

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1773 - L2 Version 5
Chandra X-Ray Center

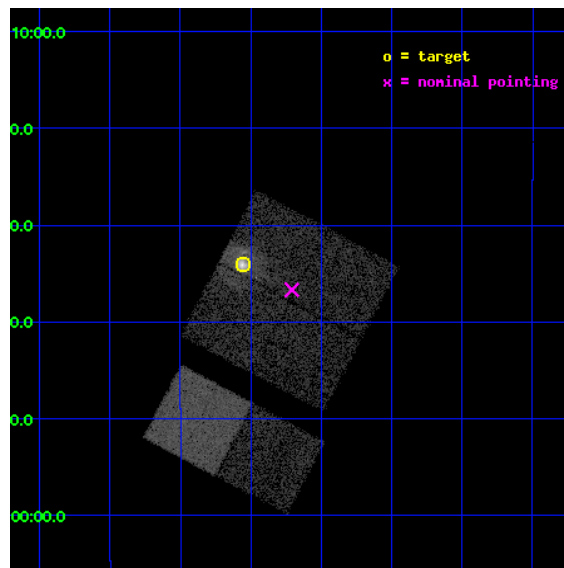
L2 Processing Date : Aug 30 2012

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1 Front

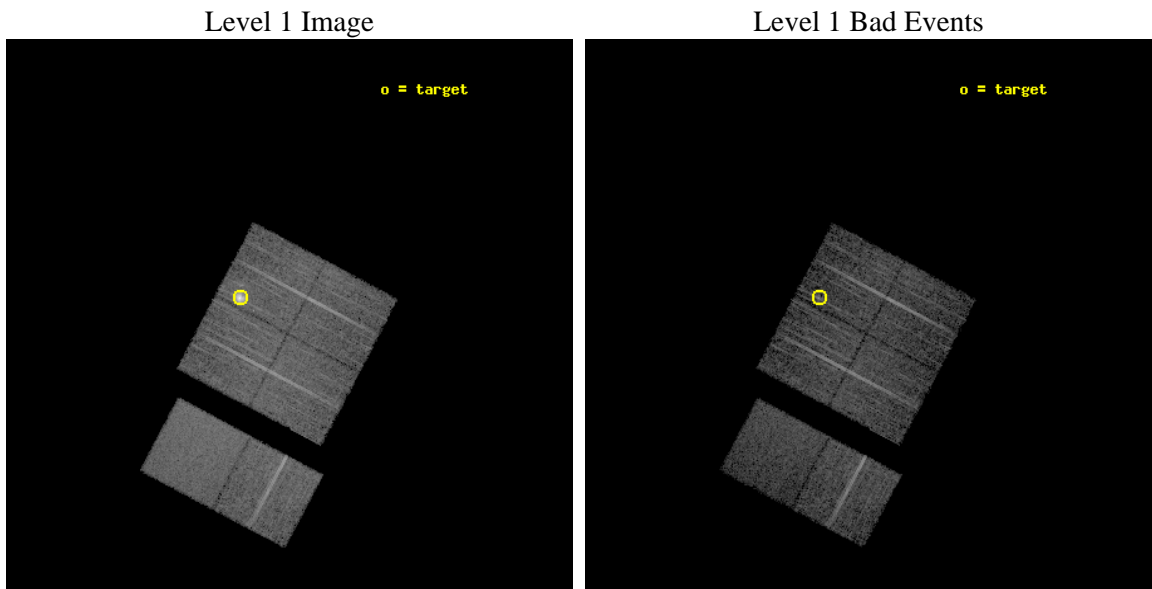
seq_num	590199	Sequence number
obs_id	1773	Observation id
title	HRC RESPONSE TO CONTINUUM SOURCE.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip I1, T=110, Offsets=-5,0,-1]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.30196698826	Nominal RA [deg]
dec_nom	-10.611546311939	Nominal Dec [deg]
roll_nom	207.87174266115	Nominal Roll [deg]
revision	5	Processing version of data
ontime	7314.8013248742	Sum of GTIs [s]
livetime	7222.176906054	Livetime [s]
ontime0	7314.7602848709	Sum of GTIs [s]
ontime1	7314.8013248742	Sum of GTIs [s]
ontime2	7314.8423648775	Sum of GTIs [s]
ontime3	7314.8834048659	Sum of GTIs [s]
ontime6	7314.9654848725	Sum of GTIs [s]
ontime7	7314.9244448692	Sum of GTIs [s]
l2events	63953	Number of level 2 events



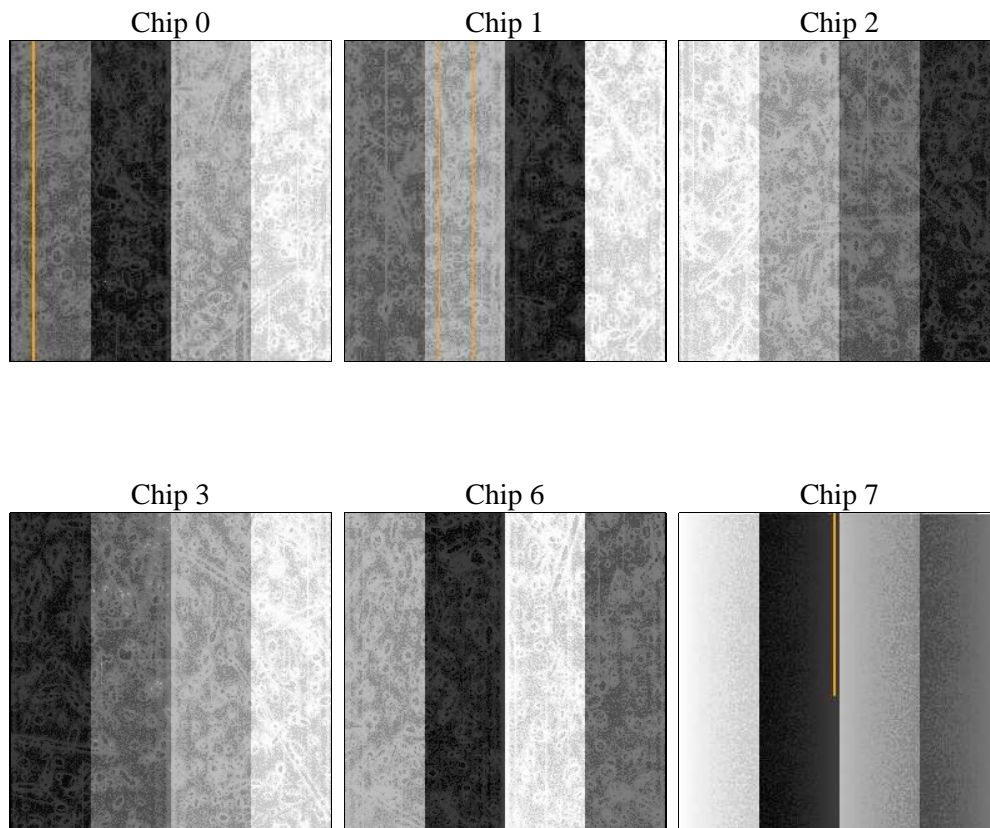
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7560.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7314.8013248742	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime0	7314.7602848709	Sum of GTIs [s]
date	2012-08-30T03:42:05	Date and time of file creation	ontime1	7314.8013248742	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	7314.8423648775	Sum of GTIs [s]
			ontime3	7314.8834048659	Sum of GTIs [s]
			ontime6	7314.9654848725	Sum of GTIs [s]
			ontime7	7314.9244448692	Sum of GTIs [s]
			l1events	328307	Number of level 1 events

