

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18252 - L2 Version 2
Chandra X-Ray Center

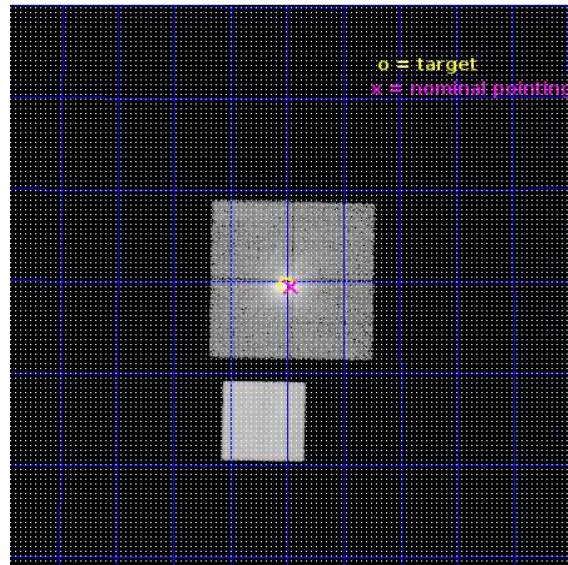
L2 Processing Date : May 3 2017

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1 Front

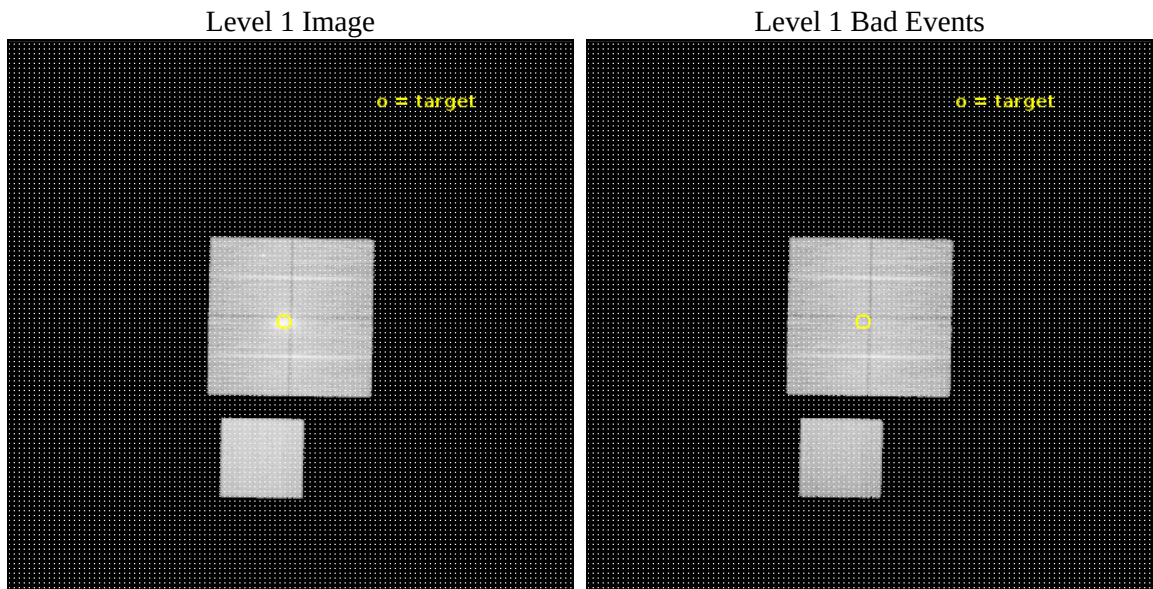
seq_num	801576	Sequence number
obs_id	18252	Observation id
title	Searching for Shock Features in the Radio Halo Cluster Abell 1914	
observer	Jimmy Irwin	Principal investigator
object	Abell 1914	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.501667	Observer's specified target RA [deg]
dec_targ	37.828056	Observer's specified target Dec [deg]
ra_nom	216.49031374433	Nominal RA [deg]
dec_nom	37.823928389536	Nominal Dec [deg]
roll_nom	181.07705212398	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28056.880525827	Sum of GTIs [s]
livetime	27690.296726583	Livetime [s]
ontime0	28053.616345525	Sum of GTIs [s]
ontime1	28056.798445821	Sum of GTIs [s]
ontime2	28056.839485765	Sum of GTIs [s]
ontime3	28056.880525827	Sum of GTIs [s]
ontime7	28056.921565771	Sum of GTIs [s]
l2events	221574	Number of level 2 events



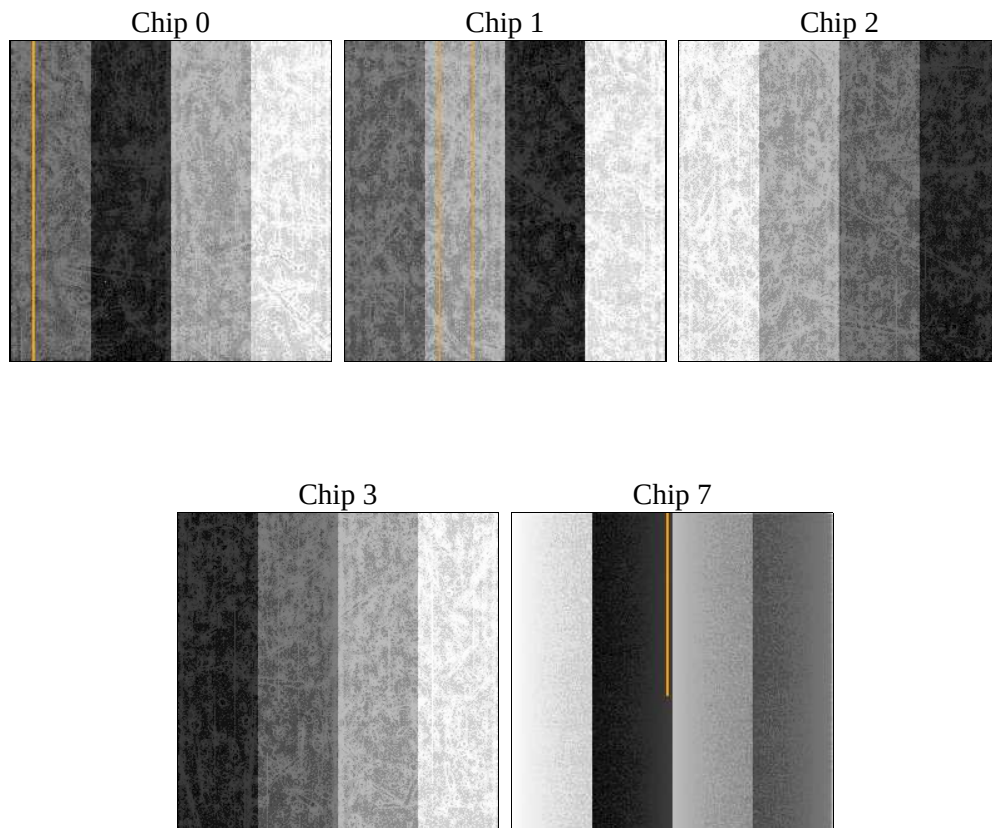
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	28056.880525827	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	28053.616345525	Sum of GTIs [s]
date	2017-05-03T17:59:08	Date and time of file creation	ontime1	28056.798445821	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28056.839485765	Sum of GTIs [s]
			ontime3	28056.880525827	Sum of GTIs [s]
			ontime7	28056.921565771	Sum of GTIs [s]
			l1events	1064870	Number of level 1 events

