V&V Reference Report
L2 ASCDS Version : 7.6.8.1

Observation 2888 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 20 2007

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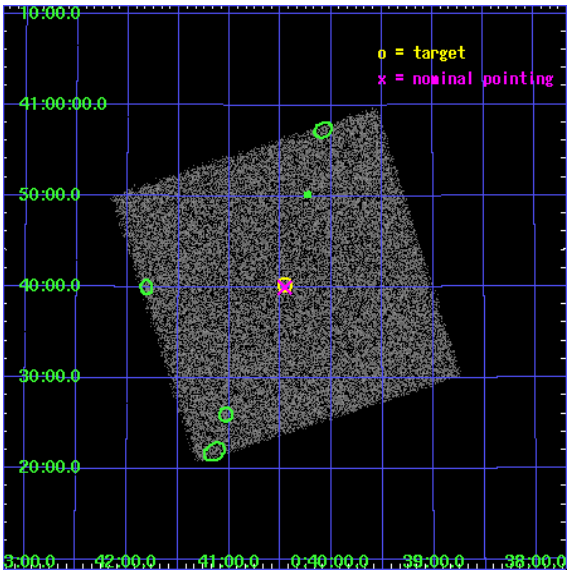
1 Front

seq_num	600225
obs_id	2888
title	SEARCHING FOR X-RAY TRANSIENTS IN M31 WITH CHANDRA AND HST
observer	Dr. MICHAEL GARCIA
object	M31-S2
ra_targ	10.112917
dec_targ	40.67
ra_nom	10.114066251285
dec_nom	40.666239872358
roll_nom	297.09392232453
revision	3
ontime	981.18128946424
livetime	974.03688792701
l2events	48905

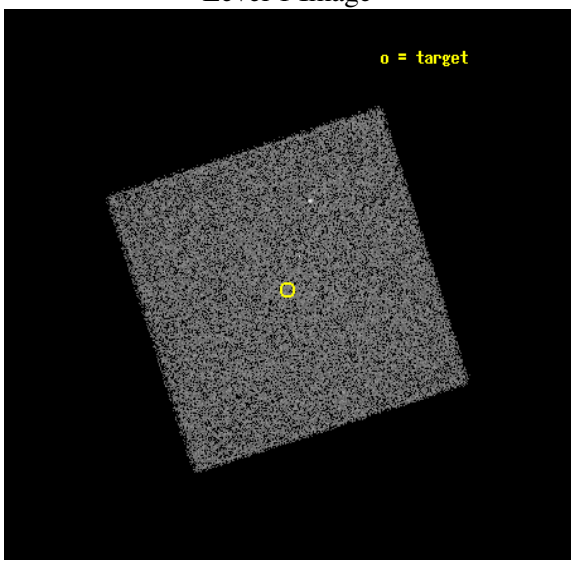


2 OBI

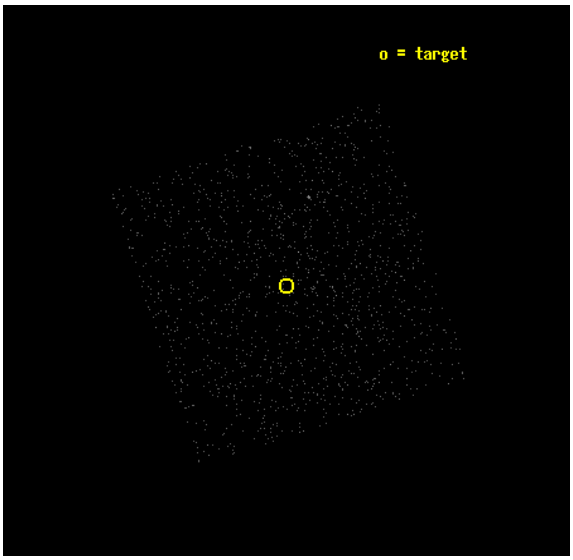
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-20T21:51:30
revision	3

sched_exp_time	1000.000000
ontime	981.18128946424
l1events	82491

2.1.3 Events

Level 1 Events

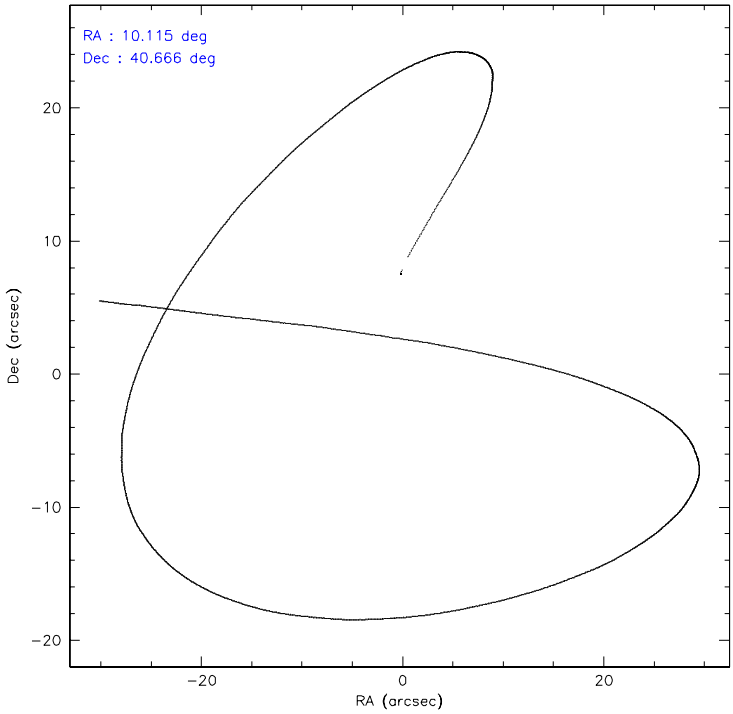
	segment 0
level 1 events	82491
rejected events	12664
rejected %	15%

