

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16633 - L2 Version 1
Chandra X-Ray Center

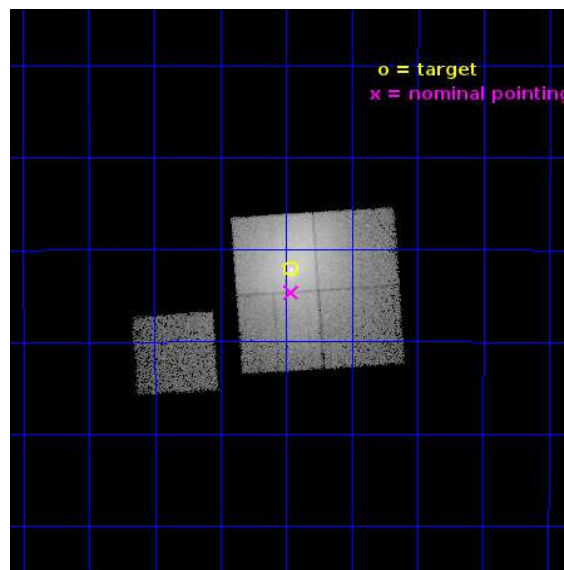
L2 Processing Date : Aug 4 2014

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1 Front

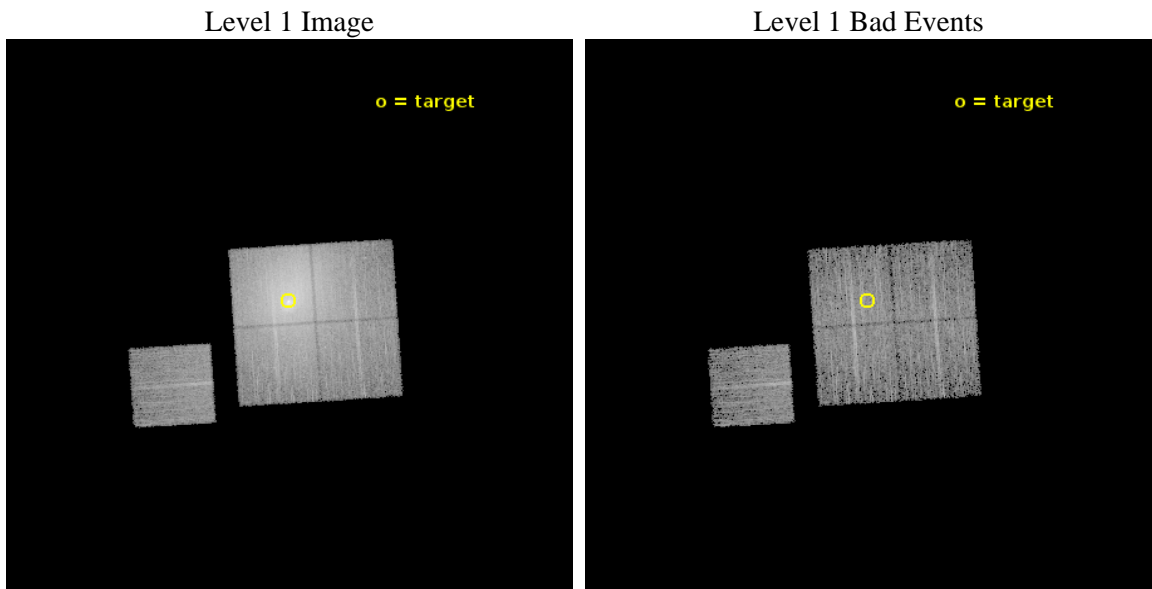
seq_num	801396	Sequence number
obs_id	16633	Observation id
title	A deep study of ram-pressure stripping, metal ridges, and AGN feedback in the Ophiuchus Cluster	Proposal title
observer	Steven Allen	Principal investigator
object	Ophiuchus Cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.115417	Observer's specified target RA [deg]
dec_targ	-23.368611	Observer's specified target Dec [deg]
ra_nom	258.11490703226	Nominal RA [deg]
dec_nom	-23.41061486979	Nominal Dec [deg]
roll_nom	266.20848120595	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9581.5769577026	Sum of GTIs [s]
livetime	9456.3866008959	Livetime [s]
ontime0	9581.4538376927	Sum of GTIs [s]
ontime1	9581.494877696	Sum of GTIs [s]
ontime2	9581.5359176993	Sum of GTIs [s]
ontime3	9581.5769577026	Sum of GTIs [s]
ontime6	9581.4127976894	Sum of GTIs [s]
l2events	278634	Number of level 2 events



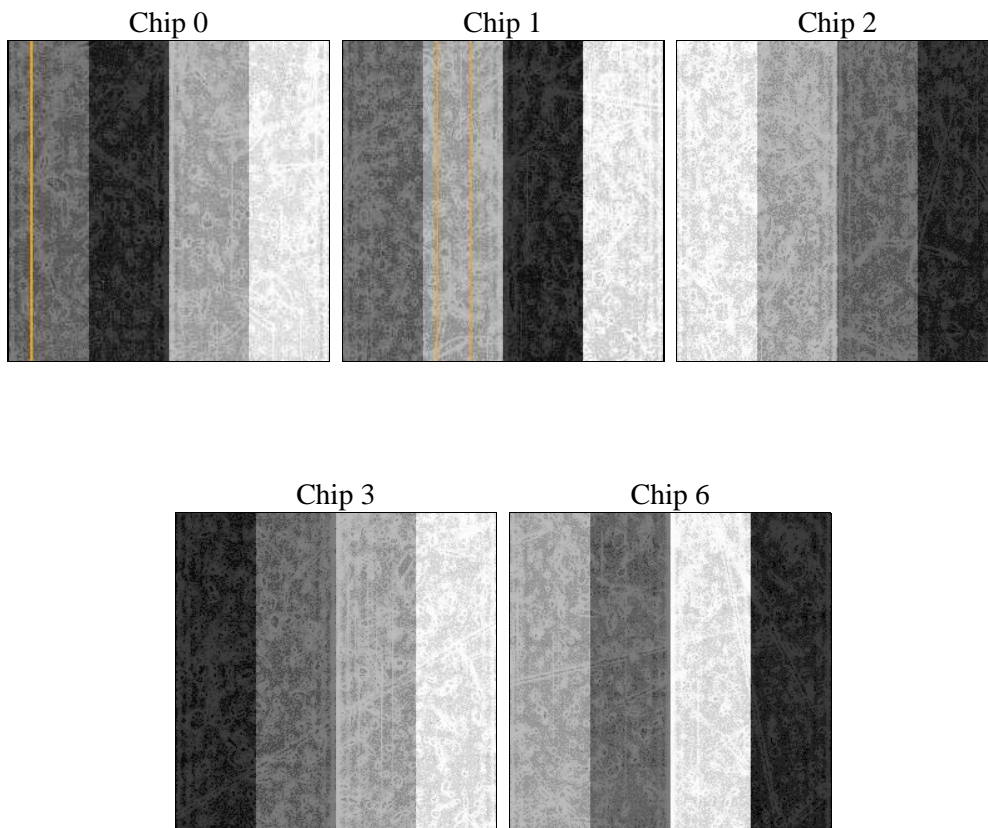
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	9581.5769577026	Sum of GTIs [s]
caldsver	4.6.2	 	ontime0	9581.4538376927	Sum of GTIs [s]
date	2014-08-04T18:31:39	Date and time of file creation	ontime1	9581.494877696	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9581.5359176993	Sum of GTIs [s]
			ontime3	9581.5769577026	Sum of GTIs [s]
			ontime6	9581.4127976894	Sum of GTIs [s]
			l1events	499708	Number of level 1 events

