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (38.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	40.6 (105.0)
BLOWER REVOLUTIONS	47742.
TOT FLOW STD. CUL METRES(SCF)	88.2 (3114.)
THC SAMPLE METER/RANGE/PPM	11.7/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	10.5/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	9.4/ 12/ 9.
CO BCKGRD METER/RANGE/PPM	2.0/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	72.6/ 14/ .5372
CO2 BCKGRD METER/RANGE/PCT	13.0/ 14/ .0438
NOX SAMPLE METER/RANGE/PPM	.8/ 1/ .2
NOX BCKGRD METER/RANGE/PPM	.8/ 1/ .2
DILUTION FACTOR	22.32
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	7.
CO2 CONCENTRATION PCT	.4954
NOX CONCENTRATION PPM	.8
THC MASS GRAMS	.16
CO MASS GRAMS	.71
CO2 MASS GRAMS	799.9
NOX MASS GRAMS	.00
RUN TIME SECONDS	597.
DFC, WET (DRY)	.955 (.940)
SCF, WET (DRY)	1.000 (.975)
VOL (SCM)	88.2
SAM BLR (SCM)	.00
MI (MEASURED)	1.15

TEST NUMBER,	B2CJN4-01
BAROMETER, MM HG	733.8
HUMIDITY, G/KG	10.6
TEMPERATURE, DEG C	25.6
CARBON DIOXIDE, G/MI	696.6
FUEL ECONOMY, MPG	7.1

HYDROCARBONS. (THC) G/MI	.14
CARBON MONOXIDE, G/MI	.62
OXIDES OF NITROGEN, G/MI	.00

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PROJECT 88-2346-001

TEST NO. B2CJ44-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 5/30/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
M85 EM-998-F
ODOMETER 3009. KM(1870. MILES)

BAROMETER 735.58 MM HG(28.96 IN HG)
RELATIVE HUMIDITY 64. PCT
TEST RESULTS

DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
ABS. HUMIDITY 13.6 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.10

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	41.1 (106.0)	42.8 (109.0)	41.1 (106.0)
BLOWER REVOLUTIONS	40315.	69419.	40377.	69349.
TOT FLOW STD. CUL. METRES(SCF)	74.3 (2624.)	128.5 (4536.)	74.5 (2630.)	128.3 (4531.)
THC SAMPLE METER/RANGE/PPM	74.2/ 2/ 73.	15.4/ 2/ 15.	16.4/ 2/ 16.	13.0/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	16.2/ 2/ 16.	16.2/ 2/ 16.	12.7/ 2/ 13.	13.3/ 2/ 13.
CO SAMPLE METER/RANGE/PPM	59.3/ 14/ 271.	2.4/ 12/ 2.	17.0/ 12/ 16.	2.3/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.6/ 14/ 2.	1.5/ 12/ 1.	1.4/ 12/ 1.	1.2/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	95.5/ 14/1.0120	80.5/ 14/ .6680	91.9/ 14/ .9142	80.5/ 14/ .6680
CO2 BCKGRD METER/RANGE/PCT	12.7/ 14/ .0426	12.7/ 14/ .0426	12.9/ 14/ .0434	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	21.3/ 1/ 5.4	3.1/ 1/ .8	8.3/ 1/ 2.2	2.4/ 1/ .6
NOX BCKGRD METER/RANGE/PPM	.8/ 1/ .2	.5/ 1/ .1	.2/ 1/ .1	.3/ 1/ .1
DILUTION FACTOR	11.51	17.97	13.12	17.98
THC CONCENTRATION PPM	59.	0.	5.	0.
CO CONCENTRATION PPM	255.	1.	14.	1.
CO2 CONCENTRATION PCT	.9731	.6277	.8741	.6251
NOX CONCENTRATION PPM	5.2	.7	2.1	.6
THC MASS GRAMS	4.86	.01	.38	.06
CO MASS GRAMS	22.10	.13	1.26	.16
CO2 MASS GRAMS	1323.8	1476.2	1192.0	1468.5
NOX MASS GRAMS	.82	.19	.33	.15
THC GRAMS/MI	1.33	.00	.11	.02
CO GRAMS/MI	6.07	.03	.35	.04
CO2 GRAMS/MI	363.7	378.7	328.4	376.9
NOX GRAMS/MI	.23	.05	.09	.04
FUEL ECONOMY IN MPG	13.13	13.07	14.98	13.93
RUN TIME SECONDS	504.	868.	505.	868.
MEASURED DISTANCE MI	3.64	7.54	3.63	7.53
SCF, DRY	.962	.966	.964	.967
DFC, WET (DRY)		.933(.914)		.937(.917)
TOT VOL (SCM) / SAM BLR (SCM)		202.8/ .00		202.8/ .00

COMPOSITE RESULTS

TEST NUMBER B2CJ44-02
BAROMETER MM HG 735.6
HUMIDITY G/KG 13.6
TEMPERATURE DEG C 25.6

	3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	361.7 (361.2)
FUEL ECONOMY	MPG	13.53 (13.55)
HYDROCARBONS (THC)	G/MI	.31 (.31)
CARBON MONOXIDE	G/MI	1.37 (1.38)
OXIDES OF NITROGEN	G/MI	.10 (.09)

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PROJECT 88-2346-001

TEST NO. B2CJMA-02 RUN 1
VEHICLE MODEL 99 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

BAROMETER 735.33 MM HG(28.95 IN HG)
RELATIVE HUMIDITY 60. PCT
BAG RESULTS

VEHICLE NO. 934
DATE 5/30/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
ABS. HUMIDITY 12.8 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
M85 EM-998-F
ODOMETER 3034. KM(1885. MILES)

NOX HUMIDITY CORRECTION FACTOR 1.07

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	61222
TOT FLOW STD. CU. METRES(SCF)	112.8 (3985.)
THC SAMPLE METER/RANGE/PPM	13.1/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	11.6/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	18.5/ 12/ 18.
CO BCKGRD METER/RANGE/PPM	1.5/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	68.2/ 1/1.2556
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476
NOX SAMPLE METER/RANGE/PPM	5.3/ 1/ 1.4
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	9.56
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	16.
CO2 CONCENTRATION PCT	1.2129
NOX CONCENTRATION PPM	1.3
THC MASS GRAMS	.34
CO MASS GRAMS	2.06
CO2 MASS GRAMS	2585.8
NOX MASS GRAMS	.29
RUN TIME SECONDS	766.
DFC, WET (DRY)	.895 (.878)
SCF, WET (DRY)	1.000 (.959)
VOL (SCM)	112.8
SAM BLR (SCM)	.00
MI (MEASURED)	10.27

TEST NUMBER,	B2CJMA-02
BAROMETER, MM HG	735.3
HUMIDITY, G/KG	12.8
TEMPERATURE, DEG C	25.6
CARBON DIOXIDE, G/MI	244.1
FUEL ECONOMY, MPG	20.2
HYDROCARBONS. (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.20
OXIDES OF NITROGEN, G/MI	.03

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 PROJECT 88-2346-001

EST NO. 82CJMA-02 RUN 1
 VEHICLE MODEL 69 CORSICA
 ENGINE 2.8 L(171. CID) V-6
 TRANSMISSION A3

VEHICLE NO. 934
 DATE 5/30/90
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
 ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
 MBS EM-998-F
 ODOMETER 3850. KM(1895. MILES)

BAROMETER 735.33 MM HG(28.95 IN HG)
 RELATIVE HUMIDITY 60. PCT

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
 ABS. HUMIDITY 12.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.05

AG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(INL. H2O)	762.0 (38.0)
BLOWER INLET P MM. H2O(INL. H2O)	749.3 (29.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	47784.
TOT FLOW STD. CU. METRES(SCF)	88.3 (3119.)
THC SAMPLE METER/RANGE/PPM	12.4/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	10.8/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	9.1/ 12/ 9.
CO BCKGRD METER/RANGE/PPM	1.9/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	71.8/ 14/ .5254
CO2 BCKGRD METER/RANGE/PCT	13.5/ 14/ .0458
NOX SAMPLE METER/RANGE/PPM	1.4/ 1/ .4
NOX BCKGRD METER/RANGE/PPM	.4/ 1/ .1
DILUTION FACTOR	22.82
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	7.
CO2 CONCENTRATION PCT	.4816
NOX CONCENTRATION PPM	.3
THC MASS GRAMS	.28
CO MASS GRAMS	.69
CO2 MASS GRAMS	778.8
NOX MASS GRAMS	.05
RUN TIME SECONDS	597.
DFC, WET (DRY)	.956 (.938)
SCF, WET (DRY)	1.000 (.972)
VOL (SCM)	88.3
SAM BLR (SCM)	.00
MI (MEASURED)	1.16

TEST NUMBER,	82CJMA-02
BAROMETER, MM HG	735.3
HUMIDITY, G/KG	12.3
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	672.2
FUEL ECONOMY, MPG	7.3
HYDROCARBONS, (THC) G/MI	.17
CARBON MONOXIDE, G/MI	.60
OXIDES OF NITROGEN, G/MI	.04

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PROJECT 08-2346-001

ST NO. 81CHCU-01 RUN 1
VEHICLE MODEL 89 CORSICA
SINE 1.3 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/ 6/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE 24-95-F
ODDMETER 2672. KM(1664. MILES)

BAROMETER 735.33 MM HG(28.95 IN HG)
LATITUDE HUMIDITY 59. FCT

DRY BULB TEMP. 24.4 DEG C(75.8 DEG F)
ABS. HUMIDITY 11.8 G/KG

NOX HUMIDITY CORRECTION FACTOR 1.04

6 RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM H2O(IN. H2O)	764.5 (30.1)	762.0 (30.0)	764.5 (30.1)	764.5 (30.1)
BLOWER INLET P MM H2O(IN. H2O)	764.5 (30.1)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	43.3 (110.0)	42.8 (109.0)	42.8 (109.0)
BLOWER REVOLUTIONS	40471.	69426.	40419.	69440.
TOT FLOW STD. CUL. METRES(SCF)	74.6 (2634.)	127.9 (4516.)	74.5 (2632.)	128.0 (4521.)
THC SAMPLE METER/RANGE/PPM	40.1/ 2/ 40.	12.6/ 2/ 12.	14.9/ 2/ 15.	14.2/ 2/ 14.
THC BCKGRD METER/RANGE/PPM	11.6/ 2/ 11.	13.0/ 2/ 13.	12.7/ 2/ 13.	13.2/ 2/ 14.
CO SAMPLE METER/RANGE/PPM	43.7/ 13/ 102.	3.3/ 12/ 3.	13.3/ 12/ 13.	28.4/ 12/ 28.
CO BCKGRD METER/RANGE/PPM	1.0/ 13/ 2.	2.1/ 12/ 2.	2.0/ 12/ 2.	1.7/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	60.2/ 1/1.1855	84.9/ 14/ .7535	95.3/ 14/1.0063	84.8/ 14/ .7514
CO2 BCKGRD METER/RANGE/PCT	2.9/ 1/ .0512	14.3/ 14/ .0490	14.6/ 14/ .0502	14.8/ 14/ .0510
NOX SAMPLE METER/RANGE/PPM	19.0/ 1/ 4.9	6.0/ 1/ 1.6	19.5/ 1/ 5.0	3.2/ 1/ .8
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1	.3/ 1/ .1	.1/ 1/ .0	.0/ 1/ .0
DILUTION FACTOR	11.97	17.75	13.28	17.74
THC CONCENTRATION PPM	29.	0.	3.	1.
CO CONCENTRATION PPM	95.	1.	11.	25.
CO2 CONCENTRATION PCT	1.0585	.7072	.9598	.7032
NOX CONCENTRATION PPM	4.7	1.5	5.0	.8
THC MASS GRAMS	1.25	.02	.13	.09
CO MASS GRAMS	8.29	.18	.92	3.77
CO2 MASS GRAMS	1446.0	1656.1	1309.7	1648.5
NOX MASS GRAMS	.70	.38	.73	.21
THC GRAMS/MI	.35	.01	.04	.02
CO GRAMS/MI	2.31	.05	.25	.97
CO2 GRAMS/MI	402.6	431.6	365.8	426.4
NOX GRAMS/MI	.19	.10	.20	.06
FUEL ECONOMY IN MPG	21.77	21.12	20.54	22.25
RUN TIME SECONDS	505.	868.	505.	868.
MEASURED DISTANCE MI	3.59	7.43	3.59	7.45
SCF, DRY	.971	.973	.972	.974
DFC, WET (DRY)		.934(.916)		.937(.919)
TOT VOL (SCM) / SAM BLR (SCM)		202.5/ .00		322.5/ .00

IMPOSITE RESULTS

TEST NUMBER 81CHCU-01
BAROMETER MM HG 735.3
HUMIDITY G/KG 11.8
TEMPERATURE DEG C 24.4

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	407.5	(406.0)
FUEL ECONOMY MPG	21.70	(21.76)
HYDROCARBONS (THC) G/MI	.09	(.09)
CARBON MONOXIDE G/MI	.57	(.35)
OXIDES OF NITROGEN G/MI	.15	(.13)

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PROJECT 08-2346-001

ST NO. B1CHCU-01 RUN 1
VEHICLE MODEL 39 CORSICA
ENGINE 2.3 L(171. CID) V-6
TRANSMISSION A3

BAROMETER 734.06 MM HG(29.99 IN HG)
RELATIVE HUMIDITY 60. PCT

6 RESULTS
TEST CYCLE

VEHICLE NO. 934
DATE 3/ 6/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 23.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 12.3 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODDOMETER 2782. KM(1679. MILES)
NOX HUMIDITY CORRECTION FACTOR 1.05

HFET

BLOWER DIF P MM. H2O(IN. H2O)	782.3 (30.8)
BLOWER INLET P MM. H2O(IN. H2O)	774.7 (30.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	61258.
TOT FLOW STD. CU. METRES(SCF)	112.5 (3973.)
THC SAMPLE METER/RANGE/PPM	13.5/ 3/ 13.
THC BACKGRD METER/RANGE/PPM	12.6/ 3/ 12.
CO SAMPLE METER/RANGE/PPM	24.7/ 12/ 24.
CO BACKGRD METER/RANGE/PPM	1.5/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	72.8/ 1/1.3423
CO2 BACKGRD METER/RANGE/PCT	2.8/ 1/ .0494
NOX SAMPLE METER/RANGE/PPM	22.2/ 1/ 5.7
NOX BACKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	9.95
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	22.
CO2 CONCENTRATION PCT	1.2978
NOX CONCENTRATION PPM	5.6
THC MASS GRAMS	.14
CO MASS GRAMS	2.84
CO2 MASS GRAMS	2673.2
NOX MASS GRAMS	1.27
RUN TIME	766.
DFC, WET (DRY)	.900 (.882)
SCF, WET (DRY)	1.000 (.968)
VOL (SCM)	112.5
SAM BLR (SCM)	.00
MI (MEASURED)	18.16

TEST NUMBER.	B1CHCU-01
BAROMETER.	MM HG
HUMIDITY.	5/KG
TEMPERATURE.	DEG C
CARBON DIOXIDE.	5/MI
FUEL ECONOMY.	MPG
HYDROCARBONS. (THC)	5/MI
CARBON MONOXIDE.	5/MI
OXIDES OF NITROGEN.	5/MI

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PROJECT 38-2346-001

ST NO. 81CHCU-01 RUN 1
VEHICLE MODEL 39 CORSECA
ENGINE 2.3 L (171. CID) V-6
TRANSMISSION A3

BAROMETER 734.06 MM HG (28.90 IN HG)
RELATIVE HUMIDITY 60. PCT
3 RESULTS

VEHICLE NO. 934
DATE 3/ 6/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C (77.0 DEG F)
ABS. HUMIDITY 12.3 G/KG

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KW (5.9 HP)
GASOLINE EM-995-F
ODDOMETER 2702. KM (1679. MILES)

NOX HUMIDITY CORRECTION FACTOR 1.05

TEST CYCLE

NYCC

BLOWER DIF P MM. H ₂ O (IN. H ₂ O)	759.5 (29.9)
BLOWER INLET P MM. H ₂ O (IN. H ₂ O)	756.9 (29.8)
BLOWER INLET TEMP. DEG. C (DEG. F)	43.3 (110.0)
BLOWER REVOLUTIONS	47939.
TOT FLOW STD. CU. METRES (SCF)	88.2 (3115.)
THC SAMPLE METER/RANGE/PPM	50.6/ 2/ 50.
THC BCKGRD METER/RANGE/PPM	30.5/ 2/ 30.
CO SAMPLE METER/RANGE/PPM	91.0/ 13/ 224.
CO BCKGRD METER/RANGE/PPM	.5/ 13/ 1.
CO ₂ SAMPLE METER/RANGE/PCT	74.8/ 14/ .5711
CO ₂ BCKGRD METER/RANGE/PCT	13.2/ 14/ .0446
NOX SAMPLE METER/RANGE/PPM	4.2/ 1/ 1.1
NOX BCKGRD METER/RANGE/PPM	.0/ 1/ .0
DILUTION FACTOR	22.42
THC CONCENTRATION PPM	21.
CO CONCENTRATION PPM	216.
CO ₂ CONCENTRATION PCT	.5285
NOX CONCENTRATION PPM	1.1
THC MASS GRAMS	1.09
CO MASS GRAMS	22.18
CO ₂ MASS GRAMS	853.4
NOX MASS GRAMS	.20
RUN TIME SECONDS	599.
DFC, WET (DRY)	.955 (.937)
SCF, WET (DRY)	1.000 (.975)
VOL (SCM)	98.2
SPM BLR (SCM)	.00
MI (MEASURED)	1.15

TEST NUMBER,	81CHCU-01
BAROMETER, MM HG	734.1
HUMIDITY, G/KG	12.3
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	740.5
FUEL ECONOMY, MPG	11.5
HYDROCARBONS, (THC) G/MI	.94
CARBON MONOXIDE, G/MI	13.24
OXIDES OF NITROGEN, G/MI	.17

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 06-2346-001

TEST NO. 81CH01-02 RUN 1
VEHICLE MODEL 59 CORVICA
ENGINE 2.8 L (171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 554
DATE 3/ 7/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KW (5.9 HP)
GASOLINE EM-995-F
ODMETER 3720. KM (1990. MILES)

BAROMETER 733.33 MM HG (29.07 IN HG)
RELATIVE HUMIDITY 60. PCT

DRY BULB TEMP. 25.0 DEG C (77.0 DEG F)
ABS. HUMIDITY 12.2 G/MG

NOX HUMIDITY CORRECTION FACTOR 1.35

RESULTS

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O (IN. H2O)	767.1 (30.2)	767.1 (30.2)	767.1 (30.2)	769.6 (30.3)
BLOWER INLET P MM. H2O (IN. H2O)	764.5 (30.1)	764.5 (30.1)	764.5 (30.1)	764.5 (30.1)
BLOWER INLET TEMP. DEG. C (DEG. F)	43.3 (110.0)	43.3 (110.0)	42.8 (109.0)	42.8 (109.0)
BLOWER REVOLUTIONS	40442.	69438.	40416.	69351.
TOT FLOW STD. CUL. METRES (SCF)	74.8 (2642.)	128.5 (4538.)	74.8 (2643.)	128.4 (4534.)
THC SAMPLE METER/RANGE/PPM	51.0/ 3/ 52.	12.9/ 3/ 13.	16.9/ 3/ 17.	15.4/ 3/ 15.
THC BACKGRD METER/RANGE/PPM	11.5/ 3/ 11.	12.6/ 3/ 12.	12.9/ 3/ 13.	14.1/ 3/ 14.
CO SAMPLE METER/RANGE/PPM	60.1/ 13/ 142.	6.1/ 12/ 6.	24.3/ 12/ 24.	52.0/ 12/ 51.
CO BACKGRD METER/RANGE/PPM	.5/ 13/ 1.	1.0/ 12/ 1.	.8/ 12/ 1.	1.0/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	59.9/ 1/1.0999	84.9/ 14/ .7535	95.1/ 14/1.0006	84.5/ 14/ .7452
CO2 BACKGRD METER/RANGE/PCT	2.9/ 1/ .0512	14.6/ 14/ .0502	14.8/ 14/ .0510	15.0/ 14/ .0519
NOX SAMPLE METER/RANGE/PPM	20.5/ 1/ 5.2	4.5/ 1/ 1.2	16.5/ 1/ 4.3	2.3/ 1/ .6
NOX BACKGRD METER/RANGE/PPM	.4/ 1/ .1	.4/ 1/ .1	1.0/ 1/ .3	.9/ 1/ .2
DILUTION FACTOR	11.98	17.74	12.34	17.83
THC CONCENTRATION PPM	42.	1.	5.	2.
CO CONCENTRATION PPM	135.	5.	22.	49.
CO2 CONCENTRATION PCT	1.0520	.7061	.9533	.6963
NOX CONCENTRATION PPM	5.1	1.1	4.1	.4
THC MASS GRAMS	1.81	.07	.21	.15
CO MASS GRAMS	11.80	.71	1.92	7.27
CO2 MASS GRAMS	1442.3	1660.5	1306.2	1636.9
NOX MASS GRAMS	.77	.28	.61	.10
THC GRAMS/MI	.50	.02	.06	.34
CO GRAMS/MI	3.28	.18	.53	1.83
CO2 GRAMS/MI	401.1	429.7	362.7	423.4
NOX GRAMS/MI	.21	.07	.17	.03
FUEL ECONOMY IN MPG	21.74	21.15	24.35	22.33
RUN TIME SECONDS	505.	868.	505.	867.
MEASURED DISTANCE MI	3.60	7.46	3.60	7.47
SCF. DRY	.971	.973	.971	.973
ISC. WET (GRY)		.934(.916)		.937(.919)
TOT VOL (SCM) / SAM BLR (SCM)		203.3/ .00		203.2/ .00

COMPOSITE RESULTS

TEST NUMBER 81CH01-02
BAROMETER MM HG 733.4
HUMIDITY %/KG 12.2
TEMPERATURE DEG C 25.0

CARBON DIOXIDE	G/MI	405.3	(403.5)
FUEL ECONOMY	MPG	21.78	(21.83)
HYDROCARBONS (THC)	G/MI	.13	(.14)
CARBON MONOXIDE	G/MI	.32	(1.42)
OXIDES OF NITROGEN	G/MI	.13	(.11)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH

HFET - VEHICLE EMISSIONS RESULTS -

PROJECT 08-2346-001

ST NO. B1CHCU-02 RUN 1
 VEHICLE MODEL 89 CORSICA
 GINE 2.0 L1171. C120 V-6
 TRANSMISSION A3

VEHICLE NO. 934

DATE 2/ 7/90

RAG CART NO. 2

DYNO NO. 3

CVS NO. 2

DRY BULB TEMP. 24.4 DEG C (76.0 DEG F)

ABS. HUMIDITY 11.7 G/KG

TEST WEIGHT 1417. KG (3125. LBS)

ACTUAL ROAD LOAD 4.4 KW(5.9 HP)

GASOLINE EM-995-F

ODOMETER 2742 KM(1704. MILES)

BAROMETER 737.37 MM HG(29.05 IN HG)

RELATIVE HUMIDITY 59. PCT

16 RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM H2O(INL H2O)
 BLOWER INLET P MM H2O(INL H2O)
 BLOWER INLET TEMP. DEG. C(DEG. F)
 BLOWER REVOLUTIONS

782.3 (38.8)

779.8 (38.7)

42.8 (109.0)

61217.

TOT FLOW STD. CUL METRES(SCF)

113.0 (3991.1)

THC SAMPLE METER/RANGE/PPM

16.3/ 2/ 16.

THC BACKGRD METER/RANGE/PPM

14.0/ 2/ 14.

CO SAMPLE METER/RANGE/PPM

28.0/ 12/ 27.

CO BACKGRD METER/RANGE/PPM

1.0/ 12/ 1.

CO2 SAMPLE METER/RANGE/PCT

73.1/ 1/1.3479

CO2 BACKGRD METER/RANGE/PCT

2.9/ 1/ .0512

NOX SAMPLE METER/RANGE/PPM

25.2/ 1/ 6.4

NOX BACKGRD METER/RANGE/PPM

.9/ 1/ .2

DILUTION FACTOR

9.91

THC CONCENTRATION PPM

4.

CO CONCENTRATION PPM

25.

CO2 CONCENTRATION PCT

1.3019

NOX CONCENTRATION PPM

6.2

THC MASS GRAMS

.24

CO MASS GRAMS

3.32

CO2 MASS GRAMS

2693.9

NOX MASS GRAMS

1.33

RUN TIME SECONDS

765.

DPC, WET (DRY)

.999 (.882)

SCF, WET (DRY)

1.000 (.958)

VOL (SCM)

113.0

SAM BLR (SCM)

.00

MI (MEASURED)

10.24

TEST NUMBER.

