V&V Reference Report
L2 ASCDS Version : 8.4.5

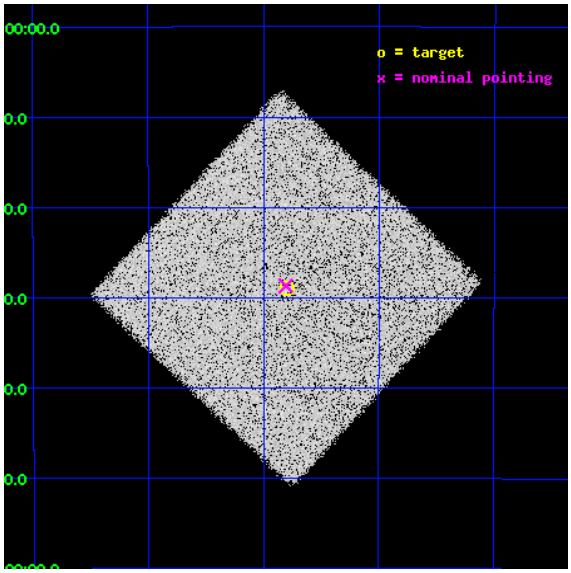
Observation 719 - L2 Version 6
Chandra X-Ray Center

L2 Processing Date : Aug 24 2012

Contents

1 Front

seq_num	400086	Sequence number
obs_id	719	Observation id
title	BRIGHT LMXB GLOBULAR CLUSTER SURVEY: NATURE, MASSES AND CLUSTER DYNAMICS	Proposal title
observer	PROFESSOR JONATHAN GRINDLAY	Principal investigator
object	TERZAN 1	Source name
ra_targ	263.9492	Observer's specified target RA [deg]
dec_targ	-30.4828	Observer's specified target Dec [deg]
ra_nom	263.95160850815	Nominal RA [deg]
dec_nom	-30.478255034634	Nominal Dec [deg]
roll_nom	88.18549250606	Nominal Roll [deg]
revision	6	Processing version of data
ontime	3665.6563839018	[s]
livetime	3645.3882432001	Ontime multiplied by DTCOR
l2events	99714	Number of level 2 events

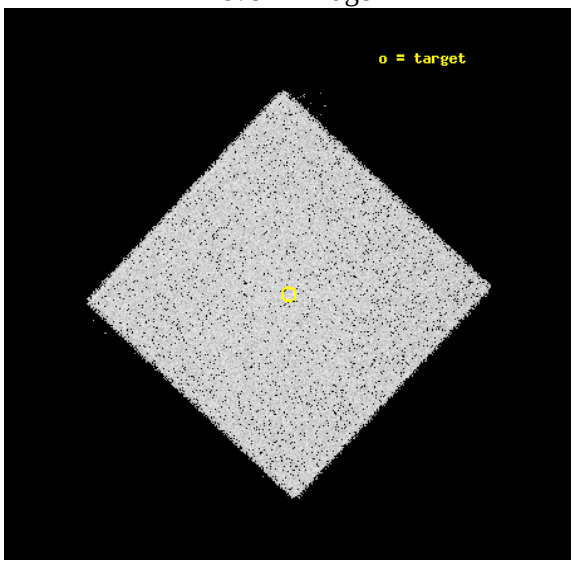


2 OBI

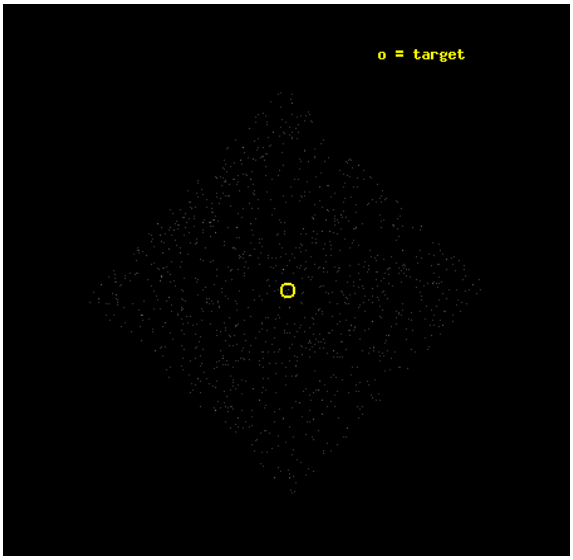
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	1	Obi number
ascdsver	8.4.5	Processing system revision
caldbver	4.5.1.1	
date	2012-08-24T04:42:53	Date and time of file creation
revision	6	Processing version of data

sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ontime	3665.6563839018	[s]
l1events	165073	Number of level 1 events

2.1.3 Events

Level 1 Events

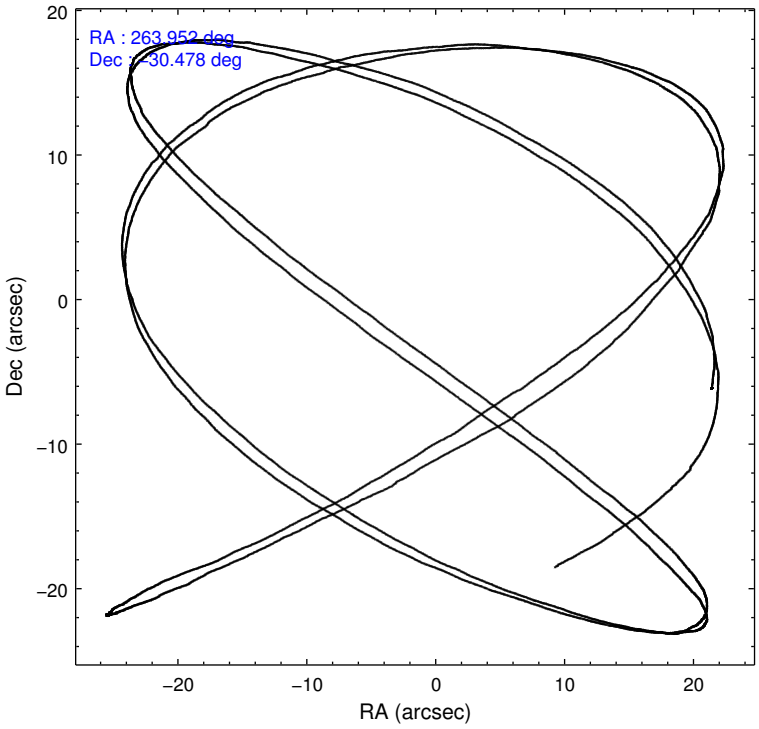
	segment 0
level 1 events	165073
rejected events	13364
rejected %	8%