2.1.4 Events

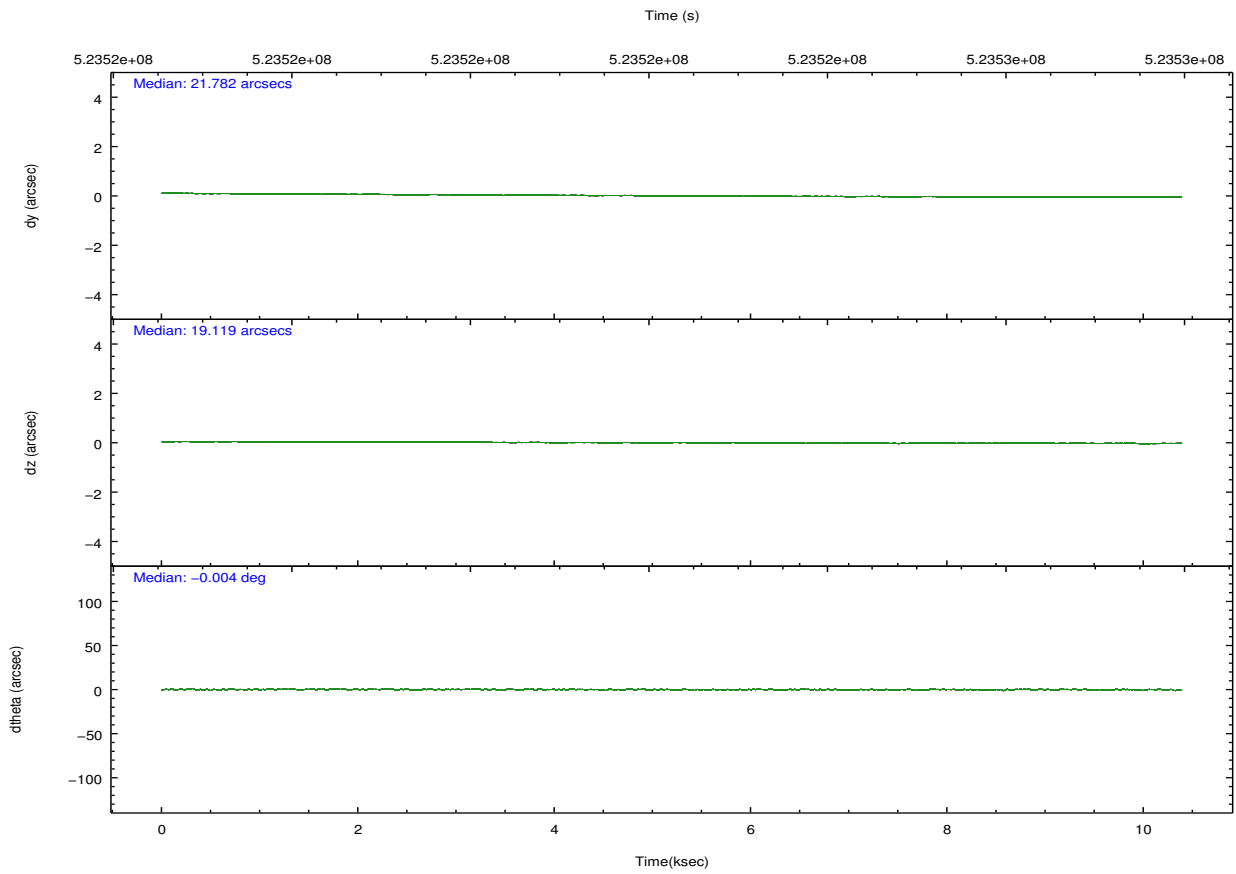
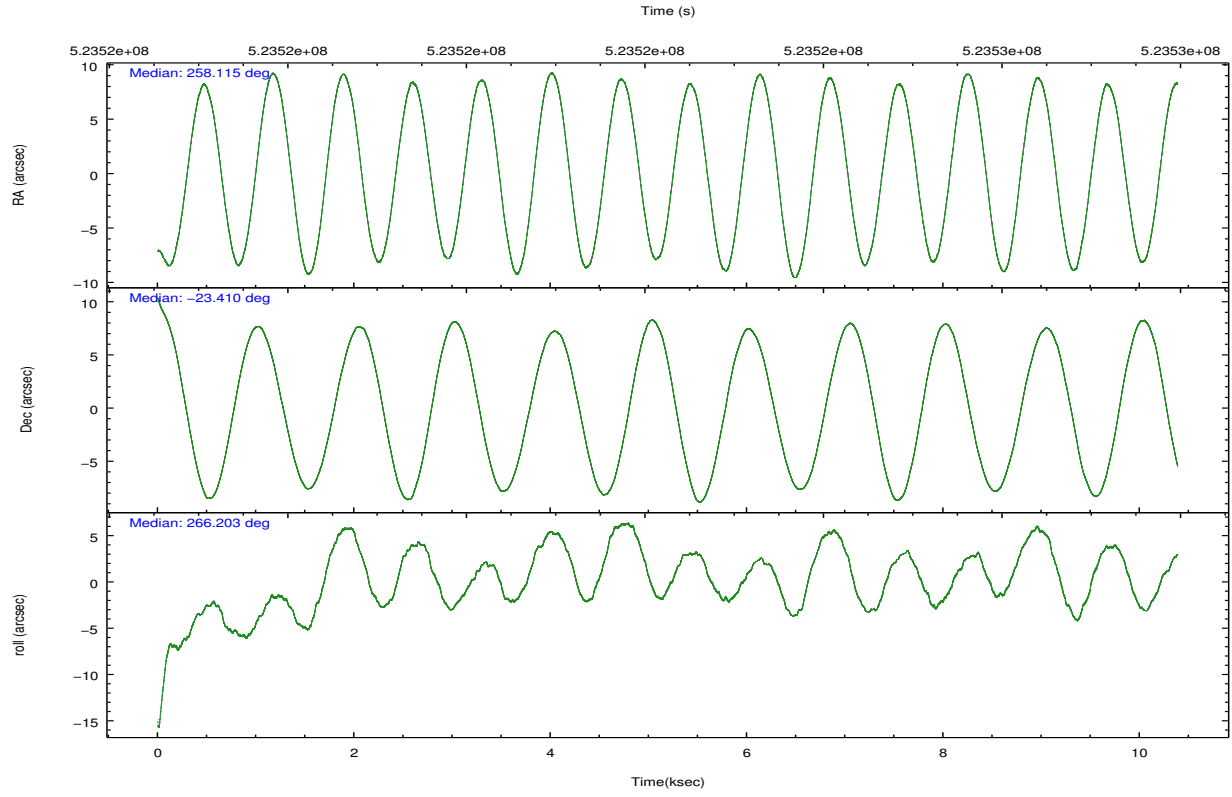
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	63340	97623	86656	201460	50629
rejected events	38379	39616	41974	45073	40311
rejected %	60%	40%	48%	22%	79%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	16906	42015	32979	119764	5603
	26%	43%	38%	59%	11%
grade 1 events	74	143	172	513	38
	0%	0%	0%	0%	0%
grade 2 events	3669	7763	5380	17949	1751
	5%	7%	6%	8%	3%
grade 3 events	1275	2453	1989	6102	701
	2%	2%	2%	3%	1%
grade 4 events	1225	2446	1923	6053	734
	1%	2%	2%	3%	1%
grade 5 events	2409	2614	2368	3142	2449
	3%	2%	2%	1%	4%
grade 6 events	1900	3371	2439	6608	1541
	2%	3%	2%	3%	3%
grade 7 events	35882	36818	39406	41329	37812
	56%	37%	45%	20%	74%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	258.101544	258.1149070322637	CCD I2 on	Y	Y
[deg] Pointing Dec	-23.385932	-23.41061486979043	CCD I3 on	Y	Y
[deg] Pointing Roll	265.994491	266.2084812059461	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	-227.742463	-227.7366227540986	CCD S3 on	N	N
[mm] SIM translation stage offset	-5.85	-5.855830248831126	CCD S4 on	N	N
[s] Observation start time (MET)	523517947.184000	523516657.37001	CCD S5 on	N	N
Observation start date	2014-08-04T05:38:00	2014-08-04T05:17:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	523527447.184000	523528290.60815	On-chip summing requested	N	N
Observation end date	2014-08-04T08:16:20	2014-08-04T08:31:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