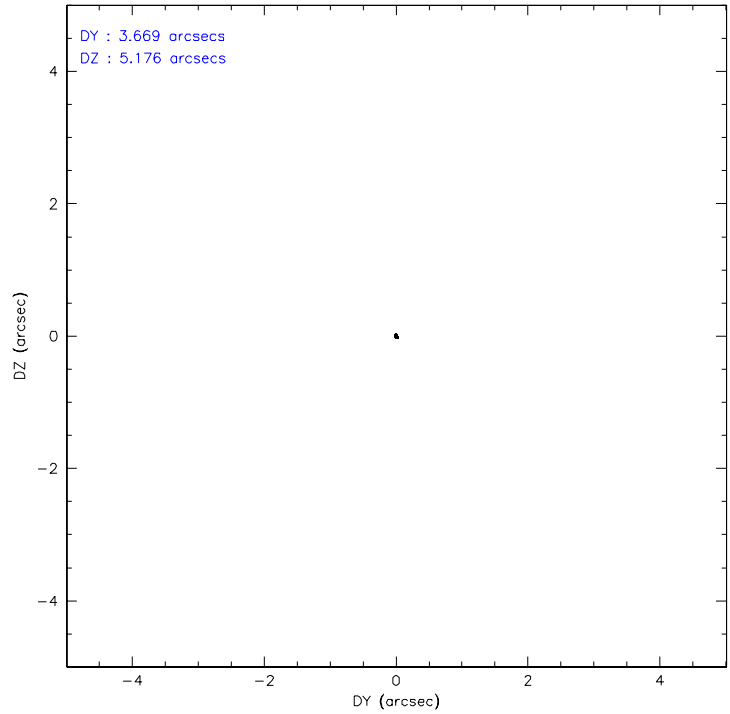
2.2 Compared Parameters

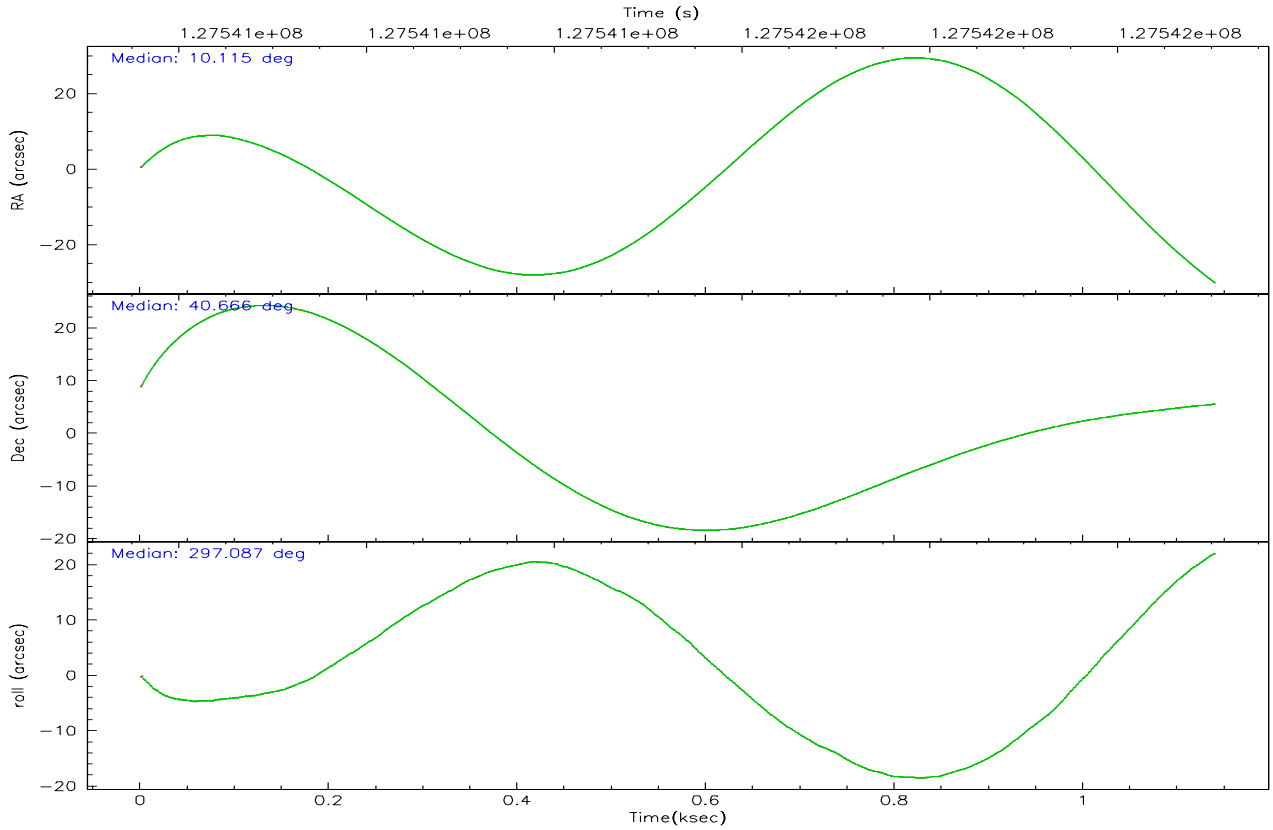
Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	10.082899	10.11406625128487
Pointing Dec	40.680038	40.66623987235828
Pointing Roll	297.209766	297.0939223245305
Window start time	127353664.184000	127353664.184000
Window stop time	127958464.184000	127958464.184000
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.00142626442057514 1
SIM translation stage pos (mm)	126.985494	126.9829799899862
SIM translation stage offset (mm)	0	0.002508901615314585
Observation start time	127541102.184000	127540043.72699
Observation start date	2002-01-16T04:03:58	2002-01-16T03:47:23
Observation end time	127542102.184000	127542236.20208
Observation end date	2002-01-16T04:20:38	2002-01-16T04:23:56

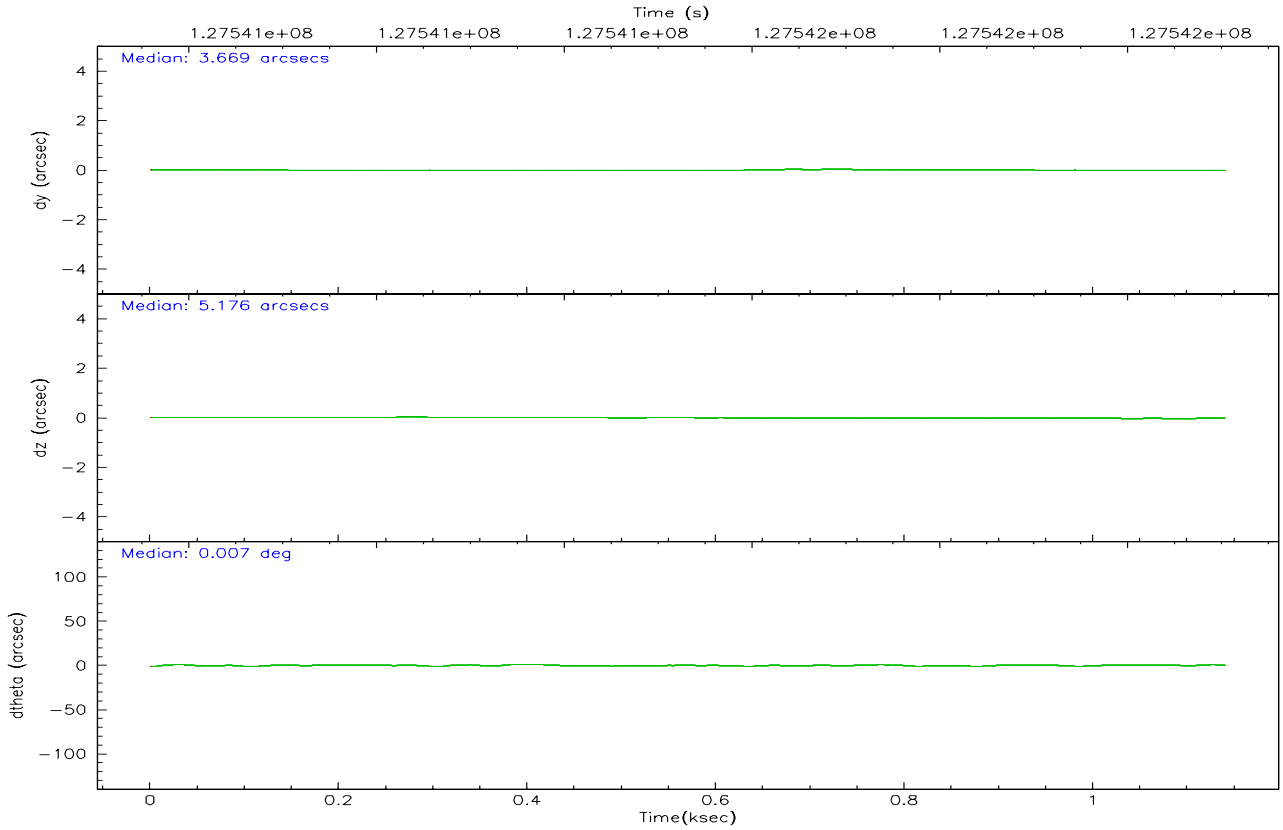
Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect


RA : 10.115 deg
Dec : 40.666 deg
Dec (arcsec)
RA (arcsec)
20
10
0
−10
−20
−20
0
20


DY : 3.669 arcsecs
DZ : 5.176 arcsecs
DZ (arcsec)
DY (arcsec)
4
2
0
−2
−4
−4
−2
0
2
4


Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: 10.115 deg
RA (arcsec)
Median: 40.666 deg
Dec (arcsec)
Median: 297.087 deg
roll (arcsec)
Time(ksec)

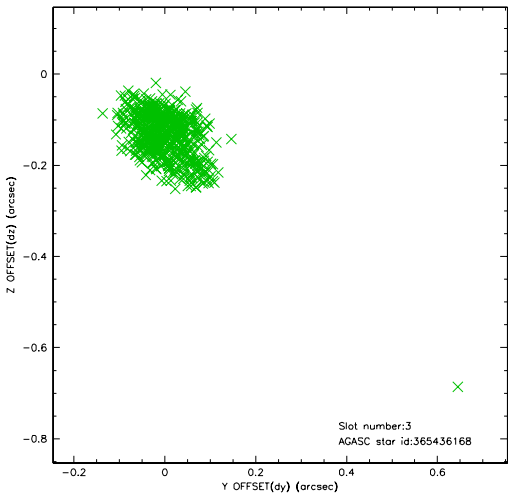

Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: 3.669 arcsecs
dy (arcsec)
Median: 5.176 arcsecs
dz (arcsec)
Median: 0.007 deg
dtheta (arcsec)
Time(ksec)

