

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 15308 - L2 Version 2
Chandra X-Ray Center

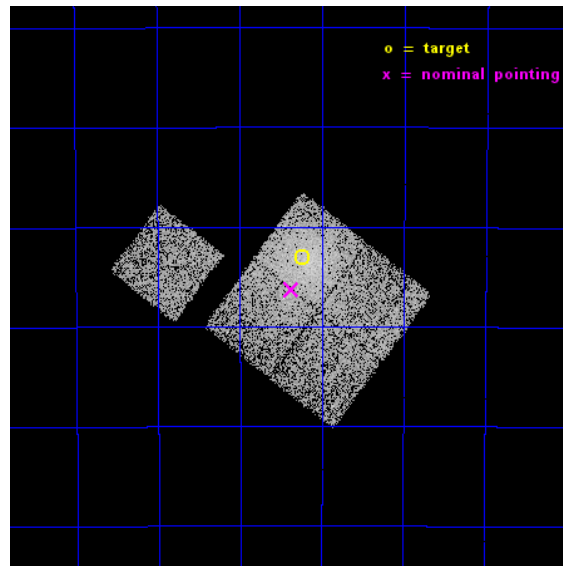
L2 Processing Date : Dec 6 2014

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1 Front

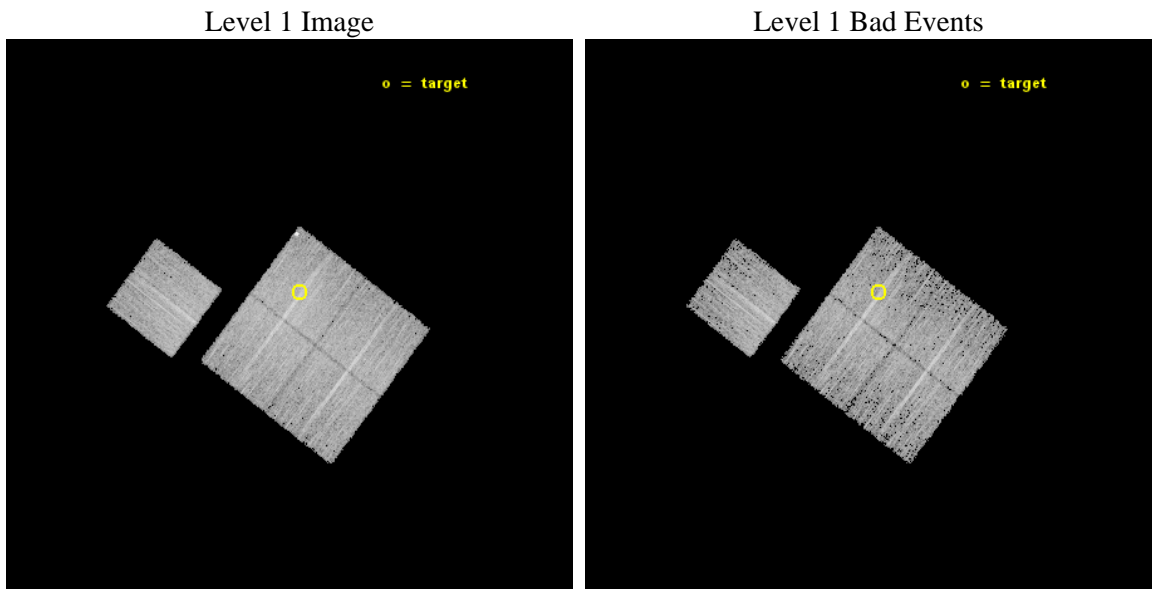
seq_num	801341	Sequence number
obs_id	15308	Observation id
title	Characterizing the Most Massive Clusters in the z	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	G342.81-30.46	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	298.060833	Observer's specified target RA [deg]
dec_targ	-55.050444	Observer's specified target Dec [deg]
ra_nom	298.09261515544	Nominal RA [deg]
dec_nom	-55.104886954456	Nominal Dec [deg]
roll_nom	307.35928479077	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10087.267892241	Sum of GTIs [s]
livetime	9955.4703110908	Livetime [s]
ontime0	10087.144772232	Sum of GTIs [s]
ontime1	10084.044821918	Sum of GTIs [s]
ontime2	10087.226852238	Sum of GTIs [s]
ontime3	10087.267892241	Sum of GTIs [s]
ontime6	10087.103732228	Sum of GTIs [s]
l2events	35080	Number of level 2 events



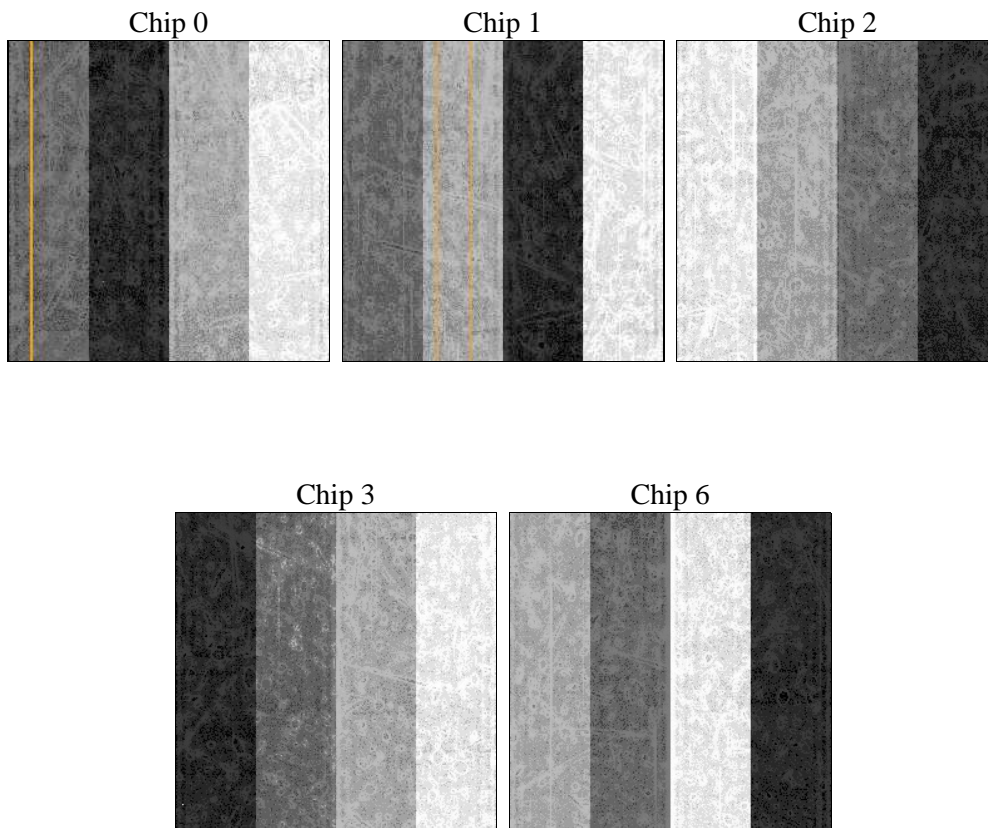
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10087.267892241	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	10087.144772232	Sum of GTIs [s]
date	2014-12-06T10:02:35	Date and time of file creation	ontime1	10084.044821918	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10087.226852238	Sum of GTIs [s]
			ontime3	10087.267892241	Sum of GTIs [s]
			ontime6	10087.103732228	Sum of GTIs [s]
			l1events	236238	Number of level 1 events

