

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16299 - L2 Version 3
Chandra X-Ray Center

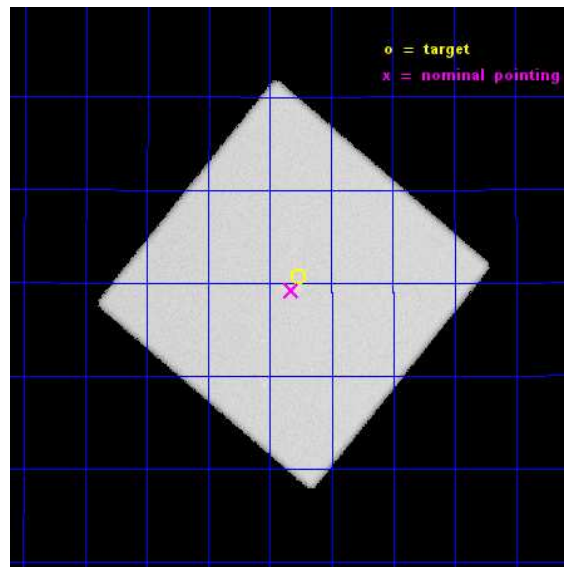
L2 Processing Date : Dec 11 2014

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1 Front

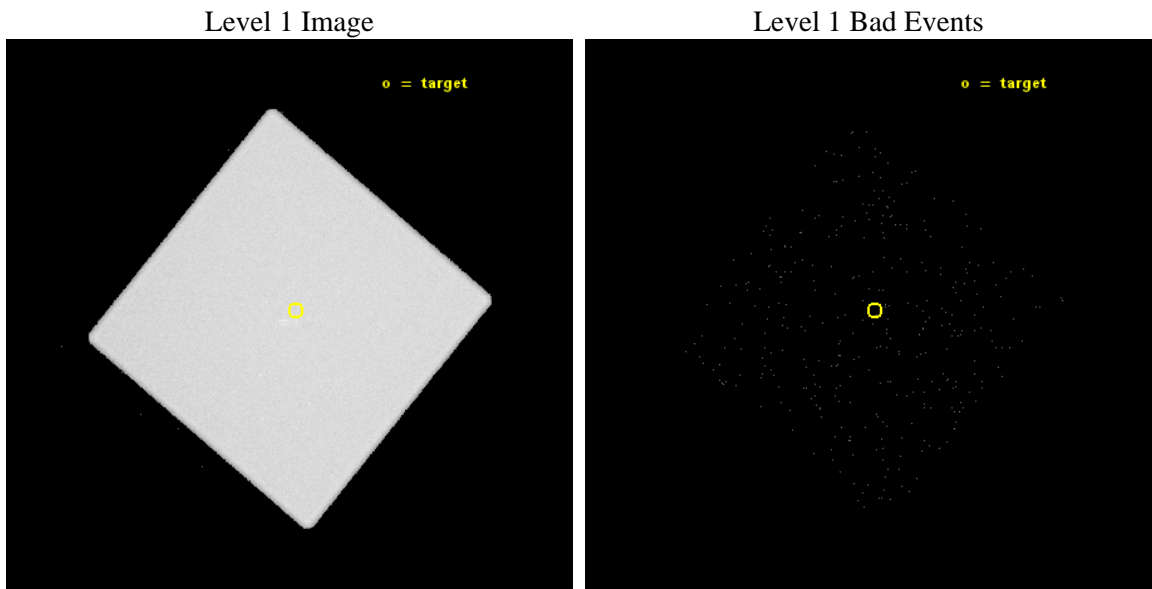
seq_num	100129	Sequence number
obs_id	16299	Observation id
title	A Multi-wavelength campaign to study the Jovian aurora and the Io plasma torus	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	Jupiter	Source name
ra_targ	103.1935	Observer's specified target RA [deg]
dec_targ	23.1777	Observer's specified target Dec [deg]
ra_nom	103.20650517713	Nominal RA [deg]
dec_nom	23.153287346008	Nominal Dec [deg]
roll_nom	264.77799867498	Nominal Roll [deg]
revision	3	Processing version of data
ontime	37795.852085948	[s]
livetime	37526.709979875	Ontime multiplied by DTCOR
l2events	2075091	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	37795.852085948	[s]
caldbver	4.6.4	 	l1events	2806612	Number of level 1 events
date	2014-12-11T12:26:26	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

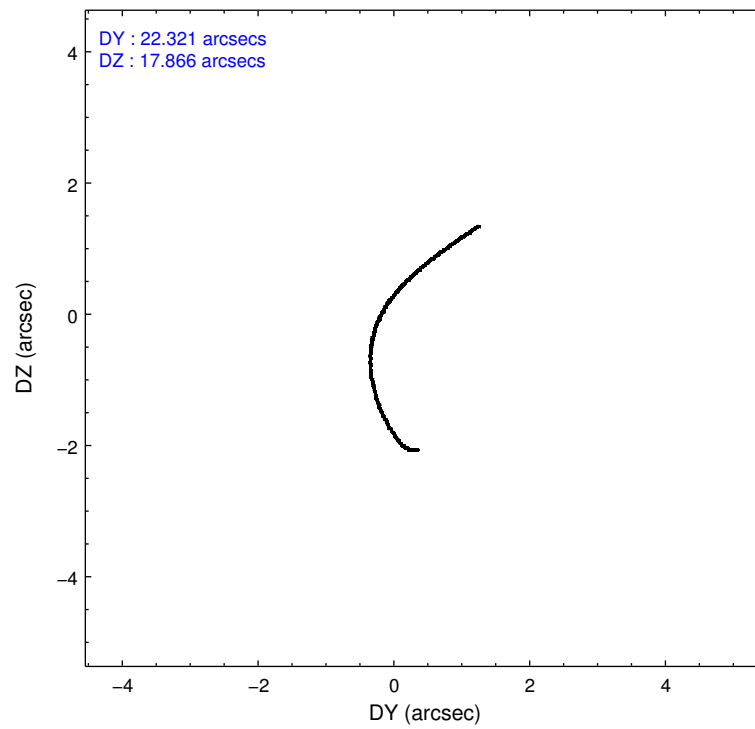
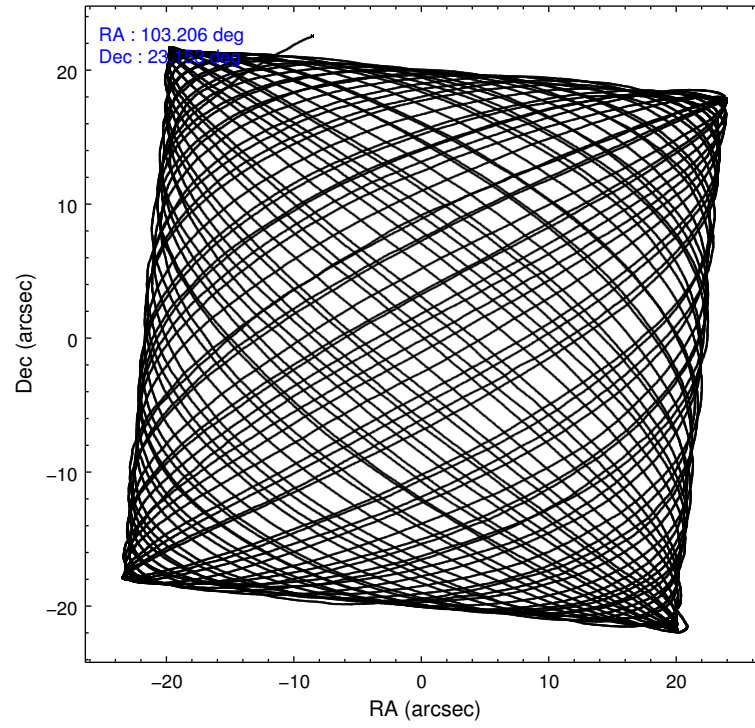
Level 1 Events

