UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ATMOSPHERIC SCIENCES RESEARCH LABORATORY
RESEARCH TRIANGLE PARK
NORTH CAROLINA 27711

MEMORANDUM

DATE: July 15, 1986

SUBJECT: Final Report - Results of Analysis for Moisture, Alcohol (Methanol, Ethanol and Tertbutylalcohol) and Detailed Hydrocarbons from Fourteen Automotive Evaporative Canister Charcoal Samples.

FROM: David Dropkin
Fred Stump
Silvestre Tejada
Roy Zweidinger
John E. Sigsby, Jr.
Mobile Source Emissions Research Branch (MD-59)

TO: Cliff Dean
Manufacturers Operations Division (EN-340)

Fourteen evaporative emission canister samples were received by Frank Black at EPA, R.T.P. (13 samples were received on 8/5/85 and one sample, A152/0518 on 9/13/85) from EPA, Ann Arbor, Michigan, for analysis of organics (detailed hydrocarbons, methanol, ethanol, and tert-butanol) and moisture content. Custody of the 13 samples was transferred to the laboratory on 9/6/85 and for sample A152/0518 on 9/13/85. Each canister was contained in a sealed plastic bag and all the seals were intact. The canister intake and outlets were plugged with rubber stoppers. The canisters were taken to the Northrop Services Inc shop where they were opened using a band saw and the charcoal riffled three times as per provided instructions. It required from 3 to 5 minutes (measured, but not recorded) to prepare each sample; that is, opening (sawing) the canister, riffling three times, and then pouring the charcoal into a liter size amber bottle sealed with teflon tape. Sample A151/0518 (date removed-8/16/85) was prepared exactly the same as the other canisters when it arrived on September 13, 1875.* After all the samples were riffled the sealed amber bottles were placed in an unlocked -20°C freezer located in our laboratory. The only time the bottles were removed from the freezer was when an aliquot of the sample was required for the particular analysis to be performed.

Water Analysis

Water analyses were performed using ASTM method D 2867 (Test Method for Moisture in Activated Carbon). All the samples were analyzed in duplicate. In addition, a qualification sample containing a known amount of water added to dried charcoal was analyzed at the same time as a quality control check of the system. Blanks, xylene by itself, were run prior to the analysis of the samples.

* Two samples (A152/0611 - date removed 6/10/85 and A152/0518, date removed 8/16/85) were wet which made them difficult to riffle.

The results of the moisture analyses have been reported to you previously (October 28, 1985) and no further testing has been performed.

Alcohol Analyses

The alcohol analyses have not been qualified as there is still no standard method or procedure. Initially 1.00 gram samples were ultrasonicated 9 times, 5 min. each time, with 3cc H_2O. An aliquot of the combined extract was then filtered to remove fines and the alcohols determined by GC/FID. Identifications were based on retention times only. In an attempt to reduce the time required for these extractions, 5.00 g. samples were ultrasonicated 3 times for 5 min each time with 10cc H_2O. The procedure with 5 gram samples (sample A152/0518) gave 0.73 ± 0.04 wt.% ethanol relative to 0.33 ± 0.11 wt.% obtained with the 1 gram samples. For sample A152/0198, which was determined to contain a low concentration of ethanol using the 1.00 g. procedure, there was no increase in the amount of ethanol extracted using the 5.00 g procedure. Repeated extractions of a 5.00 g sample of A152/0518 (with 10cc H_2O each time) indicate that 96% of the extractable ethanol is recovered in the first three extractions. All the 5.00 g. sample extractions were performed in duplicate including the extractions to determine the % ethanol recovery.

The GC/FID analyses for the alcohols were performed by Mr. J. Duncan and Mr. B. Crews of Northrop Services Inc. Alcohol standards were prepared by Mr. Duncan and Mr. Crews and analyzed with the samples. I also submitted standards prepared in this laboratory for analysis with the samples.

The results of the alcohol analyses which were previously reported (October 28, 1985) will have to stand "as is" with the associated caveats as time and equipment limitations have prevented any further work, such as GC/MS confirmations. Mr. Fred Stump attempted to perform the alcohol separations on the gas chromatograph using a Durabond DB wax capillary column (60 meter x 0.53mm i.d.) instead of the packed 1/8" dia. column presently in use, but a separation of ethanol and tert-butanol could not be obtained.

Detailed Hydrocarbon Analyses

Included in this report are the detailed hydrocarbon analysis results for the fourteen canister samples (Table 1). The "Summary of Results" relative to the % organics obtained from the vacuum distillation procedure and the % extracted by the CS_2 soxhlet procedure which was sent to you December 12, 1985 is also included in its completed form as duplicates of three more samples were analyzed after the report was mailed (Table 2).

The CS_2 soxhlet procedure for determining the hydrocarbons adsorbed on charcoal was performed exactly as previously described in Dr. Zweidinger's report to T. Tesoriero December 19, 1984. The vacuum distillation procedure for determining the hydrocarbons adsorbed on charcoal was followed as closely as possible according to the write-up that was provided to us.

Aliquots of the CS_2 extract and the organic fraction of the vacuum distilled charcoal were then vaporized and diluted in tedlar bags and quantitativly analyzed by GC/FID following gasoline detailed hydrocarbon procedures. An aliquot from a laboratory prepared cylinder containing several hydrocarbons was analyzed daily to insure reproducible GC/FID response.

As a guide to aid in the comparison of these two procedures, we are presenting the data as a matrix listing of the distribution, by carbon number, of the normal paraffins, branched paraffins, olefins, naphthanes (cyclic paraffins), and aromatics (Table 3). If we then obtain the percent of total for each carbon number (divide total wt%/sample into total wt%/carbon#) for each sample we get the results in Tables 4 and 5.

These results can then be used to "highlight" the comparisons of the two extraction procedures by means of the bar graphs that follow for each of the canisters. The conclusions that we can obtain from these bar graphs are as we expected, that is:

1. More material is obtained (or not lost) by the vacuum distillation procedure for the more volatile, low molecular weight HC's relative to the CS_2 extraction procedure and

2. More material is obtained or extracted at the higher molecular weight range, less volatile HCs, by the CS_2 extraction procedure relative to the vacuum distillation procedure.

There are, however, some mass balance uncertainties associated with the CS_2 soxhlet extraction procedure. That is, the weight % obtained by totaling the individual HC's from the GC/FID detailed analysis only accounts for, on average, 50% of the material extracted from the charcoal (weight loss of charcoal). By comparison, 85% of the mass obtained by vacuum distillation can be accounted for by summing the individual HC and observed in the GC/FID analysis (See example summaries Tables 6 & 7).

Recommendations

Modifications of the vacuum distillation apparatus such as using greaseless seals should be performed to determine if material greater than C9 can be extracted efficiently by this procedure. This procedure should be carefully examined to determine optimum operating parameters and conditions.

Other solvents such as methylene chloride and n-hexane should be used to extract the charcoal and the results compared to the CS_2 and vacuum distillation procedures.

Other analytical methods should be used to examine the sample in CS_2 solution to determine what materials other than those reported here has been extracted from the charcoal.

The initial effort should be directed at determining the cause of the mass imbalance between the % material extracted by the CS_2 soxhlet procedure and the % of the material accounted for by GC/FID. An internal standard should be added to the CS_2 solutions to determine if the GC procedure for analyzing samples in CS_2 is reproducible. This procedure should be carefully examined to determine optimum operating conditions.

Known concentrations of n-hexane, benzene, n-nonane, 1,3,4-trimethylbenzene, and whole gasoline in CS_2 will also be examined to determine the source of apparent analytical losses in this procedure.

Notes for Table 1

Please note that for CS_2 extractions of all the samples the isopentane, 1-pentene and 2 methyl-1-butene peaks cannot be quantitated because of the interference of the CS_2 solvent peak.

Please note, also, that a -1._ _ _ _ for the concentration of a compound indicates that there are two or more compounds being quantitated and that the concentration of the peak was assigned to the peak number after the decimal place. (For example cyclopentane -1.0220 means that cyclopentane and 2-methyl-2-butene are not separated during a chromatographic analysis of a sample but that, by experience, 2-methyl-2-butene usually has been present in greater concentrations than cyclopentane.

TABLE 1 *

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 2: REPORT58 VAC DIST OF 0518 8-16-85
VARIABLE 19: REPORT24 CS2 RE-EXT OF 0518 3-16-85

COMPOUNDS	REPORT58	REPORT24
6: ISO-BUTANE	NO DATA	0.0002
7: 1-BUTENE	NO DATA	-1.0080
8: ISO-BUTYLENE	NO DATA	0.0029
9: N-BUTANE	0.0019	0.0069
11: TRANS-2-BUTENE	NO DATA	0.0012
12: CIS-2-BUTENE	NO DATA	0.0004
13: 2,2-DIMETHYLPROPANE	NO DATA	0.0002
14: 3-METHYL-1-BUTENE	NO DATA	0.0036
15: ISO-PENTANE	0.1705	NO DATA
16: 1-PENTENE	0.0028	NO DATA
17: 2-METHYL-1-BUTENE	0.0074	NO DATA
18: N-PENTANE	0.1318	NO DATA
22: 2-METHYL-2-BUTENE	0.0435	NO DATA
23: CYCLOPENTANE	-1.0220	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0205	NO DATA
29: 3-METHYL-1-PENTENE	0.0022	NO DATA
30: 4-METHYL-1-PENTENE	0.0031	NO DATA
31: 2,3-DIMETHYLBUTANE	0.1038	NO DATA
33: 2-METHYLPENTANE	0.3084	NO DATA
35: 3-METHYLPENTANE	0.1811	NO DATA
37: METHYLCYCLOPENTANE	0.1083	NO DATA
38: 1-HEXENE	0.0038	NO DATA
40: N-HEXANE	0.1992	NO DATA
42: CIS-3-HEXENE	0.0354	NO DATA
43: CIS-2-HEXENE	0.0044	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0262	NO DATA
45: CYCLOHEXANE	0.0248	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0048	NO DATA
54: BENZENE	0.3276	0.0180
57: 2,4-DIMETHYLPENTANE	0.1598	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	0.0031	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0079	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0224	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0421	NO DATA
67: 2,3-DIMETHYLPENTANE	0.3301	NO DATA

* See Notes at End of Table

70: 2-METHYLHEXANE	0.1661	NO DATA
71: 3-METHYLHEXANE	0.1522	NO DATA
72: 3-ETHYLPENTANE	0.0065	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0089	NO DATA
74: METHYLCYCLOHEXANE	0.0226	NO DATA
77: 3-ETHYL-2-PENTENE	0.0095	NO DATA
78: C7H12 ISOMER	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0143	NO DATA
82: N-HEPTANE	0.1032	NO DATA
83: TRANS-2-HEPTENE	0.0045	NO DATA
85: C7H12 ISOMER	0.0054	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	0.8475	0.0065
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0038	NO DATA
94: C7H12 ISOMER	0.0081	NO DATA
95: TRIMETHYLCYCLOPENTANE	0.0043	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0159	NO DATA
98: 2,4-DIMETHYLHEXANE	0.0795	0.0012
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.0690	0.0011
100: TOLUENE	1.2760	0.0129
101: 2,3,4-TRIMETHYLPENTANE	-1.1000	NO DATA
106: 2,3-DIMETHYLHEXANE	0.0595	0.0019
108: METHYL ETHYLCYCLOPENTANE	0.0164	NO DATA
111: 4-METHYLHEPTANE	0.0414	0.0014
112: 2-METHYLHEPTANE	0.0610	0.0022
113: 3-METHYLHEPTANE	0.0674	0.0026
119: DIMETHYLHEXENE	NO DATA	-1.1210
120: OCTENE	NO DATA	-1.1210
121: C8H16 ISOMER	NO DATA	0.0006
126: N-OCTANE	0.0519	0.0044
129: 2,2,5-TRIMETHYLHEXANE	0.0308	0.0026
136: 2,3,5-TRIMETHYLHEXANE	0.0060	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0033	0.0007
141: ETHYLBENZENE	0.1788	0.0150
143: 2-METHYL-4-ETHYLHEXANE	0.0195	0.0039
145: P-XYLENE	0.2897	0.0233
146: M-XYLENE	0.7492	0.0339
149: C9H16 ISOMER	0.0029	0.0011
150: 2-METHYLOCTANE	-1.1490	-1.1490
152: 2-METHYLOCTANE	0.0264	0.0072

153:	O-XYLENE	0.5770	0.0490
154:	4-METHYLOCTANE	0.0587	0.0172
165:	N-NONANE	0.0445	0.0192
169:	2,2,4-TRIMETHYLHEPTANE	NO DATA	0.0036
170:	3,3,5-TRIMETHYLHEPTANE	NO DATA	-1.1690
171:	ISOPROPYLBENZENE	0.0296	0.0078
175:	C10H22 ISOMER	NO DATA	0.0210
176:	C10H22 ISOMER	NO DATA	0.0007
177:	C10H22 ISOMER	0.0049	NO DATA
178:	N-PROPYLBENZENE	0.1135	0.0362
180:	2,3-DIMETHYLOCTANE	NO DATA	0.0043
181:	C10H22 ISOMER	NO DATA	0.0025
182:	1-METHYL-3 OR 4-ETHYLBENZENE	0.5999	0.1129
185:	C10H22 ISOMER	NO DATA	-1.1860
186:	C10H22 ISOMER	NO DATA	0.0071
188:	1-METHYL-2-ETHYLBENZENE	0.1542	0.0378
189:	1,3,5-TRIMETHYLBENZENE	0.2753	0.0398
192:	C10H22 ISOMER	0.0353	0.0393
193:	1,2,4-TRIMETHYLBENZENE	0.6479	0.1295
195:	C10H22 ISOMER	0.0079	0.0109
201:	N-DECANE	0.0353	0.0019
203:	METHYLSTYRENE OR INDAN	0.0251	0.0283
204:	1,2,3-TRIMETHYLBENZENE	0.1141	0.0352
206:	C11H24 ISOMER	NO DATA	0.0011
207:	1-METHYL-3-ISOPROPYLBENZENE	0.0161	0.0043
208:	1-METHYL-4-ISOPROPYLBENZENE	NO DATA	0.0035
211:	*** UNKNOWN ***	NO DATA	0.0028
212:	C4 ALKYL BENZENE	0.0230	0.0035
214:	C4 ALKYL BENZENE	0.0386	0.0106
215:	C4 ALKYL BENZENE	-1.2140	-1.2140
216:	C4 ALKYL BENZENE	0.0290	0.0106
219:	C11H24 ISOMER	-1.2200	-1.2200
220:	C4 ALKYL BENZENE	0.0513	0.0016
221:	C11H24 ISOMER	-1.2200	-1.2200
223:	C11H24 ISOMER	NO DATA	0.0043
224:	C4 ALKYL BENZENE	NO DATA	0.0020
226:	C11H24 ISOMER	NO DATA	0.0020
228:	C4 ALKYL BENZENE	NO DATA	0.0031
237:	C11H24 ISOMER	NO DATA	0.0034
249:	C5 ALKYLBENZENE	NO DATA	0.0038

TOTAL FID WT. % HC ON CARBON	9.5872	0.8550
UNKNOWN FID WT. % ON CARBON	0.0278	0.0279

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 38: REPORT50 VAC DIST OF 0599 6-3-85
VARIABLE 22: REPORT51 VAC DIST OF 0599 6-3-85
VARIABLE 5: REPORT31 CS2 EXT OF 0599 6-3-85
VARIABLE 44: REPORT20 CS2 EXT OF 0599 6-3-85
VARIABLE 36: REPORT32 CS2 RE-EXT OF 0599 6-3-85
VARIABLE 37: REPORT41 CS2 RE-EXT OF 0139 8-2-84

COMPOUNDS	REPORT50	REPORT51	REPORT31	REPORT20	REPORT32	REPORT41
6: ISO-BUTANE	0.0136	NO DATA	0.0002	0.0002	0.0001	0.0012
7: 1-BUTENE	-1.0090	NO DATA	-1.0080	-1.0080	-1.0080	-1.0080
8: ISO-BUTYLENE	-1.0090	NO DATA	0.0159	0.0136	0.0029	0.0051
9: N-BUTANE	0.1582	NO DATA	0.0218	0.0257	0.0078	0.0074
11: TRANS-2-BUTENE	NO DATA	NO DATA	NO DATA	0.0050	NO DATA	NO DATA
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0007	0.0031	NO DATA	0.0002
13: 2,2-DIMETHYLPROPANE	0.0020	NO DATA	0.0004	0.0003	0.0006	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	NO DATA	0.0024	0.0027	0.0004	0.0046
15: ISO-PENTANE	0.4009	0.0708	0.0000	0.0000	NO DATA	NO DATA
16: 1-PENTENE	NO DATA	NO DATA	NO DATA	0.0000	NO DATA	NO DATA
17: 2-METHYL-1-BUTENE	0.0054	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
18: N-PENTANE	0.2229	0.0578	0.1450	0.1479	0.0012	0.0022
19: TRANS-2-PENTENE	NO DATA	NO DATA	0.0041	0.0153	NO DATA	NO DATA
21: ISOPRENE	NO DATA	NO DATA	NO DATA	0.0066	NO DATA	NO DATA
22: 2-METHYL-2-BUTENE	0.0366	0.0134	0.0112	0.0097	NO DATA	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220	-1.0220	NO DATA	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	NO DATA	0.0004	0.0007	0.0004	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0223	0.0102	0.0115	0.0098	NO DATA	NO DATA
29: 3-METHYL-1-PENTENE	NO DATA	NO DATA	0.0006	0.0007	0.0002	NO DATA
31: 2,3-DIMETHYLBUTANE	0.0728	0.0395	0.0423	0.0379	0.0005	0.0007
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	NO DATA	NO DATA	0.0005	0.0008	NO DATA	NO DATA
33: 2-METHYLPENTANE	0.1598	0.0924	0.0979	0.0802	0.0008	0.0023
35: 3-METHYLPENTANE	0.0859	0.0510	0.0551	0.0415	0.0067	0.0016
37: METHYLCYCLOPENTANE	0.0514	0.0300	0.0393	0.0206	0.0250	0.0007
38: 1-HEXENE	NO DATA	NO DATA	0.0007	0.0020	NO DATA	NO DATA
40: N-HEXANE	0.2878	0.1577	0.2358	0.0637	0.2893	0.0044
42: CIS-3-HEXENE	0.0209	0.0143	0.0156	0.0108	NO DATA	NO DATA
43: CIS-2-HEXENE	NO DATA	NO DATA	0.0011	NO DATA	NO DATA	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0072	0.0063	0.0058	0.0077	NO DATA	NO DATA
45: CYCLOHEXANE	0.0113	0.0082	0.0040	0.0031	NO DATA	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	NO DATA	0.0026	0.0018	0.0009	NO DATA	NO DATA

54: BENZENE	0.9954	0.6221	0.0746	0.0447	0.0289	0.0306
57: 2,4-DIMETHYLPENTANE	0.2071	0.1614	0.1344	0.1063	NO DATA	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0011	0.0019	NO DATA	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	NO DATA	0.0036	0.0039	0.0037	NO DATA	NO DATA
63: 5-METHYL-2-HEXENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0033	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0118	0.0112	0.0102	0.0095	NO DATA	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0224	0.0207	0.0182	0.0149	NO DATA	NO DATA
66: 3-ETHYL-1-PENTENE	NO DATA	NO DATA	0.0007	0.0007	NO DATA	NO DATA
67: 2,3-DIMETHYLPENTANE	0.3781	0.3278	0.3051	0.2427	0.0010	0.0020
70: 2-METHYLHEXANE	0.1672	0.1434	0.1266	0.1015	0.0006	NO DATA
71: 3-METHYLHEXANE	0.1607	0.1382	0.1275	0.1029	0.0006	0.0008
72: 3-ETHYLPENTANE	NO DATA	0.0025	0.0035	0.0036	NO DATA	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0037	0.0042	NO DATA	NO DATA
74: METHYLCYCLOHEXANE	0.0195	0.0174	0.0160	0.0156	NO DATA	NO DATA
75: 3-METHYL-CIS-2-HEXENE	NO DATA	NO DATA	0.0020	0.0012	NO DATA	NO DATA
76: 1-HEPTENE	NO DATA	0.0031	0.0048	0.0036	0.0007	NO DATA
77: 3-ETHYL-2-PENTENE	0.0082	0.0069	0.0156	0.0100	NO DATA	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	-1.0770	-1.0770	NO DATA	NO DATA
79: ETHYLCYCLOPENTANE	0.0205	0.0180	0.0179	0.0111	0.0004	NO DATA
82: N-HEPTANE	0.2966	0.2661	0.2342	0.1850	0.0014	NO DATA
83: TRANS-2-HEPTENE	0.0081	0.0076	0.0080	0.0054	0.0002	NO DATA
84: TRANS-3-HEPTENE	NO DATA	NO DATA	0.0048	0.0029	NO DATA	NO DATA
85: C7H12 ISOMER	NO DATA	NO DATA	0.0020	0.0004	NO DATA	NO DATA
86: *** UNKNOWN ***	NO DATA	NO DATA	0.0007	NO DATA	NO DATA	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	1.6014	1.4183	1.3736	1.1003	0.0051	0.0291
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0071	0.0064	0.0098	NO DATA	NO DATA	NO DATA
89: C8H16 ISOMER	NO DATA	NO DATA	0.0014	0.0104	NO DATA	NO DATA
90: C7H12 ISOMER	NO DATA	NO DATA	0.0003	0.0068	NO DATA	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0012	0.0013	NO DATA	NO DATA
94: C7H12 ISOMER	0.0261	0.0242	0.0231	NO DATA	NO DATA	NO DATA
95: TRIMETHYLCYCLOPENTANE	0.0152	0.0141	0.0135	0.0110	0.0004	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0616	0.0568	0.0554	0.0148	0.0007	0.0015
98: 2,4-DIMETHYLHEXANE	0.3044	0.2779	0.2641	0.2074	0.0022	0.0023
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.3504	0.3224	0.3083	0.2200	0.0027	0.0012
100: TOLUENE	1.8311	1.6610	0.6074	1.7696	0.0247	0.0818
101: 2,3,4-TRIMETHYLPENTANE	0.6080	0.5708	0.8881	NO DATA	0.0086	NO DATA
102: TRIMETHYLCYCLOPENTANE	NO DATA	NO DATA	0.6374	NO DATA	NO DATA	NO DATA
103: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0078	0.0029	NO DATA	NO DATA
104: TRIMETHYLPENTANE	0.0134	0.0126	0.0238	0.0280	NO DATA	NO DATA
106: 2,3-DIMETHYLHEXANE	0.3047	0.2721	0.2640	0.2298	0.0013	0.0024

108: METHYL ETHYLCYCLOPENTANE	0.0868	0.0834	0.0777	0.0887	0.0015	NO DATA
110: *** UNKNOWN ***	0.0111	0.0086	0.0083	0.0107	NO DATA	NO DATA
111: 4-METHYLHEPTANE	0.2622	0.2414	0.2247	0.1822	0.0036	NO DATA
112: 2-METHYLHEPTANE	0.4508	0.4165	0.3837	0.3134	0.0058	NO DATA
113: 3-METHYLHEPTANE	0.4553	0.4216	0.3945	0.3144	0.0088	NO DATA
114: C8H14 ISOMER + UNKNOWN COMPOUND	NO DATA	NO DATA	NO DATA	0.0090	NO DATA	NO DATA
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	0.0078	0.0068	0.0165	0.0065	NO DATA	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0144	0.0129	0.0217	0.0196	0.0014	0.0008
118: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0102	0.0079	NO DATA	NO DATA
119: DIMETHYLHEXENE	-1.1210	-1.1210	-1.1210	-1.1210	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210	-1.1210	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	0.0086	0.0079	0.0128	0.0091	0.0016	0.0010
122: METHYL ETHYLPENTANE	0.0285	0.0261	0.0446	0.0363	0.0005	0.0005
123: C8H16 ISOMER	NO DATA	0.0338	0.0389	0.0286	0.0002	0.0003
126: N-OCTANE	0.3542	0.3433	0.3241	0.2652	0.0111	0.0014
127: C8H16 + C8H14 ISOMERS	0.0141	0.0131	0.0244	0.0217	0.0011	0.0010
128: C8H16 + C8H14 ISOMERS	NO DATA	0.0031	0.0101	0.0068	0.0008	0.0010
129: 2,2,5-TRIMETHYLHEXANE	0.3192	0.2964	0.3018	0.2477	0.0102	0.0027
131: OCTYNE	NO DATA	NO DATA	0.0065	0.0022	NO DATA	NO DATA
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0060	0.0058	NO DATA	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	0.0069	0.0095	0.0086	NO DATA	NO DATA
134: *** UNKNOWN ***	NO DATA	-1.1350	-1.1350	-1.1350	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	0.0051	0.0054	0.0049	0.0005	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0657	0.0595	0.0718	0.0602	0.0030	NO DATA
137: C9H16 ISOMER	NO DATA	NO DATA	0.0161	0.0133	NO DATA	NO DATA
138: C9H18 ISOMER	NO DATA	NO DATA	0.0116	0.0099	NO DATA	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400	-1.1400	-1.1400	NO DATA
140: 2,3,3-TRIMETHYLHEXANE	0.0636	0.0579	0.0741	0.0636	0.0045	NO DATA
141: ETHYLBENZENE	0.2873	0.2699	0.3028	0.2690	0.0187	0.0029
143: 2-METHYL-4-ETHYLHEXANE	0.1191	0.1096	0.1546	0.1364	0.0100	NO DATA
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	NO DATA	NO DATA	0.0124	0.0004	NO DATA
145: P-XYLENE	0.2618	0.2451	0.2888	0.2573	0.0220	0.0040
146: M-XYLENE	0.7228	0.6750	0.7585	0.6572	0.0538	0.0074
149: C9H16 ISOMER	0.0133	0.0125	0.0212	0.0232	0.0014	NO DATA
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490	-1.1490	-1.1490	NO DATA
151: METHYLETHYLCYCLOHEXANE	0.0049	0.0042	0.0193	0.0187	NO DATA	NO DATA
152: 2-METHYLOCTANE	0.0799	0.0727	0.1208	0.1040	0.0106	NO DATA
153: O-XYLENE	0.3788	0.3525	0.4452	0.3750	0.0443	0.0044
154: 4-METHYLOCTANE	0.1801	0.1637	0.2022	0.1652	0.0164	NO DATA
155: C9H18 ISOMER	NO DATA	NO DATA	0.0103	0.0081	NO DATA	NO DATA

156: C9H16 + C9H18 ISOMERS	NO DATA	NO DATA	0.0020	0.0015	NO DATA	NO DATA
158: C9H18 ISOMER	NO DATA	NO DATA	NO DATA	0.0062	0.0008	NO DATA
159: C9H18 ISOMER	NO DATA	NO DATA	NO DATA	-1.1580	-1.1580	NO DATA
162: C9H18 ISOMER	NO DATA	NO DATA	-1.1630	-1.1630	-1.1630	NO DATA
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	NO DATA	0.0193	0.0146	0.0012	NO DATA
164: C9H18 ISOMER	0.0117	0.0106	0.0312	0.0242	0.0024	NO DATA
165: N-NONANE	0.0770	0.0722	0.1121	0.0955	0.0135	0.0022
166: *** UNKNOWN ***	NO DATA	NO DATA	0.0131	0.0125	0.0029	NO DATA
167: *** UNKNOWN ***	NO DATA	NO DATA	NO DATA	NO DATA	0.0006	NO DATA
169: 2,2,4-TRIMETHYLHEPTANE	0.0553	0.0518	0.0808	0.0671	0.0096	NO DATA
170: 3,3,5-TRIMETHYLHEPTANE	-1.1690	-1.1690	-1.1690	-1.1690	-1.1690	NO DATA
171: ISOPROPYLBENZENE	0.0513	0.0478	0.0735	0.0642	0.0099	NO DATA
172: 5-METHYLNONANE	NO DATA	NO DATA	0.0012	NO DATA	NO DATA	NO DATA
173: C10H22 ISOMER	NO DATA	NO DATA	-1.1740	-1.1740	-1.1740	NO DATA
174: C10H22 ISOMER	NO DATA	NO DATA	0.0060	0.0112	0.0016	NO DATA
175: C10H22 ISOMER	NO DATA	NO DATA	0.0499	0.0364	0.0115	0.0219
176: C10H22 ISOMER	NO DATA	0.0066	0.0287	0.0313	0.0041	NO DATA
177: C10H22 ISOMER	0.0111	0.0112	0.0227	0.0246	NO DATA	NO DATA
178: N-PROPYLBENZENE	0.0900	0.0846	0.1680	0.1440	0.0280	0.0008
180: 2,3-DIMETHYLOCTANE	NO DATA	NO DATA	0.0200	0.0165	0.0060	NO DATA
181: C10H22 ISOMER	NO DATA	NO DATA	0.0131	0.0114	0.0047	NO DATA
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.4495	0.4215	0.7424	0.6156	0.1028	0.0030
184: C10H22 ISOMER	NO DATA	NO DATA	NO DATA	0.0087	0.0031	NO DATA
185: C10H22 ISOMER	NO DATA	NO DATA	-1.1860	-1.1860	-1.1860	NO DATA
186: C10H22 ISOMER	NO DATA	NO DATA	0.0116	0.0097	0.0046	NO DATA
188: 1-METHYL-2-ETHYLBENZENE	0.1033	0.0974	0.1853	0.1597	0.0328	0.0010
189: 1,3,5-TRIMETHYLBENZENE	0.1864	0.1754	0.3339	0.2859	0.0440	0.0011
192: C10H22 ISOMER	0.0417	0.0387	0.0898	0.0857	0.0172	0.0013
193: 1,2,4-TRIMETHYLBENZENE	0.3818	0.3667	0.8299	0.6947	0.1394	0.0036
195: C10H22 ISOMER	0.0374	0.0365	0.1005	0.0866	0.0154	NO DATA
201: N-DECANE	0.0145	0.0139	0.0461	0.0384	0.0034	NO DATA
203: METHYLSTYRENE OR INDAN	0.0311	0.0302	0.0711	0.0614	0.0152	0.0025
204: 1,2,3-TRIMETHYLBENZENE	0.0665	0.0661	0.1944	0.1643	0.0389	0.0009
205: C11H24 ISOMER	NO DATA	NO DATA	0.0058	0.0046	0.0011	NO DATA
206: C11H24 ISOMER	NO DATA	NO DATA	0.0118	0.0108	0.0023	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	0.0077	0.0092	0.0249	0.0210	0.0058	NO DATA
208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	NO DATA	0.0011	0.0059	0.0006	NO DATA
209: C11H24 ISOMER	NO DATA	NO DATA	0.0012	0.0035	0.0003	NO DATA
211: *** UNKNOWN ***	NO DATA	NO DATA	0.0072	0.0088	0.0013	NO DATA
212: C4 ALKYL BENZENE	NO DATA	0.0130	0.0430	0.0387	0.0072	NO DATA

214: C4 ALKYL BENZENE	NO DATA	0.0223	0.1088	0.0968	0.0186	NO DATA
215: C4 ALKYL BENZENE	NO DATA	-1.2140	-1.2140	-1.2140	-1.2140	NO DATA
216: C4 ALKYL BENZENE	NO DATA	0.0126	0.0739	0.0694	0.0132	NO DATA
217: C11H24 ISOMER	NO DATA	NO DATA	NO DATA	NO DATA	0.0010	NO DATA
218: C11H24 ISOMER	NO DATA	NO DATA	NO DATA	NO DATA	-1.2170	NO DATA
219: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200	-1.2200	NO DATA
220: C4 ALKYL BENZENE	NO DATA	0.0356	0.1362	0.1477	0.0171	NO DATA
221: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200	-1.2200	NO DATA
223: C11H24 ISOMER	NO DATA	0.0073	0.0442	0.0410	0.0092	NO DATA
224: C4 ALKYL BENZENE	NO DATA	NO DATA	0.0885	0.0775	0.0046	NO DATA
226: C11H24 ISOMER	NO DATA	NO DATA	0.0707	0.0641	NO DATA	NO DATA
228: C4 ALKYL BENZENE	NO DATA	NO DATA	0.1190	0.1106	0.0058	NO DATA
229: C11H24 ISOMER	NO DATA	NO DATA	0.0290	0.0312	NO DATA	NO DATA
230: *** UNKNOWN ***	NO DATA	NO DATA	0.0018	0.0072	0.0057	NO DATA
231: N-UNDECANE	NO DATA	NO DATA	0.0153	0.0120	NO DATA	NO DATA
237: C11H24 ISOMER	NO DATA	NO DATA	0.0255	0.0205	NO DATA	NO DATA
238: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0090	0.0064	0.0037	NO DATA
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0224	0.0169	NO DATA	0.0013
240: C5 ALKYL BENZENE	NO DATA	NO DATA	0.0227	0.0170	NO DATA	NO DATA
241: 1,2,3,4-TETRAMETHYLBENZENE	NO DATA	NO DATA	0.0454	0.0361	NO DATA	NO DATA
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	NO DATA	0.0549	0.0338	NO DATA	NO DATA
245: C11H16 ISOMER + UNKNOWN COMPOUN	NO DATA	NO DATA	0.0028	0.0061	NO DATA	NO DATA
247: C2 ALKYLSTRYENE OR METHYLINDAN	NO DATA	NO DATA	0.0000	NO DATA	NO DATA	NO DATA
248: *** UNKNOWN ***	NO DATA	NO DATA	NO DATA	0.0234	NO DATA	0.0120
249: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0237	NO DATA	0.0021	NO DATA
252: C5 ALKYLBENZENE	NO DATA	NO DATA	NO DATA	0.0034	NO DATA	NO DATA
253: 2-PHENYL-3-METHYLBUTANE	NO DATA	NO DATA	NO DATA	0.0032	NO DATA	NO DATA
258: C3 ALKYL STYRENE OR C2 ALKYL IN	NO DATA	NO DATA	NO DATA	0.0013	NO DATA	NO DATA
263: C3 ALKYLSTYRENE OR C2 ALKYLINDA	NO DATA	NO DATA	NO DATA	0.0007	NO DATA	NO DATA
TOTAL FID WT. % HC ON CARBON	14.8124	12.5706	15.1830	12.6918	1.2893	0.2631
UNKNOWN FID WT. % ON CARBON	0.0274	0.0497	0.2162	0.2531	0.0213	0.0022

Table 1

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 34: REPORT14 VAC DIST OF 0255 8-16-84
VARIABLE 42: REPORT56 VAC DIST OF 0255 8-16-84
VARIABLE 3: REPORT13 CS2 EXT OF 0255 8-16-84
VARIABLE 18: REPORT15 CS2 EXT OF 0255 8-16-84
VARIABLE 13: REPORT16 CS2 RE-EXT OF 0255 8-16-84

COMPOUNDS	REPORT14	REPORT56	REPORT13	REPORT15	REPORT16
6: ISO-BUTANE	0.0528	0.0118	NO DATA	0.0007	0.0017
7: 1-BUTENE	-1.0080	-1.0080	-1.0080	-1.0080	-1.0080
8: ISO-BUTYLENE	0.0355	0.0318	0.0027	0.0023	0.0153
9: N-BUTANE	0.1173	0.0414	0.0037	0.0037	0.0166
11: TRANS-2-BUTENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0043
12: CIS-2-BUTENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0012
13: 2,2-DIMETHYLPROPANE	0.0024	NO DATA	NO DATA	0.0001	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	NO DATA	0.0003	0.0003	0.0010
15: ISO-PENTANE	2.2715	1.1182	0.0000	0.0000	NO DATA
16: 1-PENTENE	NO DATA	NO DATA	0.0000	0.0000	NO DATA
17: 2-METHYL-1-BUTENE	0.0110	0.0056	0.0000	0.0000	NO DATA
18: N-PENTANE	0.7656	0.4114	0.4108	0.3831	0.0232
19: TRANS-2-PENTENE	NO DATA	NO DATA	0.0060	0.0062	NO DATA
21: ISOPRENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0013
22: 2-METHYL-2-BUTENE	0.0747	0.0462	0.0125	0.0124	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220	-1.0220	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0005
28: 2,2-DIMETHYLBUTANE	0.0697	0.0418	0.0354	0.0331	0.0005
29: 3-METHYL-1-PENTENE	NO DATA	NO DATA	0.0017	0.0016	NO DATA
30: 4-METHYL-1-PENTENE	0.0067	NO DATA	NO DATA	0.0047	NO DATA
31: 2,3-DIMETHYLBUTANE	0.2049	0.1238	0.1233	0.1112	0.0008
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0050	0.0036	0.0052	0.0049	NO DATA
33: 2-METHYLPENTANE	0.6565	0.4245	0.4028	0.3830	0.0018
35: 3-METHYLPENTANE	0.3464	0.2263	0.2188	0.2099	0.0011
37: METHYLCYCLOPENTANE	0.1469	0.1005	0.0932	0.0887	0.0012
38: 1-HEXENE	NO DATA	NO DATA	0.0055	0.0054	0.0007
39: 2-ETHYL-1-BUTENE	NO DATA	NO DATA	0.0018	0.0017	NO DATA
40: N-HEXANE	0.3567	0.2620	0.2714	0.2639	0.0070
41: 3-METHYL-CIS-2-PENTENE	NO DATA	NO DATA	0.0094	0.0091	NO DATA
42: CIS-3-HEXENE	0.0686	0.0577	0.0743	0.0701	NO DATA
43: CIS-2-HEXENE	NO DATA	0.0029	0.0085	0.0082	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0312	0.0152	0.0221	0.0203	0.0009

45: CYCLOHEXANE	0.0184	0.0149	0.0160	0.0150	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0070	0.0065	0.0055	0.0058	NO DATA
54: BENZENE	0.2190	0.5363	0.1736	0.1712	0.0456
57: 2,4-DIMETHYLPENTANE	0.2418	0.1925	0.1741	0.1637	0.0026
59: 2,4 DIMETHYL-1-PENTENE	0.0031	NO DATA	0.0036	0.0037	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0140	0.0103	0.0111	0.0106	0.0086
63: 5-METHYL-2-HEXENE	NO DATA	NO DATA	0.0012	0.0012	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0342	0.0263	0.0289	0.0279	0.0002
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0665	0.0502	0.0560	0.0533	0.0004
66: 3-ETHYL-1-PENTENE	NO DATA	NO DATA	0.0021	0.0021	NO DATA
67: 2,3-DIMETHYLPENTANE	0.3323	0.2533	0.2693	0.2564	0.0070
70: 2-METHYLHEXANE	0.6003	0.4720	0.5039	0.4806	0.0038
71: 3-METHYLHEXANE	0.5448	0.4336	0.4627	0.4402	0.0045
72: 3-ETHYLPENTANE	NO DATA	0.0062	0.0373	0.0056	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0076	0.0082	0.0081	0.0080	NO DATA
74: METHYLCYCLOHEXANE	0.0373	0.0309	0.0390	0.0429	0.0013
75: 3-METHYL-CIS-2-HEXENE	0.0039	0.0037	0.0046	0.0078	NO DATA
76: 1-HEPTENE	0.0042	0.0048	0.0075	0.0141	0.0006
77: 3-ETHYL-2-PENTENE	0.0262	0.0298	0.0342	0.0428	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	-1.0770	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0296	0.0329	0.0333	0.0377	NO DATA
82: N-HEPTANE	0.4932	0.4334	0.4627	0.4504	0.0115
83: TRANS-2-HEPTENE	0.0118	0.0107	0.0159	0.0162	NO DATA
84: TRANS-3-HEPTENE	0.0062	0.0043	0.0083	0.0083	NO DATA
85: C7H12 ISOMER	NO DATA	NO DATA	0.0034	0.0036	NO DATA
86: *** UNKNOWN ***	NO DATA	NO DATA	0.0007	0.0008	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	1.9801	1.6083	1.8610	1.7638	0.0824
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0197	0.0173	0.0277	0.0260	NO DATA
90: C7H12 ISOMER	NO DATA	NO DATA	NO DATA	0.0012	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0006
94: C7H12 ISOMER	0.0416	0.0367	0.0460	0.0451	0.0033
95: TRIMETHYLCYCLOPENTANE	0.0210	0.0187	0.0221	0.0231	0.0014
96: 2,2-DIMETHYLHEXANE	0.0568	0.0508	0.0618	0.0581	0.0079
98: 2,4-DIMETHYLHEXANE	0.3443	0.2970	0.3569	0.3390	0.0230
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.3347	0.2929	0.3315	0.3126	0.0258
100: TOLUENE	1.1095	1.5686	1.0418	1.2534	0.2200
101: 2,3,4-TRIMETHYLPENTANE	0.6338	0.4258	0.6197	0.5720	NO DATA
102: TRIMETHYLCYCLOPENTANE	0.4908	NO DATA	0.5977	0.5718	NO DATA
103: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0230	0.0165	NO DATA
104: TRIMETHYLPENTANE	0.0379	0.0108	0.0577	0.0596	0.0085

106: 2,3-DIMETHYLHEXANE	0.2550	0.2257	0.3238	0.3324	0.0427
108: METHYL ETHYLCYCLOPENTANE	0.0882	0.0791	0.1469	0.1387	0.0163
110: *** UNKNOWN ***	NO DATA	0.0063	0.0203	0.0250	0.0037
111: 4-METHYLHEPTANE	0.2379	0.2181	0.2643	0.2638	0.0321
112: 2-METHYLHEPTANE	0.3920	0.3590	0.4268	0.4349	0.0524
113: 3-METHYLHEPTANE	0.4020	0.3741	0.4516	0.4329	0.0592
114: C8H14 ISOMER + UNKNOWN COMPOUND	NO DATA	NO DATA	NO DATA	NO DATA	0.0003
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	0.0042	0.0040	0.0148	0.0073	NO DATA
116: ISOPROPYLCYCLOPENTANE	NO DATA	NO DATA	0.0300	0.0242	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0094	0.0099	-1.1160	0.0086	0.0031
118: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	-1.1160	0.0068	0.0014
119: DIMETHYLHEXENE	NO DATA	-1.1210	-1.1210	-1.1210	-1.1210
120: OCTENE	NO DATA	-1.1210	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	NO DATA	0.0043	0.0119	0.0054	0.0006
122: METHYL ETHYLPENTANE	0.0122	0.0125	0.0302	0.0526	0.0066
123: C8H16 ISOMER	NO DATA	NO DATA	0.0318	0.0352	0.0011
126: N-OCTANE	0.2285	0.2269	0.2757	0.3517	0.0688
127: C8H16 + C8H14 ISOMERS	0.0079	0.0077	0.0201	0.0309	0.0059
128: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0065	0.0062	NO DATA
129: 2,2,5-TRIMETHYLHEXANE	0.1748	0.1688	0.2199	0.2132	0.0566
131: OCTYNE	NO DATA	NO DATA	NO DATA	0.0327	0.0057
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0070	0.0076	0.0015
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	0.0043	0.0090	0.0087	0.0018
134: *** UNKNOWN ***	NO DATA	NO DATA	-1.1350	-1.1350	-1.1350
135: DIMETHYLHEPTENE	NO DATA	NO DATA	0.0060	0.0073	0.0019
136: 2,3,5-TRIMETHYLHEXANE	0.0315	0.0319	0.0468	0.0612	0.0176
137: C9H16 ISOMER	NO DATA	NO DATA	0.0117	0.0173	0.0037
138: C9H18 ISOMER	NO DATA	NO DATA	0.0136	0.0155	0.0025
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0453	0.0500	0.0743	0.0822	0.0207
141: ETHYLBENZENE	0.1950	0.1876	0.2485	0.3992	0.1120
143: 2-METHYL-4-ETHYLHEXANE	0.0954	0.0903	0.1541	0.1713	0.0482
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	NO DATA	0.0033	0.0043	0.0020
145: P-XYLENE	0.1774	0.1866	0.2576	0.4148	0.1194
146: M-XYLENE	0.4449	0.5235	0.6409	0.9902	0.2967
147: 2-METHYL-3-ETHYLHEXANE	NO DATA	NO DATA	0.0413	0.0497	NO DATA
148: 4-ETHYLHEPTANE	NO DATA	NO DATA	-1.1470	-1.1470	NO DATA
149: C9H16 ISOMER	0.0093	0.0111	0.0174	0.0285	0.0075
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490	-1.1490	-1.1490
151: METHYLETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0014	0.0075	0.0059

152: 2-METHYLOCTANE	0.0594	0.0690	0.1234	0.1342	0.0370
153: O-XYLENE	0.3627	0.2552	NO DATA	0.6597	0.1704
154: 4-METHYLOCTANE	NO DATA	0.1395	0.5797	-1.1530	0.0684
155: C9H18 ISOMER	NO DATA	NO DATA	0.0053	NO DATA	0.0014
156: C9H16 + C9H18 ISOMERS	NO DATA	NO DATA	0.0078	0.0081	0.0009
157: C9H16 +C9H18 ISOMERS	NO DATA	NO DATA	0.0039	0.0037	NO DATA
158: C9H18 ISOMER	NO DATA	NO DATA	0.0036	0.0034	0.0034
159: C9H18 ISOMER	NO DATA	NO DATA	-1.1580	-1.1580	-1.1580
162: C9H18 ISOMER	NO DATA	NO DATA	0.0083	0.0085	-1.1630
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	NO DATA	-1.1620	-1.1620	0.0051
164: C9H18 ISOMER	NO DATA	NO DATA	0.0126	0.0122	0.0072
165: N-NONANE	0.0333	0.0466	0.0844	0.0892	0.0476
166: *** UNKNOWN ***	NO DATA	NO DATA	0.0071	0.0068	0.0040
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	NO DATA	0.0361	0.0353	0.0303
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	NO DATA	-1.1690	-1.1690	-1.1690
171: ISOPROPYLBENZENE	0.0182	0.0217	0.0331	0.0330	0.0290
173: C10H22 ISOMER	NO DATA	NO DATA	-1.1740	-1.1740	-1.1740
174: C10H22 ISOMER	NO DATA	NO DATA	0.0032	0.0032	0.0059
175: C10H22 ISOMER	NO DATA	NO DATA	0.0097	0.0086	0.1177
176: C10H22 ISOMER	NO DATA	NO DATA	0.0090	0.0090	0.0097
177: C10H22 ISOMER	NO DATA	0.0096	NO DATA	0.0191	0.0189
178: N-PROPYLBENZENE	0.0282	0.0353	0.0793	0.0742	0.0864
180: 2,3-DIMETHYLOCTANE	NO DATA	0.0026	0.0179	0.0168	NO DATA
181: C10H22 ISOMER	NO DATA	NO DATA	0.0070	0.0072	0.0106
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.1672	0.2000	0.3658	0.3724	0.3117
184: C10H22 ISOMER	NO DATA	NO DATA	NO DATA	NO DATA	0.0095
185: C10H22 ISOMER	NO DATA	NO DATA	-1.1860	-1.1860	-1.1860
186: C10H22 ISOMER	NO DATA	NO DATA	0.0033	0.0086	0.0060
188: 1-METHYL-2-ETHYLBENZENE	0.0347	0.0462	0.0780	0.0787	0.0894
189: 1,3,5-TRIMETHYLBENZENE	0.0549	0.0926	0.1355	0.1363	0.1357
191: C10H22 ISOMER	NO DATA	NO DATA	0.0301	0.0320	NO DATA
192: C10H22 ISOMER	NO DATA	0.0238	0.0551	0.0545	0.0430
193: 1,2,4-TRIMETHYLBENZENE	0.1158	0.1821	0.3491	0.3474	0.3775
195: C10H22 ISOMER	NO DATA	0.0092	0.0279	0.0268	0.0399
201: N-DECANE	NO DATA	0.0081	0.0168	0.0169	0.0131
203: METHYLSTYRENE OR INDAN	NO DATA	0.0143	0.0295	0.0302	0.0425
204: 1,2,3-TRIMETHYLBENZENE	0.0063	0.0315	0.0712	0.0700	0.0978
205: C11H24 ISOMER	NO DATA	NO DATA	0.0021	0.0023	0.0025
206: C11H24 ISOMER	NO DATA	NO DATA	NO DATA	0.0036	0.0062
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	0.0036	0.0070	0.0108	0.0129

