

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14305 - L2 Version 2
Chandra X-Ray Center

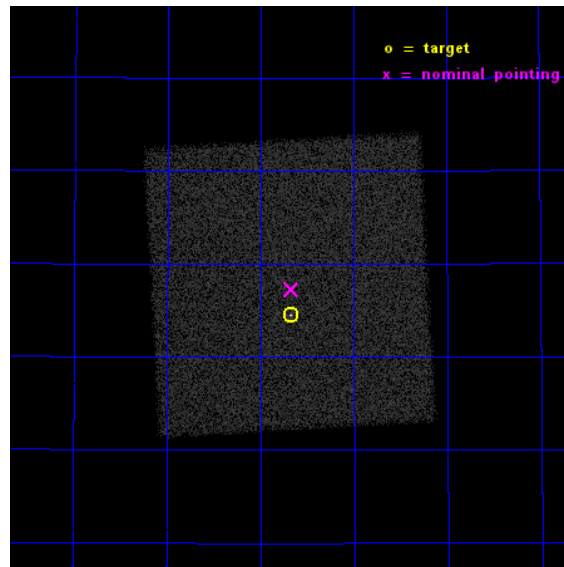
L2 Processing Date : Nov 27 2014

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1 Front

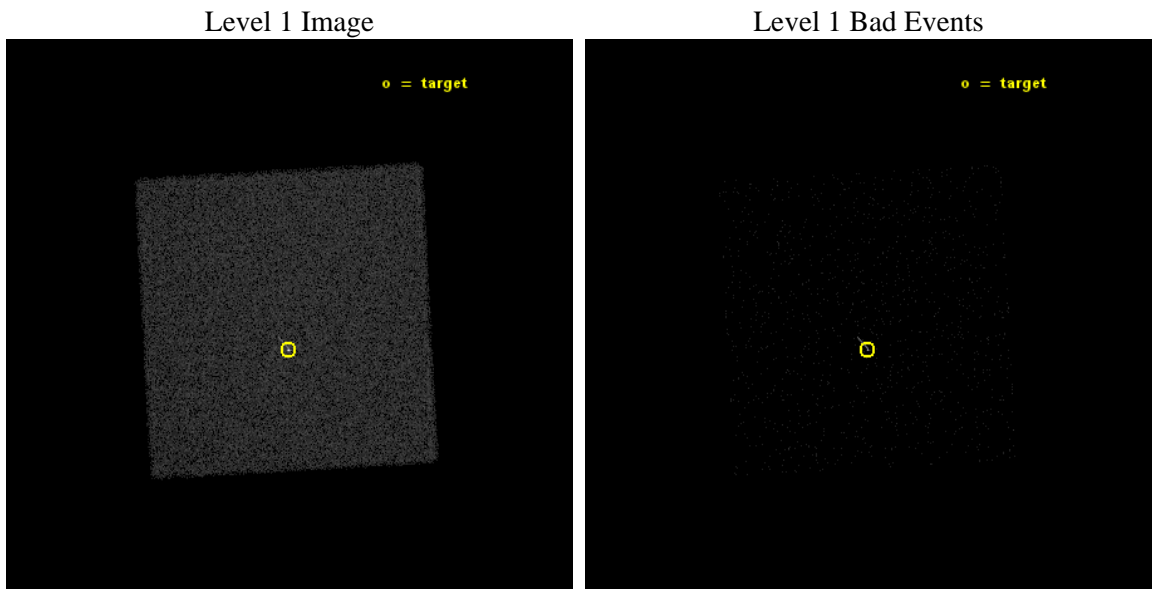
seq_num	291056	Sequence number
obs_id	14305	Observation id
title	AO-13 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16717170076	Nominal RA [deg]
dec_nom	45.788065113453	Nominal Dec [deg]
roll_nom	221.82072729526	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1180.0313131213	[s]
livetime	1169.9252147668	Ontime multiplied by DTCOR
l2events	77141	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	Processing system revision	ontime	1180.0313131213	[s]
caldbver	4.6.4	 	l1events	133056	Number of level 1 events
date	2014-11-27T07:25:19	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

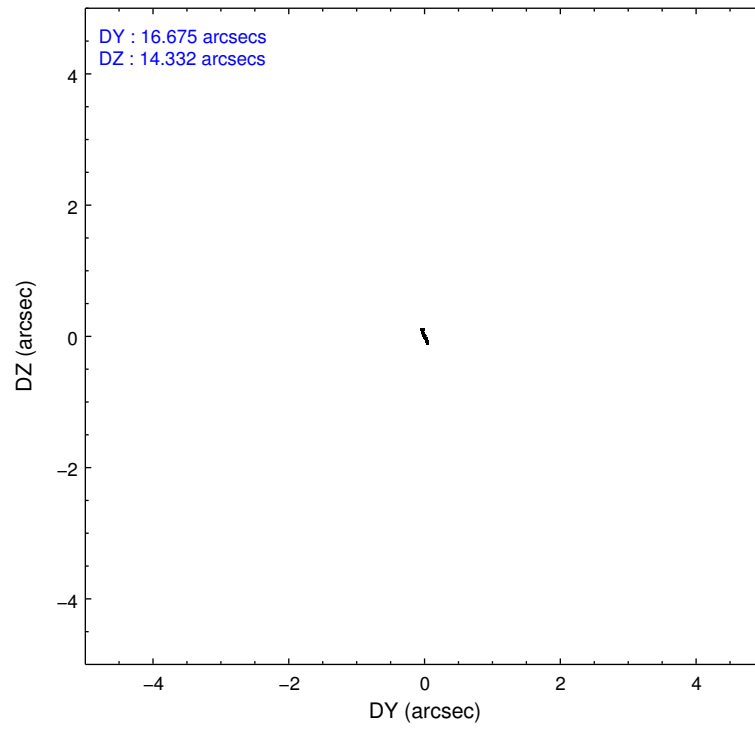
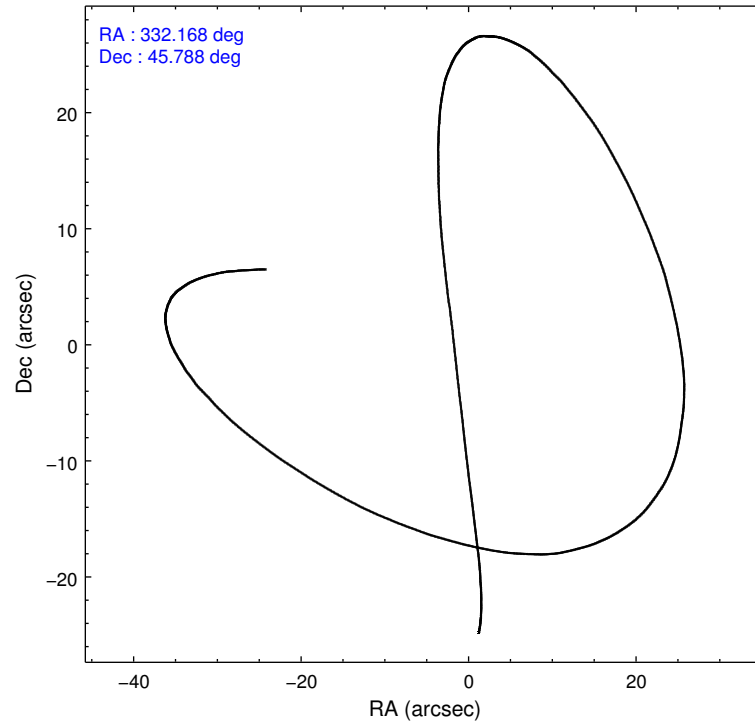
Level 1 Events

