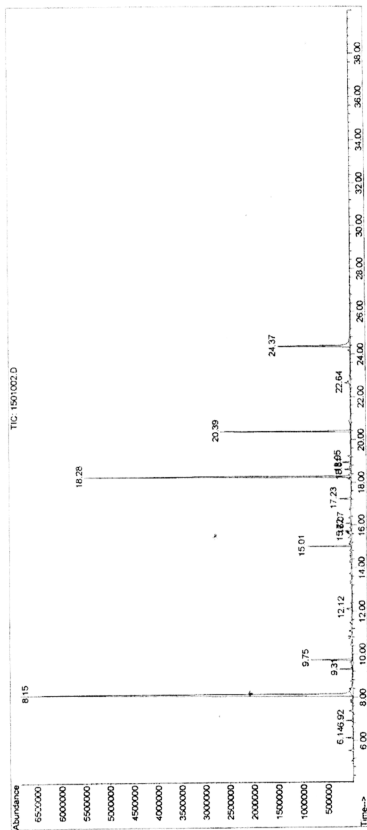
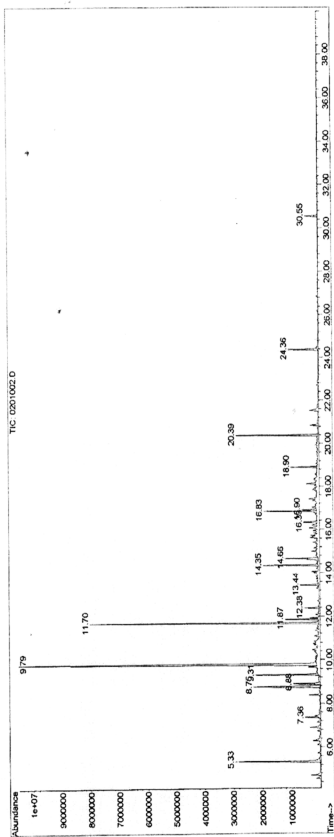


Appendix 1. GC Chromatograms for motor A, B, C and D

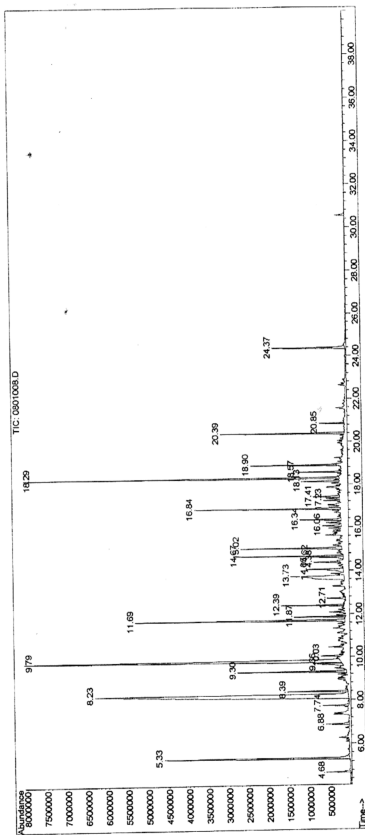
File : C:\HPCHEM\1\DATA\04C309S\1501002.D
Operator : Pua
Acquired : 9 Mar 2004 5:15 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name: Motor Supplier A
Misc Info :
Vial Number: 15



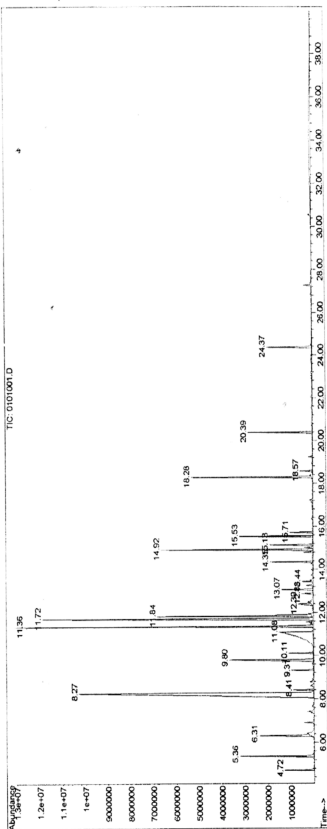
File : C:\HPCHEM\1\DATA\040303S\0201002.D
Operator : Pua
Acquired : 3 Mar 2004 8:28 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name: Motor Supplier B
Misc Info :
Vial Number: 2



