V&V Reference Report
L2 ASCDS Version : 7.6.7.1

Observation 5070 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 23 2007

Contents

1 Front

|	
seq_num	290343
obs_id	5070
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.30872951113
dec_nom	45.763515821885
roll_nom	284.42972026205
revision	3
ontime	1085.7312988043
livetime	1077.8977324819
l2events	43733

2   OBI

2.1   OBI

2.1.1   Images
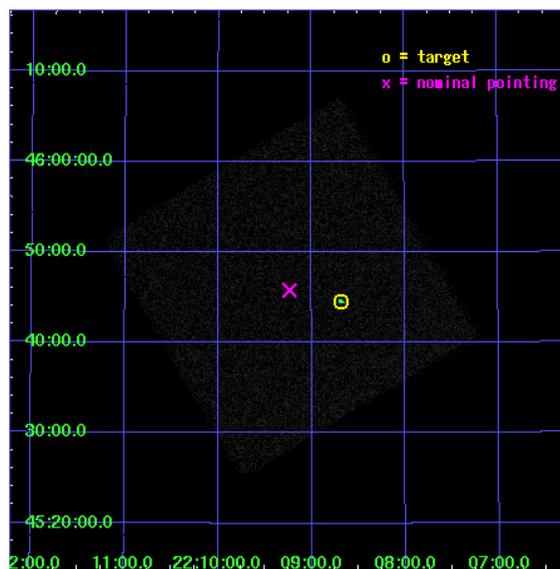
Level 1 Image   Level 1 Bad Events
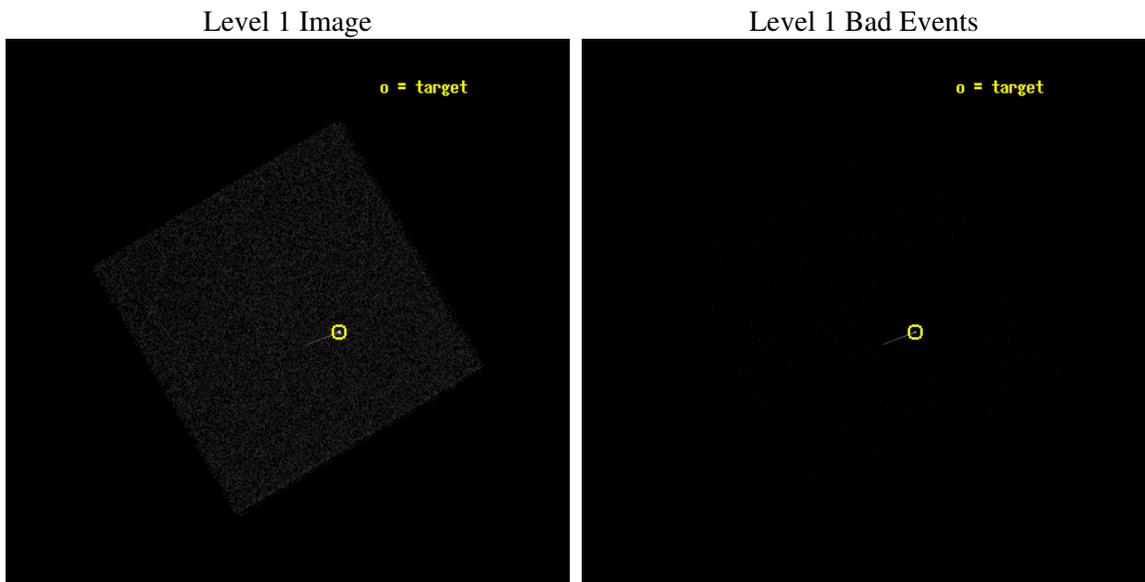
2.1.2 Parameters

obi_num	1
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-24T02:30:34
revision	3

sched_exp_time	900.000000
ontime	1085.7312988043
l1events	82127

2.1.3 Events

Level 1 Events

	segment 0
level 1 events	82127
rejected events	18495
rejected %	22%

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	332.280016	332.3087295111251
Pointing Dec	45.782251	45.76351582188524
Pointing Roll	284.545815	284.4297202620464
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.001426264420575141
SIM translation stage pos (mm)	126.985494	126.9854943052878
SIM translation stage offset (mm)	0	-5.413686238853188e-06
Observation start time	217788747.184000	217788371.19584
Observation start date	2004-11-25T16:51:23	2004-11-25T16:46:11
Observation end time	217789647.184000	217789781.0834
Observation end date	2004-11-25T17:06:23	2004-11-25T17:09:41

