

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13288 - L2 Version 3
Chandra X-Ray Center

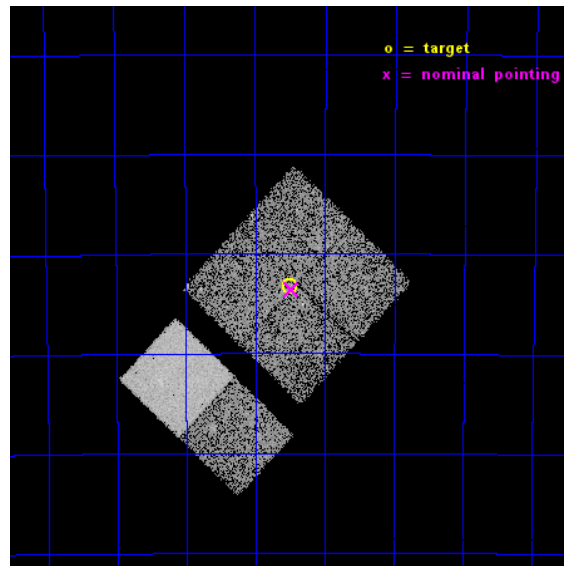
L2 Processing Date : Nov 27 2014

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1 Front

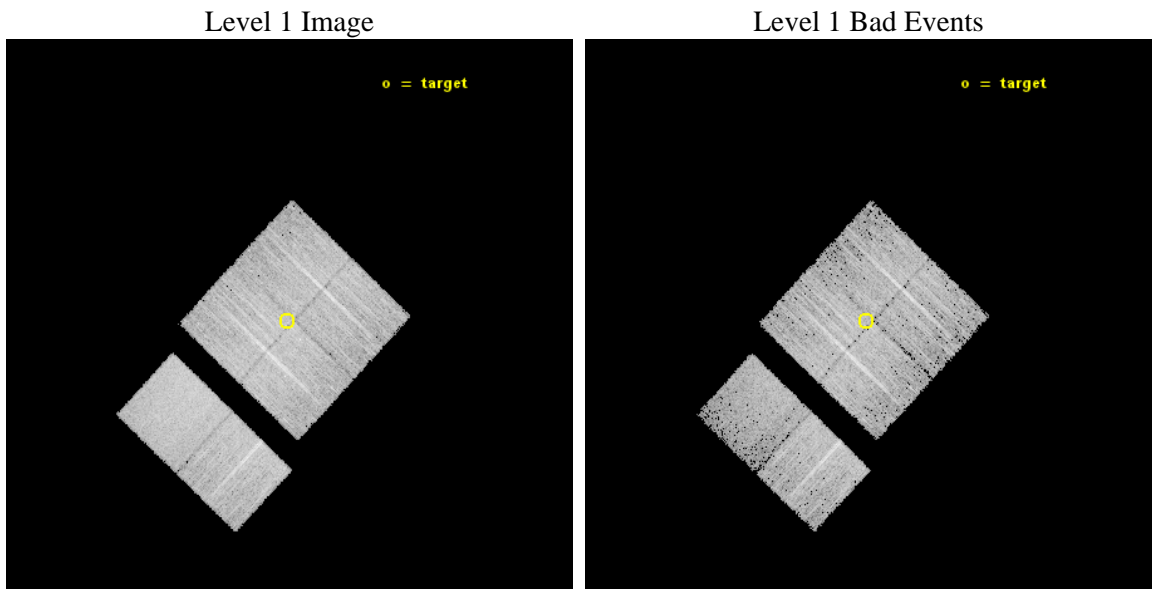
seq_num	501556	Sequence number
obs_id	13288	Observation id
title	Snap-shot survey of new galactic gamma-ray sources	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PSR J1459-60	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	224.874583	Observer's specified target RA [deg]
dec_targ	-60.887778	Observer's specified target Dec [deg]
ra_nom	224.87020111421	Nominal RA [deg]
dec_nom	-60.893052130604	Nominal Dec [deg]
roll_nom	223.40779693104	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9967.9999629259	Sum of GTIs [s]
livetime	9841.7791453864	Livetime [s]
ontime0	9967.9999629259	Sum of GTIs [s]
ontime1	9967.9999629259	Sum of GTIs [s]
ontime2	9967.9999629259	Sum of GTIs [s]
ontime3	9967.9999629259	Sum of GTIs [s]
ontime6	9967.9999629259	Sum of GTIs [s]
ontime7	9967.9999629259	Sum of GTIs [s]
l2events	55643	Number of level 2 events



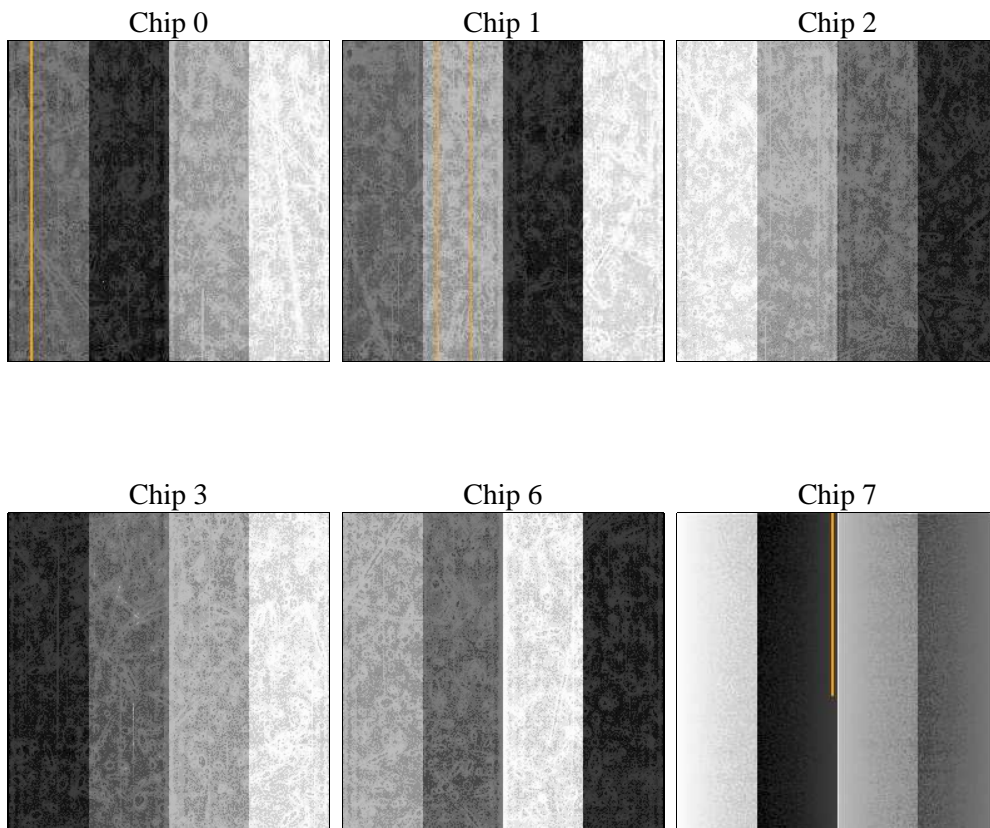
2 OBI

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	9967.9999629259	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	9967.9999629259	Sum of GTIs [s]
date	2014-11-27T16:47:08	Date and time of file creation	ontime1	9967.9999629259	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	9967.9999629259	Sum of GTIs [s]
			ontime3	9967.9999629259	Sum of GTIs [s]
			ontime6	9967.9999629259	Sum of GTIs [s]
			ontime7	9967.9999629259	Sum of GTIs [s]
			l1events	310374	Number of level 1 events