208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	NO DATA	NO DATA	0.0006	0.0009
209: C11H24 ISOMER	NO DATA	NO DATA	0.0010	0.0009	0.0018
211: *** UNKNOWN ***	NO DATA	NO DATA	0.0034	0.0030	0.0048
212: C4 ALKYL BENZENE	NO DATA	0.0045	0.0158	0.0168	0.0221
214: C4 ALKYL BENZENE	NO DATA	0.0081	0.0380	0.0391	0.0592
215: C4 ALKYL BENZENE	NO DATA	-1.2140	-1.2140	-1.2140	-1.2140
216: C4 ALKYL BENZENE	NO DATA	NO DATA	0.0245	0.0250	0.0457
219: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200	-1.2200
220: C4 ALKYL BENZENE	NO DATA	0.0101	0.0472	0.0465	0.0696
221: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200	-1.2200
223: C11H24 ISOMER	NO DATA	NO DATA	0.0092	0.0093	0.0241
224: C4 ALKYL BENZENE	NO DATA	NO DATA	0.0268	0.0264	0.0488
226: C11H24 ISOMER	NO DATA	NO DATA	0.0178	0.0189	0.0379
228: C4 ALKYL BENZENE	NO DATA	NO DATA	0.0215	0.0268	0.0620
230: *** UNKNOWN ***	NO DATA	NO DATA	0.0015	0.0067	0.0048
231: N-UNDECANE	NO DATA	NO DATA	NO DATA	NO DATA	0.0106
237: C11H24 ISOMER	NO DATA	NO DATA	NO DATA	NO DATA	0.0105
238: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0040	0.0041	0.0013
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	NO DATA	NO DATA	0.0224
240: C5 ALKYL BENZENE	NO DATA	NO DATA	0.0013	0.0011	0.0087
241: 1,2,3,4-TETRAMETHYLBENZENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0238
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	NO DATA	NO DATA	NO DATA	0.0326
245: C11H16 ISOMER + UNKNOWN COMPOUN	NO DATA	NO DATA	NO DATA	NO DATA	0.0000
247: C2 ALKYLSTRYENE OR METHYLINDAN	NO DATA	NO DATA	NO DATA	NO DATA	0.0000
248: *** UNKNOWN ***	NO DATA	NO DATA	NO DATA	NO DATA	0.1375
249: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0036	NO DATA	0.0145
251: C5 ALKYLBENZENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0061
252: C5 ALKYLBENZENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0050
253: 2-PHENYL-3-METHYLBUTANE	NO DATA	NO DATA	NO DATA	NO DATA	0.0109
254: C5 ALKYLBENZENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0066
255: METHYLINDENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0003
257: C5 ALKYLBENZENE	NO DATA	NO DATA	NO DATA	NO DATA	0.0053
258: C3 ALKYL STYRENE OR C2 ALKYL IN	NO DATA	NO DATA	NO DATA	NO DATA	0.0013
263: C3 ALKYLSTYRENE OR C2 ALKYLINDA	NO DATA	NO DATA	NO DATA	NO DATA	0.0027
TOTAL FID WT. % HC ON CARBON	16.7656	13.9226	15.6276	16.3983	4.1358
UNKNOWN FID WT. % ON CARBON	0.0790	0.0649	0.2774	0.2463	0.0752

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 16: REPORT43 VAC DIST OF 0611 7-24-85
VARIABLE 25: REPORT57 VAC DIST OF 0611 7-24-85
VARIABLE 7: REPORT19 CS2 EXT OF 0611 7-24-85
VARIABLE 4: REPORT22 CS2 RE-EXT OF 0611 7-24-85

COMPOUNDS	REPORT43	REPORT57	REPORT19	REPORT22
6: ISO-BUTANE	0.0148	NO DATA	0.0003	0.0002
7: 1-BUTENE	-1.0090	NO DATA	-1.0080	-1.0080
8: ISO-BUTYLENE	-1.0090	NO DATA	0.0068	0.0033
9: N-BUTANE	0.1299	NO DATA	0.0223	0.0079
11: TRANS-2-BUTENE	NO DATA	NO DATA	0.0043	NO DATA
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0027	0.0005
13: 2,2-DIMETHYLPROPANE	NO DATA	NO DATA	0.0006	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	NO DATA	0.0013	0.0072
15: ISO-PENTANE	0.6396	0.0361	NO DATA	NO DATA
16: 1-PENTENE	0.0054	NO DATA	NO DATA	NO DATA
17: 2-METHYL-1-BUTENE	0.0062	NO DATA	0.0013	NO DATA
18: N-PENTANE	0.4634	0.0578	0.0533	NO DATA
19: TRANS-2-PENTENE	NO DATA	NO DATA	0.0016	NO DATA
20: CIS-2-PENTENE	NO DATA	NO DATA	0.0013	NO DATA
21: ISOPRENE	NO DATA	NO DATA	0.0009	NO DATA
22: 2-METHYL-2-BUTENE	0.0816	0.0209	0.0126	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0549	0.0195	0.0078	NO DATA
29: 3-METHYL-1-PENTENE	0.0041	NO DATA	0.0005	NO DATA
31: 2,3-DIMETHYLBUTANE	0.2088	0.1112	0.0326	NO DATA
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0019	NO DATA	0.0003	NO DATA
33: 2-METHYLPENTANE	0.5770	0.3620	0.0973	NO DATA
35: 3-METHYLPENTANE	0.3559	0.2388	0.0621	NO DATA
37: METHYLCYCLOPENTANE	0.2556	0.1924	0.0469	NO DATA
38: 1-HEXENE	0.0097	0.0037	0.0020	NO DATA
40: N-HEXANE	0.5870	0.3579	0.0851	NO DATA
42: CIS-3-HEXENE	0.1026	0.0610	0.0091	NO DATA
43: CIS-2-HEXENE	NO DATA	0.0077	0.0012	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0644	0.0523	0.0120	NO DATA
45: CYCLOHEXANE	0.0611	0.0503	0.0055	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0131	0.0102	0.0008	NO DATA
54: BENZENE	0.2161	0.6402	0.1136	0.0271
57: 2,4-DIMETHYLPENTANE	0.3453	0.3292	0.0763	NO DATA

59: 2,4 DIMETHYL-1-PENTENE	0.0094	0.0083	0.0022	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0178	0.0172	0.0040	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0586	0.0577	0.0132	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.1130	0.1122	0.0253	NO DATA
67: 2,3-DIMETHYLPENTANE	0.8953	0.8892	0.2078	0.0032
70: 2-METHYLHEXANE	0.3743	0.3865	0.0829	0.0014
71: 3-METHYLHEXANE	0.3779	0.3880	0.0876	0.0018
72: 3-ETHYLPENTANE	0.0138	0.0163	0.0022	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0247	0.0263	0.0062	NO DATA
74: METHYLCYCLOHEXANE	0.0931	0.0924	0.0231	NO DATA
75: 3-METHYL-CIS-2-HEXENE	0.0060	0.0072	0.0009	NO DATA
76: 1-HEPTENE	NO DATA	NO DATA	0.0011	NO DATA
77: 3-ETHYL-2-PENTENE	0.0643	0.0584	0.0113	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0459	0.0447	0.0077	NO DATA
82: N-HEPTANE	0.3102	0.3277	0.0701	0.0025
83: TRANS-2-HEPTENE	0.0139	0.0124	0.0026	NO DATA
84: TRANS-3-HEPTENE	0.0077	0.0057	0.0017	NO DATA
85: C7H12 ISOMER	0.0155	0.0158	0.0008	NO DATA
86: *** UNKNOWN ***	0.0046	NO DATA	NO DATA	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	2.1251	2.2729	0.5892	0.0401
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0185	0.0111	0.0027	NO DATA
89: C8H16 ISOMER	0.0066	0.0026	NO DATA	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0017	NO DATA
94: C7H12 ISOMER	0.0227	0.0238	0.0061	NO DATA
95: TRIMETHYLCYCLOPENTANE	0.0134	0.0143	0.0040	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0445	0.0559	0.0170	0.0016
98: 2,4-DIMETHYLHEXANE	0.2038	0.2269	0.0584	0.0065
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.1721	0.1927	0.0498	0.0056
100: TOLUENE	5.0959	5.5202	1.6122	0.0945
101: 2,3,4-TRIMETHYLPENTANE	NO DATA	-1.1000	NO DATA	0.0157
103: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0045	NO DATA
104: TRIMETHYLPENTANE	0.0041	0.0197	0.0048	0.0006
106: 2,3-DIMETHYLHEXANE	0.1794	0.1877	0.0519	0.0092
108: METHYL ETHYLCYCLOPENTANE	0.0960	0.0686	0.0141	0.0021
110: *** UNKNOWN ***	0.0087	0.0073	0.0028	0.0010
111: 4-METHYLHEPTANE	0.1129	0.1307	0.0360	0.0068
112: 2-METHYLHEPTANE	0.1572	0.1839	0.0491	0.0103
113: 3-METHYLHEPTANE	0.1745	0.2082	0.0554	0.0113
114: C8H14 ISOMER + UNKNOWN COMPOUND	NO DATA	NO DATA	0.0004	NO DATA

115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	NO DATA	NO DATA	0.0008	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0095	0.0104	0.0043	0.0012
118: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0012	NO DATA
119: DIMETHYLHEXENE	-1.1210	-1.1210	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	0.0028	0.0040	0.0031	0.0011
122: METHYL ETHYLPENTANE	0.0134	0.0150	0.0064	0.0021
123: C8H16 ISOMER	NO DATA	NO DATA	0.0013	NO DATA
126: N-OCTANE	0.1283	0.1493	0.0470	0.0169
127: C8H16 + C8H14 ISOMERS	0.0049	NO DATA	0.0044	0.0011
128: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0014	NO DATA
129: 2,2,5-TRIMETHYLHEXANE	0.0699	0.0822	0.0270	0.0075
131: OCTYNE	NO DATA	NO DATA	NO DATA	0.0029
134: *** UNKNOWN ***	NO DATA	NO DATA	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	NO DATA	0.0010	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0199	0.0211	0.0081	0.0027
138: C9H18 ISOMER	NO DATA	NO DATA	0.0018	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0203	0.0241	0.0097	0.0038
141: ETHYLBENZENE	0.3288	0.3751	0.1610	0.0451
143: 2-METHYL-4-ETHYLHEXANE	0.0404	0.0448	0.0258	0.0076
145: P-XYLENE	0.3163	0.3795	0.1656	0.0520
146: M-XYLENE	0.8677	1.0153	0.4219	0.1140
149: C9H16 ISOMER	0.0098	0.0047	0.0039	0.0015
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490	-1.1490
151: METHYLETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0045	NO DATA
152: 2-METHYLOCTANE	0.0562	0.0421	0.0257	0.0093
153: O-XYLENE	0.4413	0.5371	0.2499	0.0572
154: 4-METHYLOCTANE	0.0794	0.0860	0.0407	0.0201
158: C9H18 ISOMER	NO DATA	NO DATA	0.0026	NO DATA
159: C9H18 ISOMER	NO DATA	NO DATA	-1.1580	NO DATA
162: C9H18 ISOMER	-1.1630	NO DATA	-1.1630	NO DATA
163: N- OR ISOPROPYL- CYCLOHEXANE	0.0067	NO DATA	0.0015	NO DATA
164: C9H18 ISOMER	NO DATA	NO DATA	0.0023	NO DATA
165: N-NONANE	0.0554	0.0354	0.0221	0.0127
169: 2,2,4-TRIMETHYLHEPTANE	0.0151	0.0179	0.0120	0.0064
170: 3,3,5-TRIMETHYLHEPTANE	-1.1690	-1.1690	-1.1690	-1.1690
171: ISOPROPYLBENZENE	0.0344	0.0388	0.0227	0.0084
172: C10H22 ISOMER	0.0535	NO DATA	0.1666	0.0507
173: [illegible]	NO DATA	NO DATA	0.0012	0.0007

177: C10H22 ISOMER	0.0062	NO DATA	0.0039	0.0017
178: N-PROPYLBENZENE	0.0554	0.0754	0.0504	0.0172
180: 2,3-DIMETHYLOCTANE	NO DATA	NO DATA	0.0025	0.0016
181: C10H22 ISOMER	0.0081	NO DATA	0.0020	0.0011
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.3110	0.3621	0.2463	0.0681
185: C10H22 ISOMER	NO DATA	NO DATA	-1.1860	NO DATA
186: C10H22 ISOMER	NO DATA	NO DATA	0.0005	NO DATA
188: 1-METHYL-2-ETHYLBENZENE	0.0641	0.0771	0.0574	0.0193
189: 1,3,5-TRIMETHYLBENZENE	0.1195	0.1325	0.0903	0.0244
192: C10H22 ISOMER	0.0254	NO DATA	0.0200	0.0138
193: 1,2,4-TRIMETHYLBENZENE	0.1831	0.2360	0.1993	0.0548
195: C10H22 ISOMER	0.0111	0.0087	0.0170	0.0114
201: N-DECANE	0.0125	0.0123	0.0169	0.0013
203: METHYLSTYRENE OR INDAN	0.0502	0.0154	0.0121	0.0081
204: 1,2,3-TRIMETHYLBENZENE	0.0349	0.0426	0.0453	0.0148
206: C11H24 ISOMER	NO DATA	NO DATA	0.0011	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	0.0050	NO DATA	0.0047	0.0016
211: *** UNKNOWN ***	NO DATA	NO DATA	0.0014	0.0008
212: C4 ALKYL BENZENE	0.0096	0.0098	0.0147	0.0050
214: C4 ALKYL BENZENE	0.0149	0.0105	0.0211	0.0075
215: C4 ALKYL BENZENE	-1.2140	-1.2140	-1.2140	-1.2140
216: C4 ALKYL BENZENE	0.0046	NO DATA	0.0185	0.0075
219: C11H24 ISOMER	-1.2200	-1.2200	-1.2200	-1.2200
220: C4 ALKYL BENZENE	0.0148	0.0164	0.0296	0.0083
221: C11H24 ISOMER	-1.2200	-1.2200	-1.2200	-1.2200
223: C11H24 ISOMER	NO DATA	NO DATA	0.0027	0.0022
224: C4 ALKYL BENZENE	0.0046	0.0060	0.0168	0.0060
226: C11H24 ISOMER	NO DATA	0.0061	0.0133	0.0033
228: C4 ALKYL BENZENE	NO DATA	0.0089	0.0229	0.0038
231: N-UNDECANE	NO DATA	NO DATA	0.0034	NO DATA
237: C11H24 ISOMER	NO DATA	NO DATA	0.0023	NO DATA
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0029	NO DATA
240: C5 ALKYL BENZENE	NO DATA	NO DATA	0.0041	NO DATA
241: 1,2,3,4-TETRAMETHYLBENZENE	NO DATA	NO DATA	0.0061	NO DATA
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	NO DATA	0.0081	NO DATA
248: *** UNKNOWN ***	NO DATA	NO DATA	0.2693	NO DATA
249: C5 ALKYLBENZENE	0.0225	NO DATA	NO DATA	0.0237
TOTAL FID WT. % HC ON CARBON	18.6991	18.1047	6.4784	0.9984
UNKNOWN FID WT. % ON CARBON	0.0877	0.0589	0.0507	0.0056

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 48: REPORT44 VAC DIST OF 0611 6-10-85
VARIABLE 32: REPORT45 VAC DIST OF 0611 6-10-85
VARIABLE 45: REPORT17 CS2 EXT OF 0611 6-10-85
VARIABLE 29: REPORT18 CS2 RE-EXT OF 0611 6-10-85

COMPOUNDS	REPORT44	REPORT45	REPORT17	REPORT18
6: ISO-BUTANE	NO DATA	NO DATA	0.0004	0.0002
7: 1-BUTENE	-1.0090	-1.0090	-1.0080	-1.0080
8: ISO-BUTYLENE	-1.0090	-1.0090	0.0097	0.0047
9: N-BUTANE	0.0061	0.0151	0.0227	0.0099
11: TRANS-2-BUTENE	NO DATA	NO DATA	0.0076	0.0012
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0033	0.0007
14: 3-METHYL-1-BUTENE	NO DATA	NO DATA	0.0011	0.0098
15: ISO-PENTANE	0.0993	0.1280	NO DATA	NO DATA
18: N-PENTANE	0.0912	0.1096	0.0242	NO DATA
19: TRANS-2-PENTENE	NO DATA	NO DATA	0.0012	NO DATA
21: ISOPRENE	NO DATA	NO DATA	0.0026	NO DATA
22: 2-METHYL-2-BUTENE	0.0311	0.0365	0.0056	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	NO DATA	0.0042	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0123	0.0142	0.0023	NO DATA
29: 3-METHYL-1-PENTENE	NO DATA	NO DATA	0.0004	NO DATA
31: 2,3-DIMETHYLBUTANE	0.0593	0.0659	0.0117	NO DATA
33: 2-METHYLPENTANE	0.1378	0.1559	0.0263	NO DATA
35: 3-METHYLPENTANE	0.0801	0.1117	0.0167	NO DATA
37: METHYLCYCLOPENTANE	0.0763	0.1826	0.0200	NO DATA
38: 1-HEXENE	NO DATA	NO DATA	0.0017	NO DATA
40: N-HEXANE	0.1029	1.1991	0.0247	NO DATA
42: CIS-3-HEXENE	0.0196	0.0201	0.0022	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0223	0.0230	0.0073	NO DATA
45: CYCLOHEXANE	0.0138	0.0168	0.0006	NO DATA
54: BENZENE	0.0953	0.0921	0.1013	0.0454
57: 2,4-DIMETHYLPENTANE	0.1424	0.1395	0.0420	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0030	0.0035	0.0057	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0173	0.0180	0.0063	NO DATA
67: 2,3-DIMETHYLPENTANE	0.4311	0.4575	0.1264	NO DATA
70: 2-METHYLHEXANE	0.0562	0.0543	0.0146	NO DATA
71: 3-METHYLHEXANE	0.0531	0.0537	0.0154	NO DATA
72: 3-ETHYLPENTANE	NO DATA	NO DATA	0.0004	NO DATA

73: 1-CIS-2-DIMETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0016	NO DATA
74: METHYLCYCLOHEXANE	0.0195	0.0201	0.0063	NO DATA
76: 1-HEPTENE	NO DATA	NO DATA	0.0012	NO DATA
77: 3-ETHYL-2-PENTENE	NO DATA	NO DATA	0.0029	NO DATA
78: C7H12 ISOMER	NO DATA	NO DATA	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0080	0.0086	0.0018	NO DATA
82: N-HEPTANE	0.0436	0.0450	0.0113	NO DATA
83: TRANS-2-HEPTENE	NO DATA	NO DATA	0.0008	NO DATA
84: TRANS-3-HEPTENE	NO DATA	NO DATA	0.0005	NO DATA
85: C7H12 ISOMER	NO DATA	NO DATA	0.0003	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	1.1277	1.1970	0.3717	0.0011
88: 1,1,3-TRIMETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0009	NO DATA
90: C7H12 ISOMER	NO DATA	NO DATA	0.0014	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0012	NO DATA
94: C7H12 ISOMER	NO DATA	NO DATA	0.0016	NO DATA
95: TRIMETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0012	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0262	0.0279	0.0105	0.0093
98: 2,4-DIMETHYLHEXANE	0.0917	0.0962	0.0313	NO DATA
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.0738	0.0777	0.0250	NO DATA
100: TOLUENE	2.1693	2.5379	1.0264	0.0086
104: TRIMETHYLPENTANE	NO DATA	NO DATA	0.0026	NO DATA
106: 2,3-DIMETHYLHEXANE	0.0787	0.0826	0.0348	0.0005
108: METHYL ETHYLCYCLOPENTANE	0.0112	0.0131	0.0090	NO DATA
110: *** UNKNOWN ***	NO DATA	NO DATA	0.0012	NO DATA
111: 4-METHYLHEPTANE	0.0240	0.0249	0.0090	NO DATA
112: 2-METHYLHEPTANE	NO DATA	0.0324	0.0121	NO DATA
113: 3-METHYLHEPTANE	0.0497	0.0533	0.0137	0.0006
117: METHYL ETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0036	0.0015
118: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0010	NO DATA
119: DIMETHYLHEXENE	NO DATA	NO DATA	-1.1210	-1.1210
120: OCTENE	NO DATA	NO DATA	-1.1210	-1.1210
121: C8H16 ISOMER	NO DATA	NO DATA	0.0012	0.0022
122: METHYL ETHYLPENTANE	NO DATA	NO DATA	0.0038	0.0011
123: C8H16 ISOMER	NO DATA	NO DATA	0.0006	NO DATA
126: N-OCTANE	0.0369	0.0397	0.0131	0.0039
127: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0019	0.0007
128: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0003	NO DATA
129: 2,2,5-TRIMETHYLHEXANE	0.0356	0.0368	0.0144	NO DATA
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0005	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0006	NO DATA

134: *** UNKNOWN ***	NO DATA	NO DATA	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	NO DATA	0.0004	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0038	NO DATA
137: C9H16 ISOMER	NO DATA	NO DATA	0.0012	NO DATA
138: C9H18 ISOMER	NO DATA	NO DATA	0.0007	NO DATA
139: 4-ETHYL-3-HEPTENE	NO DATA	NO DATA	-1.1400	NO DATA
140: 2,3,3-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0064	NO DATA
141: ETHYLBENZENE	0.1687	0.1877	0.0964	0.0029
143: 2-METHYL-4-ETHYLHEXANE	0.0167	0.0168	0.0094	NO DATA
145: P-XYLENE	0.2675	0.3054	0.1466	0.0028
146: M-XYLENE	0.6947	0.7933	0.3748	0.0092
149: C9H16 ISOMER	NO DATA	NO DATA	0.0022	NO DATA
150: 2-METHYLOCTANE	NO DATA	NO DATA	-1.1490	NO DATA
151: METHYLETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0032	NO DATA
152: 2-METHYLOCTANE	0.0176	0.0205	0.0127	NO DATA
153: O-XYLENE	0.6267	0.7133	0.3722	0.0033
154: 4-METHYLOCTANE	0.0451	0.0528	-1.1530	NO DATA
155: C9H18 ISOMER	NO DATA	NO DATA	0.0004	NO DATA
157: C9H16 +C9H18 ISOMERS	NO DATA	NO DATA	0.0007	NO DATA
158: C9H18 ISOMER	NO DATA	NO DATA	0.0146	NO DATA
159: C9H18 ISOMER	NO DATA	NO DATA	-1.1580	NO DATA
162: C9H18 ISOMER	NO DATA	NO DATA	-1.1630	NO DATA
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	NO DATA	0.0035	NO DATA
164: C9H18 ISOMER	NO DATA	NO DATA	0.0022	NO DATA
165: N-NONANE	0.0454	0.0479	0.0237	0.0024
166: *** UNKNOWN ***	NO DATA	NO DATA	0.0068	NO DATA
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	NO DATA	0.0071	NO DATA
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	NO DATA	-1.1690	NO DATA
171: ISOPROPYLBENZENE	0.0390	0.0457	0.0225	0.0010
173: C10H22 ISOMER	NO DATA	NO DATA	-1.1740	NO DATA
174: C10H22 ISOMER	NO DATA	NO DATA	0.0007	NO DATA
175: C10H22 ISOMER	NO DATA	NO DATA	0.0589	0.1388
176: C10H22 ISOMER	NO DATA	NO DATA	0.0006	NO DATA
178: N-PROPYLBENZENE	0.1569	0.2116	0.1178	0.0013
180: 2,3-DIMETHYLOCTANE	NO DATA	NO DATA	NO DATA	0.0008
181: C10H22 ISOMER	NO DATA	NO DATA	0.0030	0.0015
182: 1-METHYL-3 OR 4-ETHYLBENZENE	1.0196	1.4067	0.7001	0.0067
184: C10H22 ISOMER	NO DATA	NO DATA	0.0014	NO DATA
185: C10H22 ISOMER	NO DATA	NO DATA	-1.1860	-1.1860
186: C10H22 ISOMER	NO DATA	NO DATA	0.0083	0.0010

188: 1-METHYL-2-ETHYLBENZENE	0.3426	0.4807	0.2456	0.0041
189: 1,3,5-TRIMETHYLBENZENE	0.6484	0.7740	0.3796	0.0057
192: C10H22 ISOMER	NO DATA	0.1067	0.0514	0.0046
193: 1,2,4-TRIMETHYLBENZENE	1.8214	3.0863	1.5966	0.0433
195: C10H22 ISOMER	NO DATA	0.0335	0.0178	NO DATA
201: N-DECANE	0.0948	0.2568	0.1445	0.0036
203: METHYLSTYRENE OR INDAN	NO DATA	0.1359	0.0788	0.0064
204: 1,2,3-TRIMETHYLBENZENE	NO DATA	0.7312	0.4036	0.0226
206: C11H24 ISOMER	NO DATA	NO DATA	0.0039	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	0.0712	0.0401	0.0013
208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	NO DATA	0.0090	NO DATA
209: C11H24 ISOMER	NO DATA	NO DATA	0.0051	NO DATA
211: *** UNKNOWN ***	NO DATA	0.0155	0.0177	NO DATA
212: C4 ALKYL BENZENE	NO DATA	0.1809	0.1099	0.0070
214: C4 ALKYL BENZENE	NO DATA	0.4379	0.2716	0.0232
215: C4 ALKYL BENZENE	NO DATA	-1.2140	-1.2140	-1.2140
216: C4 ALKYL BENZENE	NO DATA	0.3431	0.2234	0.0236
219: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200
220: C4 ALKYL BENZENE	NO DATA	0.6427	0.4583	0.0243
221: C11H24 ISOMER	NO DATA	-1.2200	-1.2200	-1.2200
223: C11H24 ISOMER	NO DATA	0.0261	0.0171	0.0028
224: C4 ALKYL BENZENE	NO DATA	0.2936	0.1976	0.0311
226: C11H24 ISOMER	NO DATA	0.2603	0.1866	0.0287
228: C4 ALKYL BENZENE	NO DATA	0.3785	0.2798	0.0395
229: C11H24 ISOMER	NO DATA	NO DATA	0.0717	0.0188
230: *** UNKNOWN ***	NO DATA	0.0860	0.0106	0.0027
231: N-UNDECANE	NO DATA	0.0516	0.0505	0.0112
237: C11H24 ISOMER	NO DATA	0.0161	0.0218	0.0043
238: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0260	0.0037
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0472	0.0240
240: C5 ALKYL BENZENE	NO DATA	0.0541	0.0946	0.0116
241: 1,2,3,4-TETRAMETHYLBENZENE	NO DATA	0.0417	0.1282	0.0364
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	NO DATA	0.1651	0.0421
245: C11H16 ISOMER + UNKNOWN COMPOUN	NO DATA	NO DATA	0.0000	0.0048
247: C2 ALKYLSTRYENE OR METHYLINDAN	NO DATA	NO DATA	0.0000	0.0000
248: *** UNKNOWN ***	NO DATA	NO DATA	0.0862	0.4548
249: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0455	NO DATA
251: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0451	NO DATA
253: 2-PHENYL-3-METHYLBUTANE	NO DATA	NO DATA	0.0599	NO DATA
255: METHYLINDENE	NO DATA	NO DATA	0.0223	NO DATA

257: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0227	NO DATA
258: C3 ALKYL STYRENE OR C2 ALKYL IN	NO DATA	NO DATA	0.0368	NO DATA
260: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0350	NO DATA
263: C3 ALKYLSTYRENE OR C2 ALKYLINDA	NO DATA	NO DATA	0.0186	NO DATA
TOTAL FID WT. % HC ON CARBON	11.3887	19.6803	10.1815	1.2059
UNKNOWN FID WT. % ON CARBON	0.0000	0.1798	0.3165	0.0468

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 12: REPORT10 VAC DIST OF 0237 10-22-84
VARIABLE 43: REPORT11 CS2 EXT OF 0237 10-22-84
VARIABLE 35: REPORT23 CS2 EXT OF 0237 10-22-84
VARIABLE 26: REPORT12 CS2 RE-EXT OF 0237 10-22-84

COMPOUNDS	REPORT10	REPORT11	REPORT23	REPORT12
6: ISO-BUTANE	0.1624	0.0028	0.0002	0.0008
7: 1-BUTENE	-0.7056	-1.0080	-1.0080	-1.0080
8: ISO-BUTYLENE	0.1596	0.0051	0.0031	0.0031
9: N-BUTANE	0.4970	0.0150	0.0256	0.0054
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0004	NO DATA
13: 2,2-DIMETHYLPROPANE	0.0063	0.0006	NO DATA	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	0.0007	0.0054	0.0004
15: ISO-PENTANE	1.5959	0.0000	NO DATA	0.0000
16: 1-PENTENE	NO DATA	NO DATA	NO DATA	0.0000
17: 2-METHYL-1-BUTENE	0.0176	NO DATA	NO DATA	NO DATA
18: N-PENTANE	1.0655	0.2173	0.0027	0.3723
19: TRANS-2-PENTENE	NO DATA	0.0024	NO DATA	0.0420
22: 2-METHYL-2-BUTENE	0.1184	0.0100	NO DATA	0.0127
23: CYCLOPENTANE	-0.7154	-1.0220	NO DATA	-1.0220
28: 2,2-DIMETHYLBUTANE	0.1716	0.0382	0.0015	0.0218
29: 3-METHYL-1-PENTENE	NO DATA	0.0015	NO DATA	0.0005
30: 4-METHYL-1-PENTENE	0.0312	0.0108	NO DATA	NO DATA
31: 2,3-DIMETHYLBUTANE	0.6679	0.2125	0.0060	0.0722
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0377	0.0142	NO DATA	0.0040
33: 2-METHYLPENTANE	1.6529	0.5757	0.0156	0.1537
35: 3-METHYLPENTANE	0.8000	0.3090	0.0093	0.0789
37: METHYLCYCLOPENTANE	0.4703	0.2337	0.0050	0.0564
38: 1-HEXENE	NO DATA	0.0069	NO DATA	NO DATA
39: 2-ETHYL-1-BUTENE	NO DATA	0.0018	NO DATA	NO DATA
40: N-HEXANE	1.0019	0.4756	0.0158	0.0799
41: 3-METHYL-CIS-2-PENTENE	0.0371	0.0251	NO DATA	0.0043
42: CIS-3-HEXENE	0.3813	0.2336	NO DATA	0.0338
43: CIS-2-HEXENE	NO DATA	0.0212	NO DATA	0.0031
44: 1-METHYLCYCLOPENTENE	0.1456	0.0828	0.0021	0.0190
45: CYCLOHEXANE	0.0266	0.0217	NO DATA	0.0034
46: 3-METHYL-TRANS-2-PENTENE	0.0348	0.0197	NO DATA	0.0020
54: BENZENE	0.5899	0.4615	0.0666	0.1193
57: 2,4-DIMETHYLPENTANE	0.6374	0.3522	0.0240	0.0512

59: 2,4 DIMETHYL-1-PENTENE	NO DATA	0.0030	NO DATA	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0091	0.0051	NO DATA	0.0024
63: 5-METHYL-2-HEXENE	NO DATA	0.0004	NO DATA	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0182	0.0139	NO DATA	0.0032
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0356	0.0279	0.0009	0.0027
67: 2,3-DIMETHYLPENTANE	0.8353	0.5702	0.0271	0.0814
70: 2-METHYLHEXANE	0.1286	0.0934	0.0039	0.0150
71: 3-METHYLHEXANE	0.1164	0.0875	0.0038	0.0148
72: 3-ETHYLPENTANE	NO DATA	0.0027	NO DATA	0.0016
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	NO DATA	0.0049	NO DATA	NO DATA
74: METHYLCYCLOHEXANE	0.0377	0.0291	0.0011	0.0031
75: 3-METHYL-CIS-2-HEXENE	NO DATA	0.0013	NO DATA	NO DATA
76: 1-HEPTENE	NO DATA	0.0008	NO DATA	NO DATA
77: 3-ETHYL-2-PENTENE	0.0060	0.0107	NO DATA	0.0009
78: C7H12 ISOMER	-0.7539	-1.0770	NO DATA	-1.0770
79: ETHYLCYCLOPENTANE	NO DATA	0.0085	NO DATA	0.0004
82: N-HEPTANE	0.0616	0.0476	0.0021	0.0123
83: TRANS-2-HEPTENE	NO DATA	0.0022	NO DATA	NO DATA
84: TRANS-3-HEPTENE	NO DATA	0.0009	NO DATA	NO DATA
85: C7H12 ISOMER	NO DATA	0.0011	NO DATA	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	3.7814	3.2101	0.2685	0.8596
88: 1,1,3-TRIMETHYLCYCLOPENTANE	NO DATA	0.0009	NO DATA	0.0028
90: C7H12 ISOMER	NO DATA	NO DATA	NO DATA	0.0004
91: 2,2,4-TRIMETHYL-1-PENTENE	0.0080	NO DATA	0.0026	0.0073
94: C7H12 ISOMER	NO DATA	0.0044	NO DATA	0.0013
95: TRIMETHYLCYCLOPENTANE	NO DATA	0.0030	0.0012	0.0034
96: 2,2-DIMETHYLHEXANE	0.0585	0.0548	0.0078	0.0415
98: 2,4-DIMETHYLHEXANE	0.3015	0.3034	0.0199	0.0894
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.1863	0.1834	0.0129	0.0529
100: TOLUENE	2.2922	2.0587	0.3608	0.5698
101: 2,3,4-TRIMETHYLPENTANE	0.8297	0.7703	0.0530	0.2067
102: TRIMETHYLCYCLOPENTANE	0.4437	0.4465	NO DATA	0.1913
103: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	NO DATA	0.0050
104: TRIMETHYLPENTANE	0.0094	0.0117	0.0007	0.0056
106: 2,3-DIMETHYLHEXANE	0.2173	0.2345	0.0172	0.0772
108: METHYL ETHYLCYCLOPENTANE	0.0442	0.0377	0.0033	0.0269
110: *** UNKNOWN ***	NO DATA	0.0029	NO DATA	0.0012
111: 4-METHYLHEPTANE	0.0131	0.0160	0.0009	0.0057
112: 2-METHYLHEPTANE	0.0080	0.0237	0.0014	0.0084
113: 3-METHYLHEPTANE	0.0086	0.0250	0.0016	0.0102

117: METHYL ETHYLCYCLOPENTANE	NO DATA	NO DATA	0.0014	0.0009
119: DIMETHYLHEXENE	NO DATA	NO DATA	-1.1210	-1.1210
120: OCTENE	NO DATA	NO DATA	-1.1210	-1.1210
121: C8H16 ISOMER	NO DATA	NO DATA	0.0006	0.0014
122: METHYL ETHYLPENTANE	NO DATA	0.0029	NO DATA	0.0007
126: N-OCTANE	0.0083	0.0124	0.0010	0.0070
127: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0010	NO DATA
129: 2,2,5-TRIMETHYLHEXANE	0.0971	0.1420	0.0131	0.0762
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	0.0052	NO DATA	0.0029
134: *** UNKNOWN ***	NO DATA	NO DATA	NO DATA	-1.1350
135: DIMETHYLHEPTENE	NO DATA	NO DATA	NO DATA	0.0045
136: 2,3,5-TRIMETHYLHEXANE	NO DATA	0.0206	0.0012	0.0088
139: 4-ETHYL-3-HEPTENE	NO DATA	-1.1400	NO DATA	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	NO DATA	0.0047	NO DATA	0.0042
141: ETHYLBENZENE	0.0179	0.0201	0.0108	0.0160
143: 2-METHYL-4-ETHYLHEXANE	NO DATA	0.0144	0.0005	0.0069
145: P-XYLENE	0.0169	0.0160	0.0025	0.0467
146: M-XYLENE	0.0432	0.0464	0.0092	0.0654
149: C9H16 ISOMER	NO DATA	0.0067	NO DATA	NO DATA
150: 2-METHYLOCTANE	NO DATA	-1.1490	NO DATA	NO DATA
152: 2-METHYLOCTANE	NO DATA	0.0021	NO DATA	0.0018
153: O-XYLENE	0.0227	0.0293	0.0035	0.0511
154: 4-METHYLOCTANE	NO DATA	NO DATA	0.0023	NO DATA
158: C9H18 ISOMER	NO DATA	NO DATA	0.0023	NO DATA
159: C9H18 ISOMER	NO DATA	NO DATA	-1.1580	NO DATA
165: N-NONANE	NO DATA	0.0016	0.0015	0.0016
166: *** UNKNOWN ***	NO DATA	0.0008	NO DATA	0.0006
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	NO DATA	NO DATA	0.0078
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	NO DATA	NO DATA	-1.1690
171: ISOPROPYLBENZENE	NO DATA	0.0072	0.0012	0.0056
173: C10H22 ISOMER	NO DATA	NO DATA	-1.1740	NO DATA
174: C10H22 ISOMER	NO DATA	NO DATA	0.0010	NO DATA
175: C10H22 ISOMER	NO DATA	0.0043	0.2997	0.0012
176: C10H22 ISOMER	NO DATA	NO DATA	NO DATA	0.0005
178: N-PROPYLBENZENE	NO DATA	0.0041	0.0007	0.0045
180: 2,3-DIMETHYLOCTANE	NO DATA	NO DATA	NO DATA	0.0003
181: C10H22 ISOMER	NO DATA	NO DATA	NO DATA	0.0005
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.0114	0.0194	0.0035	0.0189
188: 1-METHYL-2-ETHYLBENZENE	NO DATA	0.0050	0.0008	0.0060
189: 1,3,5-TRIMETHYLBENZENE	NO DATA	0.0087	NO DATA	0.0101

192: C10H22 ISOMER	NO DATA	NO DATA	0.0026	NO DATA
193: 1,2,4-TRIMETHYLBENZENE	0.0121	0.0116	0.0017	0.0233
195: C10H22 ISOMER	NO DATA	0.0112	0.0013	0.0072
203: METHYLSTYRENE OR INDAN	NO DATA	0.0041	0.0016	0.0019
204: 1,2,3-TRIMETHYLBENZENE	NO DATA	0.0017	NO DATA	0.0045
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	NO DATA	NO DATA	0.0004
223: C11H24 ISOMER	NO DATA	0.0021	NO DATA	0.0016
224: C4 ALKYL BENZENE	NO DATA	0.0025	NO DATA	0.0013
228: C4 ALKYL BENZENE	NO DATA	NO DATA	NO DATA	0.0005
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	0.0007	NO DATA
248: *** UNKNOWN ***	NO DATA	NO DATA	0.3494	NO DATA
249: C5 ALKYLBENZENE	NO DATA	0.0169	NO DATA	NO DATA
TOTAL FID WT. % HC ON CARBON	19.9890	13.4050	1.7201	3.9260
UNKNOWN FID WT. % ON CARBON	0.0000	1.3313	0.0305	0.0843

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 10: REPORT46 VAC DIST OF 0237 11-5-84
VARIABLE 30: REPORT27 CS2 EXT OF 0237 11-5-84
VARIABLE 8: REPORT28 CS2 RE-EXT OF 0237 11-5-84

COMPOUNDS	REPORT46	REPORT27	REPORT28
6: ISO-BUTANE	NO DATA	0.0002	NO DATA
7: 1-BUTENE	-1.0090	-1.0090	-1.0080
8: ISO-BUTYLENE	-1.0090	-1.0090	0.0021
9: N-BUTANE	0.0811	0.0912	0.0054
11: TRANS-2-BUTENE	NO DATA	0.0014	NO DATA
12: CIS-2-BUTENE	NO DATA	0.0013	NO DATA
13: 2,2-DIMETHYLPROPANE	NO DATA	NO DATA	0.0006
14: 3-METHYL-1-BUTENE	NO DATA	0.0034	0.0023
15: ISO-PENTANE	0.1364	0.0000	NO DATA
18: N-PENTANE	0.0860	0.0693	0.0003
19: TRANS-2-PENTENE	NO DATA	0.0047	NO DATA
20: CIS-2-PENTENE	NO DATA	0.0017	NO DATA
22: 2-METHYL-2-BUTENE	0.0209	0.0133	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	0.0006	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0158	0.0107	NO DATA
29: 3-METHYL-1-PENTENE	NO DATA	0.0009	NO DATA
31: 2,3-DIMETHYLBUTANE	0.1023	0.0753	0.0005
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0039	0.0045	NO DATA
33: 2-METHYLPENTANE	0.2845	0.1931	0.0007
35: 3-METHYLPENTANE	0.1617	0.1171	0.0005
37: METHYLCYCLOPENTANE	0.1205	0.0821	NO DATA
38: 1-HEXENE	NO DATA	0.0050	NO DATA
40: N-HEXANE	0.3848	0.2436	0.0008
41: 3-METHYL-CIS-2-PENTENE	NO DATA	0.0088	NO DATA
42: CIS-3-HEXENE	0.1016	0.0568	NO DATA
43: CIS-2-HEXENE	0.0066	0.0084	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0452	0.0361	NO DATA
45: CYCLOHEXANE	0.0205	0.0101	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0134	0.0044	NO DATA
54: BENZENE	0.2141	0.2402	0.0323
57: 2,4-DIMETHYLPENTANE	0.3068	0.2310	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	0.0069	0.0092	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0160	0.0145	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0400	0.0401	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0890	0.0685	NO DATA
66: 3-ETHYL-1-PENTENE	NO DATA	0.0080	NO DATA
67: 2,3-DIMETHYLPENTANE	0.5430	0.3977	0.0020
70: 2-METHYLHEXANE	0.4218	0.3007	0.0015
71: 3-METHYLHEXANE	0.4229	0.3126	0.0016
72: 3-ETHYLPENTANE	0.0054	NO DATA	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0128	0.0097	NO DATA
74: METHYLCYCLOHEXANE	0.0762	0.0567	NO DATA
75: 3-METHYL-CIS-2-HEXENE	NO DATA	0.0027	NO DATA

64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0400	0.0401	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0890	0.0635	NO DATA
66: 3-ETHYL-1-PENTENE	NO DATA	0.0030	NO DATA
67: 2,3-DIMETHYLPENTANE	0.5430	0.3977	0.0020
70: 2-METHYLHEXANE	0.4218	0.3007	0.0015
71: 3-METHYLHEXANE	0.4229	0.3126	0.0016
72: 3-ETHYLPENTANE	0.0054	NO DATA	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0128	0.0097	NO DATA
74: METHYLCYCLOHEXANE	0.0762	0.0567	NO DATA
75: 3-METHYL-CIS-2-HEXENE	NO DATA	0.0027	NO DATA
76: 1-HEPTENE	0.0049	0.0058	NO DATA
77: 3-ETHYL-2-PENTENE	0.0424	0.0264	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0439	0.0270	NO DATA
82: N-HEPTANE	0.5428	0.3921	0.0029
83: TRANS-2-HEPTENE	0.0149	0.0135	NO DATA
84: TRANS-3-HEPTENE	0.0051	0.0081	NO DATA
85: C7H12 ISOMER	0.0063	0.0006	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	2.8452	2.2990	0.0149
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0182	0.0214	NO DATA
90: C7H12 ISOMER	NO DATA	0.0163	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	0.0033	NO DATA
94: C7H12 ISOMER	0.0427	0.0336	0.0002
95: TRIMETHYLCYCLOPENTANE	0.0242	0.0203	NO DATA
96: 2,2-DIMETHYLHEXANE	0.1021	0.0821	0.0026
98: 2,4-DIMETHYLHEXANE	0.4690	0.3730	0.0043
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.4929	0.3894	0.0060
100: TOLUENE	2.7531	2.8370	0.0312
101: 2,3,4-TRIMETHYLPENTANE	0.9245	NO DATA	0.0167
103: DIMETHYLCYCLOHEXANE	0.0044	0.0125	NO DATA
104: TRIMETHYLPENTANE	0.0469	0.0461	0.0006
106: 2,3-DIMETHYLHEXANE	0.4027	0.3226	0.0056
108: METHYL ETHYLCYCLOPENTANE	0.1182	0.0932	0.0016
110: *** UNKNOWN ***	0.0101	0.0085	NO DATA
111: 4-METHYLHEPTANE	0.3264	0.2483	0.0063
112: 2-METHYLHEPTANE	0.5286	0.4052	0.0106
113: 3-METHYLHEPTANE	0.5537	0.4279	0.0132
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	0.0077	0.0117	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0160	0.0213	0.0007
118: DIMETHYLCYCLOHEXANE	NO DATA	0.0044	NO DATA

119: DIMETHYLHEXENE	-1.1210	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	0.0070	0.0074	0.0007
122: METHYL ETHYLPENTANE	0.0188	0.0277	0.0003
123: C8H16 ISOMER	0.0347	0.0254	NO DATA
126: N-OCTANE	0.3722	0.2691	0.0156
127: C8H16 + C8H14 ISOMERS	0.0128	0.0187	0.0003
128: C8H16 + C8H14 ISOMERS	NO DATA	0.0075	0.0005
129: 2,2,5-TRIMETHYLHEXANE	0.3957	0.3378	0.0175
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	0.0060	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	0.0097	0.0130	0.0004
134: *** UNKNOWN ***	NO DATA	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	0.0065	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0694	0.0719	0.0032
137: C9H16 ISOMER	NO DATA	0.0149	NO DATA
138: C9H18 ISOMER	NO DATA	0.0100	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0787	0.0942	0.0048
141: ETHYLBENZENE	0.2057	0.1863	0.0149
143: 2-METHYL-4-ETHYLHEXANE	0.1414	0.1537	0.0104
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	0.0043	NO DATA
145: P-XYLENE	0.1806	0.1542	0.0135
146: M-XYLENE	0.5455	0.4437	0.0258
149: C9H16 ISOMER	0.0140	0.0204	0.0015
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490
151: METHYLETHYLCYCLOHEXANE	NO DATA	0.0034	NO DATA
152: 2-METHYLOCTANE	0.0911	0.1178	0.0091
153: O-XYLENE	0.2428	0.2098	0.0190
154: 4-METHYLOCTANE	0.1808	0.1719	0.0162
155: C9H18 ISOMER	NO DATA	0.0036	NO DATA
156: C9H16 + C9H18 ISOMERS	NO DATA	0.0009	NO DATA
158: C9H18 ISOMER	NO DATA	0.0006	NO DATA
159: C9H18 ISOMER	NO DATA	-1.1580	NO DATA
162: C9H18 ISOMER	NO DATA	-1.1630	NO DATA
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	0.0048	NO DATA
164: C9H18 ISOMER	NO DATA	0.0149	0.0010
165: N-NONANE	0.0460	0.0569	0.0083
166: *** UNKNOWN ***	NO DATA	0.0082	0.0010
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	0.0414	0.0053
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	-1.1690	-1.1690

171: ISOPROPYLBENZENE	0.0219	0.0250	0.0043
173: C10H22 ISOMER	NO DATA	-1.1740	-1.1740
174: C10H22 ISOMER	NO DATA	0.0042	0.0006
175: C10H22 ISOMER	NO DATA	0.0497	0.0230
176: C10H22 ISOMER	NO DATA	0.0151	0.0018
177: C10H22 ISOMER	0.0068	NO DATA	NO DATA
178: N-PROPYLBENZENE	0.0197	0.0309	0.0065
180: 2,3-DIMETHYLOCTANE	NO DATA	0.0118	0.0027
181: C10H22 ISOMER	NO DATA	0.0056	0.0022
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.1014	0.1141	0.0132
184: C10H22 ISOMER	NO DATA	0.0020	NO DATA
185: C10H22 ISOMER	NO DATA	-1.1860	-1.1860
186: C10H22 ISOMER	NO DATA	0.0080	0.0016
188: 1-METHYL-2-ETHYLBENZENE	0.0237	0.0216	0.0037
189: 1,3,5-TRIMETHYLBENZENE	0.0503	0.0525	0.0019
192: C10H22 ISOMER	NO DATA	0.0245	0.0045
193: 1,2,4-TRIMETHYLBENZENE	0.0795	0.0616	0.0043
195: C10H22 ISOMER	0.0087	0.0230	0.0036
201: N-DECANE	NO DATA	0.0018	NO DATA
203: METHYLSTYRENE OR INDAN	0.0199	0.0086	NO DATA
204: 1,2,3-TRIMETHYLBENZENE	0.0135	0.0140	NO DATA
205: C11H24 ISOMER	NO DATA	0.0012	NO DATA
206: C11H24 ISOMER	NO DATA	0.0025	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	0.0022	NO DATA
208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	0.0002	NO DATA
209: C11H24 ISOMER	NO DATA	0.0003	NO DATA
211: *** UNKNOWN ***	NO DATA	0.0010	NO DATA
212: C4 ALKYL BENZENE	NO DATA	0.0009	NO DATA
214: C4 ALKYL BENZENE	NO DATA	0.0013	NO DATA
215: C4 ALKYL BENZENE	NO DATA	-1.2140	NO DATA
216: C4 ALKYL BENZENE	NO DATA	0.0007	NO DATA
219: C11H24 ISOMER	NO DATA	-1.2200	NO DATA
220: C4 ALKYL BENZENE	NO DATA	0.0007	NO DATA
221: C11H24 ISOMER	NO DATA	-1.2200	NO DATA
223: C11H24 ISOMER	NO DATA	0.0072	0.0012
224: C4 ALKYL BENZENE	NO DATA	0.0033	NO DATA
228: C4 ALKYL BENZENE	NO DATA	0.0033	NO DATA
237: C11H24 ISOMER	NO DATA	0.0020	NO DATA
248: *** UNKNOWN ***	NO DATA	0.0329	0.0207
TOTAL FID WT. % HC ON CARBON	17.1491	14.0980	0.4441

UNKNOWN FID WT. % ON CARBON	0.0703	0.1704	0.0094

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 41: REPORT47 VAC DIST OF 0237 8-22-84
VARIABLE 11: REPORT55 VAC DIST OF 0237 8-22-84
VARIABLE 9: REPORT37 CS2 EXT OF 0237 8-22-84
VARIABLE 40: REPORT38 CS2 RE-EXT OF 0237 8-22-84

