

Sample File Name: M:\ExtendedGas Results\CDF\2012100109-002AAdat-Detector 1.cdf  
 Reference File H:\DHA Application Software\References\2012100109-002A JD\_10042012.DHA  
 Sample Name 2012100109-002A JD

Acquisition Date 10/5/2012 11:50  
 Analysis Date 10/5/2012 15:22

ISTD Name	ISTD Amount	Sample Weight	Sample Density
	1	1	1
Group Type	Total Mass%	Total Vol%	Total Mol%
Paraffins	12.8575	12.9487	11.4481
Iso-Paraffins	84.9061	85.0333	85.1499
Olefins	0	0	0
Napthenes	0.2824	0.2953	0.5636
Aromatics	1.8822	1.6478	2.801
Total C30+	0.0718	0.075	0.0375
Total Unknown	0	0	0
Total Oxygen	0	0	0
Sample Total	100	100	100

Compound	Percent Off		Oxygen	Volume%			
	BPC Mass%	BPF Mass%		Napthene:	Aromatics	Unknowr	Total
Carbon	Paraffins	I-Paraffins	Olefins				
C1	0	0	0	0	0	0	0
C2	0	0	0	0	0	0	0
C3	0	0	0	0	0	0	0
C4	0	0.00773	0	0	0	0	0.00773
C5	0.00693	0.02102	0	0	0	0	0.02794
C6	0.00904	0.05251	0	0.0219	0	0	0.08344
C7	0	0.05723	0	0.06493	0	0	0.12216
C8	0.02453	0.03365	0	0.11741	0	0	0.17558
C9	0	0.08341	0	0.0256	0.01103	0	0.12005
C10	0	0.04675	0	0.04329	0.31316	0	0.4032
C11	0	0.05505	0	0	0.77285	0	0.8279
C12	0.10479	0.69638	0	0.00926	0.78516	0	1.59561
C13	0.3765	2.55587	0	0	0	0	2.93237
C14	0.79831	7.29445	0	0	0	0	8.09276
C15	1.57992	13.0841	0	0	0	0	14.664
C16	1.61554	13.64409	0	0	0	0	15.2596
C17	1.55909	12.2945	0	0	0	0	13.8536
C18	1.20175	11.12339	0	0	0	0	12.3252
C19	1.50822	7.84104	0	0	0	0	9.34925
C20	0.9379	5.39018	0	0	0	0	6.32808
C21	0.62258	4.44661	0	0	0	0	5.06918
C22	0.63652	2.72109	0	0	0	0	3.35762
C23	0.39122	1.3002	0	0	0	0	1.69142
C24	0.37304	1.00003	0	0	0	0	1.37308
C25	0.29689	0.70693	0	0	0	0	1.00381
C26	0.25637	0.32872	0	0	0	0	0.5851
C27	0.21923	0.05071	0	0	0	0	0.26994
C28	0.17165	0.07049	0	0	0	0	0.24214
C29	0.16748	0	0	0	0	0	0.16748
C30	0	0	0	0	0	0	0

Carbon	Paraffins	I-Paraffins	Olefins	Napthene: Aromatics			Unknowr	Total
C1		0	0	0	0	0	0	0
C2		0	0	0	0	0	0	0
C3		0	0	0	0	0	0	0
C4		0	0.01123	0	0	0	0	0.01123
C5	0.00896	0.02747		0	0	0	0	0.03642
C6	0.0111	0.06475		0	0.02322	0	0	0.09907
C7	0	0.06747		0	0.06929	0	0	0.13675
C8	0.02827	0.03803		0	0.12327	0	0	0.18958
C9	0	0.09489		0	0.02685	0.00999	0	0.13172
C10	0	0.05149		0	0.04325	0.27768	0	0.37242
C11	0	0.06024		0	0	0.64563	0	0.70587
C12	0.11269	0.71252		0	0.00938	0.71448	0	1.54906
C13	0.40305	2.27617		0	0	0	0	2.67922
C14	0.84743	7.80872		0	0	0	0	8.65614
C15	1.25422	13.88904		0	0	0	0	15.1433
C16	1.69164	10.83137		0	0	0	0	12.523
C17	1.62267	12.87365		0	0	0	0	14.4963
C18	1.2527	11.57702		0	0	0	0	12.8297
C19	1.57094	8.17341		0	0	0	0	9.74434
C20	0.96303	5.61433		0	0	0	0	6.57735
C21	0.63676	4.56574		0	0	0	0	5.20249
C22	0.6488	2.78306		0	0	0	0	3.43186
C23	0.39752	1.32528		0	0	0	0	1.7228
C24	0.37801	1.01613		0	0	0	0	1.39413
C25	0.3005	0.71633		0	0	0	0	1.01683
C26	0.25949	0.33272		0	0	0	0	0.59221
C27	0.22052	0.05132		0	0	0	0	0.27185
C28	0.17266	0.07091		0	0	0	0	0.24357
C29	0.16778	0		0	0	0	0	0.16778
C30	0	0		0	0	0	0	0
Carbon	Paraffins	I-Paraffins	Olefins	Napthene: Aromatics			Unknowr	Total
C1		0	0	0	0	0	0	0
C2		0	0	0	0	0	0	0
C3		0	0	0	0	0	0	0
C4		0	0.02958	0	0	0	0	0.02958
C5	0.02135	0.06478		0	0	0	0	0.08613
C6	0.02332	0.13551		0	0.05786	0	0	0.21668
C7	0	0.12701		0	0.14706	0	0	0.27406
C8	0.04776	0.0655		0	0.23268	0	0	0.34594
C9	0	0.14463		0	0.0451	0.02041	0	0.21014
C10	0	0.07306		0	0.06864	0.52649	0	0.66819
C11	0	0.07833		0	0	1.17806	0	1.25639
C12	0.13682	0.94487		0	0.01224	1.07605	0	2.16998
C13	0.45414	3.64406		0	0	0	0	4.0982
C14	0.89489	8.79872		0	0	0	0	9.69361
C15	1.71395	14.66701		0	0	0	0	16.381
C16	1.58658	14.80158		0	0	0	0	16.3882
C17	1.44182	12.07413		0	0	0	0	13.516
C18	1.05009	10.28669		0	0	0	0	11.3368

