

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15304 - L2 Version 2
Chandra X-Ray Center

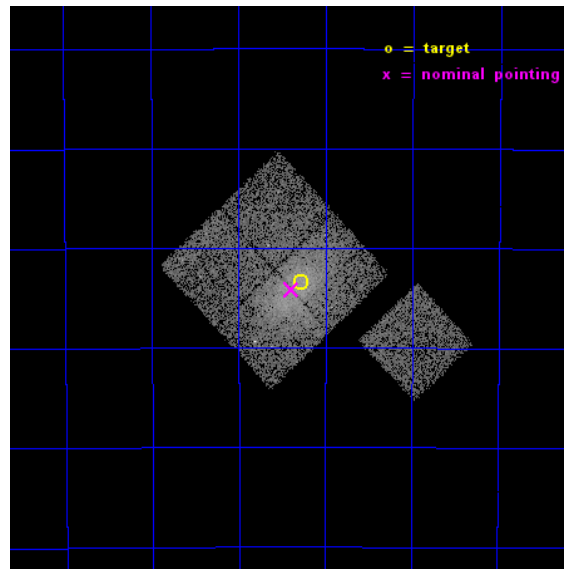
L2 Processing Date : Dec 2 2014

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1 Front

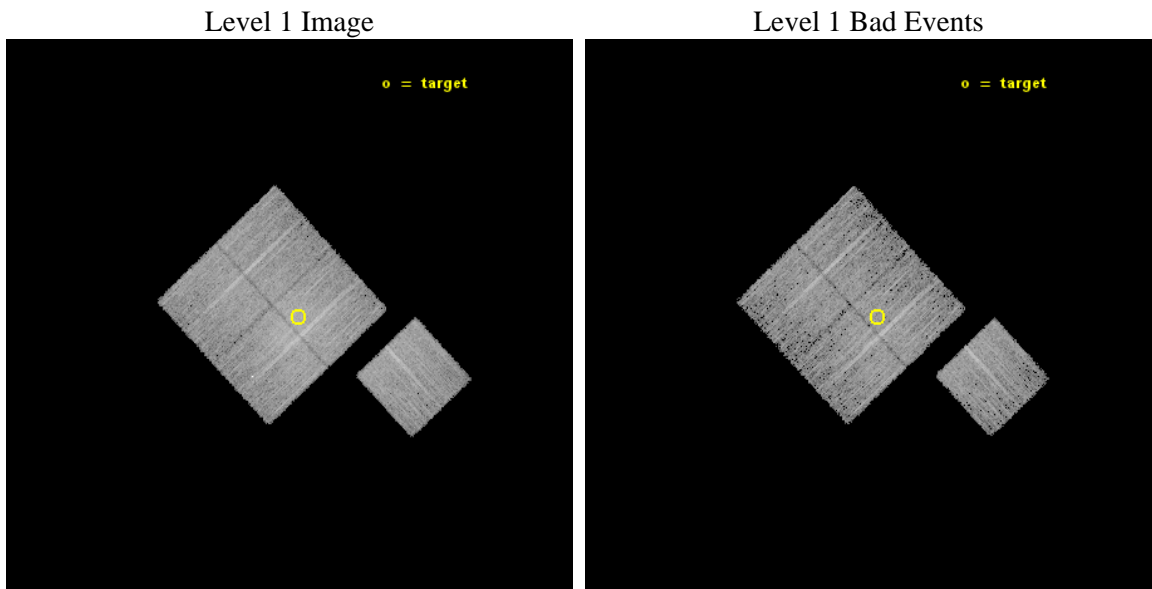
seq_num	801337	Sequence number
obs_id	15304	Observation id
title	Characterizing the Most Massive Clusters in the z	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	G336.59-55.44	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.57125	Observer's specified target RA [deg]
dec_targ	-52.723111	Observer's specified target Dec [deg]
ra_nom	341.597954442	Nominal RA [deg]
dec_nom	-52.736080153643	Nominal Dec [deg]
roll_nom	136.74996067293	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10021.051698625	Sum of GTIs [s]
livetime	9890.1192807916	Livetime [s]
ontime0	10020.969618618	Sum of GTIs [s]
ontime1	10021.010658622	Sum of GTIs [s]
ontime2	10021.051698625	Sum of GTIs [s]
ontime3	10021.092738628	Sum of GTIs [s]
ontime6	10020.928578615	Sum of GTIs [s]
l2events	39822	Number of level 2 events



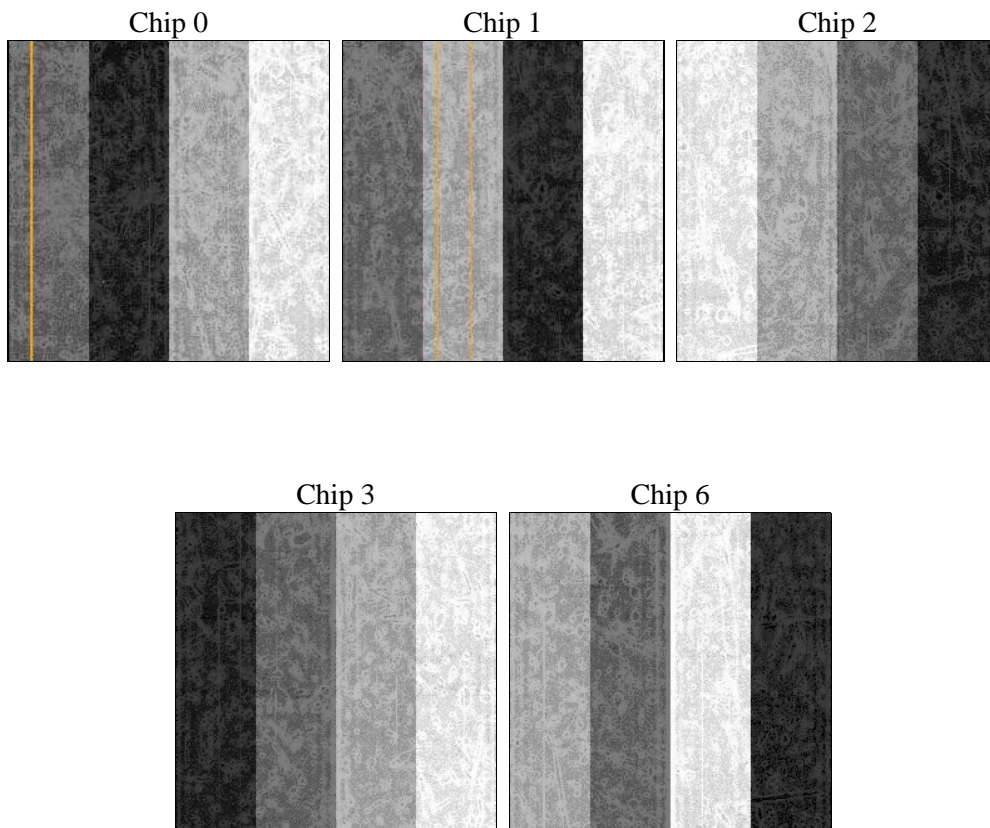
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10021.051698625	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	10020.969618618	Sum of GTIs [s]
date	2014-12-02T17:56:56	Date and time of file creation	ontime1	10021.010658622	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10021.051698625	Sum of GTIs [s]
			ontime3	10021.092738628	Sum of GTIs [s]
			ontime6	10020.928578615	Sum of GTIs [s]
			l1events	258592	Number of level 1 events

