

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14437 - L2 Version 2
Chandra X-Ray Center

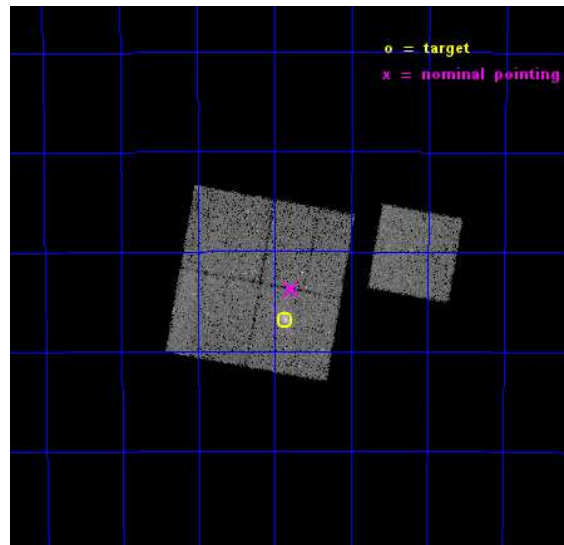
L2 Processing Date : Nov 27 2014

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1 Front

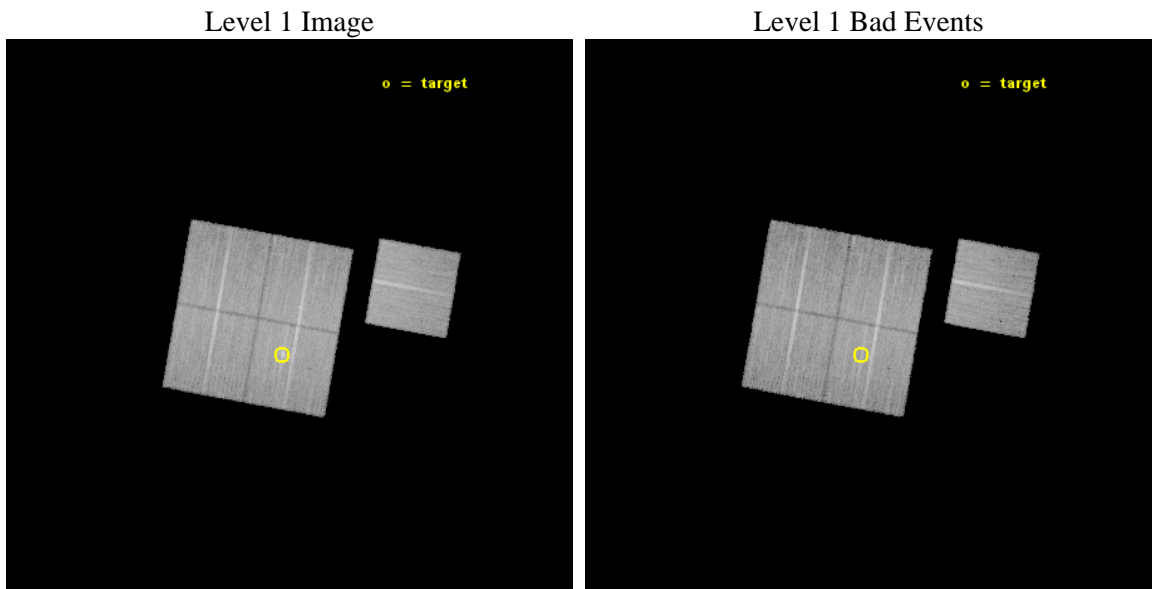
seq_num	801197	Sequence number
obs_id	14437	Observation id
title	A DETAILED CHANDRA/HST STUDY OF THE FIRST z approx 1 CLUSTER BLINDLY DISCOVERED IN THE PLANCK ALL SKY SURVEY	Proposal title
observer	Dr. Pasquale Mazzotta	Principal investigator
object	PLCKG266.6-27.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	93.966667	Observer's specified target RA [deg]
dec_targ	-57.781	Observer's specified target Dec [deg]
ra_nom	93.945302439561	Nominal RA [deg]
dec_nom	-57.730365127928	Nominal Dec [deg]
roll_nom	100.1906243542	Nominal Roll [deg]
revision	2	Processing version of data
ontime	26278.700202107	Sum of GTIs [s]
livetime	25935.349637869	Livetime [s]
ontime0	26275.559181929	Sum of GTIs [s]
ontime1	26269.27724117	Sum of GTIs [s]
ontime2	26272.418221653	Sum of GTIs [s]
ontime3	26278.700202107	Sum of GTIs [s]
ontime6	26275.559231758	Sum of GTIs [s]
l2events	75024	Number of level 2 events



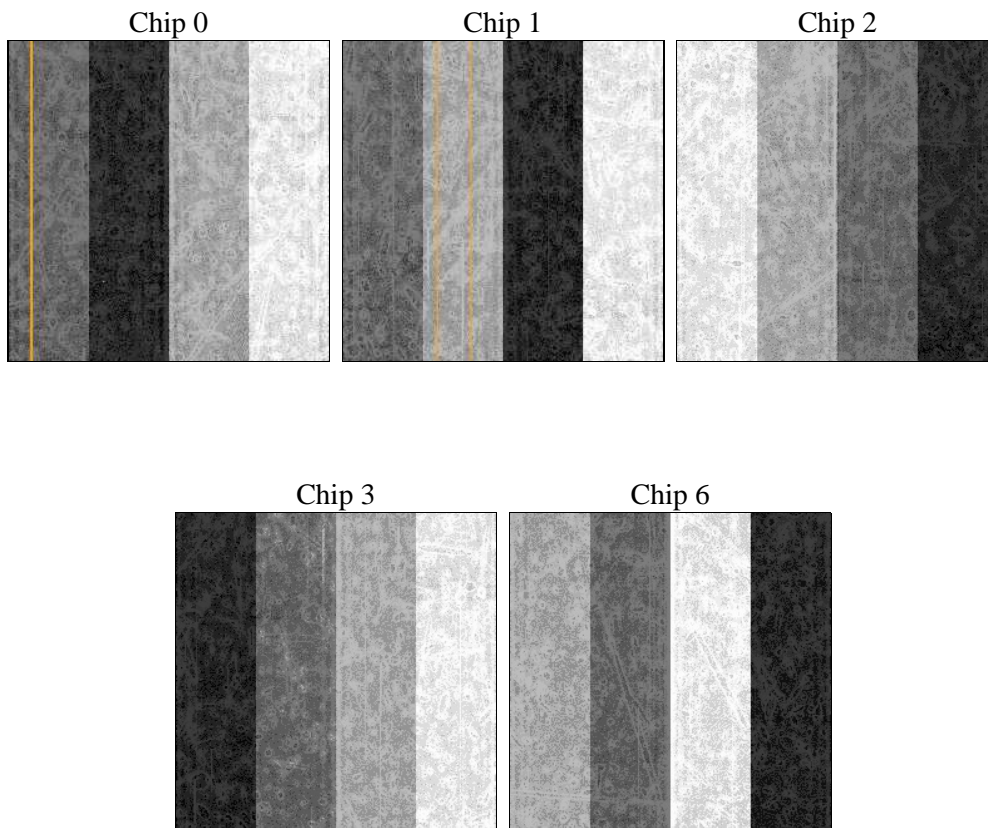
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26195.413000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	26278.700202107	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	26275.559181929	Sum of GTIs [s]
date	2014-11-27T04:37:36	Date and time of file creation	ontime1	26269.27724117	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	26272.418221653	Sum of GTIs [s]
			ontime3	26278.700202107	Sum of GTIs [s]
			ontime6	26275.559231758	Sum of GTIs [s]
			l1events	675135	Number of level 1 events