B1CHCU-02

BAROMETER, MM HG

737.9

HUMIDITY, G/KG

11.7

TEMPERATURE, DEG C

24.4

CARBON DIOXIDE, G/MI

253.1

FUEL ECONOMY, MPG

33.5

HYDROCARBONS, (THC) G/MI

.32

CARBON MONOXIDE, G/MI

.32

OXIDES OF NITROGEN, G/MI

.13

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2546-201

ET NO. BICOU-02 RUN 1
VEHICLE MODEL 89 CORSECA
ENGINE 2.0 L1171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/ 7/90
SAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 11.5 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-495-F
ODOMETER 2537. KM(1614. MILES)

BAROMETER 737.52 MM HG(29.94 IN HG)
RELATIVE HUMIDITY 56. PCT
46 RESULTS

NOX HUMIDITY CORRECTION FACTOR 1.03

TEST CYCLE

NYCC

BLOWER DIS P MM. H2O(INL H2O)	762.0 (30.0)
BLOWER INLET P MM. H2O(INL H2O)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	47928.
TOT FLOW STD. CU. METRES(SCF)	38.7 (3131.)
THC SAMPLE METER/RANGE/PPM	61.9/ 2/ 61.
THC BACKGRD METER/RANGE/PPM	47.6/ 2/ 47.
CO SAMPLE METER/RANGE/PPM	59.7/ 13/ 141.
CO BACKGRD METER/RANGE/PPM	.3/ 13/ 1.
CO2 SAMPLE METER/RANGE/PCT	76.0/ 14/ .5903
CO2 BACKGRD METER/RANGE/PCT	14.6/ 14/ .0502
NOX SAMPLE METER/RANGE/PPM	5.1/ 1/ 1.3
NOX BACKGRD METER/RANGE/PPM	1.0/ 1/ .3
DILUTION FACTOR	21.96
THC CONCENTRATION PPM	16.
CO CONCENTRATION PPM	136.
CO2 CONCENTRATION PCT	.5424
NOX CONCENTRATION PPM	1.1
THC MASS GRAMS	.93
CO MASS GRAMS	14.03
CO2 MASS GRAMS	880.6
NOX MASS GRAMS	.19
ELN TIME	599.
DFC, WET (DRY)	.954 (.937)
SCF, WET (DRY)	1.000 (.976)
VOL (SCM)	88.7
SAM BLR (SCM)	.08
MI (MEASURED)	1.17

TEST NUMBER,		BICOU-02
BAROMETER,	MM HG	737.5
HUMIDITY,	G/KG	11.5
TEMPERATURE,	DEG C	25.0
CARBON DIOXIDE,	G/M	750.1
FUEL ECONOMY,	MPG	11.5
HYDROCARBONS, (THC)	G/M	.71
CARBON MONOXIDE,	G/M	12.20
OXIDES OF NITROGEN,	G/M	.16

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

ST NO. 810000-01 RUN 1
VEHICLE MODEL 89 CORSECA
SINE 2.0 (171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/22/90
SAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KM (5.3 HP)
GASOLINE 89-995-F
ODMETER 8773. KM (1723. MILES)

BAROMETER 741.43 MM HG (29.19 IN HG)
RELATIVE HUMIDITY 49. PCT

DRY BULB TEMP. 25.0 DEG C (77.0 DEG F)
ABS. HUMIDITY 12.0 GM/KG

NOX HUMIDITY CORRECTION FACTOR .98

3 RESULTS

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM H2O (IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET P MM H2O (IN. H2O)	736.6 (29.0)	736.6 (29.0)	736.6 (29.0)	736.6 (29.0)
BLOWER INLET TEMP. DEG. C (DEG. F)	43.3 (110.0)	43.3 (110.0)	43.3 (110.0)	43.3 (110.0)
BLOWER REVOLUTIONS	40447.	69318.	40425.	69312.
TOT FLOW STD. CUL METRES (SCF)	75.4 (2663.)	129.2 (4563.)	75.4 (2661.)	129.2 (4563.)
THE SAMPLE METER/RANGE/PPM	62.6/ 2/ 62.	9.7/ 2/ 10.	9.4/ 2/ 9.	9.1/ 2/ 9.
THE BACKGRD METER/RANGE/PPM	7.8/ 2/ 8.	8.8/ 2/ 9.	7.1/ 2/ 7.	8.0/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	66.0/ 13/ 157.	1.9/ 12/ 2.	5.6/ 12/ 5.	16.7/ 12/ 16.
CO BACKGRD METER/RANGE/PPM	.1/ 13/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.2/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	59.1/ 1/1.0849	84.6/ 14/ .7473	94.9/ 14/ .9949	84.4/ 14/ .7432
CO2 BACKGRD METER/RANGE/PCT	2.5/ 1/ .0441	12.6/ 14/ .0422	11.9/ 14/ .0395	12.0/ 14/ .0399
NOX SAMPLE METER/RANGE/PPM	18.4/ 1/ 4.7	16.1/ 1/ 4.1	29.2/ 1/ 7.4	.6/ 1/ .2
NOX BACKGRD METER/RANGE/PPM	.1/ 1/ .0	.1/ 1/ .0	.3/ 1/ .1	.3/ 1/ .1
DILUTION FACTOR	12.11	17.90	13.45	17.97
THE CONCENTRATION PPM	55.	1.	3.	2.
CO CONCENTRATION PPM	151.	2.	5.	15.
CO2 CONCENTRATION PCT	1.0444	.7074	.9583	.7055
NOX CONCENTRATION PPM	4.7	4.1	7.3	.1
THE MASS GRAMS	2.39	.10	.12	.11
CO MASS GRAMS	13.29	.25	.45	2.33
CO2 MASS GRAMS	1442.0	1673.5	1322.3	1669.1
NOX MASS GRAMS	.66	.99	1.03	.32
THE GRAMS/MI	.67	.03	.03	.03
CO GRAMS/MI	3.71	.07	.13	.51
CO2 GRAMS/MI	482.1	434.2	369.4	433.3
NOX GRAMS/MI	.18	.26	.29	.01
FUEL ECONOMY IN MPG	21.63	20.95	23.59	21.93
RUN TIME SECONDS	506.	567.	506.	567.
MEASURED DISTANCE MI	3.59	7.44	3.59	7.43
SCF, DRY	.974	.976	.975	.977
DFL, WET (DRY)		.934 (.919)		.937 (.923)
TOT VOL (SCM) / SAM BLR (SCM)		304.6/ .00		304.6/ .00

OPPOSITE RESULTS

TEST NUMBER 810000-01
BAROMETER MM HG 741.4
HUMIDITY G/KG 10.0
TEMPERATURE DEG C 25.0

	3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI 489.7	(409.6)
FUEL ECONOMY	MPG 21.55	(21.54)
HYDROCARBONS (THC)	G/MI .16	(.16)
CARBON MONOXIDE	G/MI .34	(1.00)
OXIDES OF NITROGEN	G/MI .25	(.18)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 810000-01 RUN 1
VEHICLE MODEL 89 CORVETTE
ENGINE 2.8 LITRE. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 3/22/90
SAG CART NO. 1
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.6 DEG C (78.0 DEG F)
ABS. HUMIDITY 10.5 GM/KG

TEST WEIGHT 1417. KGS (3125. LBS)
ACTUAL ROAD LOAD 4.4 KVA (5.9 HP)
GASOLINE EM-992-F
ODOMETER 2797. KM (1738. MILES)

BAROMETER 740.65 MM HG (29.16 IN HG)
RELATIVE HUMIDITY 50. PCT

NOX HUMIDITY CORRECTION FACTOR .99

3 RESULTS
TEST CYCLE

HFET

BLOWER DIF P MM H2O (IN. H2O)	762.0 (30.0)
BLOWER INLET P MM H2O (IN. H2O)	736.6 (29.0)
BLOWER INLET TEMP. DEG. C (DEG. F)	43.3 (110.0)
BLOWER REVOLUTIONS	61190.
TOT FLOW STD. CU. METRES (SCF)	113.9 (4023.1)
THC SAMPLE METER/RANGE/PPM	10.0/ 2/ 10.
THC BACKGRD METER/RANGE/PPM	7.1/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	8.3/ 12/ 9.
CO BACKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	73.4/ 1/1.2535
CO2 BACKGRD METER/RANGE/PCT	2.3/ 1/ .0406
NOX SAMPLE METER/RANGE/PPM	47.0/ 1/ 11.8
NOX BACKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	9.89
THC CONCENTRATION PPM	4.
CO CONCENTRATION PPM	8.
CO2 CONCENTRATION PCT	1.3171
NOX CONCENTRATION PPM	11.7
THC MASS GRAMS	.24
CO MASS GRAMS	1.01
CO2 MASS GRAMS	2747.4
NOX MASS GRAMS	2.33
RUN TIME SECONDS	755.
DIF, WET (DRY)	.899 (.894)
SCF, WET (DRY)	1.000 (.971)
VOL (SCM)	113.9
SAM BLR (SCM)	.30
MI (MEASURED)	18.09

TEST NUMBER	810000-01
BAROMETER	MM HG 740.7
HUMIDITY	GM/KG 10.5
TEMPERATURE	DEG C 25.6
CARBON DIOXIDE	GM/KG 272.4
FUEL ECONOMY	MPG 22.5
HYDROCARBONS (THC)	GM/KG .02
CARBON MONOXIDE	GM/KG .10
OXIDES OF NITROGEN	GM/KG .25

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 18-2346-221

ST NO. 810000-31 RUN 1
VEHICLE MODEL 69 CORVICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION AS

VEHICLE NO. 934
DATE 3/22/90
SAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.6 DEG C(78.0 DEG F)
HSS. HUMIDITY 10.5 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 2303. KM(1742. MILES)
NOX HUMIDITY CORRECTION FACTOR .59

BAROMETER 740.66 MM HG(29.16 IN HG)
RELATIVE HUMIDITY 53. PCT
3 RESULTS

NYCC

BLOWER DIF P MM. H ₂ O(IN. H ₂ O)	762.3 (32.0)
BLOWER INLET P MM. H ₂ O(IN. H ₂ O)	736.6 (29.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.5 (109.0)
BLOWER REVOLUTIONS	47815.
TOT FLOW STD. CIL METRES(SCF)	29.1 (3147.)
THO SAMPLE METER/RANGE/PPM	34.1/ 2/ 34.
THO BACKGRD METER/RANGE/PPM	24.7/ 2/ 24.
CO SAMPLE METER/RANGE/PPM	45.3/ 12/ 45.
CO BACKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO ₂ SAMPLE METER/RANGE/PCT	73.3/ 14/ .0055
CO ₂ BACKGRD METER/RANGE/PCT	11.2/ 14/ .0391
HC SAMPLE METER/RANGE/PPM	.7/ 1/ .2
NOX BACKGRD METER/RANGE/PPM	.6/ 1/ .2
DILUTION FACTOR	23.79
THC CONCENTRATION PPM	10.
CO CONCENTRATION PPM	43.
CO ₂ CONCENTRATION PCT	.5180
NOX CONCENTRATION PPM	.0
THC MASS GRAMS	.52
CO MASS GRAMS	4.50
CO ₂ MASS GRAMS	545.2
HCX MASS GRAMS	.31
RUN TIME SECONDS	599.
DFL, NET (DRY)	.958 (.943)
SCF, NET (DRY)	1.000 (.979)
VOL (SCM)	89.1
SAM BLR (SCM)	.00
MI (MEASURED)	1.15

TEST NUMBER.	810000-31
BAROMETER.	MM HG
740.7	
HUMIDITY.	G/KG
10.5	
TEMPERATURE.	DEG C
25.6	
CAPACITY EFFICIENCY.	G/MI
737.2	
FUEL ECONOMY.	MPG
11.9	
HYDROCARBONS. (THC)	G/MI
.45	
CARBON MONOXIDE.	G/MI
3.92	
OXIDES OF NITROGEN.	G/MI
.23	

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

IT NO. 810000-02 RUN 1
VEHICLE MODEL 89 CORSEDA
SINE 21.3 (1074.0) 1-6
WISMISSION AS

VEHICLE NO. 834
DATE 3/22/90
SAS CART NO. 2 / CVS NO. 2
DRVD NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KW (5.9 HP)
GASOLINE EX-695-F
ODOMETER 1113. KM (692. MILES)

BAROMETER 743.45 IN HG (29.97 IN HG)
RELATIVE HUMIDITY 46. PCT

DRY BULB TEMP. 25.6 DEG C (78.0 DEG F)
ABS. HUMIDITY 9.7 GM/KG

NOX HUMIDITY CORRECTION FACTOR .97

3 RESULTS

SAS NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM H2O(INL H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM H2O(INL H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DES. F)	44.4 (112.0)	43.3 (110.0)	43.3 (110.0)	43.3 (110.0)
BLOWER REVOLUTIONS	48395.	59256.	48384.	59252.
TOT FLOW STD. CM METRES(SCF)	74.8 (2640.)	128.5 (4535.)	74.9 (2644.)	128.4 (4535.)
THC SAMPLE METER/RANGE/PPM	51.6/ 2/ 51.	9.6/ 2/ 9.	14.2/ 2/ 14.	9.6/ 2/ 9.
THC BACKRD METER/RANGE/PPM	5.7/ 2/ 9.	9.5/ 2/ 9.	3.6/ 2/ 9.	9.5/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	74.1/ 13/ 179.	.5/ 12/ 0.	5.5/ 12/ 5.	4.2/ 12/ 4.
CO BACKRD METER/RANGE/PPM	.1/ 13/ 0.	.5/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	53.3/ 1/1.0699	83.2/ 14/ .7331	92.1/ 14/ .9455	83.4/ 14/ .7231
CO2 BACKRD METER/RANGE/PCT	12.4/ 1/ .0423	12.2/ 14/ .0407	11.8/ 14/ .0391	12.3/ 14/ .0411
NOX SAMPLE METER/RANGE/PPM	20.7/ 1/ 5.3	11.9/ 1/ 3.1	10.8/ 1/ 2.8	1.7/ 1/ .4
NOX BACKRD METER/RANGE/PPM	.2/ 1/ .1	.0/ 1/ .0	.1/ 1/ .0	.1/ 1/ .0
DILUTION FACTOR	12.35	18.25	14.14	18.50
THC CONCENTRATION PPM	53.	1.	6.	1.
CO CONCENTRATION PPM	172.	0.	5.	4.
CO2 CONCENTRATION PCT	1.0311	.5946	.9091	.6843
NOX CONCENTRATION PPM	5.2	3.1	2.8	.4
THC MASS GRAMS	2.29	.04	.25	.04
CO MASS GRAMS	14.97	.00	.02	.02
CO2 MASS GRAMS	1411.6	1634.4	1246.6	1609.0
NOX MASS GRAMS	.72	.73	.05	.12
THC GRAMS/MI	.54	.01	.07	.01
CO GRAMS/MI	4.19	.00	.15	.15
CO2 GRAMS/MI	395.2	425.2	349.7	418.7
NOX GRAMS/MI	.20	.19	.11	.03
FUEL ECONOMY IN MPG	21.55	21.35	25.32	22.55
RUN TIME SECONDS	535.	867.	535.	867.
MEASURED DISTANCE MI	3.57	7.41	3.53	7.41
SEC. DRY	.975	.977	.975	.978
SEC. WET (STD)		.935(.921)		.940(.925)
TOT VOL (STD) / GRM CLR (STD)		203.3/ .00		203.3/ .00

DIPOSITE RESULTS

TEST NUMBER 810000-02
BAROMETER IN HG 743.5
HUMIDITY G/KG 9.7
TEMPERATURE DEG C 25.6

CARBON DIOXIDE	G/KG	293.2	(395.6)
FUEL ECONOMY	MPG	22.13	(22.55)
HYDROCARBONS (THC)	G/KG	.15	(.15)
CARBON MONOXIDE	G/KG	.31	(.33)
OXIDES OF NITROGEN	G/KG	.17	(.12)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 83-2246-001

TEST NO. 210000-02 RUN 1
MILE METER 39 CORRECTOR
ENGINE 2.8 L/171. CCM 7-5
TRANSMISSION AS

VEHICLE NO. 934
DATE 3/23/90
SAS CART NO. 1
CVMS NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KW (5.9 HP)
SASOLINE EM-950-F
TODOMETER 1842. KM (1755. MILES)

BAROMETER 742.44 MM HG(29.23 IN HG)
RELATIVE HUMIDITY 48. PCT
46 RESULTS

DRY BULB TEMP. 24.4 DEG C(75.9 DEG F)
ABS. HUMIDITY 9.5 G/KG

NOX HUMIDITY CORRECTION FACTOR .95

TEST CYCLE

HFET

BLOWER OFF P. VAL. H2O (IN. H2O)
BLOWER INLET P. VAL. H2O (IN. H2O)
BLOWER INLET TEMP. DEG. C (DEG. F)
BLOWER REVOLUTIONS

500.1 (31.5)
500.1 (31.5)
43.9 (111.2)
51132.

TEST FLOW STD. OIL METER (SCF)

112.1 (3993.0)

THE SAMPLE METER/RANGE/PPM

11.3/ 2/ 11.

THE BACKRD METER/RANGE/PPM

9.3/ 2/ 9.

CO SAMPLE METER/RANGE/PPM

2.3/ 12/ 2.

CO BACKRD METER/RANGE/PPM

.4/ 12/ 0.

CO2 SAMPLE METER/RANGE/PCT

72.8/ 1/1.3512

CO2 BACKRD METER/RANGE/PCT

2.7/ 1/ .0476

NOX SAMPLE METER/RANGE/PPM

42.9/ 1/ 10.8

NOX BACKRD METER/RANGE/PPM

.3/ 1/ .1

DILUTION FACTOR

9.33

THE CONCENTRATION PPM

3.

CO CONCENTRATION PPM

2.

CO2 CONCENTRATION PCT

1.3184

NOX CONCENTRATION PPM

10.7

THE MASS GRAMS

.20

CO MASS GRAMS

.23

CO2 MASS GRAMS

2729.4

NOX MASS GRAMS

2.22

RUN TIME SECONDS

766.

WFO, WET (DRY)

.933 (.554)

WFO, WET (DRY)

1.000 (.972)

WOL (SCM)

112.1

WOL BLR (SCM)

.20

WOL (MEASURED)

10.16

TEST NUMBER,

210000-02

BAROMETER,

MM HG

742.4

HUMIDITY,

G/KG

9.5

TEMPERATURE,

DEG C

24.4

CARBON DIOXIDE,

G/KG

222.5

FUEL ECONOMY,

MPG

32.0

HYDROCARBONS, (WFO)

G/KG

.32

CARBON MONOXIDE,

G/KG

.32

OXIDES OF NITROGEN,

G/KG

.22

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
 NVOC - VEHICLE EMISSIONS RESULTS -
 PROJECT 08-2246-401

TEST NO. 810001-02 RUN 1
 ENGINE MODEL 33 CORSTON
 ENGINE S/N 1171. CID 174
 TRANSMISSION A3

VEHICLE NO. 934
 DATE 3/23/92
 ENG CART NO. 2
 DYNO NO. 3
 CVS NO. 2

TEST WEIGHT 1417. KSI 3125. LBS
 ACTUAL ROAD LOAD 4.4 MW (3.3 HP)
 GASOLINE EA-983-F
 ODOMETER 1991 KM (1776. MILES)

BAROMETER 742.44 MM HG (29.23 IN HG)
 ELEVATION 48. FT
 WGS RESULTS

DRY BULB TEMP. 24.4 DEG C (76.0 DEG F)
 ABS. HUMIDITY 9.3 G/KG

NOX HUMIDITY CORRECTION FACTOR .95

TEST CYCLE

NVOC

BLOWER DIS P MM H2O (IN. H2O) 500.1 (31.5)
 BLOWER INLET P MM H2O (IN. H2O) 500.1 (31.5)
 BLOWER INLET TEMP. DEG. CELSIUS 43.9 (111.0)
 BLOWER REVOLUTIONS 47615
 TOT FLOW STD. OIL METER (GPM) 89.4 (3123.1)
 T10 SAMPLE METER/RANGE/PPM 29.5/ 2/ 29.
 T10 BACKED METER/RANGE/PPM 19.6/ 2/ 19.
 CO SAMPLE METER/RANGE/PPM 44.3/ 12/ 44.
 CO BACKED METER/RANGE/PPM .5/ 12/ 0.
 CO2 SAMPLE METER/RANGE/PCT 75.5/ 14/ .5322
 CO2 BACKED METER/RANGE/PCT 13.0/ 14/ .0438
 NOX SAMPLE METER/RANGE/PPM 1.4/ 1/ .4
 NOX BACKED METER/RANGE/PPM .5/ 1/ .1

500.1 (31.5)
 500.1 (31.5)
 43.9 (111.0)
 47615
 89.4 (3123.1)
 29.5/ 2/ 29.
 19.6/ 2/ 19.
 44.3/ 12/ 44.
 .5/ 12/ 0.
 75.5/ 14/ .5322
 13.0/ 14/ .0438
 1.4/ 1/ .4
 .5/ 1/ .1

DILUTION FACTOR 22.74
 THC CONCENTRATION PPM 11.
 CO CONCENTRATION PPM 42.
 CO2 CONCENTRATION PCT .5404
 NOX CONCENTRATION PPM .2
 THC MASS GRAMS .54
 CO MASS GRAMS 4.32
 CO2 MASS GRAMS 875.3
 NOX MASS GRAMS .04

22.74
 11.
 42.
 .5404
 .2
 .54
 4.32
 875.3
 .04

RUN TIME 599. SETTINGS

REF, NET (GPM) .955 (.941)
 REF, NET (GPM) 1.020 (.973)
 TOL (SEC) 88.4
 GPM BLR (SEC) .00
 XI (OVERSPEED) 1.13

599.
 .955 (.941)
 1.020 (.973)
 88.4
 .00
 1.13

TEST NUMBER, 810001-02
 BAROMETER, IN HG 742.4
 HUMIDITY, G/KG 9.5
 TEMPERATURE, DEG C 24.4
 CARBON DIOXIDE, G/KI 742.7
 FUEL ECONOMY, MPG 11.9

810001-02
 742.4
 9.5
 24.4
 742.7
 11.9

HYDROCARBONS, (THC) G/KI .45
 CARBON MONOXIDE, G/KI 2.65
 OXIDES OF NITROGEN, G/KI .03

.45
 2.65
 .03

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B1CJ74-01 RUN 1
VEHICLE MODEL 99 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 5/31/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3063. KM(1903. MILES)

BAROMETER 737.11 MM HG(29.02 IN HG)
RELATIVE HUMIDITY 63. PCT

DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 12.5 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.06

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.0 (109.0)	41.7 (107.0)	42.2 (108.0)	41.1 (106.0)
BLOWER REVOLUTIONS	40347.	69397.	40326.	69400.
TOT FLOW STD. CUL METRES(SCF)	74.6 (2634.)	128.6 (4540.)	74.6 (2635.)	128.7 (4545.)
THC SAMPLE METER/RANGE/PPM	78.5/ 2/ 78.	14.4/ 2/ 14.	28.6/ 2/ 28.	13.0/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	14.5/ 2/ 14.	15.3/ 2/ 15.	12.9/ 2/ 13.	13.2/ 2/ 13.
CO SAMPLE METER/RANGE/PPM	47.4/ 13/ 111.	1.4/ 12/ 1.	9.6/ 12/ 9.	5.1/ 12/ 5.
CO BCKGRD METER/RANGE/PPM	.9/ 13/ 2.	1.4/ 12/ 1.	.8/ 12/ 1.	.5/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	58.1/ 1/1.0662	83.6/ 14/ .7271	94.1/ 14/ .9726	82.1/ 14/ .6979
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441	12.9/ 14/ .0434	13.2/ 14/ .0446	13.1/ 14/ .0442
NOX SAMPLE METER/RANGE/PPM	32.1/ 1/ 8.1	6.8/ 1/ 1.8	14.5/ 1/ 3.7	4.4/ 1/ 1.2
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0	.0/ 1/ .0	.1/ 1/ .0	.2/ 1/ .1
DILUTION FACTOR	12.36	18.39	13.73	19.15
THC CONCENTRATION PPM	64.	0.	16.	0.
CO CONCENTRATION PPM	104.	0.	8.	4.
CO2 CONCENTRATION PCT	1.0257	.6861	.9312	.6560
NOX CONCENTRATION PPM	8.1	1.8	3.7	1.1
THC MASS GRAMS	2.77	.00	.71	.04
CO MASS GRAMS	9.05	.01	.71	.64
CO2 MASS GRAMS	1400.9	1615.0	1272.5	1545.8
NOX MASS GRAMS	1.22	.46	.56	.29
THC GRAMS/MI	.77	.00	.20	.01
CO GRAMS/MI	2.51	.00	.20	.17
CO2 GRAMS/MI	388.2	419.4	355.4	401.0
NOX GRAMS/MI	.34	.12	.16	.07
FUEL ECONOMY IN MPG	22.48	21.77	24.89	23.36
RUN TIME SECONDS	584.	868.	584.	868.
MEASURED DISTANCE MI	3.61	7.46	3.58	7.44
SCF, DRY	.970	.972	.971	.973
DFC, WET (DRY)		.936(.917)		.940(.921)
TOT VOL (SCM) / SAM BLR (SCM)		203.2/ .00		203.3/ .00

COMPOSITE RESULTS

TEST NUMBER B1CJ74-01
BAROMETER MM HG 737.1
HUMIDITY G/KG 12.5
TEMPERATURE DEG C 24.4

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	395.3	(389.9)
FUEL ECONOMY MPG	22.34	(22.65)
HYDROCARBONS (THC) G/MI	.21	(.22)
CARBON MONOXIDE G/MI	.58	(.63)
OXIDES OF NITROGEN G/MI	.18	(.16)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B1CJMA-01 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 5/31/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3085. KM(1917. MILES)

BAROMETER 736.35 MM HG(28.99 IN HG)
RELATIVE HUMIDITY 56. PCT
BAG RESULTS

DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 11.0 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.01

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(INL. H2O)	774.7 (38.5)
BLOWER INLET P MM. H2O(INL. H2O)	774.7 (38.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)
BLOWER REVOLUTIONS	61163.
TOT FLOW STD. CU. METRES(SCF)	112.7 (3981.)
THC SAMPLE METER/RANGE/PPM	13.7/ 2/ 14.
THC BCKGRD METER/RANGE/PPM	11.9/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	11.6/ 12/ 11.
CO BCKGRD METER/RANGE/PPM	.7/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	73.7/ 1/1.3593
CO2 BCKGRD METER/RANGE/PCT	2.8/ 1/ .0494
NOX SAMPLE METER/RANGE/PPM	37.6/ 1/ 9.5
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	9.84
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	10.
CO2 CONCENTRATION PCT	1.3149
NOX CONCENTRATION PPM	9.3
THC MASS GRAMS	.19
CO MASS GRAMS	1.32
CO2 MASS GRAMS	2714.2
NOX MASS GRAMS	2.83
RUN TIME	765.
DFC, WET (DRY)	.898 (.882)
SCF, WET (DRY)	1.000 (.969)
VOL (SCM)	112.7
SAM BLR (SCM)	.00
MI (MEASURED)	10.26

