V&V Reference Report
L2 ASCDS Version : 7.6.9

Observation 5527 - L2 Version 003
Chandra X-Ray Center

L2 Processing Date : Sep 14 2006

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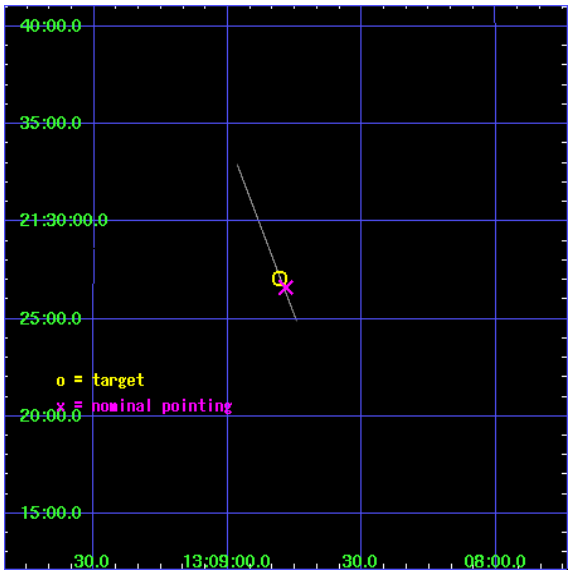
1 Front

seq_num	500521
obs_id	5527
title	Timing the Enigmatic Nearby Neutron Star RX J1308.8+2127
observer	Dr David Kaplan
object	RX J1308.8+2127
ra_targ	197.20125
dec_targ	21.451889
ra_nom	197.19596471639
dec_nom	21.443618321682
roll_nom	248.9083925884
revision	3
ontime	5068.0
livetime	5048.203125
ontime7	5068.0
l2events	27049

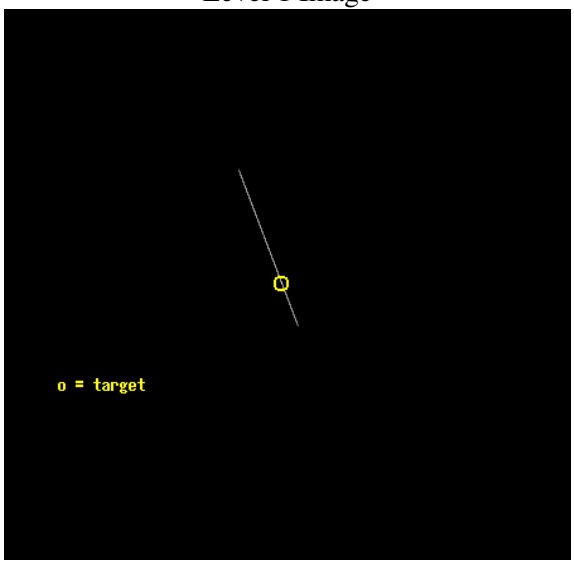


2 OBI

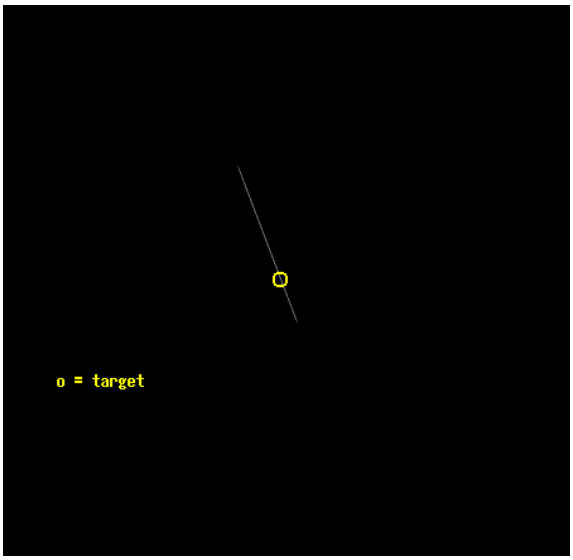
2.1 OBI

2.1.1 Images

Level 1 Image

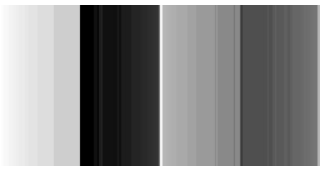


Level 1 Bad Events



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-14T22:06:16
revision	3

sched_exp_time	4897.101000
ontime	5558.002142936
ontime7	5558.002142936
l1events	34581

2.1.4 Events

	ccd 7
level 1 events	34581
rejected events	6564
rejected %	18%

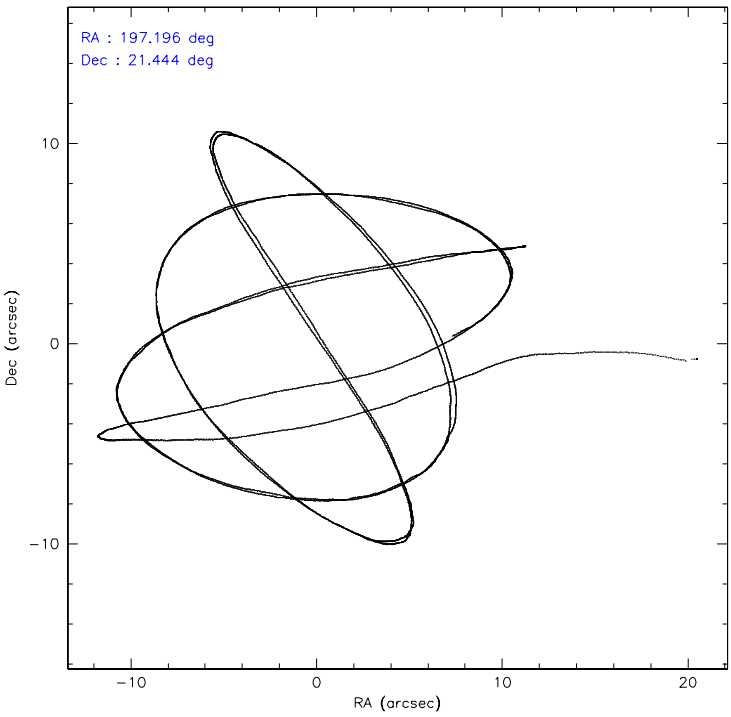
	ccd 7
grade 0 events	3164
	9%
grade 1 events	37
	0%
grade 2 events	7972
	23%
grade 3 events	1408
	4%
grade 4 events	1288
	3%
grade 5 events	4149
	11%
grade 6 events	16563
	47%
grade 7 events	0
	0%