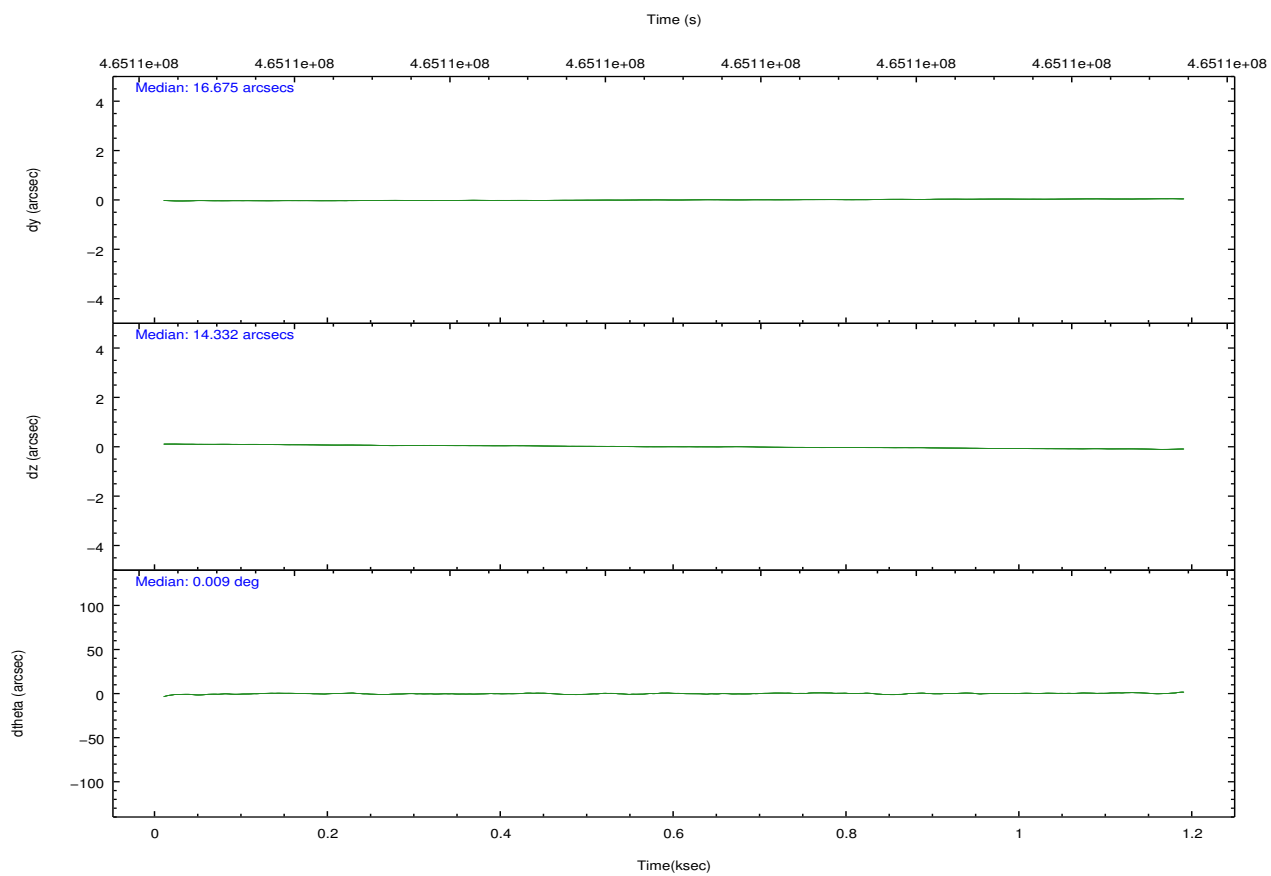
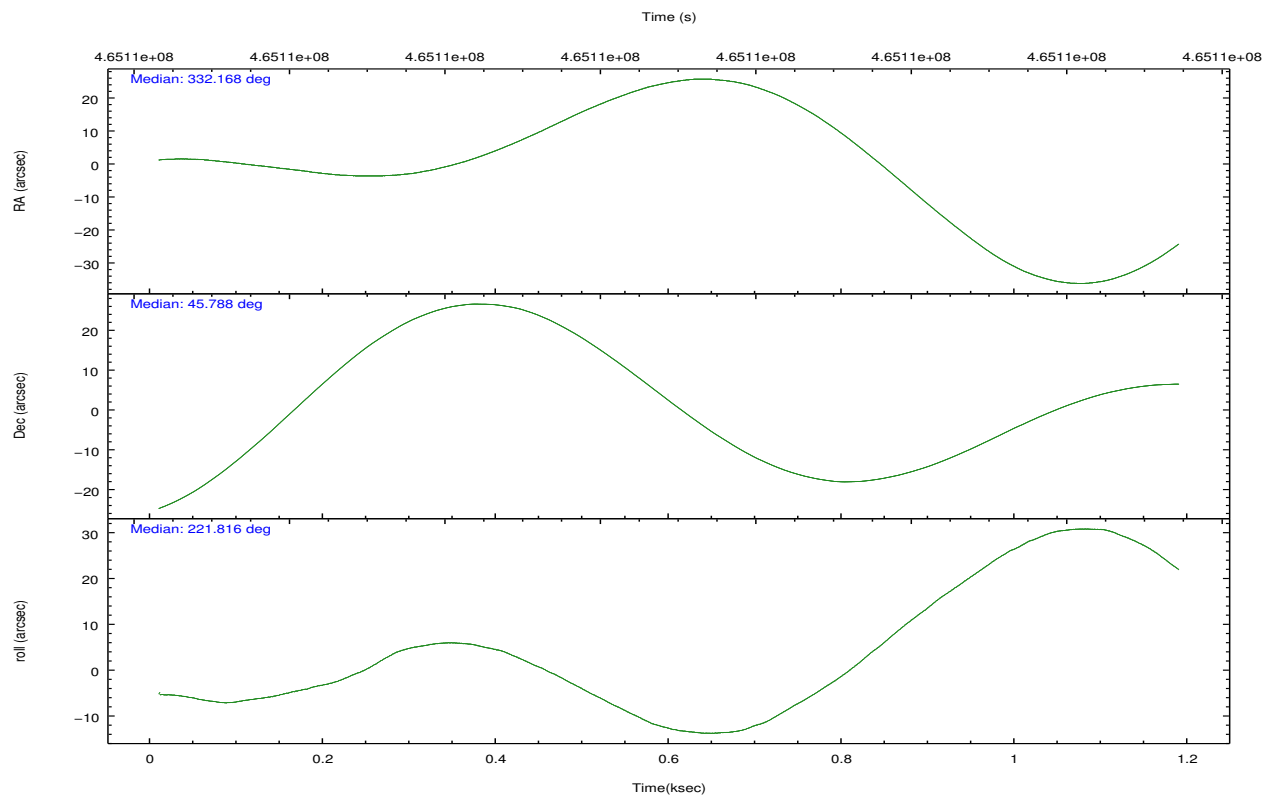
	segment 0
level 1 events	133056
rejected events	29066
rejected %	21%