TEST NUMBER,	B1CJMA-01
BAROMETER,	MM HG
HUMIDITY,	G/KG
TEMPERATURE,	DEG C
CARBON DIOXIDE,	G/MI
FUEL ECONOMY,	MPG

HYDROCARBONS. (THC)	G/MI	.02
CARBON MONOXIDE,	G/MI	.13
OXIDES OF NITROGEN,	G/MI	.20

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 81CJM4-01 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 5/31/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3101. KM(1927. MILES)

BAROMETER 736.09 MM HG(28.98 IN HG)
RELATIVE HUMIDITY 58. PCT
BAG RESULTS

DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 10.8 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.00

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(INL H2O)	762.0 (30.0)
BLOWER INLET P MM. H2O(INL H2O)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	47777.
TOT FLOW STD. CU. METRES(SCF)	88.3 (3117.)
THC SAMPLE METER/RANGE/PPM	38.7/ 2/ 30.
THC BCKGRD METER/RANGE/PPM	16.2/ 2/ 16.
CO SAMPLE METER/RANGE/PPM	47.9/ 13/ 112.
CO BCKGRD METER/RANGE/PPM	.5/ 13/ 1.
CO2 SAMPLE METER/RANGE/PCT	75.6/ 14/ .5838
CO2 BCKGRD METER/RANGE/PCT	13.7/ 14/ .0466
NOX SAMPLE METER/RANGE/PPM	5.4/ 1/ 1.4
NOX BCKGRD METER/RANGE/PPM	.4/ 1/ .1
DILUTION FACTOR	22.42
THC CONCENTRATION PPM	15.
CO CONCENTRATION PPM	107.
CO2 CONCENTRATION PCT	.5393
NOX CONCENTRATION PPM	1.3
THC MASS GRAMS	.77
CO MASS GRAMS	11.04
CO2 MASS GRAMS	871.8
NOX MASS GRAMS	.22
RUN TIME SECONDS	598.
DFC, WET (DRY)	.955 (.937)
SCF, WET (DRY)	1.000 (.976)
VOL (SCM)	88.3
SAM BLR (SCM)	.00
MI (MEASURED)	1.19

TEST NUMBER,	81CJM4-01
BAROMETER, MM HG	736.1
HUMIDITY, G/KG	10.8
TEMPERATURE, DEG C	23.3
CARBON DIOXIDE, G/MI	735.4
FUEL ECONOMY, MPG	11.8

HYDROCARBONS. (THC) G/MI	.65
CARBON MONOXIDE, G/MI	9.31
OXIDES OF NITROGEN, G/MI	.19

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

EST NO. B1CJ74-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 6/ 1/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3104. KM(1929. MILES)

BAROMETER 737.36 MM HG(29.03 IN HG)
RELATIVE HUMIDITY 58. PCT

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 10.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .99

A6 RESULTS

BAG NUMBER
DESCRIPTION

	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	774.7 (38.5)	774.7 (38.5)	762.0 (38.0)	762.0 (38.0)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (38.0)	774.7 (38.5)	762.0 (38.0)	762.0 (38.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	39.4 (103.0)	42.2 (108.0)	39.4 (103.0)
BLOWER REVOLUTIONS	40367.	69506.	40353.	69405.
TOT FLOW STD. CU. METRES(SCF)	74.6 (2636.)	129.1 (4560.)	74.7 (2638.)	129.2 (4562.)
THC SAMPLE METER/RANGE/PPM	9.2/ 3/ 92.	11.6/ 2/ 11.	21.3/ 2/ 21.	12.0/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	1.3/ 3/ 13.	11.7/ 2/ 12.	10.9/ 2/ 11.	12.6/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	68.4/ 13/ 164.	.8/ 12/ 1.	3.5/ 12/ 3.	1.3/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.6/ 13/ 1.	.8/ 12/ 1.	.5/ 12/ 0.	.5/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	57.6/ 1/1.0568	83.3/ 14/ .7212	94.2/ 14/ .9753	82.0/ 14/ .6960
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	13.2/ 14/ .0446	12.7/ 14/ .0426	12.7/ 14/ .0426
NOX SAMPLE METER/RANGE/PPM	22.8/ 1/ 5.8	4.7/ 1/ 1.2	16.5/ 1/ 4.2	3.1/ 1/ .8
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1	3.7/ 1/ 1.0	.5/ 1/ .1	.0/ 1/ .0
DILUTION FACTOR	12.39	18.55	13.71	19.22
THC CONCENTRATION PPM	80.	1.	11.	0.
CO CONCENTRATION PPM	156.	0.	3.	1.
CO2 CONCENTRATION PCT	1.0130	.6790	.9358	.6555
NOX CONCENTRATION PPM	5.7	.3	4.1	.8
THC MASS GRAMS	3.44	.04	.48	.00
CO MASS GRAMS	13.55	.00	.24	.11
CO2 MASS GRAMS	1384.5	1605.3	1280.2	1550.5
NOX MASS GRAMS	.81	.00	.58	.20
THC GRAMS/MI	.95	.01	.13	.00
CO GRAMS/MI	3.73	.00	.07	.03
CO2 GRAMS/MI	381.0	417.9	357.5	482.9
NOX GRAMS/MI	.22	.02	.16	.05
FUEL ECONOMY IN MPG	22.75	21.94	24.77	23.26
RUN TIME SECONDS	503.	868.	504.	867.
MEASURED DISTANCE MI	3.63	7.48	3.58	7.43
SCF, DRY	.972	.974	.972	.974
DFC, WET (DRY)		.936(.919)		.940(.923)
TOT VOL (SCM) / SAM BLR (SCM)		203.8/ .00		203.9/ .00

COMPOSITE RESULTS

TEST NUMBER B1CJ74-02
BAROMETER MM HG 737.4
HUMIDITY G/KG 10.3
TEMPERATURE DEG C 22.8

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	393.6	(389.2)
FUEL ECONOMY MPG	22.42	(22.67)
HYDROCARBONS (THC) G/MI	.24	(.24)
CARBON MONOXIDE G/MI	.00	(.81)
OXIDES OF NITROGEN G/MI	.10	(.11)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 81CJMA-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.9 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 6/ 1/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 10.5 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3127. KM(1943. MILES)

BAROMETER 736.60 MM HG(29.00 IN HG)
RELATIVE HUMIDITY 55. PCT
AG RESULTS

NOX HUMIDITY CORRECTION FACTOR .99

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	774.7 (38.5)
BLOWER INLET P MM. H2O(IN. H2O)	762.8 (38.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	61207.
TOT FLOW STD. CUL. METRES(SCF)	113.3 (3999.)
THC SAMPLE METER/RANGE/PPM	12.1/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	12.3/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	7.9/ 12/ 8.
CO BCKGRD METER/RANGE/PPM	.9/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	72.3/ 1/1.3328
CO2 BCKGRD METER/RANGE/PCT	2.4/ 1/ .0423
NOX SAMPLE METER/RANGE/PPM	38.1/ 1/ 9.6
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0
DILUTION FACTOR	10.04
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	6.
CO2 CONCENTRATION PCT	1.2947
NOX CONCENTRATION PPM	9.6
THC MASS GRAMS	.07
CO MASS GRAMS	.86
CO2 MASS GRAMS	2684.8
NOX MASS GRAMS	2.06
RUN TIME SECONDS	765.
DFC, WET (DRY)	.900 (.884)
SCF, WET (DRY)	1.000 (.970)
VOL (SCM)	113.3
SAM BLR (SCM)	.00
MI (MEASURED)	10.15

TEST NUMBER,	81CJMA-02
BAROMETER, MM HG	736.6
HUMIDITY, G/KG	10.5
TEMPERATURE, DEG C	23.9
CARBON DIOXIDE, G/MI	264.4
FUEL ECONOMY, MPG	33.5

HYDROCARBONS, (THC) G/MI	.01
CARBON MONOXIDE, G/MI	.00
OXIDES OF NITROGEN, G/MI	.20

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NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 81CJMA-02 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 6/ 1/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-995-F
ODOMETER 3143. KM(1953. MILES)

BAROMETER 736.60 MM HG(29.00 IN HG)
RELATIVE HUMIDITY 55. PCT

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 10.5 GR/KG

NOX HUMIDITY CORRECTION FACTOR .99

BAG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	762.0 (30.0)
BLOWER INLET P MM. H2O(IN. H2O)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	47814.
TOT FLOW STD. CU. METRES(SCF)	88.5 (3126.)
THC SAMPLE METER/RANGE/PPM	35.0/ 2/ 35.
THC BKGND METER/RANGE/PPM	19.0/ 2/ 19.
CO SAMPLE METER/RANGE/PPM	67.5/ 13/ 161.
CO BKGND METER/RANGE/PPM	.7/ 13/ 2.
CO2 SAMPLE METER/RANGE/PCT	74.7/ 14/ .5695
CO2 BKGND METER/RANGE/PCT	12.8/ 14/ .0438
NOX SAMPLE METER/RANGE/PPM	3.9/ 1/ 1.0
NOX BKGND METER/RANGE/PPM	.1/ 1/ .0
DILUTION FACTOR	22.77
THC CONCENTRATION PPM	17.
CO CONCENTRATION PPM	155.
CO2 CONCENTRATION PCT	.5284
NOX CONCENTRATION PPM	1.0
THC MASS GRAMS	.85
CO MASS GRAMS	15.98
CO2 MASS GRAMS	856.3
NOX MASS GRAMS	.17
RUN TIME	598.
SECOND	
DPC, WET (DRY)	.956 (.939)
SCF, WET (DRY)	1.000 (.977)
VOL (SCM)	88.5
SAM BLR (SCM)	.00
MI (MEASURED)	1.16

TEST NUMBER.

81CJMA-02

BAROMETER. MM HG
HUMIDITY. G/KG
TEMPERATURE. DEG C
CARBON DIOXIDE. G/MI
FUEL ECONOMY. MPG

736.6
10.5
23.9
741.3
11.6

HYDROCARBONS. (THC) G/MI
CARBON MONOXIDE. G/MI
OXIDES OF NITROGEN. G/MI

.74
13.84
.15

APPENDIX H

COMPUTER PRINTOUTS OF CHEVROLET CORSICA AIR INJECTION EXPERIMENT RESULTS

Page H-	Test No.	Fuel	Catalyst	Test Cycle
2	B2CHCC-04A	M85	HC+Air1/3	FTP
3	B1CHCU-01A	Howell EEE	HC+Air1/3	FTP
4	HCA85/10	Howell EEE	HC+Air1	FTP
5	HCA100/10	Howell EEE	HC+Air1	FTP
6	B2CHCRF1	M85	HC+AIR1/3	FTP
7	B2CHCC-08A	M85	HC+AIR1/3	FTP

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PROJECT 00-2346-001

TEST NO. 82CHCU-04A RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L (171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 7/13/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG (3125. LBS)
ACTUAL ROAD LOAD 4.4 KM (5.9 HP)
M85 EM-998-F
ODOMETER 3293. KM (2046. MILES)

BAROMETER 743.97 MM HG (29.29 IN HG)
RELATIVE HUMIDITY 61. PCT
BAG RESULTS

DRY BULB TEMP. 22.2 DEG C (72.0 DEG F)
ABS. HUMIDITY 10.4 GM/KG

NOX HUMIDITY CORRECTION FACTOR .99

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O (IN. H2O)	762.0 (30.0)	767.1 (30.2)	767.1 (30.2)	767.1 (30.2)
BLOWER INLET P MM. H2O (IN. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)	764.5 (30.1)
BLOWER INLET TEMP. DEG. C (DEG. F)	43.3 (110.0)	41.1 (106.0)	41.7 (107.0)	41.1 (106.0)
BLOWER REVOLUTIONS	40486.	69486.	40410.	69379.
TOT FLOW STD. CU. METRES (SCF)	75.6 (2668.)	130.2 (4597.)	75.6 (2671.)	129.9 (4588.)
THC SAMPLE METER/RANGE/PPM	19.5/ 2/ 19.	8.2/ 2/ 8.	12.5/ 2/ 12.	10.2/ 2/ 10.
THC BACKGRD METER/RANGE/PPM	8.1/ 2/ 8.	8.5/ 2/ 8.	10.7/ 2/ 11.	10.5/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	32.0/ 12/ 31.	1.6/ 12/ 2.	14.1/ 12/ 14.	3.9/ 12/ 4.
CO BACKGRD METER/RANGE/PPM	.4/ 12/ 0.	.4/ 12/ 0.	.5/ 12/ 0.	.6/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	56.5/ 1/1.0363	80.2/ 14/ .6625	91.2/ 14/ .8965	79.5/ 14/ .6499
CO2 BACKGRD METER/RANGE/PCT	2.4/ 1/ .0423	12.4/ 14/ .0415	12.5/ 14/ .0418	12.5/ 14/ .0418
NOX SAMPLE METER/RANGE/PPM	37.5/ 1/ 9.4	5.7/ 1/ 1.5	20.9/ 1/ 5.3	3.2/ 1/ .8
NOX BACKGRD METER/RANGE/PPM	.4/ 1/ .1	.2/ 1/ .1	.6/ 1/ .2	.3/ 1/ .1
DILUTION FACTOR	11.56	18.14	13.39	18.48
THC CONCENTRATION PPM	12.	0.	3.	0.
CO CONCENTRATION PPM	29.	1.	13.	3.
CO2 CONCENTRATION PCT	.9976	.6233	.8578	.6183
NOX CONCENTRATION PPM	9.3	1.4	5.2	.8
THC MASS GRAMS	1.02	.02	.22	.04
CO MASS GRAMS	2.59	.17	1.11	.46
CO2 MASS GRAMS	1380.2	1485.7	1187.8	1452.0
NOX MASS GRAMS	1.34	.36	.74	.19
THC GRAMS/MI	.28	.01	.06	.01
CO GRAMS/MI	.72	.04	.31	.12
CO2 GRAMS/MI	382.7	384.5	330.9	373.8
NOX GRAMS/MI	.37	.09	.21	.05
FUEL ECONOMY IN MPG	12.83	12.83	14.88	13.95
RUN TIME SECONDS	505.	868.	505.	867.
MEASURED DISTANCE MI	3.61	7.47	3.59	7.47
SCF, DRY	.963	.967	.965	.968
DFC, WET (DRY)		.933 (.915)		.938 (.920)
TOT VOL (SCM) / SAM BLR (SCM)		205.8/ .00		205.6/ .00

COMPOSITE RESULTS

TEST NUMBER 82CHCU-04A
BAROMETER MM HG 744.0
HUMIDITY G/KG 10.4
TEMPERATURE DEG C 22.2

		3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	369.4	(366.3)
FUEL ECONOMY	MPG	13.33	(13.44)
HYDROCARBONS (THC)	G/MI	.08	(.08)
CARBON MONOXIDE	G/MI	.26	(.28)
OXIDES OF NITROGEN	G/MI	.18	(.17)

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TEST NO. 81CHCU-01A RUN 1
VEHICLE MODEL 89 CORSTCA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 7/27/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 1

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KW(5.9 HP)
GASOLINE EM-1835-F
ODOMETER 1335. KM(827.2 MILES)

BAROMETER 741.17 MM HG(29.18 IN HG)
RELATIVE HUMIDITY 57. PCT
BAG RESULTS

DRY BULB TEMP. 22.2 DEG C(72.0 DEG F)
ABS. HUMIDITY 9.8 GM/KG

NOX HUMIDITY CORRECTION FACTOR .97

BAG NUMBER
DESCRIPTION

1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
762.0 (38.0)	762.0 (38.0)	762.0 (38.0)	762.0 (38.0)
762.0 (38.0)	762.0 (38.0)	762.0 (38.0)	762.0 (38.0)
40.6 (105.0)	39.4 (103.0)	41.1 (106.0)	38.9 (102.0)
40451.	69367.	40451.	69183.
75.6 (2668.)	129.9 (4585.)	75.5 (2665.)	129.5 (4573.)
47.4/ 2/ 47.	22.2/ 2/ 22.	23.5/ 2/ 23.	34.7/ 2/ 35.
14.5/ 2/ 14.	17.1/ 2/ 17.	19.7/ 2/ 20.	36.8/ 2/ 37.
87.6/ 12/ 88.	19.3/ 12/ 19.	12.1/ 12/ 12.	2.0/ 12/ 2.
.7/ 12/ 1.	1.1/ 12/ 1.	1.0/ 12/ 1.	.6/ 12/ 1.
98.2/ 14/ 1.0940	83.3/ 14/ .7212	94.1/ 14/ .9726	83.0/ 14/ .7153
13.5/ 14/ .0458	13.4/ 14/ .0454	13.1/ 14/ .0442	13.0/ 14/ .0438
38.5/ 1/ 9.7	6.7/ 1/ 1.7	24.2/ 1/ 6.1	8.6/ 1/ 2.2
.6/ 1/ .2	.4/ 1/ .1	.4/ 1/ .1	.8/ 1/ .2
12.10	18.48	13.73	18.64
34.	6.	5.	8.
84.	17.	18.	1.
1.8520	.6782	.9316	.6738
9.5	1.6	6.0	2.0
1.48	.45	.23	.00
7.36	2.59	.91	.28
1455.5	1612.5	1287.4	1597.6
1.34	.40	.85	.49
.41	.12	.06	.00
2.05	.67	.26	.05
404.8	418.5	361.6	417.1
.37	.10	.24	.13
21.66	21.38	24.48	22.70
505.	867.	506.	864.
3.60	7.45	3.56	7.39
.971	.974	.973	.974
	.935(.918)		.939(.922)
	205.4/ .00		205.0/ .00

COMPOSITE RESULTS

TEST NUMBER 81CHCU-01A
BAROMETER MM HG 741.2
HUMIDITY G/KG 9.8
TEMPERATURE DEG C 22.2

	3-BAG	(4-BAG)
CARBON DIOXIDE	G/M	400.1 (399.6)
FUEL ECONOMY	MPG	22.06 (22.11)
HYDROCARBONS (THC)	G/M	.16 (.13)
CARBON MONOXIDE	G/M	.84 (.66)
OXIDES OF NITROGEN	G/M	.20 (.20)

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PROJECT 08-2346-001

ST NO. HCA85/10 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 8/ 3/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 21.1 DEG C(70.0 DEG F)
ABS. HUMIDITY 10.9 GM/KG

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
GASOLINE EM-1035-F
ODOMETER 3402. KM(2114. MILES)
NOX HUMIDITY CORRECTION FACTOR 1.01

BAROMETER 741.93 MM HG(29.21 IN HG)
RELATIVE HUMIDITY 68. PCT
BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT
BLOWER DIF P MM. H2O(INL. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET P MM. H2O(INL. H2O)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	40.6 (105.0)	42.2 (108.0)
BLOWER REVOLUTIONS	40544.	69494.	40395.
TOT FLOW STD. CU. METRES(SCF)	75.4 (2664.)	130.0 (4589.)	75.3 (2659.)
THC SAMPLE METER/RANGE/PPM	44.9/ 2/ 45.	20.9/ 2/ 21.	25.2/ 2/ 25.
THC BCKGRD METER/RANGE/PPM	17.8/ 2/ 18.	22.1/ 2/ 22.	24.6/ 2/ 25.
CO SAMPLE METER/RANGE/PPM	92.5/ 12/ 93.	1.9/ 12/ 2.	8.1/ 12/ 8.
CO BCKGRD METER/RANGE/PPM	1.2/ 12/ 1.	1.1/ 12/ 1.	.9/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	59.4/ 1/1.0905	83.5/ 14/ .7251	94.5/ 14/ .9836
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	14.0/ 14/ .0478	13.6/ 14/ .0462
NOX SAMPLE METER/RANGE/PPM	30.0/ 1/ 7.6	5.0/ 1/ 1.3	18.5/ 1/ 4.7
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1	.3/ 1/ .1	.4/ 1/ .1
DILUTION FACTOR	12.14	18.42	13.58
THC CONCENTRATION PPM	29.	0.	2.
CO CONCENTRATION PPM	88.	1.	7.
CO2 CONCENTRATION PCT	1.0468	.6799	.9409
NOX CONCENTRATION PPM	7.5	1.2	4.6
THC MASS GRAMS	1.24	.00	.10
CO MASS GRAMS	7.73	.12	.59
CO2 MASS GRAMS	1446.0	1617.9	1297.3
NOX MASS GRAMS	1.09	.31	.67
THC GRAMS/MI	.34	.00	.03
CO GRAMS/MI	2.14	.03	.16
CO2 GRAMS/MI	399.8	419.3	360.6
NOX GRAMS/MI	.30	.08	.19
FUEL ECONOMY IN MPG	21.94	21.15	24.57
RUN TIME SECONDS	506.	868.	505.
MEASURED DISTANCE MI	3.62	3.86	3.60
SCF, DRY	.968	.971	.969

IMPOSITE RESULTS

TEST NUMBER HCA85/10
BAROMETER MM HG 741.9
HUMIDITY G/KG 10.9
TEMPERATURE DEG C 21.1

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	399.1	(.0)
FUEL ECONOMY MPG	22.16	(.00)
HYDROCARBONS (THC) G/MI	.08	(.00)
CARBON MONOXIDE G/MI	.50	(.00)
OXIDES OF NITROGEN G/MI	.16	(.00)

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PROJECT 00-2346-001

TEST NO. HCA100/10 RUN 1
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 8/ 8/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
GASOLINE EM-1035-F
ODOMETER 3436. KM(2135. MILES)

BAROMETER 743.20 MM HG(29.26 IN HG)
RELATIVE HUMIDITY 53. PCT

DRY BULB TEMP. 22.2 DEG C(72.0 DEG F)
ABS. HUMIDITY 9.1 GM/KG

NOX HUMIDITY CORRECTION FACTOR .95

BAG RESULTS

BAG NUMBER
DESCRIPTION

1A
COLD TRANSIENT
0-140 SEC

1B
COLD TRANSIENT
140-505 SEC

2
STABILIZED

3
HOT TRANSIENT

BLOWER DIF P MM. H2O(IN. H2O)	759.5 (29.9)	762.0 (30.0)	762.0 (30.0)	762.0 (30.0)
BLOWER INLET P MM. H2O(IN. H2O)	749.3 (29.5)	759.5 (29.9)	759.5 (29.9)	759.5 (29.9)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	42.2 (108.0)	41.1 (106.0)	41.7 (107.0)
BLOWER REVOLUTIONS	11219.	29204.	69351.	40415.
TOT FLOW STD. CU. METRES(SCF)	20.9 (740.)	54.6 (1927.)	129.8 (4585.)	75.6 (2669.)
THC SAMPLE METER/RANGE/PPM	44.6/ 2/ 45.	19.4/ 2/ 19.	22.6/ 2/ 23.	26.8/ 2/ 27.
THC BCKGRD METER/RANGE/PPM	15.9/ 2/ 16.	17.0/ 2/ 17.	22.9/ 2/ 23.	27.3/ 2/ 27.
CO SAMPLE METER/RANGE/PPM	30.6/ 12/ 30.	19.1/ 12/ 19.	10.0/ 12/ 10.	11.5/ 12/ 11.
CO BCKGRD METER/RANGE/PPM	1.3/ 12/ 1.	1.5/ 12/ 1.	1.0/ 12/ 1.	1.3/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	94.3/ 14/ .9781	61.5/ 1/1.1290	84.0/ 14/ .7351	93.8/ 14/ .9643
CO2 BCKGRD METER/RANGE/PCT	13.8/ 14/ .0470	2.6/ 1/ .0459	13.8/ 14/ .0470	13.7/ 14/ .0466
NOX SAMPLE METER/RANGE/PPM	29.8/ 2/ 29.8	12.9/ 1/ 3.3	2.2/ 1/ .6	15.9/ 1/ 4.1
NOX BCKGRD METER/RANGE/PPM	.4/ 2/ .4	1.3/ 1/ .3	1.1/ 1/ .3	.9/ 1/ .2
DILUTION FACTOR	13.60	11.02	18.15	13.84
THC CONCENTRATION PPM	30.	4.	1.	1.
CO CONCENTRATION PPM	28.	17.	8.	10.
CO2 CONCENTRATION PCT	.9345	1.0878	.6907	.9211
NOX CONCENTRATION PPM	29.5	3.0	.3	3.9
THC MASS GRAMS	.36	.12	.07	.06
CO MASS GRAMS	.67	1.05	1.27	.84
CO2 MASS GRAMS	358.4	1006.7	1641.9	1274.7
NOX MASS GRAMS	1.12	.30	.07	.53
THC GRAMS/MI	.53	.04	.02	.02
CO GRAMS/MI	1.00	.36	.33	.23
CO2 GRAMS/MI	528.7	372.8	424.2	354.6
NOX GRAMS/MI	1.65	.10	.02	.15
FUEL ECONOMY IN MPG	16.67	21.98	20.88	22.67
RUN TIME SECONDS	140.	365.	867.	505.
MEASURED DISTANCE MI	.68	3.59	3.87	7.47
SCF, DRY	.974	.972	.976	.974
DFC, WET (DRY)		.918(.903)		.939(.922)
TOT VOL (SCM) / SAM BLR (SCM)		75.5/ .00		205.4/ .00

COMPOSITE RESULTS

TEST NUMBER HCA100/10
BAROMETER MM HG 743.2
HUMIDITY G/KG 9.1
TEMPERATURE DEG C 22.2

3-BAG
CARBON DIOXIDE G/MI 400.6
FUEL ECONOMY MPG 22.12
HYDROCARBONS (THC) G/MI .04
CARBON MONOXIDE G/MI .33
OXIDES OF NITROGEN G/MI .13

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TEST NO. B2CHCRF1 RUN
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 10/ 2/90
BAG CART NO. 2 / CVS NO. 2
DYNQ NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
M85 EM-1143-F
ODOMETER 3652. KM(2269. MILES)

