

V&V Reference Report

L2 ASCDS Version : 10

Observation 15445 - L2 Version 2
Chandra X-Ray Center

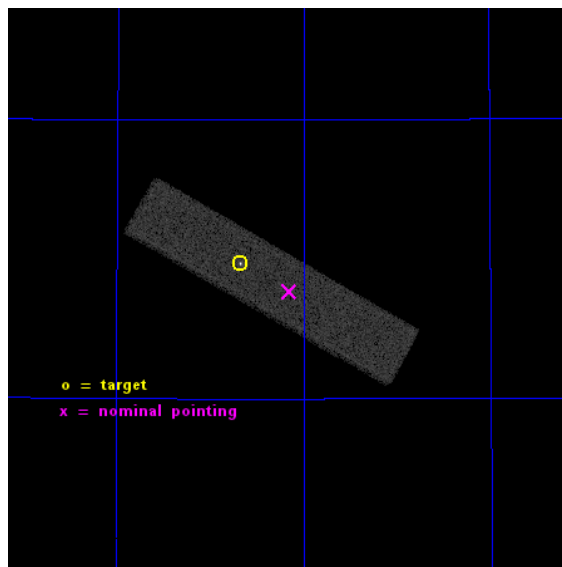
L2 Processing Date : Dec 6 2014

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1 Front

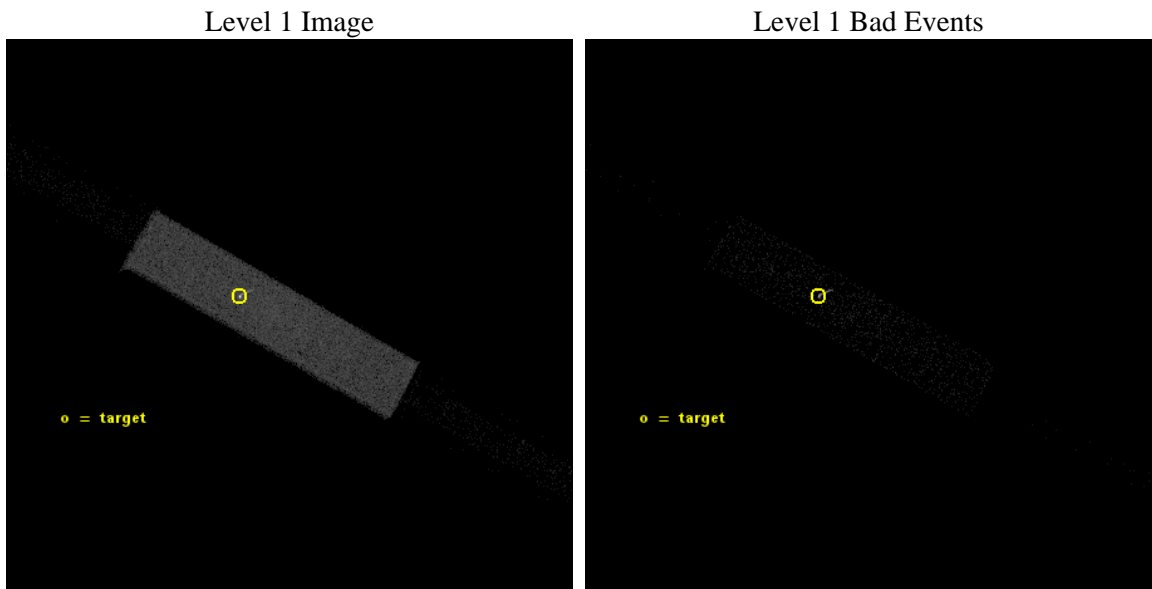
seq_num	291124	Sequence number
obs_id	15445	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.03770750092	Nominal RA [deg]
dec_nom	45.692479232054	Nominal Dec [deg]
roll_nom	209.05644164307	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1153.381313026	[s]
livetime	1146.7381392537	Ontime multiplied by DTCOR
l2events	47444	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



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	1153.381313026	[s]
caldsver	4.6.4	 	l1events	76094	Number of level 1 events
date	2014-12-06T11:21:41	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

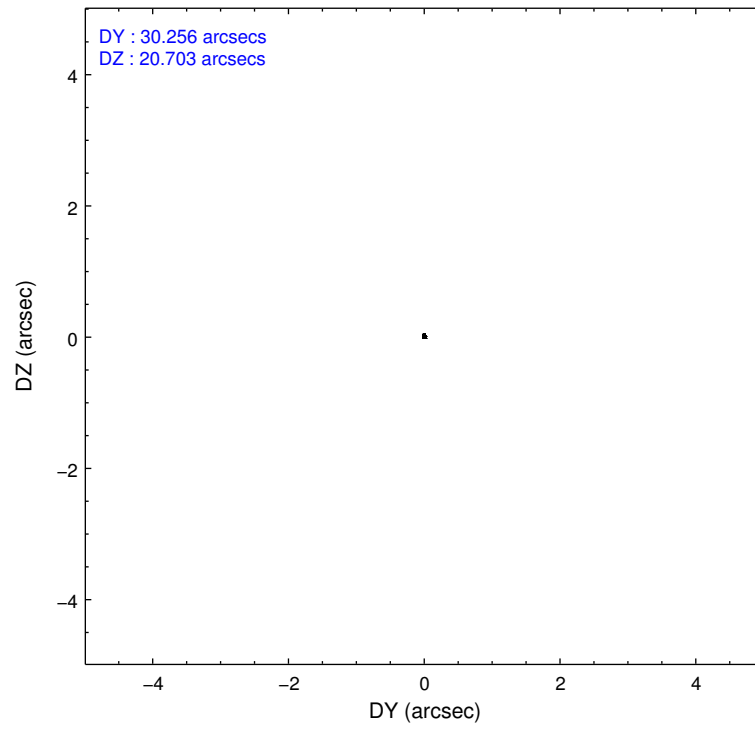
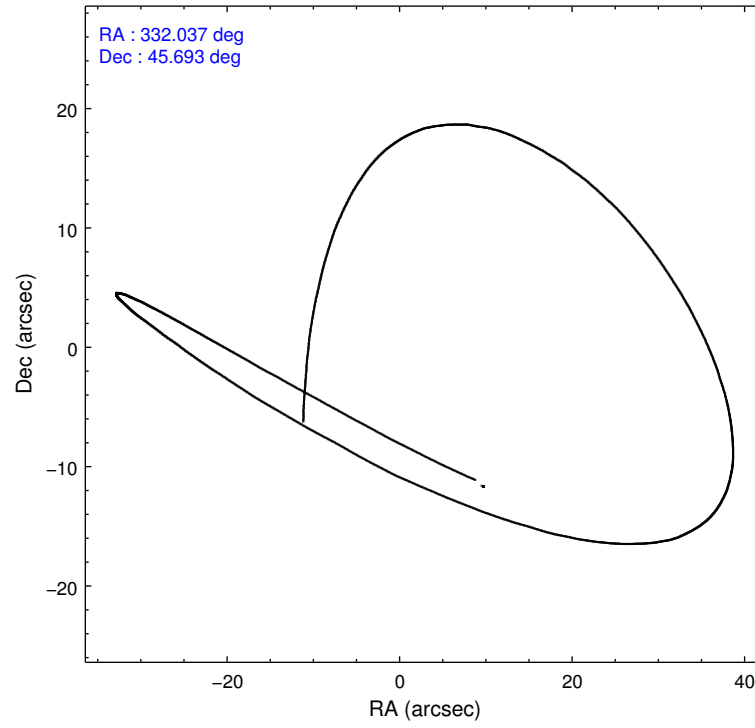
	segment 1	segment 2	segment 3
level 1 events	630	74813	651
rejected events	630	17107	651
rejected %	100%	22%	100%

