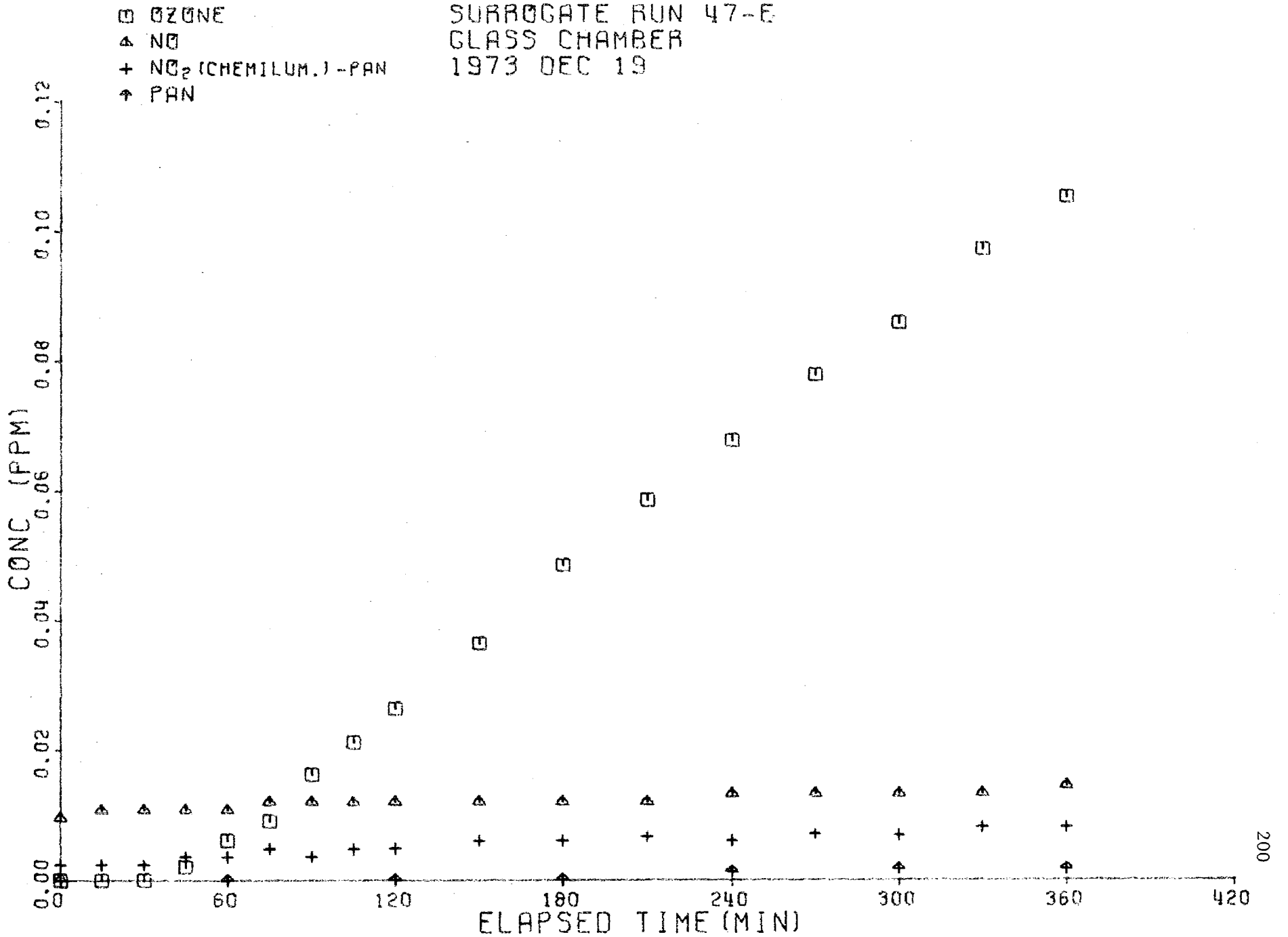
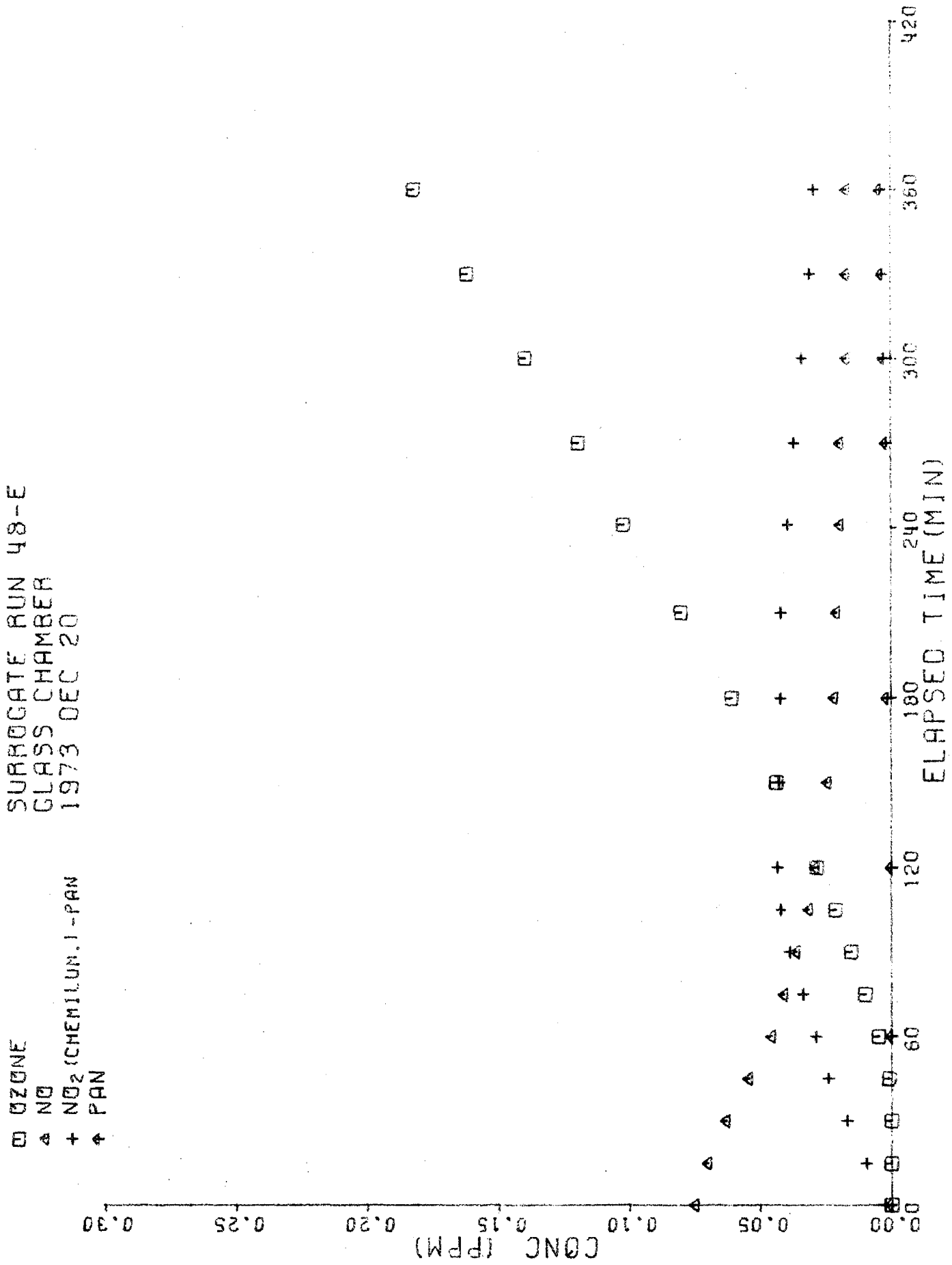
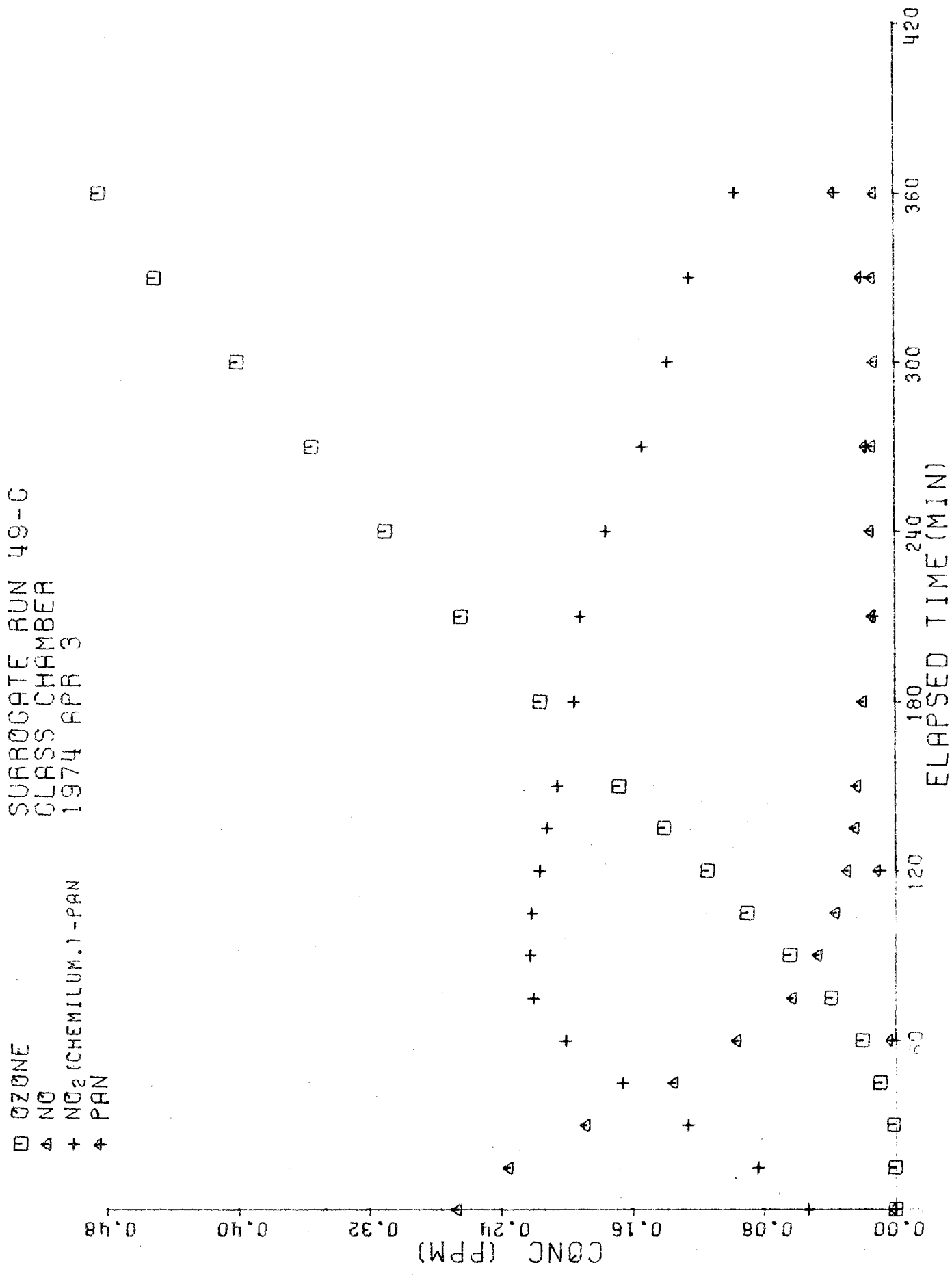
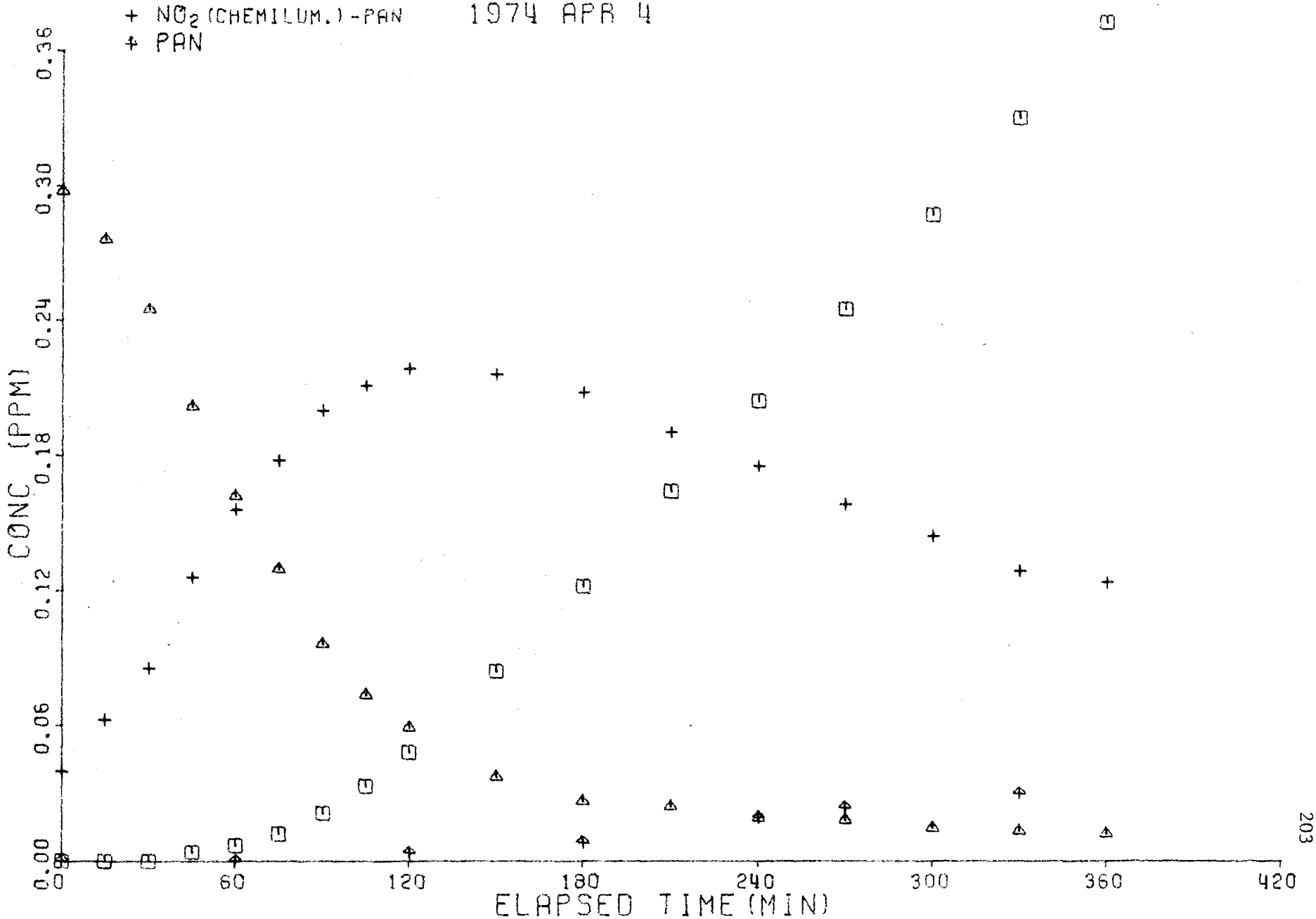
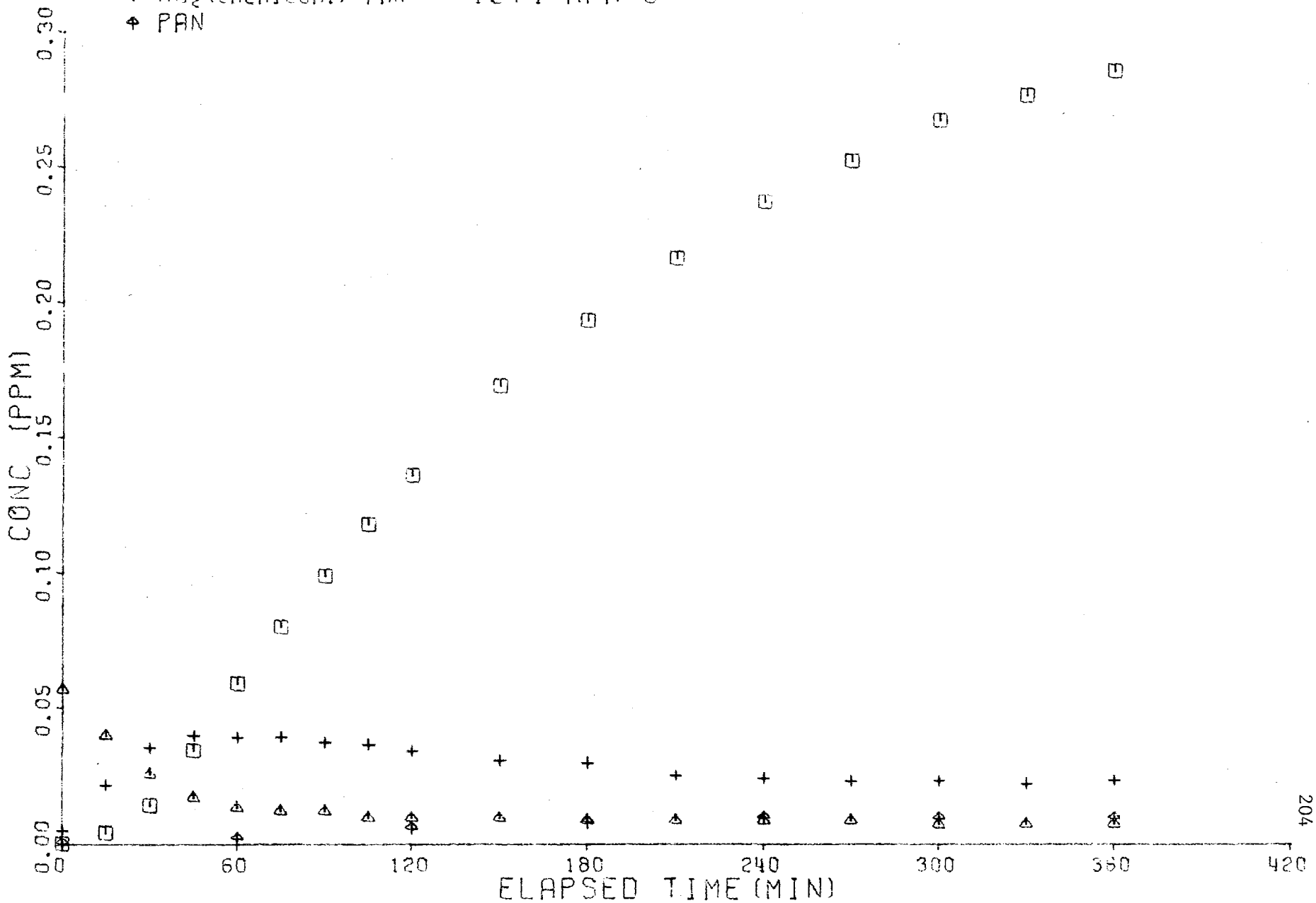
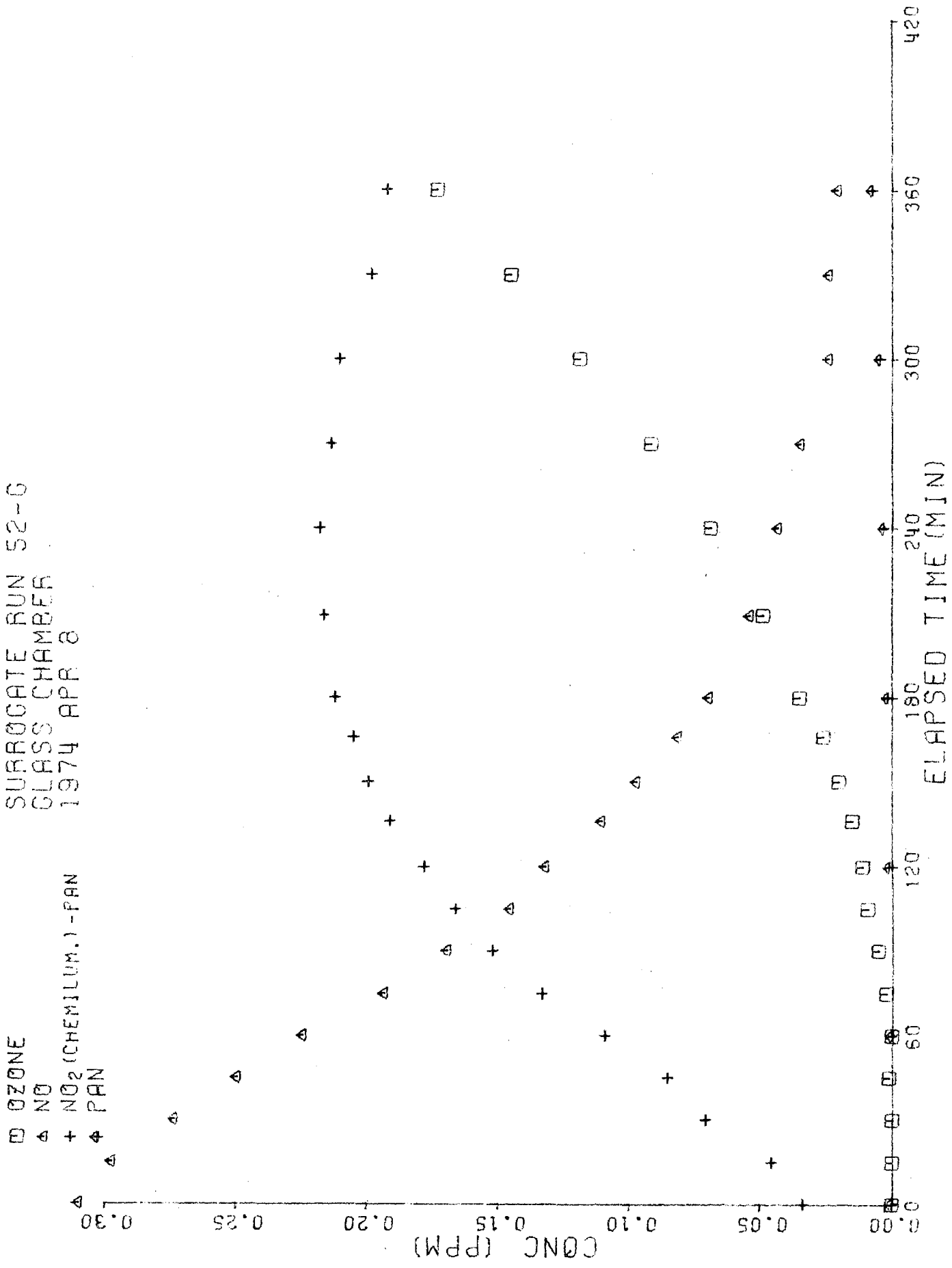

O3 OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
SURROGATE RUN 47-E
GLASS CHAMBER
1973 DEC 19
CONC (PPM)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0
60
120
180
240
300
360
420
ELAPSED TIME (MIN)
200

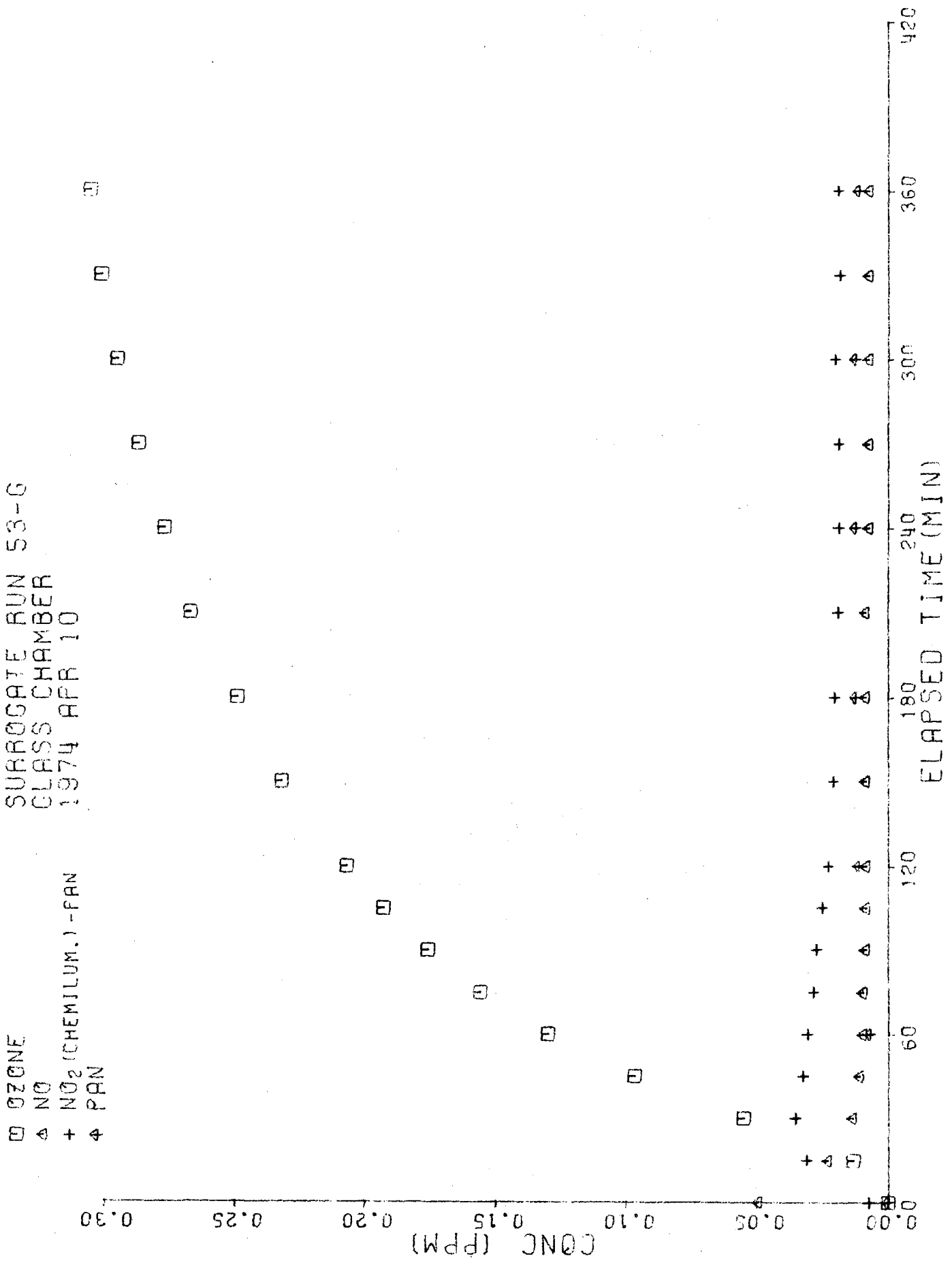

SURROGATE RUN 48-E
GLASS CHAMBER
1973 DEC 20
OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
CONC (PPM)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420

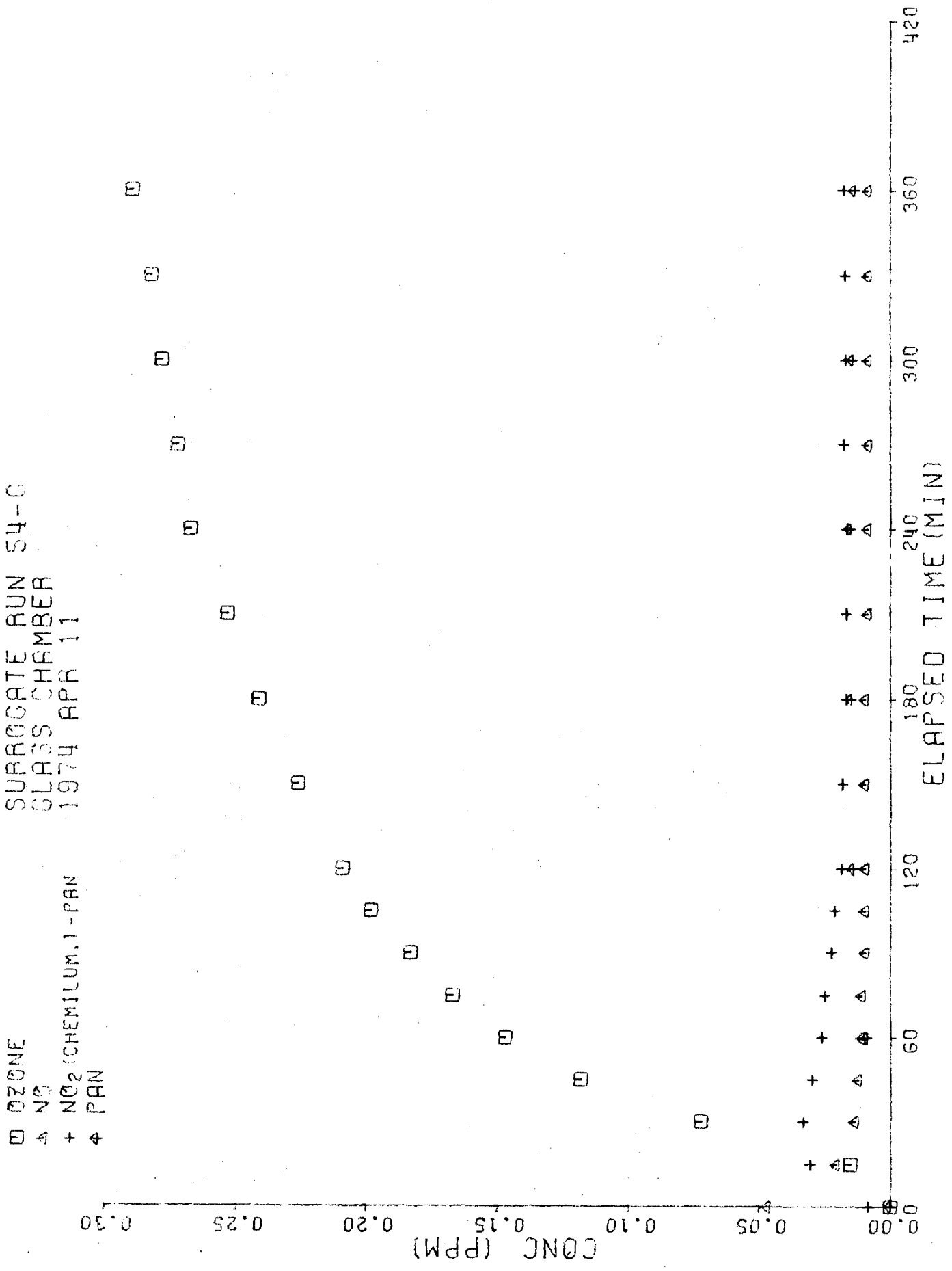

SURROGATE RUN 49-C
GLASS CHAMBER
1974 APR 3
□ OZONE
◁ NO
+ NO2 (CHEMILUM.)-PAN
+ PAN
CONC (PPM)
0.00
0.08
0.16
0.24
0.32
0.40
0.48
ELAPSED TIME (MIN)
120
180
240
300
360
420

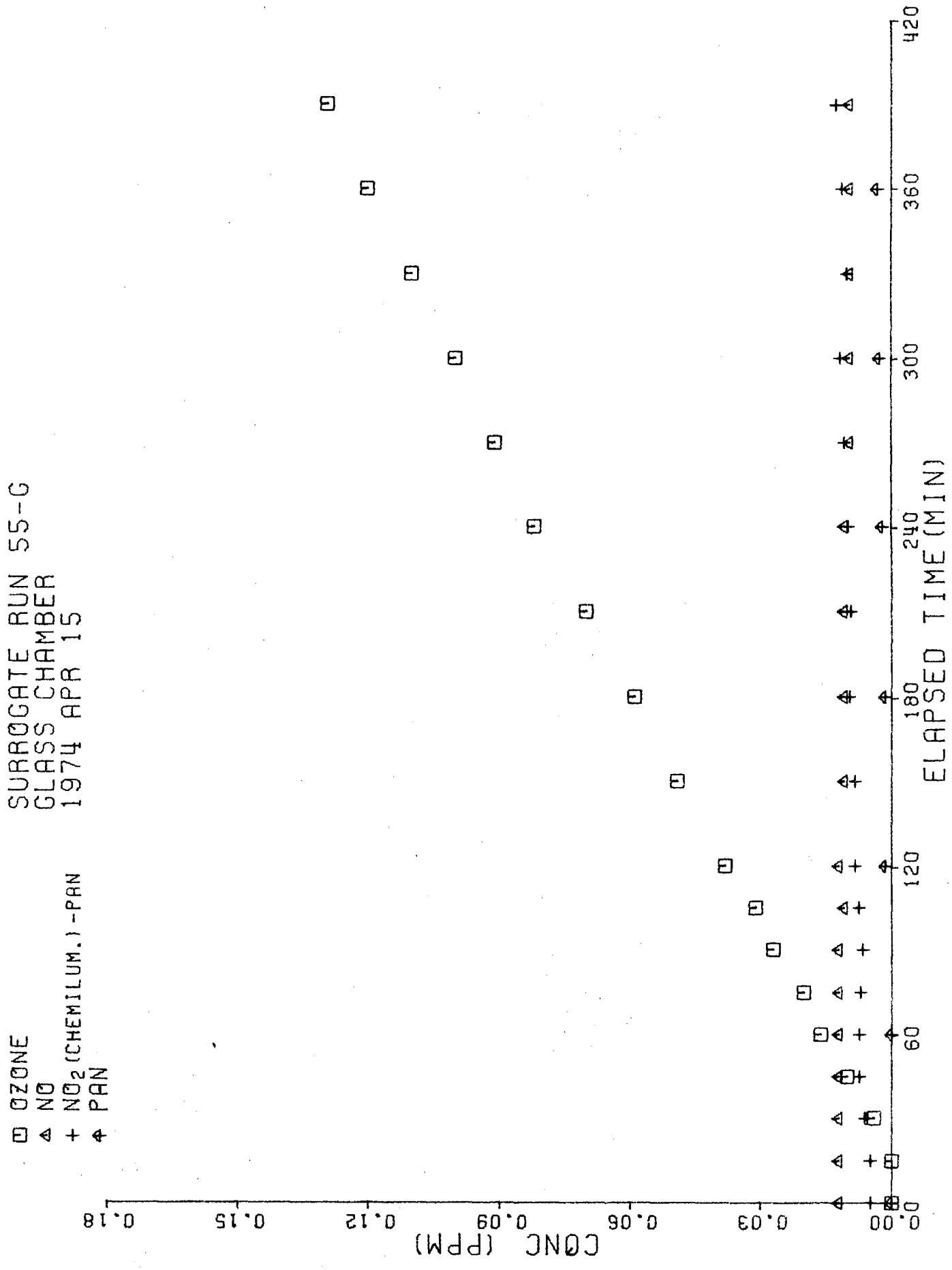

OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
SURROGATE RUN 50-G
GLASS CHAMBER
1974 APR 4
CONC (PPM)
0.00
0.06
0.12
0.18
0.24
0.30
0.36
0
60
120
180
240
300
360
420
ELAPSED TIME (MIN)

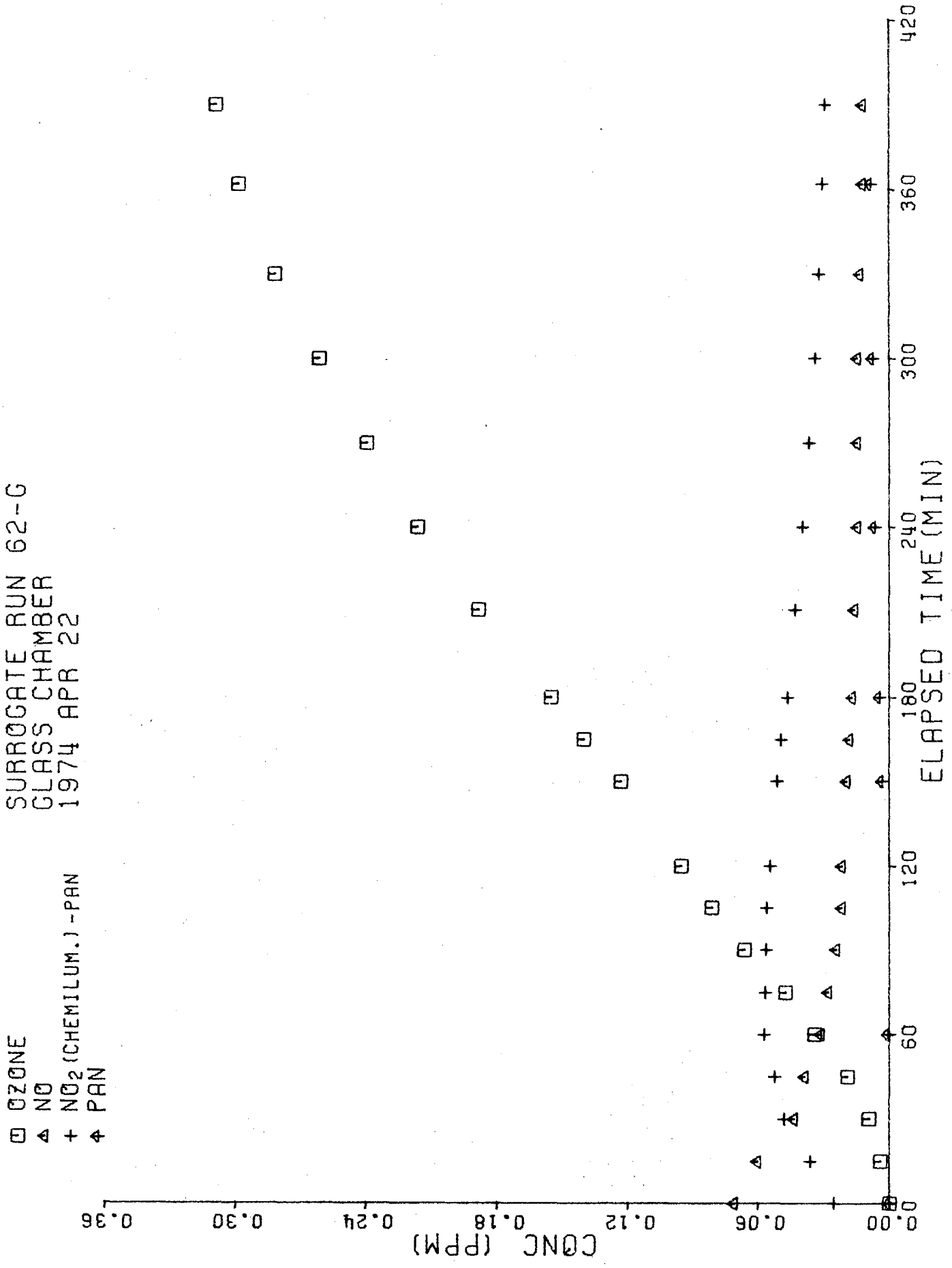

OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
SURROGATE RUN 51-G
GLASS CHAMBER
1974 APR 5
CONC (PPM)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
60
120
180
240
300
360
420
ELAPSED TIME (MIN)

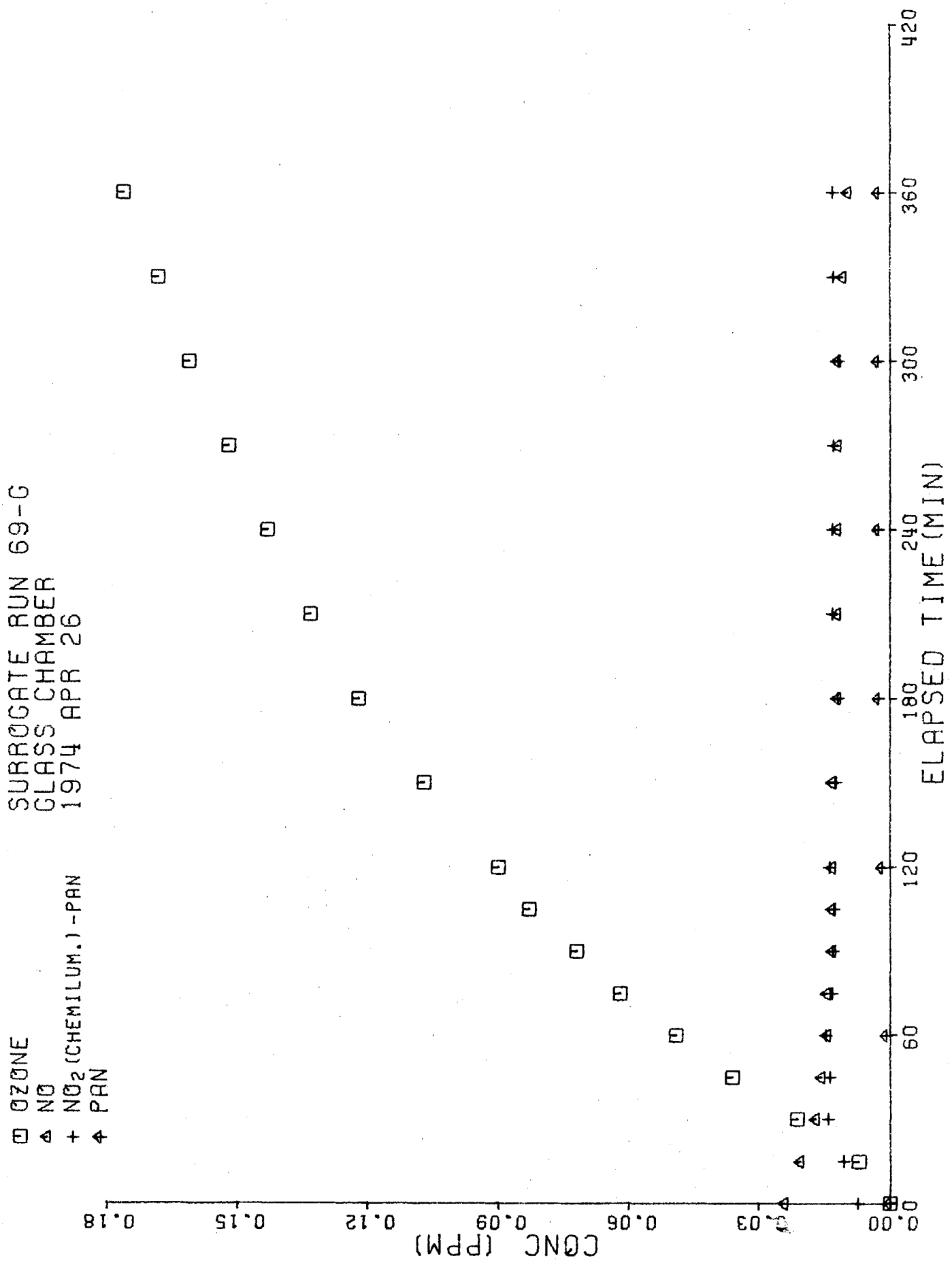

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APR 8
O3 OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
CONC (PPM)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420

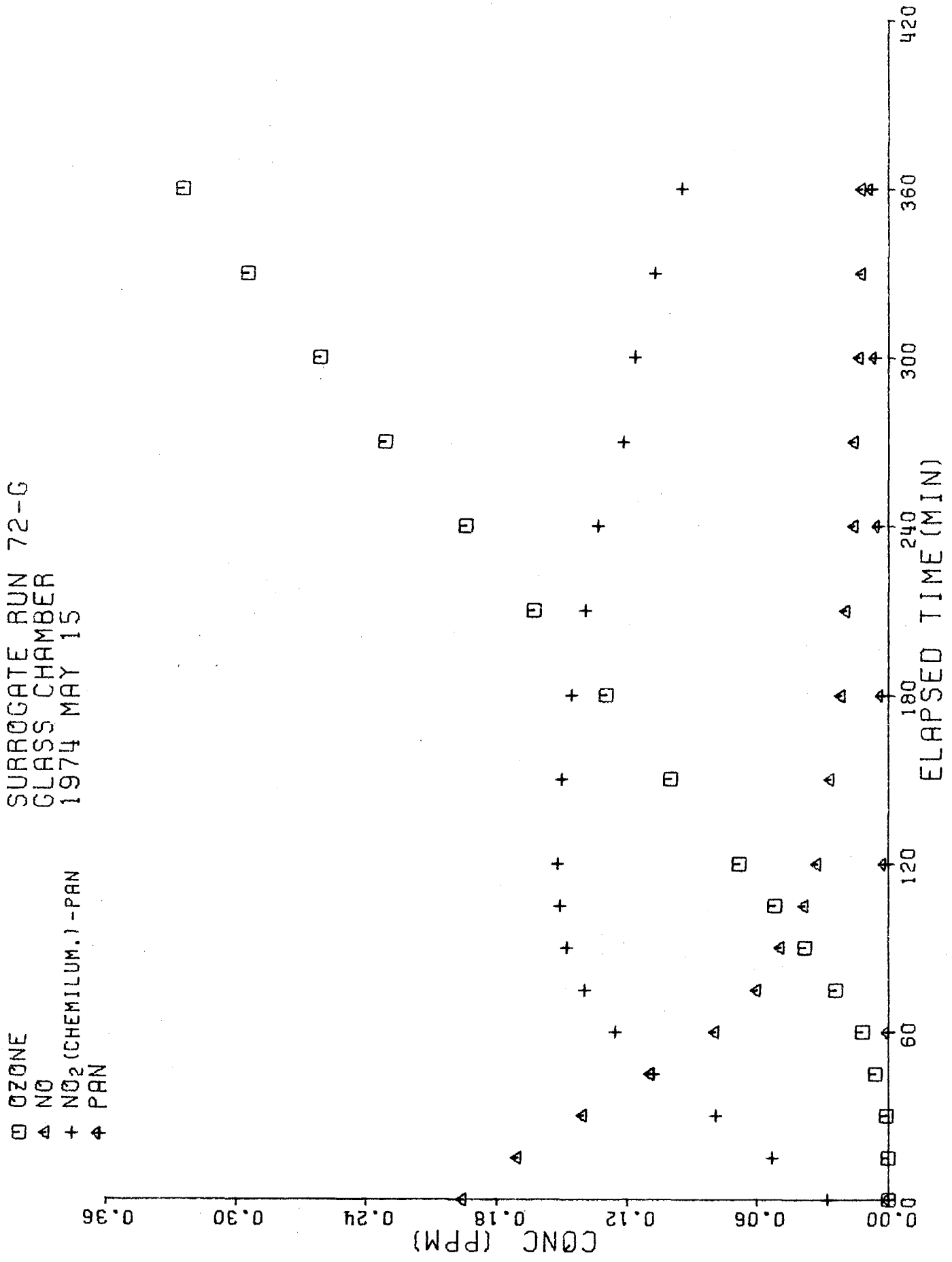

SURROGATE RUN 53-G
GLASS CHAMBER
1974 APR 10
O3 OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
CONC (PPM)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420

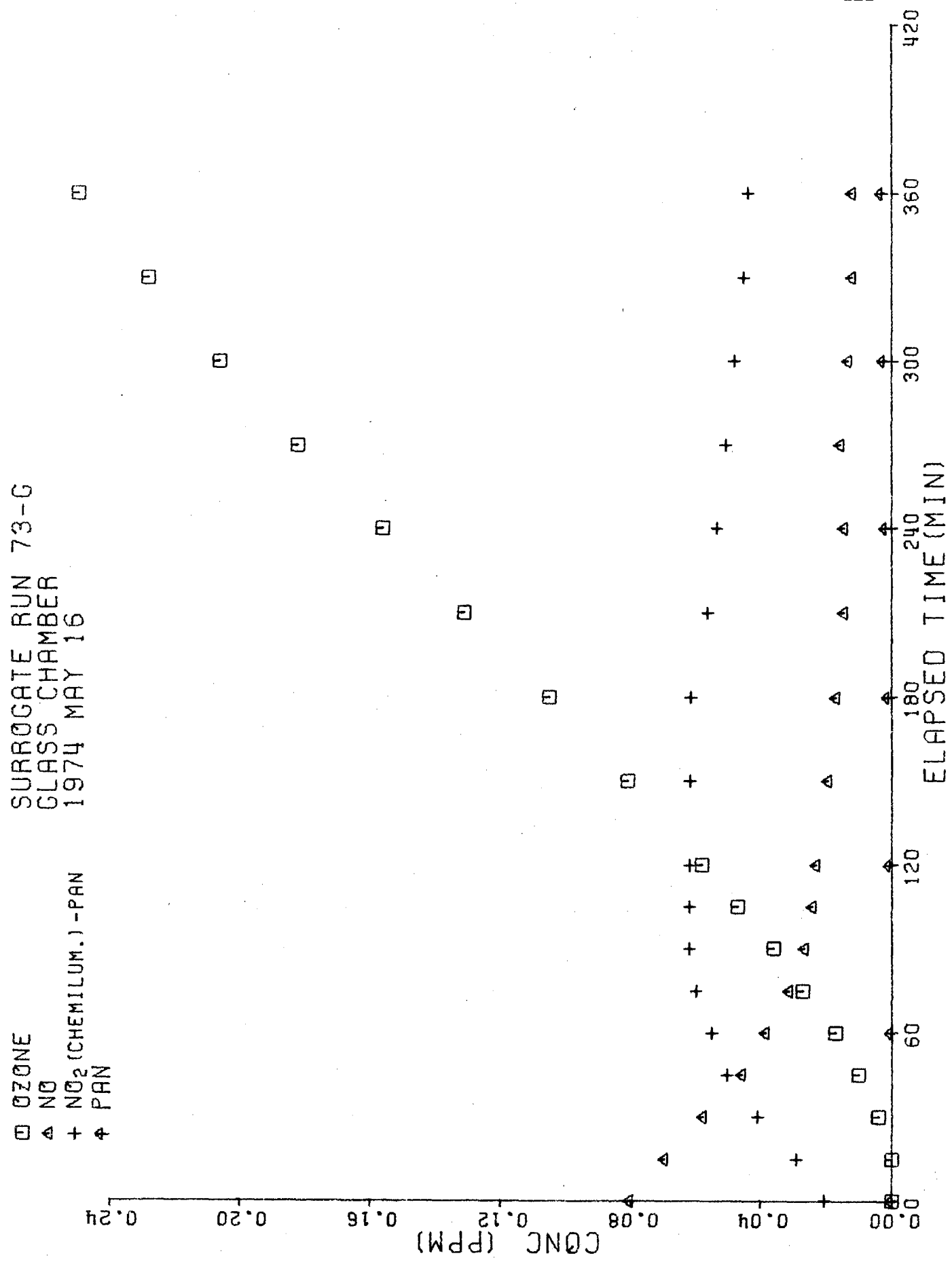

SURROGATE RUN S4-C
GLASS CHAMBER
1974 APR 11
O3 OZONE
NO
NO2 (CHEMILUM.)-PAN
PAN
CONC (PPM)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420


SURROGATE RUN 55-G
GLASS CHAMBER
1974 APR 15
□ OZONE
◁ NO
+ NO_2 (CHEMILUM.)-PAN
◁ PAN
CONC (PPM)
0.00
0.03
0.06
0.09
0.12
0.15
0.18
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420


SURROGATE RUN 62-G
GLASS CHAMBER
1974 APR 22
□ OZONE
◁ NO
+ ◁ NO_2(CHEMILUM.)-PAN
+ ◁ PAN
CONC (PPM)
0.00
0.06
0.12
0.18
0.24
0.30
0.36
ELAPSED TIME(MIN)
0
60
120
180
240
300
360
420


SURROGATE RUN 69-C
GLASS CHAMBER
1974 APR 26
□ OZONE
◁ NO
+ ◁ NO_2 (CHEMILUM.)-PAN
□ PAN
CONC (PPM)
0.00
0.03
0.06
0.09
0.12
0.15
0.18
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420


SURROGATE RUN 72-G
GLASS CHAMBER
1974 MAY 15
□ OZONE
◁ NO
+ NO_2(CHEMILUM.)-PAN
◁ PAN
CONC (PPM)
0.00
0.06
0.12
0.18
0.24
0.30
0.36
ELAPSED TIME(MIN)
0
60
120
180
240
300
360
420


SURROGATE RUN 73-G
GLASS CHAMBER
1974 MAY 16
□ OZONE
◁ NO
+ NO_2 (CHEMILUM.)-PAN
◁ + ◁ PAN
CONC (PPM)
0.00
0.04
0.08
0.12
0.16
0.20
0.24
ELAPSED TIME (MIN)
0
60
120
180
240
300
360
420

APPENDIX C

Detailed Hydrocarbon Data for Surrogate Runs 10-C through 73-G

SURROGATE RUN 10-C
GLASS CHAMBER
1973 JULY 9

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		2560	****	2560	****	2580	****	2380	****	2360	2350	2390
	PPBC	2560	****	2560	****	2580	****	2380	****	2360	2350	2390
ETHENE		42.0	****	40.0	****	36.0	****	32.0	****	30.0	25.0	20.0
	PPBC	84.0	****	80.0	****	72.0	****	64.0	****	60.0	50.0	40.0
ETHANE		60.0	****	64.0	****	62.0	****	60.0	****	64.0	56.0	60.0
	PPBC	120	****	128	****	124	****	120	****	128	112	120
ACETYLENE (POROPAK N)		56.0	****	52.0	****	52.0	****	50.0	****	52.0	50.0	50.0
	PPBC	112	****	104	****	104	****	100	****	104	100	100
PROPANE		14.0	14.0	13.2	14.0	13.6	14.0	13.2	13.8	13.8	14.1	****
	PPBC	42.0	42.0	39.6	42.0	40.8	42.0	39.6	41.4	41.4	42.3	****
PROPENE		13.2	15.2	7.6	6.6	5.2	4.2	3.4	2.8	2.2	1.2	0.7
	PPBC	39.6	45.6	22.8	19.8	15.6	12.6	10.2	8.4	6.6	3.7	2.2
ISOBUTANE		0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6
	PPBC	0.8	0.8	0.4	0.4	0.4	0.4	0.8	1.2	1.6	1.9	2.2
N-BUTANE		123	120	106	117	112	113	****	109	106	102	97.6
	PPBC	493	480	422	467	448	452	****	434	422	406	390
ACETYLENE (DMS)		57.6	56.0	51.2	56.0	52.8	56.0	55.2	54.4	54.4	52.8	51.2
	PPBC	115	112	102	112	106	112	110	109	109	106	102
TRANS-2-BUTENE		0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	1.2	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CIS-2-BUTENE		12.7	9.0	4.2	2.0	0.8	0.4	0.6	0.5	0.5	1.0	1.0
	PPBC	50.8	36.0	16.8	8.0	3.2	1.6	2.4	2.0	2.0	4.0	4.0
2,3-DIMETHYL BUTANE		88.0	88.8	75.2	82.0	77.2	79.6	69.2	70.0	67.2	62.0	58.0
	PPBC	528	533	451	492	463	478	415	420	403	372	348
2-METHYL BUTENE-2		13.4	8.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	67.0	40.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		3.2	****	11.5	****	9.6	****	13.0	****	12.0	19.6	18.0
	PPBC	6.4	****	23.0	****	19.2	****	26.0	****	24.0	39.2	36.0

SURROGATE RUN 10-C
GLASS CHAMBER
1973 JULY 9

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
PROPIONALDEHYDE		0.3	****	0.6	****	1.2	****	1.6	****	2.0	2.4	3.2
	PPBC	0.9	****	1.8	****	3.6	****	4.8	****	6.0	7.2	9.6
ACETONE		1.7	****	9.2	****	19.2	****	20.8	****	22.4	43.6	49.6
	PPBC	5.1	****	27.6	****	57.6	****	62.4	****	67.2	131	149
BENZENE		0.4	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	2.4	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.3	****	1.2	****	1.8	****	2.4	****	2.6	4.0	2.8
	PPBC	1.2	****	4.8	****	7.2	****	9.6	****	10.4	16.0	11.2
TOLUENE		6.1	****	4.9	****	4.2	****	4.1	****	3.8	3.8	3.6
	PPBC	42.7	****	34.3	****	29.4	****	28.7	****	26.6	26.6	25.2
ETHYL BENZENE		2.0	****	0.8	****	1.6	****	2.6	****	3.0	2.6	2.8
	PPBC	16.0	****	6.4	****	12.8	****	20.8	****	24.0	20.8	22.4
META-XYLENE		28.8	****	13.2	****	8.0	****	6.2	****	5.0	4.2	3.2
	PPBC	230	****	106	****	64.0	****	49.6	****	40.0	33.6	25.6
PAN		0.0	****	1.4	****	8.6	****	11.6	****	17.3	20.2	24.9
	PPBC	0.0	****	2.8	****	17.2	****	23.2	****	34.6	40.4	49.8
FORMALDEHYDE		****	****	****	****	****	161	****	****	****	294	323
	PPBC	****	****	****	****	****	161	****	****	****	294	323
3P COL., 2 MIN 40 SEC		****	****	****	****	****	****	1.0	****	2.5	3.0	4.5
3P COL., 3 MIN 20 SEC		****	****	0.8	****	1.0	****	1.6	****	1.8	3.3	3.0
3P COL., 5 MIN 30 SEC		****	****	1.3	****	2.0	****	1.9	****	****	4.3	14.0
3P COL., 7 MIN 0 SEC		****	****	0.3	****	1.1	****	****	****	****	0.8	0.8
TOTAL HC PPBC		4404.9	****	4042.5	****	4063.0	****	3362.5	****	3764.4	4053.7	4049.6
TOTAL NON-METHANE HC		1844.9	1290.6	1482.5	1141.4	1483.0	1259.2	982.5	1016.2	1404.4	1703.7	1659.6
TOTAL SURROGATE		1812.1	1289.8	1415.7	1141.0	1365.0	1097.8	834.9	1015.0	1236.6	1153.4	1056.6