2.1.4 Events

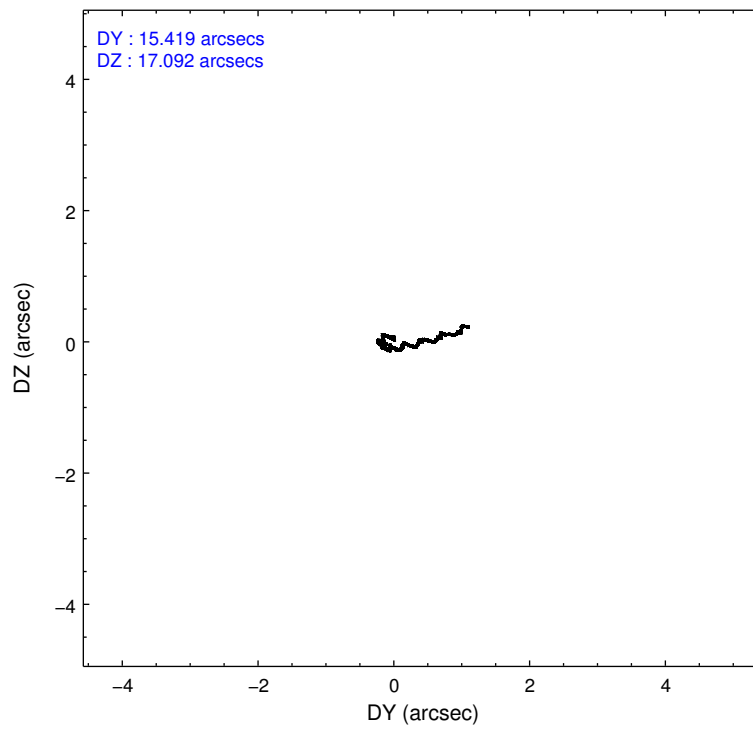
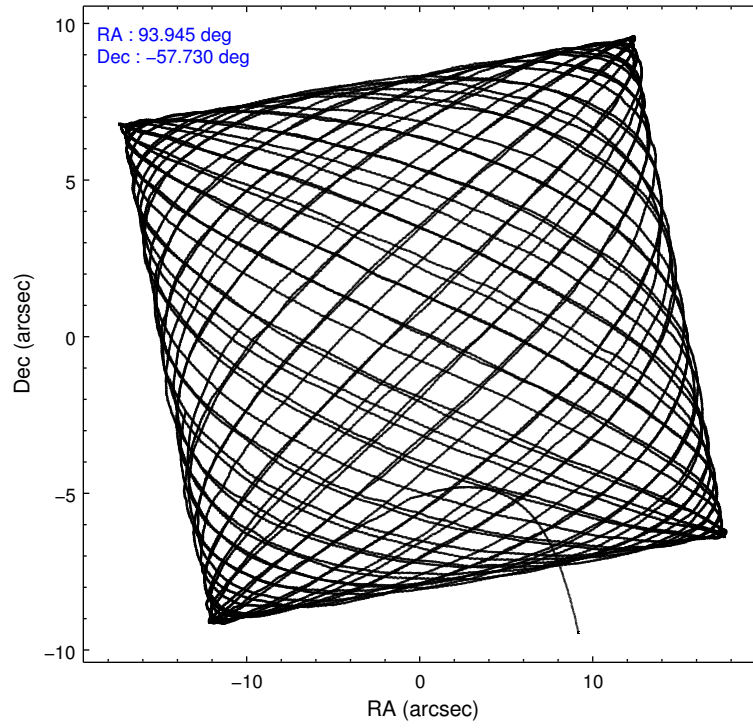
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	127183	129819	139038	140894	138201
rejected events	110667	111631	121931	121663	120892
rejected %	87%	85%	87%	86%	87%

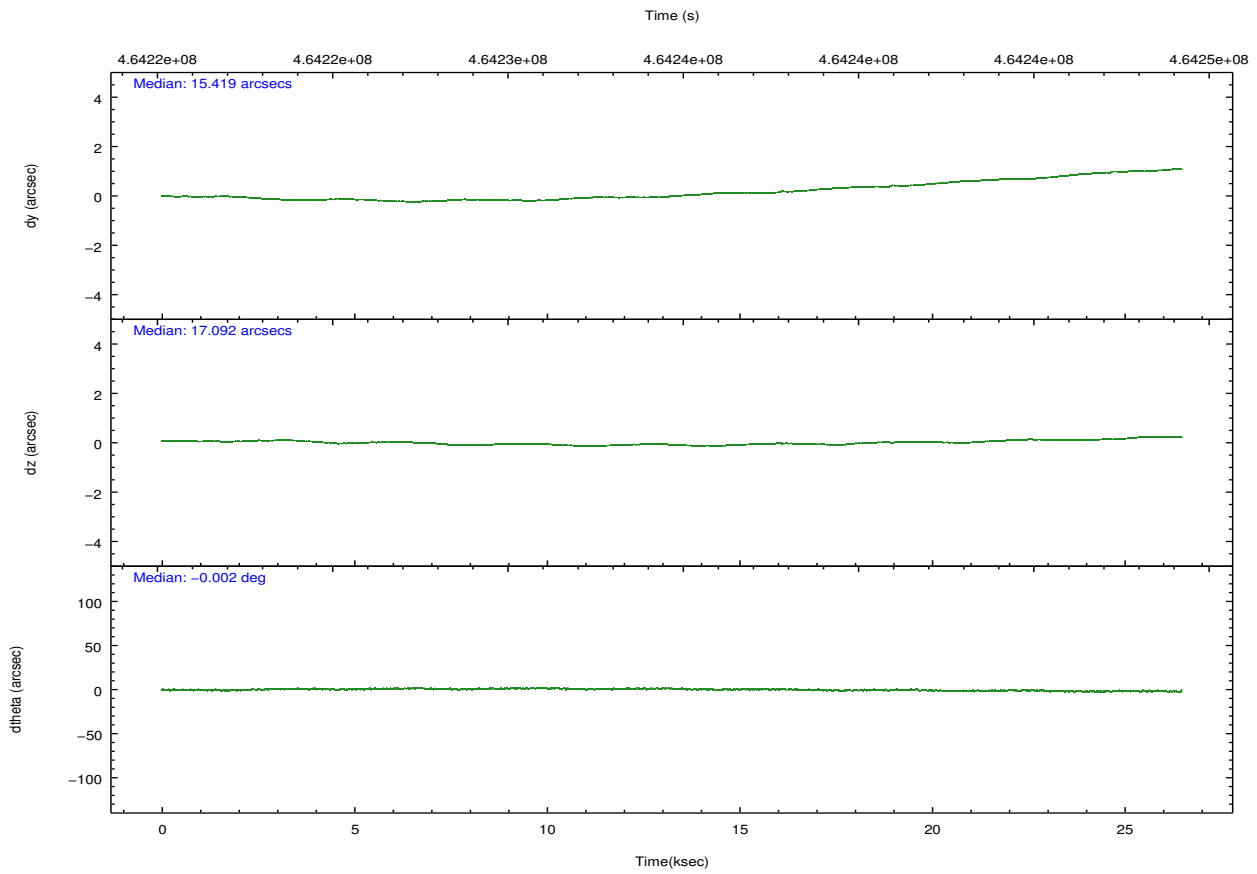
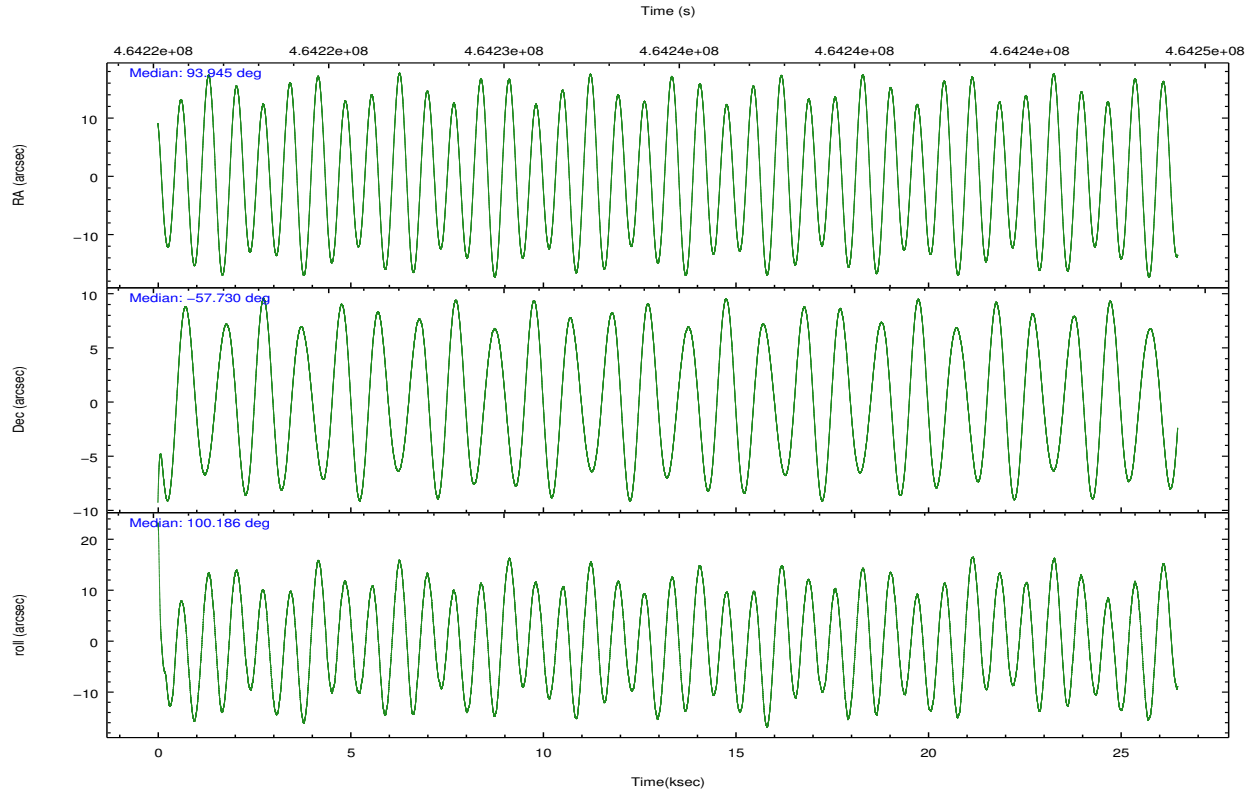
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5815	6360	6786	8290	6199
	4%	4%	4%	5%	4%
grade 1 events	77	87	87	95	62
	0%	0%	0%	0%	0%
grade 2 events	4035	4411	3905	3830	3839
	3%	3%	2%	2%	2%
grade 3 events	1701	1805	1614	1901	1760
	1%	1%	1%	1%	1%
grade 4 events	1610	1737	1718	1780	1745
	1%	1%	1%	1%	1%
grade 5 events	6385	6812	6004	7307	7107
	5%	5%	4%	5%	5%
grade 6 events	3355	3878	3086	3433	3768
	2%	2%	2%	2%	2%
grade 7 events	104205	104729	115838	114258	113721
	81%	80%	83%	81%	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	93.978723	93.94530243956125	CCD I2 on	Y	Y
[deg] Pointing Dec	-57.751262	-57.73036512792807	CCD I3 on	Y	Y
[deg] Pointing Roll	100.010196	100.1906243542001	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	464221712.184000	464220723.9361	CCD S5 on	N	N
Observation start date	2012-09-16T22:27:25	2012-09-16T22:12:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	464247907.184000	464248142.17506	On-chip summing requested	N	N
Observation end date	2012-09-17T05:44:00	2012-09-17T05:49:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





