Full wwPDB EM Validation Report ⓘ

Feb 19, 2026 – 02:30 pm GMT

PDB ID	:	9R7W / pdb_00009r7w
EMDB ID	:	EMD-53795
Title	:	5-Helix Tile - Twist Corrected (5HT-TC) with 2'-Fluoro-modified pyrimidines (FY RNA)
Authors	:	Kristoffersen, E.L.; Andersen, E.S.; Zwergius, N.H.
Deposited on	:	2025-05-15
Resolution	:	6.06 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *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.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

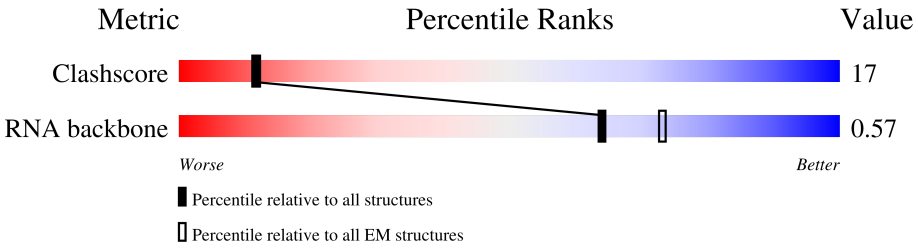
EMDB validation analysis	:	0.0.1.dev131
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.48

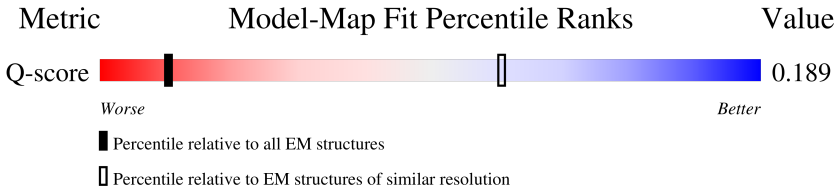
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 6.06 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
RNA backbone	6643	2191	-
Q-score	-	25397	490 (5.57 - 6.56)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. 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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	552	7% 18% 46% 36%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 11752 atoms, of which 0 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.

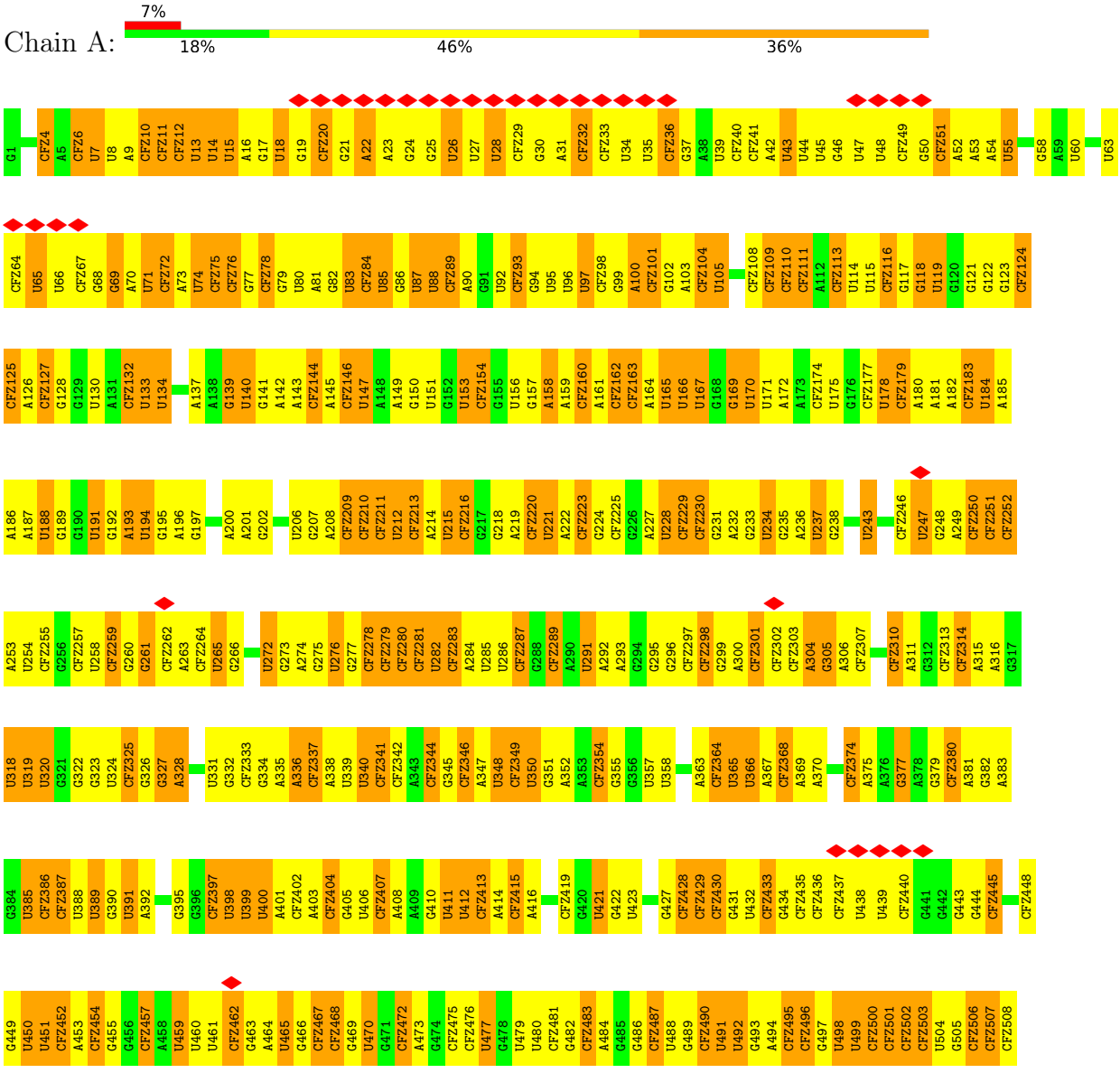
- Molecule 1 is a RNA chain called DNA/RNA (552-MER).

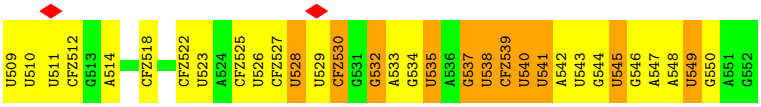
Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	F	N	O	P		
1	A	552	11752	5246	274	2080	3600	552	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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 and atom inclusion in map density. 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. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: DNA/RNA (552-MER)




U509
U510
U511
CFZ512
G513
A514
CFZ518
CFZ522
U523
A524
CFZ525
U526
CFZ527
U528
U529
CFZ530
G531
G532
A533
G534
U535
A536
G537
U538
CFZ539
U540
U541
A542
U543
G544
U545
G546
A547
A548
U549
G550
A551
G552

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	314600	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	130000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.497	Depositor
Minimum map value	-0.131	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.019	Depositor
Recommended contour level	0.14	Depositor
Map size (Å)	331.264, 331.264, 331.264	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.294, 1.294, 1.294	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: UFT, CFZ

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	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.49	43/7031 (0.6%)	0.24	0/10854

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	276	UFT	O3'-P	6.26	1.62	1.56
1	A	543	UFT	O3'-P	6.19	1.62	1.56
1	A	206	UFT	O3'-P	6.07	1.62	1.56
1	A	85	UFT	O3'-P	6.07	1.62	1.56
1	A	320	UFT	O3'-P	6.06	1.62	1.56
1	A	291	UFT	O3'-P	5.99	1.62	1.56
1	A	80	UFT	O3'-P	5.88	1.62	1.56
1	A	147	UFT	O3'-P	5.85	1.62	1.56
1	A	119	UFT	O3'-P	5.84	1.62	1.56
1	A	15	UFT	O3'-P	5.82	1.62	1.56
1	A	331	UFT	O3'-P	5.71	1.61	1.56
1	A	247	UFT	O3'-P	5.71	1.61	1.56
1	A	366	UFT	O3'-P	5.67	1.61	1.56
1	A	8	UFT	O3'-P	5.62	1.61	1.56
1	A	237	UFT	O3'-P	5.61	1.61	1.56
1	A	465	UFT	O3'-P	5.61	1.61	1.56
1	A	535	UFT	O3'-P	5.57	1.61	1.56
1	A	477	UFT	O3'-P	5.56	1.61	1.56
1	A	130	UFT	O3'-P	5.56	1.61	1.56
1	A	400	UFT	O3'-P	5.55	1.61	1.56
1	A	243	UFT	O3'-P	5.54	1.61	1.56
1	A	60	UFT	O3'-P	5.53	1.61	1.56
1	A	358	UFT	O3'-P	5.51	1.61	1.56
1	A	167	UFT	O3'-P	5.51	1.61	1.56
1	A	175	UFT	O3'-P	5.51	1.61	1.56
1	A	45	UFT	O3'-P	5.46	1.61	1.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	545	UFT	O3'-P	5.45	1.61	1.56
1	A	523	UFT	O3'-P	5.43	1.61	1.56
1	A	156	UFT	O3'-P	5.42	1.61	1.56
1	A	18	UFT	O3'-P	5.36	1.61	1.56
1	A	140	UFT	O3'-P	5.30	1.61	1.56
1	A	55	UFT	O3'-P	5.28	1.61	1.56
1	A	184	UFT	O3'-P	5.22	1.61	1.56
1	A	234	UFT	O3'-P	5.19	1.61	1.56
1	A	470	UFT	O3'-P	5.17	1.61	1.56
1	A	221	UFT	O3'-P	5.17	1.61	1.56
1	A	134	UFT	O3'-P	5.14	1.61	1.56
1	A	389	UFT	O3'-P	5.13	1.61	1.56
1	A	423	UFT	O3'-P	5.12	1.61	1.56
1	A	488	UFT	O3'-P	5.06	1.61	1.56
1	A	188	UFT	O3'-P	5.06	1.61	1.56
1	A	272	UFT	O3'-P	5.02	1.61	1.56
1	A	105	UFT	O3'-P	5.01	1.61	1.56

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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	A	11752	0	5667	302	0
All	All	11752	0	5667	302	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 17.

All (302) 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:A:25:G:H1	1:A:32:CFZ:HN4	1.02	1.02
1:A:430:CFZ:HN4	1:A:449:G:H1	1.00	0.98
1:A:459:UFT:HN3	1:A:464:A:N6	1.61	0.97
1:A:328:A:H61	1:A:350:UFT:HN3	0.92	0.92
1:A:328:A:N6	1:A:350:UFT:HN3	1.68	0.91
1:A:459:UFT:HN3	1:A:464:A:H61	1.09	0.88
1:A:247:UFT:HN3	1:A:311:A:H61	1.27	0.83
1:A:334:G:H1	1:A:344:CFZ:HN4	1.30	0.80
1:A:247:UFT:HN3	1:A:311:A:N6	1.80	0.78
1:A:287:CFZ:N3	1:A:546:G:O6	2.17	0.77
1:A:430:CFZ:N3	1:A:449:G:N2	2.30	0.77
1:A:221:UFT:H2'	1:A:222:A:H8	1.52	0.75
1:A:93:CFZ:N4	1:A:94:G:O6	2.20	0.74
1:A:319:UFT:H2'	1:A:320:UFT:H6	1.69	0.73
1:A:304:A:N1	1:A:320:UFT:O4	2.22	0.73
1:A:19:G:H2'	1:A:20:CFZ:H6	1.71	0.72
1:A:380:CFZ:H2'	1:A:381:A:H8	1.55	0.71
1:A:25:G:N2	1:A:32:CFZ:N3	2.35	0.71
1:A:209:CFZ:H2'	1:A:210:CFZ:H6	1.73	0.71
1:A:146:CFZ:H2'	1:A:147:UFT:H6	1.71	0.71
1:A:541:UFT:H2'	1:A:542:A:H8	1.57	0.69
1:A:464:A:H2'	1:A:465:UFT:H6	1.75	0.69
1:A:87:UFT:OP1	1:A:192:G:O2'	2.10	0.69
1:A:118:G:H2'	1:A:119:UFT:H6	1.73	0.69
1:A:450:UFT:H2'	1:A:451:UFT:H6	1.74	0.68
1:A:279:CFZ:H2'	1:A:280:CFZ:H6	1.75	0.68
1:A:477:UFT:HN3	1:A:484:A:H61	1.40	0.68
1:A:391:UFT:H2'	1:A:392:A:H8	1.59	0.68
1:A:162:CFZ:H2'	1:A:163:CFZ:H6	1.75	0.68
1:A:19:G:O6	1:A:263:A:N6	2.28	0.67
1:A:298:CFZ:HN4	1:A:326:G:H1	1.40	0.67
1:A:161:A:H2'	1:A:162:CFZ:H6	1.77	0.67
1:A:230:CFZ:H2'	1:A:231:G:H8	1.61	0.66
1:A:367:A:H2'	1:A:368:CFZ:H6	1.77	0.66
1:A:348:UFT:H2'	1:A:349:CFZ:H6	1.78	0.65
1:A:211:CFZ:H2'	1:A:212:UFT:H6	1.77	0.65
1:A:430:CFZ:H2'	1:A:431:G:H8	1.62	0.64
1:A:144:CFZ:H2'	1:A:145:A:H8	1.61	0.64
1:A:430:CFZ:H2'	1:A:431:G:C8	2.33	0.64
1:A:18:UFT:HN3	1:A:263:A:H61	1.46	0.64
1:A:26:UFT:HN3	1:A:31:A:N6	1.96	0.63
1:A:179:CFZ:N3	1:A:377:G:O6	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:UFT:F2’	1:A:500:CFZ:O4’	2.07	0.63
1:A:153:UFT:H2’	1:A:154:CFZ:H6	1.80	0.62
1:A:167:UFT:HN3	1:A:185:A:H61	1.47	0.62
1:A:490:CFZ:H2’	1:A:491:UFT:H6	1.81	0.62
1:A:539:CFZ:H2’	1:A:540:UFT:H6	1.80	0.61
1:A:228:UFT:H2’	1:A:229:CFZ:H6	1.81	0.61
1:A:281:CFZ:H2’	1:A:282:UFT:H6	1.81	0.61
1:A:125:CFZ:H2’	1:A:126:A:H8	1.65	0.61
1:A:277:G:H2’	1:A:278:CFZ:H6	1.82	0.61
1:A:444:G:H2’	1:A:445:CFZ:H6	1.82	0.61
1:A:275:G:H2’	1:A:276:UFT:H6	1.81	0.61
1:A:230:CFZ:H2’	1:A:231:G:C8	2.36	0.60
1:A:411:UFT:H2’	1:A:412:UFT:H6	1.83	0.60
1:A:164:A:H2’	1:A:165:UFT:H6	1.83	0.60
1:A:421:UFT:H2’	1:A:422:G:H8	1.66	0.60
1:A:413:CFZ:H2’	1:A:414:A:H8	1.67	0.60
1:A:415:CFZ:H2’	1:A:416:A:H8	1.64	0.59
1:A:50:G:H5”	1:A:51:CFZ:H5	1.83	0.59
1:A:163:CFZ:H2’	1:A:164:A:H8	1.67	0.59
1:A:235:G:H2’	1:A:236:A:H8	1.66	0.59
1:A:386:CFZ:H2’	1:A:387:CFZ:H6	1.85	0.59
1:A:75:CFZ:H2’	1:A:76:CFZ:H6	1.85	0.58
1:A:181:A:H2’	1:A:182:A:C8	2.38	0.58
1:A:544:G:H3’	1:A:545:UFT:H6	1.85	0.58
1:A:477:UFT:HN3	1:A:484:A:N6	2.02	0.58
1:A:278:CFZ:H2’	1:A:279:CFZ:H6	1.86	0.57
1:A:195:G:H2’	1:A:196:A:H8	1.69	0.57
1:A:287:CFZ:O2	1:A:546:G:N1	2.37	0.57
1:A:534:G:H2’	1:A:535:UFT:H6	1.87	0.57
1:A:4:CFZ:N3	1:A:277:G:O6	2.37	0.57
1:A:124:CFZ:H2’	1:A:125:CFZ:H6	1.86	0.57
1:A:126:A:H2’	1:A:127:CFZ:H6	1.85	0.57
1:A:368:CFZ:H2’	1:A:369:A:C8	2.40	0.57
1:A:443:G:H2’	1:A:444:G:H8	1.70	0.57
1:A:70:A:H2’	1:A:71:UFT:H6	1.87	0.57
1:A:391:UFT:H2’	1:A:392:A:C8	2.40	0.56
1:A:11:CFZ:H2’	1:A:12:CFZ:H6	1.86	0.56
1:A:300:A:H2’	1:A:301:CFZ:H6	1.88	0.56
1:A:26:UFT:HN3	1:A:31:A:H61	1.53	0.56
1:A:71:UFT:H2’	1:A:72:CFZ:H6	1.88	0.56
1:A:292:A:H2’	1:A:293:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:CFZ:H2'	1:A:251:CFZ:H6	1.87	0.55
1:A:413:CFZ:H2'	1:A:414:A:C8	2.42	0.55
1:A:497:G:H2'	1:A:498:UFT:H6	1.87	0.55
1:A:380:CFZ:H2'	1:A:381:A:C8	2.39	0.55
1:A:299:G:O6	1:A:325:CFZ:N3	2.38	0.55
1:A:369:A:H2'	1:A:370:A:C8	2.42	0.55
1:A:6:CFZ:H2'	1:A:7:UFT:H6	1.89	0.55
1:A:296:G:O6	1:A:502:CFZ:N4	2.40	0.55
1:A:169:G:H2'	1:A:170:UFT:H6	1.88	0.55
1:A:235:G:H2'	1:A:236:A:C8	2.42	0.54
1:A:407:CFZ:H2'	1:A:408:A:C8	2.42	0.54
1:A:289:CFZ:N3	1:A:544:G:O6	2.40	0.54
1:A:10:CFZ:H2'	1:A:11:CFZ:H6	1.89	0.54
1:A:132:CFZ:H2'	1:A:133:UFT:H6	1.89	0.54
1:A:314:CFZ:H2'	1:A:315:A:C8	2.42	0.54
1:A:123:G:H2'	1:A:124:CFZ:H6	1.90	0.54
1:A:184:UFT:H2'	1:A:185:A:H8	1.72	0.54
1:A:292:A:H2'	1:A:293:A:H8	1.72	0.54
1:A:457:CFZ:N3	1:A:466:G:O6	2.40	0.54
1:A:547:A:H2'	1:A:548:A:C8	2.43	0.54
1:A:84:CFZ:H2'	1:A:85:UFT:H6	1.90	0.54
1:A:103:A:H2'	1:A:104:CFZ:H6	1.88	0.54
1:A:346:CFZ:H2'	1:A:347:A:H8	1.73	0.54
1:A:193:A:H2'	1:A:194:UFT:H6	1.91	0.53
1:A:501:CFZ:H2'	1:A:502:CFZ:H6	1.90	0.53
1:A:125:CFZ:H2'	1:A:126:A:C8	2.43	0.53
1:A:412:UFT:H2'	1:A:413:CFZ:H6	1.89	0.53
1:A:349:CFZ:H2'	1:A:350:UFT:H6	1.90	0.53
1:A:163:CFZ:H2'	1:A:164:A:C8	2.43	0.53
1:A:249:A:H2'	1:A:250:CFZ:H6	1.89	0.53
1:A:83:UFT:H2'	1:A:84:CFZ:H6	1.90	0.53
1:A:334:G:N2	1:A:344:CFZ:N3	2.50	0.53
1:A:451:UFT:H2'	1:A:452:CFZ:H6	1.91	0.53
1:A:88:UFT:HN3	1:A:158:A:H61	1.57	0.52
1:A:195:G:H2'	1:A:196:A:C8	2.44	0.52
1:A:207:G:O6	1:A:338:A:N6	2.42	0.52
1:A:183:CFZ:H2'	1:A:184:UFT:H6	1.91	0.52
1:A:236:A:H2'	1:A:237:UFT:H6	1.91	0.52
1:A:467:CFZ:H2'	1:A:468:CFZ:H6	1.92	0.52
1:A:368:CFZ:H2'	1:A:369:A:H8	1.74	0.52
1:A:101:CFZ:H6	1:A:101:CFZ:O5'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:A:O2'	1:A:305:G:OP1	2.28	0.52
1:A:453:A:H2'	1:A:454:CFZ:H6	1.91	0.52
1:A:454:CFZ:H2'	1:A:455:G:H8	1.75	0.52
1:A:141:G:H2'	1:A:142:A:H8	1.75	0.52
1:A:89:CFZ:H2'	1:A:90:A:C8	2.45	0.51
1:A:366:UFT:O4	1:A:367:A:N6	2.43	0.51
1:A:72:CFZ:H2'	1:A:73:A:H8	1.74	0.51
1:A:180:A:H2'	1:A:181:A:H8	1.76	0.51
1:A:363:A:H2'	1:A:364:CFZ:H6	1.93	0.51
1:A:400:UFT:H2'	1:A:401:A:H8	1.76	0.51
1:A:197:G:H1	1:A:211:CFZ:HN4	1.58	0.51
1:A:188:UFT:H2'	1:A:189:G:C8	2.46	0.51
1:A:337:CFZ:H2'	1:A:338:A:H8	1.75	0.51
1:A:494:A:H2'	1:A:495:CFZ:H6	1.92	0.51
1:A:389:UFT:H2'	1:A:390:G:C8	2.46	0.50
1:A:104:CFZ:H2'	1:A:105:UFT:H6	1.92	0.50
1:A:539:CFZ:H2'	1:A:540:UFT:C6	2.41	0.50
1:A:399:UFT:H2'	1:A:400:UFT:H6	1.93	0.50
1:A:238:G:O6	1:A:253:A:N6	2.44	0.50
1:A:283:CFZ:H2'	1:A:284:A:C8	2.47	0.50
1:A:365:UFT:H2'	1:A:366:UFT:H6	1.94	0.49
1:A:397:CFZ:H2'	1:A:398:UFT:H6	1.93	0.49
1:A:547:A:H2'	1:A:548:A:H8	1.76	0.49
1:A:76:CFZ:H2'	1:A:77:G:H8	1.77	0.49
1:A:99:G:H3'	1:A:100:A:C8	2.46	0.49
1:A:482:G:H2'	1:A:483:CFZ:O4'	2.12	0.49
1:A:52:A:H2'	1:A:53:A:H8	1.78	0.49
1:A:468:CFZ:H2'	1:A:469:G:C8	2.48	0.49
1:A:178:UFT:H6	1:A:178:UFT:O5'	2.13	0.49
1:A:334:G:H2'	1:A:335:A:H8	1.78	0.49
1:A:180:A:H2'	1:A:181:A:C8	2.47	0.49
1:A:213:CFZ:H2'	1:A:214:A:C8	2.48	0.49
1:A:462:CFZ:F2'	1:A:463:G:N2	2.34	0.48
1:A:76:CFZ:H2'	1:A:77:G:C8	2.48	0.48
1:A:139:G:H2'	1:A:140:UFT:H6	1.95	0.48
1:A:502:CFZ:H2'	1:A:503:CFZ:H6	1.95	0.48
1:A:237:UFT:H2'	1:A:238:G:H8	1.79	0.48
1:A:283:CFZ:H2'	1:A:284:A:H8	1.78	0.48
1:A:379:G:H2'	1:A:380:CFZ:H6	1.94	0.48
1:A:81:A:H2'	1:A:82:G:C8	2.48	0.48
1:A:326:G:O2'	1:A:327:G:O5'	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:454:CFZ:H2'	1:A:455:G:C8	2.49	0.48
1:A:73:A:H2'	1:A:74:UFT:H6	1.96	0.47
1:A:143:A:H2'	1:A:144:CFZ:H6	1.95	0.47
1:A:495:CFZ:H2'	1:A:496:CFZ:H6	1.96	0.47
1:A:81:A:H2'	1:A:82:G:H8	1.78	0.47
1:A:219:A:H2'	1:A:220:CFZ:H6	1.96	0.47
1:A:407:CFZ:H2'	1:A:408:A:H8	1.78	0.47
1:A:532:G:H2'	1:A:533:A:H8	1.79	0.47
1:A:243:UFT:O4	1:A:316:A:N6	2.48	0.47
1:A:344:CFZ:H2'	1:A:345:G:C8	2.50	0.47
1:A:537:G:H2'	1:A:538:UFT:H6	1.95	0.47
1:A:265:UFT:H2'	1:A:266:G:H8	1.80	0.46
1:A:282:UFT:H2'	1:A:283:CFZ:H6	1.97	0.46
1:A:31:A:H2'	1:A:32:CFZ:H6	1.97	0.46
1:A:65:UFT:H6	1:A:65:UFT:H5'	1.98	0.46
1:A:141:G:H2'	1:A:142:A:C8	2.50	0.46
1:A:69:G:H2'	1:A:70:A:H8	1.80	0.46
1:A:157:G:O2'	1:A:158:A:H5'	2.16	0.46
1:A:186:A:H2'	1:A:187:A:H8	1.80	0.46
1:A:167:UFT:HN3	1:A:185:A:N6	2.11	0.46
1:A:133:UFT:H2'	1:A:134:UFT:H6	1.97	0.46
1:A:374:CFZ:H3'	1:A:375:A:H2'	1.96	0.46
1:A:408:A:H61	1:A:416:A:H61	1.63	0.46
1:A:304:A:H2	1:A:320:UFT:HN3	1.62	0.46
1:A:78:CFZ:H2'	1:A:79:G:H8	1.80	0.45
1:A:414:A:H2'	1:A:415:CFZ:H6	1.98	0.45
1:A:99:G:H5"	1:A:100:A:N7	2.30	0.45
1:A:287:CFZ:C2	1:A:546:G:H1	2.29	0.45
1:A:14:UFT:H2'	1:A:15:UFT:H6	1.98	0.45
1:A:68:G:H3'	1:A:69:G:H8	1.82	0.45
1:A:28:UFT:H3'	1:A:30:G:H22	1.81	0.45
1:A:127:CFZ:H2'	1:A:128:G:C8	2.51	0.45
1:A:400:UFT:H2'	1:A:401:A:C8	2.51	0.45
1:A:459:UFT:O2	1:A:464:A:N1	2.49	0.45
1:A:223:CFZ:H2'	1:A:224:G:H8	1.82	0.45
1:A:127:CFZ:H2'	1:A:128:G:H8	1.81	0.45
1:A:160:CFZ:H2'	1:A:161:A:C8	2.52	0.45
1:A:207:G:C6	1:A:338:A:N6	2.85	0.45
1:A:52:A:H2'	1:A:53:A:C8	2.51	0.45
1:A:172:A:H61	1:A:180:A:H61	1.65	0.45
1:A:332:G:O6	1:A:347:A:N6	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:A:H2'	1:A:17:G:C8	2.52	0.45
1:A:87:UFT:H2'	1:A:88:UFT:C6	2.47	0.45
1:A:109:CFZ:H2'	1:A:110:CFZ:H6	1.99	0.45
1:A:200:A:N1	1:A:337:CFZ:N4	2.65	0.45
1:A:215:UFT:F2'	1:A:216:CFZ:O4'	2.25	0.45
1:A:250:CFZ:H2'	1:A:251:CFZ:C6	2.47	0.44
1:A:354:CFZ:H2'	1:A:355:G:C8	2.52	0.44
1:A:46:G:H1	1:A:50:G:H1	1.65	0.44
1:A:97:UFT:H3'	1:A:99:G:N2	2.31	0.44
1:A:185:A:H2'	1:A:186:A:H8	1.83	0.44
1:A:191:UFT:H2'	1:A:192:G:C8	2.51	0.44
1:A:13:UFT:H2'	1:A:14:UFT:H6	1.98	0.44
1:A:322:G:H2'	1:A:323:G:H8	1.83	0.44
1:A:404:CFZ:H2'	1:A:405:G:H8	1.83	0.44
1:A:30:G:C8	1:A:31:A:C8	3.05	0.44
1:A:55:UFT:O5'	1:A:55:UFT:H6	2.17	0.44
1:A:201:A:N6	1:A:336:A:O2'	2.50	0.44
1:A:207:G:C2	1:A:208:A:C8	3.04	0.44
1:A:218:G:H2'	1:A:219:A:H8	1.82	0.44
1:A:231:G:H2'	1:A:232:A:C8	2.52	0.44
1:A:415:CFZ:H2'	1:A:416:A:C8	2.50	0.44
1:A:369:A:H2'	1:A:370:A:H8	1.81	0.44
1:A:486:G:H2'	1:A:487:CFZ:H6	2.00	0.44
1:A:37:G:O2'	1:A:261:G:H3'	2.16	0.44
1:A:74:UFT:H2'	1:A:75:CFZ:H6	1.99	0.44
1:A:251:CFZ:H2'	1:A:252:CFZ:H6	1.98	0.44
1:A:78:CFZ:H2'	1:A:79:G:C8	2.52	0.43
1:A:351:G:H2'	1:A:352:A:H8	1.83	0.43
1:A:212:UFT:H2'	1:A:213:CFZ:H6	2.00	0.43
1:A:305:G:H2'	1:A:306:A:H8	1.84	0.43
1:A:389:UFT:H2'	1:A:390:G:H8	1.83	0.43
1:A:122:G:H2'	1:A:123:G:H8	1.82	0.43
1:A:186:A:H2'	1:A:187:A:C8	2.53	0.43
1:A:318:UFT:H2'	1:A:319:UFT:O4'	2.17	0.43
1:A:463:G:H2'	1:A:464:A:O4'	2.18	0.43
1:A:344:CFZ:H2'	1:A:345:G:H8	1.83	0.43
1:A:469:G:H2'	1:A:470:UFT:H6	1.99	0.43
1:A:483:CFZ:H6	1:A:483:CFZ:O5'	2.18	0.43
1:A:211:CFZ:H2'	1:A:212:UFT:C6	2.48	0.43
1:A:259:CFZ:N4	1:A:260:G:O6	2.51	0.43
1:A:334:G:H2'	1:A:335:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:G:H2'	1:A:232:A:H8	1.84	0.43
1:A:222:A:H2'	1:A:223:CFZ:H6	2.01	0.43
1:A:433:CFZ:H2'	1:A:434:G:C8	2.54	0.43
1:A:546:G:H2'	1:A:547:A:H8	1.83	0.43
1:A:117:G:H5"	1:A:118:G:N7	2.34	0.42
1:A:237:UFT:H2'	1:A:238:G:C8	2.54	0.42
1:A:382:G:C2	1:A:383:A:C8	3.06	0.42
1:A:428:CFZ:H2'	1:A:429:CFZ:H6	2.00	0.42
1:A:501:CFZ:O5'	1:A:501:CFZ:H6	2.19	0.42
1:A:88:UFT:HN3	1:A:158:A:N6	2.16	0.42
1:A:234:UFT:H2'	1:A:235:G:C8	2.54	0.42
1:A:403:A:N6	1:A:422:G:O6	2.53	0.42
1:A:101:CFZ:H2'	1:A:102:G:H8	1.85	0.42
1:A:473:A:N6	1:A:489:G:O6	2.53	0.42
1:A:113:CFZ:HN4	1:A:116:CFZ:H1'	1.84	0.42
1:A:9:A:H61	1:A:272:UFT:HN3	1.66	0.42
1:A:12:CFZ:H2'	1:A:13:UFT:H6	2.01	0.42
1:A:141:G:O6	1:A:414:A:N6	2.53	0.42
1:A:232:A:H2'	1:A:233:G:H8	1.85	0.42
1:A:491:UFT:H2'	1:A:492:UFT:H6	2.01	0.42
1:A:21:G:O2'	1:A:22:A:O5'	2.33	0.42
1:A:390:G:H2'	1:A:391:UFT:O4'	2.19	0.42
1:A:505:G:H2'	1:A:506:CFZ:H6	2.02	0.42
1:A:162:CFZ:H2'	1:A:163:CFZ:C6	2.46	0.42
1:A:305:G:H2'	1:A:306:A:C8	2.54	0.42
1:A:347:A:H2'	1:A:348:UFT:H6	2.01	0.42
1:A:427:G:H2'	1:A:428:CFZ:H6	2.02	0.42
1:A:165:UFT:H2'	1:A:166:UFT:H6	2.01	0.41
1:A:528:UFT:HN3	1:A:530:CFZ:H4'	1.85	0.41
1:A:36:CFZ:N4	1:A:37:G:O6	2.53	0.41
1:A:42:A:H2'	1:A:43:UFT:O4'	2.21	0.41
1:A:346:CFZ:H2'	1:A:347:A:C8	2.54	0.41
1:A:472:CFZ:HN4	1:A:473:A:H62	1.68	0.41
1:A:110:CFZ:H2'	1:A:111:CFZ:H6	2.02	0.41
1:A:117:G:H3'	1:A:118:G:H8	1.85	0.41
1:A:407:CFZ:H3'	1:A:408:A:H2'	2.02	0.41
1:A:462:CFZ:H1'	1:A:463:G:C2	2.55	0.41
1:A:493:G:C2	1:A:494:A:C8	3.09	0.41
1:A:310:CFZ:H5'A	1:A:310:CFZ:H6	2.03	0.41
1:A:443:G:H2'	1:A:444:G:C8	2.52	0.41
1:A:248:G:C6	1:A:311:A:N6	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:CFZ:H2'	1:A:507:CFZ:H6	2.02	0.41
1:A:549:UFT:H2'	1:A:550:G:C8	2.56	0.41
1:A:149:A:H2'	1:A:150:G:C8	2.56	0.40
1:A:340:UFT:H2'	1:A:341:CFZ:H6	2.03	0.40
1:A:385:UFT:H2'	1:A:386:CFZ:H6	2.02	0.40
1:A:9:A:N6	1:A:272:UFT:HN3	2.20	0.40
1:A:54:A:H2'	1:A:55:UFT:H6	2.04	0.40
1:A:468:CFZ:H2'	1:A:469:G:H8	1.84	0.40
1:A:121:G:C2	1:A:122:G:C8	3.10	0.40
1:A:273:G:C2	1:A:274:A:C8	3.08	0.40
1:A:280:CFZ:H2'	1:A:281:CFZ:H6	2.03	0.40
1:A:86:G:O2'	1:A:193:A:OP2	2.27	0.40
1:A:196:A:H2'	1:A:197:G:C8	2.57	0.40
1:A:291:UFT:O4	1:A:292:A:N6	2.55	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	A	149/552 (26%)	27 (18%)	1 (0%)

All (27) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	22	A
1	A	23	A
1	A	24	G
1	A	58	G

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Mol	Chain	Res	Type
1	A	69	G
1	A	100	A
1	A	118	G
1	A	137	A
1	A	139	G
1	A	158	A
1	A	159	A
1	A	169	G
1	A	193	A
1	A	202	G
1	A	227	A
1	A	261	G
1	A	295	G
1	A	305	G
1	A	327	G
1	A	328	A
1	A	336	A
1	A	377	G
1	A	395	G
1	A	410	G
1	A	514	A
1	A	532	G
1	A	537	G