2.1.4 Events

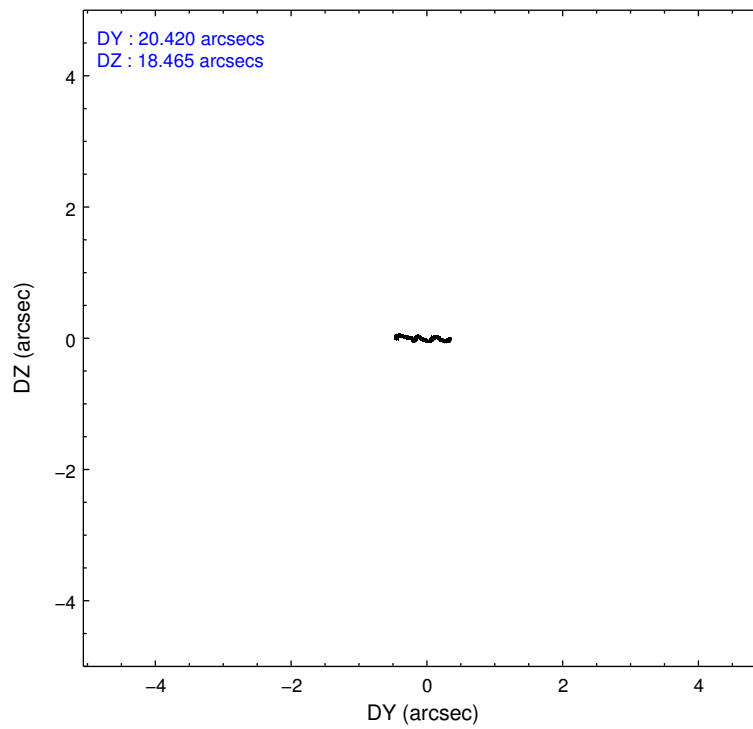
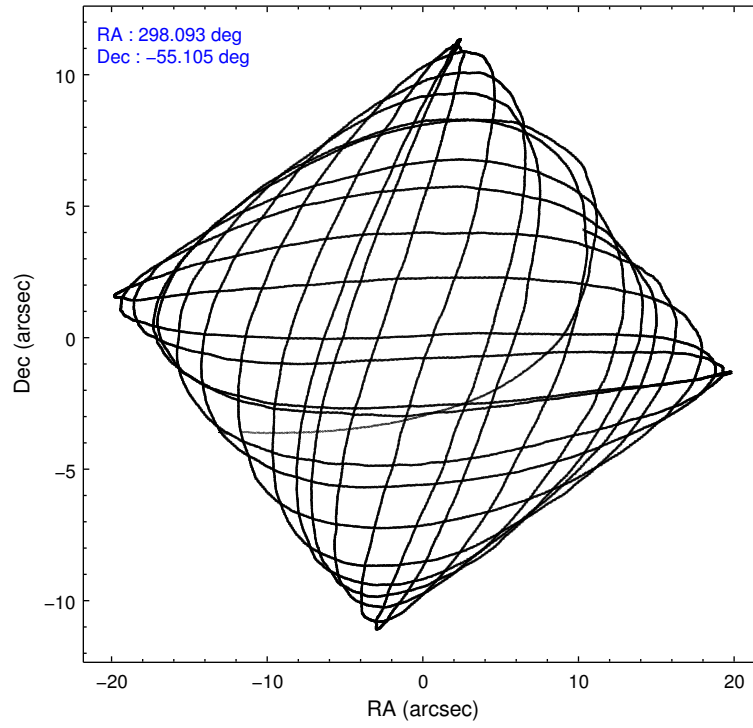
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	43528	45032	48893	51292	47493
rejected events	37000	37467	41105	38140	41212
rejected %	85%	83%	84%	74%	86%

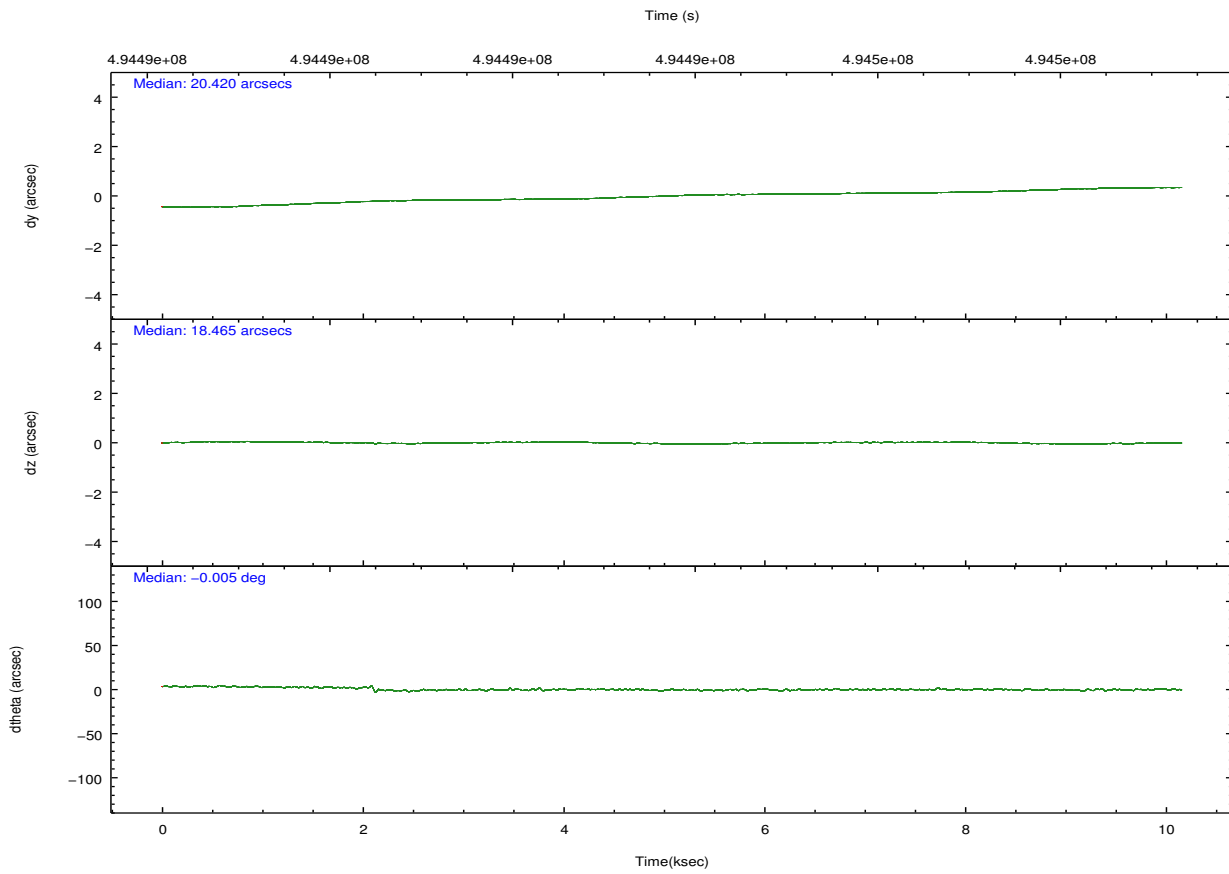
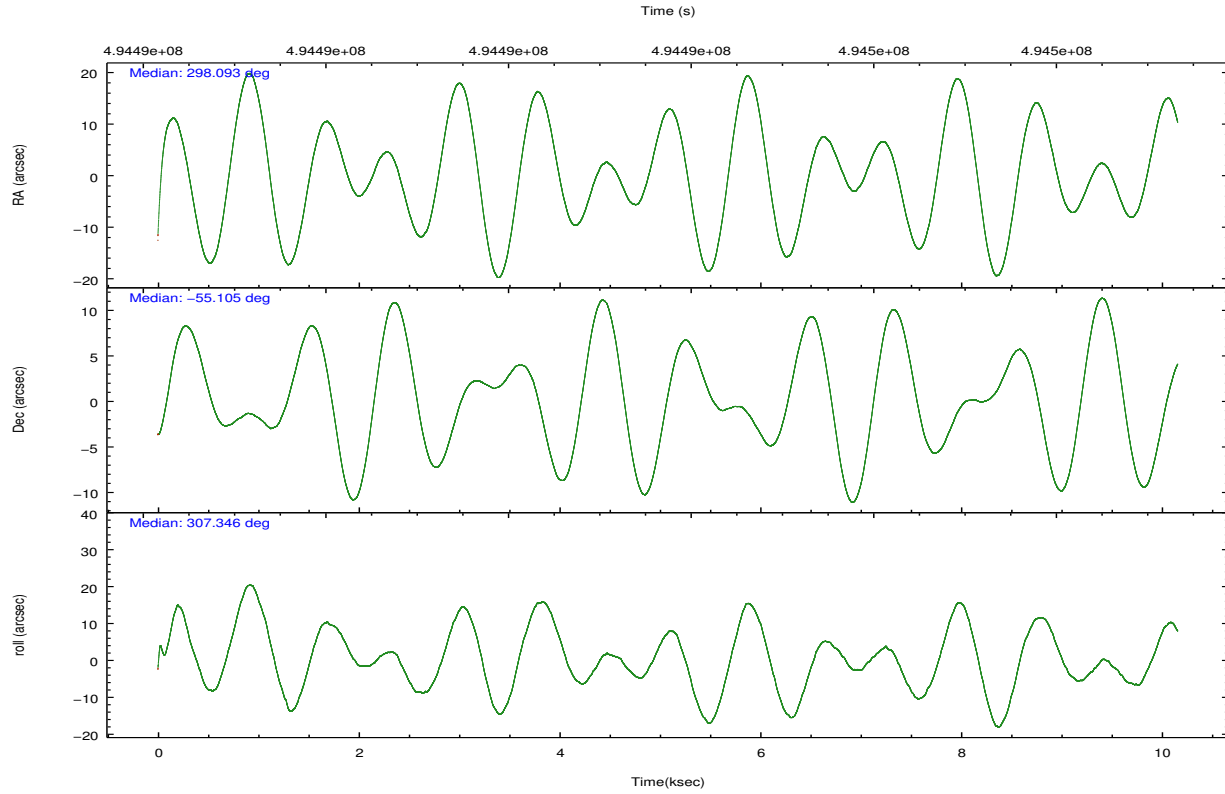
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2612	3194	3762	8337	2346
	6%	7%	7%	16%	4%
grade 1 events	35	39	41	54	28
	0%	0%	0%	0%	0%
grade 2 events	1508	1660	1602	1877	1407
	3%	3%	3%	3%	2%
grade 3 events	620	671	639	769	598
	1%	1%	1%	1%	1%
grade 4 events	577	674	640	830	604
	1%	1%	1%	1%	1%
grade 5 events	2298	2445	2026	2567	2387
	5%	5%	4%	5%	5%
grade 6 events	1215	1371	1151	1348	1329
	2%	3%	2%	2%	2%
grade 7 events	34663	34978	39032	35510	38794
	79%	77%	79%	69%	81%