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

2.3 Aspect

RA : 332.309 deg
Dec : 45.764 deg

DY : 7.306 arcsecs
DZ : 7.433 arcsecs

7
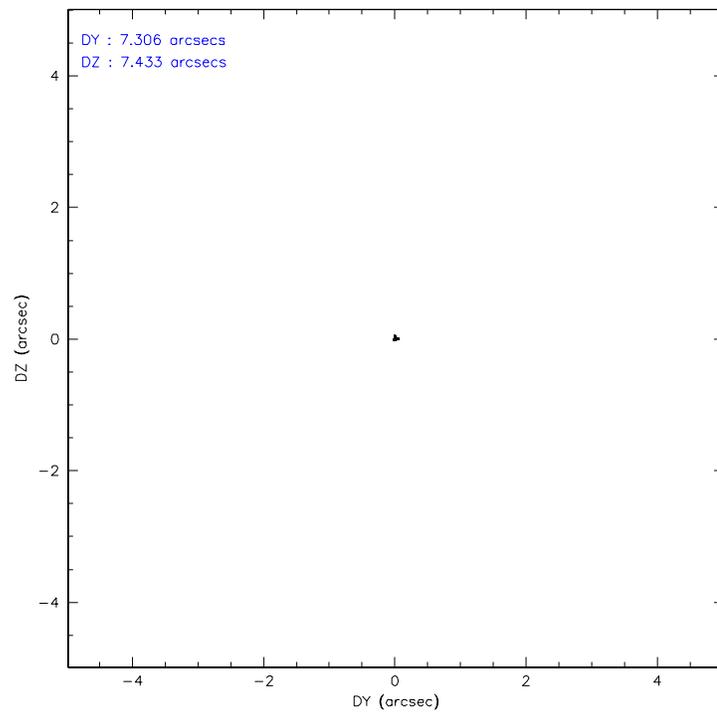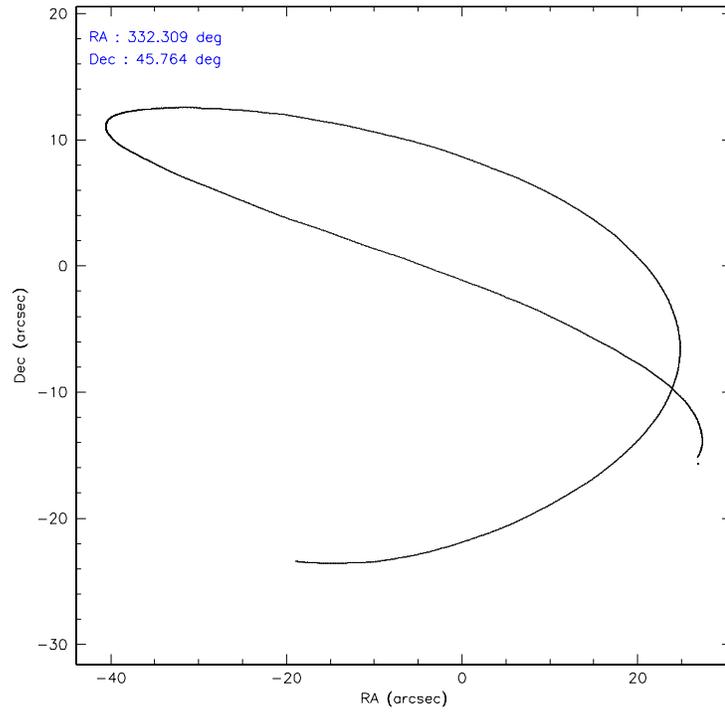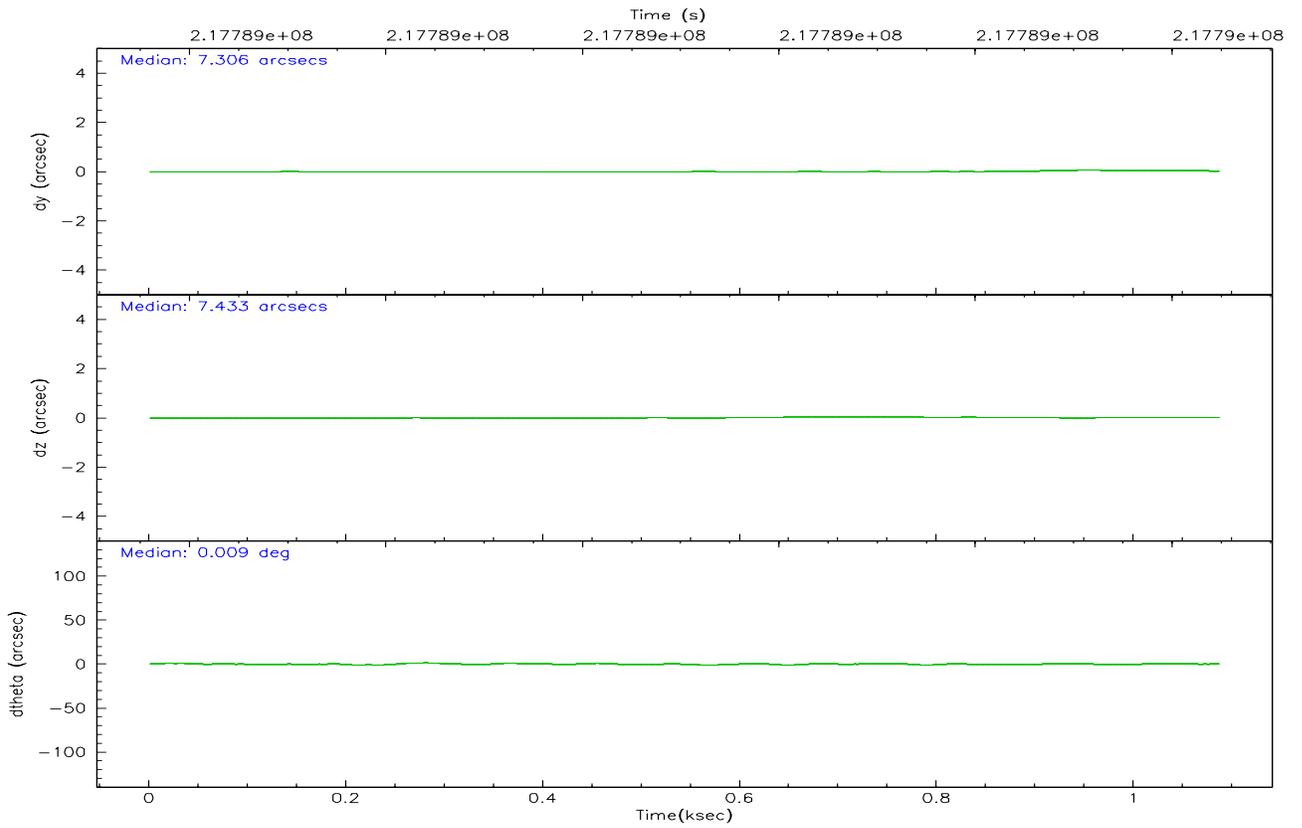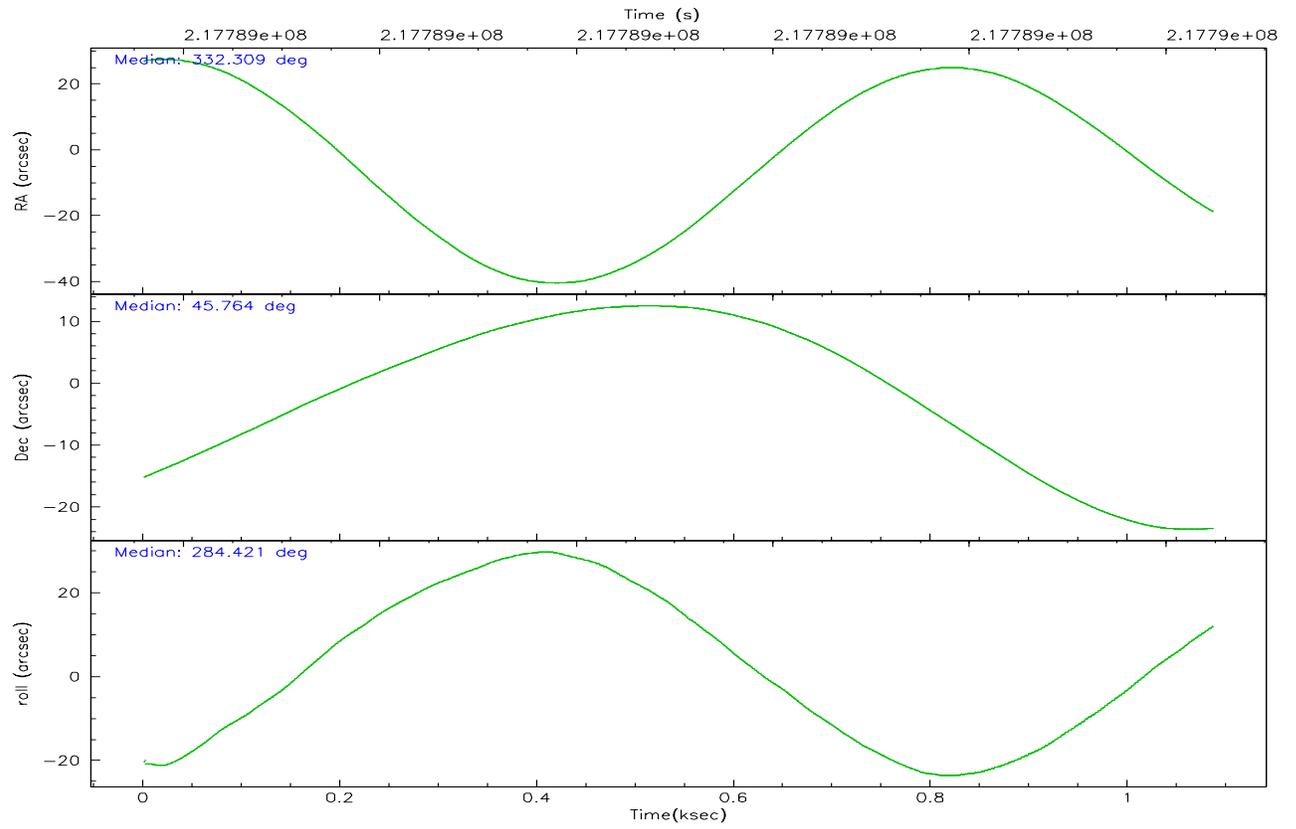
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	265	0.009	0.028	0.008	0.011	0.000000	0.000000	-762.91	-1295.32
1	FID	HRC-I-2	7.05	265	0.132	-0.112	0.006	0.010	0.000000	0.000000	846.97	-1301.93
2	FID	HRC-I-3	7.09	265	-0.021	-0.006	0.005	0.010	0.000000	0.000000	-1188.21	1004.31
3	GUIDE	472523760	8.24	531	-0.018	-0.117	0.070	0.113	331.645363	45.403260	912.21	-1895.88
4	GUIDE	472525528	6.65	531	0.074	0.090	0.091	0.157	331.551102	45.248694	1389.62	-2273.88
5	GUIDE	472659832	9.46	531	-0.031	0.048	0.106	0.174	332.780399	46.098139	-788.16	1489.29
6	GUIDE	472533912	9.15	531	-0.114	0.028	0.094	0.148	331.791136	46.368695	-2353.34	-643.90
7	GUIDE	472655152	9.43	529	0.083	-0.036	0.119	0.200	332.504239	45.862991	-145.03	613.95

