

V&V Reference Report

L2 ASCDS Version : 10

Observation 15424 - L2 Version 2
Chandra X-Ray Center

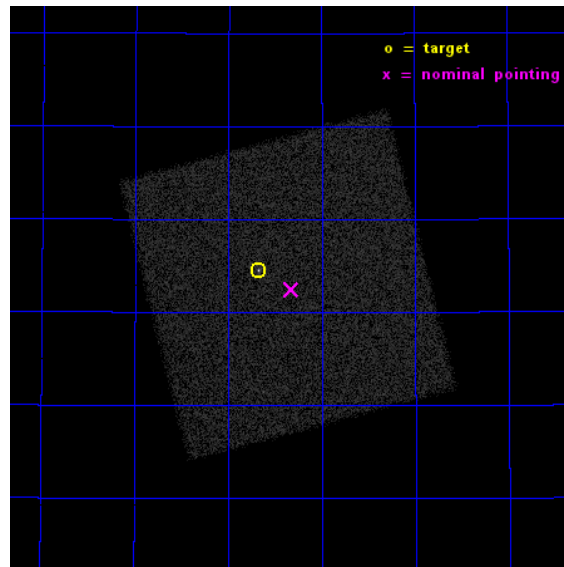
L2 Processing Date : Dec 6 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

seq_num	291103	Sequence number
obs_id	15424	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.08092947666	Nominal RA [deg]
dec_nom	45.707944025786	Nominal Dec [deg]
roll_nom	210.45216117807	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1179.7750642896	[s]
livetime	1170.6785693854	Ontime multiplied by DTCOR
l2events	71857	Number of level 2 events

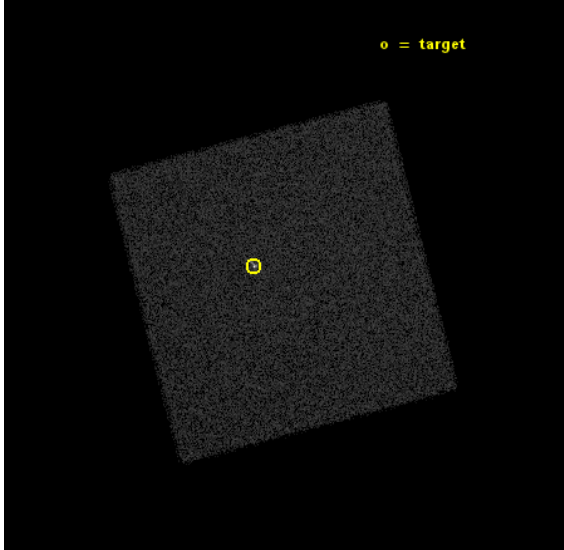


2 OBI

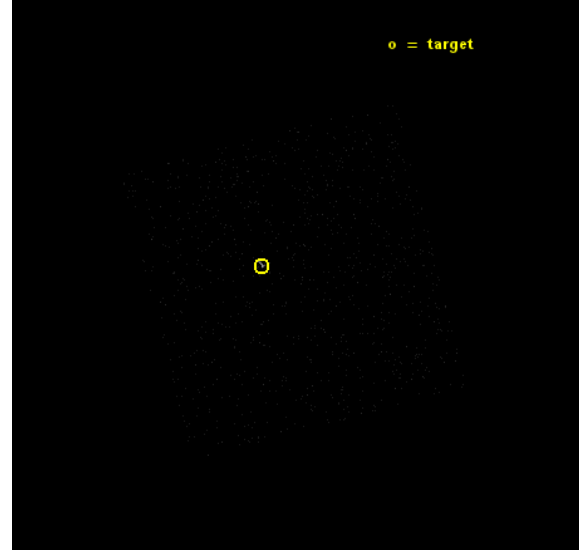
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1179.7750642896	[s]
caldsver	4.6.4	 	l1events	122345	Number of level 1 events
date	2014-12-06T14:12:06	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

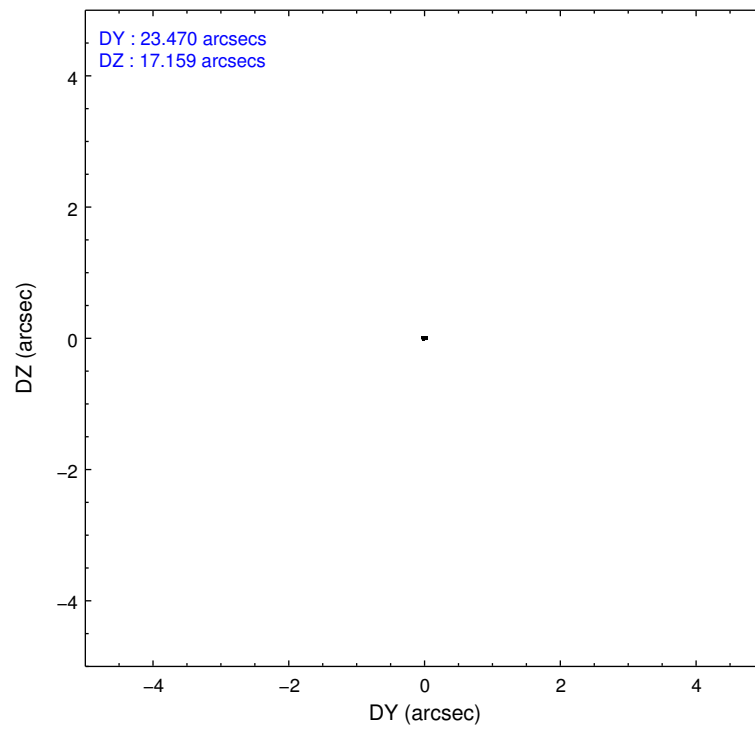
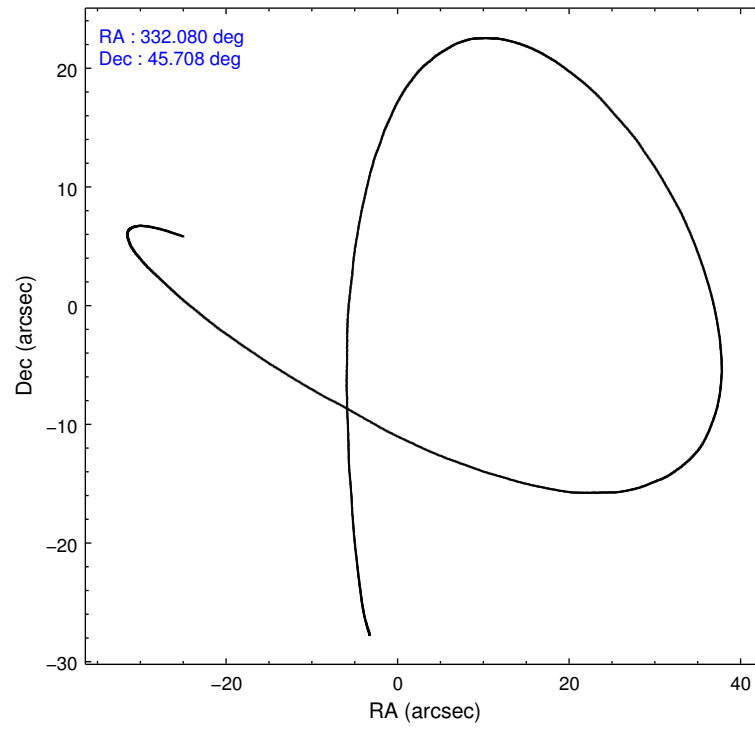
Level 1 Events

