

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15492 - L2 Version 2
Chandra X-Ray Center

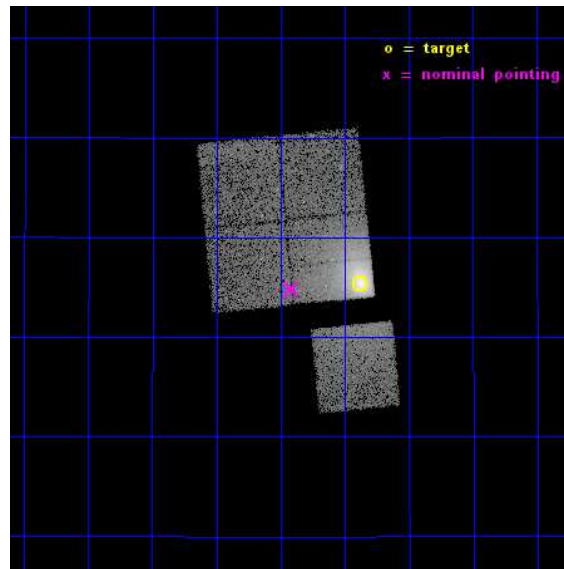
L2 Processing Date : Dec 2 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

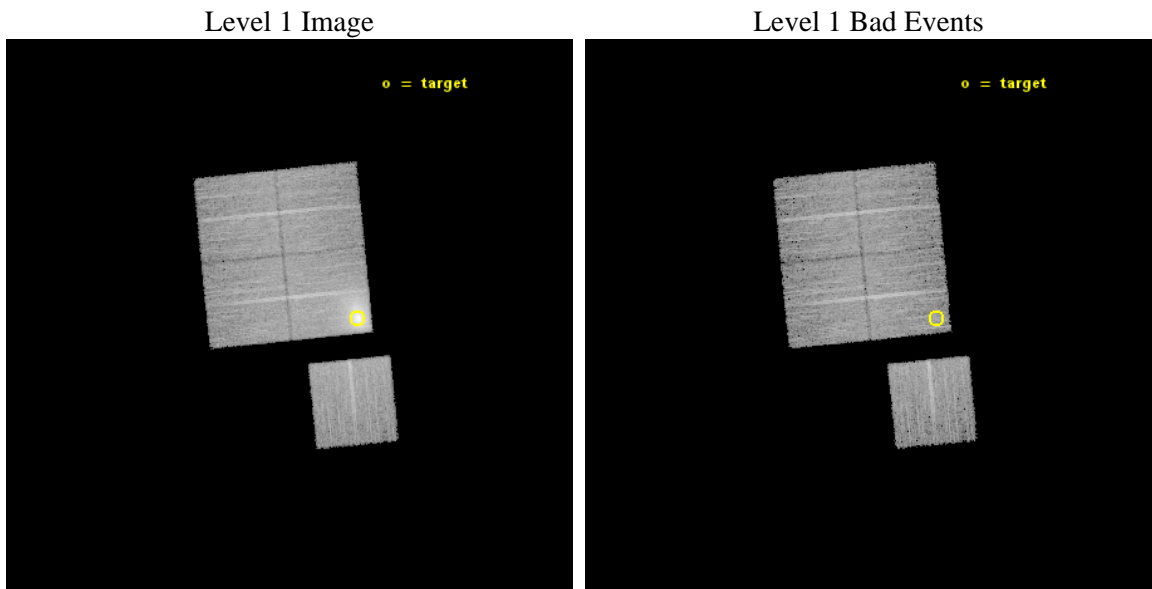
seq_num	890078	Sequence number
obs_id	15492	Observation id
title	AO-14 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.35397224683	Nominal RA [deg]
dec_nom	26.580076677549	Nominal Dec [deg]
roll_nom	174.25473729201	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14770.603889167	Sum of GTIs [s]
livetime	14577.615075395	Livetime [s]
