

Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

ASTM D6730 with Helium Carrier

Summary by Group

<u>Group</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>	<u>Avg MW</u>	<u>Avg SG</u>
Paraffin	11.242	12.532	12.733	10.461	0.081
I-Paraffins	26.665	29.004	27.342	24.813	0.193
Aromatics	23.608	19.475	19.234	21.969	0.171
<i>Mono-Aromatics</i>	21.496	17.847	17.738	20.004	0.156
<i>Naphthalenes</i>	0.282	0.199	0.204	0.262	0.002
<i>Indanes</i>	1.669	1.307	1.181	1.553	0.012
<i>Indenes</i>	0.161	0.121	0.111	0.150	0.001
Naphthenes	12.392	11.805	12.241	11.532	0.090
<i>Mono-Naphthenes</i>	12.382	11.796	12.235	11.522	0.090
<i>Di/Bicyclo-Naphthenes</i>	0.010	0.009	0.006	0.010	0.000
Olefins	25.094	26.302	27.830	23.351	0.182
<i>n-Olefins</i>	8.004	8.688	9.557	7.449	0.058
<i>Iso-Olefins</i>	12.919	13.578	13.918	12.022	0.094
<i>Naphtheno-Olefins</i>	2.971	2.826	3.105	2.764	0.022
<i>Di-Olefins</i>	1.200	1.210	1.250	1.117	0.009
Oxygenates	0.000	0.000	0.000	0.000	0.000
Unidentified	1.000	0.883	0.620	0.930	0.007
Plus	0.000	0.000	0.000	0.000	0.000
	100.000	100.000	100.000	93.056	0.724

Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

ASTM D6730 with Helium Carrier

Component List

<u>Pk#</u>	<u>Time</u>	<u>C#</u>	<u>Component</u>	<u>%Wgt</u>	<u>%Vol</u>	<u>%Mol</u>
1	9.112	4	i-Butane	0.059	0.077	0.094
2	9.845	4	Isobutene	0.101	0.123	0.167
3	9.883	4	Butene-1	0.107	0.131	0.178
4	10.197	4	n-Butane	0.370	0.463	0.593
5	10.617	4	t-Butene-2	0.324	0.388	0.537
6	10.717	5	2,2-Dimethylpropane	0.009	0.011	0.012
7	11.230	4	c-Butene-2	0.369	0.431	0.613
8	12.892	5	3-Methylbutene-1	0.179	0.207	0.238
9	13.963	5	i-Pentane	6.865	8.025	8.854
10	14.970	5	Pentene-1	0.578	0.654	0.767
11	15.450	5	2-Methylbutene-1	1.237	1.378	1.642
12	15.747	5	n-Pentane	5.059	5.851	6.524
13	16.082	5	2-Methyl-1,3-Butadiene	0.073	0.077	0.099
14	16.337	5	t-Pentene-2	1.639	1.831	2.174
15	16.712	5	3,3-Dimethylbutene-1	0.025	0.028	0.034
16	16.885	5	c-Pentene-2	0.922	1.019	1.224
17	17.227	5	2-Methylbutene-2	2.648	2.896	3.513
18	17.445	5	1t,3-Pentadiene	0.065	0.070	0.089
19	18.162	5	3-Methylbutadiene-1,2	0.014	0.016	0.019
20	18.300	6	2,2-Dimethylbutane	0.123	0.138	0.133
21	19.608	5	Cyclopentene	0.323	0.303	0.442
22	19.977	6	4-Methylpentene-1	0.118	0.128	0.131
23	20.057	6	3-Methylpentene-1	0.191	0.208	0.211
24	20.458	5	Cyclopentane	0.781	0.759	1.036
25	20.650	6	2,3-Dimethylbutane	0.857	0.938	0.925
26	20.792	6	2,3-Dimethylbutene-1	0.200	0.212	0.221
27	20.942	6	C6_Iso-Olefins(1)	0.116	0.123	0.129
28	21.055	6	2-Methylpentane	4.557	5.054	4.921
29	21.205	6	4-Methyl-t-pentene-2	0.346	0.372	0.383
30	22.245	6	3-Methylpentane	2.992	3.262	3.230
31	22.722	6	Hexene-1	0.557	0.596	0.616
32	22.815	6	1c/t,4-Hexadiene	0.336	0.348	0.372
33	23.815	6	n-Hexane	3.260	3.581	3.521
34	24.052	6	t-Hexene-3	0.387	0.411	0.428
35	24.130	6	c-Hexene-3	0.151	0.160	0.167
36	24.288	6	t-Hexene-2	0.804	0.853	0.889
37	24.502	6	2-Methylpentene-2	0.888	0.930	0.981
38	24.613	6	3-Methylcyclopentene	0.243	0.231	0.276
39	24.770	6	3-Methyl-c-pentene-2	0.574	0.595	0.634
40	24.918	6	4-methylcyclopentene	0.128	0.121	0.145
41	25.155	6	c-Hexene-2	0.447	0.468	0.495
42	25.408	6	3-Methyl-t-pentene-2	0.012	0.012	0.013
43	25.753	7	3,3-Dimethylpentene-1	0.883	0.911	0.837
44	25.943	?	Unidentified	0.017	0.015	0.011

Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

ASTM D6730 with Helium Carrier

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45	26.102	7	2,2-Dimethylpentane	0.032	0.034	0.030
46	26.322	6	Methylcyclopentane	2.998	2.901	3.315
47	26.752	7	2,4-Dimethylpentane	0.281	0.302	0.261
48	26.812	7	2,3,3-Trimethylbutene-1	0.235	0.240	0.222
49	27.018	6	4-Methyl-1,3-pentadiene	0.039	0.041	0.045
50	27.208	7	2,2,3-Trimethylbutane	0.059	0.062	0.055
51	27.400	6	1,3-Pentadiene, 2-methyl-, (E)-	0.031	0.032	0.035
52	27.627	6	C6 - Naph-Olefin - 1	0.031	0.029	0.035
53	28.003	?	Unidentified	0.009	0.008	0.005
54	28.120	7	C7 -Naph-Olefin - 1	0.042	0.041	0.041
55	28.517	7	2,4-Dimethylpentene-1	0.053	0.055	0.051
56	28.673	6	Cyclopentene, 4-methyl-	0.061	0.058	0.069
57	28.787	6	1-Methylcyclopentene	0.848	0.788	0.961
58	28.963	6	Benzene	1.009	0.832	1.202
59	29.187	7	3,3-Dimethylpentane	0.044	0.046	0.041
60	29.512	7	2-Pentene, 2,4-dimethyl-	0.124	0.129	0.118
61	29.733	7	1-Pentene, 2,3-dimethyl-	0.037	0.039	0.036
62	29.923	6	Cyclohexane	1.111	1.034	1.229
63	30.192	7	2-Methyl-t-hexene-3	0.129	0.135	0.122
64	30.445	7	1,4-Hexadiene, 2-methyl-	0.062	0.060	0.059
65	30.588	7	1,4-Pentadiene, 3,3-dimethyl-	0.107	0.104	0.102
66	30.865	7	2-Hexene, 4-methyl-, (E)-	0.269	0.276	0.255
67	31.035	7	2-Methylhexane	1.564	1.670	1.453
68	31.230	7	2,3-Dimethylpentane	0.625	0.651	0.581
69	31.595	7	Dimethyl pentadiene	0.137	0.143	0.132
70	31.943	6	Cyclohexene	0.125	0.112	0.142
71	32.143	7	3-Methylhexane	1.547	1.631	1.437
72	32.635	7	1,5-Heptadiene	0.097	0.094	0.097
73	33.003	7	1t,3-Dimethylcyclopentane	0.743	0.719	0.705
74	33.385	7	1c,3-Dimethylcyclopentane	0.638	0.620	0.605
75	33.555	7	3-Ethylpentane	0.325	0.338	0.302
76	33.770	7	1t,2-Dimethylcyclopentane	0.708	0.682	0.671
77	33.942	8	2,2,4-Trimethylpentane	0.224	0.235	0.183
78	34.053	7	Heptene-1	0.150	0.156	0.142
79	34.835	7	3-Methyl-c-hexene-3	0.168	0.169	0.159
80	35.340	7	2-Methylhexene-1	0.339	0.353	0.322
81	35.432	7	C7_Iso-Olefins(1)	0.286	0.298	0.271
82	35.603	7	n-Heptane	1.266	1.341	1.176
83	35.942	7	3-Methyl-c-hexene-2	0.697	0.709	0.661
84	36.110	7	2-Methyl-2-hexene	0.256	0.261	0.243
85	36.383	7	3-Methyl-t-hexene-3	0.308	0.322	0.292
86	36.642	7	t-Heptene-2	0.174	0.179	0.165
87	37.140	7	3-Ethylpentene-2	0.301	0.300	0.285
88	37.210	7	Cyclopentene, 1,5-dimethyl-	0.247	0.238	0.234