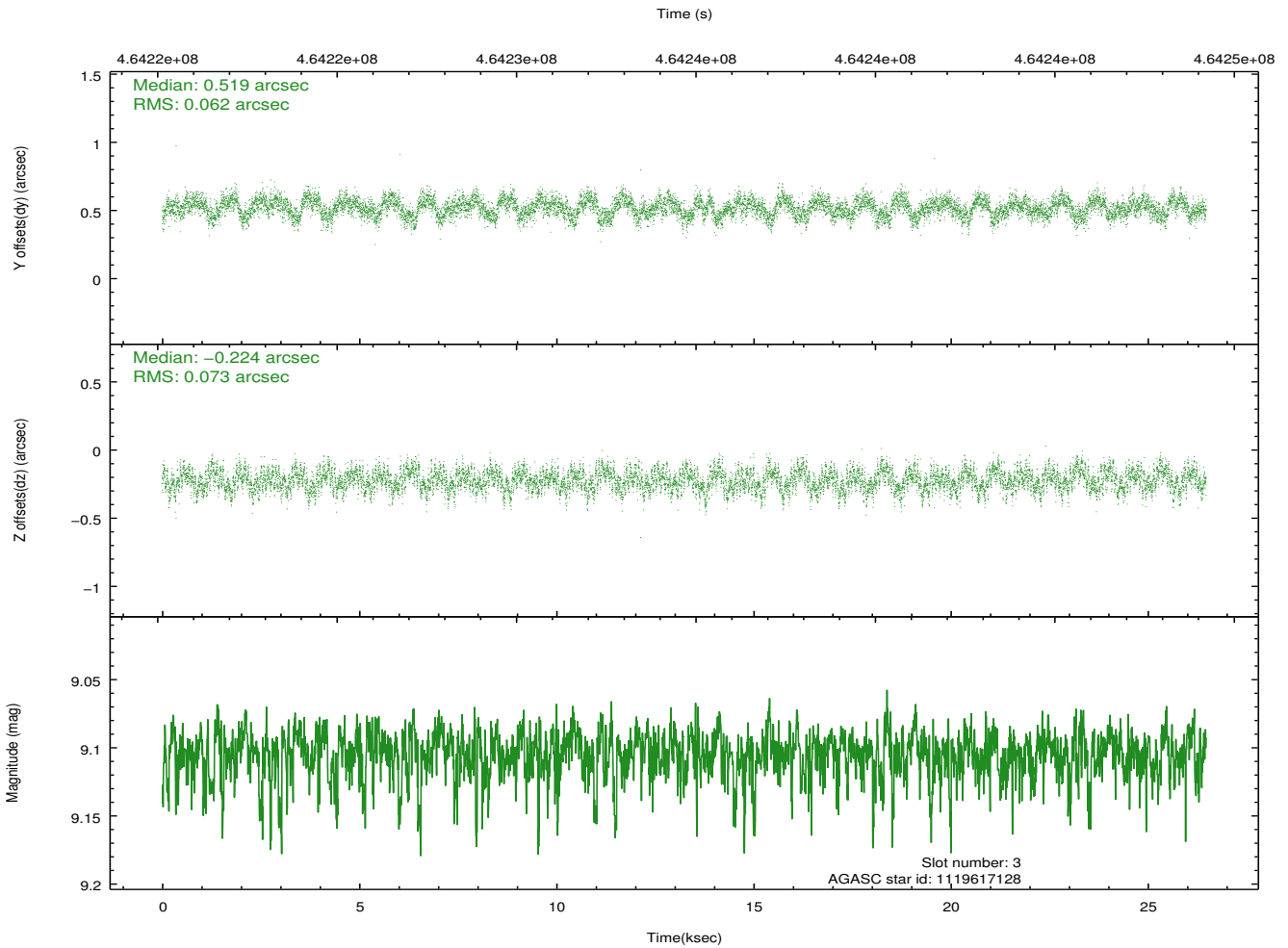
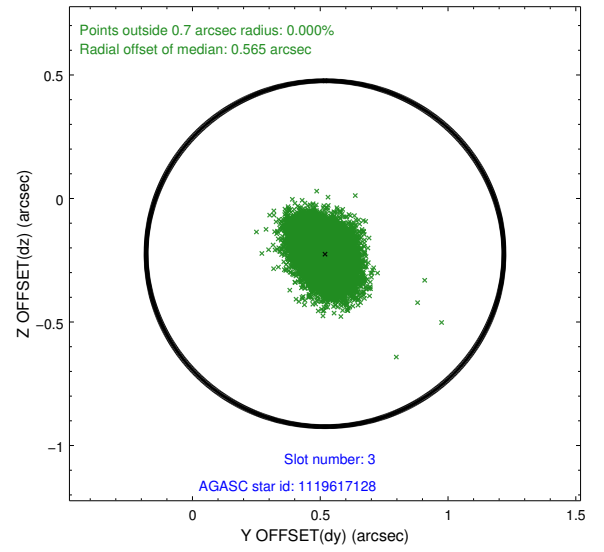
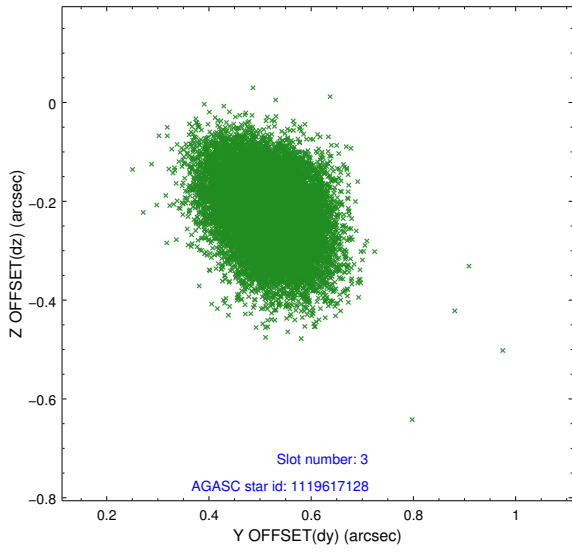
Slot Statistics