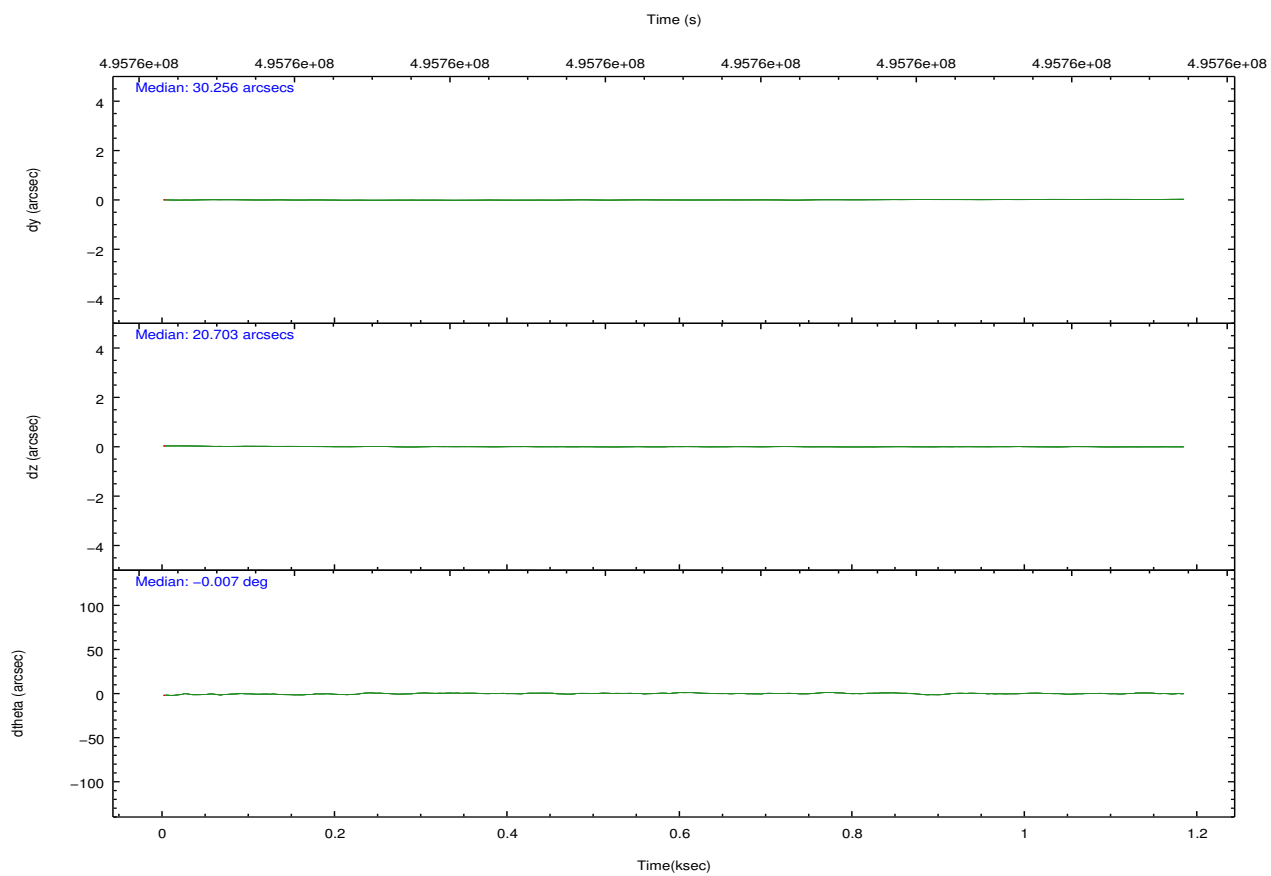
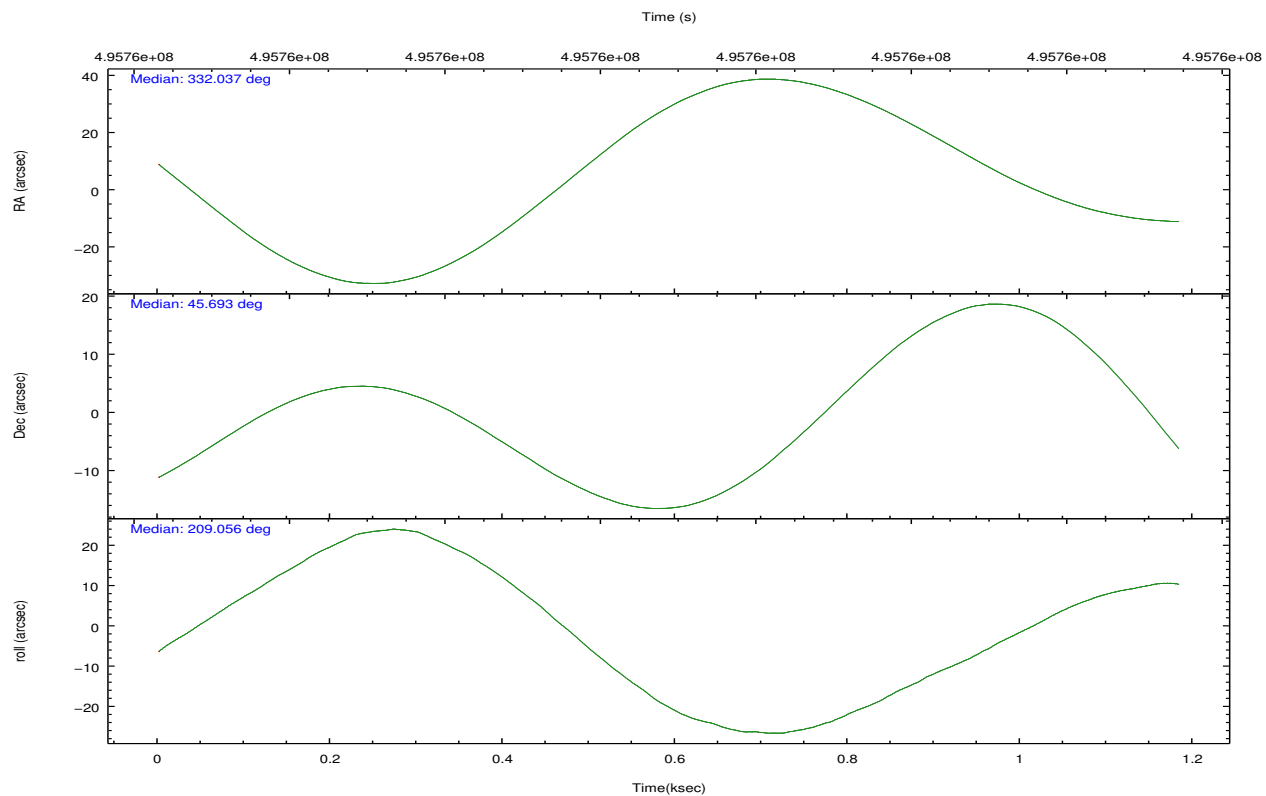
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.058002	332.0377075009156
[deg] Pointing Dec	45.716988	45.69247923205379
[deg] Pointing Roll	208.974586	209.0564416430668
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	495757881.184000	495757505.90455
Observation start date	2013-09-16T22:30:14	2013-09-16T22:25:05
[s] Observation end time (MET)	495758881.184000	495759015.72963
Observation end date	2013-09-16T22:46:54	2013-09-16T22:50:15