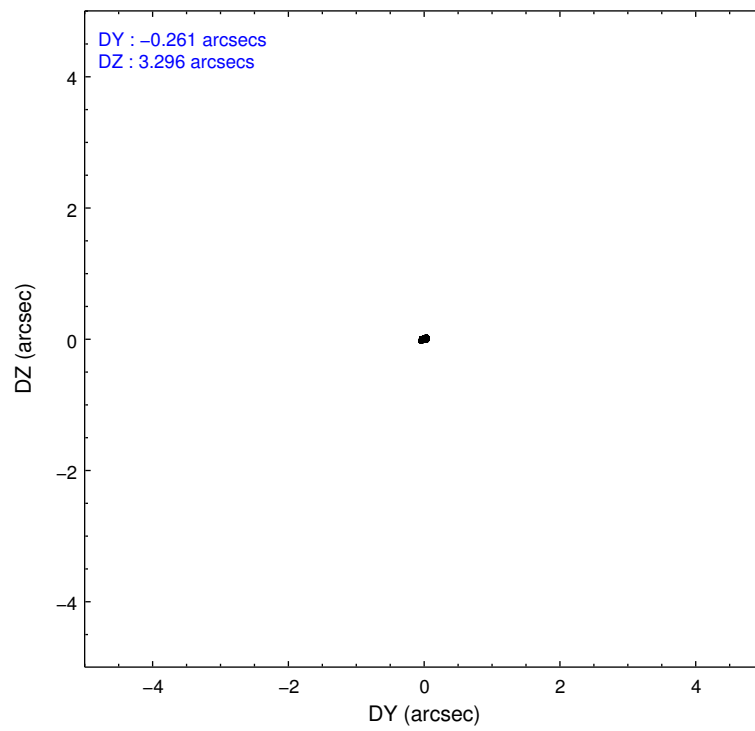
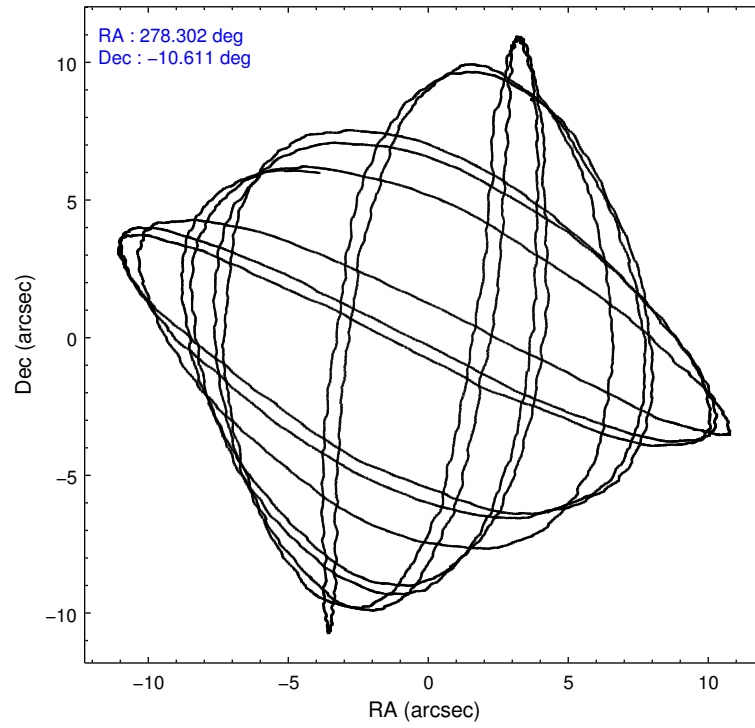
2.1.4 Events

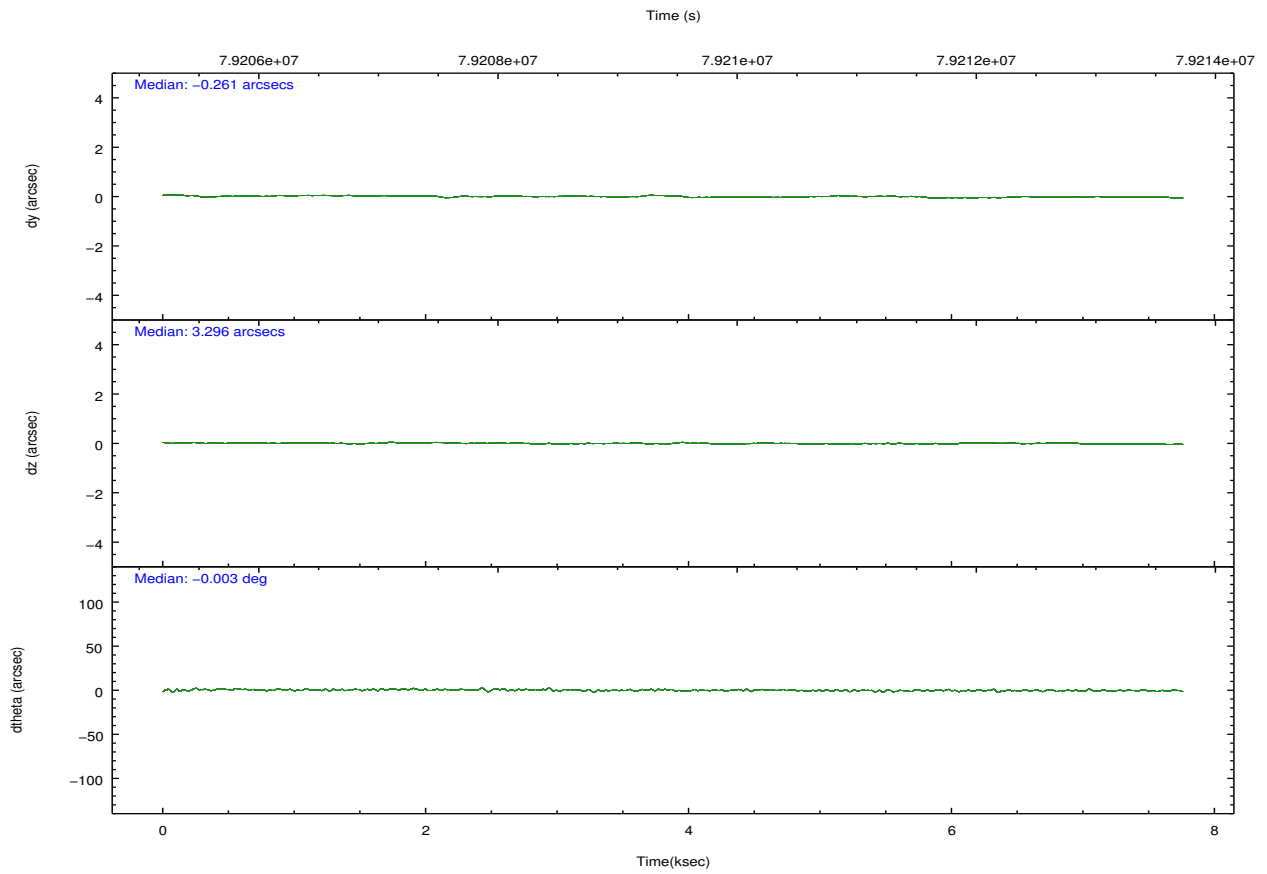
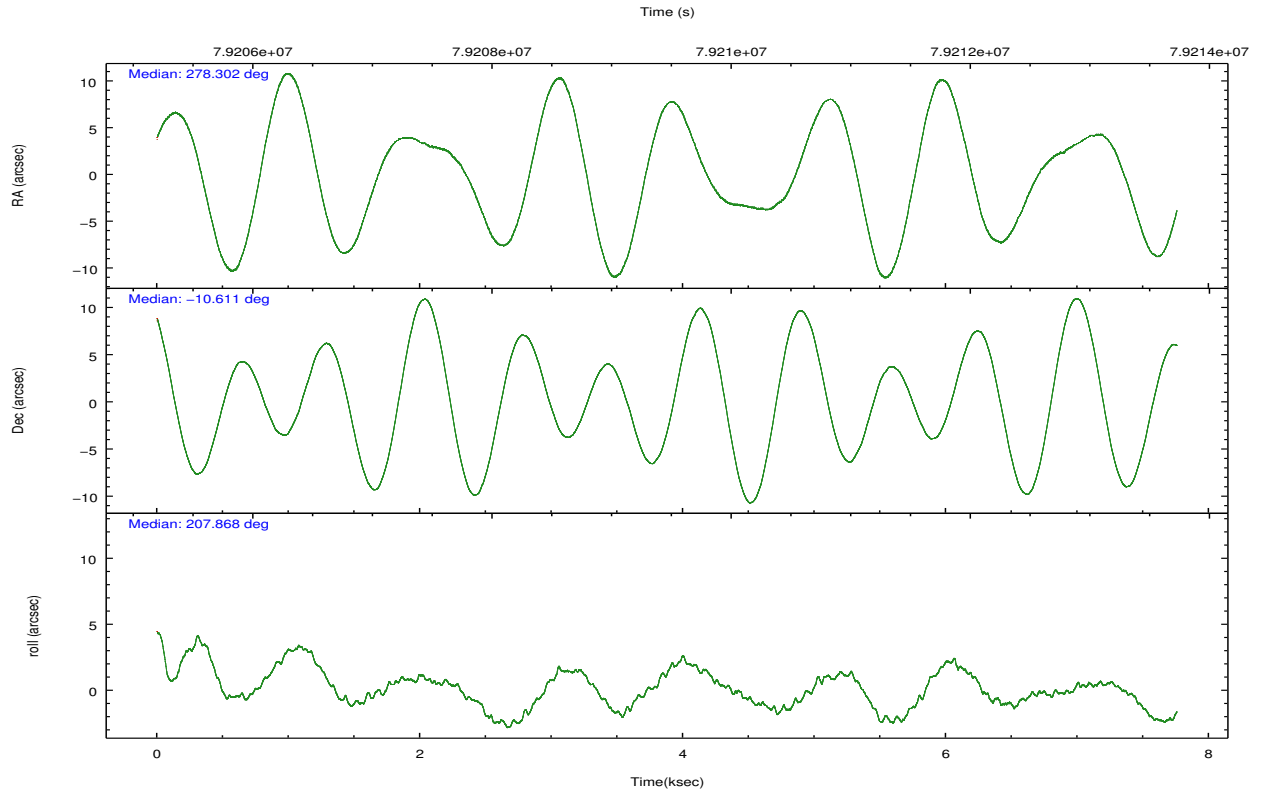
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45535	68908	51643	52767	52949	56505	grade 0 events	1463	15887	1136	1904	1028	1153
rejected events	40052	42405	46580	46519	47682	35380		3%	23%	2%	3%	1%	2%
rejected %	87%	61%	90%	88%	90%	62%	grade 1 events	14	110	15	17	6	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	2059	5335	2048	2314	2106	4509
								4%	7%	3%	4%	3%	7%
							grade 3 events	384	1280	325	360	339	1256
								0%	1%	0%	0%	0%	2%
							grade 4 events	338	1319	334	325	303	1087
								0%	1%	0%	0%	0%	1%
							grade 5 events	1010	1246	919	1118	1243	3497
								2%	1%	1%	2%	2%	6%
							grade 6 events	1242	2693	1222	1351	1492	13132
								2%	3%	2%	2%	2%	23%
							grade 7 events	39025	41038	45644	45378	46432	31837
								85%	59%	88%	85%	87%	56%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	278.317008	278.301966988264	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.588244	-10.61154631193929	Alternating exposures requested	N	N
[deg] Pointing Roll	207.665819	207.8717426611495	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-238.277263	-238.2741181829365			
[mm] SIM translation stage offset	4.6848	4.681665180006831			
[s] Observation start time (MET)	79205786.184000	79205409.892314			
Observation start date	2000-07-05T17:35:22	2000-07-05T17:30:09			
[s] Observation end time (MET)	79213346.184000	79213479.717611			
Observation end date	2000-07-05T19:41:22	2000-07-05T19:44:39			
Read mode	TIMED	TIMED			