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	6458	0.169	-0.113	0.011	0.018	0.000000	0.000000	923.86	-999.94
1	FID		ACIS-I-5	7.07	6458	-0.316	0.138	0.012	0.017	0.000000	0.000000	-1824.69	897.70
2	FID		ACIS-I-6	7.09	6458	0.057	0.046	0.011	0.016	0.000000	0.000000	389.16	1542.25
3	GUIDE	used	1119617128	9.10	12896	0.519	-0.224	0.103	0.164	93.986624	-58.000911	-886.66	141.30
4	GUIDE	used	1119618216	8.94	12849	-0.326	-0.115	0.100	0.157	93.911968	-57.701545	199.20	95.03
5	GUIDE	used	1119619792	9.40	12874	-0.070	-0.088	0.112	0.190	93.499770	-57.916921	-430.92	1006.19
6	GUIDE	used	1119620096	8.99	12893	0.018	0.234	0.099	0.160	94.803811	-58.054312	-1355.87	-1356.28
7	GUIDE	used	1119617976	8.01	12841	-0.141	0.190	0.067	0.109	94.543198	-57.336411	1276.32	-1338.44

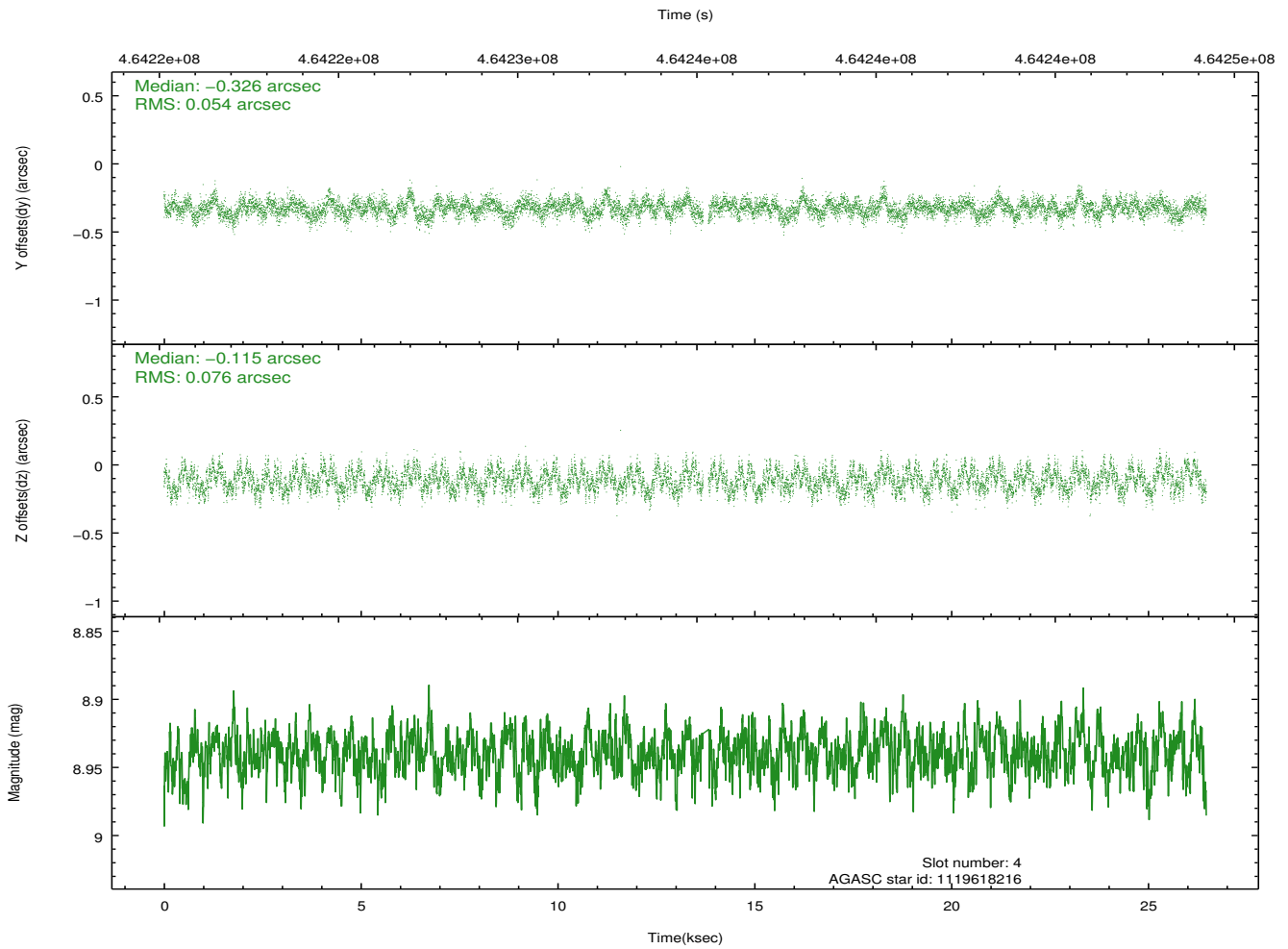
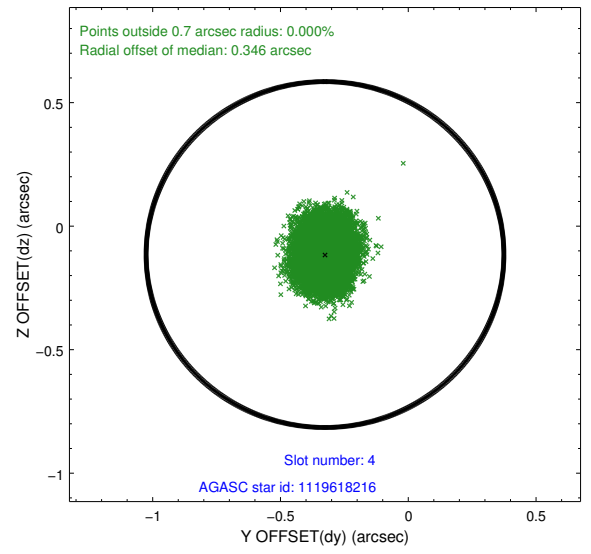
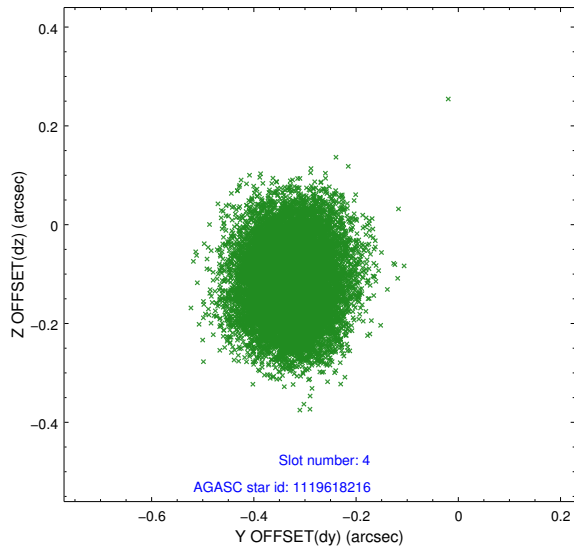
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2.4 Star Slots