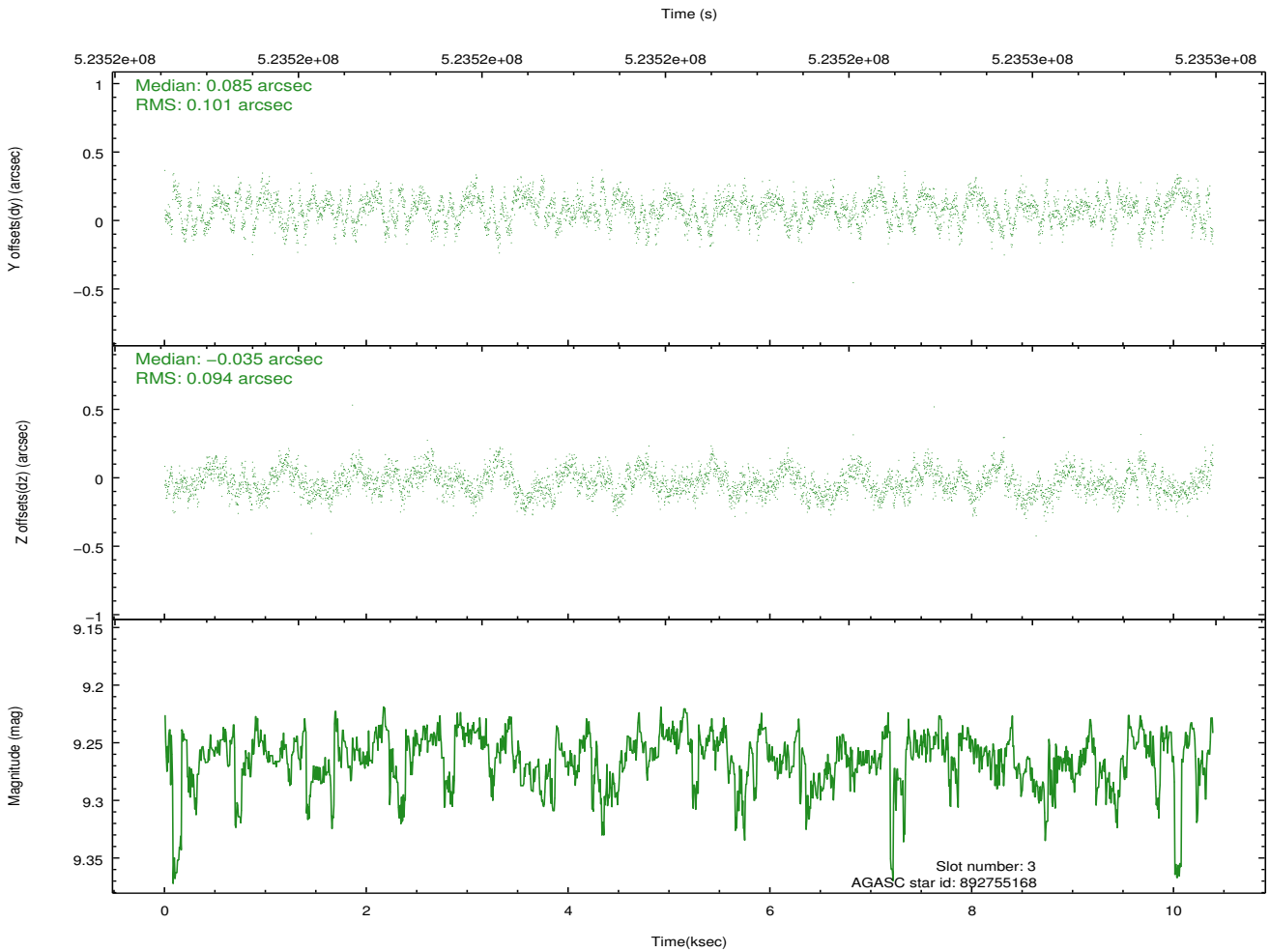
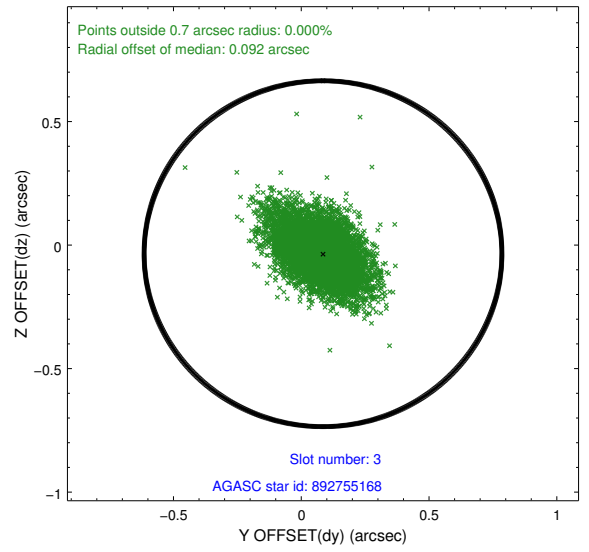
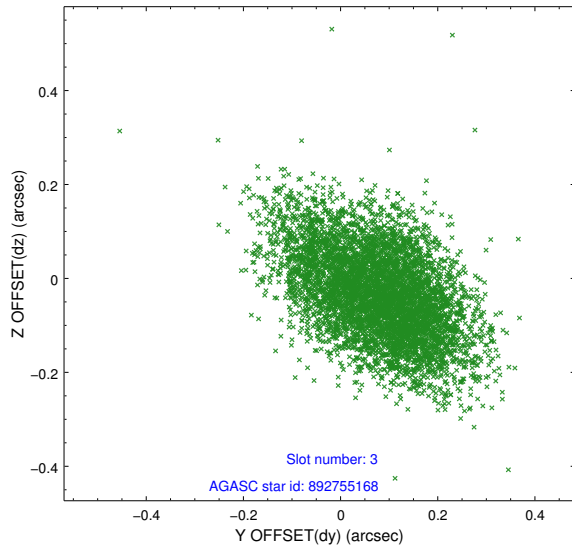
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.15	2534	0.092	-0.088	0.006	0.011	0.000000	0.000000	917.50	-963.07
1	FID	ACIS-I-5	7.14	2534	-0.307	0.057	0.006	0.010	0.000000	0.000000	-1830.80	934.16
2	FID	ACIS-I-6	7.15	2533	0.124	0.101	0.007	0.011	0.000000	0.000000	382.42	1579.37
3	GUIDE	892755168	9.26	5067	0.085	-0.035	0.145	0.241	257.345207	-23.908184	2057.05	-2351.22
4	GUIDE	892866064	8.53	5067	-0.232	0.036	0.070	0.111	258.346240	-23.232516	-606.01	768.50
5	GUIDE	892867312	9.12	5065	0.428	0.083	0.121	0.192	258.441623	-24.052318	2317.27	1283.48
6	GUIDE	892867776	8.50	5067	-0.201	-0.060	0.091	0.145	258.697515	-24.060278	2289.76	2124.74
7	GUIDE	892865960	8.48	5067	-0.073	-0.013	0.124	0.184	257.518652	-24.013697	2393.54	-1753.42