ontime0	14773.662889659	Sum of GTIs [s]
ontime1	14776.844979942	Sum of GTIs [s]
ontime2	14770.603889167	Sum of GTIs [s]
ontime3	14776.927059948	Sum of GTIs [s]
ontime6	14776.762899935	Sum of GTIs [s]
l2events	103514	Number of level 2 events



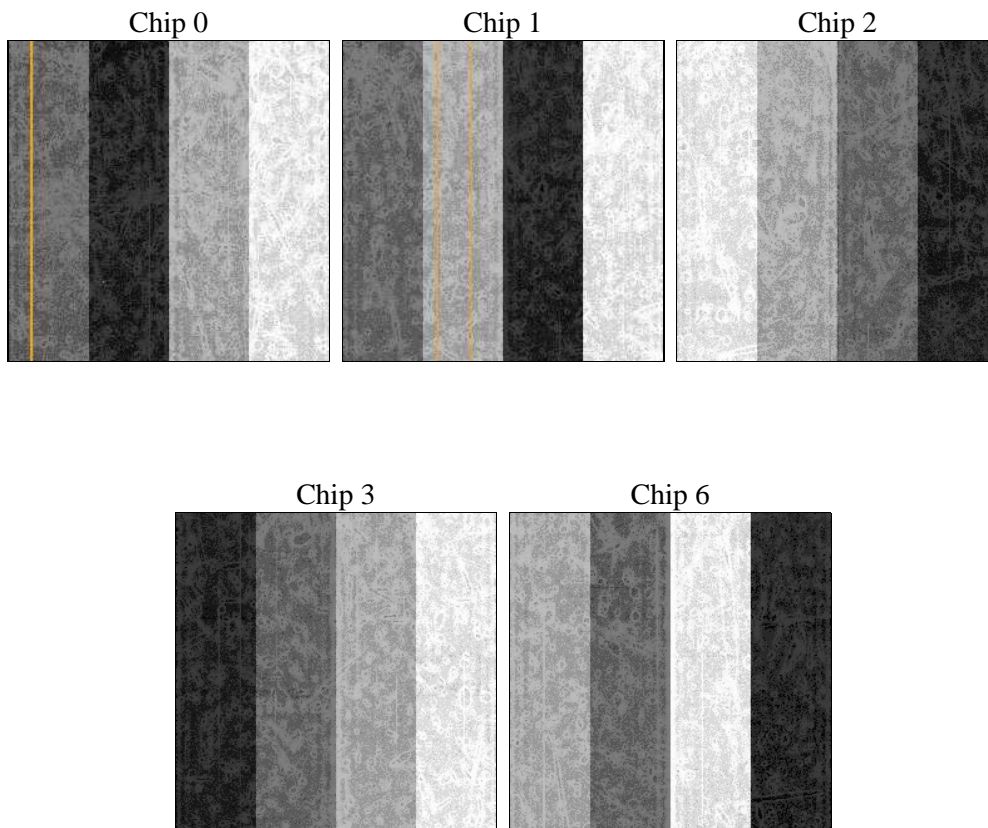
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	14770.603889167	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	14773.662889659	Sum of GTIs [s]
date	2014-12-02T18:37:54	Date and time of file creation	ontime1	14776.844979942	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	14770.603889167	Sum of GTIs [s]
			ontime3	14776.927059948	Sum of GTIs [s]