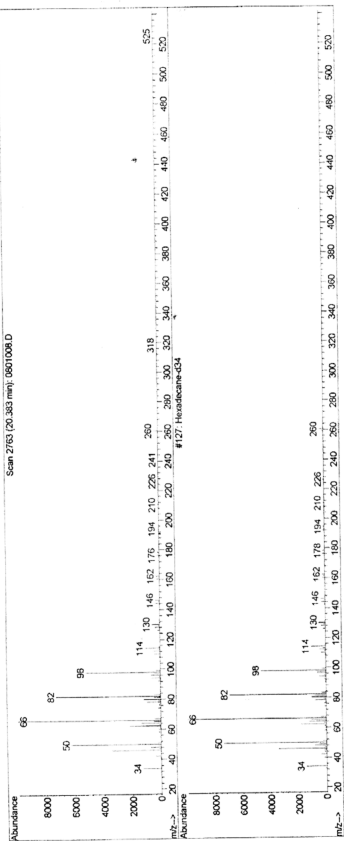
File : C:\HPCHEM\1\DATA\040210S\0801008.D
Operator : Pua
Acquired : 11 Feb 2004 00:36 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name: Motor Supplier C
Misc Info :
Vial Number: 8



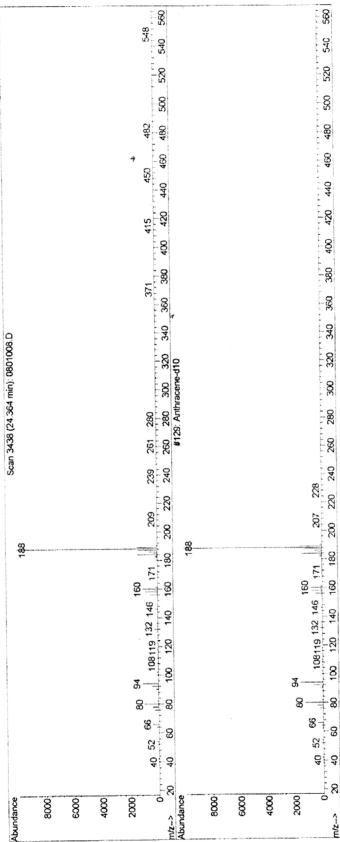
File : C:\HPCHEM\1\DATA\040306\0101001.D
Operator : Pua
Acquired : 6 Mar 2004 13:32 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name: Motor Supplier D
Misc Info :
Vial Number: 1



Library Searched : C:\DATABASE\WDC.L
Quality : 94
ID : Hexadecane-d34



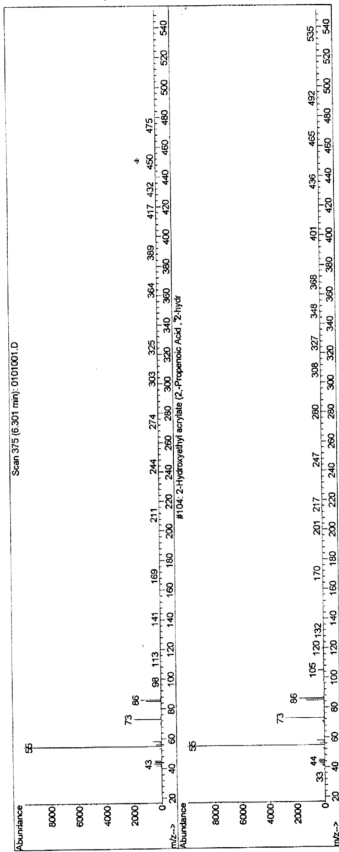
Library Searched : C:\DATABASE\WDC.L
Quality : 94
ID : Anthracene-d10



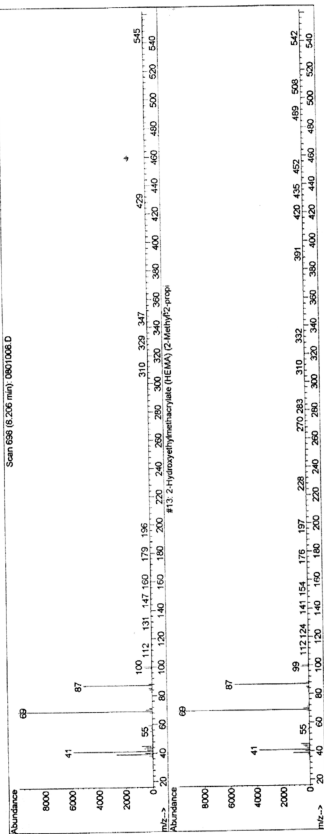
Library Searched : C:\DATABASE\WDC.L

Quality : 83

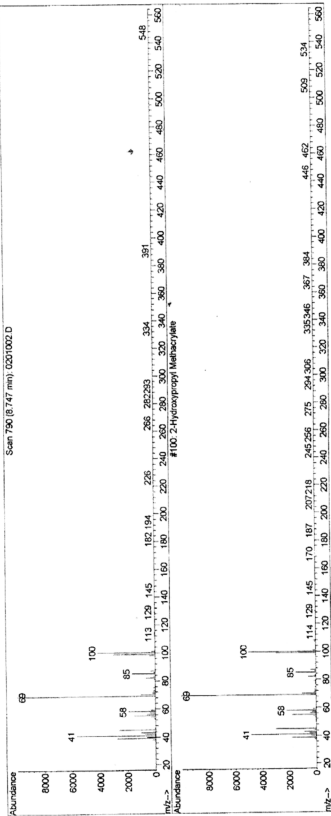
Quality	ID
83	2-Hydroxyethyl acrylate (2,-Propenoic Acid , 2-hydroxyethyl ester)