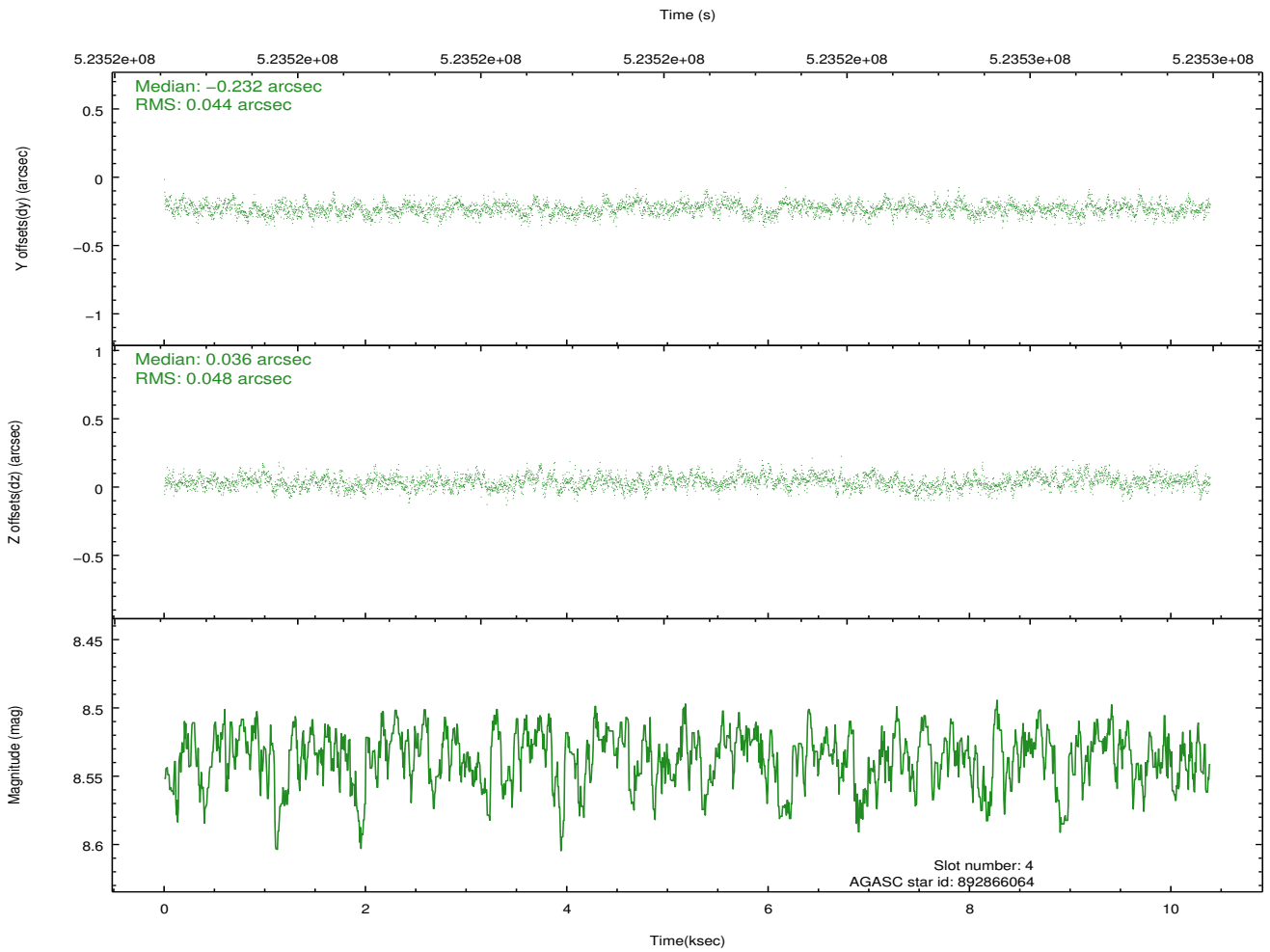
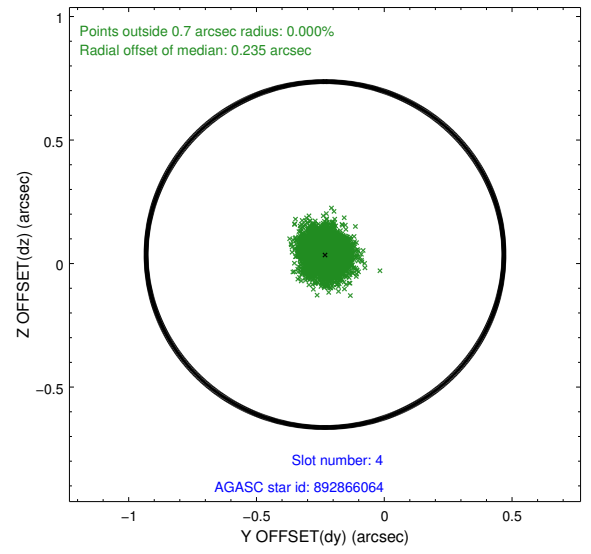
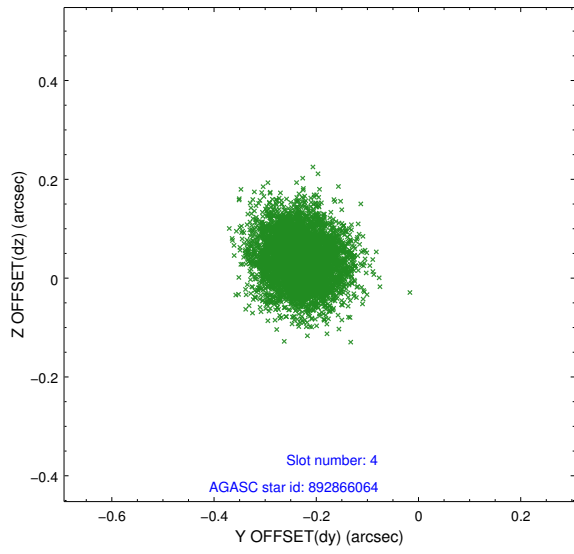
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2.4 Star Slots

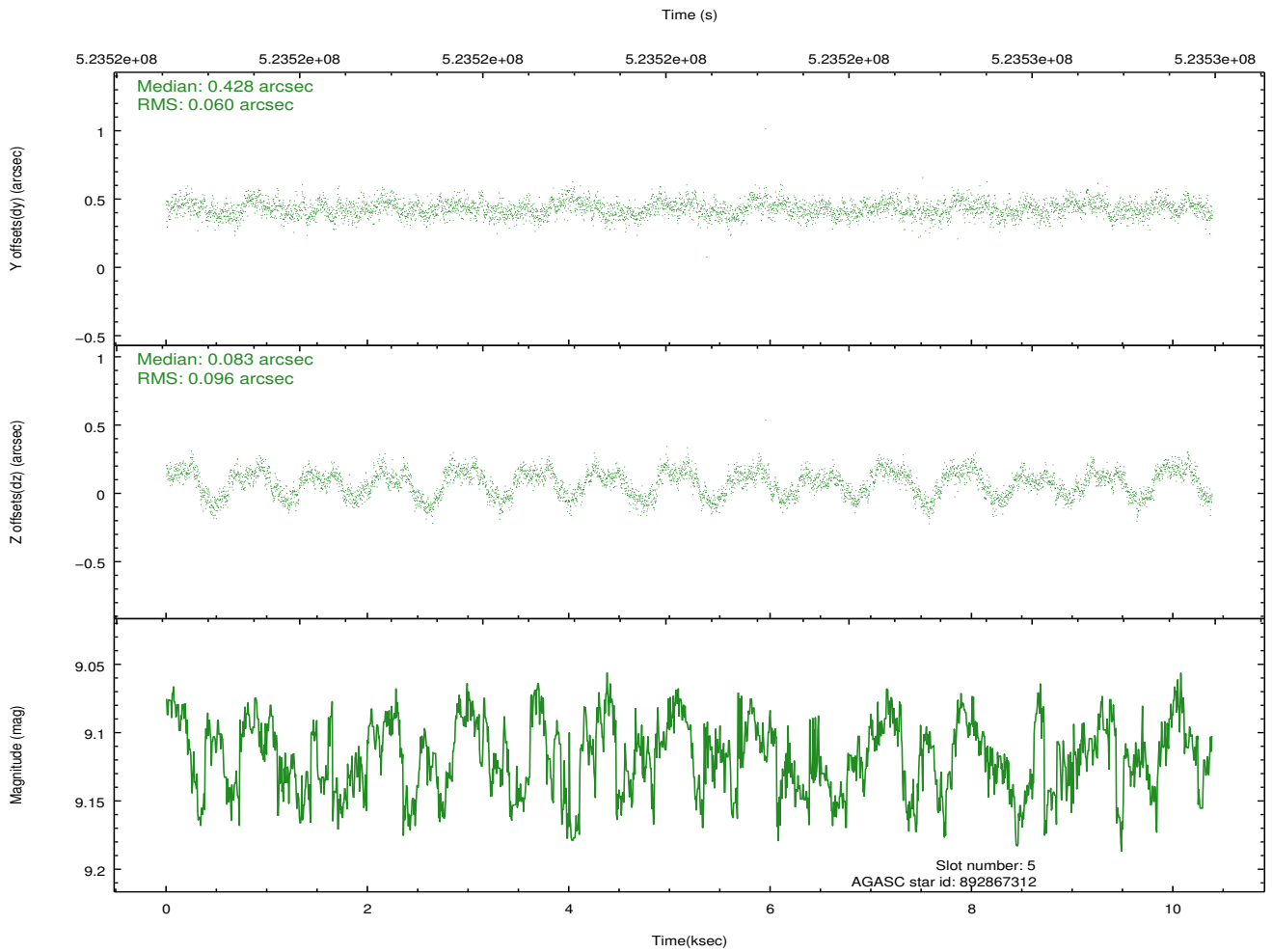
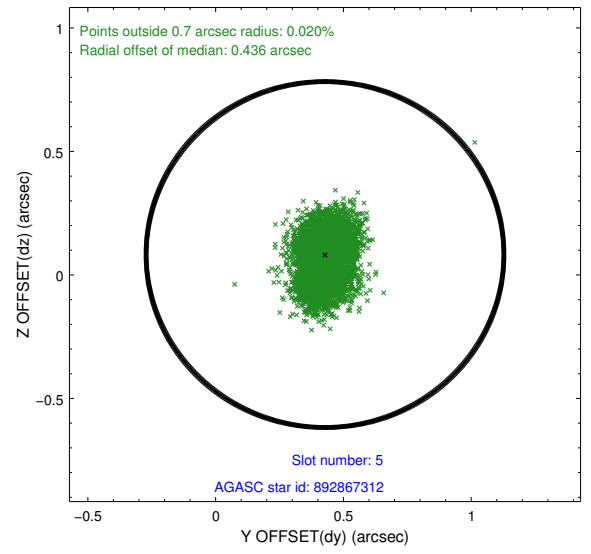
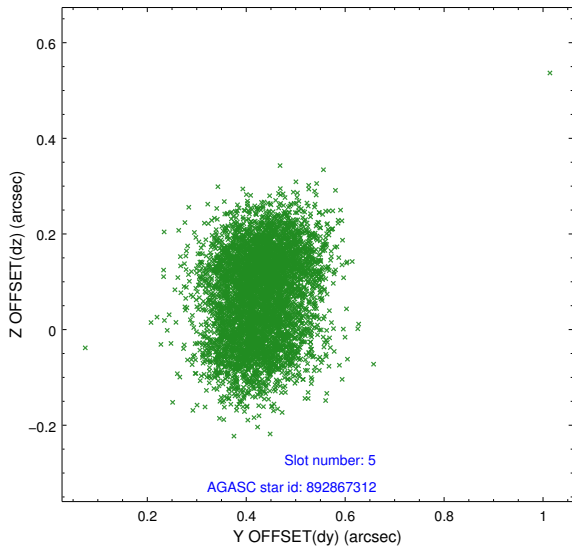
2.4.1 Slot 3