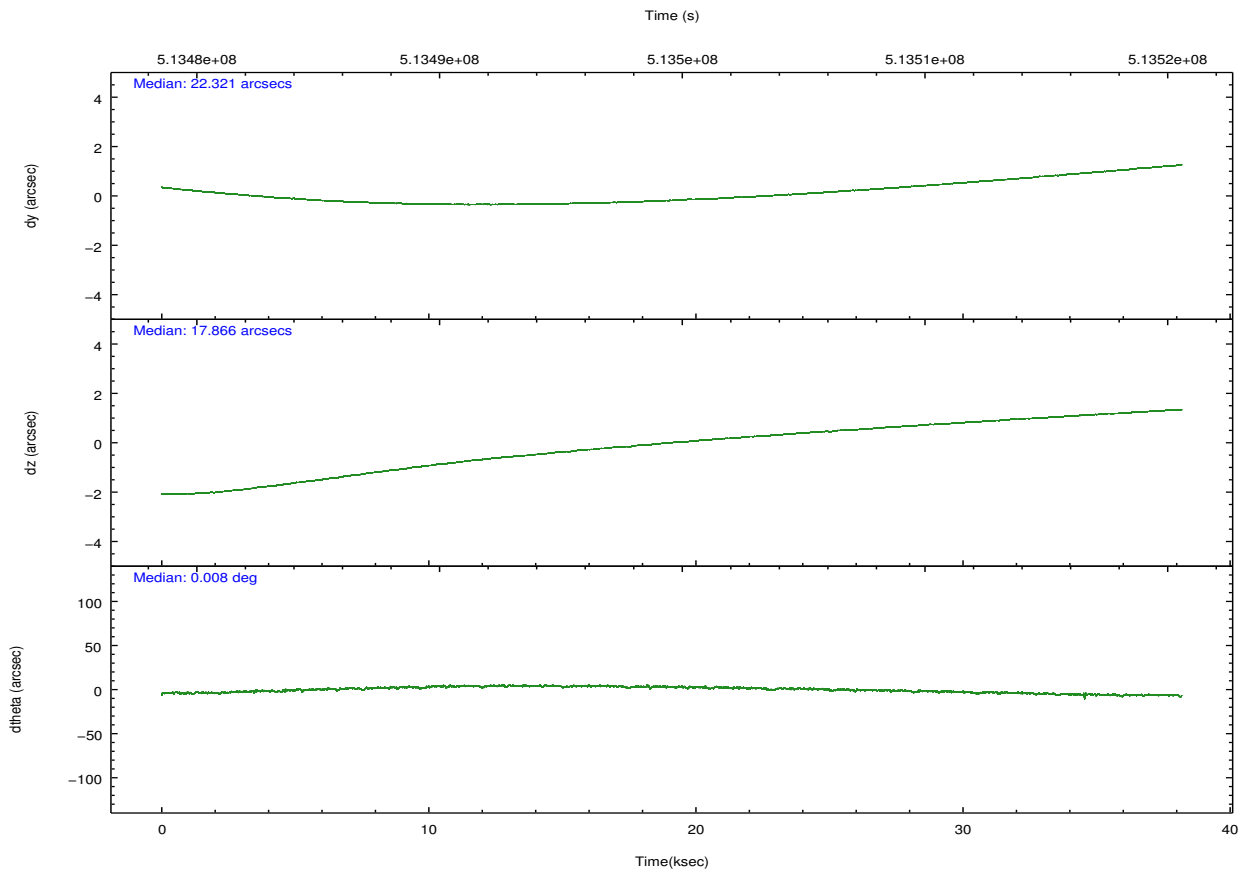
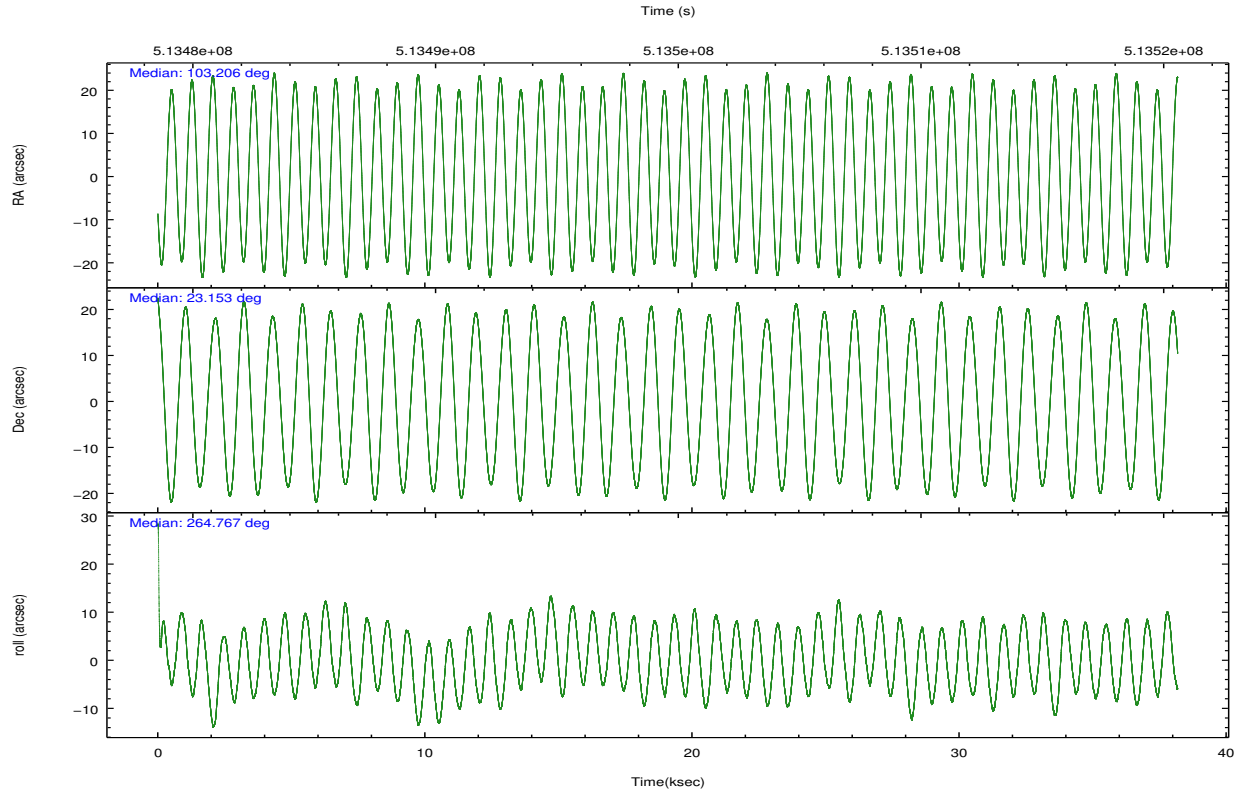
	segment 0
level 1 events	2806612
rejected events	6294
rejected %	0%

