



# Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Dec 9, 2019 – 11:41 AM EST

PDB ID : 3J2F  
EMDB ID: : EMD-5508  
Title : Dissecting the in vivo assembly of the 30S ribosomal subunit reveals the role of RimM  
Authors : Guo, Q.; Goto, S.; Chen, Y.; Muto, A.; Himeno, H.; Deng, H.; Lei, J.; Gao, N.  
Deposited on : 2012-09-28  
Resolution : 17.60 Å(reported)  
Based on PDB ID : 3OFA

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report  
for a publicly released PDB/EMDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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MolProbity : 4.02b-467  
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.4

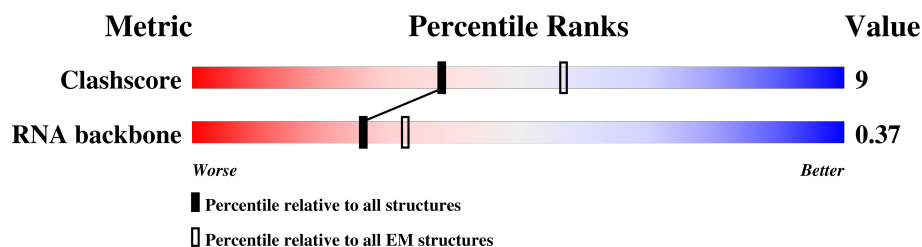
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 17.60 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	136327	1886
RNA backbone	3747	458

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	N	1533	19% 41% 39%

## 2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 49446 atoms, of which 16554 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

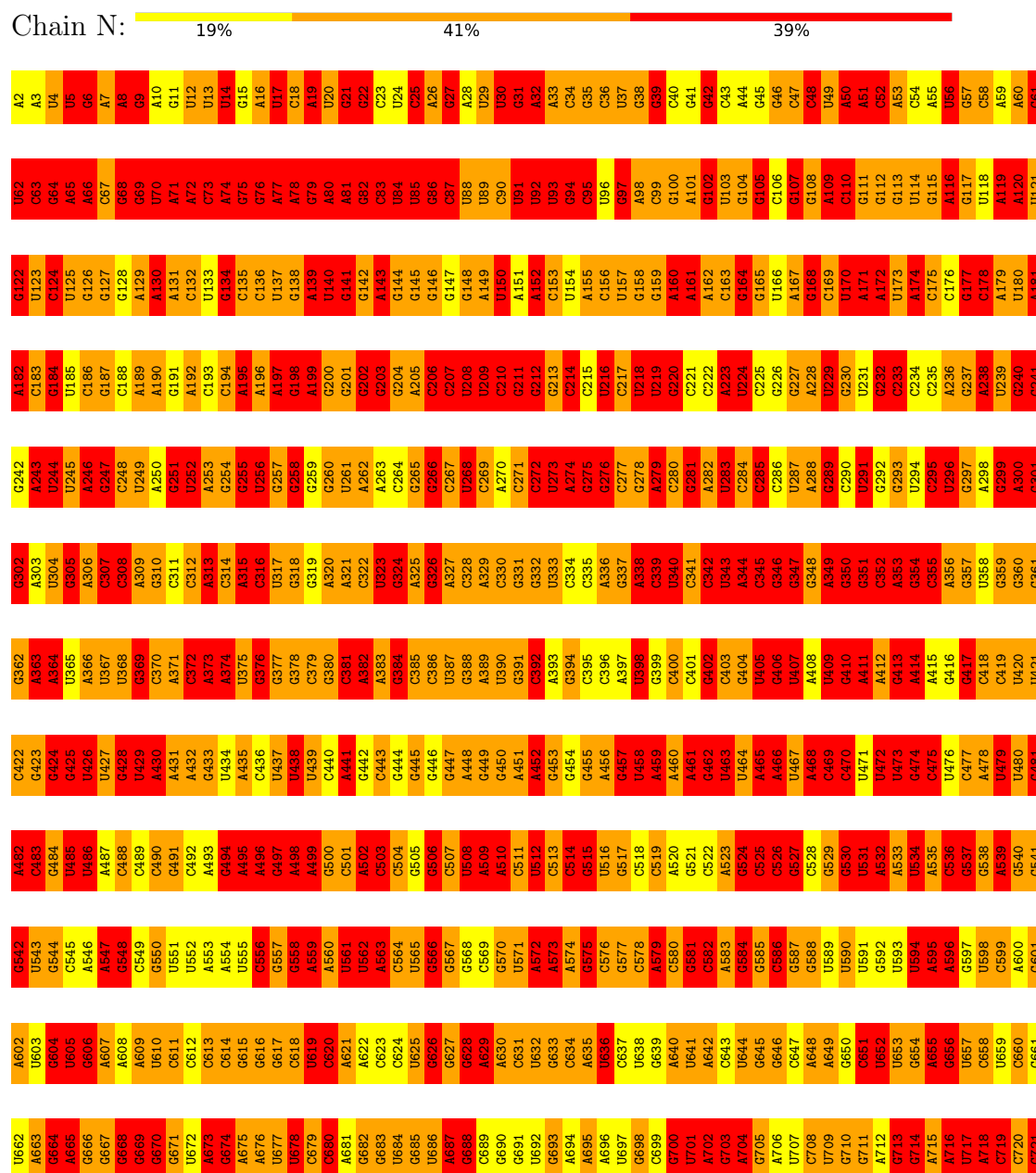
- Molecule 1 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	N	1533	Total	C	H	N	O	P	0	0
			49446	14671	16554	6036	10653	1532		

### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

#### • Molecule 1: 16S rRNA



A1502	G1442	C1382	G1322	C1262	U1202	G1142	A1082	A1022	C982	G902	U842	A782	G722
A1503	C1443	C1383	G1323	C1263	C1203	G1143	U1083	U1023	G983	G903	U843	C783	U723
G1504	U1444	C1384	A1324	C1264	A1204	G1144	G1084	G1024	A984	U904	G844	A784	G724
G1505	U1445	C1385	C1325	C1265	U1205	U1085	U1085	U1025	A985	U905	A845	A785	G725
A1506	A1446	G1386	G1326	C1266	G1206	A1146	U1086	G1026	G986	A906	G846	G786	C726
A1507	A1447	G1387	C1327	C1267	G1207	C1147	G1087	C1027	G987	A907	G847	A787	G727
A1508	C1448	C1388	C1328	G1268	C1208	U1148	U1088	U1028	A988	A908	C848	U788	A728
C1509	C1449	C1389	A1329	A1269	C1209	C1149	G1089	U1029	A989	A909	G849	U789	A729
C1510	U1450	U1390	U1330	G1270	C1210	A1150	U1090	U1030	C970	C910	U850	A790	G730
G1511	U1451	G1391	G1331	A1271	U1211	A1151	U1091	C1031	G971	U911	G851	G791	C731
G1512	C1452	G1392	A1332	C1272	U1212	A1152	A1092	G1032	C972	C912	G852	A792	C732
A1513	U1393	A1333	C1273	C1273	A1213	G1153	A1093	G1033	G973	A913	C853	U793	G733
A1514	G1454	A1394	G1334	A1274	C1214	G1154	U1094	G1034	A974	A914	U854	A794	G734
G1515	G1455	U1335	U1335	A1275	G1215	U1095	U1095	A1035	A975	A915	U855	C795	C735
G1516	A1456	C1396	C1336	G1276	A1216	G1156	C1096	A1036	G976	U916	C856	C796	C736
G1517	G1457	C1397	G1337	C1277	C1217	A1157	C1097	C1037	A977	G917	C857	C797	C737
A1518	G1458	A1398	G1338	G1278	A1218	U1158	C1098	G1038	A978	A918	G858	U798	C738
A1519	G1459	C1399	A1339	G1279	C1219	U1159	G1099	U1039	C979	A919	G859	G799	C739
C1520	C1460	G1400	A1340	A1280	G1220	C1160	C1100	U1040	C980	U920	A860	G800	U740
C1521	G1461	G1401	U1341	C1281	G1221	C1161	A1101	G1041	U981	U921	G861	U801	G741
U1522	C1462	C1402	G1342	C1282	G1222	C1162	A1102	A1042	G982	G922	C862	A802	G742
G1523	U1463	G1403	G1343	U1283	C1223	A1163	G1103	G1043	A983	A923	U863	G803	A743
C1524	U1464	C1404	C1344	C1284	U1224	G1164	G1104	A1044	C984	C924	A864	U804	C744
G1525	A1465	G1405	U1345	A1285	A1225	G1165	A1105	C1045	C985	G925	A865	C805	G745
G1526	C1466	U1406	U1346	U1286	C1226	G1166	G1106	A1046	U986	G926	C866	C806	A746
U1527	C1467	G1347	G1347	A1287	A1227	A1167	C1107	G1047	C987	G927	G867	A807	A747
U1528	A1468	A1408	U1348	A1288	C1228	U1168	G1108	G1048	C988	G928	C868	C808	G748
G1529	C1469	C1409	A1349	A1289	A1229	U1169	C1109	U1049	U989	G929	G869	G809	A749
G1530	U1470	A1410	A1350	G1290	C1230	A1170	A1110	G1050	C990	C930	U870	C810	C750
A1531	U1471	C1411	U1351	U1291	G1231	A1171	A1111	C1051	U991	C931	U871	C811	U751
U1532	U1472	C1412	C1352	G1292	U1232	C1172	G1112	U1052	U992	G932	A872	G812	G752
C1533	G1473	A1413	G1353	C1293	G1233	U1173	G1113	G1053	C993	G933	A873	U813	A753
A1534	U1474	U1414	U1354	C1294	C1234	C1174	C1114	C1054	G994	C934	G874	A814	C754
	G1475	G1415	G1355	U1295	U1235	G1175	U1115	A1055	C995	A935	U875	A815	G755
	A1476	G1416	C1356	C1296	A1236	A1176	U1116	U1056	A996	C936	C876	A816	C756
	U1477	G1417	A1357	G1297	C1237	G1177	A1117	G1057	U997	A937	G877	C817	U757
	U1478	A1418	U1358	U1298	A1238	G1178	U1118	G1058	C998	A938	A878	G818	C758
	C1479	C1359	C1359	A1299	A1239	A1179	C1119	C1059	C999	G939	C879	A819	A759
	A1480	U1420	A1360	G1300	U1240	A1180	C1120	U1060	A1000	G940	C880	U820	G760
	G1481	G1421	G1361	U1301	G1241	G1181	U1121	G1061	C1001	G941	G881	G821	G761
	G1482	G1422	A1362	C1302	G1242	G1182	U1122	U1062	G1002	G942	C882	U822	U762
A1483	A1483	G1423	A1363	C1303	C1243	U1183	U1123	C1063	G1003	U943	C883	G823	G763
C1484	U1424	U1364	G1304	G1304	G1244	G1184	G1124	U1064	A1004	G944	U884	G824	C764
U1425	U1425	G1365	G1305	C1305	C1245	G1185	U1125	U1065	A1005	G945	G885	A825	G765
	G1486	C1366	A1306	A1306	A1246	G1186	U1126	C1066	G1006	A946	G886	C826	A766
	G1487	C1427	C1367	U1307	U1247	G1187	G1127	A1067	U1007	G947	G887	U827	A767
	G1488	A1428	A1368	U1308	A1248	A1188	C1128	G1068	C1008	C948	G888	U828	A768
	G1489	A1429	C1369	G1309	C1249	U1189	C1129	C1069	U1009	A949	A889	G829	G769
	U1490	A1430	G1370	A1310	A1250	G1190	A1130	U1070	U1010	U950	G890	G830	C770
	G1491	G1371	A1371	A1311	A1251	A1191	G1131	C1071	C1011	G951	U891	A831	G771
A1492	A1432	U1372	U1372	C1312	A1252	C1192	C1132	G1072	A1012	U952	A892	G832	U772
A1493	A1433	G1373	G1373	G1313	G1253	G1193	G1133	U1073	C993	G953	C893	G833	G773
G1494	A1434	A1374	C1314	C1314	A1254	U1194	G1134	G1074	A1014	G954	G894	U834	G774
U1495	G1435	A1375	G1315	G1255	G1255	C1195	U1135	U1075	G995	U955	G895	U835	G775
C1496	U1436	U1376	A1256	A1256	A1196	C1136	U1076	A1016	C996	U956	G896	G836	G776
G1497	A1437	A1377	C1317	A1257	C1257	A1197	C1137	G1077	C997	U957	C897	U837	A777
	U1498	C1378	A1318	G1258	G1258	G1198	C1138	U1078	G1018	A958	G898	G838	G778
A1499	G1439	G1379	A1319	C1259	C1259	U1199	G1139	G1079	A1019	A959	C899	C839	G779
	U1440	U1380	C1320	G1260	G1260	C1140	U1080	A1081	C900	A960	A900	C840	A780
	C1501	U1381	U1321	A1261	A1261	A1201	C1141	A1081	A1021	U961	A901	C841	A781

## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9609	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Weiner filter	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3800	Depositor
Magnification	59000	Depositor
Image detector	FEI EAGLE (4k x 4k)	Depositor

## 5 Model quality (i)

### 5.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 2$	RMSZ	$\# Z  > 2$
1	N	3.47	5279/36831 (14.3%)	3.93	9337/57458 (16.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	N	0	941