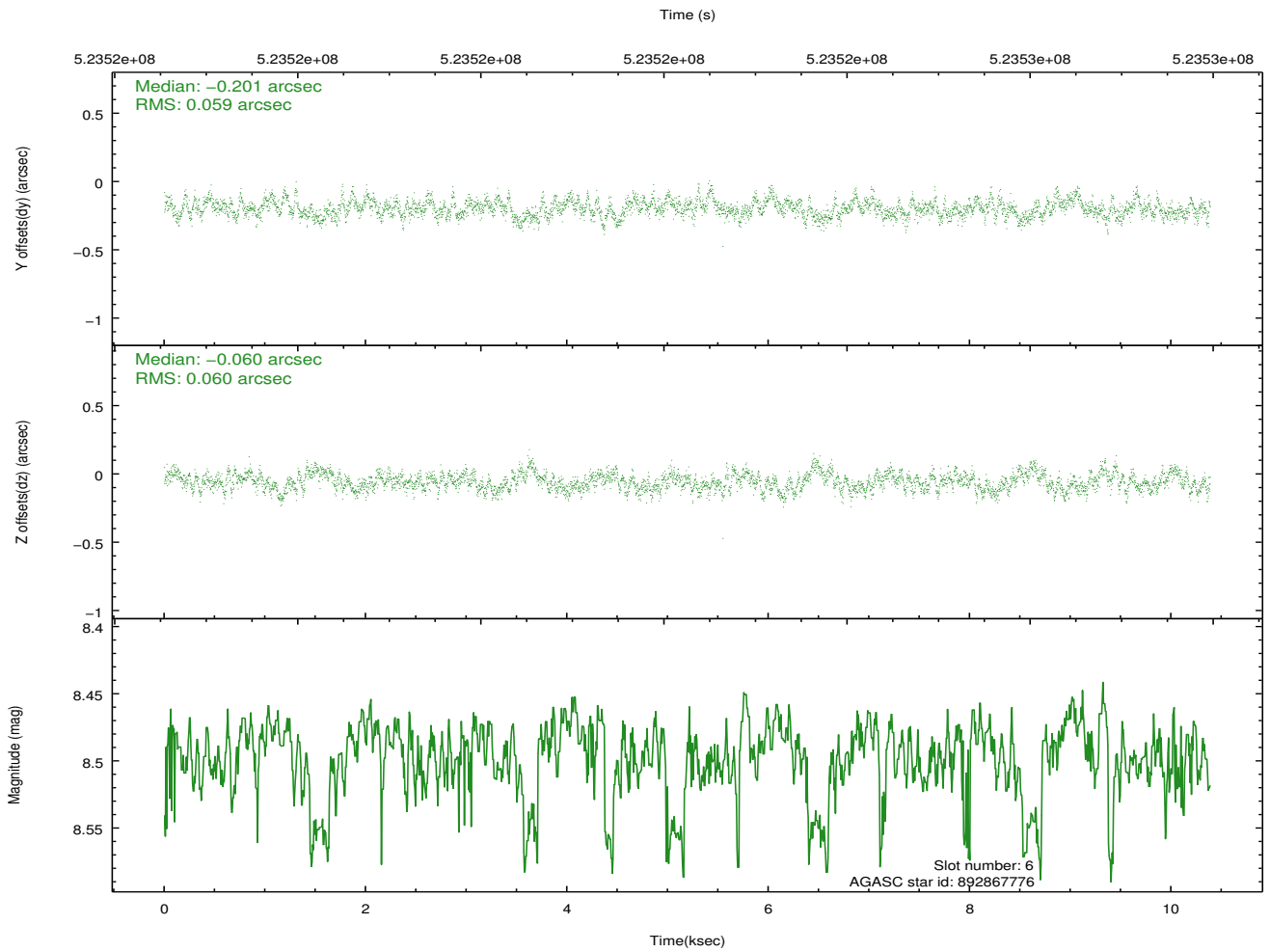
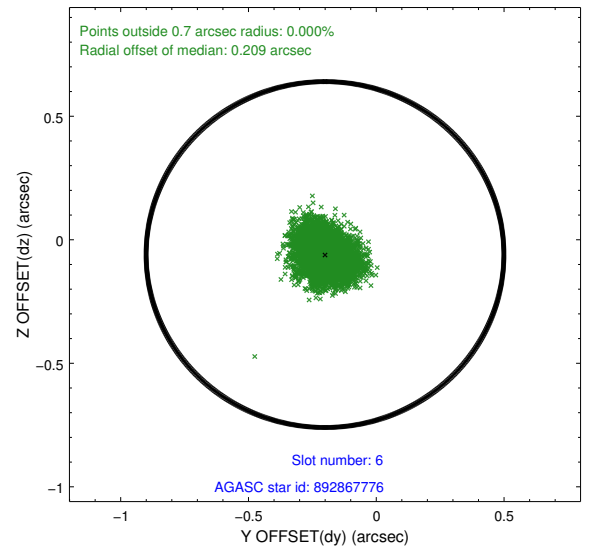
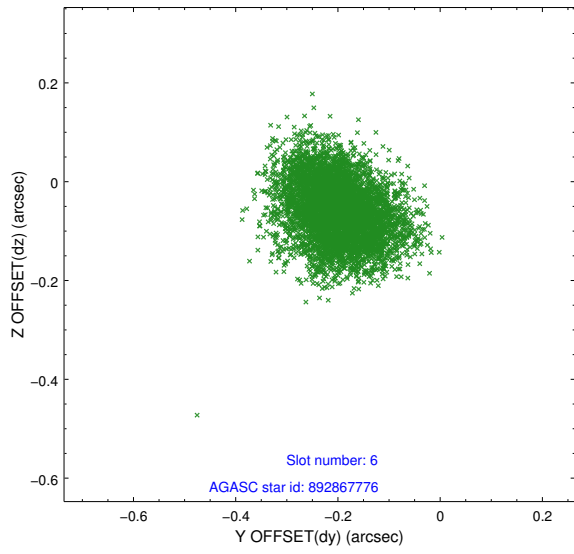
2.4.2 Slot 4