BAROMETER 748.66 MM HG(29.16 IN HG)
RELATIVE HUMIDITY 57. PCT
BAG RESULTS

DRY BULB TEMP. 22.2 DEG C(72.0 DEG F)
ABS. HUMIDITY 9.8 GM/KG

NOX HUMIDITY CORRECTION FACTOR .97

BAG NUMBER
DESCRIPTION

1A COLD TRANSIENT 0-140 SEC	1B COLD TRANSIENT 140-585 SEC	2 STABILIZED	3 HOT TRANSIENT
BLOWER DIF P MM H2O(INL H2O)	792.5 (31.2)	808.1 (31.5)	789.9 (31.1)
BLOWER INLET P MM H2O(INL H2O)	789.9 (31.1)	795.0 (31.3)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	41.7 (107.0)	41.7 (107.0)
BLOWER REVOLUTIONS	11222.	69464.	40487.
TOT FLOW STD. CU. METRES(SCF)	28.8 (733.)	129.2 (4561.)	75.1 (2653.)
THC SAMPLE METER/RANGE/PPM	27.3/ 2/ 27.	12.6/ 2/ 13.	10.5/ 2/ 10.
THC BACKGRD METER/RANGE/PPM	14.7/ 2/ 15.	13.3/ 2/ 13.	9.6/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	58.6/ 13/ 118.	47.7/ 12/ 47.	25.7/ 12/ 26.
CO BACKGRD METER/RANGE/PPM	.6/ 13/ 1.	1.0/ 12/ 1.	.6/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	93.3/ 14/ .9588	58.8/ 1/1.0793	92.8/ 14/ .9168
CO2 BACKGRD METER/RANGE/PCT	14.3/ 14/ .0490	2.8/ 1/ .0494	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	23.7/ 2/ 23.8	29.2/ 1/ 7.4	25.7/ 1/ 6.5
NOX BACKGRD METER/RANGE/PPM	.4/ 2/ .4	.6/ 1/ .2	.2/ 1/ .1
DILUTION FACTOR	12.47	11.89	13.88
THC CONCENTRATION PPM	14.	8.	2.
CO CONCENTRATION PPM	112.	44.	24.
CO2 CONCENTRATION PCT	.9858	1.8343	.8748
NOX CONCENTRATION PPM	23.4	7.2	6.5
THC MASS GRAMS	.32	.83	.14
CO MASS GRAMS	2.71	2.88	2.18
CO2 MASS GRAMS	344.2	1827.8	1283.4
NOX MASS GRAMS	.98	.73	.98
THC GRAMS/MI	.47	.81	.84
CO GRAMS/MI	3.98	.96	.59
CO2 GRAMS/MI	586.2	352.6	336.2
NOX GRAMS/MI	1.33	.25	.25
FUEL ECONOMY IN MPG	9.61	12.83	13.61
RUN TIME SECONDS	148.	365.	586.
MEASURED DISTANCE MI	.68	3.59	3.58
SCF, DRY	.965	.964	.963
DFC, WET (DRY)		.913(.896)	.936(.919)
TOT VOL (SCM) / SAM BLR (SCM)		75.8/ .88	284.3/ .88

COMPOSITE RESULTS

TEST NUMBER B2CHCRF1
BAROMETER MM HG 748.7
HUMIDITY G/KG 9.8
TEMPERATURE DEG C 22.2

3-BAG
CARBON DIOXIDE G/MI 371.2
FUEL ECONOMY MPG 13.27
HYDROCARBONS (THC) G/MI .83
CARBON MONOXIDE G/MI .52
OXIDES OF NITROGEN G/MI .24

~~SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EXHAUSTION RESEARCH~~

FTP - VEHICLE EMISSIONS RESULTS -

PROJECT 00-3734-001

TEST NO. B2CHCC-08A RUN
VEHICLE MODEL 89 CORSICA
ENGINE 2.8 L(171. CID) V-6
TRANSMISSION A3

VEHICLE NO. 934
DATE 10/10/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1417. KG(3125. LBS)
ACTUAL ROAD LOAD 4.4 KM(5.9 HP)
M85 EM-1139-F
ODOMETER 3685. KM(2290. MILES)

BAROMETER 747.78 MM HG(29.44 IN HG)

RELATIVE HUMIDITY 38. PCT

DRY BULB TEMP. 22.2 DEG C(72.0 DEG F)

ABS. HUMIDITY 6.5 GM/KG

NOX HUMIDITY CORRECTION FACTOR .8

BAG RESULTS

BAG NUMBER

DESCRIPTION

1A	1B	2	3
COLD TRANSIENT	COLD TRANSIENT	STABILIZED	HOT TRANSIENT
0-140 SEC	140-505 SEC		
BLOWER DIF P MM H2O(IN. H2O)	795.0 (31.3)	800.1 (31.5)	810.3 (31.9)
BLOWER INLET P MM H2O(IN. H2O)	787.4 (31.0)	795.0 (31.3)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	42.8 (109.0)	40.6 (105.0)
BLOWER REVOLUTIONS	11267.	29260.	69451.
TOT FLOW STD. CU. METRES(SCF)	21.1 (745.)	54.7 (1932.)	130.3 (4600.)
THC SAMPLE METER/RANGE/PPM	20.4/ 2/ 20.	11.0/ 2/ 11.	10.0/ 2/ 10.
THC BKGND METER/RANGE/PPM	11.0/ 2/ 11.	10.3/ 2/ 10.	10.4/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	69.9/ 12/ 70.	27.4/ 12/ 27.	1.7/ 12/ 2.
CO BKGND METER/RANGE/PPM	.9/ 12/ 1.	.9/ 12/ 1.	.6/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	93.1/ 14/ .9455	57.9/ 1/1.0625	80.6/ 14/ .6698
CO2 BKGND METER/RANGE/PCT	13.5/ 14/ .0458	2.6/ 1/ .0459	13.5/ 14/ .0458
NOX SAMPLE METER/RANGE/PPM	25.3/ 2/ 25.4	32.4/ 1/ 8.2	9.6/ 1/ 2.5
NOX BKGND METER/RANGE/PPM	.3/ 2/ .3	.3/ 1/ .1	.1/ 1/ .0
DILUTION FACTOR	12.61	11.29	17.94
THC CONCENTRATION PPM	10.	2.	0.
CO CONCENTRATION PPM	66.	25.	1.
CO2 CONCENTRATION PCT	.9033	1.0206	.6266
NOX CONCENTRATION PPM	25.1	8.1	2.5
THC MASS GRAMS	.24	.10	.03
CO MASS GRAMS	1.63	1.62	.17
CO2 MASS GRAMS	348.8	1022.3	1494.3
NOX MASS GRAMS	.89	.74	.54
THC GRAMS/MI	.36	.03	.01
CO GRAMS/MI	2.41	.56	.04
CO2 GRAMS/MI	515.5	352.9	389.2
NOX GRAMS/MI	1.31	.26	.14
FUEL ECONOMY IN MPG	9.49	12.00	12.67
RUN TIME SECONDS	141.	365.	867.
MEASURED DISTANCE MI	.68	3.57	7.41
SCF, DRY	.972	.970	.976
DFC, WET (DRY)		.914(.903)	.937(.925)
TOT VOL (SCM) / SAM BLR (SCM)		75.8/ .00	205.8/ .00

COMPOSITE RESULTS

TEST NUMBER B2CHCC08A
BAROMETER MM HG 747.8
HUMIDITY G/KG 6.5
TEMPERATURE DEG C 22.2

3-BAG
CARBON DIOXIDE G/MI 373.1
FUEL ECONOMY MPG 13.21
HYDROCARBONS (THC) G/MI .03
CARBON MONOXIDE G/MI .31
OXIDES OF NITROGEN G/MI .25

APPENDIX I

**HYDROCARBON SPECIATION TEST RESULTS FOR
TEST NOS. B2HCRF1, B2CHCC-05A, AND B2CHCC-08A**

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCRF1**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
METHANOL	37	10.2	12.24	0	0.0	0.00	0	0.0	0.00	2.1	6.50
METHANE	99	27.7	33.28	30	7.8	42.23	54	15.0	73.49	13.9	42.87
ETHYLENE	1	0.4	0.43	4	1.0	5.63	0	0.0	0.00	0.6	1.89
ETHANE	7	1.9	2.23	0	0.0	0.00	5	1.3	6.43	0.7	2.30
ACETYLENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PROPANE	2	0.5	0.65	0	0.0	0.00	0	0.0	0.00	0.1	0.35
PROPYLENE	2	0.5	0.61	0	0.0	0.00	0	0.0	0.00	0.1	0.32
1,3-BUTADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTANE	0	0.0	0.05	0	0.0	0.00	0	0.0	0.00	0.0	0.03
BUTANE	13	3.6	4.38	6	1.8	8.66	0	0.0	0.00	1.6	4.99
1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTYLENE	1	0.2	0.28	1	0.2	1.12	0	0.0	0.00	0.2	0.48
CIS-2-BUTENE	0	0.0	0.02	0	0.1	0.36	0	0.0	0.00	0.0	0.12
TRANS-2-BUTENE	0	0.1	0.10	0	0.1	0.30	0	0.0	0.00	0.0	0.14
BENZENE	10	2.9	3.45	0	0.0	0.00	4	1.2	6.03	0.9	2.87
TOLUENE	11	3.1	3.72	0	0.0	0.00	1	0.2	1.02	0.7	2.15
ISOPENTANE	13	3.5	4.23	7	1.8	9.48	0	0.0	0.00	1.6	5.05
1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PENTANE	6	1.8	2.18	5	1.4	7.45	0	0.0	0.00	1.1	3.36
2-METHYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOPRENE(2-METHYL-1,3-BUTADIENE)	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
TRANS-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CIS-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYL-2-BUTENE	1	0.2	0.24	0	0.0	0.00	0	0.0	0.00	0.0	0.13
2,2-DIMETHYLBUTANE	1	0.2	0.25	0	0.0	0.00	0	0.0	0.00	0.0	0.13
CYCLOPENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CYCLOPENTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-METHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLBUTANE	2	0.7	0.83	0	0.0	0.00	0	0.0	0.00	0.1	0.44
2,3-DIMETHYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYLPENTANE	6	1.6	1.93	7	1.8	9.73	0	0.0	0.00	1.3	3.91
4-METHYL-2-PENTENE	6	1.6	1.89	7	1.8	9.50	0	0.0	0.00	1.2	3.82
MTBE	1	0.3	0.41	0	0.0	0.00	0	0.0	0.00	0.1	0.22
3-METHYLPENTANE	3	0.9	1.04	0	0.0	0.00	0	0.0	0.00	0.2	0.55
2-METHYL-1-PENTENE/1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
HEXANE	3	0.8	1.00	0	0.0	0.00	0	0.0	0.00	0.2	0.53

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCRF1**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
C8 OLEFINS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4-DIMETHYLPENTANE	2	0.5	0.62	0	0.0	0.00	0	0.0	0.00	0.1	0.33
METHYLCYCLOPENTANE	1	0.4	0.45	0	0.0	0.00	0	0.0	0.00	0.1	0.24
CYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOPENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYL-1,3-PENTADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	5	1.3	1.62	0	0.0	0.00	7	1.9	9.19	0.8	2.45
CYCLOHEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
5-METHYL-2-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLHEXANE	1	0.4	0.46	0	0.0	0.00	0	0.0	0.00	0.1	0.24
2,2,4-TRIMETHYLPENTANE	10	2.7	3.24	0	0.0	0.00	1	0.2	0.79	0.6	1.86
N-HEPTANE	2	0.4	0.54	0	0.0	0.00	0	0.0	0.00	0.1	0.29
2,4,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOHEXANE	1	0.3	0.37	0	0.0	0.00	0	0.0	0.00	0.1	0.19
2,4,4-TRIMETHYL-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4,2-5-DIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,4-TRIMETHYLPENTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,3-TRIMETHYLPENTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYL-3-HEPTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3,5,5-TRIMETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-/4-METHYLHEPTANE	1	0.2	0.25	0	0.0	0.00	0	0.0	0.00	0.0	0.13
3-METHYLHEPTANE	1	0.2	0.25	0	0.0	0.00	0	0.0	0.00	0.0	0.13
2,5-DIMETHYL-1,5-HEXADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-ETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1-CIS-4-DIMETHYLCYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
OCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,5/3,5-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ETHYLBENZENE	2	0.5	0.61	0	0.0	0.00	0	0.0	0.00	0.1	0.33
2,3-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
P-XYLENE/M-XYLENE	3	0.9	1.10	0	0.0	0.00	0	0.0	0.00	0.2	0.59
2-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCRF1**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
O-XYLENE	2	0.5	0.61	0	0.0	0.00	0	0.0	0.00	0.1	0.33
NONANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
TRANS-2-NONENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PROPYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLOCTANE	1	0.2	0.29	0	0.0	0.00	0	0.0	0.00	0.0	0.15
O-ETHYLTOLUENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1,2,4-TRIMETHYLBENZENE	2	0.5	0.64	0	0.0	0.00	0	0.0	0.00	0.1	0.34
ISOBUTYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
DECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
P-CYME NE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
INDAN(E)	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-PHENYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
M-DIETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1-METHYL-3-PROPYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
N-BUTYLBENZENE/P-DIETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
O-DIETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYLDECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
BICYCLOPENTYL	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
UNDECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.14
1,3,5-TRIMETHYLBENZENE	1	0.2	0.27	0	0.0	0.00	0	0.0	0.00	0.0	0.00
C7 OLEFINS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
C8-C9 OLEFINS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
C9-C11 PARAFFINS, OLEFINS, AROMATICS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
FORMALDEHYDE	37	10.3	12.36	0	0.1	0.43	2	0.5	2.36	2.3	7.10
ACETALDEHYDE	3	0.7	0.90	4	0.9	5.11	1	0.1	0.68	0.7	2.11
ACROLEIN	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ACETONE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PROPIONALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CROTONALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTYRALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYL ETHYL KETONE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
BENZALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
HEXANALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00

**HYDROCARBON SPECIATION FOR THE CHEVROELT CORSICA,
TEST NO. B2CHCC-05A**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
METHANOL	84.92	23.7	43.90	0	0.0	0.00	0	0.0	0.00	4.9	17.04
METHANE	85	23.8	43.88	35	9.2	50.55	67	18.8	62.41	14.8	51.40
ETHYLENE	1	0.3	0.59	0	0.0	0.00	0	0.0	0.00	0.1	0.23
ETHANE	3	0.8	1.58	3	0.9	5.01	3	0.7	2.36	0.8	2.91
ACETYLENE	0	0.0	0.00	2	0.6	3.04	0	0.0	0.00	0.3	0.99
PROPANE	4	1.2	2.13	6	1.5	8.01	5	1.4	4.72	1.4	4.78
PROPYLENE	2	0.6	1.14	3	0.8	4.37	0	0.0	0.00	0.5	1.86
1,3-BUTADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTANE	1	0.2	0.31	1	0.4	2.01	0	0.1	0.45	0.3	0.90
BUTANE	14	3.9	7.14	1	0.3	1.52	7	2.0	6.58	1.5	5.15
1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTYLENE	0	0.1	0.13	0	0.0	0.00	0	0.0	0.00	0.0	0.05
CIS-2-BUTENE	1	0.2	0.36	0	0.0	0.00	1	0.2	0.82	0.1	0.37
TRANS-2-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
BENZENE	9	2.6	4.81	1	0.3	1.92	3	0.8	2.74	0.9	3.27
TOLUENE	10	2.9	5.39	0	0.0	0.00	1	0.3	0.98	0.7	2.37
ISOPENTANE	5	1.4	2.55	0	0.0	0.00	0	0.0	0.00	0.3	0.99
1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PENTANE	3	0.7	1.31	2	0.5	2.75	1	0.3	1.10	0.5	1.72
2-METHYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOPRENE(2-METHYL-1,3-BUTADIENE)	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
TRANS-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CIS-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYL-2-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2-DIMETHYLBUTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CYCLOPENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CYCLOPENTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-METHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLBUTANE	1	0.3	0.59	0	0.0	0.00	0	0.0	0.00	0.1	0.23
2,3-DIMETHYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYLPENTANE	1	0.4	0.69	3	0.9	4.78	2	0.7	2.25	0.7	2.47
4-METHYL-2-PENTENE	1	0.4	0.67	3	0.8	4.67	2	0.7	2.20	0.7	2.41
MTBE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLPENTANE	0	0.1	0.23	1	0.3	1.55	1	0.2	0.64	0.2	0.78
2-METHYL-1-PENTENE/1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
HEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCC-05A**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
C6 OLEFINS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4-DIMETHYLPENTANE	1	0.3	0.58	0	0.0	0.00	0	0.0	0.00	0.1	0.23
METHYLCYCLOPENTANE	0	0.1	0.23	1	0.3	1.52	0	0.1	0.22	0.2	0.64
CYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOPENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYL-1,3-PENTADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	5	1.3	2.47	0	0.0	0.00	0	0.0	0.00	0.3	0.96
CYCLOHEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
5-METHYL-2-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,4-TRIMETHYLPENTANE	17	4.7	8.76	0	0.0	0.00	8	2.3	7.50	1.6	5.55
N-HEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4,4-TRIMETHYL-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4/2-5-DIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,4-TRIMETHYLPENTANE	2	0.5	0.84	0	0.0	0.00	0	0.0	0.00	0.1	0.33
2,3,3-TRIMETHYLPENTANE	1	0.3	0.58	0	0.0	0.00	0	0.0	0.00	0.1	0.23
2-METHYL-3-HEPTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3,5,5-TRIMETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2/4-METHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,5-DIMETHYL-1,5-HEXADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-ETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1-CIS-4-DIMETHYLCYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
OCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,5/3,5-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
P-XYLENE/M-XYLENE	5	1.3	2.35	0	0.0	0.00	0	0.0	0.00	0.3	0.91
2-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCC-08A**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
2,4-DIMETHYLPENTANE	3	0.8	0.42	0	0.0	0.00	0	0.0	0.00	0.2	0.28
METHYLCYCLOPENTANE	1	0.3	0.19	0	0.0	0.00	0	0.0	0.00	0.1	0.12
CYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOPENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYL-1,3-PENTADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	8	2.2	1.20	0	0.0	0.00	0	0.0	0.00	0.5	0.80
CYCLOHEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
5-METHYL-2-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,4-TRIMETHYLPENTANE	16	4.4	2.39	0	0.0	0.00	6	1.6	3.82	1.4	2.36
N-HEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,4-TRIMETHYL-1-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYLCYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4,4-TRIMETHYL-2-PENTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4/2-6-DIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,4-TRIMETHYLPENTANE	4	1.0	0.55	0	0.0	0.00	0	0.0	0.00	0.2	0.37
2,3,3-TRIMETHYLPENTANE	2	0.7	0.38	0	0.0	0.00	0	0.0	0.00	0.1	0.25
2-METHYL-3-HEPTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3,5,5-TRIMETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-4-METHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,5-DIMETHYL-1,5-HEXADIENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,2,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-ETHYL-1-HEXENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1-CIS-4-DIMETHYLCYCLOHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
OCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3,5-TRIMETHYLHEXANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,4-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,6/3,6-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ETHYLBENZENE	1	0.4	0.21	0	0.0	0.00	0	0.0	0.00	0.1	0.14
2,3-DIMETHYLHEPTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
P-XYLENEM-XYLENE	6	1.7	0.92	0	0.0	0.00	4	1.2	2.83	0.7	1.17
2-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
3-METHYLOCTANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
O-XYLENE	2	0.7	0.37	0	0.0	0.00	0	0.0	0.00	0.1	0.25

**HYDROCARBON SPECIATION FOR THE CHEVROLET CORSICA,
TEST NO. B2CHCC-08A**

COMPOUND	BAG 1			BAG 2			BAG 3			FTP TOTAL	
	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG	MG/MI	WGT. %	MG/MI	WGT. %
NONANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
TRANS-2-NONENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
PROPYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2,3-DIMETHYLOCTANE	1	0.3	0.15	0	0.0	0.00	0	0.0	0.00	0.1	0.10
O-ETHYLTOLUENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1,2,4-TRIMETHYLBENZENE	4	1.2	0.57	0	0.0	0.00	1	0.3	0.09	0.3	0.59
ISOBUTYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
DECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
P-CYMEANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
INDAN(E)	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
4-PHENYL-1-BUTENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
M-DIETHYLBENZENE	3	0.7	0.39	0	0.0	0.00	0	0.0	0.00	0.2	0.26
1-METHYL-3-PROPYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
N-BUTYLBENZENE/P-DIETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
O-DIETHYLBENZENE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
2-METHYLDECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
BICYCLOPENTYL	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
UNDECANE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
1,3,5-TRIMETHYLBENZENE	2	0.4	0.23	0	0.0	0.00	0	0.0	0.00	0.1	0.15
C7 OLEFINS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
C8-C9 OLEFINS	1	0.3	0.15	0	0.0	0.00	0	0.0	0.00	0.1	0.10
C9-C11 PARAFFINS, OLEFINS, AROMATICS	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
FORMALDEHYDE	61	17.1	9.32	5	1.4	10.53	3	0.7	1.59	4.5	7.82
ACETALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ACROLEIN	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ACETONE	2	0.6	0.31	2	0.5	3.71	1	0.2	0.36	0.4	0.73
PROPIONALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
CROTONALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
ISOBUTYRALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
METHYL ETHYL KETONE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
BENZALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00
HEXANALDEHYDE	0	0.0	0.00	0	0.0	0.00	0	0.0	0.00	0.0	0.00

APPENDIX J

COMPUTER PRINTOUTS OF TASK 2 CROWN VICTORIA #1 EMISSION TEST RESULTS

Page J-	Test No.	Fuel	Catalyst	Test Cycle
2	B2FBL-01	M85	OEM	FTP
3	B2FBL-01	M85	OEM	HFET
4	B2FBL-01	M85	OEM	NYCC
5	B2FJM1-02	M85	JM	FTP
6	B2FJM1-02	M85	JM	HFET
7	B2FJM1-02	M85	JM	NYCC
8	B2FJM1-03	M85	JM	FTP
9	B2FJM1-03	M85	JM	HFET
10	B2FJM1-03	M85	JM	NYCC
11	B2FD-01	M85	Degussa	FTP
12	B2FD-01	M85	Degussa	HFET
13	B2FD-01	M85	Degussa	NYC
14	B2FD-02	M85	Degussa	FTP
15	B2FD-02	M85	Degussa	HFET
16	B2FD-02	M85	Degussa	NYCC
17	B2FHC-01	M85	Camet	FTP
18	B2FHC-01	M85	Camet	HFET
19	B2FHC-01	M85	Camet	NYCC
20	B2FHC-02	M85	Camet	FTP
21	B2FHC-02	M85	Camet	HFET
22	B2FHC-02	M85	Camet	NYCC
23	B2FBL1-01	Howell EEE	OEM	FTP
24	B2FBL1-01	Howell EEE	OEM	HFET
25	B2FBL1-01	Howell EEE	OEM	NYCC
26	B1FJM-01	Howell EEE	JM	FTP
27	B1FJM-01	Howell EEE	JM	HFET
28	B1FJM-01	Howell EEE	JM	NYCC
29	B1FJM1-03	Howell EEE	JM	FTP
30	B1FJM1-03	Howell EEE	JM	HFET
31	B1FJM1-03	Howell EEE	JM	NYCC
32	B1FD-01	Howell EEE	Degussa	FTP
33	B1FD-01	Howell EEE	Degussa	HFET
34	B1FD-01	Howell EEE	Degussa	NYCC
35	B1FD-02	Howell EEE	Degussa	FTP
36	B1FD-02	Howell EEE	Degussa	HFET
37	B1FD-02	Howell EEE	Degussa	NYCC
38	B1FHC-01	Howell EEE	Camet	FTP
39	B1FHC-01	Howell EEE	Camet	HFET
40	B1FHC-01	Howell EEE	Camet	NYC
41	B1FHC-02	Howell EEE	Camet	FTP
42	B1FHC-02	Howell EEE	Camet	HFET
43	B1FHC-02	Howell EEE	Camet	NYCC

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 82FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(382. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/ 8/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)

BAROMETER 747.78 MM HG(29.44 IN HG)
RELATIVE HUMIDITY 32. PCT
BAG RESULTS

DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 6.2 GM/KG

NOX HUMIDITY CORRECTION FACTOR .87

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	888.1 (31.5)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)	789.9 (31.1)	789.9 (31.1)	789.9 (31.1)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)	41.7 (107.0)	42.2 (108.0)	41.1 (106.0)
BLOWER REVOLUTIONS	48508.	69445.	40470.	69421.
TOT FLOW STD. CU. METRES(SCF)	75.7 (2672.)	130.2 (4597.)	75.8 (2676.)	130.3 (4600.)
THC SAMPLE METER/RANGE/PPM	31.5/ 2/ 31.	9.0/ 2/ 9.	9.6/ 2/ 10.	8.9/ 2/ 9.
THC BCKGRD METER/RANGE/PPM	9.6/ 2/ 10.	8.2/ 2/ 8.	7.1/ 2/ 7.	7.5/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	62.1/ 13/ 147.	.4/ 12/ 0.	.9/ 12/ 1.	.3/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 13/ 0.	.3/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	73.0/ 1/1.3460	88.9/ 14/ .8411	62.1/ 1/1.1411	87.9/ 14/ .8182
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	13.4/ 14/ .0454	2.6/ 1/ .0459	13.2/ 14/ .0446
NOX SAMPLE METER/RANGE/PPM	86.9/ 1/ 21.7	30.0/ 1/ 7.6	68.8/ 1/ 17.2	28.7/ 1/ 7.3
NOX BCKGRD METER/RANGE/PPM	.9/ 1/ .2	.9/ 1/ .2	.5/ 1/ .1	.7/ 1/ .2
DILUTION FACTOR	8.83	14.29	10.54	14.69
THC CONCENTRATION PPM	23.	1.	3.	2.
CO CONCENTRATION PPM	140.	0.	1.	0.
CO2 CONCENTRATION PCT	1.3038	.7989	1.0995	.7766
NOX CONCENTRATION PPM	21.5	7.4	17.1	7.1
THC MASS GRAMS	1.93	.20	.27	.28
CO MASS GRAMS	12.38	.02	.08	.04
CO2 MASS GRAMS	1806.2	1904.2	1525.9	1852.4
NOX MASS GRAMS	2.71	1.59	2.16	1.54
THC GRAMS/MI	.53	.05	.07	.07
CO GRAMS/MI	3.42	.00	.02	.01
CO2 GRAMS/MI	499.8	489.2	423.8	474.5
NOX GRAMS/MI	.75	.41	.60	.39
FUEL ECONOMY IN MPG	9.75	9.91	11.63	10.95
RUN TIME SECONDS	585.	867.	585.	867.
MEASURED DISTANCE MI	3.61	7.51	3.60	7.50
SCF, DRY	.967	.972	.970	.974
DFC, WET (DRY)		.914(.905)		.922(.913)
TOT VOL (SCM) / SAM BLR (SCM)		285.9/ .00		286.1/ .00