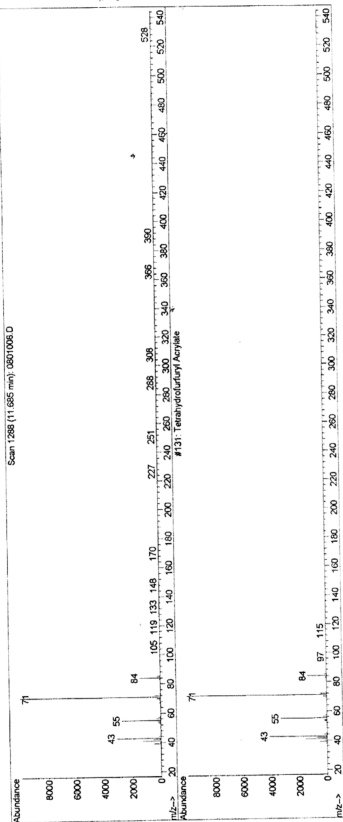
Library Searched : C:\DATABASE\WDC.L
 Quality : 83
 ID : 2-Hydroxyethylmethacrylate (HEMA) (2-Methyl-2-propionic Acid, 2-hydroxy ethyl es



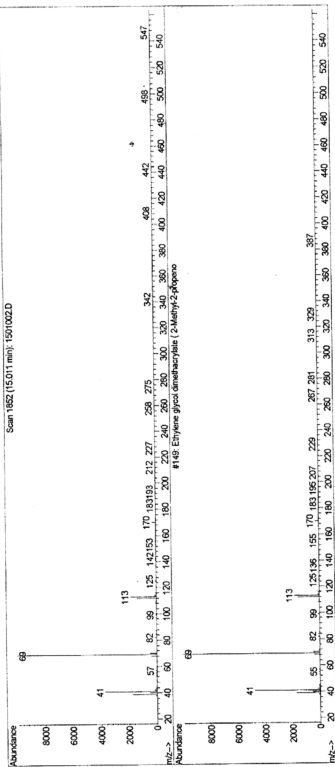
Library Searched : C:\DATABASE\WDC.L
Quality : 90
ID : 2-Hydroxypropyl Methacrylate



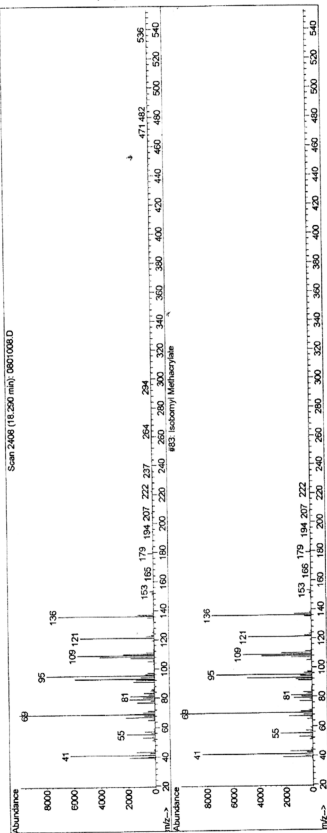
Library Searched : C:\DATABASE\WDC.L
Quality : 83
ID : Tetrahydrofurfuryl Acrylate



Library Searched : C:\DATABASE\WDC.L
 Quality : 22
 ID : Ethylene glycol dimethacrylate (2-Methyl-2-propenoic acid-1,2-ethanediyl ester)