2.1.4 Events

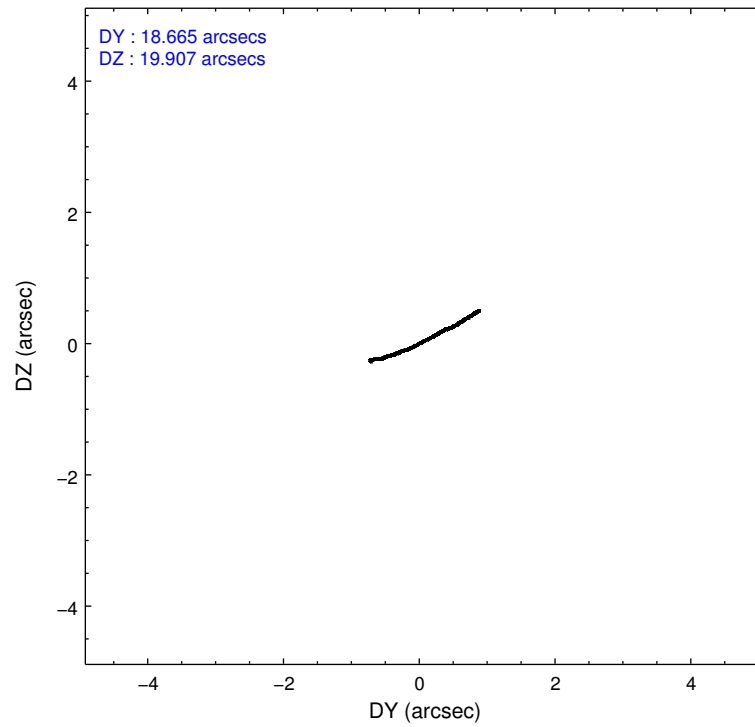
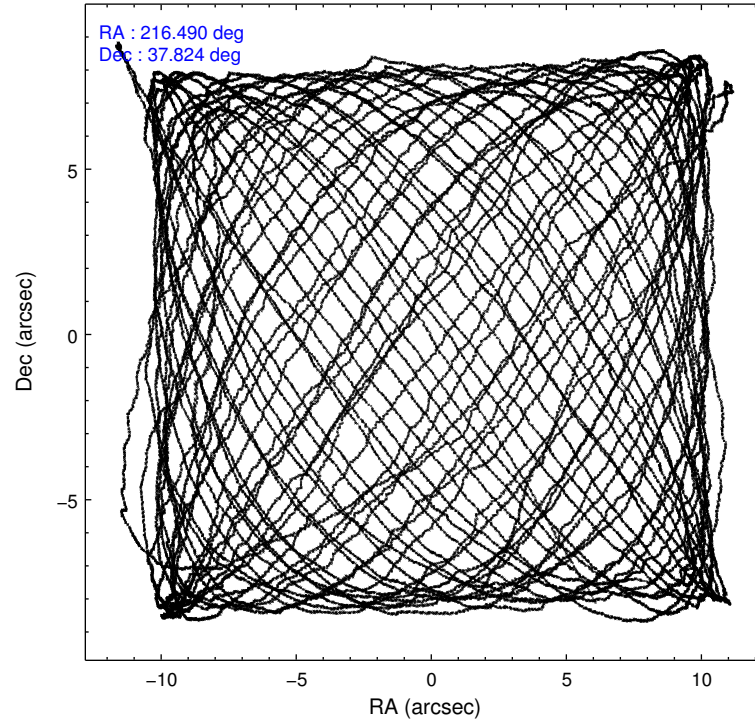
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	183026	195423	212616	218613	255192
rejected events	158049	164708	183635	171380	146237
rejected %	86%	84%	86%	78%	57%