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



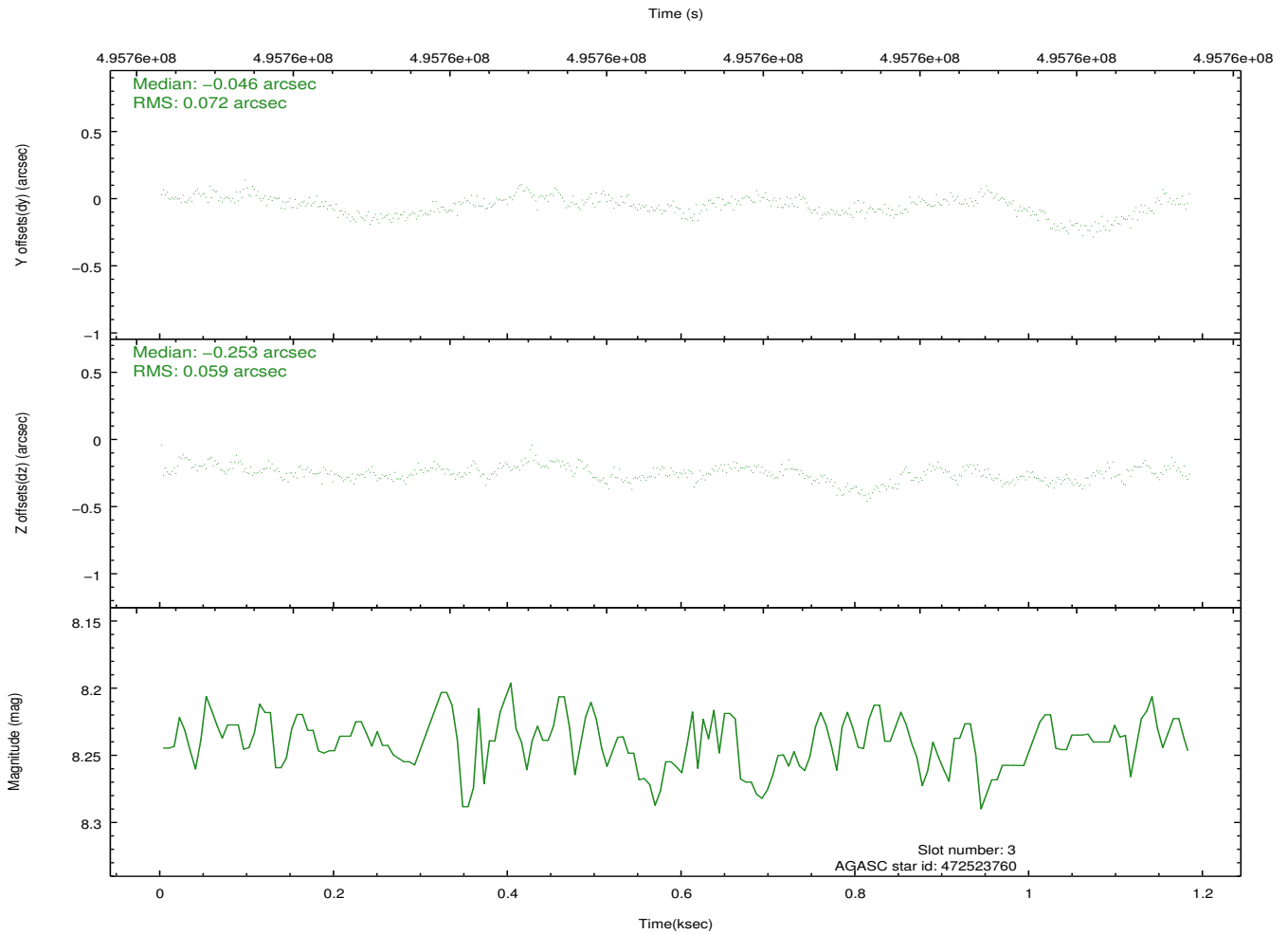
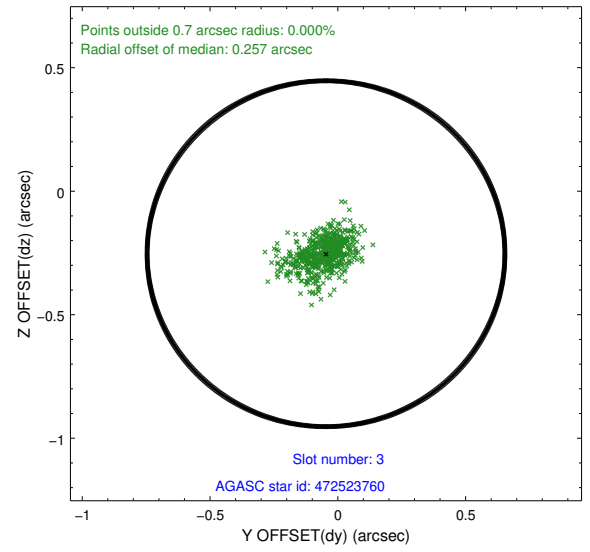
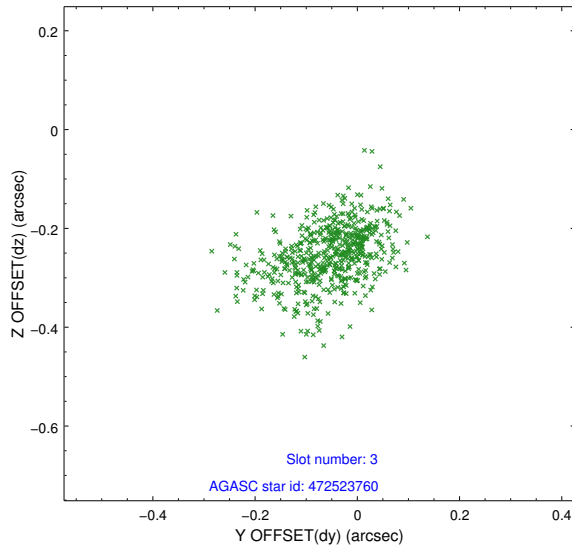