SURROGATE RUN 11-C
GLASS CHAMBER
1973 JULY 10

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		2320	****	2320	****	2290	****	2290	****	2290	2240	2240
	PPBC	2320	****	2320	****	2290	****	2290	****	2290	2240	2240
ETHENE		44.0	****	44.0	****	44.0	****	36.0	****	34.0	30.0	28.0
	PPBC	88.0	****	88.0	****	88.0	****	72.0	****	68.0	60.0	56.0
ETHANE		64.0	****	64.0	****	66.0	****	66.0	****	64.0	64.0	63.0
	PPBC	128	****	128	****	132	****	132	****	128	128	126
ACETYLENE (POROPAK N)		56.0	****	58.0	****	60.0	****	60.0	****	54.0	54.0	54.0
	PPBC	112	****	116	****	120	****	120	****	108	108	108
PROPANE		12.4	16.0	14.8	15.2	15.2	12.8	14.0	14.8	12.6	13.2	14.4
	PPBC	37.2	48.0	44.4	45.6	45.6	38.4	42.0	44.4	37.8	39.6	43.2
PROPENE		13.6	13.2	10.0	8.8	7.6	5.2	5.2	4.4	3.6	2.4	1.8
	PPBC	40.8	39.6	30.0	26.4	22.8	15.6	15.6	13.2	10.8	7.2	5.4
ISOBUTANE		0.2	0.1	0.3	0.5	2.0	1.2	1.2	1.2	2.0	3.2	4.8
	PPBC	0.8	0.4	1.2	2.0	8.0	4.8	4.8	4.8	8.0	12.8	19.2
N-BUTANE		125	128	115	122	120	107	114	114	112	96.0	102
	PPBC	499	512	461	488	480	429	454	454	448	384	410
ACETYLENE (DMS)		59.2	59.2	56.0	56.4	57.6	49.6	54.4	56.0	54.4	48.0	51.2
	PPBC	118	118	112	113	115	99.2	109	112	109	96.0	102
TRANS-2-BUTENE		0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	2.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CIS-2-BUTENE		13.4	11.4	6.8	4.4	2.6	1.6	****	0.8	0.6	1.2	1.2
	PPBC	53.6	45.6	27.2	17.6	10.4	6.4	****	3.0	2.4	4.8	4.8
N-PENTANE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.4
	PPBC	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	2.0
2,3-DIMETHYL BUTANE		94.4	94.4	83.2	85.6	84.0	73.6	76.0	74.8	73.8	62.0	64.0
	PPBC	566	566	499	514	504	442	456	449	443	372	384
2-METHYL BUTENE-2		12.0	11.0	6.0	1.4	2.4	2.0	0.0	0.0	0.0	0.0	0.0
	PPBC	60.0	55.0	30.0	7.0	12.0	10.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 11-C
GLASS CHAMBER
1973 JULY 10

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		****	****	17.2	****	31.2	****	28.0	****	37.6	30.4	29.2
	PPBC	****	****	34.4	****	62.4	****	56.0	****	75.2	60.8	58.4
PROPIONALDEHYDE		****	****	3.6	****	2.0	****	4.0	****	6.4	4.4	4.1
	PPBC	****	****	10.8	****	6.0	****	12.0	****	19.2	13.2	12.3
ACETONE		****	****	32.8	****	19.6	****	36.8	****	****	35.2	51.2
	PPBC	****	****	98.4	****	58.8	****	110	****	****	106	154
METHYL ETHYL KETONE		****	****	2.8	****	2.0	****	4.0	****	4.8	4.2	4.8
	PPBC	****	****	11.2	****	8.0	****	16.0	****	19.2	16.8	19.2
TOLUENE		****	****	10.6	****	7.3	****	8.0	****	7.4	4.0	4.9
	PPBC	****	****	74.2	****	51.1	****	56.0	****	51.8	28.0	34.3
PARA-XYLENE		****	****	4.8	****	4.0	****	4.8	****	10.4	5.6	6.1
	PPBC	****	****	38.4	****	32.0	****	38.4	****	83.2	44.8	48.8
META-XYLENE		****	****	54.4	****	21.6	****	15.2	****	11.2	8.8	7.2
	PPBC	****	****	435	****	173	****	122	****	89.6	70.4	57.6
META-ETHYL TOLUENE		****	****	3.2	****	4.4	****	3.6	****	9.6	4.2	4.6
	PPBC	****	****	28.8	****	39.6	****	32.4	****	86.4	37.8	41.4
PAN		****	****	0.0	****	2.9	****	5.7	****	7.7	10.6	12.5
	PPBC	****	****	0.0	****	5.8	****	11.4	****	15.4	21.2	25.0
FORMALDEHYDE		74.0	****	****	****	175	****	****	****	****	****	291
	PPBC	74.0	****	****	****	175	****	****	****	****	****	291
3P COL., 2 MIN 40 SEC		****	****	****	****	****	****	3.0	****	6.0	10.0	10.5
3P COL., 3 MIN 20 SEC		****	****	4.5	****	2.0	****	3.5	****	3.5	3.7	4.0
3P COL., 4 MIN 10 SEC		****	****	1.3	****	1.0	****	3.0	****	9.2	2.0	5.0
3P COL., 5 MIN 30 SEC		****	****	6.5	****	6.0	****	10.0	****	21.0	6.0	13.0
TOTAL HC PPBC		3986.6	****	4474.2	****	4321.9	****	4035.4	****	3984.2	3750.5	4137.0
TOTAL NON-METHANE HC		1666.6	1387.4	2154.2	1213.0	2031.9	1044.8	1745.4	1081.6	1694.2	1510.5	1897.0
TOTAL SURROGATE		1590.8	1387.0	1931.0	1211.0	1636.3	1040.0	1464.0	1075.8	1387.6	1196.0	1226.1

SURROGATE RUN 12-C
GLASS CHAMBER
1973 JULY 11

NOISY SIGNALS FROM DMS COLUMN
ROOM 123 PN AND DMS COLUMNS USED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1115	1205	1235	1335	1435	1535	1635	1730
ELAPSED TIME(MIN)		0	50	80	140	200	260	320	375
		CONCENTRATIONS (PPB)							
METHANE		2420	****	2420	2420	2420	2420	2420	2420
	PPBC	2420	****	2420	2420	2420	2420	2420	2420
ETHENE		55.0	****	50.0	45.0	40.0	38.0	36.0	36.0
	PPBC	110	****	100	90.0	80.0	76.0	72.0	72.0
ETHANE		95.0	****	90.0	90.0	90.0	90.0	90.0	90.0
	PPBC	190	****	180	180	180	180	180	180
ACETYLENE (POROPAK N)		65.0	****	64.0	62.0	60.0	60.0	60.0	60.0
	PPBC	130	****	128	124	120	120	120	120
PROPANE		36.0	35.6	34.6	34.6	36.4	28.1	28.0	28.0
	PPBC	108	107	104	104	109	84.3	84.0	84.0
PROPENE		16.4	14.3	12.7	7.5	6.7	3.8	3.5	2.2
	PPBC	49.2	42.9	38.1	22.5	20.1	11.4	10.5	6.6
ISOBUTANE		0.8	0.8	0.8	1.0	1.5	1.2	1.0	1.0
	PPBC	3.2	3.2	3.2	4.0	6.0	4.8	4.0	4.0
N-BUTANE		144	144	143	138	136	122	116	113
	PPBC	576	576	572	552	544	488	464	452
ACETYLENE (DMS)		69.0	65.9	65.9	63.2	58.6	58.6	58.6	58.4
	PPBC	138	132	132	126	117	117	117	117
ISOPENTANE		0.0	0.0	0.0	0.7	0.8	1.0	1.0	1.0
	PPBC	0.0	0.0	0.0	3.5	4.0	5.0	5.0	5.0
CIS-2-BUTENE		18.1	14.7	6.8	2.3	1.5	0.2	0.0	0.0
	PPBC	72.4	58.8	27.2	9.2	6.0	0.8	0.0	0.0
2,3-DIMETHYL BUTANE		117	115	113	96.7	94.9	90.0	84.1	83.0
	PPBC	702	690	678	580	569	540	505	498
2-METHYL BUTENE-2		18.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	92.5	16.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		****	****	9.0	****	****	****	****	****
	PPBC	****	****	18.0	****	****	****	****	****

SURROGATE RUN 12-C
GLASS CHAMBER
1973 JULY 11

CLOCK TIME		1115	1205	1235	1335	1435	1535	1635	1730
ELAPSED TIME(MIN)		0	50	80	140	200	260	320	375
PROPIONALDEHYDE		****	****	2.8	****	****	****	****	****
	PPBC	****	****	8.4	****	****	****	****	****
ACETONE		****	****	10.8	****	****	****	****	****
	PPBC	****	****	32.4	****	****	****	****	****
METHYL ETHYL KETONE		****	****	1.2	****	****	****	****	****
	PPBC	****	****	4.8	****	****	****	****	****
TOLUENE		****	****	6.3	****	****	****	****	****
	PPBC	****	****	44.1	****	****	****	****	****
META-XYLENE		****	****	16.0	****	****	****	****	****
	PPBC	****	****	128	****	****	****	****	****
META-ETHYL TOLUENE		****	****	2.4	****	****	****	****	****
	PPBC	****	****	21.6	****	****	****	****	****
PAN		****	****	0.0	2.9	3.8	6.1	8.6	10.2
	PPBC	****	****	0.0	5.8	7.6	12.2	17.2	20.4
FORMALDEHYDE		90.0	****	****	****	****	234	****	292
	PPBC	90.0	****	****	****	****	234	****	292
3P COL., 2 MIN 40 SEC		****	****	6.0	****	****	****	****	****
TOTAL HC PPBC		4547.3	****	4509.5	4096.2	4064.9	4175.1	3879.9	4152.4
TOTAL NON-METHANE HC		2127.3	1625.5	2089.5	1676.2	1644.9	1755.1	1459.9	1732.4
TOTAL SURROGATE		2034.1	1622.3	2001.1	1662.9	1627.3	1499.1	1433.7	1411.0

SURROGATE RUN 13-C
GLASS CHAMBER
1973 JULY 12

RCOM 123 PN AND DMS COLUMNS USED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1045	1130	1200	1300	1400	1500	1600	1630	1700
ELAPSED TIME(MIN)		0	45	75	135	195	255	315	345	375
		CONCENTRATIONS (PPB)								
METHANE		2640	2640	2640	2640	2640	2640	2640	****	2640
	PPBC	2640	2640	2640	2640	2640	2640	2640	****	2640
ETHENE		60.0	60.0	58.0	55.0	50.0	40.0	36.0	****	30.0
	PPBC	120	120	116	110	100	80.0	72.0	****	60.0
ETHANE		100	100	100	100	100	100	95.0	****	90.0
	PPBC	200	200	200	200	200	200	190	****	180
ACETYLENE (POROPAK N)		72.0	70.0	70.0	65.0	62.0	60.0	55.0	****	55.0
	PPBC	144	140	140	130	124	120	110	****	110
PROPANE		41.0	40.0	39.5	39.5	35.6	32.4	29.5	****	25.2
	PPBC	123	120	119	119	107	97.2	88.5	****	75.6
PROPENE		17.9	14.8	11.4	7.3	4.6	2.2	0.8	****	0.7
	PPBC	53.7	44.4	34.2	21.9	13.8	6.6	2.4	****	2.1
ISOBUTANE		0.8	0.8	0.9	0.9	1.0	1.0	1.0	****	1.5
	PPBC	3.2	3.2	3.6	3.6	4.0	4.0	4.0	****	6.0
N-BUTANE		150	150	141	141	130	114	101	****	93.0
	PPBC	601	601	564	564	518	454	404	****	372
ACETYLENE (DMS)		67.9	67.9	65.8	65.8	61.4	54.9	51.2	****	46.8
	PPBC	136	136	132	132	123	110	102	****	93.6
TRANS-2-BUTENE		1.1	1.1	0.0	0.0	0.0	0.0	0.0	****	0.0
	PPBC	4.4	4.4	0.0	0.0	0.0	0.0	0.0	****	0.0
ISOPENTANE		0.0	0.0	0.5	0.5	1.0	1.0	1.0	****	1.0
	PPBC	0.0	0.0	2.5	2.5	5.0	5.0	5.0	****	5.0
CIS-2-BUTENE		16.6	12.1	5.3	0.0	0.0	0.0	0.0	****	0.0
	PPBC	66.4	48.4	21.2	0.0	0.0	0.0	0.0	****	0.0
2,3-DIMETHYL BUTANE		127	117	109	106	96.0	85.0	75.0	****	73.0
	PPBC	762	699	651	633	576	510	450	****	438
2-METHYL BUTENE-2		17.4	5.5	0.0	0.0	0.0	0.0	0.0	****	0.0
	PPBC	87.0	27.5	0.0	0.0	0.0	0.0	0.0	****	0.0

SURROGATE RUN 13-C
GLASS CHAMBER
1973 JULY 12

CLOCK TIME		1045	1130	1200	1300	1400	1500	1600	1630	1700
ELAPSED TIME(MIN)		0	45	75	135	195	255	315	345	375
ACETALDEHYDE		****	****	****	****	****	****	****	14.4	****
	PPBC	****	****	****	****	****	****	****	28.8	****
PROPIONALDEHYDE		****	****	****	****	****	****	****	4.8	****
	PPBC	****	****	****	****	****	****	****	14.4	****
ACETONE		****	****	****	****	****	****	****	26.9	****
	PPBC	****	****	****	****	****	****	****	80.7	****
METHYL ETHYL KETONE		****	****	****	****	****	****	****	3.2	****
	PPBC	****	****	****	****	****	****	****	12.8	****
TOLUENE		****	****	****	****	****	****	****	5.0	****
	PPBC	****	****	****	****	****	****	****	35.0	****
PARA-XYLENE		****	****	****	****	****	****	****	3.0	****
	PPBC	****	****	****	****	****	****	****	24.0	****
META-XYLENE		****	****	****	****	****	****	****	4.8	****
	PPBC	****	****	****	****	****	****	****	38.4	****
N-PROPYL BENZENE		****	****	****	****	****	****	****	0.4	****
	PPBC	****	****	****	****	****	****	****	3.6	****
PARA-ETHYL TOLUENE		****	****	****	****	****	****	****	3.6	****
	PPBC	****	****	****	****	****	****	****	32.4	****
PAN		0.0	0.0	2.8	9.6	17.3	19.2	23.1	****	26.9
	PPBC	0.0	0.0	5.6	19.2	34.6	38.4	46.2	****	53.8
FORMALDEHYDE		89.0	****	****	****	****	****	****	****	224
	PPBC	89.0	****	****	****	****	****	****	****	224
3P COL., 2 MIN 40 SEC		****	****	****	****	****	****	****	188	****
3P COL., 4 MIN 5 SEC		****	****	****	****	****	****	****	8.0	****
3P COL., 5 MIN 0 SEC		****	****	****	****	****	****	****	8.0	****
3P COL., 7 MIN 0 SEC		****	****	****	****	****	****	****	8.0	****
TOTAL HC PPBC		4889.4	4645.6	4492.4	4443.5	4321.6	4150.1	4008.3	****	4158.3
TOTAL NON-METHANE HC		2249.4	2005.6	1852.4	1803.5	1681.6	1510.1	1368.3	270.1	1518.3
TOTAL SURROGATE		2157.2	2002.4	1840.7	1778.2	1638.0	1462.7	1313.1	73.4	1229.5

SURROGATE RUN 15-C
GLASS CHAMBER
1973JULY16

OXYGENATES AND AROMATICS NOT MEASURED.
RCOM 123 PN AND DMS COLUMNS USED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1330	1430	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	120	180	240	300	360
		CONCENTRATIONS (PPB)							
METHANE		2610	2610	2610	2610	2610	2610	2610	2610
	PPBC	2610	2610	2610	2610	2610	2610	2610	2610
ETHENE		60.0	60.0	60.0	40.0	40.0	36.0	30.0	30.0
	PPBC	120	120	120	80.0	80.0	72.0	60.0	60.0
ETHANE		100	100	100	100	100	100	95.0	95.0
	PPBC	200	200	200	200	200	200	190	190
ACETYLENE (POROPAK N)		70.0	70.0	70.0	70.0	70.0	70.0	60.0	60.0
	PPBC	140	140	140	140	140	140	120	120
PROPANE		43.0	41.2	40.5	40.0	39.4	39.0	34.3	28.7
	PPBC	129	124	122	120	118	117	103	86.1
PROPENE		17.8	13.5	10.2	6.1	2.8	1.3	1.1	0.7
	PPBC	53.4	40.5	30.6	18.3	8.4	3.9	3.3	2.1
ISOBUTANE		1.6	1.1	1.1	1.1	1.0	1.0	1.0	1.0
	PPBC	6.4	4.4	4.4	4.4	4.0	4.0	4.0	4.0
N-BUTANE		155	147	146	142	140	132	118	112
	PPBC	620	588	584	568	560	528	472	448
ACETYLENE (DMS)		71.3	70.0	65.0	64.0	64.0	64.0	60.2	58.2
	PPBC	143	140	130	128	128	128	120	116
TRANS-2-BUTENE		1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0
	PPBC	4.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.7	0.5	0.5	0.5	0.6	0.7	0.9	0.9
	PPBC	3.5	2.5	2.5	2.5	3.0	3.5	4.5	4.5
CIS-2-BUTENE		19.7	11.2	3.8	0.4	0.0	0.0	0.0	0.0
	PPBC	78.8	44.8	15.2	1.6	0.0	0.0	0.0	0.0
2,3-DIMETHYL BUTANE		110	103	99.0	91.8	81.0	74.2	71.0	61.3
	PPBC	660	618	594	551	486	445	426	368
2-METHYL BUTENE-2		18.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	90.5	30.5	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 15-C
GLASS CHAMBER
1973JULY16

CLOCK TIME		1130	1200	1230	1330	1430	1530	1630	1730
ELAPSED TIME(MIN)		0	30	60	120	180	240	300	360
PAN		****	****	8.6	14.8	17.8	20.5	22.0	21.5
	PPBC	****	****	17.2	29.6	35.6	41.0	44.0	43.0
FORMALDEHYDE		86.0	****	****	****	107	****	****	215
	PPBC	86.0	****	****	****	107	****	****	215
TOTAL HC PPBC		4803.3	4523.9	4435.2	4319.2	4346.2	4158.6	4036.9	4148.7
TOTAL NON-METHANE HC		2193.3	1913.9	1825.2	1709.2	1736.2	1548.6	1426.9	1538.7
TOTAL SURROGATE		2097.4	1907.0	1801.1	1672.7	1586.6	1500.1	1374.4	1272.2

SURROGATE RUN 16-C
GLASS CHAMBER
1973 JULY 17

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1025	1055	1125	1155	1225	1255	1325	1355	1425	1525	1625
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		2660	****	2640	****	2610	****	2590	****	2590	2590	2610
	PPBC	2660	****	2640	****	2610	****	2590	****	2590	2590	2610
ETHENE		52.0	****	44.0	****	44.0	****	44.0	****	40.0	36.0	36.0
	PPBC	104	****	88.0	****	88.0	****	88.0	****	80.0	72.0	72.0
ETHANE		80.0	****	64.0	****	66.0	****	60.0	****	62.0	60.0	66.0
	PPBC	160	****	128	****	132	****	120	****	124	120	132
ACETYLENE (POROPAK N)		64.0	****	52.0	****	52.0	****	52.0	****	52.0	52.0	54.0
	PPBC	128	****	104	****	104	****	104	****	104	104	108
PROPANE		18.4	18.0	18.0	16.8	16.4	16.4	16.4	16.4	16.4	16.4	16.4
	PPBC	55.2	54.0	54.0	50.4	49.2	49.2	49.2	49.2	49.2	49.2	49.2
PROPENE		14.0	13.3	12.6	11.4	10.0	9.6	9.2	8.6	7.6	6.0	5.0
	PPBC	42.0	39.9	37.8	34.2	30.0	28.8	27.6	25.8	22.8	18.0	15.0
ISOBUTANE		0.2	0.3	7.4	0.5	0.2	0.4	0.4	0.4	0.4	0.5	0.5
	PPBC	0.8	1.2	29.6	2.0	0.8	1.6	1.6	1.6	1.6	2.0	2.0
N-BUTANE		129	129	122	115	115	115	115	115	115	111	109
	PPBC	515	515	486	461	461	461	460	460	460	442	436
ACETYLENE (DMS)		60.9	54.4	54.4	51.2	49.7	49.7	49.7	49.7	49.7	49.7	49.7
	PPBC	122	109	109	102	99.4	99.4	99.4	99.4	99.4	99.4	99.4
TRANS-2-BUTENE		0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CIS-2-BUTENE		13.2	12.2	10.0	6.2	5.6	4.0	2.4	1.6	0.5	1.0	1.0
	PPBC	52.8	48.8	40.0	24.8	22.4	16.0	9.6	6.4	2.0	4.0	4.0
2,3-DIMETHYL BUTANE		138	86.4	84.8	78.4	77.6	77.4	77.2	77.0	76.8	68.9	72.0
	PPBC	830	518	509	470	466	464	463	462	461	413	432
2-METHYL BUTENE-2		16.4	9.0	6.4	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	82.0	45.0	32.0	15.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		0.6	7.3	29.6	32.0	32.5	32.5	35.0	36.0	36.5	38.0	38.5
	PPBC	1.2	14.6	59.2	64.0	65.0	65.0	70.0	72.0	73.0	76.0	77.0

SURROGATE RUN 16-C
GLASS CHAMBER
1973 JULY 17

CLOCK TIME		1025	1055	1125	1155	1225	1255	1325	1355	1425	1525	1625
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
PROPIONALDEHYDE		1.6	0.6	3.2	3.0	2.2	3.2	4.8	5.0	3.8	2.4	3.0
	PPBC	4.8	1.8	9.6	9.0	6.6	9.6	14.4	15.0	11.4	7.2	9.0
ACETONE		6.8	8.4	35.2	31.2	25.6	24.0	19.2	36.0	33.6	33.6	43.2
	PPBC	20.4	25.2	106	93.6	76.8	72.0	57.6	108	101	101	130
METHYL ETHYL KETONE		0.4	0.8	0.9	1.6	1.6	1.6	1.6	3.2	2.4	4.0	4.8
	PPBC	1.6	3.2	3.6	6.4	6.4	6.4	6.4	12.8	9.6	16.0	19.2
TOLUENE		9.6	11.2	11.2	11.2	10.4	9.6	9.6	9.6	10.4	9.6	8.8
	PPBC	67.2	78.4	78.4	78.4	72.8	67.2	67.2	67.2	72.8	67.2	61.6
ETHYL BENZENE		0.0	1.2	3.2	3.2	1.6	4.0	4.0	6.0	4.8	4.0	3.2
	PPBC	0.0	9.6	25.6	25.6	12.8	32.0	32.0	48.0	32.0	32.0	25.6
PARA-XYLENE		3.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	25.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
META-XYLENE		29.6	83.2	35.2	29.0	27.0	27.2	24.0	24.0	25.6	20.0	14.4
	PPBC	237	666	282	232	216	218	192	192	205	160	115
ORTHO-XYLENE		0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PROPYL BENZENE		0.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	1.8	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PARA-ETHYL TOLUENE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
META-ETHYL TOLUENE		1.0	0.8	0.8	1.4	1.5	1.6	1.7	2.1	2.3	2.6	2.0
	PPBC	9.0	7.2	7.2	12.6	13.5	14.4	15.3	18.9	20.7	23.4	18.0
PAN		****	****	0.0	****	2.0	****	3.0	****	4.0	5.0	6.0
	PPBC	****	****	0.0	****	4.0	****	6.0	****	8.0	10.0	12.0
FORMALDEHYDE		48.0	****	****	****	88.0	****	****	****	167	****	230
	PPBC	48.0	****	****	****	88.0	****	****	****	167	****	230
3P COL., 2 MIN 40 SEC		46.0	10.0	20.0	8.0	20.0	25.0	72.0	72.0	76.0	80.0	92.0
3P COL., 4 MIN 5 SEC		4.0	4.0	4.0	32.0	16.0	92.0	104	96.0	56.0	32.0	48.0
3P COL., 4 MIN 55 SEC		0.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
3P COL., 5 MIN 30 SEC		4.0	4.0	32.0	16.0	12.0	28.0	28.0	40.0	32.0	40.0	32.0
3P COL., 33 MIN 40 SEC		20.0	****	****	32.0	****	****	****	****	****	****	****
TOTAL HC PPBC		5046.7	****	4721.4	****	4524.9	****	4371.8	****	4592.2	4304.9	4552.7
TOTAL NON-METHANE HC		2386.7	2158.9	2081.4	1681.6	1914.9	1604.4	1781.8	1638.3	2002.2	1714.9	1942.7
TOTAL SURROGATE		2271.7	2075.3	1841.0	1468.4	1641.0	1403.4	1578.5	1362.0	1578.1	1447.5	1420.3

SURROGATE RUN 17-C
GLASS CHAMBER
1973 JULY 18

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	240	300	360
		CONCENTRATIONS (PPB)									
METHANE		2690	****	2700	****	2700	****	2680	2640	2680	2680
	PPBC	2690	****	2700	****	2700	****	2680	2640	2680	2680
ETHENE		46.0	****	40.0	****	32.0	****	32.0	30.0	26.0	24.0
	PPBC	92.0	****	80.0	****	64.0	****	64.0	60.0	52.0	48.0
ETHANE		64.0	****	66.0	****	64.0	****	64.0	64.0	62.0	54.0
	PPBC	128	****	132	****	128	****	128	128	124	108
ACETYLENE (PORAPAK N)		52.0	****	52.0	****	54.0	****	50.0	54.0	50.0	50.0
	PPBC	104	****	104	****	108	****	100	108	100	100
PROPANE		18.0	18.0	12.6	17.4	17.4	17.4	16.0	15.8	15.2	14.2
	PPBC	54.0	54.0	37.8	52.2	52.2	52.2	48.0	47.4	45.6	42.6
PROPENE		13.6	10.4	7.9	6.4	5.2	3.9	2.8	1.6	0.8	0.6
	PPBC	40.8	31.2	23.7	19.2	15.6	11.7	8.4	4.8	2.4	1.8
ISOBUTANE		1.2	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.6
	PPBC	4.8	1.6	3.2	1.6	3.2	1.6	1.6	1.6	1.6	2.4
N-BUTANE		128	123	118	114	114	113	108	104	95.2	97.6
	PPBC	512	491	473	455	455	451	432	416	381	390
ACETYLENE (DMS)		57.6	57.6	56.8	56.0	56.0	54.4	51.2	49.7	48.0	48.0
	PPBC	115	115	114	112	112	109	102	99.4	96.0	96.0
ISOBUTENE		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TRANS-2-BUTENE		0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.2	0.7	0.8	0.9	0.9	1.0
	PPBC	0.0	0.0	0.0	0.0	1.0	3.5	4.0	4.5	4.5	5.0
CIS-2-BUTENE		13.8	7.2	2.4	1.2	0.7	0.0	0.0	0.0	0.0	0.0
	PPBC	55.2	28.8	9.6	4.8	2.8	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	PPBC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

SURROGATE RUN 17-C
GLASS CHAMBER
1973 JULY 18

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	240	300	360
2,3-DIMETHYL BUTANE		86.4	84.0	79.2	77.2	****	72.0	68.0	63.2	58.0	58.0
	PPBC	518	504	475	463	****	432	408	379	348	348
2-METHYL BUTENE-2		11.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	59.5	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		****	****	****	****	****	****	****	7.2	7.2	10.4
	PPBC	****	****	****	****	****	****	****	14.4	14.4	20.8
PROPIONALDEHYDE		****	****	****	****	****	****	****	3.2	6.0	6.4
	PPBC	****	****	****	****	****	****	****	9.6	18.0	19.2
ACETONE		****	****	****	****	****	****	****	31.2	48.0	41.5
	PPBC	****	****	****	****	****	****	****	93.6	144	125
METHYL ETHYL KETONE		****	****	****	****	****	****	****	2.4	4.4	4.8
	PPBC	****	****	****	****	****	****	****	9.6	17.6	19.2
TOLUENE		****	****	****	****	****	****	****	7.2	9.6	8.0
	PPBC	****	****	****	****	****	****	****	50.4	67.2	56.0
ETHYL BENZENE		****	****	****	****	****	****	****	0.4	0.2	0.4
	PPBC	****	****	****	****	****	****	****	3.2	1.6	3.2
PARA-XYLENE		****	****	****	****	****	****	****	2.8	5.9	7.2
	PPBC	****	****	****	****	****	****	****	22.4	47.2	57.6
META-XYLENE		****	****	****	****	****	****	****	9.2	10.8	9.2
	PPBC	****	****	****	****	****	****	****	73.6	86.4	73.6
ORTHO-XYLENE		****	****	****	****	****	****	****	0.8	0.4	0.4
	PPBC	****	****	****	****	****	****	****	6.4	3.2	3.2
META-ETHYL TOLUENE		****	****	****	****	****	****	****	3.2	11.6	6.8
	PPBC	****	****	****	****	****	****	****	28.8	104	61.2
PAN		****	****	7.7	****	13.4	****	****	19.2	19.6	19.6
	PPBC	****	****	15.4	****	26.8	****	****	38.4	39.2	39.2
FORMALDEHYDE		80.0	****	****	****	117	****	****	195	****	265
	PPBC	80.0	****	****	****	117	****	****	195	****	265
3P COL., 2 MIN 40 SEC		****	****	****	****	****	****	****	88.0	96.0	152
3P COL., 4 MIN. 5 SEC.		****	****	****	****	****	****	****	8.0	24.0	16.0
3P COL., 5 MIN. 0 SEC.		****	****	****	****	****	****	****	4.0	4.0	6.0
3P COL., 6 MIN. 55 SEC.		****	****	****	****	****	****	****	8.0	9.0	8.0
TOTAL HC PPBC		4348.1	****	4059.5	****	3676.4	****	3876.2	4331.6	4281.1	4467.9
TOTAL NON-METHANE HC		1658.1	1245.0	1359.5	1108.8	976.4	1062.0	1196.2	1691.6	1601.1	1787.9

SURROGATE RUN 17-C
GLASS CHAMBER
1973 JULY 18

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1430	1530	1630
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	240	300	360
TOTAL SURROGATE	1571.9	1242.4	1339.9	1106.2	827.4	1055.9	1189.6	1263.1	1204.4	1166.4

SURROGATE RUN 18
GLASS CHAMBER
1973 JULY 19

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		2750	****	2750	****	2700	****	2700	****	2670	2620	2610
	PPBC	2750	****	2750	****	2700	****	2700	****	2670	2620	2610
ETHENE		46.0	****	42.0	****	36.0	****	34.0	****	28.0	28.0	26.0
	PPBC	92.0	****	84.0	****	72.0	****	68.0	****	56.0	56.0	52.0
ETHANE		66.0	****	66.0	****	64.0	****	66.0	****	64.0	62.0	60.0
	PPBC	132	****	132	****	128	****	132	****	128	124	120
ACETYLENE (POROPAK N)		56.0	****	56.0	****	52.0	****	54.0	****	52.0	54.0	52.0
	PPBC	112	****	112	****	104	****	108	****	104	108	104
PROPANE		18.6	18.4	17.8	17.8	17.8	17.6	17.2	18.2	18.6	16.4	16.4
	PPBC	55.8	55.2	53.4	53.4	53.4	52.8	51.6	54.6	55.8	49.2	49.2
PROPENE		14.0	10.4	8.2	7.2	5.9	4.6	3.6	3.6	2.8	1.5	1.0
	PPBC	42.0	31.2	24.6	21.6	17.7	13.8	10.8	10.8	8.4	4.5	3.0
ISOBUTANE		0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.0	0.4
	PPBC	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.7	0.0	1.6
N-BUTANE		128	125	120	120	120	117	114	115	117	118	101
	PPBC	512	500	480	480	479	467	454	461	467	472	403
ACETYLENE (DMS)		57.6	57.6	54.4	54.4	54.4	54.4	52.9	54.4	47.6	52.8	51.2
	PPBC	115	115	109	109	109	109	106	109	95.2	106	102
TRANS-2-BUTENE		0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	2.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CIS-2-BUTENE		13.5	7.4	3.0	1.1	0.8	0.8	0.9	0.6	0.8	1.0	1.2
	PPBC	54.0	29.6	12.0	4.4	3.2	3.2	3.6	2.4	3.2	4.0	4.8
N-PENTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.5
	PPBC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.5
2,3-DIMETHYL BUTANE		92.0	88.8	84.0	81.6	80.8	76.0	72.0	71.2	72.0	68.8	62.4
	PPBC	552	533	504	490	485	456	432	427	432	413	374
2-METHYL BUTENE-2		14.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	70.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 18
GLASS CHAMBER
1973 JULY 19

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		2.6	****	12.8	22.4	10.0	11.2	15.2	12.8	24.8	20.8	0.0
	PPBC	5.2	****	25.6	44.8	20.0	22.4	30.4	25.6	49.6	41.6	0.0
PROPIONALDEHYDE		0.8	1.2	3.0	6.4	5.6	2.0	2.4	2.0	2.4	3.6	0.0
	PPBC	2.4	3.6	9.0	19.2	16.8	6.0	7.2	6.0	7.2	10.8	0.0
ACETONE		2.4	14.0	24.0	26.0	20.8	23.2	28.0	42.4	38.4	44.0	0.0
	PPBC	7.2	42.0	72.0	78.0	62.4	69.6	84.0	127	115	132	0.0
METHYL ETHYL KETONE		0.4	2.4	2.4	1.6	2.0	2.4	4.0	4.0	5.6	4.5	0.0
	PPBC	1.4	9.6	9.6	6.4	8.0	9.6	16.0	16.0	22.4	18.0	0.0
TOLUENE		9.5	10.2	10.4	10.0	7.6	8.7	9.2	7.6	8.8	7.4	0.0
	PPBC	66.5	71.4	72.8	70.0	53.2	60.9	64.4	53.2	61.6	51.8	0.0
ETHYL BENZENE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.6	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	36.8	0.0
PARA-XYLENE		0.0	1.6	2.0	1.6	3.2	2.4	3.2	3.2	5.6	3.2	0.0
	PPBC	0.0	12.8	16.0	12.8	25.6	19.2	25.6	25.6	44.8	25.6	0.0
META-XYLENE		29.6	25.6	25.6	20.8	14.8	16.8	16.8	12.0	12.8	9.2	0.0
	PPBC	237	205	205	166	118	134	134	96.0	102	73.6	0.0
META-ETHYL TOLUENE		0.0	2.0	2.0	2.0	****	2.6	3.6	3.0	4.6	2.6	0.0
	PPBC	0.0	18.0	18.0	18.0	****	23.4	32.4	27.0	41.4	23.4	0.0
PAN		****	****	8.5	****	12.3	****	14.2	14.2	13.3	13.3	0.0
	PPBC	****	****	17.0	****	24.6	****	28.4	28.4	26.6	26.6	0.0
FORMALDEHYDE		0.0	****	****	****	106	****	****	152	****	236	0.0
	PPBC	0.0	****	****	****	106	****	****	152	****	236	0.0
3P COL., 2 MIN 40 SEC		0.3	1.0	****	****	2.5	4.0	5.0	6.5	16.3	12.0	0.0
3P COL., 3 MIN. 20 SEC.		0.7	****	1.0	2.0	0.5	2.0	2.0	2.0	5.0	3.6	0.0
3P COL., 5 MIN. 25 SEC.		****	2.0	5.0	6.0	3.0	3.5	4.5	3.5	6.5	5.0	0.0
3P COL., 6 MIN. 50 SEC.		****	****	****	1.0	0.5	0.5	0.5	1.0	1.0	1.0	0.0
TOTAL HC PPBC		4697.9	****	4597.4	****	4482.3	****	4384.3	****	4414.3	4527.5	3723.9
TOTAL NON-METHANE HC		1947.9	1645.4	1847.4	1575.6	1782.3	1449.5	1684.3	1624.7	1744.3	1907.5	1113.9
TOTAL SURROGATE		1929.5	1557.2	1678.0	1394.2	1516.3	1296.7	1457.7	1213.8	1414.2	1354.7	1109.8

SURROGATE RUN 19-E
GLASS CHAMBER
1973 OCT 2

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1920	****	****	****	1920	****	****	****	1920	****	1920
	PPBC	1920	****	****	****	1920	****	****	****	1920	****	1920
ETHENE		50.0	****	****	****	45.0	****	****	****	40.0	****	36.0
	PPBC	100	****	****	****	90.0	****	****	****	80.0	****	72.0
ETHANE		72.0	****	****	****	70.0	****	****	****	68.0	****	60.0
	PPBC	144	****	****	****	140	****	****	****	136	****	120
ACETYLENE (POROPAK N)		60.0	****	****	****	60.0	****	****	****	59.0	****	50.0
	PPBC	120	****	****	****	120	****	****	****	118	****	100
PROPANE		18.4	18.8	18.8	19.0	19.0	19.0	19.0	18.4	18.5	18.5	18.2
	PPBC	55.2	56.4	56.4	57.0	57.0	57.0	57.0	55.2	55.5	55.5	54.6
PROPENE		13.4	11.8	10.4	9.6	8.0	7.2	6.4	5.2	5.0	4.0	2.8
	PPBC	40.2	35.4	31.2	28.8	24.0	21.6	19.2	15.6	15.0	12.0	8.4
ISOBUTANE		0.8	0.4	0.5	0.4	0.5	0.5	0.6	0.4	0.5	0.4	0.8
	PPBC	3.2	1.6	2.0	1.6	2.0	2.0	2.4	1.6	2.0	1.6	3.2
N-BUTANE		115	118	118	****	117	****	114	110	110	109	106
	PPBC	460	472	472	****	468	****	456	440	440	436	424
ACETYLENE (DMS)		51.3	54.4	54.4	54.6	54.4	54.0	54.2	52.5	53.0	53.0	52.8
	PPBC	103	109	109	109	109	108	108	105	106	106	106
TRANS-2-BUTENE		0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.4	0.5	0.5	0.7	0.7	0.8	1.0
	PPBC	0.0	0.0	0.0	0.0	2.0	2.5	2.5	3.5	3.5	4.0	5.0
CIS-2-BUTENE		12.6	8.8	4.4	2.4	1.0	0.8	0.5	0.4	0.2	0.0	0.0
	PPBC	50.4	35.2	17.6	9.6	4.0	3.2	2.0	1.6	0.8	0.0	0.0
N-PENTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5
	PPBC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.5
2,3-DIMETHYL BUTANE		77.6	82.8	81.6	80.8	78.9	78.0	75.6	72.0	71.6	71.0	67.2
	PPBC	466	497	490	485	473	468	454	432	430	426	403

SURROGATE RUN 19-E
GLASS CHAMBER
1973 OCT 2

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2-METHYL BUTENE-2		14.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	70.0	25.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		****	****	15.2	****	28.8	****	23.2	****	26.4	24.0	27.6
	PPBC	****	****	30.4	****	57.6	****	46.4	****	52.8	48.0	55.2
PROPIONALDEHYDE		****	****	1.6	****	2.4	****	1.6	****	2.4	3.2	4.0
	PPBC	****	****	4.8	****	7.2	****	4.8	****	7.2	9.6	12.0
ACETONE		****	****	18.4	****	29.6	****	24.8	****	30.0	30.0	40.0
	PPBC	****	****	55.2	****	88.8	****	74.4	****	90.0	90.0	120
BENZENE		****	****	0.1	****	0.1	****	****	****	0.0	0.0	0.0
	PPBC	****	****	0.6	****	0.6	****	****	****	0.0	0.0	0.0
METHYL ETHYL KETONE		****	****	2.4	****	1.8	****	3.0	****	****	****	6.0
	PPBC	****	****	9.6	****	7.2	****	12.0	****	****	****	24.0
TOLUENE		****	****	12.9	****	12.0	****	12.4	****	12.4	12.4	13.4
	PPBC	****	****	90.3	****	84.0	****	86.8	****	86.8	86.8	93.8
ETHYL BENZENE		****	****	****	****	****	****	****	****	****	****	****
	PPBC	****	****	****	****	****	****	****	****	****	****	****
PARA-XYLENE		****	****	****	****	****	****	****	****	****	****	****
	PPBC	****	****	****	****	****	****	****	****	****	****	****
META-XYLENE		****	****	24.0	****	17.0	****	17.2	****	17.0	18.4	****
	PPBC	****	****	192	****	136	****	138	****	136	147	****
N-PROPYL BENZENE		****	****	2.0	****	****	****	0.0	****	0.8	0.8	0.8
	PPBC	****	****	18.0	****	****	****	0.0	****	7.2	7.2	7.2
META-ETHYL TOLUENE		****	****	1.3	****	3.0	****	2.0	****	2.6	2.4	4.0
	PPBC	****	****	11.7	****	27.0	****	18.0	****	23.4	21.6	36.0
PAN		****	****	****	****	****	****	****	****	****	****	****
	PPBC	****	****	****	****	****	****	****	****	****	****	****
FORMALDEHYDE		52.0	****	78.0	****	100	****	119	****	146	181	****
	PPBC	52.0	****	78.0	****	100	****	119	****	146	181	****
3P COL. 2 MIN 40 SEC		****	****	25.0	****	70.0	****	104	****	152	176	216
	PPBC	****	****	25.0	****	70.0	****	104	****	152	176	216
3P COL., 3 MIN 20 SEC		****	****	3.0	****	5.0	****	5.0	****	4.0	24.0	4.0
3P COL., 4 MIN 5 SEC		****	****	0.0	****	4.0	****	4.0	****	****	****	36.0
3P COL., 4 MIN 50 SEC		****	****	6.0	****	18.0	****	0.0	****	0.0	0.0	6.0
3P COL., 5 MIN 30 SEC		****	****	12.0	****	20.0	****	6.0	****	****	****	8.0

SURROGATE RUN 19-E
GLASS CHAMBER
1973 OCT 2

CLOCK TIME	1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 6 MIN 50 SEC	****	****	3.0	****	2.0	****	2.0	****	2.0	2.0	2.0
3P COL., 32 MIN 0 SEC	****	****	12.0	****	20.0	****	18.0	****	16.0	****	****
3P COL., 37 MIN 30 SEC	****	****	16.0	****	****	****	****	****	****	****	****

SURROGATE RUN 20-E
GLASS CHAMBER
1973 OCT 3

LIGHTS ON AT 1135
LAST SAMPLE HELD IN SYRINGE OVERNIGHT

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730	915
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00	21.75
		CONCENTRATIONS (PPB)											
METHANE		1730	****	****	****	1730	****	****	****	1730	****	1730	****
	PPBC	1730	****	****	****	1730	****	****	****	1730	****	1730	****
ETHENE		10.0	****	****	****	9.0	****	****	****	8.4	****	6.2	****
	PPBC	20.0	****	****	****	18.0	****	****	****	16.8	****	12.4	****
ETHANE		19.6	****	****	****	18.8	****	****	****	20.0	****	18.0	****
	PPBC	39.2	****	****	****	37.6	****	****	****	40.0	****	36.0	****
ACETYLENE (POROPAK N		15.6	****	****	****	14.0	****	****	****	15.2	****	13.2	****
	PPBC	31.2	****	****	****	28.0	****	****	****	30.4	****	26.4	****
PROPANE		11.7	11.7	11.5	10.9	10.8	10.6	10.6	10.6	10.6	10.6	10.6	****
	PPBC	35.1	35.1	34.5	32.7	32.4	31.8	31.8	31.8	31.8	31.8	31.8	****
PROPENE		3.8	3.2	2.6	2.5	1.8	1.4	1.1	1.0	0.8	0.6	0.4	****
	PPBC	11.4	9.6	7.8	7.5	5.4	4.2	3.3	3.0	2.4	1.8	1.2	****
ISOBUTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.6	****
	PPBC	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.4	****
N-BUTANE		30.4	30.2	****	26.9	26.8	26.4	26.2	26.4	26.0	25.2	24.0	****
	PPBC	122	121	****	108	107	106	105	106	104	101	96.0	****
ACETYLENE (DMS)		17.2	17.1	17.0	15.0	15.0	15.0	15.0	15.0	15.0	15.1	15.0	****
	PPBC	34.4	34.2	34.0	30.0	30.0	30.0	30.0	30.0	30.0	30.2	30.0	****
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.6	0.6	0.7	1.0	****
	PPBC	0.0	0.0	0.0	0.0	0.0	2.5	3.0	3.0	3.0	3.5	5.0	****
CIS-2-BUTENE		3.2	2.6	1.2	0.9	0.6	0.5	0.0	0.0	0.0	0.0	0.0	****
	PPBC	12.8	10.4	4.8	3.6	2.4	2.0	0.0	0.0	0.0	0.0	0.0	****
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	****
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.5	****
2,3-DIMETHYL BUTANE		19.2	19.0	18.6	15.6	15.6	15.6	15.6	14.8	14.0	13.0	11.6	****
	PPBC	115	114	112	93.6	93.6	93.6	93.6	88.8	84.0	78.0	69.6	****
2-METHYL BUTENE-2		4.0	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	****
	PPBC	20.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	****

SURROGATE RUN 20-E
GLASS CHAMBER
1973 OCT 3

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730	915
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00	21.75
ACETALDEHYDE		2.8	****	7.2	****	14.4	****	10.4	****	25.6	15.2	16.8	81.5
	PPBC	5.6	****	14.4	****	28.8	****	20.8	****	51.2	30.4	33.6	163
PROPIONALDEHYDE		0.8	****	0.8	****	4.8	****	16.0	****	3.2	3.2	3.2	12.8
	PPBC	2.4	****	2.4	****	14.4	****	48.0	****	9.6	9.6	9.6	38.4
ACETONE		5.0	****	7.2	****	25.6	****	18.4	****	54.4	51.1	53.1	28.8
	PPBC	15.0	****	21.6	****	76.8	****	55.2	****	163	153	159	86.4
BENZENE		0.0	****	0.0	****	0.4	****	0.0	****	0.0	0.0	0.0	0.0
	PPBC	0.0	****	0.0	****	2.4	****	0.0	****	0.0	0.0	0.0	0.0
METHYL ETHYL KETONE		0.6	****	0.0	****	0.0	****	5.2	****	4.8	8.8	10.8	7.0
	PPBC	2.4	****	0.0	****	0.0	****	20.8	****	19.2	35.2	43.2	28.0
TOLUENE		2.6	****	2.4	****	2.4	****	2.6	****	2.4	2.4	2.8	6.3
	PPBC	18.2	****	16.8	****	16.8	****	18.2	****	16.8	16.8	19.6	44.1
META-XYLENE		5.2	****	4.6	****	6.3	****	3.0	****	0.0	1.4	1.3	****
	PPBC	41.6	****	36.8	****	50.4	****	24.0	****	0.0	11.2	10.4	****
ISOPROPYL BENZENE		0.2	****	0.2	****	0.4	****	0.0	****	0.0	0.2	0.3	0.6
	PPBC	1.8	****	1.8	****	3.6	****	0.0	****	0.0	1.8	2.7	5.4
ORTHO-XYLENE		0.2	****	0.2	****	0.4	****	0.0	****	0.0	0.3	0.4	0.3
	PPBC	1.6	****	1.6	****	3.2	****	0.0	****	0.0	2.4	3.2	2.4
N-PROPYL BENZENE		1.6	****	0.6	****	1.4	****	0.0	****	0.0	0.2	0.2	18.8
	PPBC	14.4	****	5.4	****	12.6	****	0.0	****	0.0	1.8	1.8	169
META-ETHYL TOLUENE		2.0	****	1.4	****	2.6	****	0.0	****	0.0	3.0	3.0	28.0
	PPBC	18.0	****	12.6	****	23.4	****	0.0	****	0.0	27.0	27.0	252
ORTHO-ETHYL TOLUENE		0.0	****	0.0	****	0.2	****	0.0	****	0.0	0.0	0.0	0.3
	PPBC	0.0	****	0.0	****	1.8	****	0.0	****	0.0	0.0	0.0	2.7
1,2,4 TRIMETHYL BENZENE		0.0	****	0.0	****	1.0	****	0.0	****	0.0	0.0	0.0	2.0
	PPBC	0.0	****	0.0	****	9.0	****	0.0	****	0.0	0.0	0.0	18.0
PAN		0.0	****	0.0	****	****	****	3.0	****	3.5	5.0	6.5	****
	PPBC	0.0	****	0.0	****	****	****	6.0	****	7.0	10.0	13.0	****
FORMALDEHYDE		34.0	****	48.0	****	80.0	****	104	****	140	****	235	****
	PPBC	34.0	****	48.0	****	80.0	****	104	****	140	****	235	****
3P COL. 2 MIN 40 SEC		8.0	****	12.0	****	64.0	****	104	****	152	200	272	****
	PPBC	8.0	****	12.0	****	64.0	****	104	****	152	200	272	****
3P COL., 3 MIN 20 SEC		0.0	****	0.0	****	0.0	****	0.0	****	32.0	20.0	24.0	****
3P COL., 4 MIN 5 SEC		5.0	****	4.0	****	6.0	****	0.0	****	24.0	16.0	0.0	****

SURROGATE RUN 20-E
GLASS CHAMBER
1973 OCT 3

CLOCK TIME	1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730	915
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00	21.75
3P COL., 4 MIN 50 SEC	0.0	****	12.0	****	0.0	****	0.0	****	0.0	0.0	0.0	****
3P COL., 5 MIN 30 SEC	0.0	****	8.0	****	0.0	****	8.0	****	0.0	24.0	0.0	****
3P COL., 6 MIN 30 SEC	0.0	****	0.0	****	5.0	****	0.0	****	16.0	0.0	0.0	****
3P COL., 32 MIN 0 SEC	16.0	****	10.0	****	0.0	****	0.0	****	6.0	24.0	24.0	****

SURROGATE RUN 21-E
GLASS CHAMBER
1973 OCT 4

14:00 SAMPLE HELD IN SYRINGE FOR 15 MIN

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1890	****	****	****	1900	****	****	****	1910	****	1900
	PPBC	1890	****	****	****	1900	****	****	****	1910	****	1900
ETHENE		12.6	****	****	****	10.4	****	****	****	9.6	****	8.4
	PPBC	25.2	****	****	****	20.8	****	****	****	19.2	****	16.8
ETHANE		22.0	****	****	****	26.4	****	****	****	24.8	****	23.2
	PPBC	44.0	****	****	****	52.8	****	****	****	49.6	****	46.4
ACETYLENE (PORDPAK N)		16.4	****	****	****	16.3	****	****	****	16.4	****	16.4
	PPBC	32.8	****	****	****	32.6	****	****	****	32.8	****	32.8
PROPANE		11.2	11.6	11.0	10.9	11.0	10.9	10.5	10.5	9.8	9.4	9.5
	PPBC	33.6	34.8	33.0	32.7	33.0	32.7	31.5	31.5	29.4	28.2	28.5
PROPENE		3.7	3.6	2.7	2.3	2.0	1.8	1.5	1.3	1.1	0.8	0.6
	PPBC	11.1	10.8	8.1	6.9	6.0	5.4	4.5	3.9	3.3	2.4	1.8
ISOBUTANE		0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.9
	PPBC	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.2	1.6	1.6	3.6
N-BUTANE		31.6	31.6	30.0	29.2	29.2	28.8	27.2	27.2	25.5	24.4	24.0
	PPBC	126	126	120	117	117	115	109	109	102	97.6	96.0
ACETYLENE (DMS)		17.0	17.2	17.4	17.0	17.0	17.2	17.0	16.4	16.0	15.8	15.6
	PPBC	34.0	34.4	34.8	34.0	34.0	34.4	34.0	32.8	32.0	31.6	31.2
ISOPENTANE		0.2	0.2	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.7	1.1
	PPBC	1.0	1.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.5	5.5
CIS-2-BUTENE		3.4	2.8	1.6	1.3	1.0	0.6	0.2	0.0	0.0	0.0	0.0
	PPBC	13.6	11.2	6.4	5.2	4.0	2.4	0.8	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
	PPBC	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
2,3-DIMETHYL BUTANE		18.0	19.2	18.0	17.6	17.0	16.6	15.0	15.0	13.0	13.0	12.0
	PPBC	108	115	108	106	102	99.6	90.0	90.0	78.0	78.0	72.0
2-METHYL BUTENE-2		3.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	17.5	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 21-E
GLASS CHAMBER
1973 OCT 4

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		6.0	****	10.8	****	14.8	****	7.2	****	17.2	13.2	16.8
	PPBC	12.0	****	21.6	****	29.6	****	14.4	****	34.4	26.4	33.6
PROPIONALDEHYDE		0.8	****	1.6	****	1.6	****	1.2	****	2.8	4.4	5.2
	PPBC	2.4	****	4.8	****	4.8	****	3.6	****	8.4	13.2	15.6
ACETONE		8.8	****	9.6	****	18.2	****	8.0	****	26.0	28.8	54.4
	PPBC	26.4	****	28.8	****	54.6	****	24.0	****	78.0	86.4	163
BENZENE		0.2	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	1.2	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		1.6	****	****	****	****	****	0.8	****	****	****	1.6
	PPBC	6.4	****	****	****	****	****	3.2	****	****	****	6.4
TOLUENE		3.3	****	3.3	****	2.6	****	2.5	****	4.8	4.0	4.0
	PPBC	23.1	****	23.1	****	18.2	****	17.5	****	33.6	28.0	28.0
ETHYL BENZENE		****	****	****	****	****	****	0.4	****	****	****	0.0
	PPBC	****	****	****	****	****	****	3.2	****	****	****	0.0
PARA-XYLENE		****	****	****	****	****	****	0.4	****	****	****	0.0
	PPBC	****	****	****	****	****	****	3.2	****	****	****	0.0
META-XYLENE		6.8	****	6.4	****	4.0	****	4.0	****	3.4	3.2	2.8
	PPBC	54.4	****	51.2	****	32.0	****	32.0	****	27.2	25.6	22.4
ISOPROPYL BENZENE		0.0	****	0.0	****	0.0	****	0.5	****	0.5	0.3	0.2
	PPBC	0.0	****	0.0	****	0.0	****	4.5	****	4.5	2.7	1.8
ORTHO-XYLENE		0.2	****	0.2	****	0.0	****	0.5	****	0.5	0.2	0.4
	PPBC	1.6	****	1.6	****	0.0	****	4.0	****	4.0	1.6	3.2
N-PROPYL BENZENE		0.8	****	0.8	****	0.8	****	0.8	****	0.9	0.4	0.3
	PPBC	7.2	****	7.2	****	7.2	****	7.2	****	4.5	3.6	2.7
META-ETHYL TOLUENE		3.2	****	2.0	****	1.2	****	1.2	****	2.4	4.0	4.8
	PPBC	28.8	****	18.0	****	10.8	****	10.8	****	21.6	36.0	43.2
PAN		0.0	****	0.0	****	0.0	****	1.0	****	2.0	3.0	4.0
	PPBC	0.0	****	0.0	****	0.0	****	2.0	****	4.0	6.0	8.0
FORMALDEHYDE		65.0	****	51.0	****	****	****	93.0	****	124	165	203
	PPBC	65.0	****	51.0	****	****	****	93.0	****	124	165	203
3P COL. 2 MIN 40 SEC		36.0	****	30.0	****	60.0	****	136	****	180	280	344
	PPBC	36.0	****	30.0	****	60.0	****	136	****	180	280	344
3P COL., 3 MIN 20 SEC		6.0	****	2.0	****	6.0	****	4.0	****	4.0	4.0	4.0
3P COL., 4 MIN 05 SEC		6.0	****	18.0	****	8.0	****	4.0	****	6.0	10.0	48.0

SURROGATE RUN 21-E
GLASS CHAMBER
1973 OCT 4

CLOCK TIME	1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 5 MIN 30 SEC	24.0	****	4.0	****	8.0	****	0.0	****	12.0	****	60.0
3P COL., 6 MIN 50 SEC	6.0	****	2.0	****	2.0	****	0.0	****	4.0	4.0	6.0
3P COL., 21 MIN 30 SEC	4.0	****	0.0	****	2.0	****	0.0	****	4.0	5.0	****
3P COL., 22 MIN 0 SEC	0.0	****	0.0	****	2.0	****	0.0	****	0.0	0.0	****
3P COL., 32 MIN 0 SEC	28.0	****	16.0	****	10.0	****	8.0	****	12.0	****	****
3P COL., 47 MIN 0 SEC	****	****	****	****	****	****	20.0	****	****	****	****

SURROGATE RUN 22-E
GLASS CHAMBER
1973 OCT 5

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		930	1000	1030	1100	1130	1200	1230	1300	1330	1430	1530
ELAPSED TIME(HR)		0.00	59.00	34.50	10.00	14.50	39.00	63.50	88.00	12.50	37.50	62.50
		CONCENTRATIONS (PPB)										
METHANE		****	1600	****	****	1670	****	****	****	1650	****	1670
	PPBC	****	1600	****	****	1670	****	****	****	1650	****	1670
ETHENE		****	9.2	****	****	9.6	****	****	****	10.0	****	9.6
	PPBC	****	18.4	****	****	19.2	****	****	****	20.0	****	19.2
ETHANE		****	18.0	****	****	20.6	****	****	****	22.4	****	22.2
	PPBC	****	36.0	****	****	41.2	****	****	****	44.8	****	44.4
ACETYLENE (POROPAK N)		****	14.0	****	****	16.0	****	****	****	16.4	****	16.8
	PPBC	****	28.0	****	****	32.0	****	****	****	32.8	****	33.6
PROPANE		12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.6
	PPBC	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	34.8
PROPENE		4.2	3.6	3.2	3.0	2.6	2.4	2.2	1.8	1.6	1.4	0.8
	PPBC	12.6	10.8	9.6	9.0	7.8	7.2	6.6	5.4	4.8	4.2	2.4
ISOBUTANE		0.4	0.4	0.4	0.4	0.4	0.8	0.7	0.7	0.7	0.8	0.8
	PPBC	1.6	1.6	1.6	1.6	1.6	3.2	2.8	2.8	2.8	3.2	3.2
N-BUTANE		31.6	33.2	32.5	32.3	30.0	30.0	30.0	30.0	29.2	28.4	27.4
	PPBC	126	133	130	129	120	120	120	120	117	114	110
ACETYLENE (DMS)		19.6	19.5	19.0	19.0	19.0	19.0	19.0	19.2	19.2	19.4	18.7
	PPBC	39.2	39.0	38.0	38.0	38.0	38.0	38.0	38.4	38.4	38.8	37.4
ISOPENTANE		0.2	0.2	0.4	0.7	1.0	1.2	1.1	1.2	1.4	1.5	2.0
	PPBC	1.0	1.0	2.0	3.5	5.0	6.0	5.5	6.0	7.0	7.5	10.0
CIS-2-BUTENE		4.0	3.4	2.1	1.5	1.1	0.8	0.0	0.0	0.0	0.0	0.0
	PPBC	16.0	13.6	8.4	6.0	4.4	3.2	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.2	0.2	0.2	0.4	0.5	0.4	0.7	0.7	0.6
	PPBC	0.0	0.0	1.0	1.0	1.0	2.0	2.5	2.0	3.5	3.5	4.0
2,3-DIMETHYL BUTANE		19.6	18.3	17.0	17.6	17.0	16.0	16.0	16.0	15.4	14.8	13.0
	PPBC	118	110	102	106	102	96.0	96.0	96.0	92.4	88.8	78.0
2-METHYL BUTENE-2		3.0	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	15.0	10.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 22-E
GLASS CHAMBER
1973 OCT 5