COMPOUNDS	REPORT47	REPORT55	REPORT37	REPORT38
6: ISO-BUTANE	0.0087	NO DATA	0.0002	0.0002
7: 1-BUTENE	-1.0080	NO DATA	-1.0090	-1.0080
8: ISO-BUTYLENE	0.0523	NO DATA	-1.0090	0.0015
9: N-BUTANE	0.0758	0.0433	0.0646	0.0021
11: TRANS-2-BUTENE	NO DATA	NO DATA	0.0017	NO DATA
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0009	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	NO DATA	0.0032	0.0010
15: ISO-PENTANE	0.3954	0.0500	0.0000	NO DATA
17: 2-METHYL-1-BUTENE	0.0048	NO DATA	NO DATA	NO DATA
18: N-PENTANE	0.2180	0.0518	0.1241	0.0002
19: TRANS-2-PENTENE	NO DATA	NO DATA	0.0141	NO DATA
21: ISOPRENE	NO DATA	NO DATA	0.0051	NO DATA
22: 2-METHYL-2-BUTENE	0.0450	0.0185	0.0092	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	NO DATA	0.0004	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0316	0.0134	0.0120	NO DATA
29: 3-METHYL-1-PENTENE	NO DATA	NO DATA	0.0006	NO DATA
31: 2,3-DIMETHYLBUTANE	0.1079	0.0681	0.0568	NO DATA
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0048	NO DATA	0.0036	NO DATA
33: 2-METHYLPENTANE	0.2819	0.1900	0.1424	NO DATA
35: 3-METHYLPENTANE	0.1477	0.1039	0.0767	NO DATA
37: METHYLCYCLOPENTANE	0.1081	0.0818	0.0584	0.0005
38: 1-HEXENE	NO DATA	NO DATA	0.0025	NO DATA
40: N-HEXANE	0.2316	0.1604	0.1175	0.0022
42: CIS-3-HEXENE	0.0810	0.0665	0.0431	NO DATA
43: CIS-2-HEXENE	NO DATA	NO DATA	0.0052	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0419	0.0234	0.0214	NO DATA
45: CYCLOHEXANE	0.0153	0.0112	0.0059	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0117	0.0086	0.0040	NO DATA
54: BENZENE	1.8141	0.8358	0.1770	0.0139
57: 2,4-DIMETHYLPENTANE	0.2122	0.1516	0.1021	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0031	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0021	NO DATA

64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0104	0.0063	0.0061	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0212	0.0155	0.0116	NO DATA
67: 2,3-DIMETHYLPENTANE	0.2121	0.1977	0.1374	NO DATA
70: 2-METHYLHEXANE	0.0971	0.0859	0.0527	NO DATA
71: 3-METHYLHEXANE	0.0930	0.0837	0.0542	NO DATA
72: 3-ETHYLPENTANE	NO DATA	NO DATA	0.0015	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0147	NO DATA	0.0029	NO DATA
74: METHYLCYCLOHEXANE	0.0203	0.0160	0.0126	NO DATA
75: 3-METHYL-CIS-2-HEXENE	NO DATA	NO DATA	0.0007	NO DATA
76: 1-HEPTENE	NO DATA	NO DATA	0.0012	NO DATA
77: 3-ETHYL-2-PENTENE	0.0101	0.0054	0.0069	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0089	0.0085	0.0055	NO DATA
82: N-HEPTANE	0.1141	0.1002	0.0558	0.0003
83: TRANS-2-HEPTENE	0.0035	NO DATA	0.0022	NO DATA
84: TRANS-3-HEPTENE	NO DATA	NO DATA	0.0013	NO DATA
85: C7H12 ISOMER	0.0049	NO DATA	0.0004	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	1.3392	1.2995	0.9594	0.0007
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0033	NO DATA	0.0039	NO DATA
90: C7H12 ISOMER	NO DATA	NO DATA	0.0023	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	NO DATA	0.0007	NO DATA
94: C7H12 ISOMER	0.0107	0.0103	0.0074	NO DATA
95: TRIMETHYLCYCLOPENTANE	0.0066	NO DATA	0.0042	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0313	0.0299	0.0257	NO DATA
98: 2,4-DIMETHYLHEXANE	0.1906	0.1876	0.1338	NO DATA
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.1546	0.1505	0.1078	NO DATA
100: TOLUENE	2.4807	2.2047	1.7939	0.0070
101: 2,3,4-TRIMETHYLPENTANE	-1.1000	0.3221	NO DATA	NO DATA
103: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0073	NO DATA
104: TRIMETHYLPENTANE	0.0051	0.0074	0.0190	0.0003
106: 2,3-DIMETHYLHEXANE	0.1956	0.1798	0.1431	NO DATA
108: METHYL ETHYLCYCLOPENTANE	0.0680	0.0497	0.0504	NO DATA
110: *** UNKNOWN ***	NO DATA	0.0039	0.0061	NO DATA
111: 4-METHYLHEPTANE	0.1075	0.1074	0.0723	NO DATA
112: 2-METHYLHEPTANE	0.1702	0.1664	0.1102	NO DATA
113: 3-METHYLHEPTANE	0.2098	0.2103	0.1262	0.0005
114: C8H14 ISOMER + UNKNOWN COMPOUND	NO DATA	NO DATA	0.0062	NO DATA
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	NO DATA	NO DATA	0.0043	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0084	0.0092	0.0130	0.0007
118: DIMETHYLCYCLOHEXANE	NO DATA	NO DATA	0.0016	NO DATA

119: DIMETHYLHEXENE	-1.1210	-1.1210	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	0.0066	0.0080	0.0071	0.0010
122: METHYL ETHYLPENTANE	0.0261	0.0107	0.0108	0.0005
123: C8H16 ISOMER	NO DATA	NO DATA	0.0129	0.0001
126: N-OCTANE	0.2069	0.2089	0.1324	0.0020
127: C8H16 + C8H14 ISOMERS	0.0074	0.0082	0.0102	0.0007
128: C8H16 + C8H14 ISOMERS	NO DATA	NO DATA	0.0040	0.0006
129: 2,2,5-TRIMETHYLHEXANE	0.1636	0.1676	0.1173	0.0003
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	NO DATA	0.0032	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	0.0069	NO DATA	0.0064	NO DATA
134: *** UNKNOWN ***	NO DATA	NO DATA	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	NO DATA	0.0039	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0475	0.0452	0.0368	NO DATA
137: C9H16 ISOMER	NO DATA	NO DATA	0.0099	NO DATA
138: C9H18 ISOMER	0.0102	NO DATA	0.0088	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400	NO DATA
140: 2,3,3-TRIMETHYLHEXANE	0.0739	0.0666	0.0529	NO DATA
141: ETHYLBENZENE	0.2707	0.2726	0.2146	0.0029
143: 2-METHYL-4-ETHYLHEXANE	0.1554	0.1543	0.1199	0.0007
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	NO DATA	0.0150	NO DATA
145: P-XYLENE	0.3509	0.3777	0.2808	0.0040
146: M-XYLENE	0.9356	0.9830	0.7174	0.0097
149: C9H16 ISOMER	0.0259	0.0205	0.0311	NO DATA
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490	NO DATA
151: METHYLETHYLCYCLOHEXANE	0.0170	NO DATA	0.0102	NO DATA
152: 2-METHYLOCTANE	0.1731	0.1621	0.1639	NO DATA
153: O-XYLENE	0.5933	0.6493	0.4929	0.0076
154: 4-METHYLOCTANE	0.3226	0.3462	0.2324	0.0013
155: C9H18 ISOMER	NO DATA	NO DATA	0.0093	NO DATA
156: C9H16 + C9H18 ISOMERS	NO DATA	0.0057	0.0033	NO DATA
158: C9H18 ISOMER	NO DATA	NO DATA	0.0083	0.0004
159: C9H18 ISOMER	NO DATA	NO DATA	-1.1580	-1.1580
162: C9H18 ISOMER	-1.1630	NO DATA	-1.1630	-1.1630
163: N- OR ISOPROPYL- CYCLOHEXANE	0.0140	NO DATA	0.0131	0.0003
164: C9H18 ISOMER	0.0187	0.0140	0.0185	NO DATA
165: N-NONANE	0.2214	0.2056	0.1489	0.0023
166: *** UNKNOWN ***	0.0112	NO DATA	0.0144	0.0009
167: *** UNKNOWN ***	NO DATA	NO DATA	0.0031	NO DATA
169: 2,2,4-TRIMETHYLHEPTANE	0.0718	0.0786	0.0552	0.0007

170: 3,3,5-TRIMETHYLHEPTANE	-1.1690	-1.1690	-1.1690	-1.1690
171: ISOPROPYLBENZENE	0.0716	0.0755	0.0593	0.0019
172: 5-METHYLNONANE	NO DATA	NO DATA	0.0033	NO DATA
173: C10H22 ISOMER	-1.1740	NO DATA	-1.1740	NO DATA
174: C10H22 ISOMER	0.0073	NO DATA	0.0142	NO DATA
175: C10H22 ISOMER	0.0193	0.0327	0.0330	0.0069
176: C10H22 ISOMER	0.0130	0.0138	0.0346	0.0036
177: C10H22 ISOMER	0.0528	0.0560	0.0468	0.0019
178: N-PROPYLBENZENE	0.2532	0.0405	0.1875	0.0064
180: 2,3-DIMETHYLOCTANE	NO DATA	NO DATA	0.0361	0.0024
181: C10H22 ISOMER	0.0225	0.0810	0.0203	0.0019
182: 1-METHYL-3 OR 4-ETHYLBENZENE	1.1501	1.3076	1.0573	0.0233
184: C10H22 ISOMER	NO DATA	NO DATA	0.0224	NO DATA
185: C10H22 ISOMER	-1.1860	-1.1860	-1.1860	-1.1860
186: C10H22 ISOMER	0.0095	0.0107	0.0474	0.0009
188: 1-METHYL-2-ETHYLBENZENE	0.2976	0.3509	0.2846	0.0094
189: 1,3,5-TRIMETHYLBENZENE	0.6087	0.6992	0.5464	0.0138
192: C10H22 ISOMER	0.1838	0.2095	0.1785	0.0060
193: 1,2,4-TRIMETHYLBENZENE	1.6136	1.9503	1.6069	0.0656
195: C10H22 ISOMER	0.0764	0.0854	0.0819	0.0017
201: N-DECANE	0.1058	0.1142	0.1186	0.0025
203: METHYLSTYRENE OR INDAN	0.1407	0.1435	0.1321	0.0064
204: 1,2,3-TRIMETHYLBENZENE	0.3403	0.4259	0.3987	0.0229
205: C11H24 ISOMER	NO DATA	NO DATA	0.0083	NO DATA
206: C11H24 ISOMER	0.0074	0.0078	0.0169	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	0.0429	0.0534	0.0508	0.0037
208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	NO DATA	0.0145	0.0005
209: C11H24 ISOMER	NO DATA	NO DATA	0.0081	NO DATA
210: C11H24 ISOMER	NO DATA	NO DATA	0.0114	NO DATA
211: *** UNKNOWN ***	0.0121	0.0166	0.0193	0.0005
212: C4 ALKYL BENZENE	0.0902	0.1087	0.1130	0.0057
214: C4 ALKYL BENZENE	0.2139	0.2352	0.2774	0.0168
215: C4 ALKYL BENZENE	-1.2140	-1.2140	-1.2140	-1.2140
216: C4 ALKYL BENZENE	0.1532	0.1830	0.2132	0.0138
219: C11H24 ISOMER	-1.2200	-1.2200	-1.2200	-1.2200
220: C4 ALKYL BENZENE	0.3333	0.3583	0.4558	0.0216
221: C11H24 ISOMER	-1.2200	-1.2200	-1.2200	-1.2200
223: C11H24 ISOMER	0.0269	0.0325	0.0449	0.0026
224: C4 ALKYL BENZENE	0.1491	0.1914	0.2323	0.0139
226: C11H24 ISOMER	0.1300	0.1650	0.2118	0.0131

228: C4 ALKYL BENZENE	0.2316	0.2454	0.3166	0.0227
229: C11H24 ISOMER	NO DATA	NO DATA	0.0922	NO DATA
230: *** UNKNOWN ***	NO DATA	0.0500	0.0196	NO DATA
231: N-UNDECANE	0.0312	0.0413	0.0564	NO DATA
237: C11H24 ISOMER	0.0123	0.0177	0.0371	0.0010
238: C2 ALKYLSTYRENE OR METHYLINDAN	0.0064	0.0141	0.0307	NO DATA
239: C2 ALKYLSTYRENE OR METHYLINDAN	0.0353	0.0298	0.0506	NO DATA
240: C5 ALKYL BENZENE	0.0410	0.0449	0.0965	NO DATA
241: 1,2,3,4-TETRAMETHYLBENZENE	0.0705	0.0854	0.1628	NO DATA
242: C2 ALKYL STYRENE OR METHYL INDA	0.1003	0.1191	0.1950	0.0075
247: C2 ALKYLSTRYENE OR METHYLINDAN	0.0000	NO DATA	0.0279	NO DATA
248: *** UNKNOWN ***	0.0260	NO DATA	NO DATA	NO DATA
249: C5 ALKYLBENZENE	0.0093	NO DATA	0.0643	0.0016
251: C5 ALKYLBENZENE	0.0194	NO DATA	0.0377	NO DATA
252: C5 ALKYLBENZENE	0.0181	NO DATA	NO DATA	NO DATA
253: 2-PHENYL-3-METHYLBUTANE	0.0108	NO DATA	0.0144	NO DATA
254: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0528	NO DATA
255: METHYLINDENE	NO DATA	NO DATA	0.0233	NO DATA
256: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0202	NO DATA
257: C5 ALKYLBENZENE	0.0073	NO DATA	0.0195	NO DATA
258: C3 ALKYL STYRENE OR C2 ALKYL IN	NO DATA	NO DATA	0.0413	NO DATA
260: C5 ALKYLBENZENE	NO DATA	NO DATA	0.0326	NO DATA
263: C3 ALKYLSTYRENE OR C2 ALKYLINDA	NO DATA	NO DATA	0.0213	NO DATA
TOTAL FID WT. % HC ON CARBON	20.1923	19.0939	18.9730	0.4003
UNKNOWN FID WT. % ON CARBON	0.2351	0.1374	0.3705	0.0307

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 24: REPORT48 VAC DIST OF 0198 8-1-84
VARIABLE 14: REPORT25 CS2 EXT OF 0198 8-1-84
VARIABLE 46: REPORT26 CS2 RE-EXT OF 0198 8-1-84

COMPOUNDS	REPORT48	REPORT25	REPORT26
6: ISO-BUTANE	NO DATA	0.0010	0.0001
7: 1-BUTENE	-1.0090	-1.0080	-1.0080
8: ISO-BUTYLENE	-1.0090	0.0124	0.0024
9: N-BUTANE	0.0767	0.0406	0.0083
11: TRANS-2-BUTENE	NO DATA	0.0023	NO DATA
12: CIS-2-BUTENE	NO DATA	0.0008	0.0006
13: 2,2-DIMETHYLPROPANE	NO DATA	0.0009	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	0.0021	0.0027
15: ISO-PENTANE	0.1351	NO DATA	NO DATA
18: N-PENTANE	0.1998	0.1151	0.0077
19: TRANS-2-PENTENE	NO DATA	0.0004	NO DATA
21: ISOPRENE	NO DATA	0.0007	NO DATA
22: 2-METHYL-2-BUTENE	0.0693	0.0093	0.0011
23: CYCLOPENTANE	-1.0220	-1.0220	-1.0220
28: 2,2-DIMETHYLBUTANE	0.0766	0.0172	0.0011
31: 2,3-DIMETHYLBUTANE	0.3033	0.0439	0.0027
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0116	0.0006	NO DATA
33: 2-METHYLPENTANE	0.9675	0.1174	0.0053
35: 3-METHYLPENTANE	0.5802	0.0638	0.0033
37: METHYLCYCLOPENTANE	0.4809	0.0317	0.0026
40: N-HEXANE	1.8786	0.0857	0.0035
42: CIS-3-HEXENE	0.2244	0.0059	NO DATA
43: CIS-2-HEXENE	0.0113	NO DATA	NO DATA
44: 1-METHYLCYCLOPENTENE	0.1205	0.0086	0.0009
45: CYCLOHEXANE	0.0168	NO DATA	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0256	NO DATA	NO DATA
54: BENZENE	2.2499	0.1795	0.0182
57: 2,4-DIMETHYLPENTANE	0.5076	0.0555	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0132	0.0007	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0216	0.0012	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0372	0.0031	NO DATA
67: 2,3-DIMETHYLPENTANE	0.4997	0.0450	0.0020
70: 2-METHYLHEXANE	0.1435	0.0120	NO DATA
71: 3-METHYLHEXANE	0.1419	0.0120	NO DATA

73: 1-CIS-2-DIMETHYLCYCLOPENTANE	NO DATA	0.0004	NO DATA
74: METHYLCYCLOHEXANE	0.0380	0.0034	NO DATA
82: N-HEPTANE	0.0962	0.0067	0.0330
87: 2,2,4-TRIMETHYLPENTANE	4.0076	0.4734	NO DATA
90: C7H12 ISOMER	NO DATA	0.0038	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	0.0166	0.0014	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0830	0.0079	0.0034
98: 2,4-DIMETHYLHEXANE	0.4025	0.0445	0.0022
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.2627	0.0298	0.0011
100: TOLUENE	7.0243	0.7432	0.0418
101: 2,3,4-TRIMETHYLPENTANE	-1.1000	NO DATA	0.0105
104: TRIMETHYLPENTANE	0.0147	0.0012	0.0021
106: 2,3-DIMETHYLHEXANE	0.3229	0.0375	NO DATA
108: METHYL ETHYLCYCLOPENTANE	0.0783	0.0063	NO DATA
111: 4-METHYLHEPTANE	0.0236	0.0021	NO DATA
112: 2-METHYLHEPTANE	0.0346	0.0032	NO DATA
113: 3-METHYLHEPTANE	0.0410	0.0037	NO DATA
126: N-OCTANE	0.0230	0.0020	NO DATA
129: 2,2,5-TRIMETHYLHEXANE	0.1847	0.0266	0.0044
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	0.0011	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0233	0.0030	NO DATA
141: ETHYLBENZENE	0.0675	0.0116	0.0024
143: 2-METHYL-4-ETHYLHEXANE	NO DATA	0.0016	NO DATA
145: P-XYLENE	0.0823	0.0071	0.0038
146: M-XYLENE	0.1958	0.0207	0.0056
153: O-XYLENE	0.0962	0.0097	0.0040
154: 4-METHYLOCTANE	0.0051	0.0005	NO DATA
165: N-NONANE	0.0119	0.0006	NO DATA
171: ISOPROPYLBENZENE	NO DATA	0.0025	NO DATA
173: C10H22 ISOMER	NO DATA	NO DATA	-1.1740
174: C10H22 ISOMER	NO DATA	NO DATA	0.0652
175: C10H22 ISOMER	0.0138	0.0308	NO DATA
178: N-PROPYLBENZENE	0.0115	0.0023	NO DATA
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.0616	0.0096	0.0011
188: 1-METHYL-2-ETHYLBENZENE	0.0135	0.0023	0.0006
189: 1,3,5-TRIMETHYLBENZENE	0.0252	0.0039	NO DATA
192: C10H22 ISOMER	NO DATA	0.0032	NO DATA
193: 1,2,4-TRIMETHYLBENZENE	0.0459	0.0056	0.0007
195: C10H22 ISOMER	NO DATA	0.0020	NO DATA
203: METHYLSTYRENE OR INDAN	0.0162	0.0009	NO DATA

204: 1,2,3-TRIMETHYLBENZENE	NO DATA	0.0015	NO DATA
245: C11H16 ISOMER + UNKNOWN COMPOUN	NO DATA	NO DATA	0.0341
249: C5 ALKYLBENZENE	NO DATA	0.0108	NO DATA
TOTAL FID WT. % HC ON CARBON	22.1377	2.4096	0.2815
UNKNOWN FID WT. % ON CARBON	0.0212	0.0120	0.0029

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 1: REPORT49 VAC DIST OF 0198 7-23-84
VARIABLE 39: REPORT29 CS2 EXT OF 0198 7-23-84
VARIABLE 28: REPORT30 CS2 RE-EXT OF 0198 7-22-84

COMPOUNDS	REPORT49	REPORT29	REPORT30
6: ISO-BUTANE	0.0038	NO DATA	NO DATA
7: 1-BUTENE	-1.0080	-1.0090	-1.0080
8: ISO-BUTYLENE	0.0222	-1.0090	0.0023
9: N-BUTANE	0.0285	0.0380	0.0077
12: CIS-2-BUTENE	NO DATA	0.0008	NO DATA
14: 3-METHYL-1-BUTENE	NO DATA	0.0028	0.0019
15: ISO-PENTANE	0.5085	0.0000	NO DATA
18: N-PENTANE	0.3027	0.1674	0.0004
19: TRANS-2-PENTENE	NO DATA	0.0141	NO DATA
21: ISOPRENE	NO DATA	0.0061	0.0004
22: 2-METHYL-2-BUTENE	0.0578	0.0117	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0473	0.0215	NO DATA
29: 3-METHYL-1-PENTENE	NO DATA	0.0015	NO DATA
31: 2,3-DIMETHYLBUTANE	0.2454	0.1448	0.0005
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	NO DATA	0.0034	NO DATA
33: 2-METHYLPENTANE	0.6201	0.3660	0.0003
34: C6H10 ISOMER	NO DATA	NO DATA	0.0003
35: 3-METHYLPENTANE	0.3847	0.2444	0.0003
37: METHYLCYCLOPENTANE	0.2959	0.1971	NO DATA
38: 1-HEXENE	NO DATA	0.0082	NO DATA
39: 2-ETHYL-1-BUTENE	NO DATA	0.0018	NO DATA
40: N-HEXANE	0.6735	0.3222	0.0006
42: CIS-3-HEXENE	0.0801	0.0412	NO DATA
43: CIS-2-HEXENE	NO DATA	0.0055	NO DATA
44: 1-METHYLCYCLOPENTENE	0.1060	0.0921	NO DATA
45: CYCLOHEXANE	0.0352	0.0222	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0092	0.0052	NO DATA
54: BENZENE	1.5706	0.2706	0.0334
57: 2,4-DIMETHYLPENTANE	0.4013	0.2587	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	0.0063	0.0121	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0162	0.0124	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0484	0.0428	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0958	0.0797	NO DATA

121: C8H16 ISOMER	NO DATA	0.0092	0.0009
122: METHYL ETHYLPENTANE	0.0172	0.0246	NO DATA
123: C8H16 ISOMER	NO DATA	0.0238	NO DATA
126: N-OCTANE	0.2356	0.2466	0.0188
127: C8H16 + C8H14 ISOMERS	0.0081	0.0142	0.0007
128: C8H16 + C8H14 ISOMERS	NO DATA	0.0053	0.0004
129: 2,2,5-TRIMETHYLHEXANE	0.3026	0.2729	0.0198
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	0.0044	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	NO DATA	0.0097	0.0007
134: *** UNKNOWN ***	NO DATA	-1.1350	-1.1350
135: DIMETHYLHEPTENE	NO DATA	0.0041	0.0006
136: 2,3,5-TRIMETHYLHEXANE	0.0511	0.0531	0.0044
137: C9H16 ISOMER	NO DATA	0.0116	0.0007
138: C9H18 ISOMER	NO DATA	0.0031	0.0006
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0671	0.0675	0.0091
141: ETHYLBENZENE	0.2006	0.1935	0.0215
143: 2-METHYL-4-ETHYLHEXANE	0.1192	0.1461	0.0182
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	0.0101	0.0012
145: P-XYLENE	0.1869	0.1836	0.0284
146: M-XYLENE	0.5262	0.4892	0.0669
149: C9H16 ISOMER	0.0145	0.0266	0.0028
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490
151: METHYLETHYLCYCLOHEXANE	NO DATA	0.0065	NO DATA
152: 2-METHYLOCTANE	0.0884	0.1323	0.0186
153: O-XYLENE	0.2536	0.2603	0.0492
154: 4-METHYLOCTANE	0.1803	0.1855	0.0338
155: C9H18 ISOMER	NO DATA	0.0061	NO DATA
156: C9H16 + C9H18 ISOMERS	NO DATA	0.0012	NO DATA
158: C9H18 ISOMER	NO DATA	0.0016	0.0008
159: C9H18 ISOMER	NO DATA	-1.1580	-1.1580
162: C9H18 ISOMER	NO DATA	-1.1630	-1.1630
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	0.0081	0.0021
164: C9H18 ISOMER	NO DATA	0.0132	0.0024
165: N-NONANE	0.0663	0.0728	0.0326
166: *** UNKNOWN ***	NO DATA	0.0099	0.0041
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	0.0507	0.0130
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	-1.1690	-1.1690
171: ISOPROPYLBENZENE	0.0254	0.0318	0.0096
173: C10H22 ISOMER	NO DATA	0.0027	-1.1740

174: C10H22 ISOMER	NO DATA	0.0059	0.0023
175: C10H22 ISOMER	NO DATA	0.0296	0.0298
176: C10H22 ISOMER	NO DATA	0.0206	0.0042
177: C10H22 ISOMER	0.0091	NO DATA	NO DATA
178: N-PROPYLBENZENE	0.0341	0.0568	0.0220
180: 2,3-DIMETHYLOCTANE	NO DATA	0.0161	0.0098
181: C10H22 ISOMER	NO DATA	0.0079	0.0067
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.1785	0.2561	0.0860
184: C10H22 ISOMER	NO DATA	0.0034	0.0050
185: C10H22 ISOMER	NO DATA	-1.1860	-1.1860
186: C10H22 ISOMER	NO DATA	0.0067	0.0065
188: 1-METHYL-2-ETHYLBENZENE	0.0394	0.0560	0.0245
189: 1,3,5-TRIMETHYLBENZENE	0.0840	0.1213	0.0368
192: C10H22 ISOMER	NO DATA	0.0480	0.0188
193: 1,2,4-TRIMETHYLBENZENE	0.1462	0.2555	0.1036
195: C10H22 ISOMER	0.0118	0.0306	0.0085
201: N-DECANE	NO DATA	0.0150	0.0024
203: METHYLSTYRENE OR INDAN	NO DATA	0.0260	0.0123
204: 1,2,3-TRIMETHYLBENZENE	0.0136	0.0588	0.0285
205: C11H24 ISOMER	NO DATA	0.0025	0.0012
206: C11H24 ISOMER	NO DATA	0.0035	0.0016
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	0.0084	0.0055
208: 1-METHYL-4-ISOPROPYLBENZENE	NO DATA	0.0008	0.0007
209: C11H24 ISOMER	NO DATA	0.0016	0.0003
211: *** UNKNOWN ***	NO DATA	0.0035	0.0010
212: C4 ALKYL BENZENE	NO DATA	0.0148	0.0058
214: C4 ALKYL BENZENE	NO DATA	0.0333	0.0150
215: C4 ALKYL BENZENE	NO DATA	-1.2140	-1.2140
216: C4 ALKYL BENZENE	NO DATA	0.0264	0.0113
219: C11H24 ISOMER	NO DATA	-1.2200	-1.2200
220: C4 ALKYL BENZENE	NO DATA	0.0484	0.0152
221: C11H24 ISOMER	NO DATA	-1.2200	-1.2200
223: C11H24 ISOMER	NO DATA	0.0103	0.0036
224: C4 ALKYL BENZENE	NO DATA	0.0214	0.0043
226: C11H24 ISOMER	NO DATA	0.0196	0.0013
228: C4 ALKYL BENZENE	NO DATA	0.0092	0.0009
230: *** UNKNOWN ***	NO DATA	0.0332	0.0042
237: C11H24 ISOMER	NO DATA	0.0056	0.0013
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	0.0094	NO DATA
249: C5 ALKYLBENZENE	NO DATA	0.0096	0.0142

TOTAL FID WT. % HC ON CARBON	13.9633	15.3176	1.0342
UNKNOWN FID WT. % ON CARBON	0.0722	0.2350	0.0272

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 20: REPORT33 CS2 EXT OF 0139 8-2-84
VARIABLE 6: REPORT40 CS2 EXT OF 0139 8-2-84
VARIABLE 15: REPORT34 CS2 RE-EXT OF 0139 8-2-84
VARIABLE 37: REPORT41 CS2 RE-EXT OF 0139 8-2-84

COMPOUNDS	REPORT33	REPORT40	REPORT34	REPORT41
6: ISO-BUTANE	0.0005	0.0002	0.0002	0.0012
7: 1-BUTENE	-1.0080	-1.0080	-1.0080	-1.0080
8: ISO-BUTYLENE	0.0032	0.0022	0.0024	0.0051
9: N-BUTANE	0.0165	0.0067	0.0080	0.0074
12: CIS-2-BUTENE	NO DATA	NO DATA	0.0006	0.0002
13: 2,2-DIMETHYLPROPANE	0.0007	NO DATA	0.0022	NO DATA
14: 3-METHYL-1-BUTENE	0.0016	0.0011	NO DATA	0.0046
18: N-PENTANE	0.0864	0.0039	0.0007	0.0022
22: 2-METHYL-2-BUTENE	0.0083	0.0010	NO DATA	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	NO DATA	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0078	0.0008	NO DATA	NO DATA
31: 2,3-DIMETHYLBUTANE	0.0176	0.0024	0.0006	0.0007
33: 2-METHYLPENTANE	0.0396	0.0065	0.0018	0.0023
35: 3-METHYLPENTANE	0.0240	0.0045	0.0013	0.0016
37: METHYLCYCLOPENTANE	0.0120	0.0043	0.0011	0.0007
40: N-HEXANE	0.0306	0.0155	0.0154	0.0044
44: 1-METHYLCYCLOPENTENE	0.0031	0.0011	NO DATA	NO DATA
54: BENZENE	0.0707	0.0343	0.0391	0.0306
57: 2,4-DIMETHYLPENTANE	0.0207	0.0090	NO DATA	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0008	NO DATA	NO DATA	NO DATA
67: 2,3-DIMETHYLPENTANE	0.0129	0.0048	0.0014	0.0020
70: 2-METHYLHEXANE	0.0034	0.0012	NO DATA	NO DATA
71: 3-METHYLHEXANE	0.0034	0.0013	NO DATA	0.0008
74: METHYLCYCLOHEXANE	0.0009	NO DATA	NO DATA	NO DATA
82: N-HEPTANE	0.0021	0.0009	NO DATA	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	0.1453	0.0675	0.0334	0.0291
96: 2,2-DIMETHYLHEXANE	0.0024	0.0012	0.0007	0.0015
98: 2,4-DIMETHYLHEXANE	0.0142	0.0075	0.0022	0.0023
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.0093	0.0049	0.0010	0.0012
100: TOLUENE	0.2767	0.1436	0.0651	0.0318
101: 2,3,4-TRIMETHYLPENTANE	NO DATA	NO DATA	0.0078	NO DATA
106: 2,3-DIMETHYLHEXANE	0.0116	0.0066	0.0017	0.0024
108: METHYL ETHYLCYCLOPENTANE	0.0018	0.0010	NO DATA	NO DATA

111: 4-METHYLHEPTANE	0.0006	NO DATA	NO DATA	NO DATA
112: 2-METHYLHEPTANE	0.0005	NO DATA	NO DATA	NO DATA
113: 3-METHYLHEPTANE	0.0004	0.0004	NO DATA	NO DATA
117: METHYL ETHYLCYCLOPENTANE	NO DATA	0.0010	NO DATA	0.0008
119: DIMETHYLHEXENE	NO DATA	-1.1210	NO DATA	-1.1210
120: OCTENE	NO DATA	-1.1210	NO DATA	-1.1210
121: C8H16 ISOMER	NO DATA	0.0015	NO DATA	0.0010
122: METHYL ETHYLPENTANE	NO DATA	0.0008	NO DATA	0.0005
123: C8H16 ISOMER	NO DATA	NO DATA	NO DATA	0.0003
126: N-OCTANE	NO DATA	0.0021	NO DATA	0.0014
127: C8H16 + C8H14 ISOMERS	NO DATA	0.0006	NO DATA	0.0010
128: C8H16 + C8H14 ISOMERS	NO DATA	0.0005	NO DATA	0.0010
129: 2,2,5-TRIMETHYLHEXANE	0.0036	0.0057	0.0024	0.0027
136: 2,3,5-TRIMETHYLHEXANE	0.0008	NO DATA	NO DATA	NO DATA
141: ETHYLBENZENE	0.0055	0.0038	0.0026	0.0029
145: P-XYLENE	0.0040	0.0024	0.0026	0.0040
146: M-XYLENE	0.0108	0.0067	0.0055	0.0074
153: O-XYLENE	0.0058	0.0033	0.0035	0.0044
165: N-NONANE	0.0008	NO DATA	NO DATA	0.0022
171: ISOPROPYLBENZENE	0.0017	0.0009	NO DATA	NO DATA
175: C10H22 ISOMER	0.0046	0.0038	0.0048	0.0219
176: C10H22 ISOMER	NO DATA	0.0015	NO DATA	NO DATA
177: C10H22 ISOMER	NO DATA	0.0005	NO DATA	NO DATA
178: N-PROPYLBENZENE	0.0021	0.0019	0.0008	0.0008
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.0034	0.0055	0.0022	0.0030
188: 1-METHYL-2-ETHYLBENZENE	0.0021	0.0017	0.0008	0.0010
189: 1,3,5-TRIMETHYLBENZENE	0.0025	0.0026	NO DATA	0.0011
192: C10H22 ISOMER	0.0010	0.0016	0.0007	0.0013
193: 1,2,4-TRIMETHYLBENZENE	0.0031	0.0036	0.0017	0.0036
195: C10H22 ISOMER	0.0013	0.0012	NO DATA	NO DATA
203: METHYLSTYRENE OR INDAN	NO DATA	NO DATA	NO DATA	0.0025
204: 1,2,3-TRIMETHYLBENZENE	NO DATA	0.0009	NO DATA	0.0009
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	NO DATA	NO DATA	0.0013
248: *** UNKNOWN ***	NO DATA	NO DATA	NO DATA	0.0120
TOTAL FID WT. % HC ON CARBON	0.3978	0.3956	0.2163	0.2631
UNKNOWN FID WT. % ON CARBON	0.0000	0.0021	0.0019	0.0022

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 49: REPORT53 VAC DIST OF 0200 7-31-84
VARIABLE 21: REPORT42 CS2 RE-EXT OF 0200 7-31-84

COMPOUNDS	REPORT53	REPORT42
6: ISO-BUTANE	0.0063	0.0002
7: 1-BUTENE	-1.0080	-1.0080
8: ISO-BUTYLENE	0.0339	0.0017
9: N-BUTANE	0.0424	0.0039
14: 3-METHYL-1-BUTENE	NO DATA	0.0013
15: ISO-PENTANE	0.7531	NO DATA
17: 2-METHYL-1-BUTENE	0.0038	NO DATA
18: N-PENTANE	0.3711	0.0007
22: 2-METHYL-2-BUTENE	0.0586	NO DATA
23: CYCLOPENTANE	-1.0220	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0515	NO DATA
31: 2,3-DIMETHYLBUTANE	0.1900	0.0005
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	0.0043	NO DATA
33: 2-METHYLPENTANE	0.5149	0.0012
35: 3-METHYLPENTANE	0.3035	0.0009
37: METHYLCYCLOPENTANE	0.1838	NO DATA
38: 1-HEXENE	0.0042	NO DATA
40: N-HEXANE	0.3923	0.0023
42: CIS-3-HEXENE	0.0897	NO DATA
43: CIS-2-HEXENE	0.0073	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0561	NO DATA
45: CYCLOHEXANE	0.0359	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0120	NO DATA
54: BENZENE	0.9439	0.0454
57: 2,4-DIMETHYLPENTANE	0.2823	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0108	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0301	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0546	0.0003
67: 2,3-DIMETHYLPENTANE	0.3497	0.0013
70: 2-METHYLHEXANE	0.2708	0.0022
71: 3-METHYLHEXANE	0.2430	0.0020
72: 3-ETHYLPENTANE	0.0043	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0139	NO DATA
74: METHYLCYCLOHEXANE	0.0351	NO DATA
77: 3-ETHYL-2-PENTENE	0.0126	NO DATA

78:	C7H12 ISOMER	-1.0770	NO DATA
79:	ETHYLCYCLOPENTANE	0.0741	NO DATA
82:	N-HEPTANE	0.2454	0.0039
83:	TRANS-2-HEPTENE	0.0082	NO DATA
87:	2,2,4-TRIMETHYLPENTANE	1.8072	0.0013
88:	1,1,3-TRIMETHYLCYCLOPENTANE	0.0072	NO DATA
94:	C7H12 ISOMER	0.0201	NO DATA
95:	TRIMETHYLCYCLOPENTANE	0.0094	NO DATA
96:	2,2-DIMETHYLHEXANE	0.0430	0.0007
98:	2,4-DIMETHYLHEXANE	0.2548	0.0006
99:	2,5-DIMETHYLHEXANE + C8H16 ISOME	0.2354	0.0012
100:	TOLUENE	1.7237	0.0313
101:	2,3,4-TRIMETHYLPENTANE	0.3617	NO DATA
104:	TRIMETHYLPENTANE	0.0254	NO DATA
106:	2,3-DIMETHYLHEXANE	0.1954	0.0010
108:	METHYL ETHYLCYCLOPENTANE	0.0584	NO DATA
111:	4-METHYLHEPTANE	0.1461	0.0011
112:	2-METHYLHEPTANE	0.2455	NO DATA
113:	3-METHYLHEPTANE	0.2747	0.0074
117:	METHYL ETHYLCYCLOPENTANE	0.0096	0.0005
119:	DIMETHYLHEXENE	-1.1210	-1.1210
120:	OCTENE	-1.1210	-1.1210
121:	C8H16 ISOMER	0.0056	0.0007
126:	N-OCTANE	0.2120	0.0079
127:	C8H16 + C8H14 ISOMERS	0.0078	0.0011
128:	C8H16 + C8H14 ISOMERS	NO DATA	0.0003
129:	2,2,5-TRIMETHYLHEXANE	0.1877	0.0024
136:	2,3,5-TRIMETHYLHEXANE	0.0352	0.0006
138:	C9H18 ISOMER	0.0051	NO DATA
139:	4-ETHYL-3-HEPTENE	-1.1400	NO DATA
140:	2,3,3-TRIMETHYLHEXANE	0.0516	NO DATA
141:	ETHYLBENZENE	0.1915	0.0175
143:	2-METHYL-4-ETHYLHEXANE	0.1014	0.0028
145:	P-XYLENE	0.2248	0.0294
146:	M-XYLENE	0.5919	0.0579
149:	C9H16 ISOMER	0.0133	NO DATA
150:	2-METHYLOCTANE	-1.1490	NO DATA
152:	2-METHYLOCTANE	0.0905	0.0025
153:	O-XYLENE	0.3439	0.0498
154:	4-METHYLOCTANE	0.1924	0.0059

165:	N-NONANE	0.0896	0.0081
169:	2,2,4-TRIMETHYLHEPTANE	0.0447	0.0033
170:	3,3,5-TRIMETHYLHEPTANE	-1.1690	-1.1690
171:	ISOPROPYLBENZENE	0.0368	0.0060
175:	C10H22 ISOMER	NO DATA	0.0188
177:	C10H22 ISOMER	0.0158	0.0032
178:	N-PROPYLBENZENE	0.0827	0.0209
180:	2,3-DIMETHYLOCTANE	0.0131	NO DATA
181:	C10H22 ISOMER	NO DATA	0.0018
182:	1-METHYL-3 OR 4-ETHYLBENZENE	0.4137	0.0913
185:	C10H22 ISOMER	NO DATA	-1.1860
186:	C10H22 ISOMER	NO DATA	0.0017
188:	1-METHYL-2-ETHYLBENZENE	0.1077	0.0301
189:	1,3,5-TRIMETHYLBENZENE	0.2178	0.0405
192:	C10H22 ISOMER	0.0552	0.0084
193:	1,2,4-TRIMETHYLBENZENE	0.5240	0.1781
195:	C10H22 ISOMER	0.0315	0.0037
201:	N-DECANE	0.0186	0.0029
203:	METHYLSTYRENE OR INDAN	0.0351	0.0108
204:	1,2,3-TRIMETHYLBENZENE	0.1026	0.0448
206:	C11H24 ISOMER	NO DATA	0.0009
207:	1-METHYL-3-ISOPROPYLBENZENE	0.0125	0.0082
208:	1-METHYL-4-ISOPROPYLBENZENE	NO DATA	0.0016
211:	*** UNKNOWN ***	NO DATA	0.0005
212:	C4 ALKYL BENZENE	0.0175	0.0093
214:	C4 ALKYL BENZENE	0.0240	0.0289
215:	C4 ALKYL BENZENE	-1.2140	-1.2140
216:	C4 ALKYL BENZENE	0.0125	0.0222
217:	C11H24 ISOMER	NO DATA	0.0006
218:	C11H24 ISOMER	NO DATA	-1.2170
219:	C11H24 ISOMER	-1.2200	-1.2200
220:	C4 ALKYL BENZENE	0.0188	0.0376
221:	C11H24 ISOMER	-1.2200	-1.2200
223:	C11H24 ISOMER	NO DATA	0.0031
224:	C4 ALKYL BENZENE	NO DATA	0.0228
226:	C11H24 ISOMER	NO DATA	0.0200
228:	C4 ALKYL BENZENE	NO DATA	0.0346
230:	*** UNKNOWN ***	NO DATA	0.0009
231:	N-UNDECANE	NO DATA	0.0076
237:	C11H24 ISOMER	NO DATA	0.0015

238: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	0.0027
239: C2 ALKYLSTYRENE OR METHYLINDAN	NO DATA	0.0078
240: C5 ALKYL BENZENE	NO DATA	0.0052
241: 1,2,3,4-TETRAMETHYLBENZENE	NO DATA	0.0225
242: C2 ALKYL STYRENE OR METHYL INDA	NO DATA	0.0262
245: C11H16 ISOMER + UNKNOWN COMPOUN	NO DATA	0.0000
247: C2 ALKYLSTRYENE OR METHYLINDAN	NO DATA	0.0037
248: *** UNKNOWN ***	NO DATA	0.0101
249: C5 ALKYLBENZENE	NO DATA	0.0049
251: C5 ALKYLBENZENE	NO DATA	0.0026
253: 2-PHENYL-3-METHYLBUTANE	NO DATA	0.0032
TOTAL FID WT. % HC ON CARBON	15.2261	1.0701
UNKNOWN FID WT. % ON CARBON	0.0361	0.0137

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 33: REPORT54 VAC DIST OF 0149 8-2-84
VARIABLE 23: REPORT39 CS2 EXT OF 0149 8-2-84

COMPOUNDS	REPORT54	REPORT39
6: ISO-BUTANE	NO DATA	0.0002
7: 1-BUTENE	NO DATA	-1.0080
8: ISO-BUTYLENE	NO DATA	0.0065
9: N-BUTANE	NO DATA	0.0213
11: TRANS-2-BUTENE	NO DATA	0.0017
12: CIS-2-BUTENE	NO DATA	0.0008
14: 3-METHYL-1-BUTENE	NO DATA	0.0027
15: ISO-PENTANE	0.0560	0.0000
18: N-PENTANE	0.0433	0.1243
19: TRANS-2-PENTENE	NO DATA	0.0008
21: ISOPRENE	NO DATA	0.0007
22: 2-METHYL-2-BUTENE	0.0093	0.0050
23: CYCLOPENTANE	-1.0220	-1.0220
28: 2,2-DIMETHYLBUTANE	0.0144	0.0134
29: 3-METHYL-1-PENTENE	NO DATA	0.0007
31: 2,3-DIMETHYLBUTANE	0.0765	0.0538
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	NO DATA	0.0009
33: 2-METHYLPENTANE	0.2087	0.1271
35: 3-METHYLPENTANE	0.1214	0.0681
37: METHYLCYCLOPENTANE	0.0704	0.0318
38: 1-HEXENE	NO DATA	0.0010
40: N-HEXANE	0.1729	0.0850
42: CIS-3-HEXENE	0.0298	0.0127
43: CIS-2-HEXENE	NO DATA	0.0008
44: 1-METHYLCYCLOPENTENE	0.0247	0.0132
45: CYCLOHEXANE	0.0124	0.0030
46: 3-METHYL-TRANS-2-PENTENE	0.0035	0.0011
54: BENZENE	0.5410	0.0673
57: 2,4-DIMETHYLPENTANE	0.1718	0.0709
59: 2,4 DIMETHYL-1-PENTENE	NO DATA	0.0010
61: 3,4-DIMETHYL-1-PENTENE	0.0060	0.0025
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0120	0.0052
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0232	0.0094
67: 2,3-DIMETHYLPENTANE	0.2094	0.0868
70: 2-METHYLHEXANE	0.1819	0.0711

71: 3-METHYLHEXANE	0.1618	0.0652
72: 3-ETHYLPENTANE	NO DATA	0.0010
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	NO DATA	0.0016
74: METHYLCYCLOHEXANE	0.0132	0.0061
76: 1-HEPTENE	NO DATA	0.0018
77: 3-ETHYL-2-PENTENE	0.0055	0.0046
78: C7H12 ISOMER	-1.0770	-1.0770
79: ETHYLCYCLOPENTANE	0.0170	0.0062
82: N-HEPTANE	0.2037	0.0733
83: TRANS-2-HEPTENE	0.0073	0.0023
84: TRANS-3-HEPTENE	NO DATA	0.0009
87: 2,2,4-TRIMETHYLPENTANE	1.5551	0.6684
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0064	0.0032
89: C8H16 ISOMER	NO DATA	0.0014
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	0.0009
94: C7H12 ISOMER	0.0241	0.0098
95: TRIMETHYLCYCLOPENTANE	0.0109	0.0048
96: 2,2-DIMETHYLHEXANE	0.0396	0.0176
98: 2,4-DIMETHYLHEXANE	0.2422	0.0994
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.2239	0.0938
100: TOLUENE	1.1448	0.5000
101: 2,3,4-TRIMETHYLPENTANE	0.3476	0.1638
103: DIMETHYLCYCLOHEXANE	NO DATA	0.0020
104: TRIMETHYLPENTANE	0.0189	0.0122
105: C8H18 ISOMER	0.0103	NO DATA
106: 2,3-DIMETHYLHEXANE	0.1938	0.0829
108: METHYL ETHYLCYCLOPENTANE	0.0660	0.0258
110: *** UNKNOWN ***	NO DATA	0.0026
111: 4-METHYLHEPTANE	0.1763	0.0722
112: 2-METHYLHEPTANE	0.3007	0.1251
113: 3-METHYLHEPTANE	0.3287	0.1296
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	0.0041	0.0047
117: METHYL ETHYLCYCLOPENTANE	0.0109	0.0070
119: DIMETHYLHEXENE	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210
121: C8H16 ISOMER	0.0071	0.0048
122: METHYL ETHYLPENTANE	0.0132	0.0057
123: C8H16 ISOMER	0.0270	0.0121
126: N-OCTANE	0.2490	0.0991
127: C8H16 + C8H14 ISOMERS	0.0106	0.0065

128:	C8H16 + C8H14 ISOMERS	NO DATA	0.0027
129:	2,2,5-TRIMETHYLHEXANE	0.1885	0.0846
132:	2,2,4-TRIMETHYLHEXANE	NO DATA	0.0022
133:	2,2,4- OR 3,3,4-TRIMETHYLHEXANE	0.0058	0.0036
134:	*** UNKNOWN ***	-1.1350	-1.1350
135:	DIMETHYLHEPTENE	0.0053	0.0024
136:	2,3,5-TRIMETHYLHEXANE	0.0377	0.0173
137:	C9H16 ISOMER	NO DATA	0.0051
138:	C9H18 ISOMER	0.0063	0.0054
139:	4-ETHYL-3-HEPTENE	-1.1400	-1.1400
140:	2,3,3-TRIMETHYLHEXANE	0.0560	0.0302
141:	ETHYLBENZENE	0.2042	0.1023
143:	2-METHYL-4-ETHYLHEXANE	0.1081	0.0529
144:	2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	0.0020
145:	P-XYLENE	0.2492	0.1230
146:	M-XYLENE	0.6565	0.3167
149:	C9H16 ISOMER	0.0145	0.0082
150:	2-METHYLOCTANE	-1.1490	-1.1490
151:	METHYLETHYLCYCLOHEXANE	NO DATA	0.0010
152:	2-METHYLOCTANE	0.0953	0.0676
153:	O-XYLENE	0.3548	0.1865
154:	4-METHYLOCTANE	0.1929	0.1050
155:	C9H18 ISOMER	NO DATA	0.0026
156:	C9H16 + C9H18 ISOMERS	NO DATA	0.0011
162:	C9H18 ISOMER	NO DATA	-1.1630
163:	N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	0.0057
164:	C9H18 ISOMER	NO DATA	0.0066
165:	N-NONANE	0.0837	0.0520
166:	*** UNKNOWN ***	NO DATA	0.0061
167:	*** UNKNOWN ***	NO DATA	0.0014
169:	2,2,4-TRIMETHYLHEPTANE	0.0389	0.0253
170:	3,3,5-TRIMETHYLHEPTANE	-1.1690	-1.1690
171:	ISOPROPYLBENZENE	0.0327	0.0213
173:	C10H22 ISOMER	NO DATA	-1.1740
174:	C10H22 ISOMER	NO DATA	0.0024
175:	C10H22 ISOMER	NO DATA	0.0157
176:	C10H22 ISOMER	0.0042	0.0073
177:	C10H22 ISOMER	0.0144	NO DATA
178:	N-PROPYLBENZENE	0.0740	0.0530
180:	2,3-DIMETHYLOCTANE	0.0122	0.0102

181:	C10H22 ISOMER	0.0075	0.0053
182:	1-METHYL-3 OR 4-ETHYLBENZENE	0.3668	0.2778
185:	C10H22 ISOMER	NO DATA	0.0058
186:	C10H22 ISOMER	NO DATA	0.0052
188:	1-METHYL-2-ETHYLBENZENE	0.0913	0.0686
189:	1,3,5-TRIMETHYLBENZENE	0.1800	0.1288
192:	C10H22 ISOMER	0.0474	0.0476
193:	1,2,4-TRIMETHYLBENZENE	0.4123	0.3491
195:	C10H22 ISOMER	0.0221	0.0260
201:	N-DECANE	0.0192	0.0243
203:	METHYLSTYRENE OR INDAN	0.0283	0.0323
204:	1,2,3-TRIMETHYLBENZENE	0.0761	0.0808
205:	C11H24 ISOMER	NO DATA	0.0026
206:	C11H24 ISOMER	NO DATA	0.0040
207:	1-METHYL-3-ISOPROPYLBENZENE	0.0099	0.0104
208:	1-METHYL-4-ISOPROPYLBENZENE	NO DATA	0.0004
209:	C11H24 ISOMER	NO DATA	0.0014
211:	*** UNKNOWN ***	NO DATA	0.0039
212:	C4 ALKYL BENZENE	0.0150	0.0209
214:	C4 ALKYL BENZENE	0.0185	0.0480
215:	C4 ALKYL BENZENE	-1.2140	-1.2140
216:	C4 ALKYL BENZENE	0.0101	0.0357
219:	C11H24 ISOMER	-1.2200	-1.2200
220:	C4 ALKYL BENZENE	0.0156	0.0590
221:	C11H24 ISOMER	-1.2200	-1.2200
223:	C11H24 ISOMER	NO DATA	0.0067
224:	C4 ALKYL BENZENE	NO DATA	0.0342
226:	C11H24 ISOMER	NO DATA	0.0333
228:	C4 ALKYL BENZENE	NO DATA	0.0644
231:	N-UNDECANE	NO DATA	0.0041
237:	C11H24 ISOMER	NO DATA	0.0058
240:	C5 ALKYL BENZENE	NO DATA	0.0007
241:	1,2,3,4-TETRAMETHYLBENZENE	NO DATA	0.0166
249:	C5 ALKYLBENZENE	NO DATA	0.0043
251:	C5 ALKYLBENZENE	NO DATA	0.0074
TOTAL FID WT. % HC ON CARBON		11.1898	6.0704
UNKNOWN FID WT. % ON CARBON		0.0268	0.1162

RESULTS FROM FORD CANISTER STUDY: WT.% HC ON CARBON AS DETERMINED BY GC/FID.