COMPOSITE RESULTS

TEST NUMBER 82FBL1-01
BAROMETER MM HG 747.8
HUMIDITY G/KG 6.2
TEMPERATURE DEG C 24.4

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	473.5	(469.2)
FUEL ECONOMY MPG	10.38	(10.48)
HYDROCARBONS (THC) G/MI	.16	(.16)
CARBON MONOXIDE G/MI	.72	(.72)
OXIDES OF NITROGEN G/MI	.53	(.53)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B2FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 747.01 MM HG(29.41 IN HG)
RELATIVE HUMIDITY 27. PCT
BAG RESULTS

VEHICLE NO.95
DATE 1/ 8/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 5.3 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KM(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .85

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	810.3 (31.9)
BLOWER INLET P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	61238.
TOT FLOW STD. CU. METRES(SCF)	114.4 (4038.)
THC SAMPLE METER/RANGE/PPM	8.5/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.0/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	.3/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	83.1/ 1/1.5380
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441
NOX SAMPLE METER/RANGE/PPM	73.7/ 1/ 18.5
NOX BCKGRD METER/RANGE/PPM	.2/ 1/ .1
DILUTION FACTOR	7.82
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.4995
NOX CONCENTRATION PPM	18.4
THC MASS GRAMS	.30
CO MASS GRAMS	.04
CO2 MASS GRAMS	3139.8
NOX MASS GRAMS	3.43
RUN TIME	765.
DFC, WET (DRY)	.872 (.865)
SCF, WET (DRY)	1.000 (.965)
VOL (SCM)	114.4
SAM BLR (SCM)	.00
MI (MEASURED)	10.26

TEST NUMBER,	B2FBL1-01
BAROMETER,	747.0
HUMIDITY,	5.3
TEMPERATURE,	25.0
CARBON DIOXIDE,	306.0
FUEL ECONOMY,	16.1

HYDROCARBONS, (THC)	6/MI	.03
CARBON MONOXIDE,	6/MI	.00
OXIDES OF NITROGEN,	6/MI	.33

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B2FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(382. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/ 8/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 5.4 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .85

BAROMETER 746.76 MM HG(29.40 IN HG)
RELATIVE HUMIDITY 27. PCT
BAG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET P MM. H2O(IN. H2O)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	47786.
TOT FLOW STD. CU. METRES(SCF)	89.5 (3159.)
THC SAMPLE METER/RANGE/PPM	10.7/ 2/ 11.
THC BCKGRD METER/RANGE/PPM	7.0/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	2.2/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	83.5/ 14/ .7251
CO2 BCKGRD METER/RANGE/PCT	13.0/ 14/ .0438
NOX SAMPLE METER/RANGE/PPM	37.2/ 1/ 9.4
NOX BCKGRD METER/RANGE/PPM	.4/ 1/ .1
DILUTION FACTOR	16.57
THC CONCENTRATION PPM	4.
CO CONCENTRATION PPM	2.
CO2 CONCENTRATION PCT	.6848
NOX CONCENTRATION PPM	9.3
THC MASS GRAMS	.41
CO MASS GRAMS	.23
CO2 MASS GRAMS	1120.4
NOX MASS GRAMS	1.35
RUN TIME SECONDS	597.
DFC, WET (DRY)	.940 (.932)
SCF, WET (DRY)	1.000 (.979)
VOL (SCH)	89.5
SAM BLR (SCH)	.00
MI (MEASURED)	1.25

TEST NUMBER,	B2FBL1-01
BAROMETER, MM HG	746.8
HUMIDITY, G/KG	5.4
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	899.1
FUEL ECONOMY, MPG	5.5
HYDROCARBONS, (THC) G/MI	.33
CARBON MONOXIDE, G/MI	.18
OXIDES OF NITROGEN, G/MI	1.08

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FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2FJM1-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 12/26/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1161-F
ODOMETER 2. KM(1. MILES)

BAROMETER 746.51 MM HG(29.39 IN HG)
RELATIVE HUMIDITY 36. PCT

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 6.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .87

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)	41.1 (106.0)	41.7 (107.0)	41.1 (106.0)
BLOWER REVOLUTIONS	40582.	69584.	40481.	69517.
TOT FLOW STD. CL. METRES(SCF)	75.9 (2680.)	130.3 (4599.)	75.7 (2673.)	130.1 (4595.)
THC SAMPLE METER/RANGE/PPM	33.0/ 2/ 33.	7.8/ 2/ 8.	8.7/ 2/ 9.	8.0/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.7/ 2/ 8.	7.7/ 2/ 8.	7.4/ 2/ 7.	7.5/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	67.0/ 13/ 160.	.9/ 12/ 1.	1.4/ 12/ 1.	.7/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.2/ 13/ 0.	.1/ 12/ 0.	.1/ 12/ 0.	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	72.6/ 1/1.3385	88.9/ 14/ .8411	62.2/ 1/1.1429	88.0/ 14/ .8204
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459	13.4/ 14/ .0454	2.5/ 1/ .0441	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	85.9/ 1/ 21.5	20.8/ 1/ 5.3	69.6/ 1/ 17.4	22.1/ 1/ 5.6
NOX BCKGRD METER/RANGE/PPM	.4/ 1/ .1	.1/ 1/ .0	.2/ 1/ .1	.1/ 1/ .0
DILUTION FACTOR	8.87	14.29	10.52	14.65
THC CONCENTRATION PPM	26.	1.	2.	1.
CO CONCENTRATION PPM	152.	1.	1.	1.
CO2 CONCENTRATION PCT	1.2978	.7989	1.1030	.7785
NOX CONCENTRATION PPM	21.4	5.3	17.4	5.6
THC MASS GRAMS	2.21	.09	.17	.15
CO MASS GRAMS	13.42	.12	.11	.09
CO2 MASS GRAMS	1803.3	1905.1	1528.7	1854.7
NOX MASS GRAMS	2.71	1.15	2.20	1.22
THC GRAMS/MI	.61	.02	.05	.04
CO GRAMS/MI	3.71	.03	.03	.02
CO2 GRAMS/MI	498.4	488.0	424.8	474.6
NOX GRAMS/MI	.75	.29	.61	.31
FUEL ECONOMY IN MPG	9.76	9.94	11.60	10.94
RUN TIME	505.	867.	505.	867.
MEASURED DISTANCE	3.62	7.52	3.60	7.51
SCF, DRY	.966	.971	.969	.973
DFC, WET (DRY)		.914(.904)		.922(.911)
TOT VOL (SCM) / SAM BLR (SCM)		206.2/ .00		205.8/ .00

COMPOSITE RESULTS

TEST NUMBER B2FJM1-02
BAROMETER MM HG 746.5
HUMIDITY G/KG 6.3
TEMPERATURE DEG C 22.8

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	472.9	(468.9)
FUEL ECONOMY MPG	10.40	(10.48)
HYDROCARBONS (THC) G/MI	.15	(.16)
CARBON MONOXIDE G/MI	.79	(.79)
OXIDES OF NITROGEN G/MI	.47	(.48)

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PROJECT 88-2346-001

TEST NO. B2FJM1-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 745.74 MM HG(29.36 IN HG)
RELATIVE HUMIDITY 35. PCT
BAG RESULTS

VEHICLE NO.95
DATE 12/26/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 6.8 GM/KG

TEST WEIGHT 1928. KG(4258. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1161-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .89

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	810.3 (31.9)
BLOWER INLET P MM. H2O(IN. H2O)	805.2 (31.7)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	61313.
TOT FLOW STD. CU. METRES(SCF)	114.4 (4038.)
THC SAMPLE METER/RANGE/PPM	7.7/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.5/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	1.2/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.2/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	84.1/ 1/1.5571
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459
NOX SAMPLE METER/RANGE/PPM	30.1/ 2/ 30.1
NOX BCKGRD METER/RANGE/PPM	.1/ 2/ .1
DILUTION FACTOR	7.72
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	1.
CO2 CONCENTRATION PCT	1.5172
NOX CONCENTRATION PPM	30.1
THC MASS GRAMS	.15
CO MASS GRAMS	.13
CO2 MASS GRAMS	3176.3
NOX MASS GRAMS	5.83
RUN TIME SECONDS	765.
DFC, WET (DRY)	.871 (.861)
SCF, WET (DRY)	1.000 (.962)
VOL (SCM)	114.4
SAM BLR (SCM)	.00
MI (MEASURED)	10.26

TEST NUMBER,	B2FJM1-02
BAROMETER, MM HG	745.7
HUMIDITY, G/KG	6.8
TEMPERATURE, DEG C	24.4
CARBON DIOXIDE, G/MI	309.5
FUEL ECONOMY, MPG	15.9
HYDROCARBONS, (THC) G/MI	.01
CARBON MONOXIDE, G/MI	.01
OXIDES OF NITROGEN, G/MI	.57

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B2FJM1-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 745.49 MM HG(29.35 IN HG)
RELATIVE HUMIDITY 37. PCT
BAG RESULTS

TEST CYCLE

BLOWER DIF P MM. H2O(IN. H2O)
BLOWER INLET P MM. H2O(IN. H2O)
BLOWER INLET TEMP. DEG. C(DEG. F)
BLOWER REVOLUTIONS
TOT FLOW STD. CU. METRES(SCF)
THC SAMPLE METER/RANGE/PPM
THC BCKGRD METER/RANGE/PPM
CO SAMPLE METER/RANGE/PPM
CO BCKGRD METER/RANGE/PPM
CO2 SAMPLE METER/RANGE/PCT
CO2 BCKGRD METER/RANGE/PCT
NOX SAMPLE METER/RANGE/PPM
NOX BCKGRD METER/RANGE/PPM
DILUTION FACTOR
THC CONCENTRATION PPM
CO CONCENTRATION PPM
CO2 CONCENTRATION PCT
NOX CONCENTRATION PPM
THC MASS GRAMS
CO MASS GRAMS
CO2 MASS GRAMS
NOX MASS GRAMS
RUN TIME SECONDS
DFC, WET (DRY)
SCF, WET (DRY)
VOL (SCM)
SAM BLR (SCM)
MI (MEASURED)

VEHICLE NO.95
DATE 12/26/90
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 6.7 GM/KG

NYCC

789.9 (31.1)
787.4 (31.0)
41.1 (106.0)
47927.
89.7 (3167.)
8.9/ 2/ 9.
7.4/ 2/ 7.
.4/ 12/ 0.
.1/ 12/ 0.
83.0/ 14/ .7153
13.4/ 14/ .0454
25.2/ 1/ 6.4
.1/ 1/ .0
16.80
2.
0.
.6726
6.4
.19
.03
1104.3
.96
598.
.940 (.929)
1.000 (.976)
89.7
.00
1.19

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1161-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424 -
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .88

TEST NUMBER,
BAROMETER, MM HG
HUMIDITY, G/KG
TEMPERATURE, DEG C
CARBON DIOXIDE, G/MI
FUEL ECONOMY, MPG

B2FJM1-02
745.5
6.7
23.3
930.2
5.3

HYDROCARBONS, (THC) G/MI
CARBON MONOXIDE, G/MI
OXIDES OF NITROGEN, G/MI

.16
.03
.81

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B2FJM1-03 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302 CID) V-8
TRANSMISSION A4

VEHICLE NO. 95
DATE 1/ 3/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 3.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)

BAROMETER 749.81 MM HG(29.52 IN HG)

RELATIVE HUMIDITY 34. PCT

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)

ABS. HUMIDITY 6.4 GM/KG

NOX HUMIDITY CORRECTION FACTOR .88

BAG RESULTS

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	41.1 (106.0)	42.2 (108.0)	41.1 (106.0)
BLOWER REVOLUTIONS	48544.	69513.	48474.	69425.
TOT FLOW STD. CU. METRES(SCF)	76.0 (2685.)	130.8 (4617.)	76.0 (2683.)	130.6 (4611.)
THC SAMPLE METER/RANGE/PPM	31.0/ 2/ 31.	7.4/ 2/ 7.	7.3/ 2/ 7.	6.4/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	8.2/ 2/ 9.	7.2/ 2/ 7.	5.3/ 2/ 6.	6.2/ 2/ 6.
CO SAMPLE METER/RANGE/PPM	74.5/ 13/ 180.	.9/ 12/ 1.	2.2/ 12/ 2.	.9/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.1/ 13/ 0.	.0/ 12/ 0.	.5/ 12/ 1.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	72.4/ 1/1.3347	88.2/ 14/ .8250	61.2/ 1/1.1242	87.2/ 14/ .8026
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459	12.8/ 14/ .0430	2.5/ 1/ .0441	12.6/ 14/ .0422
NOX SAMPLE METER/RANGE/PPM	79.7/ 1/ 20.0	24.6/ 1/ 6.2	71.7/ 1/ 18.0	22.4/ 1/ 5.7
NOX BCKGRD METER/RANGE/PPM	.6/ 1/ .2	.7/ 1/ .2	.4/ 1/ .1	.3/ 1/ .1
DILUTION FACTOR	8.88	14.57	10.70	14.98
THC CONCENTRATION PPM	24.	1.	2.	1.
CO CONCENTRATION PPM	171.	1.	2.	1.
CO2 CONCENTRATION PCT	1.2940	.7849	1.0842	.7631
NOX CONCENTRATION PPM	19.8	6.1	17.9	5.6
THC MASS GRAMS	2.01	.10	.13	.09
CO MASS GRAMS	15.13	.13	.15	.13
CO2 MASS GRAMS	1801.5	1879.1	1308.2	1824.5
NOX MASS GRAMS	2.52	1.33	2.27	1.23
THC GRAMS/MI	.56	.03	.04	.02
CO GRAMS/MI	4.21	.03	.04	.03
CO2 GRAMS/MI	501.3	481.8	418.7	469.0
NOX GRAMS/MI	.70	.34	.63	.32
FUEL ECONOMY IN MPG	9.69	9.97	10.23	11.77
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.59	7.49	3.60	7.49
SCF, DRY	.966	.972	.975	.975
DFC, WET (DRY)		.915(.905)		.923(.913)
TOT VOL (SCM) / SAM BLR (SCM)		206.8/ .00		206.6/ .00

COMPOSITE RESULTS

TEST NUMBER B2FJM1-03
BAROMETER MM HG 749.8
HUMIDITY G/KG 6.4
TEMPERATURE DEG C 23.9

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	468.6	(464.8)
FUEL ECONOMY MPG	10.49	(10.57)
HYDROCARBONS (THC) G/MI	.14	(.14)
CARBON MONOXIDE G/MI	.90	(.90)
OXIDES OF NITROGEN G/MI	.49	(.49)

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HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 08-2346-001

TEST NO. B2FJM1-03 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/ 3/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 6.2 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .87

BAROMETER 750.32 MM HG(29.54 IN HG)
RELATIVE HUMIDITY 36. PCT
BAG RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	810.3 (31.9)
BLOWER INLET P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	61266.
TOT FLOW STD. CU. METRES(SCF)	115.0 (4060.)
THC SAMPLE METER/RANGE/PPM	5.2/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	2.0/ 2/ 6.
CO SAMPLE METER/RANGE/PPM	1.4/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.2/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	31.5/ 1/1.5074
CO2 BCKGRD METER/RANGE/PCT	2.2/ 1/ .0388
NOX SAMPLE METER/RANGE/PPM	81.8/ 1/ 20.5
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	7.98
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	1.
CO2 CONCENTRATION PCT	1.4734
NOX CONCENTRATION PPM	20.4
THC MASS GRAMS	.12
CO MASS GRAMS	.16
CO2 MASS GRAMS	3101.9
NOX MASS GRAMS	3.91
RUN TIME SECONDS	765.
DFC, WET (DRY)	.875 (.365)
SCF, WET (DRY)	1.000 (.963)
VOL (SCM)	115.0
SAM BLR (SCM)	.00
MI (MEASURED)	10.19

TEST NUMBER,	B2FJM1-03
BAROMETER, MM HG	750.3
HUMIDITY, G/KG	6.2
TEMPERATURE, DEG C	22.8
CARBON DIOXIDE, G/MI	304.4
FUEL ECONOMY, MPG	16.2

HYDROCARBONS, (THC) G/MI	.01
CARBON MONOXIDE, G/MI	.02
OXIDES OF NITROGEN, G/MI	.38

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 NYCC - VEHICLE EMISSIONS RESULTS -
 PROJECT 08-2346-001

TEST NO. B2FJM1-03 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

BAROMETER 750.06 MM HG(29.53 IN HG)
 RELATIVE HUMIDITY 33. PCT

BAG RESULTS

TEST CYCLE

BLOWER DIF P MM. H2O(IN. H2O)
 BLOWER INLET P MM. H2O(IN. H2O)
 BLOWER INLET TEMP. DEG. C(DEG. F)
 BLOWER REVOLUTIONS
 TOT FLOW STD. CU. METRES(SCF)
 THC SAMPLE METER/RANGE/PPM
 THC BCKGRD METER/RANGE/PPM
 CO SAMPLE METER/RANGE/PPM
 CO BCKGRD METER/RANGE/PPM
 CO2 SAMPLE METER/RANGE/PCT
 CO2 BCKGRD METER/RANGE/PCT
 NOX SAMPLE METER/RANGE/PPM
 NOX BCKGRD METER/RANGE/PPM
 DILUTION FACTOR
 THC CONCENTRATION PPM
 CO CONCENTRATION PPM
 CO2 CONCENTRATION PCT
 NOX CONCENTRATION PPM
 THC MASS GRAMS
 CO MASS GRAMS
 CO2 MASS GRAMS
 NOX MASS GRAMS
 RUN TIME SECONDS
 SCF, WET (DRY)
 SCF, WET (DRY)
 VOL (SCM)
 SAM BLR (SCM)
 MI (MEASURED)

VEHICLE NO.95
 DATE 1/ 3/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
 ABS. HUMIDITY 6.5 GM/KG

NYCC

800.1 (31.5)
 795.0 (31.3)
 41.7 (107.0)
 47752.
 89.8 (3170.)
 7.1/ 2/ 7.
 6.1/ 2/ 6.
 .5/ 12/ 1.
 .4/ 12/ 0.
 32.4/ 14/ .7036
 12.5/ 14/ .0418
 27.9/ 1/ 7.1
 .2/ 1/ .1
 17.08
 1.
 0.
 .6642
 7.0
 .14
 .01
 1091.6
 1.06
 596.
 .941 (.932)
 1.000 (.978)
 29.8
 .00
 1.18

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1179-F
 ODOMETER 2. KM(1. MILES)
 C = .449 H = .127 O = .424
 FUEL DENSITY = 6.61
 NOX HUMIDITY CORRECTION FACTOR .88

TEST NUMBER,		B2FJM1-03
BAROMETER,	MM HG	750.1
HUMIDITY,	G/KG	6.5
TEMPERATURE,	DEG C	25.0
CARBON DIOXIDE,	G/MI	922.8
FUEL ECONOMY,	MPG	5.3
HYDROCARBONS, (THC)	G/MI	.11
CARBON MONOXIDE,	G/MI	.01
OXIDES OF NITROGEN,	G/MI	.89

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FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 82FD-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/23/91
SAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)

BAROMETER 742.95 MM HG(29.25 IN HG)
RELATIVE HUMIDITY 36. PCT
SAG RESULTS

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 6.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .87

SAG NUMBER
DESCRIPTION

1	2	3	4
COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED

BLOWER DIF P MM. H2O(IN. H2O)	787.4 (31.0)	795.0 (31.3)	787.4 (31.0)	789.9 (31.1)
BLOWER INLET P MM. H2O(IN. H2O)	784.9 (30.9)	789.9 (31.1)	784.9 (30.9)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)	41.1 (106.0)	41.7 (107.0)	40.6 (105.0)
BLOWER REVOLUTIONS	40496.	69498.	40444.	69440.
TOT FLOW STD. CU. METRES(SCF)	75.4 (2661.)	129.5 (4572.)	75.3 (2660.)	129.6 (4575.)
THC SAMPLE METER/RANGE/PPM	32.5/ 2/ 32.	7.8/ 2/ 8.	8.3/ 2/ 8.	7.8/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.9/ 2/ 8.	7.8/ 2/ 8.	7.7/ 2/ 8.	7.7/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	54.3/ 13/ 125.	.7/ 12/ 1.	.6/ 12/ 1.	.6/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.4/ 13/ 1.	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	74.5/ 1/1.3744	89.0/ 14/ .8434	62.7/ 1/1.1523	88.2/ 14/ .8250
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459	13.6/ 14/ .0462	2.6/ 1/ .0459	13.5/ 14/ .0458
NOX SAMPLE METER/RANGE/PPM	47.6/ 1/ 11.9	22.6/ 1/ 5.7	60.0/ 1/ 15.0	21.6/ 1/ 5.5
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1	.4/ 1/ .1	.5/ 1/ .1	.5/ 1/ .1
DILUTION FACTOR	8.66	14.25	10.44	14.57
THC CONCENTRATION PPM	25.	1.	1.	1.
CO CONCENTRATION PPM	121.	1.	1.	1.
CO2 CONCENTRATION PCT	1.3338	.6005	1.1108	.7823
NOX CONCENTRATION PPM	11.9	5.7	14.9	5.4
THC MASS GRAMS	2.14	.08	.11	.09
CO MASS GRAMS	10.58	.10	.25	.09
CO2 MASS GRAMS	1840.4	1897.7	1532.2	1855.9
NOX MASS GRAMS	1.50	1.22	1.88	1.17
THC GRAMS/MI	.59	.02	.03	.02
CO GRAMS/MI	2.94	.03	.01	.02
CO2 GRAMS/MI	511.0	486.4	424.9	474.3
NOX GRAMS/MI	.42	.31	.52	.30
FUEL ECONOMY IN MPG	9.55	9.84	10.14	10.39
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.60	7.50	3.61	7.52
SCF. DRY	.965	.971	.969	.974
DFC. WET (DRY)		.913(.903)		.921(.911)
TOT VOL (SCM) / SAM BLR (SCM)		204.9/ .20		204.9/ .20

COMPOSITE RESULTS

TEST NUMBER 82FD-01
BAROMETER MM HG 743.0
HUMIDITY G/KG 6.3
TEMPERATURE DEG C 22.8

	3-BAG	(4-BAG)
CARBON DIOXIDE G/MI	474.6	(471.1)
FUEL ECONOMY MPG	10.36	(10.44)
HYDROCARBONS (THC) G/MI	.14	(.14)
CARBON MONOXIDE G/MI	.62	(.62)
OXIDES OF NITROGEN G/MI	.39	(.39)

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PROJECT 88-2346-001

TEST NO. B2FD-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/23/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 7.3 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .90

BAROMETER 742.70 MM HG(29.24 IN HG)
RELATIVE HUMIDITY 36. PCT
BAG RESULTS
TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	61188.
TOT FLOW STD. CU. METRES(SCF)	113.8 (4017.)
THC SAMPLE METER/RANGE/PPM	8.0/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.6/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	.4/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	84.8/ 1/1.5705
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476
NOX SAMPLE METER/RANGE/PPM	25.0/ 2/ 25.1
NOX BCKGRD METER/RANGE/PPM	.1/ 2/ .1
DILUTION FACTOR	7.66
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.5291
NOX CONCENTRATION PPM	25.0
THC MASS GRAMS	.18
CO MASS GRAMS	.05
CO2 MASS GRAMS	3184.6
NOX MASS GRAMS	4.88
RUN TIME SECONDS	765.
DFC. WET (DRY)	.869 (.859)
SCF. WET (DRY)	1.000 (.962)
VOL (SCM)	113.8
SAM BLR (SCM)	.00
MI (MEASURED)	10.27

TEST NUMBER.	B2FD-01
BAROMETER, MM HG	742.7
HUMIDITY, G/KG	7.3
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	310.1
FUEL ECONOMY, MPG	15.9
HYDROCARBONS. (THC) G/MI	.02
CARBON MONOXIDE, G/MI	.00
OXIDES OF NITROGEN, G/MI	.48

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 PROJECT 88-2346-001

TEST NO. 82FD-01 RUN
 VEHICLE MODEL 69 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

BAROMETER 742.44 MM HG(29.23 IN HG)
 RELATIVE HUMIDITY 37. PCT
 BAG RESULTS

VEHICLE NO.95
 DATE 1/23/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
 ABS. HUMIDITY 6.7 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1179.F
 ODOMETER 2. KM(1. MILES)
 C = .449 H = .127 G = .424
 FUEL DENSITY = 6.61
 NOX HUMIDITY CORRECTION FACTOR .88