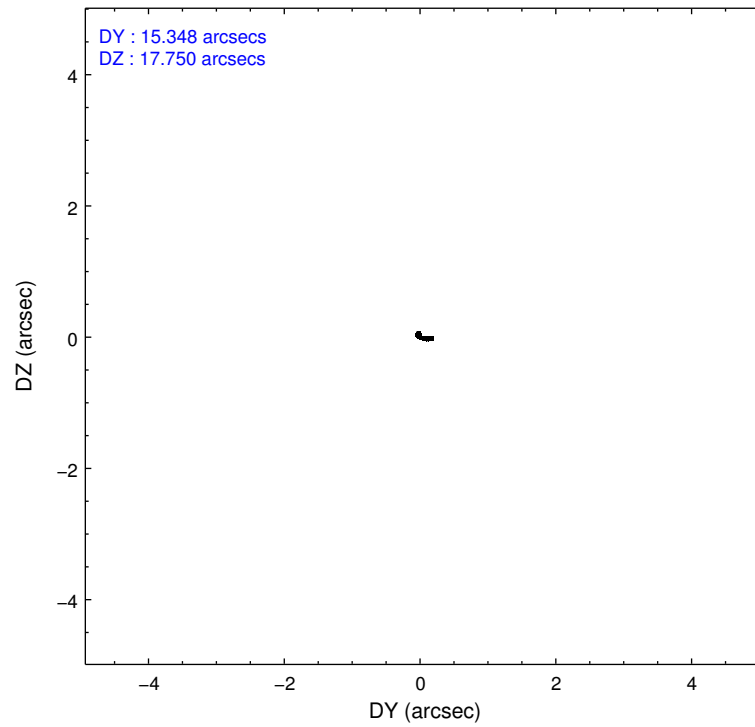
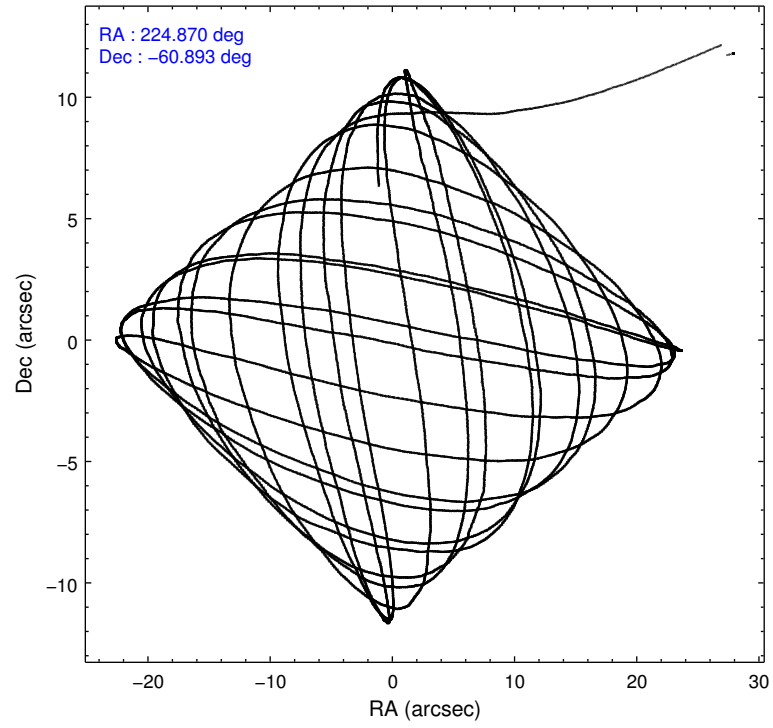
2.1.4 Events

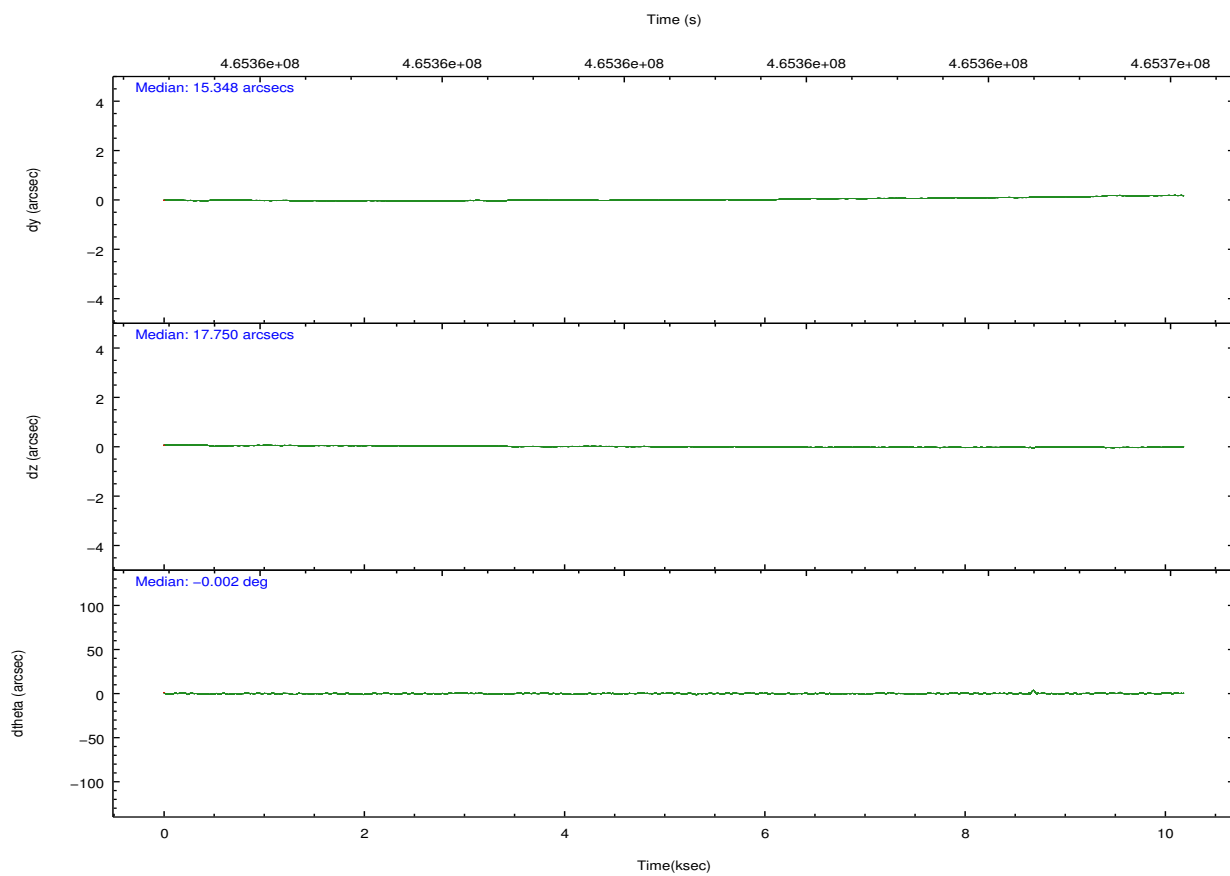
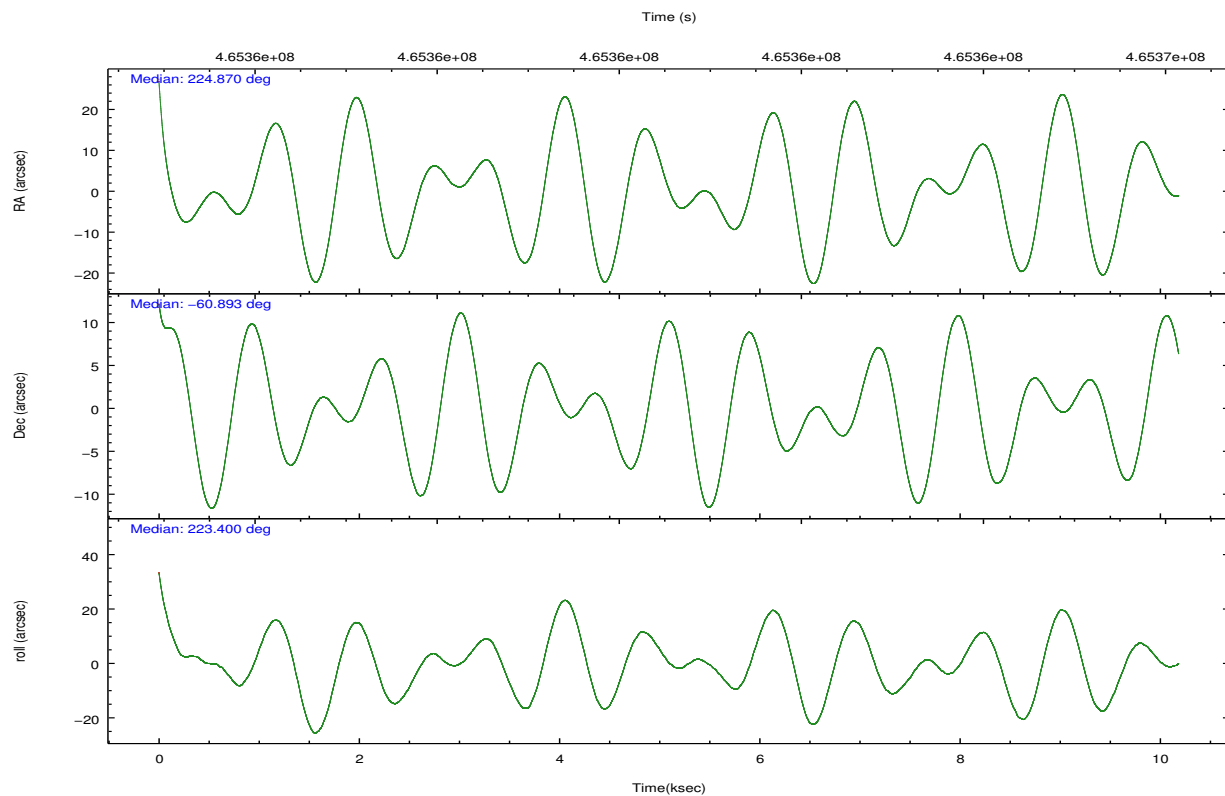
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	47011	46488	52299	52597	52831	59148	grade 0 events	2994	2671	3216	2651	2851	2876
rejected events	39952	39709	45089	46241	45816	30914		6%	5%	6%	5%	5%	4%
rejected %	84%	85%	86%	87%	86%	52%	grade 1 events	34	32	32	33	32	82
								0%	0%	0%	0%	0%	0%
							grade 2 events	1736	1558	1626	1332	1543	6250
								3%	3%	3%	2%	2%	10%
							grade 3 events	579	658	642	603	646	2504
								1%	1%	1%	1%	1%	4%
							grade 4 events	649	603	683	638	662	2505
								1%	1%	1%	1%	1%	4%
							grade 5 events	1971	2162	1754	2330	2277	6124
								4%	4%	3%	4%	4%	10%
							grade 6 events	1104	1293	1049	1137	1320	14165
								2%	2%	2%	2%	2%	23%
							grade 7 events	37944	37511	43297	43873	43500	24642
								80%	80%	82%	83%	82%	41%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	224.886111	224.8702011142082	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.866726	-60.89305213060442	CCD I3 on	Y	Y
[deg] Pointing Roll	223.213016	223.4077969310442	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	O2	Y
[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)	465355640.184000	465354079.30942	CCD S5 on	N	N
Observation start date	2012-09-30T01:26:13	2012-09-30T01:01:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	465365640.184000	465367063.49762	On-chip summing requested	N	N
Observation end date	2012-09-30T04:12:53	2012-09-30T04:37:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