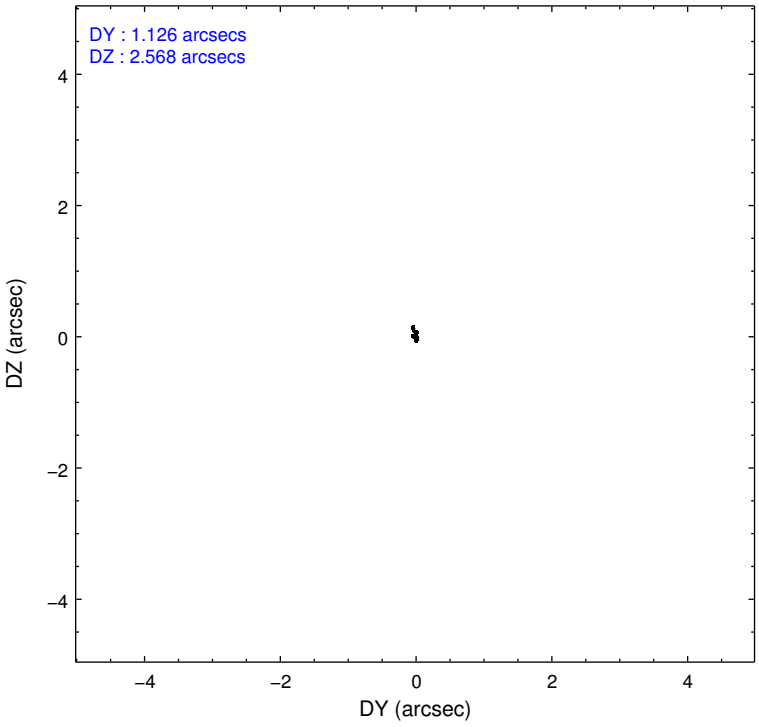
2.2 Compared Parameters

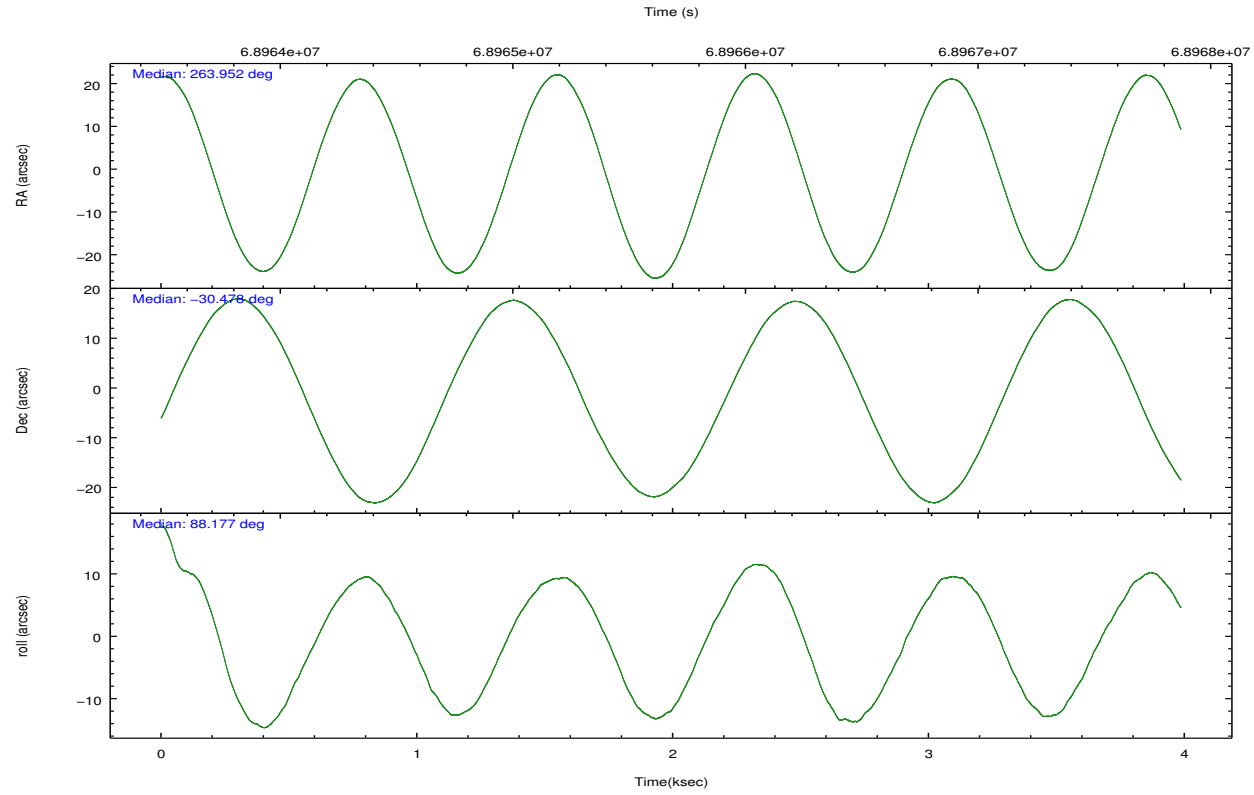
Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	263.9516085081481	263.9516085081481
[deg] Pointing Dec	-30.47825503463377	-30.47825503463379
[deg] Pointing Roll	88.1854925060605	88.1854925060605
[mm] SIM focus pos	-1.0388663562	-1.0388663562
[mm] SIM defocus	0.00142623215544524	0.00142623215544524
[mm] SIM translation stage pos	126.98549431	126.98549431
[mm] SIM translation stage offset	-4.712205736723263e-09	-4.712205736723263e-09
[s] Observation start time (MET)	68963659.22847877	68963659.22847877
Observation start date	2000-03-09T04:41:50	2000-03-09T04:34:19
[s] Observation end time (MET)	68967884.27863309	68967884.27863309
Observation end date	2000-03-09T05:40:10	2000-03-09T05:44:44

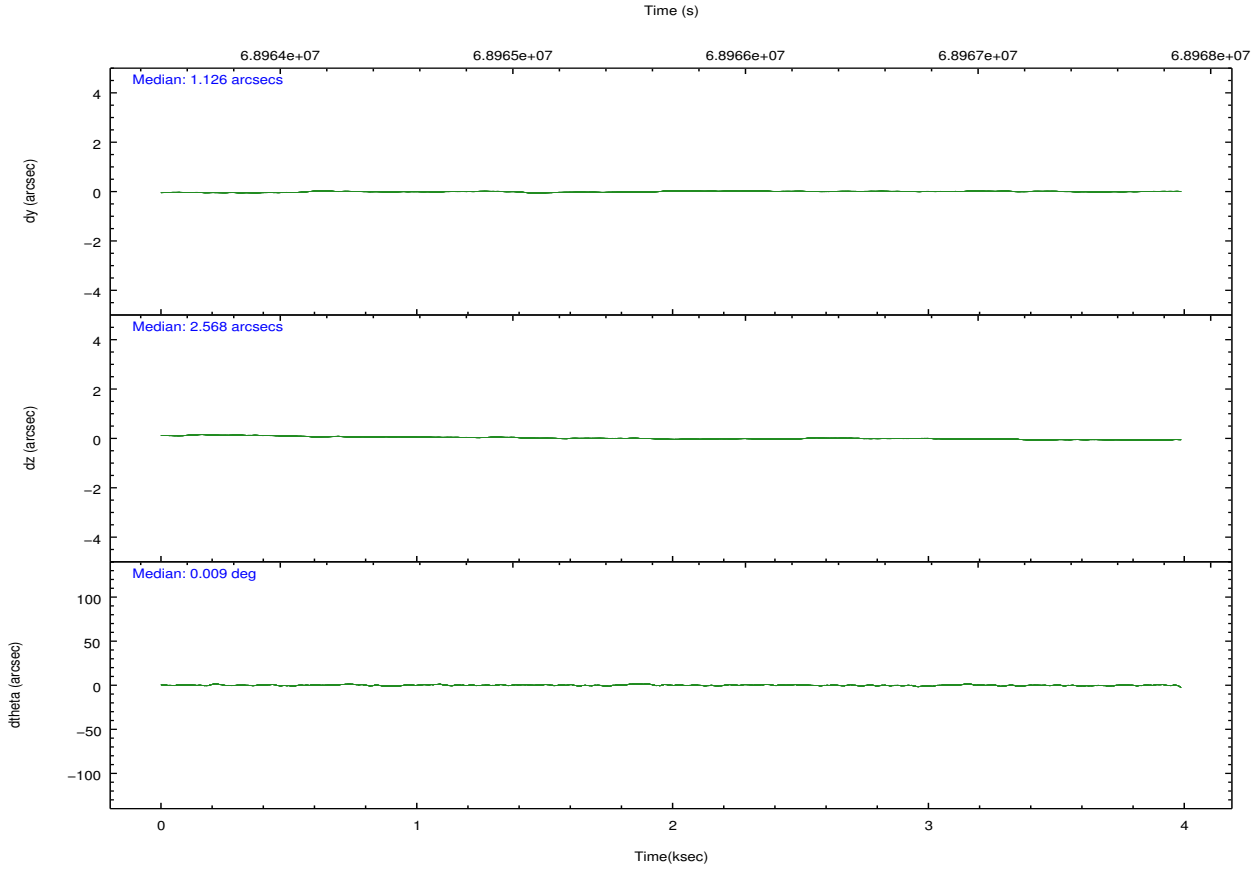
Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE

2.3 Aspect


RA : 263.952 deg
Dec : -30.478 deg
20
10
0
−10
−20
Dec (arcsec)
−20
−10
0
10
20
RA (arcsec)


DY : 1.126 arcsecs
DZ : 2.568 arcsecs
4
2
0
−2
−4
DZ (arcsec)
−4
−2
0
2
4
DY (arcsec)


Time (s)
6.8964e+07
6.8965e+07
6.8966e+07
6.8967e+07
6.8968e+07
Median: 263.952 deg
RA (arcsec)
Median: −30.478 deg
Dec (arcsec)
Median: 88.177 deg
roll (arcsec)
Time(ksec)

