

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15631 - L2 Version 2
Chandra X-Ray Center

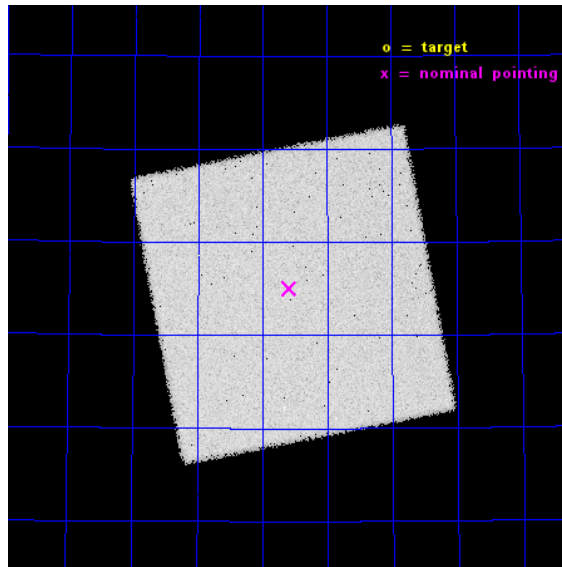
L2 Processing Date : Dec 2 2014

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1 Front

seq_num	100097	Sequence number
obs_id	15631	Observation id
title	High Latitude Charge Exchange X-rays from Comet PANSTARRS in the Cold Polar Solar Wind	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet 2011 L4 (PANSTARRS)	Source name
ra_targ	4.876375	Observer's specified target RA [deg]
dec_targ	60.060944	Observer's specified target Dec [deg]
ra_nom	4.645927971221	Nominal RA [deg]
dec_nom	61.084147855419	Nominal Dec [deg]
roll_nom	34.096986177756	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5181.6315308213	[s]
livetime	5138.8849381572	Ontime multiplied by DTCOR
l2events	321882	Number of level 2 events

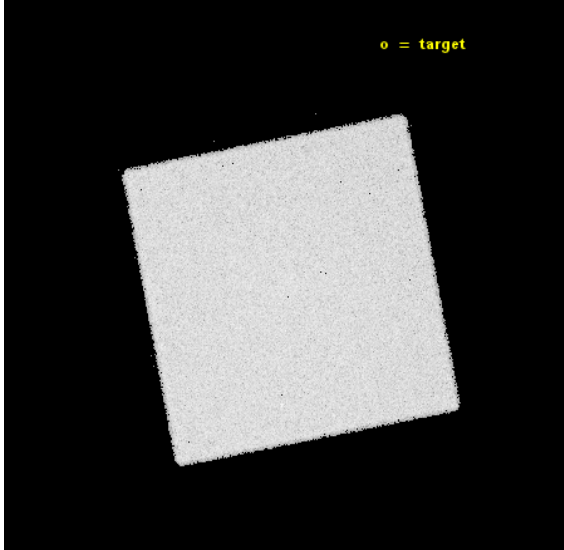


2 OBI

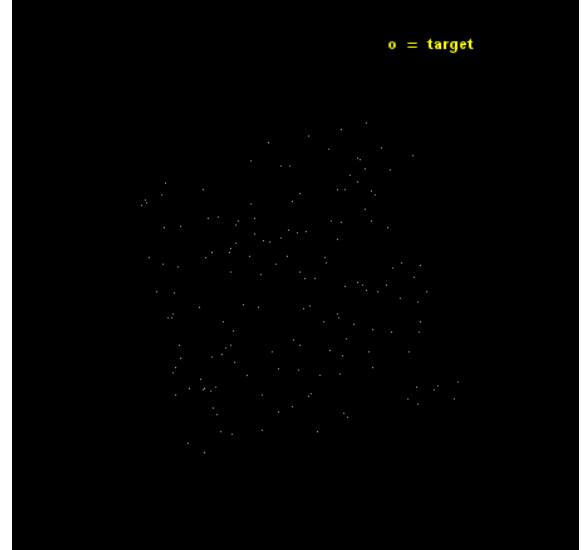
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5181.6315308213	[s]
caldbver	4.6.4	 	l1events	447648	Number of level 1 events
date	2014-12-02T21:46:35	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

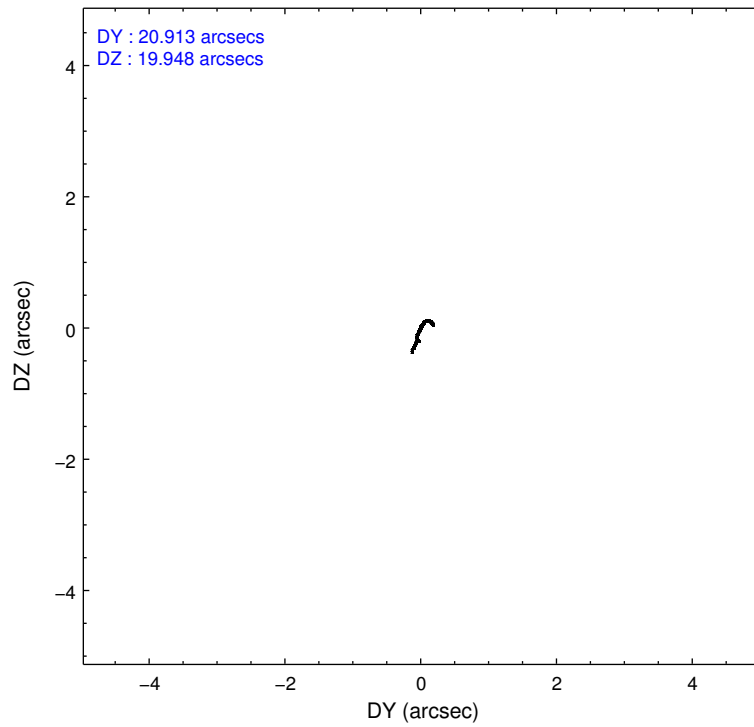
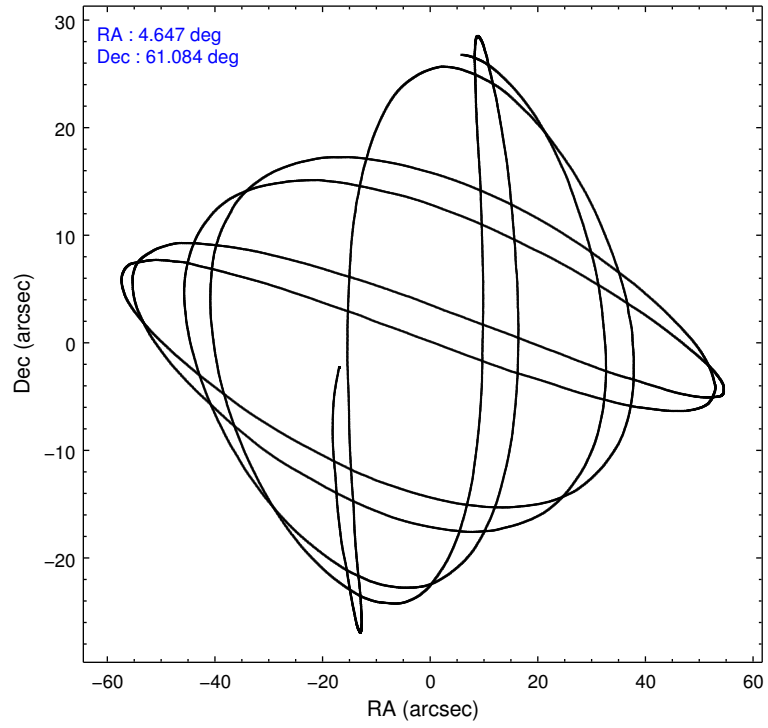
Level 1 Events