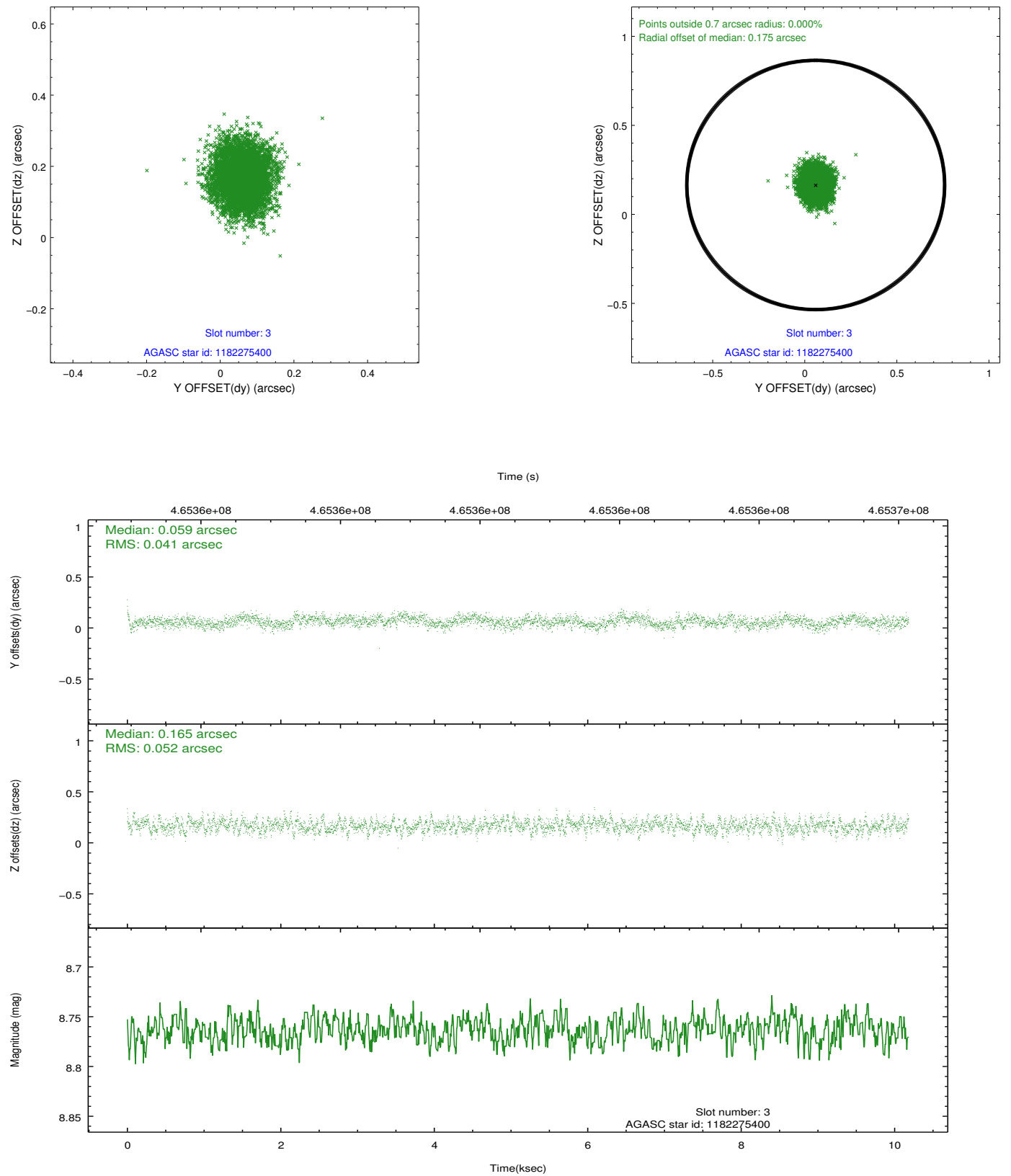


Slot Statistics

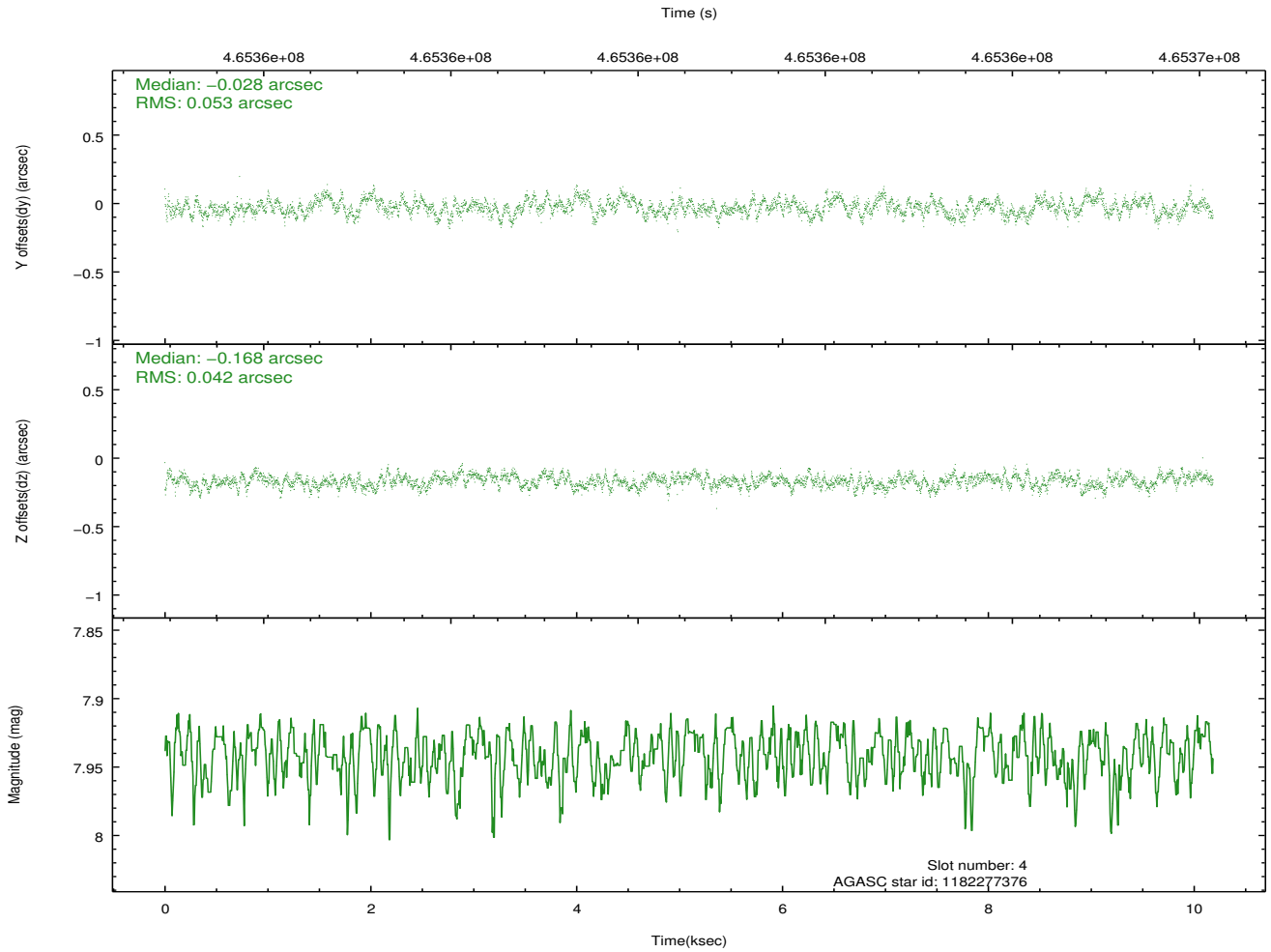
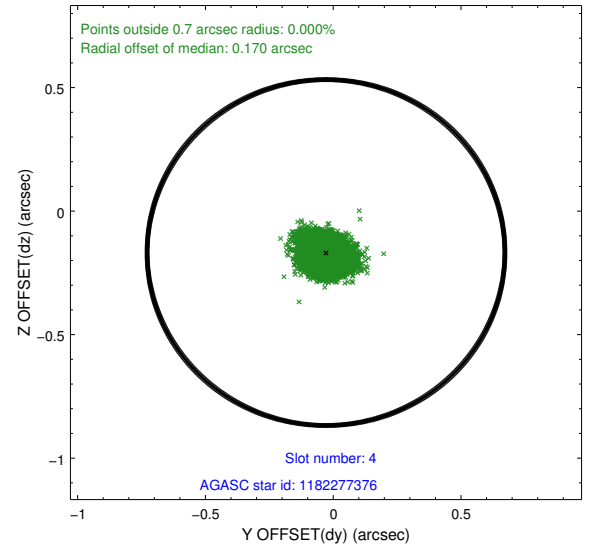
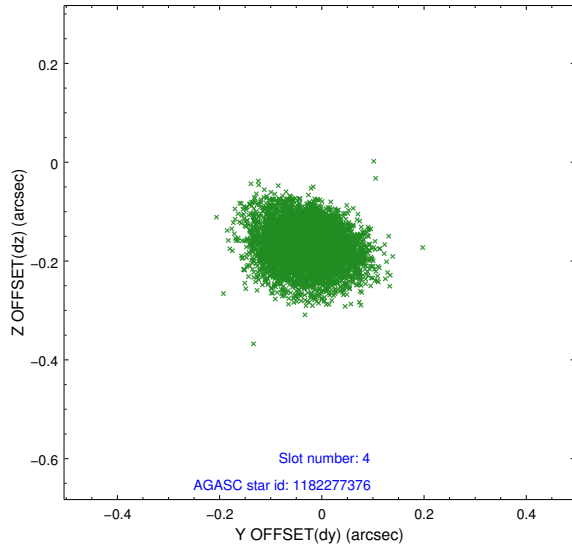
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.05	2484	0.046	0.027	0.006	0.010	0.000000	0.000000	924.11	-841.41
1	FID		ACIS-I-5	7.05	2485	-0.200	0.063	0.006	0.010	0.000000	0.000000	-1823.95	1055.87
2	FID		ACIS-I-6	7.05	2485	0.063	-0.020	0.006	0.010	0.000000	0.000000	389.12	1700.87
3	GUIDE	used	1182275400	8.76	4967	0.059	0.165	0.070	0.113	224.255391	-60.354079	-440.73	-2109.63
4	GUIDE	used	1182277376	7.94	4969	-0.028	-0.168	0.072	0.114	224.064600	-61.267558	2031.73	84.65
5	GUIDE	used	1182283280	9.03	4965	0.098	0.017	0.095	0.156	223.470257	-61.006180	2163.58	-1305.53
6	GUIDE	used	1182289848	8.61	4969	-0.048	-0.041	0.067	0.109	225.543224	-60.813679	-966.88	654.87
7	GUIDE	used	1182288104	8.79	4968	-0.077	0.030	0.085	0.136	225.998925	-60.820953	-1524.99	1229.64

