

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15161 - L2 Version 2
Chandra X-Ray Center

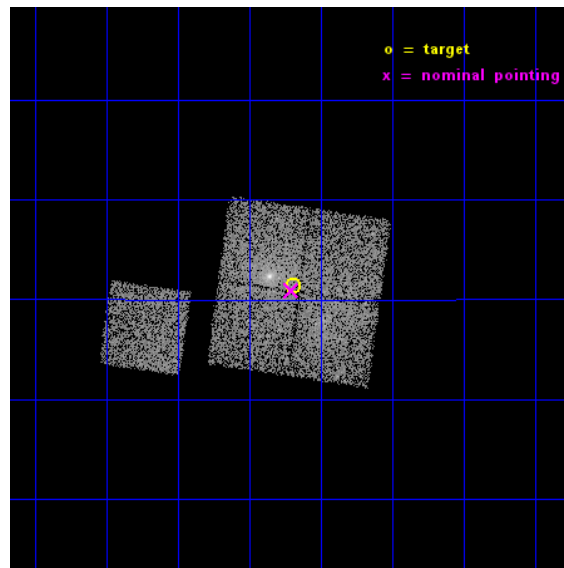
L2 Processing Date : Dec 1 2014

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1 Front

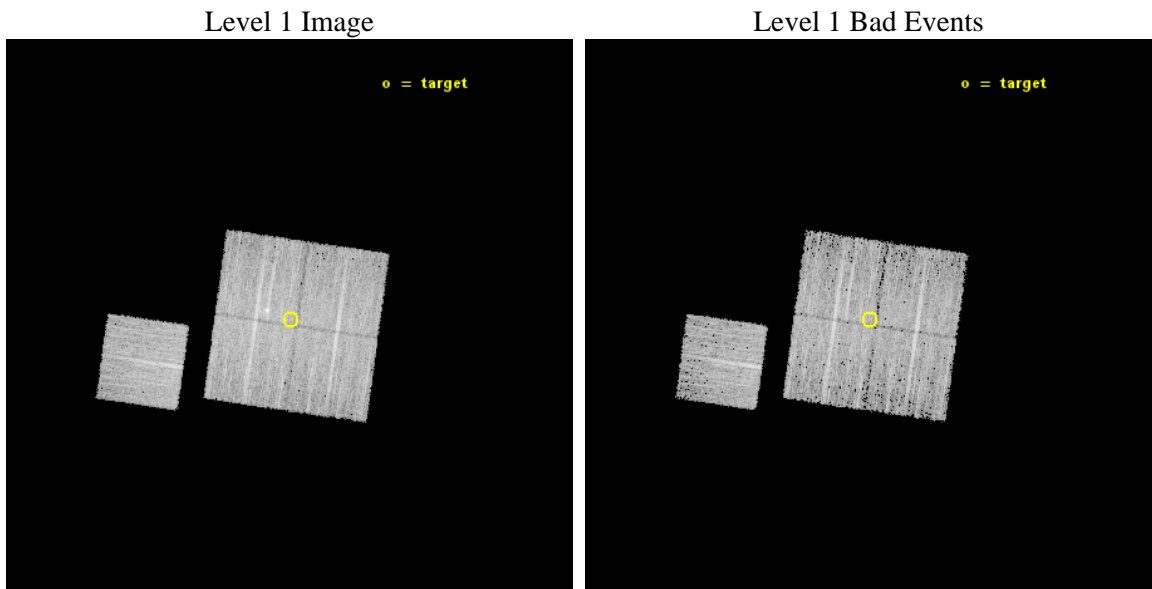
seq_num	801289	Sequence number
obs_id	15161	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	Z1665	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.797917	Observer's specified target RA [deg]
dec_targ	4.356	Observer's specified target Dec [deg]
ra_nom	125.8013837265	Nominal RA [deg]
dec_nom	4.3486767623181	Nominal Dec [deg]
roll_nom	278.15408705574	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10083.718801439	Sum of GTIs [s]
livetime	9951.9675917722	Livetime [s]
ontime0	10083.595681429	Sum of GTIs [s]
ontime1	10083.636721432	Sum of GTIs [s]
ontime2	10083.677761436	Sum of GTIs [s]
ontime3	10083.718801439	Sum of GTIs [s]
ontime6	10083.554641426	Sum of GTIs [s]
l2events	30470	Number of level 2 events



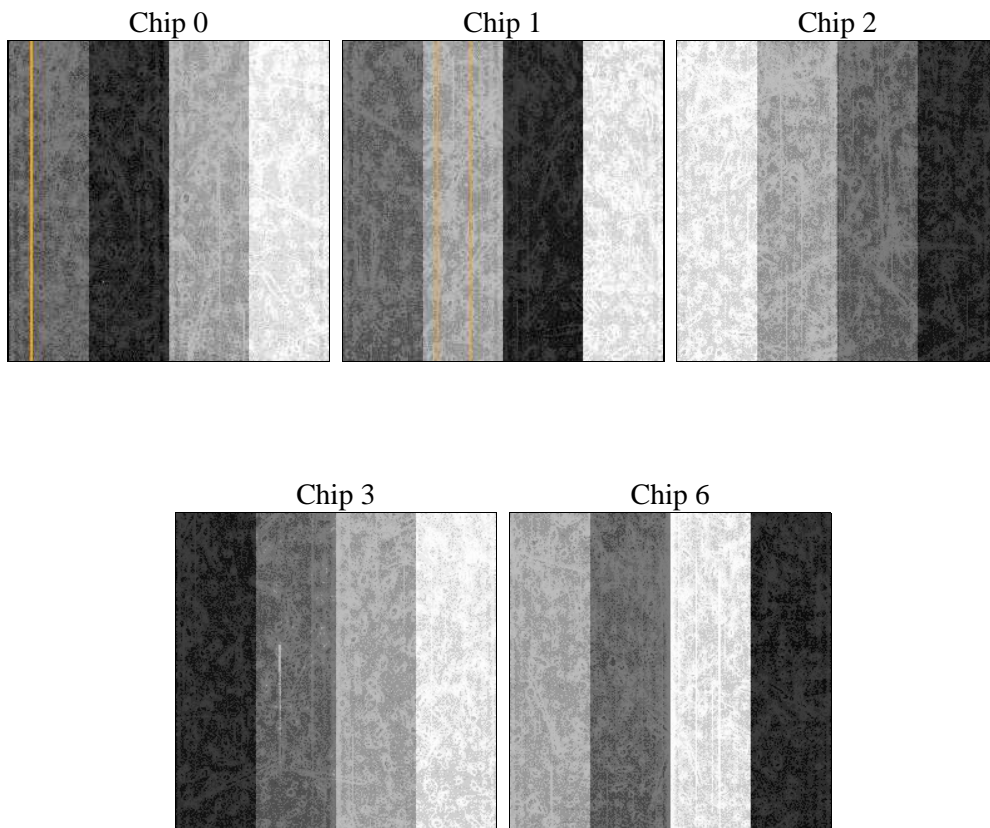
2 OBI

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	10083.718801439	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	10083.595681429	Sum of GTIs [s]
date	2014-12-01T17:00:38	Date and time of file creation	ontime1	10083.636721432	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10083.677761436	Sum of GTIs [s]
			ontime3	10083.718801439	Sum of GTIs [s]
			ontime6	10083.554641426	Sum of GTIs [s]
			l1events	260462	Number of level 1 events