C19	1.24907	6.85151	0	0	0	0	8.10058
C20	0.73818	4.46404	0	0	0	0	5.20222
C21	0.46683	3.49974	0	0	0	0	3.96656
C22	0.45574	2.04035	0	0	0	0	2.49609
C23	0.268	0.93092	0	0	0	0	1.19892
C24	0.24496	0.68506	0	0	0	0	0.93002
C25	0.18721	0.46421	0	0	0	0	0.65142
C26	0.1541	0.20728	0	0	0	0	0.36137
C27	0.12697	0.03048	0	0	0	0	0.15745
C28	0.09591	0.04083	0	0	0	0	0.13674
C29	0.09041	0	0	0	0	0	0.09041
C30	0	0	0	0	0	0	0

MSA Mass%    MSA Volume%  
0.958            0.8547  
Average Mole    222.3911  
Relative Densi    0.8097  
Vapor Pressur    0.0237  
Octane Numb      89.8713  
Percent Carbo    85.0194  
Percent Hydro    14.9806  
Bromine Num      0

Minutes	Index	Group	Component	Mass %	Volume %	Mol %
8.003	362.05	I4	i-butane	0.008	0.011	0.03
9.627	473.54	I5	i-pentane	0.021	0.027	0.065
10.317	500	P5	n-pentane	0.007	0.009	0.021
11.627	536.2	I6	2,2-dimethylbutane	0.013	0.017	0.034
13.083	565.57	I6	2,3-dimethylbutane	0.015	0.018	0.038
13.303	569.36	I6	2-methylpentane	0.014	0.018	0.036
14.207	583.62	I6	3-methylpentane	0.01	0.013	0.027
15.41	600	P6	n-hexane	0.009	0.011	0.023
17.413	626.64	I7	2,2-dimethylpentane	0.007	0.008	0.015
17.633	629.24	N6	methylcyclopentane	0.011	0.012	0.029
17.977	633.19	I7	2,4-dimethylpentane	0.011	0.013	0.023
18.473	638.69	I7	2,2,3-trimethylbutane	0.006	0.007	0.014
20.86	662.13	N6	cyclohexane	0.011	0.012	0.029
22.047	672.3	I7	2,3-dimethylpentane	0.014	0.017	0.032
22.36	674.85	N7	1,1-dimethylcyclopentane	0.013	0.014	0.03
22.853	678.76	I7	3-methylhexane	0.01	0.012	0.023
23.587	684.35	N7	1c,3-dimethylcyclopentane	0.01	0.011	0.023
23.913	686.76	N7	1t,3-dimethylcyclopentane	0.011	0.012	0.025
24.23	689.05	I7	3-ethylpentane	0.009	0.011	0.021
28.36	721.75	N7	methylcyclohexane	0.03	0.032	0.068
28.783	725.13	N8	1,1,3-trimethylcyclopentane	0.019	0.02	0.037
29.943	734.06	I8	2,2,3-trimethylpentane	0.006	0.007	0.011
30.383	737.33	I8	3,3-dimethylhexane	0.008	0.009	0.015
31.14	742.81	N8	1t,2c,3-trimethylcyclopentane	0.013	0.013	0.025
31.333	744.18	I8	2,3,4-trimethylpentane	0.006	0.007	0.012
32.157	749.9	I8	I1	0.014	0.016	0.027
34.137	762.93	N8	1,1,2-trimethylcyclopentane	0.009	0.01	0.018
36.323	776.24	N8	1,1-dimethylcyclohexane	0.041	0.042	0.08

