

V&V Reference Report

L2 ASCDS Version : 10

Observation 15502 - L2 Version 2
Chandra X-Ray Center

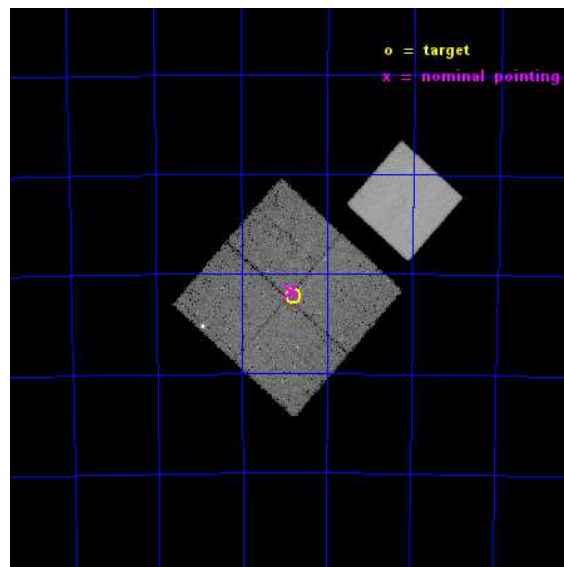
L2 Processing Date : Dec 6 2014

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1 Front

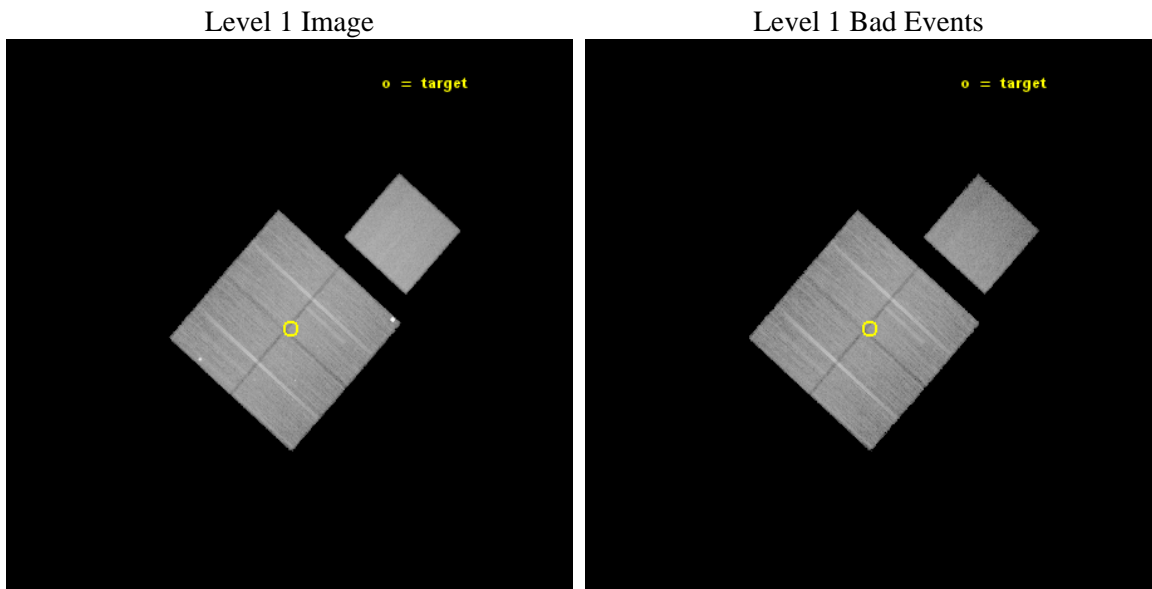
seq_num	401502	Sequence number
obs_id	15502	Observation id
title	The Small Magellanic Cloud - A Case Study of X-ray Populations at Low Metallicity	Proposal title
observer	Dr Andreas Zezas	Principal investigator
object	Deep Field 06	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.194167	Observer's specified target RA [deg]
dec_targ	-72.703278	Observer's specified target Dec [deg]
ra_nom	13.208166950271	Nominal RA [deg]
dec_nom	-72.69637292681	Nominal Dec [deg]
roll_nom	41.661509742124	Nominal Roll [deg]
revision	2	Processing version of data
ontime	46397.700356841	Sum of GTIs [s]
livetime	45791.480244189	Livetime [s]
ontime0	46394.559346437	Sum of GTIs [s]
ontime1	46394.559366345	Sum of GTIs [s]
ontime2	46394.559346437	Sum of GTIs [s]
ontime3	46397.700356841	Sum of GTIs [s]
ontime7	46397.700356841	Sum of GTIs [s]
l2events	193340	Number of level 2 events



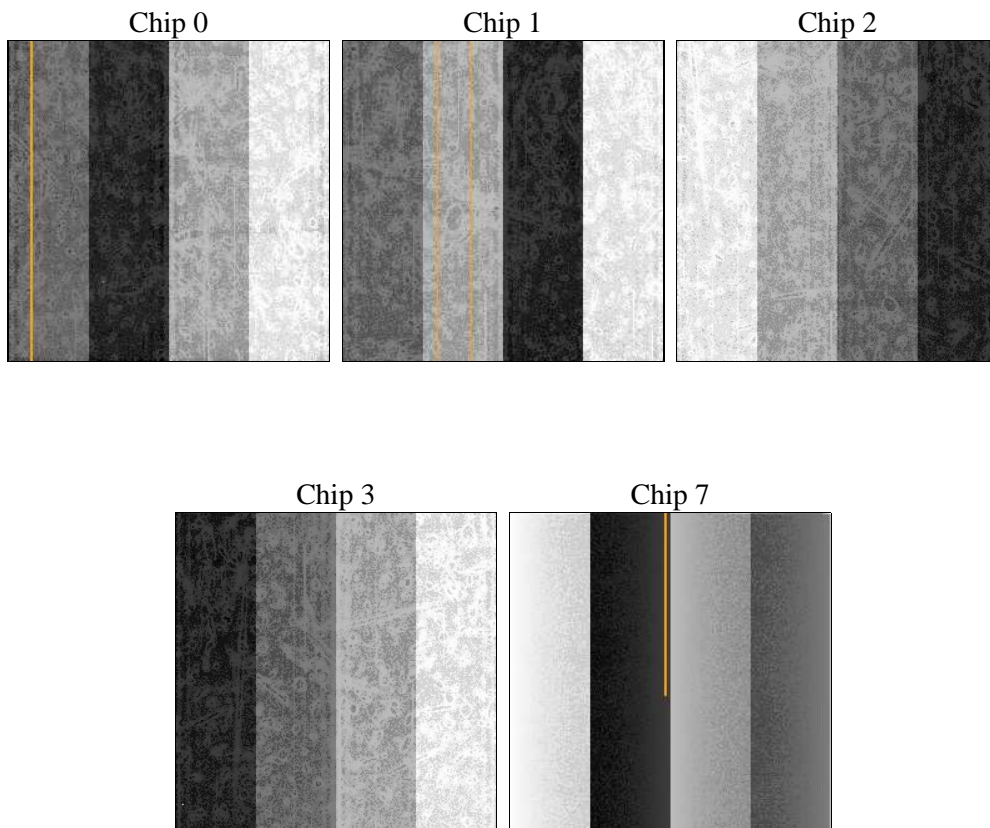
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46327.381000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	46397.700356841	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	46394.559346437	Sum of GTIs [s]
date	2014-12-06T08:34:10	Date and time of file creation	ontime1	46394.559366345	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	46394.559346437	Sum of GTIs [s]
			ontime3	46397.700356841	Sum of GTIs [s]
			ontime7	46397.700356841	Sum of GTIs [s]
			l1events	1022196	Number of level 1 events