2.1.4 Events

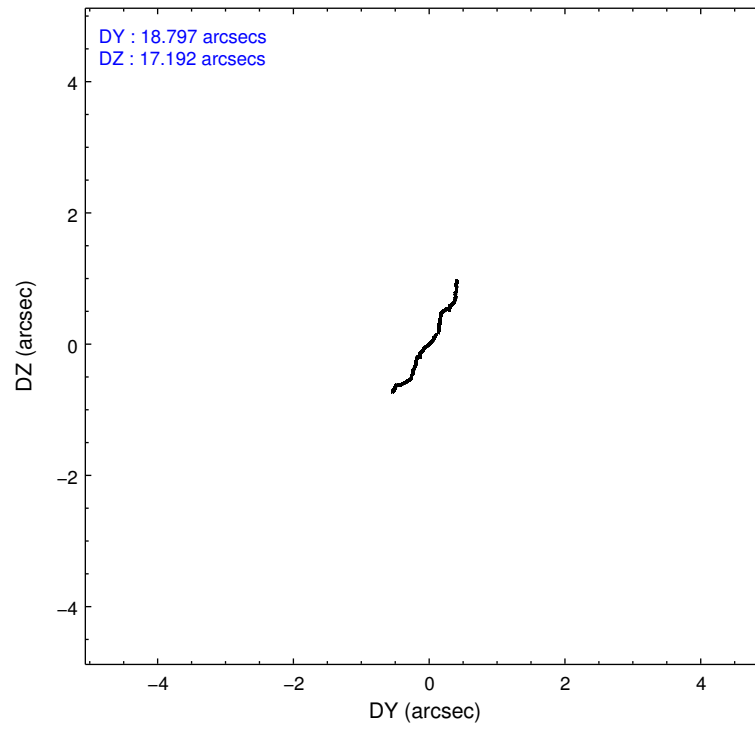
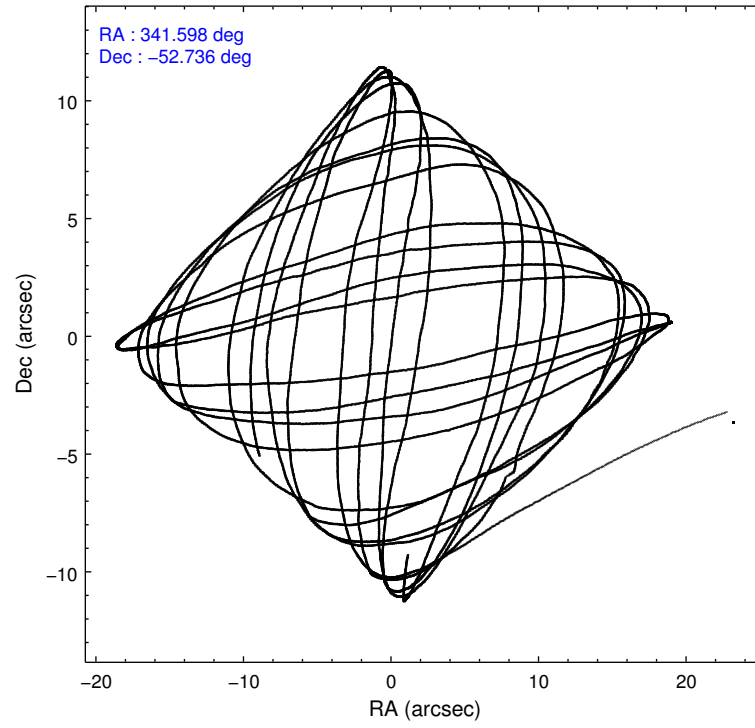
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	46756	47872	57852	55654	50458
rejected events	39709	40555	44910	43997	44322
rejected %	84%	84%	77%	79%	87%

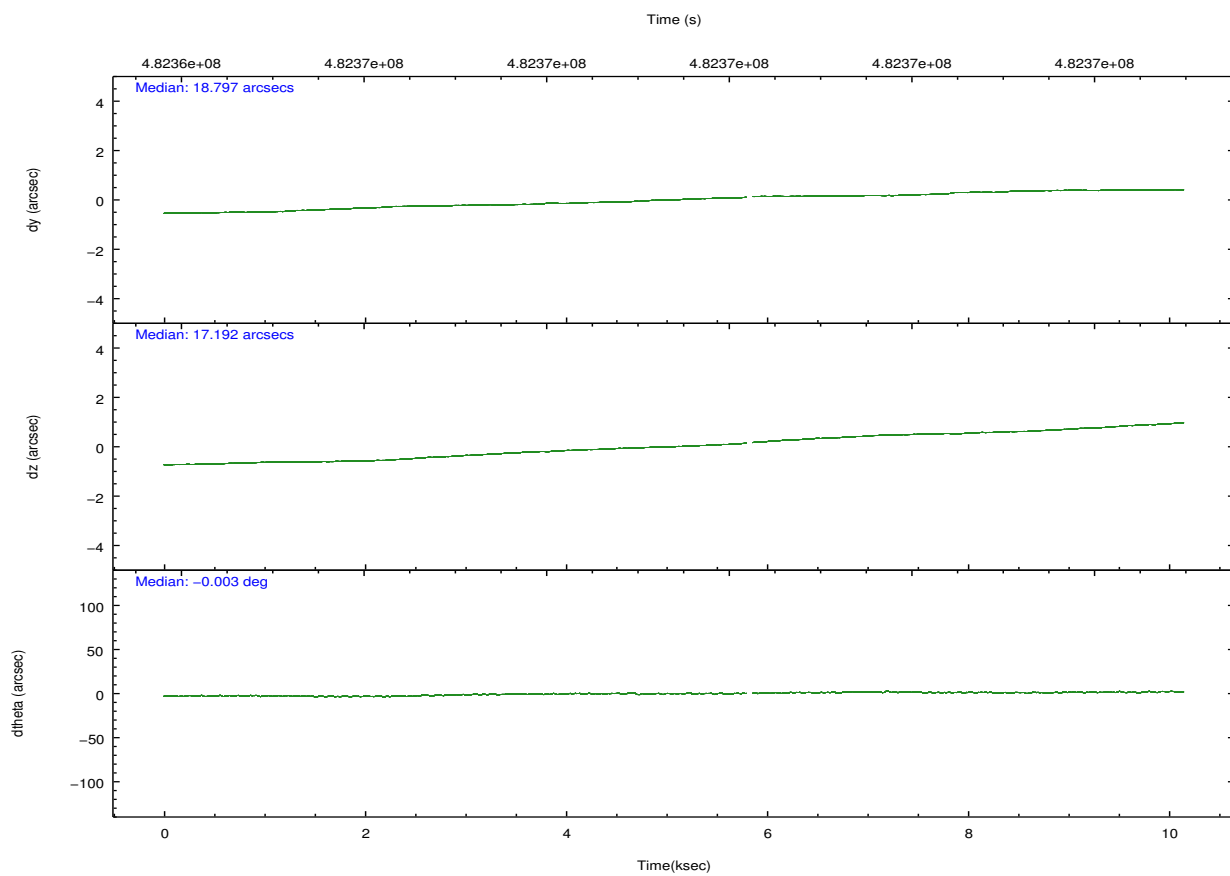
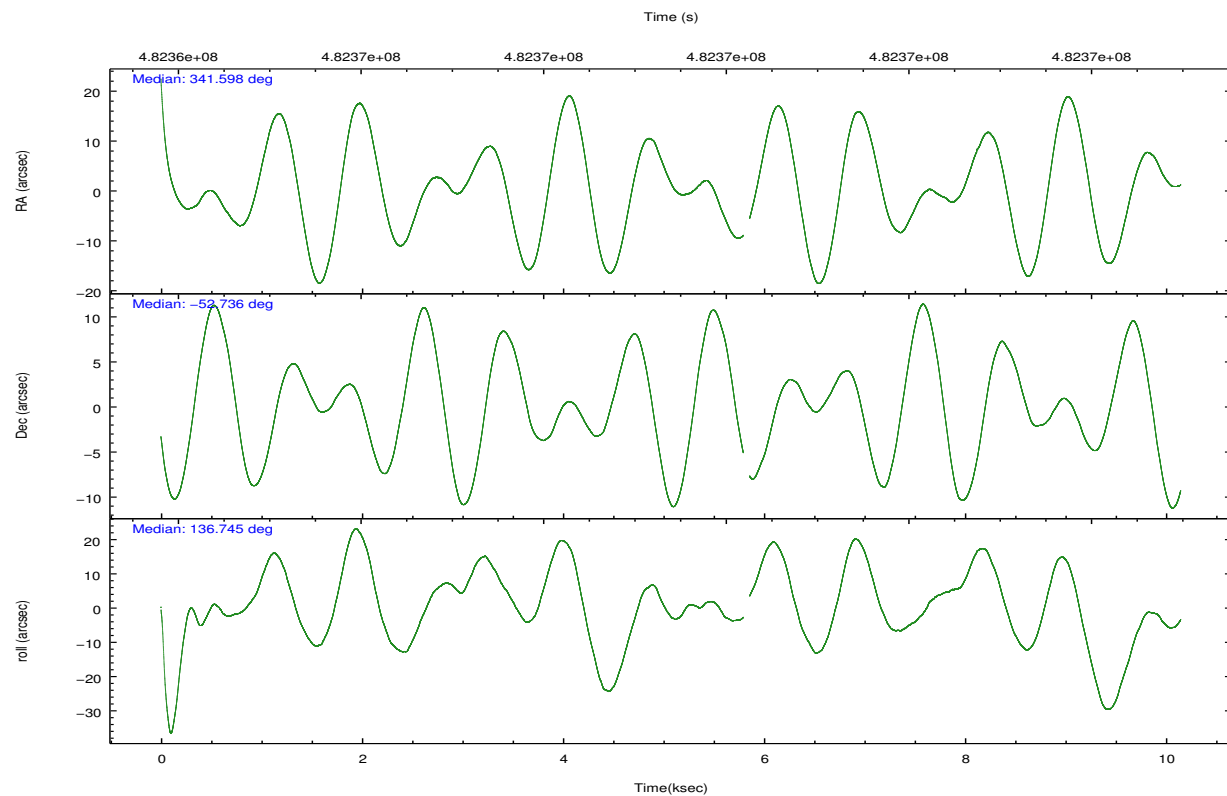
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3017	2875	7979	6992	2177
	6%	6%	13%	12%	4%
grade 1 events	32	28	42	50	24
	0%	0%	0%	0%	0%
grade 2 events	1617	1685	2161	1806	1356
	3%	3%	3%	3%	2%
grade 3 events	647	678	780	811	604
	1%	1%	1%	1%	1%
grade 4 events	591	680	791	788	578
	1%	1%	1%	1%	1%
grade 5 events	2443	2533	2130	2546	2406
	5%	5%	3%	4%	4%
grade 6 events	1231	1455	1307	1337	1458
	2%	3%	2%	2%	2%
grade 7 events	37178	37938	42662	41324	41855
	79%	79%	73%	74%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	341.642189	341.5979544420045	CCD I2 on	Y	Y
[deg] Pointing Dec	-52.742221	-52.73608015364331	CCD I3 on	Y	Y
[deg] Pointing Roll	136.576479	136.7499606729319	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	O1	Y
[mm] SIM translation stage pos	-227.842463	-227.8397096814625	CCD S3 on	N	N
[mm] SIM translation stage offset	-5.75	-5.752743321467165	CCD S4 on	N	N
[s] Observation start time (MET)	482364460.184000	482363483.21388	CCD S5 on	N	N
Observation start date	2013-04-14T22:06:33	2013-04-14T21:51:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	482374460.184000	482374859.17699	On-chip summing requested	N	N
Observation end date	2013-04-15T00:53:13	2013-04-15T01:00:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