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	332.179274	332.1671717007577			
[deg] Pointing Dec	45.813946	45.78806511345314			
[deg] Pointing Roll	221.907547	221.820727295262			
[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)	465112288.184000	465111911.77144			
Observation start date	2012-09-27T05:50:21	2012-09-27T05:45:11			
[s] Observation end time (MET)	465113288.184000	465113422.10902			
Observation end date	2012-09-27T06:07:01	2012-09-27T06:10:22			

2.3 Aspect



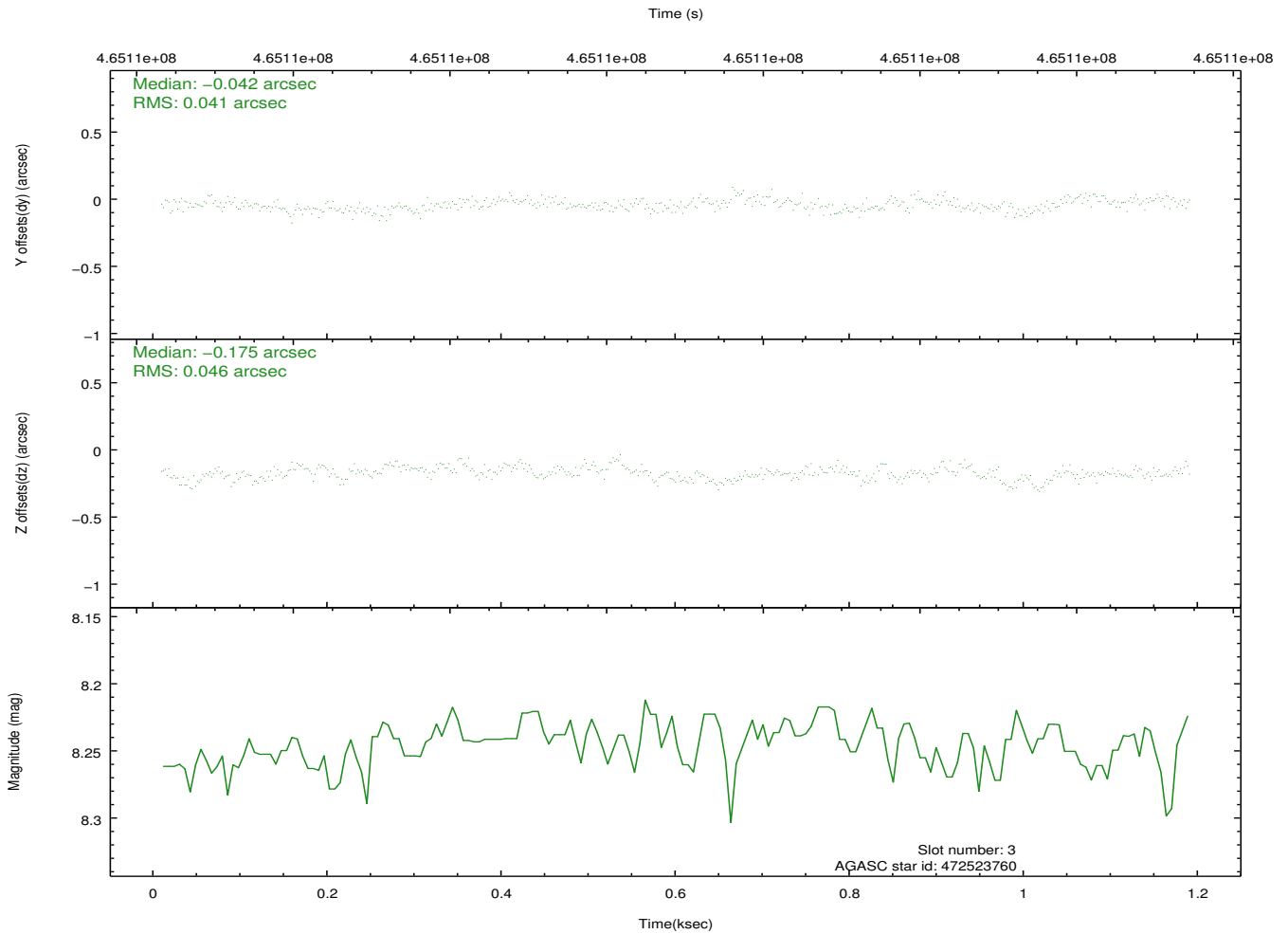
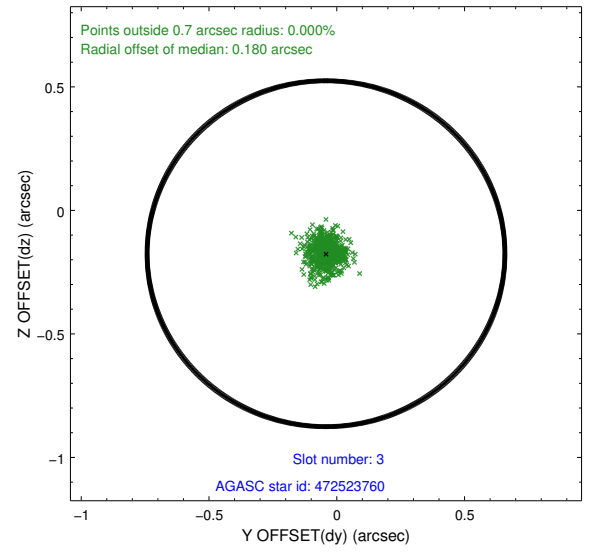
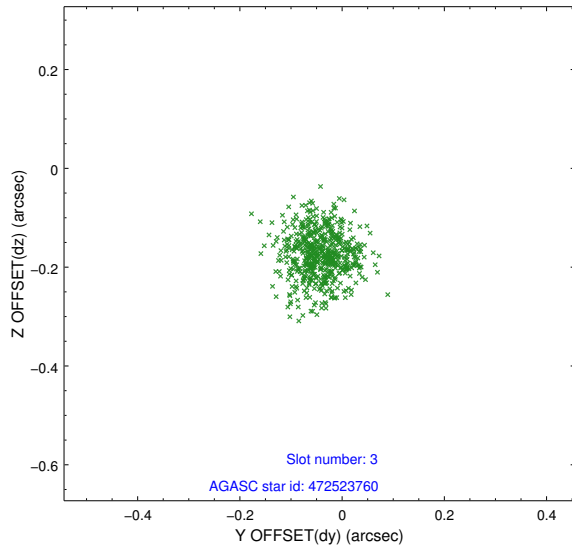