All (1) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	304	A

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

274 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	CFZ	A	32	1	18,21,22	2.49	6 (33%)	26,30,33	1.56	2 (7%)
1	UFT	A	147	1	18,21,22	2.59	9 (50%)	26,30,33	2.06	8 (30%)
1	UFT	A	178	1	18,21,22	2.63	10 (55%)	26,30,33	1.97	5 (19%)
1	CFZ	A	307	1	18,21,22	2.49	7 (38%)	26,30,33	1.29	3 (11%)
1	CFZ	A	78	1	18,21,22	2.53	7 (38%)	26,30,33	1.43	4 (15%)
1	CFZ	A	41	1	18,21,22	2.50	7 (38%)	26,30,33	1.29	3 (11%)
1	UFT	A	8	1	18,21,22	2.63	9 (50%)	26,30,33	1.97	7 (26%)
1	CFZ	A	11	1	18,21,22	2.52	7 (38%)	26,30,33	1.27	2 (7%)
1	CFZ	A	29	1	18,21,22	2.46	7 (38%)	26,30,33	1.50	3 (11%)
1	CFZ	A	162	1	18,21,22	2.54	7 (38%)	26,30,33	1.33	2 (7%)
1	CFZ	A	89	1	18,21,22	2.54	7 (38%)	26,30,33	1.15	2 (7%)
1	CFZ	A	279	1	18,21,22	2.54	7 (38%)	26,30,33	1.27	2 (7%)
1	UFT	A	348	1	18,21,22	2.64	10 (55%)	26,30,33	1.87	7 (26%)
1	CFZ	A	483	1	18,21,22	2.53	7 (38%)	26,30,33	1.19	2 (7%)
1	UFT	A	492	1	18,21,22	2.59	10 (55%)	26,30,33	1.98	7 (26%)
1	CFZ	A	125	1	18,21,22	2.52	7 (38%)	26,30,33	1.25	2 (7%)
1	CFZ	A	436	1	18,21,22	2.53	7 (38%)	26,30,33	1.23	2 (7%)
1	CFZ	A	495	1	18,21,22	2.54	7 (38%)	26,30,33	1.20	2 (7%)
1	CFZ	A	64	1	18,21,22	2.50	7 (38%)	26,30,33	1.19	2 (7%)
1	UFT	A	504	1	18,21,22	2.58	9 (50%)	26,30,33	2.07	7 (26%)
1	CFZ	A	177	1	18,21,22	2.51	7 (38%)	26,30,33	1.34	3 (11%)
1	CFZ	A	429	1	18,21,22	2.50	7 (38%)	26,30,33	1.48	3 (11%)
1	CFZ	A	301	1	18,21,22	2.52	7 (38%)	26,30,33	1.31	2 (7%)
1	CFZ	A	49	1	18,21,22	2.47	7 (38%)	26,30,33	1.51	3 (11%)
1	CFZ	A	506	1	18,21,22	2.55	7 (38%)	26,30,33	1.17	3 (11%)
1	CFZ	A	98	1	18,21,22	2.47	7 (38%)	26,30,33	1.47	3 (11%)
1	UFT	A	400	1	18,21,22	2.62	9 (50%)	26,30,33	1.85	5 (19%)
1	UFT	A	340	1	18,21,22	2.59	9 (50%)	26,30,33	2.01	7 (26%)
1	UFT	A	85	1	18,21,22	2.62	10 (55%)	26,30,33	1.99	6 (23%)
1	CFZ	A	93	1	18,21,22	2.51	7 (38%)	26,30,33	1.32	3 (11%)
1	CFZ	A	84	1	18,21,22	2.54	7 (38%)	26,30,33	1.23	2 (7%)
1	UFT	A	119	1	18,21,22	2.63	9 (50%)	26,30,33	1.79	6 (23%)
1	UFT	A	366	1	18,21,22	2.60	9 (50%)	26,30,33	1.87	5 (19%)
1	UFT	A	156	1	18,21,22	2.62	10 (55%)	26,30,33	1.97	7 (26%)
1	CFZ	A	160	1	18,21,22	2.53	7 (38%)	26,30,33	1.30	3 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	234	1	18,21,22	2.61	9 (50%)	26,30,33	1.86	5 (19%)
1	CFZ	A	364	1	18,21,22	2.51	7 (38%)	26,30,33	1.28	3 (11%)
1	UFT	A	406	1	18,21,22	2.61	10 (55%)	26,30,33	2.05	6 (23%)
1	CFZ	A	341	1	18,21,22	2.49	7 (38%)	26,30,33	1.30	3 (11%)
1	CFZ	A	415	1	18,21,22	2.52	7 (38%)	26,30,33	1.17	2 (7%)
1	UFT	A	470	1	18,21,22	2.62	10 (55%)	26,30,33	1.89	7 (26%)
1	CFZ	A	225	1	18,21,22	2.49	7 (38%)	26,30,33	1.42	3 (11%)
1	CFZ	A	522	1	18,21,22	2.52	7 (38%)	26,30,33	1.23	2 (7%)
1	UFT	A	535	1	18,21,22	2.63	9 (50%)	26,30,33	1.79	6 (23%)
1	UFT	A	39	1	18,21,22	2.60	9 (50%)	26,30,33	1.98	7 (26%)
1	CFZ	A	462	1	18,21,22	2.45	7 (38%)	26,30,33	1.39	2 (7%)
1	CFZ	A	490	1	18,21,22	2.51	7 (38%)	26,30,33	1.38	2 (7%)
1	UFT	A	63	1	18,21,22	2.60	9 (50%)	26,30,33	1.93	7 (26%)
1	UFT	A	391	1	18,21,22	2.62	10 (55%)	26,30,33	2.06	7 (26%)
1	UFT	A	96	1	18,21,22	2.59	10 (55%)	26,30,33	1.93	7 (26%)
1	UFT	A	523	1	18,21,22	2.61	10 (55%)	26,30,33	1.93	7 (26%)
1	UFT	A	184	1	18,21,22	2.61	10 (55%)	26,30,33	1.87	5 (19%)
1	CFZ	A	264	1	18,21,22	2.53	7 (38%)	26,30,33	1.36	3 (11%)
1	CFZ	A	342	1	18,21,22	2.50	7 (38%)	26,30,33	1.21	3 (11%)
1	CFZ	A	310	1	18,21,22	2.51	7 (38%)	26,30,33	1.25	3 (11%)
1	UFT	A	272	1	18,21,22	2.62	10 (55%)	26,30,33	1.90	7 (26%)
1	CFZ	A	278	1	18,21,22	2.54	7 (38%)	26,30,33	1.22	2 (7%)
1	CFZ	A	502	1	18,21,22	2.51	7 (38%)	26,30,33	1.23	3 (11%)
1	UFT	A	291	1	18,21,22	2.62	9 (50%)	26,30,33	1.82	5 (19%)
1	CFZ	A	146	1	18,21,22	2.53	7 (38%)	26,30,33	1.21	2 (7%)
1	UFT	A	47	1	18,21,22	2.61	9 (50%)	26,30,33	2.09	7 (26%)
1	CFZ	A	259	1	18,21,22	2.49	7 (38%)	26,30,33	1.34	4 (15%)
1	CFZ	A	76	1	18,21,22	2.53	7 (38%)	26,30,33	1.17	2 (7%)
1	UFT	A	320	1	18,21,22	2.58	9 (50%)	26,30,33	1.92	6 (23%)
1	CFZ	A	435	1	18,21,22	2.52	7 (38%)	26,30,33	1.25	2 (7%)
1	CFZ	A	454	1	18,21,22	2.53	7 (38%)	26,30,33	1.19	2 (7%)
1	UFT	A	498	1	18,21,22	2.58	10 (55%)	26,30,33	2.15	7 (26%)
1	CFZ	A	344	1	18,21,22	2.51	7 (38%)	26,30,33	1.22	3 (11%)
1	UFT	A	509	1	18,21,22	2.62	10 (55%)	26,30,33	1.97	6 (23%)
1	UFT	A	480	1	18,21,22	2.55	10 (55%)	26,30,33	2.10	8 (30%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	130	1	18,21,22	2.62	9 (50%)	26,30,33	1.91	6 (23%)
1	CFZ	A	467	1	18,21,22	2.53	7 (38%)	26,30,33	1.28	2 (7%)
1	UFT	A	34	1	18,21,22	2.59	9 (50%)	26,30,33	1.98	7 (26%)
1	UFT	A	451	1	18,21,22	2.59	9 (50%)	26,30,33	1.70	6 (23%)
1	UFT	A	488	1	18,21,22	2.61	10 (55%)	26,30,33	1.92	6 (23%)
1	UFT	A	358	1	18,21,22	2.63	9 (50%)	26,30,33	2.01	6 (23%)
1	CFZ	A	209	1	18,21,22	2.53	7 (38%)	26,30,33	1.28	2 (7%)
1	UFT	A	175	1	18,21,22	2.60	9 (50%)	26,30,33	1.85	6 (23%)
1	CFZ	A	333	1	18,21,22	2.46	7 (38%)	26,30,33	1.51	3 (11%)
1	CFZ	A	512	1	18,21,22	2.47	7 (38%)	26,30,33	1.50	3 (11%)
1	CFZ	A	281	1	18,21,22	2.52	7 (38%)	26,30,33	1.29	2 (7%)
1	CFZ	A	109	1	18,21,22	2.51	7 (38%)	26,30,33	1.24	2 (7%)
1	CFZ	A	448	1	18,21,22	2.51	7 (38%)	26,30,33	1.23	3 (11%)
1	UFT	A	166	1	18,21,22	2.64	10 (55%)	26,30,33	1.99	6 (23%)
1	UFT	A	460	1	18,21,22	2.57	10 (55%)	26,30,33	2.01	6 (23%)
1	UFT	A	339	1	18,21,22	2.57	9 (50%)	26,30,33	1.89	7 (26%)
1	UFT	A	285	1	18,21,22	2.60	9 (50%)	26,30,33	1.91	7 (26%)
1	UFT	A	165	1	18,21,22	2.63	10 (55%)	26,30,33	1.97	7 (26%)
1	CFZ	A	257	1	18,21,22	2.50	7 (38%)	26,30,33	1.41	2 (7%)
1	UFT	A	114	1	18,21,22	2.58	9 (50%)	26,30,33	1.96	7 (26%)
1	CFZ	A	518	1	18,21,22	2.53	7 (38%)	26,30,33	1.26	3 (11%)
1	UFT	A	140	1	18,21,22	2.59	9 (50%)	26,30,33	1.86	6 (23%)
1	CFZ	A	67	1	18,21,22	2.49	7 (38%)	26,30,33	1.45	3 (11%)
1	UFT	A	65	1	18,21,22	2.55	10 (55%)	26,30,33	2.17	8 (30%)
1	UFT	A	212	1	18,21,22	2.62	10 (55%)	26,30,33	1.99	7 (26%)
1	UFT	A	243	1	18,21,22	2.61	9 (50%)	26,30,33	2.02	8 (30%)
1	UFT	A	48	1	18,21,22	2.56	9 (50%)	26,30,33	2.02	8 (30%)
1	UFT	A	412	1	18,21,22	2.61	10 (55%)	26,30,33	1.89	7 (26%)
1	UFT	A	74	1	18,21,22	2.63	9 (50%)	26,30,33	1.80	6 (23%)
1	CFZ	A	255	1	18,21,22	2.51	7 (38%)	26,30,33	1.28	3 (11%)
1	CFZ	A	527	1	18,21,22	2.52	7 (38%)	26,30,33	1.19	2 (7%)
1	CFZ	A	302	1	18,21,22	2.51	7 (38%)	26,30,33	1.39	2 (7%)
1	UFT	A	411	1	18,21,22	2.61	10 (55%)	26,30,33	1.94	7 (26%)
1	UFT	A	477	1	18,21,22	2.63	10 (55%)	26,30,33	2.00	5 (19%)
1	UFT	A	80	1	18,21,22	2.62	9 (50%)	26,30,33	1.77	5 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	357	1	18,21,22	2.63	10 (55%)	26,30,33	1.77	5 (19%)
1	CFZ	A	437	1	18,21,22	2.54	7 (38%)	26,30,33	1.28	2 (7%)
1	CFZ	A	500	1	18,21,22	2.45	7 (38%)	26,30,33	1.39	2 (7%)
1	CFZ	A	216	1	18,21,22	2.52	7 (38%)	26,30,33	1.13	2 (7%)
1	CFZ	A	252	1	18,21,22	2.49	7 (38%)	26,30,33	1.38	3 (11%)
1	UFT	A	465	1	18,21,22	2.61	9 (50%)	26,30,33	1.95	7 (26%)
1	CFZ	A	313	1	18,21,22	2.51	7 (38%)	26,30,33	1.54	2 (7%)
1	CFZ	A	354	1	18,21,22	2.53	7 (38%)	26,30,33	1.18	1 (3%)
1	CFZ	A	475	1	18,21,22	2.51	7 (38%)	26,30,33	1.22	3 (11%)
1	CFZ	A	501	1	18,21,22	2.52	7 (38%)	26,30,33	1.20	3 (11%)
1	CFZ	A	229	1	18,21,22	2.50	7 (38%)	26,30,33	1.47	3 (11%)
1	CFZ	A	246	1	18,21,22	2.54	7 (38%)	26,30,33	1.39	3 (11%)
1	CFZ	A	440	1	18,21,22	2.47	7 (38%)	26,30,33	1.31	2 (7%)
1	CFZ	A	297	1	18,21,22	2.47	7 (38%)	26,30,33	1.51	3 (11%)
1	CFZ	A	413	1	18,21,22	2.52	7 (38%)	26,30,33	1.19	3 (11%)
1	CFZ	A	10	1	18,21,22	2.51	7 (38%)	26,30,33	1.21	2 (7%)
1	CFZ	A	75	1	18,21,22	2.52	6 (33%)	26,30,33	1.24	3 (11%)
1	UFT	A	206	1	18,21,22	2.64	9 (50%)	26,30,33	1.97	5 (19%)
1	UFT	A	151	1	18,21,22	2.61	10 (55%)	26,30,33	1.84	7 (26%)
1	UFT	A	258	1	18,21,22	2.56	9 (50%)	26,30,33	1.86	8 (30%)
1	CFZ	A	472	1	18,21,22	2.51	7 (38%)	26,30,33	1.25	1 (3%)
1	CFZ	A	457	1	18,21,22	2.53	7 (38%)	26,30,33	1.21	1 (3%)
1	CFZ	A	101	1	18,21,22	2.50	7 (38%)	26,30,33	1.15	3 (11%)
1	CFZ	A	20	1	18,21,22	2.49	7 (38%)	26,30,33	1.44	3 (11%)
1	UFT	A	55	1	18,21,22	2.60	10 (55%)	26,30,33	1.99	8 (30%)
1	UFT	A	254	1	18,21,22	2.58	9 (50%)	26,30,33	1.85	6 (23%)
1	CFZ	A	380	1	18,21,22	2.53	7 (38%)	26,30,33	1.15	2 (7%)
1	CFZ	A	386	1	18,21,22	2.53	7 (38%)	26,30,33	1.29	3 (11%)
1	UFT	A	491	1	18,21,22	2.63	9 (50%)	26,30,33	1.95	7 (26%)
1	UFT	A	167	1	18,21,22	2.62	9 (50%)	26,30,33	1.91	5 (19%)
1	UFT	A	541	1	18,21,22	2.63	10 (55%)	26,30,33	1.93	6 (23%)
1	CFZ	A	539	1	18,21,22	2.51	6 (33%)	26,30,33	1.35	3 (11%)
1	CFZ	A	174	1	18,21,22	2.53	7 (38%)	26,30,33	1.27	3 (11%)
1	UFT	A	540	1	18,21,22	2.63	10 (55%)	26,30,33	2.02	7 (26%)
1	UFT	A	133	1	18,21,22	2.62	10 (55%)	26,30,33	1.91	7 (26%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	388	1	18,21,22	2.61	10 (55%)	26,30,33	1.95	8 (30%)
1	UFT	A	83	1	18,21,22	2.63	9 (50%)	26,30,33	1.88	5 (19%)
1	UFT	A	194	1	18,21,22	2.60	10 (55%)	26,30,33	2.04	6 (23%)
1	UFT	A	398	1	18,21,22	2.57	10 (55%)	26,30,33	2.01	7 (26%)
1	CFZ	A	12	1	18,21,22	2.52	7 (38%)	26,30,33	1.29	3 (11%)
1	CFZ	A	33	1	18,21,22	2.47	7 (38%)	26,30,33	1.55	2 (7%)
1	UFT	A	319	1	18,21,22	2.59	10 (55%)	26,30,33	1.88	7 (26%)
1	CFZ	A	407	1	18,21,22	2.49	7 (38%)	26,30,33	1.33	2 (7%)
1	CFZ	A	445	1	18,21,22	2.47	7 (38%)	26,30,33	1.51	3 (11%)
1	UFT	A	399	1	18,21,22	2.66	10 (55%)	26,30,33	1.92	7 (26%)
1	CFZ	A	374	1	18,21,22	2.51	7 (38%)	26,30,33	1.19	2 (7%)
1	UFT	A	528	1	18,21,22	2.63	9 (50%)	26,30,33	1.86	5 (19%)
1	CFZ	A	104	1	18,21,22	2.54	7 (38%)	26,30,33	1.27	2 (7%)
1	CFZ	A	110	1	18,21,22	2.51	7 (38%)	26,30,33	1.23	3 (11%)
1	UFT	A	510	1	18,21,22	2.57	9 (50%)	26,30,33	1.95	6 (23%)
1	UFT	A	45	1	18,21,22	2.66	10 (55%)	26,30,33	1.89	5 (19%)
1	UFT	A	265	1	18,21,22	2.59	9 (50%)	26,30,33	1.84	7 (26%)
1	UFT	A	423	1	18,21,22	2.64	10 (55%)	26,30,33	1.79	6 (23%)
1	UFT	A	134	1	18,21,22	2.62	10 (55%)	26,30,33	2.02	7 (26%)
1	UFT	A	115	1	18,21,22	2.56	9 (50%)	26,30,33	1.96	6 (23%)
1	CFZ	A	325	1	18,21,22	2.51	7 (38%)	26,30,33	1.30	3 (11%)
1	CFZ	A	298	1	18,21,22	2.54	7 (38%)	26,30,33	1.25	2 (7%)
1	UFT	A	228	1	18,21,22	2.60	9 (50%)	26,30,33	1.74	6 (23%)
1	CFZ	A	132	1	18,21,22	2.51	7 (38%)	26,30,33	1.27	3 (11%)
1	CFZ	A	111	1	18,21,22	2.51	7 (38%)	26,30,33	1.23	3 (11%)
1	CFZ	A	154	1	18,21,22	2.48	7 (38%)	26,30,33	1.36	4 (15%)
1	UFT	A	438	1	18,21,22	2.61	9 (50%)	26,30,33	1.92	7 (26%)
1	UFT	A	14	1	18,21,22	2.63	10 (55%)	26,30,33	1.91	7 (26%)
1	UFT	A	439	1	18,21,22	2.58	10 (55%)	26,30,33	2.04	8 (30%)
1	UFT	A	171	1	18,21,22	2.57	10 (55%)	26,30,33	2.08	8 (30%)
1	CFZ	A	468	1	18,21,22	2.52	7 (38%)	26,30,33	1.21	3 (11%)
1	UFT	A	215	1	18,21,22	2.63	10 (55%)	26,30,33	2.06	7 (26%)
1	CFZ	A	179	1	18,21,22	2.53	7 (38%)	26,30,33	1.27	1 (3%)
1	CFZ	A	476	1	18,21,22	2.53	7 (38%)	26,30,33	1.22	2 (7%)
1	UFT	A	60	1	18,21,22	2.61	9 (50%)	26,30,33	1.83	5 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	221	1	18,21,22	2.62	9 (50%)	26,30,33	1.86	6 (23%)
1	UFT	A	88	1	18,21,22	2.56	9 (50%)	26,30,33	1.89	7 (26%)
1	UFT	A	15	1	18,21,22	2.64	10 (55%)	26,30,33	2.00	6 (23%)
1	UFT	A	247	1	18,21,22	2.67	10 (55%)	26,30,33	1.97	5 (19%)
1	CFZ	A	51	1	18,21,22	2.51	7 (38%)	26,30,33	1.31	4 (15%)
1	CFZ	A	402	1	18,21,22	2.53	7 (38%)	26,30,33	1.27	1 (3%)
1	UFT	A	28	1	18,21,22	2.61	10 (55%)	26,30,33	1.88	7 (26%)
1	CFZ	A	349	1	18,21,22	2.52	7 (38%)	26,30,33	1.18	3 (11%)
1	UFT	A	318	1	18,21,22	2.62	10 (55%)	26,30,33	2.05	7 (26%)
1	UFT	A	71	1	18,21,22	2.61	9 (50%)	26,30,33	1.79	6 (23%)
1	UFT	A	499	1	18,21,22	2.59	10 (55%)	26,30,33	2.20	10 (38%)
1	CFZ	A	289	1	18,21,22	2.53	7 (38%)	26,30,33	1.34	2 (7%)
1	CFZ	A	452	1	18,21,22	2.48	7 (38%)	26,30,33	1.38	2 (7%)
1	CFZ	A	530	1	18,21,22	2.46	7 (38%)	26,30,33	1.40	4 (15%)
1	UFT	A	421	1	18,21,22	2.61	10 (55%)	26,30,33	1.89	7 (26%)
1	CFZ	A	507	1	18,21,22	2.52	7 (38%)	26,30,33	1.22	3 (11%)
1	UFT	A	153	1	18,21,22	2.62	10 (55%)	26,30,33	1.96	7 (26%)
1	CFZ	A	116	1	18,21,22	2.48	7 (38%)	26,30,33	1.39	2 (7%)
1	CFZ	A	223	1	18,21,22	2.53	7 (38%)	26,30,33	1.24	2 (7%)
1	UFT	A	324	1	18,21,22	2.58	10 (55%)	26,30,33	2.06	7 (26%)
1	CFZ	A	404	1	18,21,22	2.48	7 (38%)	26,30,33	1.45	2 (7%)
1	UFT	A	450	1	18,21,22	2.61	10 (55%)	26,30,33	1.91	6 (23%)
1	CFZ	A	40	1	18,21,22	2.49	7 (38%)	26,30,33	1.39	2 (7%)
1	UFT	A	35	1	18,21,22	2.59	9 (50%)	26,30,33	1.88	8 (30%)
1	CFZ	A	108	1	18,21,22	2.53	7 (38%)	26,30,33	1.20	2 (7%)
1	UFT	A	188	1	18,21,22	2.60	10 (55%)	26,30,33	1.91	8 (30%)
1	CFZ	A	368	1	18,21,22	2.53	7 (38%)	26,30,33	1.29	2 (7%)
1	CFZ	A	508	1	18,21,22	2.52	7 (38%)	26,30,33	1.30	3 (11%)
1	CFZ	A	251	1	18,21,22	2.53	7 (38%)	26,30,33	1.23	2 (7%)
1	CFZ	A	183	1	18,21,22	2.51	7 (38%)	26,30,33	1.20	3 (11%)
1	UFT	A	389	1	18,21,22	2.62	10 (55%)	26,30,33	1.93	7 (26%)
1	UFT	A	87	1	18,21,22	2.59	9 (50%)	26,30,33	1.99	6 (23%)
1	UFT	A	237	1	18,21,22	2.63	9 (50%)	26,30,33	1.87	6 (23%)
1	UFT	A	286	1	18,21,22	2.64	10 (55%)	26,30,33	2.06	6 (23%)
1	CFZ	A	428	1	18,21,22	2.54	7 (38%)	26,30,33	1.22	2 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	UFT	A	66	1	18,21,22	2.54	10 (55%)	26,30,33	2.07	8 (30%)
1	UFT	A	365	1	18,21,22	2.60	9 (50%)	26,30,33	1.87	7 (26%)
1	UFT	A	92	1	18,21,22	2.63	9 (50%)	26,30,33	1.86	5 (19%)
1	CFZ	A	314	1	18,21,22	2.54	7 (38%)	26,30,33	1.20	2 (7%)
1	CFZ	A	419	1	18,21,22	2.51	7 (38%)	26,30,33	1.30	3 (11%)
1	UFT	A	7	1	18,21,22	2.61	9 (50%)	26,30,33	1.80	5 (19%)
1	CFZ	A	72	1	18,21,22	2.54	7 (38%)	26,30,33	1.23	2 (7%)
1	CFZ	A	163	1	18,21,22	2.52	7 (38%)	26,30,33	1.20	3 (11%)
1	UFT	A	276	1	18,21,22	2.63	9 (50%)	26,30,33	1.83	6 (23%)
1	UFT	A	545	1	18,21,22	2.59	9 (50%)	26,30,33	2.12	7 (26%)
1	CFZ	A	487	1	18,21,22	2.53	7 (38%)	26,30,33	1.31	2 (7%)
1	UFT	A	543	1	18,21,22	2.67	9 (50%)	26,30,33	1.89	6 (23%)
1	UFT	A	18	1	18,21,22	2.64	10 (55%)	26,30,33	1.93	5 (19%)
1	UFT	A	170	1	18,21,22	2.61	10 (55%)	26,30,33	2.09	6 (23%)
1	UFT	A	350	1	18,21,22	2.63	10 (55%)	26,30,33	2.02	7 (26%)
1	UFT	A	529	1	18,21,22	2.57	10 (55%)	26,30,33	2.07	8 (30%)
1	CFZ	A	113	1	18,21,22	2.51	7 (38%)	26,30,33	1.36	2 (7%)
1	CFZ	A	250	1	18,21,22	2.53	7 (38%)	26,30,33	1.20	2 (7%)
1	UFT	A	282	1	18,21,22	2.60	9 (50%)	26,30,33	1.79	6 (23%)
1	CFZ	A	287	1	18,21,22	2.52	7 (38%)	26,30,33	1.37	2 (7%)
1	UFT	A	432	1	18,21,22	2.60	9 (50%)	26,30,33	1.89	7 (26%)
1	CFZ	A	6	1	18,21,22	2.53	7 (38%)	26,30,33	1.26	3 (11%)
1	UFT	A	97	1	18,21,22	2.58	9 (50%)	26,30,33	2.00	6 (23%)
1	CFZ	A	127	1	18,21,22	2.54	7 (38%)	26,30,33	1.18	1 (3%)
1	CFZ	A	220	1	18,21,22	2.53	7 (38%)	26,30,33	1.33	2 (7%)
1	CFZ	A	144	1	18,21,22	2.53	7 (38%)	26,30,33	1.19	2 (7%)
1	CFZ	A	503	1	18,21,22	2.48	7 (38%)	26,30,33	1.41	3 (11%)
1	CFZ	A	496	1	18,21,22	2.51	7 (38%)	26,30,33	1.39	4 (15%)
1	UFT	A	26	1	18,21,22	2.64	10 (55%)	26,30,33	2.06	6 (23%)
1	CFZ	A	230	1	18,21,22	2.53	7 (38%)	26,30,33	1.33	2 (7%)
1	CFZ	A	433	1	18,21,22	2.51	7 (38%)	26,30,33	1.30	3 (11%)
1	UFT	A	44	1	18,21,22	2.63	10 (55%)	26,30,33	1.90	6 (23%)
1	UFT	A	459	1	18,21,22	2.64	10 (55%)	26,30,33	1.87	5 (19%)
1	CFZ	A	525	1	18,21,22	2.51	7 (38%)	26,30,33	1.25	3 (11%)
1	CFZ	A	210	1	18,21,22	2.49	7 (38%)	26,30,33	1.41	4 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	CFZ	A	213	1	18,21,22	2.51	7 (38%)	26,30,33	1.25	3 (11%)
1	CFZ	A	346	1	18,21,22	2.52	7 (38%)	26,30,33	1.26	3 (11%)
1	UFT	A	479	1	18,21,22	2.58	9 (50%)	26,30,33	2.03	8 (30%)
1	UFT	A	105	1	18,21,22	2.57	9 (50%)	26,30,33	1.98	7 (26%)
1	UFT	A	27	1	18,21,22	2.55	9 (50%)	26,30,33	2.07	7 (26%)
1	CFZ	A	124	1	18,21,22	2.52	7 (38%)	26,30,33	1.27	3 (11%)
1	UFT	A	331	1	18,21,22	2.60	9 (50%)	26,30,33	1.77	6 (23%)
1	CFZ	A	430	1	18,21,22	2.51	7 (38%)	26,30,33	1.23	2 (7%)
1	CFZ	A	280	1	18,21,22	2.53	7 (38%)	26,30,33	1.32	3 (11%)
1	CFZ	A	211	1	18,21,22	2.53	7 (38%)	26,30,33	1.23	1 (3%)
1	UFT	A	526	1	18,21,22	2.64	10 (55%)	26,30,33	1.98	5 (19%)
1	CFZ	A	387	1	18,21,22	2.50	7 (38%)	26,30,33	1.42	3 (11%)
1	UFT	A	538	1	18,21,22	2.58	9 (50%)	26,30,33	1.83	7 (26%)
1	UFT	A	191	1	18,21,22	2.60	10 (55%)	26,30,33	2.01	7 (26%)
1	UFT	A	461	1	18,21,22	2.56	10 (55%)	26,30,33	2.08	8 (30%)
1	CFZ	A	303	1	18,21,22	2.53	7 (38%)	26,30,33	1.24	3 (11%)
1	CFZ	A	4	1	18,21,22	2.53	7 (38%)	26,30,33	1.23	1 (3%)
1	CFZ	A	481	1	18,21,22	2.47	7 (38%)	26,30,33	1.20	2 (7%)
1	UFT	A	43	1	18,21,22	2.62	9 (50%)	26,30,33	1.84	5 (19%)
1	CFZ	A	283	1	18,21,22	2.52	7 (38%)	26,30,33	1.24	3 (11%)
1	UFT	A	385	1	18,21,22	2.61	9 (50%)	26,30,33	1.95	7 (26%)
1	CFZ	A	36	1	18,21,22	2.46	7 (38%)	26,30,33	1.18	2 (7%)
1	CFZ	A	397	1	18,21,22	2.52	7 (38%)	26,30,33	1.21	2 (7%)
1	UFT	A	549	1	18,21,22	2.61	10 (55%)	26,30,33	1.87	7 (26%)
1	UFT	A	95	1	18,21,22	2.57	10 (55%)	26,30,33	2.13	7 (26%)
1	CFZ	A	262	1	18,21,22	2.51	7 (38%)	26,30,33	1.30	3 (11%)
1	CFZ	A	337	1	18,21,22	2.50	7 (38%)	26,30,33	1.24	3 (11%)
1	UFT	A	511	1	18,21,22	2.57	9 (50%)	26,30,33	1.98	6 (23%)
1	UFT	A	13	1	18,21,22	2.63	10 (55%)	26,30,33	1.90	6 (23%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	32	1	-	0/7/25/26	0/2/2/2
1	UFT	A	147	1	-	0/7/25/26	0/2/2/2
1	UFT	A	178	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	307	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	78	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	41	1	-	0/7/25/26	0/2/2/2
1	UFT	A	8	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	11	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	29	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	162	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	89	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	279	1	-	0/7/25/26	0/2/2/2
1	UFT	A	348	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	483	1	-	2/7/25/26	0/2/2/2
1	UFT	A	492	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	125	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	436	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	495	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	64	1	-	0/7/25/26	0/2/2/2
1	UFT	A	504	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	177	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	429	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	301	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	49	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	506	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	98	1	-	2/7/25/26	0/2/2/2
1	UFT	A	400	1	-	0/7/25/26	0/2/2/2
1	UFT	A	340	1	-	2/7/25/26	0/2/2/2
1	UFT	A	85	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	93	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	84	1	-	0/7/25/26	0/2/2/2
1	UFT	A	119	1	-	0/7/25/26	0/2/2/2
1	UFT	A	366	1	-	0/7/25/26	0/2/2/2
1	UFT	A	156	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	160	1	-	0/7/25/26	0/2/2/2
1	UFT	A	234	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	364	1	-	0/7/25/26	0/2/2/2
1	UFT	A	406	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	341	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	415	1	-	0/7/25/26	0/2/2/2
1	UFT	A	470	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	225	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	522	1	-	0/7/25/26	0/2/2/2
1	UFT	A	535	1	-	0/7/25/26	0/2/2/2
1	UFT	A	39	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	462	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	490	1	-	0/7/25/26	0/2/2/2
1	UFT	A	63	1	-	0/7/25/26	0/2/2/2
1	UFT	A	391	1	-	3/7/25/26	0/2/2/2
1	UFT	A	96	1	-	0/7/25/26	0/2/2/2
1	UFT	A	523	1	-	0/7/25/26	0/2/2/2
1	UFT	A	184	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	264	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	342	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	310	1	-	1/7/25/26	0/2/2/2
1	UFT	A	272	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	278	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	502	1	-	0/7/25/26	0/2/2/2
1	UFT	A	291	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	146	1	-	0/7/25/26	0/2/2/2
1	UFT	A	47	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	259	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	76	1	-	0/7/25/26	0/2/2/2
1	UFT	A	320	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	435	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	454	1	-	0/7/25/26	0/2/2/2
1	UFT	A	498	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	344	1	-	0/7/25/26	0/2/2/2
1	UFT	A	509	1	-	2/7/25/26	0/2/2/2
1	UFT	A	480	1	-	3/7/25/26	0/2/2/2
1	UFT	A	130	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	467	1	-	0/7/25/26	0/2/2/2
1	UFT	A	34	1	-	2/7/25/26	0/2/2/2
1	UFT	A	451	1	-	0/7/25/26	0/2/2/2
1	UFT	A	488	1	-	0/7/25/26	0/2/2/2
1	UFT	A	358	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	209	1	-	0/7/25/26	0/2/2/2
1	UFT	A	175	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	333	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	512	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	281	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	109	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	448	1	-	0/7/25/26	0/2/2/2
1	UFT	A	166	1	-	0/7/25/26	0/2/2/2
1	UFT	A	460	1	-	2/7/25/26	0/2/2/2
1	UFT	A	339	1	-	0/7/25/26	0/2/2/2
1	UFT	A	285	1	-	0/7/25/26	0/2/2/2
1	UFT	A	165	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	257	1	-	0/7/25/26	0/2/2/2
1	UFT	A	114	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	518	1	-	0/7/25/26	0/2/2/2
1	UFT	A	140	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	67	1	-	0/7/25/26	0/2/2/2
1	UFT	A	65	1	-	1/7/25/26	0/2/2/2
1	UFT	A	212	1	-	0/7/25/26	0/2/2/2
1	UFT	A	243	1	-	0/7/25/26	0/2/2/2
1	UFT	A	48	1	-	2/7/25/26	0/2/2/2
1	UFT	A	412	1	-	0/7/25/26	0/2/2/2
1	UFT	A	74	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	255	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	527	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	302	1	-	1/7/25/26	0/2/2/2
1	UFT	A	411	1	-	1/7/25/26	0/2/2/2
1	UFT	A	477	1	-	0/7/25/26	0/2/2/2
1	UFT	A	80	1	-	2/7/25/26	0/2/2/2
1	UFT	A	357	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	437	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	500	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	216	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	252	1	-	0/7/25/26	0/2/2/2
1	UFT	A	465	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	313	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	354	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	475	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	501	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	229	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	246	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	440	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	297	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	413	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	10	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	75	1	-	0/7/25/26	0/2/2/2
1	UFT	A	206	1	-	1/7/25/26	0/2/2/2
1	UFT	A	151	1	-	0/7/25/26	0/2/2/2
1	UFT	A	258	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	472	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	457	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	101	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	20	1	-	0/7/25/26	0/2/2/2
1	UFT	A	55	1	-	0/7/25/26	0/2/2/2
1	UFT	A	254	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	380	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	386	1	-	0/7/25/26	0/2/2/2
1	UFT	A	491	1	-	0/7/25/26	0/2/2/2
1	UFT	A	167	1	-	0/7/25/26	0/2/2/2
1	UFT	A	541	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	539	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	174	1	-	0/7/25/26	0/2/2/2
1	UFT	A	540	1	-	0/7/25/26	0/2/2/2
1	UFT	A	133	1	-	0/7/25/26	0/2/2/2
1	UFT	A	388	1	-	0/7/25/26	0/2/2/2
1	UFT	A	83	1	-	0/7/25/26	0/2/2/2
1	UFT	A	194	1	-	2/7/25/26	0/2/2/2
1	UFT	A	398	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	12	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	33	1	-	0/7/25/26	0/2/2/2
1	UFT	A	319	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	407	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	445	1	-	0/7/25/26	0/2/2/2
1	UFT	A	399	1	-	3/7/25/26	0/2/2/2
1	CFZ	A	374	1	-	0/7/25/26	0/2/2/2
1	UFT	A	528	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	104	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	110	1	-	0/7/25/26	0/2/2/2
1	UFT	A	510	1	-	2/7/25/26	0/2/2/2
1	UFT	A	45	1	-	2/7/25/26	0/2/2/2
1	UFT	A	265	1	-	2/7/25/26	0/2/2/2
1	UFT	A	423	1	-	2/7/25/26	0/2/2/2
1	UFT	A	134	1	-	0/7/25/26	0/2/2/2
1	UFT	A	115	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	325	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	298	1	-	2/7/25/26	0/2/2/2
1	UFT	A	228	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	132	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	111	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	154	1	-	0/7/25/26	0/2/2/2
1	UFT	A	438	1	-	2/7/25/26	0/2/2/2
1	UFT	A	14	1	-	0/7/25/26	0/2/2/2
1	UFT	A	439	1	-	2/7/25/26	0/2/2/2
1	UFT	A	171	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	468	1	-	0/7/25/26	0/2/2/2
1	UFT	A	215	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	179	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	476	1	-	0/7/25/26	0/2/2/2
1	UFT	A	60	1	-	0/7/25/26	0/2/2/2
1	UFT	A	221	1	-	0/7/25/26	0/2/2/2
1	UFT	A	88	1	-	2/7/25/26	0/2/2/2
1	UFT	A	15	1	-	1/7/25/26	0/2/2/2
1	UFT	A	247	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	51	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	402	1	-	0/7/25/26	0/2/2/2
1	UFT	A	28	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	349	1	-	0/7/25/26	0/2/2/2
1	UFT	A	318	1	-	0/7/25/26	0/2/2/2
1	UFT	A	71	1	-	0/7/25/26	0/2/2/2
1	UFT	A	499	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	289	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	452	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	530	1	-	5/7/25/26	0/2/2/2
1	UFT	A	421	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	507	1	-	0/7/25/26	0/2/2/2
1	UFT	A	153	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	116	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	223	1	-	0/7/25/26	0/2/2/2
1	UFT	A	324	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	404	1	-	2/7/25/26	0/2/2/2
1	UFT	A	450	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	40	1	-	0/7/25/26	0/2/2/2
1	UFT	A	35	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	108	1	-	0/7/25/26	0/2/2/2
1	UFT	A	188	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CFZ	A	368	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	508	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	251	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	183	1	-	0/7/25/26	0/2/2/2
1	UFT	A	389	1	-	0/7/25/26	0/2/2/2
1	UFT	A	87	1	-	3/7/25/26	0/2/2/2
1	UFT	A	237	1	-	0/7/25/26	0/2/2/2
1	UFT	A	286	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	428	1	-	0/7/25/26	0/2/2/2
1	UFT	A	66	1	-	0/7/25/26	0/2/2/2
1	UFT	A	365	1	-	0/7/25/26	0/2/2/2
1	UFT	A	92	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	314	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	419	1	-	1/7/25/26	0/2/2/2
1	UFT	A	7	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	72	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	163	1	-	0/7/25/26	0/2/2/2
1	UFT	A	276	1	-	2/7/25/26	0/2/2/2
1	UFT	A	545	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	487	1	-	0/7/25/26	0/2/2/2
1	UFT	A	543	1	-	1/7/25/26	0/2/2/2
1	UFT	A	18	1	-	0/7/25/26	0/2/2/2
1	UFT	A	170	1	-	2/7/25/26	0/2/2/2
1	UFT	A	350	1	-	0/7/25/26	0/2/2/2
1	UFT	A	529	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	113	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	250	1	-	0/7/25/26	0/2/2/2
1	UFT	A	282	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	287	1	-	0/7/25/26	0/2/2/2
1	UFT	A	432	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	6	1	-	0/7/25/26	0/2/2/2
1	UFT	A	97	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	127	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	220	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	144	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	503	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	496	1	-	0/7/25/26	0/2/2/2
1	UFT	A	26	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	230	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	433	1	-	0/7/25/26	0/2/2/2
1	UFT	A	44	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	UFT	A	459	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	525	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	210	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	213	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	346	1	-	0/7/25/26	0/2/2/2
1	UFT	A	479	1	-	1/7/25/26	0/2/2/2
1	UFT	A	105	1	-	0/7/25/26	0/2/2/2
1	UFT	A	27	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	124	1	-	0/7/25/26	0/2/2/2
1	UFT	A	331	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	430	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	280	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	211	1	-	0/7/25/26	0/2/2/2
1	UFT	A	526	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	387	1	-	1/7/25/26	0/2/2/2
1	UFT	A	538	1	-	0/7/25/26	0/2/2/2
1	UFT	A	191	1	-	3/7/25/26	0/2/2/2
1	UFT	A	461	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	303	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	4	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	481	1	-	2/7/25/26	0/2/2/2
1	UFT	A	43	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	283	1	-	0/7/25/26	0/2/2/2
1	UFT	A	385	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	36	1	-	1/7/25/26	0/2/2/2
1	CFZ	A	397	1	-	0/7/25/26	0/2/2/2
1	UFT	A	549	1	-	0/7/25/26	0/2/2/2
1	UFT	A	95	1	-	2/7/25/26	0/2/2/2
1	CFZ	A	262	1	-	0/7/25/26	0/2/2/2
1	CFZ	A	337	1	-	0/7/25/26	0/2/2/2
1	UFT	A	511	1	-	2/7/25/26	0/2/2/2
1	UFT	A	13	1	-	2/7/25/26	0/2/2/2