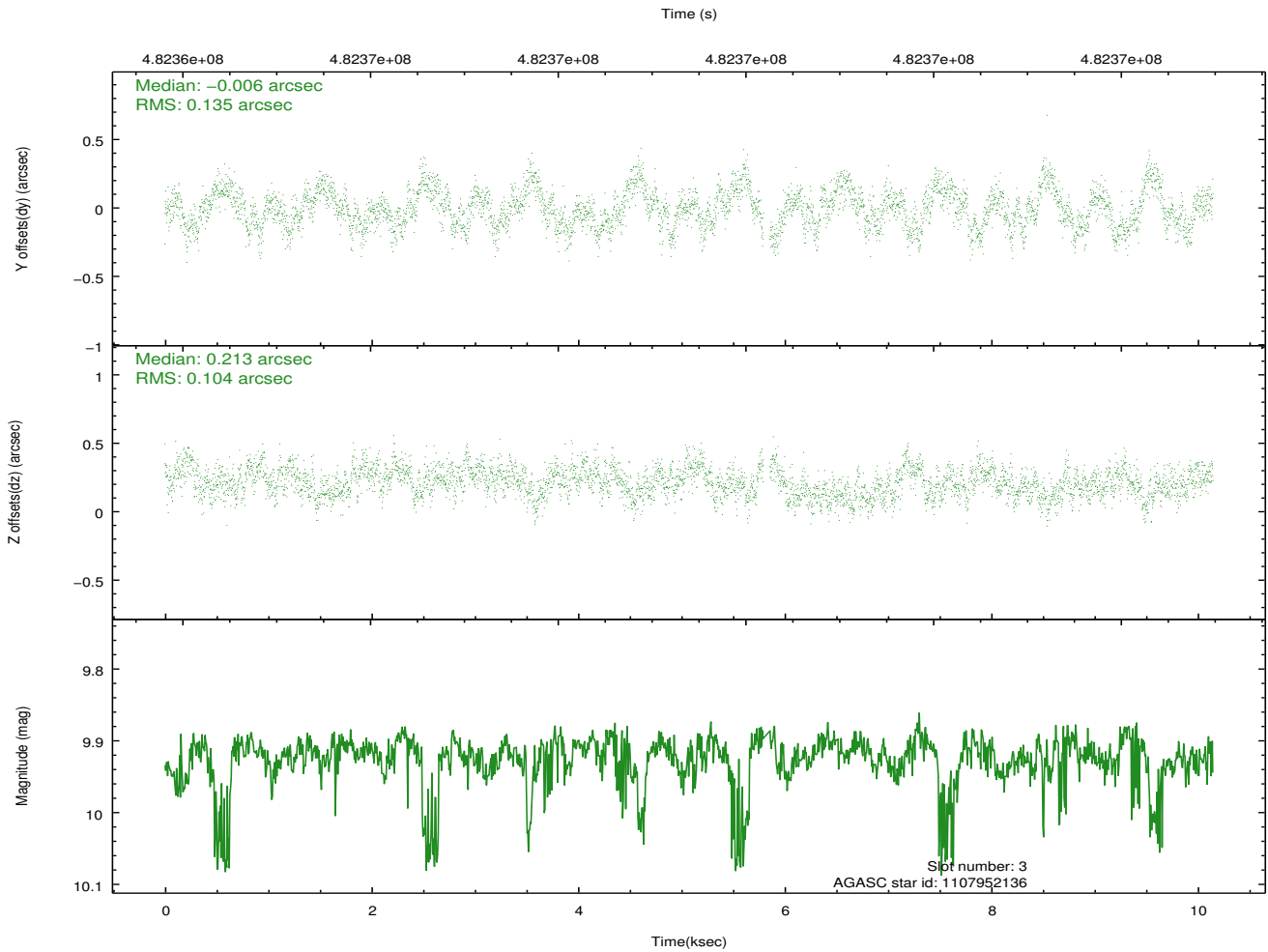
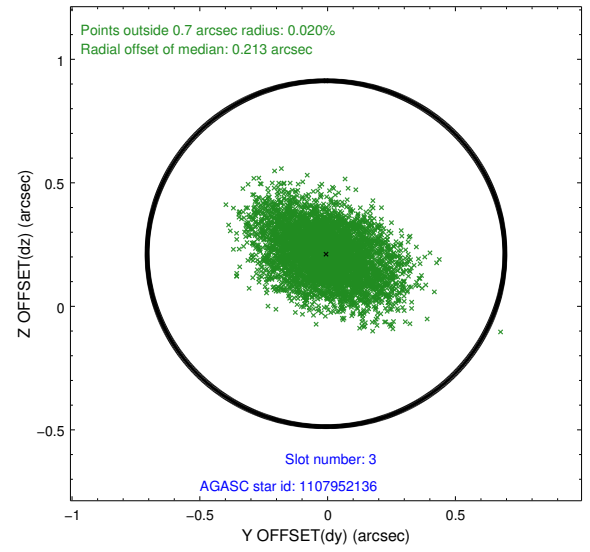
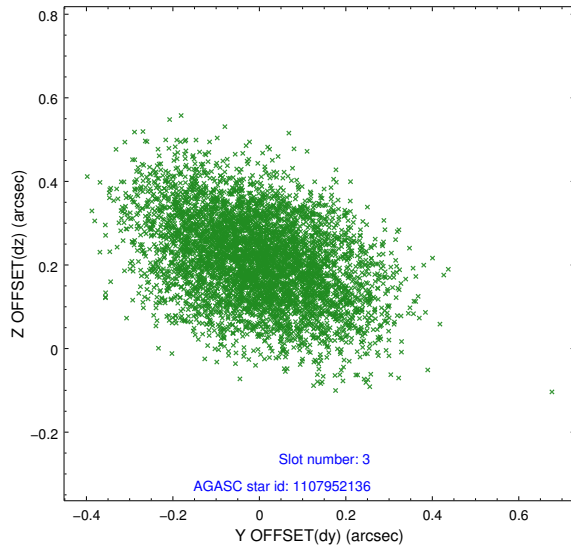