2.1.4 Events

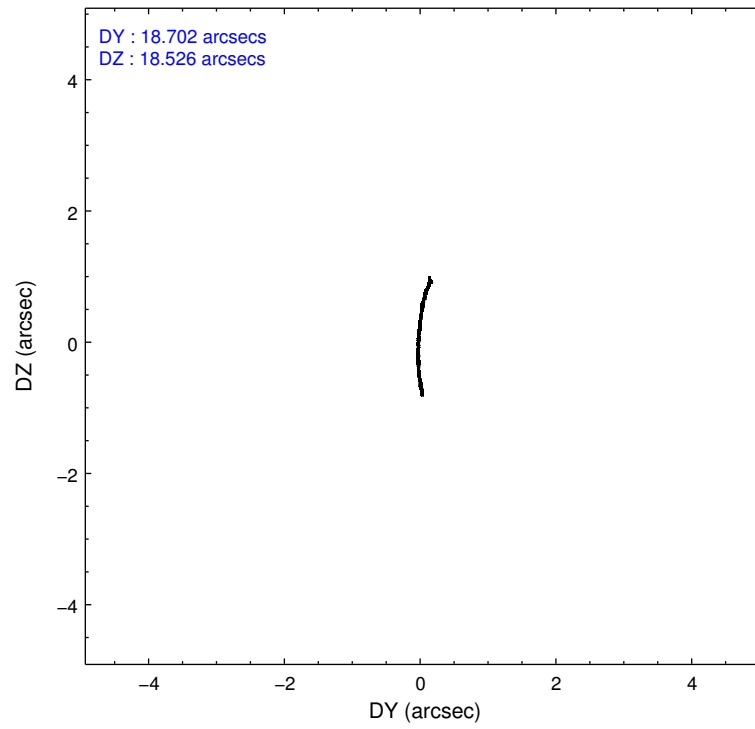
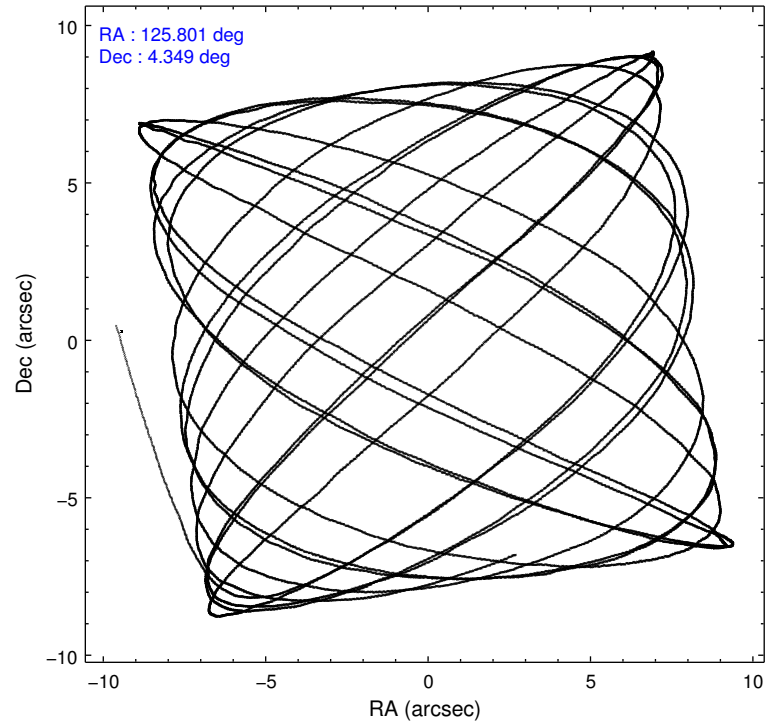
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	49047	49524	55486	54281	52124
rejected events	41751	42736	48266	45937	45969
rejected %	85%	86%	86%	84%	88%

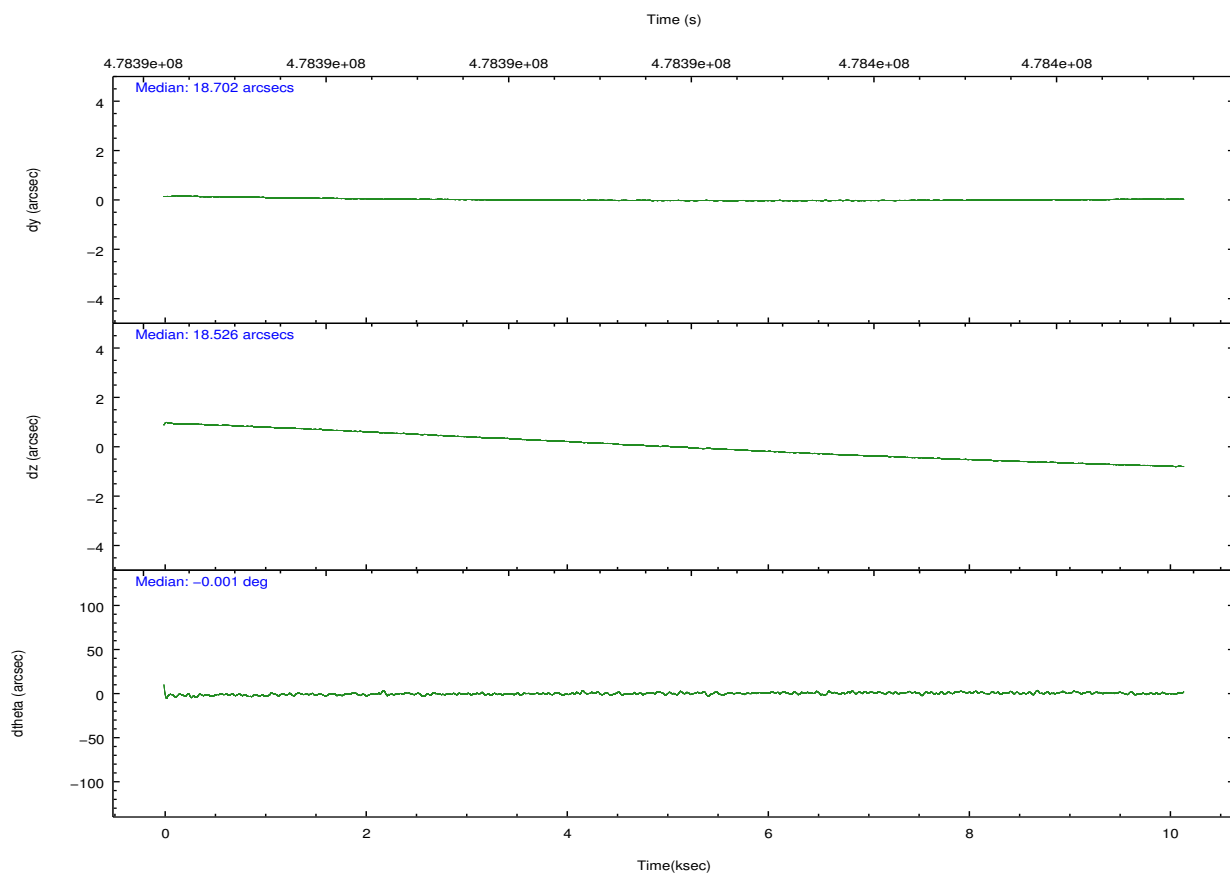
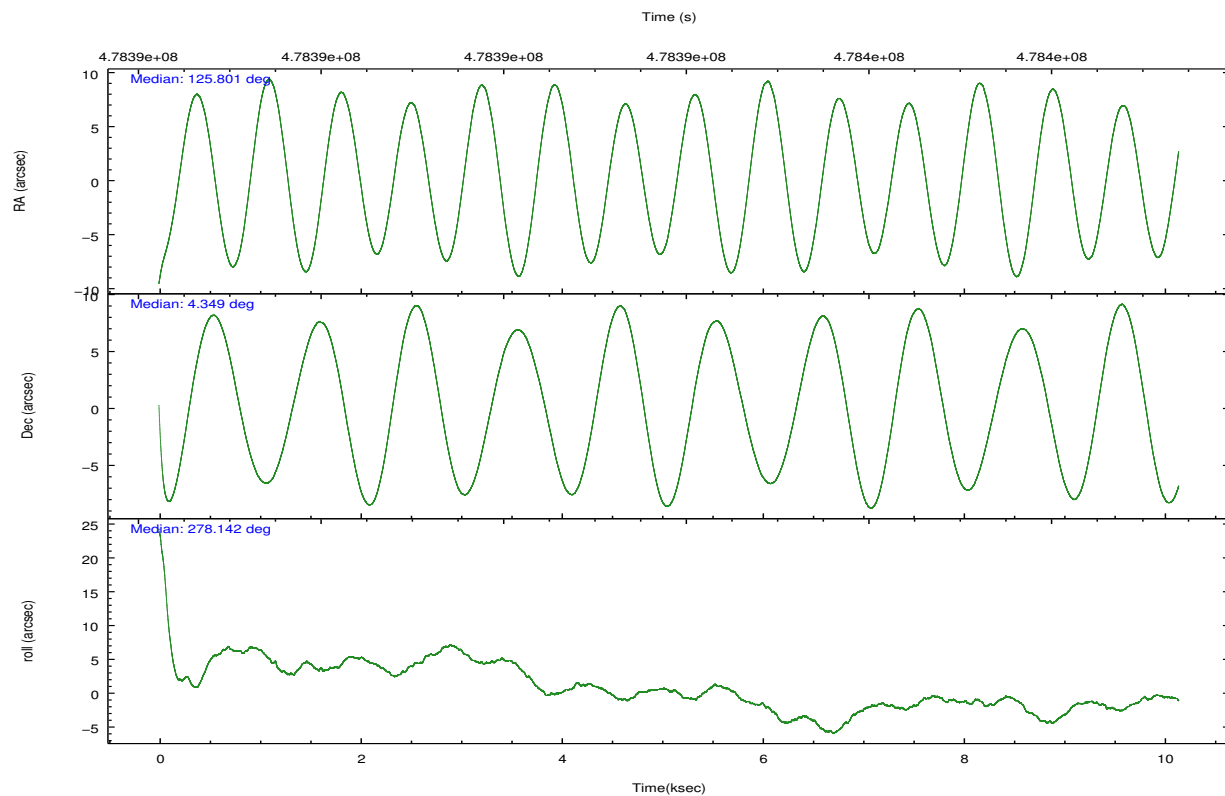
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3331	2642	3275	4324	2155
	6%	5%	5%	7%	4%
grade 1 events	37	36	38	46	33
	0%	0%	0%	0%	0%
grade 2 events	1597	1459	1597	1516	1395
	3%	2%	2%	2%	2%
grade 3 events	652	677	599	638	652
	1%	1%	1%	1%	1%
grade 4 events	635	658	604	697	644
	1%	1%	1%	1%	1%
grade 5 events	2050	2207	1918	2312	2259
	4%	4%	3%	4%	4%
grade 6 events	1084	1360	1149	1171	1315
	2%	2%	2%	2%	2%
grade 7 events	39661	40485	46306	43577	43671
	80%	81%	83%	80%	83%