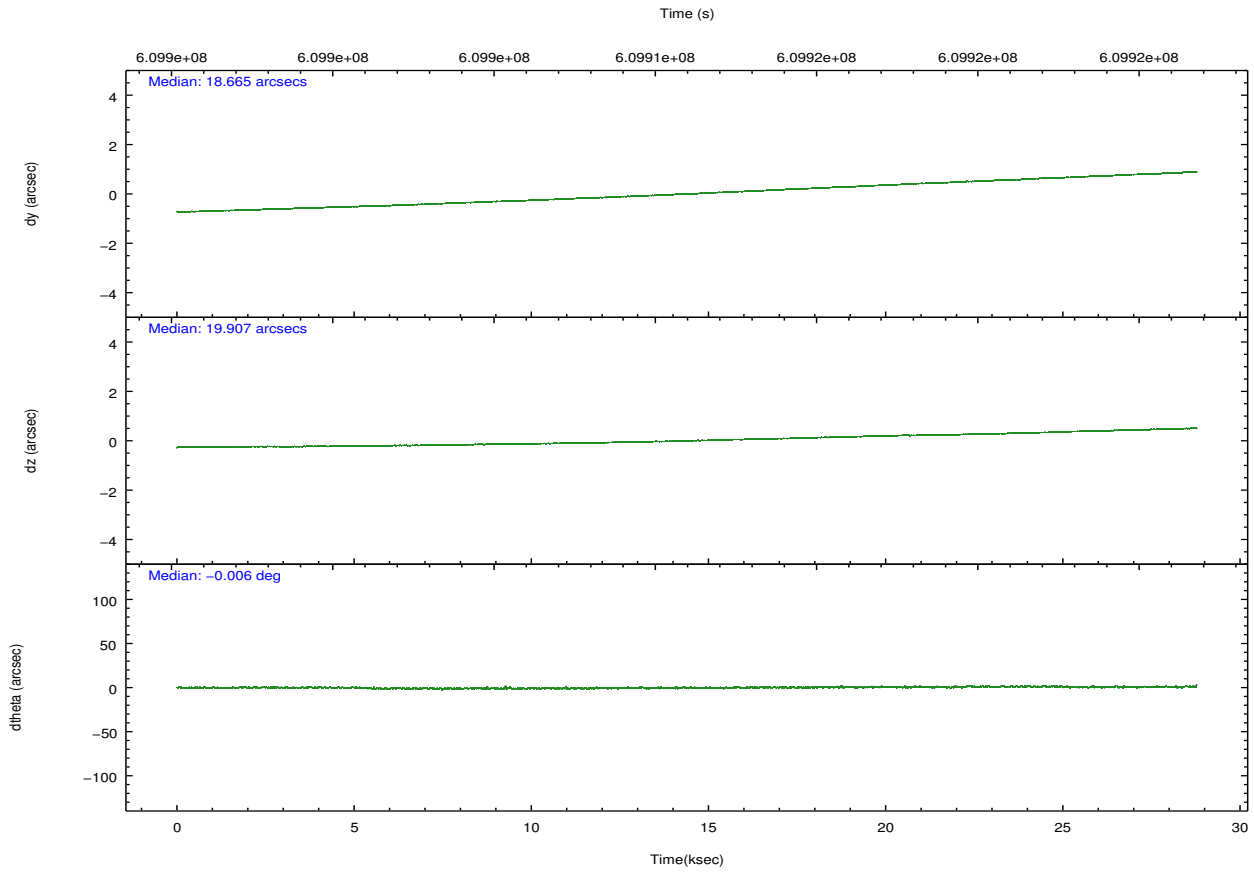
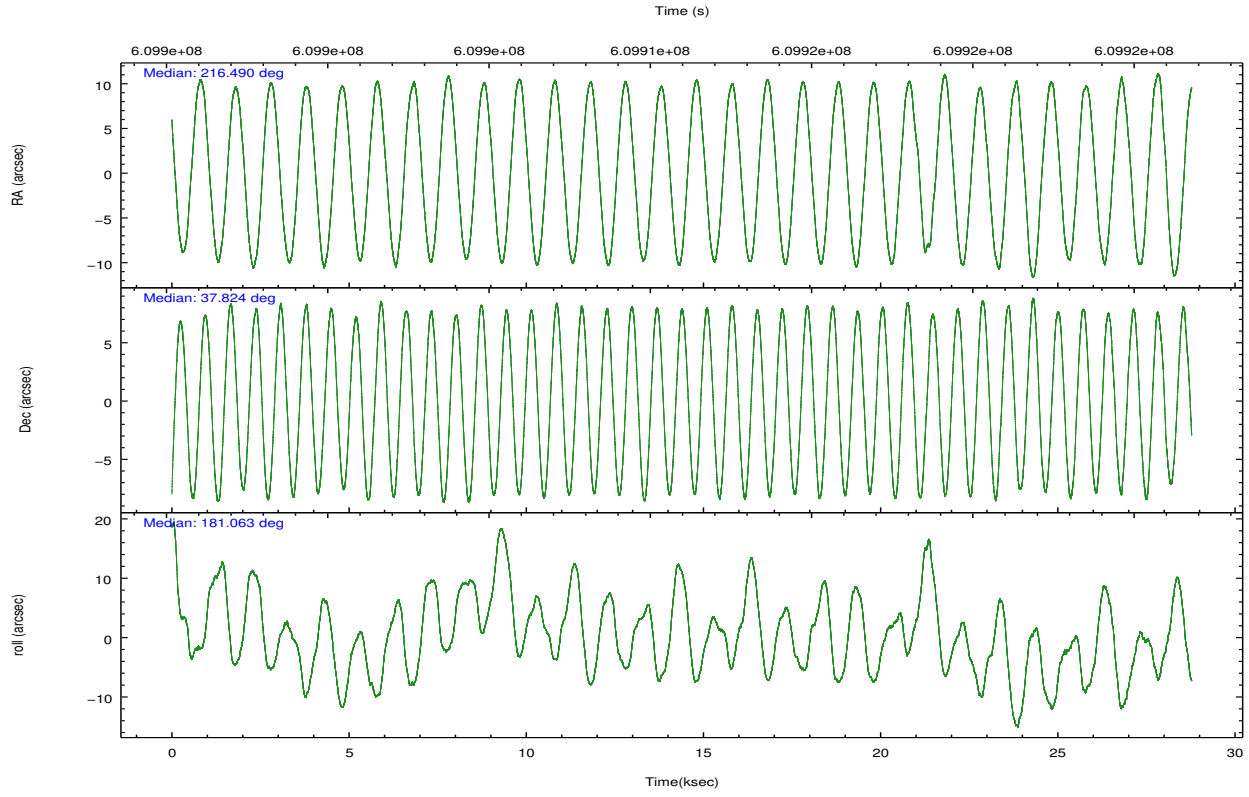
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	9912	13690	13934	28523	8863
	5%	7%	6%	13%	3%
grade 1 events	106	125	130	244	354
	0%	0%	0%	0%	0%
grade 2 events	5732	6499	5915	7352	23304
	3%	3%	2%	3%	9%
grade 3 events	2402	2502	2329	3074	8376
	1%	1%	1%	1%	3%
grade 4 events	2159	2481	2414	3088	8260
	1%	1%	1%	1%	3%
grade 5 events	8389	8552	7852	9405	24930
	4%	4%	3%	4%	9%
grade 6 events	4777	5550	4391	5204	60167
	2%	2%	2%	2%	23%
grade 7 events	149549	156024	175651	161723	120938
	81%	79%	82%	73%	47%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.520192	216.4903137443341	CCD I2 on	Y	Y
[deg] Pointing Dec	37.838250	37.82392838953643	CCD I3 on	Y	Y
[deg] Pointing Roll	180.850040	181.0770521239832	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	609897368.184000	609896130.78448	CCD S5 on	N	N
Observation start date	2017-04-29T23:54:59	2017-04-29T23:35:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	609925368.184000	609926003.38622	On-chip summing requested	N	N
Observation end date	2017-04-30T07:41:39	2017-04-30T07:53:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