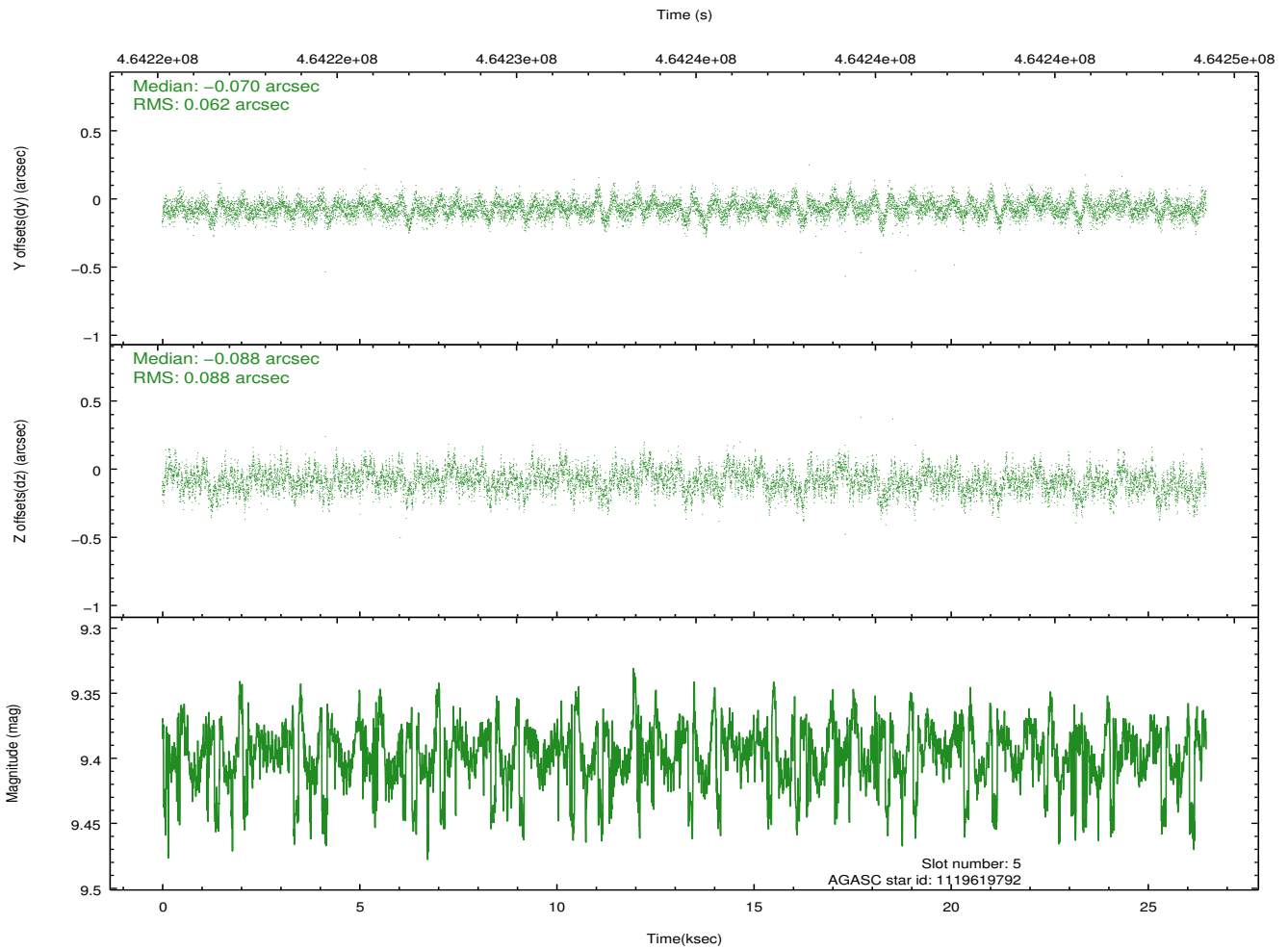
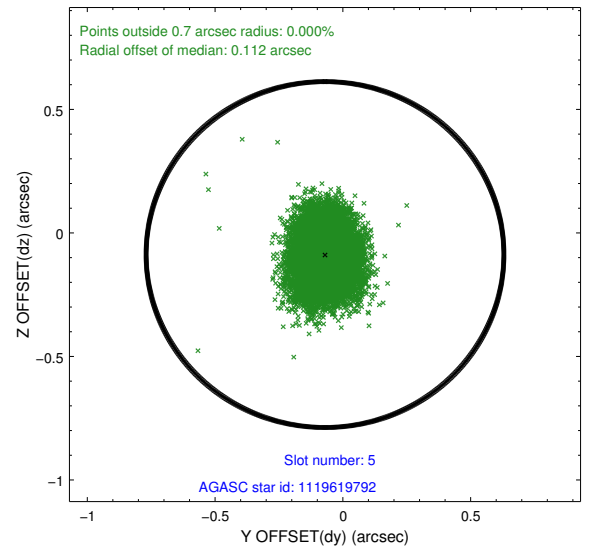
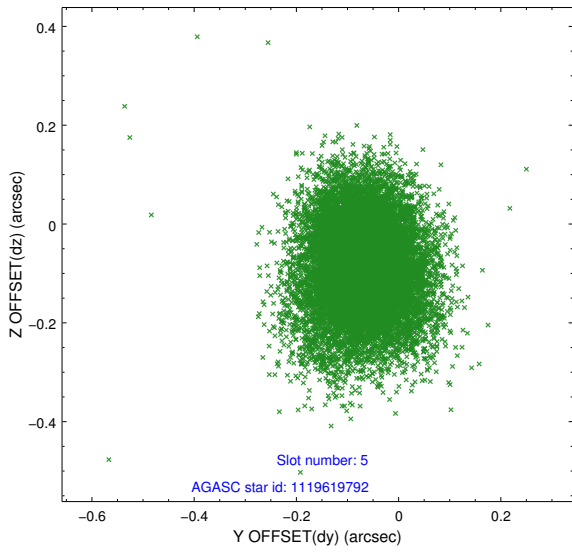
2.4.1 Slot 3



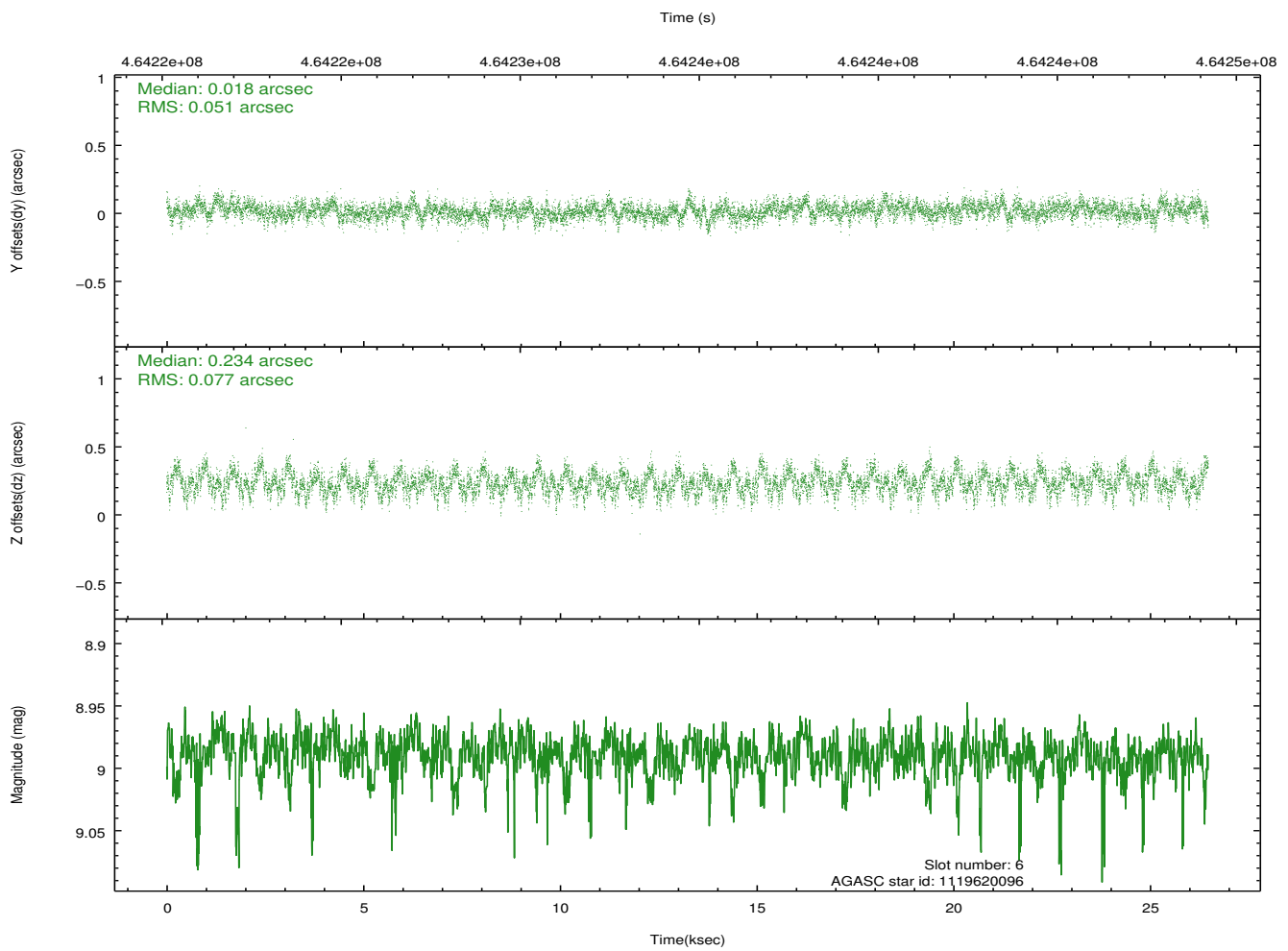
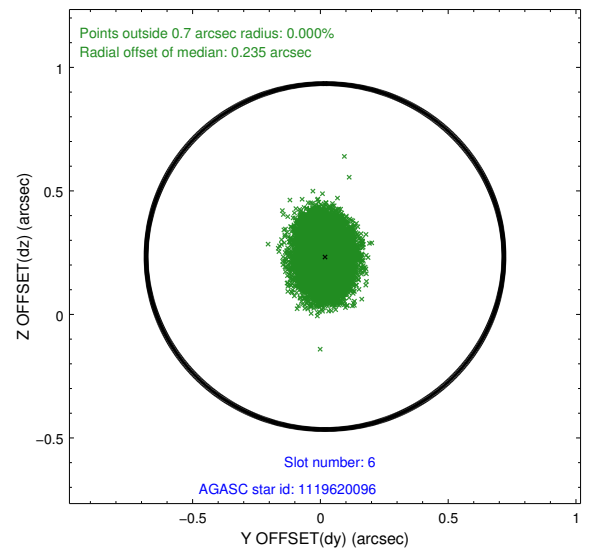
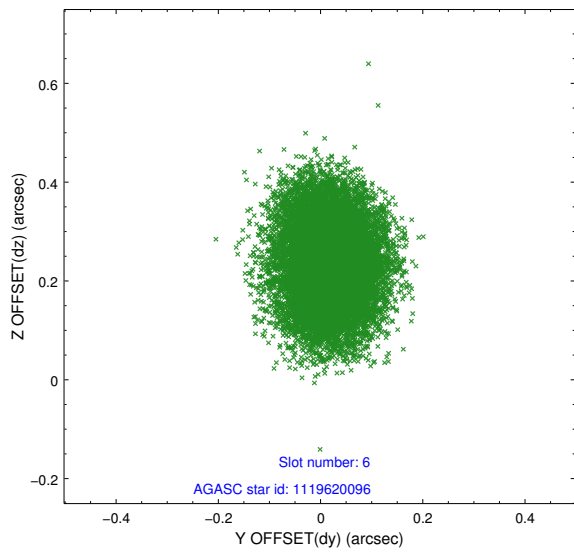
2.4.2 Slot 4