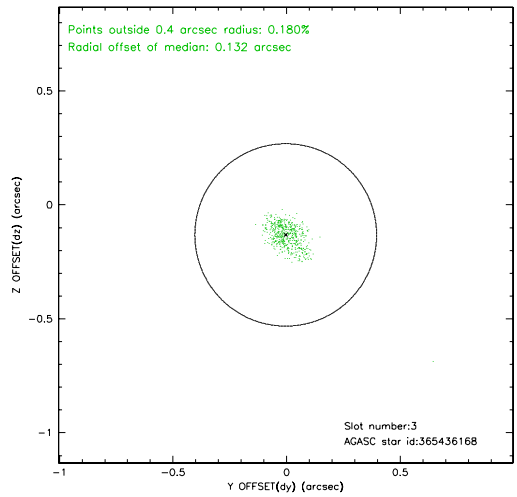
Slot Statistics

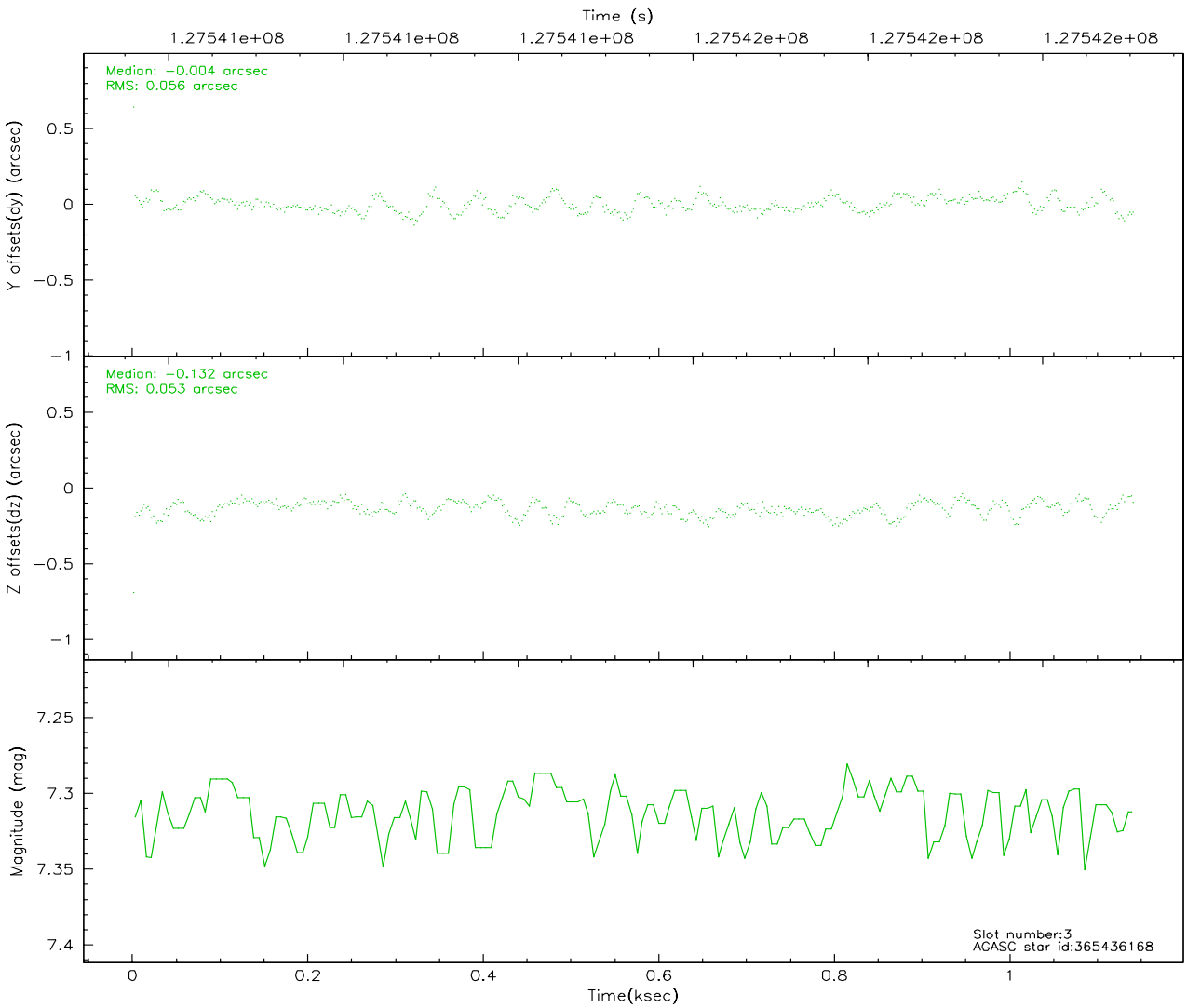
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	279	0.005	0.051	0.007	0.015	0.000000	0.000000	-759.13	-1292.94
1	FID	HRC-I-2	7.00	279	0.080	-0.054	0.006	0.012	0.000000	0.000000	850.86	-1299.20
2	FID	HRC-I-3	7.05	279	0.034	-0.087	0.006	0.013	0.000000	0.000000	-1184.59	1006.83
3	GUIDE	365436168	7.31	557	-0.004	-0.132	0.071	0.123	9.360006	40.332380	198.62	-2336.39
4	GUIDE	365431072	9.00	557	-0.126	0.033	0.072	0.122	9.376278	41.092224	-2203.20	-1030.84
5	GUIDE	365439720	8.47	557	0.052	-0.081	0.060	0.092	9.704623	40.431022	317.17	-1336.08
6	GUIDE	367139648	8.19	557	0.080	0.147	0.062	0.110	11.021290	40.433909	1951.74	1882.49
7	GUIDE	367139768	7.99	556	0.003	0.043	0.080	0.119	11.069715	40.685175	1204.81	2411.23