Slot Statistics

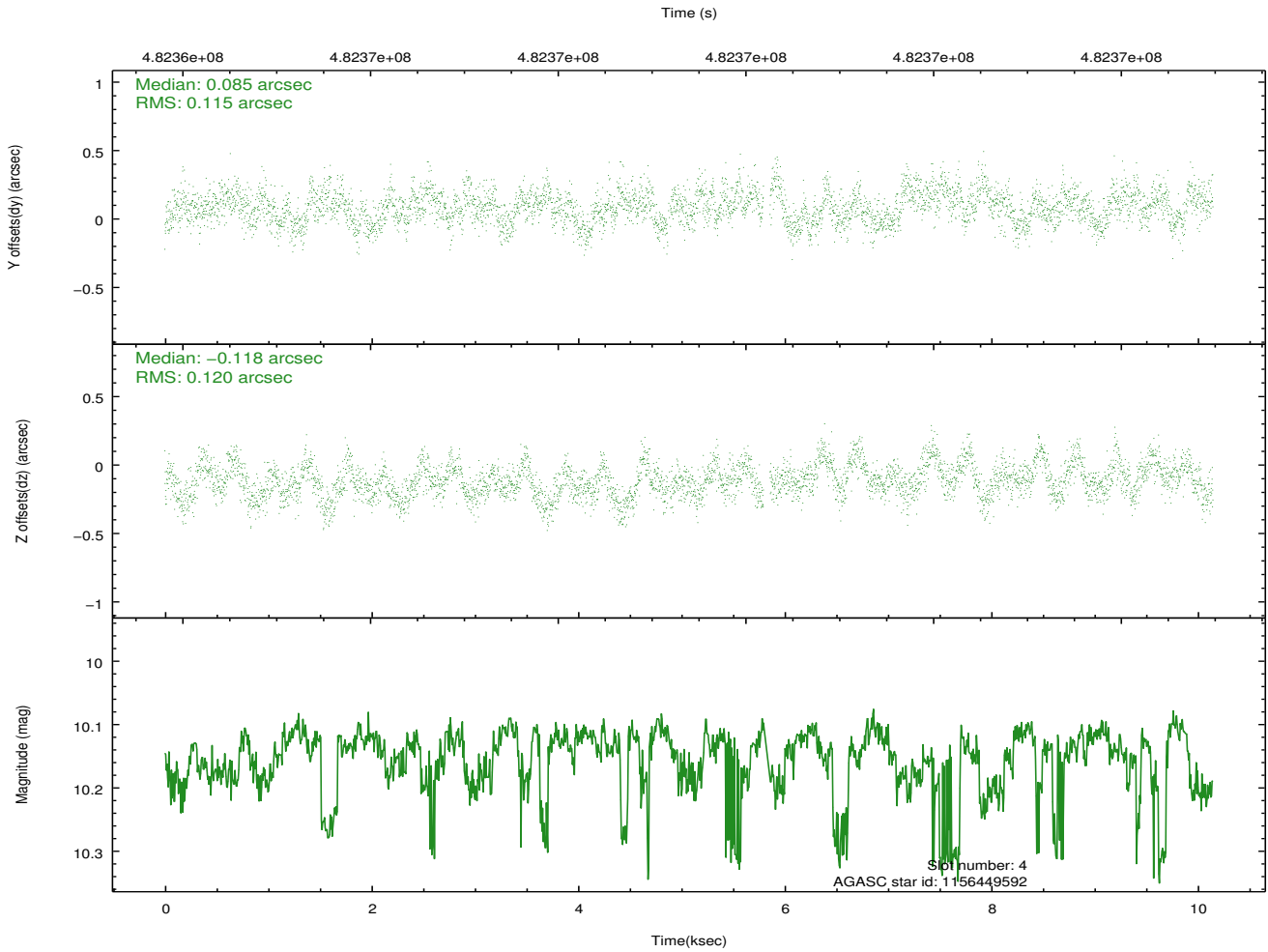
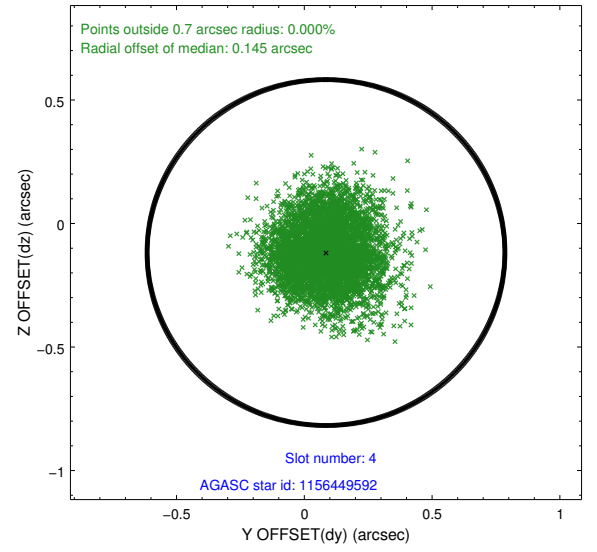
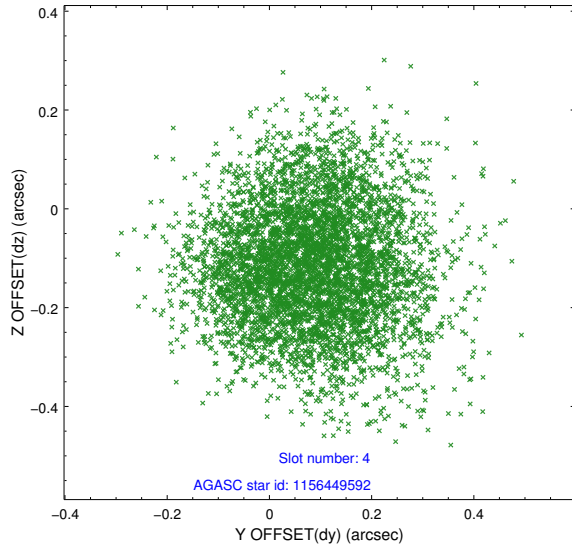
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.08	2460	0.122	-0.096	0.013	0.023	0.000000	0.000000	920.61	-959.04
1	FID		ACIS-I-5	7.07	2460	-0.320	0.084	0.012	0.019	0.000000	0.000000	-1827.68	938.27
2	FID		ACIS-I-6	7.08	2460	0.109	0.085	0.012	0.020	0.000000	0.000000	385.53	1583.41
3	GUIDE	used	1107952136	9.92	4904	-0.006	0.213	0.180	0.298	341.385635	-52.344658	1393.34	-650.62
4	GUIDE	used	1156449592	10.15	4881	0.085	-0.118	0.178	0.283	340.662597	-52.511843	2119.74	884.42
5	GUIDE	used	1156453272	9.77	4897	-0.440	-0.442	0.281	0.428	340.881576	-53.035033	465.47	1903.50
6	GUIDE	used	1156453344	10.28	4859	0.500	0.193	0.215	0.354	341.787879	-53.166711	-1278.17	894.40
7	GUIDE	used	1107956344	9.77	4907	-0.120	0.102	0.238	0.404	341.577827	-51.819518	2387.60	-2313.66