All (5279) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1299	A	N9-C4	19.01	1.49	1.37
1	N	250	A	N7-C5	-17.90	1.28	1.39
1	N	942	G	N7-C5	-17.43	1.28	1.39
1	N	1093	A	C6-N6	17.36	1.47	1.33
1	N	710	G	N7-C5	-17.22	1.28	1.39
1	N	782	A	N3-C4	-16.34	1.25	1.34
1	N	1507	A	C6-N6	16.21	1.47	1.33
1	N	18	C	N1-C6	15.96	1.46	1.37
1	N	1282	C	N1-C6	15.44	1.46	1.37
1	N	1423	G	N7-C5	-15.28	1.30	1.39
1	N	132	C	N3-C4	14.98	1.44	1.33
1	N	563	A	N3-C4	-14.88	1.25	1.34
1	N	928	G	C2-N3	14.83	1.44	1.32
1	N	401	C	N1-C6	14.75	1.46	1.37
1	N	1428	A	N7-C5	-14.72	1.30	1.39
1	N	1332	A	C6-N6	14.65	1.45	1.33
1	N	453	G	C2-N3	14.64	1.44	1.32
1	N	1149	C	N1-C6	14.60	1.46	1.37
1	N	440	C	N1-C6	-14.35	1.28	1.37
1	N	1438	G	N7-C5	-14.33	1.30	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	721	G	N7-C5	-14.25	1.30	1.39
1	N	637	C	N3-C4	14.22	1.44	1.33
1	N	1169	A	N9-C4	-14.21	1.29	1.37
1	N	1494	G	N1-C2	14.18	1.49	1.37
1	N	145	G	C2-N3	14.15	1.44	1.32
1	N	648	A	N7-C5	-14.07	1.30	1.39
1	N	1398	A	N9-C4	13.95	1.46	1.37
1	N	1517	G	N1-C2	13.92	1.48	1.37
1	N	845	A	N7-C5	-13.88	1.30	1.39
1	N	757	U	C2-N3	13.88	1.47	1.37
1	N	728	A	N7-C5	-13.83	1.30	1.39
1	N	706	A	N7-C5	-13.79	1.30	1.39
1	N	784	A	N7-C5	-13.75	1.30	1.39
1	N	45	G	N7-C5	-13.73	1.31	1.39
1	N	1435	G	N7-C5	-13.71	1.31	1.39
1	N	33	A	N3-C4	13.65	1.43	1.34
1	N	774	G	N7-C5	13.63	1.47	1.39
1	N	626	G	N7-C5	-13.59	1.31	1.39
1	N	1032	G	N9-C8	13.53	1.47	1.37
1	N	949	A	N7-C5	-13.52	1.31	1.39
1	N	78	A	N7-C5	-13.52	1.31	1.39
1	N	396	C	C4-N4	13.49	1.46	1.33
1	N	205	A	N9-C4	13.49	1.46	1.37
1	N	404	G	N7-C5	-13.47	1.31	1.39
1	N	250	A	C6-N6	13.45	1.44	1.33
1	N	828	U	C2-N3	13.44	1.47	1.37
1	N	411	A	N9-C4	-13.42	1.29	1.37
1	N	1057	G	N7-C5	-13.39	1.31	1.39
1	N	1269	A	N9-C4	13.37	1.45	1.37
1	N	1219	A	C6-N6	13.31	1.44	1.33
1	N	1511	G	N9-C8	13.27	1.47	1.37
1	N	817	C	N3-C4	13.23	1.43	1.33
1	N	806	C	N3-C4	13.18	1.43	1.33
1	N	514	C	N3-C4	13.08	1.43	1.33
1	N	1127	G	C5-C4	13.04	1.47	1.38
1	N	50	A	C6-N1	13.03	1.44	1.35
1	N	146	G	C2-N3	13.03	1.43	1.32
1	N	261	U	C2-N3	13.03	1.46	1.37
1	N	144	G	C8-N7	-12.98	1.23	1.30
1	N	451	A	N7-C5	-12.96	1.31	1.39
1	N	242	G	C6-N1	12.95	1.48	1.39
1	N	1070	U	C2-N3	12.93	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	581	G	N3-C4	-12.87	1.26	1.35
1	N	1365	G	C2-N3	12.81	1.43	1.32
1	N	602	A	C5-C4	12.81	1.47	1.38
1	N	588	G	N1-C2	12.79	1.48	1.37
1	N	629	A	N7-C5	-12.75	1.31	1.39
1	N	1197	A	N9-C4	-12.72	1.30	1.37
1	N	737	C	N3-C4	12.71	1.42	1.33
1	N	161	A	N7-C5	-12.70	1.31	1.39
1	N	881	G	C6-N1	12.70	1.48	1.39
1	N	254	G	N7-C5	-12.69	1.31	1.39
1	N	346	G	N9-C4	-12.69	1.27	1.38
1	N	232	G	N7-C5	-12.64	1.31	1.39
1	N	1132	C	C5'-C4'	12.62	1.66	1.51
1	N	1269	A	N9-C8	-12.61	1.27	1.37
1	N	1142	G	C8-N7	-12.60	1.23	1.30
1	N	145	G	N7-C5	-12.58	1.31	1.39
1	N	465	A	N7-C5	-12.56	1.31	1.39
1	N	122	G	C8-N7	-12.55	1.23	1.30
1	N	643	C	C4-C5	12.54	1.52	1.43
1	N	1128	C	P-O5'	-12.46	1.47	1.59
1	N	1129	C	N1-C6	12.45	1.44	1.37
1	N	1494	G	C5-C4	12.42	1.47	1.38
1	N	867	G	C6-N1	12.40	1.48	1.39
1	N	68	G	N7-C5	-12.37	1.31	1.39
1	N	516	U	N3-C4	12.36	1.49	1.38
1	N	928	G	N7-C5	12.31	1.46	1.39
1	N	809	G	C6-N1	12.30	1.48	1.39
1	N	76	G	C8-N7	-12.30	1.23	1.30
1	N	1249	C	P-O5'	12.29	1.72	1.59
1	N	1297	G	N3-C4	12.28	1.44	1.35
1	N	696	A	C6-N1	12.25	1.44	1.35
1	N	929	G	C6-N1	12.24	1.48	1.39
1	N	1094	G	C5'-C4'	12.24	1.66	1.51
1	N	517	G	N9-C4	12.21	1.47	1.38
1	N	917	G	C8-N7	-12.21	1.23	1.30
1	N	1521	C	N1-C6	12.20	1.44	1.37
1	N	347	G	C5'-C4'	12.20	1.66	1.51
1	N	682	G	N1-C2	12.18	1.47	1.37
1	N	987	G	C6-N1	12.18	1.48	1.39
1	N	1394	A	C5-C4	12.16	1.47	1.38
1	N	388	G	C6-N1	12.15	1.48	1.39
1	N	947	G	C8-N7	-12.14	1.23	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	557	G	C3'-C2'	12.12	1.66	1.52
1	N	1004	A	N9-C4	-12.11	1.30	1.37
1	N	933	G	C8-N7	-12.10	1.23	1.30
1	N	515	G	C8-N7	-12.08	1.23	1.30
1	N	923	A	C6-N6	12.08	1.43	1.33
1	N	183	C	N1-C6	12.07	1.44	1.37
1	N	119	A	N7-C5	-12.05	1.32	1.39
1	N	33	A	N9-C4	12.04	1.45	1.37
1	N	567	G	C2-N3	12.02	1.42	1.32
1	N	1465	A	N9-C4	-12.02	1.30	1.37
1	N	1505	G	C6-N1	11.99	1.48	1.39
1	N	768	A	C8-N7	-11.99	1.23	1.31
1	N	681	A	N7-C5	-11.97	1.32	1.39
1	N	807	A	C6-N6	11.97	1.43	1.33
1	N	1170	A	N7-C5	-11.97	1.32	1.39
1	N	703	G	C2-N2	11.94	1.46	1.34
1	N	23	C	N1-C6	11.93	1.44	1.37
1	N	488	C	N3-C4	11.93	1.42	1.33
1	N	615	G	N7-C5	-11.93	1.32	1.39
1	N	805	C	P-O5'	-11.91	1.47	1.59
1	N	312	C	N3-C4	11.91	1.42	1.33
1	N	844	G	C6-N1	11.91	1.47	1.39
1	N	1021	A	N7-C5	-11.90	1.32	1.39
1	N	1269	A	N3-C4	-11.86	1.27	1.34
1	N	1519	A	C6-N6	11.86	1.43	1.33
1	N	1292	G	P-O5'	-11.85	1.47	1.59
1	N	860	A	P-O5'	-11.85	1.48	1.59
1	N	240	G	N1-C2	11.81	1.47	1.37
1	N	923	A	C8-N7	-11.81	1.23	1.31
1	N	753	A	C5-C4	11.81	1.47	1.38
1	N	286	C	N1-C6	11.80	1.44	1.37
1	N	494	G	C8-N7	-11.80	1.23	1.30
1	N	1513	A	N7-C5	-11.79	1.32	1.39
1	N	1229	A	N9-C8	-11.78	1.28	1.37
1	N	1371	G	C6-N1	11.77	1.47	1.39
1	N	198	G	N7-C5	-11.76	1.32	1.39
1	N	478	A	C6-N6	11.76	1.43	1.33
1	N	1248	A	N9-C8	11.76	1.47	1.37
1	N	11	G	N1-C2	11.74	1.47	1.37
1	N	1430	A	C6-N1	11.74	1.43	1.35
1	N	718	A	N7-C5	-11.73	1.32	1.39
1	N	325	A	N9-C4	11.72	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	207	C	C4-N4	11.69	1.44	1.33
1	N	939	G	C6-N1	11.66	1.47	1.39
1	N	877	G	N7-C5	-11.65	1.32	1.39
1	N	1524	C	N1-C6	-11.65	1.30	1.37
1	N	311	C	N1-C6	11.62	1.44	1.37
1	N	37	U	N1-C6	11.58	1.48	1.38
1	N	3	A	C6-N1	11.57	1.43	1.35
1	N	131	A	N9-C4	11.56	1.44	1.37
1	N	1432	G	N9-C4	-11.55	1.28	1.38
1	N	150	U	P-O5'	11.52	1.71	1.59
1	N	866	C	N3-C4	11.52	1.42	1.33
1	N	627	G	C8-N7	-11.51	1.24	1.30
1	N	232	G	C2-N3	11.50	1.42	1.32
1	N	274	A	C6-N1	11.50	1.43	1.35
1	N	475	C	N3-C4	11.48	1.42	1.33
1	N	1344	C	N3-C4	11.48	1.42	1.33
1	N	74	A	C5'-C4'	11.48	1.65	1.51
1	N	1252	A	C6-N6	11.48	1.43	1.33
1	N	730	G	N7-C5	-11.46	1.32	1.39
1	N	803	G	N1-C2	11.46	1.47	1.37
1	N	687	A	C5'-C4'	11.45	1.65	1.51
1	N	1065	U	C2-N3	11.45	1.45	1.37
1	N	1534	A	N7-C5	-11.44	1.32	1.39
1	N	45	G	C6-N1	11.43	1.47	1.39
1	N	21	G	C5-C4	11.43	1.46	1.38
1	N	667	G	N1-C2	11.43	1.46	1.37
1	N	316	C	O3'-P	-11.41	1.47	1.61
1	N	626	G	N1-C2	11.41	1.46	1.37
1	N	1253	G	N7-C5	-11.40	1.32	1.39
1	N	842	U	N3-C4	11.39	1.48	1.38
1	N	255	G	N7-C5	-11.38	1.32	1.39
1	N	437	U	C2-N3	11.38	1.45	1.37
1	N	1422	G	C5-C4	11.37	1.46	1.38
1	N	572	A	C6-N6	11.35	1.43	1.33
1	N	1511	G	C6-N1	11.35	1.47	1.39
1	N	1278	G	C8-N7	-11.35	1.24	1.30
1	N	312	C	N1-C6	11.33	1.44	1.37
1	N	1111	A	N9-C4	11.32	1.44	1.37
1	N	226	G	C8-N7	11.31	1.37	1.30
1	N	1032	G	C6-N1	11.31	1.47	1.39
1	N	1358	U	C2-N3	11.31	1.45	1.37
1	N	1401	G	C2-N3	11.30	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	122	G	N1-C2	11.30	1.46	1.37
1	N	145	G	C5'-C4'	11.30	1.65	1.51
1	N	898	G	N7-C5	-11.30	1.32	1.39
1	N	349	A	N7-C5	-11.26	1.32	1.39
1	N	941	G	N7-C5	-11.26	1.32	1.39
1	N	1124	G	C6-N1	11.26	1.47	1.39
1	N	1516	G	C5-C4	-11.26	1.30	1.38
1	N	1191	A	N7-C5	-11.25	1.32	1.39
1	N	351	G	C2-N3	11.24	1.41	1.32
1	N	77	A	N7-C5	-11.22	1.32	1.39
1	N	425	G	N7-C5	-11.22	1.32	1.39
1	N	722	G	N1-C2	11.22	1.46	1.37
1	N	1053	G	N7-C5	-11.21	1.32	1.39
1	N	11	G	C8-N7	-11.19	1.24	1.30
1	N	302	G	C6-N1	11.18	1.47	1.39
1	N	130	A	N9-C4	-11.18	1.31	1.37
1	N	644	U	C2-N3	11.18	1.45	1.37
1	N	1327	C	N3-C4	11.18	1.41	1.33
1	N	538	G	C5-C4	11.17	1.46	1.38
1	N	647	C	N3-C4	11.16	1.41	1.33
1	N	521	G	C2-N3	11.14	1.41	1.32
1	N	1033	G	C6-N1	-11.14	1.31	1.39
1	N	1200	C	N1-C6	11.14	1.43	1.37
1	N	129	A	N7-C5	-11.14	1.32	1.39
1	N	665	A	C4'-C3'	11.13	1.65	1.53
1	N	1127	G	C6-N1	11.13	1.47	1.39
1	N	670	G	C6-N1	11.13	1.47	1.39
1	N	594	U	C2-N3	11.12	1.45	1.37
1	N	190	A	C5-C6	-11.11	1.31	1.41
1	N	886	G	C6-N1	11.09	1.47	1.39
1	N	1526	G	C6-N1	11.09	1.47	1.39
1	N	1418	A	N9-C8	11.09	1.46	1.37
1	N	1370	G	N1-C2	11.09	1.46	1.37
1	N	1302	C	N1-C6	11.08	1.43	1.37
1	N	292	G	C6-N1	11.08	1.47	1.39
1	N	698	G	P-O5'	-11.08	1.48	1.59
1	N	1305	G	C2'-C1'	-11.08	1.41	1.53
1	N	527	G	N1-C2	11.07	1.46	1.37
1	N	21	G	N7-C5	-11.07	1.32	1.39
1	N	3	A	N9-C4	11.06	1.44	1.37
1	N	310	G	N7-C5	-11.05	1.32	1.39
1	N	91	U	C4-C5	11.05	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	649	A	C8-N7	-11.05	1.23	1.31
1	N	355	C	N1-C6	11.04	1.43	1.37
1	N	890	G	N1-C2	11.04	1.46	1.37
1	N	186	C	N3-C4	11.03	1.41	1.33
1	N	608	A	P-O5'	-11.03	1.48	1.59
1	N	878	A	N7-C5	11.02	1.45	1.39
1	N	9	G	N1-C2	11.02	1.46	1.37
1	N	601	G	N7-C5	11.01	1.45	1.39
1	N	1457	G	C5-C6	-11.00	1.31	1.42
1	N	763	G	C5-C4	11.00	1.46	1.38
1	N	144	G	N9-C4	-10.99	1.29	1.38
1	N	1246	A	C6-N6	10.98	1.42	1.33
1	N	1257	A	N3-C4	10.98	1.41	1.34
1	N	251	G	N1-C2	10.97	1.46	1.37
1	N	528	C	C4-C5	10.97	1.51	1.43
1	N	1229	A	N9-C4	10.96	1.44	1.37
1	N	940	C	C2-N3	10.95	1.44	1.35
1	N	1374	A	N9-C8	-10.95	1.28	1.37
1	N	1439	G	N9-C8	10.95	1.45	1.37
1	N	925	G	N7-C5	-10.94	1.32	1.39
1	N	198	G	N1-C2	10.94	1.46	1.37
1	N	181	A	N7-C5	-10.93	1.32	1.39
1	N	1443	C	N3-C4	10.93	1.41	1.33
1	N	1248	A	N9-C4	10.92	1.44	1.37
1	N	588	G	C6-N1	10.91	1.47	1.39
1	N	302	G	N9-C8	-10.91	1.30	1.37
1	N	716	A	N3-C4	-10.90	1.28	1.34
1	N	959	A	N7-C5	-10.89	1.32	1.39
1	N	105	G	N9-C8	10.87	1.45	1.37
1	N	627	G	N9-C8	10.87	1.45	1.37
1	N	1004	A	C6-N6	10.87	1.42	1.33
1	N	717	U	C5'-C4'	10.85	1.64	1.51
1	N	1018	G	N3-C4	10.84	1.43	1.35
1	N	1131	G	N7-C5	-10.84	1.32	1.39
1	N	1166	G	C2-N3	10.83	1.41	1.32
1	N	321	A	N7-C5	-10.83	1.32	1.39
1	N	906	A	N3-C4	-10.83	1.28	1.34
1	N	849	G	N7-C5	-10.83	1.32	1.39
1	N	567	G	C5-C4	-10.80	1.30	1.38
1	N	1353	G	N9-C8	10.79	1.45	1.37
1	N	39	G	N7-C5	10.78	1.45	1.39
1	N	244	U	C2-N3	10.78	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1322	C	C4'-C3'	10.77	1.65	1.53
1	N	695	A	C6-N1	10.76	1.43	1.35
1	N	1275	A	N7-C5	-10.76	1.32	1.39
1	N	863	U	P-O5'	-10.74	1.49	1.59
1	N	724	G	C2-N3	10.73	1.41	1.32
1	N	329	A	N7-C5	-10.73	1.32	1.39
1	N	1065	U	C4'-C3'	10.73	1.65	1.53
1	N	1014	A	C6-N6	10.72	1.42	1.33
1	N	1276	G	C2-N3	10.72	1.41	1.32
1	N	1114	C	C4-N4	10.70	1.43	1.33
1	N	302	G	N1-C2	10.70	1.46	1.37
1	N	848	C	N1-C6	10.68	1.43	1.37
1	N	1281	C	O3'-P	-10.67	1.48	1.61
1	N	608	A	C5'-C4'	10.63	1.64	1.51
1	N	1179	A	N7-C5	-10.63	1.32	1.39
1	N	336	A	C6-N6	10.62	1.42	1.33
1	N	497	G	C6-N1	10.62	1.47	1.39
1	N	1099	G	C6-N1	10.62	1.47	1.39
1	N	306	A	N9-C4	10.62	1.44	1.37
1	N	1096	C	N1-C6	10.61	1.43	1.37
1	N	1416	G	C5'-C4'	10.61	1.64	1.51
1	N	571	U	C2-N3	10.60	1.45	1.37
1	N	1101	A	N7-C5	-10.57	1.32	1.39
1	N	144	G	N1-C2	10.57	1.46	1.37
1	N	645	G	N1-C2	10.57	1.46	1.37
1	N	873	A	N7-C5	-10.57	1.32	1.39
1	N	730	G	C5-C6	-10.56	1.31	1.42
1	N	19	A	C6-N6	10.56	1.42	1.33
1	N	857	C	C2-N3	-10.56	1.27	1.35
1	N	500	G	C6-N1	10.55	1.47	1.39
1	N	733	G	C4'-C3'	10.55	1.64	1.53
1	N	536	C	N3-C4	10.54	1.41	1.33
1	N	601	G	N1-C2	10.53	1.46	1.37
1	N	334	C	N1-C6	10.52	1.43	1.37
1	N	127	G	C8-N7	-10.51	1.24	1.30
1	N	53	A	N3-C4	10.50	1.41	1.34
1	N	483	C	N1-C6	10.49	1.43	1.37
1	N	1346	A	C5'-C4'	10.48	1.64	1.51
1	N	669	G	N9-C4	-10.47	1.29	1.38
1	N	1274	A	N7-C5	-10.46	1.32	1.39
1	N	131	A	N7-C5	-10.46	1.32	1.39
1	N	508	U	C2-N3	10.46	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	607	A	C6-N1	10.45	1.42	1.35
1	N	1005	A	N9-C4	10.44	1.44	1.37
1	N	113	G	C2-N3	10.43	1.41	1.32
1	N	69	G	N7-C5	-10.43	1.32	1.39
1	N	122	G	C6-N1	10.42	1.46	1.39
1	N	129	A	N9-C4	-10.42	1.31	1.37
1	N	1224	U	N3-C4	10.41	1.47	1.38
1	N	159	G	N9-C4	-10.40	1.29	1.38
1	N	851	G	C6-N1	10.40	1.46	1.39
1	N	1252	A	C5'-C4'	10.40	1.63	1.51
1	N	202	G	C6-N1	10.39	1.46	1.39
1	N	331	G	C5-C6	-10.39	1.31	1.42
1	N	44	A	C6-N6	10.39	1.42	1.33
1	N	683	G	N7-C5	-10.39	1.33	1.39
1	N	1207	G	C6-N1	10.36	1.46	1.39
1	N	21	G	N3-C4	-10.36	1.28	1.35
1	N	599	C	C4-N4	10.35	1.43	1.33
1	N	532	A	C2'-C1'	-10.35	1.42	1.53
1	N	65	A	C2'-C1'	-10.33	1.42	1.53
1	N	1102	A	N9-C4	-10.33	1.31	1.37
1	N	130	A	N3-C4	-10.30	1.28	1.34
1	N	930	C	N1-C6	10.29	1.43	1.37
1	N	399	G	N1-C2	10.29	1.46	1.37
1	N	435	A	O3'-P	-10.27	1.48	1.61
1	N	363	A	C6-N6	10.27	1.42	1.33
1	N	1435	G	P-O5'	-10.27	1.49	1.59
1	N	557	G	N3-C4	10.26	1.42	1.35
1	N	1378	C	N3-C4	10.26	1.41	1.33
1	N	222	C	N1-C6	10.26	1.43	1.37
1	N	1147	C	C2'-C1'	-10.26	1.42	1.53
1	N	603	U	P-O5'	-10.25	1.49	1.59
1	N	1072	G	C5-C4	-10.25	1.31	1.38
1	N	1350	A	C6-N6	10.25	1.42	1.33
1	N	81	A	C6-N6	10.24	1.42	1.33
1	N	160	A	N7-C5	-10.22	1.33	1.39
1	N	1271	A	C6-N1	10.22	1.42	1.35
1	N	1516	G	C6-N1	10.21	1.46	1.39
1	N	748	G	C2-N3	10.20	1.41	1.32
1	N	1448	C	N1-C6	10.20	1.43	1.37
1	N	1437	A	N9-C8	-10.19	1.29	1.37
1	N	1279	G	C5'-C4'	10.18	1.63	1.51
1	N	821	G	N9-C4	-10.18	1.29	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	288	A	N9-C4	10.17	1.44	1.37
1	N	524	G	C6-N1	10.17	1.46	1.39
1	N	1468	A	C8-N7	-10.16	1.24	1.31
1	N	724	G	N7-C5	-10.15	1.33	1.39
1	N	1280	A	N7-C5	-10.15	1.33	1.39
1	N	494	G	C2'-C1'	-10.14	1.42	1.53
1	N	873	A	C6-N6	10.14	1.42	1.33
1	N	545	C	N3-C4	10.14	1.41	1.33
1	N	703	G	C2-N3	10.14	1.40	1.32
1	N	1177	G	N1-C2	10.13	1.45	1.37
1	N	1291	U	N3-C4	10.13	1.47	1.38
1	N	1217	C	C5'-C4'	10.12	1.63	1.51
1	N	118	U	O3'-P	-10.11	1.49	1.61
1	N	1374	A	N9-C4	10.11	1.44	1.37
1	N	150	U	C2'-C1'	-10.10	1.42	1.53
1	N	700	G	C2'-C1'	-10.10	1.42	1.53
1	N	31	G	P-O5'	-10.09	1.49	1.59
1	N	1182	G	N9-C4	-10.09	1.29	1.38
1	N	200	G	N9-C8	10.08	1.45	1.37
1	N	415	A	N7-C5	-10.07	1.33	1.39
1	N	921	U	N3-C4	10.07	1.47	1.38
1	N	63	C	C2-N3	10.07	1.43	1.35
1	N	109	A	N7-C5	-10.06	1.33	1.39
1	N	699	C	C4-N4	10.05	1.43	1.33
1	N	1112	C	N3-C4	10.05	1.41	1.33
1	N	1103	C	P-O5'	-10.05	1.49	1.59
1	N	683	G	C2-N3	10.04	1.40	1.32
1	N	1144	G	N7-C5	-10.04	1.33	1.39
1	N	728	A	N3-C4	-10.03	1.28	1.34
1	N	983	A	N3-C4	-10.02	1.28	1.34
1	N	973	G	N7-C5	-10.01	1.33	1.39
1	N	163	C	C2'-C1'	-10.01	1.42	1.53
1	N	742	G	C8-N7	10.00	1.36	1.30
1	N	789	U	C2-N3	10.00	1.44	1.37
1	N	249	U	C2-N3	9.98	1.44	1.37
1	N	1145	A	C6-N6	9.98	1.42	1.33
1	N	1269	A	C5-C4	-9.97	1.31	1.38
1	N	1094	G	C8-N7	9.96	1.36	1.30
1	N	1458	G	N9-C8	9.96	1.44	1.37
1	N	1111	A	N7-C5	-9.95	1.33	1.39
1	N	1355	G	N3-C4	-9.94	1.28	1.35
1	N	118	U	C2-N3	9.94	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	585	G	N1-C2	9.94	1.45	1.37
1	N	1339	A	C6-N6	9.94	1.42	1.33
1	N	1426	G	N7-C5	9.94	1.45	1.39
1	N	973	G	C2-N3	9.93	1.40	1.32
1	N	151	A	C8-N7	-9.93	1.24	1.31
1	N	706	A	C6-N6	9.93	1.41	1.33
1	N	1068	G	N1-C2	9.93	1.45	1.37
1	N	282	A	N3-C4	-9.92	1.28	1.34
1	N	1310	G	C8-N7	-9.90	1.25	1.30
1	N	1413	A	C8-N7	9.90	1.38	1.31
1	N	197	A	C6-N1	9.90	1.42	1.35
1	N	1374	A	N7-C5	-9.89	1.33	1.39
1	N	389	A	N7-C5	-9.89	1.33	1.39
1	N	1080	A	N7-C5	-9.89	1.33	1.39
1	N	491	G	N9-C8	9.89	1.44	1.37
1	N	603	U	N3-C4	9.89	1.47	1.38
1	N	639	G	C8-N7	-9.89	1.25	1.30
1	N	1516	G	N7-C5	-9.89	1.33	1.39
1	N	1385	G	N7-C5	-9.88	1.33	1.39
1	N	1006	G	C6-N1	9.88	1.46	1.39
1	N	716	A	C6-N6	9.87	1.41	1.33
1	N	1036	A	C6-N6	9.87	1.41	1.33
1	N	1318	A	N9-C4	9.87	1.43	1.37
1	N	226	G	C5-C6	-9.86	1.32	1.42
1	N	197	A	P-O5'	-9.86	1.49	1.59
1	N	432	A	N3-C4	-9.86	1.28	1.34
1	N	597	G	N7-C5	-9.85	1.33	1.39
1	N	412	A	N9-C4	-9.85	1.31	1.37
1	N	33	A	N7-C5	-9.84	1.33	1.39
1	N	769	G	N9-C4	9.84	1.45	1.38
1	N	894	G	N9-C8	9.83	1.44	1.37
1	N	132	C	N1-C6	9.83	1.43	1.37
1	N	149	A	N7-C5	-9.83	1.33	1.39
1	N	306	A	N7-C5	-9.83	1.33	1.39
1	N	120	A	N9-C4	9.82	1.43	1.37
1	N	523	A	C6-N6	9.82	1.41	1.33
1	N	846	G	C2-N3	9.82	1.40	1.32
1	N	122	G	N3-C4	-9.82	1.28	1.35
1	N	883	C	C4-C5	9.81	1.50	1.43
1	N	355	C	C4-N4	9.80	1.42	1.33
1	N	636	U	N3-C4	9.80	1.47	1.38
1	N	510	A	N9-C4	-9.80	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1423	G	C5-C4	9.80	1.45	1.38
1	N	1498	U	C2-N3	9.79	1.44	1.37
1	N	989	U	C2-N3	9.79	1.44	1.37
1	N	941	G	C6-N1	9.78	1.46	1.39
1	N	770	C	C4-N4	9.77	1.42	1.33
1	N	74	A	C6-N6	9.75	1.41	1.33
1	N	714	G	C2-N3	9.74	1.40	1.32
1	N	995	C	C2-N3	9.74	1.43	1.35
1	N	1130	A	N7-C5	-9.74	1.33	1.39
1	N	1499	A	N9-C8	9.74	1.45	1.37
1	N	415	A	C6-N1	9.73	1.42	1.35
1	N	39	G	C2'-C1'	-9.73	1.42	1.53
1	N	546	A	N9-C4	9.73	1.43	1.37
1	N	1480	A	N7-C5	-9.72	1.33	1.39
1	N	1419	G	N1-C2	9.72	1.45	1.37
1	N	1311	A	C6-N1	9.71	1.42	1.35
1	N	1401	G	C6-N1	9.71	1.46	1.39
1	N	369	G	N7-C5	-9.71	1.33	1.39
1	N	1382	C	C4-C5	-9.71	1.35	1.43
1	N	297	G	N9-C4	-9.70	1.30	1.38
1	N	832	G	C6-N1	9.70	1.46	1.39
1	N	663	A	C6-N6	9.70	1.41	1.33
1	N	1484	C	N3-C4	9.67	1.40	1.33
1	N	1360	A	C6-N1	9.67	1.42	1.35
1	N	675	A	N7-C5	-9.67	1.33	1.39
1	N	1386	G	N1-C2	9.66	1.45	1.37
1	N	223	A	N7-C5	-9.66	1.33	1.39
1	N	188	C	N1-C6	9.65	1.43	1.37
1	N	189	A	N9-C4	9.65	1.43	1.37
1	N	270	A	N7-C5	-9.65	1.33	1.39
1	N	271	C	C2'-C1'	-9.65	1.42	1.53
1	N	1043	G	C2-N3	9.65	1.40	1.32
1	N	1262	C	C4-N4	9.65	1.42	1.33
1	N	617	G	C2-N3	9.64	1.40	1.32
1	N	482	A	N7-C5	-9.64	1.33	1.39
1	N	1174	G	N1-C2	9.63	1.45	1.37
1	N	371	A	C6-N6	9.63	1.41	1.33
1	N	1520	C	N1-C6	-9.63	1.31	1.37
1	N	1139	G	C2'-C1'	-9.62	1.42	1.53
1	N	1305	G	N3-C4	-9.62	1.28	1.35
1	N	662	U	C2-N3	9.62	1.44	1.37
1	N	882	C	P-O5'	-9.62	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1413	A	N9-C4	-9.61	1.32	1.37
1	N	441	A	N7-C5	-9.61	1.33	1.39
1	N	628	G	N9-C4	-9.60	1.30	1.38
1	N	1197	A	C6-N6	9.60	1.41	1.33
1	N	45	G	C2'-C1'	-9.60	1.42	1.53
1	N	378	G	C5-C4	9.60	1.45	1.38
1	N	1326	U	C3'-C2'	9.60	1.63	1.52
1	N	1249	C	C2-N3	9.59	1.43	1.35
1	N	1476	A	N7-C5	-9.59	1.33	1.39
1	N	561	U	C2-N3	9.58	1.44	1.37
1	N	906	A	N7-C5	-9.58	1.33	1.39
1	N	86	G	C5'-C4'	9.57	1.62	1.51
1	N	1528	U	C2-N3	9.57	1.44	1.37
1	N	1355	G	N9-C8	9.56	1.44	1.37
1	N	17	U	C5-C6	9.56	1.42	1.34
1	N	1531	A	N7-C5	-9.56	1.33	1.39
1	N	330	C	N1-C6	-9.56	1.31	1.37
1	N	779	C	C5-C6	-9.56	1.26	1.34
1	N	1512	U	N1-C6	9.56	1.46	1.38
1	N	759	A	C8-N7	-9.55	1.24	1.31
1	N	1197	A	C3'-O3'	9.54	1.55	1.42
1	N	423	G	N7-C5	-9.54	1.33	1.39
1	N	856	C	C2-N3	9.54	1.43	1.35
1	N	403	C	N1-C6	9.53	1.42	1.37
1	N	445	G	C2-N3	9.53	1.40	1.32
1	N	465	A	N9-C4	-9.53	1.32	1.37
1	N	888	G	C6-N1	-9.53	1.32	1.39
1	N	415	A	N9-C4	9.52	1.43	1.37
1	N	1526	G	C2-N2	9.52	1.44	1.34
1	N	57	G	N9-C4	-9.51	1.30	1.38
1	N	624	C	N3-C4	9.51	1.40	1.33
1	N	831	A	N9-C4	-9.51	1.32	1.37
1	N	307	C	C2-N3	-9.51	1.28	1.35
1	N	1444	U	C2-N3	9.50	1.44	1.37
1	N	1131	G	C2'-C1'	-9.50	1.43	1.53
1	N	669	G	C6-N1	9.49	1.46	1.39
1	N	1274	A	C5-C4	9.49	1.45	1.38
1	N	959	A	N9-C4	-9.48	1.32	1.37
1	N	1122	U	N3-C4	9.47	1.47	1.38
1	N	939	G	C8-N7	-9.47	1.25	1.30
1	N	1215	G	C2'-C1'	-9.47	1.43	1.53
1	N	634	C	N1-C6	-9.47	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	549	C	C2'-C1'	-9.47	1.43	1.53
1	N	1138	G	N7-C5	-9.46	1.33	1.39
1	N	1142	G	C5-C4	9.46	1.45	1.38
1	N	566	G	N9-C8	-9.46	1.31	1.37
1	N	1208	C	N1-C6	9.46	1.42	1.37
1	N	653	U	C2-N3	9.46	1.44	1.37
1	N	1359	C	C2-N3	9.46	1.43	1.35
1	N	113	G	C5'-C4'	9.46	1.62	1.51
1	N	1161	C	O3'-P	-9.45	1.49	1.61
1	N	756	C	N1-C6	-9.45	1.31	1.37
1	N	831	A	N9-C8	9.44	1.45	1.37
1	N	565	U	C2-N3	9.44	1.44	1.37
1	N	152	A	C6-N1	9.44	1.42	1.35
1	N	1473	G	N7-C5	-9.44	1.33	1.39
1	N	1225	A	N7-C5	-9.43	1.33	1.39
1	N	1475	G	N7-C5	-9.43	1.33	1.39
1	N	1022	A	N9-C4	-9.43	1.32	1.37
1	N	862	C	N1-C6	9.43	1.42	1.37
1	N	1347	G	N1-C2	9.43	1.45	1.37
1	N	350	G	C5-C4	-9.42	1.31	1.38
1	N	682	G	N9-C8	9.42	1.44	1.37
1	N	1304	G	N3-C4	-9.42	1.28	1.35
1	N	1256	A	N9-C4	-9.41	1.32	1.37
1	N	932	C	N3-C4	9.41	1.40	1.33
1	N	97	G	N7-C5	-9.40	1.33	1.39
1	N	1515	G	C2-N3	9.40	1.40	1.32
1	N	1141	C	N1-C6	9.40	1.42	1.37
1	N	1214	C	N1-C6	9.40	1.42	1.37
1	N	608	A	N7-C5	-9.39	1.33	1.39
1	N	1153	G	N3-C4	-9.39	1.28	1.35
1	N	1321	U	C2-N3	9.39	1.44	1.37
1	N	325	A	C6-N1	9.39	1.42	1.35
1	N	470	C	C4-N4	9.39	1.42	1.33
1	N	1077	G	C2-N3	9.39	1.40	1.32
1	N	1381	U	C2-N3	9.39	1.44	1.37
1	N	1388	C	C4-C5	-9.39	1.35	1.43
1	N	698	G	N3-C4	-9.39	1.28	1.35
1	N	1410	A	C5-C4	9.39	1.45	1.38
1	N	1324	A	C6-N6	9.38	1.41	1.33
1	N	280	C	N1-C6	9.37	1.42	1.37
1	N	111	G	N7-C5	-9.37	1.33	1.39
1	N	275	G	C8-N7	9.37	1.36	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	532	A	C6-N6	9.36	1.41	1.33
1	N	1472	U	C2-N3	9.36	1.44	1.37
1	N	894	G	C8-N7	9.36	1.36	1.30
1	N	1236	A	O3'-P	-9.36	1.50	1.61
1	N	1242	G	P-O5'	-9.36	1.50	1.59
1	N	788	U	N3-C4	9.35	1.46	1.38
1	N	423	G	C8-N7	9.35	1.36	1.30
1	N	108	G	N7-C5	-9.34	1.33	1.39
1	N	271	C	C4-N4	-9.34	1.25	1.33
1	N	1257	A	C8-N7	-9.34	1.25	1.31
1	N	1403	C	P-O5'	-9.34	1.50	1.59
1	N	1325	C	N3-C4	9.33	1.40	1.33
1	N	469	C	N3-C4	9.33	1.40	1.33
1	N	665	A	N9-C4	9.32	1.43	1.37
1	N	457	G	N1-C2	9.32	1.45	1.37
1	N	1022	A	N7-C5	9.32	1.44	1.39
1	N	1454	G	C2-N3	9.32	1.40	1.32
1	N	197	A	N7-C5	-9.31	1.33	1.39
1	N	335	C	C2'-C1'	-9.31	1.43	1.53
1	N	1181	G	C2'-C1'	-9.31	1.43	1.53
1	N	694	A	N3-C4	-9.31	1.29	1.34
1	N	577	G	C4'-C3'	9.31	1.63	1.53
1	N	655	A	N9-C4	-9.30	1.32	1.37
1	N	699	C	N3-C4	9.30	1.40	1.33
1	N	1043	G	N3-C4	9.30	1.42	1.35
1	N	1402	C	C4-N4	9.30	1.42	1.33
1	N	1037	C	N3-C4	9.29	1.40	1.33
1	N	319	G	N7-C5	-9.29	1.33	1.39
1	N	648	A	C6-N6	9.29	1.41	1.33
1	N	527	G	C8-N7	-9.29	1.25	1.30
1	N	325	A	C5-C4	9.28	1.45	1.38
1	N	284	C	N3-C4	9.28	1.40	1.33
1	N	123	U	C2-N3	9.28	1.44	1.37
1	N	497	G	C5-C4	-9.28	1.31	1.38
1	N	199	A	C6-N6	9.27	1.41	1.33
1	N	340	U	C2'-C1'	-9.27	1.43	1.53
1	N	1044	A	N7-C5	-9.27	1.33	1.39
1	N	1350	A	C6-N1	9.27	1.42	1.35
1	N	729	A	C2-N3	9.27	1.41	1.33
1	N	666	G	N7-C5	-9.26	1.33	1.39
1	N	674	G	C6-N1	9.26	1.46	1.39
1	N	966	G	N9-C8	9.26	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1199	U	N3-C4	9.26	1.46	1.38
1	N	1137	C	N3-C4	9.26	1.40	1.33
1	N	577	G	C2-N3	9.26	1.40	1.32
1	N	1396	A	N7-C5	-9.25	1.33	1.39
1	N	80	A	C8-N7	-9.25	1.25	1.31
1	N	275	G	C2-N3	9.25	1.40	1.32
1	N	666	G	N9-C8	9.24	1.44	1.37
1	N	364	A	C5-C4	-9.24	1.32	1.38
1	N	198	G	C2'-C1'	-9.24	1.43	1.53
1	N	1160	G	O4'-C1'	9.23	1.53	1.41
1	N	19	A	N3-C4	-9.23	1.29	1.34
1	N	487	A	N9-C8	9.23	1.45	1.37
1	N	220	G	N7-C5	-9.22	1.33	1.39
1	N	371	A	C4'-C3'	9.22	1.63	1.53
1	N	190	A	C6-N1	9.22	1.42	1.35
1	N	355	C	N3-C4	9.22	1.40	1.33
1	N	179	A	C8-N7	-9.22	1.25	1.31
1	N	147	G	N3-C4	-9.22	1.28	1.35
1	N	199	A	N9-C4	-9.22	1.32	1.37
1	N	1105	A	N7-C5	-9.22	1.33	1.39
1	N	444	G	N1-C2	9.21	1.45	1.37
1	N	754	C	N3-C4	9.21	1.40	1.33
1	N	1513	A	C8-N7	-9.21	1.25	1.31
1	N	1061	G	N9-C8	9.21	1.44	1.37
1	N	774	G	C2-N3	9.20	1.40	1.32
1	N	179	A	N7-C5	-9.20	1.33	1.39
1	N	263	A	C6-N1	9.20	1.42	1.35
1	N	808	C	N3-C4	9.20	1.40	1.33
1	N	356	A	N9-C4	-9.19	1.32	1.37
1	N	861	G	N7-C5	-9.19	1.33	1.39
1	N	1349	A	C6-N1	9.19	1.42	1.35
1	N	978	A	C8-N7	-9.19	1.25	1.31
1	N	1305	G	C2-N3	9.18	1.40	1.32
1	N	453	G	C8-N7	9.18	1.36	1.30
1	N	513	C	P-O5'	-9.17	1.50	1.59
1	N	938	A	N3-C4	9.17	1.40	1.34
1	N	416	G	C2-N3	9.16	1.40	1.32
1	N	99	C	C4-N4	9.16	1.42	1.33
1	N	132	C	C5'-C4'	9.16	1.62	1.51
1	N	1263	C	N1-C6	9.16	1.42	1.37
1	N	674	G	C2'-C1'	-9.16	1.43	1.53
1	N	1127	G	C5-C6	-9.16	1.33	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1053	G	N3-C4	-9.16	1.29	1.35
1	N	614	C	N3-C4	9.15	1.40	1.33
1	N	1127	G	N7-C5	-9.15	1.33	1.39
1	N	302	G	C8-N7	9.15	1.36	1.30
1	N	601	G	C6-N1	9.15	1.46	1.39
1	N	606	G	N7-C5	-9.14	1.33	1.39
1	N	719	C	N1-C6	-9.14	1.31	1.37
1	N	157	U	C5'-C4'	9.13	1.62	1.51
1	N	524	G	C5-C4	9.13	1.44	1.38
1	N	991	U	N3-C4	9.13	1.46	1.38
1	N	932	C	N1-C6	9.12	1.42	1.37
1	N	1334	G	C2-N3	9.12	1.40	1.32
1	N	1292	G	N7-C5	-9.12	1.33	1.39
1	N	1340	A	P-O5'	-9.12	1.50	1.59
1	N	1160	G	C6-N1	9.12	1.46	1.39
1	N	548	G	C6-N1	-9.11	1.33	1.39
1	N	1024	G	P-O5'	-9.10	1.50	1.59
1	N	59	A	N7-C5	-9.09	1.33	1.39
1	N	1382	C	N3-C4	9.09	1.40	1.33
1	N	413	G	C2-N3	9.09	1.40	1.32
1	N	1227	A	N9-C4	9.08	1.43	1.37
1	N	1503	A	C6-N1	9.08	1.42	1.35
1	N	1046	A	N9-C4	9.07	1.43	1.37
1	N	771	G	N3-C4	-9.07	1.29	1.35
1	N	980	C	N1-C6	9.07	1.42	1.37
1	N	465	A	C6-N6	9.07	1.41	1.33
1	N	311	C	N3-C4	9.07	1.40	1.33
1	N	613	C	C5'-C4'	9.07	1.62	1.51
1	N	1047	G	N1-C2	9.07	1.45	1.37
1	N	688	G	N9-C4	-9.07	1.30	1.38
1	N	22	G	P-O5'	-9.06	1.50	1.59
1	N	619	U	N1-C2	-9.06	1.30	1.38
1	N	1500	A	N7-C5	-9.05	1.33	1.39
1	N	1353	G	N1-C2	9.05	1.45	1.37
1	N	1133	G	C2-N3	9.05	1.40	1.32
1	N	182	A	C6-N6	9.05	1.41	1.33
1	N	903	G	C4'-C3'	9.04	1.63	1.53
1	N	195	A	C5-C4	-9.04	1.32	1.38
1	N	1337	G	C2-N3	9.04	1.40	1.32
1	N	972	C	N3-C4	9.04	1.40	1.33
1	N	778	G	C2'-C1'	-9.04	1.43	1.53
1	N	1287	A	C6-N1	9.03	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1070	U	P-O5'	-9.03	1.50	1.59
1	N	1371	G	C2-N3	9.03	1.40	1.32
1	N	977	A	C5-C4	9.02	1.45	1.38
1	N	191	G	N1-C2	9.02	1.45	1.37
1	N	527	G	C6-N1	9.02	1.45	1.39
1	N	838	G	C2-N3	9.02	1.40	1.32
1	N	671	G	C2-N3	9.02	1.40	1.32
1	N	860	A	C5'-C4'	9.02	1.62	1.51
1	N	1475	G	N9-C4	-9.02	1.30	1.38
1	N	666	G	C8-N7	-9.01	1.25	1.30
1	N	1044	A	C5-C4	9.01	1.45	1.38
1	N	224	U	C2-N3	9.00	1.44	1.37
1	N	753	A	C8-N7	9.00	1.37	1.31
1	N	1517	G	N7-C5	-9.00	1.33	1.39
1	N	1352	C	C5'-C4'	8.99	1.62	1.51
1	N	474	G	C2-N3	8.99	1.40	1.32
1	N	538	G	C8-N7	8.99	1.36	1.30
1	N	954	G	C6-N1	8.98	1.45	1.39
1	N	284	C	N1-C6	8.98	1.42	1.37
1	N	1291	U	N1-C6	8.98	1.46	1.38
1	N	599	C	N1-C6	8.97	1.42	1.37
1	N	935	A	C5-C4	8.97	1.45	1.38
1	N	82	G	N1-C2	8.97	1.45	1.37
1	N	120	A	C6-N1	8.97	1.41	1.35
1	N	1385	G	P-O5'	-8.97	1.50	1.59
1	N	727	G	C4'-C3'	8.97	1.63	1.53
1	N	691	G	C6-N1	8.97	1.45	1.39
1	N	727	G	C6-N1	8.96	1.45	1.39
1	N	1276	G	N9-C4	-8.96	1.30	1.38
1	N	906	A	C6-N6	8.96	1.41	1.33
1	N	1459	G	N7-C5	-8.96	1.33	1.39
1	N	177	G	N1-C2	8.95	1.45	1.37
1	N	350	G	C6-N1	8.95	1.45	1.39
1	N	994	A	C6-N6	8.95	1.41	1.33
1	N	1173	U	P-O5'	-8.95	1.50	1.59
1	N	867	G	N7-C5	-8.95	1.33	1.39
1	N	1174	G	N9-C4	-8.95	1.30	1.38
1	N	845	A	C6-N6	8.95	1.41	1.33
1	N	1051	C	N1-C6	8.95	1.42	1.37
1	N	1412	C	O3'-P	-8.95	1.50	1.61
1	N	705	G	C2-N2	8.94	1.43	1.34
1	N	827	U	C2-N3	8.94	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	260	G	C6-N1	8.94	1.45	1.39
1	N	1315	U	C2-N3	8.94	1.44	1.37
1	N	315	A	C6-N1	8.94	1.41	1.35
1	N	1430	A	C4'-C3'	-8.94	1.43	1.53
1	N	219	U	N1-C2	-8.93	1.30	1.38
1	N	1174	G	N7-C5	-8.93	1.33	1.39
1	N	1255	G	N7-C5	-8.93	1.33	1.39
1	N	209	U	C2-N3	8.93	1.44	1.37
1	N	1418	A	C6-N1	8.93	1.41	1.35
1	N	787	A	N7-C5	-8.93	1.33	1.39
1	N	1058	G	N3-C4	-8.92	1.29	1.35
1	N	816	A	N9-C4	-8.92	1.32	1.37
1	N	573	A	N7-C5	-8.92	1.33	1.39
1	N	492	C	N3-C4	8.91	1.40	1.33
1	N	928	G	C2-N2	8.91	1.43	1.34
1	N	1289	A	N9-C8	8.91	1.44	1.37
1	N	1510	C	N3-C4	8.91	1.40	1.33
1	N	1421	G	C8-N7	-8.91	1.25	1.30
1	N	627	G	N1-C2	8.90	1.44	1.37
1	N	106	C	P-O5'	-8.90	1.50	1.59
1	N	558	G	C2'-C1'	-8.90	1.43	1.53
1	N	171	A	C4'-C3'	-8.90	1.43	1.53
1	N	765	G	O3'-P	-8.90	1.50	1.61
1	N	842	U	C2-N3	8.89	1.44	1.37
1	N	1048	G	C5-C6	-8.89	1.33	1.42
1	N	1487	G	C5-C4	-8.89	1.32	1.38
1	N	1364	U	C4'-C3'	8.89	1.62	1.53
1	N	217	C	C2-N3	8.89	1.42	1.35
1	N	300	A	N3-C4	-8.88	1.29	1.34
1	N	1484	C	C4-N4	8.88	1.42	1.33
1	N	651	C	P-O5'	-8.87	1.50	1.59
1	N	1077	G	C5-C6	-8.87	1.33	1.42
1	N	586	C	C2'-C1'	-8.87	1.43	1.53
1	N	468	A	C4'-O4'	-8.87	1.34	1.45
1	N	94	G	C6-N1	8.87	1.45	1.39
1	N	964	A	N7-C5	-8.86	1.33	1.39
1	N	1119	C	N1-C6	8.86	1.42	1.37
1	N	134	G	N1-C2	8.86	1.44	1.37
1	N	958	A	C5-C4	-8.85	1.32	1.38
1	N	374	A	N7-C5	-8.85	1.33	1.39
1	N	505	G	N9-C8	8.85	1.44	1.37
1	N	495	A	N7-C5	-8.85	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	185	U	P-O5'	-8.84	1.50	1.59
1	N	1368	A	N3-C4	8.84	1.40	1.34
1	N	464	U	O3'-P	-8.84	1.50	1.61
1	N	1386	G	N9-C8	8.83	1.44	1.37
1	N	611	C	N3-C4	8.83	1.40	1.33
1	N	1308	U	C3'-C2'	8.83	1.62	1.52
1	N	757	U	N1-C2	-8.83	1.30	1.38
1	N	1377	A	C6-N6	8.83	1.41	1.33
1	N	1066	C	C4-N4	8.81	1.41	1.33
1	N	1299	A	N3-C4	-8.81	1.29	1.34
1	N	236	A	C6-N6	8.81	1.41	1.33
1	N	463	U	C2-N3	8.81	1.44	1.37
1	N	1216	A	N3-C4	-8.81	1.29	1.34
1	N	102	G	N9-C8	8.80	1.44	1.37
1	N	890	G	N9-C4	-8.80	1.30	1.38
1	N	744	C	C4'-C3'	8.80	1.62	1.53
1	N	430	A	C6-N1	8.80	1.41	1.35
1	N	1129	C	C3'-C2'	8.80	1.62	1.52
1	N	730	G	C2-N3	8.79	1.39	1.32
1	N	1437	A	C6-N1	8.79	1.41	1.35
1	N	1203	C	C2-N3	8.79	1.42	1.35
1	N	940	C	N1-C6	8.78	1.42	1.37
1	N	1006	G	N1-C2	8.78	1.44	1.37
1	N	726	C	C4-N4	8.77	1.41	1.33
1	N	189	A	C6-N6	8.77	1.41	1.33
1	N	335	C	N3-C4	8.77	1.40	1.33
1	N	743	A	C3'-C2'	8.76	1.62	1.52
1	N	1433	A	C6-N6	8.76	1.41	1.33
1	N	140	U	C2-N3	8.76	1.43	1.37
1	N	1044	A	C6-N1	8.76	1.41	1.35
1	N	104	G	N7-C5	-8.76	1.33	1.39
1	N	1251	A	C5-C4	8.76	1.44	1.38
1	N	630	A	C6-N1	8.76	1.41	1.35
1	N	150	U	C2-N3	8.75	1.43	1.37
1	N	1297	G	N7-C5	-8.75	1.34	1.39
1	N	117	G	C2-N3	8.74	1.39	1.32
1	N	893	C	C2-N3	8.74	1.42	1.35
1	N	1296	C	C4'-C3'	8.74	1.62	1.53
1	N	453	G	N7-C5	-8.74	1.34	1.39
1	N	523	A	N7-C5	-8.74	1.34	1.39
1	N	564	C	P-O5'	-8.74	1.51	1.59
1	N	901	A	C6-N6	8.74	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	80	A	N3-C4	-8.73	1.29	1.34
1	N	421	U	C5'-C4'	8.73	1.61	1.51
1	N	1461	G	N7-C5	-8.73	1.34	1.39
1	N	1337	G	C8-N7	8.73	1.36	1.30
1	N	70	U	O3'-P	-8.73	1.50	1.61
1	N	952	U	C2-N3	8.72	1.43	1.37
1	N	1370	G	N9-C8	-8.72	1.31	1.37
1	N	184	G	C2-N3	8.72	1.39	1.32
1	N	631	C	C4-N4	8.72	1.41	1.33
1	N	662	U	C5'-C4'	8.71	1.61	1.51
1	N	853	C	N1-C6	8.71	1.42	1.37
1	N	1426	G	C2-N3	8.71	1.39	1.32
1	N	515	G	C2-N3	8.71	1.39	1.32
1	N	701	U	C2-N3	8.71	1.43	1.37
1	N	945	G	C3'-C2'	8.71	1.62	1.52
1	N	1170	A	C2'-C1'	-8.69	1.43	1.53
1	N	148	G	N1-C2	8.69	1.44	1.37
1	N	947	G	C2-N2	8.69	1.43	1.34
1	N	308	C	N1-C6	8.68	1.42	1.37
1	N	631	C	N1-C6	8.68	1.42	1.37
1	N	1042	A	C5-C4	8.68	1.44	1.38
1	N	786	G	C6-N1	8.68	1.45	1.39
1	N	876	C	N3-C4	8.68	1.40	1.33
1	N	966	G	N1-C2	8.67	1.44	1.37
1	N	20	U	C2-N3	8.66	1.43	1.37
1	N	829	G	C8-N7	-8.66	1.25	1.30
1	N	854	U	N3-C4	8.66	1.46	1.38
1	N	313	A	C6-N6	8.65	1.40	1.33
1	N	616	G	P-O5'	-8.65	1.51	1.59
1	N	1079	G	C2-N3	8.65	1.39	1.32
1	N	640	A	C6-N6	8.64	1.40	1.33
1	N	5	U	C4'-C3'	8.64	1.62	1.53
1	N	329	A	N9-C4	-8.64	1.32	1.37
1	N	1151	A	C6-N6	8.64	1.40	1.33
1	N	1261	A	N7-C5	-8.63	1.34	1.39
1	N	700	G	C2-N3	8.63	1.39	1.32
1	N	1417	G	C8-N7	-8.63	1.25	1.30
1	N	1436	U	C2-N3	8.63	1.43	1.37
1	N	1178	G	N9-C4	-8.63	1.31	1.38
1	N	1363	A	N3-C4	-8.63	1.29	1.34
1	N	100	G	C6-N1	-8.63	1.33	1.39
1	N	139	A	C6-N6	8.62	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	426	U	P-O5'	-8.62	1.51	1.59
1	N	1157	A	N3-C4	8.62	1.40	1.34
1	N	1519	A	N7-C5	-8.62	1.34	1.39
1	N	336	A	C2-N3	8.62	1.41	1.33
1	N	963	G	C2-N2	8.62	1.43	1.34
1	N	1103	C	C2'-C1'	-8.62	1.43	1.53
1	N	1500	A	C8-N7	-8.62	1.25	1.31
1	N	626	G	P-O5'	-8.61	1.51	1.59
1	N	798	U	C5'-C4'	8.61	1.61	1.51
1	N	819	A	N7-C5	-8.61	1.34	1.39
1	N	1109	C	N3-C4	8.61	1.40	1.33
1	N	875	U	N3-C4	8.61	1.46	1.38
1	N	1047	G	N7-C5	8.61	1.44	1.39
1	N	148	G	N7-C5	-8.60	1.34	1.39
1	N	772	U	C1'-N1	8.60	1.61	1.48
1	N	1468	A	N7-C5	-8.60	1.34	1.39
1	N	1221	G	N9-C4	-8.60	1.31	1.38
1	N	26	A	N7-C5	-8.60	1.34	1.39
1	N	376	G	N1-C2	8.60	1.44	1.37
1	N	1431	A	N9-C8	8.60	1.44	1.37
1	N	954	G	C5-C6	-8.60	1.33	1.42
1	N	981	U	C2-N3	8.59	1.43	1.37
1	N	1288	A	N7-C5	-8.59	1.34	1.39
1	N	313	A	O3'-P	-8.59	1.50	1.61
1	N	135	C	N3-C4	8.59	1.40	1.33
1	N	230	G	C2-N3	8.59	1.39	1.32
1	N	278	G	C8-N7	-8.58	1.25	1.30
1	N	411	A	N7-C5	-8.58	1.34	1.39
1	N	1237	C	N1-C6	8.58	1.42	1.37
1	N	369	G	C6-N1	8.58	1.45	1.39
1	N	288	A	N9-C8	8.57	1.44	1.37
1	N	321	A	C6-N6	8.57	1.40	1.33
1	N	785	G	N1-C2	8.57	1.44	1.37
1	N	420	U	C2-N3	8.56	1.43	1.37
1	N	626	G	C5-C4	8.56	1.44	1.38
1	N	1458	G	P-O5'	-8.56	1.51	1.59
1	N	452	A	N3-C4	-8.55	1.29	1.34
1	N	886	G	C2'-C1'	-8.55	1.44	1.53
1	N	768	A	N3-C4	-8.55	1.29	1.34
1	N	880	C	N1-C2	-8.55	1.31	1.40
1	N	1442	G	N7-C5	-8.55	1.34	1.39
1	N	28	A	N7-C5	-8.55	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	685	G	N7-C5	-8.55	1.34	1.39
1	N	1093	A	N7-C5	-8.55	1.34	1.39
1	N	1459	G	C8-N7	-8.55	1.25	1.30
1	N	675	A	P-O5'	-8.55	1.51	1.59
1	N	859	G	C6-N1	8.54	1.45	1.39
1	N	1034	G	N7-C5	-8.54	1.34	1.39
1	N	1160	G	C2-N3	8.54	1.39	1.32
1	N	256	U	C4-C5	8.53	1.51	1.43
1	N	781	A	C6-N6	8.53	1.40	1.33
1	N	984	C	C2'-C1'	-8.53	1.44	1.53
1	N	1198	G	C5-C6	-8.54	1.33	1.42
1	N	1461	G	C2-N3	8.53	1.39	1.32
1	N	1052	U	C5'-C4'	8.53	1.61	1.51
1	N	1341	U	C5'-C4'	8.53	1.61	1.51
1	N	1145	A	C8-N7	-8.53	1.25	1.31
1	N	1111	A	N3-C4	8.52	1.40	1.34
1	N	389	A	C6-N1	8.52	1.41	1.35
1	N	197	A	C4'-C3'	8.51	1.62	1.53
1	N	22	G	C8-N7	-8.51	1.25	1.30
1	N	639	G	C2-N3	8.51	1.39	1.32
1	N	1058	G	C2-N3	8.51	1.39	1.32
1	N	63	C	C4-N4	8.51	1.41	1.33
1	N	365	U	C2-N3	8.51	1.43	1.37
1	N	1489	G	N1-C2	8.50	1.44	1.37
1	N	1103	C	C4'-O4'	-8.50	1.34	1.45
1	N	1295	U	O3'-P	-8.50	1.50	1.61
1	N	256	U	P-O5'	-8.50	1.51	1.59
1	N	319	G	N9-C4	-8.49	1.31	1.38
1	N	717	U	P-O5'	-8.49	1.51	1.59
1	N	450	G	C2-N3	8.49	1.39	1.32
1	N	1496	C	C3'-C2'	8.48	1.62	1.52
1	N	891	U	N1-C2	8.48	1.46	1.38
1	N	524	G	P-O5'	-8.48	1.51	1.59
1	N	763	G	N7-C5	-8.47	1.34	1.39
1	N	947	G	C4'-O4'	-8.47	1.34	1.45
1	N	1213	A	N9-C4	-8.47	1.32	1.37
1	N	1510	C	C4-N4	8.47	1.41	1.33
1	N	698	G	C6-N1	8.46	1.45	1.39
1	N	1181	G	N3-C4	-8.46	1.29	1.35
1	N	1422	G	N3-C4	8.46	1.41	1.35
1	N	213	G	C8-N7	-8.46	1.25	1.30
1	N	1186	G	N3-C4	-8.46	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	149	A	C6-N1	8.45	1.41	1.35
1	N	195	A	N7-C5	-8.45	1.34	1.39
1	N	1348	U	C4-C5	8.45	1.51	1.43
1	N	15	G	N9-C4	8.44	1.44	1.38
1	N	562	U	C5'-C4'	8.44	1.61	1.51
1	N	618	C	N1-C6	8.44	1.42	1.37
1	N	749	A	N7-C5	-8.44	1.34	1.39
1	N	1461	G	C2-N2	8.44	1.43	1.34
1	N	694	A	N9-C4	-8.44	1.32	1.37
1	N	1154	G	N7-C5	-8.44	1.34	1.39
1	N	184	G	N1-C2	8.43	1.44	1.37
1	N	1364	U	C2-N3	8.43	1.43	1.37
1	N	423	G	C6-N1	8.43	1.45	1.39
1	N	441	A	C8-N7	-8.42	1.25	1.31
1	N	1152	A	C6-N6	8.42	1.40	1.33
1	N	742	G	C6-N1	8.41	1.45	1.39
1	N	628	G	C5'-C4'	8.41	1.61	1.51
1	N	792	A	C5'-C4'	8.40	1.61	1.51
1	N	967	C	N3-C4	8.40	1.39	1.33
1	N	1212	U	N3-C4	8.40	1.46	1.38
1	N	42	G	N9-C4	8.40	1.44	1.38
1	N	573	A	N3-C4	8.40	1.39	1.34
1	N	1080	A	C2-N3	8.40	1.41	1.33
1	N	1242	G	C2-N3	8.40	1.39	1.32
1	N	1429	A	C6-N6	8.40	1.40	1.33
1	N	326	G	C2-N3	8.39	1.39	1.32
1	N	668	G	N1-C2	8.39	1.44	1.37
1	N	1085	U	C2-N3	8.39	1.43	1.37
1	N	1414	U	C2-N3	8.39	1.43	1.37
1	N	806	C	N1-C6	8.38	1.42	1.37
1	N	419	C	C4-N4	8.38	1.41	1.33
1	N	236	A	C8-N7	-8.38	1.25	1.31
1	N	740	U	C4-O4	8.38	1.30	1.23
1	N	342	C	C4-C5	8.37	1.49	1.43
1	N	856	C	C4-C5	-8.37	1.36	1.43
1	N	864	A	C6-N1	8.37	1.41	1.35
1	N	703	G	N7-C5	-8.36	1.34	1.39
1	N	1280	A	C2'-O2'	-8.36	1.30	1.41
1	N	145	G	N9-C8	-8.36	1.31	1.37
1	N	1041	G	C5'-C4'	8.36	1.61	1.51
1	N	1077	G	N9-C8	-8.36	1.31	1.37
1	N	679	C	N1-C6	8.36	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	315	A	O3'-P	-8.35	1.51	1.61
1	N	331	G	C5-C4	-8.35	1.32	1.38
1	N	826	C	N1-C6	8.35	1.42	1.37
1	N	1082	A	N7-C5	-8.35	1.34	1.39
1	N	10	A	N9-C4	8.35	1.42	1.37
1	N	1098	C	P-O5'	-8.35	1.51	1.59
1	N	781	A	C5-C4	8.35	1.44	1.38
1	N	955	U	O3'-P	-8.35	1.51	1.61
1	N	535	A	C6-N1	8.34	1.41	1.35
1	N	1127	G	C4'-C3'	8.34	1.62	1.53
1	N	52	C	P-O5'	-8.34	1.51	1.59
1	N	227	G	C6-N1	8.34	1.45	1.39
1	N	836	G	N1-C2	8.34	1.44	1.37
1	N	477	C	C4-N4	8.34	1.41	1.33
1	N	1179	A	C8-N7	-8.34	1.25	1.31
1	N	1230	C	P-O5'	-8.33	1.51	1.59
1	N	278	G	N9-C8	8.33	1.43	1.37
1	N	698	G	C4'-C3'	-8.33	1.44	1.53
1	N	558	G	N3-C4	8.32	1.41	1.35
1	N	946	A	C6-N6	8.32	1.40	1.33
1	N	1434	A	P-O5'	-8.31	1.51	1.59
1	N	298	A	C6-N6	8.30	1.40	1.33
1	N	529	G	C6-N1	8.31	1.45	1.39
1	N	931	C	O3'-P	-8.30	1.51	1.61
1	N	1407	C	N3-C4	8.30	1.39	1.33
1	N	864	A	N3-C4	8.30	1.39	1.34
1	N	298	A	N9-C4	8.30	1.42	1.37
1	N	690	G	N7-C5	-8.30	1.34	1.39
1	N	731	G	C5-C4	-8.29	1.32	1.38
1	N	919	A	P-O5'	-8.29	1.51	1.59
1	N	1119	C	C4-N4	8.29	1.41	1.33
1	N	209	U	C3'-C2'	8.29	1.62	1.52
1	N	1514	G	C5-C6	8.29	1.50	1.42
1	N	760	G	N1-C2	8.29	1.44	1.37
1	N	1296	C	C2'-C1'	-8.29	1.44	1.53
1	N	563	A	N9-C8	-8.28	1.31	1.37
1	N	155	A	P-O5'	-8.28	1.51	1.59
1	N	230	G	N9-C8	8.28	1.43	1.37
1	N	628	G	C2-N3	-8.28	1.26	1.32
1	N	585	G	N7-C5	-8.28	1.34	1.39
1	N	232	G	N9-C4	-8.27	1.31	1.38
1	N	1290	G	C8-N7	-8.27	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	309	A	N7-C5	-8.27	1.34	1.39
1	N	933	G	N1-C2	8.27	1.44	1.37
1	N	465	A	N9-C8	-8.27	1.31	1.37
1	N	247	G	N7-C5	-8.27	1.34	1.39
1	N	170	U	C2-N3	8.27	1.43	1.37
1	N	388	G	C8-N7	-8.27	1.25	1.30
1	N	1318	A	C2-N3	8.27	1.41	1.33
1	N	452	A	C6-N1	8.27	1.41	1.35
1	N	514	C	C4-C5	-8.27	1.36	1.43
1	N	640	A	C6-N1	8.27	1.41	1.35
1	N	1517	G	P-O5'	8.27	1.68	1.59
1	N	781	A	N7-C5	-8.26	1.34	1.39
1	N	814	A	C6-N6	8.26	1.40	1.33
1	N	89	U	C5'-C4'	8.26	1.61	1.51
1	N	1183	U	C4-C5	8.26	1.50	1.43
1	N	1235	U	C1'-N1	8.26	1.61	1.48
1	N	1375	A	P-O5'	-8.26	1.51	1.59
1	N	618	C	C4'-C3'	-8.25	1.44	1.53
1	N	434	U	C2-N3	8.25	1.43	1.37
1	N	1149	C	C4'-O4'	-8.25	1.34	1.45
1	N	165	G	N7-C5	-8.24	1.34	1.39
1	N	524	G	N3-C4	-8.24	1.29	1.35
1	N	739	C	C2-N3	8.24	1.42	1.35
1	N	1135	U	N1-C6	8.24	1.45	1.38
1	N	1222	G	C6-N1	8.24	1.45	1.39
1	N	351	G	N7-C5	-8.23	1.34	1.39
1	N	838	G	N7-C5	-8.23	1.34	1.39
1	N	1461	G	C6-N1	8.23	1.45	1.39
1	N	907	A	C5-C4	8.23	1.44	1.38
1	N	1110	A	N7-C5	-8.23	1.34	1.39
1	N	1124	G	N1-C2	8.23	1.44	1.37
1	N	223	A	C4'-C3'	-8.22	1.44	1.53
1	N	1507	A	N9-C4	8.22	1.42	1.37
1	N	612	C	C2-N3	8.22	1.42	1.35
1	N	231	U	C4'-O4'	-8.22	1.34	1.45
1	N	144	G	C5-C4	-8.21	1.32	1.38
1	N	713	G	C8-N7	-8.21	1.26	1.30
1	N	923	A	N9-C4	-8.21	1.32	1.37
1	N	521	G	C3'-C2'	8.21	1.61	1.52
1	N	543	U	C2-N3	8.21	1.43	1.37
1	N	1042	A	N3-C4	-8.21	1.29	1.34
1	N	902	G	N7-C5	-8.21	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	609	A	C6-N1	8.20	1.41	1.35
1	N	533	A	C8-N7	8.20	1.37	1.31
1	N	1251	A	N9-C4	-8.20	1.32	1.37
1	N	217	C	N3-C4	8.20	1.39	1.33
1	N	609	A	C8-N7	-8.19	1.25	1.31
1	N	1291	U	C4-C5	8.19	1.50	1.43
1	N	1383	C	N3-C4	8.19	1.39	1.33
1	N	1089	G	C2-N3	8.19	1.39	1.32
1	N	1050	G	C6-N1	8.19	1.45	1.39
1	N	1455	G	C2-N3	8.19	1.39	1.32
1	N	37	U	C4-C5	-8.18	1.36	1.43
1	N	908	A	C5'-C4'	8.18	1.61	1.51
1	N	1002	G	C2-N3	8.18	1.39	1.32
1	N	1000	A	C6-N6	8.18	1.40	1.33
1	N	1407	C	N1-C6	8.18	1.42	1.37
1	N	91	U	O3'-P	-8.17	1.51	1.61
1	N	64	G	C8-N7	-8.17	1.26	1.30
1	N	608	A	C6-N6	8.16	1.40	1.33
1	N	52	C	N1-C6	8.16	1.42	1.37
1	N	1517	G	C5-C4	-8.16	1.32	1.38
1	N	594	U	N3-C4	8.16	1.45	1.38
1	N	1312	G	N9-C4	-8.16	1.31	1.38
1	N	155	A	N9-C4	-8.16	1.32	1.37
1	N	412	A	C6-N6	8.16	1.40	1.33
1	N	790	A	N7-C5	-8.15	1.34	1.39
1	N	845	A	N3-C4	-8.15	1.29	1.34
1	N	627	G	C2-N3	8.15	1.39	1.32
1	N	344	A	C6-N1	8.15	1.41	1.35
1	N	1411	C	C4-C5	8.15	1.49	1.43
1	N	1370	G	N7-C5	-8.14	1.34	1.39
1	N	1265	C	C5'-C4'	8.14	1.61	1.51
1	N	847	G	C5-C4	8.14	1.44	1.38
1	N	1390	U	C4-C5	8.14	1.50	1.43
1	N	1260	G	N7-C5	-8.13	1.34	1.39
1	N	1456	A	C6-N6	8.13	1.40	1.33
1	N	425	G	C2-N3	8.13	1.39	1.32
1	N	579	A	C6-N1	8.13	1.41	1.35
1	N	676	A	C3'-C2'	8.13	1.61	1.52
1	N	560	A	N9-C4	8.13	1.42	1.37
1	N	880	C	C4-N4	8.13	1.41	1.33
1	N	102	G	N7-C5	-8.12	1.34	1.39
1	N	759	A	N1-C2	-8.12	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1397	C	N1-C6	8.12	1.42	1.37
1	N	297	G	C3'-C2'	-8.12	1.43	1.52
1	N	609	A	N7-C5	-8.12	1.34	1.39
1	N	628	G	C5-C4	8.12	1.44	1.38
1	N	909	A	N3-C4	-8.12	1.29	1.34
1	N	981	U	C2'-C1'	-8.12	1.44	1.53
1	N	1441	A	N7-C5	-8.12	1.34	1.39
1	N	144	G	C5-C6	-8.12	1.34	1.42
1	N	819	A	C5'-C4'	8.11	1.61	1.51
1	N	141	G	P-O5'	8.11	1.67	1.59
1	N	596	A	C5-C6	-8.11	1.33	1.41
1	N	918	A	N3-C4	-8.11	1.29	1.34
1	N	1022	A	C6-N6	8.11	1.40	1.33
1	N	1437	A	C5-C6	-8.11	1.33	1.41
1	N	568	G	N1-C2	8.11	1.44	1.37
1	N	6	G	N7-C5	-8.10	1.34	1.39
1	N	83	C	N3-C4	8.10	1.39	1.33
1	N	939	G	N7-C5	-8.10	1.34	1.39
1	N	468	A	N3-C4	8.10	1.39	1.34
1	N	26	A	N3-C4	-8.10	1.29	1.34
1	N	1290	G	N7-C5	-8.10	1.34	1.39
1	N	1459	G	C6-N1	8.10	1.45	1.39
1	N	218	U	C4-C5	8.09	1.50	1.43
1	N	400	C	C4-C5	8.09	1.49	1.43
1	N	885	G	C6-N1	8.09	1.45	1.39
1	N	876	C	C4-N4	8.09	1.41	1.33
1	N	936	C	C1'-N1	8.09	1.60	1.48
1	N	1395	C	C4-N4	8.09	1.41	1.33
1	N	1441	A	C5-C6	8.09	1.48	1.41
1	N	1063	C	C3'-C2'	8.09	1.61	1.52
1	N	1429	A	N9-C4	8.09	1.42	1.37
1	N	639	G	N7-C5	-8.09	1.34	1.39
1	N	1365	G	N9-C4	8.09	1.44	1.38
1	N	1432	G	C5-C4	8.08	1.44	1.38
1	N	457	G	C6-N1	8.08	1.45	1.39
1	N	1163	A	N7-C5	-8.08	1.34	1.39
1	N	353	A	N9-C4	-8.07	1.33	1.37
1	N	1316	G	C2-N3	8.07	1.39	1.32
1	N	144	G	C6-N1	8.07	1.45	1.39
1	N	1014	A	C6-N1	8.07	1.41	1.35
1	N	79	G	C5'-C4'	8.07	1.61	1.51
1	N	18	C	N3-C4	8.07	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	34	C	C4-N4	8.06	1.41	1.33
1	N	1196	A	N9-C4	8.06	1.42	1.37
1	N	81	A	C6-N1	8.06	1.41	1.35
1	N	189	A	C5'-C4'	8.06	1.61	1.51
1	N	386	C	C4-N4	8.06	1.41	1.33
1	N	794	A	C6-N1	8.06	1.41	1.35
1	N	907	A	N3-C4	-8.06	1.30	1.34
1	N	610	U	C2-N3	8.06	1.43	1.37
1	N	1530	G	C4'-C3'	8.06	1.62	1.53
1	N	289	G	C8-N7	-8.05	1.26	1.30
1	N	201	G	N9-C8	8.05	1.43	1.37
1	N	558	G	C6-N1	8.05	1.45	1.39
1	N	545	C	C2-N3	-8.05	1.29	1.35
1	N	920	U	N3-C4	8.05	1.45	1.38
1	N	1316	G	N7-C5	-8.05	1.34	1.39
1	N	1447	A	N1-C2	-8.05	1.27	1.34
1	N	616	G	C3'-C2'	8.04	1.61	1.52
1	N	1004	A	C5-C4	8.04	1.44	1.38
1	N	106	C	C2'-C1'	-8.04	1.44	1.53
1	N	535	A	N7-C5	-8.04	1.34	1.39
1	N	579	A	C5'-C4'	8.04	1.60	1.51
1	N	693	G	C6-N1	8.04	1.45	1.39
1	N	1046	A	N3-C4	-8.04	1.30	1.34
1	N	731	G	C2-N2	8.04	1.42	1.34
1	N	1361	G	C6-N1	8.04	1.45	1.39
1	N	22	G	C2-N3	8.03	1.39	1.32
1	N	693	G	C2-N3	8.03	1.39	1.32
1	N	1245	C	P-O5'	-8.03	1.51	1.59
1	N	1343	G	C5-C6	-8.03	1.34	1.42
1	N	1475	G	N1-C2	8.03	1.44	1.37
1	N	101	A	C6-N6	8.03	1.40	1.33
1	N	1409	C	C4-C5	8.03	1.49	1.43
1	N	419	C	C2'-C1'	-8.02	1.44	1.53
1	N	551	U	C2-N3	8.02	1.43	1.37
1	N	373	A	C2'-C1'	-8.02	1.44	1.53
1	N	695	A	N9-C8	-8.02	1.31	1.37
1	N	714	G	N7-C5	-8.02	1.34	1.39
1	N	708	C	N1-C6	-8.02	1.32	1.37
1	N	1187	G	C6-N1	8.02	1.45	1.39
1	N	791	G	N1-C2	8.01	1.44	1.37
1	N	1413	A	C2'-C1'	-8.01	1.44	1.53
1	N	1127	G	C4'-O4'	8.01	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	26	A	C6-N6	8.01	1.40	1.33
1	N	237	G	N1-C2	8.01	1.44	1.37
1	N	946	A	N7-C5	-8.01	1.34	1.39
1	N	762	U	N3-C4	8.00	1.45	1.38
1	N	431	A	C4'-C3'	8.00	1.61	1.53
1	N	646	G	C2-N3	8.00	1.39	1.32
1	N	1004	A	C6-N1	8.00	1.41	1.35
1	N	162	A	N7-C5	-8.00	1.34	1.39
1	N	632	U	N1-C2	8.00	1.45	1.38
1	N	969	A	N3-C4	-8.00	1.30	1.34
1	N	1153	G	N9-C8	8.00	1.43	1.37
1	N	292	G	N3-C4	-7.99	1.29	1.35
1	N	413	G	C6-N1	7.99	1.45	1.39
1	N	1151	A	P-O5'	-7.99	1.51	1.59
1	N	667	G	C5-C6	7.99	1.50	1.42
1	N	1020	G	N1-C2	7.99	1.44	1.37
1	N	483	C	N3-C4	7.99	1.39	1.33
1	N	498	A	C5-C4	-7.99	1.33	1.38
1	N	642	A	N9-C4	7.99	1.42	1.37
1	N	1245	C	C4-N4	7.99	1.41	1.33
1	N	88	U	C2-O2	7.99	1.29	1.22
1	N	332	G	N7-C5	-7.99	1.34	1.39
1	N	1457	G	C2-N3	7.99	1.39	1.32
1	N	318	G	O3'-P	7.98	1.70	1.61
1	N	985	C	P-O5'	-7.98	1.51	1.59
1	N	509	A	N7-C5	-7.98	1.34	1.39
1	N	698	G	C2-N3	7.98	1.39	1.32
1	N	1072	G	C6-N1	7.98	1.45	1.39
1	N	1371	G	C6-O6	-7.98	1.17	1.24
1	N	700	G	C5-C6	7.97	1.50	1.42
1	N	693	G	N1-C2	7.97	1.44	1.37
1	N	730	G	C2-N2	7.97	1.42	1.34
1	N	115	G	N7-C5	-7.97	1.34	1.39
1	N	1008	U	N3-C4	7.97	1.45	1.38
1	N	139	A	C6-N1	7.96	1.41	1.35
1	N	793	U	O3'-P	-7.96	1.51	1.61
1	N	692	U	C2-N3	7.96	1.43	1.37
1	N	1026	G	C6-N1	7.96	1.45	1.39
1	N	1183	U	C2-N3	7.96	1.43	1.37
1	N	1001	C	N3-C4	7.96	1.39	1.33
1	N	1068	G	N3-C4	-7.96	1.29	1.35
1	N	207	C	C1'-N1	7.96	1.60	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	212	G	N7-C5	-7.96	1.34	1.39
1	N	443	C	N1-C2	-7.96	1.32	1.40
1	N	11	G	N9-C8	-7.96	1.32	1.37
1	N	102	G	N3-C4	-7.96	1.29	1.35
1	N	520	A	C6-N1	7.96	1.41	1.35
1	N	461	A	C5-C4	7.96	1.44	1.38
1	N	888	G	O3'-P	-7.95	1.51	1.61
1	N	1042	A	P-O5'	-7.95	1.51	1.59
1	N	172	A	C6-N1	7.94	1.41	1.35
1	N	585	G	N9-C4	-7.94	1.31	1.38
1	N	983	A	C2-N3	7.94	1.40	1.33
1	N	347	G	N9-C8	7.94	1.43	1.37
1	N	280	C	C4-N4	7.94	1.41	1.33
1	N	416	G	N9-C4	-7.93	1.31	1.38
1	N	254	G	C6-N1	7.93	1.45	1.39
1	N	796	C	C4-N4	7.93	1.41	1.33
1	N	1157	A	C8-N7	7.93	1.37	1.31
1	N	925	G	O3'-P	-7.92	1.51	1.61
1	N	412	A	N7-C5	-7.92	1.34	1.39
1	N	915	A	N3-C4	7.92	1.39	1.34
1	N	1229	A	N7-C5	-7.92	1.34	1.39
1	N	242	G	P-O5'	-7.92	1.51	1.59
1	N	335	C	N1-C6	7.92	1.42	1.37
1	N	696	A	C2-N3	7.92	1.40	1.33
1	N	1153	G	C8-N7	7.92	1.35	1.30
1	N	174	A	P-O5'	-7.91	1.51	1.59
1	N	168	G	N1-C2	7.91	1.44	1.37
1	N	763	G	C5'-C4'	7.91	1.60	1.51
1	N	263	A	N7-C5	-7.91	1.34	1.39
1	N	1123	U	C2-N3	7.91	1.43	1.37
1	N	866	C	C2-N3	7.90	1.42	1.35
1	N	1318	A	C6-N6	7.90	1.40	1.33
1	N	217	C	C4-C5	-7.90	1.36	1.43
1	N	1192	C	C4-N4	7.90	1.41	1.33
1	N	1421	G	N1-C2	7.90	1.44	1.37
1	N	64	G	N1-C2	7.90	1.44	1.37
1	N	1513	A	C6-N1	7.89	1.41	1.35
1	N	1222	G	C2'-C1'	-7.89	1.44	1.53
1	N	1248	A	P-O5'	-7.89	1.51	1.59
1	N	528	C	C4'-C3'	7.88	1.61	1.53
1	N	175	C	C3'-C2'	7.88	1.61	1.52
1	N	507	C	N1-C2	-7.88	1.32	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	656	G	C6-N1	7.88	1.45	1.39
1	N	1395	C	C4-C5	7.88	1.49	1.43
1	N	1511	G	C8-N7	7.88	1.35	1.30
1	N	570	G	C4'-C3'	7.88	1.61	1.53
1	N	1064	G	N1-C2	7.88	1.44	1.37
1	N	1486	G	O4'-C1'	7.88	1.51	1.41
1	N	320	A	N7-C5	7.87	1.44	1.39
1	N	947	G	N7-C5	-7.87	1.34	1.39
1	N	443	C	C2-N3	7.87	1.42	1.35
1	N	1358	U	C1'-N1	7.87	1.60	1.48
1	N	361	G	C5-C4	7.87	1.43	1.38
1	N	461	A	C2-N3	7.87	1.40	1.33
1	N	973	G	C5-C4	7.87	1.43	1.38
1	N	1522	U	N1-C6	7.87	1.45	1.38
1	N	854	U	C2'-C1'	-7.87	1.44	1.53
1	N	420	U	O3'-P	-7.86	1.51	1.61
1	N	397	A	N9-C4	7.86	1.42	1.37
1	N	747	A	N7-C5	-7.86	1.34	1.39
1	N	720	C	C5'-C4'	7.86	1.60	1.51
1	N	285	C	C3'-C2'	-7.86	1.44	1.52
1	N	318	G	N1-C2	7.86	1.44	1.37
1	N	542	G	C2-N3	7.85	1.39	1.32
1	N	1309	G	N9-C8	7.85	1.43	1.37
1	N	485	U	C4-C5	7.85	1.50	1.43
1	N	559	A	C5-C4	7.85	1.44	1.38
1	N	1099	G	N9-C8	-7.85	1.32	1.37
1	N	1189	U	N3-C4	7.84	1.45	1.38
1	N	181	A	N1-C2	-7.84	1.27	1.34
1	N	318	G	N7-C5	-7.84	1.34	1.39
1	N	690	G	N9-C4	7.84	1.44	1.38
1	N	174	A	N7-C5	-7.84	1.34	1.39
1	N	224	U	N1-C2	7.84	1.45	1.38
1	N	46	G	C2-N2	7.83	1.42	1.34
1	N	752	G	C6-N1	7.83	1.45	1.39
1	N	542	G	C5'-C4'	7.83	1.60	1.51
1	N	544	G	N9-C8	7.83	1.43	1.37
1	N	1441	A	C3'-C2'	-7.83	1.44	1.52
1	N	596	A	N9-C8	-7.83	1.31	1.37
1	N	1136	C	N1-C6	-7.83	1.32	1.37
1	N	1378	C	C5-C6	7.83	1.40	1.34
1	N	857	C	C3'-O3'	7.82	1.53	1.42
1	N	632	U	C4'-C3'	7.82	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	818	G	C6-N1	7.82	1.45	1.39
1	N	895	G	P-O5'	-7.82	1.51	1.59
1	N	1494	G	C6-N1	7.82	1.45	1.39
1	N	50	A	C6-N6	7.81	1.40	1.33
1	N	1062	U	C2'-C1'	-7.81	1.44	1.53
1	N	470	C	N3-C4	7.81	1.39	1.33
1	N	965	U	C4-C5	-7.81	1.36	1.43
1	N	881	G	N3-C4	7.81	1.41	1.35
1	N	1050	G	C2-N3	7.81	1.39	1.32
1	N	641	U	C4-C5	7.81	1.50	1.43
1	N	769	G	C4'-C3'	-7.81	1.44	1.53
1	N	1228	C	N3-C4	7.81	1.39	1.33
1	N	909	A	N7-C5	-7.80	1.34	1.39
1	N	1342	C	N3-C4	7.80	1.39	1.33
1	N	134	G	C5'-C4'	7.80	1.60	1.51
1	N	764	C	C4'-C3'	7.80	1.61	1.53
1	N	980	C	N3-C4	7.80	1.39	1.33
1	N	752	G	C2-N2	7.80	1.42	1.34
1	N	893	C	N3-C4	7.80	1.39	1.33
1	N	1433	A	N9-C8	7.80	1.44	1.37
1	N	118	U	P-O5'	-7.80	1.51	1.59
1	N	557	G	C2-N2	7.80	1.42	1.34
1	N	770	C	C4'-O4'	7.80	1.55	1.45
1	N	1058	G	C5-C6	-7.80	1.34	1.42
1	N	759	A	N7-C5	-7.79	1.34	1.39
1	N	975	A	C6-N1	7.79	1.41	1.35
1	N	1367	C	O3'-P	-7.79	1.51	1.61
1	N	1281	C	C2-O2	-7.79	1.17	1.24
1	N	500	G	C5-C4	7.78	1.43	1.38
1	N	1499	A	N7-C5	-7.78	1.34	1.39
1	N	1468	A	N3-C4	-7.78	1.30	1.34
1	N	1469	C	C2-N3	7.78	1.42	1.35
1	N	1191	A	C2-N3	7.77	1.40	1.33
1	N	1471	U	N1-C2	7.77	1.45	1.38
1	N	1131	G	C2-N3	7.77	1.39	1.32
1	N	247	G	C2-N3	7.77	1.39	1.32
1	N	427	U	C2-N3	7.77	1.43	1.37
1	N	490	C	N3-C4	7.77	1.39	1.33
1	N	655	A	N1-C2	7.77	1.41	1.34
1	N	805	C	O3'-P	-7.77	1.51	1.61
1	N	1063	C	O4'-C1'	7.77	1.51	1.41
1	N	808	C	C5'-C4'	7.76	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	931	C	N1-C6	7.76	1.41	1.37
1	N	1166	G	C2'-C1'	-7.76	1.44	1.53
1	N	1071	C	N1-C6	7.76	1.41	1.37
1	N	972	C	C2'-C1'	-7.75	1.44	1.53
1	N	972	C	C4'-C3'	7.75	1.61	1.53
1	N	793	U	C2-N3	7.75	1.43	1.37
1	N	928	G	C6-N1	7.75	1.45	1.39
1	N	23	C	C2'-C1'	-7.74	1.44	1.53
1	N	276	G	P-O5'	-7.74	1.52	1.59
1	N	1471	U	C2-N3	7.74	1.43	1.37
1	N	211	G	C4'-C3'	-7.74	1.44	1.53
1	N	116	A	C6-N6	7.74	1.40	1.33
1	N	545	C	C4-C5	-7.74	1.36	1.43
1	N	250	A	C8-N7	-7.74	1.26	1.31
1	N	1186	G	N7-C5	-7.74	1.34	1.39
1	N	70	U	C3'-C2'	7.74	1.61	1.52
1	N	146	G	N7-C5	-7.73	1.34	1.39
1	N	814	A	N7-C5	-7.73	1.34	1.39
1	N	248	C	C5'-C4'	7.73	1.60	1.51
1	N	1487	G	P-O5'	-7.73	1.52	1.59
1	N	822	U	C2-N3	7.73	1.43	1.37
1	N	913	A	N9-C4	-7.73	1.33	1.37
1	N	1206	G	C2-N3	7.73	1.39	1.32
1	N	1524	C	O3'-P	-7.73	1.51	1.61
1	N	19	A	C6-N1	-7.73	1.30	1.35
1	N	536	C	C2-N3	-7.73	1.29	1.35
1	N	115	G	C6-N1	7.72	1.45	1.39
1	N	214	C	N3-C4	7.72	1.39	1.33
1	N	730	G	C8-N7	-7.72	1.26	1.30
1	N	1164	G	C8-N7	-7.72	1.26	1.30
1	N	1360	A	C6-N6	7.72	1.40	1.33
1	N	908	A	C6-N1	7.72	1.41	1.35
1	N	196	A	N1-C2	7.71	1.41	1.34
1	N	542	G	N3-C4	-7.71	1.30	1.35
1	N	1378	C	C4-C5	-7.71	1.36	1.43
1	N	770	C	C2-N3	7.71	1.42	1.35
1	N	1232	U	N3-C4	7.71	1.45	1.38
1	N	1356	G	N1-C2	7.71	1.44	1.37
1	N	540	G	C8-N7	-7.71	1.26	1.30
1	N	1354	U	C4-C5	7.71	1.50	1.43
1	N	527	G	C5'-C4'	7.70	1.60	1.51
1	N	348	G	C6-N1	7.70	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	755	G	C6-N1	7.70	1.45	1.39
1	N	310	G	C4'-C3'	7.70	1.61	1.53
1	N	792	A	C1'-N9	-7.70	1.36	1.46
1	N	368	U	C2-N3	7.69	1.43	1.37
1	N	1482	G	C2-N3	7.69	1.39	1.32
1	N	1175	G	N1-C2	7.69	1.44	1.37
1	N	177	G	C2-N3	7.69	1.38	1.32
1	N	435	A	N3-C4	-7.68	1.30	1.34
1	N	446	G	N1-C2	7.68	1.43	1.37
1	N	204	G	C5-C6	-7.68	1.34	1.42
1	N	715	A	N7-C5	-7.68	1.34	1.39
1	N	441	A	C6-N6	7.67	1.40	1.33
1	N	667	G	O3'-P	-7.67	1.51	1.61
1	N	157	U	N3-C4	7.67	1.45	1.38
1	N	587	G	N9-C4	-7.67	1.31	1.38
1	N	909	A	C5'-C4'	7.67	1.60	1.51
1	N	34	C	C4'-C3'	-7.66	1.44	1.53
1	N	847	G	N9-C8	7.66	1.43	1.37
1	N	859	G	N9-C8	-7.66	1.32	1.37
1	N	877	G	C4'-O4'	-7.66	1.35	1.45
1	N	1179	A	N9-C8	7.66	1.43	1.37
1	N	165	G	C5'-C4'	7.66	1.60	1.51
1	N	349	A	P-O5'	-7.66	1.52	1.59
1	N	348	G	N1-C2	7.66	1.43	1.37
1	N	487	A	C2'-C1'	7.66	1.61	1.53
1	N	411	A	C6-N1	7.65	1.41	1.35
1	N	1286	U	N1-C2	7.65	1.45	1.38
1	N	609	A	C2'-C1'	-7.65	1.45	1.53
1	N	677	U	N3-C4	7.65	1.45	1.38
1	N	771	G	N1-C2	7.65	1.43	1.37
1	N	1099	G	N9-C4	-7.65	1.31	1.38
1	N	262	A	N7-C5	-7.64	1.34	1.39
1	N	1294	G	N7-C5	-7.64	1.34	1.39
1	N	1320	C	C1'-N1	7.64	1.60	1.48
1	N	947	G	N9-C4	7.64	1.44	1.38
1	N	520	A	C5'-C4'	7.64	1.60	1.51
1	N	709	U	P-O5'	-7.64	1.52	1.59
1	N	1077	G	C2-N2	7.64	1.42	1.34
1	N	361	G	N1-C2	7.63	1.43	1.37
1	N	615	G	C2-N3	7.63	1.38	1.32
1	N	674	G	N3-C4	-7.63	1.30	1.35
1	N	172	A	O4'-C1'	7.63	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1232	U	C5'-C4'	7.63	1.60	1.51
1	N	88	U	N1-C6	7.63	1.44	1.38
1	N	321	A	C5'-C4'	7.63	1.60	1.51
1	N	1275	A	N3-C4	-7.63	1.30	1.34
1	N	1204	A	N1-C2	-7.63	1.27	1.34
1	N	1274	A	C6-N6	7.63	1.40	1.33
1	N	1394	A	C2'-C1'	-7.62	1.45	1.53
1	N	1414	U	O3'-P	-7.62	1.52	1.61
1	N	11	G	N9-C4	-7.62	1.31	1.38
1	N	1411	C	C2-N3	7.62	1.41	1.35
1	N	197	A	C6-N6	7.62	1.40	1.33
1	N	521	G	N1-C2	7.62	1.43	1.37
1	N	990	C	C3'-C2'	-7.62	1.44	1.52
1	N	1152	A	C5-C4	7.62	1.44	1.38
1	N	1170	A	C4'-O4'	-7.62	1.35	1.45
1	N	1218	C	N3-C4	7.62	1.39	1.33
1	N	258	G	C4'-C3'	7.62	1.61	1.53
1	N	907	A	N7-C5	7.62	1.43	1.39
1	N	1025	U	C2'-C1'	-7.62	1.45	1.53
1	N	568	G	P-O5'	7.61	1.67	1.59
1	N	866	C	N1-C6	-7.61	1.32	1.37
1	N	1013	G	C5'-C4'	7.61	1.60	1.51
1	N	546	A	N3-C4	7.61	1.39	1.34
1	N	752	G	N9-C4	-7.61	1.31	1.38
1	N	1061	G	N1-C2	7.61	1.43	1.37
1	N	822	U	C5'-C4'	7.61	1.60	1.51
1	N	994	A	C6-N1	7.61	1.40	1.35
1	N	1141	C	N3-C4	7.61	1.39	1.33
1	N	1236	A	N3-C4	-7.61	1.30	1.34
1	N	80	A	C6-N1	7.61	1.40	1.35
1	N	1248	A	C2'-C1'	-7.61	1.45	1.53
1	N	1463	U	C2'-C1'	-7.61	1.45	1.53
1	N	143	A	N9-C8	7.60	1.43	1.37
1	N	957	U	N3-C4	7.60	1.45	1.38
1	N	1338	G	C2-N3	7.60	1.38	1.32
1	N	658	C	C4-N4	7.60	1.40	1.33
1	N	1242	G	N7-C5	-7.60	1.34	1.39
1	N	94	G	P-O5'	7.60	1.67	1.59
1	N	293	G	C2-N3	7.60	1.38	1.32
1	N	1530	G	P-O5'	7.60	1.67	1.59
1	N	252	U	C1'-N1	7.59	1.60	1.48
1	N	1266	G	C2'-C1'	-7.59	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	658	C	P-O5'	-7.59	1.52	1.59
1	N	768	A	N7-C5	-7.59	1.34	1.39
1	N	227	G	N9-C8	7.59	1.43	1.37
1	N	918	A	C3'-O3'	7.59	1.52	1.42
1	N	530	G	N9-C8	7.59	1.43	1.37
1	N	220	G	C2-N3	7.59	1.38	1.32
1	N	515	G	C5-C4	7.59	1.43	1.38
1	N	647	C	N1-C6	7.59	1.41	1.37
1	N	1075	U	C1'-N1	7.59	1.60	1.48
1	N	360	G	C6-N1	7.58	1.44	1.39
1	N	704	A	C6-N1	7.58	1.40	1.35
1	N	251	G	C5-C6	-7.58	1.34	1.42
1	N	891	U	N3-C4	7.58	1.45	1.38
1	N	578	C	C1'-N1	7.58	1.60	1.48
1	N	1084	G	C2-N3	7.58	1.38	1.32
1	N	1142	G	C2-N2	7.57	1.42	1.34
1	N	773	G	C2-N3	7.57	1.38	1.32
1	N	776	G	P-O5'	-7.57	1.52	1.59
1	N	185	U	O3'-P	-7.57	1.52	1.61
1	N	575	G	N3-C4	-7.56	1.30	1.35
1	N	918	A	N9-C8	-7.56	1.31	1.37
1	N	1488	G	N7-C5	-7.56	1.34	1.39
1	N	227	G	N7-C5	-7.56	1.34	1.39
1	N	578	C	C5-C6	-7.56	1.28	1.34
1	N	376	G	N3-C4	-7.56	1.30	1.35
1	N	830	G	P-O5'	-7.56	1.52	1.59
1	N	267	C	C2-O2	7.55	1.31	1.24
1	N	766	A	C6-N6	7.55	1.40	1.33
1	N	903	G	C5-C4	7.55	1.43	1.38
1	N	346	G	C8-N7	-7.55	1.26	1.30
1	N	925	G	C5'-C4'	7.55	1.60	1.51
1	N	962	C	C2-N3	7.55	1.41	1.35
1	N	683	G	N9-C8	7.55	1.43	1.37
1	N	1215	G	O3'-P	-7.55	1.52	1.61
1	N	39	G	C4'-O4'	-7.54	1.35	1.45
1	N	43	C	C4-N4	7.54	1.40	1.33
1	N	673	A	C4'-C3'	7.54	1.61	1.53
1	N	1204	A	N9-C8	-7.54	1.31	1.37
1	N	1453	G	C3'-C2'	7.54	1.61	1.52
1	N	724	G	C2-N2	7.54	1.42	1.34
1	N	1012	A	C3'-C2'	-7.54	1.44	1.52
1	N	1227	A	C6-N6	7.54	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	367	U	N3-C4	7.53	1.45	1.38
1	N	1139	G	N1-C2	7.53	1.43	1.37
1	N	1479	C	C4-C5	-7.53	1.36	1.43
1	N	1198	G	C2-N3	7.53	1.38	1.32
1	N	684	U	C1'-N1	7.53	1.60	1.48
1	N	1105	A	C4'-C3'	-7.53	1.44	1.53
1	N	1309	G	N1-C2	7.53	1.43	1.37
1	N	1003	G	C8-N7	7.53	1.35	1.30
1	N	795	C	N1-C2	-7.52	1.32	1.40
1	N	1449	C	C4-N4	7.52	1.40	1.33
1	N	464	U	C5'-C4'	7.52	1.60	1.51
1	N	10	A	C6-N1	7.52	1.40	1.35
1	N	572	A	N9-C8	7.52	1.43	1.37
1	N	756	C	C4-N4	7.52	1.40	1.33
1	N	946	A	C6-N1	7.52	1.40	1.35
1	N	1486	G	N9-C4	-7.52	1.31	1.38
1	N	17	U	C2-N3	7.51	1.43	1.37
1	N	75	G	C8-N7	-7.51	1.26	1.30
1	N	1085	U	N1-C6	7.51	1.44	1.38
1	N	307	C	N1-C6	7.51	1.41	1.37
1	N	414	A	O3'-P	-7.51	1.52	1.61
1	N	840	C	C4'-C3'	7.51	1.61	1.53
1	N	883	C	N3-C4	7.51	1.39	1.33
1	N	1499	A	N3-C4	-7.51	1.30	1.34
1	N	499	A	O3'-P	-7.50	1.52	1.61
1	N	481	G	C4'-C3'	7.50	1.61	1.53
1	N	747	A	N9-C4	-7.50	1.33	1.37
1	N	252	U	O3'-P	-7.50	1.52	1.61
1	N	550	G	C6-N1	7.50	1.44	1.39
1	N	784	A	C4'-O4'	7.50	1.55	1.45
1	N	1252	A	N9-C4	7.50	1.42	1.37
1	N	1354	U	C5'-C4'	7.50	1.60	1.51
1	N	1331	G	N7-C5	7.49	1.43	1.39
1	N	434	U	C1'-N1	7.49	1.59	1.48
1	N	621	A	N3-C4	-7.49	1.30	1.34
1	N	193	C	C5'-C4'	7.49	1.60	1.51
1	N	293	G	O3'-P	-7.49	1.52	1.61
1	N	1332	A	N7-C5	-7.49	1.34	1.39
1	N	932	C	C4-C5	7.48	1.49	1.43
1	N	130	A	N7-C5	-7.48	1.34	1.39
1	N	1078	U	O3'-P	-7.48	1.52	1.61
1	N	1143	G	C5-C4	7.48	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1376	U	C2'-C1'	-7.48	1.45	1.53
1	N	808	C	C4-N4	7.48	1.40	1.33
1	N	1415	G	N1-C2	7.48	1.43	1.37
1	N	976	G	N9-C8	7.47	1.43	1.37
1	N	224	U	O4'-C1'	7.47	1.51	1.41
1	N	1284	C	N1-C6	7.47	1.41	1.37
1	N	346	G	N1-C2	7.47	1.43	1.37
1	N	876	C	O3'-P	-7.47	1.52	1.61
1	N	909	A	C8-N7	-7.47	1.26	1.31
1	N	1380	U	C2-N3	7.47	1.43	1.37
1	N	1019	A	C5'-C4'	7.46	1.60	1.51
1	N	915	A	N7-C5	-7.46	1.34	1.39
1	N	1300	G	N3-C4	-7.46	1.30	1.35
1	N	175	C	C4-N4	7.46	1.40	1.33
1	N	78	A	C2-N3	7.46	1.40	1.33
1	N	584	G	C5-C4	-7.46	1.33	1.38
1	N	691	G	C3'-C2'	7.46	1.61	1.52
1	N	995	C	N1-C6	7.46	1.41	1.37
1	N	1251	A	N9-C8	7.46	1.43	1.37
1	N	225	C	N3-C4	7.45	1.39	1.33
1	N	308	C	N1-C2	-7.45	1.32	1.40
1	N	961	U	C4'-C3'	7.45	1.61	1.53
1	N	180	U	O3'-P	-7.45	1.52	1.61
1	N	731	G	N9-C8	-7.45	1.32	1.37
1	N	829	G	N1-C2	7.45	1.43	1.37
1	N	841	C	P-O5'	-7.45	1.52	1.59
1	N	959	A	O3'-P	-7.45	1.52	1.61
1	N	1237	C	C4-N4	7.45	1.40	1.33
1	N	324	G	N1-C2	7.44	1.43	1.37
1	N	526	C	O4'-C1'	7.44	1.51	1.41
1	N	383	A	C6-N1	7.44	1.40	1.35
1	N	746	A	N9-C4	-7.44	1.33	1.37
1	N	834	U	C4-C5	7.44	1.50	1.43
1	N	1417	G	N7-C5	-7.44	1.34	1.39
1	N	1243	C	N3-C4	7.44	1.39	1.33
1	N	101	A	C5-C4	-7.43	1.33	1.38
1	N	168	G	O4'-C1'	7.43	1.51	1.41
1	N	217	C	N1-C6	7.43	1.41	1.37
1	N	544	G	C6-N1	7.43	1.44	1.39
1	N	5	U	C4-O4	7.43	1.29	1.23
1	N	1440	U	C4'-C3'	-7.43	1.45	1.53
1	N	378	G	N9-C8	7.42	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	416	G	P-O5'	-7.42	1.52	1.59
1	N	1263	C	P-O5'	-7.42	1.52	1.59
1	N	1446	A	N9-C4	7.42	1.42	1.37
1	N	193	C	O4'-C1'	7.42	1.51	1.41
1	N	1422	G	N9-C8	7.42	1.43	1.37
1	N	275	G	C5'-C4'	7.42	1.60	1.51
1	N	1185	G	N9-C4	-7.42	1.32	1.38
1	N	296	U	N1-C2	-7.41	1.31	1.38
1	N	607	A	C8-N7	-7.41	1.26	1.31
1	N	1238	A	C3'-C2'	-7.41	1.44	1.52
1	N	347	G	C2'-C1'	-7.41	1.45	1.53
1	N	645	G	N9-C8	-7.41	1.32	1.37
1	N	1035	A	C4'-C3'	7.41	1.61	1.53
1	N	1410	A	N3-C4	7.41	1.39	1.34
1	N	64	G	N9-C4	-7.41	1.32	1.38
1	N	606	G	C8-N7	-7.41	1.26	1.30
1	N	774	G	N1-C2	7.41	1.43	1.37
1	N	874	G	C6-N1	7.41	1.44	1.39
1	N	273	U	N1-C6	7.40	1.44	1.38
1	N	73	C	C2-N3	7.40	1.41	1.35
1	N	575	G	N9-C4	-7.40	1.32	1.38
1	N	536	C	C5'-C4'	7.40	1.60	1.51
1	N	784	A	N9-C8	-7.40	1.31	1.37
1	N	813	U	C2-N3	7.40	1.43	1.37
1	N	836	G	C2-N3	7.40	1.38	1.32
1	N	1061	G	C8-N7	-7.40	1.26	1.30
1	N	1201	A	C8-N7	7.39	1.36	1.31
1	N	1391	U	C5'-C4'	7.39	1.60	1.51
1	N	190	A	N7-C5	-7.39	1.34	1.39
1	N	886	G	C8-N7	-7.39	1.26	1.30
1	N	1483	A	N9-C4	7.39	1.42	1.37
1	N	442	G	N1-C2	7.38	1.43	1.37
1	N	1166	G	C8-N7	-7.38	1.26	1.30
1	N	1373	G	C2-N3	7.38	1.38	1.32
1	N	1438	G	N3-C4	7.38	1.40	1.35
1	N	162	A	C6-N1	7.38	1.40	1.35
1	N	656	G	N9-C8	7.38	1.43	1.37
1	N	280	C	P-O5'	-7.38	1.52	1.59
1	N	1084	G	C6-N1	7.38	1.44	1.39
1	N	1024	G	C5'-C4'	7.37	1.60	1.51
1	N	878	A	C2-N3	7.37	1.40	1.33
1	N	1242	G	N9-C4	-7.37	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	380	G	N3-C4	-7.36	1.30	1.35
1	N	461	A	C5'-C4'	7.36	1.60	1.51
1	N	1457	G	C4'-C3'	7.36	1.61	1.53
1	N	655	A	C6-N6	7.36	1.39	1.33
1	N	1143	G	C6-N1	7.36	1.44	1.39
1	N	91	U	C2'-C1'	-7.36	1.45	1.53
1	N	92	U	N1-C6	7.36	1.44	1.38
1	N	519	C	N1-C6	7.36	1.41	1.37
1	N	1252	A	N3-C4	-7.36	1.30	1.34
1	N	1422	G	N1-C2	7.36	1.43	1.37
1	N	128	G	C2'-C1'	-7.36	1.45	1.53
1	N	925	G	C2-N3	7.36	1.38	1.32
1	N	66	A	C6-N6	7.36	1.39	1.33
1	N	639	G	C6-N1	7.35	1.44	1.39
1	N	466	A	C6-N6	7.35	1.39	1.33
1	N	1213	A	C5-C4	-7.35	1.33	1.38
1	N	1134	G	C8-N7	-7.35	1.26	1.30
1	N	1405	G	N9-C8	7.35	1.43	1.37
1	N	631	C	N3-C4	7.34	1.39	1.33
1	N	1161	C	C4-N4	7.34	1.40	1.33
1	N	1292	G	C6-N1	7.34	1.44	1.39
1	N	1522	U	C2-N3	7.34	1.42	1.37
1	N	245	U	C5'-C4'	7.34	1.60	1.51
1	N	740	U	P-O5'	-7.34	1.52	1.59
1	N	382	A	C5-C4	-7.34	1.33	1.38
1	N	606	G	C6-N1	7.34	1.44	1.39
1	N	819	A	C6-N1	7.33	1.40	1.35
1	N	1235	U	N3-C4	7.33	1.45	1.38
1	N	1267	C	C4'-O4'	-7.33	1.36	1.45
1	N	856	C	N1-C6	-7.33	1.32	1.37
1	N	173	U	O3'-P	-7.33	1.52	1.61
1	N	430	A	C8-N7	-7.33	1.26	1.31
1	N	1229	A	C6-N6	7.33	1.39	1.33
1	N	518	C	N3-C4	7.33	1.39	1.33
1	N	845	A	C4'-C3'	-7.32	1.45	1.53
1	N	965	U	O4'-C1'	-7.32	1.32	1.41
1	N	773	G	N3-C4	-7.32	1.30	1.35
1	N	938	A	P-O5'	-7.32	1.52	1.59
1	N	1414	U	C3'-C2'	7.32	1.61	1.52
1	N	957	U	C2'-C1'	7.32	1.61	1.53
1	N	696	A	C5-C6	7.32	1.47	1.41
1	N	794	A	P-O5'	-7.32	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	817	C	N1-C6	7.32	1.41	1.37
1	N	899	C	C2'-C1'	-7.32	1.45	1.53
1	N	1258	G	N9-C8	7.32	1.43	1.37
1	N	245	U	C4-C5	7.32	1.50	1.43
1	N	1434	A	C5-C6	-7.32	1.34	1.41
1	N	848	C	N3-C4	7.31	1.39	1.33
1	N	77	A	C5-C4	7.31	1.43	1.38
1	N	362	G	N9-C8	7.31	1.43	1.37
1	N	896	C	N3-C4	7.31	1.39	1.33
1	N	1068	G	C1'-N9	7.31	1.59	1.48
1	N	1283	U	C1'-N1	7.31	1.59	1.48
1	N	435	A	N7-C5	-7.30	1.34	1.39
1	N	14	U	C2-N3	7.30	1.42	1.37
1	N	919	A	N7-C5	-7.30	1.34	1.39
1	N	1486	G	C2'-C1'	-7.30	1.45	1.53
1	N	1048	G	P-O5'	-7.30	1.52	1.59
1	N	411	A	C5'-C4'	7.30	1.60	1.51
1	N	1429	A	C5-C4	-7.30	1.33	1.38
1	N	678	U	N3-C4	7.30	1.45	1.38
1	N	115	G	N3-C4	7.30	1.40	1.35
1	N	577	G	N3-C4	-7.30	1.30	1.35
1	N	1016	A	C6-N6	7.29	1.39	1.33
1	N	1388	C	C5'-C4'	7.29	1.60	1.51
1	N	450	G	C2'-C1'	7.29	1.61	1.53
1	N	661	G	N1-C2	7.29	1.43	1.37
1	N	1277	C	N1-C6	7.29	1.41	1.37
1	N	31	G	C8-N7	-7.29	1.26	1.30
1	N	715	A	C6-N1	7.29	1.40	1.35
1	N	8	A	C8-N7	-7.29	1.26	1.31
1	N	369	G	C2-N3	7.29	1.38	1.32
1	N	820	U	C4'-C3'	7.29	1.61	1.53
1	N	271	C	N3-C4	7.28	1.39	1.33
1	N	829	G	C4'-C3'	7.28	1.61	1.53
1	N	195	A	C4'-C3'	7.28	1.61	1.53
1	N	371	A	N7-C5	-7.28	1.34	1.39
1	N	1109	C	C2'-C1'	-7.28	1.45	1.53
1	N	1153	G	N9-C4	7.28	1.43	1.38
1	N	413	G	C5'-C4'	7.28	1.60	1.51
1	N	1367	C	N1-C6	-7.28	1.32	1.37
1	N	745	G	N7-C5	-7.28	1.34	1.39
1	N	302	G	N3-C4	-7.28	1.30	1.35
1	N	601	G	C5'-C4'	7.28	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1312	G	C6-N1	7.28	1.44	1.39
1	N	53	A	N7-C5	-7.28	1.34	1.39
1	N	667	G	N9-C8	7.28	1.43	1.37
1	N	743	A	N3-C4	7.28	1.39	1.34
1	N	878	A	N9-C8	7.28	1.43	1.37
1	N	1171	A	N9-C4	7.28	1.42	1.37
1	N	41	G	N9-C8	-7.27	1.32	1.37
1	N	1183	U	N3-C4	7.27	1.45	1.38
1	N	72	A	N7-C5	-7.27	1.34	1.39
1	N	64	G	C2'-C1'	-7.27	1.45	1.53
1	N	243	A	N7-C5	-7.27	1.34	1.39
1	N	453	G	N3-C4	7.27	1.40	1.35
1	N	1090	U	C4-C5	7.27	1.50	1.43
1	N	1342	C	N1-C6	7.27	1.41	1.37
1	N	963	G	N9-C4	7.27	1.43	1.38
1	N	1058	G	N7-C5	-7.26	1.34	1.39
1	N	1469	C	O3'-P	-7.26	1.52	1.61
1	N	559	A	C6-N6	7.26	1.39	1.33
1	N	1019	A	P-O5'	-7.26	1.52	1.59
1	N	312	C	C5-C6	-7.26	1.28	1.34
1	N	1040	U	O3'-P	-7.26	1.52	1.61
1	N	694	A	N9-C8	7.26	1.43	1.37
1	N	1008	U	C4-O4	7.26	1.29	1.23
1	N	1307	U	C2-N3	7.26	1.42	1.37
1	N	378	G	N7-C5	-7.25	1.34	1.39
1	N	347	G	C6-N1	7.25	1.44	1.39
1	N	1259	C	P-O5'	-7.25	1.52	1.59
1	N	1437	A	N7-C5	-7.25	1.34	1.39
1	N	835	U	C2-N3	7.25	1.42	1.37
1	N	1055	A	C5'-C4'	7.25	1.60	1.51
1	N	292	G	C2-N3	7.25	1.38	1.32
1	N	214	C	C4-C5	-7.25	1.37	1.43
1	N	521	G	N7-C5	-7.25	1.34	1.39
1	N	538	G	C2-N3	7.25	1.38	1.32
1	N	378	G	N9-C4	-7.24	1.32	1.38
1	N	632	U	P-O5'	-7.24	1.52	1.59
1	N	892	A	C6-N6	7.24	1.39	1.33
1	N	1081	A	C6-N6	7.24	1.39	1.33
1	N	1335	U	C5'-C4'	7.24	1.60	1.51
1	N	101	A	N9-C4	7.24	1.42	1.37
1	N	384	G	C2'-C1'	-7.24	1.45	1.53
1	N	604	G	N1-C2	7.24	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1185	G	N9-C8	7.24	1.43	1.37
1	N	1467	C	N3-C4	7.24	1.39	1.33
1	N	700	G	C6-N1	7.23	1.44	1.39
1	N	241	G	O3'-P	-7.23	1.52	1.61
1	N	809	G	C6-O6	-7.23	1.17	1.24
1	N	90	C	C4-N4	7.23	1.40	1.33
1	N	163	C	O4'-C1'	7.23	1.51	1.41
1	N	376	G	C4'-C3'	-7.23	1.45	1.53
1	N	418	C	C3'-C2'	7.23	1.60	1.52
1	N	575	G	N7-C5	-7.23	1.34	1.39
1	N	1120	C	C2-N3	7.23	1.41	1.35
1	N	205	A	C6-N6	7.23	1.39	1.33
1	N	23	C	C5'-C4'	7.23	1.60	1.51
1	N	59	A	C6-N6	7.23	1.39	1.33
1	N	1344	C	N1-C2	-7.23	1.32	1.40
1	N	539	A	N9-C4	-7.22	1.33	1.37
1	N	666	G	P-O5'	7.22	1.67	1.59
1	N	1331	G	C5'-C4'	7.22	1.60	1.51
1	N	424	G	N7-C5	-7.22	1.34	1.39
1	N	936	C	N3-C4	7.22	1.39	1.33
1	N	121	U	C3'-C2'	-7.22	1.44	1.52
1	N	1046	A	N7-C5	-7.22	1.34	1.39
1	N	406	G	P-O5'	-7.22	1.52	1.59
1	N	1041	G	C8-N7	-7.22	1.26	1.30
1	N	1094	G	C6-N1	7.22	1.44	1.39
1	N	1308	U	C5'-C4'	7.22	1.60	1.51
1	N	172	A	O3'-P	-7.21	1.52	1.61
1	N	888	G	C8-N7	-7.21	1.26	1.30
1	N	29	U	C4-C5	7.21	1.50	1.43
1	N	820	U	C2-N3	7.21	1.42	1.37
1	N	1442	G	P-O5'	-7.21	1.52	1.59
1	N	740	U	N3-C4	7.21	1.45	1.38
1	N	1353	G	C3'-O3'	7.21	1.52	1.42
1	N	196	A	C5'-C4'	7.21	1.59	1.51
1	N	142	G	C6-N1	7.20	1.44	1.39
1	N	294	U	O3'-P	-7.20	1.52	1.61
1	N	81	A	C8-N7	-7.20	1.26	1.31
1	N	322	C	N3-C4	7.20	1.39	1.33
1	N	493	A	C5'-C4'	-7.20	1.42	1.51
1	N	513	C	C4-C5	-7.20	1.37	1.43
1	N	277	C	C2'-C1'	-7.20	1.45	1.53
1	N	880	C	C2'-C1'	-7.20	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	937	A	C8-N7	-7.19	1.26	1.31
1	N	4	U	N3-C4	7.19	1.45	1.38
1	N	622	A	O4'-C1'	7.19	1.51	1.41
1	N	1293	C	N1-C6	-7.19	1.32	1.37
1	N	107	G	N7-C5	7.19	1.43	1.39
1	N	103	U	N1-C6	7.19	1.44	1.38
1	N	714	G	N1-C2	7.19	1.43	1.37
1	N	71	A	C2-N3	7.19	1.40	1.33
1	N	299	G	N7-C5	-7.19	1.34	1.39
1	N	772	U	C4'-C3'	-7.19	1.45	1.53
1	N	1392	G	N7-C5	-7.19	1.34	1.39
1	N	498	A	N3-C4	-7.19	1.30	1.34
1	N	502	A	C6-N1	7.19	1.40	1.35
1	N	650	G	N9-C8	7.19	1.42	1.37
1	N	112	G	C2'-C1'	-7.18	1.45	1.53
1	N	873	A	N3-C4	-7.18	1.30	1.34
1	N	228	A	C6-N6	7.18	1.39	1.33
1	N	491	G	C2-N3	7.18	1.38	1.32
1	N	775	G	C2-N3	7.18	1.38	1.32
1	N	1385	G	N1-C2	7.18	1.43	1.37
1	N	567	G	N9-C4	7.18	1.43	1.38
1	N	496	A	C4'-C3'	7.17	1.61	1.53
1	N	846	G	N9-C4	-7.17	1.32	1.38
1	N	142	G	N9-C4	7.17	1.43	1.38
1	N	617	G	N9-C4	-7.17	1.32	1.38
1	N	1534	A	C6-N6	7.17	1.39	1.33
1	N	1290	G	C6-N1	7.17	1.44	1.39
1	N	59	A	N9-C4	7.17	1.42	1.37
1	N	823	C	O3'-P	-7.17	1.52	1.61
1	N	823	C	C4-N4	7.16	1.40	1.33
1	N	1151	A	N9-C4	-7.16	1.33	1.37
1	N	961	U	O4'-C1'	7.16	1.50	1.41
1	N	1191	A	N9-C8	7.16	1.43	1.37
1	N	498	A	N7-C5	-7.16	1.34	1.39
1	N	1329	A	C2-N3	7.16	1.40	1.33
1	N	301	G	C2'-C1'	-7.16	1.45	1.53
1	N	369	G	C8-N7	-7.16	1.26	1.30
1	N	1408	A	C6-N6	7.15	1.39	1.33
1	N	58	C	C4-N4	7.15	1.40	1.33
1	N	553	A	C8-N7	7.15	1.36	1.31
1	N	1307	U	N3-C4	7.15	1.44	1.38
1	N	1480	A	C5'-C4'	7.15	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1272	G	N3-C4	-7.15	1.30	1.35
1	N	536	C	N1-C6	7.15	1.41	1.37
1	N	689	C	N1-C6	7.15	1.41	1.37
1	N	273	U	P-O5'	-7.15	1.52	1.59
1	N	1083	U	C5-C6	7.15	1.40	1.34
1	N	182	A	N9-C8	7.14	1.43	1.37
1	N	428	G	N7-C5	-7.14	1.34	1.39
1	N	545	C	C5-C6	7.14	1.40	1.34
1	N	705	G	P-O5'	-7.14	1.52	1.59
1	N	1478	U	N3-C4	7.14	1.44	1.38
1	N	690	G	C8-N7	7.14	1.35	1.30
1	N	1421	G	N9-C4	-7.14	1.32	1.38
1	N	575	G	C2-N3	7.14	1.38	1.32
1	N	1037	C	P-O5'	-7.14	1.52	1.59
1	N	336	A	N3-C4	-7.14	1.30	1.34
1	N	738	C	N1-C6	7.14	1.41	1.37
1	N	939	G	C5-C6	-7.14	1.35	1.42
1	N	1438	G	N1-C2	7.14	1.43	1.37
1	N	281	G	C8-N7	7.13	1.35	1.30
1	N	1316	G	C5-C4	7.13	1.43	1.38
1	N	541	G	N7-C5	-7.13	1.34	1.39
1	N	499	A	C6-N6	7.13	1.39	1.33
1	N	1283	U	C3'-O3'	7.13	1.52	1.42
1	N	1395	C	O3'-P	-7.13	1.52	1.61
1	N	852	G	C8-N7	7.12	1.35	1.30
1	N	205	A	N9-C8	7.12	1.43	1.37
1	N	752	G	C2-N3	7.12	1.38	1.32
1	N	1115	U	C5'-C4'	7.12	1.59	1.51
1	N	285	C	O3'-P	-7.12	1.52	1.61
1	N	805	C	N3-C4	7.12	1.39	1.33
1	N	453	G	C6-O6	-7.12	1.17	1.24
1	N	1154	G	C2-N2	7.12	1.41	1.34
1	N	1203	C	N1-C6	7.12	1.41	1.37
1	N	953	G	N3-C4	-7.12	1.30	1.35
1	N	1013	G	N3-C4	-7.12	1.30	1.35
1	N	1127	G	C2-N3	7.12	1.38	1.32
1	N	1194	U	C2'-C1'	7.12	1.61	1.53
1	N	980	C	O3'-P	-7.11	1.52	1.61
1	N	1104	G	C5-C4	7.11	1.43	1.38
1	N	565	U	C5'-C4'	7.11	1.59	1.51
1	N	665	A	C2-N3	-7.11	1.27	1.33
1	N	425	G	P-O5'	-7.11	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	831	A	N7-C5	-7.11	1.34	1.39
1	N	976	G	N1-C2	7.11	1.43	1.37
1	N	52	C	C4'-C3'	7.11	1.60	1.53
1	N	144	G	P-O5'	-7.11	1.52	1.59
1	N	1376	U	C2-N3	7.11	1.42	1.37
1	N	1424	U	C2'-C1'	7.11	1.61	1.53
1	N	300	A	C8-N7	-7.11	1.26	1.31
1	N	1085	U	C3'-C2'	7.11	1.60	1.52
1	N	56	U	C2'-C1'	7.11	1.61	1.53
1	N	86	G	C6-N1	-7.11	1.34	1.39
1	N	347	G	C5-C4	7.11	1.43	1.38
1	N	1018	G	C2-N3	7.11	1.38	1.32
1	N	851	G	N3-C4	7.10	1.40	1.35
1	N	177	G	N9-C4	7.10	1.43	1.38
1	N	276	G	N1-C2	7.10	1.43	1.37
1	N	1064	G	C5-C4	7.10	1.43	1.38
1	N	137	U	N1-C6	7.10	1.44	1.38
1	N	852	G	C2-N3	7.10	1.38	1.32
1	N	1193	G	C2-N3	7.10	1.38	1.32
1	N	718	A	C6-N6	7.10	1.39	1.33
1	N	944	G	C5'-C4'	7.10	1.59	1.51
1	N	403	C	C5'-C4'	7.10	1.59	1.51
1	N	454	G	C2-N3	7.09	1.38	1.32
1	N	1105	A	C5'-C4'	7.09	1.59	1.51
1	N	134	G	C6-N1	7.09	1.44	1.39
1	N	882	C	N3-C4	7.09	1.39	1.33
1	N	777	A	C5'-C4'	7.09	1.59	1.51
1	N	983	A	N7-C5	-7.09	1.34	1.39
1	N	144	G	N3-C4	-7.09	1.30	1.35
1	N	396	C	N3-C4	7.09	1.39	1.33
1	N	744	C	C2'-C1'	-7.09	1.45	1.53
1	N	693	G	C5-C6	-7.09	1.35	1.42
1	N	510	A	C5'-C4'	7.09	1.59	1.51
1	N	710	G	C5'-C4'	7.09	1.59	1.51
1	N	1441	A	C6-N1	-7.09	1.30	1.35
1	N	1068	G	C5-C4	7.08	1.43	1.38
1	N	119	A	C5-C4	-7.08	1.33	1.38
1	N	11	G	C6-N1	-7.08	1.34	1.39
1	N	55	A	C8-N7	-7.08	1.26	1.31
1	N	953	G	C2-N3	7.08	1.38	1.32
1	N	520	A	N9-C4	-7.08	1.33	1.37
1	N	1325	C	C2'-C1'	-7.08	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	706	A	N9-C4	-7.08	1.33	1.37
1	N	822	U	N3-C4	7.08	1.44	1.38
1	N	975	A	C5-C6	-7.08	1.34	1.41
1	N	538	G	C6-N1	7.08	1.44	1.39
1	N	604	G	C5'-C4'	7.08	1.59	1.51
1	N	924	C	C4-N4	7.07	1.40	1.33
1	N	1002	G	N1-C2	7.07	1.43	1.37
1	N	138	G	C6-N1	7.07	1.44	1.39
1	N	68	G	C2-N2	7.07	1.41	1.34
1	N	129	A	P-O5'	-7.07	1.52	1.59
1	N	428	G	C5-C4	7.07	1.43	1.38
1	N	725	G	C2-N3	7.07	1.38	1.32
1	N	1258	G	C2-N3	7.07	1.38	1.32
1	N	1506	U	C4-C5	7.07	1.50	1.43
1	N	1228	C	C2-N3	7.07	1.41	1.35
1	N	1308	U	C4-C5	-7.07	1.37	1.43
1	N	1455	G	N3-C4	-7.07	1.30	1.35
1	N	595	A	N3-C4	7.07	1.39	1.34
1	N	112	G	C5-C6	-7.06	1.35	1.42
1	N	255	G	C6-N1	7.06	1.44	1.39
1	N	378	G	N1-C2	7.06	1.43	1.37
1	N	272	C	P-O5'	-7.06	1.52	1.59
1	N	438	U	P-O5'	-7.06	1.52	1.59
1	N	703	G	C2'-C1'	-7.06	1.45	1.53
1	N	1146	A	C6-N6	7.05	1.39	1.33
1	N	182	A	N9-C4	-7.05	1.33	1.37
1	N	126	G	C5-C4	7.05	1.43	1.38
1	N	48	C	C2'-C1'	-7.05	1.45	1.53
1	N	417	G	C4'-C3'	-7.05	1.45	1.53
1	N	146	G	C6-N1	7.05	1.44	1.39
1	N	688	G	C8-N7	7.05	1.35	1.30
1	N	718	A	C5'-C4'	7.05	1.59	1.51
1	N	1063	C	N3-C4	7.05	1.38	1.33
1	N	1090	U	C5'-C4'	7.04	1.59	1.51
1	N	790	A	C6-N6	7.04	1.39	1.33
1	N	40	C	C5'-C4'	7.04	1.59	1.51
1	N	101	A	C5'-C4'	7.04	1.59	1.51
1	N	105	G	C5-C4	7.04	1.43	1.38
1	N	159	G	C5-C6	-7.03	1.35	1.42
1	N	498	A	C5'-C4'	7.03	1.59	1.51
1	N	74	A	C2-N3	7.03	1.39	1.33
1	N	1490	U	C2-N3	7.03	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	805	C	C5'-C4'	7.03	1.59	1.51
1	N	1298	U	O3'-P	-7.03	1.52	1.61
1	N	265	G	C5-C4	-7.03	1.33	1.38
1	N	552	U	C3'-O3'	7.02	1.51	1.42
1	N	1072	G	C2'-C1'	-7.02	1.45	1.53
1	N	988	G	C2-N3	7.01	1.38	1.32
1	N	1452	C	N1-C6	7.01	1.41	1.37
1	N	540	G	C6-N1	7.01	1.44	1.39
1	N	765	G	N9-C4	-7.01	1.32	1.38
1	N	254	G	C2'-C1'	-7.01	1.45	1.53
1	N	362	G	N3-C4	-7.01	1.30	1.35
1	N	676	A	P-O5'	-7.01	1.52	1.59
1	N	1531	A	C1'-N9	7.01	1.59	1.48
1	N	507	C	C2-N3	7.01	1.41	1.35
1	N	729	A	O4'-C1'	-7.01	1.32	1.41
1	N	203	G	C5-C4	-7.00	1.33	1.38
1	N	1481	U	N1-C6	7.00	1.44	1.38
1	N	121	U	N1-C2	7.00	1.44	1.38
1	N	598	U	P-O5'	-7.00	1.52	1.59
1	N	602	A	C6-N6	7.00	1.39	1.33
1	N	868	C	C2'-C1'	-7.00	1.45	1.53
1	N	778	G	C2-N2	7.00	1.41	1.34
1	N	912	C	O3'-P	-7.00	1.52	1.61
1	N	438	U	N3-C4	-6.99	1.32	1.38
1	N	1416	G	N9-C4	-6.99	1.32	1.38
1	N	1184	G	N1-C2	6.99	1.43	1.37
1	N	1477	U	C4'-C3'	-6.99	1.45	1.53
1	N	860	A	C8-N7	-6.99	1.26	1.31
1	N	978	A	C4'-O4'	-6.98	1.36	1.45
1	N	27	G	C5-C4	-6.98	1.33	1.38
1	N	1214	C	C3'-C2'	6.98	1.60	1.52
1	N	1072	G	N7-C5	-6.98	1.35	1.39
1	N	444	G	C2-N3	6.98	1.38	1.32
1	N	49	U	O3'-P	-6.98	1.52	1.61
1	N	709	U	C5'-C4'	6.98	1.59	1.51
1	N	1062	U	C2-N3	6.98	1.42	1.37
1	N	1403	C	C3'-C2'	-6.98	1.45	1.52
1	N	286	C	C5'-C4'	6.97	1.59	1.51
1	N	335	C	C4'-C3'	-6.97	1.45	1.53
1	N	761	G	C2-N2	6.97	1.41	1.34
1	N	1196	A	N7-C5	-6.97	1.35	1.39
1	N	1225	A	C5-C4	6.97	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1372	U	C4-C5	-6.97	1.37	1.43
1	N	30	U	N3-C4	6.97	1.44	1.38
1	N	279	A	N9-C4	-6.97	1.33	1.37
1	N	905	U	P-O5'	-6.97	1.52	1.59
1	N	963	G	C2'-C1'	-6.97	1.45	1.53
1	N	99	C	N3-C4	6.97	1.38	1.33
1	N	807	A	N9-C8	-6.97	1.32	1.37
1	N	1397	C	C3'-C2'	-6.97	1.45	1.52
1	N	473	U	N1-C6	6.97	1.44	1.38
1	N	987	G	N3-C4	-6.96	1.30	1.35
1	N	109	A	C5-C6	6.96	1.47	1.41
1	N	1156	G	N9-C4	-6.96	1.32	1.38
1	N	1375	A	C8-N7	-6.96	1.26	1.31
1	N	1525	G	N9-C4	-6.96	1.32	1.38
1	N	51	A	C2'-C1'	-6.96	1.45	1.53
1	N	542	G	N7-C5	6.96	1.43	1.39
1	N	779	C	C4-N4	6.96	1.40	1.33
1	N	490	C	N1-C2	6.95	1.47	1.40
1	N	1429	A	C5'-C4'	6.95	1.59	1.51
1	N	1482	G	C6-N1	6.95	1.44	1.39
1	N	716	A	C6-N1	6.95	1.40	1.35
1	N	1123	U	P-O5'	-6.95	1.52	1.59
1	N	1285	A	O3'-P	-6.95	1.52	1.61
1	N	1454	G	C5'-C4'	6.95	1.59	1.51
1	N	524	G	N7-C5	-6.95	1.35	1.39
1	N	710	G	N9-C4	-6.95	1.32	1.38
1	N	771	G	C2-N3	6.95	1.38	1.32
1	N	1187	G	C2-N3	6.95	1.38	1.32
1	N	353	A	C5-C4	-6.95	1.33	1.38
1	N	1435	G	C2'-C1'	-6.95	1.45	1.53
1	N	1334	G	C5'-C4'	6.95	1.59	1.51
1	N	32	A	P-O5'	-6.94	1.52	1.59
1	N	613	C	N3-C4	6.94	1.38	1.33
1	N	823	C	P-O5'	-6.94	1.52	1.59
1	N	858	G	P-O5'	-6.94	1.52	1.59
1	N	1166	G	N1-C2	-6.94	1.32	1.37
1	N	1465	A	C6-N1	6.94	1.40	1.35
1	N	1417	G	N9-C8	6.94	1.42	1.37
1	N	11	G	C5-C6	6.94	1.49	1.42
1	N	563	A	O3'-P	-6.93	1.52	1.61
1	N	1107	C	N3-C4	6.93	1.38	1.33
1	N	196	A	C6-N6	6.93	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	464	U	C4-C5	6.93	1.49	1.43
1	N	318	G	C2-N3	6.93	1.38	1.32
1	N	243	A	P-O5'	-6.93	1.52	1.59
1	N	1492	A	N3-C4	6.93	1.39	1.34
1	N	289	G	N3-C4	-6.93	1.30	1.35
1	N	979	C	N3-C4	6.93	1.38	1.33
1	N	1409	C	C2'-C1'	-6.93	1.45	1.53
1	N	419	C	N1-C6	6.92	1.41	1.37
1	N	497	G	C5'-C4'	6.92	1.59	1.51
1	N	253	A	O3'-P	-6.92	1.52	1.61
1	N	910	C	N3-C4	6.92	1.38	1.33
1	N	186	C	N1-C6	6.92	1.41	1.37
1	N	267	C	C5'-C4'	6.92	1.59	1.51
1	N	1014	A	N9-C4	6.92	1.42	1.37
1	N	143	A	C5-C4	6.92	1.43	1.38
1	N	786	G	N1-C2	6.92	1.43	1.37
1	N	1018	G	C8-N7	-6.92	1.26	1.30
1	N	1188	A	C4'-O4'	-6.92	1.36	1.45
1	N	1227	A	C5'-C4'	6.91	1.59	1.51
1	N	525	C	C4-C5	6.91	1.48	1.43
1	N	68	G	C4'-C3'	-6.91	1.45	1.53
1	N	516	U	C5'-C4'	6.91	1.59	1.51
1	N	1495	U	C2-N3	6.91	1.42	1.37
1	N	847	G	C2-N2	-6.91	1.27	1.34
1	N	1178	G	C5'-C4'	6.91	1.59	1.51
1	N	1518	A	N7-C5	-6.91	1.35	1.39
1	N	391	G	N9-C8	6.91	1.42	1.37
1	N	794	A	N3-C4	-6.90	1.30	1.34
1	N	919	A	C2'-C1'	-6.90	1.45	1.53
1	N	1085	U	C1'-N1	6.90	1.59	1.48
1	N	297	G	C8-N7	-6.90	1.26	1.30
1	N	308	C	C4-C5	6.90	1.48	1.43
1	N	652	U	C4-C5	6.90	1.49	1.43
1	N	833	G	C8-N7	6.90	1.35	1.30
1	N	792	A	C6-N1	6.89	1.40	1.35
1	N	1190	G	C2-N2	6.89	1.41	1.34
1	N	1487	G	C8-N7	6.89	1.35	1.30
1	N	202	G	N9-C4	-6.89	1.32	1.38
1	N	81	A	N7-C5	-6.89	1.35	1.39
1	N	1526	G	N9-C4	-6.89	1.32	1.38
1	N	380	G	O3'-P	-6.89	1.52	1.61
1	N	1272	G	C2-N2	6.89	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	498	A	C8-N7	-6.89	1.26	1.31
1	N	1373	G	C6-N1	6.89	1.44	1.39
1	N	116	A	N9-C4	6.88	1.42	1.37
1	N	260	G	C2-N3	6.88	1.38	1.32
1	N	494	G	P-O5'	-6.88	1.52	1.59
1	N	111	G	C6-N1	6.88	1.44	1.39
1	N	763	G	C6-N1	6.88	1.44	1.39
1	N	1472	U	C4-C5	6.88	1.49	1.43
1	N	339	C	C4-N4	6.88	1.40	1.33
1	N	574	A	N3-C4	-6.88	1.30	1.34
1	N	74	A	C6-N1	6.88	1.40	1.35
1	N	1120	C	C3'-O3'	6.88	1.51	1.42
1	N	856	C	C2'-C1'	-6.88	1.45	1.53
1	N	951	G	C3'-C2'	-6.88	1.45	1.52
1	N	1420	U	C4'-C3'	6.88	1.60	1.53
1	N	195	A	O3'-P	-6.87	1.52	1.61
1	N	631	C	P-O5'	6.87	1.66	1.59
1	N	1079	G	C4'-C3'	6.87	1.60	1.53
1	N	1154	G	C2-N3	6.87	1.38	1.32
1	N	1320	C	C4-C5	6.87	1.48	1.43
1	N	114	U	C2'-C1'	-6.87	1.45	1.53
1	N	702	A	N9-C4	6.87	1.42	1.37
1	N	1129	C	C5'-C4'	6.87	1.59	1.51
1	N	1302	C	C2'-C1'	-6.87	1.45	1.53
1	N	1483	A	N9-C8	6.87	1.43	1.37
1	N	1266	G	N9-C4	-6.87	1.32	1.38
1	N	1357	A	C6-N6	6.87	1.39	1.33
1	N	264	C	O3'-P	-6.87	1.52	1.61
1	N	380	G	N9-C4	-6.87	1.32	1.38
1	N	1238	A	C6-N6	6.86	1.39	1.33
1	N	51	A	C6-N1	6.86	1.40	1.35
1	N	651	C	C4-N4	6.86	1.40	1.33
1	N	1456	A	C5'-C4'	6.86	1.59	1.51
1	N	567	G	O4'-C1'	6.86	1.50	1.41
1	N	778	G	C8-N7	-6.86	1.26	1.30
1	N	1005	A	P-O5'	-6.86	1.52	1.59
1	N	1183	U	C2'-C1'	-6.86	1.45	1.53
1	N	1477	U	C5'-C4'	6.86	1.59	1.51
1	N	499	A	N9-C4	-6.86	1.33	1.37
1	N	52	C	N3-C4	6.85	1.38	1.33
1	N	999	C	C4-N4	6.85	1.40	1.33
1	N	109	A	C8-N7	-6.85	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	253	A	N7-C5	-6.85	1.35	1.39
1	N	749	A	C8-N7	-6.85	1.26	1.31
1	N	1489	G	N7-C5	6.85	1.43	1.39
1	N	121	U	C4'-C3'	6.85	1.60	1.53
1	N	322	C	C1'-N1	6.85	1.59	1.48
1	N	26	A	C5-C6	-6.84	1.34	1.41
1	N	327	A	C8-N7	-6.84	1.26	1.31
1	N	433	G	N1-C2	6.84	1.43	1.37
1	N	509	A	C3'-C2'	6.84	1.60	1.52
1	N	579	A	N7-C5	-6.84	1.35	1.39
1	N	1034	G	N9-C8	-6.84	1.33	1.37
1	N	1084	G	O3'-P	-6.84	1.52	1.61
1	N	1292	G	C3'-O3'	6.84	1.51	1.42
1	N	1094	G	C2-N3	6.84	1.38	1.32
1	N	823	C	C4'-C3'	6.84	1.60	1.53
1	N	1433	A	C5'-C4'	6.84	1.59	1.51
1	N	951	G	N7-C5	-6.84	1.35	1.39
1	N	419	C	C2-N3	6.84	1.41	1.35
1	N	59	A	P-O5'	-6.83	1.52	1.59
1	N	550	G	N1-C2	6.83	1.43	1.37
1	N	64	G	C2-N3	-6.83	1.27	1.32
1	N	1460	C	C4-N4	6.83	1.40	1.33
1	N	447	G	C4'-C3'	6.83	1.60	1.53
1	N	603	U	N1-C2	6.83	1.44	1.38
1	N	71	A	C8-N7	-6.82	1.26	1.31
1	N	1122	U	P-O5'	-6.82	1.52	1.59
1	N	1239	A	C4'-C3'	6.82	1.60	1.53
1	N	341	C	C4-C5	6.82	1.48	1.43
1	N	805	C	C4-C5	6.82	1.48	1.43
1	N	336	A	N9-C8	6.82	1.43	1.37
1	N	677	U	P-O5'	-6.82	1.52	1.59
1	N	1087	G	C1'-N9	6.82	1.58	1.48
1	N	1155	A	N1-C2	-6.82	1.28	1.34
1	N	1515	G	N9-C4	6.82	1.43	1.38
1	N	570	G	N9-C4	6.81	1.43	1.38
1	N	147	G	N9-C8	6.81	1.42	1.37
1	N	870	U	C3'-C2'	6.81	1.60	1.52
1	N	216	U	C2-N3	6.81	1.42	1.37
1	N	190	A	C8-N7	-6.81	1.26	1.31
1	N	289	G	N7-C5	-6.81	1.35	1.39
1	N	254	G	P-O5'	-6.80	1.52	1.59
1	N	722	G	C5-C4	-6.80	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	807	A	O3'-P	6.80	1.69	1.61
1	N	212	G	C4'-C3'	-6.80	1.45	1.53
1	N	450	G	N9-C4	-6.80	1.32	1.38
1	N	868	C	C4'-C3'	6.80	1.60	1.53
1	N	1479	C	N1-C6	6.80	1.41	1.37
1	N	514	C	O4'-C1'	6.80	1.50	1.41
1	N	755	G	N1-C2	6.80	1.43	1.37
1	N	69	G	C5-C4	6.80	1.43	1.38
1	N	227	G	C5'-C4'	6.79	1.59	1.51
1	N	337	G	C2-N2	6.79	1.41	1.34
1	N	475	C	C2'-C1'	6.79	1.60	1.53
1	N	683	G	C2-N2	6.79	1.41	1.34
1	N	896	C	P-O5'	-6.79	1.52	1.59
1	N	975	A	C2-N3	6.79	1.39	1.33
1	N	1143	G	N9-C8	6.79	1.42	1.37
1	N	550	G	C3'-C2'	-6.79	1.45	1.52
1	N	1083	U	N1-C2	6.79	1.44	1.38
1	N	1412	C	C2'-C1'	-6.79	1.45	1.53
1	N	796	C	C4'-C3'	6.79	1.60	1.53
1	N	41	G	C6-N1	-6.79	1.34	1.39
1	N	347	G	N7-C5	-6.79	1.35	1.39
1	N	1109	C	C2-N3	6.79	1.41	1.35
1	N	1294	G	P-O5'	-6.79	1.52	1.59
1	N	1344	C	C2'-C1'	-6.79	1.45	1.53
1	N	1001	C	C4-C5	-6.78	1.37	1.43
1	N	1180	A	C4'-C3'	6.78	1.60	1.53
1	N	1274	A	N1-C2	6.78	1.40	1.34
1	N	587	G	C2-N3	6.78	1.38	1.32
1	N	661	G	C3'-C2'	6.78	1.60	1.52
1	N	355	C	C5'-C4'	6.78	1.59	1.51
1	N	1094	G	C3'-O3'	6.78	1.51	1.42
1	N	90	C	N3-C4	6.78	1.38	1.33
1	N	320	A	N9-C8	6.78	1.43	1.37
1	N	643	C	C3'-O3'	6.78	1.51	1.42
1	N	672	U	N3-C4	6.78	1.44	1.38
1	N	882	C	N1-C6	6.78	1.41	1.37
1	N	360	G	O3'-P	-6.78	1.53	1.61
1	N	1331	G	P-O5'	-6.78	1.52	1.59
1	N	447	G	N3-C4	-6.77	1.30	1.35
1	N	1353	G	C2'-C1'	-6.77	1.45	1.53
1	N	973	G	N9-C4	-6.77	1.32	1.38
1	N	1108	G	C8-N7	6.77	1.35	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	814	A	N9-C8	6.77	1.43	1.37
1	N	826	C	C4-N4	6.77	1.40	1.33
1	N	885	G	C8-N7	-6.77	1.26	1.30
1	N	1187	G	C8-N7	-6.77	1.26	1.30
1	N	942	G	C5-C4	6.77	1.43	1.38
1	N	1286	U	C5'-C4'	6.77	1.59	1.51
1	N	1310	G	C3'-C2'	6.77	1.60	1.52
1	N	746	A	P-O5'	-6.76	1.52	1.59
1	N	797	C	C4'-C3'	6.76	1.60	1.53
1	N	1518	A	C8-N7	-6.76	1.26	1.31
1	N	376	G	C8-N7	-6.76	1.26	1.30
1	N	402	G	C4'-O4'	-6.76	1.36	1.45
1	N	559	A	C5-C6	6.76	1.47	1.41
1	N	1042	A	C8-N7	-6.76	1.26	1.31
1	N	1177	G	N9-C8	-6.76	1.33	1.37
1	N	1222	G	N7-C5	-6.76	1.35	1.39
1	N	512	U	N3-C4	6.76	1.44	1.38
1	N	645	G	N7-C5	-6.76	1.35	1.39
1	N	1209	C	C3'-O3'	6.76	1.51	1.42
1	N	405	U	C4-C5	6.75	1.49	1.43
1	N	314	C	C1'-N1	6.75	1.58	1.48
1	N	437	U	N1-C2	6.75	1.44	1.38
1	N	1447	A	P-O5'	-6.75	1.52	1.59
1	N	727	G	C5-C4	6.75	1.43	1.38
1	N	544	G	P-O5'	-6.75	1.53	1.59
1	N	808	C	C3'-C2'	6.74	1.60	1.52
1	N	1138	G	N1-C2	6.74	1.43	1.37
1	N	872	A	C6-N1	6.74	1.40	1.35
1	N	223	A	N9-C4	-6.74	1.33	1.37
1	N	92	U	C5'-C4'	6.74	1.59	1.51
1	N	378	G	C2'-C1'	-6.74	1.46	1.53
1	N	986	U	P-O5'	-6.74	1.53	1.59
1	N	996	A	P-O5'	-6.74	1.53	1.59
1	N	1074	G	O3'-P	-6.74	1.53	1.61
1	N	1534	A	N9-C8	6.74	1.43	1.37
1	N	415	A	C5-C4	6.73	1.43	1.38
1	N	1030	U	C2-N3	6.73	1.42	1.37
1	N	1490	U	C4-O4	-6.73	1.18	1.23
1	N	83	C	C4-N4	6.73	1.40	1.33
1	N	199	A	N7-C5	-6.73	1.35	1.39
1	N	389	A	O4'-C1'	6.73	1.50	1.41
1	N	560	A	C6-N1	6.73	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	916	U	C2-O2	6.73	1.28	1.22
1	N	985	C	N3-C4	6.72	1.38	1.33
1	N	447	G	N9-C4	-6.72	1.32	1.38
1	N	620	C	C1'-N1	6.72	1.58	1.48
1	N	1137	C	C4-N4	6.72	1.40	1.33
1	N	1173	U	N1-C6	-6.72	1.31	1.38
1	N	1231	G	N7-C5	-6.72	1.35	1.39
1	N	191	G	C6-N1	6.72	1.44	1.39
1	N	443	C	C4-C5	-6.72	1.37	1.43
1	N	804	U	C4-C5	6.72	1.49	1.43
1	N	266	G	N7-C5	-6.71	1.35	1.39
1	N	1462	C	C2'-O2'	-6.71	1.32	1.41
1	N	7	A	C5-C6	6.71	1.47	1.41
1	N	1399	C	C4-N4	6.71	1.40	1.33
1	N	572	A	C8-N7	-6.71	1.26	1.31
1	N	116	A	C6-N1	6.71	1.40	1.35
1	N	276	G	N7-C5	6.71	1.43	1.39
1	N	1283	U	N1-C2	-6.71	1.32	1.38
1	N	25	C	N3-C4	6.70	1.38	1.33
1	N	1328	C	N3-C4	6.70	1.38	1.33
1	N	1041	G	C2-N3	6.70	1.38	1.32
1	N	102	G	O3'-P	-6.70	1.53	1.61
1	N	251	G	N3-C4	-6.70	1.30	1.35
1	N	133	U	C4-C5	-6.70	1.37	1.43
1	N	440	C	C1'-N1	6.70	1.58	1.48
1	N	327	A	O3'-P	-6.69	1.53	1.61
1	N	1107	C	C4-N4	6.69	1.40	1.33
1	N	1435	G	C2-N3	6.69	1.38	1.32
1	N	423	G	C5-C4	6.69	1.43	1.38
1	N	612	C	C4-C5	6.69	1.48	1.43
1	N	1064	G	C2-N3	6.69	1.38	1.32
1	N	1387	G	N9-C8	6.69	1.42	1.37
1	N	1201	A	C6-N6	6.69	1.39	1.33
1	N	829	G	C5-C4	6.68	1.43	1.38
1	N	110	C	C2-N3	6.68	1.41	1.35
1	N	910	C	C5'-C4'	6.68	1.59	1.51
1	N	1184	G	N9-C4	-6.68	1.32	1.38
1	N	947	G	P-O5'	-6.68	1.53	1.59
1	N	1071	C	C1'-N1	6.68	1.58	1.48
1	N	1335	U	C2-O2	6.68	1.28	1.22
1	N	270	A	C4'-O4'	6.68	1.54	1.45
1	N	423	G	C3'-C2'	6.67	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	479	U	N3-C4	6.67	1.44	1.38
1	N	740	U	C5'-C4'	6.67	1.59	1.51
1	N	1021	A	C5-C4	6.67	1.43	1.38
1	N	1072	G	P-O5'	-6.67	1.53	1.59
1	N	1150	A	C5-C4	-6.67	1.34	1.38
1	N	1282	C	N3-C4	6.67	1.38	1.33
1	N	344	A	C5'-C4'	6.67	1.59	1.51
1	N	1300	G	C6-N1	6.67	1.44	1.39
1	N	552	U	C2-N3	6.67	1.42	1.37
1	N	725	G	C5-C6	-6.67	1.35	1.42
1	N	616	G	C2'-C1'	-6.67	1.46	1.53
1	N	261	U	C2-O2	6.67	1.28	1.22
1	N	265	G	N9-C8	6.67	1.42	1.37
1	N	537	G	N9-C8	6.67	1.42	1.37
1	N	1177	G	C8-N7	-6.67	1.26	1.30
1	N	1301	U	C4-C5	6.67	1.49	1.43
1	N	1091	U	P-O5'	-6.67	1.53	1.59
1	N	650	G	C2-N2	6.66	1.41	1.34
1	N	1266	G	C5-C6	-6.66	1.35	1.42
1	N	1511	G	P-O5'	-6.66	1.53	1.59
1	N	867	G	C5-C4	6.66	1.43	1.38
1	N	954	G	N9-C4	-6.66	1.32	1.38
1	N	742	G	N7-C5	-6.66	1.35	1.39
1	N	1521	C	C5-C6	-6.66	1.29	1.34
1	N	390	U	C5-C6	6.66	1.40	1.34
1	N	1316	G	N9-C4	-6.66	1.32	1.38
1	N	591	U	N3-C4	6.66	1.44	1.38
1	N	957	U	C5-C6	6.66	1.40	1.34
1	N	641	U	C5'-C4'	6.65	1.59	1.51
1	N	925	G	N1-C2	6.65	1.43	1.37
1	N	801	U	N3-C4	6.65	1.44	1.38
1	N	954	G	N7-C5	6.65	1.43	1.39
1	N	1259	C	N3-C4	6.65	1.38	1.33
1	N	15	G	N3-C4	-6.65	1.30	1.35
1	N	303	A	N1-C2	6.65	1.40	1.34
1	N	50	A	N9-C4	6.65	1.41	1.37
1	N	78	A	C5-C4	-6.65	1.34	1.38
1	N	883	C	N1-C6	6.65	1.41	1.37
1	N	916	U	C4-O4	-6.65	1.18	1.23
1	N	1040	U	C5'-C4'	6.65	1.59	1.51
1	N	1150	A	N3-C4	6.65	1.38	1.34
1	N	1157	A	N9-C4	-6.65	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1354	U	P-O5'	-6.65	1.53	1.59
1	N	576	C	N3-C4	6.64	1.38	1.33
1	N	1277	C	C4-N4	6.64	1.40	1.33
1	N	1396	A	N1-C2	6.64	1.40	1.34
1	N	1468	A	C6-N1	6.64	1.40	1.35
1	N	180	U	C2-O2	6.64	1.28	1.22
1	N	1162	C	C2-N3	6.64	1.41	1.35
1	N	1448	C	C4-C5	-6.64	1.37	1.43
1	N	1521	C	C5'-C4'	6.64	1.59	1.51
1	N	1392	G	C4'-C3'	6.64	1.60	1.53
1	N	1274	A	C8-N7	-6.64	1.26	1.31
1	N	1467	C	P-O5'	-6.64	1.53	1.59
1	N	580	C	C4-N4	6.64	1.40	1.33
1	N	71	A	N1-C2	6.63	1.40	1.34
1	N	241	G	C3'-O3'	6.63	1.51	1.42
1	N	1044	A	C4'-C3'	6.63	1.60	1.53
1	N	102	G	C2-N2	-6.63	1.27	1.34
1	N	445	G	C5-C4	-6.63	1.33	1.38
1	N	794	A	C3'-O3'	6.63	1.51	1.42
1	N	1156	G	C8-N7	6.63	1.34	1.30
1	N	1497	G	N9-C8	-6.63	1.33	1.37
1	N	133	U	C2'-C1'	-6.63	1.46	1.53
1	N	449	G	C5'-C4'	6.63	1.59	1.51
1	N	929	G	C8-N7	6.63	1.34	1.30
1	N	953	G	C4'-C3'	6.63	1.60	1.53
1	N	336	A	C5'-C4'	6.62	1.59	1.51
1	N	125	U	C2'-C1'	-6.62	1.46	1.53
1	N	316	C	C5-C6	-6.62	1.29	1.34
1	N	1146	A	N9-C8	6.62	1.43	1.37
1	N	850	U	C5'-C4'	6.62	1.59	1.51
1	N	917	G	N7-C5	-6.62	1.35	1.39
1	N	932	C	C2-N3	6.62	1.41	1.35
1	N	1071	C	C4-C5	6.62	1.48	1.43
1	N	1377	A	N9-C4	-6.62	1.33	1.37
1	N	1086	U	C4'-C3'	6.62	1.60	1.53
1	N	54	C	C1'-N1	6.62	1.58	1.48
1	N	683	G	C6-N1	6.62	1.44	1.39
1	N	1312	G	C4'-C3'	6.62	1.60	1.53
1	N	1401	G	C5-C4	6.62	1.43	1.38
1	N	1461	G	P-O5'	-6.62	1.53	1.59
1	N	337	G	C6-N1	6.62	1.44	1.39
1	N	906	A	P-O5'	-6.62	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1346	A	C6-N1	6.62	1.40	1.35
1	N	812	G	C5-C6	6.61	1.49	1.42
1	N	192	A	N9-C4	6.61	1.41	1.37
1	N	41	G	C2-N3	6.61	1.38	1.32
1	N	151	A	C3'-O3'	6.61	1.51	1.42
1	N	197	A	C2'-C1'	-6.61	1.46	1.53
1	N	455	G	C2-N2	6.61	1.41	1.34
1	N	390	U	C4'-C3'	6.61	1.60	1.53
1	N	308	C	P-O5'	-6.61	1.53	1.59
1	N	491	G	C5-C6	-6.61	1.35	1.42
1	N	1129	C	C5-C6	6.61	1.39	1.34
1	N	173	U	C4-O4	-6.61	1.18	1.23
1	N	963	G	N7-C5	6.60	1.43	1.39
1	N	1221	G	C2'-C1'	-6.60	1.46	1.53
1	N	169	C	C4-N4	6.60	1.39	1.33
1	N	208	U	O3'-P	-6.60	1.53	1.61
1	N	241	G	C2-N3	6.60	1.38	1.32
1	N	884	U	C1'-N1	6.60	1.58	1.48
1	N	1111	A	C6-N6	6.60	1.39	1.33
1	N	601	G	C5-C6	-6.60	1.35	1.42
1	N	1152	A	C4'-C3'	6.60	1.60	1.53
1	N	1191	A	P-O5'	-6.60	1.53	1.59
1	N	66	A	N9-C4	6.59	1.41	1.37
1	N	497	G	N1-C2	6.59	1.43	1.37
1	N	723	U	N1-C2	6.59	1.44	1.38
1	N	1256	A	C4'-C3'	6.59	1.60	1.53
1	N	978	A	N9-C4	6.59	1.41	1.37
1	N	214	C	C5'-C4'	6.59	1.59	1.51
1	N	1038	C	C4'-O4'	-6.59	1.36	1.45
1	N	1361	G	C2'-C1'	-6.59	1.46	1.53
1	N	598	U	N1-C2	6.59	1.44	1.38
1	N	714	G	O4'-C1'	-6.59	1.33	1.41
1	N	1117	A	N9-C4	-6.59	1.33	1.37
1	N	1334	G	C2'-C1'	-6.59	1.46	1.53
1	N	330	C	C4-N4	6.58	1.39	1.33
1	N	743	A	N7-C5	-6.58	1.35	1.39
1	N	870	U	P-O5'	-6.58	1.53	1.59
1	N	1032	G	C4'-C3'	6.58	1.60	1.53
1	N	905	U	C4-C5	6.58	1.49	1.43
1	N	1198	G	P-O5'	6.58	1.66	1.59
1	N	244	U	N1-C2	6.58	1.44	1.38
1	N	341	C	N3-C4	6.58	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	433	G	C6-O6	-6.58	1.18	1.24
1	N	1318	A	C5-C4	6.58	1.43	1.38
1	N	212	G	C6-N1	6.58	1.44	1.39
1	N	1037	C	C5-C6	6.58	1.39	1.34
1	N	24	U	C5-C6	6.58	1.40	1.34
1	N	285	C	N3-C4	6.58	1.38	1.33
1	N	366	A	C6-N6	6.58	1.39	1.33
1	N	954	G	C8-N7	-6.57	1.27	1.30
1	N	1279	G	N3-C4	-6.57	1.30	1.35
1	N	242	G	C5'-C4'	6.57	1.59	1.51
1	N	657	U	P-O5'	-6.57	1.53	1.59
1	N	1165	U	C2-N3	6.57	1.42	1.37
1	N	710	G	N3-C4	-6.57	1.30	1.35
1	N	794	A	C4'-C3'	-6.57	1.46	1.53
1	N	206	C	P-O5'	-6.56	1.53	1.59
1	N	399	G	C5'-C4'	6.56	1.59	1.51
1	N	734	G	O3'-P	-6.56	1.53	1.61
1	N	1063	C	C5-C6	6.56	1.39	1.34
1	N	1178	G	C2'-C1'	-6.56	1.46	1.53
1	N	1218	C	C4-N4	6.56	1.39	1.33
1	N	291	U	C3'-O3'	6.56	1.51	1.42
1	N	362	G	C5-C4	6.56	1.43	1.38
1	N	604	G	C6-N1	6.56	1.44	1.39
1	N	1287	A	C2'-C1'	-6.56	1.46	1.53
1	N	295	C	C4-N4	6.56	1.39	1.33
1	N	280	C	C5'-C4'	6.55	1.59	1.51
1	N	350	G	P-O5'	-6.55	1.53	1.59
1	N	1099	G	C2'-O2'	-6.55	1.33	1.41
1	N	561	U	C5'-C4'	6.55	1.59	1.51
1	N	1051	C	C4-N4	6.55	1.39	1.33
1	N	1292	G	C5-C6	-6.55	1.35	1.42
1	N	440	C	N3-C4	6.55	1.38	1.33
1	N	372	C	C4'-O4'	-6.55	1.37	1.45
1	N	1110	A	C6-N1	6.55	1.40	1.35
1	N	1123	U	N3-C4	6.55	1.44	1.38
1	N	181	A	C8-N7	6.54	1.36	1.31
1	N	491	G	C8-N7	-6.54	1.27	1.30
1	N	1361	G	C3'-C2'	-6.54	1.45	1.52
1	N	1490	U	O4'-C1'	6.54	1.50	1.41
1	N	926	G	N9-C4	6.54	1.43	1.38
1	N	7	A	P-O5'	6.54	1.66	1.59
1	N	34	C	C1'-N1	6.53	1.58	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	108	G	C2-N3	6.53	1.38	1.32
1	N	159	G	N3-C4	6.53	1.40	1.35
1	N	636	U	C5-C6	-6.53	1.28	1.34
1	N	228	A	C6-N1	6.53	1.40	1.35
1	N	897	C	N1-C6	-6.53	1.33	1.37
1	N	1498	U	O4'-C1'	-6.53	1.33	1.41
1	N	199	A	N9-C8	-6.53	1.32	1.37
1	N	117	G	O3'-P	-6.53	1.53	1.61
1	N	962	C	N3-C4	6.53	1.38	1.33
1	N	1064	G	C5'-C4'	6.53	1.59	1.51
1	N	1261	A	C4'-O4'	-6.53	1.37	1.45
1	N	1453	G	N7-C5	-6.53	1.35	1.39
1	N	1474	U	P-O5'	6.53	1.66	1.59
1	N	565	U	N3-C4	6.52	1.44	1.38
1	N	1317	C	C4-N4	6.52	1.39	1.33
1	N	87	C	C4'-C3'	6.52	1.60	1.53
1	N	262	A	N9-C4	-6.52	1.33	1.37
1	N	730	G	C6-N1	6.52	1.44	1.39
1	N	780	A	C6-N6	6.52	1.39	1.33
1	N	526	C	C2-N3	6.52	1.41	1.35
1	N	1012	A	C6-N6	6.52	1.39	1.33
1	N	78	A	P-O5'	-6.52	1.53	1.59
1	N	222	C	P-O5'	-6.52	1.53	1.59
1	N	114	U	C2-N3	6.52	1.42	1.37
1	N	1267	C	C4-N4	6.52	1.39	1.33
1	N	1393	U	C2-N3	6.52	1.42	1.37
1	N	1426	G	C2'-C1'	-6.52	1.46	1.53
1	N	108	G	N3-C4	6.51	1.40	1.35
1	N	393	A	N7-C5	-6.51	1.35	1.39
1	N	898	G	N3-C4	6.51	1.40	1.35
1	N	167	A	C2'-C1'	6.51	1.60	1.53
1	N	179	A	N3-C4	6.51	1.38	1.34
1	N	456	A	C5-C4	6.51	1.43	1.38
1	N	249	U	C2'-C1'	-6.51	1.46	1.53
1	N	482	A	C5-C6	-6.51	1.35	1.41
1	N	642	A	O4'-C1'	6.51	1.50	1.41
1	N	1242	G	N3-C4	6.51	1.40	1.35
1	N	170	U	N1-C6	-6.51	1.32	1.38
1	N	1140	C	C4-C5	6.51	1.48	1.43
1	N	337	G	N1-C2	6.51	1.43	1.37
1	N	1163	A	C5'-C4'	6.51	1.59	1.51
1	N	1206	G	C8-N7	-6.51	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1219	A	C6-N1	6.51	1.40	1.35
1	N	1457	G	C6-N1	6.51	1.44	1.39
1	N	308	C	C3'-C2'	6.51	1.60	1.52
1	N	1132	C	P-O5'	-6.51	1.53	1.59
1	N	21	G	N9-C8	6.50	1.42	1.37
1	N	267	C	N1-C6	-6.50	1.33	1.37
1	N	1100	C	C5'-C4'	6.50	1.59	1.51
1	N	1495	U	C4'-O4'	6.50	1.54	1.45
1	N	119	A	C3'-C2'	6.50	1.60	1.52
1	N	960	U	C2'-C1'	-6.50	1.46	1.53
1	N	108	G	C1'-N9	6.50	1.58	1.48
1	N	585	G	N9-C8	-6.50	1.33	1.37
1	N	1312	G	C1'-N9	6.50	1.58	1.48
1	N	155	A	C4'-C3'	6.49	1.60	1.53
1	N	1020	G	C6-N1	6.49	1.44	1.39
1	N	302	G	C4'-C3'	6.49	1.60	1.53
1	N	1134	G	C5'-C4'	6.49	1.59	1.51
1	N	385	C	C4-C5	6.49	1.48	1.43
1	N	1185	G	C6-N1	6.49	1.44	1.39
1	N	77	A	C5'-C4'	6.49	1.59	1.51
1	N	255	G	C2'-C1'	-6.49	1.46	1.53
1	N	335	C	C1'-N1	6.49	1.58	1.48
1	N	587	G	C6-N1	6.49	1.44	1.39
1	N	941	G	C2-N2	6.49	1.41	1.34
1	N	1225	A	C5'-C4'	6.49	1.59	1.51
1	N	1475	G	C2-N2	6.49	1.41	1.34
1	N	293	G	O5'-C5'	-6.48	1.32	1.42
1	N	333	U	C1'-N1	6.48	1.58	1.48
1	N	707	U	C5-C6	6.48	1.40	1.34
1	N	844	G	C5-C6	-6.48	1.35	1.42
1	N	936	C	C3'-C2'	-6.48	1.45	1.52
1	N	1074	G	C2-N3	6.48	1.38	1.32
1	N	716	A	C8-N7	-6.48	1.27	1.31
1	N	1282	C	C2'-C1'	-6.48	1.46	1.53
1	N	955	U	C3'-O3'	6.48	1.51	1.42
1	N	1053	G	C5-C6	6.48	1.48	1.42
1	N	1288	A	C5'-C4'	6.48	1.59	1.51
1	N	1342	C	C3'-C2'	-6.48	1.45	1.52
1	N	1388	C	N1-C6	6.48	1.41	1.37
1	N	141	G	C2'-C1'	-6.47	1.46	1.53
1	N	729	A	C6-N1	6.47	1.40	1.35
1	N	1084	G	P-O5'	-6.47	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	247	G	C6-N1	6.47	1.44	1.39
1	N	1095	U	C2-N3	6.47	1.42	1.37
1	N	1346	A	C2-N3	6.47	1.39	1.33
1	N	1349	A	C5'-C4'	6.47	1.59	1.51
1	N	90	C	O3'-P	-6.47	1.53	1.61
1	N	1156	G	C5-C4	-6.47	1.33	1.38
1	N	386	C	C3'-C2'	6.46	1.60	1.52
1	N	992	U	C2-N3	6.46	1.42	1.37
1	N	1036	A	C8-N7	-6.46	1.27	1.31
1	N	299	G	N3-C4	6.46	1.40	1.35
1	N	75	G	N3-C4	-6.46	1.30	1.35
1	N	580	C	O3'-P	-6.46	1.53	1.61
1	N	766	A	N7-C5	-6.46	1.35	1.39
1	N	887	G	N9-C8	6.46	1.42	1.37
1	N	1475	G	N3-C4	-6.46	1.30	1.35
1	N	926	G	C6-N1	6.46	1.44	1.39
1	N	453	G	P-O5'	6.46	1.66	1.59
1	N	415	A	C4'-C3'	6.45	1.60	1.53
1	N	1017	U	N1-C6	6.45	1.43	1.38
1	N	1216	A	C5-C6	6.45	1.46	1.41
1	N	951	G	N3-C4	-6.45	1.30	1.35
1	N	72	A	C8-N7	-6.45	1.27	1.31
1	N	570	G	C2-N3	6.45	1.38	1.32
1	N	731	G	N7-C5	-6.45	1.35	1.39
1	N	962	C	C3'-O3'	6.45	1.51	1.42
1	N	1362	A	C6-N6	6.45	1.39	1.33
1	N	1366	C	P-O5'	-6.45	1.53	1.59
1	N	1393	U	C4'-O4'	6.45	1.53	1.45
1	N	1504	G	C6-N1	6.45	1.44	1.39
1	N	690	G	C6-N1	6.45	1.44	1.39
1	N	1407	C	P-O5'	-6.45	1.53	1.59
1	N	152	A	C3'-C2'	-6.45	1.45	1.52
1	N	270	A	C6-N6	6.45	1.39	1.33
1	N	1318	A	N9-C8	-6.45	1.32	1.37
1	N	1448	C	C4-N4	6.45	1.39	1.33
1	N	1533	C	P-O5'	-6.44	1.53	1.59
1	N	504	C	N1-C6	6.44	1.41	1.37
1	N	696	A	C5-C4	6.44	1.43	1.38
1	N	1014	A	C5-C4	6.44	1.43	1.38
1	N	1025	U	C5'-C4'	6.44	1.59	1.51
1	N	152	A	N3-C4	-6.44	1.30	1.34
1	N	464	U	C4'-C3'	6.44	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1223	C	C2-N3	6.44	1.41	1.35
1	N	901	A	N7-C5	-6.44	1.35	1.39
1	N	955	U	C3'-C2'	-6.44	1.45	1.52
1	N	1529	G	C4'-C3'	6.44	1.60	1.53
1	N	446	G	C6-O6	-6.44	1.18	1.24
1	N	1330	U	C2-N3	6.44	1.42	1.37
1	N	1323	G	N7-C5	-6.44	1.35	1.39
1	N	338	A	C1'-N9	6.43	1.58	1.48
1	N	104	G	C2-N3	6.43	1.37	1.32
1	N	478	A	C3'-C2'	-6.43	1.45	1.52
1	N	566	G	N1-C2	6.43	1.42	1.37
1	N	749	A	C5-C4	6.43	1.43	1.38
1	N	862	C	C3'-C2'	6.43	1.60	1.52
1	N	1210	C	O3'-P	-6.43	1.53	1.61
1	N	820	U	N1-C2	6.43	1.44	1.38
1	N	1144	G	N9-C8	6.43	1.42	1.37
1	N	507	C	C2'-C1'	-6.43	1.46	1.53
1	N	420	U	P-O5'	6.43	1.66	1.59
1	N	115	G	C2-N3	6.42	1.37	1.32
1	N	152	A	N7-C5	-6.42	1.35	1.39
1	N	1086	U	C2'-C1'	-6.42	1.46	1.53
1	N	1490	U	C2-O2	6.42	1.28	1.22
1	N	15	G	C2-N3	6.42	1.37	1.32
1	N	564	C	N1-C2	6.42	1.46	1.40
1	N	687	A	O3'-P	-6.42	1.53	1.61
1	N	796	C	O3'-P	6.42	1.68	1.61
1	N	1454	G	P-O5'	-6.42	1.53	1.59
1	N	532	A	N7-C5	-6.42	1.35	1.39
1	N	362	G	C2'-C1'	-6.41	1.46	1.53
1	N	810	C	N1-C6	6.41	1.41	1.37
1	N	1112	C	C2-N3	6.41	1.40	1.35
1	N	284	C	C1'-N1	6.41	1.58	1.48
1	N	576	C	N1-C6	6.41	1.41	1.37
1	N	1100	C	C4-N4	6.41	1.39	1.33
1	N	1445	U	C4-C5	6.41	1.49	1.43
1	N	118	U	C1'-N1	6.41	1.58	1.48
1	N	334	C	C4-N4	6.41	1.39	1.33
1	N	535	A	C6-N6	6.41	1.39	1.33
1	N	1065	U	O3'-P	-6.41	1.53	1.61
1	N	514	C	C4-N4	6.41	1.39	1.33
1	N	550	G	C5-C6	-6.41	1.35	1.42
1	N	713	G	C4'-O4'	-6.41	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	794	A	C2'-C1'	-6.41	1.46	1.53
1	N	913	A	N9-C8	6.41	1.42	1.37
1	N	443	C	C1'-N1	6.41	1.58	1.48
1	N	122	G	N9-C8	6.41	1.42	1.37
1	N	1146	A	C5-C4	6.41	1.43	1.38
1	N	121	U	N1-C6	6.40	1.43	1.38
1	N	428	G	C4'-O4'	-6.40	1.37	1.45
1	N	847	G	C6-N1	6.40	1.44	1.39
1	N	543	U	P-O5'	-6.40	1.53	1.59
1	N	582	C	P-O5'	-6.40	1.53	1.59
1	N	655	A	N7-C5	-6.40	1.35	1.39
1	N	124	C	O3'-P	-6.40	1.53	1.61
1	N	490	C	C2-O2	6.40	1.30	1.24
1	N	634	C	C4-C5	6.40	1.48	1.43
1	N	1367	C	N3-C4	6.40	1.38	1.33
1	N	605	U	C4'-O4'	-6.40	1.37	1.45
1	N	1439	G	C4'-C3'	6.40	1.60	1.53
1	N	1447	A	N3-C4	6.40	1.38	1.34
1	N	1025	U	C4-O4	6.40	1.28	1.23
1	N	1236	A	C4'-O4'	6.39	1.53	1.45
1	N	373	A	N3-C4	-6.39	1.31	1.34
1	N	200	G	N1-C2	6.39	1.42	1.37
1	N	86	G	C2-N2	6.39	1.41	1.34
1	N	345	C	C2-N3	6.39	1.40	1.35
1	N	832	G	C5-C4	-6.39	1.33	1.38
1	N	787	A	N3-C4	6.39	1.38	1.34
1	N	968	A	C2-N3	-6.39	1.27	1.33
1	N	988	G	N7-C5	-6.39	1.35	1.39
1	N	1079	G	C5-C4	6.39	1.42	1.38
1	N	57	G	N3-C4	6.38	1.40	1.35
1	N	488	C	C4-N4	6.38	1.39	1.33
1	N	1057	G	N9-C4	-6.38	1.32	1.38
1	N	1352	C	N3-C4	6.38	1.38	1.33
1	N	573	A	C6-N6	6.38	1.39	1.33
1	N	751	U	C2'-C1'	-6.38	1.46	1.53
1	N	942	G	C4'-O4'	6.38	1.53	1.45
1	N	1240	U	C5'-C4'	6.38	1.59	1.51
1	N	1369	C	P-O5'	-6.38	1.53	1.59
1	N	202	G	O3'-P	-6.38	1.53	1.61
1	N	211	G	C2-N3	6.38	1.37	1.32
1	N	331	G	N7-C5	-6.38	1.35	1.39
1	N	1053	G	C5-C4	-6.38	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	302	G	C2'-C1'	6.38	1.60	1.53
1	N	625	U	N3-C4	6.38	1.44	1.38
1	N	925	G	P-O5'	-6.38	1.53	1.59
1	N	572	A	C5'-C4'	6.38	1.58	1.51
1	N	744	C	C4-N4	6.38	1.39	1.33
1	N	86	G	N9-C4	6.37	1.43	1.38
1	N	568	G	C2-N2	6.37	1.41	1.34
1	N	1176	A	C8-N7	6.37	1.36	1.31
1	N	51	A	C2-N3	6.37	1.39	1.33
1	N	76	G	C4'-C3'	6.37	1.60	1.53
1	N	1427	C	N1-C6	6.37	1.41	1.37
1	N	1446	A	N7-C5	-6.37	1.35	1.39
1	N	23	C	P-O5'	6.37	1.66	1.59
1	N	958	A	C6-N6	6.37	1.39	1.33
1	N	1466	C	C5'-C4'	6.37	1.58	1.51
1	N	572	A	C4'-O4'	-6.37	1.37	1.45
1	N	1450	U	C3'-C2'	6.37	1.59	1.52
1	N	172	A	N7-C5	-6.36	1.35	1.39
1	N	503	C	N1-C6	6.36	1.41	1.37
1	N	769	G	C2-N3	6.36	1.37	1.32
1	N	222	C	C2-O2	6.36	1.30	1.24
1	N	910	C	N1-C2	6.36	1.46	1.40
1	N	1454	G	C8-N7	-6.36	1.27	1.30
1	N	1506	U	C1'-N1	6.36	1.58	1.48
1	N	1434	A	C2'-C1'	-6.35	1.46	1.53
1	N	890	G	C6-N1	6.35	1.44	1.39
1	N	915	A	C6-N1	6.35	1.40	1.35
1	N	1301	U	C1'-N1	6.35	1.58	1.48
1	N	966	G	C8-N7	-6.35	1.27	1.30
1	N	673	A	N3-C4	6.35	1.38	1.34
1	N	949	A	C5-C4	6.35	1.43	1.38
1	N	579	A	N3-C4	6.35	1.38	1.34
1	N	620	C	P-O5'	-6.35	1.53	1.59
1	N	674	G	C2-N3	6.35	1.37	1.32
1	N	1197	A	P-O5'	6.34	1.66	1.59
1	N	377	G	P-O5'	-6.34	1.53	1.59
1	N	550	G	C5'-C4'	6.34	1.58	1.51
1	N	1270	G	C5-C4	6.34	1.42	1.38
1	N	327	A	P-O5'	6.34	1.66	1.59
1	N	538	G	C4'-C3'	6.34	1.60	1.53
1	N	734	G	N1-C2	6.34	1.42	1.37
1	N	203	G	N7-C5	-6.34	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	481	G	C8-N7	-6.34	1.27	1.30
1	N	343	U	C1'-N1	6.34	1.58	1.48
1	N	1264	U	C2-N3	6.34	1.42	1.37
1	N	345	C	N1-C6	6.33	1.41	1.37
1	N	1237	C	N3-C4	6.33	1.38	1.33
1	N	1252	A	C6-N1	6.33	1.40	1.35
1	N	889	A	C6-N6	6.33	1.39	1.33
1	N	1001	C	C4-N4	6.33	1.39	1.33
1	N	1270	G	N3-C4	-6.33	1.31	1.35
1	N	613	C	C4-N4	6.33	1.39	1.33
1	N	1090	U	N1-C2	-6.33	1.32	1.38
1	N	55	A	C4'-C3'	6.33	1.60	1.53
1	N	494	G	C5-C4	-6.33	1.33	1.38
1	N	1073	U	O3'-P	-6.33	1.53	1.61
1	N	1132	C	C2-N3	-6.33	1.30	1.35
1	N	589	U	N1-C6	6.33	1.43	1.38
1	N	796	C	C2'-C1'	6.33	1.60	1.53
1	N	13	U	C4'-C3'	6.33	1.60	1.53
1	N	746	A	N7-C5	-6.33	1.35	1.39
1	N	134	G	O4'-C1'	6.32	1.49	1.41
1	N	399	G	P-O5'	-6.32	1.53	1.59
1	N	420	U	C4-C5	6.32	1.49	1.43
1	N	1329	A	C4'-C3'	6.32	1.60	1.53
1	N	228	A	N3-C4	6.32	1.38	1.34
1	N	131	A	N3-C4	6.32	1.38	1.34
1	N	1363	A	N9-C8	6.32	1.42	1.37
1	N	64	G	N3-C4	6.32	1.39	1.35
1	N	155	A	C6-N6	6.32	1.39	1.33
1	N	418	C	C4-C5	6.32	1.48	1.43
1	N	724	G	N3-C4	-6.32	1.31	1.35
1	N	704	A	C2'-C1'	-6.31	1.46	1.53
1	N	1162	C	C5'-C4'	6.31	1.58	1.51
1	N	185	U	N1-C6	6.31	1.43	1.38
1	N	1087	G	C6-N1	6.31	1.44	1.39
1	N	416	G	C2'-C1'	-6.31	1.46	1.53
1	N	41	G	C5-C6	-6.31	1.36	1.42
1	N	375	U	C3'-C2'	-6.31	1.45	1.52
1	N	456	A	N3-C4	-6.31	1.31	1.34
1	N	868	C	O4'-C1'	6.31	1.49	1.41
1	N	925	G	C5-C6	6.31	1.48	1.42
1	N	1328	C	N1-C2	6.31	1.46	1.40
1	N	88	U	C2-N3	6.30	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	629	A	P-O5'	-6.30	1.53	1.59
1	N	661	G	C5-C4	6.30	1.42	1.38
1	N	20	U	C5'-C4'	6.30	1.58	1.51
1	N	723	U	C2'-C1'	6.30	1.60	1.53
1	N	999	C	C5'-C4'	-6.30	1.43	1.51
1	N	1057	G	C4'-C3'	6.30	1.60	1.53
1	N	1405	G	C5-C4	-6.30	1.33	1.38
1	N	1154	G	C4'-C3'	6.30	1.60	1.53
1	N	266	G	C8-N7	-6.30	1.27	1.30
1	N	1461	G	C5-C4	6.30	1.42	1.38
1	N	1018	G	C2-N2	6.29	1.40	1.34
1	N	623	C	C4'-C3'	-6.29	1.46	1.53
1	N	673	A	O3'-P	6.29	1.68	1.61
1	N	773	G	N7-C5	6.29	1.43	1.39
1	N	1087	G	O3'-P	-6.29	1.53	1.61
1	N	1167	A	N3-C4	6.29	1.38	1.34
1	N	1213	A	C2'-C1'	-6.29	1.46	1.53
1	N	194	C	C4-N4	6.29	1.39	1.33
1	N	36	C	P-O5'	-6.29	1.53	1.59
1	N	56	U	C4'-O4'	6.29	1.53	1.45
1	N	899	C	C4'-C3'	6.29	1.60	1.53
1	N	413	G	C5-C4	6.29	1.42	1.38
1	N	200	G	C5-C6	-6.29	1.36	1.42
1	N	969	A	N9-C4	6.29	1.41	1.37
1	N	1035	A	C3'-O3'	6.29	1.50	1.42
1	N	887	G	C5-C4	-6.28	1.33	1.38
1	N	1012	A	N9-C8	6.28	1.42	1.37
1	N	1462	C	O3'-P	-6.28	1.53	1.61
1	N	558	G	N1-C2	6.28	1.42	1.37
1	N	958	A	N9-C4	6.28	1.41	1.37
1	N	1187	G	N1-C2	6.28	1.42	1.37
1	N	119	A	C6-N6	6.28	1.39	1.33
1	N	1163	A	N9-C4	-6.28	1.34	1.37
1	N	79	G	N7-C5	6.28	1.43	1.39
1	N	80	A	N9-C4	-6.28	1.34	1.37
1	N	654	G	N3-C4	-6.28	1.31	1.35
1	N	841	C	C5-C6	6.28	1.39	1.34
1	N	1057	G	C8-N7	-6.28	1.27	1.30
1	N	1114	C	C4'-C3'	6.28	1.60	1.53
1	N	563	A	N9-C4	6.27	1.41	1.37
1	N	723	U	C4-O4	6.27	1.28	1.23
1	N	1098	C	N1-C6	6.27	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	109	A	O5'-C5'	-6.27	1.32	1.42
1	N	296	U	C2-N3	6.27	1.42	1.37
1	N	659	U	P-O5'	-6.27	1.53	1.59
1	N	30	U	C4'-O4'	-6.27	1.37	1.45
1	N	688	G	N3-C4	6.27	1.39	1.35
1	N	1148	U	C2-N3	6.27	1.42	1.37
1	N	202	G	N1-C2	6.26	1.42	1.37
1	N	730	G	C5'-C4'	-6.26	1.43	1.51
1	N	1499	A	N1-C2	6.26	1.40	1.34
1	N	84	U	C5'-C4'	6.26	1.58	1.51
1	N	268	U	P-O5'	-6.26	1.53	1.59
1	N	482	A	C4'-C3'	6.26	1.60	1.53
1	N	770	C	N1-C6	6.26	1.41	1.37
1	N	1486	G	N3-C4	-6.26	1.31	1.35
1	N	325	A	N3-C4	-6.26	1.31	1.34
1	N	1044	A	C5'-C4'	6.26	1.58	1.51
1	N	363	A	N7-C5	-6.26	1.35	1.39
1	N	485	U	N1-C6	-6.26	1.32	1.38
1	N	1118	U	C5-C6	-6.26	1.28	1.34
1	N	280	C	C2-N3	6.26	1.40	1.35
1	N	666	G	C6-N1	6.26	1.44	1.39
1	N	308	C	C2-N3	6.25	1.40	1.35
1	N	1087	G	C5'-C4'	6.25	1.58	1.51
1	N	541	G	C5-C4	6.25	1.42	1.38
1	N	310	G	N1-C2	6.25	1.42	1.37
1	N	427	U	C4-C5	6.25	1.49	1.43
1	N	959	A	C6-N6	6.25	1.39	1.33
1	N	1231	G	N3-C4	-6.25	1.31	1.35
1	N	1479	C	N3-C4	6.25	1.38	1.33
1	N	1006	G	C5-C6	-6.25	1.36	1.42
1	N	57	G	C6-N1	6.25	1.44	1.39
1	N	1219	A	O3'-P	-6.25	1.53	1.61
1	N	253	A	C8-N7	-6.24	1.27	1.31
1	N	412	A	C8-N7	6.24	1.35	1.31
1	N	674	G	N9-C8	6.24	1.42	1.37
1	N	1024	G	N7-C5	-6.24	1.35	1.39
1	N	1031	C	C4-C5	-6.24	1.38	1.43
1	N	508	U	C5-C6	6.24	1.39	1.34
1	N	582	C	C4-N4	6.24	1.39	1.33
1	N	759	A	N9-C4	6.24	1.41	1.37
1	N	929	G	C2-N2	6.24	1.40	1.34
1	N	577	G	O4'-C1'	-6.24	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	900	A	C6-N6	6.24	1.39	1.33
1	N	1243	C	C4'-C3'	-6.24	1.46	1.53
1	N	1269	A	O3'-P	-6.24	1.53	1.61
1	N	1432	G	C3'-O3'	6.24	1.50	1.42
1	N	497	G	P-O5'	-6.24	1.53	1.59
1	N	133	U	N3-C4	6.24	1.44	1.38
1	N	711	G	N9-C4	-6.24	1.32	1.38
1	N	19	A	N9-C8	-6.23	1.32	1.37
1	N	1053	G	C8-N7	-6.23	1.27	1.30
1	N	1262	C	N3-C4	6.23	1.38	1.33
1	N	46	G	N3-C4	-6.23	1.31	1.35
1	N	766	A	C8-N7	-6.23	1.27	1.31
1	N	1280	A	O3'-P	-6.23	1.53	1.61
1	N	1451	U	C2-N3	6.23	1.42	1.37
1	N	342	C	C4'-C3'	-6.23	1.46	1.53
1	N	365	U	C4-C5	6.23	1.49	1.43
1	N	653	U	N3-C4	-6.23	1.32	1.38
1	N	1346	A	C5-C4	6.23	1.43	1.38
1	N	1399	C	N3-C4	6.23	1.38	1.33
1	N	297	G	N9-C8	6.23	1.42	1.37
1	N	9	G	N9-C4	-6.23	1.32	1.38
1	N	23	C	C3'-C2'	-6.23	1.46	1.52
1	N	35	G	C5-C4	6.23	1.42	1.38
1	N	1428	A	C5-C6	6.23	1.46	1.41
1	N	1428	A	C5-C4	6.23	1.43	1.38
1	N	870	U	C2-N3	-6.23	1.33	1.37
1	N	491	G	N9-C4	-6.22	1.32	1.38
1	N	1440	U	N1-C6	-6.22	1.32	1.38
1	N	106	C	C5-C6	-6.22	1.29	1.34
1	N	1048	G	N3-C4	6.22	1.39	1.35
1	N	73	C	C2-O2	6.22	1.30	1.24
1	N	926	G	N3-C4	-6.22	1.31	1.35
1	N	1476	A	C6-N6	6.22	1.39	1.33
1	N	467	U	N1-C6	-6.22	1.32	1.38
1	N	158	G	N3-C4	-6.22	1.31	1.35
1	N	690	G	P-O5'	-6.22	1.53	1.59
1	N	87	C	N3-C4	6.21	1.38	1.33
1	N	322	C	N1-C6	-6.21	1.33	1.37
1	N	771	G	O3'-P	-6.21	1.53	1.61
1	N	1359	C	C1'-N1	6.21	1.58	1.48
1	N	817	C	C4'-C3'	6.21	1.59	1.53
1	N	1336	C	C4-N4	6.21	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	565	U	C2-O2	6.21	1.27	1.22
1	N	794	A	C5-C4	6.21	1.43	1.38
1	N	530	G	C6-N1	6.21	1.43	1.39
1	N	625	U	C4-C5	6.21	1.49	1.43
1	N	648	A	C2'-C1'	-6.21	1.46	1.53
1	N	130	A	C5'-C4'	6.21	1.58	1.51
1	N	546	A	C6-N1	6.21	1.39	1.35
1	N	957	U	C1'-N1	6.21	1.58	1.48
1	N	993	G	C2-N2	6.21	1.40	1.34
1	N	1234	C	C2'-C1'	6.21	1.60	1.53
1	N	1287	A	N7-C5	-6.21	1.35	1.39
1	N	280	C	C4-C5	6.21	1.48	1.43
1	N	154	U	C2-N3	6.20	1.42	1.37
1	N	276	G	C2'-C1'	-6.20	1.46	1.53
1	N	393	A	C5-C4	6.20	1.43	1.38
1	N	1174	G	C2-N2	6.20	1.40	1.34
1	N	1498	U	C2'-C1'	-6.20	1.46	1.53
1	N	1106	G	C2-N3	6.20	1.37	1.32
1	N	16	A	N7-C5	-6.20	1.35	1.39
1	N	233	C	C5'-C4'	6.20	1.58	1.51
1	N	507	C	C4-N4	6.20	1.39	1.33
1	N	680	C	P-O5'	-6.20	1.53	1.59
1	N	1173	U	N3-C4	6.20	1.44	1.38
1	N	1195	C	C4-C5	6.20	1.48	1.43
1	N	1197	A	N3-C4	6.20	1.38	1.34
1	N	868	C	N1-C6	6.20	1.40	1.37
1	N	1001	C	C2-N3	6.20	1.40	1.35
1	N	93	U	O3'-P	-6.19	1.53	1.61
1	N	352	C	N3-C4	6.19	1.38	1.33
1	N	462	G	C4'-O4'	6.19	1.53	1.45
1	N	1060	U	N3-C4	6.19	1.44	1.38
1	N	1171	A	N9-C8	6.19	1.42	1.37
1	N	369	G	C2'-C1'	-6.19	1.46	1.53
1	N	425	G	C8-N7	6.19	1.34	1.30
1	N	595	A	N7-C5	-6.19	1.35	1.39
1	N	854	U	C2-N3	-6.19	1.33	1.37
1	N	1220	G	C3'-C2'	6.19	1.59	1.52
1	N	690	G	C2-N3	6.19	1.37	1.32
1	N	1234	C	C4'-O4'	6.19	1.53	1.45
1	N	52	C	C2-N3	6.19	1.40	1.35
1	N	78	A	N9-C8	6.19	1.42	1.37
1	N	695	A	C6-N6	6.19	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1061	G	C4'-C3'	6.19	1.59	1.53
1	N	433	G	N9-C4	-6.19	1.33	1.38
1	N	651	C	N3-C4	6.19	1.38	1.33
1	N	1511	G	N7-C5	-6.19	1.35	1.39
1	N	366	A	N7-C5	-6.18	1.35	1.39
1	N	422	C	N1-C6	6.18	1.40	1.37
1	N	1022	A	P-O5'	6.18	1.66	1.59
1	N	226	G	N1-C2	6.18	1.42	1.37
1	N	411	A	C6-N6	6.18	1.38	1.33
1	N	735	C	P-O5'	-6.18	1.53	1.59
1	N	235	C	C4-N4	6.18	1.39	1.33
1	N	107	G	C2-N3	6.18	1.37	1.32
1	N	715	A	C8-N7	6.18	1.35	1.31
1	N	958	A	C4'-C3'	6.18	1.59	1.53
1	N	1321	U	C4-C5	6.18	1.49	1.43
1	N	1467	C	C2'-C1'	-6.18	1.46	1.53
1	N	609	A	N3-C4	-6.18	1.31	1.34
1	N	913	A	C6-N1	6.18	1.39	1.35
1	N	944	G	C5-C4	-6.18	1.34	1.38
1	N	33	A	C6-N6	6.17	1.38	1.33
1	N	673	A	P-O5'	-6.17	1.53	1.59
1	N	698	G	N1-C2	6.17	1.42	1.37
1	N	778	G	N9-C8	-6.17	1.33	1.37
1	N	1214	C	N3-C4	6.17	1.38	1.33
1	N	776	G	N1-C2	6.17	1.42	1.37
1	N	971	G	C6-N1	-6.17	1.35	1.39
1	N	1137	C	C5-C6	6.17	1.39	1.34
1	N	501	C	C1'-N1	6.17	1.58	1.48
1	N	1161	C	C4'-O4'	6.17	1.53	1.45
1	N	1357	A	C5-C4	6.17	1.43	1.38
1	N	1188	A	C5'-C4'	6.17	1.58	1.51
1	N	1349	A	C4'-C3'	6.17	1.59	1.53
1	N	873	A	C8-N7	-6.17	1.27	1.31
1	N	1168	U	O4'-C1'	-6.17	1.33	1.41
1	N	293	G	N9-C8	6.16	1.42	1.37
1	N	319	G	C2'-C1'	-6.16	1.46	1.53
1	N	1194	U	N1-C2	6.16	1.44	1.38
1	N	760	G	C6-N1	6.16	1.43	1.39
1	N	484	G	C3'-C2'	-6.16	1.46	1.52
1	N	929	G	C5-C4	-6.16	1.34	1.38
1	N	61	G	N1-C2	6.16	1.42	1.37
1	N	1182	G	O3'-P	-6.16	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1417	G	C2'-C1'	-6.16	1.46	1.53
1	N	670	G	C8-N7	-6.16	1.27	1.30
1	N	1483	A	C2'-C1'	-6.16	1.46	1.53
1	N	783	C	C2'-C1'	6.16	1.60	1.53
1	N	1006	G	C4'-C3'	-6.16	1.46	1.53
1	N	1074	G	C3'-C2'	-6.16	1.46	1.52
1	N	1239	A	O3'-P	-6.16	1.53	1.61
1	N	235	C	C5'-C4'	6.15	1.58	1.51
1	N	588	G	C8-N7	-6.15	1.27	1.30
1	N	1223	C	N1-C6	6.15	1.40	1.37
1	N	127	G	N1-C2	6.15	1.42	1.37
1	N	908	A	N9-C4	6.15	1.41	1.37
1	N	937	A	C6-N6	6.15	1.38	1.33
1	N	855	U	O3'-P	-6.15	1.53	1.61
1	N	1446	A	C6-N1	6.15	1.39	1.35
1	N	1449	C	N1-C6	6.15	1.40	1.37
1	N	1454	G	C4'-C3'	6.15	1.59	1.53
1	N	641	U	C4-O4	6.15	1.28	1.23
1	N	699	C	C4'-C3'	6.15	1.59	1.53
1	N	829	G	C2'-C1'	-6.15	1.46	1.53
1	N	1224	U	N1-C2	6.15	1.44	1.38
1	N	1363	A	N7-C5	-6.15	1.35	1.39
1	N	574	A	C6-N1	6.15	1.39	1.35
1	N	830	G	N7-C5	-6.15	1.35	1.39
1	N	557	G	C2'-C1'	-6.14	1.46	1.53
1	N	495	A	C6-N1	-6.14	1.31	1.35
1	N	507	C	O3'-P	-6.14	1.53	1.61
1	N	560	A	C5'-C4'	6.14	1.58	1.51
1	N	903	G	C2'-C1'	-6.14	1.46	1.53
1	N	1504	G	N7-C5	-6.14	1.35	1.39
1	N	1513	A	C2'-C1'	-6.14	1.46	1.53
1	N	287	U	C3'-O3'	6.14	1.50	1.42
1	N	971	G	C4'-C3'	6.14	1.59	1.53
1	N	1250	A	P-O5'	-6.14	1.53	1.59
1	N	1317	C	O3'-P	6.14	1.68	1.61
1	N	1359	C	C5-C6	6.14	1.39	1.34
1	N	16	A	P-O5'	6.14	1.65	1.59
1	N	1133	G	N7-C5	-6.14	1.35	1.39
1	N	671	G	N9-C4	-6.13	1.33	1.38
1	N	29	U	C4'-O4'	-6.13	1.37	1.45
1	N	266	G	C6-N1	6.13	1.43	1.39
1	N	450	G	P-O5'	-6.13	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	876	C	C4'-C3'	-6.13	1.46	1.53
1	N	1144	G	C5-C4	6.13	1.42	1.38
1	N	45	G	P-O5'	-6.13	1.53	1.59
1	N	63	C	N3-C4	6.13	1.38	1.33
1	N	563	A	C3'-O3'	6.13	1.50	1.42
1	N	944	G	N7-C5	-6.13	1.35	1.39
1	N	908	A	N3-C4	-6.12	1.31	1.34
1	N	9	G	N7-C5	-6.12	1.35	1.39
1	N	440	C	P-O5'	-6.12	1.53	1.59
1	N	445	G	C2-N2	6.12	1.40	1.34
1	N	448	A	C6-N6	6.12	1.38	1.33
1	N	1487	G	C4'-C3'	6.12	1.59	1.53
1	N	180	U	C4-O4	-6.12	1.18	1.23
1	N	922	G	C2-N3	6.12	1.37	1.32
1	N	1032	G	N3-C4	-6.12	1.31	1.35
1	N	1102	A	C2'-C1'	-6.12	1.46	1.53
1	N	1457	G	C4'-O4'	-6.12	1.37	1.45
1	N	1525	G	C8-N7	-6.12	1.27	1.30
1	N	259	G	C6-O6	6.12	1.29	1.24
1	N	79	G	N9-C8	-6.11	1.33	1.37
1	N	245	U	C3'-O3'	6.11	1.50	1.42
1	N	1288	A	C3'-O3'	6.11	1.50	1.42
1	N	1337	G	N9-C8	6.11	1.42	1.37
1	N	1318	A	N7-C5	-6.11	1.35	1.39
1	N	853	C	C2-N3	6.11	1.40	1.35
1	N	617	G	C8-N7	-6.11	1.27	1.30
1	N	900	A	N3-C4	6.11	1.38	1.34
1	N	107	G	N9-C8	6.11	1.42	1.37
1	N	264	C	C3'-C2'	-6.11	1.46	1.52
1	N	533	A	C4'-O4'	-6.11	1.37	1.45
1	N	856	C	C4-N4	6.11	1.39	1.33
1	N	1460	C	N1-C6	-6.11	1.33	1.37
1	N	133	U	P-O5'	6.10	1.65	1.59
1	N	304	U	N1-C6	6.10	1.43	1.38
1	N	821	G	C3'-O3'	6.10	1.50	1.42
1	N	1208	C	P-O5'	-6.10	1.53	1.59
1	N	735	C	O3'-P	-6.10	1.53	1.61
1	N	892	A	N7-C5	-6.10	1.35	1.39
1	N	15	G	N7-C5	-6.10	1.35	1.39
1	N	28	A	C6-N1	6.10	1.39	1.35
1	N	30	U	O4'-C1'	-6.10	1.33	1.41
1	N	98	A	C5'-C4'	6.10	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	176	C	C4-N4	6.10	1.39	1.33
1	N	444	G	P-O5'	-6.10	1.53	1.59
1	N	647	C	N1-C2	-6.10	1.34	1.40
1	N	722	G	C5'-C4'	6.10	1.58	1.51
1	N	727	G	N7-C5	6.10	1.43	1.39
1	N	539	A	C4'-C3'	-6.10	1.46	1.53
1	N	926	G	C2-N3	6.10	1.37	1.32
1	N	1253	G	C6-N1	6.10	1.43	1.39
1	N	141	G	C2-N3	6.09	1.37	1.32
1	N	234	C	N1-C2	-6.09	1.34	1.40
1	N	270	A	N9-C8	6.09	1.42	1.37
1	N	326	G	N7-C5	6.09	1.43	1.39
1	N	785	G	N7-C5	-6.09	1.35	1.39
1	N	789	U	C4'-O4'	6.09	1.53	1.45
1	N	1308	U	C2-N3	6.09	1.42	1.37
1	N	1476	A	N9-C8	-6.09	1.32	1.37
1	N	1005	A	C6-N1	6.09	1.39	1.35
1	N	1186	G	N9-C4	-6.09	1.33	1.38
1	N	77	A	C6-N1	6.09	1.39	1.35
1	N	129	A	C6-N1	6.09	1.39	1.35
1	N	1526	G	N9-C8	6.09	1.42	1.37
1	N	778	G	C5-C6	-6.09	1.36	1.42
1	N	833	G	C5'-C4'	6.09	1.58	1.51
1	N	257	G	N7-C5	-6.09	1.35	1.39
1	N	715	A	C2'-C1'	-6.09	1.46	1.53
1	N	163	C	C5-C6	-6.08	1.29	1.34
1	N	494	G	O3'-P	-6.08	1.53	1.61
1	N	726	C	N1-C6	-6.08	1.33	1.37
1	N	1096	C	C2-N3	6.08	1.40	1.35
1	N	1197	A	C8-N7	-6.08	1.27	1.31
1	N	402	G	N9-C8	6.08	1.42	1.37
1	N	321	A	C8-N7	-6.08	1.27	1.31
1	N	890	G	C3'-C2'	-6.08	1.46	1.52
1	N	1157	A	C6-N6	6.08	1.38	1.33
1	N	1166	G	N9-C8	6.08	1.42	1.37
1	N	79	G	C2-N3	6.08	1.37	1.32
1	N	234	C	N3-C4	6.08	1.38	1.33
1	N	1377	A	O3'-P	-6.08	1.53	1.61
1	N	153	C	C4-N4	6.08	1.39	1.33
1	N	287	U	C2'-C1'	6.08	1.60	1.53
1	N	309	A	C8-N7	-6.08	1.27	1.31
1	N	473	U	C4-C5	-6.08	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1058	G	C6-O6	-6.08	1.18	1.24
1	N	1309	G	C3'-C2'	-6.08	1.46	1.52
1	N	1531	A	P-O5'	-6.08	1.53	1.59
1	N	174	A	C8-N7	-6.07	1.27	1.31
1	N	494	G	N1-C2	6.07	1.42	1.37
1	N	749	A	C3'-C2'	6.07	1.59	1.52
1	N	1530	G	C5'-C4'	6.07	1.58	1.51
1	N	729	A	C2'-C1'	-6.07	1.46	1.53
1	N	886	G	N9-C4	-6.07	1.33	1.38
1	N	979	C	C2-N3	6.07	1.40	1.35
1	N	1385	G	C5'-C4'	6.07	1.58	1.51
1	N	161	A	C5-C4	6.07	1.43	1.38
1	N	588	G	C2-N3	6.07	1.37	1.32
1	N	885	G	C2-N2	6.07	1.40	1.34
1	N	1131	G	N3-C4	6.07	1.39	1.35
1	N	1305	G	C5-C4	6.07	1.42	1.38
1	N	1343	G	C4'-C3'	-6.07	1.46	1.53
1	N	556	C	C3'-C2'	6.07	1.59	1.52
1	N	1006	G	C3'-C2'	6.07	1.59	1.52
1	N	1115	U	C2'-C1'	-6.07	1.46	1.53
1	N	1515	G	C5'-C4'	6.07	1.58	1.51
1	N	163	C	N3-C4	6.07	1.38	1.33
1	N	558	G	C8-N7	-6.07	1.27	1.30
1	N	1002	G	C3'-O3'	6.07	1.50	1.42
1	N	1151	A	C5'-C4'	6.07	1.58	1.51
1	N	1162	C	C2-O2	-6.07	1.19	1.24
1	N	1099	G	N7-C5	-6.06	1.35	1.39
1	N	319	G	C6-N1	6.06	1.43	1.39
1	N	337	G	C2'-C1'	6.06	1.60	1.53
1	N	1004	A	N7-C5	-6.06	1.35	1.39
1	N	915	A	C4'-O4'	6.06	1.53	1.45
1	N	1005	A	C6-N6	6.06	1.38	1.33
1	N	326	G	C5-C6	-6.06	1.36	1.42
1	N	409	U	C2-N3	6.06	1.42	1.37
1	N	719	C	C5-C6	-6.06	1.29	1.34
1	N	1248	A	C3'-O3'	6.06	1.50	1.42
1	N	1300	G	N9-C4	6.06	1.42	1.38
1	N	224	U	C4-O4	-6.05	1.18	1.23
1	N	878	A	C6-N1	6.05	1.39	1.35
1	N	922	G	C2-N2	6.05	1.40	1.34
1	N	719	C	C2'-O2'	-6.05	1.33	1.41
1	N	1304	G	C2'-C1'	-6.05	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1356	G	C5-C4	6.05	1.42	1.38
1	N	42	G	P-O5'	-6.05	1.53	1.59
1	N	139	A	C3'-C2'	6.05	1.59	1.52
1	N	294	U	C4'-C3'	-6.05	1.46	1.53
1	N	688	G	C4'-O4'	6.05	1.53	1.45
1	N	861	G	C2-N3	6.05	1.37	1.32
1	N	1047	G	N9-C8	-6.05	1.33	1.37
1	N	269	C	C3'-O3'	6.05	1.50	1.42
1	N	1003	G	C6-N1	6.05	1.43	1.39
1	N	1234	C	C5'-C4'	6.05	1.58	1.51
1	N	1394	A	C4'-C3'	6.05	1.59	1.53
1	N	846	G	C5-C4	6.05	1.42	1.38
1	N	335	C	C4-C5	-6.05	1.38	1.43
1	N	742	G	C5-C4	6.05	1.42	1.38
1	N	404	G	C2-N3	6.04	1.37	1.32
1	N	540	G	N7-C5	-6.04	1.35	1.39
1	N	1018	G	N1-C2	6.04	1.42	1.37
1	N	250	A	C3'-C2'	-6.04	1.46	1.52
1	N	1352	C	C2'-C1'	-6.04	1.46	1.53
1	N	147	G	C5-C6	-6.04	1.36	1.42
1	N	978	A	N7-C5	-6.04	1.35	1.39
1	N	1213	A	N3-C4	-6.04	1.31	1.34
1	N	1349	A	N7-C5	-6.04	1.35	1.39
1	N	430	A	P-O5'	-6.04	1.53	1.59
1	N	457	G	C8-N7	-6.04	1.27	1.30
1	N	832	G	C5'-C4'	6.04	1.58	1.51
1	N	1334	G	N9-C8	6.04	1.42	1.37
1	N	1503	A	C2'-C1'	-6.04	1.46	1.53
1	N	742	G	N1-C2	6.03	1.42	1.37
1	N	1377	A	C4'-O4'	-6.03	1.37	1.45
1	N	310	G	C6-N1	6.03	1.43	1.39
1	N	323	U	C2'-C1'	-6.03	1.46	1.53
1	N	1291	U	C3'-O3'	6.03	1.50	1.42
1	N	1294	G	N1-C2	6.03	1.42	1.37
1	N	1078	U	C4'-C3'	6.03	1.59	1.53
1	N	1136	C	C3'-O3'	6.03	1.50	1.42
1	N	1394	A	N9-C4	-6.03	1.34	1.37
1	N	1439	G	C5-C4	6.03	1.42	1.38
1	N	1376	U	O3'-P	-6.03	1.53	1.61
1	N	122	G	C6-O6	6.03	1.29	1.24
1	N	613	C	C5-C6	6.03	1.39	1.34
1	N	648	A	C5-C6	6.03	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1473	G	N9-C4	-6.03	1.33	1.38
1	N	191	G	C5'-C4'	6.03	1.58	1.51
1	N	854	U	C2-O2	6.03	1.27	1.22
1	N	1211	U	C5'-C4'	6.03	1.58	1.51
1	N	1239	A	N1-C2	-6.03	1.28	1.34
1	N	177	G	C2'-C1'	-6.02	1.46	1.53
1	N	206	C	C1'-N1	6.02	1.57	1.48
1	N	353	A	C2'-C1'	-6.02	1.46	1.53
1	N	571	U	N3-C4	6.02	1.43	1.38
1	N	862	C	C4'-C3'	-6.02	1.46	1.53
1	N	1458	G	N1-C2	6.02	1.42	1.37
1	N	771	G	P-O5'	-6.02	1.53	1.59
1	N	929	G	C5'-C4'	6.02	1.58	1.51
1	N	1225	A	C6-N6	6.02	1.38	1.33
1	N	22	G	N1-C2	6.02	1.42	1.37
1	N	474	G	N9-C4	-6.02	1.33	1.38
1	N	1301	U	C2-N3	6.02	1.42	1.37
1	N	734	G	C6-N1	6.02	1.43	1.39
1	N	379	C	O4'-C1'	6.01	1.49	1.41
1	N	200	G	C5-C4	6.01	1.42	1.38
1	N	641	U	C2-N3	-6.01	1.33	1.37
1	N	647	C	C4-N4	6.01	1.39	1.33
1	N	1217	C	P-O5'	-6.01	1.53	1.59
1	N	1380	U	C3'-C2'	6.01	1.59	1.52
1	N	1531	A	C5-C6	-6.01	1.35	1.41
1	N	25	C	C2'-C1'	-6.01	1.46	1.53
1	N	153	C	C3'-O3'	6.01	1.50	1.42
1	N	894	G	C6-N1	6.00	1.43	1.39
1	N	283	U	C2'-C1'	-6.00	1.46	1.53
1	N	428	G	N1-C2	6.00	1.42	1.37
1	N	486	U	C4-C5	6.00	1.49	1.43
1	N	1323	G	C2'-C1'	-6.00	1.46	1.53
1	N	1421	G	C2'-O2'	6.00	1.49	1.41
1	N	53	A	C6-N6	6.00	1.38	1.33
1	N	127	G	P-O5'	-6.00	1.53	1.59
1	N	254	G	C3'-C2'	6.00	1.59	1.52
1	N	455	G	O3'-P	-6.00	1.53	1.61
1	N	479	U	C2'-C1'	-6.00	1.46	1.53
1	N	784	A	C8-N7	6.00	1.35	1.31
1	N	1523	G	C6-N1	6.00	1.43	1.39
1	N	20	U	P-O5'	-6.00	1.53	1.59
1	N	1330	U	C4'-O4'	6.00	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	592	G	C3'-C2'	-5.99	1.46	1.52
1	N	1493	A	C8-N7	-5.99	1.27	1.31
1	N	875	U	C4'-C3'	5.99	1.59	1.53
1	N	1496	C	C2-N3	5.99	1.40	1.35
1	N	103	U	C4-C5	-5.99	1.38	1.43
1	N	1170	A	C1'-N9	5.99	1.57	1.48
1	N	1224	U	C4'-C3'	5.99	1.59	1.53
1	N	802	A	P-O5'	5.99	1.65	1.59
1	N	613	C	C2'-C1'	-5.99	1.46	1.53
1	N	641	U	N3-C4	5.99	1.43	1.38
1	N	713	G	N1-C2	5.99	1.42	1.37
1	N	1239	A	N7-C5	-5.98	1.35	1.39
1	N	1519	A	C4'-O4'	5.98	1.53	1.45
1	N	858	G	C8-N7	5.98	1.34	1.30
1	N	104	G	C5-C4	-5.98	1.34	1.38
1	N	213	G	N1-C2	5.98	1.42	1.37
1	N	795	C	N1-C6	-5.98	1.33	1.37
1	N	1055	A	C5-C6	-5.98	1.35	1.41
1	N	439	U	N3-C4	5.98	1.43	1.38
1	N	493	A	N1-C2	-5.98	1.28	1.34
1	N	1486	G	N1-C2	5.98	1.42	1.37
1	N	15	G	C6-N1	5.98	1.43	1.39
1	N	515	G	N1-C2	5.98	1.42	1.37
1	N	628	G	C3'-O3'	5.98	1.50	1.42
1	N	942	G	N1-C2	5.98	1.42	1.37
1	N	731	G	N1-C2	5.98	1.42	1.37
1	N	772	U	C2-N3	5.98	1.42	1.37
1	N	1054	C	C2-N3	5.98	1.40	1.35
1	N	49	U	C4'-C3'	5.97	1.59	1.53
1	N	997	U	N3-C4	5.97	1.43	1.38
1	N	1181	G	C4'-C3'	5.97	1.59	1.53
1	N	1192	C	N3-C4	5.97	1.38	1.33
1	N	1137	C	C1'-N1	5.97	1.57	1.48
1	N	1412	C	C2-N3	5.97	1.40	1.35
1	N	727	G	N1-C2	5.97	1.42	1.37
1	N	767	A	N7-C5	5.97	1.42	1.39
1	N	8	A	C6-N1	5.97	1.39	1.35
1	N	83	C	C2-N3	5.97	1.40	1.35
1	N	453	G	N9-C8	5.97	1.42	1.37
1	N	692	U	P-O5'	-5.97	1.53	1.59
1	N	1022	A	N1-C2	5.97	1.39	1.34
1	N	1258	G	C6-N1	5.97	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1173	U	C3'-C2'	-5.97	1.46	1.52
1	N	497	G	C8-N7	-5.97	1.27	1.30
1	N	363	A	O3'-P	-5.96	1.53	1.61
1	N	1221	G	C5'-C4'	5.96	1.58	1.51
1	N	25	C	C4'-O4'	5.96	1.53	1.45
1	N	1405	G	C2'-C1'	-5.96	1.46	1.53
1	N	165	G	C1'-N9	5.96	1.57	1.48
1	N	245	U	C5-C6	-5.96	1.28	1.34
1	N	505	G	C5-C4	-5.96	1.34	1.38
1	N	665	A	C6-N6	5.96	1.38	1.33
1	N	826	C	C3'-O3'	5.96	1.50	1.42
1	N	1065	U	N1-C2	5.96	1.44	1.38
1	N	1190	G	N9-C8	-5.96	1.33	1.37
1	N	588	G	N9-C4	5.96	1.42	1.38
1	N	721	G	C3'-C2'	5.96	1.59	1.52
1	N	998	C	C4-N4	5.96	1.39	1.33
1	N	481	G	C2-N3	5.96	1.37	1.32
1	N	1047	G	C5'-C4'	5.96	1.58	1.51
1	N	1276	G	C4'-O4'	-5.96	1.37	1.45
1	N	1401	G	N1-C2	5.96	1.42	1.37
1	N	359	G	C3'-C2'	-5.96	1.46	1.52
1	N	534	U	N1-C2	5.96	1.44	1.38
1	N	570	G	C3'-C2'	-5.96	1.46	1.52
1	N	1456	A	C3'-C2'	5.96	1.59	1.52
1	N	65	A	N9-C8	-5.96	1.32	1.37
1	N	756	C	N3-C4	5.96	1.38	1.33
1	N	1074	G	N9-C8	-5.96	1.33	1.37
1	N	258	G	N1-C2	5.95	1.42	1.37
1	N	566	G	C5-C4	5.95	1.42	1.38
1	N	1044	A	C2-N3	5.95	1.39	1.33
1	N	544	G	N9-C4	-5.95	1.33	1.38
1	N	1190	G	C6-N1	5.95	1.43	1.39
1	N	434	U	C5-C6	-5.95	1.28	1.34
1	N	641	U	P-O5'	-5.95	1.53	1.59
1	N	272	C	C4-N4	5.95	1.39	1.33
1	N	490	C	O3'-P	-5.95	1.54	1.61
1	N	805	C	N1-C6	5.95	1.40	1.37
1	N	330	C	C4-C5	-5.94	1.38	1.43
1	N	1216	A	C6-N6	5.94	1.38	1.33
1	N	555	U	N1-C2	-5.94	1.33	1.38
1	N	645	G	C4'-C3'	5.94	1.59	1.53
1	N	413	G	N9-C8	-5.94	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	604	G	C2-N3	5.94	1.37	1.32
1	N	873	A	N9-C8	-5.94	1.32	1.37
1	N	1358	U	C3'-O3'	5.94	1.50	1.42
1	N	1426	G	C8-N7	5.94	1.34	1.30
1	N	1428	A	C2-N3	-5.94	1.28	1.33
1	N	1519	A	C3'-C2'	-5.94	1.46	1.52
1	N	100	G	N3-C4	-5.94	1.31	1.35
1	N	1453	G	N3-C4	5.94	1.39	1.35
1	N	116	A	C2-N3	5.94	1.38	1.33
1	N	400	C	C3'-O3'	5.94	1.50	1.42
1	N	1462	C	N3-C4	5.94	1.38	1.33
1	N	251	G	N9-C4	5.93	1.42	1.38
1	N	518	C	C5'-C4'	5.93	1.58	1.51
1	N	724	G	C2'-C1'	-5.93	1.46	1.53
1	N	1106	G	N3-C4	-5.93	1.31	1.35
1	N	1231	G	N9-C4	-5.93	1.33	1.38
1	N	1269	A	C4'-O4'	5.93	1.53	1.45
1	N	1266	G	N1-C2	5.93	1.42	1.37
1	N	242	G	C3'-O3'	5.92	1.50	1.42
1	N	251	G	C2-N3	5.92	1.37	1.32
1	N	1054	C	N1-C6	5.92	1.40	1.37
1	N	1517	G	N9-C4	5.92	1.42	1.38
1	N	1412	C	P-O5'	-5.92	1.53	1.59
1	N	778	G	N1-C2	5.92	1.42	1.37
1	N	1308	U	C5-C6	5.92	1.39	1.34
1	N	8	A	N1-C2	5.92	1.39	1.34
1	N	484	G	N3-C4	5.92	1.39	1.35
1	N	502	A	C5-C4	5.92	1.42	1.38
1	N	675	A	C6-N6	5.92	1.38	1.33
1	N	1012	A	N9-C4	5.92	1.41	1.37
1	N	1217	C	N1-C6	5.92	1.40	1.37
1	N	62	U	P-O5'	-5.92	1.53	1.59
1	N	945	G	N1-C2	5.92	1.42	1.37
1	N	1481	U	C5-C6	5.92	1.39	1.34
1	N	1001	C	C2'-O2'	5.92	1.49	1.41
1	N	1384	C	C2-N3	5.92	1.40	1.35
1	N	840	C	N3-C4	5.91	1.38	1.33
1	N	928	G	N9-C8	5.91	1.42	1.37
1	N	939	G	C2-N3	5.91	1.37	1.32
1	N	1051	C	C2'-O2'	5.91	1.49	1.41
1	N	1144	G	N9-C4	-5.91	1.33	1.38
1	N	1261	A	N3-C4	-5.91	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	73	C	C3'-C2'	5.91	1.59	1.52
1	N	300	A	C3'-O3'	5.91	1.50	1.42
1	N	511	C	C5'-C4'	5.91	1.58	1.51
1	N	346	G	P-O5'	-5.91	1.53	1.59
1	N	350	G	C2-N3	5.91	1.37	1.32
1	N	838	G	C5'-C4'	5.91	1.58	1.51
1	N	953	G	C2-N2	5.91	1.40	1.34
1	N	1410	A	N9-C8	5.91	1.42	1.37
1	N	156	C	C4-C5	5.91	1.47	1.43
1	N	652	U	C2-N3	-5.91	1.33	1.37
1	N	1299	A	C2-N3	-5.91	1.28	1.33
1	N	547	A	O3'-P	-5.91	1.54	1.61
1	N	553	A	N3-C4	5.91	1.38	1.34
1	N	1107	C	N1-C6	5.91	1.40	1.37
1	N	1506	U	O3'-P	-5.91	1.54	1.61
1	N	1138	G	C3'-C2'	5.90	1.59	1.52
1	N	1395	C	C2-O2	5.90	1.29	1.24
1	N	96	U	N1-C2	-5.90	1.33	1.38
1	N	1105	A	C6-N6	5.90	1.38	1.33
1	N	1368	A	C6-N6	5.90	1.38	1.33
1	N	94	G	N3-C4	-5.90	1.31	1.35
1	N	112	G	C2-N3	5.90	1.37	1.32
1	N	1423	G	C2-N3	5.90	1.37	1.32
1	N	67	C	C4'-C3'	5.90	1.59	1.53
1	N	488	C	C5'-C4'	5.90	1.58	1.51
1	N	1260	G	O3'-P	-5.90	1.54	1.61
1	N	254	G	N3-C4	-5.90	1.31	1.35
1	N	285	C	C4-N4	5.89	1.39	1.33
1	N	480	U	C5'-C4'	5.89	1.58	1.51
1	N	631	C	C4'-C3'	5.89	1.59	1.53
1	N	989	U	O4'-C1'	5.89	1.49	1.41
1	N	1058	G	N9-C4	-5.89	1.33	1.38
1	N	1188	A	C6-N1	5.89	1.39	1.35
1	N	1470	U	O4'-C1'	5.89	1.49	1.41
1	N	1523	G	C8-N7	5.89	1.34	1.30
1	N	362	G	N1-C2	5.89	1.42	1.37
1	N	149	A	C4'-O4'	-5.89	1.37	1.45
1	N	501	C	C4'-C3'	-5.89	1.46	1.52
1	N	267	C	C4-C5	5.89	1.47	1.43
1	N	761	G	C8-N7	5.89	1.34	1.30
1	N	1174	G	C2-N3	5.89	1.37	1.32
1	N	149	A	C6-N6	5.89	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	587	G	C2-N2	5.89	1.40	1.34
1	N	1009	U	C1'-N1	5.89	1.57	1.48
1	N	1273	C	C4-N4	5.89	1.39	1.33
1	N	158	G	P-O5'	-5.88	1.53	1.59
1	N	696	A	C4'-C3'	5.88	1.59	1.53
1	N	1198	G	N9-C4	-5.88	1.33	1.38
1	N	511	C	C4-N4	5.88	1.39	1.33
1	N	31	G	N9-C4	5.88	1.42	1.38
1	N	275	G	C2-N2	5.88	1.40	1.34
1	N	105	G	C2'-O2'	-5.88	1.34	1.41
1	N	210	C	C5-C6	5.88	1.39	1.34
1	N	226	G	C6-N1	5.88	1.43	1.39
1	N	939	G	C2'-C1'	-5.88	1.46	1.53
1	N	1101	A	C5'-C4'	5.88	1.58	1.51
1	N	136	C	P-O5'	-5.88	1.53	1.59
1	N	138	G	C5'-C4'	5.88	1.58	1.51
1	N	620	C	C2-O2	5.88	1.29	1.24
1	N	1151	A	C6-N1	5.88	1.39	1.35
1	N	1331	G	C2-N3	5.88	1.37	1.32
1	N	666	G	N9-C4	-5.88	1.33	1.38
1	N	553	A	C6-N1	5.87	1.39	1.35
1	N	791	G	C6-N1	5.87	1.43	1.39
1	N	814	A	C5-C4	5.87	1.42	1.38
1	N	1092	A	O3'-P	-5.87	1.54	1.61
1	N	1105	A	P-O5'	-5.87	1.53	1.59
1	N	533	A	N9-C4	5.87	1.41	1.37
1	N	767	A	N9-C4	-5.87	1.34	1.37
1	N	1203	C	N3-C4	5.87	1.38	1.33
1	N	1288	A	N3-C4	5.87	1.38	1.34
1	N	74	A	N3-C4	-5.87	1.31	1.34
1	N	347	G	C8-N7	-5.87	1.27	1.30
1	N	529	G	N1-C2	5.87	1.42	1.37
1	N	1170	A	N1-C2	5.87	1.39	1.34
1	N	264	C	C5-C6	-5.87	1.29	1.34
1	N	1504	G	C5-C4	5.87	1.42	1.38
1	N	21	G	N1-C2	5.87	1.42	1.37
1	N	307	C	N1-C2	5.87	1.46	1.40
1	N	1320	C	P-O5'	-5.87	1.53	1.59
1	N	164	G	C5'-C4'	5.86	1.58	1.51
1	N	810	C	C3'-O3'	5.86	1.50	1.42
1	N	503	C	N3-C4	5.86	1.38	1.33
1	N	69	G	C3'-O3'	5.86	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	486	U	C2-N3	-5.86	1.33	1.37
1	N	642	A	C4'-C3'	-5.86	1.46	1.52
1	N	870	U	C2'-C1'	-5.86	1.47	1.53
1	N	880	C	P-O5'	-5.86	1.53	1.59
1	N	1099	G	C2-N2	5.86	1.40	1.34
1	N	1199	U	C3'-O3'	5.86	1.50	1.42
1	N	707	U	C2-N3	5.86	1.41	1.37
1	N	897	C	C2'-C1'	-5.86	1.47	1.53
1	N	1290	G	O4'-C1'	5.86	1.49	1.41
1	N	1502	A	C3'-C2'	5.86	1.59	1.52
1	N	367	U	C2'-C1'	-5.86	1.47	1.53
1	N	469	C	C5-C6	-5.86	1.29	1.34
1	N	810	C	N3-C4	5.86	1.38	1.33
1	N	1224	U	C5'-C4'	5.86	1.58	1.51
1	N	60	A	C6-N1	5.86	1.39	1.35
1	N	83	C	C4'-O4'	5.86	1.53	1.45
1	N	384	G	N7-C5	-5.86	1.35	1.39
1	N	427	U	C4-O4	-5.86	1.19	1.23
1	N	1305	G	P-O5'	5.86	1.65	1.59
1	N	1388	C	N3-C4	5.86	1.38	1.33
1	N	1392	G	N3-C4	-5.86	1.31	1.35
1	N	258	G	C6-O6	5.85	1.29	1.24
1	N	723	U	O4'-C1'	5.85	1.49	1.41
1	N	1253	G	C2-N3	5.85	1.37	1.32
1	N	66	A	N9-C8	5.85	1.42	1.37
1	N	141	G	C5-C6	-5.85	1.36	1.42
1	N	318	G	C5-C4	-5.85	1.34	1.38
1	N	343	U	O3'-P	-5.85	1.54	1.61
1	N	351	G	O4'-C1'	-5.85	1.34	1.41
1	N	1196	A	C8-N7	-5.85	1.27	1.31
1	N	690	G	C2'-O2'	5.85	1.49	1.41
1	N	745	G	C2-N3	5.85	1.37	1.32
1	N	841	C	C4-N4	5.85	1.39	1.33
1	N	1095	U	N1-C2	-5.85	1.33	1.38
1	N	1197	A	N9-C8	5.85	1.42	1.37
1	N	303	A	C6-N6	5.85	1.38	1.33
1	N	442	G	C5-C6	-5.85	1.36	1.42
1	N	1289	A	C5-C4	5.85	1.42	1.38
1	N	1446	A	C8-N7	5.85	1.35	1.31
1	N	170	U	C4-C5	5.84	1.48	1.43
1	N	853	C	N3-C4	5.84	1.38	1.33
1	N	887	G	N1-C2	5.84	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	498	A	N9-C4	-5.84	1.34	1.37
1	N	720	C	C2'-C1'	-5.84	1.47	1.53
1	N	787	A	N9-C8	5.84	1.42	1.37
1	N	123	U	C2'-C1'	-5.84	1.47	1.53
1	N	720	C	N1-C6	5.84	1.40	1.37
1	N	641	U	C3'-C2'	5.84	1.59	1.52
1	N	663	A	N9-C8	-5.84	1.33	1.37
1	N	1177	G	C2'-C1'	-5.84	1.47	1.53
1	N	1496	C	P-O5'	-5.84	1.53	1.59
1	N	1092	A	C6-N6	5.84	1.38	1.33
1	N	681	A	N9-C8	-5.84	1.33	1.37
1	N	955	U	N1-C2	5.84	1.43	1.38
1	N	64	G	N7-C5	5.83	1.42	1.39
1	N	237	G	N9-C8	-5.83	1.33	1.37
1	N	819	A	C6-N6	5.83	1.38	1.33
1	N	304	U	C4'-C3'	5.83	1.59	1.53
1	N	927	G	C8-N7	-5.83	1.27	1.30
1	N	722	G	N3-C4	-5.83	1.31	1.35
1	N	761	G	N1-C2	5.83	1.42	1.37
1	N	756	C	O3'-P	-5.83	1.54	1.61
1	N	99	C	C2'-C1'	-5.83	1.47	1.53
1	N	117	G	C2-N2	5.83	1.40	1.34
1	N	216	U	C4'-C3'	5.83	1.59	1.53
1	N	1014	A	C8-N7	5.83	1.35	1.31
1	N	419	C	N3-C4	5.82	1.38	1.33
1	N	474	G	C6-N1	5.82	1.43	1.39
1	N	650	G	C5-C4	5.82	1.42	1.38
1	N	691	G	N3-C4	5.82	1.39	1.35
1	N	780	A	N9-C8	5.82	1.42	1.37
1	N	1434	A	N3-C4	-5.82	1.31	1.34
1	N	1503	A	O3'-P	-5.82	1.54	1.61
1	N	92	U	C2-N3	5.82	1.41	1.37
1	N	1343	G	N1-C2	5.82	1.42	1.37
1	N	517	G	C8-N7	5.82	1.34	1.30
1	N	706	A	O3'-P	-5.82	1.54	1.61
1	N	909	A	C6-N6	5.82	1.38	1.33
1	N	1049	U	C2-N3	5.82	1.41	1.37
1	N	456	A	C6-N1	5.81	1.39	1.35
1	N	591	U	C4-O4	5.81	1.28	1.23
1	N	101	A	C2-N3	5.81	1.38	1.33
1	N	695	A	O3'-P	-5.81	1.54	1.61
1	N	806	C	C4-N4	5.81	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	652	U	C3'-C2'	5.81	1.59	1.52
1	N	1262	C	C4'-C3'	5.81	1.59	1.53
1	N	124	C	N1-C6	5.81	1.40	1.37
1	N	449	G	N9-C4	5.81	1.42	1.38
1	N	1300	G	C2-N3	5.81	1.37	1.32
1	N	52	C	C2-O2	5.81	1.29	1.24
1	N	274	A	C4'-C3'	5.81	1.59	1.53
1	N	1184	G	C2-N3	5.81	1.37	1.32
1	N	315	A	C8-N7	-5.81	1.27	1.31
1	N	392	C	C5'-C4'	5.81	1.58	1.51
1	N	1046	A	C2'-C1'	-5.81	1.47	1.53
1	N	143	A	C6-N1	5.80	1.39	1.35
1	N	897	C	C4-N4	5.80	1.39	1.33
1	N	230	G	C4'-C3'	5.80	1.59	1.53
1	N	384	G	C2-N3	5.80	1.37	1.32
1	N	580	C	C1'-N1	5.80	1.57	1.48
1	N	495	A	N1-C2	5.80	1.39	1.34
1	N	903	G	C3'-O3'	-5.80	1.34	1.42
1	N	1196	A	N9-C8	-5.80	1.33	1.37
1	N	516	U	C1'-N1	5.80	1.57	1.48
1	N	599	C	C2'-C1'	-5.80	1.47	1.53
1	N	654	G	C6-N1	5.80	1.43	1.39
1	N	1088	G	C2-N3	5.80	1.37	1.32
1	N	1210	C	N3-C4	5.80	1.38	1.33
1	N	1231	G	N1-C2	5.80	1.42	1.37
1	N	569	C	C3'-O3'	5.80	1.50	1.42
1	N	602	A	C2-N3	5.80	1.38	1.33
1	N	682	G	N9-C4	-5.80	1.33	1.38
1	N	759	A	C5'-C4'	5.80	1.58	1.51
1	N	1284	C	C2'-C1'	-5.80	1.47	1.53
1	N	364	A	N9-C4	-5.80	1.34	1.37
1	N	1441	A	C2'-C1'	-5.80	1.47	1.53
1	N	187	G	N1-C2	5.79	1.42	1.37
1	N	60	A	C8-N7	-5.79	1.27	1.31
1	N	229	U	P-O5'	-5.79	1.53	1.59
1	N	536	C	C5-C6	-5.79	1.29	1.34
1	N	608	A	C5-C6	-5.79	1.35	1.41
1	N	1114	C	C5'-C4'	5.79	1.58	1.51
1	N	1201	A	C5-C6	-5.79	1.35	1.41
1	N	1290	G	C5'-C4'	5.79	1.58	1.51
1	N	861	G	C2'-C1'	-5.79	1.47	1.53
1	N	1035	A	O3'-P	-5.79	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	955	U	C2'-C1'	-5.79	1.47	1.53
1	N	573	A	C5'-C4'	5.79	1.58	1.51
1	N	1005	A	O4'-C1'	5.79	1.49	1.41
1	N	449	G	C2-N3	5.79	1.37	1.32
1	N	81	A	C2'-C1'	-5.78	1.47	1.53
1	N	1375	A	C4'-O4'	5.78	1.53	1.45
1	N	1526	G	C8-N7	-5.78	1.27	1.30
1	N	425	G	N1-C2	5.78	1.42	1.37
1	N	241	G	P-O5'	-5.78	1.53	1.59
1	N	812	G	N9-C8	5.78	1.41	1.37
1	N	1334	G	C8-N7	-5.78	1.27	1.30
1	N	57	G	C4'-C3'	5.78	1.59	1.53
1	N	341	C	C4'-O4'	5.78	1.53	1.45
1	N	611	C	O3'-P	-5.78	1.54	1.61
1	N	945	G	C5-C6	-5.78	1.36	1.42
1	N	147	G	C8-N7	5.78	1.34	1.30
1	N	786	G	N7-C5	-5.78	1.35	1.39
1	N	1505	G	C5-C4	5.78	1.42	1.38
1	N	152	A	C6-N6	5.77	1.38	1.33
1	N	275	G	N1-C2	5.77	1.42	1.37
1	N	691	G	C8-N7	-5.77	1.27	1.30
1	N	1330	U	C4-C5	-5.77	1.38	1.43
1	N	175	C	C5'-C4'	5.77	1.58	1.51
1	N	409	U	N3-C4	5.77	1.43	1.38
1	N	734	G	C8-N7	-5.77	1.27	1.30
1	N	1181	G	C5-C4	5.77	1.42	1.38
1	N	1302	C	N3-C4	5.77	1.38	1.33
1	N	1533	C	C3'-C2'	5.77	1.59	1.52
1	N	128	G	C6-N1	5.77	1.43	1.39
1	N	429	U	O4'-C1'	5.77	1.49	1.41
1	N	993	G	C2-N3	5.77	1.37	1.32
1	N	195	A	N9-C8	5.77	1.42	1.37
1	N	899	C	P-O5'	-5.77	1.53	1.59
1	N	86	G	P-O5'	-5.77	1.53	1.59
1	N	353	A	N9-C8	-5.77	1.33	1.37
1	N	654	G	O4'-C1'	5.76	1.49	1.41
1	N	661	G	N7-C5	-5.76	1.35	1.39
1	N	872	A	O3'-P	-5.76	1.54	1.61
1	N	1049	U	C5-C6	-5.76	1.28	1.34
1	N	1182	G	N9-C8	5.76	1.41	1.37
1	N	1245	C	C4'-O4'	5.76	1.53	1.45
1	N	1382	C	C5'-C4'	5.76	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1385	G	C2-N2	5.76	1.40	1.34
1	N	151	A	C5'-C4'	5.76	1.58	1.51
1	N	1322	C	C2-N3	5.76	1.40	1.35
1	N	159	G	N1-C2	5.76	1.42	1.37
1	N	719	C	P-O5'	-5.76	1.53	1.59
1	N	1057	G	C2-N2	5.76	1.40	1.34
1	N	1139	G	C5-C6	-5.76	1.36	1.42
1	N	1372	U	C5-C6	5.76	1.39	1.34
1	N	432	A	N7-C5	-5.76	1.35	1.39
1	N	758	C	C5'-C4'	5.76	1.58	1.51
1	N	1279	G	N9-C8	-5.76	1.33	1.37
1	N	1387	G	C5'-C4'	5.76	1.58	1.51
1	N	376	G	C5-C4	5.76	1.42	1.38
1	N	1255	G	N9-C4	-5.76	1.33	1.38
1	N	191	G	C3'-C2'	-5.76	1.46	1.52
1	N	211	G	C6-N1	5.76	1.43	1.39
1	N	1410	A	C2-N3	5.76	1.38	1.33
1	N	1289	A	C3'-C2'	5.75	1.59	1.52
1	N	200	G	C4'-C3'	5.75	1.59	1.53
1	N	233	C	C4'-O4'	5.75	1.53	1.45
1	N	565	U	C4'-O4'	5.75	1.53	1.45
1	N	702	A	C6-N6	5.75	1.38	1.33
1	N	179	A	C5-C6	-5.75	1.35	1.41
1	N	732	C	C5'-C4'	5.75	1.58	1.51
1	N	871	U	N3-C4	5.75	1.43	1.38
1	N	1148	U	N1-C6	5.75	1.43	1.38
1	N	1390	U	C4'-C3'	-5.75	1.46	1.52
1	N	340	U	N3-C4	5.75	1.43	1.38
1	N	345	C	C4'-C3'	5.75	1.59	1.53
1	N	13	U	N3-C4	5.75	1.43	1.38
1	N	337	G	N9-C8	5.75	1.41	1.37
1	N	677	U	C5-C6	5.75	1.39	1.34
1	N	1094	G	N9-C4	5.75	1.42	1.38
1	N	1247	U	P-O5'	-5.75	1.54	1.59
1	N	1437	A	C4'-C3'	5.75	1.59	1.53
1	N	12	U	O5'-C5'	5.75	1.53	1.44
1	N	366	A	N9-C4	-5.75	1.34	1.37
1	N	463	U	P-O5'	-5.75	1.54	1.59
1	N	1076	U	C2-N3	5.75	1.41	1.37
1	N	32	A	C6-N1	5.74	1.39	1.35
1	N	360	G	N1-C2	5.74	1.42	1.37
1	N	824	G	N7-C5	5.74	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1006	G	C5-C4	-5.74	1.34	1.38
1	N	1145	A	C6-N1	5.74	1.39	1.35
1	N	1187	G	P-O5'	-5.74	1.54	1.59
1	N	1423	G	O3'-P	-5.74	1.54	1.61
1	N	13	U	C4-C5	5.74	1.48	1.43
1	N	942	G	N3-C4	5.74	1.39	1.35
1	N	957	U	C4-O4	5.74	1.28	1.23
1	N	1297	G	C2'-C1'	-5.74	1.47	1.53
1	N	21	G	C8-N7	-5.74	1.27	1.30
1	N	957	U	N1-C6	-5.74	1.32	1.38
1	N	1243	C	C4-N4	5.74	1.39	1.33
1	N	1466	C	C4'-C3'	5.74	1.59	1.53
1	N	185	U	C2-O2	5.74	1.27	1.22
1	N	971	G	C5-C4	5.74	1.42	1.38
1	N	1086	U	N1-C2	5.74	1.43	1.38
1	N	1251	A	C6-N1	5.74	1.39	1.35
1	N	27	G	N1-C2	5.73	1.42	1.37
1	N	111	G	N9-C8	-5.73	1.33	1.37
1	N	565	U	N1-C6	5.73	1.43	1.38
1	N	294	U	C2-N3	5.73	1.41	1.37
1	N	786	G	N3-C4	5.73	1.39	1.35
1	N	890	G	O3'-P	-5.73	1.54	1.61
1	N	1007	U	N1-C6	-5.73	1.32	1.38
1	N	1179	A	N9-C4	5.73	1.41	1.37
1	N	1285	A	N9-C8	-5.73	1.33	1.37
1	N	1287	A	P-O5'	5.73	1.65	1.59
1	N	1342	C	C2-N3	5.73	1.40	1.35
1	N	988	G	C5'-C4'	5.73	1.58	1.51
1	N	1130	A	C5-C6	5.73	1.46	1.41
1	N	1285	A	C5-C6	-5.73	1.35	1.41
1	N	321	A	O4'-C1'	-5.73	1.34	1.41
1	N	933	G	N9-C4	-5.73	1.33	1.38
1	N	1254	A	N7-C5	5.73	1.42	1.39
1	N	1335	U	C2-N3	5.73	1.41	1.37
1	N	244	U	N1-C6	-5.73	1.32	1.38
1	N	957	U	C4-C5	5.73	1.48	1.43
1	N	563	A	C2-N3	5.72	1.38	1.33
1	N	747	A	C6-N6	5.72	1.38	1.33
1	N	924	C	N3-C4	5.72	1.38	1.33
1	N	168	G	C2-N3	5.72	1.37	1.32
1	N	186	C	C5-C6	5.72	1.39	1.34
1	N	759	A	C3'-O3'	5.72	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1144	G	O3'-P	-5.72	1.54	1.61
1	N	1417	G	N1-C2	5.72	1.42	1.37
1	N	332	G	P-O5'	-5.72	1.54	1.59
1	N	590	U	O3'-P	-5.72	1.54	1.61
1	N	891	U	C4'-C3'	-5.72	1.46	1.52
1	N	566	G	C2'-C1'	-5.72	1.47	1.53
1	N	699	C	N1-C6	5.72	1.40	1.37
1	N	401	C	C2-N3	-5.71	1.31	1.35
1	N	12	U	P-O5'	5.71	1.65	1.59
1	N	113	G	P-O5'	-5.71	1.54	1.59
1	N	612	C	C2'-C1'	-5.71	1.47	1.53
1	N	685	G	C2-N2	5.71	1.40	1.34
1	N	1086	U	C2-N3	5.71	1.41	1.37
1	N	1259	C	C5-C6	-5.71	1.29	1.34
1	N	1413	A	N9-C8	5.71	1.42	1.37
1	N	1420	U	C3'-C2'	5.71	1.59	1.52
1	N	471	U	N1-C6	5.71	1.43	1.38
1	N	784	A	C6-N6	5.71	1.38	1.33
1	N	868	C	N3-C4	5.71	1.38	1.33
1	N	1492	A	C6-N1	5.71	1.39	1.35
1	N	1499	A	C5'-C4'	5.71	1.58	1.51
1	N	1502	A	N9-C4	5.71	1.41	1.37
1	N	403	C	C2-O2	5.71	1.29	1.24
1	N	732	C	N1-C6	5.71	1.40	1.37
1	N	289	G	C5-C4	5.71	1.42	1.38
1	N	516	U	C2-N3	5.71	1.41	1.37
1	N	741	G	N1-C2	5.71	1.42	1.37
1	N	1197	A	C2'-C1'	-5.71	1.47	1.53
1	N	272	C	N3-C4	5.70	1.38	1.33
1	N	1213	A	C8-N7	-5.70	1.27	1.31
1	N	1288	A	N9-C8	-5.70	1.33	1.37
1	N	303	A	C6-N1	5.70	1.39	1.35
1	N	593	U	N3-C4	5.70	1.43	1.38
1	N	703	G	O3'-P	-5.70	1.54	1.61
1	N	878	A	N3-C4	-5.70	1.31	1.34
1	N	147	G	C2-N2	5.70	1.40	1.34
1	N	246	A	C8-N7	-5.70	1.27	1.31
1	N	312	C	N1-C2	-5.70	1.34	1.40
1	N	319	G	N3-C4	-5.70	1.31	1.35
1	N	741	G	C5-C4	-5.70	1.34	1.38
1	N	1034	G	C2-N3	5.70	1.37	1.32
1	N	1371	G	C2'-C1'	-5.70	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	325	A	N1-C2	-5.70	1.29	1.34
1	N	487	A	C6-N6	5.70	1.38	1.33
1	N	1143	G	C3'-O3'	5.70	1.50	1.42
1	N	1250	A	O3'-P	-5.70	1.54	1.61
1	N	956	U	C5'-C4'	5.70	1.58	1.51
1	N	1065	U	N3-C4	5.70	1.43	1.38
1	N	602	A	N3-C4	-5.70	1.31	1.34
1	N	631	C	O4'-C1'	-5.70	1.34	1.41
1	N	1198	G	N1-C2	5.70	1.42	1.37
1	N	1306	A	N9-C8	5.70	1.42	1.37
1	N	176	C	N3-C4	5.69	1.38	1.33
1	N	489	C	N3-C4	5.69	1.38	1.33
1	N	1456	A	C4'-C3'	-5.69	1.46	1.52
1	N	506	G	C5-C4	-5.69	1.34	1.38
1	N	1381	U	C5'-C4'	5.69	1.58	1.51
1	N	1453	G	C2-N3	5.69	1.37	1.32
1	N	1216	A	C2-N3	5.69	1.38	1.33
1	N	1335	U	C4-C5	5.69	1.48	1.43
1	N	1446	A	N3-C4	5.69	1.38	1.34
1	N	122	G	C5'-C4'	5.69	1.58	1.51
1	N	112	G	N7-C5	5.69	1.42	1.39
1	N	542	G	C6-N1	5.69	1.43	1.39
1	N	842	U	P-O5'	-5.69	1.54	1.59
1	N	1120	C	C4-N4	5.69	1.39	1.33
1	N	71	A	C6-N6	-5.68	1.29	1.33
1	N	88	U	N1-C2	5.68	1.43	1.38
1	N	112	G	N9-C8	5.68	1.41	1.37
1	N	245	U	C2-O2	5.68	1.27	1.22
1	N	711	G	N7-C5	-5.68	1.35	1.39
1	N	1305	G	N7-C5	-5.68	1.35	1.39
1	N	443	C	N1-C6	5.68	1.40	1.37
1	N	604	G	O5'-C5'	5.68	1.53	1.44
1	N	947	G	O3'-P	-5.68	1.54	1.61
1	N	1181	G	N9-C4	-5.68	1.33	1.38
1	N	201	G	P-O5'	-5.68	1.54	1.59
1	N	309	A	C3'-O3'	5.68	1.50	1.42
1	N	741	G	N3-C4	5.68	1.39	1.35
1	N	842	U	C5-C6	5.68	1.39	1.34
1	N	992	U	P-O5'	5.68	1.65	1.59
1	N	1144	G	C5'-C4'	5.68	1.58	1.51
1	N	1357	A	C5'-C4'	5.68	1.58	1.51
1	N	414	A	C4'-C3'	5.68	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1438	G	C8-N7	5.68	1.34	1.30
1	N	300	A	N9-C4	5.68	1.41	1.37
1	N	338	A	N3-C4	-5.68	1.31	1.34
1	N	874	G	N9-C8	5.68	1.41	1.37
1	N	247	G	C2-N2	5.67	1.40	1.34
1	N	369	G	N3-C4	-5.67	1.31	1.35
1	N	406	G	C2'-C1'	-5.67	1.47	1.53
1	N	734	G	O4'-C1'	-5.67	1.34	1.41
1	N	1134	G	C5-C4	5.67	1.42	1.38
1	N	1158	C	P-O5'	-5.67	1.54	1.59
1	N	1342	C	C4-N4	5.67	1.39	1.33
1	N	1253	G	P-O5'	-5.67	1.54	1.59
1	N	1478	U	C5'-C4'	5.67	1.58	1.51
1	N	171	A	C6-N6	5.67	1.38	1.33
1	N	399	G	N7-C5	-5.67	1.35	1.39
1	N	1021	A	C8-N7	-5.67	1.27	1.31
1	N	825	A	C5'-C4'	5.67	1.58	1.51
1	N	844	G	C5-C4	5.67	1.42	1.38
1	N	977	A	C8-N7	5.67	1.35	1.31
1	N	1476	A	C5'-C4'	5.67	1.58	1.51
1	N	484	G	C5-C6	-5.67	1.36	1.42
1	N	881	G	N1-C2	5.67	1.42	1.37
1	N	1195	C	C5-C6	-5.67	1.29	1.34
1	N	1252	A	P-O5'	5.67	1.65	1.59
1	N	1280	A	N3-C4	5.67	1.38	1.34
1	N	231	U	P-O5'	-5.67	1.54	1.59
1	N	689	C	N3-C4	5.67	1.38	1.33
1	N	735	C	N1-C6	5.67	1.40	1.37
1	N	1312	G	C2-N3	5.67	1.37	1.32
1	N	247	G	C4'-C3'	-5.66	1.46	1.52
1	N	807	A	C1'-N9	5.66	1.57	1.48
1	N	114	U	N3-C4	5.66	1.43	1.38
1	N	980	C	C5'-C4'	5.66	1.58	1.51
1	N	285	C	C2'-C1'	-5.66	1.47	1.53
1	N	342	C	C1'-N1	5.66	1.57	1.48
1	N	1341	U	N1-C6	-5.66	1.32	1.38
1	N	1347	G	C3'-C2'	5.66	1.59	1.52
1	N	1405	G	N7-C5	5.66	1.42	1.39
1	N	152	A	C8-N7	5.66	1.35	1.31
1	N	1261	A	N9-C8	-5.66	1.33	1.37
1	N	1529	G	N1-C2	5.66	1.42	1.37
1	N	706	A	C5-C4	5.66	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	739	C	C4'-O4'	5.66	1.52	1.45
1	N	1456	A	N1-C2	5.66	1.39	1.34
1	N	694	A	C5-C4	-5.66	1.34	1.38
1	N	770	C	N3-C4	5.66	1.38	1.33
1	N	1401	G	C2-N2	5.66	1.40	1.34
1	N	1459	G	C2-N2	5.66	1.40	1.34
1	N	36	C	C2-N3	5.65	1.40	1.35
1	N	272	C	C1'-N1	5.65	1.57	1.48
1	N	1133	G	P-O5'	-5.65	1.54	1.59
1	N	1300	G	C5-C6	-5.65	1.36	1.42
1	N	27	G	C2-N2	5.65	1.40	1.34
1	N	712	A	P-O5'	-5.65	1.54	1.59
1	N	1276	G	N1-C2	5.65	1.42	1.37
1	N	198	G	C5-C6	-5.65	1.36	1.42
1	N	360	G	C2-N3	5.65	1.37	1.32
1	N	1060	U	N1-C6	5.65	1.43	1.38
1	N	1366	C	O3'-P	-5.65	1.54	1.61
1	N	1160	G	C2-N2	5.65	1.40	1.34
1	N	278	G	N1-C2	5.65	1.42	1.37
1	N	1403	C	N1-C6	-5.64	1.33	1.37
1	N	160	A	C6-N6	5.64	1.38	1.33
1	N	554	A	N7-C5	-5.64	1.35	1.39
1	N	1194	U	C4'-C3'	-5.64	1.47	1.52
1	N	663	A	C3'-C2'	5.64	1.59	1.52
1	N	359	G	N9-C4	-5.64	1.33	1.38
1	N	370	C	N1-C6	5.64	1.40	1.37
1	N	633	G	C4'-O4'	5.64	1.52	1.45
1	N	1159	U	N1-C6	-5.64	1.32	1.38
1	N	1306	A	N3-C4	-5.64	1.31	1.34
1	N	596	A	C2'-C1'	-5.64	1.47	1.53
1	N	600	A	C2-N3	5.64	1.38	1.33
1	N	677	U	C2-N3	5.64	1.41	1.37
1	N	1030	U	O3'-P	-5.64	1.54	1.61
1	N	31	G	C2-N2	5.63	1.40	1.34
1	N	305	G	N7-C5	-5.63	1.35	1.39
1	N	295	C	C4'-C3'	-5.63	1.47	1.52
1	N	310	G	C5-C4	5.63	1.42	1.38
1	N	122	G	N9-C4	5.63	1.42	1.38
1	N	342	C	C4-N4	5.63	1.39	1.33
1	N	582	C	C3'-O3'	5.63	1.50	1.42
1	N	282	A	P-O5'	-5.63	1.54	1.59
1	N	498	A	P-O5'	-5.63	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	840	C	C5'-C4'	5.63	1.58	1.51
1	N	869	G	N7-C5	-5.63	1.35	1.39
1	N	1168	U	C4-O4	5.63	1.28	1.23
1	N	1250	A	N3-C4	-5.63	1.31	1.34
1	N	1258	G	N1-C2	5.63	1.42	1.37
1	N	3	A	C6-N6	5.63	1.38	1.33
1	N	302	G	P-O5'	-5.63	1.54	1.59
1	N	945	G	C2-N3	5.63	1.37	1.32
1	N	952	U	C3'-O3'	5.63	1.50	1.42
1	N	1085	U	C5'-C4'	5.63	1.58	1.51
1	N	1334	G	N7-C5	5.63	1.42	1.39
1	N	1374	A	C2'-C1'	-5.63	1.47	1.53
1	N	1375	A	N9-C4	5.63	1.41	1.37
1	N	1120	C	C2-O2	-5.62	1.19	1.24
1	N	105	G	C2-N3	-5.62	1.28	1.32
1	N	709	U	C2'-C1'	5.62	1.59	1.53
1	N	872	A	C5-C6	-5.62	1.35	1.41
1	N	1507	A	C3'-C2'	5.62	1.59	1.52
1	N	555	U	C5-C6	-5.62	1.29	1.34
1	N	242	G	C5-C4	5.62	1.42	1.38
1	N	683	G	C8-N7	5.62	1.34	1.30
1	N	1368	A	C6-N1	5.62	1.39	1.35
1	N	1373	G	N9-C4	-5.62	1.33	1.38
1	N	144	G	N9-C8	5.62	1.41	1.37
1	N	240	G	N3-C4	-5.62	1.31	1.35
1	N	464	U	C2-N3	5.62	1.41	1.37
1	N	651	C	C3'-C2'	5.62	1.59	1.52
1	N	1525	G	C5-C4	-5.62	1.34	1.38
1	N	260	G	N1-C2	5.62	1.42	1.37
1	N	736	C	C3'-C2'	-5.62	1.46	1.52
1	N	831	A	C5'-C4'	5.62	1.58	1.51
1	N	924	C	O5'-C5'	-5.62	1.33	1.42
1	N	1078	U	C4-C5	5.62	1.48	1.43
1	N	1201	A	O3'-P	-5.62	1.54	1.61
1	N	1488	G	C5-C6	-5.62	1.36	1.42
1	N	296	U	C3'-O3'	5.61	1.50	1.42
1	N	739	C	C1'-N1	5.61	1.57	1.48
1	N	1255	G	N1-C2	5.61	1.42	1.37
1	N	444	G	C2-N2	5.61	1.40	1.34
1	N	1284	C	C5-C6	-5.61	1.29	1.34
1	N	1067	A	O4'-C1'	5.61	1.49	1.41
1	N	1186	G	C4'-C3'	5.61	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1470	U	C5'-C4'	5.61	1.58	1.51
1	N	834	U	C2'-C1'	-5.61	1.47	1.53
1	N	46	G	C3'-C2'	-5.61	1.46	1.52
1	N	841	C	C5'-C4'	5.61	1.58	1.51
1	N	957	U	O4'-C1'	-5.61	1.34	1.41
1	N	1333	A	N9-C8	5.61	1.42	1.37
1	N	169	C	N3-C4	5.61	1.37	1.33
1	N	329	A	C5'-C4'	5.61	1.58	1.51
1	N	920	U	P-O5'	-5.61	1.54	1.59
1	N	977	A	O4'-C1'	-5.61	1.34	1.41
1	N	1128	C	C5'-C4'	5.61	1.58	1.51
1	N	177	G	C2-N2	5.60	1.40	1.34
1	N	1386	G	O3'-P	-5.60	1.54	1.61
1	N	256	U	C2'-C1'	5.60	1.59	1.53
1	N	889	A	C8-N7	-5.60	1.27	1.31
1	N	1392	G	O4'-C1'	5.60	1.49	1.41
1	N	430	A	N7-C5	-5.60	1.35	1.39
1	N	690	G	C5'-C4'	5.60	1.58	1.51
1	N	773	G	C1'-N9	5.60	1.57	1.48
1	N	1170	A	N3-C4	5.60	1.38	1.34
1	N	1337	G	O3'-P	-5.60	1.54	1.61
1	N	482	A	C6-N6	5.59	1.38	1.33
1	N	559	A	C4'-C3'	5.59	1.59	1.53
1	N	599	C	P-O5'	-5.59	1.54	1.59
1	N	705	G	C2-N3	5.59	1.37	1.32
1	N	1191	A	N9-C4	5.59	1.41	1.37
1	N	1273	C	O3'-P	-5.59	1.54	1.61
1	N	1274	A	C3'-O3'	5.59	1.50	1.42
1	N	180	U	C4'-O4'	-5.59	1.38	1.45
1	N	223	A	N3-C4	-5.59	1.31	1.34
1	N	282	A	C8-N7	-5.59	1.27	1.31
1	N	1096	C	P-O5'	-5.59	1.54	1.59
1	N	151	A	C2'-C1'	-5.59	1.47	1.53
1	N	552	U	C2-O2	5.59	1.27	1.22
1	N	895	G	N3-C4	-5.59	1.31	1.35
1	N	1330	U	N1-C6	5.59	1.43	1.38
1	N	32	A	N1-C2	5.59	1.39	1.34
1	N	83	C	C4-C5	5.59	1.47	1.43
1	N	568	G	C6-N1	5.59	1.43	1.39
1	N	991	U	N1-C2	-5.59	1.33	1.38
1	N	1230	C	N3-C4	5.59	1.37	1.33
1	N	1436	U	N3-C4	-5.59	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1468	A	N9-C8	-5.59	1.33	1.37
1	N	389	A	N3-C4	-5.59	1.31	1.34
1	N	877	G	C2-N2	5.59	1.40	1.34
1	N	1532	U	N3-C4	5.59	1.43	1.38
1	N	274	A	N9-C8	-5.59	1.33	1.37
1	N	362	G	C2-N2	-5.58	1.28	1.34
1	N	548	G	N7-C5	-5.58	1.35	1.39
1	N	943	U	C2'-C1'	-5.58	1.47	1.53
1	N	1475	G	C5'-C4'	5.58	1.58	1.51
1	N	45	G	N9-C4	-5.58	1.33	1.38
1	N	496	A	C2'-C1'	5.58	1.59	1.53
1	N	777	A	O4'-C1'	5.58	1.49	1.41
1	N	788	U	C4-O4	5.58	1.28	1.23
1	N	1498	U	C4-C5	5.58	1.48	1.43
1	N	668	G	N9-C4	-5.58	1.33	1.38
1	N	748	G	N1-C2	5.58	1.42	1.37
1	N	911	U	N3-C4	5.58	1.43	1.38
1	N	963	G	C4'-C3'	5.58	1.59	1.53
1	N	1045	C	C4-N4	5.58	1.39	1.33
1	N	1134	G	N1-C2	5.58	1.42	1.37
1	N	891	U	P-O5'	-5.58	1.54	1.59
1	N	574	A	C5'-C4'	5.57	1.58	1.51
1	N	586	C	C4-N4	5.57	1.39	1.33
1	N	44	A	C6-N1	5.57	1.39	1.35
1	N	922	G	C6-N1	5.57	1.43	1.39
1	N	558	G	C5'-C4'	5.57	1.58	1.51
1	N	907	A	P-O5'	-5.57	1.54	1.59
1	N	931	C	C2'-C1'	-5.57	1.47	1.53
1	N	946	A	C8-N7	-5.57	1.27	1.31
1	N	1136	C	N3-C4	5.57	1.37	1.33
1	N	1262	C	P-O5'	-5.57	1.54	1.59
1	N	1379	G	N9-C8	5.57	1.41	1.37
1	N	82	G	C8-N7	5.57	1.34	1.30
1	N	84	U	N3-C4	5.57	1.43	1.38
1	N	559	A	P-O5'	-5.57	1.54	1.59
1	N	815	A	C2-N3	5.57	1.38	1.33
1	N	1036	A	C5'-C4'	5.57	1.58	1.51
1	N	243	A	C4'-C3'	5.57	1.59	1.53
1	N	296	U	C5-C6	5.57	1.39	1.34
1	N	89	U	O3'-P	-5.56	1.54	1.61
1	N	526	C	P-O5'	-5.56	1.54	1.59
1	N	830	G	C4'-O4'	5.56	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1285	A	C2'-C1'	-5.56	1.47	1.53
1	N	1160	G	C4'-C3'	5.56	1.59	1.53
1	N	103	U	C5'-C4'	5.56	1.58	1.51
1	N	563	A	C2'-C1'	-5.56	1.47	1.53
1	N	955	U	O4'-C1'	5.56	1.48	1.41
1	N	575	G	O3'-P	-5.56	1.54	1.61
1	N	1060	U	C5'-C4'	5.56	1.58	1.51
1	N	613	C	C2-O2	5.55	1.29	1.24
1	N	733	G	N1-C2	5.55	1.42	1.37
1	N	887	G	N9-C4	-5.55	1.33	1.38
1	N	1278	G	N1-C2	5.55	1.42	1.37
1	N	87	C	C4-C5	5.55	1.47	1.43
1	N	201	G	N9-C4	-5.55	1.33	1.38
1	N	286	C	N3-C4	5.55	1.37	1.33
1	N	940	C	C4-C5	5.55	1.47	1.43
1	N	1098	C	N1-C2	5.55	1.45	1.40
1	N	1239	A	C6-N6	5.55	1.38	1.33
1	N	1393	U	C2-O2	5.55	1.27	1.22
1	N	1406	U	C4-C5	-5.55	1.38	1.43
1	N	219	U	C4-C5	5.55	1.48	1.43
1	N	336	A	N7-C5	5.55	1.42	1.39
1	N	564	C	N3-C4	5.55	1.37	1.33
1	N	1049	U	N1-C2	-5.55	1.33	1.38
1	N	1140	C	C2'-C1'	-5.55	1.47	1.53
1	N	548	G	C2'-C1'	-5.55	1.47	1.53
1	N	1332	A	N3-C4	-5.55	1.31	1.34
1	N	399	G	C5-C6	-5.55	1.36	1.42
1	N	219	U	C5-C6	-5.55	1.29	1.34
1	N	719	C	N3-C4	5.55	1.37	1.33
1	N	729	A	C4'-O4'	5.55	1.52	1.45
1	N	844	G	O3'-P	-5.55	1.54	1.61
1	N	946	A	C5-C4	5.54	1.42	1.38
1	N	31	G	C5'-C4'	5.54	1.58	1.51
1	N	461	A	C6-N6	5.54	1.38	1.33
1	N	951	G	C1'-N9	5.54	1.57	1.48
1	N	1250	A	C6-N6	5.54	1.38	1.33
1	N	1162	C	C3'-O3'	5.54	1.50	1.42
1	N	1072	G	N9-C8	-5.54	1.33	1.37
1	N	1435	G	N9-C8	-5.54	1.33	1.37
1	N	271	C	C1'-N1	5.54	1.57	1.48
1	N	558	G	C3'-C2'	-5.54	1.46	1.52
1	N	708	C	C2-O2	-5.54	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1242	G	C3'-O3'	5.54	1.50	1.42
1	N	100	G	C2-N3	5.54	1.37	1.32
1	N	862	C	O3'-P	-5.54	1.54	1.61
1	N	1235	U	C2-N3	5.54	1.41	1.37
1	N	160	A	N3-C4	-5.54	1.31	1.34
1	N	340	U	C1'-N1	5.54	1.57	1.48
1	N	356	A	C8-N7	-5.54	1.27	1.31
1	N	704	A	C6-N6	5.54	1.38	1.33
1	N	1087	G	C4'-C3'	5.54	1.59	1.53
1	N	206	C	C4'-C3'	-5.53	1.47	1.52
1	N	294	U	N1-C2	5.53	1.43	1.38
1	N	601	G	C3'-C2'	5.53	1.59	1.52
1	N	679	C	N3-C4	5.53	1.37	1.33
1	N	414	A	C2'-C1'	-5.53	1.47	1.53
1	N	726	C	C4-C5	-5.53	1.38	1.43
1	N	1402	C	C3'-C2'	-5.53	1.46	1.52
1	N	1485	U	C2-N3	5.53	1.41	1.37
1	N	480	U	C5-C6	-5.53	1.29	1.34
1	N	859	G	N1-C2	5.53	1.42	1.37
1	N	995	C	O3'-P	-5.53	1.54	1.61
1	N	1184	G	N7-C5	-5.53	1.35	1.39
1	N	1244	G	O3'-P	-5.53	1.54	1.61
1	N	1458	G	C6-N1	5.53	1.43	1.39
1	N	815	A	C3'-C2'	-5.53	1.46	1.52
1	N	889	A	O3'-P	-5.53	1.54	1.61
1	N	1074	G	C5-C4	5.53	1.42	1.38
1	N	429	U	C2-N3	5.53	1.41	1.37
1	N	1256	A	O3'-P	-5.53	1.54	1.61
1	N	1469	C	C5'-C4'	-5.53	1.44	1.51
1	N	254	G	N9-C8	-5.53	1.33	1.37
1	N	871	U	N1-C6	5.53	1.43	1.38
1	N	1092	A	N7-C5	-5.53	1.35	1.39
1	N	1245	C	N1-C6	5.53	1.40	1.37
1	N	1491	G	C4'-C3'	5.53	1.59	1.53
1	N	1508	A	C6-N6	5.53	1.38	1.33
1	N	1306	A	C3'-C2'	5.52	1.59	1.52
1	N	32	A	C6-N6	5.52	1.38	1.33
1	N	258	G	N9-C8	-5.52	1.33	1.37
1	N	315	A	C5-C6	-5.52	1.36	1.41
1	N	831	A	C6-N1	5.52	1.39	1.35
1	N	1475	G	C2-N3	5.52	1.37	1.32
1	N	723	U	C2-N3	5.52	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1100	C	N3-C4	5.52	1.37	1.33
1	N	1171	A	C6-N1	5.52	1.39	1.35
1	N	558	G	C4'-C3'	5.52	1.59	1.53
1	N	745	G	N9-C4	-5.52	1.33	1.38
1	N	1232	U	C2-O2	5.52	1.27	1.22
1	N	246	A	C2'-C1'	-5.51	1.47	1.53
1	N	358	U	N3-C4	5.51	1.43	1.38
1	N	872	A	N3-C4	5.51	1.38	1.34
1	N	911	U	C2'-C1'	-5.51	1.47	1.53
1	N	1447	A	N7-C5	-5.51	1.35	1.39
1	N	485	U	C1'-N1	5.51	1.57	1.48
1	N	1233	G	C2-N2	5.51	1.40	1.34
1	N	5	U	N3-C4	5.51	1.43	1.38
1	N	357	G	N9-C8	5.51	1.41	1.37
1	N	497	G	N9-C8	-5.51	1.33	1.37
1	N	533	A	C6-N6	5.51	1.38	1.33
1	N	802	A	O4'-C1'	-5.51	1.34	1.41
1	N	1089	G	N3-C4	-5.51	1.31	1.35
1	N	2	A	C6-N6	5.51	1.38	1.33
1	N	517	G	C5-C6	5.51	1.47	1.42
1	N	519	C	C4'-C3'	5.51	1.59	1.53
1	N	530	G	N7-C5	-5.51	1.35	1.39
1	N	792	A	C6-N6	5.51	1.38	1.33
1	N	840	C	C1'-N1	5.51	1.57	1.48
1	N	471	U	C5'-C4'	5.51	1.57	1.51
1	N	818	G	N7-C5	5.51	1.42	1.39
1	N	1184	G	C5-C6	-5.51	1.36	1.42
1	N	596	A	O4'-C1'	5.50	1.48	1.41
1	N	671	G	C2-N2	5.50	1.40	1.34
1	N	68	G	C8-N7	-5.50	1.27	1.30
1	N	317	U	O4'-C1'	5.50	1.48	1.41
1	N	476	U	C1'-N1	5.50	1.57	1.48
1	N	911	U	O4'-C1'	5.50	1.48	1.41
1	N	98	A	C6-N1	5.50	1.39	1.35
1	N	1079	G	C5-C6	-5.50	1.36	1.42
1	N	1285	A	N7-C5	-5.50	1.35	1.39
1	N	1349	A	O3'-P	-5.50	1.54	1.61
1	N	505	G	C3'-O3'	5.50	1.49	1.42
1	N	511	C	C2-N3	5.50	1.40	1.35
1	N	589	U	P-O5'	-5.50	1.54	1.59
1	N	767	A	C4'-C3'	5.50	1.59	1.53
1	N	1045	C	C4-C5	5.50	1.47	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1122	U	O4'-C1'	-5.50	1.34	1.41
1	N	1193	G	C5'-C4'	5.50	1.57	1.51
1	N	1304	G	C2-N3	5.50	1.37	1.32
1	N	1489	G	C6-O6	-5.50	1.19	1.24
1	N	266	G	C2-N2	-5.50	1.29	1.34
1	N	347	G	C5-C6	-5.50	1.36	1.42
1	N	570	G	N1-C2	5.50	1.42	1.37
1	N	725	G	P-O5'	-5.50	1.54	1.59
1	N	100	G	C1'-N9	5.50	1.56	1.48
1	N	774	G	C3'-O3'	5.50	1.49	1.42
1	N	1238	A	C2'-O2'	-5.50	1.34	1.41
1	N	716	A	N9-C4	-5.49	1.34	1.37
1	N	874	G	C5-C4	5.49	1.42	1.38
1	N	917	G	C4'-O4'	-5.49	1.38	1.45
1	N	117	G	N9-C4	5.49	1.42	1.38
1	N	210	C	C4-N4	5.49	1.38	1.33
1	N	1091	U	C2-N3	-5.49	1.33	1.37
1	N	1267	C	C5'-C4'	5.49	1.57	1.51
1	N	41	G	N3-C4	-5.49	1.31	1.35
1	N	1013	G	C2-N3	5.49	1.37	1.32
1	N	1488	G	C5'-C4'	5.49	1.57	1.51
1	N	1043	G	C4'-O4'	-5.49	1.38	1.45
1	N	1457	G	C8-N7	-5.49	1.27	1.30
1	N	183	C	C2-N3	5.49	1.40	1.35
1	N	361	G	P-O5'	-5.49	1.54	1.59
1	N	680	C	C5-C6	5.49	1.38	1.34
1	N	710	G	C5-C4	5.49	1.42	1.38
1	N	720	C	N3-C4	5.49	1.37	1.33
1	N	1337	G	O4'-C1'	5.49	1.48	1.41
1	N	14	U	O4'-C1'	5.48	1.48	1.41
1	N	583	A	N7-C5	-5.48	1.35	1.39
1	N	1236	A	C5-C4	5.48	1.42	1.38
1	N	86	G	C2'-C1'	-5.48	1.47	1.53
1	N	98	A	C8-N7	5.48	1.35	1.31
1	N	143	A	N9-C4	5.48	1.41	1.37
1	N	286	C	C2'-C1'	-5.48	1.47	1.53
1	N	581	G	P-O5'	-5.48	1.54	1.59
1	N	915	A	C5-C6	-5.48	1.36	1.41
1	N	1015	G	C4'-C3'	5.48	1.59	1.53
1	N	796	C	N1-C2	-5.48	1.34	1.40
1	N	1185	G	C8-N7	-5.48	1.27	1.30
1	N	1454	G	N7-C5	-5.48	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1531	A	N1-C2	-5.48	1.29	1.34
1	N	1140	C	N3-C4	5.48	1.37	1.33
1	N	565	U	C1'-N1	5.48	1.56	1.48
1	N	621	A	C8-N7	-5.48	1.27	1.31
1	N	1075	U	N1-C6	-5.48	1.33	1.38
1	N	1322	C	C5-C6	5.48	1.38	1.34
1	N	1410	A	C4'-O4'	5.48	1.52	1.45
1	N	448	A	N7-C5	5.47	1.42	1.39
1	N	513	C	C4-N4	5.47	1.38	1.33
1	N	1222	G	C8-N7	5.47	1.34	1.30
1	N	1335	U	P-O5'	-5.47	1.54	1.59
1	N	1371	G	C8-N7	-5.47	1.27	1.30
1	N	619	U	C2-N3	5.47	1.41	1.37
1	N	741	G	P-O5'	-5.47	1.54	1.59
1	N	812	G	C2-N2	5.47	1.40	1.34
1	N	1008	U	C2'-C1'	-5.47	1.47	1.53
1	N	1224	U	O3'-P	-5.47	1.54	1.61
1	N	1513	A	P-O5'	5.47	1.65	1.59
1	N	76	G	N3-C4	5.47	1.39	1.35
1	N	452	A	C2'-C1'	-5.47	1.47	1.53
1	N	1093	A	C4'-O4'	-5.47	1.38	1.45
1	N	990	C	C3'-O3'	5.47	1.49	1.42
1	N	1437	A	C2-N3	-5.47	1.28	1.33
1	N	843	U	C2'-C1'	5.47	1.59	1.53
1	N	941	G	C5'-C4'	5.47	1.57	1.51
1	N	326	G	C6-N1	5.46	1.43	1.39
1	N	497	G	C4'-C3'	5.46	1.59	1.53
1	N	1146	A	C4'-C3'	5.46	1.59	1.53
1	N	1170	A	C5-C4	5.46	1.42	1.38
1	N	1449	C	C5'-C4'	5.46	1.57	1.51
1	N	141	G	C2'-O2'	-5.46	1.34	1.41
1	N	743	A	N9-C4	5.46	1.41	1.37
1	N	75	G	C6-O6	5.46	1.29	1.24
1	N	966	G	N7-C5	-5.46	1.35	1.39
1	N	1119	C	C5'-C4'	5.46	1.57	1.51
1	N	1233	G	C5-C4	-5.46	1.34	1.38
1	N	1339	A	C5'-C4'	5.46	1.57	1.51
1	N	1366	C	N1-C6	-5.46	1.33	1.37
1	N	312	C	C4-N4	5.46	1.38	1.33
1	N	595	A	C5-C6	-5.46	1.36	1.41
1	N	1255	G	N9-C8	-5.46	1.34	1.37
1	N	1340	A	N9-C4	-5.46	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	37	U	C5-C6	5.46	1.39	1.34
1	N	587	G	C5-C4	5.46	1.42	1.38
1	N	198	G	P-O5'	-5.45	1.54	1.59
1	N	261	U	P-O5'	-5.45	1.54	1.59
1	N	666	G	C5-C4	5.45	1.42	1.38
1	N	1055	A	C8-N7	-5.45	1.27	1.31
1	N	1064	G	O3'-P	-5.45	1.54	1.61
1	N	1284	C	C4-N4	5.45	1.38	1.33
1	N	67	C	C2'-C1'	5.45	1.59	1.53
1	N	101	A	O3'-P	-5.45	1.54	1.61
1	N	7	A	N3-C4	-5.45	1.31	1.34
1	N	144	G	N7-C5	-5.45	1.35	1.39
1	N	533	A	O4'-C1'	5.45	1.48	1.41
1	N	1492	A	N9-C8	5.45	1.42	1.37
1	N	371	A	C6-N1	5.45	1.39	1.35
1	N	535	A	N9-C8	5.45	1.42	1.37
1	N	1095	U	C3'-C2'	5.45	1.58	1.52
1	N	1129	C	N1-C2	-5.45	1.34	1.40
1	N	1234	C	C2'-O2'	-5.45	1.34	1.41
1	N	272	C	C4-C5	5.45	1.47	1.43
1	N	149	A	C8-N7	-5.45	1.27	1.31
1	N	1019	A	C6-N1	5.44	1.39	1.35
1	N	658	C	C1'-N1	5.44	1.56	1.48
1	N	760	G	C5-C4	-5.44	1.34	1.38
1	N	1116	U	N1-C2	5.44	1.43	1.38
1	N	1482	G	P-O5'	-5.44	1.54	1.59
1	N	21	G	C5-C6	5.44	1.47	1.42
1	N	251	G	C6-N1	5.44	1.43	1.39
1	N	360	G	N9-C4	-5.44	1.33	1.38
1	N	765	G	N1-C2	5.44	1.42	1.37
1	N	1331	G	C5-C6	-5.44	1.36	1.42
1	N	1493	A	O4'-C1'	5.44	1.48	1.41
1	N	142	G	C4'-C3'	5.44	1.59	1.53
1	N	628	G	C6-N1	5.44	1.43	1.39
1	N	183	C	P-O5'	-5.44	1.54	1.59
1	N	787	A	C6-N1	5.44	1.39	1.35
1	N	1214	C	C4'-O4'	5.44	1.52	1.45
1	N	1411	C	C4-N4	5.44	1.38	1.33
1	N	663	A	N7-C5	-5.44	1.35	1.39
1	N	1174	G	O4'-C1'	5.44	1.48	1.41
1	N	1461	G	C5'-C4'	5.44	1.57	1.51
1	N	452	A	C2-N3	5.43	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	569	C	C2-O2	5.43	1.29	1.24
1	N	804	U	C2'-O2'	-5.43	1.34	1.41
1	N	1343	G	N9-C8	5.43	1.41	1.37
1	N	156	C	C4-N4	5.43	1.38	1.33
1	N	243	A	C5'-C4'	5.43	1.57	1.51
1	N	264	C	C5'-C4'	5.43	1.57	1.51
1	N	313	A	C8-N7	-5.43	1.27	1.31
1	N	417	G	C2-N3	5.43	1.37	1.32
1	N	958	A	N9-C8	-5.43	1.33	1.37
1	N	176	C	C5'-C4'	5.43	1.57	1.51
1	N	1016	A	C5'-C4'	5.43	1.57	1.51
1	N	633	G	C5-C6	-5.43	1.36	1.42
1	N	778	G	C5'-C4'	5.43	1.57	1.51
1	N	1095	U	P-O5'	-5.43	1.54	1.59
1	N	1510	C	C1'-N1	5.43	1.56	1.48
1	N	746	A	C2-N3	5.43	1.38	1.33
1	N	1331	G	N1-C2	5.43	1.42	1.37
1	N	458	U	C2-N3	5.43	1.41	1.37
1	N	664	G	C6-N1	5.43	1.43	1.39
1	N	682	G	O4'-C1'	5.43	1.48	1.41
1	N	1153	G	C4'-C3'	5.43	1.59	1.53
1	N	1497	G	C6-N1	5.43	1.43	1.39
1	N	377	G	C5'-C4'	-5.42	1.44	1.51
1	N	388	G	C2-N2	5.42	1.40	1.34
1	N	1344	C	P-O5'	-5.42	1.54	1.59
1	N	67	C	N3-C4	5.42	1.37	1.33
1	N	1067	A	N9-C4	5.42	1.41	1.37
1	N	161	A	C6-N1	5.42	1.39	1.35
1	N	301	G	C5-C4	5.42	1.42	1.38
1	N	391	G	P-O5'	-5.42	1.54	1.59
1	N	580	C	N3-C4	5.42	1.37	1.33
1	N	642	A	C5-C4	-5.42	1.34	1.38
1	N	946	A	N9-C4	5.42	1.41	1.37
1	N	51	A	C5'-C4'	5.42	1.57	1.51
1	N	137	U	C5'-C4'	5.42	1.57	1.51
1	N	644	U	C2-O2	5.42	1.27	1.22
1	N	700	G	C5'-C4'	5.42	1.57	1.51
1	N	106	C	N1-C2	5.42	1.45	1.40
1	N	163	C	C5'-C4'	5.42	1.57	1.51
1	N	355	C	C2-N3	5.42	1.40	1.35
1	N	712	A	C8-N7	-5.42	1.27	1.31
1	N	1012	A	C5-C6	-5.42	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1313	U	C3'-O3'	5.42	1.49	1.42
1	N	404	G	N3-C4	-5.42	1.31	1.35
1	N	451	A	N3-C4	-5.42	1.31	1.34
1	N	597	G	C4'-C3'	5.42	1.59	1.53
1	N	668	G	C6-N1	5.42	1.43	1.39
1	N	1341	U	P-O5'	5.42	1.65	1.59
1	N	1404	C	C2-N3	5.42	1.40	1.35
1	N	1531	A	O3'-P	-5.42	1.54	1.61
1	N	963	G	C6-N1	5.42	1.43	1.39
1	N	204	G	P-O5'	-5.41	1.54	1.59
1	N	208	U	P-O5'	5.41	1.65	1.59
1	N	516	U	C4'-C3'	5.41	1.59	1.53
1	N	1175	G	P-O5'	5.41	1.65	1.59
1	N	107	G	N1-C2	5.41	1.42	1.37
1	N	135	C	C1'-N1	5.41	1.56	1.48
1	N	753	A	C4'-C3'	5.41	1.59	1.53
1	N	338	A	C4'-O4'	5.41	1.52	1.45
1	N	734	G	C2'-O2'	-5.41	1.34	1.41
1	N	1328	C	C5'-C4'	5.41	1.57	1.51
1	N	1400	C	N1-C2	5.41	1.45	1.40
1	N	98	A	C4'-C3'	-5.41	1.47	1.52
1	N	590	U	N1-C6	5.41	1.42	1.38
1	N	838	G	C3'-C2'	5.41	1.58	1.52
1	N	1260	G	C8-N7	-5.41	1.27	1.30
1	N	669	G	N3-C4	-5.41	1.31	1.35
1	N	201	G	N7-C5	-5.40	1.36	1.39
1	N	1424	U	C4-C5	5.40	1.48	1.43
1	N	147	G	C2-N3	5.40	1.37	1.32
1	N	242	G	N3-C4	-5.40	1.31	1.35
1	N	378	G	O4'-C1'	-5.40	1.34	1.41
1	N	857	C	C3'-C2'	-5.40	1.46	1.52
1	N	1036	A	C5-C6	-5.40	1.36	1.41
1	N	1268	G	C6-O6	-5.40	1.19	1.24
1	N	1517	G	C8-N7	-5.40	1.27	1.30
1	N	81	A	N9-C4	-5.40	1.34	1.37
1	N	529	G	C2'-C1'	-5.40	1.47	1.53
1	N	556	C	C4-N4	5.40	1.38	1.33
1	N	1089	G	N7-C5	-5.40	1.36	1.39
1	N	1352	C	C4-N4	5.40	1.38	1.33
1	N	1394	A	N7-C5	-5.40	1.36	1.39
1	N	235	C	C2'-C1'	-5.40	1.47	1.53
1	N	412	A	C6-N1	5.40	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	491	G	P-O5'	5.40	1.65	1.59
1	N	39	G	C5-C6	5.40	1.47	1.42
1	N	592	G	C2-N2	5.40	1.40	1.34
1	N	758	C	C5-C6	5.40	1.38	1.34
1	N	990	C	O3'-P	-5.40	1.54	1.61
1	N	1518	A	C6-N1	5.40	1.39	1.35
1	N	838	G	N1-C2	5.39	1.42	1.37
1	N	1178	G	C5-C6	-5.39	1.36	1.42
1	N	1386	G	C5-C4	5.39	1.42	1.38
1	N	259	G	C4'-O4'	5.39	1.52	1.45
1	N	541	G	C6-N1	5.39	1.43	1.39
1	N	812	G	C2-N3	5.39	1.37	1.32
1	N	924	C	C2-O2	5.39	1.29	1.24
1	N	1221	G	C5-C6	-5.39	1.36	1.42
1	N	1254	A	C6-N6	5.39	1.38	1.33
1	N	1320	C	C4'-O4'	-5.39	1.38	1.45
1	N	642	A	N7-C5	-5.39	1.36	1.39
1	N	825	A	C8-N7	5.39	1.35	1.31
1	N	426	U	O3'-P	-5.39	1.54	1.61
1	N	711	G	C8-N7	-5.39	1.27	1.30
1	N	748	G	C5-C4	5.39	1.42	1.38
1	N	788	U	C3'-C2'	5.39	1.58	1.52
1	N	943	U	O3'-P	-5.39	1.54	1.61
1	N	992	U	C4'-C3'	5.39	1.59	1.53
1	N	1011	C	C2-O2	5.39	1.29	1.24
1	N	1021	A	C6-N1	5.39	1.39	1.35
1	N	1191	A	C8-N7	-5.39	1.27	1.31
1	N	1239	A	P-O5'	-5.39	1.54	1.59
1	N	1259	C	N1-C6	5.39	1.40	1.37
1	N	35	G	N3-C4	-5.39	1.31	1.35
1	N	988	G	C8-N7	-5.39	1.27	1.30
1	N	204	G	C2-N2	5.39	1.40	1.34
1	N	908	A	O3'-P	-5.39	1.54	1.61
1	N	1243	C	C5'-C4'	5.39	1.57	1.51
1	N	350	G	C5'-C4'	5.38	1.57	1.51
1	N	642	A	C3'-O3'	5.38	1.49	1.42
1	N	698	G	C8-N7	-5.38	1.27	1.30
1	N	290	C	O3'-P	-5.38	1.54	1.61
1	N	1023	U	P-O5'	5.38	1.65	1.59
1	N	1247	U	N1-C6	5.38	1.42	1.38
1	N	493	A	C6-N6	5.38	1.38	1.33
1	N	849	G	C2-N2	5.38	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1334	G	C5-C4	-5.38	1.34	1.38
1	N	1396	A	C2-N3	5.38	1.38	1.33
1	N	276	G	C2-N3	5.38	1.37	1.32
1	N	524	G	C4'-O4'	-5.38	1.38	1.45
1	N	751	U	C4-O4	5.38	1.27	1.23
1	N	816	A	N7-C5	-5.38	1.36	1.39
1	N	994	A	C2'-C1'	-5.38	1.47	1.53
1	N	1196	A	C6-N6	5.38	1.38	1.33
1	N	1272	G	N1-C2	5.38	1.42	1.37
1	N	65	A	C6-N6	-5.38	1.29	1.33
1	N	205	A	C2'-C1'	-5.38	1.47	1.53
1	N	1086	U	C4'-O4'	5.38	1.52	1.45
1	N	912	C	N3-C4	5.38	1.37	1.33
1	N	1050	G	P-O5'	-5.38	1.54	1.59
1	N	1309	G	P-O5'	-5.38	1.54	1.59
1	N	69	G	C5'-C4'	5.37	1.57	1.51
1	N	91	U	C2-N3	5.37	1.41	1.37
1	N	123	U	C2'-O2'	-5.37	1.34	1.41
1	N	546	A	C5-C6	-5.37	1.36	1.41
1	N	694	A	C4'-C3'	5.37	1.59	1.53
1	N	1061	G	C2-N2	5.37	1.40	1.34
1	N	1339	A	N9-C8	5.37	1.42	1.37
1	N	951	G	C2-N3	5.37	1.37	1.32
1	N	956	U	C4'-O4'	5.37	1.52	1.45
1	N	1301	U	N3-C4	-5.37	1.33	1.38
1	N	1124	G	C2'-C1'	-5.37	1.47	1.53
1	N	1275	A	N9-C8	-5.37	1.33	1.37
1	N	454	G	C3'-C2'	-5.37	1.46	1.52
1	N	568	G	C4'-C3'	5.37	1.59	1.53
1	N	710	G	P-O5'	-5.37	1.54	1.59
1	N	1246	A	O3'-P	-5.37	1.54	1.61
1	N	1441	A	C8-N7	5.37	1.35	1.31
1	N	1496	C	C1'-N1	5.37	1.56	1.48
1	N	229	U	C3'-O3'	5.37	1.49	1.42
1	N	1204	A	O4'-C1'	5.37	1.48	1.41
1	N	1328	C	C1'-N1	-5.37	1.39	1.46
1	N	141	G	O3'-P	-5.37	1.54	1.61
1	N	589	U	C2-N3	5.37	1.41	1.37
1	N	1073	U	C5-C6	5.37	1.39	1.34
1	N	1239	A	C2'-O2'	-5.37	1.34	1.41
1	N	1043	G	C6-N1	5.36	1.43	1.39
1	N	1261	A	N9-C4	5.36	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1460	C	C1'-N1	5.36	1.56	1.48
1	N	608	A	C4'-C3'	5.36	1.59	1.53
1	N	342	C	C2'-C1'	5.36	1.59	1.53
1	N	767	A	C6-N6	5.36	1.38	1.33
1	N	1311	A	C5'-C4'	5.36	1.57	1.51
1	N	1534	A	C5-C6	5.36	1.45	1.41
1	N	309	A	N1-C2	5.36	1.39	1.34
1	N	1242	G	C5-C6	-5.36	1.36	1.42
1	N	354	G	C5'-C4'	5.36	1.57	1.51
1	N	812	G	N7-C5	-5.36	1.36	1.39
1	N	1138	G	C4'-C3'	-5.36	1.47	1.52
1	N	1466	C	O4'-C1'	5.36	1.48	1.41
1	N	795	C	C2'-C1'	-5.36	1.47	1.53
1	N	1000	A	C6-N1	5.36	1.39	1.35
1	N	397	A	C6-N6	5.35	1.38	1.33
1	N	328	C	C4-N4	5.35	1.38	1.33
1	N	925	G	C2-N2	5.35	1.40	1.34
1	N	1220	G	C2-N3	5.35	1.37	1.32
1	N	1317	C	C3'-C2'	5.35	1.58	1.52
1	N	141	G	N9-C4	-5.35	1.33	1.38
1	N	999	C	C3'-C2'	-5.35	1.46	1.52
1	N	1303	C	C3'-C2'	5.35	1.58	1.52
1	N	232	G	O4'-C1'	5.35	1.48	1.41
1	N	415	A	O4'-C1'	5.35	1.48	1.41
1	N	578	C	N1-C6	-5.35	1.33	1.37
1	N	1084	G	C5-C4	-5.35	1.34	1.38
1	N	1324	A	C4'-O4'	5.35	1.52	1.45
1	N	1361	G	C5'-C4'	5.35	1.57	1.51
1	N	1494	G	N7-C5	-5.35	1.36	1.39
1	N	101	A	C1'-N9	5.35	1.56	1.48
1	N	654	G	P-O5'	-5.35	1.54	1.59
1	N	1029	U	C3'-C2'	5.35	1.58	1.52
1	N	1034	G	N1-C2	5.35	1.42	1.37
1	N	1144	G	C4'-C3'	5.35	1.59	1.53
1	N	107	G	C6-N1	5.34	1.43	1.39
1	N	743	A	C6-N1	5.34	1.39	1.35
1	N	914	A	C2'-O2'	-5.34	1.34	1.41
1	N	67	C	C4-C5	-5.34	1.38	1.43
1	N	251	G	C3'-O3'	5.34	1.49	1.42
1	N	638	U	C4-O4	-5.34	1.19	1.23
1	N	892	A	C2'-C1'	-5.34	1.47	1.53
1	N	1227	A	P-O5'	5.34	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	686	U	C5-C6	5.34	1.39	1.34
1	N	1481	U	C2-N3	5.34	1.41	1.37
1	N	317	U	C4-O4	5.34	1.27	1.23
1	N	725	G	N1-C2	5.34	1.42	1.37
1	N	1457	G	N1-C2	5.34	1.42	1.37
1	N	328	C	P-O5'	-5.34	1.54	1.59
1	N	122	G	C5-C4	5.34	1.42	1.38
1	N	465	A	O4'-C1'	5.34	1.48	1.41
1	N	470	C	C4-C5	-5.34	1.38	1.43
1	N	502	A	C6-N6	5.34	1.38	1.33
1	N	1241	G	C4'-O4'	5.34	1.52	1.45
1	N	1496	C	C5'-C4'	5.34	1.57	1.51
1	N	830	G	C4'-C3'	5.33	1.59	1.53
1	N	901	A	C2-N3	5.33	1.38	1.33
1	N	974	A	O3'-P	-5.33	1.54	1.61
1	N	996	A	C6-N6	5.33	1.38	1.33
1	N	417	G	C8-N7	-5.33	1.27	1.30
1	N	1029	U	C2-N3	5.33	1.41	1.37
1	N	1136	C	O3'-P	-5.33	1.54	1.61
1	N	241	G	C1'-N9	5.33	1.56	1.48
1	N	1421	G	C2'-C1'	5.33	1.59	1.53
1	N	1118	U	N1-C6	5.33	1.42	1.38
1	N	224	U	C5'-C4'	5.33	1.57	1.51
1	N	262	A	C5-C4	5.33	1.42	1.38
1	N	295	C	C1'-N1	5.33	1.56	1.48
1	N	351	G	N9-C4	-5.33	1.33	1.38
1	N	475	C	C5'-C4'	5.33	1.57	1.51
1	N	862	C	N3-C4	5.33	1.37	1.33
1	N	869	G	C5-C4	-5.33	1.34	1.38
1	N	1249	C	C5'-C4'	5.33	1.57	1.51
1	N	1433	A	N7-C5	-5.33	1.36	1.39
1	N	1497	G	C2-N3	5.33	1.37	1.32
1	N	691	G	N9-C8	5.33	1.41	1.37
1	N	385	C	P-O5'	-5.33	1.54	1.59
1	N	607	A	C2-N3	5.33	1.38	1.33
1	N	223	A	C5-C4	5.32	1.42	1.38
1	N	269	C	C4-N4	5.32	1.38	1.33
1	N	306	A	C6-N1	5.32	1.39	1.35
1	N	549	C	C4-N4	5.32	1.38	1.33
1	N	925	G	C4'-O4'	5.32	1.52	1.45
1	N	281	G	C2-N2	5.32	1.39	1.34
1	N	849	G	C5-C4	5.32	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1502	A	C5'-C4'	5.32	1.57	1.51
1	N	308	C	C4-N4	5.32	1.38	1.33
1	N	645	G	C5-C6	-5.32	1.37	1.42
1	N	1077	G	C3'-O3'	-5.32	1.34	1.42
1	N	1486	G	C8-N7	5.32	1.34	1.30
1	N	942	G	C8-N7	-5.32	1.27	1.30
1	N	1226	C	N1-C6	-5.32	1.33	1.37
1	N	113	G	C5-C4	5.32	1.42	1.38
1	N	344	A	N3-C4	-5.32	1.31	1.34
1	N	402	G	C2-N3	5.32	1.37	1.32
1	N	486	U	N1-C6	5.32	1.42	1.38
1	N	542	G	C2'-C1'	-5.32	1.47	1.53
1	N	1064	G	C3'-C2'	5.32	1.58	1.52
1	N	1392	G	C5-C6	-5.32	1.37	1.42
1	N	40	C	O5'-C5'	5.32	1.52	1.44
1	N	861	G	O3'-P	-5.32	1.54	1.61
1	N	1181	G	N9-C8	-5.32	1.34	1.37
1	N	1419	G	C2-N2	5.32	1.39	1.34
1	N	71	A	N9-C8	-5.31	1.33	1.37
1	N	1332	A	C4'-O4'	5.31	1.52	1.45
1	N	215	C	C4-C5	-5.31	1.38	1.43
1	N	1415	G	C5-C6	-5.31	1.37	1.42
1	N	1491	G	N7-C5	5.31	1.42	1.39
1	N	318	G	C2'-C1'	-5.31	1.47	1.53
1	N	812	G	P-O5'	-5.31	1.54	1.59
1	N	1180	A	C5-C4	-5.31	1.35	1.38
1	N	1082	A	C2-N3	5.31	1.38	1.33
1	N	1473	G	C5-C4	5.31	1.42	1.38
1	N	4	U	C2-N3	5.31	1.41	1.37
1	N	523	A	C8-N7	-5.31	1.27	1.31
1	N	602	A	N7-C5	-5.31	1.36	1.39
1	N	750	C	C2-N3	-5.31	1.31	1.35
1	N	1133	G	C4'-O4'	5.31	1.52	1.45
1	N	1251	A	O4'-C1'	-5.31	1.34	1.41
1	N	1306	A	N9-C4	5.31	1.41	1.37
1	N	1430	A	O3'-P	5.31	1.67	1.61
1	N	1158	C	C1'-N1	5.31	1.56	1.48
1	N	1494	G	O4'-C1'	5.31	1.48	1.41
1	N	1350	A	C2'-O2'	5.30	1.48	1.41
1	N	1426	G	P-O5'	-5.30	1.54	1.59
1	N	372	C	C4'-C3'	5.30	1.58	1.53
1	N	943	U	N3-C4	5.30	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1396	A	C4'-O4'	-5.30	1.38	1.45
1	N	568	G	N7-C5	-5.30	1.36	1.39
1	N	569	C	C4-C5	-5.30	1.38	1.43
1	N	999	C	N1-C6	-5.30	1.33	1.37
1	N	1105	A	N1-C2	-5.30	1.29	1.34
1	N	1181	G	O4'-C1'	5.30	1.48	1.41
1	N	1188	A	N9-C4	5.30	1.41	1.37
1	N	168	G	C5-C6	-5.30	1.37	1.42
1	N	382	A	C5'-C4'	5.30	1.57	1.51
1	N	672	U	C2-N3	5.30	1.41	1.37
1	N	678	U	C2'-C1'	-5.30	1.47	1.53
1	N	890	G	N9-C8	5.30	1.41	1.37
1	N	1124	G	N7-C5	-5.30	1.36	1.39
1	N	1334	G	N9-C4	-5.30	1.33	1.38
1	N	113	G	N7-C5	-5.30	1.36	1.39
1	N	353	A	C4'-C3'	5.30	1.58	1.53
1	N	282	A	N9-C4	5.30	1.41	1.37
1	N	548	G	C3'-C2'	5.30	1.58	1.52
1	N	696	A	N3-C4	-5.30	1.31	1.34
1	N	905	U	N1-C6	5.30	1.42	1.38
1	N	916	U	N1-C6	-5.30	1.33	1.38
1	N	497	G	C5-C6	-5.29	1.37	1.42
1	N	1021	A	C5'-C4'	5.29	1.57	1.51
1	N	8	A	C6-N6	5.29	1.38	1.33
1	N	50	A	C4'-C3'	5.29	1.58	1.53
1	N	566	G	C6-O6	-5.29	1.19	1.24
1	N	954	G	C3'-C2'	-5.29	1.47	1.52
1	N	1206	G	C5-C4	-5.29	1.34	1.38
1	N	5	U	N1-C6	-5.29	1.33	1.38
1	N	688	G	C6-N1	5.29	1.43	1.39
1	N	1073	U	C4'-O4'	-5.29	1.38	1.45
1	N	1157	A	N9-C8	-5.29	1.33	1.37
1	N	1355	G	C6-N1	5.29	1.43	1.39
1	N	866	C	P-O5'	-5.29	1.54	1.59
1	N	13	U	O3'-P	-5.29	1.54	1.61
1	N	968	A	N7-C5	-5.29	1.36	1.39
1	N	29	U	P-O5'	5.29	1.65	1.59
1	N	207	C	C5-C6	5.29	1.38	1.34
1	N	271	C	C3'-O3'	5.29	1.49	1.42
1	N	367	U	P-O5'	-5.29	1.54	1.59
1	N	1287	A	N9-C4	5.29	1.41	1.37
1	N	1352	C	N1-C2	-5.29	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	43	C	N1-C2	-5.28	1.34	1.40
1	N	265	G	C3'-O3'	-5.28	1.34	1.42
1	N	609	A	N1-C2	5.28	1.39	1.34
1	N	801	U	C5'-C4'	5.28	1.57	1.51
1	N	1358	U	C4'-O4'	-5.28	1.38	1.45
1	N	1363	A	C5-C4	5.28	1.42	1.38
1	N	1530	G	N1-C2	5.28	1.42	1.37
1	N	123	U	N1-C6	5.28	1.42	1.38
1	N	72	A	C2-N3	5.28	1.38	1.33
1	N	540	G	C2-N3	5.28	1.36	1.32
1	N	600	A	N3-C4	5.28	1.38	1.34
1	N	779	C	N1-C6	5.28	1.40	1.37
1	N	1185	G	C2-N3	5.28	1.36	1.32
1	N	18	C	C4-N4	5.28	1.38	1.33
1	N	110	C	C4-N4	5.28	1.38	1.33
1	N	354	G	C3'-C2'	5.28	1.58	1.52
1	N	723	U	P-O5'	-5.28	1.54	1.59
1	N	817	C	C2-O2	5.28	1.29	1.24
1	N	1338	G	O3'-P	-5.28	1.54	1.61
1	N	285	C	P-O5'	-5.27	1.54	1.59
1	N	1272	G	C5-C4	-5.27	1.34	1.38
1	N	1317	C	P-O5'	-5.27	1.54	1.59
1	N	174	A	N9-C4	-5.27	1.34	1.37
1	N	446	G	P-O5'	-5.27	1.54	1.59
1	N	953	G	O3'-P	5.27	1.67	1.61
1	N	1210	C	C5-C6	-5.27	1.30	1.34
1	N	1400	C	C1'-N1	5.27	1.56	1.48
1	N	51	A	C8-N7	-5.27	1.27	1.31
1	N	436	C	N1-C6	5.27	1.40	1.37
1	N	1061	G	C5'-C4'	5.27	1.57	1.51
1	N	1149	C	C4-N4	5.27	1.38	1.33
1	N	1424	U	N1-C2	5.27	1.43	1.38
1	N	158	G	O4'-C1'	-5.27	1.34	1.41
1	N	381	C	C2'-C1'	-5.27	1.47	1.53
1	N	1211	U	C5-C6	5.27	1.38	1.34
1	N	1434	A	N7-C5	-5.27	1.36	1.39
1	N	1476	A	O4'-C1'	5.27	1.48	1.41
1	N	137	U	N3-C4	5.27	1.43	1.38
1	N	1016	A	O3'-P	-5.27	1.54	1.61
1	N	1085	U	C4'-C3'	5.27	1.58	1.53
1	N	119	A	N1-C2	5.26	1.39	1.34
1	N	394	G	C6-N1	5.26	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	656	G	C8-N7	5.26	1.34	1.30
1	N	1139	G	C2-N3	5.26	1.36	1.32
1	N	1362	A	C2-N3	5.26	1.38	1.33
1	N	49	U	N1-C2	-5.26	1.33	1.38
1	N	143	A	C8-N7	5.26	1.35	1.31
1	N	633	G	C2-N3	5.26	1.36	1.32
1	N	775	G	P-O5'	-5.26	1.54	1.59
1	N	994	A	C8-N7	-5.26	1.27	1.31
1	N	1003	G	N9-C8	5.26	1.41	1.37
1	N	1081	A	P-O5'	-5.26	1.54	1.59
1	N	1173	U	C5'-C4'	5.26	1.57	1.51
1	N	455	G	C4'-C3'	5.26	1.58	1.53
1	N	349	A	C6-N1	5.26	1.39	1.35
1	N	401	C	N3-C4	5.26	1.37	1.33
1	N	590	U	C2-N3	5.26	1.41	1.37
1	N	607	A	C6-N6	5.26	1.38	1.33
1	N	911	U	C4-O4	-5.26	1.19	1.23
1	N	9	G	C2-N3	5.25	1.36	1.32
1	N	703	G	N1-C2	5.25	1.42	1.37
1	N	730	G	N9-C8	5.25	1.41	1.37
1	N	1132	C	C5-C6	5.25	1.38	1.34
1	N	1144	G	N1-C2	5.25	1.42	1.37
1	N	1297	G	C5'-C4'	5.25	1.57	1.51
1	N	289	G	C2-N3	5.25	1.36	1.32
1	N	338	A	C3'-C2'	-5.25	1.47	1.52
1	N	506	G	C5-C6	-5.25	1.37	1.42
1	N	519	C	C5-C6	-5.25	1.30	1.34
1	N	660	C	C3'-C2'	-5.25	1.47	1.52
1	N	935	A	N1-C2	5.25	1.39	1.34
1	N	974	A	C2'-C1'	-5.25	1.47	1.53
1	N	36	C	C5'-C4'	5.25	1.57	1.51
1	N	297	G	C5-C4	5.25	1.42	1.38
1	N	873	A	C5'-C4'	5.25	1.57	1.51
1	N	1063	C	C4-N4	5.25	1.38	1.33
1	N	1224	U	C2-N3	5.25	1.41	1.37
1	N	1358	U	C2-O2	5.25	1.27	1.22
1	N	268	U	C2-N3	5.25	1.41	1.37
1	N	360	G	C4'-O4'	5.25	1.52	1.45
1	N	485	U	C4'-O4'	5.25	1.52	1.45
1	N	514	C	N1-C6	5.25	1.40	1.37
1	N	561	U	C4'-O4'	5.25	1.52	1.45
1	N	680	C	O3'-P	-5.25	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	712	A	C3'-C2'	-5.25	1.47	1.52
1	N	64	G	C4'-C3'	5.25	1.58	1.53
1	N	775	G	C5'-C4'	5.25	1.57	1.51
1	N	1057	G	C5-C4	5.25	1.42	1.38
1	N	1140	C	C1'-N1	5.25	1.56	1.48
1	N	1281	C	C3'-O3'	5.25	1.49	1.42
1	N	903	G	C4'-O4'	-5.25	1.38	1.45
1	N	138	G	C2-N2	5.24	1.39	1.34
1	N	542	G	C2-N2	5.24	1.39	1.34
1	N	1277	C	O3'-P	-5.24	1.54	1.61
1	N	246	A	N1-C2	-5.24	1.29	1.34
1	N	824	G	C5-C6	-5.24	1.37	1.42
1	N	12	U	C3'-C2'	5.24	1.58	1.52
1	N	130	A	C4'-C3'	5.24	1.58	1.53
1	N	1377	A	C5-C6	-5.24	1.36	1.41
1	N	218	U	C1'-N1	5.24	1.56	1.48
1	N	665	A	N7-C5	-5.24	1.36	1.39
1	N	686	U	C4-C5	5.24	1.48	1.43
1	N	867	G	C2-N3	5.24	1.36	1.32
1	N	988	G	C6-N1	5.24	1.43	1.39
1	N	996	A	C4'-C3'	5.24	1.58	1.53
1	N	1095	U	C5'-C4'	5.24	1.57	1.51
1	N	1229	A	C4'-C3'	5.24	1.58	1.53
1	N	476	U	C4'-O4'	-5.24	1.38	1.45
1	N	746	A	C5-C4	5.24	1.42	1.38
1	N	1394	A	C6-N1	5.24	1.39	1.35
1	N	305	G	C2-N3	5.24	1.36	1.32
1	N	559	A	N7-C5	-5.24	1.36	1.39
1	N	703	G	P-O5'	-5.24	1.54	1.59
1	N	873	A	N9-C4	5.24	1.41	1.37
1	N	1170	A	N9-C8	-5.24	1.33	1.37
1	N	484	G	N7-C5	-5.23	1.36	1.39
1	N	871	U	P-O5'	-5.23	1.54	1.59
1	N	218	U	C2'-C1'	5.23	1.59	1.53
1	N	221	C	O3'-P	-5.23	1.54	1.61
1	N	231	U	C4-C5	5.23	1.48	1.43
1	N	424	G	C4'-O4'	5.23	1.52	1.45
1	N	773	G	N9-C4	-5.23	1.33	1.38
1	N	970	C	O4'-C1'	-5.23	1.34	1.41
1	N	1205	U	C2-O2	5.23	1.27	1.22
1	N	943	U	C5'-C4'	5.23	1.57	1.51
1	N	971	G	N1-C2	5.23	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	498	A	C4'-O4'	5.23	1.52	1.45
1	N	965	U	N3-C4	5.23	1.43	1.38
1	N	49	U	C2-N3	5.23	1.41	1.37
1	N	184	G	C2'-C1'	-5.23	1.47	1.53
1	N	553	A	C6-N6	-5.23	1.29	1.33
1	N	1240	U	P-O5'	-5.23	1.54	1.59
1	N	170	U	C2'-C1'	-5.23	1.47	1.53
1	N	666	G	N1-C2	5.23	1.42	1.37
1	N	468	A	P-O5'	-5.22	1.54	1.59
1	N	935	A	C5'-C4'	5.22	1.57	1.51
1	N	1281	C	N3-C4	5.22	1.37	1.33
1	N	1299	A	C5-C6	5.22	1.45	1.41
1	N	1326	U	C4'-C3'	5.22	1.58	1.53
1	N	1522	U	N3-C4	5.22	1.43	1.38
1	N	286	C	C2-N3	5.22	1.40	1.35
1	N	496	A	N9-C4	-5.22	1.34	1.37
1	N	927	G	N3-C4	-5.22	1.31	1.35
1	N	1053	G	O5'-C5'	5.22	1.52	1.44
1	N	1493	A	N3-C4	5.22	1.38	1.34
1	N	638	U	N1-C6	-5.22	1.33	1.38
1	N	1017	U	C3'-C2'	-5.22	1.47	1.52
1	N	358	U	C4'-O4'	5.22	1.52	1.45
1	N	774	G	O4'-C1'	5.22	1.48	1.41
1	N	892	A	O4'-C1'	5.22	1.48	1.41
1	N	913	A	O3'-P	-5.22	1.54	1.61
1	N	1473	G	C4'-O4'	5.22	1.52	1.45
1	N	62	U	C2-N3	5.22	1.41	1.37
1	N	925	G	N3-C4	-5.22	1.31	1.35
1	N	318	G	C2-N2	5.22	1.39	1.34
1	N	389	A	C5-C4	5.22	1.42	1.38
1	N	423	G	C2-N3	5.22	1.36	1.32
1	N	484	G	C5-C4	-5.22	1.34	1.38
1	N	568	G	N9-C8	5.22	1.41	1.37
1	N	944	G	P-O5'	-5.22	1.54	1.59
1	N	1104	G	C2-N2	5.22	1.39	1.34
1	N	1391	U	C2'-C1'	-5.22	1.47	1.53
1	N	1435	G	C6-N1	5.22	1.43	1.39
1	N	145	G	C8-N7	5.21	1.34	1.30
1	N	359	G	C3'-O3'	5.21	1.49	1.42
1	N	550	G	C2-N2	5.21	1.39	1.34
1	N	557	G	C4'-C3'	-5.21	1.47	1.52
1	N	687	A	C2-N3	-5.21	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	700	G	C1'-N9	5.21	1.56	1.48
1	N	832	G	N9-C8	-5.21	1.34	1.37
1	N	1308	U	C2'-C1'	-5.21	1.47	1.53
1	N	822	U	P-O5'	-5.21	1.54	1.59
1	N	903	G	C2-N2	5.21	1.39	1.34
1	N	526	C	C1'-N1	5.21	1.56	1.48
1	N	668	G	N7-C5	-5.21	1.36	1.39
1	N	768	A	P-O5'	-5.21	1.54	1.59
1	N	964	A	C2'-C1'	-5.21	1.47	1.53
1	N	1154	G	N3-C4	-5.21	1.31	1.35
1	N	1282	C	C2-N3	5.21	1.40	1.35
1	N	142	G	O3'-P	-5.21	1.54	1.61
1	N	759	A	C5-C6	5.21	1.45	1.41
1	N	829	G	C2-N3	5.21	1.36	1.32
1	N	550	G	N3-C4	5.21	1.39	1.35
1	N	657	U	C2-N3	5.21	1.41	1.37
1	N	1160	G	N3-C4	5.21	1.39	1.35
1	N	35	G	N9-C4	-5.21	1.33	1.38
1	N	82	G	N9-C8	5.21	1.41	1.37
1	N	524	G	C3'-O3'	-5.21	1.34	1.42
1	N	818	G	C8-N7	5.21	1.34	1.30
1	N	98	A	C2-N3	-5.20	1.28	1.33
1	N	100	G	C8-N7	-5.20	1.27	1.30
1	N	314	C	C2'-C1'	-5.20	1.47	1.53
1	N	818	G	C4'-O4'	-5.20	1.38	1.45
1	N	1395	C	O4'-C1'	5.20	1.48	1.41
1	N	342	C	C2-N3	5.20	1.40	1.35
1	N	1118	U	C2-N3	5.20	1.41	1.37
1	N	1175	G	C6-N1	5.20	1.43	1.39
1	N	706	A	C1'-N9	5.20	1.56	1.48
1	N	76	G	N7-C5	-5.20	1.36	1.39
1	N	178	C	N3-C4	5.20	1.37	1.33
1	N	282	A	C5-C6	5.20	1.45	1.41
1	N	1089	G	C5'-C4'	-5.20	1.45	1.51
1	N	140	U	O3'-P	-5.20	1.54	1.61
1	N	587	G	P-O5'	-5.20	1.54	1.59
1	N	1060	U	C2-O2	5.20	1.27	1.22
1	N	1119	C	C2'-O2'	5.20	1.48	1.41
1	N	460	A	N3-C4	-5.20	1.31	1.34
1	N	574	A	O3'-P	-5.20	1.54	1.61
1	N	784	A	C2'-C1'	-5.20	1.47	1.53
1	N	1285	A	C5-C4	5.20	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1443	C	C2-O2	-5.20	1.19	1.24
1	N	215	C	O3'-P	-5.19	1.54	1.61
1	N	301	G	N1-C2	5.19	1.42	1.37
1	N	685	G	O4'-C1'	-5.19	1.34	1.41
1	N	219	U	C2'-C1'	5.19	1.59	1.53
1	N	727	G	C5-C6	-5.19	1.37	1.42
1	N	834	U	N1-C2	-5.19	1.33	1.38
1	N	5	U	C4-C5	5.19	1.48	1.43
1	N	338	A	C8-N7	-5.19	1.27	1.31
1	N	538	G	N3-C4	-5.19	1.31	1.35
1	N	894	G	C5-C6	-5.19	1.37	1.42
1	N	1203	C	C4-C5	5.19	1.47	1.43
1	N	19	A	N7-C5	5.19	1.42	1.39
1	N	228	A	C5-C4	5.19	1.42	1.38
1	N	295	C	N1-C2	-5.19	1.34	1.40
1	N	410	G	N9-C8	5.19	1.41	1.37
1	N	570	G	N9-C8	-5.19	1.34	1.37
1	N	1156	G	N7-C5	-5.19	1.36	1.39
1	N	1179	A	N3-C4	-5.19	1.31	1.34
1	N	1362	A	N7-C5	5.19	1.42	1.39
1	N	252	U	P-OP1	5.19	1.57	1.49
1	N	380	G	C5'-C4'	5.19	1.57	1.51
1	N	1468	A	O4'-C1'	5.19	1.48	1.41
1	N	767	A	C5'-C4'	-5.18	1.45	1.51
1	N	1181	G	C6-N1	-5.18	1.35	1.39
1	N	118	U	C5'-C4'	5.18	1.57	1.51
1	N	1288	A	C6-N6	5.18	1.38	1.33
1	N	628	G	P-O5'	5.18	1.65	1.59
1	N	1118	U	C2'-C1'	-5.18	1.47	1.53
1	N	716	A	O3'-P	-5.18	1.54	1.61
1	N	794	A	C6-N6	5.18	1.38	1.33
1	N	1288	A	C4'-O4'	-5.18	1.38	1.45
1	N	1511	G	C1'-N9	5.18	1.56	1.48
1	N	340	U	C3'-C2'	5.18	1.58	1.52
1	N	525	C	C1'-N1	5.18	1.56	1.48
1	N	1176	A	P-O5'	-5.18	1.54	1.59
1	N	3	A	C2'-C1'	-5.18	1.47	1.53
1	N	358	U	N1-C2	-5.18	1.33	1.38
1	N	370	C	P-O5'	-5.18	1.54	1.59
1	N	1158	C	N3-C4	5.18	1.37	1.33
1	N	16	A	C5'-C4'	-5.17	1.45	1.51
1	N	166	U	C1'-N1	5.17	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	318	G	O4'-C1'	-5.17	1.34	1.41
1	N	452	A	P-O5'	-5.17	1.54	1.59
1	N	468	A	C3'-C2'	5.17	1.58	1.52
1	N	603	U	C2'-O2'	5.17	1.48	1.41
1	N	1116	U	C1'-N1	5.17	1.56	1.48
1	N	1181	G	C5-C6	-5.17	1.37	1.42
1	N	1444	U	N1-C2	5.17	1.43	1.38
1	N	168	G	C4'-O4'	-5.17	1.38	1.45
1	N	359	G	C5'-C4'	5.17	1.57	1.51
1	N	1182	G	N7-C5	5.17	1.42	1.39
1	N	74	A	N9-C4	5.17	1.41	1.37
1	N	281	G	C4'-C3'	5.17	1.58	1.53
1	N	287	U	O3'-P	-5.17	1.54	1.61
1	N	737	C	C1'-N1	5.17	1.56	1.48
1	N	1040	U	C4-O4	-5.17	1.19	1.23
1	N	1367	C	C4-N4	5.17	1.38	1.33
1	N	1397	C	N3-C4	5.17	1.37	1.33
1	N	131	A	C2-N3	5.17	1.38	1.33
1	N	279	A	C5'-C4'	5.17	1.57	1.51
1	N	435	A	C5'-C4'	5.17	1.57	1.51
1	N	483	C	P-O5'	-5.17	1.54	1.59
1	N	585	G	C3'-C2'	-5.17	1.47	1.52
1	N	1018	G	C4'-O4'	5.17	1.52	1.45
1	N	1020	G	C4'-C3'	-5.17	1.47	1.52
1	N	1270	G	C3'-O3'	5.17	1.49	1.42
1	N	1350	A	C2-N3	5.17	1.38	1.33
1	N	383	A	C4'-O4'	-5.17	1.38	1.45
1	N	408	A	N3-C4	5.17	1.38	1.34
1	N	592	G	P-O5'	-5.17	1.54	1.59
1	N	909	A	N1-C2	5.17	1.39	1.34
1	N	291	U	N3-C4	5.17	1.43	1.38
1	N	547	A	C6-N1	5.17	1.39	1.35
1	N	554	A	C6-N6	5.17	1.38	1.33
1	N	1215	G	C2-N3	5.17	1.36	1.32
1	N	102	G	C3'-O3'	5.16	1.49	1.42
1	N	148	G	N9-C8	5.16	1.41	1.37
1	N	257	G	C8-N7	5.16	1.34	1.30
1	N	459	A	C6-N1	5.16	1.39	1.35
1	N	744	C	C4-C5	5.16	1.47	1.43
1	N	1231	G	C4'-C3'	5.16	1.58	1.53
1	N	1323	G	C3'-C2'	5.16	1.58	1.52
1	N	39	G	C3'-C2'	-5.16	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	296	U	C3'-C2'	-5.16	1.47	1.52
1	N	1494	G	C3'-C2'	-5.16	1.47	1.52
1	N	160	A	C4'-O4'	-5.16	1.38	1.45
1	N	231	U	N3-C4	5.16	1.43	1.38
1	N	459	A	N7-C5	-5.16	1.36	1.39
1	N	483	C	C2-N3	-5.16	1.31	1.35
1	N	523	A	C5'-C4'	5.16	1.57	1.51
1	N	747	A	C5-C4	5.16	1.42	1.38
1	N	809	G	C4'-C3'	-5.16	1.47	1.52
1	N	910	C	C4-N4	5.16	1.38	1.33
1	N	1000	A	N3-C4	-5.16	1.31	1.34
1	N	1399	C	P-O5'	-5.16	1.54	1.59
1	N	1466	C	C1'-N1	5.16	1.56	1.48
1	N	117	G	P-O5'	-5.16	1.54	1.59
1	N	258	G	C5-C6	-5.16	1.37	1.42
1	N	363	A	C3'-O3'	5.16	1.49	1.42
1	N	419	C	P-O5'	-5.16	1.54	1.59
1	N	529	G	C5-C6	5.16	1.47	1.42
1	N	1357	A	N1-C2	5.16	1.39	1.34
1	N	1433	A	O4'-C1'	5.16	1.48	1.41
1	N	855	U	N1-C6	5.16	1.42	1.38
1	N	1231	G	C6-N1	5.16	1.43	1.39
1	N	62	U	N1-C2	-5.16	1.33	1.38
1	N	831	A	C2'-C1'	-5.16	1.47	1.53
1	N	865	A	N9-C4	-5.16	1.34	1.37
1	N	986	U	C1'-N1	5.16	1.56	1.48
1	N	1029	U	O3'-P	-5.16	1.54	1.61
1	N	1225	A	C1'-N9	5.16	1.56	1.48
1	N	526	C	C3'-C2'	5.15	1.58	1.52
1	N	97	G	C5-C4	5.15	1.42	1.38
1	N	200	G	C8-N7	-5.15	1.27	1.30
1	N	358	U	O3'-P	-5.15	1.54	1.61
1	N	616	G	N7-C5	-5.15	1.36	1.39
1	N	728	A	C8-N7	-5.15	1.27	1.31
1	N	774	G	O3'-P	-5.15	1.54	1.61
1	N	1339	A	N7-C5	-5.15	1.36	1.39
1	N	1508	A	C8-N7	-5.15	1.27	1.31
1	N	682	G	C5-C4	5.15	1.42	1.38
1	N	844	G	C3'-C2'	-5.15	1.47	1.52
1	N	947	G	C6-N1	5.15	1.43	1.39
1	N	1004	A	C5'-C4'	-5.15	1.45	1.51
1	N	1304	G	O3'-P	-5.15	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	1347	G	O3'-P	-5.15	1.54	1.61
1	N	139	A	N9-C8	5.15	1.41	1.37
1	N	708	C	N3-C4	5.15	1.37	1.33
1	N	948	C	C5'-C4'	5.15	1.57	1.51
1	N	1442	G	C4'-C3'	5.15	1.58	1.53
1	N	1502	A	C4'-C3'	5.15	1.58	1.53
1	N	39	G	N1-C2	5.15	1.41	1.37
1	N	158	G	C8-N7	-5.15	1.27	1.30
1	N	813	U	C1'-N1	5.15	1.56	1.48
1	N	910	C	C4'-C3'	5.15	1.58	1.53
1	N	1128	C	C4'-C3'	-5.15	1.47	1.52
1	N	16	A	C4'-O4'	5.14	1.52	1.45
1	N	176	C	C4-C5	5.14	1.47	1.43
1	N	560	A	O3'-P	-5.14	1.54	1.61
1	N	107	G	N3-C4	5.14	1.39	1.35
1	N	466	A	C6-N1	5.14	1.39	1.35
1	N	934	C	N3-C4	5.14	1.37	1.33
1	N	1121	U	O3'-P	-5.14	1.54	1.61
1	N	1175	G	C5'-C4'	-5.14	1.45	1.51
1	N	1333	A	P-O5'	-5.14	1.54	1.59
1	N	250	A	C2'-C1'	-5.14	1.47	1.53
1	N	435	A	C1'-N9	5.14	1.56	1.48
1	N	894	G	C2-N3	5.14	1.36	1.32
1	N	1529	G	N7-C5	5.14	1.42	1.39
1	N	254	G	C2-N2	5.14	1.39	1.34
1	N	807	A	C5-C4	-5.14	1.35	1.38
1	N	1362	A	C3'-O3'	-5.14	1.34	1.42
1	N	1134	G	C6-N1	5.14	1.43	1.39
1	N	1387	G	C8-N7	5.14	1.34	1.30
1	N	1435	G	C8-N7	5.14	1.34	1.30
1	N	1475	G	C3'-O3'	5.14	1.49	1.42
1	N	358	U	C2-N3	5.14	1.41	1.37
1	N	605	U	C2-N3	5.14	1.41	1.37
1	N	876	C	N1-C6	5.14	1.40	1.37
1	N	907	A	C3'-C2'	-5.14	1.47	1.52
1	N	276	G	C2-N2	-5.13	1.29	1.34
1	N	276	G	C6-N1	5.13	1.43	1.39
1	N	444	G	N9-C4	-5.13	1.33	1.38
1	N	753	A	C2'-C1'	5.13	1.58	1.53
1	N	889	A	C5-C6	-5.13	1.36	1.41
1	N	1063	C	C4'-C3'	5.13	1.58	1.53
1	N	693	G	C5'-C4'	5.13	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	39	G	N3-C4	5.13	1.39	1.35
1	N	344	A	C2-N3	5.13	1.38	1.33
1	N	558	G	N9-C4	5.13	1.42	1.38
1	N	567	G	N1-C2	5.13	1.41	1.37
1	N	860	A	N3-C4	5.13	1.38	1.34
1	N	1061	G	C2-N3	-5.13	1.28	1.32
1	N	810	C	O3'-P	5.13	1.67	1.61
1	N	210	C	C1'-N1	5.13	1.56	1.48
1	N	232	G	C6-N1	5.13	1.43	1.39
1	N	245	U	C3'-C2'	-5.13	1.47	1.52
1	N	731	G	P-O5'	-5.13	1.54	1.59
1	N	769	G	C6-O6	5.13	1.28	1.24
1	N	790	A	N1-C2	-5.13	1.29	1.34
1	N	338	A	C6-N1	-5.13	1.31	1.35
1	N	353	A	C6-N6	5.13	1.38	1.33
1	N	480	U	C2-N3	-5.13	1.34	1.37
1	N	492	C	C4-N4	5.13	1.38	1.33
1	N	776	G	N7-C5	-5.13	1.36	1.39
1	N	646	G	N7-C5	-5.12	1.36	1.39
1	N	759	A	C5-C4	5.12	1.42	1.38
1	N	1315	U	C3'-O3'	5.12	1.49	1.42
1	N	1317	C	C2-N3	5.12	1.39	1.35
1	N	80	A	C4'-C3'	5.12	1.58	1.53
1	N	630	A	N7-C5	-5.12	1.36	1.39
1	N	730	G	N3-C4	-5.12	1.31	1.35
1	N	1117	A	C5'-C4'	5.12	1.57	1.51
1	N	120	A	C6-N6	5.12	1.38	1.33
1	N	417	G	N9-C8	5.12	1.41	1.37
1	N	562	U	P-O5'	-5.12	1.54	1.59
1	N	1003	G	C2-N3	5.12	1.36	1.32
1	N	1505	G	C5-C6	-5.12	1.37	1.42
1	N	150	U	C4'-C3'	-5.12	1.47	1.52
1	N	835	U	P-O5'	-5.12	1.54	1.59
1	N	531	U	P-O5'	-5.12	1.54	1.59
1	N	906	A	C2'-C1'	-5.12	1.47	1.53
1	N	1004	A	N3-C4	5.12	1.38	1.34
1	N	326	G	C8-N7	-5.12	1.27	1.30
1	N	809	G	C2-N3	5.12	1.36	1.32
1	N	1511	G	O3'-P	-5.12	1.55	1.61
1	N	353	A	N1-C2	-5.12	1.29	1.34
1	N	444	G	N3-C4	5.12	1.39	1.35
1	N	182	A	C5'-C4'	5.11	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	327	A	C6-N6	5.11	1.38	1.33
1	N	512	U	C2-N3	5.11	1.41	1.37
1	N	1319	A	C3'-O3'	5.11	1.49	1.42
1	N	668	G	C2-N3	5.11	1.36	1.32
1	N	739	C	N1-C2	-5.11	1.35	1.40
1	N	752	G	C5'-C4'	5.11	1.57	1.51
1	N	1005	A	C4'-O4'	-5.11	1.39	1.45
1	N	14	U	N1-C6	5.11	1.42	1.38
1	N	68	G	C2-N3	-5.11	1.28	1.32
1	N	134	G	C3'-C2'	-5.11	1.47	1.52
1	N	157	U	C2-N3	5.11	1.41	1.37
1	N	337	G	N9-C4	5.11	1.42	1.38
1	N	927	G	N7-C5	-5.11	1.36	1.39
1	N	1285	A	C6-N6	5.11	1.38	1.33
1	N	1117	A	N7-C5	5.11	1.42	1.39
1	N	1249	C	C3'-C2'	-5.11	1.47	1.52
1	N	67	C	C1'-N1	5.11	1.56	1.48
1	N	77	A	N3-C4	-5.11	1.31	1.34
1	N	865	A	C1'-N9	5.11	1.56	1.48
1	N	1056	U	O3'-P	5.11	1.67	1.61
1	N	790	A	N9-C4	5.10	1.41	1.37
1	N	1529	G	C6-N1	5.10	1.43	1.39
1	N	3	A	C3'-C2'	5.10	1.58	1.52
1	N	65	A	C3'-C2'	-5.10	1.47	1.52
1	N	350	G	N9-C8	-5.10	1.34	1.37
1	N	629	A	N9-C8	-5.10	1.33	1.37
1	N	785	G	O4'-C1'	5.10	1.48	1.41
1	N	910	C	N1-C6	5.10	1.40	1.37
1	N	245	U	C1'-N1	5.10	1.56	1.48
1	N	693	G	C2-N2	5.10	1.39	1.34
1	N	1253	G	N3-C4	-5.10	1.31	1.35
1	N	1299	A	C3'-C2'	5.10	1.58	1.52
1	N	92	U	P-O5'	-5.10	1.54	1.59
1	N	346	G	C3'-O3'	5.10	1.49	1.42
1	N	473	U	C5'-C4'	5.10	1.57	1.51
1	N	539	A	N9-C8	5.10	1.41	1.37
1	N	772	U	O3'-P	-5.10	1.55	1.61
1	N	849	G	C6-O6	5.10	1.28	1.24
1	N	886	G	C5-C6	-5.10	1.37	1.42
1	N	993	G	C8-N7	-5.10	1.27	1.30
1	N	1063	C	N1-C6	5.10	1.40	1.37
1	N	1374	A	N3-C4	5.10	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	515	G	P-O5'	-5.10	1.54	1.59
1	N	520	A	O3'-P	-5.10	1.55	1.61
1	N	914	A	C2-N3	5.10	1.38	1.33
1	N	1170	A	N9-C4	5.10	1.41	1.37
1	N	112	G	C6-N1	5.10	1.43	1.39
1	N	130	A	C3'-C2'	5.10	1.58	1.52
1	N	1139	G	C2-N2	-5.10	1.29	1.34
1	N	73	C	C4-C5	-5.09	1.38	1.43
1	N	84	U	P-O5'	-5.09	1.54	1.59
1	N	905	U	C2-N3	5.09	1.41	1.37
1	N	930	C	C1'-N1	-5.09	1.39	1.46
1	N	227	G	C3'-O3'	5.09	1.49	1.42
1	N	587	G	N9-C8	5.09	1.41	1.37
1	N	462	G	C2-N3	5.09	1.36	1.32
1	N	1087	G	N1-C2	5.09	1.41	1.37
1	N	1178	G	N9-C8	5.09	1.41	1.37
1	N	1258	G	C5-C4	5.09	1.42	1.38
1	N	1491	G	P-O5'	-5.09	1.54	1.59
1	N	1508	A	C4'-C3'	-5.09	1.47	1.52
1	N	32	A	N3-C4	5.09	1.38	1.34
1	N	49	U	C2-O2	-5.09	1.17	1.22
1	N	85	U	C4-O4	5.09	1.27	1.23
1	N	257	G	C5-C6	5.09	1.47	1.42
1	N	457	G	C5'-C4'	5.09	1.57	1.51
1	N	1027	C	C1'-N1	5.09	1.56	1.48
1	N	2	A	C5-C4	-5.09	1.35	1.38
1	N	827	U	C4-C5	-5.09	1.39	1.43
1	N	42	G	C2'-C1'	-5.09	1.47	1.53
1	N	1385	G	C6-O6	-5.09	1.19	1.24
1	N	1494	G	C3'-O3'	5.09	1.49	1.42
1	N	125	U	C1'-N1	5.08	1.56	1.48
1	N	785	G	C1'-N9	5.08	1.56	1.48
1	N	1240	U	O4'-C1'	5.08	1.48	1.41
1	N	142	G	N9-C8	-5.08	1.34	1.37
1	N	253	A	N3-C4	-5.08	1.31	1.34
1	N	710	G	N1-C2	5.08	1.41	1.37
1	N	875	U	P-O5'	-5.08	1.54	1.59
1	N	1166	G	C6-N1	5.08	1.43	1.39
1	N	1387	G	N9-C4	5.08	1.42	1.38
1	N	181	A	C6-N1	5.08	1.39	1.35
1	N	533	A	P-O5'	-5.08	1.54	1.59
1	N	1222	G	C2-N3	5.08	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	75	G	N7-C5	-5.08	1.36	1.39
1	N	276	G	C5-C4	-5.08	1.34	1.38
1	N	1175	G	C3'-O3'	5.08	1.49	1.42
1	N	698	G	C5-C6	-5.08	1.37	1.42
1	N	812	G	C4'-O4'	5.08	1.52	1.45
1	N	949	A	O3'-P	-5.08	1.55	1.61
1	N	1321	U	C2-O2	5.08	1.26	1.22
1	N	320	A	C6-N6	5.08	1.38	1.33
1	N	366	A	C8-N7	-5.08	1.27	1.31
1	N	1015	G	C6-O6	-5.08	1.19	1.24
1	N	1221	G	C5-C4	5.08	1.42	1.38
1	N	1241	G	C5'-C4'	5.08	1.57	1.51
1	N	3	A	N3-C4	5.07	1.37	1.34
1	N	431	A	C3'-O3'	5.07	1.49	1.42
1	N	652	U	C4'-O4'	-5.07	1.39	1.45
1	N	694	A	O4'-C1'	5.07	1.48	1.41
1	N	721	G	C2'-C1'	-5.07	1.47	1.53
1	N	853	C	C1'-N1	5.07	1.56	1.48
1	N	546	A	N7-C5	-5.07	1.36	1.39
1	N	713	G	N9-C8	5.07	1.41	1.37
1	N	1012	A	C5'-C4'	5.07	1.57	1.51
1	N	1408	A	C6-N1	5.07	1.39	1.35
1	N	1196	A	C5'-C4'	5.07	1.57	1.51
1	N	1272	G	N7-C5	5.07	1.42	1.39
1	N	1375	A	C2-N3	5.07	1.38	1.33
1	N	1381	U	C2'-C1'	-5.07	1.47	1.53
1	N	874	G	C4'-O4'	5.07	1.52	1.45
1	N	932	C	O3'-P	-5.07	1.55	1.61
1	N	34	C	C5-C6	5.07	1.38	1.34
1	N	124	C	C4-N4	5.07	1.38	1.33
1	N	257	G	C5-C4	-5.07	1.34	1.38
1	N	263	A	C3'-C2'	-5.07	1.47	1.52
1	N	1374	A	C6-N6	5.07	1.38	1.33
1	N	580	C	C4'-C3'	5.07	1.58	1.53
1	N	691	G	P-O5'	-5.07	1.54	1.59
1	N	885	G	N7-C5	-5.07	1.36	1.39
1	N	993	G	N7-C5	5.07	1.42	1.39
1	N	1077	G	N7-C5	-5.07	1.36	1.39
1	N	1247	U	C2-N3	5.07	1.41	1.37
1	N	1254	A	C5'-C4'	5.07	1.57	1.51
1	N	1415	G	C5-C4	5.07	1.41	1.38
1	N	120	A	C5-C4	5.06	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	281	G	C5-C6	5.06	1.47	1.42
1	N	600	A	P-O5'	-5.06	1.54	1.59
1	N	947	G	N3-C4	5.06	1.39	1.35
1	N	64	G	C5-C4	5.06	1.41	1.38
1	N	1068	G	C2-N3	5.06	1.36	1.32
1	N	288	A	C8-N7	-5.06	1.28	1.31
1	N	1016	A	C5-C4	5.06	1.42	1.38
1	N	1105	A	C5-C4	5.06	1.42	1.38
1	N	216	U	C5-C6	5.06	1.38	1.34
1	N	288	A	C1'-N9	5.06	1.56	1.48
1	N	697	U	P-O5'	-5.06	1.54	1.59
1	N	752	G	N7-C5	-5.06	1.36	1.39
1	N	1215	G	N9-C8	-5.06	1.34	1.37
1	N	1238	A	P-O5'	5.06	1.64	1.59
1	N	1249	C	N1-C6	-5.06	1.34	1.37
1	N	246	A	O4'-C1'	5.06	1.48	1.41
1	N	946	A	C3'-C2'	5.06	1.58	1.52
1	N	36	C	C2-O2	5.05	1.28	1.24
1	N	243	A	C5-C4	5.05	1.42	1.38
1	N	1036	A	O4'-C1'	5.05	1.48	1.41
1	N	1335	U	C3'-O3'	5.05	1.49	1.42
1	N	805	C	C5-C6	-5.05	1.30	1.34
1	N	73	C	C5-C6	-5.05	1.30	1.34
1	N	210	C	C4'-O4'	5.05	1.52	1.45
1	N	740	U	C2'-C1'	-5.05	1.47	1.53
1	N	761	G	O4'-C1'	5.05	1.48	1.41
1	N	776	G	C5-C4	5.05	1.41	1.38
1	N	1034	G	N3-C4	5.05	1.39	1.35
1	N	1066	C	O3'-P	-5.05	1.55	1.61
1	N	739	C	N3-C4	5.05	1.37	1.33
1	N	1085	U	N3-C4	-5.05	1.33	1.38
1	N	1350	A	C3'-C2'	-5.05	1.47	1.52
1	N	148	G	C5-C6	-5.05	1.37	1.42
1	N	745	G	N3-C4	5.05	1.39	1.35
1	N	764	C	C4-C5	5.05	1.47	1.43
1	N	1018	G	C6-O6	-5.05	1.19	1.24
1	N	846	G	N1-C2	5.05	1.41	1.37
1	N	861	G	N1-C2	5.05	1.41	1.37
1	N	1059	C	C4'-O4'	5.05	1.52	1.45
1	N	1141	C	C4-N4	5.05	1.38	1.33
1	N	86	G	C5-C6	-5.04	1.37	1.42
1	N	351	G	C8-N7	-5.04	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	536	C	C2'-C1'	-5.04	1.47	1.53
1	N	545	C	N1-C6	5.04	1.40	1.37
1	N	832	G	N1-C2	5.04	1.41	1.37
1	N	867	G	P-O5'	-5.04	1.54	1.59
1	N	1173	U	C1'-N1	5.04	1.56	1.48
1	N	572	A	O3'-P	-5.04	1.55	1.61
1	N	836	G	C5-C6	-5.04	1.37	1.42
1	N	1016	A	N3-C4	-5.04	1.31	1.34
1	N	267	C	O3'-P	-5.04	1.55	1.61
1	N	933	G	N9-C8	-5.04	1.34	1.37
1	N	1038	C	C1'-N1	5.04	1.56	1.48
1	N	1166	G	N7-C5	-5.04	1.36	1.39
1	N	406	G	C2'-O2'	-5.04	1.35	1.41
1	N	571	U	C3'-O3'	5.04	1.49	1.42
1	N	1456	A	O3'-P	-5.04	1.55	1.61
1	N	260	G	N7-C5	-5.04	1.36	1.39
1	N	532	A	N3-C4	5.04	1.37	1.34
1	N	1077	G	C6-N1	5.04	1.43	1.39
1	N	263	A	C5'-C4'	5.04	1.57	1.51
1	N	433	G	C3'-C2'	-5.04	1.47	1.52
1	N	592	G	C6-N1	5.04	1.43	1.39
1	N	719	C	O4'-C1'	5.04	1.48	1.41
1	N	877	G	C3'-C2'	5.04	1.58	1.52
1	N	924	C	C5'-C4'	5.04	1.57	1.51
1	N	989	U	C1'-N1	5.04	1.56	1.48
1	N	1010	U	C4-O4	5.03	1.27	1.23
1	N	1311	A	N7-C5	-5.03	1.36	1.39
1	N	64	G	C6-N1	5.03	1.43	1.39
1	N	72	A	C2'-C1'	5.03	1.58	1.53
1	N	714	G	C8-N7	5.03	1.33	1.30
1	N	1120	C	C2'-C1'	-5.03	1.47	1.53
1	N	139	A	C2-N3	5.03	1.38	1.33
1	N	464	U	N3-C4	-5.03	1.33	1.38
1	N	1343	G	N9-C4	-5.03	1.33	1.38
1	N	685	G	C8-N7	-5.03	1.27	1.30
1	N	692	U	C5-C6	-5.03	1.29	1.34
1	N	1216	A	C5'-C4'	5.03	1.57	1.51
1	N	1404	C	C4'-O4'	5.03	1.52	1.45
1	N	204	G	C2-N3	5.03	1.36	1.32
1	N	790	A	C2'-O2'	5.03	1.48	1.41
1	N	1002	G	C8-N7	5.03	1.33	1.30
1	N	1292	G	C5'-C4'	5.03	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	35	G	C2-N3	5.03	1.36	1.32
1	N	446	G	C2'-C1'	-5.03	1.47	1.53
1	N	488	C	O4'-C1'	5.03	1.48	1.41
1	N	846	G	C2'-C1'	-5.02	1.47	1.53
1	N	234	C	O4'-C1'	5.02	1.48	1.41
1	N	637	C	N1-C6	5.02	1.40	1.37
1	N	748	G	C5'-C4'	5.02	1.57	1.51
1	N	991	U	C2-O2	5.02	1.26	1.22
1	N	1082	A	C6-N6	5.02	1.38	1.33
1	N	1278	G	C6-N1	-5.02	1.36	1.39
1	N	792	A	C4'-C3'	5.02	1.58	1.53
1	N	1094	G	C2-N2	5.02	1.39	1.34
1	N	94	G	C5'-C4'	5.02	1.57	1.51
1	N	692	U	C5'-C4'	5.02	1.57	1.51
1	N	1045	C	C5'-C4'	5.02	1.57	1.51
1	N	1119	C	C3'-O3'	5.02	1.49	1.42
1	N	933	G	C3'-O3'	5.02	1.49	1.42
1	N	1248	A	C6-N1	5.02	1.39	1.35
1	N	1355	G	N9-C4	-5.02	1.33	1.38
1	N	495	A	N9-C4	-5.02	1.34	1.37
1	N	1392	G	N9-C4	5.02	1.42	1.38
1	N	322	C	C5'-C4'	5.01	1.57	1.51
1	N	574	A	P-O5'	-5.01	1.54	1.59
1	N	1048	G	C6-O6	-5.01	1.19	1.24
1	N	1389	C	C1'-N1	5.01	1.56	1.48
1	N	1431	A	N9-C4	-5.01	1.34	1.37
1	N	80	A	C5'-C4'	5.01	1.57	1.51
1	N	692	U	N3-C4	5.01	1.43	1.38
1	N	391	G	C5-C6	-5.01	1.37	1.42
1	N	406	G	N9-C4	5.01	1.42	1.38
1	N	521	G	N3-C4	-5.01	1.31	1.35
1	N	1033	G	C3'-C2'	5.01	1.58	1.52
1	N	1108	G	C2'-C1'	-5.01	1.47	1.53
1	N	1206	G	N9-C4	5.01	1.42	1.38
1	N	1451	U	P-O5'	5.01	1.64	1.59
1	N	703	G	C5-C4	5.01	1.41	1.38
1	N	1252	A	C4'-C3'	5.01	1.58	1.53
1	N	1369	C	C2'-O2'	5.01	1.48	1.41
1	N	1480	A	N9-C4	-5.01	1.34	1.37
1	N	986	U	C2-N3	5.01	1.41	1.37
1	N	1372	U	C4'-C3'	5.01	1.58	1.53
1	N	1439	G	N7-C5	5.01	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	335	C	O3'-P	-5.00	1.55	1.61
1	N	1008	U	C2-N3	5.00	1.41	1.37
1	N	1472	U	C4'-C3'	5.00	1.58	1.53
1	N	197	A	N9-C8	5.00	1.41	1.37
1	N	497	G	C2-N2	5.00	1.39	1.34
1	N	974	A	C8-N7	-5.00	1.28	1.31
1	N	1062	U	N1-C2	-5.00	1.34	1.38
1	N	1271	A	N9-C8	5.00	1.41	1.37
1	N	1435	G	N1-C2	5.00	1.41	1.37