All (2247) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	47	UFT	C2-N1	5.17	1.46	1.38
1	A	399	UFT	C2-N1	5.11	1.46	1.38
1	A	543	UFT	C2-N1	5.07	1.46	1.38
1	A	518	CFZ	C4-N4	4.98	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	385	UFT	C2-N1	4.97	1.46	1.38
1	A	78	CFZ	C4-N4	4.97	1.45	1.33
1	A	247	UFT	C2-N1	4.97	1.46	1.38
1	A	4	CFZ	C4-N4	4.96	1.45	1.33
1	A	179	CFZ	C4-N4	4.96	1.45	1.33
1	A	502	CFZ	C4-N4	4.96	1.45	1.33
1	A	49	CFZ	C4-N4	4.95	1.45	1.33
1	A	29	CFZ	C4-N4	4.95	1.45	1.33
1	A	457	CFZ	C4-N4	4.95	1.45	1.33
1	A	183	CFZ	C4-N4	4.95	1.45	1.33
1	A	289	CFZ	C4-N4	4.95	1.45	1.33
1	A	527	CFZ	C4-N4	4.95	1.45	1.33
1	A	500	CFZ	C4-N4	4.95	1.45	1.33
1	A	391	UFT	C2-N1	4.94	1.46	1.38
1	A	428	CFZ	C4-N4	4.94	1.45	1.33
1	A	51	CFZ	C4-N4	4.94	1.45	1.33
1	A	116	CFZ	C4-N4	4.94	1.45	1.33
1	A	36	CFZ	C4-N4	4.94	1.45	1.33
1	A	325	CFZ	C4-N4	4.94	1.45	1.33
1	A	475	CFZ	C4-N4	4.94	1.45	1.33
1	A	67	CFZ	C4-N4	4.93	1.45	1.33
1	A	462	CFZ	C4-N4	4.93	1.45	1.33
1	A	124	CFZ	C4-N4	4.93	1.45	1.33
1	A	530	CFZ	C4-N4	4.93	1.45	1.33
1	A	259	CFZ	C4-N4	4.93	1.45	1.33
1	A	287	CFZ	C4-N4	4.93	1.45	1.33
1	A	387	CFZ	C4-N4	4.93	1.45	1.33
1	A	476	CFZ	C4-N4	4.93	1.45	1.33
1	A	144	CFZ	C4-N4	4.93	1.45	1.33
1	A	64	CFZ	C4-N4	4.93	1.45	1.33
1	A	512	CFZ	C4-N4	4.93	1.45	1.33
1	A	252	CFZ	C4-N4	4.93	1.45	1.33
1	A	333	CFZ	C4-N4	4.92	1.45	1.33
1	A	109	CFZ	C4-N4	4.92	1.45	1.33
1	A	374	CFZ	C4-N4	4.92	1.45	1.33
1	A	280	CFZ	C4-N4	4.92	1.45	1.33
1	A	6	CFZ	C4-N4	4.92	1.45	1.33
1	A	177	CFZ	C4-N4	4.92	1.45	1.33
1	A	413	CFZ	C4-N4	4.92	1.45	1.33
1	A	481	CFZ	C4-N4	4.92	1.45	1.33
1	A	433	CFZ	C4-N4	4.92	1.45	1.33
1	A	506	CFZ	C4-N4	4.92	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	472	CFZ	C4-N4	4.91	1.45	1.33
1	A	223	CFZ	C4-N4	4.91	1.45	1.33
1	A	225	CFZ	C4-N4	4.91	1.45	1.33
1	A	98	CFZ	C4-N4	4.91	1.45	1.33
1	A	111	CFZ	C4-N4	4.91	1.45	1.33
1	A	10	CFZ	C4-N4	4.91	1.45	1.33
1	A	84	CFZ	C4-N4	4.91	1.45	1.33
1	A	40	CFZ	C4-N4	4.91	1.45	1.33
1	A	435	CFZ	C4-N4	4.91	1.45	1.33
1	A	262	CFZ	C4-N4	4.91	1.45	1.33
1	A	45	UFT	C2-N1	4.91	1.46	1.38
1	A	522	CFZ	C4-N4	4.91	1.45	1.33
1	A	246	CFZ	C4-N4	4.91	1.45	1.33
1	A	302	CFZ	C4-N4	4.91	1.45	1.33
1	A	303	CFZ	C4-N4	4.91	1.45	1.33
1	A	154	CFZ	C4-N4	4.91	1.45	1.33
1	A	467	CFZ	C4-N4	4.91	1.45	1.33
1	A	12	CFZ	C4-N4	4.91	1.45	1.33
1	A	459	UFT	C2-N1	4.90	1.46	1.38
1	A	93	CFZ	C4-N4	4.90	1.45	1.33
1	A	251	CFZ	C4-N4	4.90	1.45	1.33
1	A	495	CFZ	C4-N4	4.90	1.45	1.33
1	A	437	CFZ	C4-N4	4.90	1.45	1.33
1	A	279	CFZ	C4-N4	4.90	1.45	1.33
1	A	440	CFZ	C4-N4	4.90	1.45	1.33
1	A	255	CFZ	C4-N4	4.90	1.45	1.33
1	A	507	CFZ	C4-N4	4.90	1.45	1.33
1	A	448	CFZ	C4-N4	4.90	1.45	1.33
1	A	344	CFZ	C4-N4	4.90	1.45	1.33
1	A	402	CFZ	C4-N4	4.90	1.45	1.33
1	A	342	CFZ	C4-N4	4.90	1.45	1.33
1	A	429	CFZ	C4-N4	4.90	1.45	1.33
1	A	108	CFZ	C4-N4	4.90	1.45	1.33
1	A	419	CFZ	C4-N4	4.90	1.45	1.33
1	A	160	CFZ	C4-N4	4.89	1.45	1.33
1	A	468	CFZ	C4-N4	4.89	1.45	1.33
1	A	110	CFZ	C4-N4	4.89	1.45	1.33
1	A	436	CFZ	C4-N4	4.89	1.45	1.33
1	A	76	CFZ	C4-N4	4.89	1.45	1.33
1	A	508	CFZ	C4-N4	4.89	1.45	1.33
1	A	127	CFZ	C4-N4	4.89	1.45	1.33
1	A	301	CFZ	C4-N4	4.89	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	397	CFZ	C4-N4	4.89	1.45	1.33
1	A	415	CFZ	C4-N4	4.89	1.45	1.33
1	A	354	CFZ	C4-N4	4.88	1.45	1.33
1	A	525	CFZ	C4-N4	4.88	1.45	1.33
1	A	310	CFZ	C4-N4	4.88	1.45	1.33
1	A	39	UFT	C2-N1	4.88	1.46	1.38
1	A	74	UFT	C2-N1	4.88	1.46	1.38
1	A	213	CFZ	C4-N4	4.88	1.45	1.33
1	A	283	CFZ	C4-N4	4.88	1.45	1.33
1	A	490	CFZ	C4-N4	4.88	1.45	1.33
1	A	368	CFZ	C4-N4	4.88	1.45	1.33
1	A	307	CFZ	C4-N4	4.88	1.45	1.33
1	A	114	UFT	C2-N1	4.88	1.46	1.38
1	A	349	CFZ	C4-N4	4.88	1.45	1.33
1	A	11	CFZ	C4-N4	4.88	1.45	1.33
1	A	146	CFZ	C4-N4	4.88	1.45	1.33
1	A	454	CFZ	C4-N4	4.87	1.45	1.33
1	A	319	UFT	C2-N1	4.87	1.46	1.38
1	A	229	CFZ	C4-N4	4.87	1.45	1.33
1	A	503	CFZ	C4-N4	4.87	1.45	1.33
1	A	89	CFZ	C4-N4	4.87	1.45	1.33
1	A	452	CFZ	C4-N4	4.87	1.45	1.33
1	A	206	UFT	C2-N1	4.87	1.46	1.38
1	A	364	CFZ	C4-N4	4.87	1.45	1.33
1	A	194	UFT	C2-N1	4.86	1.46	1.38
1	A	41	CFZ	C4-N4	4.86	1.45	1.33
1	A	162	CFZ	C4-N4	4.86	1.45	1.33
1	A	346	CFZ	C4-N4	4.86	1.45	1.33
1	A	423	UFT	C2-N1	4.86	1.46	1.38
1	A	487	CFZ	C4-N4	4.86	1.45	1.33
1	A	501	CFZ	C4-N4	4.86	1.45	1.33
1	A	407	CFZ	C4-N4	4.86	1.45	1.33
1	A	215	UFT	C2-N1	4.86	1.46	1.38
1	A	113	CFZ	C4-N4	4.86	1.45	1.33
1	A	210	CFZ	C4-N4	4.86	1.45	1.33
1	A	510	UFT	C2-N1	4.86	1.46	1.38
1	A	13	UFT	C2-N1	4.85	1.46	1.38
1	A	174	CFZ	C4-N4	4.85	1.45	1.33
1	A	216	CFZ	C4-N4	4.85	1.45	1.33
1	A	20	CFZ	C4-N4	4.85	1.45	1.33
1	A	496	CFZ	C4-N4	4.85	1.45	1.33
1	A	483	CFZ	C4-N4	4.85	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	337	CFZ	C4-N4	4.84	1.45	1.33
1	A	125	CFZ	C4-N4	4.84	1.45	1.33
1	A	220	CFZ	C4-N4	4.84	1.45	1.33
1	A	119	UFT	C2-N1	4.84	1.46	1.38
1	A	341	CFZ	C4-N4	4.84	1.45	1.33
1	A	250	CFZ	C4-N4	4.84	1.45	1.33
1	A	314	CFZ	C4-N4	4.84	1.45	1.33
1	A	526	UFT	C2-N1	4.84	1.46	1.38
1	A	257	CFZ	C4-N4	4.84	1.45	1.33
1	A	404	CFZ	C4-N4	4.84	1.45	1.33
1	A	163	CFZ	C4-N4	4.83	1.45	1.33
1	A	191	UFT	C2-N1	4.83	1.46	1.38
1	A	291	UFT	C2-N1	4.83	1.46	1.38
1	A	264	CFZ	C4-N4	4.83	1.45	1.33
1	A	75	CFZ	C4-N4	4.83	1.45	1.33
1	A	380	CFZ	C4-N4	4.83	1.45	1.33
1	A	178	UFT	C2-N1	4.83	1.46	1.38
1	A	33	CFZ	C4-N4	4.82	1.45	1.33
1	A	298	CFZ	C4-N4	4.82	1.45	1.33
1	A	350	UFT	C2-N1	4.82	1.46	1.38
1	A	535	UFT	C2-N1	4.82	1.46	1.38
1	A	313	CFZ	C4-N4	4.82	1.45	1.33
1	A	80	UFT	C2-N1	4.82	1.46	1.38
1	A	134	UFT	C2-N1	4.82	1.46	1.38
1	A	432	UFT	C2-N1	4.82	1.46	1.38
1	A	26	UFT	C2-N1	4.82	1.46	1.38
1	A	28	UFT	C2-N1	4.82	1.46	1.38
1	A	504	UFT	C2-N1	4.82	1.46	1.38
1	A	445	CFZ	C4-N4	4.81	1.45	1.33
1	A	386	CFZ	C4-N4	4.81	1.45	1.33
1	A	104	CFZ	C4-N4	4.81	1.45	1.33
1	A	209	CFZ	C4-N4	4.81	1.45	1.33
1	A	132	CFZ	C4-N4	4.81	1.45	1.33
1	A	237	UFT	C2-N1	4.81	1.46	1.38
1	A	491	UFT	C2-N1	4.81	1.46	1.38
1	A	165	UFT	C2-N1	4.81	1.46	1.38
1	A	212	UFT	C2-N1	4.81	1.46	1.38
1	A	540	UFT	C2-N1	4.81	1.46	1.38
1	A	278	CFZ	C4-N4	4.80	1.45	1.33
1	A	230	CFZ	C4-N4	4.80	1.45	1.33
1	A	348	UFT	C2-N1	4.80	1.46	1.38
1	A	286	UFT	C2-N1	4.80	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	72	CFZ	C4-N4	4.79	1.45	1.33
1	A	460	UFT	C2-N1	4.79	1.46	1.38
1	A	97	UFT	C2-N1	4.78	1.46	1.38
1	A	85	UFT	C2-N1	4.78	1.46	1.38
1	A	465	UFT	C2-N1	4.77	1.46	1.38
1	A	171	UFT	C2-N1	4.77	1.46	1.38
1	A	340	UFT	C2-N1	4.77	1.46	1.38
1	A	276	UFT	C2-N1	4.76	1.46	1.38
1	A	166	UFT	C2-N1	4.76	1.46	1.38
1	A	406	UFT	C2-N1	4.76	1.46	1.38
1	A	470	UFT	C2-N1	4.76	1.46	1.38
1	A	133	UFT	C2-N1	4.76	1.46	1.38
1	A	71	UFT	C2-N1	4.75	1.46	1.38
1	A	87	UFT	C2-N1	4.75	1.46	1.38
1	A	95	UFT	C2-N1	4.75	1.46	1.38
1	A	130	UFT	C2-N1	4.75	1.46	1.38
1	A	115	UFT	C2-N1	4.75	1.46	1.38
1	A	228	UFT	C2-N1	4.75	1.46	1.38
1	A	18	UFT	C2-N1	4.75	1.46	1.38
1	A	281	CFZ	C4-N4	4.75	1.45	1.33
1	A	167	UFT	C2-N1	4.74	1.46	1.38
1	A	357	UFT	C2-N1	4.74	1.46	1.38
1	A	32	CFZ	C4-N4	4.74	1.45	1.33
1	A	101	CFZ	C4-N4	4.74	1.45	1.33
1	A	297	CFZ	C4-N4	4.73	1.45	1.33
1	A	498	UFT	C2-N1	4.73	1.46	1.38
1	A	428	CFZ	C2'-C3'	-4.73	1.46	1.52
1	A	511	UFT	C2-N1	4.73	1.46	1.38
1	A	156	UFT	C2-N1	4.73	1.46	1.38
1	A	188	UFT	C2-N1	4.73	1.46	1.38
1	A	43	UFT	C2-N1	4.73	1.46	1.38
1	A	170	UFT	C2-N1	4.72	1.46	1.38
1	A	450	UFT	C2-N1	4.72	1.46	1.38
1	A	8	UFT	C2-N1	4.72	1.46	1.38
1	A	411	UFT	C2-N1	4.72	1.46	1.38
1	A	320	UFT	C2-N1	4.72	1.46	1.38
1	A	412	UFT	C2-N1	4.72	1.46	1.38
1	A	477	UFT	C2-N1	4.72	1.46	1.38
1	A	389	UFT	C2-N1	4.72	1.46	1.38
1	A	282	UFT	C2-N1	4.71	1.46	1.38
1	A	211	CFZ	C4-N4	4.71	1.45	1.33
1	A	234	UFT	C2-N1	4.71	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	7	UFT	C2-N1	4.71	1.46	1.38
1	A	96	UFT	C2-N1	4.71	1.46	1.38
1	A	318	UFT	C2-N1	4.71	1.46	1.38
1	A	400	UFT	C2-N1	4.71	1.46	1.38
1	A	175	UFT	C2-N1	4.71	1.46	1.38
1	A	523	UFT	C2-N1	4.71	1.46	1.38
1	A	539	CFZ	C4-N4	4.70	1.45	1.33
1	A	438	UFT	C2-N1	4.70	1.46	1.38
1	A	358	UFT	C2-N1	4.70	1.46	1.38
1	A	483	CFZ	C2'-C3'	-4.70	1.46	1.52
1	A	437	CFZ	C2'-C3'	-4.70	1.46	1.52
1	A	272	UFT	C2-N1	4.70	1.46	1.38
1	A	324	UFT	C2-N1	4.69	1.46	1.38
1	A	92	UFT	C2-N1	4.69	1.46	1.38
1	A	509	UFT	C2-N1	4.69	1.46	1.38
1	A	35	UFT	C2-N1	4.69	1.46	1.38
1	A	15	UFT	C2-N1	4.69	1.46	1.38
1	A	55	UFT	C2-N1	4.69	1.46	1.38
1	A	366	UFT	C2-N1	4.69	1.46	1.38
1	A	421	UFT	C2-N1	4.69	1.46	1.38
1	A	153	UFT	C2-N1	4.68	1.46	1.38
1	A	63	UFT	C2-N1	4.68	1.46	1.38
1	A	528	UFT	C2-N1	4.67	1.45	1.38
1	A	398	UFT	C2-N1	4.67	1.45	1.38
1	A	397	CFZ	C2'-C3'	-4.67	1.46	1.52
1	A	529	UFT	C2-N1	4.67	1.45	1.38
1	A	44	UFT	C2-N1	4.67	1.45	1.38
1	A	72	CFZ	C2'-C3'	-4.67	1.46	1.52
1	A	388	UFT	C2-N1	4.67	1.45	1.38
1	A	147	UFT	C2-N1	4.66	1.45	1.38
1	A	331	UFT	C2-N1	4.66	1.45	1.38
1	A	93	CFZ	C2'-C3'	-4.66	1.46	1.52
1	A	541	UFT	C2-N1	4.66	1.45	1.38
1	A	479	UFT	C2-N1	4.66	1.45	1.38
1	A	60	UFT	C2-N1	4.66	1.45	1.38
1	A	48	UFT	C2-N1	4.66	1.45	1.38
1	A	528	UFT	C6-N1	4.65	1.49	1.38
1	A	65	UFT	C2-N1	4.65	1.45	1.38
1	A	83	UFT	C2-N1	4.65	1.45	1.38
1	A	84	CFZ	C2'-C3'	-4.65	1.46	1.52
1	A	495	CFZ	C2'-C3'	-4.65	1.46	1.52
1	A	538	UFT	C2-N1	4.65	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	430	CFZ	C4-N4	4.65	1.44	1.33
1	A	105	UFT	C2-N1	4.64	1.45	1.38
1	A	14	UFT	C2-N1	4.64	1.45	1.38
1	A	243	UFT	C2-N1	4.64	1.45	1.38
1	A	549	UFT	C2-N1	4.64	1.45	1.38
1	A	27	UFT	C2-N1	4.64	1.45	1.38
1	A	461	UFT	C2-N1	4.64	1.45	1.38
1	A	499	UFT	C2-N1	4.64	1.45	1.38
1	A	348	UFT	C6-N1	4.64	1.49	1.38
1	A	60	UFT	C6-N1	4.64	1.49	1.38
1	A	423	UFT	C6-N1	4.64	1.49	1.38
1	A	223	CFZ	C2'-C3'	-4.63	1.46	1.52
1	A	66	UFT	C2-N1	4.63	1.45	1.38
1	A	278	CFZ	C2'-C3'	-4.63	1.46	1.52
1	A	429	CFZ	C2'-C3'	-4.62	1.46	1.52
1	A	402	CFZ	C2'-C3'	-4.62	1.46	1.52
1	A	545	UFT	C2-N1	4.62	1.45	1.38
1	A	246	CFZ	C2'-C3'	-4.62	1.46	1.52
1	A	285	UFT	C2-N1	4.62	1.45	1.38
1	A	26	UFT	C6-N1	4.62	1.49	1.38
1	A	276	UFT	C6-N1	4.62	1.49	1.38
1	A	74	UFT	C6-N1	4.62	1.49	1.38
1	A	151	UFT	C2-N1	4.61	1.45	1.38
1	A	151	UFT	C6-N1	4.61	1.49	1.38
1	A	543	UFT	C6-N1	4.61	1.49	1.38
1	A	160	CFZ	C2'-C3'	-4.61	1.46	1.52
1	A	28	UFT	C6-N1	4.61	1.49	1.38
1	A	279	CFZ	C2'-C3'	-4.60	1.46	1.52
1	A	492	UFT	C2-N1	4.60	1.45	1.38
1	A	44	UFT	C6-N1	4.60	1.49	1.38
1	A	34	UFT	C2-N1	4.60	1.45	1.38
1	A	331	UFT	C6-N1	4.60	1.49	1.38
1	A	366	UFT	C6-N1	4.60	1.49	1.38
1	A	80	UFT	C6-N1	4.60	1.49	1.38
1	A	228	UFT	C6-N1	4.60	1.49	1.38
1	A	254	UFT	C6-N1	4.60	1.49	1.38
1	A	221	UFT	C6-N1	4.60	1.49	1.38
1	A	92	UFT	C6-N1	4.60	1.49	1.38
1	A	451	UFT	C2-N1	4.60	1.45	1.38
1	A	480	UFT	C2-N1	4.60	1.45	1.38
1	A	280	CFZ	C2'-C3'	-4.60	1.46	1.52
1	A	7	UFT	C6-N1	4.59	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	436	CFZ	C2'-C3'	-4.59	1.46	1.52
1	A	476	CFZ	C2'-C3'	-4.59	1.46	1.52
1	A	357	UFT	C6-N1	4.59	1.49	1.38
1	A	247	UFT	C6-N1	4.59	1.49	1.38
1	A	439	UFT	C2-N1	4.59	1.45	1.38
1	A	35	UFT	C6-N1	4.59	1.49	1.38
1	A	258	UFT	C6-N1	4.59	1.49	1.38
1	A	83	UFT	C6-N1	4.59	1.49	1.38
1	A	43	UFT	C6-N1	4.59	1.49	1.38
1	A	488	UFT	C2-N1	4.59	1.45	1.38
1	A	265	UFT	C2-N1	4.59	1.45	1.38
1	A	291	UFT	C6-N1	4.59	1.49	1.38
1	A	502	CFZ	C2'-C3'	-4.59	1.46	1.52
1	A	175	UFT	C6-N1	4.58	1.49	1.38
1	A	221	UFT	C2-N1	4.58	1.45	1.38
1	A	234	UFT	C6-N1	4.58	1.49	1.38
1	A	71	UFT	C6-N1	4.58	1.49	1.38
1	A	365	UFT	C2-N1	4.58	1.45	1.38
1	A	365	UFT	C6-N1	4.58	1.49	1.38
1	A	509	UFT	C6-N1	4.58	1.49	1.38
1	A	354	CFZ	C2'-C3'	-4.58	1.46	1.52
1	A	451	UFT	C6-N1	4.58	1.49	1.38
1	A	34	UFT	C6-N1	4.58	1.49	1.38
1	A	538	UFT	C6-N1	4.58	1.49	1.38
1	A	6	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	179	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	541	UFT	C6-N1	4.57	1.49	1.38
1	A	174	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	184	UFT	C2-N1	4.57	1.45	1.38
1	A	549	UFT	C6-N1	4.57	1.49	1.38
1	A	140	UFT	C6-N1	4.57	1.49	1.38
1	A	400	UFT	C6-N1	4.57	1.49	1.38
1	A	18	UFT	C6-N1	4.57	1.49	1.38
1	A	254	UFT	C2-N1	4.57	1.45	1.38
1	A	282	UFT	C6-N1	4.57	1.49	1.38
1	A	108	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	127	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	496	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	96	UFT	C6-N1	4.57	1.49	1.38
1	A	339	UFT	C6-N1	4.57	1.49	1.38
1	A	477	UFT	C6-N1	4.57	1.49	1.38
1	A	459	UFT	C6-N1	4.57	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	465	UFT	C6-N1	4.57	1.49	1.38
1	A	472	CFZ	C2'-C3'	-4.57	1.46	1.52
1	A	146	CFZ	C2'-C3'	-4.56	1.46	1.52
1	A	206	UFT	C6-N1	4.56	1.49	1.38
1	A	140	UFT	C2-N1	4.56	1.45	1.38
1	A	250	CFZ	C2'-C3'	-4.56	1.46	1.52
1	A	14	UFT	C6-N1	4.56	1.49	1.38
1	A	51	CFZ	C2'-C3'	-4.56	1.46	1.52
1	A	386	CFZ	C2'-C3'	-4.56	1.46	1.52
1	A	439	UFT	C6-N1	4.56	1.49	1.38
1	A	265	UFT	C6-N1	4.56	1.49	1.38
1	A	63	UFT	C6-N1	4.55	1.49	1.38
1	A	47	UFT	C6-N1	4.55	1.49	1.38
1	A	153	UFT	C6-N1	4.55	1.49	1.38
1	A	104	CFZ	C2'-C3'	-4.55	1.46	1.52
1	A	432	UFT	C6-N1	4.55	1.49	1.38
1	A	114	UFT	C6-N1	4.55	1.49	1.38
1	A	39	UFT	C6-N1	4.55	1.49	1.38
1	A	339	UFT	C2-N1	4.55	1.45	1.38
1	A	45	UFT	C6-N1	4.55	1.49	1.38
1	A	285	UFT	C6-N1	4.55	1.49	1.38
1	A	523	UFT	C6-N1	4.55	1.49	1.38
1	A	15	UFT	C6-N1	4.55	1.49	1.38
1	A	319	UFT	C6-N1	4.55	1.49	1.38
1	A	167	UFT	C6-N1	4.55	1.49	1.38
1	A	358	UFT	C6-N1	4.55	1.49	1.38
1	A	130	UFT	C6-N1	4.54	1.49	1.38
1	A	184	UFT	C6-N1	4.54	1.49	1.38
1	A	450	UFT	C6-N1	4.54	1.49	1.38
1	A	97	UFT	C6-N1	4.54	1.49	1.38
1	A	272	UFT	C6-N1	4.54	1.49	1.38
1	A	411	UFT	C6-N1	4.54	1.49	1.38
1	A	289	CFZ	C2'-C3'	-4.54	1.46	1.52
1	A	511	UFT	C6-N1	4.54	1.49	1.38
1	A	526	UFT	C6-N1	4.54	1.49	1.38
1	A	527	CFZ	C2'-C3'	-4.54	1.46	1.52
1	A	113	CFZ	C2'-C3'	-4.54	1.46	1.52
1	A	454	CFZ	C2'-C3'	-4.54	1.46	1.52
1	A	87	UFT	C6-N1	4.54	1.48	1.38
1	A	421	UFT	C6-N1	4.54	1.48	1.38
1	A	529	UFT	C6-N1	4.54	1.48	1.38
1	A	281	CFZ	C2'-C3'	-4.54	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	258	UFT	C2-N1	4.54	1.45	1.38
1	A	479	UFT	C6-N1	4.53	1.48	1.38
1	A	105	UFT	C6-N1	4.53	1.48	1.38
1	A	166	UFT	C6-N1	4.53	1.48	1.38
1	A	237	UFT	C6-N1	4.53	1.48	1.38
1	A	389	UFT	C6-N1	4.53	1.48	1.38
1	A	461	UFT	C6-N1	4.53	1.48	1.38
1	A	188	UFT	C6-N1	4.53	1.48	1.38
1	A	460	UFT	C6-N1	4.53	1.48	1.38
1	A	215	UFT	C6-N1	4.53	1.48	1.38
1	A	506	CFZ	C2'-C3'	-4.53	1.46	1.52
1	A	88	UFT	C2-N1	4.53	1.45	1.38
1	A	286	UFT	C6-N1	4.53	1.48	1.38
1	A	144	CFZ	C2'-C3'	-4.53	1.46	1.52
1	A	8	UFT	C6-N1	4.53	1.48	1.38
1	A	535	UFT	C6-N1	4.53	1.48	1.38
1	A	109	CFZ	C2'-C3'	-4.53	1.46	1.52
1	A	66	UFT	C6-N1	4.53	1.48	1.38
1	A	55	UFT	C6-N1	4.52	1.48	1.38
1	A	119	UFT	C6-N1	4.52	1.48	1.38
1	A	438	UFT	C6-N1	4.52	1.48	1.38
1	A	470	UFT	C6-N1	4.52	1.48	1.38
1	A	324	UFT	C6-N1	4.52	1.48	1.38
1	A	406	UFT	C6-N1	4.52	1.48	1.38
1	A	115	UFT	C6-N1	4.52	1.48	1.38
1	A	320	UFT	C6-N1	4.52	1.48	1.38
1	A	399	UFT	C6-N1	4.52	1.48	1.38
1	A	318	UFT	C6-N1	4.52	1.48	1.38
1	A	125	CFZ	C2'-C3'	-4.52	1.46	1.52
1	A	230	CFZ	C2'-C3'	-4.52	1.46	1.52
1	A	11	CFZ	C2'-C3'	-4.52	1.46	1.52
1	A	211	CFZ	C2'-C3'	-4.52	1.46	1.52
1	A	76	CFZ	C2'-C3'	-4.51	1.46	1.52
1	A	510	UFT	C6-N1	4.51	1.48	1.38
1	A	154	CFZ	C2'-C3'	-4.51	1.46	1.52
1	A	488	UFT	C6-N1	4.51	1.48	1.38
1	A	412	UFT	C6-N1	4.51	1.48	1.38
1	A	480	UFT	C6-N1	4.51	1.48	1.38
1	A	525	CFZ	C2'-C3'	-4.51	1.46	1.52
1	A	391	UFT	C6-N1	4.51	1.48	1.38
1	A	522	CFZ	C2'-C3'	-4.51	1.46	1.52
1	A	492	UFT	C6-N1	4.51	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	10	CFZ	C2'-C3'	-4.50	1.46	1.52
1	A	4	CFZ	C2'-C3'	-4.50	1.46	1.52
1	A	124	CFZ	C2'-C3'	-4.50	1.46	1.52
1	A	13	UFT	C6-N1	4.50	1.48	1.38
1	A	65	UFT	C6-N1	4.50	1.48	1.38
1	A	385	UFT	C6-N1	4.50	1.48	1.38
1	A	298	CFZ	C2'-C3'	-4.50	1.46	1.52
1	A	133	UFT	C6-N1	4.50	1.48	1.38
1	A	95	UFT	C6-N1	4.50	1.48	1.38
1	A	194	UFT	C6-N1	4.50	1.48	1.38
1	A	398	UFT	C6-N1	4.50	1.48	1.38
1	A	209	CFZ	C2'-C3'	-4.50	1.46	1.52
1	A	499	UFT	C6-N1	4.50	1.48	1.38
1	A	191	UFT	C6-N1	4.49	1.48	1.38
1	A	48	UFT	C6-N1	4.49	1.48	1.38
1	A	380	CFZ	C2'-C3'	-4.49	1.46	1.52
1	A	163	CFZ	C2'-C3'	-4.49	1.46	1.52
1	A	314	CFZ	C2'-C3'	-4.49	1.46	1.52
1	A	156	UFT	C6-N1	4.49	1.48	1.38
1	A	243	UFT	C6-N1	4.49	1.48	1.38
1	A	287	CFZ	C2'-C3'	-4.49	1.46	1.52
1	A	27	UFT	C6-N1	4.49	1.48	1.38
1	A	491	UFT	C6-N1	4.48	1.48	1.38
1	A	508	CFZ	C2'-C3'	-4.48	1.46	1.52
1	A	303	CFZ	C2'-C3'	-4.48	1.46	1.52
1	A	85	UFT	C6-N1	4.48	1.48	1.38
1	A	457	CFZ	C2'-C3'	-4.48	1.46	1.52
1	A	78	CFZ	C2'-C3'	-4.48	1.46	1.52
1	A	177	CFZ	C2'-C3'	-4.48	1.46	1.52
1	A	507	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	88	UFT	C6-N1	4.47	1.48	1.38
1	A	165	UFT	C6-N1	4.47	1.48	1.38
1	A	433	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	75	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	310	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	435	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	12	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	349	CFZ	C2'-C3'	-4.47	1.46	1.52
1	A	210	CFZ	C2'-C3'	-4.46	1.46	1.52
1	A	504	UFT	C6-N1	4.46	1.48	1.38
1	A	110	CFZ	C2'-C3'	-4.46	1.46	1.52
1	A	475	CFZ	C2'-C3'	-4.46	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	350	UFT	C6-N1	4.46	1.48	1.38
1	A	501	CFZ	C2'-C3'	-4.46	1.46	1.52
1	A	134	UFT	C6-N1	4.46	1.48	1.38
1	A	498	UFT	C6-N1	4.46	1.48	1.38
1	A	283	CFZ	C2'-C3'	-4.46	1.46	1.52
1	A	413	CFZ	C2'-C3'	-4.45	1.46	1.52
1	A	302	CFZ	C2'-C3'	-4.45	1.46	1.52
1	A	415	CFZ	C2'-C3'	-4.45	1.46	1.52
1	A	374	CFZ	C2'-C3'	-4.45	1.46	1.52
1	A	368	CFZ	C2'-C3'	-4.45	1.46	1.52
1	A	212	UFT	C6-N1	4.45	1.48	1.38
1	A	346	CFZ	C2'-C3'	-4.44	1.46	1.52
1	A	255	CFZ	C2'-C3'	-4.44	1.46	1.52
1	A	545	UFT	C6-N1	4.44	1.48	1.38
1	A	147	UFT	C6-N1	4.43	1.48	1.38
1	A	298	CFZ	C2-N3	4.43	1.45	1.36
1	A	213	CFZ	C2'-C3'	-4.43	1.46	1.52
1	A	20	CFZ	C2'-C3'	-4.43	1.46	1.52
1	A	111	CFZ	C2'-C3'	-4.43	1.46	1.52
1	A	430	CFZ	C2'-C3'	-4.43	1.46	1.52
1	A	209	CFZ	C2-N3	4.42	1.45	1.36
1	A	430	CFZ	C2-N3	4.42	1.45	1.36
1	A	313	CFZ	C2'-C3'	-4.42	1.46	1.52
1	A	178	UFT	C6-N1	4.42	1.48	1.38
1	A	337	CFZ	C2'-C3'	-4.41	1.46	1.52
1	A	518	CFZ	C2'-C3'	-4.41	1.46	1.52
1	A	388	UFT	C6-N1	4.41	1.48	1.38
1	A	229	CFZ	C2'-C3'	-4.41	1.46	1.52
1	A	89	CFZ	C2'-C3'	-4.41	1.46	1.52
1	A	251	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	540	UFT	C6-N1	4.40	1.48	1.38
1	A	539	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	162	CFZ	C2-N3	4.40	1.45	1.36
1	A	183	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	325	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	340	UFT	C6-N1	4.40	1.48	1.38
1	A	278	CFZ	C2-N3	4.40	1.45	1.36
1	A	468	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	216	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	448	CFZ	C2'-C3'	-4.40	1.46	1.52
1	A	467	CFZ	C2'-C3'	-4.39	1.46	1.52
1	A	364	CFZ	C2'-C3'	-4.39	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	264	CFZ	C2'-C3'	-4.39	1.46	1.52
1	A	307	CFZ	C2'-C3'	-4.38	1.46	1.52
1	A	132	CFZ	C2'-C3'	-4.38	1.46	1.52
1	A	419	CFZ	C2'-C3'	-4.38	1.46	1.52
1	A	170	UFT	C6-N1	4.38	1.48	1.38
1	A	101	CFZ	C2-N3	4.38	1.45	1.36
1	A	171	UFT	C6-N1	4.38	1.48	1.38
1	A	32	CFZ	C2'-C3'	-4.38	1.46	1.52
1	A	487	CFZ	C2'-C3'	-4.37	1.46	1.52
1	A	487	CFZ	C2-N3	4.37	1.45	1.36
1	A	41	CFZ	C2'-C3'	-4.37	1.46	1.52
1	A	404	CFZ	C2-N3	4.36	1.45	1.36
1	A	64	CFZ	C2'-C3'	-4.36	1.46	1.52
1	A	67	CFZ	C2'-C3'	-4.36	1.46	1.52
1	A	230	CFZ	C2-N3	4.36	1.45	1.36
1	A	276	UFT	C2'-C3'	-4.35	1.46	1.52
1	A	490	CFZ	C2'-C3'	-4.35	1.46	1.52
1	A	211	CFZ	C2-N3	4.35	1.45	1.36
1	A	342	CFZ	C2'-C3'	-4.34	1.46	1.52
1	A	368	CFZ	C2-N3	4.34	1.45	1.36
1	A	262	CFZ	C2'-C3'	-4.34	1.46	1.52
1	A	539	CFZ	C2-N3	4.34	1.45	1.36
1	A	380	CFZ	C2-N3	4.34	1.45	1.36
1	A	313	CFZ	C2-N3	4.33	1.45	1.36
1	A	454	CFZ	C2-N3	4.33	1.45	1.36
1	A	162	CFZ	C2'-C3'	-4.33	1.46	1.52
1	A	220	CFZ	C2-N3	4.33	1.45	1.36
1	A	257	CFZ	C2'-C3'	-4.32	1.46	1.52
1	A	297	CFZ	C2-N3	4.32	1.45	1.36
1	A	101	CFZ	C2'-C3'	-4.31	1.46	1.52
1	A	220	CFZ	C2'-C3'	-4.31	1.46	1.52
1	A	364	CFZ	C2-N3	4.31	1.45	1.36
1	A	301	CFZ	C2-N3	4.31	1.45	1.36
1	A	346	CFZ	C2-N3	4.31	1.45	1.36
1	A	301	CFZ	C2'-C3'	-4.31	1.46	1.52
1	A	344	CFZ	C2'-C3'	-4.30	1.46	1.52
1	A	282	UFT	C5-C4	4.30	1.53	1.43
1	A	468	CFZ	C2-N3	4.30	1.45	1.36
1	A	257	CFZ	C2-N3	4.30	1.45	1.36
1	A	387	CFZ	C2'-C3'	-4.30	1.46	1.52
1	A	259	CFZ	C2'-C3'	-4.30	1.46	1.52
1	A	163	CFZ	C2-N3	4.29	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	89	CFZ	C2-N3	4.29	1.45	1.36
1	A	339	UFT	C5-C4	4.29	1.53	1.43
1	A	387	CFZ	C2-N3	4.28	1.45	1.36
1	A	229	CFZ	C2-N3	4.28	1.45	1.36
1	A	251	CFZ	C2-N3	4.28	1.45	1.36
1	A	496	CFZ	C2-N3	4.28	1.45	1.36
1	A	281	CFZ	C2-N3	4.28	1.45	1.36
1	A	348	UFT	C5-C4	4.28	1.53	1.43
1	A	495	CFZ	C2-N3	4.28	1.45	1.36
1	A	146	CFZ	C2-N3	4.28	1.45	1.36
1	A	452	CFZ	C2-N3	4.28	1.45	1.36
1	A	452	CFZ	C2'-C3'	-4.28	1.46	1.52
1	A	407	CFZ	C2-N3	4.28	1.45	1.36
1	A	104	CFZ	C2-N3	4.28	1.45	1.36
1	A	331	UFT	C5-C4	4.28	1.53	1.43
1	A	255	CFZ	C2-N3	4.27	1.45	1.36
1	A	92	UFT	C5-C4	4.27	1.53	1.43
1	A	264	CFZ	C2-N3	4.27	1.45	1.36
1	A	483	CFZ	C2-N3	4.27	1.45	1.36
1	A	105	UFT	C5-C4	4.27	1.53	1.43
1	A	344	CFZ	C2-N3	4.27	1.45	1.36
1	A	314	CFZ	C2-N3	4.27	1.45	1.36
1	A	20	CFZ	C2-N3	4.27	1.45	1.36
1	A	252	CFZ	C2-N3	4.27	1.45	1.36
1	A	421	UFT	C5-C4	4.27	1.53	1.43
1	A	490	CFZ	C2-N3	4.27	1.45	1.36
1	A	507	CFZ	C2-N3	4.27	1.45	1.36
1	A	132	CFZ	C2-N3	4.27	1.45	1.36
1	A	279	CFZ	C2-N3	4.27	1.45	1.36
1	A	72	CFZ	C2-N3	4.26	1.45	1.36
1	A	177	CFZ	C2-N3	4.26	1.45	1.36
1	A	213	CFZ	C2-N3	4.26	1.45	1.36
1	A	501	CFZ	C2-N3	4.26	1.45	1.36
1	A	116	CFZ	C2'-C3'	-4.26	1.46	1.52
1	A	225	CFZ	C2'-C3'	-4.26	1.46	1.52
1	A	160	CFZ	C2-N3	4.26	1.45	1.36
1	A	512	CFZ	C2'-C3'	-4.26	1.46	1.52
1	A	153	UFT	C5-C4	4.26	1.53	1.43
1	A	283	CFZ	C2-N3	4.26	1.45	1.36
1	A	74	UFT	C5-C4	4.25	1.53	1.43
1	A	265	UFT	C5-C4	4.25	1.53	1.43
1	A	32	CFZ	C2-N3	4.25	1.45	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	262	CFZ	C2-N3	4.25	1.45	1.36
1	A	174	CFZ	C2-N3	4.25	1.45	1.36
1	A	175	UFT	C5-C4	4.25	1.53	1.43
1	A	492	UFT	C5-C4	4.25	1.53	1.43
1	A	366	UFT	C5-C4	4.25	1.53	1.43
1	A	254	UFT	C5-C4	4.25	1.53	1.43
1	A	543	UFT	C2'-C3'	-4.25	1.46	1.52
1	A	8	UFT	C5-C4	4.24	1.53	1.43
1	A	15	UFT	C5-C4	4.24	1.53	1.43
1	A	499	UFT	C5-C4	4.24	1.53	1.43
1	A	303	CFZ	C2-N3	4.24	1.45	1.36
1	A	60	UFT	C5-C4	4.24	1.53	1.43
1	A	365	UFT	C5-C4	4.24	1.53	1.43
1	A	75	CFZ	C2-N3	4.24	1.44	1.36
1	A	83	UFT	C5-C4	4.24	1.53	1.43
1	A	156	UFT	C5-C4	4.24	1.53	1.43
1	A	221	UFT	C5-C4	4.24	1.53	1.43
1	A	167	UFT	C5-C4	4.24	1.53	1.43
1	A	216	CFZ	C2-N3	4.24	1.44	1.36
1	A	386	CFZ	C2-N3	4.24	1.44	1.36
1	A	413	CFZ	C2-N3	4.24	1.44	1.36
1	A	506	CFZ	C2-N3	4.24	1.44	1.36
1	A	358	UFT	C5-C4	4.24	1.53	1.43
1	A	465	UFT	C5-C4	4.24	1.53	1.43
1	A	491	UFT	C5-C4	4.24	1.53	1.43
1	A	43	UFT	C5-C4	4.24	1.53	1.43
1	A	404	CFZ	C2'-C3'	-4.24	1.46	1.52
1	A	250	CFZ	C2-N3	4.24	1.44	1.36
1	A	438	UFT	C5-C4	4.23	1.53	1.43
1	A	448	CFZ	C2-N3	4.23	1.44	1.36
1	A	341	CFZ	C2-N3	4.23	1.44	1.36
1	A	291	UFT	C5-C4	4.23	1.53	1.43
1	A	545	UFT	C5-C4	4.23	1.53	1.43
1	A	41	CFZ	C2-N3	4.23	1.44	1.36
1	A	423	UFT	C5-C4	4.23	1.53	1.43
1	A	541	UFT	C5-C4	4.23	1.53	1.43
1	A	389	UFT	C5-C4	4.23	1.53	1.43
1	A	411	UFT	C5-C4	4.23	1.53	1.43
1	A	258	UFT	C5-C4	4.23	1.53	1.43
1	A	125	CFZ	C2-N3	4.23	1.44	1.36
1	A	259	CFZ	C2-N3	4.23	1.44	1.36
1	A	503	CFZ	C2-N3	4.23	1.44	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	522	CFZ	C2-N3	4.23	1.44	1.36
1	A	543	UFT	C5-C4	4.23	1.53	1.43
1	A	349	CFZ	C2-N3	4.23	1.44	1.36
1	A	252	CFZ	C2'-C3'	-4.23	1.46	1.52
1	A	7	UFT	C5-C4	4.22	1.53	1.43
1	A	144	CFZ	C2-N3	4.22	1.44	1.36
1	A	276	UFT	C5-C4	4.22	1.53	1.43
1	A	535	UFT	C2'-C3'	-4.22	1.46	1.52
1	A	439	UFT	C5-C4	4.22	1.53	1.43
1	A	429	CFZ	C2-N3	4.22	1.44	1.36
1	A	11	CFZ	C2-N3	4.22	1.44	1.36
1	A	210	CFZ	C2-N3	4.22	1.44	1.36
1	A	406	UFT	C5-C4	4.22	1.53	1.43
1	A	342	CFZ	C2-N3	4.22	1.44	1.36
1	A	518	CFZ	C2-N3	4.22	1.44	1.36
1	A	98	CFZ	C2'-C3'	-4.22	1.46	1.52
1	A	80	UFT	C5-C4	4.22	1.53	1.43
1	A	166	UFT	C5-C4	4.22	1.53	1.43
1	A	151	UFT	C5-C4	4.22	1.53	1.43
1	A	14	UFT	C5-C4	4.22	1.53	1.43
1	A	337	CFZ	C2-N3	4.22	1.44	1.36
1	A	333	CFZ	C2'-C3'	-4.22	1.46	1.52
1	A	302	CFZ	C2-N3	4.21	1.44	1.36
1	A	65	UFT	C5-C4	4.21	1.53	1.43
1	A	310	CFZ	C2-N3	4.21	1.44	1.36
1	A	76	CFZ	C2-N3	4.21	1.44	1.36
1	A	228	UFT	C5-C4	4.21	1.53	1.43
1	A	63	UFT	C5-C4	4.21	1.53	1.43
1	A	130	UFT	C5-C4	4.21	1.52	1.43
1	A	529	UFT	C5-C4	4.21	1.52	1.43
1	A	508	CFZ	C2-N3	4.21	1.44	1.36
1	A	243	UFT	C5-C4	4.21	1.52	1.43
1	A	419	CFZ	C2-N3	4.21	1.44	1.36
1	A	286	UFT	C5-C4	4.21	1.52	1.43
1	A	477	UFT	C5-C4	4.21	1.52	1.43
1	A	467	CFZ	C2-N3	4.21	1.44	1.36
1	A	237	UFT	C5-C4	4.21	1.52	1.43
1	A	15	UFT	C2'-C3'	-4.21	1.46	1.52
1	A	407	CFZ	C2'-C3'	-4.21	1.46	1.52
1	A	423	UFT	C2'-C3'	-4.21	1.46	1.52
1	A	119	UFT	C5-C4	4.21	1.52	1.43
1	A	479	UFT	C5-C4	4.21	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	215	UFT	C5-C4	4.20	1.52	1.43
1	A	400	UFT	C5-C4	4.20	1.52	1.43
1	A	488	UFT	C5-C4	4.20	1.52	1.43
1	A	432	UFT	C5-C4	4.20	1.52	1.43
1	A	549	UFT	C5-C4	4.20	1.52	1.43
1	A	445	CFZ	C2'-C3'	-4.20	1.46	1.52
1	A	34	UFT	C5-C4	4.20	1.52	1.43
1	A	66	UFT	C5-C4	4.20	1.52	1.43
1	A	188	UFT	C5-C4	4.20	1.52	1.43
1	A	133	UFT	C5-C4	4.20	1.52	1.43
1	A	503	CFZ	C2'-C3'	-4.20	1.46	1.52
1	A	27	UFT	C5-C4	4.20	1.52	1.43
1	A	415	CFZ	C2-N3	4.20	1.44	1.36
1	A	272	UFT	C5-C4	4.19	1.52	1.43
1	A	127	CFZ	C2-N3	4.19	1.44	1.36
1	A	445	CFZ	C2-N3	4.19	1.44	1.36
1	A	84	CFZ	C2-N3	4.19	1.44	1.36
1	A	397	CFZ	C2-N3	4.19	1.44	1.36
1	A	523	UFT	C5-C4	4.19	1.52	1.43
1	A	307	CFZ	C2-N3	4.19	1.44	1.36
1	A	247	UFT	C5-C4	4.19	1.52	1.43
1	A	247	UFT	C2'-C3'	-4.19	1.46	1.52
1	A	206	UFT	C5-C4	4.19	1.52	1.43
1	A	285	UFT	C5-C4	4.19	1.52	1.43
1	A	428	CFZ	C2-N3	4.19	1.44	1.36
1	A	71	UFT	C5-C4	4.19	1.52	1.43
1	A	470	UFT	C5-C4	4.19	1.52	1.43
1	A	87	UFT	C5-C4	4.18	1.52	1.43
1	A	225	CFZ	C2-N3	4.18	1.44	1.36
1	A	96	UFT	C5-C4	4.18	1.52	1.43
1	A	398	UFT	C5-C4	4.18	1.52	1.43
1	A	451	UFT	C5-C4	4.18	1.52	1.43
1	A	49	CFZ	C2'-C3'	-4.18	1.46	1.52
1	A	18	UFT	C5-C4	4.18	1.52	1.43
1	A	538	UFT	C5-C4	4.18	1.52	1.43
1	A	48	UFT	C5-C4	4.18	1.52	1.43
1	A	460	UFT	C5-C4	4.18	1.52	1.43
1	A	97	UFT	C5-C4	4.18	1.52	1.43
1	A	461	UFT	C5-C4	4.18	1.52	1.43
1	A	184	UFT	C5-C4	4.18	1.52	1.43
1	A	13	UFT	C5-C4	4.18	1.52	1.43
1	A	140	UFT	C5-C4	4.18	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	511	UFT	C5-C4	4.18	1.52	1.43
1	A	212	UFT	C5-C4	4.18	1.52	1.43
1	A	510	UFT	C5-C4	4.17	1.52	1.43
1	A	36	CFZ	C2-N3	4.17	1.44	1.36
1	A	12	CFZ	C2-N3	4.17	1.44	1.36
1	A	223	CFZ	C2-N3	4.17	1.44	1.36
1	A	320	UFT	C5-C4	4.17	1.52	1.43
1	A	412	UFT	C5-C4	4.17	1.52	1.43
1	A	475	CFZ	C2-N3	4.17	1.44	1.36
1	A	114	UFT	C5-C4	4.17	1.52	1.43
1	A	194	UFT	C5-C4	4.17	1.52	1.43
1	A	40	CFZ	C2'-C3'	-4.17	1.46	1.52
1	A	509	UFT	C5-C4	4.16	1.52	1.43
1	A	124	CFZ	C2-N3	4.16	1.44	1.36
1	A	476	CFZ	C2-N3	4.16	1.44	1.36
1	A	450	UFT	C5-C4	4.16	1.52	1.43
1	A	88	UFT	C5-C4	4.16	1.52	1.43
1	A	341	CFZ	C2'-C3'	-4.16	1.46	1.52
1	A	108	CFZ	C2-N3	4.16	1.44	1.36
1	A	504	UFT	C5-C4	4.16	1.52	1.43
1	A	28	UFT	C5-C4	4.16	1.52	1.43
1	A	440	CFZ	C2'-C3'	-4.16	1.46	1.52
1	A	498	UFT	C5-C4	4.16	1.52	1.43
1	A	45	UFT	C5-C4	4.15	1.52	1.43
1	A	29	CFZ	C2'-C3'	-4.15	1.46	1.52
1	A	459	UFT	C5-C4	4.15	1.52	1.43
1	A	297	CFZ	C2'-C3'	-4.15	1.46	1.52
1	A	535	UFT	C5-C4	4.15	1.52	1.43
1	A	44	UFT	C5-C4	4.15	1.52	1.43
1	A	80	UFT	C2'-C3'	-4.15	1.46	1.52
1	A	530	CFZ	C2'-C3'	-4.15	1.46	1.52
1	A	33	CFZ	C2-N3	4.15	1.44	1.36
1	A	357	UFT	C5-C4	4.15	1.52	1.43
1	A	480	UFT	C5-C4	4.15	1.52	1.43
1	A	147	UFT	C5-C4	4.15	1.52	1.43
1	A	280	CFZ	C2-N3	4.15	1.44	1.36
1	A	324	UFT	C5-C4	4.15	1.52	1.43
1	A	291	UFT	C2'-C3'	-4.15	1.47	1.52
1	A	319	UFT	C5-C4	4.14	1.52	1.43
1	A	183	CFZ	C2-N3	4.14	1.44	1.36
1	A	35	UFT	C5-C4	4.14	1.52	1.43
1	A	191	UFT	C5-C4	4.14	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	111	CFZ	C2-N3	4.14	1.44	1.36
1	A	39	UFT	C5-C4	4.14	1.52	1.43
1	A	154	CFZ	C2-N3	4.14	1.44	1.36
1	A	354	CFZ	C2-N3	4.14	1.44	1.36
1	A	528	UFT	C5-C4	4.14	1.52	1.43
1	A	399	UFT	C5-C4	4.14	1.52	1.43
1	A	119	UFT	C2'-C3'	-4.14	1.47	1.52
1	A	64	CFZ	C2-N3	4.14	1.44	1.36
1	A	234	UFT	C5-C4	4.14	1.52	1.43
1	A	26	UFT	C5-C4	4.14	1.52	1.43
1	A	462	CFZ	C2'-C3'	-4.14	1.47	1.52
1	A	71	UFT	C2'-C3'	-4.14	1.47	1.52
1	A	526	UFT	C5-C4	4.13	1.52	1.43
1	A	4	CFZ	C2-N3	4.13	1.44	1.36
1	A	55	UFT	C5-C4	4.13	1.52	1.43
1	A	85	UFT	C5-C4	4.13	1.52	1.43
1	A	350	UFT	C5-C4	4.13	1.52	1.43
1	A	40	CFZ	C2-N3	4.13	1.44	1.36