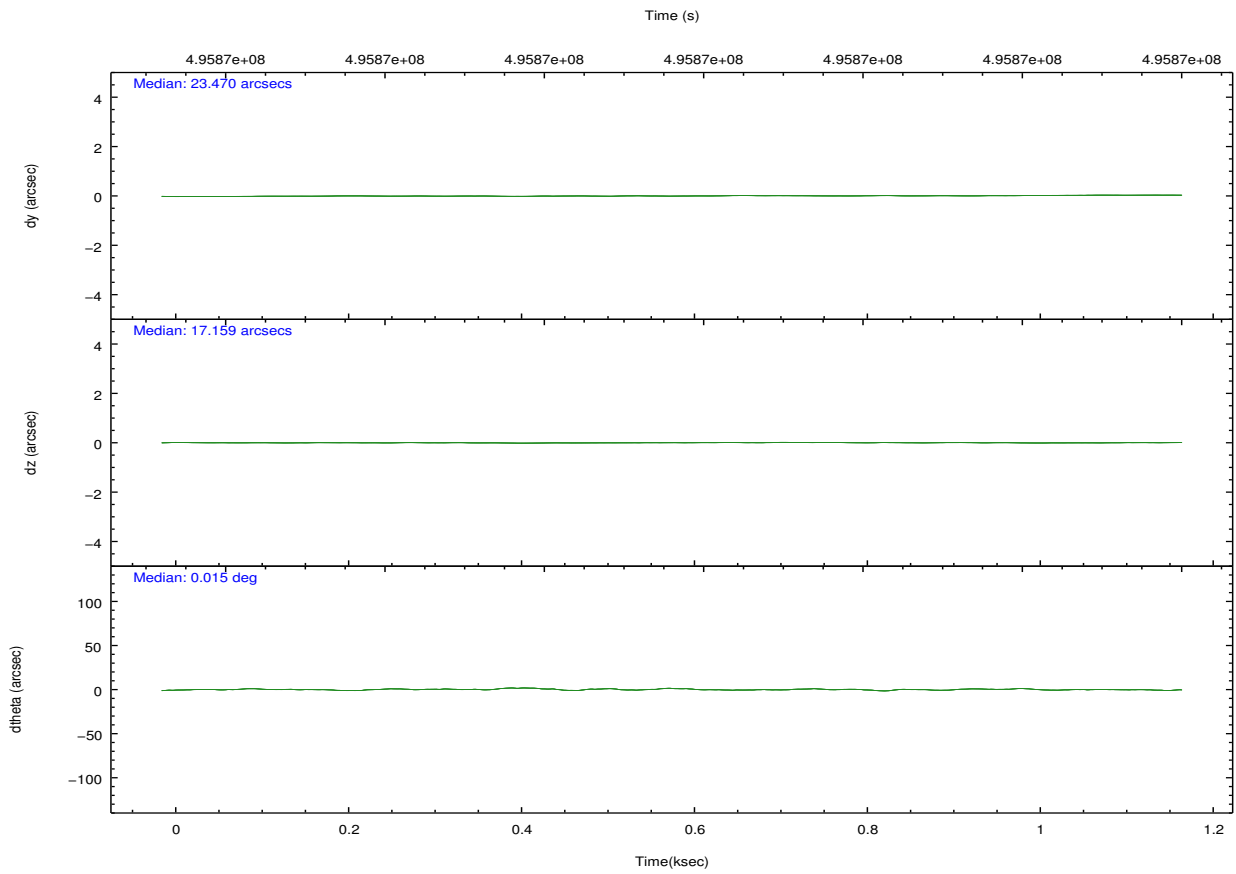
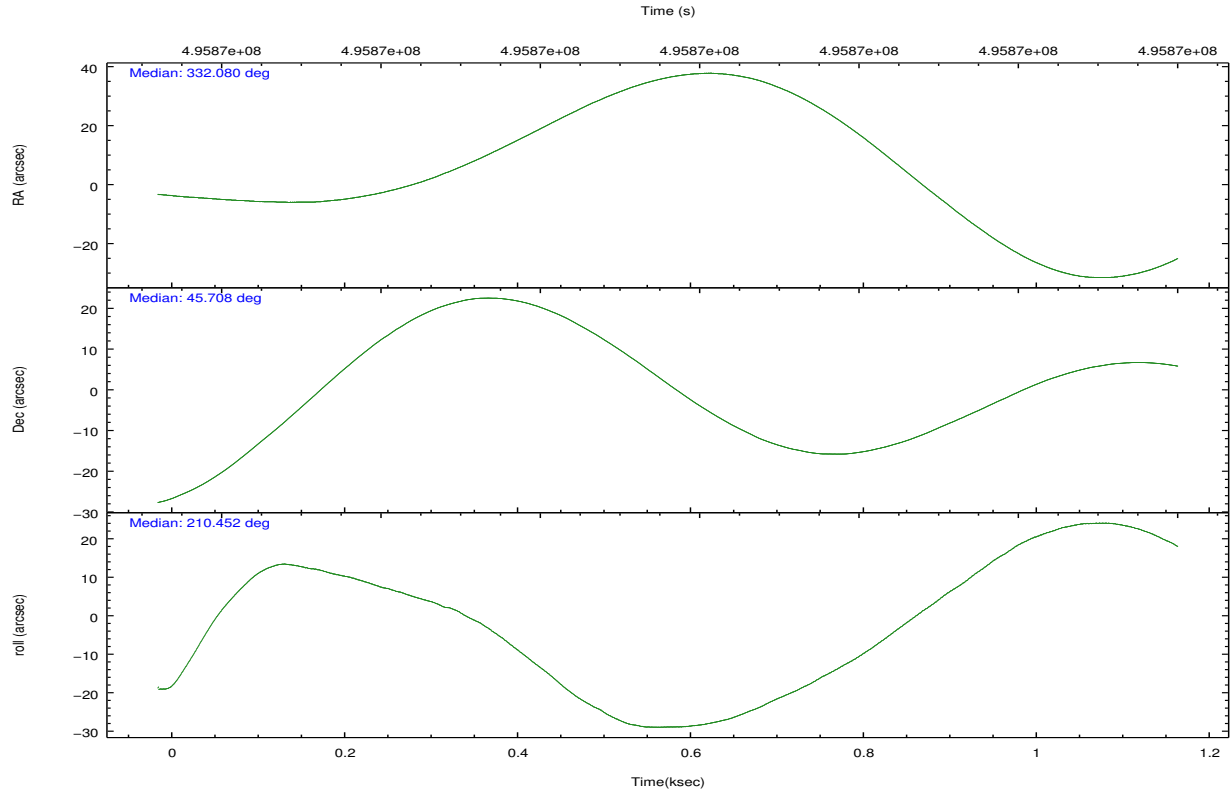
	segment 0
level 1 events	122345
rejected events	26610
rejected %	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.100173	332.0809294766586			
[deg] Pointing Dec	45.731767	45.70794402578559			
[deg] Pointing Roll	210.533887	210.4521611780715			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	495870947.184000	495870571.61071			
Observation start date	2013-09-18T05:54:40	2013-09-18T05:49:31			
[s] Observation end time (MET)	495871947.184000	495872081.4358			
Observation end date	2013-09-18T06:11:20	2013-09-18T06:14:41			