36.623	777.99 I9	2,2,5-trimethylhexane	0.026	0.03	0.045
37.47	782.83 N8	3c-ethylmethylcyclopentane	0.009	0.009	0.017
38.613	789.16 N8	2t-ethylmethylcyclopentane	0.007	0.007	0.013
39.417	793.47 N8	1t,2-dimethylcyclohexane	0.021	0.022	0.042
40.673	800 P8	n-octane	0.025	0.028	0.048
45.06	824.42 I9	2,3,5-trimethylhexane	0.009	0.011	0.016
46.13	829.95 I9	2,2-dimethylheptane	0.029	0.034	0.051
47.283	835.74 N9	1,1,4-trimethylcyclohexane	0.026	0.027	0.045
47.807	838.31 I9	2,4-dimethylheptane	0.019	0.021	0.032
67.347	933.06 I10	2,5-dimethyloctane	0.023	0.026	0.036
73.837	974.45 I10	3-ethyloctane	0.008	0.009	0.013
75.637	985.22 N10	i-butylcyclohexane	0.008	0.008	0.013
76.127	988.1 I10	I22	0.015	0.017	0.024
78.807	1006.46 A9	1,2,3-trimethylbenzene	0.011	0.01	0.02
80.31	1021.9 N10	sec-butylcyclohexane	0.035	0.035	0.056
80.68	1025.66 I11	I30	0.02	0.022	0.028
86.107	1078.62 I11	I41	0.021	0.023	0.03
86.243	1079.9 A10	1,3-dimethyl-2-ethylbenzene	0.029	0.026	0.047
86.583	1083.1 I11	I42	0.014	0.016	0.02
87.297	1089.74 A12	1,3-di-n-propylbenzene	0.012	0.011	0.017
87.487	1091.51 A11	1,4-methyl-t-butylbenzene	0.015	0.014	0.023
87.693	1093.42 A10	1,2-dimethyl-3-ethylbenzene	0.031	0.028	0.051
88.187	1097.96 A11	1,2-ethyl-i-propylbenzene	0.047	0.043	0.071
88.547	1101.63 A11	1,4-ethyl-i-propylbenzene	0.005	0.005	0.008
88.897	1105.78 A10	1,2,4,5-tetramethylbenzene	0.017	0.015	0.028
89.217	1109.55 A10	1,2,3,5-tetramethylbenzene	0.03	0.028	0.05
89.333	1110.93 I12	C12-Iso-Paraffin	0.042	0.038	0.069
89.473	1112.57 I12	C12-Iso-Paraffin	0.015	0.013	0.024
89.803	1116.44 A11	1,2-methyl-t-butylbenzene	0.065	0.059	0.097
90.253	1121.68 I12	C12-Iso-Paraffin	0.04	0.037	0.06
90.87	1128.82 A10	5-methylindan	0.045	0.041	0.076
91.023	1130.59 I12	I44	0.031	0.033	0.04
91.203	1132.66 A10	4-methylindan	0.061	0.056	0.103
91.417	1135.11 A11	1,2-ethyl-n-propylbenzene	0.025	0.023	0.037
91.633	1137.59 A10	2-methylindan	0.038	0.034	0.065
92.093	1142.84 A12	1,3-di-i-propylbenzene	0.009	0.008	0.012
92.35	1145.75 A11	s-pentylbenzene	0.021	0.019	0.031
92.687	1149.56 A11	n-pentylbenzene	0.069	0.063	0.104
92.81	1150.96 N12	1t-M-2-(4-MP)cyclopentane	0.009	0.009	0.012
93.017	1153.29 A12	1,2-di-i-propylbenzene	0.04	0.036	0.054
93.937	1163.58 A10	tetrahydronaphthalene	0.017	0.014	0.029
94.107	1165.47 A10	naphthalene	0.045	0.035	0.078
94.533	1170.2 A12	1-t-butyl-3,5-dimethylbenzene	0.058	0.053	0.08
94.617	1171.12 I12	C12-Iso-Paraffin	0.035	0.032	0.048
94.843	1173.62 A12	1,4-ethyl-t-butylbenzene	0.037	0.034	0.051
95.25	1178.09 I12	I45	0.081	0.087	0.106
95.427	1180.03 I12	I46	0.017	0.018	0.022
95.7	1183.02 I12	C12-Iso-Paraffin	0.146	0.157	0.191
95.887	1185.05 I12	I47	0.065	0.07	0.085
96.153	1187.95 I12	I48	0.137	0.147	0.179

96.39	1190.51 A12	A5	0.064	0.058	0.088
96.587	1192.64 A12	A6	0.146	0.133	0.201
97.04	1197.53 I12	C12-Iso-Paraffin	0.088	0.08	0.12
97.27	1200 P12	n-dodecane	0.105	0.113	0.137
97.413	1201.95 I13	C13-Iso-Paraffin	0.1	0.107	0.13
97.893	1208.49 I13	C13-Iso-Paraffin	0.111	0.119	0.145
98.107	1211.39 I13	C13-Iso-Paraffin	0.029	0.031	0.037
98.327	1214.37 I13	C13-Iso-Paraffin	0.045	0.048	0.058
98.547	1217.34 A12	1,3,5-triethylbenzene	0.128	0.116	0.175
98.67	1219 I13	C13-Iso-Paraffin	0.038	0.034	0.052
99.053	1224.16 I13	C13-Iso-Paraffin	0.158	0.144	0.217
99.223	1226.44 I13	C13-Iso-Paraffin	0.07	0.064	0.096
99.48	1229.87 A12	1,2,4-triethylbenzene	0.106	0.097	0.146
99.68	1232.54 I13	C13-Iso-Paraffin	0.017	0.016	0.024
100.36	1241.56 A12	1,4-methyl-n-pentylbenzene	0.118	0.108	0.162
100.447	1242.71 I13	C13-Iso-Paraffin	0.045	0.041	0.061
100.63	1245.13 I13	C13-Iso-Paraffin	0.019	0.017	0.025
100.81	1247.5 I13	C13-Iso-Paraffin	0.035	0.032	0.049
101.137	1251.8 I13	C13-Iso-Paraffin	0.024	0.022	0.033
101.337	1254.42 I13	C13-Iso-Paraffin	0.129	0.117	0.176
101.423	1255.55 A12	n-hexylbenzene	0.066	0.06	0.09
101.587	1257.69 I13	C13-Iso-Paraffin	0.107	0.097	0.147
101.803	1260.51 I13	C13-Iso-Paraffin	0.051	0.047	0.07
101.94	1262.29 I13	C13-Iso-Paraffin	0.106	0.096	0.145
102.157	1265.11 I13	C13-Iso-Paraffin	0.105	0.095	0.143
102.283	1266.75 I13	C13-Iso-Paraffin	0.276	0.251	0.378
102.52	1269.81 I13	I50	0.105	0.113	0.127
102.777	1273.13 A11	1,2,3,4,5-pentamethylbenzene	0.175	0.142	0.262
102.92	1274.97 I13	C13-Iso-Paraffin	0.068	0.055	0.102
103.11	1277.42 A11	2-methylnaphthalene	0.246	0.195	0.382
103.303	1279.9 A11	1-methylnaphthalene	0.105	0.083	0.163
103.393	1281.05 I13	C13-Iso-Paraffin	0.152	0.12	0.235
103.623	1284 I13	C13-Iso-Paraffin	0.098	0.078	0.152
103.887	1287.36 I13	C13-Iso-Paraffin	0.331	0.263	0.514
104.253	1292.02 I13	C13-Iso-Paraffin	0.176	0.139	0.273
104.36	1293.37 I13	C13-Iso-Paraffin	0.054	0.042	0.083
104.52	1295.4 I13	C13-Iso-Paraffin	0.111	0.088	0.172
104.883	1300 P13	n-tridecane	0.377	0.403	0.454
105.047	1302.44 I14	C14-Iso-Paraffin	0.142	0.153	0.172
105.18	1304.44 I14	C14-Iso-Paraffin	0.031	0.033	0.037
105.307	1306.33 I14	C14-Iso-Paraffin	0.082	0.088	0.099
105.41	1307.87 I14	C14-Iso-Paraffin	0.145	0.155	0.175
105.633	1311.2 I14	C14-Iso-Paraffin	0.144	0.154	0.173
105.76	1313.08 I14	C14-Iso-Paraffin	0.083	0.089	0.101
105.86	1314.56 I14	C14-Iso-Paraffin	0.117	0.125	0.141
106.067	1317.63 I14	C14-Iso-Paraffin	0.143	0.154	0.173
106.227	1320 I14	C14-Iso-Paraffin	0.386	0.413	0.465
106.62	1325.8 I14	C14-Iso-Paraffin	0.209	0.224	0.252
106.8	1328.45 I14	C14-Iso-Paraffin	0.09	0.097	0.109
107.027	1331.78 I14	C14-Iso-Paraffin	0.287	0.308	0.347