2.1.4 Events

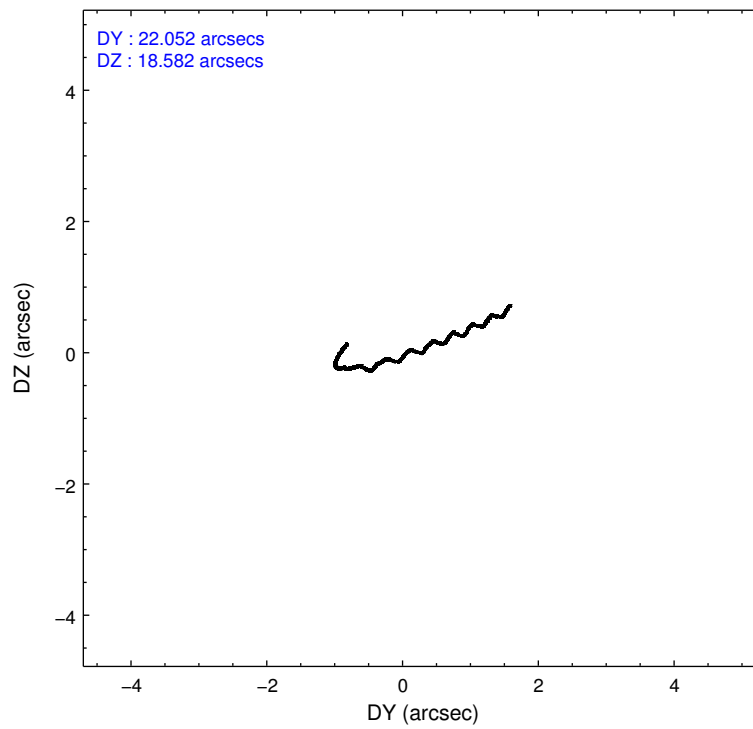
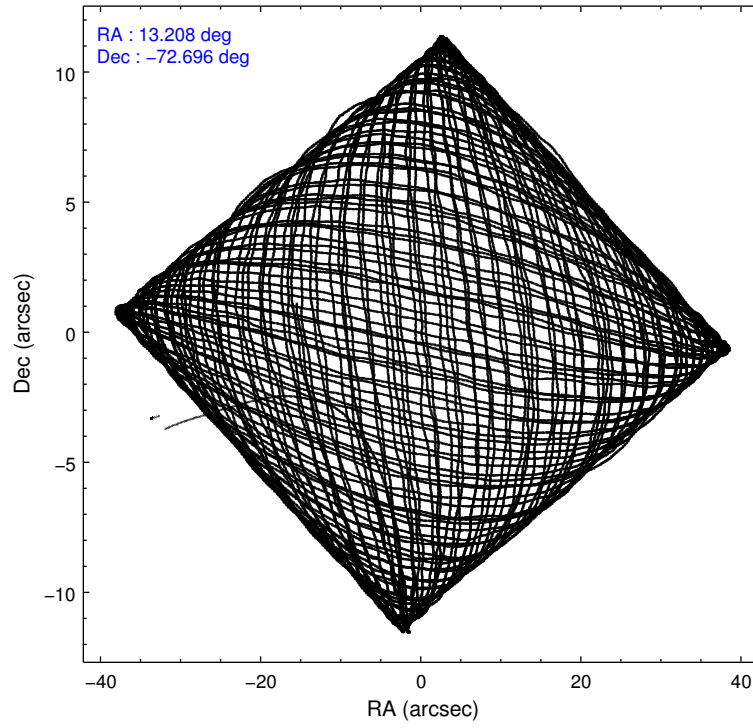
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	187674	181943	203037	206689	242853
rejected events	161087	156209	179036	173287	129109
rejected %	85%	85%	88%	83%	53%

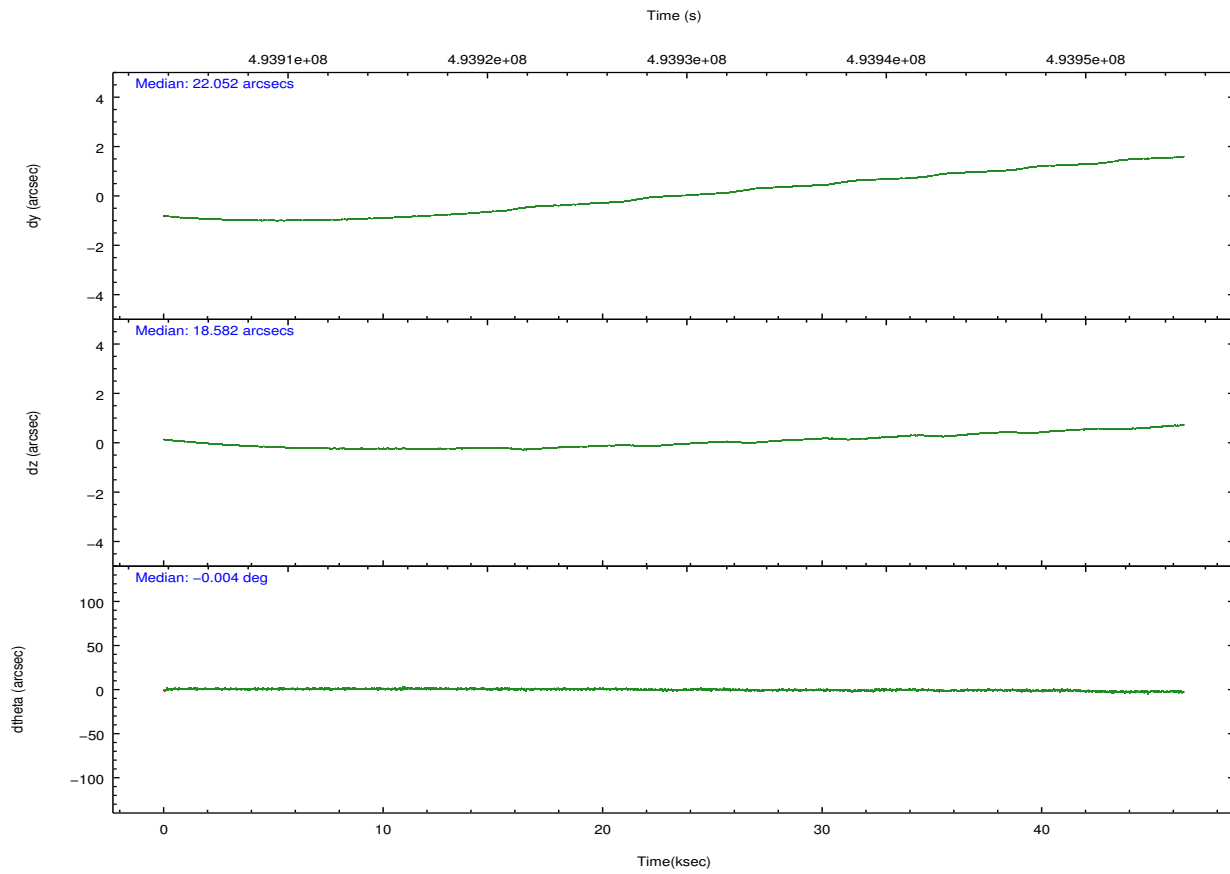
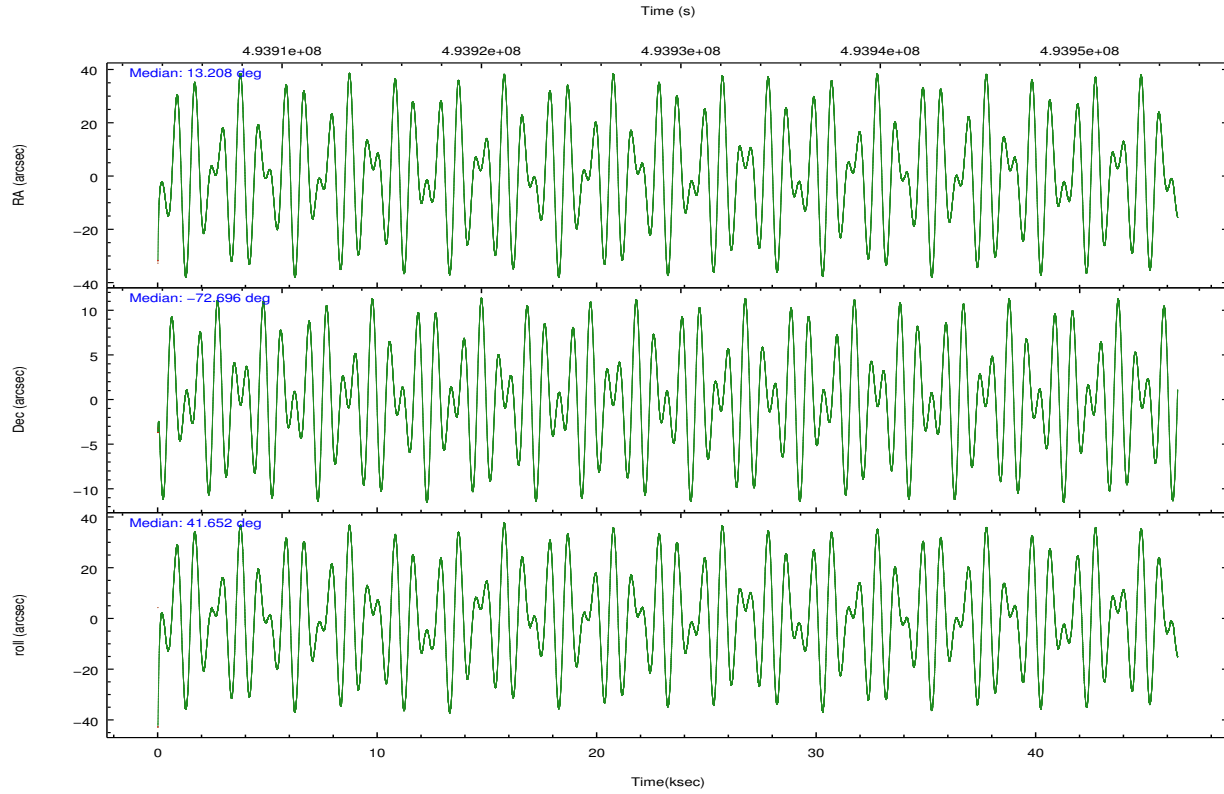
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	10667	9139	9409	18880	11315
	5%	5%	4%	9%	4%
grade 1 events	125	86	135	156	368
	0%	0%	0%	0%	0%
grade 2 events	6178	5966	5714	5238	24607
	3%	3%	2%	2%	10%
grade 3 events	2601	2721	2283	2450	9958
	1%	1%	1%	1%	4%
grade 4 events	2435	2641	2306	2446	10125
	1%	1%	1%	1%	4%
grade 5 events	8034	8818	7508	9595	25724
	4%	4%	3%	4%	10%
grade 6 events	4706	5272	4290	4389	57743
	2%	2%	2%	2%	23%
grade 7 events	152928	147300	171392	163535	103013
	81%	80%	84%	79%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	13.179406	13.20816695027087	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.722498	-72.69637292680999	Alternating exposures requested	N	N
[deg] Pointing Roll	41.425366	41.6615097421241	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	493906256.184000	493904746.55343			
Observation start date	2013-08-26T12:09:49	2013-08-26T11:45:46			
[s] Observation end time (MET)	493952583.184000	493952821.61856			
Observation end date	2013-08-27T01:01:56	2013-08-27T01:07:01			
Read mode	TIMED	TIMED			