2.4 Star Slots

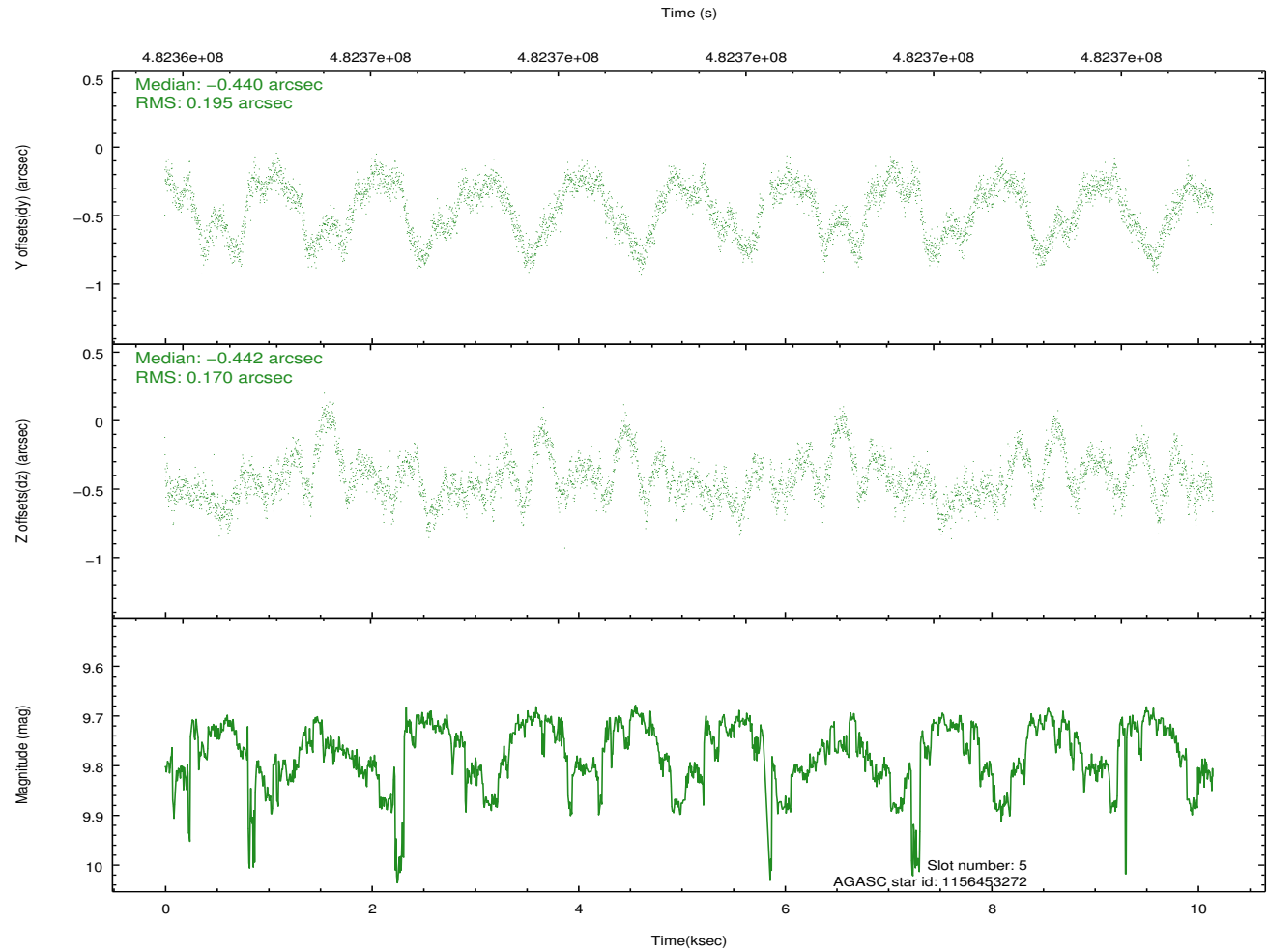
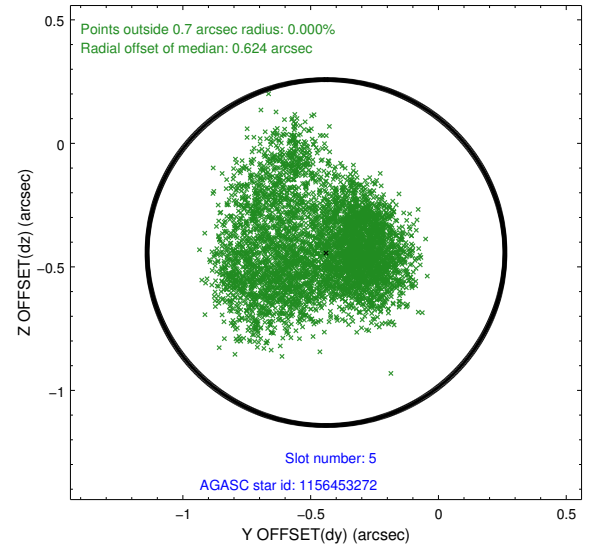
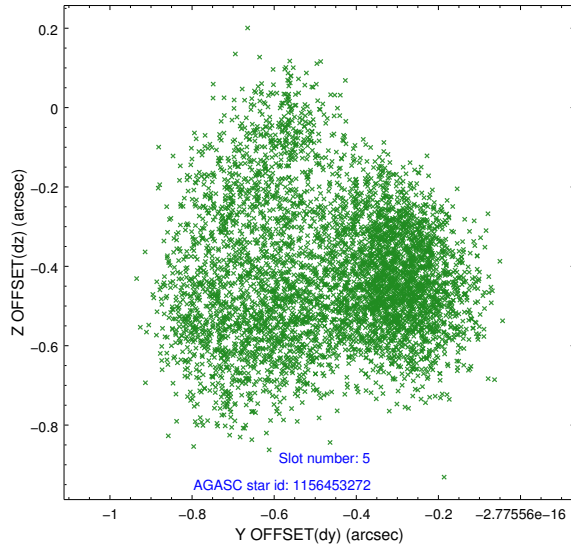
2.4.1 Slot 3