CLOCK TIME / ELAPSED TIME(HR)		930 0.00	1000 59.00	1030 34.50	1100 10.00	1130 14.50	1200 39.00	1230 63.50	1300 88.00	1330 12.50	1430 37.50	1530 62.50
ACETALDEHYDE		0.6	****	6.0	****	14.0	****	10.4	****	8.0	5.2	12.4
	PPBC	1.2	****	12.0	****	28.0	****	20.8	****	16.0	10.4	24.8
PROPIONALDEHYDE		1.0	****	1.2	****	0.4	****	1.4	****	1.6	2.4	3.0
	PPBC	3.0	****	3.6	****	1.2	****	4.2	****	4.8	7.2	9.0
ACETONE		0.8	****	5.6	****	22.4	****	13.2	****	11.2	14.4	24.0
	PPBC	2.4	****	16.8	****	67.2	****	39.6	****	33.6	43.2	72.0
BENZENE		0.2	****	0.0	****	0.0	****	0.2	****	0.0	0.0	0.0
	PPBC	1.2	****	0.0	****	0.0	****	1.2	****	0.0	0.0	0.0
METHYL ETHYL KETONE		****	****	0.4	****	****	****	****	****	****	****	****
	PPBC	****	****	1.6	****	****	****	****	****	****	****	****
TOLUENE		2.8	****	3.4	****	3.4	****	2.6	****	3.6	3.0	3.2
	PPBC	19.6	****	23.8	****	23.8	****	18.2	****	25.2	21.0	22.4
ETHYL BENZENE		0.2	****	0.2	****	****	****	****	****	****	****	0.3
	PPBC	1.6	****	1.6	****	****	****	****	****	****	****	2.4
PARA-XYLENE		****	****	1.9	****	****	****	****	****	****	****	6.4
	PPBC	****	****	15.2	****	****	****	****	****	****	****	51.2
META-XYLENE		8.0	****	5.6	****	5.2	****	3.6	****	3.3	6.0	3.6
	PPBC	64.0	****	44.8	****	41.6	****	28.8	****	26.4	48.0	28.8
ORTHO-XYLENE		0.0	****	0.2	****	0.0	****	0.2	****	0.2	0.2	0.2
	PPBC	0.0	****	1.6	****	0.0	****	1.6	****	1.6	1.6	1.6
N-PROPYL BENZENE		0.0	****	0.3	****	0.3	****	0.3	****	0.0	0.3	0.6
	PPBC	0.0	****	2.7	****	2.7	****	2.7	****	0.0	2.7	5.4
META-ETHYL TOLUENE		3.0	****	1.6	****	1.2	****	1.4	****	2.0	3.2	2.6
	PPBC	27.0	****	14.4	****	10.8	****	12.6	****	18.0	28.8	23.4
PAN		0.0	****	0.0	****	0.0	****	1.0	****	2.0	3.0	3.0
	PPBC	0.0	****	0.0	****	0.0	****	2.0	****	4.0	6.0	6.0
FORMALDEHYDE		63.0	****	54.0	****	79.0	****	107	****	128	149	186
	PPBC	63.0	****	54.0	****	79.0	****	107	****	128	149	186
3P COL. 2 MIN 40 SEC		16.0	****	44.0	****	68.0	****	88.0	****	132	202	264
	PPBC	16.0	****	44.0	****	68.0	****	88.0	****	132	202	264
3P COL., 3 MIN 20 SEC		2.0	****	2.0	****	2.0	****	2.0	****	3.0	3.0	3.0
3P COL., 4 MIN 5 SEC		8.0	****	4.0	****	8.0	****	8.0	****	8.0	8.0	8.0
3P COL., 5 MIN 30 SEC		4.0	****	****	****	6.0	****	7.0	****	****	****	****
3P COL., 6 MIN 50 SEC		12.0	****	****	****	0.0	****	3.0	****	3.0	0.0	0.0

SURROGATE RUN 22-E
GLASS CHAMBER
1973 OCT 5

CLOCK TIME ELAPSED TIME(HR)	930 0.00	1000 59.00	1030 34.50	1100 10.00	1130 14.50	1200 39.00	1230 63.50	1300 88.00	1330 12.50	1430 37.50	1530 62.50
3P COL., 7 MIN 30 SEC	2.0	****	2.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 21 MIN 30 SEC	0.0	****	0.0	****	0.0	****	2.0	****	2.0	2.0	4.0
3P COL., 33 MIN SEC	0.0	****	12.0	****	10.0	****	14.0	****	19.0	20.0	18.0
3P COL., 35 MIN SEC	33.0	****	****	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 46 MIN 30 SEC	****	****	****	****	****	****	****	****	47.0	****	50.0

SURROGATE RUN 23-E
GLASS CHAMBER
1973 OCT 10

C2'S POSSIBLE SYRINGE LEAK

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1440	****	****	****	1440	****	****	****	1440	****	1440
	PPBC	1440	****	****	****	1440	****	****	****	1440	****	1440
ETHENE		37.6	****	****	****	28.8	****	****	****	16.0	****	20.0
	PPBC	75.2	****	****	****	57.6	****	****	****	32.0	****	40.0
ETHANE		57.6	****	****	****	53.6	****	****	****	34.0	****	51.2
	PPBC	115	****	****	****	107	****	****	****	68.0	****	102
ACETYLENE (POROPAK N)		46.4	****	****	****	42.4	****	****	****	36.0	****	39.2
	PPBC	92.8	****	****	****	84.8	****	****	****	72.0	****	78.4
PROPANE		18.9	16.6	17.0	16.4	15.5	15.9	15.1	15.4	14.9	15.2	14.8
	PPBC	56.7	49.8	51.0	49.2	46.5	47.7	45.3	46.2	44.7	45.6	44.4
PROPENE		12.2	9.6	8.1	6.7	5.8	5.1	4.0	3.5	3.0	2.2	1.4
	PPBC	36.6	28.8	24.3	20.1	17.4	15.3	12.0	10.5	9.0	6.6	4.2
ISOBUTANE		0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2
	PPBC	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8
N-BUTANE		103	89.5	89.5	86.6	84.2	84.2	79.4	79.3	76.0	76.0	71.8
	PPBC	412	358	358	346	337	337	318	317	304	304	287
ACETYLENE (DMS)		49.4	44.0	42.0	39.6	41.0	41.0	38.6	38.5	37.9	38.0	37.8
	PPBC	98.8	88.0	84.0	79.2	82.0	82.0	77.2	77.0	75.8	76.0	75.6
TRANS-2-BUTENE		0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.3	0.5
	PPBC	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.5	2.5
CIS-2-BUTENE		13.2	8.4	5.7	3.2	1.5	1.1	0.2	0.0	0.0	0.0	0.0
	PPBC	52.8	33.6	22.8	12.8	6.0	4.4	0.8	0.0	0.0	0.0	0.0
2,3-DIMETHYL BUTANE		99.0	87.0	85.0	80.0	78.0	78.0	72.0	70.2	68.2	67.7	59.2
	PPBC	594	522	510	480	468	468	432	421	409	406	355
2-METHYL BUTENE-2		16.3	9.2	3.3	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	81.5	46.0	16.5	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 23-E
GLASS CHAMBER
1973 OCT 10

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		****	****	38.4	****	****	****	33.6	****	25.2	20.8	32.8
	PPBC	****	****	76.8	****	****	****	67.2	****	50.4	41.6	65.6
PROPIONALDEHYDE		1.8	****	1.6	****	****	****	1.6	****	2.4	4.0	4.0
	PPBC	5.4	****	4.8	****	****	****	4.8	****	7.2	12.0	12.0
ACETONE		****	****	24.8	****	****	****	32.0	****	28.0	32.0	51.2
	PPBC	****	****	74.4	****	****	****	96.0	****	84.0	96.0	154
METHYL ETHYL KETONE		****	****	3.2	****	****	****	8.8	****	3.2	4.0	13.6
	PPBC	****	****	12.8	****	****	****	35.2	****	12.8	16.0	54.4
TOLUENE		17.6	****	17.6	****	****	****	17.6	****	18.4	18.4	17.6
	PPBC	123	****	123	****	****	****	123	****	129	129	123
ETHYL BENZENE		0.0	****	****	****	****	****	0.8	****	0.4	0.4	****
	PPBC	0.0	****	****	****	****	****	6.4	****	3.2	3.2	****
PARA-XYLENE		26.4	****	****	****	****	****	1.6	****	6.0	8.8	****
	PPBC	211	****	****	****	****	****	12.8	****	48.0	70.4	****
META-XYLENE		34.0	****	6.6	****	****	****	22.4	****	14.0	12.0	9.6
	PPBC	272	****	52.8	****	****	****	179	****	112	96.0	76.8
ORTHO-XYLENE		0.0	****	0.0	****	****	****	0.0	****	0.0	0.2	0.0
	PPBC	0.0	****	0.0	****	****	****	0.0	****	0.0	1.6	0.0
PARA-ETHYL TOLUENE		0.0	****	0.6	****	****	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	5.4	****	****	****	0.0	****	0.0	0.0	0.0
META-ETHYL TOLUENE		3.2	****	0.5	****	****	****	1.4	****	0.8	3.6	2.4
	PPBC	28.8	****	4.5	****	****	****	12.6	****	7.2	32.4	21.6
PAN		0.0	****	0.0	****	4.0	****	6.0	****	9.0	11.0	15.0
	PPBC	0.0	****	0.0	****	8.0	****	12.0	****	18.0	22.0	30.0
FORMALDEHYDE		112	****	147	****	184	****	****	****	238	243	249
	PPBC	112	****	147	****	184	****	****	****	238	243	249
3P COL., 2 MIN 40 SEC		****	****	72.0	****	****	****	96.0	****	224	250	382
3P COL., 3 MIN 20 SEC		0.0	****	12.0	****	****	****	8.0	****	0.0	16.0	24.0
3P COL., 4 MIN 5 SEC		6.0	****	16.0	****	****	****	8.0	****	0.0	0.0	0.0
3P COL., 4 MIN 50 SEC		0.0	****	0.0	****	****	****	0.0	****	0.0	4.0	0.0
3P COL., 5 MIN 30 SEC		0.0	****	88.0	****	****	****	0.0	****	16.0	0.0	36.0
3P COL., 6 MIN 50 SEC		0.0	****	0.0	****	****	****	0.0	****	2.0	8.0	8.0
3P COL., 13 MIN 50 SEC		28.0	****	6.0	****	****	****	2.0	****	2.0	4.0	0.0

SURROGATE RUN 23-E
GLASS CHAMBER
1973 OCT 10

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
3P COL., 18 MIN 0 SEC	0.0	****	0.0	****	****	****	0.0	****	3.0	0.0	0.0
3P COL., 19 MIN 0 SEC	0.0	****	0.0	****	****	****	3.0	****	0.0	4.0	0.0
3P COL., 21 MIN 30 SEC	0.0	****	0.0	****	****	****	3.0	****	4.0	4.0	0.0
3P COL., 32 MIN 0 SEC	26.0	****	5.0	****	****	****	12.0	****	18.0	34.0	20.0
TOTAL HC PPBC	3716.6	****	****	****	2769.9	****	****	****	3092.2	****	3139.9
TOTAL NON-METHANE HC	2276.6	1128.4	1569.3	1004.5	1329.9	956.0	1436.1	873.9	1652.2	1603.7	1699.9
TOTAL SURROGATE	1917.4	1126.6	1242.6	1002.7	1137.9	954.2	1187.3	872.1	1181.6	1063.2	1110.4

SURROGATE RUN 24-E
GLASS CHAMBER
1973 OCT 17

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		2240	****	****	****	2200	****	****	****	2200	****	2190
	PPBC	2240	****	****	****	2200	****	****	****	2200	****	2190
ETHENE		10.4	****	****	****	7.6	****	****	****	7.4	****	6.2
	PPBC	20.8	****	****	****	15.2	****	****	****	14.8	****	12.4
ETHANE		21.4	****	****	****	19.2	****	****	****	19.2	****	19.0
	PPBC	42.8	****	****	****	38.4	****	****	****	38.4	****	38.0
ACETYLENE (POROPAK N)		13.2	****	****	****	11.6	****	****	****	12.0	****	11.6
	PPBC	26.4	****	****	****	23.2	****	****	****	24.0	****	23.2
PROPANE		15.2	16.8	11.6	12.6	11.4	****	11.2	11.8	11.5	11.0	11.4
	PPBC	45.6	50.4	34.8	37.8	34.2	****	33.6	35.4	34.5	33.0	34.2
PROPENE		3.2	2.0	1.8	1.6	1.4	****	1.3	0.8	0.8	0.6	0.5
	PPBC	9.6	6.0	5.4	4.8	4.2	****	3.9	2.4	2.4	1.8	1.5
ISOBUTANE		0.8	0.5	0.7	0.5	0.5	****	0.6	0.6	0.7	0.6	0.8
	PPBC	3.2	2.0	2.8	2.0	2.0	****	2.4	2.4	2.8	2.4	3.2
N-BUTANE		22.4	21.5	20.8	21.0	20.0	****	19.2	****	18.8	18.0	18.0
	PPBC	89.6	86.0	83.2	84.0	80.0	****	76.8	****	75.2	72.0	72.0
ACETYLENE (DMS)		11.2	11.6	10.8	11.2	10.8	****	10.4	11.0	11.0	10.7	11.0
	PPBC	22.4	23.2	21.6	22.4	21.6	****	20.8	22.0	22.0	21.4	22.0
TRANS-2-BUTENE		0.2	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0	0.0	0.0
	PPBC	0.8	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.4	1.0	2.0	1.8	1.6	****	1.7	1.8	2.0	2.0	2.3
	PPBC	2.0	5.0	10.0	9.0	8.0	****	8.5	9.0	10.0	10.0	11.5
CIS-2-BUTENE		3.0	1.4	0.2	0.0	0.0	****	0.0	0.0	0.0	0.0	0.0
	PPBC	12.0	5.6	0.8	0.0	0.0	****	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.6	0.4	0.5	0.5	0.5	****	0.5	0.5	0.5	0.6	0.7
	PPBC	3.0	2.0	2.5	2.5	2.5	****	2.5	2.5	2.5	3.0	3.5
2,3-DIMETHYL BUTANE		33.0	9.0	8.2	8.0	7.2	****	7.0	7.2	6.4	6.4	6.0
	PPBC	198	54.0	49.2	48.0	43.2	****	42.0	43.2	38.4	38.4	36.0

SURROGATE RUN 24-E
GLASS CHAMBER
1973 OCT 17

CLOCK TIME		1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2-METHYL BUTENE-2		2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		1.6	****	11.6	****	****	****	17.6	****	12.8	17.6	16.8
	PPBC	3.2	****	23.2	****	****	****	35.2	****	25.6	35.2	33.6
PROPIONALDEHYDE		1.4	****	1.2	****	4.8	****	2.0	****	2.0	2.4	3.2
	PPBC	4.2	****	3.6	****	14.4	****	6.0	****	6.0	7.2	9.6
ACETONE		3.6	****	6.4	****	24.0	****	13.6	****	12.0	24.8	24.0
	PPBC	10.8	****	19.2	****	72.0	****	40.8	****	36.0	74.4	72.0
BENZENE		0.0	****	0.1	****	0.1	****	0.2	****	0.0	0.3	0.2
	PPBC	0.0	****	0.6	****	0.6	****	1.2	****	0.0	1.8	1.2
METHYL ETHYL KETONE		0.6	****	0.6	****	****	****	****	****	2.4	****	****
	PPBC	2.4	****	2.4	****	****	****	****	****	9.6	****	****
TOLUENE		3.7	****	3.0	****	2.5	****	2.8	****	2.4	2.6	3.2
	PPBC	25.9	****	21.0	****	17.5	****	19.6	****	16.8	18.2	22.4
ETHYL BENZENE		0.2	****	0.2	****	****	****	0.2	****	0.2	****	0.2
	PPBC	1.6	****	1.6	****	****	****	1.6	****	1.6	****	1.6
PARA-XYLENE		6.6	****	10.4	****	****	****	****	****	3.2	****	****
	PPBC	52.8	****	83.2	****	****	****	****	****	25.6	****	****
META-XYLENE		7.4	****	4.0	****	2.0	****	2.4	****	2.0	2.4	****
	PPBC	59.2	****	32.0	****	16.0	****	19.2	****	16.0	19.2	****
ORTHO-XYLENE		0.2	****	0.3	****	0.2	****	0.2	****	0.2	0.3	0.2
	PPBC	1.6	****	2.4	****	1.6	****	1.6	****	1.6	2.4	1.6
META-ETHYL TOLUENE		2.0	****	3.4	****	7.0	****	2.0	****	2.0	1.5	4.5
	PPBC	18.0	****	30.6	****	63.0	****	18.0	****	18.0	13.5	40.5
PAN		0.0	****	0.0	****	0.0	****	0.0	****	1.0	2.0	2.5
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	2.0	4.0	5.0
FORMALDEHYDE		93.0	****	124	****	159	****	****	****	172	192	224
	PPBC	93.0	****	124	****	159	****	****	****	172	192	224
3P COL. 2 MIN 40 SEC		76.0	****	85.0	****	124	****	160	****	220	280	312
	PPBC	76.0	****	85.0	****	124	****	160	****	220	280	312
3P COL., 3 MIN 20 SEC		4.0	****	2.0	****	2.0	****	2.0	****	3.0	2.0	2.0
3P COL., 4 MIN 5 SEC		4.0	****	4.0	****	8.0	****	8.0	****	4.0	****	4.0
3P COL., 5 MIN 30 SEC		****	****	****	****	200	****	12.0	****	****	12.0	48.0
3P COL., 6 MIN 50 SEC		2.0	****	0.0	****	2.0	****	0.0	****	2.0	2.0	2.0

SURROGATE RUN 24-E
GLASS CHAMBER
1973 OCT 17

CLOCK TIME ELAPSED TIME(HR)	1045 0.00	1115 0.50	1145 1.00	1215 1.50	1245 2.00	1315 2.50	1345 3.00	1415 3.50	1445 4.00	1545 5.00	1645 6.00
3P COL., 13 MIN 50 SEC	12.0	****	16.0	****	8.0	****	8.0	****	8.0	4.0	4.0
3P COL., 18 MIN 0 SEC	0.0	****	0.0	****	6.0	****	0.0	****	0.0	0.0	3.0
3P COL., 21 MIN 30 SEC	2.0	****	2.0	****	2.0	****	2.0	****	0.0	4.0	5.0
3P COL., 22 MIN 0 SEC	0.0	****	2.0	****	5.0	****	0.0	****	0.0	0.0	2.0
3P COL., 32 MIN 0 SEC	14.0	****	24.0	****	50.0	****	16.0	****	20.0	14.0	31.0
3P COL., 47 MIN 0 SEC	****	****	****	****	****	****	16.0	****	****	****	****

SURROGATE RUN 25-E
GLASS CHAMBER
1973 OCT 19

UNKNOWN TIME IN SYRINGE BEFORE INJECTION

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1730	****	****	****	1730	****	****	****	1730	****	1730
	PPBC	1730	****	****	****	1730	****	****	****	1730	****	1730
ETHENE		11.2	****	****	****	10.0	****	****	****	8.8	****	7.2
	PPBC	22.4	****	****	****	20.0	****	****	****	17.6	****	14.4
ETHANE		20.8	****	****	****	20.0	****	****	****	20.0	****	18.4
	PPBC	41.6	****	****	****	40.0	****	****	****	40.0	****	36.8
ACETYLENE (PORAPAK N)		15.0	****	****	****	14.8	****	****	****	14.0	****	13.2
	PPBC	30.0	****	****	****	29.6	****	****	****	28.0	****	26.4
PROPANE		13.2	12.6	13.4	12.8	12.7	12.7	12.4	12.5	12.2	12.0	11.8
	PPBC	39.6	37.8	40.2	38.4	38.1	38.1	37.2	37.5	36.6	36.0	35.4
PROPENE		3.6	3.2	3.0	2.6	2.2	2.0	1.6	1.4	1.2	0.8	0.6
	PPBC	10.8	9.6	9.0	7.8	6.6	6.0	4.8	4.2	3.6	2.4	1.8
ISOBUTANE		0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	PPBC	0.8	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
N-BUTANE		28.8	27.8	28.0	27.4	27.0	27.0	25.8	25.6	25.2	24.8	23.6
	PPBC	115	111	112	110	108	108	103	102	101	99.2	94.4
ACETYLENE (DMS)		14.8	14.0	14.0	14.0	14.0	14.0	13.5	13.8	13.8	13.0	12.8
	PPBC	29.6	28.0	28.0	28.0	28.0	28.0	27.0	27.6	27.6	26.0	25.6
ISOPENTANE		0.2	0.2	0.4	0.6	0.7	0.8	0.8	0.6	0.8	0.8	1.0
	PPBC	1.0	1.0	2.0	3.0	3.5	4.0	4.0	3.0	4.0	4.0	5.0
CIS-2-BUTENE		3.3	2.6	1.7	1.2	1.0	0.5	0.0	0.0	0.0	0.0	0.0
	PPBC	13.2	10.4	6.8	4.8	4.0	2.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4
	PPBC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.0
2,3-DIMETHYL BUTANE		19.4	19.0	18.0	17.3	17.0	16.5	16.0	15.6	14.6	14.0	13.0
	PPBC	116	114	108	104	102	99.0	96.0	93.6	87.6	84.0	78.0
2-METHYL BUTENE-2		3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 25-E
GLASS CHAMBER
1973 OCT 19

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.2	****	****	****	0.4	****	18.0	****	14.8	****	17.6
	PPBC	0.4	****	****	****	0.8	****	36.0	****	29.6	****	35.2
PROPIONALDEHYDE		2.2	****	1.2	****	1.2	****	2.8	****	2.8	3.2	4.0
	PPBC	6.6	****	3.6	****	3.6	****	8.4	****	8.4	9.6	12.0
ACETONE		16.8	****	****	****	8.0	****	14.8	****	10.0	17.6	21.6
	PPBC	50.4	****	****	****	24.0	****	44.4	****	30.0	52.8	64.8
METHYL ETHYL KETONE		0.8	****	0.6	****	0.8	****	6.0	****	0.8	0.8	7.2
	PPBC	3.2	****	2.4	****	3.2	****	24.0	****	3.2	3.2	28.8
TOLUENE		4.8	****	4.0	****	3.6	****	4.0	****	5.6	4.0	4.5
	PPBC	33.6	****	28.0	****	25.2	****	28.0	****	39.2	28.0	31.5
ETHYL BENZENE		0.0	****	0.0	****	0.2	****	0.0	****	0.0	0.0	0.2
	PPBC	0.0	****	0.0	****	1.6	****	0.0	****	0.0	0.0	1.6
PARA-XYLENE		6.4	****	0.0	****	0.2	****	0.0	****	0.0	3.2	7.6
	PPBC	51.2	****	0.0	****	1.6	****	0.0	****	0.0	25.6	60.8
META-XYLENE		9.2	****	0.0	****	8.0	****	4.5	****	5.6	3.2	3.8
	PPBC	73.6	****	0.0	****	64.0	****	36.0	****	44.8	25.6	30.4
ORTHO-XYLENE		0.2	****	0.0	****	0.0	****	0.0	****	0.3	0.3	0.1
	PPBC	1.6	****	0.0	****	0.0	****	0.0	****	2.4	2.4	0.8
META-ETHYL TOLUENE		3.4	****	1.6	****	****	****	2.4	****	3.4	2.2	3.6
	PPBC	30.6	****	14.4	****	****	****	21.6	****	30.6	19.8	32.4
PAN		0.0	****	0.0	****	1.0	****	2.0	****	2.5	3.0	3.5
	PPBC	0.0	****	0.0	****	2.0	****	4.0	****	5.0	6.0	7.0
FORMALDEHYDE		147	****	199	****	196	****	186	****	****	174	213
	PPBC	147	****	199	****	196	****	186	****	****	174	213
3P COL. 2 MIN 40 SEC		66.0	****	80.0	****	80.0	****	168	****	232	280	320
	PPBC	66.0	****	80.0	****	80.0	****	168	****	232	280	320
3P COL., 2 MIN 30 SEC		0.0	****	40.0	****	40.0	****	0.0	****	0.0	0.0	0.0
3P COL., 3 MIN 20 SEC		80.0	****	80.0	****	80.0	****	0.0	****	24.0	0.0	0.0
3P COL., 4 MIN 5 SEC		0.0	****	54.0	****	0.0	****	16.0	****	0.0	8.0	0.0
3P COL., 5 MIN 30 SEC		0.0	****	36.0	****	0.0	****	45.0	****	16.0	0.0	8.0
3P COL., 6 MIN 50 SEC		0.0	****	2.0	****	4.0	****	0.0	****	1.0	0.0	0.0
3P COL., 13 MIN 50 SEC		7.0	****	4.0	****	10.0	****	4.0	****	4.0	4.0	0.0
3P COL., 16 MIN 0 SEC		0.0	****	0.0	****	24.0	****	0.0	****	0.0	0.0	0.0

SURROGATE RUN 25-E
GLASS CHAMBER
1973 OCT 19

CLOCK TIME	1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 21 MIN 30 SEC	2.0	****	4.0	****	0.0	****	0.0	****	0.0	4.0	4.0
3P COL., 28 MIN 30 SEC	0.0	****	1.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 32 MIN 0 SEC	23.0	****	12.0	****	18.0	****	12.0	****	24.0	28.0	0.0

SURROGATE RUN 26-E
GLASS CHAMBER
1973 OCT 22

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1700	****	****	****	1750	****	****	****	1740	****	1680
	PPBC	1700	****	****	****	1750	****	****	****	1740	****	1680
ETHENE		16.8	****	****	****	9.2	****	****	****	7.2	****	6.0
	PPBC	33.6	****	****	****	18.4	****	****	****	14.4	****	12.0
ETHANE		23.2	****	****	****	22.0	****	****	****	21.0	****	20.8
	PPBC	46.4	****	****	****	44.0	****	****	****	42.0	****	41.6
ACETYLENE (POROPAK N)		17.6	****	****	****	16.8	****	****	****	15.0	****	14.8
	PPBC	35.2	****	****	****	33.6	****	****	****	30.0	****	29.6
PROPANE		12.2	12.0	11.4	11.6	11.5	11.6	11.8	11.5	11.5	12.5	11.2
	PPBC	36.6	36.0	34.2	34.8	34.5	34.8	35.4	34.5	34.5	37.5	33.6
PROPENE		3.8	3.0	2.2	1.6	1.5	1.0	1.0	0.8	0.6	0.5	0.4
	PPBC	11.4	9.0	6.6	4.8	4.5	3.0	3.0	2.4	1.8	1.5	1.2
ISOBUTANE		0.5	0.6	0.5	0.6	0.8	1.0	1.0	1.0	1.4	1.4	1.2
	PPBC	2.0	2.4	2.0	2.4	3.2	4.0	4.0	4.0	5.6	5.6	4.8
N-BUTANE		29.0	28.0	26.8	26.4	25.2	25.2	****	23.4	23.4	24.8	21.0
	PPBC	116	112	107	106	101	101	****	93.6	93.6	99.2	84.0
ACETYLENE (DMS)		17.3	17.4	17.0	17.0	16.0	16.8	16.4	16.4	16.0	17.4	15.0
	PPBC	34.6	34.8	34.0	34.0	32.0	33.6	32.8	32.8	32.0	34.8	30.0
1-BUTENE		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOBUTENE		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TRANS-2-BUTENE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.2	0.2	1.2	1.3	1.5	1.5	1.8	1.8	1.8	2.2	1.8
	PPBC	1.0	1.0	6.0	6.5	7.5	7.5	9.0	9.0	9.0	11.0	9.0
CIS-2-BUTENE		3.4	2.4	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	13.6	9.6	4.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 26-E
GLASS CHAMBER
1973 OCT 22

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
N-PENTANE		0.4	0.5	0.5	0.5	0.6	0.8	0.8	0.8	1.0	1.0	1.0
	PPBC	2.0	2.5	2.5	2.5	3.0	4.0	4.0	4.0	5.0	5.0	5.0
2,2-DIMETHYL BUTANE		0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2,3-DIMETHYL BUTANE		18.8	17.4	16.0	15.0	13.8	13.6	13.0	11.8	10.8	11.2	9.2
	PPBC	113	104	96.0	90.0	82.8	81.6	78.0	70.8	64.8	67.2	55.2
2-METHYL BUTENE-2		3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	15.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		4.0	****	34.8	****	12.0	****	13.8	****	21.5	28.8	42.4
	PPBC	8.0	****	69.6	****	24.0	****	27.6	****	43.0	57.6	84.8
PROPIONALDEHYDE		7.6	****	1.6	****	3.2	****	2.4	****	3.2	3.2	4.8
	PPBC	22.8	****	4.8	****	9.6	****	7.2	****	9.6	9.6	14.4
ACETONE		21.6	****	18.8	****	16.0	****	****	****	46.4	36.8	36.8
	PPBC	64.8	****	56.4	****	48.0	****	****	****	139	110	110
METHYL ETHYL KETONE		7.0	****	1.0	****	1.6	****	1.8	****	3.6	10.4	****
	PPBC	28.0	****	4.0	****	6.4	****	7.2	****	14.4	41.6	****
TOLUENE		7.6	****	3.4	****	3.5	****	3.8	****	3.4	3.6	****
	PPBC	53.2	****	23.8	****	24.5	****	26.6	****	23.8	25.2	****
META-XYLENE		8.0	****	5.2	****	15.2	****	2.8	****	1.6	3.2	9.2
	PPBC	64.0	****	41.6	****	122	****	22.4	****	12.8	25.6	73.6
ORTHO-XYLENE		0.2	****	0.2	****	0.2	****	0.2	****	0.2	0.2	0.2
	PPBC	1.6	****	1.6	****	1.6	****	1.6	****	1.6	1.6	1.6
META-ETHYL TOLUENE		6.8	****	6.8	****	6.4	****	3.0	****	3.0	7.0	5.6
	PPBC	61.2	****	61.2	****	57.6	****	27.0	****	27.0	63.0	50.4
PAN		0.0	****	1.5	****	2.5	****	5.0	****	7.5	9.0	10.0
	PPBC	0.0	****	3.0	****	5.0	****	10.0	****	15.0	18.0	20.0
FORMALDEHYDE		113	****	181	****	226	****	262	****	266	****	284
	PPBC	113	****	181	****	226	****	262	****	266	****	284
3P COL. 2 MIN 40 SEC		80.0	****	98.0	****	136	****	160	****	184	232	264
	PPBC	80.0	****	98.0	****	136	****	160	****	184	232	264
3P COL., 3 MIN 5 SEC		0.0	****	8.0	****	8.0	****	8.0	****	8.0	8.0	8.0
3P COL., 4 MIN 5 SEC		16.0	****	60.0	****	****	****	4.0	****	12.0	12.0	12.0
3P COL., 5 MIN 20 SEC		30.0	****	32.0	****	****	****	34.0	****	36.0	0.0	0.0
3P COL., 7 MIN 0 SEC		4.0	****	4.0	****	8.0	****	4.0	****	4.0	0.0	12.0

SURROGATE RUN 26-E
GLASS CHAMBER
1973 OCT 22

CLOCK TIME	1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 13 MIN 40 SEC	10.0	****	9.0	****	8.0	****	4.0	****	****	0.0	6.0
3P COL., 18 MIN 50 SEC	20.0	****	6.0	****	5.0	****	4.0	****	****	0.0	4.0
3P COL., 22 MIN 0 SEC	8.0	****	0.0	****	4.0	****	****	****	****	0.0	4.0
3P COL., 32 MIN 30 SEC	48.0	****	22.0	****	43.0	****	****	****	28.0	20.0	20.0
3P COL., 47 MIN 0 SEC	****	****	****	****	****	****	****	****	40.0	42.0	****

SURROGATE RUN 27-E
GLASS CHAMBER
1973 OCT 23

10:00 LIGHTS ON 12:00 SAMPLE INJECTED AT 12:20

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1680	****	****	****	1700	****	****	****	1680	****	1700
	PPBC	1680	****	****	****	1700	****	****	****	1680	****	1700
ETHENE		11.2	****	****	****	4.4	****	****	****	6.8	****	5.2
	PPBC	22.4	****	****	****	8.8	****	****	****	13.6	****	10.4
ETHANE		20.4	****	****	****	19.0	****	****	****	18.8	****	18.8
	PPBC	40.8	****	****	****	38.0	****	****	****	37.6	****	37.6
ACETYLENE (PORAPAK N)		13.2	****	****	****	13.0	****	****	****	12.4	****	12.4
	PPBC	26.4	****	****	****	26.0	****	****	****	24.8	****	24.8
PROPANE		12.0	12.4	12.0	****	11.0	12.2	10.6	10.6	10.6	10.4	10.0
	PPBC	36.0	37.2	36.0	****	33.0	36.6	31.8	31.8	31.8	31.2	30.0
PROPENE		3.8	3.0	2.5	****	1.6	1.5	1.0	1.0	0.6	0.5	0.4
	PPBC	11.4	9.0	7.5	****	4.8	4.5	3.0	3.0	1.8	1.5	1.2
ISOBUTANE		0.4	0.3	0.3	****	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	PPBC	1.6	1.2	1.2	****	1.6	1.6	1.6	1.6	1.6	1.6	1.6
N-BUTANE		29.6	30.0	28.8	****	28.0	28.8	25.0	25.0	24.8	****	22.8
	PPBC	118	120	115	****	112	115	100	100	99.2	****	91.2
ACETYLENE (DMS)		16.4	16.8	16.6	****	15.6	15.6	14.6	14.6	14.6	14.5	14.2
	PPBC	32.8	33.6	33.2	****	31.2	31.2	29.2	29.2	29.2	29.0	28.4
ISOPENTANE		0.0	0.2	0.4	****	0.4	0.5	0.5	0.5	0.4	0.5	0.6
	PPBC	0.0	1.0	2.0	****	2.0	2.5	2.5	2.5	2.0	2.5	3.0
CIS-2-BUTENE		3.5	2.0	1.2	****	0.4	0.2	0.0	0.0	0.0	0.0	0.0
	PPBC	14.0	8.0	4.8	****	1.6	0.8	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.2	****	0.4	0.4	0.4	0.4	0.3	0.4	0.4
	PPBC	0.0	0.0	1.0	****	2.0	2.0	2.0	2.0	1.5	2.0	2.0
2,3-DIMETHYL BUTANE		18.8	19.0	17.2	****	15.2	15.2	13.4	13.4	12.8	11.0	10.6
	PPBC	113	114	103	****	91.2	91.2	80.4	80.4	76.8	66.0	63.6
2-METHYL BUTENE-2		3.2	2.0	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	16.0	10.0	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 27-E
GLASS CHAMBER
1973 OCT 23

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		0.2	****	11.4	****	12.2	****	18.2	****	13.6	18.4	19.4
	PPBC	0.4	****	22.8	****	24.4	****	36.4	****	27.2	36.8	38.8
PROPIONALDEHYDE		1.0	****	1.4	****	1.6	****	2.2	****	2.2	2.8	3.4
	PPBC	3.0	****	4.2	****	4.8	****	6.6	****	6.6	8.4	10.2
ACETONE		2.5	****	7.4	****	12.0	****	16.0	****	20.8	****	35.2
	PPBC	7.5	****	22.2	****	36.0	****	48.0	****	62.4	****	106
METHYL ETHYL KETONE		2.5	****	1.0	****	2.0	****	3.4	****	3.0	****	****
	PPBC	10.0	****	4.0	****	8.0	****	13.6	****	12.0	****	****
TOLUENE		4.6	****	3.4	****	3.4	****	2.4	****	2.4	2.8	2.6
	PPBC	32.2	****	23.8	****	23.8	****	16.8	****	16.8	19.6	18.2
ETHYL BENZENE		0.4	****	0.2	****	0.0	****	0.2	****	0.2	0.2	0.2
	PPBC	3.2	****	1.6	****	0.0	****	1.6	****	1.6	1.6	1.6
PARA-XYLENE		8.0	****	10.4	****	9.2	****	13.6	****	4.4	8.8	3.2
	PPBC	64.0	****	83.2	****	73.6	****	109	****	35.2	70.4	25.6
META-XYLENE		7.2	****	5.0	****	4.4	****	3.0	****	2.8	2.8	1.6
	PPBC	57.6	****	40.0	****	35.2	****	24.0	****	22.4	22.4	12.8
META-ETHYL TOLUENE		3.6	****	4.4	****	4.0	****	6.2	****	2.8	5.2	4.8
	PPBC	32.4	****	39.6	****	36.0	****	55.8	****	25.2	46.8	43.2
PAN		0.0	****	****	****	2.0	****	2.5	****	4.5	5.0	7.0
	PPBC	0.0	****	****	****	4.0	****	5.0	****	9.0	10.0	14.0
FORMALDEHYDE		36.0	****	82.0	****	92.0	****	123	****	142	123	****
	PPBC	36.0	****	82.0	****	92.0	****	123	****	142	123	****
3P COL., 2 MIN 40 SEC		48.0	****	74.0	****	92.0	****	122	****	160	220	236
3P COL., 3 MIN 20 SEC		4.0	****	2.0	****	2.0	****	2.0	****	2.0	2.0	3.0
3P COL., 4 MIN 5 SEC		4.0	****	5.0	****	4.0	****	6.0	****	8.0	8.0	8.0
3P COL., 5 MIN 30 SEC		0.0	****	8.0	****	52.0	****	80.0	****	12.0	20.0	12.0
3P COL., 7 MIN 0 SEC		0.0	****	0.0	****	4.0	****	4.0	****	4.0	4.0	4.0
3P COL., 13 MIN 50 SEC		6.0	****	6.0	****	6.0	****	6.0	****	4.0	6.0	4.0
3P COL., 18 MIN 30 SEC		0.0	****	0.0	****	0.0	****	2.0	****	2.0	2.0	2.0
3P COL., 32 MIN 10 SEC		34.0	****	34.0	****	34.0	****	40.0	****	22.0	34.0	32.0
3P COL., 39 MIN 50 SEC		2.0	****	0.0	****	2.0	****	3.0	****	3.0	2.0	3.0
3P COL., 45 MIN 0 SEC		****	****	****	****	4.0	****	7.0	****	16.0	16.0	20.0

SURROGATE RUN 27-E
GLASS CHAMBER
1973 OCT 23

CLOCK TIME	1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
TOTAL HC PPBC	2329.3	****	****	****	2361.4	****	****	****	2333.3	****	2237.2
TOTAL NON-METHANE HC	649.3	334.0	627.5	0.0	661.4	285.6	690.1	250.5	653.3	472.8	537.2
TOTAL SURROGATE	491.2	331.8	363.7	****	377.0	279.5	285.2	244.4	327.0	169.7	291.6

SURROGATE RUN 28-E
GLASS CHAMBER
1973 OCT 24

13:00 SAMPLE IN SYRINGE 6-8 MIN

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1870	****	****	****	1880	****	****	****	1840	****	1870
	PPBC	1870	****	****	****	1880	****	****	****	1840	****	1870
ETHENE		15.0	****	****	****	12.8	****	****	****	10.8	****	8.4
	PPBC	30.0	****	****	****	25.6	****	****	****	21.6	****	16.8
ETHANE		22.4	****	****	****	23.0	****	****	****	22.8	****	19.8
	PPBC	44.8	****	****	****	46.0	****	****	****	45.6	****	39.6
ACETYLENE (POROPAK N)		17.4	****	****	****	17.6	****	****	****	17.2	****	15.2
	PPBC	34.8	****	****	****	35.2	****	****	****	34.4	****	30.4
PROPANE		10.5	10.8	10.8	10.8	10.8	9.4	9.8	10.0	10.0	10.0	9.6
	PPBC	31.5	32.4	32.4	32.4	32.4	28.2	29.4	30.0	30.0	30.0	28.8
PROPENE		3.8	3.0	2.4	2.2	1.8	1.4	1.4	1.0	0.8	0.6	0.5
	PPBC	11.4	9.0	7.2	6.6	5.4	4.2	4.2	3.0	2.4	1.8	1.5
ISOBUTANE		0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6
	PPBC	1.6	1.2	2.0	2.0	2.0	2.0	2.0	2.4	2.0	2.4	2.4
N-BUTANE		28.0	28.8	28.0	27.6	27.6	****	24.8	****	24.8	24.0	23.2
	PPBC	112	115	112	110	110	****	99.2	****	99.2	96.0	92.8
ACETYLENE (DHS)		15.6	15.8	16.2	15.6	15.2	14.6	14.5	15.0	14.8	14.4	14.7
	PPBC	31.2	31.6	32.4	31.2	30.4	29.2	29.0	30.0	29.6	28.8	29.4
ISOPENTANE		0.4	0.3	1.0	1.4	1.4	1.4	1.0	1.2	1.5	1.6	1.7
	PPBC	2.0	1.5	5.0	7.0	7.0	7.0	5.0	6.0	7.5	8.0	8.5
CIS-2-BUTENE		3.4	1.8	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	13.6	7.2	5.6	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.7
	PPBC	0.0	1.0	1.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	3.5
2,3-DIMETHYL BUTANE		18.8	18.6	17.2	16.6	16.2	14.8	14.6	14.0	13.4	13.0	12.0
	PPBC	113	112	103	99.6	97.2	88.8	87.6	84.0	80.4	78.0	72.0
2-METHYL BUTENE-2		2.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	12.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 28-E
GLASS CHAMBER
1973 OCT 24

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.8	****	13.6	****	14.8	****	47.2	****	14.4	16.4	8.0
	PPBC	1.6	****	27.2	****	29.6	****	94.4	****	28.8	32.8	16.0
PROPIONALDEHYDE		0.6	****	0.8	****	1.0	****	1.6	****	2.0	2.4	1.8
	PPBC	1.8	****	2.4	****	3.0	****	4.8	****	6.0	7.2	5.4
ACETONE		3.5	****	10.8	****	8.8	****	14.6	****	38.4	40.0	19.2
	PPBC	10.5	****	32.4	****	26.4	****	43.8	****	115	120	57.6
BENZENE		0.0	****	0.2	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	1.2	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.3	****	0.8	****	****	[illegible]	[illegible]	****	1.6	****	1.4
	PPBC	1.2	****	3.2	****	****			****	6.4	****	5.6
TOLUENE		4.2	****	3.6	****	[illegible].0	[illegible]	[illegible].6	****	3.6	3.2	3.6
	PPBC	29.4	****	25.2	****	28.0	****	[illegible].2	****	25.2	22.4	25.2
ETHYL BENZENE		0.2	****	****	****	0.4	****	0.4	****	****	****	0.2
	PPBC	1.6	****	****	****	3.2	****	3.2	****	****	****	1.6
PARA-XYLENE		8.5	****	****	****	4.8	****	****	****	****	****	0.2
	PPBC	68.0	****	****	****	38.4	****	****	****	****	****	1.6
META-XYLENE		7.8	****	5.2	****	4.4	****	2.0	****	2.6	2.4	3.0
	PPBC	62.4	****	41.6	****	35.2	****	16.0	****	20.8	19.2	24.0
ISOPROPYL BENZENE		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.2
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	1.8
ORTHO-XYLENE		0.2	****	0.2	****	0.2	****	0.2	****	0.2	0.2	0.2
	PPBC	1.6	****	1.6	****	1.6	****	1.6	****	1.6	1.6	1.6
META-ETHYL TOLUENE		2.0	****	2.0	****	2.4	****	3.0	****	1.0	2.0	2.0
	PPBC	18.0	****	18.0	****	21.6	****	27.0	****	9.0	18.0	18.0
PAN		0.0	****	0.0	****	0.5	****	1.0	****	1.5	2.5	3.0
	PPBC	0.0	****	0.0	****	1.0	****	2.0	****	3.0	5.0	6.0
FORMALDEHYDE		97.0	****	126	****	143	****	151	****	163	184	235
	PPBC	97.0	****	126	****	143	****	151	****	163	184	235
3P COL. 2 MIN 40 SEC		76.0	****	70.0	****	124	****	152	****	200	276	308
	PPBC	76.0	****	70.0	****	124	****	152	****	200	276	308
3P COL., 3 MIN 20 SEC		6.0	****	4.0	****	4.0	****	6.0	****	6.0	4.0	8.0
3P COL., 4 MIN 5 SEC		4.0	****	10.0	****	4.0	****	6.0	****	6.0	6.0	****
3P COL., 4 MIN 50 SEC		****	****	****	****	****	****	****	****	24.0	****	0.0
3P COL., 5 MIN 30 SEC		****	****	36.0	****	****	****	****	****	8.0	8.0	****

SURROGATE RUN 28-E
GLASS CHAMBER
1973 OCT 24

CLOCK TIME	1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 6 MIN 50 SEC	0.0	****	2.0	****	2.0	****	2.0	****	4.0	4.0	6.0
3P COL., 13 MIN 50 SEC	28.0	****	16.0	****	16.0	****	14.0	****	0.0	0.0	0.0
3P COL., 32 MIN 0 SEC	****	****	15.0	****	16.0	****	****	****	****	12.0	14.0
3P COL., 47 MIN 0 SEC	****	****	****	****	****	****	****	****	44.0	56.0	****

SURROGATE RUN 29-E
GLASS CHAMBER
1973 OCT 25

13:00 17:00 SAMPLES HELD IN SYRINGE 2 MIN
14:00 15:00 16:00 SAMPLES HELD IN SYRINGE 30 SEC

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1920	****	****	****	1690	****	****	****	1920	****	1920
	PPBC	1920	****	****	****	1890	****	****	****	1920	****	1920
ETHENE		16.8	****	****	****	14.8	****	****	****	13.2	****	11.6
	PPBC	33.6	****	****	****	29.6	****	****	****	26.4	****	23.2
ETHANE		22.8	****	****	****	23.0	****	****	****	23.6	****	22.4
	PPBC	45.6	****	****	****	46.0	****	****	****	47.2	****	44.8
ACETYLENE (POROPAK N)		21.2	****	****	****	20.4	****	****	****	21.0	****	20.0
	PPBC	42.4	****	****	****	40.8	****	****	****	42.0	****	40.0
PROPANE		11.9	11.6	11.8	11.5	10.9	11.5	11.3	11.3	11.3	11.6	11.6
	PPBC	35.7	34.8	35.4	34.5	32.7	34.5	33.9	33.9	33.9	34.8	34.8
PROPENE		4.2	4.1	3.2	2.7	2.4	2.2	1.9	1.8	1.7	1.4	1.2
	PPBC	12.6	12.3	9.6	8.1	7.2	6.6	5.7	5.4	5.1	4.2	3.6
ISOBUTANE		0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.7	1.2
	PPBC	2.4	2.0	2.4	2.0	2.4	2.4	2.4	2.4	2.8	2.8	4.8
N-BUTANE		35.8	35.1	35.1	33.9	32.4	32.8	31.4	31.5	32.0	31.9	31.0
	PPBC	143	140	140	136	130	131	126	126	128	128	124
ACETYLENE (DMS)		21.4	21.8	21.6	21.2	20.0	20.8	20.8	20.8	20.8	20.8	21.0
	PPBC	42.8	43.6	43.2	42.4	40.0	41.6	41.6	41.6	41.6	41.6	42.0
ISOBUTENE		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
TRANS-2-BUTENE		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.6	0.7	0.8	1.4	1.4	1.4	2.2	1.7	1.8	2.7	2.7
	PPBC	3.0	3.5	4.0	7.0	7.0	7.0	11.0	8.5	9.0	13.5	13.5
CIS-2-BUTENE		4.2	3.0	1.9	1.4	1.2	1.0	0.6	0.0	0.0	0.0	0.0
	PPBC	16.8	12.0	7.6	5.6	4.8	4.0	2.4	0.0	0.0	0.0	0.0
N-PENTANE		0.7	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.7	1.0	1.0
	PPBC	3.5	2.5	2.5	2.5	3.5	2.5	2.5	2.5	3.5	5.0	5.0

SURROGATE RUN 29-E
GLASS CHAMBER
1973 OCT 25

CLOCK TIME		1100	1130	1200	1230	1300	1330	1400	1430	1500	1600	1700
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2,3-DIMETHYL BUTANE		21.4	21.4	20.8	18.9	18.3	18.5	18.6	17.6	16.2	16.5	15.2
	PPBC	128	128	125	113	110	111	112	106	97.2	99.0	91.2
2-METHYL BUTENE-2		4.8	1.7	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	24.0	8.5	8.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		0.6	****	7.6	****	26.2	****	8.8	****	8.8	8.8	17.0
	PPBC	1.2	****	15.2	****	52.4	****	17.6	****	13.6	17.6	34.0
PROPIONALDEHYDE		0.3	****	0.5	****	1.6	****	0.8	****	1.2	1.2	2.2
	PPBC	0.9	****	1.5	****	4.8	****	2.4	****	3.6	3.6	6.6
ACETONE		0.3	****	6.8	****	26.4	****	9.8	****	9.0	11.2	22.8
	PPBC	0.9	****	20.4	****	79.2	****	29.4	****	27.0	33.6	68.4
BENZENE		0.0	****	0.2	****	0.2	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	1.2	****	1.2	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.2	****	0.8	****	5.6	****	4.0	****	1.0	1.2	1.8
	PPBC	0.8	****	3.2	****	22.4	****	16.0	****	4.0	4.8	7.2
TOLUENE		3.6	****	4.0	****	4.0	****	3.6	****	3.8	3.6	3.0
	PPBC	25.2	****	28.0	****	28.0	****	25.2	****	26.6	25.2	21.0
ETHYL BENZENE		0.2	****	0.4	****	0.0	****	0.2	****	0.2	0.2	****
	PPBC	1.6	****	3.2	****	0.0	****	1.6	****	1.6	1.6	****
PARA-XYLENE		0.4	****	0.0	****	2.0	****	0.2	****	1.2	1.5	****
	PPBC	3.2	****	0.0	****	16.0	****	1.6	****	9.6	12.0	****
META-XYLENE		7.5	****	5.8	****	5.0	****	5.0	****	3.5	3.0	2.6
	PPBC	60.0	****	46.4	****	40.0	****	40.0	****	28.0	24.0	20.8
ISOPROPYL BENZENE		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.2
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	1.8
ORTHO-XYLENE		0.2	****	0.3	****	0.2	****	0.0	****	0.2	0.2	0.2
	PPBC	1.6	****	2.4	****	1.6	****	0.0	****	1.6	1.6	1.6
META-ETHYL TOLUENE		0.4	****	0.0	****	1.8	****	0.0	****	0.6	0.6	1.0
	PPBC	3.6	****	0.0	****	16.2	****	0.0	****	5.4	5.4	9.0
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	1.5
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	3.0
FORMALDEHYDE		54.0	****	95.0	****	115	****	136	****	156	194	181
	PPBC	54.0	****	95.0	****	115	****	136	****	156	194	181
3P COL. 2 MIN 40 SEC		26.0	****	56.0	****	104	****	156	****	230	244	276
	PPBC	26.0	****	56.0	****	104	****	156	****	230	244	276
3P COL., 3 MIN 20 SEC		6.0	****	4.0	****	6.0	****	12.0	****	14.0	12.0	****

SURROGATE RUN 29-E
GLASS CHAMBER
1973 OCT 25

CLOCK TIME ELAPSED TIME(HR)	1100 0.00	1130 0.50	1200 1.00	1230 1.50	1300 2.00	1330 2.50	1400 3.00	1430 3.50	1500 4.00	1600 5.00	1700 6.00
3P COL., 4 MIN 05 SEC	2.0	****	2.0	****	2.0	****	0.0	****	0.0	1.0	2.0
3P COL., 5 MIN 20 SEC	4.0	****	6.0	****	4.0	****	0.0	****	0.0	0.0	4.0
3P COL., 6 MIN 50 SEC	2.0	****	2.0	****	****	****	4.0	****	4.0	3.0	4.0
3P COL., 13 MIN 50 SEC	0.0	****	0.0	****	2.0	****	0.0	****	0.0	0.0	1.0
3P COL., 21 MIN 30 SEC	0.0	****	0.0	****	4.0	****	2.0	****	3.0	3.0	3.0
3P COL., 33 MIN 00 SEC	0.0	****	0.0	****	10.0	****	6.0	****	4.0	3.0	4.0
3P COL., 46 MIN 00 SEC	****	****	****	****	****	****	****	****	16.0	20.0	****

SURROGATE RUN 30-E
GLASS CHAMBER
1973 OCT 26

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1730	****	****	****	****	1740	0.0	****	1740	****	1740
	PPBC	1730	****	****	****	****	1740	0.0	****	1740	****	1740
ETHENE		16.0	****	****	****	****	12.8	0.0	****	11.2	****	10.4
	PPBC	32.0	****	****	****	****	25.6	0.0	****	22.4	****	20.8
ETHANE		30.4	****	****	****	****	29.6	0.0	****	29.2	****	29.6
	PPBC	60.8	****	****	****	****	59.2	0.0	****	58.4	****	59.2
ACETYLENE (POROPAK N)		20.0	****	****	****	****	18.4	0.0	****	16.8	****	16.8
	PPBC	40.0	****	****	****	****	36.8	0.0	****	33.6	****	33.6
PROPANE		13.7	13.2	13.2	13.0	12.8	12.8	12.8	****	12.8	12.6	11.5
	PPBC	41.1	39.6	39.6	39.0	38.4	38.4	38.4	****	38.4	37.8	34.5
PROPENE		4.6	3.8	3.4	2.6	2.4	2.1	1.9	****	1.7	1.2	0.7
	PPBC	13.8	11.4	10.2	7.8	7.2	6.3	5.7	****	5.1	3.6	2.1
ISOBUTANE		0.6	0.6	0.6	0.6	0.6	0.6	0.6	****	0.6	0.6	0.6
	PPBC	2.4	2.4	2.4	2.4	2.4	2.4	2.4	****	2.4	2.4	2.4
N-BUTANE		34.2	33.6	33.2	32.4	31.2	30.8	30.8	****	29.9	****	26.9
	PPBC	137	134	133	130	125	123	123	****	120	****	108
ACETYLENE (DMS)		20.4	19.2	19.3	19.0	18.3	18.6	18.5	****	18.3	18.0	16.8
	PPBC	40.8	38.4	38.6	38.0	36.6	37.2	37.0	****	36.6	36.0	33.6
ISOPENTANE		1.0	1.0	1.2	1.2	1.2	1.4	1.4	****	1.4	1.7	1.7
	PPBC	5.0	5.0	6.0	6.0	6.0	7.0	7.0	****	7.0	8.5	8.5
CIS-2-BUTENE		3.8	1.9	1.6	1.2	0.8	0.5	0.4	****	0.0	0.0	0.0
	PPBC	15.2	7.6	6.4	4.8	3.2	2.0	1.6	****	0.0	0.0	0.0
N-PENTANE		0.2	0.2	0.2	0.2	0.2	0.2	0.2	****	0.5	0.7	0.7
	PPBC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	****	2.5	3.5	3.5
2,3-DIMETHYL BUTANE		22.6	21.2	20.2	19.9	18.3	18.0	17.5	****	17.1	15.6	15.2
	PPBC	136	127	121	119	110	108	105	****	103	93.6	91.2
2-METHYL BUTENE-2		3.6	2.4	0.0	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0
	PPBC	18.0	12.0	0.0	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0

SURROGATE RUN 30-E
GLASS CHAMBER
1973 OCT 26

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.8	****	14.0	****	6.4	****	18.8	****	11.6	12.0	12.0
	PPBC	1.6	****	28.0	****	12.8	****	37.6	****	23.2	24.0	24.0
PROPIONALDEHYDE		0.9	****	1.6	****	1.2	****	1.4	****	1.6	1.8	2.0
	PPBC	2.7	****	4.8	****	3.6	****	4.2	****	4.8	5.4	6.0
ACETONE		2.4	****	14.0	****	10.0	****	13.4	****	****	18.4	19.2
	PPBC	7.2	****	42.0	****	30.0	****	40.2	****	****	55.2	57.6
METHYL ETHYL KETONE		1.0	****	1.2	****	1.2	****	****	****	****	****	****
	PPBC	4.0	****	4.8	****	4.8	****	****	****	****	****	****
TOLUENE		4.4	****	4.4	****	3.6	****	3.6	****	3.4	4.0	3.6
	PPBC	30.8	****	30.8	****	25.2	****	25.2	****	23.8	28.0	25.2
ETHYL BENZENE		0.2	****	0.2	****	0.2	****	****	****	0.2	****	0.2
	PPBC	1.6	****	1.6	****	1.6	****	****	****	1.6	****	1.6
PARA-XYLENE		1.6	****	4.0	****	2.0	****	****	****	2.4	****	****
	PPBC	12.8	****	32.0	****	16.0	****	****	****	19.2	****	****
META-XYLENE		7.9	****	6.4	****	4.8	****	4.4	****	4.0	3.2	4.0
	PPBC	63.2	****	51.2	****	36.4	****	35.2	****	32.0	25.6	32.0
ISOPROPYL BENZENE		0.1	****	0.1	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.9	****	0.9	****	0.0	****	0.0	****	0.0	0.0	0.0
ORTHO-XYLENE		0.2	****	0.2	****	0.2	****	0.2	****	0.2	0.2	0.2
	PPBC	1.6	****	1.6	****	1.6	****	1.6	****	1.6	1.6	1.6
META-ETHYL TOLUENE		2.0	****	2.8	****	1.5	****	0.6	****	1.4	1.0	1.0
	PPBC	18.0	****	25.2	****	13.5	****	5.4	****	12.6	9.0	9.0
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
FORMALDEHYDE		97.0	****	93.0	****	115	****	129	****	138	152	****
	PPBC	97.0	****	93.0	****	115	****	129	****	138	152	****
3P COL. 2 MIN 40 SEC		48.0	****	88.0	****	112	****	152	****	188	228	264
	PPBC	48.0	****	88.0	****	112	****	152	****	188	228	264
3P COL., 3 MIN 20 SEC		16.0	****	****	****	****	****	4.0	****	4.0	2.0	4.0
3P COL., 4 MIN 5 SEC		1.0	****	2.0	****	4.0	****	4.0	****	6.0	6.0	6.0
3P COL., 5 MIN 30 SEC		****	****	****	****	4.0	****	6.0	****	4.0	4.0	4.0
3P COL., 6 MIN 50 SEC		2.0	****	2.0	****	2.0	****	4.0	****	4.0	4.0	6.0
3P COL., 13 MIN 50 SEC		4.0	****	6.0	****	4.0	****	4.0	****	2.0	2.0	2.0