2.3 Aspect





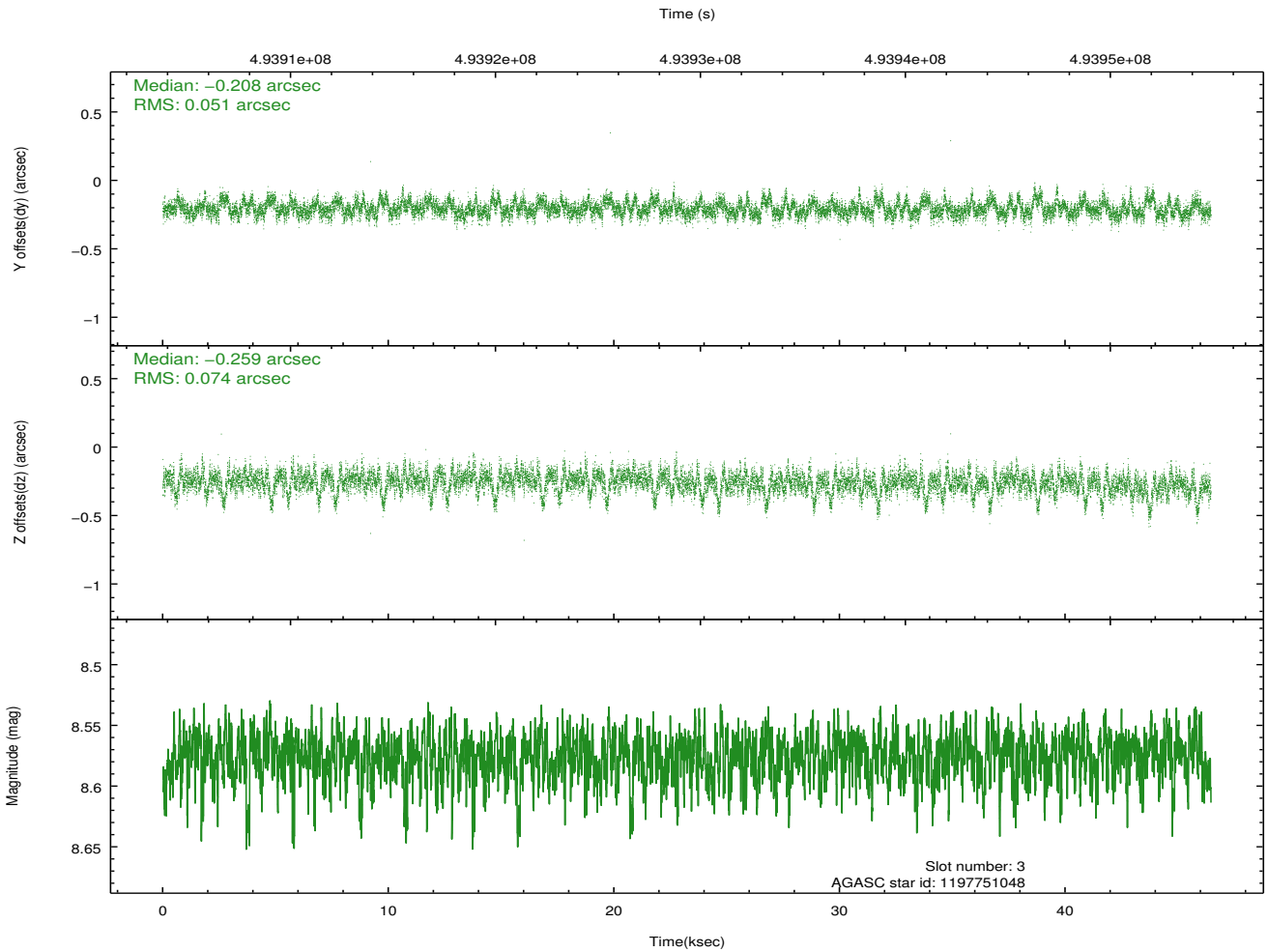
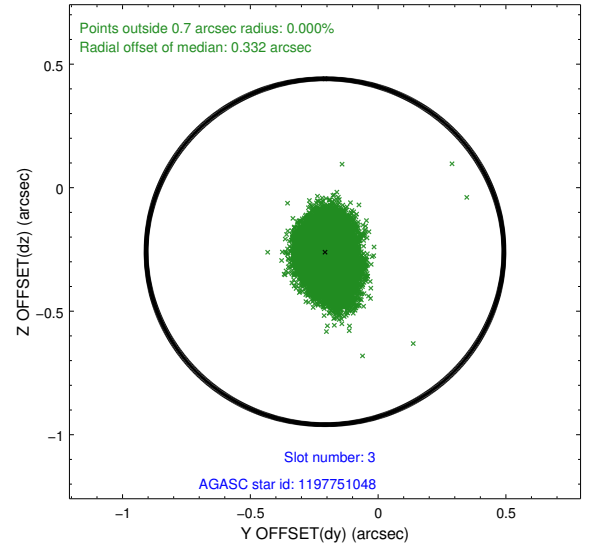
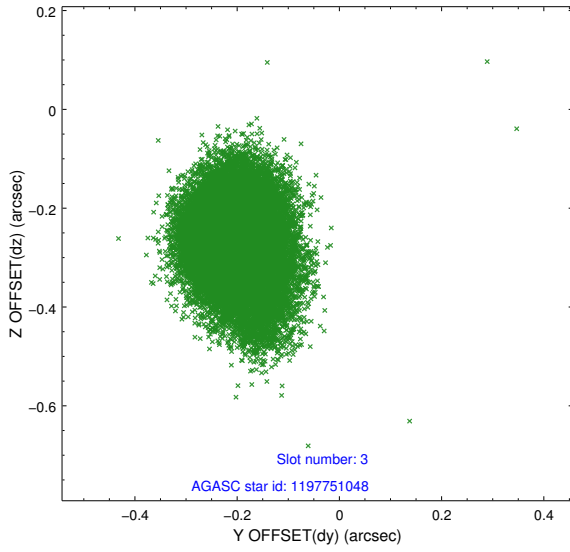
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	11332	-0.044	-0.013	0.014	0.022	0.000000	0.000000	917.14	-842.31
1	FID		ACIS-I-4	7.05	11332	0.300	0.054	0.027	0.040	0.000000	0.000000	2137.44	1057.61
2	FID		ACIS-I-5	7.10	11332	-0.351	0.030	0.022	0.032	0.000000	0.000000	-1831.25	1055.28
3	GUIDE	used	1197751048	8.58	22640	-0.208	-0.259	0.092	0.165	12.451586	-72.130600	803.46	2126.09
4	GUIDE	used	1198189696	7.39	22663	-0.161	0.118	0.069	0.107	15.223750	-72.697522	1676.19	-1408.16
5	GUIDE	used	1198191400	8.39	22655	0.269	-0.130	0.066	0.107	11.617890	-72.595865	-973.17	1437.63
6	GUIDE	used	1198192176	9.50	22607	0.084	0.244	0.153	0.234	14.042526	-73.121350	-276.79	-1677.83
7	GUIDE	used	1198192408	9.40	22560	-0.001	0.037	0.145	0.232	12.860639	-72.678863	-152.52	342.98