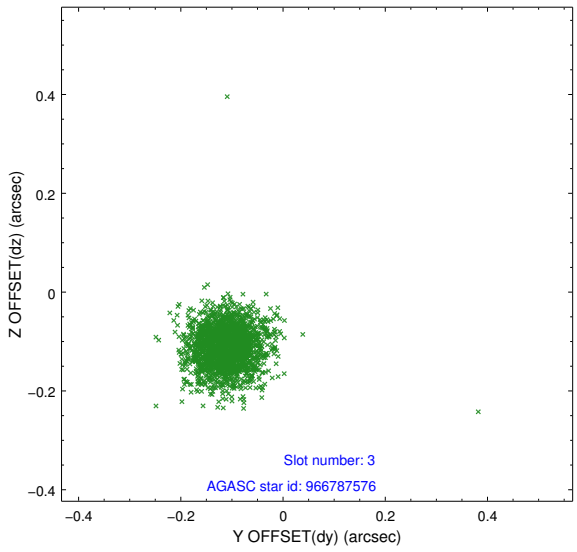

Time (s)
6.8964e+07
6.8965e+07
6.8966e+07
6.8967e+07
6.8968e+07
Median: 1.126 arcsecs
dy (arcsec)
Median: 2.568 arcsecs
dz (arcsec)
Median: 0.009 deg
dtheta (arcsec)
Time(ksec)

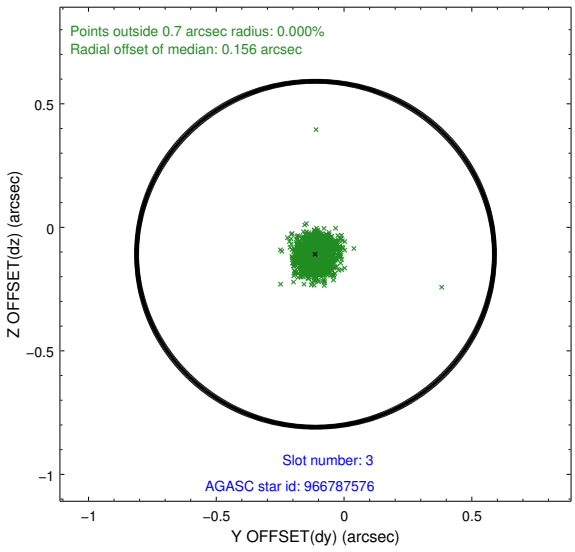
Slot Statistics

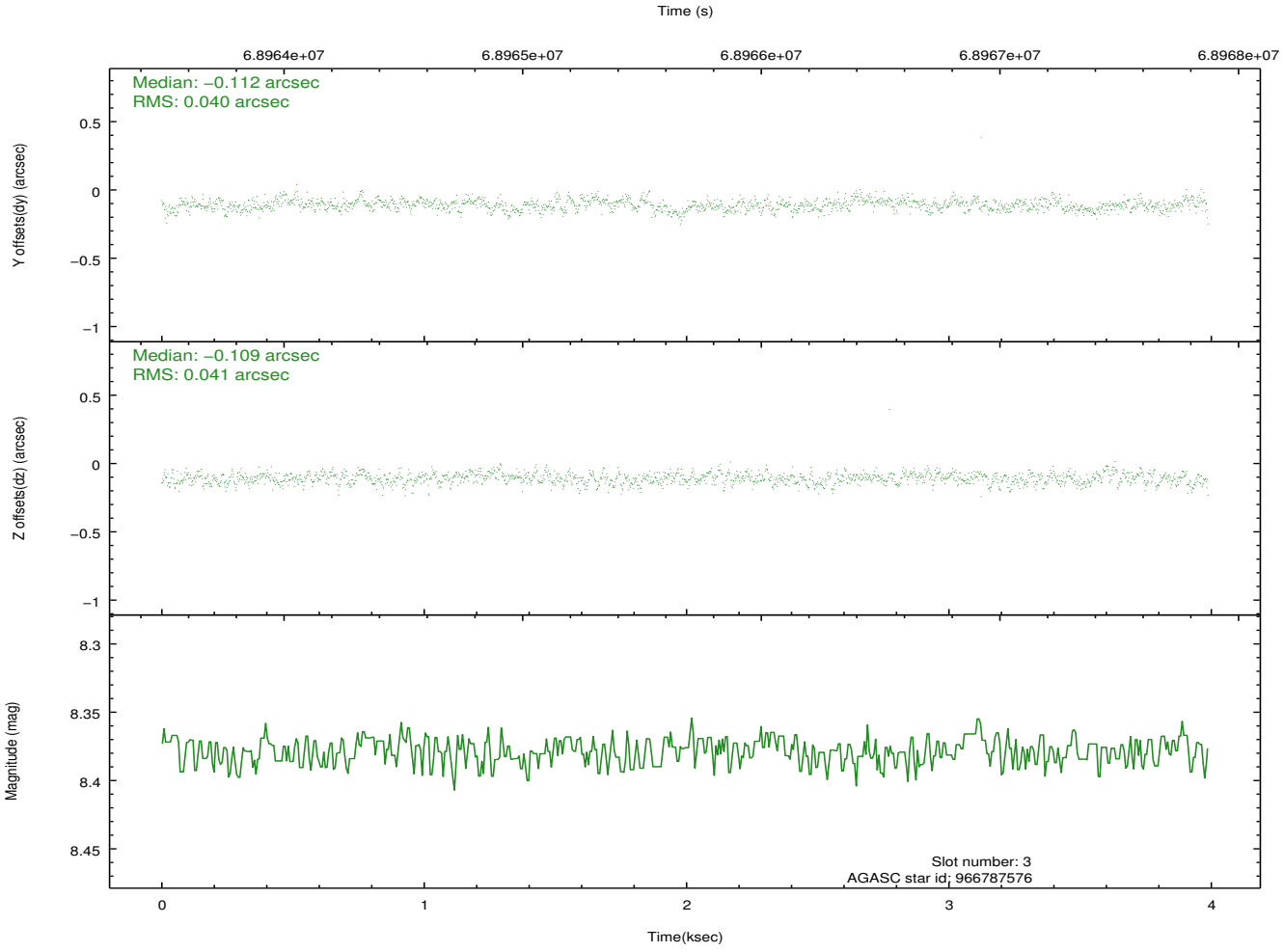
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	973	0.066	0.002	0.008	0.017	0.000000	0.000000	-756.50	-1290.34
1	FID	HRC-I-3	7.04	973	0.035	-0.028	0.007	0.013	0.000000	0.000000	-1185.76	1012.88
2	FID	HRC-I-4	6.98	973	0.012	-0.063	0.006	0.012	0.000000	0.000000	1285.05	1012.78
3	GUIDE	966787576	8.38	1946	-0.112	-0.109	0.058	0.096	263.799240	-30.200030	1070.50	554.12
4	GUIDE	966791280	8.82	1944	-0.221	0.350	0.096	0.148	264.697563	-30.131393	1394.96	-2233.31
5	GUIDE	966792224	9.29	1946	0.224	-0.146	0.097	0.154	263.361234	-31.047299	-2022.36	1807.09
6	GUIDE	966787088	9.64	1945	0.222	-0.273	0.112	0.183	263.274822	-30.999991	-1863.48	2081.55
7	GUIDE	966789840	9.72	1944	-0.113	0.180	0.111	0.178	264.484364	-30.044920	1688.46	-1561.18