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	125.784273	125.8013837264955	CCD I2 on	Y	Y
[deg] Pointing Dec	4.370254	4.348676762318141	CCD I3 on	Y	Y
[deg] Pointing Roll	277.946684	278.1540870557407	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	478388868.184000	478387606.39877	CCD S5 on	N	N
Observation start date	2013-02-27T21:46:41	2013-02-27T21:26:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478398868.184000	478399253.4744	On-chip summing requested	N	N
Observation end date	2013-02-28T00:33:21	2013-02-28T00:40:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



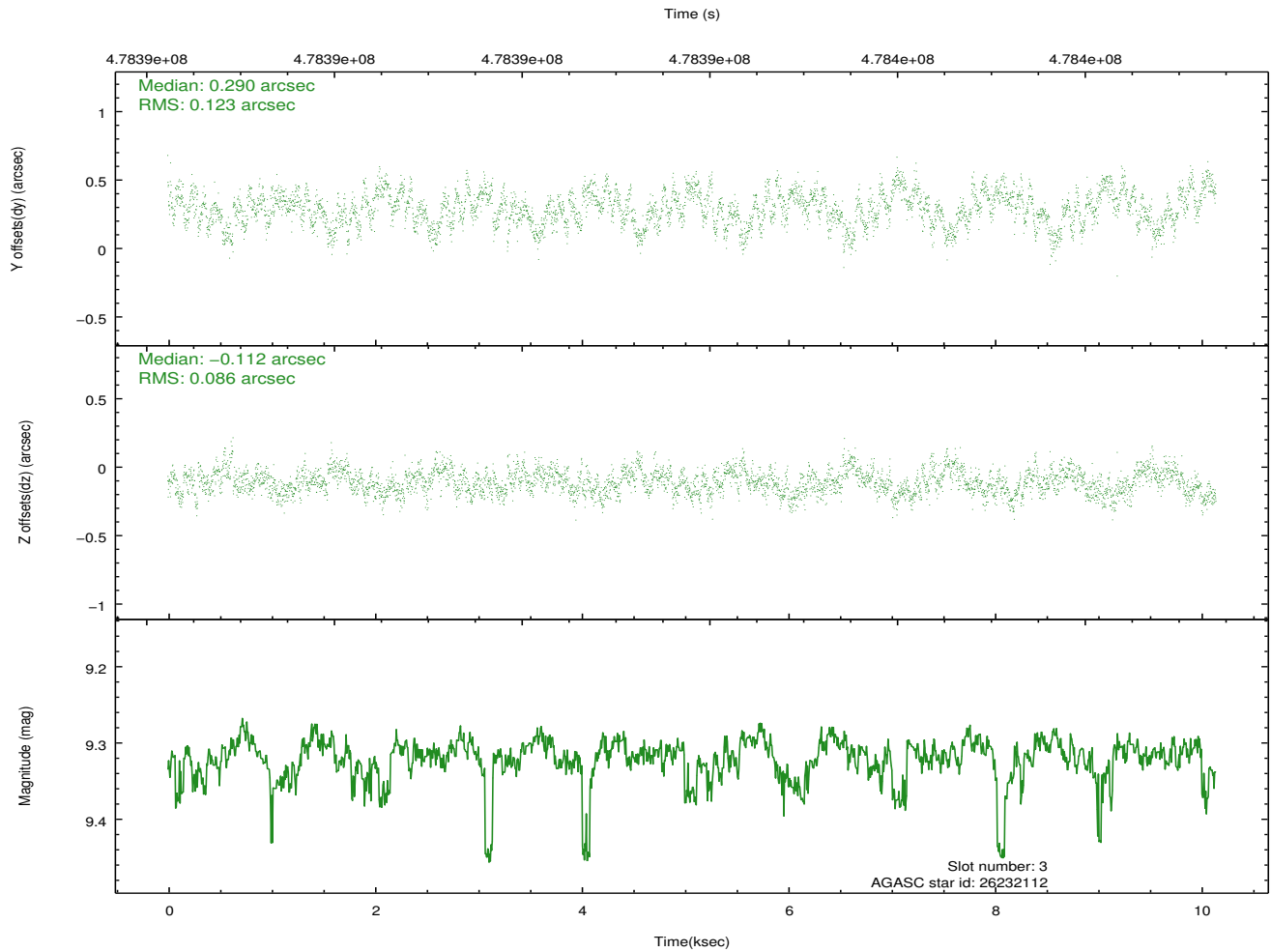
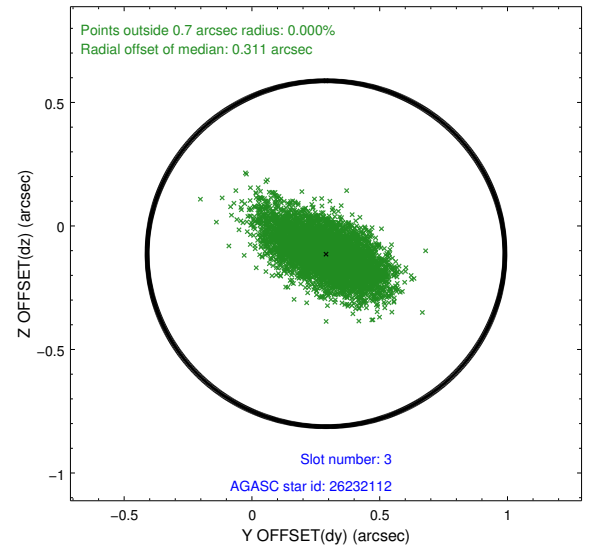
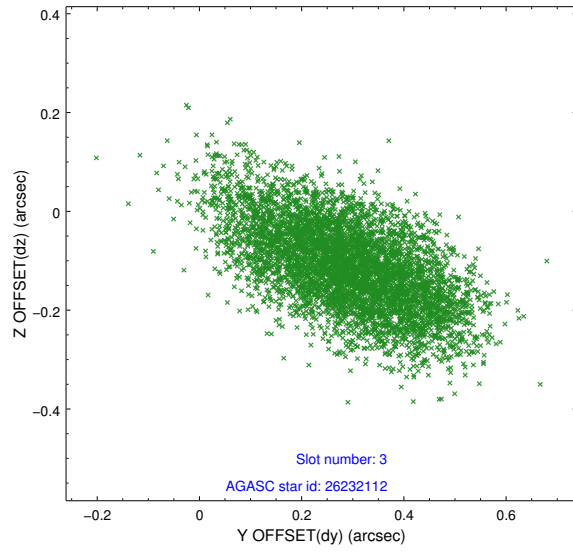