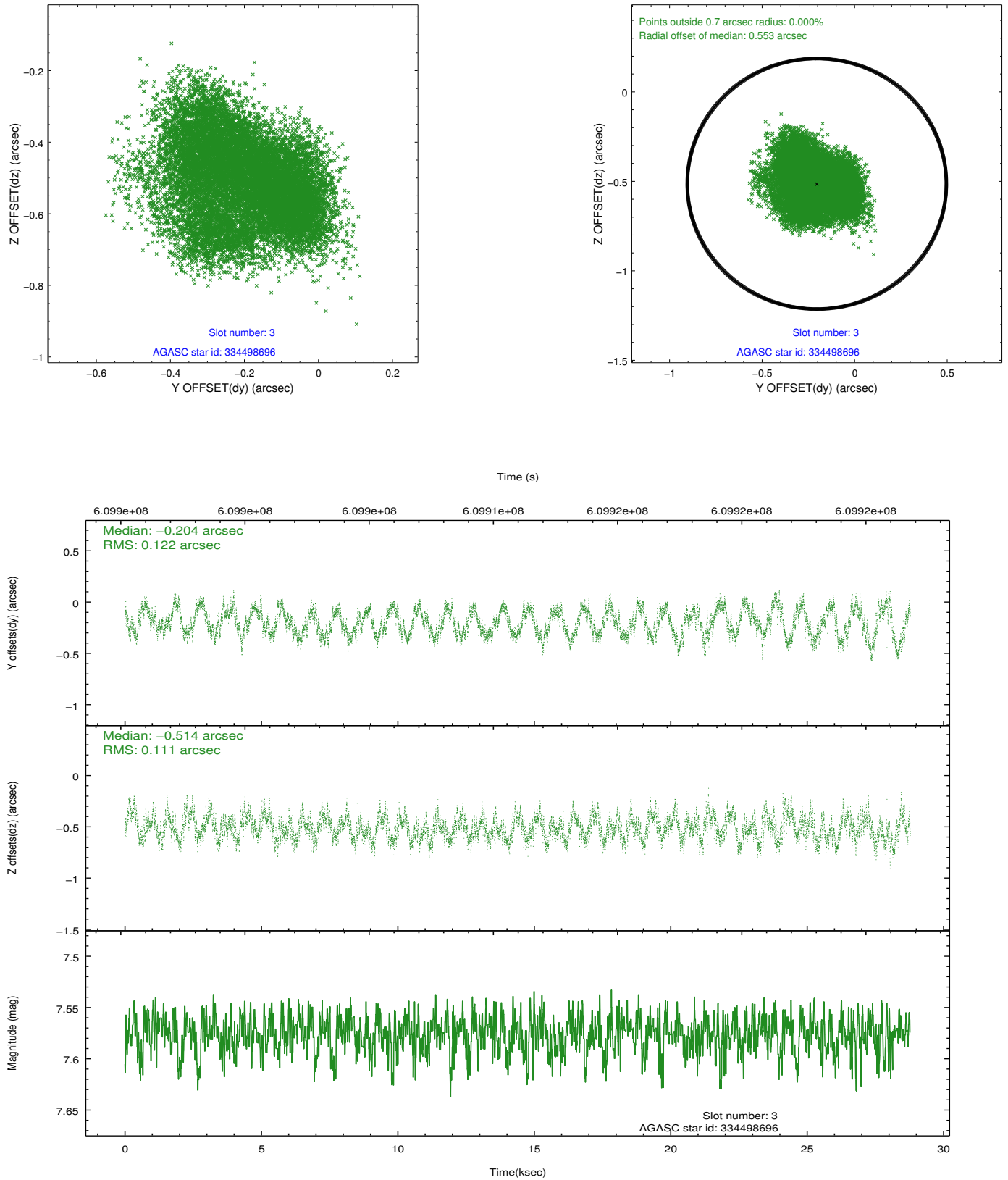


Slot Statistics

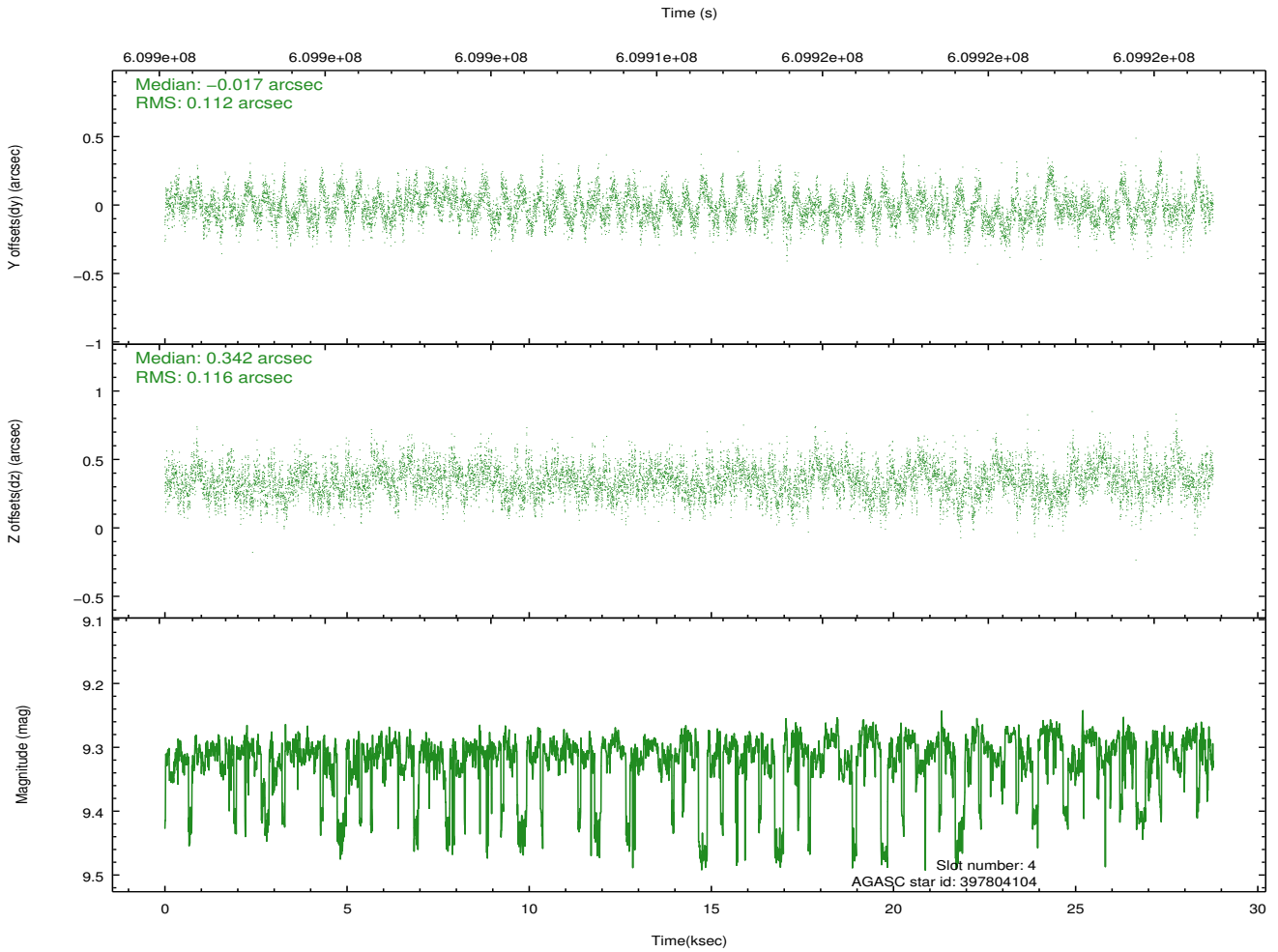
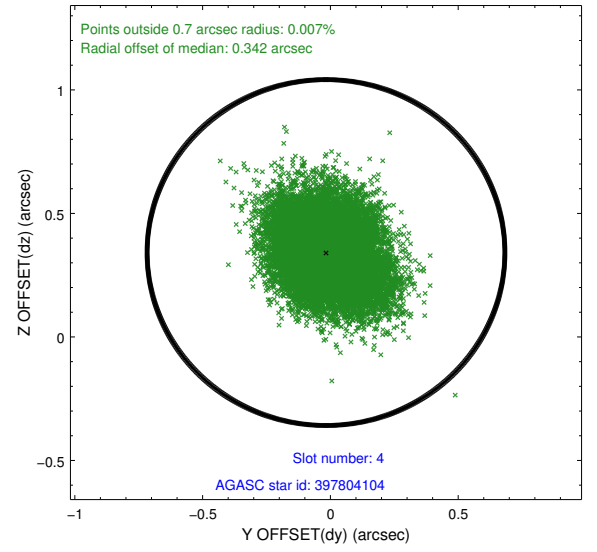
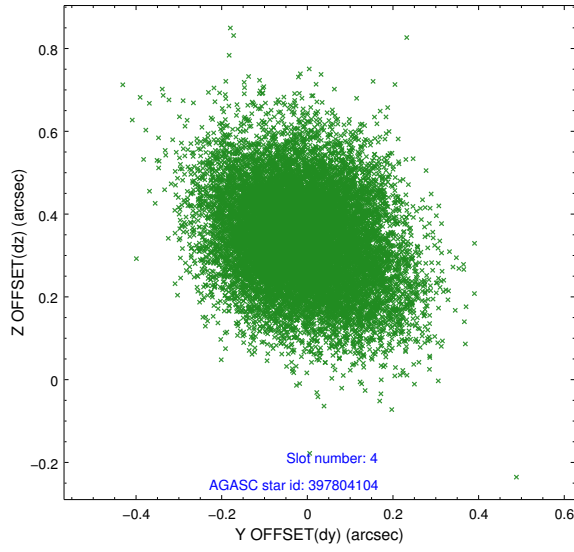
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.18	7019	0.061	-0.048	0.019	0.029	0.000000	0.000000	920.78	-843.67
1	FID		ACIS-I-5	7.17	7018	-0.392	0.007	0.010	0.018	0.000000	0.000000	-1827.86	1053.66
2	FID		ACIS-I-6	7.19	7015	0.239	0.112	0.018	0.025	0.000000	0.000000	386.25	1698.50
3	GUIDE	used	334498696	7.58	14035	-0.204	-0.514	0.181	0.265	215.863981	37.206551	1916.16	2238.44
4	GUIDE	used	397804104	9.31	14018	-0.017	0.342	0.171	0.281	216.088268	38.455118	1186.46	-2242.28
5	GUIDE	used	397808560	9.80	14022	0.202	0.239	0.293	0.445	216.564463	37.977903	-131.68	-500.20
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	397943760	7.91	14036	0.016	-0.078	0.146	0.224	217.039857	37.556695	-1467.97	1030.94