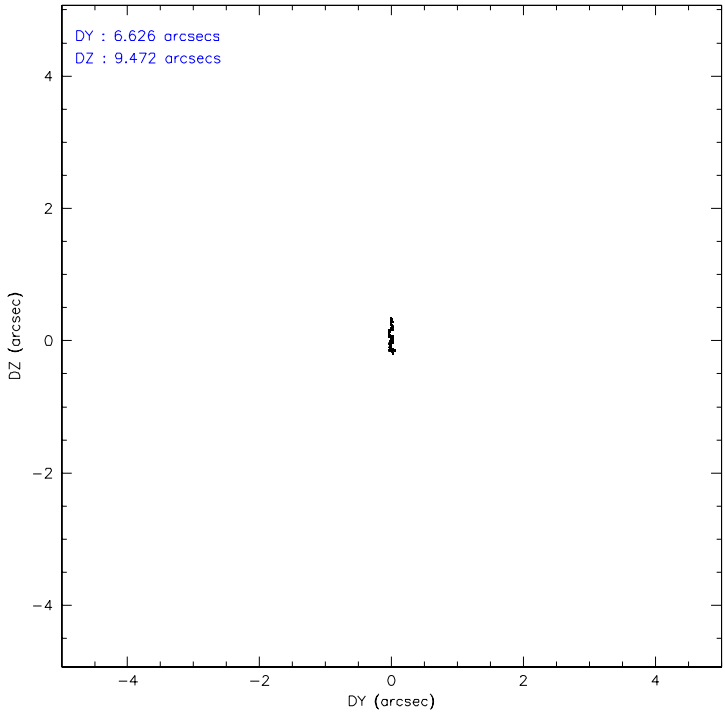
2.2 Compared Parameters

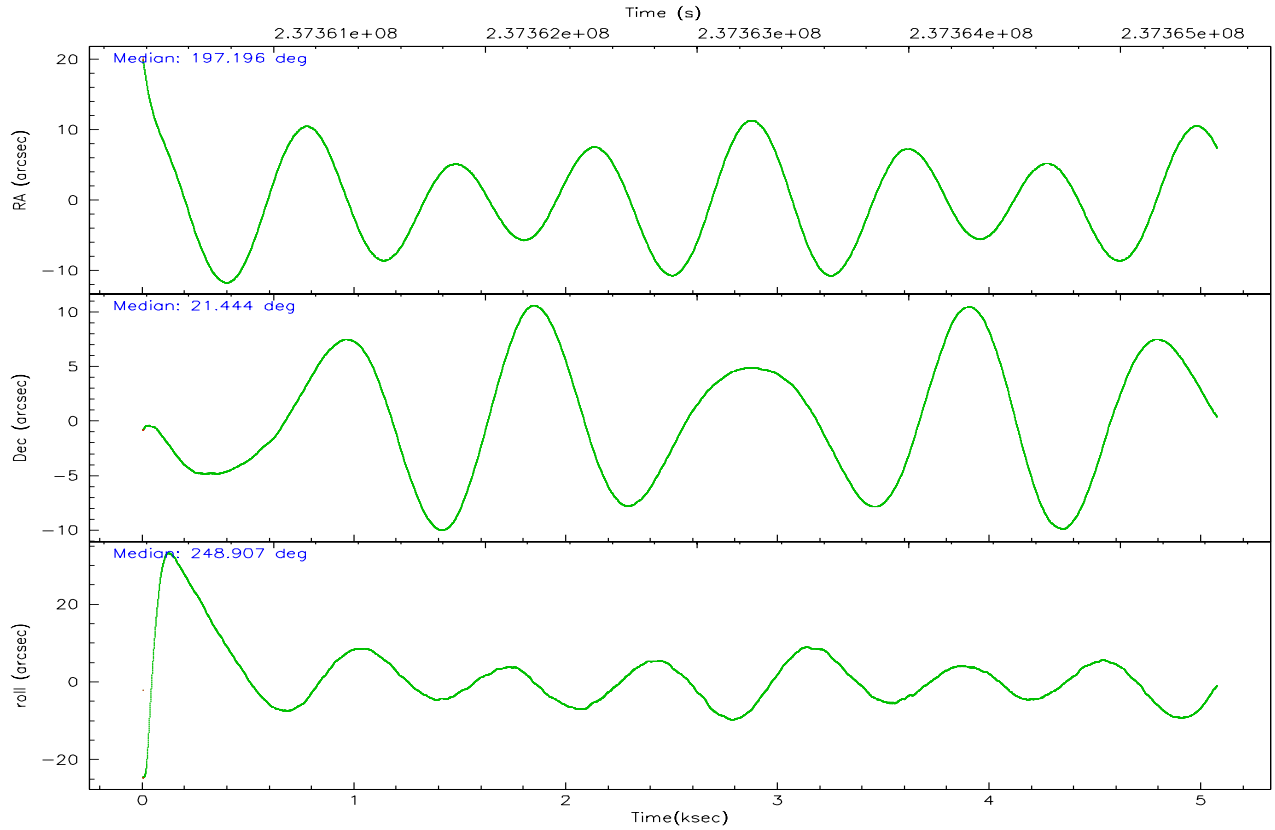
Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
Pointing RA	197.190951	197.195964716393
Pointing Dec	21.470459	21.44361832168239
Pointing Roll	248.753767	248.9083925884022
SIM focus pos (mm)	-0.684267	-0.6828225247311905
SIM defocus (mm)	0	0.001444936568705701
SIM translation stage pos (mm)	-190.132523	-190.1425803651734
SIM translation stage offset (mm)	0	0.01005778216563158
Observation start time	237360566.184000	237359906.0709
Observation start date	2005-07-10T05:28:22	2005-07-10T05:18:26
Observation end time	237365463.184000	237365681.94616
Observation end date	2005-07-10T06:49:59	2005-07-10T06:54:41
Read mode	CONTINUOUS	CONTINUOUS

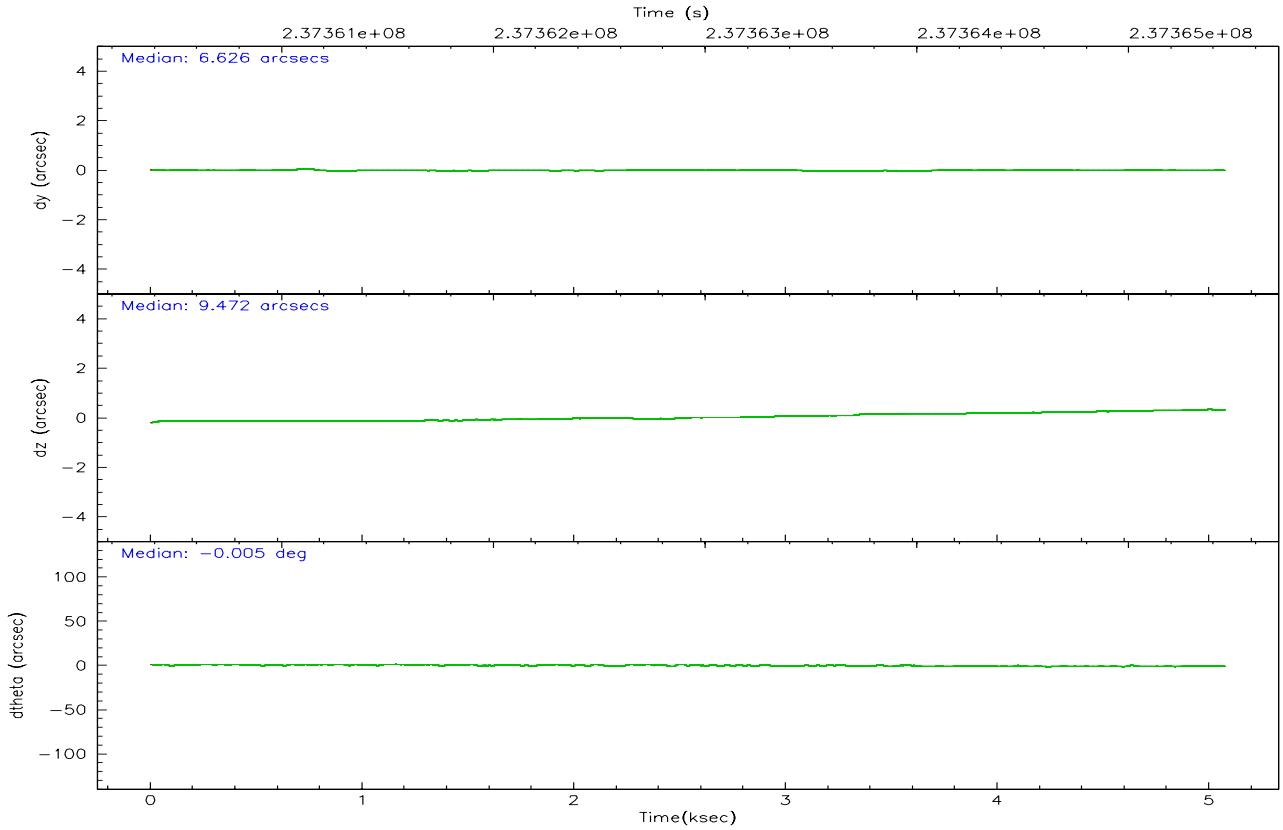
Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	0.000000	0

2.3 Aspect


RA : 197.196 deg
Dec : 21.444 deg
10
0
−10
Dec (arcsec)
−10
0
10
20
RA (arcsec)


DY : 6.626 arcsecs
DZ : 9.472 arcsecs
4
2
0
−2
−4
DZ (arcsec)
−4
−2
0
2
4
DY (arcsec)