2.4 Star Slots

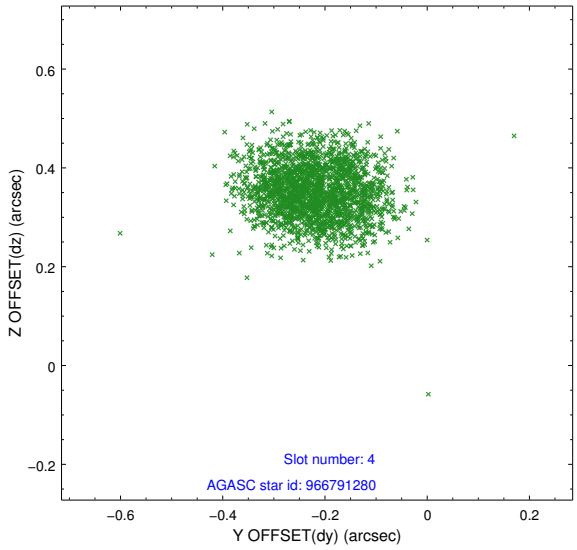
2.4.1 Slot 3

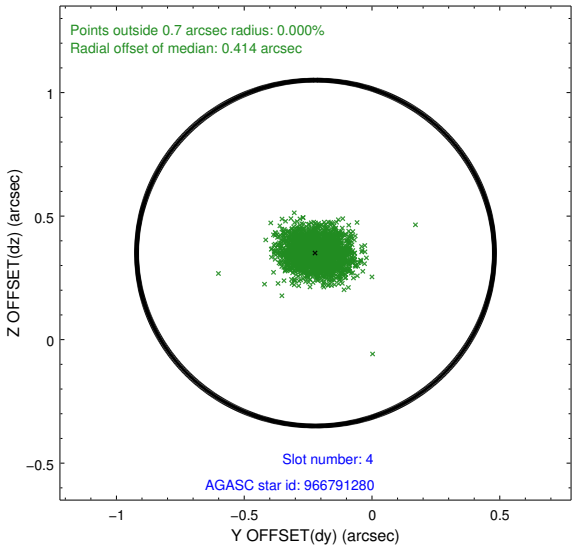


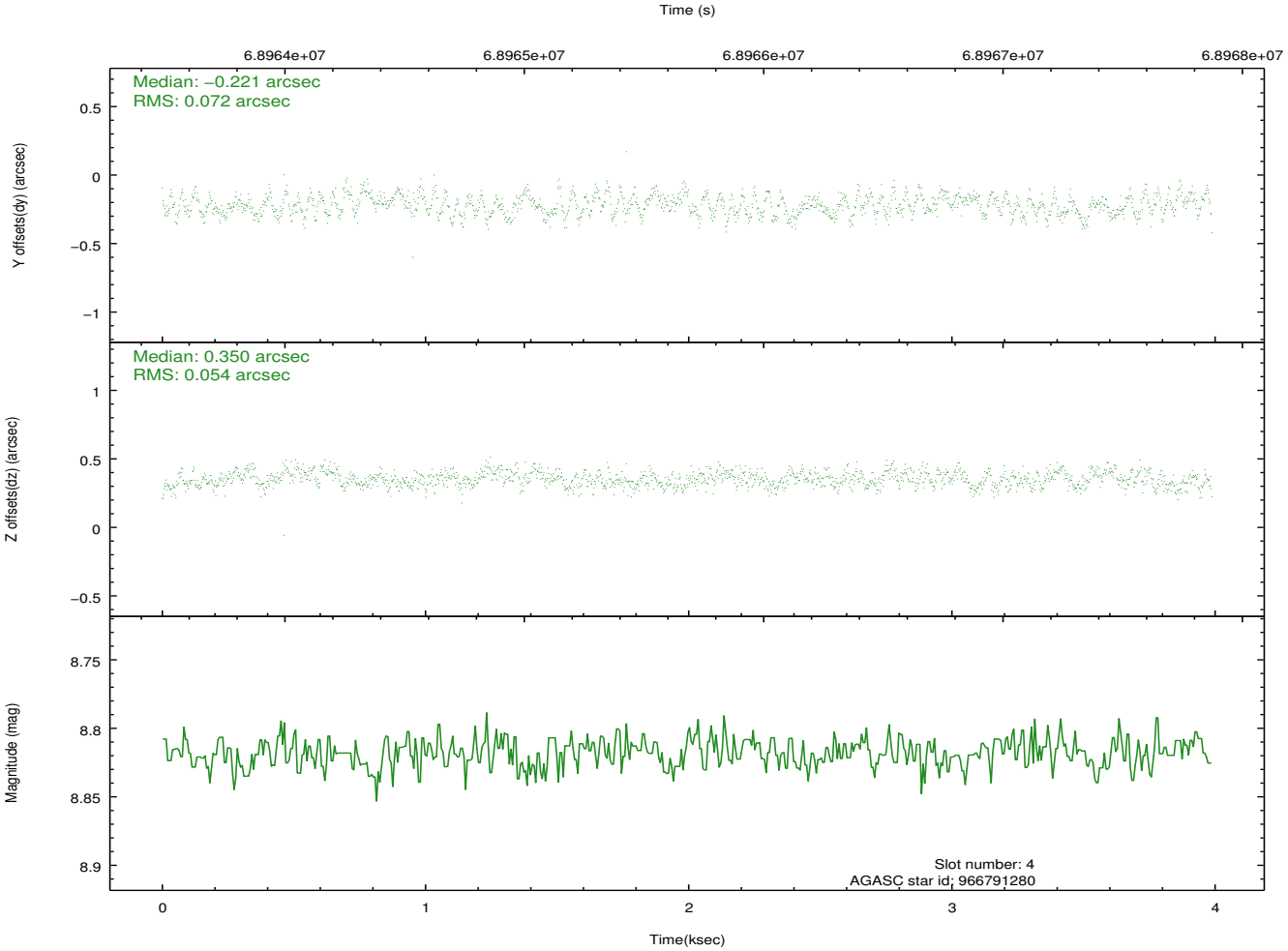




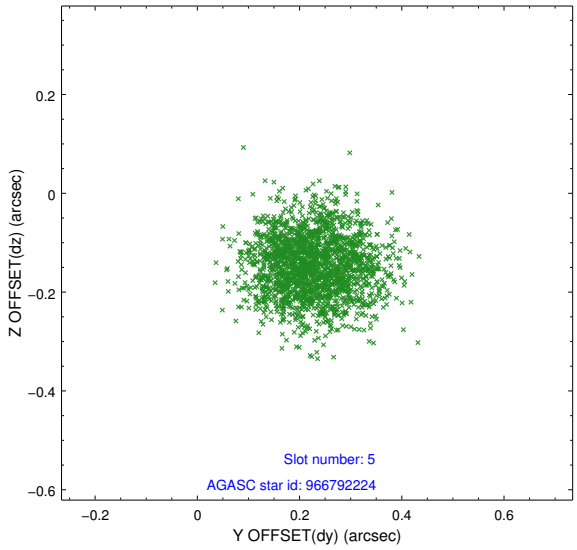
2.4.2 Slot 4

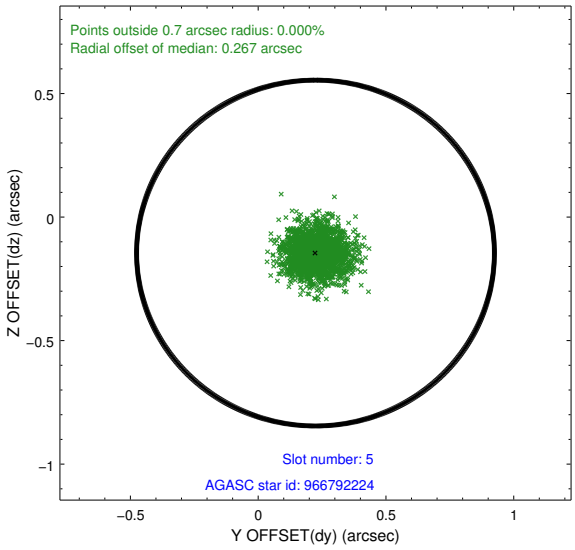

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 4
AGASC star id: 966791280

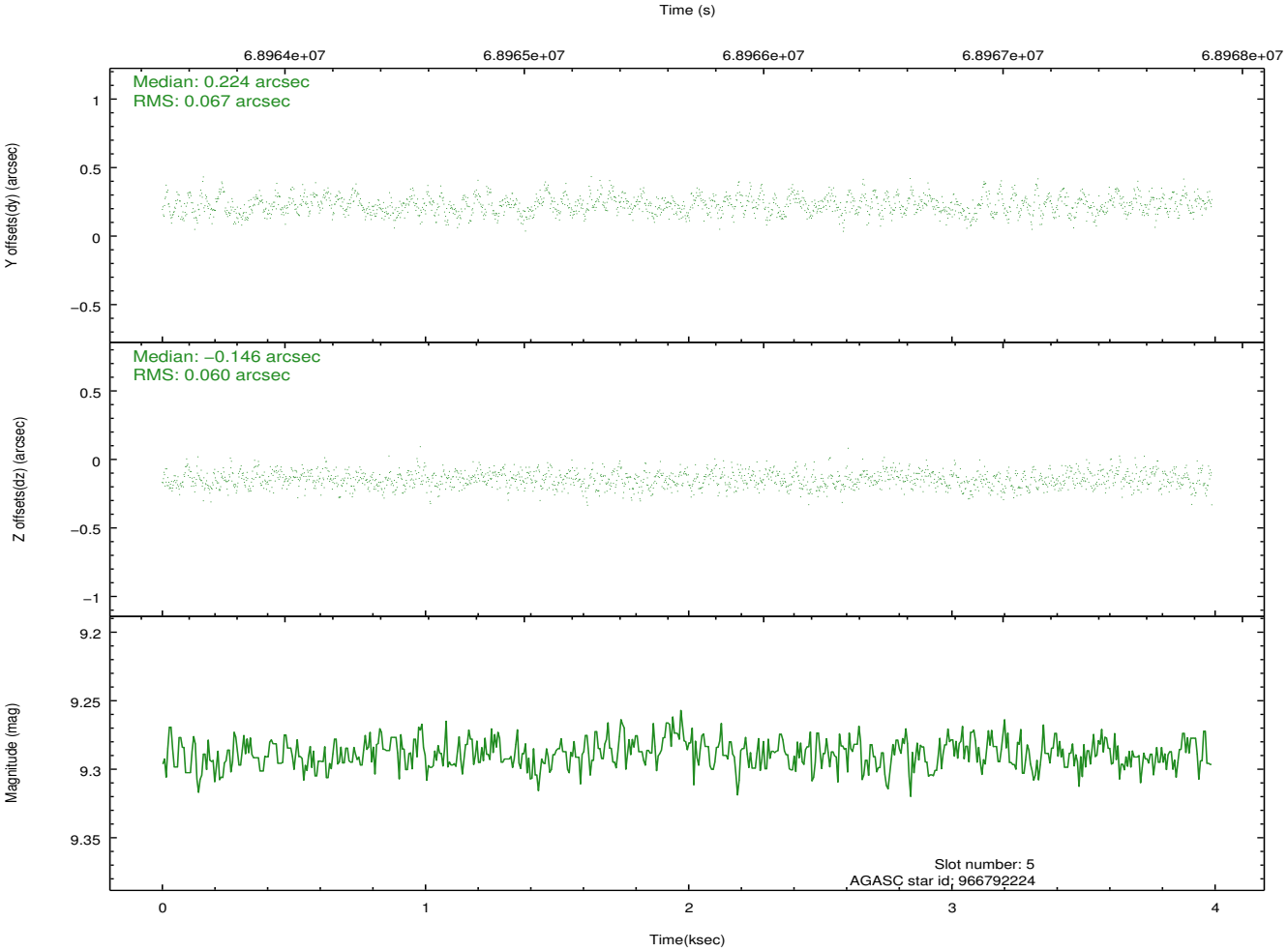

Points outside 0.7 arcsec radius: 0.000%
Radial offset of median: 0.414 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 4
AGASC star id: 966791280


Time (s)
6.8964e+07
6.8965e+07
6.8966e+07
6.8967e+07