2.4 Star Slots

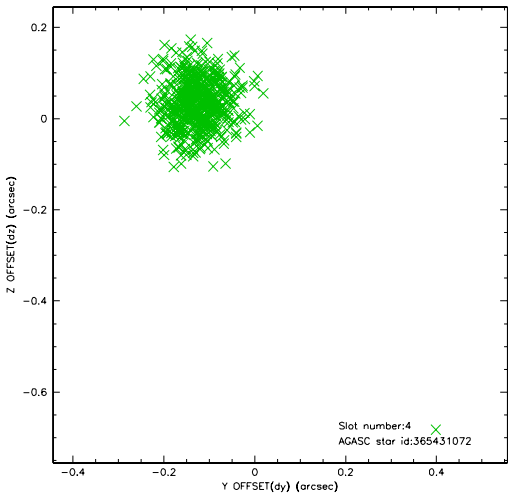
2.4.1 Slot 3

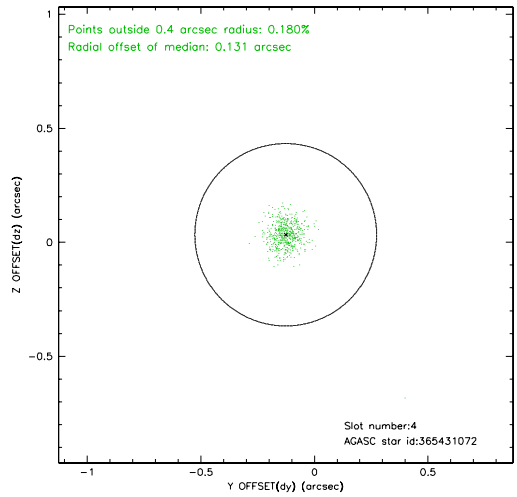


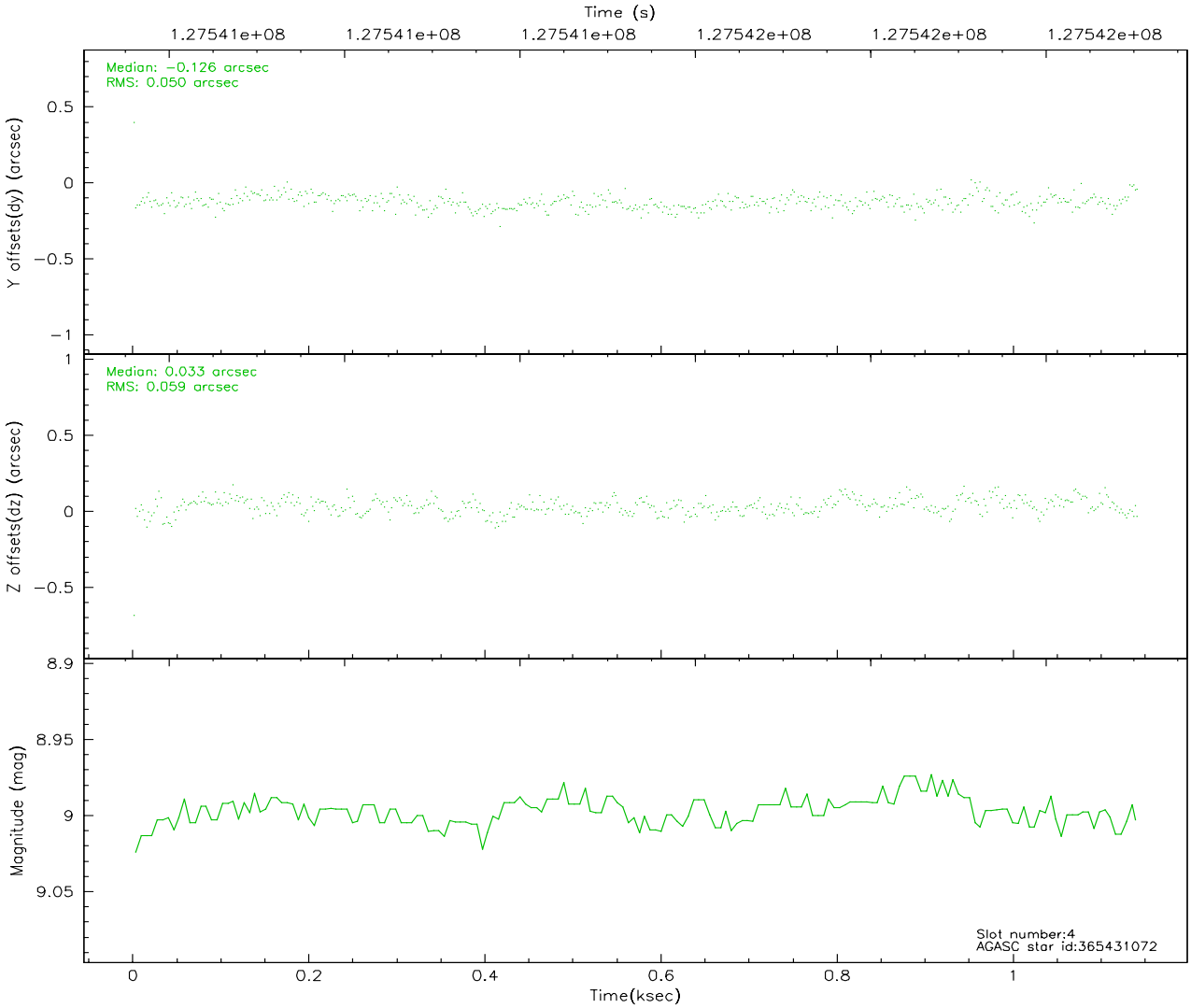




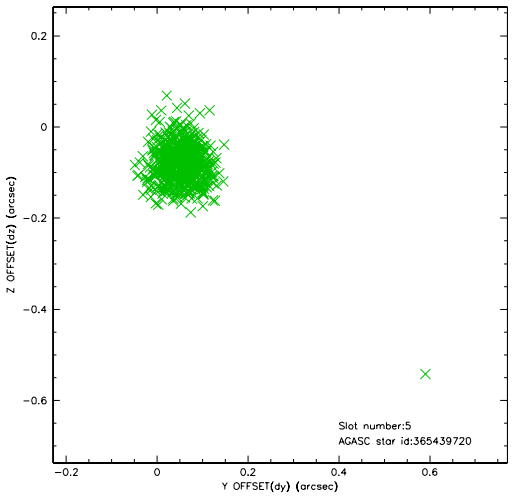
2.4.2 Slot 4

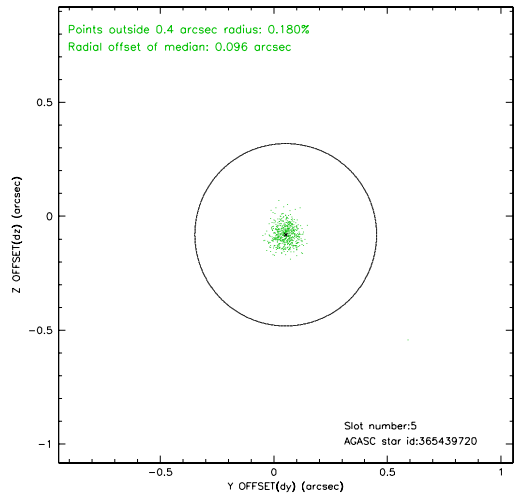

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:365431072

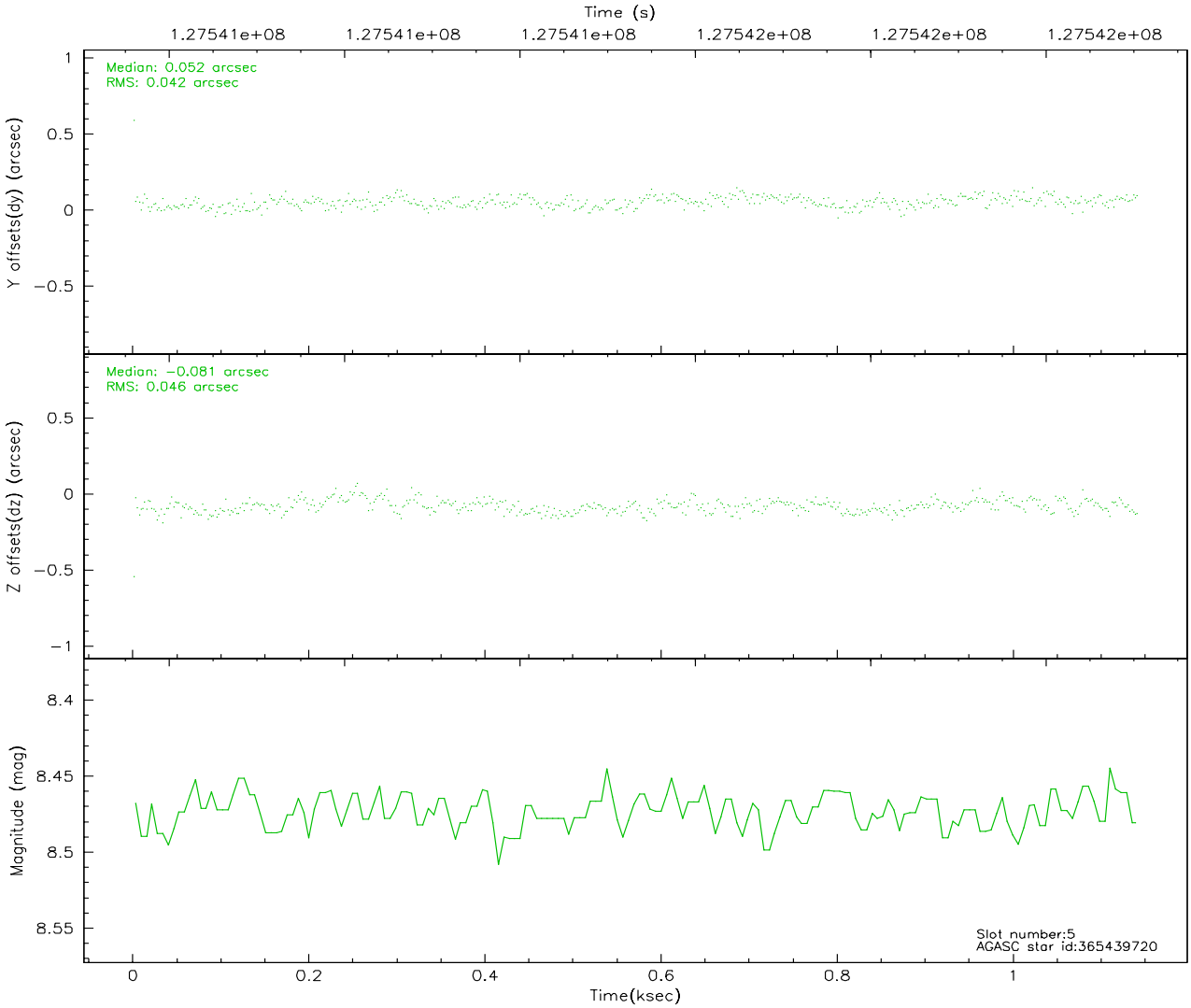

Points outside 0.4 arcsec radius: 0.180%
Radial offset of median: 0.131 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:365431072


Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: −0.126 arcsec
RMS: 0.050 arcsec
Y offsets(dy) (arcsec)
Median: 0.033 arcsec