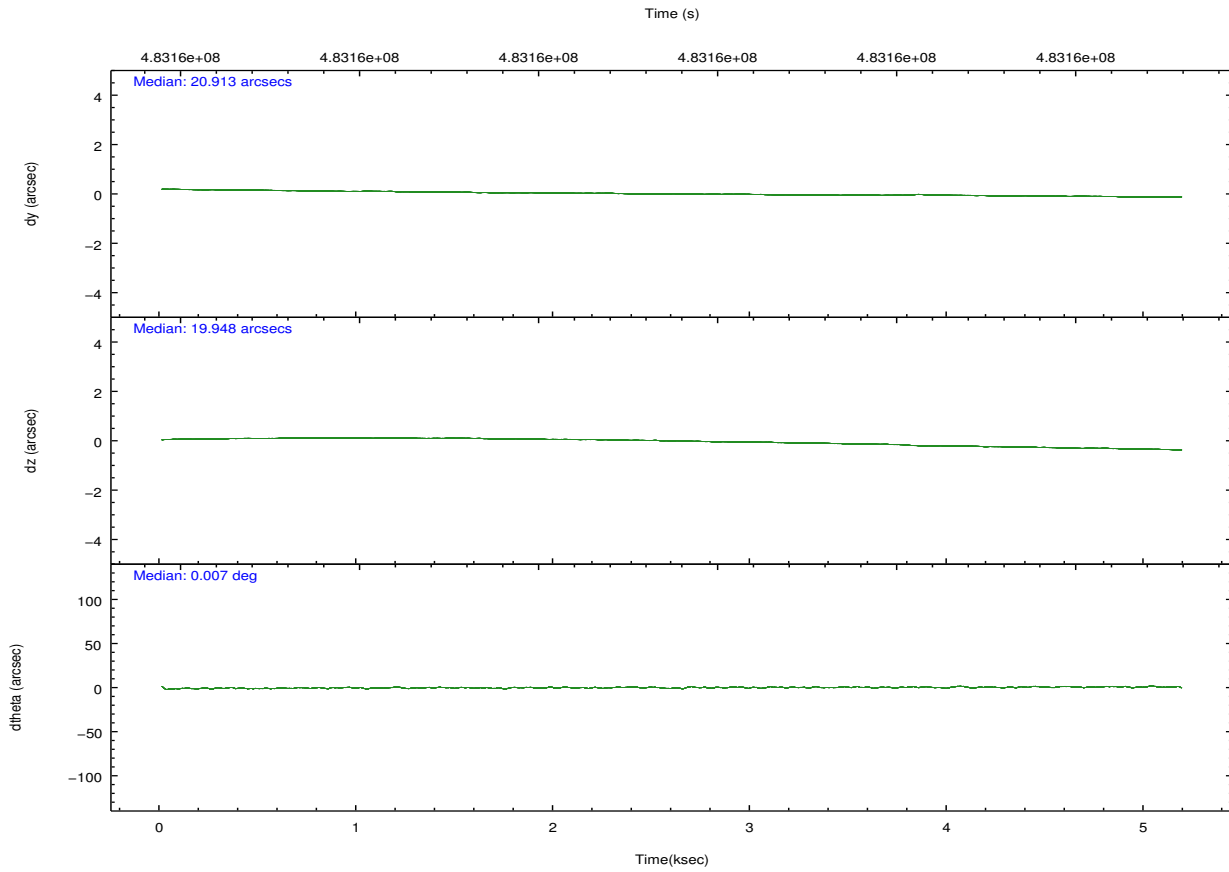
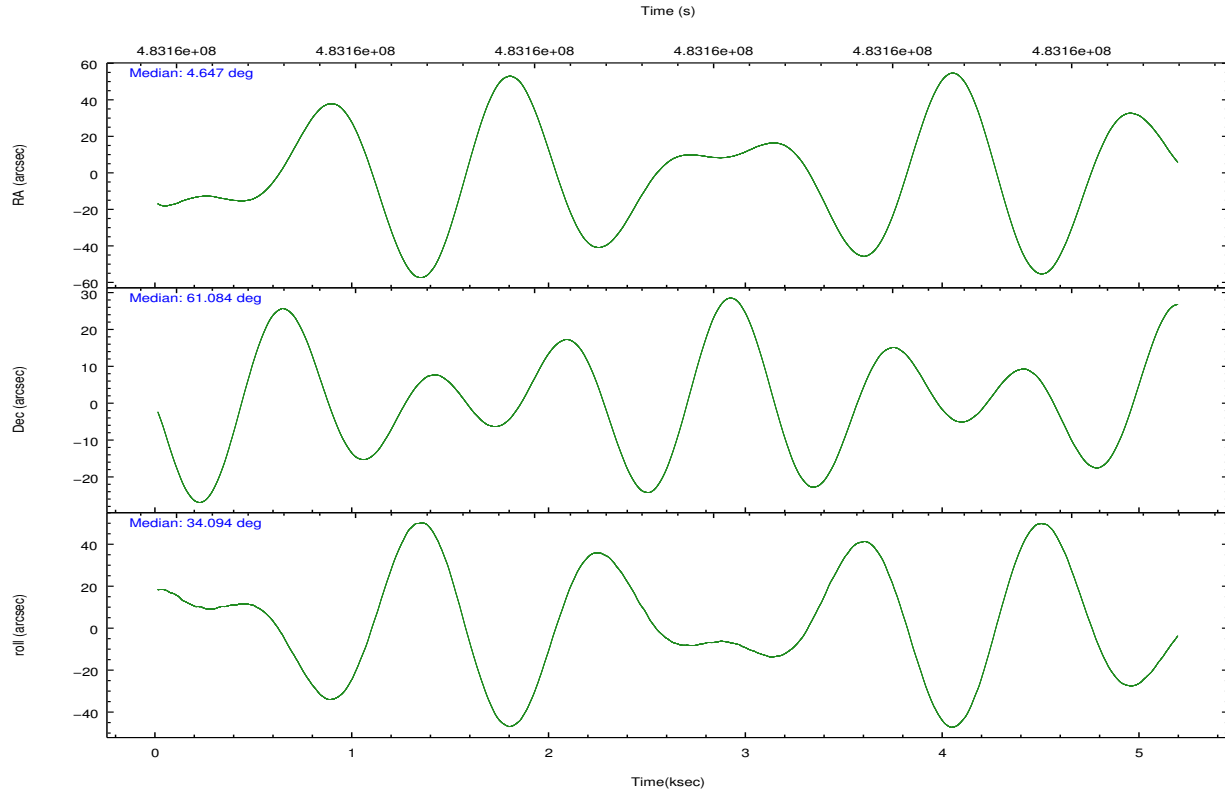
	segment 0
level 1 events	447648
rejected events	8896
rejected %	1%

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	4.622503	4.645927971221002			
[deg] Pointing Dec	61.059570	61.0841478554192			
[deg] Pointing Roll	34.212995	34.09698617775617			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	483157350.184000	483156918.84435			
Observation start date	2013-04-24T02:21:23	2013-04-24T02:15:18			
[s] Observation end time (MET)	483162350.184000	483163443.9947			
Observation end date	2013-04-24T03:44:43	2013-04-24T04:04:03			