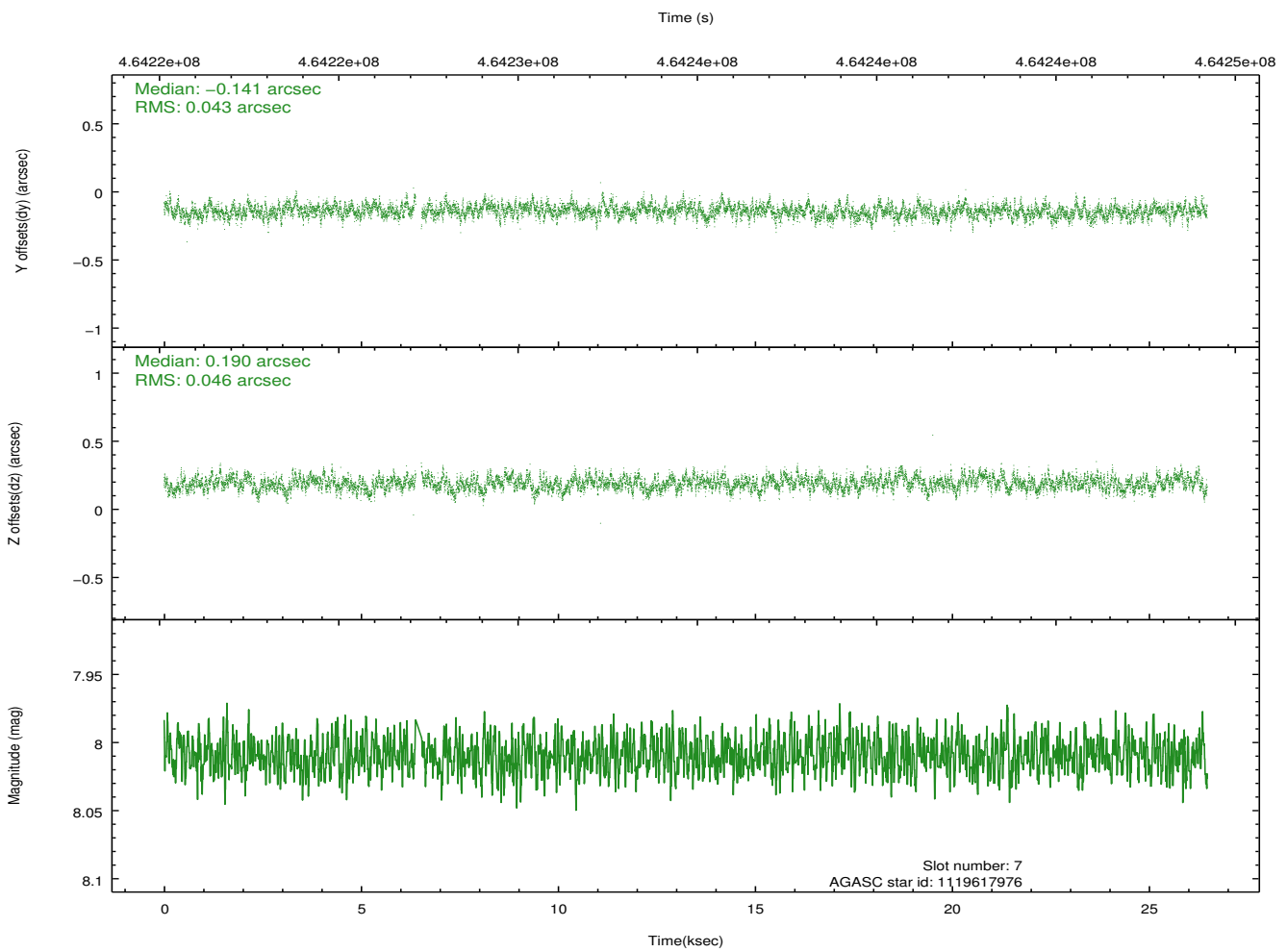
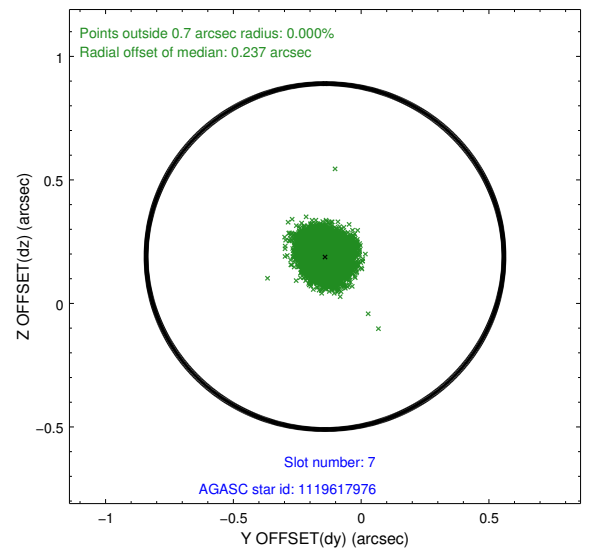
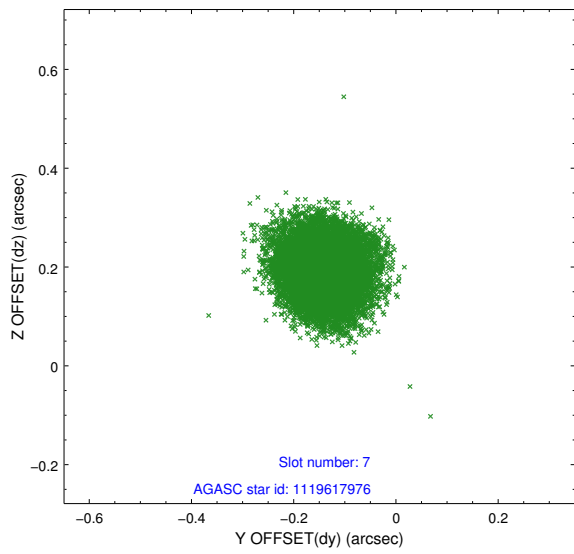
2.4.3 Slot 5