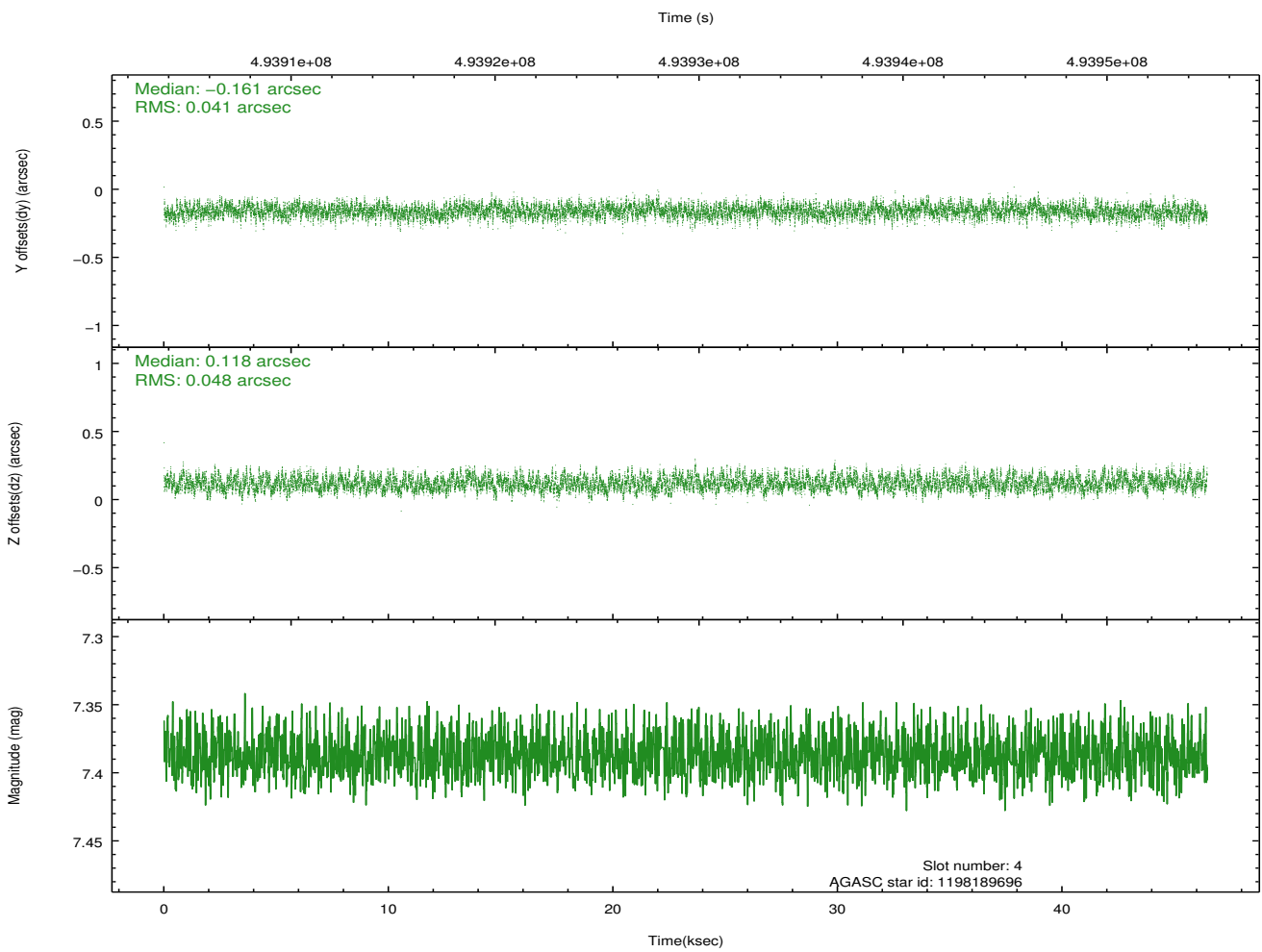
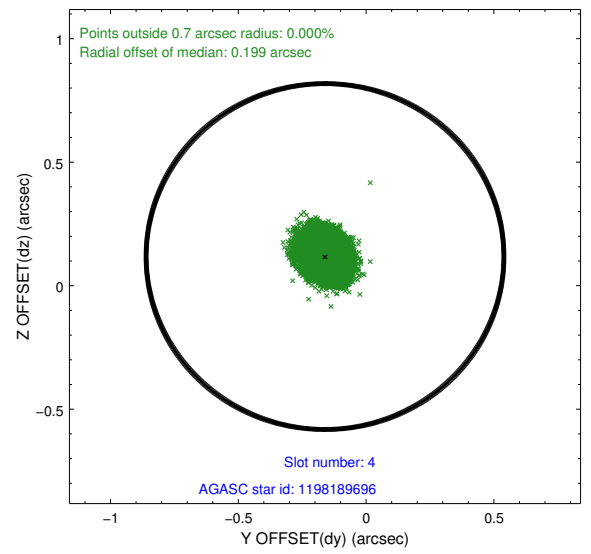
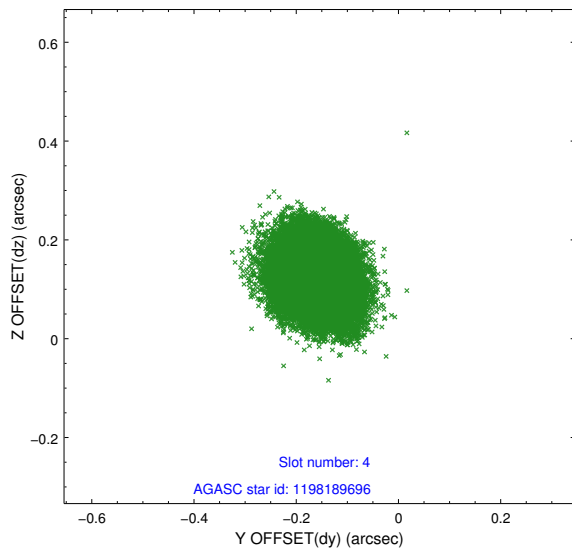
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2.4 Star Slots