2.4 Star Slots

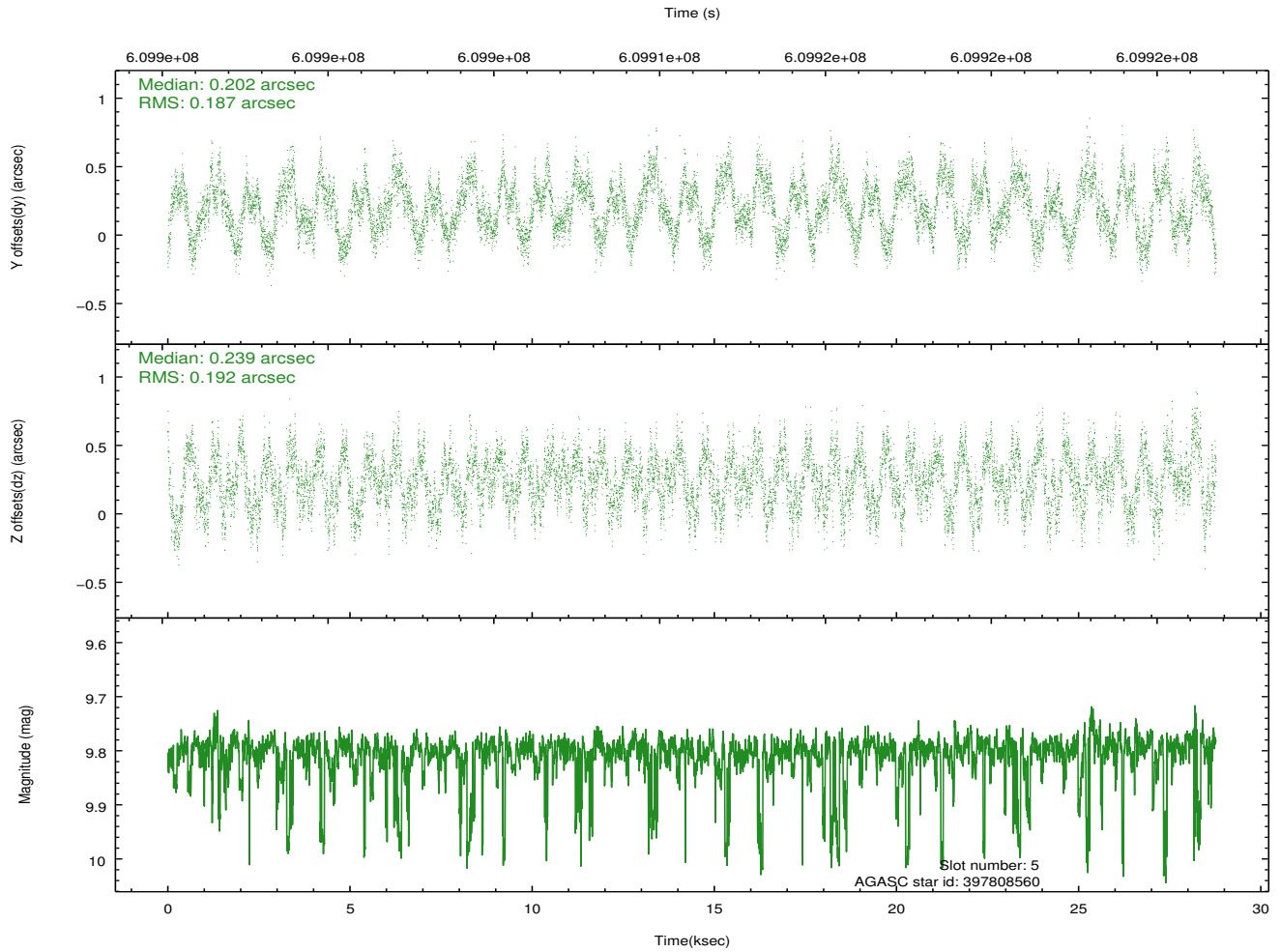
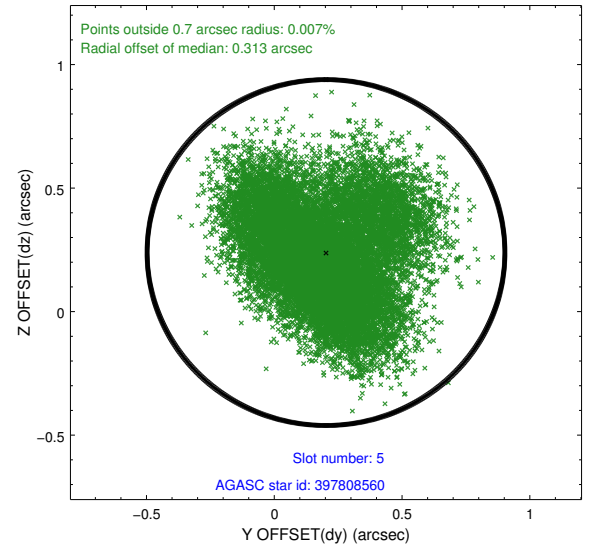
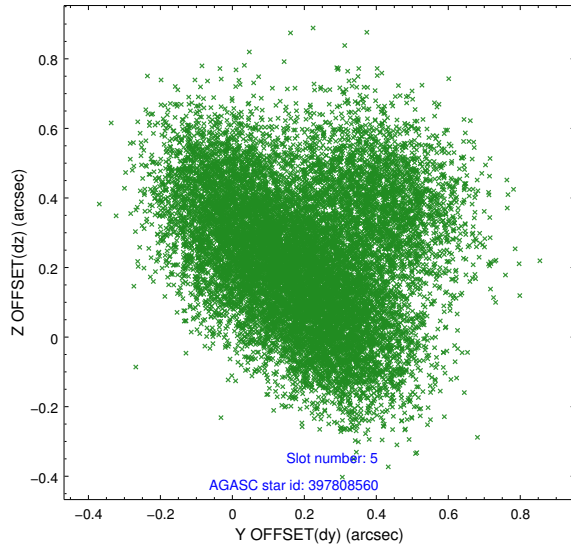
2.4.1 Slot 3