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89	37.720	7	3-Methyl-t-hexene-2	0.283	0.285	0.268
90	38.008	7	2,3-Dimethylpentene-2	0.023	0.023	0.022
91	38.452	7	3-Ethylcyclopentene	0.037	0.035	0.036
92	38.752	7	1c,2-Dimethylcyclopentane	0.348	0.344	0.330
93	38.905	7	Methylcyclohexane	1.293	1.217	1.225
94	39.405	8	1,1,3-Trimethylcyclopentane	0.141	0.137	0.117
95	40.045	8	2,2-Dimethylhexane	0.021	0.022	0.017
96	40.443	8	1,3-Dimethyl-1-cyclohexene	0.019	0.019	0.016
97	41.018	7	Ethylcyclopentane	0.515	0.487	0.489
98	41.513	8	2,4-Dimethylhexane	0.299	0.309	0.243
99	41.660	8	C8 - IsoOlefin - 1	0.151	0.142	0.125
100	42.667	8	1c,2t,4-Trimethylcyclopentane	0.252	0.239	0.209
101	43.350	9	2,6-Dimethylheptene-1	0.022	0.022	0.016
102	43.938	8	3,3-Dimethylhexane	0.102	0.104	0.083
103	44.187	8	1t,2c,3-Trimethylcyclopentane	0.202	0.190	0.167
104	44.532	?	Unidentified	0.051	0.045	0.032
105	44.760	8	2,3,4-Trimethylpentane	0.054	0.054	0.044
106	44.965	7	5-Methyl-c-hexene-2	0.538	0.552	0.510
107	45.295	7	1-Ethylcyclopentene	0.145	0.143	0.120
108	45.862	7	Toluene	2.983	2.492	3.012
109	46.263	8	4-Ethyl-2-hexene	0.063	0.062	0.060
110	46.562	8	4-methyl-2-heptene(1)	0.114	0.117	0.095
111	47.183	8	2,3-Dimethylhexane	0.282	0.287	0.230
112	47.448	8	2-Methyl-3-ethylpentane	0.077	0.078	0.062
113	47.727	8	2-Hexene, 2,5-dimethyl-	0.109	0.112	0.090
114	48.212	7	Cyclohexene, 1-methyl-	0.202	0.200	0.168
115	48.662	8	2-Methylheptane	0.797	0.827	0.649
116	49.042	8	4-Methylheptane	0.257	0.264	0.209
117	49.328	8	C8-Isoparaffin-1	0.075	0.075	0.061
118	50.093	8	C8 - Naph-Olefin - 3	0.201	0.195	0.167
119	50.580	8	3-Methylheptane	0.679	0.697	0.553
120	51.025	8	3-Ethylhexane	0.397	0.403	0.323
121	51.223	8	1t,2-Dimethylcyclohexane	0.125	0.117	0.104
122	51.532	8	1,3-dimethyl-c-cyclohexane	0.141	0.134	0.117
123	53.627	9	2,2,5-Trimethylhexane	0.155	0.159	0.113
124	54.028	8	3c-Ethylmethylcyclopentane	0.323	0.305	0.268
125	54.638	8	3t-Ethylmethylcyclopentane	0.239	0.225	0.198
126	55.030	8	1c,4-Dimethylcyclohexane	0.171	0.159	0.142
127	55.685	8	3-Heptene, 4-methyl-	0.093	0.088	0.077
128	56.323	8	1,4-Hexadiene, 2,3-dimethyl-	0.238	0.226	0.201
129	56.682	8	Octene-1	0.131	0.124	0.108
130	57.538	8	3-Octene, (Z)-	0.380	0.359	0.315
131	58.030	?	Unidentified	0.067	0.059	0.041
132	58.367	8	n-Octane	0.531	0.547	0.432

Certificate of Composition
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FCC Untreated Gasoline

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133	58.718	8	Cyclohexane, 1,4-dimethyl-	0.279	0.264	0.232
134	59.635	8	3,4-Dimethyl-t-2-hexene	0.126	0.120	0.105
135	59.898	8	t-Octene-4	0.038	0.038	0.032
136	60.308	8	Cyclopentene, 1,2,3-trimethyl-	0.261	0.252	0.221
137	60.758	8	2-Hexene, 3,5-dimethyl-	0.171	0.161	0.142
138	62.405	8	t-Octene-3	0.082	0.082	0.068
139	64.572	8	Cyclopentane, 1-ethyl-2-methyl	0.111	0.105	0.092
140	65.180	8	C8 - Naph-Olefin - 5	0.055	0.053	0.045
141	66.113	8	1,4-Dimethyl-1-cyclohexene	0.043	0.043	0.036
142	66.765	9	2,4-Dimethylheptane	0.117	0.119	0.085
143	68.777	8	Ethylcyclohexane	0.178	0.164	0.148
144	69.403	9	2,6-Dimethylheptane	0.075	0.076	0.054
145	70.587	8	1-Ethyl-2-Methylcyclopentene	0.096	0.095	0.082
146	71.875	9	2,5-Dimethylheptane	0.181	0.183	0.131
147	72.312	9	C9 - MonoNaph - 2	0.060	0.056	0.044
148	72.738	?	Unidentified	0.040	0.036	0.025
149	73.153	9	1,1,4-Trimethylcyclohexane	0.045	0.042	0.033
150	73.693	9	trans-1,3-Diethylcyclopentane	0.057	0.047	0.042
151	74.752	?	Unidentified	0.034	0.030	0.021
152	75.493	8	Ethylbenzene	0.862	0.720	0.756
153	76.037	9	1c,2t,4t-Trimethylcyclohexane	0.115	0.107	0.085
154	76.703	8	3-Heptene, 4-ethyl-	0.043	0.040	0.032
155	77.462	?	Unidentified	0.051	0.045	0.031
156	78.275	8	m-Xylene	2.472	2.072	2.167
157	78.593	8	p-Xylene	0.974	0.819	0.853
158	79.675	?	Unidentified	0.079	0.070	0.049
159	80.037	?	Unidentified	0.012	0.011	0.007
160	80.245	9	4-Ethylheptane	0.008	0.009	0.006
161	80.797	9	3,3-Diethylpentane	0.019	0.018	0.014
162	81.163	9	4-Methyloctane	0.265	0.267	0.192
163	81.462	9	2-Methyloctane	0.389	0.395	0.282
164	81.835	9	C9 - NaphOlefin - 2	0.063	0.062	0.047
165	82.378	?	Unidentified	0.011	0.009	0.007
166	82.935	9	Heptane, 3-ethyl-	0.083	0.083	0.060
167	83.317	9	3,4-Dimethylheptane	0.396	0.392	0.287
168	83.633	?	Unidentified	0.053	0.047	0.033
169	84.093	10	2,2,4-trimethylheptane	0.043	0.043	0.028
170	84.653	8	o-Xylene	1.354	1.114	1.187
171	85.370	?	Unidentified	0.037	0.033	0.023
172	86.137	8	Cyclopentane, 1-methyl-2-propyl-	0.090	0.074	0.079
173	86.437	9	C9 MonoNaph - 7	0.188	0.170	0.138
174	87.007	9	3-Methyloctane	0.134	0.134	0.097
175	87.447	9	1à,2à,3à,4à-Tetramethylcyclopentane	0.033	0.031	0.024
176	87.738	9	t-Nonene-3	0.067	0.071	0.049