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	298.048129	298.0926151554432	CCD I2 on	Y	Y
[deg] Pointing Dec	-55.094405	-55.10488695445601	CCD I3 on	Y	Y
[deg] Pointing Roll	307.114102	307.3592847907674	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	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	494488823.184000	494487344.28521	CCD S5 on	N	N
Observation start date	2013-09-02T05:59:16	2013-09-02T05:35:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	494498823.184000	494499432.11087	On-chip summing requested	N	N
Observation end date	2013-09-02T08:45:56	2013-09-02T08:57:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



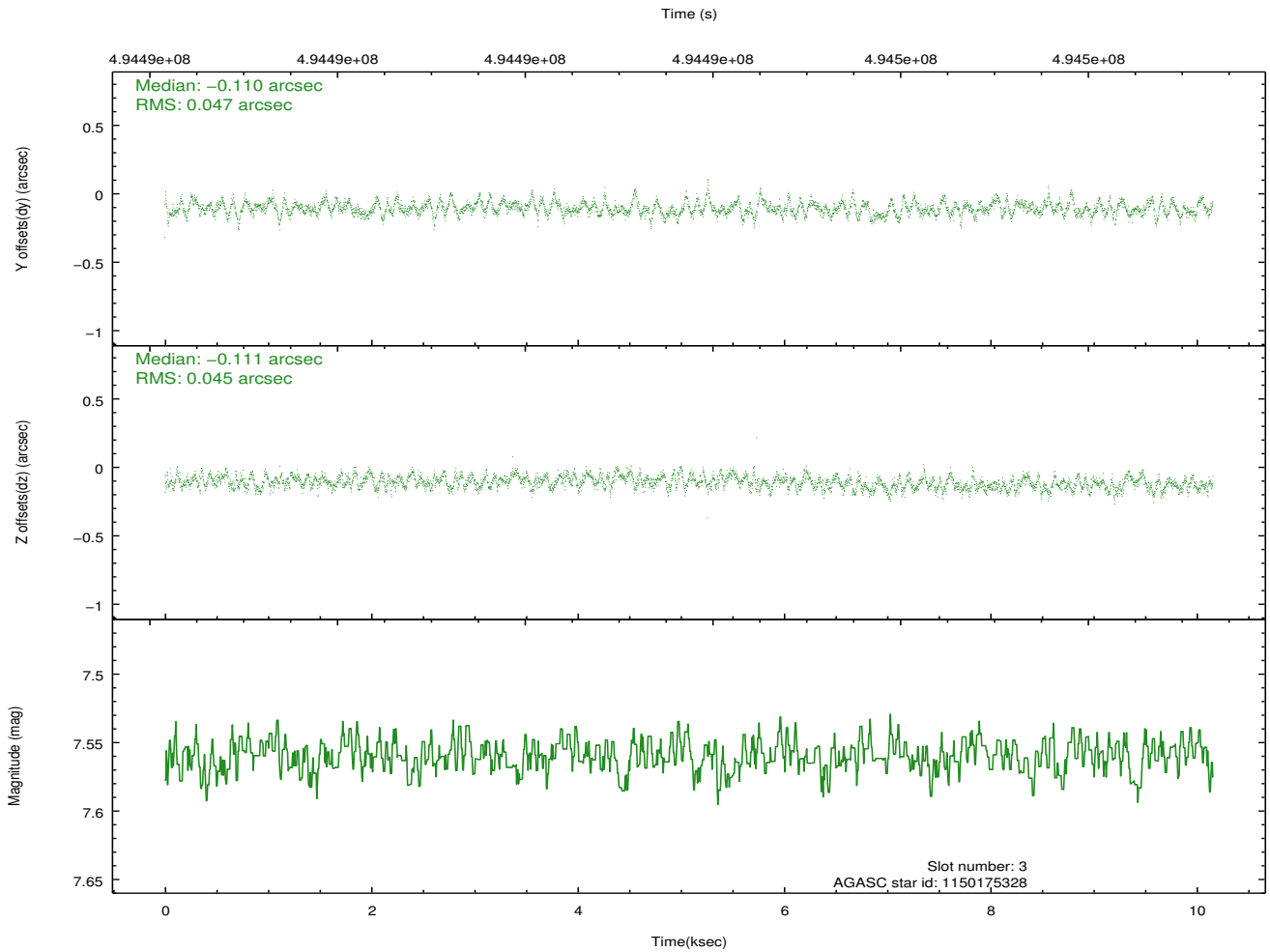
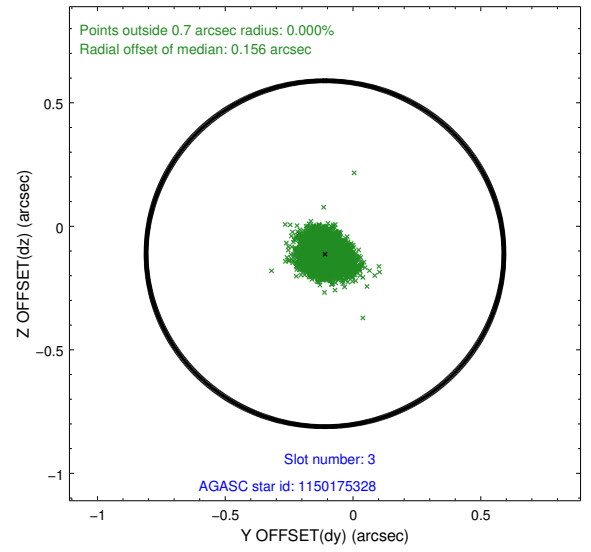
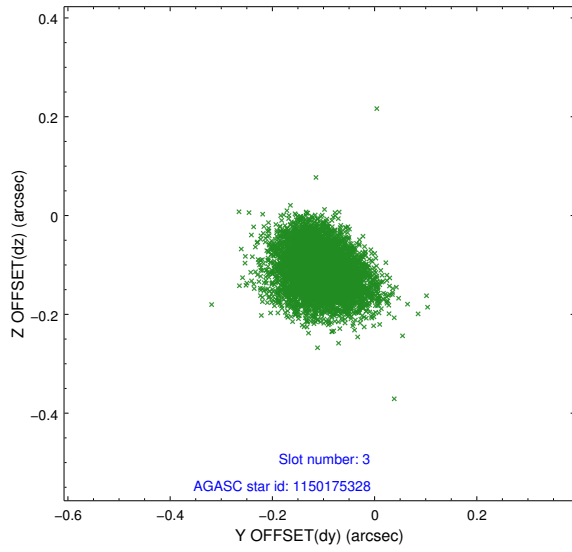