2.3 Aspect





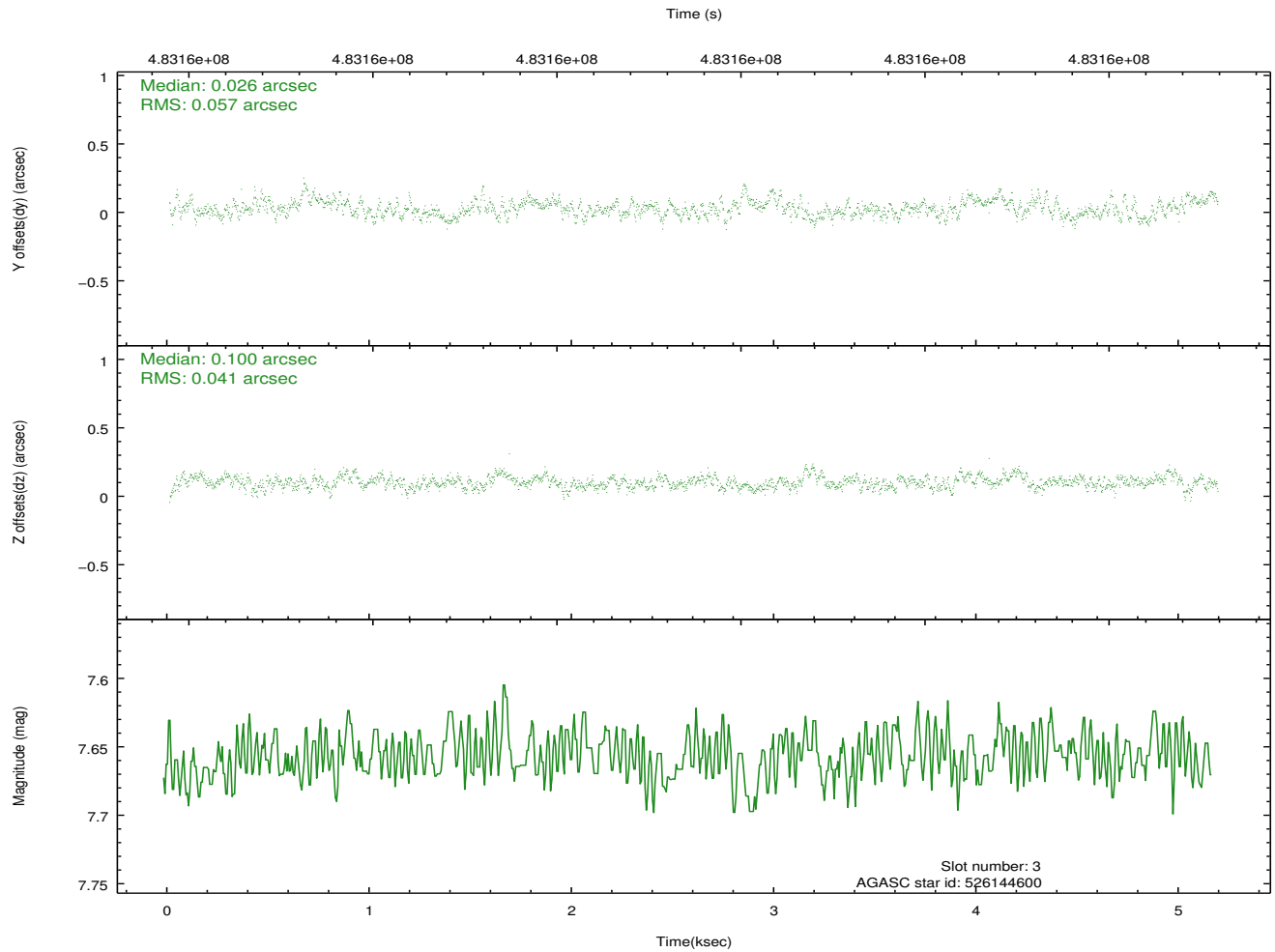
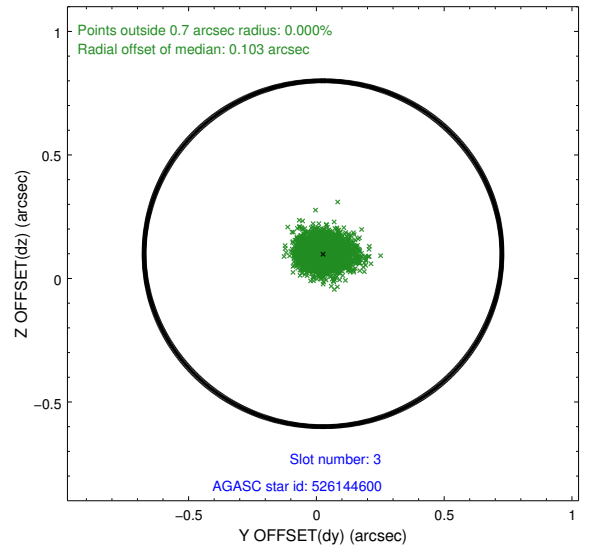
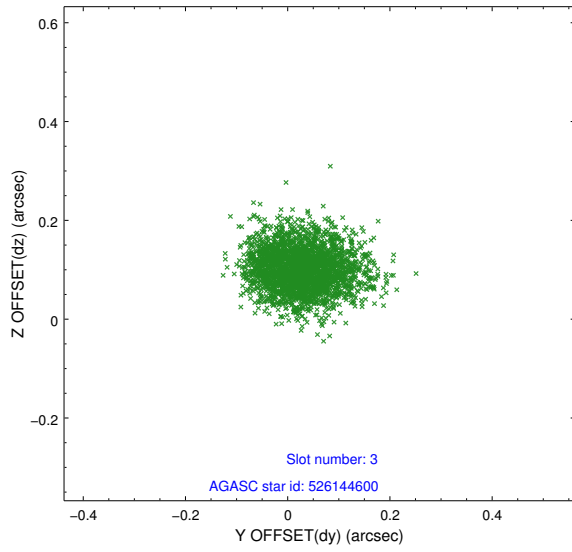
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	1263	-0.117	0.009	0.007	0.011	0.000000	0.000000	-776.97	-1308.13
1	FID		HRC-I-2	7.07	1264	0.239	-0.088	0.007	0.013	0.000000	0.000000	835.40	-1310.79
2	FID		HRC-I-3	7.12	1264	-0.004	-0.010	0.007	0.015	0.000000	0.000000	-1204.74	995.37
3	GUIDE	used	526144600	7.66	2528	0.026	0.100	0.076	0.121	3.527597	60.720350	-2271.28	88.00
4	GUIDE	used	526256320	8.77	2522	0.024	-0.117	0.093	0.146	5.505391	61.521455	2193.56	531.58
5	GUIDE	used	526262328	7.91	2529	-0.146	-0.072	0.085	0.128	4.573936	61.727056	1283.72	2034.57
6	GUIDE	used	526268736	8.65	2520	-0.108	-0.098	0.080	0.129	4.665611	61.427861	807.61	1056.10
7	GUIDE	used	526271288	7.10	2527	0.201	0.190	0.065	0.100	5.005034	60.639200	-290.46	-1628.23