2.3 Aspect



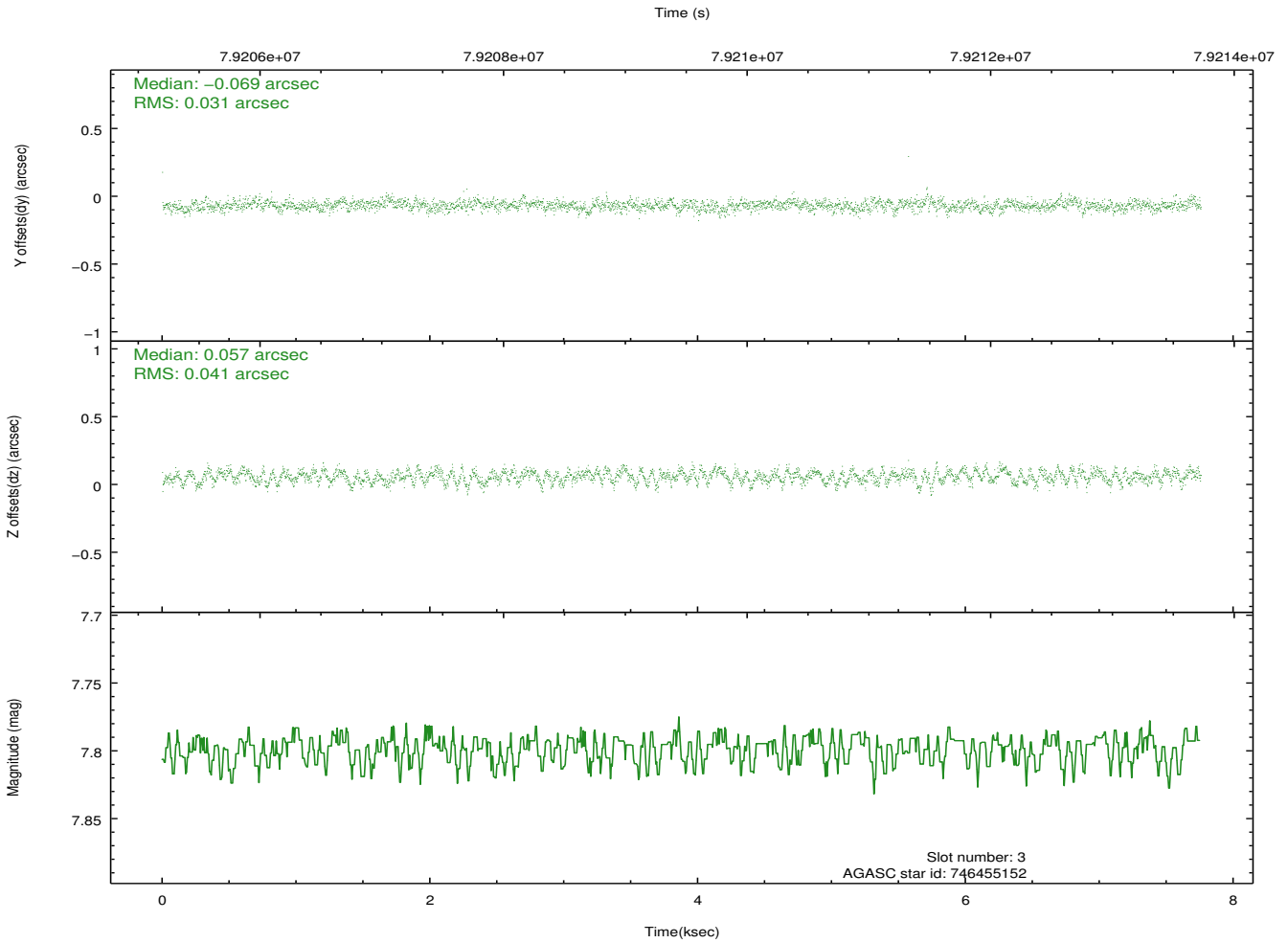
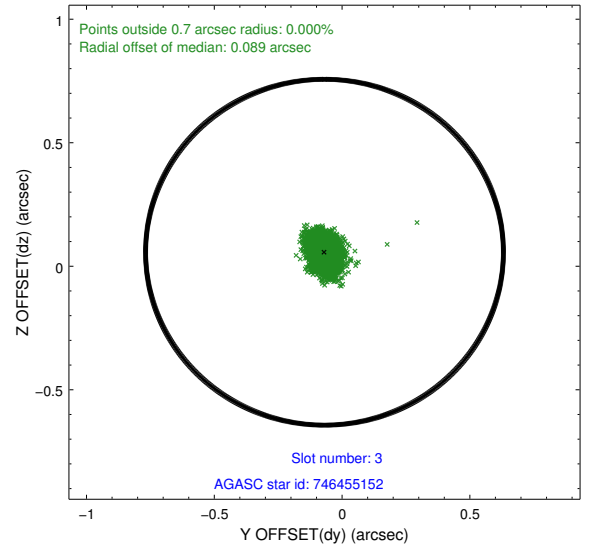
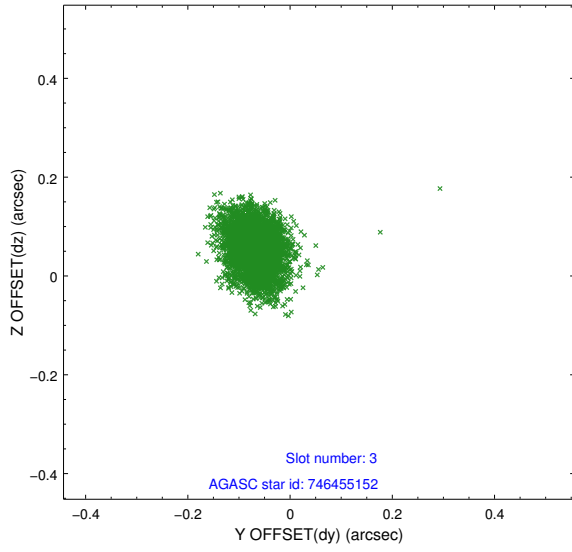