1	A	318	UFT	C5-C4	4.13	1.52	1.43
1	A	457	CFZ	C2-N3	4.13	1.44	1.36
1	A	433	CFZ	C2-N3	4.12	1.44	1.36
1	A	8	UFT	C2'-C3'	-4.12	1.47	1.52
1	A	78	CFZ	C2-N3	4.12	1.44	1.36
1	A	357	UFT	C2'-C3'	-4.12	1.47	1.52
1	A	115	UFT	C5-C4	4.12	1.52	1.43
1	A	391	UFT	C5-C4	4.12	1.52	1.43
1	A	110	CFZ	C2-N3	4.12	1.44	1.36
1	A	95	UFT	C5-C4	4.12	1.52	1.43
1	A	51	CFZ	C2-N3	4.12	1.44	1.36
1	A	10	CFZ	C2-N3	4.12	1.44	1.36
1	A	374	CFZ	C2-N3	4.12	1.44	1.36
1	A	451	UFT	C2'-C3'	-4.11	1.47	1.52
1	A	500	CFZ	C2'-C3'	-4.11	1.47	1.52
1	A	402	CFZ	C2-N3	4.11	1.44	1.36
1	A	165	UFT	C5-C4	4.11	1.52	1.43
1	A	109	CFZ	C2-N3	4.11	1.44	1.36
1	A	358	UFT	C2'-C3'	-4.11	1.47	1.52
1	A	113	CFZ	C2-N3	4.10	1.44	1.36
1	A	333	CFZ	C2-N3	4.10	1.44	1.36
1	A	500	CFZ	C2-N3	4.10	1.44	1.36
1	A	459	UFT	C2'-C3'	-4.10	1.47	1.52
1	A	340	UFT	C5-C4	4.10	1.52	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	171	UFT	C5-C4	4.10	1.52	1.43
1	A	45	UFT	C2'-C3'	-4.10	1.47	1.52
1	A	538	UFT	C2'-C3'	-4.10	1.47	1.52
1	A	325	CFZ	C2-N3	4.09	1.44	1.36
1	A	331	UFT	C2'-C3'	-4.09	1.47	1.52
1	A	60	UFT	C2'-C3'	-4.09	1.47	1.52
1	A	74	UFT	C2'-C3'	-4.09	1.47	1.52
1	A	47	UFT	C5-C4	4.09	1.52	1.43
1	A	530	CFZ	C2-N3	4.08	1.44	1.36
1	A	179	CFZ	C2-N3	4.08	1.44	1.36
1	A	134	UFT	C5-C4	4.08	1.52	1.43
1	A	540	UFT	C5-C4	4.08	1.52	1.43
1	A	481	CFZ	C2'-C3'	-4.08	1.47	1.52
1	A	6	CFZ	C2-N3	4.08	1.44	1.36
1	A	116	CFZ	C2-N3	4.08	1.44	1.36
1	A	465	UFT	C2'-C3'	-4.08	1.47	1.52
1	A	388	UFT	C5-C4	4.08	1.52	1.43
1	A	92	UFT	C2'-C3'	-4.07	1.47	1.52
1	A	167	UFT	C2'-C3'	-4.07	1.47	1.52
1	A	400	UFT	C2'-C3'	-4.07	1.47	1.52
1	A	399	UFT	C2'-C3'	-4.07	1.47	1.52
1	A	237	UFT	C2'-C3'	-4.06	1.47	1.52
1	A	98	CFZ	C2-N3	4.06	1.44	1.36
1	A	246	CFZ	C2-N3	4.06	1.44	1.36
1	A	166	UFT	C2'-C3'	-4.06	1.47	1.52
1	A	206	UFT	C2'-C3'	-4.06	1.47	1.52
1	A	18	UFT	C2'-C3'	-4.06	1.47	1.52
1	A	7	UFT	C2'-C3'	-4.06	1.47	1.52
1	A	49	CFZ	C2-N3	4.05	1.44	1.36
1	A	366	UFT	C2'-C3'	-4.05	1.47	1.52
1	A	289	CFZ	C2-N3	4.05	1.44	1.36
1	A	83	UFT	C2'-C3'	-4.05	1.47	1.52
1	A	385	UFT	C2'-C3'	-4.04	1.47	1.52
1	A	512	CFZ	C2-N3	4.04	1.44	1.36
1	A	228	UFT	C2'-C3'	-4.04	1.47	1.52
1	A	435	CFZ	C2-N3	4.04	1.44	1.36
1	A	528	UFT	C2'-C3'	-4.04	1.47	1.52
1	A	385	UFT	C5-C4	4.04	1.52	1.43
1	A	140	UFT	C2'-C3'	-4.03	1.47	1.52
1	A	67	CFZ	C2-N3	4.03	1.44	1.36
1	A	33	CFZ	C2'-C3'	-4.03	1.47	1.52
1	A	184	UFT	C2'-C3'	-4.03	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	472	CFZ	C2-N3	4.03	1.44	1.36
1	A	509	UFT	C2'-C3'	-4.03	1.47	1.52
1	A	170	UFT	C5-C4	4.03	1.52	1.43
1	A	502	CFZ	C2-N3	4.03	1.44	1.36
1	A	477	UFT	C2'-C3'	-4.03	1.47	1.52
1	A	436	CFZ	C2-N3	4.02	1.44	1.36
1	A	221	UFT	C2'-C3'	-4.02	1.47	1.52
1	A	29	CFZ	C2-N3	4.01	1.44	1.36
1	A	365	UFT	C2'-C3'	-4.01	1.47	1.52
1	A	85	UFT	C2'-C3'	-4.01	1.47	1.52
1	A	462	CFZ	C2-N3	4.01	1.44	1.36
1	A	526	UFT	C2'-C3'	-4.01	1.47	1.52
1	A	525	CFZ	C2-N3	4.01	1.44	1.36
1	A	175	UFT	C2'-C3'	-4.00	1.47	1.52
1	A	527	CFZ	C2-N3	4.00	1.44	1.36
1	A	178	UFT	C2'-C3'	-4.00	1.47	1.52
1	A	481	CFZ	C2-N3	4.00	1.44	1.36
1	A	14	UFT	C2'-C3'	-4.00	1.47	1.52
1	A	286	UFT	C2'-C3'	-4.00	1.47	1.52
1	A	153	UFT	C2'-C3'	-4.00	1.47	1.52
1	A	440	CFZ	C2-N3	4.00	1.44	1.36
1	A	437	CFZ	C2-N3	4.00	1.44	1.36
1	A	282	UFT	C2'-C3'	-3.99	1.47	1.52
1	A	13	UFT	C2'-C3'	-3.98	1.47	1.52
1	A	44	UFT	C2'-C3'	-3.98	1.47	1.52
1	A	438	UFT	C2'-C3'	-3.98	1.47	1.52
1	A	147	UFT	C2'-C3'	-3.97	1.47	1.52
1	A	133	UFT	C2'-C3'	-3.97	1.47	1.52
1	A	130	UFT	C2'-C3'	-3.97	1.47	1.52
1	A	36	CFZ	C2'-C3'	-3.96	1.47	1.52
1	A	272	UFT	C2'-C3'	-3.96	1.47	1.52
1	A	178	UFT	C5-C4	3.96	1.52	1.43
1	A	26	UFT	C2'-C3'	-3.96	1.47	1.52
1	A	43	UFT	C2'-C3'	-3.96	1.47	1.52
1	A	549	UFT	C2'-C3'	-3.95	1.47	1.52
1	A	488	UFT	C2'-C3'	-3.95	1.47	1.52
1	A	287	CFZ	C2-N3	3.95	1.44	1.36
1	A	348	UFT	C2'-C3'	-3.94	1.47	1.52
1	A	93	CFZ	C2-N3	3.94	1.44	1.36
1	A	450	UFT	C2'-C3'	-3.94	1.47	1.52
1	A	491	UFT	C2'-C3'	-3.93	1.47	1.52
1	A	285	UFT	C2'-C3'	-3.93	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	165	UFT	C2'-C3'	-3.92	1.47	1.52
1	A	541	UFT	C2'-C3'	-3.91	1.47	1.52
1	A	388	UFT	C2'-C3'	-3.91	1.47	1.52
1	A	412	UFT	C2'-C3'	-3.91	1.47	1.52
1	A	63	UFT	C2'-C3'	-3.89	1.47	1.52
1	A	265	UFT	C2'-C3'	-3.89	1.47	1.52
1	A	234	UFT	C2'-C3'	-3.89	1.47	1.52
1	A	470	UFT	C2'-C3'	-3.89	1.47	1.52
1	A	523	UFT	C2'-C3'	-3.89	1.47	1.52
1	A	188	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	39	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	350	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	170	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	320	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	339	UFT	C2'-C3'	-3.88	1.47	1.52
1	A	389	UFT	C2'-C3'	-3.87	1.47	1.52
1	A	411	UFT	C2'-C3'	-3.87	1.47	1.52
1	A	432	UFT	C2'-C3'	-3.87	1.47	1.52
1	A	28	UFT	C2'-C3'	-3.87	1.47	1.52
1	A	243	UFT	C2'-C3'	-3.87	1.47	1.52
1	A	421	UFT	C2'-C3'	-3.86	1.47	1.52
1	A	545	UFT	C2'-C3'	-3.85	1.47	1.52
1	A	87	UFT	C2'-C3'	-3.85	1.47	1.52
1	A	254	UFT	C2'-C3'	-3.85	1.47	1.52
1	A	88	UFT	C2'-C3'	-3.84	1.47	1.52
1	A	96	UFT	C2'-C3'	-3.83	1.47	1.52
1	A	540	UFT	C2'-C3'	-3.83	1.47	1.52
1	A	151	UFT	C2'-C3'	-3.83	1.47	1.52
1	A	406	UFT	C2'-C3'	-3.83	1.47	1.52
1	A	55	UFT	C2'-C3'	-3.80	1.47	1.52
1	A	212	UFT	C2'-C3'	-3.80	1.47	1.52
1	A	258	UFT	C2'-C3'	-3.79	1.47	1.52
1	A	114	UFT	C2'-C3'	-3.78	1.47	1.52
1	A	134	UFT	C2'-C3'	-3.78	1.47	1.52
1	A	47	UFT	C2'-C3'	-3.77	1.47	1.52
1	A	492	UFT	C2'-C3'	-3.77	1.47	1.52
1	A	439	UFT	C2'-C3'	-3.76	1.47	1.52
1	A	34	UFT	C2'-C3'	-3.75	1.47	1.52
1	A	215	UFT	C2'-C3'	-3.75	1.47	1.52
1	A	318	UFT	C2'-C3'	-3.75	1.47	1.52
1	A	391	UFT	C2'-C3'	-3.74	1.47	1.52
1	A	479	UFT	C2'-C3'	-3.74	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	156	UFT	C2'-C3'	-3.73	1.47	1.52
1	A	511	UFT	C2'-C3'	-3.72	1.47	1.52
1	A	461	UFT	C2'-C3'	-3.72	1.47	1.52
1	A	340	UFT	C2'-C3'	-3.71	1.47	1.52
1	A	27	UFT	C2'-C3'	-3.71	1.47	1.52
1	A	191	UFT	C2'-C3'	-3.70	1.47	1.52
1	A	319	UFT	C2'-C3'	-3.70	1.47	1.52
1	A	162	CFZ	O2-C2	3.69	1.30	1.23
1	A	499	UFT	C2'-C3'	-3.69	1.47	1.52
1	A	386	CFZ	O2-C2	3.69	1.30	1.23
1	A	48	UFT	C2'-C3'	-3.68	1.47	1.52
1	A	97	UFT	C2'-C3'	-3.68	1.47	1.52
1	A	35	UFT	C2'-C3'	-3.68	1.47	1.52
1	A	398	UFT	C2'-C3'	-3.68	1.47	1.52
1	A	194	UFT	C2'-C3'	-3.67	1.47	1.52
1	A	289	CFZ	O2-C2	3.67	1.30	1.23
1	A	313	CFZ	O2-C2	3.66	1.30	1.23
1	A	435	CFZ	O2-C2	3.66	1.30	1.23
1	A	457	CFZ	O2-C2	3.66	1.30	1.23
1	A	72	CFZ	O2-C2	3.66	1.30	1.23
1	A	529	UFT	C2'-C3'	-3.65	1.47	1.52
1	A	480	UFT	C2'-C3'	-3.65	1.47	1.52
1	A	341	CFZ	O2-C2	3.65	1.30	1.23
1	A	440	CFZ	O2-C2	3.65	1.30	1.23
1	A	460	UFT	C2'-C3'	-3.65	1.47	1.52
1	A	498	UFT	C2'-C3'	-3.64	1.47	1.52
1	A	211	CFZ	O2-C2	3.64	1.30	1.23
1	A	298	CFZ	O2-C2	3.64	1.30	1.23
1	A	512	CFZ	O2-C2	3.64	1.30	1.23
1	A	527	CFZ	O2-C2	3.64	1.30	1.23
1	A	530	CFZ	O2-C2	3.64	1.30	1.23
1	A	177	CFZ	O2-C2	3.64	1.30	1.23
1	A	115	UFT	C2'-C3'	-3.63	1.47	1.52
1	A	104	CFZ	O2-C2	3.63	1.30	1.23
1	A	171	UFT	C2'-C3'	-3.63	1.47	1.52
1	A	324	UFT	C2'-C3'	-3.63	1.47	1.52
1	A	179	CFZ	O2-C2	3.63	1.30	1.23
1	A	220	CFZ	O2-C2	3.63	1.30	1.23
1	A	29	CFZ	O2-C2	3.63	1.30	1.23
1	A	51	CFZ	O2-C2	3.62	1.30	1.23
1	A	105	UFT	C2'-C3'	-3.62	1.47	1.52
1	A	33	CFZ	O2-C2	3.62	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	302	CFZ	O2-C2	3.62	1.30	1.23
1	A	481	CFZ	O2-C2	3.62	1.30	1.23
1	A	64	CFZ	O2-C2	3.62	1.30	1.23
1	A	98	CFZ	O2-C2	3.61	1.30	1.23
1	A	387	CFZ	O2-C2	3.61	1.30	1.23
1	A	518	CFZ	O2-C2	3.61	1.30	1.23
1	A	297	CFZ	O2-C2	3.61	1.30	1.23
1	A	264	CFZ	O2-C2	3.61	1.30	1.23
1	A	127	CFZ	O2-C2	3.61	1.30	1.23
1	A	216	CFZ	O2-C2	3.61	1.30	1.23
1	A	502	CFZ	O2-C2	3.61	1.30	1.23
1	A	525	CFZ	O2-C2	3.61	1.30	1.23
1	A	230	CFZ	O2-C2	3.60	1.30	1.23
1	A	344	CFZ	O2-C2	3.60	1.30	1.23
1	A	287	CFZ	O2-C2	3.60	1.30	1.23
1	A	67	CFZ	O2-C2	3.60	1.30	1.23
1	A	454	CFZ	O2-C2	3.60	1.30	1.23
1	A	4	CFZ	O2-C2	3.60	1.30	1.23
1	A	259	CFZ	O2-C2	3.60	1.30	1.23
1	A	262	CFZ	O2-C2	3.60	1.30	1.23
1	A	146	CFZ	O2-C2	3.60	1.30	1.23
1	A	278	CFZ	O2-C2	3.60	1.30	1.23
1	A	487	CFZ	O2-C2	3.60	1.30	1.23
1	A	495	CFZ	O2-C2	3.60	1.30	1.23
1	A	301	CFZ	O2-C2	3.60	1.30	1.23
1	A	354	CFZ	O2-C2	3.60	1.30	1.23
1	A	116	CFZ	O2-C2	3.59	1.30	1.23
1	A	257	CFZ	O2-C2	3.59	1.30	1.23
1	A	303	CFZ	O2-C2	3.59	1.30	1.23
1	A	246	CFZ	O2-C2	3.59	1.30	1.23
1	A	6	CFZ	O2-C2	3.59	1.30	1.23
1	A	419	CFZ	O2-C2	3.59	1.30	1.23
1	A	95	UFT	C2'-C3'	-3.59	1.47	1.52
1	A	108	CFZ	O2-C2	3.58	1.30	1.23
1	A	314	CFZ	O2-C2	3.58	1.30	1.23
1	A	436	CFZ	O2-C2	3.58	1.30	1.23
1	A	229	CFZ	O2-C2	3.58	1.30	1.23
1	A	404	CFZ	O2-C2	3.58	1.30	1.23
1	A	501	CFZ	O2-C2	3.58	1.30	1.23
1	A	10	CFZ	O2-C2	3.58	1.30	1.23
1	A	49	CFZ	O2-C2	3.58	1.30	1.23
1	A	368	CFZ	O2-C2	3.58	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	374	CFZ	O2-C2	3.58	1.30	1.23
1	A	251	CFZ	O2-C2	3.58	1.30	1.23
1	A	12	CFZ	O2-C2	3.57	1.30	1.23
1	A	337	CFZ	O2-C2	3.57	1.30	1.23
1	A	32	CFZ	O2-C2	3.57	1.30	1.23
1	A	496	CFZ	O2-C2	3.57	1.30	1.23
1	A	132	CFZ	O2-C2	3.57	1.30	1.23
1	A	209	CFZ	O2-C2	3.57	1.30	1.23
1	A	349	CFZ	O2-C2	3.57	1.30	1.23
1	A	125	CFZ	O2-C2	3.57	1.30	1.23
1	A	503	CFZ	O2-C2	3.57	1.30	1.23
1	A	124	CFZ	O2-C2	3.56	1.30	1.23
1	A	281	CFZ	O2-C2	3.56	1.30	1.23
1	A	508	CFZ	O2-C2	3.56	1.30	1.23
1	A	445	CFZ	O2-C2	3.56	1.30	1.23
1	A	325	CFZ	O2-C2	3.56	1.30	1.23
1	A	402	CFZ	O2-C2	3.56	1.30	1.23
1	A	283	CFZ	O2-C2	3.56	1.30	1.23
1	A	413	CFZ	O2-C2	3.56	1.30	1.23
1	A	174	CFZ	O2-C2	3.56	1.30	1.23
1	A	437	CFZ	O2-C2	3.56	1.30	1.23
1	A	113	CFZ	O2-C2	3.56	1.30	1.23
1	A	472	CFZ	O2-C2	3.56	1.30	1.23
1	A	539	CFZ	O2-C2	3.56	1.30	1.23
1	A	89	CFZ	O2-C2	3.55	1.30	1.23
1	A	462	CFZ	O2-C2	3.55	1.30	1.23
1	A	279	CFZ	O2-C2	3.55	1.30	1.23
1	A	452	CFZ	O2-C2	3.55	1.30	1.23
1	A	506	CFZ	O2-C2	3.55	1.30	1.23
1	A	280	CFZ	O2-C2	3.55	1.30	1.23
1	A	407	CFZ	O2-C2	3.55	1.30	1.23
1	A	75	CFZ	O2-C2	3.55	1.30	1.23
1	A	183	CFZ	O2-C2	3.55	1.30	1.23
1	A	11	CFZ	O2-C2	3.55	1.30	1.23
1	A	250	CFZ	O2-C2	3.55	1.30	1.23
1	A	76	CFZ	O2-C2	3.55	1.30	1.23
1	A	490	CFZ	O2-C2	3.54	1.30	1.23
1	A	101	CFZ	O2-C2	3.54	1.30	1.23
1	A	428	CFZ	O2-C2	3.54	1.30	1.23
1	A	36	CFZ	O2-C2	3.54	1.30	1.23
1	A	364	CFZ	O2-C2	3.54	1.30	1.23
1	A	467	CFZ	O2-C2	3.54	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	346	CFZ	O2-C2	3.54	1.30	1.23
1	A	468	CFZ	O2-C2	3.54	1.30	1.23
1	A	160	CFZ	O2-C2	3.53	1.30	1.23
1	A	225	CFZ	O2-C2	3.53	1.30	1.23
1	A	500	CFZ	O2-C2	3.53	1.30	1.23
1	A	84	CFZ	O2-C2	3.53	1.30	1.23
1	A	255	CFZ	O2-C2	3.53	1.30	1.23
1	A	415	CFZ	O2-C2	3.53	1.30	1.23
1	A	41	CFZ	O2-C2	3.53	1.30	1.23
1	A	213	CFZ	O2-C2	3.53	1.30	1.23
1	A	252	CFZ	O2-C2	3.53	1.30	1.23
1	A	78	CFZ	O2-C2	3.53	1.30	1.23
1	A	380	CFZ	O2-C2	3.53	1.30	1.23
1	A	144	CFZ	O2-C2	3.53	1.30	1.23
1	A	510	UFT	C2'-C3'	-3.53	1.47	1.52
1	A	40	CFZ	O2-C2	3.52	1.30	1.23
1	A	111	CFZ	O2-C2	3.52	1.30	1.23
1	A	163	CFZ	O2-C2	3.52	1.30	1.23
1	A	430	CFZ	O2-C2	3.52	1.30	1.23
1	A	307	CFZ	O2-C2	3.51	1.30	1.23
1	A	448	CFZ	O2-C2	3.51	1.30	1.23
1	A	433	CFZ	O2-C2	3.51	1.30	1.23
1	A	483	CFZ	O2-C2	3.51	1.30	1.23
1	A	476	CFZ	O2-C2	3.51	1.30	1.23
1	A	20	CFZ	O2-C2	3.51	1.30	1.23
1	A	342	CFZ	O2-C2	3.51	1.30	1.23
1	A	475	CFZ	O2-C2	3.50	1.30	1.23
1	A	110	CFZ	O2-C2	3.50	1.30	1.23
1	A	223	CFZ	O2-C2	3.50	1.30	1.23
1	A	310	CFZ	O2-C2	3.50	1.30	1.23
1	A	504	UFT	C2'-C3'	-3.49	1.47	1.52
1	A	109	CFZ	O2-C2	3.49	1.30	1.23
1	A	507	CFZ	O2-C2	3.49	1.30	1.23
1	A	210	CFZ	O2-C2	3.48	1.30	1.23
1	A	93	CFZ	O2-C2	3.48	1.30	1.23
1	A	522	CFZ	O2-C2	3.47	1.30	1.23
1	A	333	CFZ	O2-C2	3.47	1.30	1.23
1	A	429	CFZ	O2-C2	3.44	1.30	1.23
1	A	397	CFZ	O2-C2	3.44	1.30	1.23
1	A	154	CFZ	O2-C2	3.40	1.30	1.23
1	A	246	CFZ	O4'-C1'	3.34	1.49	1.42
1	A	437	CFZ	O4'-C1'	3.31	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	430	CFZ	O4'-C1'	3.30	1.49	1.42
1	A	78	CFZ	O4'-C1'	3.29	1.49	1.42
1	A	539	CFZ	C2'-C1'	-3.29	1.48	1.53
1	A	127	CFZ	O4'-C1'	3.28	1.49	1.42
1	A	289	CFZ	O4'-C1'	3.26	1.49	1.42
1	A	402	CFZ	O4'-C1'	3.26	1.49	1.42
1	A	6	CFZ	O4'-C1'	3.25	1.49	1.42
1	A	436	CFZ	O4'-C1'	3.25	1.49	1.42
1	A	435	CFZ	O4'-C1'	3.25	1.49	1.42
1	A	283	CFZ	O4'-C1'	3.25	1.49	1.42
1	A	525	CFZ	O4'-C1'	3.25	1.49	1.42
1	A	4	CFZ	O4'-C1'	3.24	1.49	1.42
1	A	287	CFZ	O4'-C1'	3.24	1.49	1.42
1	A	93	CFZ	O4'-C1'	3.24	1.49	1.42
1	A	457	CFZ	O4'-C1'	3.24	1.49	1.42
1	A	89	CFZ	O4'-C1'	3.23	1.49	1.42
1	A	380	CFZ	O4'-C1'	3.23	1.49	1.42
1	A	413	CFZ	O4'-C1'	3.23	1.49	1.42
1	A	162	CFZ	O4'-C1'	3.22	1.49	1.42
1	A	113	CFZ	O4'-C1'	3.22	1.49	1.42
1	A	111	CFZ	O4'-C1'	3.22	1.49	1.42
1	A	468	CFZ	O4'-C1'	3.22	1.49	1.42
1	A	33	CFZ	C2'-C1'	-3.22	1.48	1.53
1	A	230	CFZ	O4'-C1'	3.22	1.49	1.42
1	A	349	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	211	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	314	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	342	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	132	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	264	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	216	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	341	CFZ	O4'-C1'	3.21	1.49	1.42
1	A	415	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	281	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	40	CFZ	C2'-C1'	-3.20	1.48	1.53
1	A	476	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	472	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	354	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	220	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	368	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	279	CFZ	O4'-C1'	3.20	1.49	1.42
1	A	72	CFZ	O4'-C1'	3.19	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	179	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	76	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	89	CFZ	C2'-C1'	-3.19	1.49	1.53
1	A	314	CFZ	C2'-C1'	-3.19	1.49	1.53
1	A	298	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	84	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	65	UFT	C2'-C3'	-3.19	1.48	1.52
1	A	75	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	278	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	303	CFZ	O4'-C1'	3.19	1.49	1.42
1	A	109	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	501	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	386	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	454	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	163	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	407	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	467	CFZ	C2'-C1'	-3.18	1.49	1.53
1	A	110	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	301	CFZ	O4'-C1'	3.18	1.49	1.42
1	A	487	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	346	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	12	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	211	CFZ	C2'-C1'	-3.17	1.49	1.53
1	A	11	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	125	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	160	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	506	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	518	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	433	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	51	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	213	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	250	CFZ	O4'-C1'	3.17	1.49	1.42
1	A	507	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	344	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	527	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	75	CFZ	C2'-C1'	-3.16	1.49	1.53
1	A	124	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	397	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	251	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	104	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	146	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	428	CFZ	O4'-C1'	3.16	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	506	CFZ	C2'-C1'	-3.16	1.49	1.53
1	A	495	CFZ	O4'-C1'	3.16	1.49	1.42
1	A	108	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	177	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	280	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	337	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	539	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	10	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	374	CFZ	O4'-C1'	3.15	1.49	1.42
1	A	41	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	255	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	262	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	32	CFZ	C2'-C1'	-3.14	1.49	1.53
1	A	364	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	475	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	33	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	502	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	144	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	223	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	419	CFZ	O4'-C1'	3.14	1.49	1.42
1	A	174	CFZ	O4'-C1'	3.13	1.49	1.42
1	A	522	CFZ	O4'-C1'	3.13	1.49	1.42
1	A	302	CFZ	O4'-C1'	3.13	1.49	1.42
1	A	404	CFZ	O4'-C1'	3.13	1.49	1.42
1	A	496	CFZ	O4'-C1'	3.13	1.49	1.42
1	A	104	CFZ	C2'-C1'	-3.13	1.49	1.53
1	A	467	CFZ	O4'-C1'	3.12	1.49	1.42
1	A	508	CFZ	O4'-C1'	3.12	1.49	1.42
1	A	36	CFZ	O4'-C1'	3.12	1.49	1.42
1	A	209	CFZ	O4'-C1'	3.12	1.49	1.42
1	A	391	UFT	O4-C4	-3.12	1.18	1.24
1	A	183	CFZ	O4'-C1'	3.12	1.49	1.42
1	A	125	CFZ	C2'-C1'	-3.12	1.49	1.53
1	A	257	CFZ	O4'-C1'	3.11	1.49	1.42
1	A	64	CFZ	O4'-C1'	3.11	1.49	1.42
1	A	448	CFZ	O4'-C1'	3.11	1.49	1.42
1	A	483	CFZ	O4'-C1'	3.10	1.49	1.42
1	A	430	CFZ	C2'-C1'	-3.10	1.49	1.53
1	A	530	CFZ	O4'-C1'	3.10	1.49	1.42
1	A	101	CFZ	C2'-C1'	-3.10	1.49	1.53
1	A	101	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	490	CFZ	O4'-C1'	3.09	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	32	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	252	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	307	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	20	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	259	CFZ	O4'-C1'	3.09	1.49	1.42
1	A	220	CFZ	C2'-C1'	-3.09	1.49	1.53
1	A	154	CFZ	O4'-C1'	3.08	1.49	1.42
1	A	66	UFT	C2'-C3'	-3.08	1.48	1.52
1	A	503	CFZ	O4'-C1'	3.07	1.49	1.42
1	A	229	CFZ	O4'-C1'	3.07	1.49	1.42
1	A	230	CFZ	C2'-C1'	-3.07	1.49	1.53
1	A	251	CFZ	C2'-C1'	-3.07	1.49	1.53
1	A	540	UFT	O4-C4	-3.07	1.18	1.24
1	A	325	CFZ	O4'-C1'	3.07	1.49	1.42
1	A	264	CFZ	C2'-C1'	-3.07	1.49	1.53
1	A	388	UFT	O4-C4	-3.06	1.18	1.24
1	A	210	CFZ	O4'-C1'	3.06	1.49	1.42
1	A	313	CFZ	O4'-C1'	3.06	1.49	1.42
1	A	490	CFZ	C2'-C1'	-3.06	1.49	1.53
1	A	297	CFZ	O4'-C1'	3.06	1.49	1.42
1	A	445	CFZ	O4'-C1'	3.06	1.49	1.42
1	A	134	UFT	O4-C4	-3.05	1.18	1.24
1	A	452	CFZ	O4'-C1'	3.05	1.49	1.42
1	A	40	CFZ	O4'-C1'	3.05	1.49	1.42
1	A	429	CFZ	O4'-C1'	3.05	1.49	1.42
1	A	170	UFT	O4-C4	-3.04	1.18	1.24
1	A	504	UFT	O4-C4	-3.04	1.18	1.24
1	A	310	CFZ	O4'-C1'	3.03	1.49	1.42
1	A	171	UFT	O4-C4	-3.02	1.18	1.24
1	A	310	CFZ	C2'-C1'	-3.02	1.49	1.53
1	A	215	UFT	O4-C4	-3.02	1.18	1.24
1	A	387	CFZ	O4'-C1'	3.02	1.49	1.42
1	A	481	CFZ	C2'-C1'	-3.01	1.49	1.53
1	A	55	UFT	O4-C4	-3.01	1.18	1.24
1	A	318	UFT	O4-C4	-3.01	1.18	1.24
1	A	225	CFZ	C2'-C1'	-3.01	1.49	1.53
1	A	178	UFT	O4-C4	-3.01	1.18	1.24
1	A	29	CFZ	O4'-C1'	3.01	1.49	1.42
1	A	386	CFZ	C2'-C1'	-3.01	1.49	1.53
1	A	95	UFT	O4-C4	-3.00	1.18	1.24
1	A	170	UFT	C2'-C1'	-3.00	1.49	1.53
1	A	116	CFZ	O4'-C1'	2.99	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	333	CFZ	O4'-C1'	2.99	1.49	1.42
1	A	225	CFZ	O4'-C1'	2.99	1.49	1.42
1	A	191	UFT	O4-C4	-2.99	1.18	1.24
1	A	98	CFZ	O4'-C1'	2.98	1.49	1.42
1	A	124	CFZ	C2'-C1'	-2.98	1.49	1.53
1	A	212	UFT	O4-C4	-2.98	1.18	1.24
1	A	389	UFT	O4-C4	-2.98	1.18	1.24
1	A	194	UFT	O4-C4	-2.98	1.18	1.24
1	A	385	UFT	O4-C4	-2.98	1.18	1.24
1	A	440	CFZ	O4'-C1'	2.98	1.49	1.42
1	A	281	CFZ	C2'-C1'	-2.97	1.49	1.53
1	A	85	UFT	O4-C4	-2.97	1.18	1.24
1	A	280	CFZ	C2'-C1'	-2.97	1.49	1.53
1	A	156	UFT	O4-C4	-2.97	1.18	1.24
1	A	67	CFZ	O4'-C1'	2.97	1.49	1.42
1	A	481	CFZ	O4'-C1'	2.97	1.49	1.42
1	A	491	UFT	O4-C4	-2.96	1.18	1.24
1	A	509	UFT	O4-C4	-2.96	1.18	1.24
1	A	116	CFZ	C2'-C1'	-2.96	1.49	1.53
1	A	28	UFT	O4-C4	-2.96	1.18	1.24
1	A	340	UFT	O4-C4	-2.96	1.18	1.24
1	A	450	UFT	O4-C4	-2.96	1.18	1.24
1	A	470	UFT	O4-C4	-2.96	1.18	1.24
1	A	165	UFT	O4-C4	-2.96	1.18	1.24
1	A	545	UFT	O4-C4	-2.95	1.18	1.24
1	A	35	UFT	O4-C4	-2.95	1.18	1.24
1	A	500	CFZ	O4'-C1'	2.95	1.49	1.42
1	A	487	CFZ	C2'-C1'	-2.95	1.49	1.53
1	A	250	CFZ	C2'-C1'	-2.95	1.49	1.53
1	A	47	UFT	O4-C4	-2.95	1.18	1.24
1	A	166	UFT	O4-C4	-2.95	1.18	1.24
1	A	349	CFZ	C2'-C1'	-2.95	1.49	1.53
1	A	477	UFT	O4-C4	-2.95	1.18	1.24
1	A	49	CFZ	O4'-C1'	2.95	1.49	1.42
1	A	27	UFT	O4-C4	-2.95	1.18	1.24
1	A	133	UFT	O4-C4	-2.95	1.18	1.24
1	A	234	UFT	O4-C4	-2.95	1.18	1.24
1	A	44	UFT	O4-C4	-2.95	1.18	1.24
1	A	503	CFZ	C2'-C1'	-2.95	1.49	1.53
1	A	8	UFT	O4-C4	-2.94	1.18	1.24
1	A	285	UFT	O4-C4	-2.94	1.18	1.24
1	A	319	UFT	O4-C4	-2.94	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	498	UFT	O4-C4	-2.94	1.18	1.24
1	A	529	UFT	O4-C4	-2.94	1.18	1.24
1	A	324	UFT	O4-C4	-2.94	1.18	1.24
1	A	460	UFT	O4-C4	-2.94	1.18	1.24
1	A	163	CFZ	C2'-C1'	-2.94	1.49	1.53
1	A	206	UFT	O4-C4	-2.94	1.18	1.24
1	A	439	UFT	O4-C4	-2.94	1.18	1.24
1	A	13	UFT	O4-C4	-2.94	1.18	1.24
1	A	156	UFT	C2'-C1'	-2.94	1.49	1.53
1	A	512	CFZ	O4'-C1'	2.94	1.49	1.42
1	A	65	UFT	O4-C4	-2.93	1.18	1.24
1	A	286	UFT	O4-C4	-2.93	1.18	1.24
1	A	216	CFZ	C2'-C1'	-2.93	1.49	1.53
1	A	341	CFZ	C2'-C1'	-2.93	1.49	1.53
1	A	66	UFT	O4-C4	-2.93	1.18	1.24
1	A	237	UFT	O4-C4	-2.93	1.18	1.24
1	A	67	CFZ	C2'-C1'	-2.93	1.49	1.53
1	A	247	UFT	O4-C4	-2.93	1.18	1.24
1	A	162	CFZ	C2'-C1'	-2.93	1.49	1.53
1	A	272	UFT	O4-C4	-2.93	1.18	1.24
1	A	76	CFZ	C2'-C1'	-2.93	1.49	1.53
1	A	523	UFT	O4-C4	-2.93	1.18	1.24
1	A	528	UFT	O4-C4	-2.93	1.18	1.24
1	A	92	UFT	O4-C4	-2.92	1.18	1.24
1	A	541	UFT	O4-C4	-2.92	1.18	1.24
1	A	440	CFZ	C2'-C1'	-2.92	1.49	1.53
1	A	96	UFT	O4-C4	-2.92	1.18	1.24
1	A	411	UFT	O4-C4	-2.92	1.18	1.24
1	A	14	UFT	O4-C4	-2.92	1.18	1.24
1	A	229	CFZ	C2'-C1'	-2.92	1.49	1.53
1	A	297	CFZ	C2'-C1'	-2.92	1.49	1.53
1	A	48	UFT	O4-C4	-2.92	1.18	1.24
1	A	499	UFT	O4-C4	-2.92	1.18	1.24
1	A	462	CFZ	O4'-C1'	2.92	1.48	1.42
1	A	39	UFT	O4-C4	-2.92	1.18	1.24
1	A	83	UFT	O4-C4	-2.92	1.18	1.24
1	A	97	UFT	O4-C4	-2.92	1.18	1.24
1	A	445	CFZ	C2'-C1'	-2.92	1.49	1.53
1	A	184	UFT	O4-C4	-2.92	1.18	1.24
1	A	549	UFT	O4-C4	-2.92	1.18	1.24
1	A	43	UFT	O4-C4	-2.91	1.18	1.24
1	A	15	UFT	O4-C4	-2.91	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	480	UFT	O4-C4	-2.91	1.18	1.24
1	A	18	UFT	O4-C4	-2.91	1.18	1.24
1	A	114	UFT	O4-C4	-2.91	1.18	1.24
1	A	151	UFT	O4-C4	-2.91	1.18	1.24
1	A	510	UFT	O4-C4	-2.91	1.18	1.24
1	A	279	CFZ	C2'-C1'	-2.91	1.49	1.53
1	A	350	UFT	O4-C4	-2.91	1.18	1.24
1	A	26	UFT	O4-C4	-2.90	1.18	1.24
1	A	153	UFT	O4-C4	-2.90	1.18	1.24
1	A	243	UFT	O4-C4	-2.90	1.18	1.24
1	A	399	UFT	O4-C4	-2.90	1.18	1.24
1	A	492	UFT	O4-C4	-2.90	1.18	1.24
1	A	400	UFT	O4-C4	-2.90	1.18	1.24
1	A	526	UFT	O4-C4	-2.90	1.18	1.24
1	A	223	CFZ	C2'-C1'	-2.90	1.49	1.53
1	A	406	UFT	O4-C4	-2.90	1.18	1.24
1	A	278	CFZ	C2'-C1'	-2.90	1.49	1.53
1	A	313	CFZ	C2'-C1'	-2.90	1.49	1.53
1	A	488	UFT	O4-C4	-2.90	1.18	1.24
1	A	110	CFZ	C2'-C1'	-2.90	1.49	1.53
1	A	147	UFT	O4-C4	-2.89	1.18	1.24
1	A	438	UFT	O4-C4	-2.89	1.18	1.24
1	A	130	UFT	O4-C4	-2.89	1.18	1.24
1	A	63	UFT	O4-C4	-2.89	1.18	1.24
1	A	461	UFT	O4-C4	-2.89	1.18	1.24
1	A	167	UFT	O4-C4	-2.89	1.18	1.24
1	A	421	UFT	O4-C4	-2.89	1.18	1.24
1	A	34	UFT	O4-C4	-2.89	1.18	1.24
1	A	243	UFT	C2'-C1'	-2.89	1.49	1.53
1	A	88	UFT	O4-C4	-2.89	1.18	1.24
1	A	479	UFT	O4-C4	-2.89	1.18	1.24
1	A	398	UFT	O4-C4	-2.89	1.18	1.24
1	A	301	CFZ	C2'-C1'	-2.89	1.49	1.53
1	A	262	CFZ	C2'-C1'	-2.89	1.49	1.53
1	A	7	UFT	O4-C4	-2.89	1.18	1.24
1	A	98	CFZ	C2'-C1'	-2.89	1.49	1.53
1	A	87	UFT	O4-C4	-2.88	1.18	1.24
1	A	415	CFZ	C2'-C1'	-2.88	1.49	1.53
1	A	358	UFT	O4-C4	-2.88	1.18	1.24
1	A	459	UFT	O4-C4	-2.88	1.18	1.24
1	A	188	UFT	O4-C4	-2.88	1.18	1.24
1	A	511	UFT	O4-C4	-2.88	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	407	CFZ	C2'-C1'	-2.88	1.49	1.53
1	A	257	CFZ	C2'-C1'	-2.88	1.49	1.53
1	A	412	UFT	O4-C4	-2.88	1.18	1.24
1	A	258	UFT	O4-C4	-2.88	1.18	1.24
1	A	183	CFZ	C2'-C1'	-2.88	1.49	1.53
1	A	146	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	364	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	368	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	501	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	115	UFT	O4-C4	-2.87	1.18	1.24
1	A	221	UFT	O4-C4	-2.87	1.18	1.24
1	A	265	UFT	O4-C4	-2.87	1.18	1.24
1	A	132	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	357	UFT	O4-C4	-2.87	1.18	1.24
1	A	283	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	483	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	507	CFZ	C2'-C1'	-2.87	1.49	1.53
1	A	465	UFT	O4-C4	-2.87	1.18	1.24
1	A	318	UFT	C2'-C1'	-2.87	1.49	1.53
1	A	528	UFT	C2'-C1'	-2.87	1.49	1.53
1	A	41	CFZ	C2'-C1'	-2.86	1.49	1.53
1	A	140	UFT	O4-C4	-2.86	1.18	1.24
1	A	452	CFZ	C2'-C1'	-2.86	1.49	1.53
1	A	108	CFZ	C2'-C1'	-2.86	1.49	1.53
1	A	333	CFZ	C2'-C1'	-2.86	1.49	1.53
1	A	105	UFT	O4-C4	-2.86	1.18	1.24
1	A	397	CFZ	C2'-C1'	-2.85	1.49	1.53
1	A	429	CFZ	C2'-C1'	-2.85	1.49	1.53
1	A	432	UFT	O4-C4	-2.85	1.19	1.24
1	A	499	UFT	C2'-C1'	-2.85	1.49	1.53
1	A	252	CFZ	C2'-C1'	-2.85	1.49	1.53
1	A	291	UFT	O4-C4	-2.85	1.19	1.24
1	A	522	CFZ	C2'-C1'	-2.85	1.49	1.53
1	A	454	CFZ	C2'-C1'	-2.85	1.49	1.53
1	A	45	UFT	O4-C4	-2.84	1.19	1.24
1	A	535	UFT	O4-C4	-2.84	1.19	1.24
1	A	325	CFZ	C2'-C1'	-2.84	1.49	1.53
1	A	209	CFZ	C2'-C1'	-2.83	1.49	1.53
1	A	348	UFT	O4-C4	-2.83	1.19	1.24
1	A	71	UFT	O4-C4	-2.83	1.19	1.24
1	A	365	UFT	O4-C4	-2.83	1.19	1.24
1	A	11	CFZ	C2'-C1'	-2.83	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	12	CFZ	C2'-C1'	-2.83	1.49	1.53
1	A	175	UFT	O4-C4	-2.83	1.19	1.24
1	A	502	CFZ	C2'-C1'	-2.82	1.49	1.53
1	A	387	CFZ	C2'-C1'	-2.82	1.49	1.53
1	A	29	CFZ	C2'-C1'	-2.82	1.49	1.53
1	A	518	CFZ	C2'-C1'	-2.82	1.49	1.53
1	A	119	UFT	O4-C4	-2.82	1.19	1.24
1	A	10	CFZ	C2'-C1'	-2.82	1.49	1.53
1	A	543	UFT	O4-C4	-2.81	1.19	1.24
1	A	144	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	307	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	462	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	109	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	374	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	495	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	60	UFT	O4-C4	-2.81	1.19	1.24
1	A	254	UFT	O4-C4	-2.81	1.19	1.24
1	A	74	UFT	O4-C4	-2.81	1.19	1.24
1	A	298	CFZ	C2'-C1'	-2.81	1.49	1.53
1	A	228	UFT	O4-C4	-2.81	1.19	1.24
1	A	423	UFT	O4-C4	-2.81	1.19	1.24
1	A	127	CFZ	C2'-C1'	-2.80	1.49	1.53
1	A	340	UFT	C2'-C1'	-2.80	1.49	1.53
1	A	508	CFZ	C2'-C1'	-2.80	1.49	1.53
1	A	49	CFZ	C2'-C1'	-2.80	1.49	1.53
1	A	337	CFZ	C2'-C1'	-2.80	1.49	1.53
1	A	476	CFZ	C2'-C1'	-2.80	1.49	1.53
1	A	80	UFT	O4-C4	-2.79	1.19	1.24
1	A	282	UFT	O4-C4	-2.79	1.19	1.24
1	A	500	CFZ	C2'-C1'	-2.79	1.49	1.53
1	A	134	UFT	C2-N3	2.79	1.42	1.38
1	A	512	CFZ	C2'-C1'	-2.79	1.49	1.53
1	A	538	UFT	O4-C4	-2.79	1.19	1.24
1	A	174	CFZ	C2'-C1'	-2.79	1.49	1.53
1	A	111	CFZ	C2'-C1'	-2.79	1.49	1.53
1	A	496	CFZ	C2'-C1'	-2.78	1.49	1.53
1	A	354	CFZ	C2'-C1'	-2.78	1.49	1.53
1	A	331	UFT	O4-C4	-2.78	1.19	1.24
1	A	339	UFT	O4-C4	-2.78	1.19	1.24
1	A	448	CFZ	C2'-C1'	-2.78	1.49	1.53
1	A	72	CFZ	C2'-C1'	-2.78	1.49	1.53
1	A	84	CFZ	C2'-C1'	-2.78	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	346	CFZ	C2'-C1'	-2.77	1.49	1.53
1	A	433	CFZ	C2'-C1'	-2.77	1.49	1.53
1	A	303	CFZ	C2'-C1'	-2.77	1.49	1.53
1	A	391	UFT	C2-N3	2.77	1.42	1.38
1	A	436	CFZ	C2'-C1'	-2.76	1.49	1.53
1	A	527	CFZ	C2'-C1'	-2.76	1.49	1.53
1	A	380	CFZ	C2'-C1'	-2.76	1.49	1.53
1	A	366	UFT	O4-C4	-2.76	1.19	1.24
1	A	419	CFZ	C2'-C1'	-2.75	1.49	1.53
1	A	504	UFT	C2-N3	2.75	1.42	1.38
1	A	428	CFZ	C2'-C1'	-2.75	1.49	1.53
1	A	451	UFT	O4-C4	-2.75	1.19	1.24
1	A	210	CFZ	C2'-C1'	-2.75	1.49	1.53
1	A	406	UFT	C2'-C1'	-2.75	1.49	1.53
1	A	344	CFZ	C2'-C1'	-2.75	1.49	1.53
1	A	213	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	388	UFT	C2'-C1'	-2.74	1.49	1.53