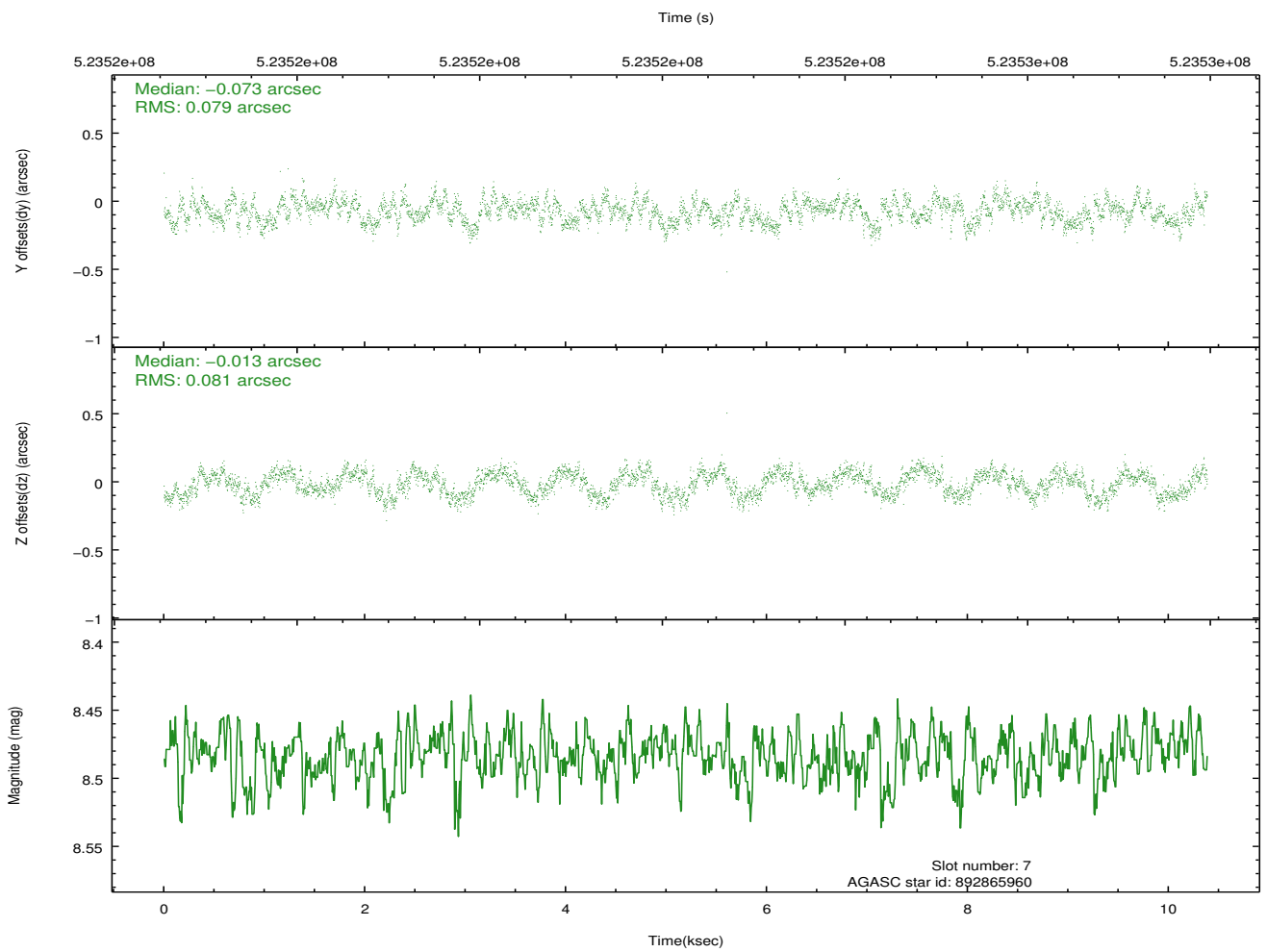
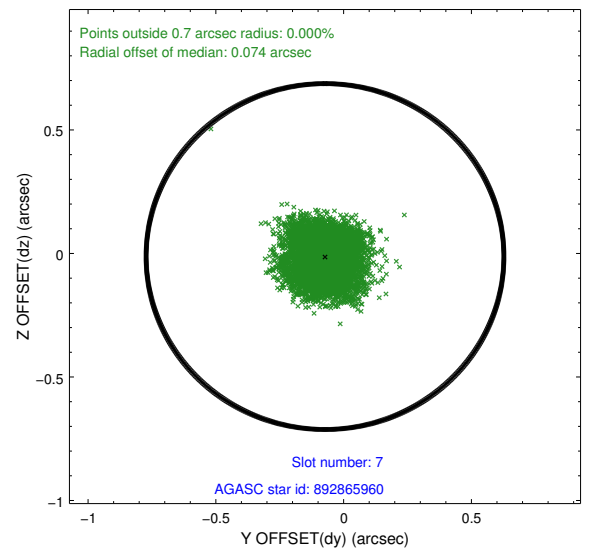
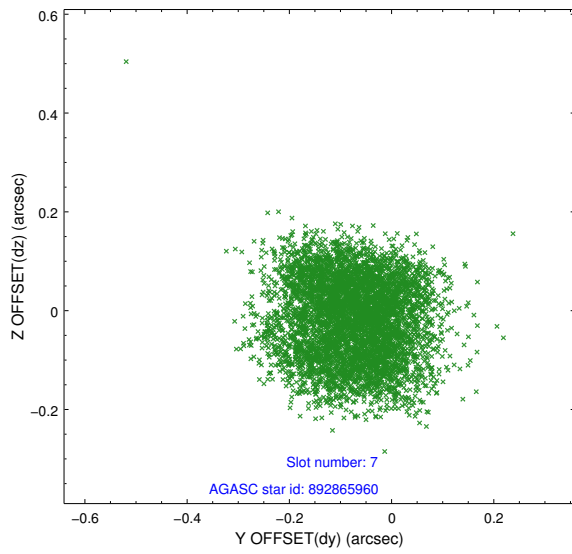
2.4.3 Slot 5