2.3 Aspect





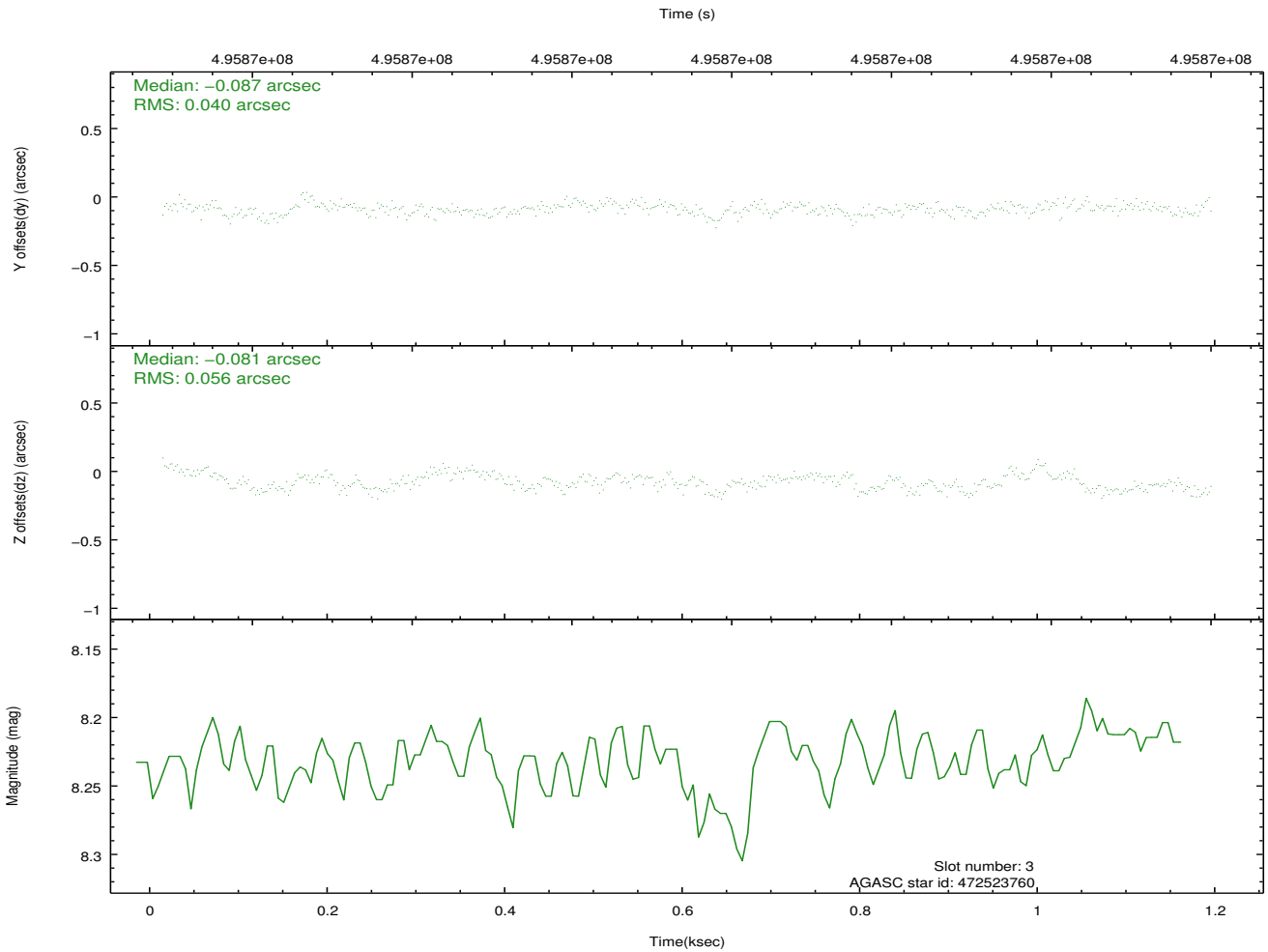
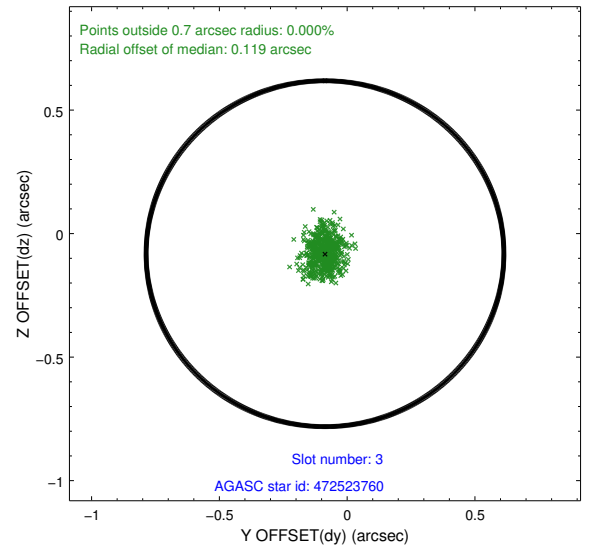
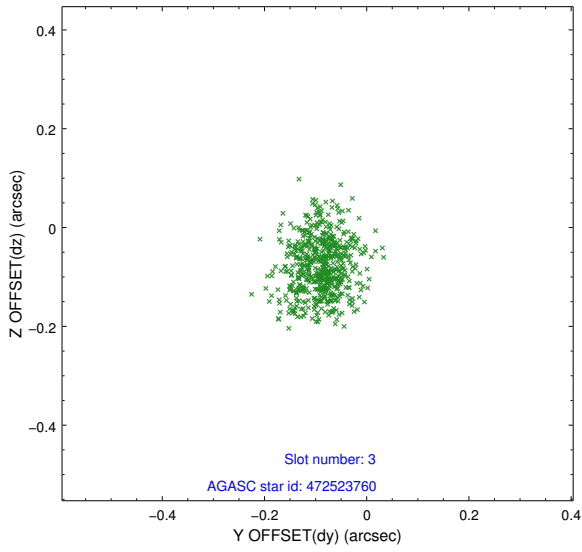
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.99	289	-0.165	-0.089	0.005	0.008	0.000000	0.000000	-779.83	-1305.36
1	FID		HRC-I-2	7.02	288	0.188	-0.060	0.008	0.013	0.000000	0.000000	830.44	-1311.62
2	FID		HRC-I-4	6.99	288	0.093	0.058	0.005	0.008	0.000000	0.000000	1266.37	992.17
3	GUIDE	used	472523760	8.23	577	-0.087	-0.081	0.073	0.121	331.645363	45.403260	1588.29	433.44
4	GUIDE	used	472533912	9.15	576	0.170	0.454	0.139	0.254	331.791136	46.368695	-502.61	-2363.36
5	GUIDE	used	472651904	6.25	577	-0.097	-0.192	0.112	0.176	332.170077	45.742257	-172.30	53.11
6	GUIDE	used	472655152	9.42	575	0.144	0.029	0.176	0.316	332.504239	45.862991	-1115.10	107.57
7	GUIDE	used	420754040	9.06	573	-0.137	-0.193	0.127	0.266	331.917939	44.882543	1948.60	2398.85