2.4 Star Slots

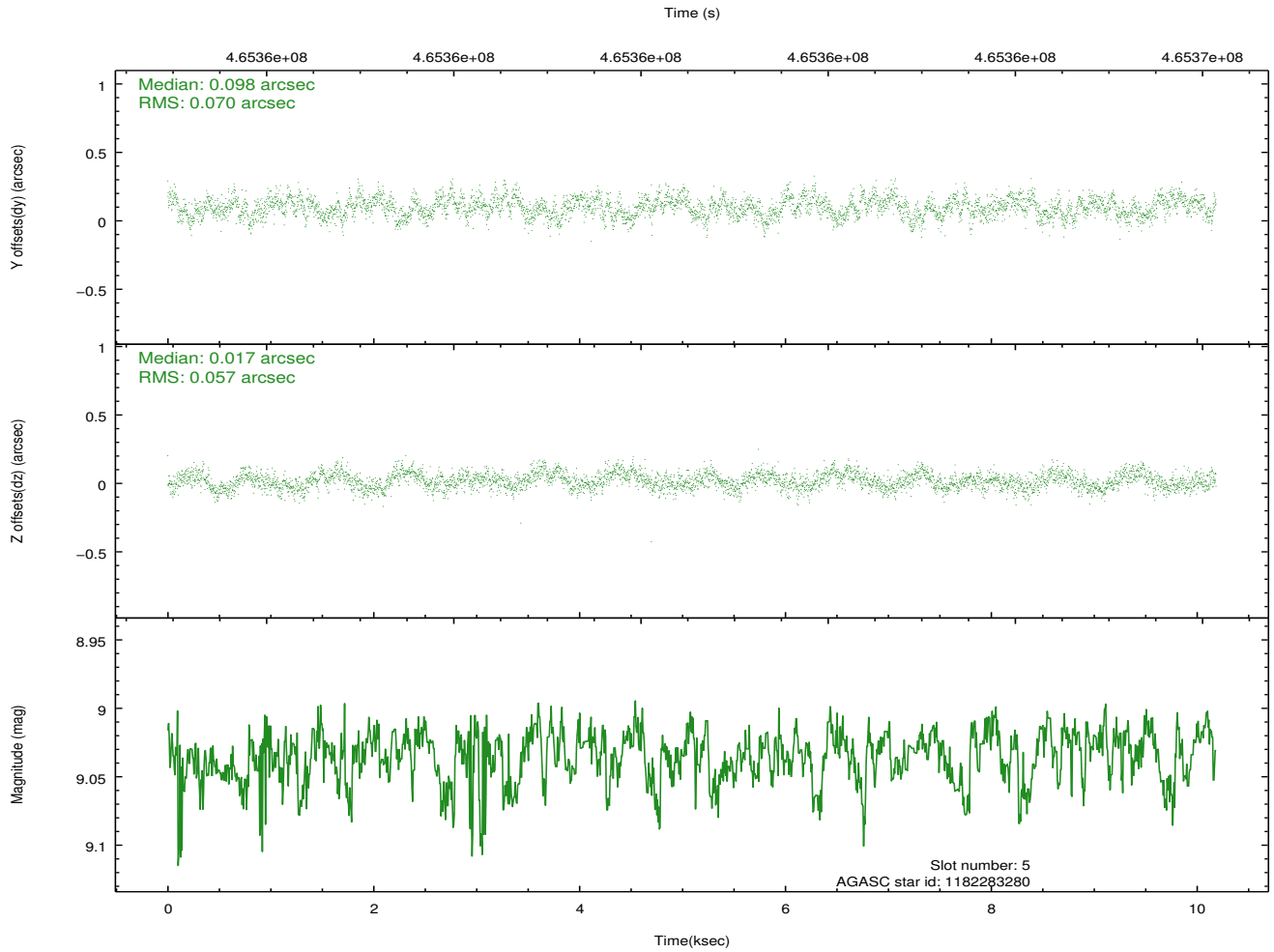
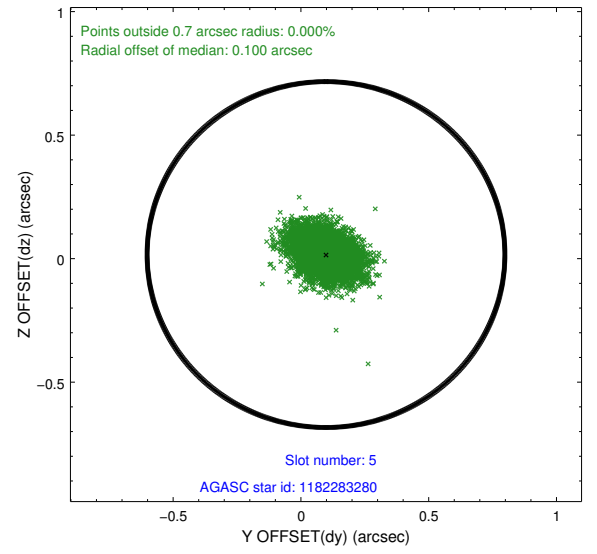
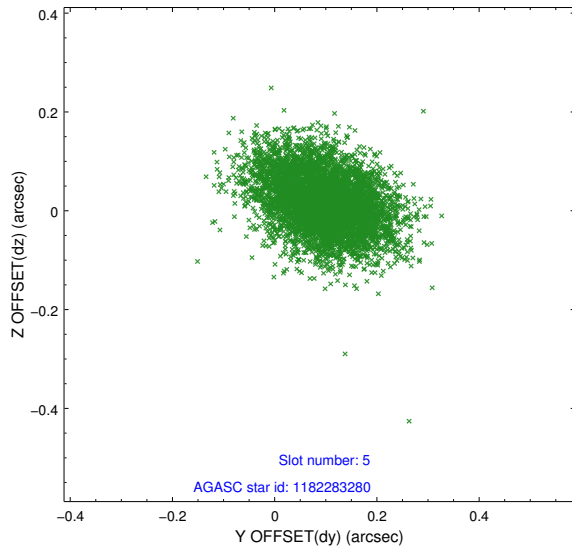
2.4.1 Slot 3