RMS: 0.059 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:4
AGASC star id:365431072
Time(ksec)

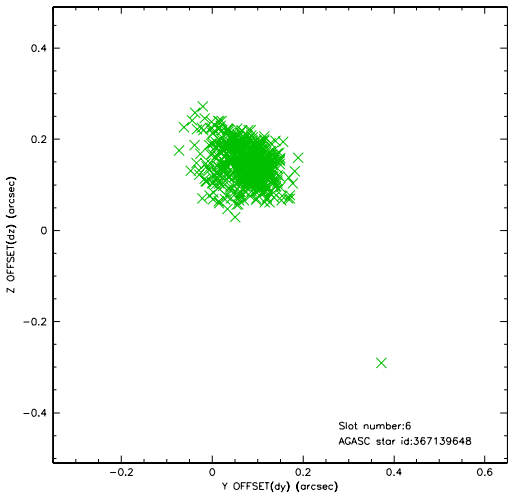
2.4.3 Slot 5

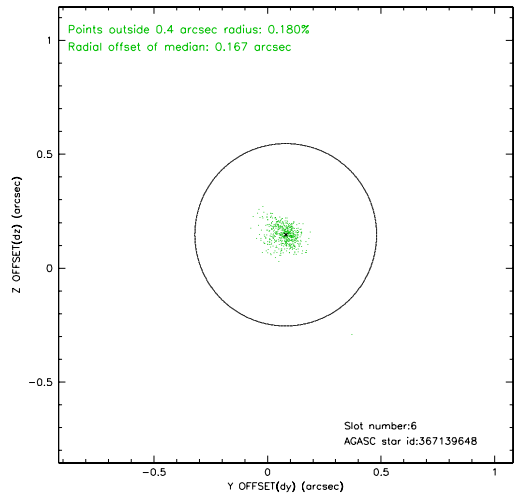

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:365439720

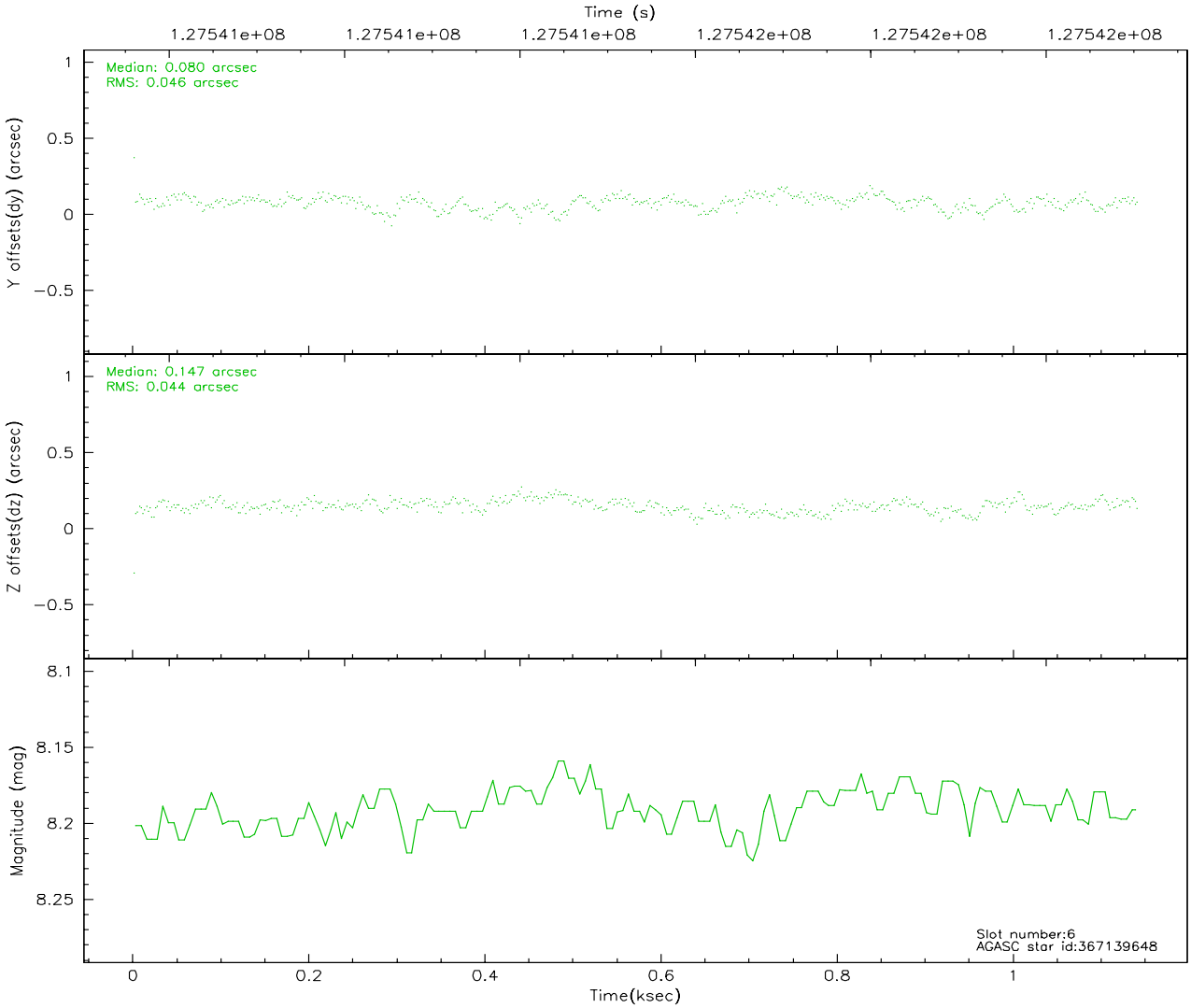

Points outside 0.4 arcsec radius: 0.180%
Radial offset of median: 0.096 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:365439720


Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: 0.052 arcsec
RMS: 0.042 arcsec
Y offsets(dy) (arcsec)
Median: −0.081 arcsec
RMS: 0.046 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:5
AGASC star id:365439720
Time(ksec)