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	103.193505	103.2065051771288			
[deg] Pointing Dec	23.177706	23.15328734600809			
[deg] Pointing Roll	264.878589	264.7779986749819			
[s] Window start time (MET)	513216067.184000	513216067.184000			
[s] Window stop time (MET)	514339207.184000	514339207.184000			
[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)	513480667.184000	513479429.90259			
Observation start date	2014-04-10T01:30:00	2014-04-10T01:10:29			
[s] Observation end time (MET)	513518667.184000	513519352.1173			
Observation end date	2014-04-10T12:03:20	2014-04-10T12:15:52			

2.3 Aspect





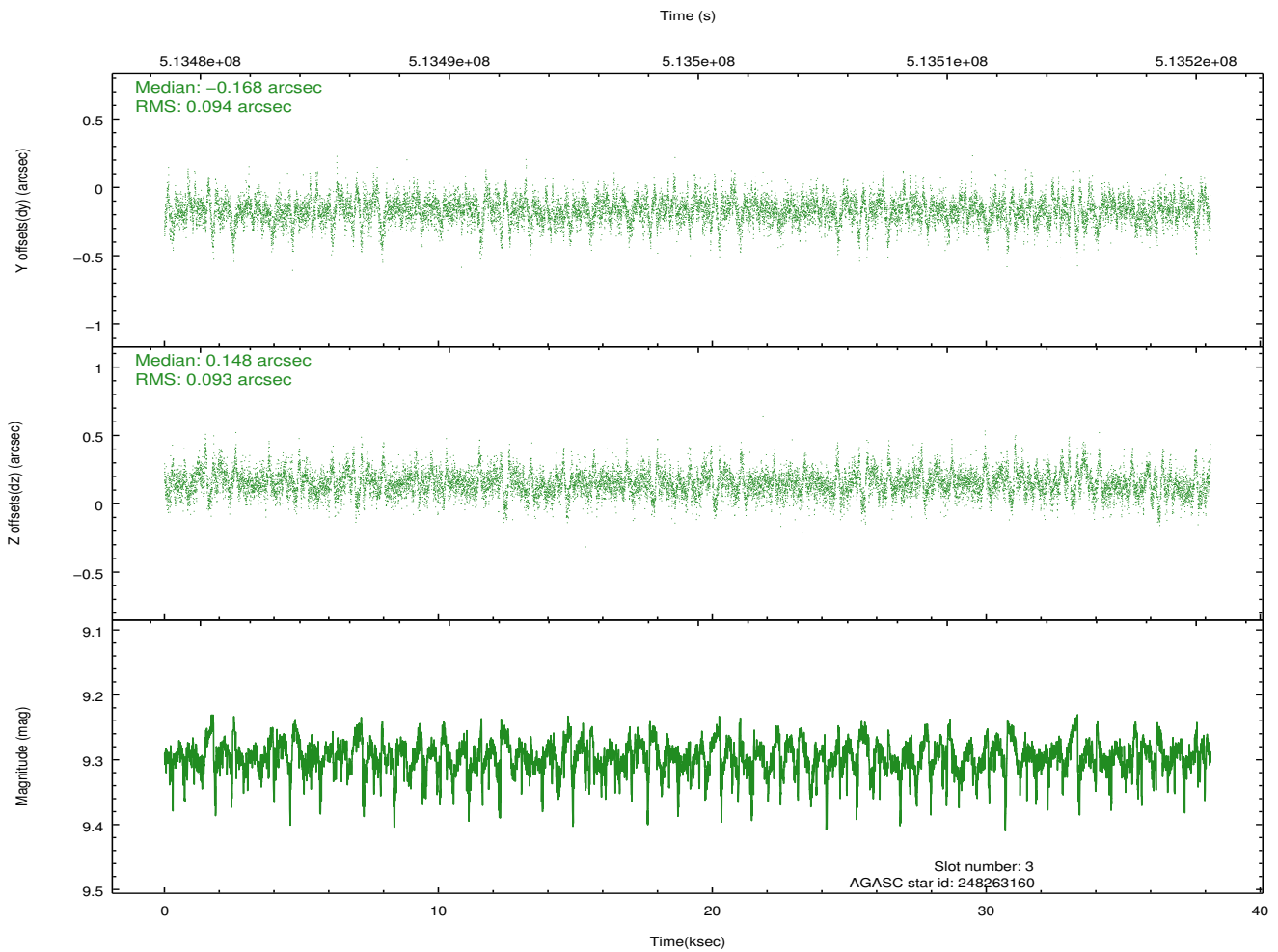
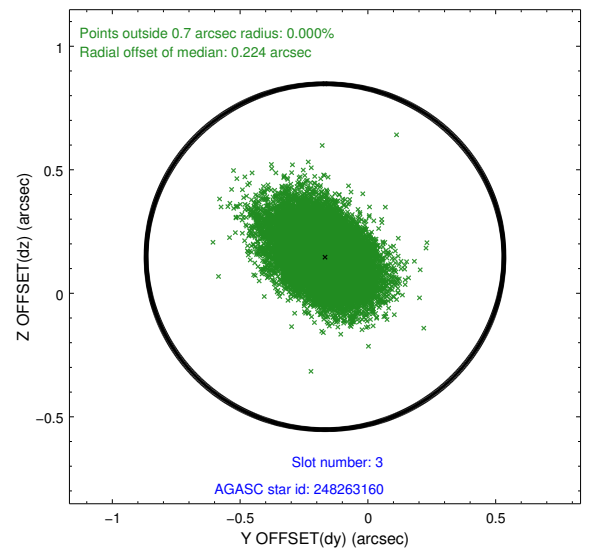
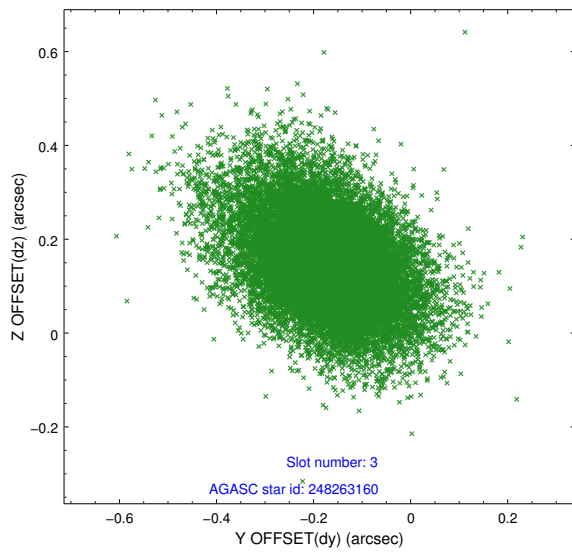
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.98	9313	-0.104	0.042	0.019	0.033	0.000000	0.000000	-778.55	-1305.83
1	FID		HRC-I-2	7.01	9313	0.245	-0.115	0.021	0.038	0.000000	0.000000	834.34	-1307.67
2	FID		HRC-I-3	7.07	9311	-0.021	-0.017	0.016	0.030	0.000000	0.000000	-1206.90	998.52
3	GUIDE	used	248263160	9.30	18605	-0.168	0.148	0.135	0.241	103.915522	23.699104	-2088.09	2202.80
4	GUIDE	used	248274984	8.44	18618	-0.027	0.106	0.101	0.162	102.661152	23.693111	-1694.03	-1913.42
5	GUIDE	used	248131816	9.08	18617	-0.127	-0.073	0.136	0.213	102.473144	23.019159	776.41	-2326.25
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	248124472	9.05	18616	0.327	-0.195	0.158	0.260	102.424052	22.839981	1433.45	-2434.24