Library Searched : C:\DATABASE\WDC.L
Quality : 99
ID : Isobornyl Methacrylate



**Appendix 2. Semi Quantitative Results for chemical compounds outgassed from
motor A, B, C and D**

Appendix 2: List of Chemical Compounds Outgassed from Motor A

RT	Library/ID	CAS#	1		2		3		4		5	
			Area	ng/pc	Area	ng/pc	Area	ng/pc	Area	ng/pc	Area	ng/pc
6.14	Cumene (Isopropylbenzene)	000098-82-8	3666293	61	ND	ND	ND	ND	ND	ND	ND	ND
6.65	Cyclohexene, 3-methyl-6-(1-methylethylidene)-	000586-63-0	ND	ND	1724342	26	ND	ND	ND	ND	ND	ND
6.92	Benzaldehyde	000100-52-7	3602746	60	1929322	30	3077350	47	ND	ND	ND	ND
7.37	alpha-methylstyrene	000098-83-9	ND	ND	1722294	26	3815217	58	3540806	54	2421208	37
8.15	2-Hydroxyethylmethacrylate (HEMA)	000868-77-9	278154558	4610	140501131	2149	231853863	3552	288640823	4429	165243320	2529
9.31	Acetophenone (1-phenyl ethanone)	000098-86-2	5540651	92	2989157	46	4295513	66	5018992	77	3285913	50
9.75	alpha-alpha-Dimethylbenzene methanol	000617-97-7	19525338	324	10219726	156	17066780	261	13803192	212	9857588	151
12.12	Benzaldehyde, 3,5-dimethyl-	005779-95-3	4337921	72	ND	ND	ND	ND	4649103	71	ND	ND
15.01	Ethylene glycol dimethacrylate (EGDM)	000097-90-5	18761292	311	15905407	243	32066157	491	23901825	367	23844068	365
15.72	2-Undecene, (Z)-	000821-96-5	ND	ND	ND	ND	ND	ND	2094930	32	ND	ND
16.07	Cyclopentane, 1,2-dimethyl-3-(1-methyl)	000489-20-3	2308096	38	1155503	19	ND	ND	2646970	41	ND	ND
17.22	Isobornyl Methacrylate (IBM)	007534-94-3	5947569	99	2949926	45	5589225	86	4592437	70	4609237	71
18.28	Isobornyl methacrylate (IBM)	007534-94-3	116308826	1928	63030006	964	108527902	1663	90559294	1390	88833827	1360
18.61	Ethanone, 1-(2,3,4-trimethylphenyl	001467-36-3	2958403	49	2096853	32	2831852	43	ND	ND	2925450	45
18.95	Isobornyl methacrylate (IBM)	007534-94-3	3725127	62	2235717	34	3243130	50	2957269	45	ND	ND
20.38	Hexadecane-d34	015716-08-2	60341695	-	65393378	-	65276759	-	65164427	-	65334738	-
22.64	1-Hydroxycyclohexyl phenyl ketone	000947-19-3	3031094	50	ND	ND	ND	ND	ND	ND	3937713	60
24.36	Anthracene-d10	001719-06-8	44944758	-	25135838	-	47255364	-	42588818	-	43284048	-
Semi quantitative Total Outgas (ng/pc)			7754		3769		6317		6789		4668	
Recovery Standard Peak Area			55945946									
% Recovery			80		45		84		76		77	

Note: ND denotes not detected

Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier B

RT	Library/ID	CAS#	1		2		3		4		5	
			Area	ng	Area	ng	Area	ng	Area	ng	Area	ng
4.71	Propanoic acid	000079-09-4	15103808	252	ND	ND	10609823	155	11412211	170	10231304	153
5.33	Tetrahydrofurfuryl Alcohol	000097-99-4	134339172	2243	78025164	1175	95263240	1388	120331922	1794	108389320	1622
6.27	2-Hydroxyethyl acrylate	000818-61-1	28305444	473	9029520	136	23232057	338	12232837	182	10961729	164
6.9	Benzaldehyde	000100-52-7	11501755	192	ND	ND	10701131	156	13593371	203	12114868	181
7.35	alpha.-methylstyrene	000098-83-9	7616159	127	10242885	154	6166463	90	11119804	166	14759472	221
8.38	2-Ethyl hexanol	000104-76-7	12406942	207	ND	-	11094619	162	10883779	162	13062540	196
8.75	2-Hydroxypropyl Methacrylate	000923-26-2	77892810	1300	72621277	1093	97871145	1426	120626156	1798	95455991	1429
8.88	2-Hydroxypropyl Methacrylate	000923-26-2	29422029	491	24603897	370	37805818	551	40102799	598	38943697	583
9.31	Acetophenone (1-phenyl ethanone)	000098-86-2	72157144	1205	49639863	747	69246577	1009	68270041	1018	68458745	1025
9.67	Benzaldehyde, 3-methyl-	000620-23-5	9992734	167	ND	ND	ND	ND	11646026	174	9364740	140
9.8	alpha-alpha-Dimethylbenzene methanol	000617-97-7	453477200	7571	325072833	4895	431337410	6283	423728001	6317	417989827	6257
10.37	n-Dodecane	000112-40-3	10027275	167	ND	ND	12491431	182	ND	ND	ND	ND
10.46	n-Docosane	000629-97-0	ND	ND	ND	ND	11696017	170	ND	ND	ND	ND
10.69	n-Tetradecane	000629-59-4	8857981	148	ND	ND	11534171	168	ND	ND	ND	ND
11.35	n-Docosane	000629-97-0	14469482	242	ND	ND	14908360	217	ND	ND	ND	ND
11.44	n-Hexadecane	000544-76-3	ND	ND	ND	ND	8517944	124	ND	ND	ND	ND
11.69	Tetrahydrofurfuryl Acetate	000637-64-9	334708171	5588	201717817	3037	299440178	4362	199263358	2971	165238020	2473
11.87	1,1,3-Trimethylindene	004773-83-5	34773067	581	23175317	349	27557920	401	26050994	388	22445474	336
12.38	n-Dodecane	000112-40-3	17230432	288	9724632	146	17310625	252	14718771	219	13482990	202
13.44	Benzamide	000055-21-0	28402137	474	15046968	227	ND	ND	ND	ND	ND	ND
14.35	Propanedioic acid, (benzoylhydrazine) ester	1000142-99-9	65098228	1087	41438228	624	49646110	723	44825131	668	32752376	490
14.61	Naphthalene, 2-methyl-	000091-57-6	14106928	236	ND	ND	11935819	174	16214169	242	13614168	204
14.66	n-Hexadecane	000544-76-3	37732080	630	24145656	364	32031770	467	33018628	492	30754261	460
16.33	n-Hexadecane	000544-76-3	19137949	320	12158837	183	15880622	231	19348547	288	16782738	251

Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier B (Cont.)