Slot Statistics

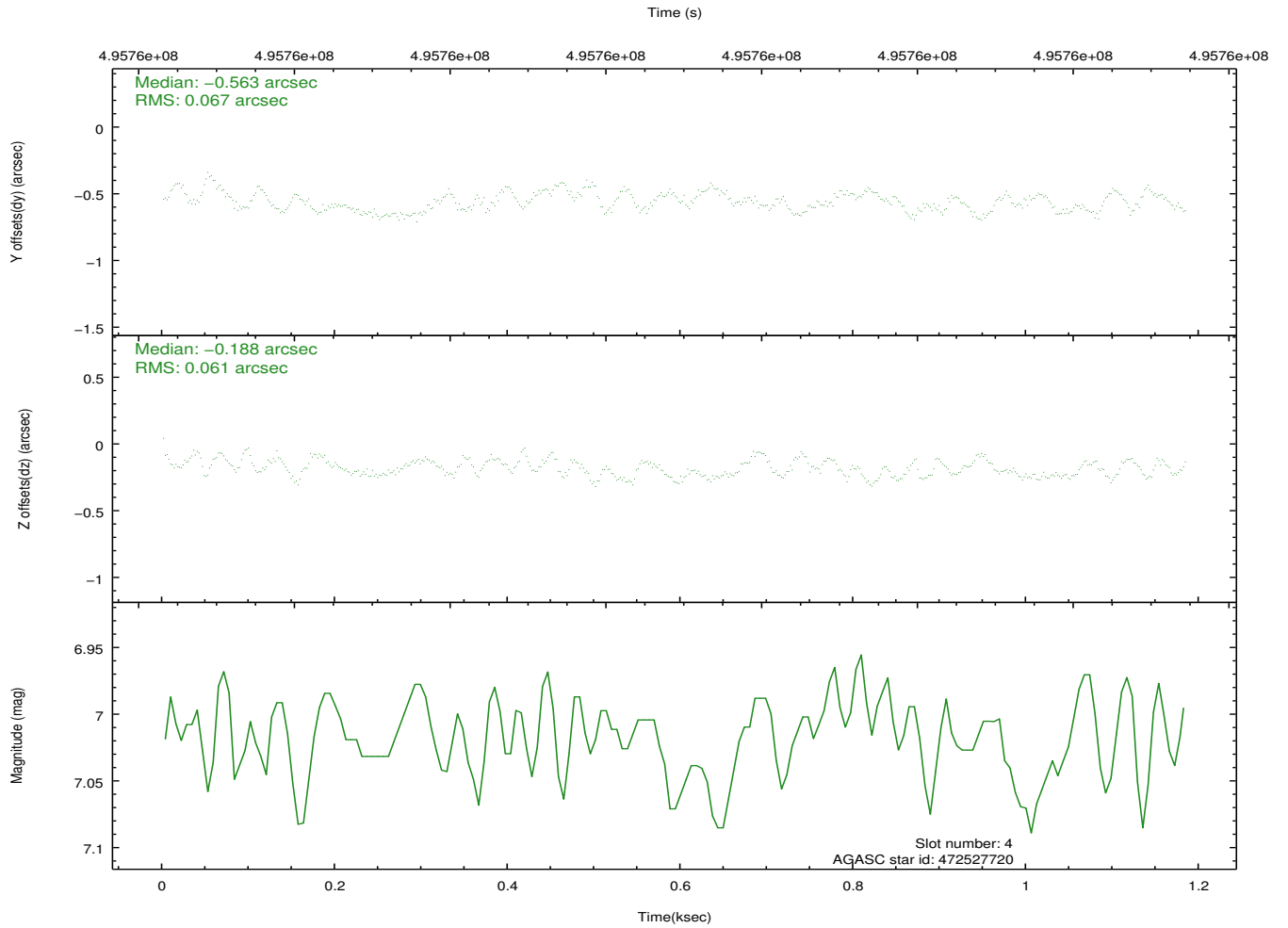
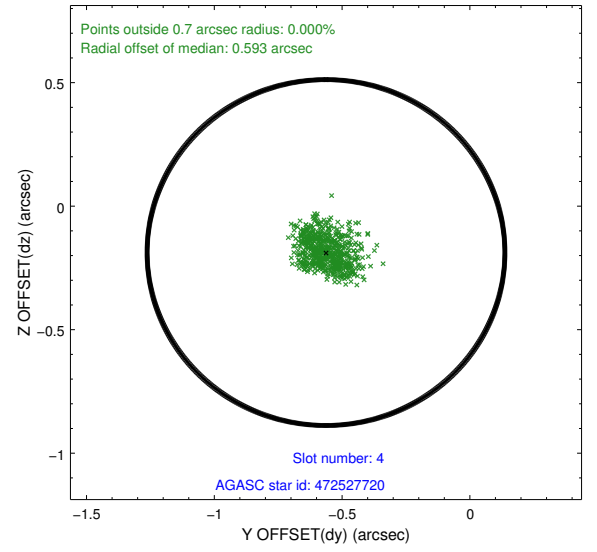
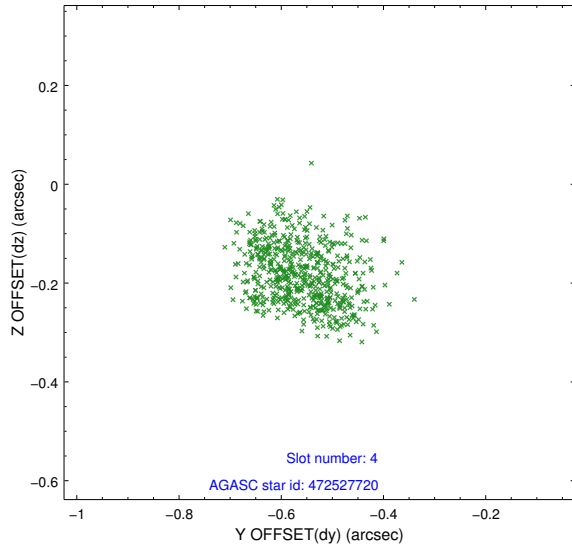
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.01	289	0.207	-0.127	0.008	0.014	0.000000	0.000000	1214.75	-462.31
1	FID		HRC-S-3	7.06	289	-0.142	-0.068	0.005	0.008	0.000000	0.000000	-1183.83	558.17
2	FID		HRC-S-4	6.99	289	0.340	-0.101	0.008	0.014	0.000000	0.000000	1209.31	564.36
3	GUIDE	used	472523760	8.24	578	-0.046	-0.253	0.095	0.174	331.645363	45.403260	1458.07	484.35
4	GUIDE	used	472527720	7.02	578	-0.563	-0.188	0.100	0.151	331.460205	45.112509	2381.77	1167.94
5	GUIDE	used	472533912	9.15	571	0.365	0.297	0.168	0.278	331.791136	46.368695	-552.77	-2368.14
6	GUIDE	used	472655152	9.42	575	0.196	-0.208	0.164	0.265	332.504239	45.862991	-1235.98	79.25
7	GUIDE	used	472659832	9.44	574	0.073	0.368	0.173	0.324	332.780399	46.098139	-2248.57	-329.44