			ontime6	14776.762899935	Sum of GTIs [s]
			l1events	432180	Number of level 1 events

2.1.4 Events

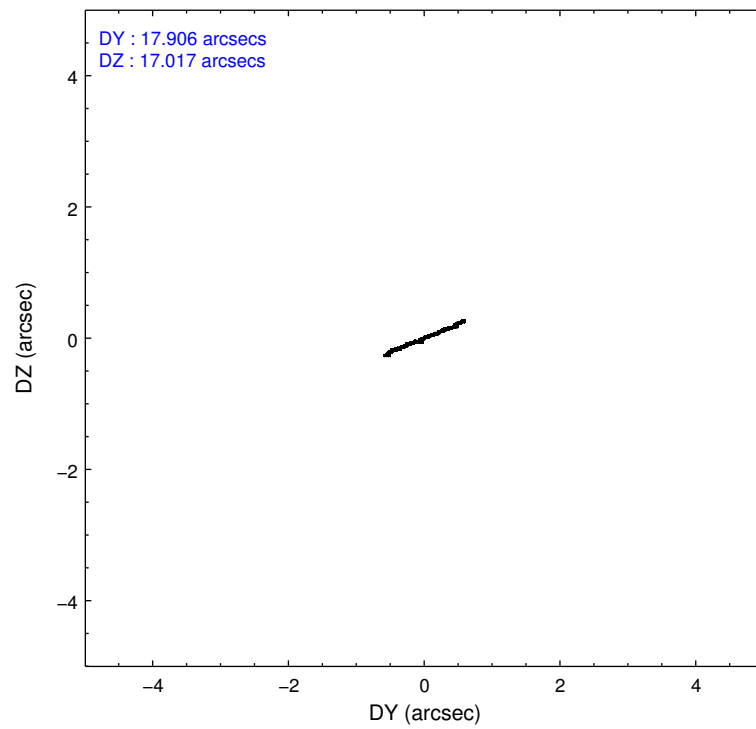
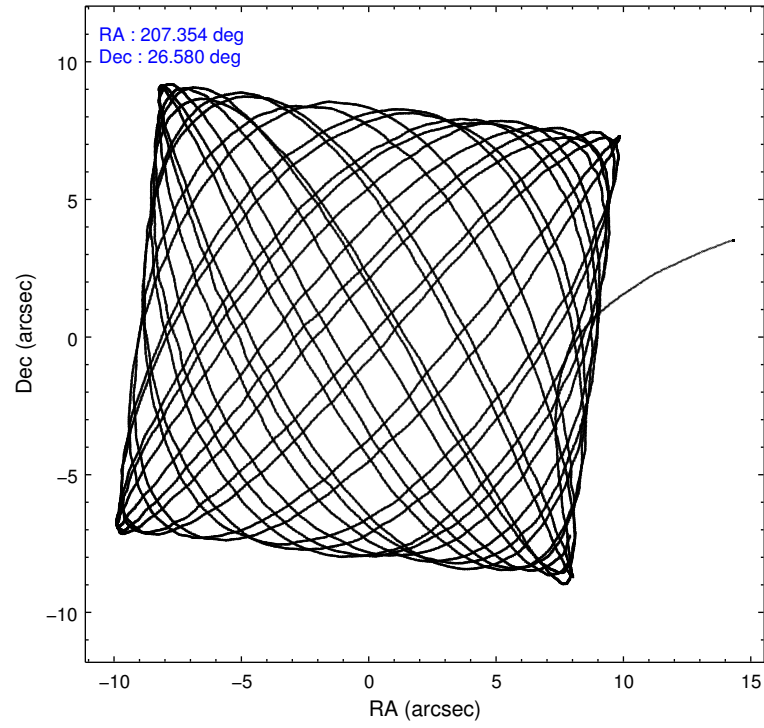
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	70720	71144	139466	73830	77020
rejected events	60513	61107	67616	64091	63766
rejected %	85%	85%	48%	86%	82%

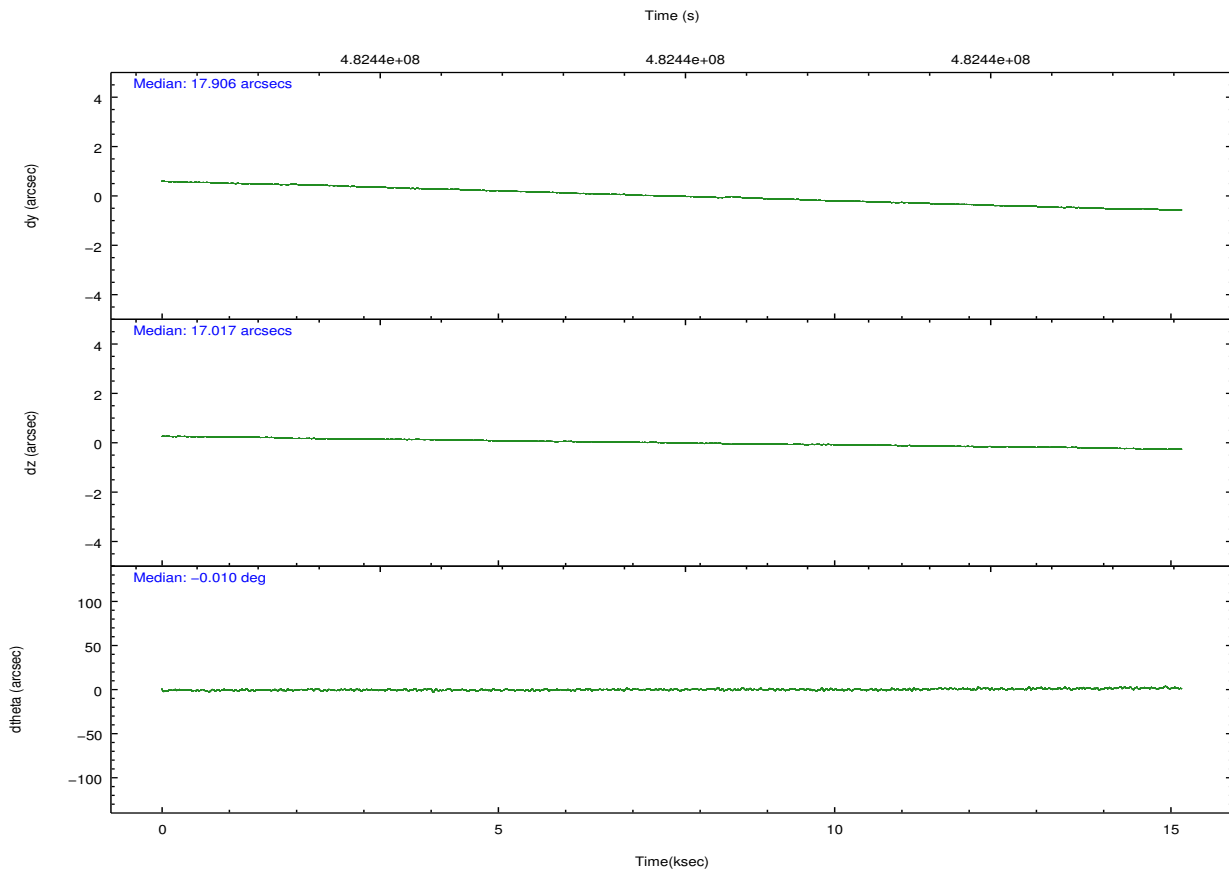
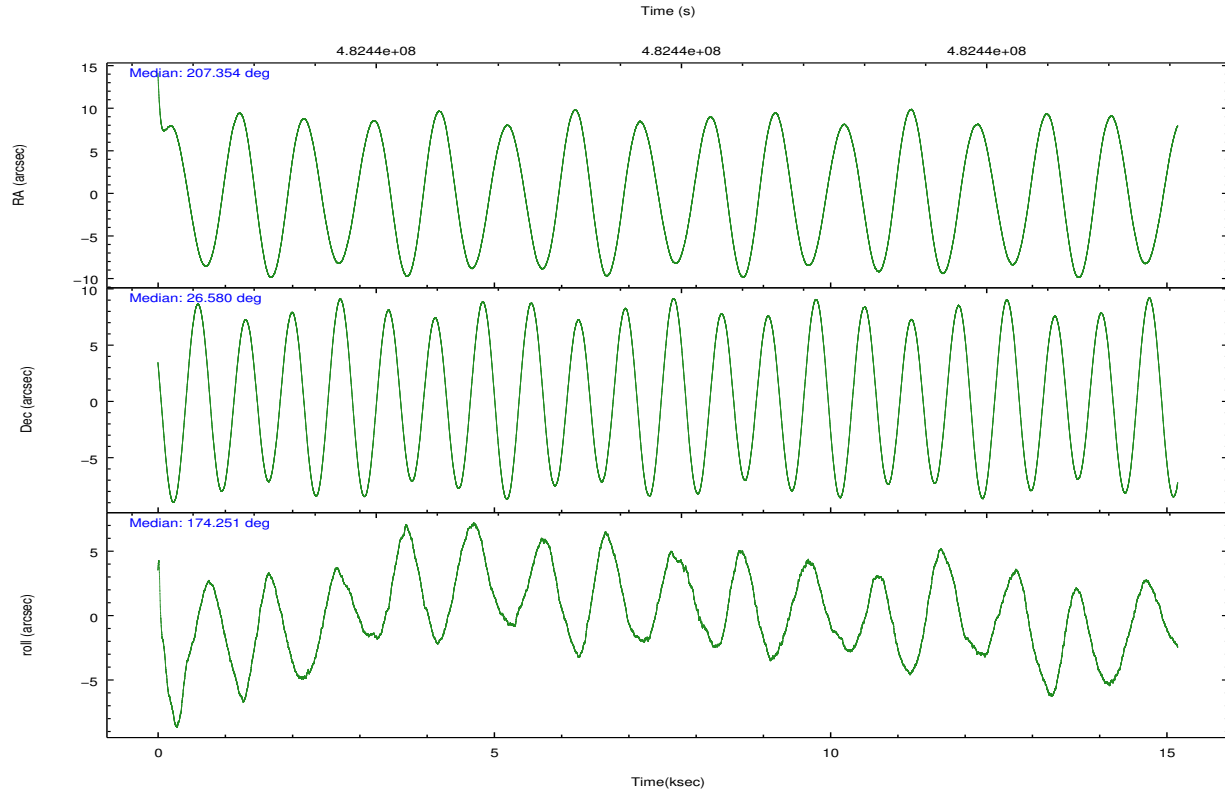
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4231	3701	53612	4045	6582
	5%	5%	38%	5%	8%
grade 1 events	44	48	215	38	47
	0%	0%	0%	0%	0%
grade 2 events	2251	2266	8701	1942	2381
	3%	3%	6%	2%	3%