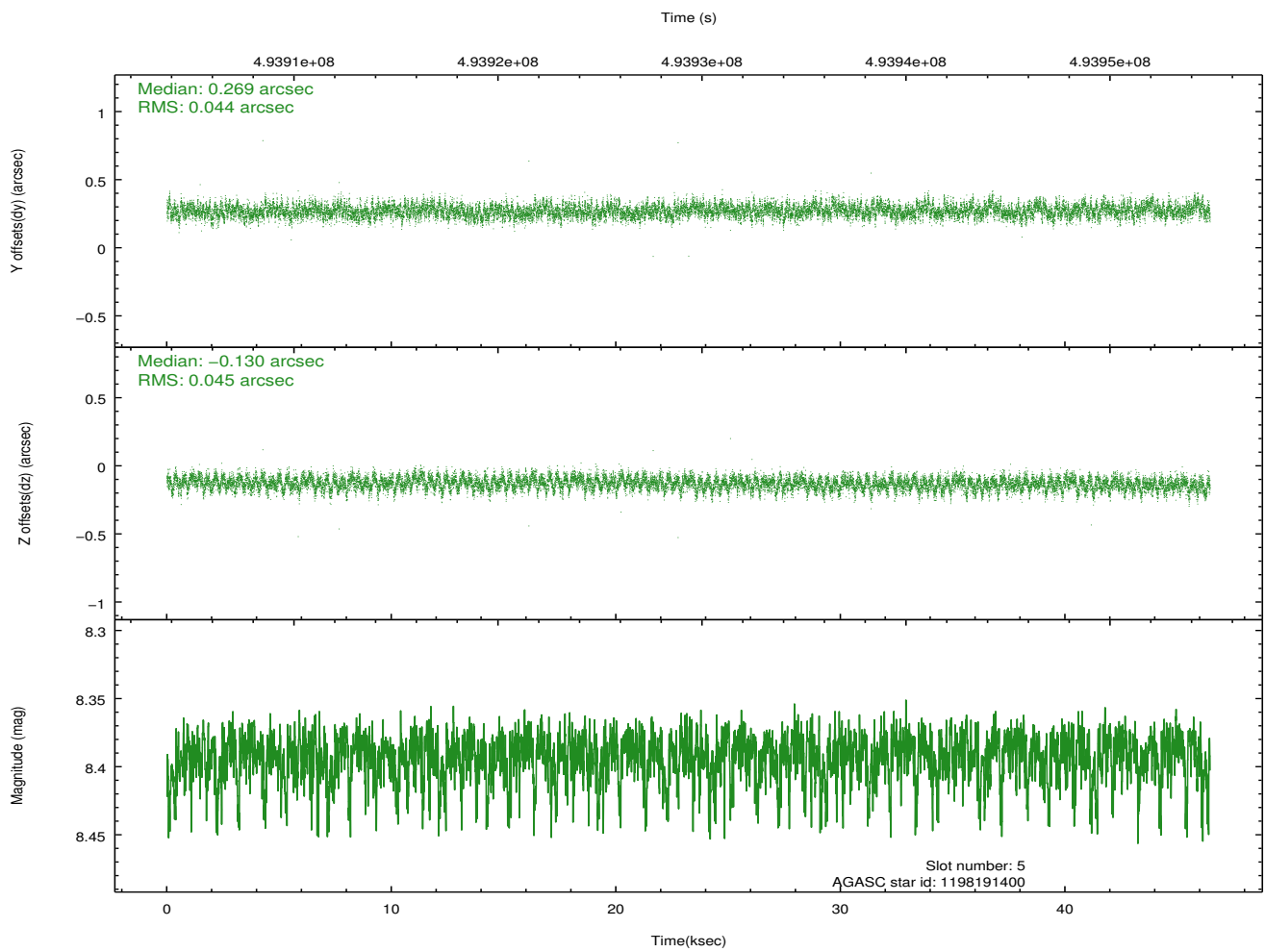
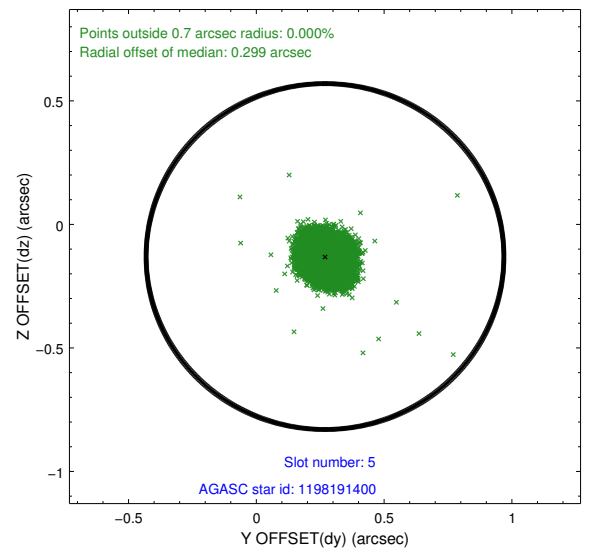
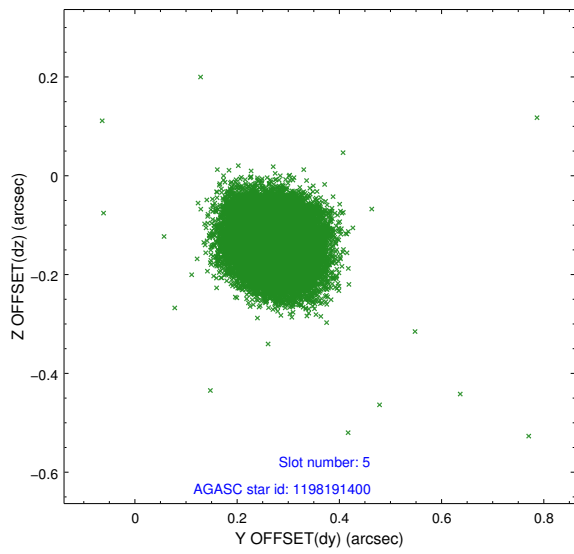
2.4.1 Slot 3



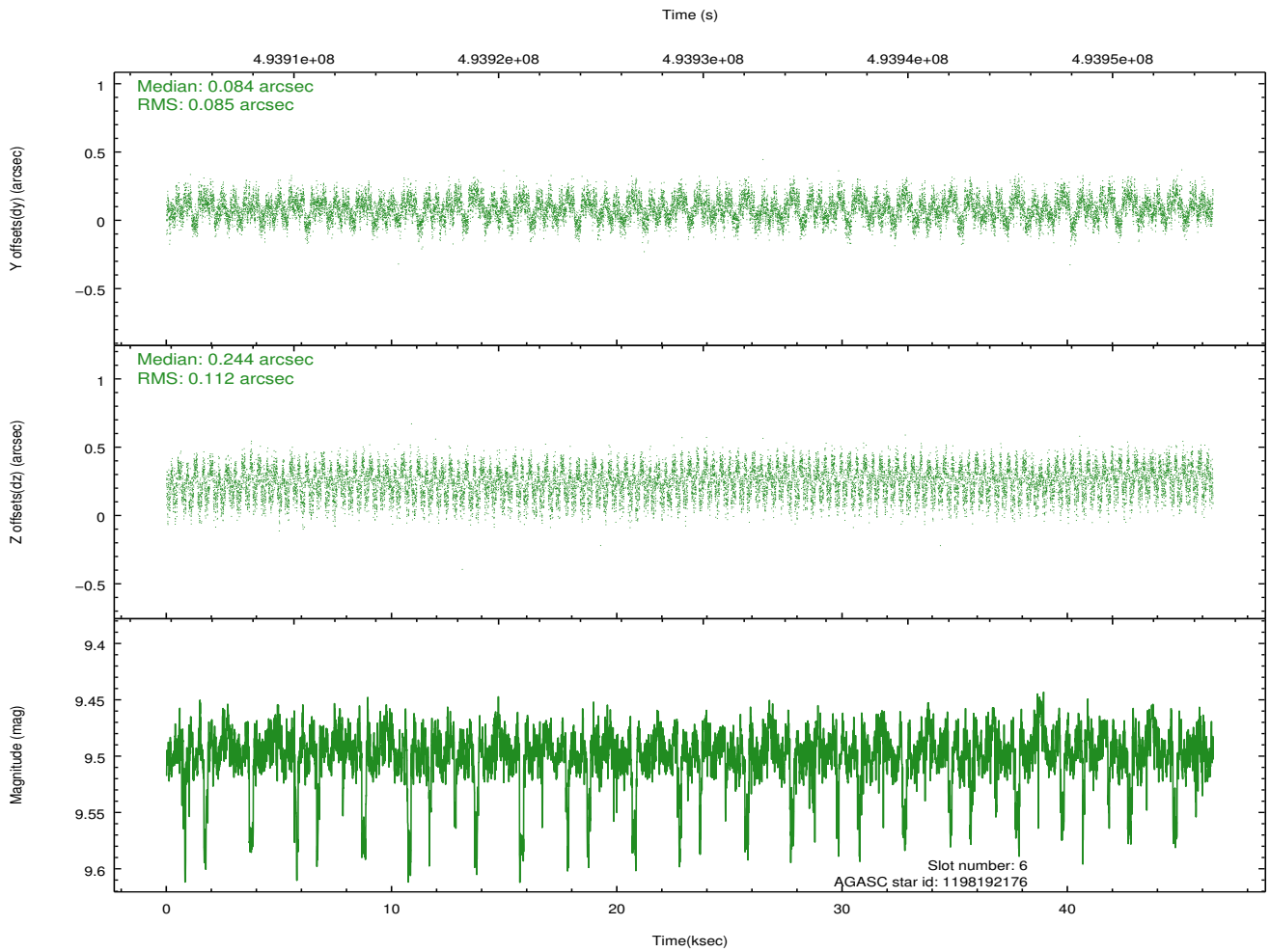
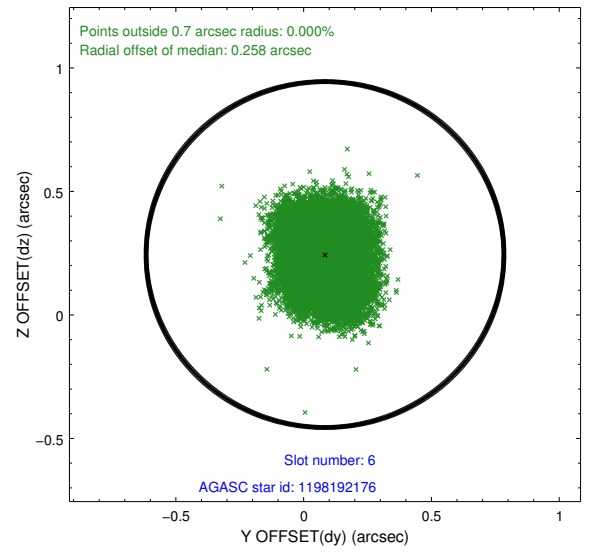
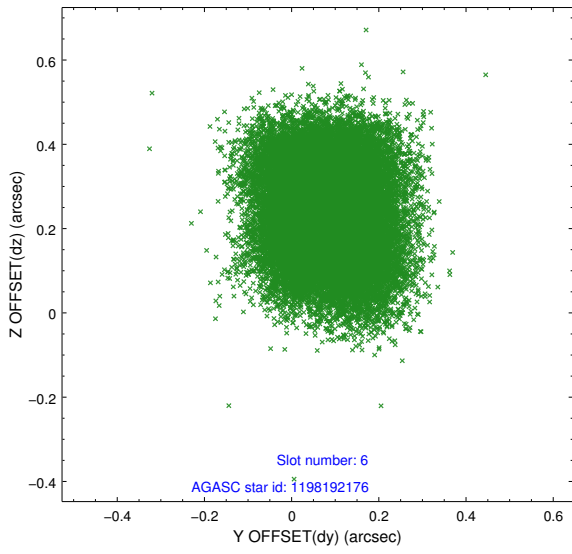
2.4.2 Slot 4