Slot Statistics

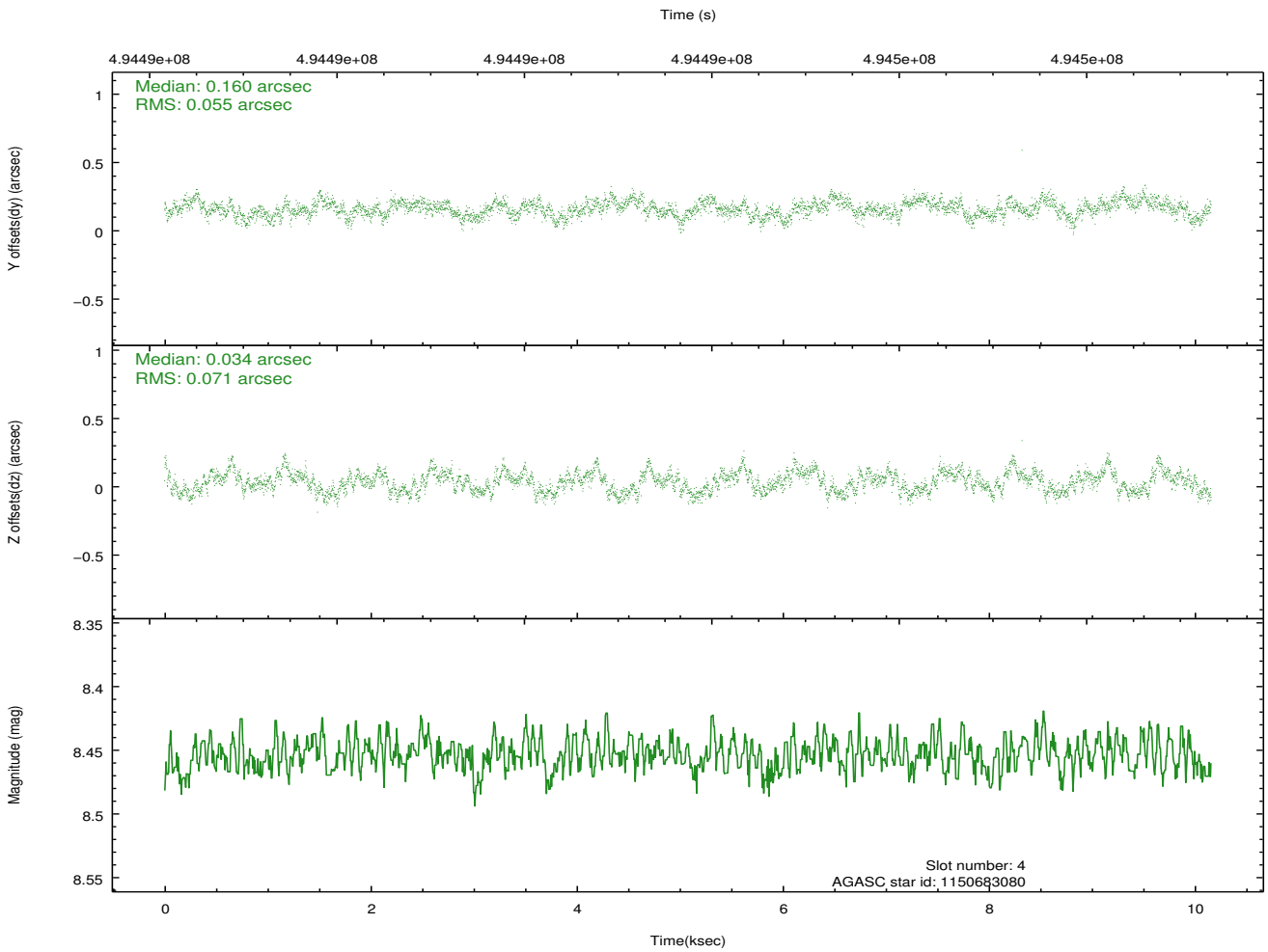
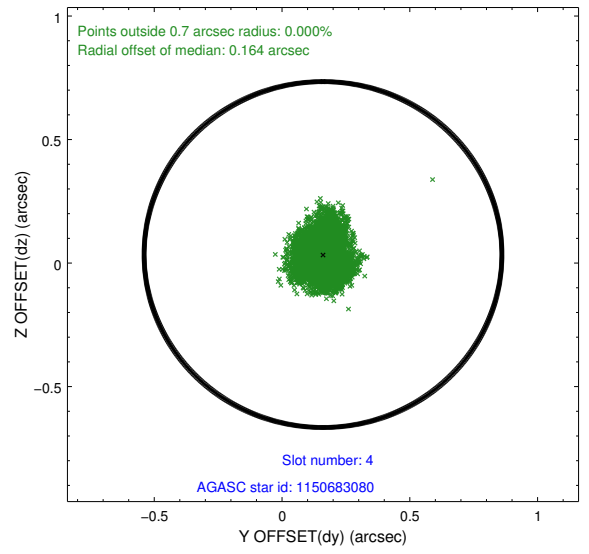
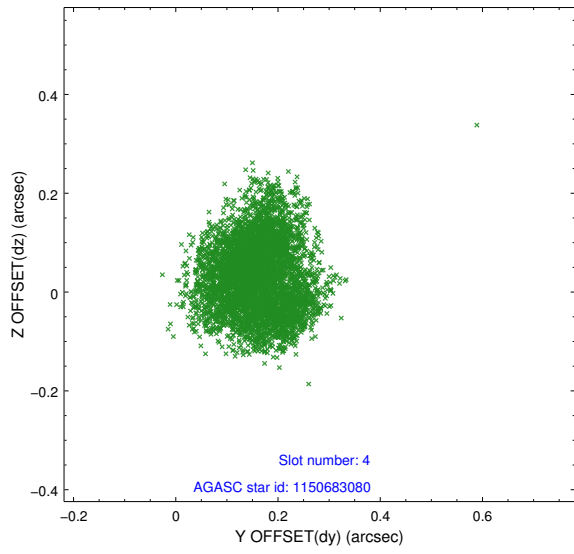
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.99	2478	-0.142	-0.086	0.013	0.020	0.000000	0.000000	-775.90	-1006.68
1	FID		ACIS-I-4	6.96	2478	0.253	0.104	0.009	0.019	0.000000	0.000000	2138.20	899.42
2	FID		ACIS-I-5	7.02	2477	-0.210	0.053	0.014	0.030	0.000000	0.000000	-1828.80	896.67
3	GUIDE	used	1150175328	7.56	4956	-0.110	-0.111	0.069	0.111	298.471585	-54.366247	-1551.90	2288.67
4	GUIDE	used	1150683080	8.45	4955	0.160	0.034	0.098	0.148	297.306836	-54.888638	-1510.12	-781.71
5	GUIDE	used	1150685296	8.24	4931	-0.019	-0.150	0.098	0.153	297.953238	-55.420860	820.57	-863.83
6	GUIDE	used	1150695592	8.83	4936	0.096	0.030	0.108	0.189	297.813662	-55.852602	1892.39	-2025.02
7	GUIDE	used	1150683784	8.65	4935	-0.133	0.194	0.089	0.145	296.840045	-54.917208	-1998.65	-1621.91