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.1 (106.0)
BLOWER REVOLUTIONS	47724.
TOT FLOW STD. CU. METRES(SCF)	88.8 (3135.)
THC SAMPLE METER/RANGE/PPM	7.9/ 2/ 8.
THC BCKGRD METER/RANGE/PPM	7.6/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	1.1/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.4/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	82.8/ 14/ .7114
CO2 BCKGRD METER/RANGE/PCT	13.7/ 14/ .0466
NOX SAMPLE METER/RANGE/PPM	27.1/ 1/ 6.9
NOX BCKGRD METER/RANGE/PPM	.4/ 1/ .1
DILUTION FACTOR	16.90
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	1.
CO2 CONCENTRATION PCT	.5675
NOX CONCENTRATION PPM	6.8
THC MASS GRAMS	.07
CO MASS GRAMS	.07
CO2 MASS GRAMS	1085.3
NOX MASS GRAMS	1.02
RUN TIME SECONDS	597.
DFC, WET (DRY)	.941 (.930)
SCF, WET (DRY)	1.000 (.976)
VOL (SCM)	88.8
SAW BLR (SCM)	.00
MI (MEASURED)	1.19

TEST NUMBER.	82FD-01
BAROMETER, MM HG	742.4
HUMIDITY, G/KG	6.7
TEMPERATURE, DEG C	23.3
CARBON DIOXIDE, G/MI	913.6
FUEL ECONOMY, MPG	5.4
HYDROCARBONS. (THC) G/MI	.06
CARBON MONOXIDE, G/MI	.06
OXIDES OF NITROGEN, G/MI	.05

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PROJECT 88-2346-001

TEST NO. B2FD-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO. 95
DATE 1/24/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KM(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 2. KM(1. MILES)

BAROMETER 746.51 MM HG(29.39 IN HG)
RELATIVE HUMIDITY 38. PCT
BAG RESULTS

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 7.0 GM/KG

NOX HUMIDITY CORRECTION FACTOR .89

BAG NUMBER
DESCRIPTION

1	2	3	4
COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
795.0 (31.3)	782.3 (30.8)	795.0 (31.3)	800.1 (31.5)
789.9 (31.1)	800.1 (31.5)	789.9 (31.1)	789.9 (31.1)
41.1 (106.0)	38.9 (102.0)	41.7 (107.0)	38.9 (102.0)
48520.	69497.	48475.	69437.
75.9 (2680.)	130.7 (4613.)	75.7 (2674.)	130.6 (4612.)
32.3/ 2/ 32.	5.8/ 2/ 6.	6.1/ 2/ 6.	5.3/ 2/ 5.
6.1/ 2/ 6.	5.7/ 2/ 6.	5.5/ 2/ 5.	5.3/ 2/ 5.
60.2/ 13/ 142.	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
.0/ 13/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
72.6/ 1/1.3385	88.3/ 14/ .8273	62.1/ 1/1.1411	87.5/ 14/ .8092
2.4/ 1/ .0423	12.5/ 14/ .0418	2.4/ 1/ .0423	12.3/ 14/ .0411
48.9/ 1/ 12.3	21.6/ 1/ 5.5	53.3/ 1/ 13.4	22.6/ 1/ 5.7
.0/ 1/ .0	.0/ 1/ .0	.0/ 1/ .0	.1/ 1/ .0
8.88	14.54	10.54	14.86
27.	0.	1.	0.
136.	0.	0.	0.
1.3009	.7883	1.1028	.7709
12.3	5.5	13.4	5.7
2.27	.07	.09	.05
11.99	.00	.00	.00
1800.0	1885.6	1529.2	1843.3
1.59	1.23	1.73	1.28
.53	.02	.03	.01
3.33	.00	.00	.00
502.9	485.3	423.8	472.6
.44	.32	.48	.33
9.69	9.93	10.16	10.43
505.	867.	505.	867.
3.60	7.48	3.61	7.51
.965	.971	.969	.974
	.915(.904)		.923(.911)
	206.6/ .00		206.3/ .00

COMPOSITE RESULTS

TEST NUMBER B2FD-02
BAROMETER MM HG 746.5
HUMIDITY G/KG 7.0
TEMPERATURE DEG C 23.9

		3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	472.1	(468.3)
FUEL ECONOMY	MPG	10.42	(10.50)
HYDROCARBONS (THC)	G/MI	.15	(.15)
CARBON MONOXIDE	G/MI	.69	(.69)
OXIDES OF NITROGEN	G/MI	.39	(.39)

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HFET - VEHICLE EMISSIONS RESULTS -

PROJECT 88-2346-001

TEST NO. B2FD-02 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

BAROMETER 746.76 MM HG(29.40 IN HG)

RELATIVE HUMIDITY 35. PCT

BAG RESULTS

TEST CYCLE

BLOWER DIF P MM. H2O(IN. H2O)
 BLOWER INLET P MM. H2O(IN. H2O)
 BLOWER INLET TEMP. DEG. C(DEG. F)
 BLOWER REVOLUTIONS
 TOT FLOW STD. CU. METRES(SCF)
 THC SAMPLE METER/RANGE/PPM
 THC BCKGRD METER/RANGE/PPM
 CO SAMPLE METER/RANGE/PPM
 CO BCKGRD METER/RANGE/PPM
 CO2 SAMPLE METER/RANGE/PCT
 CO2 BCKGRD METER/RANGE/PCT
 NOX SAMPLE METER/RANGE/PPM
 NOX BCKGRD METER/RANGE/PPM
 DILUTION FACTOR
 THC CONCENTRATION PPM
 CO CONCENTRATION PPM
 CO2 CONCENTRATION PCT
 NOX CONCENTRATION PPM
 THC MASS GRAMS
 CO MASS GRAMS
 CO2 MASS GRAMS
 NOX MASS GRAMS
 RUN TIME SECONDS
 DFC, WET (DRY)
 SCF, WET (DRY)
 VOL (SCM)
 SAM BLR (SCM)
 MI (MEASURED)

VEHICLE NO.95
 DATE 1/24/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
 ABS. HUMIDITY 6.8 GM/KG

HFET

818.3 (31.9)
 808.1 (31.5)
 41.7 (107.0)
 61253.
 114.5 (4042.)
 5.5/ 2/ 5.
 5.3/ 2/ 5.
 .0/ 12/ 0.
 .0/ 12/ 0.
 83.2/ 1/1.5399
 2.6/ 1/ .0459
 48.4/ 2/ 48.4
 .3/ 2/ .3
 7.81
 1.
 0.
 1.4999
 48.2
 .11
 .00
 3143.4
 7.79
 765.
 .872 (.862)
 1.000 (.963)
 114.5
 .00
 10.27

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1179-F
 ODOMETER 2. KM(1. MILES)
 C = .449 H = .127 O = .424
 FUEL DENSITY = 6.61
 NOX HUMIDITY CORRECTION FACTOR .89

TEST NUMBER,		B2FD-02
BAROMETER,	MM HG	746.8
HUMIDITY,	G/KG	6.8
TEMPERATURE,	DEG C	24.4
CARBON DIOXIDE,	G/MI	306.2
FUEL ECONOMY,	MPG	16.1
HYDROCARBONS, (THC)	G/MI	.01
CARBON MONOXIDE,	G/MI	.00
OXIDES OF NITROGEN,	G/MI	.76

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PROJECT 08-2346-001

TEST NO. B2FD-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 747.01 MM HG(29.41 IN HG)
RELATIVE HUMIDITY 35. PCT
BAG RESULTS

VEHICLE NO. 95
DATE 1/24/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 6.8 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179,F
ODOMETER 2. KM(1. MILES)
C = .449 H = .127 O = .424
FUEL DENSITY = 6.61
NOX HUMIDITY CORRECTION FACTOR .89

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	789.9 (31.1)
BLOWER INLET P MM. H2O(IN. H2O)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.1 (106.0)
BLOWER REVOLUTIONS	47688.
TOT FLOW STD. CU. METRES(SCF)	89.4 (3157.)
THC SAMPLE METER/RANGE/PPM	5.6/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	5.1/ 2/ 5.
CO SAMPLE METER/RANGE/PPM	.0/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	82.0/ 14/ .6960
CO2 BCKGRD METER/RANGE/PCT	12.2/ 14/ .0407
NOX SAMPLE METER/RANGE/PPM	26.7/ 1/ 6.8
NOX BCKGRD METER/RANGE/PPM	.1/ 1/ .0
DILUTION FACTOR	17.28
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	.6576
NOX CONCENTRATION PPM	6.7
THC MASS GRAMS	.00
CO MASS GRAMS	.00
CO2 MASS GRAMS	1076.6
NOX MASS GRAMS	1.02
RUN TIME	596.
DFC, WET (DRY)	.942 (.931)
SCF, WET (DRY)	1.000 (.977)
VOL (SCM)	89.4
SAM BLR (SCM)	.00
MI (MEASURED)	1.19

TEST NUMBER,	B2FD-02
BAROMETER, MM HG	747.0
HUMIDITY, G/KG	6.8
TEMPERATURE, DEG C	24.4
CARBON DIOXIDE, G/MI	906.5
FUEL ECONOMY, MPG	5.4
HYDROCARBONS, (THC) G/MI	.07
CARBON MONOXIDE, G/MI	.00
OXIDES OF NITROGEN, G/MI	.86

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PROJECT 08-3381-001

TEST NO. B2FHC-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 5/ 2/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 0. KM(0. MILES)

BAROMETER 738.12 MM HG(29.06 IN HG)

RELATIVE HUMIDITY 65. PCT

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)

ABS. HUMIDITY 11.7 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.03

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)	43.3 (110.0)	44.4 (112.0)	43.9 (111.0)
BLOWER REVOLUTIONS	39951.	68687.	39943.	68644.
TOT FLOW STD. CU. METRES(SCF)	71.0 (2507.)	122.5 (4325.)	71.0 (2507.)	122.2 (4315.)
THC SAMPLE METER/RANGE/PPM	16.3/ 2/ 16.	12.2/ 2/ 12.	13.3/ 2/ 13.	12.5/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	10.3/ 2/ 10.	10.8/ 2/ 11.	11.1/ 2/ 11.	11.1/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	51.2/ 12/ 51.	.6/ 12/ 1.	13.1/ 12/ 13.	1.6/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.5/ 12/ 1.	.5/ 12/ 1.	1.8/ 12/ 2.	1.6/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	80.3/ 1/1.4848	91.7/ 14/ .9091	67.8/ 1/1.2539	91.3/ 14/ .8990
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0455	12.8/ 14/ .0430	2.5/ 1/ .0437	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	62.9/ 1/ 15.8	29.1/ 1/ 7.4	62.5/ 1/ 15.7	29.0/ 1/ 7.3
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1	.3/ 1/ .1	.6/ 1/ .2	.5/ 1/ .1
DILUTION FACTOR	7.99	13.08	9.48	13.23
THC CONCENTRATION PPM	7.	2.	3.	2.
CO CONCENTRATION PPM	47.	0.	11.	0.
CO2 CONCENTRATION PCT	1.4450	.8694	1.2148	.8571
NOX CONCENTRATION PPM	15.7	7.3	15.5	7.2
THC MASS GRAMS	.59	.31	.27	.31
CO MASS GRAMS	3.91	.02	.89	.01
CO2 MASS GRAMS	1878.4	1949.7	1578.9	1917.5
NOX MASS GRAMS	2.20	1.76	2.18	1.74
THC GRAMS/MI	.17	.08	.08	.08
CO GRAMS/MI	1.09	.00	.25	.00
CO2 GRAMS/MI	523.7	504.7	439.3	495.2
NOX GRAMS/MI	.61	.46	.61	.45
FUEL ECONOMY IN MPG	9.04	9.23	10.81	10.15
RUN TIME SECONDS	504.	868.	504.	868.
MEASURED DISTANCE MI	3.59	7.45	3.59	7.47
SCF, DRY	.953	.959	.957	.961
DPC, WET (DRY)		.906(.887)		.913(.894)
TOT VOL (SCM) / SAM BLR (SCM)		193.5/ .00		193.2/ .00

COMPOSITE RESULTS

TEST NUMBER B2FHC-01
BAROMETER MM HG 738.1
HUMIDITY G/KG 11.7
TEMPERATURE DEG C 22.8

CARBON DIOXIDE	G/MI	3-BAG	(4-BAG)
FUEL ECONOMY	MPG	490.7	(487.9)
HYDROCARBONS (THC)	G/MI	9.68	(9.73)
CARBON MONOXIDE	G/MI	.10	(.10)
OXIDES OF NITROGEN	G/MI	.30	(.30)
		.53	(.53)

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PROJECT 08-3381-001

TEST NO. B2FHC-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 737.87 MM HG(29.05 IN HG)
RELATIVE HUMIDITY 58. PCT
BAG RESULTS

VEHICLE NO.95
DATE 5/ 2/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 10.8 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 0. KM(0. MILES)
C = .436 H = .128 O = .437
FUEL DENSITY = 6.57
NOX HUMIDITY CORRECTION FACTOR 1.00

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)
BLOWER REVOLUTIONS	60605.
TOT FLOW STD. CU. METRES(SCF)	107.7 (3802.)
THC SAMPLE METER/RANGE/PPM	12.1/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	11.5/ 2/ 11.
CO SAMPLE METER/RANGE/PPM	1.7/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	1.6/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	89.1/ 1/1.6526
CO2 BCKGRD METER/RANGE/PCT	2.4/ 1/ .0420
NOX SAMPLE METER/RANGE/PPM	65.5/ 1/ 16.4
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	7.20
THC CONCENTRATION PPM	2.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.6165
NOX CONCENTRATION PPM	16.3
THC MASS GRAMS	.27
CO MASS GRAMS	.03
CO2 MASS GRAMS	3186.3
NOX MASS GRAMS	3.36
RUN TIME SECONDS	766.
DPC, WET (DRY)	.861 (.845)
SCF, WET (DRY)	1.000 (.952)
VOL (SCH)	107.7
SAM BLR (SCH)	.00
MI (MEASURED)	10.22

TEST NUMBER,	B2FHC-01
BAROMETER, MM HG	737.9
HUMIDITY, G/KG	10.8
TEMPERATURE, DEG C	23.3
CARBON DIOXIDE, G/MI	311.7
FUEL ECONOMY, MPG	15.3

HYDROCARBONS, (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.00
OXIDES OF NITROGEN, G/MI	.33

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PROJECT 08-3381-001

TEST NO. B2FHC RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 737.62 MM HG(29.04 IN HG)
RELATIVE HUMIDITY 62. PCT
BAG RESULTS

VEHICLE NO.95
DATE 5/ 2/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 11.0 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 0. KM(0. MILES)
C = .436 H = .128 O = .437
FUEL DENSITY = 6.57
NOX HUMIDITY CORRECTION FACTOR 1.01

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	43.3 (110.0)
BLOWER REVOLUTIONS	47477.
TOT FLOW STD. CU. METRES(SCF)	84.6 (2987.)
THC SAMPLE METER/RANGE/PPM	12.8/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	10.4/ 2/ 10.
CO SAMPLE METER/RANGE/PPM	1.3/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	1.1/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	85.4/ 14/ .7639
CO2 BCKGRD METER/RANGE/PCT	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	28.8/ 1/ 7.3
NOX BCKGRD METER/RANGE/PPM	.0/ 1/ .0
DILUTION FACTOR	15.56
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	.7218
NOX CONCENTRATION PPM	7.3
THC MASS GRAMS	.30
CO MASS GRAMS	.02
CO2 MASS GRAMS	1117.9
NOX MASS GRAMS	1.19
RUN TIME SECONDS	600.
DPC, WET (DRY)	.936 (.917)
SCF, WET (DRY)	1.000 (.967)
VOL (SCH)	84.6
SAM BLR (SCH)	.00
MI (MEASURED)	1.18

TEST NUMBER,	B2FHC
BAROMETER, MM HG	737.6
HUMIDITY, G/KG	11.0
TEMPERATURE, DEG C	22.8
CARBON DIOXIDE, G/MI	950.9
FUEL ECONOMY, MPG	5.0
HYDROCARBONS, (THC) G/MI	.25
CARBON MONOXIDE, G/MI	.02
OXIDES OF NITROGEN, G/MI	1.01

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TEST NO. B2FHC-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 5/ 3/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 0. KM(0. MILES)

BAROMETER 734.31 MM HG(28.91 IN HG)
RELATIVE HUMIDITY 73. PCT

DRY BULB TEMP. 21.7 DEG C(71.0 DEG F)
ABS. HUMIDITY 12.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR 1.05

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)	41.7 (107.0)	43.9 (111.0)	42.8 (109.0)
BLOWER REVOLUTIONS	40161.	68908.	39958.	68660.
TOT FLOW STD. CU. METRES(SCF)	71.5 (2524.)	122.9 (4338.)	70.7 (2497.)	121.9 (4306.)
THC SAMPLE METER/RANGE/PPM	19.3/ 2/ 19.	16.0/ 2/ 16.	14.4/ 2/ 14.	13.2/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	13.4/ 2/ 13.	15.0/ 2/ 15.	11.9/ 2/ 12.	11.6/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	43.3/ 12/ 43.	.5/ 12/ 1.	6.6/ 12/ 7.	.4/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.5/ 12/ 1.	.5/ 12/ 1.	.4/ 12/ 0.	.4/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	79.7/ 1/1.4735	91.4/ 14/ .9015	67.5/ 1/1.2484	90.8/ 14/ .8866
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0437	12.6/ 14/ .0422	2.6/ 1/ .0455	13.8/ 14/ .0470
NOX SAMPLE METER/RANGE/PPM	65.6/ 1/ 16.4	26.0/ 1/ 6.6	65.4/ 1/ 16.4	31.5/ 1/ 8.0
NOX BCKGRD METER/RANGE/PPM	.8/ 1/ .2	.5/ 1/ .1	1.0/ 1/ .3	1.0/ 1/ .3
DILUTION FACTOR	8.05	13.19	9.53	13.41
THC CONCENTRATION PPM	8.	2.	4.	2.
CO CONCENTRATION PPM	40.	0.	6.	0.
CO2 CONCENTRATION PCT	1.4352	.8625	1.2077	.8431
NOX CONCENTRATION PPM	16.3	6.5	16.2	7.7
THC MASS GRAMS	.62	.30	.30	.34
CO MASS GRAMS	3.32	.00	.49	.00
CO2 MASS GRAMS	1878.3	1940.0	1563.5	1882.1
NOX MASS GRAMS	2.34	1.60	2.30	1.89
THC GRAMS/MI	.17	.08	.08	.09
CO GRAMS/MI	.92	.00	.14	.00
CO2 GRAMS/MI	521.1	498.6	433.4	487.1
NOX GRAMS/MI	.65	.41	.64	.49
FUEL ECONOMY IN MPG	9.10	9.32	9.53	10.30
RUN TIME SECONDS	505.	868.	505.	868.
MEASURED DISTANCE MI	3.60	7.50	3.61	7.47
SCF, DRY	.951	.957	.955	.959
DFC, WET (DRY)		.906(.885)		.914(.893)
TOT VOL (SCH) / SAM BLR (SCH)		194.3/ .00		192.6/ .00

COMPOSITE RESULTS

TEST NUMBER B2FHC-02
BAROMETER MM HG 734.3
HUMIDITY G/KG 12.3
TEMPERATURE DEG C 21.7

		3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	485.4	(481.9)
FUEL ECONOMY	MPG	9.79	(9.86)
HYDROCARBONS (THC)	G/MI	.10	(.10)
CARBON MONOXIDE	G/MI	.23	(.23)
OXIDES OF NITROGEN	G/MI	.52	(.55)

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EST NO. B2FHC-02 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

VEHICLE NO.95
 DATE 5/ 3/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
 ABS. HUMIDITY 10.4 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1179-F
 ODOMETER 0. KM(0. MILES)
 C = .436 H = .128 O = .437
 FUEL DENSITY = 6.57
 NOX HUMIDITY CORRECTION FACTOR .99

BAROMETER 734.06 MM HG(28.90 IN HG)
 RELATIVE HUMIDITY 52. PCT
 BAG RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	44.4 (112.0)
BLOWER REVOLUTIONS	60637.
TOT FLOW STD. CU. METRES(SCF)	107.1 (3781.)
THC SAMPLE METER/RANGE/PPM	13.5/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	12.3/ 2/ 12.
CO SAMPLE METER/RANGE/PPM	.4/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.2/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	87.1/ 1/1.6139
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0437
NOX SAMPLE METER/RANGE/PPM	58.3/ 1/ 14.6
NOX BCKGRD METER/RANGE/PPM	.6/ 1/ .2
DILUTION FACTOR	7.37
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.5761
NOX CONCENTRATION PPM	14.5
THC MASS GRAMS	.35
CO MASS GRAMS	.03
CO2 MASS GRAMS	3089.9
NOX MASS GRAMS	2.93
RUN TIME SECONDS	765.
DPC, WET (DRY)	.864 (.850)
SCP, WET (DRY)	1.000 (.955)
VOL (SCH)	107.1
SAM BLR (SCH)	.00
MI (MEASURED)	10.20

TEST NUMBER,	B2FHC-02
BAROMETER, MM HG	734.1
HUMIDITY, G/KG	10.4
TEMPERATURE, DEG C	24.4
CARBON DIOXIDE, G/MI	302.9
FUEL ECONOMY, MPG	15.7

HYDROCARBONS, (THC) G/MI	.03
CARBON MONOXIDE, G/MI	.00
OXIDES OF NITROGEN, G/MI	.29

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PROJECT 08-3381-001

TEST NO. B2FHC-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 731.52 MM HG(28.80 IN HG)
RELATIVE HUMIDITY 62. PCT
BAG RESULTS

TEST CYCLE

BLOWER DIP P MM. H2O(IN. H2O)
BLOWER INLET P MM. H2O(IN. H2O)
BLOWER INLET TEMP. DEG. C(DEG. F)
BLOWER REVOLUTIONS
TOT FLOW STD. CU. METRES(SCF)
THC SAMPLE METER/RANGE/PPM
THC BCKGRD METER/RANGE/PPM
CO SAMPLE METER/RANGE/PPM
CO BCKGRD METER/RANGE/PPM
CO2 SAMPLE METER/RANGE/PCT
CO2 BCKGRD METER/RANGE/PCT
NOX SAMPLE METER/RANGE/PPM
NOX BCKGRD METER/RANGE/PPM
DILUTION FACTOR
THC CONCENTRATION PPM
CO CONCENTRATION PPM
CO2 CONCENTRATION PCT
NOX CONCENTRATION PPM
THC MASS GRAMS
CO MASS GRAMS
CO2 MASS GRAMS
NOX MASS GRAMS
RUN TIME SECONDS
DPC, WET (DRY)
SCF, WET (DRY)
VOL (SCH)
SAM BLR (SCH)
MI (MEASURED)

VEHICLE NO.95
DATE 5/ 3/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 11.1 GM/KG

NYCC

1066.8 (42.0)
1117.6 (44.0)
43.3 (110.0)
47413.
83.7 (2955.)
15.4/ 2/ 15.
12.9/ 2/ 13.
.7/ 12/ 1.
.5/ 12/ 1.
85.5/ 14/ .7659
13.6/ 14/ .0462
31.3/ 1/ 7.9
.5/ 1/ .1
15.52
3.
0.
.7227
7.8
.32
.02
1107.2
1.26
599.
.936 (.917)
1.000 (.967)
83.7
.00
1.17

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1179-F
ODOMETER 0. KM(0. MILES)
C = .436 H = .128 O = .437
FUEL DENSITY = 6.57
NOX HUMIDITY CORRECTION FACTOR 1.01

TEST NUMBER,	B2FHC-02
BAROMETER, MM HG	731.5
HUMIDITY, G/KG	11.1
TEMPERATURE, DEG C	22.8
CARBON DIOXIDE, G/MI	946.6
FUEL ECONOMY, MPG	5.0
HYDROCARBONS, (THC) G/MI	.27
CARBON MONOXIDE, G/MI	.02
OXIDES OF NITROGEN, G/MI	1.08

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
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PROJECT 38-2346-001

TEST NO. B1FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/ 9/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)

BAROMETER 744.47 MM HG(29.31 IN HG)

RELATIVE HUMIDITY 44. PCT

DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)

ABS. HUMIDITY 8.0 GM/KG

NOX HUMIDITY CORRECTION FACTOR .92

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)	800.1 (31.5)	795.0 (31.3)	789.9 (31.1)
BLOWER INLET P MM. H2O(IN. H2O)	789.9 (31.1)	795.0 (31.3)	789.9 (31.1)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	41.7 (107.0)	42.2 (108.0)	41.7 (107.0)
BLOWER REVOLUTIONS	40553.	69506.	40468.	69455.
TOT FLOW STD. CU. METRES(SCF)	75.5 (2666.)	129.6 (4575.)	75.4 (2663.)	129.6 (4577.)
THC SAMPLE METER/RANGE/PPM	50.4/ 2/ 50.	11.3/ 2/ 11.	17.5/ 2/ 17.	12.6/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	6.2/ 2/ 6.	6.5/ 2/ 6.	6.5/ 2/ 6.	6.9/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	76.3/ 12/ 76.	.5/ 12/ 1.	3.0/ 12/ 3.	.5/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	76.2/ 1/1.4066	91.7/ 14/ .9091	66.7/ 1/1.2274	90.8/ 14/ .8866
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441	12.9/ 14/ .0434	2.4/ 1/ .0423	12.6/ 14/ .0422
NOX SAMPLE METER/RANGE/PPM	27.9/ 2/ 28.0	35.2/ 1/ 8.9	70.5/ 1/ 17.7	36.6/ 1/ 9.2
NOX BCKGRD METER/RANGE/PPM	.2/ 2/ .2	.7/ 1/ .2	.4/ 1/ .1	.4/ 1/ .1
DILUTION FACTOR	9.44	14.72	10.90	15.09
THC CONCENTRATION PPM	45.	5.	12.	6.
CO CONCENTRATION PPM	73.	0.	3.	0.
CO2 CONCENTRATION PCT	1.3672	.8686	1.1889	.8471
NOX CONCENTRATION PPM	27.8	8.7	17.6	9.1
THC MASS GRAMS	1.95	.39	.50	.46
CO MASS GRAMS	6.43	.07	.26	.07
CO2 MASS GRAMS	1890.1	2060.7	1641.7	2010.5
NOX MASS GRAMS	3.68	1.97	2.32	2.07
THC GRAMS/MI	.54	.10	.14	.12
CO GRAMS/MI	1.79	.02	.07	.02
CO2 GRAMS/MI	526.8	529.7	456.5	516.6
NOX GRAMS/MI	1.02	.51	.65	.53
FUEL ECONOMY IN MPG	16.69	16.71	19.40	18.16
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.59	7.48	3.60	7.49
SCF, DRY	.973	.976	.975	.978
DFC, WET (DRY)		.918(.905)		.924(.911)
TOT VOL (SCM) / SAM BLR (SCM)		205.1/ .00		205.1/ .00