All (9337) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1399	C	P-O3'-C3'	28.06	153.38	119.70
1	N	913	A	P-O3'-C3'	27.42	152.60	119.70
1	N	168	G	N1-C6-O6	27.05	136.13	119.90
1	N	1157	A	N1-C6-N6	26.02	134.21	118.60
1	N	168	G	C5-C6-O6	-25.86	113.09	128.60
1	N	50	A	N1-C6-N6	25.78	134.07	118.60
1	N	780	A	N1-C6-N6	25.11	133.66	118.60
1	N	130	A	N1-C6-N6	24.91	133.55	118.60
1	N	1363	A	N1-C6-N6	24.08	133.05	118.60
1	N	1032	G	C5-C6-O6	-23.95	114.23	128.60
1	N	378	G	C5-C6-O6	-23.79	114.32	128.60
1	N	1416	G	N1-C6-O6	23.73	134.14	119.90
1	N	1431	A	N1-C6-N6	23.54	132.72	118.60
1	N	1000	A	N1-C6-N6	23.50	132.70	118.60
1	N	120	A	N1-C6-N6	23.37	132.62	118.60
1	N	1044	A	N1-C6-N6	23.13	132.48	118.60
1	N	683	G	N1-C6-O6	22.47	133.38	119.90
1	N	350	G	C5-C6-O6	-22.36	115.18	128.60
1	N	47	C	P-O3'-C3'	22.12	146.24	119.70
1	N	350	G	N1-C6-O6	22.00	133.10	119.90
1	N	73	C	C6-N1-C2	-21.86	111.56	120.30
1	N	1362	A	P-O3'-C3'	21.71	145.76	119.70
1	N	397	A	N1-C6-N6	21.69	131.61	118.60
1	N	747	A	N1-C6-N6	21.47	131.48	118.60
1	N	1150	A	N1-C6-N6	21.41	131.45	118.60
1	N	1290	G	N1-C6-O6	21.36	132.71	119.90
1	N	829	G	N1-C6-O6	21.34	132.70	119.90
1	N	1197	A	N1-C6-N6	21.32	131.40	118.60
1	N	1225	A	N1-C6-N6	21.13	131.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	69	G	N1-C6-O6	21.13	132.58	119.90
1	N	559	A	N1-C6-N6	21.07	131.24	118.60
1	N	728	A	N1-C6-N6	20.68	131.01	118.60
1	N	302	G	N1-C6-O6	20.67	132.30	119.90
1	N	378	G	N1-C6-O6	20.66	132.30	119.90
1	N	210	C	P-O3'-C3'	20.64	144.46	119.70
1	N	607	A	N1-C6-N6	20.63	130.97	118.60
1	N	19	A	N1-C6-N6	20.61	130.96	118.60
1	N	1458	G	N1-C6-O6	20.59	132.25	119.90
1	N	1493	A	N1-C6-N6	20.58	130.95	118.60
1	N	258	G	N1-C6-O6	20.57	132.24	119.90
1	N	1290	G	C5-C6-O6	-20.42	116.35	128.60
1	N	639	G	N1-C6-O6	20.34	132.10	119.90
1	N	899	C	C6-N1-C2	-20.26	112.19	120.30
1	N	286	C	C6-N1-C2	-20.24	112.20	120.30
1	N	1251	A	N1-C6-N6	20.23	130.74	118.60
1	N	542	G	N1-C6-O6	20.23	132.04	119.90
1	N	1360	A	N1-C6-N6	20.02	130.61	118.60
1	N	1465	A	N1-C6-N6	19.99	130.59	118.60
1	N	683	G	C5-C6-O6	-19.98	116.61	128.60
1	N	951	G	N1-C6-O6	19.93	131.86	119.90
1	N	696	A	N1-C6-N6	19.85	130.51	118.60
1	N	1357	A	N1-C6-N6	19.82	130.50	118.60
1	N	1312	G	C5-C6-O6	-19.79	116.72	128.60
1	N	812	G	P-O3'-C3'	19.73	143.37	119.70
1	N	1416	G	C5-C6-O6	-19.67	116.80	128.60
1	N	500	G	N1-C6-O6	19.66	131.69	119.90
1	N	1306	A	N1-C6-N6	19.63	130.38	118.60
1	N	1465	A	C5-C6-N1	-19.63	107.89	117.70
1	N	761	G	C5-C6-O6	-19.51	116.89	128.60
1	N	1270	G	N1-C6-O6	19.45	131.57	119.90
1	N	466	A	N1-C6-N6	19.45	130.27	118.60
1	N	761	G	N1-C6-O6	19.45	131.57	119.90
1	N	633	G	C5-C6-O6	-19.33	117.00	128.60
1	N	832	G	C6-N1-C2	-19.31	113.51	125.10
1	N	199	A	N1-C6-N6	19.24	130.15	118.60
1	N	1061	G	N1-C6-O6	19.20	131.42	119.90
1	N	1128	C	P-O5'-C5'	19.17	151.57	120.90
1	N	1503	A	N1-C6-N6	19.16	130.09	118.60
1	N	914	A	N1-C6-N6	19.14	130.08	118.60
1	N	1488	G	N1-C6-O6	19.14	131.38	119.90
1	N	303	A	N1-C6-N6	19.11	130.07	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1363	A	C5-C6-N1	-19.07	108.16	117.70
1	N	155	A	N1-C6-N6	19.04	130.03	118.60
1	N	117	G	N1-C6-O6	19.04	131.32	119.90
1	N	805	C	N3-C4-C5	-18.96	114.31	121.90
1	N	1422	G	N1-C6-O6	18.91	131.25	119.90
1	N	1201	A	P-O3'-C3'	18.87	142.35	119.70
1	N	1035	A	N1-C6-N6	18.85	129.91	118.60
1	N	1282	C	C6-N1-C2	-18.84	112.76	120.30
1	N	336	A	N1-C6-N6	18.78	129.87	118.60
1	N	1285	A	P-O3'-C3'	18.75	142.20	119.70
1	N	491	G	N1-C6-O6	18.75	131.15	119.90
1	N	1511	G	N1-C6-O6	18.74	131.14	119.90
1	N	1022	A	N1-C6-N6	18.73	129.84	118.60
1	N	918	A	N1-C6-N6	18.72	129.83	118.60
1	N	1312	G	N1-C6-O6	18.54	131.03	119.90
1	N	1207	G	N1-C6-O6	18.48	130.99	119.90
1	N	576	C	N3-C4-C5	-18.34	114.56	121.90
1	N	94	G	P-O3'-C3'	18.33	141.70	119.70
1	N	977	A	N1-C6-N6	18.31	129.59	118.60
1	N	712	A	N1-C6-N6	18.22	129.53	118.60
1	N	781	A	N1-C6-N6	18.22	129.53	118.60
1	N	1046	A	N1-C6-N6	18.15	129.49	118.60
1	N	938	A	N1-C6-N6	18.04	129.42	118.60
1	N	1181	G	N1-C6-O6	18.03	130.72	119.90
1	N	1529	G	P-O3'-C3'	18.01	141.31	119.70
1	N	1006	G	N1-C2-N3	-18.00	113.10	123.90
1	N	143	A	C5-C6-N1	-18.00	108.70	117.70
1	N	11	G	N1-C6-O6	17.96	130.68	119.90
1	N	675	A	N1-C6-N6	17.96	129.37	118.60
1	N	270	A	N1-C6-N6	17.95	129.37	118.60
1	N	773	G	N1-C6-O6	17.93	130.66	119.90
1	N	328	C	N3-C4-C5	-17.88	114.75	121.90
1	N	456	A	N1-C6-N6	17.87	129.32	118.60
1	N	776	G	P-O5'-C5'	17.87	149.49	120.90
1	N	729	A	N1-C6-N6	17.87	129.32	118.60
1	N	923	A	N1-C6-N6	17.82	129.29	118.60
1	N	1431	A	C5-C6-N6	-17.80	109.46	123.70
1	N	1318	A	N1-C6-N6	17.73	129.24	118.60
1	N	621	A	N1-C6-N6	17.71	129.23	118.60
1	N	202	G	N1-C6-O6	17.68	130.51	119.90
1	N	694	A	N1-C6-N6	17.68	129.21	118.60
1	N	1042	A	N1-C6-N6	17.66	129.20	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	838	G	N1-C6-O6	17.65	130.49	119.90
1	N	901	A	N1-C6-N6	17.61	129.16	118.60
1	N	1407	C	N3-C4-C5	-17.61	114.86	121.90
1	N	838	G	C5-C6-O6	-17.60	118.04	128.60
1	N	563	A	N1-C6-N6	17.57	129.14	118.60
1	N	412	A	N1-C6-N6	17.56	129.13	118.60
1	N	1377	A	N1-C6-N6	17.53	129.12	118.60
1	N	1204	A	N1-C6-N6	17.53	129.12	118.60
1	N	548	G	C5-C6-O6	-17.50	118.10	128.60
1	N	174	A	N1-C6-N6	17.46	129.08	118.60
1	N	308	C	N3-C4-C5	-17.45	114.92	121.90
1	N	939	G	N1-C6-O6	17.45	130.37	119.90
1	N	1488	G	C5-C6-O6	-17.38	118.17	128.60
1	N	959	A	N1-C6-N6	17.35	129.01	118.60
1	N	687	A	N1-C6-N6	17.31	128.99	118.60
1	N	116	A	N1-C6-N6	17.30	128.98	118.60
1	N	32	A	N1-C6-N6	17.12	128.87	118.60
1	N	1130	A	N1-C6-N6	17.11	128.86	118.60
1	N	1175	G	N1-C6-O6	17.10	130.16	119.90
1	N	212	G	N1-C6-O6	17.09	130.15	119.90
1	N	223	A	N1-C6-N6	17.05	128.83	118.60
1	N	1328	C	C6-N1-C2	-17.04	113.48	120.30
1	N	65	A	N1-C6-N6	17.02	128.81	118.60
1	N	1300	G	N1-C6-O6	17.01	130.10	119.90
1	N	1311	A	N1-C6-N6	16.98	128.79	118.60
1	N	65	A	O4'-C1'-N9	16.96	121.77	108.20
1	N	141	G	C5-C6-O6	-16.95	118.43	128.60
1	N	639	G	C5-C6-O6	-16.90	118.46	128.60
1	N	253	A	N1-C6-N6	16.90	128.74	118.60
1	N	810	C	N3-C4-C5	-16.85	115.16	121.90
1	N	893	C	N3-C4-C5	-16.80	115.18	121.90
1	N	944	G	C5-C6-O6	-16.77	118.53	128.60
1	N	809	G	N1-C6-O6	16.76	129.96	119.90
1	N	50	A	C5-C6-N1	-16.75	109.32	117.70
1	N	1265	C	O4'-C1'-N1	16.73	121.58	108.20
1	N	559	A	P-O3'-C3'	16.70	139.74	119.70
1	N	1399	C	N3-C4-C5	-16.68	115.23	121.90
1	N	774	G	N1-C6-O6	16.68	129.91	119.90
1	N	647	C	N3-C4-C5	-16.64	115.24	121.90
1	N	1300	G	C5-C6-O6	-16.60	118.64	128.60
1	N	448	A	N1-C6-N6	16.58	128.55	118.60
1	N	846	G	C5-C6-O6	-16.55	118.67	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	929	G	N1-C6-O6	16.55	129.83	119.90
1	N	633	G	N1-C6-O6	16.54	129.83	119.90
1	N	143	A	C4-C5-C6	16.53	125.27	117.00
1	N	908	A	N1-C6-N6	16.53	128.52	118.60
1	N	567	G	C5-C6-O6	-16.52	118.69	128.60
1	N	308	C	N3-C4-N4	16.49	129.54	118.00
1	N	119	A	P-O3'-C3'	16.48	139.47	119.70
1	N	1236	A	N1-C6-N6	16.46	128.48	118.60
1	N	48	C	N3-C4-N4	16.46	129.52	118.00
1	N	1337	G	C5-C6-O6	-16.43	118.74	128.60
1	N	1261	A	N1-C6-N6	16.43	128.46	118.60
1	N	1223	C	C6-N1-C2	-16.40	113.74	120.30
1	N	846	G	N1-C6-O6	16.38	129.73	119.90
1	N	258	G	C5-C6-O6	-16.37	118.78	128.60
1	N	1241	G	N1-C6-O6	16.37	129.72	119.90
1	N	147	G	N1-C6-O6	16.36	129.72	119.90
1	N	578	C	N3-C4-C5	-16.34	115.37	121.90
1	N	1032	G	N1-C6-O6	16.31	129.69	119.90
1	N	1408	A	N1-C6-N6	16.31	128.39	118.60
1	N	438	U	P-O3'-C3'	16.28	139.24	119.70
1	N	547	A	N1-C6-N6	16.23	128.34	118.60
1	N	74	A	N1-C6-N6	16.23	128.34	118.60
1	N	595	A	C4-C5-C6	16.23	125.11	117.00
1	N	1530	G	P-O3'-C3'	16.22	139.16	119.70
1	N	61	G	N1-C6-O6	16.22	129.63	119.90
1	N	1465	A	C4-C5-C6	16.21	125.11	117.00
1	N	576	C	C2-N3-C4	16.20	128.00	119.90
1	N	1439	G	N1-C6-O6	16.20	129.62	119.90
1	N	281	G	N1-C6-O6	16.19	129.61	119.90
1	N	1206	G	N1-C6-O6	16.18	129.61	119.90
1	N	223	A	C5-C6-N1	-16.14	109.63	117.70
1	N	1002	G	N1-C6-O6	16.14	129.58	119.90
1	N	1534	A	N1-C6-N6	16.14	128.28	118.60
1	N	1151	A	N1-C6-N6	16.10	128.26	118.60
1	N	451	A	N1-C6-N6	16.09	128.26	118.60
1	N	1434	A	N1-C6-N6	16.09	128.25	118.60
1	N	520	A	N1-C6-N6	16.08	128.25	118.60
1	N	1412	C	O4'-C1'-N1	16.07	121.06	108.20
1	N	321	A	C5-C6-N1	-16.05	109.68	117.70
1	N	539	A	N1-C6-N6	16.02	128.21	118.60
1	N	1270	G	C5-C6-O6	-16.02	118.99	128.60
1	N	1124	G	N1-C6-O6	16.02	129.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1000	A	C4-C5-C6	16.00	125.00	117.00
1	N	1156	G	N1-C6-O6	15.99	129.49	119.90
1	N	1256	A	N1-C6-N6	15.98	128.19	118.60
1	N	1285	A	C4-C5-C6	15.98	124.99	117.00
1	N	262	A	N1-C6-N6	15.92	128.15	118.60
1	N	535	A	N1-C2-N3	15.88	137.24	129.30
1	N	500	G	C5-C6-O6	-15.84	119.10	128.60
1	N	860	A	C5-C6-N1	-15.84	109.78	117.70
1	N	1207	G	C5-C6-O6	-15.84	119.10	128.60
1	N	481	G	C5-C6-O6	-15.82	119.11	128.60
1	N	1517	G	C4-C5-N7	15.81	117.13	110.80
1	N	198	G	C3'-C2'-C1'	15.78	114.13	101.50
1	N	117	G	C5-C6-O6	-15.78	119.13	128.60
1	N	939	G	C5-C6-O6	-15.78	119.13	128.60
1	N	1246	A	N1-C6-N6	15.78	128.06	118.60
1	N	532	A	C5-C6-N1	-15.76	109.82	117.70
1	N	572	A	N1-C6-N6	15.75	128.05	118.60
1	N	1101	A	P-O3'-C3'	15.73	138.58	119.70
1	N	1503	A	C5-C6-N1	-15.73	109.83	117.70
1	N	1413	A	N1-C6-N6	15.71	128.03	118.60
1	N	397	A	C5-C6-N6	-15.69	111.15	123.70
1	N	695	A	C5-C6-N1	-15.64	109.88	117.70
1	N	104	G	C5-C6-O6	-15.63	119.22	128.60
1	N	1064	G	N1-C6-O6	15.62	129.27	119.90
1	N	746	A	N1-C6-N6	15.61	127.97	118.60
1	N	513	C	C6-N1-C2	-15.61	114.06	120.30
1	N	780	A	C5-C6-N6	-15.60	111.22	123.70
1	N	807	A	N1-C6-N6	15.60	127.96	118.60
1	N	240	G	N1-C6-O6	15.60	129.26	119.90
1	N	164	G	N1-C6-O6	15.60	129.26	119.90
1	N	888	G	C5-C6-O6	-15.59	119.25	128.60
1	N	1337	G	N1-C6-O6	15.59	129.25	119.90
1	N	428	G	P-O3'-C3'	15.59	138.40	119.70
1	N	336	A	C5-C6-N1	-15.57	109.92	117.70
1	N	380	G	C5-C6-O6	-15.53	119.28	128.60
1	N	552	U	C5-C4-O4	-15.52	116.59	125.90
1	N	1285	A	N1-C6-N6	15.46	127.88	118.60
1	N	419	C	C6-N1-C2	-15.45	114.12	120.30
1	N	851	G	N1-C6-O6	15.43	129.16	119.90
1	N	575	G	P-O3'-C3'	15.42	138.21	119.70
1	N	451	A	P-O3'-C3'	15.42	138.20	119.70
1	N	742	G	N1-C6-O6	15.39	129.14	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	120	A	C5-C6-N6	-15.37	111.40	123.70
1	N	1331	G	P-O3'-C3'	15.36	138.14	119.70
1	N	1419	G	N1-C6-O6	15.36	129.12	119.90
1	N	1502	A	P-O3'-C3'	15.35	138.12	119.70
1	N	630	A	N1-C6-N6	15.35	127.81	118.60
1	N	1494	G	N1-C6-O6	15.35	129.11	119.90
1	N	293	G	N1-C6-O6	15.34	129.10	119.90
1	N	724	G	N1-C6-O6	15.32	129.09	119.90
1	N	777	A	N1-C6-N6	15.31	127.79	118.60
1	N	104	G	N1-C6-O6	15.29	129.07	119.90
1	N	213	G	N1-C6-O6	15.28	129.07	119.90
1	N	364	A	N7-C8-N9	-15.27	106.16	113.80
1	N	938	A	C5-C6-N6	-15.27	111.49	123.70
1	N	1493	A	C5-C6-N6	-15.27	111.49	123.70
1	N	833	G	C5-C6-O6	-15.26	119.44	128.60
1	N	281	G	C5-C6-O6	-15.25	119.45	128.60
1	N	484	G	P-O3'-C3'	15.25	138.00	119.70
1	N	457	G	N1-C6-O6	15.24	129.05	119.90
1	N	1231	G	C5-C6-O6	-15.24	119.45	128.60
1	N	1098	C	C6-N1-C2	-15.24	114.20	120.30
1	N	352	C	N3-C4-N4	15.23	128.66	118.00
1	N	990	C	N3-C4-C5	-15.21	115.82	121.90
1	N	55	A	N1-C6-N6	15.18	127.71	118.60
1	N	519	C	O4'-C1'-N1	15.18	120.34	108.20
1	N	91	U	O4'-C1'-N1	15.17	120.34	108.20
1	N	547	A	P-O3'-C3'	15.17	137.91	119.70
1	N	556	C	N3-C4-C5	-15.14	115.84	121.90
1	N	384	G	N1-C6-O6	15.14	128.99	119.90
1	N	1367	C	N3-C4-N4	15.13	128.59	118.00
1	N	865	A	N1-C6-N6	15.11	127.67	118.60
1	N	542	G	C5-C6-O6	-15.10	119.54	128.60
1	N	555	U	P-O3'-C3'	15.10	137.82	119.70
1	N	1457	G	C5-C6-O6	-15.10	119.54	128.60
1	N	200	G	C5-C6-O6	-15.09	119.54	128.60
1	N	191	G	N1-C6-O6	15.08	128.95	119.90
1	N	1309	G	C5-C6-O6	-15.08	119.55	128.60
1	N	532	A	N1-C6-N6	15.07	127.64	118.60
1	N	1458	G	C5-C6-O6	-15.07	119.56	128.60
1	N	1512	U	O4'-C1'-N1	15.07	120.25	108.20
1	N	165	G	N1-C6-O6	15.06	128.94	119.90
1	N	904	U	C5-C6-N1	15.06	130.23	122.70
1	N	716	A	N1-C6-N6	15.05	127.63	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	366	A	N1-C6-N6	15.05	127.63	118.60
1	N	274	A	N1-C6-N6	15.02	127.61	118.60
1	N	130	A	C5-C6-N6	-15.01	111.69	123.70
1	N	1000	A	C5-C6-N1	-14.97	110.21	117.70
1	N	158	G	C5-C6-O6	-14.97	119.62	128.60
1	N	1299	A	N1-C6-N6	14.97	127.58	118.60
1	N	654	G	N1-C6-O6	14.97	128.88	119.90
1	N	288	A	N1-C6-N6	14.94	127.57	118.60
1	N	1121	U	O4'-C1'-N1	14.93	120.15	108.20
1	N	1077	G	C5-C6-O6	-14.92	119.65	128.60
1	N	689	C	N3-C4-N4	14.91	128.44	118.00
1	N	493	A	N1-C6-N6	14.90	127.54	118.60
1	N	721	G	C5-C6-O6	-14.90	119.66	128.60
1	N	504	C	N3-C4-C5	-14.88	115.95	121.90
1	N	3	A	N1-C6-N6	14.87	127.52	118.60
1	N	532	A	P-O3'-C3'	14.86	137.53	119.70
1	N	847	G	N1-C6-O6	14.85	128.81	119.90
1	N	491	G	C5-C6-O6	-14.83	119.70	128.60
1	N	1196	A	N1-C6-N6	14.82	127.49	118.60
1	N	623	C	O4'-C1'-N1	14.82	120.05	108.20
1	N	711	G	O4'-C1'-N9	14.81	120.05	108.20
1	N	1191	A	N1-C6-N6	14.81	127.48	118.60
1	N	1394	A	N1-C6-N6	14.77	127.46	118.60
1	N	695	A	C4-C5-C6	14.77	124.38	117.00
1	N	833	G	N1-C6-O6	14.77	128.76	119.90
1	N	228	A	N1-C6-N6	14.76	127.45	118.60
1	N	976	G	C5-C6-O6	-14.76	119.75	128.60
1	N	344	A	N1-C6-N6	14.75	127.45	118.60
1	N	183	C	P-O3'-C3'	14.74	137.39	119.70
1	N	63	C	N3-C4-N4	14.73	128.31	118.00
1	N	1514	G	N1-C6-O6	14.71	128.73	119.90
1	N	978	A	N1-C6-N6	14.70	127.42	118.60
1	N	606	G	N1-C6-O6	14.70	128.72	119.90
1	N	914	A	C5-C6-N6	-14.70	111.94	123.70
1	N	351	G	C5-C6-O6	-14.69	119.78	128.60
1	N	587	G	N1-C6-O6	14.69	128.72	119.90
1	N	1203	C	N3-C4-N4	14.68	128.27	118.00
1	N	250	A	N1-C6-N6	14.67	127.40	118.60
1	N	351	G	N1-C6-O6	14.67	128.70	119.90
1	N	1319	A	C5-C6-N1	-14.67	110.37	117.70
1	N	411	A	N1-C6-N6	14.65	127.39	118.60
1	N	169	C	O4'-C1'-N1	14.65	119.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	235	C	O4'-C1'-N1	14.65	119.92	108.20
1	N	400	C	O4'-C1'-N1	14.64	119.92	108.20
1	N	600	A	C4-C5-C6	14.64	124.32	117.00
1	N	937	A	N1-C6-N6	14.63	127.38	118.60
1	N	1093	A	C4-C5-C6	14.61	124.31	117.00
1	N	321	A	N1-C6-N6	14.61	127.36	118.60
1	N	587	G	C5-C6-O6	-14.60	119.84	128.60
1	N	202	G	C5-C6-O6	-14.59	119.84	128.60
1	N	677	U	C5-C4-O4	-14.57	117.16	125.90
1	N	1439	G	C5-C6-O6	-14.56	119.86	128.60
1	N	151	A	C8-N9-C4	-14.55	99.98	105.80
1	N	1438	G	N1-C6-O6	14.55	128.63	119.90
1	N	1152	A	N1-C6-N6	14.54	127.32	118.60
1	N	656	G	N1-C6-O6	14.54	128.62	119.90
1	N	299	G	N1-C6-O6	14.53	128.62	119.90
1	N	432	A	N1-C6-N6	14.52	127.31	118.60
1	N	459	A	N1-C6-N6	14.52	127.31	118.60
1	N	886	G	C5-C6-O6	-14.52	119.89	128.60
1	N	401	C	C2-N3-C4	14.52	127.16	119.90
1	N	554	A	N1-C6-N6	14.52	127.31	118.60
1	N	1081	A	N1-C6-N6	14.52	127.31	118.60
1	N	336	A	C4-C5-C6	14.51	124.26	117.00
1	N	495	A	P-O3'-C3'	14.51	137.11	119.70
1	N	1447	A	N1-C6-N6	14.51	127.30	118.60
1	N	721	G	N3-C2-N2	14.50	130.05	119.90
1	N	1427	C	N1-C2-O2	-14.50	110.20	118.90
1	N	1456	A	N1-C6-N6	14.49	127.30	118.60
1	N	1521	C	C6-N1-C2	-14.47	114.51	120.30
1	N	158	G	N1-C6-O6	14.44	128.56	119.90
1	N	860	A	N1-C6-N6	14.42	127.25	118.60
1	N	752	G	O4'-C1'-N9	14.42	119.74	108.20
1	N	1320	C	O4'-C1'-N1	14.42	119.74	108.20
1	N	1040	U	P-O3'-C3'	14.42	137.00	119.70
1	N	528	C	N3-C4-C5	-14.41	116.14	121.90
1	N	1082	A	N1-C6-N6	14.41	127.25	118.60
1	N	1202	U	O4'-C1'-N1	14.40	119.72	108.20
1	N	483	C	N3-C4-C5	-14.39	116.14	121.90
1	N	563	A	C5-C6-N1	-14.39	110.50	117.70
1	N	617	G	C5-C6-O6	-14.39	119.97	128.60
1	N	1175	G	C5-C6-O6	-14.39	119.97	128.60
1	N	1105	A	N1-C6-N6	14.38	127.23	118.60
1	N	951	G	C5-C6-O6	-14.38	119.97	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	535	A	P-O3'-C3'	14.37	136.94	119.70
1	N	639	G	C8-N9-C4	-14.36	100.66	106.40
1	N	1174	G	N1-C6-O6	14.36	128.51	119.90
1	N	230	G	N1-C2-N3	-14.35	115.29	123.90
1	N	105	G	N1-C6-O6	14.34	128.50	119.90
1	N	848	C	C5-C4-N4	-14.34	110.16	120.20
1	N	748	G	C5-C6-O6	-14.32	120.01	128.60
1	N	579	A	N1-C6-N6	14.32	127.19	118.60
1	N	886	G	N1-C6-O6	14.32	128.49	119.90
1	N	1256	A	C4-C5-C6	14.31	124.16	117.00
1	N	205	A	N1-C6-N6	14.31	127.19	118.60
1	N	646	G	N1-C6-O6	14.31	128.49	119.90
1	N	1283	U	P-O5'-C5'	14.31	143.79	120.90
1	N	1362	A	N1-C6-N6	14.30	127.18	118.60
1	N	185	U	P-O5'-C5'	14.29	143.77	120.90
1	N	192	A	N1-C6-N6	14.29	127.17	118.60
1	N	1328	C	C5-C6-N1	14.27	128.14	121.00
1	N	1170	A	C4-C5-C6	14.27	124.14	117.00
1	N	648	A	N1-C6-N6	14.25	127.15	118.60
1	N	1324	A	N1-C6-N6	14.24	127.14	118.60
1	N	1514	G	C5-C6-O6	-14.24	120.06	128.60
1	N	809	G	C5-C6-O6	-14.24	120.06	128.60
1	N	1161	C	N3-C4-C5	-14.24	116.20	121.90
1	N	609	A	N1-C6-N6	14.23	127.14	118.60
1	N	1258	G	C5-C6-O6	-14.22	120.06	128.60
1	N	721	G	N1-C6-O6	14.21	128.43	119.90
1	N	1006	G	C5-C6-O6	-14.21	120.07	128.60
1	N	1518	A	C5-C6-N1	-14.21	110.59	117.70
1	N	553	A	N1-C2-N3	14.21	136.41	129.30
1	N	469	C	C6-N1-C2	-14.21	114.62	120.30
1	N	671	G	N1-C6-O6	14.21	128.42	119.90
1	N	942	G	N1-C6-O6	14.21	128.42	119.90
1	N	481	G	N1-C6-O6	14.20	128.42	119.90
1	N	121	U	O4'-C1'-N1	14.20	119.56	108.20
1	N	1334	G	N3-C2-N2	14.20	129.84	119.90
1	N	631	C	C6-N1-C2	-14.18	114.63	120.30
1	N	730	G	O4'-C1'-N9	14.18	119.54	108.20
1	N	1053	G	N1-C6-O6	14.18	128.41	119.90
1	N	1102	A	N1-C6-N6	14.18	127.11	118.60
1	N	1410	A	N1-C6-N6	14.17	127.10	118.60
1	N	57	G	N1-C6-O6	14.16	128.40	119.90
1	N	353	A	N1-C6-N6	14.16	127.10	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	829	G	C5-C6-O6	-14.16	120.10	128.60
1	N	197	A	P-O3'-C3'	14.15	136.69	119.70
1	N	640	A	N1-C6-N6	14.15	127.09	118.60
1	N	436	C	O4'-C1'-N1	14.14	119.51	108.20
1	N	120	A	O4'-C1'-N9	14.14	119.51	108.20
1	N	1180	A	N1-C6-N6	14.13	127.08	118.60
1	N	1309	G	N1-C6-O6	14.13	128.38	119.90
1	N	257	G	N1-C6-O6	14.12	128.37	119.90
1	N	1501	C	O4'-C1'-N1	14.12	119.49	108.20
1	N	849	G	N1-C6-O6	14.11	128.37	119.90
1	N	899	C	O4'-C1'-N1	14.11	119.49	108.20
1	N	1156	G	C6-C5-N7	-14.11	121.93	130.40
1	N	266	G	P-O3'-C3'	14.11	136.63	119.70
1	N	42	G	N1-C6-O6	14.11	128.37	119.90
1	N	567	G	N1-C6-O6	14.10	128.36	119.90
1	N	321	A	C4-C5-C6	14.09	124.05	117.00
1	N	896	C	O4'-C1'-N1	14.09	119.47	108.20
1	N	1344	C	N3-C4-C5	-14.09	116.27	121.90
1	N	21	G	N1-C6-O6	14.08	128.35	119.90
1	N	1128	C	C2-N3-C4	14.07	126.94	119.90
1	N	831	A	N1-C6-N6	14.06	127.04	118.60
1	N	1389	C	O4'-C1'-N1	14.06	119.45	108.20
1	N	972	C	O4'-C1'-N1	14.05	119.44	108.20
1	N	328	C	C2-N3-C4	14.04	126.92	119.90
1	N	693	G	C4-C5-C6	14.04	127.22	118.80
1	N	627	G	C5-C6-O6	-14.04	120.18	128.60
1	N	686	U	O4'-C1'-N1	14.04	119.43	108.20
1	N	145	G	N1-C6-O6	14.03	128.32	119.90
1	N	1178	G	N1-C6-O6	14.02	128.31	119.90
1	N	1490	U	O4'-C1'-N1	14.02	119.41	108.20
1	N	1452	C	O4'-C1'-N1	14.02	119.41	108.20
1	N	59	A	N1-C6-N6	14.01	127.01	118.60
1	N	242	G	C5-C6-O6	-14.01	120.19	128.60
1	N	851	G	C5-C6-O6	-14.01	120.19	128.60
1	N	937	A	C8-N9-C4	-14.01	100.20	105.80
1	N	1241	G	N9-C4-C5	-14.01	99.80	105.40
1	N	942	G	C8-N9-C4	-14.00	100.80	106.40
1	N	159	G	N1-C6-O6	13.99	128.30	119.90
1	N	217	C	O4'-C1'-N1	13.99	119.39	108.20
1	N	1518	A	C5-N7-C8	13.99	110.90	103.90
1	N	1069	C	N3-C4-C5	-13.99	116.30	121.90
1	N	42	G	C5-C6-O6	-13.99	120.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	895	G	O4'-C1'-N9	13.98	119.39	108.20
1	N	671	G	C5-C6-O6	-13.98	120.21	128.60
1	N	913	A	N1-C6-N6	13.96	126.98	118.60
1	N	1253	G	N1-C6-O6	13.96	128.27	119.90
1	N	698	G	N1-C2-N3	-13.95	115.53	123.90
1	N	816	A	N1-C6-N6	13.94	126.97	118.60
1	N	1231	G	N1-C6-O6	13.94	128.26	119.90
1	N	478	A	N1-C6-N6	13.93	126.96	118.60
1	N	576	C	N3-C4-N4	13.93	127.75	118.00
1	N	1453	G	N1-C6-O6	13.91	128.25	119.90
1	N	1145	A	N1-C6-N6	13.91	126.94	118.60
1	N	78	A	C8-N9-C4	-13.90	100.24	105.80
1	N	832	G	C5-C6-O6	-13.90	120.26	128.60
1	N	1014	A	C5-C6-N1	-13.90	110.75	117.70
1	N	629	A	N1-C6-N6	13.89	126.94	118.60
1	N	873	A	N1-C6-N6	13.89	126.94	118.60
1	N	6	G	N1-C6-O6	13.89	128.24	119.90
1	N	438	U	O4'-C1'-N1	13.88	119.31	108.20
1	N	686	U	P-O3'-C3'	13.86	136.33	119.70
1	N	1034	G	N1-C6-O6	13.86	128.21	119.90
1	N	794	A	N1-C6-N6	13.85	126.91	118.60
1	N	1432	G	N1-C6-O6	13.85	128.21	119.90
1	N	1454	G	C6-N1-C2	13.83	133.40	125.10
1	N	1160	G	C4-C5-N7	-13.83	105.27	110.80
1	N	242	G	N1-C6-O6	13.81	128.19	119.90
1	N	63	C	C5-C4-N4	-13.81	110.53	120.20
1	N	509	A	C5-C6-N1	-13.81	110.80	117.70
1	N	1336	C	P-O3'-C3'	13.80	136.26	119.70
1	N	239	U	O4'-C1'-N1	13.79	119.23	108.20
1	N	1129	C	O4'-C1'-N1	13.79	119.23	108.20
1	N	1053	G	P-O3'-C3'	13.75	136.20	119.70
1	N	559	A	C5-C6-N6	-13.75	112.70	123.70
1	N	1527	U	O4'-C1'-N1	13.74	119.19	108.20
1	N	929	G	C5-C6-O6	-13.72	120.37	128.60
1	N	200	G	N1-C6-O6	13.72	128.13	119.90
1	N	1078	U	P-O3'-C3'	13.70	136.13	119.70
1	N	345	C	O4'-C1'-N1	13.69	119.15	108.20
1	N	1418	A	N1-C6-N6	13.68	126.81	118.60
1	N	1241	G	C5-C6-O6	-13.68	120.39	128.60
1	N	462	G	N1-C6-O6	13.67	128.10	119.90
1	N	780	A	C8-N9-C4	-13.67	100.33	105.80
1	N	1443	C	N3-C4-C5	-13.65	116.44	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	484	G	O4'-C1'-N9	13.65	119.12	108.20
1	N	1186	G	C5-C6-N1	13.65	118.32	111.50
1	N	1217	C	N3-C4-N4	13.65	127.55	118.00
1	N	371	A	N1-C6-N6	13.63	126.78	118.60
1	N	393	A	N1-C6-N6	13.63	126.78	118.60
1	N	1009	U	O4'-C1'-N1	13.63	119.10	108.20
1	N	836	G	C5-C6-O6	-13.62	120.43	128.60
1	N	1014	A	N1-C6-N6	13.62	126.77	118.60
1	N	934	C	P-O3'-C3'	13.62	136.04	119.70
1	N	266	G	C5-C6-O6	-13.61	120.43	128.60
1	N	1239	A	O4'-C1'-N9	13.59	119.07	108.20
1	N	1061	G	C5-C6-O6	-13.58	120.45	128.60
1	N	503	C	O4'-C1'-N1	13.57	119.06	108.20
1	N	1375	A	N1-C6-N6	13.57	126.74	118.60
1	N	139	A	N1-C6-N6	13.57	126.74	118.60
1	N	593	U	N1-C2-O2	-13.57	113.30	122.80
1	N	1255	G	C5-C6-N1	-13.56	104.72	111.50
1	N	762	U	O4'-C1'-N1	13.56	119.05	108.20
1	N	816	A	C4-C5-C6	13.55	123.77	117.00
1	N	1499	A	C4-C5-C6	13.55	123.77	117.00
1	N	51	A	P-O3'-C3'	13.54	135.94	119.70
1	N	502	A	N1-C6-N6	13.52	126.71	118.60
1	N	6	G	C5-C6-O6	-13.51	120.49	128.60
1	N	1012	A	O4'-C1'-N9	13.49	118.99	108.20
1	N	983	A	N1-C6-N6	13.47	126.68	118.60
1	N	605	U	P-O3'-C3'	13.42	135.80	119.70
1	N	869	G	N1-C6-O6	13.41	127.94	119.90
1	N	906	A	C8-N9-C4	-13.40	100.44	105.80
1	N	380	G	N1-C6-O6	13.40	127.94	119.90
1	N	68	G	N1-C6-O6	13.39	127.94	119.90
1	N	568	G	C5-C6-O6	-13.39	120.56	128.60
1	N	645	G	N1-C6-O6	13.39	127.93	119.90
1	N	1371	G	N1-C6-O6	13.39	127.93	119.90
1	N	1167	A	N1-C6-N6	13.38	126.63	118.60
1	N	372	C	N3-C4-N4	13.38	127.36	118.00
1	N	1179	A	C8-N9-C4	-13.38	100.45	105.80
1	N	1080	A	N1-C6-N6	13.37	126.62	118.60
1	N	722	G	N1-C2-N3	-13.37	115.88	123.90
1	N	544	G	N1-C6-O6	13.36	127.92	119.90
1	N	702	A	O4'-C1'-N9	13.36	118.89	108.20
1	N	1219	A	N1-C6-N6	13.36	126.61	118.60
1	N	1484	C	O4'-C1'-N1	13.36	118.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	984	C	O4'-C1'-N1	13.35	118.88	108.20
1	N	663	A	N1-C6-N6	13.34	126.60	118.60
1	N	1413	A	N9-C4-C5	13.33	111.13	105.80
1	N	1462	C	N3-C4-C5	-13.33	116.57	121.90
1	N	1176	A	N1-C6-N6	13.33	126.60	118.60
1	N	1150	A	C5-C6-N6	-13.32	113.04	123.70
1	N	280	C	C6-N1-C2	-13.32	114.97	120.30
1	N	1422	G	C5-C6-O6	-13.31	120.61	128.60
1	N	145	G	C5-C6-O6	-13.30	120.62	128.60
1	N	381	C	N3-C4-N4	13.29	127.30	118.00
1	N	1155	A	C5-C6-N1	-13.29	111.05	117.70
1	N	859	G	N9-C4-C5	-13.29	100.09	105.40
1	N	161	A	N1-C6-N6	13.28	126.56	118.60
1	N	286	C	C5-C6-N1	13.27	127.64	121.00
1	N	1104	G	N1-C6-O6	13.27	127.86	119.90
1	N	814	A	N1-C6-N6	13.26	126.55	118.60
1	N	1364	U	O4'-C1'-N1	13.25	118.80	108.20
1	N	811	C	N3-C4-N4	13.25	127.27	118.00
1	N	990	C	C6-N1-C2	-13.24	115.00	120.30
1	N	1374	A	N1-C6-N6	13.24	126.54	118.60
1	N	606	G	P-O3'-C3'	13.23	135.58	119.70
1	N	93	U	N3-C4-O4	13.23	128.66	119.40
1	N	1362	A	C4-C5-C6	13.23	123.61	117.00
1	N	695	A	N1-C6-N6	13.22	126.53	118.60
1	N	19	A	C5-C6-N6	-13.22	113.12	123.70
1	N	67	C	C5-C4-N4	-13.22	110.94	120.20
1	N	533	A	N9-C4-C5	13.22	111.09	105.80
1	N	28	A	N1-C2-N3	13.21	135.91	129.30
1	N	1294	G	C5-C6-O6	-13.21	120.68	128.60
1	N	68	G	C5-C6-O6	-13.19	120.69	128.60
1	N	381	C	O4'-C1'-N1	13.19	118.75	108.20
1	N	1518	A	N1-C6-N6	13.19	126.51	118.60
1	N	1125	U	O4'-C1'-N1	13.18	118.75	108.20
1	N	95	C	O4'-C1'-N1	13.17	118.74	108.20
1	N	967	C	O4'-C1'-N1	13.16	118.73	108.20
1	N	1287	A	N1-C6-N6	13.15	126.49	118.60
1	N	957	U	C5-C4-O4	13.15	133.79	125.90
1	N	206	C	N3-C4-N4	13.15	127.20	118.00
1	N	469	C	C2-N1-C1'	13.14	133.25	118.80
1	N	749	A	N1-C6-N6	13.14	126.48	118.60
1	N	1183	U	N3-C4-O4	13.13	128.59	119.40
1	N	517	G	C5-C6-O6	-13.12	120.73	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	127	G	O4'-C1'-N9	13.11	118.69	108.20
1	N	122	G	N9-C4-C5	-13.11	100.16	105.40
1	N	1398	A	N1-C6-N6	13.10	126.46	118.60
1	N	353	A	C5-C6-N6	-13.10	113.22	123.70
1	N	1476	A	C8-N9-C4	13.10	111.04	105.80
1	N	1223	C	C5-C4-N4	-13.09	111.03	120.20
1	N	819	A	N1-C6-N6	13.09	126.45	118.60
1	N	235	C	N3-C4-C5	-13.09	116.67	121.90
1	N	517	G	N1-C6-O6	13.09	127.75	119.90
1	N	522	C	N3-C4-C5	-13.08	116.67	121.90
1	N	557	G	C5-C6-O6	-13.08	120.75	128.60
1	N	1454	G	N1-C2-N3	-13.07	116.06	123.90
1	N	1039	G	N1-C6-O6	13.07	127.74	119.90
1	N	619	U	O4'-C1'-N1	13.05	118.64	108.20
1	N	511	C	P-O3'-C3'	13.04	135.34	119.70
1	N	76	G	C2-N3-C4	13.03	118.42	111.90
1	N	705	G	N1-C6-O6	13.03	127.72	119.90
1	N	523	A	O4'-C1'-N9	13.03	118.62	108.20
1	N	361	G	P-O3'-C3'	13.02	135.32	119.70
1	N	1413	A	C5-C6-N1	-13.02	111.19	117.70
1	N	1482	G	N3-C2-N2	13.01	129.01	119.90
1	N	1252	A	N1-C6-N6	13.00	126.40	118.60
1	N	1261	A	O4'-C1'-N9	12.99	118.59	108.20
1	N	98	A	N1-C6-N6	12.96	126.38	118.60
1	N	55	A	C5-C6-N6	-12.95	113.34	123.70
1	N	447	G	N1-C2-N3	-12.95	116.13	123.90
1	N	1088	G	P-O5'-C5'	12.95	141.61	120.90
1	N	1206	G	C5-C6-O6	-12.95	120.83	128.60
1	N	783	C	N3-C4-C5	-12.93	116.73	121.90
1	N	21	G	C8-N9-C4	-12.92	101.23	106.40
1	N	1298	U	P-O3'-C3'	12.92	135.21	119.70
1	N	352	C	C6-N1-C2	-12.92	115.13	120.30
1	N	292	G	N1-C6-O6	12.91	127.65	119.90
1	N	2	A	N1-C6-N6	12.90	126.34	118.60
1	N	136	C	O4'-C1'-N1	12.89	118.52	108.20
1	N	509	A	N1-C2-N3	-12.89	122.85	129.30
1	N	88	U	P-O3'-C3'	12.88	135.16	119.70
1	N	631	C	C5-C6-N1	12.87	127.44	121.00
1	N	869	G	C5-C6-O6	-12.86	120.88	128.60
1	N	327	A	N1-C6-N6	12.86	126.32	118.60
1	N	1418	A	P-O3'-C3'	12.86	135.13	119.70
1	N	940	C	N3-C4-N4	12.85	126.99	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	895	G	C5-C6-O6	-12.84	120.89	128.60
1	N	1128	C	N3-C4-C5	-12.84	116.76	121.90
1	N	1203	C	N3-C4-C5	-12.83	116.77	121.90
1	N	470	C	C6-N1-C2	-12.82	115.17	120.30
1	N	1421	G	O4'-C1'-N9	12.82	118.45	108.20
1	N	528	C	C6-N1-C2	-12.81	115.17	120.30
1	N	535	A	N1-C6-N6	12.81	126.29	118.60
1	N	617	G	N1-C6-O6	12.81	127.59	119.90
1	N	873	A	C4-C5-C6	12.80	123.40	117.00
1	N	1157	A	C5-C6-N1	-12.80	111.30	117.70
1	N	325	A	N1-C6-N6	12.78	126.27	118.60
1	N	995	C	O4'-C1'-N1	12.78	118.42	108.20
1	N	195	A	C8-N9-C4	-12.77	100.69	105.80
1	N	87	C	N3-C4-C5	-12.76	116.79	121.90
1	N	147	G	C5-C6-O6	-12.75	120.95	128.60
1	N	1023	U	C5-C6-N1	12.75	129.07	122.70
1	N	165	G	C8-N9-C4	-12.74	101.30	106.40
1	N	201	G	C4-C5-N7	12.74	115.90	110.80
1	N	389	A	N1-C6-N6	12.74	126.24	118.60
1	N	1509	C	N3-C4-C5	-12.73	116.81	121.90
1	N	815	A	C4-C5-C6	12.73	123.37	117.00
1	N	568	G	N1-C6-O6	12.73	127.54	119.90
1	N	331	G	N3-C2-N2	12.73	128.81	119.90
1	N	636	U	O4'-C1'-N1	12.73	118.38	108.20
1	N	799	G	C4-C5-N7	12.72	115.89	110.80
1	N	1104	G	C5-C6-O6	-12.72	120.97	128.60
1	N	1468	A	N1-C6-N6	12.72	126.23	118.60
1	N	976	G	N1-C6-O6	12.71	127.53	119.90
1	N	774	G	C5-C6-O6	-12.71	120.97	128.60
1	N	10	A	N1-C6-N6	12.70	126.22	118.60
1	N	1315	U	P-O5'-C5'	12.69	141.20	120.90
1	N	553	A	C2-N3-C4	-12.69	104.26	110.60
1	N	1524	C	O4'-C1'-N1	12.69	118.35	108.20
1	N	1531	A	P-O5'-C5'	12.68	141.19	120.90
1	N	1035	A	C4-C5-N7	-12.68	104.36	110.70
1	N	982	U	P-O3'-C3'	12.67	134.91	119.70
1	N	1162	C	O4'-C1'-N1	12.66	118.33	108.20
1	N	1278	G	P-O3'-C3'	12.66	134.90	119.70
1	N	316	C	C5'-C4'-C3'	-12.66	95.74	116.00
1	N	1362	A	O4'-C1'-N9	12.66	118.33	108.20
1	N	139	A	C5-C6-N6	-12.65	113.58	123.70
1	N	448	A	O4'-C1'-N9	12.65	118.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	681	A	C5-N7-C8	12.65	110.22	103.90
1	N	994	A	N1-C6-N6	12.63	126.18	118.60
1	N	628	G	C4-C5-N7	-12.63	105.75	110.80
1	N	1399	C	O4'-C1'-N1	12.63	118.30	108.20
1	N	528	C	N3-C4-N4	12.63	126.84	118.00
1	N	34	C	O4'-C1'-N1	12.62	118.30	108.20
1	N	300	A	C5-C6-N1	-12.62	111.39	117.70
1	N	873	A	C5-C6-N1	-12.62	111.39	117.70
1	N	1224	U	P-O3'-C3'	12.62	134.84	119.70
1	N	244	U	O4'-C1'-N1	12.60	118.28	108.20
1	N	1004	A	N1-C6-N6	12.60	126.16	118.60
1	N	1531	A	N1-C6-N6	12.60	126.16	118.60
1	N	830	G	C5-C6-N1	-12.60	105.20	111.50
1	N	1098	C	N3-C4-C5	-12.60	116.86	121.90
1	N	753	A	N1-C6-N6	12.60	126.16	118.60
1	N	894	G	N3-C2-N2	12.60	128.72	119.90
1	N	320	A	N1-C6-N6	12.59	126.16	118.60
1	N	975	A	N1-C2-N3	12.59	135.60	129.30
1	N	366	A	P-O3'-C3'	12.59	134.80	119.70
1	N	383	A	N1-C6-N6	12.58	126.15	118.60
1	N	376	G	N1-C6-O6	12.57	127.44	119.90
1	N	857	C	C2-N3-C4	12.56	126.18	119.90
1	N	1500	A	N1-C6-N6	12.56	126.14	118.60
1	N	1168	U	P-O3'-C3'	12.55	134.77	119.70
1	N	1525	G	N9-C4-C5	12.55	110.42	105.40
1	N	659	U	O4'-C1'-N1	12.55	118.24	108.20
1	N	44	A	N1-C6-N6	12.55	126.13	118.60
1	N	1018	G	N1-C6-O6	12.55	127.43	119.90
1	N	1336	C	O4'-C1'-N1	12.55	118.24	108.20
1	N	156	C	C6-N1-C2	-12.54	115.28	120.30
1	N	651	C	N3-C4-C5	-12.54	116.89	121.90
1	N	764	C	N3-C4-C5	-12.53	116.89	121.90
1	N	266	G	N1-C6-O6	12.53	127.42	119.90
1	N	1158	C	N3-C4-C5	-12.53	116.89	121.90
1	N	363	A	N1-C6-N6	12.53	126.11	118.60
1	N	8	A	N1-C6-N6	12.52	126.11	118.60
1	N	803	G	N3-C4-N9	-12.51	118.49	126.00
1	N	1518	A	C4-C5-C6	12.49	123.25	117.00
1	N	1035	A	C5-N7-C8	12.49	110.15	103.90
1	N	830	G	N1-C6-O6	12.49	127.39	119.90
1	N	1322	C	N3-C4-C5	-12.49	116.90	121.90
1	N	635	A	N1-C6-N6	12.49	126.09	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	684	U	O4'-C1'-N1	12.48	118.19	108.20
1	N	724	G	C5-C6-O6	-12.48	121.11	128.60
1	N	563	A	C4-C5-C6	12.48	123.24	117.00
1	N	1133	G	C8-N9-C4	-12.48	101.41	106.40
1	N	874	G	C5-C6-O6	-12.47	121.12	128.60
1	N	548	G	O4'-C1'-N9	12.46	118.17	108.20
1	N	11	G	C5-C6-O6	-12.46	121.12	128.60
1	N	998	C	O4'-C1'-N1	12.46	118.16	108.20
1	N	172	A	P-O3'-C3'	12.45	134.64	119.70
1	N	855	U	O4'-C1'-N1	12.44	118.15	108.20
1	N	290	C	C6-N1-C2	-12.44	115.33	120.30
1	N	377	G	N1-C6-O6	12.43	127.36	119.90
1	N	986	U	O4'-C1'-N1	12.43	118.14	108.20
1	N	944	G	N1-C6-O6	12.42	127.35	119.90
1	N	983	A	C4-C5-C6	12.42	123.21	117.00
1	N	858	G	N1-C6-O6	12.42	127.35	119.90
1	N	430	A	N1-C6-N6	12.41	126.05	118.60
1	N	1324	A	C8-N9-C4	-12.40	100.84	105.80
1	N	197	A	N1-C6-N6	12.40	126.04	118.60
1	N	1504	G	N1-C6-O6	12.40	127.34	119.90
1	N	116	A	C5-C6-N6	-12.39	113.79	123.70
1	N	1331	G	O4'-C1'-N9	12.39	118.11	108.20
1	N	1011	C	N3-C4-N4	12.39	126.67	118.00
1	N	588	G	N1-C6-O6	12.38	127.33	119.90
1	N	1221	G	C5-C6-O6	-12.38	121.17	128.60
1	N	83	C	O4'-C1'-N1	12.38	118.10	108.20
1	N	1384	C	P-O3'-C3'	12.38	134.55	119.70
1	N	498	A	C6-N1-C2	-12.36	111.19	118.60
1	N	812	G	N1-C6-O6	12.35	127.31	119.90
1	N	658	C	C6-N1-C2	-12.34	115.36	120.30
1	N	809	G	O4'-C1'-N9	12.34	118.07	108.20
1	N	225	C	N3-C4-N4	12.33	126.63	118.00
1	N	1001	C	C6-N1-C2	-12.33	115.37	120.30
1	N	1128	C	O4'-C1'-N1	12.33	118.07	108.20
1	N	807	A	C5-C6-N1	-12.32	111.54	117.70
1	N	237	G	N1-C6-O6	12.32	127.29	119.90
1	N	747	A	C5-C6-N6	-12.32	113.85	123.70
1	N	1255	G	N1-C6-O6	12.32	127.29	119.90
1	N	1183	U	N3-C4-C5	-12.32	107.21	114.60
1	N	174	A	C5-C6-N6	-12.31	113.85	123.70
1	N	452	A	C4-C5-C6	12.30	123.15	117.00
1	N	773	G	C5-C6-O6	-12.30	121.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1168	U	C6-N1-C2	-12.30	113.62	121.00
1	N	646	G	C5-C6-O6	-12.30	121.22	128.60
1	N	48	C	C5-C4-N4	-12.30	111.59	120.20
1	N	503	C	N3-C4-C5	-12.29	116.98	121.90
1	N	539	A	C5-C6-N6	-12.29	113.87	123.70
1	N	970	C	N3-C4-C5	-12.28	116.99	121.90
1	N	1385	G	C5-C6-N1	-12.28	105.36	111.50
1	N	447	G	O4'-C1'-N9	12.28	118.02	108.20
1	N	1093	A	N1-C6-N6	12.28	125.97	118.60
1	N	1217	C	O4'-C1'-N1	12.27	118.02	108.20
1	N	366	A	O4'-C1'-N9	12.27	118.02	108.20
1	N	1103	C	N3-C4-C5	-12.26	117.00	121.90
1	N	1100	C	P-O3'-C3'	-12.26	104.99	119.70
1	N	465	A	C4-C5-C6	12.25	123.13	117.00
1	N	719	C	C6-N1-C2	-12.25	115.40	120.30
1	N	1294	G	N9-C4-C5	-12.23	100.51	105.40
1	N	46	G	N1-C6-O6	12.22	127.23	119.90
1	N	1148	U	C5-C4-O4	-12.22	118.56	125.90
1	N	122	G	C4-C5-N7	12.22	115.69	110.80
1	N	270	A	C5-C6-N1	-12.22	111.59	117.70
1	N	696	A	C5-C6-N1	-12.22	111.59	117.70
1	N	794	A	N1-C2-N3	12.21	135.40	129.30
1	N	305	G	N1-C6-O6	12.20	127.22	119.90
1	N	455	G	N1-C6-O6	12.20	127.22	119.90
1	N	1165	U	O4'-C1'-N1	12.19	117.95	108.20
1	N	584	G	N1-C6-O6	12.19	127.22	119.90
1	N	60	A	O4'-C1'-N9	12.18	117.95	108.20
1	N	652	U	O4'-C1'-N1	12.17	117.94	108.20
1	N	1258	G	N1-C6-O6	12.17	127.20	119.90
1	N	505	G	C4-C5-N7	12.17	115.67	110.80
1	N	1098	C	O4'-C1'-N1	12.17	117.94	108.20
1	N	222	C	N3-C4-N4	12.17	126.52	118.00
1	N	1499	A	C5-C6-N1	-12.16	111.62	117.70
1	N	184	G	P-O5'-C5'	12.16	140.35	120.90
1	N	310	G	C5-C6-O6	-12.15	121.31	128.60
1	N	443	C	N3-C4-C5	-12.15	117.04	121.90
1	N	1428	A	N1-C6-N6	12.15	125.89	118.60
1	N	308	C	O4'-C1'-N1	12.14	117.92	108.20
1	N	93	U	P-O5'-C5'	12.14	140.32	120.90
1	N	521	G	N1-C6-O6	12.14	127.18	119.90
1	N	1108	G	N1-C6-O6	12.13	127.18	119.90
1	N	588	G	N1-C2-N3	-12.13	116.62	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	743	A	N1-C6-N6	12.11	125.87	118.60
1	N	508	U	O4'-C1'-N1	12.10	117.88	108.20
1	N	525	C	N3-C4-C5	-12.10	117.06	121.90
1	N	874	G	N1-C6-O6	12.10	127.16	119.90
1	N	151	A	N1-C6-N6	12.09	125.85	118.60
1	N	1164	G	O4'-C1'-N9	12.09	117.87	108.20
1	N	1097	C	N3-C4-N4	12.08	126.46	118.00
1	N	974	A	C4-C5-C6	12.08	123.04	117.00
1	N	213	G	C5-C6-O6	-12.08	121.35	128.60
1	N	457	G	C5-C6-O6	-12.07	121.36	128.60
1	N	1240	U	C6-N1-C2	-12.07	113.76	121.00
1	N	634	C	N3-C4-C5	-12.07	117.07	121.90
1	N	42	G	O4'-C1'-N9	12.06	117.85	108.20
1	N	303	A	C5-C6-N1	-12.06	111.67	117.70
1	N	985	C	N3-C4-N4	12.06	126.44	118.00
1	N	764	C	O4'-C1'-N1	12.06	117.85	108.20
1	N	1379	G	N1-C6-O6	12.06	127.14	119.90
1	N	1285	A	C5-C6-N1	-12.06	111.67	117.70
1	N	379	C	C6-N1-C2	-12.05	115.48	120.30
1	N	256	U	C5-C4-O4	-12.05	118.67	125.90
1	N	1005	A	N1-C6-N6	12.04	125.83	118.60
1	N	164	G	C5-C6-O6	-12.04	121.38	128.60
1	N	1305	G	C5-C6-O6	12.04	135.82	128.60
1	N	1472	U	O4'-C1'-N1	12.04	117.83	108.20
1	N	279	A	N1-C6-N6	12.03	125.82	118.60
1	N	58	C	N3-C4-C5	-12.03	117.09	121.90
1	N	1075	U	C5-C4-O4	-12.02	118.69	125.90
1	N	627	G	N1-C6-O6	12.02	127.11	119.90
1	N	341	C	C6-N1-C2	-12.01	115.50	120.30
1	N	317	U	O4'-C1'-N1	12.01	117.81	108.20
1	N	626	G	N1-C6-O6	12.01	127.11	119.90
1	N	1462	C	N3-C4-N4	12.00	126.40	118.00
1	N	377	G	C5-C6-O6	-12.00	121.40	128.60
1	N	831	A	C5-C6-N1	-12.00	111.70	117.70
1	N	1299	A	N9-C4-C5	-12.00	101.00	105.80
1	N	32	A	C4-C5-C6	12.00	123.00	117.00
1	N	1515	G	C5-C6-O6	-12.00	121.40	128.60
1	N	1177	G	O4'-C1'-N9	11.98	117.79	108.20
1	N	987	G	N1-C6-O6	11.98	127.09	119.90
1	N	1029	U	O4'-C1'-N1	11.98	117.78	108.20
1	N	1318	A	C5-C6-N6	-11.97	114.12	123.70
1	N	816	A	C5-C6-N1	-11.97	111.72	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1026	G	N1-C6-O6	11.97	127.08	119.90
1	N	104	G	C4-C5-N7	11.97	115.59	110.80
1	N	998	C	C5-C4-N4	-11.96	111.83	120.20
1	N	1514	G	C5-N7-C8	-11.97	98.32	104.30
1	N	302	G	C5-C6-N1	-11.96	105.52	111.50
1	N	390	U	O4'-C1'-N1	11.96	117.77	108.20
1	N	491	G	C4-C5-C6	11.95	125.97	118.80
1	N	716	A	C5-C6-N1	-11.95	111.72	117.70
1	N	1050	G	O4'-C1'-N9	11.95	117.76	108.20
1	N	1213	A	N1-C6-N6	11.96	125.77	118.60
1	N	1457	G	N1-C6-O6	11.95	127.07	119.90
1	N	966	G	C8-N9-C4	-11.95	101.62	106.40
1	N	548	G	N1-C6-O6	11.95	127.07	119.90
1	N	1368	A	O4'-C1'-N9	11.95	117.76	108.20
1	N	975	A	C4-C5-C6	11.95	122.97	117.00
1	N	525	C	O4'-C1'-N1	11.94	117.75	108.20
1	N	1363	A	C6-N1-C2	11.94	125.77	118.60
1	N	58	C	P-O3'-C3'	11.94	134.03	119.70
1	N	832	G	N1-C6-O6	11.94	127.06	119.90
1	N	277	C	C6-N1-C2	-11.94	115.53	120.30
1	N	1146	A	N1-C6-N6	11.94	125.76	118.60
1	N	1377	A	C4-C5-C6	11.94	122.97	117.00
1	N	298	A	C8-N9-C4	-11.92	101.03	105.80
1	N	723	U	O4'-C1'-N1	11.92	117.74	108.20
1	N	532	A	C4-C5-C6	11.91	122.96	117.00
1	N	656	G	C5-C6-O6	-11.91	121.45	128.60
1	N	674	G	N1-C6-O6	11.91	127.05	119.90
1	N	1494	G	C4-C5-N7	-11.91	106.04	110.80
1	N	73	C	C4-C5-C6	11.91	123.35	117.40
1	N	241	G	N1-C2-N3	-11.90	116.76	123.90
1	N	745	G	C5-C6-O6	-11.90	121.46	128.60
1	N	1005	A	C4-C5-C6	11.90	122.95	117.00
1	N	1170	A	C5-C6-N1	-11.90	111.75	117.70
1	N	1296	C	N3-C4-C5	-11.90	117.14	121.90
1	N	814	A	C5-C6-N6	-11.89	114.19	123.70
1	N	391	G	O4'-C1'-N9	11.89	117.71	108.20
1	N	1119	C	C6-N1-C2	-11.88	115.55	120.30
1	N	616	G	N1-C6-O6	11.88	127.03	119.90
1	N	206	C	C5-C4-N4	-11.88	111.89	120.20
1	N	1169	A	N1-C6-N6	11.87	125.72	118.60
1	N	602	A	N1-C6-N6	11.87	125.72	118.60
1	N	33	A	N1-C6-N6	11.86	125.72	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	814	A	P-O3'-C3'	11.86	133.93	119.70
1	N	1360	A	C8-N9-C4	-11.86	101.06	105.80
1	N	1367	C	O4'-C1'-N1	11.86	117.69	108.20
1	N	1395	C	O4'-C1'-N1	11.86	117.69	108.20
1	N	495	A	N1-C6-N6	11.86	125.71	118.60
1	N	523	A	N1-C6-N6	11.86	125.71	118.60
1	N	1294	G	N1-C6-O6	11.86	127.01	119.90
1	N	282	A	N1-C6-N6	11.85	125.71	118.60
1	N	1022	A	C5-C6-N6	-11.85	114.22	123.70
1	N	1525	G	C8-N9-C4	-11.85	101.66	106.40
1	N	883	C	N3-C4-C5	-11.85	117.16	121.90
1	N	1236	A	P-O3'-C3'	11.84	133.91	119.70
1	N	1508	A	N1-C6-N6	11.84	125.70	118.60
1	N	1188	A	N1-C6-N6	11.84	125.70	118.60
1	N	1325	C	N3-C4-N4	11.84	126.28	118.00
1	N	1325	C	N3-C4-C5	-11.83	117.17	121.90
1	N	37	U	O4'-C1'-N1	11.83	117.67	108.20
1	N	702	A	P-O3'-C3'	11.82	133.89	119.70
1	N	631	C	C2-N1-C1'	11.82	131.80	118.80
1	N	1006	G	N1-C6-O6	11.82	126.99	119.90
1	N	226	G	C5-C6-O6	-11.82	121.51	128.60
1	N	456	A	C5-C6-N6	-11.82	114.25	123.70
1	N	69	G	C5-C6-N1	-11.81	105.59	111.50
1	N	1143	G	N1-C6-O6	11.81	126.99	119.90
1	N	461	A	C5-C6-N1	-11.80	111.80	117.70
1	N	1319	A	N1-C6-N6	11.80	125.68	118.60
1	N	1020	G	N1-C6-O6	11.80	126.98	119.90
1	N	595	A	N1-C6-N6	11.79	125.67	118.60
1	N	130	A	C2-N3-C4	-11.79	104.71	110.60
1	N	161	A	C5-C6-N1	-11.79	111.81	117.70
1	N	650	G	C8-N9-C4	-11.78	101.69	106.40
1	N	1215	G	C5-C6-O6	-11.78	121.53	128.60
1	N	312	C	O4'-C1'-N1	11.77	117.62	108.20
1	N	1039	G	N1-C2-N3	-11.77	116.84	123.90
1	N	303	A	C4-C5-C6	11.77	122.88	117.00
1	N	1387	G	N1-C6-O6	11.76	126.96	119.90
1	N	205	A	C8-N9-C4	-11.76	101.09	105.80
1	N	482	A	N1-C6-N6	11.76	125.66	118.60
1	N	799	G	C8-N9-C4	11.76	111.11	106.40
1	N	1157	A	C5-C6-N6	-11.76	114.29	123.70
1	N	818	G	O4'-C1'-N9	11.76	117.61	108.20
1	N	222	C	C5-C4-N4	-11.75	111.97	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	330	C	C6-N1-C2	-11.75	115.60	120.30
1	N	912	C	N3-C4-N4	11.75	126.22	118.00
1	N	817	C	P-O3'-C3'	11.74	133.79	119.70
1	N	1380	U	O4'-C1'-N1	11.74	117.59	108.20
1	N	337	G	N1-C6-O6	11.73	126.94	119.90
1	N	610	U	O4'-C1'-N1	11.73	117.59	108.20
1	N	1407	C	C6-N1-C2	-11.73	115.61	120.30
1	N	705	G	N3-C2-N2	11.73	128.11	119.90
1	N	878	A	N1-C6-N6	11.71	125.63	118.60
1	N	1160	G	C5-N7-C8	11.71	110.16	104.30
1	N	1449	C	C6-N1-C2	-11.71	115.61	120.30
1	N	151	A	C4-C5-C6	11.71	122.86	117.00
1	N	1227	A	N9-C4-C5	-11.71	101.12	105.80
1	N	22	G	O4'-C1'-N9	11.70	117.56	108.20
1	N	533	A	C4-C5-C6	11.70	122.85	117.00
1	N	1172	C	C6-N1-C2	-11.70	115.62	120.30
1	N	203	G	N1-C2-N3	-11.69	116.89	123.90
1	N	629	A	C4-C5-C6	11.69	122.84	117.00
1	N	356	A	N1-C6-N6	11.69	125.61	118.60
1	N	746	A	C5-C6-N6	-11.69	114.35	123.70
1	N	1096	C	O4'-C1'-N1	11.68	117.55	108.20
1	N	461	A	C4-C5-C6	11.68	122.84	117.00
1	N	201	G	N9-C4-C5	-11.68	100.73	105.40
1	N	1393	U	N3-C4-O4	11.68	127.58	119.40
1	N	1251	A	C5-C6-N6	-11.67	114.36	123.70
1	N	1177	G	N1-C6-O6	11.65	126.89	119.90
1	N	198	G	O4'-C1'-N9	11.65	117.52	108.20
1	N	330	C	N3-C4-C5	-11.65	117.24	121.90
1	N	1421	G	N3-C2-N2	11.65	128.06	119.90
1	N	581	G	P-O5'-C5'	11.65	139.53	120.90
1	N	337	G	C5-C6-O6	-11.64	121.61	128.60
1	N	120	A	P-O3'-C3'	11.64	133.67	119.70
1	N	1499	A	C6-C5-N7	-11.64	124.15	132.30
1	N	1140	C	N3-C4-C5	-11.64	117.25	121.90
1	N	1524	C	N3-C4-N4	11.64	126.14	118.00
1	N	1038	C	C2-N3-C4	11.63	125.72	119.90
1	N	937	A	N9-C4-C5	11.63	110.45	105.80
1	N	1138	G	P-O3'-C3'	11.63	133.65	119.70
1	N	1432	G	P-O3'-C3'	11.63	133.65	119.70
1	N	76	G	C8-N9-C4	-11.62	101.75	106.40
1	N	670	G	C5-C6-N1	-11.62	105.69	111.50
1	N	293	G	C5-C6-O6	-11.62	121.63	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	212	G	C5-C6-O6	-11.62	121.63	128.60
1	N	521	G	C6-C5-N7	-11.62	123.43	130.40
1	N	1016	A	C5-C6-N1	-11.62	111.89	117.70
1	N	753	A	C5-C6-N1	-11.61	111.89	117.70
1	N	1287	A	C8-N9-C4	-11.61	101.16	105.80
1	N	1053	G	C5-C6-O6	-11.61	121.63	128.60
1	N	907	A	N1-C6-N6	11.61	125.57	118.60
1	N	230	G	C6-N1-C2	11.61	132.06	125.10
1	N	967	C	N3-C4-C5	-11.61	117.26	121.90
1	N	141	G	N1-C6-O6	11.60	126.86	119.90
1	N	382	A	N1-C6-N6	11.60	125.56	118.60
1	N	586	C	O4'-C1'-N1	11.60	117.48	108.20
1	N	627	G	N1-C2-N3	-11.60	116.94	123.90
1	N	319	G	N1-C6-O6	11.59	126.86	119.90
1	N	861	G	O4'-C1'-N9	11.59	117.47	108.20
1	N	1319	A	P-O3'-C3'	11.59	133.60	119.70
1	N	189	A	N1-C6-N6	11.59	125.55	118.60
1	N	412	A	C5-C6-N1	-11.58	111.91	117.70
1	N	1097	C	C5-C4-N4	-11.58	112.09	120.20
1	N	33	A	C5-C6-N1	-11.58	111.91	117.70
1	N	1179	A	N1-C6-N6	11.58	125.55	118.60
1	N	766	A	N1-C6-N6	11.58	125.55	118.60
1	N	939	G	N9-C4-C5	-11.57	100.77	105.40
1	N	72	A	O4'-C1'-N9	11.57	117.45	108.20
1	N	171	A	C4-C5-C6	11.57	122.78	117.00
1	N	26	A	C8-N9-C4	-11.55	101.18	105.80
1	N	1399	C	C2-N3-C4	11.55	125.68	119.90
1	N	160	A	C8-N9-C4	-11.55	101.18	105.80
1	N	816	A	C8-N9-C4	-11.55	101.18	105.80
1	N	805	C	C5-C6-N1	11.55	126.77	121.00
1	N	1331	G	N3-C4-C5	-11.54	122.83	128.60
1	N	917	G	N1-C6-O6	11.54	126.82	119.90
1	N	240	G	C5-C6-N1	-11.54	105.73	111.50
1	N	338	A	N1-C6-N6	11.54	125.52	118.60
1	N	1403	C	N3-C4-C5	-11.54	117.28	121.90
1	N	945	G	N1-C6-O6	11.53	126.82	119.90
1	N	226	G	N1-C6-O6	11.53	126.82	119.90
1	N	504	C	C2-N3-C4	11.52	125.66	119.90
1	N	181	A	C5-C6-N1	-11.52	111.94	117.70
1	N	307	C	O4'-C1'-N1	11.52	117.42	108.20
1	N	864	A	N1-C2-N3	11.52	135.06	129.30
1	N	1133	G	C4-C5-C6	11.52	125.71	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	318	G	N1-C2-N3	-11.51	116.99	123.90
1	N	1144	G	C8-N9-C4	-11.51	101.80	106.40
1	N	1198	G	N1-C2-N3	-11.51	116.99	123.90
1	N	710	G	C4-C5-N7	11.51	115.40	110.80
1	N	1274	A	N7-C8-N9	11.51	119.55	113.80
1	N	1108	G	C6-C5-N7	-11.50	123.50	130.40
1	N	1333	A	C5-C6-N6	-11.50	114.50	123.70
1	N	712	A	C5-C6-N6	-11.50	114.50	123.70
1	N	843	U	O4'-C1'-N1	11.49	117.39	108.20
1	N	1016	A	N1-C6-N6	11.49	125.49	118.60
1	N	1523	G	N1-C6-O6	11.48	126.79	119.90
1	N	464	U	O4'-C1'-N1	11.47	117.38	108.20
1	N	977	A	N9-C4-C5	11.47	110.39	105.80
1	N	84	U	P-O3'-C3'	11.47	133.46	119.70
1	N	807	A	C8-N9-C4	11.47	110.39	105.80
1	N	958	A	C4-C5-C6	11.47	122.73	117.00
1	N	1269	A	C2-N3-C4	11.46	116.33	110.60
1	N	1405	G	O4'-C1'-N9	11.46	117.37	108.20
1	N	1347	G	C5-C6-O6	-11.46	121.73	128.60
1	N	981	U	O4'-C1'-N1	11.45	117.36	108.20
1	N	139	A	O4'-C1'-N9	11.45	117.36	108.20
1	N	759	A	N9-C4-C5	-11.45	101.22	105.80
1	N	396	C	O4'-C1'-N1	11.44	117.35	108.20
1	N	1482	G	N1-C2-N3	-11.44	117.04	123.90
1	N	792	A	N1-C6-N6	11.43	125.46	118.60
1	N	810	C	C2-N3-C4	11.43	125.62	119.90
1	N	799	G	N9-C4-C5	-11.43	100.83	105.40
1	N	1225	A	C5-C6-N6	-11.43	114.56	123.70
1	N	1387	G	C5-C6-O6	-11.43	121.75	128.60
1	N	1255	G	C6-C5-N7	-11.42	123.55	130.40
1	N	152	A	C2-N3-C4	11.42	116.31	110.60
1	N	1242	G	P-O5'-C5'	11.42	139.17	120.90
1	N	1129	C	N3-C4-C5	-11.42	117.33	121.90
1	N	186	C	N3-C4-C5	-11.41	117.33	121.90
1	N	416	G	C6-C5-N7	-11.41	123.55	130.40
1	N	206	C	P-O3'-C3'	11.41	133.39	119.70
1	N	580	C	N3-C4-C5	-11.41	117.34	121.90
1	N	819	A	C4-C5-C6	11.41	122.70	117.00
1	N	6	G	C5-N7-C8	11.40	110.00	104.30
1	N	329	A	N1-C6-N6	11.40	125.44	118.60
1	N	1001	C	N3-C4-N4	11.40	125.98	118.00
1	N	69	G	C5-C6-O6	-11.39	121.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1274	A	C8-N9-C4	-11.39	101.24	105.80
1	N	1144	G	P-O3'-C3'	11.38	133.36	119.70
1	N	1293	C	N3-C4-N4	11.38	125.97	118.00
1	N	1355	G	N1-C6-O6	11.38	126.73	119.90
1	N	1442	G	C5-C6-O6	-11.37	121.78	128.60
1	N	233	C	C6-N1-C2	-11.37	115.75	120.30
1	N	182	A	N1-C6-N6	11.36	125.41	118.60
1	N	1360	A	C5-C6-N6	-11.35	114.62	123.70
1	N	162	A	N1-C6-N6	11.35	125.41	118.60
1	N	660	C	O4'-C1'-N1	11.35	117.28	108.20
1	N	888	G	N1-C6-O6	11.34	126.71	119.90
1	N	326	G	N1-C6-O6	11.34	126.70	119.90
1	N	679	C	N3-C4-N4	11.34	125.94	118.00
1	N	165	G	N7-C8-N9	11.34	118.77	113.10
1	N	255	G	N3-C2-N2	11.34	127.83	119.90
1	N	771	G	N9-C4-C5	-11.34	100.87	105.40
1	N	1513	A	C5-C6-N1	-11.33	112.03	117.70
1	N	628	G	N1-C6-O6	11.32	126.69	119.90
1	N	1015	G	O4'-C1'-N9	11.31	117.25	108.20
1	N	257	G	C8-N9-C4	-11.31	101.88	106.40
1	N	1348	U	O4'-C1'-N1	11.31	117.25	108.20
1	N	557	G	N1-C6-O6	11.31	126.69	119.90
1	N	569	C	O4'-C1'-N1	11.30	117.24	108.20
1	N	1022	A	O4'-C1'-N9	11.30	117.24	108.20
1	N	1158	C	C2-N1-C1'	11.30	131.23	118.80
1	N	389	A	C5-C6-N1	-11.29	112.05	117.70
1	N	1039	G	N3-C2-N2	11.29	127.81	119.90
1	N	658	C	O4'-C1'-N1	11.29	117.23	108.20
1	N	895	G	N1-C6-O6	11.29	126.67	119.90
1	N	1021	A	C2-N3-C4	-11.29	104.96	110.60
1	N	1357	A	C6-C5-N7	-11.29	124.40	132.30
1	N	1294	G	N3-C4-C5	11.28	134.24	128.60
1	N	991	U	P-O3'-C3'	11.28	133.24	119.70
1	N	676	A	N1-C6-N6	11.28	125.37	118.60
1	N	980	C	O4'-C1'-N1	11.27	117.22	108.20
1	N	452	A	C5-C6-N1	-11.27	112.06	117.70
1	N	1135	U	C5-C4-O4	-11.27	119.14	125.90
1	N	946	A	N1-C6-N6	11.26	125.36	118.60
1	N	1254	A	N1-C6-N6	11.26	125.36	118.60
1	N	643	C	N3-C4-N4	11.26	125.88	118.00
1	N	513	C	C5-C6-N1	11.25	126.62	121.00
1	N	947	G	C5-N7-C8	11.25	109.92	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	710	G	N9-C4-C5	-11.25	100.90	105.40
1	N	775	G	C5-C6-O6	-11.25	121.85	128.60
1	N	893	C	C4-C5-C6	11.25	123.02	117.40
1	N	23	C	C6-N1-C2	-11.24	115.80	120.30
1	N	124	C	C6-N1-C2	-11.24	115.80	120.30
1	N	598	U	O4'-C1'-N1	11.24	117.19	108.20
1	N	1035	A	C5-C6-N6	-11.24	114.70	123.70
1	N	1377	A	P-O3'-C3'	11.24	133.19	119.70
1	N	790	A	N1-C6-N6	11.24	125.34	118.60
1	N	45	G	C5-C6-O6	-11.24	121.86	128.60
1	N	1112	C	O4'-C1'-N1	11.24	117.19	108.20
1	N	307	C	C6-N1-C2	-11.23	115.81	120.30
1	N	302	G	C5-C6-O6	-11.23	121.86	128.60
1	N	586	C	N3-C4-C5	-11.23	117.41	121.90
1	N	1153	G	C8-N9-C4	-11.23	101.91	106.40
1	N	645	G	C5-C6-O6	-11.23	121.86	128.60
1	N	670	G	C8-N9-C4	-11.23	101.91	106.40
1	N	138	G	O4'-C1'-N9	11.22	117.18	108.20
1	N	215	C	O4'-C1'-N1	11.22	117.18	108.20
1	N	1191	A	C5-N7-C8	11.22	109.51	103.90
1	N	1419	G	C5-C6-O6	-11.22	121.87	128.60
1	N	27	G	O4'-C1'-N9	11.22	117.17	108.20
1	N	727	G	N1-C6-O6	11.21	126.63	119.90
1	N	1035	A	N9-C4-C5	11.21	110.28	105.80
1	N	1252	A	O4'-C1'-N9	11.21	117.16	108.20
1	N	325	A	C5-N7-C8	11.20	109.50	103.90
1	N	715	A	N1-C6-N6	11.20	125.32	118.60
1	N	789	U	P-O5'-C5'	11.19	138.81	120.90
1	N	665	A	C5-N7-C8	11.19	109.49	103.90
1	N	1044	A	C5-C6-N6	-11.17	114.76	123.70
1	N	717	U	O4'-C1'-N1	11.17	117.14	108.20
1	N	1305	G	O4'-C1'-N9	11.17	117.13	108.20
1	N	160	A	N1-C6-N6	11.16	125.30	118.60
1	N	1429	A	N1-C6-N6	11.16	125.30	118.60
1	N	199	A	P-O5'-C5'	11.16	138.76	120.90
1	N	688	G	C6-C5-N7	-11.16	123.70	130.40
1	N	448	A	N7-C8-N9	-11.16	108.22	113.80
1	N	689	C	C5-C4-N4	-11.15	112.40	120.20
1	N	1309	G	C8-N9-C4	-11.14	101.94	106.40
1	N	1478	U	O4'-C1'-N1	11.14	117.11	108.20
1	N	491	G	C6-C5-N7	-11.13	123.72	130.40
1	N	509	A	C6-N1-C2	11.13	125.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	331	G	C5-C6-O6	-11.13	121.92	128.60
1	N	450	G	C5-C6-N1	-11.13	105.94	111.50
1	N	241	G	N3-C2-N2	11.12	127.69	119.90
1	N	1409	C	N3-C4-N4	11.12	125.78	118.00
1	N	30	U	C1'-O4'-C4'	11.12	118.80	109.90
1	N	912	C	C5-C4-N4	-11.12	112.42	120.20
1	N	1331	G	C4-C5-C6	11.12	125.47	118.80
1	N	666	G	N3-C2-N2	11.12	127.68	119.90
1	N	596	A	N1-C6-N6	11.11	125.27	118.60
1	N	475	C	O4'-C1'-N1	11.11	117.08	108.20
1	N	89	U	P-O3'-C3'	11.10	133.02	119.70
1	N	139	A	C4-C5-N7	11.10	116.25	110.70
1	N	1201	A	C4-C5-C6	11.10	122.55	117.00
1	N	278	G	O4'-C1'-N9	11.10	117.08	108.20
1	N	898	G	C4-C5-N7	11.09	115.24	110.80
1	N	1175	G	O4'-C1'-N9	11.09	117.08	108.20
1	N	454	G	C5-C6-O6	-11.09	121.95	128.60
1	N	959	A	C5-C6-N6	-11.08	114.83	123.70
1	N	373	A	N1-C6-N6	11.07	125.24	118.60
1	N	1218	C	C6-N1-C2	-11.07	115.87	120.30
1	N	779	C	N3-C4-C5	-11.06	117.47	121.90
1	N	805	C	C6-N1-C2	-11.06	115.88	120.30
1	N	649	A	O4'-C1'-N9	11.06	117.05	108.20
1	N	102	G	N1-C6-O6	11.06	126.54	119.90
1	N	1193	G	O4'-C1'-N9	11.06	117.05	108.20
1	N	836	G	N1-C6-O6	11.05	126.53	119.90
1	N	1166	G	N1-C6-O6	11.05	126.53	119.90
1	N	306	A	N1-C6-N6	11.05	125.23	118.60
1	N	314	C	O4'-C1'-N1	11.05	117.04	108.20
1	N	658	C	N3-C4-C5	-11.05	117.48	121.90
1	N	391	G	N1-C6-O6	11.04	126.52	119.90
1	N	832	G	C2-N3-C4	-11.04	106.38	111.90
1	N	109	A	P-O3'-C3'	11.03	132.94	119.70
1	N	172	A	C8-N9-C4	-11.03	101.39	105.80
1	N	908	A	C5-C6-N1	-11.03	112.18	117.70
1	N	1075	U	O4'-C1'-N1	11.03	117.03	108.20
1	N	76	G	N3-C4-C5	-11.02	123.09	128.60
1	N	208	U	N1-C2-N3	-11.02	108.29	114.90
1	N	658	C	N3-C4-N4	11.02	125.72	118.00
1	N	670	G	O4'-C1'-N9	11.02	117.02	108.20
1	N	723	U	C1'-O4'-C4'	-11.02	101.08	109.90
1	N	1357	A	N1-C2-N3	11.02	134.81	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	490	C	C6-N1-C2	-11.02	115.89	120.30
1	N	1379	G	O4'-C1'-N9	11.02	117.01	108.20
1	N	566	G	P-O3'-C3'	11.01	132.91	119.70
1	N	276	G	N1-C6-O6	11.01	126.50	119.90
1	N	515	G	P-O5'-C5'	11.00	138.50	120.90
1	N	549	C	O4'-C1'-N1	11.00	117.00	108.20
1	N	1450	U	O4'-C1'-N1	11.00	117.00	108.20
1	N	98	A	C4-C5-C6	10.99	122.50	117.00
1	N	1244	G	C5-C6-O6	-10.98	122.01	128.60
1	N	171	A	N1-C6-N6	10.97	125.18	118.60
1	N	380	G	O4'-C1'-N9	10.97	116.97	108.20
1	N	1526	G	C2-N3-C4	10.97	117.38	111.90
1	N	247	G	C5-C6-O6	-10.97	122.02	128.60
1	N	1435	G	N9-C4-C5	-10.96	101.01	105.40
1	N	406	G	C5-C6-O6	-10.96	122.02	128.60
1	N	143	A	C6-C5-N7	-10.96	124.63	132.30
1	N	474	G	C8-N9-C4	10.96	110.78	106.40
1	N	173	U	O4'-C1'-N1	10.96	116.97	108.20
1	N	532	A	C6-N1-C2	10.96	125.17	118.60
1	N	581	G	N1-C6-O6	10.96	126.47	119.90
1	N	856	C	C5-C6-N1	10.95	126.48	121.00
1	N	1376	U	N3-C4-O4	10.94	127.06	119.40
1	N	815	A	N3-C4-C5	-10.94	119.14	126.80
1	N	964	A	N1-C6-N6	10.94	125.17	118.60
1	N	21	G	N7-C8-N9	10.94	118.57	113.10
1	N	264	C	O4'-C1'-N1	10.93	116.95	108.20
1	N	905	U	P-O5'-C5'	10.93	138.39	120.90
1	N	991	U	C5-C6-N1	10.93	128.17	122.70
1	N	72	A	N9-C4-C5	-10.93	101.43	105.80
1	N	200	G	O4'-C1'-N9	10.93	116.94	108.20
1	N	1290	G	N1-C2-N3	-10.93	117.34	123.90
1	N	461	A	C6-C5-N7	-10.92	124.66	132.30
1	N	918	A	C5-C6-N1	-10.92	112.24	117.70
1	N	957	U	N3-C4-C5	-10.92	108.05	114.60
1	N	777	A	O4'-C1'-N9	10.91	116.93	108.20
1	N	1044	A	C4-C5-C6	10.91	122.46	117.00
1	N	1511	G	C5-C6-O6	-10.91	122.06	128.60
1	N	916	U	O4'-C1'-N1	10.90	116.92	108.20
1	N	1468	A	C5-C6-N1	-10.90	112.25	117.70
1	N	1487	G	O4'-C1'-N9	10.90	116.92	108.20
1	N	173	U	P-O3'-C3'	10.90	132.78	119.70
1	N	515	G	N1-C6-O6	10.90	126.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1435	G	O4'-C1'-N9	10.90	116.92	108.20
1	N	151	A	C5-C6-N1	-10.89	112.26	117.70
1	N	310	G	N1-C6-O6	10.89	126.43	119.90
1	N	1079	G	N1-C2-N3	-10.89	117.37	123.90
1	N	807	A	C2-N3-C4	-10.88	105.16	110.60
1	N	1344	C	N3-C4-N4	10.88	125.62	118.00
1	N	399	G	N3-C2-N2	10.88	127.51	119.90
1	N	422	C	O4'-C1'-N1	10.88	116.90	108.20
1	N	722	G	C5-C6-O6	-10.87	122.08	128.60
1	N	366	A	C5-C6-N1	-10.87	112.27	117.70
1	N	1526	G	C5-C6-O6	-10.87	122.08	128.60
1	N	67	C	N3-C4-N4	10.87	125.61	118.00
1	N	588	G	C2-N3-C4	10.87	117.33	111.90
1	N	357	G	N1-C2-N3	-10.86	117.38	123.90
1	N	1021	A	N1-C2-N3	10.86	134.73	129.30
1	N	1343	G	O4'-C1'-N9	10.86	116.89	108.20
1	N	1378	C	O4'-C1'-N1	10.86	116.89	108.20
1	N	787	A	N1-C2-N3	10.86	134.73	129.30
1	N	28	A	N1-C6-N6	10.86	125.11	118.60
1	N	1038	C	N3-C4-C5	-10.86	117.56	121.90
1	N	595	A	C4-C5-N7	-10.86	105.27	110.70
1	N	581	G	O4'-C1'-N9	10.85	116.88	108.20
1	N	765	G	O4'-C1'-N9	10.85	116.88	108.20
1	N	364	A	C8-N9-C4	10.84	110.14	105.80
1	N	421	U	P-O3'-C3'	10.84	132.71	119.70
1	N	1048	G	O4'-C1'-N9	10.84	116.87	108.20
1	N	562	U	C6-N1-C2	-10.84	114.50	121.00
1	N	1242	G	C8-N9-C4	-10.84	102.06	106.40
1	N	1113	C	O4'-C1'-N1	10.84	116.87	108.20
1	N	515	G	C5-C6-O6	-10.83	122.10	128.60
1	N	814	A	C5-N7-C8	10.83	109.31	103.90
1	N	346	G	N1-C6-O6	10.83	126.40	119.90
1	N	1111	A	N1-C6-N6	10.83	125.10	118.60
1	N	345	C	P-O3'-C3'	10.82	132.68	119.70
1	N	1353	G	N1-C6-O6	10.82	126.39	119.90
1	N	450	G	N1-C6-O6	10.82	126.39	119.90
1	N	1290	G	N3-C2-N2	10.82	127.47	119.90
1	N	1282	C	N3-C4-N4	10.81	125.57	118.00
1	N	326	G	C5-C6-O6	-10.81	122.11	128.60
1	N	88	U	C5-C4-O4	-10.81	119.41	125.90
1	N	1197	A	C5-C6-N1	-10.81	112.30	117.70
1	N	290	C	N3-C4-C5	-10.80	117.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	503	C	N3-C4-N4	10.80	125.56	118.00
1	N	134	G	N3-C2-N2	10.80	127.46	119.90
1	N	570	G	C5-C6-O6	-10.80	122.12	128.60
1	N	768	A	N1-C6-N6	10.80	125.08	118.60
1	N	1133	G	C6-C5-N7	-10.80	123.92	130.40
1	N	1357	A	C5-C6-N6	-10.79	115.06	123.70
1	N	50	A	C4-C5-C6	10.79	122.40	117.00
1	N	1523	G	C5-C6-O6	-10.79	122.12	128.60
1	N	126	G	P-O3'-C3'	10.79	132.65	119.70
1	N	411	A	O4'-C1'-N9	10.79	116.83	108.20
1	N	942	G	C5-C6-O6	-10.79	122.13	128.60
1	N	1526	G	N1-C6-O6	10.79	126.37	119.90
1	N	218	U	C5-C4-O4	10.79	132.37	125.90
1	N	643	C	N3-C4-C5	-10.79	117.59	121.90
1	N	1014	A	O4'-C1'-N9	10.78	116.83	108.20
1	N	823	C	N3-C4-N4	10.78	125.55	118.00
1	N	1261	A	C5-C6-N6	-10.78	115.08	123.70
1	N	1263	C	P-O5'-C5'	10.78	138.15	120.90
1	N	1145	A	P-O5'-C5'	10.78	138.15	120.90
1	N	862	C	N3-C4-C5	-10.78	117.59	121.90
1	N	65	A	C5-C6-N6	-10.77	115.08	123.70
1	N	352	C	C5-C6-N1	10.77	126.38	121.00
1	N	378	G	O4'-C1'-N9	10.76	116.81	108.20
1	N	844	G	C5-C6-O6	-10.76	122.14	128.60
1	N	1038	C	C6-N1-C2	10.76	124.60	120.30
1	N	1384	C	N3-C4-C5	-10.76	117.60	121.90
1	N	799	G	O4'-C1'-N9	10.76	116.81	108.20
1	N	838	G	N1-C2-N3	-10.76	117.45	123.90
1	N	212	G	O4'-C1'-N9	10.75	116.80	108.20
1	N	899	C	C5-C6-N1	10.75	126.38	121.00
1	N	123	U	O4'-C1'-N1	10.75	116.80	108.20
1	N	1216	A	N1-C6-N6	10.75	125.05	118.60
1	N	858	G	C5-C6-O6	-10.74	122.15	128.60
1	N	1292	G	N1-C6-O6	10.74	126.35	119.90
1	N	910	C	C6-N1-C2	-10.74	116.00	120.30
1	N	1361	G	N9-C4-C5	-10.74	101.10	105.40
1	N	1065	U	P-O5'-C5'	10.74	138.09	120.90
1	N	1513	A	C4-C5-C6	10.74	122.37	117.00
1	N	119	A	N1-C6-N6	10.73	125.04	118.60
1	N	467	U	C2-N1-C1'	10.73	130.58	117.70
1	N	867	G	N9-C4-C5	-10.73	101.11	105.40
1	N	346	G	C5-C6-O6	-10.72	122.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1279	G	N1-C6-O6	10.72	126.33	119.90
1	N	567	G	N3-C2-N2	10.72	127.40	119.90
1	N	588	G	P-O5'-C5'	10.72	138.05	120.90
1	N	516	U	O4'-C1'-N1	10.71	116.77	108.20
1	N	948	C	O4'-C1'-N1	10.71	116.77	108.20
1	N	33	A	C8-N9-C4	-10.71	101.52	105.80
1	N	1007	U	O4'-C1'-N1	10.71	116.77	108.20
1	N	413	G	N1-C6-O6	10.70	126.32	119.90
1	N	558	G	C8-N9-C4	-10.70	102.12	106.40
1	N	721	G	O4'-C1'-N9	10.70	116.76	108.20
1	N	1094	G	N1-C6-O6	10.70	126.32	119.90
1	N	1434	A	C5-C6-N6	-10.69	115.15	123.70
1	N	490	C	N3-C4-N4	10.69	125.48	118.00
1	N	1292	G	C5-C6-O6	-10.68	122.19	128.60
1	N	1045	C	N3-C4-C5	-10.68	117.63	121.90
1	N	1274	A	P-O5'-C5'	10.68	137.99	120.90
1	N	533	A	N3-C4-C5	-10.68	119.32	126.80
1	N	339	C	O4'-C1'-N1	10.68	116.74	108.20
1	N	355	C	C5-C6-N1	10.68	126.34	121.00
1	N	1282	C	O4'-C1'-N1	10.68	116.74	108.20
1	N	1350	A	O4'-C1'-N9	10.68	116.74	108.20
1	N	345	C	N1-C2-O2	10.67	125.30	118.90
1	N	999	C	N3-C4-N4	10.67	125.47	118.00
1	N	1180	A	C4-C5-C6	10.67	122.34	117.00
1	N	595	A	C5-N7-C8	10.67	109.23	103.90
1	N	1093	A	C5-C6-N1	-10.66	112.37	117.70
1	N	1264	U	P-O5'-C5'	10.66	137.96	120.90
1	N	1243	C	C6-N1-C2	-10.66	116.03	120.30
1	N	546	A	C5-N7-C8	10.66	109.23	103.90
1	N	1035	A	O4'-C1'-N9	10.66	116.72	108.20
1	N	1186	G	C4-C5-N7	10.66	115.06	110.80
1	N	1307	U	C5-C6-N1	10.66	128.03	122.70
1	N	1090	U	P-O3'-C3'	10.65	132.48	119.70
1	N	183	C	N3-C4-C5	-10.65	117.64	121.90
1	N	104	G	N9-C4-C5	-10.65	101.14	105.40
1	N	271	C	O4'-C1'-N1	10.65	116.72	108.20
1	N	848	C	N3-C4-N4	10.65	125.45	118.00
1	N	1071	C	O4'-C1'-N1	10.64	116.71	108.20
1	N	596	A	C4-C5-C6	10.64	122.32	117.00
1	N	808	C	N3-C4-N4	10.64	125.45	118.00
1	N	1181	G	C5-C6-N1	-10.64	106.18	111.50
1	N	144	G	C5-C6-O6	-10.63	122.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	747	A	C4-C5-C6	10.64	122.32	117.00
1	N	1155	A	N1-C6-N6	10.64	124.98	118.60
1	N	704	A	O4'-C1'-N9	10.63	116.71	108.20
1	N	1361	G	C5-C6-O6	-10.63	122.22	128.60
1	N	1428	A	C5-C6-N1	-10.63	112.38	117.70
1	N	1241	G	P-O5'-C5'	10.63	137.91	120.90
1	N	903	G	N1-C6-O6	10.63	126.28	119.90
1	N	38	G	O4'-C1'-N9	10.62	116.70	108.20
1	N	609	A	C5-C6-N1	-10.62	112.39	117.70
1	N	530	G	P-O3'-C3'	10.62	132.44	119.70
1	N	727	G	C4-C5-N7	-10.62	106.55	110.80
1	N	466	A	C5-C6-N6	-10.62	115.21	123.70
1	N	1033	G	C5-C6-O6	-10.62	122.23	128.60
1	N	7	A	N1-C6-N6	10.62	124.97	118.60
1	N	331	G	N1-C2-N3	-10.62	117.53	123.90
1	N	578	C	N3-C2-O2	10.61	129.33	121.90
1	N	1111	A	C5-N7-C8	10.61	109.21	103.90
1	N	338	A	C5-C6-N1	-10.61	112.39	117.70
1	N	1417	G	C5-C6-N1	-10.61	106.19	111.50
1	N	81	A	N1-C6-N6	10.61	124.97	118.60
1	N	1493	A	O4'-C1'-N9	10.61	116.69	108.20
1	N	144	G	N1-C6-O6	10.61	126.26	119.90
1	N	1288	A	C5-C6-N1	-10.61	112.40	117.70
1	N	985	C	O4'-C1'-N1	10.61	116.68	108.20
1	N	36	C	N3-C4-N4	10.60	125.42	118.00
1	N	98	A	N1-C2-N3	10.60	134.60	129.30
1	N	655	A	N1-C6-N6	10.60	124.96	118.60
1	N	1355	G	N9-C4-C5	10.60	109.64	105.40
1	N	531	U	O4'-C1'-N1	10.59	116.67	108.20
1	N	998	C	N3-C4-N4	10.59	125.41	118.00
1	N	1516	G	N1-C6-O6	10.59	126.25	119.90
1	N	401	C	N3-C4-N4	10.58	125.41	118.00
1	N	632	U	O4'-C1'-N1	10.58	116.67	108.20
1	N	1130	A	N1-C2-N3	10.58	134.59	129.30
1	N	98	A	C5-C6-N1	-10.58	112.41	117.70
1	N	739	C	O4'-C1'-N1	10.58	116.66	108.20
1	N	1178	G	C5-C6-O6	-10.58	122.25	128.60
1	N	1179	A	C5-N7-C8	10.57	109.19	103.90
1	N	868	C	N3-C4-N4	10.57	125.40	118.00
1	N	1147	C	N3-C4-N4	10.57	125.40	118.00
1	N	571	U	C5-C6-N1	10.57	127.98	122.70
1	N	819	A	C5-C6-N1	-10.57	112.42	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	374	A	N1-C6-N6	10.56	124.94	118.60
1	N	514	C	O4'-C1'-N1	10.56	116.65	108.20
1	N	845	A	N1-C6-N6	10.56	124.94	118.60
1	N	500	G	O4'-C1'-N9	10.56	116.65	108.20
1	N	969	A	O4'-C1'-N9	10.56	116.65	108.20
1	N	1030	U	O4'-C1'-N1	10.55	116.64	108.20
1	N	1362	A	C5-C6-N1	-10.55	112.42	117.70
1	N	895	G	N3-C2-N2	10.55	127.29	119.90
1	N	628	G	C5-C6-O6	-10.54	122.27	128.60
1	N	895	G	P-O5'-C5'	10.54	137.77	120.90
1	N	1256	A	C5-C6-N1	-10.55	112.43	117.70
1	N	1284	C	C5-C4-N4	-10.54	112.82	120.20
1	N	381	C	N3-C4-C5	-10.54	117.69	121.90
1	N	589	U	P-O5'-C5'	10.53	137.75	120.90
1	N	1117	A	C4-C5-C6	10.53	122.26	117.00
1	N	1227	A	N1-C6-N6	10.53	124.92	118.60
1	N	917	G	C5-C6-O6	-10.53	122.28	128.60
1	N	374	A	C5-N7-C8	10.52	109.16	103.90
1	N	1118	U	O4'-C1'-N1	10.52	116.61	108.20
1	N	1278	G	N1-C2-N3	-10.52	117.59	123.90
1	N	807	A	C4-C5-C6	10.52	122.26	117.00
1	N	1476	A	N1-C6-N6	10.52	124.91	118.60
1	N	607	A	C5-C6-N6	-10.51	115.29	123.70
1	N	708	C	O4'-C1'-N1	10.51	116.61	108.20
1	N	1292	G	N7-C8-N9	-10.51	107.84	113.10
1	N	616	G	C6-C5-N7	-10.51	124.09	130.40
1	N	1045	C	O4'-C1'-N1	10.51	116.61	108.20
1	N	1522	U	N3-C2-O2	10.51	129.56	122.20
1	N	1215	G	O4'-C1'-N9	10.51	116.61	108.20
1	N	391	G	C5-C6-O6	-10.51	122.30	128.60
1	N	637	C	N3-C4-N4	10.50	125.35	118.00
1	N	102	G	C5-C6-O6	-10.50	122.30	128.60
1	N	138	G	N1-C6-O6	10.50	126.20	119.90
1	N	375	U	C5-C6-N1	10.50	127.95	122.70
1	N	1018	G	C5-C6-O6	-10.50	122.30	128.60
1	N	203	G	C4-C5-C6	10.49	125.10	118.80
1	N	507	C	O4'-C1'-N1	10.49	116.60	108.20
1	N	823	C	C5-C4-N4	-10.49	112.86	120.20
1	N	1280	A	O4'-C1'-N9	10.49	116.59	108.20
1	N	1089	G	C5-C6-O6	-10.49	122.31	128.60
1	N	470	C	N3-C4-N4	10.49	125.34	118.00
1	N	71	A	C4-C5-C6	10.48	122.24	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	406	G	N1-C6-O6	10.48	126.19	119.90
1	N	443	C	O4'-C1'-N1	10.48	116.58	108.20
1	N	76	G	C5-C6-O6	-10.47	122.31	128.60
1	N	243	A	C5-C6-N1	-10.47	112.46	117.70
1	N	419	C	C5-C6-N1	10.47	126.24	121.00
1	N	1268	G	N3-C2-N2	10.47	127.23	119.90
1	N	849	G	C5-C6-O6	-10.47	122.32	128.60
1	N	911	U	O4'-C1'-N1	10.47	116.58	108.20
1	N	1127	G	C8-N9-C4	-10.47	102.21	106.40
1	N	1039	G	C2-N3-C4	10.47	117.13	111.90
1	N	742	G	C5-C6-O6	-10.46	122.32	128.60
1	N	749	A	C5-C6-N6	-10.46	115.33	123.70
1	N	680	C	O4'-C1'-N1	10.46	116.57	108.20
1	N	450	G	C2-N3-C4	-10.46	106.67	111.90
1	N	747	A	O4'-C1'-N9	10.46	116.57	108.20
1	N	1460	C	N3-C4-C5	-10.46	117.72	121.90
1	N	122	G	C6-C5-N7	-10.45	124.13	130.40
1	N	728	A	C5-C6-N6	-10.45	115.34	123.70
1	N	402	G	C5-C6-O6	-10.45	122.33	128.60
1	N	544	G	C5-C6-O6	-10.45	122.33	128.60
1	N	291	U	C5-C6-N1	10.44	127.92	122.70
1	N	1039	G	C5-C6-O6	-10.44	122.34	128.60
1	N	630	A	P-O3'-C3'	10.44	132.22	119.70
1	N	236	A	N1-C6-N6	10.43	124.86	118.60
1	N	352	C	C5-C4-N4	-10.43	112.90	120.20
1	N	1501	C	N3-C4-N4	10.43	125.30	118.00
1	N	105	G	C5-C6-O6	-10.43	122.34	128.60
1	N	120	A	C1'-O4'-C4'	-10.43	101.56	109.90
1	N	591	U	O4'-C1'-N1	10.43	116.54	108.20
1	N	1148	U	O4'-C1'-N1	10.43	116.54	108.20
1	N	416	G	C4-C5-C6	10.43	125.06	118.80
1	N	1294	G	C4-C5-N7	10.43	114.97	110.80
1	N	1184	G	N1-C2-N3	-10.42	117.65	123.90
1	N	1315	U	N3-C2-O2	10.42	129.50	122.20
1	N	80	A	N1-C6-N6	10.42	124.85	118.60
1	N	509	A	C4-C5-C6	10.42	122.21	117.00
1	N	78	A	N1-C6-N6	10.42	124.85	118.60
1	N	1361	G	C4-C5-N7	10.42	114.97	110.80
1	N	602	A	C2-N3-C4	-10.41	105.39	110.60
1	N	1469	C	N3-C4-N4	10.41	125.29	118.00
1	N	61	G	C5-C6-O6	-10.40	122.36	128.60
1	N	39	G	O4'-C1'-N9	10.40	116.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	164	G	O4'-C1'-N9	10.40	116.52	108.20
1	N	462	G	O4'-C1'-N9	10.40	116.52	108.20
1	N	873	A	C8-N9-C4	-10.40	101.64	105.80
1	N	736	C	O4'-C1'-N1	10.40	116.52	108.20
1	N	1007	U	N3-C4-O4	10.40	126.68	119.40
1	N	87	C	O4'-C1'-N1	10.39	116.52	108.20
1	N	887	G	N7-C8-N9	-10.39	107.90	113.10
1	N	1073	U	O4'-C1'-N1	10.39	116.51	108.20
1	N	146	G	C5-C6-O6	-10.39	122.37	128.60
1	N	388	G	N3-C2-N2	10.39	127.17	119.90
1	N	88	U	N3-C4-O4	10.39	126.67	119.40
1	N	854	U	P-O3'-C3'	-10.39	107.24	119.70
1	N	103	U	O4'-C1'-N1	10.38	116.51	108.20
1	N	927	G	N1-C6-O6	10.38	126.13	119.90
1	N	948	C	N3-C4-C5	-10.38	117.75	121.90
1	N	996	A	C4-C5-C6	10.37	122.19	117.00
1	N	1398	A	N9-C4-C5	-10.38	101.65	105.80
1	N	1149	C	N3-C4-N4	10.37	125.26	118.00
1	N	9	G	N1-C2-N3	-10.36	117.68	123.90
1	N	197	A	C5-N7-C8	10.37	109.08	103.90
1	N	257	G	C4-C5-N7	10.36	114.94	110.80
1	N	318	G	C6-C5-N7	-10.36	124.19	130.40
1	N	892	A	O4'-C1'-N9	10.36	116.48	108.20
1	N	1087	G	P-O5'-C5'	10.35	137.47	120.90
1	N	40	C	N3-C4-C5	-10.35	117.76	121.90
1	N	706	A	N1-C6-N6	10.35	124.81	118.60
1	N	1166	G	C8-N9-C4	-10.35	102.26	106.40
1	N	1410	A	C6-N1-C2	10.35	124.81	118.60
1	N	26	A	C4-C5-C6	10.35	122.17	117.00
1	N	265	G	O4'-C1'-N9	10.35	116.48	108.20
1	N	1002	G	C5-C6-O6	-10.35	122.39	128.60
1	N	705	G	C5-C6-O6	-10.34	122.39	128.60
1	N	1092	A	O4'-C1'-N9	10.34	116.47	108.20
1	N	435	A	N1-C6-N6	10.34	124.80	118.60
1	N	580	C	C2-N1-C1'	10.33	130.16	118.80
1	N	175	C	O4'-C1'-N1	10.33	116.46	108.20
1	N	719	C	O4'-C1'-N1	10.33	116.46	108.20
1	N	805	C	P-O5'-C5'	10.33	137.43	120.90
1	N	910	C	O4'-C1'-N1	10.32	116.46	108.20
1	N	1417	G	C5-N7-C8	10.32	109.46	104.30
1	N	853	C	N1-C2-O2	10.31	125.09	118.90
1	N	1168	U	C5-C6-N1	10.31	127.86	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	276	G	C5-C6-O6	-10.31	122.41	128.60
1	N	577	G	N1-C6-O6	10.31	126.09	119.90
1	N	1063	C	O4'-C1'-N1	10.31	116.45	108.20
1	N	719	C	C2-N3-C4	-10.31	114.75	119.90
1	N	1476	A	O4'-C1'-N9	10.31	116.45	108.20
1	N	194	C	O4'-C1'-N1	10.30	116.44	108.20
1	N	777	A	C5-C6-N1	-10.30	112.55	117.70
1	N	1169	A	C5-C6-N1	-10.30	112.55	117.70
1	N	861	G	C5-C6-O6	-10.29	122.42	128.60
1	N	732	C	O4'-C1'-N1	10.29	116.43	108.20
1	N	840	C	O4'-C1'-N1	10.29	116.43	108.20
1	N	1246	A	C6-C5-N7	-10.29	125.10	132.30
1	N	176	C	C5-C6-N1	10.29	126.14	121.00
1	N	122	G	N1-C6-O6	10.28	126.07	119.90
1	N	392	C	N3-C4-C5	-10.28	117.79	121.90
1	N	569	C	C6-N1-C2	-10.28	116.19	120.30
1	N	642	A	N1-C2-N3	10.28	134.44	129.30
1	N	859	G	C8-N9-C4	10.28	110.51	106.40
1	N	1184	G	N1-C6-O6	10.27	126.06	119.90
1	N	1467	C	O4'-C1'-N1	10.27	116.42	108.20
1	N	996	A	N1-C6-N6	10.27	124.76	118.60
1	N	1038	C	O4'-C1'-N1	10.27	116.41	108.20
1	N	41	G	C5-C6-O6	-10.26	122.44	128.60
1	N	1429	A	C5-C6-N1	-10.26	112.57	117.70
1	N	1329	A	C4-C5-C6	10.25	122.13	117.00
1	N	1504	G	C5-C6-O6	-10.25	122.45	128.60
1	N	384	G	C5-C6-O6	-10.25	122.45	128.60
1	N	823	C	O4'-C1'-N1	10.24	116.39	108.20
1	N	1499	A	N1-C6-N6	10.24	124.75	118.60
1	N	1140	C	N3-C4-N4	10.24	125.17	118.00
1	N	79	G	O4'-C1'-N9	10.24	116.39	108.20
1	N	411	A	C5-C6-N6	-10.24	115.51	123.70
1	N	841	C	N3-C4-N4	10.24	125.17	118.00
1	N	909	A	C8-N9-C4	-10.24	101.71	105.80
1	N	1223	C	C5-C6-N1	10.23	126.12	121.00
1	N	181	A	P-O3'-C3'	10.23	131.98	119.70
1	N	182	A	C8-N9-C4	-10.23	101.71	105.80
1	N	794	A	C5-C6-N6	-10.23	115.52	123.70
1	N	894	G	N1-C2-N3	-10.23	117.76	123.90
1	N	52	C	O4'-C1'-N1	10.23	116.38	108.20
1	N	864	A	P-O3'-C3'	10.23	131.97	119.70
1	N	260	G	P-O3'-C3'	10.23	131.97	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	141	G	O4'-C1'-N9	10.22	116.38	108.20
1	N	39	G	N1-C6-O6	10.22	126.03	119.90
1	N	144	G	O4'-C1'-N9	10.22	116.38	108.20
1	N	1058	G	N1-C2-N3	-10.22	117.77	123.90
1	N	928	G	C5-C6-O6	-10.22	122.47	128.60
1	N	452	A	C6-C5-N7	-10.21	125.15	132.30
1	N	67	C	O4'-C1'-N1	10.21	116.37	108.20
1	N	1124	G	O4'-C1'-N9	10.21	116.36	108.20
1	N	785	G	N9-C4-C5	-10.20	101.32	105.40
1	N	492	C	N3-C4-C5	-10.20	117.82	121.90
1	N	918	A	O4'-C1'-N9	10.20	116.36	108.20
1	N	1089	G	N1-C2-N3	-10.20	117.78	123.90
1	N	1308	U	N3-C4-C5	-10.20	108.48	114.60
1	N	864	A	C6-N1-C2	-10.20	112.48	118.60
1	N	1088	G	O4'-C1'-N9	10.19	116.36	108.20
1	N	246	A	P-O3'-C3'	10.19	131.93	119.70
1	N	1096	C	P-O5'-C5'	10.19	137.20	120.90
1	N	1035	A	C4-C5-C6	10.19	122.09	117.00
1	N	431	A	O4'-C4'-C3'	-10.19	93.81	104.00
1	N	715	A	C4-C5-C6	10.19	122.09	117.00
1	N	475	C	N3-C4-C5	-10.18	117.83	121.90
1	N	216	U	N1-C2-O2	-10.18	115.68	122.80
1	N	1130	A	C5-C6-N6	-10.18	115.56	123.70
1	N	846	G	C5'-C4'-C3'	-10.18	99.72	116.00
1	N	1110	A	N1-C6-N6	10.18	124.70	118.60
1	N	57	G	C5-C6-N1	-10.17	106.41	111.50
1	N	651	C	C2-N3-C4	10.17	124.99	119.90
1	N	1069	C	C2-N3-C4	10.17	124.99	119.90
1	N	36	C	O4'-C1'-N1	10.17	116.34	108.20
1	N	52	C	N3-C4-C5	-10.16	117.83	121.90
1	N	1028	C	N3-C4-N4	10.16	125.11	118.00
1	N	336	A	C8-N9-C4	-10.16	101.73	105.80
1	N	48	C	C4-C5-C6	10.16	122.48	117.40
1	N	1041	G	C5-C6-N1	-10.16	106.42	111.50
1	N	1454	G	N3-C2-N2	10.16	127.01	119.90
1	N	1094	G	C5-C6-O6	-10.16	122.51	128.60
1	N	877	G	C5-C6-O6	-10.15	122.51	128.60
1	N	948	C	C5'-C4'-O4'	10.15	121.29	109.10
1	N	831	A	C4-C5-C6	10.15	122.08	117.00
1	N	644	U	O4'-C1'-N1	10.15	116.32	108.20
1	N	576	C	P-O3'-C3'	10.15	131.88	119.70
1	N	1374	A	O4'-C1'-N9	10.14	116.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	718	A	N1-C2-N3	10.14	134.37	129.30
1	N	1031	C	N1-C2-O2	10.14	124.98	118.90
1	N	222	C	O4'-C1'-N1	10.14	116.31	108.20
1	N	432	A	C5-C6-N6	-10.14	115.59	123.70
1	N	1120	C	C6-N1-C2	-10.14	116.25	120.30
1	N	1258	G	N1-C2-N3	-10.14	117.82	123.90
1	N	197	A	C5'-C4'-C3'	10.13	132.21	116.00
1	N	202	G	P-O3'-C3'	10.13	131.86	119.70
1	N	17	U	O4'-C1'-N1	10.13	116.30	108.20
1	N	745	G	N1-C6-O6	10.13	125.98	119.90
1	N	506	G	O4'-C1'-N9	10.12	116.30	108.20
1	N	681	A	N1-C6-N6	10.13	124.68	118.60
1	N	1458	G	C6-C5-N7	-10.12	124.33	130.40
1	N	143	A	N1-C6-N6	10.12	124.67	118.60
1	N	803	G	N1-C6-O6	10.12	125.97	119.90
1	N	1117	A	N1-C6-N6	10.12	124.67	118.60
1	N	199	A	C5-C6-N6	-10.12	115.61	123.70
1	N	293	G	N1-C2-N3	-10.12	117.83	123.90
1	N	601	G	O4'-C1'-N9	10.12	116.30	108.20
1	N	629	A	C5-C6-N1	-10.11	112.64	117.70
1	N	714	G	N3-C4-C5	10.11	133.66	128.60
1	N	1161	C	C2-N3-C4	10.11	124.95	119.90
1	N	841	C	C6-N1-C1'	-10.11	108.67	120.80
1	N	1371	G	C5-C6-O6	-10.11	122.53	128.60
1	N	302	G	C4-C5-N7	-10.11	106.76	110.80
1	N	417	G	N3-C2-N2	10.10	126.97	119.90
1	N	1241	G	C8-N9-C4	10.10	110.44	106.40
1	N	78	A	C6-C5-N7	-10.10	125.23	132.30
1	N	715	A	C5-C6-N1	-10.10	112.65	117.70
1	N	1441	A	O4'-C1'-N9	10.10	116.28	108.20
1	N	547	A	C5-C6-N6	-10.10	115.62	123.70
1	N	560	A	N1-C2-N3	10.10	134.35	129.30
1	N	729	A	C5-C6-N6	-10.10	115.62	123.70
1	N	799	G	N3-C4-C5	10.10	133.65	128.60
1	N	1507	A	N1-C6-N6	10.10	124.66	118.60
1	N	316	C	N1-C2-O2	10.09	124.95	118.90
1	N	944	G	C8-N9-C4	-10.09	102.36	106.40
1	N	907	A	C4-C5-N7	-10.08	105.66	110.70
1	N	1229	A	C4-C5-C6	10.08	122.04	117.00
1	N	204	G	P-O5'-C5'	10.07	137.01	120.90
1	N	505	G	C5-C6-O6	-10.07	122.56	128.60
1	N	1367	C	C5-C4-N4	-10.07	113.15	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	293	G	C6-N1-C2	10.07	131.14	125.10
1	N	884	U	P-O3'-C3'	10.07	131.78	119.70
1	N	1483	A	O4'-C1'-N9	10.07	116.25	108.20
1	N	565	U	O4'-C1'-N1	10.06	116.25	108.20
1	N	988	G	C5-N7-C8	10.06	109.33	104.30
1	N	975	A	C2-N3-C4	-10.06	105.57	110.60
1	N	1396	A	C2-N3-C4	-10.06	105.57	110.60
1	N	1366	C	C4-C5-C6	10.06	122.43	117.40
1	N	335	C	N3-C4-N4	10.05	125.04	118.00
1	N	1229	A	N1-C6-N6	10.05	124.63	118.60
1	N	810	C	O4'-C1'-N1	10.05	116.24	108.20
1	N	1053	G	N7-C8-N9	-10.05	108.07	113.10
1	N	21	G	C5-C6-O6	-10.05	122.57	128.60
1	N	1200	C	N3-C4-C5	-10.05	117.88	121.90
1	N	1327	C	N3-C4-C5	-10.05	117.88	121.90
1	N	480	U	P-O3'-C3'	10.04	131.75	119.70
1	N	257	G	C5-C6-O6	-10.04	122.58	128.60
1	N	780	A	N1-C2-N3	10.04	134.32	129.30
1	N	943	U	N3-C4-C5	-10.03	108.58	114.60
1	N	315	A	O4'-C1'-N9	10.03	116.22	108.20
1	N	465	A	C5-C6-N1	-10.03	112.69	117.70
1	N	1433	A	C4-C5-C6	10.03	122.01	117.00
1	N	46	G	C5-C6-O6	-10.02	122.59	128.60
1	N	251	G	C5-C6-O6	-10.02	122.59	128.60
1	N	1090	U	O4'-C1'-N1	10.02	116.22	108.20
1	N	1402	C	O4'-C1'-N1	10.02	116.22	108.20
1	N	43	C	O4'-C1'-N1	10.02	116.22	108.20
1	N	1357	A	C4-C5-C6	10.02	122.01	117.00
1	N	718	A	C5-N7-C8	10.02	108.91	103.90
1	N	1188	A	C4-C5-C6	10.02	122.01	117.00
1	N	495	A	C4-C5-C6	10.02	122.01	117.00
1	N	814	A	C4-C5-C6	10.02	122.01	117.00
1	N	1476	A	N9-C4-C5	-10.02	101.79	105.80
1	N	1053	G	C5-N7-C8	10.01	109.31	104.30
1	N	220	G	N1-C6-O6	10.01	125.91	119.90
1	N	1499	A	N1-C2-N3	-10.01	124.30	129.30
1	N	508	U	C2-N3-C4	-10.01	121.00	127.00
1	N	1464	U	N3-C4-C5	-10.01	108.60	114.60
1	N	985	C	P-O5'-C5'	10.01	136.91	120.90
1	N	808	C	C5-C4-N4	-10.00	113.20	120.20
1	N	1149	C	C5-C4-N4	-10.00	113.20	120.20
1	N	1494	G	C5-C6-N1	-10.00	106.50	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	74	A	C5-C6-N6	-9.99	115.70	123.70
1	N	825	A	C6-C5-N7	-9.99	125.31	132.30
1	N	1446	A	C4-C5-C6	9.99	122.00	117.00
1	N	192	A	C8-N9-C4	-9.99	101.81	105.80
1	N	1044	A	C5-C6-N1	-9.98	112.71	117.70
1	N	490	C	N3-C4-C5	-9.98	117.91	121.90
1	N	155	A	C4-C5-C6	9.98	121.99	117.00
1	N	1303	C	O4'-C1'-N1	9.98	116.19	108.20
1	N	165	G	C5-C6-O6	-9.98	122.61	128.60
1	N	1126	U	N1-C2-N3	9.97	120.88	114.90
1	N	1150	A	C4-C5-C6	9.96	121.98	117.00
1	N	1175	G	C6-C5-N7	-9.96	124.42	130.40
1	N	216	U	P-O3'-C3'	9.96	131.65	119.70
1	N	1031	C	N1-C2-N3	-9.96	112.23	119.20
1	N	1492	A	N1-C6-N6	9.95	124.57	118.60
1	N	663	A	C5-C6-N6	-9.95	115.74	123.70
1	N	785	G	N3-C4-C5	9.95	133.57	128.60
1	N	1447	A	C5-C6-N6	-9.95	115.74	123.70
1	N	1049	U	C2-N3-C4	-9.94	121.03	127.00
1	N	1333	A	C5-C6-N1	9.94	122.67	117.70
1	N	961	U	O4'-C1'-N1	9.94	116.15	108.20
1	N	1032	G	O4'-C1'-N9	9.94	116.15	108.20
1	N	312	C	C6-N1-C2	9.94	124.28	120.30
1	N	724	G	O4'-C1'-N9	9.93	116.15	108.20
1	N	740	U	O4'-C1'-N1	9.93	116.15	108.20
1	N	1068	G	O4'-C1'-N9	9.93	116.14	108.20
1	N	1111	A	O4'-C1'-N9	9.93	116.14	108.20
1	N	1169	A	C4-C5-C6	9.93	121.97	117.00
1	N	579	A	C5-N7-C8	9.93	108.86	103.90
1	N	1500	A	N9-C4-C5	-9.93	101.83	105.80
1	N	265	G	P-O3'-C3'	9.93	131.61	119.70
1	N	50	A	O4'-C1'-N9	9.92	116.14	108.20
1	N	528	C	C5-C6-N1	9.92	125.96	121.00
1	N	877	G	N1-C2-N3	-9.92	117.95	123.90
1	N	1394	A	C4-C5-C6	9.92	121.96	117.00
1	N	284	C	C5-C4-N4	-9.92	113.26	120.20
1	N	1156	G	C5-C6-O6	-9.91	122.65	128.60
1	N	97	G	C5-C6-O6	-9.91	122.65	128.60
1	N	655	A	C4-C5-C6	9.91	121.95	117.00
1	N	1372	U	O4'-C1'-N1	9.91	116.13	108.20
1	N	8	A	C5-C6-N1	-9.91	112.75	117.70
1	N	2	A	O4'-C1'-N9	9.90	116.12	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	280	C	P-O3'-C3'	9.90	131.59	119.70
1	N	406	G	N3-C2-N2	9.90	126.83	119.90
1	N	38	G	N1-C6-O6	9.90	125.84	119.90
1	N	1517	G	N3-C4-C5	9.90	133.55	128.60
1	N	152	A	N1-C6-N6	9.90	124.54	118.60
1	N	1438	G	C6-N1-C2	9.90	131.04	125.10
1	N	672	U	P-O3'-C3'	-9.90	107.82	119.70
1	N	924	C	C5-C6-N1	9.90	125.95	121.00
1	N	454	G	N1-C6-O6	9.89	125.84	119.90
1	N	675	A	C5-C6-N1	-9.89	112.75	117.70
1	N	1400	C	C2-N3-C4	9.89	124.84	119.90
1	N	203	G	N1-C6-O6	9.89	125.83	119.90
1	N	330	C	C5-C6-N1	9.89	125.94	121.00
1	N	35	G	N7-C8-N9	9.88	118.04	113.10
1	N	1464	U	N3-C4-O4	9.89	126.32	119.40
1	N	184	G	C8-N9-C4	-9.88	102.45	106.40
1	N	391	G	N1-C2-N3	-9.88	117.97	123.90
1	N	270	A	C8-N9-C4	-9.87	101.85	105.80
1	N	898	G	O4'-C1'-N9	9.87	116.10	108.20
1	N	100	G	C4-C5-N7	9.87	114.75	110.80
1	N	696	A	C8-N9-C4	-9.86	101.86	105.80
1	N	1199	U	O4'-C1'-N1	9.86	116.09	108.20
1	N	1295	U	C5-C6-N1	9.86	127.63	122.70
1	N	1324	A	C4-C5-C6	9.86	121.93	117.00
1	N	1330	U	N1-C2-N3	-9.86	108.99	114.90
1	N	1005	A	C5-C6-N1	-9.85	112.77	117.70
1	N	379	C	C2-N3-C4	9.85	124.83	119.90
1	N	783	C	C6-N1-C2	-9.85	116.36	120.30
1	N	1226	C	N3-C4-N4	9.85	124.90	118.00
1	N	977	A	C8-N9-C4	-9.84	101.86	105.80
1	N	92	U	O4'-C1'-N1	9.84	116.07	108.20
1	N	250	A	N9-C4-C5	-9.84	101.86	105.80
1	N	861	G	N1-C6-O6	9.84	125.80	119.90
1	N	1384	C	N3-C4-N4	9.84	124.89	118.00
1	N	631	C	N3-C4-C5	-9.84	117.97	121.90
1	N	60	A	P-O3'-C3'	9.83	131.50	119.70
1	N	117	G	C8-N9-C4	-9.83	102.47	106.40
1	N	153	C	O4'-C1'-N1	9.83	116.06	108.20
1	N	220	G	O4'-C1'-N9	9.83	116.06	108.20
1	N	842	U	P-O5'-C5'	9.83	136.63	120.90
1	N	12	U	O4'-C1'-N1	9.83	116.06	108.20
1	N	110	C	C4-C5-C6	9.83	122.31	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	835	U	C6-N1-C2	-9.82	115.11	121.00
1	N	865	A	C4-C5-C6	9.82	121.91	117.00
1	N	889	A	C5-C6-N6	-9.82	115.84	123.70
1	N	276	G	C5-N7-C8	-9.82	99.39	104.30
1	N	384	G	C8-N9-C4	-9.81	102.48	106.40
1	N	368	U	O4'-C1'-N1	9.81	116.05	108.20
1	N	780	A	N9-C4-C5	9.80	109.72	105.80
1	N	2	A	C5-C6-N6	-9.80	115.86	123.70
1	N	729	A	O4'-C1'-N9	9.80	116.04	108.20
1	N	1200	C	C6-N1-C2	-9.80	116.38	120.30
1	N	159	G	C5-C6-O6	-9.80	122.72	128.60
1	N	488	C	N3-C4-N4	9.80	124.86	118.00
1	N	1508	A	C4-C5-C6	9.80	121.90	117.00
1	N	790	A	O4'-C1'-N9	9.79	116.04	108.20
1	N	1226	C	P-O3'-C3'	9.80	131.46	119.70
1	N	844	G	N1-C6-O6	9.79	125.78	119.90
1	N	1423	G	N3-C4-C5	9.79	133.50	128.60
1	N	192	A	C5-C6-N6	-9.79	115.86	123.70
1	N	587	G	P-O3'-C3'	9.79	131.45	119.70
1	N	743	A	C5-C6-N1	-9.79	112.81	117.70
1	N	1103	C	C2-N3-C4	9.79	124.80	119.90
1	N	418	C	O4'-C1'-N1	9.79	116.03	108.20
1	N	1001	C	C5-C6-N1	9.78	125.89	121.00
1	N	743	A	C2-N3-C4	-9.78	105.71	110.60
1	N	410	G	C5-C6-O6	-9.78	122.73	128.60
1	N	642	A	C8-N9-C4	-9.78	101.89	105.80
1	N	794	A	C6-N1-C2	-9.77	112.74	118.60
1	N	1029	U	N3-C4-O4	9.77	126.24	119.40
1	N	1255	G	C4-C5-C6	9.77	124.66	118.80
1	N	576	C	C4-C5-C6	9.77	122.28	117.40
1	N	176	C	C6-N1-C2	-9.77	116.39	120.30
1	N	1217	C	C5-C4-N4	-9.77	113.36	120.20
1	N	693	G	N1-C2-N3	-9.77	118.04	123.90
1	N	730	G	N1-C2-N3	-9.77	118.04	123.90
1	N	765	G	C8-N9-C4	-9.77	102.49	106.40
1	N	1242	G	N1-C6-O6	9.77	125.76	119.90
1	N	1266	G	C5-C6-O6	-9.77	122.74	128.60
1	N	304	U	C5-C4-O4	-9.76	120.04	125.90
1	N	546	A	C4-C5-C6	9.76	121.88	117.00
1	N	1226	C	C6-N1-C2	9.76	124.20	120.30
1	N	361	G	N3-C4-C5	-9.76	123.72	128.60
1	N	642	A	N1-C6-N6	9.75	124.45	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1292	G	C5-N7-C8	9.75	109.18	104.30
1	N	1485	U	O4'-C1'-N1	9.75	116.00	108.20
1	N	1157	A	C6-N1-C2	9.75	124.45	118.60
1	N	32	A	C5-C6-N1	-9.74	112.83	117.70
1	N	150	U	C2-N3-C4	-9.74	121.16	127.00
1	N	977	A	C5-C6-N6	-9.74	115.91	123.70
1	N	212	G	P-O5'-C5'	9.74	136.48	120.90
1	N	431	A	C1'-O4'-C4'	9.73	117.69	109.90
1	N	771	G	C5-C6-O6	-9.73	122.76	128.60
1	N	843	U	C2-N1-C1'	9.73	129.38	117.70
1	N	592	G	C2-N3-C4	9.73	116.77	111.90
1	N	847	G	C5-C6-O6	-9.73	122.76	128.60
1	N	1510	C	N3-C4-N4	9.73	124.81	118.00
1	N	1389	C	C5-C6-N1	9.73	125.86	121.00
1	N	63	C	C4-C5-C6	9.73	122.27	117.40
1	N	532	A	O4'-C1'-N9	9.73	115.98	108.20
1	N	630	A	C5-C6-N1	-9.73	112.84	117.70
1	N	677	U	N3-C4-O4	9.72	126.21	119.40
1	N	1453	G	C5-C6-O6	-9.72	122.77	128.60
1	N	964	A	C8-N9-C4	-9.72	101.91	105.80
1	N	1102	A	C4-C5-N7	-9.72	105.84	110.70
1	N	476	U	C5-C4-O4	-9.72	120.07	125.90
1	N	588	G	C8-N9-C4	-9.71	102.51	106.40
1	N	929	G	C6-C5-N7	-9.71	124.57	130.40
1	N	1139	G	N1-C6-O6	9.71	125.73	119.90
1	N	767	A	N1-C6-N6	9.71	124.43	118.60
1	N	256	U	N3-C4-O4	9.71	126.19	119.40
1	N	595	A	N9-C4-C5	9.71	109.68	105.80
1	N	46	G	O4'-C1'-N9	9.70	115.96	108.20
1	N	1072	G	N1-C6-O6	9.70	125.72	119.90
1	N	1224	U	C4-C5-C6	9.70	125.52	119.70
1	N	1516	G	N1-C2-N3	-9.70	118.08	123.90
1	N	484	G	N1-C6-O6	9.70	125.72	119.90
1	N	1052	U	O4'-C1'-N1	9.70	115.96	108.20
1	N	357	G	C5-C6-O6	-9.70	122.78	128.60
1	N	578	C	C2-N3-C4	9.70	124.75	119.90
1	N	966	G	O4'-C1'-N9	9.70	115.96	108.20
1	N	1124	G	N3-C2-N2	9.70	126.69	119.90
1	N	1164	G	C8-N9-C4	-9.69	102.52	106.40
1	N	324	G	C6-C5-N7	-9.69	124.58	130.40
1	N	356	A	C6-C5-N7	-9.69	125.52	132.30
1	N	532	A	N1-C2-N3	-9.69	124.46	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1181	G	C6-N1-C2	9.68	130.91	125.10
1	N	1392	G	C5-C6-O6	-9.68	122.79	128.60
1	N	7	A	C5-C6-N1	-9.68	112.86	117.70
1	N	860	A	C6-N1-C2	9.68	124.41	118.60
1	N	1070	U	O4'-C1'-N1	9.68	115.94	108.20
1	N	1198	G	O4'-C1'-N9	9.68	115.94	108.20
1	N	816	A	N7-C8-N9	9.68	118.64	113.80
1	N	878	A	C5-C6-N6	-9.68	115.96	123.70
1	N	1532	U	O4'-C1'-N1	9.68	115.94	108.20
1	N	122	G	N7-C8-N9	9.67	117.94	113.10
1	N	320	A	O4'-C1'-N9	9.67	115.94	108.20
1	N	450	G	O4'-C1'-N9	9.67	115.94	108.20
1	N	1139	G	P-O3'-C3'	9.67	131.31	119.70
1	N	1367	C	C6-N1-C1'	-9.67	109.19	120.80
1	N	417	G	N1-C6-O6	9.67	125.70	119.90
1	N	811	C	N3-C4-C5	-9.67	118.03	121.90
1	N	1191	A	C4-C5-C6	9.67	121.83	117.00
1	N	29	U	N3-C4-C5	-9.66	108.80	114.60
1	N	318	G	C4-C5-C6	9.66	124.60	118.80
1	N	679	C	C2-N3-C4	9.66	124.73	119.90
1	N	752	G	N1-C6-O6	9.66	125.70	119.90
1	N	781	A	C5-C6-N6	-9.66	115.97	123.70
1	N	897	C	C5-C6-N1	9.66	125.83	121.00
1	N	372	C	C5-C4-N4	-9.66	113.44	120.20
1	N	1148	U	C5-C6-N1	9.66	127.53	122.70
1	N	637	C	N3-C4-C5	-9.66	118.04	121.90
1	N	645	G	N3-C2-N2	9.65	126.66	119.90
1	N	1355	G	C5-C6-O6	-9.65	122.81	128.60
1	N	657	U	C4-C5-C6	-9.65	113.91	119.70
1	N	1415	G	O4'-C1'-N9	9.65	115.92	108.20
1	N	527	G	C4-C5-C6	9.65	124.59	118.80
1	N	722	G	C8-N9-C4	9.65	110.26	106.40
1	N	241	G	N1-C6-O6	9.65	125.69	119.90
1	N	299	G	O4'-C1'-N9	9.65	115.92	108.20
1	N	765	G	C5-C6-O6	-9.65	122.81	128.60
1	N	1337	G	C6-C5-N7	-9.64	124.61	130.40
1	N	1261	A	C4-C5-C6	9.64	121.82	117.00
1	N	108	G	C8-N9-C4	-9.64	102.55	106.40
1	N	533	A	C8-N9-C4	-9.64	101.94	105.80
1	N	292	G	C6-C5-N7	-9.63	124.62	130.40
1	N	987	G	C6-C5-N7	-9.63	124.62	130.40
1	N	107	G	N1-C6-O6	9.63	125.68	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	648	A	C5-C6-N1	-9.63	112.88	117.70
1	N	694	A	N9-C4-C5	9.63	109.65	105.80
1	N	824	G	N7-C8-N9	9.63	117.91	113.10
1	N	395	C	O4'-C1'-N1	9.63	115.90	108.20
1	N	9	G	N3-C2-N2	9.62	126.64	119.90
1	N	1503	A	O4'-C1'-N9	9.62	115.90	108.20
1	N	1306	A	C5-C6-N6	-9.62	116.00	123.70
1	N	299	G	C5-C6-O6	-9.62	122.83	128.60
1	N	1244	G	N7-C8-N9	9.61	117.91	113.10
1	N	388	G	C1'-O4'-C4'	9.60	117.58	109.90
1	N	1315	U	N3-C4-O4	9.60	126.12	119.40
1	N	795	C	N3-C4-C5	-9.60	118.06	121.90
1	N	1172	C	N3-C4-N4	9.60	124.72	118.00
1	N	881	G	O4'-C1'-N9	9.60	115.88	108.20
1	N	822	U	C5-C4-O4	-9.59	120.15	125.90
1	N	950	U	O4'-C1'-N1	9.59	115.87	108.20
1	N	84	U	O4'-C1'-N1	9.58	115.87	108.20
1	N	66	A	N1-C6-N6	9.58	124.35	118.60
1	N	560	A	C6-N1-C2	-9.58	112.85	118.60
1	N	801	U	N3-C4-C5	-9.58	108.85	114.60
1	N	1400	C	N3-C4-C5	-9.58	118.07	121.90
1	N	873	A	C6-C5-N7	-9.58	125.60	132.30
1	N	336	A	C2-N3-C4	-9.57	105.81	110.60
1	N	893	C	N3-C4-N4	9.57	124.70	118.00
1	N	1481	U	N3-C4-O4	9.57	126.10	119.40
1	N	853	C	O4'-C1'-N1	9.57	115.86	108.20
1	N	1360	A	N9-C4-C5	9.57	109.63	105.80
1	N	448	A	C5-N7-C8	9.57	108.68	103.90
1	N	556	C	N3-C4-N4	9.57	124.70	118.00
1	N	673	A	N1-C6-N6	9.57	124.34	118.60
1	N	700	G	O4'-C1'-N9	9.57	115.85	108.20
1	N	872	A	P-O3'-C3'	9.57	131.18	119.70
1	N	692	U	P-O3'-C3'	9.56	131.18	119.70
1	N	10	A	O4'-C1'-N9	9.56	115.85	108.20
1	N	1469	C	N3-C4-C5	-9.56	118.08	121.90
1	N	124	C	N3-C4-C5	-9.56	118.08	121.90
1	N	770	C	C2-N3-C4	9.56	124.68	119.90
1	N	874	G	C2-N3-C4	9.56	116.68	111.90
1	N	428	G	C6-C5-N7	-9.56	124.66	130.40
1	N	1043	G	N3-C2-N2	9.56	126.59	119.90
1	N	99	C	C5-C6-N1	9.56	125.78	121.00
1	N	451	A	C5-C6-N6	-9.55	116.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	832	G	O4'-C1'-N9	9.55	115.84	108.20
1	N	1171	A	N7-C8-N9	-9.55	109.02	113.80
1	N	1241	G	C5'-C4'-C3'	-9.55	100.71	116.00
1	N	941	G	N3-C4-C5	-9.55	123.83	128.60
1	N	940	C	N3-C4-C5	-9.55	118.08	121.90
1	N	906	A	N7-C8-N9	9.55	118.57	113.80
1	N	1229	A	O4'-C1'-N9	9.55	115.84	108.20
1	N	1501	C	C6-N1-C2	-9.55	116.48	120.30
1	N	1437	A	C6-N1-C2	-9.54	112.87	118.60
1	N	241	G	C5-C6-O6	-9.54	122.87	128.60
1	N	278	G	N9-C4-C5	-9.54	101.58	105.40
1	N	1005	A	C2-N3-C4	-9.54	105.83	110.60
1	N	1308	U	O4'-C1'-N1	9.54	115.83	108.20
1	N	1338	G	N1-C6-O6	9.54	125.62	119.90
1	N	167	A	N1-C6-N6	9.54	124.32	118.60
1	N	185	U	C2-N3-C4	9.54	132.72	127.00
1	N	1080	A	C5-C6-N6	-9.54	116.07	123.70
1	N	977	A	C4-C5-N7	-9.53	105.93	110.70
1	N	1101	A	C8-N9-C4	-9.53	101.99	105.80
1	N	1409	C	N3-C4-C5	-9.53	118.09	121.90
1	N	460	A	N1-C6-N6	9.53	124.31	118.60
1	N	675	A	C8-N9-C4	-9.53	101.99	105.80
1	N	1323	G	C8-N9-C4	-9.52	102.59	106.40
1	N	1449	C	N3-C4-N4	9.52	124.67	118.00
1	N	1454	G	N1-C6-O6	9.52	125.61	119.90
1	N	689	C	N3-C4-C5	-9.51	118.09	121.90
1	N	986	U	N1-C2-O2	-9.51	116.14	122.80
1	N	492	C	N3-C4-N4	9.51	124.66	118.00
1	N	126	G	N1-C6-O6	9.51	125.61	119.90
1	N	578	C	O4'-C1'-N1	9.51	115.81	108.20
1	N	750	C	O4'-C1'-N1	9.51	115.81	108.20
1	N	203	G	C4-C5-N7	-9.51	107.00	110.80
1	N	86	G	N1-C6-O6	9.51	125.60	119.90
1	N	1310	G	N1-C6-O6	9.50	125.60	119.90
1	N	40	C	N3-C4-N4	9.50	124.65	118.00
1	N	1475	G	N1-C6-O6	9.50	125.60	119.90
1	N	1290	G	C4-N9-C1'	9.50	138.84	126.50
1	N	461	A	N1-C6-N6	9.49	124.30	118.60
1	N	128	G	P-O5'-C5'	9.49	136.09	120.90
1	N	646	G	N1-C2-N3	-9.49	118.20	123.90
1	N	860	A	C4-C5-C6	9.49	121.75	117.00
1	N	372	C	P-O3'-C3'	9.49	131.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	443	C	C6-N1-C2	-9.49	116.51	120.30
1	N	907	A	C4-C5-C6	9.49	121.74	117.00
1	N	803	G	N3-C4-C5	9.48	133.34	128.60
1	N	58	C	C6-N1-C2	-9.48	116.51	120.30
1	N	721	G	N1-C2-N2	-9.48	107.67	116.20
1	N	169	C	N3-C4-C5	-9.48	118.11	121.90
1	N	1523	G	C6-C5-N7	-9.48	124.71	130.40
1	N	469	C	C5-C6-N1	9.48	125.74	121.00
1	N	966	G	N1-C6-O6	9.48	125.59	119.90
1	N	1412	C	C6-N1-C2	-9.48	116.51	120.30
1	N	36	C	P-O3'-C3'	-9.47	108.33	119.70
1	N	1304	G	N1-C6-O6	9.47	125.58	119.90
1	N	1460	C	O4'-C1'-N1	9.47	115.78	108.20
1	N	1160	G	O4'-C1'-N9	9.47	115.78	108.20
1	N	1404	C	P-O3'-C3'	9.47	131.07	119.70
1	N	1079	G	C6-N1-C2	9.47	130.78	125.10
1	N	767	A	O4'-C1'-N9	9.47	115.78	108.20
1	N	1209	C	C2-N3-C4	9.47	124.63	119.90
1	N	1403	C	N3-C4-N4	9.47	124.63	118.00
1	N	69	G	C6-N1-C2	9.47	130.78	125.10
1	N	1239	A	N1-C6-N6	9.47	124.28	118.60
1	N	54	C	N3-C4-N4	9.46	124.62	118.00
1	N	203	G	O4'-C1'-N9	9.46	115.77	108.20
1	N	544	G	C6-C5-N7	-9.46	124.72	130.40
1	N	1228	C	O4'-C1'-N1	9.46	115.77	108.20
1	N	538	G	N1-C6-O6	9.46	125.57	119.90
1	N	635	A	C6-C5-N7	-9.46	125.68	132.30
1	N	1042	A	P-O5'-C5'	9.46	136.03	120.90
1	N	687	A	C5-C6-N6	-9.44	116.14	123.70
1	N	1323	G	O4'-C1'-N9	9.44	115.75	108.20
1	N	722	G	N1-C6-O6	9.44	125.56	119.90
1	N	282	A	C5-C6-N1	-9.44	112.98	117.70
1	N	93	U	O4'-C1'-N1	9.44	115.75	108.20
1	N	255	G	N1-C6-O6	9.43	125.56	119.90
1	N	142	G	C5-C6-O6	-9.43	122.94	128.60
1	N	557	G	N3-C4-N9	9.43	131.66	126.00
1	N	1307	U	C4-C5-C6	-9.43	114.04	119.70
1	N	203	G	C5-N7-C8	9.42	109.01	104.30
1	N	319	G	C5-C6-N1	-9.42	106.79	111.50
1	N	1266	G	N1-C6-O6	9.42	125.55	119.90
1	N	1317	C	C6-N1-C2	9.42	124.07	120.30
1	N	1388	C	O4'-C1'-N1	9.42	115.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1511	G	C5-C6-N1	-9.42	106.79	111.50
1	N	277	C	O4'-C4'-C3'	-9.41	94.58	104.00
1	N	293	G	C4-C5-N7	9.41	114.56	110.80
1	N	970	C	C6-N1-C2	-9.41	116.53	120.30
1	N	670	G	N1-C6-O6	9.41	125.55	119.90
1	N	1274	A	O4'-C1'-N9	9.41	115.73	108.20
1	N	1222	G	N1-C6-O6	9.41	125.55	119.90
1	N	1469	C	P-O3'-C3'	9.41	130.99	119.70
1	N	237	G	O4'-C1'-N9	9.40	115.72	108.20
1	N	415	A	C4-C5-C6	9.40	121.70	117.00
1	N	748	G	N1-C6-O6	9.40	125.54	119.90
1	N	313	A	N1-C2-N3	9.40	134.00	129.30
1	N	805	C	O4'-C1'-N1	9.39	115.72	108.20
1	N	1206	G	N3-C2-N2	9.39	126.47	119.90
1	N	422	C	P-O3'-C3'	9.39	130.97	119.70
1	N	487	A	N1-C6-N6	9.39	124.23	118.60
1	N	1186	G	C2-N3-C4	9.38	116.59	111.90
1	N	1366	C	O4'-C1'-N1	9.39	115.71	108.20
1	N	1041	G	N1-C6-O6	9.38	125.53	119.90
1	N	233	C	O4'-C1'-N1	9.37	115.70	108.20
1	N	695	A	N1-C2-N3	9.38	133.99	129.30
1	N	177	G	O4'-C1'-N9	9.37	115.70	108.20
1	N	650	G	N7-C8-N9	9.37	117.79	113.10
1	N	858	G	N9-C4-C5	9.37	109.15	105.40
1	N	514	C	C6-N1-C2	9.37	124.05	120.30
1	N	257	G	C6-C5-N7	-9.36	124.78	130.40
1	N	790	A	C5-C6-N6	-9.36	116.21	123.70
1	N	1509	C	N3-C4-N4	9.36	124.55	118.00
1	N	1515	G	N1-C6-O6	9.36	125.52	119.90
1	N	455	G	C5-C6-O6	-9.36	122.98	128.60
1	N	379	C	N3-C4-C5	-9.36	118.16	121.90
1	N	592	G	N1-C2-N3	-9.36	118.29	123.90
1	N	621	A	C5-C6-N6	-9.35	116.22	123.70
1	N	308	C	C4-C5-C6	9.35	122.08	117.40
1	N	1298	U	N3-C4-C5	-9.35	108.99	114.60
1	N	1500	A	O4'-C1'-N9	9.35	115.68	108.20
1	N	167	A	C5-C6-N6	-9.35	116.22	123.70
1	N	334	C	N3-C4-C5	-9.34	118.16	121.90
1	N	1203	C	O4'-C1'-N1	9.34	115.67	108.20
1	N	760	G	N3-C4-N9	-9.34	120.40	126.00
1	N	810	C	P-O3'-C3'	-9.34	108.50	119.70
1	N	1412	C	C5-C4-N4	-9.34	113.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1119	C	O4'-C1'-N1	9.34	115.67	108.20
1	N	1337	G	C4-C5-N7	9.34	114.53	110.80
1	N	522	C	C6-N1-C2	-9.33	116.57	120.30
1	N	1166	G	P-O3'-C3'	9.33	130.90	119.70
1	N	1287	A	N9-C4-C5	9.33	109.53	105.80
1	N	956	U	O4'-C1'-N1	9.33	115.67	108.20
1	N	1442	G	N1-C6-O6	9.33	125.50	119.90
1	N	184	G	C5-C6-O6	-9.33	123.00	128.60
1	N	138	G	C5-C6-O6	-9.33	123.00	128.60
1	N	1367	C	N3-C4-C5	-9.33	118.17	121.90
1	N	1209	C	N3-C4-C5	-9.32	118.17	121.90
1	N	1436	U	P-O3'-C3'	9.32	130.89	119.70
1	N	499	A	P-O3'-C3'	9.32	130.88	119.70
1	N	937	A	C5-C6-N6	-9.32	116.24	123.70
1	N	1277	C	C4'-C3'-C2'	-9.32	93.28	102.60
1	N	378	G	N3-C2-N2	9.31	126.42	119.90
1	N	663	A	C4-C5-N7	-9.31	106.04	110.70
1	N	1522	U	N1-C2-O2	-9.31	116.28	122.80
1	N	385	C	O4'-C1'-N1	9.31	115.65	108.20
1	N	1154	G	C4-C5-N7	9.31	114.52	110.80
1	N	669	G	C5-C6-O6	-9.30	123.02	128.60
1	N	149	A	N1-C6-N6	9.30	124.18	118.60
1	N	498	A	P-O5'-C5'	9.30	135.78	120.90
1	N	1021	A	C5-C6-N1	-9.30	113.05	117.70
1	N	1125	U	P-O3'-C3'	9.30	130.86	119.70
1	N	511	C	O4'-C1'-N1	9.30	115.64	108.20
1	N	946	A	O4'-C1'-N9	9.30	115.64	108.20
1	N	52	C	N3-C4-N4	9.30	124.51	118.00
1	N	1137	C	O4'-C1'-N1	9.30	115.64	108.20
1	N	1351	U	C5-C4-O4	9.29	131.48	125.90
1	N	4	U	C5'-C4'-C3'	-9.29	101.13	116.00
1	N	729	A	P-O5'-C5'	9.29	135.76	120.90
1	N	775	G	N1-C2-N3	-9.29	118.33	123.90
1	N	298	A	O4'-C1'-N9	9.28	115.63	108.20
1	N	988	G	N1-C2-N3	-9.28	118.33	123.90
1	N	1034	G	C4-C5-N7	-9.28	107.09	110.80
1	N	269	C	C6-N1-C2	-9.28	116.59	120.30
1	N	198	G	C5-C6-O6	-9.27	123.04	128.60
1	N	1283	U	O4'-C1'-N1	9.27	115.61	108.20
1	N	1197	A	C5-C6-N6	-9.27	116.29	123.70
1	N	1209	C	N3-C4-N4	9.27	124.49	118.00
1	N	572	A	C8-N9-C4	-9.26	102.09	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	495	A	C5-N7-C8	9.26	108.53	103.90
1	N	890	G	C5-C6-N1	-9.26	106.87	111.50
1	N	812	G	C6-N1-C2	9.26	130.66	125.10
1	N	1427	C	N3-C4-N4	9.26	124.48	118.00
1	N	913	A	C5-C6-N1	-9.26	113.07	117.70
1	N	1023	U	O4'-C1'-N1	9.26	115.61	108.20
1	N	1213	A	C4-C5-C6	9.25	121.63	117.00
1	N	546	A	N1-C6-N6	9.25	124.15	118.60
1	N	1060	U	O4'-C1'-N1	9.25	115.60	108.20
1	N	1143	G	C6-C5-N7	-9.25	124.85	130.40
1	N	1429	A	C4-C5-C6	9.25	121.62	117.00
1	N	298	A	P-O3'-C3'	9.25	130.79	119.70
1	N	1005	A	O4'-C1'-N9	9.25	115.60	108.20
1	N	1327	C	O4'-C1'-N1	9.24	115.59	108.20
1	N	636	U	C2-N3-C4	-9.24	121.46	127.00
1	N	1034	G	C5-C6-O6	-9.24	123.06	128.60
1	N	1181	G	C5-C6-O6	-9.24	123.06	128.60
1	N	1315	U	N1-C2-O2	-9.24	116.33	122.80
1	N	1336	C	N1-C2-O2	9.24	124.44	118.90
1	N	317	U	C6-N1-C2	-9.23	115.46	121.00
1	N	1011	C	N3-C4-C5	-9.23	118.21	121.90
1	N	385	C	N3-C4-N4	9.23	124.46	118.00
1	N	1087	G	O4'-C1'-N9	9.23	115.59	108.20
1	N	176	C	N3-C4-N4	9.23	124.46	118.00
1	N	552	U	N3-C4-O4	9.23	125.86	119.40
1	N	1534	A	C5-C6-N6	-9.23	116.32	123.70
1	N	1477	U	C5-C4-O4	-9.23	120.36	125.90
1	N	8	A	C4-C5-C6	9.22	121.61	117.00
1	N	830	G	C6-N1-C2	9.22	130.63	125.10
1	N	970	C	C2-N1-C1'	9.22	128.95	118.80
1	N	1102	A	N9-C4-C5	9.22	109.49	105.80
1	N	1444	U	N3-C4-O4	9.22	125.86	119.40
1	N	663	A	N1-C2-N3	9.22	133.91	129.30
1	N	212	G	N9-C4-C5	9.22	109.09	105.40
1	N	509	A	C8-N9-C4	-9.22	102.11	105.80
1	N	535	A	C6-N1-C2	-9.22	113.07	118.60
1	N	257	G	C2-N3-C4	9.21	116.51	111.90
1	N	315	A	C4-C5-C6	9.21	121.61	117.00
1	N	600	A	O4'-C1'-N9	9.21	115.57	108.20
1	N	810	C	C6-N1-C2	-9.21	116.61	120.30
1	N	425	G	P-O3'-C3'	-9.21	108.65	119.70
1	N	1333	A	C6-N1-C2	-9.21	113.08	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1086	U	O4'-C1'-N1	9.21	115.56	108.20
1	N	1396	A	O4'-C1'-N9	9.20	115.56	108.20
1	N	324	G	C5-C6-N1	-9.20	106.90	111.50
1	N	1233	G	O4'-C1'-N9	9.20	115.56	108.20
1	N	649	A	C2-N3-C4	-9.20	106.00	110.60
1	N	381	C	C4-C5-C6	9.19	122.00	117.40
1	N	1114	C	N3-C4-N4	9.19	124.44	118.00
1	N	151	A	N7-C8-N9	9.19	118.40	113.80
1	N	203	G	C5-C6-N1	-9.19	106.91	111.50
1	N	493	A	C5-C6-N6	-9.19	116.35	123.70
1	N	1066	C	O4'-C1'-N1	9.18	115.55	108.20
1	N	1124	G	C5-C6-N1	-9.18	106.91	111.50
1	N	109	A	O4'-C1'-N9	9.18	115.55	108.20
1	N	110	C	N3-C4-C5	-9.18	118.23	121.90
1	N	712	A	O4'-C1'-N9	9.18	115.54	108.20
1	N	843	U	C6-N1-C1'	-9.18	108.35	121.20
1	N	691	G	C5-C6-O6	-9.18	123.09	128.60
1	N	811	C	O4'-C1'-N1	9.18	115.54	108.20
1	N	693	G	C4-C5-N7	-9.17	107.13	110.80
1	N	871	U	O4'-C1'-N1	9.17	115.54	108.20
1	N	313	A	C4-C5-C6	9.17	121.58	117.00
1	N	1167	A	O4'-C1'-N9	9.17	115.53	108.20
1	N	1218	C	O4'-C1'-N1	9.16	115.53	108.20
1	N	362	G	C8-N9-C4	-9.16	102.74	106.40
1	N	1195	C	N3-C4-C5	-9.16	118.24	121.90
1	N	856	C	C6-N1-C2	-9.16	116.64	120.30
1	N	499	A	N9-C4-C5	-9.16	102.14	105.80
1	N	104	G	C6-C5-N7	-9.15	124.91	130.40
1	N	171	A	C6-C5-N7	-9.15	125.89	132.30
1	N	243	A	C4-C5-C6	9.15	121.58	117.00
1	N	853	C	N3-C4-N4	9.15	124.41	118.00
1	N	885	G	C5-C6-N1	-9.15	106.92	111.50
1	N	465	A	N1-C6-N6	9.15	124.09	118.60
1	N	568	G	C8-N9-C4	-9.15	102.74	106.40
1	N	1177	G	N9-C4-C5	-9.15	101.74	105.40
1	N	1509	C	O4'-C1'-N1	9.15	115.52	108.20
1	N	28	A	C2-N3-C4	-9.14	106.03	110.60
1	N	1439	G	C2-N3-C4	9.14	116.47	111.90
1	N	1306	A	C5-C6-N1	-9.14	113.13	117.70
1	N	212	G	C5-N7-C8	9.13	108.87	104.30
1	N	44	A	N1-C2-N3	9.13	133.87	129.30
1	N	394	G	N1-C6-O6	9.13	125.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	593	U	N1-C2-N3	9.13	120.38	114.90
1	N	817	C	O4'-C1'-N1	9.13	115.50	108.20
1	N	1059	C	C4-C5-C6	-9.13	112.83	117.40
1	N	1082	A	C4-C5-C6	9.13	121.56	117.00
1	N	53	A	C5-C6-N1	-9.13	113.14	117.70
1	N	1259	C	C5-C6-N1	9.13	125.56	121.00
1	N	29	U	O4'-C1'-N1	9.12	115.50	108.20
1	N	731	G	N1-C6-O6	9.12	125.38	119.90
1	N	213	G	C6-C5-N7	-9.12	124.93	130.40
1	N	429	U	O4'-C1'-N1	9.12	115.50	108.20
1	N	227	G	P-O3'-C3'	-9.12	108.76	119.70
1	N	415	A	C5-C6-N1	-9.12	113.14	117.70
1	N	459	A	C5-C6-N6	-9.12	116.41	123.70
1	N	667	G	N1-C6-O6	9.12	125.37	119.90
1	N	1032	G	C4-C5-N7	9.12	114.45	110.80
1	N	1461	G	C5-C6-O6	-9.12	123.13	128.60
1	N	1093	A	N3-C4-C5	-9.12	120.42	126.80
1	N	985	C	C5-C4-N4	-9.11	113.82	120.20
1	N	1093	A	C8-N9-C4	-9.11	102.16	105.80
1	N	1493	A	C4-C5-C6	9.11	121.56	117.00
1	N	777	A	C5'-C4'-O4'	9.11	120.03	109.10
1	N	1300	G	P-O3'-C3'	9.11	130.63	119.70
1	N	1456	A	C8-N9-C4	-9.11	102.16	105.80
1	N	361	G	C4-C5-C6	9.11	124.26	118.80
1	N	1285	A	C6-C5-N7	-9.11	125.93	132.30
1	N	1533	C	C5-C4-N4	-9.10	113.83	120.20
1	N	198	G	C5'-C4'-C3'	-9.10	101.44	116.00
1	N	618	C	N3-C4-N4	9.10	124.37	118.00
1	N	1156	G	C8-N9-C4	9.10	110.04	106.40
1	N	901	A	C5-N7-C8	9.10	108.45	103.90
1	N	1224	U	O4'-C1'-N1	9.10	115.48	108.20
1	N	406	G	N9-C4-C5	-9.10	101.76	105.40
1	N	733	G	O4'-C1'-N9	9.10	115.48	108.20
1	N	868	C	O4'-C1'-N1	9.09	115.47	108.20
1	N	203	G	N3-C4-C5	-9.09	124.05	128.60
1	N	749	A	C2-N3-C4	-9.09	106.05	110.60
1	N	1082	A	C5-N7-C8	9.09	108.45	103.90
1	N	1254	A	C5-C6-N6	-9.09	116.43	123.70
1	N	1323	G	N7-C8-N9	9.09	117.65	113.10
1	N	296	U	P-O3'-C3'	-9.09	108.80	119.70
1	N	695	A	C4-C5-N7	-9.08	106.16	110.70
1	N	1142	G	N7-C8-N9	9.08	117.64	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1505	G	N9-C4-C5	-9.08	101.77	105.40
1	N	1000	A	N9-C4-C5	9.08	109.43	105.80
1	N	83	C	N3-C4-C5	-9.08	118.27	121.90
1	N	264	C	P-O5'-C5'	9.08	135.42	120.90
1	N	521	G	C5-C6-N1	-9.08	106.96	111.50
1	N	132	C	N3-C4-C5	-9.07	118.27	121.90
1	N	1018	G	C6-C5-N7	-9.07	124.95	130.40
1	N	1108	G	C4-C5-C6	9.07	124.25	118.80
1	N	1483	A	N7-C8-N9	-9.07	109.26	113.80
1	N	741	G	N1-C2-N3	-9.07	118.46	123.90
1	N	545	C	N3-C4-N4	9.07	124.35	118.00
1	N	191	G	C5-C6-O6	-9.07	123.16	128.60
1	N	203	G	N9-C4-C5	9.07	109.03	105.40
1	N	315	A	C5-C6-N1	-9.06	113.17	117.70
1	N	324	G	O4'-C1'-N9	9.06	115.45	108.20
1	N	227	G	C8-N9-C4	-9.06	102.78	106.40
1	N	616	G	C4-C5-N7	9.06	114.42	110.80
1	N	81	A	C5-C6-N6	-9.06	116.45	123.70
1	N	901	A	C5-C6-N6	-9.06	116.45	123.70
1	N	1059	C	O4'-C1'-N1	9.06	115.45	108.20
1	N	1334	G	N1-C2-N2	-9.06	108.05	116.20
1	N	470	C	C5-C6-N1	9.06	125.53	121.00
1	N	1495	U	N3-C4-C5	-9.06	109.17	114.60
1	N	174	A	C5-N7-C8	9.06	108.43	103.90
1	N	352	C	N3-C4-C5	-9.05	118.28	121.90
1	N	1498	U	P-O3'-C3'	9.05	130.56	119.70
1	N	30	U	N3-C4-C5	-9.05	109.17	114.60
1	N	759	A	N1-C6-N6	9.05	124.03	118.60
1	N	774	G	C4-C5-C6	9.05	124.23	118.80
1	N	228	A	C5-C6-N1	-9.05	113.17	117.70
1	N	1177	G	N1-C2-N3	-9.05	118.47	123.90
1	N	1138	G	N1-C6-O6	9.05	125.33	119.90
1	N	1143	G	C5-C6-O6	-9.05	123.17	128.60
1	N	710	G	N1-C6-O6	9.05	125.33	119.90
1	N	1513	A	N1-C6-N6	9.05	124.03	118.60
1	N	654	G	C5-C6-O6	-9.05	123.17	128.60
1	N	321	A	C6-C5-N7	-9.04	125.97	132.30
1	N	829	G	C5-C6-N1	-9.04	106.98	111.50
1	N	831	A	N7-C8-N9	-9.04	109.28	113.80
1	N	170	U	C2-N3-C4	-9.04	121.57	127.00
1	N	537	G	O4'-C1'-N9	9.04	115.43	108.20
1	N	812	G	C6-C5-N7	-9.04	124.98	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1440	U	O4'-C1'-N1	9.04	115.43	108.20
1	N	426	U	N3-C4-C5	-9.03	109.18	114.60
1	N	484	G	C5-C6-O6	-9.03	123.18	128.60
1	N	1145	A	C5-C6-N6	-9.03	116.47	123.70
1	N	1042	A	C5-C6-N1	-9.03	113.19	117.70
1	N	937	A	N7-C8-N9	9.03	118.31	113.80
1	N	1375	A	C5-C6-N6	-9.03	116.48	123.70
1	N	1064	G	C5-C6-O6	-9.03	123.19	128.60
1	N	146	G	C5-C6-N1	9.02	116.01	111.50
1	N	1516	G	C5-C6-O6	-9.02	123.19	128.60
1	N	266	G	C2-N3-C4	9.02	116.41	111.90
1	N	359	G	O4'-C1'-N9	9.02	115.42	108.20
1	N	158	G	C8-N9-C4	-9.01	102.80	106.40
1	N	374	A	C4-C5-N7	-9.01	106.19	110.70
1	N	710	G	C6-C5-N7	-9.01	124.99	130.40
1	N	1156	G	N7-C8-N9	-9.01	108.59	113.10
1	N	131	A	C5-N7-C8	9.01	108.41	103.90
1	N	800	G	P-O5'-C5'	9.01	135.31	120.90
1	N	875	U	N3-C2-O2	9.01	128.51	122.20
1	N	678	U	C2-N3-C4	-9.01	121.60	127.00
1	N	888	G	N3-C2-N2	9.01	126.20	119.90
1	N	1487	G	N7-C8-N9	-9.01	108.60	113.10
1	N	814	A	N3-C4-C5	-9.00	120.50	126.80
1	N	983	A	C6-C5-N7	-9.00	126.00	132.30
1	N	9	G	O4'-C1'-N9	9.00	115.40	108.20
1	N	63	C	P-O3'-C3'	9.00	130.50	119.70
1	N	321	A	C2-N3-C4	-9.00	106.10	110.60
1	N	595	A	C5-C6-N1	-9.00	113.20	117.70
1	N	1305	G	N1-C6-O6	-9.00	114.50	119.90
1	N	557	G	C8-N9-C4	9.00	110.00	106.40
1	N	1445	U	P-O5'-C5'	9.00	135.29	120.90
1	N	155	A	C5-C6-N6	-8.99	116.50	123.70
1	N	50	A	C3'-C2'-C1'	-8.99	94.31	101.50
1	N	448	A	C6-N1-C2	8.99	123.99	118.60
1	N	1271	A	C5-N7-C8	8.99	108.40	103.90
1	N	798	U	N3-C4-C5	-8.99	109.21	114.60
1	N	81	A	C2-N3-C4	8.99	115.09	110.60
1	N	723	U	C2-N1-C1'	8.99	128.49	117.70
1	N	403	C	N3-C4-C5	-8.98	118.31	121.90
1	N	163	C	N3-C4-C5	-8.98	118.31	121.90
1	N	1200	C	O4'-C1'-N1	8.98	115.39	108.20
1	N	1512	U	C5-C6-N1	-8.98	118.21	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1029	U	C5-C4-O4	-8.98	120.51	125.90
1	N	1167	A	N7-C8-N9	-8.98	109.31	113.80
1	N	1339	A	N1-C6-N6	8.97	123.98	118.60
1	N	254	G	N1-C6-O6	8.97	125.28	119.90
1	N	382	A	N7-C8-N9	-8.97	109.31	113.80
1	N	933	G	O4'-C1'-N9	8.97	115.38	108.20
1	N	126	G	C5-C6-O6	-8.97	123.22	128.60
1	N	269	C	P-O5'-C5'	8.97	135.25	120.90
1	N	1456	A	C5-C6-N6	-8.97	116.53	123.70
1	N	103	U	C2-N3-C4	8.96	132.38	127.00
1	N	232	G	O4'-C1'-N9	8.96	115.37	108.20
1	N	483	C	C2-N3-C4	8.96	124.38	119.90
1	N	79	G	C5-C6-O6	-8.96	123.22	128.60
1	N	108	G	N9-C4-C5	8.96	108.98	105.40
1	N	1277	C	C4-C5-C6	-8.96	112.92	117.40
1	N	616	G	O4'-C1'-N9	8.96	115.37	108.20
1	N	903	G	O4'-C1'-N9	8.96	115.37	108.20
1	N	1046	A	C5-C6-N6	-8.96	116.53	123.70
1	N	1185	G	C5-C6-O6	-8.96	123.23	128.60
1	N	539	A	O4'-C1'-N9	8.96	115.36	108.20
1	N	98	A	O4'-C1'-N9	8.95	115.36	108.20
1	N	122	G	N3-C4-C5	8.95	133.08	128.60
1	N	453	G	C6-C5-N7	-8.95	125.03	130.40
1	N	182	A	C5-C6-N6	-8.95	116.54	123.70
1	N	274	A	P-O5'-C5'	8.95	135.22	120.90
1	N	1324	A	O4'-C1'-N9	8.95	115.36	108.20
1	N	1497	G	O4'-C1'-N9	8.95	115.36	108.20
1	N	177	G	N1-C2-N2	8.95	124.25	116.20
1	N	315	A	N1-C6-N6	8.95	123.97	118.60
1	N	394	G	N3-C2-N2	8.95	126.16	119.90
1	N	460	A	P-O5'-C5'	8.95	135.21	120.90
1	N	788	U	P-O5'-C5'	8.94	135.21	120.90
1	N	1368	A	N1-C2-N3	8.95	133.77	129.30
1	N	1396	A	N1-C6-N6	8.95	123.97	118.60
1	N	73	C	O4'-C1'-N1	8.94	115.35	108.20
1	N	156	C	N3-C4-C5	-8.94	118.32	121.90
1	N	484	G	N3-C4-C5	8.94	133.07	128.60
1	N	33	A	C6-N1-C2	8.94	123.96	118.60
1	N	545	C	C5-C4-N4	-8.94	113.94	120.20
1	N	1437	A	O4'-C1'-N9	8.94	115.35	108.20
1	N	533	A	C4-C5-N7	-8.94	106.23	110.70
1	N	722	G	N9-C4-C5	-8.94	101.83	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	731	G	N1-C2-N3	-8.94	118.54	123.90
1	N	621	A	C5-C6-N1	-8.94	113.23	117.70
1	N	962	C	N3-C4-N4	8.94	124.25	118.00
1	N	1340	A	N1-C6-N6	8.94	123.96	118.60
1	N	23	C	N3-C4-N4	8.93	124.25	118.00
1	N	400	C	N3-C4-N4	8.93	124.25	118.00
1	N	546	A	C5-C6-N1	-8.93	113.23	117.70
1	N	1159	U	O5'-P-OP2	8.93	121.42	110.70
1	N	1326	U	C5-C6-N1	-8.93	118.23	122.70
1	N	578	C	C5-C6-N1	8.93	125.47	121.00
1	N	723	U	C5-C6-N1	8.93	127.17	122.70
1	N	1180	A	N9-C4-C5	8.93	109.37	105.80
1	N	866	C	N3-C4-N4	8.93	124.25	118.00
1	N	1000	A	O4'-C1'-N9	8.93	115.34	108.20
1	N	201	G	O4'-C1'-N9	8.93	115.34	108.20
1	N	306	A	C5-C6-N6	-8.93	116.56	123.70
1	N	253	A	C5-C6-N6	-8.92	116.56	123.70
1	N	1018	G	C4-C5-C6	8.92	124.16	118.80
1	N	1210	C	C5-C4-N4	-8.92	113.95	120.20
1	N	542	G	N7-C8-N9	8.92	117.56	113.10
1	N	744	C	N3-C4-N4	8.92	124.24	118.00
1	N	922	G	N1-C6-O6	8.92	125.25	119.90
1	N	1216	A	C4-C5-C6	8.92	121.46	117.00
1	N	1302	C	C6-N1-C2	-8.92	116.73	120.30
1	N	481	G	O4'-C4'-C3'	-8.92	95.08	104.00
1	N	1473	G	N1-C6-O6	8.92	125.25	119.90
1	N	808	C	O4'-C1'-N1	8.91	115.33	108.20
1	N	1092	A	N1-C6-N6	8.91	123.95	118.60
1	N	1283	U	C6-N1-C2	-8.91	115.65	121.00
1	N	1356	G	O4'-C1'-N9	8.91	115.33	108.20
1	N	354	G	C6-C5-N7	-8.91	125.05	130.40
1	N	1223	C	N3-C4-N4	8.91	124.24	118.00
1	N	177	G	N1-C2-N3	-8.91	118.55	123.90
1	N	524	G	C2-N3-C4	8.91	116.35	111.90
1	N	533	A	C5'-C4'-C3'	-8.91	101.74	116.00
1	N	1427	C	C6-N1-C2	-8.91	116.74	120.30
1	N	1518	A	O4'-C1'-N9	8.91	115.33	108.20
1	N	647	C	C2-N3-C4	8.91	124.35	119.90
1	N	652	U	P-O3'-C3'	8.91	130.39	119.70
1	N	1377	A	C5-C6-N1	-8.91	113.25	117.70
1	N	413	G	C4-C5-N7	-8.90	107.24	110.80
1	N	325	A	C4-C5-N7	-8.90	106.25	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1504	G	C4-C5-N7	-8.90	107.24	110.80
1	N	1419	G	N3-C4-C5	8.90	133.05	128.60
1	N	926	G	P-O3'-C3'	8.90	130.38	119.70
1	N	292	G	C5-C6-O6	-8.89	123.26	128.60
1	N	327	A	P-O3'-C3'	8.89	130.37	119.70
1	N	39	G	C5-C6-O6	-8.89	123.27	128.60
1	N	275	G	N1-C6-O6	8.88	125.23	119.90
1	N	982	U	P-O5'-C5'	8.88	135.12	120.90
1	N	447	G	C8-N9-C4	8.88	109.95	106.40
1	N	1366	C	N3-C4-C5	-8.88	118.35	121.90
1	N	687	A	N1-C2-N3	8.88	133.74	129.30
1	N	831	A	O4'-C1'-N9	8.88	115.30	108.20
1	N	915	A	C5-N7-C8	8.88	108.34	103.90
1	N	1465	A	C6-C5-N7	-8.87	126.09	132.30
1	N	1390	U	P-O3'-C3'	8.87	130.35	119.70
1	N	79	G	N3-C2-N2	8.87	126.11	119.90
1	N	494	G	N1-C6-O6	8.87	125.22	119.90
1	N	890	G	O4'-C1'-N9	8.87	115.30	108.20
1	N	578	C	N3-C4-N4	8.87	124.21	118.00
1	N	50	A	C5-C6-N6	-8.87	116.61	123.70
1	N	914	A	C5'-C4'-C3'	-8.87	101.81	116.00
1	N	300	A	C4-C5-C6	8.87	121.43	117.00
1	N	1205	U	O4'-C1'-N1	8.87	115.29	108.20
1	N	341	C	C5-C6-N1	8.86	125.43	121.00
1	N	1427	C	C4-C5-C6	8.86	121.83	117.40
1	N	278	G	C4-C5-N7	8.86	114.34	110.80
1	N	488	C	C6-N1-C2	-8.86	116.75	120.30
1	N	1035	A	N1-C2-N3	-8.86	124.87	129.30
1	N	672	U	O4'-C1'-N1	8.86	115.29	108.20
1	N	821	G	N1-C6-O6	8.86	125.21	119.90
1	N	155	A	C5-C6-N1	-8.85	113.27	117.70
1	N	197	A	P-O5'-C5'	8.85	135.06	120.90
1	N	945	G	C5-C6-O6	-8.85	123.29	128.60
1	N	1433	A	C6-C5-N7	-8.85	126.10	132.30
1	N	1399	C	C1'-O4'-C4'	-8.85	102.82	109.90
1	N	409	U	C5-C6-N1	8.85	127.12	122.70
1	N	1318	A	C4-C5-C6	8.85	121.42	117.00
1	N	1128	C	N3-C4-N4	8.85	124.19	118.00
1	N	394	G	N1-C2-N3	-8.85	118.59	123.90
1	N	152	A	O4'-C1'-N9	8.85	115.28	108.20
1	N	1182	G	N3-C4-N9	-8.85	120.69	126.00
1	N	1389	C	C4-C5-C6	-8.85	112.98	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	377	G	P-O5'-C5'	8.84	135.05	120.90
1	N	868	C	C5-C4-N4	-8.84	114.01	120.20
1	N	1107	C	P-O3'-C3'	-8.84	109.09	119.70
1	N	1151	A	O4'-C1'-N9	8.84	115.27	108.20
1	N	1209	C	O4'-C1'-N1	8.84	115.27	108.20
1	N	212	G	C4-C5-N7	-8.84	107.27	110.80
1	N	889	A	C6-N1-C2	-8.84	113.30	118.60
1	N	1333	A	C1'-O4'-C4'	8.84	116.97	109.90
1	N	852	G	C5-N7-C8	-8.83	99.88	104.30
1	N	1114	C	C5-C6-N1	8.83	125.42	121.00
1	N	3	A	C5-C6-N1	-8.83	113.29	117.70
1	N	90	C	C5'-C4'-C3'	8.83	130.13	116.00
1	N	208	U	C5-C4-O4	-8.83	120.60	125.90
1	N	980	C	P-O3'-C3'	8.83	130.29	119.70
1	N	1185	G	N1-C6-O6	8.83	125.20	119.90
1	N	509	A	C2-N3-C4	8.82	115.01	110.60
1	N	1137	C	N3-C4-N4	8.82	124.18	118.00
1	N	10	A	C5-C6-N6	-8.82	116.64	123.70
1	N	187	G	O4'-C1'-N9	8.82	115.26	108.20
1	N	670	G	N7-C8-N9	8.82	117.51	113.10
1	N	1143	G	C4-C5-N7	8.82	114.33	110.80
1	N	107	G	C5-C6-O6	-8.82	123.31	128.60
1	N	189	A	C5-C6-N1	-8.82	113.29	117.70
1	N	205	A	C4-C5-C6	8.82	121.41	117.00
1	N	425	G	C5-C6-O6	-8.82	123.31	128.60
1	N	694	A	C5-C6-N6	-8.82	116.64	123.70
1	N	1476	A	N7-C8-N9	-8.82	109.39	113.80
1	N	1347	G	N1-C6-O6	8.82	125.19	119.90
1	N	1518	A	C4-C5-N7	-8.82	106.29	110.70
1	N	973	G	N1-C6-O6	8.82	125.19	119.90
1	N	53	A	C4-C5-C6	8.81	121.41	117.00
1	N	964	A	N9-C4-C5	8.81	109.33	105.80
1	N	314	C	C4-C5-C6	-8.81	113.00	117.40
1	N	1463	U	N3-C2-O2	8.81	128.37	122.20
1	N	485	U	C5-C6-N1	-8.81	118.30	122.70
1	N	1201	A	C6-C5-N7	-8.81	126.13	132.30
1	N	1487	G	C6-C5-N7	-8.81	125.11	130.40
1	N	771	G	N1-C6-O6	8.81	125.18	119.90
1	N	1156	G	C5-C6-N1	-8.81	107.10	111.50
1	N	50	A	P-O5'-C5'	8.80	134.99	120.90
1	N	560	A	N1-C6-N6	8.80	123.88	118.60
1	N	233	C	C2-N1-C1'	8.80	128.48	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	283	U	C5'-C4'-O4'	8.80	119.66	109.10
1	N	728	A	C5-C6-N1	-8.80	113.30	117.70
1	N	1229	A	C5-C6-N1	-8.80	113.30	117.70
1	N	1410	A	C5-C6-N6	-8.80	116.66	123.70
1	N	1404	C	O4'-C1'-N1	8.80	115.24	108.20
1	N	655	A	C4-C5-N7	-8.79	106.30	110.70
1	N	577	G	C5-C6-O6	-8.79	123.32	128.60
1	N	468	A	N3-C4-C5	-8.79	120.65	126.80
1	N	1059	C	C2-N3-C4	-8.79	115.51	119.90
1	N	1516	G	N3-C2-N2	8.79	126.05	119.90
1	N	801	U	O4'-C1'-N1	8.79	115.23	108.20
1	N	809	G	N9-C4-C5	8.79	108.92	105.40
1	N	856	C	O4'-C4'-C3'	-8.79	95.21	104.00
1	N	1169	A	C5-N7-C8	-8.79	99.51	103.90
1	N	1359	C	O4'-C1'-N1	8.79	115.23	108.20
1	N	349	A	O4'-C1'-N9	8.78	115.23	108.20
1	N	1360	A	N1-C2-N3	8.79	133.69	129.30
1	N	70	U	P-O3'-C3'	8.78	130.24	119.70
1	N	442	G	N9-C4-C5	-8.78	101.89	105.40
1	N	131	A	O4'-C1'-N9	8.78	115.22	108.20
1	N	785	G	C4-C5-N7	8.78	114.31	110.80
1	N	872	A	N1-C6-N6	8.78	123.87	118.60
1	N	1417	G	N1-C6-O6	8.78	125.17	119.90
1	N	1142	G	N1-C6-O6	8.78	125.17	119.90
1	N	9	G	P-O3'-C3'	-8.78	109.17	119.70
1	N	72	A	C5-C6-N6	-8.78	116.68	123.70
1	N	480	U	O4'-C1'-N1	8.78	115.22	108.20
1	N	901	A	C4-C5-C6	8.78	121.39	117.00
1	N	988	G	C5-C6-O6	-8.78	123.33	128.60
1	N	1105	A	C5-N7-C8	8.78	108.29	103.90
1	N	499	A	N1-C6-N6	8.78	123.87	118.60
1	N	682	G	N1-C6-O6	8.78	125.17	119.90
1	N	1398	A	O4'-C1'-N9	8.78	115.22	108.20
1	N	849	G	N1-C2-N3	-8.77	118.64	123.90
1	N	1374	A	C5-C6-N1	-8.77	113.31	117.70
1	N	1363	A	C8-N9-C4	-8.77	102.29	105.80
1	N	1158	C	C6-N1-C1'	-8.77	110.28	120.80
1	N	80	A	C1'-O4'-C4'	8.77	116.92	109.90
1	N	695	A	C2-N3-C4	-8.77	106.22	110.60
1	N	1133	G	C5-C6-N1	-8.77	107.12	111.50
1	N	45	G	N1-C6-O6	8.77	125.16	119.90
1	N	972	C	C4-C5-C6	8.77	121.78	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	621	A	O4'-C1'-N9	8.76	115.21	108.20
1	N	1066	C	N1-C2-N3	-8.76	113.07	119.20
1	N	1147	C	N3-C4-C5	-8.76	118.39	121.90
1	N	1387	G	C6-C5-N7	-8.76	125.14	130.40
1	N	1432	G	C5-C6-O6	-8.76	123.34	128.60
1	N	65	A	C1'-O4'-C4'	-8.76	102.89	109.90
1	N	100	G	N9-C4-C5	-8.76	101.90	105.40
1	N	380	G	C2-N3-C4	8.76	116.28	111.90
1	N	155	A	N7-C8-N9	-8.76	109.42	113.80
1	N	551	U	O4'-C1'-N1	8.76	115.20	108.20
1	N	1244	G	N1-C2-N3	-8.76	118.65	123.90
1	N	114	U	C5-C6-N1	8.75	127.08	122.70
1	N	931	C	N1-C2-O2	8.75	124.15	118.90
1	N	909	A	N1-C6-N6	8.75	123.85	118.60
1	N	1219	A	C5-C6-N6	-8.75	116.70	123.70
1	N	1284	C	O4'-C1'-N1	8.75	115.20	108.20
1	N	1124	G	N7-C8-N9	-8.75	108.72	113.10
1	N	813	U	O4'-C1'-N1	8.75	115.20	108.20
1	N	53	A	C5-N7-C8	8.75	108.27	103.90
1	N	369	G	N1-C6-O6	8.75	125.15	119.90
1	N	376	G	O4'-C1'-N9	8.74	115.19	108.20
1	N	756	C	N3-C4-C5	-8.74	118.40	121.90
1	N	1315	U	C4-C5-C6	8.74	124.95	119.70
1	N	284	C	N3-C4-N4	8.74	124.12	118.00
1	N	1244	G	N1-C6-O6	8.74	125.14	119.90
1	N	734	G	O4'-C1'-N9	8.74	115.19	108.20
1	N	1204	A	C5-C6-N1	-8.74	113.33	117.70
1	N	1483	A	C5-N7-C8	8.74	108.27	103.90
1	N	376	G	C5-C6-O6	-8.74	123.36	128.60
1	N	698	G	C2-N3-C4	8.74	116.27	111.90
1	N	1082	A	C2-N3-C4	-8.74	106.23	110.60
1	N	1102	A	P-O5'-C5'	8.74	134.88	120.90
1	N	1238	A	C2-N3-C4	8.74	114.97	110.60
1	N	1505	G	N1-C6-O6	8.74	125.14	119.90
1	N	1207	G	O4'-C1'-N9	8.74	115.19	108.20
1	N	237	G	C5-C6-O6	-8.73	123.36	128.60
1	N	453	G	N3-C2-N2	8.73	126.01	119.90
1	N	1091	U	P-O3'-C3'	8.73	130.18	119.70
1	N	1438	G	C5-C6-O6	-8.73	123.36	128.60
1	N	470	C	N3-C4-C5	-8.73	118.41	121.90
1	N	71	A	N1-C6-N6	8.73	123.84	118.60
1	N	1172	C	O4'-C1'-N1	8.73	115.18	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	240	G	N1-C2-N3	-8.72	118.67	123.90
1	N	1108	G	C5-C6-O6	-8.72	123.37	128.60
1	N	1318	A	N7-C8-N9	8.72	118.16	113.80
1	N	238	A	C4-C5-N7	-8.72	106.34	110.70
1	N	1304	G	N3-C2-N2	8.72	126.00	119.90
1	N	181	A	N1-C6-N6	8.72	123.83	118.60
1	N	412	A	C6-N1-C2	8.72	123.83	118.60
1	N	459	A	C4-C5-C6	8.72	121.36	117.00
1	N	526	C	N3-C4-N4	8.72	124.10	118.00
1	N	1449	C	O4'-C1'-N1	8.72	115.17	108.20
1	N	459	A	O4'-C1'-N9	8.71	115.17	108.20
1	N	513	C	N3-C4-N4	8.71	124.10	118.00
1	N	730	G	P-O3'-C3'	8.71	130.15	119.70
1	N	787	A	C2-N3-C4	-8.71	106.25	110.60
1	N	853	C	N3-C4-C5	-8.71	118.42	121.90
1	N	1171	A	N1-C2-N3	-8.71	124.94	129.30
1	N	858	G	C8-N9-C4	-8.71	102.92	106.40
1	N	1174	G	C5-C6-N1	-8.71	107.15	111.50
1	N	440	C	C2-N3-C4	-8.70	115.55	119.90
1	N	100	G	C5-N7-C8	-8.70	99.95	104.30
1	N	586	C	C6-N1-C2	-8.70	116.82	120.30
1	N	640	A	N7-C8-N9	8.70	118.15	113.80
1	N	856	C	O4'-C1'-N1	8.70	115.16	108.20
1	N	1282	C	N3-C4-C5	-8.70	118.42	121.90
1	N	1361	G	N3-C4-C5	8.70	132.95	128.60
1	N	498	A	C5-C6-N6	-8.70	116.74	123.70
1	N	397	A	C5-N7-C8	8.69	108.25	103.90
1	N	1210	C	N3-C4-N4	8.69	124.09	118.00
1	N	1204	A	O4'-C1'-N9	8.69	115.16	108.20
1	N	1167	A	C5-C6-N6	-8.69	116.75	123.70
1	N	151	A	C6-C5-N7	-8.69	126.22	132.30
1	N	373	A	C5'-C4'-O4'	-8.69	98.67	109.10
1	N	1446	A	C6-C5-N7	-8.69	126.22	132.30
1	N	1307	U	O4'-C1'-N1	8.69	115.15	108.20
1	N	205	A	O4'-C1'-N9	8.69	115.15	108.20
1	N	927	G	C8-N9-C4	-8.69	102.93	106.40
1	N	316	C	N3-C4-C5	-8.68	118.43	121.90
1	N	981	U	C5-C4-O4	-8.68	120.69	125.90
1	N	1000	A	C6-C5-N7	-8.68	126.22	132.30
1	N	85	U	O4'-C1'-N1	8.68	115.14	108.20
1	N	1135	U	O4'-C1'-N1	8.68	115.14	108.20
1	N	1297	G	N3-C2-N2	8.68	125.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	574	A	C5-N7-C8	8.68	108.24	103.90
1	N	962	C	O4'-C1'-N1	8.68	115.14	108.20
1	N	75	G	O4'-C1'-N9	8.67	115.14	108.20
1	N	342	C	O4'-C1'-N1	8.67	115.14	108.20
1	N	487	A	O4'-C1'-N9	8.67	115.14	108.20
1	N	1526	G	N1-C2-N3	-8.67	118.70	123.90
1	N	602	A	C5-C6-N6	-8.67	116.77	123.70
1	N	567	G	C6-C5-N7	-8.67	125.20	130.40
1	N	1385	G	C8-N9-C4	-8.67	102.93	106.40
1	N	1423	G	N9-C4-C5	-8.67	101.93	105.40
1	N	1021	A	C4-C5-C6	8.66	121.33	117.00
1	N	152	A	N1-C2-N3	-8.66	124.97	129.30
1	N	679	C	O4'-C1'-N1	8.66	115.13	108.20
1	N	816	A	N9-C4-C5	8.66	109.26	105.80
1	N	1152	A	C5-C6-N1	-8.66	113.37	117.70
1	N	1398	A	C6-C5-N7	-8.66	126.24	132.30
1	N	1437	A	C4-C5-C6	8.66	121.33	117.00
1	N	721	G	P-O3'-C3'	8.65	130.09	119.70
1	N	801	U	C4-C5-C6	8.65	124.89	119.70
1	N	1310	G	C4'-C3'-C2'	-8.65	93.94	102.60
1	N	1326	U	C6-N1-C2	8.65	126.19	121.00
1	N	1366	C	N1-C2-O2	-8.65	113.71	118.90
1	N	766	A	C4-C5-C6	8.65	121.33	117.00
1	N	476	U	O4'-C1'-N1	8.65	115.12	108.20
1	N	796	C	C4'-C3'-C2'	-8.65	93.95	102.60
1	N	78	A	C2-N3-C4	-8.64	106.28	110.60
1	N	470	C	O4'-C1'-N1	8.64	115.11	108.20
1	N	730	G	N3-C2-N2	8.64	125.95	119.90
1	N	1361	G	N1-C6-O6	8.64	125.08	119.90
1	N	1395	C	P-O3'-C3'	8.64	130.07	119.70
1	N	1404	C	C6-N1-C2	8.64	123.75	120.30
1	N	607	A	C5-C6-N1	-8.63	113.38	117.70
1	N	223	A	C6-N1-C2	8.63	123.78	118.60
1	N	964	A	C4-C5-C6	8.63	121.31	117.00
1	N	1240	U	P-O3'-C3'	8.63	130.05	119.70
1	N	375	U	N3-C4-O4	8.62	125.44	119.40
1	N	1246	A	N9-C4-C5	-8.62	102.35	105.80
1	N	135	C	N3-C4-N4	8.62	124.03	118.00
1	N	1379	G	C5-C6-O6	-8.62	123.43	128.60
1	N	556	C	C4-C5-C6	8.62	121.71	117.40
1	N	679	C	N3-C4-C5	-8.62	118.45	121.90
1	N	770	C	C4'-C3'-C2'	-8.62	93.98	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	825	A	C4-C5-C6	8.62	121.31	117.00
1	N	524	G	O4'-C1'-N9	8.62	115.09	108.20
1	N	1316	G	C5-C6-O6	-8.62	123.43	128.60
1	N	1468	A	C5'-C4'-O4'	8.62	119.44	109.10
1	N	1326	U	N1-C2-N3	-8.61	109.73	114.90
1	N	275	G	C2-N3-C4	-8.61	107.60	111.90
1	N	634	C	O4'-C1'-N1	8.61	115.09	108.20
1	N	920	U	N3-C4-C5	-8.61	109.43	114.60
1	N	614	C	O4'-C1'-N1	8.61	115.08	108.20
1	N	763	G	O4'-C1'-N9	8.61	115.09	108.20
1	N	14	U	N3-C2-O2	-8.61	116.18	122.20
1	N	18	C	O4'-C1'-N1	8.61	115.08	108.20
1	N	1111	A	C8-N9-C4	-8.61	102.36	105.80
1	N	1244	G	C5-N7-C8	-8.61	100.00	104.30
1	N	533	A	C5'-C4'-O4'	8.60	119.42	109.10
1	N	734	G	N1-C6-O6	8.60	125.06	119.90
1	N	1006	G	C2-N3-C4	8.60	116.20	111.90
1	N	1089	G	C2-N3-C4	8.60	116.20	111.90
1	N	225	C	C2-N3-C4	8.60	124.20	119.90
1	N	899	C	N3-C4-C5	-8.60	118.46	121.90
1	N	1370	G	C5-C6-N1	-8.60	107.20	111.50
1	N	536	C	O4'-C1'-N1	8.60	115.08	108.20
1	N	1066	C	C2-N3-C4	8.60	124.20	119.90
1	N	423	G	C8-N9-C4	-8.59	102.96	106.40
1	N	1093	A	N9-C4-C5	8.59	109.24	105.80
1	N	262	A	C5-C6-N6	-8.59	116.83	123.70
1	N	1080	A	N1-C2-N3	-8.59	125.00	129.30
1	N	718	A	N1-C6-N6	8.59	123.75	118.60
1	N	1242	G	C4-C5-C6	8.59	123.95	118.80
1	N	1244	G	O4'-C1'-N9	8.59	115.07	108.20
1	N	1375	A	C3'-C2'-C1'	8.59	108.37	101.50
1	N	426	U	P-O3'-C3'	8.59	130.00	119.70
1	N	86	G	C5-C6-O6	-8.58	123.45	128.60
1	N	385	C	C5-C4-N4	-8.58	114.19	120.20
1	N	727	G	O4'-C1'-N9	8.58	115.07	108.20
1	N	190	A	C5-N7-C8	8.58	108.19	103.90
1	N	230	G	N1-C6-O6	8.58	125.05	119.90
1	N	467	U	C6-N1-C1'	-8.58	109.19	121.20
1	N	775	G	C2-N3-C4	8.58	116.19	111.90
1	N	856	C	N1-C2-O2	-8.58	113.75	118.90
1	N	1107	C	N1-C2-O2	-8.58	113.75	118.90
1	N	764	C	N3-C4-N4	8.58	124.00	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	830	G	C6-C5-N7	-8.58	125.25	130.40
1	N	477	C	C6-N1-C2	-8.57	116.87	120.30
1	N	905	U	O4'-C1'-N1	8.57	115.06	108.20
1	N	1514	G	C4-C5-N7	8.57	114.23	110.80
1	N	29	U	N3-C4-O4	8.57	125.40	119.40
1	N	211	G	O4'-C1'-N9	8.56	115.05	108.20
1	N	443	C	C4-C5-C6	8.56	121.68	117.40
1	N	711	G	N3-C4-N9	-8.56	120.86	126.00
1	N	795	C	O4'-C1'-N1	8.56	115.05	108.20
1	N	798	U	C2-N3-C4	8.56	132.14	127.00
1	N	1155	A	C2-N3-C4	-8.56	106.32	110.60
1	N	220	G	C5-C6-O6	-8.56	123.46	128.60
1	N	1137	C	C5-C4-N4	-8.56	114.21	120.20
1	N	711	G	C8-N9-C4	-8.56	102.98	106.40
1	N	816	A	C6-C5-N7	-8.56	126.31	132.30
1	N	1079	G	P-O3'-C3'	8.56	129.97	119.70
1	N	1257	A	N1-C6-N6	8.56	123.73	118.60
1	N	1495	U	C2-N3-C4	8.56	132.14	127.00
1	N	1013	G	N3-C2-N2	8.56	125.89	119.90
1	N	796	C	C6-N1-C1'	-8.56	110.53	120.80
1	N	1074	G	N1-C6-O6	8.56	125.03	119.90
1	N	121	U	P-O3'-C3'	-8.55	109.44	119.70
1	N	774	G	C8-N9-C4	8.55	109.82	106.40
1	N	1517	G	N9-C4-C5	-8.55	101.98	105.40
1	N	332	G	N1-C6-O6	8.55	125.03	119.90
1	N	1444	U	C5-C4-O4	-8.55	120.77	125.90
1	N	1508	A	C5-C6-N1	-8.55	113.42	117.70
1	N	53	A	P-O5'-C5'	8.55	134.58	120.90
1	N	324	G	N1-C2-N3	-8.55	118.77	123.90
1	N	402	G	N1-C6-O6	8.55	125.03	119.90
1	N	1220	G	C6-C5-N7	-8.55	125.27	130.40
1	N	215	C	C3'-C2'-C1'	8.54	108.34	101.50
1	N	248	C	C2-N3-C4	8.54	124.17	119.90
1	N	441	A	C5-C6-N1	-8.55	113.43	117.70
1	N	1352	C	N3-C4-N4	8.55	123.98	118.00
1	N	290	C	N3-C4-N4	8.54	123.98	118.00
1	N	730	G	C1'-O4'-C4'	8.54	116.73	109.90
1	N	953	G	C5-C6-O6	-8.54	123.47	128.60
1	N	897	C	C6-N1-C2	-8.54	116.88	120.30
1	N	638	U	O4'-C1'-N1	8.54	115.03	108.20
1	N	213	G	C4-C5-C6	8.54	123.92	118.80
1	N	1467	C	N3-C4-C5	-8.54	118.48	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	245	U	O4'-C1'-N1	8.54	115.03	108.20
1	N	1180	A	N7-C8-N9	-8.54	109.53	113.80
1	N	960	U	C6-N1-C1'	-8.53	109.25	121.20
1	N	1238	A	N1-C2-N3	-8.54	125.03	129.30
1	N	1427	C	N3-C4-C5	-8.54	118.49	121.90
1	N	1019	A	C5-C6-N1	-8.53	113.43	117.70
1	N	1120	C	N3-C4-C5	-8.53	118.49	121.90
1	N	1252	A	C5-C6-N1	-8.53	113.43	117.70
1	N	305	G	C5-C6-N1	-8.53	107.23	111.50
1	N	693	G	C5-C6-N1	-8.53	107.23	111.50
1	N	445	G	C8-N9-C4	-8.53	102.99	106.40
1	N	240	G	C4-C5-C6	8.53	123.92	118.80
1	N	573	A	C2-N3-C4	-8.53	106.34	110.60
1	N	614	C	C6-N1-C2	-8.53	116.89	120.30
1	N	735	C	O4'-C1'-N1	8.53	115.02	108.20
1	N	122	G	O4'-C1'-N9	8.52	115.02	108.20
1	N	378	G	O4'-C4'-C3'	-8.52	95.48	104.00
1	N	725	G	N1-C2-N3	-8.52	118.78	123.90
1	N	1024	G	N1-C6-O6	8.52	125.01	119.90
1	N	1105	A	C5-C6-N1	-8.52	113.44	117.70
1	N	1468	A	C8-N9-C4	-8.52	102.39	105.80
1	N	95	C	N3-C4-N4	8.52	123.97	118.00
1	N	1239	A	C5-C6-N6	-8.52	116.88	123.70
1	N	1167	A	C4-C5-C6	8.52	121.26	117.00
1	N	1221	G	N1-C6-O6	8.52	125.01	119.90
1	N	457	G	O4'-C1'-N9	8.52	115.01	108.20
1	N	1081	A	C4-C5-C6	8.52	121.26	117.00
1	N	258	G	N9-C4-C5	-8.51	102.00	105.40
1	N	979	C	C6-N1-C2	8.51	123.70	120.30
1	N	447	G	C6-N1-C2	8.51	130.21	125.10
1	N	581	G	P-O3'-C3'	-8.51	109.49	119.70
1	N	1353	G	C6-C5-N7	-8.51	125.29	130.40
1	N	1520	C	N3-C4-N4	8.51	123.96	118.00
1	N	1236	A	C5-C6-N6	-8.51	116.89	123.70
1	N	70	U	C5-C6-N1	8.50	126.95	122.70
1	N	474	G	O4'-C1'-N9	8.50	115.00	108.20
1	N	515	G	N9-C4-C5	-8.50	102.00	105.40
1	N	1280	A	N1-C6-N6	8.50	123.70	118.60
1	N	978	A	C5-C6-N6	-8.50	116.90	123.70
1	N	1109	C	C6-N1-C2	8.50	123.70	120.30
1	N	1180	A	C5-C6-N6	-8.50	116.90	123.70
1	N	423	G	N9-C4-C5	8.50	108.80	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1486	G	N9-C4-C5	8.50	108.80	105.40
1	N	11	G	C5-C6-N1	-8.49	107.25	111.50
1	N	221	C	C1'-O4'-C4'	8.49	116.69	109.90
1	N	904	U	C2-N3-C4	8.49	132.10	127.00
1	N	1396	A	C5-N7-C8	8.49	108.15	103.90
1	N	1530	G	C6-C5-N7	-8.49	125.30	130.40
1	N	734	G	C5-C6-O6	-8.49	123.50	128.60
1	N	1171	A	N1-C6-N6	8.49	123.69	118.60
1	N	1182	G	N3-C2-N2	-8.49	113.95	119.90
1	N	555	U	C5-C6-N1	8.49	126.94	122.70
1	N	1276	G	N1-C6-O6	8.49	124.99	119.90
1	N	55	A	C1'-O4'-C4'	8.49	116.69	109.90
1	N	393	A	C5-C6-N6	-8.49	116.91	123.70
1	N	1443	C	P-O3'-C3'	-8.49	109.52	119.70
1	N	33	A	C4-C5-C6	8.48	121.24	117.00
1	N	209	U	O4'-C1'-N1	8.48	114.99	108.20
1	N	341	C	O4'-C1'-N1	8.48	114.99	108.20
1	N	554	A	C2-N3-C4	-8.48	106.36	110.60
1	N	1038	C	N3-C4-N4	8.48	123.94	118.00
1	N	1329	A	C5-C6-N1	-8.48	113.46	117.70
1	N	448	A	C5-C6-N1	-8.48	113.46	117.70
1	N	1272	G	N1-C2-N3	-8.48	118.81	123.90
1	N	183	C	N3-C4-N4	8.47	123.93	118.00
1	N	1151	A	N1-C2-N3	8.47	133.54	129.30
1	N	149	A	C5-N7-C8	8.47	108.14	103.90
1	N	580	C	C6-N1-C1'	-8.47	110.63	120.80
1	N	616	G	C5-C6-O6	-8.47	123.52	128.60
1	N	975	A	C6-C5-N7	-8.47	126.37	132.30
1	N	1072	G	C5-C6-N1	-8.47	107.26	111.50
1	N	211	G	C4'-C3'-C2'	8.47	111.07	102.60
1	N	566	G	C5-C6-O6	-8.47	123.52	128.60
1	N	1033	G	C6-C5-N7	-8.47	125.32	130.40
1	N	1033	G	C8-N9-C4	-8.47	103.01	106.40
1	N	63	C	C6-N1-C1'	-8.47	110.64	120.80
1	N	225	C	N3-C4-C5	-8.47	118.51	121.90
1	N	260	G	O4'-C1'-N9	8.47	114.97	108.20
1	N	502	A	C5-C6-N1	-8.47	113.47	117.70
1	N	829	G	C4-C5-C6	8.47	123.88	118.80
1	N	1491	G	C5-C6-O6	-8.47	123.52	128.60
1	N	61	G	O4'-C1'-N9	8.46	114.97	108.20
1	N	311	C	C5-C6-N1	-8.47	116.77	121.00
1	N	1433	A	C5-C6-N1	-8.46	113.47	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	410	G	N7-C8-N9	-8.46	108.87	113.10
1	N	482	A	C5-C6-N6	-8.46	116.93	123.70
1	N	60	A	N1-C6-N6	8.46	123.68	118.60
1	N	563	A	C4-C5-N7	-8.46	106.47	110.70
1	N	425	G	C8-N9-C1'	8.46	137.99	127.00
1	N	1335	U	C2-N3-C4	-8.46	121.92	127.00
1	N	178	C	N3-C4-N4	8.46	123.92	118.00
1	N	1186	G	C4-C5-C6	-8.46	113.73	118.80
1	N	1324	A	C5-C6-N1	-8.46	113.47	117.70
1	N	1393	U	C5-C4-O4	-8.46	120.83	125.90
1	N	172	A	C4-C5-C6	8.45	121.23	117.00
1	N	154	U	N1-C2-O2	-8.45	116.88	122.80
1	N	183	C	C4-C5-C6	8.45	121.63	117.40
1	N	320	A	N7-C8-N9	-8.45	109.57	113.80
1	N	1225	A	C2-N3-C4	-8.45	106.37	110.60
1	N	1253	G	N1-C2-N3	-8.45	118.83	123.90
1	N	1401	G	N1-C6-O6	8.45	124.97	119.90
1	N	1491	G	C8-N9-C4	8.45	109.78	106.40
1	N	15	G	C8-N9-C4	-8.45	103.02	106.40
1	N	693	G	N1-C6-O6	8.45	124.97	119.90
1	N	64	G	C8-N9-C4	8.45	109.78	106.40
1	N	815	A	C1'-O4'-C4'	-8.45	103.14	109.90
1	N	716	A	O4'-C1'-N9	8.45	114.96	108.20
1	N	1012	A	N1-C6-N6	8.45	123.67	118.60
1	N	1246	A	C8-N9-C4	8.45	109.18	105.80
1	N	390	U	N1-C2-N3	8.44	119.97	114.90
1	N	1038	C	N1-C2-N3	-8.44	113.29	119.20
1	N	218	U	P-O5'-C5'	8.44	134.41	120.90
1	N	1358	U	N3-C4-O4	8.44	125.31	119.40
1	N	1362	A	N9-C4-C5	8.44	109.18	105.80
1	N	333	U	C5-C6-N1	-8.44	118.48	122.70
1	N	350	G	C5'-C4'-C3'	-8.44	102.50	116.00
1	N	193	C	O4'-C1'-N1	8.44	114.95	108.20
1	N	203	G	N7-C8-N9	-8.44	108.88	113.10
1	N	221	C	O4'-C1'-N1	8.43	114.94	108.20
1	N	307	C	C2-N3-C4	8.43	124.12	119.90
1	N	875	U	C4'-C3'-C2'	-8.43	94.17	102.60
1	N	770	C	N3-C4-C5	-8.43	118.53	121.90
1	N	1483	A	N1-C6-N6	8.43	123.66	118.60
1	N	475	C	C4-C5-C6	8.43	121.61	117.40
1	N	907	A	C5-C6-N1	-8.43	113.49	117.70
1	N	1496	C	C1'-O4'-C4'	8.43	116.64	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	761	G	C8-N9-C4	8.42	109.77	106.40
1	N	999	C	P-O5'-C5'	8.42	134.38	120.90
1	N	1129	C	P-O5'-C5'	8.42	134.38	120.90
1	N	1223	C	C1'-O4'-C4'	-8.42	103.16	109.90
1	N	1358	U	O4'-C1'-N1	8.42	114.94	108.20
1	N	142	G	N1-C6-O6	8.41	124.95	119.90
1	N	615	G	C5-C6-O6	-8.41	123.55	128.60
1	N	353	A	P-O3'-C3'	8.41	129.79	119.70
1	N	1482	G	C2-N3-C4	8.41	116.11	111.90
1	N	356	A	C5-C6-N1	-8.41	113.50	117.70
1	N	916	U	N3-C4-O4	8.41	125.29	119.40
1	N	923	A	C5-C6-N1	-8.41	113.50	117.70
1	N	999	C	C5-C4-N4	-8.41	114.31	120.20
1	N	1128	C	N3-C2-O2	8.41	127.79	121.90
1	N	1226	C	O4'-C1'-N1	8.41	114.93	108.20
1	N	102	G	N3-C2-N2	8.40	125.78	119.90
1	N	675	A	N9-C4-C5	8.40	109.16	105.80
1	N	867	G	C4-C5-N7	8.40	114.16	110.80
1	N	664	G	C5-C6-O6	-8.40	123.56	128.60
1	N	54	C	N1-C2-O2	-8.40	113.86	118.90
1	N	359	G	C5-N7-C8	-8.40	100.10	104.30
1	N	759	A	C5-C6-N1	-8.40	113.50	117.70
1	N	1124	G	C5-C6-O6	-8.40	123.56	128.60
1	N	1357	A	N7-C8-N9	8.40	118.00	113.80
1	N	183	C	C6-N1-C2	-8.40	116.94	120.30
1	N	1035	A	C2-N3-C4	8.40	114.80	110.60
1	N	1063	C	N3-C4-C5	-8.40	118.54	121.90
1	N	1179	A	C4-C5-C6	8.40	121.20	117.00
1	N	852	G	O4'-C1'-N9	8.39	114.92	108.20
1	N	1183	U	C2-N3-C4	8.39	132.04	127.00
1	N	1255	G	O4'-C1'-N9	8.39	114.92	108.20
1	N	1350	A	N1-C6-N6	8.39	123.64	118.60
1	N	604	G	N1-C6-O6	8.39	124.94	119.90
1	N	715	A	C2-N3-C4	-8.39	106.41	110.60
1	N	1296	C	C2-N3-C4	8.39	124.10	119.90
1	N	1435	G	C4-C5-N7	8.39	114.16	110.80
1	N	207	C	C6-N1-C2	8.39	123.66	120.30
1	N	1471	U	O4'-C1'-N1	8.39	114.91	108.20
1	N	19	A	C4-C5-N7	-8.38	106.51	110.70
1	N	1088	G	P-O3'-C3'	-8.38	109.64	119.70
1	N	1117	A	N9-C4-C5	8.38	109.15	105.80
1	N	198	G	N1-C6-O6	8.38	124.93	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	600	A	C5-C6-N1	-8.38	113.51	117.70
1	N	779	C	N3-C4-N4	8.38	123.87	118.00
1	N	572	A	C5-C6-N1	-8.38	113.51	117.70
1	N	599	C	C2-N3-C4	8.38	124.09	119.90
1	N	1184	G	P-O5'-C5'	8.38	134.31	120.90
1	N	576	C	N1-C2-N3	-8.38	113.34	119.20
1	N	391	G	N3-C2-N2	8.38	125.76	119.90
1	N	606	G	C5-C6-N1	-8.37	107.31	111.50
1	N	810	C	N3-C4-N4	8.38	123.86	118.00
1	N	939	G	N3-C4-C5	8.38	132.79	128.60
1	N	19	A	C4-C5-C6	8.37	121.19	117.00
1	N	943	U	C2-N3-C4	8.37	132.02	127.00
1	N	1155	A	N1-C2-N3	8.37	133.49	129.30
1	N	35	G	O4'-C1'-N9	8.37	114.89	108.20
1	N	41	G	N1-C6-O6	8.37	124.92	119.90
1	N	311	C	C4-C5-C6	8.37	121.58	117.40
1	N	1186	G	C6-N1-C2	-8.37	120.08	125.10
1	N	990	C	C4-C5-C6	8.37	121.58	117.40
1	N	1446	A	N1-C6-N6	8.37	123.62	118.60
1	N	871	U	C5-C4-O4	-8.37	120.88	125.90
1	N	754	C	C4'-C3'-C2'	8.36	110.96	102.60
1	N	1443	C	O4'-C1'-N1	8.36	114.89	108.20
1	N	1203	C	P-O5'-C5'	8.36	134.28	120.90
1	N	88	U	C6-N1-C2	-8.36	115.98	121.00
1	N	1092	A	P-O3'-C3'	8.36	129.73	119.70
1	N	158	G	O4'-C1'-N9	8.36	114.89	108.20
1	N	357	G	N1-C6-O6	8.36	124.91	119.90
1	N	945	G	C6-C5-N7	-8.36	125.39	130.40
1	N	1178	G	N3-C2-N2	8.36	125.75	119.90
1	N	1299	A	C5-C6-N1	-8.36	113.52	117.70
1	N	448	A	C4-C5-N7	-8.36	106.52	110.70
1	N	128	G	C2-N3-C4	8.35	116.08	111.90
1	N	866	C	P-O5'-C5'	8.35	134.26	120.90
1	N	807	A	O4'-C1'-N9	8.35	114.88	108.20
1	N	1487	G	N1-C6-O6	8.35	124.91	119.90
1	N	317	U	N1-C2-N3	8.35	119.91	114.90
1	N	1513	A	C5'-C4'-C3'	8.35	129.36	116.00
1	N	494	G	O4'-C1'-N9	8.35	114.88	108.20
1	N	1152	A	O4'-C1'-N9	8.35	114.88	108.20
1	N	135	C	C5-C4-N4	-8.35	114.36	120.20
1	N	1049	U	O4'-C1'-N1	8.35	114.88	108.20
1	N	1397	C	C6-N1-C2	8.35	123.64	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	497	G	N3-C2-N2	8.34	125.74	119.90
1	N	505	G	N1-C6-O6	8.34	124.91	119.90
1	N	983	A	C5-C6-N1	-8.34	113.53	117.70
1	N	204	G	N1-C2-N3	-8.34	118.90	123.90
1	N	1247	U	O4'-C1'-N1	8.34	114.87	108.20
1	N	1254	A	C4-C5-N7	-8.34	106.53	110.70
1	N	77	A	C5-C6-N1	-8.34	113.53	117.70
1	N	308	C	C5-C6-N1	-8.34	116.83	121.00
1	N	765	G	N1-C6-O6	8.33	124.90	119.90
1	N	1031	C	C2-N3-C4	8.33	124.07	119.90
1	N	474	G	N1-C2-N3	-8.33	118.90	123.90
1	N	1000	A	C5-C6-N6	-8.33	117.03	123.70
1	N	1160	G	C4-C5-C6	8.33	123.80	118.80
1	N	395	C	N3-C4-N4	8.33	123.83	118.00
1	N	518	C	N3-C4-N4	8.33	123.83	118.00
1	N	328	C	N1-C2-O2	8.33	123.90	118.90
1	N	351	G	O4'-C1'-N9	8.33	114.86	108.20
1	N	352	C	O4'-C1'-N1	8.33	114.86	108.20
1	N	31	G	O4'-C1'-N9	8.32	114.85	108.20
1	N	119	A	N1-C2-N3	-8.32	125.14	129.30
1	N	674	G	N1-C2-N3	-8.31	118.91	123.90
1	N	856	C	N3-C2-O2	8.31	127.72	121.90
1	N	1282	C	P-O3'-C3'	-8.31	109.72	119.70
1	N	1082	A	C5-C6-N1	-8.31	113.54	117.70
1	N	631	C	C2-N3-C4	8.31	124.06	119.90
1	N	921	U	O4'-C1'-N1	8.31	114.85	108.20
1	N	170	U	N3-C2-O2	8.31	128.02	122.20
1	N	1144	G	N3-C4-C5	-8.31	124.45	128.60
1	N	1144	G	N9-C4-C5	8.31	108.72	105.40
1	N	320	A	C8-N9-C4	8.30	109.12	105.80
1	N	624	C	O4'-C1'-N1	8.30	114.84	108.20
1	N	902	G	N1-C6-O6	8.31	124.88	119.90
1	N	311	C	O4'-C1'-N1	8.30	114.84	108.20
1	N	994	A	C5-C6-N6	-8.30	117.06	123.70
1	N	1338	G	C6-C5-N7	-8.30	125.42	130.40
1	N	1034	G	C5-N7-C8	8.29	108.45	104.30
1	N	1119	C	P-O3'-C3'	-8.29	109.75	119.70
1	N	1204	A	C5-C6-N6	-8.29	117.07	123.70
1	N	776	G	O4'-C1'-N9	8.29	114.83	108.20
1	N	1177	G	C4-C5-N7	8.29	114.11	110.80
1	N	127	G	N1-C2-N3	-8.29	118.93	123.90
1	N	1455	G	N3-C2-N2	8.29	125.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	584	G	N9-C4-C5	8.28	108.71	105.40
1	N	1006	G	N3-C2-N2	8.28	125.70	119.90
1	N	1369	C	O4'-C1'-N1	8.29	114.83	108.20
1	N	1492	A	O4'-C1'-N9	8.28	114.83	108.20
1	N	1114	C	C2-N3-C4	8.28	124.04	119.90
1	N	310	G	C8-N9-C4	-8.28	103.09	106.40
1	N	765	G	C5-N7-C8	-8.28	100.16	104.30
1	N	1173	U	O4'-C1'-N1	8.28	114.82	108.20
1	N	197	A	N9-C4-C5	8.27	109.11	105.80
1	N	104	G	N1-C2-N3	-8.27	118.94	123.90
1	N	372	C	C6-N1-C2	-8.27	116.99	120.30
1	N	1394	A	C5-C6-N1	-8.27	113.56	117.70
1	N	1311	A	C5-C6-N6	-8.27	117.08	123.70
1	N	98	A	N3-C4-C5	-8.27	121.01	126.80
1	N	772	U	C6-N1-C2	-8.27	116.04	121.00
1	N	781	A	C8-N9-C4	-8.27	102.49	105.80
1	N	662	U	O4'-C1'-N1	8.27	114.81	108.20
1	N	1290	G	C8-N9-C1'	-8.27	116.25	127.00
1	N	1317	C	O4'-C1'-N1	8.27	114.82	108.20
1	N	1011	C	C4-C5-C6	8.27	121.53	117.40
1	N	1390	U	N1-C2-O2	-8.27	117.01	122.80
1	N	1519	A	N1-C6-N6	8.27	123.56	118.60
1	N	58	C	N3-C4-N4	8.26	123.78	118.00
1	N	480	U	C2-N1-C1'	-8.26	107.78	117.70
1	N	885	G	N1-C6-O6	8.26	124.86	119.90
1	N	1256	A	C6-C5-N7	-8.26	126.52	132.30
1	N	1397	C	N3-C4-C5	-8.26	118.59	121.90
1	N	1412	C	N3-C4-N4	8.26	123.78	118.00
1	N	1501	C	C5-C4-N4	-8.26	114.42	120.20
1	N	14	U	O4'-C1'-N1	8.26	114.81	108.20
1	N	259	G	N1-C6-O6	8.26	124.86	119.90
1	N	595	A	N3-C4-C5	-8.26	121.02	126.80
1	N	784	A	O4'-C1'-N9	8.26	114.81	108.20
1	N	253	A	C5-C6-N1	-8.26	113.57	117.70
1	N	598	U	C6-N1-C2	-8.26	116.05	121.00
1	N	739	C	C6-N1-C2	-8.26	117.00	120.30
1	N	931	C	C4'-C3'-C2'	-8.26	94.34	102.60
1	N	1259	C	O4'-C1'-N1	8.26	114.81	108.20
1	N	469	C	C6-N1-C1'	-8.25	110.89	120.80
1	N	1151	A	C5-C6-N6	-8.25	117.10	123.70
1	N	1310	G	C5-C6-O6	-8.25	123.65	128.60
1	N	1316	G	N9-C4-C5	-8.25	102.10	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	57	G	C4-C5-C6	8.25	123.75	118.80
1	N	230	G	O4'-C1'-N9	8.25	114.80	108.20
1	N	1001	C	C5-C4-N4	-8.24	114.43	120.20
1	N	885	G	C5-N7-C8	8.24	108.42	104.30
1	N	1267	C	C5-C4-N4	-8.24	114.43	120.20
1	N	626	G	C5-C6-N1	-8.24	107.38	111.50
1	N	729	A	C4-C5-C6	8.24	121.12	117.00
1	N	766	A	C5-C6-N1	-8.24	113.58	117.70
1	N	853	C	N1-C2-N3	-8.24	113.43	119.20
1	N	1077	G	C6-N1-C2	-8.24	120.16	125.10
1	N	1370	G	C4-C5-C6	8.24	123.74	118.80
1	N	715	A	O4'-C1'-N9	8.24	114.79	108.20
1	N	1076	U	O4'-C4'-C3'	-8.24	95.76	104.00
1	N	599	C	O4'-C1'-N1	8.23	114.79	108.20
1	N	629	A	N3-C4-C5	-8.23	121.04	126.80
1	N	513	C	C5-C4-N4	-8.23	114.44	120.20
1	N	648	A	P-O5'-C5'	8.23	134.07	120.90
1	N	768	A	C5-C6-N6	-8.23	117.11	123.70
1	N	806	C	O4'-C1'-N1	8.23	114.78	108.20
1	N	1026	G	N3-C2-N2	8.23	125.66	119.90
1	N	1255	G	C6-N1-C2	8.23	130.04	125.10
1	N	1370	G	C4-C5-N7	-8.23	107.51	110.80
1	N	1375	A	C4'-C3'-C2'	-8.23	94.37	102.60
1	N	772	U	O4'-C1'-N1	8.23	114.78	108.20
1	N	975	A	C6-N1-C2	-8.23	113.66	118.60
1	N	1284	C	P-O5'-C5'	8.23	134.06	120.90
1	N	656	G	O4'-C1'-N9	8.22	114.78	108.20
1	N	1533	C	N3-C4-N4	8.22	123.76	118.00
1	N	1487	G	C4-C5-C6	8.22	123.73	118.80
1	N	484	G	N7-C8-N9	-8.22	108.99	113.10
1	N	745	G	O4'-C1'-N9	8.22	114.78	108.20
1	N	1386	G	P-O3'-C3'	-8.22	109.83	119.70
1	N	1012	A	C4-C5-C6	8.22	121.11	117.00
1	N	1242	G	C6-C5-N7	-8.22	125.47	130.40
1	N	1257	A	C5-C6-N6	-8.22	117.12	123.70
1	N	1337	G	C5-N7-C8	-8.22	100.19	104.30
1	N	693	G	C6-C5-N7	-8.22	125.47	130.40
1	N	1203	C	C5-C4-N4	-8.22	114.45	120.20
1	N	1276	G	C6-C5-N7	-8.22	125.47	130.40
1	N	251	G	N1-C6-O6	8.21	124.83	119.90
1	N	297	G	C5-C6-N1	-8.21	107.39	111.50
1	N	320	A	C5-C6-N6	-8.21	117.13	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	321	A	C5-N7-C8	8.21	108.01	103.90
1	N	440	C	P-O5'-C5'	8.21	134.04	120.90
1	N	448	A	C4-C5-C6	8.21	121.11	117.00
1	N	1353	G	N7-C8-N9	-8.21	108.99	113.10
1	N	640	A	C5-C6-N6	-8.21	117.13	123.70
1	N	1037	C	O4'-C1'-N1	8.21	114.77	108.20
1	N	1030	U	C5-C6-N1	8.21	126.80	122.70
1	N	1250	A	O4'-C1'-N9	8.21	114.77	108.20
1	N	759	A	P-O5'-C5'	8.21	134.03	120.90
1	N	855	U	N3-C4-O4	8.21	125.14	119.40
1	N	869	G	P-O3'-C3'	-8.21	109.85	119.70
1	N	72	A	N1-C6-N6	8.20	123.52	118.60
1	N	406	G	O4'-C1'-N9	8.20	114.76	108.20
1	N	450	G	P-O3'-C3'	8.20	129.54	119.70
1	N	517	G	C8-N9-C4	-8.20	103.12	106.40
1	N	723	U	P-O3'-C3'	-8.20	109.86	119.70
1	N	811	C	C5-C4-N4	-8.20	114.46	120.20
1	N	1110	A	C5-N7-C8	8.20	108.00	103.90
1	N	1136	C	N3-C4-C5	-8.20	118.62	121.90
1	N	46	G	P-O3'-C3'	8.20	129.54	119.70
1	N	455	G	O4'-C1'-N9	8.20	114.76	108.20
1	N	743	A	C4-C5-C6	8.20	121.10	117.00
1	N	1332	A	C6-N1-C2	-8.20	113.68	118.60
1	N	1390	U	N3-C4-O4	8.20	125.14	119.40
1	N	150	U	N1-C2-O2	-8.20	117.06	122.80
1	N	1394	A	O4'-C1'-N9	8.20	114.76	108.20
1	N	96	U	N1-C2-N3	-8.19	109.98	114.90
1	N	317	U	P-O5'-C5'	8.19	134.01	120.90
1	N	131	A	N1-C6-N6	8.19	123.51	118.60
1	N	205	A	C5-C6-N6	-8.19	117.15	123.70
1	N	235	C	C2-N3-C4	8.19	124.00	119.90
1	N	683	G	N1-C2-N3	-8.19	118.98	123.90
1	N	864	A	C5-C6-N6	-8.19	117.15	123.70
1	N	1072	G	C6-C5-N7	-8.19	125.48	130.40
1	N	1418	A	C5-C6-N6	-8.19	117.15	123.70
1	N	1521	C	O4'-C1'-N1	8.19	114.75	108.20
1	N	857	C	C4-C5-C6	-8.19	113.31	117.40
1	N	1141	C	O4'-C1'-N1	8.19	114.75	108.20
1	N	409	U	C6-N1-C2	-8.19	116.09	121.00
1	N	460	A	C1'-O4'-C4'	-8.19	103.35	109.90
1	N	486	U	P-O5'-C5'	-8.19	107.80	120.90
1	N	144	G	N3-C4-C5	8.18	132.69	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	248	C	O4'-C1'-N1	8.18	114.75	108.20
1	N	1258	G	N3-C2-N2	8.18	125.63	119.90
1	N	208	U	P-O5'-C5'	-8.18	107.81	120.90
1	N	641	U	P-O3'-C3'	8.18	129.52	119.70
1	N	871	U	P-O3'-C3'	8.18	129.51	119.70
1	N	1305	G	C8-N9-C4	-8.18	103.13	106.40
1	N	115	G	N1-C2-N3	-8.18	118.99	123.90
1	N	442	G	C8-N9-C4	8.18	109.67	106.40
1	N	967	C	C6-N1-C2	8.18	123.57	120.30
1	N	1019	A	P-O3'-C3'	-8.18	109.89	119.70
1	N	526	C	N3-C4-C5	-8.18	118.63	121.90
1	N	782	A	O4'-C1'-N9	8.18	114.74	108.20
1	N	964	A	C5-N7-C8	8.18	107.99	103.90
1	N	1228	C	P-O3'-C3'	8.18	129.51	119.70
1	N	1308	U	C5-C4-O4	8.18	130.81	125.90
1	N	709	U	N1-C1'-C2'	-8.17	103.01	112.00
1	N	1375	A	C2-N3-C4	-8.17	106.51	110.60
1	N	515	G	N7-C8-N9	8.17	117.19	113.10
1	N	592	G	N7-C8-N9	8.17	117.19	113.10
1	N	1271	A	N7-C8-N9	-8.17	109.71	113.80
1	N	1206	G	N1-C2-N3	-8.17	119.00	123.90
1	N	491	G	N3-C4-C5	-8.17	124.52	128.60
1	N	633	G	O4'-C1'-N9	8.17	114.73	108.20
1	N	294	U	C5'-C4'-C3'	8.16	129.06	116.00
1	N	1196	A	C5-C6-N1	-8.16	113.62	117.70
1	N	10	A	C5-N7-C8	8.16	107.98	103.90
1	N	366	A	C8-N9-C4	-8.16	102.53	105.80
1	N	381	C	C5-C4-N4	-8.16	114.49	120.20
1	N	129	A	N1-C6-N6	8.16	123.50	118.60
1	N	923	A	C5-C6-N6	-8.16	117.17	123.70
1	N	1113	C	P-O3'-C3'	8.16	129.49	119.70
1	N	1167	A	C8-N9-C4	8.16	109.06	105.80
1	N	1047	G	N1-C6-O6	8.15	124.79	119.90
1	N	54	C	C5-C4-N4	-8.15	114.49	120.20
1	N	357	G	C2-N3-C4	8.15	115.98	111.90
1	N	653	U	C4-C5-C6	8.15	124.59	119.70
1	N	780	A	C5-C6-N1	-8.15	113.63	117.70
1	N	889	A	O4'-C1'-N9	8.15	114.72	108.20
1	N	22	G	N9-C4-C5	-8.15	102.14	105.40
1	N	234	C	O4'-C1'-N1	8.15	114.72	108.20
1	N	563	A	C3'-C2'-C1'	8.14	108.02	101.50
1	N	25	C	O4'-C1'-N1	8.14	114.71	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	498	A	N1-C6-N6	8.14	123.49	118.60
1	N	374	A	O4'-C1'-N9	8.14	114.71	108.20
1	N	747	A	C4'-C3'-C2'	-8.14	94.46	102.60
1	N	1126	U	C6-N1-C2	-8.14	116.11	121.00
1	N	960	U	C2-N1-C1'	8.14	127.47	117.70
1	N	1260	G	C5-N7-C8	8.14	108.37	104.30
1	N	80	A	P-O3'-C3'	-8.14	109.94	119.70
1	N	216	U	C5'-C4'-C3'	8.14	129.02	116.00
1	N	229	U	P-O5'-C5'	8.14	133.92	120.90
1	N	1199	U	P-O5'-C5'	8.14	133.92	120.90
1	N	1296	C	O4'-C1'-C2'	8.14	114.92	107.60
1	N	226	G	C6-C5-N7	-8.14	125.52	130.40
1	N	520	A	C8-N9-C4	8.13	109.05	105.80
1	N	747	A	C5-C6-N1	-8.14	113.63	117.70
1	N	775	G	O4'-C1'-N9	8.14	114.71	108.20
1	N	659	U	C5-C6-N1	8.13	126.77	122.70
1	N	920	U	N3-C4-O4	8.13	125.09	119.40
1	N	938	A	C4-C5-C6	8.13	121.07	117.00
1	N	427	U	N3-C4-C5	-8.13	109.72	114.60
1	N	261	U	O4'-C1'-N1	8.13	114.70	108.20
1	N	339	C	N3-C4-C5	-8.13	118.65	121.90
1	N	862	C	C2-N3-C4	8.13	123.97	119.90
1	N	1347	G	N1-C2-N3	-8.13	119.02	123.90
1	N	1380	U	N3-C2-O2	8.13	127.89	122.20
1	N	30	U	P-O3'-C3'	8.13	129.45	119.70
1	N	256	U	O4'-C1'-N1	8.13	114.70	108.20
1	N	696	A	C4-C5-C6	8.12	121.06	117.00
1	N	877	G	C5-C6-N1	8.13	115.56	111.50
1	N	1323	G	N1-C6-O6	8.12	124.78	119.90
1	N	1510	C	C5-C4-N4	-8.12	114.51	120.20
1	N	375	U	C5-C4-O4	-8.12	121.03	125.90
1	N	1208	C	P-O5'-C5'	8.12	133.88	120.90
1	N	68	G	C6-C5-N7	-8.11	125.53	130.40
1	N	144	G	N1-C2-N3	-8.11	119.03	123.90
1	N	1204	A	C6-N1-C2	8.11	123.47	118.60
1	N	660	C	N3-C4-C5	-8.11	118.66	121.90
1	N	332	G	C5-C6-O6	-8.11	123.73	128.60
1	N	894	G	C6-C5-N7	-8.11	125.53	130.40
1	N	1192	C	C6-N1-C2	8.11	123.54	120.30
1	N	1473	G	O4'-C1'-N9	8.11	114.69	108.20
1	N	49	U	P-O3'-C3'	-8.11	109.97	119.70
1	N	1244	G	C8-N9-C4	-8.11	103.16	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1333	A	C3'-C2'-C1'	8.11	107.98	101.50
1	N	392	C	N3-C4-N4	8.10	123.67	118.00
1	N	962	C	N3-C4-C5	-8.10	118.66	121.90
1	N	651	C	N1-C2-O2	8.10	123.76	118.90
1	N	1347	G	O4'-C1'-N9	8.10	114.68	108.20
1	N	963	G	P-O3'-C3'	-8.10	109.98	119.70
1	N	741	G	N1-C6-O6	8.10	124.76	119.90
1	N	1511	G	C8-N9-C4	-8.10	103.16	106.40
1	N	1519	A	O4'-C1'-N9	8.10	114.68	108.20
1	N	1160	G	N3-C4-C5	-8.09	124.55	128.60
1	N	1218	C	N3-C4-N4	8.09	123.66	118.00
1	N	1497	G	C4-N9-C1'	-8.09	115.98	126.50
1	N	572	A	C5-N7-C8	8.09	107.94	103.90
1	N	603	U	N3-C4-C5	-8.09	109.75	114.60
1	N	749	A	C8-N9-C4	-8.09	102.56	105.80
1	N	1492	A	C4-C5-C6	8.09	121.05	117.00
1	N	15	G	C6-C5-N7	-8.09	125.55	130.40
1	N	186	C	N3-C4-N4	8.09	123.66	118.00
1	N	279	A	C5-C6-N1	-8.09	113.66	117.70
1	N	643	C	N1-C2-O2	-8.09	114.05	118.90
1	N	706	A	N1-C2-N3	8.09	133.34	129.30
1	N	1177	G	C5-N7-C8	-8.09	100.26	104.30
1	N	960	U	N3-C4-O4	8.08	125.06	119.40
1	N	1061	G	C6-C5-N7	-8.08	125.55	130.40
1	N	243	A	N1-C6-N6	8.08	123.45	118.60
1	N	307	C	N3-C4-C5	-8.08	118.67	121.90
1	N	646	G	C5'-C4'-C3'	8.08	128.93	116.00
1	N	737	C	N3-C4-N4	8.08	123.66	118.00
1	N	903	G	C5-C6-N1	-8.08	107.46	111.50
1	N	1001	C	O4'-C1'-N1	8.08	114.66	108.20
1	N	1028	C	O4'-C1'-N1	8.08	114.67	108.20
1	N	1222	G	N3-C4-C5	8.08	132.64	128.60
1	N	1413	A	C4-C5-C6	8.08	121.04	117.00
1	N	294	U	N3-C4-O4	8.08	125.06	119.40
1	N	1331	G	N9-C4-C5	8.08	108.63	105.40
1	N	879	C	O4'-C1'-N1	8.07	114.66	108.20
1	N	1005	A	C5-N7-C8	8.07	107.94	103.90
1	N	1185	G	P-O3'-C3'	-8.07	110.01	119.70
1	N	1085	U	C3'-C2'-C1'	8.07	107.96	101.50
1	N	1380	U	P-O3'-C3'	8.07	129.39	119.70
1	N	878	A	N9-C4-C5	8.07	109.03	105.80
1	N	1524	C	C5-C4-N4	-8.07	114.55	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1434	A	O4'-C1'-N9	8.07	114.66	108.20
1	N	786	G	C5-C6-O6	-8.07	123.76	128.60
1	N	130	A	C4'-C3'-C2'	-8.06	94.53	102.60
1	N	857	C	C6-N1-C2	-8.06	117.08	120.30
1	N	1516	G	C2-N3-C4	8.06	115.93	111.90
1	N	288	A	C8-N9-C4	-8.06	102.58	105.80
1	N	356	A	C4-C5-C6	8.06	121.03	117.00
1	N	1260	G	O4'-C4'-C3'	8.06	112.55	106.10
1	N	928	G	N1-C2-N3	-8.06	119.06	123.90
1	N	232	G	N1-C2-N3	-8.06	119.07	123.90
1	N	519	C	C4-C5-C6	8.06	121.43	117.40
1	N	873	A	N7-C8-N9	8.06	117.83	113.80
1	N	1191	A	C8-N9-C4	-8.05	102.58	105.80
1	N	133	U	N3-C2-O2	8.05	127.84	122.20
1	N	856	C	C2-N1-C1'	8.05	127.66	118.80
1	N	441	A	C5'-C4'-O4'	8.05	118.76	109.10
1	N	592	G	C5-C6-O6	-8.05	123.77	128.60
1	N	715	A	C6-C5-N7	-8.04	126.67	132.30
1	N	956	U	N3-C4-C5	-8.05	109.77	114.60
1	N	1082	A	N7-C8-N9	-8.05	109.78	113.80
1	N	1027	C	C5'-C4'-O4'	8.04	118.75	109.10
1	N	1053	G	N1-C2-N3	-8.04	119.08	123.90
1	N	1084	G	N1-C2-N3	-8.04	119.08	123.90
1	N	1163	A	C5-C6-N6	-8.04	117.27	123.70
1	N	688	G	C5-C6-N1	-8.04	107.48	111.50
1	N	1049	U	P-O3'-C3'	8.04	129.35	119.70
1	N	1085	U	P-O3'-C3'	-8.04	110.05	119.70
1	N	79	G	N1-C6-O6	8.04	124.72	119.90
1	N	281	G	N7-C8-N9	-8.04	109.08	113.10
1	N	991	U	O4'-C1'-N1	8.04	114.63	108.20
1	N	1246	A	C5-C6-N1	-8.04	113.68	117.70
1	N	1221	G	C8-N9-C4	8.04	109.61	106.40
1	N	1269	A	O4'-C4'-C3'	-8.04	95.96	104.00
1	N	1525	G	O4'-C1'-N9	8.03	114.63	108.20
1	N	248	C	C5-C6-N1	8.03	125.02	121.00
1	N	922	G	C5-C6-O6	-8.03	123.78	128.60
1	N	1375	A	N7-C8-N9	8.03	117.82	113.80
1	N	1500	A	O4'-C1'-C2'	-8.03	97.77	105.80
1	N	76	G	N1-C6-O6	8.03	124.72	119.90
1	N	859	G	C4-C5-N7	8.03	114.01	110.80
1	N	339	C	C6-N1-C2	-8.03	117.09	120.30
1	N	887	G	N1-C6-O6	8.03	124.72	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1020	G	C5-C6-O6	-8.03	123.78	128.60
1	N	1314	C	O4'-C1'-N1	8.03	114.62	108.20
1	N	1334	G	C5-C6-O6	-8.03	123.78	128.60
1	N	336	A	N9-C4-C5	8.02	109.01	105.80
1	N	887	G	C2-N3-C4	8.02	115.91	111.90
1	N	1269	A	C5-C6-N6	-8.02	117.28	123.70
1	N	322	C	O4'-C1'-N1	8.02	114.62	108.20
1	N	540	G	N1-C6-O6	8.02	124.71	119.90
1	N	666	G	N1-C2-N3	-8.02	119.09	123.90
1	N	1517	G	N1-C2-N3	-8.02	119.09	123.90
1	N	1473	G	N3-C2-N2	-8.02	114.28	119.90
1	N	534	U	O4'-C1'-N1	8.02	114.62	108.20
1	N	999	C	O4'-C1'-N1	8.02	114.61	108.20
1	N	1064	G	C5-C6-N1	-8.02	107.49	111.50
1	N	9	G	N1-C6-O6	8.02	124.71	119.90
1	N	166	U	N1-C2-O2	-8.02	117.19	122.80
1	N	386	C	O4'-C1'-N1	8.02	114.61	108.20
1	N	1211	U	O4'-C1'-N1	8.02	114.61	108.20
1	N	6	G	C4-C5-N7	-8.01	107.59	110.80
1	N	1106	G	C5-C6-O6	-8.01	123.79	128.60
1	N	1207	G	N1-C2-N3	-8.01	119.09	123.90
1	N	389	A	O4'-C1'-N9	8.01	114.61	108.20
1	N	622	A	C2-N3-C4	8.01	114.61	110.60
1	N	784	A	N1-C6-N6	8.01	123.41	118.60
1	N	850	U	O4'-C1'-N1	8.01	114.61	108.20
1	N	1473	G	N1-C2-N2	8.01	123.41	116.20
1	N	49	U	N3-C4-O4	8.01	125.00	119.40
1	N	93	U	N3-C4-C5	-8.01	109.80	114.60
1	N	219	U	O4'-C1'-N1	8.01	114.60	108.20
1	N	769	G	C8-N9-C4	-8.00	103.20	106.40
1	N	639	G	N1-C2-N3	-8.00	119.10	123.90
1	N	1216	A	N7-C8-N9	-8.00	109.80	113.80
1	N	1318	A	C8-N9-C4	-8.00	102.60	105.80
1	N	951	G	C6-C5-N7	-8.00	125.60	130.40
1	N	292	G	N3-C2-N2	8.00	125.50	119.90
1	N	48	C	C5-C6-N1	-7.99	117.00	121.00
1	N	667	G	C2-N3-C4	7.99	115.90	111.90
1	N	1519	A	N1-C2-N3	-7.99	125.30	129.30
1	N	639	G	N7-C8-N9	7.99	117.10	113.10
1	N	719	C	N3-C4-C5	-7.99	118.70	121.90
1	N	1058	G	O4'-C1'-N9	7.99	114.59	108.20
1	N	1196	A	C5-N7-C8	7.99	107.89	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	839	C	O4'-C1'-N1	7.99	114.59	108.20
1	N	1110	A	C5-C6-N1	-7.99	113.71	117.70
1	N	1114	C	O4'-C1'-N1	7.99	114.59	108.20
1	N	684	U	N3-C2-O2	7.99	127.79	122.20
1	N	1064	G	O4'-C1'-N9	7.98	114.59	108.20
1	N	634	C	P-O3'-C3'	7.98	129.28	119.70
1	N	943	U	O4'-C1'-N1	7.98	114.59	108.20
1	N	657	U	C5-C6-N1	7.98	126.69	122.70
1	N	1253	G	C5-C6-N1	-7.98	107.51	111.50
1	N	1339	A	N7-C8-N9	-7.98	109.81	113.80
1	N	1041	G	C6-N1-C2	7.98	129.89	125.10
1	N	413	G	C5-C6-O6	-7.98	123.81	128.60
1	N	531	U	C5'-C4'-C3'	7.98	128.76	116.00
1	N	788	U	O4'-C1'-N1	7.98	114.58	108.20
1	N	897	C	N3-C4-C5	-7.98	118.71	121.90
1	N	1060	U	N3-C4-C5	-7.98	109.81	114.60
1	N	182	A	C5'-C4'-C3'	-7.98	103.24	116.00
1	N	803	G	C2-N3-C4	-7.98	107.91	111.90
1	N	1164	G	C5-C6-O6	-7.97	123.81	128.60
1	N	1432	G	C2'-C3'-O3'	7.97	127.04	109.50
1	N	617	G	O4'-C1'-N9	7.97	114.58	108.20
1	N	1105	A	O4'-C1'-N9	7.97	114.58	108.20
1	N	1403	C	C6-N1-C2	-7.97	117.11	120.30
1	N	1014	A	C4-C5-C6	7.96	120.98	117.00
1	N	1080	A	C5-N7-C8	7.96	107.88	103.90
1	N	1184	G	C5-C6-O6	-7.96	123.82	128.60
1	N	1216	A	O4'-C1'-N9	7.96	114.57	108.20
1	N	479	U	O4'-C1'-N1	7.96	114.57	108.20
1	N	632	U	P-O5'-C5'	7.96	133.64	120.90
1	N	86	G	C2-N3-C4	-7.96	107.92	111.90
1	N	448	A	N1-C2-N3	-7.96	125.32	129.30
1	N	250	A	C5-C6-N6	-7.96	117.33	123.70
1	N	303	A	P-O3'-C3'	-7.96	110.15	119.70
1	N	462	G	C5-C6-O6	-7.96	123.83	128.60
1	N	1016	A	C6-N1-C2	7.96	123.37	118.60
1	N	1206	G	C6-C5-N7	-7.96	125.63	130.40
1	N	1269	A	N1-C6-N6	7.96	123.37	118.60
1	N	16	A	O4'-C1'-N9	7.96	114.56	108.20
1	N	414	A	C4-C5-C6	7.95	120.98	117.00
1	N	844	G	P-O3'-C3'	7.95	129.25	119.70
1	N	1253	G	C4-C5-C6	7.95	123.57	118.80
1	N	393	A	O4'-C1'-N9	7.95	114.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	737	C	N3-C4-C5	-7.95	118.72	121.90
1	N	1118	U	C5'-C4'-O4'	-7.95	99.56	109.10
1	N	1160	G	N3-C2-N2	7.95	125.47	119.90
1	N	1357	A	C5-N7-C8	-7.95	99.92	103.90
1	N	179	A	C6-C5-N7	-7.95	126.74	132.30
1	N	230	G	C5-C6-O6	-7.95	123.83	128.60
1	N	1363	A	C4-C5-C6	7.95	120.97	117.00
1	N	461	A	N3-C4-N9	7.95	133.76	127.40
1	N	727	G	N9-C4-C5	7.95	108.58	105.40
1	N	560	A	P-O3'-C3'	7.95	129.24	119.70
1	N	642	A	C4-C5-C6	7.94	120.97	117.00
1	N	145	G	C4-C5-N7	-7.94	107.62	110.80
1	N	423	G	N1-C6-O6	7.94	124.67	119.90
1	N	956	U	C2-N3-C4	7.94	131.76	127.00
1	N	1488	G	C5'-C4'-C3'	-7.94	103.29	116.00
1	N	184	G	N3-C2-N2	7.94	125.46	119.90
1	N	780	A	C2-N3-C4	-7.94	106.63	110.60
1	N	1341	U	N3-C4-C5	-7.94	109.84	114.60
1	N	1365	G	O5'-P-OP2	-7.94	98.56	105.70
1	N	640	A	C8-N9-C4	-7.93	102.63	105.80
1	N	743	A	N1-C2-N3	7.93	133.27	129.30
1	N	780	A	C4-C5-C6	7.93	120.97	117.00
1	N	1091	U	C5-C6-N1	-7.93	118.73	122.70
1	N	1115	U	P-O3'-C3'	-7.93	110.18	119.70
1	N	944	G	N1-C2-N3	-7.93	119.14	123.90
1	N	527	G	C6-C5-N7	-7.93	125.64	130.40
1	N	678	U	O4'-C1'-N1	7.93	114.54	108.20
1	N	783	C	N3-C2-O2	7.93	127.45	121.90
1	N	1408	A	C5-C6-N6	-7.93	117.36	123.70
1	N	142	G	O4'-C1'-N9	7.93	114.54	108.20
1	N	1264	U	C5-C6-N1	7.93	126.66	122.70
1	N	327	A	C5-C6-N6	-7.92	117.36	123.70
1	N	520	A	C5-C6-N1	-7.92	113.74	117.70
1	N	811	C	C5'-C4'-O4'	7.92	118.61	109.10
1	N	1068	G	C5'-C4'-C3'	-7.92	103.32	116.00
1	N	225	C	C5-C4-N4	-7.92	114.66	120.20
1	N	871	U	C6-N1-C2	-7.92	116.25	121.00
1	N	1120	C	O4'-C1'-N1	7.92	114.54	108.20
1	N	1293	C	N3-C4-C5	-7.92	118.73	121.90
1	N	1290	G	C4-C5-N7	7.92	113.97	110.80
1	N	73	C	N3-C4-C5	-7.92	118.73	121.90
1	N	171	A	P-O3'-C3'	-7.92	110.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	204	G	C6-N1-C2	7.92	129.85	125.10
1	N	954	G	C2-N3-C4	-7.92	107.94	111.90
1	N	547	A	C1'-O4'-C4'	-7.92	103.57	109.90
1	N	475	C	N3-C4-N4	7.91	123.54	118.00
1	N	581	G	C5-C6-O6	-7.91	123.85	128.60
1	N	930	C	O4'-C1'-N1	7.91	114.53	108.20
1	N	354	G	O4'-C1'-N9	7.91	114.53	108.20
1	N	866	C	C5-C6-N1	7.91	124.95	121.00
1	N	1019	A	C4-C5-C6	7.91	120.95	117.00
1	N	1187	G	N1-C6-O6	7.91	124.64	119.90
1	N	1398	A	C5-C6-N1	-7.91	113.75	117.70
1	N	240	G	C4-C5-N7	-7.91	107.64	110.80
1	N	887	G	C5-C6-O6	-7.91	123.86	128.60
1	N	1176	A	C5-C6-N6	-7.91	117.38	123.70
1	N	944	G	N9-C4-C5	7.90	108.56	105.40
1	N	1041	G	O4'-C1'-N9	7.90	114.52	108.20
1	N	1133	G	N9-C4-C5	7.90	108.56	105.40
1	N	1302	C	N1-C2-O2	-7.90	114.16	118.90
1	N	935	A	O4'-C1'-N9	7.90	114.52	108.20
1	N	1454	G	C5-C6-N1	-7.90	107.55	111.50
1	N	567	G	C4-C5-N7	7.90	113.96	110.80
1	N	1387	G	N3-C4-N9	7.90	130.74	126.00
1	N	700	G	N1-C6-O6	7.89	124.64	119.90
1	N	974	A	N9-C4-C5	7.89	108.96	105.80
1	N	257	G	O4'-C1'-N9	7.89	114.51	108.20
1	N	416	G	N1-C6-O6	7.89	124.64	119.90
1	N	901	A	C4-C5-N7	-7.89	106.75	110.70
1	N	1514	G	N7-C8-N9	7.89	117.05	113.10
1	N	599	C	P-O3'-C3'	-7.89	110.23	119.70
1	N	938	A	N3-C4-C5	-7.89	121.28	126.80
1	N	1028	C	N3-C4-C5	-7.89	118.75	121.90
1	N	397	A	C4-C5-N7	-7.89	106.76	110.70
1	N	1083	U	O4'-C1'-N1	7.89	114.51	108.20
1	N	371	A	C5-C6-N1	-7.88	113.76	117.70
1	N	673	A	N9-C4-C5	-7.88	102.65	105.80
1	N	673	A	C5-C6-N6	-7.88	117.40	123.70
1	N	1381	U	O4'-C1'-N1	7.88	114.50	108.20
1	N	564	C	C6-N1-C2	-7.88	117.15	120.30
1	N	574	A	N7-C8-N9	-7.88	109.86	113.80
1	N	1138	G	C8-N9-C4	-7.88	103.25	106.40
1	N	1501	C	C6-N1-C1'	7.88	130.25	120.80
1	N	55	A	C6-N1-C2	-7.88	113.88	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	118	U	N3-C4-O4	7.88	124.91	119.40
1	N	335	C	N1-C2-O2	-7.88	114.17	118.90
1	N	1422	G	O4'-C1'-N9	7.88	114.50	108.20
1	N	401	C	C5-C4-N4	-7.87	114.69	120.20
1	N	681	A	N7-C8-N9	-7.87	109.86	113.80
1	N	1197	A	C4-C5-C6	7.87	120.94	117.00
1	N	1250	A	C5-C6-N1	-7.87	113.76	117.70
1	N	1526	G	C6-C5-N7	-7.87	125.68	130.40
1	N	25	C	N1-C2-N3	-7.87	113.69	119.20
1	N	559	A	C4'-C3'-C2'	7.87	110.47	102.60
1	N	1167	A	N3-C4-N9	7.87	133.70	127.40
1	N	1439	G	O4'-C1'-N9	7.87	114.50	108.20
1	N	155	A	O4'-C1'-N9	7.87	114.50	108.20
1	N	497	G	N9-C4-C5	-7.87	102.25	105.40
1	N	852	G	C4-C5-N7	7.87	113.95	110.80
1	N	564	C	N3-C4-N4	7.87	123.51	118.00
1	N	449	G	P-O3'-C3'	-7.86	110.26	119.70
1	N	689	C	C6-N1-C2	-7.86	117.16	120.30
1	N	236	A	N7-C8-N9	-7.86	109.87	113.80
1	N	336	A	C4-C5-N7	-7.86	106.77	110.70
1	N	257	G	N1-C2-N3	-7.86	119.19	123.90
1	N	269	C	C5-C6-N1	7.86	124.93	121.00
1	N	447	G	C5-C6-N1	-7.86	107.57	111.50
1	N	504	C	C6-N1-C2	-7.86	117.16	120.30
1	N	1408	A	C4-C5-C6	7.86	120.93	117.00
1	N	963	G	N7-C8-N9	7.86	117.03	113.10
1	N	1174	G	C5-C6-O6	-7.86	123.89	128.60
1	N	122	G	C5-C6-N1	-7.85	107.57	111.50
1	N	1144	G	C4-C5-C6	7.85	123.51	118.80
1	N	504	C	P-O3'-C3'	-7.85	110.28	119.70
1	N	864	A	O4'-C1'-N9	7.85	114.48	108.20
1	N	1144	G	C5-C6-N1	-7.85	107.58	111.50
1	N	407	U	P-O5'-C5'	7.85	133.46	120.90
1	N	425	G	N9-C4-C5	7.85	108.54	105.40
1	N	644	U	N3-C2-O2	7.85	127.69	122.20
1	N	1337	G	C5'-C4'-O4'	-7.85	99.68	109.10
1	N	513	C	O4'-C1'-N1	7.85	114.48	108.20
1	N	1499	A	C2-N3-C4	7.85	114.52	110.60
1	N	85	U	N3-C4-O4	7.84	124.89	119.40
1	N	420	U	O4'-C1'-N1	7.84	114.48	108.20
1	N	524	G	N7-C8-N9	7.84	117.02	113.10
1	N	1154	G	C6-C5-N7	-7.84	125.69	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1019	A	N1-C6-N6	7.84	123.31	118.60
1	N	1214	C	O4'-C1'-N1	7.84	114.47	108.20
1	N	826	C	O4'-C1'-N1	7.84	114.47	108.20
1	N	750	C	N3-C4-C5	-7.84	118.77	121.90
1	N	250	A	P-O5'-C5'	7.84	133.44	120.90
1	N	798	U	O4'-C1'-N1	7.84	114.47	108.20
1	N	512	U	O4'-C1'-N1	7.83	114.47	108.20
1	N	331	G	N1-C6-O6	7.83	124.60	119.90
1	N	489	C	N3-C4-C5	-7.83	118.77	121.90
1	N	859	G	C6-C5-N7	-7.83	125.70	130.40
1	N	878	A	C6-N1-C2	-7.83	113.90	118.60
1	N	672	U	C2-N3-C4	-7.83	122.30	127.00
1	N	600	A	N1-C6-N6	7.83	123.30	118.60
1	N	778	G	N1-C6-O6	7.83	124.60	119.90
1	N	1423	G	C4-C5-C6	-7.83	114.10	118.80
1	N	567	G	C4'-C3'-C2'	-7.83	94.77	102.60
1	N	613	C	C2-N3-C4	7.83	123.81	119.90
1	N	1231	G	N3-C4-N9	-7.83	121.30	126.00
1	N	256	U	C3'-C2'-C1'	-7.82	95.24	101.50
1	N	14	U	N1-C2-O2	7.82	128.28	122.80
1	N	463	U	P-O3'-C3'	7.82	129.08	119.70
1	N	1030	U	N3-C4-C5	-7.82	109.91	114.60
1	N	1224	U	C2-N1-C1'	7.82	127.08	117.70
1	N	1263	C	N3-C4-N4	7.82	123.47	118.00
1	N	240	G	O4'-C1'-N9	7.81	114.45	108.20
1	N	1053	G	N9-C4-C5	-7.81	102.28	105.40
1	N	1397	C	C2-N3-C4	7.81	123.81	119.90
1	N	364	A	C5-N7-C8	7.81	107.81	103.90
1	N	255	G	O4'-C1'-N9	7.81	114.45	108.20
1	N	413	G	N3-C4-C5	-7.81	124.69	128.60
1	N	580	C	O4'-C1'-N1	7.81	114.45	108.20
1	N	1473	G	C5-C6-O6	-7.81	123.91	128.60
1	N	1290	G	C2-N3-C4	7.81	115.80	111.90
1	N	693	G	N7-C8-N9	-7.80	109.20	113.10
1	N	1112	C	C5-C4-N4	-7.80	114.74	120.20
1	N	205	A	C5-N7-C8	7.80	107.80	103.90
1	N	600	A	C8-N9-C4	-7.80	102.68	105.80
1	N	345	C	N3-C2-O2	-7.80	116.44	121.90
1	N	356	A	O4'-C1'-N9	7.80	114.44	108.20
1	N	889	A	N9-C4-C5	7.80	108.92	105.80
1	N	530	G	C8-N9-C4	-7.80	103.28	106.40
1	N	1401	G	P-O5'-C5'	7.80	133.37	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	760	G	C8-N9-C4	-7.79	103.28	106.40
1	N	267	C	C5'-C4'-O4'	-7.79	99.75	109.10
1	N	96	U	P-O5'-C5'	7.79	133.37	120.90
1	N	812	G	C5-C6-N1	-7.79	107.61	111.50
1	N	606	G	C5-C6-O6	-7.79	123.93	128.60
1	N	1120	C	C5-C6-N1	7.79	124.89	121.00
1	N	108	G	C4-N9-C1'	7.79	136.62	126.50
1	N	161	A	C6-C5-N7	-7.79	126.85	132.30
1	N	855	U	C2-N3-C4	7.79	131.67	127.00
1	N	1006	G	N3-C4-N9	-7.79	121.33	126.00
1	N	66	A	O4'-C1'-N9	7.78	114.43	108.20
1	N	675	A	C4-C5-C6	7.78	120.89	117.00
1	N	1077	G	C5-C6-N1	7.78	115.39	111.50
1	N	1129	C	N1-C2-O2	-7.78	114.23	118.90
1	N	1143	G	N3-C2-N2	-7.78	114.45	119.90
1	N	1415	G	N3-C2-N2	7.78	125.35	119.90
1	N	714	G	O4'-C1'-N9	7.78	114.42	108.20
1	N	1510	C	C6-N1-C2	7.78	123.41	120.30
1	N	178	C	O4'-C1'-N1	7.78	114.42	108.20
1	N	318	G	C2-N3-C4	7.78	115.79	111.90
1	N	446	G	N1-C6-O6	7.78	124.57	119.90
1	N	1231	G	N3-C4-C5	7.78	132.49	128.60
1	N	1435	G	C2-N3-C4	-7.78	108.01	111.90
1	N	430	A	C5-C6-N1	-7.78	113.81	117.70
1	N	889	A	C8-N9-C4	-7.78	102.69	105.80
1	N	1075	U	N3-C2-O2	7.78	127.64	122.20
1	N	1338	G	C5-C6-N1	-7.78	107.61	111.50
1	N	185	U	N3-C2-O2	7.77	127.64	122.20
1	N	744	C	N3-C4-C5	-7.77	118.79	121.90
1	N	1333	A	C4'-C3'-C2'	-7.77	94.83	102.60
1	N	1468	A	N7-C8-N9	7.77	117.69	113.80
1	N	144	G	C6-C5-N7	-7.77	125.74	130.40
1	N	783	C	O4'-C1'-N1	7.77	114.42	108.20
1	N	1246	A	C4-C5-C6	7.77	120.89	117.00
1	N	170	U	O4'-C1'-N1	7.77	114.42	108.20
1	N	51	A	N1-C6-N6	7.77	123.26	118.60
1	N	896	C	C3'-C2'-C1'	7.77	107.71	101.50
1	N	942	G	N7-C8-N9	7.77	116.98	113.10
1	N	243	A	C1'-O4'-C4'	7.77	116.11	109.90
1	N	379	C	N3-C4-N4	7.77	123.44	118.00
1	N	59	A	C5-C6-N6	-7.76	117.49	123.70
1	N	448	A	N9-C4-C5	7.76	108.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	66	A	N7-C8-N9	-7.76	109.92	113.80
1	N	510	A	N1-C6-N6	7.76	123.26	118.60
1	N	426	U	C4-C5-C6	7.76	124.36	119.70
1	N	544	G	O4'-C1'-N9	7.76	114.41	108.20
1	N	840	C	C2-N1-C1'	7.76	127.33	118.80
1	N	1267	C	N1-C2-O2	7.76	123.56	118.90
1	N	1306	A	C5-N7-C8	7.76	107.78	103.90
1	N	1350	A	C4-C5-C6	7.76	120.88	117.00
1	N	652	U	N3-C4-C5	-7.76	109.94	114.60
1	N	656	G	N1-C2-N3	-7.76	119.25	123.90
1	N	959	A	P-O3'-C3'	7.76	129.01	119.70
1	N	76	G	N7-C8-N9	7.75	116.98	113.10
1	N	1170	A	C5-N7-C8	7.75	107.78	103.90
1	N	85	U	C6-N1-C2	-7.75	116.35	121.00
1	N	892	A	N1-C6-N6	7.75	123.25	118.60
1	N	966	G	C6-C5-N7	-7.75	125.75	130.40
1	N	1046	A	C5'-C4'-O4'	7.75	118.40	109.10
1	N	1234	C	O4'-C1'-N1	7.75	114.40	108.20
1	N	174	A	C4-C5-C6	7.75	120.87	117.00
1	N	181	A	C6-N1-C2	7.75	123.25	118.60
1	N	1494	G	C5-C6-O6	-7.75	123.95	128.60
1	N	431	A	C5'-C4'-C3'	7.75	128.40	116.00
1	N	602	A	N1-C2-N3	7.75	133.17	129.30
1	N	968	A	O3'-P-O5'	-7.75	89.28	104.00
1	N	1530	G	N1-C6-O6	7.75	124.55	119.90
1	N	566	G	N1-C6-O6	7.74	124.55	119.90
1	N	1074	G	O4'-C1'-N9	7.74	114.39	108.20
1	N	1156	G	O4'-C1'-N9	7.74	114.39	108.20
1	N	254	G	O4'-C1'-N9	7.74	114.39	108.20
1	N	1246	A	N1-C2-N3	7.74	133.17	129.30
1	N	252	U	N3-C4-O4	7.74	124.82	119.40
1	N	373	A	C5-C6-N6	-7.74	117.51	123.70
1	N	822	U	N3-C4-O4	7.74	124.82	119.40
1	N	1308	U	C2-N3-C4	7.74	131.64	127.00
1	N	474	G	N7-C8-N9	-7.74	109.23	113.10
1	N	1086	U	C6-N1-C2	-7.74	116.36	121.00
1	N	1187	G	C8-N9-C4	-7.74	103.31	106.40
1	N	1339	A	C5-N7-C8	7.73	107.77	103.90
1	N	93	U	C2-N3-C4	7.73	131.64	127.00
1	N	206	C	C2-N1-C1'	7.73	127.31	118.80
1	N	373	A	O4'-C1'-N9	7.73	114.39	108.20
1	N	174	A	C2-N3-C4	7.73	114.47	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	945	G	N9-C4-C5	-7.73	102.31	105.40
1	N	629	A	C6-C5-N7	-7.73	126.89	132.30
1	N	223	A	C4-C5-C6	7.73	120.86	117.00
1	N	635	A	C4-C5-C6	7.73	120.86	117.00
1	N	781	A	C5-C6-N1	-7.73	113.84	117.70
1	N	930	C	C6-N1-C2	-7.73	117.21	120.30
1	N	240	G	C6-N1-C2	7.73	129.74	125.10
1	N	443	C	P-O5'-C5'	7.72	133.26	120.90
1	N	1018	G	O4'-C1'-N9	7.72	114.38	108.20
1	N	1131	G	O4'-C1'-N9	7.72	114.38	108.20
1	N	1240	U	N1-C2-N3	-7.72	110.27	114.90
1	N	1355	G	O4'-C1'-N9	7.72	114.38	108.20
1	N	1370	G	N1-C6-O6	7.72	124.53	119.90
1	N	1079	G	N3-C2-N2	7.72	125.31	119.90
1	N	1378	C	C6-N1-C2	-7.72	117.21	120.30
1	N	1040	U	N3-C4-C5	-7.72	109.97	114.60
1	N	1313	U	N3-C4-O4	7.72	124.81	119.40
1	N	1135	U	N3-C4-O4	7.72	124.80	119.40
1	N	1316	G	C6-N1-C2	-7.72	120.47	125.10
1	N	174	A	N1-C2-N3	-7.72	125.44	129.30
1	N	667	G	C5-C6-O6	-7.72	123.97	128.60
1	N	963	G	N1-C6-O6	7.72	124.53	119.90
1	N	1042	A	C5-C6-N6	-7.72	117.53	123.70
1	N	278	G	C6-C5-N7	-7.71	125.77	130.40
1	N	388	G	N1-C6-O6	7.71	124.53	119.90
1	N	497	G	N7-C8-N9	-7.71	109.24	113.10
1	N	693	G	C5-N7-C8	7.71	108.16	104.30
1	N	805	C	C2-N3-C4	7.71	123.76	119.90
1	N	1077	G	N1-C6-O6	7.71	124.53	119.90
1	N	1270	G	O4'-C1'-N9	7.71	114.37	108.20
1	N	696	A	C4-C5-N7	-7.71	106.84	110.70
1	N	781	A	N7-C8-N9	7.71	117.66	113.80
1	N	1060	U	N3-C4-O4	7.71	124.80	119.40
1	N	379	C	C5-C6-N1	7.71	124.85	121.00
1	N	584	G	C4-C5-C6	7.71	123.42	118.80
1	N	914	A	C4-C5-C6	7.71	120.85	117.00
1	N	756	C	O4'-C1'-N1	7.70	114.36	108.20
1	N	103	U	N1-C2-N3	-7.70	110.28	114.90
1	N	666	G	N1-C6-O6	7.70	124.52	119.90
1	N	688	G	C4-C5-C6	7.70	123.42	118.80
1	N	737	C	O4'-C1'-N1	7.70	114.36	108.20
1	N	933	G	C6-C5-N7	-7.70	125.78	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1260	G	N1-C6-O6	7.70	124.52	119.90
1	N	673	A	O4'-C1'-N9	7.70	114.36	108.20
1	N	1350	A	C6-N1-C2	-7.70	113.98	118.60
1	N	1394	A	N7-C8-N9	7.70	117.65	113.80
1	N	674	G	N3-C4-C5	7.70	132.45	128.60
1	N	844	G	N3-C4-C5	-7.70	124.75	128.60
1	N	1331	G	C6-C5-N7	-7.70	125.78	130.40
1	N	1374	A	C2-N3-C4	-7.70	106.75	110.60
1	N	492	C	C2-N3-C4	7.69	123.75	119.90
1	N	43	C	C6-N1-C2	7.69	123.38	120.30
1	N	1285	A	N3-C4-N9	7.69	133.55	127.40
1	N	763	G	C5-C6-O6	-7.69	123.99	128.60
1	N	1505	G	N1-C2-N3	-7.69	119.29	123.90
1	N	232	G	N9-C4-C5	7.69	108.48	105.40
1	N	484	G	C2-N3-C4	-7.69	108.06	111.90
1	N	261	U	C5-C4-O4	-7.69	121.29	125.90
1	N	1246	A	C5-C6-N6	-7.69	117.55	123.70
1	N	1288	A	C2-N3-C4	-7.69	106.76	110.60
1	N	1381	U	C2-N3-C4	-7.69	122.39	127.00
1	N	328	C	N3-C4-N4	7.68	123.38	118.00
1	N	494	G	C5-C6-O6	-7.68	123.99	128.60
1	N	865	A	C6-C5-N7	-7.68	126.92	132.30
1	N	723	U	C5-C4-O4	-7.68	121.29	125.90
1	N	949	A	C5-C6-N1	-7.68	113.86	117.70
1	N	1129	C	C2-N1-C1'	7.68	127.25	118.80
1	N	722	G	N7-C8-N9	-7.68	109.26	113.10
1	N	128	G	O4'-C1'-N9	7.68	114.34	108.20
1	N	524	G	C8-N9-C4	-7.68	103.33	106.40
1	N	595	A	P-O5'-C5'	7.68	133.19	120.90
1	N	926	G	C5'-C4'-C3'	7.68	128.29	116.00
1	N	1304	G	C5-C6-O6	-7.68	123.99	128.60
1	N	1532	U	P-O3'-C3'	7.68	128.92	119.70
1	N	135	C	O4'-C1'-N1	7.68	114.34	108.20
1	N	368	U	P-O3'-C3'	7.68	128.91	119.70
1	N	521	G	O4'-C1'-N9	7.68	114.34	108.20
1	N	807	A	C6-C5-N7	-7.68	126.93	132.30
1	N	207	C	O4'-C4'-C3'	-7.67	96.33	104.00
1	N	1235	U	C5-C6-N1	7.67	126.54	122.70
1	N	275	G	OP1-P-OP2	-7.67	108.09	119.60
1	N	335	C	C6-N1-C2	-7.67	117.23	120.30
1	N	366	A	N7-C8-N9	7.67	117.64	113.80
1	N	70	U	O4'-C1'-N1	7.67	114.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	129	A	O4'-C1'-N9	7.67	114.33	108.20
1	N	1279	G	C5-C6-N1	-7.67	107.67	111.50
1	N	745	G	N3-C4-C5	-7.67	124.77	128.60
1	N	1078	U	C2-N1-C1'	7.67	126.90	117.70
1	N	613	C	N3-C4-C5	-7.67	118.83	121.90
1	N	954	G	C4-C5-C6	7.67	123.40	118.80
1	N	1134	G	N1-C6-O6	7.67	124.50	119.90
1	N	311	C	N1-C2-O2	7.66	123.50	118.90
1	N	658	C	C5-C6-N1	7.66	124.83	121.00
1	N	726	C	C6-N1-C2	-7.66	117.23	120.30
1	N	1046	A	N9-C1'-C2'	-7.66	103.57	112.00
1	N	1191	A	C5-C6-N1	-7.66	113.87	117.70
1	N	1169	A	N7-C8-N9	7.66	117.63	113.80
1	N	974	A	C8-N9-C4	-7.66	102.74	105.80
1	N	1107	C	C6-N1-C2	-7.66	117.23	120.30
1	N	1059	C	C5-C6-N1	7.66	124.83	121.00
1	N	1417	G	C4-N9-C1'	7.66	136.46	126.50
1	N	1188	A	C5-C6-N1	-7.66	113.87	117.70
1	N	1169	A	C6-C5-N7	-7.66	126.94	132.30
1	N	1454	G	O4'-C1'-N9	7.66	114.32	108.20
1	N	9	G	C2-N3-C4	7.65	115.73	111.90
1	N	339	C	P-O5'-C5'	7.65	133.15	120.90
1	N	888	G	N1-C2-N2	-7.65	109.31	116.20
1	N	496	A	O4'-C1'-N9	7.65	114.32	108.20
1	N	843	U	P-O3'-C3'	-7.65	110.52	119.70
1	N	1102	A	N1-C2-N3	7.65	133.12	129.30
1	N	166	U	N1-C2-N3	7.65	119.49	114.90
1	N	1410	A	O4'-C1'-N9	7.65	114.32	108.20
1	N	410	G	C5-N7-C8	7.65	108.12	104.30
1	N	625	U	O4'-C1'-N1	7.65	114.32	108.20
1	N	1104	G	O4'-C1'-N9	7.65	114.32	108.20
1	N	765	G	N7-C8-N9	7.65	116.92	113.10
1	N	588	G	C5-C6-O6	-7.64	124.01	128.60
1	N	725	G	C5-C6-O6	-7.64	124.01	128.60
1	N	865	A	C5-C6-N6	-7.64	117.59	123.70
1	N	228	A	C6-N1-C2	7.64	123.18	118.60
1	N	225	C	O4'-C1'-N1	7.64	114.31	108.20
1	N	276	G	C6-C5-N7	-7.64	125.82	130.40
1	N	510	A	C5-N7-C8	-7.64	100.08	103.90
1	N	897	C	O4'-C1'-N1	7.64	114.31	108.20
1	N	1256	A	O4'-C1'-N9	7.64	114.31	108.20
1	N	1495	U	N1-C2-N3	-7.64	110.32	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	555	U	C5'-C4'-O4'	-7.64	99.93	109.10
1	N	370	C	N3-C4-N4	7.64	123.34	118.00
1	N	574	A	C4-C5-N7	-7.64	106.88	110.70
1	N	974	A	C4-C5-N7	-7.64	106.88	110.70
1	N	1005	A	N1-C2-N3	7.64	133.12	129.30
1	N	1072	G	O4'-C1'-N9	7.64	114.31	108.20
1	N	1365	G	O4'-C1'-N9	7.64	114.31	108.20
1	N	256	U	C4'-C3'-C2'	7.63	110.23	102.60
1	N	906	A	C4-C5-C6	7.63	120.82	117.00
1	N	987	G	O4'-C1'-N9	7.63	114.31	108.20
1	N	1309	G	N7-C8-N9	7.63	116.92	113.10
1	N	95	C	C5-C4-N4	-7.63	114.86	120.20
1	N	836	G	N1-C2-N3	-7.63	119.32	123.90
1	N	1170	A	P-O3'-C3'	7.63	128.86	119.70
1	N	1502	A	O4'-C1'-N9	7.63	114.31	108.20
1	N	519	C	C5-C6-N1	-7.63	117.19	121.00
1	N	571	U	N1-C2-N3	-7.63	110.32	114.90
1	N	1522	U	O4'-C1'-N1	7.63	114.30	108.20
1	N	1177	G	C2-N3-C4	7.63	115.71	111.90
1	N	1331	G	C2-N3-C4	7.63	115.71	111.90
1	N	1515	G	O4'-C1'-N9	7.63	114.30	108.20
1	N	270	A	C6-C5-N7	-7.62	126.96	132.30
1	N	618	C	O4'-C1'-N1	7.62	114.30	108.20
1	N	905	U	C5-C6-N1	7.62	126.51	122.70
1	N	1193	G	N1-C2-N3	-7.62	119.33	123.90
1	N	1193	G	N1-C6-O6	7.62	124.47	119.90
1	N	1417	G	C8-N9-C4	-7.62	103.35	106.40
1	N	292	G	C4-C5-N7	7.62	113.85	110.80
1	N	579	A	C4-C5-C6	7.62	120.81	117.00
1	N	914	A	P-O3'-C3'	-7.62	110.55	119.70
1	N	1418	A	P-O5'-C5'	7.62	133.09	120.90
1	N	1465	A	N9-C4-C5	7.62	108.85	105.80
1	N	787	A	P-O5'-C5'	7.62	133.09	120.90
1	N	1212	U	C5-C6-N1	7.62	126.51	122.70
1	N	100	G	N3-C2-N2	7.62	125.23	119.90
1	N	1368	A	C5-C6-N1	-7.62	113.89	117.70
1	N	620	C	O4'-C1'-N1	7.62	114.29	108.20
1	N	1107	C	O4'-C1'-N1	7.62	114.29	108.20
1	N	558	G	N1-C6-O6	7.61	124.47	119.90
1	N	1129	C	C6-N1-C2	-7.61	117.25	120.30
1	N	1286	U	C5-C4-O4	-7.61	121.33	125.90
1	N	1366	C	OP1-P-OP2	-7.61	108.18	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	55	A	C2'-C3'-O3'	7.61	126.25	109.50
1	N	1188	A	O4'-C1'-N9	7.61	114.29	108.20
1	N	1482	G	C5-C6-O6	-7.61	124.03	128.60
1	N	1245	C	C6-N1-C2	-7.61	117.26	120.30
1	N	1525	G	N3-C4-N9	-7.61	121.43	126.00
1	N	319	G	C5'-C4'-O4'	7.61	118.23	109.10
1	N	98	A	C1'-O4'-C4'	7.61	115.98	109.90
1	N	495	A	C5-C6-N1	-7.61	113.90	117.70
1	N	1114	C	C6-N1-C2	-7.61	117.26	120.30
1	N	1170	A	C8-N9-C4	-7.61	102.76	105.80
1	N	1303	C	P-O5'-C5'	7.61	133.07	120.90
1	N	166	U	C6-N1-C2	-7.60	116.44	121.00
1	N	440	C	N3-C4-N4	7.60	123.32	118.00
1	N	1046	A	C5-C6-N1	-7.60	113.90	117.70
1	N	509	A	N9-C4-C5	7.60	108.84	105.80
1	N	655	A	C5-N7-C8	7.60	107.70	103.90
1	N	1108	G	N3-C4-C5	-7.60	124.80	128.60
1	N	578	C	C5'-C4'-C3'	7.60	128.16	116.00
1	N	1011	C	C5-C4-N4	-7.60	114.88	120.20
1	N	1079	G	C4-C5-N7	-7.60	107.76	110.80
1	N	535	A	C5-C6-N6	-7.60	117.62	123.70
1	N	941	G	N1-C6-O6	7.60	124.46	119.90
1	N	966	G	N3-C2-N2	7.60	125.22	119.90
1	N	1039	G	N3-C4-C5	-7.60	124.80	128.60
1	N	1469	C	C2-N3-C4	7.60	123.70	119.90
1	N	90	C	C5-C4-N4	-7.60	114.88	120.20
1	N	940	C	C5-C4-N4	-7.60	114.88	120.20
1	N	1010	U	N3-C4-O4	7.60	124.72	119.40
1	N	774	G	C6-C5-N7	-7.59	125.84	130.40
1	N	964	A	C5-C6-N1	-7.59	113.90	117.70
1	N	1377	A	C5-C6-N6	-7.59	117.62	123.70
1	N	1437	A	N1-C2-N3	7.59	133.10	129.30
1	N	1215	G	N1-C6-O6	7.59	124.46	119.90
1	N	25	C	N3-C4-C5	-7.59	118.86	121.90
1	N	182	A	N9-C4-C5	7.59	108.84	105.80
1	N	33	A	C3'-C2'-C1'	-7.59	95.43	101.50
1	N	1217	C	N3-C4-C5	-7.59	118.86	121.90
1	N	1313	U	N3-C2-O2	7.59	127.51	122.20
1	N	829	G	C1'-O4'-C4'	7.59	115.97	109.90
1	N	48	C	N3-C4-C5	-7.59	118.87	121.90
1	N	498	A	N1-C2-N3	7.59	133.09	129.30
1	N	1505	G	C8-N9-C4	7.59	109.44	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	998	C	C5-C6-N1	7.58	124.79	121.00
1	N	93	U	C5-C4-O4	-7.58	121.35	125.90
1	N	607	A	C4-C5-C6	7.58	120.79	117.00
1	N	613	C	O4'-C1'-N1	7.58	114.27	108.20
1	N	855	U	N1-C2-N3	-7.58	110.35	114.90
1	N	1154	G	N9-C4-C5	-7.58	102.37	105.40
1	N	1203	C	C6-N1-C2	-7.58	117.27	120.30
1	N	419	C	N1-C2-O2	-7.58	114.35	118.90
1	N	448	A	C5-C6-N6	-7.58	117.63	123.70
1	N	839	C	C3'-C2'-C1'	7.58	107.56	101.50
1	N	1220	G	N1-C6-O6	7.58	124.45	119.90
1	N	323	U	N3-C4-O4	7.58	124.70	119.40
1	N	753	A	C6-N1-C2	7.58	123.15	118.60
1	N	781	A	C4-C5-C6	7.58	120.79	117.00
1	N	786	G	N1-C6-O6	7.58	124.45	119.90
1	N	1084	G	N3-C2-N2	7.58	125.20	119.90
1	N	1171	A	C5-N7-C8	7.58	107.69	103.90
1	N	375	U	C6-N1-C2	-7.57	116.46	121.00
1	N	1201	A	N3-C4-C5	-7.57	121.50	126.80
1	N	233	C	N3-C4-C5	-7.57	118.87	121.90
1	N	1353	G	C1'-O4'-C4'	7.57	115.96	109.90
1	N	360	G	C5-C6-O6	-7.57	124.06	128.60
1	N	33	A	C2-N3-C4	-7.57	106.82	110.60
1	N	608	A	P-O3'-C3'	-7.57	110.62	119.70
1	N	663	A	C5-N7-C8	7.57	107.68	103.90
1	N	1295	U	C6-N1-C2	-7.57	116.46	121.00
1	N	295	C	O4'-C1'-N1	7.56	114.25	108.20
1	N	473	U	C5-C4-O4	-7.56	121.36	125.90
1	N	879	C	C1'-O4'-C4'	-7.56	103.85	109.90
1	N	894	G	P-O5'-C5'	7.56	133.00	120.90
1	N	66	A	C4-C5-C6	7.56	120.78	117.00
1	N	104	G	O4'-C1'-N9	7.56	114.25	108.20
1	N	952	U	N3-C2-O2	7.56	127.49	122.20
1	N	342	C	C2-N3-C4	7.56	123.68	119.90
1	N	617	G	OP1-P-OP2	-7.56	108.26	119.60
1	N	302	G	O4'-C1'-N9	7.55	114.24	108.20
1	N	546	A	C4-C5-N7	-7.55	106.92	110.70
1	N	27	G	C6-C5-N7	-7.55	125.87	130.40
1	N	927	G	N3-C2-N2	7.55	125.19	119.90
1	N	1011	C	O4'-C1'-N1	7.55	114.24	108.20
1	N	344	A	C5-C6-N6	-7.55	117.66	123.70
1	N	538	G	P-O5'-C5'	7.55	132.98	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	615	G	C8-N9-C4	-7.55	103.38	106.40
1	N	922	G	O4'-C1'-N9	7.55	114.24	108.20
1	N	1474	U	N1-C2-N3	-7.55	110.37	114.90
1	N	1151	A	P-O5'-C5'	7.55	132.98	120.90
1	N	850	U	P-O5'-C5'	7.55	132.98	120.90
1	N	988	G	N7-C8-N9	-7.54	109.33	113.10
1	N	1447	A	O4'-C1'-C2'	7.54	114.39	107.60
1	N	53	A	C4-C5-N7	-7.54	106.93	110.70
1	N	326	G	N7-C8-N9	7.54	116.87	113.10
1	N	1294	G	O4'-C1'-N9	7.54	114.23	108.20
1	N	625	U	C4-C5-C6	-7.54	115.17	119.70
1	N	777	A	N9-C4-C5	-7.54	102.78	105.80
1	N	343	U	O4'-C1'-N1	7.54	114.23	108.20
1	N	535	A	C5'-C4'-O4'	7.54	118.15	109.10
1	N	140	U	O4'-C1'-N1	7.54	114.23	108.20
1	N	76	G	N1-C2-N3	-7.54	119.38	123.90
1	N	447	G	N1-C6-O6	7.53	124.42	119.90
1	N	561	U	P-O3'-C3'	7.53	128.74	119.70
1	N	783	C	N3-C4-N4	7.53	123.27	118.00
1	N	872	A	C4-C5-C6	7.53	120.77	117.00
1	N	1186	G	N1-C2-N3	-7.53	119.38	123.90
1	N	1238	A	C8-N9-C4	-7.53	102.79	105.80
1	N	323	U	N3-C2-O2	7.53	127.47	122.20
1	N	33	A	C5-N7-C8	7.53	107.67	103.90
1	N	160	A	C4-C5-C6	7.53	120.77	117.00
1	N	1043	G	C5-C6-O6	-7.53	124.08	128.60
1	N	1235	U	C4'-C3'-C2'	-7.53	95.07	102.60
1	N	1299	A	C5-N7-C8	7.53	107.67	103.90
1	N	396	C	C5-C6-N1	7.53	124.76	121.00
1	N	123	U	N3-C4-O4	7.53	124.67	119.40
1	N	557	G	N3-C4-C5	-7.53	124.84	128.60
1	N	96	U	O4'-C1'-N1	7.52	114.22	108.20
1	N	195	A	O4'-C1'-N9	7.52	114.22	108.20
1	N	596	A	C5-C6-N1	-7.52	113.94	117.70
1	N	131	A	C8-N9-C4	-7.52	102.79	105.80
1	N	188	C	N3-C4-N4	7.52	123.27	118.00
1	N	570	G	N9-C4-C5	-7.52	102.39	105.40
1	N	638	U	N1-C2-O2	-7.52	117.53	122.80
1	N	878	A	P-O5'-C5'	7.52	132.94	120.90
1	N	1355	G	C8-N9-C4	-7.52	103.39	106.40
1	N	440	C	O4'-C1'-N1	7.52	114.22	108.20
1	N	418	C	N3-C4-N4	7.52	123.26	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	450	G	C6-N1-C2	7.52	129.61	125.10
1	N	1392	G	N9-C4-C5	-7.52	102.39	105.40
1	N	427	U	O4'-C1'-N1	7.52	114.21	108.20
1	N	730	G	C6-C5-N7	-7.52	125.89	130.40
1	N	1066	C	C6-N1-C2	7.52	123.31	120.30
1	N	308	C	C2-N3-C4	7.52	123.66	119.90
1	N	718	A	C5-C6-N6	-7.52	117.69	123.70
1	N	1366	C	N3-C4-N4	7.52	123.26	118.00
1	N	51	A	C5-C6-N6	-7.51	117.69	123.70
1	N	951	G	N1-C2-N3	-7.51	119.39	123.90
1	N	904	U	C6-N1-C2	-7.51	116.49	121.00
1	N	265	G	N7-C8-N9	-7.51	109.34	113.10
1	N	492	C	C5-C6-N1	7.51	124.75	121.00
1	N	622	A	N1-C6-N6	7.51	123.11	118.60
1	N	1031	C	C6-N1-C2	7.51	123.30	120.30
1	N	220	G	C8-N9-C1'	-7.51	117.24	127.00
1	N	553	A	N1-C6-N6	7.51	123.10	118.60
1	N	81	A	C8-N9-C4	-7.50	102.80	105.80
1	N	369	G	O4'-C4'-C3'	-7.50	96.50	104.00
1	N	770	C	C3'-C2'-C1'	7.50	107.50	101.50
1	N	263	A	N1-C6-N6	7.50	123.10	118.60
1	N	621	A	C4-C5-C6	7.50	120.75	117.00
1	N	726	C	O4'-C1'-N1	7.50	114.20	108.20
1	N	1313	U	C2-N3-C4	7.50	131.50	127.00
1	N	27	G	C4-C5-N7	7.50	113.80	110.80
1	N	948	C	C2-N3-C4	7.50	123.65	119.90
1	N	367	U	N3-C2-O2	7.50	127.45	122.20
1	N	172	A	C5-C6-N1	-7.50	113.95	117.70
1	N	304	U	O4'-C1'-N1	7.50	114.20	108.20
1	N	936	C	C3'-C2'-C1'	7.50	107.50	101.50
1	N	1268	G	P-O3'-C3'	7.50	128.70	119.70
1	N	729	A	C8-N9-C4	-7.50	102.80	105.80
1	N	386	C	C6-N1-C1'	-7.49	111.81	120.80
1	N	1068	G	C8-N9-C1'	-7.49	117.26	127.00
1	N	293	G	C6-C5-N7	-7.49	125.91	130.40
1	N	486	U	O4'-C1'-N1	7.49	114.19	108.20
1	N	719	C	C4-C5-C6	7.49	121.14	117.40
1	N	1042	A	C4-C5-C6	7.49	120.75	117.00
1	N	1148	U	C5'-C4'-C3'	7.49	127.98	116.00
1	N	1010	U	O4'-C1'-N1	7.49	114.19	108.20
1	N	4	U	C3'-C2'-C1'	7.49	107.49	101.50
1	N	681	A	O4'-C1'-N9	7.49	114.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	939	G	N1-C2-N3	-7.49	119.41	123.90
1	N	1202	U	C4-C5-C6	-7.49	115.21	119.70
1	N	460	A	C5'-C4'-O4'	-7.48	100.12	109.10
1	N	324	G	C6-N1-C2	7.48	129.59	125.10
1	N	1467	C	N3-C2-O2	-7.48	116.66	121.90
1	N	1526	G	C4-C5-N7	7.48	113.79	110.80
1	N	273	U	C1'-O4'-C4'	7.48	115.88	109.90
1	N	273	U	C5-C6-N1	7.48	126.44	122.70
1	N	485	U	C6-N1-C2	7.48	125.49	121.00
1	N	661	G	C6-C5-N7	-7.48	125.91	130.40
1	N	1222	G	N3-C4-N9	-7.48	121.51	126.00
1	N	435	A	C8-N9-C4	-7.48	102.81	105.80
1	N	1385	G	O4'-C1'-N9	7.48	114.18	108.20
1	N	123	U	C6-N1-C2	-7.48	116.51	121.00
1	N	1275	A	C5-N7-C8	7.48	107.64	103.90
1	N	35	G	C5-N7-C8	-7.48	100.56	104.30
1	N	377	G	N1-C2-N3	-7.47	119.42	123.90
1	N	784	A	N9-C4-C5	-7.47	102.81	105.80
1	N	1167	A	C5-N7-C8	7.47	107.64	103.90
1	N	372	C	N3-C4-C5	-7.47	118.91	121.90
1	N	778	G	C5-C6-O6	-7.47	124.12	128.60
1	N	1212	U	P-O3'-C3'	-7.47	110.73	119.70
1	N	584	G	C4-C5-N7	-7.47	107.81	110.80
1	N	788	U	N3-C4-C5	-7.47	110.12	114.60
1	N	633	G	C4-C5-N7	-7.47	107.81	110.80
1	N	773	G	O4'-C1'-N9	7.47	114.17	108.20
1	N	1422	G	C5-C6-N1	-7.47	107.77	111.50
1	N	251	G	C4-C5-C6	7.46	123.28	118.80
1	N	675	A	C5-C6-N6	-7.46	117.73	123.70
1	N	775	G	N3-C4-C5	-7.46	124.87	128.60
1	N	1047	G	C6-C5-N7	-7.46	125.92	130.40
1	N	1459	G	C5-C6-O6	-7.46	124.12	128.60
1	N	493	A	O4'-C1'-N9	7.46	114.17	108.20
1	N	344	A	P-O3'-C3'	7.46	128.65	119.70
1	N	482	A	C8-N9-C4	-7.46	102.82	105.80
1	N	853	C	C2-N3-C4	7.46	123.63	119.90
1	N	515	G	N3-C2-N2	7.46	125.12	119.90
1	N	579	A	C4-C5-N7	-7.46	106.97	110.70
1	N	1016	A	O4'-C1'-N9	7.46	114.17	108.20
1	N	1170	A	C5'-C4'-C3'	7.46	127.94	116.00
1	N	103	U	N3-C4-O4	7.46	124.62	119.40
1	N	727	G	P-O3'-C3'	7.46	128.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1267	C	N3-C4-N4	7.46	123.22	118.00
1	N	1276	G	C4-C5-C6	7.46	123.27	118.80
1	N	1484	C	C2-N1-C1'	7.46	127.00	118.80
1	N	1522	U	P-O3'-C3'	-7.46	110.75	119.70
1	N	389	A	C4-C5-C6	7.46	120.73	117.00
1	N	660	C	C4-C5-C6	7.46	121.13	117.40
1	N	987	G	C5-C6-N1	-7.46	107.77	111.50
1	N	54	C	C2-N1-C1'	7.45	127.00	118.80
1	N	685	G	N1-C6-O6	7.45	124.37	119.90
1	N	295	C	N3-C4-C5	-7.45	118.92	121.90
1	N	478	A	N9-C4-C5	7.45	108.78	105.80
1	N	401	C	O4'-C1'-N1	7.45	114.16	108.20
1	N	986	U	C4-C5-C6	7.45	124.17	119.70
1	N	497	G	C8-N9-C4	7.45	109.38	106.40
1	N	918	A	C5-C6-N6	-7.45	117.74	123.70
1	N	133	U	O4'-C1'-N1	7.44	114.16	108.20
1	N	1019	A	O4'-C1'-N9	7.44	114.16	108.20
1	N	644	U	N1-C2-N3	-7.44	110.44	114.90
1	N	883	C	C2-N3-C4	7.44	123.62	119.90
1	N	1114	C	N3-C4-C5	-7.44	118.92	121.90
1	N	1392	G	C4-C5-N7	7.44	113.78	110.80
1	N	1438	G	N1-C2-N3	-7.44	119.44	123.90
1	N	429	U	C5-C6-N1	-7.44	118.98	122.70
1	N	580	C	P-O3'-C3'	7.44	128.63	119.70
1	N	1242	G	N1-C2-N3	-7.44	119.44	123.90
1	N	1479	C	C6-N1-C2	-7.44	117.33	120.30
1	N	22	G	C8-N9-C4	7.44	109.37	106.40
1	N	195	A	P-O5'-C5'	7.44	132.80	120.90
1	N	222	C	N1-C2-N3	-7.44	114.00	119.20
1	N	318	G	P-O3'-C3'	-7.44	110.78	119.70
1	N	452	A	N1-C6-N6	7.43	123.06	118.60
1	N	775	G	N1-C6-O6	7.43	124.36	119.90
1	N	1002	G	C5-C6-N1	-7.43	107.78	111.50
1	N	1233	G	C5-C6-O6	-7.43	124.14	128.60
1	N	776	G	N1-C6-O6	7.43	124.36	119.90
1	N	1241	G	C4-C5-N7	7.43	113.77	110.80
1	N	128	G	N1-C6-O6	-7.43	115.44	119.90
1	N	302	G	C4-C5-C6	7.43	123.26	118.80
1	N	335	C	O4'-C4'-C3'	-7.43	96.57	104.00
1	N	468	A	O4'-C1'-N9	7.43	114.14	108.20
1	N	622	A	O4'-C1'-N9	7.43	114.14	108.20
1	N	19	A	O4'-C1'-N9	7.43	114.14	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	762	U	N3-C4-O4	7.43	124.60	119.40
1	N	99	C	P-O3'-C3'	7.43	128.61	119.70
1	N	541	G	N1-C6-O6	7.43	124.36	119.90
1	N	633	G	C8-N9-C4	-7.43	103.43	106.40
1	N	1034	G	C4-C5-C6	7.43	123.26	118.80
1	N	1043	G	N1-C2-N3	-7.43	119.44	123.90
1	N	1339	A	C4-C5-C6	7.43	120.71	117.00
1	N	343	U	C2-N1-C1'	-7.42	108.79	117.70
1	N	1050	G	C5'-C4'-C3'	-7.42	104.12	116.00
1	N	1060	U	C2-N3-C4	7.42	131.46	127.00
1	N	614	C	N3-C4-N4	7.42	123.20	118.00
1	N	297	G	O4'-C1'-N9	7.42	114.14	108.20
1	N	467	U	N1-C2-O2	7.42	128.00	122.80
1	N	288	A	C5-C6-N6	-7.42	117.76	123.70
1	N	1357	A	O4'-C1'-N9	7.42	114.14	108.20
1	N	210	C	N3-C4-N4	7.42	123.19	118.00
1	N	1331	G	N1-C6-O6	7.42	124.35	119.90
1	N	1433	A	O3'-P-O5'	-7.42	89.91	104.00
1	N	325	A	C5-C6-N1	-7.41	113.99	117.70
1	N	582	C	O4'-C4'-C3'	-7.41	96.59	104.00
1	N	87	C	N3-C4-N4	7.41	123.19	118.00
1	N	668	G	N1-C6-O6	7.41	124.35	119.90
1	N	1353	G	O4'-C1'-N9	7.41	114.13	108.20
1	N	1153	G	P-O3'-C3'	-7.41	110.81	119.70
1	N	1278	G	C4'-C3'-C2'	-7.41	95.19	102.60
1	N	1399	C	C4-C5-C6	7.41	121.11	117.40
1	N	1494	G	C5'-C4'-O4'	7.41	117.99	109.10
1	N	490	C	O4'-C1'-N1	7.41	114.12	108.20
1	N	900	A	N1-C6-N6	7.41	123.04	118.60
1	N	1215	G	N3-C4-C5	7.41	132.30	128.60
1	N	487	A	C4-C5-N7	7.41	114.40	110.70
1	N	273	U	C6-N1-C2	-7.40	116.56	121.00
1	N	820	U	C5-C6-N1	7.40	126.40	122.70
1	N	269	C	N3-C4-N4	7.40	123.18	118.00
1	N	369	G	C6-C5-N7	-7.40	125.96	130.40
1	N	1143	G	C5-N7-C8	-7.40	100.60	104.30
1	N	1324	A	N7-C8-N9	7.40	117.50	113.80
1	N	1190	G	O4'-C1'-N9	7.40	114.12	108.20
1	N	1319	A	O4'-C1'-N9	7.40	114.12	108.20
1	N	1485	U	C5-C6-N1	7.40	126.40	122.70
1	N	89	U	O4'-C1'-N1	7.40	114.12	108.20
1	N	303	A	C6-C5-N7	-7.40	127.12	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	786	G	P-O3'-C3'	7.40	128.58	119.70
1	N	111	G	O4'-C1'-N9	7.40	114.12	108.20
1	N	237	G	C4-C5-C6	7.40	123.24	118.80
1	N	802	A	P-O3'-C3'	7.40	128.58	119.70
1	N	502	A	C4-C5-C6	7.39	120.70	117.00
1	N	890	G	N1-C6-O6	7.39	124.34	119.90
1	N	1490	U	C2-N3-C4	-7.39	122.56	127.00
1	N	247	G	N1-C6-O6	7.39	124.33	119.90
1	N	729	A	N9-C4-C5	7.39	108.76	105.80
1	N	1127	G	N7-C8-N9	7.39	116.80	113.10
1	N	1401	G	C6-C5-N7	-7.39	125.96	130.40
1	N	770	C	O4'-C1'-N1	7.39	114.11	108.20
1	N	788	U	N3-C4-O4	7.39	124.57	119.40
1	N	1406	U	C5-C4-O4	-7.39	121.47	125.90
1	N	382	A	O4'-C1'-N9	7.39	114.11	108.20
1	N	537	G	C4-C5-N7	7.39	113.76	110.80
1	N	1025	U	O4'-C1'-N1	7.39	114.11	108.20
1	N	1432	G	N3-C4-C5	-7.39	124.91	128.60
1	N	226	G	N1-C2-N3	-7.39	119.47	123.90
1	N	782	A	C2-N3-C4	7.39	114.29	110.60
1	N	370	C	N1-C2-O2	7.38	123.33	118.90
1	N	1138	G	C6-C5-N7	-7.38	125.97	130.40
1	N	536	C	C6-N1-C2	-7.38	117.35	120.30
1	N	583	A	C4-C5-N7	-7.38	107.01	110.70
1	N	924	C	C6-N1-C2	-7.38	117.35	120.30
1	N	1298	U	C4-C5-C6	7.38	124.13	119.70
1	N	1474	U	N1-C2-O2	7.38	127.97	122.80
1	N	73	C	C2-N3-C4	-7.38	116.21	119.90
1	N	75	G	C6-C5-N7	-7.38	125.97	130.40
1	N	217	C	C5-C6-N1	7.38	124.69	121.00
1	N	286	C	C5-C4-N4	-7.38	115.04	120.20
1	N	409	U	C2-N1-C1'	7.38	126.55	117.70
1	N	440	C	O5'-C5'-C4'	-7.38	97.68	111.70
1	N	505	G	N1-C2-N2	7.38	122.84	116.20
1	N	829	G	O5'-P-OP2	7.38	119.55	110.70
1	N	1373	G	C5-C6-O6	-7.38	124.17	128.60
1	N	468	A	C4-C5-C6	7.37	120.69	117.00
1	N	996	A	P-O3'-C3'	-7.37	110.85	119.70
1	N	1400	C	O4'-C1'-N1	7.37	114.10	108.20
1	N	95	C	C6-N1-C2	-7.37	117.35	120.30
1	N	355	C	C6-N1-C2	-7.37	117.35	120.30
1	N	462	G	C3'-C2'-C1'	7.37	107.40	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1529	G	C2-N3-C4	7.37	115.59	111.90
1	N	196	A	O3'-P-O5'	-7.37	90.00	104.00
1	N	1081	A	C5-C6-N6	-7.37	117.80	123.70
1	N	548	G	N1-C2-N3	-7.37	119.48	123.90
1	N	690	G	C6-C5-N7	-7.37	125.98	130.40
1	N	1297	G	C5-C6-O6	-7.37	124.18	128.60
1	N	416	G	C5-C6-N1	-7.37	107.82	111.50
1	N	572	A	N9-C4-C5	7.37	108.75	105.80
1	N	478	A	C5-C6-N1	-7.37	114.02	117.70
1	N	1432	G	O4'-C1'-N9	7.37	114.09	108.20
1	N	177	G	C5-C6-O6	7.36	133.02	128.60
1	N	835	U	O4'-C1'-N1	7.36	114.09	108.20
1	N	502	A	N1-C2-N3	-7.36	125.62	129.30
1	N	763	G	C4'-C3'-C2'	-7.36	95.24	102.60
1	N	918	A	C8-N9-C4	7.36	108.75	105.80
1	N	153	C	N3-C4-N4	7.36	123.15	118.00
1	N	1322	C	C6-N1-C2	7.36	123.24	120.30
1	N	830	G	O4'-C1'-N9	7.36	114.09	108.20
1	N	1324	A	C6-C5-N7	-7.36	127.15	132.30
1	N	214	C	O4'-C1'-N1	7.36	114.09	108.20
1	N	937	A	C4-C5-N7	-7.36	107.02	110.70
1	N	1007	U	C3'-C2'-C1'	7.36	107.38	101.50
1	N	1350	A	N1-C2-N3	7.36	132.98	129.30
1	N	191	G	C5-C6-N1	-7.35	107.82	111.50
1	N	381	C	C6-N1-C2	-7.35	117.36	120.30
1	N	392	C	C2-N1-C1'	7.35	126.89	118.80
1	N	688	G	O4'-C1'-N9	7.35	114.08	108.20
1	N	824	G	N1-C2-N3	-7.35	119.49	123.90
1	N	1066	C	P-O3'-C3'	-7.35	110.88	119.70
1	N	56	U	O4'-C1'-C2'	-7.35	98.45	105.80
1	N	855	U	C6-N1-C1'	-7.35	110.91	121.20
1	N	1187	G	C5-C6-O6	-7.35	124.19	128.60
1	N	76	G	C5'-C4'-C3'	-7.35	104.25	116.00
1	N	124	C	N3-C4-N4	7.35	123.14	118.00
1	N	1160	G	N7-C8-N9	-7.35	109.43	113.10
1	N	628	G	N3-C4-C5	-7.35	124.93	128.60
1	N	682	G	C6-C5-N7	-7.35	125.99	130.40
1	N	732	C	P-O5'-C5'	7.35	132.65	120.90
1	N	1078	U	O4'-C1'-N1	7.35	114.08	108.20
1	N	1366	C	C6-N1-C2	-7.35	117.36	120.30
1	N	1408	A	C5-C6-N1	-7.35	114.03	117.70
1	N	119	A	C5-C6-N1	-7.34	114.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	156	C	N1-C2-O2	-7.34	114.49	118.90
1	N	303	A	C5-C6-N6	-7.34	117.82	123.70
1	N	635	A	C5-C6-N1	-7.34	114.03	117.70
1	N	1093	A	C5-N7-C8	7.34	107.57	103.90
1	N	420	U	N3-C4-O4	7.34	124.54	119.40
1	N	499	A	C5-C6-N6	-7.34	117.83	123.70
1	N	287	U	O4'-C1'-N1	7.34	114.07	108.20
1	N	520	A	O4'-C1'-N9	7.34	114.07	108.20
1	N	786	G	C6-C5-N7	-7.34	126.00	130.40
1	N	911	U	C5-C6-N1	7.34	126.37	122.70
1	N	1013	G	N1-C6-O6	7.34	124.31	119.90
1	N	1533	C	O4'-C1'-C2'	-7.34	98.46	105.80
1	N	196	A	C4-C5-C6	7.34	120.67	117.00
1	N	540	G	C5-C6-O6	-7.34	124.20	128.60
1	N	1026	G	O4'-C1'-N9	7.34	114.07	108.20
1	N	1039	G	O4'-C1'-N9	7.34	114.07	108.20
1	N	703	G	C4-C5-C6	7.34	123.20	118.80
1	N	1018	G	N3-C2-N2	7.34	125.04	119.90
1	N	1306	A	C4-C5-C6	7.34	120.67	117.00
1	N	1246	A	O4'-C1'-N9	7.33	114.07	108.20
1	N	503	C	C6-N1-C2	-7.33	117.37	120.30
1	N	139	A	C5-N7-C8	-7.33	100.23	103.90
1	N	710	G	C4'-C3'-C2'	-7.33	95.27	102.60
1	N	846	G	C5'-C4'-O4'	7.33	117.90	109.10
1	N	1172	C	N1-C2-O2	-7.33	114.50	118.90
1	N	1270	G	C2-N3-C4	-7.33	108.23	111.90
1	N	915	A	N7-C8-N9	-7.33	110.14	113.80
1	N	71	A	C5-N7-C8	7.33	107.56	103.90
1	N	359	G	N1-C2-N3	-7.33	119.50	123.90
1	N	630	A	C5-C6-N6	-7.33	117.84	123.70
1	N	1331	G	C5-C6-O6	-7.33	124.20	128.60
1	N	236	A	C5-N7-C8	7.33	107.56	103.90
1	N	274	A	C5-C6-N6	-7.33	117.84	123.70
1	N	786	G	O4'-C1'-N9	7.33	114.06	108.20
1	N	691	G	P-O5'-C5'	7.33	132.62	120.90
1	N	1230	C	P-O5'-C5'	7.33	132.62	120.90
1	N	717	U	C5'-C4'-O4'	7.32	117.89	109.10
1	N	1533	C	O4'-C1'-N1	7.32	114.06	108.20
1	N	36	C	N3-C4-C5	-7.32	118.97	121.90
1	N	56	U	O4'-C1'-N1	7.32	114.06	108.20
1	N	779	C	C6-N1-C2	-7.32	117.37	120.30
1	N	382	A	C4-C5-C6	7.32	120.66	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	654	G	C5-C6-N1	-7.32	107.84	111.50
1	N	390	U	N1-C2-O2	-7.32	117.68	122.80
1	N	693	G	C4'-C3'-C2'	-7.32	95.28	102.60
1	N	1192	C	C5-C4-N4	-7.32	115.08	120.20
1	N	197	A	C8-N9-C4	-7.32	102.87	105.80
1	N	309	A	C4-C5-C6	7.32	120.66	117.00
1	N	696	A	C5-C6-N6	-7.32	117.85	123.70
1	N	777	A	C8-N9-C4	7.32	108.73	105.80
1	N	1385	G	C4-C5-C6	7.32	123.19	118.80
1	N	513	C	P-O5'-C5'	7.31	132.60	120.90
1	N	992	U	C5'-C4'-C3'	7.31	127.70	116.00
1	N	608	A	O4'-C1'-N9	7.31	114.05	108.20
1	N	919	A	N1-C6-N6	7.31	122.99	118.60
1	N	1035	A	N3-C4-C5	-7.31	121.68	126.80
1	N	412	A	N7-C8-N9	-7.31	110.14	113.80
1	N	414	A	C6-C5-N7	-7.31	127.18	132.30
1	N	1039	G	C6-N1-C2	7.31	129.49	125.10
1	N	183	C	C2-N3-C4	7.31	123.55	119.90
1	N	1253	G	C5-C6-O6	-7.31	124.22	128.60
1	N	1462	C	O4'-C1'-N1	7.31	114.05	108.20
1	N	179	A	C4-C5-C6	7.31	120.65	117.00
1	N	316	C	C4'-C3'-C2'	-7.30	95.30	102.60
1	N	1226	C	C5-C4-N4	-7.30	115.09	120.20
1	N	1254	A	N9-C4-C5	7.30	108.72	105.80
1	N	694	A	C5-C6-N1	-7.30	114.05	117.70
1	N	1383	C	C2-N3-C4	7.30	123.55	119.90
1	N	446	G	N1-C2-N3	-7.30	119.52	123.90
1	N	566	G	C4'-C3'-C2'	7.30	109.90	102.60
1	N	835	U	C5-C6-N1	7.30	126.35	122.70
1	N	160	A	O4'-C1'-N9	7.29	114.03	108.20
1	N	581	G	C6-C5-N7	-7.29	126.03	130.40
1	N	617	G	N1-C2-N3	-7.29	119.53	123.90
1	N	944	G	C2-N3-C4	7.29	115.55	111.90
1	N	1102	A	O4'-C1'-N9	7.29	114.03	108.20
1	N	575	G	C8-N9-C4	7.29	109.31	106.40
1	N	149	A	C4-C5-C6	7.28	120.64	117.00
1	N	663	A	O4'-C1'-N9	7.28	114.03	108.20
1	N	1293	C	C5-C4-N4	-7.28	115.10	120.20
1	N	1422	G	C6-C5-N7	-7.28	126.03	130.40
1	N	193	C	C5-C4-N4	-7.28	115.10	120.20
1	N	702	A	N1-C6-N6	7.28	122.97	118.60
1	N	1261	A	C6-N1-C2	-7.28	114.23	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	147	G	N3-C2-N2	7.28	124.99	119.90
1	N	688	G	N3-C4-C5	-7.28	124.96	128.60
1	N	64	G	C5-C6-O6	-7.28	124.23	128.60
1	N	308	C	C4'-C3'-C2'	-7.28	95.33	102.60
1	N	340	U	P-O5'-C5'	7.28	132.54	120.90
1	N	620	C	C6-N1-C2	7.28	123.21	120.30
1	N	723	U	C6-N1-C2	-7.28	116.63	121.00
1	N	1186	G	P-O5'-C5'	-7.28	109.26	120.90
1	N	1297	G	N1-C2-N2	-7.28	109.65	116.20
1	N	374	A	N9-C4-C5	7.27	108.71	105.80
1	N	1194	U	N3-C4-O4	7.27	124.49	119.40
1	N	156	C	C5-C6-N1	7.27	124.64	121.00
1	N	157	U	O4'-C1'-N1	7.27	114.02	108.20
1	N	742	G	N1-C2-N3	-7.27	119.54	123.90
1	N	857	C	O4'-C1'-N1	7.27	114.02	108.20
1	N	1285	A	N3-C4-C5	-7.27	121.71	126.80
1	N	960	U	C3'-C2'-C1'	7.27	107.32	101.50
1	N	1007	U	C5-C4-O4	-7.27	121.54	125.90
1	N	851	G	C4-C5-N7	7.27	113.71	110.80
1	N	1078	U	C6-N1-C1'	-7.27	111.03	121.20
1	N	188	C	O4'-C1'-N1	7.27	114.01	108.20
1	N	751	U	N3-C2-O2	7.27	127.29	122.20
1	N	1385	G	C4-C5-N7	-7.27	107.89	110.80
1	N	88	U	C4-C5-C6	7.26	124.06	119.70
1	N	426	U	O5'-C5'-C4'	-7.26	97.90	111.70
1	N	542	G	C5-C6-N1	-7.26	107.87	111.50
1	N	1209	C	N1-C2-O2	7.26	123.26	118.90
1	N	1300	G	N1-C2-N3	-7.26	119.54	123.90
1	N	932	C	N3-C4-C5	-7.26	119.00	121.90
1	N	1215	G	N9-C4-C5	-7.26	102.50	105.40
1	N	317	U	C5'-C4'-O4'	7.26	117.81	109.10
1	N	1385	G	O4'-C4'-C3'	-7.26	96.74	104.00
1	N	193	C	C5-C6-N1	7.25	124.63	121.00
1	N	621	A	C5-N7-C8	7.25	107.53	103.90
1	N	335	C	C5-C4-N4	-7.25	115.12	120.20
1	N	377	G	C2-N3-C4	7.25	115.53	111.90
1	N	899	C	C2-N1-C1'	7.25	126.78	118.80
1	N	99	C	O4'-C1'-N1	7.25	114.00	108.20
1	N	299	G	C8-N9-C4	-7.25	103.50	106.40
1	N	514	C	C5-C4-N4	-7.25	115.12	120.20
1	N	785	G	O4'-C1'-N9	7.25	114.00	108.20
1	N	1227	A	N3-C4-N9	7.25	133.20	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	497	G	O4'-C1'-N9	7.25	114.00	108.20
1	N	303	A	N1-C2-N3	7.25	132.92	129.30
1	N	748	G	O4'-C1'-N9	7.25	114.00	108.20
1	N	899	C	N1-C2-O2	-7.25	114.55	118.90
1	N	1178	G	N9-C4-C5	7.25	108.30	105.40
1	N	1191	A	O4'-C1'-N9	7.25	114.00	108.20
1	N	1274	A	P-O3'-C3'	-7.25	111.00	119.70
1	N	590	U	N3-C4-O4	7.25	124.47	119.40
1	N	699	C	O4'-C1'-N1	7.25	114.00	108.20
1	N	865	A	O4'-C1'-N9	7.25	114.00	108.20
1	N	949	A	C8-N9-C4	-7.25	102.90	105.80
1	N	1517	G	C8-N9-C4	-7.25	103.50	106.40
1	N	630	A	C4-C5-C6	7.25	120.62	117.00
1	N	380	G	N1-C2-N3	-7.24	119.55	123.90
1	N	709	U	O4'-C1'-N1	7.24	114.00	108.20
1	N	1077	G	O4'-C1'-N9	7.24	113.99	108.20
1	N	1086	U	O5'-C5'-C4'	7.24	125.46	111.70
1	N	1484	C	P-O5'-C5'	7.24	132.49	120.90
1	N	67	C	N3-C2-O2	7.24	126.97	121.90
1	N	1488	G	C4-C5-C6	7.24	123.14	118.80
1	N	62	U	C5-C6-N1	7.24	126.32	122.70
1	N	256	U	P-O5'-C5'	7.24	132.49	120.90
1	N	706	A	C4-C5-C6	7.24	120.62	117.00
1	N	889	A	C5-C6-N1	7.24	121.32	117.70
1	N	230	G	N3-C2-N2	7.24	124.97	119.90
1	N	495	A	O4'-C1'-N9	7.24	113.99	108.20
1	N	1057	G	C6-N1-C2	7.24	129.44	125.10
1	N	1059	C	C6-N1-C2	-7.24	117.41	120.30
1	N	1156	G	C4-C5-N7	7.24	113.69	110.80
1	N	1300	G	O4'-C1'-N9	7.24	113.99	108.20
1	N	972	C	N3-C4-C5	-7.24	119.00	121.90
1	N	1067	A	N1-C6-N6	7.24	122.94	118.60
1	N	97	G	O4'-C1'-N9	7.24	113.99	108.20
1	N	363	A	C5-C6-N6	-7.24	117.91	123.70
1	N	738	C	C6-N1-C2	-7.24	117.41	120.30
1	N	30	U	C2-N3-C4	7.23	131.34	127.00
1	N	758	C	N3-C4-N4	7.23	123.06	118.00
1	N	1036	A	C5'-C4'-O4'	7.23	117.78	109.10
1	N	1361	G	C6-C5-N7	-7.23	126.06	130.40
1	N	1136	C	N1-C2-O2	7.23	123.24	118.90
1	N	54	C	P-O3'-C3'	-7.23	111.03	119.70
1	N	919	A	C8-N9-C4	-7.23	102.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	10	A	P-O5'-C5'	7.23	132.47	120.90
1	N	23	C	C5-C6-N1	7.23	124.61	121.00
1	N	251	G	P-O3'-C3'	7.23	128.37	119.70
1	N	431	A	O4'-C1'-N9	7.23	113.98	108.20
1	N	554	A	C5-C6-N1	-7.23	114.09	117.70
1	N	1278	G	O4'-C1'-N9	7.23	113.98	108.20
1	N	406	G	C4-C5-N7	7.23	113.69	110.80
1	N	118	U	C5-C4-O4	-7.22	121.57	125.90
1	N	353	A	C2-N3-C4	7.22	114.21	110.60
1	N	620	C	C5-C6-N1	-7.22	117.39	121.00
1	N	681	A	C4-C5-N7	-7.22	107.09	110.70
1	N	1078	U	C3'-C2'-C1'	7.22	107.28	101.50
1	N	1490	U	N1-C2-N3	7.22	119.23	114.90
1	N	109	A	C3'-C2'-C1'	7.22	107.28	101.50
1	N	864	A	N1-C6-N6	7.22	122.93	118.60
1	N	1139	G	C6-C5-N7	-7.22	126.07	130.40
1	N	938	A	C5-N7-C8	7.22	107.51	103.90
1	N	286	C	C2-N1-C1'	7.22	126.74	118.80
1	N	849	G	C6-N1-C2	7.22	129.43	125.10
1	N	1032	G	C2-N3-C4	7.22	115.51	111.90
1	N	1530	G	O4'-C1'-N9	7.22	113.97	108.20
1	N	841	C	C2-N1-C1'	7.22	126.74	118.80
1	N	299	G	C6-C5-N7	-7.22	126.07	130.40
1	N	428	G	C5-C6-N1	-7.22	107.89	111.50
1	N	1316	G	C4-C5-N7	7.22	113.69	110.80
1	N	1482	G	P-O5'-C5'	7.22	132.44	120.90
1	N	589	U	N3-C4-O4	7.21	124.45	119.40
1	N	1099	G	P-O3'-C3'	7.21	128.36	119.70
1	N	1075	U	N1-C2-O2	-7.21	117.75	122.80
1	N	216	U	N3-C2-O2	7.21	127.25	122.20
1	N	521	G	C4-C5-C6	7.21	123.13	118.80
1	N	1126	U	C5-C4-O4	-7.21	121.57	125.90
1	N	1225	A	C5-C6-N1	-7.21	114.09	117.70
1	N	1434	A	C4-C5-C6	7.21	120.61	117.00
1	N	1059	C	N3-C4-C5	7.21	124.78	121.90
1	N	536	C	C5-C6-N1	7.21	124.60	121.00
1	N	1262	C	C6-N1-C2	-7.21	117.42	120.30
1	N	649	A	N1-C6-N6	7.21	122.92	118.60
1	N	1331	G	N1-C2-N3	-7.21	119.58	123.90
1	N	591	U	C5-C6-N1	7.21	126.30	122.70
1	N	693	G	N9-C4-C5	7.20	108.28	105.40
1	N	124	C	O4'-C1'-N1	7.20	113.96	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	270	A	C6-N1-C2	7.20	122.92	118.60
1	N	924	C	P-O5'-C5'	7.20	132.42	120.90
1	N	1139	G	N1-C2-N3	-7.20	119.58	123.90
1	N	1179	A	C5-C6-N1	-7.20	114.10	117.70
1	N	1272	G	O4'-C1'-N9	7.20	113.96	108.20
1	N	812	G	N9-C4-C5	-7.20	102.52	105.40
1	N	908	A	O4'-C1'-N9	7.20	113.96	108.20
1	N	1142	G	C8-N9-C4	-7.20	103.52	106.40
1	N	1400	C	C6-N1-C2	-7.20	117.42	120.30
1	N	1314	C	C6-N1-C2	-7.20	117.42	120.30
1	N	101	A	C4-C5-C6	7.19	120.60	117.00
1	N	133	U	N1-C2-N3	-7.19	110.58	114.90
1	N	199	A	C5-C6-N1	-7.19	114.10	117.70
1	N	929	G	C5-N7-C8	-7.19	100.70	104.30
1	N	1025	U	C3'-C2'-C1'	7.19	107.25	101.50
1	N	7	A	P-O3'-C3'	7.19	128.33	119.70
1	N	574	A	C4-C5-C6	7.19	120.59	117.00
1	N	620	C	C4-C5-C6	7.19	121.00	117.40
1	N	799	G	C2-N3-C4	-7.19	108.31	111.90
1	N	1354	U	O4'-C1'-N1	7.19	113.95	108.20
1	N	398	U	O4'-C1'-N1	7.19	113.95	108.20
1	N	779	C	C4-C5-C6	7.19	120.99	117.40
1	N	794	A	P-O3'-C3'	-7.19	111.07	119.70
1	N	1021	A	C8-N9-C4	-7.19	102.92	105.80
1	N	370	C	C5-C4-N4	-7.18	115.17	120.20
1	N	381	C	C4'-C3'-C2'	-7.18	95.42	102.60
1	N	825	A	O4'-C1'-N9	7.18	113.95	108.20
1	N	197	A	C5-C6-N1	-7.18	114.11	117.70
1	N	1191	A	P-O5'-C5'	7.18	132.39	120.90
1	N	1224	U	C6-N1-C1'	-7.18	111.14	121.20
1	N	134	G	N1-C2-N3	-7.18	119.59	123.90
1	N	1403	C	O4'-C1'-N1	7.18	113.94	108.20
1	N	18	C	N3-C4-N4	7.18	123.03	118.00
1	N	675	A	O4'-C1'-N9	7.18	113.94	108.20
1	N	1311	A	O4'-C1'-N9	7.18	113.94	108.20
1	N	1413	A	N1-C2-N3	7.18	132.89	129.30
1	N	1437	A	C4-C5-N7	-7.18	107.11	110.70
1	N	1438	G	C5-C6-N1	-7.18	107.91	111.50
1	N	1170	A	N1-C6-N6	7.18	122.91	118.60
1	N	1215	G	C8-N9-C4	7.18	109.27	106.40
1	N	327	A	C5-N7-C8	7.17	107.49	103.90
1	N	724	G	C4-C5-C6	7.17	123.11	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1150	A	P-O5'-C5'	7.17	132.37	120.90
1	N	89	U	C5-C6-N1	7.17	126.28	122.70
1	N	215	C	C6-N1-C1'	-7.17	112.20	120.80
1	N	55	A	N1-C2-N3	7.17	132.88	129.30
1	N	806	C	C6-N1-C2	7.17	123.17	120.30
1	N	81	A	O4'-C1'-N9	7.17	113.93	108.20
1	N	215	C	C2-N1-C1'	7.16	126.68	118.80
1	N	642	A	C6-N1-C2	-7.16	114.30	118.60
1	N	803	G	C8-N9-C4	-7.16	103.53	106.40
1	N	1068	G	C5-C6-O6	7.16	132.90	128.60
1	N	770	C	N1-C2-N3	-7.16	114.19	119.20
1	N	1047	G	C5-N7-C8	-7.16	100.72	104.30
1	N	1529	G	C4-C5-C6	7.16	123.10	118.80
1	N	100	G	C4'-C3'-C2'	-7.16	95.44	102.60
1	N	259	G	N3-C4-C5	-7.16	125.02	128.60
1	N	988	G	N3-C2-N2	7.16	124.91	119.90
1	N	1430	A	C6-N1-C2	-7.16	114.31	118.60
1	N	648	A	C8-N9-C4	-7.16	102.94	105.80
1	N	668	G	C6-C5-N7	-7.16	126.11	130.40
1	N	1426	G	N3-C2-N2	7.16	124.91	119.90
1	N	504	C	N1-C2-O2	7.15	123.19	118.90
1	N	1322	C	N3-C4-N4	7.15	123.01	118.00
1	N	1311	A	C5-C6-N1	-7.15	114.12	117.70
1	N	1346	A	O4'-C1'-N9	7.15	113.92	108.20
1	N	441	A	C5-N7-C8	7.15	107.48	103.90
1	N	1116	U	C6-N1-C2	-7.15	116.71	121.00
1	N	499	A	N3-C4-N9	7.15	133.12	127.40
1	N	1298	U	C5'-C4'-O4'	7.15	117.68	109.10
1	N	116	A	O4'-C1'-N9	7.15	113.92	108.20
1	N	449	G	N1-C6-O6	7.15	124.19	119.90
1	N	309	A	C8-N9-C4	-7.15	102.94	105.80
1	N	1328	C	O4'-C1'-N1	7.15	113.92	108.20
1	N	1405	G	C4'-C3'-C2'	-7.15	95.45	102.60
1	N	80	A	C5-N7-C8	7.14	107.47	103.90
1	N	696	A	O4'-C1'-N9	7.14	113.92	108.20
1	N	458	U	C6-N1-C2	-7.14	116.72	121.00
1	N	369	G	N3-C2-N2	7.14	124.90	119.90
1	N	773	G	C4-C5-N7	-7.14	107.94	110.80
1	N	1242	G	N9-C4-C5	7.14	108.26	105.40
1	N	134	G	N1-C6-O6	7.14	124.18	119.90
1	N	255	G	C5-C6-N1	-7.14	107.93	111.50
1	N	562	U	N1-C2-N3	7.14	119.18	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1370	G	C5'-C4'-C3'	-7.14	104.58	116.00
1	N	130	A	C5-C6-N1	-7.14	114.13	117.70
1	N	410	G	P-O3'-C3'	7.14	128.27	119.70
1	N	945	G	C8-N9-C4	7.14	109.25	106.40
1	N	39	G	N1-C2-N3	-7.14	119.62	123.90
1	N	409	U	N3-C4-C5	-7.14	110.32	114.60
1	N	1215	G	N1-C2-N3	-7.14	119.62	123.90
1	N	1365	G	C5-N7-C8	7.14	107.87	104.30
1	N	53	A	N1-C6-N6	7.13	122.88	118.60
1	N	1216	A	C5-N7-C8	7.13	107.47	103.90
1	N	631	C	N3-C4-N4	7.13	122.99	118.00
1	N	699	C	P-O3'-C3'	-7.13	111.14	119.70
1	N	13	U	N3-C4-O4	7.13	124.39	119.40
1	N	1064	G	C6-C5-N7	-7.13	126.12	130.40
1	N	1479	C	O4'-C1'-N1	7.13	113.90	108.20
1	N	1510	C	N3-C2-O2	7.13	126.89	121.90
1	N	741	G	O4'-C1'-N9	7.13	113.90	108.20
1	N	795	C	N3-C4-N4	7.13	122.99	118.00
1	N	940	C	C6-N1-C2	-7.13	117.45	120.30
1	N	736	C	N3-C4-N4	7.12	122.99	118.00
1	N	857	C	N3-C4-C5	-7.12	119.05	121.90
1	N	1513	A	C6-C5-N7	-7.12	127.32	132.30
1	N	230	G	C8-N9-C4	-7.12	103.55	106.40
1	N	747	A	P-O5'-C5'	7.12	132.29	120.90
1	N	881	G	C5-C6-O6	-7.12	124.33	128.60
1	N	1220	G	N1-C2-N3	-7.12	119.63	123.90
1	N	520	A	C5-C6-N6	-7.12	118.01	123.70
1	N	543	U	P-O5'-C5'	7.12	132.28	120.90
1	N	696	A	N9-C4-C5	7.12	108.65	105.80
1	N	1528	U	N3-C2-O2	7.12	127.18	122.20
1	N	649	A	C5-N7-C8	7.11	107.46	103.90
1	N	1160	G	N9-C1'-C2'	-7.11	104.17	112.00
1	N	195	A	N9-C4-C5	7.11	108.64	105.80
1	N	1374	A	C5-C6-N6	-7.11	118.01	123.70
1	N	1430	A	N1-C6-N6	7.11	122.87	118.60
1	N	314	C	C5-C6-N1	7.11	124.56	121.00
1	N	1002	G	C4'-C3'-C2'	-7.11	95.49	102.60
1	N	1074	G	C2-N3-C4	-7.11	108.35	111.90
1	N	499	A	C5'-C4'-C3'	-7.11	104.63	116.00
1	N	731	G	C5-C6-O6	-7.11	124.34	128.60
1	N	1198	G	C2-N3-C4	7.11	115.45	111.90
1	N	1217	C	C2-N3-C4	7.11	123.45	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1362	A	C2-N3-C4	-7.11	107.05	110.60
1	N	1368	A	N1-C6-N6	7.11	122.86	118.60
1	N	530	G	O4'-C1'-N9	7.10	113.88	108.20
1	N	515	G	N1-C2-N3	-7.10	119.64	123.90
1	N	683	G	C4-C5-N7	7.10	113.64	110.80
1	N	55	A	P-O3'-C3'	-7.10	111.18	119.70
1	N	148	G	P-O3'-C3'	-7.10	111.18	119.70
1	N	1162	C	N3-C4-N4	7.10	122.97	118.00
1	N	1333	A	O4'-C1'-C2'	-7.10	98.70	105.80
1	N	318	G	N1-C6-O6	7.10	124.16	119.90
1	N	1373	G	C8-N9-C4	-7.10	103.56	106.40
1	N	364	A	C6-N1-C2	-7.09	114.34	118.60
1	N	243	A	P-O5'-C5'	7.09	132.25	120.90
1	N	1267	C	C6-N1-C2	-7.09	117.46	120.30
1	N	1269	A	C5'-C4'-C3'	7.09	127.34	116.00
1	N	1520	C	C5-C4-N4	-7.09	115.24	120.20
1	N	970	C	C6-N1-C1'	-7.09	112.29	120.80
1	N	1249	C	N3-C4-C5	-7.09	119.06	121.90
1	N	1287	A	C4-C5-C6	7.09	120.55	117.00
1	N	1101	A	C4'-C3'-C2'	7.09	109.69	102.60
1	N	16	A	N1-C6-N6	7.09	122.85	118.60
1	N	66	A	C5-C6-N1	-7.09	114.16	117.70
1	N	1177	G	C6-C5-N7	-7.09	126.15	130.40
1	N	1208	C	N3-C4-N4	7.09	122.96	118.00
1	N	870	U	O4'-C1'-N1	7.08	113.87	108.20
1	N	1147	C	C5-C4-N4	-7.08	115.24	120.20
1	N	285	C	O4'-C1'-N1	7.08	113.87	108.20
1	N	374	A	C4-N9-C1'	-7.08	113.55	126.30
1	N	614	C	C2-N3-C4	-7.08	116.36	119.90
1	N	673	A	C8-N9-C4	7.08	108.63	105.80
1	N	900	A	C4'-C3'-C2'	-7.08	95.52	102.60
1	N	1456	A	C4-C5-C6	7.08	120.54	117.00
1	N	263	A	C5-C6-N6	-7.08	118.03	123.70
1	N	373	A	C1'-O4'-C4'	7.08	115.57	109.90
1	N	1023	U	C4-C5-C6	-7.08	115.45	119.70
1	N	1068	G	C5-C6-N1	-7.08	107.96	111.50
1	N	243	A	C5-N7-C8	7.08	107.44	103.90
1	N	514	C	N1-C2-N3	-7.08	114.24	119.20
1	N	1281	C	P-O3'-C3'	7.08	128.19	119.70
1	N	394	G	C2-N3-C4	7.08	115.44	111.90
1	N	1061	G	C5-C6-N1	-7.08	107.96	111.50
1	N	1531	A	C4-C5-C6	7.08	120.54	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	820	U	C2-N1-C1'	7.07	126.19	117.70
1	N	971	G	N9-C4-C5	-7.07	102.57	105.40
1	N	1056	U	O4'-C1'-N1	7.07	113.86	108.20
1	N	1307	U	C5-C4-O4	-7.07	121.66	125.90
1	N	80	A	C4-C5-N7	-7.07	107.16	110.70
1	N	3	A	C4-C5-C6	7.07	120.54	117.00
1	N	316	C	N3-C4-N4	7.07	122.95	118.00
1	N	614	C	C6-N1-C1'	-7.07	112.31	120.80
1	N	958	A	C5-N7-C8	7.07	107.44	103.90
1	N	1123	U	C5-C6-N1	7.07	126.23	122.70
1	N	1131	G	N1-C2-N3	-7.07	119.66	123.90
1	N	1406	U	O4'-C1'-N1	7.07	113.86	108.20
1	N	254	G	C5-C6-O6	-7.07	124.36	128.60
1	N	648	A	C2-N3-C4	-7.07	107.06	110.60
1	N	1391	U	C4-C5-C6	-7.07	115.46	119.70
1	N	292	G	O4'-C1'-N9	7.07	113.85	108.20
1	N	1212	U	O4'-C1'-N1	7.07	113.85	108.20
1	N	1500	A	C4'-C3'-C2'	-7.07	95.53	102.60
1	N	1091	U	N3-C2-O2	7.07	127.14	122.20
1	N	678	U	C4-C5-C6	7.06	123.94	119.70
1	N	1142	G	C5-C6-O6	-7.06	124.36	128.60
1	N	491	G	N9-C4-C5	7.06	108.22	105.40
1	N	821	G	C5-C6-O6	-7.06	124.36	128.60
1	N	829	G	C6-C5-N7	-7.06	126.16	130.40
1	N	1326	U	C4'-C3'-C2'	-7.06	95.54	102.60
1	N	61	G	C5-C6-N1	-7.06	107.97	111.50
1	N	334	C	O4'-C1'-N1	7.06	113.85	108.20
1	N	504	C	C4-C5-C6	7.06	120.93	117.40
1	N	1297	G	C3'-C2'-C1'	7.06	107.15	101.50
1	N	977	A	C5-C6-N1	-7.06	114.17	117.70
1	N	1075	U	P-O3'-C3'	-7.06	111.23	119.70
1	N	1239	A	O3'-P-O5'	7.06	117.41	104.00
1	N	874	G	N3-C4-C5	-7.06	125.07	128.60
1	N	860	A	O5'-C5'-C4'	-7.06	98.29	111.70
1	N	897	C	C2-N3-C4	7.06	123.43	119.90
1	N	1013	G	C3'-C2'-C1'	-7.06	95.86	101.50
1	N	342	C	N1-C2-O2	7.05	123.13	118.90
1	N	723	U	N3-C4-O4	7.05	124.34	119.40
1	N	792	A	P-O5'-C5'	-7.05	109.61	120.90
1	N	295	C	N3-C4-N4	7.05	122.94	118.00
1	N	348	G	C6-N1-C2	-7.05	120.87	125.10
1	N	1507	A	C5-C6-N6	-7.05	118.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	26	A	N1-C6-N6	7.05	122.83	118.60
1	N	139	A	N9-C4-C5	-7.05	102.98	105.80
1	N	488	C	C5-C4-N4	-7.05	115.26	120.20
1	N	616	G	N9-C4-C5	-7.05	102.58	105.40
1	N	897	C	O4'-C4'-C3'	-7.05	96.95	104.00
1	N	998	C	P-O3'-C3'	7.05	128.16	119.70
1	N	1492	A	C8-N9-C4	-7.05	102.98	105.80
1	N	230	G	C2-N3-C4	7.05	115.42	111.90
1	N	251	G	C6-C5-N7	-7.05	126.17	130.40
1	N	1460	C	C1'-O4'-C4'	7.05	115.54	109.90
1	N	1484	C	C6-N1-C1'	-7.05	112.34	120.80
1	N	1512	U	N3-C2-O2	7.05	127.13	122.20
1	N	1438	G	N9-C1'-C2'	-7.05	104.25	112.00
1	N	562	U	O4'-C1'-N1	7.05	113.84	108.20
1	N	635	A	O4'-C1'-N9	7.05	113.84	108.20
1	N	318	G	N3-C2-N2	7.04	124.83	119.90
1	N	603	U	C4'-C3'-C2'	-7.04	95.56	102.60
1	N	1419	G	N3-C4-N9	-7.04	121.77	126.00
1	N	298	A	C4-C5-C6	7.04	120.52	117.00
1	N	442	G	N1-C6-O6	7.04	124.13	119.90
1	N	772	U	C2-N1-C1'	-7.04	109.25	117.70
1	N	1479	C	N3-C4-N4	7.04	122.93	118.00
1	N	1475	G	C4-C5-C6	7.04	123.03	118.80
1	N	142	G	P-O3'-C3'	7.04	128.15	119.70
1	N	42	G	C3'-C2'-C1'	-7.04	95.87	101.50
1	N	257	G	C5-N7-C8	-7.04	100.78	104.30
1	N	495	A	N7-C8-N9	-7.04	110.28	113.80
1	N	675	A	N1-C2-N3	-7.04	125.78	129.30
1	N	798	U	C6-N1-C2	-7.04	116.78	121.00
1	N	295	C	C6-N1-C2	7.04	123.11	120.30
1	N	374	A	C8-N9-C1'	7.04	140.37	127.70
1	N	1089	G	N1-C6-O6	7.04	124.12	119.90
1	N	1156	G	C2-N3-C4	-7.04	108.38	111.90
1	N	232	G	C4-C5-C6	7.03	123.02	118.80
1	N	641	U	C2'-C3'-O3'	7.03	124.97	109.50
1	N	176	C	N3-C4-C5	-7.03	119.09	121.90
1	N	657	U	P-O3'-C3'	7.03	128.14	119.70
1	N	161	A	C2-N3-C4	-7.03	107.08	110.60
1	N	322	C	C6-N1-C2	7.03	123.11	120.30
1	N	406	G	C6-C5-N7	-7.03	126.18	130.40
1	N	568	G	N9-C4-C5	7.03	108.21	105.40
1	N	951	G	N3-C2-N2	7.03	124.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	140	U	C2-N3-C4	-7.03	122.78	127.00
1	N	398	U	C5-C4-O4	7.03	130.12	125.90
1	N	296	U	N1-C2-O2	-7.03	117.88	122.80
1	N	860	A	C2-N3-C4	-7.03	107.09	110.60
1	N	1522	U	N3-C4-O4	7.03	124.32	119.40
1	N	1277	C	O4'-C1'-N1	7.02	113.82	108.20
1	N	667	G	N7-C8-N9	-7.02	109.59	113.10
1	N	928	G	C5'-C4'-C3'	-7.02	104.77	116.00
1	N	601	G	C4-C5-C6	7.02	123.01	118.80
1	N	771	G	C5'-C4'-C3'	7.02	127.23	116.00
1	N	403	C	P-O3'-C3'	-7.02	111.28	119.70
1	N	551	U	C5-C6-N1	7.02	126.21	122.70
1	N	826	C	C6-N1-C2	-7.02	117.49	120.30
1	N	53	A	N9-C4-C5	7.02	108.61	105.80
1	N	425	G	N1-C6-O6	7.02	124.11	119.90
1	N	809	G	C4-C5-C6	7.02	123.01	118.80
1	N	1393	U	O4'-C1'-N1	7.02	113.81	108.20
1	N	1507	A	C4-C5-C6	7.02	120.51	117.00
1	N	729	A	C4-C5-N7	-7.01	107.19	110.70
1	N	1256	A	C8-N9-C4	7.01	108.61	105.80
1	N	1396	A	C1'-O4'-C4'	7.01	115.51	109.90
1	N	616	G	C2-N3-C4	-7.01	108.39	111.90
1	N	32	A	C5-C6-N6	-7.01	118.09	123.70
1	N	869	G	C5'-C4'-O4'	7.01	117.51	109.10
1	N	1438	G	O4'-C1'-N9	7.01	113.81	108.20
1	N	1508	A	C4-C5-N7	-7.01	107.19	110.70
1	N	124	C	C2-N3-C4	7.01	123.41	119.90
1	N	356	A	C2-N3-C4	-7.01	107.09	110.60
1	N	1227	A	C5-C6-N6	-7.01	118.09	123.70
1	N	1267	C	C5-C6-N1	7.01	124.50	121.00
1	N	1401	G	C8-N9-C4	-7.01	103.60	106.40
1	N	446	G	N3-C2-N2	7.01	124.81	119.90
1	N	497	G	C3'-C2'-C1'	7.01	107.11	101.50
1	N	562	U	C5'-C4'-O4'	7.01	117.51	109.10
1	N	889	A	N1-C6-N6	7.01	122.80	118.60
1	N	1430	A	O4'-C1'-N9	7.01	113.81	108.20
1	N	1491	G	N7-C8-N9	-7.01	109.60	113.10
1	N	329	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	1254	A	O4'-C1'-N9	7.00	113.80	108.20
1	N	87	C	C2-N3-C4	7.00	123.40	119.90
1	N	537	G	N9-C4-C5	-7.00	102.60	105.40
1	N	1267	C	P-O5'-C5'	-7.00	109.70	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1146	A	C5-C6-N1	-7.00	114.20	117.70
1	N	7	A	C4-C5-C6	7.00	120.50	117.00
1	N	421	U	C5-C4-O4	-7.00	121.70	125.90
1	N	833	G	N1-C2-N3	-7.00	119.70	123.90
1	N	951	G	C5-C6-N1	-7.00	108.00	111.50
1	N	963	G	C8-N9-C4	-7.00	103.60	106.40
1	N	1268	G	N1-C2-N2	-7.00	109.90	116.20
1	N	1372	U	C6-N1-C2	-7.00	116.80	121.00
1	N	146	G	P-O5'-C5'	7.00	132.09	120.90
1	N	328	C	O4'-C1'-N1	7.00	113.80	108.20
1	N	435	A	P-O5'-C5'	7.00	132.10	120.90
1	N	666	G	C2-N3-C4	7.00	115.40	111.90
1	N	1062	U	C3'-C2'-C1'	7.00	107.10	101.50
1	N	1282	C	C2-N1-C1'	7.00	126.50	118.80
1	N	50	A	C6-C5-N7	-6.99	127.41	132.30
1	N	1359	C	N3-C2-O2	6.99	126.80	121.90
1	N	1426	G	C5-N7-C8	-6.99	100.80	104.30
1	N	571	U	O4'-C1'-N1	6.99	113.79	108.20
1	N	59	A	C8-N9-C4	-6.99	103.00	105.80
1	N	800	G	N3-C2-N2	6.99	124.79	119.90