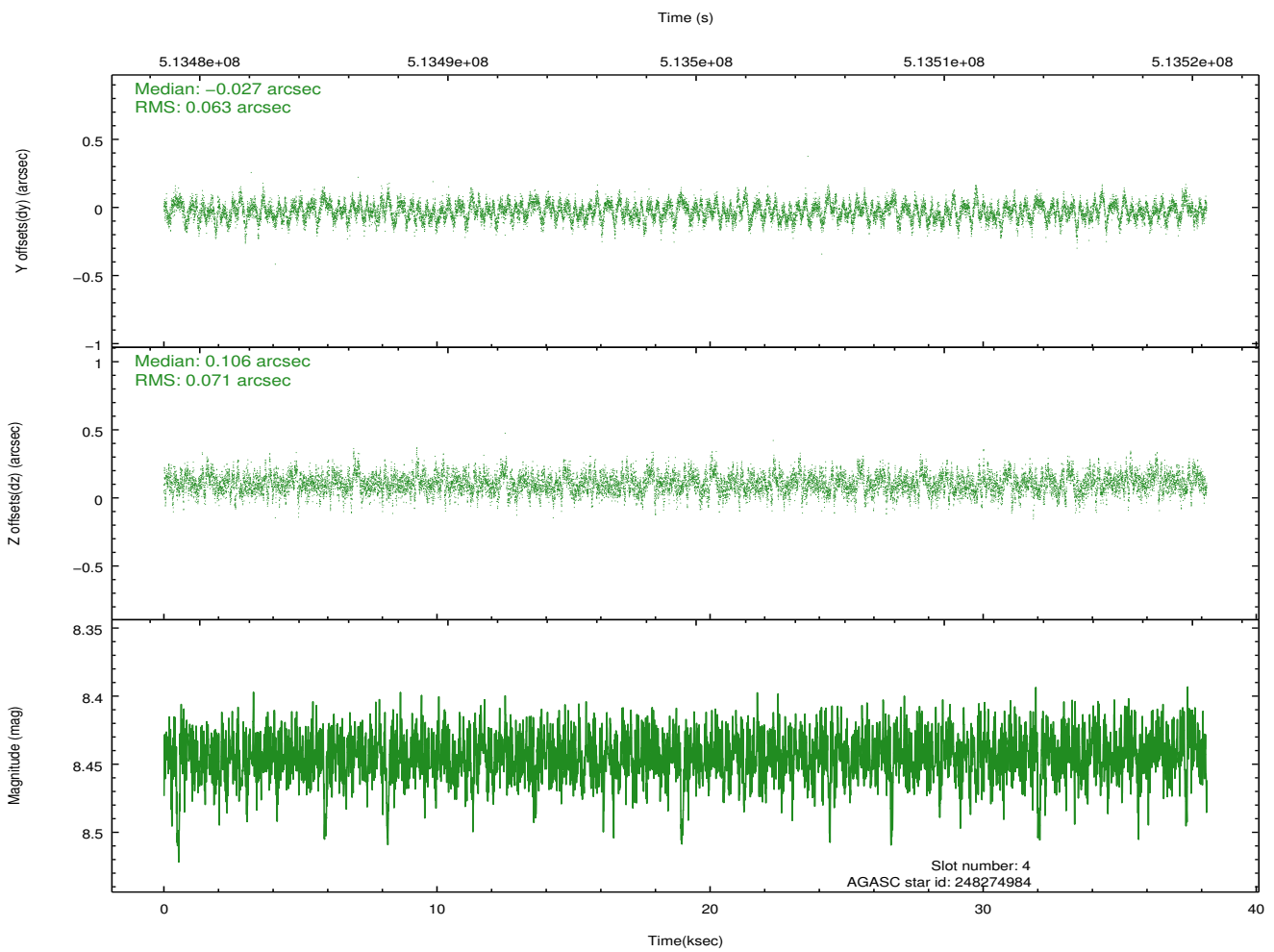
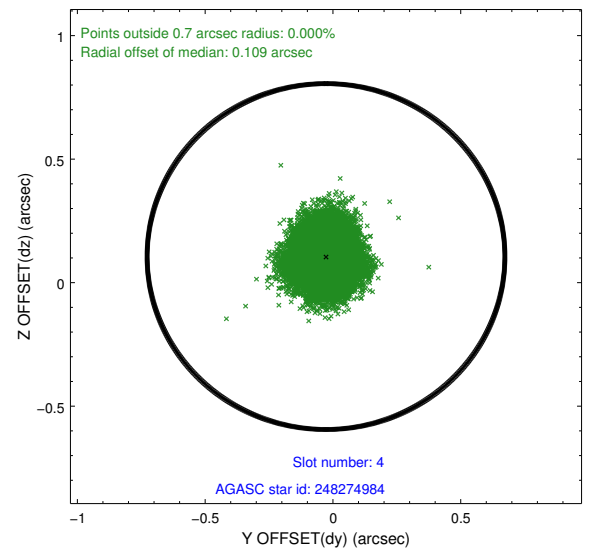
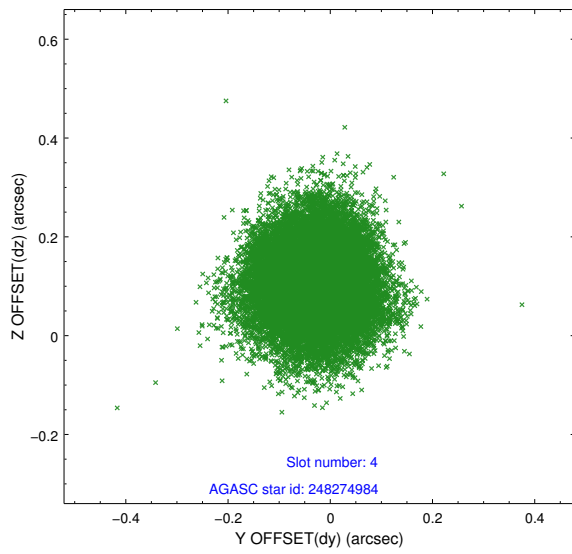
∞