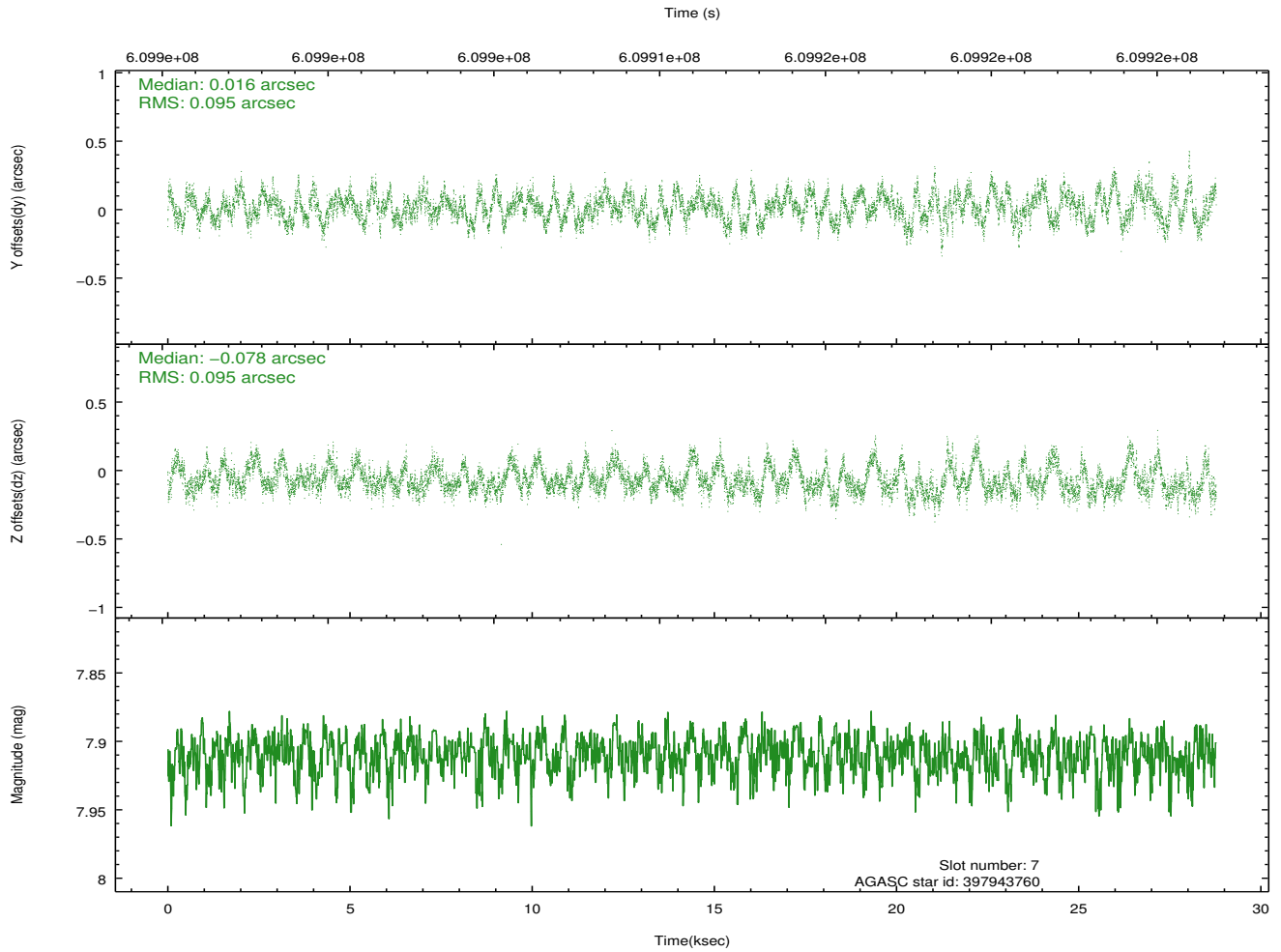
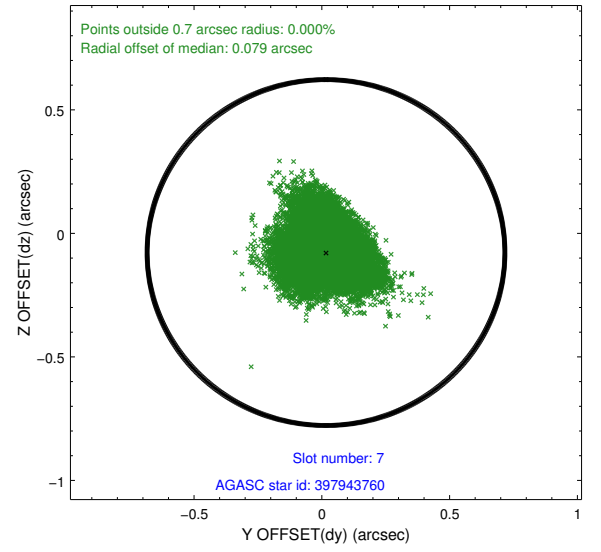
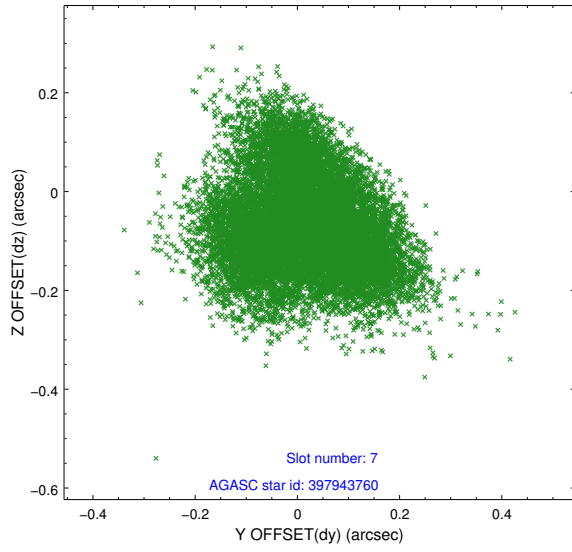
2.4.2 Slot 4