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FCC Untreated Gasoline

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177	88.037	8	C9-IsoOlefin-3	0.095	0.088	0.070
178	89.003	9	trans-4-Nonene	0.147	0.156	0.108
179	89.495	9	cis-4-Nonene	0.109	0.115	0.080
180	89.917	9	cis-3-Nonene	0.124	0.131	0.091
181	90.528	9	n-Nonane	0.231	0.233	0.167
182	91.082	10	Heptane, 2,5,5-trimethyl-	0.081	0.081	0.053
183	91.307	10	C10 - IsoOlefin - 2	0.044	0.045	0.029
184	91.543	9	Cyclohexane, 1-ethyl-4-methyl-, trans	0.038	0.036	0.028
185	91.788	?	Unidentified	0.056	0.050	0.035
186	92.937	9	i-Propylbenzene	0.034	0.029	0.027
187	93.113	?	Unidentified	0.042	0.037	0.026
188	93.433	9	Cyclohexene,3-propyl-	0.079	0.078	0.060
189	94.407	10	Heptane, 2,3,5-trimethyl-	0.030	0.021	0.019
190	94.880	10	Heptane, 2,4,6-trimethyl-	0.038	0.027	0.025
191	95.858	?	Unidentified	0.020	0.018	0.013
192	96.058	10	C10 IsoParaffin - 1	0.024	0.024	0.016
193	96.383	10	t-2,2,5,5-Tetramethylhexene-3	0.158	0.163	0.105
194	96.800	?	Unidentified	0.012	0.011	0.008
195	97.268	10	2,3,6-trimethylheptane	0.088	0.064	0.058
196	97.493	10	2,7-dimethyloctane(1)	0.049	0.049	0.032
197	97.962	?	Unidentified	0.018	0.016	0.011
198	98.232	10	2,6-Dimethyloctane	0.105	0.104	0.069
199	98.837	9	C9 - MonoNaph - 9	0.030	0.027	0.022
200	99.235	9	n-Propylbenzene	0.288	0.242	0.223
201	100.177	10	3-Methyl-5-ethylheptane	0.035	0.035	0.023
202	100.782	9	1-Methyl-3-ethylbenzene	1.390	1.165	1.076
203	101.152	9	1-Methyl-4-ethylbenzene	0.508	0.427	0.393
204	102.272	9	1,3,5-Trimethylbenzene	0.707	0.592	0.547
205	102.442	?	Unidentified	0.053	0.047	0.033
206	103.293	10	2,3-Dimethyloctane(1)	0.087	0.085	0.057
207	103.600	10	2,2,6-Trimethyloctane	0.167	0.167	0.109
208	104.078	9	1-Methyl-2-ethylbenzene	0.589	0.484	0.456
209	104.413	10	C10 - IsoOlefin - 11	0.011	0.011	0.007
210	104.685	10	3-Ethyloctane	0.016	0.015	0.010
211	105.258	10	3-Methylnonane	0.248	0.245	0.162
212	105.455	10	C10-IsoOlefin-12	0.080	0.083	0.053
213	106.425	10	C10 - IsoOlefin - 13	0.022	0.023	0.015
214	106.798	9	1,2,4-Trimethylbenzene	2.201	1.821	1.704
215	107.170	?	Unidentified	0.038	0.033	0.023
216	107.367	10	C10-IsoOlefin -15	0.103	0.107	0.068
217	107.592	10	C10 IsoParaffin - 8	0.036	0.036	0.024
218	107.853	9	Cyclopentane, 1-methyl-3-(1-methyle	0.041	0.037	0.030
219	108.287	9	C9 - MonoNaph - 10	0.067	0.061	0.049
220	108.603	?	Unidentified	0.015	0.013	0.009

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221	108.785	?	Unidentified	0.081	0.072	0.050
222	108.988	?	Unidentified	0.029	0.026	0.018
223	109.318	10	trans-4-Decene	0.043	0.042	0.029
224	109.503	10	trans-3-Decene	0.079	0.077	0.052
225	109.857	10	t-Butylbenzene	0.022	0.019	0.017
226	110.173	10	n-Decane	0.236	0.234	0.154
227	110.660	10	3-Decene	0.061	0.060	0.040
228	111.443	9	1,2,3-Trimethylbenzene	0.503	0.407	0.389
229	111.755	10	1-Methyl-3-i-propylbenzene	0.052	0.044	0.036
230	112.023	11	C11 Isoparaffin-4	0.019	0.019	0.012
231	112.297	10	1-Methyl-4-i-propylbenzene	0.029	0.024	0.020
232	112.628	11	C11 IsoParaffin - 5	0.018	0.017	0.011
233	112.773	11	C11 IsoParaffin - 6	0.012	0.011	0.007
234	113.273	9	Indan	0.355	0.266	0.279
235	113.603	11	C11-Isoparaffin-7	0.033	0.032	0.020
236	113.773	?	Unidentified	0.009	0.008	0.005
237	114.052	10	Indene	0.054	0.041	0.043
238	114.332	10	1-Methyl-2-i-propylbenzene	0.024	0.020	0.017
239	114.842	11	C11-Isoparaffin-8	0.050	0.049	0.030
240	114.942	10	n-ButylCyclohexane	0.039	0.035	0.026
241	115.560	11	C11 IsoParaffin - 10	0.052	0.051	0.031
242	115.835	?	Unidentified	0.063	0.056	0.039
243	116.008	10	1,3-Diethylbenzene	0.175	0.147	0.121
244	116.392	10	1-Methyl-3-n-propylbenzene	0.429	0.361	0.297
245	116.972	10	1,4-Diethylbenzene	0.190	0.159	0.131
246	117.135	10	n-Butylbenzene	0.095	0.080	0.066
247	117.410	10	1,3-Dimethyl-5-ethylbenzene	0.420	0.345	0.291
248	117.782	10	1,2-Diethylbenzene	0.008	0.007	0.006
249	117.950	10	t-Decahydronaphthalene	0.010	0.009	0.006
250	118.338	11	C11-Isoparaffin-11	0.048	0.046	0.028
251	118.697	10	1-Methyl-2-n-propylbenzene	0.118	0.098	0.082
252	119.133	11	Octane, 2,3,7-trimethyl-	0.097	0.095	0.058
253	119.577	11	C11- Isoparaffin-15	0.083	0.080	0.049
254	119.860	11	C11- Isoparaffin-16	0.015	0.015	0.009
255	120.168	10	1,4,Dimethyl-2-ethylbenzene	0.428	0.354	0.297
256	120.430	10	1,3-Dimethyl-4-ethylbenzene	0.392	0.324	0.272
257	120.975	10	2-Methylindan	0.132	0.099	0.093
258	121.278	10	1,2-Dimethyl-4-ethylbenzene	0.732	0.606	0.507
259	121.747	11	C11 - IsoOlefin - 2	0.020	0.020	0.012
260	122.178	11	1-Methyl-4-t-butylbenzene	0.020	0.017	0.013
261	123.427	11	C11 IsoParaffin - 21	0.077	0.075	0.046
262	123.825	11	1-Ethyl-3-i-propylbenzene	0.066	0.054	0.041
263	124.118	10	1,2-Dimethyl-3-ethylbenzene	0.153	0.124	0.106
264	124.877	11	n-Undecane	0.171	0.167	0.102

Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

ASTM D6730 with Helium Carrier

Component List

Pk#	Time	C#	Component	%Wgt	%Vol	%Mol
265	125.210	?	Unidentified	0.017	0.015	0.010
266	125.505	12	C12 IsoParaffin - 1	0.008	0.008	0.005
267	125.725	11	1-Ethyl-4-i-propylbenzene	0.251	0.205	0.158
268	126.197	11	1-Methyl-1-n-butylbenzene	0.335	0.273	0.210
269	127.127	12	1H-Indene,2,3-dihydro-2,2-dime	0.020	0.015	0.013
270	127.258	?	Unidentified	0.025	0.022	0.015
271	127.395	12	C12 - IsoParaffin - 3	0.024	0.024	0.013
272	128.125	11	2-Undecene, (E)-	0.034	0.033	0.023
273	128.482	10	4-Methylindan	0.464	0.378	0.327
274	129.040	11	Benzene, 1,3-diethyl-5-methyl-	0.089	0.072	0.056
275	129.408	11	1-methyl-4-(1-methylpropyl)be	0.268	0.218	0.168
276	129.810	10	2-Methylindan(1)	0.390	0.317	0.274
277	130.345	10	1,3-Dimethyl-2-ethylbenzene	0.273	0.222	0.190
278	130.887	?	Unidentified	0.048	0.042	0.030
279	131.172	11	Benzene, 1-ethyl-2,4,5-trimethyl-	0.118	0.096	0.074
280	131.485	11	1,4-diethyl-2-methylbenzene	0.064	0.052	0.040
281	131.597	11	Benzene, 1-ethyl-3-(1-methylethyl)-	0.063	0.051	0.040
282	131.873	12	C12 - IsoOlefin - 2	0.030	0.029	0.017
283	132.040	11	Benzene, (1,1-dimethylpropyl)-	0.094	0.076	0.059
284	132.273	11	2,4-diethyl-1-methylbenzene	0.084	0.068	0.053
285	132.497	11	C11 - Aromatic - 5	0.052	0.042	0.033
286	133.012	11	tert-Pentylbenzene	0.057	0.046	0.035
287	133.118	11	1,3-Diethyl-5-Methylbenzene	0.124	0.101	0.078
288	133.603	10	Naphthalene	0.272	0.192	0.198
289	133.813	12	C12-IsoParaffin-8	0.056	0.055	0.031
290	134.155	11	1H-Indene, 2,3-dihydro-1,6-dimethyl-	0.044	0.033	0.028
291	134.332	?	Unidentified	0.013	0.011	0.008
292	134.667	11	4,7-Dimethyl Indane	0.162	0.122	0.103
293	134.892	11	1,1-Dimethyl Indane	0.072	0.054	0.046
294	135.238	12	1t-Butyl-4-ethylbenzene	0.023	0.018	0.013
295	135.917	12	1,3-Di-n-propylbenzene	0.211	0.172	0.121
296	136.163	11	C11 - Aromatic - 11	0.058	0.050	0.037
297	137.153	12	n-Dodecane	0.118	0.114	0.065
298	138.512	12	C3-Indane-1	0.020	0.015	0.012
299	138.940	12	1,3,5-Triethylbenzene	0.028	0.023	0.016
300	139.177	12	1,3,5-trimethyl-2-propylbenze	0.020	0.017	0.012
301	139.890	12	Ethyl Indene - 1	0.036	0.027	0.023
302	140.140	11	C2 Indane - 1	0.027	0.020	0.017
303	140.395	12	C12 - Aromatic - 2	0.013	0.011	0.008
304	140.602	12	1-Methyl-4-n-pentylbenzene	0.021	0.017	0.012
305	141.177	12	C12 - Aromatic - 5	0.022	0.018	0.013
306	141.928	11	4,7-DimethylIndane	0.048	0.036	0.031
307	143.470	11	Diimethyl Indene - 2	0.007	0.005	0.005
308	146.602	11	2-Methylnaphthalene	0.009	0.007	0.006

Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

ASTM D6730 with Helium Carrier

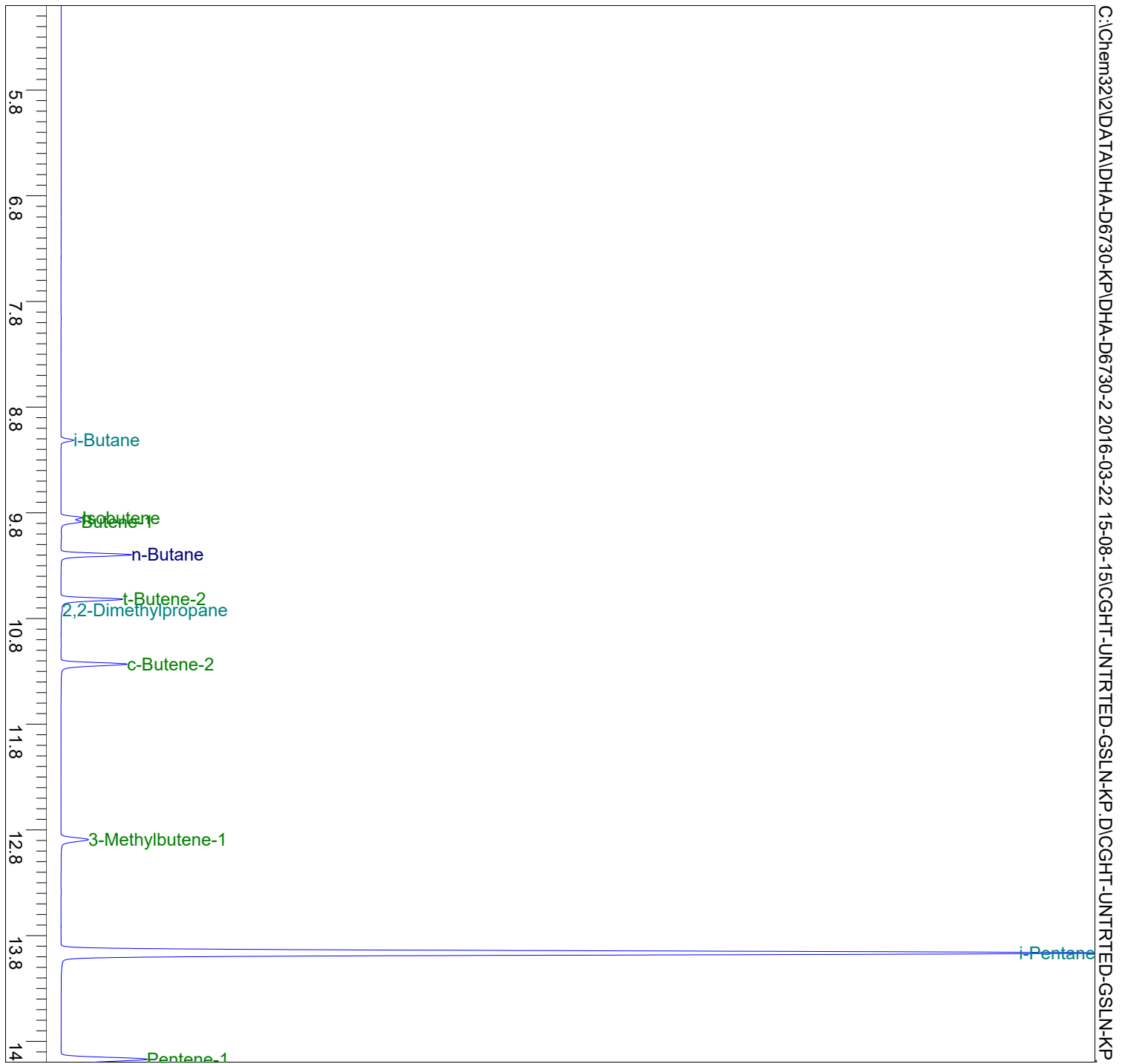
Component List

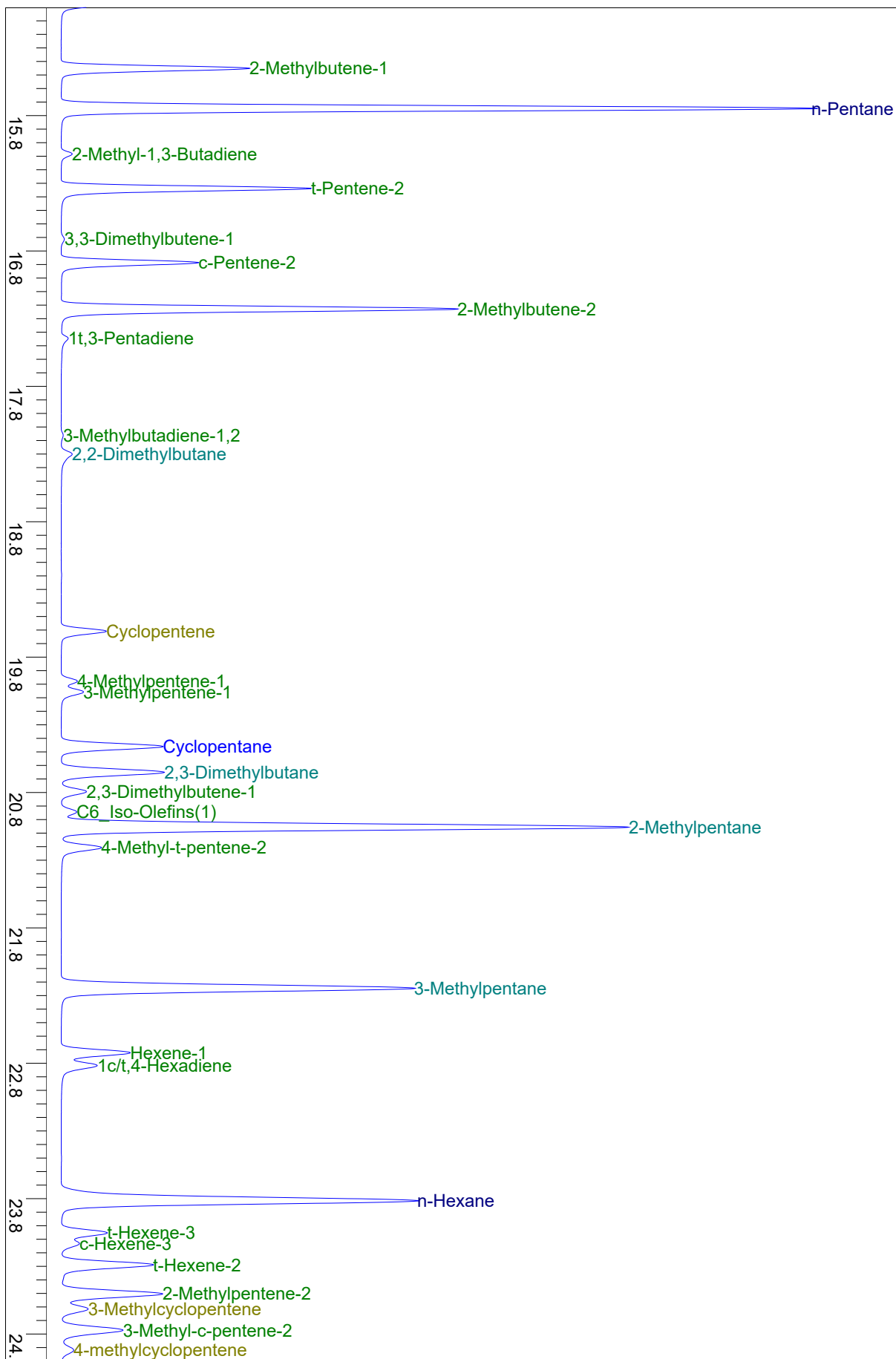
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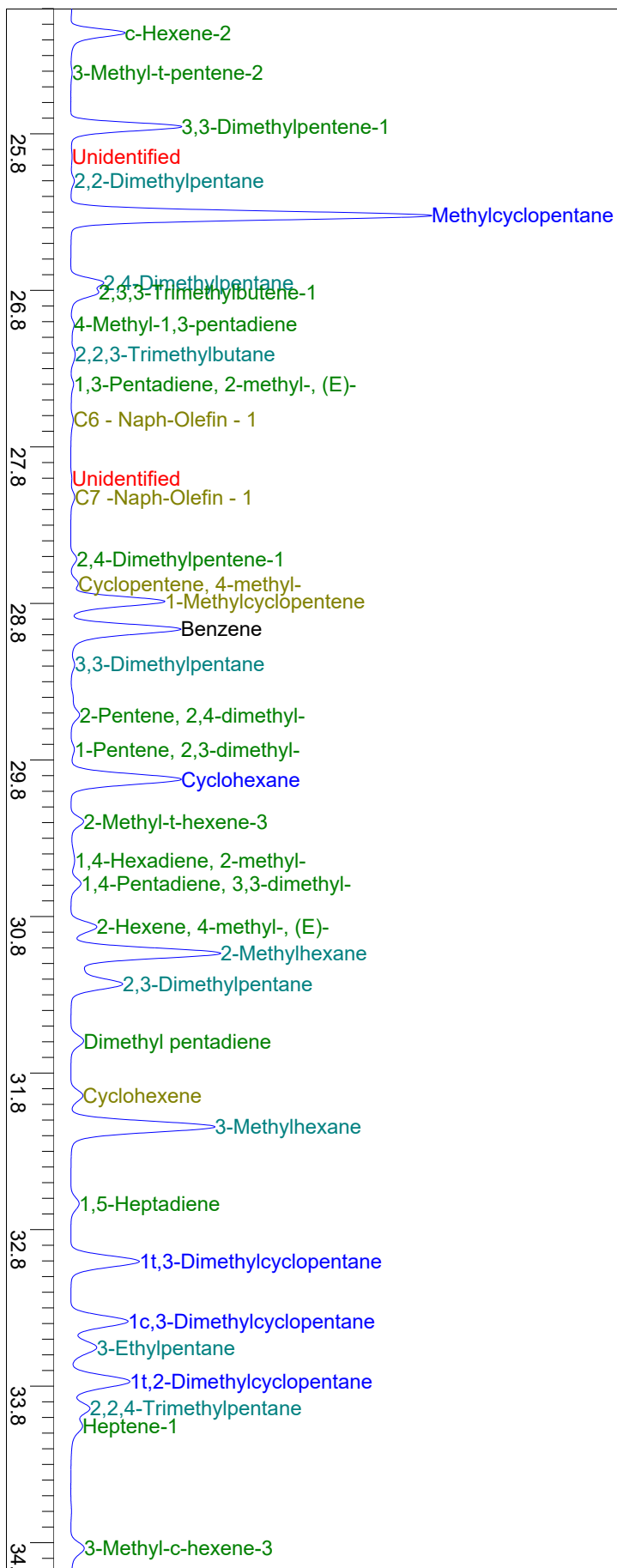
Certificate of Composition
Part #: SD-053-100
FCC Untreated Gasoline