Slot Statistics

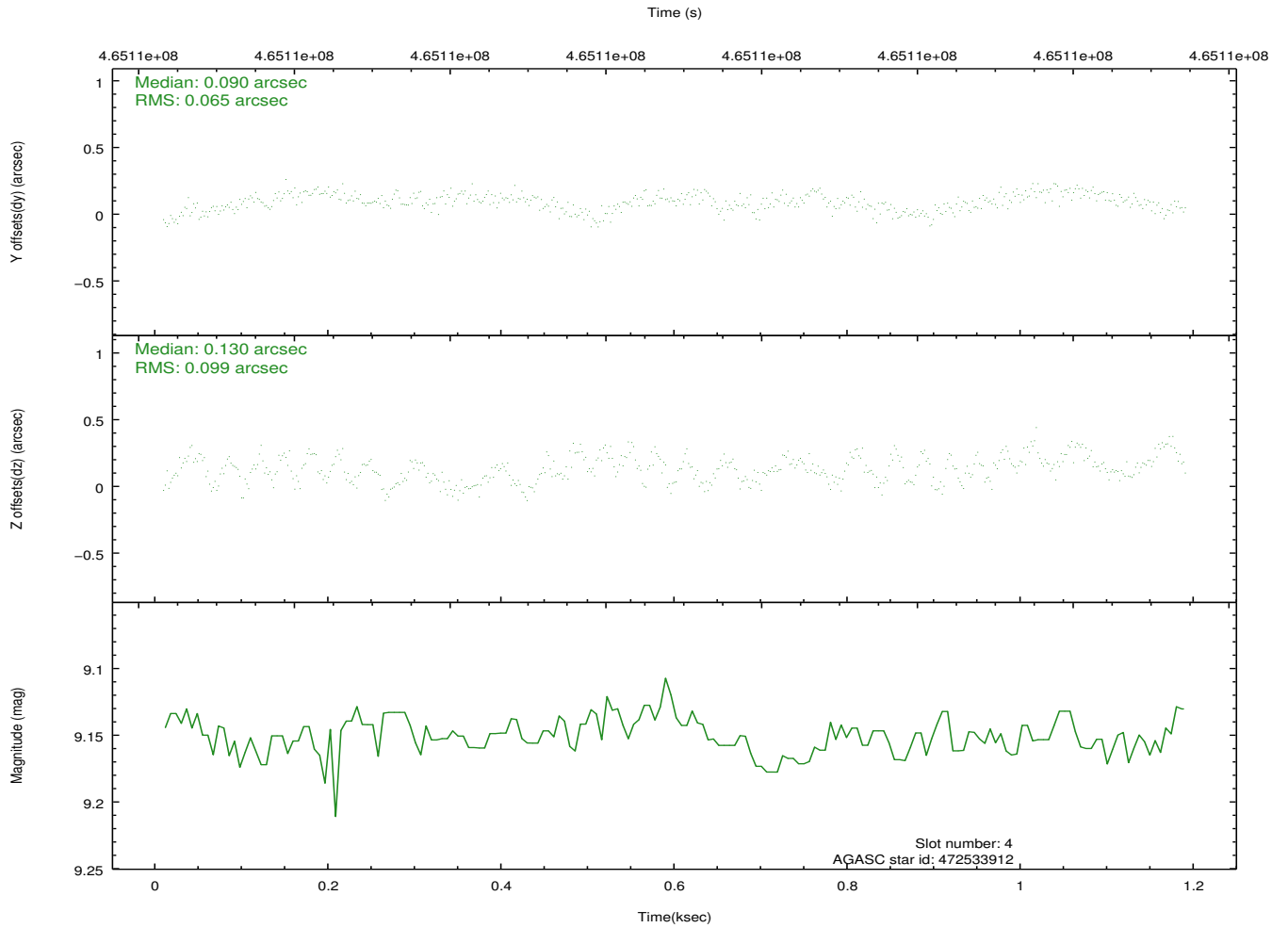
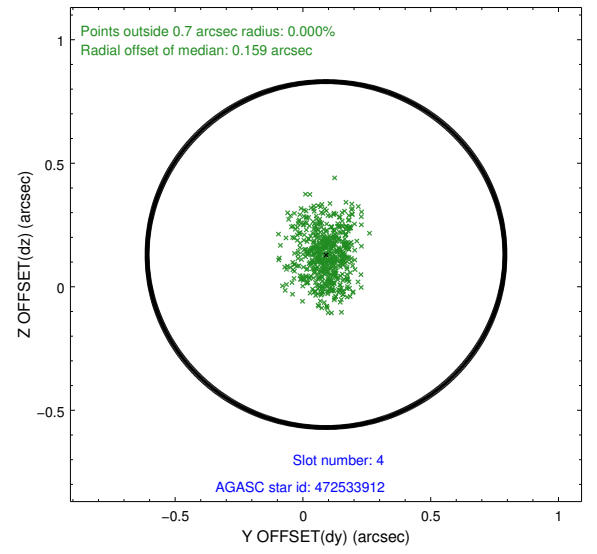
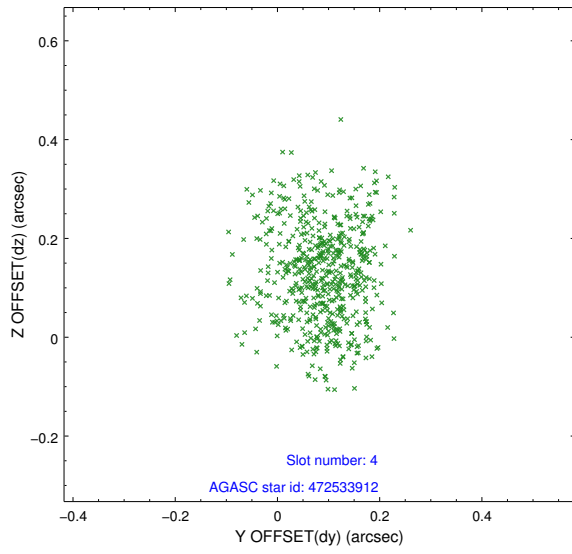
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.04	288	-0.126	-0.000	0.007	0.011	0.000000	0.000000	-772.65	-1302.40
1	FID		HRC-I-2	7.07	288	0.267	-0.106	0.006	0.012	0.000000	0.000000	837.69	-1308.60
2	FID		HRC-I-3	7.12	288	-0.022	0.017	0.007	0.015	0.000000	0.000000	-1198.12	997.64
3	GUIDE	used	472523760	8.24	576	-0.042	-0.175	0.067	0.109	331.645363	45.403260	1988.22	197.55
4	GUIDE	used	472533912	9.15	577	0.090	0.130	0.130	0.204	331.791136	46.368695	-615.03	-2129.59
5	GUIDE	used	472654568	9.40	576	-0.007	0.104	0.136	0.225	332.194449	45.063576	1773.74	2034.71
6	GUIDE	used	472655152	9.43	577	0.071	-0.048	0.134	0.220	332.504239	45.862991	-722.93	417.10
7	GUIDE	used	472659832	9.44	576	-0.126	-0.005	0.146	0.221	332.780399	46.098139	-1806.03	239.28