Slot Statistics

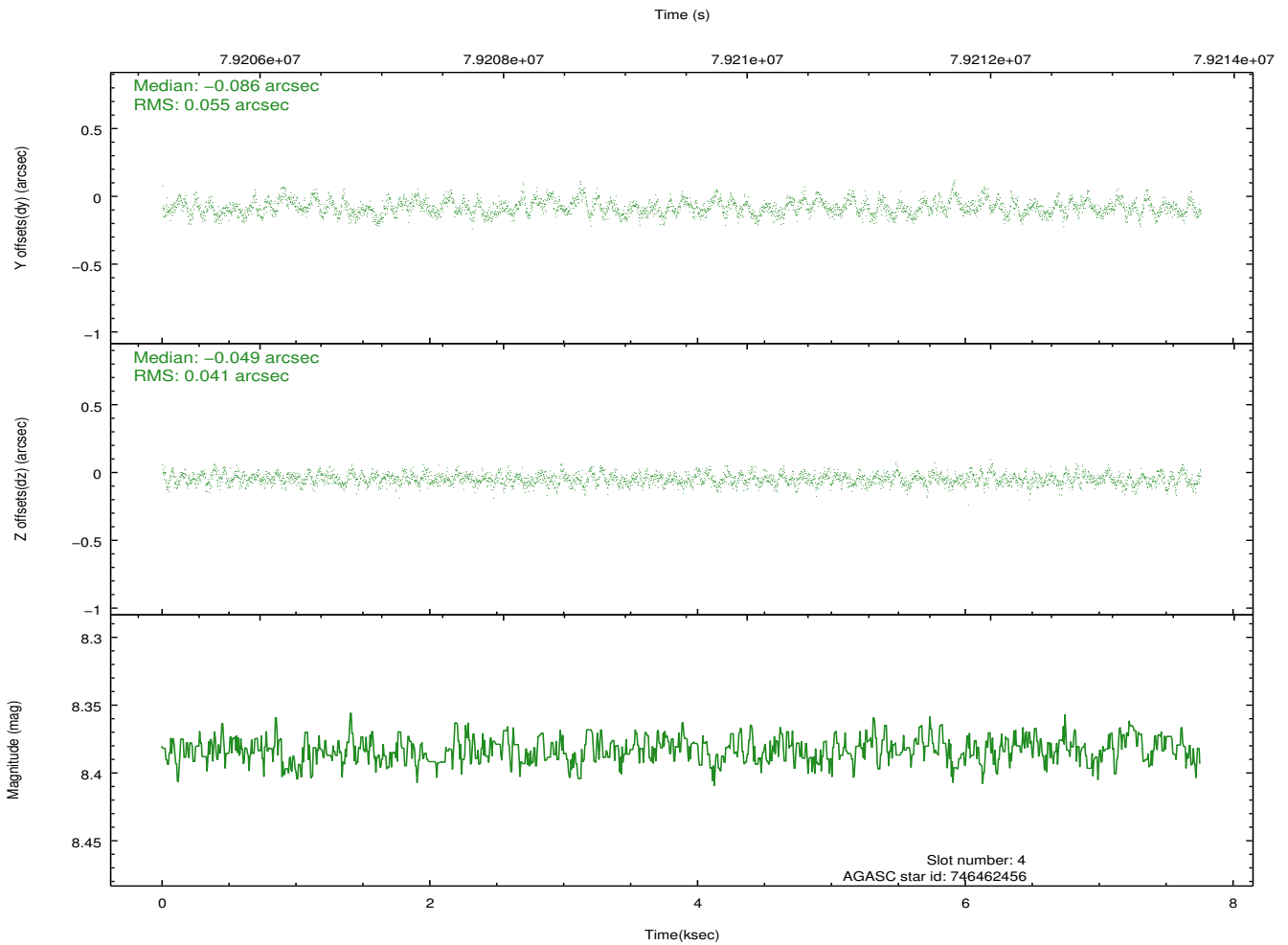
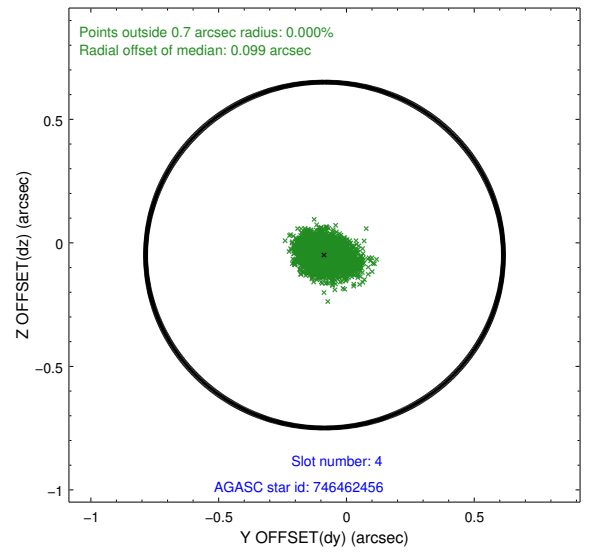
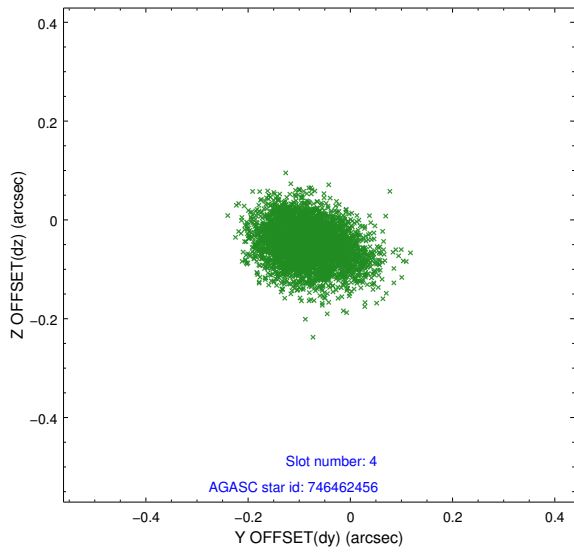
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.17	1891	-0.059	-0.077	0.012	0.018	0.000000	0.000000	-753.74	-737.40
1	FID	ACIS-I-4	7.20	1893	-0.017	0.060	0.009	0.016	0.000000	0.000000	2160.02	1168.69
2	FID	ACIS-I-5	7.24	1893	-0.024	0.085	0.009	0.015	0.000000	0.000000	-1806.87	1167.91
3	GUIDE	746455152	7.80	3785	-0.069	0.057	0.054	0.089	278.447893	-9.976732	-1433.27	-1733.61
4	GUIDE	746462456	8.38	3785	-0.086	-0.049	0.073	0.118	278.652171	-10.530173	-1148.02	366.35
5	GUIDE	746455112	8.93	3783	0.191	-0.084	0.064	0.108	278.266531	-10.703234	350.06	284.42
6	GUIDE	746460328	9.81	3785	0.013	0.019	0.089	0.146	278.603974	-9.898096	-2054.72	-1726.93
7	GUIDE	746995400	9.51	3783	-0.053	0.058	0.087	0.142	278.078957	-11.289885	1916.51	1847.60