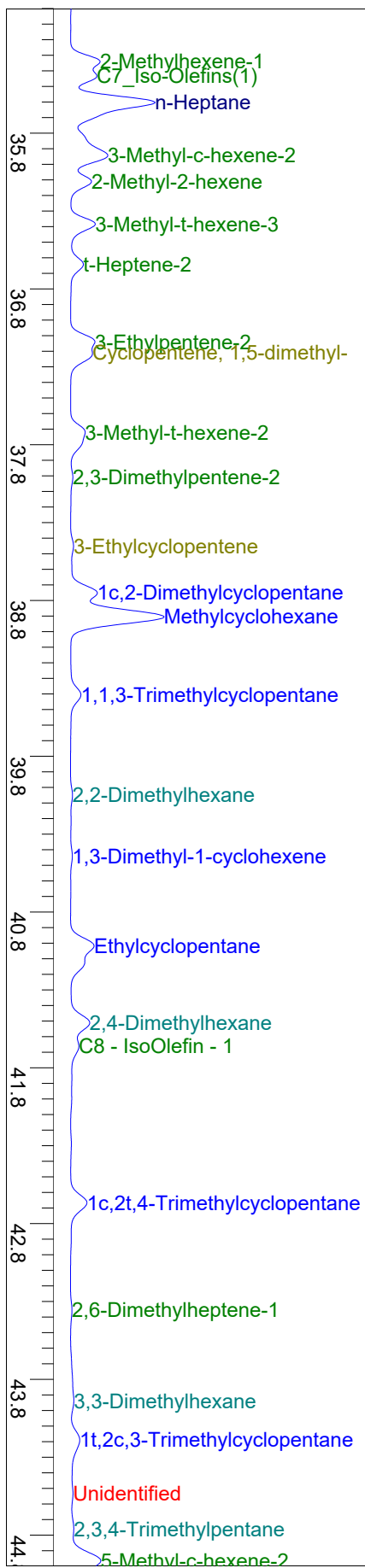
ASTM D6730 with Helium Carrier

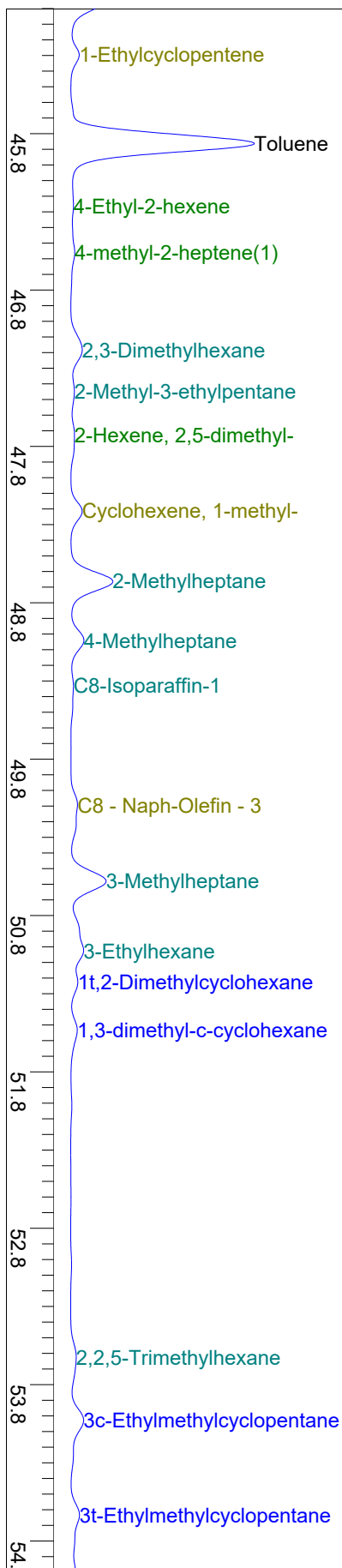
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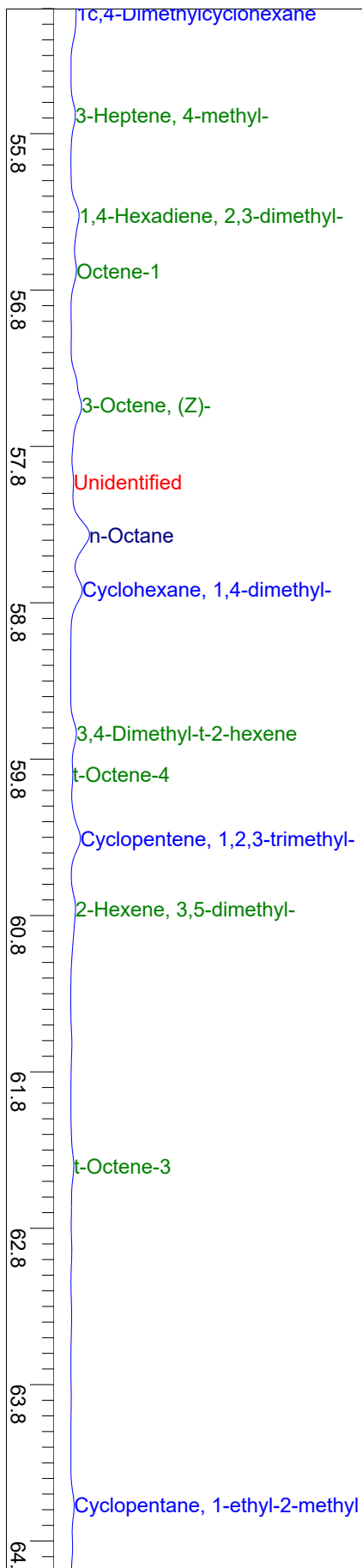