2.4 Star Slots

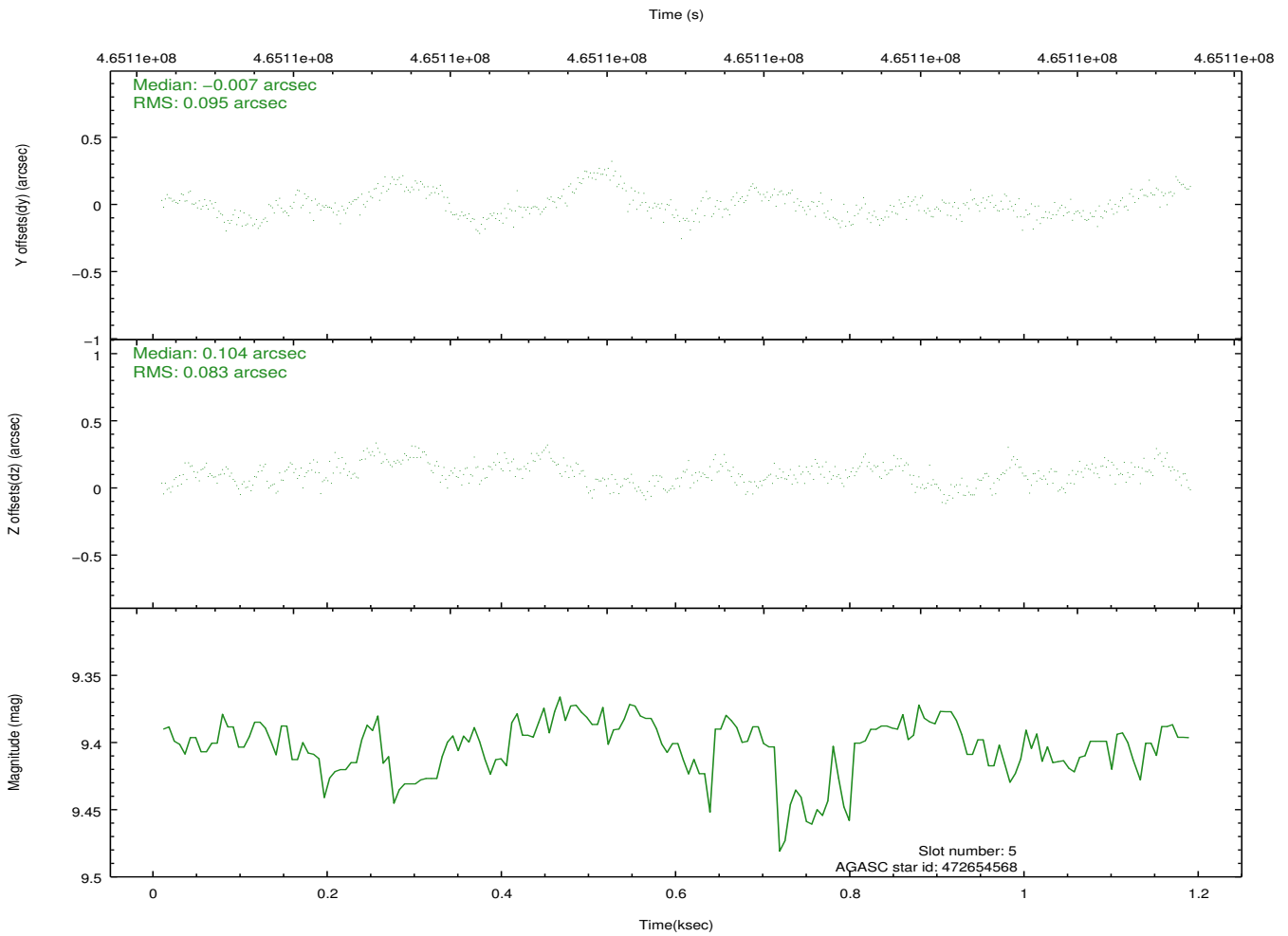
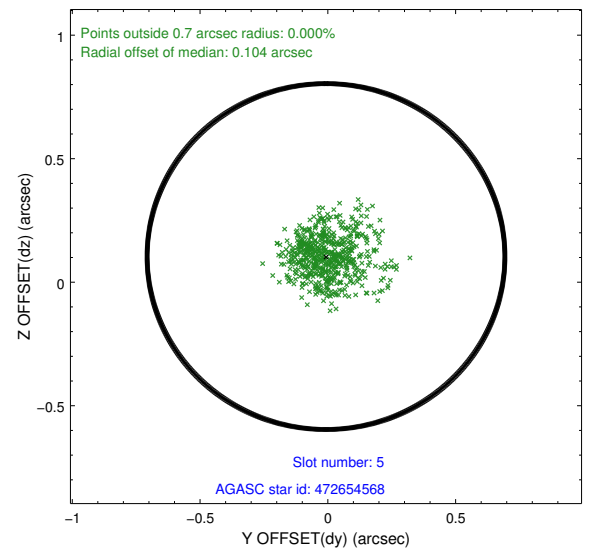
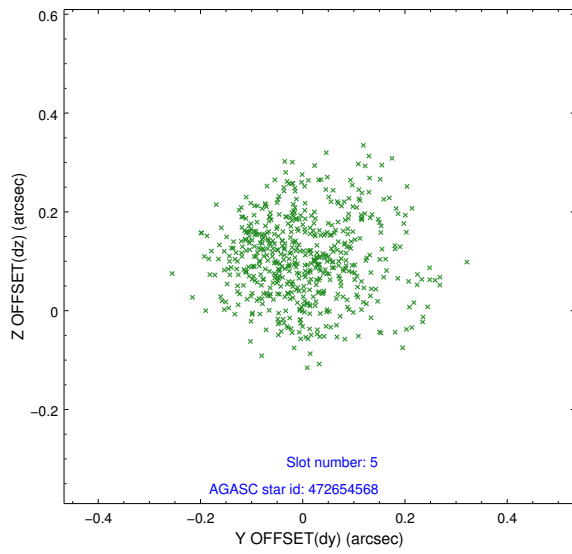
2.4.1 Slot 3