107.273	1335.39 I14	C14-Iso-Paraffin	0.2	0.214	0.241
107.42	1337.54 I14	C14-Iso-Paraffin	0.071	0.076	0.086
107.523	1339.05 I14	C14-Iso-Paraffin	0.105	0.112	0.126
107.667	1341.14 I14	C14-Iso-Paraffin	0.043	0.046	0.051
107.757	1342.45 I14	C14-Iso-Paraffin	0.03	0.032	0.037
107.877	1344.2 I14	C14-Iso-Paraffin	0.115	0.123	0.139
108.04	1346.57 I14	C14-Iso-Paraffin	0.204	0.219	0.247
108.157	1348.26 I14	C14-Iso-Paraffin	0.093	0.099	0.112
108.307	1350.44 I14	C14-Iso-Paraffin	0.246	0.263	0.297
108.52	1353.52 I14	C14-Iso-Paraffin	0.207	0.222	0.25
108.723	1356.46 I14	C14-Iso-Paraffin	0.182	0.195	0.22
108.887	1358.81 I14	C14-Iso-Paraffin	0.042	0.045	0.05
109.063	1361.36 I14	C14-Iso-Paraffin	0.276	0.295	0.333
109.2	1363.32 I14	C14-Iso-Paraffin	0.242	0.259	0.292
109.403	1366.24 I14	C14-Iso-Paraffin	0.327	0.35	0.394
109.547	1368.29 I14	C14-Iso-Paraffin	0.21	0.225	0.254
109.7	1370.48 I14	C14-Iso-Paraffin	0.14	0.15	0.169
109.877	1373 I14	C14-Iso-Paraffin	0.287	0.307	0.346
110.15	1376.9 I14	C14-Iso-Paraffin	0.188	0.202	0.227
110.433	1380.92 I14	C14-Iso-Paraffin	0.736	0.787	0.887
110.557	1382.67 I14	C14-Iso-Paraffin	0.13	0.139	0.156
110.76	1385.55 I14	C14-Iso-Paraffin	0.341	0.365	0.411
110.873	1387.15 I14	C14-Iso-Paraffin	0.08	0.085	0.096
110.99	1388.8 I14	C14-Iso-Paraffin	0.213	0.228	0.256
111.253	1392.51 I14	C14-Iso-Paraffin	0.315	0.337	0.38
111.393	1394.48 I14	C14-Iso-Paraffin	0.414	0.443	0.499
111.787	1400 P14	C14	0.798	0.847	0.895
111.937	1402.43 I15	C15-Iso-Paraffin	0.287	0.305	0.322
112.253	1407.56 I15	C15-Iso-Paraffin	0.718	0.762	0.805
112.54	1412.19 I15	C15-Iso-Paraffin	0.455	0.483	0.51
112.677	1414.39 I15	C15-Iso-Paraffin	0.29	0.308	0.325
112.837	1416.97 I15	C15-Iso-Paraffin	0.117	0.124	0.131
112.993	1419.49 I15	C15-Iso-Paraffin	0.371	0.394	0.416
113.247	1423.55 I15	C15-Iso-Paraffin	0.266	0.283	0.299
113.41	1426.17 I15	C15-Iso-Paraffin	0.111	0.117	0.124
113.58	1428.88 I15	C15-Iso-Paraffin	0.28	0.297	0.314
113.693	1430.69 I15	C15-Iso-Paraffin	0.295	0.313	0.33
113.89	1433.83 I15	C15-Iso-Paraffin	0.233	0.247	0.261
114.057	1436.48 I15	C15-Iso-Paraffin	0.383	0.406	0.429
114.237	1439.34 I15	C15-Iso-Paraffin	0.752	0.798	0.843
114.447	1442.67 I15	C15-Iso-Paraffin	0.157	0.166	0.176
114.59	1444.94 I15	C15-Iso-Paraffin	0.435	0.462	0.488
115.017	1451.68 I15	C15-Iso-Paraffin	1.015	1.078	1.138
115.257	1455.45 I15	C15-Iso-Paraffin	0.419	0.445	0.47
115.41	1457.86 I15	C15-Iso-Paraffin	0.1	0.106	0.112
115.61	1461 I15	C15-Iso-Paraffin	0.509	0.54	0.57
115.78	1463.66 I15	C15-Iso-Paraffin	0.113	0.12	0.126
115.973	1466.69 I15	C15-Iso-Paraffin	1.409	1.496	1.58
116.373	1472.92 I15	C15-Iso-Paraffin	0.654	0.695	0.733
116.53	1475.36 I15	C15-Iso-Paraffin	0.742	0.788	0.832