SURROGATE RUN 30-E
GLASS CHAMBER
1973 OCT 26

CLOCK TIME	1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 21 MIN 0 SEC	2.0	****	2.0	****	2.0	****	2.0	****	2.0	2.0	3.0
3P COL., 22 MIN 30 SEC	8.0	****	8.0	****	6.0	****	4.0	****	4.0	3.0	4.0
3P COL., 32 MIN 0 SEC	12.0	****	16.0	****	12.0	****	8.0	****	8.0	12.0	8.0
3P COL., 40 MIN 0 SEC	4.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 45 MIN 30 SEC	15.0	****	15.0	****	16.0	****	14.0	****	21.0	22.0	24.0

SURROGATE RUN 31-E
GLASS CHAMBER
1973 OCT 29

1015 OXYGENATE DATA QUESTIONABLE - SAMPLE THAWED 6 MIN PRIOR TO INJECTION
1415 AND 1515 OXYGENATE SAMPLES HELD IN SYRINGE ABOUT 2 MIN

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1730	****	****	****	1730	****	****	****	1720	****	1750
	PPBC	1730	****	****	****	1730	****	****	****	1720	****	1750
ETHENE		12.0	****	****	****	11.2	****	****	****	9.6	****	8.8
	PPBC	24.0	****	****	****	22.4	****	****	****	19.2	****	17.6
ETHANE		21.6	****	****	****	22.4	****	****	****	20.8	****	20.8
	PPBC	43.2	****	****	****	44.8	****	****	****	41.6	****	41.6
ACETYLENE (PORAPAK N)		14.0	****	****	****	12.8	****	****	****	13.2	****	13.0
	PPBC	28.0	****	****	****	25.6	****	****	****	26.4	****	26.0
PROPANE		11.6	11.4	11.2	11.4	11.2	10.8	10.6	911	11.5	11.0	10.6
	PPBC	34.8	34.2	33.6	34.2	33.6	32.4	31.8	2730	34.5	33.0	31.8
PROPENE		3.6	3.0	2.6	2.4	2.0	1.8	1.6	1.4	1.4	0.8	0.8
	PPBC	10.8	9.0	7.8	7.2	6.0	5.4	4.8	4.2	4.2	2.4	2.4
ISOBUTANE		0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.2
	PPBC	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	1.2	1.6	0.8
N-BUTANE		****	27.2	26.8	26.0	25.6	25.0	24.8	23.6	24.0	****	22.0
	PPBC	****	109	107	104	102	100	99.2	94.4	96.0	****	88.0
ACETYLENE (DMS)		12.8	13.0	12.5	12.4	12.0	12.0	11.8	12.0	12.0	12.0	11.4
	PPBC	25.6	26.0	25.0	24.8	24.0	24.0	23.6	24.0	24.0	24.0	22.8
ISOPENTANE		0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.4	0.4	0.3	0.3
	PPBC	1.0	1.0	1.0	2.0	2.0	2.5	2.5	2.0	2.0	1.5	1.5
CIS-2-BUTENE		3.0	2.2	1.5	1.2	0.8	0.6	0.4	0.0	0.0	0.0	0.0
	PPBC	12.0	8.8	6.0	4.8	3.2	2.4	1.6	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
2,3-DIMETHYL BUTANE		17.5	16.8	16.0	15.8	15.2	14.5	14.0	13.2	12.8	13.0	12.2
	PPBC	105	101	96.0	94.8	91.2	87.0	84.0	79.2	76.8	78.0	73.2
2-METHYL BUTENE-2		2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	12.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 31-E
GLASS CHAMBER
1973 OCT 29

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.6	****	3.8	****	4.8	****	7.4	****	18.4	26.0	24.0
	PPBC	1.2	****	7.6	****	9.6	****	14.8	****	36.8	52.0	48.0
PROPIONALDEHYDE		0.6	****	0.4	****	0.6	****	1.0	****	4.0	4.0	4.2
	PPBC	1.8	****	1.2	****	1.8	****	3.0	****	12.0	12.0	12.6
ACETONE		2.8	****	3.9	****	6.4	****	10.8	****	27.6	29.6	****
	PPBC	8.4	****	11.7	****	19.2	****	32.4	****	82.8	88.8	****
BENZENE		0.1	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.6	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.3	****	0.4	****	0.8	****	****	****	1.6	1.6	2.0
	PPBC	1.2	****	1.6	****	3.2	****	****	****	6.4	6.4	8.0
TOLUENE		2.7	****	3.0	****	3.2	****	2.7	****	4.2	4.0	3.6
	PPBC	18.9	****	21.0	****	22.4	****	18.9	****	29.4	28.0	25.2
ETHYL BENZENE		****	****	0.2	****	0.2	****	****	****	0.2	****	****
	PPBC	****	****	1.6	****	1.6	****	****	****	1.6	****	****
PARA-XYLENE		****	****	1.4	****	2.0	****	****	****	****	****	****
	PPBC	****	****	11.2	****	16.0	****	****	****	****	****	****
META-XYLENE		6.0	****	5.2	****	4.8	****	2.1	****	2.4	3.2	3.6
	PPBC	48.0	****	41.6	****	38.4	****	16.8	****	19.2	25.6	28.8
ORTHO-XYLENE		0.0	****	0.0	****	0.0	****	0.0	****	0.2	0.2	0.2
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	1.6	1.6	1.6
META-ETHYL TOLUENE		1.0	****	0.6	****	0.4	****	0.6	****	3.0	3.0	2.7
	PPBC	9.0	****	5.4	****	3.6	****	5.4	****	27.0	27.0	24.3
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.5	1.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	1.0	2.0
FORMALDEHYDE		****	****	108	****	117	****	113	****	140	143	162
	PPBC	****	****	108	****	117	****	113	****	140	143	162
3P COL. 2 MIN 40 SEC		30.0	****	66.0	****	164	****	140	****	264	264	308
	PPBC	30.0	****	66.0	****	164	****	140	****	264	264	308
3P COL., 3 MIN 20 SEC		0.0	****	180	****	72.0	****	****	****	****	****	****
3P COL., 4 MIN 5 SEC		****	****	****	****	4.0	****	4.0	****	16.0	16.0	20.0
3P COL., 5 MIN 30 SEC		****	****	****	****	****	****	6.0	****	****	****	25.0
3P COL., 6 MIN 50 SEC		0.0	****	0.0	****	2.0	****	2.0	****	4.0	8.0	4.0
3P COL., 13 MIN 50 SEC		8.0	****	2.0	****	2.0	****	0.0	****	6.0	5.0	6.0

SURROGATE RUN 31-E
GLASS CHAMBER
1973 OCT 29

CLOCK TIME ELAPSED TIME(HR)	1015 0.00	1045 0.50	1115 1.00	1145 1.50	1215 2.00	1245 2.50	1315 3.00	1345 3.50	1415 4.00	1515 5.00	1615 6.00
3P COL., 18 MIN 00 SEC	4.0	****	1.0	****	0.0	****	0.0	****	2.0	2.0	2.0
3P COL., 21 MIN 30 SEC	6.0	****	2.0	****	2.0	****	3.0	****	3.0	4.0	4.0
3P COL., 22 MIN 00 SEC	0.0	****	0.0	****	0.0	****	3.0	****	8.0	8.0	8.0
3P COL., 32 MIN 00 SEC	8.0	****	4.0	****	4.0	****	7.0	****	16.0	16.0	16.0
3P COL., 47 MIN 00 SEC	****	****	6.0	****	****	****	12.0	****	****	****	****

SURROGATE RUN 32-E
GLASS CHAMBER
1973 OCT 31

ETHYL BENZENE, P-DIMETHYL BENZENE UNCERTAIN--SEE ORIG CHROMATOGRAMS

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1600
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	6.00
		CONCENTRATIONS (PPB)											
METHANE		1780	****	****	****	1740	****	****	****	1730	****	****	1730
	PPBC	1780	****	****	****	1740	****	****	****	1730	****	****	1730
ETHENE		14.5	****	****	****	10.0	****	****	****	9.5	****	****	8.4
	PPBC	29.0	****	****	****	20.0	****	****	****	19.0	****	****	16.8
ETHANE		20.6	****	****	****	19.3	****	****	****	21.0	****	****	18.1
	PPBC	41.2	****	****	****	38.6	****	****	****	42.0	****	****	36.2
ACETYLENE (PORAPAK N)		14.5	****	****	****	14.3	****	****	****	14.7	****	****	13.4
	PPBC	29.0	****	****	****	28.6	****	****	****	29.4	****	****	26.8
PROPANE		14.3	14.4	14.3	14.2	13.8	13.7	13.4	13.5	13.4	13.3	13.4	13.4
	PPBC	42.9	43.2	42.9	42.6	41.4	41.1	40.2	40.5	40.2	39.9	40.2	40.2
PROPYNE		4.3	3.8	3.0	2.8	2.2	1.9	1.6	1.6	1.5	1.5	1.3	1.1
	PPBC	12.9	11.4	9.0	8.4	6.6	5.7	4.8	4.8	4.5	4.5	3.9	3.3
ISOBUTANE		0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.4	0.6
	PPBC	1.6	1.6	1.2	1.2	1.2	1.6	1.6	2.0	2.0	2.0	1.6	2.4
N-BUTANE		33.0	33.0	32.0	31.2	31.0	****	****	29.1	28.7	28.2	28.3	27.4
	PPBC	132	132	128	125	124	****	****	116	115	113	113	110
ACETYLENE (DMS)		15.4	15.0	15.2	15.4	14.1	14.4	14.2	14.8	14.4	14.4	14.2	13.9
	PPBC	30.8	30.0	30.4	30.8	28.2	28.8	28.4	29.6	28.8	28.8	28.4	27.8
ISOPENTANE		0.0	0.5	0.6	0.6	0.9	0.6	0.8	1.3	1.1	1.5	1.3	1.5
	PPBC	0.0	2.5	3.0	3.0	4.5	3.0	4.0	6.5	5.5	7.5	6.5	7.5
CIS-2-BUTENE		3.4	2.8	1.5	1.1	0.9	0.6	0.5	0.5	0.4	0.4	0.0	0.0
	PPBC	13.6	11.2	6.0	4.4	3.6	2.4	2.0	2.0	1.6	1.6	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.4	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.5	2.0	2.5
2,3-DIMETHYL BUTANE		21.0	19.8	19.7	18.4	18.4	16.3	16.3	16.8	15.0	14.8	14.8	13.7
	PPBC	126	119	118	110	110	97.8	97.8	101	90.0	88.8	88.8	82.2
2-METHYL BUTENE-2		3.2	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	16.0	6.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 32-E
GLASS CHAMBER
1973 OCT 31

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1600
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	6.00
ACETALDEHYDE		0.6	****	1.6	****	6.4	****	0.0	****	29.6	****	****	47.2
	PPBC	1.2	****	3.2	****	12.8	****	0.0	****	59.2	****	****	94.4
PROPIONALDEHYDE		0.9	****	0.6	****	0.8	****	2.5	****	2.8	****	4.0	5.2
	PPBC	2.7	****	1.8	****	2.4	****	7.5	****	8.4	****	12.0	15.6
ACETONE		3.6	****	6.0	****	7.0	****	40.0	****	32.8	****	****	54.5
	PPBC	10.8	****	18.0	****	21.0	****	120	****	98.4	****	****	164
BENZENE		0.0	****	0.2	****	0.0	****	0.0	****	0.0	****	0.0	0.0
	PPBC	0.0	****	1.2	****	0.0	****	0.0	****	0.0	****	0.0	0.0
METHYL ETHYL KETONE		0.4	****	2.0	****	0.8	****	1.8	****	2.0	****	3.2	7.6
	PPBC	1.6	****	8.0	****	3.2	****	7.2	****	8.0	****	12.8	30.4
TOLUENE		3.3	****	3.4	****	3.6	****	3.2	****	3.8	****	5.2	3.6
	PPBC	23.1	****	23.8	****	25.2	****	22.4	****	26.6	****	36.4	25.2
ETHYL BENZENE		0.1	****	****	****	0.1	****	****	****	0.1	****	****	****
	PPBC	0.8	****	****	****	0.8	****	****	****	0.8	****	****	****
PARA-XYLENE		0.1	****	****	****	0.0	****	****	****	0.2	****	****	****
	PPBC	0.8	****	****	****	0.0	****	****	****	1.6	****	****	****
META-XYLENE		8.5	****	5.4	****	6.2	****	3.6	****	8.8	****	7.4	3.0
	PPBC	68.0	****	43.2	****	49.6	****	28.8	****	70.4	****	59.2	24.0
ISOPROPYL BENZENE		0.0	****	0.0	****	0.0	****	0.0	****	0.2	****	0.2	0.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	1.8	****	1.8	0.0
ORTHO-XYLENE		0.0	****	0.0	****	0.2	****	0.2	****	0.2	****	0.2	0.2
	PPBC	0.0	****	0.0	****	1.6	****	1.6	****	1.6	****	1.6	1.6
META-ETHYL TOLUENE		1.0	****	0.6	****	1.0	****	1.0	****	1.0	****	1.5	1.5
	PPBC	9.0	****	5.4	****	9.0	****	9.0	****	9.0	****	13.5	13.5
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0
FORMALDEHYDE		****	****	73.0	****	97.0	****	102	****	113	****	113	127
	PPBC	****	****	73.0	****	97.0	****	102	****	113	****	113	127
3P COL. 2 MIN 40 SEC		40.0	****	54.0	****	90.0	****	142	****	224	****	256	280
	PPBC	40.0	****	54.0	****	90.0	****	142	****	224	****	256	280
3P COL., 3 MIN 30 SEC		4.0	****	****	****	****	****	2.0	****	2.0	****	****	4.0
3P COL., 4 MIN 5 SEC		****	****	2.0	****	****	****	2.0	****	2.0	****	4.0	****
3P COL., 5 MIN 30 SEC		****	****	6.0	****	****	****	20.0	****	20.0	****	****	20.0
3P COL., 6 MIN 50 SEC		0.0	****	2.0	****	3.0	****	5.0	****	3.0	****	4.0	4.0

SURROGATE RUN 32-E
GLASS CHAMBER
1973 OCT 31

CLOCK TIME	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1600
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	6.00
3P COL., 13 MIN 40 SEC	****	****	0.0	****	0.0	****	3.0	****	3.0	****	2.0	2.0
3P COL., 21 MIN 30 SEC	2.0	****	3.0	****	3.0	****	5.0	****	4.0	****	5.0	5.0
3P COL., 22 MIN 30 SEC	5.0	****	3.0	****	3.0	****	10.0	****	10.0	****	10.0	10.0
3P COL., 33 MIN SEC	5.0	****	3.0	****	5.0	****	10.0	****	12.0	****	16.0	16.0
3P COL., 46 MIN SEC	****	****	****	****	3.0	****	8.0	****	****	****	22.0	****

SURROGATE RUN 34-E
GLASS CHAMBER
1973 NOV 6

C2'S SYRINGE HAD POSSIBLE LEAK

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1730	****	****	****	1720	****	****	****	1690	****	1700
	PPBC	1730	****	****	****	1720	****	****	****	1690	****	1700
ETHENE		15.2	****	****	****	13.5	****	****	****	****	****	7.8
	PPBC	30.4	****	****	****	27.0	****	****	****	****	****	15.6
ETHANE		28.8	****	****	****	31.2	****	****	****	****	****	30.8
	PPBC	57.6	****	****	****	62.4	****	****	****	****	****	61.6
ACETYLENE (PORAPAK N)		20.0	****	****	****	21.6	****	****	****	****	****	19.2
	PPBC	40.0	****	****	****	43.2	****	****	****	****	****	38.4
PROPANE		13.0	12.9	12.7	12.6	12.4	12.4	11.8	11.8	11.8	11.6	11.4
	PPBC	39.0	38.7	38.1	37.8	37.2	37.2	35.4	35.4	35.4	34.8	34.2
PROPENE		3.8	3.1	2.4	1.8	1.5	1.4	1.0	0.8	0.6	0.5	0.3
	PPBC	11.4	9.3	7.2	5.4	4.5	4.2	3.0	2.4	1.8	1.5	0.9
ISOBUTANE		0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.8
	PPBC	1.2	1.2	1.2	1.2	1.6	2.0	2.0	2.4	2.4	2.4	3.2
N-BUTANE		31.2	30.4	29.6	28.8	28.2	27.6	26.4	26.4	25.6	25.0	23.6
	PPBC	125	122	118	115	113	110	106	106	102	100	94.4
ACETYLENE (DMS)		22.0	21.6	21.6	20.8	21.0	20.8	19.8	20.4	19.6	19.2	19.0
	PPBC	44.0	43.2	43.2	41.6	42.0	41.6	39.6	40.8	39.2	38.4	38.0
ISOPENTANE		0.0	0.2	0.5	0.4	0.9	0.6	1.2	0.6	0.6	1.0	1.7
	PPBC	0.0	1.0	2.5	2.0	4.5	3.0	6.0	3.0	3.0	5.0	8.5
CIS-2-BUTENE		3.6	2.0	1.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	14.4	8.0	6.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.3	0.3	0.5	0.6
	PPBC	0.0	0.0	0.0	0.0	1.0	2.0	2.0	1.5	1.5	2.5	3.0
2,3-DIMETHYL BUTANE		21.0	18.2	17.0	16.0	15.7	14.6	13.6	13.0	13.0	12.4	10.3
	PPBC	126	109	102	96.0	94.2	87.6	81.6	78.0	78.0	74.4	61.8
2-METHYL BUTENE-2		2.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	10.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 34-E
GLASS CHAMBER
1973 NOV 6

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.2	****	8.0	****	0.4	****	20.0	****	28.0	7.6	7.2
	PPBC	0.4	****	16.0	****	0.8	****	40.0	****	56.0	15.2	14.4
PROPIONALDEHYDE		0.6	****	0.8	****	1.4	****	1.2	****	4.0	2.0	2.0
	PPBC	1.8	****	2.4	****	4.2	****	3.6	****	12.0	6.0	6.0
ACETONE		1.6	****	5.2	****	8.0	****	26.0	****	25.6	19.2	15.6
	PPBC	4.8	****	15.6	****	24.0	****	78.0	****	76.8	57.6	46.8
BENZENE		0.0	****	0.0	****	0.0	****	0.8	****	2.0	0.0	0.0
	PPBC	0.0	****	0.0	****	0.0	****	4.8	****	12.0	0.0	0.0
METHYL ETHYL KETONE		0.4	****	0.8	****	0.8	****	0.8	****	2.4	****	1.6
	PPBC	1.6	****	3.2	****	3.2	****	3.2	****	9.6	****	6.4
TOLUENE		3.0	****	3.2	****	2.8	****	3.2	****	2.4	2.8	3.6
	PPBC	21.0	****	22.4	****	19.6	****	22.4	****	16.8	19.6	25.2
ETHYL BENZENE		0.2	****	0.2	****	0.1	****	****	****	****	0.0	0.2
	PPBC	1.6	****	1.6	****	0.8	****	****	****	****	0.0	1.6
PARA-XYLENE		2.0	****	2.6	****	3.4	****	****	****	****	****	2.0
	PPBC	16.0	****	20.8	****	27.2	****	****	****	****	****	16.0
META-XYLENE		5.4	****	4.4	****	3.0	****	2.6	****	8.0	1.6	1.2
	PPBC	43.2	****	35.2	****	24.0	****	20.8	****	64.0	12.8	9.6
META-ETHYL TOLUENE		0.8	****	0.6	****	2.0	****	2.6	****	8.8	1.6	1.8
	PPBC	7.2	****	5.4	****	18.0	****	23.4	****	79.2	14.4	16.2
PAN		0.0	****	0.0	****	1.5	****	3.0	****	4.0	5.0	6.0
	PPBC	0.0	****	0.0	****	3.0	****	6.0	****	8.0	10.0	12.0
FORMALDEHYDE		72.0	****	75.0	****	89.0	****	113	****	126	131	130
	PPBC	72.0	****	75.0	****	89.0	****	113	****	126	131	130
3P COL. 2 MIN 40 SEC		26.0	****	34.0	****	98.0	****	32.0	****	16.0	104	128
	PPBC	26.0	****	34.0	****	98.0	****	32.0	****	16.0	104	128
3P COL., 3 MIN 20 SEC		6.0	****	0.0	****	0.0	****	7.0	****	0.0	0.0	12.0
3P COL., 4 MIN 5 SEC		****	****	8.0	****	4.0	****	18.0	****	****	****	****
3P COL., 5 MIN 30 SEC		****	****	****	****	****	****	10.0	****	****	8.0	****
3P COL., 6 MIN 50 SEC		0.0	****	0.0	****	4.0	****	2.0	****	6.0	4.0	4.0
3P COL., 13 MIN 50 SEC		6.0	****	6.0	****	5.0	****	10.0	****	5.0	4.0	3.0
3P COL., 21 MIN SEC		0.0	****	0.0	****	2.0	****	2.0	****	4.0	0.0	3.0
3P COL., 22 MIN 0 SEC		0.0	****	0.0	****	2.0	****	2.0	****	4.0	0.0	0.0

SURROGATE RUN 34-E
GLASS CHAMBER
1973 NOV 6

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 32 MIN 0 SEC	5.0	****	10.0	****	12.0	****	19.0	****	28.0	12.0	10.0
3P COL., 47 MIN 0 SEC	****	****	****	****	8.0	****	20.0	****	32.0	32.0	****

SURROGATE RUN 35-E
GLASS CHAMBER
1973 NOV 7

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1700	****	****	****	1700	****	****	****	1700	****	1700
	PPBC	1700	****	****	****	1700	****	****	****	1700	****	1700
ETHENE		15.2	****	****	****	14.4	****	****	****	11.6	****	9.8
	PPBC	30.4	****	****	****	28.8	****	****	****	23.2	****	19.6
ETHANE		30.4	****	****	****	36.8	****	****	****	32.0	****	30.4
	PPBC	60.8	****	****	****	73.6	****	****	****	64.0	****	60.8
ACETYLENE (PORAPAK N)		21.6	****	****	****	21.6	****	****	****	21.2	****	18.8
	PPBC	43.2	****	****	****	43.2	****	****	****	42.4	****	37.6
PROPANE		13.2	13.4	13.0	12.8	12.8	12.8	12.6	12.6	12.8	12.6	12.6
	PPBC	39.6	40.2	39.0	38.4	38.4	38.4	37.8	37.8	38.4	37.8	37.8
PROPENE		3.9	3.4	2.5	2.4	2.0	1.7	1.4	1.3	1.0	0.7	0.6
	PPBC	11.7	10.2	7.5	7.2	6.0	5.1	4.2	3.9	3.0	2.1	1.8
ISOBUTANE		0.4	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.2	1.4
	PPBC	1.6	3.2	3.2	3.2	3.2	3.6	4.0	4.0	4.0	4.8	5.6
N-BUTANE		32.0	32.4	30.4	29.6	29.4	29.2	28.6	28.4	28.0	26.4	****
	PPBC	128	130	122	118	118	117	114	114	112	106	****
ACETYLENE (DMS)		22.4	22.6	22.0	21.7	21.6	21.8	21.0	21.0	21.0	20.8	19.4
	PPBC	44.8	45.2	44.0	43.4	43.2	43.6	42.0	42.0	42.0	41.6	38.8
ISOPENTANE		1.0	1.4	1.8	1.6	2.1	2.0	1.9	2.0	2.0	2.2	2.4
	PPBC	5.0	7.0	9.0	8.0	10.5	10.0	9.5	10.0	10.0	11.0	12.0
CIS-2-BUTENE		3.6	2.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	14.4	11.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		1.0	0.6	0.8	0.6	0.6	1.0	0.8	0.8	0.8	1.0	1.0
	PPBC	5.0	3.0	4.0	3.0	3.0	5.0	4.0	4.0	4.0	5.0	5.0
2,3-DIMETHYL BUTANE		19.0	18.8	17.0	17.0	16.0	15.9	15.0	15.0	14.4	13.4	12.4
	PPBC	114	113	102	102	96.0	95.4	90.0	90.0	86.4	80.4	74.4
2-METHYL BUTENE-2		3.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	17.0	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 35-E
GLASS CHAMBER
1973 NOV 7

CLOCK TIME		1130	1200	1230	1300	1330	1400	1430	1500	1530	1630	1730
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		1.0	****	16.0	****	8.8	****	7.9	****	11.0	9.6	****
	PPBC	2.0	****	32.0	****	17.6	****	15.8	****	22.0	19.2	****
PROPIONALDEHYDE		0.8	****	2.0	****	1.0	****	1.7	****	2.2	2.0	****
	PPBC	2.4	****	6.0	****	3.0	****	5.1	****	6.6	6.0	****
ACETONE		1.2	****	16.0	****	8.0	****	12.0	****	17.6	13.2	****
	PPBC	3.6	****	48.0	****	24.0	****	36.0	****	52.8	39.6	****
BENZENE		0.8	****	0.0	****	0.2	****	0.1	****	0.1	0.0	****
	PPBC	4.8	****	0.0	****	1.2	****	0.6	****	0.6	0.0	****
METHYL ETHYL KETONE		0.2	****	****	****	****	****	****	****	0.8	****	****
	PPBC	0.8	****	****	****	****	****	****	****	3.2	****	****
TOLUENE		3.6	****	3.6	****	3.0	****	2.8	****	2.4	9.0	****
	PPBC	25.2	****	25.2	****	21.0	****	19.6	****	16.8	63.0	****
ETHYL BENZENE		0.2	****	0.2	****	0.2	****	0.2	****	****	****	****
	PPBC	1.6	****	1.6	****	1.6	****	1.6	****	****	****	****
PARA-XYLENE		2.5	****	3.4	****	1.2	****	2.6	****	****	0.0	****
	PPBC	20.0	****	27.2	****	9.6	****	20.8	****	****	0.0	****
META-XYLENE		6.0	****	4.6	****	3.2	****	2.6	****	2.8	5.0	****
	PPBC	48.0	****	36.8	****	25.6	****	20.8	****	22.4	40.0	****
ORTHO-XYLENE		0.3	****	0.1	****	0.1	****	0.2	****	0.0	0.0	****
	PPBC	2.4	****	0.8	****	0.8	****	1.6	****	0.0	0.0	****
META-ETHYL TOLUENE		1.4	****	0.8	****	1.0	****	0.6	****	1.0	1.0	****
	PPBC	12.6	****	7.2	****	9.0	****	5.4	****	9.0	9.0	****
PAN		0.0	****	0.0	****	0.5	****	1.0	****	1.5	2.0	3.0
	PPBC	0.0	****	0.0	****	1.0	****	2.0	****	3.0	4.0	6.0
FORMALDEHYDE		77.0	****	96.0	****	104	****	127	****	127	146	142
	PPBC	77.0	****	96.0	****	104	****	127	****	127	146	142
3P COL. 2 MIN 40 SEC		42.0	****	60.0	****	62.0	****	102	****	116	144	184
	PPBC	42.0	****	60.0	****	62.0	****	102	****	116	144	184
3P COL., 3 MIN 20 SEC		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	****
3P COL., 4 MIN 5 SEC		0.0	****	0.0	****	2.0	****	4.0	****	8.0	8.0	****
3P COL., 4 MIN 50 SEC		14.0	****	24.0	****	2.0	****	0.4	****	32.0	28.0	****
3P COL., 5 MIN 30 SEC		****	****	****	****	****	****	22.0	****	5.0	40.0	****
3P COL., 6 MIN 50 SEC		0.0	****	2.0	****	1.0	****	1.0	****	2.0	1.0	****

SURROGATE RUN 35-E
GLASS CHAMBER
1973 NOV 7

CLOCK TIME ELAPSED TIME(HR)	1130 0.00	1200 0.50	1230 1.00	1300 1.50	1330 2.00	1400 2.50	1430 3.00	1500 3.50	1530 4.00	1630 5.00	1730 6.00
3P COL., 13 MIN 50 SEC	5.0	****	7.0	****	4.0	****	4.0	****	1.0	1.0	****
3P COL., 21 MIN SEC	0.0	****	0.0	****	0.0	****	2.0	****	2.0	2.0	****
3P COL., 22 MIN 0 SEC	2.0	0.0	3.0	0.0	1.0	****	2.0	****	0.0	0.0	****
3P COL., 32 MIN 0 SEC	10.0	0.0	12.0	0.0	10.0	****	8.0	****	14.0	16.0	****
3P COL., 47 MIN 0 SEC	6.0	0.0	12.0	0.0	16.0	****	23.0	****	28.0	38.0	****

SURROGATE RUN 36-E
LASS CHAMBER
1973 NOV 8

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1690	****	****	****	1650	****	****	****	1690	****	1710
	PPBC	1690	****	****	****	1650	****	****	****	1690	****	1710
ETHENE		17.6	****	****	****	13.6	****	****	****	12.0	****	10.4
	PPBC	35.2	****	****	****	27.2	****	****	****	24.0	****	20.8
ETHANE		36.7	****	****	****	36.0	****	****	****	36.0	****	36.0
	PPBC	73.4	****	****	****	72.0	****	****	****	72.0	****	72.0
ACETYLENE (POROPAK N)		21.9	****	****	****	21.6	****	****	****	20.8	****	20.8
	PPBC	43.8	****	****	****	43.2	****	****	****	41.6	****	41.6
PROPANE		12.8	12.6	12.6	12.6	12.4	12.4	12.4	12.2	12.2	12.2	12.2
	PPBC	38.4	37.8	37.8	37.8	37.2	37.2	37.2	36.6	36.6	36.6	36.6
PROPENE		3.8	2.8	2.2	1.9	1.6	1.5	1.4	1.0	1.0	0.8	0.8
	PPBC	11.4	8.4	6.6	5.7	4.8	4.5	4.2	3.0	3.0	2.4	2.4
ISOBUTANE		0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.0	1.4
	PPBC	2.4	2.0	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	5.6
N-BUTANE		30.8	30.0	29.6	29.2	28.4	28.0	27.2	27.0	****	26.8	26.8
	PPBC	123	120	118	117	114	112	109	108	****	107	107
ACETYLENE (DMS)		21.8	22.2	22.0	22.0	22.0	21.0	21.6	20.6	20.8	21.4	21.4
	PPBC	43.6	44.4	44.0	44.0	44.0	42.0	43.2	41.2	41.6	42.8	42.8
ISOPENTANE		1.0	0.8	0.9	1.2	1.0	1.0	1.4	1.4	1.4	1.6	2.8
	PPBC	5.0	4.0	4.5	6.0	5.0	5.0	7.0	7.0	7.0	8.0	14.0
CIS-2-BUTENE		3.5	1.6	1.0	0.6	0.6	0.4	0.0	0.0	0.0	0.0	0.0
	PPBC	14.0	6.4	4.0	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.3	0.3	0.4	0.4	0.6	0.6	0.6	0.6	0.8
	PPBC	0.0	0.0	1.5	1.5	2.0	2.0	3.0	3.0	3.0	3.0	4.0
2,3-DIMETHYL BUTANE		19.8	18.1	17.5	16.4	16.0	15.0	15.0	14.8	14.4	13.8	13.2
	PPBC	119	109	105	98.4	96.0	90.0	90.0	88.8	86.4	82.8	79.2
2-METHYL BUTENE-2		2.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	11.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 36-E
LASS CHAMBER
1973 NOV 8

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		0.4	****	0.5	****	****	****	****	****	0.4	****	****
	PPBC	0.8	****	1.0	****	****	****	****	****	0.8	****	****
PROPIONALDEHYDE		0.8	****	0.9	****	1.2	****	3.2	****	1.6	2.0	2.4
	PPBC	2.4	****	2.7	****	3.6	****	9.6	****	4.8	6.0	7.2
ACETONE		1.2	****	5.4	****	9.2	****	****	****	9.6	12.4	14.0
	PPBC	3.6	****	16.2	****	27.6	****	****	****	28.8	37.2	42.0
METHYL ETHYL KETONE		****	****	****	****	1.4	****	****	****	****	****	****
	PPBC	****	****	****	****	5.6	****	****	****	****	****	****
TOLUENE		3.2	****	3.1	****	3.0	****	3.6	****	3.2	3.6	3.6
	PPBC	22.4	****	21.7	****	21.0	****	25.2	****	22.4	25.2	25.2
ETHYL BENZENE		0.1	****	0.1	****	0.0	****	0.2	****	0.2	0.2	0.2
	PPBC	0.8	****	0.8	****	0.0	****	1.6	****	1.6	1.6	1.6
PARA-XYLENE		****	****	2.4	****	****	****	5.2	****	3.2	3.4	4.8
	PPBC	****	****	19.2	****	****	****	41.6	****	25.6	27.2	38.4
META-XYLENE		6.2	****	3.8	****	2.6	****	3.0	****	2.8	2.4	2.2
	PPBC	49.6	****	30.4	****	20.8	****	24.0	****	22.4	19.2	17.6
ISOPROPYL BENZENE		0.0	****	0.0	****	0.0	****	0.3	****	0.0	0.0	0.2
	PPBC	0.0	****	0.0	****	0.0	****	2.7	****	0.0	0.0	1.8
ORTHO-XYLENE		0.2	****	0.2	****	0.0	****	0.3	****	0.0	0.0	0.2
	PPBC	1.6	****	1.6	****	0.0	****	2.4	****	0.0	0.0	1.6
META-ETHYL TOLUENE		1.4	****	2.0	****	1.4	****	3.2	****	2.2	0.8	3.0
	PPBC	12.6	****	18.0	****	12.6	****	28.8	****	19.8	7.2	27.0
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.5	1.5	2.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	1.0	3.0	4.0
FORMALDEHYDE		11.0	****	60.0	****	70.0	****	****	****	97.0	104	104
	PPBC	11.0	****	60.0	****	70.0	****	****	****	97.0	104	104
3P COL. 2 MIN 40 SEC		34.0	****	52.0	****	70.0	****	112	****	120	148	180
	PPBC	34.0	****	52.0	****	70.0	****	112	****	120	148	180
3P COL., 2 MIN 30 SEC		****	****	70.0	****	100	****	****	****	102	110	116
3P COL., 3 MIN 40 SEC		72.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	2.0
3P COL., 4 MIN 05 SEC		8.0	****	4.0	****	60.0	****	****	****	20.0	4.0	4.0
3P COL., 4 MIN 40 SEC		14.0	****	16.0	****	32.0	****	****	****	24.0	3.0	****
3P COL., 6 MIN 50 SEC		2.0	****	3.0	****	0.0	****	0.0	****	3.0	4.0	4.0

SURROGATE RUN 36-E
LASS CHAMBER
1973 NOV 8

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 13 MIN 50 SEC	4.0	****	4.0	****	0.0	****	5.0	****	0.0	3.0	3.0
3P COL., 21 MIN 00 SEC	0.0	****	0.0	****	2.0	****	2.0	****	2.0	3.0	2.0
3P COL., 22 MIN 00 SEC	2.0	****	0.0	****	3.0	****	3.0	****	1.0	1.0	2.0
3P COL., 32 MIN 00 SEC	8.0	****	12.0	****	8.0	****	14.0	****	12.0	10.0	16.0
3P COL., 47 MIN 00 SEC	14.0	****	14.0	****	22.0	****	38.0	****	44.0	32.0	****

SURROGATE RUN 37-E
LASS CHAMBER
1973 NOV 9

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1740	****	****	****	1740	****	****	****	1790	****	1840
	PPBC	1740	****	****	****	1740	****	****	****	1790	****	1840
ETHENE		16.8	****	****	****	14.4	****	****	****	11.2	****	10.4
	PPBC	33.6	****	****	****	28.8	****	****	****	22.4	****	20.8
ETHANE		33.6	****	****	****	34.4	****	****	****	36.4	****	34.8
	PPBC	67.2	****	****	****	68.8	****	****	****	72.8	****	69.6
ACETYLENE (POROPAK N)		20.0	****	****	****	20.0	****	****	****	20.0	****	20.8
	PPBC	40.0	****	****	****	40.0	****	****	****	40.0	****	41.6
PROPANE		13.8	13.8	14.0	14.0	14.0	14.0	14.2	14.6	14.8	15.0	15.0
	PPBC	41.4	41.4	42.0	42.0	42.0	42.0	42.6	43.8	44.4	45.0	45.0
PROPENE		4.4	3.8	3.2	2.4	2.4	2.0	1.6	1.5	1.2	1.2	1.0
	PPBC	13.2	11.4	9.6	7.2	7.2	6.0	4.8	4.5	3.6	3.6	3.0
ISOBUTANE		0.8	0.8	0.8	1.0	1.0	1.2	1.4	1.5	1.4	1.6	2.0
	PPBC	3.2	3.2	3.2	4.0	4.0	4.8	5.6	6.0	5.6	6.4	8.0
N-BUTANE		33.0	32.4	32.4	32.0	31.4	30.8	30.8	30.8	29.6	29.6	28.8
	PPBC	132	130	130	128	126	123	123	123	118	118	115
ACETYLENE (DMS)		21.4	21.2	20.8	21.6	21.6	21.0	20.0	21.2	21.2	21.0	21.0
	PPBC	42.8	42.4	41.6	43.2	43.2	42.0	40.0	42.4	42.4	42.0	42.0
TRANS-2-BUTENE		0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		1.0	1.0	1.4	1.6	1.7	2.0	2.4	2.5	2.4	3.1	3.4
	PPBC	5.0	5.0	7.0	8.0	8.5	10.0	12.0	12.5	12.0	15.5	17.0
CIS-2-BUTENE		4.0	2.6	2.0	1.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0
	PPBC	16.0	10.4	8.0	4.0	3.2	0.8	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.6	0.6	0.8	0.8	0.8	0.8	1.0	1.2	1.2	1.2	1.5
	PPBC	3.0	3.0	4.0	4.0	4.0	4.0	5.0	6.0	6.0	6.0	7.5
2-METHYL BUTENE-1		0.8	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	4.0	4.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 37-E
LASS CHAMBER
1973 NOV 9

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2,3-DIMETHYL BUTANE		19.6	19.2	18.8	18.8	18.5	16.5	16.0	15.6	15.2	14.7	13.4
	PPBC	118	115	113	113	111	99.0	96.0	93.6	91.2	88.2	80.4
2-METHYL BUTENE-2		3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	17.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		1.6	****	25.2	****	6.4	****	22.4	****	48.0	12.4	9.2
	PPBC	3.2	****	50.4	****	12.8	****	44.8	****	96.0	24.8	18.4
PROPIONALDEHYDE		3.4	****	1.4	****	1.4	****	3.6	****	4.8	2.0	2.4
	PPBC	10.2	****	4.2	****	4.2	****	10.8	****	14.4	6.0	7.2
ACETONE		14.8	****	21.6	****	7.6	****	21.6	****	44.6	15.0	12.8
	PPBC	44.4	****	64.8	****	22.8	****	64.8	****	134	45.0	38.4
METHYL ETHYL KETONE		****	****	****	****	****	****	0.0	****	****	0.0	0.0
	PPBC	****	****	****	****	****	****	0.0	****	****	0.0	0.0
TOLUENE		4.2	****	4.0	****	3.6	****	3.2	****	3.6	3.6	4.4
	PPBC	29.4	****	28.0	****	25.2	****	22.4	****	25.2	25.2	30.8
ETHYL BENZENE		0.6	****	0.2	****	****	****	0.2	****	****	0.6	0.2
	PPBC	4.8	****	1.6	****	****	****	1.6	****	****	4.8	1.6
PARA-XYLENE		7.6	****	5.4	****	****	****	0.4	****	****	0.0	2.6
	PPBC	60.8	****	43.2	****	****	****	3.2	****	****	0.0	20.8
META-XYLENE		6.4	****	5.2	****	3.8	****	8.4	****	0.0	4.0	2.2
	PPBC	51.2	****	41.6	****	30.4	****	67.2	****	0.0	32.0	17.6
ISOPROPYL BENZENE		0.0	****	0.1	****	0.0	****	0.3	****	0.0	0.0	0.0
	PPBC	0.0	****	0.9	****	0.0	****	2.7	****	0.0	0.0	0.0
ORTHO-XYLENE		0.4	****	0.1	****	0.1	****	0.4	****	0.0	0.0	0.1
	PPBC	3.2	****	0.8	****	0.8	****	3.2	****	0.0	0.0	0.8
META-ETHYL TOLUENE		1.2	****	3.8	****	1.9	****	3.4	****	2.0	2.4	0.8
	PPBC	10.8	****	34.2	****	17.1	****	30.6	****	18.0	21.6	7.2
PAN		0.0	****	0.0	****	1.5	****	2.5	****	3.0	3.5	3.5
	PPBC	0.0	****	0.0	****	3.0	****	5.0	****	6.0	7.0	7.0
FORMALDEHYDE		58.0	****	72.0	****	88.0	****	104	****	104	131	128
	PPBC	58.0	****	72.0	****	88.0	****	104	****	104	131	128
3P COL. 2 MIN 40 SEC		0.0	****	40.0	****	80.0	****	100	****	132	136	162
	PPBC	0.0	****	40.0	****	80.0	****	100	****	132	136	162
3P COL., 2 MIN 30 SEC		116	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 4 MIN 05 SEC		20.0	****	24.0	****	6.0	****	24.0	****	****	12.0	8.0

SURROGATE RUN 37-E
LASS CHAMBER
1973 NOV 9

CLOCK TIME ELAPSED TIME(HR)	1030 0.00	1100 0.50	1130 1.00	1200 1.50	1230 2.00	1300 2.50	1330 3.00	1400 3.50	1430 4.00	1530 5.00	1630 6.00
3P COL., 4 MIN 40 SEC	32.0	****	32.0	****	24.0	****	16.0	****	****	76.0	16.0
3P COL., 5 MIN 30 SEC	0.0	****	24.0	****	22.0	****	0.0	****	80.0	0.0	32.0
3P COL., 6 MIN 50 SEC	4.0	****	8.0	****	2.0	****	5.0	****	6.0	6.0	4.0
3P COL., 13 MIN 50 SEC	19.0	****	6.0	****	3.0	****	6.0	****	2.0	2.0	2.0
3P COL., 21 MIN 00 SEC	0.0	****	2.0	****	2.0	****	2.0	****	2.0	0.0	3.0
3P COL., 22 MIN 00 SEC	6.0	****	5.0	****	2.0	****	4.0	****	2.0	1.0	0.0
3P COL., 32 MIN 20 SEC	12.0	****	20.0	****	12.0	****	18.0	****	11.0	13.0	14.0
3P COL., 45 MIN 30 SEC	8.0	****	6.0	****	****	****	18.0	****	14.0	32.0	****

SURROGATE RUN 38-E
LASS CHAMBER
1973 NOV 13

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1030	1100	1130	1200	1230	1300	1330	1400	1500	1600
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1660	****	****	****	1680	****	****	****	1660	****	1700
	PPBC	1660	****	****	****	1680	****	****	****	1660	****	1700
ETHENE		12.4	****	****	****	10.4	****	****	****	8.8	****	7.6
	PPBC	24.8	****	****	****	20.8	****	****	****	17.6	****	15.2
ETHANE		21.2	****	****	****	21.0	****	****	****	21.0	****	22.0
	PPBC	42.4	****	****	****	42.0	****	****	****	42.0	****	44.0
ACETYLENE (POROPAK N)		15.0	****	****	****	14.0	****	****	****	13.2	****	13.2
	PPBC	30.0	****	****	****	28.0	****	****	****	26.4	****	26.4
PROPANE		3.2	3.4	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.6	3.6
	PPBC	9.6	10.2	9.6	10.2	10.2	10.2	10.2	10.2	10.2	10.8	10.8
PROPENE		3.5	3.2	2.6	2.4	1.8	1.5	1.5	1.2	1.2	1.0	0.6
	PPBC	10.5	9.6	7.8	7.2	5.4	4.5	4.5	3.6	3.6	3.0	1.8
ISOBUTANE		0.2	0.2	0.1	0.1	0.2	0.4	0.1	0.2	0.1	0.3	0.3
	PPBC	0.8	0.8	0.4	0.4	0.8	1.6	0.4	0.8	0.4	1.2	1.2
N-BUTANE		****	29.6	29.2	28.8	27.6	27.6	****	26.8	26.4	25.6	24.8
	PPBC	****	118	117	115	110	110	****	107	106	102	99.2
ACETYLENE (DMS)		15.5	14.8	14.4	14.0	13.6	14.0	14.0	13.4	14.0	13.2	13.2
	PPBC	31.0	29.6	28.8	28.0	27.2	28.0	28.0	26.8	28.0	26.4	26.4
TRANS-2-BUTENE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.5	0.0	0.6	0.4	0.5	0.5	1.0	0.8	0.8	1.2
	PPBC	0.0	2.5	0.0	3.0	2.0	2.5	2.5	5.0	4.0	4.0	6.0
CIS-2-BUTENE		3.5	3.2	1.8	1.6	0.6	0.5	0.4	0.2	0.2	0.0	0.0
	PPBC	14.0	12.8	7.2	6.4	2.4	2.0	1.6	0.8	0.8	0.0	0.0
N-PENTANE		0.0	0.4	0.0	0.2	0.1	0.5	0.1	0.0	0.4	0.4	0.0
	PPBC	0.0	2.0	0.0	1.0	0.5	2.5	0.5	0.0	2.0	2.0	0.0
2,3-DIMETHYL BUTANE		19.4	18.4	18.0	17.4	16.4	15.8	14.8	14.8	14.8	13.6	13.0
	PPBC	116	110	108	104	98.4	94.8	88.8	88.8	88.8	81.6	78.0

SURROGATE RUN 38-E
LASS CHAMBER
1973 NOV 13

CLOCK TIME / ELAPSED TIME(HR)		1000 0.00	1030 0.50	1100 1.00	1130 1.50	1200 2.00	1230 2.50	1300 3.00	1330 3.50	1400 4.00	1500 5.00	1600 6.00
2-METHYL BUTENE-2		3.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	15.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		5.2	****	6.8	****	8.0	****	7.6	****	16.8	14.0	10.0
	PPBC	10.4	****	13.6	****	16.0	****	15.2	****	33.6	28.0	20.0
PROPIONALDEHYDE		1.2	****	1.6	****	0.8	****	1.0	****	2.0	2.0	2.4
	PPBC	3.6	****	4.8	****	2.4	****	3.0	****	6.0	6.0	7.2
ACETONE		12.8	****	11.2	****	7.0	****	7.6	****	****	19.2	15.6
	PPBC	38.4	****	33.6	****	21.0	****	22.8	****	****	57.6	46.8
METHYL ETHYL KETONE		0.8	****	2.0	****	0.8	****	0.8	****	5.2	5.6	2.4
	PPBC	3.2	****	8.0	****	3.2	****	3.2	****	20.8	22.4	9.6
TOLUENE		3.2	****	3.6	****	3.2	****	3.2	****	3.2	3.2	3.6
	PPBC	22.4	****	25.2	****	22.4	****	22.4	****	22.4	22.4	25.2
ETHYL BENZENE		0.4	****	0.4	****	0.0	****	0.2	****	0.4	0.2	0.1
	PPBC	3.2	****	3.2	****	0.0	****	1.6	****	3.2	1.6	0.8
PARA-XYLENE		2.8	****	5.0	****	3.0	****	2.4	****	5.0	5.0	0.0
	PPBC	22.4	****	40.0	****	24.0	****	19.2	****	40.0	40.0	0.0
META-XYLENE		5.6	****	5.2	****	3.2	****	3.0	****	4.0	3.0	4.0
	PPBC	44.8	****	41.6	****	25.6	****	24.0	****	32.0	24.0	32.0
ISOPROPYL BENZENE		0.2	****	0.1	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	1.8	****	0.9	****	0.0	****	0.0	****	0.0	0.0	0.0
ORTHO-XYLENE		0.4	****	0.1	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	3.2	****	0.8	****	0.0	****	0.0	****	0.0	0.0	0.0
META-ETHYL TOLUENE		1.6	****	1.2	****	2.0	****	1.6	****	3.0	3.0	4.0
	PPBC	14.4	****	10.8	****	18.0	****	14.4	****	27.0	27.0	36.0
PAN		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
FORMALDEHYDE		****	****	73.0	****	89.0	****	116	****	117	146	167
	PPBC	****	****	73.0	****	89.0	****	116	****	117	146	167
3P COL. 2 MIN 40 SEC		12.0	****	52.0	****	68.0	****	88.0	****	120	144	196
	PPBC	12.0	****	52.0	****	68.0	****	88.0	****	120	144	196
3P COL., 3 MIN 50 SEC		****	****	0.0	****	16.0	****	****	****	12.0	2.0	****
3P COL., 4 MIN 05 SEC		14.0	****	4.0	****	2.0	****	6.0	****	8.0	20.0	16.0
3P COL., 5 MIN 20 SEC		4.0	****	4.0	****	4.0	****	14.0	****	44.0	36.0	0.0
3P COL., 6 MIN 40 SEC		****	****	4.0	****	12.0	****	4.0	****	2.0	2.0	3.0

SURROGATE RUN 38-E
LASS CHAMBER
1973 NOV 13

CLOCK TIME ELAPSED TIME(HR)	1000 0.00	1030 0.50	1100 1.00	1130 1.50	1200 2.00	1230 2.50	1300 3.00	1330 3.50	1400 4.00	1500 5.00	1600 6.00
3P COL., 13 MIN 40 SEC	4.0	****	2.0	****	2.0	****	2.0	****	4.0	2.0	2.0
3P COL., 21 MIN 00 SEC	0.0	****	0.0	****	0.0	****	0.0	****	2.0	2.0	2.0
3P COL., 22 MIN 00 SEC	2.0	****	4.0	****	8.0	****	****	****	4.0	4.0	2.0
3P COL., 31 MIN 40 SEC	8.0	****	14.0	****	6.0	****	10.0	****	16.0	16.0	18.0
3P COL., 45 MIN 30 SEC	****	****	****	****	****	****	4.0	****	8.0	8.0	10.0

SURROGATE RUN 39-E
LASS CHAMBER
1973 NOV 14

1315 -- SUSPECT POOR SAMPLE OR LEAKY SYRINGE
1415 -- SAMPLE LOST DUE TO PEN PROBLEM
NO PAN UNTIL 1545 DUE TO X64 ATTENUATION

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1740	****	****	****	1730	****	****	****	1750	****	1780
	PPBC	1740	****	****	****	1730	****	****	****	1750	****	1780
ETHENE		18.8	****	****	****	14.8	****	****	****	12.8	****	10.4
	PPBC	37.6	****	****	****	29.6	****	****	****	25.6	****	20.8
ETHANE		28.8	****	****	****	28.0	****	****	****	28.2	****	28.0
	PPBC	57.6	****	****	****	56.0	****	****	****	56.4	****	56.0
ACETYLENE (POROPAK N)		21.6	****	****	****	20.0	****	****	****	19.0	****	18.0
	PPBC	43.2	****	****	****	40.0	****	****	****	38.0	****	36.0
PROPANE		4.2	4.2	4.4	4.4	4.2	3.2	4.2	****	4.2	4.4	4.6
	PPBC	12.6	12.6	13.2	13.2	12.6	9.6	12.6	****	12.6	13.2	13.8
PROPENE		5.0	4.4	3.6	3.2	2.6	1.8	2.2	****	1.6	1.4	1.0
	PPBC	15.0	13.2	10.8	9.6	7.8	5.4	6.6	****	4.8	4.2	3.0
ISOBUTANE		1.8	1.5	1.6	1.5	1.6	2.8	1.6	****	1.8	2.0	2.0
	PPBC	7.2	6.0	6.4	6.0	6.4	11.2	6.4	****	7.2	8.0	8.0
N-BUTANE		42.4	42.4	42.0	41.6	40.0	30.0	39.2	****	37.6	36.2	36.8
	PPBC	170	170	168	166	160	120	157	****	150	145	147
ACETYLENE (DMS)		20.8	21.2	20.8	21.0	20.8	14.4	20.0	****	19.2	18.5	19.2
	PPBC	41.6	42.4	41.6	42.0	41.6	28.8	40.0	****	38.4	37.0	38.4
TRANS-2-BUTENE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0
	PPBC	0.8	0.0	0.0	0.0	0.0	0.0	0.0	****	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.5	0.4	0.4	0.4	0.4	****	0.0	0.0	0.6
	PPBC	0.0	0.0	2.5	2.0	2.0	2.0	2.0	****	0.0	0.0	3.0
CIS-2-BUTENE		4.8	3.8	2.6	1.2	1.2	0.6	0.5	****	0.5	0.5	0.0
	PPBC	19.2	15.2	10.4	4.8	4.8	2.4	2.0	****	2.0	2.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.2	0.2	****	0.0	0.0	0.4
	PPBC	0.0	0.0	0.0	0.0	0.0	1.0	1.0	****	0.0	0.0	2.0
2,3-DIMETHYL BUTANE		25.4	24.2	23.2	22.8	21.0	21.4	20.4	20.0	20.0	18.2	17.0
	PPBC	152	145	139	137	126	128	122	120	120	109	102

SURROGATE RUN 39-E
LASS CHAMBER
1973 NOV 14

CLOCK TIME		1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2-METHYL BUTENE-2		4.0	3.0	1.5	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	20.0	15.0	7.5	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		****	****	5.4	****	9.4	****	14.0	****	9.6	11.2	14.2
	PPBC	****	****	10.8	****	18.8	****	28.0	****	19.2	22.4	28.4
PROPIONALDEHYDE		1.2	****	0.8	****	1.2	****	1.2	****	1.6	1.6	2.4
	PPBC	3.6	****	2.4	****	3.6	****	3.6	****	4.8	4.8	7.2
ACETONE		4.5	****	6.4	****	11.0	****	16.0	****	11.2	14.4	16.8
	PPBC	13.5	****	19.2	****	33.0	****	48.0	****	33.6	43.2	50.4
METHYL ETHYL KETONE		1.2	****	1.0	****	1.2	****	4.0	****	1.6	****	10.4
	PPBC	4.8	****	4.0	****	4.8	****	16.0	****	6.4	****	41.6
TOLUENE		4.0	****	3.6	****	3.6	****	3.6	****	4.8	3.2	3.6
	PPBC	28.0	****	25.2	****	25.2	****	25.2	****	33.6	22.4	25.2
ETHYL BENZENE		0.1	****	0.1	****	0.0	****	****	****	0.2	0.1	****
	PPBC	0.8	****	0.8	****	0.0	****	****	****	1.6	0.8	****
PARA-XYLENE		5.2	****	3.4	****	3.0	****	****	****	****	1.6	****
	PPBC	41.6	****	27.2	****	24.0	****	****	****	****	12.8	****
META-XYLENE		6.6	****	5.5	****	5.0	****	4.4	****	****	3.0	2.8
	PPBC	52.8	****	44.0	****	40.0	****	35.2	****	****	24.0	22.4
META-ETHYL TOLUENE		3.0	****	2.4	****	2.0	****	2.4	****	2.8	1.6	2.4
	PPBC	27.0	****	21.6	****	18.0	****	21.6	****	25.2	14.4	21.6
PAN		****	****	****	****	****	****	****	****	****	2.5	3.0
	PPBC	****	****	****	****	****	****	****	****	****	5.0	6.0
FORMALDEHYDE		38.0	****	81.0	****	113	****	119	****	146	153	207
	PPBC	38.0	****	81.0	****	113	****	119	****	146	153	207
3P COL. 2 MIN 40 SEC		36.0	****	50.0	****	76.0	****	76.0	****	144	160	184
	PPBC	36.0	****	50.0	****	76.0	****	76.0	****	144	160	184
3P COL., 4 MIN 05 SEC		2.0	****	4.0	****	2.0	****	2.0	****	8.0	4.0	2.0
3P COL., 5 MIN 30 SEC		0.0	****	0.0	****	12.0	****	24.0	****	0.0	4.0	40.0
3P COL., 6 MIN 50 SEC		2.0	****	1.0	****	0.0	****	2.0	****	4.0	2.0	2.0
3P COL., 10 MIN 40 SEC		16.0	****	0.0	****	0.0	****	0.0	****	12.0	0.0	0.0
3P COL., 13 MIN 50 SEC		2.0	****	2.0	****	1.0	****	3.0	****	0.0	0.0	4.0
3P COL., 21 MIN 00 SEC		0.0	****	0.0	****	0.0	****	0.0	****	4.0	2.0	4.0
3P COL., 22 MIN 00 SEC		7.0	****	4.0	****	4.0	****	4.0	****	6.0	2.0	4.0

SURROGATE RUN 39-E
LASS CHAMBER
1973 NOV 14

CLOCK TIME	1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 32 MIN 50 SEC	14.0	0.0	11.0	0.0	10.0	0.0	10.0	0.0	14.0	12.0	12.0
3P COL., 46 MIN 00 SEC	0.0	0.0	5.0	0.0	6.0	0.0	6.0	0.0	13.0	14.0	14.0

SURROGATE RUN 40-E
GLASS CHAMBER
1973 NOV 15

INTERFERENCE WITH M-XYLENE AT 1030; ESTIMATE 6.6 PPB

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1700	****	****	****	1700	****	****	****	1710	0.0	1730
	PPBC	1700	****	****	****	1700	****	****	****	1710	0.0	1730
ETHENE		20.8	****	****	****	14.0	****	****	****	14.0	0.0	8.0
	PPBC	41.6	****	****	****	28.0	****	****	****	28.0	0.0	16.0
ETHANE		30.8	****	****	****	28.8	****	****	****	28.8	0.0	28.0
	PPBC	61.6	****	****	****	57.6	****	****	****	57.6	0.0	56.0
ACETYLENE (POROPAK N)		26.4	****	****	****	22.4	****	****	****	22.4	0.0	20.0
	PPBC	52.8	****	****	****	44.8	****	****	****	44.8	0.0	40.0
PROPANE		4.3	4.2	4.2	4.2	4.2	4.2	4.4	4.4	4.4	4.5	4.6
	PPBC	12.9	12.6	12.6	12.6	12.6	12.6	13.2	13.2	13.2	13.5	13.8
PROPENE		5.0	3.9	2.8	2.2	1.8	1.7	1.0	0.8	0.6	0.4	0.4
	PPBC	15.0	11.7	8.4	6.6	5.4	5.1	3.0	2.4	1.8	1.2	1.2
ISOBUTANE		0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.5
	PPBC	1.2	1.2	0.8	0.8	1.2	1.6	1.6	1.6	1.6	2.0	2.0
N-BUTANE		42.4	41.6	40.8	38.2	37.6	37.2	36.0	****	****	33.6	32.0
	PPBC	170	166	163	153	150	149	144	****	****	134	128
ACETYLENE (DMS)		24.8	24.8	23.2	24.0	22.4	22.0	22.5	23.0	22.4	21.6	21.6
	PPBC	49.6	49.6	46.4	48.0	44.8	44.0	45.0	46.0	44.8	43.2	43.2
ISOPENTANE		0.0	0.0	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.6	0.8
	PPBC	0.0	0.0	2.5	2.0	2.0	2.0	2.5	2.0	2.5	3.0	4.0
CIS-2-BUTENE		5.0	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	20.0	11.2	5.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.4	0.0	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.0	2.0	0.0	2.5
2,3-DIMETHYL BUTANE		28.4	25.8	24.4	22.6	21.0	20.2	19.2	18.8	18.0	16.4	0.0
	PPBC	170	155	146	136	126	121	115	113	108	98.4	0.0
2-METHYL BUTENE-2		5.0	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	25.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 40-E
GLASS CHAMBER
1973 NOV 15

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		0.4	****	5.8	****	10.6	****	11.0	****	8.4	10.8	10.8
	PPBC	0.8	****	11.6	****	21.2	****	22.0	****	16.8	21.6	21.6
PROPIONALDEHYDE		0.4	****	0.8	****	1.8	****	2.0	****	2.4	2.4	2.8
	PPBC	1.2	****	2.4	****	5.4	****	6.0	****	7.2	7.2	8.4
ACETONE		1.2	****	5.2	****	6.0	****	11.2	****	20.0	21.6	23.2
	PPBC	3.6	****	15.6	****	18.0	****	33.6	****	60.0	64.8	69.6
BENZENE		0.4	****	0.0	****	1.0	****	0.0	****	0.0	0.0	0.0
	PPBC	2.4	****	0.0	****	6.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.4	****	0.8	****	1.8	****	4.6	****	2.4	7.4	****
	PPBC	1.6	****	3.2	****	7.2	****	18.4	****	9.6	29.6	****
TOLUENE		3.4	****	3.8	****	3.6	****	3.4	****	3.4	3.2	3.4
	PPBC	23.8	****	26.6	****	25.2	****	23.8	****	23.8	22.4	23.8
ETHYL BENZENE		0.1	****	0.2	****	0.2	****	****	****	****	0.2	0.2
	PPBC	0.8	****	1.6	****	1.6	****	****	****	****	1.6	1.6
PARA-XYLENE		0.2	****	2.0	****	3.4	****	****	****	****	****	4.2
	PPBC	1.6	****	16.0	****	27.2	****	****	****	****	****	33.6
META-XYLENE		****	****	5.4	****	4.8	****	3.4	****	2.2	****	2.5
	PPBC	****	****	43.2	****	38.4	****	27.2	****	17.6	****	20.0
META-ETHYL TOLUENE		0.8	****	1.6	****	1.8	****	1.6	****	2.2	2.2	2.6
	PPBC	7.2	****	14.4	****	16.2	****	14.4	****	19.8	19.8	23.4
PAN		0.0	****	0.0	****	3.5	****	5.0	****	7.0	0.0	8.0
	PPBC	0.0	****	0.0	****	7.0	****	10.0	****	14.0	0.0	16.0
FORMALDEHYDE		46.0	****	60.0	****	85.0	****	105	****	114	131	130
	PPBC	46.0	****	60.0	****	85.0	****	105	****	114	131	130
3P COL., 2 MIN 40 SEC		20.0	****	44.0	****	74.0	****	94.0	****	128	148	176
3P COL., 5 MIN 10 SEC		2.0	****	0.0	****	14.0	****	0.0	****	8.0	0.0	0.0
3P COL., 5 MIN 30 SEC		0.0	****	0.0	****	14.0	****	28.0	****	16.0	0.0	30.0
3P COL., 6 MIN 50 SEC		0.0	****	2.0	****	0.0	****	0.0	****	4.0	0.0	0.0
3P COL., 11 MIN 10 SEC		44.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 13 MIN 50 SEC		4.0	****	2.0	****	5.0	****	0.5	****	8.0	3.0	4.0
3P COL., 21 MIN 00 SEC		0.0	****	0.0	****	1.0	****	2.0	****	2.0	2.0	2.0
3P COL., 22 MIN 00 SEC		6.0	****	4.0	****	5.0	****	4.0	****	3.0	2.0	3.0

SURROGATE RUN 40-E
GLASS CHAMBER
1973 NOV 15.