Slot Statistics

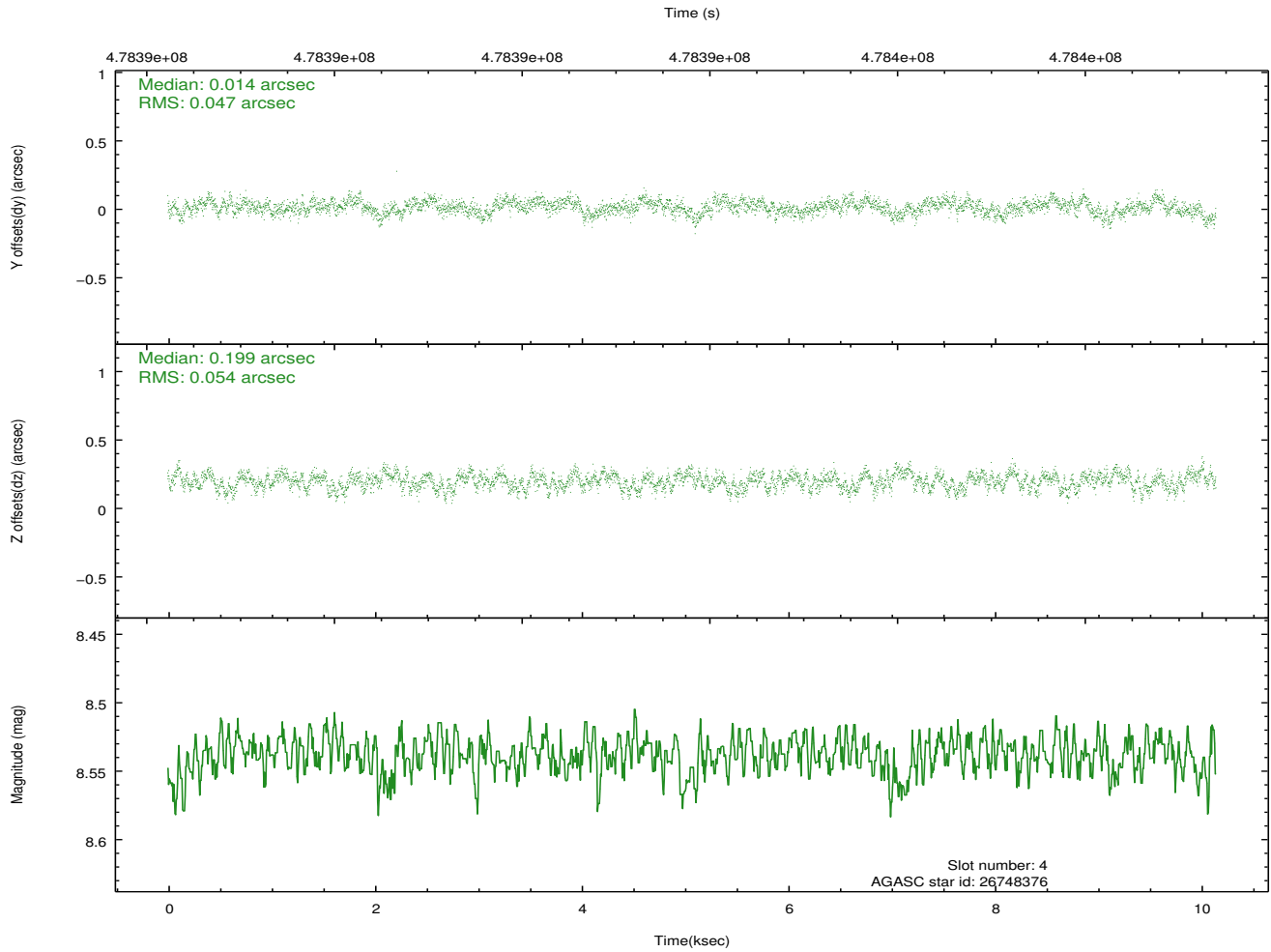
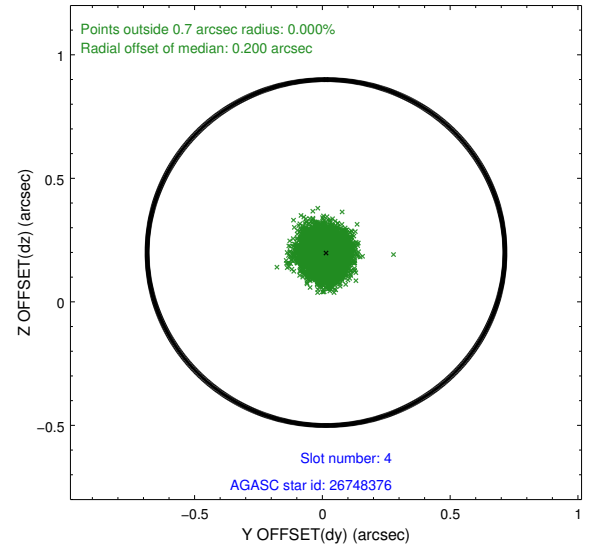
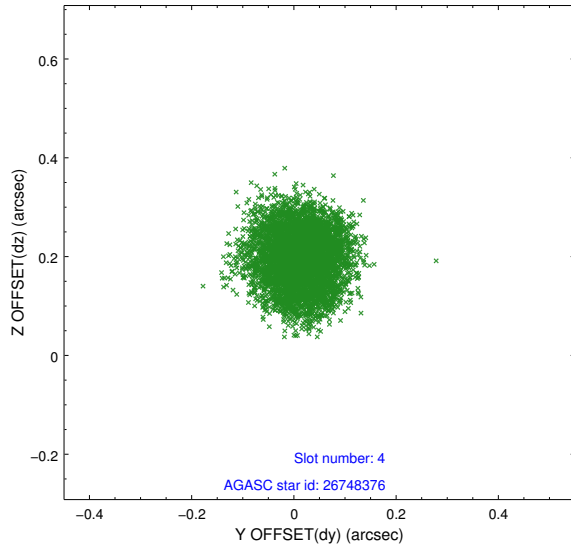
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.06	2475	-0.067	0.057	0.010	0.016	0.000000	0.000000	920.56	-842.15
1	FID		ACIS-I-2	6.96	2474	-0.152	-0.096	0.009	0.015	0.000000	0.000000	-773.32	-849.07
2	FID		ACIS-I-4	6.98	2474	0.121	0.104	0.012	0.019	0.000000	0.000000	2140.42	1057.38
3	GUIDE	used	26232112	9.32	4949	0.290	-0.112	0.158	0.266	125.266047	3.647800	2319.01	-2203.27
4	GUIDE	used	26748376	8.54	4949	0.014	0.199	0.078	0.119	125.409493	4.516097	-705.32	-1259.69
5	GUIDE	used	26884136	6.52	4950	-0.236	-0.112	0.064	0.098	126.276906	4.497224	-209.12	1814.28
6	BAD	used	26748896	5.21	3090	-0.285	0.235	0.056	0.087	125.388748	4.958406	-2293.23	-1111.57
7	GUIDE	used	26878672	8.82	4947	0.108	-0.122	0.094	0.150	126.263849	4.478174	-147.85	1758.27