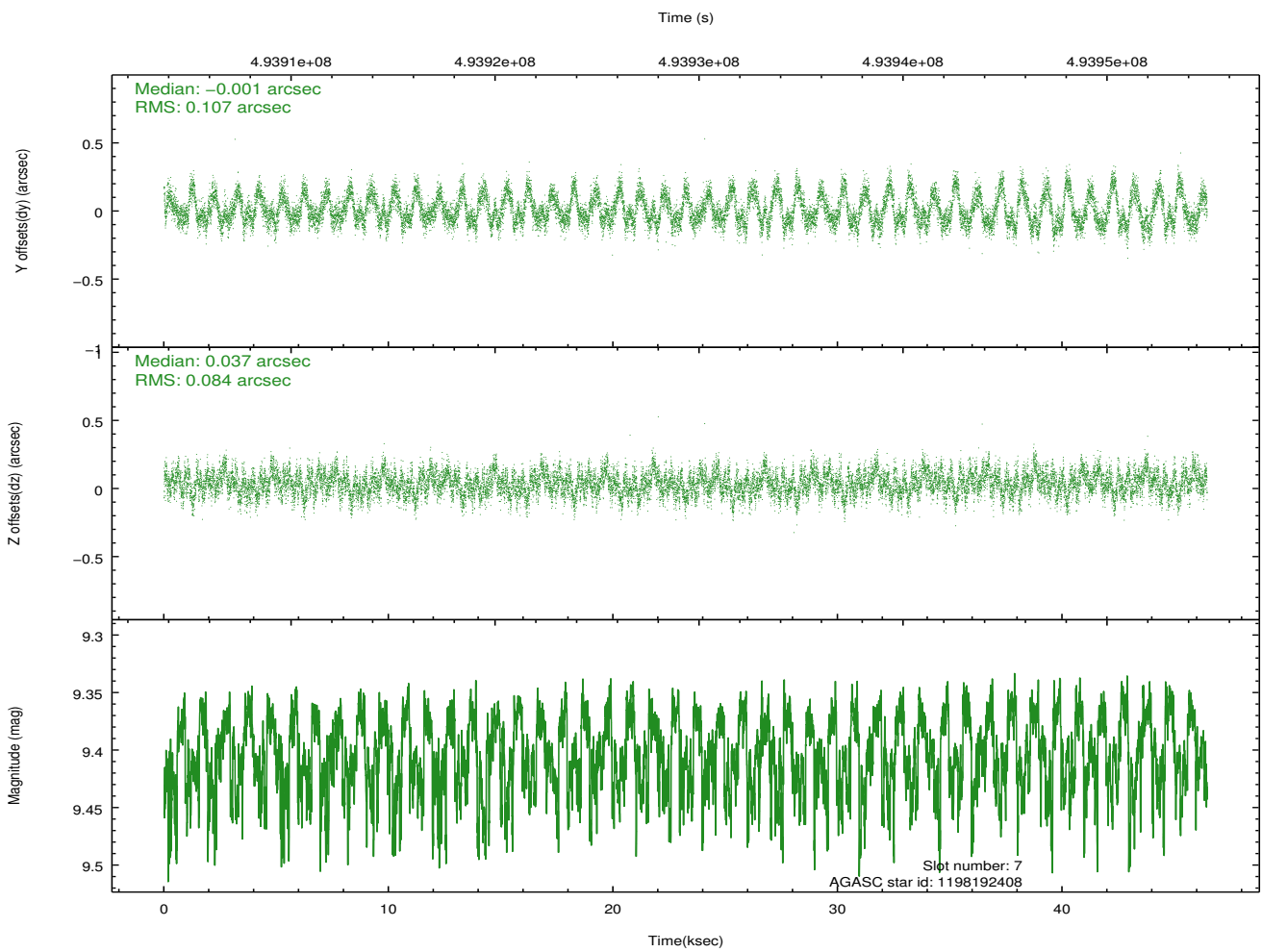
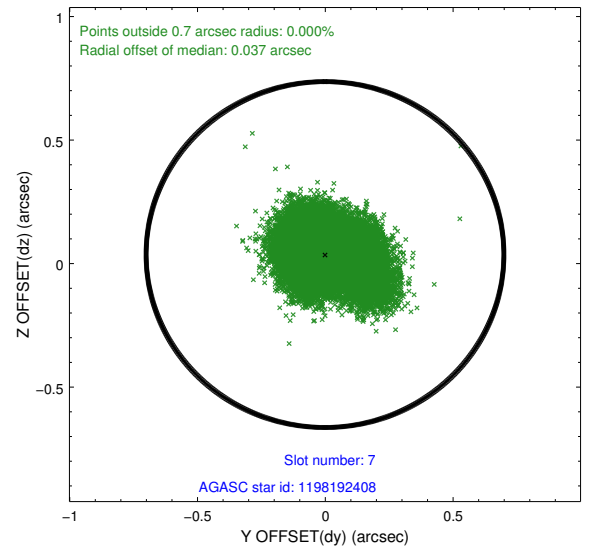
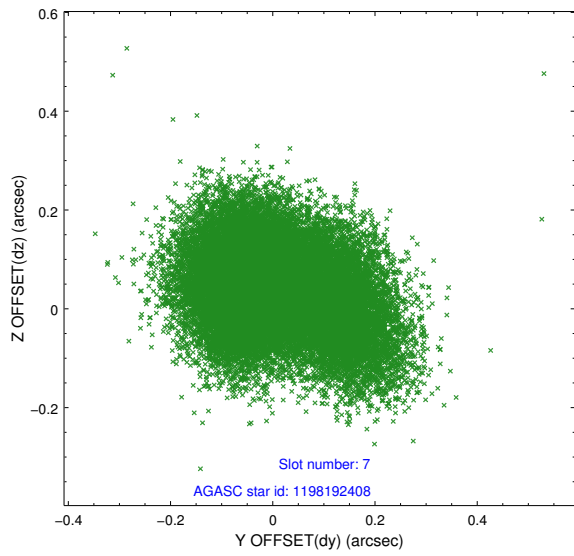
2.4.3 Slot 5