COMPOSITE RESULTS

TEST NUMBER B1FBL1-01
BAROMETER MM HG 744.5
HUMIDITY G/KG 8.0
TEMPERATURE DEG C 23.3

		3-BAG	(4-BAG
CARBON DIOXIDE	G/MI	509.1	(505.2
FUEL ECONOMY	MPG	17.38	(17.51
HYDROCARBONS (THC)	G/MI	.20	(.21
CARBON MONOXIDE	G/MI	.40	(.40
OXIDES OF NITROGEN	G/MI	.65	(.66

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PROJECT 88-2346-001

TEST NO. B1FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 743.97 MM HG(29.29 IN HG)
RELATIVE HUMIDITY 42. PCT
BAG RESULTS

TEST CYCLE

BLOWER DIF P MM H2O(IN. H2O)
BLOWER INLET P MM H2O(IN. H2O)
BLOWER INLET TEMP. DEG. C(DEG. F)
BLOWER REVOLUTIONS
TOT FLOW STD. CU. METRES(SCF)
THC SAMPLE METER/RANGE/PPM
THC BCKGRD METER/RANGE/PPM
CO SAMPLE METER/RANGE/PPM
CO BCKGRD METER/RANGE/PPM
CO2 SAMPLE METER/RANGE/PCT
CO2 BCKGRD METER/RANGE/PCT
NOX SAMPLE METER/RANGE/PPM
NOX BCKGRD METER/RANGE/PPM
DILUTION FACTOR
THC CONCENTRATION PPM
CO CONCENTRATION PPM
CO2 CONCENTRATION PCT
NOX CONCENTRATION PPM
THC MASS GRAMS
CO MASS GRAMS
CO2 MASS GRAMS
NOX MASS GRAMS
RUN TIME SECONDS
DFC, WET (DRY)
SCF, WET (DRY)
VOL (SCM)
SAM BLR (SCM)
MI (MEASURED)

TEST NUMBER,
BAROMETER, MM HG
HUMIDITY, G/KG
TEMPERATURE, DEG C
CARBON DIOXIDE, G/MI
FUEL ECONOMY, MPG

HYDROCARBONS. (THC) G/MI
CARBON MONOXIDE, G/MI
OXIDES OF NITROGEN, G/MI

VEHICLE NO.95
DATE 1/ 9/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 8.1 GM/KG

HFET

812.8 (32.0)
888.1 (31.5)
42.2 (108.0)
61282.
113.9 (4023.)
17.0/ 2/ 17.
7.1/ 2/ 7.
1.5/ 12/ 2.
.0/ 12/ 0.
89.6/ 1/1.6631
2.6/ 1/ .0459
88.9/ 1/ 28.3
.5/ 1/ .1
8.05
11.
1.
1.6229
28.2
.71
.19
3385.0
4.05
765.
.876 (.864)
1.000 (.971)
113.9
.00
18.23

B1FBL1-01
744.0
8.1
24.4
338.9
26.8

.07
.02
.40

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .92

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PROJECT 88-2346-001

TEST NO. 81FBL1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/ 9/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 8.1 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .92

BAROMETER 743.71 MM HG(29.28 IN HG)
RELATIVE HUMIDITY 42. PCT
BAG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	789.9 (31.1)
BLOWER INLET P MM. H2O(IN. H2O)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	47771.
TOT FLOW STD. CU. METRES(SCF)	89.1 (3145.)
THC SAMPLE METER/RANGE/PPM	15.9/ 2/ 16.
THC BCKGRD METER/RANGE/PPM	6.8/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	6.6/ 12/ 7.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	86.1/ 14/ .7787
CO2 BCKGRD METER/RANGE/PCT	12.9/ 14/ .0434
NOX SAMPLE METER/RANGE/PPM	37.0/ 1/ 9.3
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	17.16
THC CONCENTRATION PPM	9.
CO CONCENTRATION PPM	6.
CO2 CONCENTRATION PCT	.7378
NOX CONCENTRATION PPM	9.2
THC MASS GRAMS	.49
CO MASS GRAMS	.67
CO2 MASS GRAMS	1203.0
NOX MASS GRAMS	1.44
RUN TIME SECONDS	597.
DFC, WET (DRY)	.942 (.929)
SCF, WET (DRY)	1.000 (.979)
VOL (SCM)	89.1
SAM BLR (SCM)	.00
MI (MEASURED)	1.19

TEST NUMBER,	81FBL1-01
BAROMETER, MM HG	743.7
HUMIDITY, G/KG	8.1
TEMPERATURE, DEG C	24.4
CARBON DIOXIDE, G/MI	1013.3
FUEL ECONOMY, MPG	8.7

HYDROCARBONS, (THC) G/MI	.41
CARBON MONOXIDE, G/MI	.57
OXIDES OF NITROGEN, G/MI	1.21

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PROJECT 88-2346-001

TEST NO. B1FJN1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO. 95
DATE 12/27/90
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE 24-1162-F
ODOMETER 2. KM(1. MILES)

BAROMETER 746.76 MM HG(29.40 IN HG)
RELATIVE HUMIDITY 38. PCT
BAG RESULTS

DRY BULB TEMP. 23.3 DEG C(74.0 DEG F)
ABS. HUMIDITY 5.5 GM/KG

NOX HUMIDITY CORRECTION FACTOR .95

BAG NUMBER DESCRIPTION	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)	797.6 (31.4)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)	792.5 (31.2)	789.9 (31.1)	789.9 (31.1)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)	41.1 (106.0)	42.2 (108.0)	41.1 (106.0)
BLOWER REVOLUTIONS	48536.	69514.	40473.	69432.
TOT FLOW STD. CU. METRES(SCF)	75.8 (2675.)	130.2 (4598.)	75.7 (2673.)	130.1 (4594.)
THC SAMPLE METER/RANGE/PPM	31.5/ 2/ 31.	7.7/ 2/ 8.	10.3/ 2/ 10.	8.1/ 2/ 9.
THC BCKGRD METER/RANGE/PPM	7.1/ 2/ 7.	7.0/ 2/ 7.	6.8/ 2/ 7.	6.7/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	36.7/ 12/ 37.	.0/ 12/ 0.	1.7/ 12/ 2.	.0/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	76.5/ 1/1.4123	91.9/ 14/ .9142	66.6/ 1/1.2255	91.2/ 14/ .8965
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441	13.0/ 14/ .0438	2.5/ 1/ .0441	13.0/ 14/ .0438
NOX SAMPLE METER/RANGE/PPM	26.3/ 2/ 26.4	23.6/ 1/ 6.0	60.7/ 1/ 15.2	22.6/ 1/ 5.7
NOX BCKGRD METER/RANGE/PPM	.1/ 2/ .1	.3/ 1/ .1	.2/ 1/ .1	.2/ 1/ .1
DILUTION FACTOR	9.44	14.65	10.92	14.93
THC CONCENTRATION PPM	25.	1.	4.	2.
CO CONCENTRATION PPM	35.	0.	2.	0.
CO2 CONCENTRATION PCT	1.3728	.8734	1.1854	.8556
NOX CONCENTRATION PPM	26.3	5.9	15.2	5.7
THC MASS GRAMS	1.10	.09	.18	.14
CO MASS GRAMS	3.10	.00	.15	.00
CO2 MASS GRAMS	1904.1	2082.2	1642.7	2038.1
NOX MASS GRAMS	3.24	1.26	1.87	1.21
THC GRAMS/MI	.30	.02	.05	.04
CO GRAMS/MI	.85	.00	.04	.00
CO2 GRAMS/MI	520.9	534.2	455.6	521.4
NOX GRAMS/MI	.89	.32	.52	.31
FUEL ECONOMY IN MPG	16.95	16.77	19.46	18.10
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.66	7.55	3.61	7.51
SCF, DRY	.977	.980	.979	.981
DFC, WET (DRY)		.918(.909)		.924(.915)
TOT VOL (SCM) / SAM BLR (SCM)		206.0/ .00		205.8/ .00

COMPOSITE RESULTS

TEST NUMBER B1FJN1-01
BAROMETER MM HG 746.8
HUMIDITY G/KG 5.5
TEMPERATURE DEG C 23.3

	3-BAG	(4-BAG
CARBON DIOXIDE G/MI	509.9	(506.2
FUEL ECONOMY MPG	17.37	(17.50
HYDROCARBONS (THC) G/MI	.09	(.09
CARBON MONOXIDE G/MI	.19	(.19
OXIDES OF NITROGEN G/MI	.49	(.49

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HFET - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. B1FJM1-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION AA

VEHICLE NO. 95
DATE 12/27/90
EAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
ABS. HUMIDITY 5.7 G/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EX-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .86

BAROMETER 746.51 MM HG(29.39 IN HG)
RELATIVE HUMIDITY 33. PCT
BAG RESULTS

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(INL. H2O)	887.7 (31.8)
BLOWER INLET P MM. H2O(INL. H2O)	797.6 (31.4)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	61268.
TOT FLOW STD. CU. METRES(SCF)	114.4 (4039.)
THC SAMPLE METER/RANGE/PPM	9.6/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	6.9/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	.0/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	87.8/ 1/1.6283
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0441
NOX SAMPLE METER/RANGE/PPM	53.7/ 1/ 13.5
NOX BCKGRD METER/RANGE/PPM	.2/ 1/ .1
DILUTION FACTOR	8.22
THC CONCENTRATION PPM	4.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.5895
NOX CONCENTRATION PPM	13.4
THC MASS GRAMS	.25
CO MASS GRAMS	.00
CO2 MASS GRAMS	3328.7
NOX MASS GRAMS	2.52
RUN TIME	765.
DFC, WET (DRY)	.878 (.869)
SCF, WET (DRY)	1.000 (.974)
VOL (SCM)	114.4
SAM BLR (SCM)	.00
MI (MEASURED)	10.25

TEST NUMBER,	B1FJM1-01
BAROMETER,	MM HG
HUMIDITY,	G/KG
TEMPERATURE,	DEG C
CARBON DIOXIDE,	G/MI
FUEL ECONOMY,	MPG
HYDROCARBONS, (THC)	G/MI
CARBON MONOXIDE,	G/MI
OXIDES OF NITROGEN,	G/MI

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 PROJECT 88-2346-001

TEST NO. B1FJM1-01 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302 CID) V-8
 TRANSMISSION A4

BAROMETER 746.00 MM HG(29.37 IN HG)
 RELATIVE HUMIDITY 38. PCT
 BAG RESULTS

VEHICLE NO. 95
 DATE 12/27/98
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
 ABS. HUMIDITY 6.0 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KM(12.6 HP)
 GASOLINE EM-1162-F
 ODOMETER 2. KM(1. MILES)
 C = .866 H = .134 O = .000-
 FUEL DENSITY = 6.16
 NOX HUMIDITY CORRECTION FACTOR .86

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET P MM. H2O(IN. H2O)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.1 (106.0)
BLOWER REVOLUTIONS	47776.
TOT FLOW STD. CU. METRES(SCF)	89.4 (3158.)
THC SAMPLE METER/RANGE/PPM	12.6/ 2/ 13.
THC BCKGRD METER/RANGE/PPM	6.9/ 2/ 7.
CO SAMPLE METER/RANGE/PPM	.2/ 12/ 0.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	85.8/ 14/ .7723
CO2 BCKGRD METER/RANGE/PCT	12.9/ 14/ .0434
NOX SAMPLE METER/RANGE/PPM	27.5/ 1/ 7.0
NOX BCKGRD METER/RANGE/PPM	.2/ 1/ .1
DILUTION FACTOR	17.32
THC CONCENTRATION PPM	6.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	.7314
NOX CONCENTRATION PPM	6.9
THC MASS GRAMS	.31
CO MASS GRAMS	.02
CO2 MASS GRAMS	1197.7
NOX MASS GRAMS	1.02
RUN TIME SECONDS	597.
DFC, WET (DRY)	.942 (.933)
SCF, WET (DRY)	1.000 (.983)
VOL (SCM)	89.4
SAM BLR (SCM)	.00
MI (MEASURED)	1.20

TEST NUMBER,	B1FJM1-01
BAROMETER, MM HG	746.0
HUMIDITY, G/KG	6.0
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	999.2
FUEL ECONOMY, MPG	8.9
HYDROCARBONS. (THC) G/MI	.26
CARBON MONOXIDE, G/MI	.02
OXIDES OF NITROGEN, G/MI	.85

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FTP - VEHICLE EMISSIONS RESULTS -

PROJECT 08-2346-001

TEST NO. B1FJM1-03 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

VEHICLE NO.95
 DATE 1/ 2/91
 BAG CART NO. 2 / CVS NO. 2
 DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1162-F
 ODOMETER 2. KM(1. MILES)

BAROMETER 746.25 MM HG(29.38 IN HG)
 RELATIVE HUMIDITY 44. PCT

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
 ABS. HUMIDITY 8.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .93

BAG RESULTS

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	789.9 (31.1)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.8 (109.0)	41.7 (107.0)	41.7 (107.0)	42.2 (108.0)
BLOWER REVOLUTIONS	48519.	69500.	40472.	69475.
TOT FLOW STD. CU. METRES(SCF)	75.6 (2671.)	129.9 (4587.)	75.6 (2671.)	129.7 (4581.)
THC SAMPLE METER/RANGE/PPM	29.1/ 2/ 29.	9.7/ 2/ 10.	11.8/ 2/ 12.	10.3/ 2/ 10.
THC BCKGRD METER/RANGE/PPM	8.8/ 2/ 9.	8.9/ 2/ 9.	9.1/ 2/ 9.	9.0/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	43.1/ 12/ 43.	2.3/ 12/ 2.	5.6/ 12/ 6.	2.3/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	2.3/ 12/ 2.	2.5/ 12/ 3.	2.2/ 12/ 2.	2.3/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	77.1/ 1/1.4236	92.2/ 14/ .9219	68.6/ 1/1.2631	91.3/ 14/ .8990
CO2 BCKGRD METER/RANGE/PCT	2.9/ 1/ .0512	14.8/ 14/ .0510	2.9/ 1/ .0512	15.0/ 14/ .0519
NOX SAMPLE METER/RANGE/PPM	99.2/ 1/ 24.7	25.2/ 1/ 6.4	58.6/ 1/ 14.7	23.2/ 1/ 5.9
NOX BCKGRD METER/RANGE/PPM	.9/ 1/ .2	.7/ 1/ .2	.8/ 1/ .2	.7/ 1/ .2
DILUTION FACTOR	9.37	14.52	10.59	14.88
THC CONCENTRATION PPM	21.	1.	4.	2.
CO CONCENTRATION PPM	39.	0.	3.	0.
CO2 CONCENTRATION PCT	1.3779	.8744	1.2167	.8506
NOX CONCENTRATION PPM	24.5	6.2	14.5	5.7
THC MASS GRAMS	.93	.11	.16	.14
CO MASS GRAMS	3.44	-.01	.30	.02
CO2 MASS GRAMS	1988.1	2079.6	1685.2	2020.2
NOX MASS GRAMS	3.28	1.43	1.94	1.32
THC GRAMS/MI	.25	.03	.04	.04
CO GRAMS/MI	.95	-.00	.08	.00
CO2 GRAMS/MI	524.8	532.2	463.5	516.6
NOX GRAMS/MI	.90	.37	.53	.34
FUEL ECONOMY IN MPG	16.82	16.74	16.66	17.16
RUN TIME SECONDS	505.	867.	505.	868.
MEASURED DISTANCE MI	3.64	7.54	3.64	7.55
SCF, DRY	.973	.975	.974	.977
DFC, WET (DRY)		.917(.904)		.923(.910)
TOT VOL (SCM) / SAM BLR (SCM)		205.5/ .00		205.4/ .00

COMPOSITE RESULTS

TEST NUMBER B1FJM1-03
 BAROMETER MM HG 746.3
 HUMIDITY G/KG 8.3
 TEMPERATURE DEG C 23.9

3-BAG (4-BAG)
 CARBON DIOXIDE G/MI 511.8 (507.2)
 FUEL ECONOMY MPG 17.31 (17.46)
 HYDROCARBONS (THC) G/MI .08 (.08)
 CARBON MONOXIDE G/MI .22 (.22)
 OXIDES OF NITROGEN G/MI .52 (.52)

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PROJECT 08-2346-001

TEST NO. B1FJM1-03 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 745.74 MM HG(29.36 IN HG)
RELATIVE HUMIDITY 42. PCT
BAG RESULTS

VEHICLE NO.95
DATE 1/ 2/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 8.5 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .93

TEST CYCLE

HFET

BLOWER DIF P MM. H2O(IN. H2O)	812.8 (32.0)
BLOWER INLET P MM. H2O(IN. H2O)	797.6 (31.4)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	61251.
TOT FLOW STD. CU. METRES(SCF)	114.3 (4036.)
THC SAMPLE METER/RANGE/PPM	11.3/ 2/ 11.
THC BCKGRD METER/RANGE/PPM	8.9/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	2.2/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	1.9/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	88.1/ 1/1.6341
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476
NOX SAMPLE METER/RANGE/PPM	55.7/ 1/ 14.0
NOX BCKGRD METER/RANGE/PPM	.8/ 1/ .2
DILUTION FACTOR	8.19
THC CONCENTRATION PPM	3.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.5922
NOX CONCENTRATION PPM	13.8
THC MASS GRAMS	.23
CO MASS GRAMS	.06
CO2 MASS GRAMS	3332.4
NOX MASS GRAMS	2.81
RUN TIME	765.
DFC, WET (DRY)	.878 (.866)
SCF, WET (DRY)	1.000 (.971)
VOL (SCM)	114.3
SAM BLR (SCM)	.00
MI (MEASURED)	10.18

TEST NUMBER,	B1FJM1-03
BAROMETER, MM HG	745.7
HUMIDITY, G/KG	8.5
TEMPERATURE, DEG C	25.0
CARBON DIOXIDE, G/MI	327.3
FUEL ECONOMY, MPG	27.1
HYDROCARBONS, (THC) G/MI	.02
CARBON MONOXIDE, G/MI	.01
OXIDES OF NITROGEN, G/MI	.28

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TEST NO. B1FJM1-03 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

VEHICLE NO.95
 DATE 1/ 2/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
 ABS. HUMIDITY 8.1 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1162-F
 ODOMETER 2. KM(1. MILES)
 C = .866 H = .134 O = .000
 FUEL DENSITY = 6.16
 NOX HUMIDITY CORRECTION FACTOR .92

BAROMETER 745.49 MM HG(29.35 IN HG)
 RELATIVE HUMIDITY 42. PCT
 BAG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	47747.
TOT FLOW STD. CU. METRES(SCF)	89.1 (3148.)
THC SAMPLE METER/RANGE/PPM	14.2/ 2/ 14.
THC BCKGRD METER/RANGE/PPM	8.9/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	2.3/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	1.8/ 12/ 2.
CO2 SAMPLE METER/RANGE/PCT	85.8/ 14/ .7723
CO2 BCKGRD METER/RANGE/PCT	14.9/ 14/ .0515
NOX SAMPLE METER/RANGE/PPM	25.6/ 1/ 6.5
NOX BCKGRD METER/RANGE/PPM	.7/ 1/ .2
DILUTION FACTOR	17.31
THC CONCENTRATION PPM	6.
CO CONCENTRATION PPM	1.
CO2 CONCENTRATION PCT	.7238
NOX CONCENTRATION PPM	6.3
THC MASS GRAMS	.30
CO MASS GRAMS	.06
CO2 MASS GRAMS	1181.2
NOX MASS GRAMS	.99
RUN TIME SECONDS	597.
DFC, WET (DRY)	.942 (.930)
SCF, WET (DRY)	1.000 (.979)
VOL (SCM)	39.1
SAM BLR (SCM)	.00
MI (MEASURED)	1.12

TEST NUMBER,	B1FJM1-03
BAROMETER, MM HG	745.5
HUMIDITY, G/KG	8.1
TEMPERATURE, DEG C	24.4
CARBON DIOXIDE, G/MI	1050.2
FUEL ECONOMY, MPG	8.4

HYDROCARBONS, (THC) G/MI	.27
CARBON MONOXIDE, G/MI	.05
OXIDES OF NITROGEN, G/MI	.88

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PROJECT 28-2346-201

TEST NO. B1FD-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 1/21/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)

BAROMETER 751.08 MM HG(29.57 IN HG)
RELATIVE HUMIDITY 16. PCT
BAG RESULTS

DRY BULB TEMP. 23.9 DEG C(75.0 DEG F)
ABS. HUMIDITY 2.9 GM/KG

NOX HUMIDITY CORRECTION FACTOR .80

BAG NUMBER	1	2	3	4
DESCRIPTION	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)	810.3 (31.9)	800.1 (31.5)	810.3 (31.9)
BLOWER INLET P MM. H2O(IN. H2O)	769.9 (31.1)	800.1 (31.5)	789.9 (31.1)	800.1 (31.5)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)	38.9 (102.0)	41.7 (107.0)	39.4 (103.0)
BLOWER REVOLUTIONS	40496.	69449.	40436.	69401.
TOT FLOW STD. CU. METRES(SCF)	76.3 (2694.)	131.3 (4637.)	76.2 (2689.)	131.1 (4629.)
THC SAMPLE METER/RANGE/PPM	30.1/ 2/ 30.	4.9/ 2/ 5.	5.6/ 2/ 6.	5.2/ 2/ 5.
THC BCKGRD METER/RANGE/PPM	4.7/ 2/ 5.	4.8/ 2/ 5.	4.8/ 2/ 5.	4.8/ 2/ 5.
CO SAMPLE METER/RANGE/PPM	43.7/ 12/ 43.	.1/ 12/ 0.	.0/ 12/ 0.	1.9/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.	.0/ 12/ 0.	.0/ 12/ 0.	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	76.3/ 1/1.4085	31.3/ 14/ .3990	66.3/ 1/1.2199	90.4/ 14/ .6768
CO2 BCKGRD METER/RANGE/PCT	2.4/ 1/ .0423	12.4/ 14/ .0415	2.4/ 1/ .0423	12.6/ 14/ .0422
NOX SAMPLE METER/RANGE/PPM	78.9/ 1/ 19.8	7.2/ 1/ 1.9	46.2/ 1/ 11.6	3.6/ 1/ .9
NOX BCKGRD METER/RANGE/PPM	.0/ 1/ .0	.0/ 1/ .0	.0/ 1/ .0	.0/ 1/ .0
DILUTION FACTOR	9.47	14.90	10.98	15.27
THC CONCENTRATION PPM	26.	0.	1.	1.
CO CONCENTRATION PPM	42.	0.	0.	2.
CO2 CONCENTRATION PCT	1.3706	.8603	1.1814	.8373
NOX CONCENTRATION PPM	19.8	1.9	11.6	.9
THC MASS GRAMS	1.14	.03	.05	.05
CO MASS GRAMS	3.74	.02	.00	.27
CO2 MASS GRAMS	1914.6	2068.6	1647.4	2009.5
NOX MASS GRAMS	2.30	.38	1.34	.19
THC GRAMS/MI	.32	.01	.02	.01
CO GRAMS/MI	1.04	.00	.00	.07
CO2 GRAMS/MI	533.7	532.9	458.3	514.4
NOX GRAMS/MI	.64	.10	.37	.05
FUEL ECONOMY IN MPG	16.53	16.59	16.64	17.23
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.59	7.47	3.59	7.50
SCF. DRY	.982	.985	.984	.986
DFC. WET (DRY)		.919(.914)		.925(.920)
TOT VOL (SCM) / SAM BLR (SCM)		207.6/ .00		207.3/ .00

COMPOSITE RESULTS

TEST NUMBER B1FD-01
BAROMETER MM HG 751.1
HUMIDITY G/KG 2.9
TEMPERATURE DEG C 23.9

CARBON DIOXIDE	G/MI	512.6	(507.2)
FUEL ECONOMY	MPG	17.28	(17.46)
HYDROCARBONS (THC)	G/MI	.07	(.08)
CARBON MONOXIDE	G/MI	.22	(.24)
OXIDES OF NITROGEN	G/MI	.28	(.27)

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PROJECT 08-2346-001

TEST NO. B1FD-01 RUN
VEHICLE MODEL 59 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 751.59 MM HG(29.59 IN HG)

RELATIVE HUMIDITY 18. PCT

BAG RESULTS

TEST CYCLE

VEHICLE NO.95

DATE 1/21/91

BAG CART NO. 2

DYNO NO. 3

CVS NO. 2

DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)

ABS. HUMIDITY 3.6 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)

ACTUAL ROAD LOAD 9.4 KW(12.6 HP)

GASOLINE EM-1162-F

ODOMETER 2. KM(1. MILES)

C = .866 H = .134 O = .000

FUEL DENSITY = 6.16

NOX HUMIDITY CORRECTION FACTOR .31

HFET

BLOWER DIF P MM. H2O(IN. H2O)

812.8 (32.0)

BLOWER INLET P MM. H2O(IN. H2O)

810.3 (31.9)

BLOWER INLET TEMP. DEG. C(DEG. F)

41.7 (107.0)

BLOWER REVOLUTIONS

61247.

TOT FLOW STD. CU. METRES(SCF)

115.1 (4066.)