2.4 Star Slots

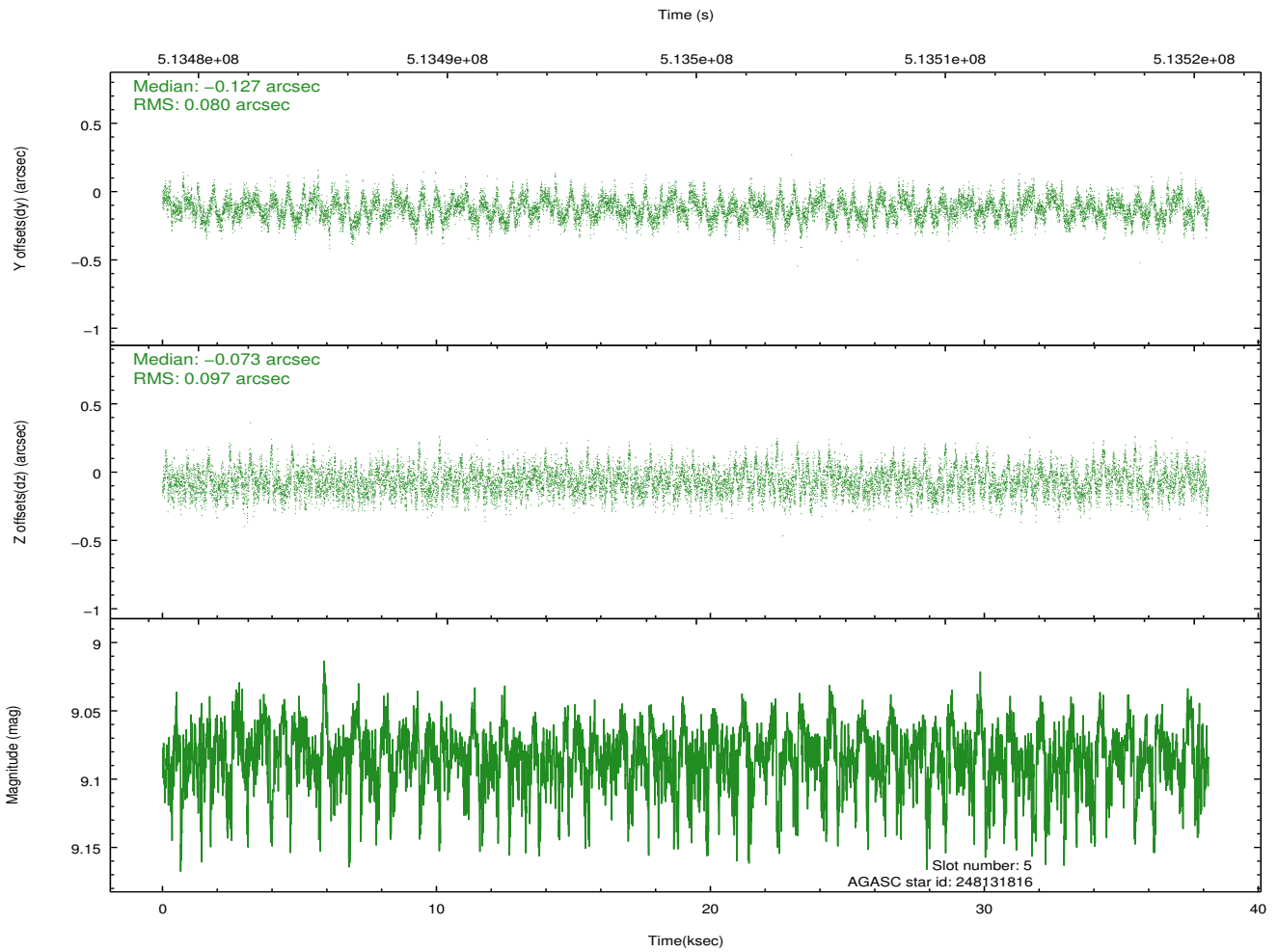
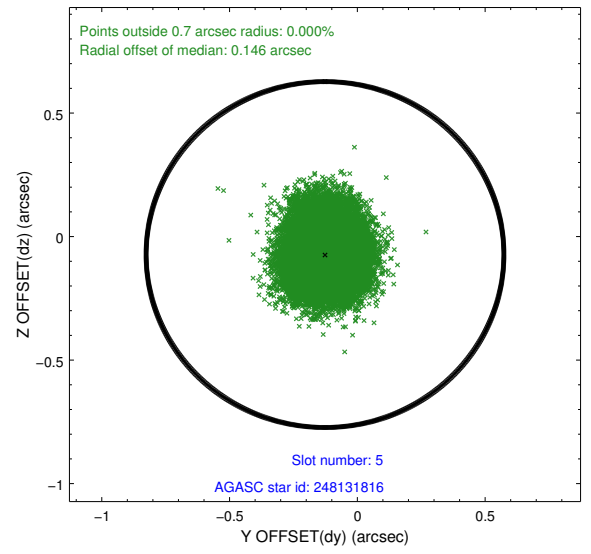
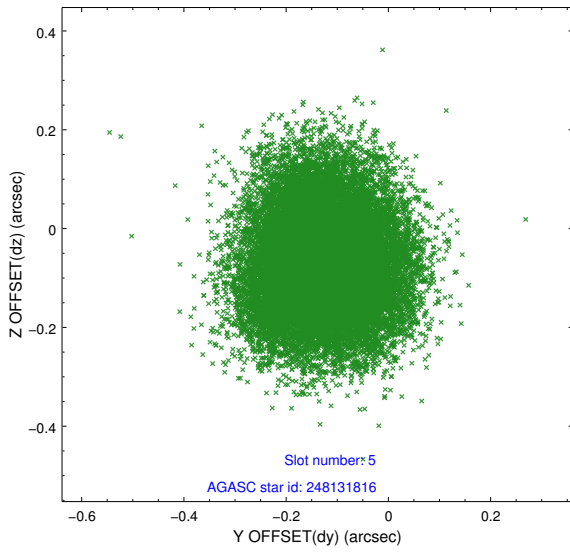
2.4.1 Slot 3