6.8968e+07
Median: –0.221 arcsec
RMS: 0.072 arcsec
Y offsets(dy) (arcsec)
Median: 0.350 arcsec
RMS: 0.054 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number: 4
AGASC star id: 966791280
Time(ksec)

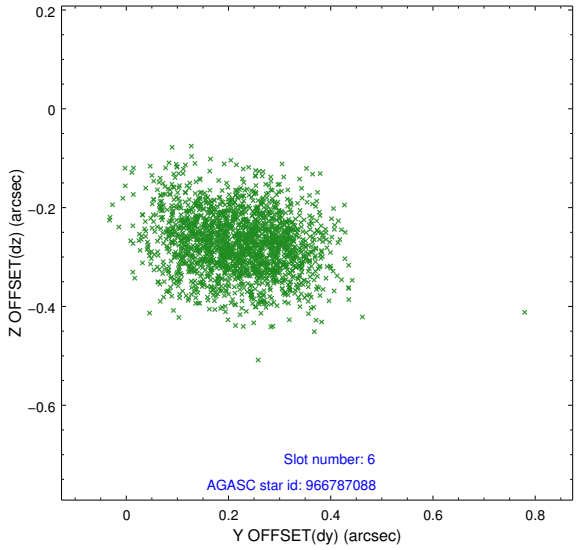
2.4.3 Slot 5

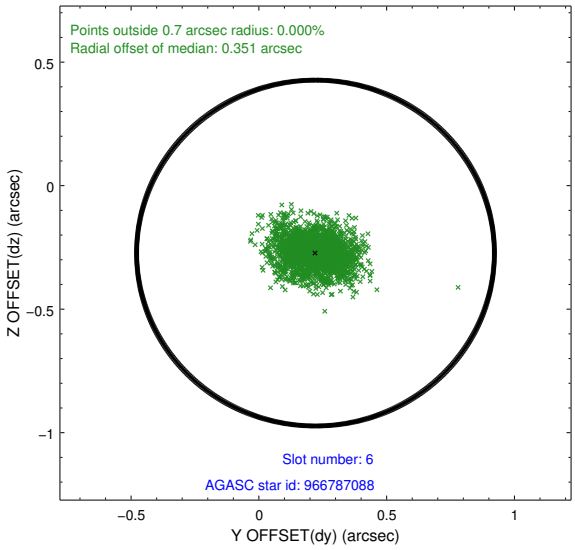

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 5
AGASC star id: 966792224

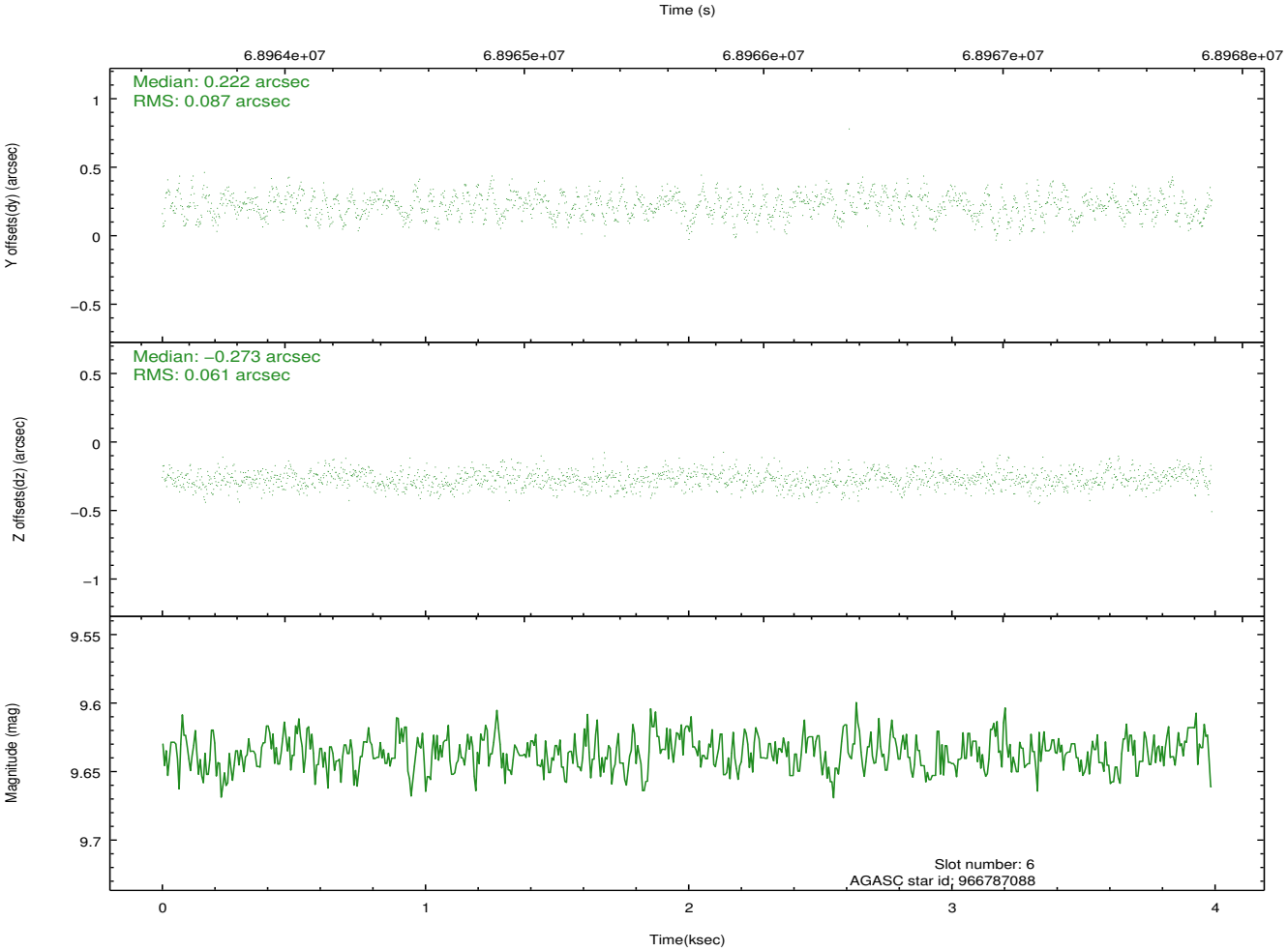

Points outside 0.7 arcsec radius: 0.000%
Radial offset of median: 0.267 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 5
AGASC star id: 966792224