1	N	841	C	C5-C4-N4	-6.99	115.31	120.20
1	N	1251	A	C5-C6-N1	-6.99	114.21	117.70
1	N	125	U	C2-N1-C1'	6.99	126.08	117.70
1	N	179	A	P-O5'-C5'	6.99	132.08	120.90
1	N	204	G	C5-N7-C8	6.99	107.79	104.30
1	N	501	C	P-O3'-C3'	-6.99	111.32	119.70
1	N	1308	U	C4-C5-C6	6.99	123.89	119.70
1	N	1448	C	C2-N3-C4	6.99	123.39	119.90
1	N	222	C	C2-N3-C4	6.98	123.39	119.90
1	N	566	G	C8-N9-C4	6.98	109.19	106.40
1	N	650	G	P-O3'-C3'	6.98	128.08	119.70
1	N	668	G	N3-C4-C5	6.98	132.09	128.60
1	N	1260	G	N9-C4-C5	-6.98	102.61	105.40
1	N	1514	G	C8-N9-C4	-6.98	103.61	106.40
1	N	111	G	N1-C6-O6	6.98	124.09	119.90
1	N	607	A	C8-N9-C4	-6.98	103.01	105.80
1	N	848	C	O4'-C1'-N1	6.98	113.78	108.20
1	N	937	A	C4-C5-C6	6.98	120.49	117.00
1	N	1181	G	C4-C5-C6	6.98	122.99	118.80
1	N	674	G	C5-C6-N1	-6.98	108.01	111.50
1	N	1226	C	C5-C6-N1	-6.98	117.51	121.00
1	N	101	A	C6-N1-C2	-6.97	114.42	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	936	C	C5'-C4'-O4'	6.97	117.47	109.10
1	N	52	C	C6-N1-C2	-6.97	117.51	120.30
1	N	258	G	C8-N9-C4	6.97	109.19	106.40
1	N	350	G	P-O3'-C3'	-6.97	111.33	119.70
1	N	1422	G	N9-C1'-C2'	-6.97	104.33	112.00
1	N	1291	U	O4'-C1'-N1	6.97	113.78	108.20
1	N	66	A	P-O3'-C3'	6.97	128.06	119.70
1	N	423	G	C5-C6-O6	-6.97	124.42	128.60
1	N	428	G	C5-C6-O6	6.97	132.78	128.60
1	N	1333	A	N1-C6-N6	6.97	122.78	118.60
1	N	1512	U	C2-N3-C4	6.97	131.18	127.00
1	N	928	G	N1-C6-O6	6.97	124.08	119.90
1	N	1486	G	N1-C2-N3	-6.97	119.72	123.90
1	N	516	U	C5-C6-N1	6.96	126.18	122.70
1	N	730	G	C4-C5-N7	6.96	113.59	110.80
1	N	931	C	C3'-C2'-C1'	6.96	107.07	101.50
1	N	1050	G	C4-C5-C6	6.96	122.98	118.80
1	N	1276	G	C5-C6-O6	-6.96	124.42	128.60
1	N	1484	C	N3-C4-N4	6.96	122.88	118.00
1	N	466	A	C5-C6-N1	-6.96	114.22	117.70
1	N	619	U	C5-C6-N1	6.96	126.18	122.70
1	N	1017	U	O4'-C1'-N1	6.96	113.77	108.20
1	N	112	G	O4'-C4'-C3'	-6.96	97.04	104.00
1	N	599	C	N1-C2-N3	-6.96	114.33	119.20
1	N	714	G	C5'-C4'-C3'	-6.96	104.86	116.00
1	N	1453	G	C5'-C4'-O4'	-6.96	100.75	109.10
1	N	1479	C	N3-C4-C5	-6.96	119.12	121.90
1	N	1529	G	N1-C2-N3	-6.96	119.72	123.90
1	N	399	G	C6-C5-N7	-6.96	126.23	130.40
1	N	521	G	N9-C4-C5	-6.96	102.62	105.40
1	N	946	A	N9-C4-C5	-6.96	103.02	105.80
1	N	1019	A	P-O5'-C5'	6.96	132.03	120.90
1	N	1333	A	P-O5'-C5'	6.96	132.03	120.90
1	N	494	G	C3'-C2'-C1'	6.96	107.06	101.50
1	N	178	C	N3-C4-C5	-6.95	119.12	121.90
1	N	710	G	C5-C6-N1	-6.95	108.02	111.50
1	N	890	G	N3-C2-N2	6.95	124.77	119.90
1	N	305	G	C6-N1-C2	6.95	129.27	125.10
1	N	1338	G	P-O3'-C3'	6.95	128.04	119.70
1	N	115	G	N3-C2-N2	6.95	124.77	119.90
1	N	357	G	P-O3'-C3'	-6.95	111.36	119.70
1	N	606	G	C4-C5-C6	6.95	122.97	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	612	C	C6-N1-C2	6.95	123.08	120.30
1	N	887	G	N1-C2-N3	-6.95	119.73	123.90
1	N	391	G	C2-N3-C4	6.95	115.37	111.90
1	N	404	G	C5-C6-O6	-6.95	124.43	128.60
1	N	443	C	N1-C1'-C2'	-6.95	104.36	112.00
1	N	946	A	C5-N7-C8	6.95	107.38	103.90
1	N	1376	U	O4'-C1'-N1	6.95	113.76	108.20
1	N	1468	A	P-O3'-C3'	6.95	128.04	119.70
1	N	79	G	P-O3'-C3'	6.95	128.04	119.70
1	N	798	U	C2-N1-C1'	6.95	126.04	117.70
1	N	236	A	C5-C6-N6	-6.95	118.14	123.70
1	N	1059	C	C5-C4-N4	-6.95	115.34	120.20
1	N	1069	C	N3-C2-O2	6.95	126.76	121.90
1	N	1226	C	C6-N1-C1'	-6.95	112.47	120.80
1	N	722	G	C2-N3-C4	6.94	115.37	111.90
1	N	832	G	C8-N9-C4	6.94	109.18	106.40
1	N	157	U	C2-N3-C4	-6.94	122.83	127.00
1	N	529	G	C2-N3-C4	6.94	115.37	111.90
1	N	1375	A	N9-C4-C5	-6.94	103.02	105.80
1	N	324	G	C8-N9-C4	-6.94	103.62	106.40
1	N	505	G	N1-C2-N3	-6.94	119.74	123.90
1	N	1184	G	C4-C5-C6	6.94	122.97	118.80
1	N	1343	G	N1-C6-O6	6.94	124.06	119.90
1	N	1439	G	N3-C4-N9	6.94	130.16	126.00
1	N	164	G	C2-N3-C4	6.94	115.37	111.90
1	N	1111	A	C4-C5-C6	6.94	120.47	117.00
1	N	1339	A	N9-C4-C5	6.94	108.58	105.80
1	N	123	U	N3-C4-C5	-6.94	110.44	114.60
1	N	146	G	C6-N1-C2	-6.94	120.94	125.10
1	N	193	C	N3-C4-N4	6.94	122.86	118.00
1	N	425	G	C4-N9-C1'	-6.94	117.48	126.50
1	N	481	G	C4-C5-N7	6.94	113.58	110.80
1	N	773	G	C5-C6-N1	-6.94	108.03	111.50
1	N	321	A	O4'-C1'-N9	6.93	113.75	108.20
1	N	540	G	C5'-C4'-O4'	-6.93	100.78	109.10
1	N	802	A	C4-C5-C6	6.93	120.47	117.00
1	N	827	U	C5-C4-O4	6.93	130.06	125.90
1	N	7	A	O4'-C1'-N9	6.93	113.75	108.20
1	N	506	G	C5-C6-O6	-6.93	124.44	128.60
1	N	892	A	N9-C4-C5	-6.93	103.03	105.80
1	N	1055	A	C8-N9-C4	6.93	108.57	105.80
1	N	292	G	N1-C2-N3	-6.93	119.74	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	467	U	O4'-C1'-N1	6.93	113.75	108.20
1	N	187	G	N1-C6-O6	6.93	124.06	119.90
1	N	299	G	C5'-C4'-C3'	6.93	127.09	116.00
1	N	422	C	C5-C4-N4	-6.93	115.35	120.20
1	N	668	G	N1-C2-N2	6.93	122.44	116.20
1	N	894	G	C2-N3-C4	6.93	115.36	111.90
1	N	1102	A	C2-N3-C4	-6.93	107.14	110.60
1	N	290	C	O4'-C1'-N1	6.93	113.74	108.20
1	N	523	A	C5-C6-N6	-6.93	118.16	123.70
1	N	283	U	O4'-C1'-N1	6.93	113.74	108.20
1	N	59	A	P-O3'-C3'	6.92	128.01	119.70
1	N	866	C	N3-C4-C5	-6.92	119.13	121.90
1	N	1271	A	N1-C6-N6	6.92	122.75	118.60
1	N	143	A	O4'-C1'-N9	6.92	113.74	108.20
1	N	376	G	N3-C2-N2	6.92	124.75	119.90
1	N	582	C	N3-C4-C5	-6.92	119.13	121.90
1	N	1160	G	N9-C4-C5	6.92	108.17	105.40
1	N	1177	G	N3-C2-N2	6.92	124.75	119.90
1	N	310	G	C4-C5-N7	-6.92	108.03	110.80
1	N	316	C	C1'-O4'-C4'	-6.92	104.36	109.90
1	N	597	G	C8-N9-C4	-6.92	103.63	106.40
1	N	737	C	C6-N1-C1'	-6.92	112.50	120.80
1	N	498	A	N7-C8-N9	-6.92	110.34	113.80
1	N	781	A	C2-N3-C4	-6.92	107.14	110.60
1	N	536	C	C4-C5-C6	-6.92	113.94	117.40
1	N	579	A	C5-C6-N6	-6.92	118.17	123.70
1	N	970	C	N3-C4-N4	6.92	122.84	118.00
1	N	1225	A	N1-C2-N3	6.92	132.76	129.30
1	N	1245	C	C6-N1-C1'	-6.92	112.50	120.80
1	N	857	C	C5-C6-N1	6.92	124.46	121.00
1	N	1251	A	C4-C5-C6	6.92	120.46	117.00
1	N	1322	C	C2-N3-C4	6.92	123.36	119.90
1	N	1106	G	N1-C6-O6	6.91	124.05	119.90
1	N	462	G	C5-C6-N1	-6.91	108.04	111.50
1	N	788	U	C4-C5-C6	6.91	123.85	119.70
1	N	1197	A	C6-C5-N7	-6.91	127.46	132.30
1	N	229	U	C6-N1-C2	-6.91	116.85	121.00
1	N	453	G	C4-C5-C6	6.91	122.95	118.80
1	N	559	A	N1-C2-N3	6.91	132.75	129.30
1	N	901	A	C5-C6-N1	-6.91	114.25	117.70
1	N	975	A	C1'-O4'-C4'	-6.91	104.37	109.90
1	N	841	C	C5-C6-N1	-6.91	117.55	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	8	A	C5-N7-C8	6.91	107.35	103.90
1	N	79	G	C8-N9-C4	6.91	109.16	106.40
1	N	689	C	C2-N1-C1'	6.91	126.39	118.80
1	N	775	G	C1'-O4'-C4'	6.91	115.42	109.90
1	N	1208	C	N3-C4-C5	-6.91	119.14	121.90
1	N	1417	G	C4-C5-C6	6.90	122.94	118.80
1	N	1030	U	C2-N3-C4	6.90	131.14	127.00
1	N	95	C	C4-C5-C6	6.90	120.85	117.40
1	N	488	C	P-O3'-C3'	6.90	127.98	119.70
1	N	618	C	C5-C4-N4	-6.90	115.37	120.20
1	N	989	U	N1-C2-N3	-6.90	110.76	114.90
1	N	1030	U	C6-N1-C2	-6.90	116.86	121.00
1	N	263	A	O4'-C1'-N9	6.90	113.72	108.20
1	N	691	G	C2-N3-C4	6.90	115.35	111.90
1	N	40	C	C2-N3-C4	6.89	123.35	119.90
1	N	221	C	C6-N1-C2	-6.89	117.54	120.30
1	N	276	G	N7-C8-N9	6.89	116.55	113.10
1	N	317	U	N1-C2-O2	-6.89	117.97	122.80
1	N	468	A	N1-C6-N6	6.89	122.74	118.60
1	N	708	C	OP1-P-OP2	-6.89	109.26	119.60
1	N	971	G	C4-N9-C1'	-6.89	117.54	126.50
1	N	1154	G	C4'-C3'-C2'	-6.89	95.70	102.60
1	N	324	G	C4-C5-C6	6.89	122.94	118.80
1	N	574	A	N1-C2-N3	6.89	132.75	129.30
1	N	768	A	C5-N7-C8	6.89	107.35	103.90
1	N	1161	C	C4-C5-C6	6.89	120.85	117.40
1	N	125	U	C6-N1-C2	-6.89	116.86	121.00
1	N	1062	U	C4'-C3'-C2'	-6.89	95.71	102.60
1	N	1507	A	C2-N3-C4	-6.89	107.15	110.60
1	N	567	G	N1-C2-N3	-6.89	119.77	123.90
1	N	616	G	C4'-C3'-C2'	-6.89	95.71	102.60
1	N	608	A	N1-C6-N6	6.89	122.73	118.60
1	N	642	A	O4'-C1'-N9	6.89	113.71	108.20
1	N	928	G	O4'-C1'-N9	6.89	113.71	108.20
1	N	594	U	P-O3'-C3'	6.89	127.96	119.70
1	N	617	G	C4-C5-N7	-6.89	108.05	110.80
1	N	193	C	C2-N1-C1'	6.88	126.37	118.80
1	N	821	G	C5-N7-C8	-6.88	100.86	104.30
1	N	1056	U	N3-C4-C5	-6.88	110.47	114.60
1	N	1181	G	O4'-C1'-N9	6.88	113.71	108.20
1	N	990	C	O4'-C1'-N1	6.88	113.71	108.20
1	N	1364	U	N1-C2-O2	6.88	127.62	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	426	U	N3-C4-O4	6.88	124.22	119.40
1	N	763	G	N3-C2-N2	6.88	124.72	119.90
1	N	906	A	N9-C4-C5	6.88	108.55	105.80
1	N	243	A	P-O3'-C3'	6.88	127.95	119.70
1	N	275	G	O4'-C1'-N9	6.88	113.70	108.20
1	N	348	G	C6-C5-N7	-6.88	126.27	130.40
1	N	741	G	C6-C5-N7	-6.88	126.27	130.40
1	N	1276	G	P-O5'-C5'	6.88	131.90	120.90
1	N	1429	A	P-O3'-C3'	6.88	127.95	119.70
1	N	1520	C	O4'-C1'-N1	6.88	113.70	108.20
1	N	623	C	N3-C4-N4	6.88	122.81	118.00
1	N	883	C	N3-C4-N4	6.88	122.81	118.00
1	N	1046	A	C4'-C3'-C2'	-6.88	95.72	102.60
1	N	148	G	N1-C2-N3	-6.87	119.78	123.90
1	N	284	C	O5'-P-OP2	-6.87	99.51	105.70
1	N	435	A	C4-C5-C6	6.87	120.44	117.00
1	N	136	C	C2-N1-C1'	6.87	126.36	118.80
1	N	890	G	O4'-C1'-C2'	-6.87	98.93	105.80
1	N	75	G	C4-C5-N7	6.87	113.55	110.80
1	N	163	C	O4'-C1'-N1	6.87	113.69	108.20
1	N	308	C	C5-C4-N4	-6.87	115.39	120.20
1	N	426	U	O4'-C1'-N1	6.87	113.69	108.20
1	N	773	G	N3-C2-N2	6.87	124.71	119.90
1	N	804	U	N1-C2-N3	6.87	119.02	114.90
1	N	1143	G	N7-C8-N9	6.87	116.53	113.10
1	N	1242	G	C6-N1-C2	6.87	129.22	125.10
1	N	174	A	N3-C4-C5	-6.87	121.99	126.80
1	N	1170	A	C6-C5-N7	-6.87	127.49	132.30
1	N	292	G	C2-N3-C4	6.87	115.33	111.90
1	N	644	U	C5-C4-O4	6.87	130.02	125.90
1	N	761	G	N9-C4-C5	-6.87	102.65	105.40
1	N	1387	G	C4-C5-N7	6.87	113.55	110.80
1	N	1428	A	N1-C2-N3	6.87	132.73	129.30
1	N	289	G	C5-C6-N1	-6.86	108.07	111.50
1	N	584	G	C5-N7-C8	6.86	107.73	104.30
1	N	837	U	O4'-C1'-N1	6.86	113.69	108.20
1	N	967	C	C2-N3-C4	6.86	123.33	119.90
1	N	1164	G	N7-C8-N9	6.86	116.53	113.10
1	N	1172	C	C5-C4-N4	-6.86	115.40	120.20
1	N	1242	G	N3-C4-C5	-6.86	125.17	128.60
1	N	1031	C	C6-N1-C1'	-6.86	112.57	120.80
1	N	1259	C	N3-C4-C5	-6.86	119.16	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1330	U	O4'-C1'-N1	6.86	113.69	108.20
1	N	863	U	O4'-C1'-N1	6.86	113.69	108.20
1	N	1140	C	O4'-C1'-N1	6.86	113.69	108.20
1	N	1182	G	C2-N3-C4	-6.86	108.47	111.90
1	N	186	C	C4-C5-C6	6.86	120.83	117.40
1	N	415	A	O4'-C1'-N9	6.86	113.68	108.20
1	N	988	G	O4'-C1'-N9	6.86	113.69	108.20
1	N	701	U	N1-C2-N3	-6.85	110.79	114.90
1	N	145	G	C4-C5-C6	6.85	122.91	118.80
1	N	419	C	C2-N3-C4	-6.85	116.47	119.90
1	N	979	C	O4'-C1'-N1	6.85	113.68	108.20
1	N	189	A	C4-C5-C6	6.85	120.42	117.00
1	N	648	A	P-O3'-C3'	6.85	127.92	119.70
1	N	1513	A	C5-N7-C8	6.85	107.33	103.90
1	N	883	C	O4'-C1'-N1	6.85	113.68	108.20
1	N	1528	U	C6-N1-C1'	-6.85	111.61	121.20
1	N	589	U	C5-C4-O4	-6.85	121.79	125.90
1	N	652	U	N3-C2-O2	-6.84	117.41	122.20
1	N	899	C	N1-C2-N3	6.84	123.99	119.20
1	N	1111	A	C4-C5-N7	-6.84	107.28	110.70
1	N	34	C	N3-C4-N4	6.84	122.79	118.00
1	N	150	U	O4'-C1'-N1	6.84	113.67	108.20
1	N	428	G	C5'-C4'-O4'	-6.84	100.89	109.10
1	N	1014	A	C8-N9-C4	-6.84	103.06	105.80
1	N	1033	G	N7-C8-N9	6.84	116.52	113.10
1	N	1349	A	O4'-C1'-N9	6.84	113.67	108.20
1	N	1513	A	C8-N9-C4	-6.84	103.06	105.80
1	N	49	U	C1'-O4'-C4'	6.84	115.37	109.90
1	N	95	C	P-O5'-C5'	-6.84	109.96	120.90
1	N	148	G	C5-C6-O6	-6.84	124.50	128.60
1	N	526	C	C6-N1-C2	-6.84	117.57	120.30
1	N	1245	C	O4'-C1'-N1	6.84	113.67	108.20
1	N	17	U	C3'-C2'-C1'	6.83	106.97	101.50
1	N	201	G	C3'-C2'-C1'	6.83	106.97	101.50
1	N	294	U	N1-C2-N3	-6.83	110.80	114.90
1	N	466	A	C4-C5-C6	6.83	120.42	117.00
1	N	361	G	C6-C5-N7	-6.83	126.30	130.40
1	N	887	G	O4'-C1'-N9	6.83	113.67	108.20
1	N	1348	U	N1-C1'-C2'	-6.83	104.49	112.00
1	N	671	G	C5-N7-C8	-6.83	100.89	104.30
1	N	1531	A	P-O3'-C3'	6.83	127.90	119.70
1	N	141	G	C5-N7-C8	-6.83	100.89	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	902	G	C5-C6-O6	-6.83	124.50	128.60
1	N	1003	G	C4-C5-N7	6.83	113.53	110.80
1	N	1107	C	N3-C4-N4	6.83	122.78	118.00
1	N	1142	G	N3-C4-N9	6.83	130.10	126.00
1	N	1242	G	N7-C8-N9	6.83	116.52	113.10
1	N	570	G	N1-C6-O6	6.83	124.00	119.90
1	N	750	C	P-O5'-C5'	6.83	131.82	120.90
1	N	840	C	C6-N1-C1'	-6.83	112.61	120.80
1	N	185	U	N3-C4-O4	6.82	124.18	119.40
1	N	319	G	C3'-C2'-C1'	6.82	106.96	101.50
1	N	413	G	C4-C5-C6	6.82	122.89	118.80
1	N	1113	C	C2-N3-C4	6.82	123.31	119.90
1	N	602	A	P-O3'-C3'	-6.82	111.51	119.70
1	N	676	A	O4'-C1'-N9	6.82	113.66	108.20
1	N	572	A	C5-C6-N6	-6.82	118.24	123.70
1	N	646	G	C6-N1-C2	6.82	129.19	125.10
1	N	1416	G	C2-N3-C4	-6.82	108.49	111.90
1	N	264	C	N3-C4-C5	-6.82	119.17	121.90
1	N	786	G	C8-N9-C4	-6.82	103.67	106.40
1	N	1167	A	N3-C4-C5	-6.82	122.03	126.80
1	N	32	A	C8-N9-C4	-6.82	103.07	105.80
1	N	258	G	C5'-C4'-O4'	6.82	117.28	109.10
1	N	337	G	O4'-C1'-N9	6.82	113.65	108.20
1	N	540	G	N3-C2-N2	6.82	124.67	119.90
1	N	1114	C	C2-N1-C1'	6.82	126.30	118.80
1	N	1187	G	N7-C8-N9	6.82	116.51	113.10
1	N	1284	C	N3-C4-N4	6.82	122.77	118.00
1	N	1362	A	C4'-C3'-C2'	-6.82	95.78	102.60
1	N	429	U	P-O3'-C3'	6.81	127.88	119.70
1	N	72	A	C4-C5-N7	6.81	114.11	110.70
1	N	461	A	C6-N1-C2	6.81	122.69	118.60
1	N	877	G	C4-C5-N7	6.81	113.53	110.80
1	N	1492	A	N1-C2-N3	6.81	132.71	129.30
1	N	83	C	C4-C5-C6	6.81	120.81	117.40
1	N	278	G	N1-C6-O6	6.81	123.99	119.90
1	N	294	U	N3-C4-C5	-6.81	110.51	114.60
1	N	384	G	O4'-C1'-N9	6.81	113.65	108.20
1	N	820	U	C6-N1-C2	-6.81	116.91	121.00
1	N	974	A	N1-C6-N6	6.81	122.69	118.60
1	N	1117	A	C6-C5-N7	-6.81	127.53	132.30
1	N	1445	U	N3-C4-O4	6.81	124.17	119.40
1	N	255	G	C8-N9-C4	-6.81	103.68	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1227	A	N1-C2-N3	6.81	132.70	129.30
1	N	80	A	C5-C6-N6	-6.81	118.26	123.70
1	N	781	A	N1-C2-N3	6.81	132.70	129.30
1	N	1447	A	P-O3'-C3'	6.81	127.87	119.70
1	N	21	G	P-O3'-C3'	-6.80	111.53	119.70
1	N	519	C	N3-C4-C5	-6.80	119.18	121.90
1	N	545	C	O4'-C1'-N1	6.80	113.64	108.20
1	N	1177	G	C5-C6-O6	-6.80	124.52	128.60
1	N	1455	G	C6-C5-N7	-6.80	126.32	130.40
1	N	277	C	O4'-C1'-N1	6.80	113.64	108.20
1	N	585	G	O4'-C1'-N9	6.80	113.64	108.20
1	N	652	U	P-O5'-C5'	6.80	131.78	120.90
1	N	708	C	C6-N1-C2	-6.80	117.58	120.30
1	N	1250	A	N1-C6-N6	6.80	122.68	118.60
1	N	468	A	N3-C4-N9	6.80	132.84	127.40
1	N	736	C	P-O3'-C3'	6.80	127.86	119.70
1	N	910	C	C5-C6-N1	6.80	124.40	121.00
1	N	991	U	C3'-C2'-C1'	6.80	106.94	101.50
1	N	1002	G	P-O3'-C3'	-6.80	111.54	119.70
1	N	1192	C	O4'-C1'-N1	6.80	113.64	108.20
1	N	11	G	C4'-C3'-C2'	-6.80	95.80	102.60
1	N	1306	A	P-O5'-C5'	6.80	131.77	120.90
1	N	1474	U	N3-C4-O4	6.79	124.16	119.40
1	N	1026	G	C5-C6-N1	-6.79	108.10	111.50
1	N	1069	C	N3-C4-N4	6.79	122.75	118.00
1	N	1266	G	O4'-C1'-N9	6.79	113.64	108.20
1	N	1272	G	C5-N7-C8	-6.79	100.90	104.30
1	N	1485	U	C6-N1-C2	-6.79	116.92	121.00
1	N	712	A	C4-C5-C6	6.79	120.40	117.00
1	N	973	G	C6-N1-C2	6.79	129.18	125.10
1	N	1237	C	C6-N1-C2	-6.79	117.58	120.30
1	N	1528	U	O4'-C1'-N1	6.79	113.63	108.20
1	N	126	G	O4'-C1'-N9	6.79	113.63	108.20
1	N	474	G	N3-C2-N2	6.79	124.65	119.90
1	N	764	C	C4-C5-C6	6.79	120.80	117.40
1	N	1066	C	C3'-C2'-C1'	6.79	106.93	101.50
1	N	1469	C	O4'-C1'-N1	6.79	113.63	108.20
1	N	197	A	C5-C6-N6	-6.79	118.27	123.70
1	N	536	C	C5'-C4'-O4'	-6.79	100.95	109.10
1	N	1155	A	C4-C5-C6	6.79	120.39	117.00
1	N	458	U	O4'-C1'-N1	6.79	113.63	108.20
1	N	635	A	C5'-C4'-C3'	6.79	126.86	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1086	U	C5'-C4'-O4'	6.79	117.25	109.10
1	N	1094	G	C2-N3-C4	6.79	115.29	111.90
1	N	1098	C	C4-C5-C6	6.79	120.79	117.40
1	N	1091	U	C2-N3-C4	6.79	131.07	127.00
1	N	874	G	C8-N9-C4	-6.78	103.69	106.40
1	N	722	G	N3-C4-C5	6.78	131.99	128.60
1	N	371	A	C4-C5-N7	-6.78	107.31	110.70
1	N	439	U	N3-C4-C5	-6.78	110.53	114.60
1	N	326	G	C6-C5-N7	-6.78	126.33	130.40
1	N	535	A	C4-C5-C6	6.78	120.39	117.00
1	N	728	A	C5-N7-C8	6.78	107.29	103.90
1	N	1364	U	C5-C6-N1	6.78	126.09	122.70
1	N	280	C	N3-C4-N4	6.78	122.74	118.00
1	N	647	C	O4'-C1'-N1	6.78	113.62	108.20
1	N	933	G	N7-C8-N9	6.78	116.49	113.10
1	N	1408	A	N3-C4-C5	-6.78	122.06	126.80
1	N	22	G	N1-C6-O6	6.77	123.96	119.90
1	N	1091	U	O4'-C1'-N1	6.77	113.62	108.20
1	N	1152	A	N9-C4-C5	-6.77	103.09	105.80
1	N	197	A	C4-C5-N7	-6.77	107.31	110.70
1	N	510	A	N1-C2-N3	-6.77	125.92	129.30
1	N	607	A	C5'-C4'-O4'	6.77	117.22	109.10
1	N	1490	U	C3'-C2'-C1'	6.77	106.92	101.50
1	N	503	C	C2-N1-C1'	6.77	126.24	118.80
1	N	504	C	N3-C4-N4	6.77	122.74	118.00
1	N	1332	A	N1-C2-N3	6.77	132.68	129.30
1	N	105	G	C2-N3-C4	-6.76	108.52	111.90
1	N	412	A	C4-C5-C6	6.76	120.38	117.00
1	N	890	G	C4-C5-C6	6.76	122.86	118.80
1	N	1305	G	C6-C5-N7	-6.76	126.34	130.40
1	N	1319	A	C4-C5-C6	6.76	120.38	117.00
1	N	1315	U	N3-C4-C5	-6.76	110.54	114.60
1	N	943	U	N3-C4-O4	6.76	124.13	119.40
1	N	651	C	N1-C2-N3	-6.76	114.47	119.20
1	N	23	C	C5-C4-N4	-6.76	115.47	120.20
1	N	123	U	P-O3'-C3'	6.76	127.81	119.70
1	N	666	G	C5-C6-O6	-6.76	124.55	128.60
1	N	1347	G	C2-N3-C4	6.76	115.28	111.90
1	N	182	A	O4'-C1'-N9	6.76	113.61	108.20
1	N	246	A	N1-C2-N3	6.76	132.68	129.30
1	N	297	G	N3-C4-C5	-6.76	125.22	128.60
1	N	997	U	C5-C6-N1	6.76	126.08	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1002	G	O4'-C1'-N9	6.76	113.61	108.20
1	N	1102	A	C5-C6-N6	-6.76	118.30	123.70
1	N	1152	A	N1-C2-N3	6.76	132.68	129.30
1	N	1245	C	C2-N3-C4	-6.76	116.52	119.90
1	N	1369	C	N3-C4-N4	6.76	122.73	118.00
1	N	32	A	C2-N3-C4	-6.75	107.22	110.60
1	N	271	C	N3-C4-N4	6.75	122.73	118.00
1	N	450	G	N3-C4-C5	6.75	131.98	128.60
1	N	1021	A	C6-C5-N7	-6.75	127.57	132.30
1	N	251	G	C6-N1-C2	-6.75	121.05	125.10
1	N	967	C	N1-C2-N3	-6.75	114.47	119.20
1	N	1025	U	P-O5'-C5'	6.75	131.70	120.90
1	N	1401	G	N3-C2-N2	6.75	124.63	119.90
1	N	69	G	N3-C2-N2	6.75	124.62	119.90
1	N	1022	A	C8-N9-C4	6.75	108.50	105.80
1	N	1453	G	C2-N3-C4	-6.75	108.53	111.90
1	N	147	G	N9-C4-C5	6.75	108.10	105.40
1	N	847	G	N3-C4-C5	-6.75	125.22	128.60
1	N	1086	U	C5'-C4'-C3'	-6.75	105.20	116.00
1	N	1122	U	P-O5'-C5'	6.75	131.70	120.90
1	N	1353	G	C5-C6-O6	-6.75	124.55	128.60
1	N	235	C	N3-C4-N4	6.75	122.72	118.00
1	N	384	G	N1-C2-N2	6.75	122.27	116.20
1	N	699	C	N1-C2-O2	-6.75	114.85	118.90
1	N	838	G	C8-N9-C4	-6.75	103.70	106.40
1	N	87	C	C5'-C4'-C3'	-6.74	105.21	116.00
1	N	764	C	C4'-C3'-C2'	-6.74	95.86	102.60
1	N	1354	U	N3-C4-O4	6.74	124.12	119.40
1	N	783	C	N1-C2-O2	-6.74	114.86	118.90
1	N	240	G	C5-C6-O6	-6.74	124.56	128.60
1	N	671	G	N3-C2-N2	6.74	124.62	119.90
1	N	766	A	P-O3'-C3'	-6.74	111.61	119.70
1	N	1466	C	O4'-C1'-N1	6.74	113.59	108.20
1	N	405	U	O4'-C1'-N1	6.74	113.59	108.20
1	N	907	A	P-O3'-C3'	6.73	127.78	119.70
1	N	1013	G	C5-C6-N1	-6.73	108.13	111.50
1	N	1487	G	C5-C6-N1	-6.73	108.13	111.50
1	N	35	G	N1-C6-O6	6.73	123.94	119.90
1	N	94	G	N1-C2-N2	6.73	122.26	116.20
1	N	105	G	N3-C4-C5	6.73	131.97	128.60
1	N	501	C	C2-N3-C4	-6.73	116.53	119.90
1	N	1401	G	C4-C5-C6	6.73	122.84	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1503	A	C4-C5-C6	6.73	120.36	117.00
1	N	771	G	O4'-C1'-N9	6.73	113.58	108.20
1	N	347	G	C5-N7-C8	6.73	107.66	104.30
1	N	638	U	N3-C4-O4	6.73	124.11	119.40
1	N	775	G	C3'-C2'-C1'	6.73	106.88	101.50
1	N	873	A	P-O3'-C3'	-6.73	111.63	119.70
1	N	923	A	C4-C5-C6	6.73	120.36	117.00
1	N	1139	G	C5-C6-N1	-6.73	108.14	111.50
1	N	400	C	N3-C4-C5	-6.73	119.21	121.90
1	N	1048	G	C1'-O4'-C4'	6.73	115.28	109.90
1	N	1458	G	C5-C6-N1	-6.73	108.14	111.50
1	N	578	C	N1-C2-O2	-6.72	114.86	118.90
1	N	1415	G	N1-C2-N2	-6.72	110.15	116.20
1	N	425	G	C5-N7-C8	6.72	107.66	104.30
1	N	724	G	O4'-C1'-C2'	-6.72	99.08	105.80
1	N	238	A	C2-N3-C4	6.72	113.96	110.60
1	N	346	G	C8-N9-C1'	-6.72	118.26	127.00
1	N	1198	G	C4'-C3'-C2'	-6.72	95.88	102.60
1	N	453	G	C5-C6-O6	-6.72	124.57	128.60
1	N	877	G	N7-C8-N9	-6.72	109.74	113.10
1	N	879	C	N3-C4-N4	6.72	122.70	118.00
1	N	1093	A	C6-C5-N7	-6.72	127.60	132.30
1	N	1145	A	O4'-C1'-N9	6.72	113.58	108.20
1	N	1347	G	N3-C2-N2	6.72	124.60	119.90
1	N	557	G	P-O3'-C3'	6.72	127.76	119.70
1	N	650	G	N9-C4-C5	6.72	108.09	105.40
1	N	871	U	N3-C4-O4	6.72	124.10	119.40
1	N	579	A	P-O5'-C5'	6.72	131.65	120.90
1	N	584	G	C5-C6-O6	-6.72	124.57	128.60
1	N	506	G	C6-C5-N7	-6.71	126.37	130.40
1	N	718	A	C3'-C2'-C1'	6.71	106.87	101.50
1	N	783	C	C2-N3-C4	6.71	123.26	119.90
1	N	1166	G	C5-C6-O6	-6.71	124.57	128.60
1	N	1396	A	C5'-C4'-O4'	-6.71	101.04	109.10
1	N	406	G	N3-C4-N9	6.71	130.03	126.00
1	N	461	A	N9-C4-C5	-6.71	103.11	105.80
1	N	926	G	N9-C4-C5	-6.71	102.72	105.40
1	N	1324	A	P-O5'-C5'	6.71	131.64	120.90
1	N	204	G	C3'-C2'-C1'	-6.71	96.13	101.50
1	N	366	A	C4-C5-C6	6.71	120.36	117.00
1	N	1048	G	C5-C6-O6	-6.71	124.57	128.60
1	N	212	G	C5-C6-N1	-6.71	108.14	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	264	C	C4-C5-C6	6.71	120.75	117.40
1	N	299	G	N1-C2-N3	-6.71	119.88	123.90
1	N	586	C	C4-C5-C6	6.71	120.75	117.40
1	N	772	U	C2-N3-C4	-6.71	122.97	127.00
1	N	522	C	N3-C4-N4	6.71	122.69	118.00
1	N	917	G	N9-C4-C5	-6.71	102.72	105.40
1	N	1256	A	N3-C4-C5	-6.71	122.11	126.80
1	N	1064	G	N7-C8-N9	6.71	116.45	113.10
1	N	1119	C	N3-C4-N4	6.70	122.69	118.00
1	N	710	G	N3-C4-C5	6.70	131.95	128.60
1	N	501	C	C6-N1-C2	-6.70	117.62	120.30
1	N	768	A	C8-N9-C4	-6.70	103.12	105.80
1	N	829	G	O4'-C4'-C3'	-6.70	97.31	104.00
1	N	1024	G	C6-C5-N7	-6.70	126.38	130.40
1	N	1383	C	C5-C6-N1	6.70	124.35	121.00
1	N	974	A	C5-C6-N1	-6.69	114.35	117.70
1	N	1077	G	C8-N9-C1'	6.69	135.70	127.00
1	N	1407	C	N3-C2-O2	-6.69	117.21	121.90
1	N	468	A	P-O3'-C3'	6.69	127.73	119.70
1	N	1363	A	C6-C5-N7	-6.69	127.61	132.30
1	N	15	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	354	G	C4-C5-C6	6.69	122.81	118.80
1	N	357	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	573	A	N1-C6-N6	6.69	122.61	118.60
1	N	668	G	N7-C8-N9	-6.69	109.75	113.10
1	N	1170	A	C4-C5-N7	-6.69	107.35	110.70
1	N	1405	G	C6-C5-N7	-6.69	126.39	130.40
1	N	588	G	C6-C5-N7	-6.69	126.39	130.40
1	N	877	G	O4'-C1'-N9	6.69	113.55	108.20
1	N	614	C	C5-C4-N4	-6.69	115.52	120.20
1	N	995	C	C4'-C3'-C2'	-6.69	95.91	102.60
1	N	1094	G	N3-C2-N2	6.69	124.58	119.90
1	N	1357	A	C5-C6-N1	-6.69	114.36	117.70
1	N	1494	G	C4-C5-C6	6.69	122.81	118.80
1	N	1026	G	C5-C6-O6	-6.68	124.59	128.60
1	N	467	U	C5-C6-N1	6.68	126.04	122.70
1	N	650	G	N3-C4-C5	-6.68	125.26	128.60
1	N	1074	G	N9-C4-C5	-6.68	102.73	105.40
1	N	1159	U	C5-C4-O4	-6.68	121.89	125.90
1	N	1517	G	C6-C5-N7	-6.68	126.39	130.40
1	N	1461	G	O4'-C1'-N9	6.68	113.55	108.20
1	N	872	A	O4'-C1'-N9	6.68	113.54	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	291	U	C5'-C4'-O4'	6.68	117.11	109.10
1	N	514	C	N3-C4-N4	6.68	122.67	118.00
1	N	220	G	C5'-C4'-O4'	6.68	117.11	109.10
1	N	1475	G	N3-C4-N9	-6.68	121.99	126.00
1	N	523	A	C2-N3-C4	-6.67	107.26	110.60
1	N	682	G	C5-C6-O6	-6.67	124.59	128.60
1	N	829	G	C8-N9-C4	-6.67	103.73	106.40
1	N	978	A	C5-N7-C8	6.67	107.24	103.90
1	N	1139	G	C4-C5-C6	6.67	122.81	118.80
1	N	1506	U	P-O3'-C3'	6.67	127.71	119.70
1	N	765	G	C6-C5-N7	-6.67	126.40	130.40
1	N	292	G	C5-C6-N1	-6.67	108.16	111.50
1	N	82	G	C5-C6-O6	-6.67	124.60	128.60
1	N	501	C	O4'-C1'-N1	6.67	113.53	108.20
1	N	322	C	C1'-O4'-C4'	-6.67	104.57	109.90
1	N	1222	G	N3-C2-N2	6.67	124.57	119.90
1	N	1273	C	C6-N1-C2	-6.67	117.63	120.30
1	N	154	U	O4'-C1'-N1	6.67	113.53	108.20
1	N	805	C	C5-C4-N4	6.67	124.87	120.20
1	N	969	A	C5'-C4'-C3'	-6.67	105.33	116.00
1	N	36	C	C5-C4-N4	-6.66	115.53	120.20
1	N	83	C	O4'-C4'-C3'	-6.66	97.34	104.00
1	N	249	U	C5-C6-N1	6.66	126.03	122.70
1	N	561	U	C2-N3-C4	-6.66	123.00	127.00
1	N	643	C	O4'-C1'-N1	6.66	113.53	108.20
1	N	1160	G	N1-C6-O6	6.66	123.90	119.90
1	N	1448	C	N1-C2-N3	-6.66	114.53	119.20
1	N	61	G	C2-N3-C4	-6.66	108.57	111.90
1	N	271	C	C5-C4-N4	-6.66	115.54	120.20
1	N	337	G	N1-C2-N3	-6.66	119.90	123.90
1	N	879	C	C6-N1-C2	-6.66	117.64	120.30
1	N	1069	C	C2-N1-C1'	-6.66	111.47	118.80
1	N	1314	C	P-O3'-C3'	-6.66	111.71	119.70
1	N	1181	G	C3'-C2'-C1'	6.66	106.83	101.50
1	N	523	A	N9-C4-C5	-6.66	103.14	105.80
1	N	959	A	O4'-C1'-N9	6.66	113.53	108.20
1	N	944	G	C5'-C4'-C3'	6.66	126.65	116.00
1	N	1069	C	C4-C5-C6	6.66	120.73	117.40
1	N	70	U	C2'-C3'-O3'	6.65	124.35	113.70
1	N	115	G	P-O3'-C3'	6.65	127.68	119.70
1	N	546	A	C2-N3-C4	-6.65	107.27	110.60
1	N	548	G	C5-C6-N1	6.65	114.83	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	584	G	C5-C6-N1	-6.65	108.17	111.50
1	N	886	G	N1-C2-N3	-6.65	119.91	123.90
1	N	1228	C	O5'-P-OP2	6.65	118.69	110.70
1	N	28	A	C8-N9-C4	-6.65	103.14	105.80
1	N	351	G	C4-C5-N7	6.65	113.46	110.80
1	N	465	A	P-O3'-C3'	6.65	127.68	119.70
1	N	883	C	N1-C2-O2	6.65	122.89	118.90
1	N	111	G	C8-N9-C4	-6.65	103.74	106.40
1	N	792	A	N1-C2-N3	-6.65	125.97	129.30
1	N	867	G	O4'-C1'-N9	6.65	113.52	108.20
1	N	1050	G	C5-C6-O6	6.65	132.59	128.60
1	N	631	C	C6-N1-C1'	-6.65	112.82	120.80
1	N	1263	C	C5-C4-N4	-6.65	115.55	120.20
1	N	13	U	N3-C4-C5	-6.65	110.61	114.60
1	N	166	U	O4'-C1'-N1	6.65	113.52	108.20
1	N	300	A	C6-N1-C2	6.65	122.59	118.60
1	N	1117	A	P-O3'-C3'	6.65	127.68	119.70
1	N	1400	C	P-O3'-C3'	6.65	127.67	119.70
1	N	202	G	C5-N7-C8	-6.64	100.98	104.30
1	N	440	C	N1-C2-N3	6.64	123.85	119.20
1	N	582	C	OP1-P-OP2	-6.64	109.63	119.60
1	N	1383	C	N1-C2-N3	-6.64	114.55	119.20
1	N	478	A	C8-N9-C4	-6.64	103.14	105.80
1	N	522	C	O4'-C1'-N1	6.64	113.51	108.20
1	N	557	G	C1'-O4'-C4'	6.64	115.22	109.90
1	N	180	U	C4'-C3'-C2'	-6.64	95.96	102.60
1	N	609	A	C4-C5-C6	6.64	120.32	117.00
1	N	1335	U	C5-C6-N1	-6.64	119.38	122.70
1	N	1337	G	OP1-P-OP2	-6.64	109.64	119.60
1	N	186	C	O4'-C1'-N1	6.64	113.51	108.20
1	N	693	G	C3'-C2'-C1'	6.64	106.81	101.50
1	N	983	A	O4'-C1'-N9	6.64	113.51	108.20
1	N	1448	C	P-O5'-C5'	-6.64	110.28	120.90
1	N	48	C	N1-C2-O2	-6.64	114.92	118.90
1	N	329	A	C6-C5-N7	-6.64	127.65	132.30
1	N	404	G	C8-N9-C4	-6.64	103.75	106.40
1	N	791	G	C5-N7-C8	6.64	107.62	104.30
1	N	1113	C	N3-C4-C5	-6.64	119.25	121.90
1	N	691	G	C5-C6-N1	6.64	114.82	111.50
1	N	1273	C	O4'-C1'-N1	6.64	113.51	108.20
1	N	77	A	C2-N3-C4	-6.63	107.28	110.60
1	N	847	G	N3-C4-N9	6.63	129.98	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	979	C	N3-C2-O2	6.63	126.54	121.90
1	N	1379	G	P-O5'-C5'	-6.63	110.28	120.90
1	N	369	G	C5-C6-O6	-6.63	124.62	128.60
1	N	775	G	N3-C2-N2	6.63	124.54	119.90
1	N	895	G	N1-C2-N3	-6.63	119.92	123.90
1	N	114	U	O4'-C1'-N1	6.63	113.50	108.20
1	N	380	G	C5'-C4'-O4'	-6.63	101.14	109.10
1	N	841	C	O4'-C1'-N1	6.63	113.51	108.20
1	N	1442	G	C8-N9-C4	-6.63	103.75	106.40
1	N	158	G	C4-C5-N7	-6.63	108.15	110.80
1	N	293	G	N9-C4-C5	-6.63	102.75	105.40
1	N	313	A	N3-C4-C5	-6.63	122.16	126.80
1	N	301	G	N1-C2-N3	-6.63	119.92	123.90
1	N	325	A	C1'-O4'-C4'	-6.63	104.60	109.90
1	N	833	G	O4'-C1'-N9	6.63	113.50	108.20
1	N	865	A	C5-C6-N1	-6.63	114.39	117.70
1	N	1187	G	O4'-C1'-N9	6.63	113.50	108.20
1	N	1396	A	N3-C4-C5	6.63	131.44	126.80
1	N	78	A	C4-C5-C6	6.63	120.31	117.00
1	N	95	C	OP1-P-OP2	-6.63	109.66	119.60
1	N	1411	C	C6-N1-C2	6.63	122.95	120.30
1	N	1140	C	C6-N1-C2	6.62	122.95	120.30
1	N	1258	G	C3'-C2'-C1'	6.62	106.80	101.50
1	N	1316	G	P-O3'-C3'	6.62	127.65	119.70
1	N	1347	G	P-O3'-C3'	6.62	127.65	119.70
1	N	571	U	N3-C4-O4	6.62	124.04	119.40
1	N	1361	G	O3'-P-O5'	-6.62	91.42	104.00
1	N	178	C	C6-N1-C2	-6.62	117.65	120.30
1	N	1433	A	N1-C6-N6	6.62	122.57	118.60
1	N	1124	G	C6-C5-N7	-6.62	126.43	130.40
1	N	78	A	C4-C5-N7	6.62	114.01	110.70
1	N	541	G	C5-C6-O6	-6.62	124.63	128.60
1	N	725	G	C4-N9-C1'	-6.62	117.89	126.50
1	N	1269	A	N1-C2-N3	-6.62	125.99	129.30
1	N	1276	G	C2-N3-C4	-6.62	108.59	111.90
1	N	425	G	N3-C4-N9	-6.62	122.03	126.00
1	N	1334	G	C3'-C2'-C1'	6.62	106.79	101.50
1	N	6	G	C8-N9-C4	-6.62	103.75	106.40
1	N	374	A	C5-C6-N6	-6.62	118.41	123.70
1	N	549	C	P-O5'-C5'	6.62	131.49	120.90
1	N	1183	U	C5'-C4'-O4'	6.62	117.04	109.10
1	N	1294	G	C8-N9-C4	6.62	109.05	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1531	A	O4'-C1'-N9	6.62	113.49	108.20
1	N	193	C	C6-N1-C2	-6.61	117.66	120.30
1	N	296	U	N3-C4-O4	6.61	124.03	119.40
1	N	929	G	O4'-C1'-N9	6.61	113.49	108.20
1	N	1312	G	C5'-C4'-C3'	-6.61	105.42	116.00
1	N	1390	U	N3-C2-O2	6.61	126.83	122.20
1	N	1443	C	N3-C4-N4	6.61	122.63	118.00
1	N	500	G	N7-C8-N9	6.61	116.41	113.10
1	N	174	A	N3-C4-N9	6.61	132.69	127.40
1	N	698	G	N3-C2-N2	6.61	124.53	119.90
1	N	1323	G	C5-C6-O6	-6.61	124.63	128.60
1	N	22	G	C5-C6-O6	-6.61	124.63	128.60
1	N	54	C	C6-N1-C1'	-6.61	112.87	120.80
1	N	1386	G	N3-C4-N9	-6.61	122.03	126.00
1	N	598	U	P-O5'-C5'	6.61	131.47	120.90
1	N	986	U	N3-C4-O4	6.61	124.03	119.40
1	N	1316	G	N3-C2-N2	6.61	124.53	119.90
1	N	528	C	C2-N3-C4	6.61	123.20	119.90
1	N	765	G	N9-C4-C5	6.61	108.04	105.40
1	N	844	G	C4-C5-N7	-6.61	108.16	110.80
1	N	958	A	N9-C4-C5	6.61	108.44	105.80
1	N	312	C	N1-C2-O2	6.60	122.86	118.90
1	N	487	A	C5-C6-N6	-6.60	118.42	123.70
1	N	801	U	P-O5'-C5'	-6.60	110.33	120.90
1	N	38	G	C5-C6-O6	-6.60	124.64	128.60
1	N	249	U	O4'-C1'-N1	6.60	113.48	108.20
1	N	949	A	N1-C6-N6	6.60	122.56	118.60
1	N	1202	U	N1-C2-N3	-6.60	110.94	114.90
1	N	23	C	O4'-C4'-C3'	-6.60	97.40	104.00
1	N	554	A	C5-C6-N6	-6.60	118.42	123.70
1	N	609	A	C3'-C2'-C1'	6.60	106.78	101.50
1	N	818	G	P-O5'-C5'	-6.60	110.34	120.90
1	N	1091	U	N1-C2-N3	-6.60	110.94	114.90
1	N	347	G	O4'-C1'-N9	6.60	113.48	108.20
1	N	615	G	O4'-C1'-N9	6.60	113.48	108.20
1	N	1500	A	C5-C6-N6	-6.60	118.42	123.70
1	N	414	A	O4'-C1'-N9	6.60	113.48	108.20
1	N	894	G	N7-C8-N9	-6.60	109.80	113.10
1	N	976	G	C5-N7-C8	6.60	107.60	104.30
1	N	579	A	C5-C6-N1	-6.59	114.40	117.70
1	N	606	G	C5'-C4'-C3'	-6.59	105.45	116.00
1	N	650	G	C5-N7-C8	-6.59	101.00	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	934	C	N3-C2-O2	6.59	126.52	121.90
1	N	1268	G	O4'-C1'-N9	6.59	113.48	108.20
1	N	1339	A	C2-N3-C4	-6.59	107.30	110.60
1	N	1462	C	C2-N3-C4	6.59	123.20	119.90
1	N	123	U	C1'-O4'-C4'	6.59	115.17	109.90
1	N	227	G	O4'-C1'-N9	6.59	113.47	108.20
1	N	568	G	N1-C2-N3	-6.59	119.94	123.90
1	N	947	G	N1-C6-O6	6.59	123.86	119.90
1	N	1416	G	N3-C2-N2	6.59	124.52	119.90
1	N	766	A	N1-C2-N3	6.59	132.60	129.30
1	N	778	G	O4'-C1'-N9	6.59	113.47	108.20
1	N	1126	U	C2-N3-C4	-6.59	123.05	127.00
1	N	1388	C	N3-C2-O2	6.59	126.51	121.90
1	N	763	G	C5'-C4'-C3'	-6.59	105.46	116.00
1	N	1291	U	N3-C4-O4	6.59	124.01	119.40
1	N	1480	A	O4'-C1'-N9	6.59	113.47	108.20
1	N	101	A	C5'-C4'-O4'	6.59	117.01	109.10
1	N	162	A	C8-N9-C4	-6.59	103.17	105.80
1	N	529	G	N1-C2-N3	-6.59	119.95	123.90
1	N	959	A	N7-C8-N9	-6.59	110.51	113.80
1	N	1222	G	C4'-C3'-C2'	-6.59	96.01	102.60
1	N	325	A	P-O5'-C5'	-6.59	110.36	120.90
1	N	774	G	P-O5'-C5'	-6.59	110.36	120.90
1	N	1408	A	C5'-C4'-O4'	6.59	117.00	109.10
1	N	160	A	C4-N9-C1'	6.58	138.15	126.30
1	N	365	U	O4'-C1'-N1	6.58	113.47	108.20
1	N	200	G	N9-C1'-C2'	-6.58	104.76	112.00
1	N	600	A	C4-C5-N7	-6.58	107.41	110.70
1	N	945	G	C4-C5-C6	6.58	122.75	118.80
1	N	305	G	N9-C4-C5	-6.58	102.77	105.40
1	N	189	A	C6-N1-C2	6.58	122.55	118.60
1	N	336	A	O4'-C1'-N9	6.58	113.46	108.20
1	N	753	A	C2-N3-C4	-6.58	107.31	110.60
1	N	70	U	C5'-C4'-C3'	-6.58	105.48	116.00
1	N	282	A	C4-C5-C6	6.58	120.29	117.00
1	N	748	G	N7-C8-N9	6.58	116.39	113.10
1	N	1197	A	C3'-C2'-C1'	6.58	106.76	101.50
1	N	379	C	O4'-C1'-N1	6.58	113.46	108.20
1	N	438	U	C5'-C4'-O4'	6.58	116.99	109.10
1	N	1002	G	C6-N1-C2	6.58	129.04	125.10
1	N	394	G	C5-C6-O6	-6.57	124.66	128.60
1	N	832	G	C5'-C4'-C3'	-6.57	105.48	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	985	C	C2-N1-C1'	6.57	126.03	118.80
1	N	1134	G	N3-C2-N2	6.57	124.50	119.90
1	N	1187	G	N1-C2-N2	-6.57	110.28	116.20
1	N	1255	G	N1-C2-N3	-6.57	119.96	123.90
1	N	802	A	C6-C5-N7	-6.57	127.70	132.30
1	N	1004	A	C5-C6-N6	-6.57	118.44	123.70
1	N	1283	U	C3'-C2'-C1'	6.57	106.76	101.50
1	N	14	U	P-O5'-C5'	-6.57	110.39	120.90
1	N	246	A	C4'-C3'-C2'	6.57	109.17	102.60
1	N	768	A	N1-C2-N3	-6.57	126.02	129.30
1	N	926	G	O4'-C1'-N9	6.57	113.45	108.20
1	N	206	C	C5-C6-N1	6.57	124.28	121.00
1	N	743	A	C6-C5-N7	-6.56	127.70	132.30
1	N	1021	A	C3'-C2'-C1'	-6.56	96.25	101.50
1	N	1134	G	N7-C8-N9	6.56	116.38	113.10
1	N	1265	C	N3-C4-C5	-6.56	119.27	121.90
1	N	349	A	P-O3'-C3'	-6.56	111.83	119.70
1	N	541	G	O4'-C1'-N9	6.56	113.45	108.20
1	N	1023	U	C2-N1-C1'	6.56	125.58	117.70
1	N	1330	U	N3-C2-O2	6.56	126.79	122.20
1	N	1464	U	C6-N1-C2	-6.56	117.06	121.00
1	N	296	U	C3'-C2'-C1'	6.56	106.75	101.50
1	N	679	C	C5-C4-N4	-6.56	115.61	120.20
1	N	726	C	C5-C6-N1	6.56	124.28	121.00
1	N	342	C	N3-C4-C5	-6.56	119.28	121.90
1	N	606	G	C5'-C4'-O4'	6.56	116.97	109.10
1	N	69	G	N3-C4-C5	-6.56	125.32	128.60
1	N	250	A	O4'-C1'-N9	6.56	113.45	108.20
1	N	699	C	C2-N3-C4	-6.56	116.62	119.90
1	N	890	G	N9-C4-C5	6.56	108.02	105.40
1	N	1367	C	C2-N1-C1'	6.56	126.01	118.80
1	N	25	C	C6-N1-C1'	-6.56	112.93	120.80
1	N	1198	G	N9-C4-C5	6.56	108.02	105.40
1	N	291	U	C4-C5-C6	-6.55	115.77	119.70
1	N	606	G	C6-C5-N7	-6.55	126.47	130.40
1	N	271	C	C5'-C4'-O4'	6.55	116.96	109.10
1	N	760	G	P-O3'-C3'	-6.55	111.84	119.70
1	N	1071	C	C2-N3-C4	6.55	123.18	119.90
1	N	1073	U	C5-C4-O4	-6.55	121.97	125.90
1	N	1171	A	C2-N3-C4	6.55	113.88	110.60
1	N	1525	G	N7-C8-N9	6.55	116.38	113.10
1	N	248	C	N3-C4-N4	6.55	122.58	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	357	G	N3-C2-N2	6.55	124.48	119.90
1	N	645	G	O4'-C1'-N9	6.55	113.44	108.20
1	N	176	C	O4'-C1'-N1	6.55	113.44	108.20
1	N	574	A	C6-N1-C2	-6.55	114.67	118.60
1	N	653	U	O4'-C1'-N1	6.55	113.44	108.20
1	N	749	A	P-O3'-C3'	6.55	127.56	119.70
1	N	1150	A	O4'-C1'-N9	6.55	113.44	108.20
1	N	1159	U	C2-N1-C1'	6.55	125.56	117.70
1	N	1347	G	C4-C5-N7	-6.55	108.18	110.80
1	N	284	C	O4'-C1'-N1	6.55	113.44	108.20
1	N	502	A	C4-C5-N7	-6.55	107.43	110.70
1	N	691	G	C5-N7-C8	6.55	107.57	104.30
1	N	767	A	C5-C6-N6	-6.55	118.46	123.70
1	N	1110	A	N9-C4-C5	6.55	108.42	105.80
1	N	1144	G	C6-C5-N7	-6.55	126.47	130.40
1	N	1275	A	N7-C8-N9	-6.55	110.53	113.80
1	N	1361	G	N9-C1'-C2'	-6.55	104.80	112.00
1	N	99	C	C6-N1-C2	-6.54	117.68	120.30
1	N	196	A	C4-C5-N7	-6.54	107.43	110.70
1	N	843	U	C5'-C4'-O4'	6.54	116.95	109.10
1	N	44	A	C5-C6-N6	-6.54	118.47	123.70
1	N	1416	G	C8-N9-C4	6.54	109.02	106.40
1	N	611	C	N3-C4-N4	6.54	122.58	118.00
1	N	1014	A	C6-N1-C2	6.54	122.53	118.60
1	N	1225	A	C4-C5-C6	6.54	120.27	117.00
1	N	657	U	C2-N3-C4	-6.54	123.08	127.00
1	N	815	A	N3-C4-N9	6.54	132.63	127.40
1	N	160	A	N1-C2-N3	6.54	132.57	129.30
1	N	216	U	C6-N1-C2	-6.54	117.08	121.00
1	N	1132	C	N3-C4-N4	6.54	122.58	118.00
1	N	618	C	N1-C2-O2	6.54	122.82	118.90
1	N	1288	A	C6-N1-C2	6.54	122.52	118.60
1	N	635	A	P-O5'-C5'	-6.54	110.44	120.90
1	N	1010	U	C5-C4-O4	-6.54	121.98	125.90
1	N	1318	A	N1-C2-N3	6.54	132.57	129.30
1	N	1451	U	C2-N3-C4	-6.54	123.08	127.00
1	N	66	A	C1'-O4'-C4'	6.53	115.13	109.90
1	N	403	C	C6-N1-C2	-6.53	117.69	120.30
1	N	524	G	C5-C6-N1	-6.53	108.23	111.50
1	N	727	G	C5-C6-O6	-6.53	124.68	128.60
1	N	1123	U	P-O5'-C5'	6.53	131.35	120.90
1	N	1493	A	C5-N7-C8	6.53	107.17	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	344	A	O4'-C1'-N9	6.53	113.42	108.20
1	N	1181	G	C8-N9-C4	6.53	109.01	106.40
1	N	380	G	C4-N9-C1'	-6.53	118.01	126.50
1	N	776	G	C5-C6-O6	-6.53	124.68	128.60
1	N	794	A	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	1514	G	C1'-O4'-C4'	6.53	115.12	109.90
1	N	766	A	C8-N9-C4	-6.53	103.19	105.80
1	N	946	A	C4'-C3'-C2'	-6.53	96.07	102.60
1	N	243	A	O4'-C1'-N9	6.53	113.42	108.20
1	N	481	G	N3-C2-N2	6.53	124.47	119.90
1	N	1077	G	N7-C8-N9	6.53	116.36	113.10
1	N	1220	G	C5-C6-N1	-6.53	108.24	111.50
1	N	1373	G	N1-C6-O6	6.53	123.82	119.90
1	N	1405	G	P-O3'-C3'	-6.53	111.87	119.70
1	N	229	U	N3-C4-C5	-6.53	110.69	114.60
1	N	300	A	N1-C6-N6	6.53	122.52	118.60
1	N	1512	U	N3-C4-C5	-6.53	110.69	114.60
1	N	695	A	C5'-C4'-O4'	6.52	116.93	109.10
1	N	1469	C	O4'-C4'-C3'	6.52	111.32	106.10
1	N	28	A	O4'-C1'-N9	6.52	113.42	108.20
1	N	684	U	N3-C4-C5	-6.52	110.69	114.60
1	N	1113	C	N3-C4-N4	6.52	122.56	118.00
1	N	299	G	C5-C6-N1	-6.52	108.24	111.50
1	N	427	U	N3-C4-O4	6.52	123.96	119.40
1	N	639	G	N1-C2-N2	6.52	122.06	116.20
1	N	812	G	C4-C5-N7	6.52	113.41	110.80
1	N	1148	U	N3-C4-O4	6.52	123.96	119.40
1	N	719	C	N3-C4-N4	6.51	122.56	118.00
1	N	831	A	C6-C5-N7	-6.51	127.74	132.30
1	N	981	U	N3-C4-O4	6.51	123.96	119.40
1	N	462	G	C6-C5-N7	-6.51	126.49	130.40
1	N	660	C	N3-C2-O2	-6.51	117.34	121.90
1	N	1011	C	C5-C6-N1	-6.51	117.74	121.00
1	N	73	C	P-O5'-C5'	-6.51	110.48	120.90
1	N	82	G	N1-C2-N3	-6.51	119.99	123.90
1	N	120	A	N9-C1'-C2'	6.51	122.47	114.00
1	N	159	G	N7-C8-N9	6.51	116.36	113.10
1	N	180	U	C2-N1-C1'	-6.51	109.89	117.70
1	N	382	A	C5-N7-C8	6.51	107.16	103.90
1	N	548	G	P-O3'-C3'	-6.51	111.89	119.70
1	N	181	A	N7-C8-N9	-6.51	110.55	113.80
1	N	725	G	C6-C5-N7	-6.51	126.50	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	875	U	O4'-C1'-N1	6.51	113.41	108.20
1	N	909	A	C4-C5-C6	6.51	120.25	117.00
1	N	978	A	C8-N9-C4	-6.51	103.20	105.80
1	N	978	A	C4-C5-C6	6.51	120.25	117.00
1	N	1230	C	C5'-C4'-C3'	6.51	126.42	116.00
1	N	819	A	C6-C5-N7	-6.51	127.74	132.30
1	N	1020	G	C5-C6-N1	-6.51	108.25	111.50
1	N	257	G	C1'-O4'-C4'	6.51	115.10	109.90
1	N	832	G	N7-C8-N9	-6.51	109.85	113.10
1	N	474	G	C1'-O4'-C4'	6.50	115.10	109.90
1	N	906	A	C4'-C3'-C2'	-6.50	96.09	102.60
1	N	134	G	O4'-C4'-C3'	-6.50	97.50	104.00
1	N	269	C	O4'-C1'-N1	6.50	113.40	108.20
1	N	424	G	N1-C6-O6	6.50	123.80	119.90
1	N	583	A	O4'-C1'-N9	6.50	113.40	108.20
1	N	708	C	C5-C6-N1	6.50	124.25	121.00
1	N	1524	C	N3-C4-C5	-6.50	119.30	121.90
1	N	57	G	C6-C5-N7	-6.50	126.50	130.40
1	N	674	G	C5-C6-O6	-6.50	124.70	128.60
1	N	1252	A	C4'-C3'-C2'	-6.50	96.10	102.60
1	N	1440	U	OP1-P-OP2	-6.50	109.85	119.60
1	N	121	U	C5-C4-O4	-6.50	122.00	125.90
1	N	347	G	N1-C2-N3	-6.50	120.00	123.90
1	N	714	G	N3-C4-N9	-6.50	122.10	126.00
1	N	1290	G	N9-C4-C5	-6.50	102.80	105.40
1	N	1291	U	C5-C4-O4	-6.50	122.00	125.90
1	N	1334	G	P-O3'-C3'	6.50	127.50	119.70
1	N	188	C	C5-C4-N4	-6.50	115.65	120.20
1	N	561	U	N1-C2-O2	-6.50	118.25	122.80
1	N	987	G	C5-C6-O6	-6.50	124.70	128.60
1	N	90	C	C5-C6-N1	6.50	124.25	121.00
1	N	544	G	C5-N7-C8	-6.50	101.05	104.30
1	N	607	A	N7-C8-N9	6.50	117.05	113.80
1	N	1413	A	C3'-C2'-C1'	6.50	106.70	101.50
1	N	367	U	N3-C4-C5	-6.49	110.70	114.60
1	N	452	A	N7-C8-N9	-6.49	110.55	113.80
1	N	652	U	N3-C4-O4	6.49	123.95	119.40
1	N	1491	G	C3'-C2'-C1'	6.49	106.69	101.50
1	N	644	U	C4'-C3'-C2'	-6.49	96.11	102.60
1	N	1428	A	C8-N9-C4	-6.49	103.20	105.80
1	N	1475	G	N9-C4-C5	6.49	108.00	105.40
1	N	174	A	C4-C5-N7	-6.49	107.45	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	608	A	C5-C6-N6	-6.49	118.51	123.70
1	N	1368	A	N7-C8-N9	6.49	117.05	113.80
1	N	57	G	C6-N1-C2	6.49	128.99	125.10
1	N	457	G	C1'-O4'-C4'	-6.49	104.71	109.90
1	N	1101	A	N1-C6-N6	6.49	122.49	118.60
1	N	587	G	N3-C4-C5	-6.49	125.36	128.60
1	N	1511	G	C5'-C4'-C3'	-6.49	105.62	116.00
1	N	30	U	N1-C2-N3	-6.49	111.01	114.90
1	N	191	G	N3-C4-N9	-6.49	122.11	126.00
1	N	438	U	N3-C4-C5	6.49	118.49	114.60
1	N	1089	G	O4'-C1'-N9	6.49	113.39	108.20
1	N	1293	C	O4'-C1'-N1	6.49	113.39	108.20
1	N	868	C	C2-N3-C4	6.48	123.14	119.90
1	N	388	G	C6-C5-N7	-6.48	126.51	130.40
1	N	425	G	N1-C2-N3	-6.48	120.01	123.90
1	N	507	C	N1-C2-O2	6.48	122.79	118.90
1	N	557	G	N9-C4-C5	-6.48	102.81	105.40
1	N	1005	A	C4-C5-N7	-6.48	107.46	110.70
1	N	1167	A	N9-C4-C5	-6.48	103.21	105.80
1	N	1206	G	C4-N9-C1'	6.48	134.93	126.50
1	N	255	G	C4-C5-C6	6.48	122.69	118.80
1	N	476	U	C1'-O4'-C4'	6.48	115.08	109.90
1	N	803	G	C5-C6-O6	-6.48	124.71	128.60
1	N	1253	G	P-O3'-C3'	-6.48	111.92	119.70
1	N	1376	U	N3-C4-C5	-6.48	110.71	114.60
1	N	1415	G	C5-C6-O6	-6.48	124.71	128.60
1	N	1469	C	C5'-C4'-O4'	-6.48	101.32	109.10
1	N	308	C	N3-C2-O2	6.48	126.43	121.90
1	N	382	A	C5-C6-N6	-6.48	118.52	123.70
1	N	390	U	C4'-C3'-C2'	-6.48	96.12	102.60
1	N	682	G	N7-C8-N9	-6.48	109.86	113.10
1	N	1419	G	N1-C2-N3	-6.48	120.01	123.90
1	N	311	C	C6-N1-C2	6.48	122.89	120.30
1	N	71	A	C4-C5-N7	-6.47	107.46	110.70
1	N	691	G	C4-C5-N7	-6.47	108.21	110.80
1	N	951	G	C4-C5-C6	6.47	122.68	118.80
1	N	1180	A	C5-N7-C8	6.47	107.14	103.90
1	N	1181	G	N1-C2-N3	-6.47	120.02	123.90
1	N	248	C	N3-C2-O2	6.47	126.43	121.90
1	N	407	U	O4'-C1'-N1	6.47	113.38	108.20
1	N	412	A	C5-C6-N6	-6.47	118.52	123.70
1	N	558	G	N3-C2-N2	6.47	124.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	716	A	C4-C5-C6	6.47	120.24	117.00
1	N	885	G	N7-C8-N9	-6.47	109.86	113.10
1	N	968	A	C5-C6-N1	-6.47	114.46	117.70
1	N	979	C	C5'-C4'-C3'	-6.47	105.64	116.00
1	N	1456	A	N9-C4-C5	6.47	108.39	105.80
1	N	447	G	N3-C2-N2	6.47	124.43	119.90
1	N	617	G	P-O5'-C5'	6.47	131.25	120.90
1	N	201	G	C5-C6-O6	-6.47	124.72	128.60
1	N	299	G	C6-N1-C2	6.47	128.98	125.10
1	N	735	C	C3'-C2'-C1'	-6.47	96.33	101.50
1	N	891	U	O4'-C1'-N1	6.47	113.38	108.20
1	N	1175	G	C5'-C4'-O4'	6.47	116.86	109.10
1	N	1499	A	O4'-C1'-N9	6.47	113.37	108.20
1	N	274	A	C5-C6-N1	-6.47	114.47	117.70
1	N	896	C	C6-N1-C1'	-6.47	113.04	120.80
1	N	481	G	O4'-C1'-N9	6.46	113.37	108.20
1	N	899	C	P-O5'-C5'	6.46	131.24	120.90
1	N	931	C	C5-C4-N4	-6.46	115.67	120.20
1	N	1514	G	O4'-C4'-C3'	-6.46	97.54	104.00
1	N	307	C	P-O5'-C5'	-6.46	110.56	120.90
1	N	1134	G	C5'-C4'-C3'	6.46	126.34	116.00
1	N	54	C	N3-C2-O2	6.46	126.42	121.90
1	N	94	G	C3'-C2'-C1'	6.46	106.67	101.50
1	N	208	U	N3-C4-O4	6.46	123.92	119.40
1	N	454	G	P-O3'-C3'	-6.46	111.95	119.70
1	N	491	G	C5'-C4'-O4'	6.46	116.85	109.10
1	N	867	G	N3-C4-N9	6.46	129.88	126.00
1	N	1117	A	C5-C6-N1	-6.46	114.47	117.70
1	N	1530	G	C4-C5-N7	6.46	113.39	110.80
1	N	218	U	N3-C4-C5	-6.46	110.72	114.60
1	N	1073	U	C3'-C2'-C1'	-6.46	96.33	101.50
1	N	11	G	C4-C5-N7	-6.46	108.22	110.80
1	N	32	A	O4'-C1'-N9	6.46	113.37	108.20
1	N	71	A	C1'-O4'-C4'	6.46	115.07	109.90
1	N	212	G	C5'-C4'-C3'	6.46	126.33	116.00
1	N	361	G	C2-N3-C4	6.46	115.13	111.90
1	N	601	G	C6-C5-N7	-6.46	126.53	130.40
1	N	1246	A	C2-N3-C4	-6.46	107.37	110.60
1	N	176	C	O5'-P-OP1	-6.46	99.89	105.70
1	N	727	G	C5-C6-N1	-6.46	108.27	111.50
1	N	1022	A	C4-C5-C6	6.46	120.23	117.00
1	N	1043	G	P-O3'-C3'	6.46	127.45	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1394	A	C5-C6-N6	-6.45	118.54	123.70
1	N	1436	U	O4'-C1'-N1	6.45	113.36	108.20
1	N	1460	C	N3-C4-N4	6.45	122.52	118.00
1	N	1531	A	C5-C6-N1	-6.45	114.47	117.70
1	N	288	A	C6-C5-N7	-6.45	127.78	132.30
1	N	203	G	N3-C2-N2	6.45	124.42	119.90
1	N	255	G	N1-C2-N2	-6.45	110.39	116.20
1	N	799	G	C5-N7-C8	-6.45	101.08	104.30
1	N	1449	C	C5-C4-N4	-6.45	115.69	120.20
1	N	388	G	N7-C8-N9	6.45	116.32	113.10
1	N	960	U	N3-C4-C5	-6.45	110.73	114.60
1	N	1479	C	C2-N3-C4	6.45	123.12	119.90
1	N	1482	G	N1-C6-O6	6.45	123.77	119.90
1	N	1172	C	C5-C6-N1	6.45	124.22	121.00
1	N	96	U	C6-N1-C2	6.45	124.87	121.00
1	N	546	A	P-O5'-C5'	-6.45	110.59	120.90
1	N	830	G	N1-C2-N3	-6.45	120.03	123.90
1	N	897	C	C2-N1-C1'	6.45	125.89	118.80
1	N	1003	G	P-O3'-C3'	6.45	127.44	119.70
1	N	178	C	OP1-P-OP2	-6.44	109.93	119.60
1	N	814	A	N7-C8-N9	-6.44	110.58	113.80
1	N	75	G	C4'-C3'-C2'	-6.44	96.16	102.60
1	N	311	C	N3-C2-O2	-6.44	117.39	121.90
1	N	676	A	C5-C6-N6	-6.44	118.55	123.70
1	N	136	C	C6-N1-C2	-6.44	117.72	120.30
1	N	762	U	C2-N3-C4	-6.44	123.14	127.00
1	N	560	A	C5-C6-N6	-6.44	118.55	123.70
1	N	978	A	N3-C4-C5	-6.44	122.29	126.80
1	N	280	C	P-O5'-C5'	6.44	131.20	120.90
1	N	894	G	C2'-C3'-O3'	6.44	124.00	113.70
1	N	1027	C	N3-C4-N4	6.44	122.51	118.00
1	N	1425	U	N1-C2-O2	-6.44	118.29	122.80
1	N	849	G	C8-N9-C4	-6.44	103.83	106.40
1	N	22	G	C2-N3-C4	-6.43	108.68	111.90
1	N	107	G	N7-C8-N9	6.43	116.32	113.10
1	N	1041	G	O4'-C4'-C3'	-6.43	97.56	104.00
1	N	1151	A	C5-C6-N1	-6.43	114.48	117.70
1	N	180	U	C5-C4-O4	-6.43	122.04	125.90
1	N	1299	A	N3-C4-N9	6.43	132.54	127.40
1	N	172	A	O3'-P-O5'	-6.43	91.79	104.00
1	N	224	U	N1-C1'-C2'	-6.43	104.93	112.00
1	N	289	G	N1-C6-O6	6.43	123.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	938	A	O4'-C1'-N9	6.43	113.34	108.20
1	N	1155	A	C6-C5-N7	-6.43	127.80	132.30
1	N	1232	U	N1-C2-O2	-6.43	118.30	122.80
1	N	1530	G	C5'-C4'-O4'	6.43	116.81	109.10
1	N	83	C	N1-C2-O2	-6.43	115.05	118.90
1	N	824	G	C5-N7-C8	-6.43	101.09	104.30
1	N	1032	G	P-O5'-C5'	6.42	131.18	120.90
1	N	26	A	N9-C4-C5	6.42	108.37	105.80
1	N	488	C	N3-C4-C5	-6.42	119.33	121.90
1	N	727	G	N3-C2-N2	6.42	124.39	119.90
1	N	794	A	O4'-C1'-N9	6.42	113.34	108.20
1	N	1480	A	C1'-O4'-C4'	6.42	115.04	109.90
1	N	926	G	N1-C2-N3	-6.42	120.05	123.90
1	N	978	A	N3-C4-N9	6.42	132.54	127.40
1	N	1398	A	C4-C5-C6	6.42	120.21	117.00
1	N	1474	U	C5-C4-O4	-6.42	122.05	125.90
1	N	629	A	C4'-C3'-C2'	-6.42	96.18	102.60
1	N	1115	U	C3'-C2'-C1'	-6.42	96.37	101.50
1	N	1374	A	C4-C5-C6	6.42	120.21	117.00
1	N	1476	A	C5-C6-N1	-6.42	114.49	117.70
1	N	182	A	C2-N3-C4	-6.41	107.39	110.60
1	N	755	G	N1-C2-N3	-6.41	120.05	123.90
1	N	913	A	C5-N7-C8	-6.41	100.69	103.90
1	N	36	C	C5'-C4'-C3'	6.41	126.26	116.00
1	N	102	G	N7-C8-N9	-6.41	109.89	113.10
1	N	703	G	C6-C5-N7	-6.41	126.55	130.40
1	N	1415	G	N9-C4-C5	-6.41	102.83	105.40
1	N	294	U	C2-N3-C4	6.41	130.85	127.00
1	N	415	A	N1-C6-N6	6.41	122.45	118.60
1	N	1035	A	C8-N9-C4	-6.41	103.24	105.80
1	N	1494	G	O4'-C1'-N9	6.41	113.33	108.20
1	N	430	A	C5-C6-N6	-6.41	118.57	123.70
1	N	1147	C	N1-C1'-C2'	6.41	122.33	114.00
1	N	749	A	O4'-C1'-N9	6.41	113.32	108.20
1	N	898	G	C5-C6-O6	-6.41	124.76	128.60
1	N	1099	G	C1'-O4'-C4'	-6.41	104.78	109.90
1	N	777	A	C2-N3-C4	-6.40	107.40	110.60
1	N	1278	G	C2-N3-C4	6.40	115.10	111.90
1	N	328	C	C4-C5-C6	6.40	120.60	117.40
1	N	503	C	C2-N3-C4	6.40	123.10	119.90
1	N	606	G	C5-N7-C8	6.40	107.50	104.30
1	N	1398	A	N3-C4-N9	6.40	132.52	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	360	G	N1-C6-O6	6.40	123.74	119.90
1	N	1313	U	P-O5'-C5'	6.40	131.14	120.90
1	N	1503	A	C6-N1-C2	6.40	122.44	118.60
1	N	501	C	C6-N1-C1'	-6.40	113.12	120.80
1	N	1125	U	C2-N3-C4	-6.40	123.16	127.00
1	N	92	U	C5'-C4'-C3'	-6.40	105.76	116.00
1	N	458	U	P-O5'-C5'	-6.40	110.66	120.90
1	N	540	G	N9-C4-C5	-6.40	102.84	105.40
1	N	891	U	C5-C4-O4	-6.40	122.06	125.90
1	N	1140	C	P-O3'-C3'	6.40	127.38	119.70
1	N	1296	C	O4'-C1'-N1	6.40	113.32	108.20
1	N	55	A	C8-N9-C4	-6.40	103.24	105.80
1	N	268	U	OP1-P-OP2	-6.40	110.01	119.60
1	N	590	U	C5-C4-O4	-6.40	122.06	125.90
1	N	633	G	O4'-C4'-C3'	-6.40	97.60	104.00
1	N	1146	A	N1-C2-N3	6.40	132.50	129.30
1	N	1497	G	N3-C2-N2	6.40	124.38	119.90
1	N	497	G	C5-C6-O6	-6.39	124.76	128.60
1	N	722	G	C4'-C3'-C2'	6.39	109.00	102.60
1	N	1227	A	O4'-C1'-N9	6.39	113.32	108.20
1	N	1350	A	C6-C5-N7	-6.39	127.82	132.30
1	N	604	G	C4-C5-C6	6.39	122.64	118.80
1	N	437	U	C5-C6-N1	6.39	125.90	122.70
1	N	1242	G	C5-C6-N1	-6.39	108.31	111.50
1	N	269	C	C5-C4-N4	-6.39	115.73	120.20
1	N	717	U	C1'-O4'-C4'	6.39	115.01	109.90
1	N	446	G	O4'-C1'-N9	6.39	113.31	108.20
1	N	845	A	P-O5'-C5'	-6.39	110.68	120.90
1	N	1247	U	N3-C2-O2	-6.39	117.73	122.20
1	N	444	G	C2-N3-C4	-6.39	108.71	111.90
1	N	1015	G	C8-N9-C4	-6.39	103.84	106.40
1	N	1322	C	C4-C5-C6	6.38	120.59	117.40
1	N	273	U	O3'-P-O5'	-6.38	91.87	104.00
1	N	1248	A	C8-N9-C4	-6.38	103.25	105.80
1	N	200	G	O3'-P-O5'	-6.38	91.87	104.00
1	N	384	G	C5-C6-N1	-6.38	108.31	111.50
1	N	1488	G	C6-C5-N7	-6.38	126.57	130.40
1	N	283	U	C1'-O4'-C4'	6.38	115.00	109.90
1	N	1175	G	C4-C5-N7	6.38	113.35	110.80
1	N	1241	G	N3-C2-N2	6.38	124.37	119.90
1	N	1432	G	C4-C5-C6	6.38	122.63	118.80
1	N	198	G	C4-C5-N7	6.38	113.35	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	253	A	O4'-C1'-N9	6.38	113.30	108.20
1	N	540	G	C4-N9-C1'	-6.38	118.21	126.50
1	N	649	A	N1-C2-N3	6.38	132.49	129.30
1	N	1140	C	C4'-C3'-C2'	-6.38	96.22	102.60
1	N	1337	G	O4'-C1'-N9	6.38	113.30	108.20
1	N	1498	U	C2-N3-C4	-6.38	123.17	127.00
1	N	157	U	C4-C5-C6	-6.38	115.87	119.70
1	N	340	U	C2-N3-C4	-6.38	123.17	127.00
1	N	1108	G	O5'-C5'-C4'	-6.38	99.58	111.70
1	N	1379	G	C6-C5-N7	-6.38	126.57	130.40
1	N	1390	U	O4'-C1'-N1	6.38	113.30	108.20
1	N	1429	A	C8-N9-C4	-6.38	103.25	105.80
1	N	251	G	C4'-C3'-C2'	-6.37	96.23	102.60
1	N	410	G	N1-C6-O6	6.37	123.72	119.90
1	N	533	A	C5-N7-C8	6.37	107.09	103.90
1	N	689	C	O4'-C1'-N1	6.37	113.30	108.20
1	N	1088	G	N1-C6-O6	6.37	123.72	119.90
1	N	1369	C	C5-C4-N4	-6.37	115.74	120.20
1	N	1092	A	C4-C5-C6	6.37	120.19	117.00
1	N	851	G	P-O5'-C5'	6.37	131.09	120.90
1	N	1191	A	C5-C6-N6	-6.37	118.61	123.70
1	N	380	G	N7-C8-N9	-6.37	109.92	113.10
1	N	1240	U	N3-C4-C5	-6.37	110.78	114.60
1	N	137	U	C6-N1-C2	-6.37	117.18	121.00
1	N	175	C	C4'-C3'-C2'	-6.37	96.23	102.60
1	N	702	A	C4-N9-C1'	6.37	137.76	126.30
1	N	1460	C	C6-N1-C2	6.37	122.85	120.30
1	N	338	A	N1-C2-N3	-6.36	126.12	129.30
1	N	341	C	C4-C5-C6	-6.36	114.22	117.40
1	N	1097	C	C6-N1-C2	-6.36	117.75	120.30
1	N	1223	C	C4-C5-C6	-6.36	114.22	117.40
1	N	295	C	N3-C2-O2	6.36	126.35	121.90
1	N	128	G	C4-C5-N7	6.36	113.34	110.80
1	N	311	C	N3-C4-C5	-6.36	119.36	121.90
1	N	322	C	N3-C4-C5	-6.36	119.36	121.90
1	N	338	A	N7-C8-N9	-6.36	110.62	113.80
1	N	992	U	P-O5'-C5'	-6.36	110.72	120.90
1	N	1026	G	C4-C5-C6	6.36	122.62	118.80
1	N	1047	G	C8-N9-C4	6.36	108.94	106.40
1	N	1254	A	C5-N7-C8	6.36	107.08	103.90
1	N	1401	G	O4'-C1'-N9	6.36	113.29	108.20
1	N	573	A	N9-C4-C5	6.36	108.34	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	67	C	C4'-C3'-C2'	-6.36	96.24	102.60
1	N	262	A	C2-N3-C4	-6.36	107.42	110.60
1	N	1038	C	P-O3'-C3'	6.36	127.33	119.70
1	N	1102	A	C5-C6-N1	-6.36	114.52	117.70
1	N	1396	A	N7-C8-N9	-6.36	110.62	113.80
1	N	1474	U	C6-N1-C2	6.36	124.81	121.00
1	N	410	G	O4'-C1'-N9	6.36	113.28	108.20
1	N	473	U	N3-C2-O2	6.36	126.65	122.20
1	N	820	U	O3'-P-O5'	6.36	116.07	104.00
1	N	1394	A	C4-C5-N7	-6.36	107.52	110.70
1	N	583	A	C5-C6-N6	-6.35	118.62	123.70
1	N	872	A	C5-C6-N1	-6.35	114.52	117.70
1	N	973	G	C4-C5-C6	6.35	122.61	118.80
1	N	1307	U	N3-C4-C5	6.35	118.41	114.60
1	N	1012	A	C6-C5-N7	-6.35	127.85	132.30
1	N	1163	A	N1-C6-N6	6.35	122.41	118.60
1	N	32	A	C6-C5-N7	-6.35	127.85	132.30
1	N	94	G	P-O5'-C5'	-6.35	110.74	120.90
1	N	147	G	P-O5'-C5'	6.35	131.06	120.90
1	N	537	G	C6-C5-N7	-6.35	126.59	130.40
1	N	558	G	C4-C5-C6	6.35	122.61	118.80
1	N	766	A	C2-N3-C4	-6.35	107.43	110.60
1	N	332	G	C6-C5-N7	-6.35	126.59	130.40
1	N	414	A	N1-C6-N6	6.35	122.41	118.60
1	N	853	C	C6-N1-C1'	-6.35	113.18	120.80
1	N	1068	G	C4-N9-C1'	6.35	134.75	126.50
1	N	1148	U	C4-C5-C6	-6.35	115.89	119.70
1	N	1493	A	N3-C4-C5	-6.35	122.36	126.80
1	N	1514	G	C6-C5-N7	-6.35	126.59	130.40
1	N	380	G	P-O3'-C3'	6.35	127.31	119.70
1	N	28	A	C4-C5-C6	6.34	120.17	117.00
1	N	145	G	C6-C5-N7	-6.34	126.59	130.40
1	N	1407	C	C4-C5-C6	6.34	120.57	117.40
1	N	350	G	N9-C4-C5	6.34	107.94	105.40
1	N	406	G	OP1-P-OP2	-6.34	110.09	119.60
1	N	667	G	C5-N7-C8	6.34	107.47	104.30
1	N	21	G	O4'-C1'-N9	6.34	113.27	108.20
1	N	1117	A	O5'-C5'-C4'	-6.34	99.65	111.70
1	N	1481	U	C5-C4-O4	-6.34	122.09	125.90
1	N	742	G	C5-C6-N1	-6.34	108.33	111.50
1	N	1044	A	O4'-C1'-N9	6.34	113.27	108.20
1	N	42	G	C8-N9-C4	-6.34	103.86	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	379	C	N1-C2-O2	-6.34	115.10	118.90
1	N	108	G	C4-C5-C6	6.34	122.60	118.80
1	N	187	G	N3-C2-N2	6.34	124.34	119.90
1	N	276	G	C4-C5-N7	6.34	113.33	110.80
1	N	469	C	P-O3'-C3'	6.34	127.30	119.70
1	N	644	U	N3-C4-C5	-6.34	110.80	114.60
1	N	895	G	O5'-C5'-C4'	-6.34	99.66	111.70
1	N	1146	A	N7-C8-N9	-6.34	110.63	113.80
1	N	1232	U	C5'-C4'-O4'	6.34	116.70	109.10
1	N	209	U	C3'-C2'-C1'	-6.33	96.43	101.50
1	N	1313	U	N3-C4-C5	-6.33	110.80	114.60
1	N	780	A	O4'-C1'-N9	6.33	113.27	108.20
1	N	1136	C	C6-N1-C2	6.33	122.83	120.30
1	N	1419	G	N3-C2-N2	6.33	124.33	119.90
1	N	85	U	N3-C4-C5	-6.33	110.80	114.60
1	N	671	G	N7-C8-N9	6.33	116.27	113.10
1	N	711	G	N3-C2-N2	6.33	124.33	119.90
1	N	1063	C	C4-C5-C6	6.33	120.57	117.40
1	N	1178	G	C5-N7-C8	-6.33	101.13	104.30
1	N	1338	G	C4-C5-C6	6.33	122.60	118.80
1	N	488	C	C4-C5-C6	6.33	120.56	117.40
1	N	37	U	C2-N3-C4	6.33	130.80	127.00
1	N	172	A	N9-C4-C5	6.33	108.33	105.80
1	N	399	G	N1-C2-N3	-6.33	120.10	123.90
1	N	791	G	C4-C5-N7	-6.33	108.27	110.80
1	N	1053	G	C2-N3-C4	6.33	115.06	111.90
1	N	1318	A	N3-C4-C5	-6.33	122.37	126.80
1	N	1325	C	C5-C4-N4	-6.33	115.77	120.20
1	N	115	G	N1-C6-O6	6.33	123.70	119.90
1	N	132	C	N3-C4-N4	6.33	122.43	118.00
1	N	1006	G	N3-C4-C5	6.33	131.76	128.60
1	N	1287	A	C5-C6-N1	-6.33	114.54	117.70
1	N	45	G	C3'-C2'-C1'	6.32	106.56	101.50
1	N	824	G	C6-N1-C2	6.32	128.89	125.10
1	N	1031	C	O4'-C1'-N1	6.32	113.26	108.20
1	N	1033	G	C4'-C3'-C2'	-6.32	96.28	102.60
1	N	669	G	C2-N3-C4	6.32	115.06	111.90
1	N	1415	G	C5'-C4'-O4'	6.32	116.68	109.10
1	N	181	A	C4'-C3'-O3'	6.32	125.64	113.00
1	N	280	C	N3-C4-C5	-6.32	119.37	121.90
1	N	906	A	N1-C2-N3	6.32	132.46	129.30
1	N	1225	A	C1'-O4'-C4'	6.32	114.95	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	454	G	C2'-C3'-O3'	6.31	123.80	113.70
1	N	1105	A	C4-C5-C6	6.31	120.16	117.00
1	N	1119	C	C5-C6-N1	6.31	124.16	121.00
1	N	1220	G	P-O3'-C3'	-6.31	112.12	119.70
1	N	1277	C	N1-C2-O2	6.31	122.69	118.90
1	N	74	A	P-O3'-C3'	6.31	127.28	119.70
1	N	520	A	O4'-C4'-C3'	-6.31	97.69	104.00
1	N	723	U	N1-C1'-C2'	-6.31	105.06	112.00
1	N	797	C	O4'-C1'-N1	6.31	113.25	108.20
1	N	995	C	N3-C4-N4	6.31	122.42	118.00
1	N	1378	C	C2-N1-C1'	6.31	125.74	118.80
1	N	1476	A	C5-N7-C8	6.31	107.06	103.90
1	N	7	A	C1'-O4'-C4'	-6.31	104.85	109.90
1	N	198	G	N1-C2-N3	-6.31	120.11	123.90
1	N	259	G	N7-C8-N9	6.31	116.26	113.10
1	N	629	A	P-O3'-C3'	-6.31	112.13	119.70
1	N	877	G	C3'-C2'-C1'	-6.31	96.45	101.50
1	N	885	G	C6-N1-C2	6.31	128.89	125.10
1	N	986	U	O4'-C4'-C3'	-6.31	97.69	104.00
1	N	1478	U	N3-C4-O4	6.31	123.82	119.40
1	N	894	G	C4-C5-N7	6.31	113.32	110.80
1	N	1097	C	N3-C2-O2	6.31	126.32	121.90
1	N	1397	C	C5-C6-N1	-6.31	117.85	121.00
1	N	323	U	P-O5'-C5'	6.31	130.99	120.90
1	N	881	G	C3'-C2'-C1'	-6.31	96.45	101.50
1	N	902	G	O4'-C1'-N9	6.31	113.25	108.20
1	N	991	U	N3-C4-O4	6.31	123.81	119.40
1	N	1011	C	P-O5'-C5'	6.31	130.99	120.90
1	N	1165	U	C5-C6-N1	6.31	125.85	122.70
1	N	1340	A	O4'-C1'-N9	6.31	113.25	108.20
1	N	309	A	O4'-C1'-N9	6.31	113.25	108.20
1	N	580	C	N1-C2-O2	-6.31	115.12	118.90
1	N	668	G	O4'-C1'-N9	6.31	113.25	108.20
1	N	798	U	N3-C4-O4	6.31	123.81	119.40
1	N	428	G	N3-C4-N9	6.30	129.78	126.00
1	N	859	G	O4'-C1'-N9	6.30	113.24	108.20
1	N	1401	G	C5-C6-O6	-6.30	124.82	128.60
1	N	1482	G	P-O3'-C3'	6.30	127.27	119.70
1	N	1523	G	O4'-C1'-N9	6.30	113.24	108.20
1	N	854	U	O4'-C1'-N1	6.30	113.24	108.20
1	N	226	G	C4-C5-C6	6.30	122.58	118.80
1	N	554	A	O4'-C1'-N9	6.30	113.24	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	711	G	N7-C8-N9	6.30	116.25	113.10
1	N	1120	C	P-O3'-C3'	-6.30	112.14	119.70
1	N	18	C	C5'-C4'-C3'	6.30	126.08	116.00
1	N	887	G	C8-N9-C4	6.30	108.92	106.40
1	N	1184	G	P-O3'-C3'	-6.30	112.14	119.70
1	N	1308	U	N3-C2-O2	6.30	126.61	122.20
1	N	249	U	P-O3'-C3'	-6.30	112.14	119.70
1	N	399	G	C4-C5-N7	6.30	113.32	110.80
1	N	414	A	C5-C6-N1	-6.30	114.55	117.70
1	N	552	U	O4'-C1'-N1	6.30	113.24	108.20
1	N	936	C	N3-C4-C5	-6.30	119.38	121.90
1	N	1241	G	C6-C5-N7	-6.30	126.62	130.40
1	N	1361	G	C6-N1-C2	-6.30	121.32	125.10
1	N	107	G	C5-N7-C8	-6.30	101.15	104.30
1	N	668	G	N3-C2-N2	-6.30	115.49	119.90
1	N	669	G	P-O5'-C5'	6.30	130.97	120.90
1	N	692	U	C4-C5-C6	6.30	123.48	119.70
1	N	867	G	P-O3'-C3'	6.30	127.25	119.70
1	N	760	G	N9-C4-C5	6.29	107.92	105.40
1	N	1099	G	C8-N9-C4	6.29	108.92	106.40
1	N	1223	C	N3-C4-C5	6.29	124.42	121.90
1	N	270	A	C4-C5-C6	6.29	120.15	117.00
1	N	274	A	P-O3'-C3'	6.29	127.25	119.70
1	N	665	A	C4-C5-N7	-6.29	107.55	110.70
1	N	725	G	N3-C2-N2	6.29	124.30	119.90
1	N	733	G	O4'-C4'-C3'	-6.29	97.71	104.00
1	N	804	U	C2-N3-C4	-6.29	123.22	127.00
1	N	1122	U	N3-C4-O4	6.29	123.81	119.40
1	N	1232	U	P-O3'-C3'	6.29	127.25	119.70
1	N	100	G	C6-N1-C2	6.29	128.87	125.10
1	N	1356	G	C1'-O4'-C4'	6.29	114.93	109.90
1	N	108	G	C6-N1-C2	-6.29	121.33	125.10
1	N	148	G	N3-C2-N2	6.29	124.30	119.90
1	N	149	A	N1-C2-N3	6.29	132.44	129.30
1	N	393	A	P-O3'-C3'	-6.29	112.16	119.70
1	N	423	G	O4'-C1'-N9	6.29	113.23	108.20
1	N	518	C	C5-C4-N4	-6.29	115.80	120.20
1	N	1449	C	C2-N1-C1'	6.29	125.72	118.80
1	N	41	G	C6-C5-N7	-6.29	126.63	130.40
1	N	756	C	O4'-C4'-C3'	-6.29	97.71	104.00
1	N	1362	A	C6-C5-N7	-6.29	127.90	132.30
1	N	1365	G	N1-C6-O6	6.29	123.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	651	C	C5-C6-N1	6.29	124.14	121.00
1	N	1458	G	N9-C4-C5	-6.29	102.89	105.40
1	N	215	C	N3-C4-N4	6.28	122.40	118.00
1	N	322	C	N1-C2-O2	-6.28	115.13	118.90
1	N	425	G	N7-C8-N9	-6.28	109.96	113.10
1	N	673	A	C2-N3-C4	-6.28	107.46	110.60
1	N	749	A	C5'-C4'-O4'	6.28	116.64	109.10
1	N	1232	U	C5-C4-O4	6.28	129.67	125.90
1	N	1262	C	N3-C2-O2	-6.28	117.50	121.90
1	N	1292	G	C4-C5-N7	-6.28	108.29	110.80
1	N	47	C	C4'-C3'-C2'	6.28	108.88	102.60
1	N	200	G	P-O5'-C5'	-6.28	110.85	120.90
1	N	257	G	O4'-C4'-C3'	-6.28	97.72	104.00
1	N	690	G	P-O5'-C5'	6.28	130.95	120.90
1	N	755	G	C4-C5-N7	-6.28	108.29	110.80
1	N	807	A	N7-C8-N9	-6.28	110.66	113.80
1	N	869	G	C5'-C4'-C3'	-6.28	105.95	116.00
1	N	1182	G	N9-C4-C5	6.28	107.91	105.40
1	N	1483	A	C4-C5-C6	6.28	120.14	117.00
1	N	1133	G	N7-C8-N9	6.28	116.24	113.10
1	N	1213	A	C5-C6-N6	-6.28	118.68	123.70
1	N	507	C	N3-C2-O2	-6.28	117.51	121.90
1	N	1303	C	N3-C4-C5	-6.28	119.39	121.90
1	N	1305	G	P-O3'-C3'	6.28	127.23	119.70
1	N	212	G	N7-C8-N9	-6.28	109.96	113.10
1	N	706	A	C6-C5-N7	-6.28	127.91	132.30
1	N	1499	A	C3'-C2'-C1'	6.28	106.52	101.50
1	N	211	G	N3-C2-N2	-6.27	115.51	119.90
1	N	327	A	C2-N3-C4	-6.27	107.46	110.60
1	N	376	G	C3'-C2'-C1'	6.27	106.52	101.50
1	N	510	A	P-O3'-C3'	6.27	127.23	119.70
1	N	834	U	O4'-C1'-N1	6.27	113.22	108.20
1	N	342	C	N1-C2-N3	-6.27	114.81	119.20
1	N	593	U	C6-N1-C2	-6.27	117.24	121.00
1	N	695	A	O5'-C5'-C4'	-6.27	99.78	111.70
1	N	1233	G	C4-C5-N7	6.27	113.31	110.80
1	N	1500	A	C1'-O4'-C4'	6.27	114.92	109.90
1	N	415	A	C6-C5-N7	-6.27	127.91	132.30
1	N	1184	G	C6-C5-N7	-6.27	126.64	130.40
1	N	1329	A	C6-C5-N7	-6.27	127.91	132.30
1	N	1366	C	N3-C2-O2	6.27	126.29	121.90
1	N	161	A	C4-C5-C6	6.27	120.13	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	231	U	N3-C4-C5	-6.27	110.84	114.60
1	N	646	G	C8-N9-C4	-6.27	103.89	106.40
1	N	1359	C	C2-N1-C1'	-6.27	111.91	118.80
1	N	15	G	C4-C5-C6	6.27	122.56	118.80
1	N	280	C	C5-C6-N1	6.27	124.13	121.00
1	N	447	G	N7-C8-N9	-6.27	109.97	113.10
1	N	490	C	C4'-C3'-C2'	-6.27	96.33	102.60
1	N	603	U	C4-C5-C6	6.27	123.46	119.70
1	N	1048	G	N1-C2-N3	-6.27	120.14	123.90
1	N	1148	U	C2-N3-C4	-6.27	123.24	127.00
1	N	1218	C	N3-C4-C5	-6.27	119.39	121.90
1	N	1520	C	C5-C6-N1	6.27	124.13	121.00
1	N	60	A	OP1-P-O3'	6.26	118.98	105.20
1	N	661	G	N3-C2-N2	6.26	124.28	119.90
1	N	1023	U	C5-C4-O4	6.26	129.66	125.90
1	N	1452	C	OP1-P-OP2	-6.26	110.20	119.60
1	N	511	C	O4'-C1'-C2'	-6.26	99.54	105.80
1	N	869	G	N3-C2-N2	6.26	124.28	119.90
1	N	936	C	C5'-C4'-C3'	-6.26	105.98	116.00
1	N	1321	U	P-O5'-C5'	6.26	130.92	120.90
1	N	368	U	C4-C5-C6	6.26	123.45	119.70
1	N	383	A	C5-C6-N1	-6.26	114.57	117.70
1	N	725	G	N1-C6-O6	6.26	123.66	119.90
1	N	1111	A	C1'-O4'-C4'	-6.26	104.89	109.90
1	N	1367	C	N3-C2-O2	6.26	126.28	121.90
1	N	479	U	C5'-C4'-O4'	6.26	116.61	109.10
1	N	626	G	N3-C2-N2	6.26	124.28	119.90
1	N	917	G	C4-N9-C1'	6.26	134.63	126.50
1	N	918	A	N9-C4-C5	-6.26	103.30	105.80
1	N	1172	C	P-O3'-C3'	6.26	127.21	119.70
1	N	1380	U	C2-N3-C4	6.26	130.75	127.00
1	N	1534	A	O4'-C1'-N9	6.26	113.20	108.20
1	N	136	C	P-O5'-C5'	6.25	130.91	120.90
1	N	210	C	C5'-C4'-O4'	6.25	116.61	109.10
1	N	467	U	C5'-C4'-O4'	6.25	116.61	109.10
1	N	1152	A	C4-C5-C6	6.25	120.13	117.00
1	N	1155	A	O5'-P-OP1	-6.25	100.07	105.70
1	N	198	G	C6-C5-N7	-6.25	126.65	130.40
1	N	522	C	P-O5'-C5'	6.25	130.90	120.90
1	N	1118	U	C5-C6-N1	6.25	125.83	122.70
1	N	315	A	C6-C5-N7	-6.25	127.93	132.30
1	N	918	A	C2-N3-C4	-6.25	107.48	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	572	A	C4-C5-C6	6.25	120.12	117.00
1	N	1177	G	C5-C6-N1	-6.25	108.38	111.50
1	N	1236	A	C5-C6-N1	-6.25	114.58	117.70
1	N	980	C	N3-C4-C5	-6.24	119.40	121.90
1	N	1348	U	N3-C4-O4	6.24	123.77	119.40
1	N	196	A	C5-C6-N1	-6.24	114.58	117.70
1	N	321	A	C6-N1-C2	6.24	122.34	118.60
1	N	594	U	N3-C2-O2	6.24	126.57	122.20
1	N	668	G	O4'-C4'-C3'	-6.24	97.76	104.00
1	N	670	G	C4'-C3'-C2'	-6.24	96.36	102.60
1	N	1037	C	P-O5'-C5'	6.24	130.88	120.90
1	N	1044	A	N3-C4-C5	-6.24	122.43	126.80
1	N	1160	G	C5-C6-O6	-6.24	124.86	128.60
1	N	1430	A	C5-C6-N6	-6.24	118.71	123.70
1	N	1043	G	C1'-O4'-C4'	6.24	114.89	109.90
1	N	338	A	P-O3'-C3'	-6.24	112.22	119.70
1	N	386	C	C4'-C3'-C2'	-6.24	96.36	102.60
1	N	1516	G	C8-N9-C4	-6.23	103.91	106.40
1	N	1284	C	N3-C4-C5	6.23	124.39	121.90
1	N	1352	C	C5-C4-N4	-6.23	115.84	120.20
1	N	509	A	C4-C5-N7	-6.23	107.58	110.70
1	N	949	A	C5'-C4'-O4'	6.23	116.57	109.10
1	N	6	G	N9-C4-C5	6.23	107.89	105.40
1	N	115	G	C5-C6-O6	-6.23	124.86	128.60
1	N	847	G	C5-C6-N1	-6.23	108.39	111.50
1	N	1342	C	C6-N1-C2	6.23	122.79	120.30
1	N	1427	C	N3-C2-O2	6.23	126.26	121.90
1	N	555	U	N3-C4-O4	6.23	123.76	119.40
1	N	1141	C	C6-N1-C2	-6.23	117.81	120.30
1	N	1432	G	C5-C6-N1	-6.23	108.39	111.50
1	N	289	G	C5-N7-C8	6.22	107.41	104.30
1	N	410	G	C4-C5-N7	-6.22	108.31	110.80
1	N	803	G	O4'-C1'-N9	6.22	113.18	108.20
1	N	895	G	C4'-C3'-C2'	-6.22	96.38	102.60
1	N	1248	A	C5-C6-N6	-6.22	118.72	123.70
1	N	1457	G	C5'-C4'-O4'	6.22	116.57	109.10
1	N	338	A	C6-N1-C2	6.22	122.33	118.60
1	N	559	A	O4'-C1'-N9	6.22	113.18	108.20
1	N	1294	G	C2-N3-C4	-6.22	108.79	111.90
1	N	1409	C	O4'-C1'-N1	6.22	113.18	108.20
1	N	1505	G	C5-C6-N1	-6.22	108.39	111.50
1	N	152	A	N7-C8-N9	-6.22	110.69	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	412	A	C5'-C4'-O4'	6.22	116.56	109.10
1	N	433	G	O4'-C1'-N9	6.22	113.17	108.20
1	N	460	A	N1-C2-N3	6.22	132.41	129.30
1	N	866	C	N1-C2-N3	-6.22	114.85	119.20
1	N	1101	A	O4'-C1'-N9	6.22	113.18	108.20
1	N	1399	C	N1-C2-N3	-6.22	114.85	119.20
1	N	559	A	C2-N3-C4	-6.22	107.49	110.60
1	N	3	A	C5-C6-N6	-6.22	118.73	123.70
1	N	387	U	P-O3'-C3'	6.22	127.16	119.70
1	N	735	C	N3-C4-C5	-6.22	119.41	121.90
1	N	1305	G	C3'-C2'-C1'	6.22	106.47	101.50
1	N	311	C	C3'-C2'-C1'	-6.21	96.53	101.50
1	N	461	A	P-O3'-C3'	6.21	127.16	119.70
1	N	625	U	C5-C6-N1	6.21	125.81	122.70
1	N	792	A	C5-C6-N1	-6.21	114.59	117.70
1	N	800	G	N3-C4-C5	-6.21	125.49	128.60
1	N	941	G	C2-N3-C4	6.21	115.01	111.90
1	N	1044	A	C4-C5-N7	-6.21	107.59	110.70
1	N	1519	A	C5-C6-N1	-6.21	114.59	117.70
1	N	1075	U	N3-C4-O4	6.21	123.75	119.40
1	N	1129	C	C2-N3-C4	6.21	123.01	119.90
1	N	235	C	P-O5'-C5'	6.21	130.84	120.90
1	N	880	C	N3-C4-C5	-6.21	119.42	121.90
1	N	423	G	C2-N3-C4	6.21	115.00	111.90
1	N	771	G	N1-C2-N3	-6.21	120.17	123.90
1	N	99	C	N3-C2-O2	-6.21	117.55	121.90
1	N	1236	A	O4'-C1'-N9	6.21	113.17	108.20
1	N	1278	G	N1-C2-N2	6.21	121.79	116.20
1	N	230	G	C4'-C3'-C2'	-6.21	96.39	102.60
1	N	233	C	C6-N1-C1'	-6.21	113.35	120.80
1	N	447	G	N9-C1'-C2'	-6.21	105.17	112.00
1	N	488	C	O4'-C1'-N1	6.21	113.16	108.20
1	N	1222	G	C4-C5-N7	6.21	113.28	110.80
1	N	71	A	O4'-C1'-N9	6.20	113.16	108.20
1	N	105	G	P-O5'-C5'	6.20	130.83	120.90
1	N	686	U	P-O5'-C5'	6.20	130.82	120.90
1	N	913	A	C6-C5-N7	-6.20	127.96	132.30
1	N	1019	A	N9-C1'-C2'	-6.20	105.18	112.00
1	N	1279	G	C5-N7-C8	-6.20	101.20	104.30
1	N	1482	G	O4'-C1'-N9	6.20	113.16	108.20
1	N	127	G	O4'-C1'-C2'	-6.20	99.60	105.80
1	N	213	G	O5'-P-OP2	-6.20	100.12	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	861	G	C2-N3-C4	-6.20	108.80	111.90
1	N	1204	A	N3-C4-N9	6.20	132.36	127.40
1	N	354	G	N9-C4-C5	-6.20	102.92	105.40
1	N	500	G	O4'-C1'-C2'	-6.20	99.60	105.80
1	N	802	A	O4'-C1'-N9	6.20	113.16	108.20
1	N	985	C	C5-C6-N1	6.20	124.10	121.00
1	N	1308	U	C6-N1-C2	-6.20	117.28	121.00
1	N	196	A	C2-N3-C4	-6.20	107.50	110.60
1	N	1290	G	C6-N1-C2	6.20	128.82	125.10
1	N	144	G	N3-C4-N9	-6.20	122.28	126.00
1	N	485	U	C6-N1-C1'	-6.20	112.53	121.20
1	N	1339	A	P-O3'-C3'	6.20	127.14	119.70
1	N	1443	C	C2-N3-C4	6.20	123.00	119.90
1	N	171	A	N3-C4-C5	-6.19	122.47	126.80
1	N	1025	U	N3-C2-O2	6.19	126.53	122.20
1	N	634	C	N3-C4-N4	6.19	122.33	118.00
1	N	540	G	N1-C2-N3	-6.19	120.19	123.90
1	N	1300	G	N1-C2-N2	6.19	121.77	116.20
1	N	1522	U	C5-C4-O4	-6.19	122.19	125.90
1	N	159	G	C5-N7-C8	-6.19	101.21	104.30
1	N	307	C	N3-C4-N4	6.19	122.33	118.00
1	N	1378	C	C5-C6-N1	6.19	124.09	121.00
1	N	335	C	C1'-O4'-C4'	6.19	114.85	109.90
1	N	1438	G	C4'-C3'-C2'	-6.19	96.41	102.60
1	N	93	U	N3-C2-O2	6.18	126.53	122.20
1	N	235	C	OP1-P-OP2	-6.18	110.32	119.60
1	N	297	G	C4-N9-C1'	-6.18	118.46	126.50
1	N	463	U	C1'-O4'-C4'	-6.18	104.95	109.90
1	N	1138	G	O4'-C1'-N9	6.18	113.15	108.20
1	N	180	U	C3'-C2'-C1'	-6.18	96.55	101.50
1	N	517	G	O4'-C1'-N9	6.18	113.14	108.20
1	N	563	A	C5-N7-C8	6.18	106.99	103.90
1	N	668	G	C5-C6-O6	-6.18	124.89	128.60
1	N	714	G	N1-C2-N3	-6.18	120.19	123.90
1	N	1134	G	C5-C6-O6	-6.18	124.89	128.60
1	N	1279	G	C8-N9-C1'	-6.18	118.97	127.00
1	N	449	G	C8-N9-C4	-6.18	103.93	106.40
1	N	471	U	P-O5'-C5'	6.18	130.79	120.90
1	N	530	G	C6-C5-N7	-6.18	126.69	130.40
1	N	667	G	N1-C2-N2	6.18	121.76	116.20
1	N	1135	U	OP1-P-OP2	-6.18	110.33	119.60
1	N	1282	C	C5-C4-N4	-6.18	115.87	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1309	G	C4-C5-N7	6.18	113.27	110.80
1	N	1322	C	C3'-C2'-C1'	6.18	106.44	101.50
1	N	296	U	O4'-C1'-N1	6.18	113.14	108.20
1	N	946	A	C5-C6-N6	-6.18	118.76	123.70
1	N	1018	G	P-O3'-C3'	6.18	127.11	119.70
1	N	1503	A	P-O3'-C3'	6.18	127.11	119.70
1	N	34	C	N3-C4-C5	-6.18	119.43	121.90
1	N	64	G	N9-C4-C5	-6.18	102.93	105.40
1	N	160	A	C5-C6-N6	-6.18	118.76	123.70
1	N	521	G	N1-C2-N3	-6.18	120.19	123.90
1	N	1507	A	C8-N9-C4	-6.18	103.33	105.80
1	N	850	U	N3-C4-O4	6.17	123.72	119.40
1	N	1114	C	C5'-C4'-C3'	-6.17	106.12	116.00
1	N	1291	U	N1-C2-O2	-6.17	118.48	122.80
1	N	1489	G	C4-C5-N7	-6.17	108.33	110.80
1	N	115	G	C6-N1-C2	6.17	128.80	125.10
1	N	160	A	N9-C4-C5	6.17	108.27	105.80
1	N	720	C	N3-C4-N4	6.17	122.32	118.00
1	N	768	A	C2-N3-C4	6.17	113.69	110.60
1	N	1063	C	N3-C4-N4	6.17	122.32	118.00
1	N	184	G	N7-C8-N9	6.17	116.19	113.10
1	N	574	A	C8-N9-C4	6.17	108.27	105.80
1	N	406	G	C3'-C2'-C1'	6.17	106.43	101.50
1	N	514	C	C6-N1-C1'	-6.17	113.40	120.80
1	N	928	G	N3-C2-N2	6.17	124.22	119.90
1	N	948	C	P-O3'-C3'	-6.17	112.30	119.70
1	N	1368	A	C4'-C3'-C2'	-6.17	96.43	102.60
1	N	220	G	C4'-C3'-C2'	-6.17	96.43	102.60
1	N	364	A	C3'-C2'-C1'	6.17	106.43	101.50
1	N	431	A	OP1-P-OP2	-6.17	110.35	119.60
1	N	459	A	C8-N9-C4	-6.17	103.33	105.80
1	N	494	G	C8-N9-C4	-6.17	103.93	106.40
1	N	1322	C	N1-C2-N3	-6.17	114.88	119.20
1	N	1282	C	O4'-C1'-C2'	-6.17	99.64	105.80
1	N	330	C	O4'-C1'-N1	6.16	113.13	108.20
1	N	1188	A	C6-C5-N7	-6.16	127.98	132.30
1	N	1235	U	N3-C4-O4	6.16	123.71	119.40
1	N	1372	U	N3-C2-O2	-6.16	117.89	122.20
1	N	437	U	C2-N3-C4	-6.16	123.30	127.00
1	N	758	C	C5-C4-N4	-6.16	115.89	120.20
1	N	1186	G	N1-C6-O6	-6.16	116.20	119.90
1	N	109	A	C8-N9-C4	-6.16	103.34	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	346	G	C3'-C2'-C1'	6.16	106.43	101.50
1	N	1504	G	C5-N7-C8	6.16	107.38	104.30
1	N	212	G	C4-C5-C6	6.16	122.50	118.80
1	N	358	U	O4'-C1'-N1	6.16	113.13	108.20
1	N	692	U	N3-C4-C5	-6.16	110.91	114.60
1	N	1000	A	P-O5'-C5'	6.16	130.75	120.90
1	N	300	A	C6-C5-N7	-6.16	127.99	132.30
1	N	849	G	C2-N3-C4	6.16	114.98	111.90
1	N	149	A	C5-C6-N6	-6.16	118.78	123.70
1	N	429	U	C4-C5-C6	6.16	123.39	119.70
1	N	27	G	N9-C1'-C2'	-6.15	105.23	112.00
1	N	364	A	OP1-P-OP2	-6.15	110.37	119.60
1	N	809	G	C4-C5-N7	-6.15	108.34	110.80
1	N	1242	G	O4'-C1'-N9	6.15	113.12	108.20
1	N	327	A	C4-C5-N7	-6.15	107.62	110.70
1	N	453	G	N3-C4-C5	-6.15	125.52	128.60
1	N	1376	U	C5-C4-O4	-6.15	122.21	125.90
1	N	1500	A	P-O5'-C5'	6.15	130.75	120.90
1	N	1108	G	C4'-C3'-C2'	-6.15	96.45	102.60
1	N	1239	A	C4'-C3'-O3'	6.15	125.30	113.00
1	N	1386	G	C8-N9-C4	-6.15	103.94	106.40
1	N	793	U	P-O5'-C5'	-6.15	111.06	120.90
1	N	1395	C	C6-N1-C2	-6.15	117.84	120.30
1	N	1510	C	N1-C2-N3	-6.15	114.90	119.20
1	N	706	A	C5-C6-N1	-6.15	114.63	117.70
1	N	100	G	O4'-C1'-N9	6.14	113.12	108.20
1	N	815	A	C5-N7-C8	6.14	106.97	103.90
1	N	940	C	O4'-C1'-N1	6.14	113.11	108.20
1	N	50	A	C4-N9-C1'	6.14	137.36	126.30
1	N	201	G	N3-C4-C5	6.14	131.67	128.60
1	N	586	C	C2'-C3'-O3'	6.14	123.53	113.70
1	N	660	C	N3-C4-N4	6.14	122.30	118.00
1	N	684	U	C2-N3-C4	6.14	130.69	127.00
1	N	1261	A	C6-C5-N7	-6.14	128.00	132.30
1	N	1363	A	C5-C6-N6	-6.14	118.78	123.70
1	N	143	A	P-O3'-C3'	-6.14	112.33	119.70
1	N	384	G	C4-C5-C6	6.14	122.48	118.80
1	N	442	G	C6-C5-N7	-6.14	126.72	130.40
1	N	491	G	C8-N9-C4	-6.14	103.94	106.40
1	N	523	A	C5-C6-N1	-6.14	114.63	117.70
1	N	879	C	C3'-C2'-C1'	-6.14	96.59	101.50
1	N	1426	G	C6-C5-N7	-6.14	126.72	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	439	U	C1'-O4'-C4'	6.14	114.81	109.90
1	N	921	U	C2-N3-C4	-6.14	123.32	127.00
1	N	1165	U	N3-C4-C5	-6.14	110.92	114.60
1	N	1323	G	C5-N7-C8	-6.14	101.23	104.30
1	N	1365	G	C5-C6-O6	-6.14	124.92	128.60
1	N	1387	G	C3'-C2'-C1'	6.14	106.41	101.50
1	N	107	G	C8-N9-C4	-6.13	103.95	106.40
1	N	167	A	C8-N9-C4	-6.13	103.35	105.80
1	N	1030	U	P-O5'-C5'	-6.13	111.08	120.90
1	N	1397	C	N1-C2-N3	-6.13	114.91	119.20
1	N	1403	C	C5-C6-N1	6.13	124.07	121.00
1	N	169	C	P-O5'-C5'	6.13	130.71	120.90
1	N	313	A	N3-C4-N9	6.13	132.31	127.40
1	N	616	G	P-O3'-C3'	-6.13	112.34	119.70
1	N	1453	G	C6-C5-N7	-6.13	126.72	130.40
1	N	275	G	C4-C5-C6	6.13	122.48	118.80
1	N	278	G	C5-C6-O6	-6.13	124.92	128.60
1	N	458	U	P-O3'-C3'	6.13	127.06	119.70
1	N	1266	G	C2-N3-C4	-6.13	108.83	111.90
1	N	329	A	C4-C5-C6	6.13	120.06	117.00
1	N	398	U	C6-N1-C2	-6.13	117.32	121.00
1	N	784	A	N9-C1'-C2'	-6.13	105.26	112.00
1	N	155	A	C5-N7-C8	6.13	106.96	103.90
1	N	264	C	N3-C4-N4	6.13	122.29	118.00
1	N	663	A	P-O5'-C5'	6.13	130.70	120.90
1	N	919	A	C4'-C3'-C2'	-6.13	96.47	102.60
1	N	1132	C	C5-C4-N4	-6.13	115.91	120.20
1	N	1280	A	O5'-C5'-C4'	6.13	123.34	111.70
1	N	247	G	C2-N3-C4	-6.13	108.84	111.90
1	N	755	G	C2-N3-C4	6.13	114.96	111.90
1	N	925	G	O4'-C1'-N9	6.13	113.10	108.20
1	N	84	U	C2-N3-C4	-6.12	123.33	127.00
1	N	532	A	P-O5'-C5'	6.12	130.70	120.90
1	N	600	A	N3-C4-C5	-6.12	122.51	126.80
1	N	454	G	C3'-C2'-C1'	6.12	106.40	101.50
1	N	732	C	C4-C5-C6	6.12	120.46	117.40
1	N	969	A	O5'-P-OP2	6.12	118.05	110.70
1	N	1104	G	C4-C5-N7	-6.12	108.35	110.80
1	N	446	G	N7-C8-N9	-6.12	110.04	113.10
1	N	1279	G	C4-N9-C1'	6.12	134.46	126.50
1	N	370	C	N3-C4-C5	-6.12	119.45	121.90
1	N	440	C	N3-C2-O2	-6.12	117.62	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	628	G	O4'-C1'-N9	6.12	113.09	108.20
1	N	825	A	OP1-P-OP2	-6.12	110.42	119.60
1	N	1146	A	C5-N7-C8	6.12	106.96	103.90
1	N	862	C	O4'-C1'-N1	6.12	113.09	108.20
1	N	1255	G	C3'-C2'-C1'	6.12	106.39	101.50
1	N	411	A	C4'-C3'-C2'	6.11	108.71	102.60
1	N	557	G	O3'-P-O5'	-6.11	92.39	104.00
1	N	602	A	O4'-C1'-N9	6.11	113.09	108.20
1	N	6	G	N7-C8-N9	-6.11	110.05	113.10
1	N	28	A	O5'-P-OP1	6.11	118.03	110.70
1	N	467	U	N3-C2-O2	-6.11	117.92	122.20
1	N	1112	C	N3-C4-N4	6.11	122.28	118.00
1	N	1212	U	C4'-C3'-C2'	-6.11	96.49	102.60
1	N	605	U	N1-C2-N3	-6.11	111.24	114.90
1	N	705	G	P-O3'-C3'	6.11	127.03	119.70
1	N	761	G	C6-C5-N7	-6.11	126.74	130.40
1	N	1258	G	O4'-C1'-N9	6.11	113.08	108.20
1	N	266	G	C8-N9-C4	-6.10	103.96	106.40
1	N	522	C	N1-C2-O2	-6.10	115.24	118.90
1	N	698	G	O4'-C1'-N9	6.10	113.08	108.20
1	N	1361	G	N1-C2-N2	-6.10	110.71	116.20
1	N	337	G	C8-N9-C4	-6.10	103.96	106.40
1	N	520	A	P-O3'-C3'	6.10	127.02	119.70
1	N	601	G	C2-N3-C4	6.10	114.95	111.90
1	N	618	C	C4-C5-C6	6.10	120.45	117.40
1	N	1099	G	O4'-C1'-N9	6.10	113.08	108.20
1	N	1283	U	O3'-P-O5'	6.10	115.59	104.00
1	N	1334	G	O4'-C1'-N9	6.10	113.08	108.20
1	N	1338	G	O4'-C1'-N9	6.10	113.08	108.20
1	N	687	A	C6-C5-N7	-6.10	128.03	132.30
1	N	165	G	C5-C6-N1	-6.10	108.45	111.50
1	N	226	G	N3-C2-N2	6.10	124.17	119.90
1	N	63	C	N1-C2-O2	6.10	122.56	118.90
1	N	175	C	N3-C2-O2	6.10	126.17	121.90
1	N	313	A	C5-C6-N1	-6.10	114.65	117.70
1	N	360	G	C6-C5-N7	-6.10	126.74	130.40
1	N	612	C	O4'-C1'-N1	6.10	113.08	108.20
1	N	651	C	N3-C4-N4	6.10	122.27	118.00
1	N	815	A	C2-N3-C4	6.10	113.65	110.60
1	N	1409	C	C5-C6-N1	6.10	124.05	121.00
1	N	540	G	C4'-C3'-C2'	-6.10	96.50	102.60
1	N	645	G	C4-N9-C1'	-6.10	118.58	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	355	C	C4-C5-C6	-6.09	114.35	117.40
1	N	571	U	C3'-C2'-C1'	6.09	106.38	101.50
1	N	1072	G	C4-C5-C6	6.09	122.46	118.80
1	N	1108	G	N1-C2-N3	-6.09	120.24	123.90
1	N	1238	A	C6-N1-C2	6.09	122.26	118.60
1	N	1486	G	C6-C5-N7	-6.09	126.74	130.40
1	N	203	G	C6-N1-C2	6.09	128.76	125.10
1	N	400	C	C5-C4-N4	-6.09	115.94	120.20
1	N	1205	U	C5'-C4'-O4'	-6.09	101.79	109.10
1	N	141	G	C5-C6-N1	6.09	114.55	111.50
1	N	812	G	C5-C6-O6	-6.09	124.94	128.60
1	N	1159	U	C6-N1-C1'	-6.09	112.67	121.20
1	N	483	C	N1-C2-O2	-6.09	115.25	118.90
1	N	1223	C	C5'-C4'-O4'	6.09	116.41	109.10
1	N	1278	G	C1'-O4'-C4'	6.09	114.77	109.90
1	N	456	A	N1-C2-N3	6.09	132.34	129.30
1	N	475	C	C6-N1-C1'	-6.09	113.49	120.80
1	N	958	A	N3-C4-C5	-6.09	122.54	126.80
1	N	1380	U	N3-C4-C5	-6.09	110.95	114.60
1	N	852	G	C6-C5-N7	-6.09	126.75	130.40
1	N	1382	C	O4'-C1'-N1	6.09	113.07	108.20
1	N	1125	U	C5-C4-O4	-6.08	122.25	125.90
1	N	1228	C	P-O5'-C5'	-6.08	111.16	120.90
1	N	350	G	O4'-C1'-N9	6.08	113.07	108.20
1	N	499	A	C5'-C4'-O4'	6.08	116.40	109.10
1	N	855	U	P-O5'-C5'	-6.08	111.17	120.90
1	N	497	G	C6-C5-N7	-6.08	126.75	130.40
1	N	1107	C	C5-C4-N4	-6.08	115.94	120.20
1	N	7	A	N1-C2-N3	6.08	132.34	129.30
1	N	814	A	N3-C4-N9	6.08	132.26	127.40
1	N	1495	U	C5-C4-O4	6.08	129.55	125.90
1	N	70	U	C2-N1-C1'	6.08	125.00	117.70
1	N	273	U	P-O5'-C5'	6.08	130.62	120.90
1	N	594	U	C5'-C4'-O4'	6.08	116.39	109.10
1	N	664	G	C3'-C2'-C1'	6.08	106.36	101.50
1	N	908	A	C5-C6-N6	-6.08	118.84	123.70
1	N	1103	C	C6-N1-C2	-6.08	117.87	120.30
1	N	1148	U	C2-N1-C1'	6.08	124.99	117.70
1	N	1280	A	C4'-C3'-C2'	6.08	108.68	102.60
1	N	581	G	N9-C4-C5	-6.08	102.97	105.40
1	N	791	G	N1-C6-O6	6.08	123.55	119.90
1	N	987	G	C4-C5-C6	6.08	122.45	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	627	G	O4'-C1'-N9	6.08	113.06	108.20
1	N	661	G	C5-C6-N1	-6.08	108.46	111.50
1	N	1003	G	N3-C2-N2	6.08	124.15	119.90
1	N	1458	G	P-O5'-C5'	6.08	130.62	120.90
1	N	8	A	C2-N3-C4	-6.07	107.56	110.60
1	N	552	U	C2-N3-C4	-6.07	123.36	127.00
1	N	1178	G	N3-C4-N9	-6.07	122.36	126.00
1	N	43	C	N1-C1'-C2'	-6.07	105.32	112.00
1	N	841	C	N3-C4-C5	-6.07	119.47	121.90
1	N	1071	C	N3-C4-C5	-6.07	119.47	121.90
1	N	1210	C	P-O3'-C3'	6.07	126.99	119.70
1	N	1336	C	C2-N3-C4	6.07	122.94	119.90
1	N	146	G	C5'-C4'-C3'	-6.07	106.29	116.00
1	N	288	A	C5-C6-N1	-6.07	114.67	117.70
1	N	989	U	C5-C6-N1	6.07	125.73	122.70
1	N	172	A	C6-C5-N7	-6.07	128.05	132.30
1	N	520	A	N1-C2-N3	-6.07	126.27	129.30
1	N	705	G	P-O5'-C5'	6.07	130.61	120.90
1	N	1435	G	C6-C5-N7	-6.07	126.76	130.40
1	N	366	A	C2-N3-C4	-6.07	107.57	110.60
1	N	1467	C	C2-N1-C1'	6.07	125.47	118.80
1	N	181	A	C4'-C3'-C2'	-6.07	96.53	102.60
1	N	465	A	O4'-C1'-N9	6.07	113.05	108.20
1	N	218	U	O4'-C1'-N1	6.06	113.05	108.20
1	N	304	U	C4-C5-C6	-6.06	116.06	119.70
1	N	168	G	C4-C5-C6	6.06	122.44	118.80
1	N	1027	C	N1-C2-O2	-6.06	115.26	118.90
1	N	1365	G	OP1-P-OP2	-6.06	110.51	119.60
1	N	1415	G	N1-C6-O6	6.06	123.54	119.90
1	N	1353	G	P-O3'-C3'	-6.06	112.43	119.70
1	N	184	G	C5-C6-N1	6.06	114.53	111.50
1	N	627	G	C4'-C3'-C2'	-6.06	96.54	102.60
1	N	1032	G	C5-C6-N1	6.06	114.53	111.50
1	N	1299	A	C5-C6-N6	-6.06	118.85	123.70
1	N	1509	C	C2-N1-C1'	6.06	125.47	118.80
1	N	23	C	O4'-C1'-N1	6.06	113.05	108.20
1	N	129	A	C6-C5-N7	-6.06	128.06	132.30
1	N	572	A	C4-C5-N7	-6.06	107.67	110.70
1	N	642	A	C5-C6-N6	-6.06	118.86	123.70
1	N	117	G	N1-C2-N3	-6.06	120.27	123.90
1	N	953	G	N1-C6-O6	6.06	123.53	119.90
1	N	1427	C	N1-C2-N3	6.06	123.44	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	178	C	C2-N3-C4	6.05	122.93	119.90
1	N	363	A	C2-N3-C4	-6.05	107.57	110.60
1	N	569	C	N3-C2-O2	-6.05	117.66	121.90
1	N	894	G	N1-C2-N2	-6.05	110.75	116.20
1	N	1180	A	N3-C4-C5	-6.05	122.56	126.80
1	N	1344	C	C3'-C2'-C1'	6.05	106.34	101.50
1	N	1446	A	N3-C4-C5	-6.05	122.56	126.80
1	N	1461	G	N1-C6-O6	6.05	123.53	119.90
1	N	318	G	P-O5'-C5'	-6.05	111.22	120.90
1	N	464	U	O3'-P-O5'	-6.05	92.50	104.00
1	N	548	G	C8-N9-C1'	-6.05	119.13	127.00
1	N	584	G	N3-C4-N9	-6.05	122.37	126.00
1	N	484	G	C4'-C3'-C2'	6.05	108.65	102.60
1	N	710	G	C2-N3-C4	-6.05	108.88	111.90
1	N	1170	A	P-O5'-C5'	-6.05	111.22	120.90
1	N	1180	A	C4-C5-N7	-6.05	107.67	110.70
1	N	332	G	N7-C8-N9	-6.05	110.08	113.10
1	N	892	A	C5'-C4'-C3'	6.05	125.68	116.00
1	N	916	U	N3-C4-C5	-6.05	110.97	114.60
1	N	1251	A	C6-C5-N7	-6.05	128.07	132.30
1	N	1463	U	O4'-C1'-N1	6.05	113.04	108.20
1	N	976	G	N3-C4-N9	-6.05	122.37	126.00
1	N	1297	G	P-O3'-C3'	6.05	126.96	119.70
1	N	121	U	N3-C4-O4	6.05	123.63	119.40
1	N	240	G	O3'-P-O5'	-6.05	92.51	104.00
1	N	1124	G	N1-C2-N3	-6.05	120.27	123.90
1	N	319	G	C8-N9-C4	6.04	108.82	106.40
1	N	391	G	N3-C4-C5	-6.04	125.58	128.60
1	N	686	U	N3-C4-C5	-6.04	110.97	114.60
1	N	1377	A	N3-C4-C5	-6.04	122.57	126.80
1	N	49	U	P-O5'-C5'	6.04	130.57	120.90
1	N	101	A	C6-C5-N7	-6.04	128.07	132.30
1	N	328	C	N1-C2-N3	-6.04	114.97	119.20
1	N	954	G	C5-C6-N1	-6.04	108.48	111.50
1	N	966	G	C5-C6-O6	-6.04	124.97	128.60
1	N	972	C	N3-C4-N4	6.04	122.23	118.00
1	N	1395	C	O4'-C4'-C3'	-6.04	97.96	104.00
1	N	297	G	N1-C6-O6	6.04	123.53	119.90
1	N	906	A	C5-C6-N1	-6.04	114.68	117.70
1	N	1222	G	O4'-C1'-N9	6.04	113.03	108.20
1	N	1275	A	N1-C6-N6	6.04	122.22	118.60
1	N	1360	A	C4-C5-C6	6.04	120.02	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	86	G	O4'-C1'-N9	6.04	113.03	108.20
1	N	1018	G	N3-C4-C5	-6.04	125.58	128.60
1	N	1174	G	C2-N3-C4	-6.04	108.88	111.90
1	N	1202	U	N1-C1'-C2'	-6.04	105.36	112.00
1	N	1464	U	C2-N3-C4	6.04	130.62	127.00
1	N	320	A	C3'-C2'-C1'	6.04	106.33	101.50
1	N	499	A	C8-N9-C4	6.04	108.22	105.80
1	N	945	G	N7-C8-N9	-6.04	110.08	113.10
1	N	1492	A	N3-C4-C5	-6.04	122.57	126.80
1	N	10	A	N1-C2-N3	6.04	132.32	129.30
1	N	90	C	C4'-C3'-C2'	-6.04	96.56	102.60
1	N	172	A	N1-C6-N6	6.04	122.22	118.60
1	N	390	U	C6-N1-C2	-6.04	117.38	121.00
1	N	815	A	N9-C4-C5	6.04	108.21	105.80
1	N	1297	G	N3-C4-N9	6.04	129.62	126.00
1	N	417	G	C5-C6-N1	-6.03	108.48	111.50
1	N	691	G	C6-C5-N7	6.03	134.02	130.40
1	N	743	A	N9-C4-C5	-6.03	103.39	105.80
1	N	1007	U	C1'-O4'-C4'	6.03	114.73	109.90
1	N	1081	A	C5-C6-N1	-6.03	114.68	117.70
1	N	1178	G	O4'-C1'-N9	6.03	113.03	108.20
1	N	1202	U	N3-C4-C5	6.03	118.22	114.60
1	N	352	C	C2'-C3'-O3'	6.03	123.35	113.70
1	N	386	C	N3-C4-N4	6.03	122.22	118.00
1	N	581	G	C2-N3-C4	6.03	114.92	111.90
1	N	1273	C	N1-C2-O2	-6.03	115.28	118.90
1	N	1365	G	N7-C8-N9	-6.03	110.08	113.10
1	N	31	G	N1-C6-O6	6.03	123.52	119.90
1	N	384	G	C5-N7-C8	6.03	107.31	104.30
1	N	593	U	O4'-C1'-N1	6.03	113.02	108.20
1	N	718	A	C5'-C4'-C3'	-6.03	106.36	116.00
1	N	947	G	C8-N9-C4	-6.03	103.99	106.40
1	N	1023	U	C6-N1-C2	-6.03	117.38	121.00
1	N	1084	G	P-O3'-C3'	6.03	126.93	119.70
1	N	102	G	N1-C2-N2	-6.03	110.78	116.20
1	N	527	G	O4'-C1'-N9	6.03	113.02	108.20
1	N	554	A	C4-C5-C6	6.03	120.01	117.00
1	N	632	U	O3'-P-O5'	-6.03	92.55	104.00
1	N	792	A	C4-C5-C6	6.03	120.01	117.00
1	N	861	G	P-O3'-C3'	6.03	126.93	119.70
1	N	1360	A	C5-C6-N1	-6.03	114.69	117.70
1	N	657	U	P-O5'-C5'	6.02	130.54	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1059	C	N1-C2-N3	6.02	123.42	119.20
1	N	1108	G	C5-C6-N1	-6.02	108.49	111.50
1	N	277	C	C3'-C2'-C1'	-6.02	96.68	101.50
1	N	334	C	N3-C4-N4	6.02	122.22	118.00
1	N	1174	G	C8-N9-C4	6.02	108.81	106.40
1	N	1224	U	N3-C4-C5	-6.02	110.99	114.60
1	N	51	A	C2-N3-C4	-6.02	107.59	110.60
1	N	178	C	C4-C5-C6	-6.02	114.39	117.40
1	N	201	G	N1-C6-O6	6.02	123.51	119.90
1	N	312	C	C5-C4-N4	-6.02	115.99	120.20
1	N	1151	A	C2-N3-C4	-6.02	107.59	110.60
1	N	1253	G	C4-C5-N7	-6.02	108.39	110.80
1	N	84	U	N3-C4-C5	6.02	118.21	114.60
1	N	100	G	N7-C8-N9	6.02	116.11	113.10
1	N	214	C	C4-C5-C6	6.02	120.41	117.40
1	N	687	A	N3-C4-C5	-6.02	122.59	126.80
1	N	1114	C	C5-C4-N4	-6.02	115.99	120.20
1	N	927	G	C5-C6-O6	-6.02	124.99	128.60
1	N	1115	U	O5'-P-OP1	6.02	117.92	110.70
1	N	1196	A	C5-C6-N6	-6.02	118.89	123.70
1	N	120	A	C3'-C2'-C1'	-6.01	96.69	101.50
1	N	583	A	C6-N1-C2	-6.01	114.99	118.60
1	N	600	A	C6-C5-N7	-6.01	128.09	132.30
1	N	667	G	N3-C2-N2	-6.01	115.69	119.90
1	N	963	G	C6-C5-N7	-6.01	126.79	130.40
1	N	964	A	C4-C5-N7	-6.01	107.69	110.70
1	N	626	G	O4'-C1'-N9	6.01	113.01	108.20
1	N	829	G	N7-C8-N9	6.01	116.11	113.10
1	N	268	U	N3-C2-O2	6.01	126.41	122.20
1	N	934	C	C4-C5-C6	-6.01	114.39	117.40
1	N	1508	A	N9-C4-C5	6.01	108.20	105.80
1	N	181	A	C4-C5-C6	6.01	120.00	117.00
1	N	296	U	C5-C4-O4	-6.01	122.29	125.90
1	N	1033	G	P-O3'-C3'	-6.01	112.49	119.70
1	N	1507	A	C6-C5-N7	-6.01	128.09	132.30
1	N	437	U	P-O3'-C3'	-6.01	112.49	119.70
1	N	976	G	P-O3'-C3'	-6.01	112.49	119.70
1	N	993	G	N1-C2-N3	-6.01	120.30	123.90
1	N	1074	G	P-O3'-C3'	6.01	126.91	119.70
1	N	1287	A	C5-C6-N6	-6.01	118.89	123.70
1	N	1346	A	N1-C6-N6	6.01	122.20	118.60
1	N	110	C	C3'-C2'-C1'	6.00	106.30	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	318	G	N3-C4-C5	-6.00	125.60	128.60
1	N	719	C	N1-C2-N3	6.00	123.40	119.20
1	N	757	U	O4'-C1'-N1	6.00	113.00	108.20
1	N	804	U	O4'-C1'-N1	6.00	113.00	108.20
1	N	705	G	N1-C2-N3	-6.00	120.30	123.90
1	N	1088	G	C4-C5-N7	6.00	113.20	110.80
1	N	1166	G	O4'-C1'-N9	6.00	113.00	108.20
1	N	1300	G	C4'-C3'-C2'	-6.00	96.60	102.60
1	N	1533	C	C6-N1-C1'	-6.00	113.60	120.80
1	N	324	G	C3'-C2'-C1'	-6.00	96.70	101.50
1	N	354	G	N1-C6-O6	6.00	123.50	119.90
1	N	901	A	O4'-C1'-N9	6.00	113.00	108.20
1	N	371	A	C4-C5-C6	6.00	120.00	117.00
1	N	1439	G	N3-C4-C5	-6.00	125.60	128.60
1	N	104	G	C5'-C4'-O4'	6.00	116.30	109.10
1	N	588	G	N3-C2-N2	6.00	124.10	119.90
1	N	982	U	N3-C4-C5	6.00	118.20	114.60
1	N	1262	C	O4'-C1'-N1	6.00	113.00	108.20
1	N	1390	U	C5-C6-N1	6.00	125.70	122.70
1	N	140	U	C4'-C3'-C2'	-6.00	96.60	102.60
1	N	176	C	P-O5'-C5'	6.00	130.50	120.90
1	N	433	G	C1'-O4'-C4'	6.00	114.70	109.90
1	N	1036	A	P-O3'-C3'	6.00	126.89	119.70
1	N	1512	U	N3-C4-O4	6.00	123.60	119.40
1	N	304	U	C5-C6-N1	6.00	125.70	122.70
1	N	713	G	N3-C2-N2	6.00	124.10	119.90
1	N	739	C	C6-N1-C1'	-6.00	113.61	120.80
1	N	1404	C	N1-C2-O2	6.00	122.50	118.90
1	N	292	G	P-O3'-C3'	5.99	126.89	119.70
1	N	615	G	N1-C6-O6	5.99	123.50	119.90
1	N	990	C	C5-C4-N4	5.99	124.40	120.20
1	N	1516	G	C6-C5-N7	-5.99	126.80	130.40
1	N	312	C	N1-C2-N3	-5.99	115.01	119.20
1	N	11	G	C4-C5-C6	5.99	122.39	118.80
1	N	681	A	N1-C2-N3	5.99	132.29	129.30
1	N	723	U	N1-C2-O2	5.99	126.99	122.80
1	N	47	C	C2-N3-C4	-5.99	116.91	119.90
1	N	301	G	C2-N3-C4	5.99	114.89	111.90
1	N	403	C	C2-N3-C4	5.99	122.89	119.90
1	N	449	G	C1'-O4'-C4'	5.99	114.69	109.90
1	N	1216	A	C4'-C3'-C2'	-5.99	96.61	102.60
1	N	904	U	O4'-C1'-N1	5.99	112.99	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1117	A	N3-C4-C5	-5.99	122.61	126.80
1	N	223	A	N9-C1'-C2'	-5.99	105.42	112.00
1	N	262	A	O4'-C1'-N9	5.99	112.99	108.20
1	N	277	C	P-O3'-C3'	5.99	126.88	119.70
1	N	445	G	N9-C4-C5	5.99	107.79	105.40
1	N	622	A	N1-C2-N3	-5.99	126.31	129.30
1	N	729	A	O4'-C4'-C3'	-5.99	98.02	104.00
1	N	955	U	O4'-C1'-N1	5.99	112.99	108.20
1	N	1032	G	N1-C2-N3	-5.99	120.31	123.90
1	N	839	C	P-O3'-C3'	-5.98	112.52	119.70
1	N	210	C	N3-C4-C5	-5.98	119.51	121.90
1	N	1227	A	C4-C5-C6	5.98	119.99	117.00
1	N	1237	C	C5-C4-N4	-5.98	116.01	120.20
1	N	1267	C	C3'-C2'-C1'	-5.98	96.72	101.50
1	N	1340	A	C5-C6-N1	-5.98	114.71	117.70
1	N	478	A	C5-C6-N6	-5.98	118.92	123.70
1	N	1058	G	C4-C5-C6	5.98	122.39	118.80
1	N	1204	A	O4'-C4'-C3'	-5.98	98.02	104.00
1	N	408	A	C5-C6-N6	-5.98	118.92	123.70
1	N	1290	G	P-O3'-C3'	-5.98	112.53	119.70
1	N	39	G	C6-N1-C2	5.98	128.69	125.10
1	N	261	U	C2-N3-C4	-5.98	123.41	127.00
1	N	266	G	N1-C2-N3	-5.98	120.31	123.90
1	N	342	C	O4'-C1'-C2'	-5.98	99.82	105.80
1	N	852	G	N9-C4-C5	-5.98	103.01	105.40
1	N	1140	C	O4'-C1'-C2'	-5.98	99.82	105.80
1	N	1205	U	C5'-C4'-C3'	5.98	125.56	116.00
1	N	1384	C	N1-C2-O2	5.98	122.49	118.90
1	N	1133	G	N3-C4-C5	-5.98	125.61	128.60
1	N	583	A	N9-C4-C5	5.97	108.19	105.80
1	N	1179	A	P-O3'-C3'	5.97	126.87	119.70
1	N	1336	C	N3-C4-N4	5.97	122.18	118.00
1	N	1381	U	C5-C4-O4	-5.97	122.31	125.90
1	N	206	C	C6-N1-C1'	-5.97	113.63	120.80
1	N	739	C	N3-C4-N4	5.97	122.18	118.00
1	N	907	A	O4'-C1'-N9	5.97	112.98	108.20
1	N	1157	A	C2-N3-C4	-5.97	107.61	110.60
1	N	1458	G	C4'-C3'-C2'	-5.97	96.63	102.60
1	N	856	C	C4'-C3'-C2'	-5.97	96.63	102.60
1	N	145	G	C5-N7-C8	5.97	107.28	104.30
1	N	317	U	N3-C4-C5	-5.97	111.02	114.60
1	N	525	C	C4-C5-C6	5.97	120.38	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1154	G	C5'-C4'-C3'	-5.97	106.45	116.00
1	N	183	C	C2'-C3'-O3'	5.97	123.25	113.70
1	N	1373	G	C8-N9-C1'	5.97	134.76	127.00
1	N	1220	G	C6-N1-C2	5.97	128.68	125.10
1	N	64	G	N1-C6-O6	5.96	123.48	119.90
1	N	89	U	C4-C5-C6	-5.96	116.12	119.70
1	N	403	C	N3-C4-N4	5.96	122.17	118.00
1	N	643	C	C6-N1-C2	-5.96	117.91	120.30
1	N	1119	C	C5-C4-N4	-5.96	116.03	120.20
1	N	1143	G	C2-N3-C4	-5.96	108.92	111.90
1	N	1382	C	N3-C4-C5	-5.96	119.51	121.90
1	N	494	G	N1-C2-N3	-5.96	120.32	123.90
1	N	564	C	N3-C4-C5	-5.96	119.52	121.90
1	N	369	G	O4'-C1'-N9	5.96	112.97	108.20
1	N	603	U	C6-N1-C1'	5.96	129.55	121.20
1	N	615	G	OP2-P-O3'	5.96	118.31	105.20
1	N	723	U	N3-C2-O2	-5.96	118.03	122.20
1	N	832	G	N3-C4-N9	-5.96	122.42	126.00
1	N	1416	G	C1'-O4'-C4'	-5.96	105.13	109.90
1	N	379	C	C2-N1-C1'	5.96	125.36	118.80
1	N	15	G	N1-C6-O6	5.96	123.47	119.90
1	N	996	A	N1-C2-N3	5.96	132.28	129.30
1	N	1213	A	C5-C6-N1	-5.96	114.72	117.70
1	N	397	A	C2-N3-C4	5.96	113.58	110.60
1	N	482	A	N1-C2-N3	-5.96	126.32	129.30
1	N	919	A	C5-C6-N1	-5.96	114.72	117.70
1	N	1200	C	C2-N1-C1'	5.96	125.35	118.80
1	N	575	G	N7-C8-N9	-5.95	110.12	113.10
1	N	612	C	C5'-C4'-C3'	5.95	125.53	116.00
1	N	1459	G	N3-C2-N2	5.95	124.07	119.90
1	N	254	G	N1-C2-N3	-5.95	120.33	123.90
1	N	704	A	C6-N1-C2	-5.95	115.03	118.60
1	N	986	U	N3-C2-O2	5.95	126.37	122.20
1	N	1001	C	N3-C4-C5	-5.95	119.52	121.90
1	N	1060	U	C5-C6-N1	5.95	125.67	122.70
1	N	1194	U	P-O5'-C5'	-5.95	111.38	120.90
1	N	1361	G	N3-C2-N2	5.95	124.07	119.90
1	N	1426	G	N1-C6-O6	5.95	123.47	119.90
1	N	131	A	C8-N9-C1'	5.95	138.41	127.70
1	N	259	G	C5-C6-O6	-5.95	125.03	128.60
1	N	636	U	C5'-C4'-O4'	5.95	116.24	109.10
1	N	698	G	C5-C6-O6	-5.95	125.03	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1259	C	OP1-P-OP2	-5.95	110.68	119.60
1	N	322	C	C6-N1-C1'	-5.95	113.66	120.80
1	N	353	A	O4'-C4'-C3'	-5.95	98.05	104.00
1	N	503	C	C4-C5-C6	5.95	120.37	117.40
1	N	1230	C	P-O3'-C3'	5.95	126.84	119.70
1	N	1504	G	C5'-C4'-C3'	5.95	125.51	116.00
1	N	435	A	N1-C2-N3	-5.94	126.33	129.30
1	N	456	A	C5'-C4'-O4'	5.94	116.23	109.10
1	N	770	C	C5-C6-N1	5.94	123.97	121.00
1	N	1055	A	C4-C5-C6	5.94	119.97	117.00
1	N	1126	U	N1-C2-O2	-5.94	118.64	122.80
1	N	925	G	C8-N9-C4	-5.94	104.02	106.40
1	N	1385	G	P-O3'-C3'	-5.94	112.57	119.70
1	N	1534	A	P-O5'-C5'	-5.94	111.39	120.90
1	N	497	G	N1-C6-O6	5.94	123.46	119.90
1	N	790	A	C3'-C2'-C1'	-5.94	96.75	101.50
1	N	860	A	P-O3'-C3'	5.94	126.83	119.70
1	N	896	C	C4'-C3'-C2'	-5.94	96.66	102.60
1	N	1352	C	O4'-C1'-N1	5.94	112.95	108.20
1	N	1388	C	C4-C5-C6	5.94	120.37	117.40
1	N	335	C	N3-C2-O2	5.94	126.06	121.90
1	N	588	G	C5-C6-N1	-5.94	108.53	111.50
1	N	1394	A	C8-N9-C4	-5.94	103.42	105.80
1	N	156	C	O4'-C1'-N1	5.93	112.95	108.20
1	N	329	A	P-O3'-C3'	-5.93	112.58	119.70
1	N	609	A	C2-N3-C4	-5.93	107.63	110.60
1	N	909	A	O4'-C1'-N9	5.93	112.95	108.20
1	N	927	G	N9-C1'-C2'	-5.93	105.47	112.00
1	N	1064	G	P-O5'-C5'	-5.93	111.41	120.90
1	N	1310	G	C1'-O4'-C4'	-5.93	105.15	109.90
1	N	162	A	C5-C6-N6	-5.93	118.95	123.70
1	N	983	A	N3-C4-N9	5.93	132.15	127.40
1	N	497	G	P-O5'-C5'	5.93	130.39	120.90
1	N	497	G	N1-C2-N3	-5.93	120.34	123.90
1	N	232	G	C2-N3-C4	5.93	114.86	111.90
1	N	298	A	N1-C6-N6	5.93	122.16	118.60
1	N	691	G	O4'-C1'-N9	5.93	112.94	108.20
1	N	712	A	P-O5'-C5'	5.93	130.39	120.90
1	N	1047	G	C5-C6-O6	-5.93	125.04	128.60
1	N	1058	G	P-O5'-C5'	5.93	130.39	120.90
1	N	1499	A	C6-N1-C2	5.93	122.16	118.60
1	N	521	G	C5-C6-O6	-5.93	125.04	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	638	U	C5-C4-O4	-5.93	122.34	125.90
1	N	310	G	C5-N7-C8	5.93	107.26	104.30
1	N	588	G	N7-C8-N9	5.93	116.06	113.10
1	N	548	G	N3-C2-N2	5.92	124.05	119.90
1	N	637	C	O5'-P-OP1	-5.92	100.37	105.70
1	N	1279	G	N7-C8-N9	5.92	116.06	113.10
1	N	15	G	C5-C6-N1	-5.92	108.54	111.50
1	N	730	G	C8-N9-C4	-5.92	104.03	106.40
1	N	337	G	C4'-C3'-C2'	-5.92	96.68	102.60
1	N	131	A	C4'-C3'-C2'	5.92	108.52	102.60
1	N	1209	C	N1-C2-N3	-5.92	115.06	119.20
1	N	529	G	N3-C2-N2	5.92	124.04	119.90
1	N	574	A	O4'-C4'-C3'	-5.92	98.08	104.00
1	N	763	G	N1-C2-N2	-5.92	110.87	116.20
1	N	820	U	P-O5'-C5'	5.92	130.37	120.90
1	N	956	U	C5-C4-O4	5.92	129.45	125.90
1	N	1263	C	C6-N1-C1'	-5.92	113.70	120.80
1	N	1441	A	N1-C6-N6	5.92	122.15	118.60
1	N	1509	C	C4-C5-C6	5.92	120.36	117.40
1	N	158	G	N9-C4-C5	5.92	107.77	105.40
1	N	1159	U	N3-C4-O4	5.92	123.54	119.40
1	N	1177	G	N7-C8-N9	5.92	116.06	113.10
1	N	1199	U	C3'-C2'-C1'	5.92	106.23	101.50
1	N	1365	G	C6-C5-N7	-5.92	126.85	130.40
1	N	1407	C	N1-C2-N3	5.92	123.34	119.20
1	N	925	G	C3'-C2'-C1'	5.92	106.23	101.50
1	N	1211	U	P-O5'-C5'	-5.92	111.44	120.90
1	N	1493	A	N3-C4-N9	5.92	132.13	127.40
1	N	104	G	C8-N9-C4	5.91	108.77	106.40
1	N	462	G	C2-N3-C4	-5.91	108.94	111.90
1	N	665	A	N1-C6-N6	5.91	122.15	118.60
1	N	771	G	N3-C4-N9	5.91	129.55	126.00
1	N	796	C	C3'-C2'-C1'	5.91	106.23	101.50
1	N	803	G	O4'-C4'-C3'	-5.91	98.09	104.00
1	N	973	G	N1-C2-N3	-5.91	120.35	123.90
1	N	1469	C	N1-C2-N3	-5.91	115.06	119.20
1	N	95	C	C4'-C3'-C2'	5.91	108.51	102.60
1	N	102	G	O4'-C1'-N9	5.91	112.93	108.20
1	N	315	A	C8-N9-C4	-5.91	103.44	105.80
1	N	425	G	P-O5'-C5'	5.91	130.36	120.90
1	N	608	A	C4'-C3'-C2'	-5.91	96.69	102.60
1	N	619	U	C4-C5-C6	-5.91	116.15	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	718	A	C6-N1-C2	-5.91	115.05	118.60
1	N	499	A	C4-C5-N7	5.91	113.65	110.70
1	N	938	A	C4-C5-N7	-5.91	107.75	110.70
1	N	1294	G	OP1-P-OP2	-5.91	110.74	119.60
1	N	334	C	C2-N3-C4	5.91	122.85	119.90
1	N	657	U	N3-C4-C5	5.91	118.14	114.60
1	N	903	G	N3-C4-C5	-5.91	125.65	128.60
1	N	1390	U	N3-C4-C5	-5.91	111.06	114.60
1	N	134	G	C6-C5-N7	-5.91	126.86	130.40
1	N	1102	A	C4-C5-C6	5.90	119.95	117.00
1	N	121	U	O4'-C4'-C3'	-5.90	98.10	104.00
1	N	140	U	C2'-C3'-O3'	5.90	123.14	113.70
1	N	366	A	C6-N1-C2	5.90	122.14	118.60
1	N	462	G	C4-C5-C6	5.90	122.34	118.80
1	N	491	G	O4'-C1'-N9	5.90	112.92	108.20
1	N	757	U	C6-N1-C2	5.90	124.54	121.00
1	N	270	A	C5-C6-N6	-5.90	118.98	123.70
1	N	749	A	N1-C2-N3	5.90	132.25	129.30
1	N	1153	G	C6-C5-N7	-5.90	126.86	130.40
1	N	1507	A	O4'-C1'-N9	5.90	112.92	108.20
1	N	417	G	C6-N1-C2	5.90	128.64	125.10
1	N	421	U	N3-C4-O4	5.90	123.53	119.40
1	N	582	C	N3-C4-N4	5.90	122.13	118.00
1	N	884	U	N3-C2-O2	5.90	126.33	122.20
1	N	1458	G	O3'-P-O5'	5.90	115.21	104.00
1	N	1486	G	O4'-C1'-N9	5.90	112.92	108.20
1	N	302	G	C5-N7-C8	5.89	107.25	104.30
1	N	694	A	C8-N9-C4	-5.89	103.44	105.80
1	N	821	G	O4'-C1'-N9	5.89	112.92	108.20
1	N	959	A	C4-C5-C6	5.89	119.95	117.00
1	N	1050	G	C5-C6-N1	-5.89	108.55	111.50
1	N	1143	G	O4'-C1'-N9	5.89	112.92	108.20
1	N	1364	U	C4-C5-C6	-5.89	116.16	119.70
1	N	1518	A	C8-N9-C4	-5.89	103.44	105.80
1	N	237	G	C4-C5-N7	-5.89	108.44	110.80
1	N	442	G	C6-N1-C2	5.89	128.63	125.10
1	N	618	C	C3'-C2'-C1'	-5.89	96.79	101.50
1	N	859	G	P-O3'-C3'	5.89	126.77	119.70
1	N	973	G	O4'-C1'-N9	5.89	112.92	108.20
1	N	975	A	P-O5'-C5'	5.89	130.33	120.90
1	N	1090	U	C4'-C3'-C2'	-5.89	96.71	102.60
1	N	1154	G	C5-N7-C8	-5.89	101.35	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1199	U	C5-C4-O4	5.89	129.44	125.90
1	N	1289	A	N1-C2-N3	5.89	132.25	129.30
1	N	1526	G	N3-C4-N9	5.89	129.54	126.00
1	N	96	U	N3-C2-O2	5.89	126.32	122.20
1	N	384	G	C4-C5-N7	-5.89	108.44	110.80
1	N	1095	U	N3-C2-O2	5.89	126.32	122.20
1	N	1400	C	P-O5'-C5'	-5.89	111.47	120.90
1	N	631	C	O4'-C1'-C2'	-5.89	99.91	105.80
1	N	1463	U	O4'-C4'-C3'	-5.89	98.11	104.00
1	N	742	G	N3-C2-N2	5.89	124.02	119.90
1	N	961	U	N3-C2-O2	5.89	126.32	122.20
1	N	973	G	C6-C5-N7	-5.89	126.87	130.40
1	N	1356	G	C5-C6-N1	-5.89	108.56	111.50
1	N	1412	C	C4'-C3'-C2'	-5.88	96.72	102.60
1	N	1150	A	C6-C5-N7	-5.88	128.18	132.30
1	N	1181	G	C5'-C4'-C3'	-5.88	106.59	116.00
1	N	1495	U	O4'-C1'-C2'	-5.88	99.92	105.80
1	N	289	G	C8-N9-C4	-5.88	104.05	106.40
1	N	555	U	C5'-C4'-C3'	5.88	125.41	116.00
1	N	559	A	C4-C5-C6	-5.88	114.06	117.00
1	N	1024	G	C5-C6-O6	-5.88	125.07	128.60
1	N	1178	G	N1-C2-N2	-5.88	110.91	116.20
1	N	459	A	C6-C5-N7	-5.88	128.18	132.30
1	N	497	G	C6-N1-C2	-5.88	121.57	125.10
1	N	1206	G	P-O5'-C5'	5.88	130.31	120.90
1	N	242	G	C6-N1-C2	-5.88	121.57	125.10
1	N	1365	G	C1'-O4'-C4'	5.88	114.60	109.90
1	N	493	A	C5-N7-C8	5.88	106.84	103.90
1	N	847	G	C6-C5-N7	-5.88	126.87	130.40
1	N	960	U	O4'-C1'-N1	5.88	112.90	108.20
1	N	1087	G	C6-C5-N7	-5.88	126.87	130.40
1	N	358	U	N3-C4-O4	5.88	123.51	119.40
1	N	759	A	C6-N1-C2	5.88	122.12	118.60
1	N	1036	A	N1-C2-N3	-5.88	126.36	129.30
1	N	1318	A	P-O5'-C5'	5.88	130.30	120.90
1	N	410	G	N3-C4-C5	-5.87	125.66	128.60
1	N	788	U	O5'-C5'-C4'	5.87	122.86	111.70
1	N	192	A	C4-C5-C6	5.87	119.94	117.00
1	N	707	U	O4'-C1'-N1	5.87	112.90	108.20
1	N	807	A	N1-C2-N3	5.87	132.24	129.30
1	N	5	U	P-O5'-C5'	-5.87	111.51	120.90
1	N	204	G	C4-C5-N7	-5.87	108.45	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	685	G	N9-C4-C5	-5.87	103.05	105.40
1	N	831	A	C5-N7-C8	5.87	106.83	103.90
1	N	941	G	N9-C1'-C2'	-5.87	105.54	112.00
1	N	1248	A	N1-C6-N6	5.87	122.12	118.60
1	N	1295	U	C3'-C2'-C1'	5.87	106.19	101.50
1	N	1336	C	C3'-C2'-C1'	5.87	106.19	101.50
1	N	1449	C	C5-C6-N1	5.87	123.93	121.00
1	N	11	G	N7-C8-N9	5.87	116.03	113.10
1	N	589	U	C5-C6-N1	-5.87	119.77	122.70
1	N	803	G	C5-C6-N1	-5.87	108.57	111.50
1	N	985	C	N3-C4-C5	-5.87	119.55	121.90
1	N	125	U	O4'-C1'-N1	5.87	112.89	108.20
1	N	297	G	C4-C5-C6	5.87	122.32	118.80
1	N	795	C	P-O5'-C5'	5.87	130.29	120.90
1	N	1457	G	O4'-C1'-N9	5.87	112.89	108.20
1	N	1033	G	C1'-O4'-C4'	5.86	114.59	109.90
1	N	1131	G	N1-C2-N2	5.86	121.48	116.20
1	N	1367	C	P-O5'-C5'	5.86	130.28	120.90
1	N	77	A	P-O5'-C5'	-5.86	111.52	120.90
1	N	399	G	C5-C6-O6	-5.86	125.08	128.60
1	N	720	C	C1'-O4'-C4'	-5.86	105.21	109.90
1	N	95	C	N3-C4-C5	-5.86	119.56	121.90
1	N	611	C	O4'-C1'-N1	5.86	112.89	108.20
1	N	728	A	N1-C2-N3	-5.86	126.37	129.30
1	N	1128	C	P-O3'-C3'	5.86	126.73	119.70
1	N	707	U	C5-C6-N1	-5.86	119.77	122.70
1	N	858	G	N3-C4-C5	-5.86	125.67	128.60
1	N	1083	U	C5-C4-O4	5.86	129.41	125.90
1	N	369	G	N9-C4-C5	-5.86	103.06	105.40
1	N	624	C	N1-C2-O2	-5.86	115.39	118.90
1	N	877	G	N9-C4-C5	-5.86	103.06	105.40
1	N	1262	C	C2-N1-C1'	5.86	125.24	118.80
1	N	1338	G	C6-N1-C2	5.86	128.61	125.10
1	N	413	G	P-O3'-C3'	5.85	126.72	119.70
1	N	447	G	C3'-C2'-C1'	-5.85	96.82	101.50
1	N	310	G	C3'-C2'-C1'	-5.85	96.82	101.50
1	N	994	A	C8-N9-C4	-5.85	103.46	105.80
1	N	1526	G	N3-C4-C5	-5.85	125.67	128.60
1	N	784	A	C4-C5-N7	5.85	113.62	110.70
1	N	1383	C	C4-C5-C6	-5.85	114.47	117.40
1	N	297	G	C8-N9-C1'	5.85	134.60	127.00
1	N	490	C	C5-C6-N1	5.85	123.92	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	565	U	P-O5'-C5'	-5.85	111.54	120.90
1	N	718	A	P-O3'-C3'	5.85	126.72	119.70
1	N	815	A	C4-C5-N7	-5.85	107.78	110.70
1	N	1368	A	C6-C5-N7	-5.85	128.21	132.30
1	N	324	G	N3-C2-N2	5.85	123.99	119.90
1	N	632	U	C2-N3-C4	5.85	130.51	127.00
1	N	724	G	C8-N9-C4	-5.85	104.06	106.40
1	N	752	G	C5-C6-O6	-5.85	125.09	128.60
1	N	754	C	C6-N1-C2	-5.85	117.96	120.30
1	N	1109	C	P-O3'-C3'	5.85	126.72	119.70
1	N	963	G	C4-C5-C6	5.85	122.31	118.80
1	N	1414	U	O4'-C1'-N1	5.85	112.88	108.20
1	N	337	G	C2-N3-C4	5.84	114.82	111.90
1	N	1035	A	P-O3'-C3'	-5.84	112.69	119.70
1	N	1107	C	N3-C2-O2	5.84	125.99	121.90
1	N	326	G	C5-N7-C8	-5.84	101.38	104.30
1	N	416	G	C5-N7-C8	-5.84	101.38	104.30
1	N	1456	A	C6-C5-N7	-5.84	128.21	132.30
1	N	116	A	C4-C5-C6	5.84	119.92	117.00
1	N	149	A	C8-N9-C4	-5.84	103.46	105.80
1	N	333	U	O4'-C1'-N1	5.84	112.87	108.20
1	N	780	A	P-O5'-C5'	5.84	130.25	120.90
1	N	1080	A	C6-N1-C2	5.84	122.11	118.60
1	N	73	C	O4'-C1'-C2'	-5.84	99.96	105.80
1	N	75	G	C5'-C4'-C3'	-5.84	106.66	116.00
1	N	296	U	C2-N1-C1'	5.84	124.71	117.70
1	N	1409	C	C5-C4-N4	-5.84	116.11	120.20
1	N	26	A	C5-C6-N6	-5.84	119.03	123.70
1	N	93	U	O4'-C4'-C3'	-5.84	98.16	104.00
1	N	223	A	O4'-C1'-N9	5.84	112.87	108.20
1	N	958	A	C4-C5-N7	-5.84	107.78	110.70
1	N	1105	A	N3-C4-C5	-5.84	122.71	126.80
1	N	933	G	N1-C6-O6	5.83	123.40	119.90
1	N	997	U	C2-N3-C4	-5.83	123.50	127.00
1	N	1281	C	O4'-C1'-N1	5.83	112.87	108.20
1	N	1484	C	C1'-O4'-C4'	5.83	114.57	109.90
1	N	1519	A	C2-N3-C4	5.83	113.52	110.60
1	N	697	U	C4'-C3'-C2'	-5.83	96.77	102.60
1	N	722	G	N3-C2-N2	5.83	123.98	119.90
1	N	769	G	C6-C5-N7	-5.83	126.90	130.40
1	N	990	C	N1-C2-O2	-5.83	115.40	118.90
1	N	1356	G	N1-C2-N3	-5.83	120.40	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	308	C	C5'-C4'-O4'	-5.83	102.10	109.10
1	N	222	C	P-O3'-C3'	-5.83	112.71	119.70
1	N	1088	G	C6-C5-N7	-5.83	126.90	130.40
1	N	1245	C	P-O5'-C5'	5.83	130.23	120.90
1	N	1271	A	C4-C5-N7	-5.83	107.79	110.70
1	N	1278	G	C4-N9-C1'	5.83	134.08	126.50
1	N	1204	A	N9-C4-C5	-5.83	103.47	105.80
1	N	1476	A	C4-C5-C6	5.83	119.91	117.00
1	N	41	G	C4-C5-C6	5.83	122.30	118.80
1	N	53	A	C8-N9-C4	-5.83	103.47	105.80
1	N	1001	C	C4'-C3'-C2'	-5.83	96.78	102.60
1	N	1058	G	C5-C6-N1	-5.83	108.59	111.50
1	N	1170	A	N3-C4-C5	-5.83	122.72	126.80
1	N	1500	A	C3'-C2'-C1'	5.83	106.16	101.50
1	N	194	C	N3-C4-C5	-5.82	119.57	121.90
1	N	585	G	P-O5'-C5'	-5.82	111.58	120.90
1	N	610	U	C5'-C4'-O4'	5.82	116.09	109.10
1	N	662	U	C5-C6-N1	5.82	125.61	122.70
1	N	922	G	P-O3'-C3'	5.82	126.69	119.70
1	N	1126	U	P-O3'-C3'	-5.82	112.71	119.70
1	N	423	G	C4-C5-N7	-5.82	108.47	110.80
1	N	1336	C	O4'-C1'-C2'	-5.82	99.98	105.80
1	N	66	A	C6-C5-N7	-5.82	128.22	132.30
1	N	83	C	N3-C4-N4	5.82	122.08	118.00
1	N	491	G	C4'-C3'-C2'	5.82	108.42	102.60
1	N	496	A	C5'-C4'-O4'	5.82	116.08	109.10
1	N	668	G	C8-N9-C4	5.82	108.73	106.40
1	N	260	G	C4-C5-N7	-5.82	108.47	110.80
1	N	645	G	C8-N9-C4	-5.82	104.07	106.40
1	N	773	G	N1-C2-N3	-5.82	120.41	123.90
1	N	865	A	O4'-C4'-C3'	-5.82	98.18	104.00
1	N	1143	G	P-O3'-C3'	5.82	126.68	119.70
1	N	564	C	C1'-O4'-C4'	-5.82	105.25	109.90
1	N	762	U	C5-C4-O4	-5.82	122.41	125.90
1	N	906	A	O4'-C1'-N9	5.82	112.85	108.20
1	N	1297	G	N3-C4-C5	-5.82	125.69	128.60
1	N	969	A	OP1-P-OP2	-5.81	110.88	119.60
1	N	498	A	N3-C4-C5	-5.81	122.73	126.80
1	N	568	G	N3-C4-N9	-5.81	122.51	126.00
1	N	727	G	C4-C5-C6	5.81	122.29	118.80
1	N	1034	G	C5-C6-N1	-5.81	108.59	111.50
1	N	1305	G	N9-C4-C5	5.81	107.72	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	17	U	N3-C4-O4	5.81	123.47	119.40
1	N	418	C	C5-C4-N4	-5.81	116.13	120.20
1	N	98	A	C4-C5-N7	-5.81	107.80	110.70
1	N	384	G	C6-N1-C2	5.81	128.59	125.10
1	N	1457	G	C2-N3-C4	-5.81	109.00	111.90
1	N	602	A	C4-C5-N7	-5.81	107.80	110.70
1	N	1166	G	N1-C2-N2	-5.81	110.97	116.20
1	N	81	A	C5'-C4'-O4'	-5.81	102.13	109.10
1	N	386	C	C2-N1-C1'	5.81	125.19	118.80
1	N	351	G	C6-C5-N7	-5.80	126.92	130.40
1	N	481	G	N1-C2-N3	-5.80	120.42	123.90
1	N	1074	G	C4-C5-C6	5.80	122.28	118.80
1	N	1292	G	O4'-C1'-N9	5.80	112.84	108.20
1	N	580	C	N3-C2-O2	5.80	125.96	121.90
1	N	1028	C	C5-C4-N4	-5.80	116.14	120.20
1	N	500	G	P-O3'-C3'	5.80	126.66	119.70
1	N	667	G	C4-C5-N7	-5.80	108.48	110.80
1	N	692	U	C5-C4-O4	5.80	129.38	125.90
1	N	1022	A	C5-N7-C8	-5.80	101.00	103.90
1	N	1026	G	N1-C2-N3	-5.80	120.42	123.90
1	N	1029	U	C5'-C4'-O4'	5.80	116.06	109.10
1	N	1051	C	O3'-P-O5'	-5.80	92.98	104.00
1	N	1101	A	N9-C4-C5	5.80	108.12	105.80
1	N	1438	G	C8-N9-C4	-5.80	104.08	106.40
1	N	16	A	C2-N3-C4	-5.80	107.70	110.60
1	N	677	U	N1-C2-O2	-5.80	118.74	122.80
1	N	1055	A	N9-C4-C5	-5.80	103.48	105.80
1	N	284	C	O5'-C5'-C4'	-5.80	100.69	111.70
1	N	303	A	C3'-C2'-C1'	-5.80	96.86	101.50
1	N	802	A	C4'-C3'-C2'	-5.80	96.80	102.60
1	N	933	G	C6-N1-C2	-5.80	121.62	125.10
1	N	1183	U	O4'-C1'-N1	5.80	112.84	108.20
1	N	1275	A	C5'-C4'-O4'	5.80	116.06	109.10
1	N	1308	U	C2-N1-C1'	5.80	124.66	117.70
1	N	1519	A	C6-N1-C2	5.80	122.08	118.60
1	N	1452	C	C5-C4-N4	-5.79	116.14	120.20
1	N	583	A	C5-N7-C8	5.79	106.80	103.90
1	N	1423	G	C2-N3-C4	-5.79	109.00	111.90
1	N	1481	U	C2-N3-C4	5.79	130.47	127.00
1	N	104	G	N7-C8-N9	-5.79	110.20	113.10
1	N	470	C	C5-C4-N4	-5.79	116.15	120.20
1	N	960	U	C1'-O4'-C4'	-5.79	105.27	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	983	A	C5-N7-C8	5.79	106.80	103.90
1	N	319	G	N3-C2-N2	5.79	123.95	119.90
1	N	517	G	OP2-P-O3'	5.79	117.93	105.20
1	N	674	G	C6-C5-N7	-5.79	126.93	130.40
1	N	1211	U	C6-N1-C2	-5.79	117.53	121.00
1	N	97	G	C5-C6-N1	5.79	114.39	111.50
1	N	450	G	N3-C4-N9	-5.79	122.53	126.00
1	N	1484	C	N3-C4-C5	-5.79	119.58	121.90
1	N	422	C	C1'-O4'-C4'	5.79	114.53	109.90
1	N	593	U	N3-C2-O2	5.79	126.25	122.20
1	N	1202	U	O4'-C4'-C3'	-5.79	98.21	104.00
1	N	1232	U	O4'-C4'-C3'	-5.79	98.21	104.00
1	N	1292	G	O4'-C4'-C3'	-5.79	98.22	104.00
1	N	10	A	C6-N1-C2	-5.78	115.13	118.60
1	N	1277	C	C5-C4-N4	-5.78	116.15	120.20
1	N	158	G	C6-N1-C2	-5.78	121.63	125.10
1	N	246	A	N1-C6-N6	5.78	122.07	118.60
1	N	398	U	C2-N1-C1'	5.78	124.64	117.70
1	N	587	G	C2'-C3'-O3'	5.78	122.95	113.70
1	N	962	C	P-O3'-C3'	-5.78	112.76	119.70
1	N	1160	G	N1-C2-N3	-5.78	120.43	123.90
1	N	629	A	N9-C4-C5	5.78	108.11	105.80
1	N	1051	C	O4'-C1'-N1	5.78	112.83	108.20
1	N	1080	A	C3'-C2'-C1'	5.78	106.12	101.50
1	N	1091	U	N1-C1'-C2'	5.78	121.52	114.00
1	N	1174	G	C1'-O4'-C4'	-5.78	105.28	109.90
1	N	1200	C	C2-N3-C4	5.78	122.79	119.90
1	N	1327	C	C5-C6-N1	5.78	123.89	121.00
1	N	228	A	N7-C8-N9	5.78	116.69	113.80
1	N	454	G	O4'-C1'-N9	5.78	112.82	108.20
1	N	639	G	C4-N9-C1'	5.78	134.01	126.50
1	N	819	A	C3'-C2'-C1'	-5.78	96.88	101.50
1	N	972	C	C5-C6-N1	-5.78	118.11	121.00
1	N	1022	A	C6-C5-N7	-5.78	128.26	132.30
1	N	1152	A	P-O3'-C3'	-5.78	112.77	119.70
1	N	1497	G	N1-C6-O6	5.78	123.37	119.90
1	N	29	U	C2-N3-C4	5.78	130.47	127.00
1	N	33	A	N9-C1'-C2'	-5.78	105.65	112.00
1	N	354	G	N3-C4-N9	5.78	129.47	126.00
1	N	446	G	C5-C6-N1	-5.78	108.61	111.50
1	N	875	U	N1-C2-N3	-5.78	111.44	114.90
1	N	1093	A	C4-C5-N7	-5.78	107.81	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	708	C	N3-C4-N4	5.77	122.04	118.00
1	N	1041	G	C5'-C4'-O4'	5.77	116.03	109.10
1	N	257	G	C6-N1-C2	5.77	128.56	125.10
1	N	336	A	C6-N1-C2	5.77	122.06	118.60
1	N	1190	G	N9-C1'-C2'	-5.77	105.65	112.00
1	N	1195	C	N3-C2-O2	5.77	125.94	121.90
1	N	1316	G	C6-C5-N7	-5.77	126.94	130.40
1	N	1375	A	C1'-O4'-C4'	-5.77	105.28	109.90
1	N	1463	U	N1-C2-O2	-5.77	118.76	122.80
1	N	502	A	C6-N1-C2	5.77	122.06	118.60
1	N	716	A	N9-C4-C5	-5.77	103.49	105.80
1	N	1075	U	C6-N1-C2	5.77	124.46	121.00
1	N	1275	A	C8-N9-C4	5.77	108.11	105.80
1	N	1496	C	O4'-C1'-N1	5.77	112.81	108.20
1	N	1502	A	C2-N3-C4	-5.77	107.72	110.60
1	N	485	U	N3-C4-C5	-5.76	111.14	114.60
1	N	596	A	C8-N9-C4	5.76	108.11	105.80
1	N	1449	C	N3-C4-C5	-5.76	119.59	121.90
1	N	1477	U	C5'-C4'-O4'	5.76	116.02	109.10
1	N	1508	A	P-O3'-C3'	-5.76	112.78	119.70
1	N	584	G	P-O5'-C5'	5.76	130.12	120.90
1	N	859	G	C5-N7-C8	-5.76	101.42	104.30
1	N	864	A	C2-N3-C4	-5.76	107.72	110.60
1	N	1238	A	N7-C8-N9	5.76	116.68	113.80
1	N	1258	G	C2-N3-C4	5.76	114.78	111.90
1	N	66	A	C5-N7-C8	5.76	106.78	103.90
1	N	126	G	OP1-P-OP2	-5.76	110.96	119.60
1	N	485	U	N1-C2-N3	-5.76	111.44	114.90
1	N	1222	G	N1-C2-N3	-5.76	120.44	123.90
1	N	22	G	N3-C4-C5	5.76	131.48	128.60
1	N	687	A	C5-C6-N1	-5.76	114.82	117.70
1	N	232	G	N7-C8-N9	-5.76	110.22	113.10
1	N	366	A	O4'-C1'-C2'	-5.76	100.04	105.80
1	N	998	C	C2-N1-C1'	5.76	125.13	118.80
1	N	1081	A	N3-C4-C5	-5.76	122.77	126.80
1	N	1174	G	N3-C4-C5	5.76	131.48	128.60
1	N	1289	A	C5-N7-C8	5.76	106.78	103.90
1	N	1314	C	N3-C4-N4	5.76	122.03	118.00
1	N	260	G	C4-C5-C6	5.75	122.25	118.80
1	N	388	G	C4'-C3'-C2'	5.75	108.36	102.60
1	N	1380	U	C4'-C3'-C2'	-5.75	96.84	102.60
1	N	1404	C	C5-C4-N4	-5.75	116.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	57	G	C5-C6-O6	-5.75	125.15	128.60
1	N	168	G	N9-C1'-C2'	-5.75	105.67	112.00
1	N	474	G	N1-C6-O6	5.75	123.35	119.90
1	N	1178	G	C8-N9-C4	-5.75	104.10	106.40
1	N	558	G	N1-C2-N2	-5.75	111.02	116.20
1	N	1029	U	C1'-O4'-C4'	5.75	114.50	109.90
1	N	1203	C	C4-C5-C6	5.75	120.28	117.40
1	N	678	U	O4'-C4'-C3'	-5.75	98.25	104.00
1	N	827	U	N1-C2-N3	-5.75	111.45	114.90
1	N	1082	A	C5-C6-N6	-5.75	119.10	123.70
1	N	1242	G	C5-C6-O6	-5.75	125.15	128.60
1	N	685	G	N1-C2-N3	-5.75	120.45	123.90
1	N	780	A	N7-C8-N9	5.75	116.67	113.80
1	N	1064	G	C5-N7-C8	-5.75	101.43	104.30
1	N	1074	G	C8-N9-C4	5.75	108.70	106.40
1	N	1253	G	N9-C4-C5	5.75	107.70	105.40
1	N	1344	C	N3-C2-O2	-5.75	117.88	121.90
1	N	300	A	O4'-C1'-N9	5.75	112.80	108.20
1	N	520	A	C2-N3-C4	5.75	113.47	110.60
1	N	565	U	C2-N1-C1'	-5.75	110.81	117.70
1	N	786	G	N1-C2-N3	-5.75	120.45	123.90
1	N	1529	G	N3-C4-C5	-5.75	125.73	128.60
1	N	159	G	C6-N1-C2	5.75	128.55	125.10
1	N	818	G	C4-C5-C6	5.75	122.25	118.80
1	N	1148	U	C6-N1-C2	-5.75	117.55	121.00
1	N	1198	G	N1-C2-N2	5.75	121.37	116.20
1	N	44	A	C6-N1-C2	-5.74	115.15	118.60
1	N	97	G	N3-C2-N2	-5.74	115.88	119.90
1	N	749	A	N7-C8-N9	5.74	116.67	113.80
1	N	829	G	P-O3'-C3'	-5.74	112.81	119.70
1	N	1284	C	C2-N3-C4	-5.74	117.03	119.90
1	N	1345	U	O3'-P-O5'	-5.74	93.09	104.00
1	N	1527	U	C2-N3-C4	-5.74	123.56	127.00
1	N	26	A	C6-C5-N7	-5.74	128.28	132.30
1	N	115	G	O4'-C1'-N9	5.74	112.79	108.20
1	N	119	A	C6-C5-N7	-5.74	128.28	132.30
1	N	933	G	N9-C4-C5	-5.74	103.10	105.40
1	N	1495	U	C3'-C2'-C1'	5.74	106.09	101.50
1	N	75	G	N1-C6-O6	5.74	123.34	119.90
1	N	165	G	C5-N7-C8	-5.74	101.43	104.30
1	N	897	C	C3'-C2'-C1'	-5.74	96.91	101.50
1	N	909	A	C5-C6-N6	-5.74	119.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1353	G	C4-C5-C6	5.74	122.24	118.80
1	N	1278	G	C6-N1-C2	5.74	128.54	125.10
1	N	474	G	N9-C4-C5	-5.74	103.11	105.40
1	N	480	U	O3'-P-O5'	-5.74	93.10	104.00
1	N	1049	U	C5-C4-O4	5.74	129.34	125.90
1	N	1303	C	C5'-C4'-O4'	-5.74	102.22	109.10
1	N	526	C	C4-C5-C6	5.73	120.27	117.40
1	N	675	A	C6-N1-C2	5.73	122.04	118.60
1	N	941	G	C4-C5-C6	5.73	122.24	118.80
1	N	23	C	C2-N1-C1'	5.73	125.11	118.80
1	N	65	A	C4-C5-N7	-5.73	107.83	110.70
1	N	338	A	C4-C5-C6	5.73	119.87	117.00
1	N	379	C	N3-C2-O2	5.73	125.91	121.90
1	N	453	G	O4'-C1'-N9	5.73	112.79	108.20
1	N	501	C	N1-C1'-C2'	5.73	121.45	114.00
1	N	670	G	N3-C4-N9	-5.73	122.56	126.00
1	N	770	C	C5'-C4'-C3'	5.73	125.17	116.00
1	N	1204	A	C8-N9-C4	5.73	108.09	105.80
1	N	1229	A	C6-C5-N7	-5.73	128.29	132.30
1	N	1494	G	N9-C4-C5	5.73	107.69	105.40
1	N	699	C	N1-C2-N3	5.73	123.21	119.20
1	N	808	C	C2-N3-C4	-5.73	117.03	119.90
1	N	900	A	C5-C6-N6	-5.73	119.12	123.70
1	N	951	G	C1'-O4'-C4'	-5.73	105.32	109.90
1	N	1343	G	C5-C6-O6	-5.73	125.16	128.60
1	N	1418	A	C5-N7-C8	5.73	106.77	103.90
1	N	1475	G	C5-C6-O6	-5.73	125.16	128.60
1	N	322	C	N3-C2-O2	5.73	125.91	121.90
1	N	468	A	C5-C6-N6	-5.73	119.12	123.70
1	N	639	G	N9-C4-C5	5.73	107.69	105.40
1	N	803	G	N9-C4-C5	5.73	107.69	105.40
1	N	425	G	C8-N9-C4	-5.73	104.11	106.40
1	N	573	A	N7-C8-N9	-5.73	110.94	113.80
1	N	1162	C	C5-C4-N4	-5.73	116.19	120.20
1	N	1470	U	C4'-C3'-C2'	-5.73	96.87	102.60
1	N	486	U	N1-C2-O2	-5.73	118.79	122.80
1	N	1440	U	C1'-O4'-C4'	-5.73	105.32	109.90
1	N	24	U	N3-C2-O2	5.72	126.21	122.20
1	N	236	A	P-O3'-C3'	-5.72	112.83	119.70
1	N	155	A	C8-N9-C4	5.72	108.09	105.80
1	N	330	C	C2-N3-C4	5.72	122.76	119.90
1	N	745	G	N3-C4-N9	5.72	129.43	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	976	G	OP2-P-O3'	5.72	117.79	105.20
1	N	1195	C	O4'-C1'-N1	5.72	112.78	108.20
1	N	1233	G	C2-N3-C4	5.72	114.76	111.90
1	N	1448	C	N3-C2-O2	5.72	125.91	121.90
1	N	239	U	P-O3'-C3'	5.72	126.56	119.70
1	N	467	U	O4'-C4'-C3'	-5.72	98.28	104.00
1	N	737	C	P-O5'-C5'	5.72	130.05	120.90
1	N	68	G	N3-C2-N2	5.72	123.90	119.90
1	N	181	A	N3-C4-C5	-5.72	122.80	126.80
1	N	696	A	C5-N7-C8	5.72	106.76	103.90
1	N	833	G	N9-C4-C5	5.72	107.69	105.40
1	N	1028	C	P-O5'-C5'	-5.72	111.75	120.90
1	N	1280	A	C5-C6-N6	-5.72	119.12	123.70
1	N	93	U	P-O3'-C3'	-5.72	112.84	119.70
1	N	362	G	N7-C8-N9	5.72	115.96	113.10
1	N	677	U	N3-C2-O2	5.72	126.20	122.20
1	N	228	A	C4-C5-C6	5.72	119.86	117.00
1	N	908	A	P-O3'-C3'	5.72	126.56	119.70
1	N	903	G	C4'-C3'-C2'	-5.71	96.89	102.60
1	N	1060	U	P-O3'-C3'	-5.71	112.84	119.70
1	N	1458	G	C4-C5-N7	5.71	113.09	110.80
1	N	1013	G	N1-C2-N3	-5.71	120.47	123.90
1	N	338	A	O5'-C5'-C4'	-5.71	100.85	111.70
1	N	641	U	N3-C2-O2	-5.71	118.20	122.20
1	N	878	A	O5'-C5'-C4'	-5.71	100.85	111.70
1	N	996	A	O4'-C1'-N9	5.71	112.77	108.20
1	N	1111	A	P-O5'-C5'	-5.71	111.76	120.90
1	N	1505	G	O4'-C1'-N9	5.71	112.77	108.20
1	N	78	A	P-O3'-C3'	5.71	126.55	119.70
1	N	114	U	N3-C4-C5	-5.71	111.17	114.60
1	N	248	C	C6-N1-C2	-5.71	118.02	120.30
1	N	538	G	C5-C6-O6	-5.71	125.17	128.60
1	N	685	G	OP2-P-O3'	5.71	117.76	105.20
1	N	362	G	C5-C6-O6	5.71	132.02	128.60
1	N	387	U	N1-C2-N3	5.71	118.32	114.90
1	N	396	C	C5'-C4'-O4'	5.71	115.95	109.10
1	N	1015	G	N3-C2-N2	5.71	123.89	119.90
1	N	1326	U	C2-N1-C1'	-5.71	110.85	117.70
1	N	1261	A	N1-C2-N3	5.71	132.15	129.30
1	N	505	G	C5'-C4'-O4'	5.70	115.94	109.10
1	N	784	A	C8-N9-C4	5.70	108.08	105.80
1	N	1017	U	N1-C2-N3	-5.70	111.48	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1267	C	N3-C2-O2	-5.70	117.91	121.90
1	N	562	U	C5-C6-N1	5.70	125.55	122.70
1	N	821	G	N3-C2-N2	5.70	123.89	119.90
1	N	960	U	N3-C2-O2	5.70	126.19	122.20
1	N	1374	A	O4'-C4'-C3'	-5.70	98.30	104.00
1	N	1378	C	N1-C2-O2	-5.70	115.48	118.90
1	N	129	A	C2'-C3'-O3'	5.70	122.82	113.70
1	N	235	C	C5-C6-N1	5.70	123.85	121.00
1	N	405	U	N3-C4-O4	5.70	123.39	119.40
1	N	568	G	C4'-C3'-C2'	-5.70	96.90	102.60
1	N	1259	C	N3-C4-N4	5.70	121.99	118.00
1	N	1364	U	C6-N1-C1'	-5.70	113.22	121.20
1	N	1470	U	N1-C1'-C2'	-5.70	105.73	112.00
1	N	295	C	C6-N1-C1'	-5.70	113.96	120.80
1	N	898	G	C5-C6-N1	5.70	114.35	111.50
1	N	1198	G	N3-C4-C5	-5.70	125.75	128.60
1	N	1247	U	N3-C4-O4	-5.70	115.41	119.40
1	N	1317	C	N1-C2-O2	5.70	122.32	118.90
1	N	474	G	P-O3'-C3'	-5.70	112.86	119.70
1	N	1132	C	OP2-P-O3'	5.70	117.73	105.20
1	N	1234	C	C5-C4-N4	-5.70	116.21	120.20
1	N	442	G	N7-C8-N9	-5.70	110.25	113.10
1	N	1098	C	C2-N3-C4	5.70	122.75	119.90
1	N	1261	A	O4'-C4'-C3'	-5.70	98.30	104.00
1	N	340	U	O4'-C4'-C3'	-5.69	98.31	104.00
1	N	419	C	N3-C4-N4	5.69	121.99	118.00
1	N	586	C	OP2-P-O3'	5.69	117.73	105.20
1	N	694	A	N3-C4-N9	-5.69	122.84	127.40
1	N	755	G	O4'-C1'-N9	5.69	112.76	108.20
1	N	169	C	C2-N1-C1'	5.69	125.06	118.80
1	N	201	G	C2-N3-C4	-5.69	109.05	111.90
1	N	683	G	N3-C2-N2	5.69	123.89	119.90
1	N	1131	G	C5'-C4'-O4'	5.69	115.93	109.10
1	N	1427	C	O4'-C1'-N1	5.69	112.75	108.20
1	N	1481	U	C5-C6-N1	-5.69	119.85	122.70
1	N	73	C	C1'-O4'-C4'	5.69	114.45	109.90
1	N	1057	G	O4'-C1'-N9	5.69	112.75	108.20
1	N	1471	U	C5-C4-O4	-5.69	122.49	125.90
1	N	151	A	N9-C4-C5	5.69	108.08	105.80
1	N	224	U	N1-C2-O2	5.69	126.78	122.80
1	N	499	A	C2'-C3'-O3'	5.69	122.80	113.70
1	N	565	U	C2-N3-C4	-5.69	123.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	740	U	C2-N1-C1'	-5.69	110.87	117.70
1	N	842	U	C5-C6-N1	5.69	125.55	122.70
1	N	1124	G	C4-C5-C6	5.69	122.21	118.80
1	N	1213	A	N9-C4-C5	5.69	108.08	105.80
1	N	127	G	C6-N1-C2	5.69	128.51	125.10
1	N	654	G	O4'-C1'-N9	5.69	112.75	108.20
1	N	403	C	C4'-C3'-C2'	-5.69	96.91	102.60
1	N	465	A	C6-C5-N7	-5.69	128.32	132.30
1	N	501	C	C5'-C4'-O4'	5.69	115.92	109.10
1	N	506	G	N1-C6-O6	5.69	123.31	119.90
1	N	849	G	O4'-C1'-N9	5.69	112.75	108.20
1	N	126	G	N9-C4-C5	-5.68	103.13	105.40
1	N	291	U	C5-C4-O4	5.68	129.31	125.90
1	N	1362	A	C4-N9-C1'	5.68	136.53	126.30
1	N	848	C	C2-N3-C4	-5.68	117.06	119.90
1	N	950	U	C4'-C3'-C2'	-5.68	96.92	102.60
1	N	1230	C	N3-C4-C5	-5.68	119.63	121.90
1	N	1415	G	C2-N3-C4	-5.68	109.06	111.90
1	N	1433	A	N1-C2-N3	5.68	132.14	129.30
1	N	1477	U	C2-N3-C4	-5.68	123.59	127.00
1	N	126	G	C8-N9-C4	5.68	108.67	106.40
1	N	214	C	N3-C4-N4	5.68	121.98	118.00
1	N	306	A	C2-N3-C4	5.68	113.44	110.60
1	N	512	U	C5-C6-N1	5.68	125.54	122.70
1	N	658	C	P-O3'-C3'	-5.68	112.89	119.70
1	N	850	U	C5-C4-O4	-5.68	122.49	125.90
1	N	1193	G	C2-N3-C4	5.68	114.74	111.90
1	N	1344	C	N1-C2-O2	5.68	122.31	118.90
1	N	1441	A	C5-C6-N6	-5.68	119.16	123.70
1	N	921	U	N1-C1'-C2'	-5.68	105.75	112.00
1	N	1265	C	C6-N1-C1'	-5.68	113.99	120.80
1	N	240	G	C4'-C3'-C2'	-5.68	96.92	102.60
1	N	563	A	O4'-C1'-N9	5.68	112.74	108.20
1	N	620	C	N1-C2-N3	-5.68	115.23	119.20
1	N	1196	A	C6-N1-C2	5.68	122.01	118.60
1	N	1398	A	C4-C5-N7	5.68	113.54	110.70
1	N	68	G	C5'-C4'-O4'	-5.67	102.29	109.10
1	N	161	A	N9-C4-C5	-5.67	103.53	105.80
1	N	391	G	C4-N9-C1'	-5.67	119.12	126.50
1	N	464	U	P-O3'-C3'	5.67	126.51	119.70
1	N	551	U	N1-C1'-C2'	-5.67	105.76	112.00
1	N	561	U	C6-N1-C2	-5.67	117.59	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	738	C	C3'-C2'-C1'	5.67	106.04	101.50
1	N	937	A	C2-N3-C4	5.67	113.44	110.60
1	N	1037	C	C6-N1-C2	-5.67	118.03	120.30
1	N	1408	A	C5-N7-C8	5.67	106.74	103.90
1	N	294	U	N3-C2-O2	5.67	126.17	122.20
1	N	437	U	C6-N1-C2	-5.67	117.60	121.00
1	N	269	C	C4-C5-C6	-5.67	114.56	117.40
1	N	409	U	C3'-C2'-C1'	5.67	106.04	101.50
1	N	1358	U	C4'-C3'-C2'	5.67	108.27	102.60
1	N	1429	A	C6-C5-N7	-5.67	128.33	132.30
1	N	91	U	C5-C6-N1	5.67	125.53	122.70
1	N	550	G	C4-C5-C6	5.67	122.20	118.80
1	N	1489	G	C8-N9-C4	5.67	108.67	106.40
1	N	102	G	C5-N7-C8	5.67	107.13	104.30
1	N	139	A	C6-C5-N7	-5.67	128.33	132.30
1	N	342	C	N3-C4-N4	5.67	121.97	118.00
1	N	380	G	C3'-C2'-C1'	-5.67	96.97	101.50
1	N	717	U	C3'-C2'-C1'	5.67	106.03	101.50
1	N	1132	C	C1'-O4'-C4'	5.67	114.44	109.90
1	N	1192	C	N1-C2-O2	5.67	122.30	118.90
1	N	1440	U	N3-C4-C5	-5.67	111.20	114.60
1	N	108	G	C5-N7-C8	5.67	107.13	104.30
1	N	1097	C	O4'-C1'-N1	5.67	112.73	108.20
1	N	1250	A	C5-N7-C8	5.67	106.73	103.90
1	N	74	A	O4'-C1'-N9	5.67	112.73	108.20
1	N	141	G	C2-N3-C4	-5.67	109.07	111.90
1	N	793	U	C4-C5-C6	5.67	123.10	119.70
1	N	201	G	N3-C2-N2	5.66	123.86	119.90
1	N	792	A	C6-C5-N7	-5.66	128.34	132.30
1	N	1303	C	C2-N3-C4	5.66	122.73	119.90
1	N	1523	G	C4-C5-N7	5.66	113.06	110.80
1	N	646	G	N1-C2-N2	5.66	121.30	116.20
1	N	476	U	N3-C4-O4	5.66	123.36	119.40
1	N	527	G	C5-C6-N1	-5.66	108.67	111.50
1	N	1110	A	C4-C5-N7	-5.66	107.87	110.70
1	N	1394	A	C5'-C4'-C3'	-5.66	106.94	116.00
1	N	159	G	O4'-C1'-N9	5.66	112.73	108.20
1	N	428	G	N3-C2-N2	5.66	123.86	119.90
1	N	917	G	N3-C4-C5	5.66	131.43	128.60
1	N	1152	A	C5'-C4'-C3'	-5.66	106.95	116.00
1	N	1180	A	O4'-C1'-N9	5.66	112.73	108.20
1	N	205	A	C6-C5-N7	-5.66	128.34	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	685	G	C5-C6-O6	-5.66	125.21	128.60
1	N	893	C	C5'-C4'-C3'	5.66	125.05	116.00
1	N	981	U	N1-C2-O2	-5.66	118.84	122.80
1	N	1279	G	C5-C6-O6	-5.66	125.21	128.60
1	N	1531	A	C5-C6-N6	-5.66	119.17	123.70
1	N	648	A	C6-N1-C2	5.66	121.99	118.60
1	N	1058	G	C4-N9-C1'	5.66	133.85	126.50
1	N	1152	A	C5-C6-N6	-5.66	119.18	123.70
1	N	282	A	C5-N7-C8	5.65	106.73	103.90
1	N	484	G	N3-C4-N9	-5.65	122.61	126.00
1	N	1159	U	C2-N3-C4	-5.65	123.61	127.00
1	N	392	C	C2-N3-C4	5.65	122.73	119.90
1	N	424	G	O4'-C1'-N9	5.65	112.72	108.20
1	N	431	A	C5-N7-C8	5.65	106.73	103.90
1	N	471	U	C6-N1-C2	-5.65	117.61	121.00
1	N	779	C	C3'-C2'-C1'	5.65	106.02	101.50
1	N	1194	U	C5-C4-O4	-5.65	122.51	125.90
1	N	1294	G	C4-C5-C6	-5.65	115.41	118.80
1	N	1327	C	N3-C4-N4	5.65	121.96	118.00
1	N	1364	U	C5-C4-O4	-5.65	122.51	125.90
1	N	316	C	C5'-C4'-O4'	5.65	115.88	109.10
1	N	903	G	C4-C5-N7	-5.65	108.54	110.80
1	N	979	C	N1-C2-N3	-5.65	115.25	119.20
1	N	1186	G	N9-C4-C5	-5.65	103.14	105.40
1	N	1362	A	C1'-O4'-C4'	-5.65	105.38	109.90
1	N	1365	G	C4-C5-C6	5.65	122.19	118.80
1	N	154	U	N1-C2-N3	5.65	118.29	114.90
1	N	523	A	N7-C8-N9	5.65	116.62	113.80
1	N	902	G	C4-C5-N7	5.65	113.06	110.80
1	N	985	C	OP2-P-O3'	5.65	117.62	105.20
1	N	353	A	N3-C4-C5	-5.65	122.85	126.80
1	N	992	U	C2-N3-C4	-5.65	123.61	127.00
1	N	1396	A	C5-C6-N1	-5.65	114.88	117.70
1	N	90	C	N3-C4-N4	5.64	121.95	118.00
1	N	192	A	N1-C2-N3	5.64	132.12	129.30
1	N	211	G	C2-N3-C4	-5.64	109.08	111.90
1	N	393	A	C4'-C3'-C2'	-5.64	96.95	102.60
1	N	1095	U	O4'-C4'-C3'	-5.64	98.36	104.00
1	N	1373	G	N3-C2-N2	5.64	123.85	119.90
1	N	14	U	C2-N1-C1'	5.64	124.47	117.70
1	N	232	G	C6-C5-N7	-5.64	127.01	130.40
1	N	250	A	C5-C6-N1	-5.64	114.88	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	408	A	N3-C4-C5	-5.64	122.85	126.80
1	N	712	A	C2-N3-C4	-5.64	107.78	110.60
1	N	1053	G	O4'-C1'-N9	5.64	112.71	108.20
1	N	1106	G	N1-C2-N3	-5.64	120.51	123.90
1	N	1334	G	N1-C6-O6	5.64	123.28	119.90
1	N	1446	A	N3-C4-N9	5.64	131.91	127.40
1	N	872	A	N9-C1'-C2'	5.64	121.33	114.00
1	N	289	G	C4-C5-C6	5.64	122.18	118.80
1	N	388	G	C8-N9-C4	-5.64	104.14	106.40
1	N	514	C	C3'-C2'-C1'	-5.64	96.99	101.50
1	N	525	C	N3-C4-N4	5.64	121.95	118.00
1	N	826	C	C5-C6-N1	5.64	123.82	121.00
1	N	837	U	C4'-C3'-C2'	-5.64	96.96	102.60
1	N	1281	C	C4'-C3'-C2'	5.64	108.24	102.60
1	N	80	A	C5-C6-N1	-5.64	114.88	117.70
1	N	109	A	P-O5'-C5'	5.64	129.92	120.90
1	N	990	C	O4'-C4'-C3'	-5.64	98.36	104.00
1	N	30	U	C5'-C4'-C3'	5.64	125.02	116.00
1	N	508	U	P-O3'-C3'	5.64	126.46	119.70
1	N	718	A	O4'-C1'-N9	5.64	112.71	108.20
1	N	264	C	C6-N1-C2	-5.63	118.05	120.30
1	N	329	A	C5-C6-N1	-5.63	114.88	117.70
1	N	881	G	N1-C6-O6	5.63	123.28	119.90
1	N	942	G	C8-N9-C1'	5.63	134.32	127.00
1	N	1107	C	C5-C6-N1	5.63	123.82	121.00
1	N	1385	G	N3-C4-N9	-5.63	122.62	126.00
1	N	255	G	OP2-P-O3'	5.63	117.59	105.20
1	N	457	G	P-O5'-C5'	-5.63	111.89	120.90
1	N	457	G	C6-C5-N7	-5.63	127.02	130.40
1	N	641	U	O3'-P-O5'	-5.63	93.30	104.00
1	N	731	G	N3-C4-N9	-5.63	122.62	126.00
1	N	892	A	N7-C8-N9	-5.63	110.98	113.80
1	N	898	G	N1-C2-N3	-5.63	120.52	123.90
1	N	1318	A	N3-C4-N9	5.63	131.91	127.40
1	N	1368	A	C5-N7-C8	-5.63	101.08	103.90
1	N	188	C	C6-N1-C2	-5.63	118.05	120.30
1	N	1243	C	O4'-C1'-N1	5.63	112.70	108.20
1	N	151	A	C5'-C4'-C3'	-5.63	107.00	116.00
1	N	344	A	C5-C6-N1	-5.63	114.89	117.70
1	N	429	U	OP1-P-OP2	-5.63	111.16	119.60
1	N	878	A	N1-C2-N3	5.63	132.11	129.30
1	N	917	G	N1-C2-N3	-5.63	120.52	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	58	C	C2-N3-C4	5.63	122.71	119.90
1	N	513	C	C2-N1-C1'	5.63	124.99	118.80
1	N	952	U	N1-C2-N3	-5.63	111.52	114.90
1	N	1295	U	C2-N3-C4	5.63	130.38	127.00
1	N	1506	U	C4'-C3'-C2'	5.63	108.23	102.60
1	N	773	G	P-O3'-C3'	5.62	126.45	119.70
1	N	818	G	N3-C4-C5	-5.62	125.79	128.60
1	N	1244	G	C3'-C2'-C1'	-5.62	97.00	101.50
1	N	415	A	C8-N9-C4	-5.62	103.55	105.80
1	N	891	U	C5-C6-N1	5.62	125.51	122.70
1	N	982	U	C3'-C2'-C1'	5.62	106.00	101.50
1	N	1122	U	O4'-C1'-N1	5.62	112.70	108.20
1	N	1206	G	C6-N1-C2	5.62	128.47	125.10
1	N	1352	C	C6-N1-C2	5.62	122.55	120.30
1	N	255	G	C5-N7-C8	5.62	107.11	104.30
1	N	451	A	C5-N7-C8	5.62	106.71	103.90
1	N	458	U	N1-C2-O2	-5.62	118.86	122.80
1	N	500	G	N9-C1'-C2'	-5.62	105.82	112.00
1	N	718	A	C2-N3-C4	-5.62	107.79	110.60
1	N	858	G	C4-C5-C6	5.62	122.17	118.80
1	N	1160	G	C2-N3-C4	5.62	114.71	111.90
1	N	1261	A	C5-N7-C8	5.62	106.71	103.90
1	N	1335	U	C5-C4-O4	-5.62	122.53	125.90
1	N	1411	C	N3-C4-C5	-5.62	119.65	121.90
1	N	498	A	O4'-C1'-N9	5.62	112.70	108.20
1	N	1479	C	C3'-C2'-C1'	-5.62	97.00	101.50
1	N	254	G	P-O5'-C5'	5.62	129.89	120.90
1	N	260	G	C5-C6-N1	-5.62	108.69	111.50
1	N	412	A	N1-C2-N3	-5.62	126.49	129.30
1	N	1472	U	C5'-C4'-C3'	5.62	124.99	116.00
1	N	14	U	C6-N1-C2	-5.62	117.63	121.00
1	N	1459	G	N1-C6-O6	5.62	123.27	119.90
1	N	125	U	N3-C4-C5	-5.62	111.23	114.60
1	N	571	U	P-O3'-C3'	5.62	126.44	119.70
1	N	606	G	C4'-C3'-C2'	5.62	108.22	102.60
1	N	645	G	C4-C5-C6	5.62	122.17	118.80
1	N	1201	A	C8-N9-C4	-5.62	103.55	105.80
1	N	1230	C	N3-C4-N4	5.62	121.93	118.00
1	N	1528	U	C2-N1-C1'	5.62	124.44	117.70
1	N	569	C	P-O5'-C5'	5.61	129.88	120.90
1	N	800	G	C5-N7-C8	5.61	107.11	104.30
1	N	1219	A	N1-C2-N3	5.61	132.11	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	477	C	O4'-C1'-N1	5.61	112.69	108.20
1	N	516	U	N3-C2-O2	5.61	126.13	122.20
1	N	1532	U	N1-C2-O2	-5.61	118.87	122.80
1	N	136	C	C5'-C4'-C3'	5.61	124.97	116.00
1	N	168	G	C6-C5-N7	-5.61	127.03	130.40
1	N	596	A	C6-C5-N7	-5.61	128.37	132.30
1	N	753	A	N1-C2-N3	5.61	132.10	129.30
1	N	971	G	C5-C6-O6	-5.61	125.23	128.60
1	N	1172	C	N3-C4-C5	-5.61	119.66	121.90
1	N	1179	A	C5-C6-N6	-5.61	119.21	123.70
1	N	1491	G	O4'-C1'-N9	5.61	112.69	108.20
1	N	1501	C	O4'-C4'-C3'	-5.61	98.39	104.00
1	N	126	G	C3'-C2'-C1'	5.61	105.99	101.50
1	N	1396	A	N3-C4-N9	-5.61	122.91	127.40
1	N	103	U	N1-C2-O2	5.61	126.72	122.80
1	N	618	C	C6-N1-C2	-5.61	118.06	120.30
1	N	748	G	C4-N9-C1'	5.61	133.79	126.50
1	N	1292	G	N3-C2-N2	5.61	123.83	119.90
1	N	1339	A	O4'-C1'-N9	5.61	112.69	108.20
1	N	1474	U	P-O3'-C3'	5.61	126.43	119.70
1	N	905	U	C4-C5-C6	-5.61	116.34	119.70
1	N	961	U	N1-C2-O2	-5.61	118.88	122.80
1	N	1339	A	C5-C6-N6	-5.61	119.22	123.70
1	N	2	A	N9-C4-C5	5.60	108.04	105.80
1	N	15	G	N1-C2-N3	-5.60	120.54	123.90
1	N	118	U	O4'-C1'-N1	5.60	112.68	108.20
1	N	309	A	C5-N7-C8	5.60	106.70	103.90
1	N	580	C	C2-N3-C4	5.60	122.70	119.90
1	N	674	G	O4'-C1'-N9	5.60	112.68	108.20
1	N	452	A	O4'-C1'-N9	5.60	112.68	108.20
1	N	806	C	C4-C5-C6	-5.60	114.60	117.40
1	N	908	A	P-O5'-C5'	5.60	129.86	120.90
1	N	527	G	O4'-C4'-C3'	-5.60	98.40	104.00
1	N	1328	C	C3'-C2'-C1'	5.60	105.98	101.50
1	N	1353	G	N3-C2-N2	5.60	123.82	119.90
1	N	89	U	N1-C2-N3	-5.60	111.54	114.90
1	N	542	G	O4'-C4'-C3'	-5.60	98.40	104.00
1	N	1323	G	C5'-C4'-O4'	-5.60	102.39	109.10
1	N	238	A	C5-N7-C8	5.59	106.70	103.90
1	N	839	C	C6-N1-C1'	-5.59	114.09	120.80
1	N	250	A	C6-C5-N7	-5.59	128.38	132.30
1	N	633	G	P-O5'-C5'	5.59	129.85	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	926	G	C5-N7-C8	5.59	107.10	104.30
1	N	1144	G	C2-N3-C4	5.59	114.70	111.90
1	N	1399	C	N3-C4-N4	5.59	121.92	118.00
1	N	431	A	C5-C6-N6	-5.59	119.23	123.70
1	N	473	U	N3-C4-O4	5.59	123.31	119.40
1	N	582	C	P-O5'-C5'	5.59	129.85	120.90
1	N	1052	U	C4-C5-C6	-5.59	116.34	119.70
1	N	1370	G	C6-N1-C2	5.59	128.45	125.10
1	N	94	G	N1-C2-N3	-5.59	120.55	123.90
1	N	572	A	N3-C4-C5	-5.59	122.89	126.80
1	N	1518	A	C6-N1-C2	5.59	121.95	118.60
1	N	34	C	N1-C2-O2	5.59	122.25	118.90
1	N	127	G	P-O5'-C5'	5.59	129.84	120.90
1	N	781	A	O4'-C1'-N9	5.59	112.67	108.20
1	N	258	G	C6-C5-N7	-5.58	127.05	130.40
1	N	1100	C	N3-C4-N4	5.58	121.91	118.00
1	N	1202	U	C5'-C4'-C3'	5.58	124.94	116.00
1	N	63	C	C3'-C2'-C1'	5.58	105.97	101.50
1	N	371	A	C5-C6-N6	-5.58	119.23	123.70
1	N	590	U	OP1-P-OP2	-5.58	111.22	119.60
1	N	1167	A	C6-C5-N7	-5.58	128.39	132.30
1	N	1178	G	C4-N9-C1'	5.58	133.76	126.50
1	N	1396	A	P-O3'-C3'	5.58	126.40	119.70
1	N	374	A	N7-C8-N9	-5.58	111.01	113.80
1	N	601	G	N1-C6-O6	5.58	123.25	119.90
1	N	449	G	C5-C6-O6	-5.58	125.25	128.60
1	N	724	G	C1'-O4'-C4'	5.58	114.36	109.90
1	N	759	A	O4'-C1'-N9	5.58	112.66	108.20
1	N	3	A	P-O3'-C3'	-5.58	113.00	119.70
1	N	72	A	C3'-C2'-C1'	-5.58	97.04	101.50
1	N	598	U	C5-C6-N1	5.58	125.49	122.70
1	N	688	G	C5-N7-C8	-5.58	101.51	104.30
1	N	1013	G	P-O3'-C3'	5.58	126.39	119.70
1	N	1214	C	C4-C5-C6	-5.58	114.61	117.40
1	N	1424	U	C4'-C3'-C2'	-5.58	97.02	102.60
1	N	1452	C	O5'-P-OP1	5.58	117.39	110.70
1	N	294	U	C1'-O4'-C4'	5.58	114.36	109.90
1	N	419	C	C5-C4-N4	-5.58	116.30	120.20
1	N	455	G	C5-C6-N1	-5.58	108.71	111.50
1	N	997	U	C4-C5-C6	-5.58	116.35	119.70
1	N	1068	G	N9-C4-C5	-5.58	103.17	105.40
1	N	1153	G	C6-N1-C2	-5.58	121.75	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	141	G	N9-C1'-C2'	-5.58	105.87	112.00
1	N	664	G	C4'-C3'-C2'	-5.58	97.03	102.60
1	N	924	C	O4'-C1'-N1	5.58	112.66	108.20
1	N	209	U	P-O3'-C3'	-5.57	113.01	119.70
1	N	657	U	O4'-C1'-N1	5.57	112.66	108.20
1	N	713	G	N3-C4-C5	5.57	131.39	128.60
1	N	807	A	C5-C6-N6	-5.57	119.24	123.70
1	N	970	C	C4-C5-C6	5.57	120.19	117.40
1	N	1044	A	C5'-C4'-C3'	-5.57	107.08	116.00
1	N	1058	G	C6-C5-N7	-5.57	127.06	130.40
1	N	1242	G	O5'-C5'-C4'	-5.57	101.11	111.70
1	N	1243	C	N3-C4-C5	-5.57	119.67	121.90
1	N	53	A	O4'-C1'-N9	5.57	112.66	108.20
1	N	566	G	C4-C5-N7	-5.57	108.57	110.80
1	N	739	C	C5-C6-N1	5.57	123.79	121.00
1	N	740	U	P-O3'-C3'	-5.57	113.01	119.70
1	N	1003	G	C5-C6-O6	-5.57	125.26	128.60
1	N	238	A	C4-C5-C6	5.57	119.78	117.00
1	N	518	C	C1'-O4'-C4'	-5.57	105.44	109.90
1	N	600	A	C5-N7-C8	5.57	106.69	103.90
1	N	830	G	C2-N3-C4	-5.57	109.11	111.90
1	N	1068	G	C6-C5-N7	-5.57	127.06	130.40
1	N	1336	C	OP2-P-O3'	5.57	117.45	105.20
1	N	1421	G	N1-C2-N2	-5.57	111.19	116.20
1	N	383	A	C5-C6-N6	-5.57	119.25	123.70
1	N	71	A	N1-C2-N3	-5.57	126.52	129.30
1	N	206	C	O4'-C1'-N1	5.57	112.65	108.20
1	N	307	C	C4-C5-C6	5.57	120.18	117.40
1	N	670	G	C8-N9-C1'	5.57	134.24	127.00
1	N	1108	G	N3-C4-N9	5.57	129.34	126.00
1	N	1221	G	O4'-C1'-N9	5.57	112.65	108.20
1	N	1264	U	C5'-C4'-C3'	5.57	124.91	116.00
1	N	259	G	C2-N3-C4	5.57	114.68	111.90
1	N	450	G	N1-C2-N3	-5.57	120.56	123.90
1	N	524	G	P-O3'-C3'	5.57	126.38	119.70
1	N	555	U	C5-C4-O4	-5.57	122.56	125.90
1	N	747	A	C3'-C2'-C1'	5.56	105.95	101.50
1	N	1210	C	O4'-C1'-N1	5.56	112.65	108.20
1	N	1247	U	N1-C2-O2	5.56	126.69	122.80
1	N	1333	A	C4-C5-N7	5.56	113.48	110.70
1	N	32	A	N9-C4-C5	5.56	108.03	105.80
1	N	84	U	C6-N1-C1'	-5.56	113.41	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	913	A	O5'-C5'-C4'	5.56	122.27	111.70
1	N	972	C	C4'-C3'-C2'	-5.56	97.04	102.60
1	N	1226	C	N3-C4-C5	-5.56	119.67	121.90
1	N	610	U	C2-N3-C4	-5.56	123.66	127.00
1	N	1224	U	N1-C1'-C2'	5.56	121.23	114.00
1	N	1379	G	C3'-C2'-C1'	5.56	105.95	101.50
1	N	58	C	C5-C6-N1	5.56	123.78	121.00
1	N	553	A	C5-C6-N1	-5.56	114.92	117.70
1	N	741	G	N3-C2-N2	5.56	123.79	119.90
1	N	1041	G	N3-C2-N2	5.56	123.79	119.90
1	N	1273	C	C4'-C3'-C2'	-5.56	97.04	102.60
1	N	21	G	P-O5'-C5'	5.56	129.79	120.90
1	N	117	G	P-O5'-C5'	5.56	129.79	120.90
1	N	669	G	C6-N1-C2	-5.56	121.77	125.10
1	N	843	U	C5-C4-O4	-5.56	122.56	125.90
1	N	859	G	N3-C4-N9	5.56	129.33	126.00
1	N	1042	A	C2'-C3'-O3'	5.56	122.59	113.70
1	N	1284	C	C2-N1-C1'	5.56	124.91	118.80
1	N	1335	U	N1-C2-O2	-5.56	118.91	122.80
1	N	769	G	N1-C2-N3	-5.56	120.57	123.90
1	N	1220	G	C5-N7-C8	-5.56	101.52	104.30
1	N	103	U	C2-N1-C1'	5.55	124.37	117.70
1	N	1246	A	N3-C4-N9	5.55	131.84	127.40
1	N	1346	A	N3-C4-N9	5.55	131.84	127.40
1	N	1348	U	C1'-O4'-C4'	5.55	114.34	109.90
1	N	718	A	P-O5'-C5'	5.55	129.78	120.90
1	N	1173	U	C2-N3-C4	-5.55	123.67	127.00
1	N	121	U	C2-N3-C4	5.55	130.33	127.00
1	N	872	A	C6-C5-N7	-5.55	128.41	132.30
1	N	1395	C	C4-C5-C6	-5.55	114.62	117.40
1	N	952	U	C5-C4-O4	-5.55	122.57	125.90
1	N	1189	U	O4'-C1'-N1	5.55	112.64	108.20
1	N	1232	U	C4'-C3'-C2'	5.55	108.15	102.60
1	N	1241	G	O4'-C1'-N9	5.55	112.64	108.20
1	N	1362	A	O4'-C4'-C3'	-5.55	98.45	104.00
1	N	52	C	C4-C5-C6	5.55	120.17	117.40
1	N	454	G	C6-C5-N7	-5.55	127.07	130.40
1	N	801	U	N3-C4-O4	5.55	123.28	119.40
1	N	5	U	O4'-C4'-C3'	-5.55	98.45	104.00
1	N	631	C	O5'-C5'-C4'	-5.55	101.16	111.70
1	N	748	G	C5-C6-N1	5.55	114.27	111.50
1	N	765	G	OP1-P-O3'	5.55	117.40	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	814	A	P-O5'-C5'	-5.55	112.03	120.90
1	N	1016	A	C4-C5-C6	5.55	119.77	117.00
1	N	1532	U	C2-N3-C4	-5.55	123.67	127.00
1	N	129	A	C4-C5-C6	5.54	119.77	117.00
1	N	281	G	O4'-C1'-N9	-5.54	103.76	108.20
1	N	310	G	O4'-C1'-N9	5.54	112.64	108.20
1	N	392	C	C6-N1-C1'	-5.54	114.15	120.80
1	N	1455	G	N1-C2-N3	-5.54	120.57	123.90
1	N	94	G	N7-C8-N9	5.54	115.87	113.10
1	N	527	G	C2-N3-C4	5.54	114.67	111.90
1	N	779	C	P-O3'-C3'	5.54	126.35	119.70
1	N	940	C	P-O5'-C5'	5.54	129.77	120.90
1	N	1213	A	C1'-O4'-C4'	5.54	114.33	109.90
1	N	1216	A	C5-C6-N6	-5.54	119.27	123.70
1	N	1235	U	C2-N3-C4	-5.54	123.67	127.00
1	N	43	C	N3-C4-C5	-5.54	119.68	121.90
1	N	235	C	C3'-C2'-C1'	5.54	105.93	101.50
1	N	241	G	C6-N1-C2	5.54	128.43	125.10
1	N	765	G	C4-N9-C1'	5.54	133.70	126.50
1	N	647	C	C6-N1-C2	5.54	122.52	120.30
1	N	996	A	C5-N7-C8	5.54	106.67	103.90
1	N	1353	G	N1-C2-N3	-5.54	120.58	123.90
1	N	108	G	N1-C2-N2	-5.54	111.22	116.20
1	N	363	A	P-O3'-C3'	5.54	126.35	119.70
1	N	395	C	N3-C4-C5	-5.54	119.68	121.90
1	N	703	G	N3-C4-C5	-5.54	125.83	128.60
1	N	1020	G	O4'-C1'-C2'	-5.54	100.26	105.80
1	N	1423	G	C4-C5-N7	5.54	113.02	110.80
1	N	1467	C	C6-N1-C1'	-5.54	114.15	120.80
1	N	197	A	C2-N3-C4	5.54	113.37	110.60
1	N	516	U	C4-C5-C6	-5.54	116.38	119.70
1	N	657	U	C5'-C4'-C3'	5.54	124.86	116.00
1	N	935	A	C5-C6-N6	-5.54	119.27	123.70
1	N	1121	U	C4'-C3'-C2'	-5.54	97.06	102.60
1	N	1493	A	N1-C2-N3	5.54	132.07	129.30
1	N	288	A	O4'-C4'-C3'	-5.53	98.47	104.00
1	N	638	U	P-O3'-C3'	5.53	126.34	119.70
1	N	879	C	C6-N1-C1'	-5.53	114.16	120.80
1	N	1061	G	O5'-C5'-C4'	-5.53	101.19	111.70
1	N	1397	C	C4-C5-C6	5.53	120.17	117.40
1	N	272	C	O4'-C1'-N1	5.53	112.62	108.20
1	N	337	G	C1'-O4'-C4'	-5.53	105.47	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	552	U	P-O3'-C3'	-5.53	113.06	119.70
1	N	701	U	O4'-C1'-N1	5.53	112.63	108.20
1	N	712	A	OP1-P-OP2	-5.53	111.30	119.60
1	N	975	A	C8-N9-C1'	-5.53	117.74	127.70
1	N	1309	G	C5-N7-C8	-5.53	101.53	104.30
1	N	162	A	O4'-C1'-N9	5.53	112.62	108.20
1	N	893	C	C1'-O4'-C4'	5.53	114.32	109.90
1	N	1355	G	C6-N1-C2	-5.53	121.78	125.10
1	N	761	G	C4-C5-N7	5.53	113.01	110.80
1	N	996	A	C5-C6-N1	-5.53	114.94	117.70
1	N	1028	C	C1'-O4'-C4'	5.53	114.32	109.90
1	N	52	C	C1'-O4'-C4'	5.53	114.32	109.90
1	N	125	U	P-O3'-C3'	-5.53	113.07	119.70
1	N	402	G	N3-C4-C5	-5.53	125.84	128.60
1	N	468	A	C6-N1-C2	-5.53	115.28	118.60
1	N	569	C	C2-N1-C1'	5.53	124.88	118.80
1	N	865	A	N3-C4-C5	-5.53	122.93	126.80
1	N	1385	G	N9-C4-C5	5.53	107.61	105.40
1	N	1520	C	N3-C4-C5	-5.53	119.69	121.90
1	N	3	A	C6-C5-N7	-5.52	128.43	132.30
1	N	453	G	N1-C2-N2	-5.52	111.23	116.20
1	N	532	A	N3-C4-C5	-5.52	122.93	126.80
1	N	537	G	N3-C4-C5	5.52	131.36	128.60
1	N	782	A	N1-C2-N3	-5.52	126.54	129.30
1	N	967	C	N3-C4-N4	5.52	121.87	118.00
1	N	1487	G	C4-N9-C1'	-5.52	119.32	126.50
1	N	402	G	N1-C2-N3	-5.52	120.59	123.90
1	N	994	A	C4-C5-C6	5.52	119.76	117.00
1	N	1259	C	C2-N3-C4	5.52	122.66	119.90
1	N	1363	A	O4'-C1'-N9	5.52	112.62	108.20
1	N	821	G	C6-C5-N7	-5.52	127.09	130.40
1	N	195	A	C4-C5-C6	5.52	119.76	117.00
1	N	390	U	O5'-P-OP2	-5.52	100.73	105.70
1	N	788	U	C5'-C4'-C3'	-5.52	107.17	116.00
1	N	1264	U	O4'-C1'-N1	5.52	112.62	108.20
1	N	1350	A	C5-C6-N6	-5.52	119.28	123.70
1	N	1373	G	N3-C4-N9	-5.52	122.69	126.00
1	N	220	G	N1-C2-N3	-5.52	120.59	123.90
1	N	1166	G	N3-C2-N2	5.52	123.76	119.90
1	N	1389	C	C2-N1-C1'	5.52	124.87	118.80
1	N	1405	G	N7-C8-N9	-5.52	110.34	113.10
1	N	655	A	C5-C6-N6	-5.51	119.29	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1037	C	O4'-C4'-C3'	-5.51	98.49	104.00
1	N	1511	G	N7-C8-N9	-5.51	110.34	113.10
1	N	38	G	O4'-C1'-C2'	5.51	112.56	107.60
1	N	130	A	O4'-C1'-N9	5.51	112.61	108.20
1	N	607	A	O4'-C1'-N9	5.51	112.61	108.20
1	N	796	C	N3-C4-C5	-5.51	119.70	121.90
1	N	1013	G	C8-N9-C4	5.51	108.61	106.40
1	N	682	G	C4-C5-C6	5.51	122.11	118.80
1	N	823	C	O4'-C4'-C3'	-5.51	98.49	104.00
1	N	883	C	C5-C6-N1	5.51	123.75	121.00
1	N	1046	A	P-O5'-C5'	-5.51	112.08	120.90
1	N	1465	A	C4'-C3'-C2'	-5.51	97.09	102.60
1	N	291	U	O4'-C1'-N1	5.51	112.61	108.20
1	N	447	G	O4'-C4'-C3'	-5.51	98.49	104.00
1	N	605	U	O4'-C1'-N1	5.51	112.61	108.20
1	N	1124	G	C8-N9-C1'	-5.51	119.84	127.00
1	N	1517	G	C5'-C4'-C3'	-5.51	107.19	116.00
1	N	794	A	N3-C4-N9	5.51	131.81	127.40
1	N	802	A	N7-C8-N9	5.51	116.55	113.80
1	N	1119	C	C4-C5-C6	-5.51	114.65	117.40
1	N	1513	A	C1'-O4'-C4'	-5.51	105.50	109.90
1	N	825	A	C5-C6-N1	-5.50	114.95	117.70
1	N	1165	U	C2-N3-C4	5.50	130.30	127.00
1	N	183	C	C3'-C2'-C1'	5.50	105.90	101.50
1	N	201	G	C6-C5-N7	-5.50	127.10	130.40
1	N	530	G	N1-C2-N3	-5.50	120.60	123.90
1	N	963	G	C5-C6-N1	-5.50	108.75	111.50
1	N	1419	G	C5-C6-N1	-5.50	108.75	111.50
1	N	528	C	C5-C4-N4	-5.50	116.35	120.20
1	N	1041	G	C5-N7-C8	5.50	107.05	104.30
1	N	48	C	C5'-C4'-O4'	5.50	115.70	109.10
1	N	238	A	O4'-C1'-N9	5.50	112.60	108.20
1	N	412	A	C8-N9-C4	5.50	108.00	105.80
1	N	568	G	P-O5'-C5'	-5.50	112.10	120.90
1	N	811	C	C2-N3-C4	5.50	122.65	119.90
1	N	823	C	N3-C4-C5	-5.50	119.70	121.90
1	N	995	C	P-O3'-C3'	-5.50	113.10	119.70
1	N	1118	U	C5'-C4'-C3'	5.50	124.80	116.00
1	N	1123	U	C2-N3-C4	-5.50	123.70	127.00
1	N	1213	A	P-O5'-C5'	5.50	129.70	120.90
1	N	314	C	P-O5'-C5'	5.50	129.69	120.90
1	N	705	G	N9-C4-C5	5.50	107.60	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	855	U	N1-C1'-C2'	-5.50	105.95	112.00
1	N	1006	G	N1-C2-N2	5.50	121.15	116.20
1	N	1365	G	N3-C4-N9	5.50	129.30	126.00
1	N	1524	C	C5'-C4'-C3'	-5.50	107.21	116.00
1	N	138	G	N3-C2-N2	5.50	123.75	119.90
1	N	286	C	N1-C2-O2	-5.50	115.60	118.90
1	N	351	G	N7-C8-N9	5.50	115.85	113.10
1	N	472	U	N3-C4-C5	-5.50	111.30	114.60
1	N	897	C	C5'-C4'-O4'	5.50	115.69	109.10
1	N	82	G	C2-N3-C4	5.49	114.65	111.90
1	N	227	G	N1-C2-N3	-5.49	120.60	123.90
1	N	375	U	OP1-P-OP2	-5.49	111.36	119.60
1	N	924	C	P-O3'-C3'	5.49	126.29	119.70
1	N	935	A	N1-C6-N6	5.49	121.90	118.60
1	N	941	G	C5-C6-O6	-5.49	125.30	128.60
1	N	1477	U	O4'-C1'-N1	5.49	112.59	108.20
1	N	792	A	O4'-C1'-N9	5.49	112.59	108.20
1	N	814	A	C4-C5-N7	-5.49	107.95	110.70
1	N	1013	G	N3-C4-C5	5.49	131.35	128.60
1	N	1041	G	OP1-P-O3'	5.49	117.28	105.20
1	N	1169	A	C8-N9-C4	-5.49	103.60	105.80
1	N	435	A	C5-C6-N6	-5.49	119.31	123.70
1	N	693	G	N3-C4-C5	-5.49	125.86	128.60
1	N	851	G	C6-C5-N7	-5.49	127.11	130.40
1	N	1053	G	N3-C4-C5	5.49	131.34	128.60
1	N	1422	G	C4-C5-C6	5.49	122.09	118.80
1	N	170	U	C4-C5-C6	-5.49	116.41	119.70
1	N	870	U	N3-C4-C5	-5.49	111.31	114.60
1	N	1456	A	P-O3'-C3'	5.49	126.29	119.70
1	N	674	G	C4-C5-N7	5.49	113.00	110.80
1	N	1252	A	C4-C5-C6	5.49	119.74	117.00
1	N	344	A	C3'-C2'-C1'	5.49	105.89	101.50
1	N	352	C	C2-N1-C1'	5.49	124.83	118.80
1	N	542	G	N1-C2-N3	-5.49	120.61	123.90
1	N	1453	G	N3-C2-N2	-5.49	116.06	119.90
1	N	865	A	C4'-C3'-C2'	-5.48	97.12	102.60
1	N	1345	U	C2-N3-C4	-5.48	123.71	127.00
1	N	187	G	C4-C5-C6	5.48	122.09	118.80
1	N	294	U	C4-C5-C6	5.48	122.99	119.70
1	N	388	G	C3'-C2'-C1'	5.48	105.89	101.50
1	N	526	C	C2-N3-C4	-5.48	117.16	119.90
1	N	667	G	O4'-C1'-N9	5.48	112.58	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1078	U	N1-C2-O2	5.48	126.64	122.80
1	N	211	G	C8-N9-C1'	-5.48	119.88	127.00
1	N	570	G	C4-C5-N7	5.48	112.99	110.80
1	N	595	A	C8-N9-C4	-5.48	103.61	105.80
1	N	1094	G	C2'-C3'-O3'	5.48	122.47	113.70
1	N	1175	G	C4-C5-C6	5.48	122.09	118.80
1	N	1358	U	C4-C5-C6	5.48	122.99	119.70
1	N	601	G	C4'-C3'-C2'	-5.48	97.12	102.60
1	N	647	C	C4-C5-C6	5.48	120.14	117.40
1	N	848	C	N3-C4-C5	5.48	124.09	121.90
1	N	934	C	C3'-C2'-C1'	5.48	105.88	101.50
1	N	1288	A	C8-N9-C4	-5.48	103.61	105.80
1	N	68	G	C2-N3-C4	5.48	114.64	111.90
1	N	357	G	C6-N1-C2	5.48	128.38	125.10
1	N	800	G	C8-N9-C4	-5.47	104.21	106.40
1	N	995	C	O4'-C1'-C2'	-5.47	100.33	105.80
1	N	1069	C	C6-N1-C1'	5.47	127.37	120.80
1	N	1467	C	O4'-C4'-C3'	-5.47	98.53	104.00
1	N	1534	A	N7-C8-N9	-5.47	111.06	113.80
1	N	461	A	N3-C4-C5	-5.47	122.97	126.80
1	N	537	G	N9-C1'-C2'	-5.47	105.98	112.00
1	N	1058	G	OP1-P-OP2	-5.47	111.39	119.60
1	N	1243	C	C5-C6-N1	5.47	123.74	121.00
1	N	395	C	C5-C4-N4	-5.47	116.37	120.20
1	N	332	G	C5-N7-C8	5.47	107.03	104.30
1	N	430	A	C8-N9-C4	-5.47	103.61	105.80
1	N	988	G	O5'-P-OP2	-5.47	100.78	105.70
1	N	1105	A	C5-C6-N6	-5.47	119.32	123.70
1	N	1001	C	C2-N1-C1'	5.47	124.81	118.80
1	N	265	G	N9-C4-C5	5.47	107.59	105.40
1	N	373	A	O4'-C1'-C2'	-5.47	100.33	105.80
1	N	1472	U	N3-C4-C5	-5.47	111.32	114.60
1	N	433	G	O4'-C4'-C3'	-5.46	98.53	104.00
1	N	959	A	C5-C6-N1	-5.46	114.97	117.70
1	N	1042	A	N9-C4-C5	-5.46	103.61	105.80
1	N	1364	U	P-O3'-C3'	5.46	126.26	119.70
1	N	1475	G	N7-C8-N9	-5.46	110.37	113.10
1	N	1481	U	N3-C4-C5	-5.46	111.32	114.60
1	N	21	G	C4-C5-N7	5.46	112.98	110.80
1	N	198	G	N9-C4-C5	-5.46	103.22	105.40
1	N	403	C	O4'-C1'-N1	5.46	112.57	108.20
1	N	538	G	C4-C5-N7	-5.46	108.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	546	A	C2'-C3'-O3'	5.46	122.44	113.70
1	N	590	U	C5'-C4'-C3'	5.46	124.74	116.00
1	N	736	C	C6-N1-C2	-5.46	118.11	120.30
1	N	752	G	P-O3'-C3'	5.46	126.25	119.70
1	N	823	C	P-O3'-C3'	5.46	126.25	119.70
1	N	1006	G	C8-N9-C4	-5.46	104.22	106.40
1	N	1223	C	C2-N1-C1'	5.46	124.81	118.80
1	N	336	A	C6-C5-N7	-5.46	128.48	132.30
1	N	599	C	N3-C4-N4	5.46	121.82	118.00
1	N	267	C	C2-N3-C4	-5.46	117.17	119.90
1	N	522	C	C2-N3-C4	5.46	122.63	119.90
1	N	540	G	C2-N3-C4	5.46	114.63	111.90
1	N	753	A	C5'-C4'-C3'	-5.46	107.27	116.00
1	N	949	A	C4'-C3'-C2'	-5.46	97.14	102.60
1	N	1185	G	C3'-C2'-C1'	-5.46	97.13	101.50
1	N	725	G	C3'-C2'-C1'	5.46	105.87	101.50
1	N	957	U	O4'-C1'-N1	5.46	112.56	108.20
1	N	1225	A	O4'-C1'-N9	5.46	112.56	108.20
1	N	1369	C	C5-C6-N1	5.46	123.73	121.00
1	N	1385	G	N3-C2-N2	-5.46	116.08	119.90
1	N	30	U	N3-C2-O2	5.46	126.02	122.20
1	N	122	G	C5-N7-C8	-5.46	101.57	104.30
1	N	321	A	N7-C8-N9	-5.46	111.07	113.80
1	N	645	G	C3'-C2'-C1'	-5.46	97.14	101.50
1	N	58	C	O4'-C1'-N1	5.45	112.56	108.20
1	N	83	C	C1'-O4'-C4'	5.45	114.26	109.90
1	N	210	C	C6-N1-C2	-5.45	118.12	120.30
1	N	224	U	C5-C4-O4	-5.45	122.63	125.90
1	N	258	G	P-O5'-C5'	5.45	129.63	120.90
1	N	1358	U	N3-C4-C5	-5.45	111.33	114.60
1	N	1385	G	C5-N7-C8	5.45	107.03	104.30
1	N	44	A	O4'-C1'-N9	5.45	112.56	108.20
1	N	1331	G	C5'-C4'-C3'	-5.45	107.28	116.00
1	N	1480	A	C8-N9-C4	-5.45	103.62	105.80
1	N	655	A	C5-C6-N1	-5.45	114.97	117.70
1	N	738	C	P-O3'-C3'	-5.45	113.16	119.70
1	N	747	A	C5'-C4'-O4'	5.45	115.64	109.10
1	N	17	U	C5-C6-N1	-5.45	119.98	122.70
1	N	234	C	C6-N1-C2	5.45	122.48	120.30
1	N	500	G	C2-N3-C4	5.45	114.62	111.90
1	N	560	A	O4'-C1'-C2'	5.45	112.50	107.60
1	N	851	G	O4'-C1'-N9	5.45	112.56	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1168	U	C5'-C4'-O4'	5.45	115.64	109.10
1	N	1387	G	N3-C4-C5	-5.45	125.88	128.60
1	N	64	G	N3-C2-N2	-5.45	116.09	119.90
1	N	530	G	C4-C5-N7	5.45	112.98	110.80
1	N	1191	A	C6-C5-N7	-5.45	128.49	132.30
1	N	238	A	N3-C4-C5	-5.45	122.99	126.80
1	N	252	U	O3'-P-O5'	-5.45	93.65	104.00
1	N	812	G	N1-C2-N3	-5.45	120.63	123.90
1	N	1054	C	C6-N1-C2	-5.45	118.12	120.30
1	N	1406	U	N3-C4-O4	5.45	123.21	119.40
1	N	1413	A	N3-C4-N9	-5.45	123.04	127.40
1	N	349	A	N7-C8-N9	-5.44	111.08	113.80
1	N	669	G	N3-C4-C5	-5.44	125.88	128.60
1	N	942	G	C5'-C4'-O4'	5.44	115.63	109.10
1	N	162	A	C5'-C4'-O4'	5.44	115.63	109.10
1	N	204	G	C4'-C3'-C2'	5.44	108.04	102.60
1	N	306	A	N3-C4-C5	-5.44	122.99	126.80
1	N	622	A	C5-C6-N6	-5.44	119.34	123.70
1	N	1367	C	C5'-C4'-C3'	5.44	124.71	116.00
1	N	47	C	N1-C2-N3	5.44	123.01	119.20
1	N	111	G	N9-C4-C5	5.44	107.58	105.40
1	N	199	A	C8-N9-C4	-5.44	103.62	105.80
1	N	486	U	C2-N3-C4	5.44	130.26	127.00
1	N	494	G	C4-C5-N7	-5.44	108.62	110.80
1	N	690	G	C8-N9-C4	-5.44	104.22	106.40
1	N	847	G	C2-N3-C4	5.44	114.62	111.90
1	N	904	U	C4-C5-C6	-5.44	116.44	119.70
1	N	993	G	C8-N9-C1'	-5.44	119.93	127.00
1	N	382	A	C6-C5-N7	-5.44	128.49	132.30
1	N	453	G	N7-C8-N9	-5.44	110.38	113.10
1	N	802	A	C5-C6-N1	-5.44	114.98	117.70
1	N	954	G	C6-C5-N7	-5.44	127.14	130.40
1	N	221	C	C5-C6-N1	5.44	123.72	121.00
1	N	429	U	C2-N1-C1'	-5.44	111.17	117.70
1	N	1388	C	N3-C4-N4	5.44	121.81	118.00
1	N	1395	C	C2-N1-C1'	5.44	124.78	118.80
1	N	532	A	C5-N7-C8	5.44	106.62	103.90
1	N	190	A	N1-C2-N3	-5.43	126.58	129.30
1	N	458	U	C2-N1-C1'	5.43	124.22	117.70
1	N	579	A	OP1-P-OP2	-5.43	111.45	119.60
1	N	1115	U	O4'-C1'-N1	5.43	112.55	108.20
1	N	1183	U	C5-C6-N1	5.43	125.42	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	250	A	C4-C5-N7	5.43	113.42	110.70
1	N	842	U	C2-N1-C1'	5.43	124.22	117.70
1	N	1222	G	C5-C6-N1	-5.43	108.78	111.50
1	N	1224	U	C1'-O4'-C4'	5.43	114.25	109.90
1	N	1250	A	N3-C4-C5	5.43	130.60	126.80
1	N	113	G	C4-C5-N7	-5.43	108.63	110.80
1	N	137	U	O4'-C1'-N1	5.43	112.55	108.20
1	N	159	G	C5-C6-N1	-5.43	108.78	111.50
1	N	177	G	C6-N1-C2	5.43	128.36	125.10
1	N	504	C	O4'-C1'-N1	5.43	112.55	108.20
1	N	751	U	C5-C4-O4	-5.43	122.64	125.90
1	N	898	G	C4-C5-C6	-5.43	115.54	118.80
1	N	228	A	C5-C6-N6	-5.43	119.36	123.70
1	N	457	G	N7-C8-N9	5.43	115.81	113.10
1	N	618	C	N3-C4-C5	-5.43	119.73	121.90
1	N	1159	U	N1-C2-N3	5.43	118.16	114.90
1	N	1238	A	O4'-C1'-N9	5.43	112.54	108.20
1	N	1515	G	N9-C1'-C2'	-5.43	106.03	112.00
1	N	416	G	P-O5'-C5'	5.43	129.59	120.90
1	N	168	G	N1-C2-N3	-5.43	120.64	123.90
1	N	223	A	C6-C5-N7	-5.43	128.50	132.30
1	N	430	A	C5-N7-C8	5.43	106.61	103.90
1	N	1128	C	C2-N1-C1'	5.43	124.77	118.80
1	N	1384	C	C2-N3-C4	5.43	122.61	119.90
1	N	1400	C	N1-C1'-C2'	-5.43	106.03	112.00
1	N	1405	G	N9-C1'-C2'	-5.43	106.03	112.00
1	N	219	U	N3-C2-O2	5.42	126.00	122.20
1	N	399	G	C8-N9-C4	-5.42	104.23	106.40
1	N	1048	G	O4'-C1'-C2'	-5.42	100.38	105.80
1	N	1485	U	P-O5'-C5'	5.42	129.58	120.90
1	N	261	U	P-O5'-C5'	5.42	129.58	120.90
1	N	280	C	C6-N1-C1'	5.42	127.31	120.80
1	N	913	A	C5-C6-N6	-5.42	119.36	123.70
1	N	1256	A	C5-C6-N6	-5.42	119.36	123.70
1	N	266	G	C5'-C4'-O4'	5.42	115.61	109.10
1	N	513	C	P-O3'-C3'	5.42	126.21	119.70
1	N	603	U	C2-N1-C1'	-5.42	111.19	117.70
1	N	1254	A	P-O5'-C5'	5.42	129.58	120.90
1	N	1265	C	OP1-P-OP2	-5.42	111.47	119.60
1	N	637	C	C5-C4-N4	-5.42	116.41	120.20
1	N	300	A	OP1-P-OP2	-5.42	111.47	119.60
1	N	308	C	N1-C2-O2	-5.42	115.65	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	465	A	C4-C5-N7	-5.42	107.99	110.70
1	N	628	G	N9-C4-C5	5.42	107.57	105.40
1	N	1407	C	N3-C4-N4	5.42	121.79	118.00
1	N	547	A	N1-C2-N3	-5.42	126.59	129.30
1	N	968	A	OP1-P-O3'	5.42	117.12	105.20
1	N	402	G	C6-C5-N7	-5.42	127.15	130.40
1	N	837	U	N3-C2-O2	5.42	125.99	122.20
1	N	1022	A	C5-C6-N1	-5.42	114.99	117.70
1	N	915	A	C4-C5-C6	5.41	119.71	117.00
1	N	1002	G	C4-C5-C6	5.41	122.05	118.80
1	N	1038	C	N3-C2-O2	5.41	125.69	121.90
1	N	1317	C	N1-C2-N3	-5.41	115.41	119.20
1	N	244	U	C5'-C4'-O4'	5.41	115.59	109.10
1	N	323	U	C5-C4-O4	-5.41	122.65	125.90
1	N	351	G	C5-N7-C8	-5.41	101.59	104.30
1	N	420	U	N3-C4-C5	-5.41	111.35	114.60
1	N	565	U	C4-C5-C6	-5.41	116.45	119.70
1	N	633	G	N9-C1'-C2'	-5.41	106.05	112.00
1	N	354	G	N3-C4-C5	-5.41	125.89	128.60
1	N	573	A	N3-C4-N9	-5.41	123.07	127.40
1	N	653	U	C4'-C3'-C2'	5.41	108.01	102.60
1	N	1063	C	C6-N1-C2	-5.41	118.14	120.30
1	N	1380	U	O4'-C4'-C3'	-5.41	98.59	104.00
1	N	4	U	O4'-C1'-N1	5.41	112.53	108.20
1	N	75	G	N9-C4-C5	-5.41	103.24	105.40
1	N	188	C	C3'-C2'-C1'	-5.41	97.17	101.50
1	N	212	G	O4'-C4'-C3'	-5.41	98.59	104.00
1	N	744	C	C5-C4-N4	-5.41	116.41	120.20
1	N	840	C	C4-C5-C6	5.41	120.10	117.40
1	N	1355	G	N3-C2-N2	5.41	123.69	119.90
1	N	1521	C	P-O3'-C3'	-5.41	113.21	119.70
1	N	1015	G	N9-C4-C5	5.41	107.56	105.40
1	N	1444	U	C5'-C4'-O4'	5.41	115.59	109.10
1	N	109	A	O5'-P-OP2	-5.41	100.83	105.70
1	N	982	U	C2-N3-C4	-5.41	123.76	127.00
1	N	1089	G	C5-N7-C8	5.41	107.00	104.30
1	N	1480	A	C5'-C4'-C3'	5.41	124.65	116.00
1	N	318	G	C8-N9-C4	-5.40	104.24	106.40
1	N	1274	A	O3'-P-O5'	-5.40	93.73	104.00
1	N	20	U	C5-C6-N1	5.40	125.40	122.70
1	N	90	C	C6-N1-C2	-5.40	118.14	120.30
1	N	202	G	C4-C5-N7	5.40	112.96	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	223	A	C8-N9-C4	-5.40	103.64	105.80
1	N	305	G	P-O3'-C3'	5.40	126.18	119.70
1	N	381	C	P-O5'-C5'	-5.40	112.26	120.90
1	N	386	C	N3-C4-C5	-5.40	119.74	121.90
1	N	1106	G	O4'-C1'-N9	5.40	112.52	108.20
1	N	1421	G	N1-C2-N3	-5.40	120.66	123.90
1	N	1464	U	N1-C2-O2	-5.40	119.02	122.80
1	N	77	A	O5'-P-OP1	-5.40	100.84	105.70
1	N	113	G	O4'-C4'-C3'	-5.40	98.60	104.00
1	N	242	G	N3-C4-C5	5.40	131.30	128.60
1	N	404	G	C5-N7-C8	5.40	107.00	104.30
1	N	977	A	N7-C8-N9	5.40	116.50	113.80
1	N	1050	G	C6-C5-N7	-5.40	127.16	130.40
1	N	37	U	C5'-C4'-O4'	5.40	115.58	109.10
1	N	59	A	C5'-C4'-C3'	-5.40	107.36	116.00
1	N	371	A	C5-N7-C8	5.40	106.60	103.90
1	N	558	G	C6-C5-N7	-5.40	127.16	130.40
1	N	1108	G	C2-N3-C4	5.40	114.60	111.90
1	N	1405	G	C4-C5-N7	5.40	112.96	110.80
1	N	1505	G	C4-C5-N7	5.40	112.96	110.80
1	N	391	G	C6-N1-C2	5.40	128.34	125.10
1	N	474	G	O4'-C1'-C2'	-5.40	100.40	105.80
1	N	896	C	N3-C2-O2	5.40	125.68	121.90
1	N	968	A	N1-C6-N6	5.40	121.84	118.60
1	N	1058	G	C8-N9-C1'	-5.40	119.98	127.00
1	N	5	U	C5-C6-N1	5.40	125.40	122.70
1	N	635	A	C5-C6-N6	-5.40	119.38	123.70
1	N	1324	A	C5-C6-N6	-5.40	119.38	123.70
1	N	1410	A	N1-C2-N3	-5.40	126.60	129.30
1	N	446	G	C4-N9-C1'	-5.39	119.49	126.50
1	N	468	A	N1-C2-N3	5.39	132.00	129.30
1	N	563	A	C1'-O4'-C4'	5.39	114.22	109.90
1	N	887	G	N3-C2-N2	5.39	123.68	119.90
1	N	1021	A	N7-C8-N9	5.39	116.50	113.80
1	N	1137	C	OP1-P-OP2	-5.39	111.51	119.60
1	N	1234	C	C2-N1-C1'	5.39	124.73	118.80
1	N	1531	A	C6-C5-N7	-5.39	128.52	132.30
1	N	273	U	N1-C2-N3	-5.39	111.66	114.90
1	N	401	C	OP1-P-OP2	-5.39	111.51	119.60
1	N	741	G	C5-C6-O6	-5.39	125.36	128.60
1	N	996	A	C4-C5-N7	-5.39	108.00	110.70
1	N	1034	G	C6-N1-C2	5.39	128.34	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1173	U	P-O3'-C3'	5.39	126.17	119.70
1	N	1298	U	N3-C4-O4	5.39	123.17	119.40
1	N	232	G	N3-C4-C5	-5.39	125.91	128.60
1	N	333	U	O5'-C5'-C4'	-5.39	101.46	111.70
1	N	596	A	P-O5'-C5'	5.39	129.52	120.90
1	N	629	A	O4'-C1'-N9	5.39	112.51	108.20
1	N	747	A	N9-C1'-C2'	-5.39	106.07	112.00
1	N	975	A	C4-N9-C1'	5.39	136.00	126.30
1	N	302	G	C4-N9-C1'	-5.39	119.50	126.50
1	N	803	G	P-O3'-C3'	-5.39	113.24	119.70
1	N	909	A	N7-C8-N9	5.39	116.49	113.80
1	N	1130	A	C4-C5-C6	5.39	119.69	117.00
1	N	1160	G	C3'-C2'-C1'	5.39	105.81	101.50
1	N	1293	C	P-O5'-C5'	-5.39	112.28	120.90
1	N	1295	U	O4'-C1'-N1	5.39	112.51	108.20
1	N	1494	G	O4'-C4'-C3'	-5.39	98.61	104.00
1	N	1515	G	C8-N9-C4	-5.39	104.25	106.40
1	N	630	A	C5-N7-C8	5.38	106.59	103.90
1	N	834	U	P-O3'-C3'	-5.38	113.24	119.70
1	N	1377	A	C4-C5-N7	-5.38	108.01	110.70
1	N	1432	G	C8-N9-C4	5.38	108.55	106.40
1	N	176	C	C5-C4-N4	-5.38	116.43	120.20
1	N	393	A	C2-N3-C4	-5.38	107.91	110.60
1	N	636	U	N1-C2-O2	-5.38	119.03	122.80
1	N	844	G	N3-C4-N9	5.38	129.23	126.00
1	N	857	C	N1-C2-O2	5.38	122.13	118.90
1	N	1005	A	C5-C6-N6	-5.38	119.39	123.70
1	N	1526	G	N1-C2-N2	5.38	121.04	116.20
1	N	17	U	C5-C4-O4	-5.38	122.67	125.90
1	N	156	C	N3-C4-N4	5.38	121.77	118.00
1	N	210	C	C5'-C4'-C3'	-5.38	107.39	116.00
1	N	374	A	C5'-C4'-O4'	-5.38	102.64	109.10
1	N	908	A	O4'-C4'-C3'	-5.38	98.62	104.00
1	N	1068	G	P-O3'-C3'	-5.38	113.24	119.70
1	N	822	U	C5'-C4'-O4'	5.38	115.56	109.10
1	N	839	C	C2'-C3'-O3'	5.38	122.31	113.70
1	N	637	C	C5'-C4'-O4'	5.38	115.56	109.10
1	N	823	C	N1-C2-O2	5.38	122.13	118.90
1	N	1152	A	C2-N3-C4	-5.38	107.91	110.60
1	N	1503	A	C5'-C4'-O4'	5.38	115.55	109.10
1	N	73	C	O5'-P-OP1	-5.38	100.86	105.70
1	N	242	G	O4'-C1'-N9	5.38	112.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	258	G	O4'-C1'-N9	5.38	112.50	108.20
1	N	655	A	C8-N9-C1'	-5.38	118.02	127.70
1	N	921	U	N3-C4-O4	5.38	123.16	119.40
1	N	1193	G	C6-N1-C2	5.38	128.33	125.10
1	N	74	A	C6-C5-N7	-5.38	128.54	132.30
1	N	139	A	P-O5'-C5'	5.38	129.50	120.90
1	N	392	C	O4'-C1'-N1	5.38	112.50	108.20
1	N	550	G	C6-N1-C2	-5.38	121.88	125.10
1	N	1046	A	C5-N7-C8	5.38	106.59	103.90
1	N	1158	C	C4-C5-C6	5.38	120.09	117.40
1	N	1371	G	N1-C2-N3	-5.38	120.67	123.90
1	N	52	C	P-O3'-C3'	-5.37	113.25	119.70
1	N	716	A	C6-C5-N7	-5.37	128.54	132.30
1	N	724	G	P-O5'-C5'	-5.37	112.30	120.90
1	N	1019	A	C6-C5-N7	-5.37	128.54	132.30
1	N	1020	G	N7-C8-N9	5.37	115.79	113.10
1	N	1341	U	N3-C2-O2	5.37	125.96	122.20
1	N	25	C	C2-N3-C4	5.37	122.59	119.90
1	N	262	A	C5-C6-N1	-5.37	115.01	117.70
1	N	325	A	C3'-C2'-C1'	-5.37	97.20	101.50
1	N	460	A	C2-N3-C4	-5.37	107.92	110.60
1	N	838	G	P-O5'-C5'	5.37	129.49	120.90
1	N	923	A	N1-C2-N3	5.37	131.99	129.30
1	N	1020	G	C5-N7-C8	-5.37	101.61	104.30
1	N	1045	C	C5-C4-N4	5.37	123.96	120.20
1	N	1128	C	C6-N1-C2	-5.37	118.15	120.30
1	N	1207	G	P-O5'-C5'	5.37	129.49	120.90
1	N	1065	U	C1'-O4'-C4'	5.37	114.20	109.90
1	N	1068	G	C1'-O4'-C4'	5.37	114.20	109.90
1	N	1215	G	P-O3'-C3'	5.37	126.14	119.70
1	N	1363	A	N1-C2-N3	-5.37	126.61	129.30
1	N	1367	C	C5-C6-N1	5.37	123.69	121.00
1	N	341	C	N3-C4-N4	5.37	121.76	118.00
1	N	671	G	C5'-C4'-O4'	5.37	115.54	109.10
1	N	740	U	N3-C4-C5	-5.37	111.38	114.60
1	N	947	G	C5-C6-O6	-5.37	125.38	128.60
1	N	1138	G	C4-C5-N7	5.37	112.95	110.80
1	N	192	A	N3-C4-C5	-5.37	123.04	126.80
1	N	370	C	C4'-C3'-C2'	-5.37	97.23	102.60
1	N	410	G	C6-N1-C2	-5.37	121.88	125.10
1	N	470	C	C5'-C4'-O4'	5.37	115.54	109.10
1	N	988	G	C5-C6-N1	5.37	114.18	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1459	G	N1-C2-N2	-5.37	111.37	116.20
1	N	135	C	C4'-C3'-C2'	-5.37	97.23	102.60
1	N	169	C	C6-N1-C1'	-5.37	114.36	120.80
1	N	665	A	C5-C6-N1	-5.37	115.02	117.70
1	N	1143	G	C5'-C4'-O4'	5.37	115.54	109.10
1	N	1211	U	C5'-C4'-O4'	5.37	115.54	109.10
1	N	785	G	C2-N3-C4	-5.36	109.22	111.90
1	N	806	C	N1-C2-O2	5.36	122.12	118.90
1	N	1074	G	C5-C6-O6	-5.36	125.38	128.60
1	N	1223	C	C6-N1-C1'	-5.36	114.36	120.80
1	N	134	G	N9-C4-C5	-5.36	103.25	105.40
1	N	1101	A	C2'-C3'-O3'	5.36	122.28	113.70
1	N	1423	G	C5-C6-N1	5.36	114.18	111.50
1	N	147	G	C3'-C2'-C1'	-5.36	97.21	101.50
1	N	266	G	N3-C4-C5	-5.36	125.92	128.60
1	N	401	C	N3-C4-C5	-5.36	119.76	121.90
1	N	616	G	N9-C1'-C2'	-5.36	106.10	112.00
1	N	794	A	C5'-C4'-O4'	-5.36	102.67	109.10
1	N	845	A	C5-C6-N6	-5.36	119.41	123.70
1	N	779	C	C5'-C4'-C3'	-5.36	107.43	116.00
1	N	1153	G	O4'-C1'-N9	5.36	112.49	108.20
1	N	22	G	C6-C5-N7	-5.36	127.19	130.40
1	N	170	U	N1-C2-N3	-5.36	111.69	114.90
1	N	665	A	N7-C8-N9	-5.36	111.12	113.80
1	N	916	U	N1-C2-N3	-5.36	111.69	114.90
1	N	1121	U	N3-C4-O4	5.36	123.15	119.40
1	N	1247	U	C4'-C3'-C2'	-5.36	97.24	102.60
1	N	1355	G	N9-C1'-C2'	-5.36	106.11	112.00
1	N	1375	A	O4'-C1'-N9	5.36	112.49	108.20
1	N	1447	A	O4'-C1'-N9	5.36	112.49	108.20
1	N	581	G	N3-C2-N2	5.36	123.65	119.90
1	N	816	A	O4'-C1'-N9	5.36	112.48	108.20
1	N	937	A	N3-C4-C5	-5.36	123.05	126.80
1	N	956	U	P-O5'-C5'	5.36	129.47	120.90
1	N	1321	U	O4'-C1'-N1	5.36	112.48	108.20
1	N	1322	C	C1'-O4'-C4'	5.36	114.18	109.90
1	N	983	A	C8-N9-C1'	-5.35	118.06	127.70
1	N	1426	G	O4'-C1'-N9	5.35	112.48	108.20
1	N	214	C	C5-C4-N4	-5.35	116.45	120.20
1	N	239	U	C4'-C3'-C2'	-5.35	97.25	102.60
1	N	460	A	C5-C6-N6	-5.35	119.42	123.70
1	N	490	C	C5-C4-N4	-5.35	116.45	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	766	A	C8-N9-C1'	5.35	137.34	127.70
1	N	845	A	C6-C5-N7	-5.35	128.55	132.30
1	N	1106	G	P-O5'-C5'	-5.35	112.33	120.90
1	N	1193	G	P-O3'-C3'	5.35	126.12	119.70
1	N	1331	G	C4-C5-N7	-5.35	108.66	110.80
1	N	285	C	N1-C2-N3	-5.35	115.45	119.20
1	N	391	G	N9-C1'-C2'	-5.35	106.11	112.00
1	N	510	A	N9-C4-C5	5.35	107.94	105.80
1	N	599	C	C6-N1-C2	5.35	122.44	120.30
1	N	699	C	OP2-P-O3'	5.35	116.97	105.20
1	N	700	G	C2-N3-C4	5.35	114.58	111.90
1	N	1420	U	C5-C4-O4	-5.35	122.69	125.90
1	N	143	A	C5-N7-C8	5.35	106.58	103.90
1	N	177	G	C8-N9-C4	-5.35	104.26	106.40
1	N	252	U	N3-C4-C5	-5.35	111.39	114.60
1	N	866	C	P-O3'-C3'	5.35	126.12	119.70
1	N	878	A	C4-C5-N7	-5.35	108.03	110.70
1	N	1005	A	C6-C5-N7	-5.35	128.56	132.30
1	N	1329	A	N1-C6-N6	5.35	121.81	118.60
1	N	1423	G	O4'-C4'-C3'	-5.35	98.65	104.00
1	N	176	C	N1-C2-O2	-5.35	115.69	118.90
1	N	647	C	C4'-C3'-C2'	-5.35	97.25	102.60
1	N	785	G	C6-C5-N7	-5.35	127.19	130.40
1	N	1127	G	N3-C2-N2	5.35	123.64	119.90
1	N	1181	G	C8-N9-C1'	-5.35	120.05	127.00
1	N	8	A	C1'-O4'-C4'	-5.35	105.62	109.90
1	N	871	U	C5'-C4'-C3'	5.35	124.55	116.00
1	N	1211	U	N1-C2-N3	5.35	118.11	114.90
1	N	172	A	N7-C8-N9	5.34	116.47	113.80
1	N	354	G	N1-C2-N2	-5.34	111.39	116.20
1	N	867	G	C6-C5-N7	-5.34	127.19	130.40
1	N	1067	A	C5'-C4'-O4'	5.34	115.51	109.10
1	N	1071	C	N1-C2-N3	-5.34	115.46	119.20
1	N	1234	C	N3-C4-N4	5.34	121.74	118.00
1	N	1373	G	C3'-C2'-C1'	-5.34	97.22	101.50
1	N	1404	C	C5'-C4'-O4'	5.34	115.51	109.10
1	N	1424	U	C3'-C2'-C1'	5.34	105.78	101.50
1	N	26	A	N3-C4-C5	-5.34	123.06	126.80
1	N	399	G	C5-N7-C8	-5.34	101.63	104.30
1	N	879	C	P-O5'-C5'	-5.34	112.35	120.90
1	N	1161	C	N3-C4-N4	5.34	121.74	118.00
1	N	1241	G	C8-N9-C1'	-5.34	120.05	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	813	U	P-O3'-C3'	-5.34	113.29	119.70
1	N	824	G	P-O3'-C3'	-5.34	113.29	119.70
1	N	927	G	C6-N1-C2	5.34	128.31	125.10
1	N	1286	U	C5-C6-N1	-5.34	120.03	122.70
1	N	1392	G	C5-C6-N1	5.34	114.17	111.50
1	N	11	G	P-O5'-C5'	5.34	129.44	120.90
1	N	25	C	N3-C2-O2	5.34	125.64	121.90
1	N	159	G	C4-C5-C6	5.34	122.00	118.80
1	N	591	U	P-O3'-C3'	-5.34	113.29	119.70
1	N	398	U	C4-C5-C6	5.34	122.90	119.70
1	N	1206	G	C8-N9-C1'	-5.34	120.06	127.00
1	N	1478	U	N3-C4-C5	-5.34	111.40	114.60
1	N	192	A	C5'-C4'-C3'	5.34	124.54	116.00
1	N	74	A	C4-C5-C6	5.33	119.67	117.00
1	N	250	A	OP1-P-O3'	5.33	116.94	105.20
1	N	206	C	N1-C2-O2	5.33	122.10	118.90
1	N	511	C	C2'-C3'-O3'	5.33	122.23	113.70
1	N	1171	A	C5-C6-N6	-5.33	119.43	123.70
1	N	1377	A	C8-N9-C4	-5.33	103.67	105.80
1	N	224	U	N1-C2-N3	-5.33	111.70	114.90
1	N	438	U	O4'-C1'-C2'	-5.33	100.47	105.80
1	N	636	U	C6-N1-C2	5.33	124.20	121.00
1	N	1164	G	C6-N1-C2	-5.33	121.90	125.10
1	N	481	G	N7-C8-N9	5.33	115.77	113.10
1	N	710	G	O4'-C1'-N9	5.33	112.46	108.20
1	N	1015	G	P-O5'-C5'	-5.33	112.37	120.90
1	N	1500	A	N1-C2-N3	5.33	131.97	129.30
1	N	8	A	P-O3'-C3'	5.33	126.09	119.70
1	N	137	U	P-O5'-C5'	5.33	129.43	120.90
1	N	742	G	O4'-C1'-N9	5.33	112.46	108.20
1	N	748	G	N3-C4-C5	-5.33	125.94	128.60
1	N	1515	G	C8-N9-C1'	5.33	133.93	127.00
1	N	898	G	C5-N7-C8	-5.33	101.64	104.30
1	N	1163	A	C5-N7-C8	-5.33	101.24	103.90
1	N	108	G	C2'-C3'-O3'	5.33	122.22	113.70
1	N	427	U	N3-C2-O2	5.33	125.93	122.20
1	N	683	G	C1'-O4'-C4'	5.33	114.16	109.90
1	N	1056	U	C2-N3-C4	5.33	130.20	127.00
1	N	1152	A	N3-C4-N9	5.33	131.66	127.40
1	N	1182	G	P-O3'-C3'	5.33	126.09	119.70
1	N	1196	A	N9-C4-C5	-5.33	103.67	105.80
1	N	54	C	C5'-C4'-C3'	-5.32	107.48	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	604	G	C6-C5-N7	-5.32	127.21	130.40
1	N	688	G	N1-C6-O6	5.32	123.09	119.90
1	N	931	C	N3-C2-O2	-5.32	118.17	121.90
1	N	991	U	C4-C5-C6	-5.32	116.51	119.70
1	N	1340	A	C2-N3-C4	-5.32	107.94	110.60
1	N	993	G	N1-C6-O6	5.32	123.09	119.90
1	N	1451	U	C6-N1-C1'	-5.32	113.75	121.20
1	N	229	U	C1'-O4'-C4'	5.32	114.16	109.90
1	N	299	G	C4-C5-C6	5.32	121.99	118.80
1	N	409	U	O4'-C1'-N1	5.32	112.46	108.20
1	N	921	U	C4-C5-C6	5.32	122.89	119.70
1	N	1118	U	N3-C4-C5	5.32	117.79	114.60
1	N	1284	C	O4'-C4'-C3'	-5.32	98.68	104.00
1	N	1435	G	C8-N9-C4	5.32	108.53	106.40
1	N	1500	A	C5-C6-N1	-5.32	115.04	117.70
1	N	427	U	C2-N1-C1'	-5.32	111.32	117.70
1	N	442	G	N1-C2-N3	-5.32	120.71	123.90
1	N	1346	A	C3'-C2'-C1'	-5.32	97.25	101.50
1	N	580	C	C5-C4-N4	5.32	123.92	120.20
1	N	602	A	C5-N7-C8	5.32	106.56	103.90
1	N	660	C	N1-C2-O2	5.32	122.09	118.90
1	N	1315	U	P-O3'-C3'	-5.32	113.32	119.70
1	N	12	U	N3-C4-O4	5.32	123.12	119.40
1	N	505	G	N3-C4-C5	5.32	131.26	128.60
1	N	637	C	O4'-C1'-N1	5.32	112.45	108.20
1	N	1257	A	C5-N7-C8	5.32	106.56	103.90
1	N	1382	C	C5-C4-N4	5.32	123.92	120.20
1	N	1448	C	C5-C4-N4	-5.32	116.48	120.20
1	N	1456	A	C5-C6-N1	-5.32	115.04	117.70
1	N	435	A	N9-C4-C5	5.31	107.92	105.80
1	N	495	A	C4-C5-N7	-5.31	108.04	110.70
1	N	808	C	C4'-C3'-C2'	-5.31	97.29	102.60
1	N	942	G	O4'-C1'-N9	5.31	112.45	108.20
1	N	28	A	C5-C6-N1	-5.31	115.04	117.70
1	N	53	A	N3-C4-C5	-5.31	123.08	126.80
1	N	376	G	N3-C4-C5	5.31	131.26	128.60
1	N	785	G	C8-N9-C1'	-5.31	120.09	127.00
1	N	1065	U	C4-C5-C6	5.31	122.89	119.70
1	N	1218	C	O4'-C4'-C3'	-5.31	98.69	104.00
1	N	1319	A	OP1-P-O3'	5.31	116.89	105.20
1	N	98	A	C5-C6-N6	-5.31	119.45	123.70
1	N	366	A	C4-N9-C1'	5.31	135.86	126.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	987	G	C4-N9-C1'	-5.31	119.60	126.50
1	N	127	G	C4'-C3'-C2'	-5.31	97.29	102.60
1	N	483	C	N1-C1'-C2'	5.31	120.90	114.00
1	N	667	G	N9-C4-C5	5.31	107.52	105.40
1	N	875	U	C5-C6-N1	5.31	125.36	122.70
1	N	1057	G	C8-N9-C4	-5.31	104.28	106.40
1	N	148	G	N1-C6-O6	5.31	123.08	119.90
1	N	542	G	C6-N1-C2	5.31	128.28	125.10
1	N	800	G	C4-C5-N7	-5.31	108.68	110.80
1	N	153	C	N1-C2-O2	5.31	122.08	118.90
1	N	509	A	C5-N7-C8	5.31	106.55	103.90
1	N	108	G	N3-C4-C5	-5.30	125.95	128.60
1	N	745	G	C6-C5-N7	-5.30	127.22	130.40
1	N	1146	A	O4'-C1'-N9	5.30	112.44	108.20
1	N	1312	G	N3-C4-N9	-5.30	122.82	126.00
1	N	398	U	N1-C2-O2	-5.30	119.09	122.80
1	N	1186	G	C5-C6-O6	-5.30	125.42	128.60
1	N	818	G	N9-C4-C5	5.30	107.52	105.40
1	N	1305	G	N7-C8-N9	5.30	115.75	113.10
1	N	1469	C	C5-C6-N1	5.30	123.65	121.00
1	N	1487	G	N9-C4-C5	5.30	107.52	105.40
1	N	286	C	N3-C4-N4	5.30	121.71	118.00
1	N	373	A	P-O5'-C5'	-5.30	112.42	120.90
1	N	384	G	N1-C2-N3	-5.30	120.72	123.90
1	N	494	G	N9-C4-C5	5.30	107.52	105.40
1	N	666	G	N9-C4-C5	-5.30	103.28	105.40
1	N	1008	U	O4'-C1'-N1	5.30	112.44	108.20
1	N	1030	U	C3'-C2'-C1'	-5.30	97.26	101.50
1	N	1181	G	C6-C5-N7	-5.30	127.22	130.40
1	N	442	G	C1'-O4'-C4'	-5.30	105.66	109.90
1	N	985	C	C6-N1-C2	-5.30	118.18	120.30
1	N	1148	U	C6-N1-C1'	-5.30	113.78	121.20
1	N	80	A	O4'-C1'-C2'	-5.30	100.50	105.80
1	N	499	A	C5-N7-C8	-5.30	101.25	103.90
1	N	591	U	C4-C5-C6	-5.30	116.52	119.70
1	N	702	A	C8-N9-C1'	-5.30	118.17	127.70
1	N	729	A	C5-C6-N1	-5.30	115.05	117.70
1	N	738	C	O4'-C1'-N1	5.30	112.44	108.20
1	N	844	G	C4-C5-C6	5.30	121.98	118.80
1	N	1227	A	C5-N7-C8	5.30	106.55	103.90
1	N	1262	C	OP1-P-OP2	-5.30	111.66	119.60
1	N	1270	G	C5'-C4'-O4'	5.30	115.46	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	356	A	C4-C5-N7	5.29	113.35	110.70
1	N	671	G	C6-C5-N7	-5.29	127.22	130.40
1	N	706	A	C4'-C3'-C2'	-5.29	97.31	102.60
1	N	770	C	N3-C4-N4	5.29	121.71	118.00
1	N	941	G	N3-C4-N9	5.29	129.18	126.00
1	N	971	G	N1-C6-O6	5.29	123.08	119.90
1	N	1066	C	N1-C2-O2	5.29	122.08	118.90
1	N	1335	U	C6-N1-C2	5.29	124.18	121.00
1	N	255	G	O4'-C4'-C3'	-5.29	98.71	104.00
1	N	548	G	C4-N9-C1'	5.29	133.38	126.50
1	N	601	G	C8-N9-C4	5.29	108.52	106.40
1	N	731	G	C8-N9-C1'	5.29	133.88	127.00
1	N	1187	G	N3-C2-N2	5.29	123.61	119.90
1	N	346	G	C4-N9-C1'	5.29	133.38	126.50
1	N	368	U	N1-C2-O2	5.29	126.50	122.80
1	N	1187	G	C5'-C4'-O4'	5.29	115.45	109.10
1	N	1341	U	C4-C5-C6	5.29	122.88	119.70
1	N	684	U	N1-C2-O2	-5.29	119.10	122.80
1	N	1364	U	O4'-C1'-C2'	-5.29	100.51	105.80
1	N	796	C	C2'-C3'-O3'	5.29	122.16	113.70
1	N	822	U	N1-C2-N3	-5.29	111.73	114.90
1	N	828	U	C5'-C4'-O4'	-5.29	102.75	109.10
1	N	859	G	N1-C6-O6	5.29	123.07	119.90
1	N	1074	G	C6-C5-N7	-5.29	127.23	130.40
1	N	634	C	C5'-C4'-O4'	5.29	115.44	109.10
1	N	1497	G	C8-N9-C1'	5.29	133.87	127.00
1	N	397	A	N3-C4-C5	-5.29	123.10	126.80
1	N	1039	G	N3-C4-N9	5.29	129.17	126.00
1	N	1071	C	C6-N1-C2	5.29	122.41	120.30
1	N	1472	U	C1'-O4'-C4'	5.29	114.13	109.90
1	N	771	G	C8-N9-C4	5.28	108.51	106.40
1	N	933	G	C5-N7-C8	-5.28	101.66	104.30
1	N	1417	G	C8-N9-C1'	-5.28	120.13	127.00
1	N	1446	A	P-O5'-C5'	-5.28	112.45	120.90
1	N	1495	U	N1-C2-O2	5.28	126.50	122.80
1	N	157	U	C5-C6-N1	5.28	125.34	122.70
1	N	337	G	O4'-C4'-C3'	5.28	110.33	106.10
1	N	1171	A	O4'-C1'-N9	5.28	112.42	108.20
1	N	148	G	C5-N7-C8	5.28	106.94	104.30
1	N	187	G	C5-C6-O6	-5.28	125.43	128.60
1	N	506	G	C4-C5-C6	5.28	121.97	118.80
1	N	604	G	C1'-O4'-C4'	-5.28	105.68	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	633	G	N7-C8-N9	5.28	115.74	113.10
1	N	680	C	C6-N1-C2	-5.28	118.19	120.30
1	N	1132	C	P-O5'-C5'	5.28	129.35	120.90
1	N	1201	A	O4'-C1'-C2'	-5.28	100.52	105.80
1	N	1252	A	C1'-O4'-C4'	5.28	114.12	109.90
1	N	1508	A	C5-C6-N6	-5.28	119.47	123.70
1	N	1508	A	C5-N7-C8	5.28	106.54	103.90
1	N	974	A	P-O5'-C5'	5.28	129.35	120.90
1	N	1498	U	C3'-C2'-C1'	5.28	105.72	101.50
1	N	49	U	C5'-C4'-C3'	-5.28	107.56	116.00
1	N	75	G	C5'-C4'-O4'	5.28	115.43	109.10
1	N	79	G	N1-C2-N3	-5.28	120.73	123.90
1	N	792	A	C5-C6-N6	-5.28	119.48	123.70
1	N	814	A	C5'-C4'-O4'	5.28	115.43	109.10
1	N	958	A	C6-N1-C2	-5.28	115.43	118.60
1	N	1094	G	O4'-C1'-N9	5.28	112.42	108.20
1	N	1149	C	C2'-C3'-O3'	5.28	122.14	113.70
1	N	1158	C	C1'-O4'-C4'	5.28	114.12	109.90
1	N	298	A	N1-C2-N3	5.28	131.94	129.30
1	N	315	A	N3-C4-C5	-5.28	123.11	126.80
1	N	347	G	N3-C2-N2	5.28	123.59	119.90
1	N	423	G	N1-C2-N3	-5.28	120.73	123.90
1	N	525	C	C5'-C4'-C3'	5.28	124.44	116.00
1	N	1087	G	O5'-P-OP1	-5.28	100.95	105.70
1	N	1321	U	C5-C6-N1	5.28	125.34	122.70
1	N	626	G	P-O3'-C3'	-5.27	113.37	119.70
1	N	796	C	C5-C6-N1	-5.27	118.36	121.00
1	N	852	G	C2-N3-C4	-5.27	109.26	111.90
1	N	964	A	P-O3'-C3'	5.27	126.03	119.70
1	N	1237	C	C5-C6-N1	5.27	123.64	121.00
1	N	296	U	O4'-C1'-C2'	-5.27	100.53	105.80
1	N	950	U	C5-C6-N1	5.27	125.34	122.70
1	N	752	G	C8-N9-C4	5.27	108.51	106.40
1	N	1253	G	C8-N9-C4	-5.27	104.29	106.40
1	N	75	G	N3-C4-C5	5.27	131.24	128.60
1	N	442	G	C4-C5-N7	5.27	112.91	110.80
1	N	780	A	C4-C5-N7	-5.27	108.06	110.70
1	N	399	G	C5'-C4'-C3'	5.27	124.43	116.00
1	N	649	A	C4-C5-N7	-5.27	108.07	110.70
1	N	789	U	C1'-O4'-C4'	-5.27	105.69	109.90
1	N	973	G	C5'-C4'-C3'	5.27	124.43	116.00
1	N	1127	G	C6-C5-N7	-5.27	127.24	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1498	U	N1-C2-N3	5.27	118.06	114.90
1	N	1507	A	C1'-O4'-C4'	5.27	114.11	109.90
1	N	108	G	C4-C5-N7	-5.27	108.69	110.80
1	N	391	G	C8-N9-C1'	5.27	133.84	127.00
1	N	816	A	C5-N7-C8	-5.27	101.27	103.90
1	N	956	U	P-O3'-C3'	-5.27	113.38	119.70
1	N	1033	G	N1-C6-O6	5.27	123.06	119.90
1	N	129	A	C5-C6-N1	-5.26	115.07	117.70
1	N	927	G	C5-C6-N1	-5.26	108.87	111.50
1	N	1356	G	N9-C4-C5	5.26	107.51	105.40
1	N	24	U	N1-C2-O2	-5.26	119.12	122.80
1	N	376	G	N9-C4-C5	-5.26	103.30	105.40
1	N	771	G	C6-C5-N7	-5.26	127.24	130.40
1	N	776	G	O5'-C5'-C4'	-5.26	101.70	111.70
1	N	58	C	C3'-C2'-C1'	5.26	105.71	101.50
1	N	69	G	C8-N9-C4	-5.26	104.30	106.40
1	N	804	U	C5-C6-N1	-5.26	120.07	122.70
1	N	1006	G	O4'-C1'-N9	5.26	112.41	108.20
1	N	1038	C	N1-C1'-C2'	-5.26	106.21	112.00
1	N	1343	G	C6-C5-N7	-5.26	127.24	130.40
1	N	1458	G	C4-C5-C6	5.26	121.96	118.80
1	N	1486	G	N3-C4-N9	-5.26	122.84	126.00
1	N	577	G	C1'-O4'-C4'	5.26	114.11	109.90
1	N	764	C	P-O3'-C3'	-5.26	113.39	119.70
1	N	1148	U	N1-C2-O2	-5.26	119.12	122.80
1	N	1152	A	C6-C5-N7	-5.26	128.62	132.30
1	N	215	C	C4-C5-C6	5.26	120.03	117.40
1	N	446	G	C4-C5-C6	5.26	121.95	118.80
1	N	543	U	O4'-C1'-N1	5.26	112.41	108.20
1	N	1023	U	N1-C2-O2	-5.26	119.12	122.80
1	N	9	G	C5-C6-N1	-5.26	108.87	111.50
1	N	395	C	O5'-C5'-C4'	-5.26	101.71	111.70
1	N	481	G	O3'-P-O5'	-5.26	94.01	104.00
1	N	560	A	O4'-C1'-N9	5.26	112.41	108.20
1	N	880	C	O4'-C1'-N1	5.26	112.41	108.20
1	N	1222	G	C5-C6-O6	-5.26	125.45	128.60
1	N	1248	A	C5-N7-C8	5.26	106.53	103.90
1	N	1266	G	N3-C4-N9	-5.26	122.85	126.00
1	N	388	G	N1-C2-N3	-5.25	120.75	123.90
1	N	813	U	C1'-O4'-C4'	5.25	114.10	109.90
1	N	886	G	C5'-C4'-O4'	5.25	115.41	109.10
1	N	1240	U	O4'-C1'-C2'	-5.25	100.55	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1374	A	C6-C5-N7	-5.25	128.62	132.30
1	N	796	C	C4'-C3'-O3'	-5.25	98.37	109.40
1	N	993	G	C5-C6-O6	-5.25	125.45	128.60
1	N	1278	G	N9-C1'-C2'	-5.25	106.22	112.00
1	N	98	A	C5'-C4'-O4'	5.25	115.40	109.10
1	N	200	G	C8-N9-C1'	-5.25	120.17	127.00
1	N	1042	A	O3'-P-O5'	-5.25	94.02	104.00
1	N	1289	A	N9-C4-C5	5.25	107.90	105.80
1	N	215	C	N3-C4-C5	-5.25	119.80	121.90
1	N	386	C	N3-C2-O2	5.25	125.58	121.90
1	N	620	C	N3-C2-O2	5.25	125.58	121.90
1	N	875	U	P-O3'-C3'	-5.25	113.40	119.70
1	N	1136	C	P-O5'-C5'	-5.25	112.50	120.90
1	N	1245	C	C5'-C4'-C3'	-5.25	107.60	116.00
1	N	1245	C	C2-N1-C1'	5.25	124.58	118.80
1	N	35	G	C5-C6-N1	-5.25	108.88	111.50
1	N	149	A	C6-N1-C2	-5.25	115.45	118.60
1	N	258	G	C2-N3-C4	-5.25	109.28	111.90
1	N	721	G	N9-C4-C5	-5.25	103.30	105.40
1	N	917	G	C5'-C4'-O4'	-5.25	102.80	109.10
1	N	992	U	C3'-C2'-C1'	-5.25	97.30	101.50
1	N	1124	G	C4'-C3'-C2'	-5.25	97.35	102.60
1	N	1330	U	C2-N3-C4	5.25	130.15	127.00
1	N	351	G	P-O3'-C3'	5.25	126.00	119.70
1	N	535	A	C6-C5-N7	-5.25	128.63	132.30
1	N	1467	C	P-O3'-C3'	-5.25	113.40	119.70
1	N	1516	G	C4-C5-N7	5.25	112.90	110.80
1	N	226	G	C5-N7-C8	-5.25	101.68	104.30
1	N	477	C	C5-C6-N1	5.25	123.62	121.00
1	N	705	G	N1-C2-N2	-5.25	111.48	116.20
1	N	1041	G	N9-C4-C5	-5.25	103.30	105.40
1	N	496	A	C6-C5-N7	-5.24	128.63	132.30
1	N	826	C	C4-C5-C6	-5.24	114.78	117.40
1	N	1208	C	C5-C6-N1	-5.24	118.38	121.00
1	N	730	G	N9-C4-C5	-5.24	103.30	105.40
1	N	1465	A	C6-N1-C2	5.24	121.75	118.60
1	N	617	G	C4'-C3'-C2'	-5.24	97.36	102.60
1	N	697	U	O4'-C1'-N1	5.24	112.39	108.20
1	N	775	G	OP1-P-OP2	-5.24	111.74	119.60
1	N	878	A	C3'-C2'-C1'	5.24	105.69	101.50
1	N	1195	C	C3'-C2'-C1'	-5.24	97.31	101.50
1	N	1268	G	C5-N7-C8	-5.24	101.68	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1313	U	O4'-C1'-N1	5.24	112.39	108.20
1	N	1428	A	P-O3'-C3'	5.24	125.99	119.70
1	N	119	A	O4'-C1'-N9	5.24	112.39	108.20
1	N	643	C	C5-C4-N4	-5.24	116.53	120.20
1	N	1126	U	N3-C4-O4	5.24	123.07	119.40
1	N	1413	A	C8-N9-C4	-5.24	103.70	105.80
1	N	1417	G	C6-C5-N7	-5.24	127.26	130.40
1	N	963	G	O4'-C4'-C3'	-5.24	98.76	104.00
1	N	1257	A	C1'-O4'-C4'	5.24	114.09	109.90
1	N	1392	G	C6-N1-C2	-5.24	121.96	125.10
1	N	208	U	P-O3'-C3'	5.24	125.98	119.70
1	N	225	C	N1-C2-N3	-5.24	115.53	119.20
1	N	246	A	C2-N3-C4	-5.24	107.98	110.60
1	N	460	A	C4'-C3'-C2'	-5.24	97.36	102.60
1	N	558	G	C5-C6-O6	-5.24	125.46	128.60
1	N	617	G	C3'-C2'-C1'	5.24	105.69	101.50
1	N	755	G	C5'-C4'-C3'	-5.24	107.62	116.00
1	N	825	A	C5-N7-C8	-5.24	101.28	103.90
1	N	1041	G	N1-C2-N3	-5.24	120.76	123.90
1	N	1131	G	N9-C1'-C2'	-5.24	106.24	112.00
1	N	1180	A	P-O3'-C3'	5.24	125.98	119.70
1	N	171	A	C5-C6-N1	-5.23	115.08	117.70
1	N	272	C	C4-C5-C6	-5.23	114.78	117.40
1	N	386	C	C2-N3-C4	5.23	122.52	119.90
1	N	502	A	C5-N7-C8	5.23	106.52	103.90
1	N	655	A	N3-C4-C5	-5.23	123.14	126.80
1	N	752	G	N7-C8-N9	-5.23	110.48	113.10
1	N	1214	C	C5-C6-N1	5.23	123.62	121.00
1	N	1357	A	C2-N3-C4	-5.23	107.98	110.60
1	N	1454	G	C5-N7-C8	5.23	106.92	104.30
1	N	1469	C	C5-C4-N4	-5.23	116.54	120.20
1	N	30	U	C4-C5-C6	5.23	122.84	119.70
1	N	66	A	O4'-C1'-C2'	-5.23	100.57	105.80
1	N	184	G	O4'-C1'-N9	5.23	112.39	108.20
1	N	377	G	N1-C2-N2	5.23	120.91	116.20
1	N	380	G	C8-N9-C1'	5.23	133.80	127.00
1	N	825	A	N1-C2-N3	-5.23	126.68	129.30
1	N	972	C	C5'-C4'-O4'	-5.23	102.82	109.10
1	N	1354	U	C5-C4-O4	-5.23	122.76	125.90
1	N	1530	G	N3-C2-N2	5.23	123.56	119.90
1	N	71	A	P-O5'-C5'	-5.23	112.53	120.90
1	N	106	C	C4-C5-C6	5.23	120.02	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	236	A	C6-N1-C2	-5.23	115.46	118.60
1	N	384	G	N9-C4-C5	5.23	107.49	105.40
1	N	386	C	C6-N1-C2	5.23	122.39	120.30
1	N	406	G	N1-C2-N3	-5.23	120.76	123.90
1	N	428	G	N3-C4-C5	-5.23	125.98	128.60
1	N	546	A	C8-N9-C4	-5.23	103.71	105.80
1	N	685	G	N3-C2-N2	5.23	123.56	119.90
1	N	1218	C	C5-C6-N1	5.23	123.61	121.00
1	N	1505	G	C6-C5-N7	-5.23	127.26	130.40
1	N	167	A	C2'-C3'-O3'	5.23	122.06	113.70
1	N	424	G	C5-C6-O6	-5.23	125.46	128.60
1	N	801	U	C5'-C4'-C3'	5.23	124.36	116.00
1	N	909	A	C1'-O4'-C4'	-5.23	105.72	109.90
1	N	995	C	C6-N1-C2	-5.23	118.21	120.30
1	N	1241	G	OP2-P-O3'	5.23	116.70	105.20
1	N	1439	G	C1'-O4'-C4'	5.23	114.08	109.90
1	N	300	A	C5-N7-C8	5.22	106.51	103.90
1	N	451	A	O4'-C1'-N9	5.22	112.38	108.20
1	N	1178	G	N7-C8-N9	5.22	115.71	113.10
1	N	1207	G	N7-C8-N9	-5.22	110.49	113.10
1	N	1499	A	N7-C8-N9	-5.22	111.19	113.80
1	N	1529	G	O4'-C1'-N9	5.22	112.38	108.20
1	N	181	A	C3'-C2'-C1'	5.22	105.68	101.50
1	N	250	A	P-O3'-C3'	5.22	125.97	119.70
1	N	1101	A	C4-C5-C6	5.22	119.61	117.00
1	N	633	G	N9-C4-C5	5.22	107.49	105.40
1	N	747	A	N3-C4-C5	-5.22	123.14	126.80
1	N	1183	U	C1'-O4'-C4'	5.22	114.08	109.90
1	N	1226	C	C5'-C4'-C3'	-5.22	107.65	116.00
1	N	1320	C	C6-N1-C1'	-5.22	114.53	120.80
1	N	237	G	C5'-C4'-C3'	-5.22	107.65	116.00
1	N	1166	G	C5-C6-N1	-5.22	108.89	111.50
1	N	1222	G	C8-N9-C4	-5.22	104.31	106.40
1	N	335	C	N3-C4-C5	-5.22	119.81	121.90
1	N	683	G	C6-N1-C2	5.22	128.23	125.10
1	N	1241	G	C5-C6-N1	-5.22	108.89	111.50
1	N	1312	G	C4-C5-N7	-5.22	108.71	110.80
1	N	773	G	C6-C5-N7	-5.22	127.27	130.40
1	N	1482	G	C1'-O4'-C4'	-5.22	105.73	109.90
1	N	329	A	C5-C6-N6	-5.21	119.53	123.70
1	N	847	G	C4-C5-C6	5.21	121.93	118.80
1	N	960	U	C5'-C4'-C3'	5.21	124.34	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1351	U	O4'-C1'-N1	5.21	112.37	108.20
1	N	1435	G	N3-C4-C5	5.21	131.21	128.60
1	N	28	A	C5-C6-N6	-5.21	119.53	123.70
1	N	1365	G	N3-C4-C5	-5.21	125.99	128.60
1	N	1514	G	C2-N3-C4	5.21	114.51	111.90
1	N	441	A	N1-C6-N6	5.21	121.73	118.60
1	N	525	C	C6-N1-C2	5.21	122.38	120.30
1	N	691	G	N1-C2-N3	-5.21	120.77	123.90
1	N	693	G	C1'-O4'-C4'	-5.21	105.73	109.90
1	N	861	G	C5'-C4'-O4'	5.21	115.35	109.10
1	N	1125	U	C3'-C2'-C1'	5.21	105.67	101.50
1	N	1248	A	C2-N3-C4	5.21	113.21	110.60
1	N	1433	A	O4'-C4'-C3'	-5.21	98.79	104.00
1	N	1531	A	C8-N9-C4	-5.21	103.72	105.80
1	N	214	C	C2'-C3'-O3'	5.21	122.04	113.70
1	N	944	G	C5-C6-N1	5.21	114.11	111.50
1	N	1071	C	N3-C4-N4	5.21	121.65	118.00
1	N	1368	A	C2-N3-C4	-5.21	108.00	110.60
1	N	1467	C	C1'-O4'-C4'	5.21	114.07	109.90
1	N	313	A	N1-C6-N6	5.21	121.72	118.60
1	N	781	A	OP1-P-OP2	-5.21	111.79	119.60
1	N	1267	C	O4'-C1'-N1	5.21	112.37	108.20
1	N	817	C	C5-C6-N1	5.21	123.60	121.00
1	N	592	G	N1-C2-N2	5.21	120.89	116.20
1	N	647	C	C2'-C3'-O3'	5.21	122.03	113.70
1	N	869	G	C4'-C3'-C2'	-5.21	97.39	102.60
1	N	35	G	C8-N9-C4	-5.20	104.32	106.40
1	N	326	G	N3-C2-N2	5.20	123.54	119.90
1	N	720	C	C4'-C3'-C2'	-5.20	97.40	102.60
1	N	740	U	C3'-C2'-C1'	5.20	105.66	101.50
1	N	1057	G	OP1-P-OP2	-5.20	111.80	119.60
1	N	1103	C	C3'-C2'-C1'	5.20	105.66	101.50
1	N	1273	C	N3-C4-N4	5.20	121.64	118.00
1	N	267	C	O5'-P-OP2	-5.20	101.02	105.70
1	N	417	G	C2-N3-C4	-5.20	109.30	111.90
1	N	451	A	C4-C5-C6	5.20	119.60	117.00
1	N	535	A	C2'-C3'-O3'	5.20	122.02	113.70
1	N	640	A	C4-C5-C6	5.20	119.60	117.00
1	N	778	G	C4-C5-C6	5.20	121.92	118.80
1	N	878	A	O5'-P-OP1	-5.20	101.02	105.70
1	N	995	C	OP2-P-O3'	5.20	116.64	105.20
1	N	1005	A	N9-C4-C5	5.20	107.88	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1041	G	C2-N3-C4	-5.20	109.30	111.90
1	N	1118	U	C2-N3-C4	-5.20	123.88	127.00
1	N	1131	G	N7-C8-N9	-5.20	110.50	113.10
1	N	1433	A	C2-N3-C4	-5.20	108.00	110.60
1	N	100	G	C6-C5-N7	-5.20	127.28	130.40
1	N	150	U	N1-C2-N3	5.20	118.02	114.90
1	N	430	A	N3-C4-C5	5.20	130.44	126.80
1	N	736	C	C2-N1-C1'	5.20	124.52	118.80
1	N	748	G	P-O3'-C3'	-5.20	113.46	119.70
1	N	750	C	C6-N1-C2	-5.20	118.22	120.30
1	N	1158	C	C6-N1-C2	-5.20	118.22	120.30
1	N	49	U	OP1-P-O3'	5.20	116.63	105.20
1	N	1016	A	OP1-P-OP2	-5.20	111.80	119.60
1	N	254	G	O5'-C5'-C4'	-5.20	101.83	111.70
1	N	700	G	C5-C6-O6	-5.20	125.48	128.60
1	N	773	G	C6-N1-C2	5.20	128.22	125.10
1	N	1343	G	C4-C5-C6	5.20	121.92	118.80
1	N	929	G	C4-C5-C6	5.19	121.92	118.80
1	N	1316	G	N1-C6-O6	5.19	123.02	119.90
1	N	1432	G	P-O5'-C5'	5.19	129.21	120.90
1	N	60	A	C4'-C3'-C2'	5.19	107.79	102.60
1	N	320	A	C1'-O4'-C4'	5.19	114.05	109.90
1	N	689	C	C5-C6-N1	5.19	123.60	121.00
1	N	1171	A	C5'-C4'-O4'	5.19	115.33	109.10
1	N	1269	A	C8-N9-C4	-5.19	103.72	105.80
1	N	1319	A	N7-C8-N9	-5.19	111.20	113.80
1	N	573	A	C5-N7-C8	5.19	106.50	103.90
1	N	630	A	N1-C2-N3	5.19	131.90	129.30
1	N	636	U	P-O3'-C3'	-5.19	113.47	119.70
1	N	676	A	C4'-C3'-C2'	-5.19	97.41	102.60
1	N	1016	A	P-O5'-C5'	-5.19	112.59	120.90
1	N	1077	G	C4-N9-C1'	-5.19	119.75	126.50
1	N	1228	C	C5-C6-N1	5.19	123.59	121.00
1	N	1262	C	N1-C2-N3	5.19	122.83	119.20
1	N	670	G	C5'-C4'-O4'	-5.19	102.87	109.10
1	N	1390	U	C6-N1-C1'	5.19	128.47	121.20
1	N	289	G	OP1-P-OP2	-5.19	111.82	119.60
1	N	592	G	C8-N9-C4	-5.19	104.33	106.40
1	N	765	G	N1-C2-N3	-5.19	120.79	123.90
1	N	1088	G	C4'-C3'-C2'	-5.19	97.41	102.60
1	N	1105	A	C3'-C2'-C1'	5.19	105.65	101.50
1	N	1384	C	O4'-C4'-C3'	-5.19	98.81	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1440	U	C4'-C3'-C2'	-5.19	97.41	102.60
1	N	626	G	C5-C6-O6	-5.19	125.49	128.60
1	N	1278	G	C6-C5-N7	-5.19	127.29	130.40
1	N	1356	G	C4-C5-N7	-5.19	108.72	110.80
1	N	83	C	C5'-C4'-C3'	-5.18	107.70	116.00
1	N	257	G	N3-C4-C5	-5.18	126.01	128.60
1	N	676	A	C4-C5-C6	5.18	119.59	117.00
1	N	911	U	N1-C2-O2	-5.18	119.17	122.80
1	N	1270	G	C5-C6-N1	-5.18	108.91	111.50
1	N	1354	U	P-O5'-C5'	5.18	129.19	120.90
1	N	75	G	C3'-C2'-C1'	-5.18	97.35	101.50
1	N	155	A	P-O5'-C5'	5.18	129.19	120.90
1	N	606	G	C8-N9-C4	-5.18	104.33	106.40
1	N	780	A	P-O3'-C3'	5.18	125.92	119.70
1	N	1374	A	C6-N1-C2	5.18	121.71	118.60
1	N	91	U	N3-C4-C5	-5.18	111.49	114.60
1	N	101	A	C5-C6-N6	-5.18	119.56	123.70
1	N	406	G	N1-C2-N2	-5.18	111.54	116.20
1	N	501	C	C5-C4-N4	-5.18	116.58	120.20
1	N	588	G	C4-C5-C6	5.18	121.91	118.80
1	N	1418	A	C5-C6-N1	-5.18	115.11	117.70
1	N	13	U	N1-C2-N3	5.18	118.01	114.90
1	N	715	A	C8-N9-C4	-5.18	103.73	105.80
1	N	858	G	C4'-C3'-O3'	5.18	123.36	113.00
1	N	231	U	O4'-C1'-N1	5.18	112.34	108.20
1	N	861	G	C8-N9-C4	5.18	108.47	106.40
1	N	941	G	C8-N9-C4	-5.18	104.33	106.40
1	N	1067	A	C5-C6-N6	-5.18	119.56	123.70
1	N	169	C	N1-C1'-C2'	-5.17	106.31	112.00
1	N	212	G	C5'-C4'-O4'	-5.17	102.89	109.10
1	N	484	G	C4-C5-N7	5.17	112.87	110.80
1	N	601	G	N7-C8-N9	-5.17	110.51	113.10
1	N	635	A	C4-C5-N7	5.17	113.29	110.70
1	N	665	A	P-O3'-C3'	-5.17	113.49	119.70
1	N	779	C	OP1-P-OP2	-5.17	111.84	119.60
1	N	1127	G	C4-C5-N7	-5.17	108.73	110.80
1	N	1232	U	N3-C4-C5	-5.17	111.50	114.60
1	N	44	A	C3'-C2'-C1'	-5.17	97.36	101.50
1	N	307	C	C5'-C4'-C3'	5.17	124.28	116.00
1	N	565	U	N3-C4-C5	5.17	117.70	114.60
1	N	1012	A	C5-N7-C8	5.17	106.49	103.90
1	N	1256	A	N3-C4-N9	5.17	131.54	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	77	A	O4'-C1'-N9	5.17	112.34	108.20
1	N	347	G	N9-C4-C5	-5.17	103.33	105.40
1	N	812	G	C5'-C4'-O4'	5.17	115.31	109.10
1	N	1209	C	C5-C4-N4	-5.17	116.58	120.20
1	N	1260	G	C4'-C3'-C2'	-5.17	97.43	102.60
1	N	1392	G	O4'-C1'-N9	5.17	112.34	108.20
1	N	1409	C	C2-N3-C4	5.17	122.48	119.90
1	N	1422	G	N3-C4-C5	-5.17	126.01	128.60
1	N	942	G	N3-C2-N2	5.17	123.52	119.90
1	N	1202	U	N1-C2-O2	5.17	126.42	122.80
1	N	1287	A	C4-C5-N7	-5.17	108.11	110.70
1	N	1385	G	C1'-O4'-C4'	5.17	114.03	109.90
1	N	93	U	OP1-P-OP2	-5.17	111.85	119.60
1	N	383	A	O4'-C1'-N9	5.17	112.33	108.20
1	N	603	U	N3-C4-O4	5.17	123.02	119.40
1	N	865	A	P-O3'-C3'	5.17	125.90	119.70
1	N	866	C	C5-C4-N4	-5.17	116.58	120.20
1	N	998	C	O4'-C1'-C2'	-5.17	100.63	105.80
1	N	1015	G	C2-N3-C4	5.17	114.48	111.90
1	N	1167	A	N1-C2-N3	5.17	131.88	129.30
1	N	1197	A	P-O3'-C3'	-5.17	113.50	119.70
1	N	1202	U	C5-C4-O4	-5.17	122.80	125.90
1	N	143	A	N9-C4-C5	5.17	107.87	105.80
1	N	559	A	C8-N9-C1'	-5.17	118.40	127.70
1	N	666	G	C4-C5-N7	5.17	112.87	110.80
1	N	683	G	C6-C5-N7	-5.17	127.30	130.40
1	N	1080	A	C4-C5-N7	-5.17	108.12	110.70
1	N	1199	U	C5-C6-N1	5.17	125.28	122.70
1	N	1423	G	C5-C6-O6	-5.17	125.50	128.60
1	N	136	C	C6-N1-C1'	-5.16	114.60	120.80
1	N	531	U	O4'-C4'-C3'	-5.16	98.84	104.00
1	N	601	G	C6-N1-C2	-5.16	122.00	125.10
1	N	632	U	C3'-C2'-C1'	5.16	105.63	101.50
1	N	993	G	N9-C4-C5	-5.16	103.33	105.40
1	N	1043	G	O4'-C1'-N9	5.16	112.33	108.20
1	N	1254	A	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	1339	A	N1-C2-N3	5.16	131.88	129.30
1	N	1468	A	C4-C5-C6	5.16	119.58	117.00
1	N	439	U	O4'-C4'-C3'	-5.16	98.84	104.00
1	N	709	U	C2'-C3'-O3'	5.16	121.96	113.70
1	N	1163	A	C8-N9-C4	-5.16	103.73	105.80
1	N	1188	A	C5'-C4'-C3'	-5.16	107.74	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	219	U	N3-C4-C5	-5.16	111.50	114.60
1	N	324	G	C5'-C4'-C3'	5.16	124.26	116.00
1	N	814	A	C5'-C4'-C3'	-5.16	107.74	116.00
1	N	921	U	N1-C2-N3	5.16	118.00	114.90
1	N	994	A	C5'-C4'-O4'	5.16	115.29	109.10
1	N	1028	C	O4'-C1'-C2'	-5.16	100.64	105.80
1	N	1157	A	C6-C5-N7	-5.16	128.69	132.30
1	N	1459	G	O5'-C5'-C4'	-5.16	101.90	111.70
1	N	1497	G	C5'-C4'-O4'	5.16	115.29	109.10
1	N	78	A	C4'-C3'-C2'	-5.16	97.44	102.60
1	N	350	G	N1-C2-N3	-5.16	120.80	123.90
1	N	675	A	C2-N3-C4	5.16	113.18	110.60
1	N	973	G	C8-N9-C4	-5.16	104.34	106.40
1	N	1171	A	P-O3'-C3'	5.16	125.89	119.70
1	N	186	C	P-O3'-C3'	-5.16	113.51	119.70
1	N	320	A	C5'-C4'-C3'	-5.16	107.75	116.00
1	N	1089	G	N3-C2-N2	5.16	123.51	119.90
1	N	573	A	C5-C6-N1	-5.16	115.12	117.70
1	N	739	C	P-O5'-C5'	5.16	129.15	120.90
1	N	747	A	C6-C5-N7	-5.16	128.69	132.30
1	N	767	A	C2-N3-C4	-5.16	108.02	110.60
1	N	972	C	P-O5'-C5'	-5.16	112.65	120.90
1	N	1012	A	C5-C6-N1	-5.16	115.12	117.70
1	N	1182	G	C5'-C4'-O4'	5.16	115.29	109.10
1	N	1385	G	C5-C6-O6	5.16	131.69	128.60
1	N	681	A	C5-C6-N6	-5.15	119.58	123.70
1	N	1147	C	P-O3'-C3'	5.15	125.89	119.70
1	N	51	A	C5-N7-C8	5.15	106.48	103.90
1	N	113	G	O4'-C1'-N9	5.15	112.32	108.20
1	N	427	U	C4-C5-C6	5.15	122.79	119.70
1	N	685	G	O4'-C1'-N9	5.15	112.32	108.20
1	N	1485	U	N1-C2-O2	-5.15	119.19	122.80
1	N	133	U	C5-C4-O4	-5.15	122.81	125.90
1	N	352	C	O3'-P-O5'	-5.15	94.21	104.00
1	N	509	A	N1-C6-N6	5.15	121.69	118.60
1	N	1200	C	N1-C2-O2	-5.15	115.81	118.90
1	N	1271	A	O4'-C1'-N9	5.15	112.32	108.20
1	N	649	A	N3-C4-N9	-5.15	123.28	127.40
1	N	981	U	N3-C2-O2	5.15	125.80	122.20
1	N	182	A	C4-C5-C6	5.15	119.57	117.00
1	N	223	A	P-O3'-C3'	-5.15	113.52	119.70
1	N	332	G	C4-C5-C6	5.15	121.89	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	650	G	C5-C6-O6	-5.15	125.51	128.60
1	N	1215	G	N7-C8-N9	-5.15	110.53	113.10
1	N	1216	A	P-O5'-C5'	-5.15	112.66	120.90
1	N	1489	G	O4'-C4'-C3'	-5.15	98.85	104.00
1	N	323	U	N1-C2-O2	-5.15	119.20	122.80
1	N	366	A	C2'-C3'-O3'	5.15	121.93	113.70
1	N	609	A	O4'-C1'-N9	5.15	112.32	108.20
1	N	55	A	N7-C8-N9	5.14	116.37	113.80
1	N	1057	G	N1-C2-N3	-5.14	120.81	123.90
1	N	1111	A	N9-C4-C5	5.14	107.86	105.80
1	N	21	G	N3-C2-N2	5.14	123.50	119.90
1	N	351	G	C2-N3-C4	-5.14	109.33	111.90
1	N	708	C	C4'-C3'-C2'	-5.14	97.46	102.60
1	N	713	G	C3'-C2'-C1'	-5.14	97.39	101.50
1	N	1093	A	C2-N3-C4	5.14	113.17	110.60
1	N	1227	A	C6-C5-N7	-5.14	128.70	132.30
1	N	1378	C	C4-C5-C6	-5.14	114.83	117.40
1	N	310	G	C2'-C3'-O3'	5.14	121.92	113.70
1	N	99	C	C6-N1-C1'	5.14	126.97	120.80
1	N	238	A	C4'-C3'-C2'	-5.14	97.46	102.60
1	N	647	C	N3-C4-N4	5.14	121.60	118.00
1	N	733	G	N1-C6-O6	5.14	122.98	119.90
1	N	1293	C	N1-C2-N3	-5.14	115.60	119.20
1	N	29	U	C5'-C4'-C3'	5.14	124.22	116.00
1	N	199	A	N7-C8-N9	5.14	116.37	113.80
1	N	276	G	C1'-O4'-C4'	-5.14	105.79	109.90
1	N	362	G	O4'-C1'-N9	5.14	112.31	108.20
1	N	629	A	C2-N3-C4	5.14	113.17	110.60
1	N	717	U	C5-C6-N1	-5.14	120.13	122.70
1	N	525	C	C6-N1-C1'	-5.14	114.64	120.80
1	N	1127	G	C4'-C3'-C2'	5.14	107.74	102.60
1	N	33	A	OP1-P-OP2	-5.13	111.90	119.60
1	N	305	G	C5-C6-O6	-5.13	125.52	128.60
1	N	474	G	C6-N1-C2	5.13	128.18	125.10
1	N	1031	C	P-O5'-C5'	5.13	129.11	120.90
1	N	1370	G	C4'-C3'-C2'	-5.13	97.47	102.60
1	N	1374	A	N9-C4-C5	-5.13	103.75	105.80
1	N	175	C	O4'-C4'-C3'	5.13	110.21	106.10
1	N	1089	G	P-O5'-C5'	-5.13	112.69	120.90
1	N	1161	C	C5'-C4'-C3'	-5.13	107.79	116.00
1	N	472	U	N3-C4-O4	5.13	122.99	119.40
1	N	758	C	O4'-C1'-N1	5.13	112.31	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	818	G	C4-N9-C1'	5.13	133.17	126.50
1	N	1405	G	C5-C6-O6	-5.13	125.52	128.60
1	N	39	G	C4-C5-C6	-5.13	115.72	118.80
1	N	449	G	C5'-C4'-O4'	-5.13	102.94	109.10
1	N	103	U	N3-C4-C5	-5.13	111.52	114.60
1	N	130	A	N3-C4-N9	-5.13	123.30	127.40
1	N	145	G	N9-C4-C5	5.13	107.45	105.40
1	N	178	C	C5-C4-N4	-5.13	116.61	120.20
1	N	486	U	N3-C2-O2	5.13	125.79	122.20
1	N	855	U	N1-C2-O2	5.13	126.39	122.80
1	N	959	A	C5-N7-C8	5.13	106.46	103.90
1	N	1024	G	C4'-C3'-C2'	-5.13	97.47	102.60
1	N	1127	G	C4-C5-C6	5.13	121.88	118.80
1	N	1431	A	C5'-C4'-O4'	-5.13	102.94	109.10
1	N	1512	U	N1-C2-N3	-5.13	111.82	114.90
1	N	240	G	N7-C8-N9	-5.13	110.54	113.10
1	N	334	C	P-O5'-C5'	5.13	129.10	120.90
1	N	398	U	N1-C2-N3	5.13	117.98	114.90
1	N	613	C	N1-C2-N3	-5.13	115.61	119.20
1	N	632	U	C6-N1-C2	-5.13	117.92	121.00
1	N	680	C	O5'-P-OP1	5.13	116.85	110.70
1	N	1149	C	C1'-O4'-C4'	5.13	114.00	109.90
1	N	815	A	C6-C5-N7	-5.12	128.71	132.30
1	N	913	A	C4-C5-N7	5.12	113.26	110.70
1	N	958	A	N1-C6-N6	5.12	121.67	118.60
1	N	1010	U	C4-C5-C6	5.12	122.78	119.70
1	N	646	G	P-O3'-C3'	-5.12	113.55	119.70
1	N	649	A	C8-N9-C4	-5.12	103.75	105.80
1	N	837	U	N3-C4-C5	-5.12	111.53	114.60
1	N	995	C	N3-C4-C5	-5.12	119.85	121.90
1	N	1148	U	C3'-C2'-C1'	-5.12	97.40	101.50
1	N	1469	C	C1'-O4'-C4'	-5.12	105.80	109.90
1	N	1487	G	C3'-C2'-C1'	-5.12	97.40	101.50
1	N	540	G	O5'-P-OP1	-5.12	101.09	105.70
1	N	570	G	N3-C2-N2	5.12	123.48	119.90
1	N	589	U	C4-C5-C6	5.12	122.77	119.70
1	N	602	A	C5'-C4'-O4'	5.12	115.25	109.10
1	N	1134	G	N1-C2-N2	-5.12	111.59	116.20
1	N	1158	C	C3'-C2'-C1'	5.12	105.60	101.50
1	N	1443	C	C5-C6-N1	5.12	123.56	121.00
1	N	1515	G	N7-C8-N9	5.12	115.66	113.10
1	N	571	U	N3-C4-C5	-5.12	111.53	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1308	U	N1-C2-O2	-5.12	119.22	122.80
1	N	222	C	OP2-P-O3'	5.12	116.46	105.20
1	N	238	A	N1-C6-N6	5.12	121.67	118.60
1	N	508	U	C3'-C2'-C1'	5.12	105.59	101.50
1	N	593	U	C2-N3-C4	-5.12	123.93	127.00
1	N	899	C	N3-C4-N4	5.12	121.58	118.00
1	N	1384	C	N1-C2-N3	-5.12	115.62	119.20
1	N	1372	U	N1-C2-O2	5.12	126.38	122.80
1	N	1492	A	P-O3'-C3'	-5.12	113.56	119.70
1	N	204	G	N1-C6-O6	5.12	122.97	119.90
1	N	248	C	C5'-C4'-O4'	5.12	115.24	109.10
1	N	894	G	C5-C6-O6	-5.12	125.53	128.60
1	N	1316	G	N3-C4-N9	5.12	129.07	126.00
1	N	1530	G	C5'-C4'-C3'	-5.12	107.82	116.00
1	N	435	A	C2-N3-C4	5.11	113.16	110.60
1	N	840	C	N3-C4-C5	-5.11	119.85	121.90
1	N	1007	U	N1-C2-O2	-5.11	119.22	122.80
1	N	1204	A	C3'-C2'-C1'	-5.11	97.41	101.50
1	N	1395	C	C5-C6-N1	5.11	123.56	121.00
1	N	270	A	O5'-C5'-C4'	-5.11	101.99	111.70
1	N	318	G	C4'-C3'-C2'	-5.11	97.49	102.60
1	N	731	G	OP1-P-OP2	-5.11	111.93	119.60
1	N	966	G	N1-C2-N3	-5.11	120.83	123.90
1	N	1307	U	N1-C2-N3	-5.11	111.83	114.90
1	N	1533	C	O5'-C5'-C4'	5.11	121.41	111.70
1	N	196	A	C5'-C4'-C3'	5.11	124.18	116.00
1	N	286	C	N1-C2-N3	5.11	122.78	119.20
1	N	447	G	N9-C4-C5	-5.11	103.36	105.40
1	N	626	G	C4-C5-C6	5.11	121.87	118.80
1	N	659	U	C4'-C3'-C2'	-5.11	97.49	102.60
1	N	833	G	P-O3'-C3'	-5.11	113.57	119.70
1	N	899	C	C6-N1-C1'	-5.11	114.67	120.80
1	N	902	G	C4'-C3'-C2'	-5.11	97.49	102.60
1	N	917	G	C8-N9-C1'	-5.11	120.36	127.00
1	N	1228	C	C5-C4-N4	-5.11	116.62	120.20
1	N	1262	C	C5-C6-N1	5.11	123.56	121.00
1	N	1332	A	O4'-C1'-N9	5.11	112.29	108.20
1	N	1387	G	N9-C4-C5	-5.11	103.36	105.40
1	N	1434	A	C5-N7-C8	5.11	106.45	103.90
1	N	1466	C	C6-N1-C2	5.11	122.34	120.30
1	N	1476	A	C6-C5-N7	-5.11	128.72	132.30
1	N	1161	C	N1-C2-O2	5.11	121.97	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1252	A	P-O5'-C5'	-5.11	112.73	120.90
1	N	1298	U	C2-N3-C4	5.11	130.07	127.00
1	N	1519	A	O4'-C4'-C3'	-5.11	98.89	104.00
1	N	47	C	C5'-C4'-O4'	-5.11	102.97	109.10
1	N	320	A	N9-C4-C5	-5.11	103.76	105.80
1	N	769	G	O4'-C1'-N9	5.11	112.29	108.20
1	N	934	C	N1-C2-O2	-5.11	115.83	118.90
1	N	1044	A	C6-C5-N7	-5.11	128.72	132.30
1	N	1533	C	C6-N1-C2	5.11	122.34	120.30
1	N	253	A	O5'-C5'-C4'	-5.11	102.00	111.70
1	N	284	C	C5-C6-N1	5.11	123.55	121.00
1	N	371	A	O4'-C1'-N9	5.11	112.28	108.20
1	N	1405	G	C4-N9-C1'	-5.11	119.86	126.50
1	N	1510	C	C5'-C4'-O4'	5.11	115.23	109.10
1	N	258	G	C5-C6-N1	-5.10	108.95	111.50
1	N	661	G	C4-C5-C6	5.10	121.86	118.80
1	N	889	A	C4-N9-C1'	5.10	135.49	126.30
1	N	1154	G	P-O5'-C5'	-5.10	112.73	120.90
1	N	1312	G	N7-C8-N9	5.10	115.65	113.10
1	N	1278	G	C8-N9-C1'	-5.10	120.37	127.00
1	N	1424	U	O4'-C4'-C3'	5.10	110.18	106.10
1	N	1523	G	C5'-C4'-O4'	5.10	115.22	109.10
1	N	1526	G	C4'-C3'-C2'	-5.10	97.50	102.60
1	N	257	G	C5-C6-N1	-5.10	108.95	111.50
1	N	845	A	N9-C4-C5	-5.10	103.76	105.80
1	N	1461	G	C1'-O4'-C4'	-5.10	105.82	109.90
1	N	63	C	C5-C6-N1	-5.10	118.45	121.00
1	N	76	G	OP1-P-OP2	-5.10	111.95	119.60
1	N	181	A	C6-C5-N7	-5.10	128.73	132.30
1	N	413	G	C2-N3-C4	5.10	114.45	111.90
1	N	1112	C	C2-N3-C4	-5.10	117.35	119.90
1	N	1193	G	N3-C2-N2	5.10	123.47	119.90
1	N	96	U	C2-N3-C4	5.10	130.06	127.00
1	N	100	G	C3'-C2'-C1'	5.10	105.58	101.50
1	N	110	C	P-O3'-C3'	5.10	125.82	119.70
1	N	153	C	C5-C4-N4	-5.10	116.63	120.20
1	N	338	A	C5-N7-C8	5.10	106.45	103.90
1	N	485	U	C2'-C3'-O3'	5.10	121.86	113.70
1	N	531	U	C5'-C4'-O4'	5.10	115.22	109.10
1	N	1457	G	C4-C5-N7	-5.10	108.76	110.80
1	N	1510	C	O3'-P-O5'	-5.10	94.31	104.00
1	N	186	C	C2-N3-C4	5.10	122.45	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1494	G	C6-N1-C2	5.10	128.16	125.10
1	N	51	A	C5'-C4'-O4'	-5.09	102.99	109.10
1	N	577	G	N3-C4-N9	-5.09	122.94	126.00
1	N	592	G	P-O3'-C3'	-5.09	113.59	119.70
1	N	1061	G	C4-C5-C6	5.09	121.86	118.80
1	N	1347	G	C3'-C2'-C1'	-5.09	97.42	101.50
1	N	1517	G	C6-N1-C2	-5.09	122.04	125.10
1	N	236	A	N1-C2-N3	5.09	131.85	129.30
1	N	534	U	O4'-C4'-C3'	-5.09	98.91	104.00
1	N	1044	A	OP2-P-O3'	5.09	116.41	105.20
1	N	1326	U	C3'-C2'-C1'	5.09	105.58	101.50
1	N	371	A	C8-N9-C4	-5.09	103.76	105.80
1	N	417	G	N1-C2-N3	-5.09	120.85	123.90
1	N	842	U	C6-N1-C1'	-5.09	114.07	121.20
1	N	910	C	C2-N1-C1'	5.09	124.40	118.80
1	N	1254	A	C5'-C4'-C3'	-5.09	107.85	116.00
1	N	1474	U	P-O5'-C5'	5.09	129.04	120.90
1	N	78	A	C5-C6-N1	-5.09	115.16	117.70
1	N	275	G	N3-C4-N9	-5.09	122.95	126.00
1	N	324	G	N7-C8-N9	5.09	115.64	113.10
1	N	415	A	C5-N7-C8	5.09	106.44	103.90
1	N	830	G	N3-C2-N2	5.09	123.46	119.90
1	N	1027	C	C5'-C4'-C3'	-5.09	107.86	116.00
1	N	1081	A	C4'-C3'-C2'	-5.09	97.51	102.60
1	N	191	G	N3-C4-C5	5.09	131.14	128.60
1	N	304	U	C2-N3-C4	-5.09	123.95	127.00
1	N	794	A	N9-C1'-C2'	-5.09	106.40	112.00
1	N	76	G	N3-C4-N9	5.09	129.05	126.00
1	N	123	U	N1-C2-O2	-5.09	119.24	122.80
1	N	388	G	P-O3'-C3'	5.09	125.80	119.70
1	N	746	A	P-O3'-C3'	-5.09	113.60	119.70
1	N	39	G	N3-C2-N2	5.08	123.46	119.90
1	N	465	A	N3-C4-C5	-5.08	123.24	126.80
1	N	663	A	C4-C5-C6	5.08	119.54	117.00
1	N	22	G	C1'-O4'-C4'	5.08	113.96	109.90
1	N	49	U	O5'-C5'-C4'	5.08	121.35	111.70
1	N	287	U	C5-C6-N1	5.08	125.24	122.70
1	N	417	G	N3-C4-C5	5.08	131.14	128.60
1	N	913	A	C6-N1-C2	5.08	121.65	118.60
1	N	1018	G	N1-C2-N3	-5.08	120.85	123.90
1	N	1092	A	C5'-C4'-C3'	5.08	124.13	116.00
1	N	1304	G	C4-C5-C6	5.08	121.85	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	1515	G	O4'-C1'-C2'	-5.08	100.72	105.80
1	N	1531	A	N1-C2-N3	5.08	131.84	129.30
1	N	320	A	N1-C2-N3	-5.08	126.76	129.30
1	N	386	C	N1-C2-N3	-5.08	115.64	119.20
1	N	654	G	N3-C4-N9	-5.08	122.95	126.00
1	N	1157	A	C8-N9-C4	5.08	107.83	105.80
1	N	471	U	O4'-C1'-N1	5.08	112.26	108.20
1	N	671	G	N3-C4-N9	-5.08	122.95	126.00
1	N	711	G	N9-C4-C5	5.08	107.43	105.40
1	N	1038	C	C4'-C3'-C2'	-5.08	97.52	102.60
1	N	1499	A	C5-N7-C8	5.08	106.44	103.90
1	N	14	U	C5'-C4'-O4'	5.08	115.19	109.10
1	N	356	A	C5-N7-C8	-5.08	101.36	103.90
1	N	416	G	C8-N9-C4	-5.08	104.37	106.40
1	N	576	C	N3-C2-O2	5.08	125.45	121.90
1	N	731	G	C4-N9-C1'	-5.08	119.90	126.50
1	N	1223	C	O4'-C1'-N1	5.08	112.26	108.20
1	N	80	A	C4-C5-C6	5.07	119.54	117.00
1	N	542	G	O4'-C1'-N9	5.07	112.26	108.20
1	N	547	A	O4'-C1'-N9	-5.07	104.14	108.20
1	N	847	G	N3-C2-N2	5.07	123.45	119.90
1	N	1048	G	C8-N9-C4	5.07	108.43	106.40
1	N	1141	C	C2-N1-C1'	5.07	124.38	118.80
1	N	1288	A	N3-C4-N9	-5.07	123.34	127.40
1	N	1424	U	C5-C4-O4	5.07	128.94	125.90
1	N	870	U	C5-C4-O4	5.07	128.94	125.90
1	N	888	G	C5-C6-N1	5.07	114.04	111.50
1	N	1066	C	N3-C4-N4	5.07	121.55	118.00
1	N	1138	G	C5-C6-N1	-5.07	108.96	111.50
1	N	181	A	C5-N7-C8	5.07	106.44	103.90
1	N	717	U	N1-C2-N3	-5.07	111.86	114.90
1	N	796	C	C2-N1-C1'	-5.07	113.22	118.80
1	N	907	A	N9-C4-C5	5.07	107.83	105.80
1	N	1020	G	C6-C5-N7	-5.07	127.36	130.40
1	N	1420	U	O4'-C1'-N1	5.07	112.26	108.20
1	N	135	C	O5'-P-OP2	-5.07	101.14	105.70
1	N	358	U	C6-N1-C1'	-5.07	114.10	121.20
1	N	861	G	N7-C8-N9	-5.07	110.57	113.10
1	N	1145	A	C8-N9-C4	-5.07	103.77	105.80
1	N	1164	G	N1-C6-O6	5.07	122.94	119.90
1	N	1351	U	N3-C4-C5	-5.07	111.56	114.60
1	N	1486	G	C2-N3-C4	5.07	114.43	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	53	A	C1'-O4'-C4'	-5.07	105.85	109.90
1	N	208	U	N1-C2-O2	5.07	126.35	122.80
1	N	298	A	C1'-O4'-C4'	5.07	113.95	109.90
1	N	325	A	C5-C6-N6	-5.07	119.65	123.70
1	N	442	G	O4'-C1'-N9	5.07	112.25	108.20
1	N	1050	G	C5-N7-C8	5.07	106.83	104.30
1	N	1111	A	N3-C4-C5	-5.07	123.25	126.80
1	N	1209	C	C6-N1-C2	5.07	122.33	120.30
1	N	1319	A	C6-C5-N7	-5.07	128.75	132.30
1	N	1346	A	N3-C4-C5	-5.07	123.25	126.80
1	N	156	C	C5'-C4'-C3'	5.06	124.10	116.00
1	N	741	G	C2-N3-C4	5.06	114.43	111.90
1	N	830	G	P-O5'-C5'	5.06	129.00	120.90
1	N	892	A	C5-C6-N6	-5.06	119.65	123.70
1	N	1475	G	C5-C6-N1	-5.06	108.97	111.50
1	N	537	G	N1-C6-O6	5.06	122.94	119.90
1	N	939	G	OP1-P-OP2	-5.06	112.01	119.60
1	N	1143	G	C4'-C3'-C2'	-5.06	97.54	102.60
1	N	1357	A	P-O3'-C3'	5.06	125.78	119.70
1	N	1501	C	C2-N1-C1'	-5.06	113.23	118.80
1	N	481	G	C5-N7-C8	-5.06	101.77	104.30
1	N	762	U	P-O5'-C5'	5.06	129.00	120.90
1	N	809	G	C5-C6-N1	-5.06	108.97	111.50
1	N	1048	G	C6-C5-N7	-5.06	127.36	130.40
1	N	1143	G	C5'-C4'-C3'	-5.06	107.90	116.00
1	N	1204	A	N1-C2-N3	-5.06	126.77	129.30
1	N	57	G	C5-N7-C8	-5.06	101.77	104.30
1	N	147	G	N1-C2-N3	-5.06	120.86	123.90
1	N	383	A	C6-C5-N7	-5.06	128.76	132.30
1	N	559	A	C6-C5-N7	5.06	135.84	132.30
1	N	646	G	C6-C5-N7	-5.06	127.36	130.40
1	N	923	A	C8-N9-C4	-5.06	103.78	105.80
1	N	1088	G	N3-C4-C5	5.06	131.13	128.60
1	N	143	A	C6-N1-C2	5.06	121.63	118.60
1	N	832	G	O4'-C1'-C2'	-5.06	100.74	105.80
1	N	893	C	C2'-C3'-O3'	5.06	121.79	113.70
1	N	1103	C	N3-C4-N4	5.06	121.54	118.00
1	N	1200	C	N3-C4-N4	5.06	121.54	118.00
1	N	1254	A	C5'-C4'-O4'	5.06	115.17	109.10
1	N	1453	G	C4-C5-C6	5.06	121.83	118.80
1	N	1496	C	O4'-C1'-C2'	-5.06	100.74	105.80
1	N	151	A	N3-C4-C5	-5.06	123.26	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	837	U	N1-C2-N3	-5.06	111.87	114.90
1	N	1323	G	C4-C5-N7	5.06	112.82	110.80
1	N	1371	G	P-O5'-C5'	-5.06	112.81	120.90
1	N	1392	G	P-O5'-C5'	5.06	128.99	120.90
1	N	69	G	O4'-C1'-N9	5.05	112.24	108.20
1	N	231	U	C6-N1-C2	-5.05	117.97	121.00
1	N	233	C	N3-C4-N4	5.05	121.54	118.00
1	N	852	G	N3-C4-C5	5.05	131.13	128.60
1	N	1019	A	C4'-C3'-C2'	-5.05	97.55	102.60
1	N	1249	C	P-O5'-C5'	-5.05	112.81	120.90
1	N	1499	A	C8-N9-C4	-5.05	103.78	105.80
1	N	1354	U	C6-N1-C2	5.05	124.03	121.00
1	N	700	G	N1-C2-N3	-5.05	120.87	123.90
1	N	730	G	C5'-C4'-O4'	5.05	115.16	109.10
1	N	976	G	O4'-C4'-C3'	-5.05	98.95	104.00
1	N	1054	C	N3-C4-C5	-5.05	119.88	121.90
1	N	1492	A	OP2-P-O3'	5.05	116.31	105.20
1	N	90	C	C2-N3-C4	-5.05	117.38	119.90
1	N	130	A	C6-C5-N7	-5.05	128.76	132.30
1	N	369	G	C1'-O4'-C4'	5.05	113.94	109.90
1	N	483	C	O4'-C1'-N1	5.05	112.24	108.20
1	N	505	G	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	529	G	C1'-O4'-C4'	-5.05	105.86	109.90
1	N	686	U	OP1-P-OP2	-5.05	112.03	119.60
1	N	754	C	N3-C4-C5	-5.05	119.88	121.90
1	N	817	C	O4'-C1'-C2'	-5.05	100.75	105.80
1	N	865	A	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	698	G	N1-C6-O6	5.05	122.93	119.90
1	N	1328	C	C1'-O4'-C4'	5.05	113.94	109.90
1	N	1421	G	N1-C6-O6	5.05	122.93	119.90
1	N	28	A	N9-C4-C5	5.05	107.82	105.80
1	N	179	A	C8-N9-C4	-5.05	103.78	105.80
1	N	243	A	C6-N1-C2	5.05	121.63	118.60
1	N	265	G	C5-N7-C8	5.05	106.82	104.30
1	N	321	A	N9-C4-C5	-5.05	103.78	105.80
1	N	335	C	C5-C6-N1	5.05	123.52	121.00
1	N	648	A	N9-C4-C5	-5.05	103.78	105.80
1	N	932	C	O4'-C1'-N1	5.05	112.24	108.20
1	N	986	U	C3'-C2'-C1'	-5.05	97.46	101.50
1	N	998	C	C1'-O4'-C4'	5.05	113.94	109.90
1	N	1348	U	C5'-C4'-O4'	-5.05	103.04	109.10
1	N	1494	G	C8-N9-C4	-5.05	104.38	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	74	A	C5-C6-N1	-5.04	115.18	117.70
1	N	777	A	C5-C6-N6	-5.04	119.66	123.70
1	N	1419	G	C4-C5-N7	5.04	112.82	110.80
1	N	51	A	C3'-C2'-C1'	5.04	105.53	101.50
1	N	455	G	C2-N3-C4	-5.04	109.38	111.90
1	N	623	C	C5-C4-N4	-5.04	116.67	120.20
1	N	748	G	C5'-C4'-C3'	-5.04	107.93	116.00
1	N	1087	G	N1-C6-O6	5.04	122.93	119.90
1	N	1245	C	C1'-O4'-C4'	-5.04	105.86	109.90
1	N	1449	C	O4'-C4'-C3'	-5.04	98.96	104.00
1	N	95	C	C2-N1-C1'	5.04	124.35	118.80
1	N	348	G	C5-C6-O6	-5.04	125.58	128.60
1	N	1421	G	C8-N9-C4	5.04	108.42	106.40
1	N	100	G	N3-C4-N9	5.04	129.02	126.00
1	N	293	G	C5-N7-C8	-5.04	101.78	104.30
1	N	294	U	O4'-C4'-C3'	-5.04	98.96	104.00
1	N	1429	A	C5'-C4'-C3'	5.04	124.06	116.00
1	N	160	A	P-O5'-C5'	5.04	128.96	120.90
1	N	532	A	C4-C5-N7	-5.04	108.18	110.70
1	N	1090	U	C4-C5-C6	-5.04	116.68	119.70
1	N	1495	U	O4'-C1'-N1	5.04	112.23	108.20
1	N	887	G	C5-N7-C8	5.04	106.82	104.30
1	N	21	G	C5-C6-N1	-5.04	108.98	111.50
1	N	78	A	C5-C6-N6	-5.04	119.67	123.70
1	N	248	C	P-O3'-C3'	-5.04	113.66	119.70
1	N	557	G	O4'-C1'-N9	5.04	112.23	108.20
1	N	677	U	C5-C6-N1	5.04	125.22	122.70
1	N	940	C	C2-N3-C4	5.04	122.42	119.90
1	N	405	U	C5-C4-O4	-5.03	122.88	125.90
1	N	885	G	O5'-P-OP1	5.03	116.74	110.70
1	N	1492	A	C5-C6-N1	-5.03	115.18	117.70
1	N	1527	U	C6-N1-C2	5.03	124.02	121.00
1	N	465	A	C5'-C4'-C3'	5.03	124.05	116.00
1	N	878	A	O4'-C1'-N9	5.03	112.23	108.20
1	N	914	A	N9-C4-C5	5.03	107.81	105.80
1	N	1345	U	OP1-P-O3'	5.03	116.27	105.20
1	N	161	A	N1-C2-N3	5.03	131.82	129.30
1	N	257	G	N7-C8-N9	5.03	115.61	113.10
1	N	675	A	C6-C5-N7	-5.03	128.78	132.30
1	N	796	C	P-O3'-C3'	-5.03	113.66	119.70
1	N	886	G	C6-C5-N7	-5.03	127.38	130.40
1	N	435	A	C6-C5-N7	-5.03	128.78	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	932	C	P-O3'-C3'	5.03	125.73	119.70
1	N	968	A	N3-C4-N9	-5.03	123.38	127.40
1	N	1081	A	C6-N1-C2	5.03	121.62	118.60
1	N	1111	A	C5-C6-N1	-5.03	115.19	117.70
1	N	1453	G	C5-C6-N1	-5.03	108.98	111.50
1	N	1512	U	P-O3'-C3'	5.03	125.73	119.70
1	N	4	U	N1-C2-O2	-5.03	119.28	122.80
1	N	147	G	OP2-P-O3'	5.03	116.26	105.20
1	N	166	U	C2-N3-C4	-5.03	123.98	127.00
1	N	313	A	C6-N1-C2	-5.03	115.58	118.60
1	N	422	C	N3-C4-N4	5.03	121.52	118.00
1	N	1044	A	C8-N9-C4	-5.03	103.79	105.80
1	N	1374	A	N7-C8-N9	5.03	116.31	113.80
1	N	1383	C	N3-C2-O2	5.03	125.42	121.90
1	N	1418	A	C4-C5-C6	5.03	119.51	117.00
1	N	1430	A	C2-N3-C4	5.03	113.11	110.60
1	N	12	U	C5-C4-O4	-5.03	122.89	125.90
1	N	596	A	P-O3'-C3'	5.03	125.73	119.70
1	N	597	G	O4'-C4'-C3'	-5.03	98.97	104.00
1	N	757	U	C2-N3-C4	-5.03	123.98	127.00
1	N	1080	A	N9-C4-C5	5.03	107.81	105.80
1	N	1128	C	C5'-C4'-O4'	5.03	115.13	109.10
1	N	1464	U	C5-C6-N1	5.03	125.21	122.70
1	N	442	G	N3-C4-C5	5.02	131.11	128.60
1	N	746	A	C5-N7-C8	-5.02	101.39	103.90
1	N	869	G	C1'-O4'-C4'	-5.02	105.88	109.90
1	N	1185	G	N3-C4-N9	-5.02	122.99	126.00
1	N	1206	G	C4'-C3'-C2'	-5.02	97.58	102.60
1	N	162	A	P-O3'-C3'	5.02	125.73	119.70
1	N	201	G	C8-N9-C4	5.02	108.41	106.40
1	N	213	G	N3-C4-N9	5.02	129.01	126.00
1	N	253	A	C6-C5-N7	-5.02	128.78	132.30
1	N	663	A	N3-C4-C5	-5.02	123.28	126.80
1	N	678	U	C1'-O4'-C4'	5.02	113.92	109.90
1	N	688	G	C4-C5-N7	5.02	112.81	110.80
1	N	708	C	C5'-C4'-O4'	5.02	115.13	109.10
1	N	933	G	C4-C5-C6	5.02	121.81	118.80
1	N	1415	G	C8-N9-C1'	-5.02	120.47	127.00
1	N	1437	A	O4'-C4'-C3'	-5.02	98.98	104.00
1	N	642	A	N9-C4-C5	5.02	107.81	105.80
1	N	929	G	N1-C2-N3	-5.02	120.89	123.90
1	N	10	A	C4-C5-C6	5.02	119.51	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	222	C	C6-N1-C2	5.02	122.31	120.30
1	N	397	A	O5'-P-OP1	-5.02	101.19	105.70
1	N	399	G	C2-N3-C4	5.02	114.41	111.90
1	N	460	A	C8-N9-C4	-5.02	103.79	105.80
1	N	1185	G	C4'-C3'-C2'	-5.02	97.58	102.60
1	N	1296	C	N3-C4-N4	5.02	121.51	118.00
1	N	1361	G	C2-N3-C4	-5.02	109.39	111.90
1	N	546	A	N9-C4-C5	5.02	107.81	105.80
1	N	989	U	C5'-C4'-C3'	-5.02	107.97	116.00
1	N	1132	C	C6-N1-C2	-5.02	118.29	120.30
1	N	361	G	C1'-O4'-C4'	5.01	113.91	109.90
1	N	486	U	C5'-C4'-C3'	-5.01	107.98	116.00
1	N	496	A	C5-N7-C8	-5.01	101.39	103.90
1	N	585	G	N1-C6-O6	5.01	122.91	119.90
1	N	676	A	C5-N7-C8	5.01	106.41	103.90
1	N	751	U	C5'-C4'-O4'	5.01	115.12	109.10
1	N	952	U	C4'-C3'-C2'	-5.01	97.58	102.60
1	N	1283	U	P-O3'-C3'	-5.01	113.68	119.70
1	N	50	A	C8-N9-C4	-5.01	103.80	105.80
1	N	819	A	C1'-O4'-C4'	-5.01	105.89	109.90
1	N	830	G	O4'-C4'-C3'	-5.01	98.99	104.00
1	N	987	G	N3-C2-N2	-5.01	116.39	119.90
1	N	219	U	N1-C2-O2	-5.01	119.29	122.80
1	N	281	G	C8-N9-C4	5.01	108.41	106.40
1	N	386	C	O3'-P-O5'	-5.01	94.48	104.00
1	N	399	G	C8-N9-C1'	5.01	133.51	127.00
1	N	488	C	C5'-C4'-C3'	5.01	124.02	116.00
1	N	558	G	C3'-C2'-C1'	5.01	105.51	101.50
1	N	929	G	C2-N3-C4	5.01	114.41	111.90
1	N	1362	A	C8-N9-C1'	-5.01	118.68	127.70
1	N	227	G	C5'-C4'-C3'	5.01	124.02	116.00
1	N	249	U	OP2-P-O3'	5.01	116.22	105.20
1	N	317	U	N3-C4-O4	5.01	122.91	119.40
1	N	601	G	N1-C2-N3	-5.01	120.89	123.90
1	N	940	C	C5'-C4'-O4'	5.01	115.11	109.10
1	N	1195	C	C4'-C3'-C2'	5.01	107.61	102.60
1	N	1398	A	C8-N9-C4	5.01	107.80	105.80
1	N	502	A	O5'-C5'-C4'	-5.01	102.18	111.70
1	N	680	C	O5'-C5'-C4'	-5.01	102.19	111.70
1	N	1034	G	O4'-C1'-N9	5.01	112.21	108.20
1	N	763	G	N1-C6-O6	5.01	122.90	119.90
1	N	839	C	C2-N1-C1'	5.01	124.31	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	862	C	C5'-C4'-O4'	5.01	115.11	109.10
1	N	908	A	C4-C5-C6	5.01	119.50	117.00
1	N	1089	G	N7-C8-N9	-5.01	110.60	113.10
1	N	1125	U	C4'-C3'-C2'	-5.01	97.59	102.60
1	N	1134	G	P-O3'-C3'	5.01	125.71	119.70
1	N	171	A	N9-C1'-C2'	5.00	120.51	114.00
1	N	406	G	C2-N3-C4	5.00	114.40	111.90
1	N	428	G	C4-C5-C6	5.00	121.80	118.80
1	N	1472	U	P-O3'-C3'	5.00	125.71	119.70
1	N	45	G	O4'-C1'-N9	5.00	112.20	108.20
1	N	465	A	C5'-C4'-O4'	-5.00	103.09	109.10
1	N	767	A	N3-C4-N9	-5.00	123.40	127.40
1	N	839	C	N3-C4-C5	-5.00	119.90	121.90
1	N	1057	G	N1-C6-O6	5.00	122.90	119.90
1	N	1110	A	N1-C2-N3	-5.00	126.80	129.30
1	N	1185	G	N1-C2-N2	-5.00	111.70	116.20
1	N	1322	C	C5-C6-N1	-5.00	118.50	121.00
1	N	1393	U	N3-C4-C5	-5.00	111.60	114.60
1	N	369	G	N7-C8-N9	5.00	115.60	113.10
1	N	503	C	OP1-P-OP2	-5.00	112.10	119.60
1	N	641	U	N3-C4-O4	5.00	122.90	119.40
1	N	754	C	C2-N1-C1'	5.00	124.30	118.80
1	N	952	U	C5-C6-N1	5.00	125.20	122.70
1	N	1063	C	C1'-O4'-C4'	-5.00	105.90	109.90
1	N	1154	G	N3-C4-N9	5.00	129.00	126.00
1	N	1386	G	C4-C5-C6	-5.00	115.80	118.80