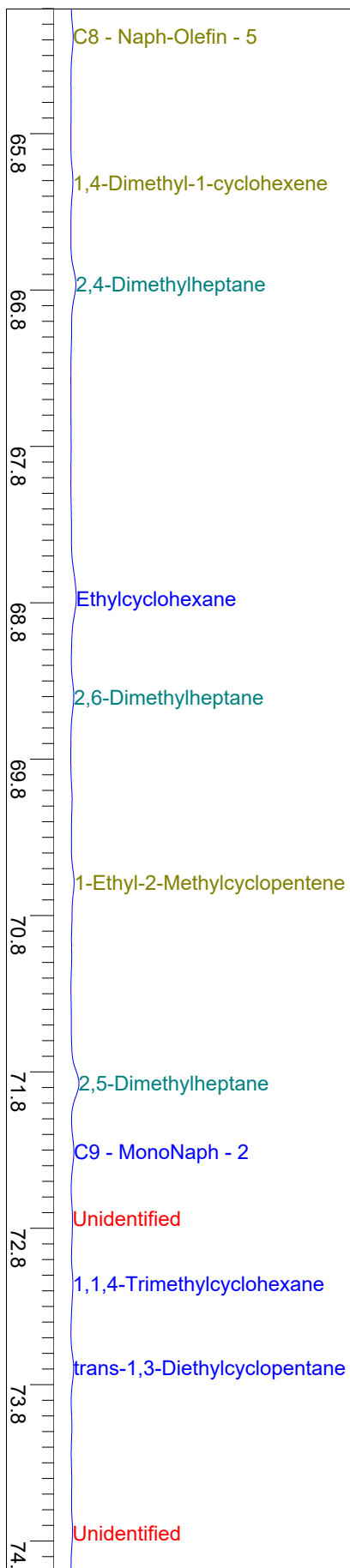


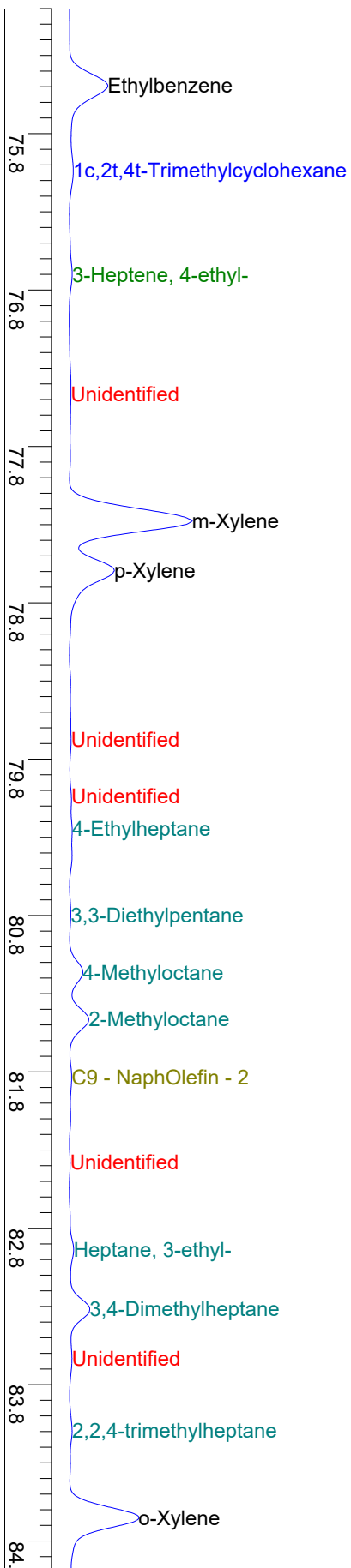


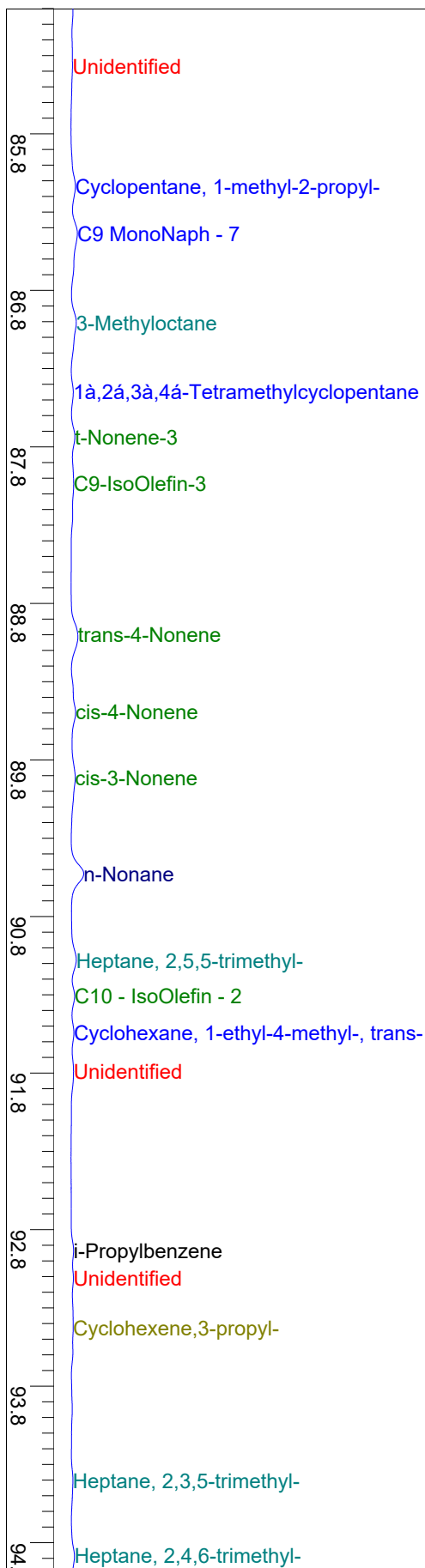


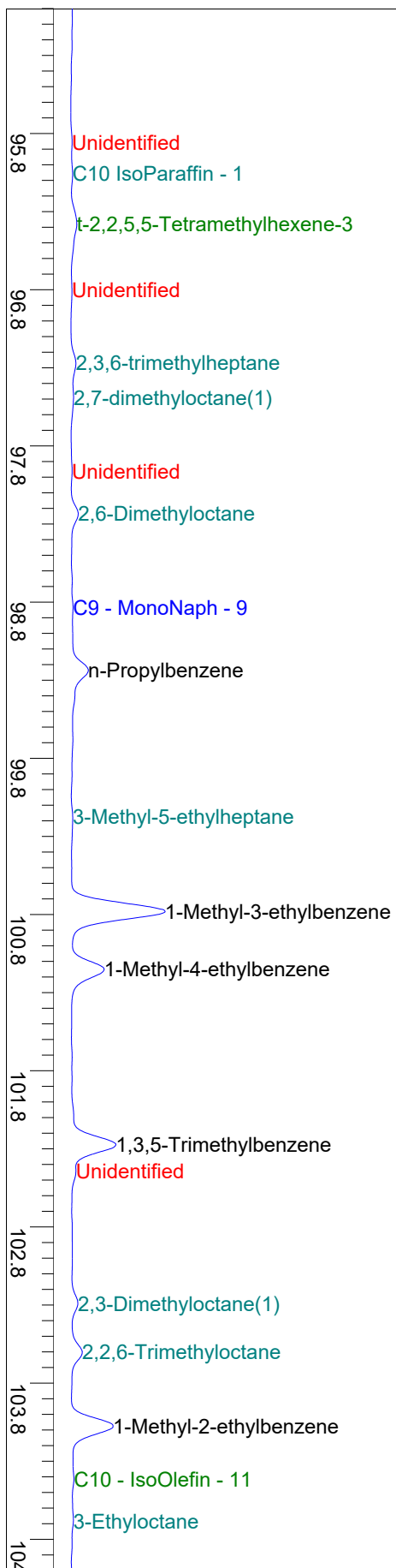