2.4 Star Slots

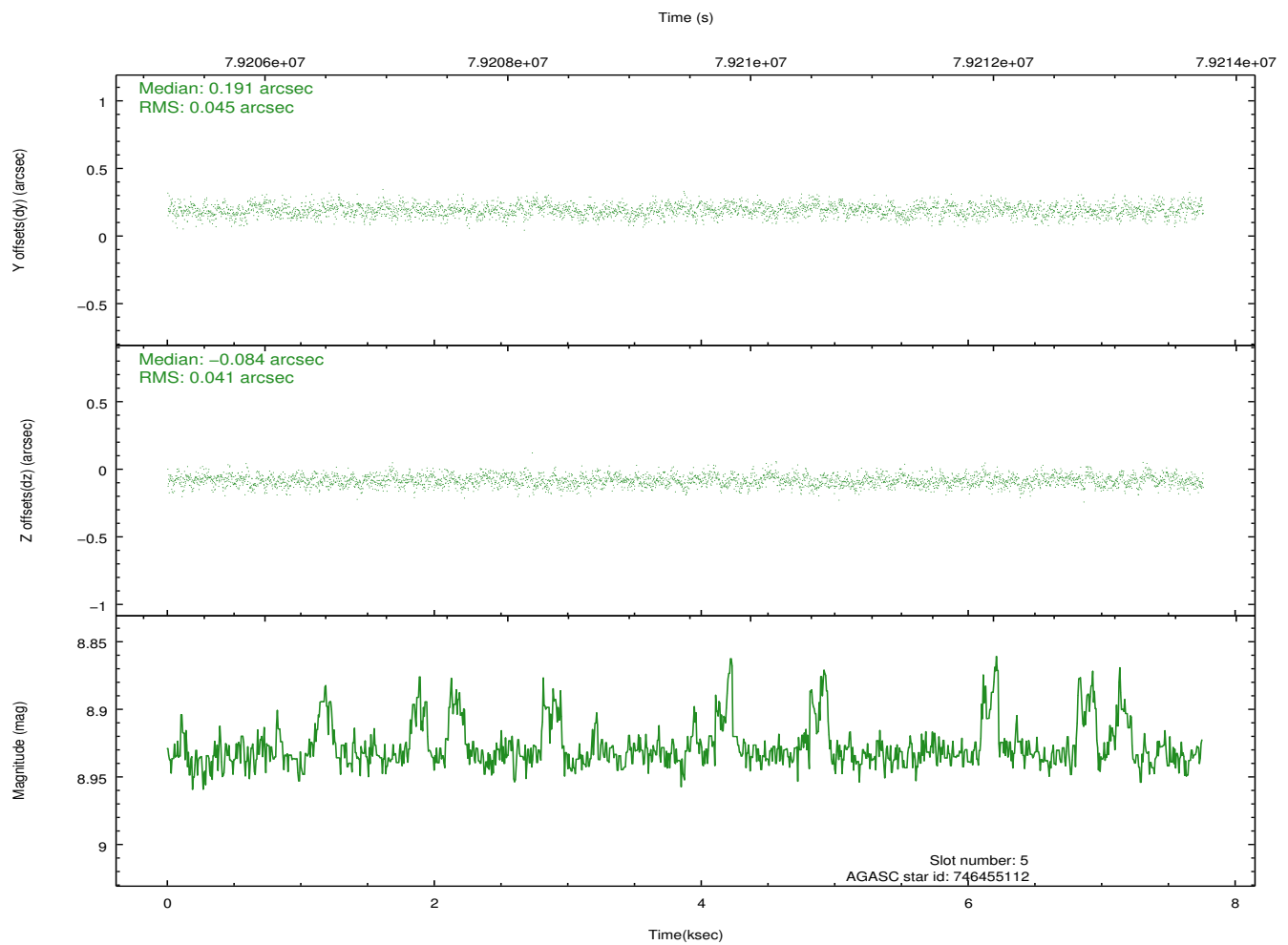
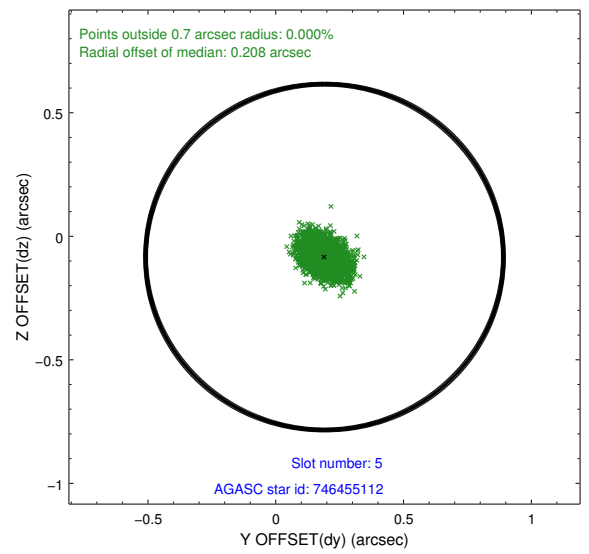
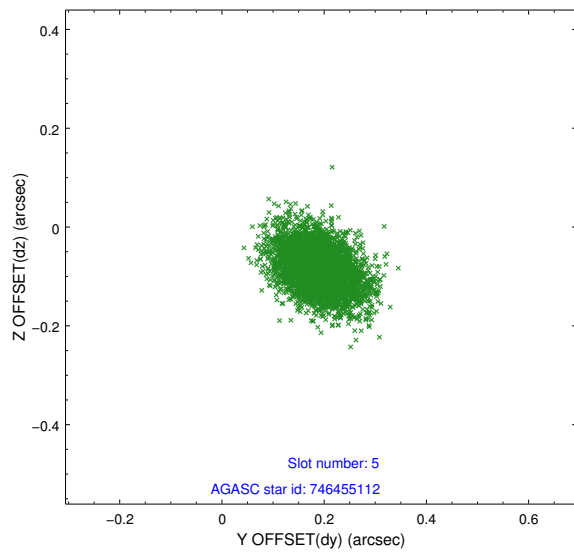
2.4.1 Slot 3