1	A	64	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	154	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	413	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	4	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	468	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	437	CFZ	C2'-C1'	-2.74	1.49	1.53
1	A	457	CFZ	C2'-C1'	-2.73	1.49	1.53
1	A	247	UFT	O4'-C1'	2.73	1.48	1.42
1	A	342	CFZ	C2'-C1'	-2.73	1.49	1.53
1	A	276	UFT	O4-C4	-2.73	1.19	1.24
1	A	178	UFT	C2-N3	2.73	1.42	1.38
1	A	525	CFZ	C2'-C1'	-2.73	1.49	1.53
1	A	435	CFZ	C2'-C1'	-2.72	1.49	1.53
1	A	255	CFZ	C2'-C1'	-2.71	1.49	1.53
1	A	179	CFZ	C2'-C1'	-2.71	1.49	1.53
1	A	540	UFT	C2-N3	2.71	1.42	1.38
1	A	475	CFZ	C2'-C1'	-2.71	1.49	1.53
1	A	215	UFT	C2-N3	2.70	1.42	1.38
1	A	6	CFZ	C2'-C1'	-2.70	1.49	1.53
1	A	402	CFZ	C2'-C1'	-2.70	1.49	1.53
1	A	171	UFT	C2-N3	2.70	1.42	1.38
1	A	36	CFZ	C2'-C1'	-2.70	1.49	1.53
1	A	206	UFT	O4'-C1'	2.69	1.48	1.42
1	A	287	CFZ	C2'-C1'	-2.69	1.49	1.53
1	A	545	UFT	O2-C2	-2.69	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	289	CFZ	C2'-C1'	-2.69	1.49	1.53
1	A	212	UFT	C2-N3	2.68	1.42	1.38
1	A	404	CFZ	C2'-C1'	-2.68	1.49	1.53
1	A	20	CFZ	C2'-C1'	-2.68	1.49	1.53
1	A	491	UFT	C2'-C1'	-2.68	1.49	1.53
1	A	45	UFT	O4'-C1'	2.68	1.48	1.42
1	A	438	UFT	C2'-C1'	-2.68	1.49	1.53
1	A	498	UFT	C2-N3	2.67	1.42	1.38
1	A	44	UFT	O4'-C1'	2.67	1.48	1.42
1	A	78	CFZ	C2'-C1'	-2.67	1.49	1.53
1	A	259	CFZ	C2'-C1'	-2.67	1.49	1.53
1	A	318	UFT	C2-N3	2.67	1.42	1.38
1	A	51	CFZ	C2'-C1'	-2.66	1.49	1.53
1	A	165	UFT	C2-N3	2.66	1.42	1.38
1	A	95	UFT	C2-N3	2.66	1.42	1.38
1	A	93	CFZ	C2'-C1'	-2.65	1.49	1.53
1	A	246	CFZ	C2'-C1'	-2.65	1.49	1.53
1	A	178	UFT	O4'-C1'	2.65	1.48	1.42
1	A	540	UFT	C2'-C1'	-2.65	1.49	1.53
1	A	26	UFT	O4'-C1'	2.65	1.48	1.42
1	A	55	UFT	C2-N3	2.65	1.42	1.38
1	A	170	UFT	C2-N3	2.65	1.42	1.38
1	A	399	UFT	C2-N3	2.65	1.42	1.38
1	A	291	UFT	O4'-C1'	2.64	1.48	1.42
1	A	472	CFZ	C2'-C1'	-2.64	1.49	1.53
1	A	113	CFZ	C2'-C1'	-2.64	1.49	1.53
1	A	80	UFT	O4'-C1'	2.64	1.48	1.42
1	A	412	UFT	C2'-C1'	-2.64	1.49	1.53
1	A	134	UFT	O4'-C1'	2.64	1.48	1.42
1	A	153	UFT	C2-N3	2.64	1.42	1.38
1	A	286	UFT	C2-N3	2.64	1.42	1.38
1	A	166	UFT	O4'-C1'	2.64	1.48	1.42
1	A	194	UFT	C2-N3	2.64	1.42	1.38
1	A	34	UFT	C2'-C1'	-2.63	1.49	1.53
1	A	477	UFT	O4'-C1'	2.63	1.48	1.42
1	A	526	UFT	O4'-C1'	2.63	1.48	1.42
1	A	399	UFT	O4'-C1'	2.63	1.48	1.42
1	A	459	UFT	O4'-C1'	2.63	1.48	1.42
1	A	543	UFT	O4'-C1'	2.63	1.48	1.42
1	A	160	CFZ	C2'-C1'	-2.63	1.49	1.53
1	A	156	UFT	C2-N3	2.63	1.42	1.38
1	A	350	UFT	O4'-C1'	2.63	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	340	UFT	C2-N3	2.63	1.42	1.38
1	A	177	CFZ	C2'-C1'	-2.62	1.49	1.53
1	A	191	UFT	C2-N3	2.62	1.42	1.38
1	A	541	UFT	C2-N3	2.62	1.42	1.38
1	A	540	UFT	O4'-C1'	2.62	1.48	1.42
1	A	7	UFT	O4'-C1'	2.62	1.48	1.42
1	A	398	UFT	C2'-C1'	-2.62	1.49	1.53
1	A	320	UFT	O4-C4	-2.62	1.19	1.24
1	A	92	UFT	O4'-C1'	2.61	1.48	1.42
1	A	530	CFZ	C2'-C1'	-2.61	1.49	1.53
1	A	15	UFT	O4'-C1'	2.61	1.48	1.42
1	A	541	UFT	O4'-C1'	2.61	1.48	1.42
1	A	324	UFT	C2-N3	2.61	1.42	1.38
1	A	286	UFT	O4'-C1'	2.61	1.48	1.42
1	A	366	UFT	O4'-C1'	2.61	1.48	1.42
1	A	350	UFT	C2-N3	2.60	1.42	1.38
1	A	18	UFT	O4'-C1'	2.60	1.48	1.42
1	A	389	UFT	O4'-C1'	2.60	1.48	1.42
1	A	400	UFT	O4'-C1'	2.60	1.48	1.42
1	A	358	UFT	O4'-C1'	2.60	1.48	1.42
1	A	491	UFT	C2-N3	2.60	1.42	1.38
1	A	83	UFT	O4'-C1'	2.60	1.48	1.42
1	A	221	UFT	O4'-C1'	2.60	1.48	1.42
1	A	13	UFT	O4'-C1'	2.60	1.48	1.42
1	A	45	UFT	C2-N3	2.59	1.42	1.38
1	A	88	UFT	C2'-C1'	-2.59	1.49	1.53
1	A	71	UFT	O4'-C1'	2.59	1.48	1.42
1	A	15	UFT	C2-N3	2.59	1.42	1.38
1	A	165	UFT	O4'-C1'	2.59	1.48	1.42
1	A	388	UFT	O4'-C1'	2.59	1.48	1.42
1	A	535	UFT	O4'-C1'	2.59	1.48	1.42
1	A	411	UFT	C2-N3	2.59	1.42	1.38
1	A	178	UFT	C2'-C1'	-2.59	1.49	1.53
1	A	212	UFT	O4'-C1'	2.59	1.48	1.42
1	A	13	UFT	C2-N3	2.59	1.42	1.38
1	A	272	UFT	C2-N3	2.59	1.42	1.38
1	A	74	UFT	O4'-C1'	2.59	1.48	1.42
1	A	130	UFT	O4'-C1'	2.58	1.48	1.42
1	A	488	UFT	C2-N3	2.58	1.42	1.38
1	A	272	UFT	C2'-C1'	-2.58	1.49	1.53
1	A	105	UFT	C2'-C1'	-2.58	1.49	1.53
1	A	389	UFT	C2-N3	2.58	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	60	UFT	O4'-C1'	2.58	1.48	1.42
1	A	119	UFT	O4'-C1'	2.58	1.48	1.42
1	A	184	UFT	O4'-C1'	2.58	1.48	1.42
1	A	14	UFT	O4'-C1'	2.58	1.48	1.42
1	A	365	UFT	O4'-C1'	2.58	1.48	1.42
1	A	488	UFT	C2'-C1'	-2.58	1.49	1.53
1	A	488	UFT	O4'-C1'	2.58	1.48	1.42
1	A	237	UFT	O4'-C1'	2.57	1.48	1.42
1	A	26	UFT	C2-N3	2.57	1.42	1.38
1	A	47	UFT	C2-N3	2.57	1.42	1.38
1	A	388	UFT	C2-N3	2.57	1.42	1.38
1	A	276	UFT	O4'-C1'	2.57	1.48	1.42
1	A	357	UFT	O4'-C1'	2.57	1.48	1.42
1	A	212	UFT	C2'-C1'	-2.57	1.49	1.53
1	A	167	UFT	O4'-C1'	2.57	1.48	1.42
1	A	543	UFT	C2-N3	2.57	1.42	1.38
1	A	331	UFT	O4'-C1'	2.57	1.48	1.42
1	A	348	UFT	C2-N3	2.57	1.42	1.38
1	A	492	UFT	C2'-C1'	-2.57	1.49	1.53
1	A	509	UFT	C2-N3	2.57	1.42	1.38
1	A	35	UFT	O4'-C1'	2.57	1.48	1.42
1	A	282	UFT	O4'-C1'	2.57	1.48	1.42
1	A	194	UFT	O4'-C1'	2.57	1.48	1.42
1	A	221	UFT	C2-N3	2.57	1.42	1.38
1	A	175	UFT	O4'-C1'	2.56	1.48	1.42
1	A	285	UFT	O4'-C1'	2.56	1.48	1.42
1	A	423	UFT	O4'-C1'	2.56	1.48	1.42
1	A	243	UFT	C2-N3	2.56	1.42	1.38
1	A	526	UFT	C2-N3	2.56	1.42	1.38
1	A	470	UFT	C2'-C1'	-2.56	1.49	1.53
1	A	509	UFT	O4'-C1'	2.56	1.48	1.42
1	A	549	UFT	C2-N3	2.56	1.42	1.38
1	A	14	UFT	C2'-C1'	-2.56	1.49	1.53
1	A	421	UFT	O4'-C1'	2.56	1.48	1.42
1	A	188	UFT	C2-N3	2.55	1.42	1.38
1	A	133	UFT	C2-N3	2.55	1.42	1.38
1	A	421	UFT	C2-N3	2.55	1.42	1.38
1	A	44	UFT	C2-N3	2.55	1.42	1.38
1	A	272	UFT	O4'-C1'	2.55	1.48	1.42
1	A	35	UFT	C2-N3	2.55	1.42	1.38
1	A	411	UFT	O4'-C1'	2.55	1.48	1.42
1	A	412	UFT	O4'-C1'	2.55	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	8	UFT	O4'-C1'	2.55	1.48	1.42
1	A	215	UFT	O4'-C1'	2.55	1.48	1.42
1	A	166	UFT	C2-N3	2.55	1.42	1.38
1	A	234	UFT	C2-N3	2.55	1.42	1.38
1	A	545	UFT	C2-N3	2.55	1.42	1.38
1	A	523	UFT	O4'-C1'	2.55	1.48	1.42
1	A	492	UFT	C2-N3	2.55	1.42	1.38
1	A	221	UFT	C2'-C1'	-2.55	1.49	1.53
1	A	47	UFT	O4'-C1'	2.55	1.48	1.42
1	A	491	UFT	O4'-C1'	2.55	1.48	1.42
1	A	511	UFT	C2-N3	2.55	1.42	1.38
1	A	237	UFT	C2-N3	2.55	1.42	1.38
1	A	498	UFT	C2'-C1'	-2.55	1.49	1.53
1	A	234	UFT	O4'-C1'	2.55	1.48	1.42
1	A	348	UFT	O4'-C1'	2.55	1.48	1.42
1	A	549	UFT	O4'-C1'	2.54	1.48	1.42
1	A	432	UFT	O4'-C1'	2.54	1.48	1.42
1	A	133	UFT	O4'-C1'	2.54	1.48	1.42
1	A	406	UFT	C2-N3	2.54	1.42	1.38
1	A	385	UFT	O4'-C1'	2.54	1.48	1.42
1	A	18	UFT	C2-N3	2.54	1.42	1.38
1	A	151	UFT	O4'-C1'	2.54	1.48	1.42
1	A	470	UFT	O4'-C1'	2.54	1.48	1.42
1	A	28	UFT	O4'-C1'	2.54	1.48	1.42
1	A	55	UFT	O4'-C1'	2.54	1.48	1.42
1	A	450	UFT	C2-N3	2.54	1.42	1.38
1	A	477	UFT	C2-N3	2.54	1.42	1.38
1	A	28	UFT	C2-N3	2.54	1.42	1.38
1	A	147	UFT	C2-N3	2.54	1.42	1.38
1	A	302	CFZ	C2'-C1'	-2.54	1.49	1.53
1	A	541	UFT	C2'-C1'	-2.54	1.49	1.53
1	A	85	UFT	O4'-C1'	2.54	1.48	1.42
1	A	43	UFT	O4'-C1'	2.54	1.48	1.42
1	A	14	UFT	C2-N3	2.53	1.42	1.38
1	A	350	UFT	C2'-C1'	-2.53	1.49	1.53
1	A	492	UFT	O4'-C1'	2.53	1.48	1.42
1	A	324	UFT	O4'-C1'	2.53	1.48	1.42
1	A	398	UFT	C2-N3	2.53	1.42	1.38
1	A	171	UFT	O4'-C1'	2.53	1.48	1.42
1	A	34	UFT	O4'-C1'	2.53	1.48	1.42
1	A	184	UFT	C2-N3	2.53	1.42	1.38
1	A	412	UFT	C2-N3	2.53	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	470	UFT	C2-N3	2.53	1.42	1.38
1	A	421	UFT	C2'-C1'	-2.53	1.49	1.53
1	A	339	UFT	C2'-C1'	-2.53	1.49	1.53
1	A	140	UFT	O4'-C1'	2.53	1.48	1.42
1	A	66	UFT	C2-N3	2.53	1.42	1.38
1	A	258	UFT	C2'-C1'	-2.53	1.49	1.53
1	A	254	UFT	O4'-C1'	2.52	1.48	1.42
1	A	319	UFT	C2-N3	2.52	1.42	1.38
1	A	459	UFT	C2-N3	2.52	1.42	1.38
1	A	134	UFT	C2'-C1'	-2.52	1.49	1.53
1	A	320	UFT	O4'-C1'	2.52	1.48	1.42
1	A	188	UFT	O4'-C1'	2.52	1.48	1.42
1	A	228	UFT	O4'-C1'	2.52	1.48	1.42
1	A	165	UFT	C2'-C1'	-2.52	1.49	1.53
1	A	510	UFT	C2-N3	2.52	1.42	1.38
1	A	461	UFT	C2-N3	2.52	1.42	1.38
1	A	438	UFT	O4'-C1'	2.52	1.48	1.42
1	A	87	UFT	C2-N3	2.52	1.42	1.38
1	A	215	UFT	C2'-C1'	-2.52	1.49	1.53
1	A	153	UFT	O4'-C1'	2.52	1.48	1.42
1	A	184	UFT	C2'-C1'	-2.52	1.49	1.53
1	A	318	UFT	O4'-C1'	2.52	1.48	1.42
1	A	39	UFT	C2-N3	2.52	1.42	1.38
1	A	8	UFT	C2-N3	2.51	1.42	1.38
1	A	439	UFT	C2-N3	2.51	1.42	1.38
1	A	523	UFT	C2-N3	2.51	1.42	1.38
1	A	114	UFT	C2-N3	2.51	1.42	1.38
1	A	265	UFT	O4'-C1'	2.51	1.47	1.42
1	A	438	UFT	C2-N3	2.51	1.42	1.38
1	A	357	UFT	C2'-C1'	-2.51	1.49	1.53
1	A	96	UFT	O4'-C1'	2.51	1.47	1.42
1	A	96	UFT	C2-N3	2.51	1.42	1.38
1	A	479	UFT	C2-N3	2.51	1.42	1.38
1	A	147	UFT	O4'-C1'	2.51	1.47	1.42
1	A	97	UFT	C2-N3	2.51	1.42	1.38
1	A	348	UFT	C2'-C1'	-2.51	1.49	1.53
1	A	151	UFT	C2-N3	2.51	1.42	1.38
1	A	87	UFT	C2'-C1'	-2.51	1.49	1.53
1	A	115	UFT	C2-N3	2.51	1.42	1.38
1	A	465	UFT	O4'-C1'	2.51	1.47	1.42
1	A	243	UFT	O4'-C1'	2.51	1.47	1.42
1	A	451	UFT	O4'-C1'	2.50	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	282	UFT	C2-N3	2.50	1.42	1.38
1	A	538	UFT	O4'-C1'	2.50	1.47	1.42
1	A	151	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	83	UFT	C2-N3	2.50	1.42	1.38
1	A	130	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	83	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	529	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	48	UFT	C2-N3	2.50	1.42	1.38
1	A	439	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	523	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	140	UFT	C2-N3	2.50	1.42	1.38
1	A	18	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	265	UFT	C2'-C1'	-2.50	1.49	1.53
1	A	451	UFT	C2'-C1'	-2.49	1.49	1.53
1	A	480	UFT	C2-N3	2.49	1.42	1.38
1	A	63	UFT	O4'-C1'	2.49	1.47	1.42
1	A	133	UFT	C2'-C1'	-2.49	1.49	1.53
1	A	97	UFT	O4'-C1'	2.49	1.47	1.42
1	A	504	UFT	O4'-C1'	2.49	1.47	1.42
1	A	389	UFT	C2'-C1'	-2.49	1.49	1.53
1	A	529	UFT	C2-N3	2.49	1.42	1.38
1	A	39	UFT	O4'-C1'	2.49	1.47	1.42
1	A	63	UFT	C2'-C1'	-2.49	1.49	1.53
1	A	247	UFT	C2-N3	2.49	1.42	1.38
1	A	206	UFT	C2-N3	2.48	1.42	1.38
1	A	27	UFT	C2-N3	2.48	1.42	1.38
1	A	411	UFT	C2'-C1'	-2.48	1.49	1.53
1	A	465	UFT	C2-N3	2.48	1.42	1.38
1	A	65	UFT	O4'-C1'	2.48	1.47	1.42
1	A	85	UFT	C2-N3	2.48	1.42	1.38
1	A	265	UFT	C2-N3	2.48	1.42	1.38
1	A	285	UFT	C2-N3	2.48	1.42	1.38
1	A	460	UFT	C2-N3	2.48	1.42	1.38
1	A	34	UFT	C2-N3	2.48	1.42	1.38
1	A	528	UFT	O4'-C1'	2.48	1.47	1.42
1	A	115	UFT	C2'-C1'	-2.48	1.49	1.53
1	A	450	UFT	O4'-C1'	2.48	1.47	1.42
1	A	545	UFT	O4'-C1'	2.48	1.47	1.42
1	A	459	UFT	C2'-C1'	-2.48	1.49	1.53
1	A	432	UFT	C2-N3	2.48	1.42	1.38
1	A	340	UFT	O4'-C1'	2.48	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	499	UFT	C2-N3	2.48	1.42	1.38
1	A	130	UFT	C2-N3	2.48	1.42	1.38
1	A	65	UFT	C2-N3	2.47	1.42	1.38
1	A	65	UFT	C2'-C1'	-2.47	1.49	1.53
1	A	479	UFT	C2'-C1'	-2.47	1.49	1.53
1	A	88	UFT	C2-N3	2.47	1.42	1.38
1	A	528	UFT	C2-N3	2.47	1.42	1.38
1	A	105	UFT	C2-N3	2.47	1.42	1.38
1	A	92	UFT	C2-N3	2.46	1.42	1.38
1	A	167	UFT	C2-N3	2.46	1.42	1.38
1	A	88	UFT	O4'-C1'	2.46	1.47	1.42
1	A	43	UFT	C2'-C1'	-2.46	1.49	1.53
1	A	228	UFT	C2'-C1'	-2.46	1.49	1.53
1	A	74	UFT	C2'-C1'	-2.46	1.49	1.53
1	A	479	UFT	O4'-C1'	2.46	1.47	1.42
1	A	119	UFT	C2'-C1'	-2.46	1.49	1.53
1	A	357	UFT	C2-N3	2.46	1.42	1.38
1	A	339	UFT	O4'-C1'	2.46	1.47	1.42
1	A	320	UFT	C2'-C1'	-2.46	1.49	1.53
1	A	119	UFT	C2-N3	2.46	1.42	1.38
1	A	63	UFT	C2-N3	2.45	1.42	1.38
1	A	450	UFT	C2'-C1'	-2.45	1.49	1.53
1	A	87	UFT	O4'-C1'	2.45	1.47	1.42
1	A	66	UFT	C2'-C1'	-2.45	1.49	1.53
1	A	423	UFT	C2-N3	2.45	1.42	1.38
1	A	166	UFT	C2'-C1'	-2.45	1.49	1.53
1	A	170	UFT	O4'-C1'	2.45	1.47	1.42
1	A	535	UFT	C2-N3	2.45	1.42	1.38
1	A	400	UFT	C2'-C1'	-2.45	1.49	1.53
1	A	114	UFT	O4'-C1'	2.45	1.47	1.42
1	A	13	UFT	C2'-C1'	-2.45	1.49	1.53
1	A	188	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	365	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	35	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	237	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	385	UFT	C2-N3	2.44	1.42	1.38
1	A	140	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	549	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	460	UFT	O4'-C1'	2.44	1.47	1.42
1	A	339	UFT	C2-N3	2.44	1.42	1.38
1	A	286	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	400	UFT	C2-N3	2.44	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	28	UFT	C2'-C1'	-2.44	1.49	1.53
1	A	95	UFT	O4'-C1'	2.44	1.47	1.42
1	A	26	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	55	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	526	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	498	UFT	O4'-C1'	2.43	1.47	1.42
1	A	510	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	504	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	147	UFT	C2'-C1'	-2.43	1.49	1.53
1	A	511	UFT	C2'-C1'	-2.42	1.49	1.53
1	A	175	UFT	C2-N3	2.42	1.42	1.38
1	A	8	UFT	C2'-C1'	-2.42	1.49	1.53
1	A	276	UFT	O2-C2	-2.42	1.18	1.23
1	A	538	UFT	C2'-C1'	-2.42	1.49	1.53
1	A	71	UFT	C2-N3	2.42	1.42	1.38
1	A	358	UFT	C2-N3	2.42	1.42	1.38
1	A	398	UFT	O4'-C1'	2.42	1.47	1.42
1	A	95	UFT	C2'-C1'	-2.42	1.49	1.53
1	A	44	UFT	C2'-C1'	-2.41	1.49	1.53
1	A	66	UFT	O4'-C1'	2.41	1.47	1.42
1	A	320	UFT	C2-N3	2.41	1.42	1.38
1	A	7	UFT	C2'-C1'	-2.41	1.49	1.53
1	A	147	UFT	O2-C2	-2.41	1.18	1.23
1	A	391	UFT	C2'-C1'	-2.41	1.49	1.53
1	A	43	UFT	C2-N3	2.41	1.42	1.38
1	A	39	UFT	C2'-C1'	-2.41	1.50	1.53
1	A	510	UFT	O4'-C1'	2.40	1.47	1.42
1	A	391	UFT	O4'-C1'	2.40	1.47	1.42
1	A	358	UFT	C2'-C1'	-2.40	1.50	1.53
1	A	511	UFT	O4'-C1'	2.40	1.47	1.42
1	A	529	UFT	O4'-C1'	2.40	1.47	1.42
1	A	74	UFT	C2-N3	2.40	1.42	1.38
1	A	319	UFT	O4'-C1'	2.39	1.47	1.42
1	A	175	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	105	UFT	O4'-C1'	2.39	1.47	1.42
1	A	406	UFT	O4'-C1'	2.39	1.47	1.42
1	A	258	UFT	C2-N3	2.39	1.42	1.38
1	A	27	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	171	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	461	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	480	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	535	UFT	C2'-C1'	-2.39	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	319	UFT	C2'-C1'	-2.39	1.50	1.53
1	A	7	UFT	C2-N3	2.39	1.42	1.38
1	A	27	UFT	O4'-C1'	2.39	1.47	1.42
1	A	191	UFT	O4'-C1'	2.39	1.47	1.42
1	A	480	UFT	O4'-C1'	2.38	1.47	1.42
1	A	45	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	254	UFT	C2-N3	2.38	1.42	1.38
1	A	92	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	461	UFT	O4'-C1'	2.38	1.47	1.42
1	A	60	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	167	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	439	UFT	O4'-C1'	2.38	1.47	1.42
1	A	285	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	432	UFT	C2'-C1'	-2.38	1.50	1.53
1	A	365	UFT	C2-N3	2.38	1.42	1.38
1	A	60	UFT	C2-N3	2.38	1.42	1.38
1	A	477	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	234	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	228	UFT	C2-N3	2.37	1.42	1.38
1	A	48	UFT	O4'-C1'	2.37	1.47	1.42
1	A	191	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	8	UFT	O2-C2	-2.37	1.18	1.23
1	A	254	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	71	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	358	UFT	O2-C2	-2.37	1.18	1.23
1	A	85	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	15	UFT	C2'-C1'	-2.37	1.50	1.53
1	A	538	UFT	C2-N3	2.36	1.42	1.38
1	A	509	UFT	C2'-C1'	-2.36	1.50	1.53
1	A	385	UFT	C2'-C1'	-2.36	1.50	1.53
1	A	331	UFT	C2-N3	2.36	1.42	1.38
1	A	80	UFT	C2-N3	2.36	1.42	1.38
1	A	115	UFT	O4'-C1'	2.36	1.47	1.42
1	A	282	UFT	C2'-C1'	-2.36	1.50	1.53
1	A	153	UFT	C2'-C1'	-2.36	1.50	1.53
1	A	451	UFT	C2-N3	2.35	1.42	1.38
1	A	366	UFT	C2-N3	2.35	1.42	1.38
1	A	324	UFT	C2'-C1'	-2.35	1.50	1.53
1	A	96	UFT	C2'-C1'	-2.34	1.50	1.53
1	A	276	UFT	C2-N3	2.34	1.42	1.38
1	A	350	UFT	C4-N3	2.34	1.42	1.38
1	A	291	UFT	C2-N3	2.34	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	156	UFT	O4'-C1'	2.34	1.47	1.42
1	A	258	UFT	O4'-C1'	2.34	1.47	1.42
1	A	194	UFT	C2'-C1'	-2.34	1.50	1.53
1	A	399	UFT	C2'-C1'	-2.33	1.50	1.53
1	A	465	UFT	C2'-C1'	-2.33	1.50	1.53
1	A	499	UFT	O4'-C1'	2.33	1.47	1.42
1	A	85	UFT	O2-C2	-2.33	1.18	1.23
1	A	247	UFT	C2'-C1'	-2.32	1.50	1.53
1	A	423	UFT	C2'-C1'	-2.32	1.50	1.53
1	A	545	UFT	C2'-C1'	-2.31	1.50	1.53
1	A	97	UFT	C2'-C1'	-2.31	1.50	1.53
1	A	460	UFT	C2'-C1'	-2.31	1.50	1.53
1	A	114	UFT	O2-C2	-2.31	1.18	1.23
1	A	80	UFT	C2'-C1'	-2.30	1.50	1.53
1	A	15	UFT	O2-C2	-2.30	1.18	1.23
1	A	286	UFT	O2-C2	-2.29	1.18	1.23
1	A	535	UFT	O2-C2	-2.28	1.18	1.23
1	A	26	UFT	C4-N3	2.28	1.42	1.38
1	A	151	UFT	O2-C2	-2.28	1.18	1.23
1	A	318	UFT	O2-C2	-2.28	1.18	1.23
1	A	479	UFT	O2-C2	-2.28	1.18	1.23
1	A	543	UFT	C2'-C1'	-2.27	1.50	1.53
1	A	389	UFT	O2-C2	-2.27	1.18	1.23
1	A	114	UFT	C2'-C1'	-2.26	1.50	1.53
1	A	95	UFT	O2-C2	-2.26	1.18	1.23
1	A	541	UFT	O2-C2	-2.26	1.18	1.23
1	A	156	UFT	O2-C2	-2.26	1.18	1.23
1	A	133	UFT	O2-C2	-2.26	1.18	1.23
1	A	492	UFT	O2-C2	-2.26	1.18	1.23
1	A	48	UFT	O2-C2	-2.26	1.18	1.23
1	A	265	UFT	O2-C2	-2.26	1.18	1.23
1	A	47	UFT	O2-C2	-2.25	1.18	1.23
1	A	153	UFT	O2-C2	-2.25	1.18	1.23
1	A	439	UFT	O2-C2	-2.25	1.18	1.23
1	A	254	UFT	O2-C2	-2.25	1.18	1.23
1	A	480	UFT	O2-C2	-2.25	1.18	1.23
1	A	291	UFT	C2'-C1'	-2.25	1.50	1.53
1	A	165	UFT	O2-C2	-2.25	1.18	1.23
1	A	14	UFT	O2-C2	-2.24	1.18	1.23
1	A	221	UFT	O2-C2	-2.24	1.18	1.23
1	A	272	UFT	O2-C2	-2.24	1.18	1.23
1	A	276	UFT	C2'-C1'	-2.24	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	528	UFT	O2-C2	-2.24	1.18	1.23
1	A	258	UFT	O2-C2	-2.24	1.18	1.23
1	A	29	CFZ	C6-C5	2.24	1.40	1.35
1	A	365	UFT	O2-C2	-2.24	1.19	1.23
1	A	115	UFT	O2-C2	-2.24	1.19	1.23
1	A	340	UFT	O2-C2	-2.24	1.19	1.23
1	A	246	CFZ	C6-C5	2.24	1.40	1.35
1	A	526	UFT	O2-C2	-2.24	1.19	1.23
1	A	6	CFZ	C6-C5	2.24	1.40	1.35
1	A	67	CFZ	C6-C5	2.24	1.40	1.35
1	A	34	UFT	O2-C2	-2.24	1.19	1.23
1	A	96	UFT	O2-C2	-2.24	1.19	1.23
1	A	470	UFT	O2-C2	-2.24	1.19	1.23
1	A	491	UFT	O2-C2	-2.24	1.19	1.23
1	A	527	CFZ	C6-C5	2.24	1.40	1.35
1	A	406	UFT	O2-C2	-2.24	1.19	1.23
1	A	55	UFT	O2-C2	-2.24	1.19	1.23
1	A	504	UFT	O2-C2	-2.23	1.19	1.23
1	A	324	UFT	O2-C2	-2.23	1.19	1.23
1	A	171	UFT	O2-C2	-2.23	1.19	1.23
1	A	498	UFT	O2-C2	-2.23	1.19	1.23
1	A	35	UFT	O2-C2	-2.23	1.19	1.23
1	A	175	UFT	O2-C2	-2.23	1.19	1.23
1	A	509	UFT	O2-C2	-2.23	1.19	1.23
1	A	540	UFT	O2-C2	-2.23	1.19	1.23
1	A	66	UFT	O2-C2	-2.23	1.19	1.23
1	A	331	UFT	O2-C2	-2.23	1.19	1.23
1	A	188	UFT	O2-C2	-2.23	1.19	1.23
1	A	13	UFT	O2-C2	-2.23	1.19	1.23
1	A	130	UFT	O2-C2	-2.23	1.19	1.23
1	A	538	UFT	O2-C2	-2.23	1.19	1.23
1	A	437	CFZ	C6-C5	2.23	1.40	1.35
1	A	191	UFT	O2-C2	-2.23	1.19	1.23
1	A	97	UFT	O2-C2	-2.23	1.19	1.23
1	A	18	UFT	O2-C2	-2.23	1.19	1.23
1	A	461	UFT	O2-C2	-2.23	1.19	1.23
1	A	170	UFT	O2-C2	-2.23	1.19	1.23
1	A	339	UFT	O2-C2	-2.23	1.19	1.23
1	A	282	UFT	O2-C2	-2.23	1.19	1.23
1	A	412	UFT	O2-C2	-2.23	1.19	1.23
1	A	488	UFT	O2-C2	-2.23	1.19	1.23
1	A	243	UFT	O2-C2	-2.23	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	549	UFT	O2-C2	-2.23	1.19	1.23
1	A	88	UFT	O2-C2	-2.22	1.19	1.23
1	A	109	CFZ	C6-C5	2.22	1.40	1.35
1	A	39	UFT	O2-C2	-2.22	1.19	1.23
1	A	331	UFT	C2'-C1'	-2.22	1.50	1.53
1	A	543	UFT	O2-C2	-2.22	1.19	1.23
1	A	285	UFT	O2-C2	-2.22	1.19	1.23
1	A	140	UFT	O2-C2	-2.22	1.19	1.23
1	A	134	UFT	O2-C2	-2.22	1.19	1.23
1	A	215	UFT	O2-C2	-2.22	1.19	1.23
1	A	105	UFT	O2-C2	-2.22	1.19	1.23
1	A	167	UFT	O2-C2	-2.22	1.19	1.23
1	A	421	UFT	O2-C2	-2.22	1.19	1.23
1	A	78	CFZ	C6-C5	2.22	1.40	1.35
1	A	63	UFT	O2-C2	-2.22	1.19	1.23
1	A	83	UFT	O2-C2	-2.22	1.19	1.23
1	A	438	UFT	O2-C2	-2.22	1.19	1.23
1	A	27	UFT	O2-C2	-2.22	1.19	1.23
1	A	460	UFT	O2-C2	-2.21	1.19	1.23
1	A	366	UFT	C2'-C1'	-2.21	1.50	1.53
1	A	481	CFZ	C6-C5	2.21	1.40	1.35
1	A	350	UFT	O2-C2	-2.21	1.19	1.23
1	A	450	UFT	O2-C2	-2.21	1.19	1.23
1	A	234	UFT	O2-C2	-2.21	1.19	1.23
1	A	47	UFT	C2'-C1'	-2.21	1.50	1.53
1	A	388	UFT	O2-C2	-2.21	1.19	1.23
1	A	499	UFT	O2-C2	-2.21	1.19	1.23
1	A	51	CFZ	C6-C5	2.21	1.40	1.35
1	A	451	UFT	O2-C2	-2.21	1.19	1.23
1	A	194	UFT	O2-C2	-2.21	1.19	1.23
1	A	402	CFZ	C6-C5	2.21	1.40	1.35
1	A	462	CFZ	C6-C5	2.21	1.40	1.35
1	A	366	UFT	O2-C2	-2.21	1.19	1.23
1	A	65	UFT	O2-C2	-2.21	1.19	1.23
1	A	87	UFT	O2-C2	-2.21	1.19	1.23
1	A	529	UFT	O2-C2	-2.21	1.19	1.23
1	A	436	CFZ	C6-C5	2.21	1.40	1.35
1	A	237	UFT	O2-C2	-2.21	1.19	1.23
1	A	510	UFT	O2-C2	-2.21	1.19	1.23
1	A	174	CFZ	C6-C5	2.21	1.40	1.35
1	A	49	CFZ	C6-C5	2.20	1.40	1.35
1	A	432	UFT	O2-C2	-2.20	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	526	UFT	C4-N3	2.20	1.42	1.38
1	A	468	CFZ	C6-C5	2.20	1.40	1.35
1	A	247	UFT	O2-C2	-2.20	1.19	1.23
1	A	411	UFT	O2-C2	-2.20	1.19	1.23
1	A	333	CFZ	C6-C5	2.20	1.40	1.35
1	A	160	CFZ	C6-C5	2.20	1.40	1.35
1	A	525	CFZ	C6-C5	2.20	1.40	1.35
1	A	166	UFT	O2-C2	-2.20	1.19	1.23
1	A	43	UFT	O2-C2	-2.20	1.19	1.23
1	A	287	CFZ	C6-C5	2.20	1.40	1.35
1	A	391	UFT	O2-C2	-2.20	1.19	1.23
1	A	400	UFT	O2-C2	-2.20	1.19	1.23
1	A	28	UFT	O2-C2	-2.20	1.19	1.23
1	A	228	UFT	O2-C2	-2.20	1.19	1.23
1	A	45	UFT	O2-C2	-2.20	1.19	1.23
1	A	512	CFZ	C6-C5	2.19	1.40	1.35
1	A	98	CFZ	C6-C5	2.19	1.40	1.35
1	A	374	CFZ	C6-C5	2.19	1.40	1.35
1	A	84	CFZ	C6-C5	2.19	1.40	1.35
1	A	435	CFZ	C6-C5	2.19	1.40	1.35
1	A	440	CFZ	C6-C5	2.19	1.40	1.35
1	A	477	UFT	O2-C2	-2.19	1.19	1.23
1	A	178	UFT	O2-C2	-2.19	1.19	1.23
1	A	85	UFT	C4-N3	2.19	1.42	1.38
1	A	212	UFT	O2-C2	-2.19	1.19	1.23
1	A	387	CFZ	C6-C5	2.19	1.40	1.35
1	A	511	UFT	O2-C2	-2.19	1.19	1.23
1	A	7	UFT	O2-C2	-2.19	1.19	1.23
1	A	60	UFT	O2-C2	-2.19	1.19	1.23
1	A	119	UFT	O2-C2	-2.19	1.19	1.23
1	A	320	UFT	O2-C2	-2.19	1.19	1.23
1	A	357	UFT	O2-C2	-2.19	1.19	1.23
1	A	465	UFT	O2-C2	-2.19	1.19	1.23
1	A	523	UFT	O2-C2	-2.19	1.19	1.23
1	A	80	UFT	O2-C2	-2.19	1.19	1.23
1	A	348	UFT	O2-C2	-2.19	1.19	1.23
1	A	44	UFT	O2-C2	-2.18	1.19	1.23
1	A	154	CFZ	C6-C5	2.18	1.40	1.35
1	A	206	UFT	C2'-C1'	-2.18	1.50	1.53
1	A	213	CFZ	C6-C5	2.18	1.40	1.35
1	A	500	CFZ	C6-C5	2.18	1.40	1.35
1	A	530	CFZ	C6-C5	2.18	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	116	CFZ	C6-C5	2.18	1.40	1.35
1	A	110	CFZ	C6-C5	2.18	1.40	1.35
1	A	71	UFT	O2-C2	-2.18	1.19	1.23
1	A	206	UFT	O2-C2	-2.18	1.19	1.23
1	A	344	CFZ	C6-C5	2.18	1.40	1.35
1	A	399	UFT	O2-C2	-2.18	1.19	1.23
1	A	209	CFZ	C6-C5	2.18	1.40	1.35
1	A	385	UFT	O2-C2	-2.18	1.19	1.23
1	A	92	UFT	O2-C2	-2.18	1.19	1.23
1	A	225	CFZ	C6-C5	2.18	1.40	1.35
1	A	255	CFZ	C6-C5	2.17	1.40	1.35
1	A	507	CFZ	C6-C5	2.17	1.40	1.35
1	A	502	CFZ	C6-C5	2.17	1.40	1.35
1	A	325	CFZ	C6-C5	2.17	1.40	1.35
1	A	452	CFZ	C6-C5	2.17	1.40	1.35
1	A	10	CFZ	C6-C5	2.17	1.40	1.35
1	A	178	UFT	C4-N3	2.17	1.42	1.38
1	A	223	CFZ	C6-C5	2.17	1.40	1.35
1	A	423	UFT	O2-C2	-2.17	1.19	1.23
1	A	11	CFZ	C6-C5	2.17	1.40	1.35
1	A	508	CFZ	C6-C5	2.17	1.40	1.35
1	A	448	CFZ	C6-C5	2.17	1.40	1.35
1	A	74	UFT	O2-C2	-2.17	1.19	1.23
1	A	26	UFT	O2-C2	-2.16	1.19	1.23
1	A	522	CFZ	C6-C5	2.16	1.40	1.35
1	A	183	CFZ	C6-C5	2.16	1.40	1.35
1	A	495	CFZ	C6-C5	2.16	1.40	1.35
1	A	184	UFT	O2-C2	-2.16	1.19	1.23
1	A	428	CFZ	C6-C5	2.16	1.40	1.35
1	A	433	CFZ	C6-C5	2.16	1.40	1.35
1	A	165	UFT	C4-N3	2.16	1.42	1.38
1	A	307	CFZ	C6-C5	2.16	1.40	1.35
1	A	108	CFZ	C6-C5	2.16	1.40	1.35
1	A	283	CFZ	C6-C5	2.16	1.40	1.35
1	A	40	CFZ	C6-C5	2.16	1.40	1.35
1	A	459	UFT	O2-C2	-2.16	1.19	1.23
1	A	429	CFZ	C6-C5	2.16	1.40	1.35
1	A	475	CFZ	C6-C5	2.15	1.40	1.35
1	A	476	CFZ	C6-C5	2.15	1.40	1.35
1	A	250	CFZ	C6-C5	2.15	1.40	1.35
1	A	398	UFT	O2-C2	-2.15	1.19	1.23
1	A	280	CFZ	C6-C5	2.15	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	111	CFZ	C6-C5	2.14	1.40	1.35
1	A	113	CFZ	C6-C5	2.14	1.40	1.35
1	A	179	CFZ	C6-C5	2.14	1.40	1.35
1	A	12	CFZ	C6-C5	2.14	1.40	1.35
1	A	41	CFZ	C6-C5	2.14	1.40	1.35
1	A	93	CFZ	C6-C5	2.14	1.40	1.35
1	A	289	CFZ	C6-C5	2.14	1.40	1.35
1	A	163	CFZ	C6-C5	2.14	1.40	1.35
1	A	252	CFZ	C6-C5	2.14	1.40	1.35
1	A	324	UFT	C4-N3	2.14	1.42	1.38
1	A	291	UFT	O2-C2	-2.14	1.19	1.23
1	A	302	CFZ	C6-C5	2.14	1.40	1.35
1	A	342	CFZ	C6-C5	2.13	1.40	1.35
1	A	259	CFZ	C6-C5	2.13	1.40	1.35
1	A	341	CFZ	C6-C5	2.13	1.40	1.35
1	A	472	CFZ	C6-C5	2.13	1.40	1.35
1	A	380	CFZ	C6-C5	2.13	1.40	1.35
1	A	212	UFT	C4-N3	2.13	1.42	1.38
1	A	496	CFZ	C6-C5	2.13	1.40	1.35
1	A	540	UFT	C4-N3	2.12	1.42	1.38
1	A	44	UFT	C4-N3	2.12	1.42	1.38
1	A	210	CFZ	C6-C5	2.12	1.39	1.35
1	A	354	CFZ	C6-C5	2.12	1.39	1.35
1	A	170	UFT	C4-N3	2.12	1.42	1.38
1	A	144	CFZ	C6-C5	2.12	1.39	1.35
1	A	501	CFZ	C6-C5	2.12	1.39	1.35
1	A	146	CFZ	C6-C5	2.12	1.39	1.35
1	A	413	CFZ	C6-C5	2.11	1.39	1.35
1	A	397	CFZ	C6-C5	2.11	1.39	1.35
1	A	498	UFT	C4-N3	2.11	1.42	1.38
1	A	20	CFZ	C6-C5	2.11	1.39	1.35
1	A	64	CFZ	C6-C5	2.11	1.39	1.35
1	A	124	CFZ	C6-C5	2.11	1.39	1.35
1	A	467	CFZ	C6-C5	2.11	1.39	1.35
1	A	36	CFZ	C6-C5	2.11	1.39	1.35
1	A	419	CFZ	C6-C5	2.11	1.39	1.35
1	A	191	UFT	C4-N3	2.11	1.42	1.38
1	A	518	CFZ	C6-C5	2.10	1.39	1.35
1	A	4	CFZ	C6-C5	2.10	1.39	1.35
1	A	216	CFZ	C6-C5	2.10	1.39	1.35
1	A	364	CFZ	C6-C5	2.10	1.39	1.35
1	A	368	CFZ	C6-C5	2.10	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	404	CFZ	C6-C5	2.10	1.39	1.35
1	A	337	CFZ	C6-C5	2.10	1.39	1.35
1	A	349	CFZ	C6-C5	2.10	1.39	1.35
1	A	303	CFZ	C6-C5	2.10	1.39	1.35
1	A	313	CFZ	C6-C5	2.10	1.39	1.35
1	A	407	CFZ	C6-C5	2.10	1.39	1.35
1	A	215	UFT	C4-N3	2.10	1.42	1.38
1	A	301	CFZ	C6-C5	2.10	1.39	1.35
1	A	76	CFZ	C6-C5	2.10	1.39	1.35
1	A	279	CFZ	C6-C5	2.10	1.39	1.35
1	A	454	CFZ	C6-C5	2.10	1.39	1.35
1	A	310	CFZ	C6-C5	2.10	1.39	1.35
1	A	319	UFT	O2-C2	-2.09	1.19	1.23
1	A	503	CFZ	C6-C5	2.09	1.39	1.35
1	A	286	UFT	C4-N3	2.09	1.42	1.38
1	A	132	CFZ	C6-C5	2.09	1.39	1.35
1	A	104	CFZ	C6-C5	2.09	1.39	1.35
1	A	72	CFZ	C6-C5	2.09	1.39	1.35
1	A	415	CFZ	C6-C5	2.09	1.39	1.35
1	A	483	CFZ	C6-C5	2.09	1.39	1.35
1	A	251	CFZ	C6-C5	2.09	1.39	1.35
1	A	490	CFZ	C6-C5	2.08	1.39	1.35
1	A	264	CFZ	C6-C5	2.08	1.39	1.35
1	A	134	UFT	C4-N3	2.08	1.42	1.38
1	A	318	UFT	C4-N3	2.08	1.42	1.38
1	A	487	CFZ	C6-C5	2.08	1.39	1.35
1	A	262	CFZ	C6-C5	2.08	1.39	1.35
1	A	298	CFZ	C6-C5	2.08	1.39	1.35
1	A	506	CFZ	C6-C5	2.08	1.39	1.35
1	A	488	UFT	C4-N3	2.08	1.42	1.38
1	A	450	UFT	C4-N3	2.08	1.42	1.38
1	A	457	CFZ	C6-C5	2.08	1.39	1.35
1	A	229	CFZ	C6-C5	2.08	1.39	1.35
1	A	391	UFT	C4-N3	2.08	1.42	1.38
1	A	272	UFT	C4-N3	2.08	1.42	1.38
1	A	156	UFT	C4-N3	2.07	1.42	1.38
1	A	459	UFT	C4-N3	2.07	1.42	1.38
1	A	477	UFT	C4-N3	2.07	1.42	1.38
1	A	257	CFZ	C6-C5	2.06	1.39	1.35
1	A	541	UFT	C4-N3	2.06	1.42	1.38
1	A	177	CFZ	C6-C5	2.06	1.39	1.35
1	A	127	CFZ	C6-C5	2.06	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	220	CFZ	C6-C5	2.06	1.39	1.35
1	A	125	CFZ	C6-C5	2.06	1.39	1.35
1	A	346	CFZ	C6-C5	2.06	1.39	1.35
1	A	45	UFT	C4-N3	2.05	1.42	1.38
1	A	348	UFT	C4-N3	2.05	1.42	1.38
1	A	166	UFT	C4-N3	2.05	1.42	1.38
1	A	14	UFT	C4-N3	2.05	1.42	1.38
1	A	66	UFT	C4-N3	2.05	1.42	1.38
1	A	445	CFZ	C6-C5	2.05	1.39	1.35
1	A	151	UFT	C4-N3	2.04	1.42	1.38
1	A	278	CFZ	C6-C5	2.04	1.39	1.35
1	A	470	UFT	C4-N3	2.04	1.42	1.38
1	A	549	UFT	C4-N3	2.04	1.42	1.38
1	A	89	CFZ	C6-C5	2.04	1.39	1.35
1	A	423	UFT	O5'-C5'	-2.04	1.39	1.44
1	A	33	CFZ	C6-C5	2.04	1.39	1.35
1	A	13	UFT	C4-N3	2.04	1.42	1.38
1	A	171	UFT	C4-N3	2.04	1.42	1.38
1	A	55	UFT	C4-N3	2.04	1.42	1.38
1	A	399	UFT	C4-N3	2.03	1.42	1.38
1	A	230	CFZ	C6-C5	2.03	1.39	1.35
1	A	411	UFT	C4-N3	2.03	1.42	1.38
1	A	18	UFT	C4-N3	2.03	1.42	1.38
1	A	386	CFZ	C6-C5	2.03	1.39	1.35
1	A	509	UFT	C4-N3	2.03	1.42	1.38
1	A	162	CFZ	C6-C5	2.03	1.39	1.35
1	A	398	UFT	C4-N3	2.03	1.42	1.38
1	A	153	UFT	C4-N3	2.03	1.42	1.38
1	A	188	UFT	C4-N3	2.03	1.42	1.38
1	A	28	UFT	C4-N3	2.03	1.42	1.38
1	A	499	UFT	C4-N3	2.03	1.42	1.38
1	A	281	CFZ	C6-C5	2.03	1.39	1.35
1	A	211	CFZ	C6-C5	2.03	1.39	1.35
1	A	194	UFT	O5'-C5'	-2.02	1.39	1.44
1	A	101	CFZ	C6-C5	2.02	1.39	1.35
1	A	430	CFZ	C6-C5	2.02	1.39	1.35
1	A	523	UFT	C4-N3	2.02	1.42	1.38
1	A	480	UFT	C4-N3	2.02	1.42	1.38
1	A	492	UFT	C4-N3	2.02	1.42	1.38
1	A	95	UFT	C4-N3	2.01	1.42	1.38
1	A	412	UFT	C4-N3	2.01	1.42	1.38
1	A	297	CFZ	C6-C5	2.01	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	314	CFZ	C6-C5	2.01	1.39	1.35
1	A	529	UFT	C4-N3	2.01	1.42	1.38
1	A	319	UFT	C4-N3	2.01	1.42	1.38
1	A	406	UFT	C4-N3	2.01	1.42	1.38
1	A	421	UFT	C4-N3	2.01	1.42	1.38
1	A	133	UFT	C4-N3	2.01	1.42	1.38
1	A	439	UFT	C4-N3	2.01	1.42	1.38
1	A	461	UFT	C4-N3	2.01	1.42	1.38
1	A	96	UFT	C4-N3	2.00	1.42	1.38
1	A	357	UFT	O5'-C5'	-2.00	1.39	1.44
1	A	15	UFT	C4-N3	2.00	1.42	1.38
1	A	65	UFT	C4-N3	2.00	1.42	1.38
1	A	388	UFT	C4-N3	2.00	1.42	1.38
1	A	460	UFT	C4-N3	2.00	1.42	1.38
1	A	247	UFT	C4-N3	2.00	1.42	1.38
1	A	389	UFT	C4-N3	2.00	1.42	1.38
1	A	184	UFT	C4-N3	2.00	1.42	1.38