There are no chirality outliers.

All (941) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	N	1000	A	Sidechain
1	N	1002	G	Sidechain
1	N	1004	A	Sidechain
1	N	1005	A	Sidechain
1	N	1006	G	Sidechain
1	N	1007	U	Sidechain
1	N	1008	U	Sidechain
1	N	1011	C	Sidechain
1	N	1013	G	Sidechain
1	N	1015	G	Sidechain
1	N	102	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1020	G	Sidechain
1	N	1023	U	Sidechain
1	N	1031	C	Sidechain
1	N	1033	G	Sidechain
1	N	1035	A	Sidechain
1	N	1039	G	Sidechain
1	N	104	G	Sidechain
1	N	1040	U	Sidechain
1	N	1041	G	Sidechain
1	N	1042	A	Sidechain
1	N	1043	G	Sidechain
1	N	1046	A	Sidechain
1	N	1048	G	Sidechain
1	N	1049	U	Sidechain
1	N	105	G	Sidechain
1	N	1051	C	Sidechain
1	N	1052	U	Sidechain
1	N	1053	G	Sidechain
1	N	1055	A	Sidechain
1	N	1057	G	Sidechain
1	N	1058	G	Sidechain
1	N	1059	C	Sidechain
1	N	1060	U	Sidechain
1	N	1066	C	Sidechain
1	N	1067	A	Sidechain
1	N	107	G	Sidechain
1	N	1070	U	Sidechain
1	N	1071	C	Sidechain
1	N	1072	G	Sidechain
1	N	1073	U	Sidechain
1	N	1074	G	Sidechain
1	N	1075	U	Sidechain
1	N	1076	U	Sidechain
1	N	1077	G	Sidechain
1	N	1079	G	Sidechain
1	N	1080	A	Sidechain
1	N	1083	U	Sidechain
1	N	1084	G	Sidechain
1	N	1085	U	Sidechain
1	N	1086	U	Sidechain
1	N	1088	G	Sidechain
1	N	109	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1090	U	Sidechain
1	N	1091	U	Sidechain
1	N	1093	A	Sidechain
1	N	1094	G	Sidechain
1	N	1095	U	Sidechain
1	N	1096	C	Sidechain
1	N	1097	C	Sidechain
1	N	1098	C	Sidechain
1	N	110	C	Sidechain
1	N	1102	A	Sidechain
1	N	1104	G	Sidechain
1	N	1105	A	Sidechain
1	N	1106	G	Sidechain
1	N	1108	G	Sidechain
1	N	1109	C	Sidechain
1	N	111	G	Sidechain
1	N	1110	A	Sidechain
1	N	1111	A	Sidechain
1	N	1113	C	Sidechain
1	N	1116	U	Sidechain
1	N	1117	A	Sidechain
1	N	1119	C	Sidechain
1	N	112	G	Sidechain
1	N	1120	C	Sidechain
1	N	1121	U	Sidechain
1	N	1125	U	Sidechain
1	N	1126	U	Sidechain
1	N	1127	G	Sidechain
1	N	1129	C	Sidechain
1	N	1130	A	Sidechain
1	N	1132	C	Sidechain
1	N	1134	G	Sidechain
1	N	1135	U	Sidechain
1	N	1138	G	Sidechain
1	N	1139	G	Sidechain
1	N	114	U	Sidechain
1	N	1140	C	Sidechain
1	N	1142	G	Sidechain
1	N	1143	G	Sidechain
1	N	1144	G	Sidechain
1	N	1148	U	Sidechain
1	N	1149	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1150	A	Sidechain
1	N	1153	G	Sidechain
1	N	1154	G	Sidechain
1	N	1155	A	Sidechain
1	N	1156	G	Sidechain
1	N	1158	C	Sidechain
1	N	1159	U	Sidechain
1	N	116	A	Sidechain
1	N	1160	G	Sidechain
1	N	1161	C	Sidechain
1	N	1165	U	Sidechain
1	N	1169	A	Sidechain
1	N	117	G	Sidechain
1	N	1170	A	Sidechain
1	N	1173	U	Sidechain
1	N	1174	G	Sidechain
1	N	1177	G	Sidechain
1	N	1179	A	Sidechain
1	N	1181	G	Sidechain
1	N	1184	G	Sidechain
1	N	1185	G	Sidechain
1	N	1189	U	Sidechain
1	N	119	A	Sidechain
1	N	1191	A	Sidechain
1	N	1193	G	Sidechain
1	N	1195	C	Sidechain
1	N	1197	A	Sidechain
1	N	1198	G	Sidechain
1	N	12	U	Sidechain
1	N	120	A	Sidechain
1	N	1200	C	Sidechain
1	N	1202	U	Sidechain
1	N	1203	C	Sidechain
1	N	1204	A	Sidechain
1	N	1205	U	Sidechain
1	N	1206	G	Sidechain
1	N	1207	G	Sidechain
1	N	1208	C	Sidechain
1	N	121	U	Sidechain
1	N	1211	U	Sidechain
1	N	1214	C	Sidechain
1	N	1215	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1218	C	Sidechain
1	N	122	G	Sidechain
1	N	1220	G	Sidechain
1	N	1221	G	Sidechain
1	N	1223	C	Sidechain
1	N	1226	C	Sidechain
1	N	1227	A	Sidechain
1	N	1229	A	Sidechain
1	N	123	U	Sidechain
1	N	1231	G	Sidechain
1	N	1232	U	Sidechain
1	N	1234	C	Sidechain
1	N	1235	U	Sidechain
1	N	1237	C	Sidechain
1	N	1239	A	Sidechain
1	N	124	C	Sidechain
1	N	1240	U	Sidechain
1	N	1241	G	Sidechain
1	N	1242	G	Sidechain
1	N	1243	C	Sidechain
1	N	1244	G	Sidechain
1	N	1245	C	Sidechain
1	N	1249	C	Sidechain
1	N	125	U	Sidechain
1	N	1251	A	Sidechain
1	N	1252	A	Sidechain
1	N	1254	A	Sidechain
1	N	1256	A	Sidechain
1	N	1258	G	Sidechain
1	N	1259	C	Sidechain
1	N	126	G	Sidechain
1	N	1260	G	Sidechain
1	N	1261	A	Sidechain
1	N	1262	C	Sidechain
1	N	1263	C	Sidechain
1	N	1264	U	Sidechain
1	N	1265	C	Sidechain
1	N	1266	G	Sidechain
1	N	1267	C	Sidechain
1	N	1268	G	Sidechain
1	N	1269	A	Sidechain
1	N	1270	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1271	A	Sidechain
1	N	1272	G	Sidechain
1	N	1274	A	Sidechain
1	N	1275	A	Sidechain
1	N	1276	G	Sidechain
1	N	1278	G	Sidechain
1	N	1282	C	Sidechain
1	N	1283	U	Sidechain
1	N	1286	U	Sidechain
1	N	1287	A	Sidechain
1	N	1288	A	Sidechain
1	N	1289	A	Sidechain
1	N	1291	U	Sidechain
1	N	1293	C	Sidechain
1	N	1294	G	Sidechain
1	N	1299	A	Sidechain
1	N	130	A	Sidechain
1	N	1300	G	Sidechain
1	N	1301	U	Sidechain
1	N	1302	C	Sidechain
1	N	1305	G	Sidechain
1	N	1306	A	Sidechain
1	N	1307	U	Sidechain
1	N	1309	G	Sidechain
1	N	1310	G	Sidechain
1	N	1311	A	Sidechain
1	N	1312	G	Sidechain
1	N	1314	C	Sidechain
1	N	1315	U	Sidechain
1	N	1316	G	Sidechain
1	N	1318	A	Sidechain
1	N	1319	A	Sidechain
1	N	1321	U	Sidechain
1	N	1322	C	Sidechain
1	N	1323	G	Sidechain
1	N	1326	U	Sidechain
1	N	1330	U	Sidechain
1	N	1331	G	Sidechain
1	N	1332	A	Sidechain
1	N	1334	G	Sidechain
1	N	1339	A	Sidechain
1	N	134	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1343	G	Sidechain
1	N	1344	C	Sidechain
1	N	1345	U	Sidechain
1	N	1347	G	Sidechain
1	N	1348	U	Sidechain
1	N	1350	A	Sidechain
1	N	1351	U	Sidechain
1	N	1353	G	Sidechain
1	N	1354	U	Sidechain
1	N	1355	G	Sidechain
1	N	1357	A	Sidechain
1	N	1358	U	Sidechain
1	N	1359	C	Sidechain
1	N	1361	G	Sidechain
1	N	1362	A	Sidechain
1	N	1363	A	Sidechain
1	N	1364	U	Sidechain
1	N	1365	G	Sidechain
1	N	1366	C	Sidechain
1	N	1367	C	Sidechain
1	N	137	U	Sidechain
1	N	1370	G	Sidechain
1	N	1371	G	Sidechain
1	N	1373	G	Sidechain
1	N	1374	A	Sidechain
1	N	1375	A	Sidechain
1	N	1376	U	Sidechain
1	N	1377	A	Sidechain
1	N	1378	C	Sidechain
1	N	1379	G	Sidechain
1	N	1380	U	Sidechain
1	N	1381	U	Sidechain
1	N	1383	C	Sidechain
1	N	1385	G	Sidechain
1	N	1386	G	Sidechain
1	N	1387	G	Sidechain
1	N	139	A	Sidechain
1	N	1392	G	Sidechain
1	N	1394	A	Sidechain
1	N	1395	C	Sidechain
1	N	1397	C	Sidechain
1	N	1399	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	14	U	Sidechain
1	N	140	U	Sidechain
1	N	1401	G	Sidechain
1	N	1402	C	Sidechain
1	N	1403	C	Sidechain
1	N	1404	C	Sidechain
1	N	1405	G	Sidechain
1	N	1406	U	Sidechain
1	N	1408	A	Sidechain
1	N	1409	C	Sidechain
1	N	141	G	Sidechain
1	N	1410	A	Sidechain
1	N	1411	C	Sidechain
1	N	1414	U	Sidechain
1	N	1415	G	Sidechain
1	N	1417	G	Sidechain
1	N	1419	G	Sidechain
1	N	142	G	Sidechain
1	N	1421	G	Sidechain
1	N	1422	G	Sidechain
1	N	1426	G	Sidechain
1	N	1427	C	Sidechain
1	N	1429	A	Sidechain
1	N	143	A	Sidechain
1	N	1431	A	Sidechain
1	N	1433	A	Sidechain
1	N	1434	A	Sidechain
1	N	1435	G	Sidechain
1	N	1437	A	Sidechain
1	N	1439	G	Sidechain
1	N	144	G	Sidechain
1	N	1440	U	Sidechain
1	N	1441	A	Sidechain
1	N	1442	G	Sidechain
1	N	1445	U	Sidechain
1	N	1448	C	Sidechain
1	N	1450	U	Sidechain
1	N	1451	U	Sidechain
1	N	1455	G	Sidechain
1	N	1459	G	Sidechain
1	N	1462	C	Sidechain
1	N	1467	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1468	A	Sidechain
1	N	1469	C	Sidechain
1	N	1472	U	Sidechain
1	N	1475	G	Sidechain
1	N	1478	U	Sidechain
1	N	148	G	Sidechain
1	N	1481	U	Sidechain
1	N	1483	A	Sidechain
1	N	1485	U	Sidechain
1	N	1488	G	Sidechain
1	N	1490	U	Sidechain
1	N	1492	A	Sidechain
1	N	1493	A	Sidechain
1	N	1494	G	Sidechain
1	N	1495	U	Sidechain
1	N	1496	C	Sidechain
1	N	1497	G	Sidechain
1	N	150	U	Sidechain
1	N	1500	A	Sidechain
1	N	1502	A	Sidechain
1	N	1503	A	Sidechain
1	N	1504	G	Sidechain
1	N	1505	G	Sidechain
1	N	1508	A	Sidechain
1	N	1509	C	Sidechain
1	N	1510	C	Sidechain
1	N	1511	G	Sidechain
1	N	1512	U	Sidechain
1	N	1514	G	Sidechain
1	N	1515	G	Sidechain
1	N	1516	G	Sidechain
1	N	1517	G	Sidechain
1	N	152	A	Sidechain
1	N	1521	C	Sidechain
1	N	1523	G	Sidechain
1	N	1524	C	Sidechain
1	N	1525	G	Sidechain
1	N	1526	G	Sidechain
1	N	1527	U	Sidechain
1	N	1529	G	Sidechain
1	N	1530	G	Sidechain
1	N	1532	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	1533	C	Sidechain
1	N	155	A	Sidechain
1	N	156	C	Sidechain
1	N	157	U	Sidechain
1	N	158	G	Sidechain
1	N	160	A	Sidechain
1	N	161	A	Sidechain
1	N	162	A	Sidechain
1	N	164	G	Sidechain
1	N	165	G	Sidechain
1	N	168	G	Sidechain
1	N	17	U	Sidechain
1	N	170	U	Sidechain
1	N	171	A	Sidechain
1	N	172	A	Sidechain
1	N	175	C	Sidechain
1	N	177	G	Sidechain
1	N	178	C	Sidechain
1	N	179	A	Sidechain
1	N	180	U	Sidechain
1	N	181	A	Sidechain
1	N	184	G	Sidechain
1	N	186	C	Sidechain
1	N	187	G	Sidechain
1	N	19	A	Sidechain
1	N	190	A	Sidechain
1	N	192	A	Sidechain
1	N	194	C	Sidechain
1	N	195	A	Sidechain
1	N	196	A	Sidechain
1	N	199	A	Sidechain
1	N	20	U	Sidechain
1	N	200	G	Sidechain
1	N	201	G	Sidechain
1	N	202	G	Sidechain
1	N	203	G	Sidechain
1	N	206	C	Sidechain
1	N	207	C	Sidechain
1	N	208	U	Sidechain
1	N	21	G	Sidechain
1	N	210	C	Sidechain
1	N	211	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	212	G	Sidechain
1	N	213	G	Sidechain
1	N	214	C	Sidechain
1	N	216	U	Sidechain
1	N	218	U	Sidechain
1	N	219	U	Sidechain
1	N	22	G	Sidechain
1	N	220	G	Sidechain
1	N	223	A	Sidechain
1	N	224	U	Sidechain
1	N	227	G	Sidechain
1	N	229	U	Sidechain
1	N	230	G	Sidechain
1	N	233	C	Sidechain
1	N	236	A	Sidechain
1	N	237	G	Sidechain
1	N	238	A	Sidechain
1	N	239	U	Sidechain
1	N	240	G	Sidechain
1	N	241	G	Sidechain
1	N	244	U	Sidechain
1	N	246	A	Sidechain
1	N	247	G	Sidechain
1	N	248	C	Sidechain
1	N	249	U	Sidechain
1	N	25	C	Sidechain
1	N	251	G	Sidechain
1	N	252	U	Sidechain
1	N	253	A	Sidechain
1	N	254	G	Sidechain
1	N	255	G	Sidechain
1	N	256	U	Sidechain
1	N	26	A	Sidechain
1	N	260	G	Sidechain
1	N	261	U	Sidechain
1	N	262	A	Sidechain
1	N	265	G	Sidechain
1	N	266	G	Sidechain
1	N	268	U	Sidechain
1	N	269	C	Sidechain
1	N	27	G	Sidechain
1	N	271	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	272	C	Sidechain
1	N	273	U	Sidechain
1	N	274	A	Sidechain
1	N	275	G	Sidechain
1	N	276	G	Sidechain
1	N	277	C	Sidechain
1	N	278	G	Sidechain
1	N	279	A	Sidechain
1	N	282	A	Sidechain
1	N	283	U	Sidechain
1	N	285	C	Sidechain
1	N	287	U	Sidechain
1	N	288	A	Sidechain
1	N	289	G	Sidechain
1	N	29	U	Sidechain
1	N	291	U	Sidechain
1	N	293	G	Sidechain
1	N	295	C	Sidechain
1	N	296	U	Sidechain
1	N	299	G	Sidechain
1	N	30	U	Sidechain
1	N	300	A	Sidechain
1	N	301	G	Sidechain
1	N	302	G	Sidechain
1	N	304	U	Sidechain
1	N	305	G	Sidechain
1	N	308	C	Sidechain
1	N	31	G	Sidechain
1	N	310	G	Sidechain
1	N	312	C	Sidechain
1	N	313	A	Sidechain
1	N	314	C	Sidechain
1	N	315	A	Sidechain
1	N	316	C	Sidechain
1	N	317	U	Sidechain
1	N	318	G	Sidechain
1	N	32	A	Sidechain
1	N	320	A	Sidechain
1	N	322	C	Sidechain
1	N	323	U	Sidechain
1	N	324	G	Sidechain
1	N	325	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	326	G	Sidechain
1	N	333	U	Sidechain
1	N	336	A	Sidechain
1	N	337	G	Sidechain
1	N	338	A	Sidechain
1	N	339	C	Sidechain
1	N	34	C	Sidechain
1	N	340	U	Sidechain
1	N	341	C	Sidechain
1	N	342	C	Sidechain
1	N	343	U	Sidechain
1	N	345	C	Sidechain
1	N	346	G	Sidechain
1	N	347	G	Sidechain
1	N	348	G	Sidechain
1	N	349	A	Sidechain
1	N	35	G	Sidechain
1	N	350	G	Sidechain
1	N	353	A	Sidechain
1	N	354	G	Sidechain
1	N	355	C	Sidechain
1	N	357	G	Sidechain
1	N	359	G	Sidechain
1	N	360	G	Sidechain
1	N	361	G	Sidechain
1	N	362	G	Sidechain
1	N	363	A	Sidechain
1	N	364	A	Sidechain
1	N	369	G	Sidechain
1	N	370	C	Sidechain
1	N	371	A	Sidechain
1	N	372	C	Sidechain
1	N	374	A	Sidechain
1	N	375	U	Sidechain
1	N	376	G	Sidechain
1	N	377	G	Sidechain
1	N	378	G	Sidechain
1	N	379	C	Sidechain
1	N	38	G	Sidechain
1	N	381	C	Sidechain
1	N	382	A	Sidechain
1	N	386	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	387	U	Sidechain
1	N	389	A	Sidechain
1	N	39	G	Sidechain
1	N	391	G	Sidechain
1	N	392	C	Sidechain
1	N	394	G	Sidechain
1	N	398	U	Sidechain
1	N	400	C	Sidechain
1	N	402	G	Sidechain
1	N	404	G	Sidechain
1	N	405	U	Sidechain
1	N	406	G	Sidechain
1	N	407	U	Sidechain
1	N	409	U	Sidechain
1	N	410	G	Sidechain
1	N	411	A	Sidechain
1	N	413	G	Sidechain
1	N	414	A	Sidechain
1	N	417	G	Sidechain
1	N	419	C	Sidechain
1	N	42	G	Sidechain
1	N	420	U	Sidechain
1	N	421	U	Sidechain
1	N	423	G	Sidechain
1	N	424	G	Sidechain
1	N	425	G	Sidechain
1	N	426	U	Sidechain
1	N	427	U	Sidechain
1	N	428	G	Sidechain
1	N	429	U	Sidechain
1	N	430	A	Sidechain
1	N	431	A	Sidechain
1	N	432	A	Sidechain
1	N	433	G	Sidechain
1	N	435	A	Sidechain
1	N	437	U	Sidechain
1	N	441	A	Sidechain
1	N	443	C	Sidechain
1	N	445	G	Sidechain
1	N	447	G	Sidechain
1	N	449	G	Sidechain
1	N	450	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	452	A	Sidechain
1	N	453	G	Sidechain
1	N	456	A	Sidechain
1	N	457	G	Sidechain
1	N	458	U	Sidechain
1	N	459	A	Sidechain
1	N	46	G	Sidechain
1	N	460	A	Sidechain
1	N	461	A	Sidechain
1	N	462	G	Sidechain
1	N	463	U	Sidechain
1	N	465	A	Sidechain
1	N	468	A	Sidechain
1	N	469	C	Sidechain
1	N	470	C	Sidechain
1	N	472	U	Sidechain
1	N	473	U	Sidechain
1	N	474	G	Sidechain
1	N	475	C	Sidechain
1	N	477	C	Sidechain
1	N	479	U	Sidechain
1	N	48	C	Sidechain
1	N	480	U	Sidechain
1	N	481	G	Sidechain
1	N	482	A	Sidechain
1	N	483	C	Sidechain
1	N	485	U	Sidechain
1	N	486	U	Sidechain
1	N	488	C	Sidechain
1	N	490	C	Sidechain
1	N	491	G	Sidechain
1	N	494	G	Sidechain
1	N	497	G	Sidechain
1	N	498	A	Sidechain
1	N	499	A	Sidechain
1	N	5	U	Sidechain
1	N	50	A	Sidechain
1	N	501	C	Sidechain
1	N	502	A	Sidechain
1	N	503	C	Sidechain
1	N	504	C	Sidechain
1	N	506	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	508	U	Sidechain
1	N	51	A	Sidechain
1	N	510	A	Sidechain
1	N	514	C	Sidechain
1	N	515	G	Sidechain
1	N	516	U	Sidechain
1	N	517	G	Sidechain
1	N	519	C	Sidechain
1	N	52	C	Sidechain
1	N	524	G	Sidechain
1	N	525	C	Sidechain
1	N	526	C	Sidechain
1	N	527	G	Sidechain
1	N	529	G	Sidechain
1	N	53	A	Sidechain
1	N	530	G	Sidechain
1	N	531	U	Sidechain
1	N	532	A	Sidechain
1	N	534	U	Sidechain
1	N	536	C	Sidechain
1	N	538	G	Sidechain
1	N	539	A	Sidechain
1	N	541	G	Sidechain
1	N	542	G	Sidechain
1	N	544	G	Sidechain
1	N	547	A	Sidechain
1	N	548	G	Sidechain
1	N	550	G	Sidechain
1	N	556	C	Sidechain
1	N	558	G	Sidechain
1	N	559	A	Sidechain
1	N	56	U	Sidechain
1	N	561	U	Sidechain
1	N	562	U	Sidechain
1	N	563	A	Sidechain
1	N	565	U	Sidechain
1	N	566	G	Sidechain
1	N	570	G	Sidechain
1	N	571	U	Sidechain
1	N	572	A	Sidechain
1	N	573	A	Sidechain
1	N	575	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	578	C	Sidechain
1	N	579	A	Sidechain
1	N	58	C	Sidechain
1	N	581	G	Sidechain
1	N	582	C	Sidechain
1	N	583	A	Sidechain
1	N	584	G	Sidechain
1	N	586	C	Sidechain
1	N	587	G	Sidechain
1	N	590	U	Sidechain
1	N	594	U	Sidechain
1	N	595	A	Sidechain
1	N	598	U	Sidechain
1	N	599	C	Sidechain
1	N	6	G	Sidechain
1	N	601	G	Sidechain
1	N	602	A	Sidechain
1	N	604	G	Sidechain
1	N	605	U	Sidechain
1	N	606	G	Sidechain
1	N	609	A	Sidechain
1	N	61	G	Sidechain
1	N	611	C	Sidechain
1	N	613	C	Sidechain
1	N	614	C	Sidechain
1	N	615	G	Sidechain
1	N	616	G	Sidechain
1	N	617	G	Sidechain
1	N	618	C	Sidechain
1	N	619	U	Sidechain
1	N	62	U	Sidechain
1	N	620	C	Sidechain
1	N	621	A	Sidechain
1	N	626	G	Sidechain
1	N	627	G	Sidechain
1	N	628	G	Sidechain
1	N	629	A	Sidechain
1	N	63	C	Sidechain
1	N	630	A	Sidechain
1	N	634	C	Sidechain
1	N	636	U	Sidechain
1	N	64	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	640	A	Sidechain
1	N	645	G	Sidechain
1	N	646	G	Sidechain
1	N	648	A	Sidechain
1	N	65	A	Sidechain
1	N	651	C	Sidechain
1	N	652	U	Sidechain
1	N	654	G	Sidechain
1	N	655	A	Sidechain
1	N	656	G	Sidechain
1	N	657	U	Sidechain
1	N	658	C	Sidechain
1	N	66	A	Sidechain
1	N	660	C	Sidechain
1	N	664	G	Sidechain
1	N	665	A	Sidechain
1	N	666	G	Sidechain
1	N	667	G	Sidechain
1	N	668	G	Sidechain
1	N	669	G	Sidechain
1	N	670	G	Sidechain
1	N	671	G	Sidechain
1	N	673	A	Sidechain
1	N	674	G	Sidechain
1	N	676	A	Sidechain
1	N	678	U	Sidechain
1	N	68	G	Sidechain
1	N	680	C	Sidechain
1	N	682	G	Sidechain
1	N	683	G	Sidechain
1	N	684	U	Sidechain
1	N	685	G	Sidechain
1	N	687	A	Sidechain
1	N	688	G	Sidechain
1	N	69	G	Sidechain
1	N	693	G	Sidechain
1	N	695	A	Sidechain
1	N	698	G	Sidechain
1	N	7	A	Sidechain
1	N	700	G	Sidechain
1	N	701	U	Sidechain
1	N	702	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	703	G	Sidechain
1	N	704	A	Sidechain
1	N	705	G	Sidechain
1	N	708	C	Sidechain
1	N	709	U	Sidechain
1	N	71	A	Sidechain
1	N	710	G	Sidechain
1	N	711	G	Sidechain
1	N	713	G	Sidechain
1	N	714	G	Sidechain
1	N	716	A	Sidechain
1	N	717	U	Sidechain
1	N	719	C	Sidechain
1	N	72	A	Sidechain
1	N	721	G	Sidechain
1	N	722	G	Sidechain
1	N	723	U	Sidechain
1	N	724	G	Sidechain
1	N	725	G	Sidechain
1	N	726	C	Sidechain
1	N	728	A	Sidechain
1	N	729	A	Sidechain
1	N	73	C	Sidechain
1	N	730	G	Sidechain
1	N	731	G	Sidechain
1	N	733	G	Sidechain
1	N	735	C	Sidechain
1	N	736	C	Sidechain
1	N	737	C	Sidechain
1	N	738	C	Sidechain
1	N	739	C	Sidechain
1	N	74	A	Sidechain
1	N	740	U	Sidechain
1	N	741	G	Sidechain
1	N	745	G	Sidechain
1	N	748	G	Sidechain
1	N	749	A	Sidechain
1	N	75	G	Sidechain
1	N	750	C	Sidechain
1	N	753	A	Sidechain
1	N	755	G	Sidechain
1	N	757	U	Sidechain