VARIABLE 17: REPORT52 VAC DIST OF 0139 7-30-84
VARIABLE 47: REPORT35 CS2 EXT OF 0139 7-30-84
VARIABLE 31: REPORT36 CS2 RE-EXT OF 0139 7-30-84

COMPOUNDS	REPORT52	REPORT35	REPORT36
6: ISO-BUTANE	0.0080	0.0002	0.0003
7: 1-BUTENE	NO DATA	-1.0090	-1.0080
8: ISO-BUTYLENE	NO DATA	-1.0090	0.0020
9: N-BUTANE	NO DATA	0.0410	0.0059
11: TRANS-2-BUTENE	NO DATA	0.0034	NO DATA
12: CIS-2-BUTENE	NO DATA	0.0027	NO DATA
14: 3-METHYL-1-BUTENE	0.0016	0.0032	0.0022
15: ISO-PENTANE	0.2411	0.0000	NO DATA
16: 1-PENTENE	NO DATA	0.0060	NO DATA
18: N-PENTANE	0.1305	0.0293	NO DATA
19: TRANS-2-PENTENE	NO DATA	0.0004	NO DATA
21: ISOPRENE	NO DATA	0.0012	NO DATA
22: 2-METHYL-2-BUTENE	0.0311	0.0095	NO DATA
23: CYCLOPENTANE	-1.0220	-1.0220	NO DATA
26: 3,3-DIMETHYL-1-BUTENE	NO DATA	0.0003	NO DATA
28: 2,2-DIMETHYLBUTANE	0.0212	0.0057	NO DATA
30: 4-METHYL-1-PENTENE	NO DATA	0.0007	NO DATA
31: 2,3-DIMETHYLBUTANE	0.0796	0.0261	NO DATA
32: 4-METHYL-CIS-2-PENTENE OR 2,3-DI	NO DATA	0.0008	NO DATA
33: 2-METHYLPENTANE	0.2398	0.0785	NO DATA
35: 3-METHYLPENTANE	0.1424	0.0503	0.0011
37: METHYLCYCLOPENTANE	0.1226	0.0497	0.0192
40: N-HEXANE	0.2761	0.1523	0.0503
42: CIS-3-HEXENE	0.0652	0.0205	NO DATA
43: CIS-2-HEXENE	NO DATA	0.0013	NO DATA
44: 1-METHYLCYCLOPENTENE	0.0469	0.0230	NO DATA
45: CYCLOHEXANE	NO DATA	0.0029	NO DATA
46: 3-METHYL-TRANS-2-PENTENE	0.0084	0.0030	NO DATA
54: BENZENE	1.4154	0.2984	0.0363
57: 2,4-DIMETHYLPENTANE	0.2582	0.0950	NO DATA
59: 2,4 DIMETHYL-1-PENTENE	NO DATA	0.0021	NO DATA
61: 3,4-DIMETHYL-1-PENTENE	0.0059	0.0032	NO DATA
64: 1-CIS-3-DIMETHYLCYCLOPENTANE	0.0183	0.0089	NO DATA
65: 1-TRANS-3-DIMETHYLCYCLOPENTANE	0.0434	0.0191	NO DATA

67: 2,3-DIMETHYLPENTANE	0.4464	0.2003	NO DATA
70: 2-METHYLHEXANE	0.1643	0.0706	NO DATA
71: 3-METHYLHEXANE	0.1806	0.0839	NO DATA
72: 3-ETHYLPENTANE	NO DATA	0.0020	NO DATA
73: 1-CIS-2-DIMETHYLCYCLOPENTANE	0.0118	0.0054	NO DATA
74: METHYLCYCLOHEXANE	0.0565	0.0292	NO DATA
75: 3-METHYL-CIS-2-HEXENE	NO DATA	0.0010	NO DATA
76: 1-HEPTENE	NO DATA	0.0011	NO DATA
77: 3-ETHYL-2-PENTENE	0.0299	0.0134	NO DATA
78: C7H12 ISOMER	-1.0770	-1.0770	NO DATA
79: ETHYLCYCLOPENTANE	0.0181	0.0076	NO DATA
82: N-HEPTANE	0.2541	0.1095	NO DATA
83: TRANS-2-HEPTENE	0.0072	0.0039	NO DATA
84: TRANS-3-HEPTENE	NO DATA	0.0025	NO DATA
85: C7H12 ISOMER	0.0106	0.0011	NO DATA
87: 2,2,4-TRIMETHYLPENTANE	3.3684	1.6879	0.0017
88: 1,1,3-TRIMETHYLCYCLOPENTANE	0.0087	0.0073	NO DATA
89: C8H16 ISOMER	NO DATA	0.0025	NO DATA
91: 2,2,4-TRIMETHYL-1-PENTENE	NO DATA	0.0020	NO DATA
94: C7H12 ISOMER	0.0286	0.0141	NO DATA
95: TRIMETHYLCYCLOPENTANE	0.0158	0.0085	NO DATA
96: 2,2-DIMETHYLHEXANE	0.0962	0.0530	NO DATA
98: 2,4-DIMETHYLHEXANE	0.5282	0.2663	0.0007
99: 2,5-DIMETHYLHEXANE + C8H16 ISOME	0.4184	0.2053	0.0006
100: TOLUENE	7.2547	4.4417	0.0107
101: 2,3,4-TRIMETHYLPENTANE	1.0283	NO DATA	0.0036
103: DIMETHYLCYCLOHEXANE	NO DATA	0.0121	NO DATA
104: TRIMETHYLPENTANE	0.0452	0.0312	0.0016
106: 2,3-DIMETHYLHEXANE	0.4961	0.2671	NO DATA
108: METHYL ETHYLCYCLOPENTANE	0.1347	0.1016	NO DATA
110: *** UNKNOWN ***	0.0102	0.0076	NO DATA
111: 4-METHYLHEPTANE	0.2535	0.1136	0.0011
112: 2-METHYLHEPTANE	0.3710	0.1700	0.0016
113: 3-METHYLHEPTANE	0.4305	0.1968	0.0034
115: 3-ETHYL-1,4-HEXADIENE + UNKNOWN	0.0045	0.0019	NO DATA
117: METHYL ETHYLCYCLOPENTANE	0.0162	0.0079	NO DATA
118: DIMETHYLCYCLOHEXANE	NO DATA	0.0013	NO DATA
119: DIMETHYLHEXENE	-1.1210	-1.1210	-1.1210
120: OCTENE	-1.1210	-1.1210	-1.1210
121: C8H16 ISOMER	0.0075	0.0052	0.0012

122: METHYL ETHYLPENTANE	0.0243	0.0154	NO DATA
123: C8H16 ISOMER	NO DATA	0.0162	NO DATA
126: N-OCTANE	0.3444	0.1741	0.0053
127: C8H16 + C8H14 ISOMERS	0.0119	0.0092	0.0005
128: C8H16 + C8H14 ISOMERS	NO DATA	0.0032	0.0004
129: 2,2,5-TRIMETHYLHEXANE	0.3625	0.1952	0.0051
132: 2,2,4-TRIMETHYLHEXANE	NO DATA	0.0041	NO DATA
133: 2,2,4- OR 3,3,4-TRIMETHYLHEXANE	0.0119	0.0093	NO DATA
134: *** UNKNOWN ***	NO DATA	-1.1350	NO DATA
135: DIMETHYLHEPTENE	NO DATA	0.0040	NO DATA
136: 2,3,5-TRIMETHYLHEXANE	0.0727	0.0435	0.0014
137: C9H16 ISOMER	NO DATA	0.0073	NO DATA
138: C9H18 ISOMER	NO DATA	0.0078	NO DATA
139: 4-ETHYL-3-HEPTENE	-1.1400	-1.1400	-1.1400
140: 2,3,3-TRIMETHYLHEXANE	0.0797	0.0525	0.0009
141: ETHYLBENZENE	0.4485	0.2996	0.0092
143: 2-METHYL-4-ETHYLHEXANE	0.1450	0.1101	0.0056
144: 2,5 OR 3,5-DIMETHYLHEPTANE	NO DATA	0.0007	NO DATA
145: P-XYLENE	0.4511	0.2985	0.0104
146: M-XYLENE	1.2131	0.7778	0.0235
149: C9H16 ISOMER	0.0185	0.0160	0.0009
150: 2-METHYLOCTANE	-1.1490	-1.1490	-1.1490
151: METHYLETHYLCYCLOHEXANE	NO DATA	0.0017	NO DATA
152: 2-METHYLOCTANE	0.1169	0.1089	0.0059
153: O-XYLENE	0.5886	0.4163	0.0201
154: 4-METHYLOCTANE	0.2335	0.1603	0.0129
155: C9H18 ISOMER	NO DATA	0.0030	NO DATA
157: C9H16 +C9H18 ISOMERS	NO DATA	0.0010	NO DATA
162: C9H18 ISOMER	NO DATA	-1.1630	NO DATA
163: N- OR ISOPROPYL- CYCLOHEXANE	NO DATA	0.0059	NO DATA
164: C9H18 ISOMER	NO DATA	0.0106	NO DATA
165: N-NONANE	0.0833	0.0702	0.0084
166: *** UNKNOWN ***	NO DATA	0.0074	NO DATA
167: *** UNKNOWN ***	NO DATA	0.0017	NO DATA
169: 2,2,4-TRIMETHYLHEPTANE	NO DATA	0.0390	0.0055
170: 3,3,5-TRIMETHYLHEPTANE	NO DATA	-1.1690	-1.1690
171: ISOPROPYLBENZENE	0.0594	0.0492	0.0062
173: C10H22 ISOMER	NO DATA	-1.1740	NO DATA
174: C10H22 ISOMER	NO DATA	0.0034	NO DATA
175: C10H22 ISOMER	NO DATA	0.0152	0.0077

175: C10H22 ISOMER	NO DATA	0.0152	0.0077
176: C10H22 ISOMER	NO DATA	0.0092	NO DATA
177: C10H22 ISOMER	0.0104	NO DATA	0.0053
178: N-PROPYLBENZENE	0.0717	0.0764	0.0115
180: 2,3-DIMETHYLOCTANE	NO DATA	0.0122	0.0032
181: C10H22 ISOMER	NO DATA	0.0061	0.0025
182: 1-METHYL-3 OR 4-ETHYLBENZENE	0.3451	0.3357	0.0317
185: C10H22 ISOMER	NO DATA	-1.1860	-1.1860
186: C10H22 ISOMER	NO DATA	0.0065	0.0010
188: 1-METHYL-2-ETHYLBENZENE	0.0758	0.0724	0.0105
189: 1,3,5-TRIMETHYLBENZENE	0.1402	0.1327	0.0132
192: C10H22 ISOMER	0.0294	0.0398	0.0089
193: 1,2,4-TRIMETHYLBENZENE	0.2283	0.2358	0.0278
195: C10H22 ISOMER	0.0217	0.0351	0.0070
201: N-DECANE	0.0088	0.0122	NO DATA
203: METHYLSTYRENE OR INDAN	0.0181	0.0213	0.0063
204: 1,2,3-TRIMETHYLBENZENE	0.0394	0.0534	0.0084
205: C11H24 ISOMER	NO DATA	0.0026	NO DATA
206: C11H24 ISOMER	NO DATA	0.0046	NO DATA
207: 1-METHYL-3-ISOPROPYLBENZENE	NO DATA	0.0077	0.0015
211: *** UNKNOWN ***	NO DATA	0.0024	NO DATA
212: C4 ALKYL BENZENE	NO DATA	0.0124	0.0019
214: C4 ALKYL BENZENE	NO DATA	0.0162	0.0019
215: C4 ALKYL BENZENE	NO DATA	-1.2140	-1.2140
216: C4 ALKYL BENZENE	NO DATA	0.0105	0.0010
217: C11H24 ISOMER	NO DATA	0.0010	NO DATA
218: C11H24 ISOMER	NO DATA	-1.2170	NO DATA
219: C11H24 ISOMER	NO DATA	-1.2200	NO DATA
220: C4 ALKYL BENZENE	NO DATA	0.0211	NO DATA
221: C11H24 ISOMER	NO DATA	-1.2200	NO DATA
223: C11H24 ISOMER	NO DATA	0.0097	0.0032
224: C4 ALKYL BENZENE	NO DATA	0.0073	NO DATA
226: C11H24 ISOMER	NO DATA	0.0016	NO DATA
228: C4 ALKYL BENZENE	NO DATA	0.0049	NO DATA
237: C11H24 ISOMER	NO DATA	0.0064	NO DATA
249: C5 ALKYLBENZENE	NO DATA	0.0066	0.0024
TOTAL FID WT. % HC ON CARBON	24.1331	13.2757	0.4329
UNKNOWN FID WT. % ON CARBON	0.0266	0.0929	0.0102

Table 2

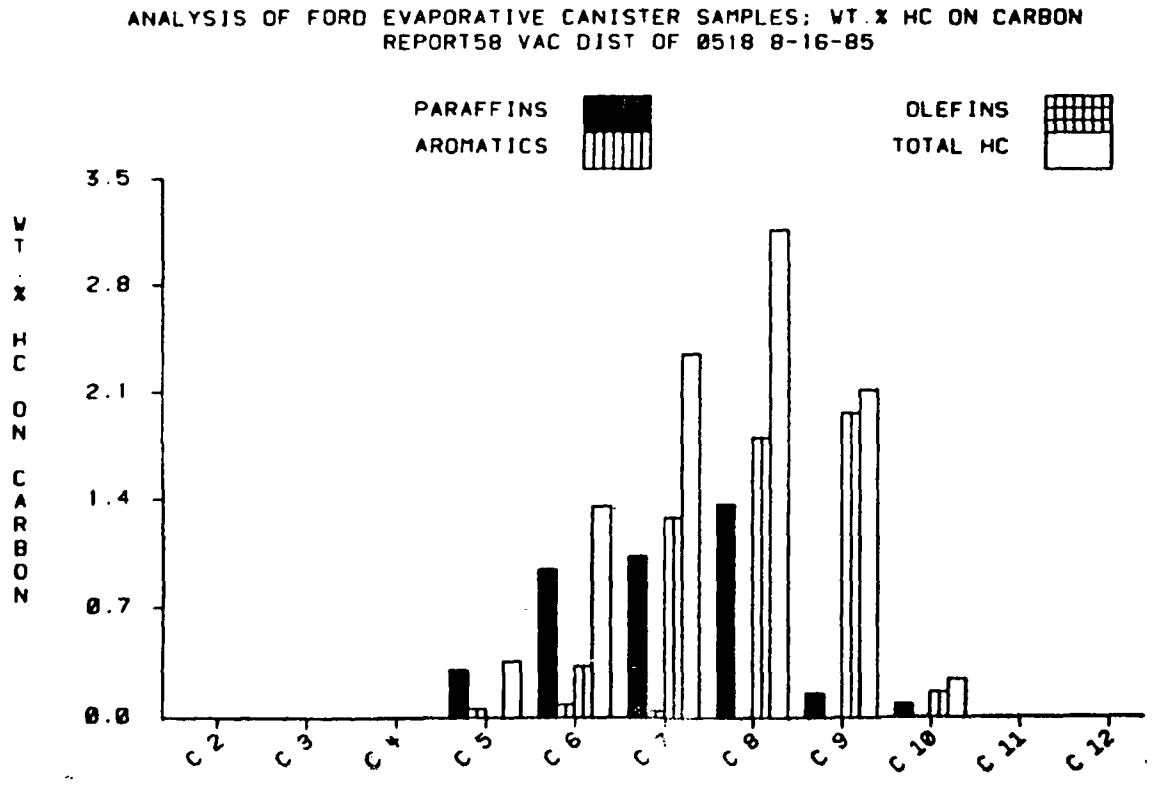
COMPARISON OF VACUUM DISTILLATION VS. CS2 EXTRACTION
(2nd SET OF 14 CANISTERS)
% EXTRACTED

Sample #	Date Removed	% Aqueous Vacuum Distillation 1	% Moisture Xylene Procedure 2	% Organic Vacuum Distillation 3	% Reextracted CS2 Soxhlet Extraction 2,4 4	Column 3 + 4 5	% Extracted CS2 Soxhlet extraction 6	Column 5 - 6 7
A152/0518	8/16/85	19.3	19.0	16.3	5.8	22.1	20.9	1.2
A152/0518	8/16/85	19.1	19.0	13.5	9.1	22.6	20.4	2.2
A152/0599	6/3/85	<0.8	0.1	12.6	12.2	24.8	24.2[2]	0.6
A152/0255	8/16/85	1.1	1.7	16.8	5.3	22.1	23.0[2]	-0.9
A152/0611	7/24/85	3.8	4.1	18.7	5.0	23.7	20.5	3.2
A152/0611	6/10/85	19.2	17.6	25.3	7.9	33.2	31.8	1.4
A152/0611	6/10/85	18.6	17.6	25.5	7.9	33.4	31.4	2.0
A152/0237	10/22/84	0.6	<0.1	17.6	0.6	18.2	20.5	-2.3
A152/0237	11/5/84	1.2	<0.1	20.8	1.8	22.6	24.6	-2.0
A152/0237	8/22/84	1.8	0.2	22.8	6.4	29.2	30.9	-1.7
A152/0198	8/1/84	0.6	<0.1	22.2	0.5	22.7	21.0	1.6
A152/0198	7/23/84	1.8	<0.1	22.2	4.9	27.1	29.0	-1.9
A152/0599	6/2/85	0.9		17.2	5.5	22.7	23.2	-0.5
A152/0599	6/3/85	1.1		16.5				
A152/0139	8/2/84	0.2	0.3	10[3]	0.3	-	9.5	

TABLE 3

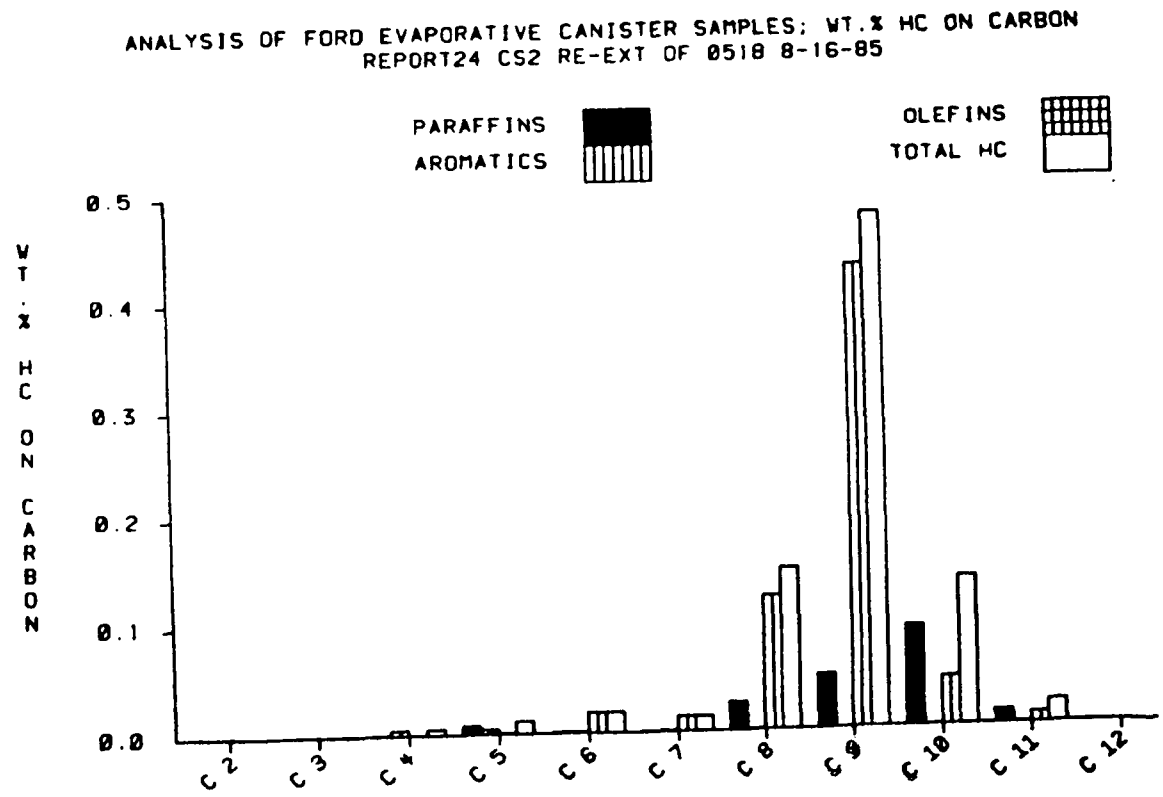
DATA FILE : REPORT58 VAC DIST OF 0518 8-16-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1337	0.1992	0.1032	0.0519	0.0445	0.0353	0.0000	0.0000	0.5678
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.1705	0.6137	0.8147	1.2814	0.1075	0.0480	0.0000	0.0000	3.0358
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1331	0.1103	0.0245	0.0000	0.0000	0.0000	0.0000	0.2679
OLEFINS	0.0000	0.0000	0.0000	0.0538	0.0799	0.0385	0.0000	0.0000	0.0000	0.0000	0.0000	0.1722
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.3276	1.2760	1.7947	1.9596	0.1579	0.0000	0.0000	5.5157
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0278
TOTALS	0.0000	0.0000	0.0000	0.3579	1.3535	2.3427	3.1526	2.1115	0.2412	0.0000	0.0000	9.59



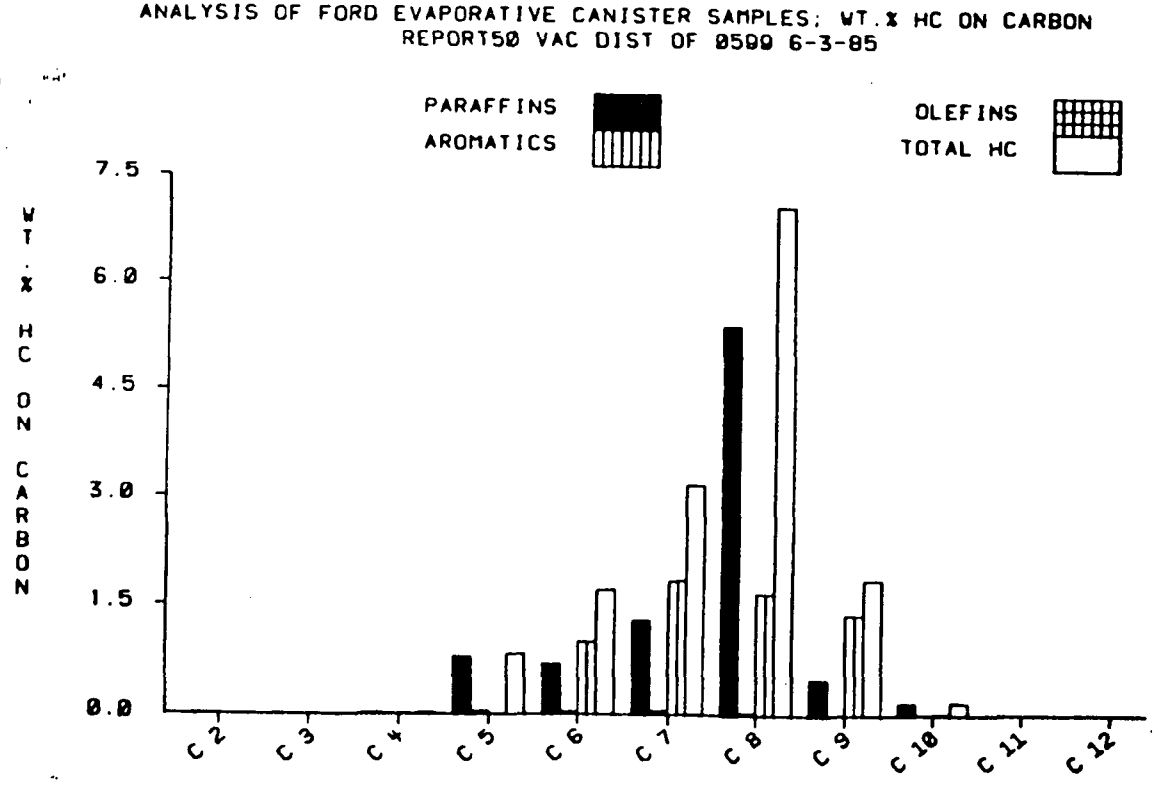
DATA FILE : REPORT24 CS2 RE-EXT OF 0518 8-16-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0069	0.0000	0.0000	0.0044	0.0192	0.0019	0.0000	0.0000	0.0324
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0002	0.0000	0.0000	0.0208	0.0293	0.0894	0.0113	0.0000	0.1512
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
OLEFINS	0.0000	0.0000	0.0046	0.0036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0082
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0180	0.0129	0.1213	0.4275	0.0441	0.0088	0.0000	0.6325
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.0307
TOTALS	0.0000	0.0000	0.0048	0.0108	0.0180	0.0129	0.1465	0.4759	0.1354	0.0201	0.0000	0.85



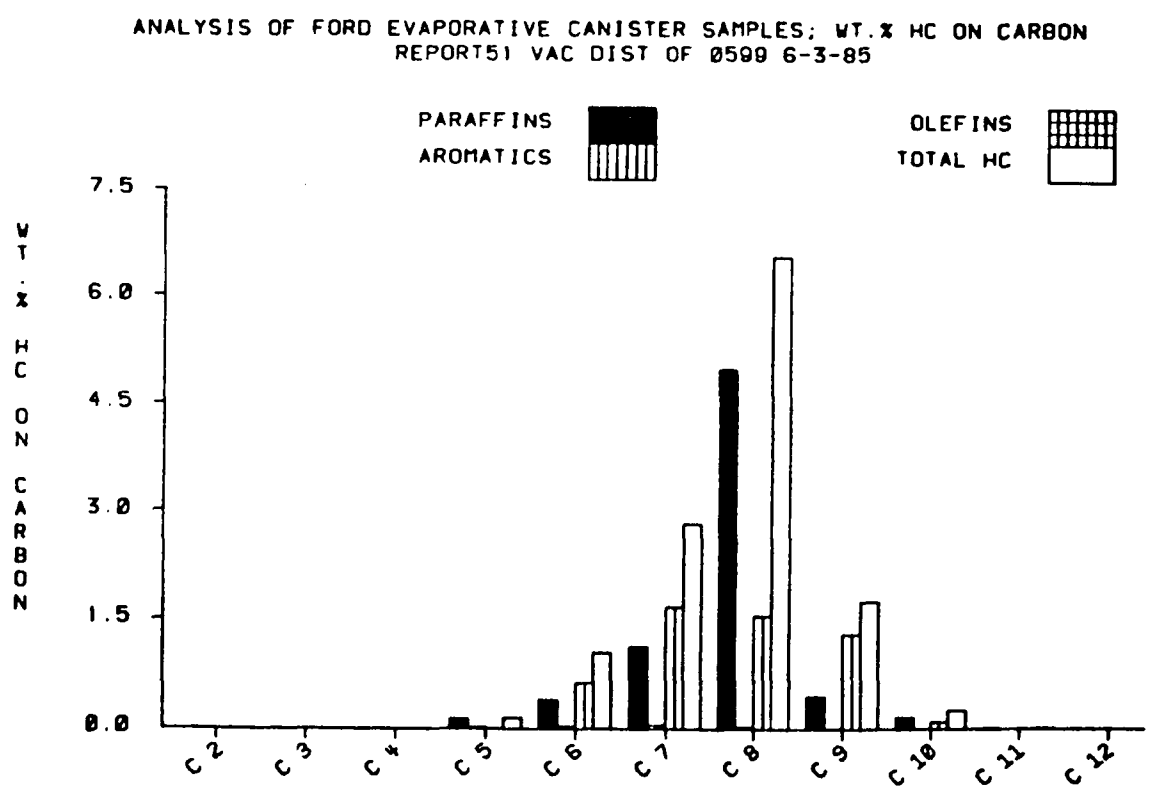
DATA FILE : REPORT50 VAC DIST OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.3811	0.2878	0.2966	0.3542	0.0770	0.0145	0.0000	0.0000	1.4112
BRANCHED PARAFFINS	0.0000	0.0000	0.0136	0.4029	0.3403	0.9131	4.8979	0.3924	0.1454	0.0000	0.0000	7.1062
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0627	0.0742	0.1236	0.0166	0.0000	0.0000	0.0000	0.2770
OLEFINS	0.0000	0.0000	0.0000	0.0420	0.0231	0.0424	0.0220	0.0000	0.0000	0.0000	0.0000	0.1345
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.9954	1.8311	1.6507	1.3599	0.0077	0.0000	0.0000	5.8449
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0386
TOTALS	0.0000	0.0000	0.0136	0.8260	1.7143	3.1574	7.0433	1.3460	0.1677	0.0000	0.0000	14.81



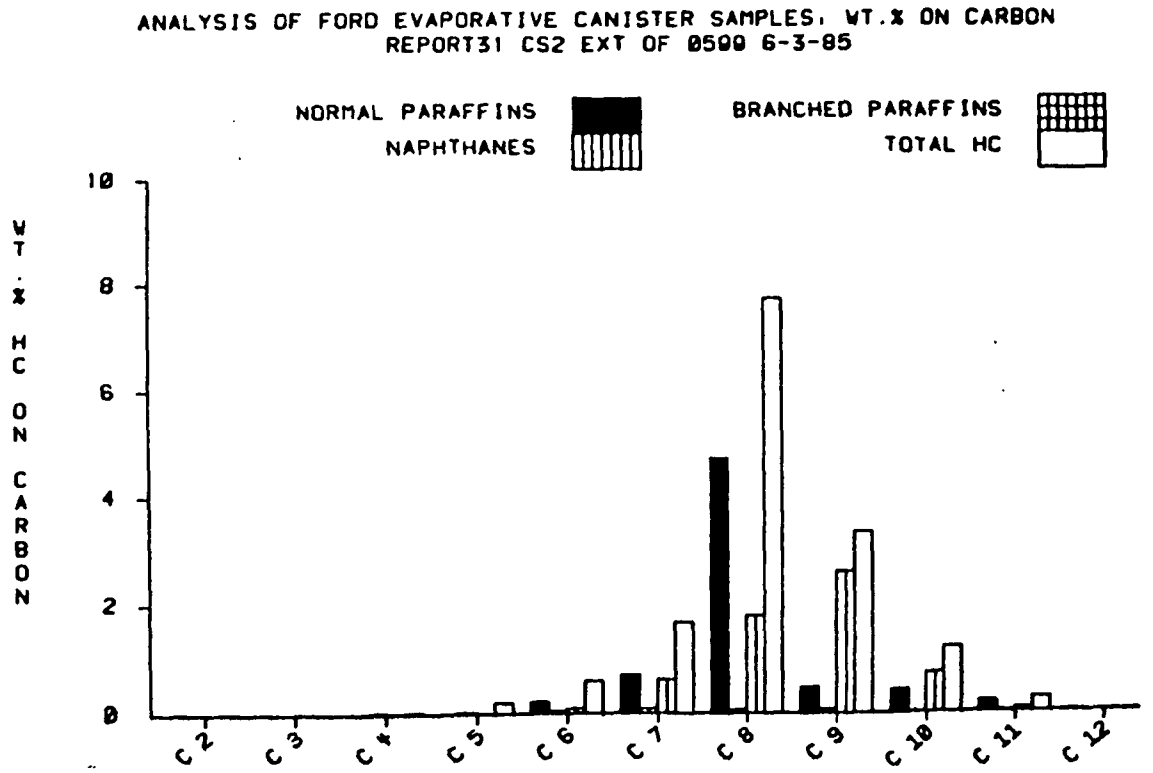
DATA FILE : REPORT51 VAC DIST OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0578	0.1577	0.2661	0.3433	0.0722	0.0139	0.0000	0.0000	0.9110
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0708	0.1930	0.7734	4.4650	0.3586	0.1447	0.0073	0.0000	6.0129
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0381	0.0673	0.1505	0.0148	0.0000	0.0000	0.0000	0.2707
OLEFINS	0.0000	0.0000	0.0000	0.0134	0.0232	0.0455	0.0230	0.0051	0.0000	0.0000	0.0000	0.1101
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.6221	1.6610	1.5424	1.2895	0.0927	0.0000	0.0000	5.2076
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0583
TOTALS	0.0000	0.0000	0.0000	0.1419	1.0341	2.8132	6.5241	1.7402	0.2514	0.0073	0.0000	12.57



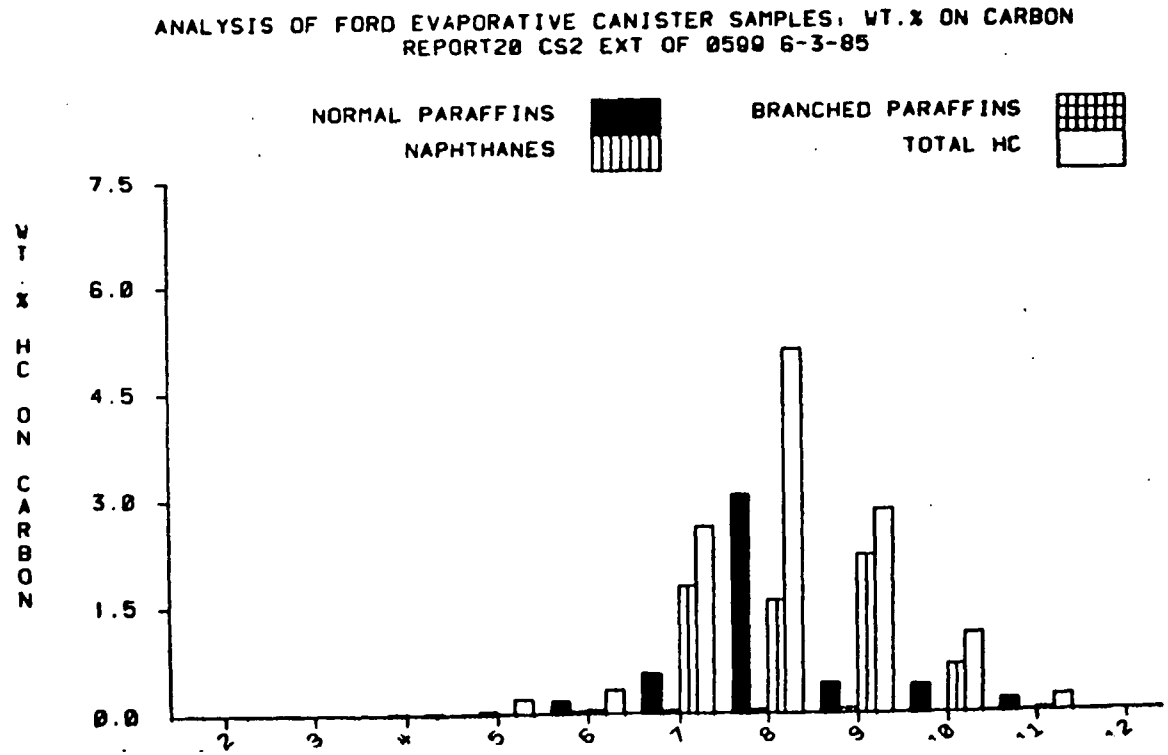
DATA FILE : REPORT31 CS2 EXT OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1668	0.2358	0.2342	0.3241	0.1121	0.0461	0.0153	0.0000	1.1344
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0004	0.2068	0.6971	4.7009	0.4776	0.4242	0.1831	0.0000	6.6952
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0433	0.0661	0.8184	0.0698	0.0000	0.0000	0.0000	0.9975
OLEFINS	0.0000	0.0000	0.0167	0.0177	0.0265	0.0663	0.0523	0.0665	0.0000	0.0000	0.0000	0.2460
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0746	0.6074	1.7953	2.5985	0.7271	0.0492	0.0000	5.8519
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0065	0.0000	0.0000	0.0000	0.0000	0.0065
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2477
TOTALS	0.0000	0.0000	0.0169	0.1849	0.5869	1.6710	7.6973	3.3244	1.1974	0.2526	0.0000	15.18



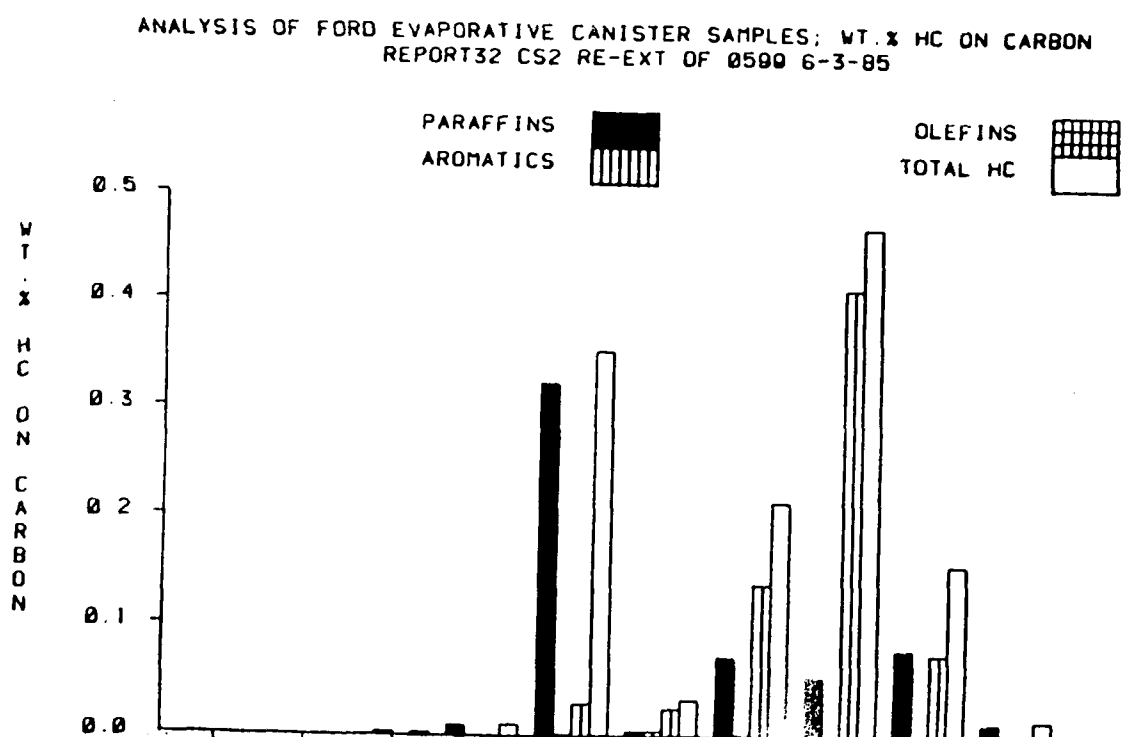
DATA FILE : REPORT20 CS2 EXT OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1737	0.0637	0.1850	0.2652	0.0955	0.0384	0.0120	0.0000	0.8335
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0003	0.1694	0.5571	3.0415	0.4179	0.3893	0.1757	0.0000	4.7514
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0237	0.0554	0.1690	0.0637	0.0000	0.0000	0.0000	0.3118
OLEFINS	0.0000	0.0000	0.0217	0.0343	0.0236	0.0366	0.0454	0.0609	0.0000	0.0000	0.0000	0.2224
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0447	1.7696	1.5586	2.1898	0.6607	0.0315	0.0000	6.2550
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0022	0.0000	0.0000	0.0000	0.0000	0.0022
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.3155
TOTALS	0.0000	0.0000	0.0219	0.2082	0.3251	2.6037	5.0819	2.8279	1.0883	0.2192	0.0000	12.69



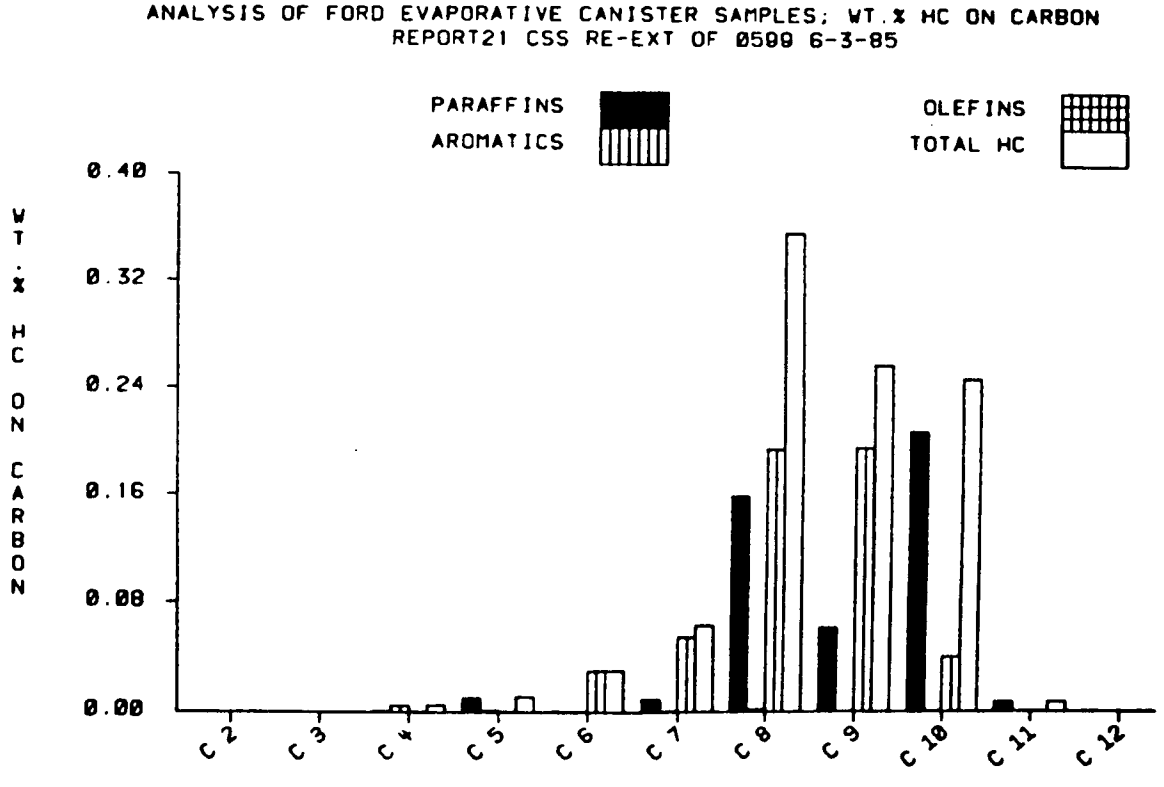
DATA FILE : REPORT32 CS2 RE-EXT OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0090	0.2893	0.0014	0.0111	0.0135	0.0034	0.0000	0.0000	0.3278
BRANCHED PARAFFINS	0.0000	0.0000	0.0001	0.0006	0.0080	0.0022	0.0585	0.0389	0.0778	0.0139	0.0000	0.2001
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0250	0.0004	0.0035	0.0044	0.0000	0.0000	0.0000	0.0333
OLEFINS	0.0000	0.0000	0.0029	0.0004	0.0006	0.0042	0.0019	0.0005	0.0000	0.0000	0.0000	0.0106
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0289	0.0247	0.1388	0.4109	0.0766	0.0021	0.0000	0.6820
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0318
TOTALS	0.0000	0.0000	0.0031	0.0101	0.3518	0.0330	0.2138	0.4682	0.1578	0.0160	0.0000	1.29



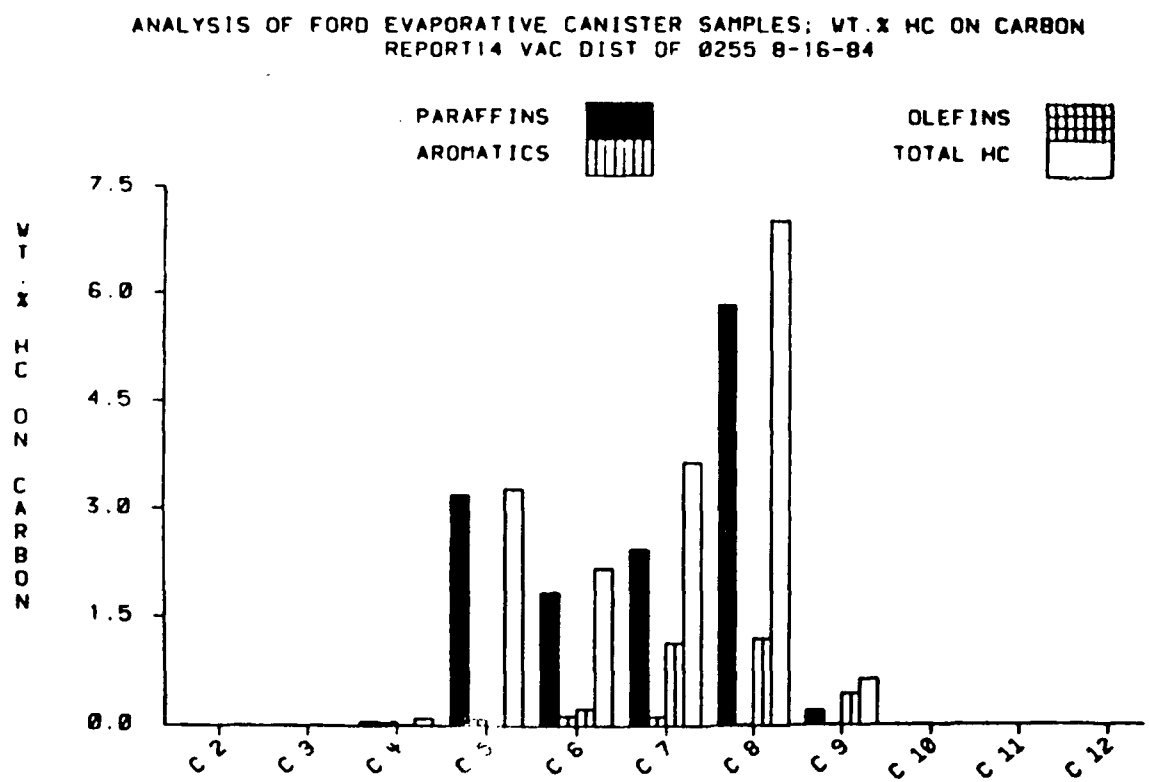
DATA FILE : REPORT21 CSS RE-EXT OF 0599 6-3-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0097	0.0000	0.0039	0.0185	0.0118	0.0017	0.0000	0.0000	0.0456
BRANCHED PARAFFINS	0.0000	0.0000	0.0004	0.0003	0.0000	0.0051	0.1362	0.0491	0.2060	0.0067	0.0000	0.4038
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0042	0.0006	0.0000	0.0000	0.0000	0.0048
OLEFINS	0.0000	0.0000	0.0045	0.0008	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000	0.0066
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0301	0.0545	0.1946	0.1959	0.0398	0.0000	0.0000	0.5149
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.1941
TOTALS	0.0000	0.0000	0.0048	0.0108	0.0301	0.0635	0.3549	0.2574	0.2476	0.0067	0.0000	1.17