Time (s)
2.37361e+08
2.37362e+08
2.37363e+08
2.37364e+08
2.37365e+08
Median: 197.196 deg
RA (arcsec)
Median: 21.444 deg
Dec (arcsec)
Median: 248.907 deg
roll (arcsec)
Time(ksec)

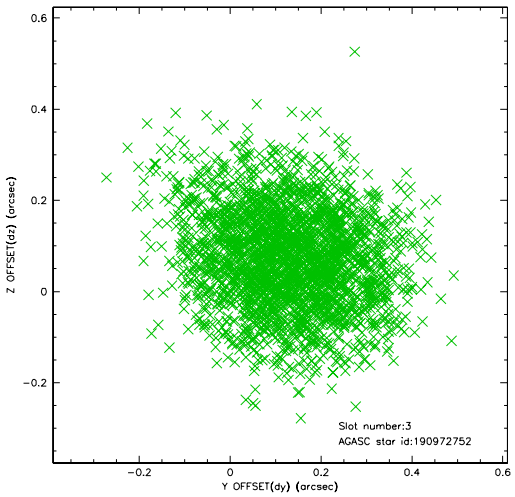

Time (s)
2.37361e+08
2.37362e+08
2.37363e+08
2.37364e+08
2.37365e+08
Median: 6.626 arcsecs
dy (arcsec)
Median: 9.472 arcsecs
dz (arcsec)
Median: −0.005 deg
dtheta (arcsec)
Time(ksec)

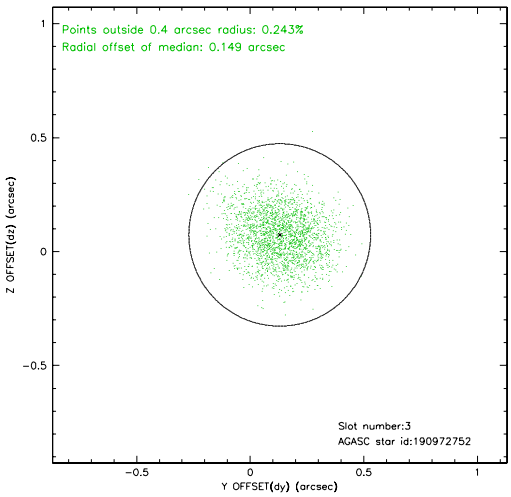
Slot Statistics

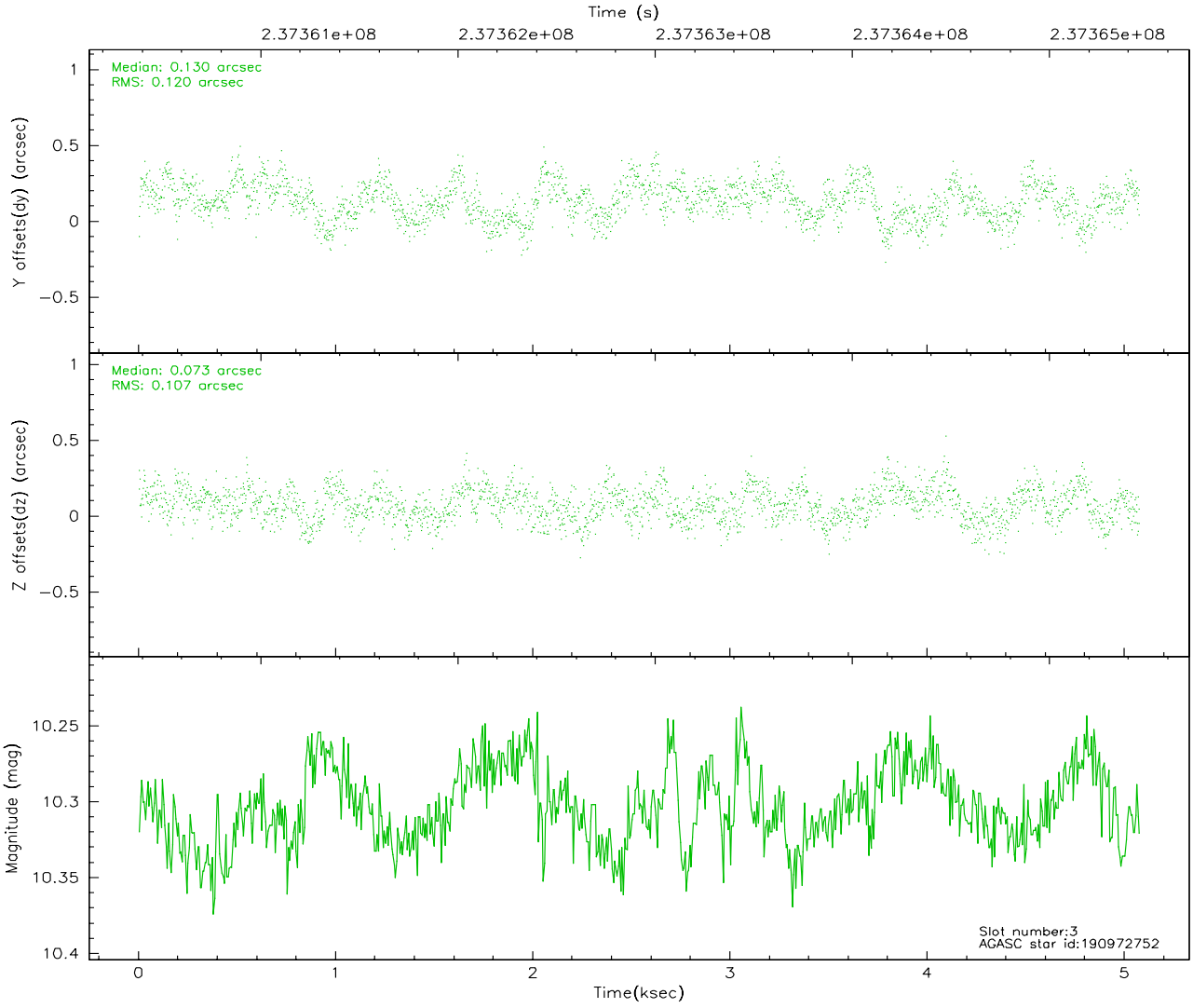
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1237	-0.047	-0.019	0.008	0.012	0.000000	0.000000	-759.39	-1730.72
1	FID	ACIS-S-4	7.21	1238	0.060	0.028	0.005	0.008	0.000000	0.000000	2153.43	176.61
2	FID	ACIS-S-5	7.23	1237	-0.044	-0.000	0.008	0.014	0.000000	0.000000	-1810.71	171.57
3	GUIDE	190972752	10.30	2474	0.130	0.073	0.172	0.271	197.567107	21.351082	-57.80	1330.50
4	GUIDE	190973928	9.83	2472	-0.010	-0.036	0.160	0.262	197.904188	21.564389	-1185.66	2101.16
5	GUIDE	190979840	10.35	2470	0.094	-0.082	0.170	0.280	197.337465	20.846267	1915.14	1274.61
6	GUIDE	190974376	6.78	2476	-0.329	-0.004	0.057	0.108	197.884749	21.918670	-2347.90	1573.52
7	GUIDE	190977688	7.91	2475	0.112	0.040	0.071	0.125	197.454100	20.653773	2417.69	1891.97