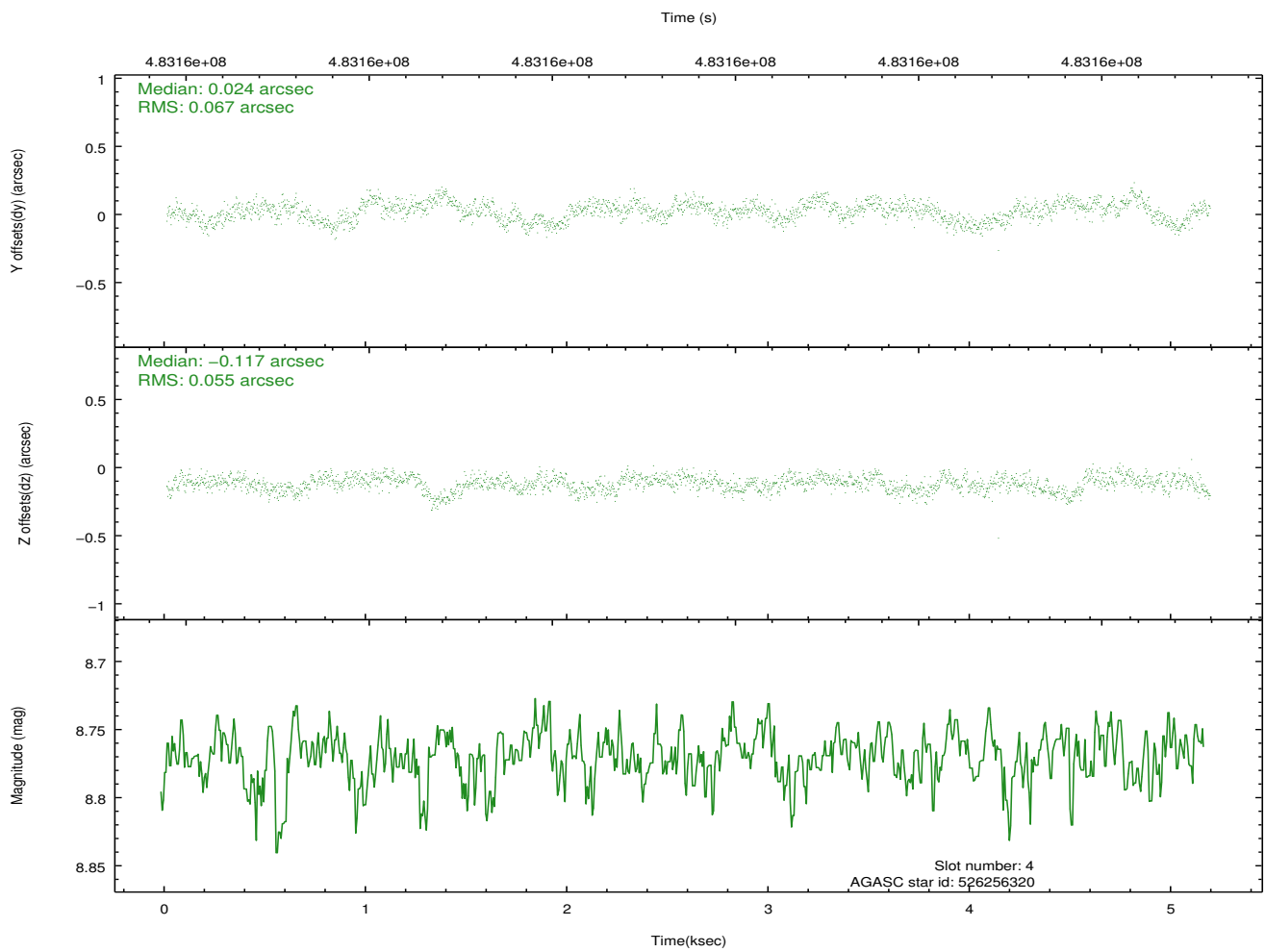
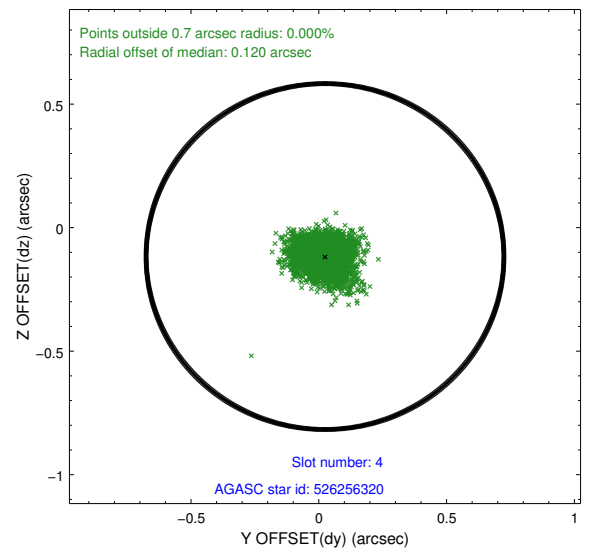
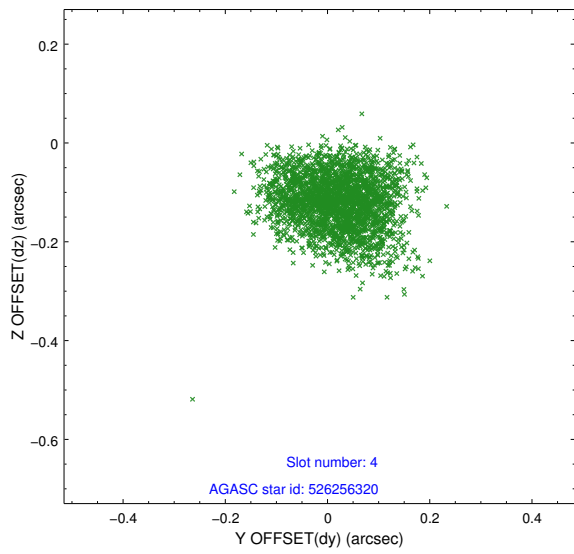
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2.4 Star Slots

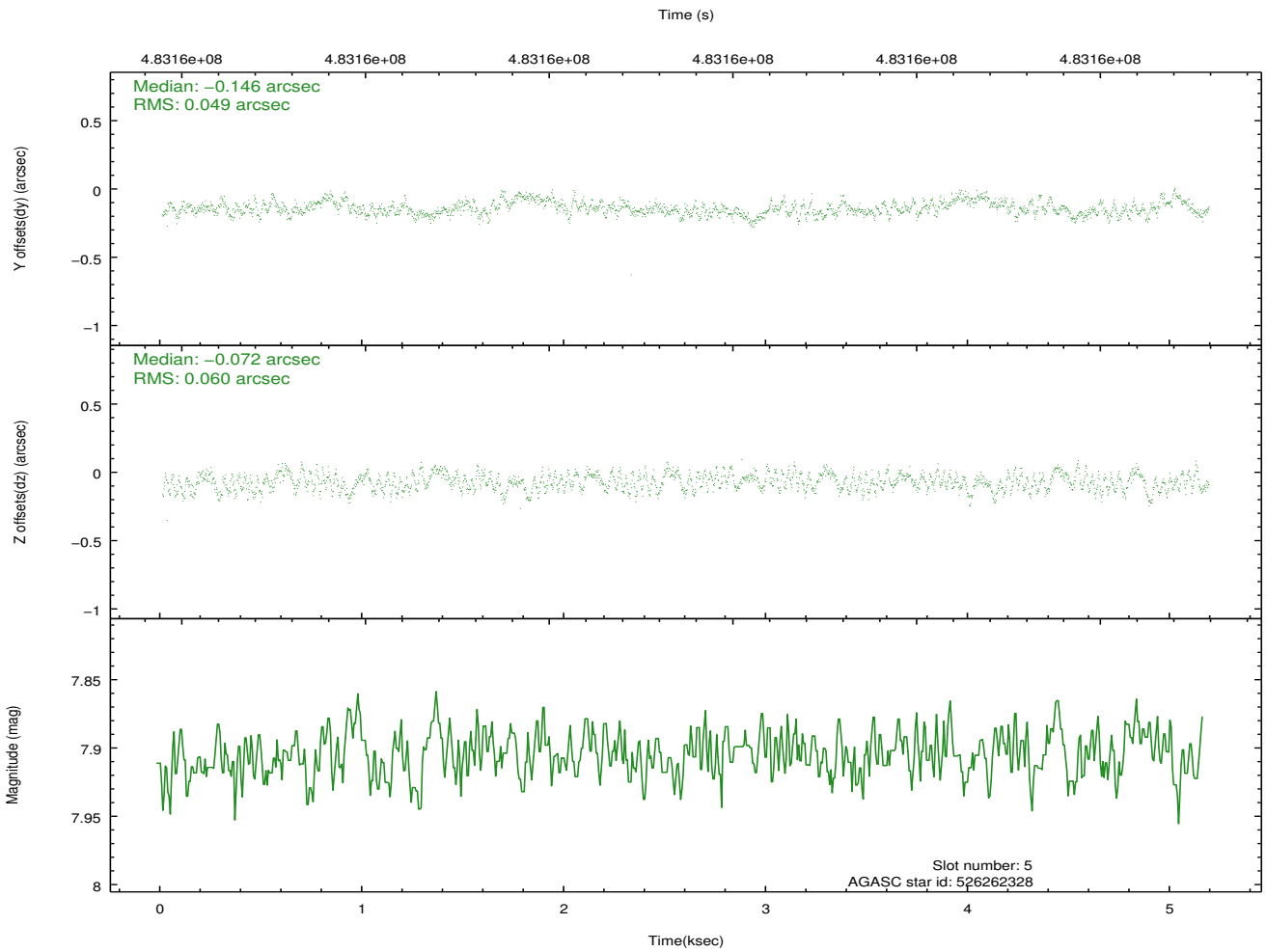
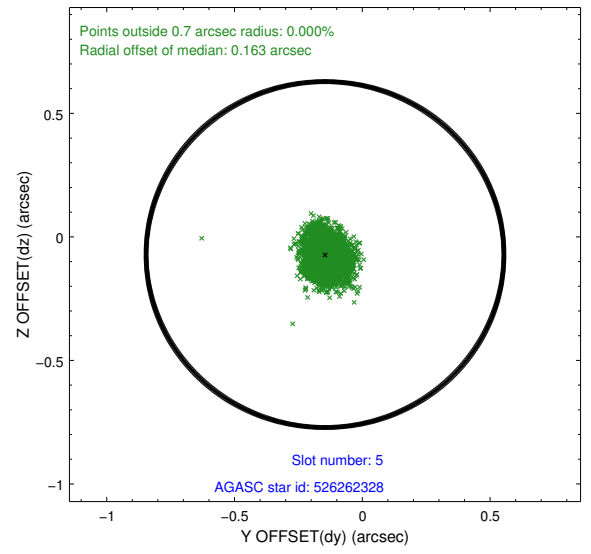
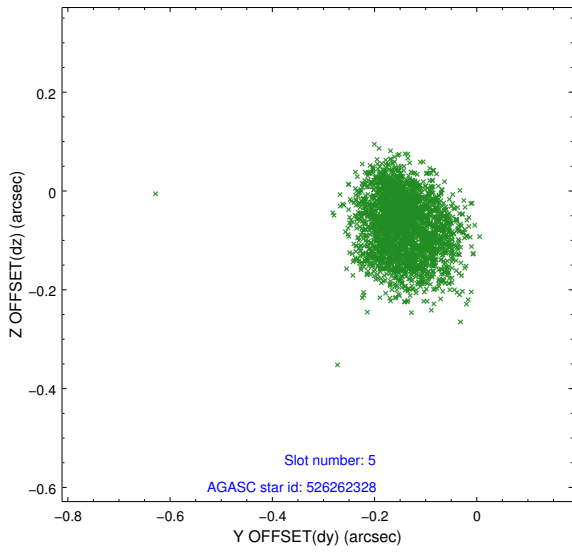
2.4.1 Slot 3