2.4 Star Slots

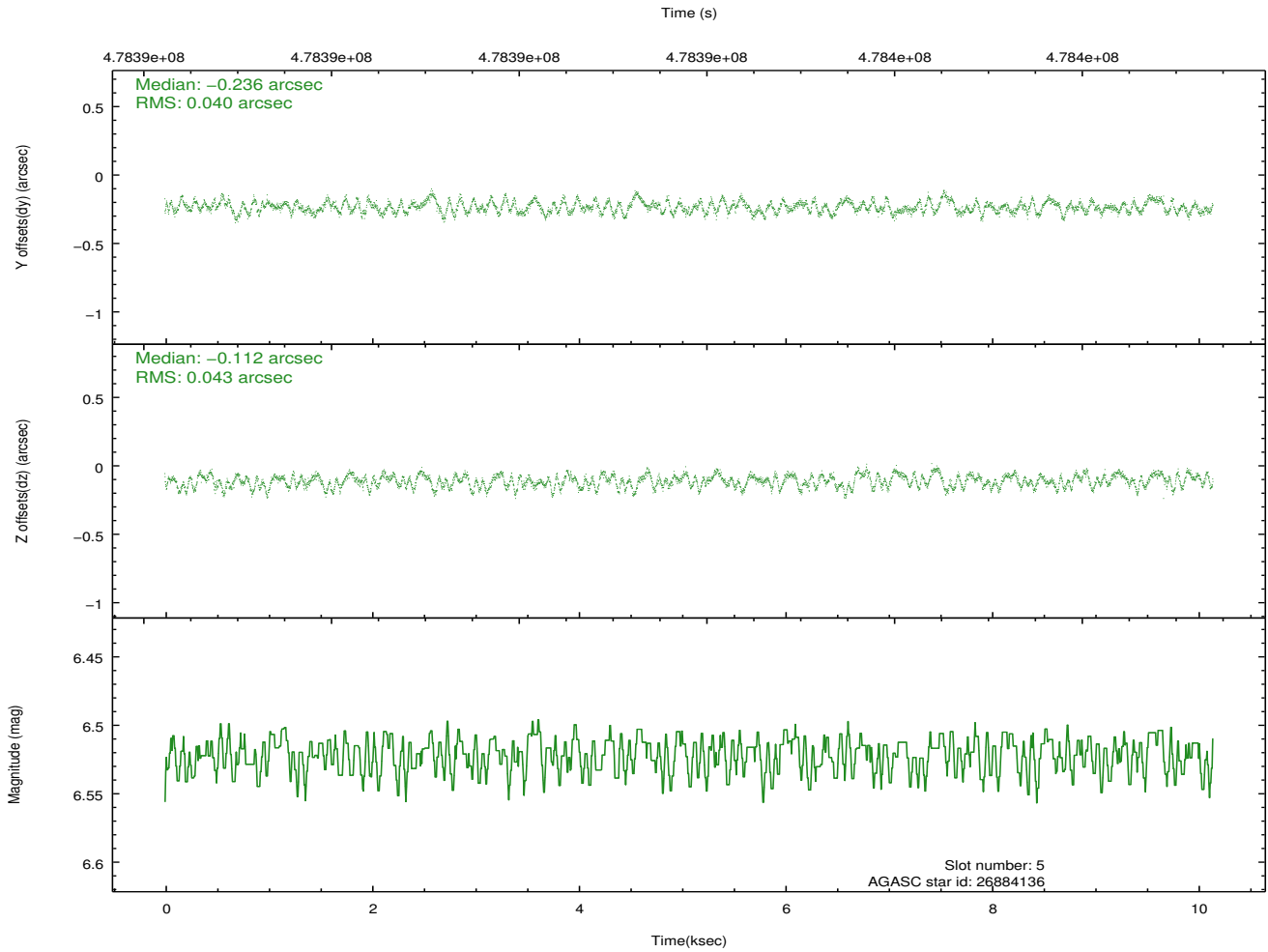
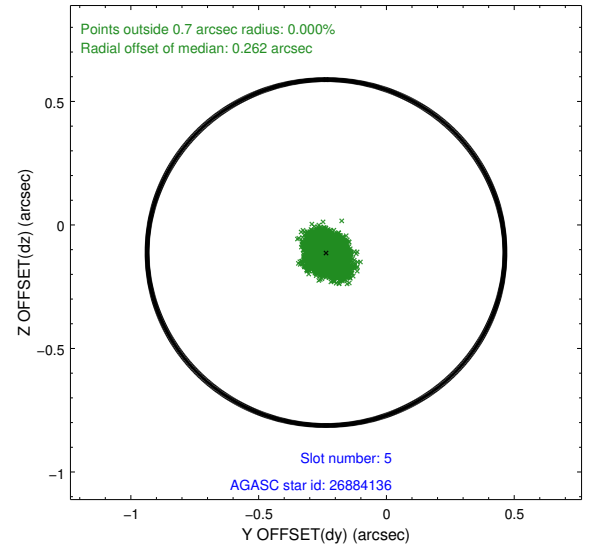
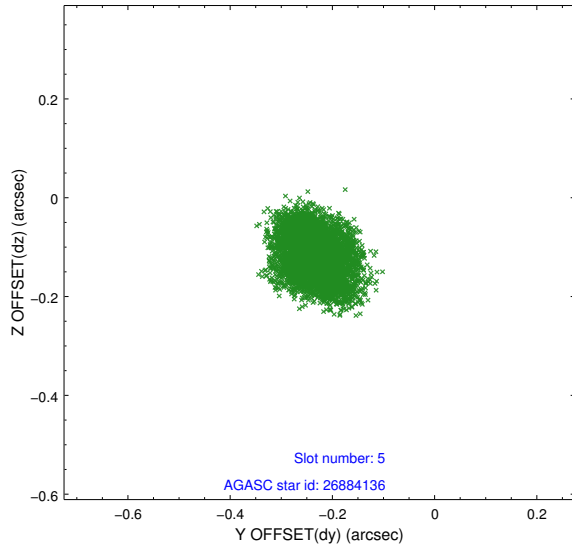
2.4.1 Slot 3