2.4.4 Slot 6

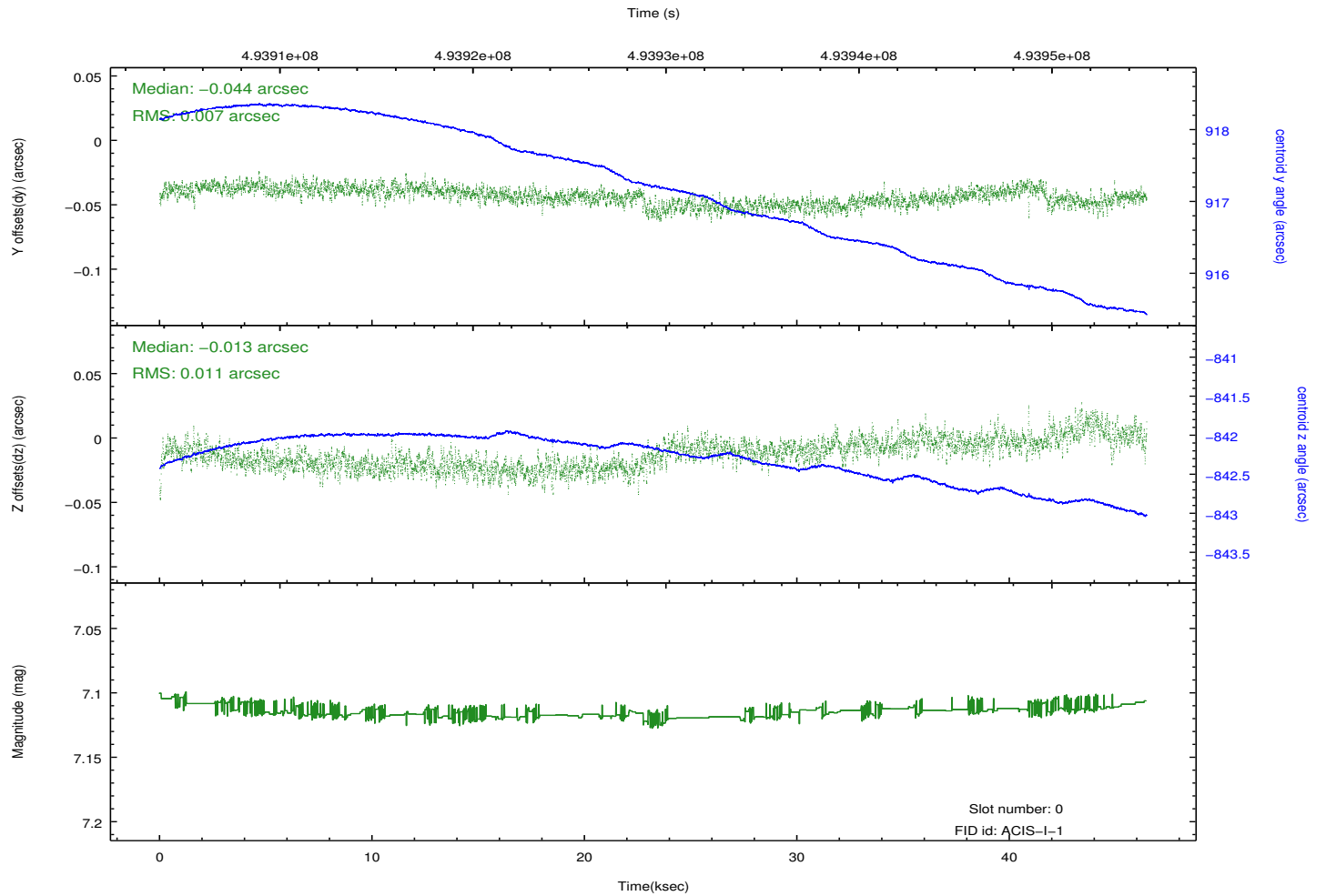
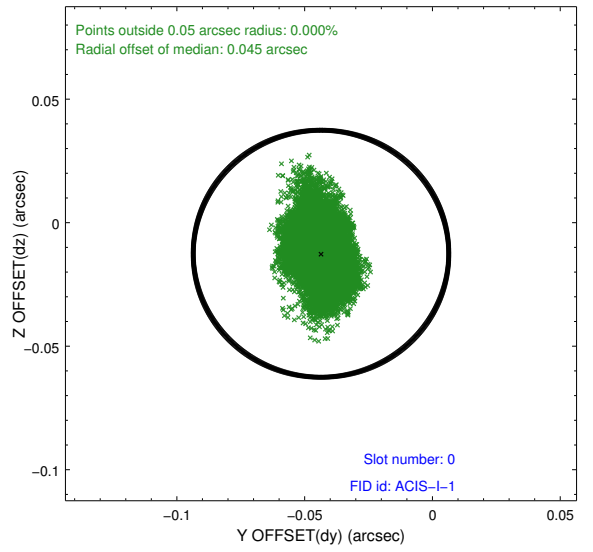
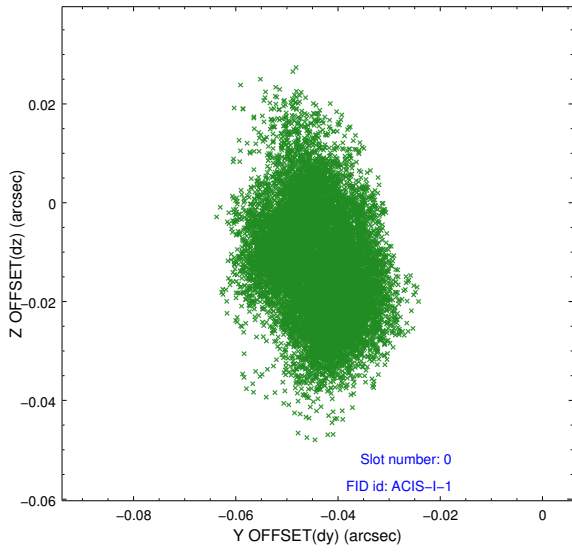


2.4.5 Slot 7

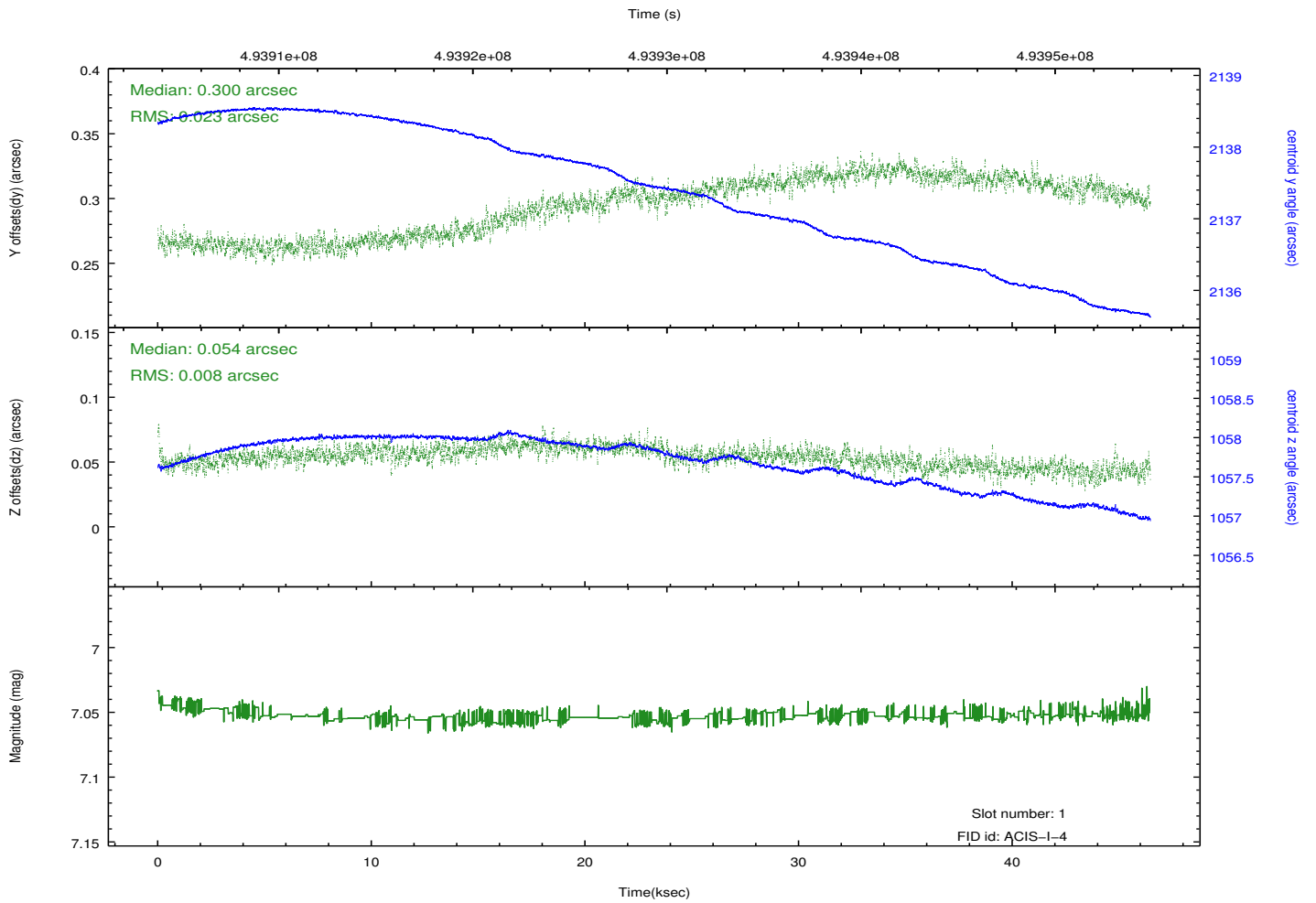
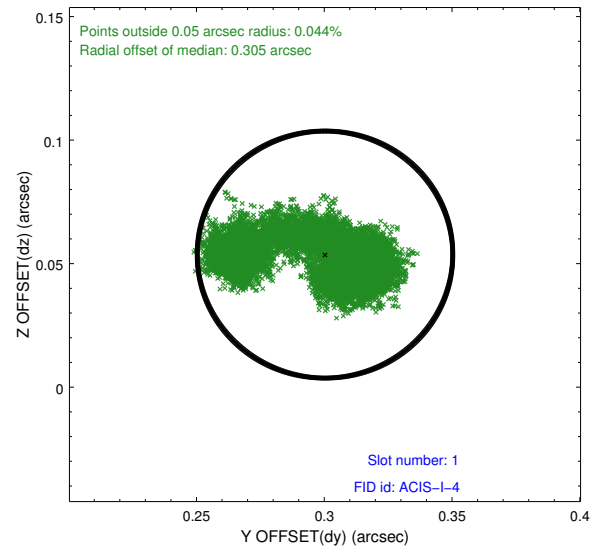
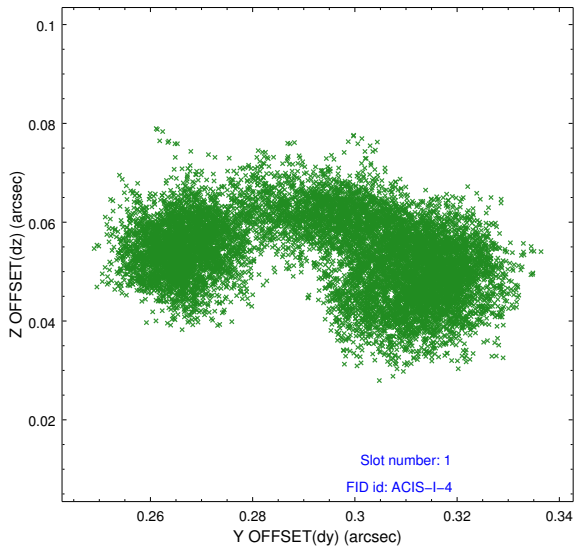