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
3P COL., 33 MIN 00 SEC	12.0	****	11.0	****	11.0	****	11.0	****	10.0	15.0	14.0
3P COL., 46 MIN 00 SEC	6.0	****	5.0	****	10.0	****	13.0	****	16.0	26.0	22.0
TOTAL HC PPBC	2357.5	****	****	****	2386.4	****	****	****	2252.3	****	2343.1
TOTAL NON-METHANE HC	657.5	413.5	585.5	360.4	686.4	336.8	584.9	179.0	542.3	593.7	613.1
TOTAL SURROGATE	591.1	412.3	457.4	357.6	488.4	331.7	371.4	174.4	294.8	313.1	300.4

SURROGATE RUN 41-E
GLASS CHAMBER
1973 NOV 27

INTERFERENCE WITH M-XYLENE AT 0945; ESTIMATE 6.6 PPB
PAN NOT RECORDED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1680	****	****	****	1680	****	****	****	1670	****	1690
	PPBC	1680	****	****	****	1680	****	****	****	1670	****	1690
ETHENE		12.4	****	****	****	14.4	****	****	****	12.4	****	10.4
	PPBC	24.8	****	****	****	28.8	****	****	****	24.8	****	20.8
ETHANE		28.0	****	****	****	28.0	****	****	****	27.2	****	28.0
	PPBC	56.0	****	****	****	56.0	****	****	****	54.4	****	56.0
ACETYLENE (POROPAK N)		24.8	****	****	****	24.0	****	****	****	22.4	****	21.6
	PPBC	49.6	****	****	****	48.0	****	****	****	44.8	****	43.2
PROPANE		3.9	3.8	3.7	3.8	3.8	3.7	3.6	3.7	3.6	3.7	3.8
	PPBC	11.7	11.4	11.1	11.4	11.4	11.1	10.8	11.1	10.8	11.1	11.4
PROPENE		4.7	3.5	2.6	2.0	1.6	1.2	1.0	0.8	0.6	0.4	0.3
	PPBC	14.1	10.5	7.8	6.0	4.8	3.6	3.0	2.4	1.8	1.2	0.9
ISOBUTANE		0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3
	PPBC	0.4	0.4	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.2
N-BUTANE		****	39.2	37.6	36.8	****	34.4	33.6	33.6	32.0	31.2	30.8
	PPBC	****	157	150	147	****	138	134	134	128	125	123
ACETYLENE (DMS)		24.0	23.6	22.8	22.8	23.4	22.4	22.6	22.4	21.6	21.8	20.8
	PPBC	48.0	47.2	45.6	45.6	46.8	44.8	45.2	44.8	43.2	43.6	41.6
TRANS-2-BUTENE		0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.2	0.4	0.6	0.5	0.6	0.5	0.4	0.5	0.5
	PPBC	0.0	0.0	1.0	2.0	3.0	2.5	3.0	2.5	2.0	2.5	2.5
CIS-2-BUTENE		4.3	2.6	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	17.2	10.4	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
2,3-DIMETHYL BUTANE		25.6	25.0	23.4	22.0	21.6	20.0	19.6	18.6	17.0	16.0	15.0
	PPBC	154	150	140	132	130	120	118	112	102	96.0	90.0

SURROGATE RUN 41-E
GLASS CHAMBER
1973 NOV 27

CLOCK TIME		945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
2-METHYL BUTENE-2		5.0	2.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	25.0	11.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		0.6	****	16.0	****	18.8	****	18.8	****	17.6	24.0	16.0
	PPBC	1.2	****	32.0	****	37.6	****	37.6	****	35.2	48.0	32.0
PROPIONALDEHYDE		0.8	****	1.4	****	2.0	****	2.2	****	2.4	2.4	2.4
	PPBC	2.4	****	4.2	****	6.0	****	6.6	****	7.2	7.2	7.2
ACETONE		1.5	****	14.0	****	24.0	****	269	0.0	32.8	41.6	42.4
	PPBC	4.5	****	42.0	****	72.0	****	807	0.0	98.4	125	127
BENZENE		0.5	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	3.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.6	****	1.2	****	2.0	****	2.1	****	3.2	****	4.8
	PPBC	2.4	****	4.8	****	8.0	****	8.4	****	12.8	****	19.2
TOLUENE		4.0	****	3.9	****	3.2	****	3.0	****	2.8	3.0	3.0
	PPBC	28.0	****	27.3	****	22.4	****	21.0	****	19.6	21.0	21.0
ETHYL BENZENE		0.2	****	2.8	****	3.0	****	2.3	****	2.1	3.4	3.6
	PPBC	1.6	****	22.4	****	24.0	****	18.4	****	16.8	27.2	28.8
PARA-XYLENE		0.2	****	1.2	****	****	****	****	****	****	0.4	****
	PPBC	1.6	****	9.6	****	****	****	****	****	****	3.2	****
META-XYLENE		****	****	5.0	****	3.6	****	2.6	****	2.4	2.0	1.4
	PPBC	****	****	40.0	****	28.8	****	20.8	****	19.2	16.0	11.2
N-PROPYL BENZENE		1.2	****	0.6	****	0.5	****	0.2	****	0.4	0.4	0.4
	PPBC	10.8	****	5.4	****	4.5	****	1.8	****	3.6	3.6	3.6
META-ETHYL TOLUENE		2.5	****	1.6	****	2.0	****	1.5	****	2.4	2.5	2.5
	PPBC	22.5	****	14.4	****	18.0	****	13.5	****	21.6	22.5	22.5
FORMALDEHYDE		33.0	****	52.0	****	91.0	****	95.0	****	115	143	162
	PPBC	33.0	****	52.0	****	91.0	****	95.0	****	115	143	162
3P COL., 2 MIN 40 SEC		15.0	****	42.0	****	64.0	****	84.0	****	104	116	160
3P COL., 3 MIN 20 SEC		0.0	****	0.0	****	0.0	****	16.0	****	24.0	****	32.0
3P COL., 5 MIN 00 SEC		0.0	****	8.0	****	14.0	****	28.0	****	24.0	****	****
3P COL., 5 MIN 30 SEC		0.0	****	20.0	****	18.0	****	10.0	****	28.0	28.0	32.0
3P COL., 7 MIN 00 SEC		0.0	****	1.0	****	2.0	****	2.0	****	2.0	2.0	2.0
3P COL., 11 MIN 40 SEC		60.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 21 MIN 00 SEC		2.0	****	1.0	****	1.0	****	1.0	****	1.0	2.0	4.0

SURROGATE RUN 41-E
GLASS CHAMBER
1973 NOV 27

CLOCK TIME	945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
3P COL., 23 MIN 00 SEC	10.0	****	5.0	****	3.0	****	2.0	****	2.0	3.0	2.0
3P COL., 35 MIN 00 SEC	14.0	****	9.0	****	14.0	****	10.0	****	10.0	16.0	13.0
3P COL., 49 MIN 00 SEC	7.0	****	4.0	****	7.0	****	9.0	****	12.0	14.0	16.0
TOTAL HC PPBC	2143.4	****	****	****	2274.1	****	****	****	2388.5	****	2473.1
TOTAL NON-METHANE HC	463.4	397.7	619.4	345.8	594.1	319.6	1344.9	307.6	718.5	696.5	783.1
TOTAL SURROGATE	380.0	397.3	431.6	343.8	330.0	317.1	352.8	304.3	404.6	313.7	376.9

SURROGATE RUN 42-E
GLASS CHAMBER
1973 NOV 29

LIGHTS ON LESS THAN 15 MIN AFTER SURROGATE INJECTION
1215 AND 1245 HYDROCARBON SAMPLES LOST DUE TO VALVE PROBLEMS
INTERFERENCE WITH M-XYLENE AT 0915

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		915	945	1015	1045	1115	1145	1215	1245	1315	1415	1515
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1600	****	****	****	1630	****	****	****	1630	****	1630
	PPBC	1600	****	****	****	1630	****	****	****	1630	****	1630
ETHENE		8.6	****	****	****	7.2	****	****	****	6.0	****	4.8
	PPBC	17.2	****	****	****	14.4	****	****	****	12.0	****	9.6
ETHANE		14.4	****	****	****	17.6	****	****	****	16.4	****	17.2
	PPBC	28.8	****	****	****	35.2	****	****	****	32.8	****	34.4
*ACETYLENE (PORAPAK N)		10.8	****	****	****	10.9	****	****	****	10.6	****	10.0
	PPBC	21.6	****	****	****	21.8	****	****	****	21.2	****	20.0
PROPANE		2.2	2.3	2.4	2.5	2.6	2.9	****	****	2.7	2.9	3.0
	PPBC	6.6	6.9	7.2	7.5	7.8	8.7	****	****	8.1	8.7	9.0
PROPENE		2.3	2.0	1.4	1.2	1.0	0.7	****	****	0.4	0.3	0.2
	PPBC	6.9	6.0	4.2	3.6	3.0	2.1	****	****	1.2	0.9	0.6
ISOBUTANE		0.1	0.3	0.3	0.3	0.3	0.4	****	****	0.5	0.6	0.6
	PPBC	0.4	1.2	1.2	1.2	1.2	1.6	****	****	2.0	2.4	2.4
N-BUTANE		19.6	19.8	19.2	18.8	18.0	****	****	****	16.8	16.0	15.6
	PPBC	78.4	79.2	76.8	75.2	72.0	****	****	****	67.2	64.0	62.4
ACETYLENE (DMS)		10.0	10.0	10.2	10.0	10.0	9.6	****	****	9.8	9.7	9.8
	PPBC	20.0	20.0	20.4	20.0	20.0	19.2	****	****	19.6	19.4	19.6
ISOPENTANE		0.2	0.4	0.7	0.9	1.0	1.0	****	****	0.9	1.0	1.3
	PPBC	1.0	2.0	3.5	4.5	5.0	5.0	****	****	4.5	5.0	6.5
CIS-2-BUTENE		2.4	1.2	0.8	0.6	0.3	0.2	****	****	0.0	0.0	0.0
	PPBC	9.6	4.8	3.2	2.4	1.2	0.8	****	****	0.0	0.0	0.0
N-PENTANE		0.0	0.3	0.3	0.2	0.2	0.3	****	****	0.2	0.4	0.5
	PPBC	0.0	1.5	1.5	1.0	1.0	1.5	****	****	1.0	2.0	2.5
2,3-DIMETHYL BUTANE		11.6	11.0	10.0	9.2	9.0	8.3	****	****	6.4	6.1	5.9
	PPBC	69.6	66.0	60.0	55.2	54.0	49.8	****	****	38.4	36.6	35.4
2-METHYL BUTENE-2		1.2	0.2	0.0	0.0	0.0	0.0	****	****	0.0	0.0	0.0
	PPBC	6.0	1.0	0.0	0.0	0.0	0.0	****	****	0.0	0.0	0.0

SURROGATE RUN 42-E
GLASS CHAMBER
1973 NOV 29

CLOCK TIME		915	945	1015	1045	1115	1145	1215	1245	1315	1415	1515
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		0.5	****	8.6	****	11.6	****	13.6	****	10.0	15.2	9.6
	PPBC	1.0	****	17.2	****	23.2	****	27.2	****	20.0	30.4	19.2
PROPIONALDEHYDE		0.8	****	2.4	****	2.2	****	2.0	****	1.6	2.0	2.0
	PPBC	2.4	****	7.2	****	6.6	****	6.0	****	4.8	6.0	6.0
ACETONE		1.5	****	10.5	****	17.0	****	21.0	****	22.0	28.2	29.6
	PPBC	4.5	****	31.5	****	51.0	****	63.0	****	66.0	84.6	88.8
BENZENE		0.6	****	0.0	****	0.1	****	0.1	****	0.0	0.1	0.1
	PPBC	3.6	****	0.0	****	0.6	****	0.6	****	0.0	0.6	0.6
METHYL ETHYL KETONE		0.5	****	0.6	****	1.0	****	1.0	****	2.0	****	2.4
	PPBC	2.0	****	2.4	****	4.0	****	4.0	****	8.0	****	9.6
TOLUENE		2.1	****	1.7	****	1.6	****	1.6	****	1.6	1.4	1.4
	PPBC	14.7	****	11.9	****	11.2	****	11.2	****	11.2	9.8	9.8
ETHYL BENZENE		0.1	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.8	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
PARA-XYLENE		0.1	****	3.0	****	3.0	****	3.0	****	2.8	3.4	3.4
	PPBC	0.8	****	24.0	****	24.0	****	24.0	****	22.4	27.2	27.2
META-XYLENE		6.5	****	0.0	****	0.2	****	0.3	****	0.8	0.8	0.8
	PPBC	52.0	****	0.0	****	1.6	****	2.4	****	6.4	6.4	6.4
ORTHO-XYLENE		0.1	****	0.1	****	0.1	****	0.0	****	0.1	0.1	0.1
	PPBC	0.8	****	0.8	****	0.8	****	0.0	****	0.8	0.8	0.8
N-PROPYL BENZENE		0.7	****	0.4	****	0.4	****	0.4	****	0.4	0.4	0.4
	PPBC	6.3	****	3.6	****	3.6	****	3.6	****	3.6	3.6	3.6
META-ETHYL TOLUENE		1.8	****	1.2	****	1.5	****	1.6	****	1.6	1.8	2.0
	PPBC	16.2	****	10.8	****	13.5	****	14.4	****	14.4	16.2	18.0
FORMALDEHYDE		11.0	****	23.0	****	58.0	****	67.0	****	70.0	77.0	51.0
	PPBC	11.0	****	23.0	****	58.0	****	67.0	****	70.0	77.0	51.0
3P COL., 2 MIN 40 SEC		22.0	****	51.0	****	84.0	****	122	****	180	188	240
3P COL., 4 MIN 5 SEC		0.0	****	5.0	****	4.0	****	4.0	****	4.0	4.0	4.0
3P COL., 5 MIN 00 SEC		0.0	****	0.0	****	0.0	****	28.0	****	****	****	****
3P COL., 5 MIN 30 SEC		0.0	****	15.0	****	20.0	****	18.0	****	****	12.0	16.0
3P COL., 7 MIN 00 SEC		1.0	****	0.0	****	2.0	****	2.0	****	2.0	2.0	2.0
3P COL., 11 MIN 30 SEC		24.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 21 MIN 00 SEC		0.0	****	0.0	****	0.0	****	0.0	****	2.0	2.0	3.0

SURROGATE RUN 42-E
GLASS CHAMBER
1973 NOV 29

CLOCK TIME	915	945	1015	1045	1115	1145	1215	1245	1315	1415	1515
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
3P COL., 23 MIN 00 SEC	7.0	****	6.0	****	5.0	****	4.0	****	4.0	4.0	4.0
3P COL., 35 MIN 00 SEC	7.0	****	8.0	****	9.0	****	12.0	****	9.0	10.0	12.0
3P COL., 49 MIN 00 SEC	7.0	****	5.0	****	4.0	****	4.0	****	9.0	16.0	18.0
TOTAL HC PPBC	1961.4	****	****	****	2043.8	****	****	****	2045.2	****	2053.6
TOTAL NON-METHANE HC	361.4	188.6	310.4	170.6	413.8	88.7	223.4	0.0	415.2	401.6	423.6
TOTAL SURROGATE	310.6	183.9	183.7	163.9	221.3	80.6	13.6	****	197.7	145.8	187.4

SURROGATE RUN 43-E
GLASS CHAMBER
1973 NOV 30

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)										
METHANE		1670	****	****	****	1670	****	****	****	1650	****	1670
	PPBC	1670	****	****	****	1670	****	****	****	1650	****	1670
ETHENE		10.4	****	****	****	8.4	****	****	****	7.4	****	6.2
	PPBC	20.8	****	****	****	16.8	****	****	****	14.8	****	12.4
ETHANE		15.6	****	****	****	15.2	****	****	****	14.8	****	15.2
	PPBC	31.2	****	****	****	30.4	****	****	****	29.6	****	30.4
ACETYLENE (POROPAK N)		14.0	****	****	****	13.6	****	****	****	13.2	****	13.2
	PPBC	28.0	****	****	****	27.2	****	****	****	26.4	****	26.4
PROPANE		2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.8	2.8
	PPBC	7.2	7.2	7.5	7.5	7.5	7.5	7.5	7.8	7.5	8.4	8.4
PROPENE		2.6	2.1	1.7	1.4	1.2	1.0	0.9	0.7	0.5	0.6	0.4
	PPBC	7.8	6.3	5.1	4.2	3.6	3.0	2.7	2.1	1.5	1.8	1.2
ISOBUTANE		0.2	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.6	0.7
	PPBC	0.8	0.4	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.4	2.8
N-BUTANE		21.8	21.2	20.8	20.4	20.0	19.8	19.2	19.0	18.8	18.4	17.8
	PPBC	87.2	84.8	83.2	81.6	80.0	79.2	76.8	76.0	75.2	73.6	71.2
ACETYLENE (DMS)		13.9	13.0	13.4	13.2	13.2	13.0	12.8	13.2	12.8	13.0	13.2
	PPBC	27.8	26.0	26.8	26.4	26.4	26.0	25.6	26.4	25.6	26.0	26.4
ISOPENTANE		0.0	0.2	0.5	0.5	0.8	0.6	0.9	1.0	1.0	1.2	1.4
	PPBC	0.0	1.0	2.5	2.5	4.0	3.0	4.5	5.0	5.0	6.0	7.0
CIS-2-BUTENE		2.5	1.6	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	10.0	6.4	4.0	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.4	0.4	0.6
	PPBC	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.5	2.0	2.0	3.0
2,3-DIMETHYL BUTANE		14.4	13.4	12.2	12.0	11.0	10.6	10.4	9.8	9.6	8.5	8.0
	PPBC	86.4	80.4	73.2	72.0	66.0	63.6	62.4	58.8	57.6	51.0	48.0
2-METHYL BUTENE-2		1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 43-E
GLASS CHAMBER
1973 NOV 30

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		3.0	****	9.6	****	11.6	****	11.6	****	21.0	18.4	13.2
	PPBC	6.0	****	19.2	****	23.2	****	23.2	****	42.0	36.8	26.4
PROPIONALDEHYDE		0.5	****	0.8	****	1.0	****	1.0	****	1.6	2.0	2.4
	PPBC	1.5	****	2.4	****	3.0	****	3.0	****	4.8	6.0	7.2
ACETONE		5.5	****	11.2	****	18.0	****	17.0	****	24.0	22.8	26.8
	PPBC	16.5	****	33.6	****	54.0	****	51.0	****	72.0	68.4	80.4
BENZENE		0.1	****	0.1	****	0.1	****	0.0	****	0.1	0.1	0.0
	PPBC	0.6	****	0.6	****	0.6	****	0.0	****	0.6	0.6	0.0
METHYL ETHYL KETONE		0.5	****	0.4	****	1.2	****	1.0	****	2.0	****	2.4
	PPBC	2.0	****	1.6	****	4.8	****	4.0	****	8.0	****	9.6
TOLUENE		2.3	****	2.4	****	2.4	****	2.4	****	2.5	2.4	2.2
	PPBC	16.1	****	16.8	****	16.8	****	16.8	****	17.5	16.8	15.4
ETHYL BENZENE		1.4	****	1.9	****	2.3	****	2.5	****	2.8	3.2	3.4
	PPBC	11.2	****	15.2	****	18.4	****	20.0	****	22.4	25.6	27.2
PARA-XYLENE		0.4	****	0.6	****	0.5	****	****	****	0.2	****	0.8
	PPBC	3.2	****	4.8	****	4.0	****	****	****	1.6	****	6.4
META-XYLENE		3.8	****	3.0	****	2.4	****	2.6	****	1.2	2.0	1.2
	PPBC	30.4	****	24.0	****	19.2	****	20.8	****	9.6	16.0	9.6
N-PROPYL BENZENE		0.2	****	0.3	****	0.2	****	0.3	****	0.3	0.3	0.3
	PPBC	1.8	****	2.7	****	1.8	****	2.7	****	2.7	2.7	2.7
META-ETHYL TOLUENE		0.6	****	0.8	****	1.0	****	1.2	****	1.5	2.0	1.8
	PPBC	5.4	****	7.2	****	9.0	****	10.8	****	13.5	18.0	16.2
PAN		0.0	****	0.0	****	0.0	****	0.0	****	1.0	****	1.7
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	2.0	****	3.4
FORMALDEHYDE		17.0	****	37.0	****	68.0	****	90.0	****	91.0	112	116
	PPBC	17.0	****	37.0	****	68.0	****	90.0	****	91.0	112	116
3P COL., 2 MIN 40 SEC		15.0	****	44.0	****	86.0	****	116	****	154	174	220
3P COL., 4 MIN 5 SEC		2.0	****	2.0	****	4.0	****	6.0	****	8.0	6.0	8.0
3P COL., 5 MIN 00 SEC		****	****	24.0	****	****	****	44.0	****	****	148	70.0
3P COL., 5 MIN 30 SEC		12.0	****	10.0	****	42.0	****	24.0	****	48.0	28.0	24.0
3P COL., 7 MIN 00 SEC		2.0	****	2.0	****	2.0	****	2.0	****	2.0	2.0	2.0
3P COL., 13 MIN 40 SEC		1.0	****	1.0	****	1.0	****	1.0	****	2.0	2.0	2.0
3P COL., 21 MIN 00 SEC		0.0	****	0.0	****	1.0	****	3.0	****	3.0	3.0	3.0

SURROGATE RUN 43-E
GLASS CHAMBER
1973 NOV 30

CLOCK TIME	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	300	360
3P COL., 23 MIN 00 SEC	4.0	****	6.0	****	6.0	****	6.0	****	7.0	5.0	6.0
3P COL., 35 MIN 00 SEC	2.0	****	4.0	****	5.0	****	6.0	****	7.0	9.0	11.0
3P COL., 49 MIN 00 SEC	0.0	****	0.0	****	2.0	****	8.0	****	12.0	18.0	****
TOTAL HC PPBC	2067.0	****	****	****	2129.9	****	****	****	2158.5	****	2201.3
TOTAL NON-METHANE HC	397.0	212.5	368.2	197.0	459.9	184.0	424.4	178.2	508.5	474.1	531.3
TOTAL SURROGATE	331.0	211.1	240.6	193.7	268.3	179.3	212.6	171.1	239.3	193.6	223.0

SURROGATE RUN 44-E
GLASS CHAMBER
1973 DEC 3

INTERFERENCE WITH M-XYLENE AT 0930; ESTIMATE 3.8 PPB

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	270	300	360
		CONCENTRATIONS (PPB)											
METHANE		1760	****	****	****	1730	****	****	****	1730	****	****	1700
	PPBC	1760	****	****	****	1730	****	****	****	1730	****	****	1700
ETHENE		10.8	****	****	****	10.0	****	****	****	6.8	****	****	6.8
	PPBC	21.6	****	****	****	20.0	****	****	****	13.6	****	****	13.6
ETHANE		19.6	****	****	****	20.0	****	****	****	15.2	****	****	18.4
	PPBC	39.2	****	****	****	40.0	****	****	****	30.4	****	****	36.8
ACETYLENE (POROPAK N)		12.8	****	****	****	12.8	****	****	****	9.6	****	****	11.6
	PPBC	25.6	****	****	****	25.6	****	****	****	19.2	****	****	23.2
PROPANE		2.2	2.3	2.2	2.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5
	PPBC	6.6	6.9	6.6	6.0	6.9	6.9	6.9	7.2	7.2	7.2	7.2	7.5
PROPENE		2.5	2.2	2.0	1.6	1.4	1.4	1.0	0.8	0.8	0.6	0.6	0.5
	PPBC	7.5	6.6	6.0	4.8	4.2	4.2	3.0	2.4	2.4	1.8	1.8	1.5
ISOBUTANE		0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4
	PPBC	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.8	0.8	1.2	1.6	1.6
N-BUTANE		****	20.8	20.0	19.8	19.6	19.4	19.0	19.0	18.4	17.6	18.0	17.2
	PPBC	****	83.2	80.0	79.2	78.4	77.6	76.0	76.0	73.6	70.4	72.0	68.8
ACETYLENE (DMS)		11.9	11.2	11.0	11.0	11.2	11.2	11.6	11.0	10.0	10.0	10.8	10.8
	PPBC	23.8	22.4	22.0	22.0	22.4	22.4	23.2	22.0	20.0	20.0	21.6	21.6
ISOPENTANE		0.0	0.0	0.2	0.2	0.4	0.5	0.6	0.5	0.6	0.6	0.6	1.0
	PPBC	0.0	0.0	1.0	1.0	2.0	2.5	3.0	2.5	3.0	3.0	3.0	5.0
CIS-2-BUTENE		2.0	1.9	1.5	0.5	0.4	0.5	0.4	0.0	0.0	0.0	0.0	0.0
	PPBC	8.0	7.6	6.0	2.0	1.6	2.0	1.6	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.4	0.4	0.4
	PPBC	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
2,3-DIMETHYL BUTANE		13.8	13.0	12.0	11.4	11.4	11.2	10.2	10.2	10.0	9.6	9.6	7.6
	PPBC	82.8	78.0	72.0	68.4	68.4	67.2	61.2	61.2	60.0	57.6	57.6	45.6
2-METHYL BUTENE-2		1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 44-E
GLASS CHAMBER
1973 DEC 3

CLOCK TIME		930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530
ELAPSED TIME(MIN)		0	30	60	90	120	150	180	210	240	270	300	360
ACETALDEHYDE		****	****	9.2	****	10.6	****	12.4	0.0	19.2	****	14.0	14.8
	PPBC	****	****	18.4	****	21.2	****	24.8	0.0	38.4	****	28.0	29.6
PROPIONALDEHYDE		1.4	****	0.8	****	1.4	****	1.2	0.0	2.4	****	1.6	2.0
	PPBC	4.2	****	2.4	****	4.2	****	3.6	0.0	7.2	****	4.8	6.0
ACETONE		6.6	****	11.4	****	13.2	****	14.0	0.0	35.2	****	20.4	28.4
	PPBC	19.8	****	34.2	****	39.6	****	42.0	0.0	106	****	61.2	85.2
METHYL ETHYL KETONE		0.8	****	****	****	0.6	****	0.5	0.0	2.4	****	1.0	2.5
	PPBC	3.2	****	****	****	2.4	****	2.0	0.0	9.6	****	4.0	10.0
TOLUENE		3.2	****	2.2	****	2.2	****	2.4	0.0	2.8	****	2.8	3.0
	PPBC	22.4	****	15.4	****	15.4	****	16.8	0.0	19.6	****	19.6	21.0
ETHYL BENZENE		3.0	****	1.7	****	4.4	****	2.7	****	6.1	****	****	3.9
	PPBC	24.0	****	13.6	****	35.2	****	21.6	****	48.8	****	****	31.2
PARA-XYLENE		4.0	****	0.5	****	****	****	****	****	****	****	****	****
	PPBC	32.0	****	4.0	****	****	****	****	****	****	****	****	****
META-XYLENE		****	****	3.6	****	3.5	****	1.9	****	1.9	****	****	1.1
	PPBC	****	****	28.8	****	28.0	****	15.2	****	15.2	****	****	8.8
N-PROPYL BENZENE		2.0	****	0.1	****	0.8	****	0.8	0.0	1.4	****	0.8	0.5
	PPBC	18.0	****	0.9	****	7.2	****	7.2	0.0	12.6	****	7.2	4.5
META-ETHYL TOLUENE		1.2	****	0.4	****	1.6	****	2.0	0.0	2.6	****	2.4	2.0
	PPBC	10.8	****	3.6	****	14.4	****	18.0	0.0	23.4	****	21.6	18.0
PAN		0.0	****	0.0	****	0.5	****	0.5	0.0	0.7	****	1.0	1.5
	PPBC	0.0	****	0.0	****	1.0	****	1.0	0.0	1.4	****	2.0	3.0
FORMALDEHYDE		28.0	****	50.0	****	78.0	****	102	0.0	107	****	104	116
	PPBC	28.0	****	50.0	****	78.0	****	102	0.0	107	****	104	116
3P COL., 2 MIN 40 SEC		38.0	****	48.0	****	84.0	****	120	0.0	160	****	200	252
3P COL., 3 MIN 30 SEC		28.0	****	34.0	****	****	****	****	0.0	****	****	****	0.0
3P COL., 4 MIN 5 SEC		4.0	****	3.0	****	5.0	****	3.0	0.0	3.0	****	2.0	0.0
3P COL., 5 MIN 00 SEC		10.0	****	25.0	****	30.0	****	40.0	0.0	32.0	****	****	0.0
3P COL., 5 MIN 30 SEC		0.0	****	14.0	****	32.0	****	6.0	0.0	42.0	****	****	66.0
3P COL., 7 MIN 00 SEC		0.0	****	1.0	****	1.0	****	1.0	0.0	2.0	****	****	2.0
3P COL., 13 MIN 40 SEC		0.0	****	1.0	****	0.0	****	0.0	0.0	2.0	****	0.0	1.0
3P COL., 21 MIN 00 SEC		5.0	****	0.0	****	1.0	****	1.0	0.0	3.0	****	3.0	4.0

SURROGATE RUN 44-E
GLASS CHAMBER
1973 DEC 3

CLOCK TIME	930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530
ELAPSED TIME(MIN)	0	30	60	90	120	150	180	210	240	270	300	360
3P COL., 22 MIN 00 SEC	0.0	****	0.0	****	0.0	****	2.0	0.0	0.0	****	0.0	0.0
3P COL., 23 MIN 00 SEC	14.0	****	2.0	****	8.0	****	7.0	0.0	8.0	****	12.0	14.0
3P COL., 35 MIN 00 SEC	11.0	****	3.0	****	11.0	****	11.0	0.0	10.0	****	10.0	10.0
3P COL., 49 MIN 00 SEC	15.0	****	2.0	****	8.0	****	7.0	0.0	8.0	****	12.0	14.0
TOTAL HC PPBC	2117.8	****	****	****	2222.1	****	****	****	2331.4	****	****	2238.1
TOTAL NON-METHANE HC	357.8	204.7	364.9	183.8	492.1	183.8	431.5	174.1	601.4	163.2	419.2	538.1
TOTAL SURROGATE	217.8	204.7	236.8	182.4	286.9	180.3	203.9	168.8	241.6	157.0	179.8	226.0

SURROGATE RUN 45-E
GLASS CHAMBER
1973 DEC 13

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1600	****	****	****	1620	****	****	****	1620	****	1630
	PPBC	1600	****	****	****	1620	****	****	****	1620	****	1630
ETHENE		12.8	****	****	****	10.8	****	****	****	9.6	****	8.8
	PPBC	25.6	****	****	****	21.6	****	****	****	19.2	****	17.6
ETHANE		24.0	****	****	****	24.0	****	****	****	23.8	****	23.8
	PPBC	48.0	****	****	****	48.0	****	****	****	47.6	****	47.6
ACETYLENE (POROPAK N)		15.6	****	****	****	15.4	****	****	****	14.2	****	14.2
	PPBC	31.2	****	****	****	30.8	****	****	****	28.4	****	28.4
PROPANE		2.9	2.9	3.0	3.3	3.6	3.6	3.6	3.6	3.8	4.0	4.5
	PPBC	8.7	8.7	9.0	9.9	10.8	10.8	10.8	10.8	11.4	12.0	13.5
PROPENE		2.6	2.3	1.9	1.6	1.5	1.4	1.4	1.2	1.0	0.7	0.5
	PPBC	7.8	6.9	5.7	4.8	4.5	4.2	4.2	3.6	3.0	2.1	1.5
ISOBUTANE		0.6	0.5	0.6	0.6	0.8	0.8	0.8	1.2	1.2	1.3	1.6
	PPBC	2.4	2.0	2.4	2.4	3.2	3.2	3.2	4.8	4.8	5.2	6.4
N-BUTANE		22.4	22.2	21.4	21.2	21.0	20.8	20.8	20.8	20.4	20.0	19.4
	PPBC	89.6	88.8	85.6	84.8	84.0	83.2	83.2	83.2	81.6	80.0	77.6
ACETYLENE (DMS)		14.8	14.4	14.4	14.8	14.3	14.4	14.6	14.2	14.4	14.6	14.2
	PPBC	29.6	28.8	28.8	29.6	28.6	28.8	29.2	28.4	28.8	29.2	28.4
ISOBUTENE		0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0
	PPBC	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
ISOPENTANE		0.2	0.4	0.6	1.4	1.4	1.4	1.5	1.5	1.6	1.9	2.4
	PPBC	1.0	2.0	3.0	7.0	7.0	7.0	7.5	7.5	8.0	9.5	12.0
CIS-2-BUTENE		2.2	1.0	1.0	1.0	0.5	0.5	0.4	0.4	0.0	0.0	0.0
	PPBC	8.8	4.0	4.0	4.0	2.0	2.0	1.6	1.6	0.0	0.0	0.0
N-PENTANE		0.0	0.4	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.9	1.0
	PPBC	0.0	2.0	2.0	2.5	3.0	2.0	2.5	3.0	2.5	4.5	5.0
2,3-DIMETHYL BUTANE		13.9	12.2	11.6	11.4	10.5	10.4	10.0	9.6	9.0	8.8	8.4
	PPBC	83.4	73.2	69.6	68.4	63.0	62.4	60.0	57.6	54.0	52.8	50.4

SURROGATE RUN 45-E
GLASS CHAMBER
1973 DEC 13

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2-METHYL BUTENE-2		2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		1.0	****	5.4	****	7.8	****	13.6	****	13.4	8.6	11.6
	PPBC	2.0	****	10.8	****	15.6	****	27.2	****	26.8	17.2	23.2
PROPIONALDEHYDE		0.4	****	0.4	****	0.8	****	1.4	****	1.6	1.6	2.4
	PPBC	1.2	****	1.2	****	2.4	****	4.2	****	4.8	4.8	7.2
ACETONE		2.4	****	3.8	****	8.6	****	16.0	****	16.4	18.4	24.4
	PPBC	7.2	****	11.4	****	25.8	****	48.0	****	49.2	55.2	73.2
BENZENE		0.0	****	0.0	****	0.1	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	0.0	****	0.6	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.4	****	0.5	****	1.0	****	0.6	****	1.8	1.2	6.4
	PPBC	1.6	****	2.0	****	4.0	****	2.4	****	7.2	4.8	25.6
TOLUENE		1.8	****	2.2	****	1.8	****	2.4	****	3.0	1.6	4.4
	PPBC	12.6	****	15.4	****	12.6	****	16.8	****	21.0	11.2	30.8
ETHYL BENZENE		0.2	****	0.1	****	0.0	****	0.2	****	0.2	0.2	1.4
	PPBC	1.6	****	0.8	****	0.0	****	1.6	****	1.6	1.6	11.2
PARA-XYLENE		0.8	****	0.6	****	1.0	****	****	****	1.9	0.8	2.8
	PPBC	6.4	****	4.8	****	8.0	****	****	****	15.2	6.4	22.4
META-XYLENE		3.0	****	2.8	****	2.0	****	2.0	****	1.8	1.2	2.0
	PPBC	24.0	****	22.4	****	16.0	****	16.0	****	14.4	9.6	16.0
ORTHO-XYLENE		0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.2	0.2
	PPBC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	1.6	1.6
META-ETHYL TOLUENE		0.4	****	0.4	****	0.4	****	1.2	****	1.6	0.4	1.0
	PPBC	3.6	****	3.6	****	3.6	****	10.8	****	14.4	3.6	9.0
FORMALDEHYDE		57.0	****	45.0	****	44.0	****	82.0	****	78.0	100	102
	PPBC	57.0	****	45.0	****	44.0	****	82.0	****	78.0	100	102
3P COL. 2 MIN 40 SEC		22.0	****	60.0	****	102	****	140	****	174	0.0	236
	PPBC	22.0	****	60.0	****	102	****	140	****	174	0.0	236
3P COL., 3 MIN 20 SEC		0.0	****	0.0	****	0.0	****	0.0	****	0.0	60.0	52.0
3P COL., 4 MIN 5 SEC		2.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 4 MIN 50 SEC		8.0	****	0.0	****	0.0	****	54.0	****	0.0	0.0	0.0
3P COL., 5 MIN 30 SEC		0.0	****	0.0	****	22.0	****	0.0	****	0.0	0.0	0.0
3P COL., 6 MIN 40 SEC		0.0	****	0.0	****	0.0	****	3.0	****	2.0	2.0	2.0

SURROGATE RUN 45-E
GLASS CHAMBER
1973 DEC 13

CLOCK TIME	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 11 MIN 10 SEC	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	22.0
3P COL., 21 MIN 00 SEC	0.0	****	0.0	****	0.0	****	1.0	****	3.0	3.0	4.0
3P COL., 22 MIN 00 SEC	0.0	****	0.0	****	0.0	****	2.0	****	2.0	0.0	0.0
3P COL., 33 MIN 00 SEC	2.0	****	2.0	****	2.0	****	6.0	****	7.0	3.0	****
3P COL., 47 MIN 00 SEC	0.0	****	0.0	****	0.0	****	****	****	****	13.0	****

SURROGATE RUN 46-E
GLASS CHAMBER
1973 DEC 18

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1550	****	****	****	1500	****	****	****	1440	****	1360
	PPBC	1550	****	****	****	1500	****	****	****	1440	****	1360
ETHENE		3.2	****	****	****	2.4	****	****	****	2.0	****	1.8
	PPBC	6.4	****	****	****	4.8	****	****	****	4.0	****	3.6
ETHANE		9.2	****	****	****	8.4	****	****	****	8.4	****	8.4
	PPBC	18.4	****	****	****	16.8	****	****	****	16.8	****	16.8
ACETYLENE (POROPAK N)		2.0	****	****	****	1.6	****	****	****	1.8	****	1.6
	PPBC	4.0	****	****	****	3.2	****	****	****	3.6	****	3.2
PROPANE		****	0.6	1.0	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7
	PPBC	****	1.8	3.0	1.8	1.5	1.5	1.5	1.5	1.8	1.8	2.1
PROPENE		****	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	****	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOBUTANE		0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1
	PPBC	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.4
N-BUTANE		0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
	PPBC	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
ACETYLENE (DMS)		2.0	1.8	1.8	1.8	1.5	1.6	1.5	1.6	1.6	1.8	1.6
	PPBC	4.0	3.6	3.6	3.6	3.0	3.2	3.0	3.2	3.2	3.6	3.2
ISOPENTANE		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
	PPBC	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0
ACETALDEHYDE		4.6	****	5.0	****	6.8	****	5.8	****	4.0	5.0	4.2
	PPBC	9.2	****	10.0	****	13.6	****	11.6	****	8.0	10.0	8.4
PROPIONALDEHYDE		0.5	****	0.6	****	1.4	****	1.2	****	1.2	1.4	1.0
	PPBC	1.5	****	1.8	****	4.2	****	3.6	****	3.6	4.2	3.0
ACETONE		1.8	****	7.4	****	15.2	****	12.0	****	10.0	14.8	16.8
	PPBC	5.4	****	22.2	****	45.6	****	36.0	****	30.0	44.4	50.4
BENZENE		0.6	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	3.6	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0

SURROGATE RUN 46-E
GLASS CHAMBER
1973 DEC 18

CLOCK TIME		1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
METHYL ETHYL KETONE		****	****	****	****	****	****	****	****	0.4	0.4	****
	PPBC	****	****	****	****	****	****	****	****	1.6	1.6	****
TOLUENE		0.2	****	0.2	****	0.2	****	0.4	****	0.4	0.4	0.4
	PPBC	1.4	****	1.4	****	1.4	****	2.8	****	2.8	2.8	2.8
PARA-XYLENE		0.2	****	1.2	****	2.4	****	1.6	****	1.6	1.4	1.0
	PPBC	1.6	****	9.6	****	19.2	****	12.8	****	12.8	11.2	8.0
META-XYLENE		1.4	****	0.4	****	0.4	****	0.4	****	0.2	0.0	0.4
	PPBC	11.2	****	3.2	****	3.2	****	3.2	****	1.6	0.0	3.2
META-ETHYL TOLUENE		0.8	****	0.6	****	1.5	****	0.9	****	0.9	0.8	0.6
	PPBC	7.2	****	5.4	****	13.5	****	8.1	****	8.1	7.2	5.4
FORMALDEHYDE		7.0	****	7.0	****	6.0	****	14.0	****	18.0	21.0	8.0
	PPBC	7.0	****	7.0	****	6.0	****	14.0	****	18.0	21.0	8.0
3P COL. 2 MIN 40 SEC		****	****	64.0	****	94.0	****	132	****	172	208	220
	PPBC	****	****	64.0	****	94.0	****	132	****	172	208	220
3P COL., 4 MIN 5 SEC		0.0	****	1.0	****	0.0	****	2.0	****	****	2.0	0.0
3P COL., 4 MIN 50 SEC		8.0	****	24.0	****	36.0	****	50.0	****	0.0	0.0	0.0
3P COL., 5 MIN 20 SEC		0.0	****	14.0	****	24.0	****	9.0	****	47.0	56.0	0.0
3P COL., 6 MIN 10 SEC		4.0	****	0.0	****	2.0	****	2.0	****	2.0	0.0	0.0
3P COL., 7 MIN 00 SEC		0.0	****	0.0	****	2.0	****	2.0	****	1.0	2.0	0.0
3P COL., 10 MIN 50 SEC		2.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 14 MIN 00 SEC		8.0	****	4.0	****	8.0	****	5.0	****	4.0	4.0	2.0
3P COL., 21 MIN 00 SEC		4.0	****	1.0	****	2.0	****	2.0	****	2.0	3.0	0.0
3P COL., 22 MIN 00 SEC		3.0	****	3.0	****	9.0	****	3.0	****	2.0	1.0	0.0
3P COL., 33 MIN 00 SEC		4.0	****	3.0	****	9.0	****	6.0	****	5.0	5.0	0.0
3P COL., 47 MIN 00 SEC		6.0	****	4.0	****	12.0	****	12.0	****	14.0	14.0	0.0

SURROGATE RUN 47-E
GLASS CHAMBER
1973 DEC 19

1430 OXYGENATE SAMPLE HELD IN SYRINGE ABOUT 1 MIN LONGER THAN USUAL

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1790	****	****	****	1790	****	****	****	1810	****	1790
	PPBC	1790	****	****	****	1790	****	****	****	1810	****	1790
ETHENE		10.4	****	****	****	8.8	****	****	****	7.2	****	6.8
	PPBC	20.8	****	****	****	17.6	****	****	****	14.4	****	13.6
ETHANE		22.4	****	****	****	22.8	****	****	****	22.0	****	21.2
	PPBC	44.8	****	****	****	45.6	****	****	****	44.0	****	42.4
ACETYLENE (POROPAK N)		11.2	****	****	****	10.8	****	****	****	9.2	****	10.0
	PPBC	22.4	****	****	****	21.6	****	****	****	18.4	****	20.0
PROPANE		2.2	2.3	2.3	2.4	2.4	2.4	2.6	2.6	2.7	2.8	3.0
	PPBC	6.6	6.9	6.9	7.2	7.2	7.2	7.8	7.8	8.1	8.4	9.0
PROPENE		2.6	2.4	2.2	1.9	1.6	1.4	1.4	1.2	1.0	0.8	0.6
	PPBC	7.8	7.2	6.6	5.7	4.8	4.2	4.2	3.6	3.0	2.4	1.8
ISOBUTANE		0.2	0.2	0.0	0.1	0.2	0.1	0.3	0.4	0.4	0.5	0.8
	PPBC	0.8	0.8	0.0	0.4	0.8	0.4	1.2	1.6	1.6	2.0	3.2
N-BUTANE		21.6	21.4	21.0	20.4	20.4	20.0	19.0	18.8	18.8	18.4	17.2
	PPBC	86.4	85.6	84.0	81.6	81.6	80.0	76.0	75.2	75.2	73.6	68.8
ACETYLENE (DMS)		11.0	10.0	10.4	10.0	10.0	9.4	9.8	9.5	9.2	9.4	9.5
	PPBC	22.0	20.0	20.8	20.0	20.0	18.8	19.6	19.0	18.4	18.8	19.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.5	1.2
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.5	3.0	2.5	6.0
CIS-2-BUTENE		2.4	2.0	1.5	1.2	0.6	0.4	0.4	0.4	0.0	0.0	0.0
	PPBC	9.6	8.0	6.0	4.8	2.4	1.6	1.6	1.6	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.2	0.5	0.5	0.8
	PPBC	0.0	0.0	0.0	0.0	0.0	2.0	2.0	1.0	2.5	2.5	4.0
2,3-DIMETHYL BUTANE		12.8	12.7	12.0	11.4	11.0	11.2	10.4	10.4	9.8	8.6	7.8
	PPBC	76.8	76.2	72.0	68.4	66.0	67.2	62.4	62.4	58.8	51.6	46.8
2-METHYL BUTENE-2		2.0	2.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	10.0	10.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 47-E
GLASS CHAMBER
1973 DEC 19

CLOCK TIME		1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
ACETALDEHYDE		4.0	****	6.1	****	10.4	****	14.6	****	35.2	12.8	17.0
	PPBC	8.0	****	12.2	****	20.8	****	29.2	****	70.4	25.6	34.0
PROPIONALDEHYDE		0.6	****	0.7	****	2.0	****	1.6	****	3.0	3.2	2.8
	PPBC	1.8	****	2.1	****	6.0	****	4.8	****	9.0	9.6	8.4
ACETONE		4.4	****	9.0	****	16.0	****	26.4	****	59.2	30.4	28.0
	PPBC	13.2	****	27.0	****	48.0	****	79.2	****	178	91.2	84.0
METHYL ETHYL KETONE		0.0	****	0.4	****	1.0	****	0.0	****	7.2	1.2	0.0
	PPBC	0.0	****	1.6	****	4.0	****	0.0	****	28.8	4.8	0.0
TOLUENE		2.0	****	2.0	****	2.2	****	2.0	****	2.4	2.4	3.2
	PPBC	14.0	****	14.0	****	15.4	****	14.0	****	16.8	16.8	22.4
ETHYL BENZENE		0.1	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.2
	PPBC	0.8	****	0.0	****	0.0	****	0.0	****	0.0	0.0	1.6
PARA-XYLENE		0.4	****	1.4	****	****	****	****	****	****	****	0.0
	PPBC	3.2	****	11.2	****	****	****	****	****	****	****	0.0
META-XYLENE		3.6	****	3.0	****	2.4	****	2.4	****	2.0	1.2	4.0
	PPBC	28.8	****	24.0	****	19.2	****	19.2	****	16.0	9.6	32.0
META-ETHYL TOLUENE		0.4	****	0.7	****	0.6	****	1.2	****	1.6	0.8	2.0
	PPBC	3.6	****	6.3	****	5.4	****	10.8	****	14.4	7.2	18.0
PAN		****	****	0.0	****	0.0	****	0.0	****	1.2	1.6	1.6
	PPBC	****	****	0.0	****	0.0	****	0.0	****	2.4	3.2	3.2
FORMALDEHYDE		11.0	****	36.0	****	29.0	****	73.0	****	96.0	131	129
	PPBC	11.0	****	36.0	****	29.0	****	73.0	****	96.0	131	129
3P COL. 2 MIN 40 SEC		0.0	****	47.0	****	86.0	****	118	****	152	196	232
	PPBC	0.0	****	47.0	****	86.0	****	118	****	152	196	232
3P COL., 3 MIN 30 SEC		22.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 4 MIN 05 SEC		0.0	****	2.0	****	0.0	****	8.0	****	12.0	11.0	4.0
3P COL., 4 MIN 50 SEC		4.0	****	0.0	****	36.0	****	36.0	****	0.0	0.0	40.0
3P COL., 5 MIN 00 SEC		0.0	****	19.0	****	0.0	****	0.0	****	0.0	72.0	0.0
3P COL., 5 MIN 30 SEC		0.0	****	6.0	****	11.0	****	8.0	****	36.0	0.0	32.0
3P COL., 7 MIN 00 SEC		0.0	****	1.0	****	1.0	****	4.0	****	4.0	0.0	9.0
3P COL., 9 MIN 00 SEC		0.0	****	0.0	****	20.0	****	0.0	****	0.0	0.0	0.0
3P COL., 14 MIN 00 SEC		3.0	****	2.0	****	0.0	****	0.0	****	0.0	0.0	0.0

SURROGATE RUN 47-E
GLASS CHAMBER
1973 DEC 19

CLOCK TIME ELAPSED TIME(HR)	1030 0.00	1100 0.50	1130 1.00	1200 1.50	1230 2.00	1300 2.50	1330 3.00	1400 3.50	1430 4.00	1530 5.00	1630 6.00
3P COL., 21 MIN 00 SEC	2.0	****	2.0	****	1.0	****	2.0	****	2.0	4.0	4.0
3P COL., 22 MIN 00 SEC	1.0	****	1.0	****	0.0	****	0.0	****	6.0	0.0	4.0
3P COL., 33 MIN 00 SEC	3.0	****	4.0	****	3.0	****	4.0	****	6.0	2.0	10.0
3P COL., 47 MIN 00 SEC	4.0	****	7.0	****	9.0	****	16.0	****	30.0	17.0	36.0

SURROGATE RUN 48-E
GLASS CHAMBER
1973 DEC 20

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
		CONCENTRATIONS (PPB)										
METHANE		1630	****	****	****	1630	****	****	****	1600	****	1600
	PPBC	1630	****	****	****	1630	****	****	****	1600	****	1600
ETHENE		8.8	****	****	****	7.2	****	****	****	5.2	****	4.4
	PPBC	17.6	****	****	****	14.4	****	****	****	10.4	****	8.8
ETHANE		16.8	****	****	****	16.4	****	****	****	15.2	****	14.8
	PPBC	33.6	****	****	****	32.8	****	****	****	30.4	****	29.6
ACETYLENE (POROPAK N)		10.8	****	****	****	10.2	****	****	****	9.6	****	9.0
	PPBC	21.6	****	****	****	20.4	****	****	****	19.2	****	18.0
PROPANE		2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	PPBC	6.9	6.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
PROPENE		2.6	2.4	1.8	1.6	1.4	1.2	1.0	0.6	0.6	0.4	0.4
	PPBC	7.8	7.2	5.4	4.8	4.2	3.6	3.0	1.8	1.8	1.2	1.2
ISOBUTANE		0.0	0.3	0.1	0.2	0.2	0.2	0.1	0.3	0.3	0.3	0.4
	PPBC	0.0	1.2	0.4	0.8	0.8	0.8	0.4	1.2	1.2	1.2	1.6
N-BUTANE		20.8	20.8	****	20.4	19.6	19.2	18.8	18.4	18.0	17.2	15.8
	PPBC	83.2	83.2	****	81.6	78.4	76.8	75.2	73.6	72.0	68.8	63.2
ACETYLENE (DMS)		10.0	10.0	10.4	10.0	10.0	9.2	9.6	9.4	9.6	9.2	8.7
	PPBC	20.0	20.0	20.8	20.0	20.0	18.4	19.2	18.8	19.2	18.4	17.4
ISOBUTENE		0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.3	0.3	0.3	0.5
	PPBC	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.5	1.5	1.5	2.5
CIS-2-BUTENE		2.6	1.6	1.2	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0
	PPBC	10.4	6.4	4.8	2.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.3
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	1.5
2,3-DIMETHYL BUTANE		12.6	13.2	12.4	11.4	10.6	10.2	9.8	9.5	9.2	7.6	7.0
	PPBC	75.6	79.2	74.4	68.4	63.6	61.2	58.8	57.0	55.2	45.6	42.0