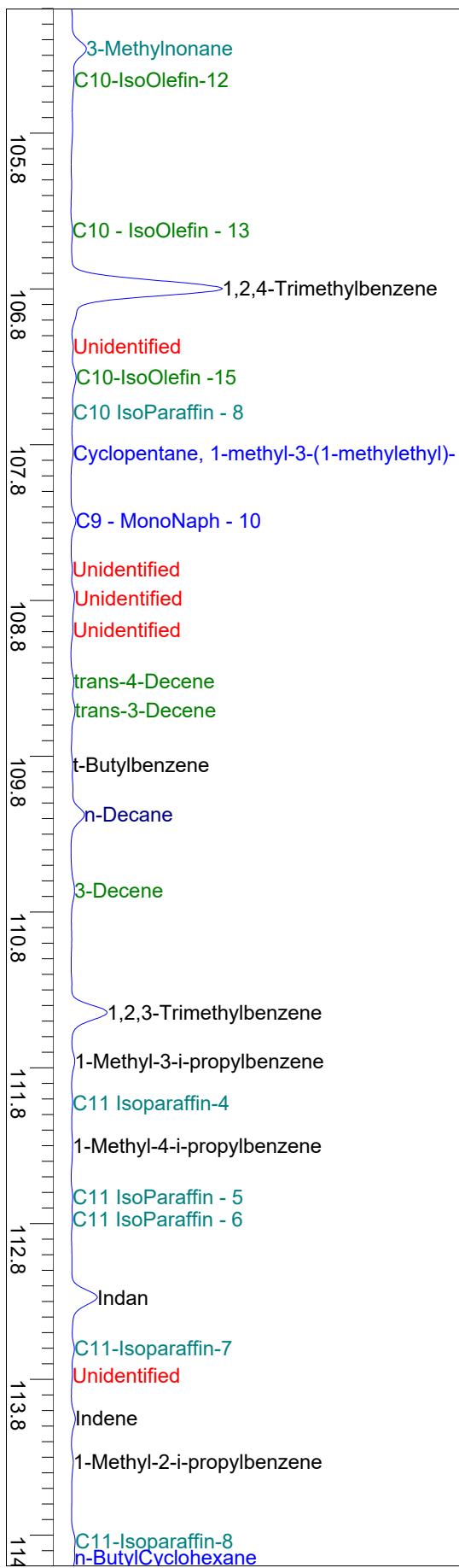


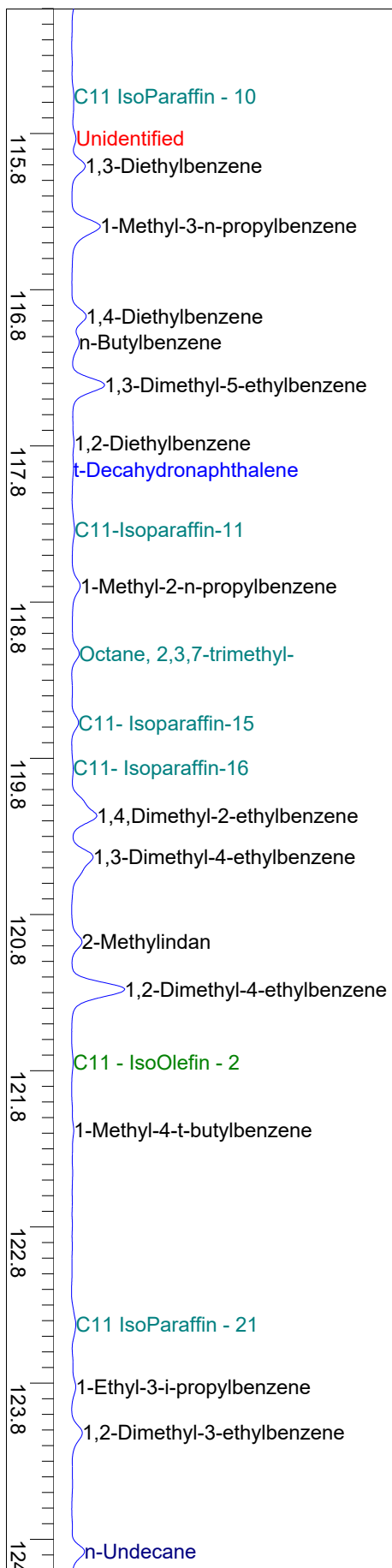


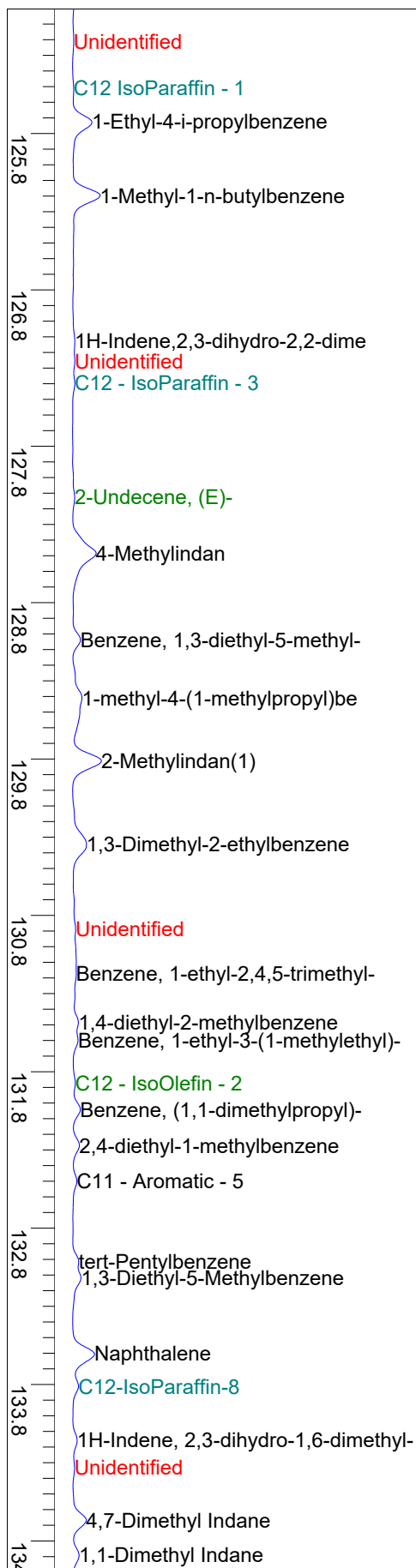


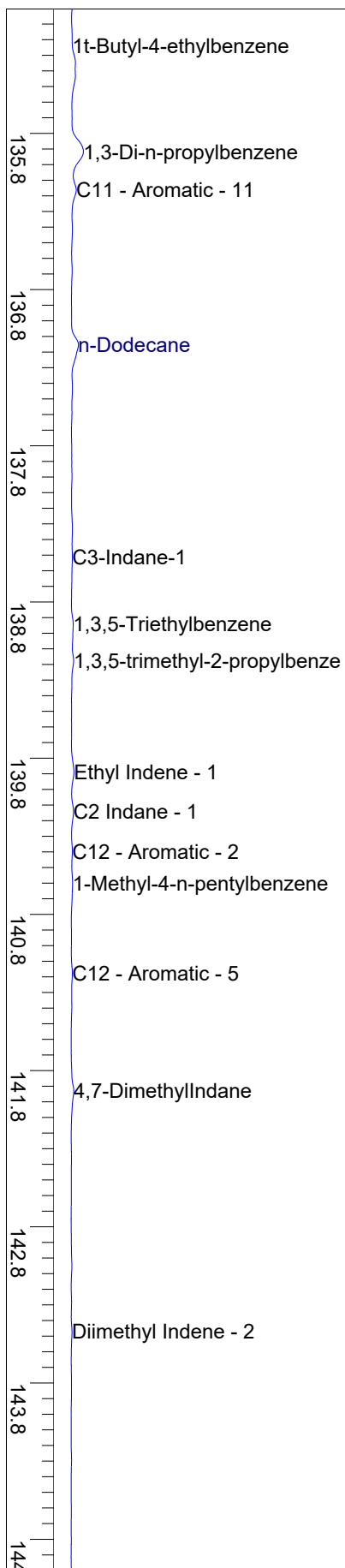












2-Methylnaphthalene