2.4 Star Slots

2.4.1 Slot 3
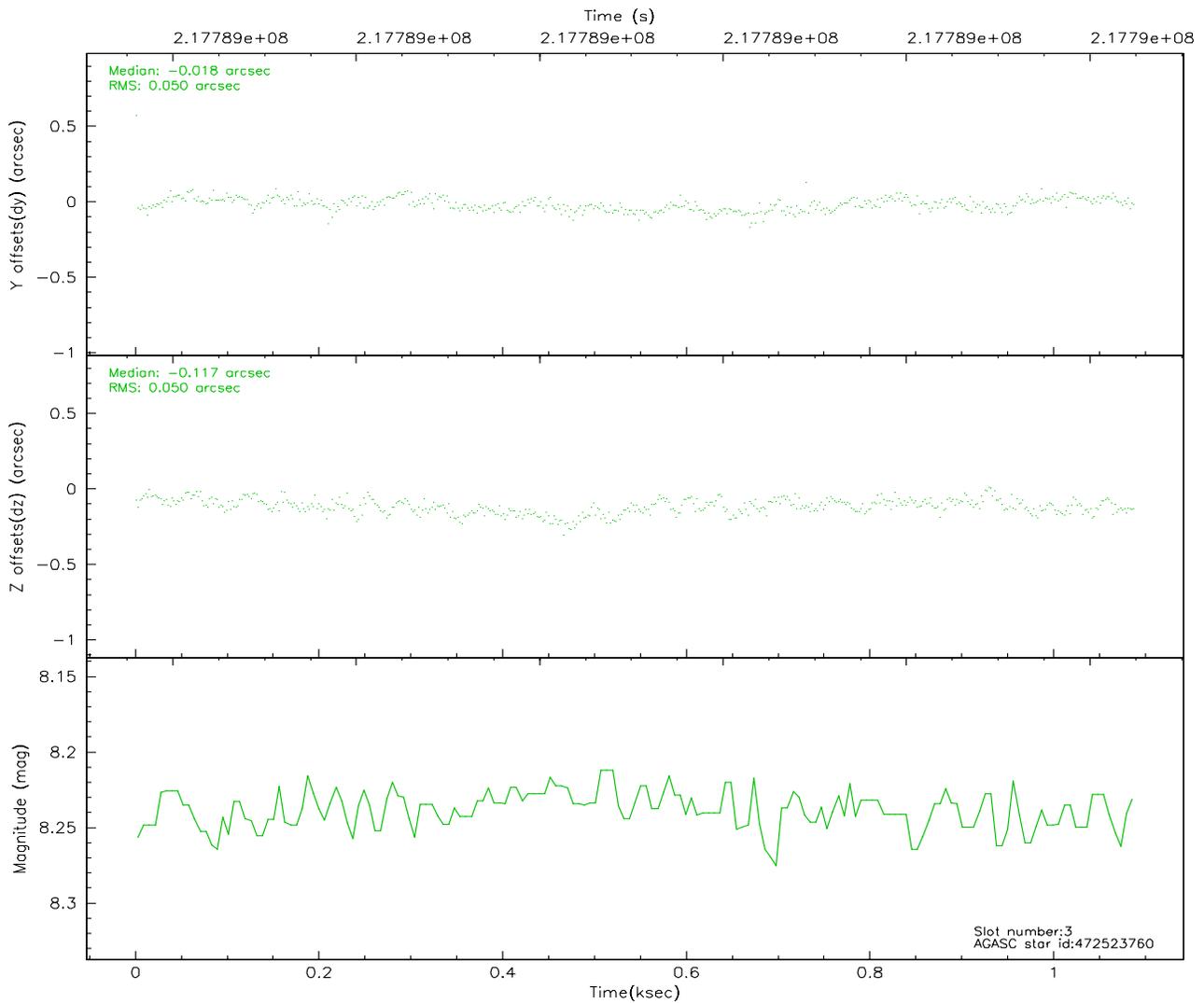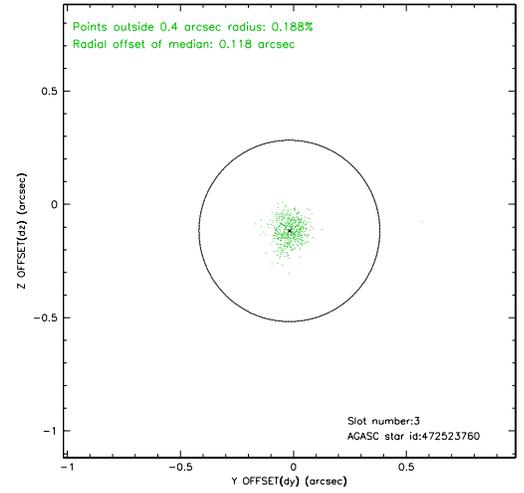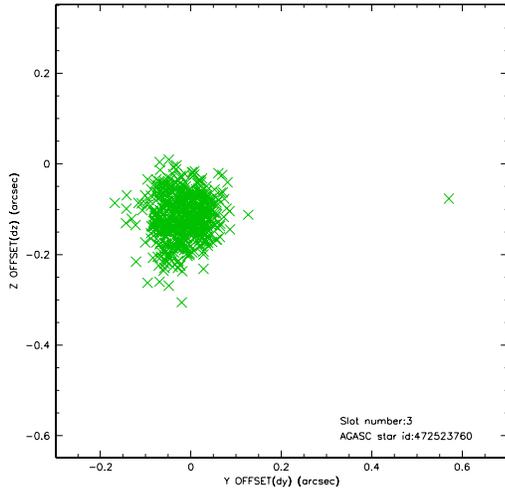
2.4.2 Slot 4
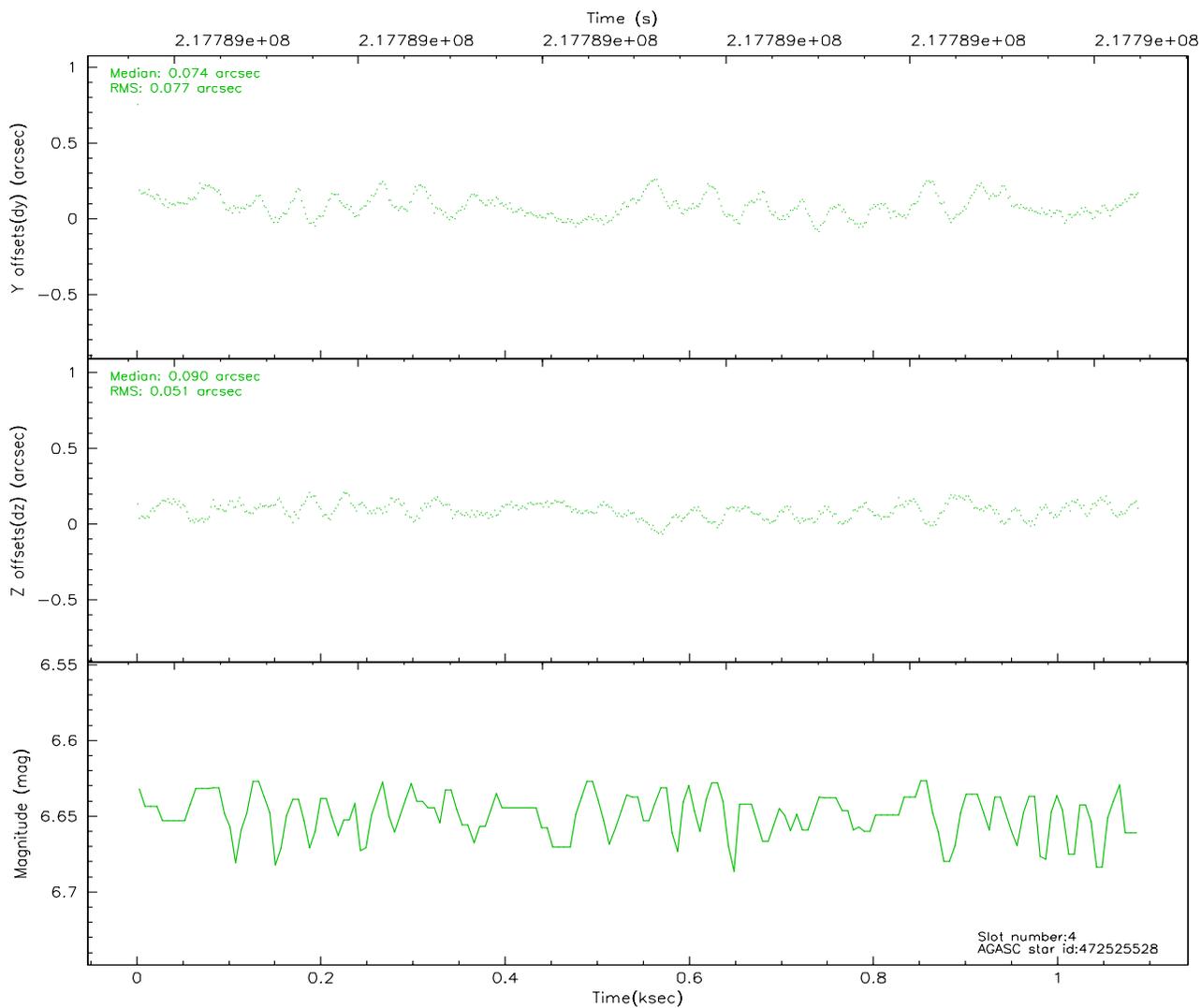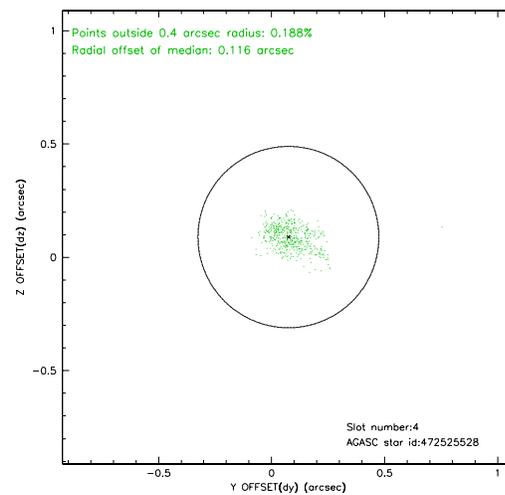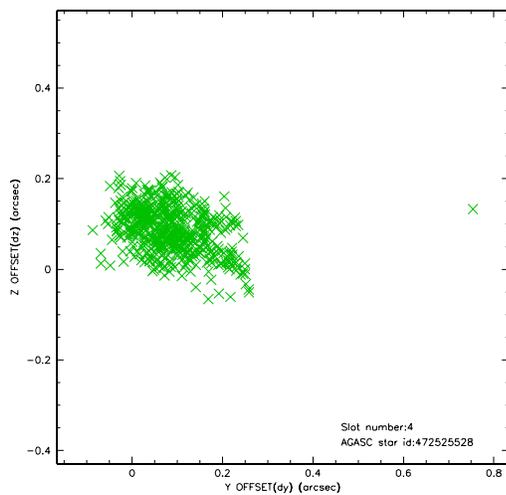
2.4.3   Slot 5