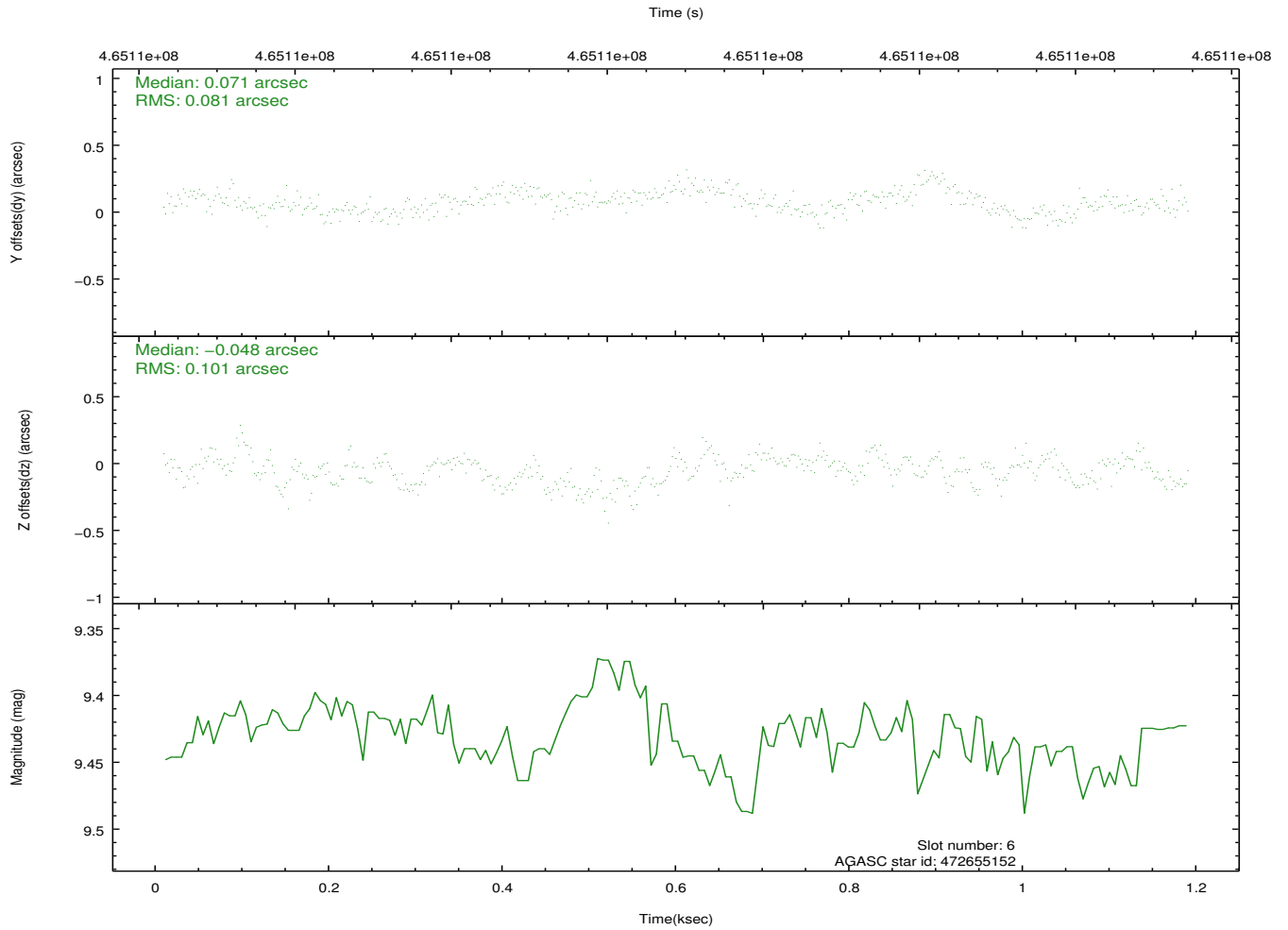
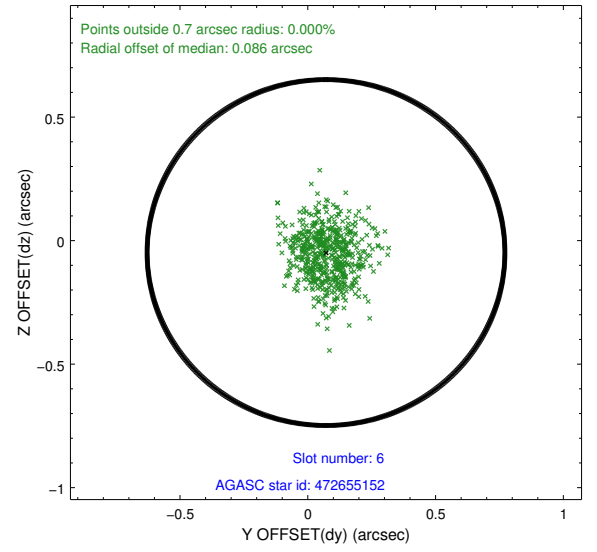
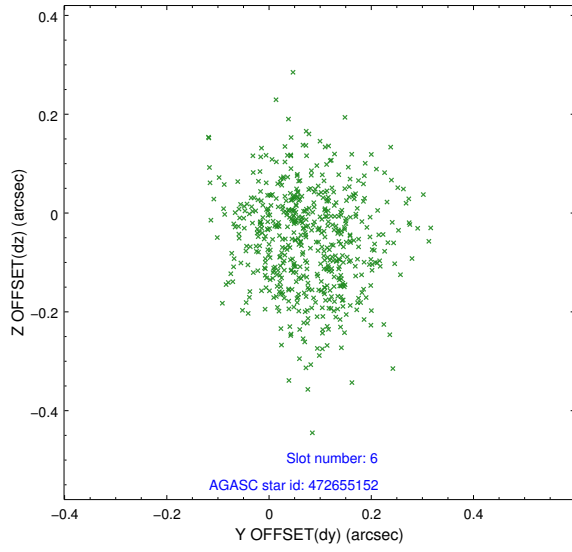
2.4.2 Slot 4