2.4 Star Slots

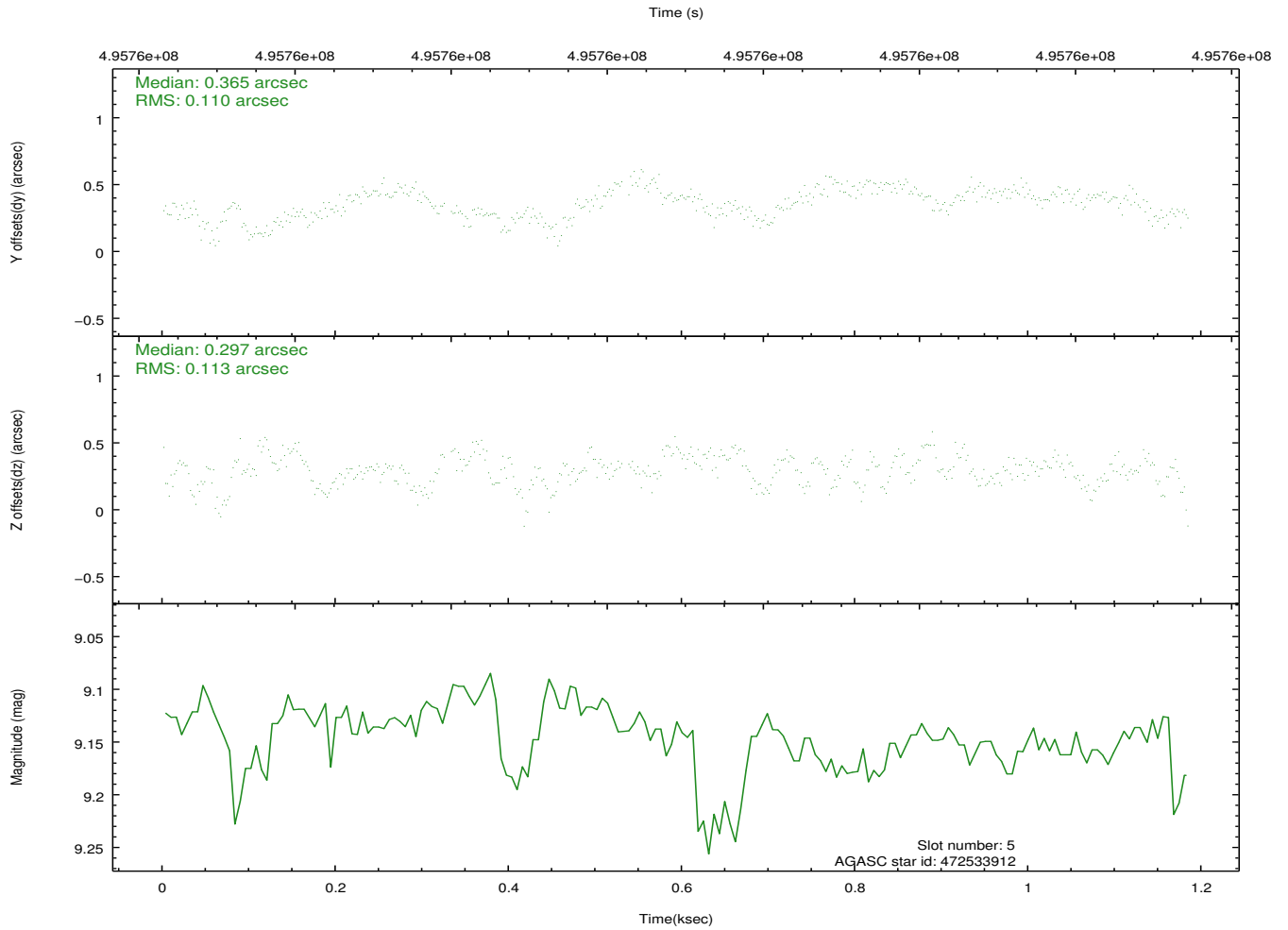
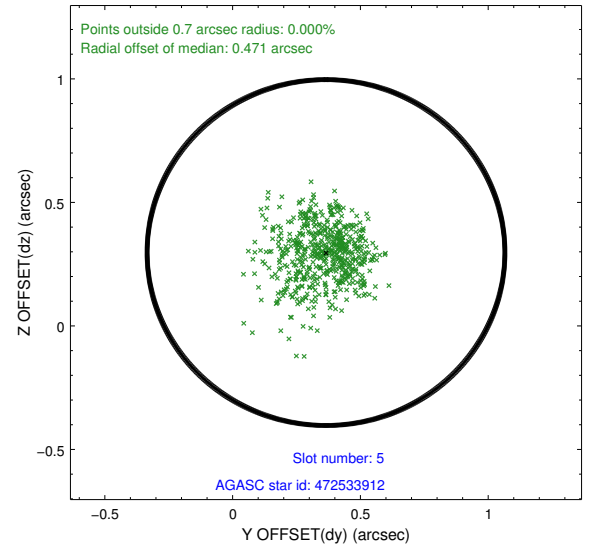
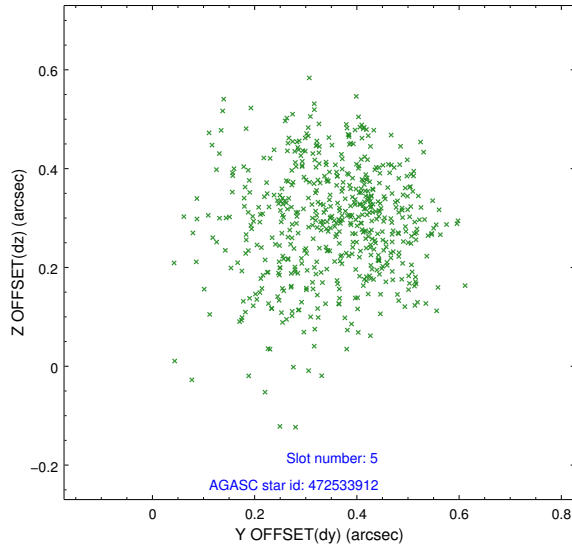
2.4.1 Slot 3



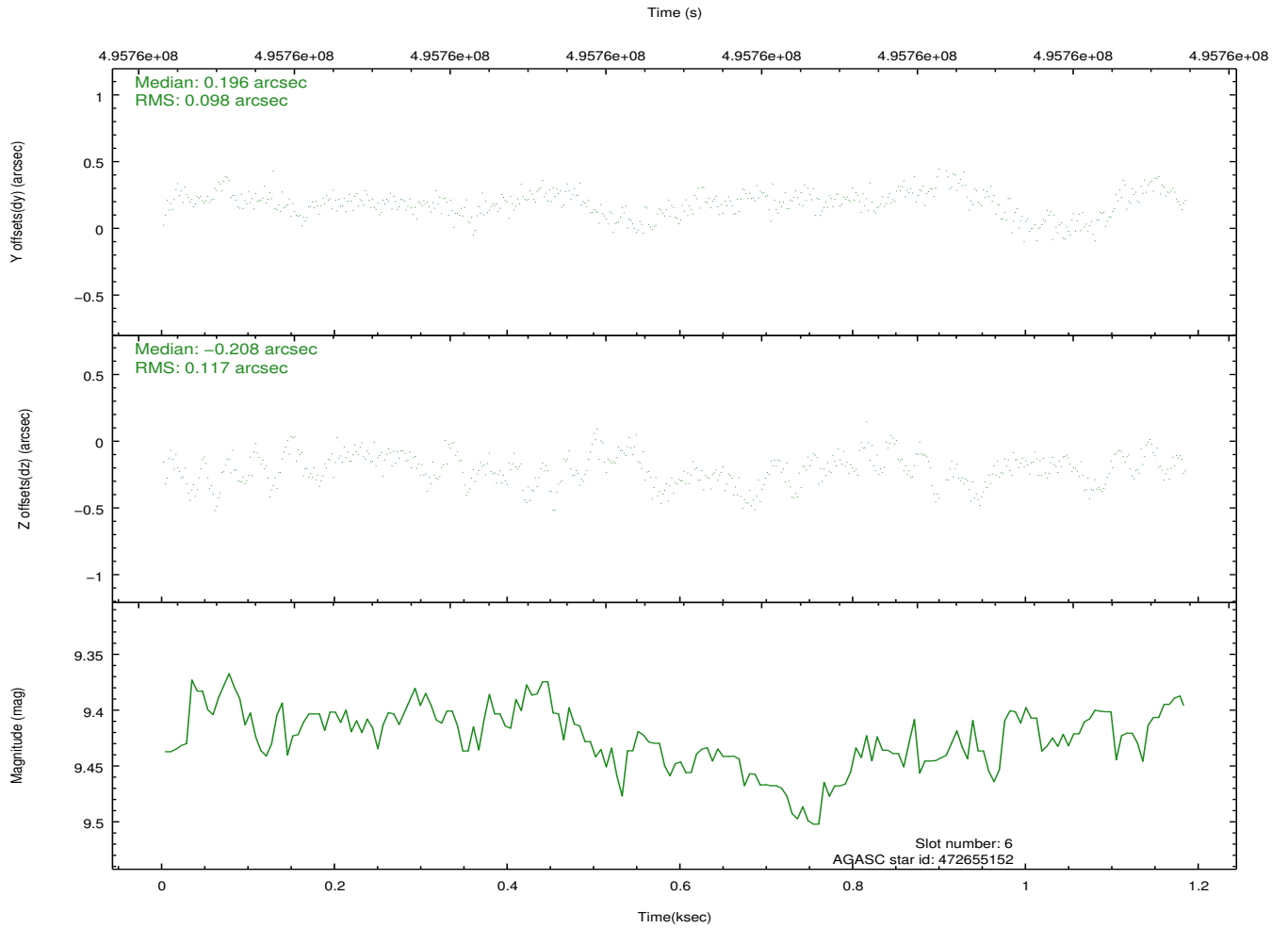
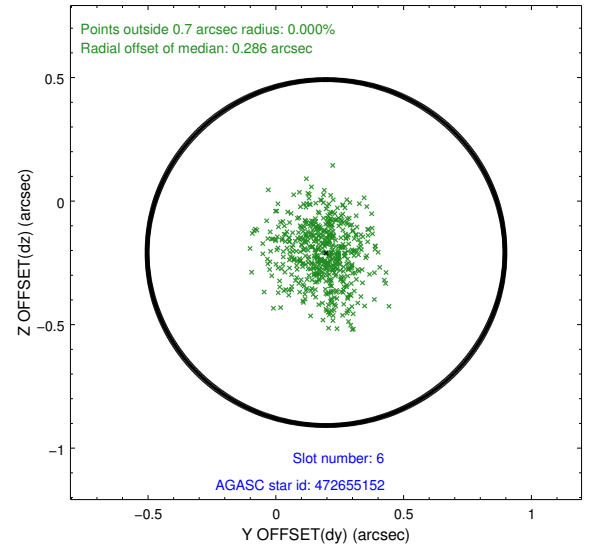
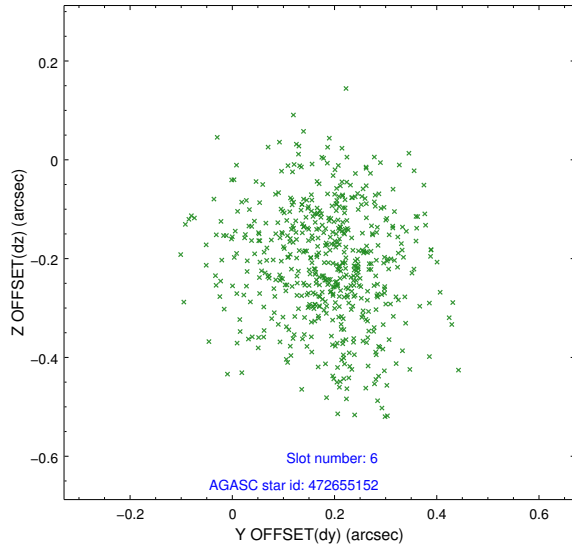
2.4.2 Slot 4