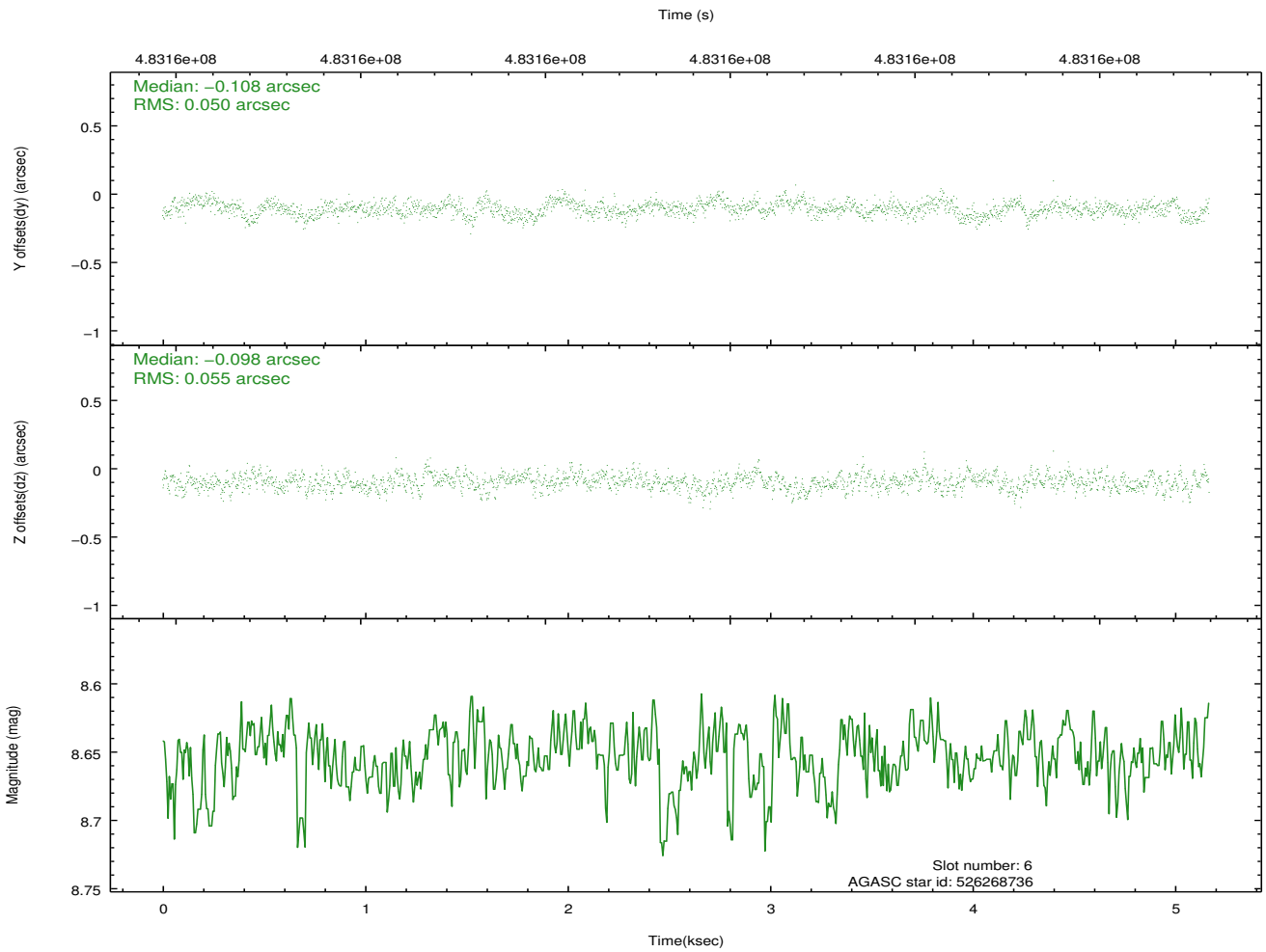
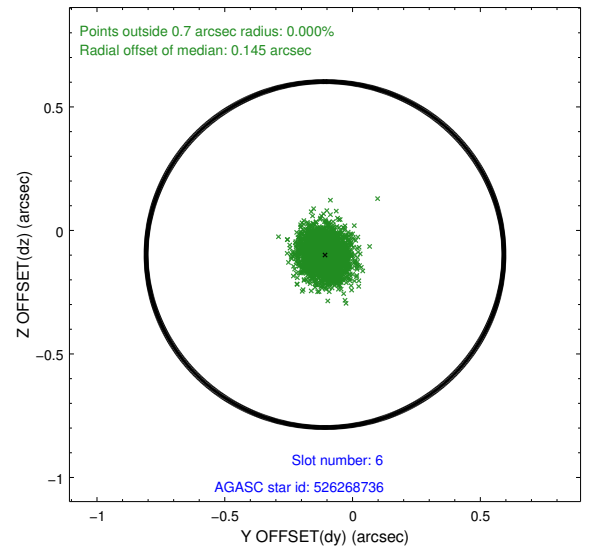
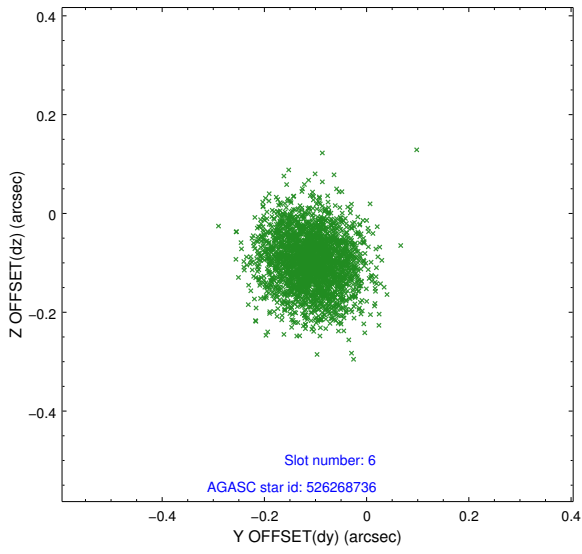
2.4.2 Slot 4