SURROGATE RUN 48-E
GLASS CHAMBER
1973 DEC 20

CLOCK TIME		945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(HR)		0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
2-METHYL BUTENE-2		2.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	13.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		3.4	****	7.5	****	9.5	****	12.8	****	9.2	14.0	11.6
	PPBC	6.8	****	15.0	****	19.0	****	25.6	****	18.4	28.0	23.2
PROPIONALDEHYDE		0.5	****	0.6	****	1.2	****	1.8	****	2.0	1.8	2.4
	PPBC	1.5	****	1.8	****	3.6	****	5.4	****	6.0	5.4	7.2
ACETONE		1.5	****	8.2	****	13.2	****	27.2	****	20.0	33.6	34.4
	PPBC	4.5	****	24.6	****	39.6	****	81.6	****	60.0	101	103
BENZENE		0.6	****	0.0	****	0.0	****	9.0	0.0	0.0	0.0	0.0
	PPBC	3.6	****	0.0	****	0.0	****	54.0	0.0	0.0	0.0	0.0
METHYL ETHYL KETONE		0.0	****	0.4	****	0.6	****	1.5	****	0.0	****	2.0
	PPBC	0.0	****	1.6	****	2.4	****	6.0	****	0.0	****	8.0
TOLUENE		2.0	****	1.6	****	1.6	****	1.4	****	1.2	1.4	1.2
	PPBC	14.0	****	11.2	****	11.2	****	9.8	****	8.4	9.8	8.4
ETHYL BENZENE		0.1	****	0.0	****	0.1	****	0.0	****	0.1	0.0	0.0
	PPBC	0.8	****	0.0	****	0.8	****	0.0	****	0.8	0.0	0.0
PARA-XYLENE		1.5	****	1.4	****	1.6	****	****	****	0.0	0.0	2.4
	PPBC	12.0	****	11.2	****	12.8	****	****	****	0.0	0.0	19.2
META-XYLENE		3.8	****	2.6	****	2.3	****	1.5	****	3.4	1.2	0.6
	PPBC	30.4	****	20.8	****	18.4	****	12.0	****	27.2	9.6	4.8
META-ETHYL TOLUENE		0.8	****	0.8	****	0.8	****	1.4	****	1.5	1.0	0.9
	PPBC	7.2	****	7.2	****	7.2	****	12.6	****	13.5	9.0	8.1
PAN		0.0	****	0.0	****	0.0	****	1.2	****	****	2.5	3.7
	PPBC	0.0	****	0.0	****	0.0	****	2.4	****	****	5.0	7.4
FORMALDEHYDE		0.0	****	6.0	****	24.0	****	73.0	****	38.0	70.0	63.0
	PPBC	0.0	****	6.0	****	24.0	****	73.0	****	38.0	70.0	63.0
3P COL. 2 MIN 40 SEC		24.0	****	40.0	****	88.0	****	126	****	190	182	224
	PPBC	24.0	****	40.0	****	88.0	****	126	****	190	182	224
3P COL., 4 MIN 05 SEC		0.0	****	0.0	****	2.0	****	6.0	****	6.0	10.0	14.0
3P COL., 5 MIN 00 SEC		10.0	****	0.0	****	12.0	****	38.0	****	8.0	0.0	28.0
3P COL., 5 MIN 30 SEC		0.0	****	0.0	****	4.0	****	32.0	****	0.0	0.0	12.0
3P COL., 14 MIN 00 SEC		5.0	****	1.0	****	1.0	****	4.0	****	4.0	2.0	3.0
3P COL., 21 MIN 00 SEC		3.0	****	1.0	****	1.0	****	1.0	****	2.0	5.0	4.0

SURROGATE RUN 48-E
GLASS CHAMBER
1973 DEC 20

CLOCK TIME	945	1015	1045	1115	1145	1215	1245	1315	1345	1445	1545
ELAPSED TIME(HR)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
3P COL., 22 MIN 00 SEC	3.0	****	2.0	****	2.0	****	3.0	****	4.0	4.0	4.0
3P COL., 33 MIN 00 SEC	6.0	****	4.0	****	7.0	****	9.0	****	11.0	7.0	10.0
3P COL., 47 MIN 00 SEC	12.0	****	7.0	****	12.0	****	20.0	****	****	29.0	37.0

SURROGATE RUN 49-G
GLASS CHAMBER
1974 APR 3

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		955	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700
ELAPSED TIME(MIN)		-65	0	30	60	90	120	150	180	210	240	270	300	330	360
		CONCENTRATIONS (PPB)													
METHANE		560	2910	****	****	****	2780	****	****	****	2700	****	****	****	2590
	PPBC	560	2910	****	****	****	2780	****	****	****	2700	****	****	****	2590
ETHENE		1.2	43.2	****	****	****	31.2	****	****	****	25.6	****	****	****	18.4
	PPBC	2.4	86.4	****	****	****	62.4	****	****	****	51.2	****	****	****	36.8
ETHANE		5.2	88.0	****	****	****	78.4	****	****	****	76.0	****	****	****	69.6
	PPBC	10.4	176	****	****	****	157	****	****	****	152	****	****	****	139
ACETYLENE (PORDPAK N)		1.2	51.2	****	****	****	46.4	****	****	****	44.8	****	****	****	40.0
	PPBC	2.4	102	****	****	****	92.8	****	****	****	89.6	****	****	****	80.0
PROPANE		0.8	14.2	14.0	13.8	****	13.4	13.1	12.9	12.6	12.2	12.1	12.1	11.9	11.7
	PPBC	2.4	42.6	42.0	41.4	****	40.2	39.3	38.7	37.8	36.6	36.3	36.3	35.7	35.1
PROPENE		0.2	11.2	9.6	7.8	****	5.2	4.2	3.4	2.6	2.0	1.3	1.0	0.7	0.5
	PPBC	0.6	33.6	28.8	23.4	****	15.6	12.6	10.2	7.8	6.0	3.9	3.0	2.1	1.5
ISOBUTANE		0.0	0.4	0.3	0.4	****	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6
	PPBC	0.0	1.6	1.2	1.6	****	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.4
N-BUTANE		0.2	202	198	197	****	176	176	173	168	163	157	155	150	144
	PPBC	0.8	808	792	788	****	704	704	692	672	652	628	620	600	576
ACETYLENE (DMS)		1.2	51.2	51.2	51.2	****	48.0	46.4	46.4	44.8	43.2	40.0	40.0	38.4	40.0
	PPBC	2.4	102	102	102	****	96.0	92.8	92.8	89.6	86.4	80.0	80.0	76.8	80.0
TRANS-2-BUTENE		0.0	0.6	0.4	0.2	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	2.4	1.6	0.8	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.8
	PPBC	0.0	0.0	0.0	0.0	0.0	2.0	2.5	2.5	2.5	2.5	2.5	3.5	3.5	4.0
CIS-2-BUTENE		0.0	14.4	10.4	8.0	3.0	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	57.6	41.6	32.0	12.0	6.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3
	PPBC	0.0	0.0	0.0	0.0	1.0	1.0	1.5	1.5	1.5	1.5	2.0	1.5	2.0	1.5
2,3-DIMETHYL BUTANE		0.0	104	100	95.6	90.4	86.0	83.2	79.2	77.6	73.0	67.6	67.2	63.2	60.4
	PPBC	0.0	624	600	574	542	516	499	475	466	438	406	403	379	362

SURROGATE RUN 49-G
GLASS CHAMBER
1974 APR 3

CLOCK TIME		955	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700
ELAPSED TIME(MIN)		-65	0	30	60	90	120	150	180	210	240	270	300	330	360
2-METHYL BUTENE-2		0.0	13.6	8.0	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	68.0	40.0	20.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		0.4	3.2	****	38.0	****	43.2	****	45.6	****	46.8	****	43.4	****	46.4
	PPBC	0.8	6.4	****	76.0	****	86.4	****	91.2	****	93.6	****	86.8	****	92.8
PROPIONALDEHYDE		1.0	0.5	****	1.0	****	1.6	****	2.2	****	2.8	****	3.6	****	4.0
	PPBC	3.0	1.5	****	3.0	****	4.8	****	6.6	****	8.4	****	10.8	****	12.0
ACETONE		0.7	7.8	****	37.6	****	49.2	****	61.6	****	64.0	****	80.0	****	89.6
	PPBC	2.1	23.4	****	113	****	148	****	185	****	192	****	240	****	269
BENZENE		1.1	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	6.6	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
METHYL ETHYL KETONE		1.1	0.3	****	3.5	****	6.4	****	7.0	****	8.0	****	10.4	****	11.9
	PPBC	4.4	1.2	****	14.0	****	25.6	****	28.0	****	32.0	****	41.6	****	47.6
TOLUENE		1.0	17.8	****	16.8	****	16.0	****	14.8	****	13.4	****	13.0	****	12.0
	PPBC	7.0	125	****	118	****	112	****	104	****	93.8	****	91.0	****	84.0
PARA-XYLENE		0.0	2.0	****	2.0	****	3.2	****	4.0	****	4.8	****	6.0	****	5.8
	PPBC	0.0	16.0	****	16.0	****	25.6	****	32.0	****	38.4	****	48.0	****	46.4
META-XYLENE		6.1	43.2	****	32.0	****	24.4	****	19.2	****	14.4	****	12.0	****	9.4
	PPBC	48.8	346	****	256	****	195	****	154	****	115	****	96.0	****	75.2
N-PROPYL BENZENE		0.6	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	5.4	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
META-ETHYL TOLUENE		2.4	0.8	****	0.8	****	1.6	****	2.4	****	2.4	****	3.5	****	3.6
	PPBC	21.6	7.2	****	7.2	****	14.4	****	21.6	****	21.6	****	31.5	****	32.4
1,2,3 TRIMETHYL BENZENE		5.0	2.0	****	1.5	****	2.5	****	4.6	****	5.0	****	5.4	****	6.0
	PPBC	45.0	18.0	****	13.5	****	22.5	****	41.4	****	45.0	****	48.6	****	54.0
PAN		****	0.0	****	2.0	****	9.0	****	****	19.0	23.0	****	30.0	****	36.0
	PPBC	****	0.0	****	4.0	****	18.0	****	****	38.0	46.0	****	60.0	****	72.0
FORMALDEHYDE		****	45.0	****	126	****	164	****	159	****	227	****	234	****	332
	PPBC	****	45.0	****	126	****	164	****	159	****	227	****	234	****	332
3P COL., 2 MIN 40 SEC		88.0	34.0	****	82.0	****	144	****	182	****	220	****	270	****	304
3P COL., 3 MIN 20 SEC		0.0	53.0	****	55.0	****	52.0	****	46.0	****	44.0	****	40.0	****	42.0
3P COL., 5 MIN 00 SEC		0.0	10.0	****	13.0	****	4.0	****	25.0	****	40.0	****	56.0	****	54.0
3P COL., 5 MIN 30 SEC		2.0	14.0	****	7.0	****	44.0	****	40.0	****	16.0	****	16.0	****	23.0
3P COL., 7 MIN 00 SEC		1.0	0.0	****	5.0	****	10.0	****	8.0	****	10.0	****	12.0	****	16.0

SURROGATE RUN 49-G
GLASS CHAMBER
1974 APR 3

CLOCK TIME	955	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700
ELAPSED TIME(MIN)	-65	0	30	60	90	120	150	180	210	240	270	300	330	360
3P COL., 11 MIN 30 SEC	3.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 21 MIN 00 SEC	5.0	1.0	****	1.0	****	2.0	****	2.0	****	2.0	****	3.0	****	4.0
3P COL., 23 MIN 00 SEC	6.0	1.0	****	2.0	****	2.0	****	2.0	****	2.0	****	2.0	****	1.0
3P COL., 49 MIN 00 SEC	11.0	6.0	****	4.0	****	6.0	****	10.0	****	13.0	****	19.0	****	19.0
TOTAL HC PPBC	723.7	5501.5	****	****	****	5196.9	****	****	****	5042.8	****	****	****	4946.1
TOTAL NON-METHANE HC	163.7	2591.5	1649.6	2329.3	559.4	2416.9	1355.9	2136.3	1316.4	2342.8	1160.3	2137.8	1101.3	2356.1
TOTAL SURROGATE	74.8	2471.2	1546.0	1852.8	558.4	1903.4	1257.5	1473.3	1183.2	1632.8	1073.8	1249.5	1017.0	1390.2

Moore Business Forms, Inc

SURROGATE RUN 50-G
GLASS CHAMBER
1974 APR 4

1145 ACETALDEHYDE ESTIMATED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1045	1115	1145	1215	1245	1315	1345	1415	1445	1515	1545	1615	1645
ELAPSED TIME(MIN)		-45	0	30	60	90	120	150	180	210	240	270	300	330	360
		CONCENTRATIONS (PPB)													
METHANE		584	2820	****	****	****	2660	****	****	****	2500	****	****	****	2430
	PPBC	584	2820	****	****	****	2660	****	****	****	2500	****	****	****	2430
ETHENE		1.0	32.8	****	****	****	24.8	****	****	****	19.2	****	****	****	13.6
	PPBC	2.0	65.6	****	****	****	49.6	****	****	****	38.4	****	****	****	27.2
ETHANE		4.2	67.2	****	****	****	62.4	****	****	****	55.2	****	****	****	50.4
	PPBC	8.4	134	****	****	****	125	****	****	****	110	****	****	****	101
ACETYLENE (POROPAK N)		1.3	40.0	****	****	****	36.8	****	****	****	32.0	****	****	****	28.8
	PPBC	2.6	80.0	****	****	****	73.6	****	****	****	64.0	****	****	****	57.6
PROPANE		0.8	11.1	11.0	11.2	10.9	10.7	10.5	10.4	10.1	9.9	9.7	9.4	9.3	8.9
	PPBC	2.4	33.3	33.0	33.6	32.7	32.1	31.5	31.2	30.3	29.7	29.1	28.2	27.9	26.7
PROPENE		0.1	8.6	7.6	6.5	5.2	4.3	3.6	2.8	2.4	1.9	1.5	1.1	0.8	0.6
	PPBC	0.3	25.8	22.8	19.5	15.6	12.9	10.8	8.4	7.2	5.7	4.5	3.3	2.4	1.8
ISOBUTANE		0.0	0.2	0.2	0.2	****	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4
	PPBC	0.0	0.8	0.8	0.8	****	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
N-BUTANE		0.0	160	157	149	144	141	136	133	126	124	120	116	113	107
	PPBC	0.0	640	628	596	576	564	544	532	504	496	480	464	452	428
ACETYLENE (DMS)		1.4	40.0	40.0	38.6	38.4	36.8	36.0	34.4	33.6	32.8	32.0	31.2	30.4	28.8
	PPBC	2.8	80.0	80.0	77.2	76.8	73.6	72.0	68.8	67.2	65.6	64.0	62.4	60.8	57.6
TRANS-2-BUTENE		0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	1.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.2	0.3	0.3	0.3
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.5	1.0	1.5	1.5	1.5
CIS-2-BUTENE		0.0	11.3	8.5	5.6	2.5	2.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	45.2	34.0	22.4	10.0	8.0	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2,3-DIMETHYL BUTANE		0.0	82.4	79.6	75.2	70.0	67.6	64.0	60.6	58.0	55.6	54.0	50.8	48.6	46.4
	PPBC	0.0	494	478	451	420	406	384	364	348	334	324	305	292	278

SURROGATE RUN 50-G
GLASS CHAMBER
1974 APR 4

CLOCK TIME		1000	1045	1115	1145	1215	1245	1315	1345	1415	1445	1515	1545	1615	1645
ELAPSED TIME(MIN)		-45	0	30	60	90	120	150	180	210	240	270	300	330	360
2-METHYL BUTENE-2		0.0	12.0	7.2	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	60.0	36.0	17.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		****	4.0	****	26.0	****	34.2	****	39.2	****	32.8	****	37.6	****	33.6
	PPBC	****	8.0	****	52.0	****	68.4	****	78.4	****	65.6	****	75.2	****	67.2
PROPIONALDEHYDE		0.7	1.2	****	1.6	****	1.6	****	2.2	****	2.4	****	2.8	****	3.2
	PPBC	2.1	3.6	****	4.8	****	4.8	****	6.6	****	7.2	****	8.4	****	9.6
ACETONE		1.4	10.0	****	23.0	****	31.2	****	41.6	****	48.8	****	54.4	****	63.2
	PPBC	4.2	30.0	****	69.0	****	93.6	****	125	****	146	****	163	****	190
BENZENE		0.4	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	2.4	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
METHYL ETHYL KETONE		****	0.4	****	2.4	****	4.0	****	5.7	****	7.0	****	8.0	****	8.5
	PPBC	****	1.6	****	9.6	****	16.0	****	22.8	****	28.0	****	32.0	****	34.0
TOLUENE		0.2	14.4	****	12.8	****	12.0	****	11.0	****	10.6	****	10.0	****	9.8
	PPBC	1.4	101	****	89.6	****	84.0	****	77.0	****	74.2	****	70.0	****	68.6
PARA-XYLENE		0.0	4.4	****	4.0	****	3.6	****	4.4	****	5.6	****	5.6	****	7.0
	PPBC	0.0	35.2	****	32.0	****	28.8	****	35.2	****	44.8	****	44.8	****	56.0
META-XYLENE		6.0	34.4	****	25.6	****	18.8	****	14.4	****	11.6	****	10.0	****	7.6
	PPBC	48.0	275	****	205	****	150	****	115	****	92.8	****	80.0	****	60.8
N-PROPYL BENZENE		0.6	0.2	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	5.4	1.8	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
META-ETHYL TOLUENE		2.0	1.2	****	1.4	****	1.4	****	1.9	****	2.4	****	2.6	****	3.4
	PPBC	18.0	10.8	****	12.6	****	12.6	****	17.1	****	21.6	****	23.4	****	30.6
1,2,3 TRIMETHYL BENZENE		4.4	2.8	****	3.0	****	3.0	****	4.0	****	5.0	****	5.0	****	6.0
	PPBC	39.6	25.2	****	27.0	****	27.0	****	36.0	****	45.0	****	45.0	****	54.0
PAN		****	0.0	****	0.0	****	4.0	****	8.0	****	12.0	****	17.0	****	19.0
	PPBC	****	0.0	****	0.0	****	8.0	****	16.0	****	24.0	****	34.0	****	38.0
FORMALDEHYDE		****	15.0	****	131	****	203	****	233	****	269	****	282	****	262
	PPBC	****	15.0	****	131	****	203	****	233	****	269	****	282	****	262
3P COL., 2 MIN 40 SEC		18.0	27.0	****	56.0	****	90.0	****	124	****	164	****	204	****	232
3P COL., 3 MIN 10 SEC		0.0	42.0	****	39.0	****	38.0	****	32.0	****	32.0	****	30.0	****	28.0
3P COL., 4 MIN 00 SEC		0.0	6.0	****	4.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 5 MIN 00 SEC		10.0	0.0	****	18.0	****	22.0	****	24.0	****	****	****	52.0	****	52.0
3P COL., 5 MIN 30 SEC		1.0	34.0	****	18.0	****	12.0	****	15.0	****	20.0	****	17.0	****	21.0

SURROGATE RUN 50-G
GLASS CHAMBER
1974 APR 4

CLOCK TIME	1000	1045	1115	1145	1215	1245	1315	1345	1415	1445	1515	1545	1615	1645
ELAPSED TIME(MIN)	-45	0	30	60	90	120	150	180	210	240	270	300	330	360
3P COL., 6 MIN 20 SEC	18.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 7 MIN 00 SEC	4.0	0.0	****	2.0	****	6.0	****	8.0	****	10.0	****	10.0	****	10.0
3P COL., 11 MIN 40 SEC	4.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 21 MIN 00 SEC	4.0	4.0	****	2.0	****	1.0	****	3.0	****	2.0	****	3.0	****	3.0
3P COL., 23 MIN 00 SEC	6.0	0.0	****	0.0	****	2.0	****	2.0	****	2.0	****	3.0	****	1.0
3P COL., 49 MIN 00 SEC	****	9.0	****	6.0	****	6.0	****	8.0	****	11.0	****	13.0	****	16.0
TOTAL HC PPBC	720.9	4908.3	****	****	****	4628.0	****	****	****	4400.3	****	****	****	4225.0
TOTAL NON-METHANE HC	136.9	2088.3	1313.4	1850.1	1136.1	1968.0	1046.7	1769.1	958.3	1900.3	904.2	1723.8	837.8	1795.0
TOTAL SURROGATE	65.2	1956.3	1232.6	1434.1	1059.3	1505.0	973.9	1128.6	889.5	1245.6	837.6	950.3	773.9	1049.9

SURROGATE RUN 51-G
GLASS CHAMBER
1974 APR 5

1130 ACETONE ESTIMATED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		930	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630
ELAPSED TIME(MIN)		-60	0	30	60	90	120	150	180	210	240	270	300	330	360
		CONCENTRATIONS (PPB)													
METHANE		648	1750	****	****	****	1740	****	****	****	1710	****	****	****	1700
	PPBC	648	1750	****	****	****	1740	****	****	****	1710	****	****	****	1700
ETHENE		1.1	11.6	****	****	****	8.0	****	****	****	5.6	****	****	****	5.2
	PPBC	2.2	23.2	****	****	****	16.0	****	****	****	11.2	****	****	****	10.4
ETHANE		3.8	25.6	****	****	****	25.6	****	****	****	23.2	****	****	****	22.4
	PPBC	7.6	51.2	****	****	****	51.2	****	****	****	46.4	****	****	****	44.8
ACETYLENE (POROPAK N)		0.8	13.6	****	****	****	12.4	****	****	****	11.6	****	****	****	10.8
	PPBC	1.6	27.2	****	****	****	24.8	****	****	****	23.2	****	****	****	21.6
PROPANE		1.0	4.8	4.7	4.7	4.6	4.6	4.6	4.6	4.4	4.4	4.4	4.3	4.3	4.5
	PPBC	3.0	14.4	14.1	14.1	13.8	13.8	13.8	13.8	13.2	13.2	13.2	12.9	12.9	13.5
PROPENE		0.2	3.0	2.3	1.6	1.2	1.0	0.7	0.5	0.4	0.4	0.2	0.2	0.3	0.4
	PPBC	0.6	9.0	6.9	4.8	3.6	3.0	2.1	1.5	1.2	1.2	0.6	0.6	0.9	1.2
ISOBUTANE		0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.5	0.5
	PPBC	0.0	0.4	0.8	0.8	0.8	0.8	0.8	1.2	1.6	1.6	1.6	2.0	2.0	2.0
N-BUTANE		0.3	53.6	52.4	49.6	48.0	46.4	45.2	43.2	42.4	41.2	40.0	39.2	37.6	****
	PPBC	1.2	214	210	198	192	186	181	173	170	165	160	157	150	****
ACETYLENE (DMS)		0.8	13.6	13.6	13.2	13.2	12.4	12.4	12.0	12.0	11.6	11.6	11.2	11.2	11.2
	PPBC	1.6	27.2	27.2	26.4	26.4	24.8	24.8	24.0	24.0	23.2	23.2	22.4	22.4	22.4
ISOPENTANE		0.0	0.0	0.2	0.4	0.5	0.4	0.4	0.5	0.6	0.8	0.6	0.8	1.0	0.8
	PPBC	0.0	0.0	1.0	2.0	2.5	2.0	2.0	2.5	3.0	4.0	3.0	4.0	5.0	4.0
CIS-2-BUTENE		0.0	3.8	2.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	15.2	8.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.4	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.0	2.0	2.5	2.0	2.5
2,3-DIMETHYL BUTANE		0.0	27.2	25.6	24.4	22.2	20.0	19.2	18.0	17.2	16.4	15.6	14.6	14.0	13.5
	PPBC	0.0	163	154	146	133	120	115	108	103	98.4	93.6	87.6	84.0	81.0
2-METHYL BUTENE-2		0.0	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	16.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 51-G
GLASS CHAMBER
1974 APR 5

CLOCK TIME		930	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630
ELAPSED TIME(MIN)		-60	0	30	60	90	120	150	180	210	240	270	300	330	360
ACETALDEHYDE		1.8	3.4	****	15.7	****	17.0	****	16.4	****	16.0	****	17.2	****	15.6
	PPBC	3.6	6.8	****	31.4	****	34.0	****	32.8	****	32.0	****	34.4	****	31.2
PROPIONALDEHYDE		0.5	0.7	****	1.3	****	1.7	****	1.7	****	2.4	****	2.4	****	2.6
	PPBC	1.5	2.1	****	3.9	****	5.1	****	5.1	****	7.2	****	7.2	****	7.8
ACETONE		1.2	6.6	****	14.0	****	28.4	****	28.0	****	48.0	****	36.0	****	27.2
	PPBC	3.6	19.8	****	42.0	****	85.2	****	84.0	****	144	****	108	****	81.6
BENZENE		0.2	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	1.2	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
METHYL ETHYL KETONE		0.4	0.1	****	0.8	****	2.6	****	2.8	****	4.0	****	3.9	****	3.1
	PPBC	1.6	0.4	****	3.2	****	10.4	****	11.2	****	16.0	****	15.6	****	12.4
TOLUENE		0.1	4.5	****	4.3	****	4.0	****	3.8	****	3.8	****	3.9	****	3.8
	PPBC	0.7	31.5	****	30.1	****	28.0	****	26.6	****	26.6	****	27.3	****	26.6
PARA-XYLENE		0.0	4.0	****	3.6	****	4.8	****	4.4	****	6.6	****	5.4	****	6.8
	PPBC	0.0	32.0	****	28.8	****	38.4	****	35.2	****	52.8	****	43.2	****	54.4
META-XYLENE		5.4	10.0	****	6.4	****	4.4	****	3.3	****	2.8	****	1.6	****	1.0
	PPBC	43.2	80.0	****	51.2	****	35.2	****	26.4	****	22.4	****	12.8	****	8.0
N-PROPYL BENZENE		0.6	0.0	****	0.1	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	5.4	0.0	****	0.9	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
META-ETHYL TOLUENE		1.2	1.2	****	1.3	****	1.8	****	2.0	****	2.9	****	3.4	****	3.4
	PPBC	10.8	10.8	****	11.7	****	16.2	****	18.0	****	26.1	****	30.6	****	30.6
1,2,3 TRIMETHYL BENZENE		2.5	2.2	****	2.4	****	3.0	****	3.6	****	4.8	****	5.0	****	5.4
	PPBC	22.5	19.8	****	21.6	****	27.0	****	32.4	****	43.2	****	45.0	****	48.6
PAN		****	0.0	****	2.0	****	6.0	****	8.0	****	10.0	****	9.0	****	9.0
	PPBC	****	0.0	****	4.0	****	12.0	****	16.0	****	20.0	****	18.0	****	18.0
FORMALDEHYDE		****	65.0	****	91.0	****	116	****	143	****	160	****	188	****	204
	PPBC	****	65.0	****	91.0	****	116	****	143	****	160	****	188	****	204
3P COL., 2 MIN 40 SEC		8.0	38.0	****	78.0	****	110	****	153	****	190	****	232	****	284
3P COL., 3 MIN 10 SEC		0.0	11.0	****	10.0	****	9.0	****	9.0	****	10.0	****	8.0	****	4.0
3P COL., 3 MIN 30 SEC		0.0	5.0	0.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 4 MIN 00 SEC		0.0	12.0	****	25.0	****	20.0	****	29.0	****	15.0	****	32.0	****	****
3P COL., 5 MIN 00 SEC		0.0	17.0	****	12.0	****	18.0	****	13.0	****	28.0	****	15.0	****	****
3P COL., 5 MIN 30 SEC		14.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	9.0	0.0	0.0
3P COL., 6 MIN 20 SEC		2.0	1.0	****	1.0	****	3.0	****	4.0	****	4.0	****	4.0	****	4.0

SURROGATE RUN 51-G
GLASS CHAMBER
1974 APR 5

CLOCK TIME	930	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630
ELAPSED TIME(MIN)	-60	0	30	60	90	120	150	180	210	240	270	300	330	360
3P COL., 7 MIN 00 SEC	4.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
3P COL., 11 MIN 40 SEC	2.0	0.0	****	0.0	****	1.0	****	1.0	****	3.0	****	3.0	****	3.0
3P COL., 21 MIN 00 SEC	4.0	3.0	****	3.0	****	2.0	****	2.0	****	2.0	****	2.0	****	4.0
3P COL., 22 MIN 30 SEC	10.0	4.0	0.0	4.0	****	6.0	****	8.0	****	10.0	****	12.0	****	****
3P COL., 49 MIN 00 SEC	0.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	48.0
TOTAL HC PPBC	758.3	2552.4	****	****	****	2564.7	****	****	****	2626.3	****	****	****	2404.6
TOTAL NON-METHANE HC	110.3	802.4	427.0	715.9	373.9	824.7	340.0	755.5	317.3	916.3	297.2	818.9	279.6	704.6
TOTAL SURROGATE	60.1	645.3	398.0	448.2	344.2	477.6	311.9	349.1	287.2	407.4	267.4	298.0	248.2	207.5

Moore Business Forms, Inc.

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APRIL 8

2,3-DIMETHYLBUTANE AT 1100 HOURS ESTIMATED

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		935	1005	1015	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600
ELAPSED TIME(MIN)		-85	-55	-45	0	30	60	90	120	150	180	210	240	270	300
		CONCENTRATIONS (PPB)													
METHANE		776	768	772	2080	****	****	****	2080	****	****	****	2030	****	****
	PPBC	776	768	772	2080	****	****	****	2080	****	****	****	2030	****	****
ETHENE		1.0	****	****	19.2	****	****	****	16.0	****	****	****	13.6	****	****
	PPBC	2.0	****	****	38.4	****	****	****	32.0	****	****	****	27.2	****	****
ETHANE		3.4	****	****	40.8	****	****	****	40.0	****	****	****	39.2	****	****
	PPBC	6.8	****	****	81.6	****	****	****	80.0	****	****	****	78.4	****	****
ACETYLENE (POROPAK N)		1.3	****	****	23.2	****	****	****	23.2	****	****	****	22.0	****	****
	PPBC	2.6	****	****	46.4	****	****	****	46.4	****	****	****	44.0	****	****
PROPANE		1.3	****	****	8.0	8.1	8.0	8.0	8.0	7.9	7.8	7.9	7.9	7.8	7.7
	PPBC	3.9	****	****	24.0	24.3	24.0	24.0	24.0	23.7	23.4	23.7	23.7	23.4	23.1
PROPENE		0.2	****	****	5.4	4.9	4.2	3.5	3.0	2.7	2.3	2.0	1.8	1.4	1.2
	PPBC	0.6	****	****	16.2	14.7	12.6	10.5	9.0	8.1	6.9	6.0	5.4	4.2	3.6
ISOBUTANE		0.2	****	****	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
	PPBC	0.8	****	****	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.4	2.4	2.8	3.2
N-BUTANE		0.4	****	****	96.0	99.2	94.4	92.8	91.2	88.8	85.6	64.8	83.2	80.0	78.4
	PPBC	1.6	****	****	384	397	378	371	365	355	342	259	333	320	314
ACETYLENE (DMS)		1.6	****	****	24.0	24.0	24.0	23.2	23.2	23.2	22.4	21.6	21.6	20.8	20.8
	PPBC	3.2	****	****	48.0	48.0	48.0	46.4	46.4	46.4	44.8	43.2	43.2	41.6	41.6
ISOPENTANE		0.0	****	****	0.0	0.0	0.0	0.0	0.4	1.0	1.0	1.0	1.2	1.5	1.5
	PPBC	0.0	****	****	0.0	0.0	0.0	0.0	2.0	5.0	5.0	5.0	6.0	7.5	7.5
CIS-2-BUTENE		0.0	****	****	7.1	5.6	4.0	2.9	2.0	1.0	1.0	0.5	0.0	0.0	0.0
	PPBC	0.0	****	****	28.4	22.4	16.0	11.6	8.0	4.0	4.0	2.0	0.0	0.0	0.0
N-PENTANE		0.0	****	****	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.8
	PPBC	0.0	****	****	1.5	1.5	1.5	2.0	2.5	2.5	2.5	2.5	2.5	3.0	4.0
2,3-DIMETHYL BUTANE		0.0	****	****	49.0	48.7	47.2	47.2	38.8	40.0	27.8	38.0	36.4	34.8	33.6
	PPBC	0.0	****	****	294	292	283	283	233	240	167	228	218	209	202
2-METHYL BUTENE-2		0.0	****	****	6.0	5.8	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	****	****	30.0	29.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APRIL 8

CLOCK TIME		935	1005	1015	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600
ELAPSED TIME(MIN)		-85	-55	-45	0	30	60	90	120	150	180	210	240	270	300
ACETALDEHYDE		0.4	****	****	****	****	16.8	****	23.6	****	25.0	****	28.4	****	27.2
	PPBC	0.8	****	****	****	****	33.6	****	47.2	****	50.0	****	56.8	****	54.4
PROPIONALDEHYDE		0.6	****	****	0.7	****	0.8	****	1.2	****	1.6	****	1.8	****	2.4
	PPBC	1.8	****	****	2.1	****	2.4	****	3.6	****	4.8	****	5.4	****	7.2
ACETONE		2.9	****	****	5.5	****	15.6	****	20.4	****	52.0	****	48.0	****	54.8
	PPBC	8.7	****	****	16.5	****	46.8	****	61.2	****	156	****	144	****	164
BENZENE		0.4	****	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
	PPBC	2.4	****	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0
METHYL ETHYL KETONE		0.5	****	****	0.5	****	1.4	****	2.6	****	3.2	****	3.2	****	5.2
	PPBC	2.0	****	****	2.0	****	5.6	****	10.4	****	12.8	****	12.8	****	20.8
TOLUENE		1.0	****	****	9.2	****	8.5	****	8.2	****	7.9	****	7.4	****	7.3
	PPBC	7.0	****	****	64.4	****	59.5	****	57.4	****	55.3	****	51.8	****	51.1
PARA-XYLENE		0.0	****	****	6.4	****	6.8	****	5.2	****	8.0	****	9.4	****	11.0
	PPBC	0.0	****	****	51.2	****	54.4	****	41.6	****	64.0	****	75.2	****	88.0
META-XYLENE		7.4	****	****	20.6	****	17.0	****	12.8	****	10.6	****	8.8	****	7.2
	PPBC	59.2	****	****	165	****	136	****	102	****	84.8	****	70.4	****	57.6
N-PROPYL BENZENE		0.7	****	****	0.3	****	0.1	****	0.0	****	0.1	****	0.2	****	0.1
	PPBC	6.3	****	****	2.7	****	0.9	****	0.0	****	0.9	****	1.8	****	0.9
META-ETHYL TOLUENE		1.8	****	****	2.3	****	1.6	****	1.3	****	1.4	****	2.0	****	2.8
	PPBC	16.2	****	****	20.7	****	14.4	****	11.7	****	12.6	****	18.0	****	25.2
1,2,3 TRIMETHYL BENZENE		3.6	****	****	4.0	****	4.0	****	3.0	****	4.0	****	5.0	****	5.0
	PPBC	32.4	****	****	36.0	****	36.0	****	27.0	****	36.0	****	45.0	****	45.0
PAN		****	****	****	0.0	****	0.0	****	0.9	****	1.6	****	3.0	****	4.6
	PPBC	****	****	****	0.0	****	0.0	****	1.8	****	3.2	****	6.0	****	9.2
FORMALDEHYDE		****	****	****	143	****	113	****	****	****	****	****	196	****	208
	PPBC	****	****	****	143	****	113	****	****	****	****	****	196	****	208
3P COL., 2 MIN 40 SEC		23.0	****	****	70.0	****	102	****	144	****	216	****	252	****	304
3P COL., 3 MIN 10 SEC		0.0	****	****	20.0	****	22.0	****	24.0	****	20.0	****	20.0	****	16.0
3P COL., 4 MIN 10 SEC		0.0	****	****	2.0	****	****	****	****	****	8.0	****	8.0	****	12.0
3P COL., 5 MIN 00 SEC		0.0	****	****	0.0	****	33.0	****	47.0	****	42.0	****	48.0	****	80.0
3P COL., 5 MIN 30 SEC		0.0	****	****	0.0	****	40.0	****	20.0	****	27.0	****	28.0	****	36.0
3P COL., 7 MIN 00 SEC		0.0	****	****	0.0	****	0.0	****	2.0	****	4.0	****	6.0	****	6.0
3P COL., 20 MIN 30 SEC		4.0	****	****	2.0	****	0.0	****	2.0	****	1.0	****	0.0	****	0.0

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APRIL 8

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1630	1700
ELAPSED TIME(MIN)		330	360
		CONCENTRATIONS (PPB)	
METHANE		****	2030
	PPBC	****	2030
ETHENE		****	11.2
	PPBC	****	22.4
ETHANE		****	36.8
	PPBC	****	73.6
ACETYLENE (PORAPAK N)		****	20.0
	PPBC	****	40.0
PROPANE		7.7	7.6
	PPBC	23.1	22.8
PROPENE		1.1	1.0
	PPBC	3.3	3.0
ISOBUTANE		0.8	0.8
	PPBC	3.2	3.2
N-BUTANE		76.0	74.4
	PPBC	304	298
ACETYLENE (DMS)		20.0	20.0
	PPBC	40.0	40.0
ISOPENTANE		1.5	1.7
	PPBC	7.5	8.5
CIS-2-BUTENE		0.0	0.0
	PPBC	0.0	0.0
N-PENTANE		0.8	0.8
	PPBC	4.0	4.0
2,3-DIMETHYL BUTANE		32.6	31.6
	PPBC	196	190
2-METHYL BUTENE-2		0.0	0.0
	PPBC	0.0	0.0

Moore Business Forms, Inc.

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APRIL 8

CLOCK TIME		1630	1700
ELAPSED TIME(MIN)		330	360
ACETALDEHYDE		****	27.6
	PPBC	****	55.2
PROPIONALDEHYDE		****	2.8
	PPBC	****	8.4
ACETONE		****	51.2
	PPBC	****	154
BENZENE		****	0.0
	PPBC	****	0.0
METHYL ETHYL KETONE		****	5.6
	PPBC	****	22.4
TOLUENE		****	7.4
	PPBC	****	51.8
PARA-XYLENE		****	10.2
	PPBC	****	81.6
META-XYLENE		****	6.0
	PPBC	****	48.0
N-PROPYL BENZENE		****	0.1
	PPBC	****	0.9
META-ETHYL TOLUENE		****	2.9
	PPBC	****	26.1
1,2,3 TRIMETHYL BENZENE		****	****
	PPBC	****	****
PAN		****	7.3
	PPBC	****	14.6
FORMALDEHYDE		****	222
	PPBC	****	222
3P COL., 2 MIN 40 SEC		****	344
3P COL., 3 MIN 10 SEC		****	16.0
3P COL., 4 MIN 10 SEC		****	****
3P COL., 5 MIN 00 SEC		****	60.0
3P COL., 5 MIN 30 SEC		****	36.0
3P COL., 7 MIN 00 SEC		****	6.0
3P COL., 20 MIN 30 SEC		****	0.0

SURROGATE RUN 52-G
GLASS CHAMBER
1974 APRIL 8

CLOCK TIME	1630	1700
ELAPSED TIME(MIN)	330	360
3P COL., 21 MIN 00 SEC	****	4.0
3P COL., 23 MIN 00 SEC	****	3.0
3P COL., 42 MIN 00 SEC	****	****
3P COL., 49 MIN 00 SEC	****	****
TOTAL HC PPBC	****	3379.3
TOTAL NON-METHANE HC	580.7	1349.3
TOTAL SURROGATE	526.0	748.8

SURROGATE RUN 53-G
GLASS CHAMBER
1974 APR 10

1315 SAMPLE RUN ON ROOM 121 GC

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1125	1200	1230	1300	1315	1330	1400	1430	1500	1530	1600	1700	1800
ELAPSED TIME(MIN)		-120	-35	0	30	60	75	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)													
METHANE		624	660	2080	****	****	****	****	2060	****	****	****	2020	****	1920
	PPBC	624	660	2080	****	****	****	****	2060	****	****	****	2020	****	1920
ETHENE		2.0	****	21.6	****	****	****	****	14.8	****	****	****	12.0	****	9.6
	PPBC	4.0	****	43.2	****	****	****	****	29.6	****	****	****	24.0	****	19.2
ETHANE		4.8	****	43.2	****	****	****	****	41.2	****	****	****	39.2	****	36.0
	PPBC	9.6	****	86.4	****	****	****	****	82.4	****	****	****	78.4	****	72.0
ACETYLENE (POROPAK N)		3.3	****	26.4	****	****	****	****	24.4	****	****	****	23.2	****	21.2
	PPBC	6.6	****	52.8	****	****	****	****	48.8	****	****	****	46.4	****	42.4
PROPANE		0.9	****	7.4	7.3	****	7.2	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.6
	PPBC	2.7	****	22.2	21.9	****	21.6	20.7	20.7	20.4	20.4	20.4	20.4	20.1	19.8
PROPENE		0.1	****	5.2	4.0	****	2.8	2.0	1.6	1.3	1.1	0.8	0.7	0.4	0.3
	PPBC	0.3	****	15.6	12.0	****	8.4	6.0	4.8	3.9	3.3	2.4	2.1	1.2	0.9
ISOBUTANE		0.0	****	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5
	PPBC	0.0	****	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	2.0	2.0
N-BUTANE		0.2	****	94.4	93.6	90.4	89.6	87.2	84.8	80.0	80.0	78.4	76.8	74.4	71.2
	PPBC	0.8	****	378	374	362	358	349	339	320	320	314	307	298	285
ACETYLENE (DMS)		3.3	****	25.6	25.6	24.0	26.8	24.0	24.0	24.0	24.0	23.2	23.2	22.4	21.6
	PPBC	6.6	****	51.2	51.2	48.0	53.6	48.0	48.0	48.0	48.0	46.4	46.4	44.8	43.2
TRANS-2-BUTENE		0.0	****	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	****	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.1	****	****	****	0.3	0.3	0.6	0.7	0.7	0.5	0.6	0.6	0.6	0.7
	PPBC	0.5	****	****	****	1.5	1.5	3.0	3.5	3.5	2.5	3.0	3.0	3.0	3.5
CIS-2-BUTENE		0.0	****	6.8	3.4	1.0	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	****	27.2	13.6	4.0	2.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.1	****	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.4	0.4
	PPBC	0.5	****	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	2.0	2.0
2,3-DIMETHYL BUTANE		0.0	****	48.2	45.6	42.4	45.4	41.0	39.6	36.4	36.2	34.3	33.6	31.4	29.6
	PPBC	0.0	****	289	274	254	272	246	238	218	217	206	202	188	178

SURROGATE RUN 53-G
GLASS CHAMBER
1974 APR 10

CLOCK TIME		1000	1125	1200	1230	1300	1315	1330	1400	1430	1500	1530	1600	1700	1800
ELAPSED TIME(MIN)		-120	-35	0	30	60	75	90	120	150	180	210	240	300	360
2-METHYL BUTENE-2		0.0	****	6.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	****	32.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		2.0	****	****	****	24.8	****	****	25.6	****	27.2	****	27.6	26.0	26.8
	PPBC	4.0	****	****	****	49.6	****	****	51.2	****	54.4	****	55.2	52.0	53.6
PROPIONALDEHYDE		0.5	****	1.9	****	2.0	****	****	2.2	****	2.6	****	2.8	2.8	2.8
	PPBC	1.5	****	5.7	****	6.0	****	****	6.6	****	7.8	****	8.4	8.4	8.4
ACETONE		2.8	****	7.5	****	35.2	****	****	59.2	****	59.2	****	57.6	67.2	62.4
	PPBC	8.4	****	22.5	****	106	****	****	178	****	178	****	173	202	187
BENZENE		0.0	****	0.0	****	0.0	****	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	****	0.0	****	0.0	****	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.3	****	0.5	****	2.4	****	****	5.2	****	5.6	****	5.0	5.4	5.6
	PPBC	1.2	****	2.0	****	9.6	****	****	20.8	****	22.4	****	20.0	21.6	22.4
TOLUENE		0.3	****	9.1	****	8.2	****	****	8.0	****	8.0	****	8.0	7.6	7.6
	PPBC	2.1	****	63.7	****	57.4	****	****	56.0	****	56.0	****	56.0	53.2	53.2
PARA-XYLENE		0.0	****	0.0	****	5.2	****	****	6.8	****	7.6	****	6.0	8.0	5.4
	PPBC	0.0	****	0.0	****	41.6	****	****	54.4	****	60.8	****	48.0	64.0	43.2
META-XYLENE		5.0	****	20.8	****	13.2	****	****	9.8	****	8.2	****	7.2	6.0	5.4
	PPBC	40.0	****	166	****	106	****	****	78.4	****	65.6	****	57.6	48.0	43.2
N-PROPYL BENZENE		0.1	****	0.0	****	0.0	****	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.9	****	0.0	****	0.0	****	****	0.0	****	0.0	****	0.0	0.0	0.0
META-ETHYL TOLUENE		0.3	****	0.7	****	1.6	****	****	2.3	****	2.5	****	2.8	2.7	3.0
	PPBC	2.7	****	6.3	****	14.4	****	****	20.7	****	22.5	****	25.2	24.3	27.0
1,2,3 TRIMETHYL BENZENE		0.5	****	1.0	****	3.0	****	****	4.0	****	5.0	****	5.0	5.0	5.6
	PPBC	4.5	****	9.0	****	27.0	****	****	36.0	****	45.0	****	45.0	45.0	50.4
PAN		****	****	0.0	****	6.7	****	****	11.0	****	12.2	****	12.3	12.3	11.0
	PPBC	****	****	0.0	****	13.4	****	****	22.0	****	24.4	****	24.6	24.6	22.0
FORMALDEHYDE		****	****	124	****	152	****	****	182	****	213	****	218	244	242
	PPBC	****	****	124	****	152	****	****	182	****	213	****	218	244	242
3P COL. 2 MIN 40 SEC		12.0	****	95.0	****	140	****	****	188	****	236	****	288	344	370
	PPBC	12.0	****	95.0	****	140	****	****	188	****	236	****	288	344	370
3P COL., 3 MIN 10 SEC		0.0	****	20.0	****	22.0	****	****	20.0	****	16.0	****	18.0	16.0	16.0
3P COL., 4 MIN 10 SEC		0.0	****	12.0	****	0.0	****	****	12.0	****	16.0	****	16.0	****	16.0
3P COL., 5 MIN 00 SEC		0.0	****	0.0	****	24.0	****	****	30.0	****	30.0	****	52.0	72.0	****
3P COL., 5 MIN 30 SEC		0.0	****	0.0	****	21.0	****	****	24.0	****	32.0	****	32.0	36.0	12.0

Moore Business Forms, Inc

SURROGATE RUN 53-G
GLASS CHAMBER
1974 APR 10

CLOCK TIME	1000	1125	1200	1230	1300	1315	1330	1400	1430	1500	1530	1600	1700	1800
ELAPSED TIME(MIN)	-120	-35	0	30	60	75	90	120	150	180	210	240	300	360
3P COL., 7 MIN 00 SEC	0.0	****	0.0	****	2.0	****	****	6.0	****	6.0	****	6.0	4.0	4.0
3P COL., 21 MIN 00 SEC	0.0	****	1.0	****	2.0	****	****	3.0	****	3.0	****	3.0	4.0	4.0
3P COL., 22 MIN 30 SEC	0.0	****	2.0	****	3.0	****	****	4.0	****	3.0	****	2.0	2.0	2.0
3P COL., 42 MIN 00 SEC	0.0	****	1.0	****	2.0	****	****	2.0	****	1.0	****	2.0	1.0	****
3P COL., 49 MIN 00 SEC	0.0	****	8.0	****	12.0	****	****	14.0	****	18.0	****	20.0	19.0	****
TOTAL HC PPBC	714.3	660.0	3428.1	****	****	****	****	3533.5	****	****	****	3437.0	****	3297.2
TOTAL NON-METHANE HC	90.3	0.0	1348.1	756.5	1252.5	719.5	675.3	1473.5	615.4	1363.6	594.3	1417.0	1345.8	1377.2
TOTAL SURROGATE	66.1	****	1176.3	704.5	783.0	663.6	623.5	897.9	562.7	682.5	542.2	793.7	608.5	713.5

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

DMS COLUMN, ROOM 121, USED (PROPANE THROUGH 2-METHYL BUTENE-2)
1515 OXYGENATE AROMATIC SAMPLE POSSIBLY HELD IN SYRINGE 30 SECONDS LONGER THAN USUAL

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		930	1033	1113	1115	1200	1215	1245	1313	1318	1348	1415	1430	1514	1515
ELAPSED TIME(MIN)		-105	-42	-2	0	45	60	90	118	123	153	180	195	239	240
		CONCENTRATIONS (PPB)													
METHANE		536	544	****	2830	****	****	****	2740	****	****	****	****	****	2680
	PPBC	536	544	****	2830	****	****	****	2740	****	****	****	****	****	2680
ETHENE		2.2	****	****	36.0	****	****	****	25.6	****	****	****	****	****	22.4
	PPBC	4.4	****	****	72.0	****	****	****	51.2	****	****	****	****	****	44.8
ETHANE		11.4	****	****	78.4	****	****	****	70.4	****	****	****	****	****	69.6
	PPBC	22.8	****	****	157	****	****	****	141	****	****	****	****	****	139
ACETYLENE (POROPAK N)		2.5	****	****	42.4	****	****	****	39.2	****	****	****	****	****	38.4
	PPBC	5.0	****	****	84.8	****	****	****	78.4	****	****	****	****	****	76.8
PROPANE		1.1	****	11.6	****	12.2	****	11.3	****	12.4	11.8	****	12.2	10.7	****
	PPBC	3.3	****	34.8	****	36.6	****	33.9	****	37.2	35.4	****	36.6	32.1	****
PROPENE		0.3	****	9.4	****	6.6	****	4.5	****	4.1	3.3	****	2.7	1.9	****
	PPBC	0.9	****	28.2	****	19.8	****	13.5	****	12.3	9.9	****	8.1	5.7	****
ISOBUTANE		0.0	****	0.4	****	0.5	****	0.5	****	0.5	0.6	****	0.7	0.8	****
	PPBC	0.0	****	1.6	****	2.0	****	2.0	****	2.0	2.4	****	2.8	3.2	****
N-BUTANE		0.2	****	178	****	170	****	163	****	163	158	****	158	154	****
	PPBC	0.8	****	712	****	680	****	652	****	652	632	****	632	616	****
ACETYLENE (DMS)		2.4	****	46.9	****	46.4	****	44.5	****	45.7	44.8	****	44.9	43.3	****
	PPBC	4.8	****	93.8	****	92.8	****	89.0	****	91.4	89.6	****	89.8	86.6	****
TRANS-2-BUTENE		0.0	****	0.8	****	0.3	****	0.0	****	0.0	0.0	****	0.0	0.0	****
	PPBC	0.0	****	3.2	****	1.2	****	0.0	****	0.0	0.0	****	0.0	0.0	****
ISOPENTANE		0.0	****	0.7	****	0.7	****	0.7	****	0.9	1.0	****	1.1	1.2	****
	PPBC	0.0	****	3.5	****	3.5	****	3.5	****	4.5	5.0	****	5.5	6.0	****
CIS-2-BUTENE		0.0	****	13.2	****	4.2	****	0.8	****	0.0	0.0	****	0.0	0.0	****
	PPBC	0.0	****	52.8	****	16.8	****	3.2	****	0.0	0.0	****	0.0	0.0	****
N-PENTANE		0.0	****	0.0	****	0.3	****	****	****	0.6	0.8	****	0.5	0.6	****
	PPBC	0.0	****	0.0	****	1.5	****	****	****	3.0	4.0	****	2.5	3.0	****
2,3-DIMETHYL BUTANE		0.0	****	93.4	****	86.4	****	83.2	****	81.8	77.1	****	76.9	****	****
	PPBC	0.0	****	560	****	518	****	499	****	491	463	****	461	****	****

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

CLOCK TIME		930	1033	1113	1115	1200	1215	1245	1313	1318	1348	1415	1430	1514	1515
ELAPSED TIME(MIN)		-105	-42	-2	0	45	60	90	118	123	153	180	195	239	240
2-METHYL BUTENE-2		0.0	****	13.6	****	0.9	****	0.0	****	0.0	0.0	****	0.0	0.0	****
	PPBC	0.0	****	68.0	****	4.5	****	0.0	****	0.0	0.0	****	0.0	0.0	****
ACETALDEHYDE		3.0	****	****	1.0	****	36.8	****	36.0	****	****	31.6	****	****	32.0
	PPBC	6.0	****	****	2.0	****	73.6	****	72.0	****	****	63.2	****	****	64.0
PROPIONALDEHYDE		0.5	****	****	0.6	****	1.2	****	2.0	****	****	2.0	****	****	2.4
	PPBC	1.5	****	****	1.8	****	3.6	****	6.0	****	****	6.0	****	****	7.2
ACETONE		****	****	****	8.4	****	37.6	****	42.0	****	****	33.6	****	****	48.0
	PPBC	****	****	****	25.2	****	113	****	126	****	****	101	****	****	144
BENZENE		0.0	****	****	0.0	****	0.0	****	0.0	****	****	0.0	****	****	0.0
	PPBC	0.0	****	****	0.0	****	0.0	****	0.0	****	****	0.0	****	****	0.0
METHYL ETHYL KETONE		1.2	****	****	0.5	****	6.4	****	4.8	****	****	4.0	****	****	5.6
	PPBC	4.8	****	****	2.0	****	25.6	****	19.2	****	****	16.0	****	****	22.4
TOLUENE		1.4	****	****	13.6	****	13.2	****	12.4	****	****	12.4	****	****	0.0
	PPBC	9.8	****	****	95.2	****	92.4	****	86.8	****	****	86.8	****	****	0.0
PARA-XYLENE		0.0	****	****	0.0	****	2.4	****	5.2	****	****	0.0	****	****	6.4
	PPBC	0.0	****	****	0.0	****	19.2	****	41.6	****	****	0.0	****	****	51.2
META-XYLENE		9.8	****	****	35.2	****	22.4	****	20.4	****	****	16.8	****	****	13.6
	PPBC	78.4	****	****	282	****	179	****	163	****	****	134	****	****	109
N-PROPYL BENZENE		0.7	****	****	0.0	****	0.0	****	0.0	****	****	0.0	****	****	0.0
	PPBC	6.3	****	****	0.0	****	0.0	****	0.0	****	****	0.0	****	****	0.0
META-ETHYL TOLUENE		2.5	****	****	0.8	****	0.8	****	1.6	****	****	2.0	****	****	2.5
	PPBC	22.5	****	****	7.2	****	7.2	****	14.4	****	****	18.0	****	****	22.5
1,2,3 TRIMETHYL BENZENE		5.0	****	****	2.0	****	2.0	****	3.6	****	****	4.0	****	****	5.0
	PPBC	45.0	****	****	18.0	****	18.0	****	32.4	****	****	36.0	****	****	45.0
PAN		****	****	****	0.0	****	8.7	****	14.0	****	****	14.6	****	****	14.9
	PPBC	****	****	****	0.0	****	17.4	****	28.0	****	****	29.2	****	****	29.8
FORMALDEHYDE		****	****	****	71.0	****	122	****	156	****	****	179	****	****	186
	PPBC	****	****	****	71.0	****	122	****	156	****	****	179	****	****	186
3P COL., 2 MIN 40 SEC		22.0	****	****	82.0	****	94.0	****	168	****	****	216	****	****	260
3P COL., 3 MIN 10 SEC		0.0	****	****	29.0	****	32.0	****	36.0	****	****	28.0	****	****	32.0
3P COL., 4 MIN 10 SEC		0.0	****	****	0.0	****	0.0	****	0.0	****	****	0.0	****	****	8.0
3P COL., 5 MIN 00 SEC		0.0	****	****	0.0	****	0.0	****	24.0	****	****	****	****	****	****
3P COL., 5 MIN 30 SEC		2.0	****	****	0.0	****	16.0	****	16.0	****	****	****	****	****	16.0

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

CLOCK TIME	930	1033	1113	1115	1200	1215	1245	1313	1318	1348	1415	1430	1514	1515
ELAPSED TIME(MIN)	-105	-42	-2	0	45	60	90	118	123	153	180	195	239	240
3P COL., 7 MIN 00 SEC	2.0	****	****	6.0	****	6.0	****	6.0	****	****	6.0	****	****	6.0
3P COL., 11 MIN 40 SEC	4.0	****	****	0.0	****	0.0	****	0.0	****	****	70.0	****	****	0.0
3P COL., 21 MIN 00 SEC	7.0	****	****	1.0	****	2.0	****	2.0	****	****	3.0	****	****	3.0
3P COL., 22 MIN 00 SEC	0.0	****	****	2.0	****	1.0	****	2.0	****	****	2.0	****	****	2.0
3P COL., 23 MIN 00 SEC	6.0	****	****	2.0	****	0.0	****	0.0	****	****	0.0	****	****	0.0
3P COL., 49 MIN 00 SEC	****	****	****	1.0	****	6.0	****	12.0	****	****	15.0	****	****	15.0
TOTAL HC PPBC	747.4	544.0	****	3647.6	****	****	****	3756.0	****	****	****	****	****	3621.7
TOTAL NON-METHANE HC	211.4	0.0	1558.3	817.6	1377.1	671.0	1296.3	1016.0	1293.2	1240.9	669.4	1238.7	752.6	941.7
TOTAL SURROGATE	125.3	****	1459.4	690.4	1277.3	271.6	1201.8	520.4	1192.3	1139.9	221.2	1138.1	653.8	369.6

Moore Business Forms, Inc

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1614	1615	1714	1715
ELAPSED TIME(MIN)		299	300	359	360
		CONCENTRATIONS (PPB)			
METHANE		0.0	****	****	2660
	PPBC	0.0	****	****	2660
ETHENE		0.0	****	****	17.6
	PPBC	0.0	****	****	35.2
ETHANE		0.0	****	****	64.8
	PPBC	0.0	****	****	130
ACETYLENE (POROPAK N)		0.0	****	****	33.6
	PPBC	0.0	****	****	67.2
PROPANE		11.8	****	12.1	****
	PPBC	35.4	****	36.3	****
PROPENE		1.5	****	1.1	****
	PPBC	4.5	****	3.3	****
ISOBUTANE		0.7	****	0.8	****
	PPBC	2.8	****	3.2	****
N-BUTANE		150	****	148	****
	PPBC	600	****	592	****
ACETYLENE (DMS)		43.4	****	42.8	****
	PPBC	86.8	****	85.6	****
TRANS-2-BUTENE		0.0	****	0.0	****
	PPBC	0.0	****	0.0	****
ISOPENTANE		1.5	****	1.5	****
	PPBC	7.5	****	7.5	****
CIS-2-BUTENE		0.0	****	0.0	****
	PPBC	0.0	****	0.0	****
N-PENTANE		0.8	****	0.8	****
	PPBC	4.0	****	4.0	****
2,3-DIMETHYL BUTANE		70.8	****	67.8	****
	PPBC	425	****	407	****

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

CLOCK TIME		1614	1615	1714	1715
ELAPSED TIME(MIN)		299	300	359	360
2-METHYL BUTENE-2		0.0	****	0.0	****
	PPBC	0.0	****	0.0	****
ACETALDEHYDE		****	28.8	****	33.6
	PPBC	****	57.6	****	67.2
PROPIONALDEHYDE		****	2.4	****	3.2
	PPBC	****	7.2	****	9.6
ACETONE		****	39.2	****	52.0
	PPBC	****	118	****	156
BENZENE		****	0.0	****	0.0
	PPBC	****	0.0	****	0.0
METHYL ETHYL KETONE		****	6.4	****	6.8
	PPBC	****	25.6	****	27.2
TOLUENE		****	11.8	****	11.6
	PPBC	****	82.6	****	81.2
PARA-XYLENE		****	5.6	****	6.4
	PPBC	****	44.8	****	51.2
META-XYLENE		****	11.6	****	11.2
	PPBC	****	92.8	****	89.6
N-PROPYL BENZENE		****	0.1	****	0.1
	PPBC	****	0.9	****	0.9
META-ETHYL TOLUENE		****	2.5	****	2.5
	PPBC	****	22.5	****	22.5
1,2,3 TRIMETHYL BENZENE		****	4.4	****	5.0
	PPBC	****	39.6	****	45.0
PAN		****	14.2	****	13.5
	PPBC	****	28.4	****	27.0
FORMALDEHYDE		****	195	****	196
	PPBC	****	195	****	196
3P COL., 2 MIN 40 SEC		****	328	****	340
3P COL., 3 MIN 10 SEC		****	26.0	****	28.0
3P COL., 4 MIN 10 SEC		****	8.0	****	8.0
3P COL., 5 MIN 00 SEC		****	****	****	****
3P COL., 5 MIN 30 SEC		****	****	****	****

Moore Business Forms, Inc.