2.4 Star Slots

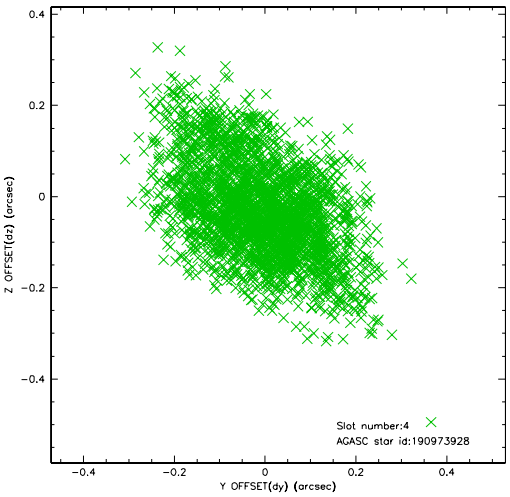
2.4.1 Slot 3

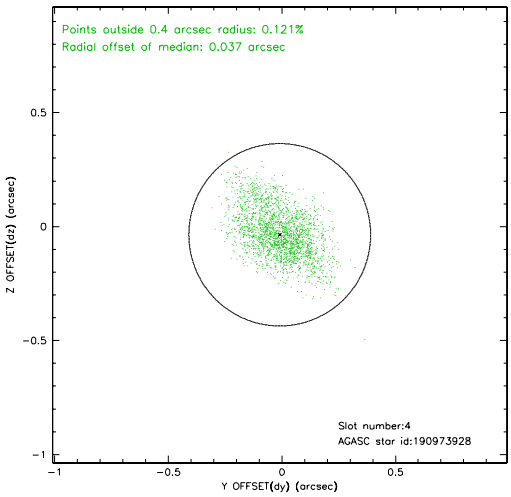


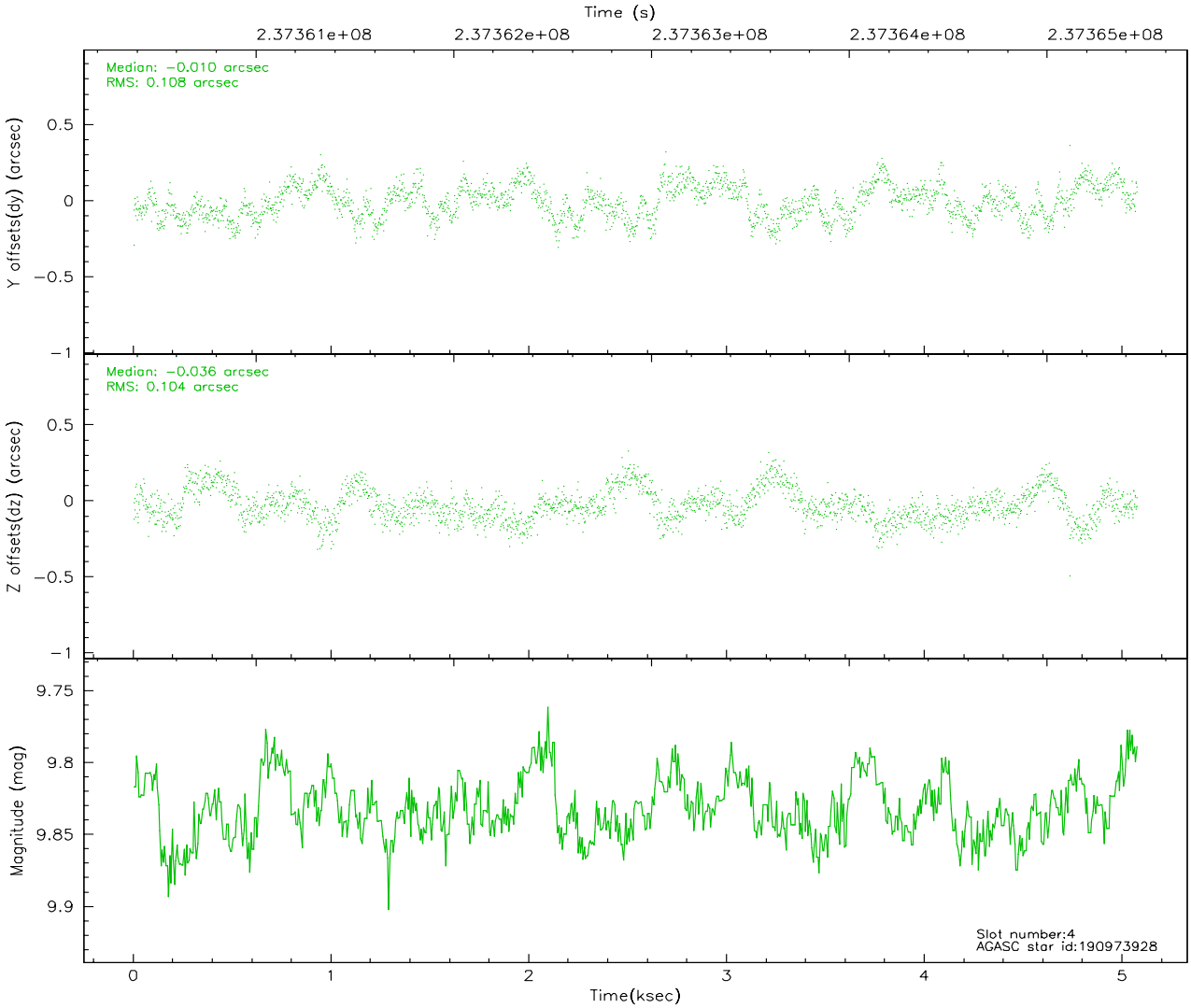




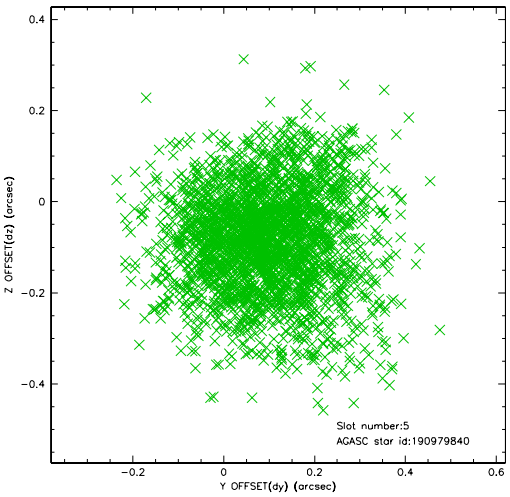
2.4.2 Slot 4

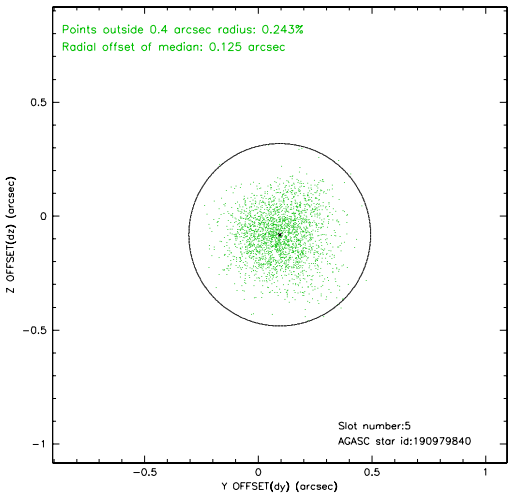

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:190973928

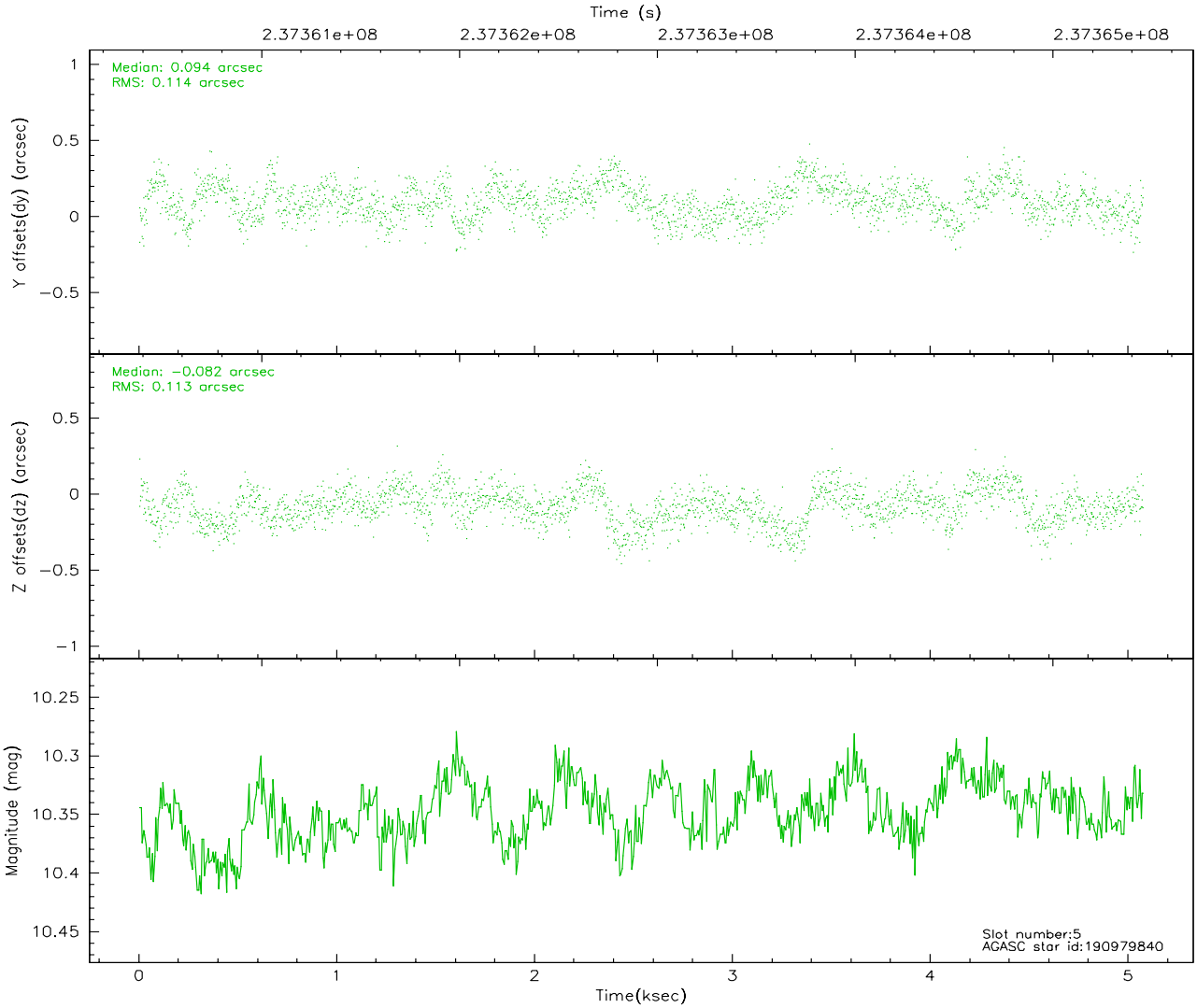

Points outside 0.4 arcsec radius: 0.121%
Radial offset of median: 0.037 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:190973928


Time (s)