All (1213) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	134	UFT	C4-N3-C2	-5.56	119.25	126.58
1	A	215	UFT	C4-N3-C2	-5.52	119.30	126.58
1	A	391	UFT	C4-N3-C2	-5.52	119.31	126.58
1	A	545	UFT	C4-N3-C2	-5.49	119.34	126.58
1	A	350	UFT	C4-N3-C2	-5.48	119.35	126.58
1	A	286	UFT	C4-N3-C2	-5.45	119.39	126.58
1	A	26	UFT	C4-N3-C2	-5.42	119.43	126.58
1	A	358	UFT	C4-N3-C2	-5.41	119.45	126.58
1	A	504	UFT	C4-N3-C2	-5.40	119.45	126.58
1	A	156	UFT	C4-N3-C2	-5.40	119.45	126.58
1	A	540	UFT	C4-N3-C2	-5.40	119.45	126.58
1	A	243	UFT	C4-N3-C2	-5.39	119.47	126.58
1	A	498	UFT	C4-N3-C2	-5.39	119.47	126.58
1	A	212	UFT	C4-N3-C2	-5.38	119.49	126.58
1	A	499	UFT	C4-N3-C2	-5.36	119.51	126.58
1	A	95	UFT	C4-N3-C2	-5.36	119.51	126.58
1	A	171	UFT	C4-N3-C2	-5.35	119.52	126.58
1	A	165	UFT	C4-N3-C2	-5.34	119.53	126.58
1	A	153	UFT	C4-N3-C2	-5.33	119.55	126.58
1	A	541	UFT	C4-N3-C2	-5.33	119.55	126.58
1	A	8	UFT	C4-N3-C2	-5.32	119.56	126.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	318	UFT	C4-N3-C2	-5.32	119.56	126.58
1	A	526	UFT	C4-N3-C2	-5.31	119.57	126.58
1	A	340	UFT	C4-N3-C2	-5.30	119.59	126.58
1	A	492	UFT	C4-N3-C2	-5.30	119.59	126.58
1	A	178	UFT	C4-N3-C2	-5.30	119.59	126.58
1	A	15	UFT	C4-N3-C2	-5.28	119.61	126.58
1	A	166	UFT	C4-N3-C2	-5.28	119.62	126.58
1	A	191	UFT	C4-N3-C2	-5.26	119.64	126.58
1	A	147	UFT	C4-N3-C2	-5.26	119.64	126.58
1	A	194	UFT	C4-N3-C2	-5.26	119.64	126.58
1	A	488	UFT	C4-N3-C2	-5.26	119.65	126.58
1	A	388	UFT	C4-N3-C2	-5.25	119.66	126.58
1	A	324	UFT	C4-N3-C2	-5.23	119.67	126.58
1	A	477	UFT	C4-N3-C2	-5.23	119.68	126.58
1	A	85	UFT	C4-N3-C2	-5.22	119.69	126.58
1	A	411	UFT	C4-N3-C2	-5.22	119.70	126.58
1	A	491	UFT	C4-N3-C2	-5.21	119.70	126.58
1	A	55	UFT	C4-N3-C2	-5.21	119.71	126.58
1	A	389	UFT	C4-N3-C2	-5.20	119.72	126.58
1	A	421	UFT	C4-N3-C2	-5.19	119.73	126.58
1	A	170	UFT	C4-N3-C2	-5.18	119.74	126.58
1	A	18	UFT	C4-N3-C2	-5.18	119.75	126.58
1	A	509	UFT	C4-N3-C2	-5.17	119.76	126.58
1	A	133	UFT	C4-N3-C2	-5.17	119.76	126.58
1	A	523	UFT	C4-N3-C2	-5.17	119.76	126.58
1	A	272	UFT	C4-N3-C2	-5.17	119.77	126.58
1	A	14	UFT	C4-N3-C2	-5.14	119.80	126.58
1	A	470	UFT	C4-N3-C2	-5.14	119.80	126.58
1	A	188	UFT	C4-N3-C2	-5.12	119.82	126.58
1	A	406	UFT	C4-N3-C2	-5.12	119.83	126.58
1	A	479	UFT	C4-N3-C2	-5.11	119.84	126.58
1	A	399	UFT	C4-N3-C2	-5.10	119.85	126.58
1	A	13	UFT	C4-N3-C2	-5.10	119.86	126.58
1	A	480	UFT	C4-N3-C2	-5.10	119.86	126.58
1	A	65	UFT	C4-N3-C2	-5.09	119.86	126.58
1	A	450	UFT	C4-N3-C2	-5.09	119.87	126.58
1	A	48	UFT	C4-N3-C2	-5.07	119.89	126.58
1	A	45	UFT	C4-N3-C2	-5.07	119.90	126.58
1	A	130	UFT	C4-N3-C2	-5.06	119.90	126.58
1	A	66	UFT	C4-N3-C2	-5.06	119.91	126.58
1	A	412	UFT	C4-N3-C2	-5.06	119.91	126.58
1	A	439	UFT	C4-N3-C2	-5.05	119.91	126.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	461	UFT	C4-N3-C2	-5.05	119.92	126.58
1	A	96	UFT	C4-N3-C2	-5.04	119.93	126.58
1	A	529	UFT	C4-N3-C2	-5.03	119.94	126.58
1	A	247	UFT	C4-N3-C2	-5.03	119.94	126.58
1	A	287	CFZ	C2'-C1'-N1	-5.03	106.51	114.20
1	A	44	UFT	C4-N3-C2	-5.02	119.95	126.58
1	A	83	UFT	C4-N3-C2	-5.02	119.96	126.58
1	A	63	UFT	C4-N3-C2	-5.01	119.97	126.58
1	A	549	UFT	C4-N3-C2	-5.01	119.97	126.58
1	A	97	UFT	C4-N3-C2	-5.01	119.97	126.58
1	A	237	UFT	C4-N3-C2	-5.01	119.98	126.58
1	A	167	UFT	C4-N3-C2	-5.01	119.98	126.58
1	A	151	UFT	C4-N3-C2	-5.00	119.98	126.58
1	A	511	UFT	C4-N3-C2	-5.00	119.99	126.58
1	A	27	UFT	C4-N3-C2	-5.00	119.99	126.58
1	A	206	UFT	C4-N3-C2	-5.00	119.99	126.58
1	A	115	UFT	C4-N3-C2	-4.99	119.99	126.58
1	A	459	UFT	C4-N3-C2	-4.99	120.00	126.58
1	A	87	UFT	C4-N3-C2	-4.99	120.00	126.58
1	A	184	UFT	C4-N3-C2	-4.99	120.00	126.58
1	A	398	UFT	C4-N3-C2	-4.98	120.01	126.58
1	A	221	UFT	C4-N3-C2	-4.98	120.01	126.58
1	A	105	UFT	C4-N3-C2	-4.98	120.01	126.58
1	A	285	UFT	C4-N3-C2	-4.98	120.02	126.58
1	A	265	UFT	C4-N3-C2	-4.96	120.03	126.58
1	A	438	UFT	C4-N3-C2	-4.95	120.05	126.58
1	A	35	UFT	C4-N3-C2	-4.95	120.06	126.58
1	A	34	UFT	C4-N3-C2	-4.94	120.06	126.58
1	A	460	UFT	C4-N3-C2	-4.94	120.06	126.58
1	A	510	UFT	C4-N3-C2	-4.92	120.09	126.58
1	A	43	UFT	C4-N3-C2	-4.91	120.11	126.58
1	A	348	UFT	C4-N3-C2	-4.91	120.11	126.58
1	A	114	UFT	C4-N3-C2	-4.90	120.11	126.58
1	A	28	UFT	C4-N3-C2	-4.90	120.12	126.58
1	A	400	UFT	C4-N3-C2	-4.89	120.12	126.58
1	A	432	UFT	C4-N3-C2	-4.88	120.14	126.58
1	A	234	UFT	C4-N3-C2	-4.87	120.15	126.58
1	A	528	UFT	C4-N3-C2	-4.87	120.15	126.58
1	A	365	UFT	C4-N3-C2	-4.87	120.15	126.58
1	A	92	UFT	C4-N3-C2	-4.83	120.21	126.58
1	A	258	UFT	C4-N3-C2	-4.82	120.23	126.58
1	A	140	UFT	C4-N3-C2	-4.79	120.26	126.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	385	UFT	C4-N3-C2	-4.78	120.27	126.58
1	A	289	CFZ	C2'-C1'-N1	-4.78	106.90	114.20
1	A	254	UFT	C4-N3-C2	-4.76	120.30	126.58
1	A	246	CFZ	C2'-C1'-N1	-4.76	106.92	114.20
1	A	113	CFZ	C2'-C1'-N1	-4.76	106.93	114.20
1	A	175	UFT	C4-N3-C2	-4.75	120.31	126.58
1	A	39	UFT	C4-N3-C2	-4.75	120.32	126.58
1	A	543	UFT	C4-N3-C2	-4.73	120.34	126.58
1	A	535	UFT	C4-N3-C2	-4.73	120.34	126.58
1	A	366	UFT	C4-N3-C2	-4.73	120.35	126.58
1	A	465	UFT	C4-N3-C2	-4.72	120.36	126.58
1	A	319	UFT	C4-N3-C2	-4.70	120.38	126.58
1	A	357	UFT	C4-N3-C2	-4.69	120.39	126.58
1	A	7	UFT	C4-N3-C2	-4.67	120.42	126.58
1	A	339	UFT	C4-N3-C2	-4.65	120.44	126.58
1	A	206	UFT	C2'-C1'-N1	-4.65	107.09	114.20
1	A	60	UFT	C4-N3-C2	-4.65	120.45	126.58
1	A	119	UFT	C4-N3-C2	-4.65	120.45	126.58
1	A	47	UFT	C4-N3-C2	-4.63	120.48	126.58
1	A	26	UFT	C2'-C1'-N1	-4.63	107.13	114.20
1	A	477	UFT	C2'-C1'-N1	-4.63	107.13	114.20
1	A	545	UFT	N3-C2-N1	4.62	121.03	114.89
1	A	423	UFT	C4-N3-C2	-4.61	120.50	126.58
1	A	71	UFT	C4-N3-C2	-4.61	120.50	126.58
1	A	88	UFT	C4-N3-C2	-4.59	120.53	126.58
1	A	291	UFT	C4-N3-C2	-4.58	120.54	126.58
1	A	93	CFZ	C2'-C1'-N1	-4.58	107.20	114.20
1	A	282	UFT	C4-N3-C2	-4.58	120.54	126.58
1	A	320	UFT	C4-N3-C2	-4.55	120.57	126.58
1	A	74	UFT	C4-N3-C2	-4.54	120.59	126.58
1	A	276	UFT	C4-N3-C2	-4.53	120.61	126.58
1	A	313	CFZ	C3'-C2'-C1'	4.47	108.54	103.13
1	A	247	UFT	C2'-C1'-N1	-4.46	107.39	114.20
1	A	15	UFT	C2'-C1'-N1	-4.45	107.40	114.20
1	A	331	UFT	C4-N3-C2	-4.45	120.71	126.58
1	A	32	CFZ	C3'-C2'-C1'	4.45	108.51	103.13
1	A	78	CFZ	C2'-C1'-N1	-4.44	107.41	114.20
1	A	286	UFT	C2'-C1'-N1	-4.44	107.41	114.20
1	A	80	UFT	C4-N3-C2	-4.43	120.74	126.58
1	A	47	UFT	C3'-C2'-C1'	4.42	108.48	103.13
1	A	179	CFZ	C2'-C1'-N1	-4.40	107.47	114.20
1	A	538	UFT	C4-N3-C2	-4.37	120.81	126.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	429	CFZ	C3'-C2'-C1'	4.37	108.42	103.13
1	A	366	UFT	C2'-C1'-N1	-4.36	107.54	114.20
1	A	33	CFZ	C3'-C2'-C1'	4.35	108.40	103.13
1	A	65	UFT	C2'-C3'-C4'	4.35	108.02	102.40
1	A	228	UFT	C4-N3-C2	-4.34	120.85	126.58
1	A	437	CFZ	C2'-C1'-N1	-4.29	107.64	114.20
1	A	358	UFT	C2'-C1'-N1	-4.29	107.64	114.20
1	A	147	UFT	N3-C2-N1	4.27	120.56	114.89
1	A	472	CFZ	C2'-C1'-N1	-4.27	107.68	114.20
1	A	32	CFZ	C2'-C3'-C4'	4.26	107.90	102.40
1	A	167	UFT	C2'-C1'-N1	-4.25	107.70	114.20
1	A	358	UFT	N3-C2-N1	4.25	120.53	114.89
1	A	153	UFT	N3-C2-N1	4.24	120.52	114.89
1	A	276	UFT	N3-C2-N1	4.22	120.49	114.89
1	A	33	CFZ	C2'-C3'-C4'	4.21	107.84	102.40
1	A	445	CFZ	C2'-C3'-C4'	4.21	107.84	102.40
1	A	8	UFT	N3-C2-N1	4.19	120.46	114.89
1	A	92	UFT	C2'-C1'-N1	-4.19	107.80	114.20
1	A	436	CFZ	C2'-C1'-N1	-4.17	107.82	114.20
1	A	402	CFZ	C2'-C1'-N1	-4.17	107.83	114.20
1	A	451	UFT	C4-N3-C2	-4.17	121.08	126.58
1	A	291	UFT	C2'-C1'-N1	-4.16	107.84	114.20
1	A	215	UFT	N3-C2-N1	4.15	120.39	114.89
1	A	541	UFT	N3-C2-N1	4.15	120.39	114.89
1	A	80	UFT	C2'-C1'-N1	-4.14	107.87	114.20
1	A	15	UFT	N3-C2-N1	4.14	120.38	114.89
1	A	526	UFT	C2'-C1'-N1	-4.14	107.88	114.20
1	A	512	CFZ	C2'-C3'-C4'	4.09	107.69	102.40
1	A	543	UFT	N3-C2-N1	4.09	120.32	114.89
1	A	221	UFT	N3-C2-N1	4.09	120.31	114.89
1	A	166	UFT	C2'-C1'-N1	-4.08	107.96	114.20
1	A	492	UFT	N3-C2-N1	4.08	120.30	114.89
1	A	49	CFZ	C2'-C3'-C4'	4.07	107.67	102.40
1	A	313	CFZ	C2'-C3'-C4'	4.07	107.66	102.40
1	A	297	CFZ	C2'-C3'-C4'	4.06	107.65	102.40
1	A	66	UFT	C2'-C3'-C4'	4.05	107.64	102.40
1	A	421	UFT	N3-C2-N1	4.05	120.26	114.89
1	A	491	UFT	N3-C2-N1	4.05	120.26	114.89
1	A	166	UFT	N3-C2-N1	4.04	120.26	114.89
1	A	411	UFT	N3-C2-N1	4.04	120.26	114.89
1	A	26	UFT	N3-C2-N1	4.04	120.25	114.89
1	A	60	UFT	C2'-C1'-N1	-4.04	108.03	114.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	509	UFT	N3-C2-N1	4.04	120.25	114.89
1	A	29	CFZ	C3'-C2'-C1'	4.04	108.02	103.13
1	A	286	UFT	N3-C2-N1	4.03	120.25	114.89
1	A	488	UFT	N3-C2-N1	4.03	120.25	114.89
1	A	499	UFT	N3-C2-N1	4.03	120.24	114.89
1	A	509	UFT	C2'-C1'-N1	-4.03	108.04	114.20
1	A	4	CFZ	C2'-C1'-N1	-4.03	108.05	114.20
1	A	98	CFZ	C2'-C3'-C4'	4.03	107.61	102.40
1	A	333	CFZ	C2'-C3'-C4'	4.02	107.60	102.40
1	A	404	CFZ	C3'-C2'-C1'	4.02	108.00	103.13
1	A	387	CFZ	C3'-C2'-C1'	4.02	108.00	103.13
1	A	504	UFT	N3-C2-N1	4.02	120.22	114.89
1	A	156	UFT	N3-C2-N1	4.02	120.22	114.89
1	A	49	CFZ	C3'-C2'-C1'	4.02	107.99	103.13
1	A	512	CFZ	C3'-C2'-C1'	4.02	107.99	103.13
1	A	525	CFZ	C2'-C1'-N1	-4.00	108.09	114.20
1	A	67	CFZ	C2'-C3'-C4'	4.00	107.57	102.40
1	A	105	UFT	N3-C2-N1	3.99	120.19	114.89
1	A	389	UFT	N3-C2-N1	3.99	120.19	114.89
1	A	498	UFT	C2'-C3'-C4'	3.99	107.56	102.40
1	A	133	UFT	N3-C2-N1	3.99	120.18	114.89
1	A	350	UFT	N3-C2-N1	3.99	120.18	114.89
1	A	435	CFZ	C2'-C1'-N1	-3.99	108.11	114.20
1	A	523	UFT	N3-C2-N1	3.98	120.18	114.89
1	A	35	UFT	N3-C2-N1	3.98	120.17	114.89
1	A	265	UFT	N3-C2-N1	3.98	120.17	114.89
1	A	333	CFZ	C3'-C2'-C1'	3.97	107.94	103.13
1	A	535	UFT	N3-C2-N1	3.97	120.16	114.89
1	A	320	UFT	N3-C2-N1	3.96	120.15	114.89
1	A	188	UFT	N3-C2-N1	3.96	120.15	114.89
1	A	229	CFZ	C3'-C2'-C1'	3.96	107.92	103.13
1	A	34	UFT	N3-C2-N1	3.96	120.15	114.89
1	A	20	CFZ	C3'-C2'-C1'	3.96	107.92	103.13
1	A	498	UFT	N3-C2-N1	3.96	120.14	114.89
1	A	194	UFT	N3-C2-N1	3.96	120.14	114.89
1	A	257	CFZ	C3'-C2'-C1'	3.95	107.92	103.13
1	A	477	UFT	N3-C2-N1	3.95	120.14	114.89
1	A	540	UFT	N3-C2-N1	3.95	120.14	114.89
1	A	340	UFT	N3-C2-N1	3.95	120.14	114.89
1	A	462	CFZ	C2'-C3'-C4'	3.95	107.50	102.40
1	A	499	UFT	C2'-C1'-N1	-3.94	108.17	114.20
1	A	14	UFT	N3-C2-N1	3.94	120.12	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	134	UFT	N3-C2-N1	3.94	120.12	114.89
1	A	243	UFT	N3-C2-N1	3.94	120.12	114.89
1	A	83	UFT	N3-C2-N1	3.94	120.12	114.89
1	A	470	UFT	N3-C2-N1	3.94	120.12	114.89
1	A	167	UFT	N3-C2-N1	3.94	120.12	114.89
1	A	212	UFT	N3-C2-N1	3.94	120.11	114.89
1	A	526	UFT	N3-C2-N1	3.94	120.11	114.89
1	A	6	CFZ	C2'-C1'-N1	-3.93	108.19	114.20
1	A	171	UFT	N3-C2-N1	3.93	120.11	114.89
1	A	324	UFT	N3-C2-N1	3.93	120.11	114.89
1	A	365	UFT	N3-C2-N1	3.93	120.11	114.89
1	A	95	UFT	C2'-C3'-C4'	3.93	107.48	102.40
1	A	29	CFZ	C2'-C3'-C4'	3.93	107.48	102.40
1	A	48	UFT	N3-C2-N1	3.93	120.10	114.89
1	A	297	CFZ	C3'-C2'-C1'	3.92	107.88	103.13
1	A	388	UFT	N3-C2-N1	3.92	120.09	114.89
1	A	528	UFT	N3-C2-N1	3.92	120.09	114.89
1	A	440	CFZ	C2'-C3'-C4'	3.92	107.46	102.40
1	A	479	UFT	N3-C2-N1	3.92	120.09	114.89
1	A	174	CFZ	C2'-C1'-N1	-3.91	108.22	114.20
1	A	18	UFT	N3-C2-N1	3.91	120.08	114.89
1	A	151	UFT	N3-C2-N1	3.91	120.08	114.89
1	A	318	UFT	N3-C2-N1	3.91	120.08	114.89
1	A	96	UFT	N3-C2-N1	3.91	120.07	114.89
1	A	423	UFT	N3-C2-N1	3.91	120.07	114.89
1	A	465	UFT	N3-C2-N1	3.91	120.07	114.89
1	A	406	UFT	N3-C2-N1	3.90	120.07	114.89
1	A	95	UFT	N3-C2-N1	3.90	120.06	114.89
1	A	480	UFT	N3-C2-N1	3.90	120.06	114.89
1	A	282	UFT	N3-C2-N1	3.90	120.06	114.89
1	A	399	UFT	N3-C2-N1	3.89	120.05	114.89
1	A	114	UFT	N3-C2-N1	3.89	120.05	114.89
1	A	18	UFT	C2'-C1'-N1	-3.89	108.26	114.20
1	A	43	UFT	N3-C2-N1	3.88	120.05	114.89
1	A	97	UFT	N3-C2-N1	3.88	120.05	114.89
1	A	85	UFT	N3-C2-N1	3.88	120.05	114.89
1	A	272	UFT	N3-C2-N1	3.88	120.04	114.89
1	A	406	UFT	C2'-C3'-C4'	3.88	107.42	102.40
1	A	65	UFT	N3-C2-N1	3.88	120.04	114.89
1	A	116	CFZ	C2'-C3'-C4'	3.88	107.42	102.40
1	A	55	UFT	N3-C2-N1	3.88	120.04	114.89
1	A	225	CFZ	C3'-C2'-C1'	3.88	107.83	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	461	UFT	C2'-C3'-C4'	3.88	107.41	102.40
1	A	549	UFT	N3-C2-N1	3.88	120.04	114.89
1	A	130	UFT	N3-C2-N1	3.87	120.03	114.89
1	A	165	UFT	N3-C2-N1	3.87	120.03	114.89
1	A	184	UFT	N3-C2-N1	3.87	120.03	114.89
1	A	206	UFT	N3-C2-N1	3.87	120.03	114.89
1	A	237	UFT	N3-C2-N1	3.87	120.03	114.89
1	A	480	UFT	C3'-C2'-C1'	3.87	107.81	103.13
1	A	529	UFT	N3-C2-N1	3.87	120.02	114.89
1	A	247	UFT	N3-C2-N1	3.87	120.02	114.89
1	A	177	CFZ	C3'-C2'-C1'	3.86	107.81	103.13
1	A	44	UFT	N3-C2-N1	3.86	120.02	114.89
1	A	45	UFT	N3-C2-N1	3.86	120.02	114.89
1	A	511	UFT	N3-C2-N1	3.86	120.02	114.89
1	A	92	UFT	N3-C2-N1	3.86	120.01	114.89
1	A	391	UFT	N3-C2-N1	3.85	120.01	114.89
1	A	432	UFT	N3-C2-N1	3.85	120.01	114.89
1	A	302	CFZ	C3'-C2'-C1'	3.85	107.80	103.13
1	A	538	UFT	N3-C2-N1	3.85	120.00	114.89
1	A	339	UFT	N3-C2-N1	3.85	120.00	114.89
1	A	66	UFT	N3-C2-N1	3.85	120.00	114.89
1	A	115	UFT	N3-C2-N1	3.85	120.00	114.89
1	A	391	UFT	C5-C4-N3	3.85	120.59	114.84
1	A	459	UFT	N3-C2-N1	3.85	120.00	114.89
1	A	87	UFT	N3-C2-N1	3.85	119.99	114.89
1	A	439	UFT	N3-C2-N1	3.85	119.99	114.89
1	A	400	UFT	N3-C2-N1	3.84	119.98	114.89
1	A	258	UFT	N3-C2-N1	3.84	119.98	114.89
1	A	412	UFT	N3-C2-N1	3.84	119.98	114.89
1	A	63	UFT	N3-C2-N1	3.84	119.98	114.89
1	A	85	UFT	C2'-C1'-N1	-3.83	108.34	114.20
1	A	480	UFT	C2'-C3'-C4'	3.83	107.35	102.40
1	A	254	UFT	N3-C2-N1	3.83	119.97	114.89
1	A	285	UFT	N3-C2-N1	3.83	119.97	114.89
1	A	71	UFT	N3-C2-N1	3.82	119.97	114.89
1	A	450	UFT	N3-C2-N1	3.82	119.96	114.89
1	A	366	UFT	N3-C2-N1	3.82	119.96	114.89
1	A	461	UFT	N3-C2-N1	3.82	119.95	114.89
1	A	178	UFT	N3-C2-N1	3.81	119.95	114.89
1	A	510	UFT	N3-C2-N1	3.81	119.94	114.89
1	A	87	UFT	C3'-C2'-C1'	3.81	107.74	103.13
1	A	445	CFZ	C3'-C2'-C1'	3.81	107.74	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	13	UFT	N3-C2-N1	3.80	119.94	114.89
1	A	40	CFZ	C2'-C3'-C4'	3.80	107.32	102.40
1	A	28	UFT	N3-C2-N1	3.80	119.94	114.89
1	A	234	UFT	N3-C2-N1	3.80	119.94	114.89
1	A	348	UFT	N3-C2-N1	3.80	119.94	114.89
1	A	119	UFT	N3-C2-N1	3.80	119.93	114.89
1	A	27	UFT	N3-C2-N1	3.79	119.93	114.89
1	A	27	UFT	C2'-C3'-C4'	3.79	107.30	102.40
1	A	140	UFT	N3-C2-N1	3.79	119.92	114.89
1	A	529	UFT	C3'-C2'-C1'	3.79	107.72	103.13
1	A	460	UFT	C3'-C2'-C1'	3.79	107.72	103.13
1	A	500	CFZ	C2'-C3'-C4'	3.79	107.30	102.40
1	A	134	UFT	C5-C4-N3	3.79	120.50	114.84
1	A	175	UFT	N3-C2-N1	3.79	119.92	114.89
1	A	438	UFT	N3-C2-N1	3.78	119.91	114.89
1	A	461	UFT	C3'-C2'-C1'	3.78	107.71	103.13
1	A	465	UFT	C3'-C2'-C1'	3.78	107.71	103.13
1	A	170	UFT	C2'-C3'-C4'	3.78	107.29	102.40
1	A	320	UFT	C3'-C2'-C1'	3.78	107.70	103.13
1	A	74	UFT	N3-C2-N1	3.78	119.90	114.89
1	A	191	UFT	N3-C2-N1	3.78	119.90	114.89
1	A	385	UFT	N3-C2-N1	3.77	119.90	114.89
1	A	460	UFT	N3-C2-N1	3.77	119.90	114.89
1	A	88	UFT	N3-C2-N1	3.77	119.89	114.89
1	A	529	UFT	C2'-C3'-C4'	3.77	107.27	102.40
1	A	27	UFT	C3'-C2'-C1'	3.77	107.69	103.13
1	A	44	UFT	C2'-C1'-N1	-3.77	108.44	114.20
1	A	210	CFZ	C3'-C2'-C1'	3.77	107.69	103.13
1	A	545	UFT	C3'-C2'-C1'	3.76	107.69	103.13
1	A	7	UFT	N3-C2-N1	3.76	119.89	114.89
1	A	170	UFT	N3-C2-N1	3.76	119.88	114.89
1	A	400	UFT	C2'-C1'-N1	-3.76	108.46	114.20
1	A	543	UFT	C3'-C2'-C1'	3.74	107.66	103.13
1	A	98	CFZ	C3'-C2'-C1'	3.74	107.66	103.13
1	A	331	UFT	N3-C2-N1	3.74	119.86	114.89
1	A	357	UFT	N3-C2-N1	3.74	119.85	114.89
1	A	60	UFT	N3-C2-N1	3.73	119.84	114.89
1	A	457	CFZ	C2'-C1'-N1	-3.73	108.50	114.20
1	A	452	CFZ	C3'-C2'-C1'	3.73	107.64	103.13
1	A	170	UFT	C3'-C2'-C1'	3.72	107.64	103.13
1	A	84	CFZ	C2'-C1'-N1	-3.72	108.51	114.20
1	A	496	CFZ	C3'-C2'-C1'	3.72	107.63	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	476	CFZ	C2'-C1'-N1	-3.72	108.52	114.20
1	A	291	UFT	N3-C2-N1	3.71	119.82	114.89
1	A	95	UFT	C3'-C2'-C1'	3.71	107.62	103.13
1	A	406	UFT	C3'-C2'-C1'	3.70	107.62	103.13
1	A	47	UFT	N3-C2-N1	3.70	119.81	114.89
1	A	398	UFT	C3'-C2'-C1'	3.70	107.61	103.13
1	A	40	CFZ	C3'-C2'-C1'	3.69	107.60	103.13
1	A	95	UFT	C5-C4-N3	3.69	120.37	114.84
1	A	228	UFT	N3-C2-N1	3.69	119.79	114.89
1	A	528	UFT	C2'-C1'-N1	-3.69	108.56	114.20
1	A	147	UFT	C3'-C2'-C1'	3.69	107.60	103.13
1	A	178	UFT	C5-C4-N3	3.68	120.34	114.84
1	A	34	UFT	C3'-C2'-C1'	3.67	107.58	103.13
1	A	508	CFZ	C2'-C1'-N1	-3.67	108.59	114.20
1	A	540	UFT	C5-C4-N3	3.67	120.33	114.84
1	A	39	UFT	N3-C2-N1	3.67	119.76	114.89
1	A	67	CFZ	C3'-C2'-C1'	3.66	107.57	103.13
1	A	80	UFT	N3-C2-N1	3.66	119.75	114.89
1	A	498	UFT	C3'-C2'-C1'	3.65	107.55	103.13
1	A	26	UFT	C5-C4-N3	3.65	120.30	114.84
1	A	398	UFT	N3-C2-N1	3.65	119.73	114.89
1	A	503	CFZ	C3'-C2'-C1'	3.65	107.54	103.13
1	A	7	UFT	C2'-C1'-N1	-3.64	108.63	114.20
1	A	51	CFZ	C3'-C2'-C1'	3.64	107.54	103.13
1	A	165	UFT	C5-C4-N3	3.64	120.29	114.84
1	A	191	UFT	C5-C4-N3	3.64	120.29	114.84
1	A	97	UFT	C3'-C2'-C1'	3.64	107.54	103.13
1	A	212	UFT	C5-C4-N3	3.64	120.28	114.84
1	A	451	UFT	N3-C2-N1	3.63	119.71	114.89
1	A	350	UFT	O4-C4-C5	-3.63	118.78	125.16
1	A	350	UFT	C5-C4-N3	3.63	120.27	114.84
1	A	39	UFT	C3'-C2'-C1'	3.63	107.52	103.13
1	A	48	UFT	C2'-C3'-C4'	3.63	107.09	102.40
1	A	178	UFT	O4-C4-C5	-3.63	118.78	125.16
1	A	175	UFT	C2'-C1'-N1	-3.62	108.66	114.20
1	A	504	UFT	C5-C4-N3	3.62	120.26	114.84
1	A	286	UFT	C5-C4-N3	3.62	120.25	114.84
1	A	171	UFT	C5-C4-N3	3.62	120.25	114.84
1	A	243	UFT	C5-C4-N3	3.61	120.25	114.84
1	A	215	UFT	C5-C4-N3	3.61	120.25	114.84
1	A	404	CFZ	C2'-C3'-C4'	3.61	107.07	102.40
1	A	490	CFZ	C3'-C2'-C1'	3.60	107.49	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	498	UFT	C5-C4-N3	3.60	120.23	114.84
1	A	500	CFZ	C3'-C2'-C1'	3.60	107.49	103.13
1	A	285	UFT	C2'-C1'-N1	-3.59	108.71	114.20
1	A	154	CFZ	C3'-C2'-C1'	3.59	107.48	103.13
1	A	527	CFZ	C2'-C1'-N1	-3.59	108.71	114.20
1	A	499	UFT	C5-C4-N3	3.59	120.21	114.84
1	A	55	UFT	C5-C4-N3	3.59	120.21	114.84
1	A	156	UFT	C5-C4-N3	3.59	120.21	114.84
1	A	194	UFT	C5-C4-N3	3.59	120.20	114.84
1	A	47	UFT	C2'-C3'-C4'	3.58	107.03	102.40
1	A	526	UFT	C5-C4-N3	3.58	120.20	114.84
1	A	39	UFT	C2'-C3'-C4'	3.58	107.03	102.40
1	A	83	UFT	C2'-C1'-N1	-3.58	108.72	114.20
1	A	318	UFT	C5-C4-N3	3.58	120.20	114.84
1	A	65	UFT	C3'-C2'-C1'	3.58	107.46	103.13
1	A	72	CFZ	C2'-C1'-N1	-3.58	108.73	114.20
1	A	85	UFT	C5-C4-N3	3.57	120.19	114.84
1	A	504	UFT	C2'-C3'-C4'	3.57	107.02	102.40
1	A	170	UFT	C5-C4-N3	3.57	120.17	114.84
1	A	26	UFT	O4-C4-C5	-3.56	118.90	125.16
1	A	391	UFT	O4-C4-C5	-3.56	118.90	125.16
1	A	481	CFZ	C2'-C3'-C4'	3.56	107.00	102.40
1	A	34	UFT	C2'-C3'-C4'	3.55	106.99	102.40
1	A	178	UFT	C2'-C1'-N1	-3.55	108.77	114.20
1	A	358	UFT	C5-C4-N3	3.55	120.15	114.84
1	A	184	UFT	C2'-C1'-N1	-3.55	108.78	114.20
1	A	439	UFT	C2'-C3'-C4'	3.54	106.98	102.40
1	A	14	UFT	C2'-C1'-N1	-3.54	108.78	114.20
1	A	460	UFT	C2'-C3'-C4'	3.54	106.98	102.40
1	A	18	UFT	C5-C4-N3	3.53	120.12	114.84
1	A	477	UFT	C5-C4-N3	3.53	120.12	114.84
1	A	264	CFZ	C3'-C2'-C1'	3.52	107.40	103.13
1	A	111	CFZ	C2'-C1'-N1	-3.52	108.81	114.20
1	A	45	UFT	C2'-C1'-N1	-3.52	108.81	114.20
1	A	539	CFZ	C3'-C2'-C1'	3.52	107.40	103.13
1	A	134	UFT	O4-C4-C5	-3.52	118.97	125.16
1	A	398	UFT	C5-C4-N3	3.52	120.11	114.84
1	A	324	UFT	C2'-C3'-C4'	3.52	106.95	102.40
1	A	475	CFZ	C2'-C1'-N1	-3.52	108.83	114.20
1	A	492	UFT	C5-C4-N3	3.51	120.10	114.84
1	A	272	UFT	C5-C4-N3	3.51	120.10	114.84
1	A	13	UFT	C5-C4-N3	3.51	120.09	114.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	324	UFT	C5-C4-N3	3.51	120.09	114.84
1	A	365	UFT	C2'-C1'-N1	-3.51	108.84	114.20
1	A	399	UFT	C5-C4-N3	3.51	120.09	114.84
1	A	319	UFT	N3-C2-N1	3.51	119.55	114.89
1	A	388	UFT	C5-C4-N3	3.51	120.08	114.84
1	A	450	UFT	C5-C4-N3	3.51	120.08	114.84
1	A	127	CFZ	C2'-C1'-N1	-3.50	108.84	114.20
1	A	452	CFZ	C2'-C3'-C4'	3.50	106.92	102.40
1	A	64	CFZ	C2'-C1'-N1	-3.50	108.85	114.20
1	A	166	UFT	C5-C4-N3	3.50	120.07	114.84
1	A	252	CFZ	C3'-C2'-C1'	3.49	107.36	103.13
1	A	541	UFT	C5-C4-N3	3.49	120.06	114.84
1	A	318	UFT	C2'-C3'-C4'	3.49	106.91	102.40
1	A	503	CFZ	C2'-C3'-C4'	3.49	106.91	102.40
1	A	331	UFT	C2'-C1'-N1	-3.49	108.87	114.20
1	A	479	UFT	C3'-C2'-C1'	3.48	107.35	103.13
1	A	389	UFT	C5-C4-N3	3.48	120.05	114.84
1	A	488	UFT	C5-C4-N3	3.48	120.05	114.84
1	A	247	UFT	C5-C4-N3	3.48	120.05	114.84
1	A	412	UFT	C5-C4-N3	3.48	120.04	114.84
1	A	337	CFZ	C2'-C1'-N1	-3.47	108.89	114.20
1	A	133	UFT	C5-C4-N3	3.47	120.03	114.84
1	A	14	UFT	C5-C4-N3	3.47	120.03	114.84
1	A	105	UFT	C3'-C2'-C1'	3.47	107.33	103.13
1	A	523	UFT	C5-C4-N3	3.46	120.02	114.84
1	A	130	UFT	C5-C4-N3	3.46	120.02	114.84
1	A	65	UFT	C5-C4-N3	3.46	120.02	114.84
1	A	63	UFT	C5-C4-N3	3.46	120.02	114.84
1	A	461	UFT	C5-C4-N3	3.46	120.02	114.84
1	A	509	UFT	C5-C4-N3	3.46	120.01	114.84
1	A	15	UFT	C5-C4-N3	3.46	120.01	114.84
1	A	480	UFT	C5-C4-N3	3.45	120.01	114.84
1	A	411	UFT	C5-C4-N3	3.45	120.00	114.84
1	A	340	UFT	C5-C4-N3	3.45	120.00	114.84
1	A	470	UFT	C5-C4-N3	3.45	120.00	114.84
1	A	8	UFT	C5-C4-N3	3.45	120.00	114.84
1	A	406	UFT	C5-C4-N3	3.45	120.00	114.84
1	A	88	UFT	C3'-C2'-C1'	3.45	107.30	103.13
1	A	491	UFT	C5-C4-N3	3.44	119.99	114.84
1	A	188	UFT	C5-C4-N3	3.44	119.99	114.84
1	A	439	UFT	C5-C4-N3	3.44	119.99	114.84
1	A	44	UFT	C5-C4-N3	3.44	119.99	114.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	153	UFT	C5-C4-N3	3.44	119.98	114.84
1	A	45	UFT	C5-C4-N3	3.44	119.98	114.84
1	A	27	UFT	C5-C4-N3	3.44	119.98	114.84
1	A	479	UFT	C5-C4-N3	3.43	119.98	114.84
1	A	140	UFT	C2'-C1'-N1	-3.43	108.95	114.20
1	A	421	UFT	C5-C4-N3	3.43	119.98	114.84
1	A	459	UFT	C5-C4-N3	3.43	119.97	114.84
1	A	237	UFT	C5-C4-N3	3.43	119.97	114.84
1	A	243	UFT	C3'-C2'-C1'	3.43	107.28	103.13
1	A	191	UFT	O4-C4-C5	-3.43	119.13	125.16
1	A	540	UFT	O4-C4-C5	-3.43	119.13	125.16
1	A	206	UFT	C5-C4-N3	3.43	119.97	114.84
1	A	108	CFZ	C2'-C1'-N1	-3.43	108.96	114.20
1	A	398	UFT	C2'-C3'-C4'	3.43	106.83	102.40
1	A	511	UFT	C2'-C3'-C4'	3.42	106.83	102.40
1	A	285	UFT	C5-C4-N3	3.42	119.96	114.84
1	A	433	CFZ	C2'-C1'-N1	-3.42	108.97	114.20
1	A	170	UFT	O4-C4-C5	-3.42	119.14	125.16
1	A	498	UFT	O4-C4-C5	-3.42	119.14	125.16
1	A	529	UFT	C5-C4-N3	3.42	119.95	114.84
1	A	87	UFT	C5-C4-N3	3.42	119.95	114.84
1	A	109	CFZ	C2'-C1'-N1	-3.42	108.98	114.20
1	A	319	UFT	C3'-C2'-C1'	3.42	107.27	103.13
1	A	96	UFT	C5-C4-N3	3.41	119.95	114.84
1	A	66	UFT	C5-C4-N3	3.41	119.95	114.84
1	A	184	UFT	C5-C4-N3	3.40	119.93	114.84
1	A	460	UFT	C5-C4-N3	3.40	119.93	114.84
1	A	165	UFT	O4-C4-C5	-3.40	119.18	125.16
1	A	115	UFT	C5-C4-N3	3.40	119.93	114.84
1	A	511	UFT	C5-C4-N3	3.40	119.93	114.84
1	A	234	UFT	C5-C4-N3	3.40	119.92	114.84
1	A	407	CFZ	C2'-C3'-C4'	3.40	106.79	102.40
1	A	538	UFT	C3'-C2'-C1'	3.40	107.24	103.13
1	A	348	UFT	C5-C4-N3	3.39	119.92	114.84
1	A	523	UFT	C2'-C1'-N1	-3.39	109.01	114.20
1	A	438	UFT	C5-C4-N3	3.39	119.92	114.84
1	A	462	CFZ	C3'-C2'-C1'	3.39	107.23	103.13
1	A	212	UFT	O4-C4-C5	-3.39	119.20	125.16
1	A	97	UFT	C5-C4-N3	3.39	119.91	114.84
1	A	510	UFT	C5-C4-N3	3.39	119.91	114.84
1	A	510	UFT	C2'-C3'-C4'	3.39	106.78	102.40
1	A	28	UFT	C5-C4-N3	3.38	119.90	114.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	41	CFZ	C3'-C2'-C1'	3.38	107.23	103.13
1	A	39	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	167	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	319	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	545	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	528	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	220	CFZ	C3'-C2'-C1'	3.38	107.22	103.13
1	A	83	UFT	C5-C4-N3	3.38	119.90	114.84
1	A	35	UFT	C5-C4-N3	3.38	119.89	114.84
1	A	549	UFT	C5-C4-N3	3.38	119.89	114.84
1	A	400	UFT	C5-C4-N3	3.38	119.89	114.84
1	A	439	UFT	C3'-C2'-C1'	3.38	107.22	103.13
1	A	47	UFT	C1'-N1-C2	3.37	123.67	117.57
1	A	385	UFT	C5-C4-N3	3.37	119.88	114.84
1	A	354	CFZ	C2'-C1'-N1	-3.37	109.05	114.20
1	A	368	CFZ	C3'-C2'-C1'	3.37	107.21	103.13
1	A	85	UFT	O4-C4-C5	-3.37	119.24	125.16
1	A	171	UFT	C3'-C2'-C1'	3.37	107.21	103.13
1	A	116	CFZ	C3'-C2'-C1'	3.37	107.20	103.13
1	A	114	UFT	C5-C4-N3	3.36	119.87	114.84
1	A	115	UFT	C2'-C3'-C4'	3.36	106.75	102.40
1	A	43	UFT	C5-C4-N3	3.36	119.86	114.84
1	A	191	UFT	C3'-C2'-C1'	3.36	107.20	103.13
1	A	48	UFT	C5-C4-N3	3.36	119.86	114.84
1	A	151	UFT	C5-C4-N3	3.35	119.86	114.84
1	A	104	CFZ	C3'-C2'-C1'	3.35	107.19	103.13
1	A	407	CFZ	C3'-C2'-C1'	3.35	107.18	103.13
1	A	259	CFZ	C3'-C2'-C1'	3.35	107.18	103.13
1	A	97	UFT	C2'-C3'-C4'	3.35	106.73	102.40
1	A	490	CFZ	C2'-C3'-C4'	3.34	106.72	102.40
1	A	507	CFZ	C2'-C1'-N1	-3.34	109.10	114.20
1	A	237	UFT	C2'-C1'-N1	-3.33	109.11	114.20
1	A	130	UFT	C2'-C1'-N1	-3.33	109.11	114.20
1	A	140	UFT	C5-C4-N3	3.33	119.81	114.84
1	A	215	UFT	C3'-C2'-C1'	3.32	107.15	103.13
1	A	162	CFZ	C3'-C2'-C1'	3.32	107.15	103.13
1	A	34	UFT	C5-C4-N3	3.32	119.81	114.84
1	A	209	CFZ	C3'-C2'-C1'	3.32	107.15	103.13
1	A	511	UFT	C3'-C2'-C1'	3.31	107.14	103.13
1	A	432	UFT	C5-C4-N3	3.31	119.80	114.84
1	A	147	UFT	C5-C4-N3	3.31	119.79	114.84
1	A	324	UFT	C3'-C2'-C1'	3.30	107.13	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	276	UFT	C3'-C2'-C1'	3.30	107.13	103.13
1	A	92	UFT	C5-C4-N3	3.30	119.78	114.84
1	A	171	UFT	O4-C4-C5	-3.30	119.36	125.16
1	A	366	UFT	C5-C4-N3	3.30	119.78	114.84
1	A	47	UFT	C5-C4-N3	3.30	119.77	114.84
1	A	105	UFT	C5-C4-N3	3.30	119.77	114.84
1	A	526	UFT	O4-C4-C5	-3.30	119.36	125.16
1	A	310	CFZ	C2'-C1'-N1	-3.29	109.17	114.20
1	A	280	CFZ	C3'-C2'-C1'	3.29	107.12	103.13
1	A	265	UFT	C5-C4-N3	3.29	119.76	114.84
1	A	357	UFT	C5-C4-N3	3.29	119.76	114.84
1	A	339	UFT	C3'-C2'-C1'	3.29	107.11	103.13
1	A	258	UFT	C5-C4-N3	3.28	119.75	114.84
1	A	45	UFT	O4-C4-C5	-3.28	119.39	125.16
1	A	479	UFT	C2'-C3'-C4'	3.28	106.64	102.40
1	A	194	UFT	C3'-C2'-C1'	3.28	107.10	103.13
1	A	175	UFT	C5-C4-N3	3.28	119.74	114.84
1	A	7	UFT	C5-C4-N3	3.27	119.74	114.84
1	A	230	CFZ	C3'-C2'-C1'	3.27	107.09	103.13
1	A	385	UFT	C3'-C2'-C1'	3.27	107.09	103.13
1	A	119	UFT	C2'-C1'-N1	-3.27	109.20	114.20
1	A	60	UFT	C5-C4-N3	3.27	119.73	114.84
1	A	365	UFT	C5-C4-N3	3.26	119.72	114.84
1	A	160	CFZ	C3'-C2'-C1'	3.26	107.08	103.13
1	A	341	CFZ	C3'-C2'-C1'	3.26	107.08	103.13
1	A	301	CFZ	C2'-C3'-C4'	3.26	106.62	102.40
1	A	234	UFT	C2'-C1'-N1	-3.26	109.22	114.20
1	A	95	UFT	O4-C4-C5	-3.26	119.43	125.16
1	A	286	UFT	O4-C4-C5	-3.26	119.43	125.16
1	A	388	UFT	O4-C4-C5	-3.26	119.43	125.16
1	A	194	UFT	C2'-C3'-C4'	3.26	106.61	102.40
1	A	291	UFT	C5-C4-N3	3.25	119.71	114.84
1	A	504	UFT	O4-C4-C5	-3.25	119.44	125.16
1	A	530	CFZ	C3'-C2'-C1'	3.25	107.07	103.13
1	A	487	CFZ	C3'-C2'-C1'	3.25	107.07	103.13
1	A	225	CFZ	C2'-C3'-C4'	3.25	106.60	102.40
1	A	254	UFT	C5-C4-N3	3.24	119.69	114.84
1	A	221	UFT	C5-C4-N3	3.24	119.69	114.84
1	A	257	CFZ	C2'-C3'-C4'	3.24	106.59	102.40
1	A	55	UFT	O4-C4-C5	-3.24	119.46	125.16
1	A	43	UFT	C2'-C1'-N1	-3.24	109.25	114.20
1	A	318	UFT	C3'-C2'-C1'	3.24	107.05	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	279	CFZ	C2'-C1'-N1	-3.23	109.27	114.20
1	A	318	UFT	O4-C4-C5	-3.23	119.48	125.16
1	A	314	CFZ	C3'-C2'-C1'	3.23	107.04	103.13
1	A	229	CFZ	C2'-C3'-C4'	3.22	106.56	102.40
1	A	272	UFT	O4-C4-C5	-3.22	119.50	125.16
1	A	48	UFT	C3'-C2'-C1'	3.21	107.02	103.13
1	A	105	UFT	C2'-C3'-C4'	3.20	106.54	102.40
1	A	215	UFT	O4-C4-C5	-3.20	119.53	125.16
1	A	465	UFT	C5-C4-N3	3.20	119.63	114.84
1	A	357	UFT	C2'-C1'-N1	-3.20	109.31	114.20
1	A	63	UFT	C2'-C1'-N1	-3.20	109.31	114.20
1	A	324	UFT	O4-C4-C5	-3.19	119.54	125.16
1	A	491	UFT	C3'-C2'-C1'	3.19	107.00	103.13
1	A	171	UFT	C2'-C3'-C4'	3.19	106.53	102.40
1	A	364	CFZ	C3'-C2'-C1'	3.19	107.00	103.13
1	A	114	UFT	C3'-C2'-C1'	3.19	106.99	103.13
1	A	119	UFT	C5-C4-N3	3.18	119.60	114.84
1	A	258	UFT	C3'-C2'-C1'	3.18	106.98	103.13
1	A	88	UFT	C5-C4-N3	3.18	119.59	114.84
1	A	467	CFZ	C3'-C2'-C1'	3.17	106.97	103.13
1	A	545	UFT	C2'-C3'-C4'	3.17	106.50	102.40
1	A	156	UFT	O4-C4-C5	-3.16	119.60	125.16
1	A	438	UFT	C2'-C1'-N1	-3.16	109.37	114.20
1	A	423	UFT	C5-C4-N3	3.16	119.57	114.84
1	A	44	UFT	O4-C4-C5	-3.16	119.61	125.16
1	A	450	UFT	O4-C4-C5	-3.15	119.62	125.16
1	A	252	CFZ	C2'-C3'-C4'	3.15	106.47	102.40
1	A	74	UFT	C5-C4-N3	3.15	119.55	114.84
1	A	71	UFT	C2'-C1'-N1	-3.15	109.39	114.20
1	A	535	UFT	C5-C4-N3	3.15	119.55	114.84
1	A	278	CFZ	C2'-C1'-N1	-3.15	109.39	114.20
1	A	125	CFZ	C3'-C2'-C1'	3.15	106.94	103.13
1	A	110	CFZ	C2'-C1'-N1	-3.15	109.39	114.20
1	A	399	UFT	O4-C4-C5	-3.14	119.63	125.16
1	A	66	UFT	C3'-C2'-C1'	3.14	106.93	103.13
1	A	432	UFT	C3'-C2'-C1'	3.14	106.93	103.13
1	A	80	UFT	C5-C4-N3	3.14	119.53	114.84
1	A	540	UFT	C3'-C2'-C1'	3.12	106.91	103.13
1	A	502	CFZ	C3'-C2'-C1'	3.12	106.91	103.13
1	A	348	UFT	C3'-C2'-C1'	3.12	106.90	103.13
1	A	504	UFT	C3'-C2'-C1'	3.11	106.90	103.13
1	A	340	UFT	O4-C4-C5	-3.11	119.70	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	320	UFT	C2'-C1'-N1	-3.11	109.45	114.20
1	A	251	CFZ	C3'-C2'-C1'	3.11	106.89	103.13
1	A	339	UFT	C5-C4-N3	3.10	119.48	114.84
1	A	477	UFT	O4-C4-C5	-3.10	119.70	125.16
1	A	13	UFT	O4-C4-C5	-3.10	119.70	125.16
1	A	87	UFT	C2'-C3'-C4'	3.10	106.41	102.40
1	A	12	CFZ	C3'-C2'-C1'	3.10	106.88	103.13
1	A	331	UFT	C5-C4-N3	3.10	119.47	114.84
1	A	194	UFT	O4-C4-C5	-3.09	119.72	125.16
1	A	385	UFT	C2'-C3'-C4'	3.09	106.40	102.40
1	A	71	UFT	C5-C4-N3	3.09	119.46	114.84
1	A	11	CFZ	C3'-C2'-C1'	3.09	106.87	103.13
1	A	18	UFT	O4-C4-C5	-3.09	119.73	125.16
1	A	389	UFT	O4-C4-C5	-3.08	119.74	125.16
1	A	419	CFZ	C2'-C3'-C4'	3.08	106.39	102.40
1	A	8	UFT	C2'-C1'-N1	-3.08	109.49	114.20
1	A	470	UFT	O4-C4-C5	-3.08	119.75	125.16
1	A	459	UFT	O4-C4-C5	-3.07	119.75	125.16
1	A	543	UFT	C5-C4-N3	3.07	119.43	114.84
1	A	499	UFT	O4-C4-C5	-3.07	119.77	125.16
1	A	510	UFT	C3'-C2'-C1'	3.06	106.84	103.13
1	A	483	CFZ	C2'-C1'-N1	-3.06	109.52	114.20
1	A	221	UFT	C2'-C1'-N1	-3.06	109.53	114.20
1	A	10	CFZ	C2'-C1'-N1	-3.05	109.54	114.20
1	A	228	UFT	C5-C4-N3	3.05	119.40	114.84
1	A	166	UFT	O4-C4-C5	-3.04	119.81	125.16
1	A	459	UFT	C2'-C1'-N1	-3.04	109.56	114.20
1	A	325	CFZ	C3'-C2'-C1'	3.04	106.81	103.13
1	A	509	UFT	O4-C4-C5	-3.04	119.82	125.16
1	A	488	UFT	C2'-C1'-N1	-3.04	109.56	114.20
1	A	255	CFZ	C2'-C1'-N1	-3.04	109.56	114.20
1	A	285	UFT	O4-C4-C5	-3.04	119.82	125.16
1	A	488	UFT	O4-C4-C5	-3.03	119.83	125.16
1	A	391	UFT	C3'-C2'-C1'	3.03	106.80	103.13
1	A	397	CFZ	C2'-C1'-N1	-3.03	109.57	114.20
1	A	87	UFT	O4-C4-C5	-3.03	119.83	125.16
1	A	282	UFT	C5-C4-N3	3.03	119.37	114.84
1	A	13	UFT	C2'-C1'-N1	-3.03	109.57	114.20
1	A	467	CFZ	C2'-C3'-C4'	3.03	106.31	102.40
1	A	234	UFT	O4-C4-C5	-3.03	119.84	125.16
1	A	115	UFT	C3'-C2'-C1'	3.02	106.79	103.13
1	A	398	UFT	O4-C4-C5	-3.02	119.85	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	243	UFT	O4-C4-C5	-3.02	119.85	125.16
1	A	211	CFZ	C3'-C2'-C1'	3.02	106.78	103.13
1	A	340	UFT	C3'-C2'-C1'	3.02	106.78	103.13
1	A	411	UFT	O4-C4-C5	-3.01	119.86	125.16
1	A	358	UFT	O4-C4-C5	-3.01	119.87	125.16
1	A	522	CFZ	C2'-C1'-N1	-3.01	109.60	114.20
1	A	523	UFT	O4-C4-C5	-3.01	119.87	125.16
1	A	160	CFZ	C2'-C1'-N1	-3.00	109.62	114.20
1	A	374	CFZ	C2'-C1'-N1	-2.99	109.62	114.20
1	A	491	UFT	O4-C4-C5	-2.99	119.89	125.16
1	A	412	UFT	O4-C4-C5	-2.99	119.90	125.16
1	A	541	UFT	O4-C4-C5	-2.98	119.91	125.16
1	A	247	UFT	O4-C4-C5	-2.98	119.91	125.16
1	A	132	CFZ	C3'-C2'-C1'	2.98	106.74	103.13
1	A	27	UFT	O4-C4-C5	-2.98	119.92	125.16
1	A	530	CFZ	C2'-C3'-C4'	2.98	106.25	102.40
1	A	250	CFZ	C3'-C2'-C1'	2.98	106.74	103.13
1	A	65	UFT	C2'-C1'-N1	-2.98	109.65	114.20
1	A	212	UFT	C3'-C2'-C1'	2.98	106.73	103.13
1	A	301	CFZ	C3'-C2'-C1'	2.97	106.73	103.13
1	A	501	CFZ	C2'-C1'-N1	-2.97	109.66	114.20
1	A	302	CFZ	C2'-C3'-C4'	2.97	106.25	102.40
1	A	147	UFT	O4-C4-C5	-2.97	119.94	125.16
1	A	133	UFT	O4-C4-C5	-2.97	119.94	125.16
1	A	35	UFT	O4-C4-C5	-2.96	119.95	125.16
1	A	480	UFT	O4-C4-C5	-2.96	119.96	125.16
1	A	461	UFT	O4-C4-C5	-2.96	119.96	125.16
1	A	340	UFT	C2'-C3'-C4'	2.95	106.22	102.40
1	A	48	UFT	O4-C4-C5	-2.95	119.97	125.16
1	A	319	UFT	C2'-C3'-C4'	2.95	106.21	102.40
1	A	163	CFZ	C3'-C2'-C1'	2.95	106.70	103.13
1	A	237	UFT	O4-C4-C5	-2.95	119.98	125.16
1	A	385	UFT	O4-C4-C5	-2.95	119.98	125.16
1	A	65	UFT	O4-C4-C5	-2.95	119.98	125.16
1	A	439	UFT	O4-C4-C5	-2.95	119.98	125.16
1	A	115	UFT	O4-C4-C5	-2.95	119.98	125.16
1	A	63	UFT	O4-C4-C5	-2.94	119.99	125.16
1	A	496	CFZ	C2'-C1'-N1	-2.94	109.70	114.20
1	A	492	UFT	O4-C4-C5	-2.94	119.99	125.16
1	A	406	UFT	O4-C4-C5	-2.94	119.99	125.16
1	A	529	UFT	O4-C4-C5	-2.94	120.00	125.16
1	A	339	UFT	C2'-C3'-C4'	2.94	106.20	102.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	12	CFZ	C2'-C1'-N1	-2.94	109.71	114.20
1	A	430	CFZ	C3'-C2'-C1'	2.94	106.69	103.13
1	A	184	UFT	O4-C4-C5	-2.94	120.00	125.16
1	A	538	UFT	C5-C4-N3	2.93	119.23	114.84
1	A	96	UFT	C3'-C2'-C1'	2.93	106.68	103.13
1	A	510	UFT	O4-C4-C5	-2.93	120.01	125.16
1	A	298	CFZ	C2'-C3'-C4'	2.93	106.19	102.40
1	A	8	UFT	O4-C4-C5	-2.93	120.01	125.16
1	A	465	UFT	C2'-C3'-C4'	2.93	106.19	102.40
1	A	451	UFT	C5-C4-N3	2.93	119.22	114.84
1	A	74	UFT	C3'-C2'-C1'	2.93	106.67	103.13
1	A	15	UFT	O4-C4-C5	-2.93	120.01	125.16
1	A	438	UFT	O4-C4-C5	-2.93	120.01	125.16
1	A	499	UFT	C2'-C3'-C4'	2.93	106.18	102.40
1	A	511	UFT	O4-C4-C5	-2.92	120.02	125.16
1	A	188	UFT	O4-C4-C5	-2.92	120.02	125.16
1	A	14	UFT	O4-C4-C5	-2.92	120.02	125.16
1	A	281	CFZ	C3'-C2'-C1'	2.92	106.67	103.13
1	A	499	UFT	C3'-C2'-C1'	2.92	106.67	103.13
1	A	97	UFT	O4-C4-C5	-2.92	120.03	125.16
1	A	264	CFZ	C2'-C3'-C4'	2.92	106.17	102.40
1	A	319	UFT	O4-C4-C5	-2.92	120.03	125.16
1	A	421	UFT	O4-C4-C5	-2.91	120.03	125.16
1	A	28	UFT	O4-C4-C5	-2.91	120.04	125.16
1	A	96	UFT	O4-C4-C5	-2.91	120.04	125.16
1	A	124	CFZ	C3'-C2'-C1'	2.91	106.65	103.13
1	A	220	CFZ	C2'-C3'-C4'	2.91	106.16	102.40
1	A	47	UFT	O4-C4-C5	-2.91	120.05	125.16
1	A	130	UFT	O4-C4-C5	-2.91	120.05	125.16
1	A	428	CFZ	C2'-C1'-N1	-2.91	109.76	114.20
1	A	470	UFT	C2'-C1'-N1	-2.90	109.76	114.20
1	A	283	CFZ	C3'-C2'-C1'	2.90	106.64	103.13
1	A	386	CFZ	C3'-C2'-C1'	2.90	106.64	103.13
1	A	387	CFZ	C2'-C3'-C4'	2.90	106.15	102.40
1	A	88	UFT	C2'-C3'-C4'	2.90	106.15	102.40
1	A	479	UFT	O4-C4-C5	-2.90	120.06	125.16
1	A	412	UFT	C3'-C2'-C1'	2.90	106.64	103.13
1	A	440	CFZ	C3'-C2'-C1'	2.90	106.64	103.13
1	A	66	UFT	O4-C4-C5	-2.90	120.07	125.16
1	A	460	UFT	O4-C4-C5	-2.89	120.07	125.16
1	A	254	UFT	C2'-C1'-N1	-2.89	109.78	114.20
1	A	325	CFZ	C2'-C3'-C4'	2.89	106.14	102.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	320	UFT	C5-C4-N3	2.89	119.16	114.84
1	A	389	UFT	C2'-C1'-N1	-2.88	109.79	114.20
1	A	545	UFT	O4-C4-C5	-2.88	120.09	125.16
1	A	549	UFT	O4-C4-C5	-2.88	120.09	125.16
1	A	213	CFZ	C3'-C2'-C1'	2.88	106.61	103.13
1	A	39	UFT	O4-C4-C5	-2.88	120.10	125.16
1	A	153	UFT	C3'-C2'-C1'	2.87	106.61	103.13
1	A	419	CFZ	C3'-C2'-C1'	2.87	106.61	103.13
1	A	276	UFT	C5-C4-N3	2.87	119.13	114.84
1	A	391	UFT	C2'-C3'-C4'	2.86	106.10	102.40
1	A	492	UFT	C2'-C1'-N1	-2.86	109.83	114.20
1	A	215	UFT	C2'-C3'-C4'	2.86	106.10	102.40
1	A	114	UFT	O4-C4-C5	-2.86	120.13	125.16
1	A	262	CFZ	C2'-C3'-C4'	2.86	106.09	102.40
1	A	281	CFZ	C2'-C1'-N1	-2.85	109.84	114.20
1	A	282	UFT	C3'-C2'-C1'	2.85	106.58	103.13
1	A	20	CFZ	C2'-C3'-C4'	2.85	106.09	102.40
1	A	151	UFT	O4-C4-C5	-2.85	120.15	125.16
1	A	153	UFT	O4-C4-C5	-2.85	120.15	125.16
1	A	43	UFT	O4-C4-C5	-2.84	120.17	125.16
1	A	415	CFZ	C2'-C1'-N1	-2.84	109.86	114.20
1	A	528	UFT	O4-C4-C5	-2.83	120.18	125.16
1	A	210	CFZ	C2'-C1'-N1	-2.83	109.87	114.20
1	A	34	UFT	O4-C4-C5	-2.83	120.19	125.16
1	A	535	UFT	C2'-C1'-N1	-2.83	109.88	114.20
1	A	228	UFT	C2'-C1'-N1	-2.82	109.88	114.20
1	A	541	UFT	C2'-C1'-N1	-2.82	109.88	114.20
1	A	83	UFT	O4-C4-C5	-2.82	120.19	125.16
1	A	432	UFT	O4-C4-C5	-2.82	120.20	125.16
1	A	216	CFZ	C2'-C1'-N1	-2.82	109.89	114.20
1	A	259	CFZ	C2'-C3'-C4'	2.82	106.04	102.40
1	A	298	CFZ	C3'-C2'-C1'	2.81	106.53	103.13
1	A	307	CFZ	C2'-C1'-N1	-2.81	109.91	114.20
1	A	433	CFZ	C3'-C2'-C1'	2.81	106.53	103.13
1	A	206	UFT	O4-C4-C5	-2.80	120.23	125.16
1	A	223	CFZ	C3'-C2'-C1'	2.80	106.53	103.13
1	A	348	UFT	O4-C4-C5	-2.80	120.24	125.16
1	A	349	CFZ	C3'-C2'-C1'	2.80	106.52	103.13
1	A	400	UFT	O4-C4-C5	-2.80	120.24	125.16
1	A	20	CFZ	C2'-C1'-N1	-2.79	109.93	114.20
1	A	307	CFZ	C3'-C2'-C1'	2.79	106.51	103.13
1	A	162	CFZ	C2'-C3'-C4'	2.79	106.00	102.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	75	CFZ	C3'-C2'-C1'	2.78	106.50	103.13
1	A	549	UFT	C2'-C1'-N1	-2.78	109.95	114.20
1	A	262	CFZ	C3'-C2'-C1'	2.78	106.50	103.13
1	A	140	UFT	O4-C4-C5	-2.78	120.27	125.16
1	A	280	CFZ	C2'-C1'-N1	-2.78	109.95	114.20
1	A	191	UFT	C2'-C3'-C4'	2.78	105.99	102.40
1	A	411	UFT	C2'-C1'-N1	-2.78	109.96	114.20
1	A	28	UFT	C3'-C2'-C1'	2.77	106.49	103.13
1	A	89	CFZ	C3'-C2'-C1'	2.77	106.49	103.13
1	A	228	UFT	C3'-C2'-C1'	2.77	106.49	103.13
1	A	133	UFT	C3'-C2'-C1'	2.77	106.48	103.13
1	A	265	UFT	C2'-C1'-N1	-2.77	109.97	114.20
1	A	346	CFZ	C2'-C3'-C4'	2.77	105.98	102.40
1	A	413	CFZ	C2'-C1'-N1	-2.77	109.97	114.20
1	A	78	CFZ	C4'-O4'-C1'	-2.77	103.37	109.47
1	A	451	UFT	C2'-C1'-N1	-2.77	109.97	114.20
1	A	74	UFT	C2'-C1'-N1	-2.76	109.98	114.20
1	A	11	CFZ	C2'-C1'-N1	-2.76	109.98	114.20
1	A	167	UFT	O4-C4-C5	-2.76	120.31	125.16
1	A	344	CFZ	C3'-C2'-C1'	2.75	106.46	103.13
1	A	165	UFT	C2'-C1'-N1	-2.74	110.01	114.20
1	A	146	CFZ	C3'-C2'-C1'	2.74	106.45	103.13
1	A	495	CFZ	C3'-C2'-C1'	2.74	106.44	103.13
1	A	357	UFT	O4-C4-C5	-2.73	120.35	125.16
1	A	119	UFT	O4-C4-C5	-2.73	120.36	125.16
1	A	221	UFT	O4-C4-C5	-2.73	120.36	125.16
1	A	428	CFZ	C3'-C2'-C1'	2.72	106.43	103.13
1	A	483	CFZ	C3'-C2'-C1'	2.72	106.42	103.13
1	A	468	CFZ	C2'-C1'-N1	-2.72	110.05	114.20
1	A	210	CFZ	C2'-C3'-C4'	2.72	105.92	102.40
1	A	465	UFT	O4-C4-C5	-2.72	120.38	125.16
1	A	279	CFZ	C3'-C2'-C1'	2.72	106.42	103.13
1	A	105	UFT	O4-C4-C5	-2.71	120.40	125.16
1	A	146	CFZ	C2'-C1'-N1	-2.71	110.06	114.20
1	A	320	UFT	O4-C4-C5	-2.71	120.40	125.16
1	A	255	CFZ	C3'-C2'-C1'	2.70	106.40	103.13
1	A	114	UFT	C2'-C3'-C4'	2.70	105.89	102.40
1	A	421	UFT	C2'-C1'-N1	-2.70	110.07	114.20
1	A	448	CFZ	C2'-C1'-N1	-2.70	110.08	114.20
1	A	397	CFZ	C3'-C2'-C1'	2.70	106.40	103.13
1	A	223	CFZ	C2'-C1'-N1	-2.70	110.08	114.20
1	A	438	UFT	C3'-C2'-C1'	2.69	106.39	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	539	CFZ	C2'-C3'-C4'	2.69	105.88	102.40
1	A	350	UFT	C2'-C1'-N1	-2.69	110.09	114.20
1	A	386	CFZ	C2'-C1'-N1	-2.68	110.10	114.20
1	A	272	UFT	C2'-C1'-N1	-2.68	110.10	114.20
1	A	265	UFT	O4-C4-C5	-2.68	120.44	125.16
1	A	499	UFT	O4'-C1'-N1	2.68	114.49	108.36
1	A	535	UFT	O4-C4-C5	-2.68	120.45	125.16
1	A	92	UFT	O4-C4-C5	-2.67	120.46	125.16
1	A	55	UFT	C3'-C2'-C1'	2.67	106.37	103.13
1	A	101	CFZ	C3'-C2'-C1'	2.67	106.37	103.13
1	A	487	CFZ	C2'-C3'-C4'	2.67	105.85	102.40
1	A	55	UFT	C2'-C1'-N1	-2.67	110.12	114.20
1	A	10	CFZ	C3'-C2'-C1'	2.67	106.36	103.13
1	A	8	UFT	C3'-C2'-C1'	2.67	106.36	103.13
1	A	109	CFZ	C3'-C2'-C1'	2.66	106.36	103.13
1	A	429	CFZ	C2'-C1'-N1	-2.66	110.13	114.20
1	A	144	CFZ	C2'-C1'-N1	-2.66	110.13	114.20
1	A	454	CFZ	C3'-C2'-C1'	2.66	106.35	103.13
1	A	28	UFT	C2'-C3'-C4'	2.66	105.84	102.40
1	A	243	UFT	C2'-C3'-C4'	2.66	105.84	102.40
1	A	41	CFZ	C2'-C3'-C4'	2.66	105.83	102.40
1	A	258	UFT	O4-C4-C5	-2.64	120.51	125.16
1	A	450	UFT	C3'-C2'-C1'	2.64	106.33	103.13
1	A	124	CFZ	C2'-C1'-N1	-2.64	110.16	114.20
1	A	188	UFT	C2'-C1'-N1	-2.64	110.16	114.20
1	A	448	CFZ	C3'-C2'-C1'	2.64	106.33	103.13
1	A	518	CFZ	C3'-C2'-C1'	2.64	106.33	103.13
1	A	55	UFT	C2'-C3'-C4'	2.64	105.81	102.40
1	A	538	UFT	C2'-C3'-C4'	2.64	105.81	102.40
1	A	63	UFT	C3'-C2'-C1'	2.63	106.32	103.13
1	A	229	CFZ	C2'-C1'-N1	-2.63	110.17	114.20
1	A	479	UFT	C2'-C1'-N1	-2.63	110.17	114.20
1	A	183	CFZ	C2'-C1'-N1	-2.63	110.18	114.20
1	A	429	CFZ	C2'-C3'-C4'	2.63	105.80	102.40
1	A	492	UFT	C3'-C2'-C1'	2.63	106.32	103.13
1	A	85	UFT	C3'-C2'-C1'	2.63	106.31	103.13
1	A	147	UFT	C2'-C3'-C4'	2.63	105.80	102.40
1	A	303	CFZ	C3'-C2'-C1'	2.62	106.31	103.13
1	A	451	UFT	C3'-C2'-C1'	2.62	106.31	103.13
1	A	282	UFT	C2'-C1'-N1	-2.62	110.19	114.20
1	A	36	CFZ	C3'-C2'-C1'	2.62	106.30	103.13
1	A	423	UFT	O4-C4-C5	-2.62	120.56	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	183	CFZ	C3'-C2'-C1'	2.62	106.30	103.13
1	A	66	UFT	C2'-C1'-N1	-2.61	110.20	114.20
1	A	104	CFZ	C2'-C3'-C4'	2.61	105.78	102.40
1	A	175	UFT	O4-C4-C5	-2.61	120.56	125.16
1	A	36	CFZ	C4'-O4'-C1'	-2.61	103.70	109.47
1	A	147	UFT	C2'-C1'-N1	-2.61	110.21	114.20
1	A	344	CFZ	C2'-C1'-N1	-2.61	110.22	114.20
1	A	262	CFZ	C2'-C1'-N1	-2.60	110.22	114.20
1	A	364	CFZ	C2'-C3'-C4'	2.60	105.77	102.40
1	A	522	CFZ	C3'-C2'-C1'	2.60	106.28	103.13
1	A	341	CFZ	C2'-C3'-C4'	2.60	105.76	102.40
1	A	96	UFT	C2'-C3'-C4'	2.59	105.75	102.40
1	A	60	UFT	O4-C4-C5	-2.59	120.61	125.16
1	A	110	CFZ	C3'-C2'-C1'	2.58	106.25	103.13
1	A	71	UFT	O4-C4-C5	-2.58	120.63	125.16
1	A	307	CFZ	C2'-C3'-C4'	2.58	105.73	102.40
1	A	254	UFT	C3'-C2'-C1'	2.57	106.25	103.13
1	A	7	UFT	O4-C4-C5	-2.57	120.63	125.16
1	A	388	UFT	C3'-C2'-C1'	2.57	106.24	103.13
1	A	258	UFT	C2'-C3'-C4'	2.57	105.72	102.40
1	A	391	UFT	C1'-N1-C2	2.57	122.22	117.57
1	A	495	CFZ	C2'-C1'-N1	-2.56	110.28	114.20
1	A	151	UFT	C2'-C1'-N1	-2.56	110.29	114.20
1	A	346	CFZ	C3'-C2'-C1'	2.56	106.23	103.13
1	A	35	UFT	C3'-C2'-C1'	2.56	106.23	103.13
1	A	325	CFZ	C2'-C1'-N1	-2.56	110.29	114.20
1	A	209	CFZ	C2'-C3'-C4'	2.55	105.70	102.40
1	A	518	CFZ	C2'-C1'-N1	-2.55	110.31	114.20
1	A	506	CFZ	C3'-C2'-C1'	2.55	106.21	103.13
1	A	213	CFZ	C2'-C1'-N1	-2.54	110.31	114.20
1	A	411	UFT	C3'-C2'-C1'	2.54	106.21	103.13
1	A	254	UFT	O4-C4-C5	-2.54	120.69	125.16
1	A	518	CFZ	C2'-C3'-C4'	2.54	105.68	102.40
1	A	246	CFZ	C4'-O4'-C1'	-2.54	103.88	109.47
1	A	154	CFZ	C2'-C1'-N1	-2.53	110.33	114.20
1	A	342	CFZ	C2'-C1'-N1	-2.53	110.33	114.20
1	A	71	UFT	C3'-C2'-C1'	2.53	106.19	103.13
1	A	341	CFZ	C4'-O4'-C1'	-2.53	103.90	109.47
1	A	380	CFZ	C2'-C1'-N1	-2.52	110.35	114.20
1	A	374	CFZ	C3'-C2'-C1'	2.52	106.18	103.13
1	A	29	CFZ	C2'-C1'-N1	-2.52	110.35	114.20
1	A	88	UFT	O4-C4-C5	-2.51	120.74	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	432	UFT	C2'-C3'-C4'	2.51	105.64	102.40
1	A	543	UFT	O4-C4-C5	-2.50	120.76	125.16
1	A	365	UFT	O4-C4-C5	-2.50	120.76	125.16
1	A	74	UFT	O4-C4-C5	-2.50	120.77	125.16
1	A	508	CFZ	C3'-C2'-C1'	2.49	106.15	103.13
1	A	502	CFZ	C2'-C1'-N1	-2.49	110.39	114.20
1	A	454	CFZ	C2'-C1'-N1	-2.49	110.40	114.20
1	A	310	CFZ	C3'-C2'-C1'	2.48	106.14	103.13
1	A	259	CFZ	C2'-C1'-N1	-2.48	110.42	114.20
1	A	133	UFT	C2'-C1'-N1	-2.47	110.42	114.20
1	A	124	CFZ	C2'-C3'-C4'	2.47	105.60	102.40
1	A	280	CFZ	C2'-C3'-C4'	2.47	105.59	102.40
1	A	188	UFT	C3'-C2'-C1'	2.47	106.12	103.13
1	A	134	UFT	C3'-C2'-C1'	2.46	106.11	103.13
1	A	331	UFT	C3'-C2'-C1'	2.46	106.10	103.13
1	A	251	CFZ	C2'-C3'-C4'	2.45	105.57	102.40
1	A	134	UFT	C2'-C1'-N1	-2.45	110.45	114.20
1	A	368	CFZ	C2'-C3'-C4'	2.45	105.57	102.40
1	A	282	UFT	O4-C4-C5	-2.45	120.85	125.16
1	A	399	UFT	C3'-C2'-C1'	2.45	106.09	103.13
1	A	342	CFZ	C3'-C2'-C1'	2.45	106.09	103.13
1	A	27	UFT	C2'-C1'-N1	-2.44	110.47	114.20
1	A	413	CFZ	C3'-C2'-C1'	2.44	106.08	103.13
1	A	450	UFT	C2'-C1'-N1	-2.44	110.47	114.20
1	A	339	UFT	O4-C4-C5	-2.44	120.88	125.16
1	A	291	UFT	O4-C4-C5	-2.43	120.88	125.16
1	A	468	CFZ	C3'-C2'-C1'	2.43	106.07	103.13
1	A	252	CFZ	C2'-C1'-N1	-2.43	110.48	114.20
1	A	130	UFT	C3'-C2'-C1'	2.43	106.07	103.13
1	A	114	UFT	C1'-N1-C2	2.42	121.96	117.57
1	A	423	UFT	C3'-C2'-C1'	2.42	106.06	103.13
1	A	13	UFT	C3'-C2'-C1'	2.42	106.06	103.13
1	A	276	UFT	C2'-C1'-N1	-2.42	110.50	114.20
1	A	438	UFT	C2'-C3'-C4'	2.42	105.53	102.40
1	A	76	CFZ	C3'-C2'-C1'	2.42	106.06	103.13
1	A	303	CFZ	C2'-C1'-N1	-2.42	110.50	114.20
1	A	366	UFT	O4-C4-C5	-2.41	120.93	125.16
1	A	333	CFZ	C2'-C1'-N1	-2.40	110.53	114.20
1	A	538	UFT	C2'-C1'-N1	-2.40	110.53	114.20
1	A	385	UFT	C1'-N1-C2	2.40	121.92	117.57
1	A	399	UFT	C1'-N1-C2	2.40	121.91	117.57
1	A	80	UFT	O4-C4-C5	-2.40	120.94	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	154	CFZ	C2'-C3'-C4'	2.40	105.50	102.40
1	A	527	CFZ	C3'-C2'-C1'	2.39	106.03	103.13
1	A	144	CFZ	C3'-C2'-C1'	2.39	106.02	103.13
1	A	212	UFT	C2'-C3'-C4'	2.39	105.49	102.40
1	A	76	CFZ	C2'-C1'-N1	-2.38	110.56	114.20
1	A	481	CFZ	C3'-C2'-C1'	2.37	106.00	103.13
1	A	278	CFZ	C3'-C2'-C1'	2.37	106.00	103.13
1	A	75	CFZ	C2'-C1'-N1	-2.36	110.59	114.20
1	A	461	UFT	C2'-C1'-N1	-2.36	110.59	114.20
1	A	339	UFT	C2'-C1'-N1	-2.36	110.60	114.20
1	A	389	UFT	C3'-C2'-C1'	2.35	105.98	103.13
1	A	165	UFT	C3'-C2'-C1'	2.35	105.98	103.13
1	A	350	UFT	C3'-C2'-C1'	2.35	105.97	103.13
1	A	101	CFZ	C2'-C1'-N1	-2.34	110.63	114.20
1	A	156	UFT	C2'-C1'-N1	-2.34	110.63	114.20
1	A	310	CFZ	C2'-C3'-C4'	2.33	105.42	102.40
1	A	492	UFT	O2-C2-N1	-2.33	119.68	122.79
1	A	175	UFT	C3'-C2'-C1'	2.33	105.95	103.13
1	A	541	UFT	O2-C2-N1	-2.33	119.69	122.79
1	A	433	CFZ	C4'-O4'-C1'	-2.33	104.34	109.47
1	A	388	UFT	C2'-C1'-N1	-2.33	110.64	114.20
1	A	508	CFZ	C4'-O4'-C1'	-2.33	104.34	109.47
1	A	153	UFT	C2'-C1'-N1	-2.32	110.65	114.20
1	A	228	UFT	O4-C4-C5	-2.32	121.08	125.16
1	A	108	CFZ	C3'-C2'-C1'	2.32	105.94	103.13
1	A	507	CFZ	C3'-C2'-C1'	2.32	105.94	103.13
1	A	51	CFZ	C2'-C3'-C4'	2.31	105.38	102.40
1	A	488	UFT	O2-C2-N1	-2.30	119.72	122.79
1	A	439	UFT	C2'-C1'-N1	-2.30	110.69	114.20
1	A	545	UFT	O2-C2-N1	-2.30	119.73	122.79
1	A	506	CFZ	C2'-C3'-C4'	2.29	105.37	102.40
1	A	140	UFT	C3'-C2'-C1'	2.29	105.91	103.13
1	A	538	UFT	O4-C4-C5	-2.29	121.13	125.16
1	A	445	CFZ	O4'-C1'-C2'	2.29	108.15	105.79
1	A	113	CFZ	C4'-O4'-C1'	-2.28	104.44	109.47
1	A	132	CFZ	C2'-C1'-N1	-2.28	110.72	114.20
1	A	156	UFT	C2'-C3'-C4'	2.28	105.35	102.40
1	A	215	UFT	O2-C2-N1	-2.28	119.76	122.79
1	A	283	CFZ	C2'-C1'-N1	-2.28	110.72	114.20
1	A	174	CFZ	C3'-C2'-C1'	2.28	105.89	103.13
1	A	255	CFZ	C4'-O4'-C1'	-2.27	104.46	109.47
1	A	221	UFT	O2-C2-N1	-2.27	119.77	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	543	UFT	C2'-C1'-N1	-2.27	110.74	114.20
1	A	119	UFT	C3'-C2'-C1'	2.27	105.87	103.13
1	A	35	UFT	C2'-C3'-C4'	2.26	105.33	102.40
1	A	303	CFZ	C2'-C3'-C4'	2.26	105.32	102.40
1	A	331	UFT	O4-C4-C5	-2.26	121.19	125.16
1	A	147	UFT	O2-C2-N1	-2.25	119.80	122.79
1	A	88	UFT	C2'-C1'-N1	-2.25	110.77	114.20
1	A	344	CFZ	C2'-C3'-C4'	2.25	105.31	102.40
1	A	468	CFZ	C4'-O4'-C1'	-2.25	104.52	109.47
1	A	153	UFT	O2-C2-N1	-2.24	119.80	122.79
1	A	101	CFZ	C2'-C3'-C4'	2.24	105.30	102.40
1	A	72	CFZ	C3'-C2'-C1'	2.24	105.84	103.13
1	A	465	UFT	C2'-C1'-N1	-2.23	110.79	114.20
1	A	15	UFT	O2-C2-N1	-2.23	119.82	122.79
1	A	451	UFT	O4-C4-C5	-2.23	121.24	125.16
1	A	171	UFT	C2'-C1'-N1	-2.23	110.80	114.20
1	A	398	UFT	C2'-C1'-N1	-2.23	110.80	114.20
1	A	250	CFZ	C2'-C3'-C4'	2.23	105.28	102.40
1	A	237	UFT	C3'-C2'-C1'	2.22	105.82	103.13
1	A	6	CFZ	C4'-O4'-C1'	-2.22	104.57	109.47
1	A	276	UFT	O4-C4-C5	-2.22	121.25	125.16
1	A	51	CFZ	C2'-C1'-N1	-2.22	110.81	114.20
1	A	535	UFT	C3'-C2'-C1'	2.22	105.82	103.13
1	A	340	UFT	C4'-O4'-C1'	-2.22	104.58	109.47
1	A	386	CFZ	C2'-C3'-C4'	2.22	105.27	102.40
1	A	529	UFT	C2'-C1'-N1	-2.21	110.83	114.20
1	A	421	UFT	O2-C2-N1	-2.20	119.86	122.79
1	A	419	CFZ	C2'-C1'-N1	-2.20	110.83	114.20
1	A	509	UFT	O2-C2-N1	-2.20	119.86	122.79
1	A	78	CFZ	C3'-C2'-C1'	2.20	105.79	103.13
1	A	399	UFT	C2'-C1'-N1	-2.19	110.85	114.20
1	A	265	UFT	C3'-C2'-C1'	2.19	105.79	103.13
1	A	348	UFT	C2'-C3'-C4'	2.19	105.24	102.40
1	A	499	UFT	O2-C2-N1	-2.19	119.87	122.79
1	A	286	UFT	O2-C2-N1	-2.19	119.87	122.79
1	A	156	UFT	O2-C2-N1	-2.19	119.87	122.79
1	A	225	CFZ	C4'-O4'-C1'	-2.19	104.64	109.47
1	A	105	UFT	O2-C2-N1	-2.19	119.88	122.79
1	A	96	UFT	C2'-C1'-N1	-2.19	110.86	114.20
1	A	380	CFZ	C3'-C2'-C1'	2.18	105.78	103.13
1	A	540	UFT	O2-C2-N1	-2.18	119.88	122.79
1	A	523	UFT	C3'-C2'-C1'	2.18	105.77	103.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	188	UFT	O2-C2-N1	-2.18	119.89	122.79
1	A	264	CFZ	C2'-C1'-N1	-2.18	110.87	114.20
1	A	435	CFZ	C3'-C2'-C1'	2.18	105.77	103.13
1	A	350	UFT	O2-C2-N1	-2.17	119.90	122.79
1	A	423	UFT	C2'-C1'-N1	-2.17	110.89	114.20
1	A	171	UFT	O2-C2-N1	-2.17	119.90	122.79
1	A	337	CFZ	C3'-C2'-C1'	2.17	105.75	103.13
1	A	389	UFT	O2-C2-N1	-2.17	119.91	122.79
1	A	499	UFT	C4'-O4'-C1'	-2.16	104.70	109.47
1	A	504	UFT	O2-C2-N1	-2.16	119.91	122.79
1	A	411	UFT	O2-C2-N1	-2.16	119.91	122.79
1	A	388	UFT	O2-C2-N1	-2.16	119.92	122.79
1	A	502	CFZ	C2'-C3'-C4'	2.16	105.19	102.40
1	A	480	UFT	C2'-C1'-N1	-2.16	110.90	114.20
1	A	506	CFZ	C2'-C1'-N1	-2.16	110.90	114.20
1	A	39	UFT	C1'-N1-C2	2.16	121.47	117.57
1	A	501	CFZ	C3'-C2'-C1'	2.15	105.74	103.13
1	A	448	CFZ	C2'-C3'-C4'	2.15	105.18	102.40
1	A	530	CFZ	C4'-O4'-C1'	-2.15	104.73	109.47
1	A	132	CFZ	C2'-C3'-C4'	2.15	105.18	102.40
1	A	177	CFZ	C2'-C3'-C4'	2.15	105.18	102.40
1	A	151	UFT	O2-C2-N1	-2.14	119.94	122.79
1	A	67	CFZ	C2'-C1'-N1	-2.14	110.92	114.20
1	A	258	UFT	C2'-C1'-N1	-2.14	110.92	114.20
1	A	512	CFZ	C2'-C1'-N1	-2.14	110.92	114.20
1	A	265	UFT	O2-C2-N1	-2.14	119.94	122.79
1	A	51	CFZ	O2-C2-N3	-2.14	118.85	122.33
1	A	496	CFZ	C2'-C3'-C4'	2.14	105.17	102.40
1	A	154	CFZ	C4'-O4'-C1'	-2.14	104.75	109.47
1	A	84	CFZ	C3'-C2'-C1'	2.14	105.72	103.13
1	A	272	UFT	C3'-C2'-C1'	2.13	105.71	103.13
1	A	28	UFT	C2'-C1'-N1	-2.13	110.94	114.20
1	A	285	UFT	O2-C2-N1	-2.13	119.95	122.79
1	A	48	UFT	C2'-C1'-N1	-2.13	110.94	114.20
1	A	75	CFZ	C2'-C3'-C4'	2.13	105.15	102.40
1	A	297	CFZ	O4'-C1'-C2'	2.13	107.98	105.79
1	A	243	UFT	O2-C2-N1	-2.13	119.96	122.79
1	A	349	CFZ	C4'-O4'-C1'	-2.12	104.79	109.47
1	A	437	CFZ	O2-C2-N3	-2.12	118.89	122.33
1	A	314	CFZ	C2'-C1'-N1	-2.12	110.96	114.20
1	A	160	CFZ	C4'-O4'-C1'	-2.12	104.80	109.47
1	A	491	UFT	O2-C2-N1	-2.12	119.97	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	65	UFT	O2-C2-N1	-2.12	119.97	122.79
1	A	318	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	324	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	111	CFZ	C3'-C2'-C1'	2.11	105.69	103.13
1	A	436	CFZ	C4'-O4'-C1'	-2.11	104.81	109.47
1	A	35	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	64	CFZ	C3'-C2'-C1'	2.11	105.69	103.13
1	A	34	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	48	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	95	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	480	UFT	O2-C2-N1	-2.11	119.98	122.79
1	A	125	CFZ	C2'-C3'-C4'	2.11	105.13	102.40
1	A	166	UFT	O2-C2-N1	-2.11	119.99	122.79
1	A	134	UFT	O2-C2-N1	-2.10	119.99	122.79
1	A	475	CFZ	C3'-C2'-C1'	2.10	105.67	103.13
1	A	49	CFZ	O4'-C1'-C2'	2.10	107.95	105.79
1	A	191	UFT	C1'-N1-C2	2.10	121.37	117.57
1	A	346	CFZ	C2'-C1'-N1	-2.10	111.00	114.20
1	A	549	UFT	C3'-C2'-C1'	2.10	105.67	103.13
1	A	337	CFZ	C4'-O4'-C1'	-2.09	104.85	109.47
1	A	365	UFT	C3'-C2'-C1'	2.09	105.67	103.13
1	A	523	UFT	O2-C2-N1	-2.09	120.00	122.79
1	A	549	UFT	O2-C2-N1	-2.09	120.01	122.79
1	A	525	CFZ	C4'-O4'-C1'	-2.09	104.86	109.47
1	A	415	CFZ	C3'-C2'-C1'	2.09	105.66	103.13
1	A	44	UFT	O2-C2-N1	-2.09	120.01	122.79
1	A	342	CFZ	C4'-O4'-C1'	-2.09	104.87	109.47
1	A	14	UFT	O2-C2-N1	-2.09	120.01	122.79
1	A	163	CFZ	C4'-O4'-C1'	-2.08	104.88	109.47
1	A	174	CFZ	C4'-O4'-C1'	-2.08	104.88	109.47
1	A	283	CFZ	C4'-O4'-C1'	-2.08	104.88	109.47
1	A	388	UFT	C2'-C3'-C4'	2.08	105.09	102.40
1	A	479	UFT	O2-C2-N1	-2.08	120.02	122.79
1	A	287	CFZ	C4'-O4'-C1'	-2.08	104.88	109.47
1	A	349	CFZ	C2'-C1'-N1	-2.08	111.02	114.20
1	A	498	UFT	O2-C2-N1	-2.08	120.03	122.79
1	A	476	CFZ	C4'-O4'-C1'	-2.07	104.90	109.47
1	A	41	CFZ	C4'-O4'-C1'	-2.07	104.90	109.47
1	A	89	CFZ	C2'-C3'-C4'	2.07	105.08	102.40
1	A	98	CFZ	C2'-C1'-N1	-2.07	111.04	114.20
1	A	439	UFT	O2-C2-N1	-2.07	120.04	122.79
1	A	413	CFZ	C4'-O4'-C1'	-2.07	104.91	109.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	470	UFT	O2-C2-N1	-2.07	120.04	122.79
1	A	529	UFT	O2-C2-N1	-2.07	120.04	122.79
1	A	470	UFT	C3'-C2'-C1'	2.07	105.63	103.13
1	A	365	UFT	O2-C2-N1	-2.07	120.04	122.79
1	A	55	UFT	O2-C2-N1	-2.06	120.05	122.79
1	A	177	CFZ	O2-C2-N3	-2.06	118.98	122.33
1	A	35	UFT	C2'-C1'-N1	-2.06	111.05	114.20
1	A	26	UFT	O2-C2-N1	-2.06	120.05	122.79
1	A	540	UFT	C2'-C3'-C4'	2.06	105.06	102.40
1	A	364	CFZ	C2'-C1'-N1	-2.06	111.06	114.20
1	A	501	CFZ	C2'-C3'-C4'	2.06	105.06	102.40
1	A	165	UFT	O2-C2-N1	-2.06	120.05	122.79
1	A	183	CFZ	C2'-C3'-C4'	2.06	105.06	102.40
1	A	6	CFZ	C3'-C2'-C1'	2.06	105.62	103.13
1	A	213	CFZ	C4'-O4'-C1'	-2.05	104.95	109.47
1	A	246	CFZ	O4'-C1'-N1	2.05	113.05	108.36
1	A	151	UFT	C3'-C2'-C1'	2.05	105.61	103.13
1	A	63	UFT	C2'-C3'-C4'	2.05	105.05	102.40
1	A	212	UFT	O2-C2-N1	-2.04	120.07	122.79
1	A	93	CFZ	C3'-C2'-C1'	2.04	105.60	103.13
1	A	319	UFT	C1'-N1-C2	2.04	121.27	117.57
1	A	430	CFZ	C6-C5-C4	2.04	120.80	117.50
1	A	348	UFT	C2'-C1'-N1	-2.04	111.08	114.20
1	A	412	UFT	C2'-C1'-N1	-2.04	111.08	114.20
1	A	66	UFT	O2-C2-N1	-2.04	120.08	122.79
1	A	525	CFZ	C3'-C2'-C1'	2.04	105.60	103.13
1	A	496	CFZ	C4'-O4'-C1'	-2.04	104.98	109.47
1	A	110	CFZ	C4'-O4'-C1'	-2.04	104.98	109.47
1	A	216	CFZ	C3'-C2'-C1'	2.03	105.59	103.13
1	A	243	UFT	C2'-C1'-N1	-2.03	111.09	114.20
1	A	412	UFT	C2'-C3'-C4'	2.03	105.03	102.40
1	A	475	CFZ	C4'-O4'-C1'	-2.03	104.99	109.47
1	A	272	UFT	O2-C2-N1	-2.03	120.09	122.79
1	A	78	CFZ	O4'-C1'-N1	2.03	113.00	108.36
1	A	8	UFT	O2-C2-N1	-2.03	120.09	122.79
1	A	461	UFT	O2-C2-N1	-2.03	120.09	122.79
1	A	491	UFT	C4'-O4'-C1'	-2.03	105.00	109.47
1	A	285	UFT	C3'-C2'-C1'	2.02	105.58	103.13
1	A	93	CFZ	O2-C2-N3	-2.02	119.04	122.33
1	A	358	UFT	O2-C2-N1	-2.02	120.10	122.79
1	A	230	CFZ	C2'-C3'-C4'	2.02	105.02	102.40
1	A	163	CFZ	C2'-C1'-N1	-2.02	111.11	114.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	530	CFZ	O2-C2-N3	-2.02	119.05	122.33
1	A	111	CFZ	C4'-O4'-C1'	-2.02	105.02	109.47
1	A	12	CFZ	C2'-C3'-C4'	2.02	105.01	102.40
1	A	421	UFT	C3'-C2'-C1'	2.01	105.57	103.13
1	A	289	CFZ	C4'-O4'-C1'	-2.01	105.03	109.47
1	A	133	UFT	O2-C2-N1	-2.01	120.11	122.79
1	A	259	CFZ	C4'-O4'-C1'	-2.01	105.04	109.47
1	A	507	CFZ	C4'-O4'-C1'	-2.01	105.04	109.47
1	A	14	UFT	C3'-C2'-C1'	2.01	105.56	103.13
1	A	188	UFT	C2'-C3'-C4'	2.01	105.00	102.40
1	A	387	CFZ	C6-C5-C4	2.01	120.74	117.50
1	A	258	UFT	O2-C2-N1	-2.01	120.12	122.79
1	A	432	UFT	C2'-C1'-N1	-2.01	111.14	114.20
1	A	503	CFZ	C4'-O4'-C1'	-2.00	105.05	109.47
1	A	539	CFZ	C6-C5-C4	2.00	120.73	117.50
1	A	210	CFZ	C4'-O4'-C1'	-2.00	105.06	109.47