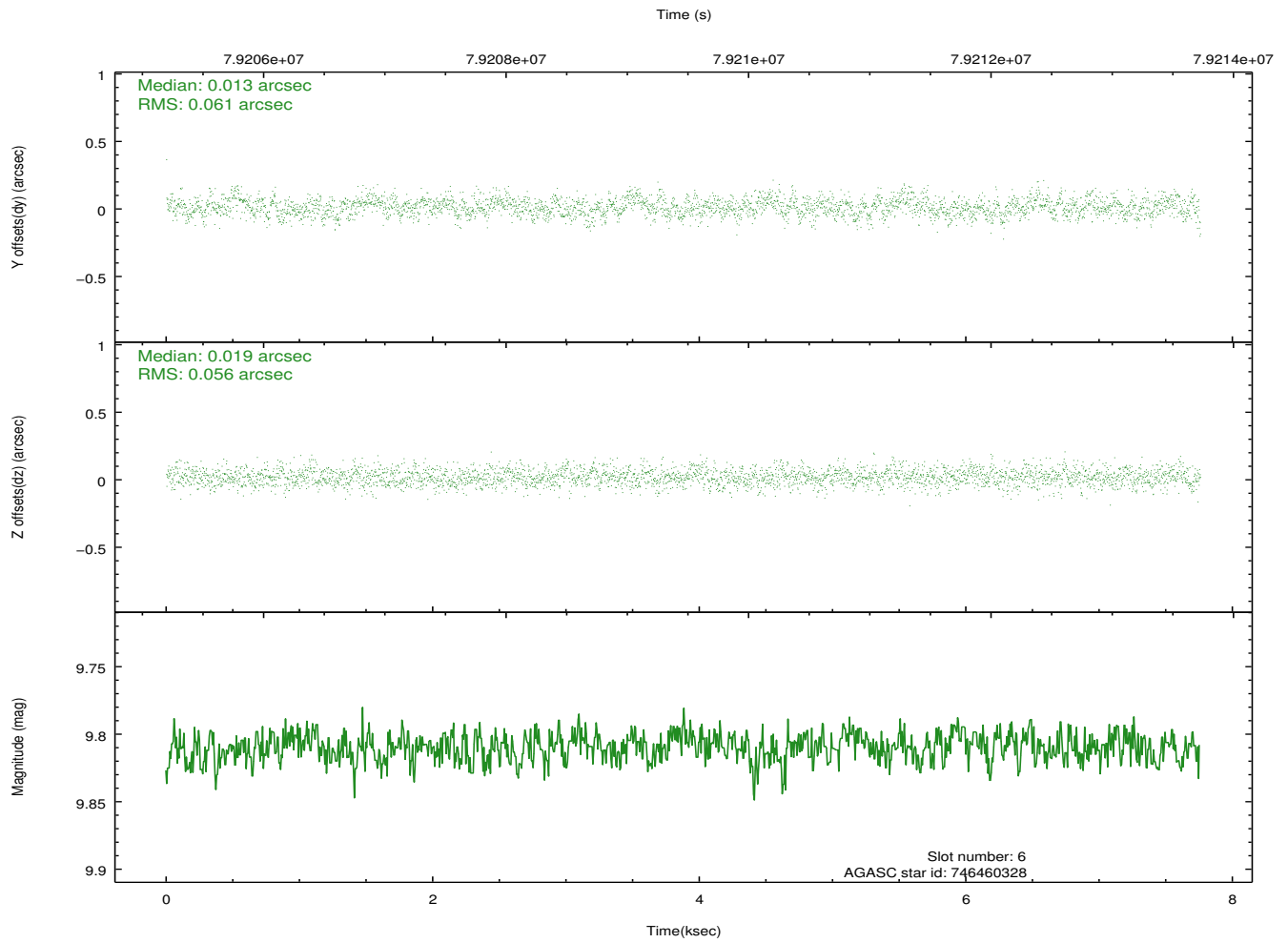
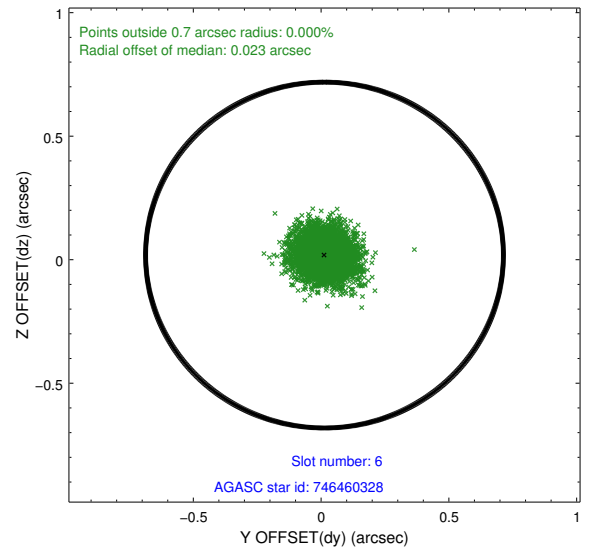
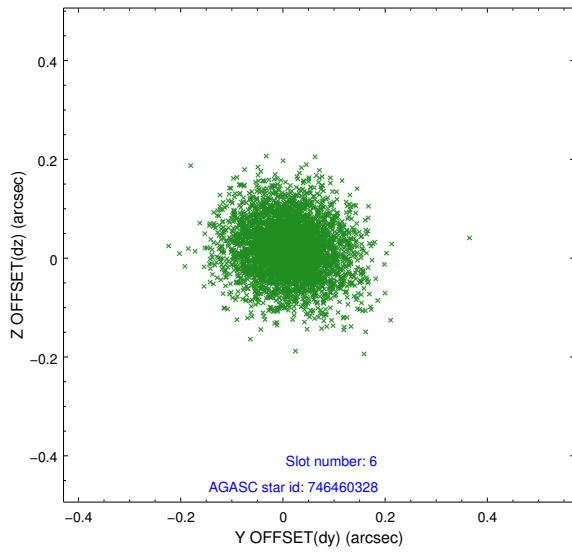
2.4.2 Slot 4



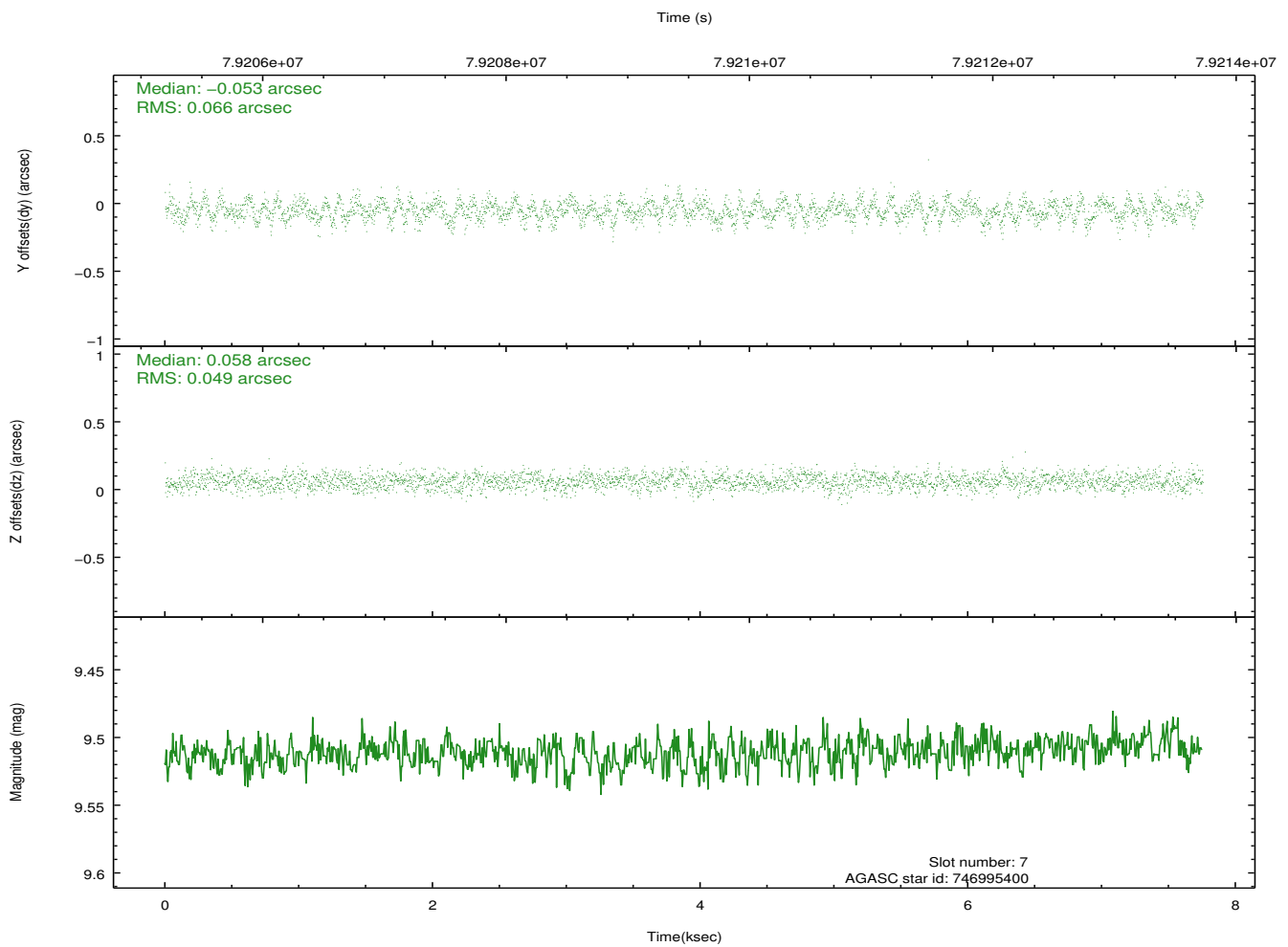
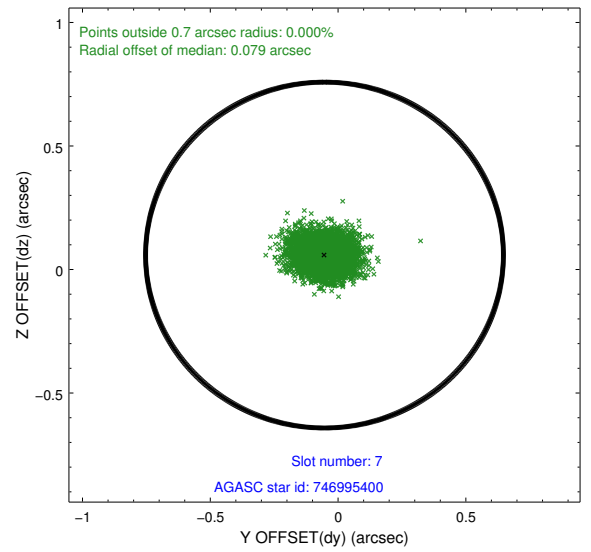
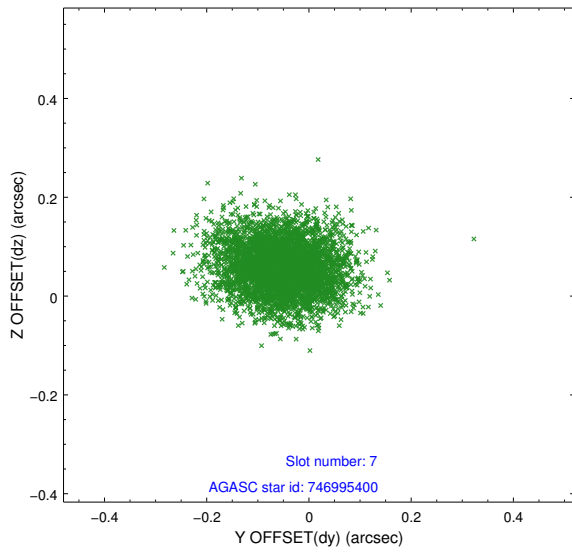
2.4.3 Slot 5