RT	Library/ID	CAS#	1		2		3		4		5	
16.83	n-Tetradecane	000629-59-4	57872016	966	36991805	557	49337522	719	56865555	848	41606120	623
16.89	Bicyclo[4.2.0]octa-1,3,5-trien-7-o	035447-99-5	21403312	357	13525271	204	14872115	217	13945849	208	ND	ND
17.4	Naphthalene, 2,7-dimethyl-	000582-16-1	ND	ND	ND	ND	ND	ND	12961621	193	ND	ND
18.12	n-Hexadecane	000544-76-3	12273983	205	ND	ND	9561343	139	13361497	199	10358000	155
18.58	BHT quinone methide	002607-52-5	ND	ND	ND	ND	ND	ND	ND	ND	11186392	167
18.89	n-Octadecane	000593-45-3	32084401	536	19380700	292	24988765	364	32664643	487	26060966	390
20.38	Hexadecane-d34	015716-08-2	59898496	-	66414194	-	68649201	-	67073506	-	66807025	-
20.85	n-Hexadecane	000544-76-3	10840036	181	ND	ND	ND	ND	10100880	151	ND	ND
24.36	Anthracene-d10	001719-06-8	49984972	-	45009232	-	45050626	-	56611999	-	49028422	-
26.85	Bicyclo[2.2.1]heptane, 2,2,3-trime	020536-40-7	10698860	179	ND	ND	ND	ND	ND	ND	ND	ND
30.54	Naphthalene, 1,2,3,4-tetrahydro-1,	000475-03-6	12172058	203	10135567	153	ND	ND	9847691	147	ND	ND
Semi quantitative Total Outgas (ng/pc)			26615		14706		20467		20084		17723	
Recovery Standard							62586772					
% Recovery			80		72		72		90		78	

Note: ND denotes not detected

Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier C

RT	Library/ID	CAS#	1		2		3		4		5	
			Area	ng	Area	ng	Area	ng	Area	ng	Area	ng
4.68	1,2-Ethanediol, monoacetate	000542-59-6	13618513	192	ND	ND	ND	ND	ND	ND	ND	ND
5.32	Tetrahydrofurfuryl Alcohol	000097-99-4	131450797	1856	82566697	1157	101298548	1423	92242786	1300	76028973	1167
6.88	Benzaldehyde	000100-52-7	15388163	217	15769694	221	15960027	224	16692841	235	15404697	236
7.35	alpha-methylstyrene (1-methyleth	000098-83-9	ND	ND	ND	ND	ND	ND	ND	ND	8065416	124
7.74	2-Hexenal, 2-ethyl-	000645-62-5	13965479	197	14930508	209	16216843	228	16266646	229	17312767	266
8.26	2-Hexenal, 2-ethyl-	000868-77-9	512570715	7238	588422034	8244	630493664	8860	577174782	8135	612476601	9398
8.39	2-Ethyl Hexanol	000104-76-7	29273951	413	26897409	377	32751633	460	30387261	428	29738961	456
9.3	Acetophenone (1-phenyl ethanone)	000098-86-2	62509653	883	57928058	812	66210130	930	60834823	857	66589151	1022
9.66	Benzaldehyde, 4-methyl-	000104-87-0	22746813	321	14093103	197	23213284	326	21741358	306	17240000	265
9.78	alpha-alpha-Dimethylbenzene methanol	000617-97-7	333888493	4715	268266572	3759	3136222848	4407	296901151	4185	294150141	4513
10.03	n-Dodecane	000112-40-2	9726186	137	8563135	120	9748503	137	9651004	136	10147496	156
11.69	Tetrahydrofurfuryl Acrylate	002399-48-6	131752781	1860	112069084	1570	131960648	1854	137062524	1932	130213726	1998
11.86	1,1,3-Trimethylindene	004773-83-5	25238099	356	19065602	267	21303248	299	20669650	291	21644570	332
12.08	Azulene	000275-51-4	ND	ND	ND	ND	ND	10871424	153	ND	ND	ND
12.38	n-Dodecane	000112-40-3	30065900	425	30040435	421	31454517	442	33811690	477	32904894	505
12.7	n-Eicosane	000112-95-8	10701960	151	ND	ND	10783600	152	10254575	145	10650951	163
13.63	Caprolactam (Hexahydro-2H-azepin-2-one)	000105-60-2	87890426	1241	52169014	731	71105168	999	69776104	983	42677417	655
14.04	n-Eicosane	000112-95-8	33114403	468	14324472	201	15578179	219	14973586	211	14886480	228
14.37	Propanedioic acid, (benzoyl)hydrazide	1000142-99-9	13880792	196	20319947	285	19995239	281	22236069	313	19886815	305
14.62	Naphthalene, 2-methyl-	000091-57-6	20115093	284	17630598	247	ND	ND	19484273	275	19789352	304
14.66	n-Hexadecane	000544-76-3	56577587	799	50582542	709	79181039	1113	58724808	828	60212309	924
15.02	Ethylene glycol dimethacrylate	000097-90-5	6554262	926	55769884	781	57324533	806	52969071	747	81310150	1248
16.05	n-Eicosane	000112-95-8	15605627	220	ND	ND	17001498	239	16315036	230	15736816	241
16.33	n-Octadecane	000593-45-3	25448246	359	20517875	287	24494791	344	24734031	349	23877980	366
16.84	n-Tetradecane	000629-59-4	ND	ND	63349352	888	75112913	1055	79157380	1116	72441522	1112
16.85	n-Tetradecane	000629-59-4	75325854	1064	ND	ND	ND	ND	ND	ND	ND	ND

Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier C (Cont.)

RT	Library/ID	CAS#	1		2		3		4		5	
17.23	Isobornyl Methacrylate (IBM)	007534-94-3	8406415	119	13368870	187	11606818	163	9475844	134	13503564	207
17.4	Naphthalene, 2,7-dimethyl-	000582-16-1	18309233	259	15177515	213	18253645	256	18347020	259	18179178	279
18.13	n-Dodecane	000112-40-3	22442621	317	18796661	263	24107890	339	22637302	319	21253154	326
18.3	Isobornyl Methacrylate (IBM)	007534-94-3	176780205	2496	279343532	3914	249862602	3511	195901673	2761	294789443	4523
18.57	BHT-quinone methide	002607-52-5	23452608	331	11760131	165	15321609	215	20355589	287	10467094	161
18.9	n-Octadecane	000593-45-3	41482516	586	32430102	454	39159414	550	38551788	543	36357510	558
19.25	di-Butyl Hydroxy Toluene	000128-37-0	ND	ND	15925535	223	ND	ND	ND	ND	21638716	332
20.39	Hexadecane-d34	015716-08-2	70819067	-	71375073	-	71165446	-	70952389	-	65171309	-
20.85	n-Octadecane	000593-45-3	12815953	181	11163668	156	12567270	177	11379681	160	11313508	174
22.63	1-Hydroxycyclohexyl phenyl ketone	000947-19-3	ND	ND	ND	ND	ND	ND	14164426	200	ND	ND
24.36	Anthracene-d10	001719-06-8	51321927	-	42034748	-	50484335	-	50179069	-	46182805	-
Semi quantitative Total Outgas (ng/pc)			26759		25901		28740		27069		31377	
Recovery Standard			58714394									
% Recovery			87		72		86		85		79	

Note: ND denotes not detected

Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier D

RT	Library/ID	CAS#	1		2		3		4		5	
			Area	ng	Area	ng	Area	ng	Area	ng	Area	ng
4.7	1,2-Ethanediol, monoacetate	000542-59-6	26792695	424	31698387	460	33543564	459	26655504	357	44118352	588
5.35	Tetrahydrofurfuryl Alcohol	000097-99-4	79281312	1255	85807833	1245	92101710	1260	81898285	1098	136515157	1820
6.29	2-Hydroxyethyl acrylate	000818-61-1	59740284	946	56134262	815	65631458	898	48613951	652	67567442	901
6.9	Benzaldehyde	000100-52-7	9357036	148	13904427	202	11063389	151	12346174	166	16365898	218
8.22	2-Hydroxyethylmethacrylate (HEMA)	000868-77-9	735689668	11650	716310861	10395	635154005	8689	581158026	7794	914697498	12192
8.4	2-Ethyl Hexanol	000104-76-7	16481443	261	17681159	257	20010066	274	17714676	238	ND	ND
9.31	Acetophenone (1-phenyl ethanone)	000098-86-2	20531226	325	22870750	332	24847577	340	22046649	296	35298954	471
9.78	alpha-phenol-Dimethylbenzene methanol	000617-97-7	135429992	2145	150524146	2184	149447516	2044	141298684	1895	207048364	2760
10.11	Neopentyl isothiocyanate	000597-97-7	20512148	325	21172379	307	22377269	306	21883951	293	25028623	334
11.08	2-Ethylhexanoic acid	000149-57-5	207932494	3293	272615565	3956	292569482	4002	306189007	4106	326331781	4350
11.36	Benzene, 1,2-bis(1-methylethyl)-	000577-55-9	277027194	4387	318424219	4621	250095325	3421	385324072	5168	359557684	4793
11.71	Tetrahydrofurfuryl Acrylate	002399-48-6	356968282	5653	344552153	5000	281943669	3857	315122894	4226	301830725	4023
11.84	Benzene, 1,4-bis(1-methylethyl)-	000100-18-5	167650309	2655	195115510	2831	130723447	1788	211377705	2835	231391886	3084
11.88	1,1,3-Trimethylindene	004773-83-5	ND	ND	ND	ND	23119749	316	ND	ND	ND	ND
12.36	Tributylamine	000102-82-9	21072162	334	60672522	880	61118541	836	73168899	981	62026202	827
12.88	Benzene, 1-(1-methylethyl)-3-(1-	001129-29-9	10168531	161	10774293	156	11076871	152	9324458	125	12317364	164
13.07	1-Phenyl-2-butanone	001007-32-5	34638861	549	34579151	502	26788943	366	32040426	430	40176869	536
13.44	Benzene, 1-(1-methylethyl)-3-(1-	001129-29-9	7809566	124	ND	ND	8236215	113	ND	ND	10099919	135
14.35	Propanedioic acid, (benzoyl)hydrazide	1000142-99-9	41875225	663	44369446	644	48915156	669	37855378	508	66401539	885
14.81	Benzaldehyde, 2,4,5-trimethyl-	005779-72-6	ND	ND	15423237	224	ND	ND	12398111	166	15184432	202
14.92	Benzeneethanol, alpha-methyl-3-(	054518-11-5	151047176	2392	162145457	2353	162390525	2222	163158714	2188	230031878	3066
15.03	Ethylene glycol dimethacrylate	000097-90-5	7354369	116	6520979	95	11847755	162	28305607	380	17317051	231
15.13	Ethanone, 1-(4-(1-methylethyl)phen	000645-13-6	39527696	626	44468055	645	42822483	586	40196868	539	59166312	789
15.53	Benzyl alcohol	003445-42-9	68572070	1086	72994984	1059	74820304	1024	74952172	1005	105167311	1402
15.71	Ethanone, 1-(4-(1-methylethyl)phen	000645-13-6	22022703	349	24214339	351	23974259	328	23021484	309	33430384	446
18.28	Isobornyl Methacrylate (IBM)	007534-94-3	116139607	1839	114052662	1655	120354498	1646	132693033	1780	222733450	2969