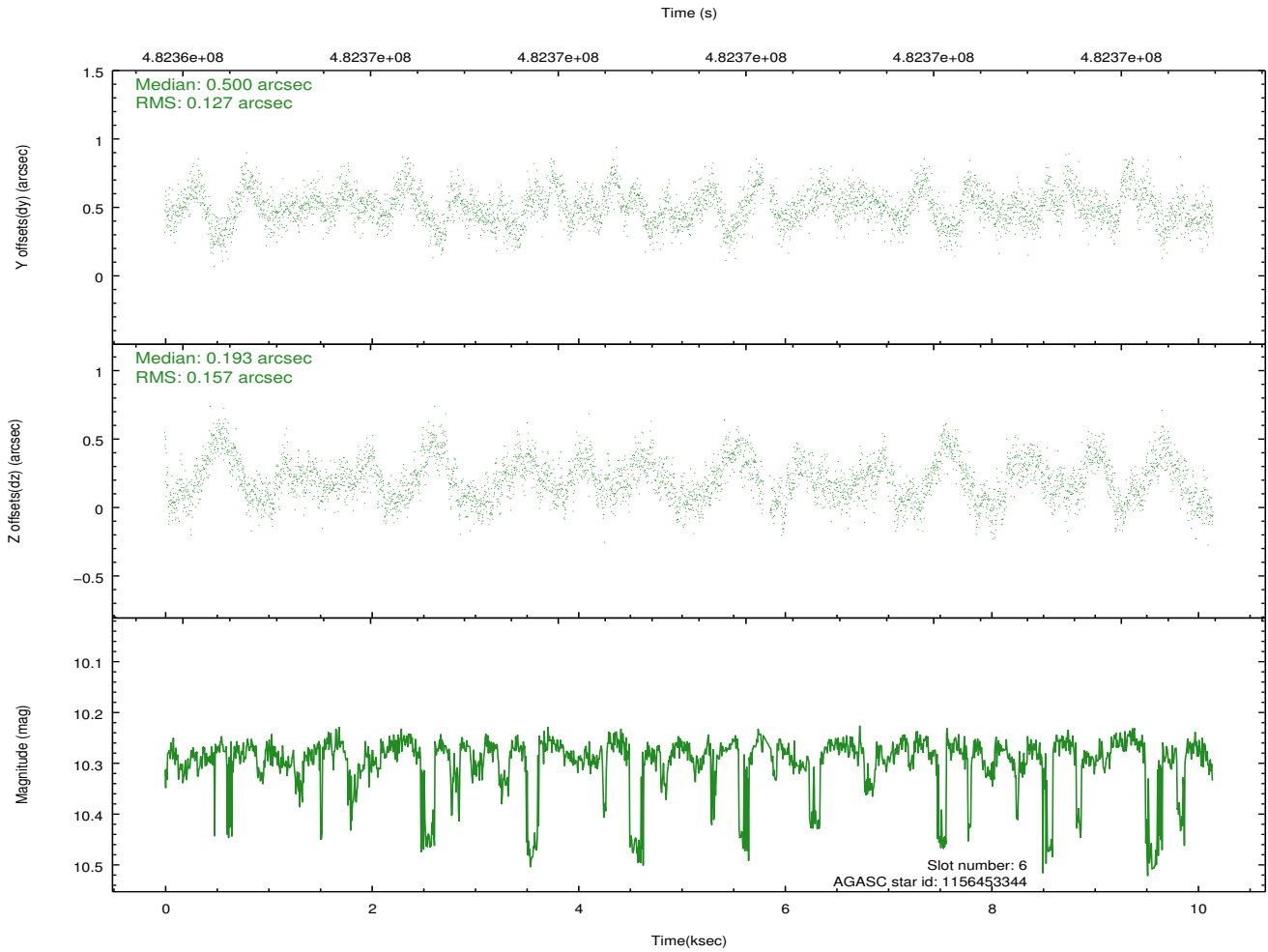
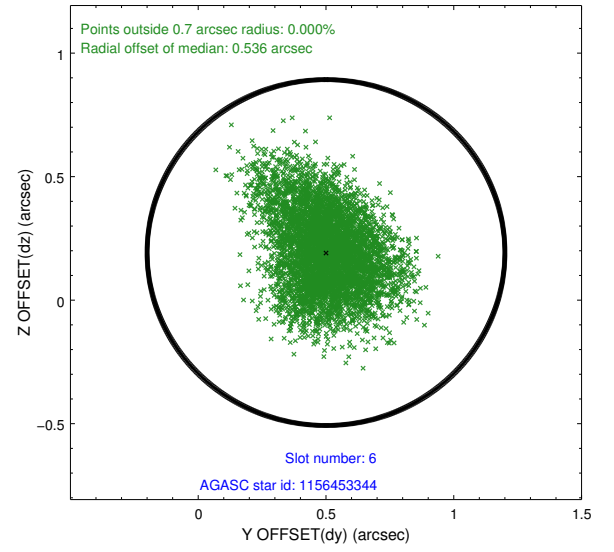
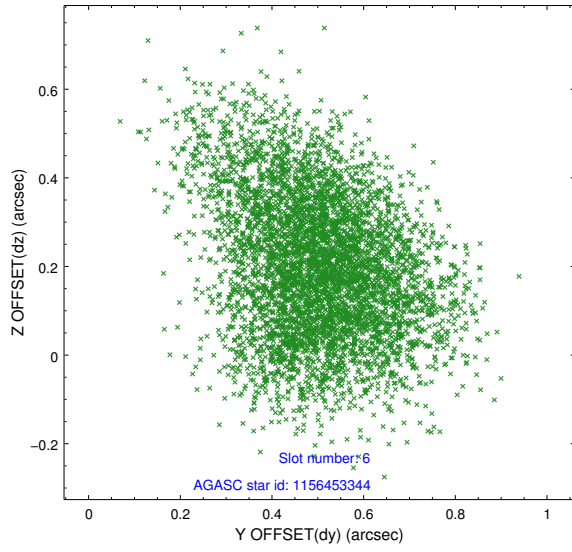
2.4.2 Slot 4