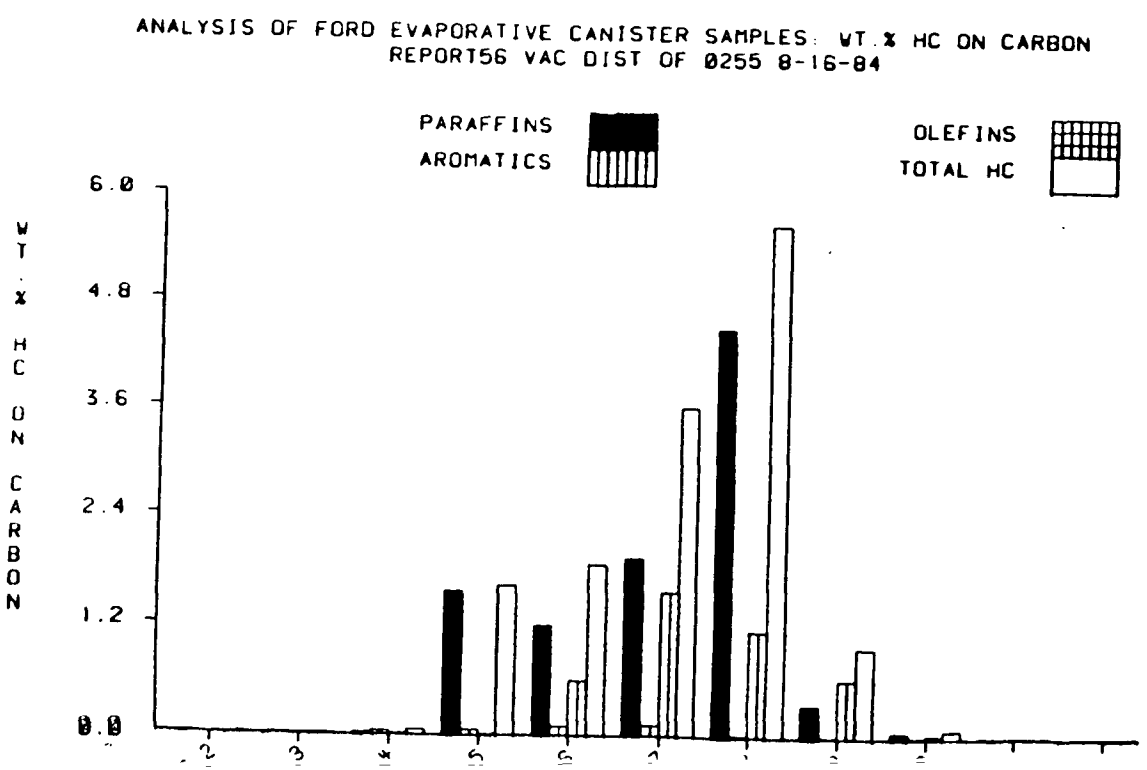
DATA FILE : REPORT14 VAC DIST OF 0255 8-16-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.8829	0.3567	0.4932	0.2285	0.0333	0.0000	0.0000	0.0000	1.9946
BRANCHED PARAFFINS	0.0000	0.0000	0.0528	2.2739	1.2775	1.7192	4.9382	0.1641	0.0000	0.0000	0.0000	10.4257
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1653	0.1751	0.6292	0.0000	0.0000	0.0000	0.0000	0.9696
OLEFINS	0.0000	0.0000	0.0355	0.0357	0.1185	0.1111	0.0122	0.0000	0.0000	0.0000	0.0000	0.3629
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2190	1.1095	1.1800	0.4253	0.0000	0.0000	0.0000	2.9338
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0790
TOTALS	0.0000	0.0000	0.0883	3.2425	2.1369	3.6032	6.9880	0.6227	0.0000	0.0000	0.0000	16.77



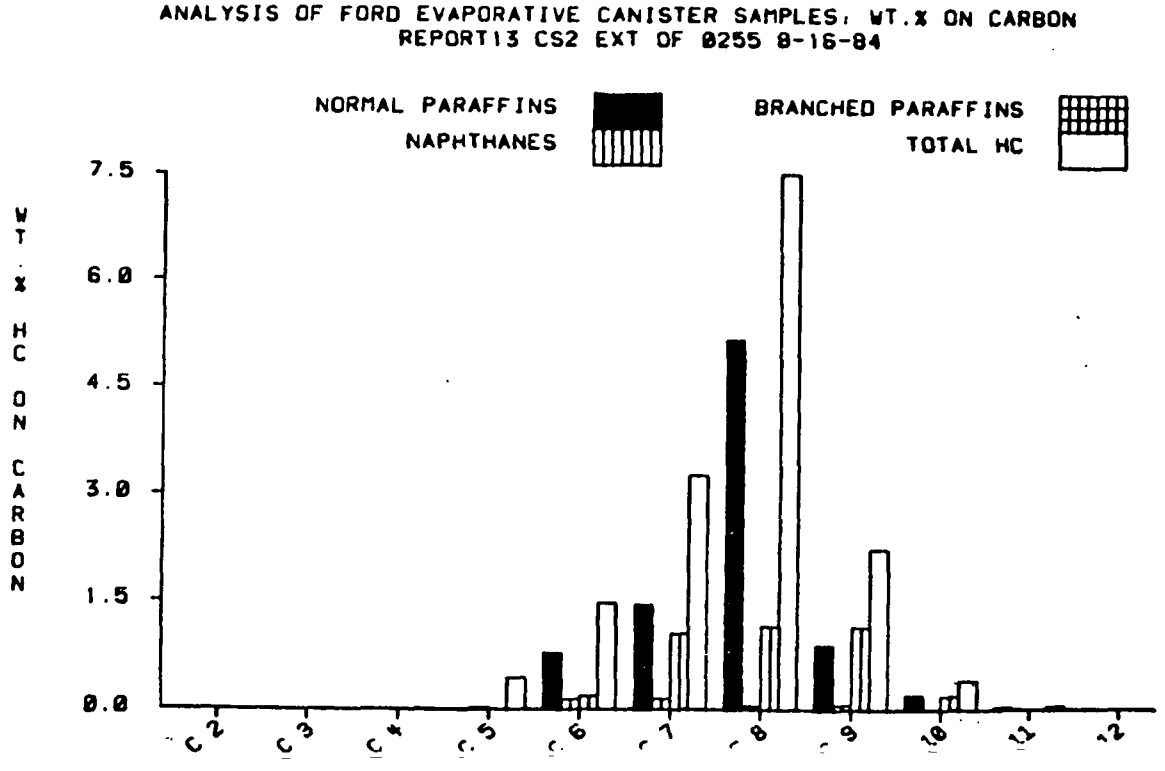
DATA FILE : REPORT56 VAC DIST OF 0255 8-16-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.4530	0.2621	0.4335	0.2269	0.0466	0.0081	0.0000	0.0000	1.4302
BRANCHED PARAFFINS	0.0000	0.0000	0.0118	1.1185	0.8166	1.3579	4.1354	0.3100	0.0453	0.0000	0.0000	7.7954
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1155	0.1485	0.1251	0.0000	0.0000	0.0000	0.0000	0.3890
OLEFINS	0.0000	0.0000	0.0318	0.0513	0.0860	0.1003	0.0116	0.0000	0.0000	0.0000	0.0000	0.2815
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.5865	1.5690	1.1531	0.6239	0.0262	0.0000	0.0000	3.9587
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0712
TOTALS	0.0000	0.0000	0.0436	1.6232	1.8666	3.6092	5.6522	0.9804	0.0796	0.0000	0.0000	13.93



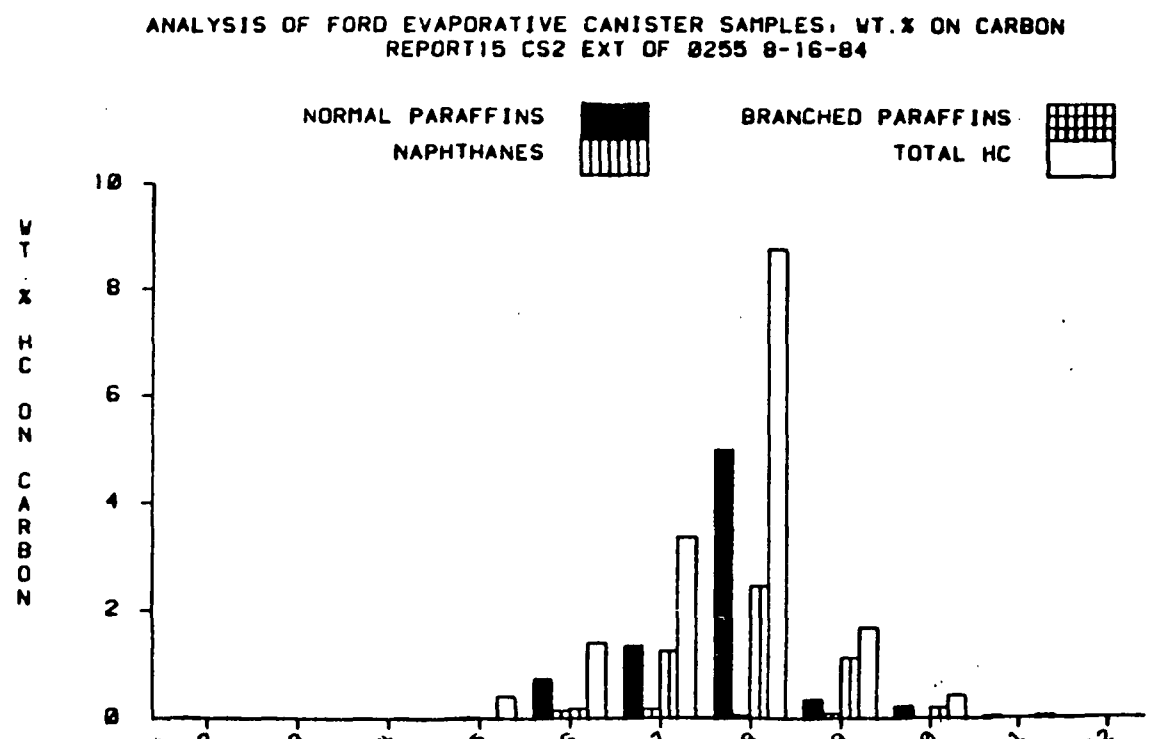
DATA FILE : REPORT13 CS2 EXT OF 0255 8-16-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.4145	0.2714	0.4627	0.2757	0.0844	0.0168	0.0000	0.0000	1.5255
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0000	0.7803	1.4473	5.1542	0.9017	0.2042	0.0300	0.0000	8.5178
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1092	0.1652	0.8792	0.0259	0.0000	0.0000	0.0000	1.1795
OLEFINS	0.0000	0.0000	0.0027	0.0187	0.1340	0.1380	0.0413	0.0658	0.0000	0.0000	0.0000	0.4006
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1736	1.0418	1.1470	1.1415	0.1849	0.0049	0.0000	3.6938
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.3103
TOTALS	0.0000	0.0000	0.0027	0.4332	1.4686	3.2551	7.4974	2.2194	0.4059	0.0349	0.0000	15.63



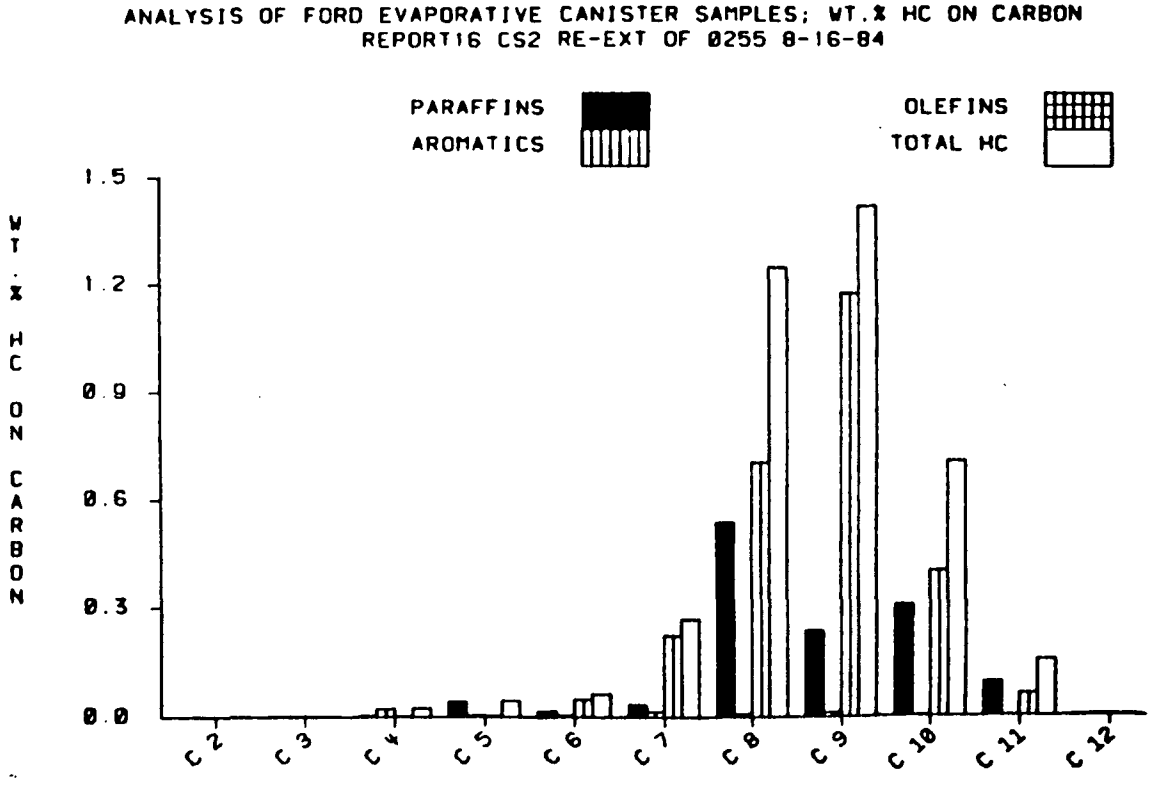
DATA FILE : REPORT15 CS2 EXT OF 0255 8-16-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.3867	0.2639	0.4504	0.3517	0.0892	0.0169	0.0000	0.0000	1.5588
BRANCHED PARAFFINS	0.0000	0.0000	0.0007	0.0001	0.7371	1.3465	4.9999	0.3595	0.2209	0.0349	0.0000	7.6996
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1037	0.1697	0.8510	0.0317	0.0000	0.0000	0.0000	1.1561
OLEFINS	0.0000	0.0000	0.0023	0.0189	0.1318	0.1568	0.0444	0.0804	0.0000	0.0000	0.0000	0.4346
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1712	1.2534	2.4639	1.1421	0.1960	0.0011	0.0000	5.2278
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0327	0.0000	0.0000	0.0000	0.0000	0.0327
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2887
TOTALS	0.0000	0.0000	0.0029	0.4057	1.4076	3.3769	8.7437	1.7030	0.4339	0.0361	0.0000	16.40



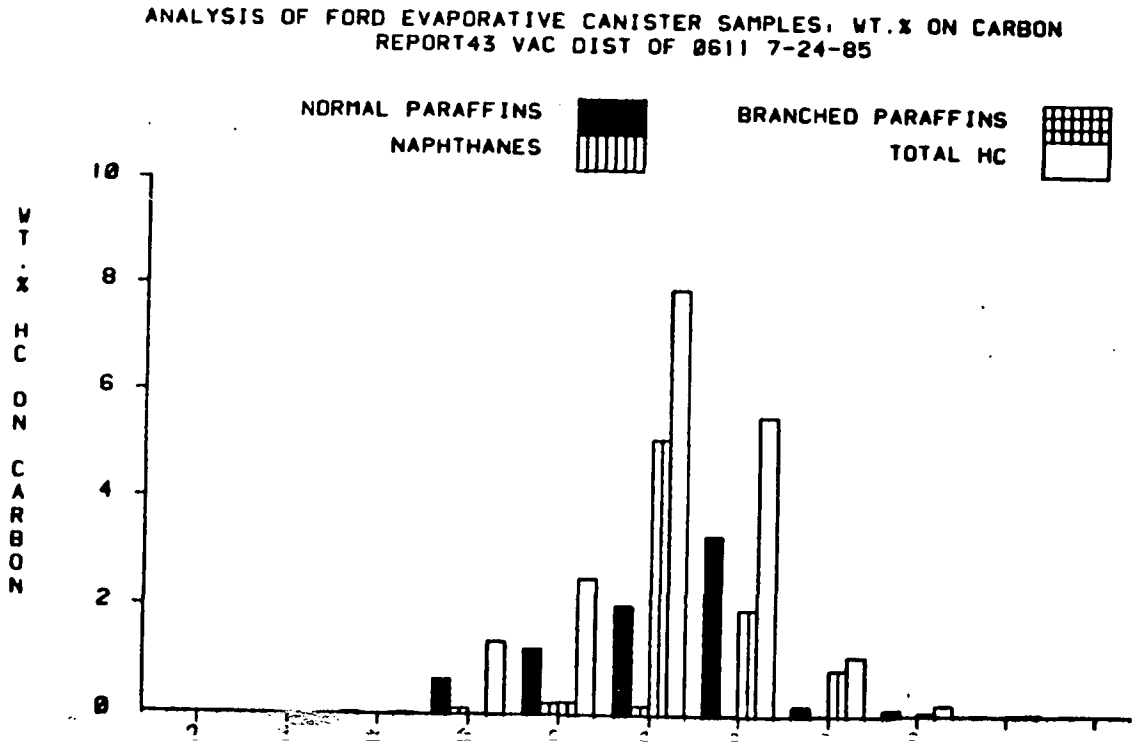
DATA FILE : REPORT16 CS2 RE-EXT OF 0255 8-16-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0398	0.0070	0.0115	0.0688	0.0476	0.0131	0.0106	0.0000	0.1984
BRANCHED PARAFFINS	0.0000	0.0000	0.0017	0.0000	0.0042	0.0180	0.4394	0.1631	0.2914	0.0829	0.0000	1.0007
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0012	0.0019	0.0232	0.0216	0.0000	0.0000	0.0000	0.0480
OLEFINS	0.0000	0.0000	0.0209	0.0023	0.0020	0.0125	0.0068	0.0104	0.0000	0.0000	0.0000	0.0548
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0456	0.2200	0.6985	1.1704	0.4014	0.0610	0.0000	2.5970
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0057	0.0000	0.0000	0.0000	0.0000	0.0057
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2300
TOTALS	0.0000	0.0000	0.0225	0.0421	0.0601	0.2639	1.2424	1.4131	0.7059	0.1546	0.0000	4.13



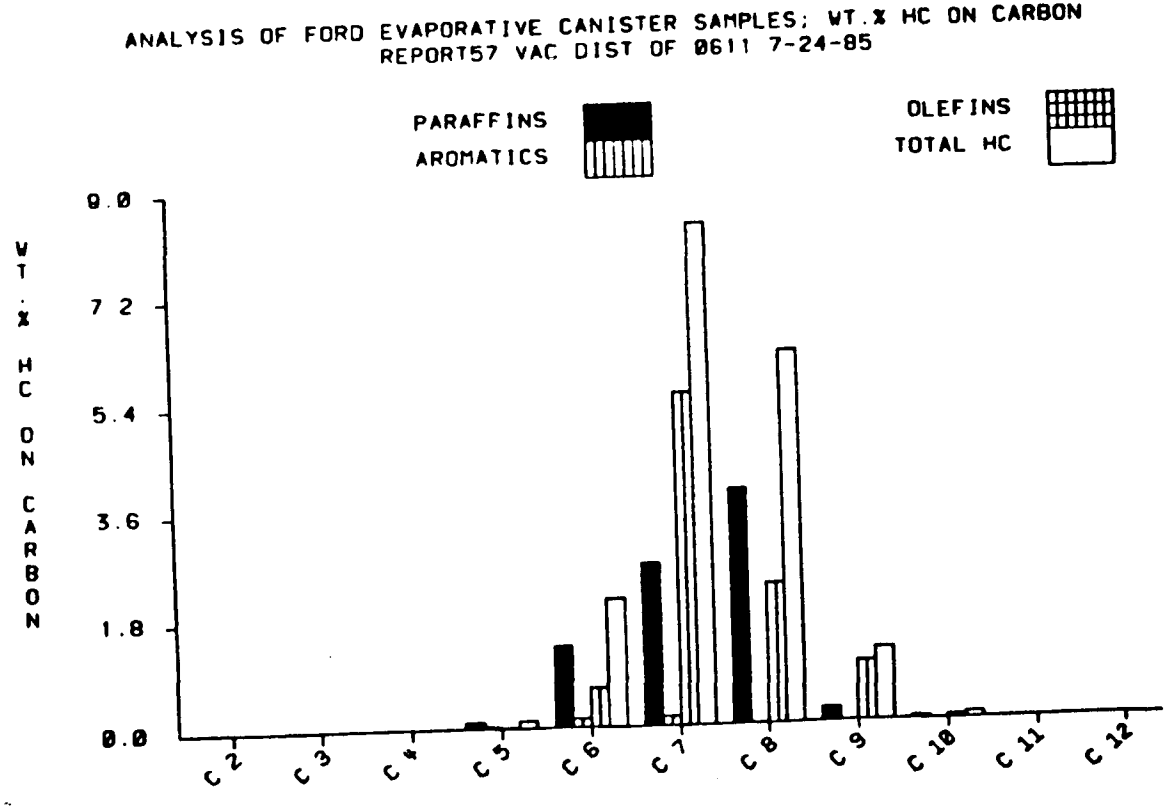
DATA FILE : REPORT43 VAC DIST OF 0611 7-24-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.5933	0.5870	0.3102	0.1283	0.0554	0.0125	0.0000	0.0000	1.6866
BRANCHED PARAFFINS	0.0000	0.0000	0.0148	0.6396	1.1966	2.0067	3.3000	0.1761	0.1194	0.0000	0.0000	7.4531
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.3168	0.3355	0.1440	0.0067	0.0000	0.0000	0.0000	0.8030
OLEFINS	0.0000	0.0000	0.0000	0.0933	0.1957	0.1572	0.0049	0.0098	0.0000	0.0000	0.0000	0.4609
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2161	5.0959	1.9541	0.8526	0.0534	0.0225	0.0000	8.1945
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.1010
TOTALS	0.0000	0.0000	0.0148	1.3262	2.5121	7.9054	5.5312	1.1006	0.1354	0.0225	0.0000	18.70



DATA FILE : REPORT57 VAC DIST OF 0611 7-24-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0578	0.3579	0.3277	0.1493	0.0354	0.0123	0.0000	0.0000	0.9404
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0361	0.7315	2.0091	3.6250	0.1776	0.0266	0.0061	0.0000	6.6120
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.2426	0.3331	0.1071	0.0000	0.0000	0.0000	0.0000	0.6829
OLEFINS	0.0000	0.0000	0.0000	0.0209	0.1348	0.1487	0.0000	0.0000	0.0000	0.0000	0.0000	0.3044
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.6402	5.5202	2.3069	0.9799	0.0516	0.0000	0.0000	9.4988
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0662
TOTALS	0.0000	0.0000	0.0000	0.1147	2.1070	8.3389	6.1884	1.1930	0.0904	0.0061	0.0000	18.10

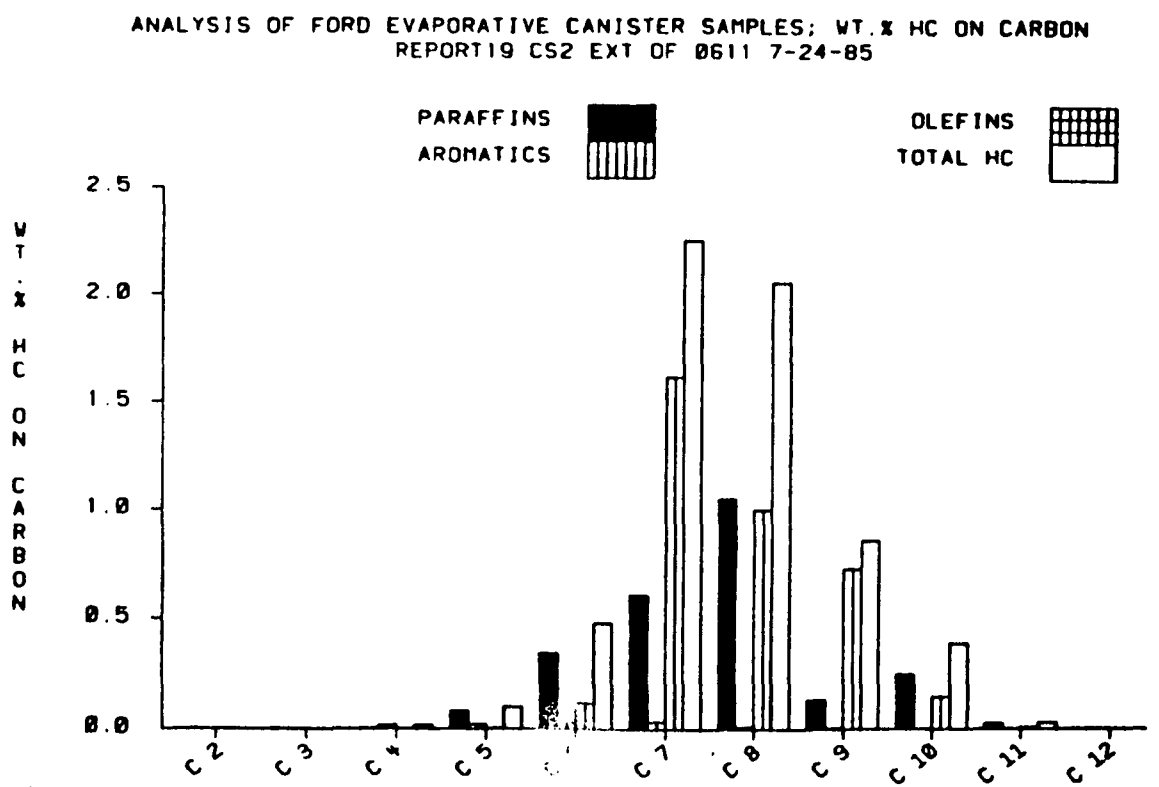


DATA FILE : REPORT19 CS2 EXT OF 0611 7-24-85

ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON

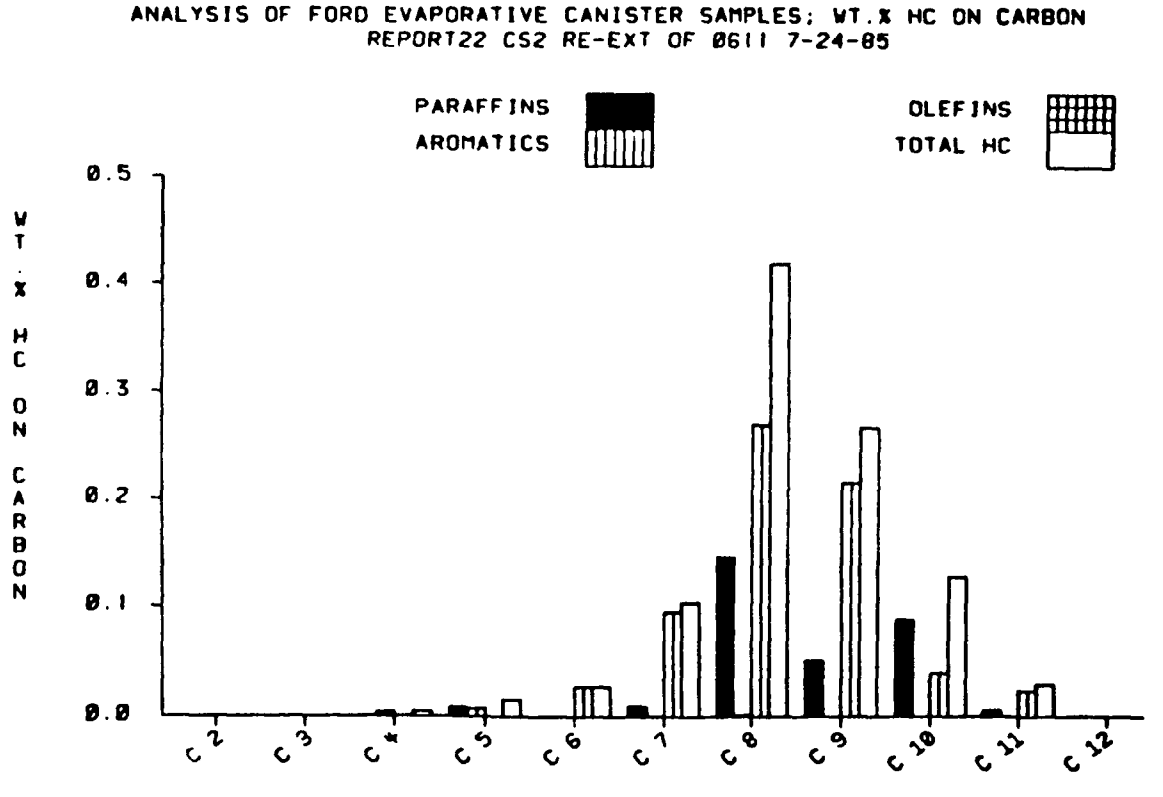
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0756	0.0851	0.0701	0.0470	0.0221	0.0169	0.0034	0.0000	0.3201
BRANCHED PARAFFINS	0.0000	0.0000	0.0003	0.0006	0.1999	0.4568	0.9658	0.0961	0.2258	0.0193	0.0000	1.9646
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0524	0.0755	0.0321	0.0109	0.0000	0.0000	0.0000	0.1710
OLEFINS	0.0000	0.0000	0.0138	0.0189	0.0260	0.0303	0.0088	0.0028	0.0000	0.0000	0.0000	0.1011
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1136	1.6122	0.9984	0.7238	0.1455	0.0041	0.0000	3.5975
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.3242
TOTALS	0.0000	0.0000	0.0140	0.0951	0.4769	2.2454	2.0521	0.8557	0.3882	0.0268	0.0000	6.48



DATA FILE : REPORT22 CS2 RE-EXT OF 0611 7-24-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0079	0.0000	0.0025	0.0169	0.0127	0.0013	0.0000	0.0000	0.0413
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0000	0.0065	0.1249	0.0384	0.0873	0.0055	0.0000	0.2628
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0033	0.0000	0.0000	0.0000	0.0000	0.0033
OLEFINS	0.0000	0.0000	0.0038	0.0072	0.0000	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000	0.0121
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0271	0.0945	0.2683	0.2151	0.0398	0.0237	0.0000	0.6685
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0000	0.0000	0.0000	0.0000	0.0029
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0074
TOTALS	0.0000	0.0000	0.0040	0.0151	0.0271	0.1034	0.4175	0.2662	0.1284	0.0293	0.0000	1.00

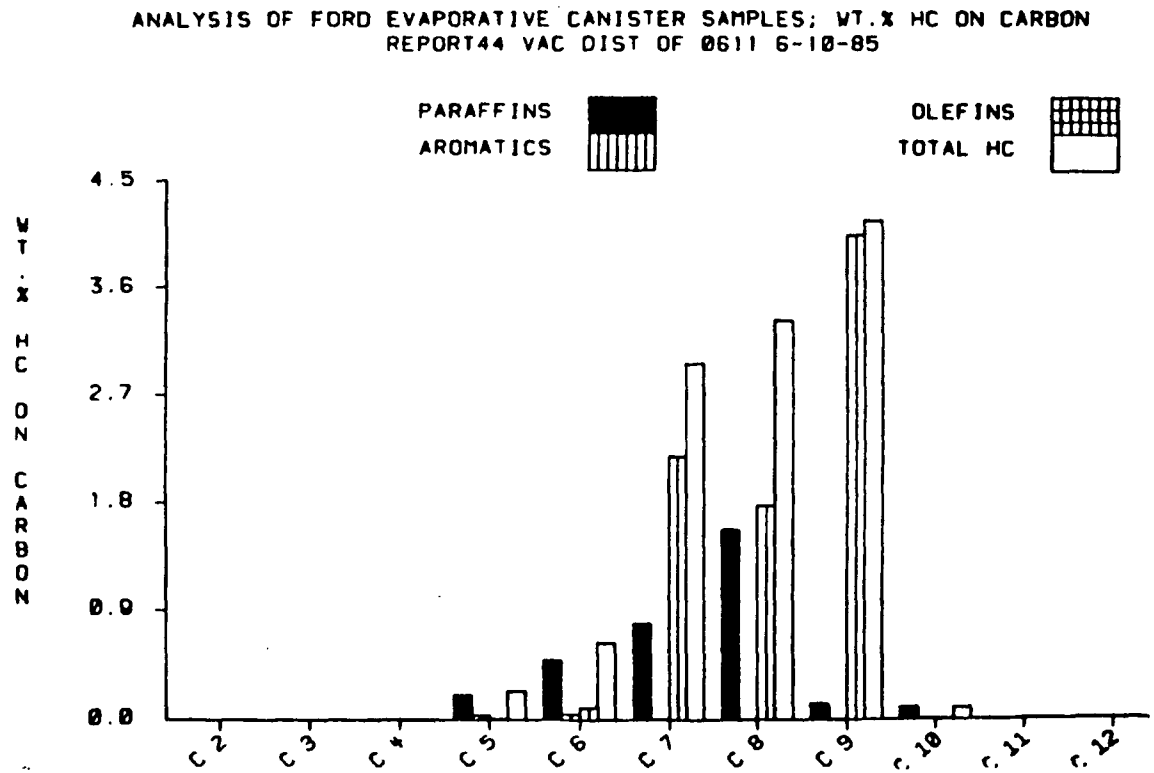


DATA FILE : REPORT44 VAC DIST OF 0611 6-10-85

ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON

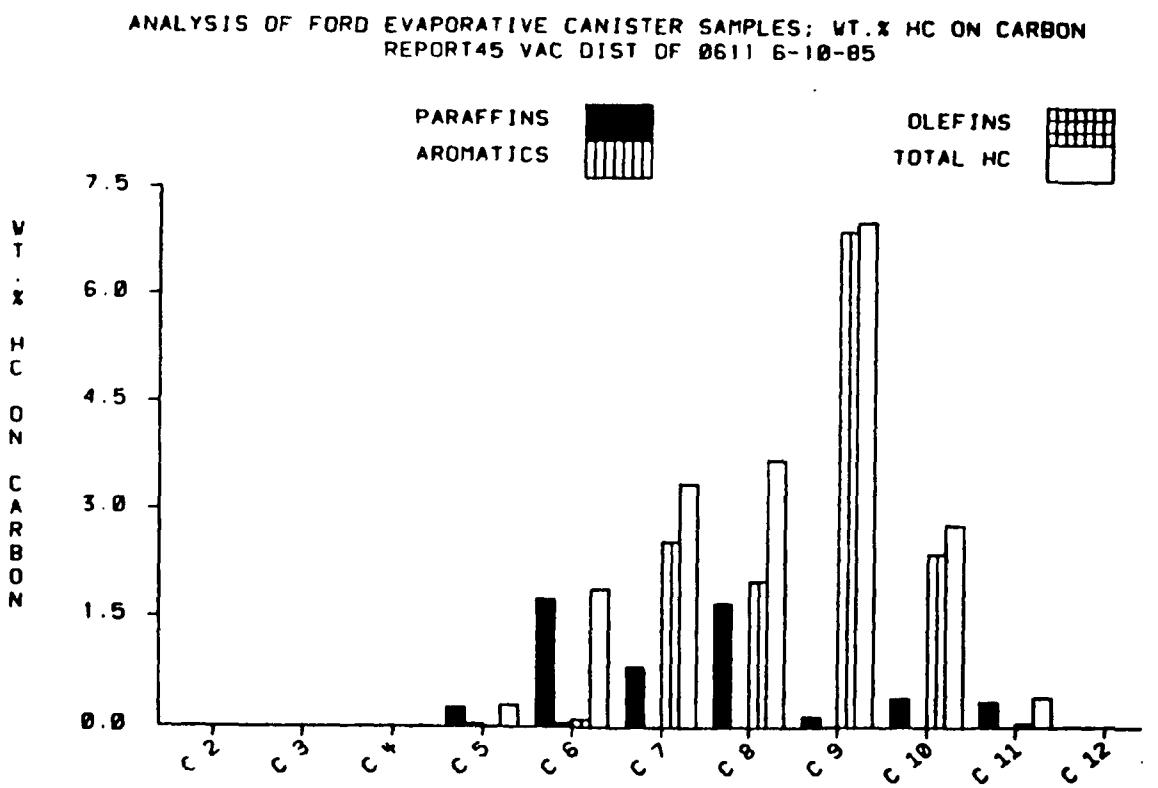
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0973	0.1029	0.0436	0.0369	0.0454	0.0948	0.0000	0.0000	0.4209
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0993	0.2894	0.6829	1.5074	0.0795	0.0000	0.0000	0.0000	2.6535
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0906	0.0529	0.0112	0.0000	0.0000	0.0000	0.0000	0.1547
OLEFINS	0.0000	0.0000	0.0000	0.0311	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0731
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0953	2.1693	1.7577	4.0279	0.0000	0.0000	0.0000	8.0501
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0000
TOTALS	0.0000	0.0000	0.0000	0.2277	0.6202	2.9487	3.3132	4.1527	0.0948	0.0000	0.0000	11.36



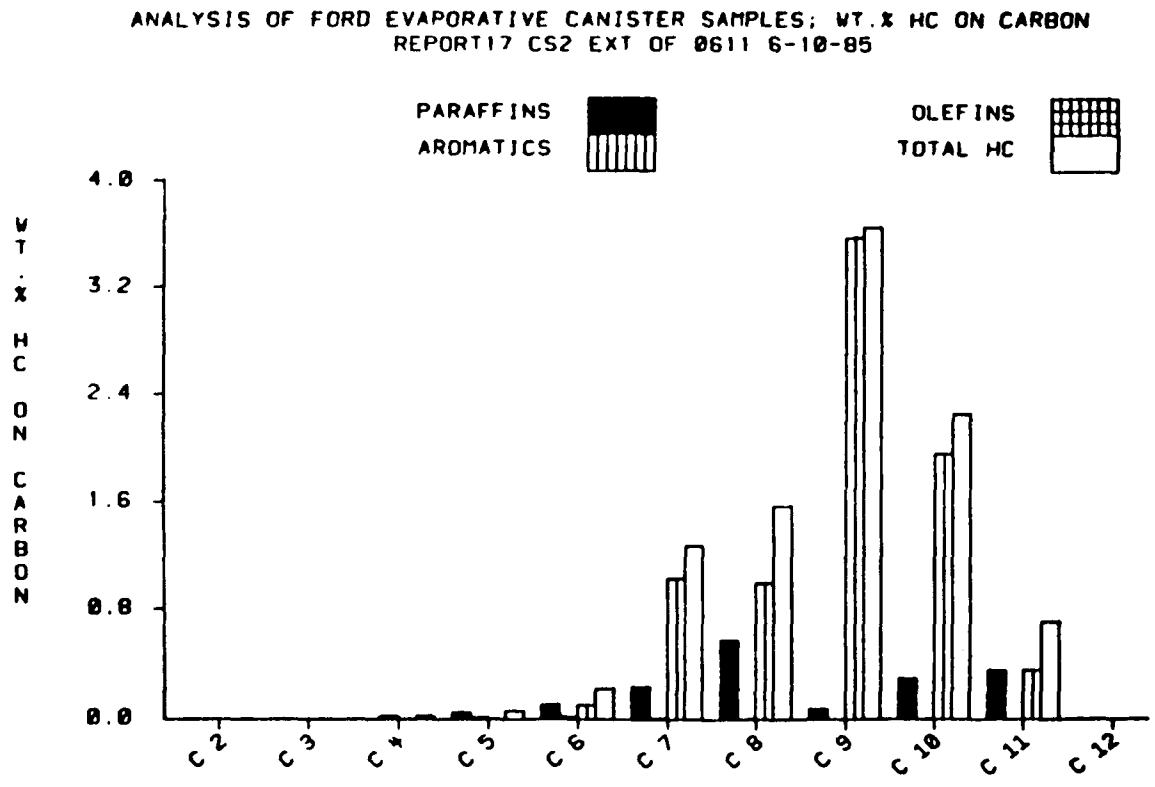
DATA FILE : REPORT45 VAC DIST OF 0611 6-10-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1248	1.1991	0.0450	0.0397	0.0479	0.2568	0.0516	0.0000	1.7648
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.1280	0.3477	0.7050	1.6288	0.0900	0.1401	0.3026	0.0000	3.3421
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1994	0.0551	0.0131	0.0000	0.0000	0.0000	0.0000	0.2676
OLEFINS	0.0000	0.0000	0.0000	0.0365	0.0431	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0796
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0921	2.5379	1.9996	6.8720	2.3896	0.0541	0.0000	13.9453
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2813
TOTALS	0.0000	0.0000	0.0000	0.2893	1.8813	3.3430	3.6812	7.0100	2.7865	0.4082	0.0000	19.68



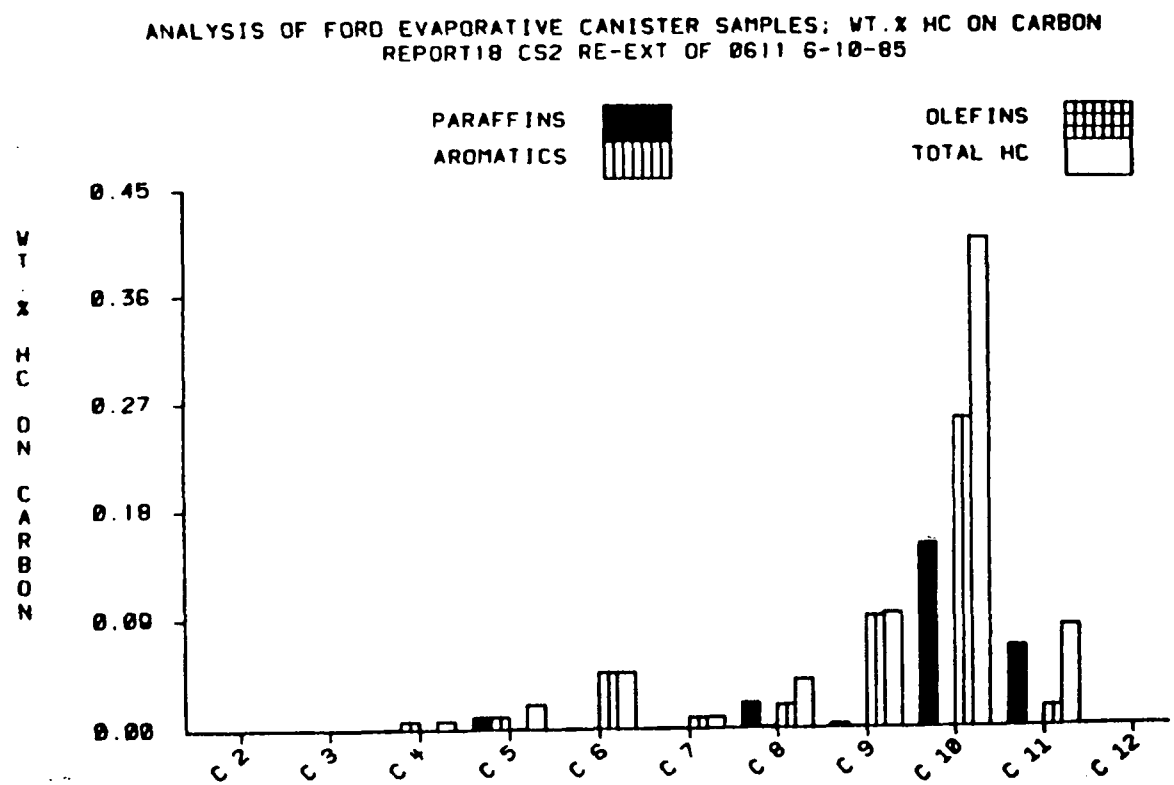
DATA FILE : REPORT17 CS2 EXT OF 0611 6-10-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0470	0.0247	0.0113	0.0131	0.0237	0.1445	0.0505	0.0000	0.3148
BRANCHED PARAFFINS	0.0000	0.0000	0.0004	0.0000	0.0570	0.1989	0.5414	0.0243	0.1493	0.3061	0.0000	1.2775
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0205	0.0217	0.0163	0.0235	0.0000	0.0000	0.0000	0.0821
OLEFINS	0.0000	0.0000	0.0205	0.0105	0.0158	0.0086	0.0034	0.0034	0.0000	0.0000	0.0000	0.0622
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1013	1.0264	0.9900	3.5670	1.9563	0.3583	0.0000	7.9992
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.4390
TOTALS	0.0000	0.0000	0.0210	0.0575	0.2194	1.2669	1.5641	3.6419	2.2501	0.7149	0.0000	10.17



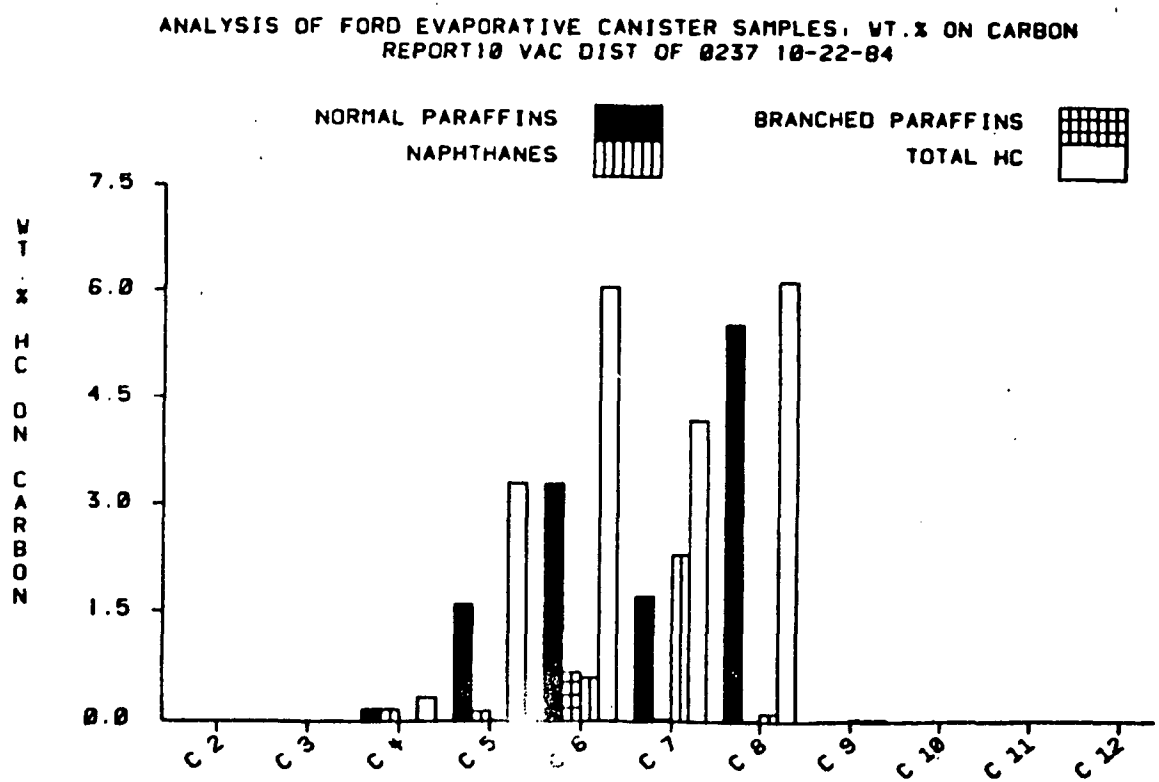
DATA FILE : REPORT18 CS2 RE-EXT OF 0611 6-10-85
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0099	0.0000	0.0000	0.0039	0.0024	0.0036	0.0112	0.0000	0.0309
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	0.0147	0.0000	0.1467	0.0545	0.0000	0.2161
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015	0.0000	0.0000	0.0000	0.0000	0.0015
OLEFINS	0.0000	0.0000	0.0067	0.0098	0.0000	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0171
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0454	0.0086	0.0183	0.0910	0.2562	0.0164	0.0000	0.4359
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.5043
TOTALS	0.0000	0.0000	0.0069	0.0197	0.0454	0.0086	0.0391	0.0934	0.4065	0.0821	0.0000	1.21