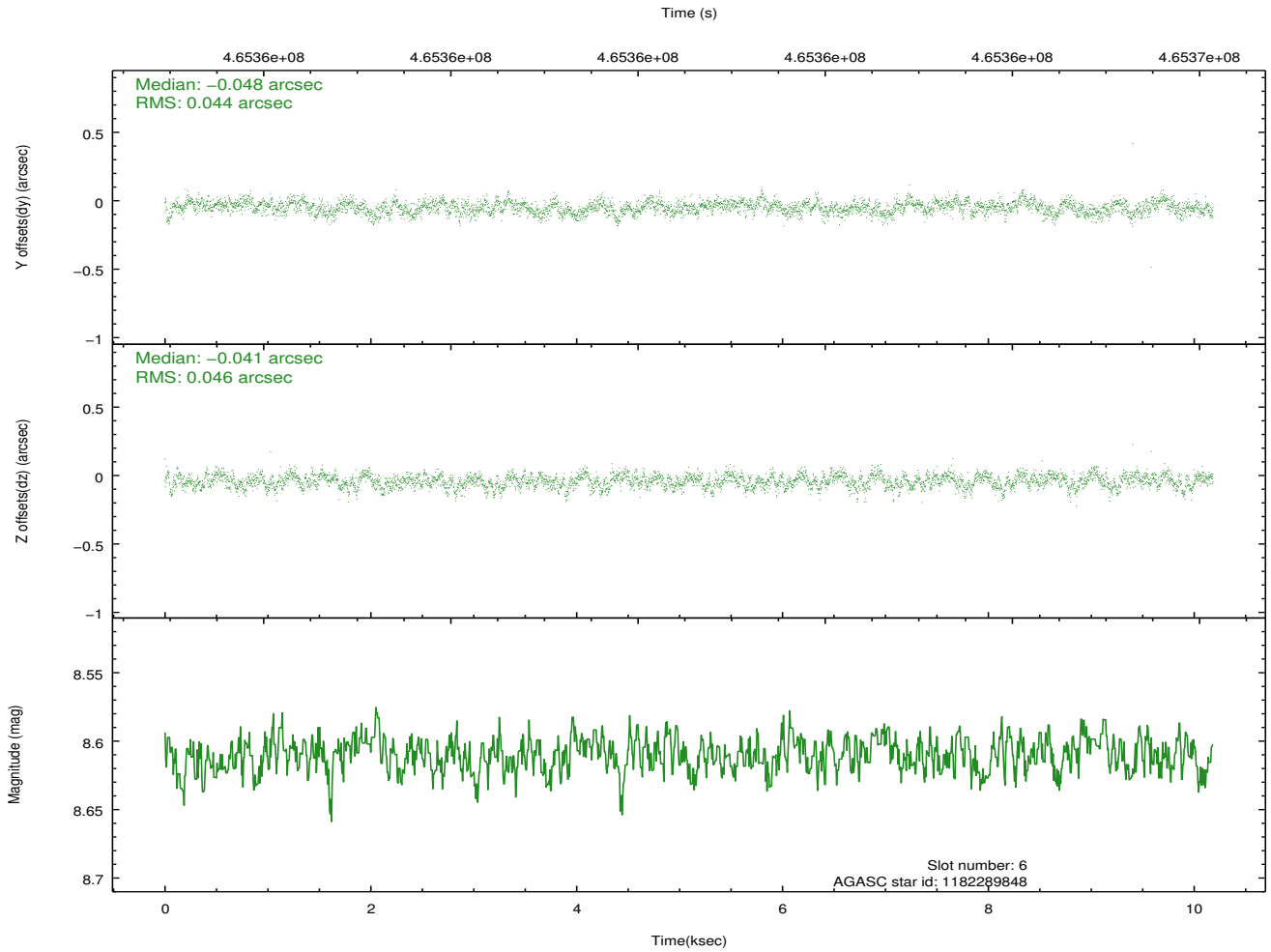
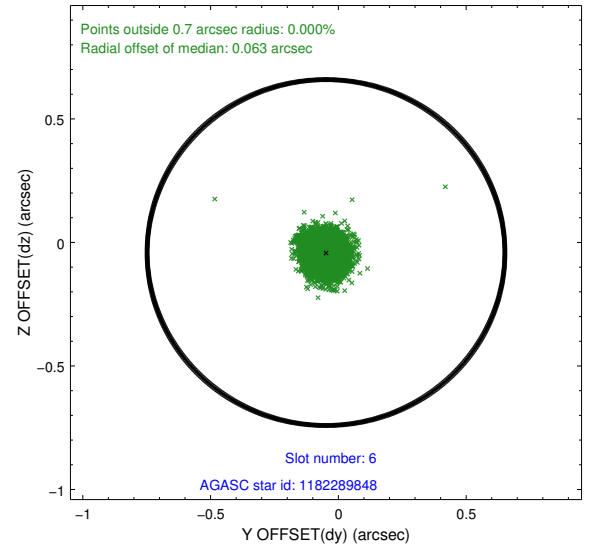
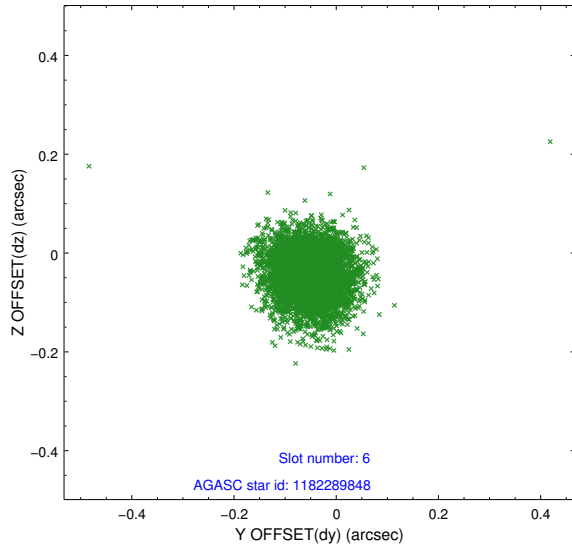
2.4.2 Slot 4