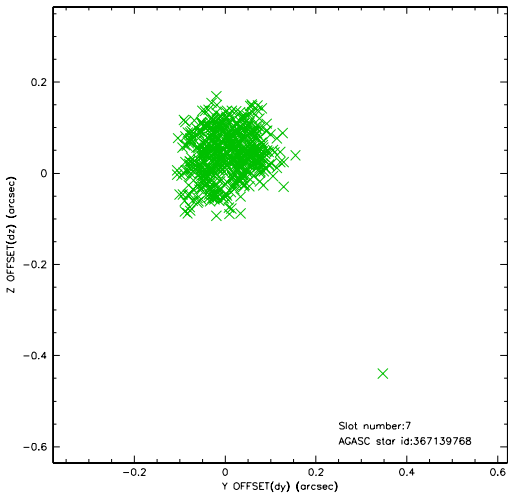
2.4.4 Slot 6

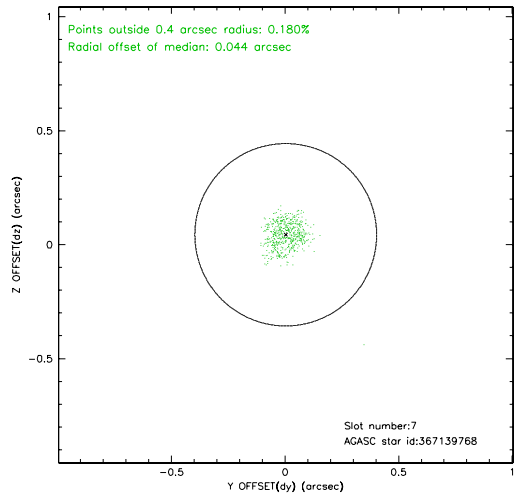

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:367139648

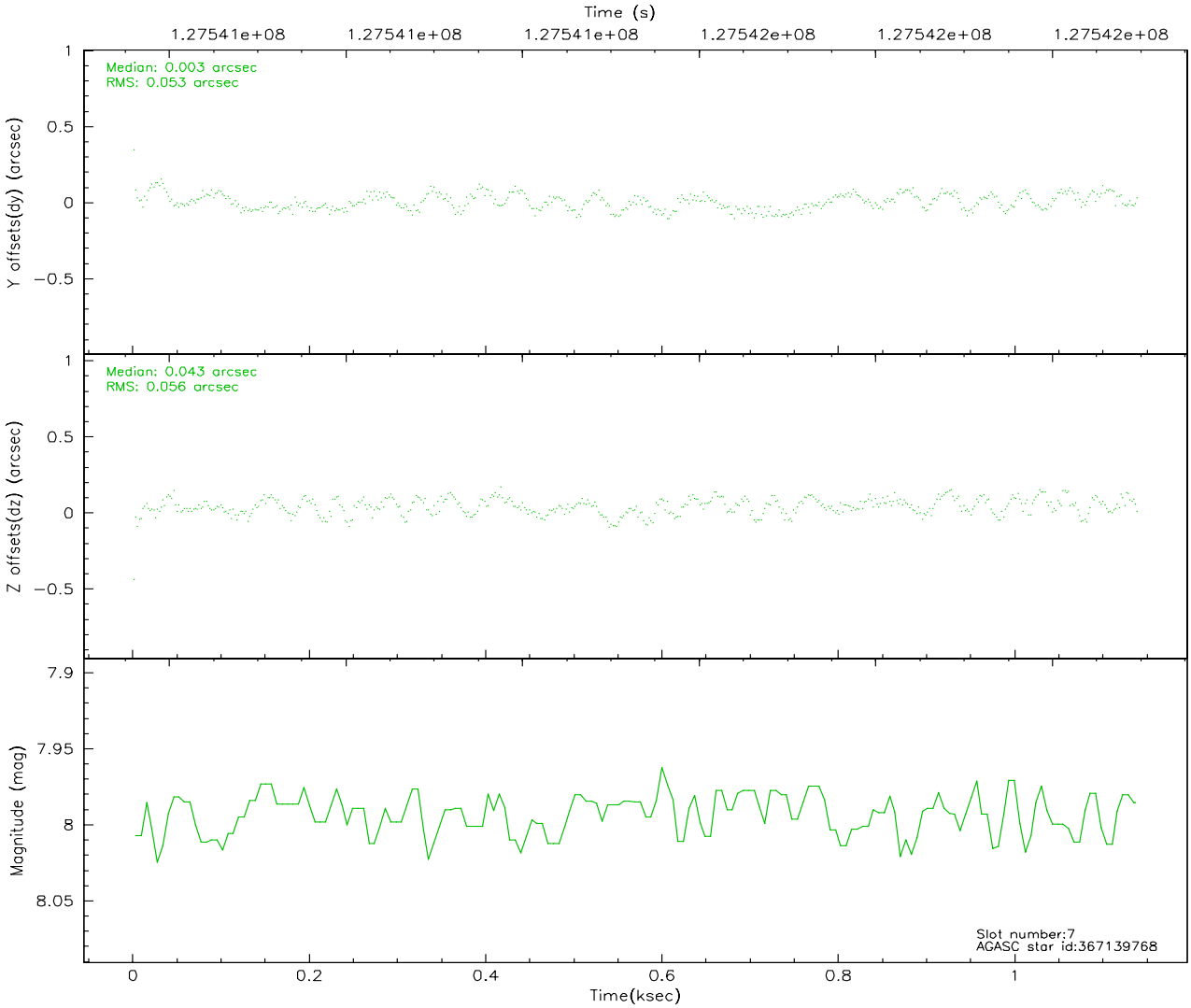

Points outside 0.4 arcsec radius: 0.180%
Radial offset of median: 0.167 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:367139648


Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: 0.080 arcsec
RMS: 0.046 arcsec
Y offsets(dy) (arcsec)
Median: 0.147 arcsec
RMS: 0.044 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:6
AGASC star id:367139648
Time(ksec)

2.4.5 Slot 7

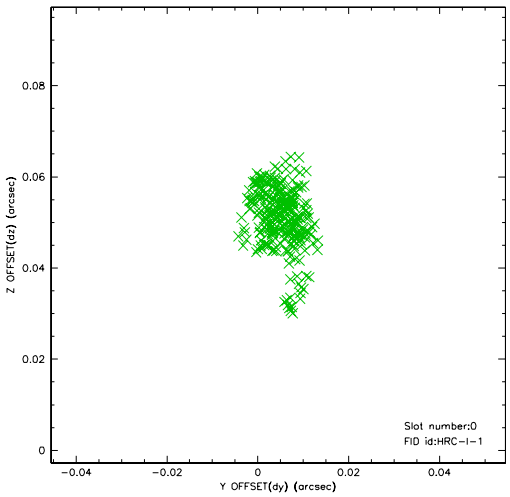

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:367139768

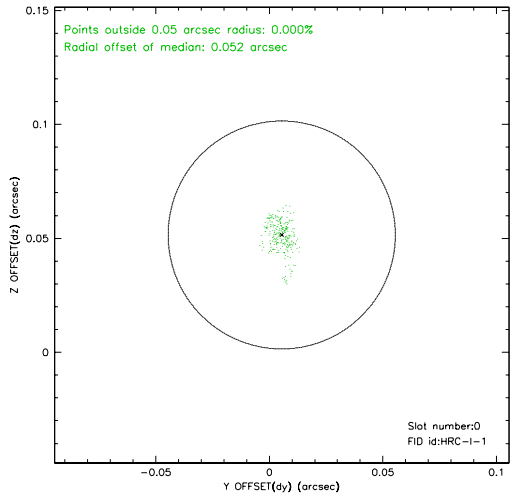

Points outside 0.4 arcsec radius: 0.180%
Radial offset of median: 0.044 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:367139768