Median: −0.010 arcsec
RMS: 0.108 arcsec
Y offsets(dy) (arcsec)
Median: −0.036 arcsec
RMS: 0.104 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:4
AGASC star id:190973928
Time(ksec)

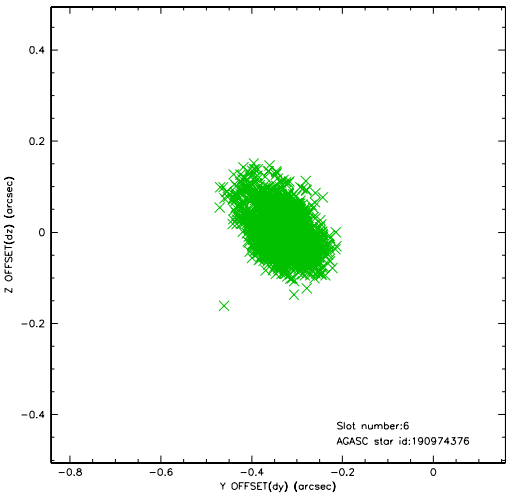
2.4.3 Slot 5

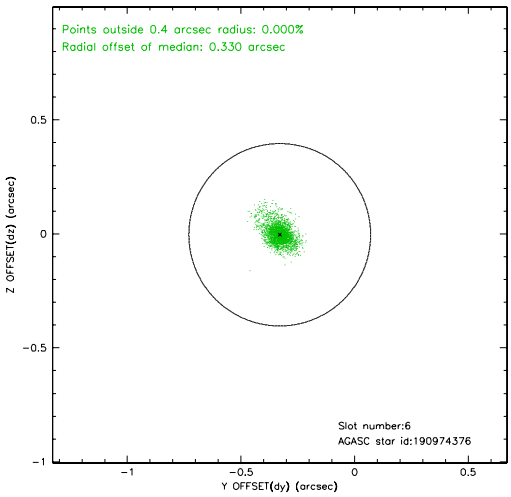

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:190979840

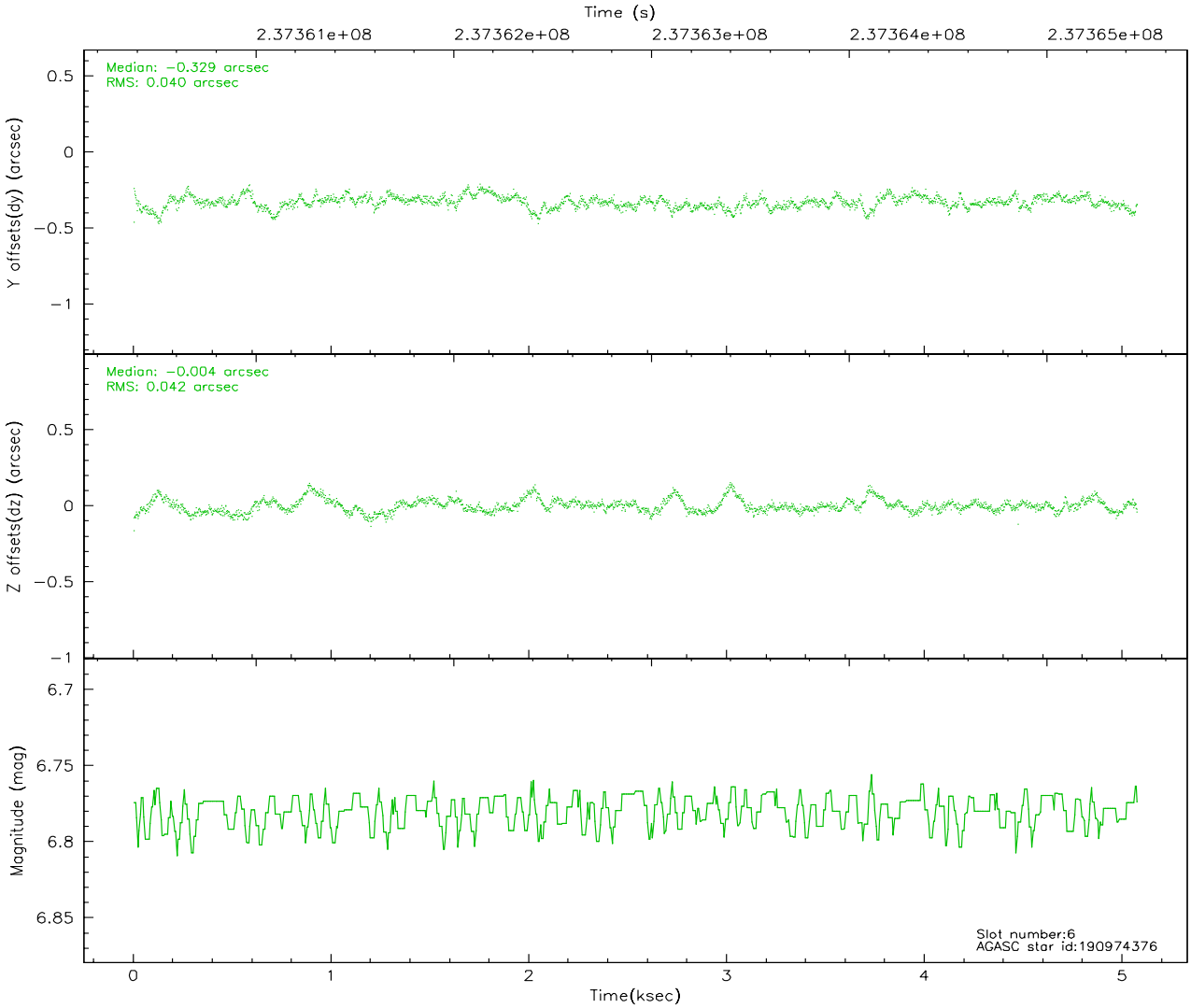

Points outside 0.4 arcsec radius: 0.243%
Radial offset of median: 0.125 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:190979840