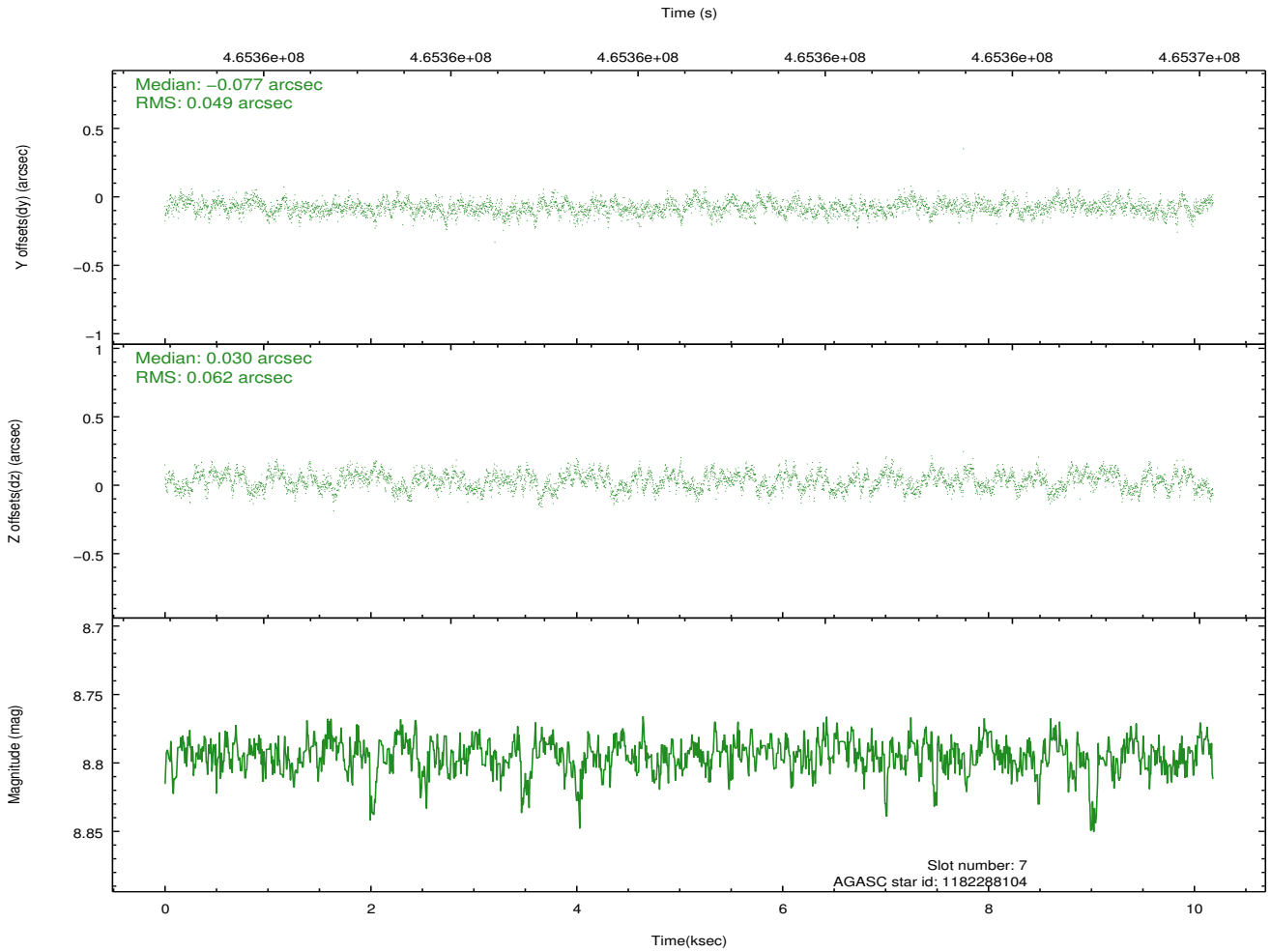
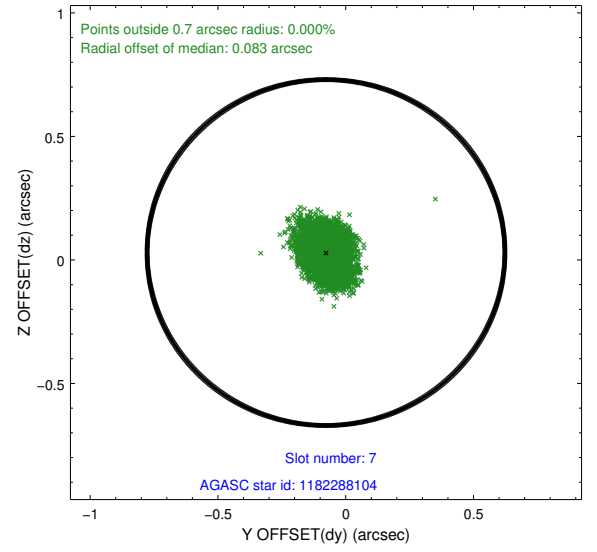
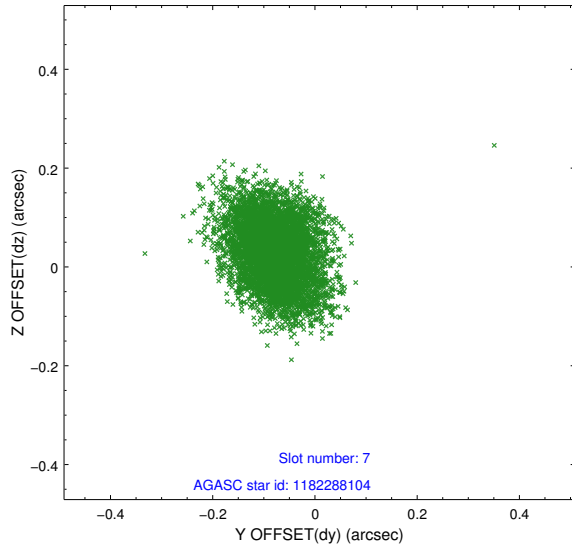
2.4.3 Slot 5