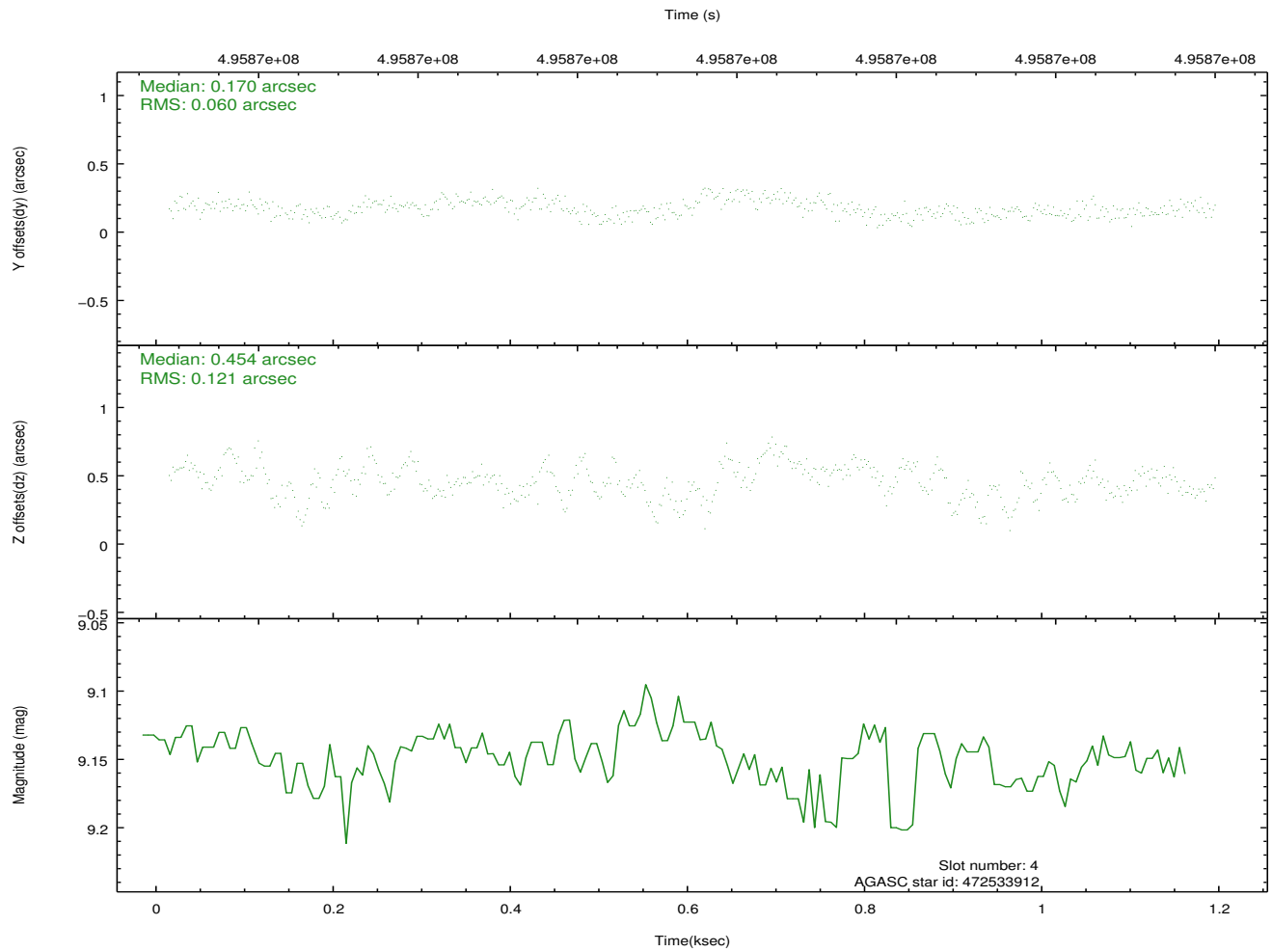
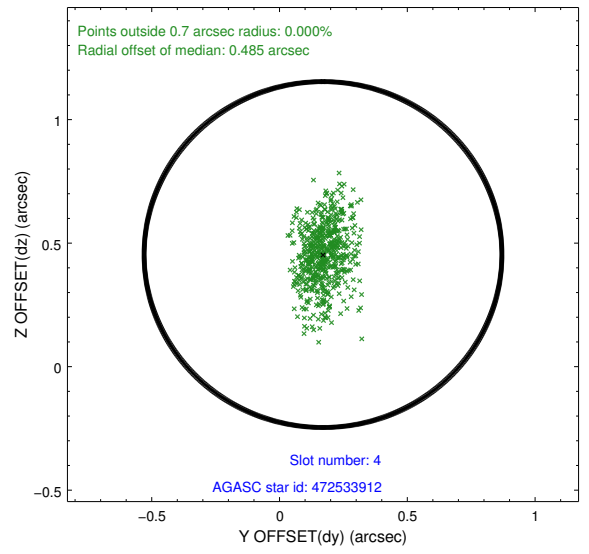
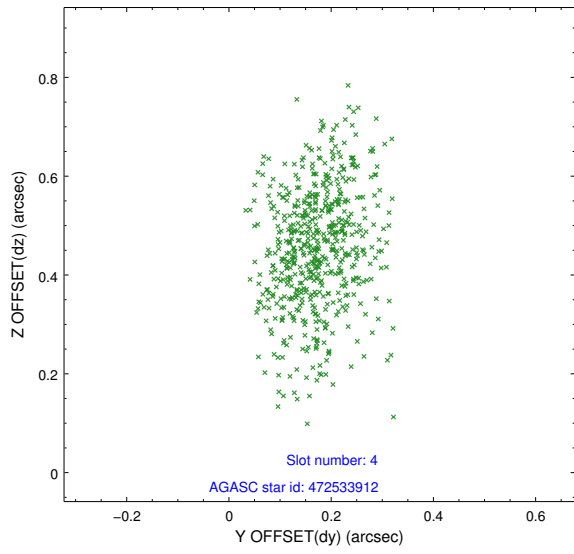
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2.4 Star Slots

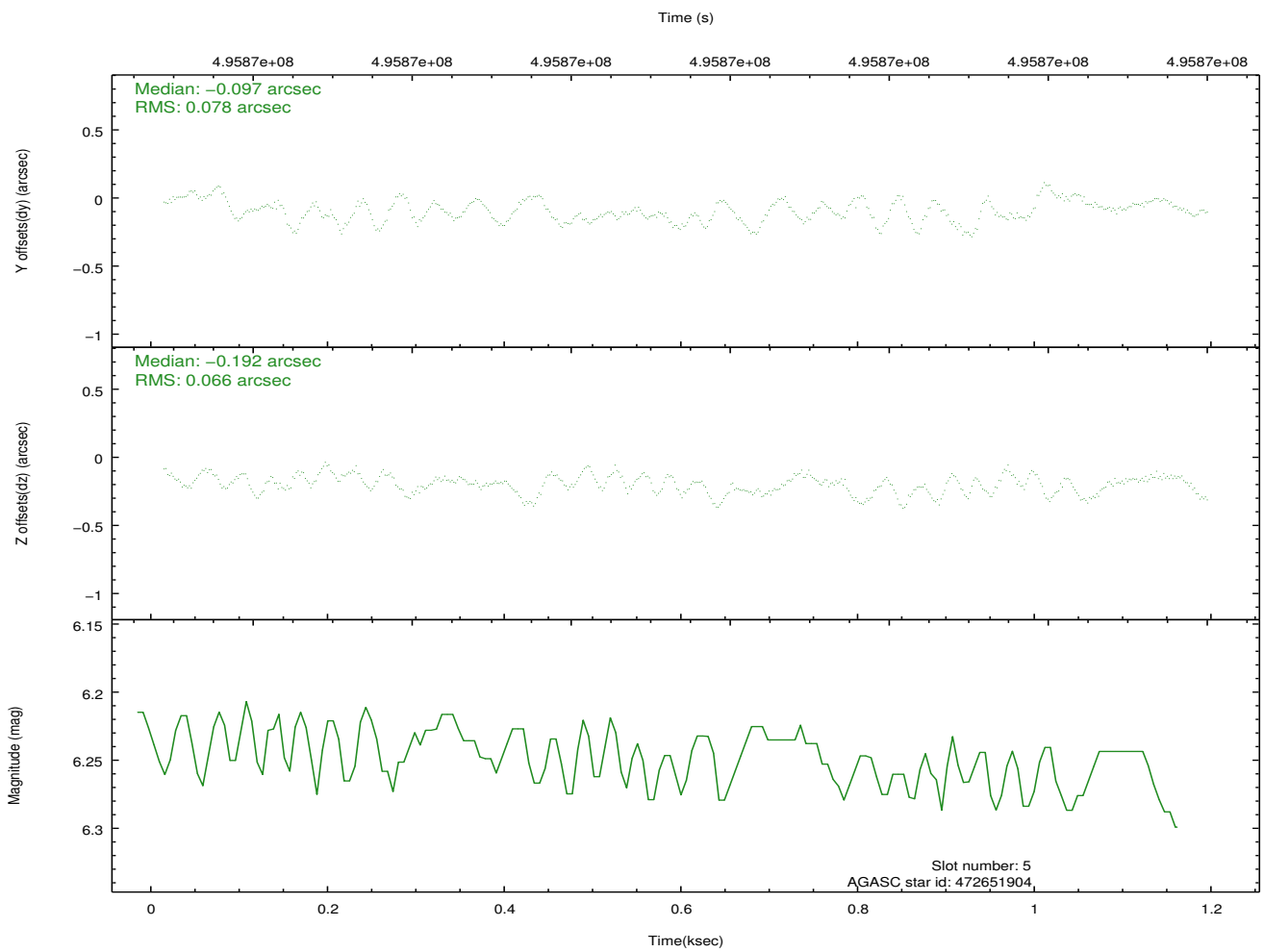
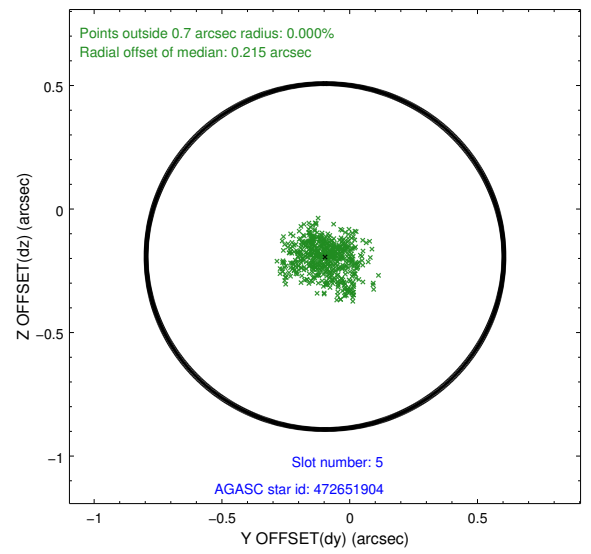
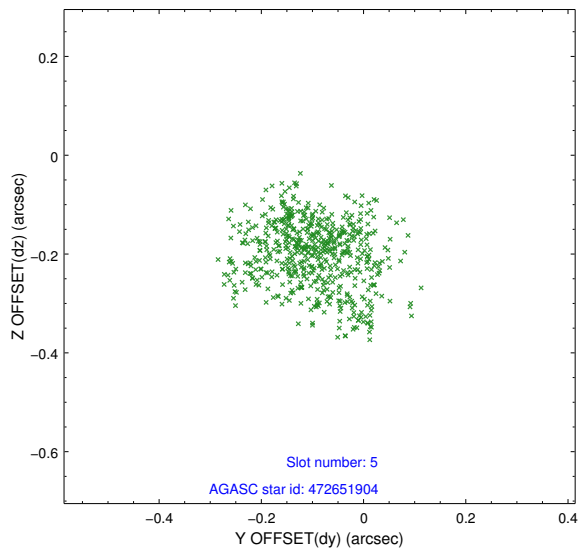
2.4.1 Slot 3