2.4.4 Slot 6

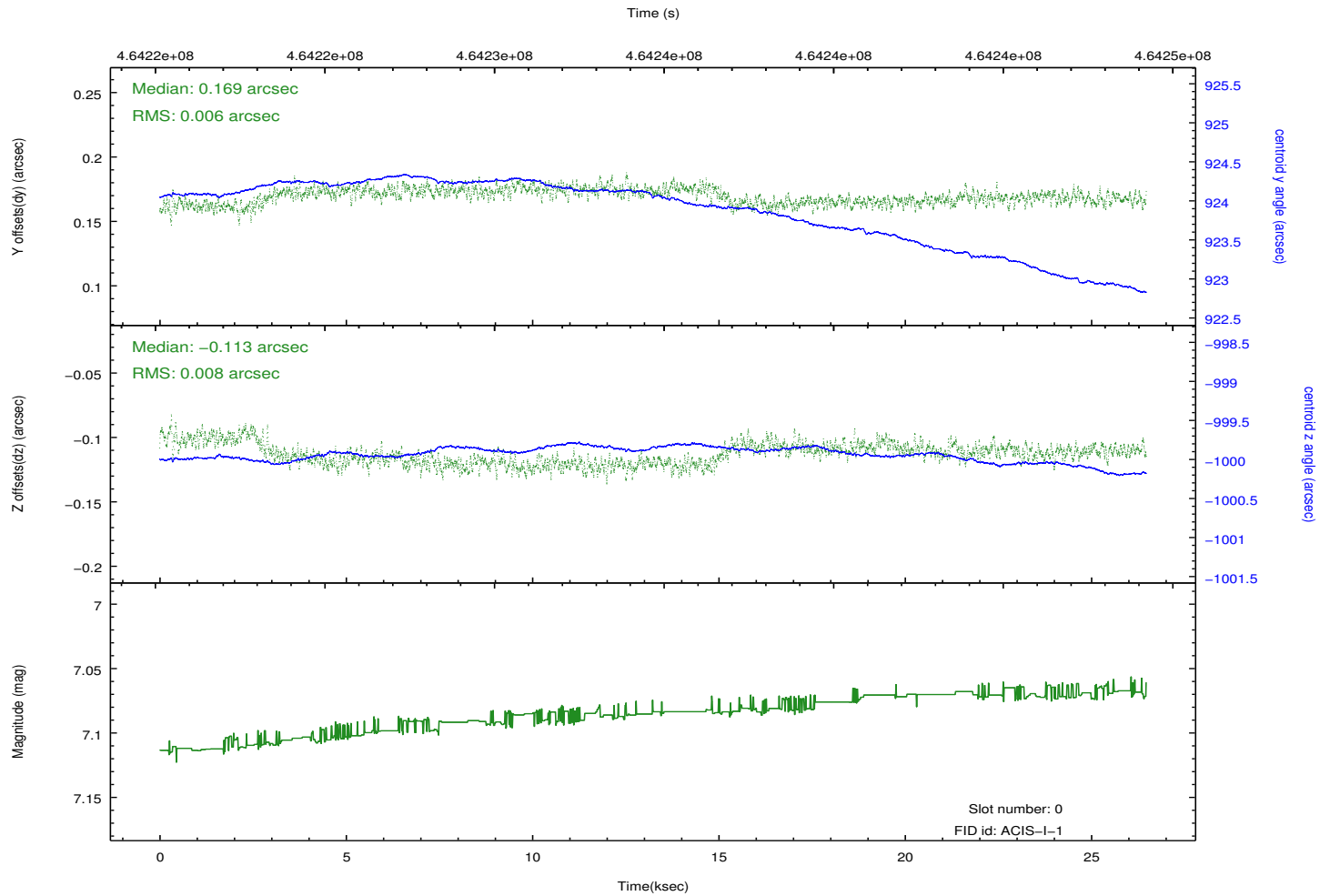
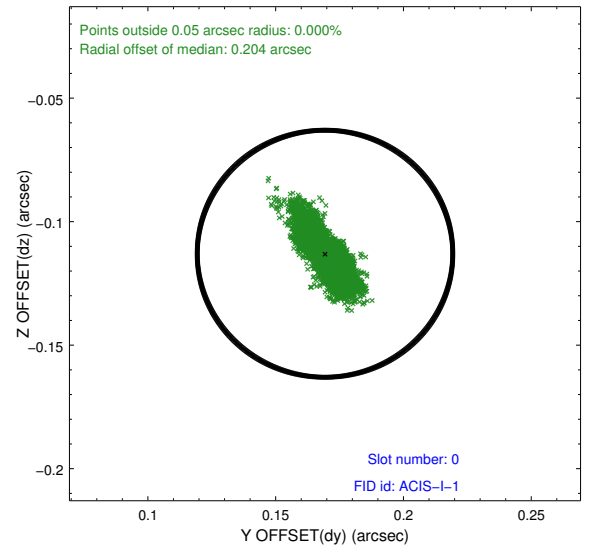
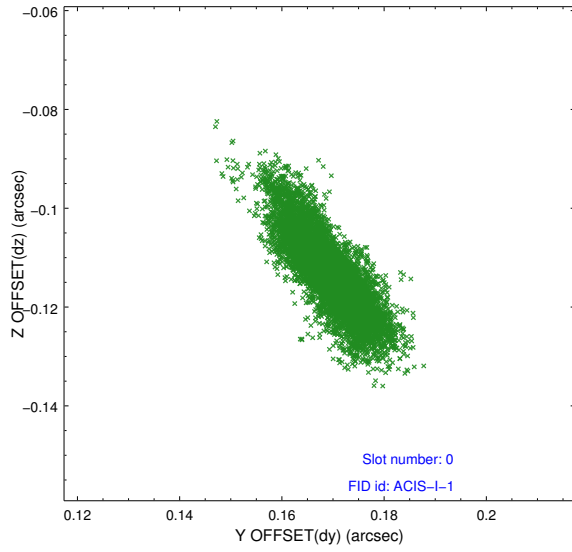


2.4.5 Slot 7

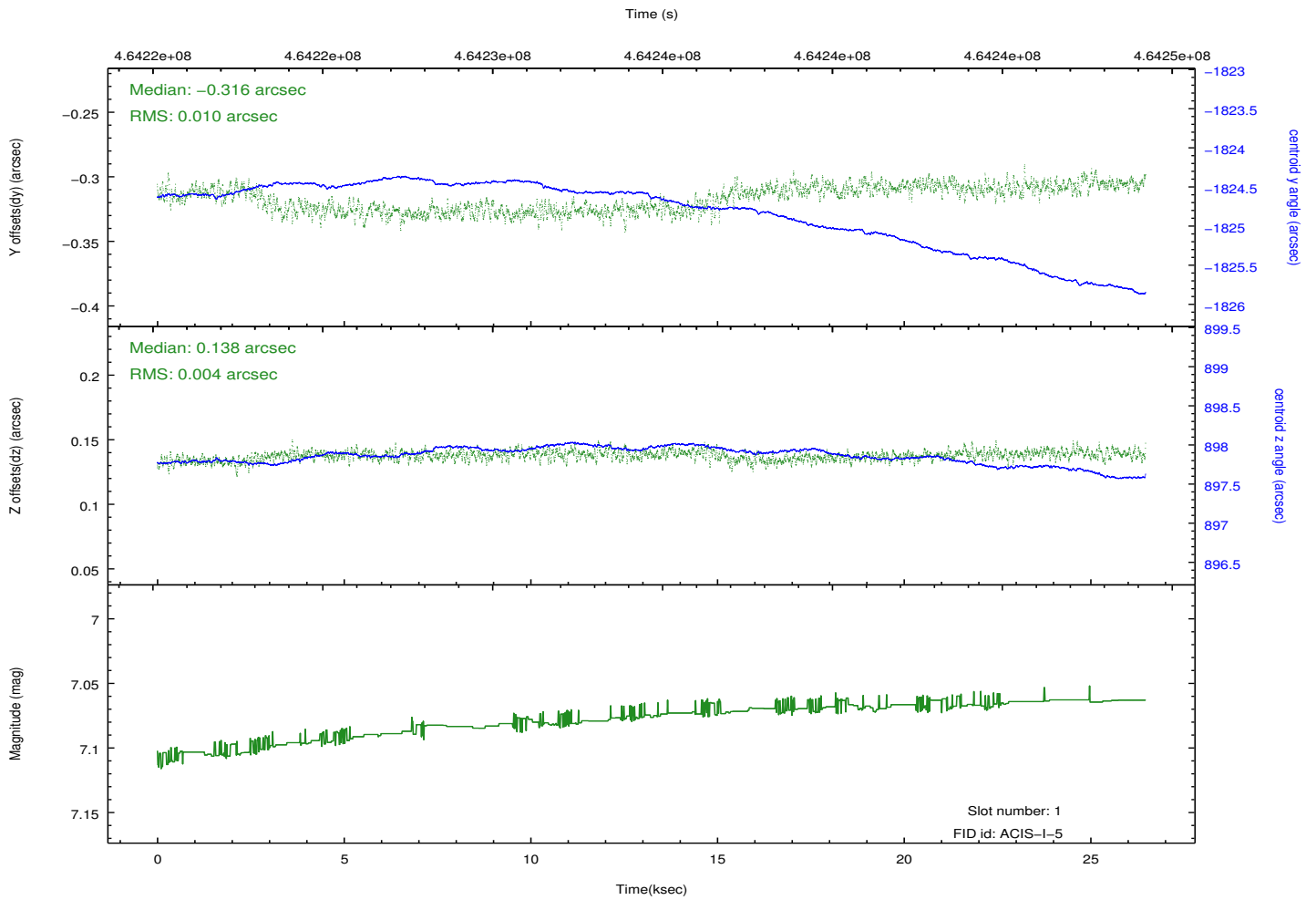
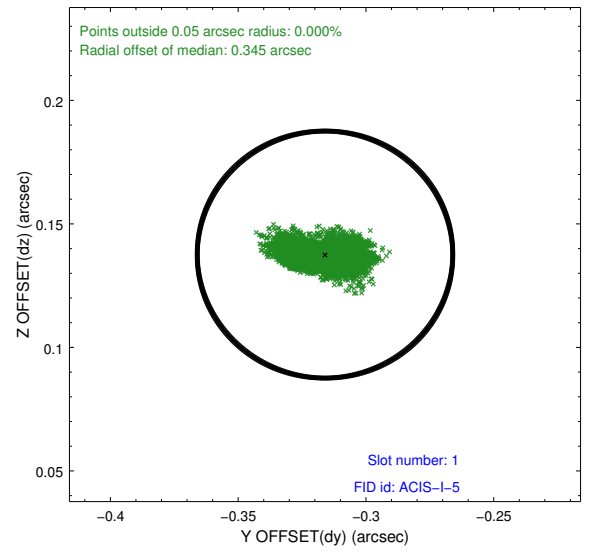
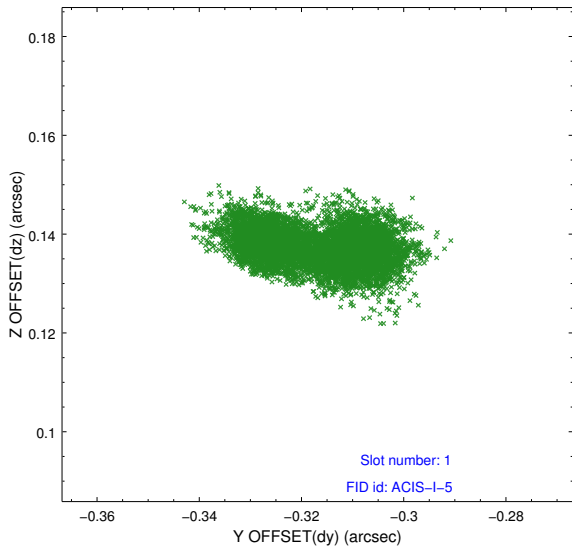