2.4.4 Slot 6

2.4.5　Slot 7

Points outside 0.4 arcsec radius: 0.000%
Radial offset of median: 0.090 arcsec

Slot number:7
AGASC star id:472655152

Time (s)

2.17789e+08　2.17789e+08　2.17789e+08　2.17789e+08　2.17789e+08　2.1779e+08

Median: 0.083 arcsec
RMS: 0.090 arcsec

Median: −0.036 arcsec
RMS: 0.072 arcsec

Slot number:7
AGASC star id:472655152
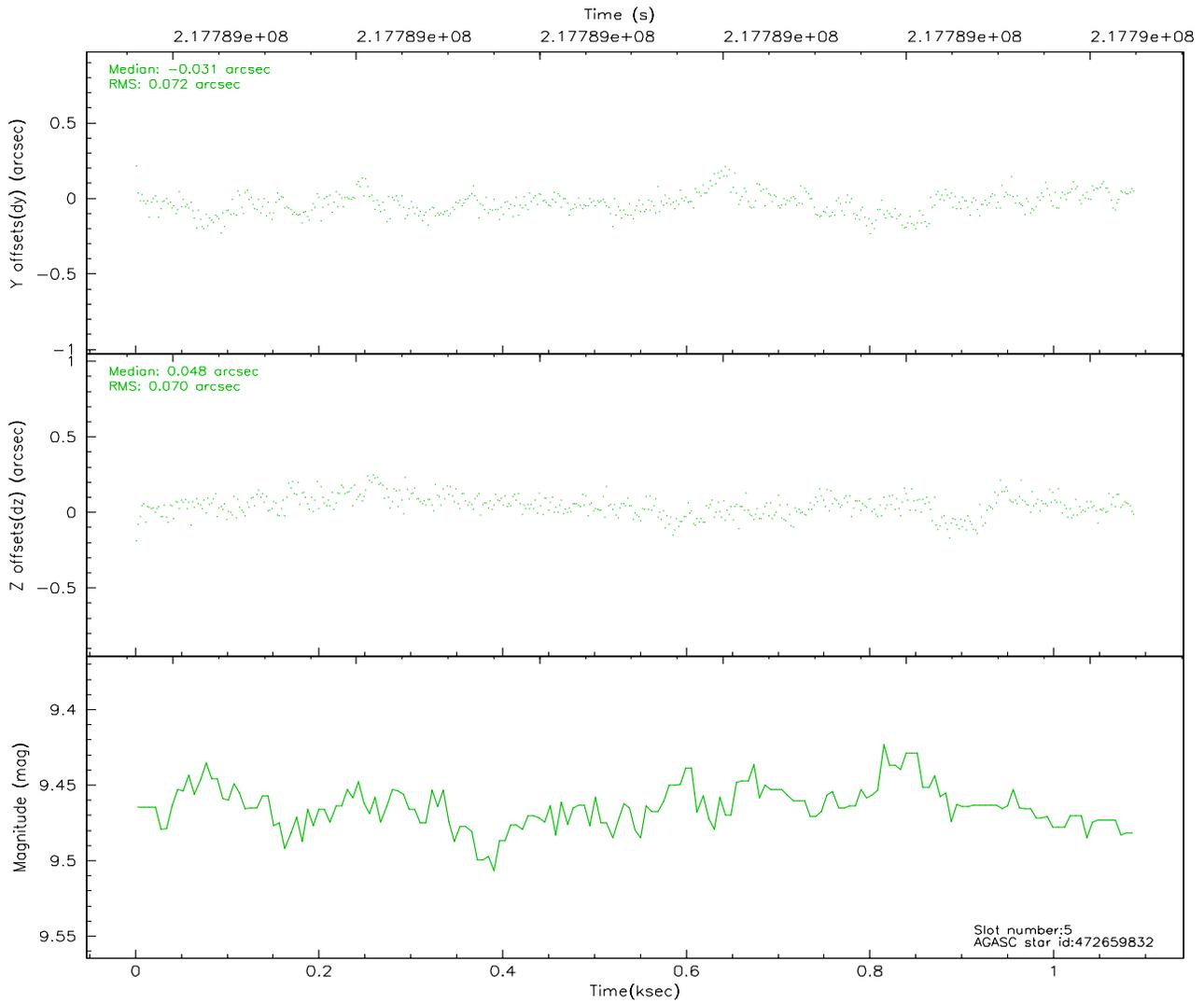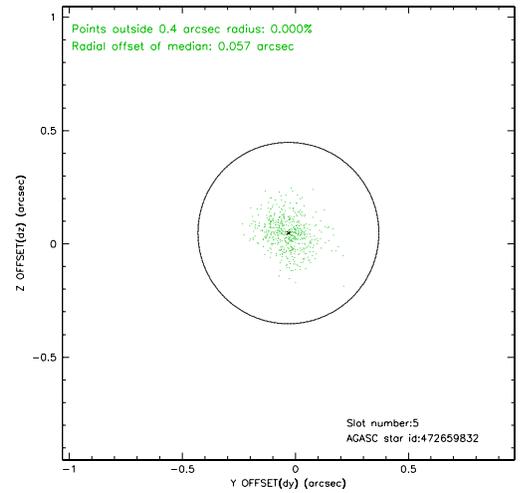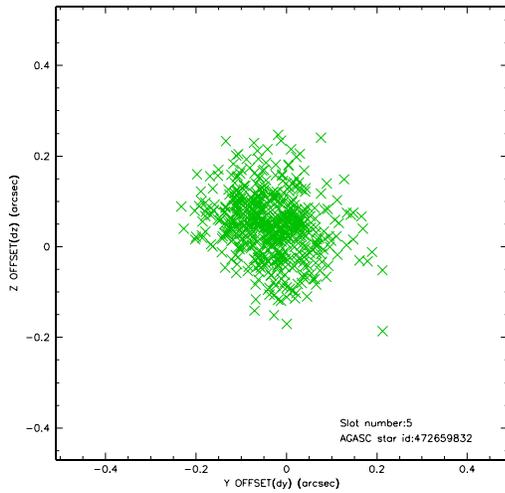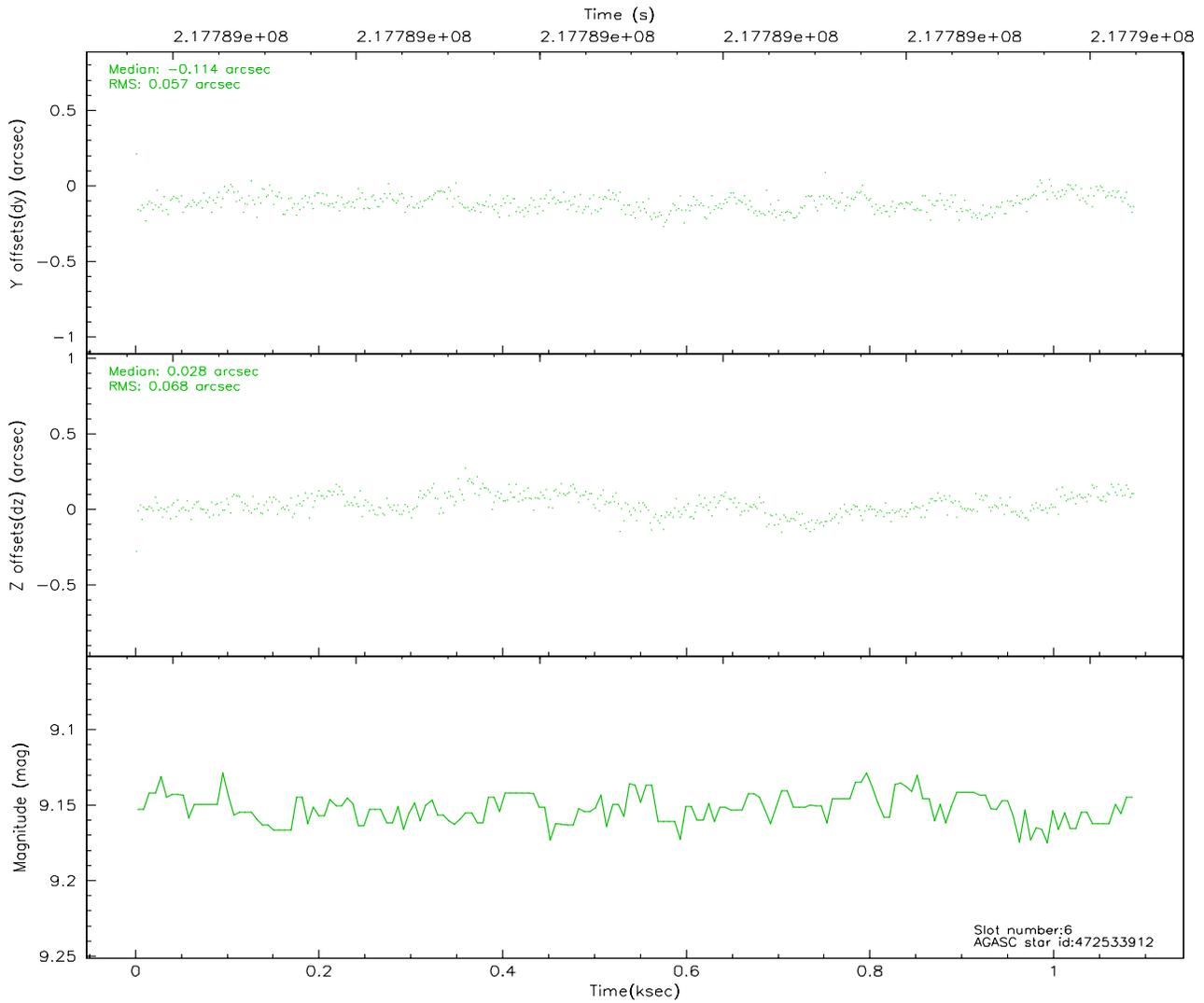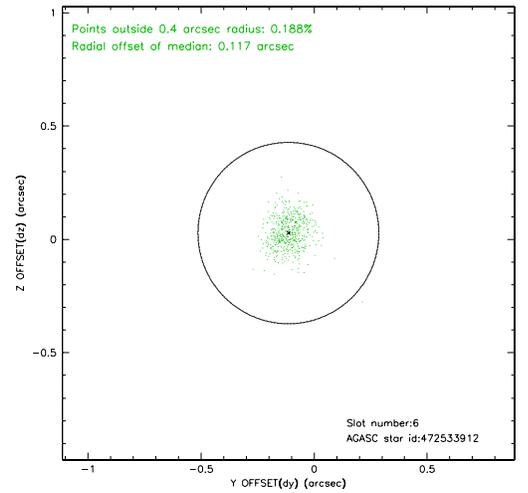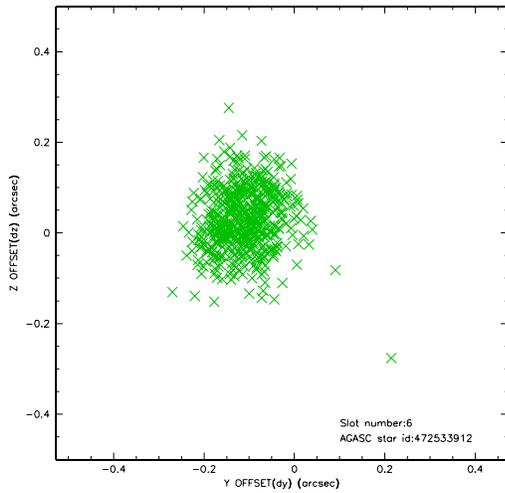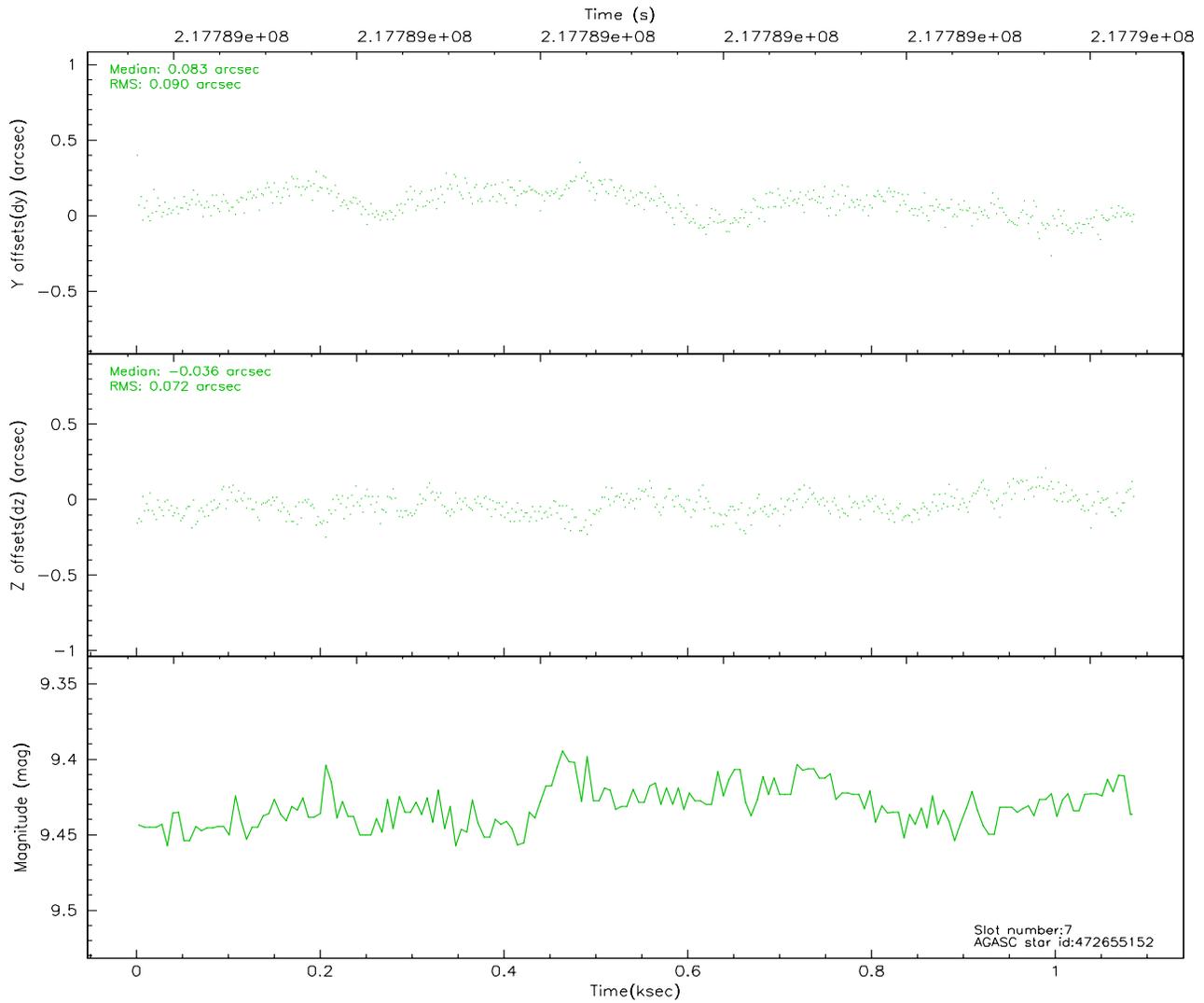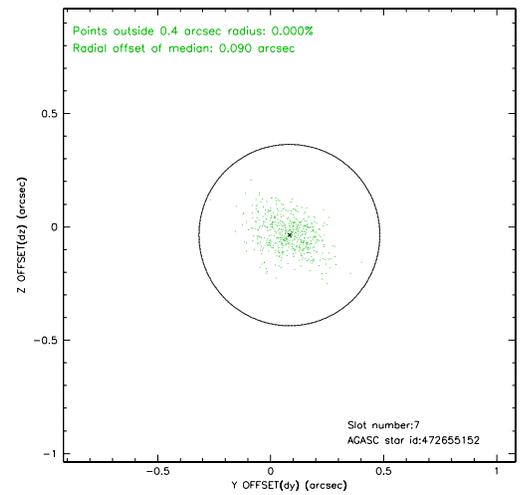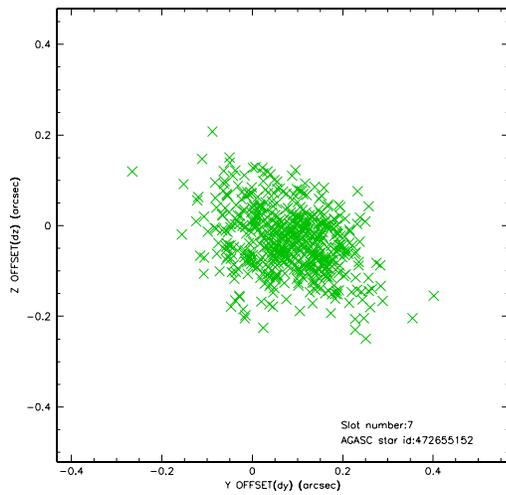
2.5 FID Slots