SURROGATE RUN 54-G
GLASS CHAMBER
1974 APR 11

CLOCK TIME	1614	1615	1714	1715
ELAPSED TIME(MIN)	299	300	359	360
3P COL., 7 MIN 00 SEC	****	6.0	****	6.0
3P COL., 11 MIN 40 SEC	****	0.0	****	0.0
3P COL., 21 MIN 00 SEC	****	4.0	****	5.0
3P COL., 22 MIN 00 SEC	****	1.0	****	2.0
3P COL., 23 MIN 00 SEC	****	0.0	****	0.0
3P COL., 49 MIN 00 SEC	****	15.0	****	16.0
TOTAL HC PPBC	****	****	****	3665.4
TOTAL NON-METHANE HC	1165.8	714.6	1138.7	1005.4
TOTAL SURROGATE	1064.7	175.4	1038.4	402.8

SURROGATE RUN 55-G
GLASS CHAMBER
1974 APR 15

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		950	1003	1014	1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(MIN)		-55	-42	-31	0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)													
METHANE		572	****	574	2080	****	****	****	2080	****	****	****	2000	****	2000
	PPBC	572	****	574	2080	****	****	****	2080	****	****	****	2000	****	2000
ETHENE		1.3	****	****	20.8	****	****	****	17.6	****	****	****	16.0	****	13.6
	PPBC	2.6	****	****	41.6	****	****	****	35.2	****	****	****	32.0	****	27.2
ETHANE		7.2	****	****	45.6	****	****	****	43.2	****	****	****	41.6	****	39.2
	PPBC	14.4	****	****	91.2	****	****	****	86.4	****	****	****	83.2	****	78.4
ACETYLENE (POROPAK N)		1.8	****	****	24.8	****	****	****	22.8	****	****	****	22.0	****	20.4
	PPBC	3.6	****	****	49.6	****	****	****	45.6	****	****	****	44.0	****	40.8
PROPANE		****	1.1	****	7.4	7.3	7.3	7.3	7.2	7.1	6.9	6.8	6.8	6.8	6.8
	PPBC	****	3.3	****	22.2	21.9	21.9	21.9	21.6	21.3	20.7	20.4	20.4	20.4	20.4
PROPENE		****	0.2	****	5.2	4.9	4.7	4.4	3.8	3.5	3.2	3.0	2.6	2.2	1.7
	PPBC	****	0.6	****	15.6	14.7	14.1	13.2	11.4	10.5	9.6	9.0	7.8	6.6	5.1
ISOBUTANE		****	0.1	****	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4
	PPBC	****	0.4	****	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.6
N-BUTANE		****	0.1	****	91.2	92.0	92.0	91.2	88.0	86.4	84.8	83.2	83.2	79.2	76.0
	PPBC	****	0.4	****	365	368	368	365	352	346	339	333	333	317	304
ACETYLENE (DMS)		****	1.8	****	24.0	24.0	24.0	23.2	22.4	22.4	20.0	20.0	20.8	20.0	20.0
	PPBC	****	3.6	****	48.0	48.0	48.0	46.4	44.8	44.8	40.0	40.0	41.6	40.0	40.0
ISOPENTANE		****	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.5
	PPBC	****	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	2.0	2.5
CIS-2-BUTENE		****	0.0	****	6.6	6.0	4.6	4.0	2.8	1.6	1.0	0.6	0.4	0.0	0.0
	PPBC	****	0.0	****	26.4	24.0	18.4	16.0	11.2	6.4	4.0	2.4	1.6	0.0	0.0
N-PENTANE		****	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3
	PPBC	****	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.5
2,3-DIMETHYL BUTANE		****	0.0	****	46.8	45.6	45.6	44.8	44.0	42.4	41.4	40.0	39.6	37.6	36.0
	PPBC	****	0.0	****	281	274	274	269	264	254	248	240	238	226	216
2-METHYL BUTENE-2		****	0.0	****	5.7	5.0	3.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	****	0.0	****	28.5	25.0	17.5	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0

Moore Business Forms, Inc.

SURROGATE RUN 55-G
GLASS CHAMBER
1974 APR 15

CLOCK TIME		950	1003	1014	1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(MIN)		-55	-42	-31	0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		0.5	****	****	5.0	****	12.6	****	18.7	****	24.4	****	25.6	24.0	24.4
	PPBC	1.0	****	****	10.0	****	25.2	****	37.4	****	48.8	****	51.2	48.0	48.8
PROPIONALDEHYDE		0.6	****	****	0.6	****	0.8	****	1.2	****	1.2	****	1.6	1.6	2.0
	PPBC	1.8	****	****	1.8	****	2.4	****	3.6	****	3.6	****	4.8	4.8	6.0
ACETONE		3.2	****	****	9.4	****	16.8	****	40.0	****	43.2	****	96.0	69.6	51.2
	PPBC	9.6	****	****	28.2	****	50.4	****	120	****	130	****	288	209	154
BENZENE		0.8	****	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	4.8	****	****	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.4	****	****	0.5	****	****	****	1.4	****	1.5	****	2.0	3.2	3.2
	PPBC	1.6	****	****	2.0	****	****	****	5.6	****	6.0	****	8.0	12.8	12.8
TOLUENE		1.1	****	****	8.8	****	8.8	****	8.8	****	8.4	****	8.4	8.4	8.4
	PPBC	7.7	****	****	61.6	****	61.6	****	61.6	****	58.8	****	58.8	58.8	58.8
PARA-XYLENE		7.7	****	****	6.8	****	6.2	****	6.4	****	4.5	****	5.4	6.0	5.2
	PPBC	61.6	****	****	54.4	****	49.6	****	51.2	****	36.0	****	43.2	48.0	41.6
META-XYLENE		0.3	****	****	20.4	****	19.0	****	18.0	****	14.8	****	13.6	12.4	10.6
	PPBC	2.4	****	****	163	****	152	****	144	****	118	****	109	99.2	84.8
N-PROPYL BENZENE		1.1	****	****	0.3	****	0.2	****	0.1	****	0.1	****	0.1	0.1	0.1
	PPBC	9.9	****	****	2.7	****	1.8	****	0.9	****	0.9	****	0.9	0.9	0.9
META-ETHYL TOLUENE		2.2	****	****	1.8	****	2.0	****	2.4	****	1.8	****	2.2	2.6	2.6
	PPBC	19.8	****	****	16.2	****	18.0	****	21.6	****	16.2	****	19.8	23.4	23.4
1,2,3 TRIMETHYL BENZENE		4.0	****	****	4.5	****	5.0	****	4.0	****	3.6	****	4.2	4.5	5.0
	PPBC	36.0	****	****	40.5	****	45.0	****	36.0	****	32.4	****	37.8	40.5	45.0
PAN		****	****	****	0.0	****	0.0	****	1.4	****	1.4	****	2.1	2.7	3.2
	PPBC	****	****	****	0.0	****	0.0	****	2.8	****	2.8	****	4.2	5.4	6.4
FORMALDEHYDE		****	****	****	56.0	****	90.0	****	121	****	163	****	173	187	193
	PPBC	****	****	****	56.0	****	90.0	****	121	****	163	****	173	187	193
3P COL. 2 MIN 40 SEC		30.0	****	****	38.0	****	69.0	****	131	****	178	****	220	266	304
	PPBC	30.0	****	****	38.0	****	69.0	****	131	****	178	****	220	266	304
3P COL., 3 MIN 10 SEC		0.0	****	****	24.0	****	19.0	****	22.0	****	20.0	****	18.0	20.0	18.0
3P COL., 4 MIN 10 SEC		1.0	****	****	7.0	****	****	****	****	****	****	****	****	16.0	16.0
3P COL., 5 MIN 00 SEC		8.0	****	****	6.0	****	37.0	****	36.0	****	36.0	****	56.0	****	****
3P COL., 5 MIN 30 SEC		0.0	****	****	41.0	****	****	****	34.0	****	18.0	****	22.0	36.0	22.0
3P COL., 21 MIN 00 SEC		7.0	****	****	0.0	****	1.0	****	2.0	****	2.0	****	3.0	5.0	4.0

SURROGATE RUN 55-G
GLASS CHAMBER
1974 APR 15

CLOCK TIME	950	1003	1014	1045	1115	1145	1215	1245	1315	1345	1415	1445	1545	1645
ELAPSED TIME(MIN)	-55	-42	-31	0	30	60	90	120	150	180	210	240	300	360
3P COL., 23 MIN 00 SEC	5.0	****	****	4.0	****	4.0	****	3.0	****	2.0	****	2.0	3.0	3.0
3P COL., 42 MIN 00 SEC	2.0	****	****	0.0	****	1.0	****	1.0	****	1.0	****	1.0	1.0	1.0
3P COL., 49 MIN 00 SEC	14.0	****	****	6.0	****	6.0	****	9.0	****	8.0	****	14.0	15.0	18.0
TOTAL HC PPBC	748.8	****	574.0	3436.9	****	****	****	3517.1	****	****	****	3560.5	****	3372.2
TOTAL NON-METHANE HC	176.8	8.3	0.0	1356.9	775.6	1257.9	741.5	1437.1	683.4	1278.8	647.9	1560.5	1351.2	1372.2
TOTAL SURROGATE	30.7	4.3	****	1144.7	727.2	927.1	694.7	1036.6	638.2	799.1	604.6	925.8	727.4	835.1

Moore Business Forms, Inc

SURROGATE RUN 56-G
GLASS CHAMBER
1974 APR 16

1000 DMS AND PORAPAK N VALUES LOW, SHOULD BE INCREASED BY FACTOR OF
1.25 AND 1.06, RESPECTIVELY

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		915	1000	1030	1100
ELAPSED TIME(MIN)		-45	0	30	60
		CONCENTRATIONS (PPB)			
METHANE		588	2100	****	2100
	PPBC	588	2100	****	2100
ETHENE		1.4	30.4	31.2	28.0
	PPBC	2.8	60.8	62.4	56.0
ETHANE		5.8	64.0	70.4	67.2
	PPBC	11.6	128	141	134
ACETYLENE (PORAPAK N)		1.4	37.6	40.0	38.4
	PPBC	2.8	75.2	80.0	76.8
PROPANE		1.4	9.8	12.1	12.0
	PPBC	4.2	29.4	36.3	36.0
PROPENE		0.2	7.0	7.0	6.4
	PPBC	0.6	21.0	21.0	19.2
ISOBUTANE		0.1	0.3	0.4	0.4
	PPBC	0.4	1.2	1.6	1.6
N-BUTANE		0.4	126	152	147
	PPBC	1.6	504	608	588
ACETYLENE (DMS)		1.4	32.0	40.0	38.4
	PPBC	2.8	64.0	80.0	76.8
TRANS-2-BUTENE		0.0	0.3	0.0	0.0
	PPBC	0.0	1.2	0.0	0.0
ISOPENTANE		0.3	****	****	0.4
	PPBC	1.5	****	****	2.0
CIS-2-BUTENE		0.0	9.0	5.8	2.0
	PPBC	0.0	36.0	23.2	8.0
2,3-DIMETHYL BUTANE		0.0	63.6	74.0	70.8
	PPBC	0.0	382	444	425
2-METHYL BUTENE-2		0.0	8.8	3.0	0.0
	PPBC	0.0	44.0	15.0	0.0

SURROGATE RUN 56-G
GLASS CHAMBER
1974 APR 16

CLOCK TIME		915	1000	1030	1100
ELAPSED TIME(MIN)		-45	0	30	60
ACETALDEHYDE		0.6	4.8	****	40.4
	PPBC	1.2	9.6	****	80.8
PROPIONALDEHYDE		0.8	0.6	****	1.6
	PPBC	2.4	1.8	****	4.8
ACETONE		1.4	12.4	****	28.8
	PPBC	4.2	37.2	****	86.4
BENZENE		0.7	0.1	****	0.0
	PPBC	4.2	0.6	****	0.0
METHYL ETHYL KETONE		0.2	1.0	****	1.6
	PPBC	0.8	4.0	****	6.4
TOLUENE		0.8	14.4	****	13.6
	PPBC	5.6	101	****	95.2
PARA-XYLENE		0.0	2.8	****	4.0
	PPBC	0.0	22.4	****	32.0
META-XYLENE		7.4	34.4	****	24.8
	PPBC	59.2	275	****	198
ORTHO-XYLENE		0.0	0.0	****	0.2
	PPBC	0.0	0.0	****	1.6
N-PROPYL BENZENE		0.9	0.1	****	0.1
	PPBC	8.1	0.9	****	0.9
META-ETHYL TOLUENE		3.4	2.0	****	2.0
	PPBC	30.6	18.0	****	18.0
1,2,3 TRIMETHYL BENZENE		6.0	2.2	****	4.4
	PPBC	54.0	19.8	****	39.6
PAN		****	0.0	****	8.2
	PPBC	****	0.0	****	16.4
FORMALDEHYDE		****	43.0	****	77.0
	PPBC	****	43.0	****	77.0
3P COL., 2 MIN 40 SEC		19.0	38.0	****	88.0
3P COL., 3 MIN 10 SEC		0.0	42.0	****	36.0
3P COL., 4 MIN 10 SEC		2.0	****	****	4.0
3P COL., 5 MIN 00 SEC		14.0	10.0	****	16.0
3P COL., 5 MIN 30 SEC		6.0	21.0	****	0.0

Moore Business Forms, Inc.

SURROGATE RUN 56-G
GLASS CHAMBER
1974 APR 16

CLOCK TIME	915	1000	1030	1100
ELAPSED TIME(MIN)	-45	0	30	60
3P COL., 7 MIN 00 SEC	4.0	0.0	****	4.0
3P COL., 11 MIN 40 SEC	3.0	0.0	****	0.0
3P COL., 20 MIN 30 SEC	7.0	0.0	****	0.0
3P COL., 23 MIN 00 SEC	10.0	2.0	****	3.0
3P COL., 42 MIN 00 SEC	2.0	1.0	****	1.0
3P COL., 49 MIN 00 SEC	19.0	3.0	****	5.0
TOTAL HC PPBC	783.8	3910.1	****	4104.3
TOTAL NON-METHANE HC	195.8	1810.1	1432.3	2004.3
TOTAL SURROGATE	88.4	1651.6	1430.7	1636.8

Moore Business Forms, Inc.

SURROGATE RUN 57-G
GLASS CHAMBER
1974 APR 16

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1405	1515	1545	1615
ELAPSED TIME(MIN)		-70	0	30	60
		CONCENTRATIONS (PPB)			
METHANE		672	2080	****	2110
	PPBC	672	2080	****	2110
ETHENE		1.4	32.0	30.4	28.0
	PPBC	2.8	64.0	60.8	56.0
ETHANE		6.7	67.2	68.0	68.0
	PPBC	13.4	134	136	136
ACETYLENE (POROPAK N)		1.7	39.2	40.0	39.2
	PPBC	3.4	78.4	80.0	78.4
PROPANE		1.4	12.0	11.9	11.8
	PPBC	4.2	36.0	35.7	35.4
PROPENE		0.2	8.6	6.9	5.5
	PPBC	0.6	25.8	20.7	16.5
ISOBUTANE		0.0	0.3	0.3	0.3
	PPBC	0.0	1.2	1.2	1.2
N-BUTANE		0.4	157	152	147
	PPBC	1.6	628	608	588
ACETYLENE (DMS)		1.6	38.4	38.4	38.4
	PPBC	3.2	76.8	76.8	76.8
TRANS-2-BUTENE		0.0	0.5	0.0	0.0
	PPBC	0.0	2.0	0.0	0.0
CIS-2-BUTENE		0.0	11.0	5.6	2.0
	PPBC	0.0	44.0	22.4	8.0
2,3-DIMETHYL BUTANE		0.0	80.0	75.6	72.8
	PPBC	0.0	480	454	437
2-METHYL BUTENE-2		0.0	11.0	2.0	0.0
	PPBC	0.0	55.0	10.0	0.0
ACETALDEHYDE		0.5	5.9	****	35.6
	PPBC	1.0	11.8	****	71.2

SURROGATE RUN 57-G
GLASS CHAMBER
1974 APR 16

CLOCK TIME		1405	1515	1545	1615
ELAPSED TIME(MIN)		-70	0	30	60
PROPIONALDEHYDE		1.2	4.5	****	2.8
	PPBC	3.6	13.5	****	8.4
ACETONE		1.4	16.4	****	35.2
	PPBC	4.2	49.2	****	106
BENZENE		0.8	0.0	****	0.0
	PPBC	4.8	0.0	****	0.0
METHYL ETHYL KETONE		0.8	0.6	****	3.2
	PPBC	3.2	2.4	****	12.8
TOLUENE		0.2	14.2	****	13.2
	PPBC	1.4	99.4	****	92.4
PARA-XYLENE		0.0	4.0	****	6.4
	PPBC	0.0	32.0	****	51.2
META-XYLENE		6.3	33.2	****	24.8
	PPBC	50.4	266	****	198
ORTHO-XYLENE		0.2	0.0	****	0.0
	PPBC	1.6	0.0	****	0.0
N-PROPYL BENZENE		0.4	0.1	****	0.1
	PPBC	3.6	0.9	****	0.9
META-ETHYL TOLUENE		2.6	1.7	****	2.8
	PPBC	23.4	15.3	****	25.2
1,2,3 TRIMETHYL BENZENE		5.0	3.8	****	5.4
	PPBC	45.0	34.2	****	48.6
PAN		****	0.0	****	8.2
	PPBC	****	0.0	****	16.4
FORMALDEHYDE		****	75.0	****	145
	PPBC	****	75.0	****	145
3P COL., 2 MIN 40 SEC		8.0	42.0	****	98.0
3P COL., 3 MIN 10 SEC		0.0	37.0	****	38.0
3P COL., 4 MIN 10 SEC		2.0	36.0	****	32.0
3P COL., 5 MIN 00 SEC		0.0	****	****	12.0
3P COL., 5 MIN 30 SEC		0.0	12.0	****	32.0
3P COL., 7 MIN 00 SEC		18.0	0.0	****	2.0
3P COL., 11 MIN 40 SEC		3.0	0.0	****	0.0

SURROGATE RUN 57-G
GLASS CHAMBER
1974 APR 16

CLOCK TIME	1405	1515	1545	1615
ELAPSED TIME(MIN)	-70	0	30	60
3P COL., 20 MIN 30 SEC	4.0	1.0	****	2.0
3P COL., 23 MIN 00 SEC	7.0	2.0	****	3.0
3P COL., 42 MIN 00 SEC	2.0	1.0	****	1.0
3P COL., 49 MIN 00 SEC	10.0	29.0	****	20.0
TOTAL HC PPBC	840.1	4227.3	****	4241.6
TOTAL NON-METHANE HC	168.1	2147.3	1426.8	2131.6
TOTAL SURROGATE	77.7	1911.8	1425.6	1645.1

SURROGATE RUN 58-G
GLASS CHAMBER
1974 APR 17

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		930	1030	1100	1130
ELAPSED TIME(MIN)		-60	0	30	60
		CONCENTRATIONS (PPB)			
METHANE		572	2860	****	2860
	PPBC	572	2860	****	2860
ETHENE		1.2	33.6	30.4	29.6
	PPBC	2.4	67.2	60.8	59.2
ETHANE		6.8	71.2	68.0	68.0
	PPBC	13.6	142	136	136
ACETYLENE (POROPAK N)		1.0	40.0	38.4	38.4
	PPBC	2.0	80.0	76.8	76.8
PROPANE		1.3	12.0	12.0	12.0
	PPBC	3.9	36.0	36.0	36.0
PROPENE		0.2	8.8	7.1	6.0
	PPBC	0.6	26.4	21.3	18.0
ISOBUTANE		0.1	0.4	0.4	0.4
	PPBC	0.4	1.6	1.6	1.6
N-BUTANE		0.3	155	154	149
	PPBC	1.2	620	616	596
ACETYLENE (DMS)		1.0	40.0	38.4	38.4
	PPBC	2.0	80.0	76.8	76.8
TRANS-2-BUTENE		0.0	0.3	0.2	0.0
	PPBC	0.0	1.2	0.8	0.0
ISOPENTANE		0.3	****	****	****
	PPBC	1.5	****	****	****
CIS-2-BUTENE		0.0	11.2	6.4	3.0
	PPBC	0.0	44.8	25.6	12.0
N-PENTANE		0.0	0.0	0.0	0.3
	PPBC	0.0	0.0	0.0	1.5
2,3-DIMETHYL BUTANE		0.0	77.6	74.4	71.2
	PPBC	0.0	466	446	427

SURROGATE RUN 58-G
GLASS CHAMBER
1974 APR 17

CLOCK TIME		930	1030	1100	1130
ELAPSED TIME(MIN)		-60	0	30	60
2-METHYL BUTENE-2		0.0	11.0	2.0	0.0
	PPBC	0.0	55.0	10.0	0.0
ACETALDEHYDE		1.0	3.6	****	34.0
	PPBC	2.0	7.2	****	68.0
PROPIONALDEHYDE		1.5	0.8	****	1.4
	PPBC	4.5	2.4	****	4.2
ACETONE		2.2	6.3	****	26.8
	PPBC	6.6	18.9	****	80.4
BENZENE		1.1	0.0	****	0.0
	PPBC	6.6	0.0	****	0.0
METHYL ETHYL KETONE		0.2	0.8	****	2.4
	PPBC	0.8	3.2	****	9.6
TOLUENE		0.1	14.4	****	13.6
	PPBC	0.7	101	****	95.2
PARA-XYLENE		0.1	6.8	****	6.8
	PPBC	0.8	54.4	****	54.4
META-XYLENE		9.5	32.8	****	24.8
	PPBC	76.0	262	****	198
ORTHO-XYLENE		0.2	0.0	****	0.0
	PPBC	1.6	0.0	****	0.0
N-PROPYL BENZENE		0.8	0.3	****	0.2
	PPBC	7.2	2.7	****	1.8
META-ETHYL TOLUENE		4.7	3.4	****	3.2
	PPBC	42.3	30.6	****	28.8
1,2,3 TRIMETHYL BENZENE		10.0	7.0	****	6.0
	PPBC	90.0	63.0	****	54.0
PAN		****	0.0	****	6.4
	PPBC	****	0.0	****	12.8
FORMALDEHYDE		****	83.0	****	125
	PPBC	****	83.0	****	125
3P COL., 2 MIN 40 SEC		40.0	72.0	****	88.0
3P COL., 3 MIN 10 SEC		1.0	34.0	****	38.0
3P COL., 4 MIN 10 SEC		1.0	2.0	****	4.0
3P COL., 5 MIN 00 SEC		24.0	0.0	****	12.0

SURROGATE RUN 58-G
GLASS CHAMBER
1974 APR 17

CLOCK TIME	930	1030	1100	1130
ELAPSED TIME(MIN)	-60	0	30	60
3P COL., 5 MIN 30 SEC	0.0	0.0	****	32.0
3P COL., 6 MIN 10 SEC	42.0	0.0	****	0.0
3P COL., 7 MIN 00 SEC	4.0	0.0	****	0.0
3P COL., 11 MIN 40 SEC	8.0	0.0	****	0.0
3P COL., 21 MIN 00 SEC	9.0	3.0	****	1.0
3P COL., 23 MIN 00 SEC	9.0	5.0	****	3.0
3P COL., 42 MIN 00 SEC	3.0	1.0	****	1.0
3P COL., 49 MIN 00 SEC	18.0	7.0	****	5.0
TOTAL HC PPBC	836.7	5028.8	****	4956.9
TOTAL NON-METHANE HC	264.7	2168.8	1431.3	2096.9
TOTAL SURROGATE	100.4	1901.8	1429.7	1654.8

SURROGATE RUN 59-G
GLASS CHAMBER
1974 APR 17

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1430	1500	1530	1600	1630
ELAPSED TIME(MIN)		-60	-30	0	30	60
		CONCENTRATIONS (PPB)				
METHANE		864	876	2820	****	2750
	PPBC	864	876	2820	****	2750
ETHENE		0.8	****	32.0	30.4	28.8
	PPBC	1.6	****	64.0	60.8	57.6
ETHANE		6.4	****	68.0	68.0	67.2
	PPBC	12.8	****	136	136	134
ACETYLENE (POROPAK N)		1.2	****	39.2	38.4	38.4
	PPBC	2.4	****	78.4	76.8	76.8
PROPANE		1.5	****	12.0	11.9	11.9
	PPBC	4.5	****	36.0	35.7	35.7
PROPENE		0.3	****	8.6	7.2	6.2
	PPBC	0.9	****	25.8	21.6	18.6
ISOBUTANE		0.0	****	0.2	0.3	0.3
	PPBC	0.0	****	0.8	1.2	1.2
N-BUTANE		0.4	****	157	152	149
	PPBC	1.6	****	628	608	596
ACETYLENE (DMS)		1.3	****	38.4	38.4	38.4
	PPBC	2.6	****	76.8	76.8	76.8
TRANS-2-BUTENE		0.0	****	0.4	0.2	0.0
	PPBC	0.0	****	1.6	0.8	0.0
CIS-2-BUTENE		0.0	****	11.0	6.8	3.4
	PPBC	0.0	****	44.0	27.2	13.6
2,3-DIMETHYL BUTANE		0.0	****	78.0	74.4	72.4
	PPBC	0.0	****	468	446	434
2-METHYL BUTENE-2		0.0	****	10.0	3.0	0.0
	PPBC	0.0	****	50.0	15.0	0.0
ACETALDEHYDE		0.5	****	7.0	****	32.8
	PPBC	1.0	****	14.0	****	65.6

Moore Business Forms, Inc.

SURROGATE RUN 59-G
GLASS CHAMBER
1974 APR 17

CLOCK TIME		1430	1500	1530	1600	1630
ELAPSED TIME(MIN)		-60	-30	0	30	60
PROPIONALDEHYDE		1.4	****	3.9	****	2.6
	PPBC	4.2	****	11.7	****	7.8
ACETONE		26.4	****	28.0	****	43.2
	PPBC	79.2	****	84.0	****	130
BENZENE		0.0	****	0.0	****	0.0
	PPBC	0.0	****	0.0	****	0.0
METHYL ETHYL KETONE		1.0	****	1.6	****	2.0
	PPBC	4.0	****	6.4	****	8.0
TOLUENE		1.2	****	14.4	****	13.0
	PPBC	8.4	****	101	****	91.0
PARA-XYLENE		0.0	****	5.6	****	5.6
	PPBC	0.0	****	44.8	****	44.8
META-XYLENE		7.4	****	****	****	26.4
	PPBC	59.2	****	****	****	211
ORTHO-XYLENE		0.1	****	0.0	****	0.0
	PPBC	0.8	****	0.0	****	0.0
N-PROPYL BENZENE		0.4	****	0.0	****	0.0
	PPBC	3.6	****	0.0	****	0.0
META-ETHYL TOLUENE		2.9	****	1.4	****	2.7
	PPBC	26.1	****	12.6	****	24.3
1,2,3 TRIMETHYL BENZENE		6.6	****	3.4	****	5.0
	PPBC	59.4	****	30.6	****	45.0
PAN		****	****	0.0	****	5.3
	PPBC	****	****	0.0	****	10.6
FORMALDEHYDE		****	****	75.0	****	141
	PPBC	****	****	75.0	****	141
3P COL., 2 MIN 40 SEC		25.0	****	36.0	****	82.0
3P COL., 3 MIN 10 SEC		0.0	****	41.0	****	36.0
3P COL., 4 MIN 10 SEC		0.0	****	64.0	****	32.0
3P COL., 5 MIN 00 SEC		0.0	****	0.0	****	32.0
3P COL., 5 MIN 30 SEC		0.0	****	16.0	****	24.0
3P COL., 7 MIN 00 SEC		1.0	****	0.0	****	0.0
3P COL., 11 MIN 40 SEC		4.0	****	0.0	****	0.0

SURROGATE RUN 59-G
GLASS CHAMBER
1974 APR 17

CLOCK TIME	1430	1500	1530	1600	1630
ELAPSED TIME(MIN)	-60	-30	0	30	60
3P COL., 21 MIN 00 SEC	4.0	****	1.0	****	1.0
3P COL., 23 MIN 00 SEC	7.0	****	2.0	****	3.0
3P COL., 42 MIN 00 SEC	2.0	****	0.0	****	0.0
3P COL., 49 MIN 00 SEC	8.0	****	20.0	****	15.0
TOTAL HC PPBC	1133.8	876.0	4731.7	****	4897.2
TOTAL NON-METHANE HC	269.8	0.0	1911.7	1429.5	2147.2
TOTAL SURROGATE	91.5	****	1631.8	1428.3	1669.3

Moore Business Forms, Inc

SURROGATE RUN 60-G
GLASS CHAMBER
1974 APR 18

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		935	1045	1115	1145	1215
ELAPSED TIME(MIN)		-70	0	30	60	90
		CONCENTRATIONS (PPB)				
METHANE		480	1730	****	1720	****
	PPBC	480	1730	****	1720	****
ETHENE		0.6	8.6	8.0	7.6	6.8
	PPBC	1.2	17.2	16.0	15.2	13.6
ETHANE		5.0	21.0	21.2	20.8	21.4
	PPBC	10.0	42.0	42.4	41.6	42.8
ACETYLENE (POROPAK N)		0.8	10.2	10.4	10.0	10.4
	PPBC	1.6	20.4	20.8	20.0	20.8
PROPANE		1.2	3.8	3.8	3.8	3.8
	PPBC	3.6	11.4	11.4	11.4	11.4
PROPENE		0.0	2.3	1.7	1.2	0.8
	PPBC	0.0	6.9	5.1	3.6	2.4
ISOBUTANE		0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0
N-BUTANE		0.0	41.6	40.0	38.8	37.2
	PPBC	0.0	166	160	155	149
ACETYLENE (DMS)		1.0	10.4	10.4	10.0	10.4
	PPBC	2.0	20.8	20.8	20.0	20.8
TRANS-2-BUTENE		0.0	0.1	0.0	0.0	0.0
	PPBC	0.0	0.4	0.0	0.0	0.0
CIS-2-BUTENE		0.0	3.0	1.5	0.6	0.0
	PPBC	0.0	12.0	6.0	2.4	0.0
2,3-DIMETHYL BUTANE		0.0	20.0	18.8	17.5	16.6
	PPBC	0.0	120	113	105	99.6
2-METHYL BUTENE-2		0.0	2.0	0.0	0.0	0.0
	PPBC	0.0	10.0	0.0	0.0	0.0
ACETALDEHYDE		0.4	2.4	****	13.6	****
	PPBC	0.8	4.8	****	27.2	****

SURROGATE RUN 60-G
GLASS CHAMBER
1974 APR 18

CLOCK TIME		935	1045	1115	1145	1215
ELAPSED TIME(MIN)		-70	0	30	60	90
PROPIONALDEHYDE		1.4	1.6	****	1.7	****
	PPBC	4.2	4.8	****	5.1	****
ACETONE		2.2	3.1	****	13.6	****
	PPBC	6.6	9.3	****	40.8	****
BENZENE		0.8	0.9	****	0.0	****
	PPBC	4.8	5.4	****	0.0	****
METHYL ETHYL KETONE		0.4	****	****	1.2	****
	PPBC	1.6	****	****	4.8	****
TOLUENE		1.2	3.8	****	3.6	****
	PPBC	8.4	26.6	****	25.2	****
PARA-XYLENE		0.0	1.4	****	4.4	****
	PPBC	0.0	11.2	****	35.2	****
META-XYLENE		10.5	8.4	****	5.8	****
	PPBC	84.0	67.2	****	46.4	****
ORTHO-XYLENE		0.2	0.0	****	0.0	****
	PPBC	1.6	0.0	****	0.0	****
N-PROPYL BENZENE		0.8	0.2	****	0.1	****
	PPBC	7.2	1.8	****	0.9	****
META-ETHYL TOLUENE		4.7	1.0	****	2.0	****
	PPBC	42.3	9.0	****	18.0	****
1,2,3 TRIMETHYL BENZENE		10.0	2.2	****	4.0	****
	PPBC	90.0	19.8	****	36.0	****
PAN		****	0.0	****	1.4	****
	PPBC	****	0.0	****	2.8	****
FORMALDEHYDE		****	51.0	****	102	****
	PPBC	****	51.0	****	102	****
3P COL., 2 MIN 40 SEC		22.0	46.0	****	90.0	****
3P COL., 3 MIN 10 SEC		0.0	6.0	****	6.0	****
3P COL., 4 MIN 10 SEC		3.0	****	****	18.0	****
3P COL., 5 MIN 00 SEC		20.0	****	****	18.0	****
3P COL., 5 MIN 30 SEC		0.0	0.0	****	18.0	****
3P COL., 7 MIN 00 SEC		2.0	0.0	****	1.0	****
3P COL., 11 MIN 40 SEC		10.0	0.0	****	0.0	****

SURROGATE RUN 60-G
GLASS CHAMBER
1974 APR 18

CLOCK TIME	935	1045	1115	1145	1215
ELAPSED TIME(MIN)	-70	0	30	60	90
3P COL., 21 MIN 00 SEC	8.0	0.0	****	1.0	****
3P COL., 23 MIN 00 SEC	8.0	0.0	****	3.0	****
3P COL., 42 MIN 00 SEC	4.0	0.0	****	0.0	****
3P COL., 49 MIN 00 SEC	14.0	4.0	****	5.0	****
TOTAL HC PPBC	748.1	2347.8	****	2418.8	****
TOTAL NON-METHANE HC	268.1	617.8	374.5	698.8	339.4
TOTAL SURROGATE	109.0	500.7	374.5	426.0	339.4

SURROGATE RUN 61-G
GLASS CHAMBER
1974 APR 18

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1500	1600	1630	1700	1730
ELAPSED TIME(MIN)		-60	0	30	60	90
		CONCENTRATIONS (PPB)				
METHANE		608	1730	****	1710	****
	PPBC	608	1730	****	1710	****
ETHENE		0.7	8.8	8.0	7.2	6.4
	PPBC	1.4	17.6	16.0	14.4	12.8
ETHANE		5.2	21.6	21.6	20.8	20.4
	PPBC	10.4	43.2	43.2	41.6	40.8
ACETYLENE (POROPAK N)		1.0	10.4	10.8	10.2	10.0
	PPBC	2.0	20.8	21.6	20.4	20.0
PROPANE		1.3	4.0	3.9	3.9	3.9
	PPBC	3.9	12.0	11.7	11.7	11.7
PROPENE		0.1	2.3	1.7	1.2	0.9
	PPBC	0.3	6.9	5.1	3.6	2.7
ISOBUTANE		0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	0.0	0.0	0.0	0.0
N-BUTANE		0.2	40.8	39.2	38.4	36.4
	PPBC	0.8	163	157	154	146
ACETYLENE (DMS)		1.0	10.4	10.8	10.0	10.0
	PPBC	2.0	20.8	21.6	20.0	20.0
CIS-2-BUTENE		0.0	3.0	1.6	0.5	0.0
	PPBC	0.0	12.0	6.4	2.0	0.0
2,3-DIMETHYL BUTANE		0.0	20.1	19.2	18.4	16.2
	PPBC	0.0	121	115	110	97.2
2-METHYL BUTENE-2		0.0	2.4	0.0	0.0	0.0
	PPBC	0.0	12.0	0.0	0.0	0.0
ACETALDEHYDE		0.5	4.8	****	15.0	****
	PPBC	1.0	9.6	****	30.0	****
PROPIONALDEHYDE		1.5	1.1	****	1.6	****
	PPBC	4.5	3.3	****	4.8	****

Moore Business Forms, Inc.

SURROGATE RUN 61-G
GLASS CHAMBER
1974 APR 18

CLOCK TIME		1500	1600	1630	1700	1730
ELAPSED TIME(MIN)		-60	0	30	60	90
ACETONE		4.4	11.2	****	18.0	****
	PPBC	13.2	33.6	****	54.0	****
BENZENE		0.0	0.0	****	0.0	****
	PPBC	0.0	0.0	****	0.0	****
METHYL ETHYL KETONE		0.5	0.8	****	1.4	****
	PPBC	2.0	3.2	****	5.6	****
TOLUENE		1.2	3.8	****	3.8	****
	PPBC	8.4	26.6	****	26.6	****
PARA-XYLENE		0.0	6.2	****	6.4	****
	PPBC	0.0	49.6	****	51.2	****
META-XYLENE		6.8	8.6	****	6.0	****
	PPBC	54.4	68.8	****	48.0	****
N-PROPYL BENZENE		0.2	0.1	****	0.1	****
	PPBC	1.8	0.9	****	0.9	****
META-ETHYL TOLUENE		2.7	2.4	****	3.0	****
	PPBC	24.3	21.6	****	27.0	****
1,2,3 TRIMETHYL BENZENE		5.0	4.0	****	5.0	****
	PPBC	45.0	36.0	****	45.0	****
PAN		****	0.0	****	1.4	****
	PPBC	****	0.0	****	2.8	****
FORMALDEHYDE		****	78.0	****	137	****
	PPBC	****	78.0	****	137	****
3P COL., 2 MIN 40 SEC		22.0	42.0	****	82.0	****
3P COL., 3 MIN 10 SEC		****	8.0	****	8.0	****
3P COL., 4 MIN 10 SEC		3.0	14.0	****	20.0	****
3P COL., 5 MIN 00 SEC		16.0	0.0	****	53.0	****
3P COL., 5 MIN 30 SEC		2.0	26.0	****	34.0	****
3P COL., 7 MIN 00 SEC		2.0	2.0	****	2.0	****
3P COL., 11 MIN 40 SEC		8.0	0.0	****	0.0	****
3P COL., 21 MIN 00 SEC		4.0	1.0	****	1.0	****
3P COL., 23 MIN 00 SEC		7.0	5.0	****	3.0	****
3P COL., 42 MIN 00 SEC		2.0	2.0	****	2.0	****

SURROGATE RUN 61-G
GLASS CHAMBER
1974 APR 18

CLOCK TIME	1500	1600	1630	1700	1730
ELAPSED TIME(MIN)	-60	0	30	60	90
3P COL., 49 MIN 00 SEC	6.0	6.0	****	9.0	****
TOTAL HC PPBC	781.4	2469.5	****	2500.4	****
TOTAL NON-METHANE HC	173.4	739.5	376.0	790.4	330.8
TOTAL SURROGATE	81.6	503.7	376.0	432.1	330.8

Moore Business Forms, Inc.

SURROGATE RUN 62-G
GLASS CHAMBER
1974 APR 22

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1012	1115	1145	1215	1245	1315	1345	1415	1445	1515	1615	1715
ELAPSED TIME(MIN)		-63	0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)											
METHANE		608	1700	****	1710	****	1700	****	1700	****	1710	1730	1730
	PPBC	608	1700	****	1710	****	1700	****	1700	****	1710	1730	1730
ETHENE		0.5	8.8	****	7.6	****	6.4	****	5.6	****	5.2	4.8	4.4
	PPBC	1.0	17.6	****	15.2	****	12.8	****	11.2	****	10.4	9.6	8.8
ETHANE		3.6	20.0	****	20.0	****	18.4	****	19.2	****	19.6	19.8	19.6
	PPBC	7.2	40.0	****	40.0	****	36.8	****	38.4	****	39.2	39.6	39.2
ACETYLENE (POROPAK N)		1.0	10.4	****	10.4	****	9.6	****	9.6	****	9.6	9.6	9.2
	PPBC	2.0	20.8	****	20.8	****	19.2	****	19.2	****	19.2	19.2	18.4
PROPANE		1.3	4.2	4.1	4.1	4.1	4.0	4.0	4.0	4.2	4.2	4.4	4.8
	PPBC	3.9	12.6	12.3	12.3	12.3	12.0	12.0	12.0	12.6	12.6	13.2	14.4
PROPENE		0.0	2.3	1.8	1.4	1.3	0.9	0.7	0.6	0.4	0.3	0.2	0.1
	PPBC	0.0	6.9	5.4	4.2	3.9	2.7	2.1	1.8	1.2	0.9	0.6	0.3
ISOBUTANE		0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.7
	PPBC	0.0	0.4	0.4	0.4	0.8	1.2	1.2	1.2	1.6	1.6	2.0	2.8
N-BUTANE		0.2	39.2	39.6	38.8	37.2	36.4	35.2	34.4	32.8	32.4	31.2	29.6
	PPBC	0.8	157	158	155	149	146	141	138	131	130	125	118
ACETYLENE (DMS)		1.0	10.4	10.4	10.4	10.0	9.6	9.6	9.6	9.6	9.6	9.6	9.2
	PPBC	2.0	20.8	20.8	20.8	20.0	19.2	19.2	19.2	19.2	19.2	19.2	18.4
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9	1.0	0.9	1.1
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.5	5.0	4.5	5.5
CIS-2-BUTENE		0.0	2.9	2.0	1.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	11.6	8.0	4.0	2.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.3	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.5	1.5	2.5
2,3-DIMETHYL BUTANE		0.0	19.6	18.6	17.4	16.5	15.6	15.0	14.2	13.2	12.4	11.4	10.4
	PPBC	0.0	118	112	104	99.0	93.6	90.0	85.2	79.2	74.4	68.4	62.4
2-METHYL BUTENE-2		0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 62-G
GLASS CHAMBER
1974 APR 22

CLOCK TIME		1012	1115	1145	1215	1245	1315	1345	1415	1445	1515	1615	1715
ELAPSED TIME(MIN)		-63	0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		****	4.5	****	17.0	****	19.6	****	19.8	****	19.6	19.6	15.2
	PPBC	****	9.0	****	34.0	****	39.2	****	39.6	****	39.2	39.2	30.4
PROPIONALDEHYDE		1.6	0.8	****	1.5	****	2.0	****	2.6	****	3.2	3.6	3.6
	PPBC	4.8	2.4	****	4.5	****	6.0	****	7.8	****	9.6	10.8	10.8
ACETONE		5.8	6.6	****	19.2	****	23.8	****	32.0	****	36.0	41.6	30.4
	PPBC	17.4	19.8	****	57.6	****	71.4	****	96.0	****	108	125	91.2
BENZENE		0.8	0.1	****	0.0	****	0.7	****	****	****	****	****	****
	PPBC	4.8	0.6	****	0.0	****	4.2	****	****	****	****	****	****
METHYL ETHYL KETONE		0.4	0.6	****	2.0	****	2.6	****	4.0	****	4.4	5.0	5.0
	PPBC	1.6	2.4	****	8.0	****	10.4	****	16.0	****	17.6	20.0	20.0
TOLUENE		2.0	4.6	****	4.6	****	4.2	****	4.4	****	4.4	4.4	****
	PPBC	14.0	32.2	****	32.2	****	29.4	****	30.8	****	30.8	30.8	****
PARA-XYLENE		0.0	6.4	****	8.8	****	8.1	****	8.3	****	8.1	8.3	7.8
	PPBC	0.0	51.2	****	70.4	****	64.8	****	66.4	****	64.8	66.4	62.4
META-XYLENE		10.4	8.8	****	7.4	****	5.3	****	4.2	****	3.2	2.6	2.3
	PPBC	83.2	70.4	****	59.2	****	42.4	****	33.6	****	25.6	20.8	18.4
N-PROPYL BENZENE		2.0	0.5	****	0.2	****	0.2	****	0.2	****	0.2	0.2	0.2
	PPBC	18.0	4.5	****	1.8	****	1.8	****	1.8	****	1.8	1.8	1.8
META-ETHYL TOLUENE		5.4	2.4	****	4.5	****	4.5	****	5.0	****	5.5	5.5	6.0
	PPBC	48.6	21.6	****	40.5	****	40.5	****	45.0	****	49.5	49.5	54.0
1,2,3 TRIMETHYL BENZENE		9.6	7.4	****	8.2	****	8.2	****	8.5	****	8.5	9.0	9.0
	PPBC	86.4	66.6	****	73.8	****	73.8	****	76.5	****	76.5	81.0	81.0
PAN		****	0.0	****	0.7	****	****	3.0	4.3	****	6.4	7.3	8.2
	PPBC	****	0.0	****	1.4	****	****	6.0	8.6	****	12.8	14.6	16.4
FORMALDEHYDE		****	69.0	****	109	****	131	****	160	****	****	146	167
	PPBC	****	69.0	****	109	****	131	****	160	****	****	146	167
3P COL. 2 MIN 40 SEC		36.0	64.0	****	119	****	168	****	212	****	262	306	352
	PPBC	36.0	64.0	****	119	****	168	****	212	****	262	306	352
3P COL., 3 MIN 10 SEC		0.0	10.0	****	8.0	****	8.0	****	8.0	****	8.0	4.0	4.0
3P COL., 3 MIN 20 SEC		0.0	26.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	98.0
3P COL., 4 MIN 10 SEC		4.0	8.0	****	8.0	****	4.0	****	****	****	****	8.0	4.0
3P COL., 5 MIN 00 SEC		22.0	2.0	****	32.0	****	52.0	****	86.0	****	52.0	****	****
3P COL., 5 MIN 30 SEC		0.0	52.0	****	61.0	****	54.0	****	52.0	****	64.0	60.0	****

SURROGATE RUN 62-G
GLASS CHAMBER
1974 APR 22

CLOCK TIME	1012	1115	1145	1215	1245	1315	1345	1415	1445	1515	1615	1715
ELAPSED TIME(MIN)	-63	0	30	60	90	120	150	180	210	240	300	360
3P COL., 11 MIN 30 SEC	16.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 21 MIN 00 SEC	15.0	0.0	****	1.0	****	2.0	****	2.0	****	3.0	3.0	5.0
3P COL., 22 MIN 30 SEC	6.0	1.0	****	1.0	****	2.0	****	1.0	****	2.0	2.0	3.0
3P COL., 29 MIN 20 SEC	2.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 42 MIN 00 SEC	2.0	1.0	****	1.0	****	1.0	****	1.0	****	1.0	1.0	1.0
3P COL., 49 MIN 00 SEC	10.0	3.0	****	5.0	****	8.0	****	10.0	****	13.0	22.0	24.0
TOTAL HC PPBC	901.7	2446.0	****	2558.9	****	2540.4	****	2591.7	****	2440.6	2619.1	2556.1
TOTAL NON-METHANE HC	293.7	746.0	316.9	848.9	287.6	840.4	274.3	891.7	250.5	730.6	889.1	826.1
TOTAL SURROGATE	112.1	498.5	295.7	447.5	266.8	396.1	244.9	369.8	224.2	342.7	327.0	280.3

SURROGATE RUN 63-G
GLASS CHAMBER
1974 APR 23

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		920	1015	1045	1115
ELAPSED TIME(MIN)		-55	0	30	60
		CONCENTRATIONS (PPB)			
METHANE		632	2670	****	2640
	PPBC	632	2670	****	2640
ETHENE		1.0	40.0	36.8	33.6
	PPBC	2.0	80.0	73.6	67.2
ETHANE		3.8	81.6	81.6	76.8
	PPBC	7.6	163	163	154
ACETYLENE (POROPAK N)		1.6	51.2	51.2	46.4
	PPBC	3.2	102	102	92.8
PROPANE		1.4	14.8	14.4	14.4
	PPBC	4.2	44.4	43.2	43.2
PROPENE		0.1	11.2	8.7	6.9
	PPBC	0.3	33.6	26.1	20.7
ISOBUTANE		0.1	0.4	0.4	0.5
	PPBC	0.4	1.6	1.6	2.0
N-BUTANE		0.2	202	198	192
	PPBC	0.8	808	792	768
ACETYLENE (DMS)		1.6	51.2	51.2	46.4
	PPBC	3.2	102	102	92.8
TRANS-2-BUTENE		0.0	0.5	0.0	0.0
	PPBC	0.0	2.0	0.0	0.0
CIS-2-BUTENE		0.0	14.4	7.4	2.5
	PPBC	0.0	57.6	29.6	10.0
2,3-DIMETHYL BUTANE		0.0	97.6	89.6	88.8
	PPBC	0.0	586	538	533
2-METHYL BUTENE-2		0.0	13.4	2.4	0.0
	PPBC	0.0	67.0	12.0	0.0
3-METHYL PENTANE		15.5	0.0	0.0	0.0
	PPBC	93.0	0.0	0.0	0.0

SURROGATE RUN 63-G
GLASS CHAMBER
1974 APR 23

CLOCK TIME		920	1015	1045	1115
ELAPSED TIME(MIN)		-55	0	30	60
ACETALDEHYDE		****	5.8	****	49.6
	PPBC	****	11.6	****	99.2
PROPIONALDEHYDE		1.4	0.7	****	1.6
	PPBC	4.2	2.1	****	4.8
ACETONE		2.0	8.9	****	33.6
	PPBC	6.0	26.7	****	101
BENZENE		1.1	0.1	****	0.0
	PPBC	6.6	0.6	****	0.0
METHYL ETHYL KETONE		0.5	1.8	****	3.2
	PPBC	2.0	7.2	****	12.8
TOLUENE		1.4	17.8	****	16.0
	PPBC	9.8	125	****	112
ETHYL BENZENE		0.0	0.0	****	0.1
	PPBC	0.0	0.0	****	0.8
PARA-XYLENE		9.8	6.4	****	6.2
	PPBC	78.4	51.2	****	49.6
META-XYLENE		0.0	41.6	****	26.4
	PPBC	0.0	333	****	211
N-PROPYL BENZENE		1.0	****	****	0.0
	PPBC	9.0	****	****	0.0
META-ETHYL TOLUENE		5.8	3.2	****	1.4
	PPBC	52.2	28.8	****	12.6
1,2,3 TRIMETHYL BENZENE		13.0	6.0	****	7.0
	PPBC	117	54.0	****	63.0
PAN		****	0.0	****	7.8
	PPBC	****	0.0	****	15.6
FORMALDEHYDE		****	40.0	****	93.0
	PPBC	****	40.0	****	93.0
3P COL., 2 MIN 40 SEC		24.0	28.0	****	56.0
3P COL., 3 MIN 10 SEC		0.0	51.0	****	48.0
3P COL., 4 MIN 10 SEC		2.0	4.0	****	8.0
3P COL., 5 MIN 00 SEC		22.0	24.0	****	16.0
3P COL., 5 MIN 30 SEC		1.0	36.0	****	24.0

SURROGATE RUN 63-G
GLASS CHAMBER
1974 APR 23

CLOCK TIME	920	1015	1045	1115
ELAPSED TIME(MIN)	-55	0	30	60
3P COL., 6 MIN 30 SEC	2.0	0.0	****	0.0
3P COL., 7 MIN 00 SEC	2.0	0.0	****	0.0
3P COL., 11 MIN 40 SEC	14.0	0.0	****	0.0
3P COL., 21 MIN 00 SEC	11.0	0.0	****	0.0
3P COL., 23 MIN 00 SEC	7.0	3.0	****	3.0
3P COL., 42 MIN 00 SEC	3.0	0.0	****	1.0
3P COL., 49 MIN 00 SEC	18.0	7.0	****	6.0
TOTAL HC PPBC	1028.7	5295.0	****	5105.7
TOTAL NON-METHANE HC	396.7	2625.0	1781.3	2465.7
TOTAL SURROGATE	27.9	2401.2	1779.7	2011.5

SURROGATE RUN 64-G
GLASS CHAMBER
1974 APR 23

1730 FORMALDEHYDE TAKEN 1703 TO 1728

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1510	1600	1630	1700	1730
ELAPSED TIME(MIN)		-50	0	30	60	90
		CONCENTRATIONS (PPB)				
METHANE		480	2100	****	2130	****
	PPBC	480	2100	****	2130	****
ETHENE		1.4	20.0	****	17.6	****
	PPBC	2.8	40.0	****	35.2	****
ETHANE		3.0	42.4	****	40.8	****
	PPBC	6.0	84.8	****	81.6	****
ACETYLENE (POROPAK N)		2.5	25.6	****	24.0	****
	PPBC	5.0	51.2	****	48.0	****
PROPANE		1.2	7.8	7.6	7.6	7.4
	PPBC	3.6	23.4	22.8	22.8	22.2
PROPENE		0.1	5.4	4.4	3.2	2.4
	PPBC	0.3	16.2	13.2	9.6	7.2
ISOBUTANE		0.0	0.1	0.1	0.1	0.1
	PPBC	0.0	0.4	0.4	0.4	0.4
N-BUTANE		0.4	97.6	97.6	92.8	89.6
	PPBC	1.6	390	390	371	358
ACETYLENE (DMS)		2.5	26.4	25.6	25.6	25.6
	PPBC	5.0	52.8	51.2	51.2	51.2
TRANS-2-BUTENE		0.0	0.3	0.0	0.0	0.0
	PPBC	0.0	1.2	0.0	0.0	0.0
CIS-2-BUTENE		0.0	7.2	4.4	1.6	0.5
	PPBC	0.0	28.8	17.6	6.4	2.0
2,3-DIMETHYL BUTANE		0.0	48.8	43.2	41.2	40.0
	PPBC	0.0	293	259	247	240
2-METHYL BUTENE-2		0.0	6.6	2.4	0.0	0.0
	PPBC	0.0	33.0	12.0	0.0	0.0
ACETALDEHYDE		****	6.4	****	29.2	****
	PPBC	****	12.8	****	58.4	****

SURROGATE RUN 64-G
GLASS CHAMBER
1974 APR 23

CLOCK TIME		1510	1600	1630	1700	1730
ELAPSED TIME(MIN)		-50	0	30	60	90
PROPIONALDEHYDE		1.0	0.4	****	1.2	****
	PPBC	3.0	1.2	****	3.6	****
ACETONE		1.4	12.0	****	25.6	****
	PPBC	4.2	36.0	****	76.8	****
BENZENE		0.8	0.0	****	0.0	****
	PPBC	4.8	0.0	****	0.0	****
METHYL ETHYL KETONE		0.0	0.6	****	4.8	****
	PPBC	0.0	2.4	****	19.2	****
TOLUENE		0.8	8.4	****	8.0	****
	PPBC	5.6	58.8	****	56.0	****
PARA-XYLENE		5.0	3.2	****	5.6	****
	PPBC	40.0	25.6	****	44.8	****
META-XYLENE		0.0	20.0	****	14.0	****
	PPBC	0.0	160	****	112	****
META-ETHYL TOLUENE		0.8	0.5	****	2.8	****
	PPBC	7.2	4.5	****	25.2	****
1,2,3 TRIMETHYL BENZENE		4.6	1.6	****	5.6	****
	PPBC	41.4	14.4	****	50.4	****
PAN		****	0.0	****	3.4	****
	PPBC	****	0.0	****	6.8	****
FORMALDEHYDE		****	51.0	****	****	143
	PPBC	****	51.0	****	****	143
3P COL., 2 MIN 40 SEC		20.0	28.0	****	20.0	****
3P COL., 3 MIN 10 SEC		0.0	25.0	****	22.0	****
3P COL., 4 MIN 10 SEC		0.0	2.0	****	3.0	****
3P COL., 4 MIN 50 SEC		11.0	0.0	****	0.0	****
3P COL., 11 MIN 40 SEC		4.0	0.0	****	0.0	****
3P COL., 14 MIN 40 SEC		4.0	0.0	****	3.0	****
3P COL., 23 MIN 00 SEC		5.0	0.0	****	6.0	****
3P COL., 49 MIN 00 SEC		6.0	8.0	****	13.0	****
TOTAL HC PPBC		605.5	3429.7	****	3407.2	****
TOTAL NON-METHANE HC		125.5	1329.7	766.8	1277.2	824.4
TOTAL SURROGATE		24.9	1181.4	715.2	991.6	629.8