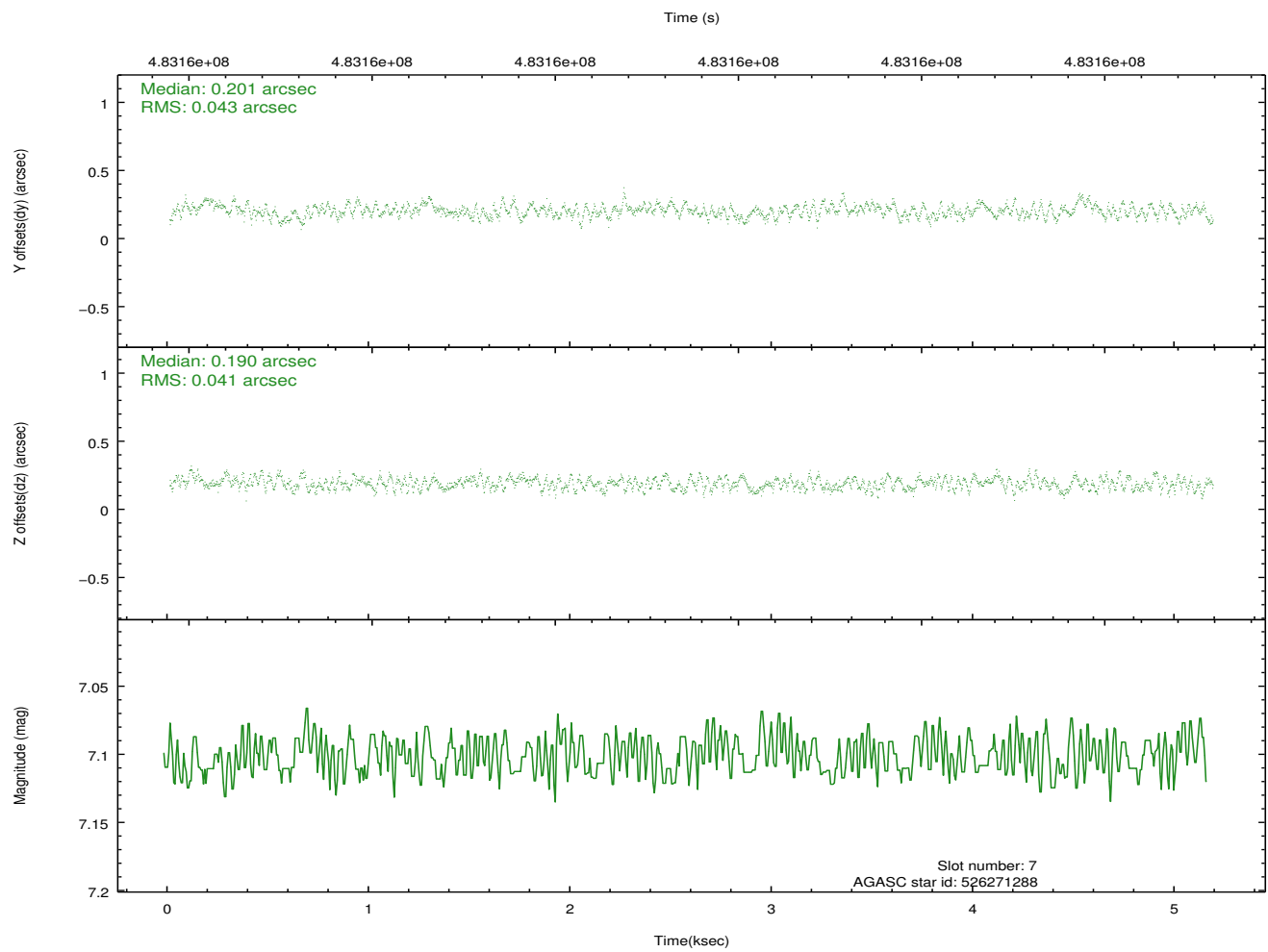
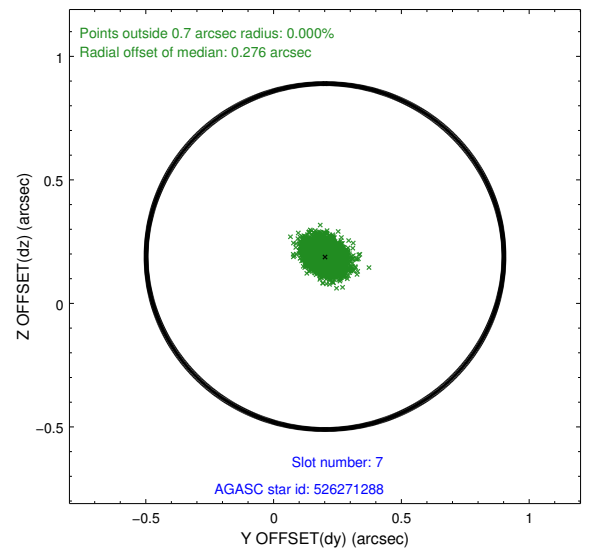
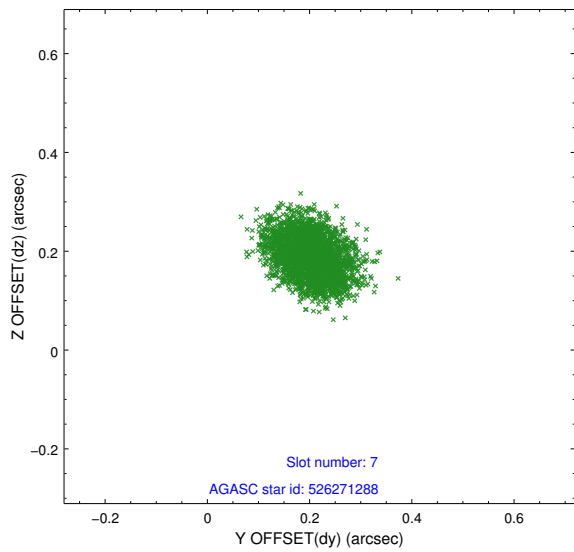
2.4.3 Slot 5