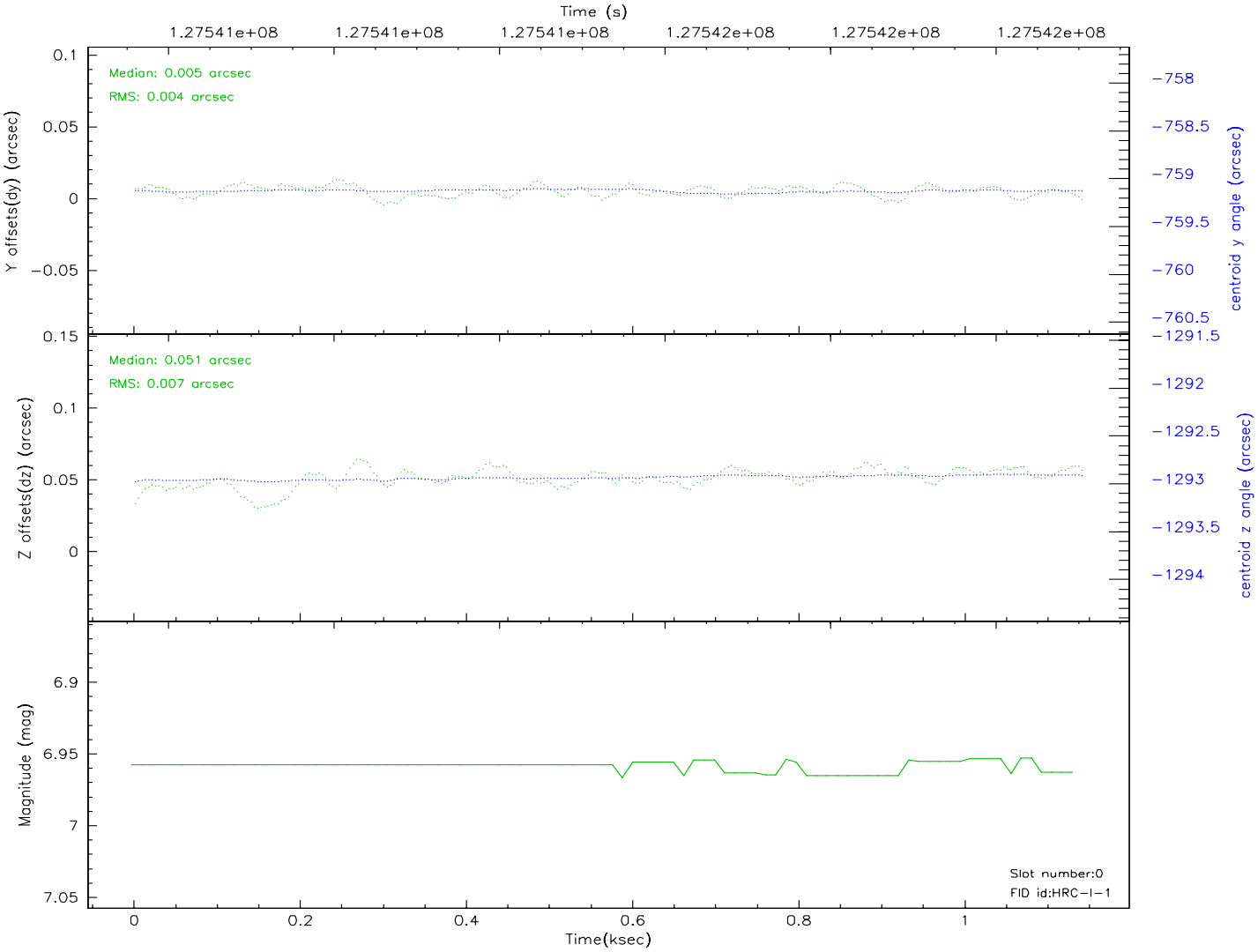

Time (s)
1.27541e+08
1.27541e+08
1.27541e+08
1.27542e+08
1.27542e+08
1.27542e+08
Median: 0.003 arcsec
RMS: 0.053 arcsec
Y offsets(dy) (arcsec)
Median: 0.043 arcsec
RMS: 0.056 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:7
AGASC star id:367139768
Time(ksec)