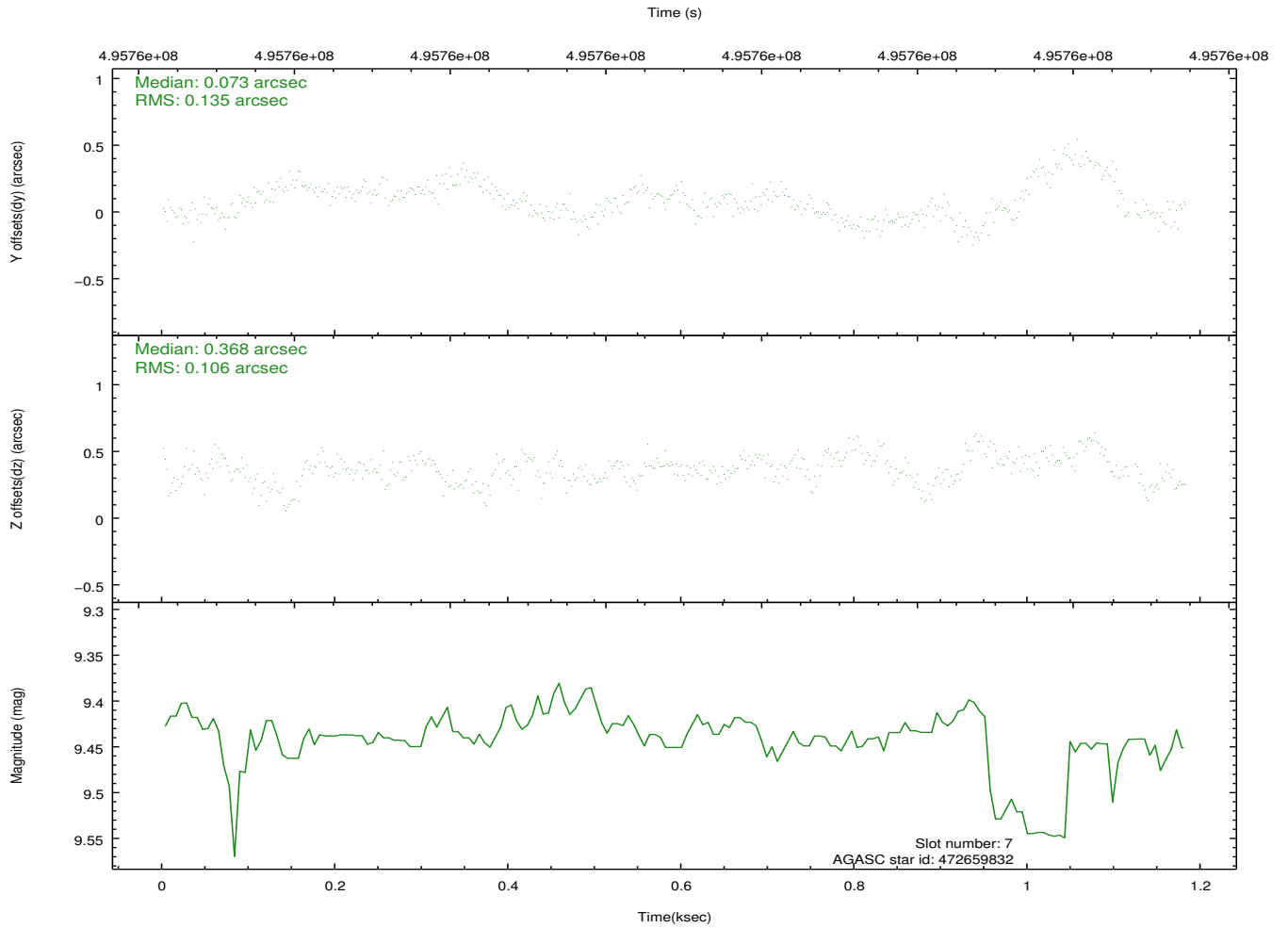
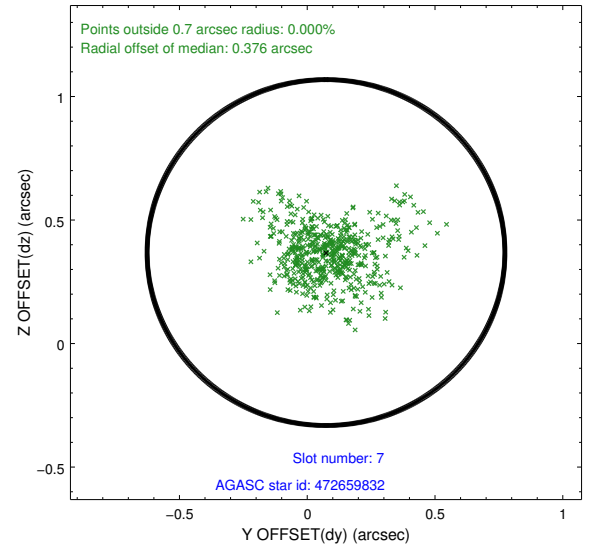
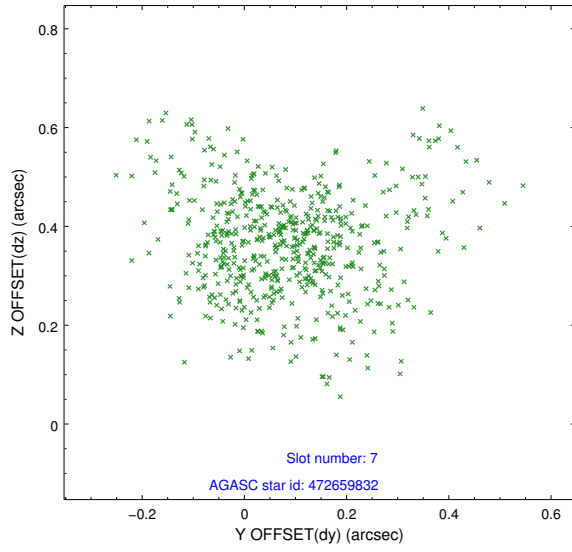
2.4.3 Slot 5