Time (s)
Median: 0.094 arcsec
RMS: 0.114 arcsec
Y offsets(dy) (arcsec)
Median: −0.082 arcsec
RMS: 0.113 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:5
AGASC star id:190979840
Time(ksec)

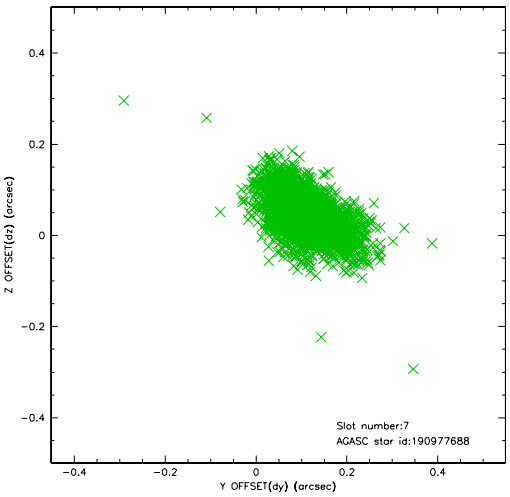
2.4.4 Slot 6

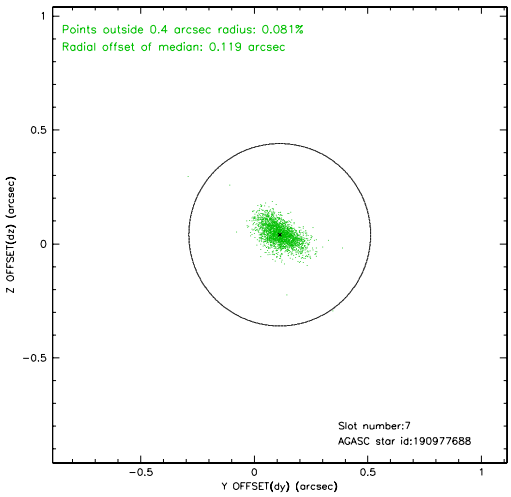

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:190974376

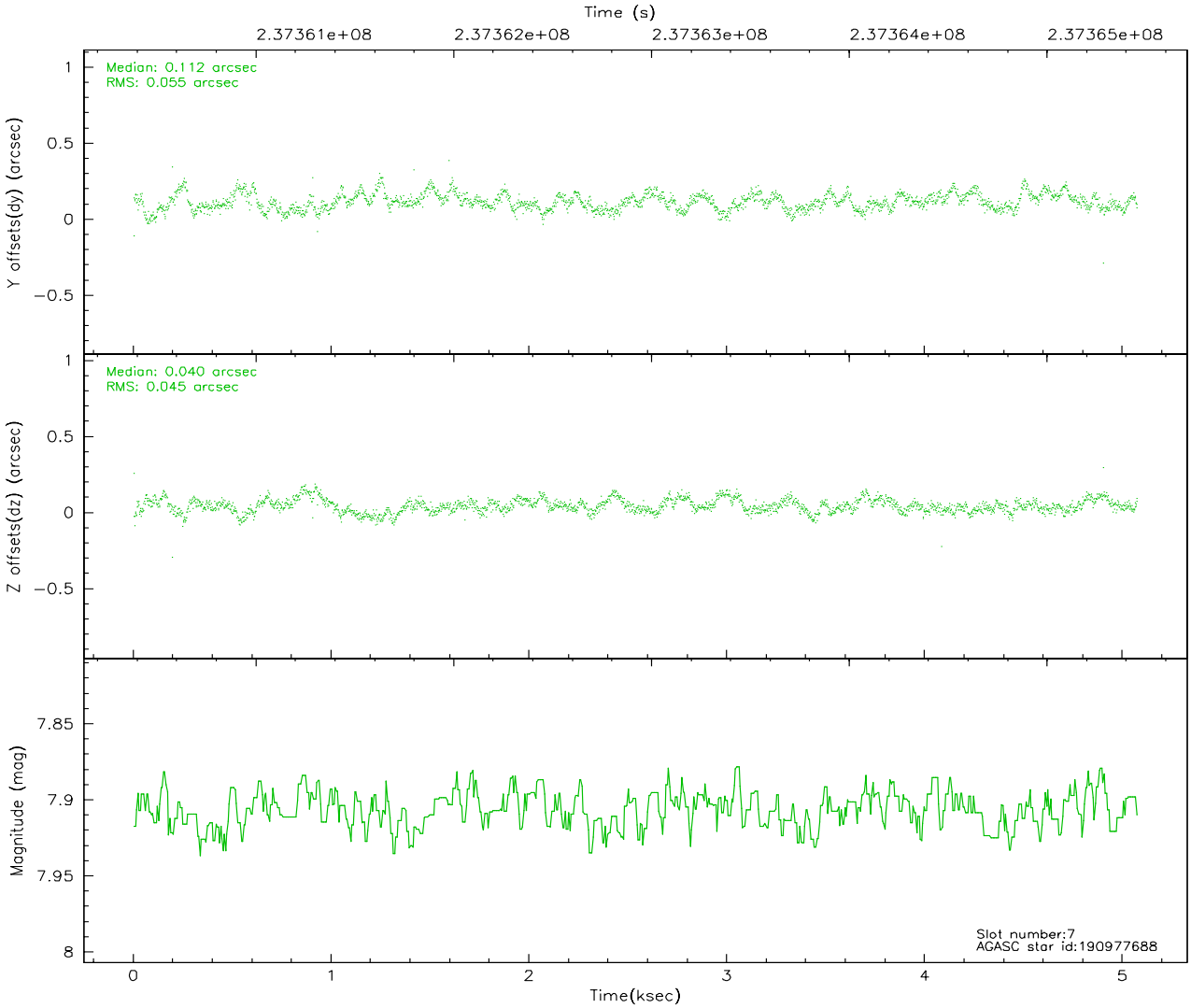

Points outside 0.4 arcsec radius: 0.000%
Radial offset of median: 0.330 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:190974376


Time (s)
2.37361e+08
2.37362e+08
2.37363e+08
2.37364e+08
2.37365e+08
Median: −0.329 arcsec
RMS: 0.040 arcsec
Y offsets(dy) (arcsec)
Median: −0.004 arcsec
RMS: 0.042 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:6
AGASC star id:190974376
Time(ksec)

2.4.5 Slot 7

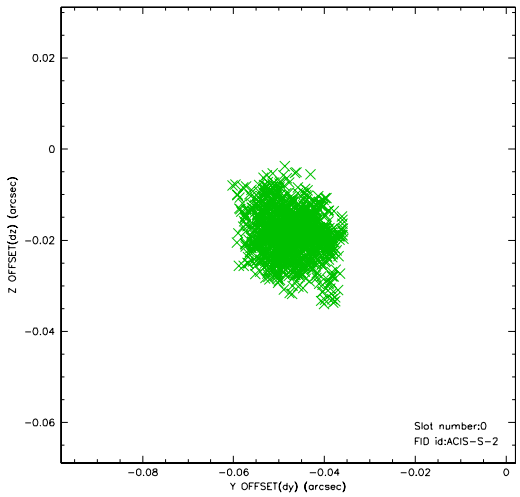

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:190977688

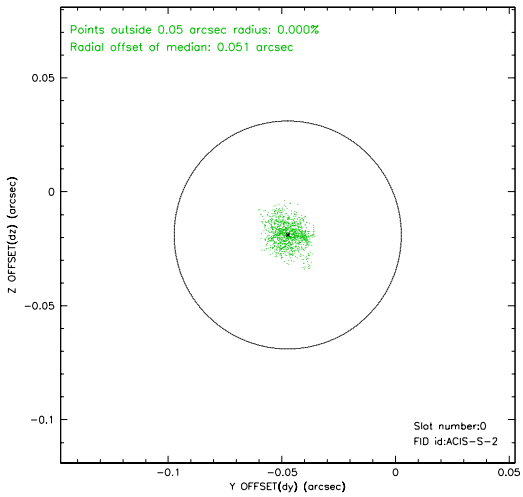

Points outside 0.4 arcsec radius: 0.081%
Radial offset of median: 0.119 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:190977688