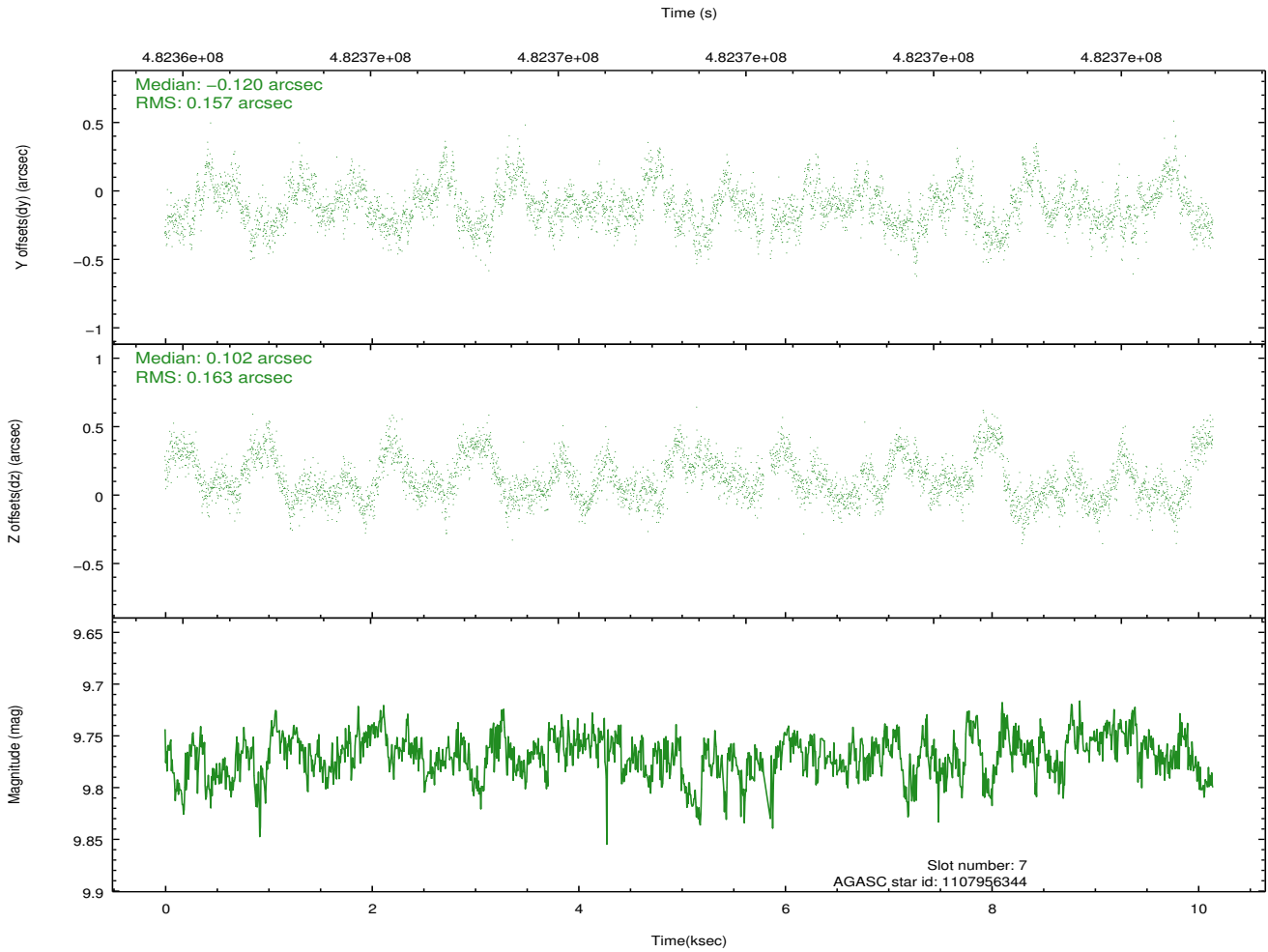
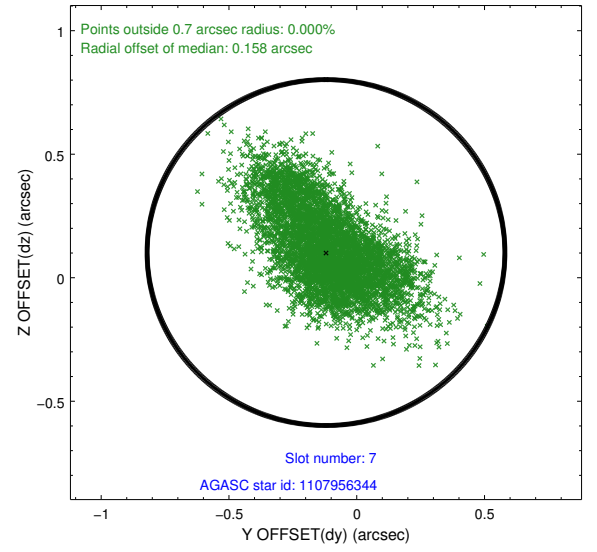
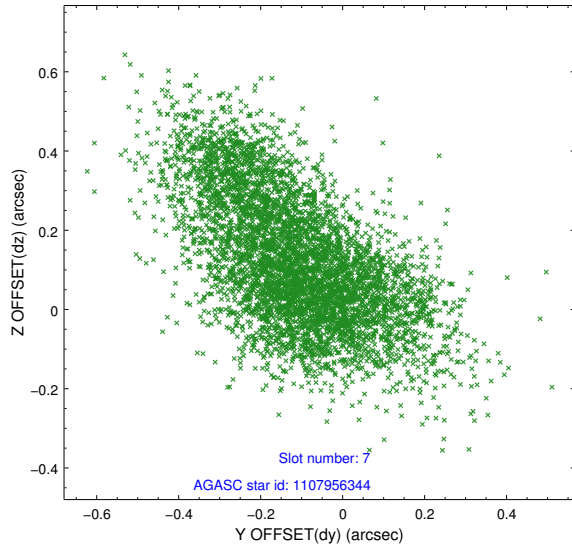
2.4.3 Slot 5