2.4.4 Slot 6

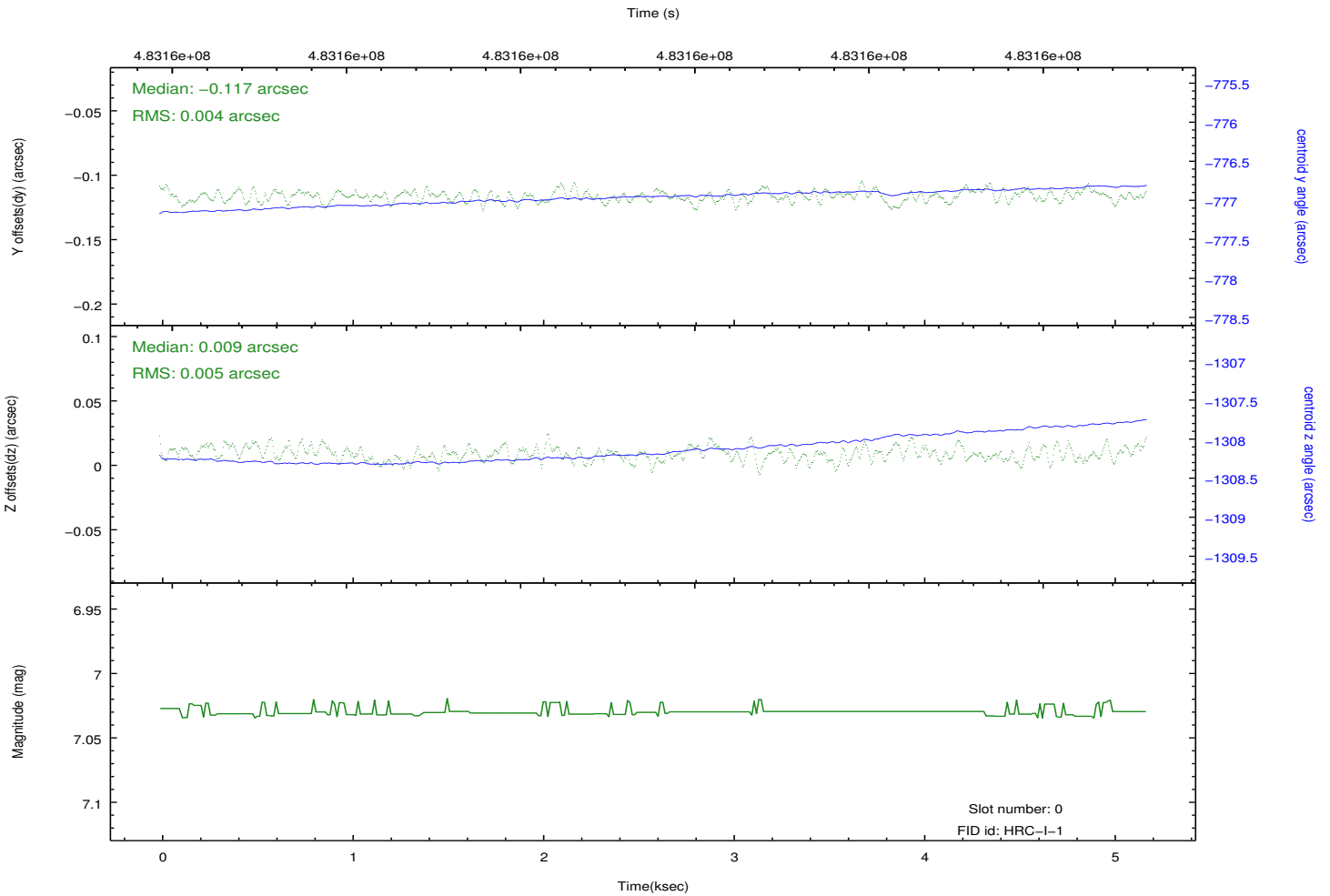
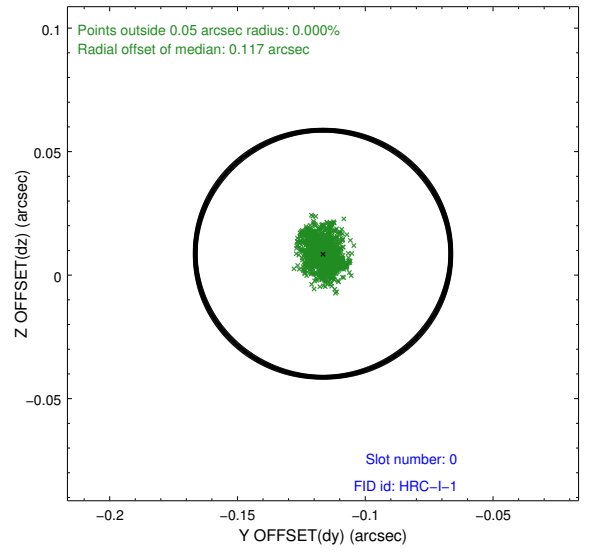
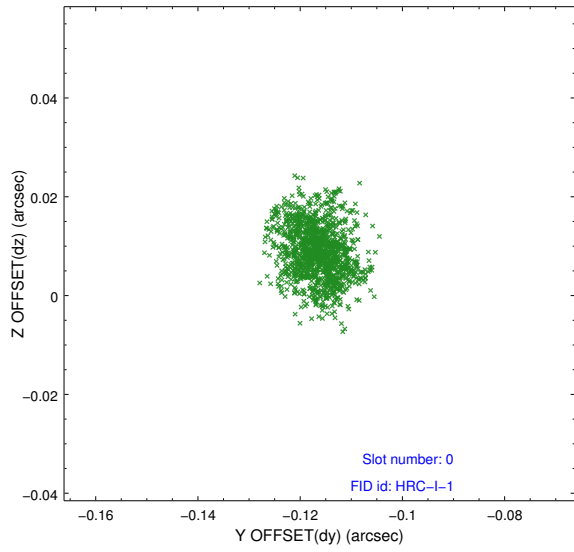


2.4.5 Slot 7

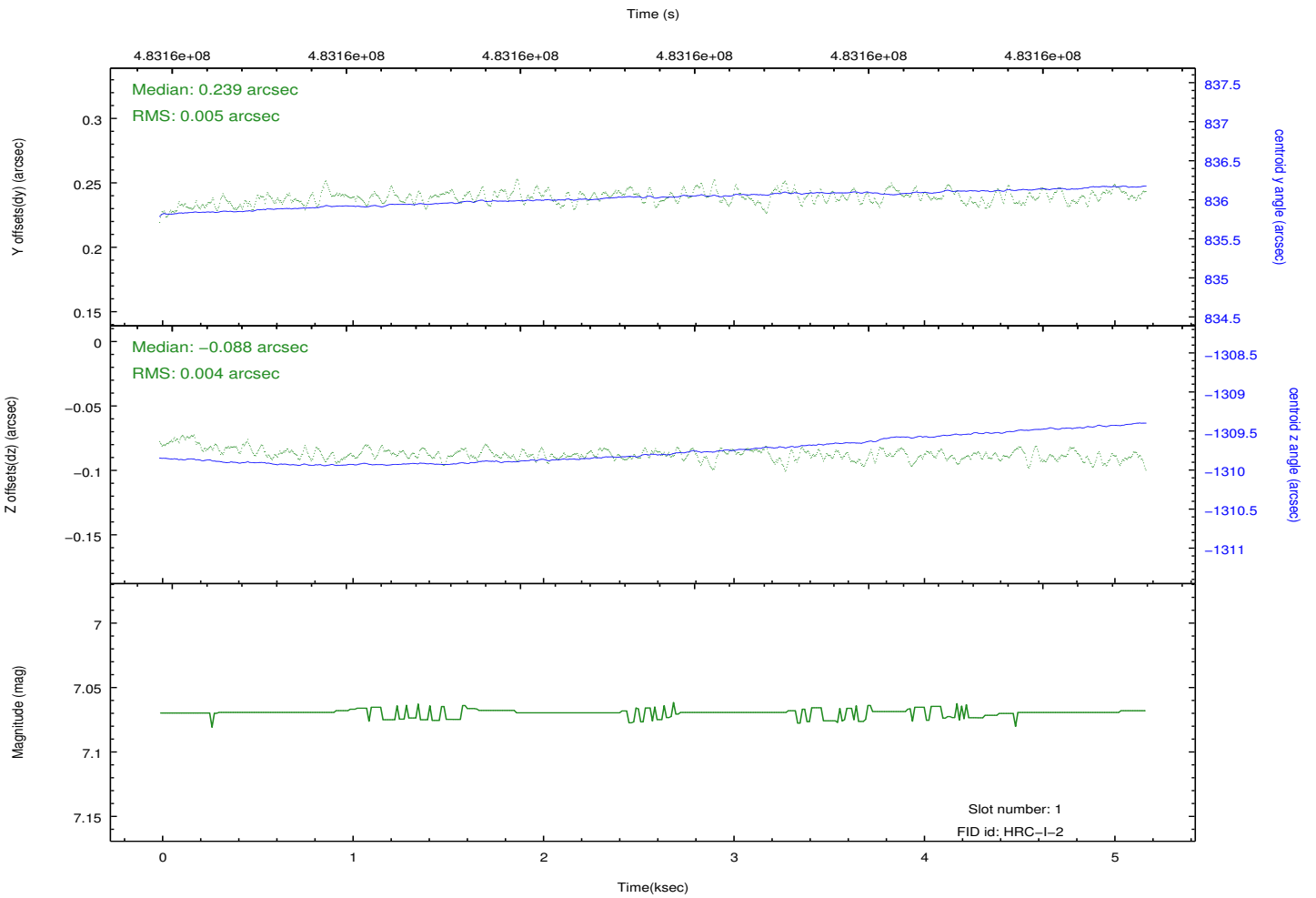
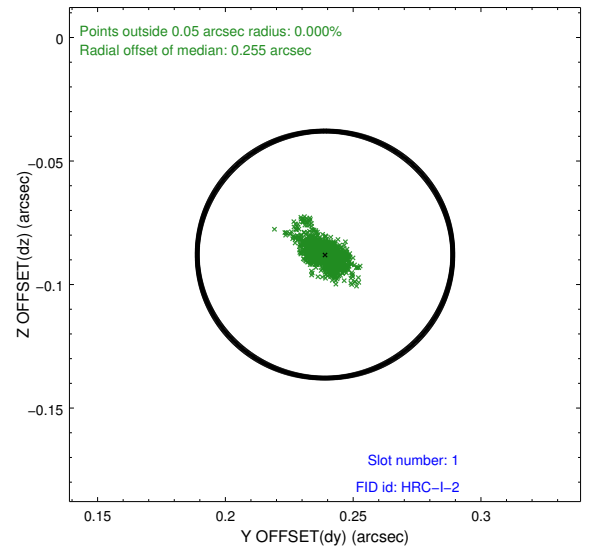
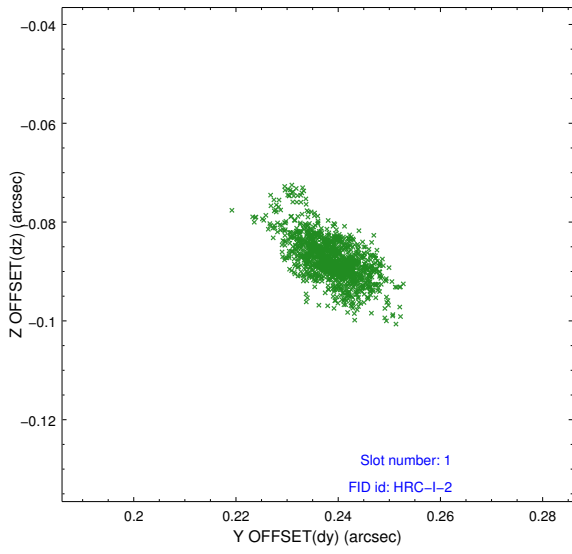