2.4.4 Slot 6

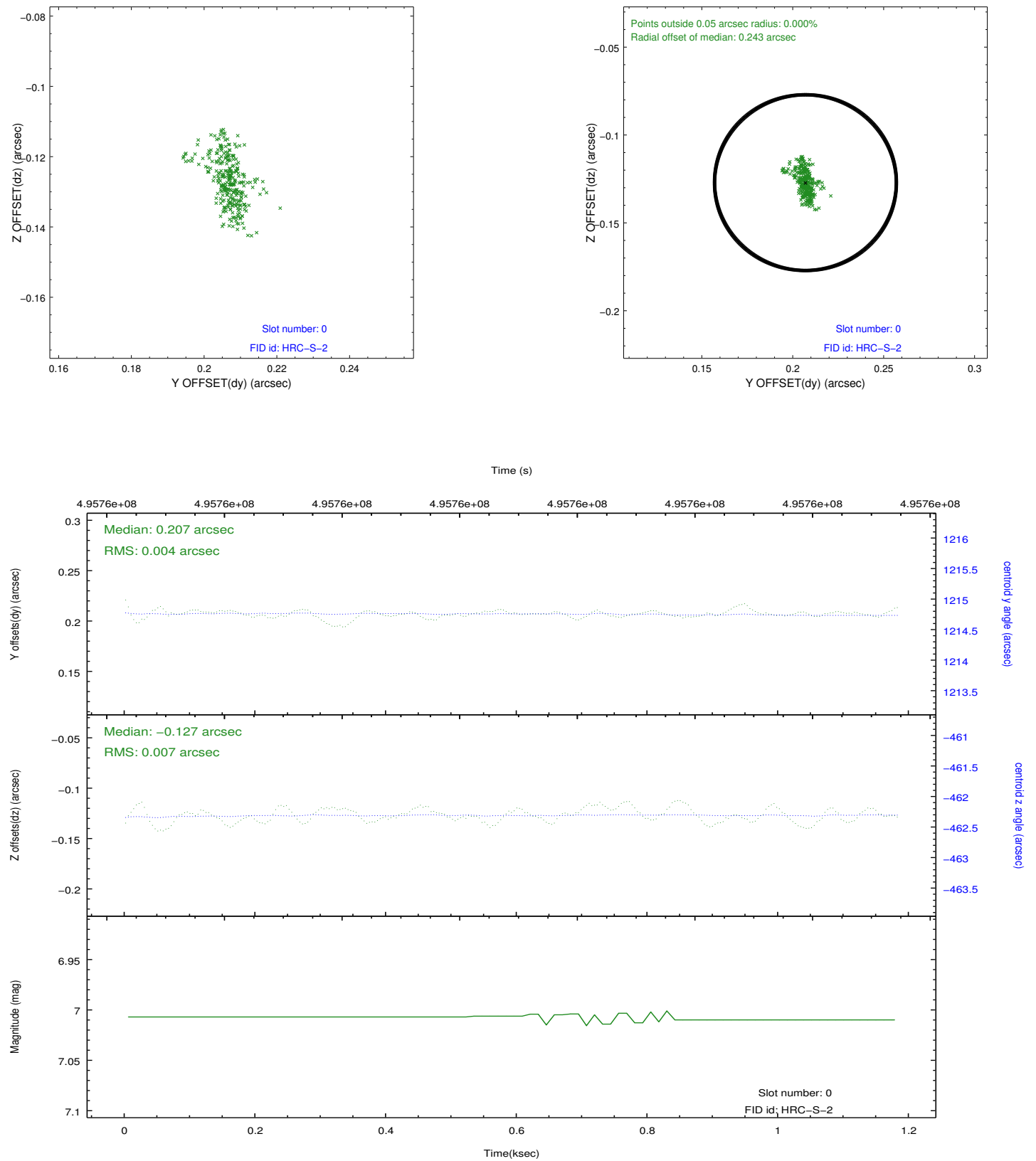


2.4.5 Slot 7

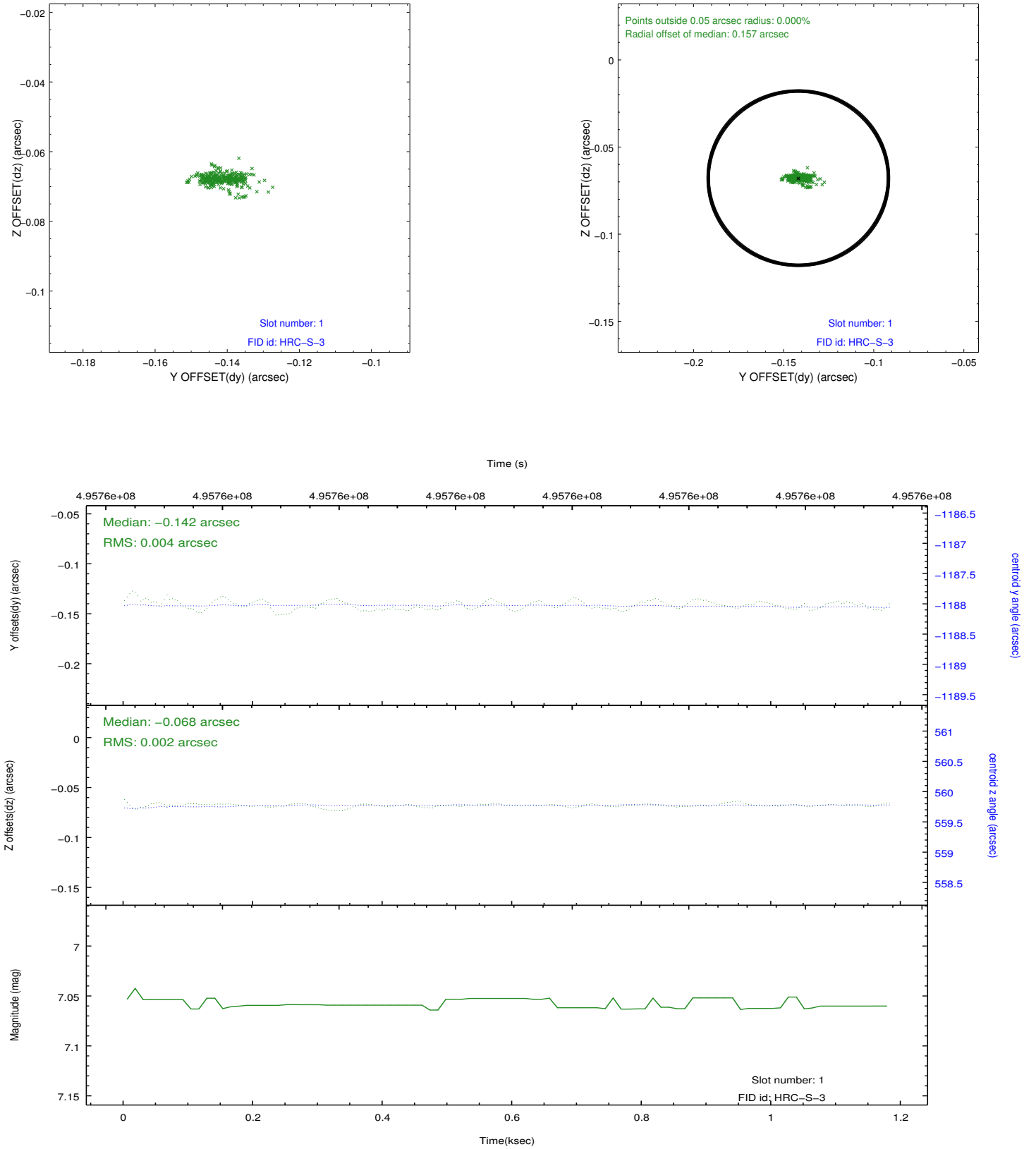


2.5 FID Slots

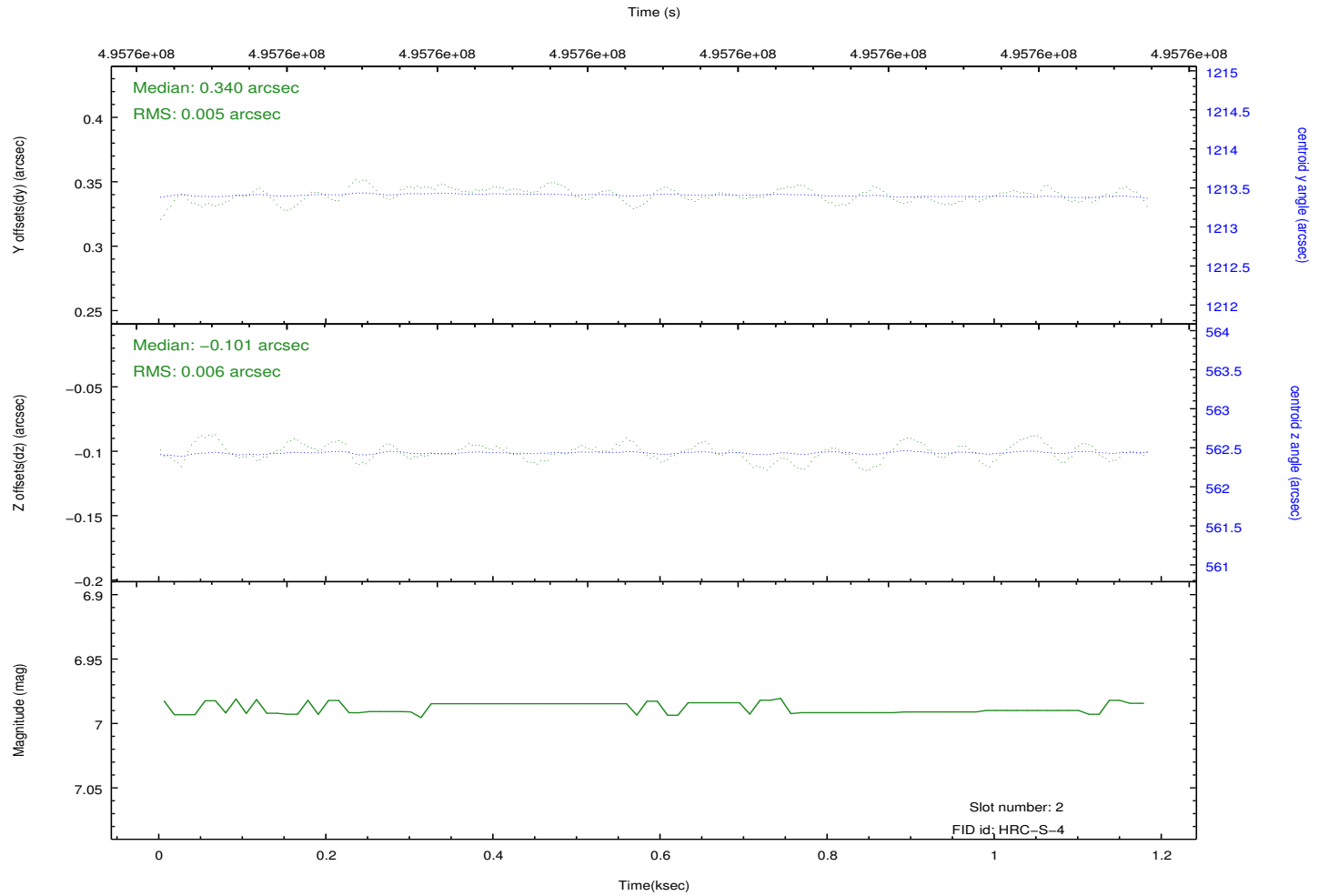
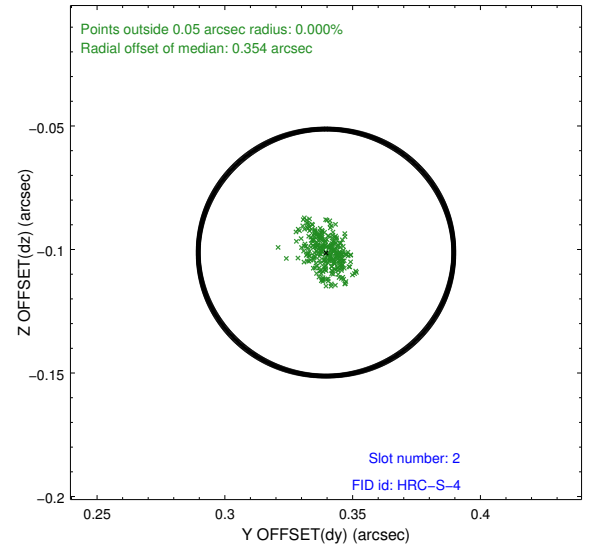
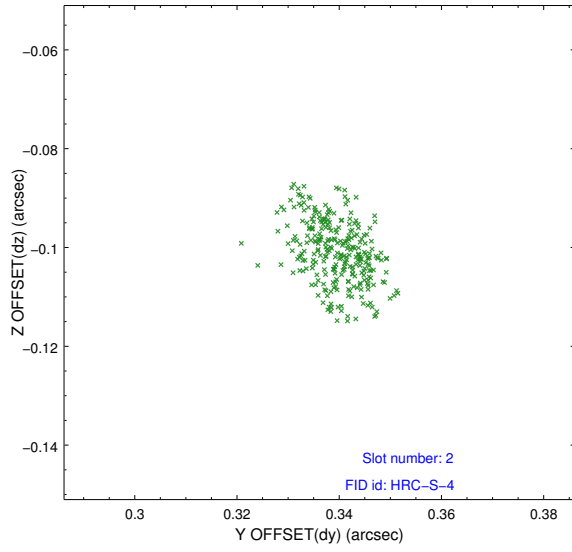
2.5.1 Slot 0



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	1.153381313026

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.