116.727	1478.41 I15	C15-Iso-Paraffin	0.246	0.261	0.276
116.89	1480.95 I15	C15-Iso-Paraffin	0.359	0.381	0.402
117.117	1484.45 I15	C15-Iso-Paraffin	0.782	0.83	0.877
117.523	1490.73 I15	C15-Iso-Paraffin	0.71	0.753	0.795
117.693	1493.34 I15	C15-Iso-Paraffin	0.447	0.474	0.501
117.86	1495.9 I15	C15-Iso-Paraffin	0.431	0.458	0.483
118.037	1498.62 P15	C15	1.58	1.254	1.714
118.207	1501.53 I16	C16-Iso-Paraffin	0.373	0.296	0.405
118.37	1504.65 I16	C16-Iso-Paraffin	0.286	0.227	0.31
118.473	1506.63 I16	C16-Iso-Paraffin	0.191	0.151	0.207
118.59	1508.86 I16	C16-Iso-Paraffin	0.282	0.224	0.305
118.723	1511.4 I16	C16-Iso-Paraffin	0.433	0.344	0.47
118.827	1513.37 I16	C16-Iso-Paraffin	0.199	0.158	0.216
118.967	1516.04 I16	C16-Iso-Paraffin	0.579	0.46	0.629
119.12	1518.96 I16	C16-Iso-Paraffin	0.205	0.163	0.222
119.193	1520.35 I16	C16-Iso-Paraffin	0.181	0.143	0.196
119.293	1522.25 I16	C16-Iso-Paraffin	0.379	0.301	0.411
119.45	1525.22 I16	C16-Iso-Paraffin	0.159	0.126	0.173
119.577	1527.62 I16	C16-Iso-Paraffin	0.215	0.17	0.233
119.76	1531.08 I16	C16-Iso-Paraffin	0.352	0.279	0.381
119.873	1533.22 I16	C16-Iso-Paraffin	0.216	0.171	0.234
120.01	1535.8 I16	C16-Iso-Paraffin	0.172	0.137	0.187
120.153	1538.5 I16	C16-Iso-Paraffin	0.502	0.399	0.545
120.377	1542.7 I16	C16-Iso-Paraffin	0.515	0.409	0.559
120.487	1544.77 I16	C16-Iso-Paraffin	0.385	0.305	0.417
120.69	1548.58 I16	C16-Iso-Paraffin	0.396	0.314	0.429
120.797	1550.58 I16	C16-Iso-Paraffin	0.419	0.333	0.454
120.993	1554.26 I16	C16-Iso-Paraffin	0.483	0.383	0.524
121.077	1555.82 I16	C16-Iso-Paraffin	0.507	0.402	0.55
121.19	1557.93 I16	C16-Iso-Paraffin	0.409	0.324	0.443
121.297	1559.92 I16	C16-Iso-Paraffin	0.492	0.39	0.533
121.427	1562.35 I16	C16-Iso-Paraffin	0.256	0.204	0.278
121.57	1565.01 I16	C16-Iso-Paraffin	0.468	0.371	0.508
121.833	1569.9 I16	C16-Iso-Paraffin	1.089	0.865	1.182
121.97	1572.44 I16	C16-Iso-Paraffin	0.855	0.678	0.927
122.213	1576.94 I16	C16-Iso-Paraffin	0.13	0.103	0.141
122.33	1579.1 I16	C16-Iso-Paraffin	0.403	0.32	0.437
122.547	1583.1 I16	C16-Iso-Paraffin	0.338	0.268	0.366
122.67	1585.37 I16	C16-Iso-Paraffin	0.222	0.176	0.241
122.777	1587.33 I16	C16-Iso-Paraffin	0.195	0.155	0.211
123.073	1592.79 I16	C16-Iso-Paraffin	0.841	0.668	0.913
123.23	1595.66 I16	C16-Iso-Paraffin	0.521	0.414	0.566
123.387	1598.53 P16	C16	1.616	1.692	1.587
123.557	1602 I17	C17-Iso-Paraffin	0.328	0.344	0.322
123.637	1603.78 I17	C17-Iso-Paraffin	0.214	0.224	0.21
123.737	1606 I17	C17-Iso-Paraffin	0.168	0.176	0.165
123.843	1608.37 I17	C17-Iso-Paraffin	0.361	0.378	0.354
123.98	1611.4 I17	C17-Iso-Paraffin	0.623	0.653	0.612
124.203	1616.35 I17	C17-Iso-Paraffin	0.567	0.594	0.557
124.363	1619.89 I17	C17-Iso-Paraffin	0.198	0.208	0.195