THC SAMPLE METER/RANGE/PPM

5.9/ 2/ 6.

THC BCKGRD METER/RANGE/PPM

4.8/ 2/ 5.

CO SAMPLE METER/RANGE/PPM

17.1/ 12/ 17.

CO BCKGRD METER/RANGE/PPM

.2/ 12/ 3.

CO2 SAMPLE METER/RANGE/PCT

89.0/ 1/1.6515

CO2 BCKGRD METER/RANGE/PCT

2.4/ 1/ .0423

NOX SAMPLE METER/RANGE/PPM

57.8/ 1/ 14.5

NOX BCKGRD METER/RANGE/PPM

.0/ 1/ .0

DILUTION FACTOR

8.10

THC CONCENTRATION PPM

2.

CO CONCENTRATION PPM

16.

CO2 CONCENTRATION PCT

1.6144

NOX CONCENTRATION PPM

14.5

THC MASS GRAMS

.11

CO MASS GRAMS

2.21

CO2 MASS GRAMS

3403.2

NOX MASS GRAMS

2.58

RUN TIME SECONDS

765.

DFC, WET (DRY)

.377 (.372)

SCF, WET (DRY)

1.000 (.979)

VOL (SCM)

115.1

SAM BLR (SCM)

.00

MI (MEASURED)

10.20

TEST NUMBER,

B1FD-01

BAROMETER, MM HG

751.6

HUMIDITY, G/KG

3.6

TEMPERATURE, DEG C

25.0

CARBON DIOXIDE, G/MI

333.6

FUEL ECONOMY, MPG

26.5

HYDROCARBONS. (THC) G/MI

.01

CARBON MONOXIDE, G/MI

.22

OXIDES OF NITROGEN, G/MI

.25

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 PROJECT 08-2346-001

TEST NO. B1FD-01 RUN
 VEHICLE MODEL 69 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

 BAROMETER 751.59 MM HG(29.59 IN HG)
 RELATIVE HUMIDITY 20. PCT
 BAG RESULTS

VEHICLE NO.95
 DATE 1/21/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)
 ABS. HUMIDITY 3.4 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1162-F
 ODOMETER 2. KM(1. MILES)
 C = .866 H = .134 O = .000
 FUEL DENSITY = 6.16
 NOX HUMIDITY CORRECTION FACTOR .81

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	789.9 (31.1)
BLOWER INLET P MM. H2O(IN. H2O)	784.9 (30.9)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.1 (106.0)
BLOWER REVOLUTIONS	47836.
TOT FLOW STD. CU. METRES(SCF)	90.3 (3190.)
THC SAMPLE METER/RANGE/PPM	5.6/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	5.4/ 2/ 5.
CO SAMPLE METER/RANGE/PPM	.5/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	86.0/ 14/ .7765
CO2 BCKGRD METER/RANGE/PCT	12.8/ 14/ .0430
NOX SAMPLE METER/RANGE/PPM	13.9/ 1/ 3.6
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	17.24
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	.7360
NOX CONCENTRATION PPM	3.5
THC MASS GRAMS	.03
CO MASS GRAMS	.04
CO2 MASS GRAMS	1217.5
NOX MASS GRAMS	.49
RUN TIME SECONDS	597.
DFC, WET (DRY)	.942 (.936)
SCF, WET (DRY)	1.000 (.986)
VOL (SCM)	90.3
SAM BLR (SCM)	.00
MI (MEASURED)	1.17

TEST NUMBER,	B1FD-01
BAROMETER, MM HG	751.6
HUMIDITY, G/KG	3.4
TEMPERATURE, DEG C	22.8
CARBON DIOXIDE, G/MI	1043.2
FUEL ECONOMY, MPG	8.5
HYDROCARBONS, (THC) G/MI	.02
CARBON MONOXIDE, G/MI	.04
OXIDES OF NITROGEN, G/MI	.42

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TEST NO. 81FD-02 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-6
TRANSMISSION A4

VEHICLE NO. 95
DATE 1/22/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1983. KG(4382. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 3. KM(1. MILES)

BAROMETER 747.78 MM HG(29.44 IN HG)

RELATIVE HUMIDITY 26. PCT

DRY BULB TEMP. 24.4 DEG C(75.8 DEG F)

ABS. HUMIDITY 5.0 GM/KG

NOX HUMIDITY CORRECTION FACTOR .64

BAG RESULTS

BAG NUMBER DESCRIPTION	1 COLD TRANSIENT	2 STABILIZED	3 HOT TRANSIENT	4 STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)	805.2 (31.7)	800.1 (31.5)	800.1 (31.5)
BLOWER INLET P MM. H2O(IN. H2O)	789.9 (31.1)	795.0 (31.3)	795.0 (31.3)	795.0 (31.3)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)	39.4 (103.0)	41.1 (106.0)	40.0 (104.0)
BLOWER REVOLUTIONS	40460.	69440.	40442.	69388.
TOT FLOW STD. CU. METRES(SCF)	75.9 (2678.)	130.6 (4612.)	75.8 (2678.)	130.4 (4604.)
THC SAMPLE METER/RANGE/PPM	41.8/ 2/ 42.	5.8/ 2/ 6.	6.4/ 2/ 6.	5.6/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	5.2/ 2/ 6.	5.7/ 2/ 6.	6.2/ 2/ 6.	5.7/ 2/ 6.
CO SAMPLE METER/RANGE/PPM	75.5/ 12/ 75.	.7/ 12/ 1.	.5/ 12/ 1.	1.6/ 12/ 2.
CO BCKGRD METER/RANGE/PPM	.4/ 12/ 0.	.3/ 12/ 0.	.0/ 12/ 0.	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	77.4/ 1/1.4293	91.5/ 14/ .9040	66.5/ 1/1.2236	90.7/ 14/ .6841
CO2 BCKGRD METER/RANGE/PCT	2.7/ 1/ .0476	13.6/ 14/ .0462	2.7/ 1/ .0476	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	77.9/ 1/ 19.5	4.2/ 1/ 1.1	27.1/ 1/ 6.9	9.4/ 1/ 2.4
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1	.5/ 1/ .1	.5/ 1/ .1	.5/ 1/ .1
DILUTION FACTOR	9.30	14.81	10.95	15.14
THC CONCENTRATION PPM	36.	0.	1.	0.
CO CONCENTRATION PPM	72.	0.	0.	1.
CO2 CONCENTRATION PCT	1.3868	.6610	1.1803	.6421
NOX CONCENTRATION PPM	19.4	1.0	6.7	2.3
THC MASS GRAMS	1.59	.04	.03	.02
CO MASS GRAMS	6.39	.06	.04	.03
CO2 MASS GRAMS	1926.0	2058.9	1638.9	2010.3
NOX MASS GRAMS	2.37	.21	.62	.49
THC GRAMS/MI	.44	.01	.01	.01
CO GRAMS/MI	1.78	.02	.01	.02
CO2 GRAMS/MI	536.5	530.3	456.7	518.1
NOX GRAMS/MI	.66	.05	.23	.13
FUEL ECONOMY IN MPG	16.40	16.57	16.72	17.11
RUN TIME SECONDS	505.	867.	505.	867.
MEASURED DISTANCE MI	3.59	7.47	3.59	7.47
SCF. DRY	.978	.982	.960	.983
DFC. WET (DRY)		.918(.910)		.925(.917)
TOT VOL (SCM) / SAM BLR (SCM)		206.5/ .00		206.2/ .00

COMPOSITE RESULTS

TEST NUMBER 81FD-02
BAROMETER MM HG 747.8
HUMIDITY G/KG 5.0
TEMPERATURE DEG C 24.4

		3-BAG	(4-BAG)
CARBON DIOXIDE	G/MI	511.4	(507.8)
FUEL ECONOMY	MPG	17.31	(17.43)
HYDROCARBONS (THC)	G/MI	.10	(.10)
CARBON MONOXIDE	G/MI	.38	(.39)
OXIDES OF NITROGEN	G/MI	.23	(.25)

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
AFET - VEHICLE EMISSIONS RESULTS -
PROJECT 88-2346-001

TEST NO. 81FD-02 RUN
VEHICLE MODEL 69 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO. 95
DATE 1/22/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)
ABS. HUMIDITY 5.6 GM/KG

TEST WEIGHT 1968. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .86

BAROMETER 747.81 MM HG(29.41 IN HG)

RELATIVE HUMIDITY 29. PCT

BAG RESULTS

TEST CYCLE

AFET

BLOWER DIF P MM. H2O(IN. H2O)	612.8 (32.0)
BLOWER INLET P MM. H2O(IN. H2O)	810.3 (31.9)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.7 (107.0)
BLOWER REVOLUTIONS	61235.
TOT FLOW STD. CU. METRES(SCF)	114.3 (4037.)
THC SAMPLE METER/RANGE/PPM	5.0/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	5.8/ 2/ 6.
CO SAMPLE METER/RANGE/PPM	15.0/ 12/ 16.
CO BCKGRD METER/RANGE/PPM	.0/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	88.8/ 1/1.5476
CO2 BCKGRD METER/RANGE/PCT	2.6/ 1/ .0459
NOX SAMPLE METER/RANGE/PPM	41.2/ 1/ 10.3
NOX BCKGRD METER/RANGE/PPM	.3/ 1/ .1
DILUTION FACTOR	8.12
THC CONCENTRATION PPM	1.
CO CONCENTRATION PPM	15.
CO2 CONCENTRATION PCT	..6074
NOX CONCENTRATION PPM	10.3
THC MASS GRAMS	.06
CO MASS GRAMS	2.05
CO2 MASS GRAMS	3364.9
NOX MASS GRAMS	1.92
RUN TIME SECONDS	765.
SCF. WET (DRY)	.377 (.369)
SCF. WET (DRY)	1.000 (.975)
VOL (SCM)	114.3
SAM BLR (SCM)	.00
MI (MEASURED)	10.19

TEST NUMBER.	81FD-02
BAROMETER.	MM HG
	747.8
HUMIDITY.	G/KG
	5.6
TEMPERATURE.	DEG C
	24.4
CARBON DIOXIDE.	G/MI
	330.2
FUEL ECONOMY.	MPG
	26.8

-HYDROCARBONS. (THC)	G/MI
	.01
CARBON MONOXIDE.	G/MI
	.20
OXIDES OF NITROGEN.	G/MI
	.19

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 28-2346-201

TEST NO. B1FD-02 RUN
VEHICLE MODEL 69 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-6
TRANSMISSION A4

VEHICLE NO. 95
DATE 1/22/91
BAG CART NO. 2
DYNO NO. 3
CVS NO. 2
DRY BULB TEMP. 25.0 DEG C(77.0 DEG F)
ABS. HUMIDITY 4.8 GM/KG

TEST WEIGHT 1926. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1162-F
ODOMETER 2. KM(1. MILES)
C = .866 H = .134 O = .000
FUEL DENSITY = 6.16
NOX HUMIDITY CORRECTION FACTOR .84

BAROMETER 746.76 MM HG(29.40 IN HG)
RELATIVE HUMIDITY 24. PCT
BAG RESULTS

TEST CYCLE

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	795.0 (31.3)
BLOWER INLET P MM. H2O(IN. H2O)	787.4 (31.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	41.1 (106.0)
BLOWER REVOLUTIONS	47728.
TOT FLOW STD. CU. METRES(SCF)	69.5 (3159.)
THC SAMPLE METER/RANGE/PPM	5.9/ 2/ 6.
THC BCKGRD METER/RANGE/PPM	5.8/ 2/ 6.
CO SAMPLE METER/RANGE/PPM	.6/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.3/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	85.5/ 14/ .7659
CO2 BCKGRD METER/RANGE/PCT	13.1/ 14/ .0442
NOX SAMPLE METER/RANGE/PPM	11.7/ 1/ 3.0
NOX BCKGRD METER/RANGE/PPM	.5/ 1/ .1
DILUTION FACTOR	17.48
THC CONCENTRATION PPM	0.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	.7243
NOX CONCENTRATION PPM	2.9
THC MASS GRAMS	.02
CO MASS GRAMS	.03
CO2 MASS GRAMS	1186.3
NOX MASS GRAMS	.41
RUN TIME	596.
SEC. WET (DRY)	.943 (.936)
SCF, WET (DRY)	1.000 (.985)
VOL (SCM)	89.5
SAM BLR (SCM)	.00
MI (MEASURED)	1.18

TEST NUMBER.	B1FD-02
BAROMETER.	MM HG 746.8
HUMIDITY.	G/KG 4.8
TEMPERATURE.	DEG C 25.0
CARBON DIOXIDE.	G/MI 1001.8
FUEL ECONOMY.	MPG 8.9

HYDROCARBONS. (THC)	G/MI .02
CARBON MONOXIDE.	G/MI .03
OXIDES OF NITROGEN.	G/MI .05

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FTP - VEHICLE EMISSIONS RESULTS -
PROJECT 08-3381-001

TEST NO. B1FHC-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

VEHICLE NO.95
DATE 5/ 6/91
BAG CART NO. 2 / CVS NO. 2
DYNO NO. 3

TEST WEIGHT 1928. KG(4250. LBS)
ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
GASOLINE EM-1235-F
ODOMETER 0. KM(0. MILES)

BAROMETER 746.25 MM HG(29.38 IN HG)

RELATIVE HUMIDITY 36. PCT

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)

ABS. HUMIDITY 6.3 GM/KG

NOX HUMIDITY CORRECTION FACTOR .87

BAG RESULTS

BAG NUMBER
DESCRIPTION

	1	2	3	4
	COLD TRANSIENT	STABILIZED	HOT TRANSIENT	STABILIZED
BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	39.4 (103.0)	37.8 (100.0)	38.9 (102.0)	40.6 (105.0)
BLOWER REVOLUTIONS	40205.	68946.	40107.	68727.
TOT FLOW STD. CU. METRES(SCF)	73.6 (2599.)	126.9 (4481.)	73.5 (2597.)	125.3 (4424.)
THC SAMPLE METER/RANGE/PPM	36.4/ 2/ 36.	12.4/ 2/ 12.	14.8/ 2/ 15.	11.9/ 2/ 12.
THC BCKGRD METER/RANGE/PPM	9.1/ 2/ 9.	8.5/ 2/ 8.	7.6/ 2/ 8.	7.7/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	23.1/ 12/ 23.	.5/ 12/ 1.	1.6/ 12/ 2.	.5/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.6/ 12/ 1.	.4/ 12/ 0.	.5/ 12/ 1.	.5/ 12/ 1.
CO2 SAMPLE METER/RANGE/PCT	79.8/ 1/1.4754	92.6/ 14/ .9323	69.6/ 1/1.2869	92.1/ 14/ .9193
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0437	12.5/ 14/ .0418	2.6/ 1/ .0455	13.3/ 14/ .0450
NOX SAMPLE METER/RANGE/PPM	28.8/ 2/ 28.9	35.3/ 1/ 8.9	72.3/ 1/ 18.1	37.9/ 1/ 9.5
NOX BCKGRD METER/RANGE/PPM	.2/ 2/ .2	.3/ 1/ .1	.9/ 1/ .2	.9/ 1/ .2
DILUTION FACTOR	9.05	14.35	10.40	14.56
THC CONCENTRATION PPM	28.	4.	8.	5.
CO CONCENTRATION PPM	22.	0.	1.	0.
CO2 CONCENTRATION PCT	1.4365	.8934	1.2458	.8774
NOX CONCENTRATION PPM	28.7	8.8	17.9	9.3
THC MASS GRAMS	1.20	.33	.34	.34
CO MASS GRAMS	1.85	.02	.10	.00
CO2 MASS GRAMS	1935.7	2075.8	1677.3	2012.9
NOX MASS GRAMS	3.53	1.87	2.20	1.95
THC GRAMS/MI	.34	.09	.09	.09
CO GRAMS/MI	.52	.00	.03	.00
CO2 GRAMS/MI	541.6	537.2	469.1	523.9
NOX GRAMS/MI	.99	.48	.62	.51
FUEL ECONOMY IN MPG	16.32	16.41	16.50	17.81
RUN TIME SECONDS	505.	868.	506.	867.
MEASURED DISTANCE MI	3.57	7.44	3.58	7.42
SCF, DRY	.975	.978	.976	.979
DPC, WET (DRY)		.915(.905)		.921(.910)
TOT VOL (SCH) / SAM BLR (SCH)		200.5/ .00		198.8/ .00

COMPOSITE RESULTS

TEST NUMBER B1FHC-01
BAROMETER MM HG 746.3
HUMIDITY G/KG 6.3
TEMPERATURE DEG C 22.8

CARBON DIOXIDE	G/MI	3-BAG	(4-BAG)
FUEL ECONOMY	MPG	519.5	(515.5)
HYDROCARBONS (THC)	G/MI	17.05	(17.18)
CARBON MONOXIDE	G/MI	.14	(.14)
OXIDES OF NITROGEN	G/MI	.12	(.12)
		.62	(.63)

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 HPET - VEHICLE EMISSIONS RESULTS -
 PROJECT 08-3381-001

TEST NO. B1FHC-01 RUN
 VEHICLE MODEL 89 CROWN VICTORIA
 ENGINE 4.9 L(302. CID) V-8
 TRANSMISSION A4

BAROMETER 746.00 MM HG(29.37 IN HG)
 RELATIVE HUMIDITY 39. PCT
 BAG RESULTS

VEHICLE NO.95
 DATE 5/ 6/91
 BAG CART NO. 2
 DYNO NO. 3
 CVS NO. 2
 DRY BULB TEMP. 22.2 DEG C(72.0 DEG F)
 ABS. HUMIDITY 6.6 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)
 ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
 GASOLINE EM-1235-F
 ODOMETER 0. KM(0. MILES)
 C = .866 H = .134 O = .000
 FUEL DENSITY = 6.16
 NOX HUMIDITY CORRECTION FACTOR .88

TEST CYCLE

HPET

BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	60594.
TOT FLOW STD. CU. METRES(SCF)	109.8 (3877.)
THC SAMPLE METER/RANGE/PPM	13.6/ 2/ 14.
THC BCKGRD METER/RANGE/PPM	7.8/ 2/ 8.
CO SAMPLE METER/RANGE/PPM	.6/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.1/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	93.3/ 1/1.7355
CO2 BCKGRD METER/RANGE/PCT	2.5/ 1/ .0437
NOX SAMPLE METER/RANGE/PPM	77.2/ 1/ 19.3
NOX BCKGRD METER/RANGE/PPM	.7/ 1/ .2
DILUTION FACTOR	7.71
THC CONCENTRATION PPM	7.
CO CONCENTRATION PPM	0.
CO2 CONCENTRATION PCT	1.6975
NOX CONCENTRATION PPM	19.2
THC MASS GRAMS	.43
CO MASS GRAMS	.06
CO2 MASS GRAMS	3412.6
NOX MASS GRAMS	3.54
RUN TIME SECONDS	766.
DPC, WET (DRY)	.870 (.860)
SCF, WET (DRY)	1.000 (.971)
VOL (SCH)	109.8
SAM BLR (SCH)	.00
MI (MEASURED)	10.17

TEST NUMBER,	B1FHC-01
BAROMETER, MM HG	746.0
HUMIDITY, G/KG	6.6
TEMPERATURE, DEG C	22.2
CARBON DIOXIDE, G/MI	335.4
FUEL ECONOMY, MPG	26.4
HYDROCARBONS, (THC) G/MI	.04
CARBON MONOXIDE, G/MI	.01
OXIDES OF NITROGEN, G/MI	.35

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NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 08-3381-001

TEST NO. B1FHC-01 RUN
VEHICLE MODEL 89 CROWN VICTORIA
ENGINE 4.9 L(302. CID) V-8
TRANSMISSION A4

BAROMETER 745.74 MM HG(29.36 IN HG)

RELATIVE HUMIDITY 43. PCT

BAG RESULTS

TEST CYCLE

VEHICLE NO.95

DATE 5/ 6/91

BAG CART NO. 2

DYNO NO. 3

CVS NO. 2

DRY BULB TEMP. 22.8 DEG C(73.0 DEG F)

ABS. HUMIDITY 7.5 GM/KG

TEST WEIGHT 1928. KG(4250. LBS)

ACTUAL ROAD LOAD 9.4 KW(12.6 HP)

GASOLINE EH-1235-F

ODOMETER 0. KM(0. MILES)

C = .866 E = .134 O = .000

FUEL DENSITY = 6.16

NOX HUMIDITY CORRECTION FACTOR .91

NYCC

BLOWER DIF P MM. H2O(IN. H2O)	1066.8 (42.0)
BLOWER INLET P MM. H2O(IN. H2O)	1117.6 (44.0)
BLOWER INLET TEMP. DEG. C(DEG. F)	42.2 (108.0)
BLOWER REVOLUTIONS	47478.
TOT FLOW STD. CU. METRES(SCF)	86.0 (3037.)
THC SAMPLE METER/RANGE/PPM	16.6/ 2/ 17.
THC BCKGRD METER/RANGE/PPM	8.9/ 2/ 9.
CO SAMPLE METER/RANGE/PPM	1.1/ 12/ 1.
CO BCKGRD METER/RANGE/PPM	.4/ 12/ 0.
CO2 SAMPLE METER/RANGE/PCT	87.1/ 14/ .8004
CO2 BCKGRD METER/RANGE/PCT	13.4/ 14/ .0454
NOX SAMPLE METER/RANGE/PPM	35.8/ 1/ 9.0
NOX BCKGRD METER/RANGE/PPM	.6/ 1/ .2
DILUTION FACTOR	16.71
THC CONCENTRATION PPM	8.
CO CONCENTRATION PPM	1.
CO2 CONCENTRATION PCT	.7577
NOX CONCENTRATION PPM	8.9
THC MASS GRAMS	.41
CO MASS GRAMS	.07
CO2 MASS GRAMS	1193.0
NOX MASS GRAMS	1.32
RUN TIME SECONDS	600.
DPC, WET (DRY)	.940 (.927)
SCF, WET (DRY)	1.000 (.979)
VOL (SCH)	86.0
SAH BLR (SCH)	.00
HI (MEASURED)	1.15

TEST NUMBER,	B1FHC-01
BAROMETER, MM HG	745.7
HUMIDITY, G/KG	7.5
TEMPERATURE, DEG C	22.8
CARBON DIOXIDE, G/MI	1038.2
FUEL ECONOMY, MPG	8.5

HYDROCARBONS, (THC) G/MI	.36
CARBON MONOXIDE, G/MI	.06
OXIDES OF NITROGEN, G/MI	1.15

SOUTHWEST RESEARCH INSTITUTE - DEPARTMENT OF EMISSIONS RESEARCH
NYCC - VEHICLE EMISSIONS RESULTS -
PROJECT 08-3381-001

TEST	EST NO. B1FHC-02	RUN	VEHICLE NO.95	TEST WEIGHT 1928. KG(4250. LBS)
VEH	VEHICLE MODEL	89 CROWN VICTORIA	DATE 5/ 7/91	ACTUAL ROAD LOAD 9.4 KW(12.6 HP)
ENGI	ENGINE	4.9 L(302. CID) V-8	BAG CART NO. 2	GASOLINE EM-1235-F
TRAN	TRANSMISSION	A4	DYNO NO. 3	ODOMETER 0. KM(0. MILES)
			CVS NO. 2	C = .866 H = .134 O = .000
BARO	BAROMETER	742.19 MM HG(29.22 IN HG)	DRY BULB TEMP. 24.4 DEG C(76.0 DEG F)	FUEL DENSITY = 6.16
RELA	RELATIVE HUMIDITY	52. PCT	ABS. HUMIDITY 10.2 GM/KG	NOX HUMIDITY CORRECTION FACTOR .98
BAG	BAG RESULTS			
B	TEST CYCLE		NYCC	
D				
	BLOWER DIF P MM. H2O(IN. H2O)		1066.8 (42.0)	
	BLOWER INLET P MM. H2O(IN. H2O)		1117.6 (44.0)	
	BLOWER INLET TEMP. DEG. C(DEG. F)		43.3 (110.0)	
	BLOWER REVOLUTIONS		47419.	
	TOT FLOW STD. CU. METRES(SCF)		85.1 (3005.)	
	THC SAMPLE METER/RANGE/PPH		19.5/ 2/ 19.	
	THC BCKGRD METER/RANGE/PPH		12.9/ 2/ 13.	
	CO SAMPLE METER/RANGE/PPH		1.9/ 12/ 2.	
	CO BCKGRD METER/RANGE/PPH		1.0/ 12/ 1.	
	CO2 SAMPLE METER/RANGE/PCT		88.2/ 14/ .8250	
	CO2 BCKGRD METER/RANGE/PCT		14.5/ 14/ .0498	
	NOX SAMPLE METER/RANGE/PPH		34.7/ 1/ 8.7	
	NOX BCKGRD METER/RANGE/PPH		.8/ 1/ .2	
	DILUTION FACTOR		16.20	
	THC CONCENTRATION PPM		7.	
	CO CONCENTRATION PPM		1.	
	CO2 CONCENTRATION PCT		.7782	
	NOX CONCENTRATION PPM		8.5	
	THC MASS GRAMS		.36	
	CO MASS GRAMS		.09	
	CO2 MASS GRAMS		1212.7	
	NOX MASS GRAMS		1.37	
	RUN TIME SECONDS		598.	
	DPC, WET (DRY)		.938 (.923)	
	SCF, WET (DRY)		1.000 (.976)	
	VOL (SCH)		85.1	
	SAM BLR (SCH)		.00	
	MI (MEASURED)		1.15	
	TEST NUMBER,		B1FHC-02	
	BAROMETER, MM HG		742.2	
	HUMIDITY, G/KG		10.2	
	TEMPERATURE, DEG C		24.4	
	CARBON DIOXIDE, G/MI		1051.4	
	FUEL ECONOMY, MPG		8.4	
	HYDROCARBONS, (THC) G/MI		.31	
	CARBON MONOXIDE, G/MI		.08	
	OXIDES OF NITROGEN, G/MI		1.19	