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Mol	Chain	Res	Type	Group
1	N	760	G	Sidechain
1	N	762	U	Sidechain
1	N	763	G	Sidechain
1	N	765	G	Sidechain
1	N	767	A	Sidechain
1	N	768	A	Sidechain
1	N	769	G	Sidechain
1	N	77	A	Sidechain
1	N	771	G	Sidechain
1	N	772	U	Sidechain
1	N	773	G	Sidechain
1	N	774	G	Sidechain
1	N	775	G	Sidechain
1	N	776	G	Sidechain
1	N	777	A	Sidechain
1	N	779	C	Sidechain
1	N	78	A	Sidechain
1	N	780	A	Sidechain
1	N	782	A	Sidechain
1	N	783	C	Sidechain
1	N	784	A	Sidechain
1	N	785	G	Sidechain
1	N	786	G	Sidechain
1	N	788	U	Sidechain
1	N	79	G	Sidechain
1	N	790	A	Sidechain
1	N	791	G	Sidechain
1	N	792	A	Sidechain
1	N	794	A	Sidechain
1	N	795	C	Sidechain
1	N	796	C	Sidechain
1	N	799	G	Sidechain
1	N	8	A	Sidechain
1	N	80	A	Sidechain
1	N	801	U	Sidechain
1	N	802	A	Sidechain
1	N	803	G	Sidechain
1	N	804	U	Sidechain
1	N	805	C	Sidechain
1	N	807	A	Sidechain
1	N	808	C	Sidechain
1	N	809	G	Sidechain