2.5 FID Slots

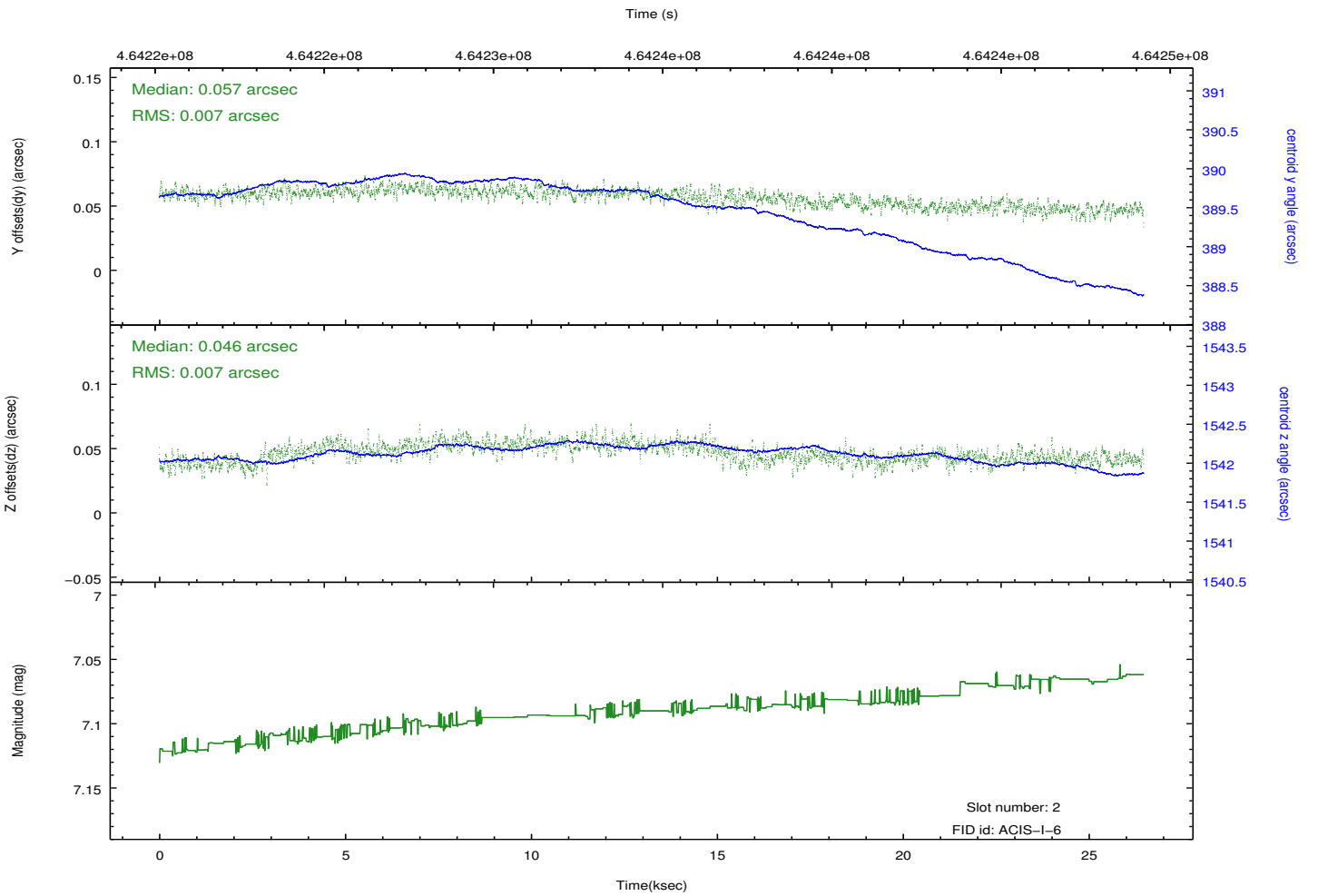
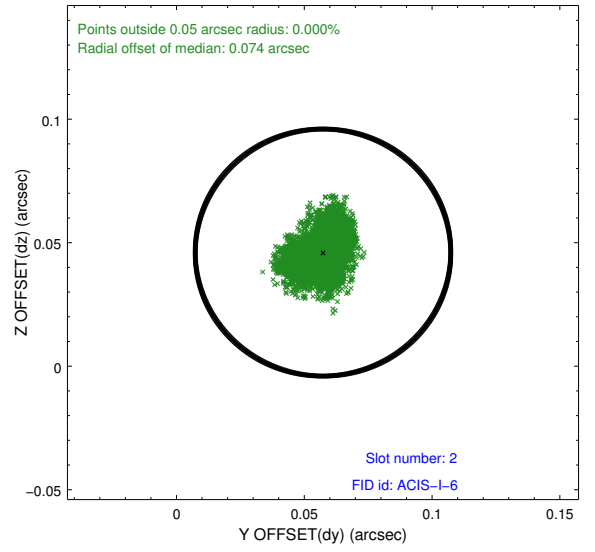
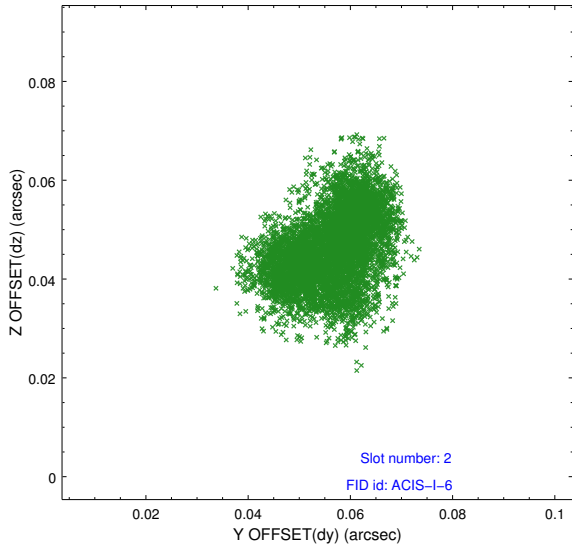
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	26.278700202107

A.2 Comments

Joint proposal with HST.

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.