2.4 Star Slots

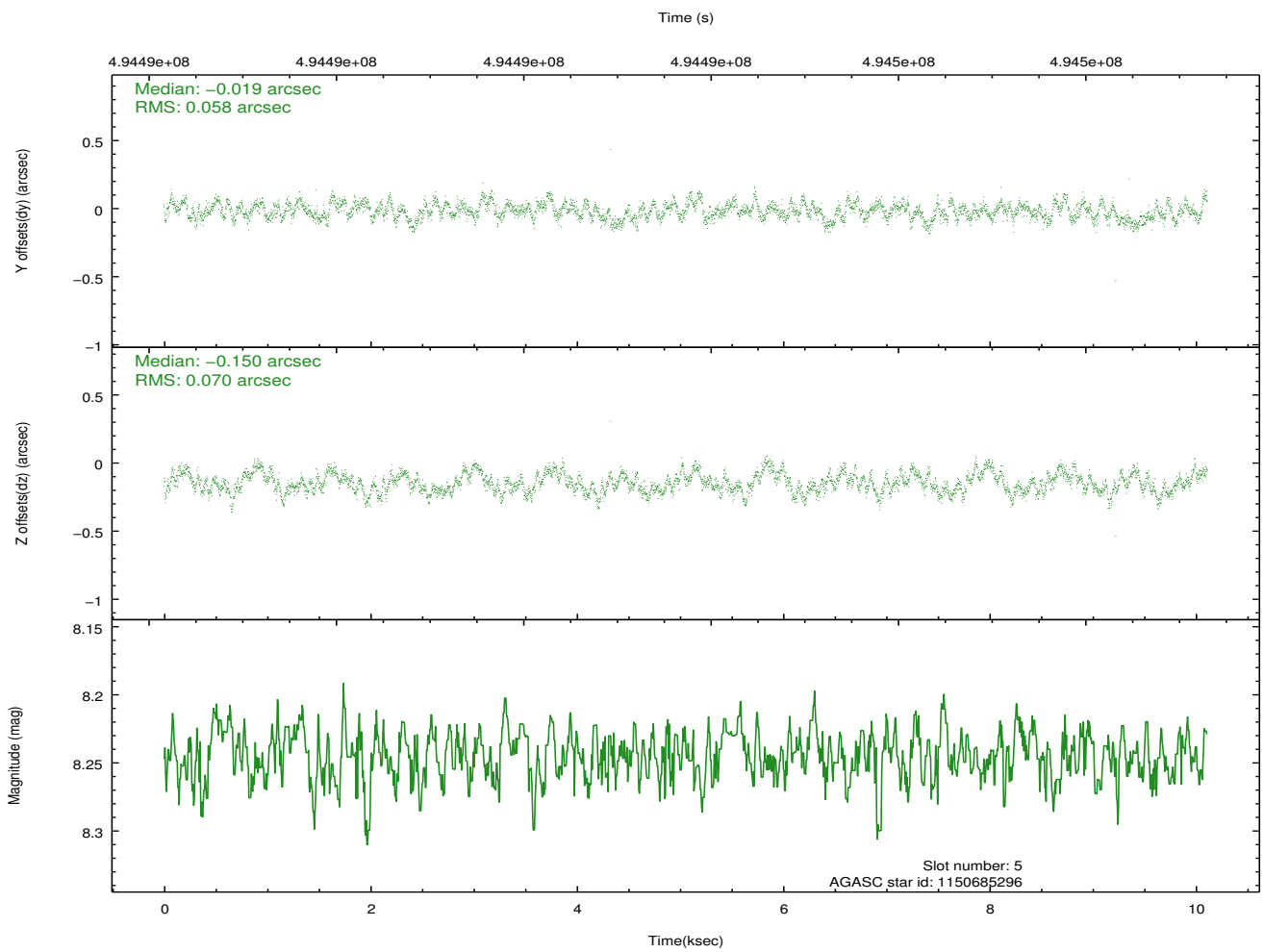
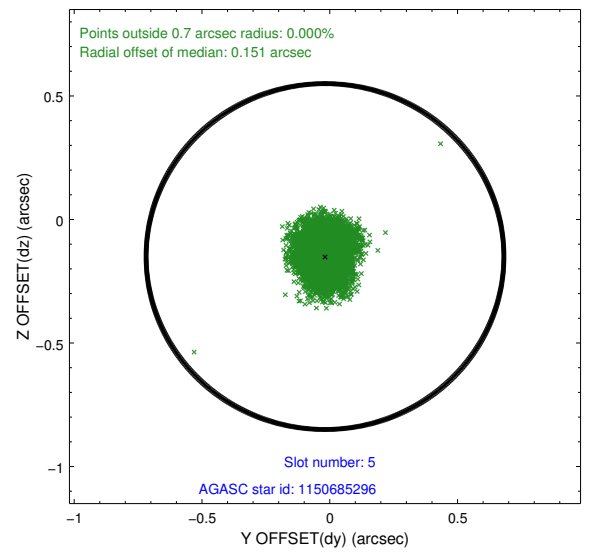
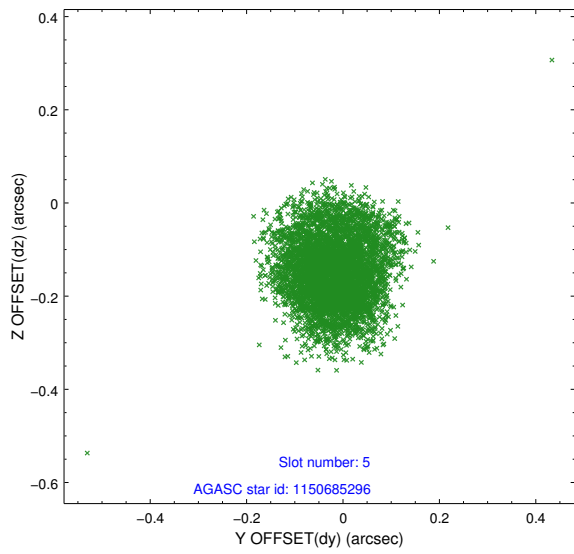
2.4.1 Slot 3



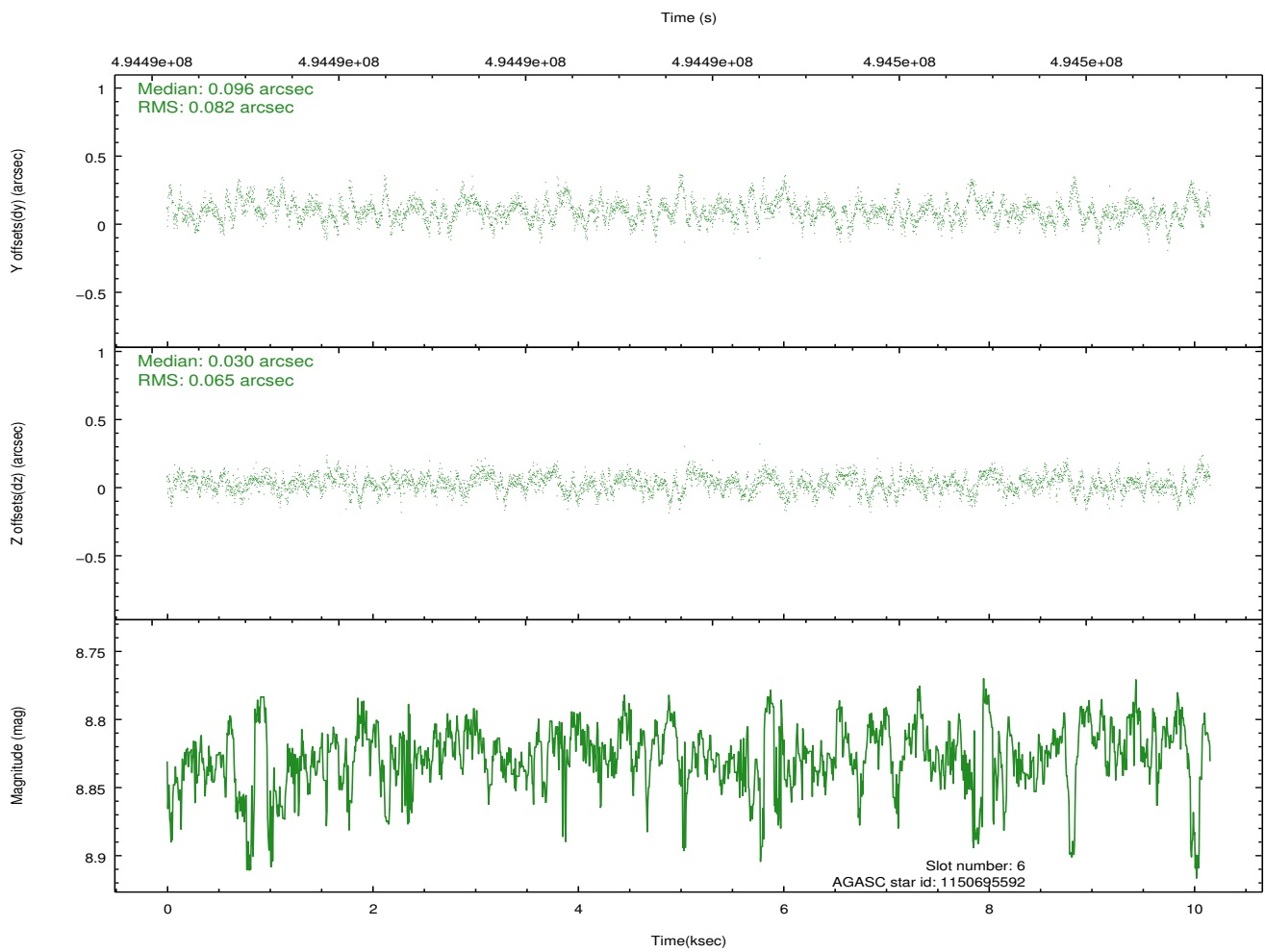
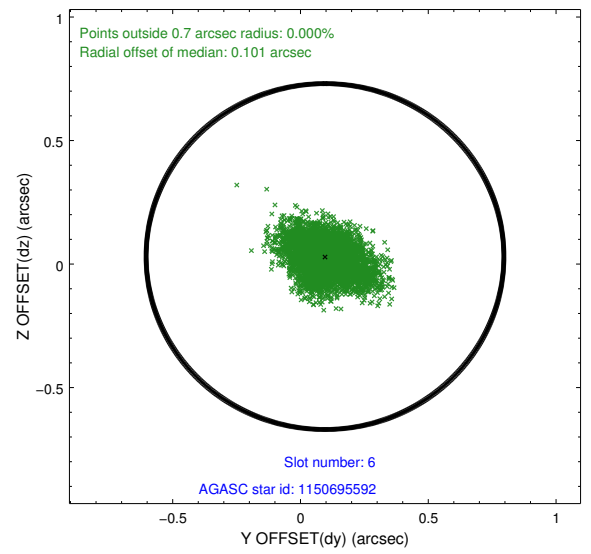
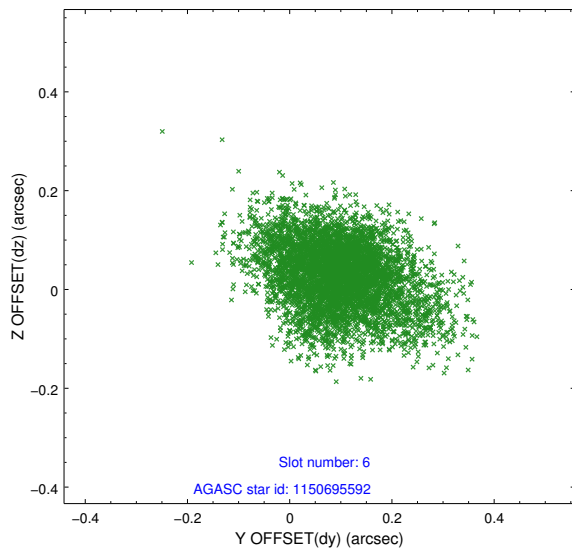
2.4.2 Slot 4