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Mol	Chain	Res	Type	Group
1	N	81	A	Sidechain
1	N	810	C	Sidechain
1	N	811	C	Sidechain
1	N	812	G	Sidechain
1	N	814	A	Sidechain
1	N	818	G	Sidechain
1	N	82	G	Sidechain
1	N	820	U	Sidechain
1	N	821	G	Sidechain
1	N	822	U	Sidechain
1	N	824	G	Sidechain
1	N	828	U	Sidechain
1	N	829	G	Sidechain
1	N	83	C	Sidechain
1	N	830	G	Sidechain
1	N	832	G	Sidechain
1	N	833	G	Sidechain
1	N	834	U	Sidechain
1	N	835	U	Sidechain
1	N	837	U	Sidechain
1	N	84	U	Sidechain
1	N	840	C	Sidechain
1	N	841	C	Sidechain
1	N	842	U	Sidechain
1	N	845	A	Sidechain
1	N	846	G	Sidechain
1	N	849	G	Sidechain
1	N	85	U	Sidechain
1	N	851	G	Sidechain
1	N	852	G	Sidechain
1	N	853	C	Sidechain
1	N	854	U	Sidechain
1	N	855	U	Sidechain
1	N	857	C	Sidechain
1	N	858	G	Sidechain
1	N	859	G	Sidechain
1	N	86	G	Sidechain
1	N	860	A	Sidechain
1	N	861	G	Sidechain
1	N	862	C	Sidechain
1	N	864	A	Sidechain
1	N	865	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	866	C	Sidechain
1	N	867	G	Sidechain
1	N	868	C	Sidechain
1	N	869	G	Sidechain
1	N	87	C	Sidechain
1	N	870	U	Sidechain
1	N	871	U	Sidechain
1	N	873	A	Sidechain
1	N	874	G	Sidechain
1	N	875	U	Sidechain
1	N	877	G	Sidechain
1	N	879	C	Sidechain
1	N	881	G	Sidechain
1	N	884	U	Sidechain
1	N	886	G	Sidechain
1	N	887	G	Sidechain
1	N	888	G	Sidechain
1	N	891	U	Sidechain
1	N	892	A	Sidechain
1	N	894	G	Sidechain
1	N	895	G	Sidechain
1	N	896	C	Sidechain
1	N	899	C	Sidechain
1	N	9	G	Sidechain
1	N	900	A	Sidechain
1	N	901	A	Sidechain
1	N	902	G	Sidechain
1	N	904	U	Sidechain
1	N	905	U	Sidechain
1	N	908	A	Sidechain
1	N	91	U	Sidechain
1	N	911	U	Sidechain
1	N	913	A	Sidechain
1	N	914	A	Sidechain
1	N	915	A	Sidechain
1	N	916	U	Sidechain
1	N	917	G	Sidechain
1	N	918	A	Sidechain
1	N	919	A	Sidechain
1	N	92	U	Sidechain
1	N	920	U	Sidechain
1	N	923	A	Sidechain