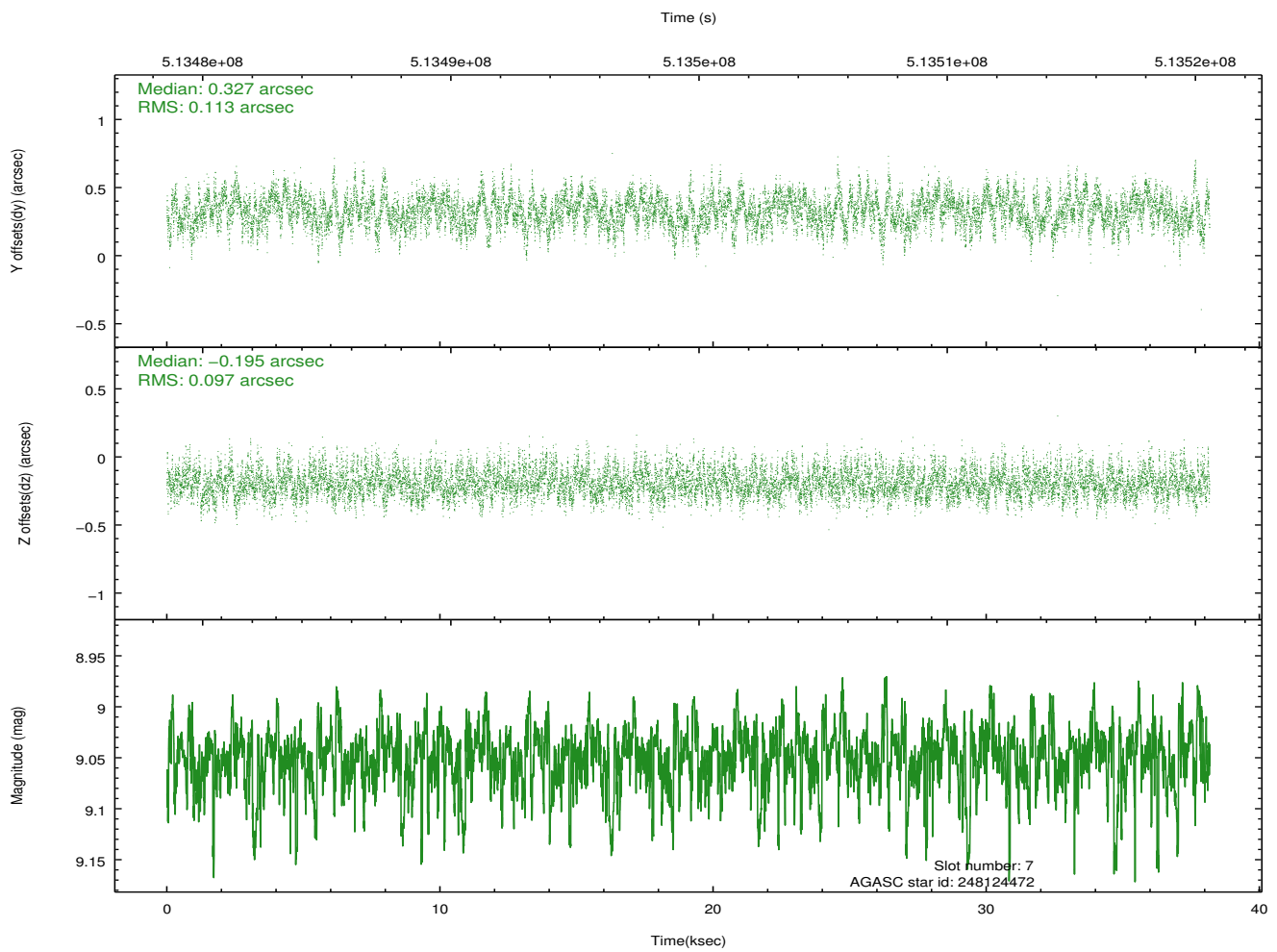
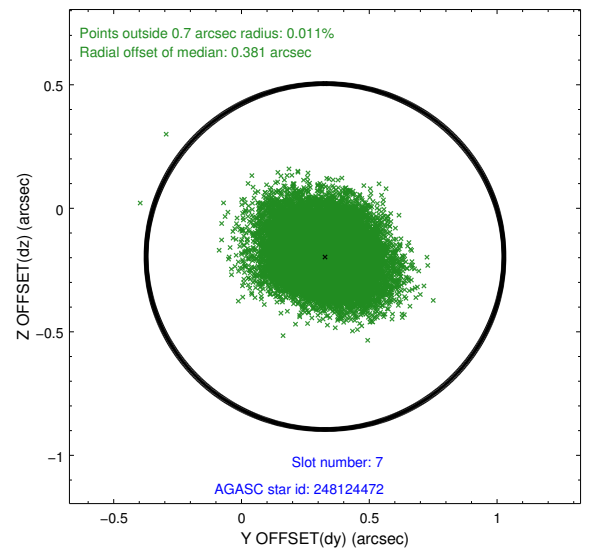
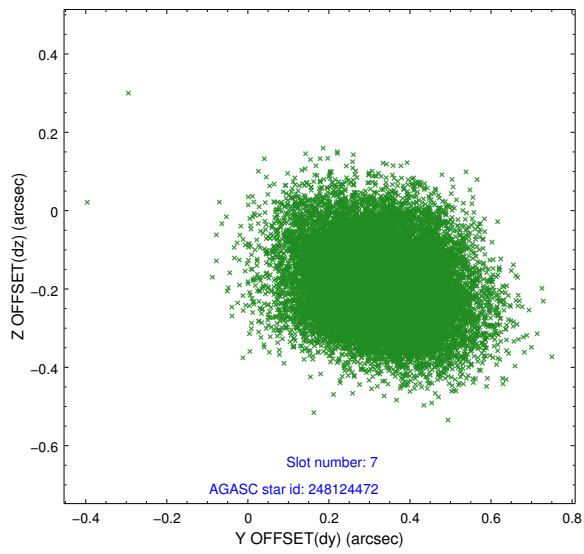
2.4.2 Slot 4



2.4.3 Slot 5

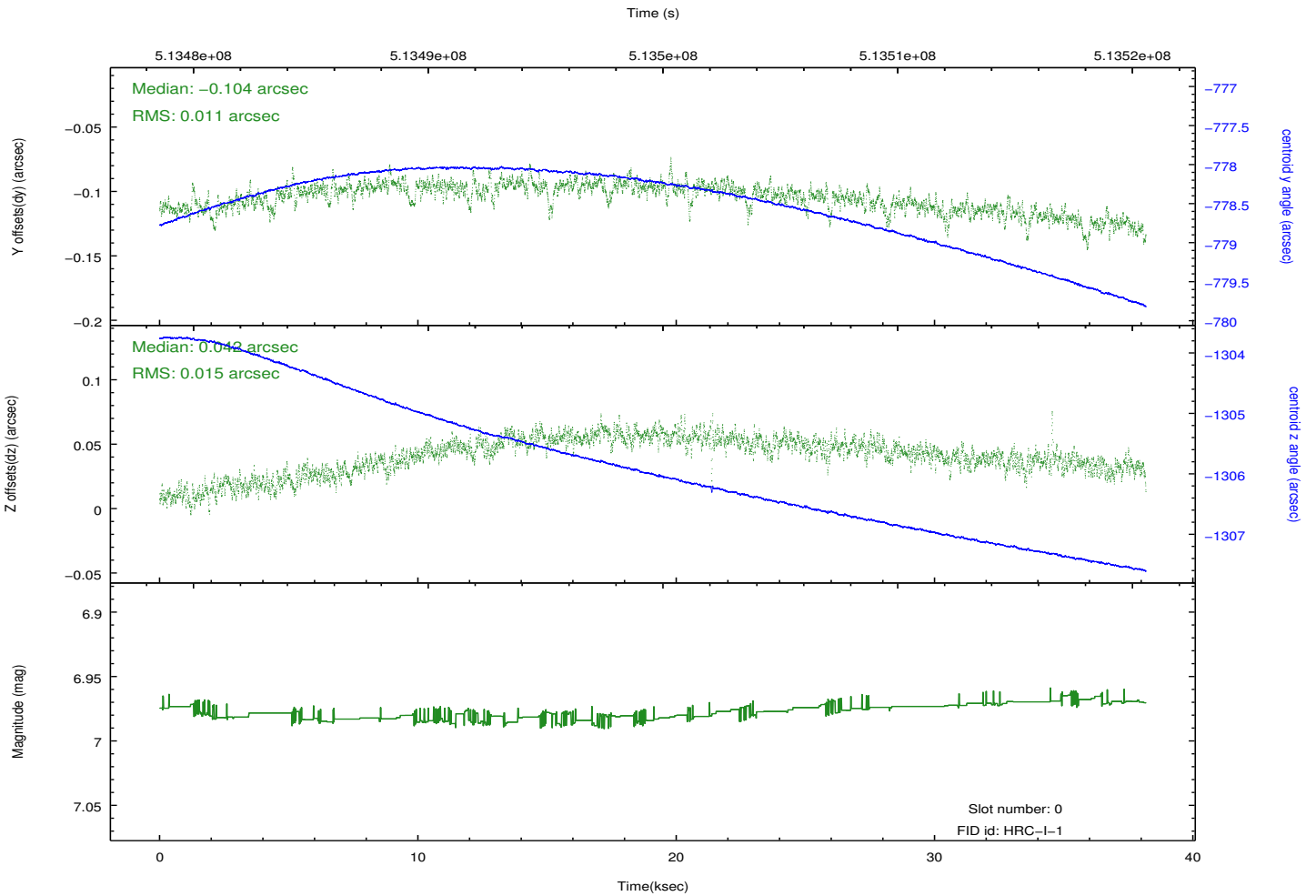
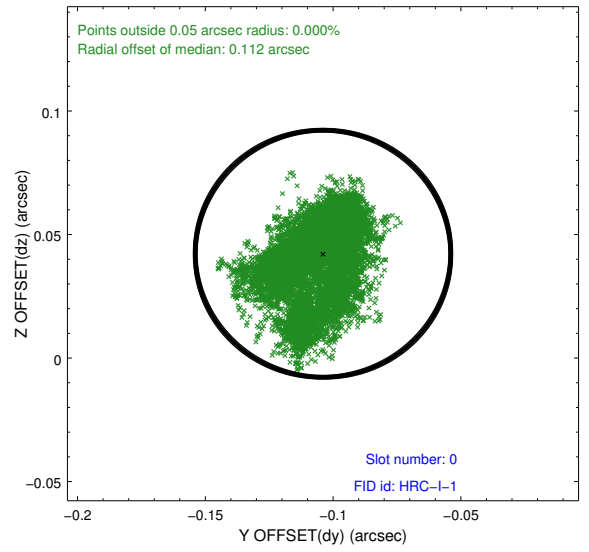
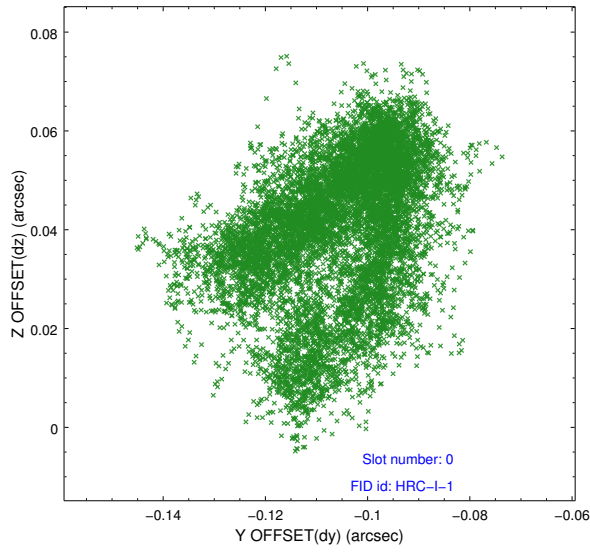