Time (s)
Median: 0.224 arcsec
RMS: 0.067 arcsec
Y offsets(dy) (arcsec)
Median: −0.146 arcsec
RMS: 0.060 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number: 5
AGASC star id: 966792224
Time(ksec)

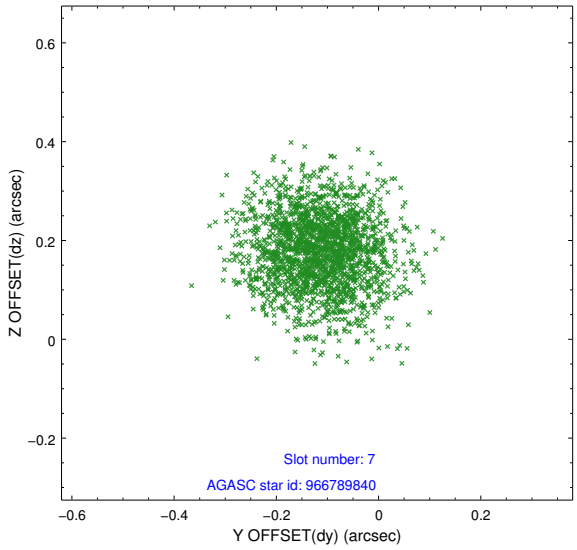
2.4.4 Slot 6

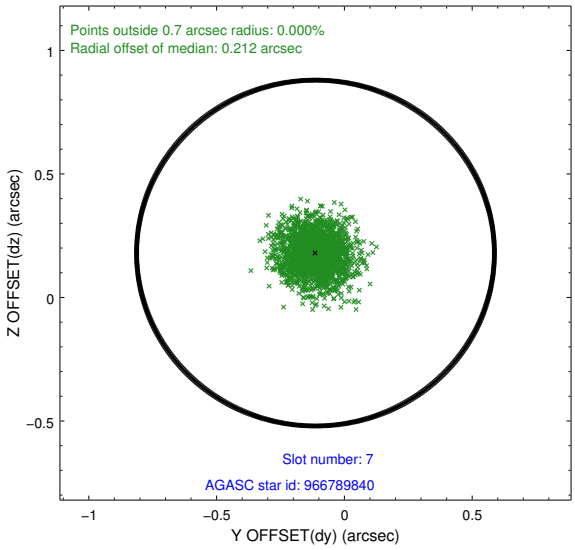

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 6
AGASC star id: 966787088

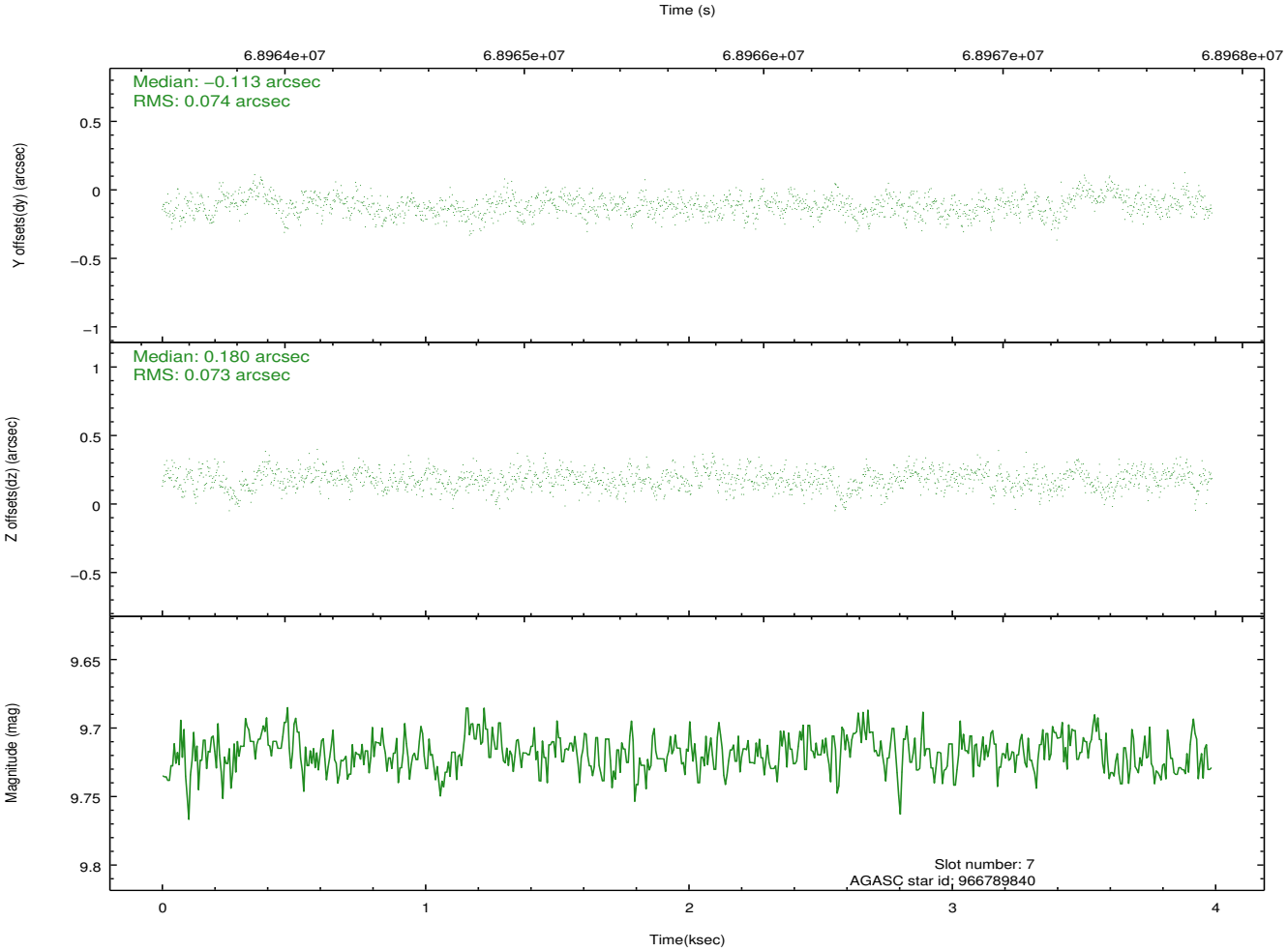

Points outside 0.7 arcsec radius: 0.000%
Radial offset of median: 0.351 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 6
AGASC star id: 966787088


Time (s)
Median: 0.222 arcsec
RMS: 0.087 arcsec
Y offsets(dy) (arcsec)
Median: −0.273 arcsec
RMS: 0.061 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number: 6
AGASC star id: 966787088
Time(ksec)

2.4.5 Slot 7

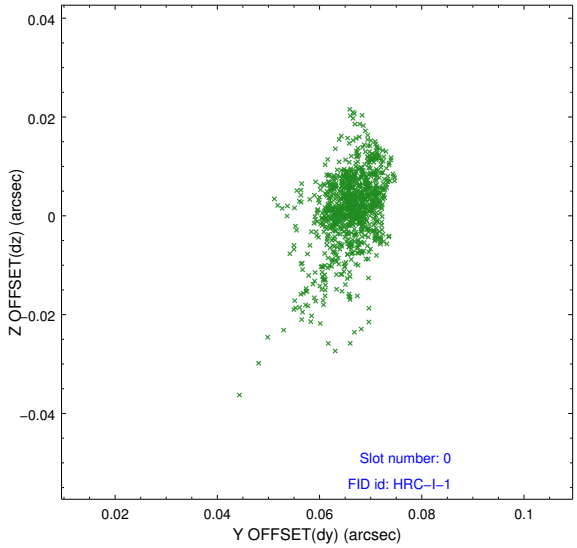

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 7
AGASC star id: 966789840

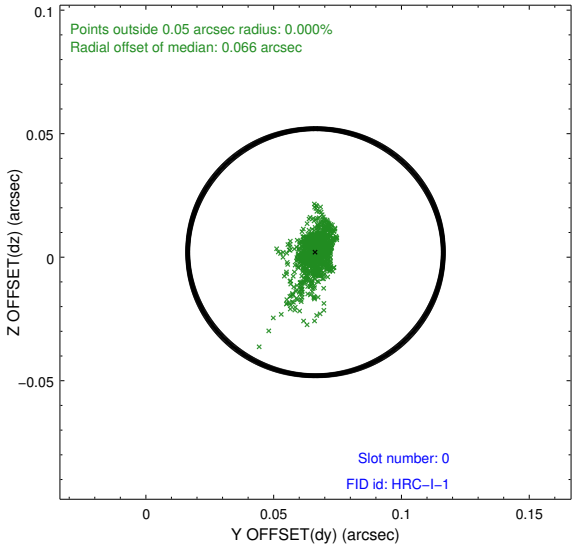

Points outside 0.7 arcsec radius: 0.000%
Radial offset of median: 0.212 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 7
AGASC star id: 966789840