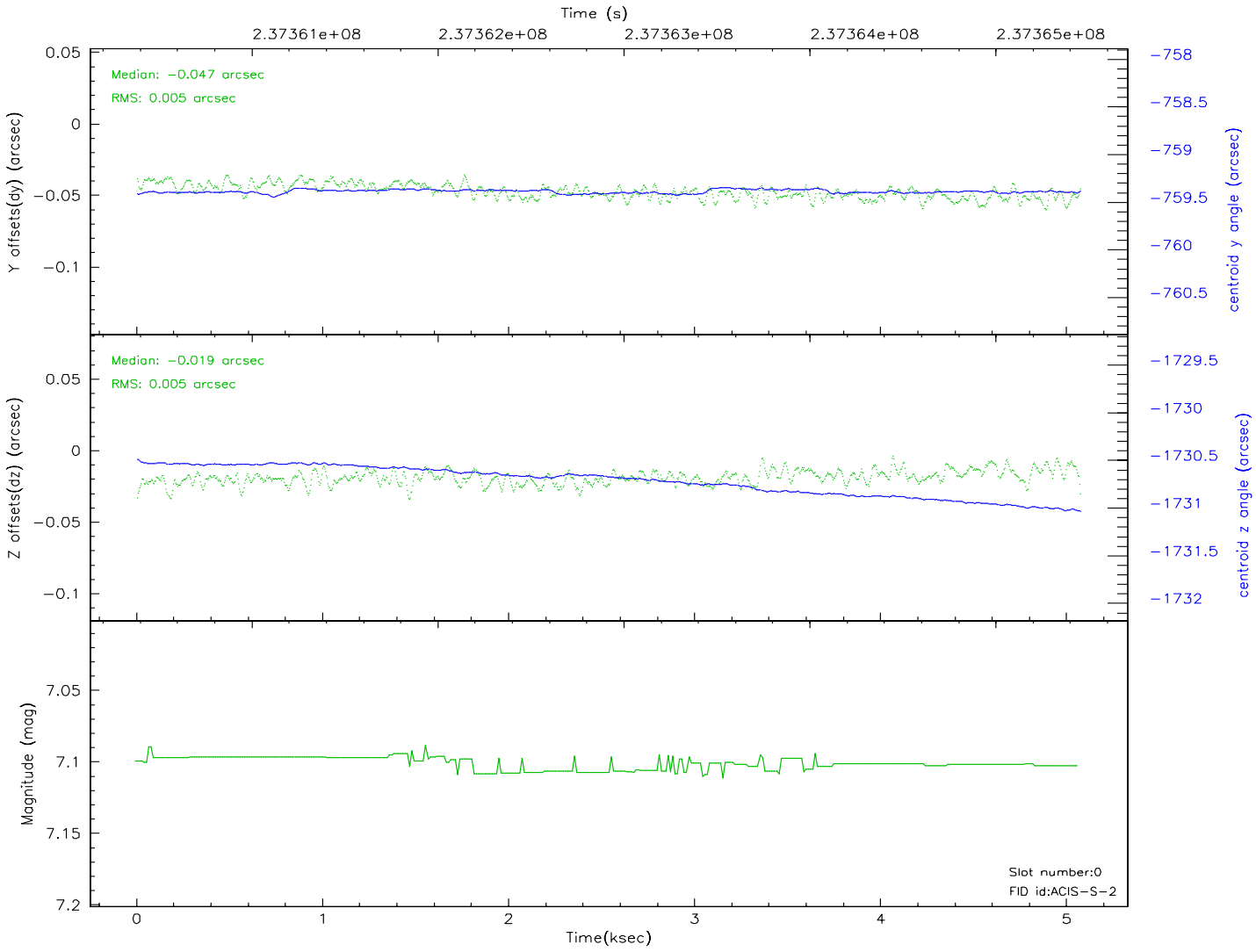

Time (s)
2.37361e+08
2.37362e+08
2.37363e+08
2.37364e+08
2.37365e+08
Median: 0.112 arcsec
RMS: 0.055 arcsec
Y offsets(dy) (arcsec)
Median: 0.040 arcsec
RMS: 0.045 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:7
AGASC star id:190977688
Time(ksec)