2.4.4 Slot 6

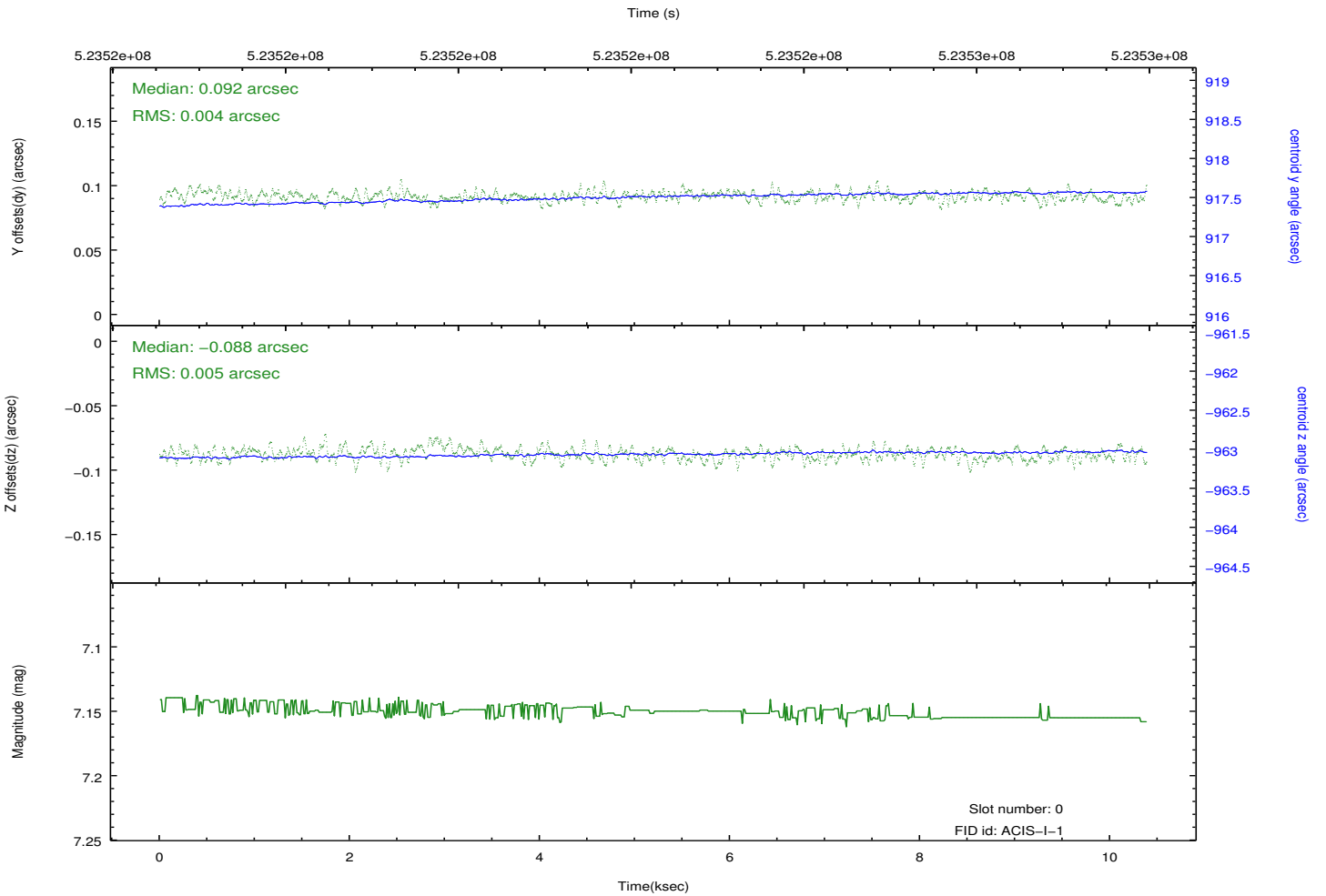
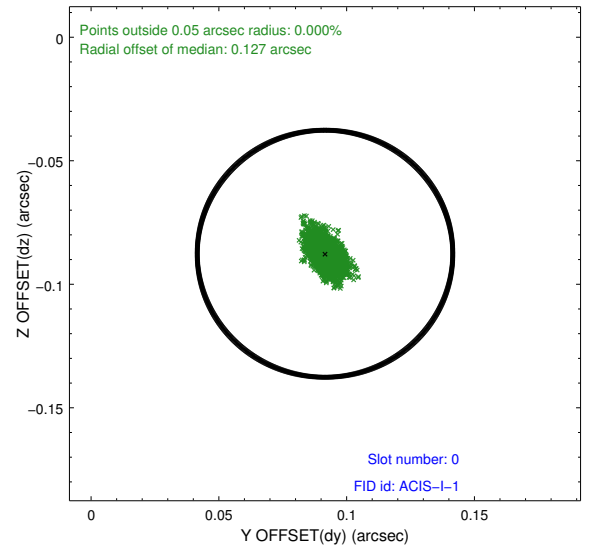
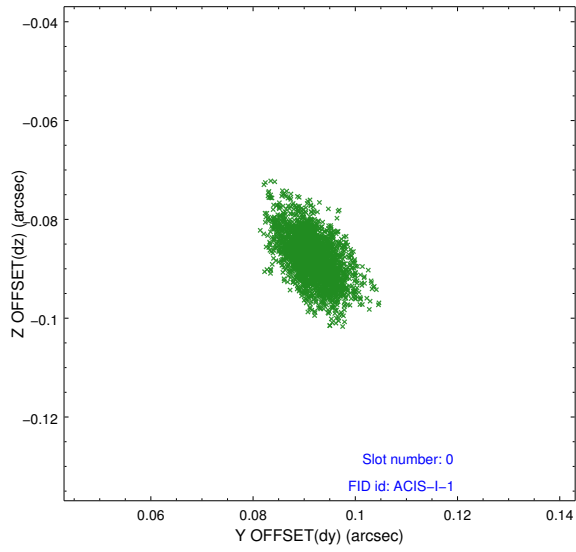


2.4.5 Slot 7

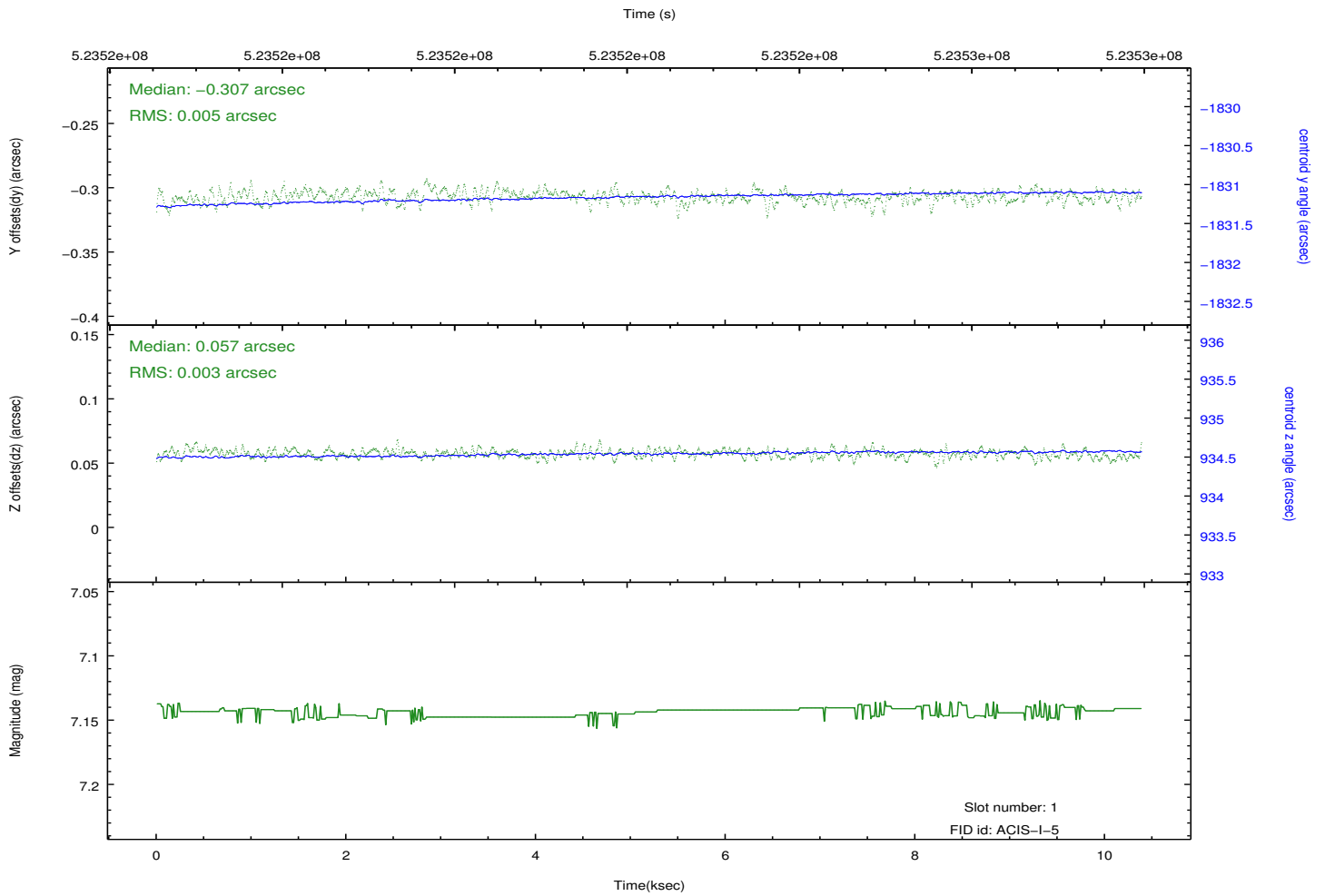
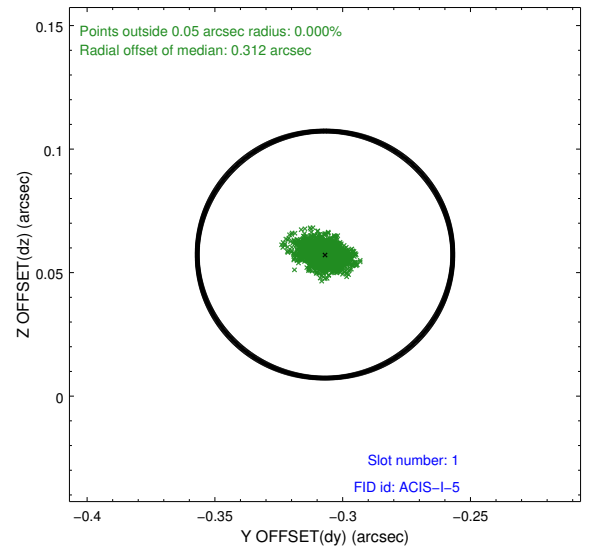
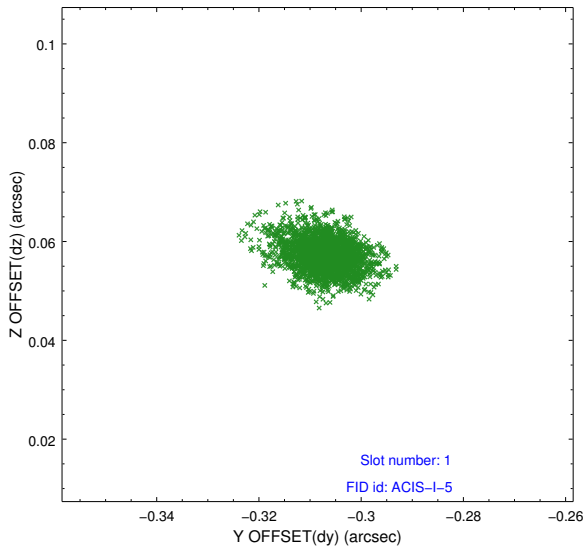