There are no chirality outliers.

All (147) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	8	UFT	O4'-C4'-C5'-O5'
1	A	27	UFT	O4'-C4'-C5'-O5'
1	A	45	UFT	O4'-C4'-C5'-O5'
1	A	45	UFT	C3'-C4'-C5'-O5'
1	A	48	UFT	O4'-C4'-C5'-O5'
1	A	48	UFT	C3'-C4'-C5'-O5'
1	A	65	UFT	O4'-C4'-C5'-O5'
1	A	87	UFT	C4'-C5'-O5'-P
1	A	87	UFT	O4'-C4'-C5'-O5'
1	A	87	UFT	C3'-C4'-C5'-O5'
1	A	88	UFT	O4'-C4'-C5'-O5'
1	A	88	UFT	C3'-C4'-C5'-O5'
1	A	97	UFT	C3'-C4'-C5'-O5'
1	A	98	CFZ	C3'-C4'-C5'-O5'
1	A	115	UFT	O4'-C4'-C5'-O5'
1	A	116	CFZ	O4'-C4'-C5'-O5'
1	A	191	UFT	C3'-C4'-C5'-O5'
1	A	194	UFT	O4'-C4'-C5'-O5'
1	A	194	UFT	C3'-C4'-C5'-O5'
1	A	258	UFT	C3'-C4'-C5'-O5'
1	A	298	CFZ	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
1	A	303	CFZ	C3'-C4'-C5'-O5'
1	A	303	CFZ	O4'-C4'-C5'-O5'
1	A	385	UFT	O4'-C4'-C5'-O5'
1	A	385	UFT	C3'-C4'-C5'-O5'
1	A	423	UFT	O4'-C4'-C5'-O5'
1	A	423	UFT	C3'-C4'-C5'-O5'
1	A	432	UFT	O4'-C4'-C5'-O5'
1	A	437	CFZ	O4'-C4'-C5'-O5'
1	A	439	UFT	O4'-C4'-C5'-O5'
1	A	439	UFT	C3'-C4'-C5'-O5'
1	A	462	CFZ	C3'-C4'-C5'-O5'
1	A	462	CFZ	O4'-C4'-C5'-O5'
1	A	481	CFZ	C3'-C4'-C5'-O5'
1	A	481	CFZ	O4'-C4'-C5'-O5'
1	A	500	CFZ	C3'-C4'-C5'-O5'
1	A	500	CFZ	O4'-C4'-C5'-O5'
1	A	501	CFZ	O4'-C4'-C5'-O5'
1	A	510	UFT	O4'-C4'-C5'-O5'
1	A	528	UFT	O4'-C4'-C5'-O5'
1	A	528	UFT	C3'-C4'-C5'-O5'
1	A	530	CFZ	O4'-C1'-N1-C2
1	A	530	CFZ	C3'-C4'-C5'-O5'
1	A	530	CFZ	O4'-C4'-C5'-O5'
1	A	114	UFT	O4'-C1'-N1-C2
1	A	13	UFT	O4'-C4'-C5'-O5'
1	A	27	UFT	C3'-C4'-C5'-O5'
1	A	29	CFZ	C3'-C4'-C5'-O5'
1	A	29	CFZ	O4'-C4'-C5'-O5'
1	A	39	UFT	C3'-C4'-C5'-O5'
1	A	97	UFT	O4'-C4'-C5'-O5'
1	A	98	CFZ	O4'-C4'-C5'-O5'
1	A	115	UFT	C3'-C4'-C5'-O5'
1	A	116	CFZ	C3'-C4'-C5'-O5'
1	A	156	UFT	O4'-C4'-C5'-O5'
1	A	191	UFT	O4'-C4'-C5'-O5'
1	A	247	UFT	O4'-C4'-C5'-O5'
1	A	265	UFT	O4'-C4'-C5'-O5'
1	A	298	CFZ	O4'-C4'-C5'-O5'
1	A	331	UFT	O4'-C4'-C5'-O5'
1	A	399	UFT	C3'-C4'-C5'-O5'
1	A	432	UFT	C3'-C4'-C5'-O5'
1	A	437	CFZ	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
1	A	440	CFZ	O4'-C4'-C5'-O5'
1	A	460	UFT	O4'-C4'-C5'-O5'
1	A	460	UFT	C3'-C4'-C5'-O5'
1	A	501	CFZ	C3'-C4'-C5'-O5'
1	A	509	UFT	O4'-C4'-C5'-O5'
1	A	510	UFT	C3'-C4'-C5'-O5'
1	A	530	CFZ	O4'-C1'-N1-C6
1	A	8	UFT	C3'-C4'-C5'-O5'
1	A	39	UFT	O4'-C4'-C5'-O5'
1	A	80	UFT	O4'-C4'-C5'-O5'
1	A	156	UFT	C3'-C4'-C5'-O5'
1	A	170	UFT	O4'-C4'-C5'-O5'
1	A	247	UFT	C3'-C4'-C5'-O5'
1	A	258	UFT	O4'-C4'-C5'-O5'
1	A	265	UFT	C3'-C4'-C5'-O5'
1	A	291	UFT	O4'-C4'-C5'-O5'
1	A	331	UFT	C3'-C4'-C5'-O5'
1	A	399	UFT	O4'-C4'-C5'-O5'
1	A	440	CFZ	C3'-C4'-C5'-O5'
1	A	13	UFT	C3'-C4'-C5'-O5'
1	A	170	UFT	C3'-C4'-C5'-O5'
1	A	114	UFT	O4'-C1'-N1-C6
1	A	391	UFT	C3'-C4'-C5'-O5'
1	A	509	UFT	C3'-C4'-C5'-O5'
1	A	459	UFT	C4'-C5'-O5'-P
1	A	95	UFT	O4'-C4'-C5'-O5'
1	A	512	CFZ	O4'-C4'-C5'-O5'
1	A	319	UFT	C4'-C5'-O5'-P
1	A	391	UFT	C4'-C5'-O5'-P
1	A	391	UFT	O4'-C4'-C5'-O5'
1	A	225	CFZ	O4'-C4'-C5'-O5'
1	A	276	UFT	O4'-C4'-C5'-O5'
1	A	429	CFZ	O4'-C4'-C5'-O5'
1	A	483	CFZ	O4'-C4'-C5'-O5'
1	A	26	UFT	C4'-C5'-O5'-P
1	A	399	UFT	C4'-C5'-O5'-P
1	A	530	CFZ	C4'-C5'-O5'-P
1	A	206	UFT	O4'-C4'-C5'-O5'
1	A	438	UFT	C3'-C4'-C5'-O5'
1	A	191	UFT	C4'-C5'-O5'-P
1	A	95	UFT	C3'-C4'-C5'-O5'
1	A	480	UFT	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
1	A	512	CFZ	C3'-C4'-C5'-O5'
1	A	34	UFT	C2'-C1'-N1-C6
1	A	34	UFT	C2'-C1'-N1-C2
1	A	35	UFT	C2'-C1'-N1-C2
1	A	480	UFT	C2'-C1'-N1-C2
1	A	302	CFZ	C4'-C5'-O5'-P
1	A	15	UFT	O4'-C4'-C5'-O5'
1	A	47	UFT	O4'-C4'-C5'-O5'
1	A	340	UFT	O4'-C4'-C5'-O5'
1	A	404	CFZ	O4'-C4'-C5'-O5'
1	A	406	UFT	O4'-C4'-C5'-O5'
1	A	419	CFZ	C3'-C4'-C5'-O5'
1	A	511	UFT	O4'-C4'-C5'-O5'
1	A	527	CFZ	O4'-C4'-C5'-O5'
1	A	36	CFZ	C4'-C5'-O5'-P
1	A	177	CFZ	C4'-C5'-O5'-P
1	A	411	UFT	O4'-C4'-C5'-O5'
1	A	291	UFT	C3'-C4'-C5'-O5'
1	A	319	UFT	C3'-C4'-C5'-O5'
1	A	80	UFT	C3'-C4'-C5'-O5'
1	A	93	CFZ	O4'-C4'-C5'-O5'
1	A	175	UFT	O4'-C4'-C5'-O5'
1	A	178	UFT	O4'-C4'-C5'-O5'
1	A	357	UFT	C3'-C4'-C5'-O5'
1	A	438	UFT	O4'-C4'-C5'-O5'
1	A	480	UFT	O4'-C4'-C5'-O5'
1	A	543	UFT	O4'-C4'-C5'-O5'
1	A	47	UFT	C3'-C4'-C5'-O5'
1	A	387	CFZ	O4'-C4'-C5'-O5'
1	A	310	CFZ	O4'-C4'-C5'-O5'
1	A	314	CFZ	C3'-C4'-C5'-O5'
1	A	472	CFZ	C3'-C4'-C5'-O5'
1	A	43	UFT	O4'-C4'-C5'-O5'
1	A	177	CFZ	C3'-C4'-C5'-O5'
1	A	225	CFZ	C3'-C4'-C5'-O5'
1	A	429	CFZ	C3'-C4'-C5'-O5'
1	A	479	UFT	C3'-C4'-C5'-O5'
1	A	483	CFZ	C3'-C4'-C5'-O5'
1	A	276	UFT	C3'-C4'-C5'-O5'
1	A	340	UFT	C3'-C4'-C5'-O5'
1	A	404	CFZ	C3'-C4'-C5'-O5'
1	A	511	UFT	C3'-C4'-C5'-O5'