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Mol	Chain	Res	Type	Group
1	N	925	G	Sidechain
1	N	928	G	Sidechain
1	N	929	G	Sidechain
1	N	93	U	Sidechain
1	N	933	G	Sidechain
1	N	934	C	Sidechain
1	N	937	A	Sidechain
1	N	938	A	Sidechain
1	N	939	G	Sidechain
1	N	94	G	Sidechain
1	N	940	C	Sidechain
1	N	941	G	Sidechain
1	N	943	U	Sidechain
1	N	944	G	Sidechain
1	N	946	A	Sidechain
1	N	947	G	Sidechain
1	N	948	C	Sidechain
1	N	949	A	Sidechain
1	N	951	G	Sidechain
1	N	953	G	Sidechain
1	N	954	G	Sidechain
1	N	958	A	Sidechain
1	N	959	A	Sidechain
1	N	960	U	Sidechain
1	N	961	U	Sidechain
1	N	962	C	Sidechain
1	N	965	U	Sidechain
1	N	969	A	Sidechain
1	N	97	G	Sidechain
1	N	970	C	Sidechain
1	N	973	G	Sidechain
1	N	974	A	Sidechain
1	N	976	G	Sidechain
1	N	977	A	Sidechain
1	N	978	A	Sidechain
1	N	981	U	Sidechain
1	N	982	U	Sidechain
1	N	983	A	Sidechain
1	N	985	C	Sidechain
1	N	987	G	Sidechain
1	N	988	G	Sidechain
1	N	990	C	Sidechain

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Mol	Chain	Res	Type	Group
1	N	991	U	Sidechain
1	N	992	U	Sidechain
1	N	994	A	Sidechain
1	N	995	C	Sidechain
1	N	996	A	Sidechain
1	N	997	U	Sidechain

## 5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	32892	16554	16526	428	0
All	All	32892	16554	16526	428	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

All (428) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:203:G:H22	1:N:206:C:H41	1.34	0.73
1:N:594:U:C4	1:N:595:A:C6	2.77	0.73
1:N:67:C:H2'	1:N:68:G:C8	2.25	0.72
1:N:664:G:H22	1:N:741:G:H1	1.39	0.70
1:N:780:A:C2	1:N:801:U:C5	2.80	0.70
1:N:94:G:H4'	1:N:95:C:H5''	1.73	0.69
1:N:169:C:C4	1:N:170:U:C4	2.82	0.68
1:N:50:A:H1'	1:N:52:C:C6	2.29	0.68
1:N:65:A:H2'	1:N:381:C:C4	2.30	0.67
1:N:858:G:H1	1:N:869:G:H2'	1.61	0.66
1:N:596:A:H61	1:N:644:U:H3	1.44	0.64
1:N:1011:C:C2	1:N:1019:A:C2	2.86	0.63
1:N:581:G:C5	1:N:758:C:C5	2.87	0.63
1:N:795:C:C5	1:N:796:C:C4	2.86	0.63
1:N:80:A:C4	1:N:81:A:H1'	2.33	0.63
1:N:272:C:C4	1:N:273:U:C4	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:668:G:C6	1:N:669:G:C6	2.87	0.63
1:N:171:A:C5	1:N:172:A:C6	2.87	0.62
1:N:840:C:H1'	1:N:843:U:H3	1.64	0.62
1:N:79:G:H2'	1:N:80:A:C8	2.35	0.61
1:N:1255:G:H2'	1:N:1279:G:H1	1.66	0.61
1:N:934:C:C2	1:N:1344:C:C4	2.89	0.61
1:N:283:U:C5	1:N:284:C:C5	2.88	0.61
1:N:338:A:H61	1:N:351:G:H1	1.48	0.60
1:N:947:G:H1'	1:N:1332:A:H62	1.65	0.60
1:N:998:C:H42	1:N:1042:A:H61	1.47	0.60
1:N:372:C:H4'	1:N:373:A:OP1	2.00	0.60
1:N:141:G:H21	1:N:182:A:H61	1.49	0.60
1:N:32:A:H4'	1:N:48:C:H42	1.67	0.59
1:N:673:A:H61	1:N:717:U:H3	1.51	0.58
1:N:803:G:C5	1:N:804:U:C5	2.91	0.58
1:N:755:G:C6	1:N:756:C:C4	2.91	0.58
1:N:1090:U:H2'	1:N:1091:U:C6	2.38	0.58
1:N:1423:G:C6	1:N:1424:U:C4	2.92	0.58
1:N:19:A:C2	1:N:917:G:C5	2.92	0.58
1:N:69:G:H2'	1:N:70:U:C6	2.39	0.58
1:N:1266:G:H21	1:N:1269:A:H8	1.45	0.57
1:N:120:A:C2	1:N:122:G:C6	2.92	0.57
1:N:669:G:C6	1:N:670:G:C6	2.92	0.57
1:N:655:A:C6	1:N:656:G:C5	2.92	0.57
1:N:1301:U:H2'	1:N:1303:C:C5	2.40	0.57
1:N:352:C:H1'	1:N:355:C:H41	1.70	0.57
1:N:668:G:C5	1:N:669:G:C5	2.93	0.57
1:N:859:G:C6	1:N:860:A:C6	2.93	0.57
1:N:1004:A:H5'	1:N:1024:G:H22	1.70	0.57
1:N:1142:G:C2	1:N:1143:G:H1'	2.40	0.57
1:N:1225:A:H2'	1:N:1226:C:C6	2.40	0.57
1:N:171:A:H2'	1:N:172:A:C8	2.39	0.56
1:N:718:A:H3'	1:N:719:C:C6	2.40	0.56
1:N:78:A:C6	1:N:79:G:C6	2.93	0.56
1:N:198:G:C6	1:N:220:G:C4	2.94	0.56
1:N:1055:A:C6	1:N:1206:G:C5	2.94	0.56
1:N:1385:G:C6	1:N:1386:G:C6	2.92	0.56
1:N:507:C:H3'	1:N:508:U:H5''	1.88	0.56
1:N:1500:A:C6	1:N:1501:C:C5	2.94	0.56
1:N:1023:U:H2'	1:N:1024:G:C8	2.41	0.56
1:N:949:A:H61	1:N:1232:U:H3	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1240:U:C6	1:N:1241:G:H5'	2.41	0.56
1:N:1038:C:H2'	1:N:1039:G:C8	2.41	0.55
1:N:749:A:C2	1:N:750:C:C2	2.95	0.55
1:N:1316:G:C2	1:N:1319:A:C8	2.94	0.55
1:N:985:C:C4	1:N:986:U:C4	2.95	0.55
1:N:904:U:C4	1:N:905:U:C4	2.94	0.55
1:N:301:G:C4	1:N:302:G:C8	2.95	0.55
1:N:73:C:H5''	1:N:73:C:C6	2.42	0.55
1:N:1483:A:C8	1:N:1484:C:C6	2.95	0.54
1:N:946:A:H2'	1:N:947:G:C8	2.42	0.54
1:N:1072:G:C2	1:N:1104:G:C2	2.96	0.54
1:N:1177:G:C6	1:N:1178:G:C2	2.96	0.54
1:N:1240:U:C2	1:N:1240:U:OP1	2.61	0.54
1:N:1272:G:C6	1:N:1273:C:C5	2.95	0.54
1:N:273:U:C4	1:N:274:A:C6	2.96	0.54
1:N:1239:A:H4'	1:N:1240:U:OP1	2.07	0.54
1:N:307:C:C5	1:N:308:C:C5	2.95	0.54
1:N:1071:C:H2'	1:N:1072:G:C8	2.43	0.53
1:N:1075:U:C4	1:N:1076:U:C4	2.96	0.53
1:N:384:G:C6	1:N:385:C:C4	2.97	0.53
1:N:665:A:C8	1:N:733:G:C2	2.97	0.53
1:N:197:A:H2	1:N:198:G:C4	2.26	0.53
1:N:17:U:H2'	1:N:18:C:C6	2.44	0.53
1:N:339:C:C4	1:N:340:U:C4	2.97	0.52
1:N:425:G:C6	1:N:426:U:N3	2.77	0.52
1:N:474:G:C5	1:N:475:C:C4	2.98	0.52
1:N:1511:G:C6	1:N:1525:G:C6	2.97	0.52
1:N:184:G:C8	1:N:224:U:H4'	2.44	0.52
1:N:342:C:C4	1:N:343:U:C4	2.98	0.52
1:N:1218:C:H2'	1:N:1219:A:C8	2.45	0.52
1:N:232:G:C6	1:N:233:C:C4	2.97	0.52
1:N:581:G:C6	1:N:758:C:C5	2.98	0.52
1:N:1225:A:H2'	1:N:1226:C:C5	2.45	0.52
1:N:595:A:H4'	1:N:596:A:H5'	1.92	0.52
1:N:581:G:C6	1:N:758:C:C6	2.97	0.52
1:N:349:A:H2'	1:N:350:G:C8	2.45	0.52
1:N:1258:G:H2'	1:N:1259:C:C6	2.45	0.51
1:N:1419:G:C6	1:N:1420:U:C5	2.98	0.51
1:N:50:A:C2	1:N:52:C:N3	2.78	0.51
1:N:946:A:C2	1:N:1236:A:C2	2.98	0.51
1:N:1305:G:H22	1:N:1331:G:H2'	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:782:A:C6	1:N:783:C:C2	2.99	0.51
1:N:109:A:C5	1:N:326:G:C5	2.98	0.51
1:N:1433:A:C1'	1:N:1468:A:C2	2.93	0.51
1:N:62:U:H4'	1:N:384:G:H21	1.76	0.51
1:N:139:A:C6	1:N:140:U:C4	2.98	0.51
1:N:381:C:C5	1:N:382:A:C5	2.97	0.51
1:N:438:U:C5	1:N:494:G:C8	2.98	0.51
1:N:506:G:C5	1:N:507:C:C4	2.98	0.51
1:N:512:U:H5''	1:N:512:U:H6	1.75	0.51
1:N:723:U:H3	1:N:832:G:N2	2.08	0.51
1:N:811:C:H2'	1:N:812:G:H5'	1.92	0.51
1:N:582:C:N3	1:N:760:G:C6	2.79	0.51
1:N:771:G:C6	1:N:772:U:N3	2.78	0.51
1:N:1239:A:C5	1:N:1241:G:C2	2.98	0.51
1:N:840:C:C1'	1:N:843:U:H3	2.23	0.51
1:N:1170:A:C5	1:N:1171:A:C4	2.98	0.51
1:N:1343:G:C5	1:N:1344:C:C4	2.99	0.51
1:N:1415:G:C2	1:N:1416:G:C5	2.99	0.51
1:N:1483:A:C8	1:N:1484:C:C5	2.99	0.51
1:N:496:A:C2	1:N:497:G:C5	2.99	0.51
1:N:171:A:C6	1:N:172:A:C6	2.99	0.51
1:N:856:C:OP2	1:N:871:U:C6	2.64	0.51
1:N:1102:A:C2	1:N:1103:C:C2	2.99	0.51
1:N:932:C:H2'	1:N:933:G:C8	2.46	0.51
1:N:978:A:C8	1:N:979:C:C5	2.99	0.51
1:N:1123:U:H3	1:N:1150:A:H61	1.59	0.50
1:N:1282:C:H2'	1:N:1283:U:C6	2.47	0.50
1:N:677:U:C4	1:N:678:U:C4	3.00	0.50
1:N:1006:G:N2	1:N:1024:G:H1'	2.26	0.50
1:N:1241:G:C8	1:N:1241:G:O5'	2.64	0.50
1:N:116:A:H61	1:N:313:A:H1'	1.77	0.50
1:N:701:U:H5''	1:N:703:G:H5'	1.93	0.50
1:N:738:C:C4	1:N:739:C:C4	3.00	0.50
1:N:482:A:C6	1:N:483:C:C2	2.99	0.50
1:N:1255:G:H3'	1:N:1279:G:H22	1.77	0.50
1:N:1391:U:H2'	1:N:1392:G:C8	2.47	0.50
1:N:344:A:H4'	1:N:345:C:OP2	2.11	0.50
1:N:424:G:C6	1:N:425:G:C6	2.99	0.50
1:N:1530:G:C4	1:N:1531:A:C2	2.99	0.50
1:N:1104:G:C6	1:N:1105:A:C6	3.00	0.50
1:N:1213:A:H2'	1:N:1215:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1357:A:C4	1:N:1358:U:C2	2.99	0.50
1:N:102:G:C6	1:N:103:U:C4	3.00	0.49
1:N:209:U:C4	1:N:211:G:N1	2.80	0.49
1:N:218:U:C4	1:N:219:U:N3	2.80	0.49
1:N:39:G:C2	1:N:498:A:H2	2.30	0.49
1:N:216:U:H4'	1:N:464:U:H4'	1.94	0.49
1:N:413:G:H4'	1:N:428:G:N2	2.27	0.49
1:N:478:A:C6	1:N:479:U:C5	3.00	0.49
1:N:64:G:N2	1:N:69:G:C5	2.80	0.49
1:N:1315:U:C4	1:N:1316:G:C6	3.00	0.49
1:N:955:U:H3	1:N:1225:A:H2	1.55	0.49
1:N:1523:G:C6	1:N:1524:C:C4	3.00	0.49
1:N:1433:A:C6	1:N:1434:A:C6	3.00	0.49
1:N:381:C:C5	1:N:382:A:C6	3.00	0.49
1:N:232:G:C5	1:N:233:C:C5	3.01	0.49
1:N:354:G:C6	1:N:355:C:C4	3.00	0.49
1:N:207:C:H2'	1:N:208:U:C5	2.48	0.49
1:N:297:G:C2	1:N:301:G:C6	3.01	0.48
1:N:803:G:C4	1:N:804:U:C6	3.01	0.48
1:N:1357:A:C5	1:N:1358:U:N3	2.81	0.48
1:N:542:G:C6	1:N:543:U:C4	3.01	0.48
1:N:524:G:C2	1:N:525:C:C2	3.00	0.48
1:N:1287:A:H2'	1:N:1288:A:C8	2.48	0.48
1:N:584:G:C6	1:N:585:G:C6	3.02	0.48
1:N:604:G:C6	1:N:605:U:N3	2.81	0.48
1:N:141:G:C6	1:N:223:A:C6	3.01	0.48
1:N:291:U:H3	1:N:309:A:H61	1.61	0.48
1:N:595:A:C2	1:N:596:A:N6	2.81	0.48
1:N:596:A:N6	1:N:644:U:H3	2.11	0.48
1:N:68:G:C4	1:N:69:G:H1'	2.48	0.48
1:N:976:G:H1	1:N:1362:A:H3'	1.78	0.48
1:N:474:G:C6	1:N:475:C:N3	2.81	0.48
1:N:503:C:O2	1:N:510:A:C2	2.66	0.48
1:N:62:U:N3	1:N:63:C:C4	2.82	0.48
1:N:1032:G:C2	1:N:1033:G:C8	3.01	0.48
1:N:1072:G:C2	1:N:1073:U:C2	3.01	0.48
1:N:635:A:C2	1:N:636:U:C2	3.01	0.48
1:N:19:A:C2	1:N:917:G:C6	3.01	0.48
1:N:208:U:C2	1:N:209:U:C5	3.02	0.48
1:N:772:U:H3'	1:N:772:U:C6	2.49	0.48
1:N:1148:U:N3	1:N:1149:C:C2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1083:U:C5	1:N:1084:G:C6	3.02	0.47
1:N:1116:U:N3	1:N:1185:G:C6	2.82	0.47
1:N:1266:G:N2	1:N:1269:A:H8	2.10	0.47
1:N:872:A:C5	1:N:874:G:C8	3.02	0.47
1:N:1266:G:N2	1:N:1269:A:C8	2.74	0.47
1:N:207:C:H2'	1:N:208:U:C2	2.50	0.47
1:N:384:G:C2	1:N:385:C:C2	3.03	0.47
1:N:780:A:H2'	1:N:800:G:N1	2.29	0.47
1:N:94:G:H4'	1:N:95:C:C5'	2.42	0.47
1:N:171:A:C6	1:N:172:A:N1	2.82	0.47
1:N:978:A:C4	1:N:1319:A:C2	3.03	0.47
1:N:172:A:C8	1:N:174:A:C8	3.01	0.47
1:N:1365:G:C6	1:N:1366:C:C4	3.02	0.47
1:N:1066:C:H3'	1:N:1067:A:C8	2.49	0.47
1:N:301:G:C2	1:N:302:G:C4	3.02	0.47
1:N:582:C:C2	1:N:760:G:C6	3.02	0.47
1:N:958:A:C2	1:N:959:A:C2	3.03	0.47
1:N:669:G:H2'	1:N:670:G:O4'	2.15	0.47
1:N:1256:A:C2	1:N:1258:G:C6	3.03	0.47
1:N:557:G:N1	1:N:558:G:C2	2.83	0.47
1:N:558:G:H2'	1:N:559:A:C2	2.50	0.47
1:N:838:G:C6	1:N:849:G:C5	3.02	0.47
1:N:1255:G:C6	1:N:1279:G:C5	3.03	0.46
1:N:1380:U:H5'	1:N:1381:U:OP1	2.15	0.46
1:N:296:U:H2'	1:N:297:G:C8	2.51	0.46
1:N:495:A:H1'	1:N:496:A:C5	2.49	0.46
1:N:402:G:H1'	1:N:620:C:H42	1.79	0.46
1:N:651:C:C4	1:N:652:U:C4	3.03	0.46
1:N:760:G:C6	1:N:761:G:C4	3.03	0.46
1:N:410:G:H2'	1:N:429:U:C5	2.50	0.46
1:N:1075:U:C5	1:N:1076:U:C5	3.04	0.46
1:N:152:A:C8	1:N:153:C:C6	3.03	0.46
1:N:557:G:C2	1:N:558:G:C2	3.03	0.46
1:N:1366:C:C4	1:N:1367:C:C4	3.02	0.46
1:N:1383:C:C4	1:N:1384:C:C4	3.03	0.46
1:N:301:G:C6	1:N:302:G:C6	3.03	0.46
1:N:383:A:OP1	1:N:455:G:H4'	2.16	0.46
1:N:780:A:H4'	1:N:1523:G:H5''	1.96	0.46
1:N:1001:C:H2'	1:N:1002:G:C8	2.51	0.46
1:N:1024:G:C6	1:N:1025:U:C5	3.04	0.46
1:N:33:A:N7	1:N:398:U:H4'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:895:G:N7	1:N:896:C:C5	2.84	0.46
1:N:1055:A:C6	1:N:1206:G:C6	3.03	0.46
1:N:1287:A:C6	1:N:1288:A:C6	3.04	0.46
1:N:714:G:H2'	1:N:715:A:C8	2.51	0.46
1:N:1244:G:C6	1:N:1245:C:C4	3.04	0.46
1:N:150:U:C4	1:N:170:U:C4	3.04	0.46
1:N:1383:C:C2	1:N:1384:C:C6	3.04	0.46
1:N:1434:A:C5	1:N:1435:G:C5	3.04	0.46
1:N:240:G:C6	1:N:241:G:C6	3.04	0.45
1:N:355:C:H2'	1:N:356:A:C8	2.51	0.45
1:N:515:G:C6	1:N:537:G:C6	3.04	0.45
1:N:323:U:C4	1:N:324:G:C5	3.04	0.45
1:N:713:G:C5	1:N:714:G:C6	3.05	0.45
1:N:717:U:H2'	1:N:734:G:C8	2.51	0.45
1:N:830:G:N1	1:N:857:C:C2	2.83	0.45
1:N:92:U:H2'	1:N:93:U:C6	2.51	0.45
1:N:100:G:C6	1:N:101:A:C6	3.05	0.45
1:N:941:G:N1	1:N:1343:G:C6	2.85	0.45
1:N:1128:C:N3	1:N:1145:A:C2	2.85	0.45
1:N:934:C:C5	1:N:1344:C:H2'	2.51	0.45
1:N:1501:C:C5	1:N:1504:G:C4	3.04	0.45
1:N:36:C:C4	1:N:37:U:C5	3.04	0.45
1:N:482:A:C5	1:N:483:C:C2	3.04	0.45
1:N:806:C:H2'	1:N:807:A:C8	2.51	0.45
1:N:756:C:C4	1:N:757:U:C4	3.05	0.45
1:N:1479:C:H2'	1:N:1480:A:C8	2.52	0.45
1:N:585:G:C6	1:N:586:C:N3	2.84	0.45
1:N:782:A:N7	1:N:783:C:C4	2.85	0.45
1:N:509:A:H2'	1:N:510:A:C4	2.51	0.45
1:N:673:A:C6	1:N:674:G:C6	3.05	0.45
1:N:961:U:H2'	1:N:962:C:C6	2.51	0.45
1:N:338:A:C8	1:N:339:C:C5	3.05	0.45
1:N:604:G:C5	1:N:605:U:C4	3.05	0.45
1:N:1433:A:C8	1:N:1468:A:C6	3.04	0.44
1:N:160:A:H2'	1:N:161:A:C8	2.51	0.44
1:N:756:C:C2	1:N:757:U:C6	3.06	0.44
1:N:1321:U:H2'	1:N:1322:C:H2'	1.99	0.44
1:N:1350:A:N1	1:N:1373:G:C2	2.85	0.44
1:N:738:C:H2'	1:N:739:C:C6	2.52	0.44
1:N:949:A:N6	1:N:1232:U:H3	2.15	0.44
1:N:1135:U:H3	1:N:1138:G:H22	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:354:G:N1	1:N:355:C:C2	2.85	0.44
1:N:760:G:C4	1:N:761:G:C8	3.05	0.44
1:N:216:U:H2'	1:N:217:C:C6	2.52	0.44
1:N:228:A:C6	1:N:229:U:C2	3.06	0.44
1:N:1104:G:C6	1:N:1105:A:C5	3.06	0.44
1:N:124:C:C2	1:N:238:A:C2	3.06	0.44
1:N:1484:C:C4	1:N:1485:U:N3	2.86	0.44
1:N:465:A:C6	1:N:466:A:C6	3.06	0.44
1:N:794:A:C8	1:N:795:C:C6	3.05	0.44
1:N:809:G:H22	1:N:899:C:N4	2.16	0.44
1:N:255:G:C4	1:N:256:U:C6	3.06	0.44
1:N:25:C:H41	1:N:559:A:N6	2.16	0.44
1:N:1224:U:H5	1:N:1322:C:C5	2.36	0.44
1:N:39:G:C8	1:N:498:A:H1'	2.52	0.44
1:N:688:G:C6	1:N:700:G:C6	3.06	0.44
1:N:668:G:C6	1:N:669:G:C5	3.05	0.44
1:N:679:C:H2'	1:N:680:C:O4'	2.18	0.44
1:N:78:A:C6	1:N:79:G:N1	2.86	0.44
1:N:72:A:C4	1:N:73:C:C6	3.06	0.44
1:N:1163:A:C2	1:N:1164:G:C4	3.06	0.43
1:N:25:C:H41	1:N:559:A:H61	1.65	0.43
1:N:409:U:H2'	1:N:410:G:C8	2.53	0.43
1:N:57:G:C6	1:N:356:A:N1	2.86	0.43
1:N:168:G:C6	1:N:169:C:C5	3.06	0.43
1:N:496:A:N1	1:N:497:G:C6	2.87	0.43
1:N:628:G:C4	1:N:629:A:C8	3.05	0.43
1:N:275:G:H5''	1:N:275:G:C8	2.54	0.43
1:N:405:U:H5'	1:N:495:A:C2	2.54	0.43
1:N:579:A:C6	1:N:763:G:C6	3.06	0.43
1:N:1041:G:C6	1:N:1042:A:C6	3.07	0.43
1:N:197:A:C2	1:N:220:G:N3	2.87	0.43
1:N:243:A:H61	1:N:281:G:H1'	1.84	0.43
1:N:406:G:C6	1:N:407:U:C4	3.06	0.43
1:N:585:G:C2	1:N:586:C:C2	3.06	0.43
1:N:991:U:H4'	1:N:992:U:OP1	2.19	0.43
1:N:1315:U:H2'	1:N:1316:G:C8	2.53	0.43
1:N:1004:A:C5'	1:N:1024:G:H22	2.32	0.43
1:N:1177:G:H3'	1:N:1178:G:C8	2.53	0.43
1:N:1423:G:C5	1:N:1424:U:C4	3.07	0.43
1:N:339:C:H2'	1:N:340:U:C6	2.53	0.43
1:N:417:G:C5	1:N:418:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:A:H62	1:N:469:C:H2'	1.82	0.43
1:N:585:G:H2'	1:N:586:C:C6	2.54	0.43
1:N:895:G:C6	1:N:896:C:C4	3.07	0.43
1:N:410:G:H2'	1:N:429:U:C4	2.54	0.43
1:N:473:U:N3	1:N:474:G:C6	2.86	0.43
1:N:669:G:C6	1:N:670:G:C5	3.07	0.43
1:N:687:A:C2	1:N:704:A:C6	3.06	0.43
1:N:1095:U:H2'	1:N:1096:C:O4'	2.18	0.43
1:N:1501:C:H5	1:N:1504:G:HO2'	1.65	0.43
1:N:929:G:C6	1:N:930:C:C4	3.06	0.43
1:N:1306:A:N6	1:N:1331:G:H1'	2.33	0.42
1:N:145:G:C2	1:N:178:C:C2	3.07	0.42
1:N:208:U:C2	1:N:209:U:C4	3.07	0.42
1:N:272:C:H2'	1:N:273:U:O4'	2.18	0.42
1:N:1256:A:N7	1:N:1279:G:C6	2.87	0.42
1:N:513:C:H2'	1:N:514:C:C6	2.54	0.42
1:N:525:C:H2'	1:N:526:C:C6	2.54	0.42
1:N:594:U:C4	1:N:595:A:N6	2.87	0.42
1:N:804:U:C5	1:N:805:C:C5	3.07	0.42
1:N:1244:G:C6	1:N:1294:G:C6	3.07	0.42
1:N:257:G:C2	1:N:258:G:C4	3.08	0.42
1:N:301:G:C6	1:N:302:G:C5	3.07	0.42
1:N:39:G:H1'	1:N:497:G:H21	1.85	0.42
1:N:42:G:C8	1:N:42:G:H3'	2.54	0.42
1:N:998:C:C5	1:N:999:C:C5	3.07	0.42
1:N:198:G:C6	1:N:199:A:C6	3.07	0.42
1:N:580:C:H42	1:N:762:U:H3	1.68	0.42
1:N:663:A:H2	1:N:742:G:H22	1.67	0.42
1:N:807:A:C2	1:N:808:C:C2	3.08	0.42
1:N:98:A:H2'	1:N:99:C:O4'	2.19	0.42
1:N:1006:G:C6	1:N:1007:U:C4	3.08	0.42
1:N:39:G:N7	1:N:547:A:C8	2.87	0.42
1:N:76:G:N3	1:N:76:G:H2'	2.35	0.42
1:N:908:A:C2	1:N:909:A:C4	3.07	0.42
1:N:584:G:C6	1:N:585:G:C5	3.07	0.42
1:N:778:G:O6	1:N:805:C:C2	2.72	0.42
1:N:920:U:C4	1:N:921:U:C4	3.08	0.42
1:N:982:U:H4'	1:N:983:A:O5'	2.20	0.42
1:N:1043:G:H2'	1:N:1044:A:C8	2.54	0.42
1:N:1072:G:C6	1:N:1073:U:N3	2.88	0.42
1:N:1349:A:N1	1:N:1374:A:H1'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1509:C:H2'	1:N:1510:C:C6	2.55	0.42
1:N:243:A:H4'	1:N:244:U:H5''	2.02	0.42
1:N:342:C:C2	1:N:343:U:N1	2.88	0.42
1:N:525:C:C4	1:N:526:C:C4	3.08	0.42
1:N:1062:U:H2'	1:N:1063:C:C6	2.54	0.42
1:N:1127:G:H21	1:N:1148:U:H3	1.66	0.42
1:N:1436:U:H2'	1:N:1437:A:C8	2.54	0.42
1:N:299:G:C6	1:N:300:A:C6	3.08	0.42
1:N:582:C:N3	1:N:760:G:C5	2.88	0.42
1:N:852:G:C6	1:N:853:C:N3	2.88	0.42
1:N:323:U:H2'	1:N:324:G:O4'	2.20	0.41
1:N:954:G:C6	1:N:955:U:C4	3.08	0.41
1:N:1434:A:H2'	1:N:1435:G:O4'	2.19	0.41
1:N:143:A:N3	1:N:143:A:H2'	2.35	0.41
1:N:21:G:H2'	1:N:22:G:C8	2.55	0.41
1:N:373:A:C2	1:N:482:A:C6	3.08	0.41
1:N:69:G:C6	1:N:70:U:C4	3.08	0.41
1:N:755:G:C6	1:N:756:C:C5	3.08	0.41
1:N:786:G:C6	1:N:797:C:N3	2.88	0.41
1:N:152:A:C8	1:N:153:C:C5	3.08	0.41
1:N:207:C:H2'	1:N:208:U:C6	2.56	0.41
1:N:403:C:H41	1:N:547:A:H5''	1.85	0.41
1:N:539:A:C5	1:N:540:G:C5	3.08	0.41
1:N:675:A:N1	1:N:716:A:C2	2.88	0.41
1:N:283:U:C6	1:N:284:C:C5	3.09	0.41
1:N:803:G:C2	1:N:804:U:C2	3.08	0.41
1:N:171:A:C2	1:N:172:A:C2	3.09	0.41
1:N:405:U:C5'	1:N:495:A:C2	3.04	0.41
1:N:1066:C:C6	1:N:1066:C:H5''	2.56	0.41
1:N:107:G:H5''	1:N:134:G:H21	1.84	0.41
1:N:964:A:H1'	1:N:970:C:OP2	2.20	0.41
1:N:953:G:C4	1:N:1229:A:C2	3.09	0.41
1:N:1265:C:C2	1:N:1271:A:C2	3.08	0.41
1:N:1316:G:N2	1:N:1319:A:C8	2.89	0.41
1:N:373:A:C2	1:N:374:A:C4	3.09	0.41
1:N:1064:G:H4'	1:N:1065:U:H4'	2.02	0.41
1:N:1125:U:H2'	1:N:1126:U:H2'	2.03	0.41
1:N:1309:G:C6	1:N:1310:G:C6	3.08	0.41
1:N:363:A:C6	1:N:364:A:C6	3.09	0.41
1:N:701:U:C5'	1:N:703:G:H5'	2.51	0.41
1:N:1047:G:C2	1:N:1213:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1129:C:C2	1:N:1144:G:C2	3.09	0.41
1:N:1143:G:H2'	1:N:1144:G:H8	1.85	0.41
1:N:136:C:C2	1:N:228:A:C2	3.08	0.41
1:N:223:A:C6	1:N:224:U:C4	3.08	0.41
1:N:240:G:C6	1:N:241:G:C5	3.09	0.41
1:N:295:C:C4	1:N:296:U:C4	3.09	0.41
1:N:105:G:H21	1:N:380:G:H5'	1.86	0.41
1:N:486:U:H5''	1:N:486:U:C6	2.56	0.41
1:N:625:U:H2'	1:N:626:G:C8	2.55	0.41
1:N:677:U:H3	1:N:713:G:H1	1.68	0.41
1:N:858:G:H1	1:N:869:G:C2'	2.32	0.41
1:N:1010:U:N3	1:N:1011:C:C5	2.89	0.41
1:N:1379:G:C6	1:N:1380:U:C4	3.09	0.41
1:N:18:C:N3	1:N:918:A:C2	2.89	0.41
1:N:459:A:H61	1:N:472:U:H3	1.68	0.41
1:N:78:A:C2	1:N:79:G:C2	3.09	0.41
1:N:829:G:C6	1:N:830:G:C5	3.09	0.41
1:N:901:A:C5	1:N:902:G:H1'	2.56	0.41
1:N:130:A:H2	1:N:232:G:H22	1.69	0.41
1:N:1088:G:C6	1:N:1089:G:C5	3.08	0.40
1:N:1128:C:C2	1:N:1145:A:C2	3.08	0.40
1:N:936:C:H1'	1:N:1382:C:H42	1.86	0.40
1:N:1431:A:C5	1:N:1432:G:C6	3.09	0.40
1:N:14:U:H3	1:N:16:A:H3'	1.86	0.40
1:N:411:A:H61	1:N:428:G:H1'	1.86	0.40
1:N:462:G:OP1	1:N:464:U:C5	2.74	0.40
1:N:73:C:H3'	1:N:74:A:H5''	2.03	0.40
1:N:1198:G:C5	1:N:1199:U:C4	3.09	0.40
1:N:1378:C:C4	1:N:1379:G:C5	3.08	0.40
1:N:542:G:C6	1:N:543:U:C5	3.09	0.40
1:N:149:A:C6	1:N:174:A:C2	3.09	0.40
1:N:655:A:C2	1:N:656:G:C4	3.09	0.40
1:N:786:G:C2	1:N:797:C:C2	3.09	0.40
1:N:942:G:C5	1:N:943:U:C5	3.09	0.40
1:N:1171:A:C2	1:N:1172:C:C2	3.10	0.40
1:N:223:A:C6	1:N:224:U:N3	2.90	0.40
1:N:585:G:C6	1:N:586:C:C4	3.09	0.40
1:N:894:G:C4	1:N:895:G:C8	3.10	0.40
1:N:1207:G:C6	1:N:1208:C:C4	3.09	0.40
1:N:218:U:C5	1:N:219:U:C4	3.10	0.40
1:N:113:G:H21	1:N:353:A:H2'	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:502:A:H2'	1:N:503:C:O4'	2.21	0.40
1:N:506:G:C2	1:N:507:C:C2	3.10	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

### 5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	N	1532/1533 (99%)	452 (29%)	147 (9%)

All (452) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	N	4	U
1	N	5	U
1	N	6	G
1	N	8	A
1	N	9	G
1	N	14	U
1	N	22	G
1	N	27	G
1	N	31	G
1	N	32	A
1	N	39	G
1	N	47	C
1	N	48	C
1	N	49	U
1	N	50	A
1	N	51	A

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Mol	Chain	Res	Type
1	N	52	C
1	N	60	A
1	N	61	G
1	N	65	A
1	N	66	A
1	N	70	U
1	N	71	A
1	N	72	A
1	N	73	C
1	N	74	A
1	N	75	G
1	N	76	G
1	N	77	A
1	N	79	G
1	N	81	A
1	N	82	G
1	N	83	C
1	N	84	U
1	N	85	U
1	N	86	G
1	N	87	C
1	N	88	U
1	N	89	U
1	N	90	C
1	N	91	U
1	N	92	U
1	N	94	G
1	N	95	C
1	N	97	G
1	N	107	G
1	N	108	G
1	N	109	A
1	N	110	C
1	N	115	G
1	N	116	A
1	N	119	A
1	N	120	A
1	N	127	G
1	N	130	A
1	N	131	A
1	N	132	C
1	N	134	G

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Mol	Chain	Res	Type
1	N	135	C
1	N	138	G
1	N	141	G
1	N	143	A
1	N	146	G
1	N	159	G
1	N	160	A
1	N	161	A
1	N	163	C
1	N	164	G
1	N	173	U
1	N	174	A
1	N	177	G
1	N	181	A
1	N	182	A
1	N	183	C
1	N	189	A
1	N	195	A
1	N	197	A
1	N	198	G
1	N	199	A
1	N	202	G
1	N	205	A
1	N	207	C
1	N	208	U
1	N	209	U
1	N	210	C
1	N	211	G
1	N	212	G
1	N	214	C
1	N	219	U
1	N	232	G
1	N	240	G
1	N	243	A
1	N	244	U
1	N	245	U
1	N	247	G
1	N	251	G
1	N	252	U
1	N	258	G
1	N	266	G
1	N	267	C

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Mol	Chain	Res	Type
1	N	268	U
1	N	273	U
1	N	274	A
1	N	275	G
1	N	276	G
1	N	279	A
1	N	280	C
1	N	281	G
1	N	285	C
1	N	289	G
1	N	306	A
1	N	307	C
1	N	315	A
1	N	316	C
1	N	321	A
1	N	328	C
1	N	329	A
1	N	330	C
1	N	331	G
1	N	332	G
1	N	344	A
1	N	345	C
1	N	346	G
1	N	347	G
1	N	351	G
1	N	352	C
1	N	353	A
1	N	354	G
1	N	363	A
1	N	366	A
1	N	367	U
1	N	368	U
1	N	369	G
1	N	373	A
1	N	376	G
1	N	384	G
1	N	388	G
1	N	390	U
1	N	392	C
1	N	406	G
1	N	411	A
1	N	412	A

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Mol	Chain	Res	Type
1	N	413	G
1	N	414	A
1	N	422	C
1	N	424	G
1	N	428	G
1	N	429	U
1	N	430	A
1	N	439	U
1	N	441	A
1	N	448	A
1	N	451	A
1	N	452	A
1	N	457	G
1	N	458	U
1	N	459	A
1	N	461	A
1	N	462	G
1	N	463	U
1	N	466	A
1	N	467	U
1	N	468	A
1	N	469	C
1	N	470	C
1	N	481	G
1	N	482	A
1	N	484	G
1	N	485	U
1	N	486	U
1	N	496	A
1	N	497	G
1	N	498	A
1	N	499	A
1	N	500	G
1	N	508	U
1	N	509	A
1	N	511	C
1	N	512	U
1	N	523	A
1	N	527	G
1	N	531	U
1	N	532	A
1	N	533	A

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Mol	Chain	Res	Type
1	N	534	U
1	N	536	C
1	N	537	G
1	N	548	G
1	N	556	C
1	N	559	A
1	N	560	A
1	N	561	U
1	N	562	U
1	N	563	A
1	N	564	C
1	N	566	G
1	N	567	G
1	N	572	A
1	N	573	A
1	N	574	A
1	N	575	G
1	N	576	C
1	N	577	G
1	N	579	A
1	N	588	G
1	N	595	A
1	N	596	A
1	N	604	G
1	N	606	G
1	N	607	A
1	N	610	U
1	N	619	U
1	N	629	A
1	N	632	U
1	N	633	G
1	N	642	A
1	N	649	A
1	N	653	U
1	N	665	A
1	N	702	A
1	N	703	G
1	N	718	A
1	N	719	C
1	N	720	C
1	N	721	G
1	N	722	G

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Mol	Chain	Res	Type
1	N	723	U
1	N	724	G
1	N	731	G
1	N	733	G
1	N	748	G
1	N	754	C
1	N	755	G
1	N	767	A
1	N	768	A
1	N	774	G
1	N	776	G
1	N	777	A
1	N	787	A
1	N	788	U
1	N	792	A
1	N	793	U
1	N	794	A
1	N	802	A
1	N	812	G
1	N	813	U
1	N	815	A
1	N	816	A
1	N	817	C
1	N	818	G
1	N	819	A
1	N	820	U
1	N	821	G
1	N	828	U
1	N	829	G
1	N	832	G
1	N	843	U
1	N	844	G
1	N	845	A
1	N	846	G
1	N	855	U
1	N	861	G
1	N	870	U
1	N	871	U
1	N	884	U
1	N	885	G
1	N	914	A
1	N	926	G

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Mol	Chain	Res	Type
1	N	927	G
1	N	932	C
1	N	934	C
1	N	935	A
1	N	944	G
1	N	960	U
1	N	961	U
1	N	966	G
1	N	967	C
1	N	968	A
1	N	969	A
1	N	970	C
1	N	971	G
1	N	972	C
1	N	974	A
1	N	975	A
1	N	977	A
1	N	982	U
1	N	983	A
1	N	992	U
1	N	993	G
1	N	994	A
1	N	1003	G
1	N	1004	A
1	N	1008	U
1	N	1017	U
1	N	1018	G
1	N	1022	A
1	N	1028	C
1	N	1029	U
1	N	1030	U
1	N	1031	C
1	N	1032	G
1	N	1034	G
1	N	1036	A
1	N	1037	C
1	N	1050	G
1	N	1052	U
1	N	1053	G
1	N	1054	C
1	N	1055	A
1	N	1064	G

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Mol	Chain	Res	Type
1	N	1065	U
1	N	1066	C
1	N	1079	G
1	N	1085	U
1	N	1086	U
1	N	1087	G
1	N	1088	G
1	N	1091	U
1	N	1092	A
1	N	1094	G
1	N	1095	U
1	N	1100	C
1	N	1101	A
1	N	1102	A
1	N	1104	G
1	N	1111	A
1	N	1112	C
1	N	1113	C
1	N	1124	G
1	N	1125	U
1	N	1126	U
1	N	1127	G
1	N	1129	C
1	N	1130	A
1	N	1133	G
1	N	1135	U
1	N	1137	C
1	N	1138	G
1	N	1139	G
1	N	1140	C
1	N	1141	C
1	N	1144	G
1	N	1145	A
1	N	1151	A
1	N	1152	A
1	N	1158	C
1	N	1159	U
1	N	1160	G
1	N	1161	C
1	N	1168	U
1	N	1169	A
1	N	1181	G

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Mol	Chain	Res	Type
1	N	1182	G
1	N	1189	U
1	N	1190	G
1	N	1191	A
1	N	1192	C
1	N	1193	G
1	N	1196	A
1	N	1197	A
1	N	1198	G
1	N	1200	C
1	N	1201	A
1	N	1202	U
1	N	1211	U
1	N	1213	A
1	N	1223	C
1	N	1224	U
1	N	1225	A
1	N	1226	C
1	N	1227	A
1	N	1228	C
1	N	1229	A
1	N	1238	A
1	N	1239	A
1	N	1240	U
1	N	1241	G
1	N	1252	A
1	N	1256	A
1	N	1258	G
1	N	1275	A
1	N	1278	G
1	N	1279	G
1	N	1280	A
1	N	1281	C
1	N	1282	C
1	N	1283	U
1	N	1286	U
1	N	1287	A
1	N	1293	C
1	N	1297	G
1	N	1298	U
1	N	1299	A
1	N	1300	G

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Mol	Chain	Res	Type
1	N	1303	C
1	N	1305	G
1	N	1308	U
1	N	1315	U
1	N	1316	G
1	N	1320	C
1	N	1322	C
1	N	1323	G
1	N	1331	G
1	N	1332	A
1	N	1336	C
1	N	1337	G
1	N	1346	A
1	N	1353	G
1	N	1358	U
1	N	1359	C
1	N	1362	A
1	N	1363	A
1	N	1364	U
1	N	1365	G
1	N	1371	G
1	N	1380	U
1	N	1381	U
1	N	1394	A
1	N	1396	A
1	N	1397	C
1	N	1398	A
1	N	1399	C
1	N	1400	C
1	N	1406	U
1	N	1433	A
1	N	1440	U
1	N	1441	A
1	N	1446	A
1	N	1448	C
1	N	1452	C
1	N	1453	G
1	N	1454	G
1	N	1457	G
1	N	1469	C
1	N	1470	U
1	N	1492	A

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Mol	Chain	Res	Type
1	N	1493	A
1	N	1494	G
1	N	1497	G
1	N	1498	U
1	N	1499	A
1	N	1502	A
1	N	1503	A
1	N	1505	G
1	N	1506	U
1	N	1507	A
1	N	1517	G
1	N	1529	G
1	N	1530	G
1	N	1531	A
1	N	1533	C
1	N	1534	A

All (147) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	N	5	U
1	N	13	U
1	N	30	U
1	N	47	C
1	N	49	U
1	N	51	A
1	N	56	U
1	N	60	A
1	N	65	A
1	N	70	U
1	N	71	A
1	N	73	C
1	N	75	G
1	N	81	A
1	N	84	U
1	N	87	C
1	N	90	C
1	N	94	G
1	N	109	A
1	N	115	G
1	N	119	A
1	N	120	A

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Mol	Chain	Res	Type
1	N	129	A
1	N	130	A
1	N	131	A
1	N	134	G
1	N	167	A
1	N	168	G
1	N	181	A
1	N	197	A
1	N	198	G
1	N	204	G
1	N	210	C
1	N	243	A
1	N	246	A
1	N	251	G
1	N	266	G
1	N	267	C
1	N	274	A
1	N	275	G
1	N	279	A
1	N	280	C
1	N	305	G
1	N	327	A
1	N	344	A
1	N	346	G
1	N	351	G
1	N	366	A
1	N	372	C
1	N	428	G
1	N	429	U
1	N	438	U
1	N	451	A
1	N	462	G
1	N	467	U
1	N	468	A
1	N	481	G
1	N	484	G
1	N	485	U
1	N	495	A
1	N	496	A
1	N	499	A
1	N	500	G
1	N	508	U

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Mol	Chain	Res	Type
1	N	511	C
1	N	530	G
1	N	531	U
1	N	532	A
1	N	535	A
1	N	547	A
1	N	559	A
1	N	563	A
1	N	566	G
1	N	575	G
1	N	631	C
1	N	641	U
1	N	686	U
1	N	721	G
1	N	723	U
1	N	733	G
1	N	754	C
1	N	774	G
1	N	792	A
1	N	817	C
1	N	819	A
1	N	820	U
1	N	845	A
1	N	870	U
1	N	884	U
1	N	913	A
1	N	934	C
1	N	960	U
1	N	974	A
1	N	982	U
1	N	991	U
1	N	993	G
1	N	1018	G
1	N	1036	A
1	N	1049	U
1	N	1053	G
1	N	1064	G
1	N	1066	C
1	N	1087	G
1	N	1094	G
1	N	1101	A
1	N	1111	A

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Mol	Chain	Res	Type
1	N	1129	C
1	N	1140	C
1	N	1151	A
1	N	1160	G
1	N	1168	U
1	N	1185	G
1	N	1191	A
1	N	1197	A
1	N	1201	A
1	N	1214	C
1	N	1224	U
1	N	1228	C
1	N	1239	A
1	N	1251	A
1	N	1263	C
1	N	1282	C
1	N	1285	A
1	N	1298	U
1	N	1299	A
1	N	1303	C
1	N	1319	A
1	N	1331	G
1	N	1336	C
1	N	1337	G
1	N	1345	U
1	N	1358	U
1	N	1362	A
1	N	1363	A
1	N	1364	U
1	N	1380	U
1	N	1396	A
1	N	1399	C
1	N	1432	G
1	N	1440	U
1	N	1492	A
1	N	1494	G
1	N	1498	U
1	N	1502	A
1	N	1506	U
1	N	1530	G
1	N	1533	C

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.