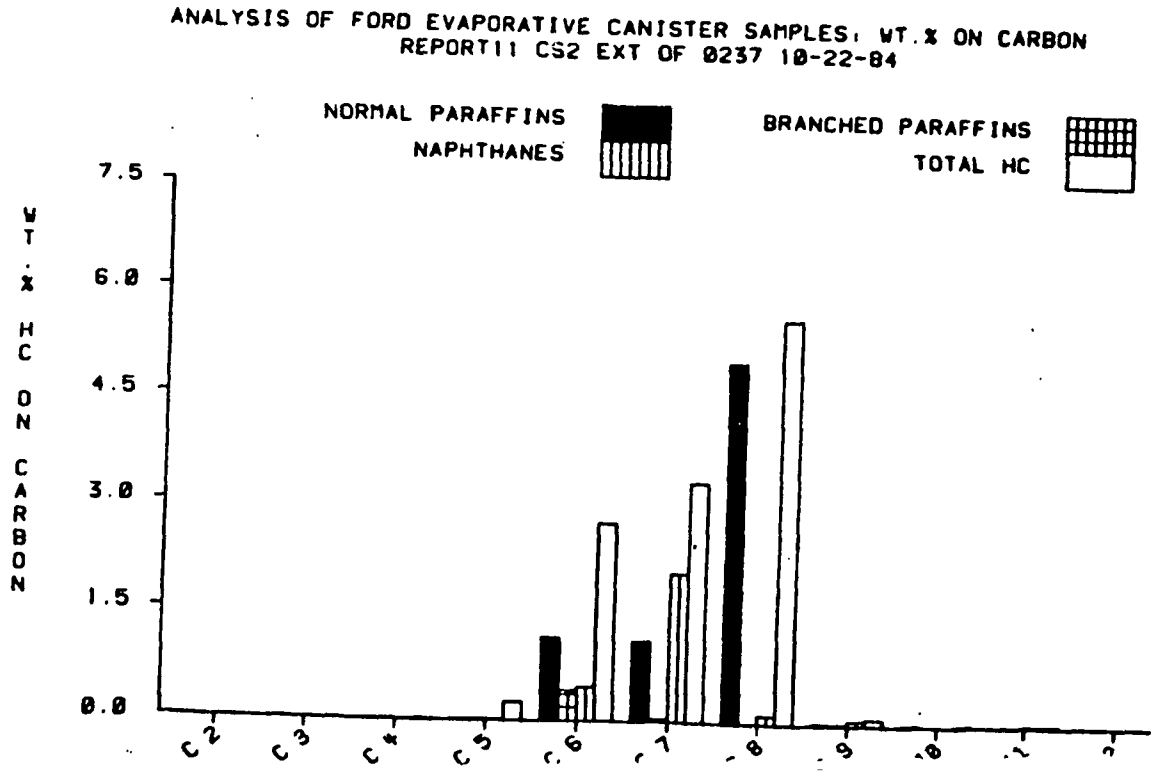
DATA FILE : REPORT10 VAC DIST OF 0237 10-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	1.5625	1.0019	0.0616	0.0083	0.0000	0.0000	0.0000	0.0000	2.6343
BRANCHED PARAFFINS	0.0000	0.0000	0.1624	1.6023	3.2924	1.7177	5.5108	0.0000	0.0000	0.0000	0.0000	12.2855
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.4970	0.0915	0.4879	0.0000	0.0000	0.0000	0.0000	1.0764
OLEFINS	0.0000	0.0000	0.1596	0.1360	0.6678	0.0151	0.0080	0.0000	0.0000	0.0000	0.0000	0.9365
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.5899	2.2922	0.1007	0.0235	0.0000	0.0000	0.0000	3.0063
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0000
TOTALS	0.0000	0.0000	0.3220	3.3008	6.0490	4.1781	6.1156	0.0235	0.0000	0.0000	0.0000	19.99



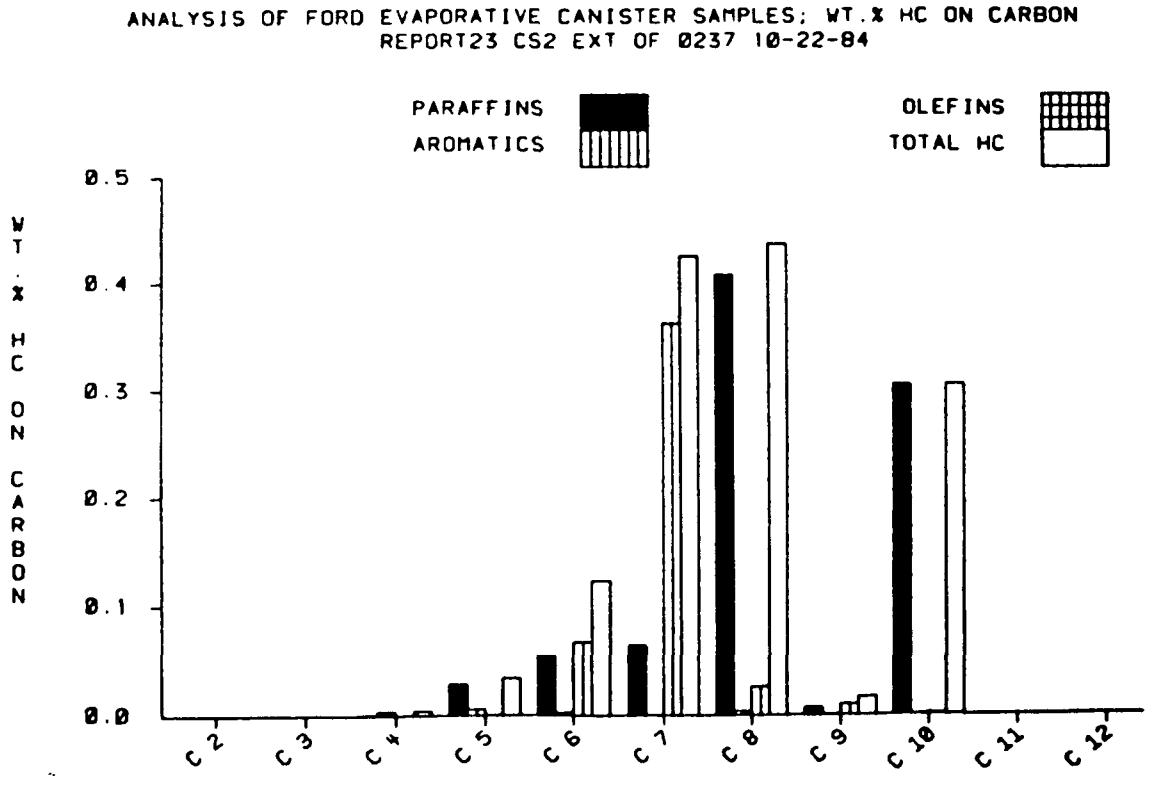
DATA FILE : REPORT11 CS2 EXT OF 0237 10-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.2322	0.4756	0.0476	0.0124	0.0016	0.0000	0.0000	0.0000	0.7694
BRANCHED PARAFFINS	0.0000	0.0000	0.0028	0.0006	1.1354	1.1060	5.0083	0.0165	0.0155	0.0021	0.0000	7.2871
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.2554	0.0843	0.4881	0.0000	0.0000	0.0000	0.0000	0.8278
OLEFINS	0.0000	0.0000	0.0051	0.0131	0.4177	0.0300	0.0000	0.0067	0.0000	0.0000	0.0000	0.4725
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.4615	2.0587	0.1118	0.0618	0.0025	0.0169	0.0000	2.7132
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	1.3349
TOTALS	0.0000	0.0000	0.0079	0.2459	2.7456	3.3265	5.6205	0.0866	0.0181	0.0190	0.0000	13.40



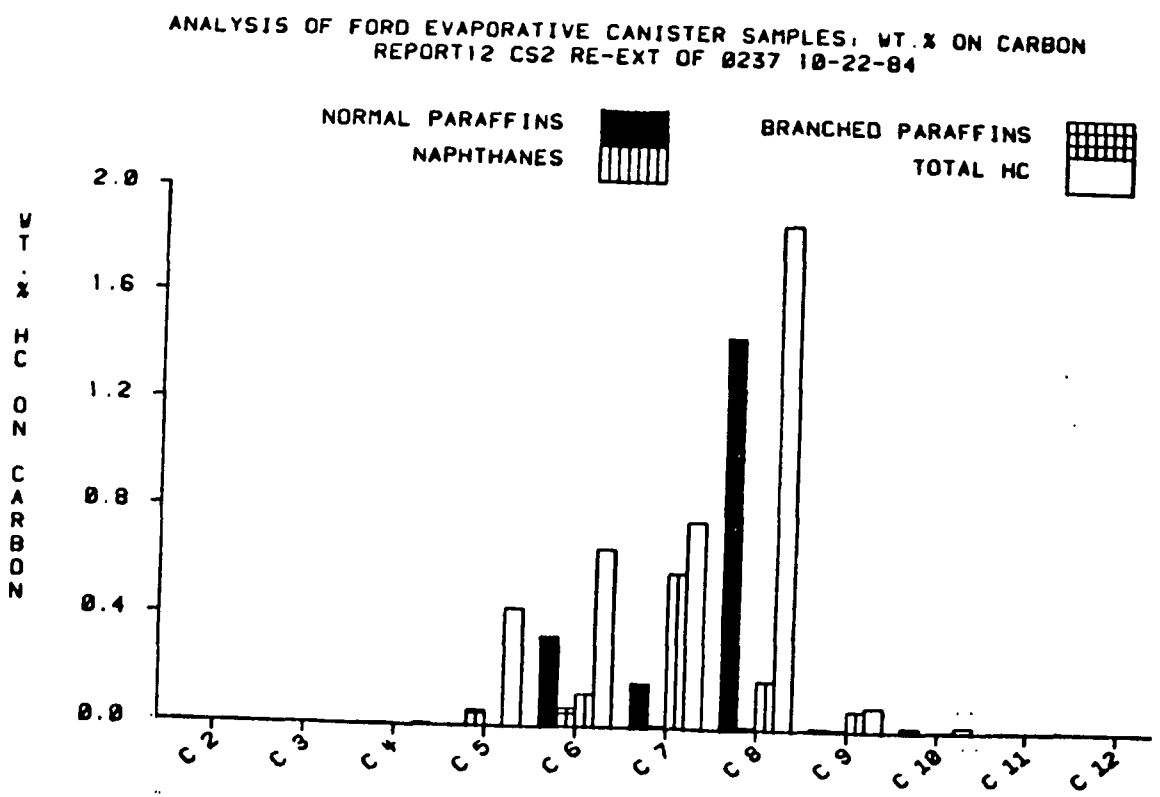
DATA FILE : REPORT23 CS2 EXT OF 0237 10-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0283	0.0158	0.0021	0.0010	0.0015	0.0000	0.0000	0.0000	0.0487
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0329	0.0539	0.3937	0.0028	0.3046	0.0000	0.0000	0.7981
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0050	0.0020	0.0058	0.0023	0.0000	0.0000	0.0000	0.0151
OLEFINS	0.0000	0.0000	0.0035	0.0054	0.0021	0.0000	0.0036	0.0000	0.0000	0.0000	0.0000	0.0146
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0666	0.3608	0.0260	0.0096	0.0007	0.0000	0.0000	0.4638
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.3799
TOTALS	0.0000	0.0000	0.0037	0.0337	0.1224	0.4237	0.4351	0.0162	0.3053	0.0000	0.0000	1.72



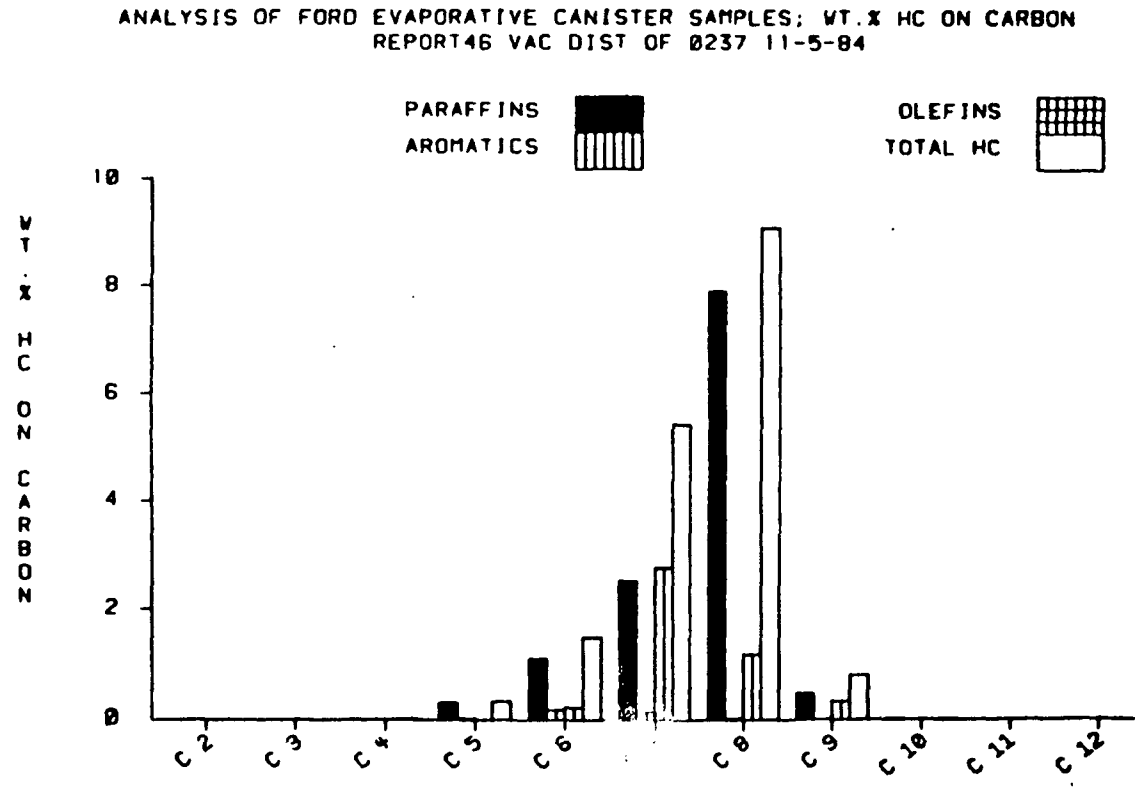
DATA FILE : REPORT12 CS2 RE-EXT OF 0237 10-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.3776	0.0799	0.0123	0.0070	0.0016	0.0000	0.0000	0.0000	0.4785
BRANCHED PARAFFINS	0.0000	0.0000	0.0008	0.0000	0.3316	0.1640	1.4513	0.0086	0.0176	0.0016	0.0000	1.9754
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0598	0.0094	0.2302	0.0000	0.0000	0.0000	0.0000	0.2993
OLEFINS	0.0000	0.0000	0.0031	0.0550	0.0667	0.0050	0.0073	0.0045	0.0000	0.0000	0.0000	0.1416
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1193	0.5698	0.1793	0.0746	0.0022	0.0000	0.0000	0.9452
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0360
TOTALS	0.0000	0.0000	0.0039	0.4327	0.6571	0.7605	1.8750	0.0894	0.0198	0.0016	0.0000	3.93



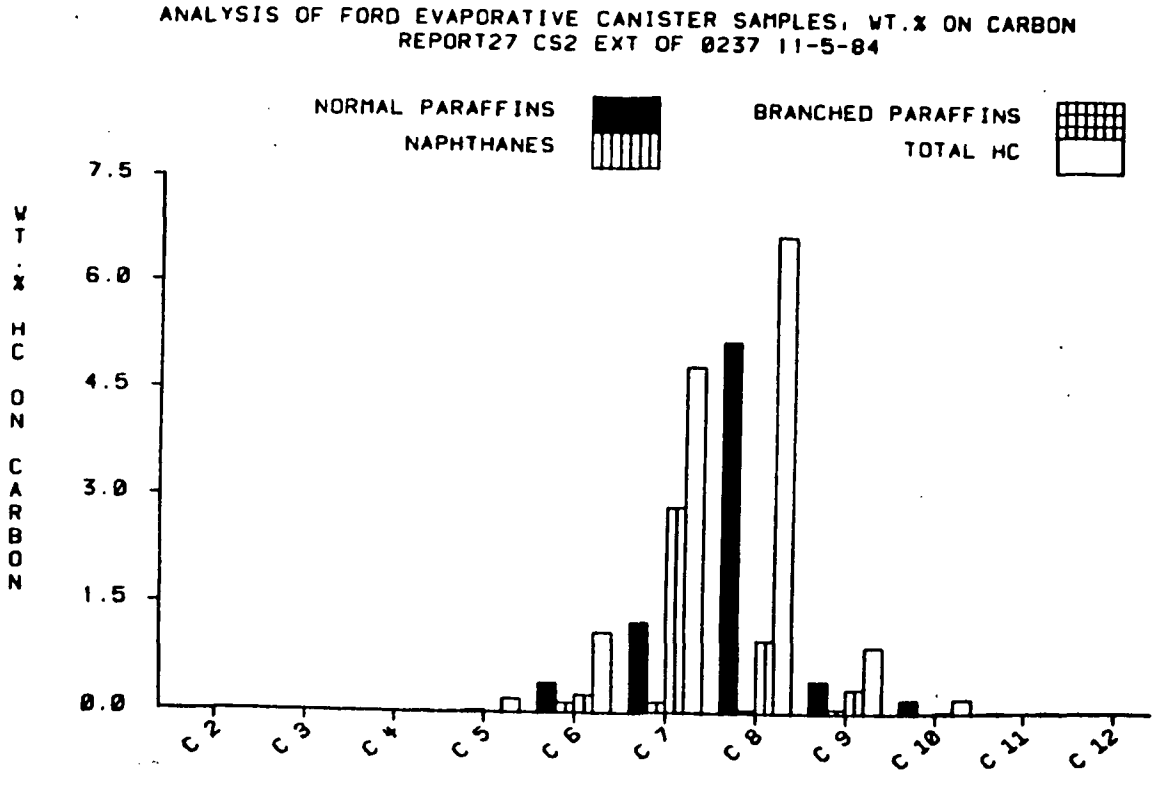
DATA FILE : REPORT46 VAC DIST OF 0237 11-5-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1671	0.3848	0.5428	0.3722	0.0460	0.0000	0.0000	0.0000	1.5129
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.1364	0.5643	1.7001	7.2711	0.4273	0.0154	0.0000	0.0000	10.1145
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1410	0.2618	0.2158	0.0000	0.0000	0.0000	0.0000	0.6186
OLEFINS	0.0000	0.0000	0.0000	0.0209	0.1706	0.1392	0.0205	0.0000	0.0000	0.0000	0.0000	0.3512
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2141	2.7531	1.1745	0.3298	0.0000	0.0000	0.0000	4.4716
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0304
TOTALS	0.0000	0.0000	0.0000	0.3243	1.4749	5.3970	9.0540	0.8031	0.0154	0.0000	0.0000	17.15



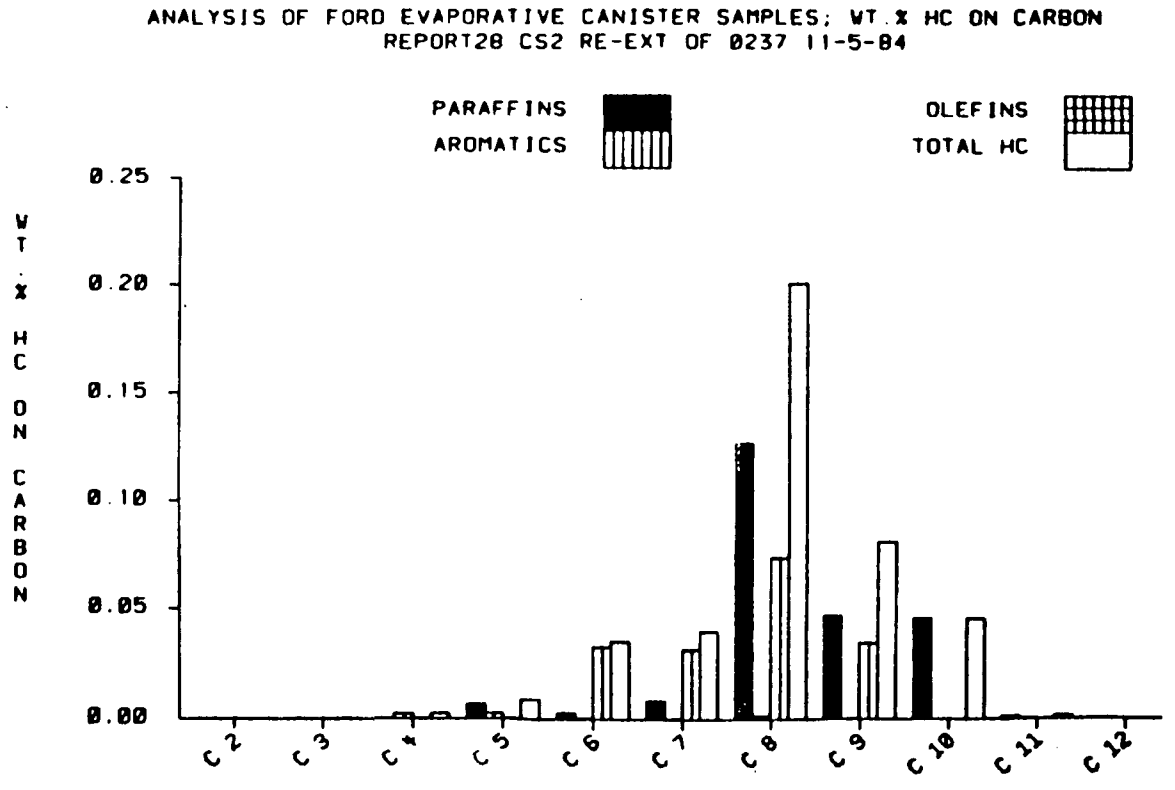
DATA FILE : REPORT27 CS2 EXT OF 0237 11-5-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1605	0.2436	0.3921	0.2691	0.0569	0.0018	0.0000	0.0000	1.1242
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.4012	1.2420	5.1516	0.4477	0.1853	0.0133	0.0000	7.4412
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0922	0.2020	0.1985	0.0237	0.0000	0.0000	0.0000	0.5164
OLEFINS	0.0000	0.0000	0.0028	0.0231	0.1255	0.1342	0.0412	0.0563	0.0000	0.0000	0.0000	0.3331
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2402	2.8370	0.9940	0.3283	0.0127	0.0000	0.0000	4.4121
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2210
TOTALS	0.0000	0.0000	0.0029	0.1836	1.1027	4.8073	6.6544	0.9130	0.1999	0.0133	0.0000	14.10



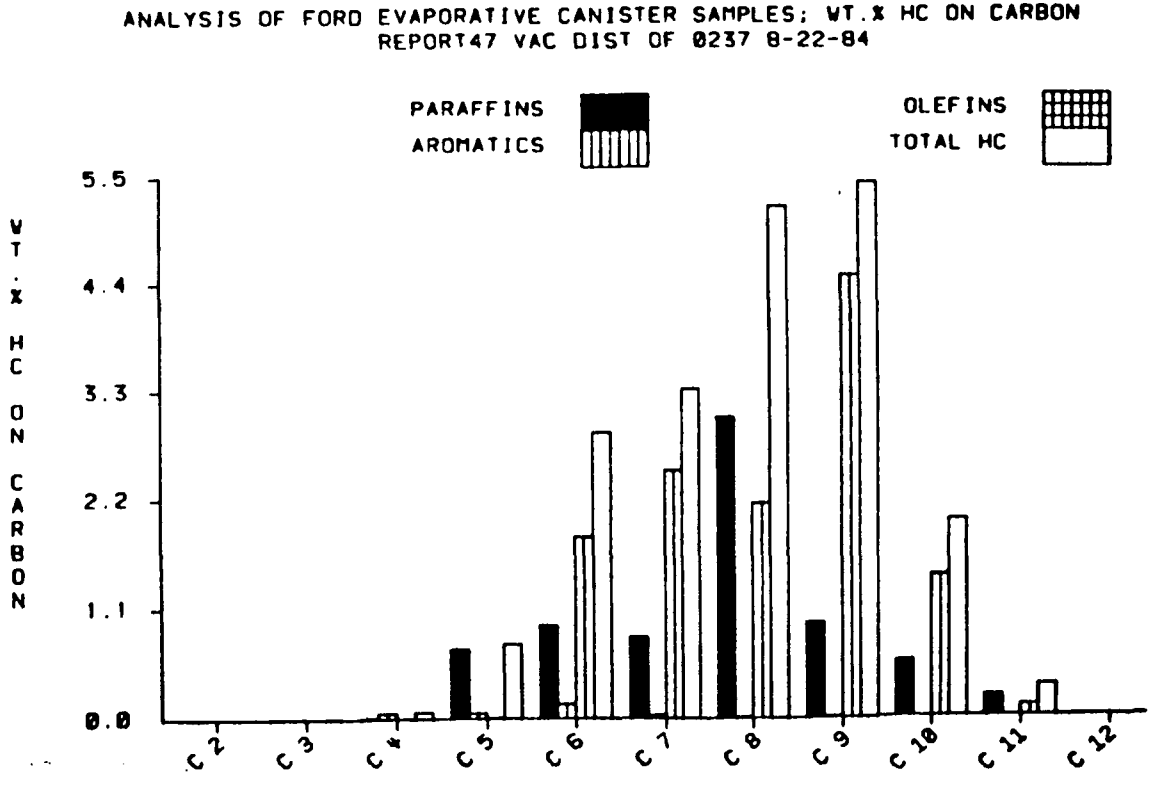
DATA FILE : REPORT28 CS2 RE-EXT OF 0237 11-5-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0057	0.0008	0.0029	0.0156	0.0083	0.0000	0.0000	0.0000	0.0334
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0006	0.0017	0.0051	0.1073	0.0372	0.0457	0.0012	0.0000	0.1993
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0024	0.0010	0.0000	0.0000	0.0000	0.0034
OLEFINS	0.0000	0.0000	0.0021	0.0023	0.0000	0.0002	0.0013	0.0000	0.0000	0.0000	0.0000	0.0059
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0323	0.0312	0.0732	0.0344	0.0000	0.0000	0.0000	0.1711
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0311
TOTALS	0.0000	0.0000	0.0021	0.0036	0.0348	0.0394	0.2002	0.0810	0.0457	0.0012	0.0000	0.44



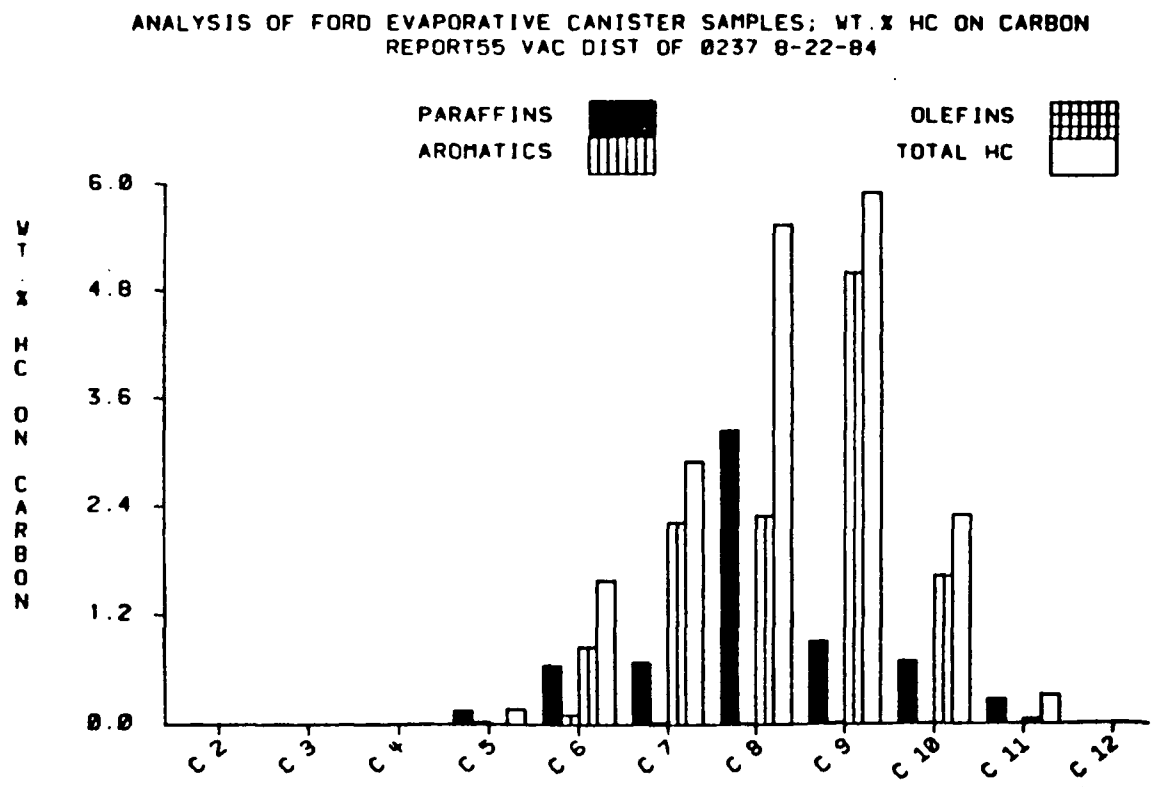
DATA FILE : REPORT47 VAC DIST OF 0237 8-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.2938	0.2316	0.1141	0.2069	0.2214	0.1058	0.0312	0.0000	1.2049
BRANCHED PARAFFINS	0.0000	0.0000	0.0087	0.3954	0.5691	0.6144	2.7287	0.6770	0.4564	0.1765	0.0000	5.6262
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1234	0.0755	0.0863	0.0497	0.0000	0.0000	0.0000	0.3349
OLEFINS	0.0000	0.0000	0.0523	0.0497	0.1394	0.0292	0.0074	0.0102	0.0000	0.0000	0.0000	0.2882
AROMATICS	0.0000	0.0000	0.0000	0.0000	1.8141	2.4807	2.1504	4.4759	1.4266	0.1059	0.0000	12.4537
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2845
TOTALS	0.0000	0.0000	0.0609	0.7390	2.3775	3.3140	5.1797	5.4342	1.9889	0.3137	0.0000	20.19



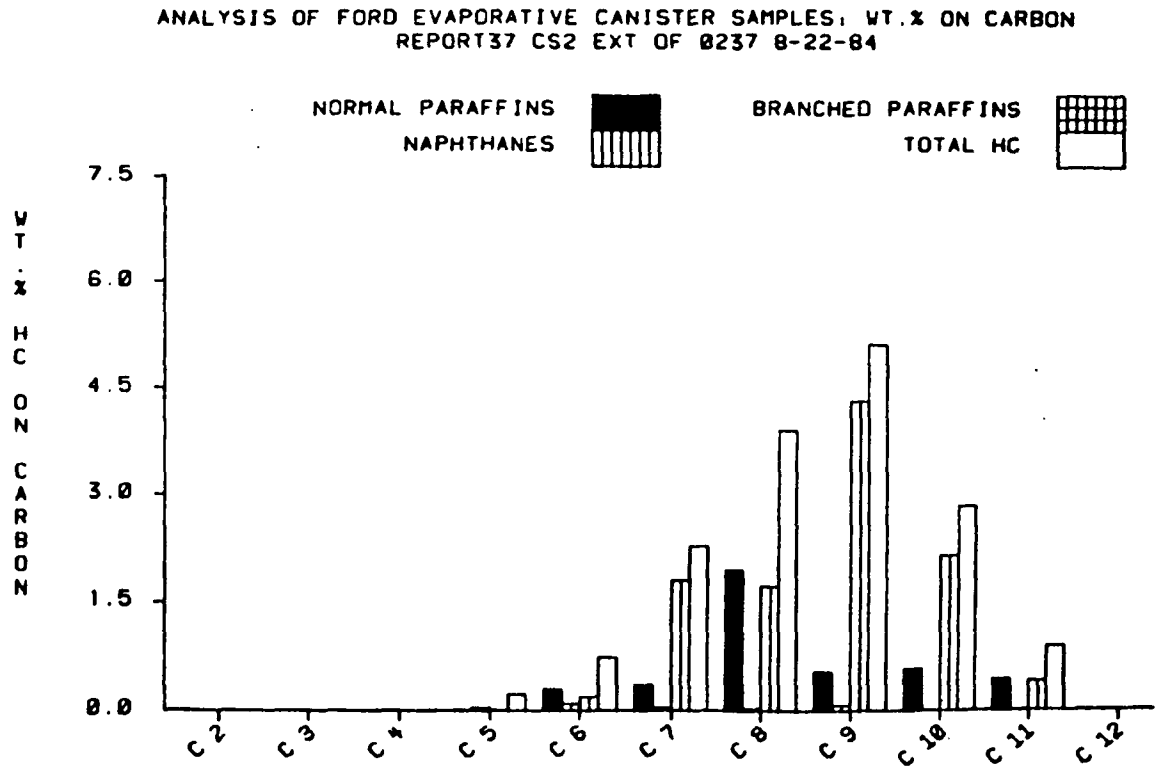
DATA FILE : REPORT55 VAC DIST OF 0237 8-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0951	0.1604	0.1002	0.2089	0.2056	0.1142	0.0413	0.0000	0.9256
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0500	0.3754	0.5188	2.9589	0.6831	0.5676	0.2230	0.0000	5.3768
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0930	0.0463	0.0589	0.0140	0.0000	0.0000	0.0000	0.2122
OLEFINS	0.0000	0.0000	0.0000	0.0185	0.0985	0.0157	0.0082	0.0057	0.0000	0.0000	0.0000	0.1467
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.8358	2.2047	2.2877	4.9934	1.6239	0.0449	0.0000	11.9903
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2078
TOTALS	0.0000	0.0000	0.0000	0.1637	1.5631	2.8857	5.5226	5.9017	2.3057	0.3091	0.0000	18.86



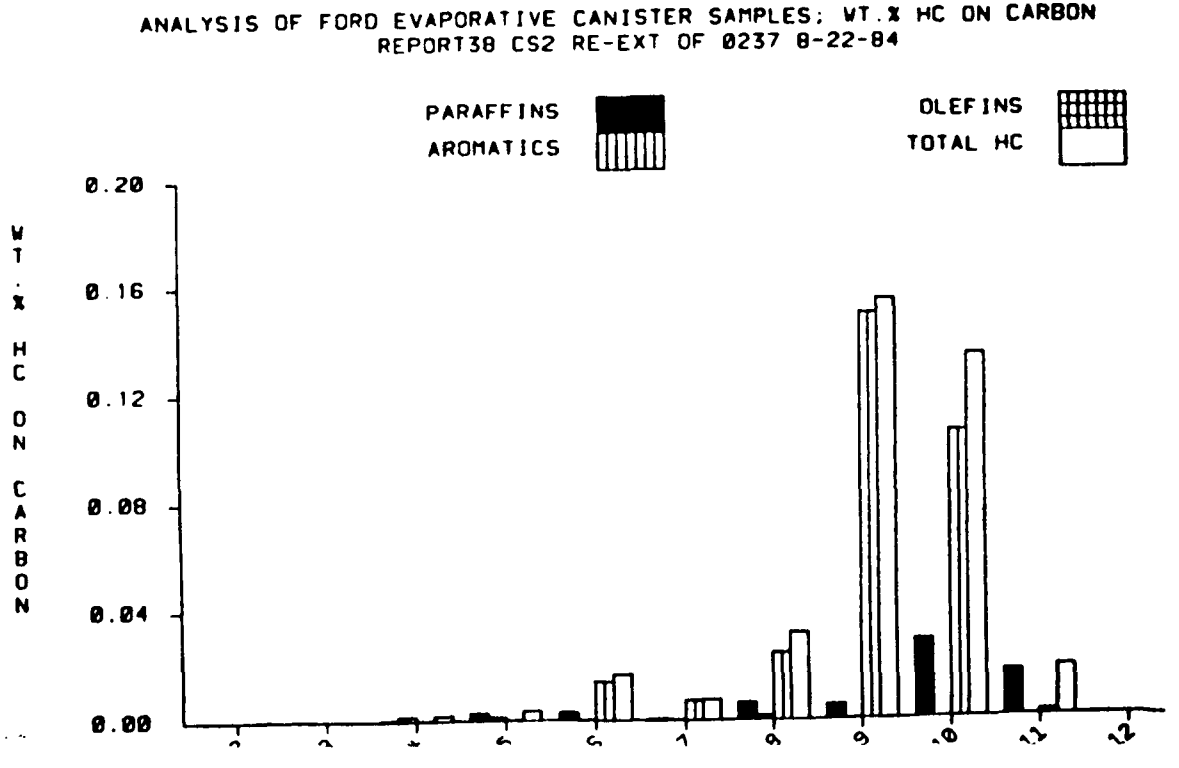
DATA FILE : REPORT37 CS2 EXT OF 0237 8-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1887	0.1175	0.0558	0.1324	0.1489	0.1186	0.0564	0.0000	0.8183
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.2880	0.3479	1.9321	0.5311	0.5738	0.4306	0.0000	4.1037
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0644	0.0387	0.0932	0.0501	0.0000	0.0000	0.0000	0.2464
OLEFINS	0.0000	0.0000	0.0027	0.0316	0.0807	0.0275	0.0254	0.0663	0.0000	0.0000	0.0000	0.2342
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1770	1.7939	1.7057	4.2960	2.1406	0.4007	0.0000	10.5138
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.4330
TOTALS	0.0000	0.0000	0.0029	0.2202	0.7276	2.2633	3.8888	5.0924	2.8330	0.8877	0.0000	16.35



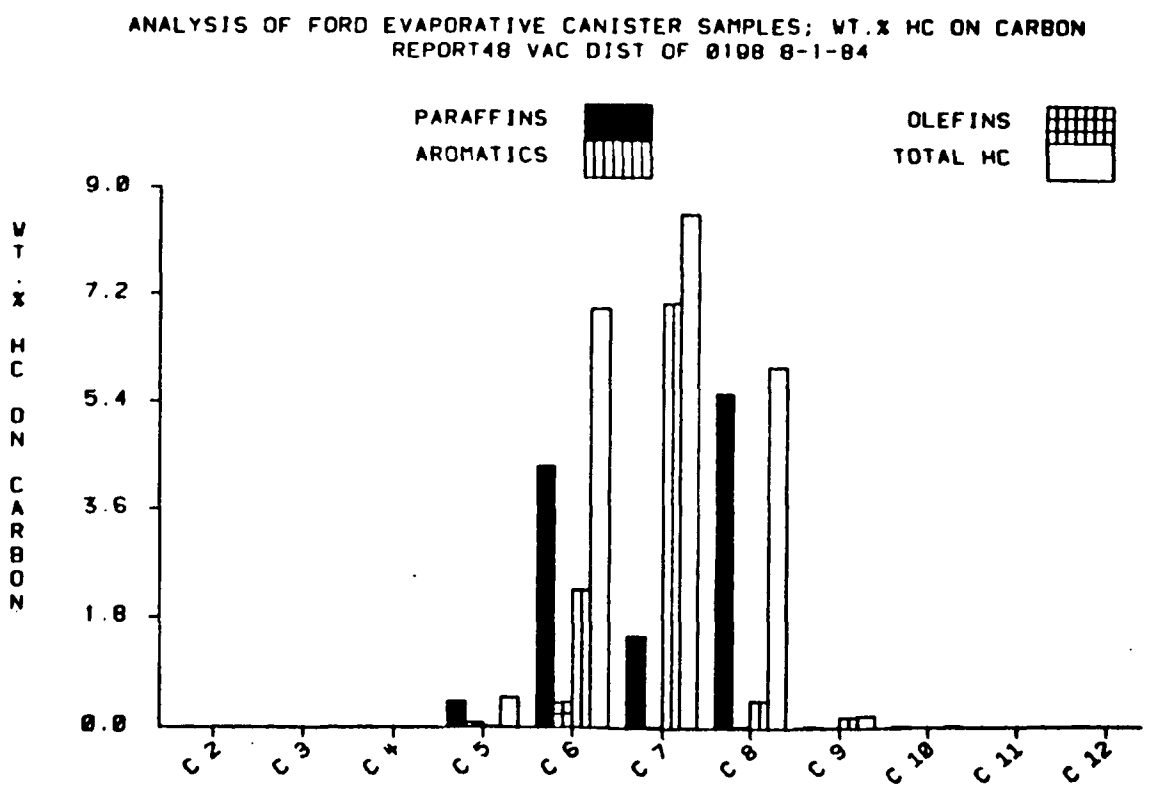
DATA FILE : REPORT38 CS2 RE-EXT OF 0237 8-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0023	0.0022	0.0003	0.0020	0.0023	0.0025	0.0000	0.0000	0.0117
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	0.0032	0.0021	0.0260	0.0166	0.0000	0.0482
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0005	0.0000	0.0008	0.0008	0.0000	0.0000	0.0000	0.0020
OLEFINS	0.0000	0.0000	0.0015	0.0010	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000	0.0037
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0139	0.0070	0.0241	0.1497	0.1062	0.0016	0.0000	0.3026
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0321
TOTALS	0.0000	0.0000	0.0017	0.0033	0.0166	0.0073	0.0315	0.1549	0.1347	0.0132	0.0000	0.40



DATA FILE : REPORT48 VAC DIST OF 0198 8-1-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.2765	1.8786	0.0962	0.0230	0.0119	0.0000	0.0000	0.0000	2.2863
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.1351	1.9275	1.2923	5.4007	0.0051	0.0138	0.0000	0.0000	8.7751
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.4977	0.0968	0.0783	0.0000	0.0000	0.0000	0.0000	0.6729
OLEFINS	0.0000	0.0000	0.0000	0.0693	0.3934	0.0132	0.0166	0.0000	0.0000	0.0000	0.0000	0.4925
AROMATICS	0.0000	0.0000	0.0000	0.0000	2.2499	7.0243	0.4417	0.1739	0.0000	0.0000	0.0000	9.8898
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0212
TOTALS	0.0000	0.0000	0.0000	0.4809	6.9471	8.5233	5.9604	0.1910	0.0138	0.0000	0.0000	22.14

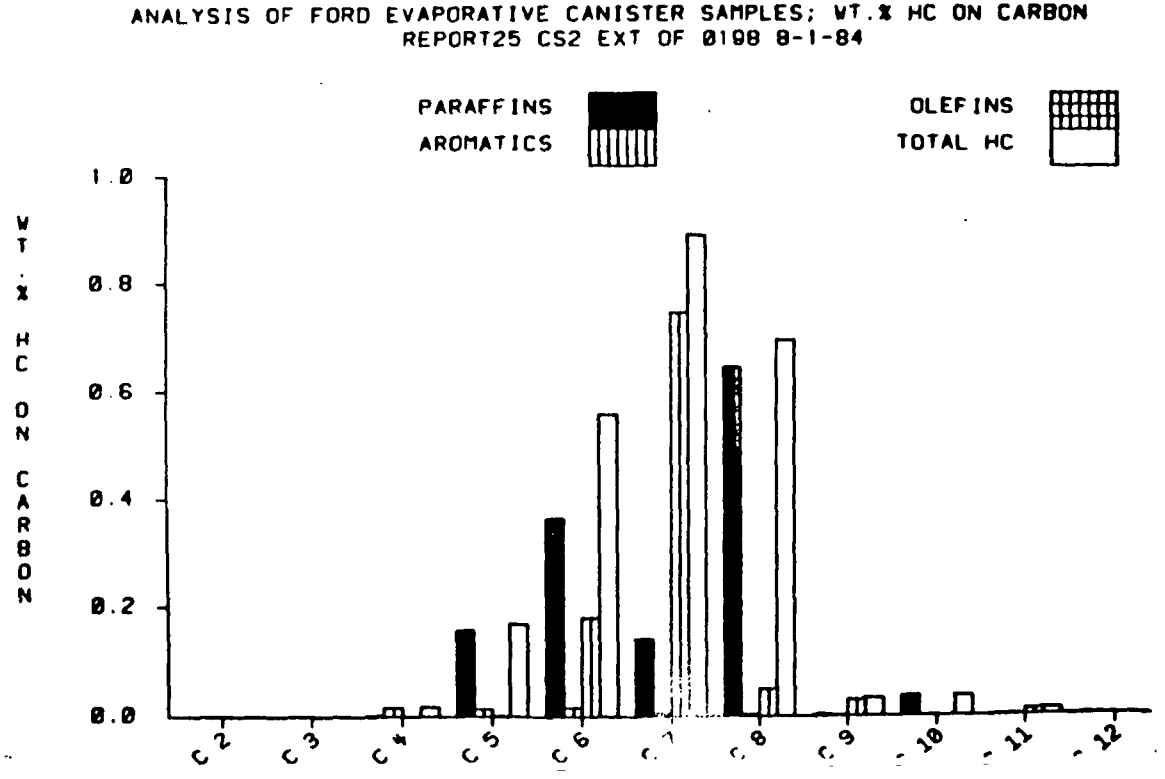


DATA FILE : REPORT25 CS2 EXT OF 0198 8-1-84

ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON

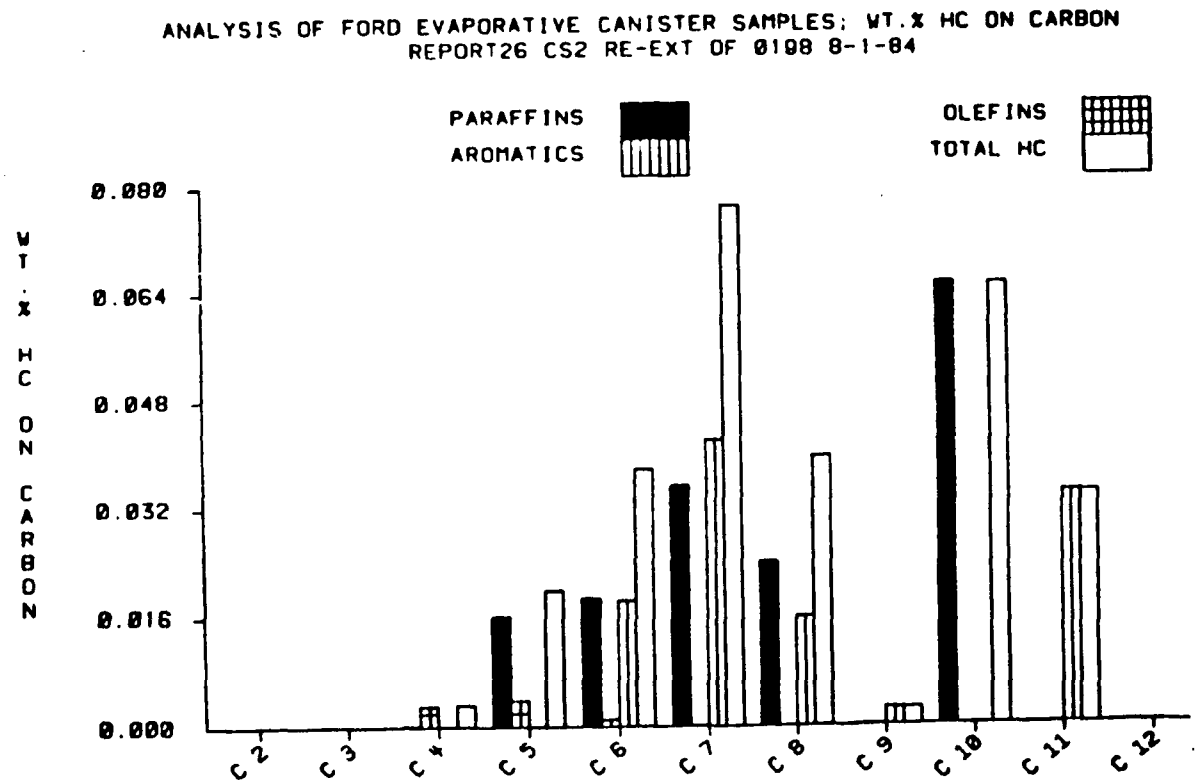
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1557	0.0857	0.0067	0.0020	0.0006	0.0000	0.0000	0.0000	0.2507
BRANCHED PARAFFINS	0.0000	0.0000	0.0010	0.0009	0.2423	0.1246	0.6338	0.0021	0.0360	0.0000	0.0000	1.0407
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0317	0.0080	0.0063	0.0000	0.0000	0.0000	0.0000	0.0460
OLEFINS	0.0000	0.0000	0.0155	0.0125	0.0151	0.0045	0.0014	0.0000	0.0000	0.0000	0.0000	0.0491
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.1795	0.7432	0.0491	0.0288	0.0000	0.0108	0.0000	1.0113
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0120
TOTALS	0.0000	0.0000	0.0166	0.1690	0.5543	0.8870	0.6926	0.0315	0.0360	0.0108	0.0000	2.41



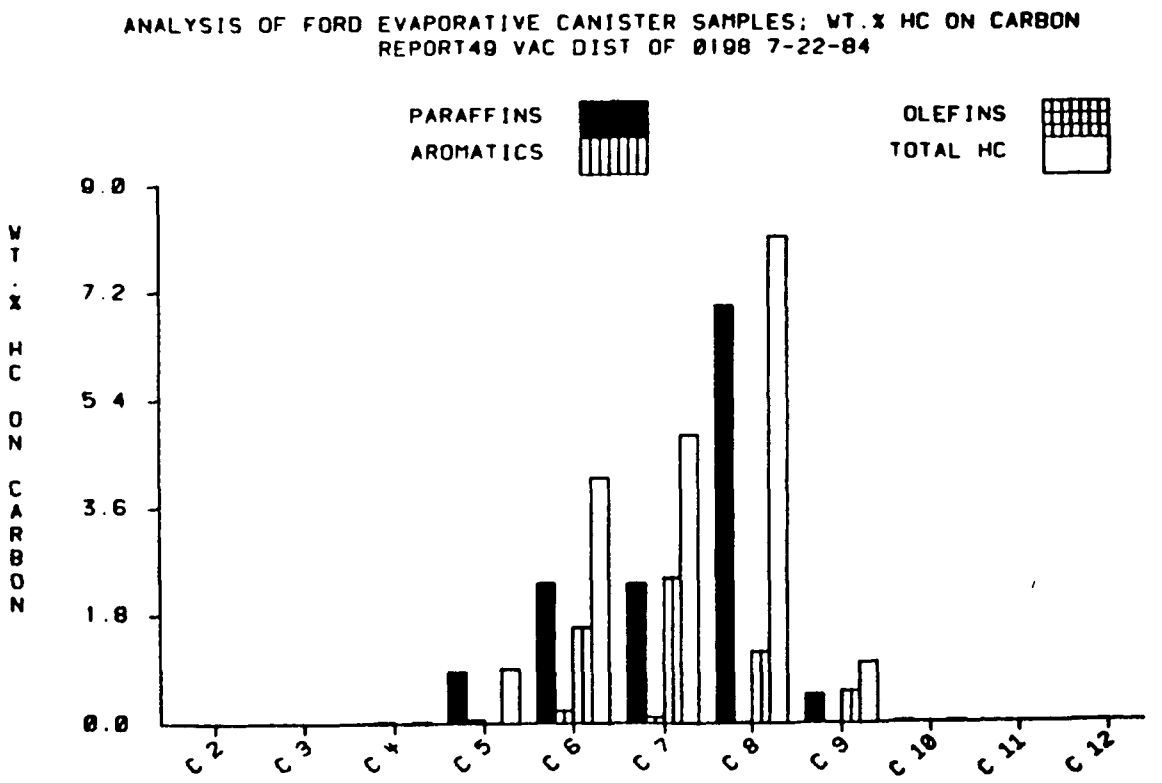
DATA FILE : REPORT26 CS2 RE-EXT OF 0198 8-1-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0160	0.0035	0.0330	0.0000	0.0000	0.0000	0.0000	0.0000	0.0525
BRANCHED PARAFFINS	0.0000	0.0000	0.0001	0.0000	0.0123	0.0020	0.0237	0.0000	0.0652	0.0000	0.0000	0.1034
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0026
OLEFINS	0.0000	0.0000	0.0030	0.0038	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0077
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0182	0.0418	0.0158	0.0025	0.0000	0.0341	0.0000	0.1124
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0029
TOTALS	0.0000	0.0000	0.0031	0.0197	0.0376	0.0768	0.0395	0.0025	0.0652	0.0341	0.0000	0.28