124.493	1622.77 I17	C17-Iso-Paraffin	0.355	0.372	0.349
124.627	1625.71 I17	C17-Iso-Paraffin	0.272	0.285	0.268
124.783	1629.16 I17	C17-Iso-Paraffin	0.266	0.279	0.262
124.9	1631.73 I17	C17-Iso-Paraffin	0.302	0.316	0.297
125.11	1636.35 I17	C17-Iso-Paraffin	0.431	0.452	0.424
125.293	1640.37 I17	C17-Iso-Paraffin	0.426	0.446	0.418
125.43	1643.37 I17	C17-Iso-Paraffin	0.287	0.3	0.281
125.567	1646.36 I17	C17-Iso-Paraffin	0.619	0.648	0.608
125.747	1650.3 I17	C17-Iso-Paraffin	0.39	0.408	0.383
125.91	1653.86 I17	C17-Iso-Paraffin	1.022	1.07	1.004
126.237	1660.98 I17	C17-Iso-Paraffin	1.031	1.079	1.012
126.433	1665.25 I17	C17-Iso-Paraffin	0.484	0.507	0.476
126.547	1667.72 I17	C17-Iso-Paraffin	0.574	0.601	0.564
126.807	1673.35 I17	C17-Iso-Paraffin	0.524	0.548	0.514
126.927	1675.95 I17	C17-Iso-Paraffin	0.312	0.327	0.307
127.06	1678.83 I17	C17-Iso-Paraffin	0.232	0.243	0.228
127.143	1680.63 I17	C17-Iso-Paraffin	0.17	0.178	0.167
127.423	1686.67 I17	C17-Iso-Paraffin	0.83	0.869	0.815
127.567	1689.76 I17	C17-Iso-Paraffin	0.368	0.386	0.362
127.653	1691.62 I17	C17-Iso-Paraffin	0.343	0.359	0.337
127.92	1697.35 I17	C17-Iso-Paraffin	0.595	0.623	0.584
128.043	1700 P17	C17	1.559	1.623	1.442
128.183	1703.42 I18	C18-Iso-Paraffin	0.344	0.358	0.318
128.383	1708.32 I18	C18-Iso-Paraffin	0.441	0.459	0.408
128.507	1711.33 I18	C18-Iso-Paraffin	1.341	1.395	1.24
128.647	1714.74 I18	C18-Iso-Paraffin	0.333	0.346	0.308
128.747	1717.18 I18	C18-Iso-Paraffin	0.331	0.345	0.306
128.96	1722.38 I18	C18-Iso-Paraffin	0.535	0.556	0.494
129.057	1724.73 I18	C18-Iso-Paraffin	0.336	0.35	0.311
129.17	1727.48 I18	C18-Iso-Paraffin	0.279	0.291	0.258
129.367	1732.25 I18	C18-Iso-Paraffin	0.637	0.663	0.589
129.613	1738.22 I18	C18-Iso-Paraffin	0.423	0.441	0.392
129.75	1741.53 I18	C18-Iso-Paraffin	0.164	0.17	0.151
129.937	1746.04 I18	C18-Iso-Paraffin	0.416	0.433	0.385
130.033	1748.37 I18	C18-Iso-Paraffin	0.333	0.346	0.308
130.113	1750.3 I18	C18-Iso-Paraffin	0.424	0.441	0.392
130.27	1754.07 I18	C18-Iso-Paraffin	0.286	0.297	0.264
130.443	1758.24 I18	C18-Iso-Paraffin	0.571	0.594	0.528
130.537	1760.48 I18	C18-Iso-Paraffin	0.305	0.317	0.282
130.63	1762.72 I18	C18-Iso-Paraffin	0.208	0.216	0.192
130.773	1766.16 I18	C18-Iso-Paraffin	0.507	0.528	0.469
130.907	1769.35 I18	C18-Iso-Paraffin	0.346	0.361	0.32
131.093	1773.82 I18	C18-Iso-Paraffin	0.429	0.446	0.396
131.233	1777.16 I18	C18-Iso-Paraffin	0.168	0.175	0.155
131.31	1778.99 I18	C18-Iso-Paraffin	0.244	0.254	0.225
131.493	1783.36 I18	C18-Iso-Paraffin	0.454	0.473	0.42
131.58	1785.43 I18	C18-Iso-Paraffin	0.161	0.167	0.149
131.777	1790.11 I18	C18-Iso-Paraffin	0.75	0.781	0.694
132.073	1797.15 I18	C18-Iso-Paraffin	0.358	0.373	0.332
132.193	1800 P18	C18	1.202	1.253	1.05