2.4.4 Slot 7

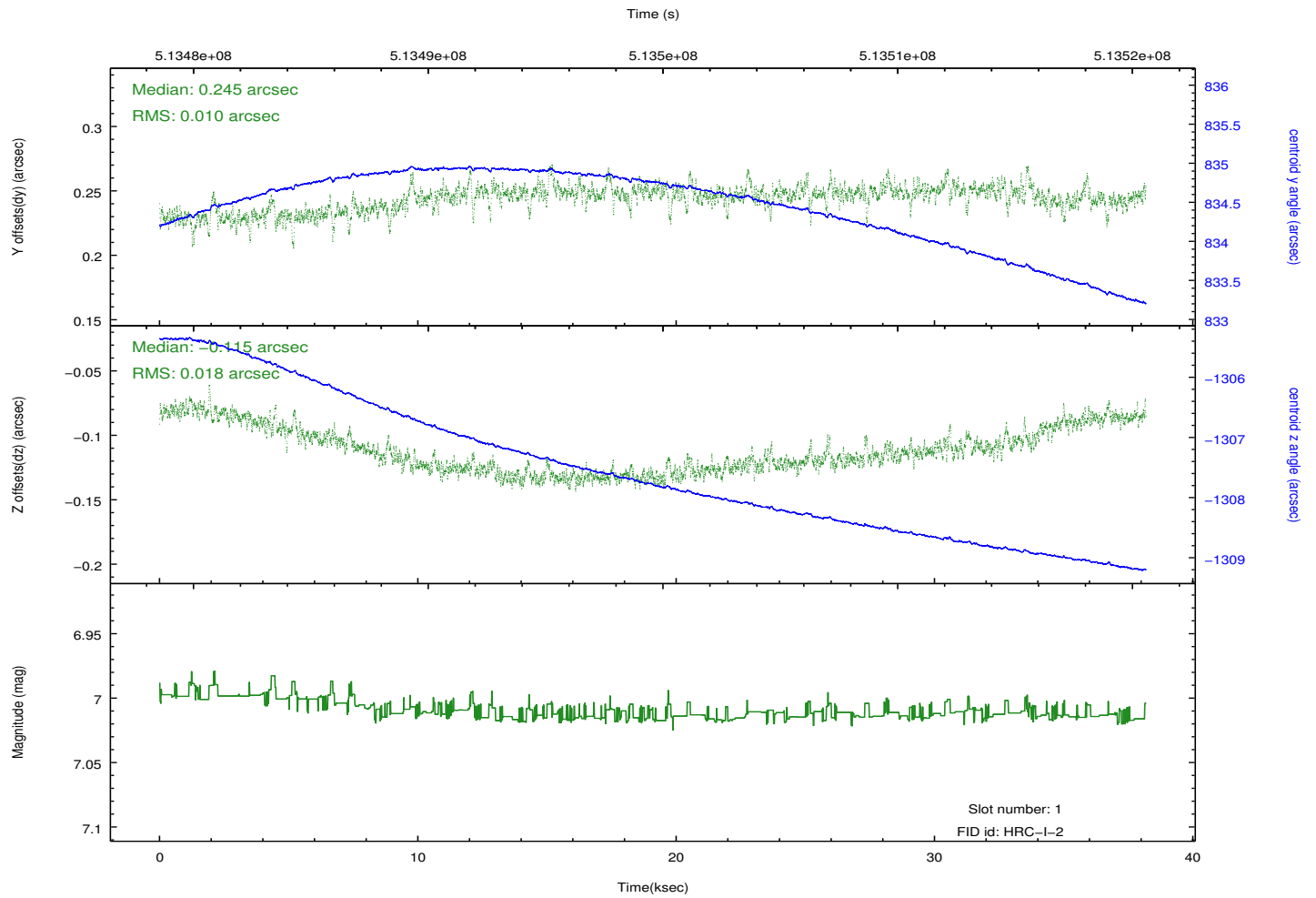
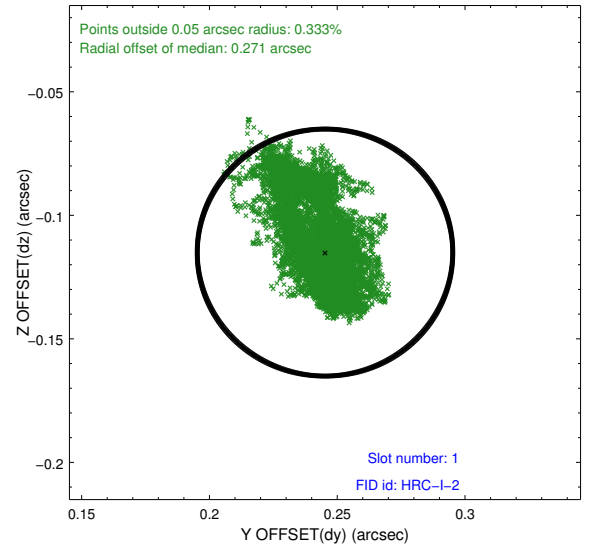
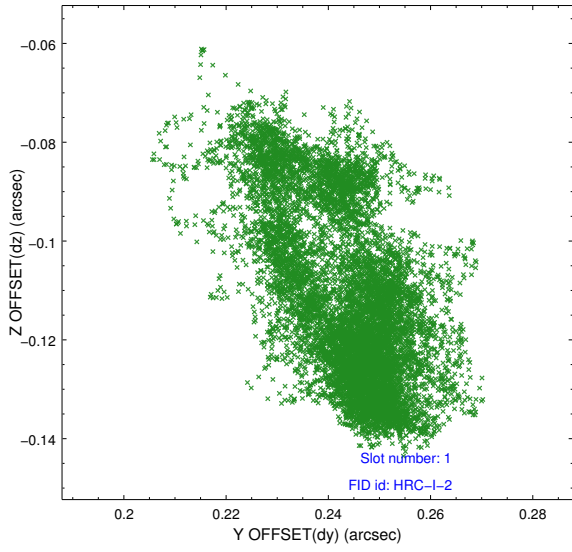