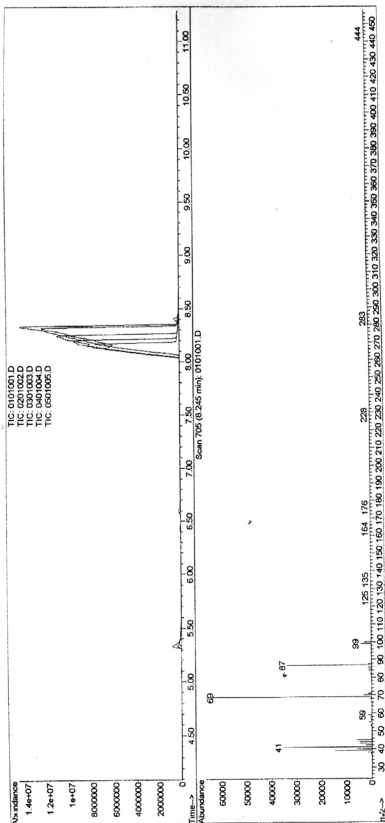
Appendix 2. List of Chemical Compounds Outgassed from Motor Supplier D (Cont.)

Library/ID	CAS#	1		2		3		4		5	
		Area	ng	Area	ng	Area	ng	Area	ng	Area	ng
BHT-quinone methide {2,6-bis (1,1-	002607-52-5	11991155	190	11545878	168	11294613	155	11644539	156	ND	ND
Hexadecane-d34	015716-08-2	63149702	-	68909932	-	73097555	-	74565120	-	75021579	-
Anthracene-d10	001719-06-8	51701680	-	47430014	-	55379454	-	56090182	-	55715763	-
Octyl butyl phthalate (1,2-Benzene	000084-78-6	ND	ND	11757771	171	12557876	172	ND	ND	ND	ND
Semi quantitative Total Outgas (ng/pc)		41894		41508		36237		37690		47184	
Recovery Standard		56337742									
% Recovery		92		84		98		100		99	