132.307	1802.99 I19	C19-Iso-Paraffin	0.272	0.284	0.238
132.437	1806.42 I19	C19-Iso-Paraffin	0.288	0.3	0.251
132.64	1811.77 I19	C19-Iso-Paraffin	0.477	0.497	0.417
132.767	1815.11 I19	C19-Iso-Paraffin	0.926	0.965	0.809
133.053	1822.64 I19	C19-Iso-Paraffin	0.429	0.447	0.375
133.153	1825.26 I19	C19-Iso-Paraffin	0.58	0.605	0.507
133.447	1832.94 I19	C19-Iso-Paraffin	0.238	0.248	0.208
133.607	1837.12 I19	C19-Iso-Paraffin	0.313	0.326	0.274
133.733	1840.43 I19	C19-Iso-Paraffin	0.335	0.35	0.293
133.857	1843.65 I19	C19-Iso-Paraffin	0.207	0.216	0.181
133.937	1845.73 I19	C19-Iso-Paraffin	0.175	0.182	0.153
134.05	1848.68 I19	C19-Iso-Paraffin	0.263	0.275	0.23
134.213	1852.93 I19	C19-Iso-Paraffin	0.386	0.403	0.338
134.49	1860.11 I19	C19-Iso-Paraffin	0.494	0.515	0.431
134.667	1864.69 I19	C19-Iso-Paraffin	0.396	0.413	0.346
134.86	1869.7 I19	C19-Iso-Paraffin	0.362	0.378	0.317
134.97	1872.54 I19	C19-Iso-Paraffin	0.254	0.265	0.222
135.177	1877.88 I19	C19-Iso-Paraffin	0.287	0.299	0.251
135.333	1881.92 I19	C19-Iso-Paraffin	0.5	0.521	0.437
135.53	1886.98 I19	C19-Iso-Paraffin	0.238	0.248	0.208
135.683	1890.93 I19	C19-Iso-Paraffin	0.419	0.437	0.366
135.963	1898.11 P19	C19	1.508	1.571	1.249
136.193	1904.66 I20	C20-Iso-Paraffin	0.384	0.4	0.318
136.31	1908.12 I20	C20-Iso-Paraffin	0.194	0.202	0.161
136.41	1911.09 I20	C20-Iso-Paraffin	0.188	0.196	0.156
136.527	1914.55 I20	C20-Iso-Paraffin	0.34	0.354	0.281
136.66	1918.51 I20	C20-Iso-Paraffin	0.251	0.262	0.208
136.78	1922.06 I20	C20-Iso-Paraffin	0.18	0.188	0.149
136.893	1925.41 I20	C20-Iso-Paraffin	0.154	0.161	0.128
137.11	1931.81 I20	C20-Iso-Paraffin	0.378	0.394	0.313
137.33	1938.3 I20	C20-Iso-Paraffin	0.284	0.296	0.235
137.447	1941.74 I20	C20-Iso-Paraffin	0.269	0.28	0.222
137.647	1947.63 I20	C20-Iso-Paraffin	0.468	0.487	0.388
137.823	1952.82 I20	C20-Iso-Paraffin	0.103	0.107	0.085
138.05	1959.47 I20	C20-Iso-Paraffin	0.292	0.304	0.242
138.223	1964.54 I20	C20-Iso-Paraffin	0.407	0.424	0.337
138.383	1969.22 I20	C20-Iso-Paraffin	0.176	0.183	0.146
138.573	1974.78 I20	C20-Iso-Paraffin	0.523	0.544	0.433
138.793	1981.19 I20	C20-Iso-Paraffin	0.196	0.205	0.163
138.943	1985.56 I20	C20-Iso-Paraffin	0.301	0.313	0.249
139.067	1989.15 I20	C20-Iso-Paraffin	0.303	0.315	0.251
139.44	2000 P20	C20	0.938	0.963	0.738
139.53	2002.74 I21	C21-Iso-Paraffin	0.251	0.258	0.198
139.733	2008.93 I21	C21-Iso-Paraffin	0.344	0.353	0.27
139.86	2012.78 I21	C21-Iso-Paraffin	0.184	0.189	0.145
140.043	2018.35 I21	C21-Iso-Paraffin	0.217	0.223	0.171
140.227	2023.92 I21	C21-Iso-Paraffin	0.25	0.257	0.197
140.357	2027.85 I21	C21-Iso-Paraffin	0.22	0.225	0.173
140.53	2033.1 I21	C21-Iso-Paraffin	0.05	0.051	0.039
140.657	2036.93 I21	C21-Iso-Paraffin	0.266	0.273	0.209