2.5 FID Slots

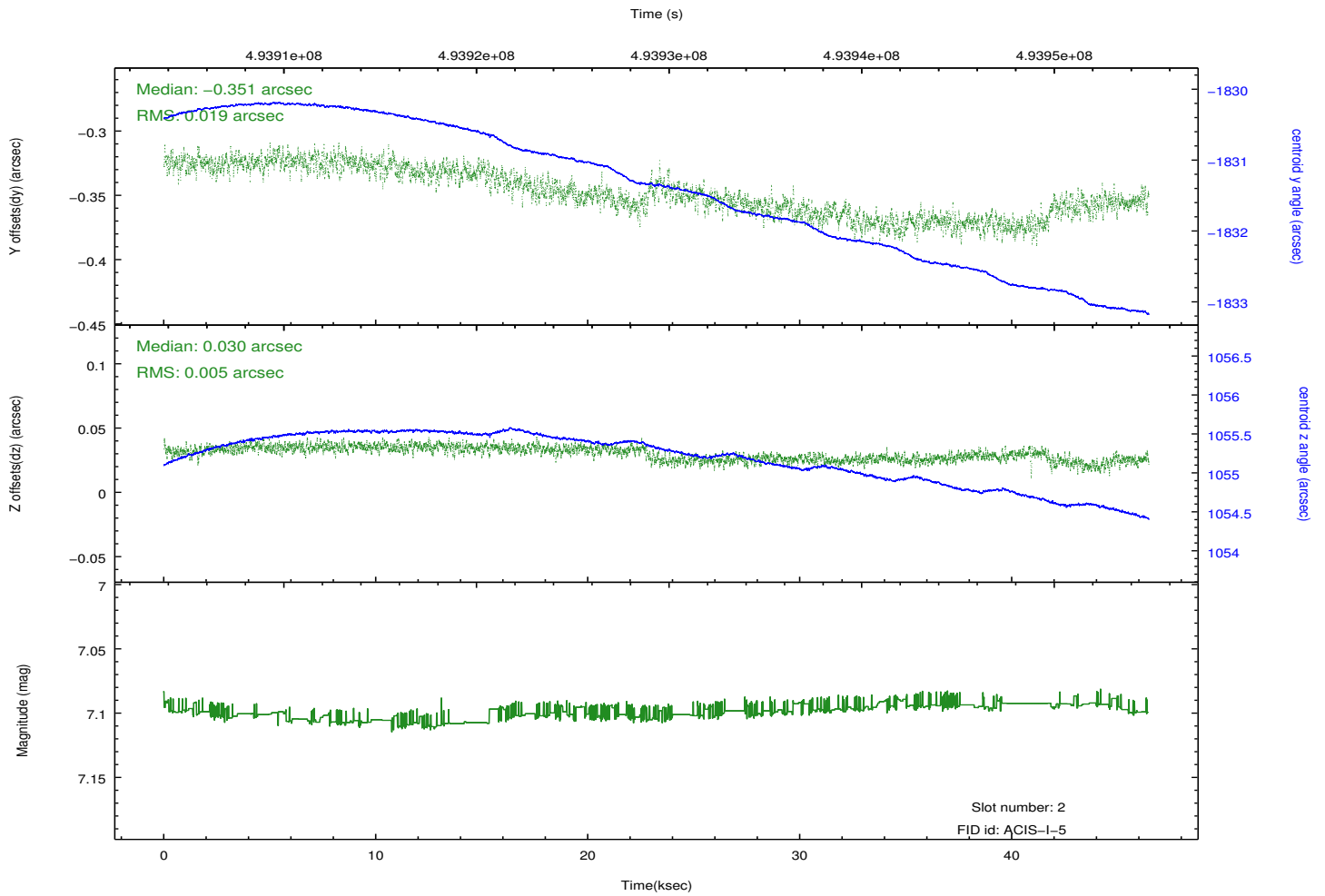
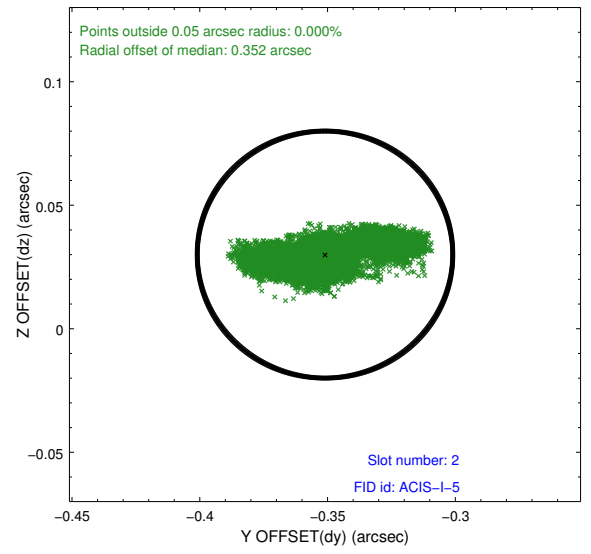
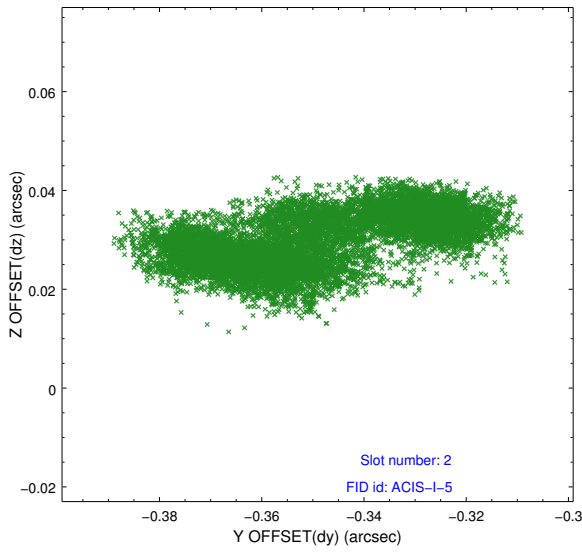
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.397700356841

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.