2.5.1 Slot 0
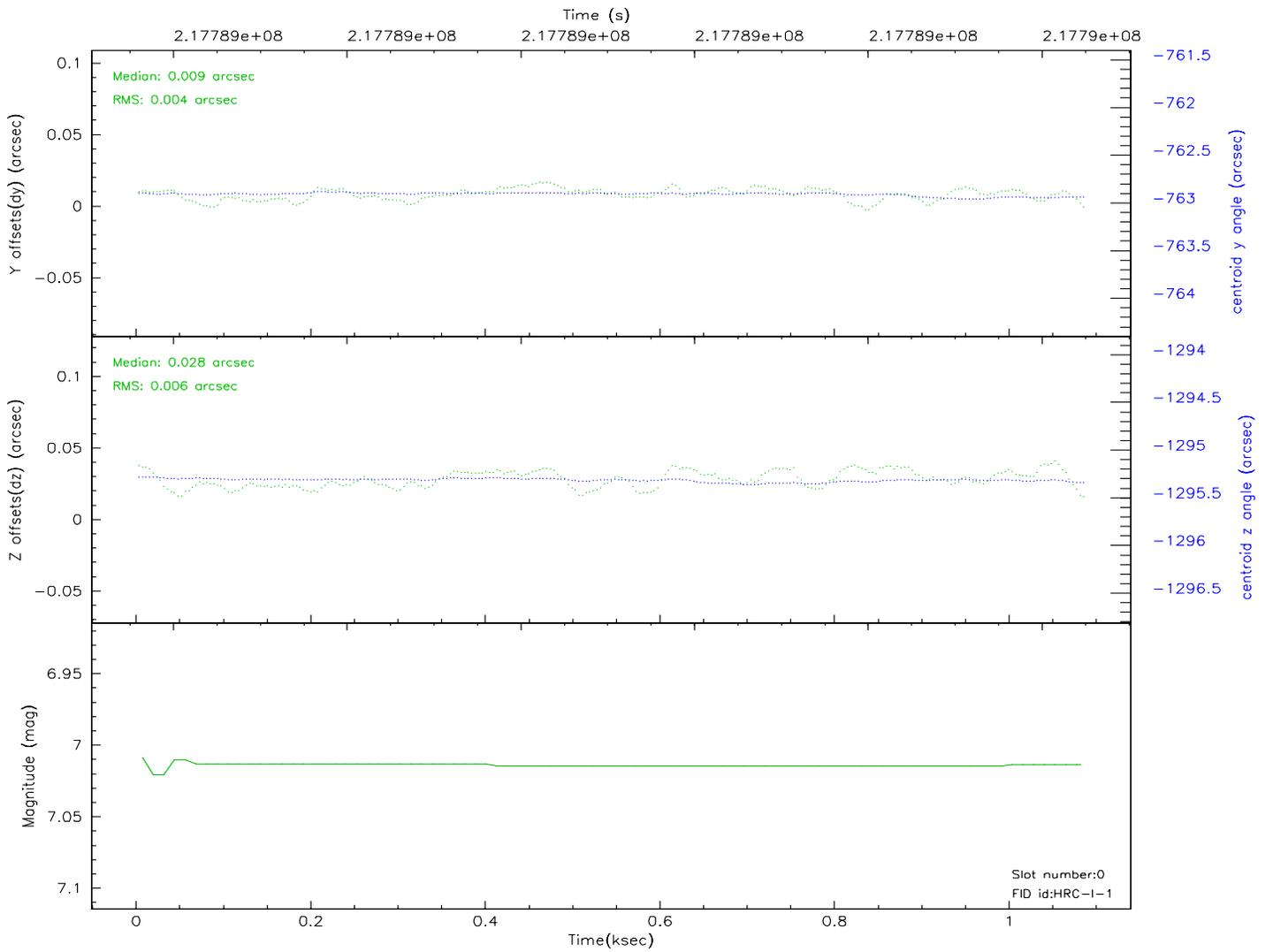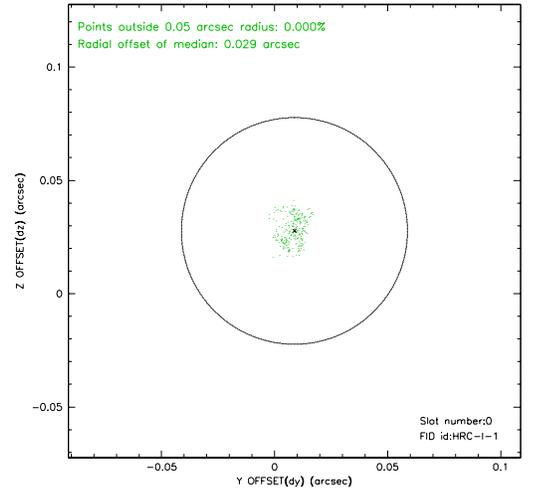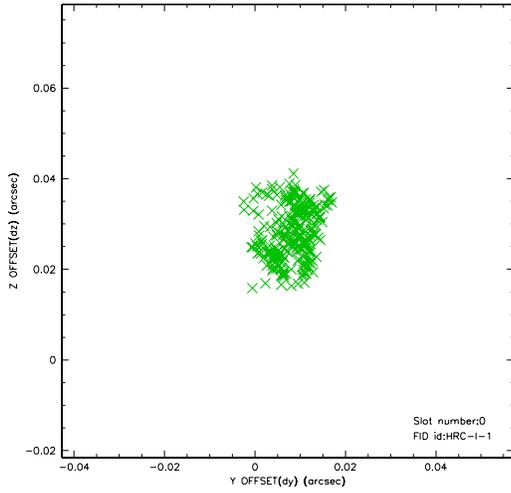
2.5.2 Slot 1
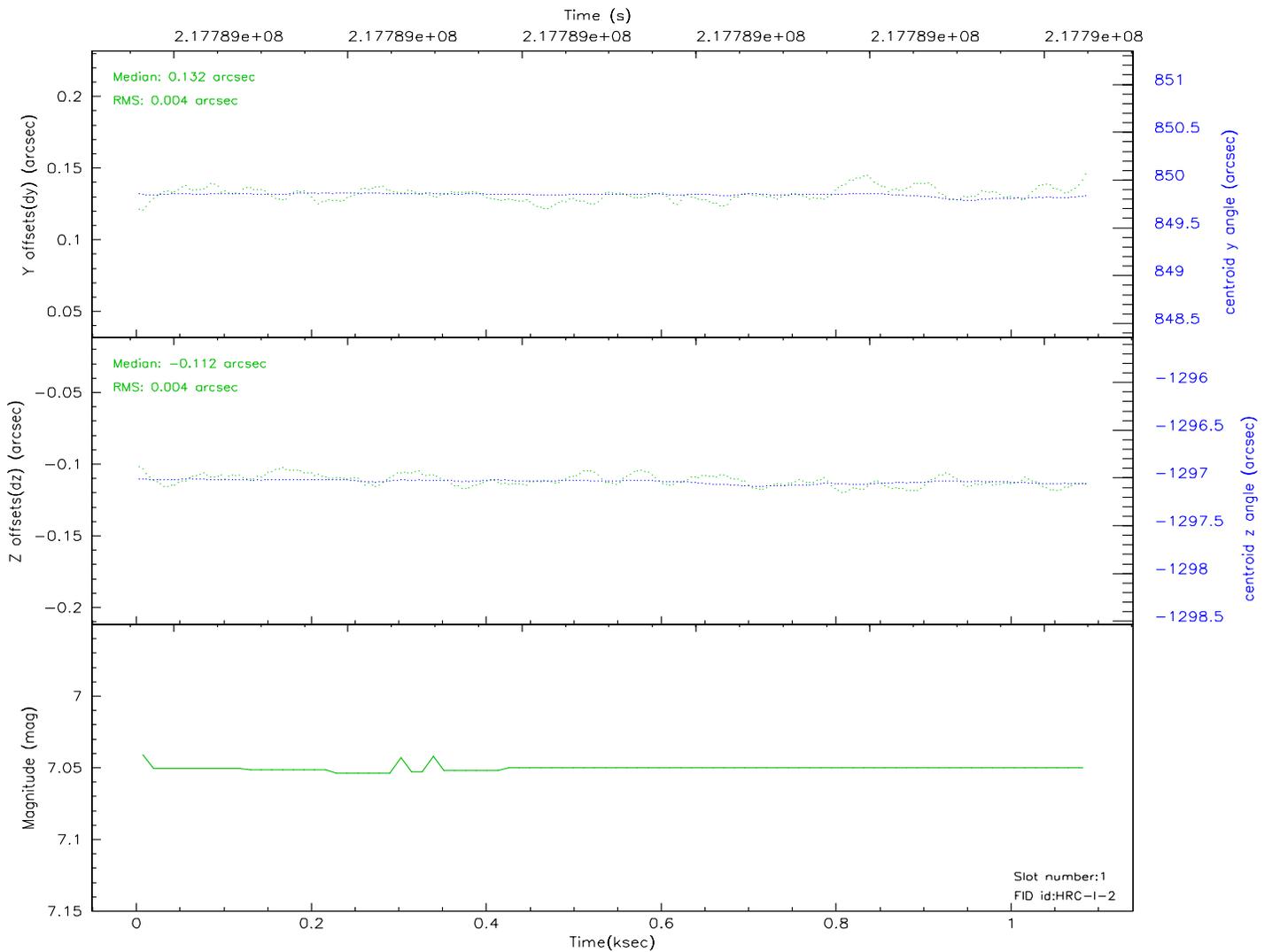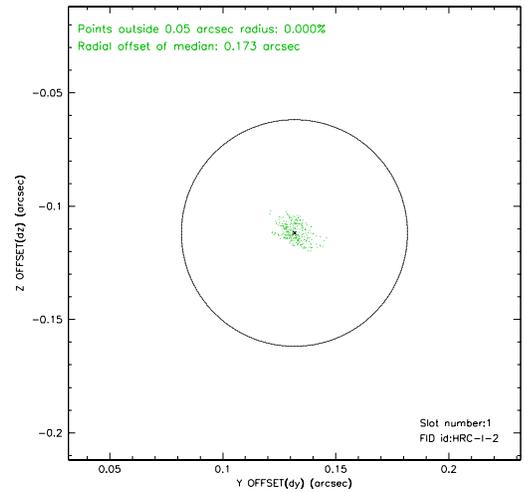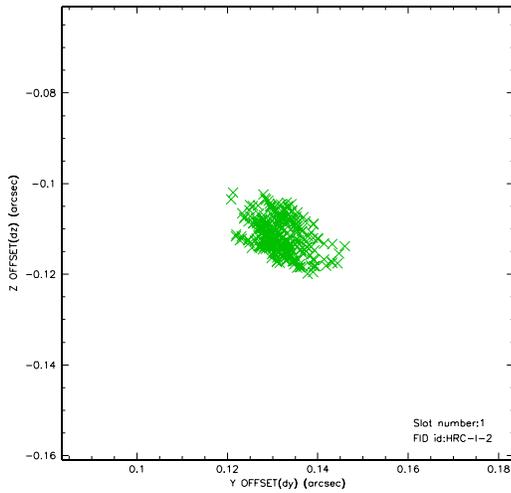
2.5.3   Slot 2