2.5 FID Slots

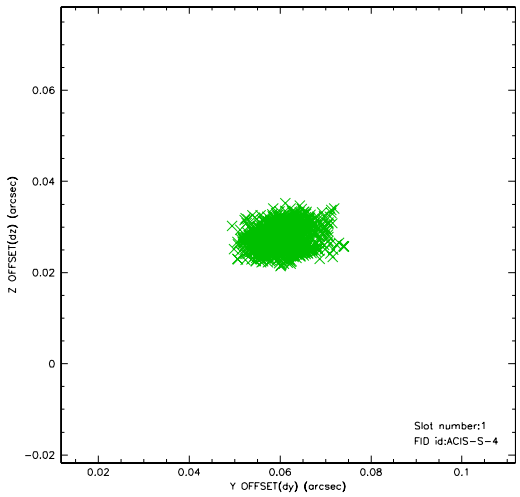
2.5.1 Slot 0

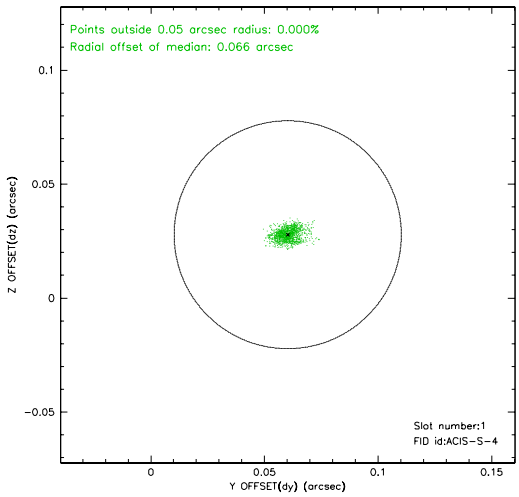


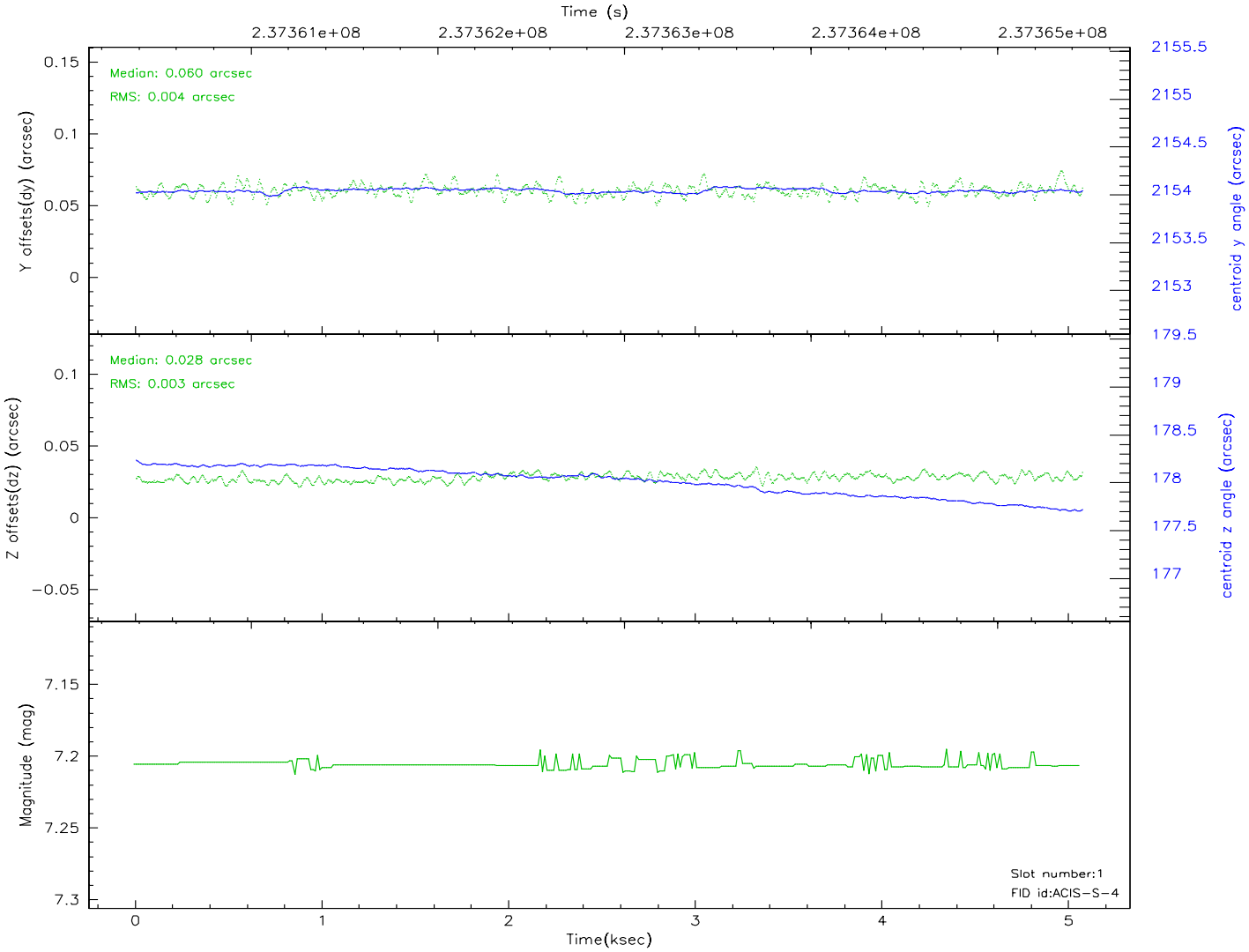




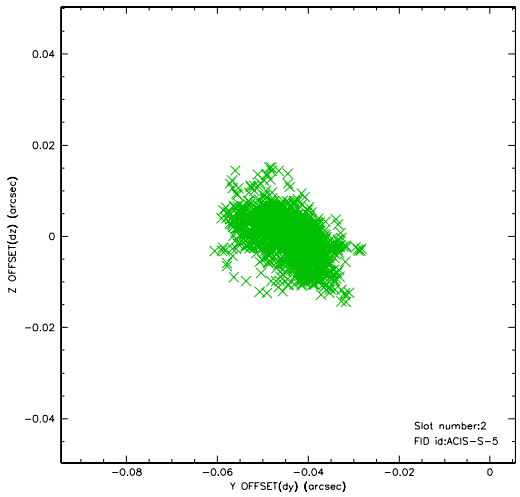
2.5.2 Slot 1

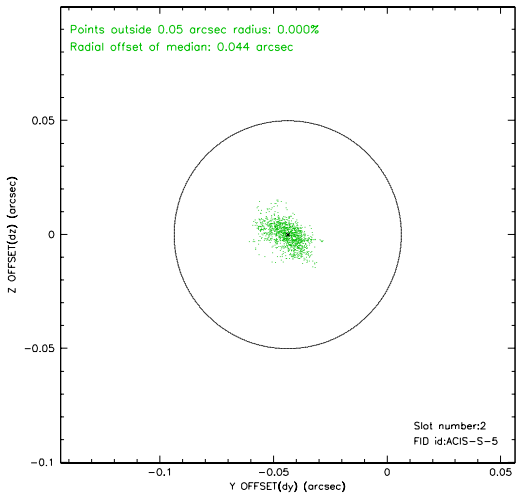

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:ACIS-S-4

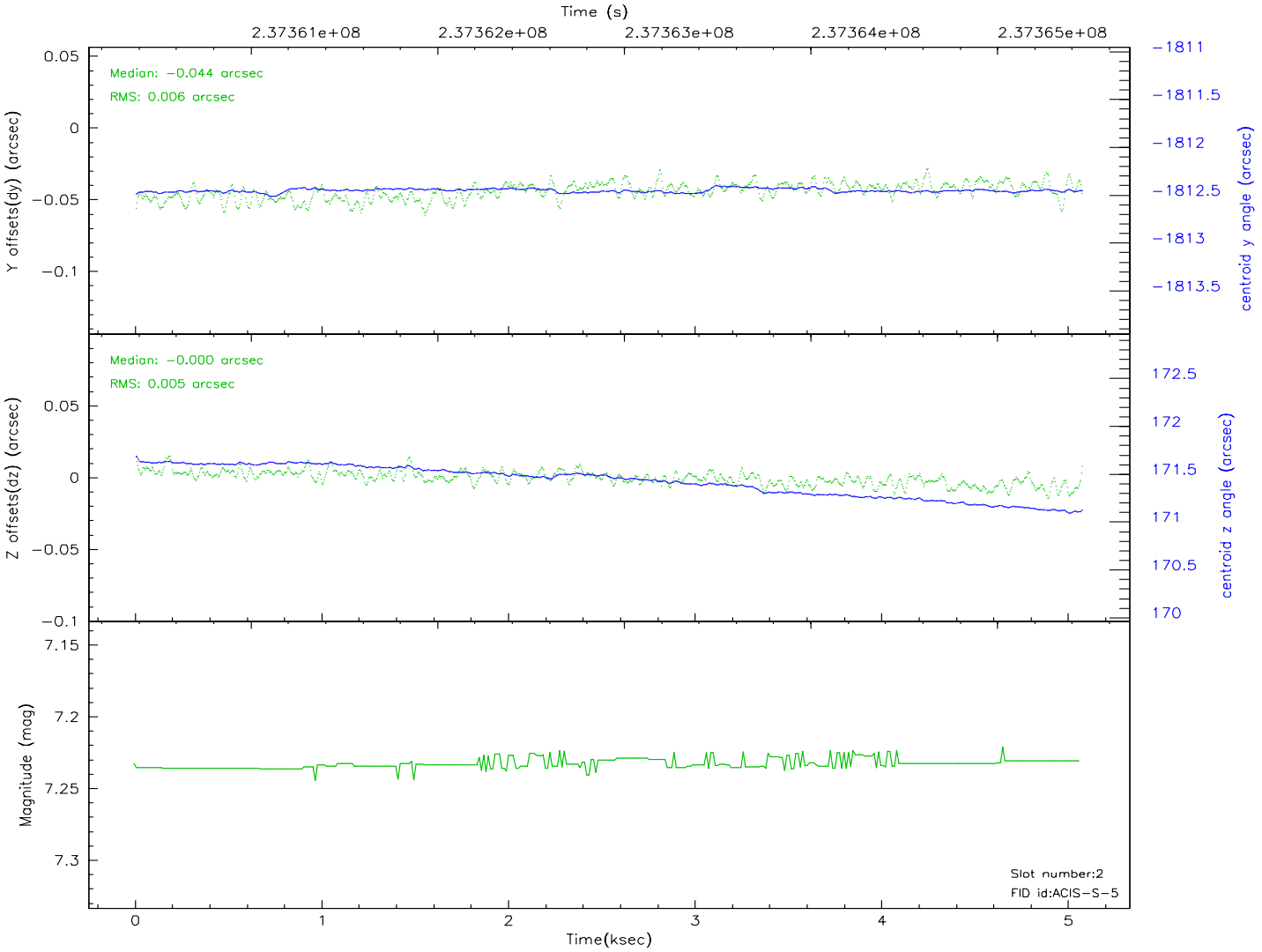

Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.066 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:ACIS-S-4


Time (s)
Median: 0.060 arcsec
RMS: 0.004 arcsec
Y offsets(dy) (arcsec)
Median: 0.028 arcsec
RMS: 0.003 arcsec
Z offsets(dz) (arcsec)
centroid y angle (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:1
FID id:ACIS-S-4
Time(ksec)

2.5.3 Slot 2


Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:ACIS-S-5


Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.044 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:ACIS-S-5


Time (s)
Median: −0.044 arcsec
RMS: 0.006 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.000 arcsec
RMS: 0.005 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:2
FID id:ACIS-S-5
Time(ksec)

A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.06825

A.2 Comments