2.4.4 Slot 6

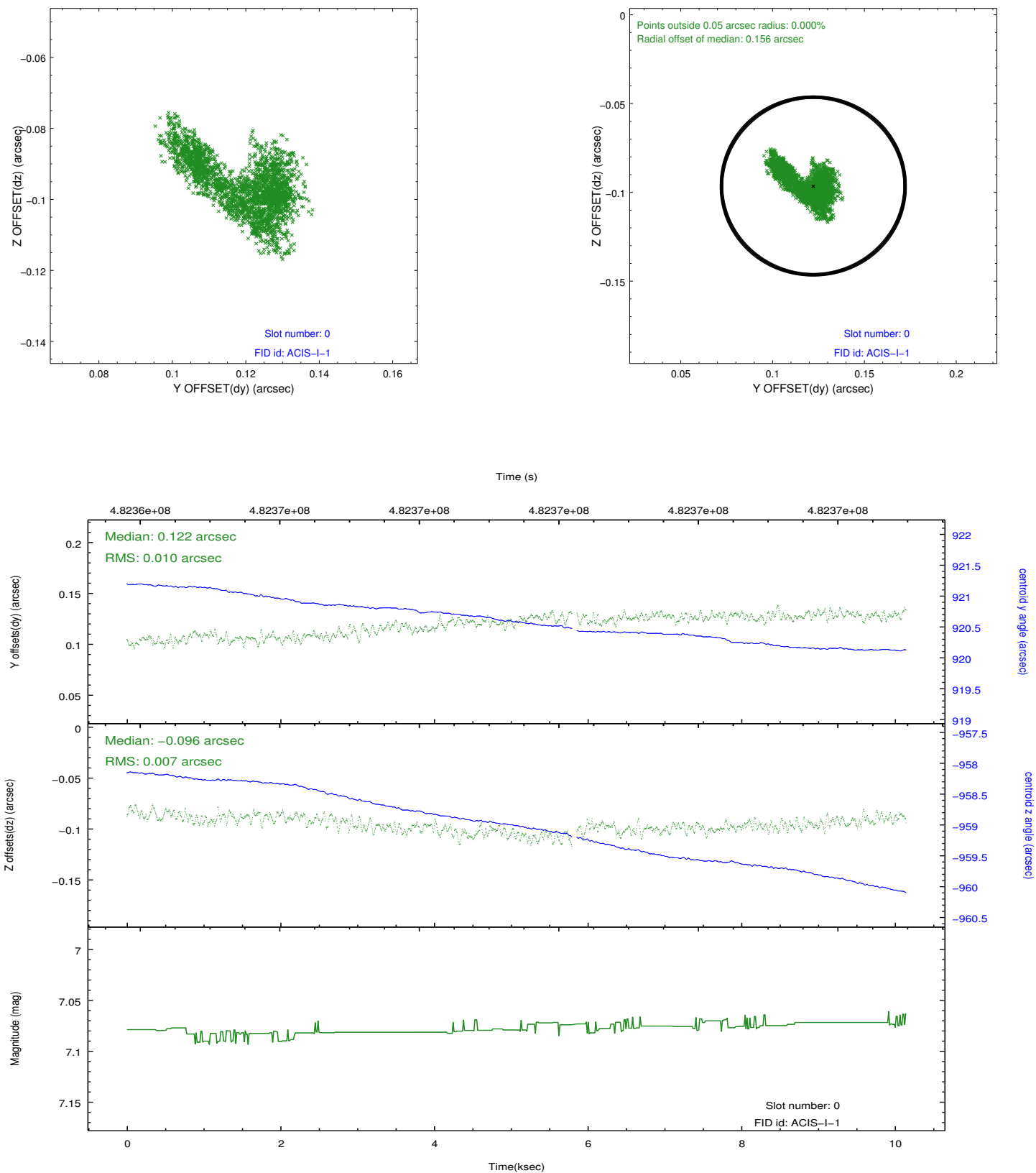


2.4.5 Slot 7

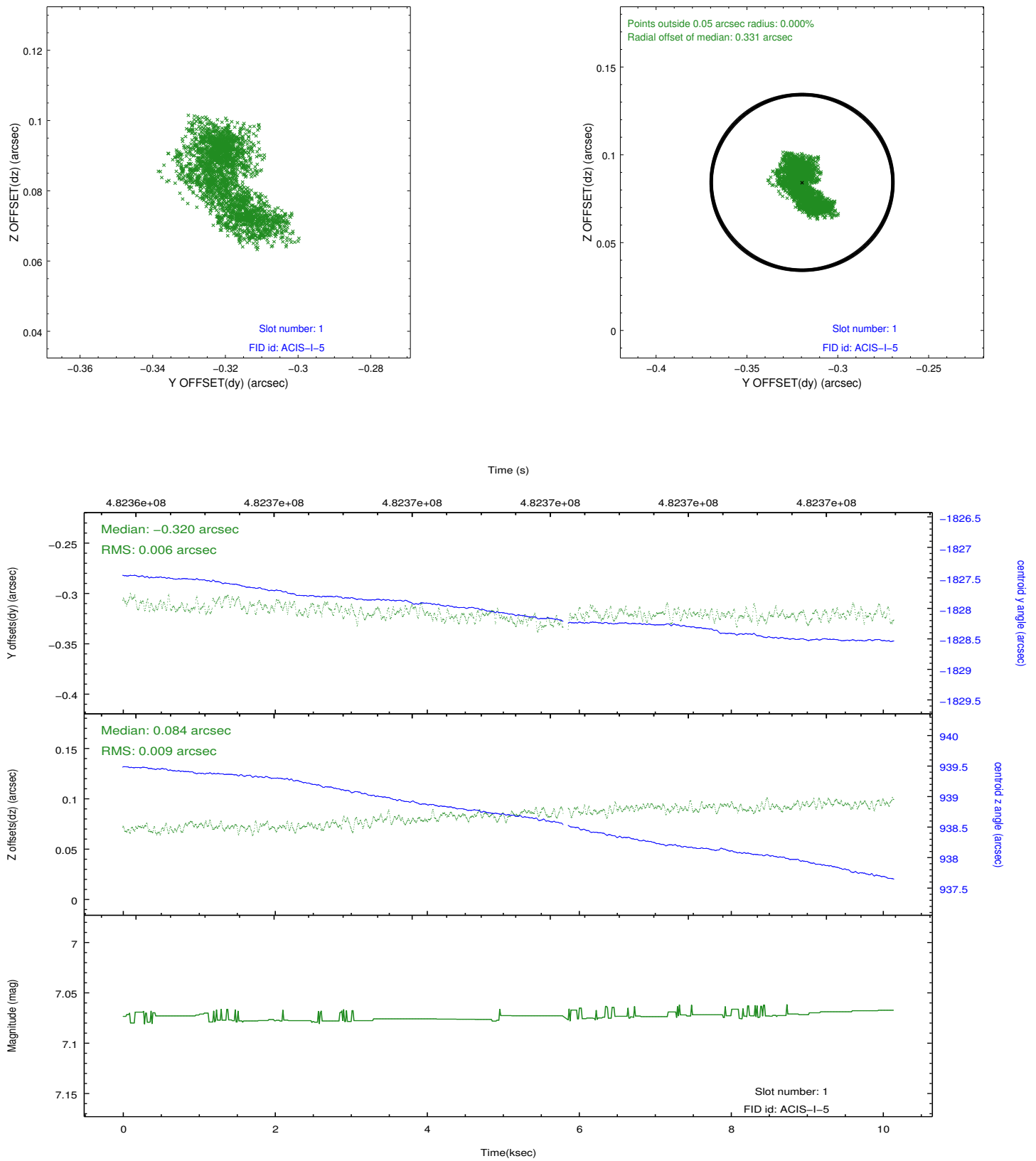


2.5 FID Slots

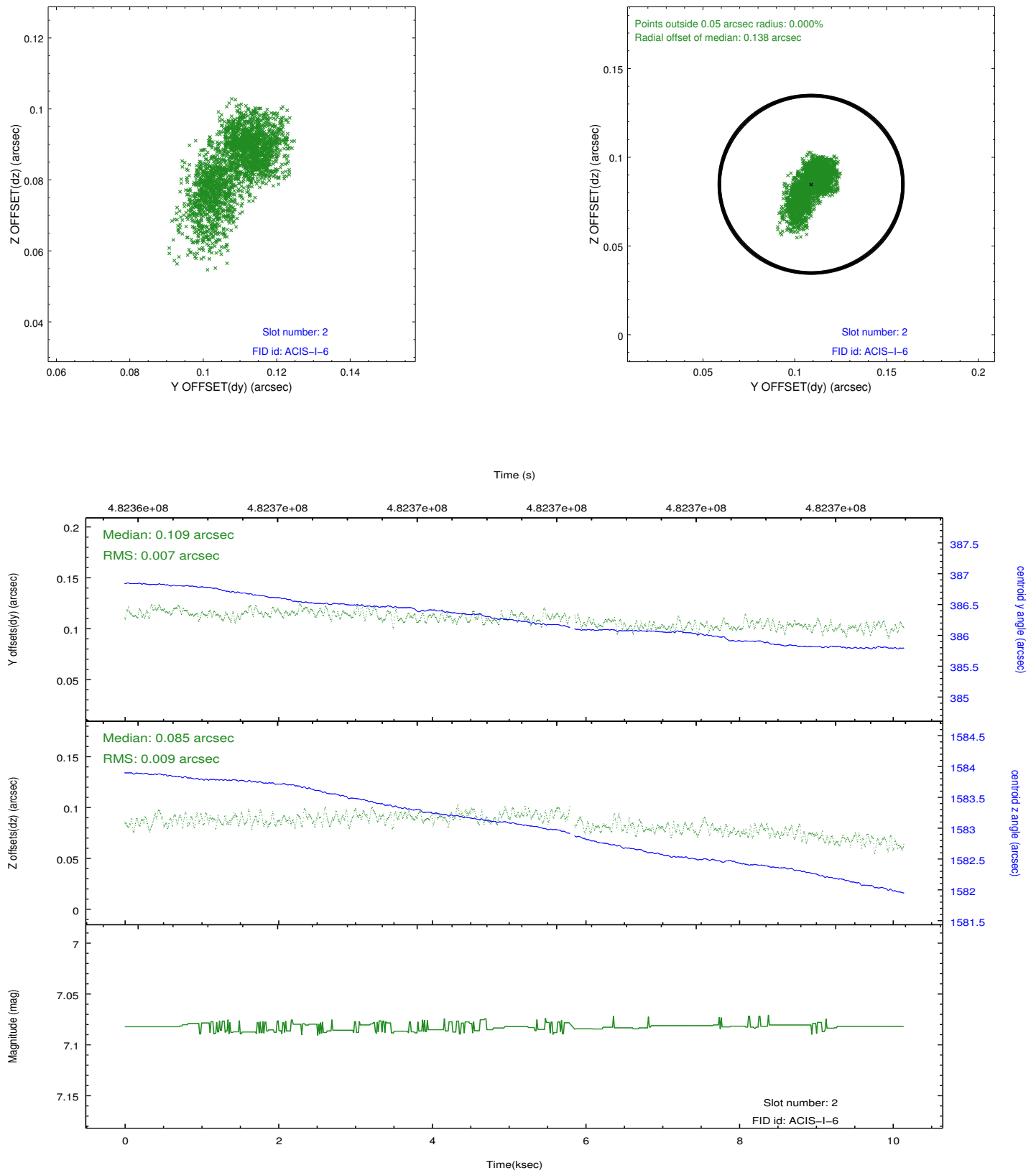
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.021051698625

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.