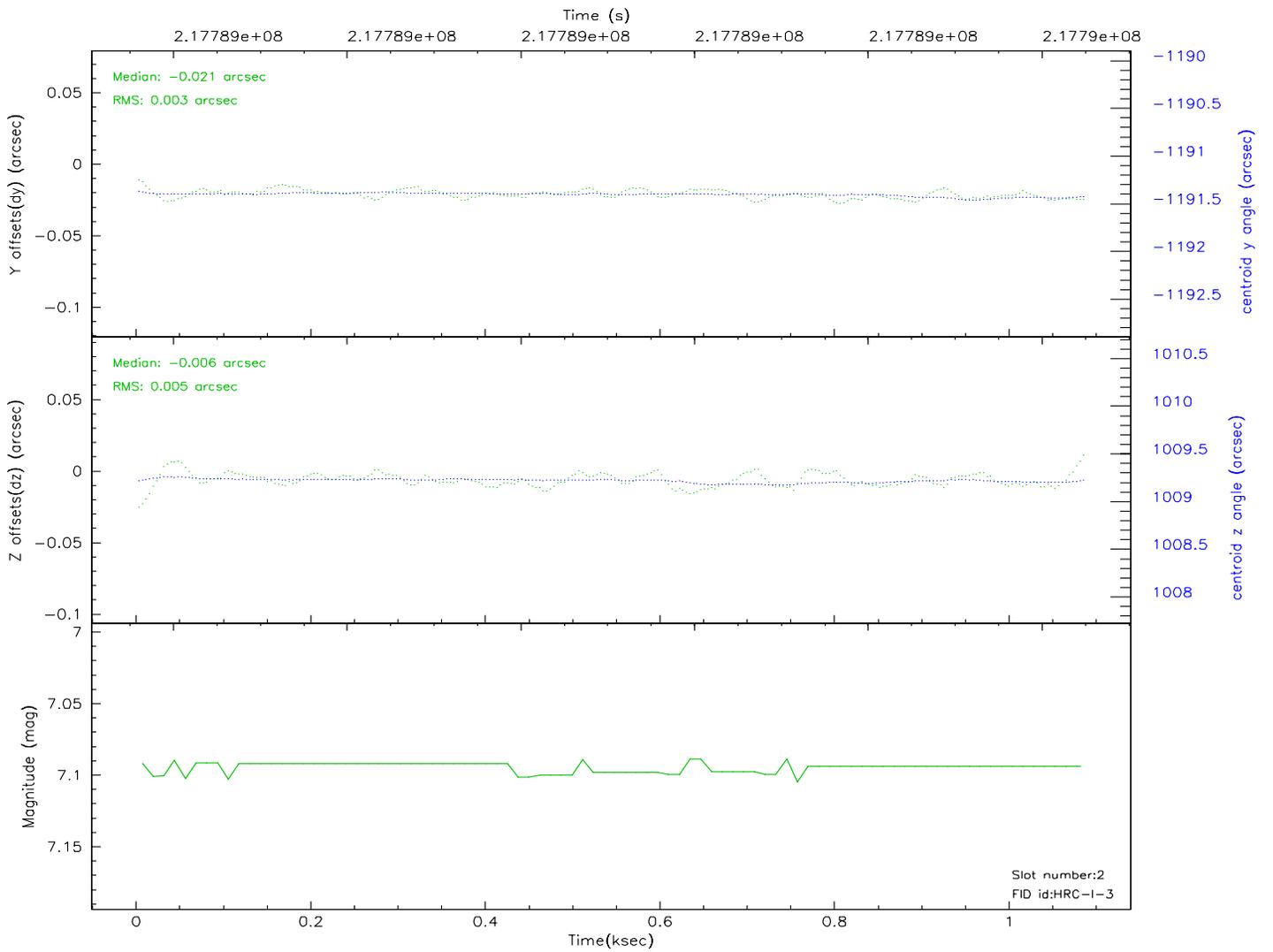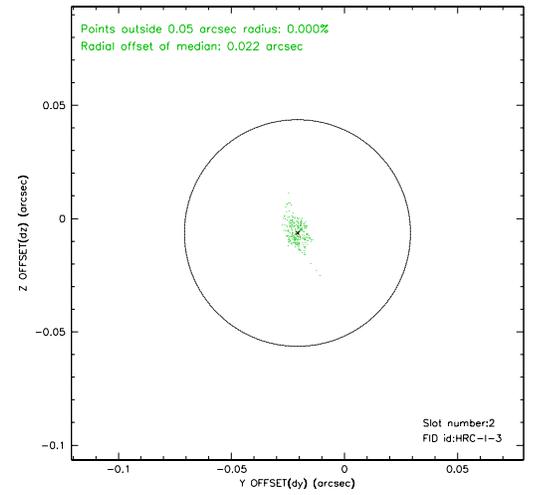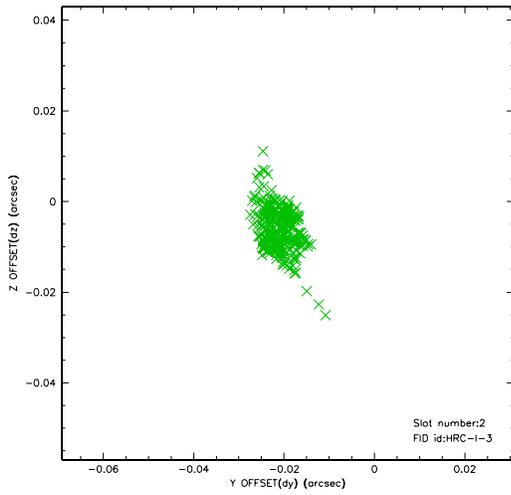
3   Point Sources

5.94 arcmin
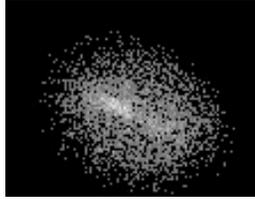
A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.085475

A.2 Comments

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.