2.5 FID Slots

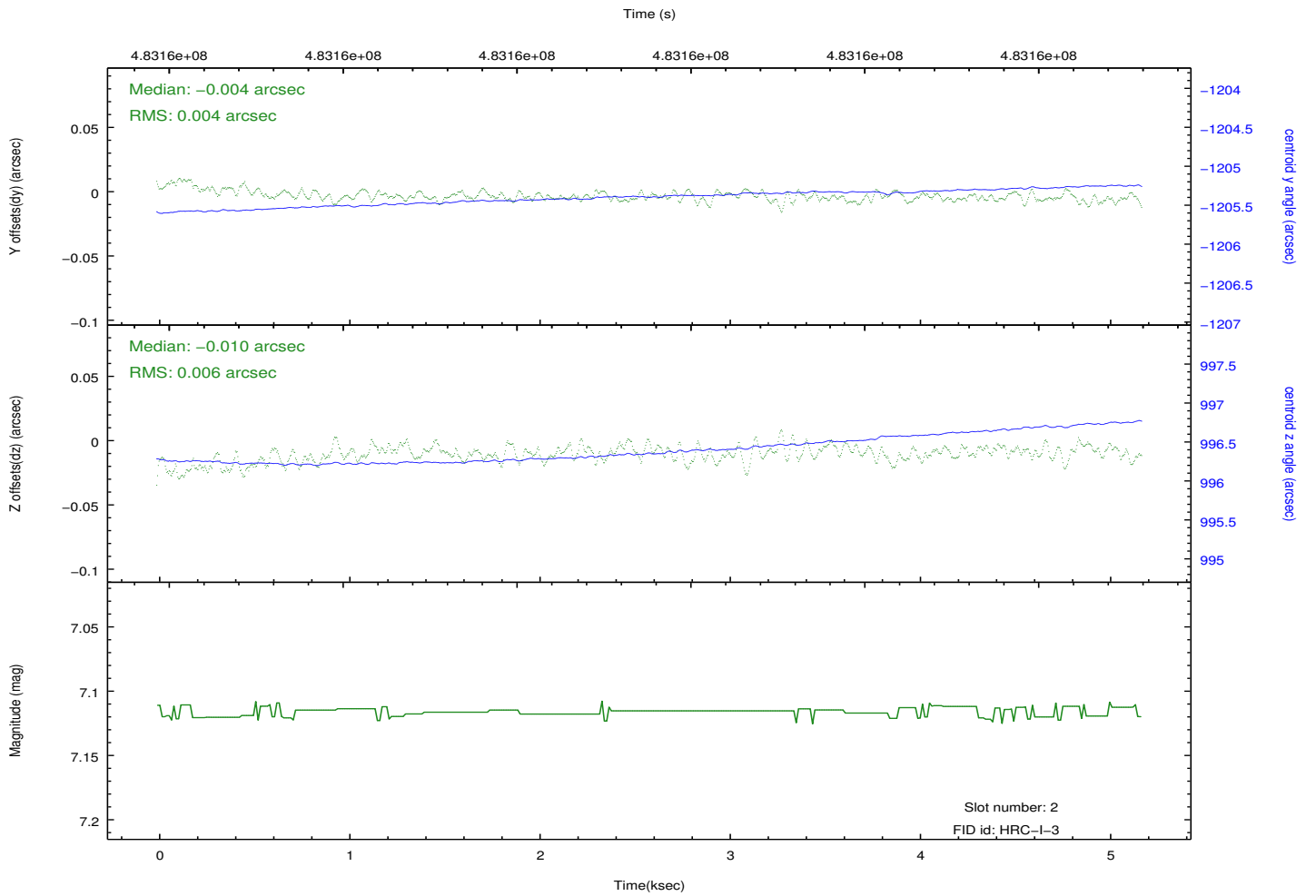
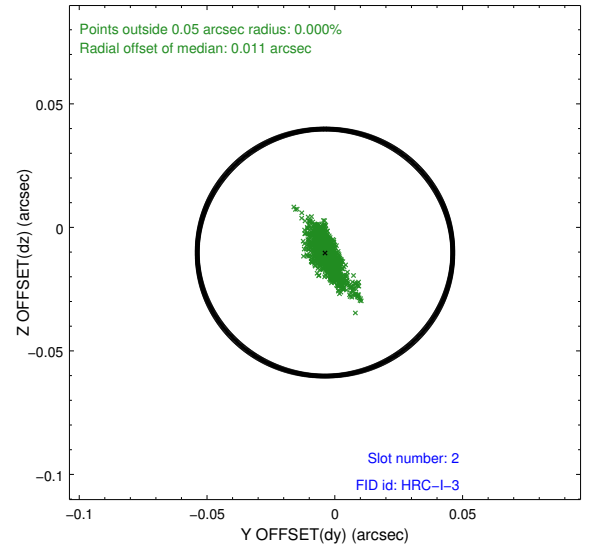
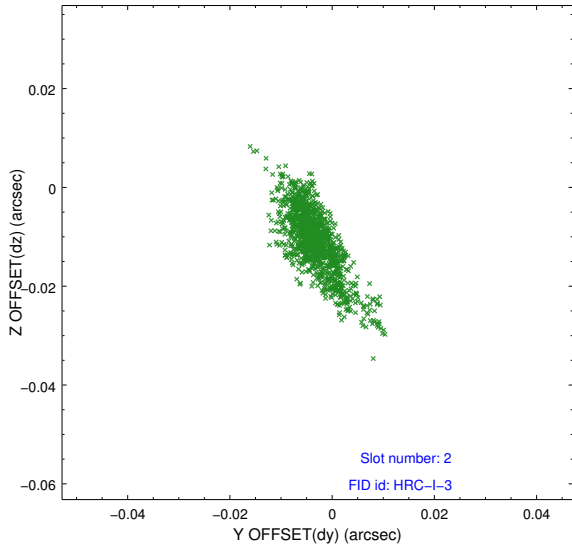
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18163153

A.2 Comments

This is an observation of a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.

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.