140.787	2040.86 I21	C21-Iso-Paraffin	0.13	0.133	0.102
140.897	2044.18 I21	C21-Iso-Paraffin	0.221	0.227	0.174
140.993	2047.09 I21	C21-Iso-Paraffin	0.159	0.163	0.125
141.07	2049.4 I21	C21-Iso-Paraffin	0.238	0.245	0.187
141.32	2056.93 I21	C21-Iso-Paraffin	0.1	0.103	0.079
141.39	2059.03 I21	C21-Iso-Paraffin	0.172	0.177	0.136
141.56	2064.14 I21	C21-Iso-Paraffin	0.141	0.145	0.111
141.663	2067.24 I21	C21-Iso-Paraffin	0.109	0.112	0.086
141.843	2072.63 I21	C21-Iso-Paraffin	0.316	0.325	0.249
141.917	2074.83 I21	C21-Iso-Paraffin	0.135	0.138	0.106
142.093	2080.11 I21	C21-Iso-Paraffin	0.468	0.48	0.368
142.26	2085.09 I21	C21-Iso-Paraffin	0.296	0.304	0.233
142.423	2089.97 I21	C21-Iso-Paraffin	0.109	0.112	0.086
142.513	2092.65 I21	C21-Iso-Paraffin	0.071	0.073	0.056
142.683	2097.71 P21	C21	0.623	0.637	0.467
142.853	2103.16 I22	C22-Iso-Paraffin	0.118	0.121	0.089
143.02	2108.81 I22	C22-Iso-Paraffin	0.11	0.113	0.083
143.173	2114 I22	C22-Iso-Paraffin	0.115	0.118	0.087
143.363	2120.42 I22	C22-Iso-Paraffin	0.152	0.155	0.114
143.657	2130.31 I22	C22-Iso-Paraffin	0.14	0.143	0.105
143.95	2140.19 I22	C22-Iso-Paraffin	0.555	0.568	0.416
144.16	2147.25 I22	C22-Iso-Paraffin	0.132	0.135	0.099
144.313	2152.39 I22	C22-Iso-Paraffin	0.085	0.087	0.063
144.41	2155.63 I22	C22-Iso-Paraffin	0.097	0.1	0.073
144.66	2164 I22	C22-Iso-Paraffin	0.321	0.328	0.24
144.82	2169.35 I22	C22-Iso-Paraffin	0.153	0.157	0.115
145.013	2175.81 I22	C22-Iso-Paraffin	0.182	0.186	0.137
145.13	2179.7 I22	C22-Iso-Paraffin	0.093	0.095	0.069
145.263	2184.14 I22	C22-Iso-Paraffin	0.333	0.341	0.25
145.593	2195.12 I22	C22-Iso-Paraffin	0.135	0.138	0.101
145.74	2200 P22	C22	0.637	0.649	0.456
145.937	2206.24 I23	C23-Iso-Paraffin	0.066	0.068	0.048
146.107	2211.63 I23	C23-Iso-Paraffin	0.125	0.127	0.089
146.3	2217.75 I23	C23-Iso-Paraffin	0.1	0.101	0.071
146.577	2226.5 I23	C23-Iso-Paraffin	0.348	0.355	0.249
146.903	2236.8 I23	C23-Iso-Paraffin	0.078	0.079	0.056
147.063	2241.84 I23	C23-Iso-Paraffin	0.225	0.23	0.161
147.353	2250.96 I23	C23-Iso-Paraffin	0.027	0.028	0.02
147.54	2256.82 I23	C23-Iso-Paraffin	0.088	0.09	0.063
147.707	2262.04 I23	C23-Iso-Paraffin	0.062	0.063	0.044
148.013	2271.64 I23	C23-Iso-Paraffin	0.03	0.03	0.021
148.167	2276.43 I23	C23-Iso-Paraffin	0.045	0.046	0.032
148.453	2285.37 I23	C23-Iso-Paraffin	0.056	0.057	0.04
148.55	2288.39 I23	C23-Iso-Paraffin	0.05	0.051	0.035
148.84	2297.41 P23	C23	0.391	0.398	0.268
149.047	2303.62 I24	C24-Iso-Paraffin	0.062	0.063	0.043
149.243	2309.38 I24	C24-Iso-Paraffin	0.075	0.076	0.051
149.53	2317.77 I24	C24-Iso-Paraffin	0.079	0.081	0.054
149.653	2321.38 I24	C24-Iso-Paraffin	0.148	0.151	0.102
149.8	2325.66 I24	C24-Iso-Paraffin	0.027	0.027	0.018

149.927	2329.35 I24	C24-Iso-Paraffin	0.046	0.047	0.032
150.077	2333.73 I24	C24-Iso-Paraffin	0.093	0.094	0.064
150.27	2339.35 I24	C24-Iso-Paraffin	0.1	0.102	0.068
150.467	2345.07 I24	C24-Iso-Paraffin	0.116	0.118	0.079
150.567	2347.97 I24	C24-Iso-Paraffin	0.029	0.029	0.02
150.82	2355.32 I24	C24-Iso-Paraffin	0.039	0.039	0.027
151.003	2360.63 I24	C24-Iso-Paraffin	0.059	0.06	0.041
151.307	2369.4 I24	C24-Iso-Paraffin	0.056	0.057	0.038
151.613	2378.25 I24	C24-Iso-Paraffin	0.033	0.033	0.023
151.98	2388.8 I24	C24-Iso-Paraffin	0.022	0.023	0.015
152.087	2391.86 I24	C24-Iso-Paraffin	0.015	0.016	0.01
152.267	2397.03 P24	C24	0.373	0.378	0.245
152.67	2407.64 I25	C25-Iso-Paraffin	0.1	0.102	0.066
152.79	2410.69 I25	C25-Iso-Paraffin	0.042	0.042	0.027
152.903	2413.58 I25	C25-Iso-Paraffin	0.021	0.021	0.014
153.08	2418.06 I25	C25-Iso-Paraffin	0.064	0.064	0.042
153.373	2425.5 I25	C25-Iso-Paraffin	0.09	0.092	0.059
153.637	2432.17 I25	C25-Iso-Paraffin	0.058	0.059	0.038
154.553	2455.28 I25	C25-Iso-Paraffin	0.039	0.039	0.025
154.743	2460.05 I25	C25-Iso-Paraffin	0.073	0.074	0.048
154.897	2463.9 I25	C25-Iso-Paraffin	0.045	0.046	0.03
155.127	2469.66 I25	C25-Iso-Paraffin	0.05	0.051	0.033
155.513	2479.33 I25	C25-Iso-Paraffin	0.083	0.084	0.054
156.01	2491.71 I25	C25-Iso-Paraffin	0.043	0.044	0.028
156.22	2496.93 P25	C25	0.297	0.3	0.187
156.513	2503.66 I26	C26-Iso-Paraffin	0.06	0.061	0.038
156.96	2513.29 I26	C26-Iso-Paraffin	0.092	0.093	0.058
157.777	2530.8 I26	C26-Iso-Paraffin	0.033	0.034	0.021
159.123	2559.48 I26	C26-Iso-Paraffin	0.074	0.075	0.046
159.66	2570.83 I26	C26-Iso-Paraffin	0.07	0.071	0.044
160.897	2596.85 P26	C26	0.256	0.259	0.154
165.363	2676.1 I27	C27-Iso-Paraffin	0.051	0.051	0.03
166.55	2696.66 P27	C27	0.219	0.221	0.127
167.483	2710.82 I28	C28-Iso-Paraffin	0.031	0.031	0.018
170.823	2759.05 I28	C28-Iso-Paraffin	0.04	0.04	0.023
173.483	2796.76 P28	C28	0.172	0.173	0.096
182.017	2896.66 P29	C29	0.167	0.168	0.09
192.63	2972.29 +	C30+	0.072	0.075	0.037