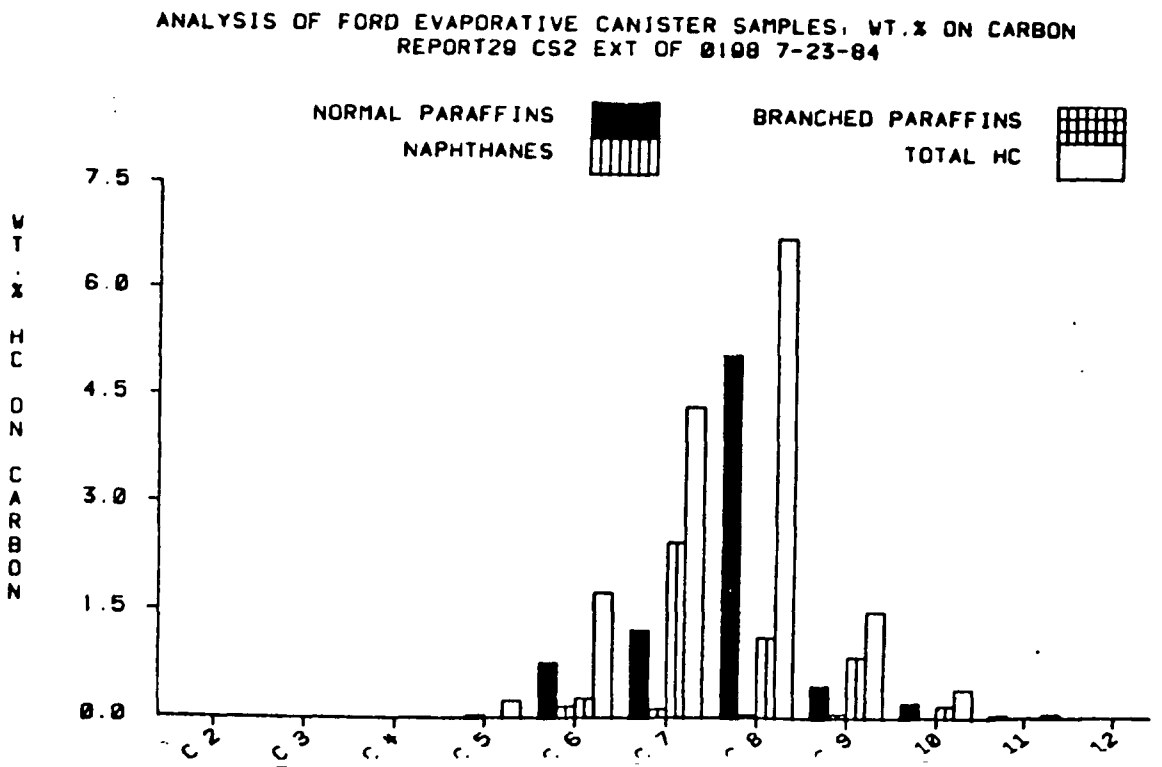
DATA FILE : REPORT49 VAC DIST OF 0193 7-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.3312	0.6735	0.4026	0.2856	0.0663	0.0000	0.0000	0.0000	1.7592
BRANCHED PARAFFINS	0.0000	0.0000	0.0038	0.5085	1.2975	1.6311	6.5070	0.4024	0.0209	0.0000	0.0000	10.3712
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.3311	0.2611	0.1314	0.0000	0.0000	0.0000	0.0000	0.7236
OLEFINS	0.0000	0.0000	0.0222	0.0578	0.1954	0.0926	0.0081	0.0000	0.0000	0.0000	0.0000	0.3760
AROMATICS	0.0000	0.0000	0.0000	0.0000	1.5706	2.3936	1.1673	0.5213	0.0000	0.0000	0.0000	5.6527
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0806
TOTALS	0.0000	0.0000	0.0259	0.8975	4.0681	4.7810	8.0993	0.9900	0.0209	0.0000	0.0000	18.96



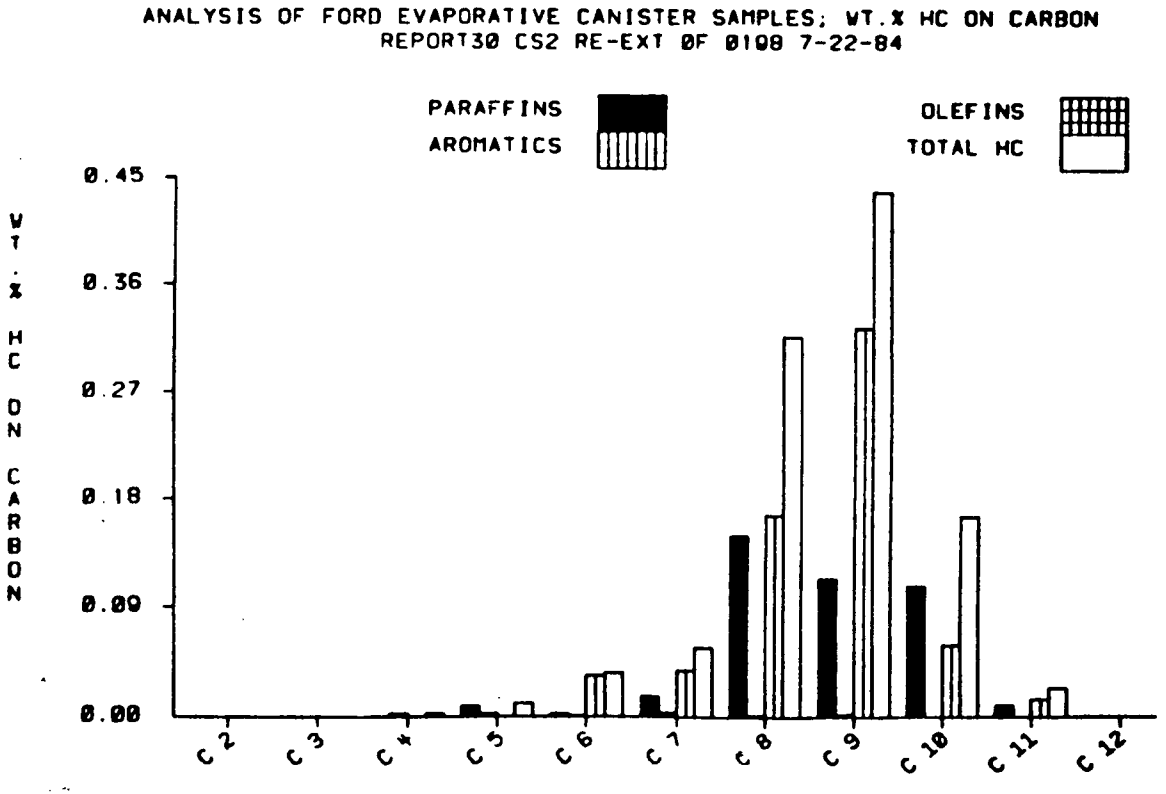
DATA FILE : REPORT29 CS2 EXT OF 0198 7-23-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.2055	0.3222	0.3113	0.2466	0.0728	0.0150	0.0000	0.0000	1.1734
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0000	0.7767	1.2339	5.0812	0.4741	0.2221	0.0430	0.0000	7.8360
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.2192	0.2290	0.2366	0.0294	0.0000	0.0000	0.0000	0.7142
OLEFINS	0.0000	0.0000	0.0008	0.0347	0.1539	0.1158	0.0303	0.0576	0.0000	0.0000	0.0000	0.3983
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2706	2.4515	1.1266	0.8624	0.1721	0.0096	0.0000	4.8927
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.2968
TOTALS	0.0000	0.0000	0.0008	0.2402	1.7477	4.3465	6.7212	1.4963	0.4092	0.0526	0.0000	15.31



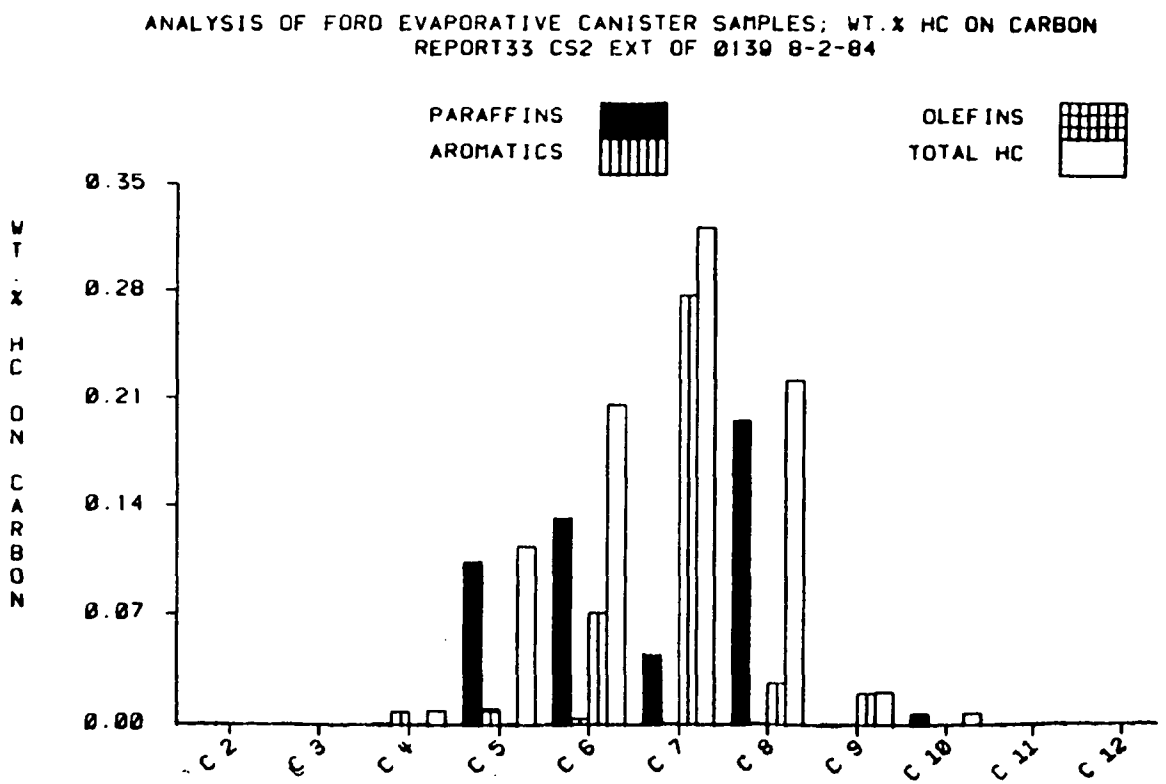
DATA FILE : REPORT30 CS2 RE-EXT OF 0198 7-22-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0082	0.0006	0.0075	0.0188	0.0326	0.0024	0.0000	0.0000	0.0700
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0000	0.0011	0.0073	0.1257	0.0746	0.1046	0.0093	0.0000	0.3227
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011	0.0041	0.0053	0.0000	0.0000	0.0000	0.0105
OLEFINS	0.0000	0.0000	0.0023	0.0023	0.0003	0.0030	0.0012	0.0019	0.0000	0.0000	0.0000	0.0110
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0334	0.0373	0.1661	0.3232	0.0586	0.0142	0.0000	0.6328
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.0365
TOTALS	0.0000	0.0000	0.0023	0.0105	0.0355	0.0562	0.3158	0.4376	0.1656	0.0234	0.0000	1.08



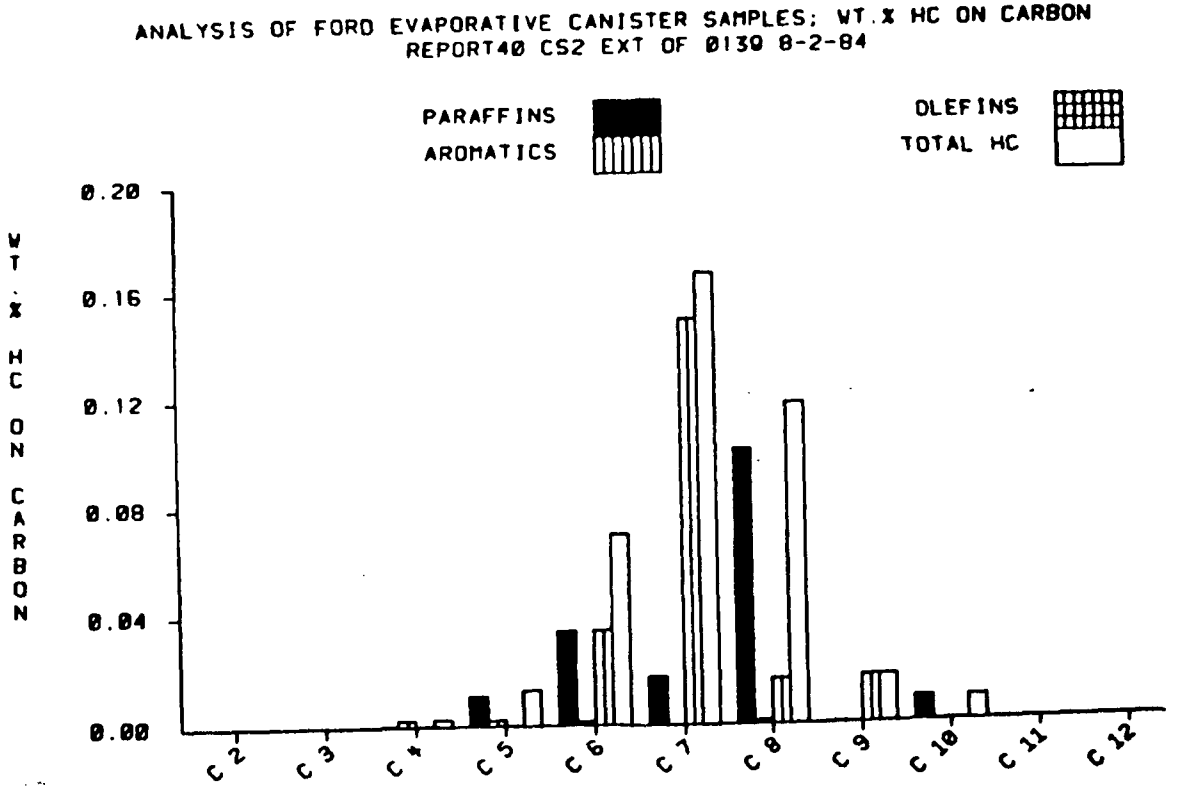
DATA FILE : REPORT33 CS2 EXT OF 0139 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1029	0.0306	0.0021	0.0000	0.0008	0.0000	0.0000	0.0000	0.1364
BRANCHED PARAFFINS	0.0000	0.0000	0.0005	0.0007	0.0890	0.0405	0.1936	0.0000	0.0070	0.0000	0.0000	0.3313
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0120	0.0017	0.0018	0.0000	0.0000	0.0000	0.0000	0.0155
OLEFINS	0.0000	0.0000	0.0082	0.0099	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0212
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0707	0.2767	0.0261	0.0200	0.0000	0.0000	0.0000	0.3935
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0000
TOTALS	0.0000	0.0000	0.0087	0.1134	0.2054	0.3210	0.2215	0.0208	0.0070	0.0000	0.0000	0.90



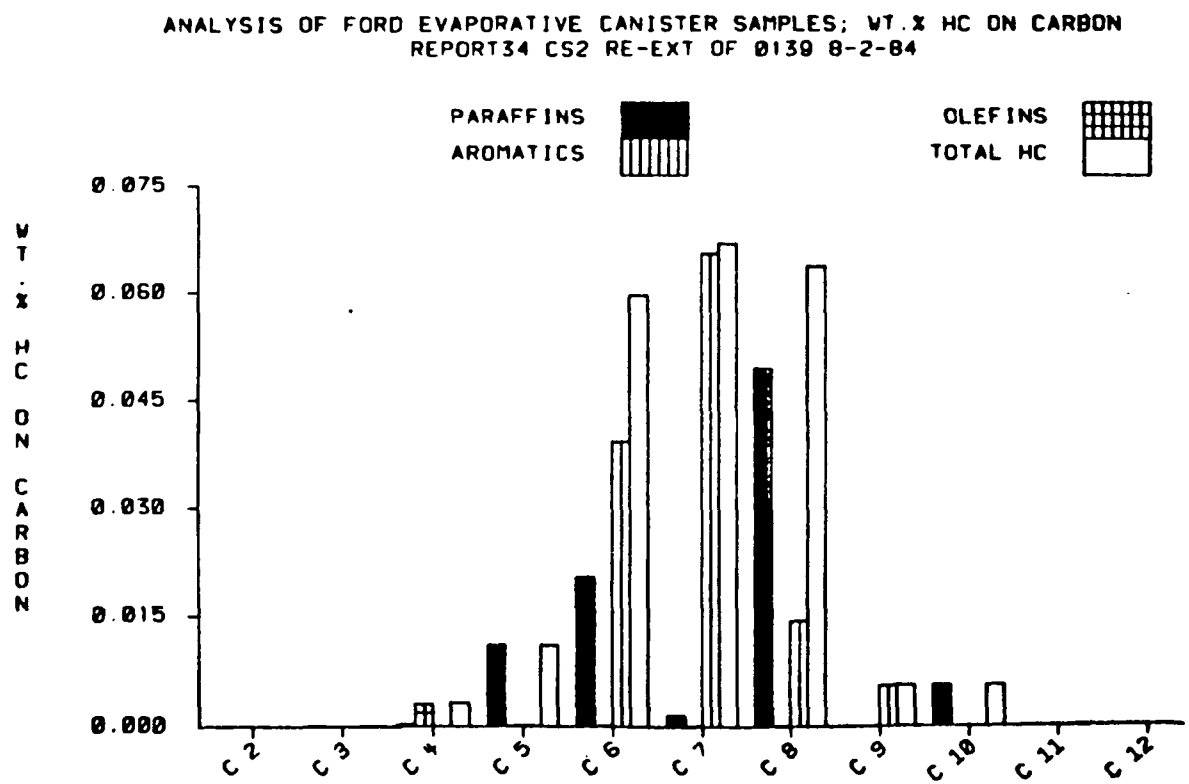
DATA FILE : REPORT40 CS2 EXT OF 0139 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0107	0.0155	0.0009	0.0021	0.0000	0.0000	0.0000	0.0000	0.0292
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0141	0.0162	0.0960	0.0000	0.0087	0.0000	0.0000	0.1353
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0043	0.0000	0.0020	0.0000	0.0000	0.0000	0.0000	0.0063
OLEFINS	0.0000	0.0000	0.0022	0.0020	0.0011	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000	0.0065
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0343	0.1486	0.0162	0.0171	0.0000	0.0000	0.0000	0.2162
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0021
TOTALS	0.0000	0.0000	0.0024	0.0127	0.0693	0.1657	0.1175	0.0171	0.0087	0.0000	0.0000	0.40



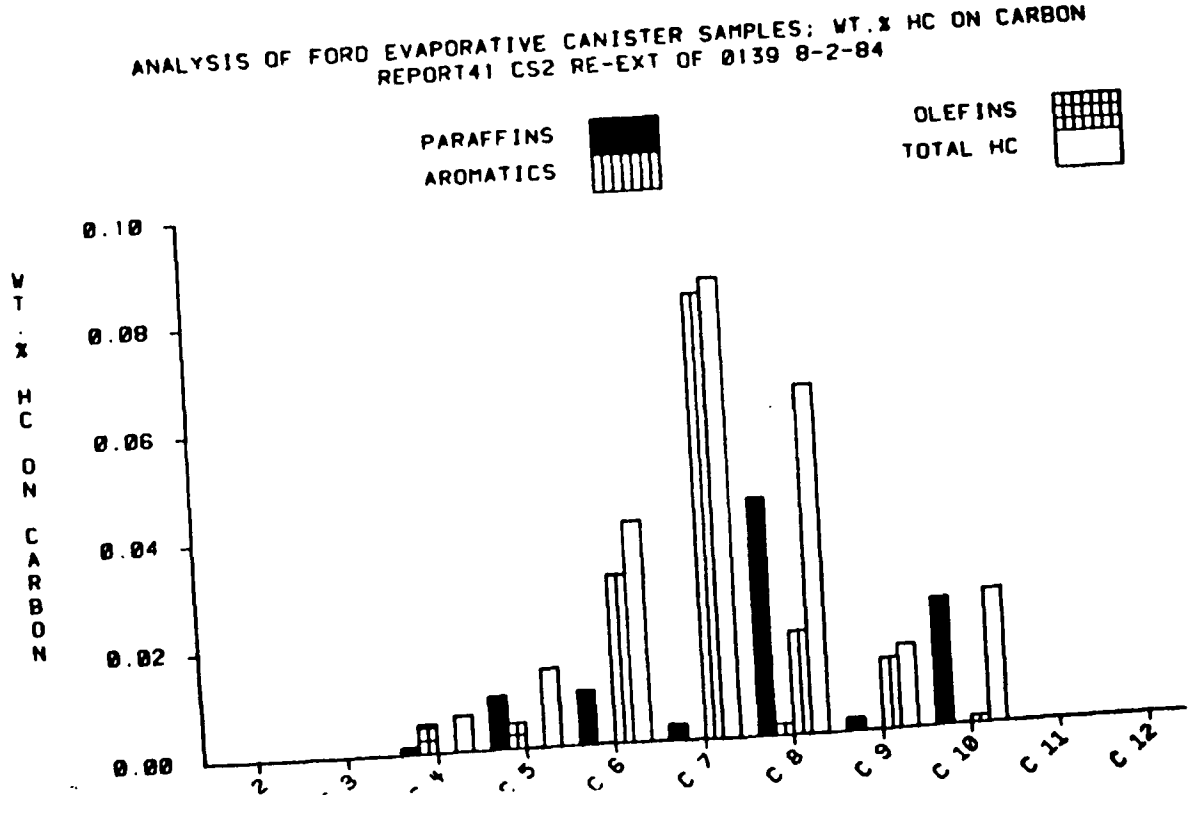
DATA FILE : REPORT34 CS2 RE-EXT OF 0139 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0088	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0242
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0022	0.0037	0.0014	0.0492	0.0000	0.0055	0.0000	0.0000	0.0622
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011
OLEFINS	0.0000	0.0000	0.0030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0030
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0391	0.0651	0.0142	0.0054	0.0000	0.0000	0.0000	0.1239
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.0019
TOTALS	0.0000	0.0000	0.0032	0.0110	0.0594	0.0665	0.0634	0.0054	0.0055	0.0000	0.0000	0.22



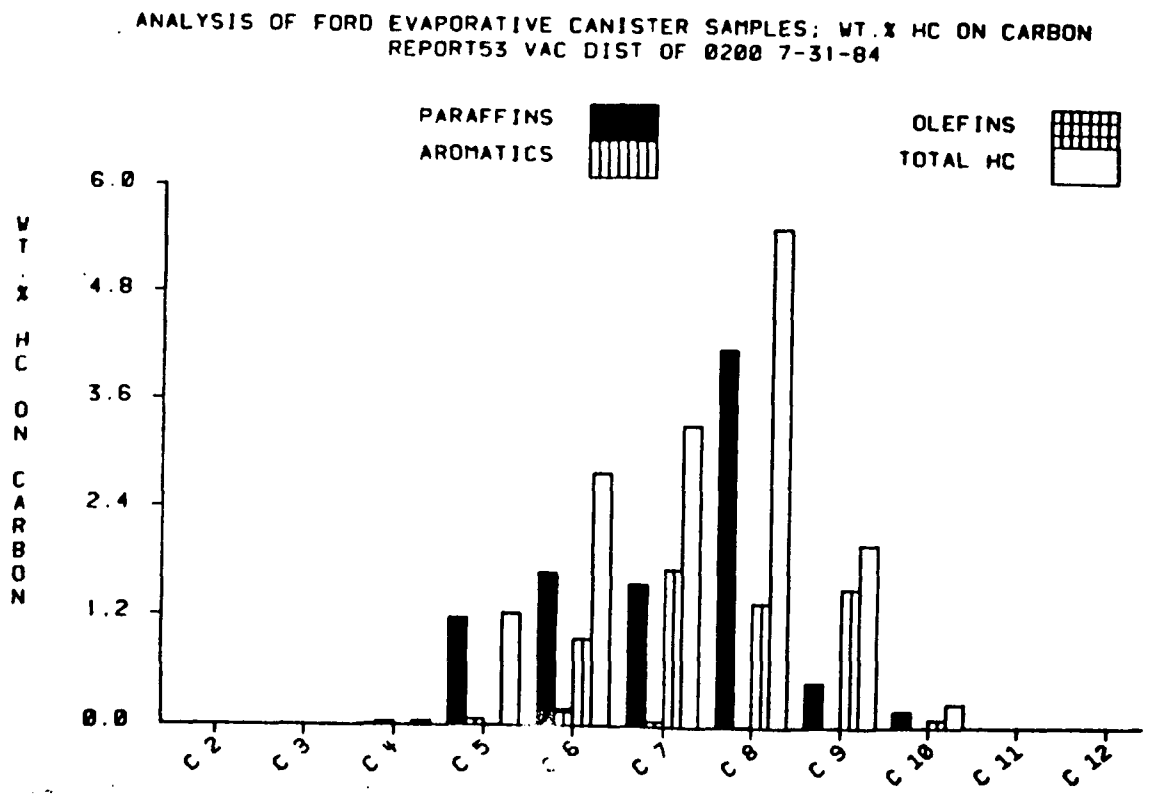
DATA FILE : REPORT41 CS2 RE-EXT OF 0139 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0096	0.0044	0.0000	0.0014	0.0022	0.0000	0.0000	0.0000	0.0176
BRANCHED PARAFFINS	0.0000	0.0000	0.0012	0.0000	0.0047	0.0027	0.0407	0.0000	0.0232	0.0000	0.0000	0.0725
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0007	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000	0.0018
OLEFINS	0.0000	0.0000	0.0053	0.0046	0.0000	0.0000	0.0020	0.0000	0.0000	0.0000	0.0000	0.0119
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0306	0.0818	0.0187	0.0129	0.0013	0.0000	0.0000	0.1452
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0142
TOTALS	0.0000	0.0000	0.0065	0.0142	0.0403	0.0845	0.0639	0.0151	0.0245	0.0000	0.0000	0.26



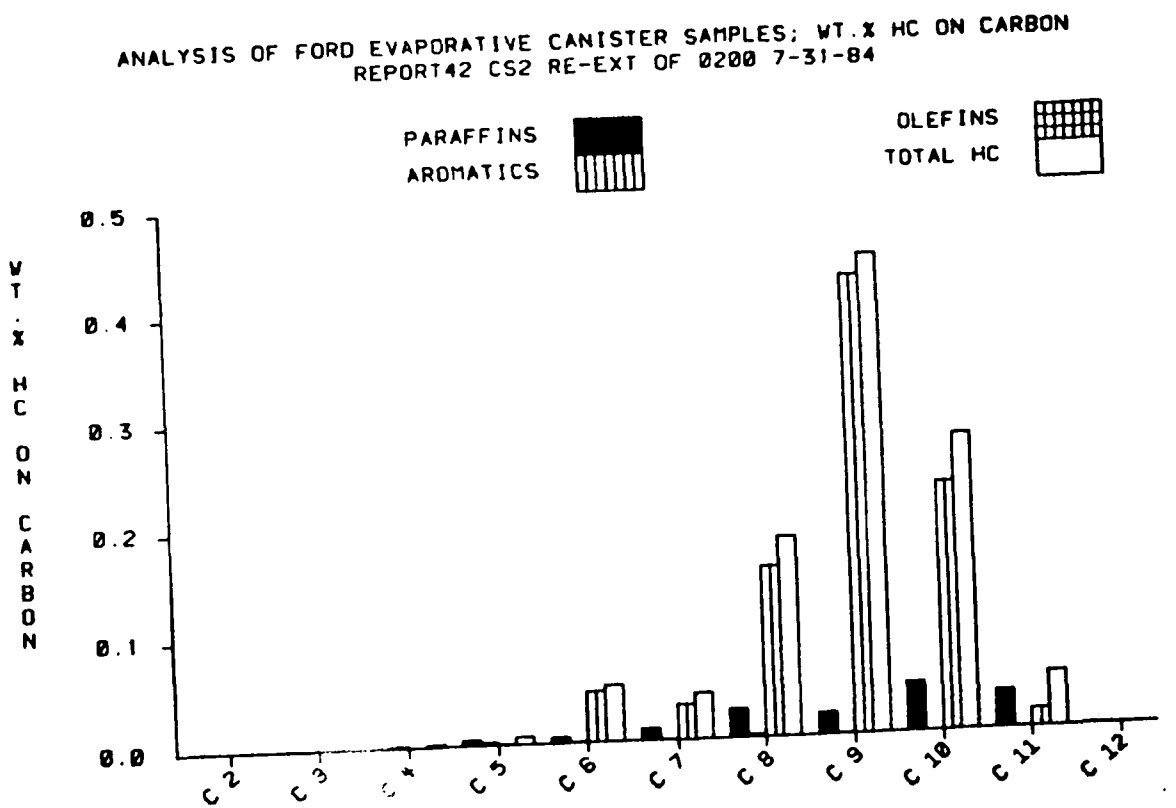
DATA FILE : REPORT53 VAC DIST OF 0200 7-31-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.4135	0.3923	0.2454	0.2120	0.0896	0.0186	0.0000	0.0000	1.3714
BRANCHED PARAFFINS	0.0000	0.0000	0.0063	0.7531	1.0599	1.1501	3.8694	0.3976	0.1603	0.0000	0.0000	7.3967
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.2197	0.1577	0.0847	0.0000	0.0000	0.0000	0.0000	0.4621
OLEFINS	0.0000	0.0000	0.0339	0.0624	0.1736	0.0513	0.0078	0.0051	0.0000	0.0000	0.0000	0.3346
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.9439	1.7237	1.3521	1.5203	0.0852	0.0000	0.0000	5.6251
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0361
TOTALS	0.0000	0.0000	0.0403	1.2291	2.7893	3.3236	5.5260	2.0126	0.2641	0.0000	0.0000	15.23



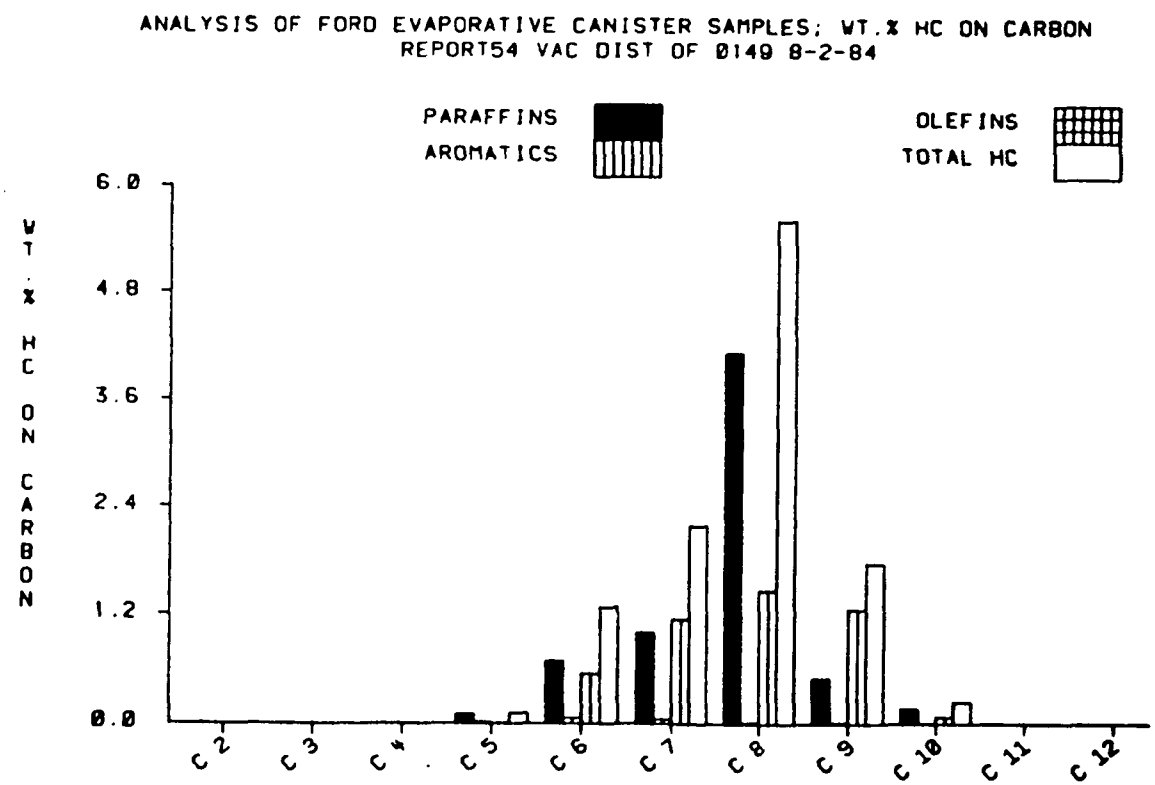
DATA FILE : REPORT42 CS2 RE-EXT OF 0200 7-31-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0046	0.0023	0.0039	0.0079	0.0081	0.0029	0.0076	0.0000	0.0372
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.0026	0.0055	0.0170	0.0112	0.0410	0.0262	0.0000	0.1036
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0005	0.0000	0.0000	0.0000	0.0000	0.0008
OLEFINS	0.0000	0.0000	0.0017	0.0018	0.0000	0.0000	0.0019	0.0000	0.0000	0.0000	0.0000	0.0054
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0454	0.0313	0.1546	0.4225	0.2281	0.0158	0.0000	0.8978
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0253
TOTALS	0.0000	0.0000	0.0019	0.0064	0.0503	0.0411	0.1818	0.4419	0.2720	0.0496	0.0000	1.07



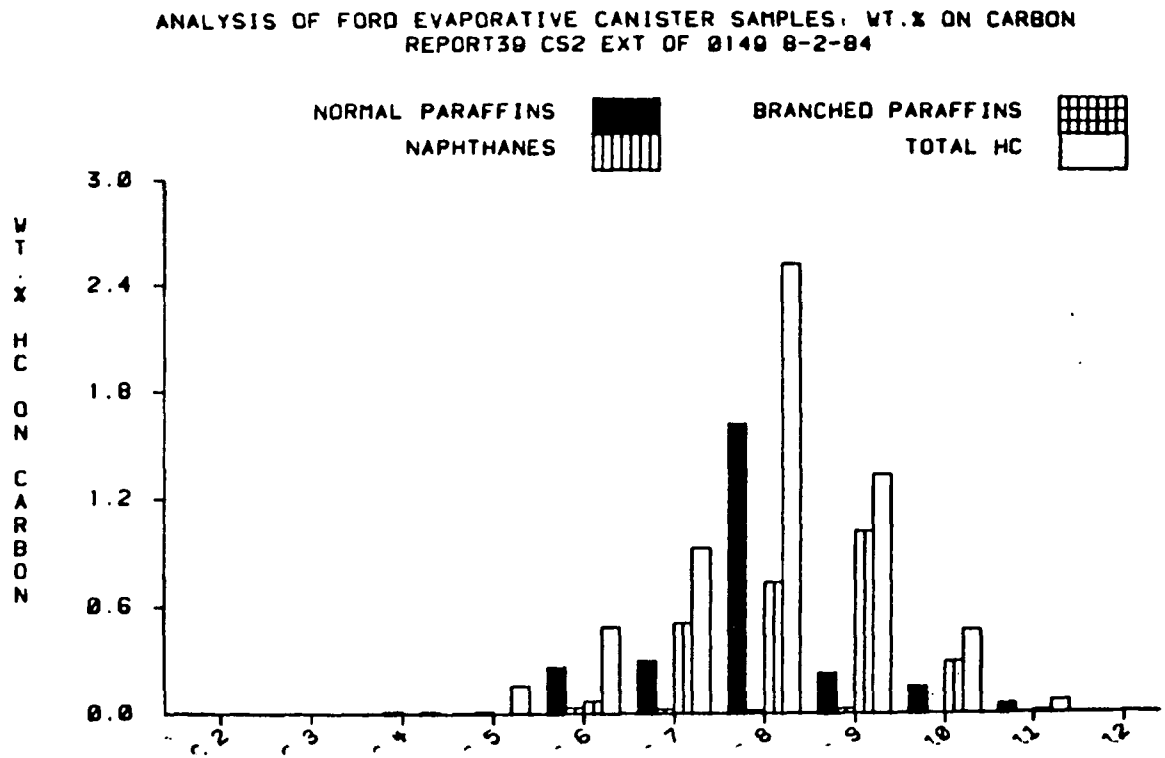
DATA FILE : REPORT54 VAC DIST OF 0149 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0433	0.1729	0.2037	0.2490	0.0837	0.0192	0.0000	0.0000	0.7717
BRANCHED PARAFFINS	0.0000	0.0000	0.0000	0.0560	0.4209	0.7250	3.7453	0.4109	0.1466	0.0000	0.0000	5.5046
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0828	0.0654	0.1211	0.0000	0.0000	0.0000	0.0000	0.2692
OLEFINS	0.0000	0.0000	0.0000	0.0093	0.0580	0.0429	0.0147	0.0116	0.0000	0.0000	0.0000	0.1365
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.5410	1.1448	1.4647	1.2615	0.0691	0.0000	0.0000	4.4810
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0268
TOTALS	0.0000	0.0000	0.0000	0.1086	1.2755	2.1819	5.5946	1.7676	0.2348	0.0000	0.0000	11.19



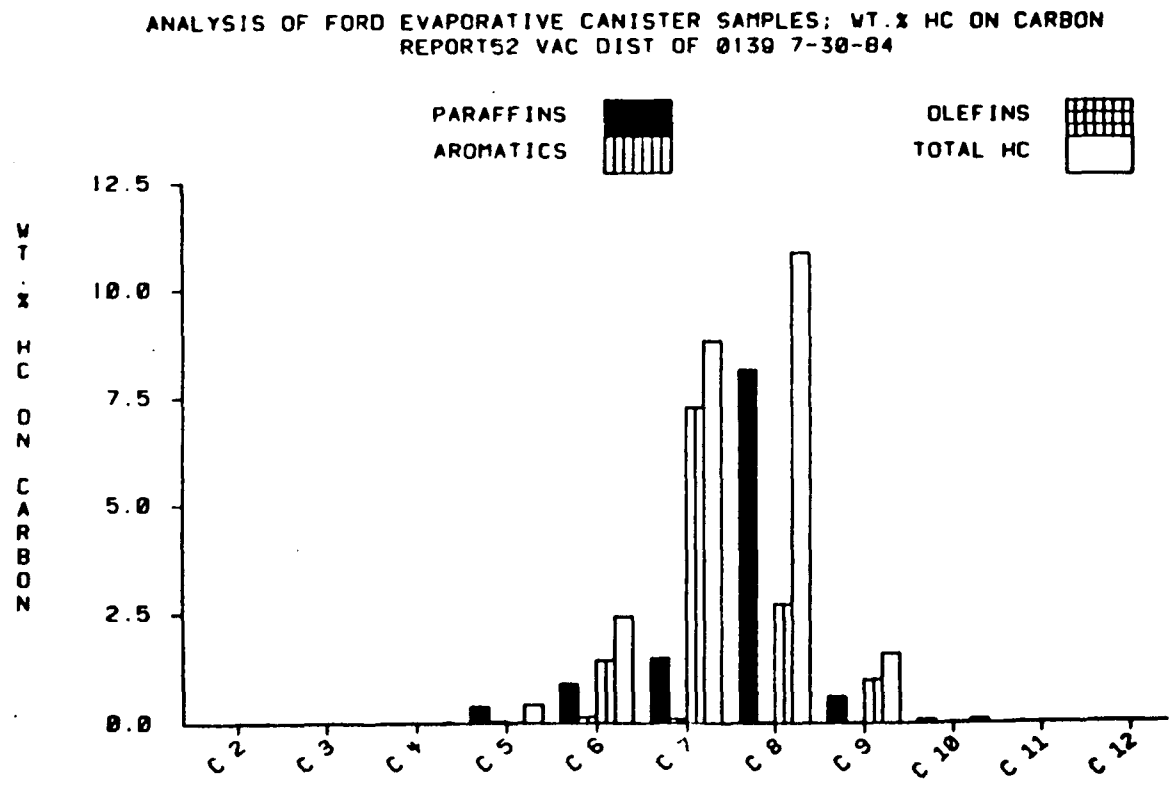
DATA FILE : REPORT39 CS2 EXT OF 0149 8-2-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1456	0.0850	0.0733	0.0991	0.0520	0.0243	0.0041	0.0000	0.4834
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.2624	0.2951	1.6132	0.2275	0.1508	0.0538	0.0000	2.6029
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0348	0.0285	0.0563	0.0134	0.0000	0.0000	0.0000	0.1329
OLEFINS	0.0000	0.0000	0.0090	0.0092	0.0305	0.0229	0.0148	0.0247	0.0000	0.0000	0.0000	0.1111
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0673	0.5000	0.7285	1.0118	0.2896	0.0125	0.0000	2.6097
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.1303
TOTALS	0.0000	0.0000	0.0092	0.1548	0.4300	0.9198	2.5119	1.3294	0.4647	0.0704	0.0000	6.07



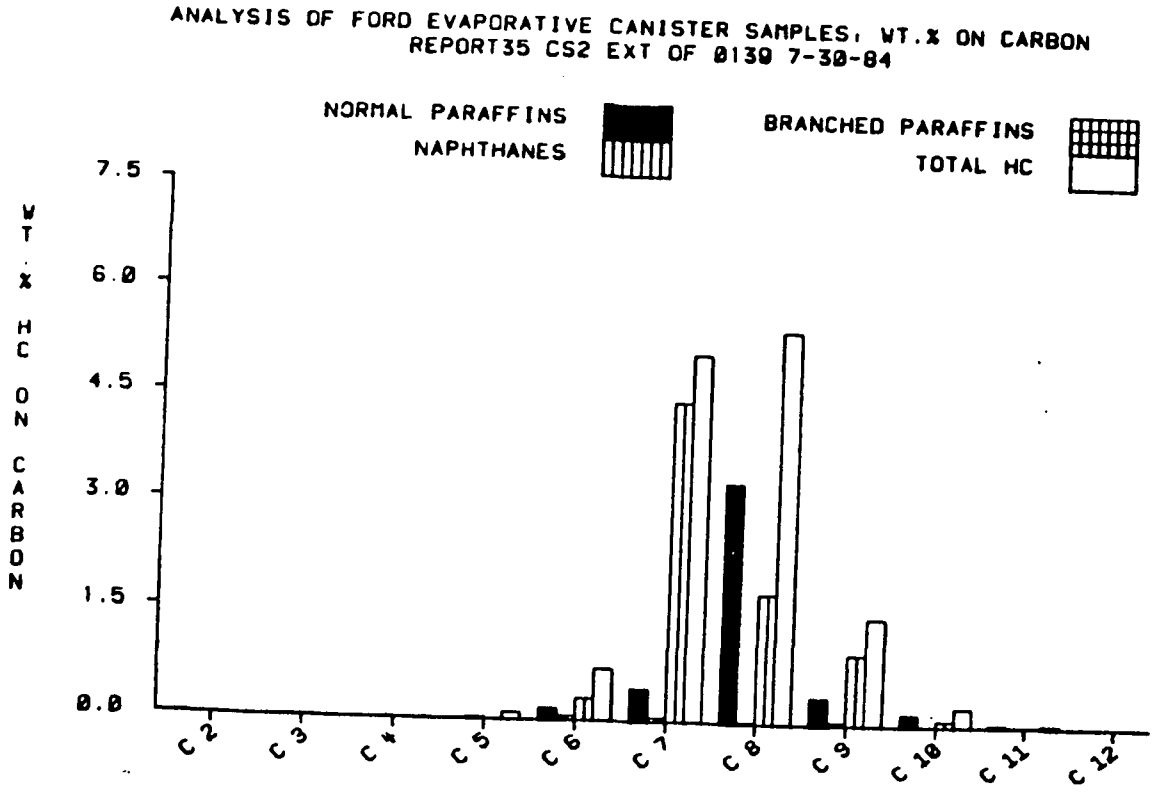
DATA FILE : REPORT52 VAC DIST OF 0139 7-30-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.1305	0.2761	0.2541	0.3444	0.0833	0.0088	0.0000	0.0000	1.0972
BRANCHED PARAFFINS	0.0000	0.0000	0.0080	0.2411	0.4830	1.0495	7.5947	0.5139	0.0614	0.0000	0.0000	9.9517
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.1226	0.1482	0.1753	0.0000	0.0000	0.0000	0.0000	0.4461
OLEFINS	0.0000	0.0000	0.0000	0.0327	0.1206	0.0823	0.0164	0.0000	0.0000	0.0000	0.0000	0.2519
AROMATICS	0.0000	0.0000	0.0000	0.0000	1.4154	7.2547	2.7013	0.9779	0.0000	0.0000	0.0000	12.3494
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	---	---	---	---	---	---	---	---	---	---	---	0.0368
TOTALS	0.0000	0.0000	0.0080	0.4043	2.4177	8.7887	10.8322	1.5751	0.0703	0.0000	0.0000	24.13



DATA FILE : REPORT35 CS2 EXT OF 0139 7-30-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0703	0.1523	0.1095	0.1741	0.0702	0.0122	0.0000	0.0000	0.5884
BRANCHED PARAFFINS	0.0000	0.0000	0.0002	0.0000	0.1606	0.4518	3.3214	0.3800	0.1666	0.0260	0.0000	4.5067
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0527	0.0701	0.1573	0.0182	0.0000	0.0000	0.0000	0.2982
OLEFINS	0.0000	0.0000	0.0061	0.0203	0.0496	0.0424	0.0163	0.0397	0.0000	0.0000	0.0000	0.1743
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.2984	4.4417	1.7922	0.9770	0.0801	0.0066	0.0000	7.5960
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.1120
TOTALS	0.0000	0.0000	0.0063	0.0906	0.7137	5.1155	5.4613	1.4850	0.2588	0.0325	0.0000	13.28



DATA FILE : REPORT36 CS2 RE-EXT OF 0139 7-30-84
ANALYSIS OF FORD EVAPORATIVE CANISTER SAMPLES: WT.% HC ON CARBON
****

CLASS	WEIGHT % IN SAMPLE BY CARBON NUMBER											
	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12	TOTALS
NORMAL PARAFFINS	0.0000	0.0000	0.0000	0.0059	0.0503	0.0000	0.0053	0.0084	0.0000	0.0000	0.0000	0.0698
BRANCHED PARAFFINS	0.0000	0.0000	0.0003	0.0000	0.0011	0.0000	0.0231	0.0253	0.0411	0.0032	0.0000	0.0941
NAPHTHANES	0.0000	0.0000	0.0000	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0192
OLEFINS	0.0000	0.0000	0.0020	0.0022	0.0000	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	0.0052
AROMATICS	0.0000	0.0000	0.0000	0.0000	0.0363	0.0107	0.0632	0.1155	0.0063	0.0024	0.0000	0.2344
ACETYLENES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HALOGENATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HETEROCYCLIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MISC. COMPOUNDS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UNKNOWNS	----	----	----	----	----	----	----	----	----	----	----	0.0102
TOTALS	0.0000	0.0000	0.0023	0.0081	0.1069	0.0107	0.0925	0.1492	0.0475	0.0055	0.0000	0.43