2.4.4 Slot 6

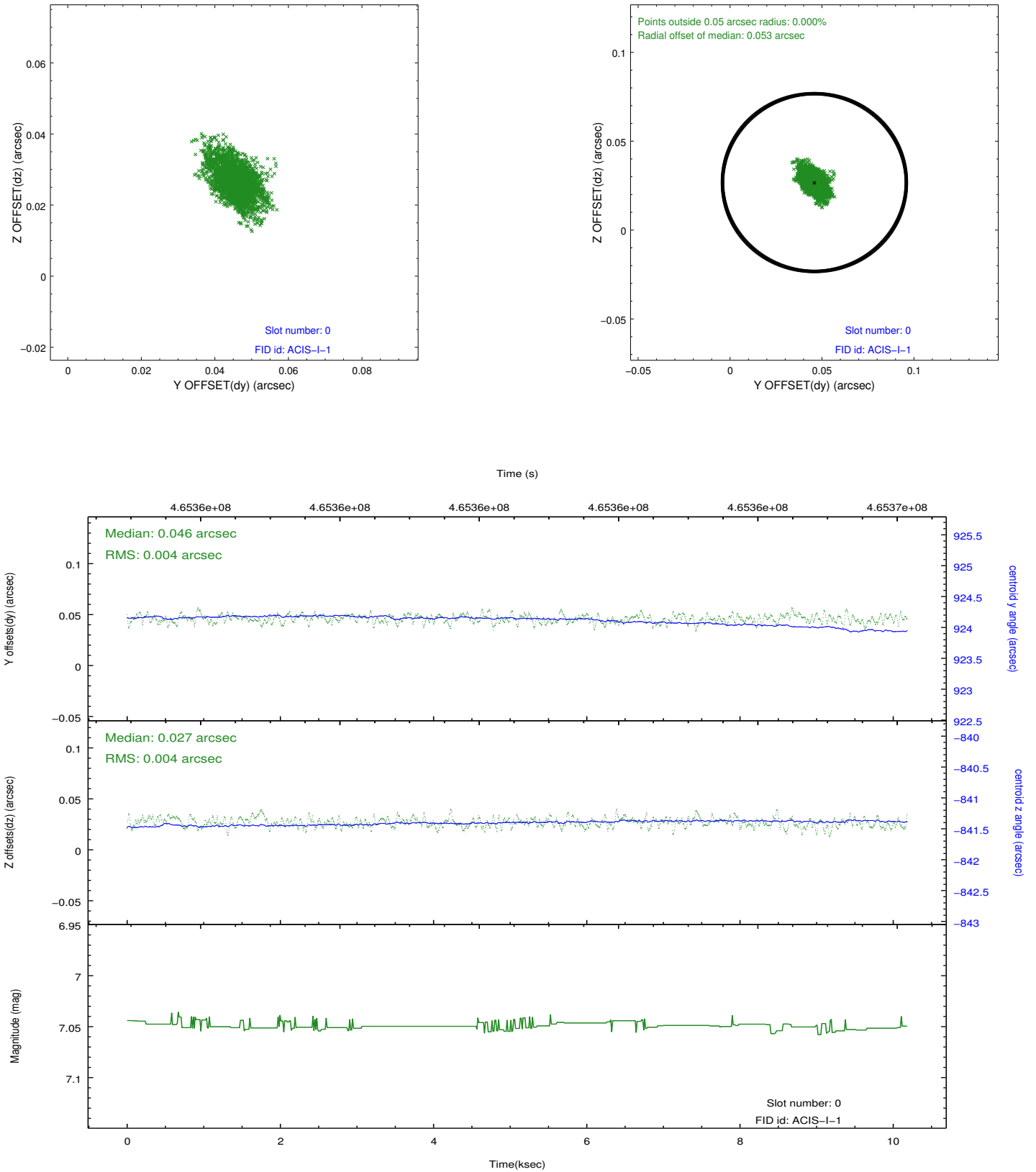


2.4.5 Slot 7

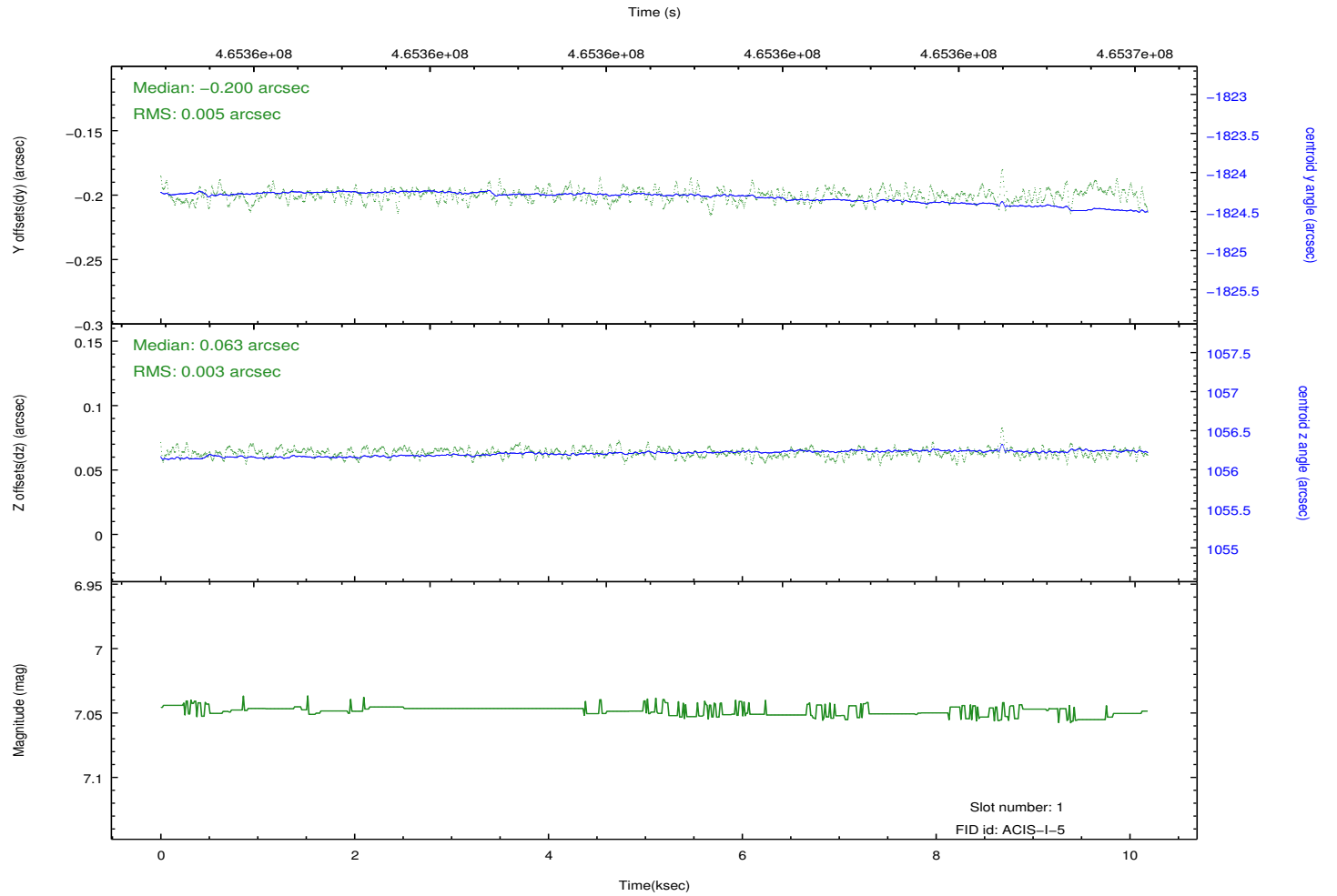
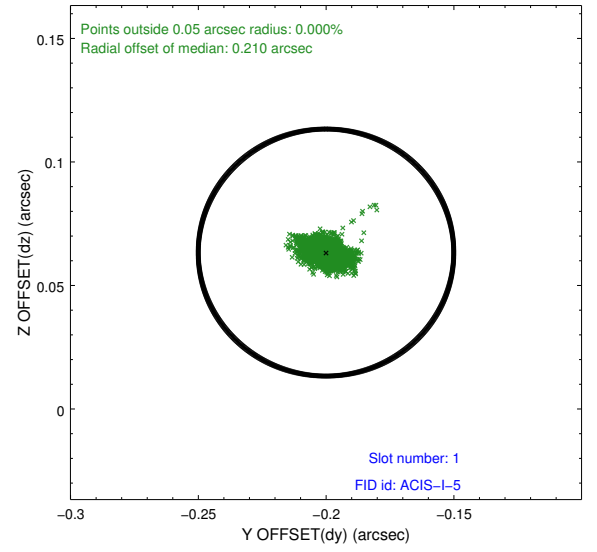
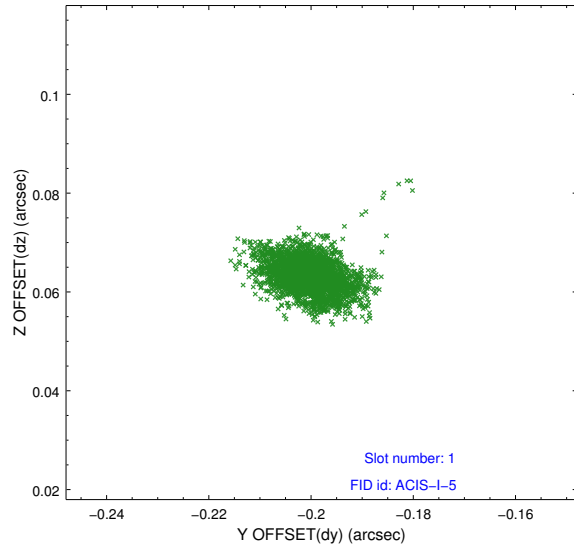