2.4.3 Slot 5

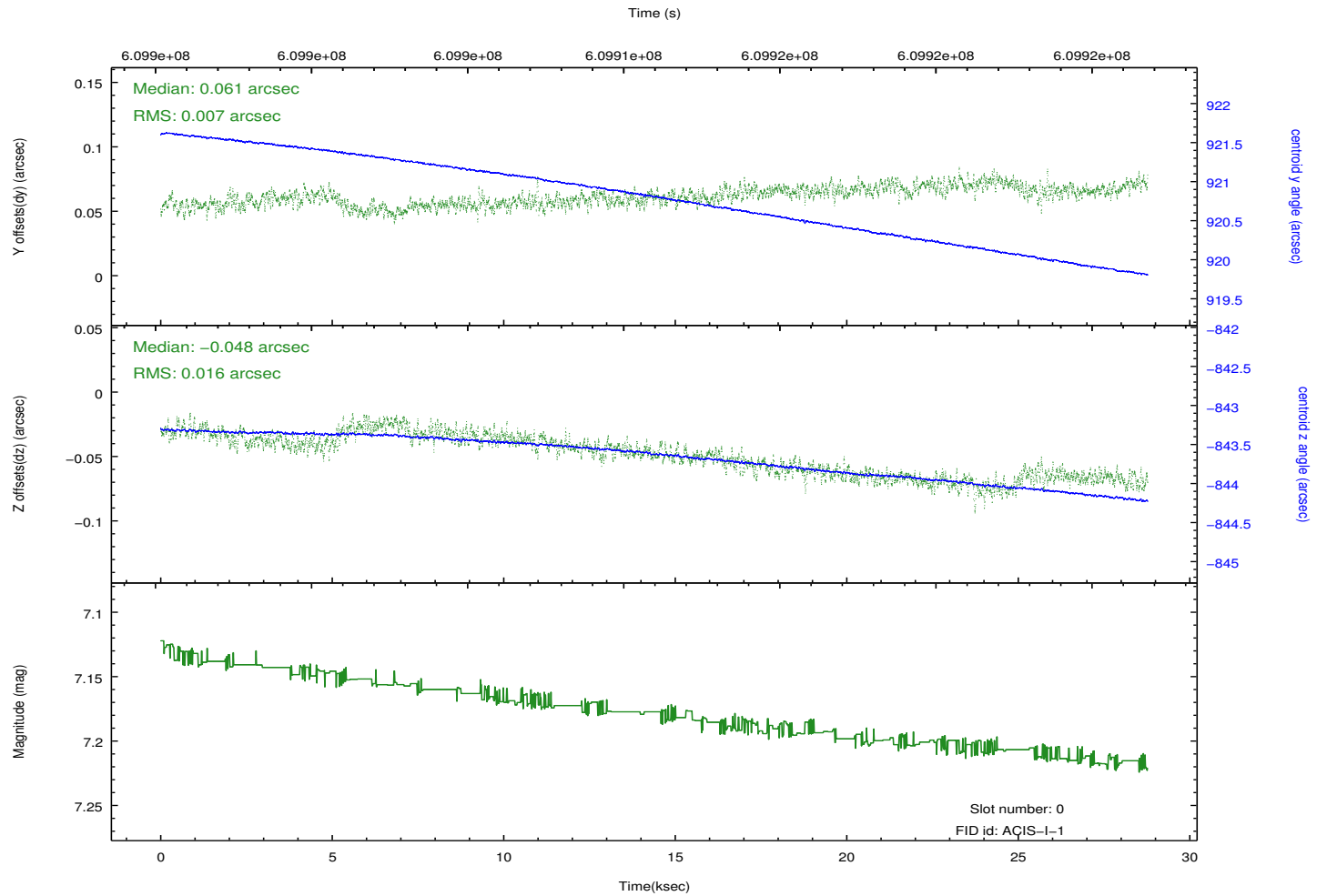
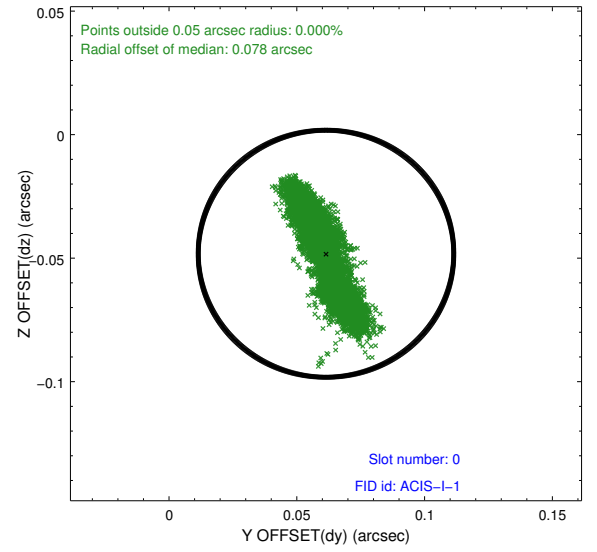
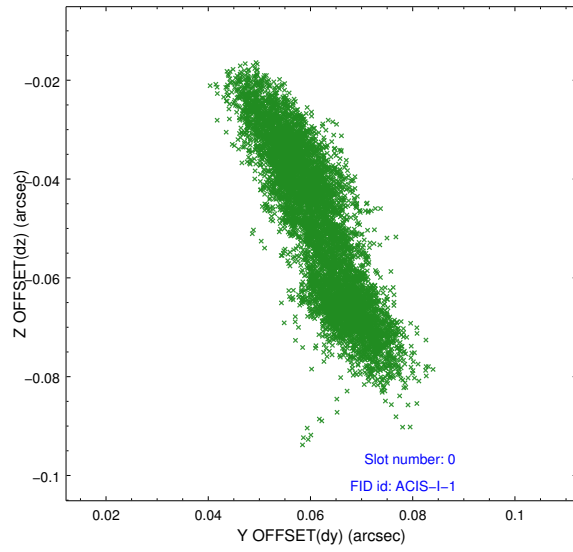