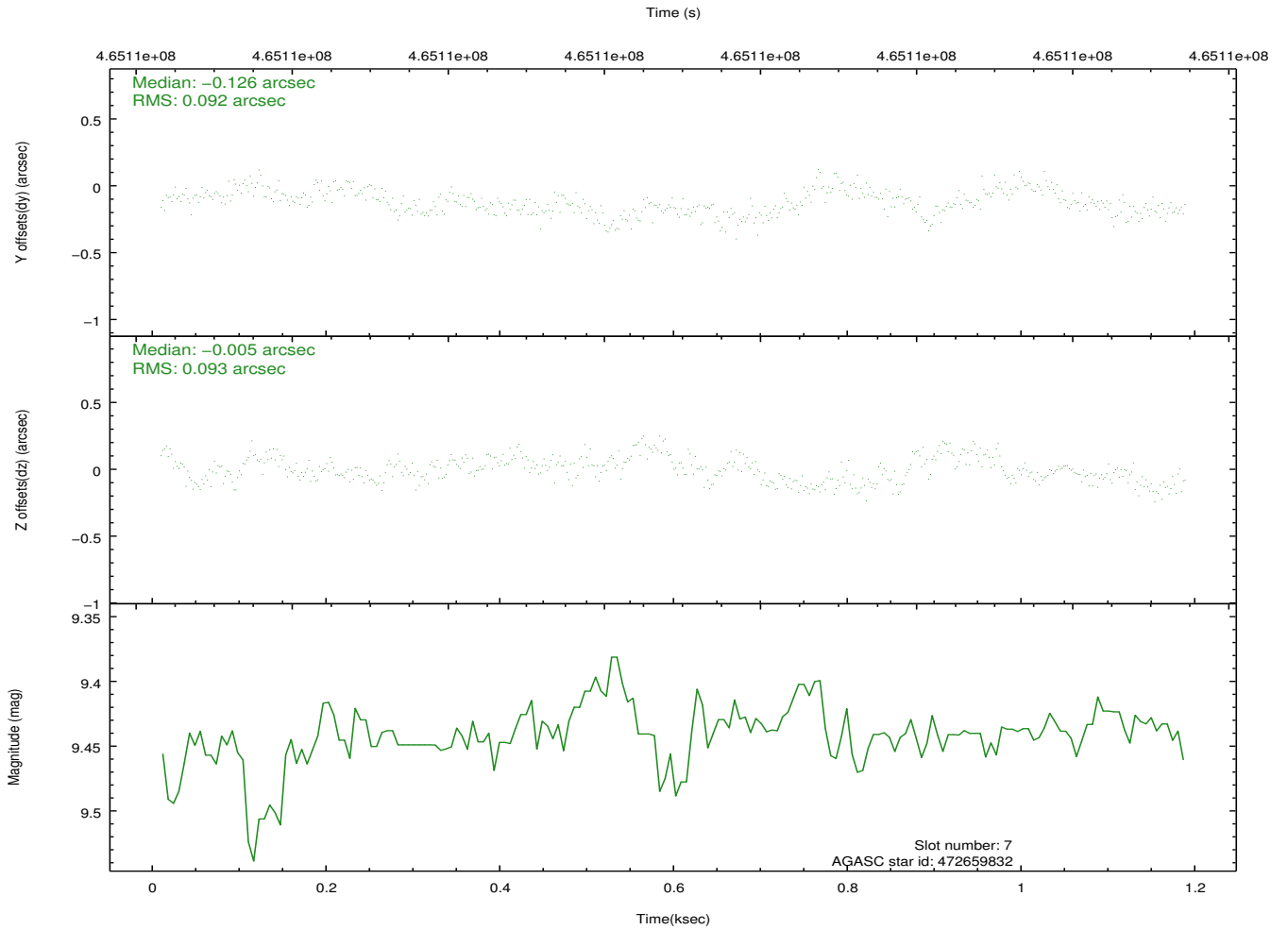
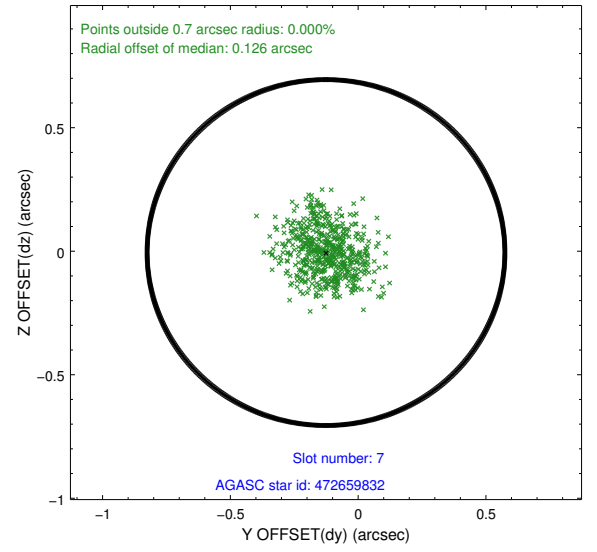
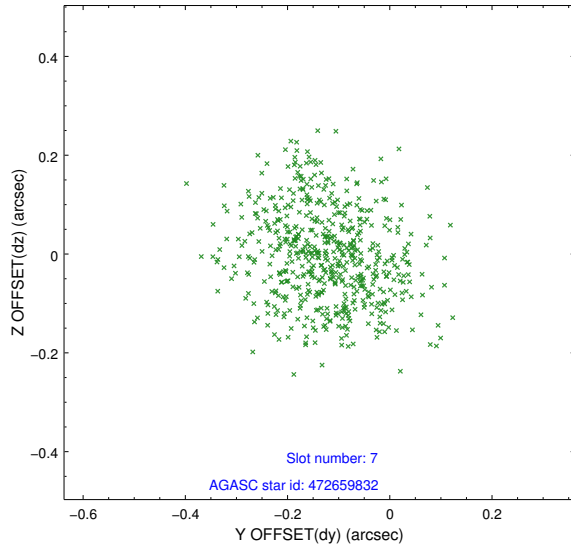
2.4.3 Slot 5