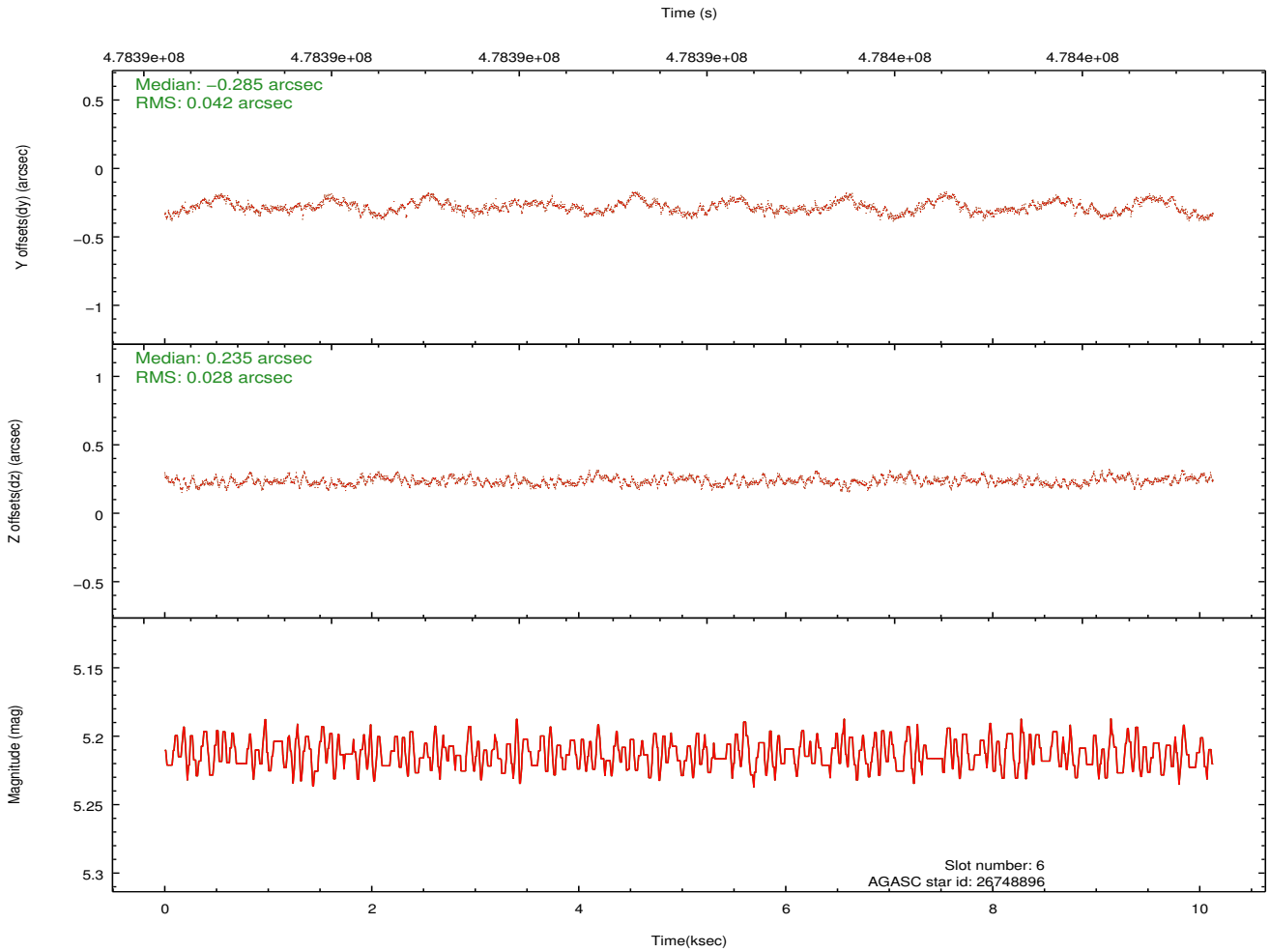
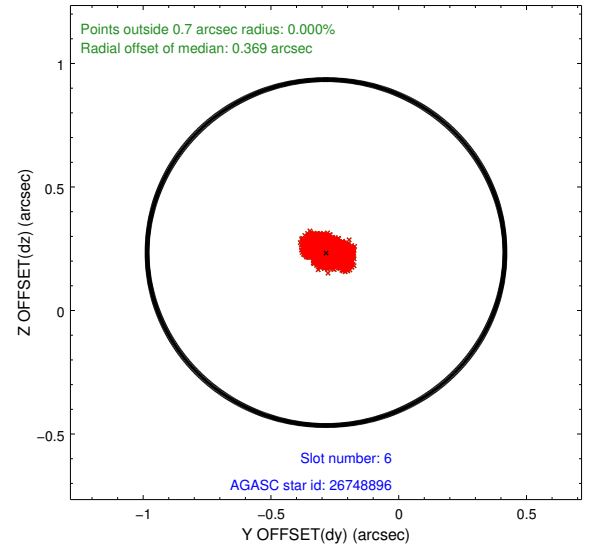
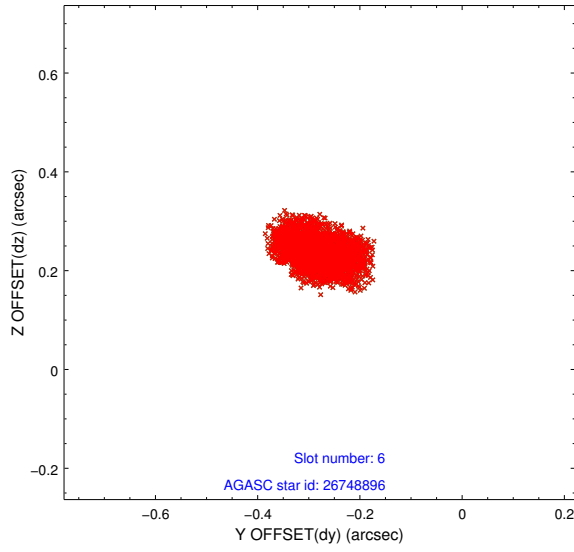
2.4.2 Slot 4



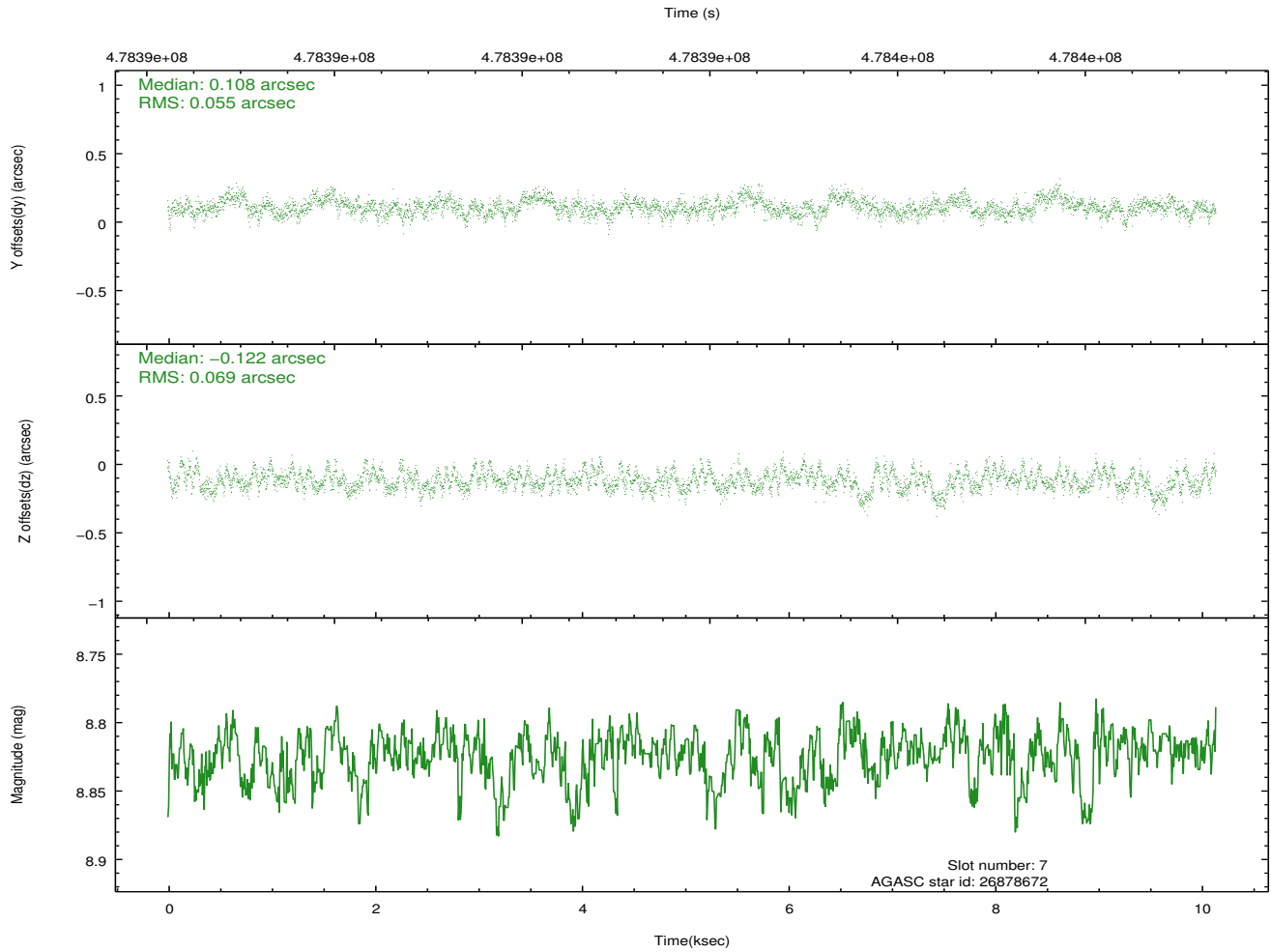
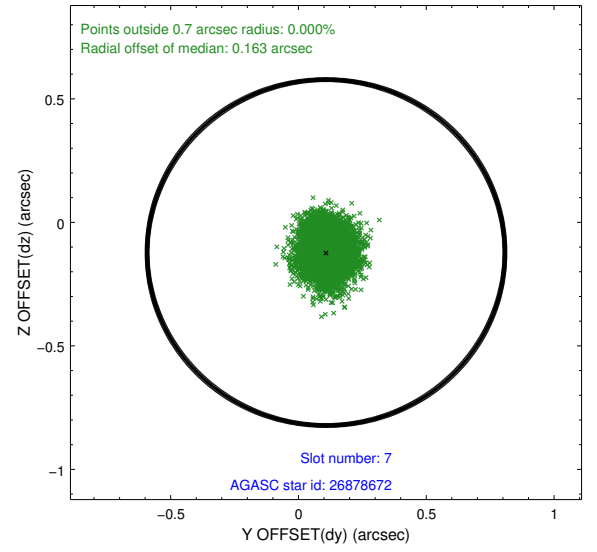
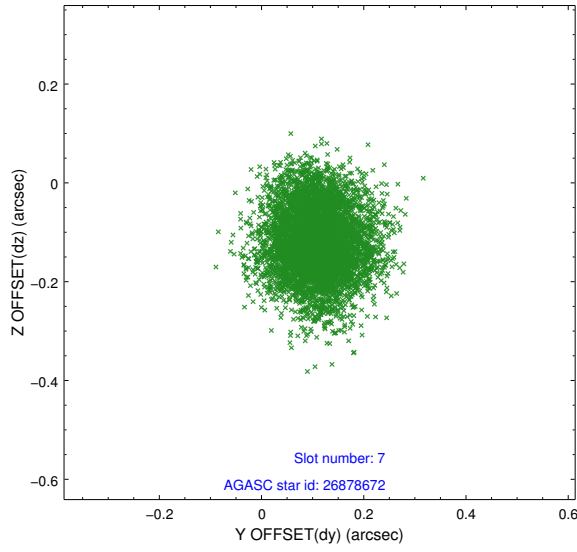
2.4.3 Slot 5