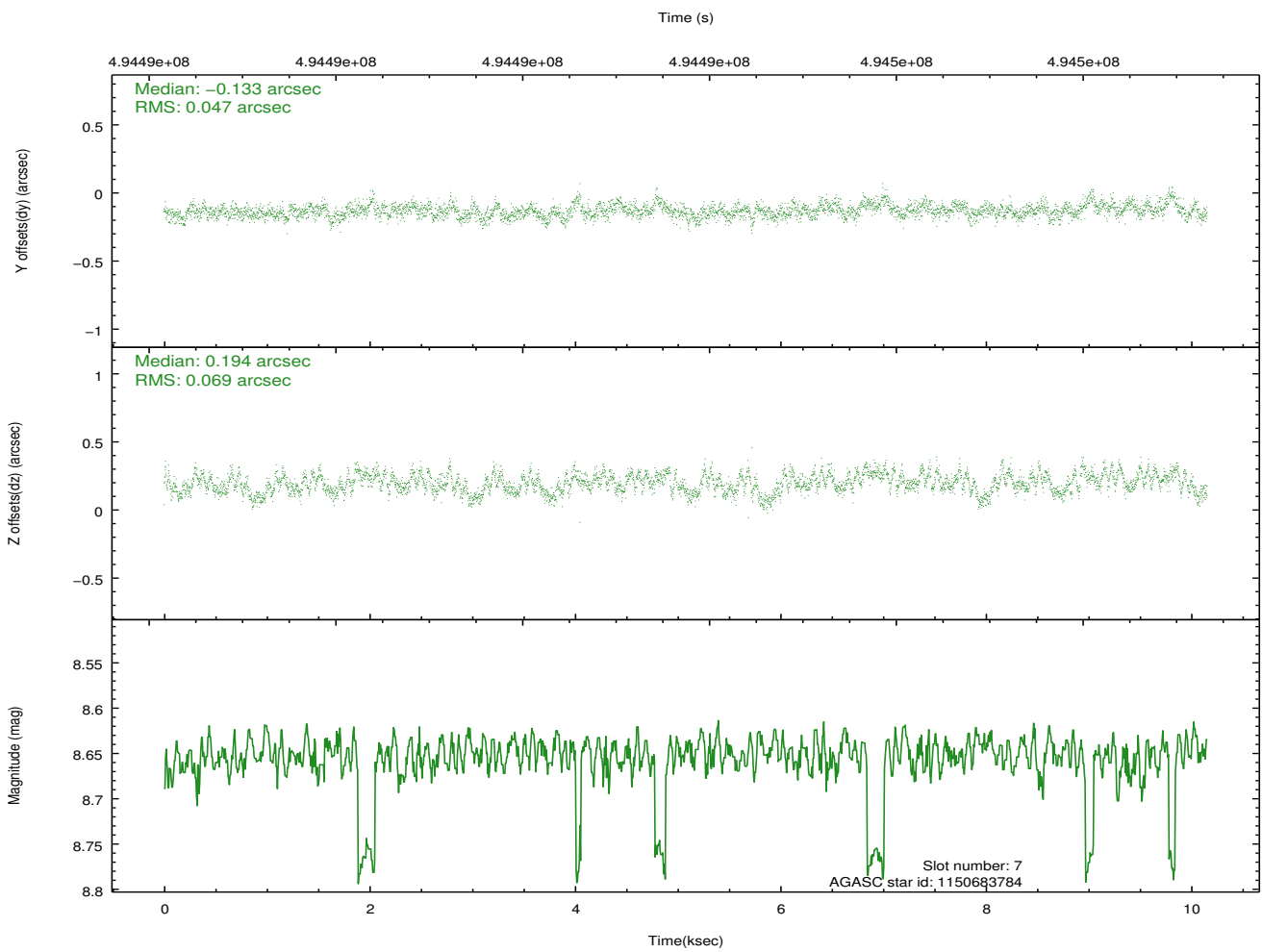
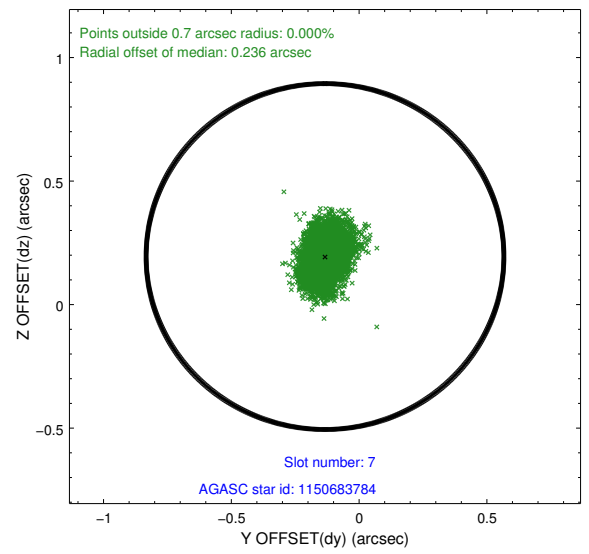
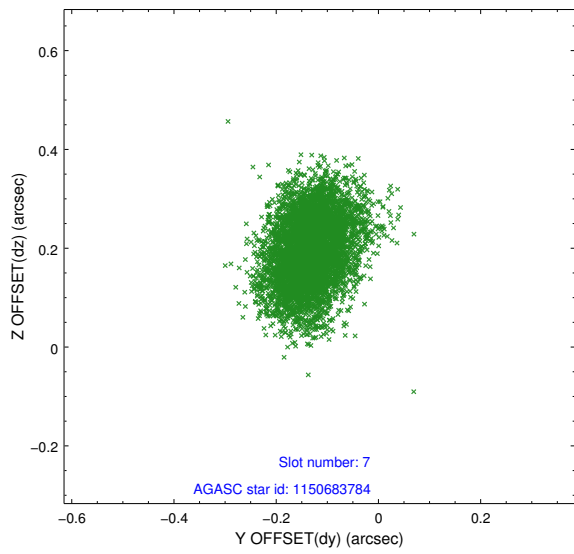
2.4.3 Slot 5