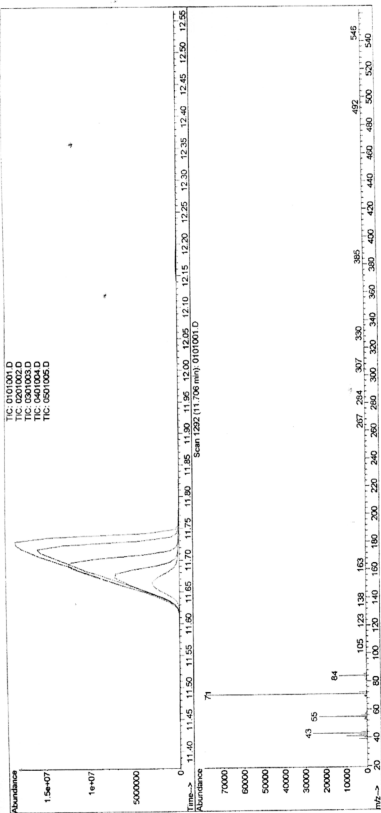
Note: ND denotes not detected

Appendix 3. Overlaid GC Chromatograms for HEMA, THFA and IBM

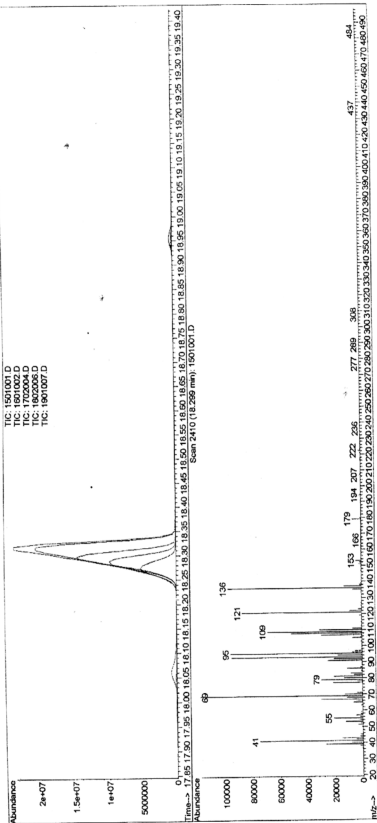
File : C:\HPCHEM\1\DATA\040329ST\0101001.D
Operator : Pua
Acquired : 29 Mar 2004 19:28 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name : Overlaid Peaks of 2-Hydroxyethyl Methacrylate
Misc Info : 10, 20, 30, 40, 50ug
Vial Number: 1



File : C:\HPCHEM\1\DATA\040329ST\0101001.D
Operator : Pua
Acquired : 29 Mar 2004 19:28 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name: Overlayed Peaks of Tetrahydrofurfuryl Acrylate
Misc Info : 2,5,10,15,20ug
Vial Number: 1

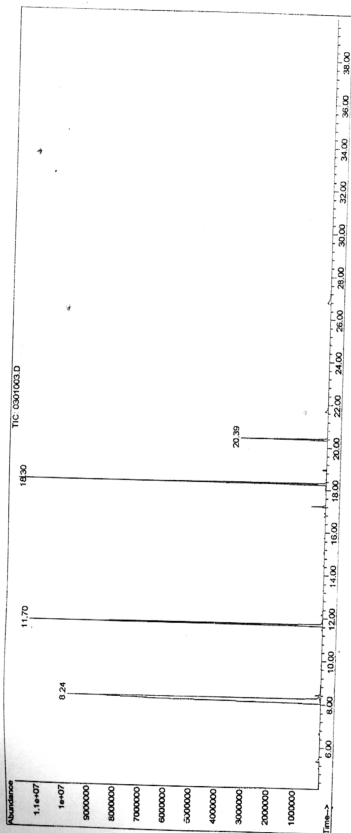


File : C:\HPCHEM\1\DATA\040330ST\1501001.D
Operator : Pua Mar 2004 10:34 using AcqMethod SAM100
Acquired : 30 Mar 2004 10:34
Instrument : GC/MS Ins
Sample Name : Overlay Chromatogram of Isobornyl Methacrylate
Misc Info : 2,4,6,8,10ug
Vial Number: 15

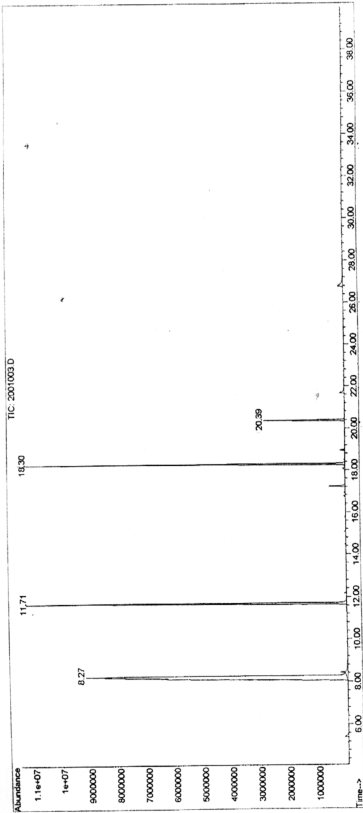


Appendix 4. Check Standards Chromatograms

File : C:\HPCHEM\1\DATA\040403ST\0301003.D
Operator : Pua
Acquired : 3 Apr 2004 21:57 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name : Check Std Cal Plot
Misc Info : HEMA 25ug, THFA 10ug, IEM 5ug, C16D34 1ug
Vial Number: 3



File : C:\HPCHEM\1\DATA\040404ST\2001003.D
 Operator : Pua
 Acquired : 4 Apr 2004 16:49 using AcqMethod SAM100
 Instrument : GC/MS Ins
 Sample Name : Check Std Cal Plot
 Misc Info : HEMA 25ug, THFA 10ug, IBM 5ug, C16D34 1 ug
 Vial Number: 20



File : C:\HPCHEM\1\DATA\040405\1501013.D
Operator : Pua
Acquired : 5 Apr 2004 11:42 using AcqMethod SAM100
Instrument : GC/MS Ins
Sample Name : Check Std Cal Plot
Misc Info : HEMA 25ug, THFA 10ug, IBM 5ug, C16D34 1ug
Vial Number: 15