2.4.4 Slot 6

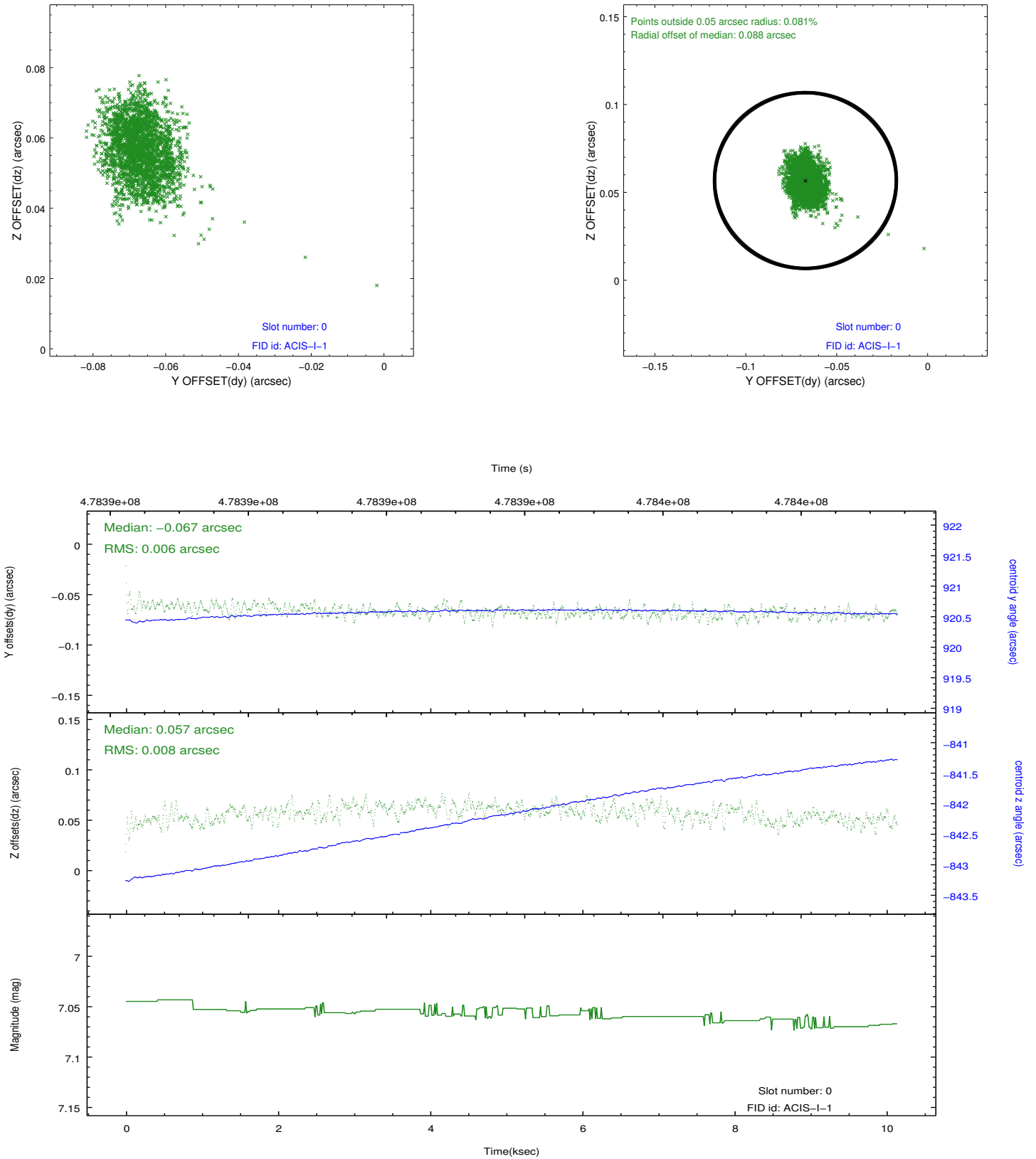


2.4.5 Slot 7

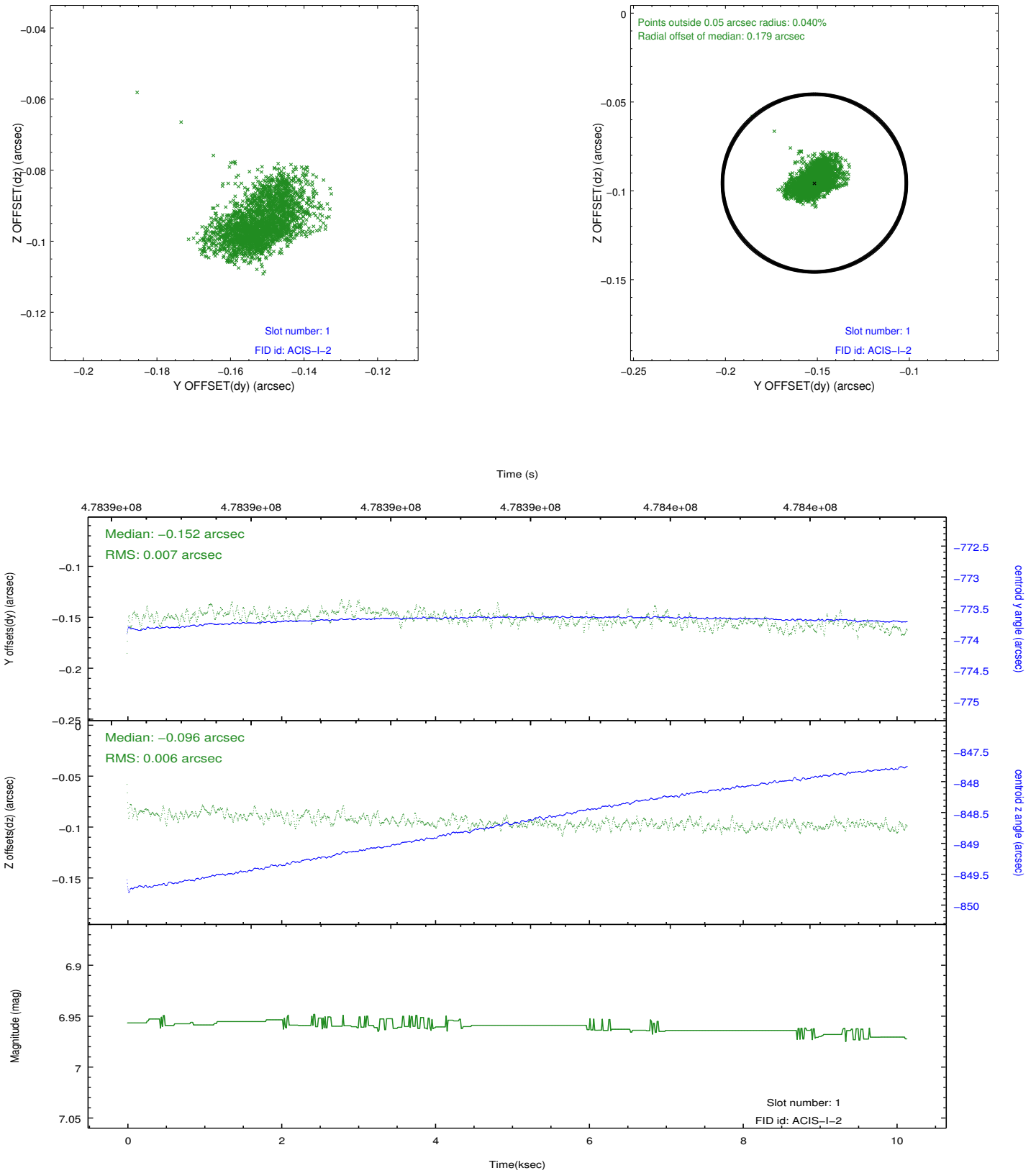


2.5 FID Slots

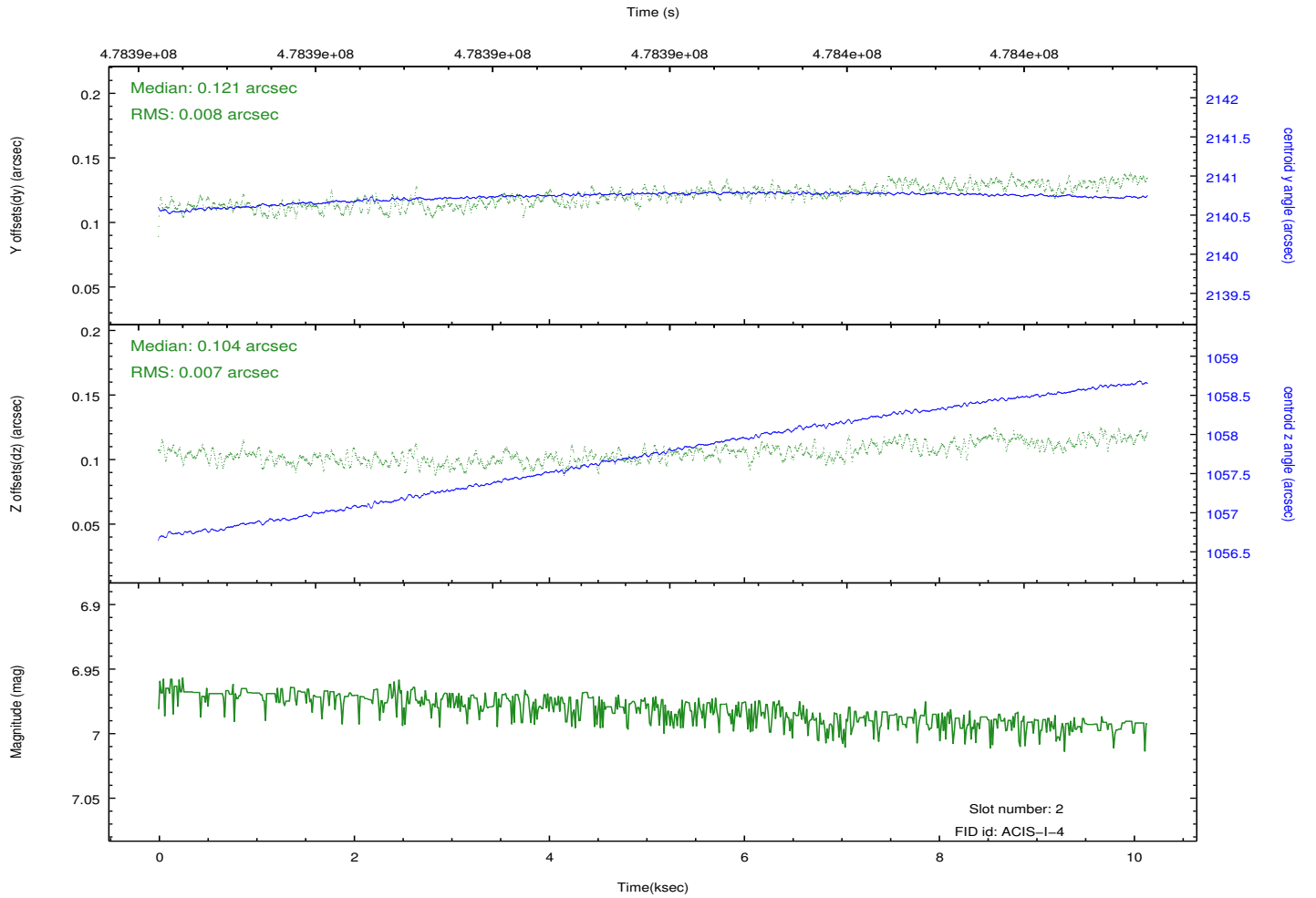