SURROGATE RUN 65-G
GLASS CHAMBER
1974 APR 24

ETHANE ADDED INSTEAD OF METHANE, ABOUT 1600 PPB
HIGH ETHENE BACKGROUND DUE TO UNVENTED OPERATION OF MELOY OZONE ANALYZER
VENTED ABOUT 0945; 0950,1100(2ND) AND 1200 SAMPLES ARE ROOM AIR

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		925	950	1010	1030	1100	1100	1130	1200
ELAPSED TIME(MIN)		-65	-40	-20	0	30	30	60	90
		CONCENTRATIONS (PPB)							
METHANE		420	****	****	496	****	****	504	****
	PPBC	420	****	****	496	****	****	504	****
ETHENE		3.5	243	3.8	23.2	****	2.6	20.0	1.8
	PPBC	7.0	486	7.6	46.4	****	5.2	40.0	3.6
ETHANE		7.4	****	7.5	****	****	5.8	****	11.2
	PPBC	14.8	****	15.0	****	****	11.6	****	22.4
ACETYLENE (POROPAK N)		1.0	****	1.0	23.6	****	1.2	22.0	1.4
	PPBC	2.0	****	2.0	47.2	****	2.4	44.0	2.8
PROPANE		1.1	****	****	7.6	7.6	****	7.4	****
	PPBC	3.3	****	****	22.8	22.8	****	22.2	****
PROPENE		0.1	****	****	11.0	8.8	****	7.0	****
	PPBC	0.3	****	****	33.0	26.4	****	21.0	****
ISOBUTANE		0.0	****	****	0.0	0.1	****	0.0	****
	PPBC	0.0	****	****	0.0	0.4	****	0.0	****
N-BUTANE		0.1	****	****	96.0	96.0	****	93.6	****
	PPBC	0.4	****	****	384	384	****	374	****
ACETYLENE (DMS)		1.3	****	****	24.0	24.0	****	24.0	****
	PPBC	2.6	****	****	48.0	48.0	****	48.0	****
TRANS-2-BUTENE		0.0	****	****	0.4	0.0	****	0.0	****
	PPBC	0.0	****	****	1.6	0.0	****	0.0	****
CIS-2-BUTENE		0.0	****	****	6.9	3.6	****	1.7	****
	PPBC	0.0	****	****	27.6	14.4	****	6.8	****
2,3-DIMETHYL BUTANE		0.0	****	****	45.2	45.2	****	42.8	****
	PPBC	0.0	****	****	271	271	****	257	****
2-METHYL BUTENE-2		0.0	****	****	6.0	1.0	****	0.0	****
	PPBC	0.0	****	****	30.0	5.0	****	0.0	****
ACETALDEHYDE		****	****	****	1.5	****	****	27.6	****
	PPBC	****	****	****	3.0	****	****	55.2	****

SURROGATE RUN 65-G
GLASS CHAMBER
1974 APR 24

CLOCK TIME		925	950	1010	1030	1100	1100	1130	1200
ELAPSED TIME(MIN)		-65	-40	-20	0	30	30	60	90
ACETONE		1.4	****	****	4.4	****	****	17.6	****
	PPBC	4.2	****	****	13.2	****	****	52.8	****
BENZENE		0.8	****	****	0.8	****	****	1.0	****
	PPBC	4.8	****	****	4.8	****	****	6.0	****
METHYL ETHYL KETONE		0.0	****	****	0.0	****	****	1.0	****
	PPBC	0.0	****	****	0.0	****	****	4.0	****
TOLUENE		0.2	****	****	8.0	****	****	7.2	****
	PPBC	1.4	****	****	56.0	****	****	50.4	****
PARA-XYLENE		9.6	****	****	0.8	****	****	3.4	****
	PPBC	76.8	****	****	6.4	****	****	27.2	****
META-XYLENE		0.5	****	****	18.0	****	****	12.4	****
	PPBC	4.0	****	****	144	****	****	99.2	****
ORTHO-XYLENE		0.4	****	****	0.0	****	****	0.0	****
	PPBC	3.2	****	****	0.0	****	****	0.0	****
N-PROPYL BENZENE		1.2	****	****	0.0	****	****	0.0	****
	PPBC	10.8	****	****	0.0	****	****	0.0	****
META-ETHYL TOLUENE		5.2	****	****	0.5	****	****	0.8	****
	PPBC	46.8	****	****	4.5	****	****	7.2	****
1,2,3 TRIMETHYL BENZENE		9.0	****	****	0.0	****	****	2.0	****
	PPBC	81.0	****	****	0.0	****	****	18.0	****
PAN		****	****	****	0.0	****	****	3.7	****
	PPBC	****	****	****	0.0	****	****	7.4	****
FORMALDEHYDE		****	****	****	56.0	****	****	97.0	****
	PPBC	****	****	****	56.0	****	****	97.0	****
3P COL., 2 MIN 40 SEC		14.0	****	****	34.0	****	****	60.0	****
3P COL., 3 MIN 10 SEC		0.0	****	****	22.0	****	****	9.0	****
3P COL., 4 MIN 00 SEC		16.0	****	****	0.0	****	****	0.0	****
3P COL., 4 MIN 10 SEC		0.0	****	****	8.0	****	****	10.0	****
3P COL., 5 MIN 00 SEC		14.0	****	****	20.0	****	****	0.0	****
3P COL., 5 MIN 30 SEC		0.0	****	****	4.0	****	****	16.0	****
3P COL., 6 MIN 30 SEC		20.0	****	****	0.0	****	****	0.0	****
3P COL., 7 MIN 10 SEC		2.0	****	****	0.0	****	****	0.0	****

SURROGATE RUN 65-G
GLASS CHAMBER
1974 APR 24

CLOCK TIME	925	950	1010	1030	1100	1100	1130	1200
ELAPSED TIME(MIN)	-65	-40	-20	0	30	30	60	90
3P COL., 21 MIN 00 SEC	8.0	****	****	0.0	****	****	0.0	****
3P COL., 23 MIN 00 SEC	8.0	****	****	0.0	****	****	0.0	****
3P COL., 42 MIN 00 SEC	3.0	****	****	0.0	****	****	0.0	****
3P COL., 49 MIN 00 SEC	12.0	****	****	2.0	****	****	5.0	****
TOTAL HC PPBC	681.1	****	****	1648.1	****	****	1695.6	****
TOTAL NON-METHANE HC	261.1	486.0	24.6	1152.1	772.2	19.2	1191.6	28.8
TOTAL SURROGATE	33.5	486.0	24.6	1064.2	723.8	19.2	916.8	28.8

SURROGATE RUN 66-G
GLASS CHAMBER
1974 APR 24

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1420	1515	1545	1615	1645
ELAPSED TIME(MIN)		-55	0	30	60	90
		CONCENTRATIONS (PPB)				
METHANE		560	1700	****	1680	****
	PPBC	560	1700	****	1680	****
ETHENE		1.0	8.8	****	6.4	****
	PPBC	2.0	17.6	****	12.8	****
ETHANE		6.8	22.8	****	22.0	****
	PPBC	13.6	45.6	****	44.0	****
ACETYLENE (PORAPAK N)		1.1	9.6	****	9.6	****
	PPBC	2.2	19.2	****	19.2	****
PROPANE		1.2	4.0	4.0	3.8	3.8
	PPBC	3.6	12.0	12.0	11.4	11.4
PROPENE		0.0	2.4	1.6	1.0	0.8
	PPBC	0.0	7.2	4.8	3.0	2.4
ISOBUTANE		0.0	0.1	0.0	0.0	0.1
	PPBC	0.0	0.4	0.0	0.0	0.4
N-BUTANE		0.2	40.0	39.2	37.6	36.8
	PPBC	0.8	160	157	150	147
ACETYLENE (DMS)		1.0	9.6	9.6	10.0	10.4
	PPBC	2.0	19.2	19.2	20.0	20.8
CIS-2-BUTENE		0.0	3.1	1.5	0.5	0.0
	PPBC	0.0	12.4	6.0	2.0	0.0
2,3-DIMETHYL BUTANE		0.0	19.2	18.2	16.8	15.5
	PPBC	0.0	115	109	101	93.0
2-METHYL BUTENE-2		0.0	2.0	0.0	0.0	0.0
	PPBC	0.0	10.0	0.0	0.0	0.0
ACETALDEHYDE		****	3.5	****	15.0	****
	PPBC	****	7.0	****	30.0	****
PROPIONALDEHYDE		1.4	1.6	****	1.6	****
	PPBC	4.2	4.8	****	4.8	****

SURROGATE RUN 66-G
GLASS CHAMBER
1974 APR 24

CLOCK TIME		1420	1515	1545	1615	1645
ELAPSED TIME(MIN)		-55	0	30	60	90
ACETONE		5.4	6.5	****	16.4	****
	PPBC	16.2	19.5	****	49.2	****
METHYL ETHYL KETONE		0.1	0.1	****	0.2	****
	PPBC	0.4	0.4	****	0.8	****
TOLUENE		1.1	3.6	****	0.0	****
	PPBC	7.7	25.2	****	0.0	****
PARA-XYLENE		0.0	1.2	****	3.4	****
	PPBC	0.0	9.6	****	27.2	****
META-XYLENE		4.6	8.0	****	5.8	****
	PPBC	36.8	64.0	****	46.4	****
META-ETHYL TOLUENE		2.6	0.5	****	3.8	****
	PPBC	23.4	4.5	****	34.2	****
1,2,3 TRIMETHYL BENZENE		4.0	0.8	****	2.8	****
	PPBC	36.0	7.2	****	25.2	****
PAN		****	0.0	****	2.1	****
	PPBC	****	0.0	****	4.2	****
FORMALDEHYDE		****	217	****	****	****
	PPBC	****	217	****	****	****
3P COL., 2 MIN 40 SEC		26.0	28.0	****	62.0	****
3P COL., 3 MIN 10 SEC		0.0	10.0	****	69.0	0.0
3P COL., 4 MIN 10 SEC		0.0	26.0	****	12.0	****
3P COL., 4 MIN 50 SEC		14.0	16.0	****	20.0	****
3P COL., 5 MIN 30 SEC		0.0	14.0	****	12.0	****
3P COL., 11 MIN 30 SEC		4.0	0.0	****	0.0	****
3P COL., 14 MIN 40 SEC		2.0	0.0	****	0.0	****
3P COL., 21 MIN 00 SEC		3.0	0.0	****	0.0	****
3P COL., 23 MIN 00 SEC		7.0	0.0	****	3.0	****
3P COL., 49 MIN 00 SEC		6.0	6.0	****	10.0	****
TOTAL HC PPBC		706.8	2458.8	****	2246.0	****
TOTAL NON-METHANE HC		146.8	758.8	308.0	566.0	275.2
TOTAL SURROGATE		66.6	488.4	288.8	390.4	254.0

SURROGATE RUN 67-G
GLASS CHAMBER
1974 APR 25

1000 FORMALDEHYDE TAKEN 0954 TO 1025

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		905	1000	1030	1100	1130	1200
ELAPSED TIME(MIN)		-55	0	30	60	90	120
		CONCENTRATIONS (PPB)					
METHANE		456	2020	****	2020	0.0	2030
	PPBC	456	2020	****	2020	0.0	2030
ETHENE		1.2	19.2	****	17.6	0.0	14.4
	PPBC	2.4	38.4	****	35.2	0.0	28.8
ETHANE		4.0	40.8	****	40.8	0.0	38.0
	PPBC	8.0	81.6	****	81.6	0.0	76.0
ACETYLENE (POROPAK N)		0.6	22.4	****	22.0	0.0	20.8
	PPBC	1.2	44.8	****	44.0	0.0	41.6
PROPANE		1.2	7.8	7.8	8.2	7.8	7.7
	PPBC	3.6	23.4	23.4	24.6	23.4	23.1
PROPENE		0.1	5.4	4.4	3.6	3.2	2.7
	PPBC	0.3	16.2	13.2	10.8	9.6	8.1
ISOBUTANE		0.1	0.1	0.1	0.2	0.4	0.3
	PPBC	0.4	0.4	0.4	0.8	1.6	1.2
N-BUTANE		0.1	99.2	96.0	92.8	91.2	89.6
	PPBC	0.4	397	384	371	365	358
ACETYLENE (DMS)		0.8	22.4	22.4	22.4	22.4	21.6
	PPBC	1.6	44.8	44.8	44.8	44.8	43.2
CIS-2-BUTENE		0.0	7.2	2.4	2.2	1.0	0.5
	PPBC	0.0	28.8	9.6	8.8	4.0	2.0
2,3-DIMETHYL BUTANE		0.0	46.4	45.0	42.8	41.0	39.7
	PPBC	0.0	278	270	257	246	238
2-METHYL BUTENE-2		0.0	6.8	2.0	0.5	0.0	0.0
	PPBC	0.0	34.0	10.0	2.5	0.0	0.0
ACETALDEHYDE		****	2.0	****	19.4	****	18.6
	PPBC	****	4.0	****	38.8	****	37.2
PROPIONALDEHYDE		0.5	0.5	****	1.0	****	1.2
	PPBC	1.5	1.5	****	3.0	****	3.6

Moore Business Forms, Inc.

SURROGATE RUN 67-G
GLASS CHAMBER
1974 APR 25

CLOCK TIME		905	1000	1030	1100	1130	1200
ELAPSED TIME(MIN)		-55	0	30	60	90	120
ACETONE		2.8	3.0	****	11.2	****	10.6
	PPBC	8.4	9.0	****	33.6	****	31.8
METHYL ETHYL KETONE		0.2	0.0	****	0.8	****	0.1
	PPBC	0.8	0.0	****	3.2	****	0.4
TOLUENE		0.6	****	****	8.4	****	8.4
	PPBC	4.2	****	****	58.8	****	58.8
PARA-XYLENE		2.6	2.4	****	2.0	****	1.2
	PPBC	20.8	19.2	****	16.0	****	9.6
META-XYLENE		0.0	20.0	****	15.6	****	10.8
	PPBC	0.0	160	****	125	****	86.4
META-ETHYL TOLUENE		1.6	0.8	****	2.0	****	1.6
	PPBC	14.4	7.2	****	18.0	****	14.4
1,2,3 TRIMETHYL BENZENE		4.2	2.0	****	3.2	****	2.2
	PPBC	37.8	18.0	****	28.8	****	19.8
PAN		****	0.0	****	2.1	****	3.0
	PPBC	****	0.0	****	4.2	****	6.0
FORMALDEHYDE		****	54.0	****	73.0	****	****
	PPBC	****	54.0	****	73.0	****	****
3P COL., 2 MIN 40 SEC		16.0	34.0	****	56.0	****	94.0
3P COL., 3 MIN 10 SEC		0.0	18.0	****	18.0	****	16.0
3P COL., 4 MIN 10 SEC		3.0	2.0	****	2.0	****	0.0
3P COL., 5 MIN 00 SEC		0.0	6.0	****	8.0	****	24.0
3P COL., 5 MIN 30 SEC		0.0	0.0	****	0.0	****	28.0
3P COL., 7 MIN 00 SEC		0.0	0.0	****	0.0	****	2.0
3P COL., 20 MIN 00 SEC		0.0	0.0	****	2.0	****	1.0
3P COL., 22 MIN 00 SEC		0.0	0.0	****	2.0	****	1.0
3P COL., 23 MIN 00 SEC		3.0	2.0	****	3.0	****	0.0
3P COL., 49 MIN 00 SEC		3.0	1.0	****	4.0	****	8.0
TOTAL HC PPBC		560.4	3235.7	****	3258.9	****	3076.2
TOTAL NON-METHANE HC		104.4	1215.7	755.4	1238.9	694.2	1046.2
TOTAL SURROGATE		20.3	1102.4	710.2	1019.5	647.8	922.2

SURROGATE RUN 68-G
GLASS CHAMBER
1974 APR 25

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1445	1545	1615	1645	1715	1745
ELAPSED TIME(MIN)		-60	0	30	60	90	120
		CONCENTRATIONS (PPB)					
METHANE		540	1700	****	1700	****	1700
	PPBC	540	1700	****	1700	****	1700
ETHENE		1.4	9.2	****	7.7	****	6.4
	PPBC	2.8	18.4	****	15.4	****	12.8
ETHANE		3.4	20.0	****	17.7	****	18.0
	PPBC	6.8	40.0	****	35.4	****	36.0
ACETYLENE (POROPAK N)		1.4	10.0	****	9.6	****	10.0
	PPBC	2.8	20.0	****	19.2	****	20.0
PROPANE		1.2	4.0	4.0	4.6	4.0	4.0
	PPBC	3.6	12.0	12.0	13.8	12.0	12.0
PROPENE		0.1	2.3	1.8	1.4	1.0	1.0
	PPBC	0.3	6.9	5.4	4.2	3.0	3.0
ISOBUTANE		0.0	0.1	0.0	0.0	0.2	0.3
	PPBC	0.0	0.4	0.0	0.0	0.8	1.2
N-BUTANE		0.4	41.6	40.8	38.4	37.6	37.6
	PPBC	1.6	166	163	154	150	150
ACETYLENE (DMS)		1.4	10.4	10.4	10.0	10.0	10.0
	PPBC	2.8	20.8	20.8	20.0	20.0	20.0
CIS-2-BUTENE		0.0	3.0	1.4	0.6	0.0	0.4
	PPBC	0.0	12.0	5.6	2.4	0.0	1.6
2,3-DIMETHYL BUTANE		0.0	20.4	19.2	18.0	16.8	16.4
	PPBC	0.0	122	115	108	101	98.4
2-METHYL BUTENE-2		0.0	2.5	0.4	0.0	0.0	0.0
	PPBC	0.0	12.5	2.0	0.0	0.0	0.0
ACETALDEHYDE		****	4.2	****	12.8	****	15.4
	PPBC	****	8.4	****	25.6	****	30.8
PROPIONALDEHYDE		2.5	0.5	****	1.4	****	1.5
	PPBC	7.5	1.5	****	4.2	****	4.5

SURROGATE RUN 68-G
GLASS CHAMBER
1974 APR 25

CLOCK TIME		1445	1545	1615	1645	1715	1745
ELAPSED TIME(MIN)		-60	0	30	60	90	120
ACETONE		2.2	5.4	****	11.2	****	17.0
	PPBC	6.6	16.2	****	33.6	****	51.0
METHYL ETHYL KETONE		0.1	0.0	****	0.0	****	1.0
	PPBC	0.4	0.0	****	0.0	****	4.0
TOLUENE		0.8	4.0	****	4.2	****	3.6
	PPBC	5.6	28.0	****	29.4	****	25.2
PARA-XYLENE		3.5	2.5	****	2.0	****	2.6
	PPBC	28.0	20.0	****	16.0	****	20.8
META-XYLENE		0.4	9.2	****	6.5	****	3.6
	PPBC	3.2	73.6	****	52.0	****	28.8
META-ETHYL TOLUENE		1.6	0.4	****	2.0	****	1.8
	PPBC	14.4	3.6	****	18.0	****	16.2
1,2,3 TRIMETHYL BENZENE		2.8	1.0	****	2.8	****	3.0
	PPBC	25.2	9.0	****	25.2	****	27.0
PAN		****	0.0	****	1.1	****	1.8
	PPBC	****	0.0	****	2.2	****	3.6
FORMALDEHYDE		****	51.0	****	95.0	****	136
	PPBC	****	51.0	****	95.0	****	136
3P COL., 2 MIN 40 SEC		16.0	32.0	****	58.0	****	94.0
3P COL., 3 MIN 10 SEC		12.0	9.0	****	7.0	****	8.0
3P COL., 4 MIN 10 SEC		0.0	4.0	****	3.0	****	4.0
3P COL., 5 MIN 00 SEC		10.0	16.0	****	14.0	****	2.0
3P COL., 5 MIN 30 SEC		0.0	6.0	****	0.0	****	2.0
3P COL., 7 MIN 00 SEC		0.0	1.0	****	2.0	****	0.0
3P COL., 14 MIN 30 SEC		0.0	1.0	****	1.0	****	1.0
3P COL., 20 MIN 00 SEC		0.0	0.0	****	0.0	****	1.0
3P COL., 21 MIN 00 SEC		2.0	0.0	****	1.0	****	2.0
3P COL., 23 MIN 00 SEC		4.0	2.0	****	3.0	****	2.0
3P COL., 49 MIN 00 SEC		10.0	6.0	****	9.0	****	9.0
TOTAL HC PPBC		648.8	2322.7	****	2353.6	****	2383.3
TOTAL NON-METHANE HC		108.8	622.7	324.2	653.6	287.0	683.3
TOTAL SURROGATE		26.7	512.6	303.4	433.8	266.2	388.2

SURROGATE RUN 69-G
GLASS CHAMBER
1974 APR 26

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		925	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		-50	0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)											
METHANE		480	1520	****	1550	****	1570	****	1550	****	1550	1570	1580
	PPBC	480	1520	****	1550	****	1570	****	1550	****	1550	1570	1580
ETHENE		1.7	6.4	****	6.0	****	4.8	****	4.4	****	4.0	4.0	3.4
	PPBC	3.4	12.8	****	12.0	****	9.6	****	8.8	****	8.0	8.0	6.8
ETHANE		4.0	13.8	****	14.2	****	13.8	****	13.8	****	14.2	14.2	13.8
	PPBC	8.0	27.6	****	28.4	****	27.6	****	27.6	****	28.4	28.4	27.6
ACETYLENE (POROPAK N)		0.9	6.6	****	6.8	****	6.4	****	6.4	****	6.4	6.6	6.6
	PPBC	1.8	13.2	****	13.6	****	12.8	****	12.8	****	12.8	13.2	13.2
PROPANE		1.1	2.9	2.8	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.1
	PPBC	3.3	8.7	8.4	8.7	8.7	9.0	9.0	9.0	9.0	9.3	9.3	9.3
PROPENE		0.1	1.4	1.1	0.8	0.6	0.5	0.4	0.2	0.2	0.2	0.2	0.2
	PPBC	0.3	4.2	3.3	2.4	1.8	1.5	1.2	0.6	0.6	0.6	0.6	0.6
ISOBUTANE		0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4
	PPBC	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8	0.8	1.2	1.2	1.6
N-BUTANE		0.0	26.8	26.0	25.2	24.4	24.0	22.8	22.0	21.6	21.2	20.4	19.6
	PPBC	0.0	107	104	101	97.6	96.0	91.2	88.0	86.4	84.8	81.6	78.4
ACETYLENE (DMS)		0.9	7.2	7.2	7.2	7.0	6.8	6.8	6.8	6.6	6.6	6.6	6.8
	PPBC	1.8	14.4	14.4	14.4	14.0	13.6	13.6	13.6	13.2	13.2	13.2	13.6
ISOPENTANE		0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.7
	PPBC	0.0	0.0	0.0	1.0	1.5	1.0	1.0	1.0	1.5	1.5	2.0	3.5
CIS-2-BUTENE		0.0	1.8	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	7.2	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2,3-DIMETHYL BUTANE		0.0	12.4	11.8	11.0	10.2	9.0	8.4	8.0	8.0	7.8	7.2	6.4
	PPBC	0.0	74.4	70.8	66.0	61.2	54.0	50.4	48.0	48.0	46.8	43.2	38.4
2-METHYL BUTENE-2		0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Moore Business Forms, Inc.

SURROGATE RUN 69-G
GLASS CHAMBER
1974 APR 26

CLOCK TIME		925	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		-50	0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		****	7.2	****	12.4	****	9.4	****	9.5	****	10.0	10.0	10.6
	PPBC	****	14.4	****	24.8	****	18.8	****	19.0	****	20.0	20.0	21.2
PROPIONALDEHYDE		1.1	0.7	****	1.4	****	1.1	****	1.4	****	1.6	2.0	1.4
	PPBC	3.3	2.1	****	4.2	****	3.3	****	4.2	****	4.8	6.0	4.2
ACETONE		2.5	9.4	****	15.2	****	16.8	****	16.8	****	22.0	26.0	26.8
	PPBC	7.5	28.2	****	45.6	****	50.4	****	50.4	****	66.0	78.0	80.4
BENZENE		1.3	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	7.8	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.7	****	****	1.4	****	1.6	****	1.7	****	2.2	2.2	1.6
	PPBC	2.8	****	****	5.6	****	6.4	****	6.8	****	8.8	8.8	6.4
TOLUENE		1.2	2.9	****	2.9	****	3.0	****	2.8	****	3.1	3.0	3.0
	PPBC	8.4	20.3	****	20.3	****	21.0	****	19.6	****	21.7	21.0	21.0
PARA-XYLENE		7.2	4.7	****	4.0	****	1.4	****	3.2	****	4.0	3.7	4.4
	PPBC	57.6	37.6	****	32.0	****	11.2	****	25.6	****	32.0	29.6	35.2
META-XYLENE		0.5	5.8	****	3.8	****	2.4	****	1.8	****	1.6	1.5	1.5
	PPBC	4.0	46.4	****	30.4	****	19.2	****	14.4	****	12.8	12.0	12.0
N-PROPYL BENZENE		0.8	0.1	****	0.1	****	0.1	****	0.1	****	0.1	0.0	0.0
	PPBC	7.2	0.9	****	0.9	****	0.9	****	0.9	****	0.9	0.0	0.0
META-ETHYL TOLUENE		3.5	2.2	****	2.3	****	1.2	****	2.0	****	2.5	2.0	2.5
	PPBC	31.5	19.8	****	20.7	****	10.8	****	18.0	****	22.5	18.0	22.5
1,2,3 TRIMETHYL BENZENE		7.4	5.0	****	4.2	****	1.0	****	4.0	****	4.0	2.6	4.0
	PPBC	66.6	45.0	****	37.8	****	9.0	****	36.0	****	36.0	23.4	36.0
PAN		****	0.0	****	0.9	****	1.8	****	2.5	****	2.5	2.7	2.5
	PPBC	****	0.0	****	1.8	****	3.6	****	5.0	****	5.0	5.4	5.0
FORMALDEHYDE		****	78.0	****	64.0	****	95.0	****	126	****	140	155	159
	PPBC	****	78.0	****	64.0	****	95.0	****	126	****	140	155	159
3P COL. 2 MIN 40 SEC		22.0	24.0	****	68.0	****	100	****	138	****	175	190	224
	PPBC	22.0	24.0	****	68.0	****	100	****	138	****	175	190	224
3P COL., 3 MIN 10 SEC		0.0	5.0	****	6.0	****	6.0	****	4.0	****	4.0	6.0	2.0
3P COL., 4 MIN 10 SEC		2.0	7.0	****	8.0	****	****	****	****	****	4.0	****	4.0
3P COL., 5 MIN 00 SEC		12.0	18.0	****	18.0	****	20.0	****	28.0	****	****	****	50.0
3P COL., 5 MIN 30 SEC		0.0	31.0	****	21.0	****	8.0	****	16.0	****	20.0	****	15.0
3P COL., 7 MIN 10 SEC		3.0	2.0	****	2.0	****	1.0	****	1.0	****	2.0	2.0	2.0

SURROGATE RUN 69-G
GLASS CHAMBER
1974 APR 26

CLOCK TIME	925	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)	-50	0	30	60	90	120	150	180	210	240	300	360
3P COL., 12 MIN 00 SEC	2.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 20 MIN 30 SEC	7.0	0.0	****	2.0	****	2.0	****	2.0	****	3.0	0.0	4.0
3P COL., 22 MIN 30 SEC	0.0	5.0	****	3.0	****	0.0	****	1.0	****	2.0	6.0	2.0
3P COL., 23 MIN 00 SEC	7.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 42 MIN 00 SEC	2.0	1.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 49 MIN 00 SEC	13.0	5.0	****	7.0	****	6.0	****	15.0	****	15.0	13.0	20.0
TOTAL HC PPBC	693.5	2073.6	****	2073.0	****	2032.3	****	2072.9	****	2114.1	2134.7	2163.5
TOTAL NON-METHANE HC	213.5	553.6	206.5	523.0	185.2	462.3	167.2	522.9	159.5	564.1	564.7	583.5
TOTAL SURROGATE	29.2	327.6	192.1	284.6	169.3	251.1	151.8	229.2	144.0	225.4	217.3	207.5

SURROGATE RUN 70-H
GLASS CHAMBER
1974 MAY 8

SPECIAL AROMATICS SURROGATE
NEW CALIBRATION CHART(DMS)

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		1000	1115	1130	1145	1200	1215	1230	1245	1300	1315
ELAPSED TIME(MIN)		-75	0	15	30	45	60	75	90	105	120
		CONCENTRATIONS (PPB)									
METHANE		736	2690	****	****	****	2720	****	****	****	2670
	PPBC	736	2690	****	****	****	2720	****	****	****	2670
ETHENE		5.2	52.8	****	****	****	35.2	****	****	****	36.0
	PPBC	10.4	106	****	****	****	70.4	****	****	****	72.0
ETHANE		4.0	67.2	****	****	****	67.2	****	****	****	75.2
	PPBC	8.0	134	****	****	****	134	****	****	****	150
ACETYLENE (POROPAK N)		1.0	40.0	****	****	****	38.4	****	****	****	36.0
	PPBC	2.0	80.0	****	****	****	76.8	****	****	****	72.0
PROPANE		1.6	15.6	14.8	15.6	15.6	15.2	14.9	15.2	15.2	15.2
	PPBC	4.8	46.8	44.4	46.8	46.8	45.6	44.7	45.6	45.6	45.6
PROPENE		0.2	11.6	10.4	10.4	8.8	7.6	7.0	6.4	5.8	5.2
	PPBC	0.6	34.8	31.2	31.2	26.4	22.8	21.0	19.2	17.4	15.6
ISOBUTANE		0.1	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.8	0.8
	PPBC	0.4	2.4	2.0	2.4	2.4	2.4	2.4	2.4	3.2	3.2
N-BUTANE		0.2	202	198	202	195	192	189	186	186	182
	PPBC	0.8	808	792	808	780	768	756	744	744	728
ACETYLENE (DMS)		1.4	58.4	84.8	58.0	57.2	56.0	51.2	55.2	55.2	54.4
	PPBC	2.8	117	170	116	114	112	102	110	110	109
TRANS-2-BUTENE		0.0	0.5	0.4	0.5	0.4	0.3	0.0	0.0	0.0	0.0
	PPBC	0.0	2.0	1.6	2.0	1.6	1.2	0.0	0.0	0.0	0.0
CIS-2-BUTENE		0.0	15.0	13.4	11.0	8.5	6.6	4.5	2.8	2.2	0.6
	PPBC	0.0	60.0	53.6	44.0	34.0	26.4	18.0	11.2	8.8	2.4
ACETALDEHYDE		0.4	1.0	****	****	****	32.0	****	****	****	49.0
	PPBC	0.8	2.0	****	****	****	64.0	****	****	****	98.0
PROPIONALDEHYDE		0.4	0.8	****	****	****	0.8	****	****	****	1.2
	PPBC	1.2	2.4	****	****	****	2.4	****	****	****	3.6
ACETONE		2.2	****	****	****	****	12.8	****	****	****	28.0
	PPBC	6.6	****	****	****	****	38.4	****	****	****	84.0

SURROGATE RUN 70-H
GLASS CHAMBER
1974 MAY 8

CLOCK TIME		1000	1115	1130	1145	1200	1215	1230	1245	1300	1315
ELAPSED TIME(MIN)		-75	0	15	30	45	60	75	90	105	120
BENZENE		0.0	23.2	****	****	****	21.4	****	****	****	23.0
	PPBC	0.0	139	****	****	****	128	****	****	****	138
METHYL ETHYL KETONE		0.0	1.2	****	****	****	1.6	****	****	****	2.0
	PPBC	0.0	4.8	****	****	****	6.4	****	****	****	8.0
TOLUENE		0.3	20.5	****	****	****	18.2	****	****	****	19.0
	PPBC	2.1	144	****	****	****	127	****	****	****	133
PARA-XYLENE		2.2	18.0	****	****	****	13.6	****	****	****	14.0
	PPBC	17.6	144	****	****	****	109	****	****	****	112
META-XYLENE		0.5	16.8	****	****	****	12.8	****	****	****	10.0
	PPBC	4.0	134	****	****	****	102	****	****	****	80.0
ORTHO-XYLENE		0.0	14.0	****	****	****	11.2	****	****	****	11.2
	PPBC	0.0	112	****	****	****	89.6	****	****	****	89.6
META-ETHYL TOLUENE		0.0	1.4	****	****	****	1.0	****	****	****	1.6
	PPBC	0.0	12.6	****	****	****	9.0	****	****	****	14.4
1,3,5 TRIMETHYL BENZENE		0.0	12.9	****	****	****	5.7	****	****	****	3.4
	PPBC	0.0	116	****	****	****	51.3	****	****	****	30.6
1,2,4 TRIMETHYL BENZENE		0.0	11.4	****	****	****	7.0	****	****	****	5.2
	PPBC	0.0	103	****	****	****	63.0	****	****	****	46.8
1,2,3 TRIMETHYL BENZENE		0.2	9.5	****	****	****	7.0	****	****	****	6.2
	PPBC	1.8	85.5	****	****	****	63.0	****	****	****	55.8
PAN		****	0.0	****	****	****	3.7	****	****	****	14.6
	PPBC	****	0.0	****	****	****	7.4	****	****	****	29.2
FORMALDEHYDE		****	53.0	****	****	****	120	****	****	****	161
	PPBC	****	53.0	****	****	****	120	****	****	****	161
3P COL., 2 MIN 40 SEC		12.0	60.0	****	****	****	38.0	****	****	****	60.0
3P COL., 2 MIN 30 SEC		0.0	16.0	****	****	****	0.0	****	****	****	0.0
3P COL., 4 MIN 50 SEC		3.0	2.0	****	****	****	6.0	****	****	****	0.0
3P COL., 7 MIN 00 SEC		0.0	0.0	****	****	****	1.0	****	****	****	4.0
3P COL., 14 MIN 40 SEC		2.0	0.0	****	****	****	0.0	****	****	****	0.0
3P COL., 49 MIN 00 SEC		4.0	10.0	****	****	****	24.0	****	****	****	36.0
TOTAL HC PPBC		797.5	5034.5	****	****	****	4867.1	****	****	****	4861.6
TOTAL NON-METHANE HC		61.5	2344.5	1094.4	1050.4	1005.6	2147.1	944.5	932.8	929.4	2191.6
TOTAL SURROGATE		33.1	1567.9	922.8	932.0	888.8	1393.0	839.7	820.0	815.8	1317.4

Moore Business Forms, Inc.

SURROGATE RUN 71-H
GLASS CHAMBER
1974 MAY 10

SPECIAL AROMATICS SURROGATE
NEW CALIBRATION CHART(PN AND DMS)
0930, 1015, 1115, 1215 SAMPLES RUN 2-PART COLUMN

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		840	930	945	1000	1015	1030	1045	1100	1115	1130	1145	1215
ELAPSED TIME(MIN)		-65	-15	0	15	30	45	60	75	90	105	120	150
		CONCENTRATIONS (PPB)											
METHANE		720	****	2880	****	****	****	2880	****	****	****	2880	****
	PPBC	720	****	2880	****	****	****	2880	****	****	****	2880	****
ETHENE		3.5	****	50.4	****	****	****	42.4	****	****	****	40.0	****
	PPBC	7.0	****	101	****	****	****	84.8	****	****	****	80.0	****
ETHANE		9.4	****	97.6	****	****	****	92.0	****	****	****	96.0	****
	PPBC	18.8	****	195	****	****	****	184	****	****	****	192	****
ACETYLENE (POROPAK N)		1.8	****	57.6	****	****	****	53.6	****	****	****	55.2	****
	PPBC	3.6	****	115	****	****	****	107	****	****	****	110	****
PROPANE		1.5	****	15.2	15.2	15.2	15.6	14.8	14.8	14.8	14.8	14.0	****
	PPBC	4.5	****	45.6	45.6	45.6	46.8	44.4	44.4	44.4	44.4	42.0	****
PROPENE		0.2	****	11.8	11.6	10.4	9.6	8.4	7.2	6.4	6.0	5.0	****
	PPBC	0.6	****	35.4	34.8	31.2	28.8	25.2	21.6	19.2	18.0	15.0	****
ISOBUTANE		0.2	****	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	****
	PPBC	0.8	****	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	****
N-BUTANE		0.3	****	205	205	204	202	196	****	192	190	186	****
	PPBC	1.2	****	820	820	816	808	784	****	768	760	744	****
ACETYLENE (DMS)		2.0	****	52.8	52.8	52.8	52.8	49.6	50.0	49.6	48.0	48.0	****
	PPBC	4.0	****	106	106	106	106	99.2	100	99.2	96.0	96.0	****
TRANS-2-BUTENE		0.0	****	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0	****
	PPBC	0.0	****	2.4	2.0	1.6	0.8	0.4	0.0	0.0	0.0	0.0	****
ISOPENTANE		0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	****
	PPBC	0.0	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	****
CIS-2-BUTENE		0.0	****	15.4	14.0	11.7	9.3	7.0	5.3	3.5	2.6	1.5	****
	PPBC	0.0	****	61.6	56.0	46.8	37.2	28.0	21.2	14.0	10.4	6.0	****
N-PENTANE		0.0	****	****	****	****	****	****	****	****	****	0.2	****
	PPBC	0.0	****	****	****	****	****	****	****	****	****	1.0	****
2,3-DIMETHYL BUTANE		0.0	****	****	****	****	****	****	****	****	****	0.0	****
	PPBC	0.0	****	****	****	****	****	****	****	****	****	0.0	****

SURROGATE RUN 71-H
GLASS CHAMBER
1974 MAY 10

CLOCK TIME		840	930	945	1000	1015	1030	1045	1100	1115	1130	1145	1215
ELAPSED TIME(MIN)		-65	-15	0	15	30	45	60	75	90	105	120	150
2-METHYL BUTENE-2		0.0	****	****	****	****	****	****	****	****	****	0.0	****
	PPBC	0.0	****	****	****	****	****	****	****	****	****	0.0	****
ACETALDEHYDE		****	****	2.4	****	****	****	27.0	****	****	****	44.0	****
	PPBC	****	****	4.8	****	****	****	54.0	****	****	****	88.0	****
PROPIONALDEHYDE		0.4	****	0.3	****	****	****	0.4	****	****	****	1.0	****
	PPBC	1.2	****	0.9	****	****	****	1.2	****	****	****	3.0	****
ACETONE		1.5	****	7.2	****	****	****	12.0	****	****	****	28.0	****
	PPBC	4.5	****	21.6	****	****	****	36.0	****	****	****	84.0	****
BENZENE		0.4	27.5	23.0	****	26.6	****	22.4	****	26.0	****	23.4	25.5
	PPBC	2.4	165	138	****	160	****	134	****	156	****	140	153
METHYL ETHYL KETONE		0.4	****	0.8	****	****	****	3.2	****	****	****	7.2	****
	PPBC	1.6	****	3.2	****	****	****	12.8	****	****	****	28.8	****
TOLUENE		0.2	25.4	20.2	****	24.3	****	18.7	****	22.0	****	17.6	20.8
	PPBC	1.4	178	141	****	170	****	131	****	154	****	123	146
ETHYL BENZENE		0.1	0.0	0.8	****	0.0	****	0.6	****	0.0	****	0.6	****
	PPBC	0.8	0.0	6.4	****	0.0	****	4.8	****	0.0	****	4.8	****
PARA-XYLENE		0.3	22.1	16.4	****	20.5	****	14.0	****	16.9	****	12.6	14.6
	PPBC	2.4	177	131	****	164	****	112	****	135	****	101	117
META-XYLENE		1.4	21.0	16.8	****	18.6	****	13.2	****	13.7	****	10.8	10.4
	PPBC	11.2	168	134	****	149	****	106	****	110	****	86.4	83.2
ISOPROPYL BENZENE		0.1	0.0	****	****	0.0	****	0.0	****	0.0	****	0.0	0.0
	PPBC	0.9	0.0	****	****	0.0	****	0.0	****	0.0	****	0.0	0.0
ORTHO-XYLENE		0.1	23.2	14.0	****	20.3	****	12.0	****	17.0	****	10.4	14.7
	PPBC	0.8	186	112	****	162	****	96.0	****	136	****	83.2	118
N-PROPYL BENZENE		0.3	0.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****
	PPBC	2.7	0.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****
META-ETHYL TOLUENE		1.0	0.0	0.9	****	0.0	****	1.0	****	0.0	****	1.1	****
	PPBC	9.0	0.0	8.1	****	0.0	****	9.0	****	0.0	****	9.9	****
1,3,5 TRIMETHYL BENZENE		0.0	14.7	12.6	****	11.5	****	6.3	****	6.2	****	3.6	4.0
	PPBC	0.0	132	113	****	104	****	56.7	****	55.8	****	32.4	36.0
1,2,4 TRIMETHYL BENZENE		0.0	16.0	11.2	****	13.9	****	7.4	****	9.5	****	5.0	7.1
	PPBC	0.0	144	101	****	125	****	66.6	****	85.5	****	45.0	63.9
1,2,3 TRIMETHYL BENZENE		2.7	12.4	9.0	****	10.8	****	7.0	****	7.2	****	5.4	6.1
	PPBC	24.3	112	81.0	****	97.2	****	63.0	****	64.8	****	48.6	54.9
PAN		****	****	0.0	****	****	0.9	2.7	****	****	****	15.1	20.1

SURROGATE RUN 71-H
GLASS CHAMBER
1974 MAY 10

CLOCK TIME		840	930	945	1000	1015	1030	1045	1100	1115	1130	1145	1215
ELAPSED TIME(MIN)		-65	-15	0	15	30	45	60	75	90	105	120	150
	PPBC	****	****	0.0	****	****	1.8	5.4	****	****	****	30.2	40.2
FORMALDEHYDE		****	****	84.0	****	****	****	120	****	****	****	170	****
	PPBC	****	****	84.0	****	****	****	120	****	****	****	170	****
3P COL., 2 MIN 40 SEC		14.0	0.0	36.0	****	0.0	****	98.0	****	0.0	****	132	****
3P COL., 6 MIN 20 SEC		3.0	0.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	****
3P COL., 49 MIN 00 SEC		4.0	0.0	2.0	****	0.0	****	6.0	****	0.0	****	18.0	****
TOTAL HC PPBC		819.9	****	5334.2	****	****	****	5144.0	****	****	****	5144.5	****
TOTAL NON-METHANE HC		99.9	1261.1	2454.2	1065.6	2179.1	1030.6	2264.0	188.8	1843.3	930.4	2264.5	811.2
TOTAL SURROGATE		48.5	345.8	1647.2	958.4	1260.1	921.6	1490.5	87.2	1109.2	832.8	1391.8	228.8

SURROGATE RUN 72-G
GLASS CHAMBER
1974 MAY 15

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		900	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		-90	0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)											
METHANE		536	2100	****	****	****	2030	****	****	****	2080	****	2060
	PPBC	536	2100	****	****	****	2030	****	****	****	2080	****	2060
ETHENE		5.0	25.6	****	****	****	19.2	****	****	****	17.6	****	15.2
	PPBC	10.0	51.2	****	****	****	38.4	****	****	****	35.2	****	30.4
ETHANE		8.5	46.4	****	****	****	44.0	****	****	****	44.8	****	43.2
	PPBC	17.0	92.8	****	****	****	88.0	****	****	****	89.6	****	86.4
ACETYLENE (POROPAK N)		1.8	25.6	****	****	****	22.4	****	****	****	22.4	****	22.4
	PPBC	3.6	51.2	****	****	****	44.8	****	****	****	44.8	****	44.8
PROPANE		1.4	7.6	7.2	7.3	7.3	7.0	7.0	7.0	6.9	6.6	7.9	7.2
	PPBC	4.2	22.8	21.6	21.9	21.9	21.0	21.0	21.0	20.7	19.8	23.7	21.6
PROPENE		0.3	5.4	4.4	3.4	3.0	2.4	2.0	1.7	1.4	1.2	0.8	0.4
	PPBC	0.9	16.2	13.2	10.2	9.0	7.2	6.0	5.1	4.2	3.6	2.4	1.2
ISOBUTANE		0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.8	0.4	0.4
	PPBC	0.8	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.2	3.2	1.6	1.6
N-BUTANE		0.2	91.2	91.2	89.6	88.0	83.2	83.2	81.6	78.4	76.8	76.8	68.0
	PPBC	0.8	365	365	358	352	333	333	326	314	307	307	272
ACETYLENE (DMS)		1.8	25.6	25.6	24.0	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
	PPBC	3.6	51.2	51.2	48.0	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
TRANS-2-BUTENE		0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.4	0.5	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	2.5	2.0	2.5	2.5
CIS-2-BUTENE		0.0	7.0	4.8	2.7	1.6	1.0	0.3	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	28.0	19.2	10.8	6.4	4.0	1.2	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.2	0.3	0.4
	PPBC	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0	2.0	1.0	1.5	2.0
2,3-DIMETHYL BUTANE		0.0	51.8	48.4	47.0	44.7	41.9	41.2	39.4	38.2	37.1	35.0	29.8
	PPBC	0.0	311	290	282	268	251	247	236	229	223	210	179

Moore Business Forms, Inc.

SURROGATE RUN 72-G
GLASS CHAMBER
1974 MAY 15

CLOCK TIME		900	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)		-90	0	30	60	90	120	150	180	210	240	300	360
2-METHYL BUTENE-2		0.0	7.2	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	36.0	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACETALDEHYDE		0.0	0.2	****	19.0	****	25.0	****	27.2	****	29.0	26.0	****
	PPBC	0.0	0.4	****	38.0	****	50.0	****	54.4	****	58.0	52.0	****
PROPIONALDEHYDE		0.2	0.4	****	0.4	****	0.8	****	1.2	****	2.4	2.8	2.8
	PPBC	0.6	1.2	****	1.2	****	2.4	****	3.6	****	7.2	8.4	8.4
ACETONE		0.0	3.6	****	18.4	****	31.2	****	48.0	****	59.2	68.8	56.8
	PPBC	0.0	10.8	****	55.2	****	93.6	****	144	****	178	206	170
BENZENE		0.1	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.6	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
METHYL ETHYL KETONE		0.0	0.0	****	1.4	****	0.0	****	0.0	****	6.0	0.0	0.0
	PPBC	0.0	0.0	****	5.6	****	0.0	****	0.0	****	24.0	0.0	0.0
TOLUENE		0.2	****	****	6.8	****	6.8	****	6.2	****	6.4	6.2	6.0
	PPBC	1.4	****	****	47.6	****	47.6	****	43.4	****	44.8	43.4	42.0
ETHYL BENZENE		0.0	0.0	****	1.0	****	1.2	****	1.6	****	2.2	2.2	2.6
	PPBC	0.0	0.0	****	8.0	****	9.6	****	12.8	****	17.6	17.6	20.8
PARA-XYLENE		0.6	1.4	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	4.8	11.2	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
META-XYLENE		0.0	17.2	****	11.2	****	10.0	****	7.2	****	6.4	5.4	4.2
	PPBC	0.0	138	****	89.6	****	80.0	****	57.6	****	51.2	43.2	33.6
ISOPROPYL BENZENE		0.2	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	1.8	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
META-ETHYL TOLUENE		0.3	2.0	****	1.0	****	0.5	****	1.0	****	1.5	1.5	2.0
	PPBC	2.7	18.0	****	9.0	****	4.5	****	9.0	****	13.5	13.5	18.0
1,2,3 TRIMETHYL BENZENE		0.0	2.4	****	0.6	****	1.0	****	1.4	****	3.4	3.6	4.0
	PPBC	0.0	21.6	****	5.4	****	9.0	****	12.6	****	30.6	32.4	36.0
PAN		****	0.0	****	0.3	****	1.4	****	3.0	****	4.5	6.1	7.6
	PPBC	****	0.0	****	0.6	****	2.8	****	6.0	****	9.0	12.2	15.2
FORMALDEHYDE		****	75.0	****	134	****	203	****	200	****	204	195	228
	PPBC	****	75.0	****	134	****	203	****	200	****	204	195	228
3P COL., 2 MIN 30 SEC		1.0	6.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 2 MIN 40 SEC		8.0	58.0	****	84.0	****	60.0	****	74.0	****	192	188	232
3P COL., 3 MIN 10 SEC		0.0	20.0	****	18.0	****	8.0	****	16.0	****	16.0	16.0	16.0
3P COL., 4 MIN 50 SEC		0.0	8.0	****	24.0	****	78.0	****	112	****	42.0	132	132

SURROGATE RUN 72-G
GLASS CHAMBER
1974 MAY 15

CLOCK TIME	900	1030	1100	1130	1200	1230	1300	1330	1400	1430	1530	1630
ELAPSED TIME(MIN)	-90	0	30	60	90	120	150	180	210	240	300	360
3P COL., 5 MIN 30 SEC	0.0	0.0	****	0.0	****	4.0	****	0.0	****	9.0	4.0	4.0
3P COL., 7 MIN 00 SEC	0.0	2.0	****	0.0	****	2.0	****	4.0	****	4.0	4.0	6.0
3P COL., 14 MIN 30 SEC	0.0	1.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 21 MIN 00 SEC	0.0	1.0	****	3.0	****	1.0	****	1.0	****	2.0	3.0	4.0
3P COL., 22 MIN 00 SEC	0.0	1.0	****	2.0	****	0.0	****	0.0	****	2.0	1.0	2.0
3P COL., 49 MIN 00 SEC	0.0	1.0	****	8.0	****	12.0	****	18.0	****	25.0	30.0	****
TOTAL HC PPBC	585.2	3353.6	****	****	****	3321.4	****	****	****	3446.5	****	3273.7
TOTAL NON-METHANE HC	49.2	1253.6	777.7	1131.8	703.1	1291.4	654.8	1181.7	618.2	1366.5	1217.8	1213.7
TOTAL SURROGATE	37.9	1113.8	725.7	826.0	657.5	915.2	608.2	689.9	567.7	818.8	629.9	710.8

Moore Business Forms, Inc.

SURROGATE RUN 73-G
GLASS CHAMBER
1974 MAY 16

PEAKS MARKED '3P COL.' FOLLOWED BY A RETENTION TIME ARE UNKNOWNS
MEASURED ON THE 3-PART GC COLUMN USED FOR OXYGENATES AND AROMATICS
--- NUMBERS FOR THOSE PEAKS ARE SIGNAL HEIGHTS ONLY ---

CLOCK TIME		855	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		-80	0	30	60	90	120	150	180	210	240	300	360
		CONCENTRATIONS (PPB)											
METHANE		488	1570	****	****	****	1570	****	****	****	1600	****	1630
	PPBC	488	1570	****	****	****	1570	****	****	****	1600	****	1630
ETHENE		4.8	10.8	****	****	****	8.4	****	****	****	7.0	****	5.6
	PPBC	9.6	21.6	****	****	****	16.8	****	****	****	14.0	****	11.2
ETHANE		7.4	18.6	****	****	****	18.4	****	****	****	18.0	****	17.2
	PPBC	14.8	37.2	****	****	****	36.8	****	****	****	36.0	****	34.4
ACETYLENE (POROPAK N)		2.1	8.4	****	****	****	8.0	****	****	****	8.0	****	7.2
	PPBC	4.2	16.8	****	****	****	16.0	****	****	****	16.0	****	14.4
PROPANE		1.2	2.9	2.9	2.9	3.0	2.8	2.8	2.8	2.8	2.8	2.9	2.8
	PPBC	3.6	8.7	8.7	8.7	9.0	8.4	8.4	8.4	8.4	8.4	8.7	8.4
PROPENE		0.2	1.6	1.3	1.1	0.9	0.6	0.4	0.4	0.4	0.4	0.3	0.2
	PPBC	0.6	4.8	3.9	3.3	2.7	1.8	1.2	1.2	1.2	1.2	0.9	0.6
ISOBUTANE		0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.3
	PPBC	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.6	1.2
N-BUTANE		0.2	****	26.4	26.0	25.2	24.0	23.2	22.8	22.4	22.0	20.8	18.8
	PPBC	0.8	****	106	104	101	96.0	92.8	91.2	89.6	88.0	83.2	75.2
ACETYLENE (DMS)		2.0	8.0	8.8	8.8	8.8	8.0	8.0	8.0	8.4	8.0	8.0	7.6
	PPBC	4.0	16.0	17.6	17.6	17.6	16.0	16.0	16.0	16.8	16.0	16.0	15.2
ISOPENTANE		0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.4	0.5	0.5	0.6	0.5
	PPBC	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.0	2.5	2.5	3.0	2.5
CIS-2-BUTENE		0.0	1.8	1.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	7.2	5.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-PENTANE		0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.4	0.4	0.6	0.4
	PPBC	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.5	2.0	2.0	3.0	2.0
2,3-DIMETHYL BUTANE		0.0	14.4	13.5	12.6	12.2	11.5	11.2	10.3	9.4	9.4	8.2	7.1
	PPBC	0.0	86.4	81.0	75.6	73.2	69.0	67.2	61.8	56.4	56.4	49.2	42.6
2-METHYL BUTENE-2		0.0	1.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PPBC	0.0	9.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SURROGATE RUN 73-G
GLASS CHAMBER
1974 MAY 16

CLOCK TIME		855	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)		-80	0	30	60	90	120	150	180	210	240	300	360
ACETALDEHYDE		0.1	0.1	****	8.0	****	11.0	****	14.5	****	13.2	16.5	16.0
	PPBC	0.2	0.2	****	16.0	****	22.0	****	29.0	****	26.4	33.0	32.0
PROPIONALDEHYDE		0.4	0.5	****	0.6	****	0.6	****	1.4	****	1.5	2.0	2.0
	PPBC	1.2	1.5	****	1.8	****	1.8	****	4.2	****	4.5	6.0	6.0
ACETONE		1.6	3.6	****	11.5	****	21.2	****	30.0	****	36.8	42.4	49.6
	PPBC	4.8	10.8	****	34.5	****	63.6	****	90.0	****	110	127	149
METHYL ETHYL KETONE		0.0	0.0	****	0.9	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	0.0	****	3.6	****	0.0	****	0.0	****	0.0	0.0	0.0
TOLUENE		0.2	3.4	****	2.4	****	1.8	****	1.8	****	1.6	1.6	1.6
	PPBC	1.4	23.8	****	16.8	****	12.6	****	12.6	****	11.2	11.2	11.2
ETHYL BENZENE		0.0	0.0	****	1.9	****	1.8	****	2.1	****	1.6	2.6	2.8
	PPBC	0.0	0.0	****	15.2	****	14.4	****	16.8	****	12.8	20.8	22.4
PARA-XYLENE		0.0	1.8	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.0	14.4	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
META-XYLENE		2.6	4.5	****	3.5	****	2.4	****	2.2	****	1.6	1.4	1.0
	PPBC	20.8	36.0	****	28.0	****	19.2	****	17.6	****	12.8	11.2	8.0
ISOPROPYL BENZENE		0.4	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	3.6	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
ORTHO-XYLENE		0.1	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
	PPBC	0.8	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
META-ETHYL TOLUENE		1.4	1.2	****	1.2	****	0.0	****	1.2	****	1.0	1.2	1.5
	PPBC	12.6	10.8	****	10.8	****	0.0	****	10.8	****	9.0	10.8	13.5
1,2,3 TRIMETHYL BENZENE		3.6	3.9	****	3.0	****	2.6	****	3.2	****	3.0	3.8	4.0
	PPBC	32.4	35.1	****	27.0	****	23.4	****	28.8	****	27.0	34.2	36.0
PAN		****	0.0	****	0.2	****	0.5	****	1.0	****	1.8	2.5	3.1
	PPBC	****	0.0	****	0.4	****	1.0	****	2.0	****	3.6	5.0	6.2
FORMALDEHYDE		****	66.0	****	103	****	137	****	145	****	171	176	****
	PPBC	****	66.0	****	103	****	137	****	145	****	171	176	****
3P COL., 2 MIN 30 SEC		6.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 2 MIN 40 SEC		10.0	46.0	****	78.0	****	94.0	****	130	****	160	224	216
3P COL., 3 MIN 10 SEC		0.0	4.0	****	4.0	****	4.0	****	3.0	****	2.0	1.0	2.0
3P COL., 4 MIN 00 SEC		12.0	0.0	****	2.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 5 MIN 00 SEC		5.0	6.0	****	35.0	****	30.0	****	56.0	****	60.0	96.0	108

Moore Business Forms, Inc

SURROGATE RUN 73-G
GLASS CHAMBER
1974 MAY 16

CLOCK TIME	855	1015	1045	1115	1145	1215	1245	1315	1345	1415	1515	1615
ELAPSED TIME(MIN)	-80	0	30	60	90	120	150	180	210	240	300	360
3P COL., 5 MIN 30 SEC	0.0	0.0	****	12.0	****	6.0	****	8.0	****	6.0	8.0	5.0
3P COL., 6 MIN 30 SEC	6.0	0.0	****	0.0	****	0.0	****	0.0	****	0.0	0.0	0.0
3P COL., 7 MIN 10 SEC	4.0	0.0	****	1.0	****	2.0	****	2.0	****	0.0	2.0	2.0
3P COL., 14 MIN 40 SEC	5.0	2.0	****	0.0	****	1.0	****	1.0	****	1.0	1.0	1.0
3P COL., 21 MIN 00 SEC	4.0	0.0	****	1.0	****	2.0	****	2.0	****	3.0	4.0	3.0
3P COL., 23 MIN 00 SEC	5.0	5.0	****	2.0	****	2.0	****	3.0	****	0.0	4.0	3.0
3P COL., 49 MIN 00 SEC	12.0	6.0	****	10.0	****	14.0	****	20.0	****	21.0	32.0	****
TOTAL HC PPBC	599.3	1961.2	****	****	****	2113.6	****	****	****	2214.4	****	2107.0
TOTAL NON-METHANE HC	111.3	391.2	228.7	470.3	205.7	543.6	189.4	539.1	178.1	614.4	601.0	477.0
TOTAL SURROGATE	55.7	251.6	210.3	239.6	187.3	276.6	169.6	192.8	155.6	244.0	164.4	206.4