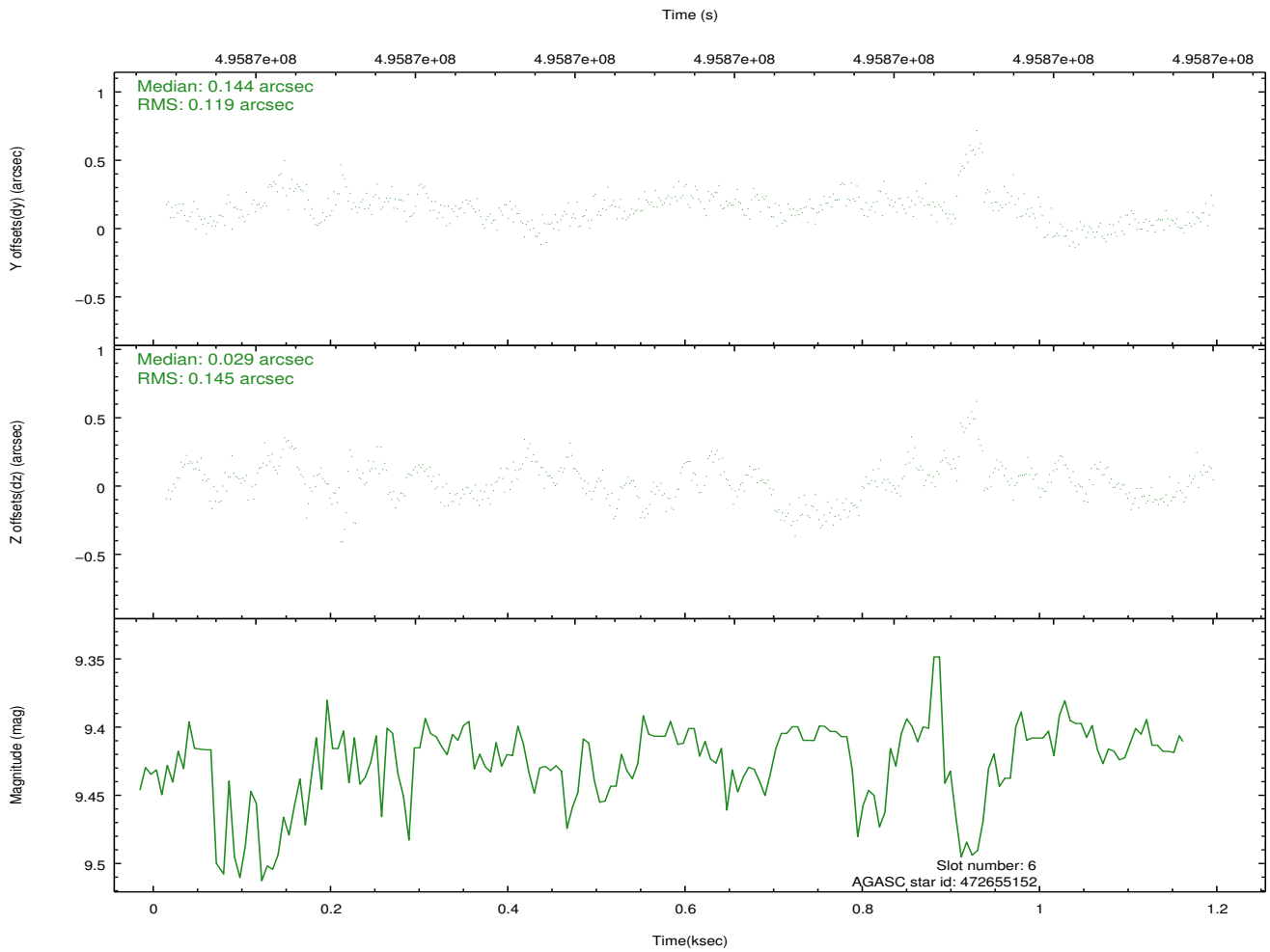
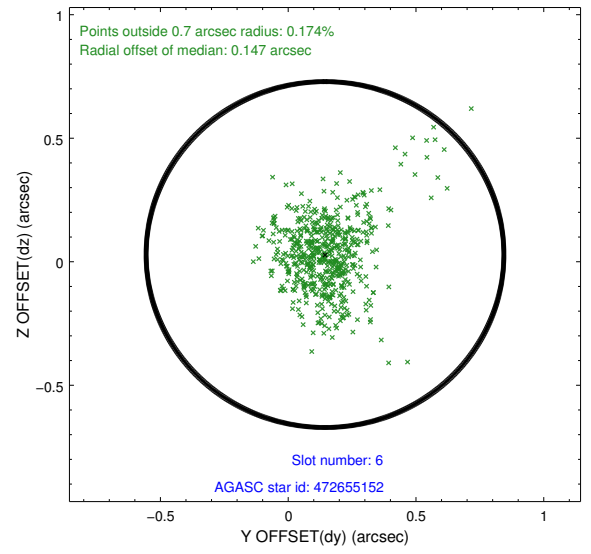
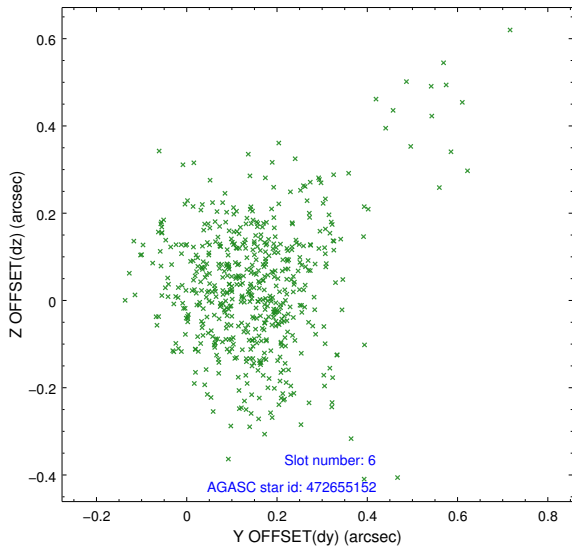
2.4.2 Slot 4