2.5 FID Slots

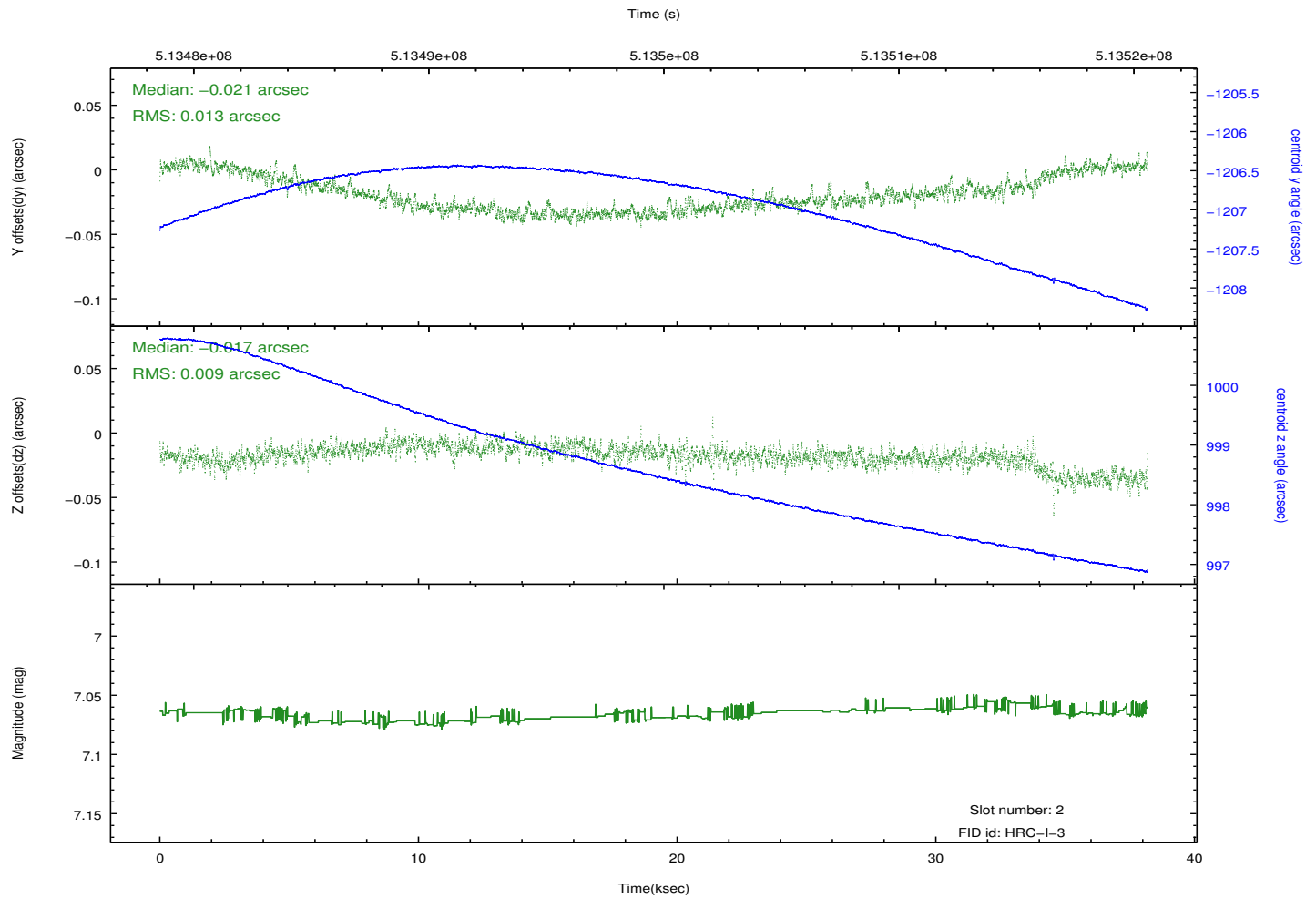
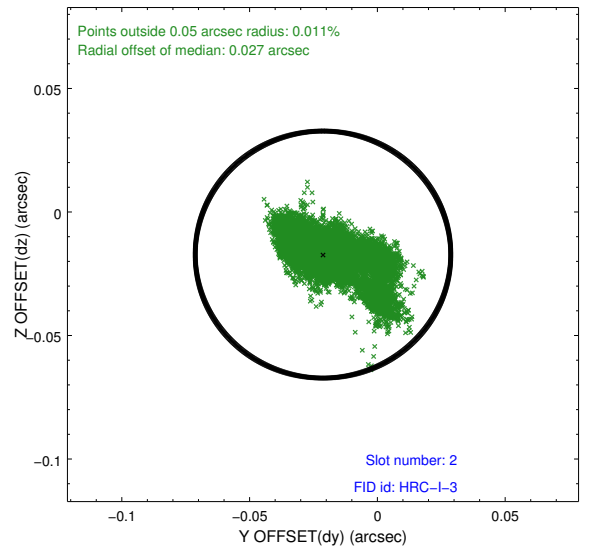
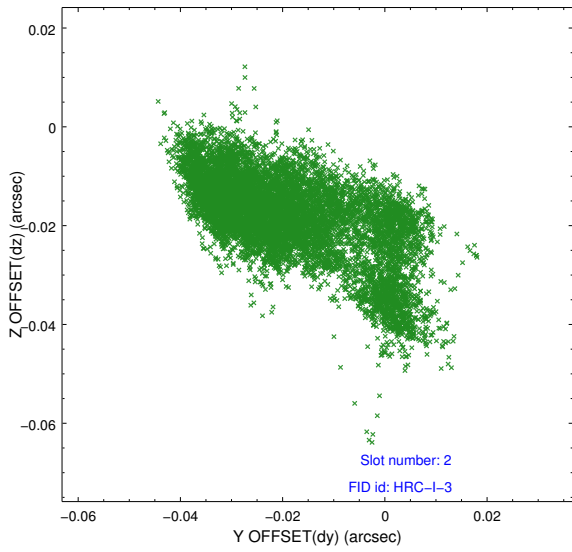
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.795852085948

A.2 Comments

Window preference met.

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.

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

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.