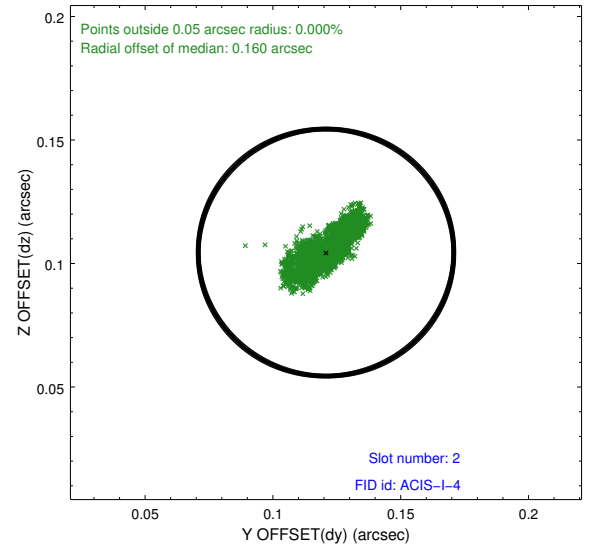
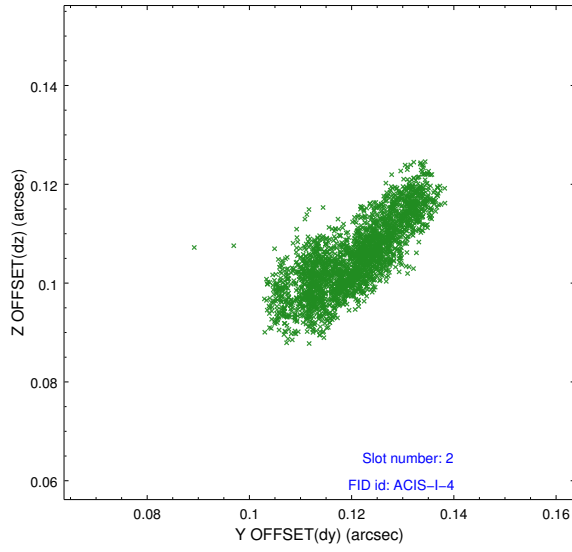
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.083718801439

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.