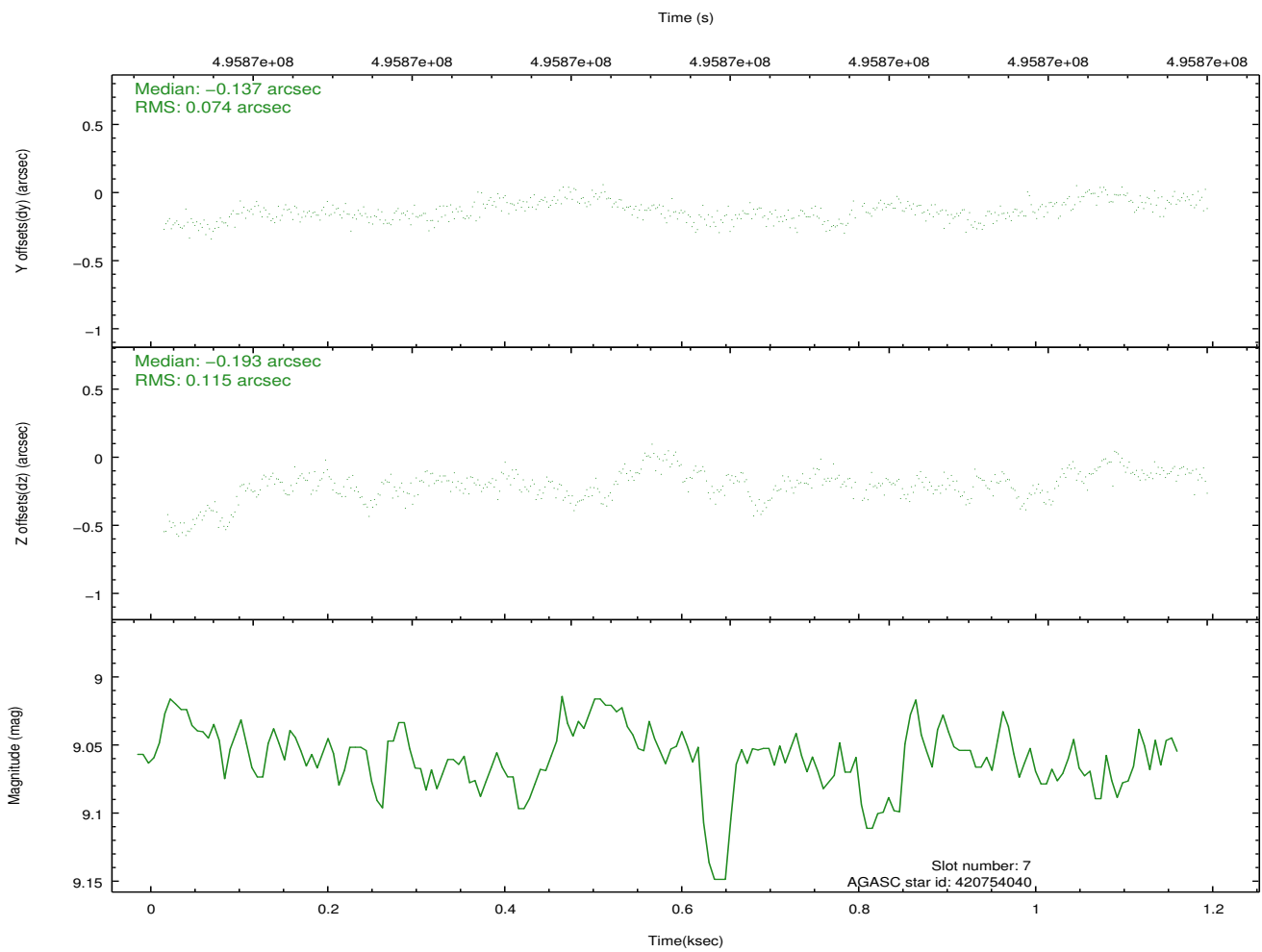
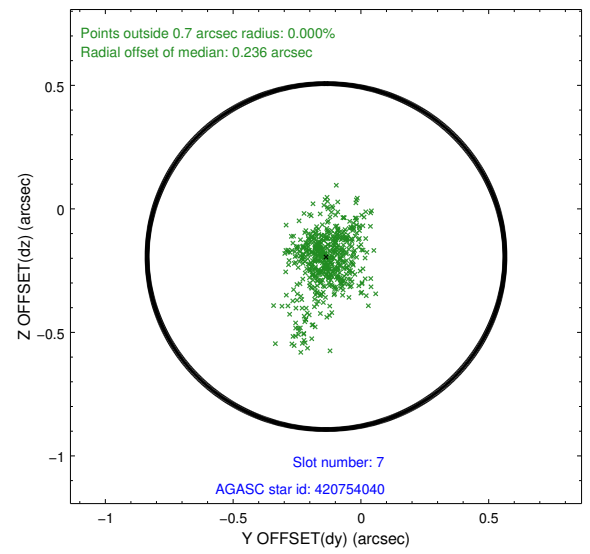
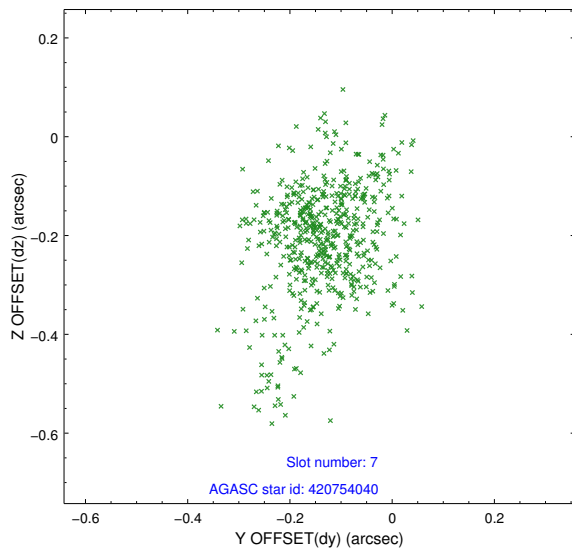
2.4.3 Slot 5