There are no ring outliers.

182 monomers are involved in 230 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	32	CFZ	3	0
1	A	147	UFT	1	0
1	A	178	UFT	1	0
1	A	78	CFZ	2	0
1	A	11	CFZ	2	0
1	A	162	CFZ	3	0
1	A	89	CFZ	1	0
1	A	279	CFZ	2	0
1	A	348	UFT	2	0
1	A	483	CFZ	2	0
1	A	492	UFT	1	0
1	A	125	CFZ	3	0
1	A	495	CFZ	2	0
1	A	429	CFZ	1	0
1	A	301	CFZ	1	0
1	A	506	CFZ	2	0
1	A	400	UFT	3	0
1	A	340	UFT	1	0
1	A	85	UFT	1	0
1	A	93	CFZ	1	0
1	A	84	CFZ	2	0
1	A	119	UFT	1	0
1	A	366	UFT	2	0
1	A	160	CFZ	1	0
1	A	234	UFT	1	0
1	A	364	CFZ	1	0
1	A	341	CFZ	1	0
1	A	415	CFZ	3	0
1	A	470	UFT	1	0
1	A	535	UFT	1	0
1	A	462	CFZ	2	0
1	A	490	CFZ	1	0
1	A	391	UFT	3	0
1	A	184	UFT	2	0
1	A	310	CFZ	1	0
1	A	272	UFT	2	0
1	A	278	CFZ	2	0
1	A	502	CFZ	3	0
1	A	291	UFT	1	0
1	A	146	CFZ	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	259	CFZ	1	0
1	A	76	CFZ	3	0
1	A	320	UFT	3	0
1	A	454	CFZ	3	0
1	A	498	UFT	1	0
1	A	344	CFZ	4	0
1	A	467	CFZ	1	0
1	A	451	UFT	2	0
1	A	209	CFZ	1	0
1	A	281	CFZ	2	0
1	A	109	CFZ	1	0
1	A	166	UFT	1	0
1	A	165	UFT	2	0
1	A	140	UFT	1	0
1	A	65	UFT	1	0
1	A	212	UFT	3	0
1	A	243	UFT	1	0
1	A	412	UFT	2	0
1	A	74	UFT	2	0
1	A	411	UFT	1	0
1	A	477	UFT	2	0
1	A	500	CFZ	1	0
1	A	216	CFZ	1	0
1	A	252	CFZ	1	0
1	A	465	UFT	1	0
1	A	354	CFZ	1	0
1	A	501	CFZ	2	0
1	A	229	CFZ	1	0
1	A	413	CFZ	3	0
1	A	10	CFZ	1	0
1	A	75	CFZ	2	0
1	A	472	CFZ	1	0
1	A	457	CFZ	1	0
1	A	101	CFZ	2	0
1	A	20	CFZ	1	0
1	A	55	UFT	2	0
1	A	380	CFZ	3	0
1	A	386	CFZ	2	0
1	A	491	UFT	2	0
1	A	167	UFT	2	0
1	A	541	UFT	1	0
1	A	539	CFZ	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	540	UFT	2	0
1	A	133	UFT	2	0
1	A	83	UFT	1	0
1	A	194	UFT	1	0
1	A	398	UFT	1	0
1	A	12	CFZ	2	0
1	A	319	UFT	2	0
1	A	407	CFZ	3	0
1	A	445	CFZ	1	0
1	A	399	UFT	1	0
1	A	374	CFZ	1	0
1	A	528	UFT	1	0
1	A	104	CFZ	2	0
1	A	110	CFZ	2	0
1	A	265	UFT	1	0
1	A	134	UFT	1	0
1	A	325	CFZ	1	0
1	A	298	CFZ	1	0
1	A	228	UFT	1	0
1	A	132	CFZ	1	0
1	A	111	CFZ	1	0
1	A	154	CFZ	1	0
1	A	14	UFT	2	0
1	A	468	CFZ	3	0
1	A	215	UFT	1	0
1	A	179	CFZ	1	0
1	A	221	UFT	1	0
1	A	88	UFT	3	0
1	A	15	UFT	1	0
1	A	247	UFT	2	0
1	A	51	CFZ	1	0
1	A	28	UFT	1	0
1	A	349	CFZ	2	0
1	A	318	UFT	1	0
1	A	71	UFT	2	0
1	A	499	UFT	1	0
1	A	289	CFZ	1	0
1	A	452	CFZ	1	0
1	A	530	CFZ	1	0
1	A	421	UFT	1	0
1	A	507	CFZ	1	0
1	A	153	UFT	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	116	CFZ	1	0
1	A	223	CFZ	2	0
1	A	404	CFZ	1	0
1	A	450	UFT	1	0
1	A	188	UFT	1	0
1	A	368	CFZ	3	0
1	A	251	CFZ	3	0
1	A	183	CFZ	1	0
1	A	389	UFT	2	0
1	A	87	UFT	2	0
1	A	237	UFT	3	0
1	A	428	CFZ	2	0
1	A	365	UFT	1	0
1	A	314	CFZ	1	0
1	A	7	UFT	1	0
1	A	72	CFZ	2	0
1	A	163	CFZ	4	0
1	A	276	UFT	1	0
1	A	545	UFT	1	0
1	A	487	CFZ	1	0
1	A	18	UFT	1	0
1	A	170	UFT	1	0
1	A	350	UFT	3	0
1	A	113	CFZ	1	0
1	A	250	CFZ	3	0
1	A	282	UFT	2	0
1	A	287	CFZ	3	0
1	A	6	CFZ	1	0
1	A	97	UFT	1	0
1	A	127	CFZ	3	0
1	A	220	CFZ	1	0
1	A	144	CFZ	2	0
1	A	503	CFZ	1	0
1	A	496	CFZ	1	0
1	A	26	UFT	2	0
1	A	230	CFZ	2	0
1	A	433	CFZ	1	0
1	A	459	UFT	3	0
1	A	210	CFZ	1	0
1	A	213	CFZ	2	0
1	A	346	CFZ	2	0
1	A	105	UFT	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	124	CFZ	2	0
1	A	430	CFZ	4	0
1	A	280	CFZ	2	0
1	A	211	CFZ	3	0
1	A	387	CFZ	1	0
1	A	538	UFT	1	0
1	A	191	UFT	1	0
1	A	4	CFZ	1	0
1	A	43	UFT	1	0
1	A	283	CFZ	3	0
1	A	385	UFT	1	0
1	A	36	CFZ	1	0
1	A	397	CFZ	1	0
1	A	549	UFT	1	0
1	A	337	CFZ	2	0
1	A	13	UFT	2	0

5.5 Carbohydrates (i)

There are no oligosaccharides 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.

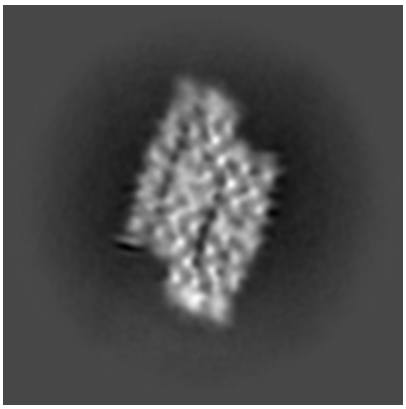
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-53795. These allow visual inspection of the internal detail of the map and identification of artifacts.

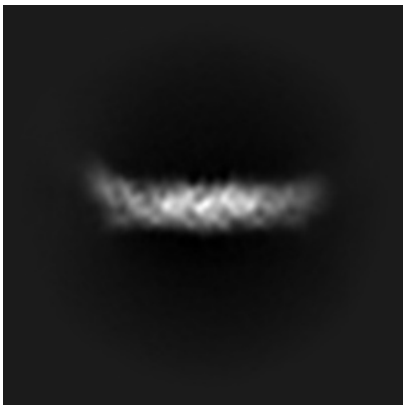
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

6.1.1 Primary map



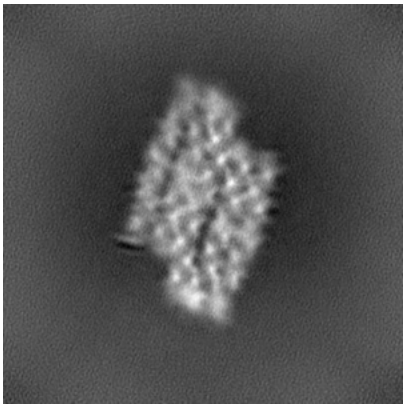
X



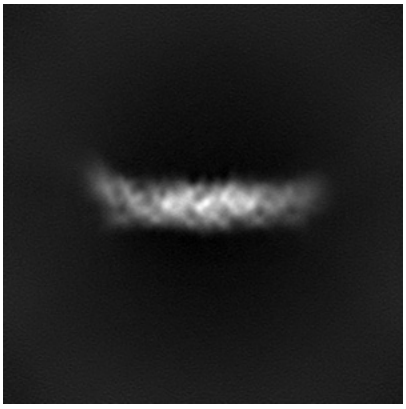
Y

Z

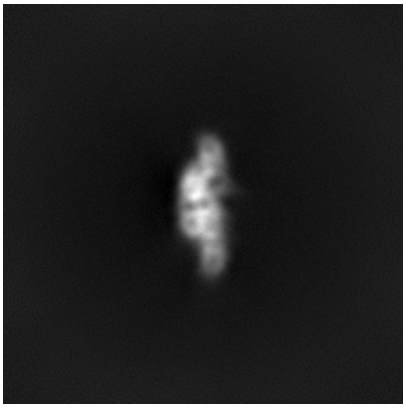
6.1.2 Raw map



X



Y



Z

The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

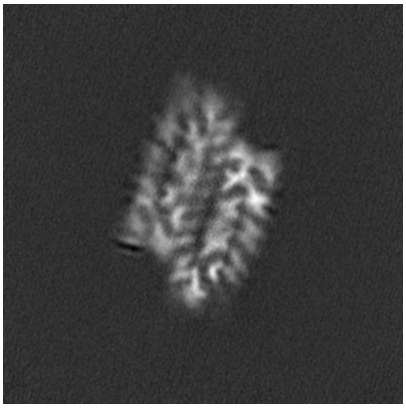
6.2.1 Primary map

X Index: 128

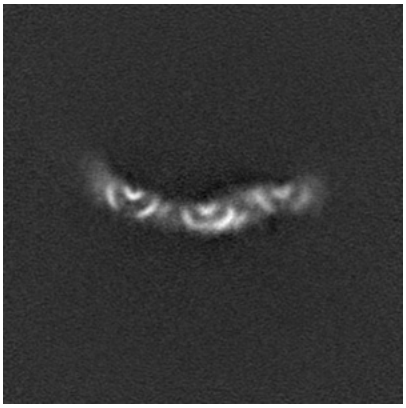
Y Index: 128

Z Index: 128

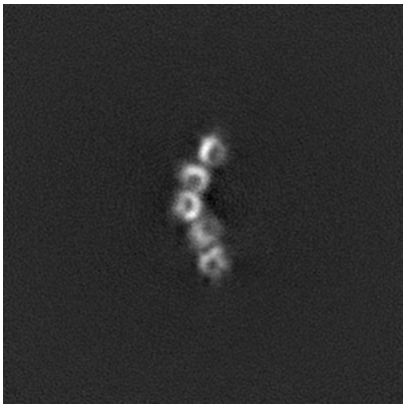
6.2.2 Raw map



X Index: 128



Y Index: 128



Z Index: 128

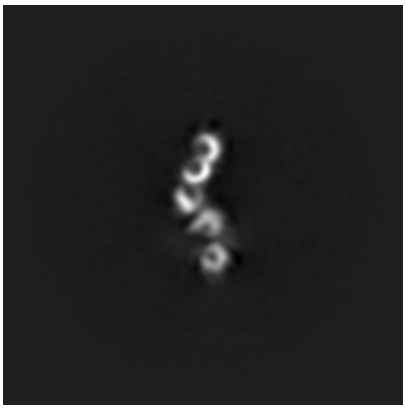
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

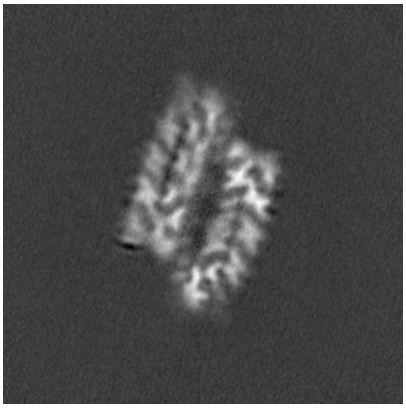
X Index: 130

Y Index: 133

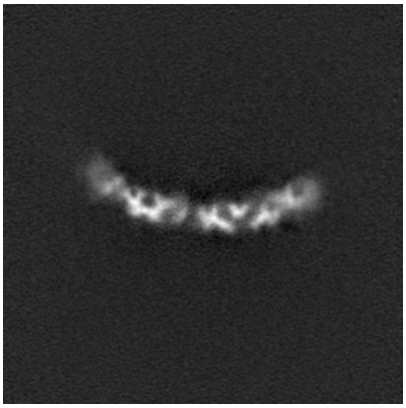


Z Index: 143

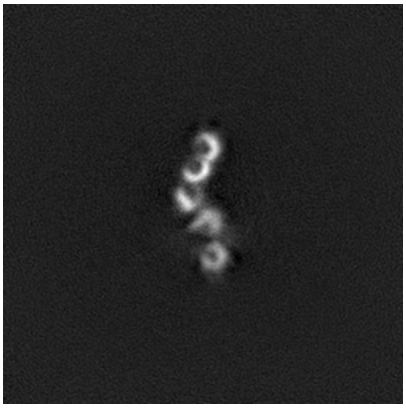
6.3.2 Raw map



X Index: 130



Y Index: 133

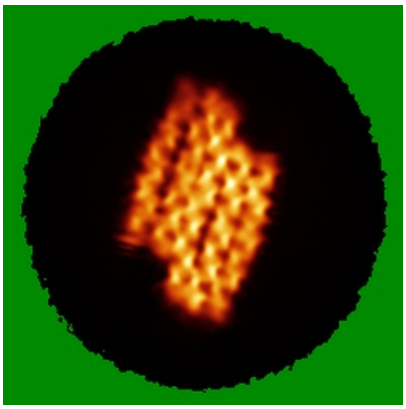


Z Index: 143

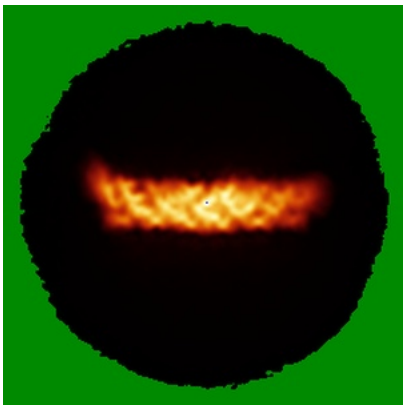
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

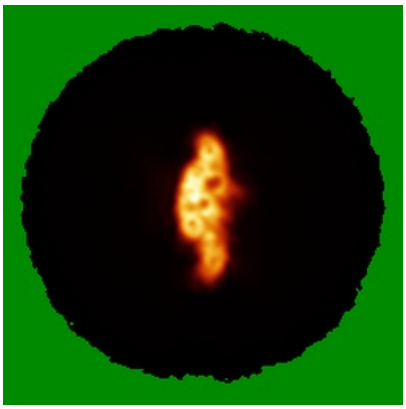
6.4.1 Primary map



X

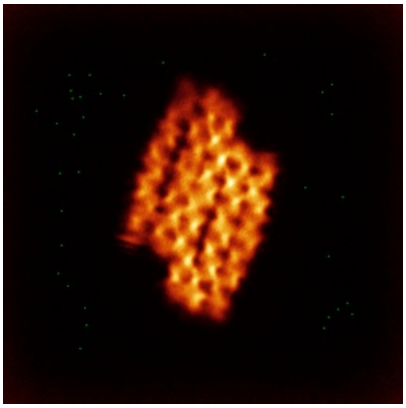


Y

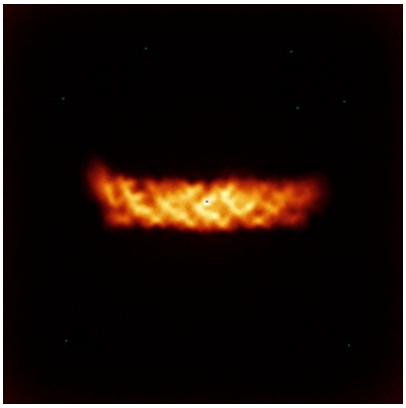


Z

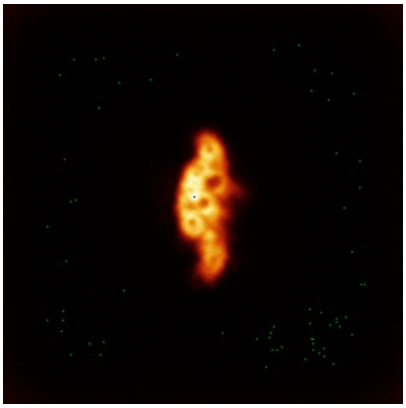
6.4.2 Raw map



X



Y

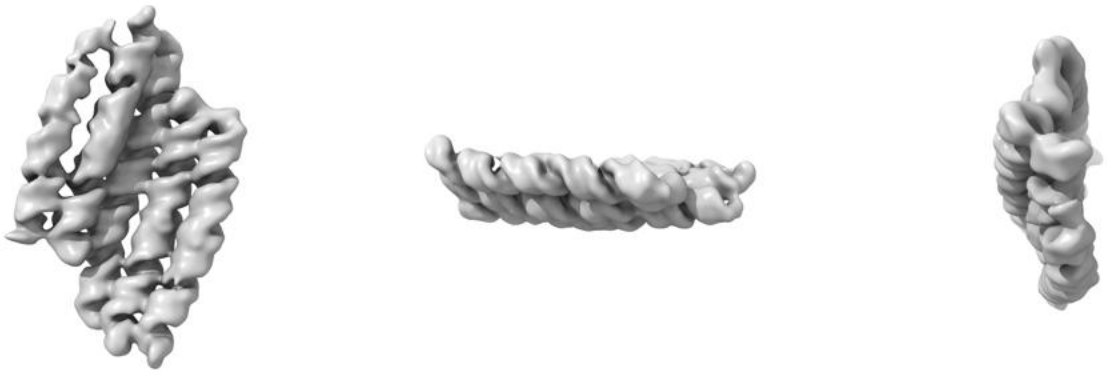


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.14. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

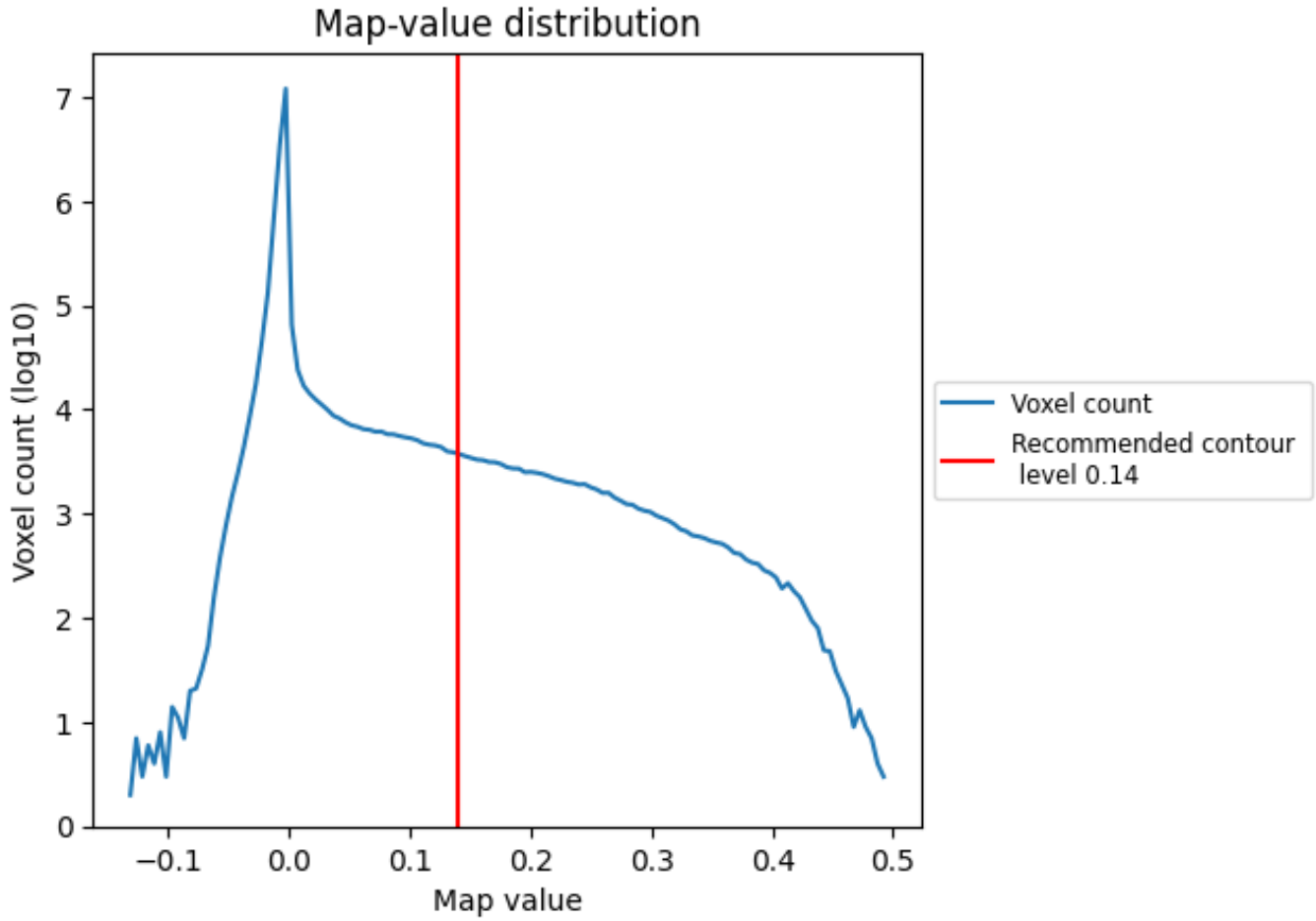
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

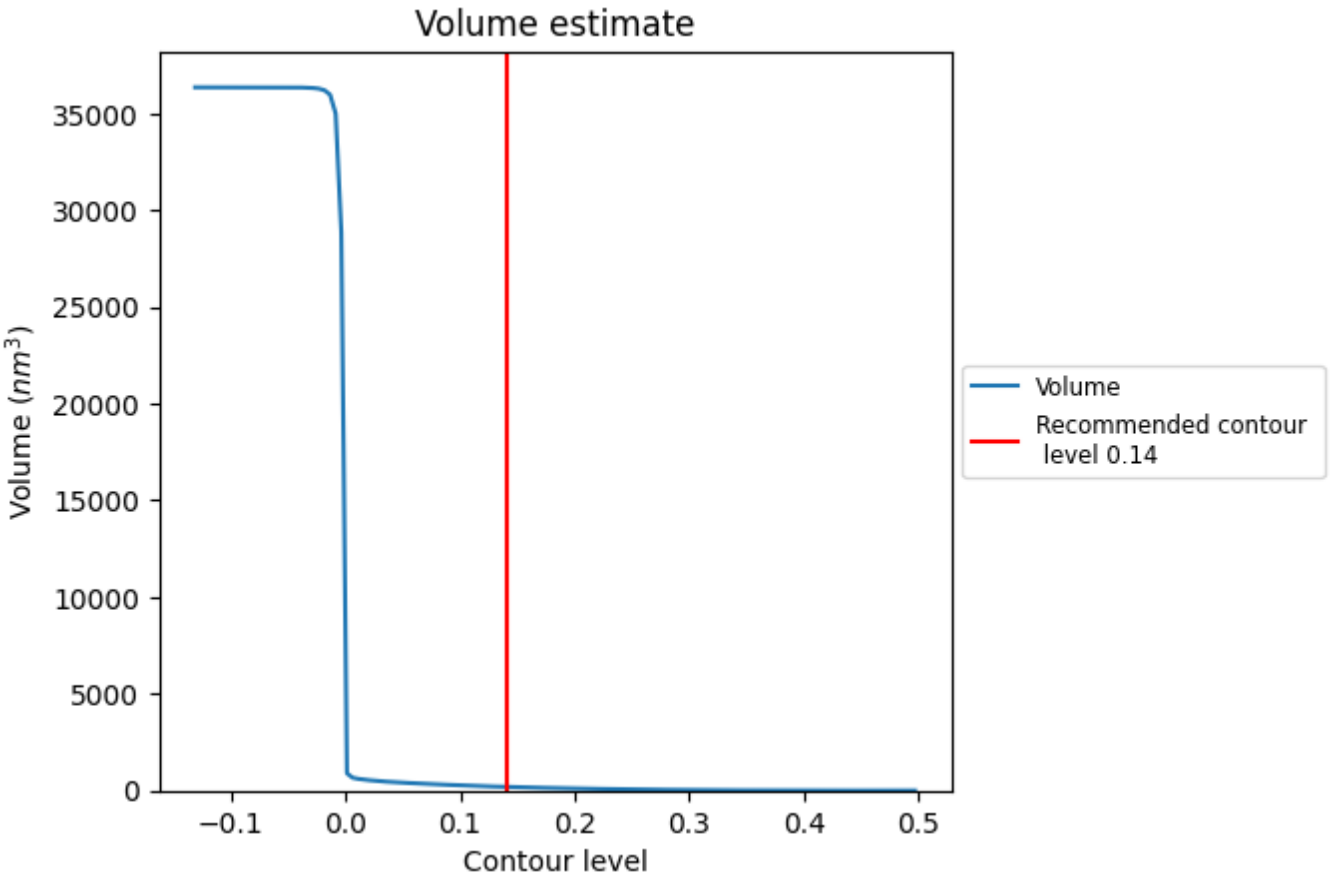
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

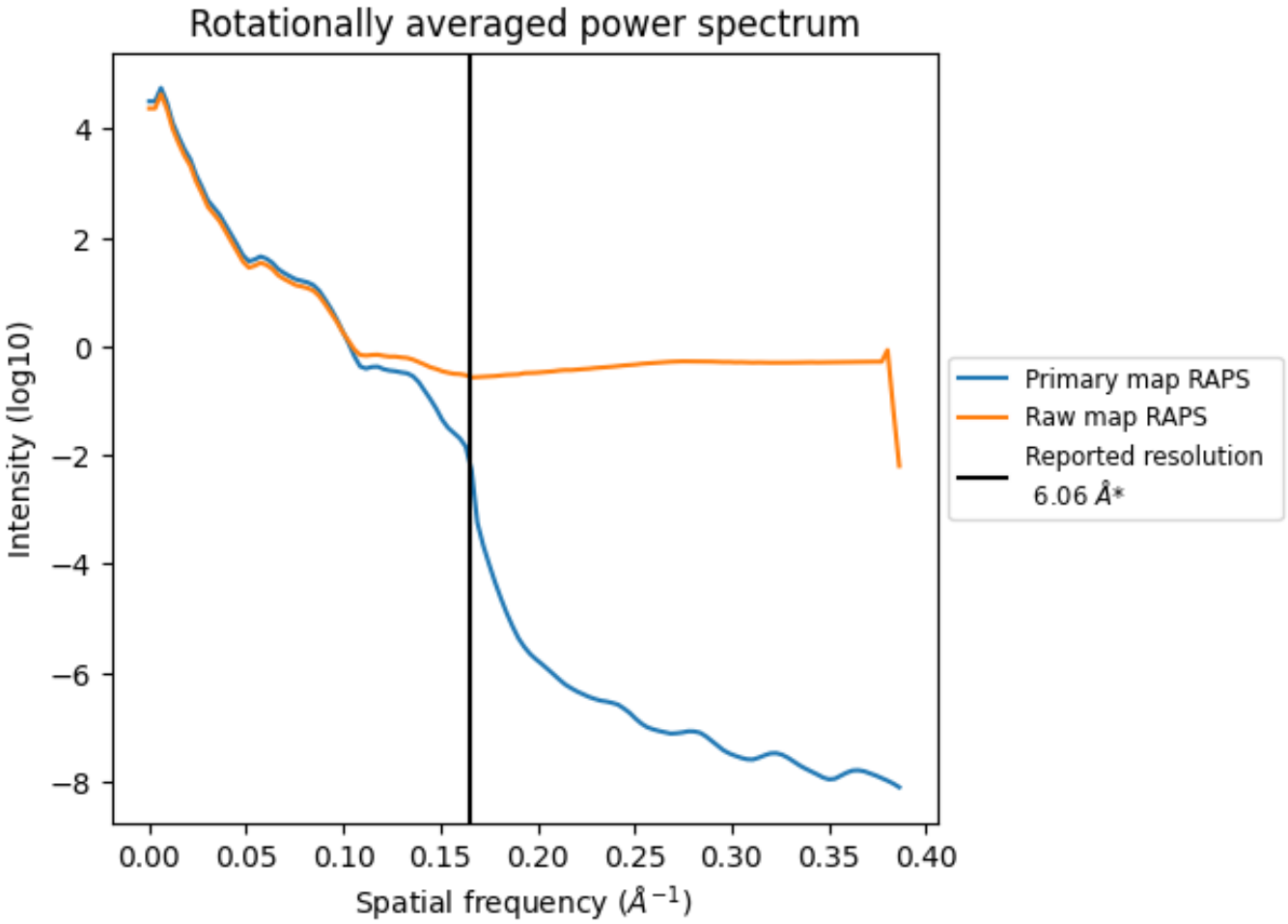
7.2 Volume estimate



The volume at the recommended contour level is 190 nm^3; this corresponds to an approximate mass of 172 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

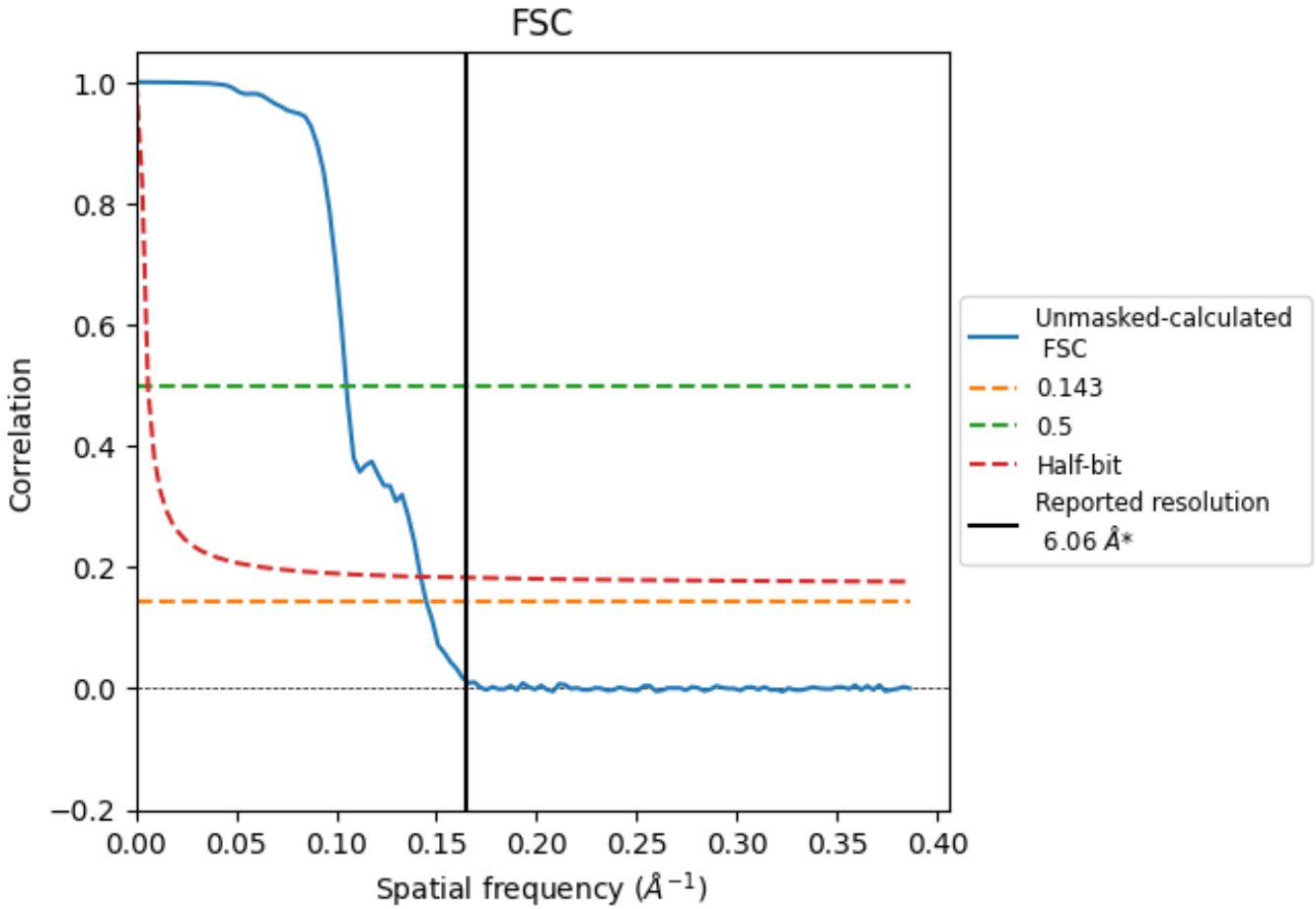


*Reported resolution corresponds to spatial frequency of 0.165 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.165 Å^{-1}

8.2 Resolution estimates (i)

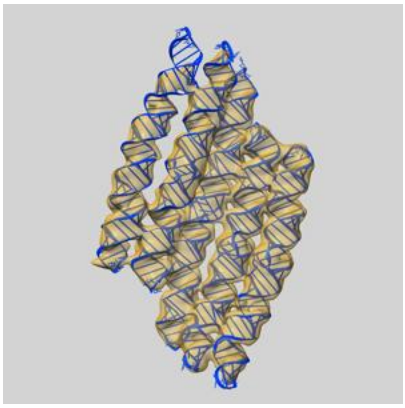
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.06	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.90	9.52	7.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.90 differs from the reported value 6.06 by more than 10 %

9 Map-model fit

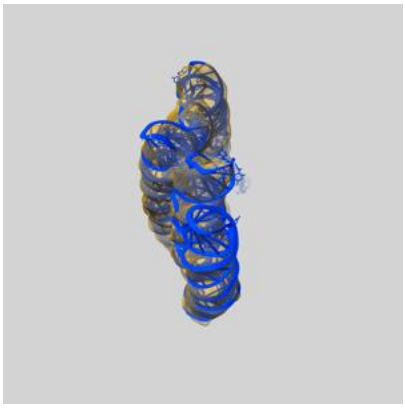
This section contains information regarding the fit between EMDB map EMD-53795 and PDB model 9R7W. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay



X

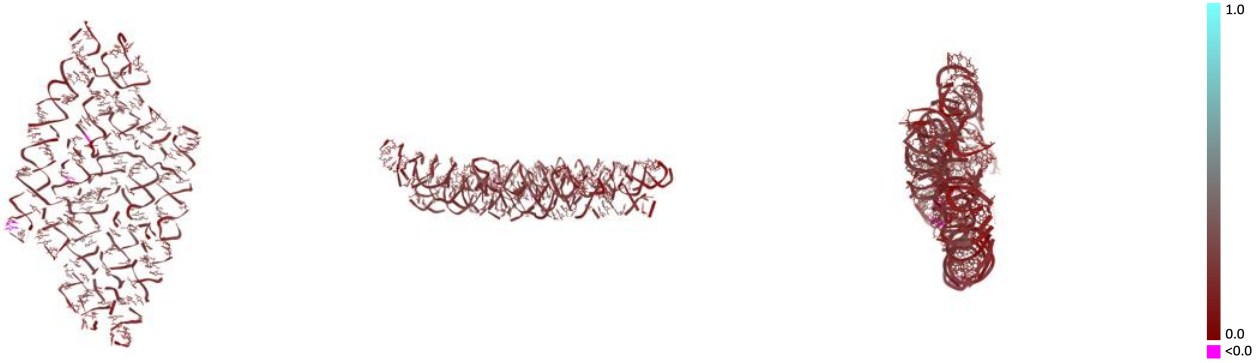
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.14 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model



X Y Z

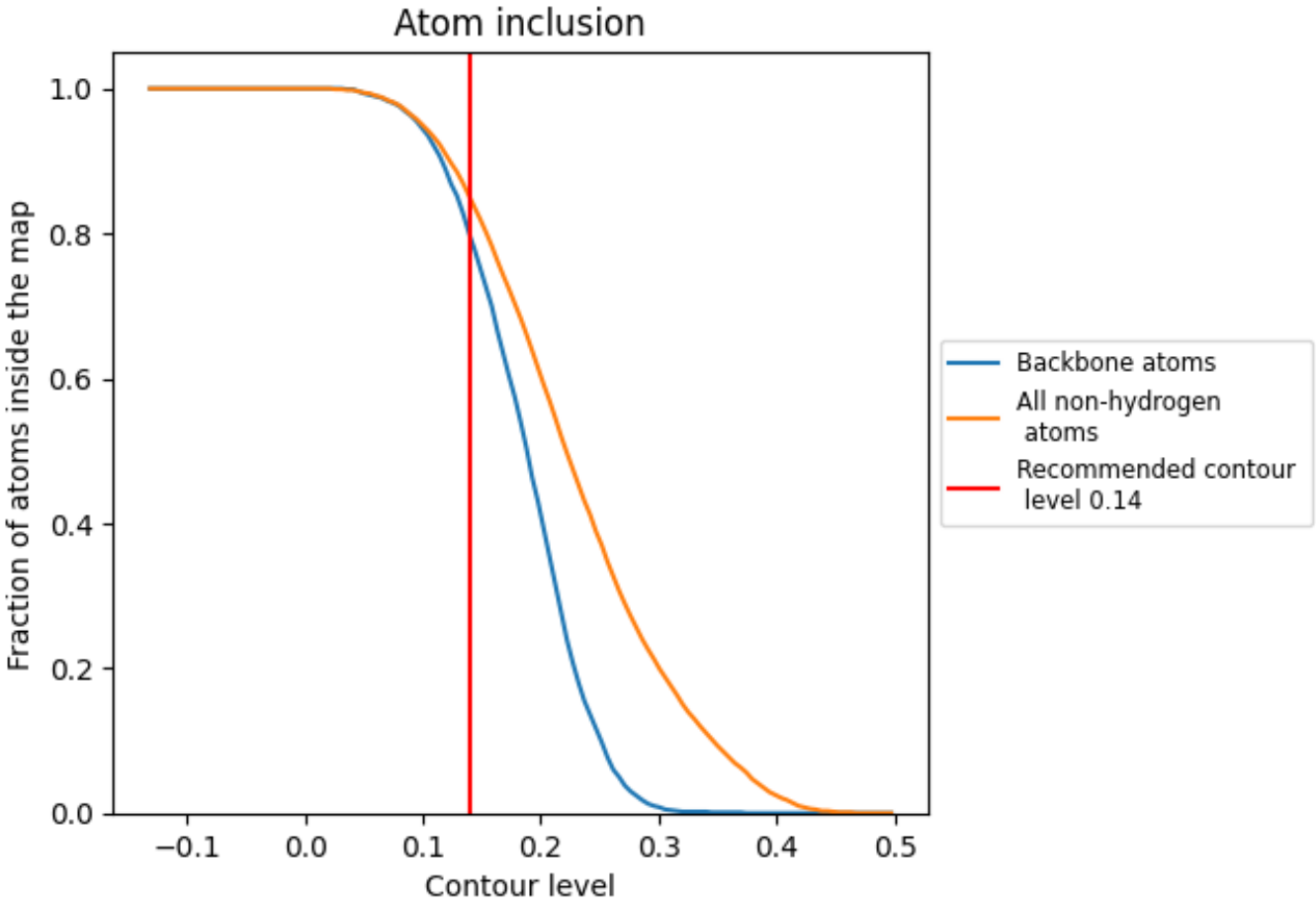
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model

X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.14).

9.4 Atom inclusion (i)



At the recommended contour level, 80% of all backbone atoms, 85% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.14) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8490	0.1890
A	0.8490	0.1890