2.5 FID Slots

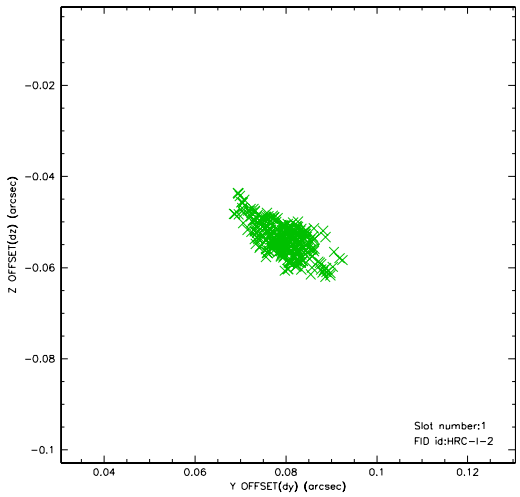
2.5.1 Slot 0

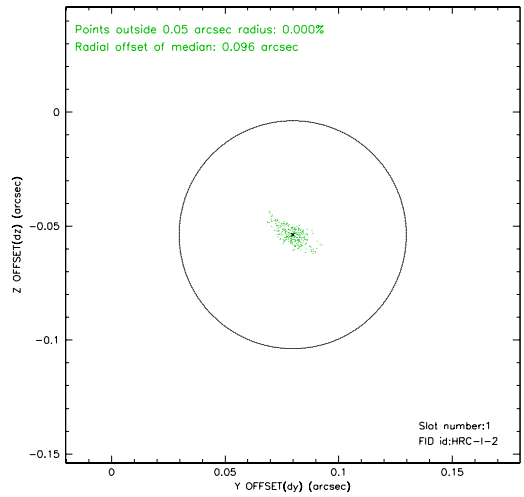


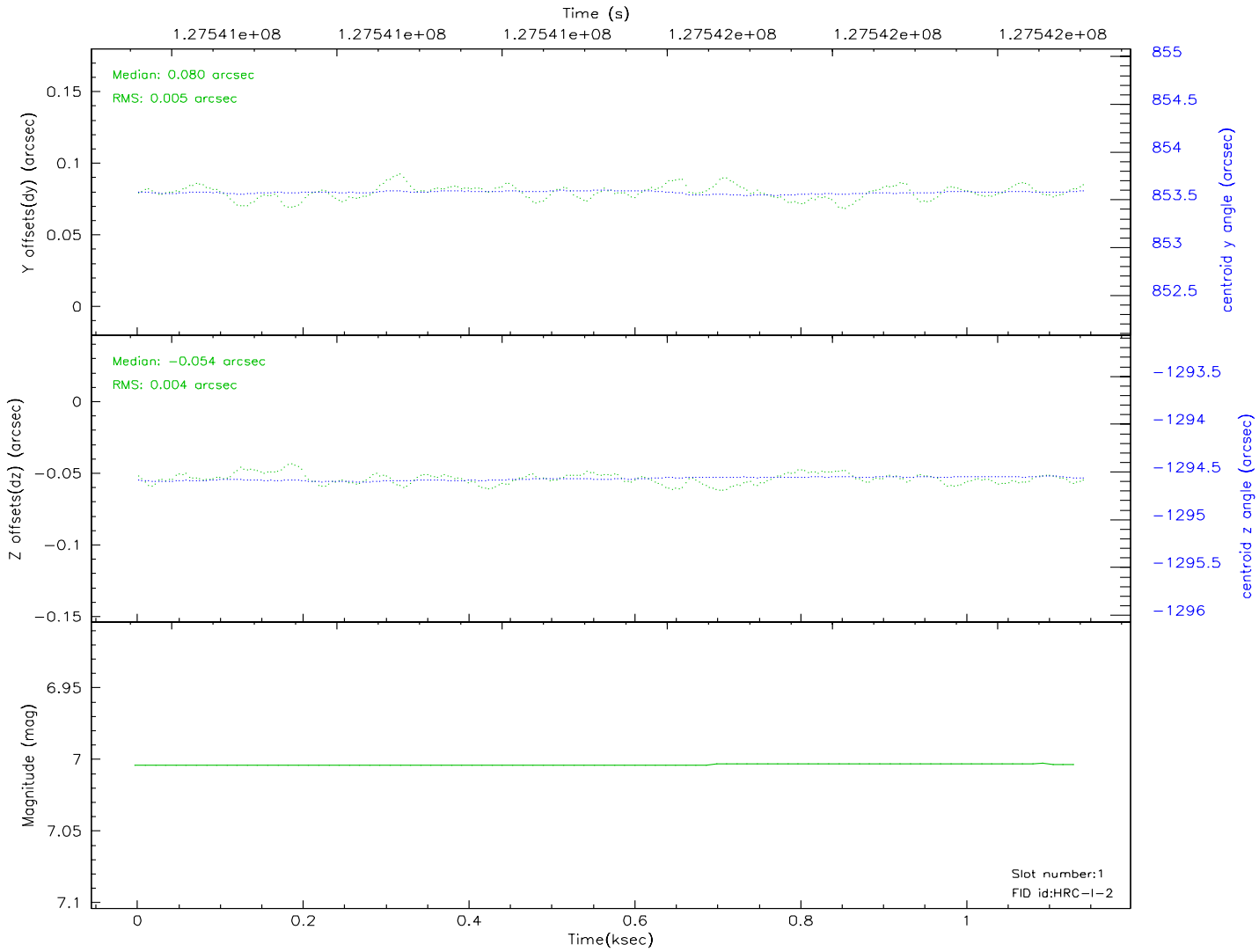




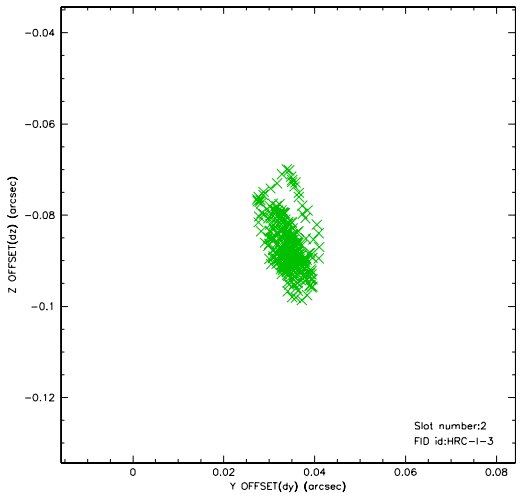
2.5.2 Slot 1

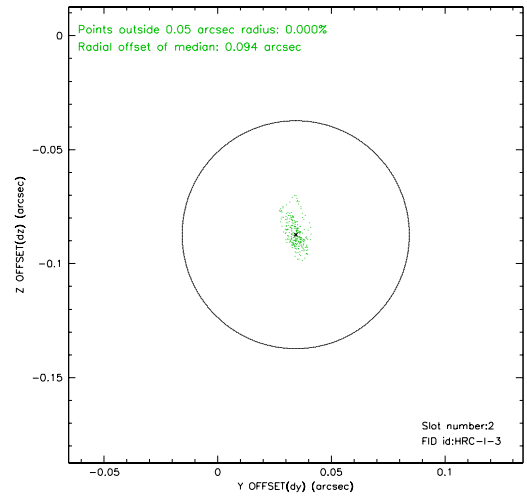

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:HRC-I-2

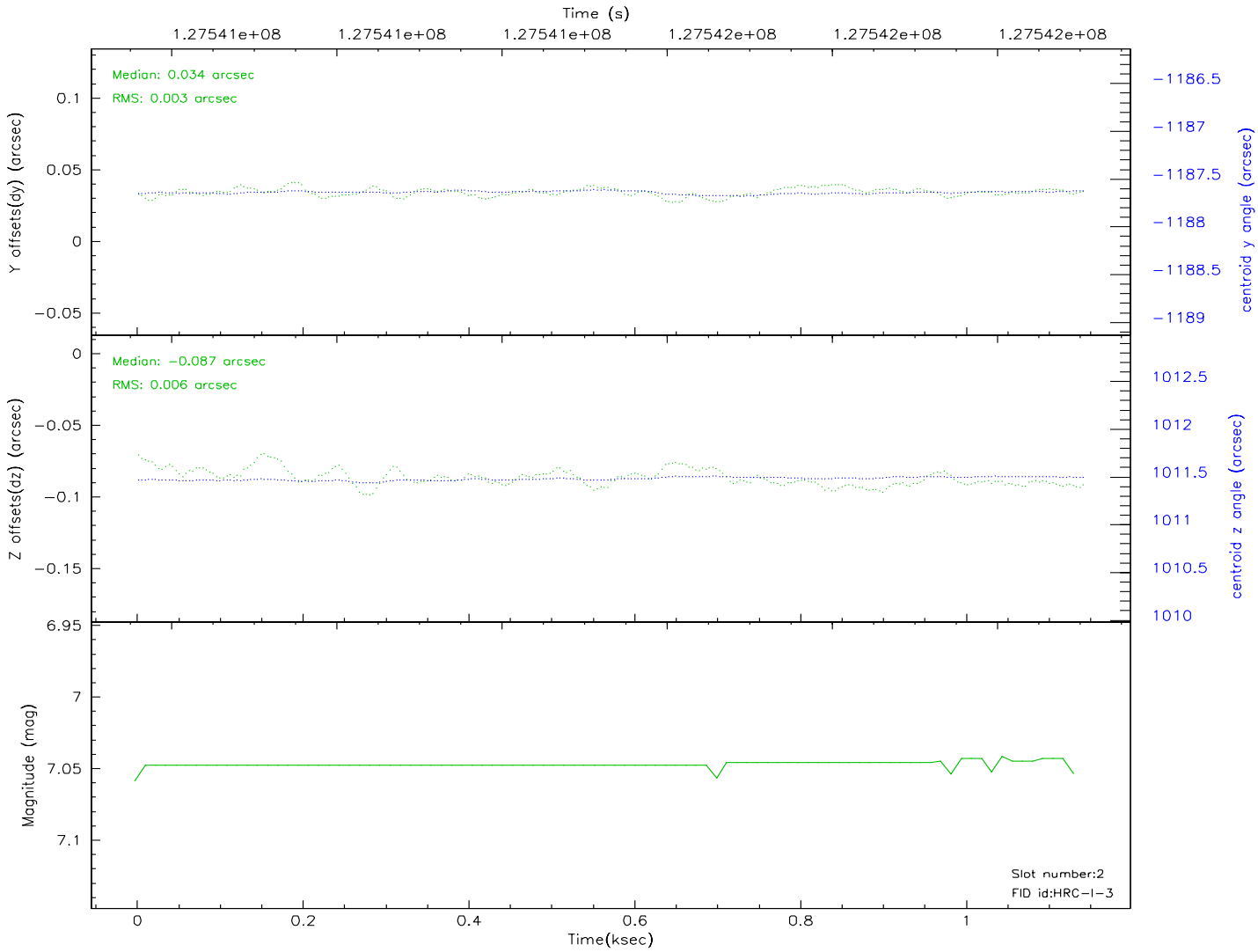

Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.096 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:HRC-I-2


Time (s)
Median: 0.080 arcsec
RMS: 0.005 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.054 arcsec
RMS: 0.004 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:1
FID id:HRC-I-2
Time(ksec)

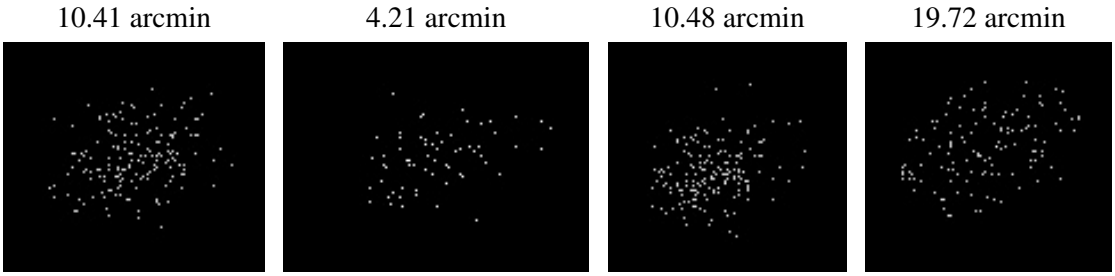
2.5.3 Slot 2


Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:HRC-I-3


Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.094 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:HRC-I-3


Time (s)
Median: 0.034 arcsec
RMS: 0.003 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.087 arcsec
RMS: 0.006 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:2
FID id:HRC-I-3
Time(ksec)

3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.981

A.2 Comments

```
Window constraint satisfied.

The current observation has been reprocessed as part of Repro III ('C'
supplement) the purpose of which is to update all HRC-I ObsIDs since Jan
2000 to the latest calibrations available for that configuration.
Specifically, we are updating the DEGAP solution and the Gain Maps
applied. For more information see the Repro IIIC web page at

http://asc.harvard.edu/cda/repro3.html#IIIc

and the associated links.
```