2.4.4 Slot 6

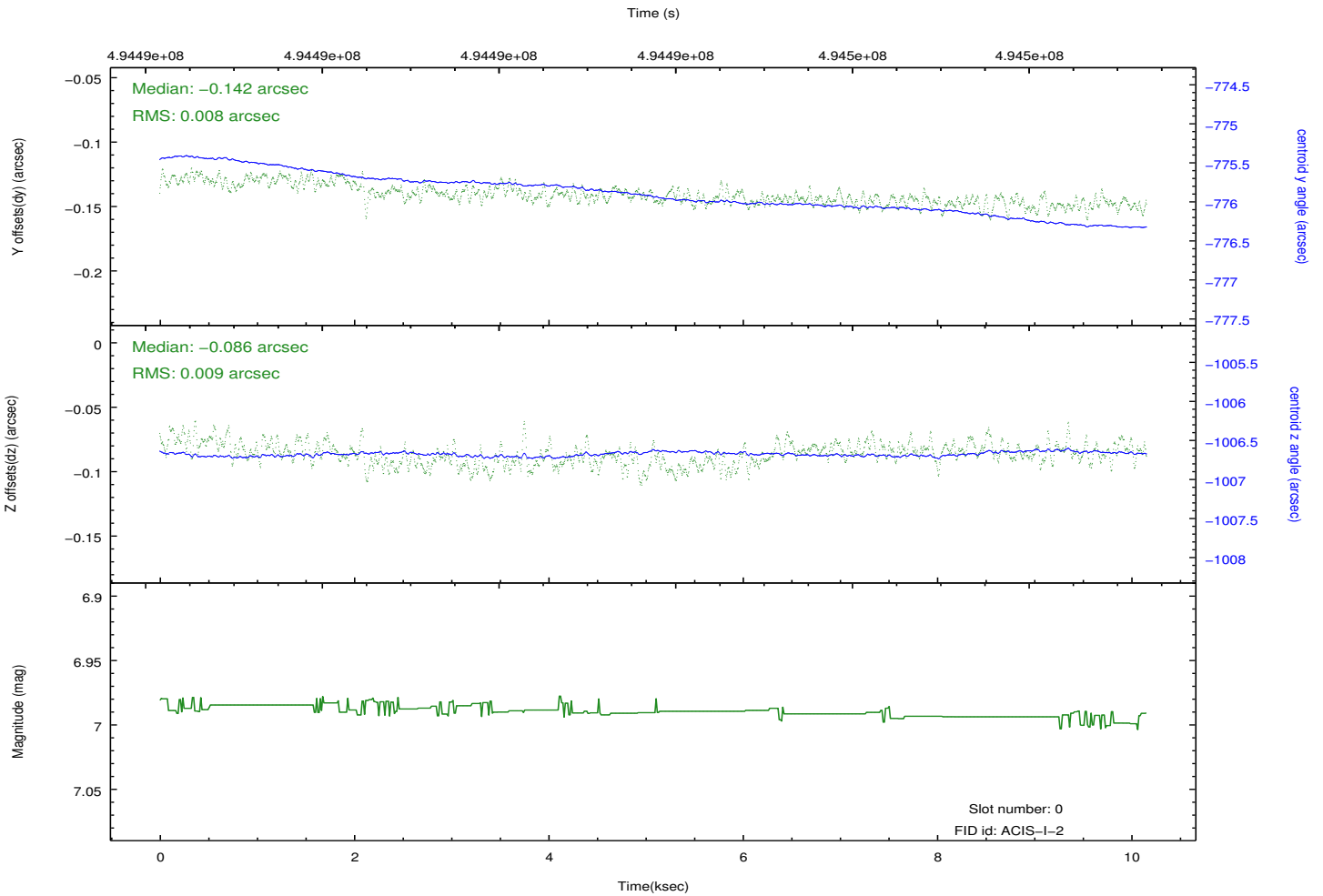
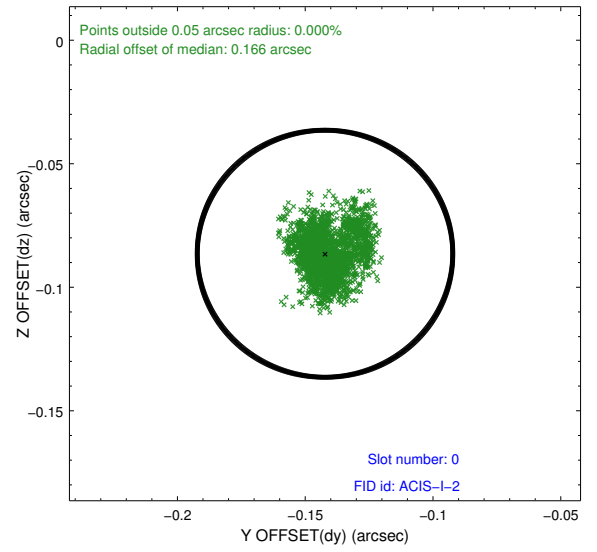
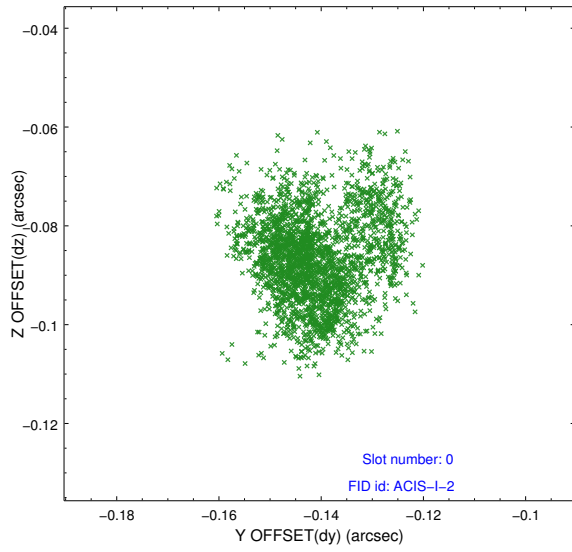


2.4.5 Slot 7

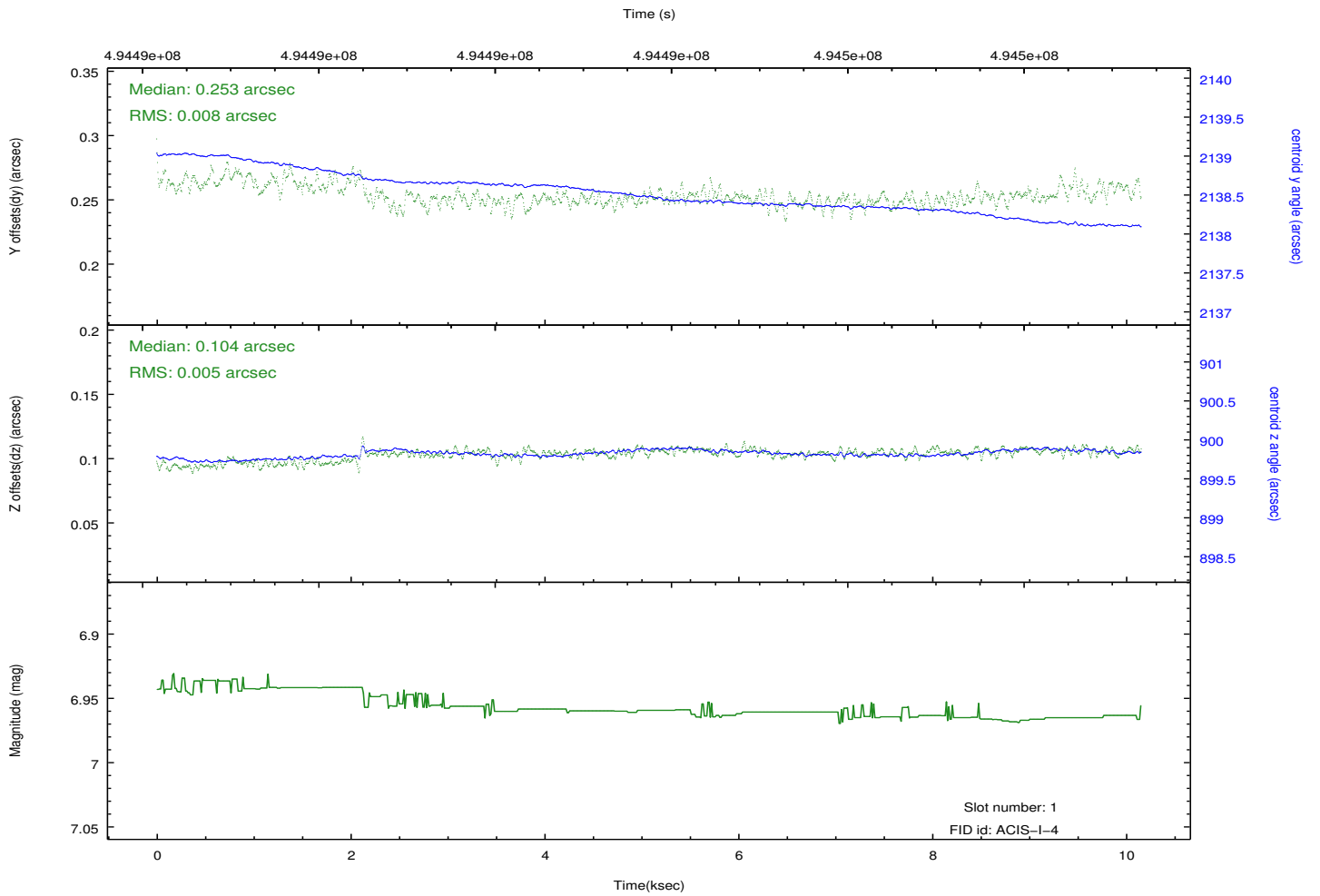
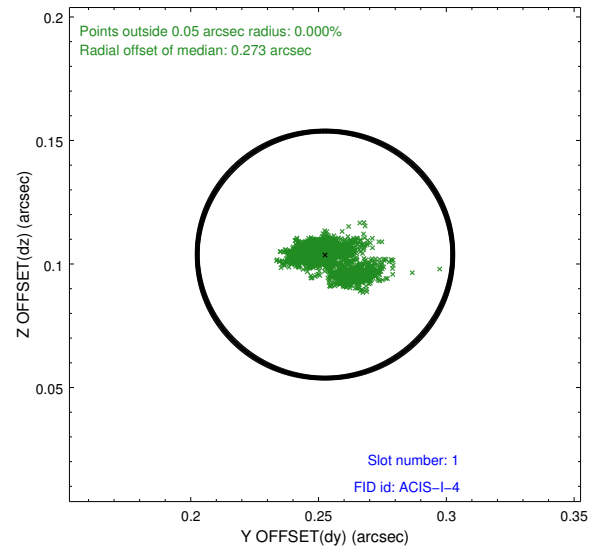
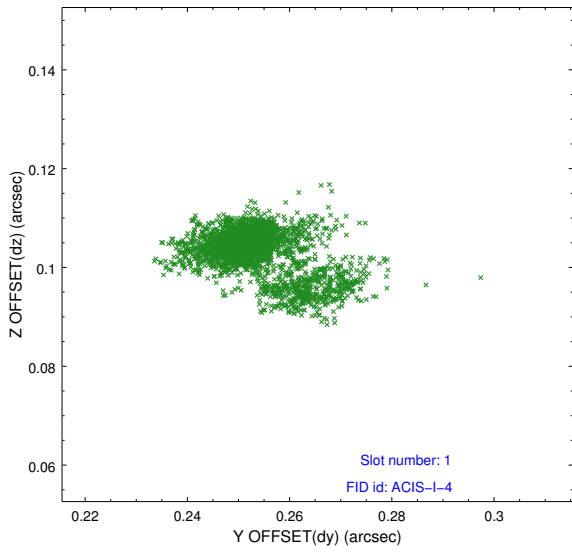