2.4.4 Slot 6

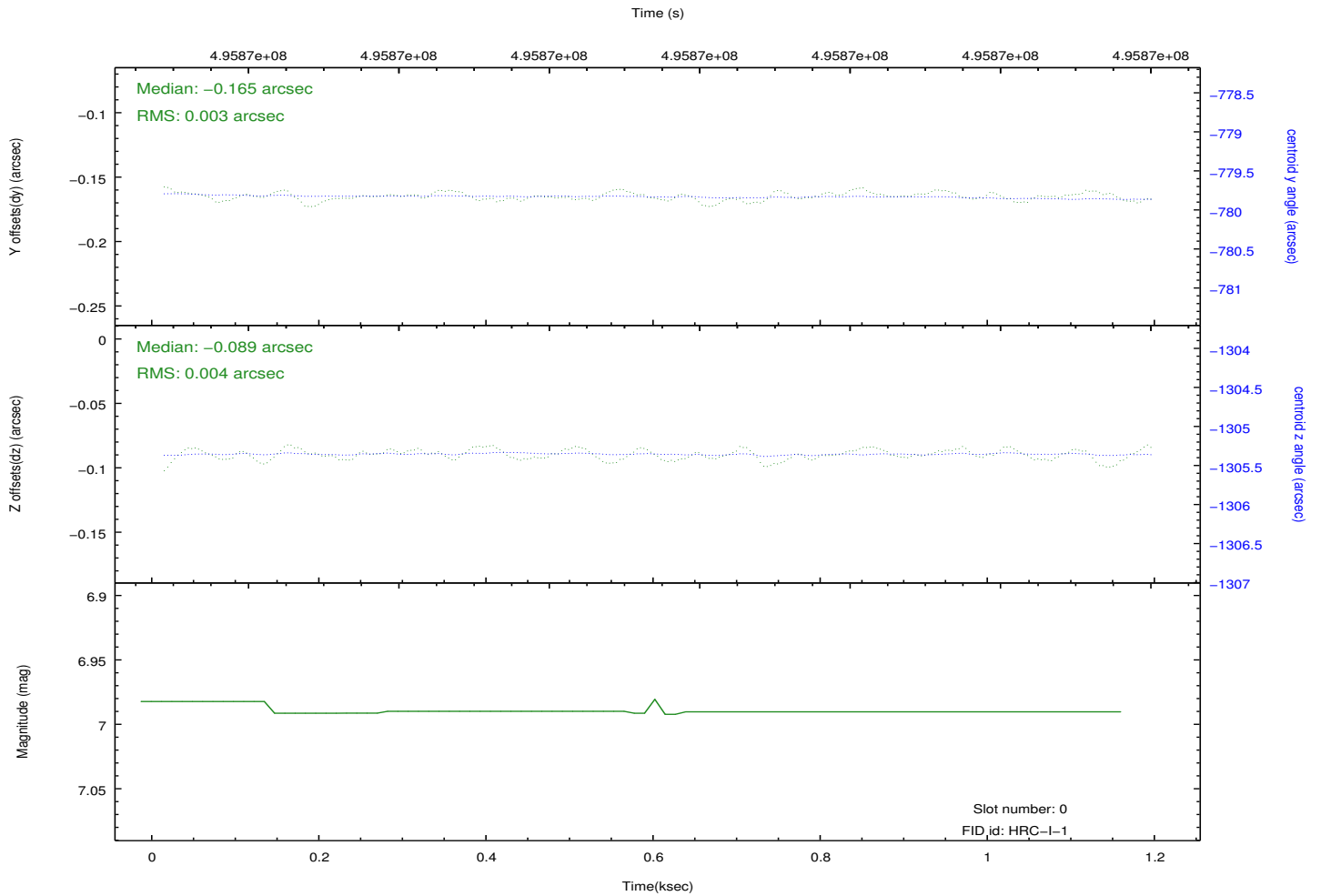
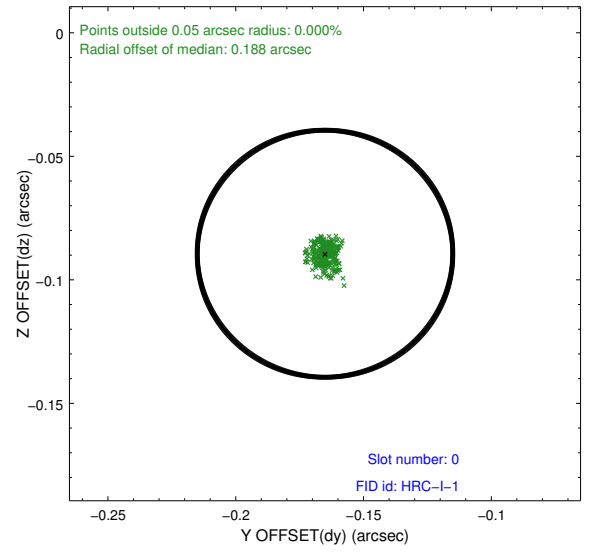
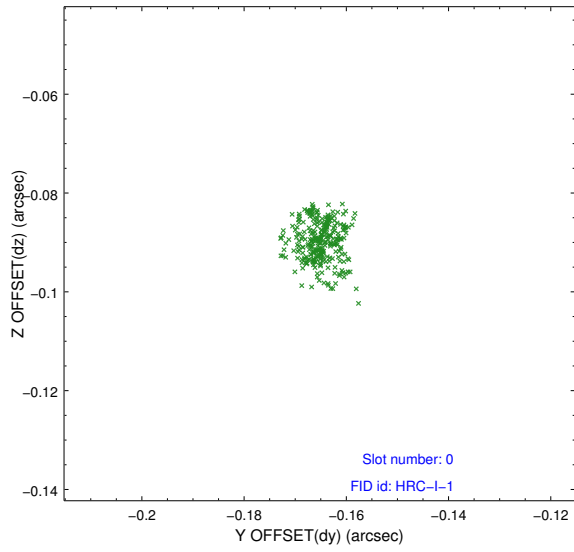


2.4.5 Slot 7

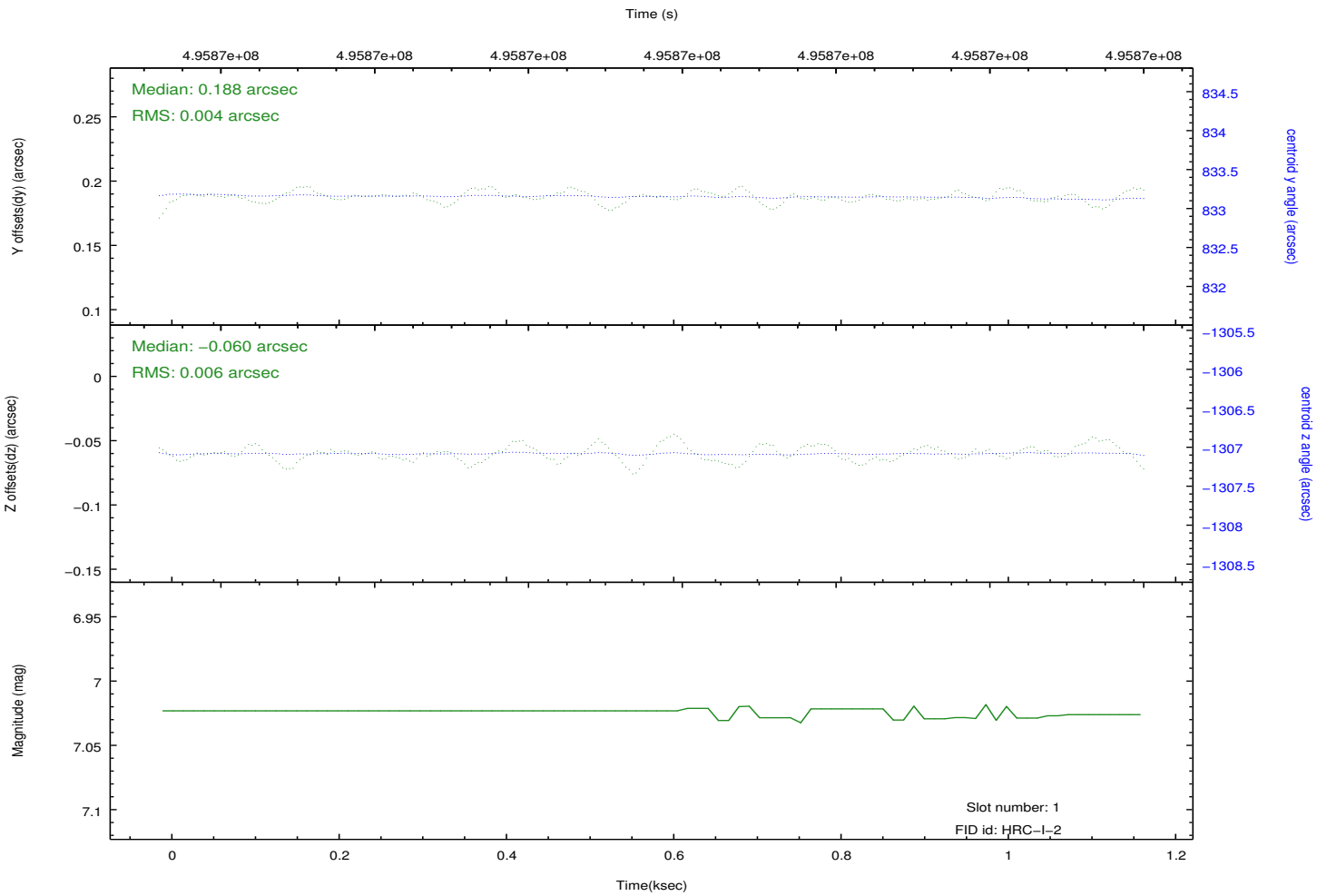
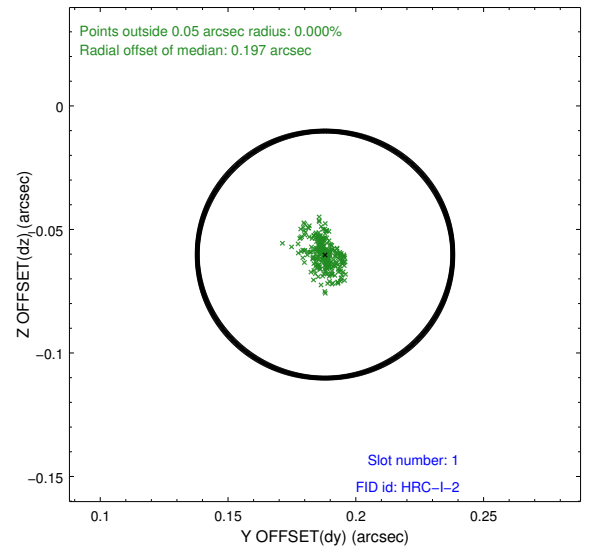
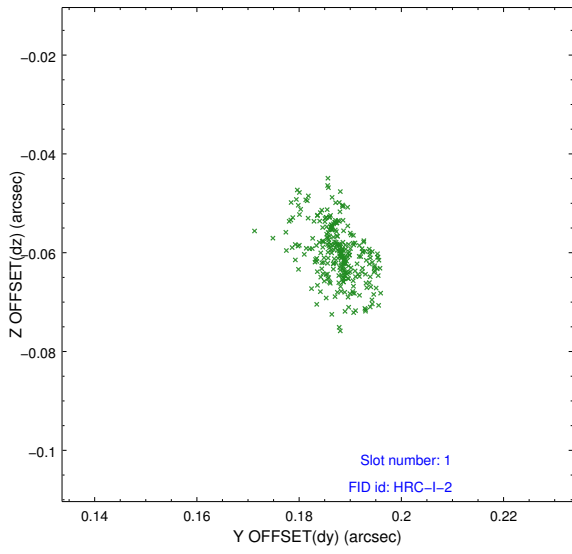