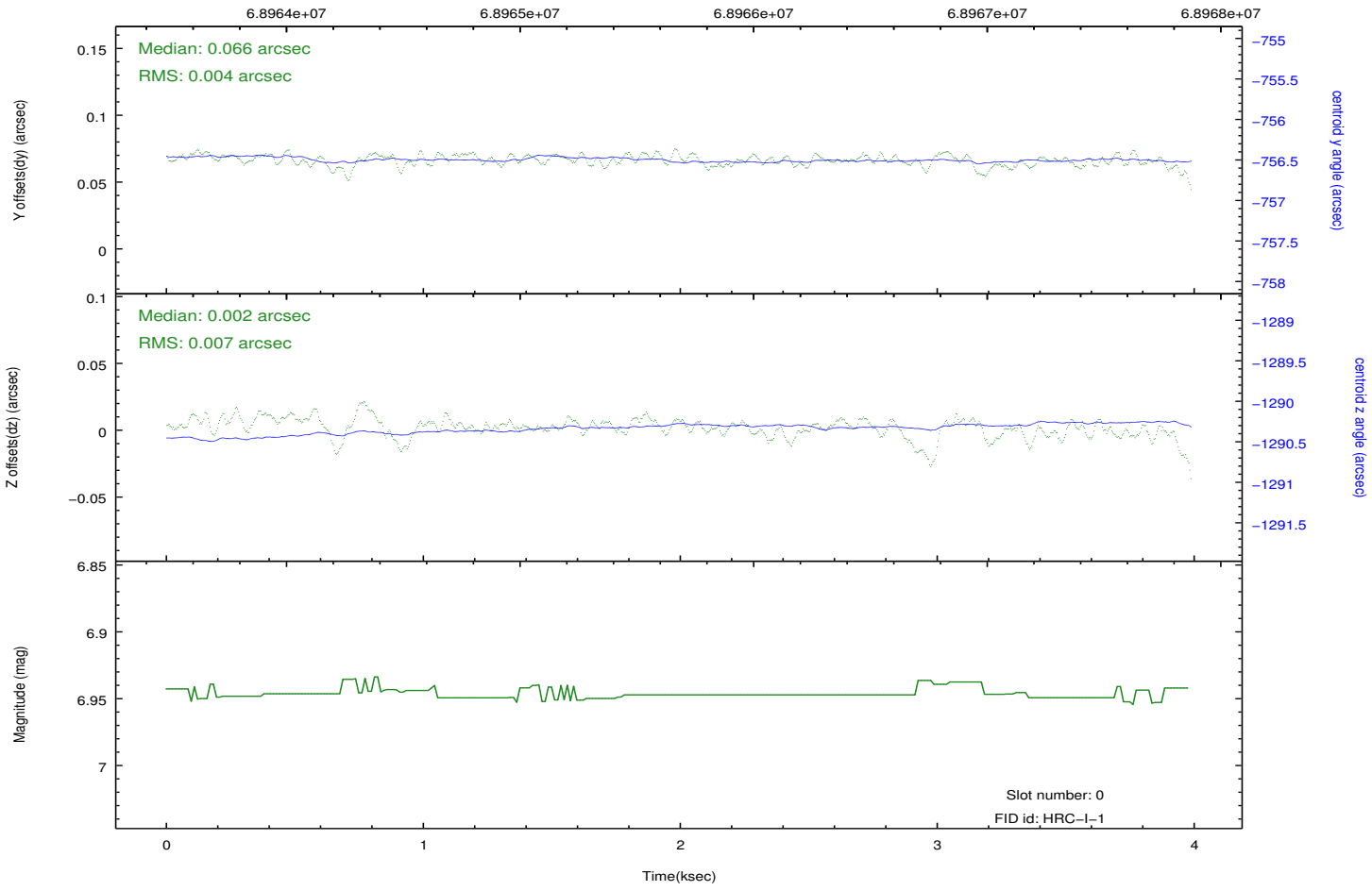

Time (s)
Median: –0.113 arcsec
RMS: 0.074 arcsec
Y offsets(dy) (arcsec)
Median: 0.180 arcsec
RMS: 0.073 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number: 7
AGASC star id: 966789840
Time(ksec)