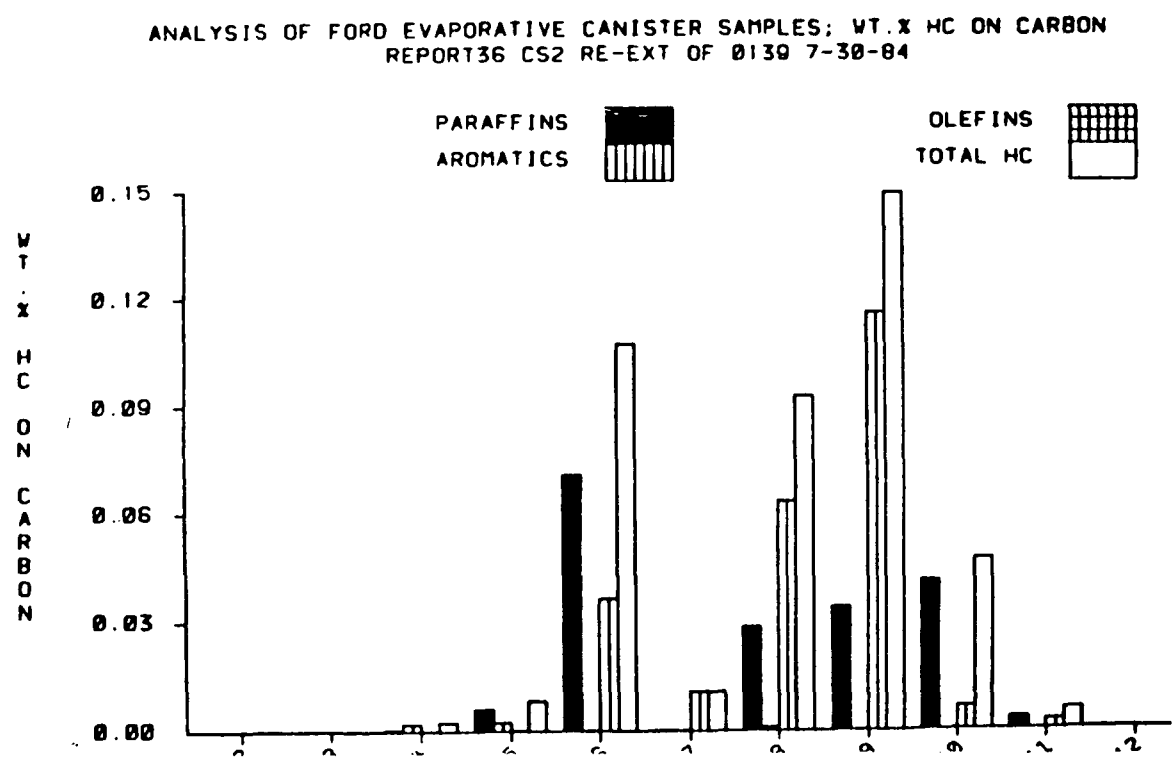


TABLE 4

Percent of Total Weight
As Reported by GC//FID

$$\frac{\text{Carbon \# Wt. \%}}{\text{Total Wt. \%}} \times 100$$

VACUUM DISTILLATION
(2nd Set of Canisters)

Sample No.	Date Removed	Carbon Number 4	5	6	7	8	9	10	11
A152/0599	6/3/85	1.1	8.2	22.3	51.7	13.5	2.0	0.1	
A152/0255	8/16/85	0.4	15.5	13.1	23.7	41.2	5.4	0.2	-
A152/0611	7/24/85	0.1	7.1	13.4	42.3	29.6	5.9	1.0	0.1
A152/0611	6/10/85	-	1.5	9.6	17.0	18.7	35.6	14.1	2.0
A152/0237	10/22/84	1.6	16.5	30.2	20.9	30.6	0.1	-	-
A152/0237	11/5/84	-	1.9	8.6	31.5	52.8	4.7	0.1	-
A1520237	8/22/84	0.3	3.7	14.3	16.3	25.7	26.7	9.9	1.5
A152/0198	8/1/84	-	2.2	31.2	38.4	26.6	0.9	0.1	-
A152/0198	7/23/84	0.1	4.7	21.5	25.2	42.7	5.2	0.1	-
A152/0139	7/30/84	-	1.7	10.0	36.5	44.8	6.5	0.3	-
A152/0149	8/2/84	-	1.0	11.1	19.0	48.7	15.5	2.0	-

Table 5

Percent of Total Weight
As Reported by GC//FID

$$\frac{\text{Carbon \# Wt. \%}}{\text{Total Wt. \%}} \times 100$$

CS_2 EXTRACTION
(2nd Set of Canisters)

Sample No.	Date Removed	Carbon Number							
		4	5	6	7	8	9	10	11
A152/0599	6/3/85	-	1.6	2.6	20.5	40.3	22.1	7.9	1.7
A152/0255	8/16/85	-	2.5	8.5	20.5	53.3	10.4	2.6	0.2
A152/0611	7/24/85	-	1.5	7.4	34.7	31.6	13.2	6.0	0.4
A152/0611	6/10/85	-	0.6	2.2	12.5	15.3	35.8	22.1	7.0
A152/0237	10/22/84	-	1.8	20.5	24.8	41.8	0.6	0.1	0.1
A152/0237	11/5/84	-	1.3	7.8	34.0	47.2	6.5	1.4	0.1
A152/0237	8/22/84	-	1.3	4.5	13.9	23.9	31.3	17.2	5.5
A152/0198	8/1/84	-	7.0	22.9	37.1	28.8	1.3	1.5	0.5
A152/0198	7/23/84	-	1.6	11.4	28.4	43.9	9.8	2.7	0.3
A152/0139	7/30/84	-	0.7	5.4	38.6	41.2	11.2	2.0	0.3
A152/0149	8/2/84	-	2.6	7.9	15.2	41.3	22.0	7.6	1.2

TABLE 6

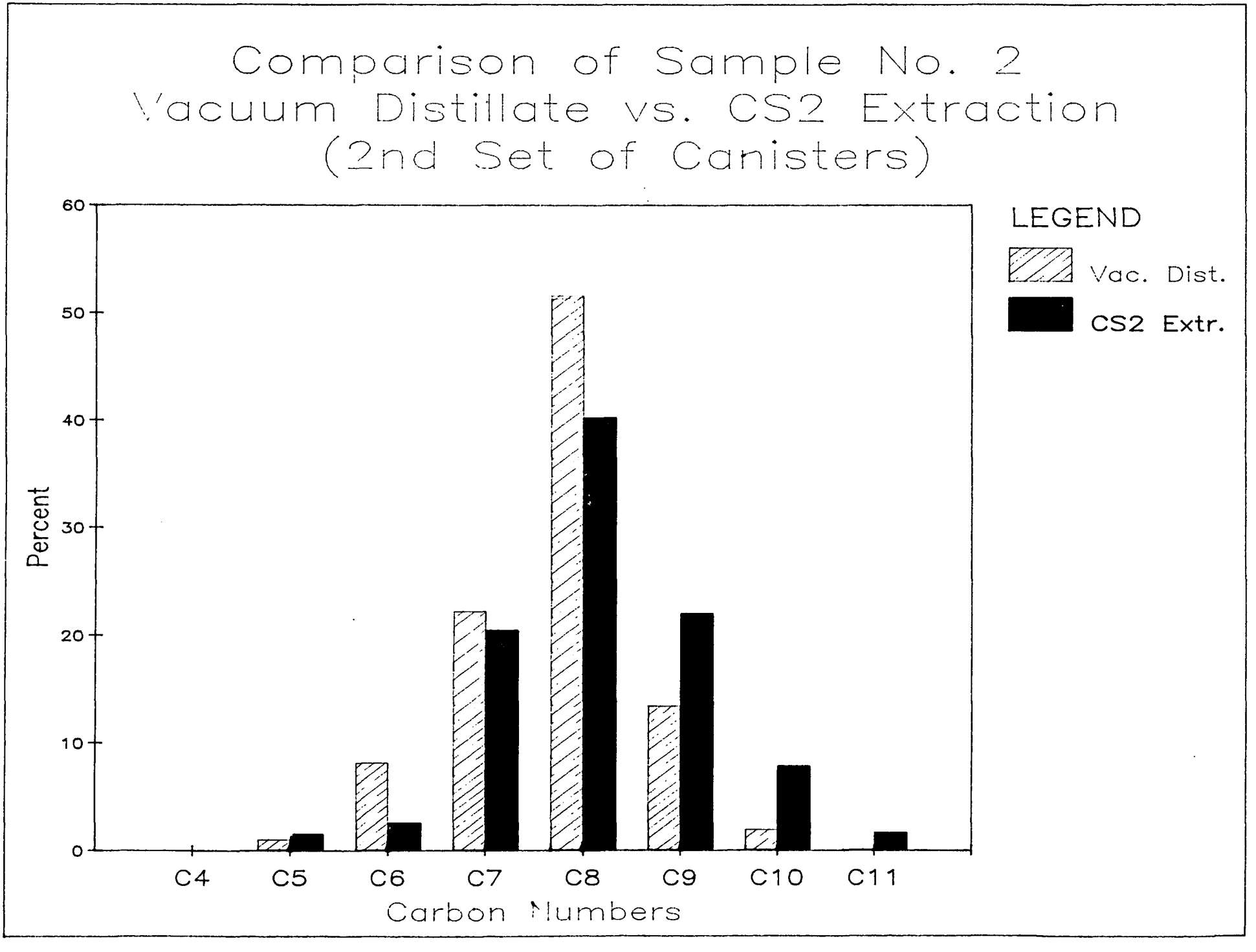
VACUUM DISTILLATION SUMMARY
(2nd Set of Canisters)

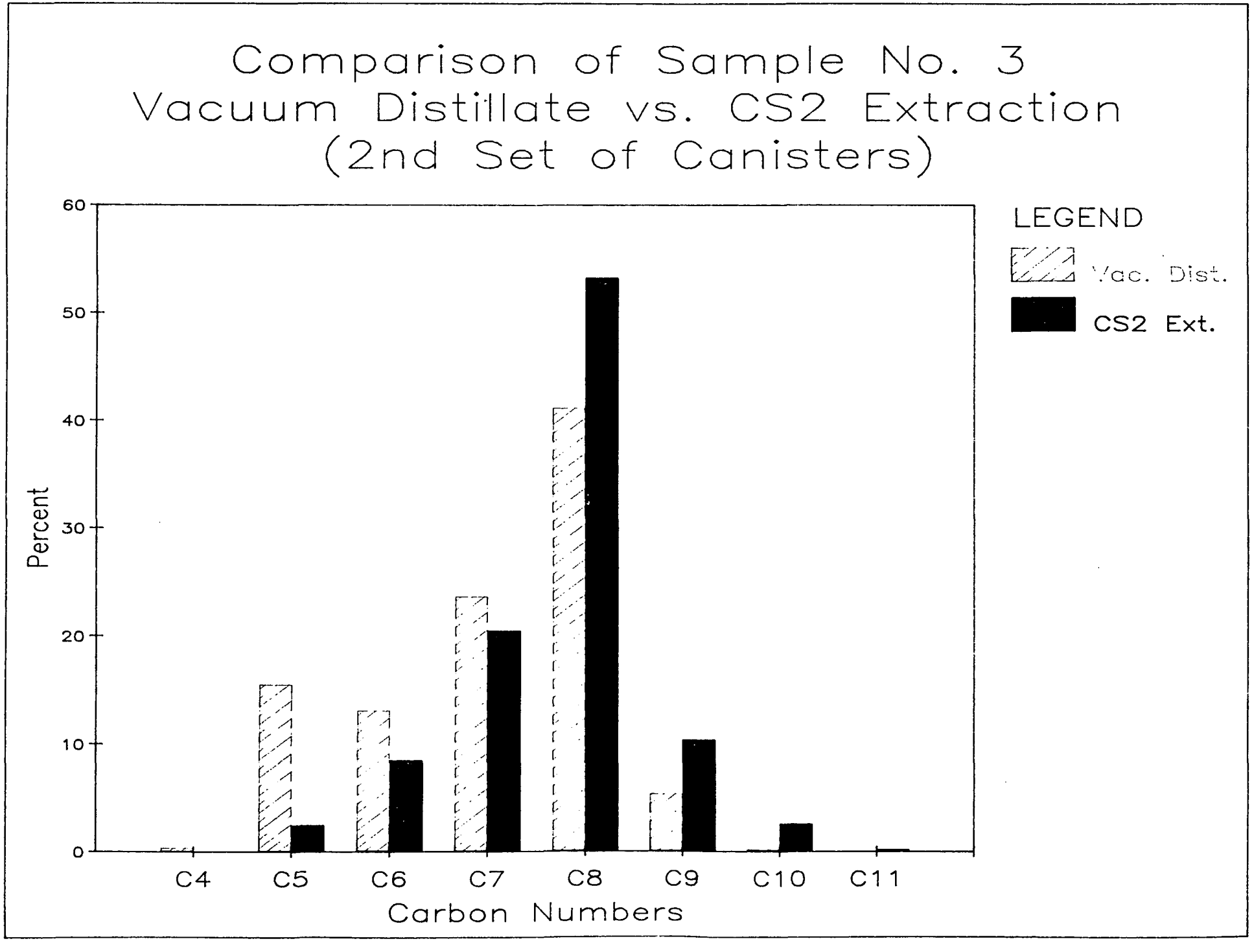
Sample # Date Removed	A152/0255 8/16/84	A152/0255 8/16/84	A152/0611 2/24/85	A152/0611 7/24/85	A152/0611 6/10/85
Total N-Paraffins	1.995	1.430	1.557	0.940	1.750
Total Branch Paraffins	10.426	7.794	7.463	6.613	3.344
Total Naphthanes	0.970	9.389	0.803	0.683	0.268
Total Olefins	0.363	0.281	0.581	0.304	0.095
Total Aromatics	2.927	3.947	8.195	9.484	13.756
Total Acetylenes	0.000	0.000	0.000	0.000	0.000
Total Unknowns	0.079	0.071	0.126	0.066	0.281
Total Wt. % HC as reported by GC/FID	16.759	13.912	18.724	18.091	19.494
Total Merged Peaks	0.191	0.360	0.157	1.132	
Vac. Dist. % Extract	16.800	16.500	18.700	20.500	25.500
% Vac. Dist. Extract Reported by GC/FID	99.753	84.316	100.131	88.248	76.446
Statistics on % of Vac. Dist. Extract Reported by GC/FID					
Average	84.485				
Standard Deviation	9.899				
Relative Std. Dev.	11.717				
Minimum	64.118				
Maximum	100.131				
N	17				

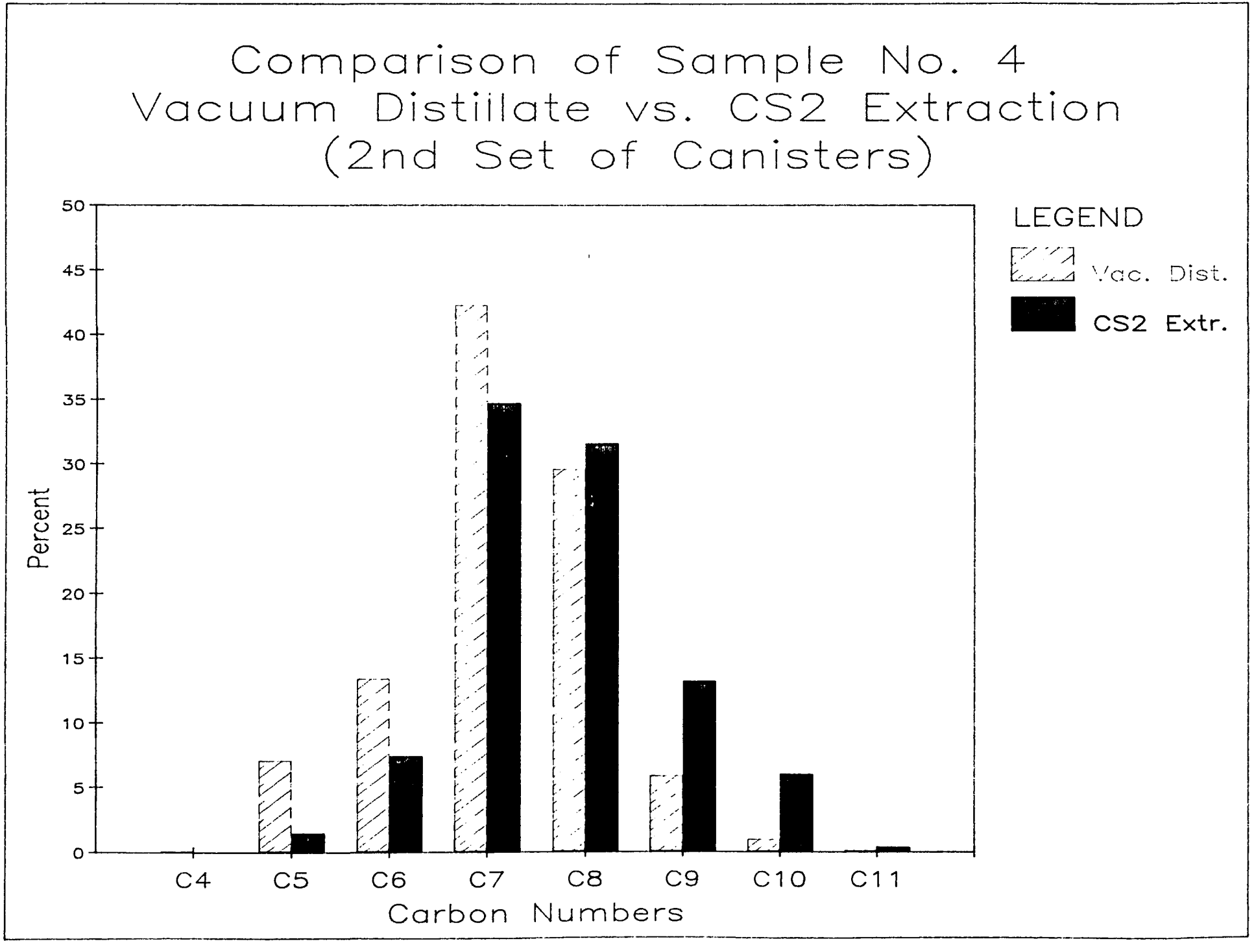
TABLE 7

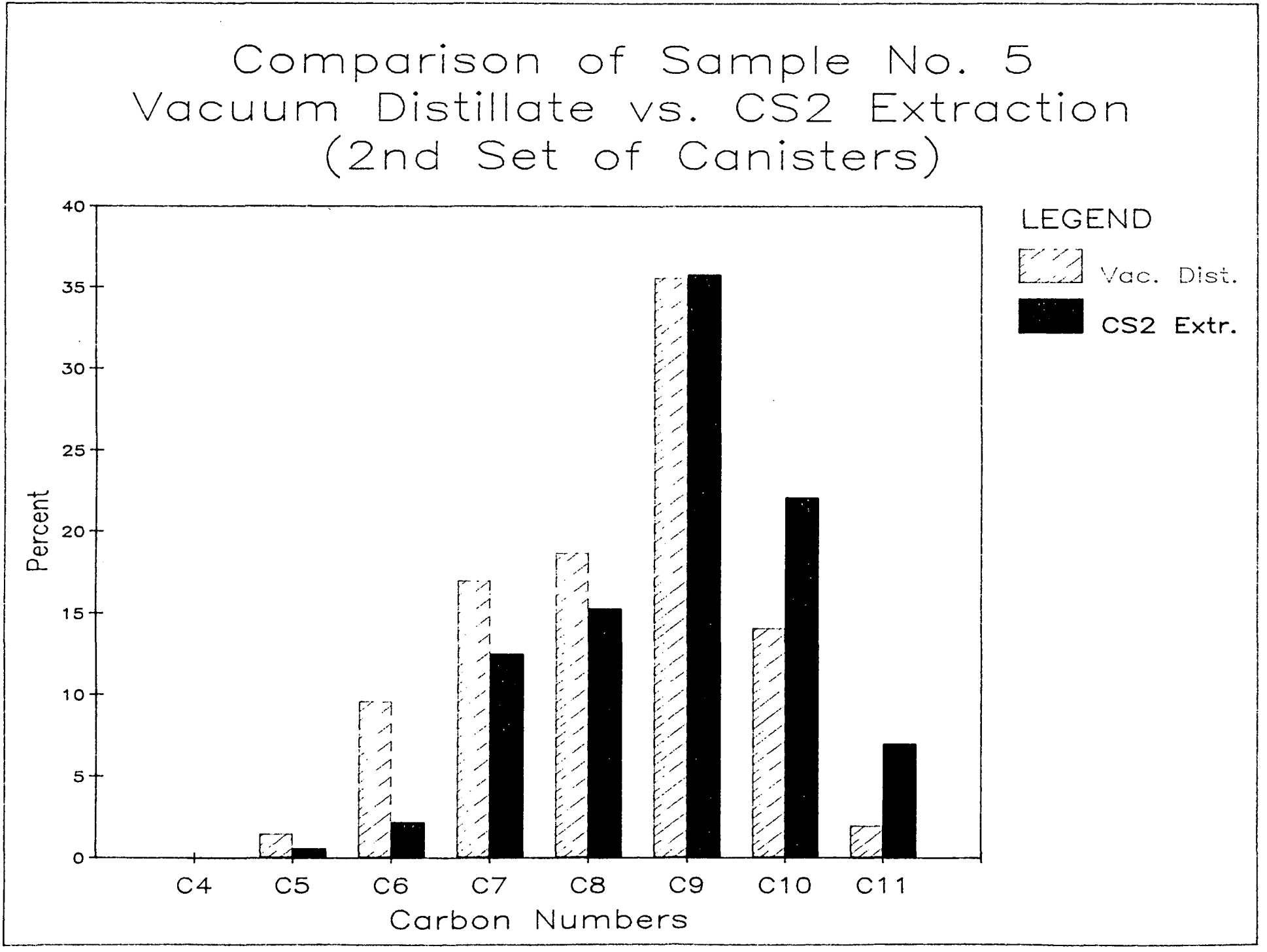
CS_2 EXTRACTION SUMMARY
(2nd Set of Canisters)

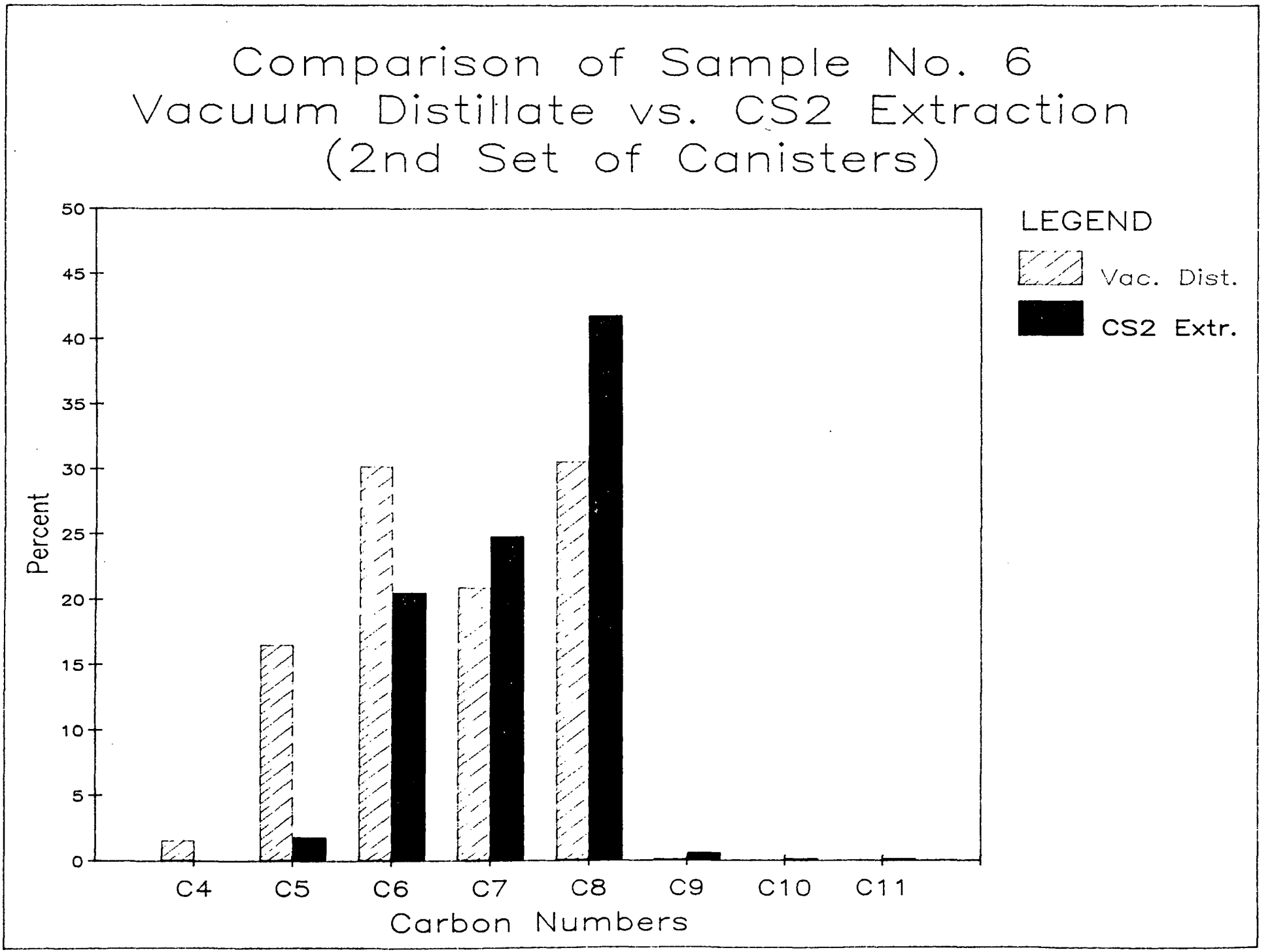
Sample # Date Removed	A152/0599 6/3/85	A152/0599 6/3/85	A152/ 10/22/84	A015/0237 11/5/84	A152/0237 8/22/84
Total N-Paraffins	1.134	0.833	0.769	1.034	0.755
Total Branch Paraffins	6.730	4.819	7.295	7.485	4.162
Total Naphthanes	0.966	0.288	0.828	0.502	0.228
Total Olefins	0.219	0.253	0.466	0.446	0.262
Total Aromatics	5.801	6.212	2.712	4.408	10.415
Total Acetylenes	0.006	0.002	0.000	0.000	0.000
Total Unknowns	0.253	0.316	1.335	0.221	0.433
Total Wt. % HC as reported by GC/FID	15.110	12.714	13.405	14.096	16.256
Total Merged Peaks	0.519	0.487	0.037	0.320	1.047
CS2 Method % Extract	23.190	24.280	20.460	24.640	31.070
% of CS2 Extract Reported by GC/FID	65.157	52.364	65.518	57.208	52.321
Statistics on % of CS_2 Extract Reported by GC/FID		Runs 33, 40, and 23 excluded			
Average	39.322			46.906	
Standard Deviation	22.630			17.900	
Relative Std. Dev.	57.570			38.166	
Minimum	2.059			11.463	
Maximum	69.454			69.454	
N	16			13	

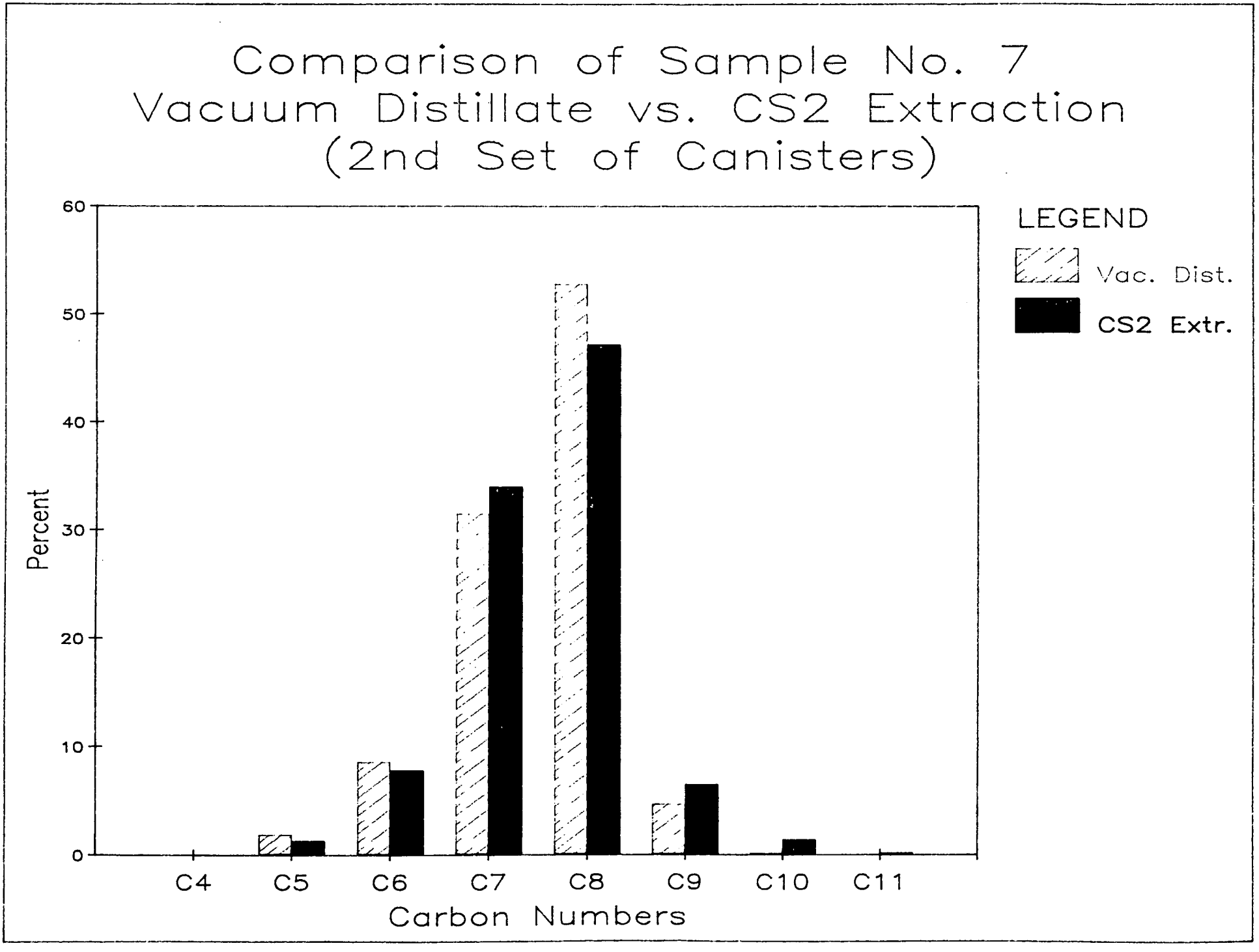

Comparison of Sample No. 2
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
10
20
30
40
50
60
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers

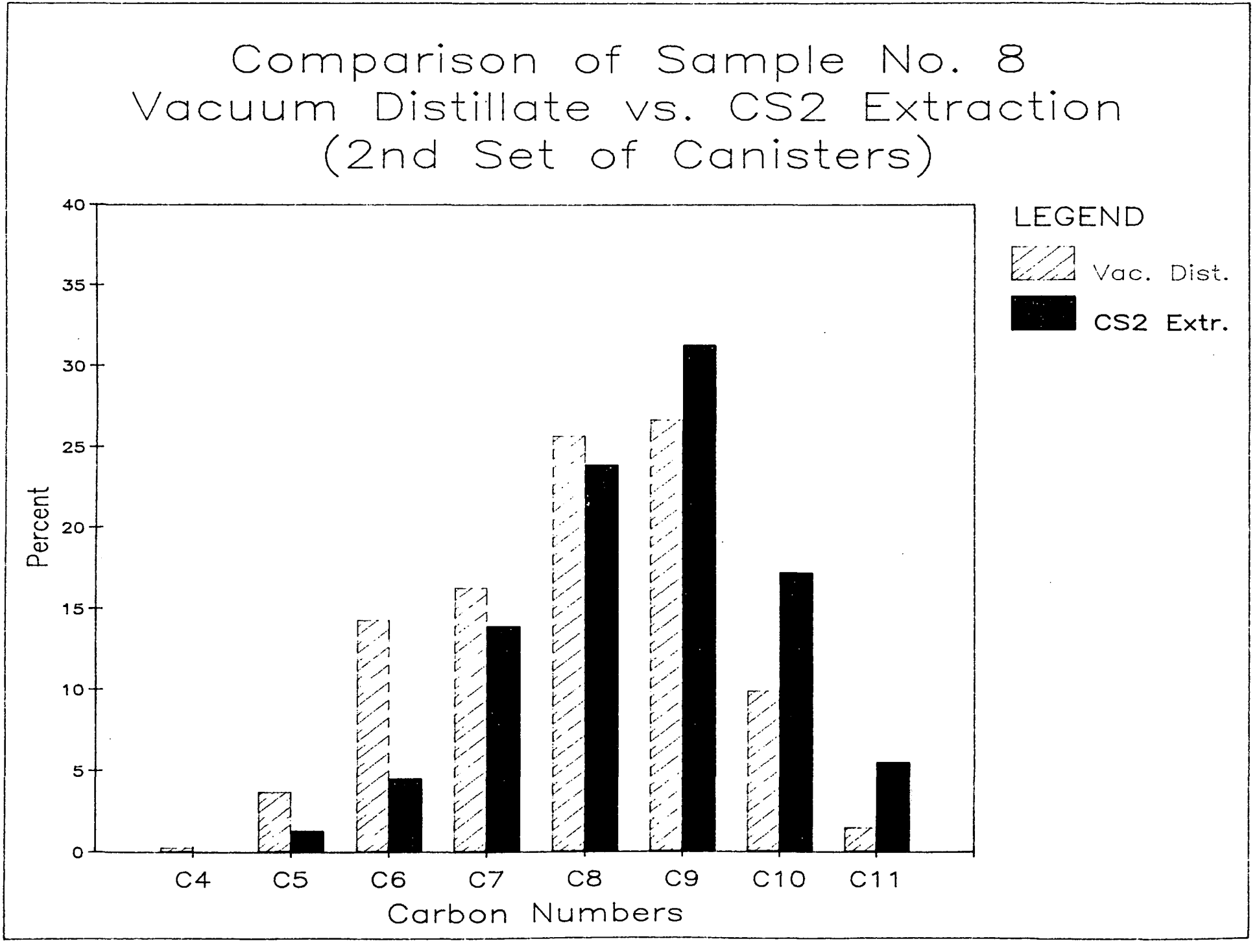

Comparison of Sample No. 3
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Ext.
Percent
0
10
20
30
40
50
60
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers

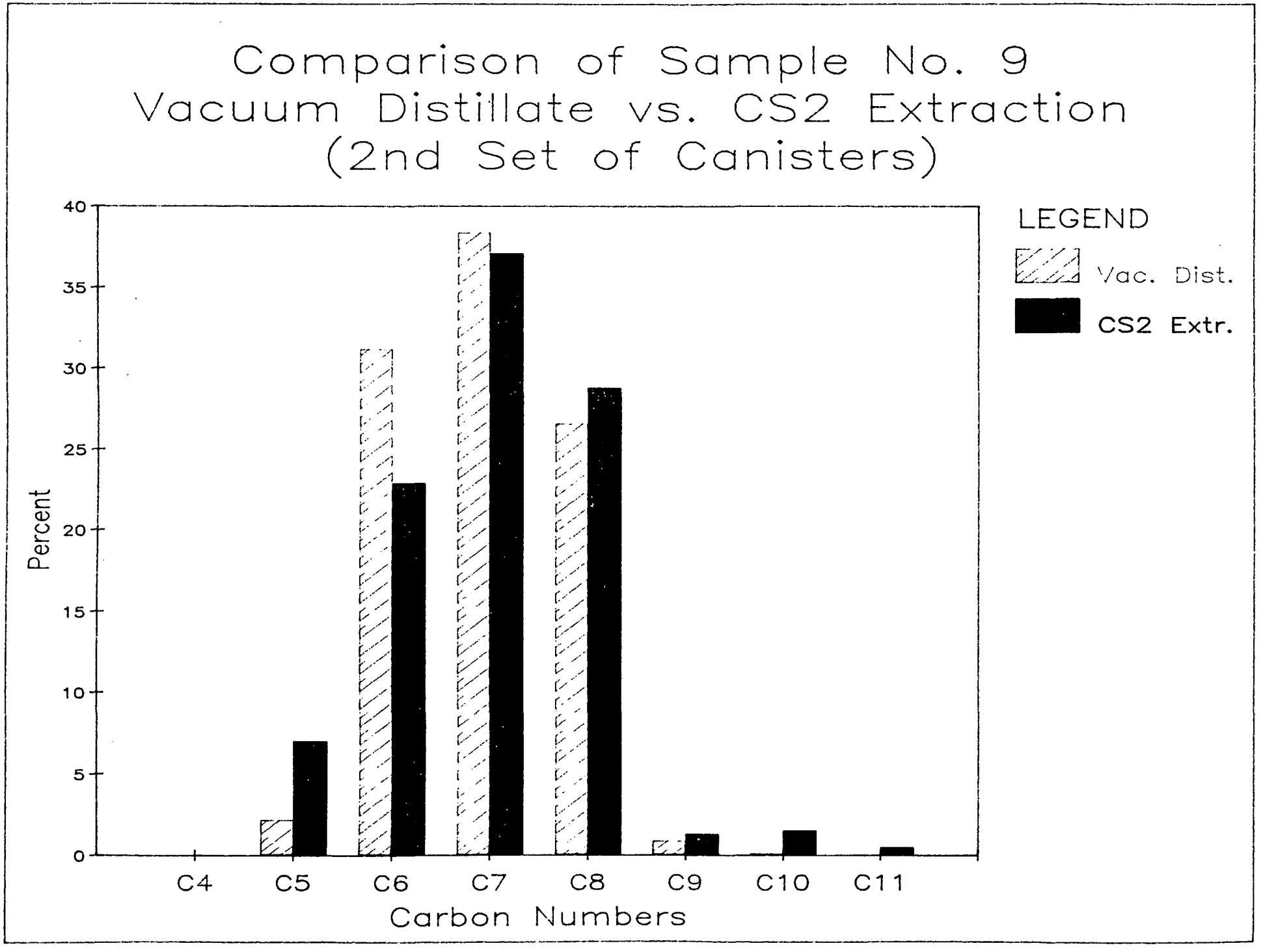

Comparison of Sample No. 4
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
45
50
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers

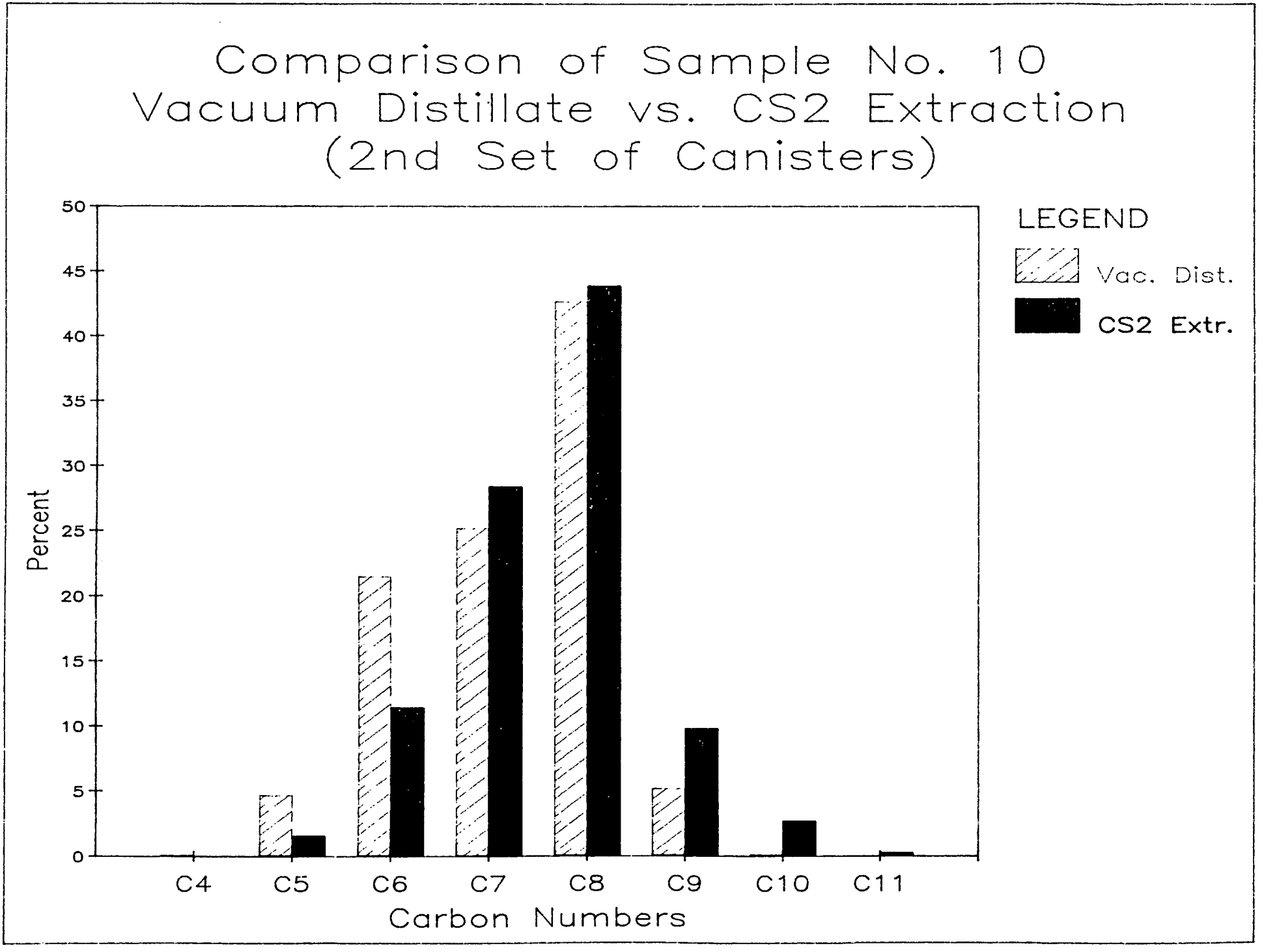

Comparison of Sample No. 5
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers

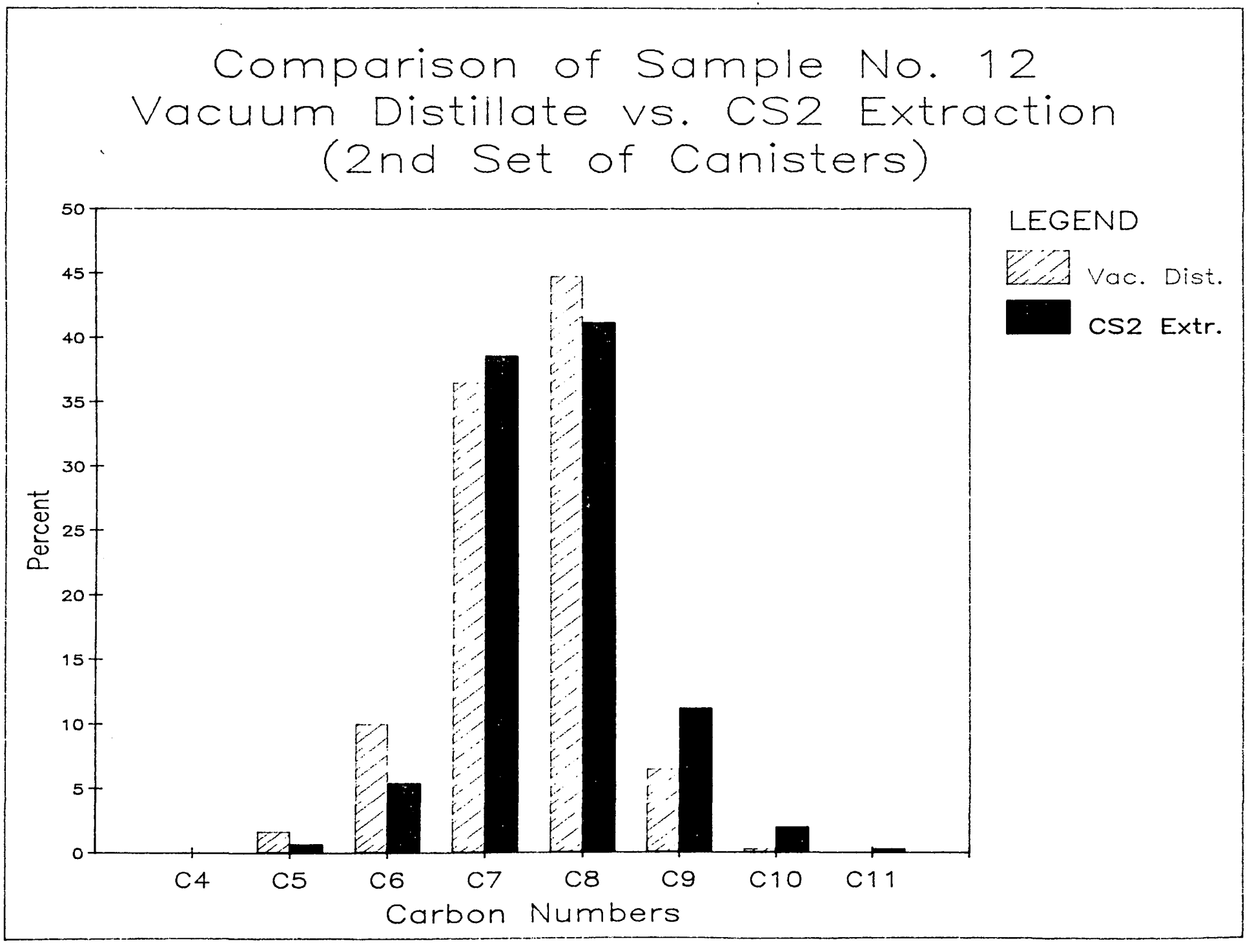

Comparison of Sample No. 6
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
45
50
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers

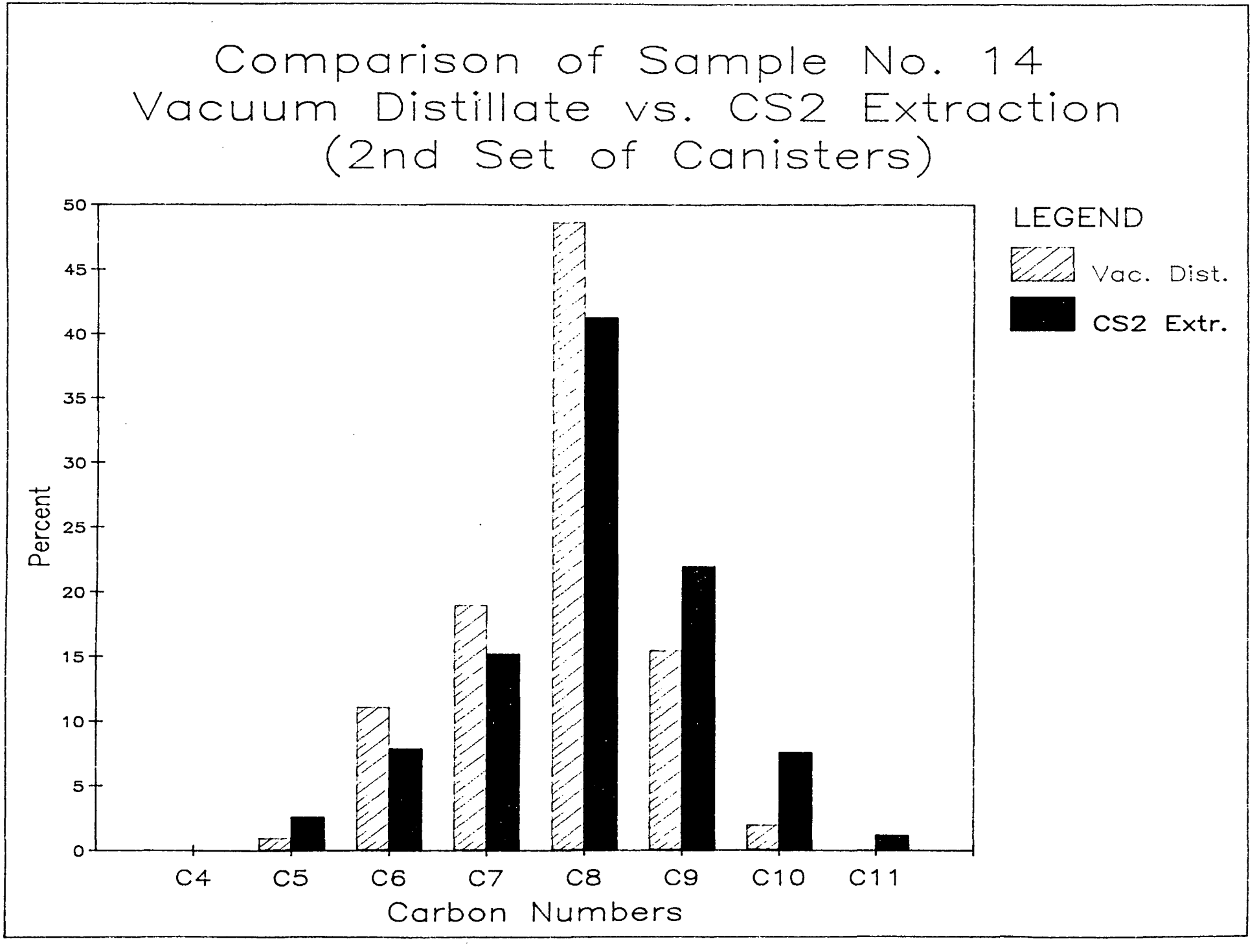

Comparison of Sample No. 7
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
10
20
30
40
50
60
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers


Comparison of Sample No. 8
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers


Comparison of Sample No. 9
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers


Comparison of Sample No. 10
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
45
50
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers


Comparison of Sample No. 12
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
45
50
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers


Comparison of Sample No. 14
Vacuum Distillate vs. CS2 Extraction
(2nd Set of Canisters)
LEGEND
Vac. Dist.
CS2 Extr.
Percent
0
5
10
15
20
25
30
35
40
45
50
C4
C5
C6
C7
C8
C9
C10
C11
Carbon Numbers