2.5 FID Slots

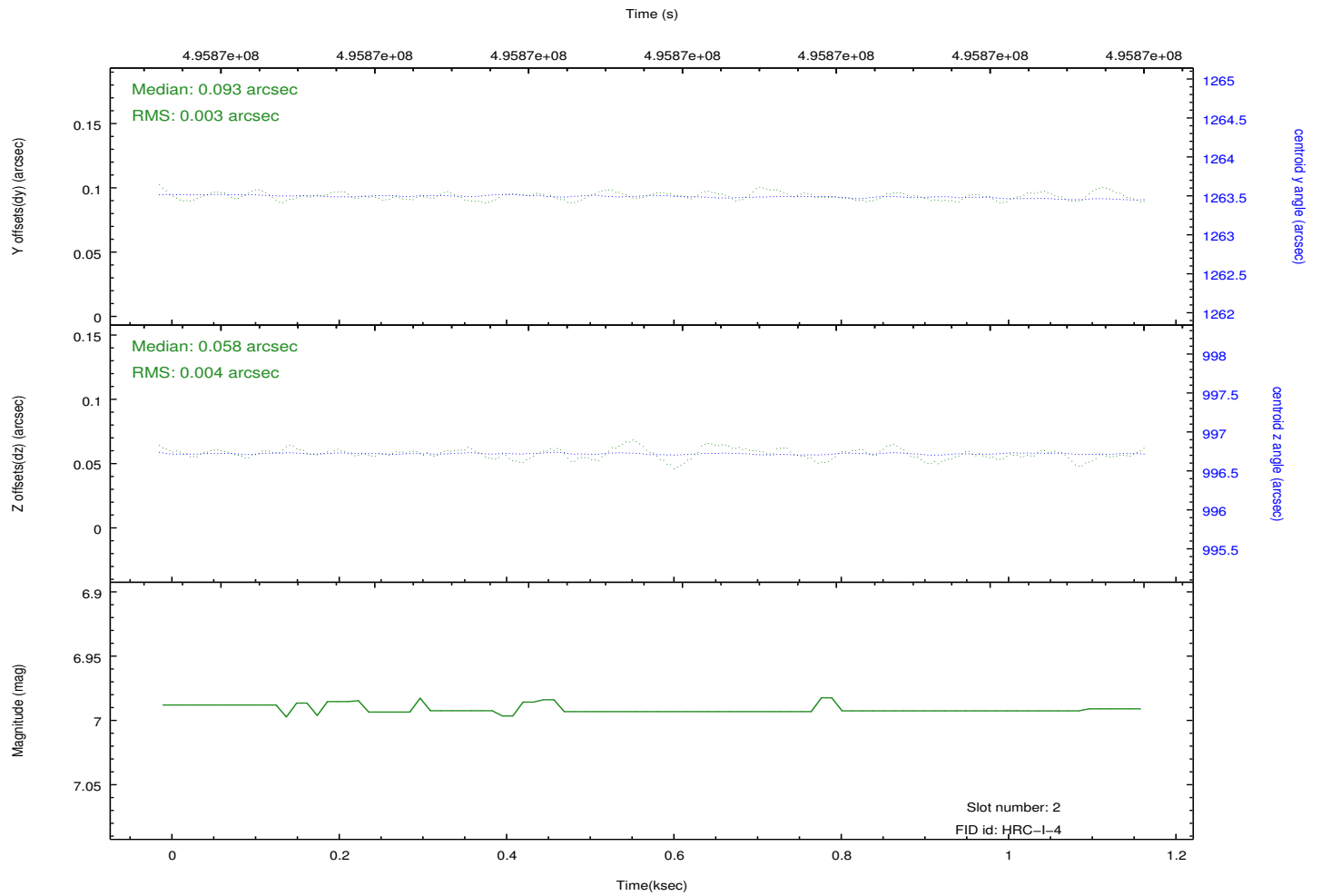
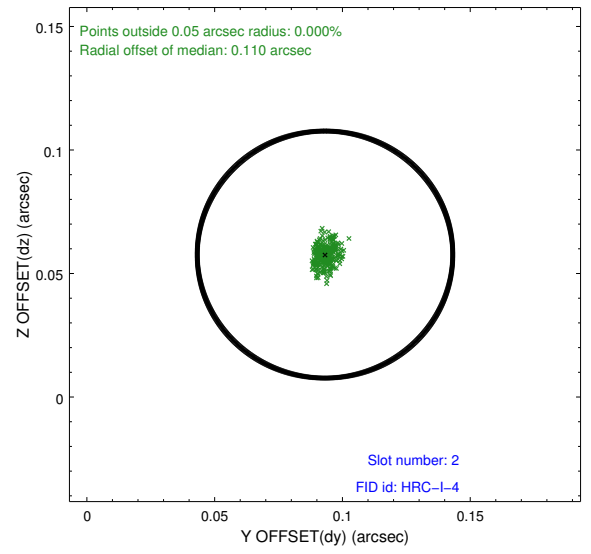
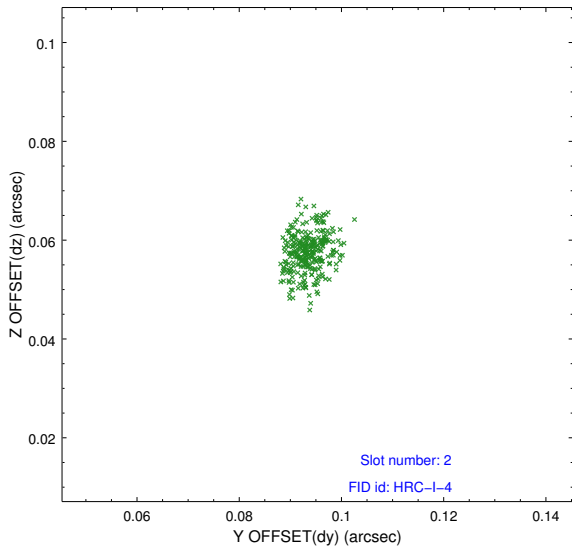
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1797750642896

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.