2.5 FID Slots

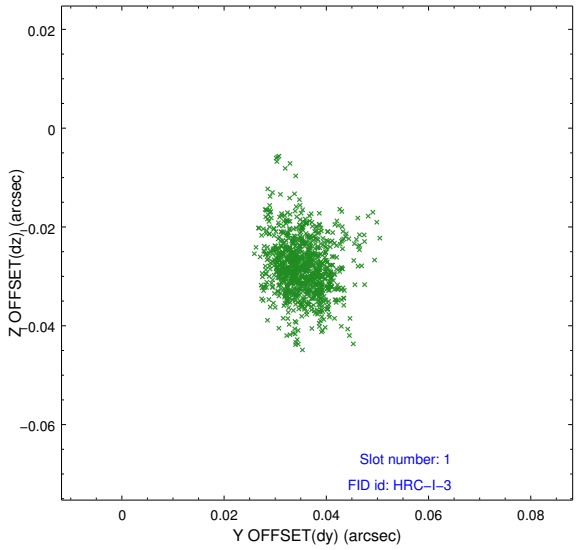
2.5.1 Slot 0

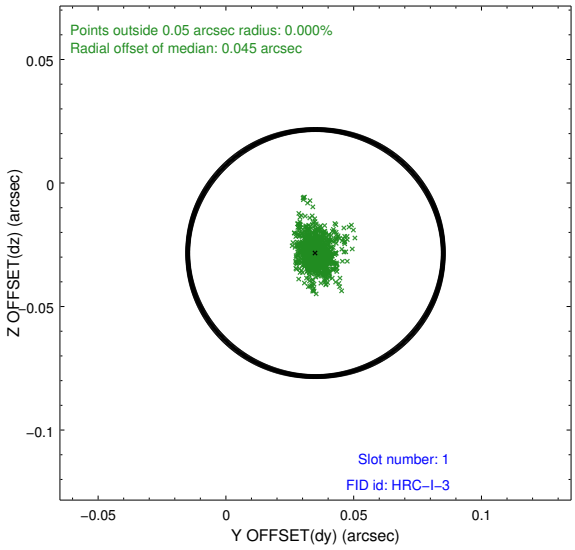


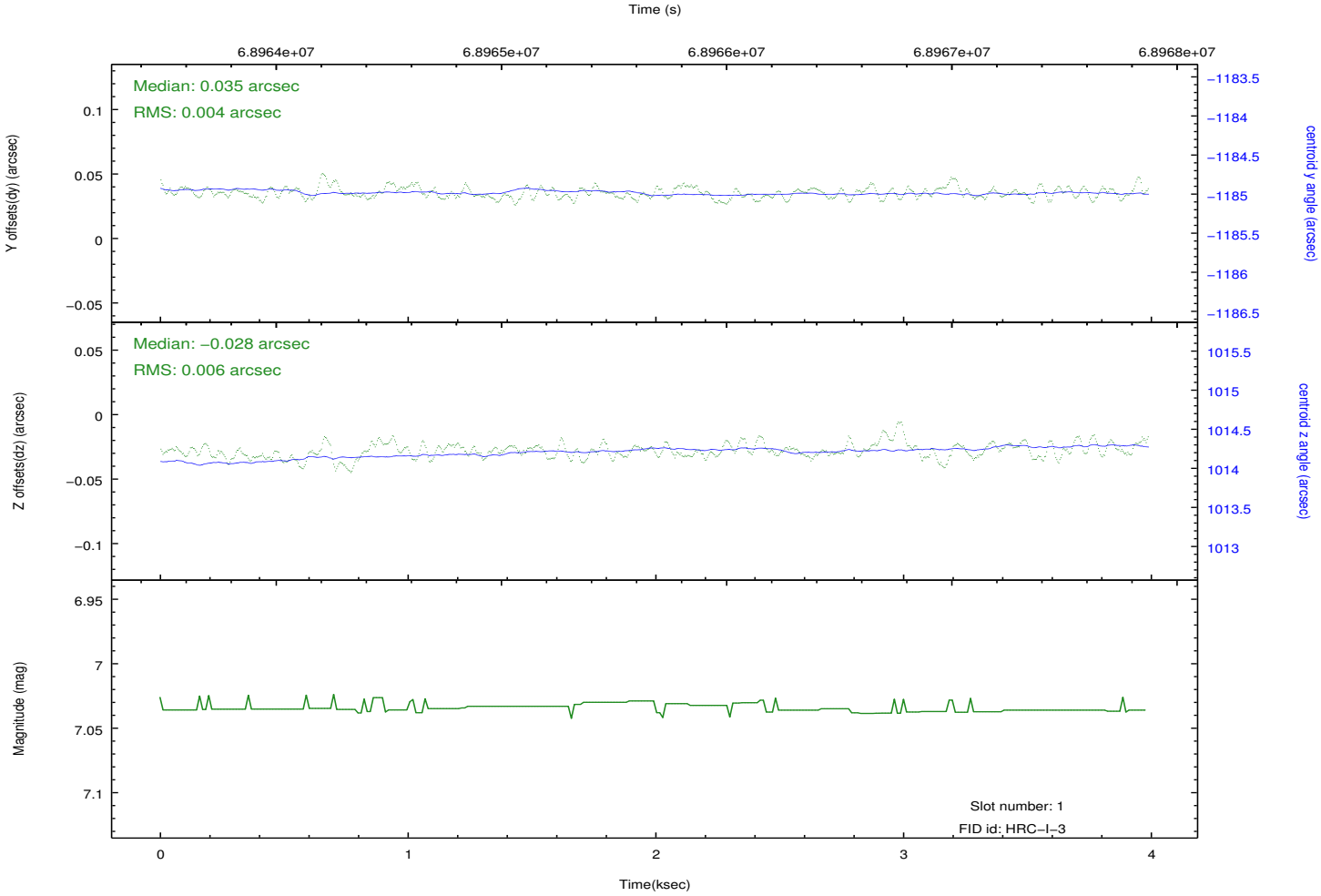




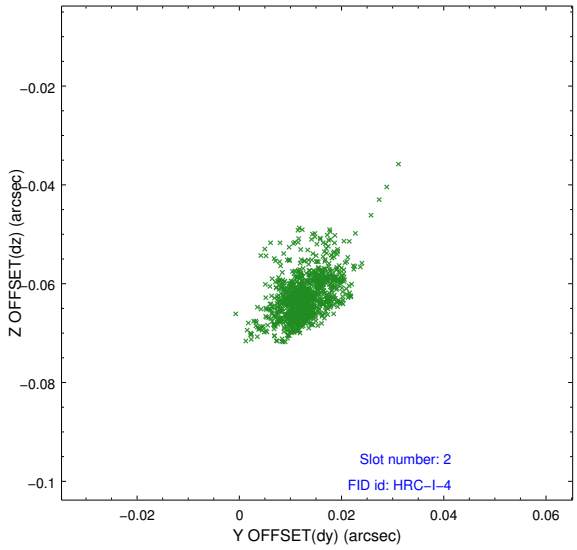
2.5.2 Slot 1

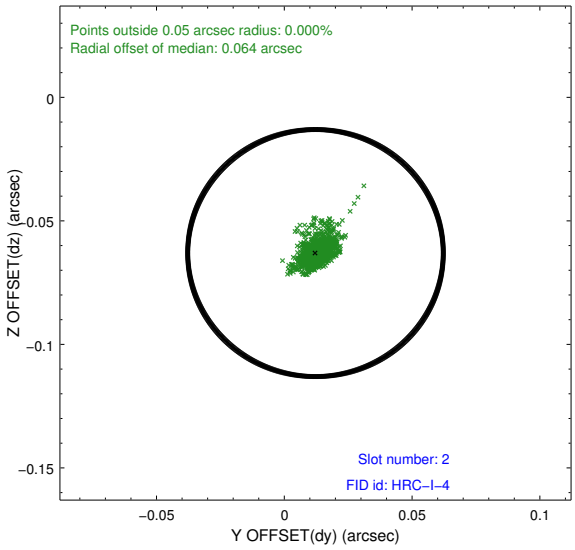

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 1
FID id: HRC−I−3

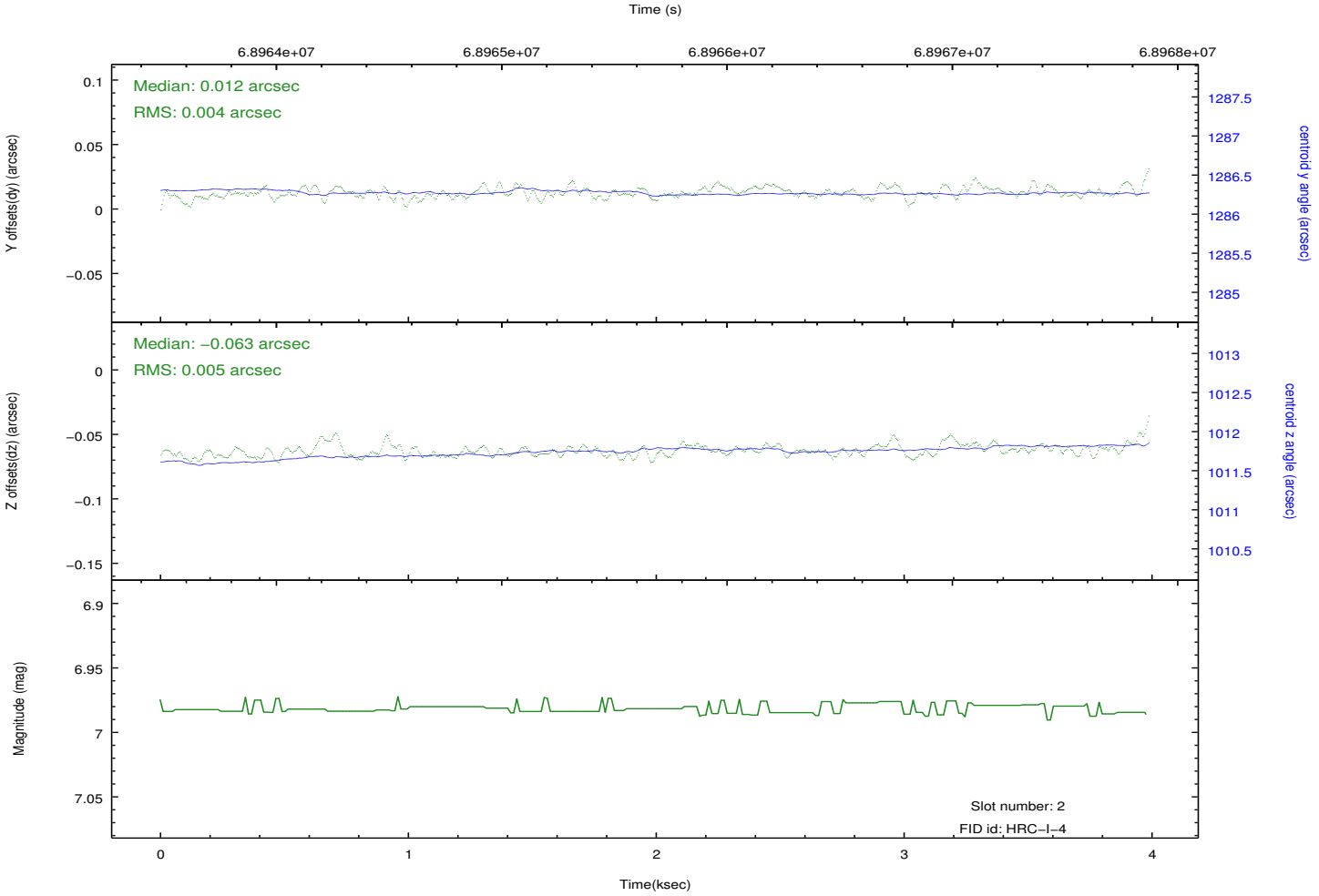

Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.045 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 1
FID id: HRC−I−3


Time (s)
Median: 0.035 arcsec
RMS: 0.004 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.028 arcsec
RMS: 0.006 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number: 1
FID id: HRC−I−3
Time(ksec)

2.5.3 Slot 2


Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 2
FID id: HRC−I−4


Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.064 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number: 2
FID id: HRC−I−4


Time (s)
Median: 0.012 arcsec
RMS: 0.004 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.063 arcsec
RMS: 0.005 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number: 2
FID id: HRC−I−4
Time(ksec)

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.86

A.2 Comments

Charge time for this obsid remains at original value of 3.86 ks, although with the current processing the charge time would have been 3.67 ksec.