2.4.4 Slot 6

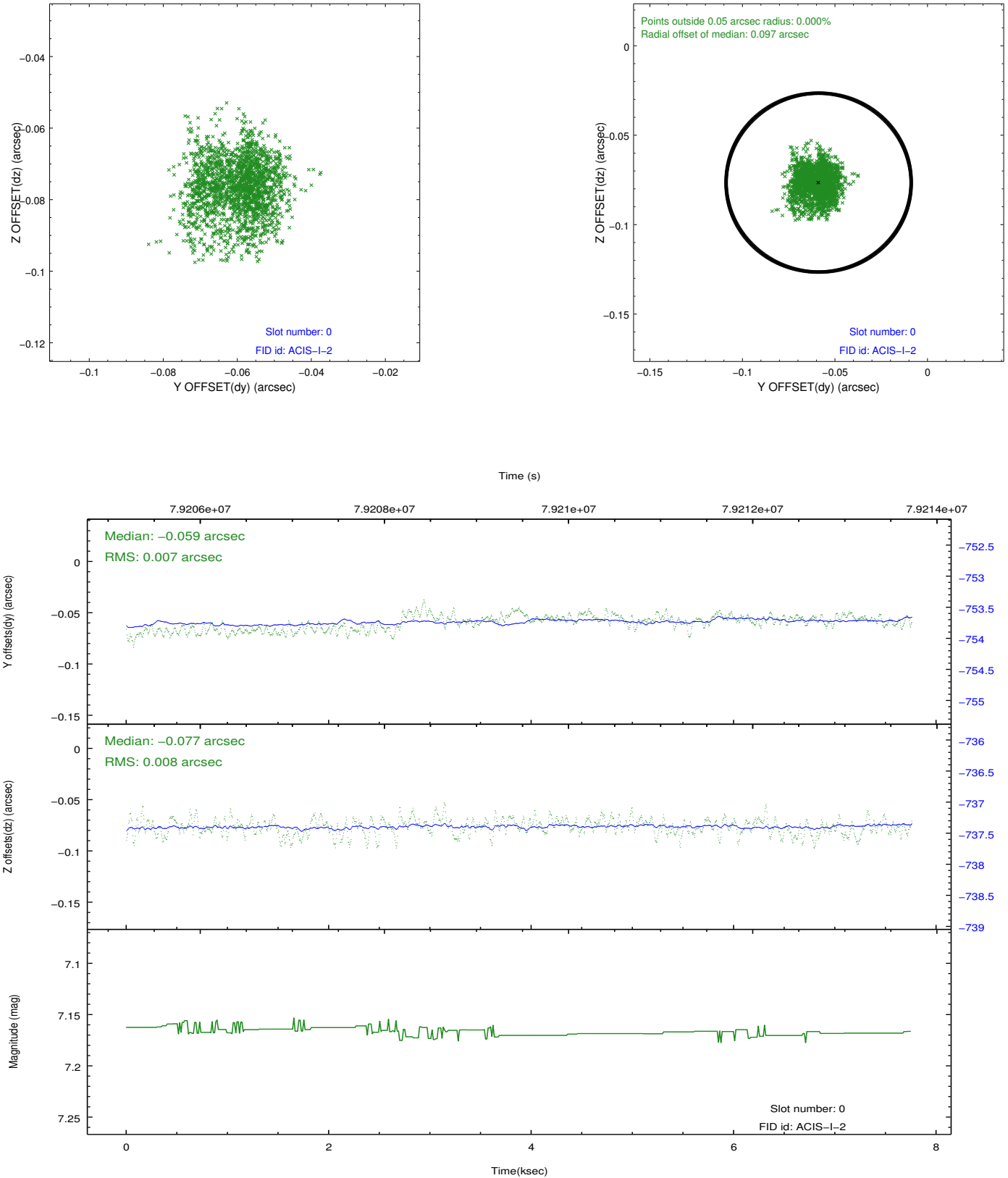


2.4.5 Slot 7

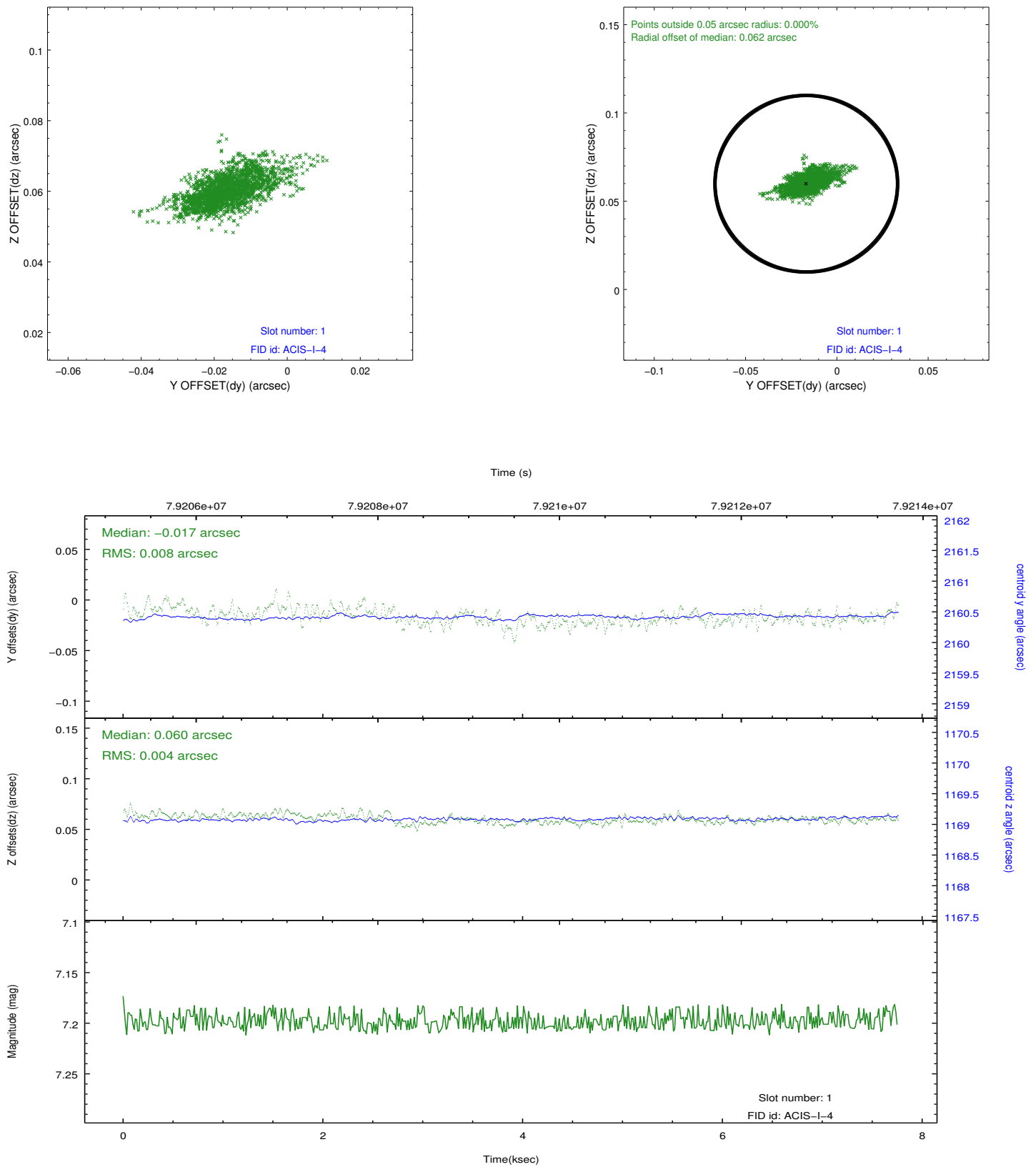


2.5 FID Slots

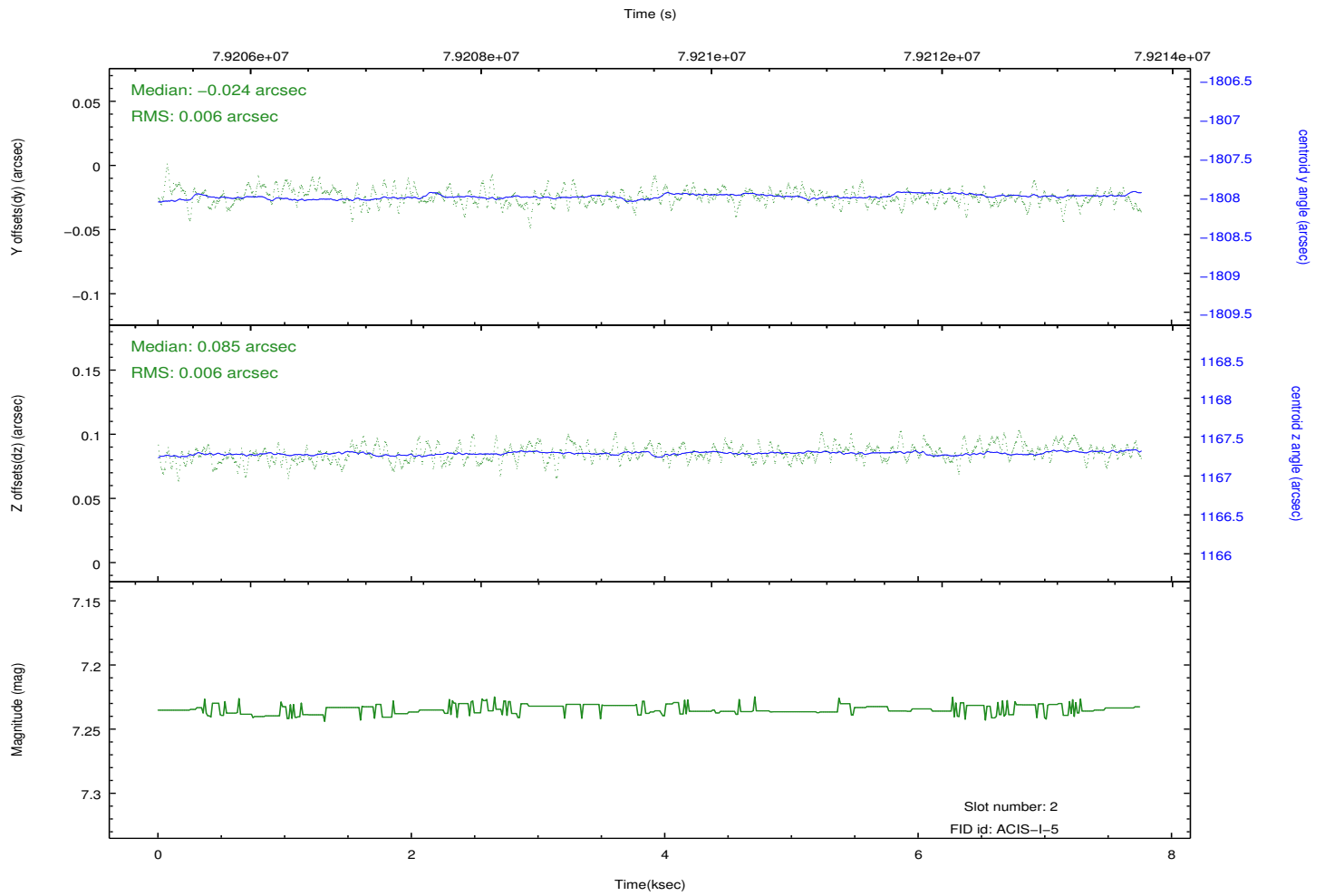
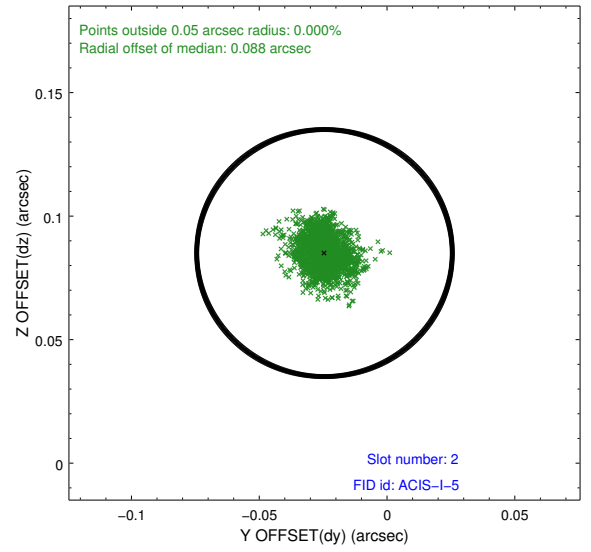
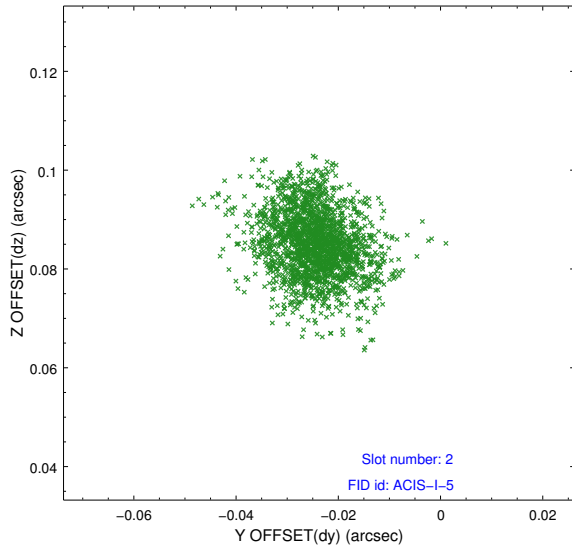
2.5.1 Slot 0



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)	2012.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.315

A.2 Comments

The focal-plane temperature was set to a temperature of about -109.2 C during this observation and others in the interval from September 17, 1999 to January 29, 2000. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. The CTI adjustment is calibrated for data taken from January 30, 2000 to the present, when the focal-plane temperature is set to -119.7 C. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs. The ACIS spectral response calibration is less accurate at temperatures of about -109.2 C than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (i.e. fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response (e.g. those interested in imaging or timing analyses) should not notice an effect.