2.5 FID Slots

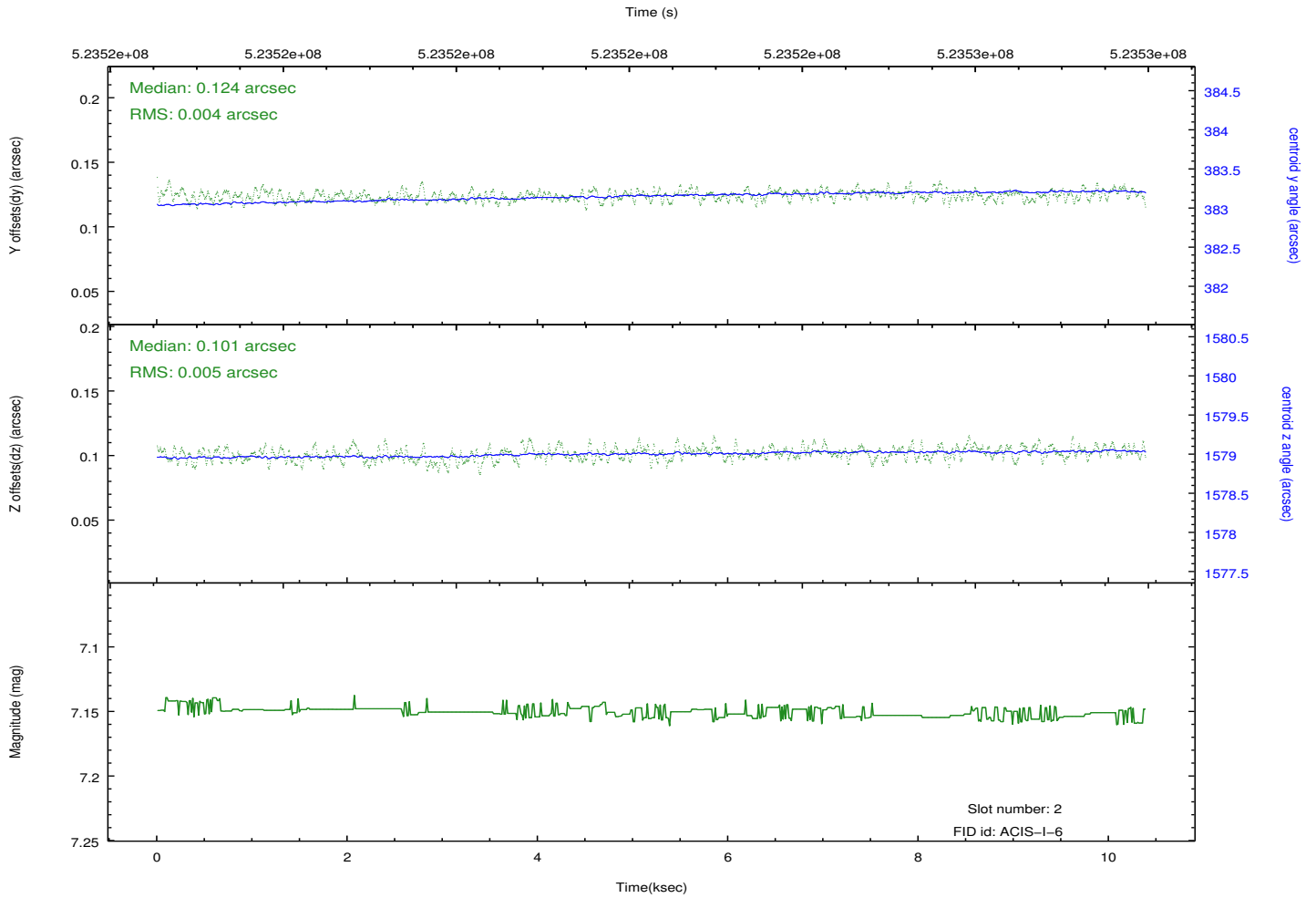
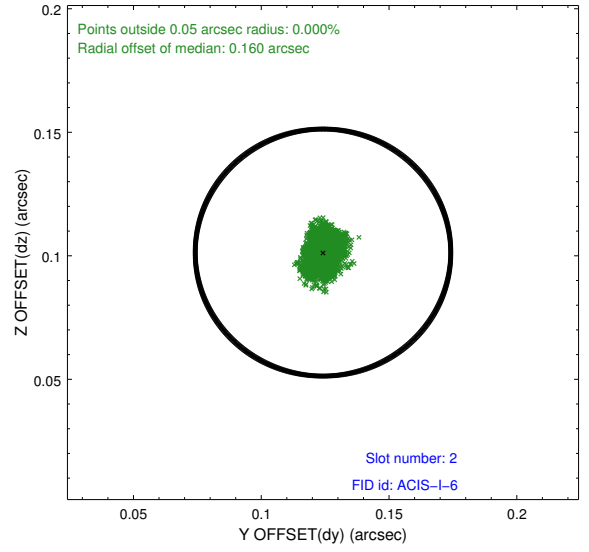
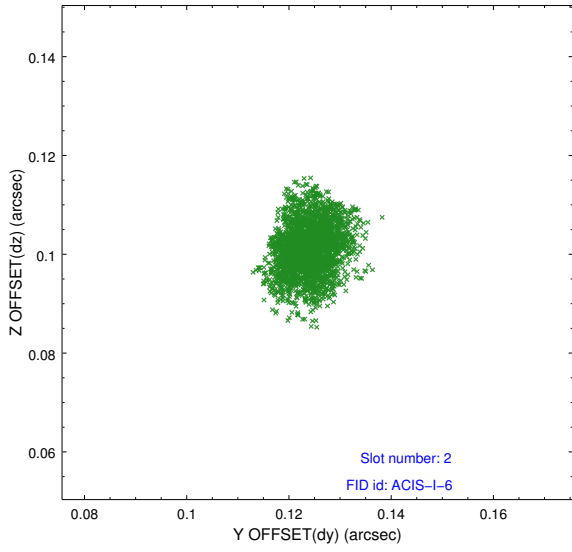
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.08.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.5815769577026

A.2 Comments

Joint Proposal: NRAO