2.5 FID Slots

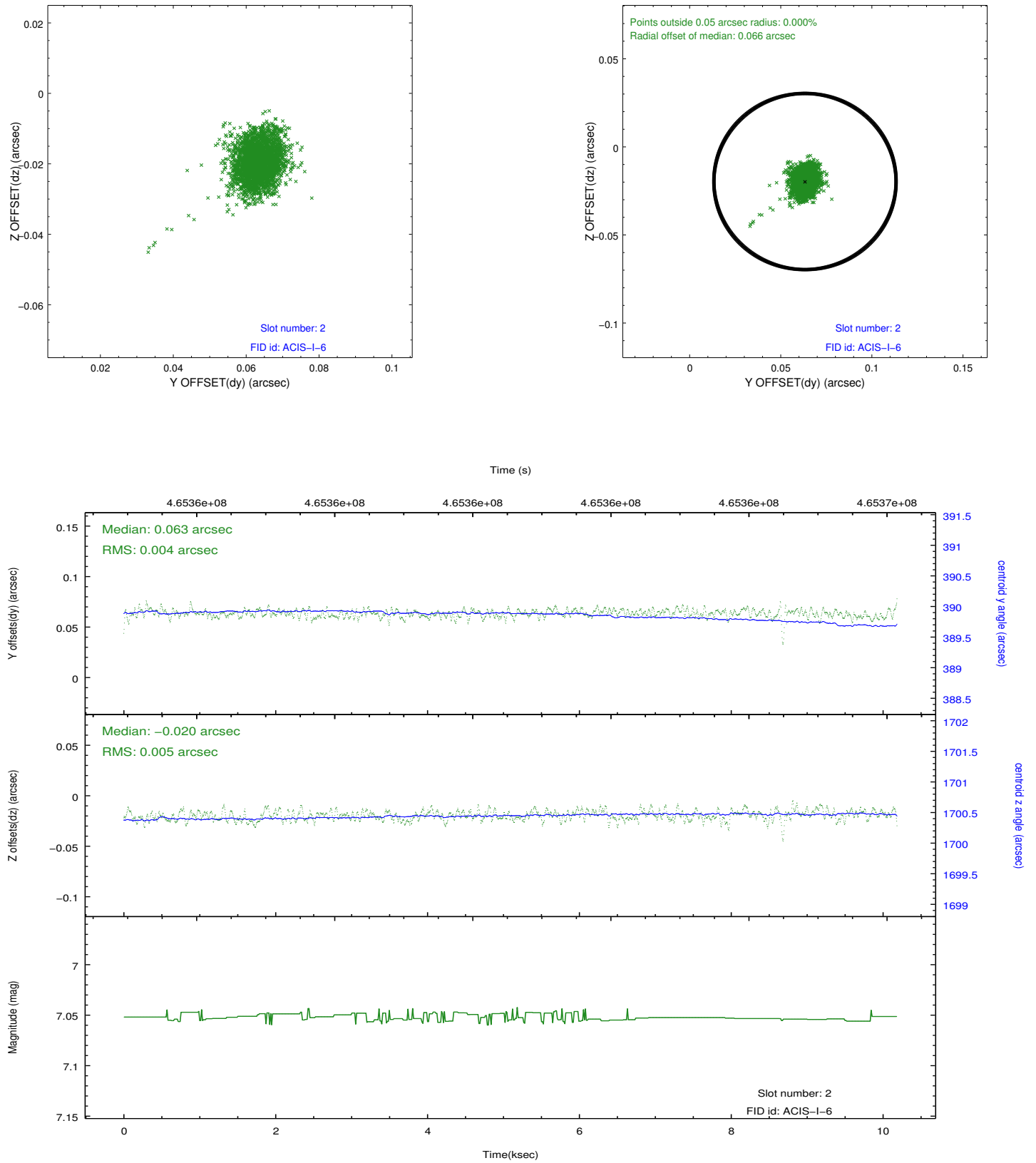
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9679999629259

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.