2.5 FID Slots

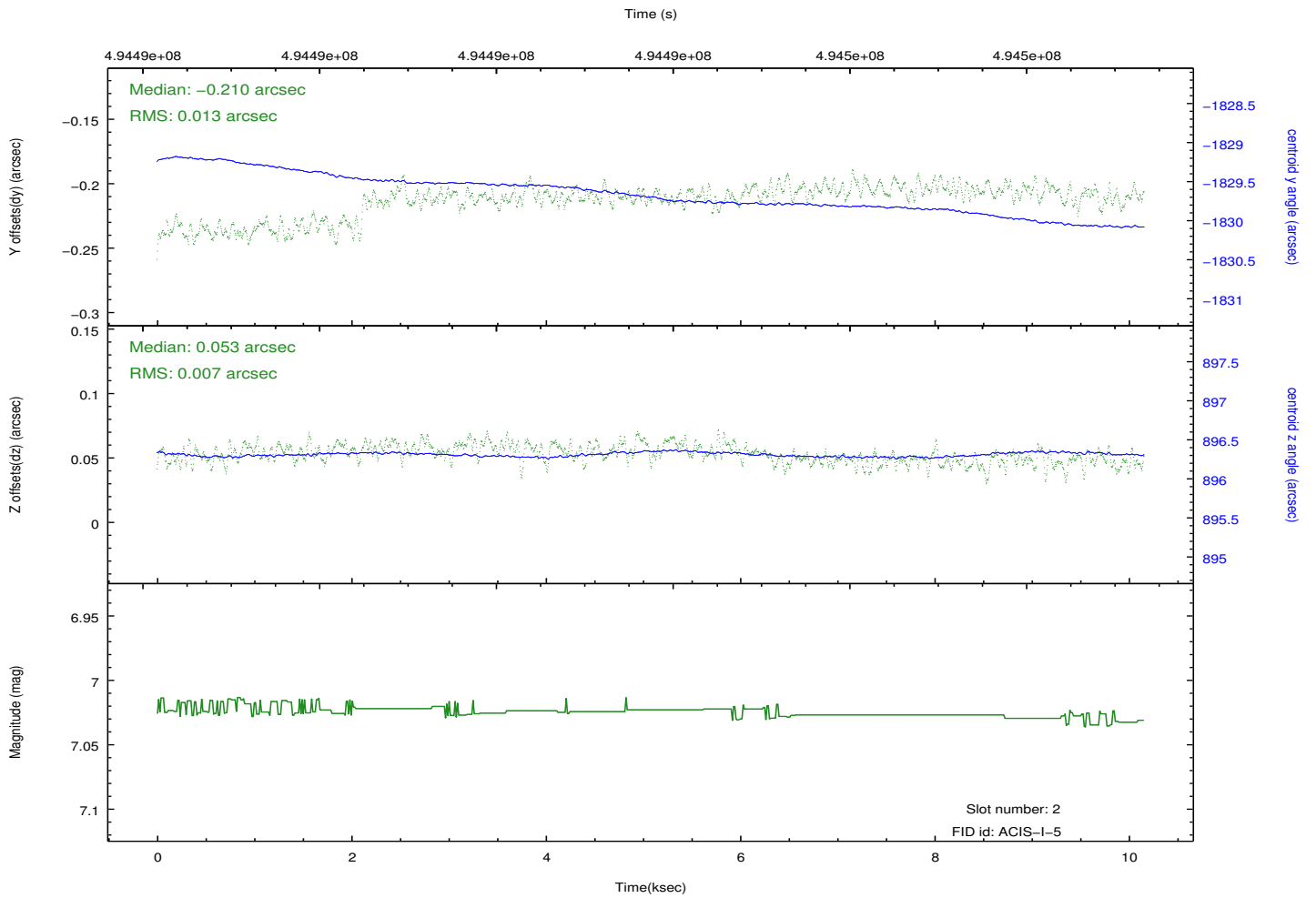
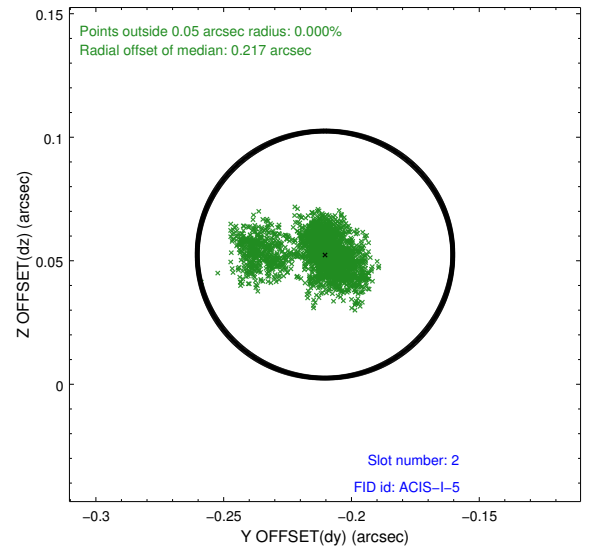
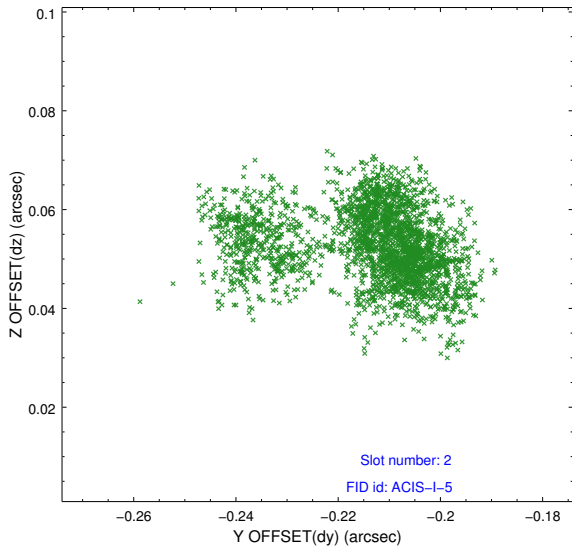
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.087267892241

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.