2.4.4 Slot 6

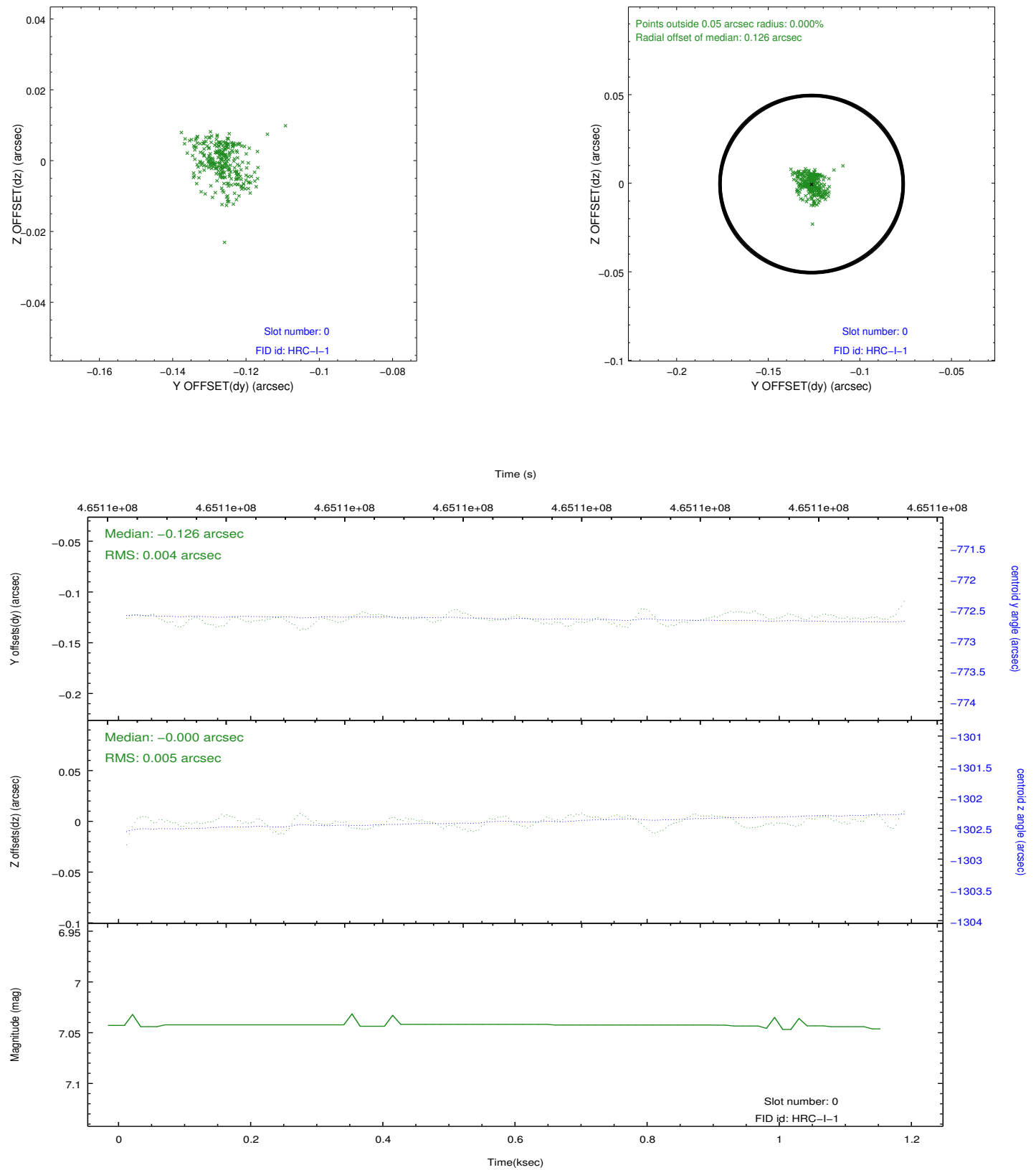


2.4.5 Slot 7

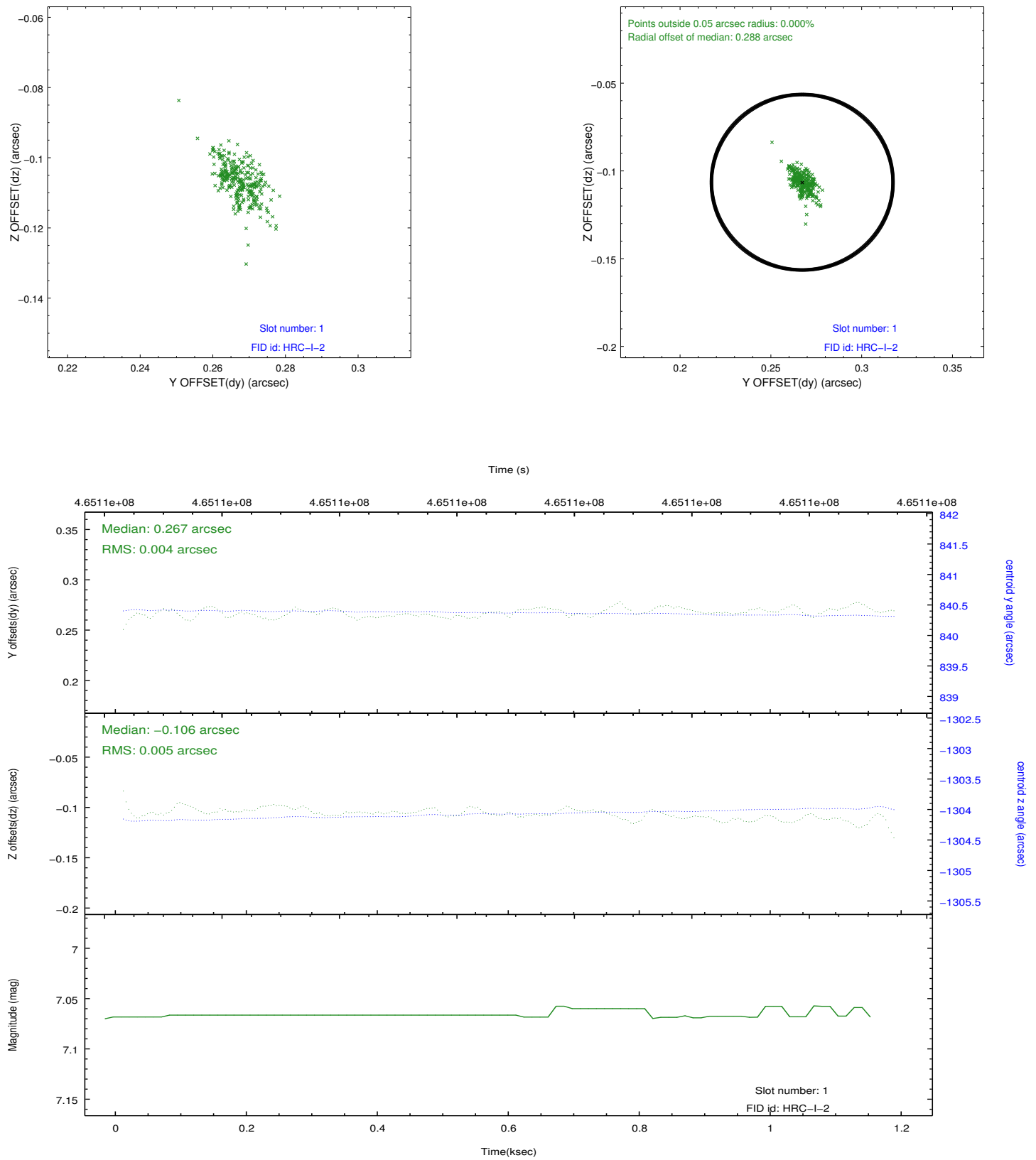


2.5 FID Slots

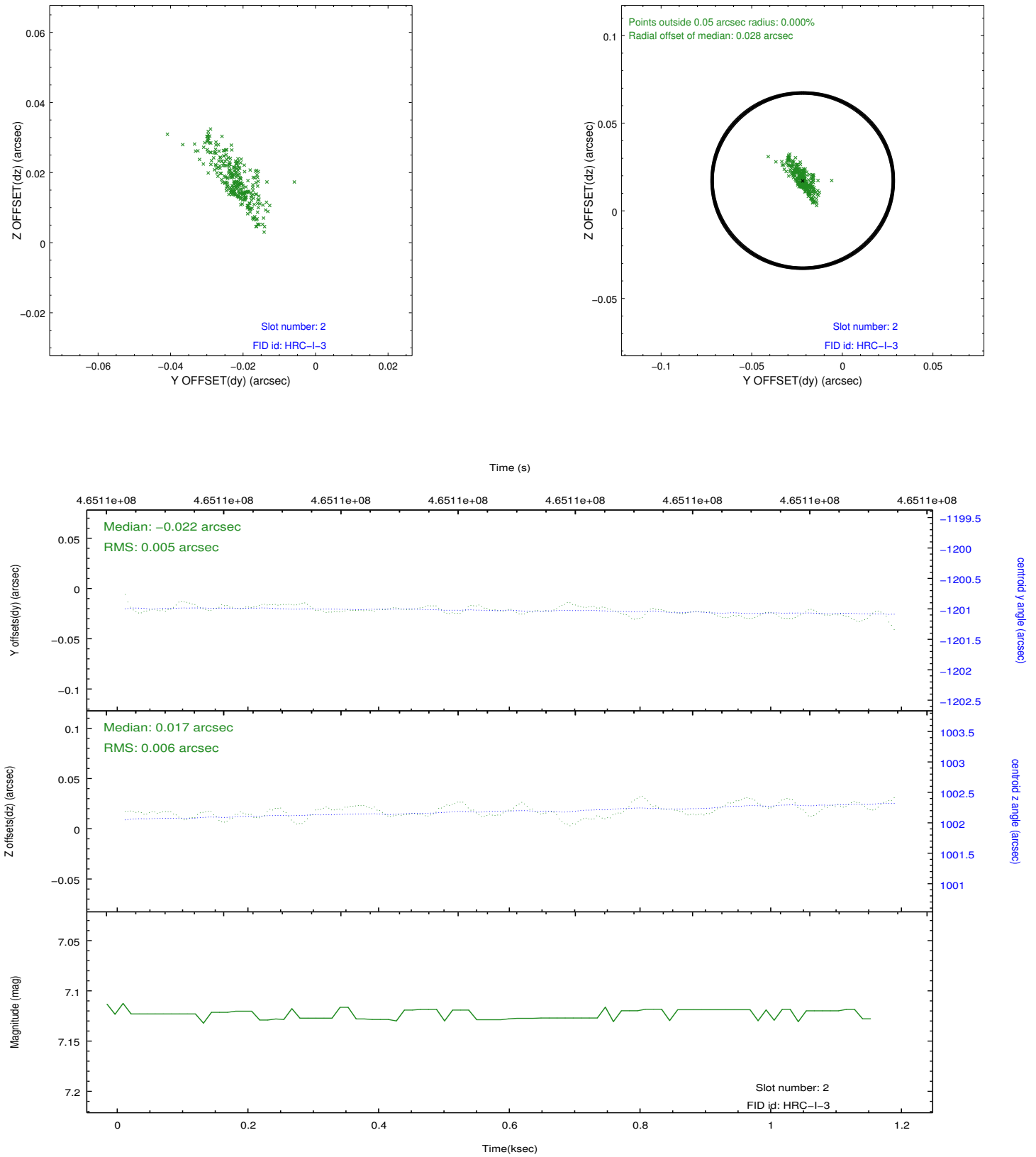
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1800313131213

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.