2.4.4 Slot 7

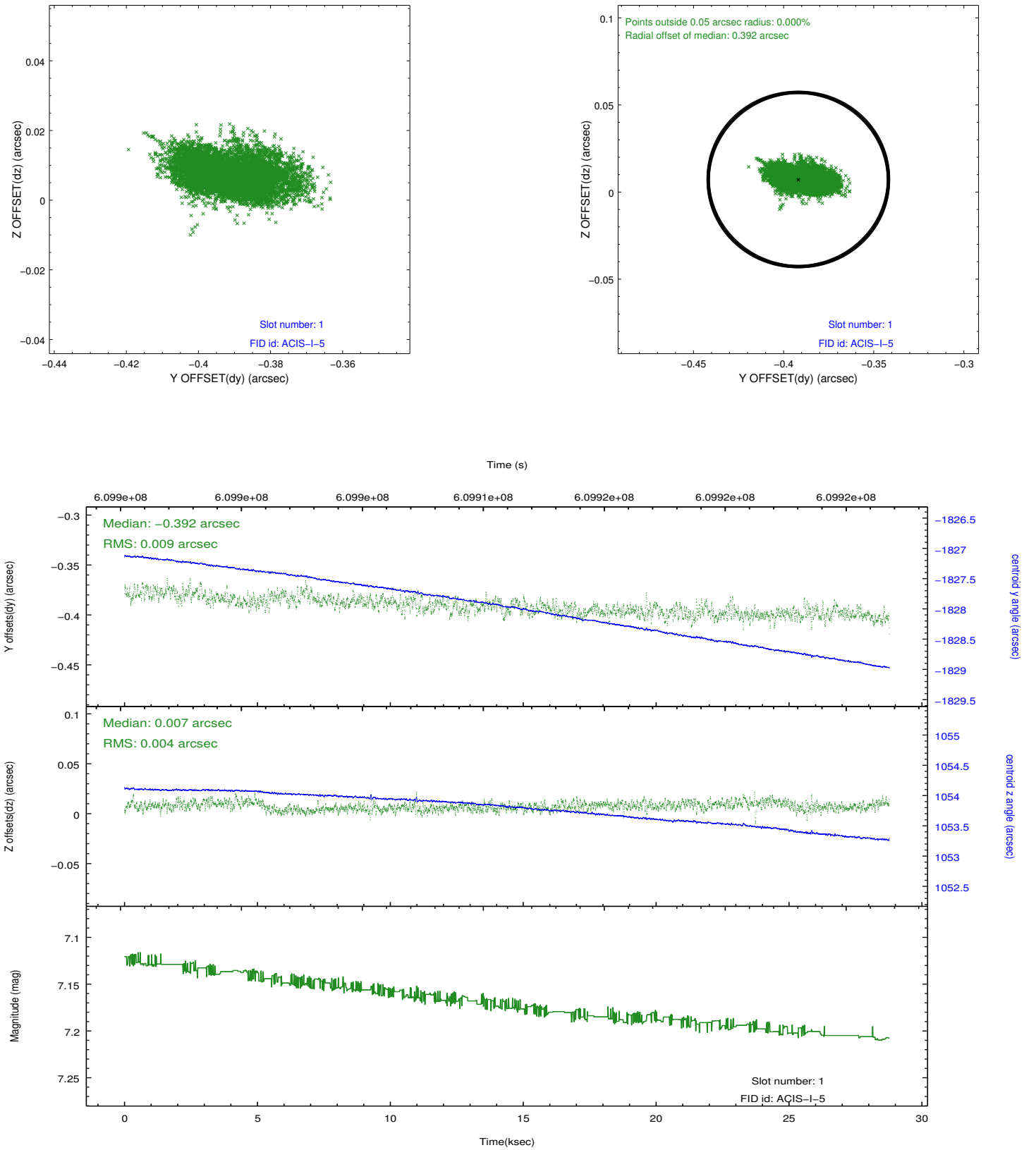


2.5 FID Slots

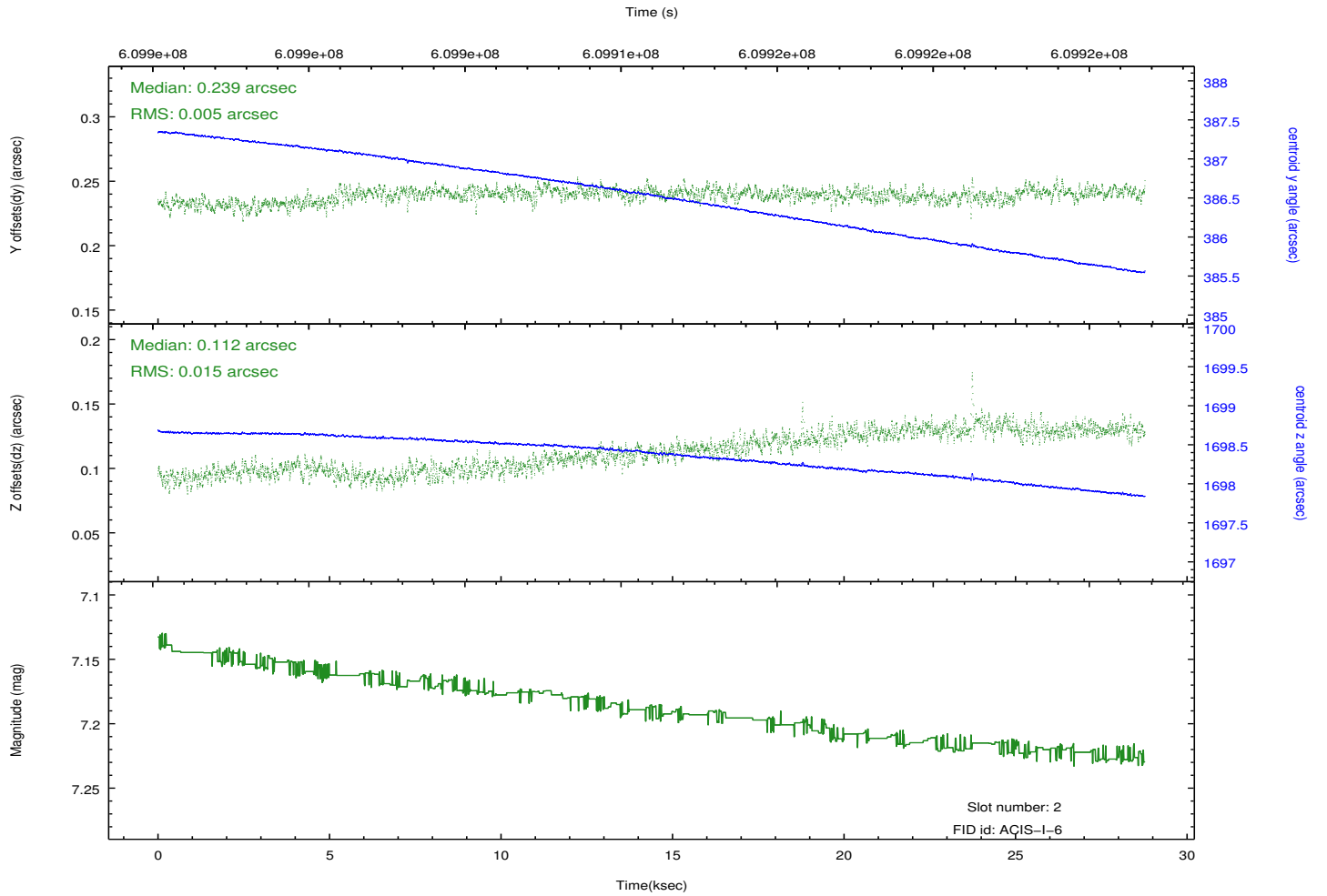
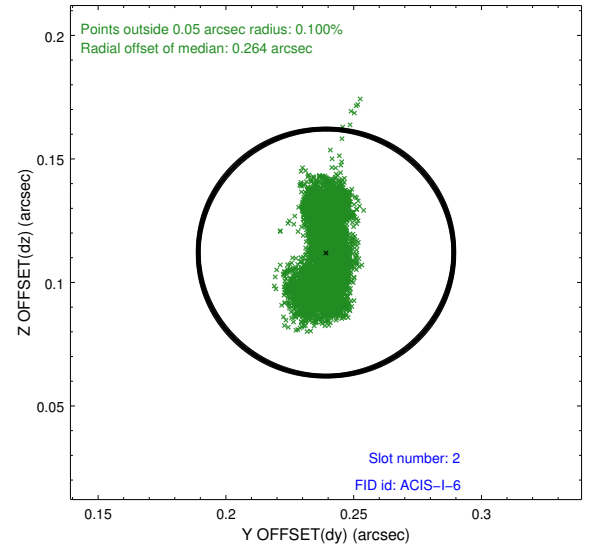
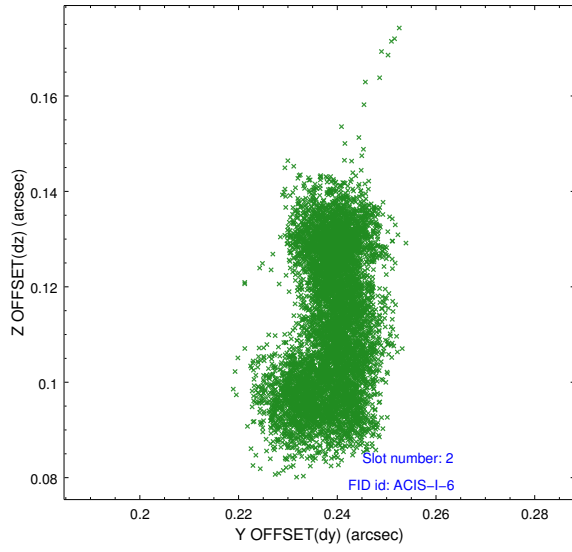
2.5.1 Slot 0



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)	2017.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.056880525827

A.2 Comments

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 slot from the solution.