grade 3 events	1018	975	3002	962	1042
	1%	1%	2%	1%	1%
grade 4 events	869	920	3033	949	1025
	1%	1%	2%	1%	1%
grade 5 events	3526	3697	3308	3906	3737
	4%	5%	2%	5%	4%
grade 6 events	1844	2178	3525	1846	2228
	2%	3%	2%	2%	2%
grade 7 events	56937	57359	64070	60142	59978
	80%	80%	45%	81%	77%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.381938	207.3539722468277	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.591503	26.58007667754897	Alternating exposures requested	N	N
[deg] Pointing Roll	174.033527	174.254737292008	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-215.164963	-215.1650462462986			
[mm] SIM translation stage offset	-18.4275	-18.42740675663111			
[s] Observation start time (MET)	482432351.184000	482430604.83001			
Observation start date	2013-04-15T16:58:04	2013-04-15T16:30:04			
[s] Observation end time (MET)	482447351.184000	482448105.16846			
Observation end date	2013-04-15T21:08:04	2013-04-15T21:21:45			
Read mode	TIMED	TIMED			

2.3 Aspect





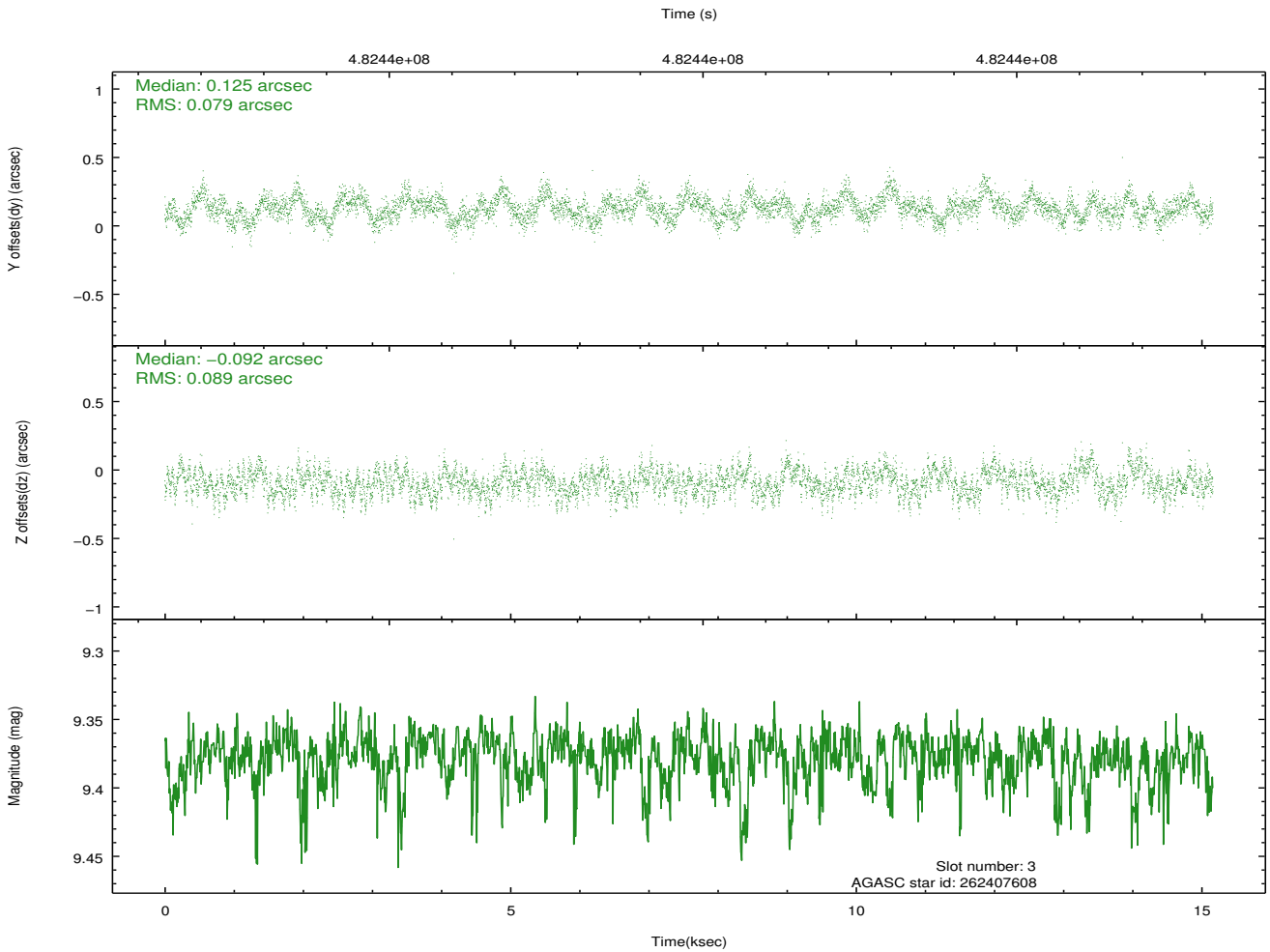
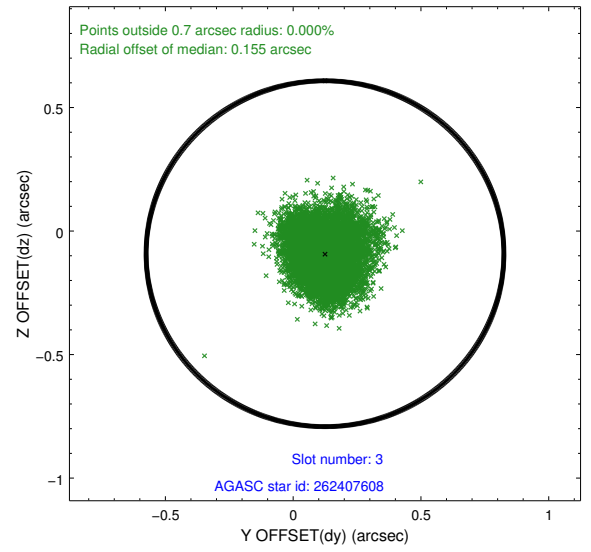
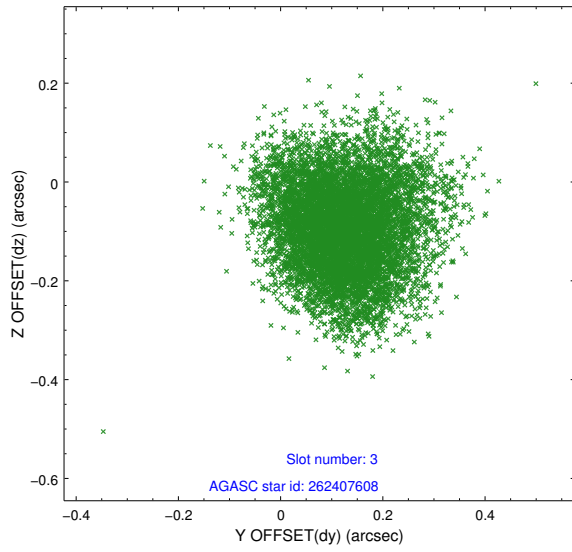
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	3699	0.201	-0.372	0.025	0.034	0.000000	0.000000	921.51	-1219.34
1	FID		ACIS-I-2	7.12	3699	-0.355	0.124	0.019	0.026	0.000000	0.000000	-773.95	-1223.71
2	FID		ACIS-I-4	7.10	3699	0.059	0.315	0.009	0.014	0.000000	0.000000	2139.82	683.13
3	GUIDE	used	262407608	9.38	7396	0.125	-0.092	0.127	0.205	207.378401	26.435507	-46.74	559.85
4	GUIDE	used	262408096	9.37	7304	-0.085	-0.156	0.180	0.294	207.011678	26.515421	1158.77	394.69
5	GUIDE	used	262408512	8.00	7398	0.095	0.151	0.070	0.113	207.800210	27.128796	-1130.86	-2065.01
6	GUIDE	used	262408936	9.70	7380	-0.103	0.121	0.172	0.270	207.154731	26.726554	777.11	-408.06
7	GUIDE	used	262414456	9.26	7344	-0.077	-0.023	0.126	0.198	208.043290	26.129682	-2298.07	1426.13

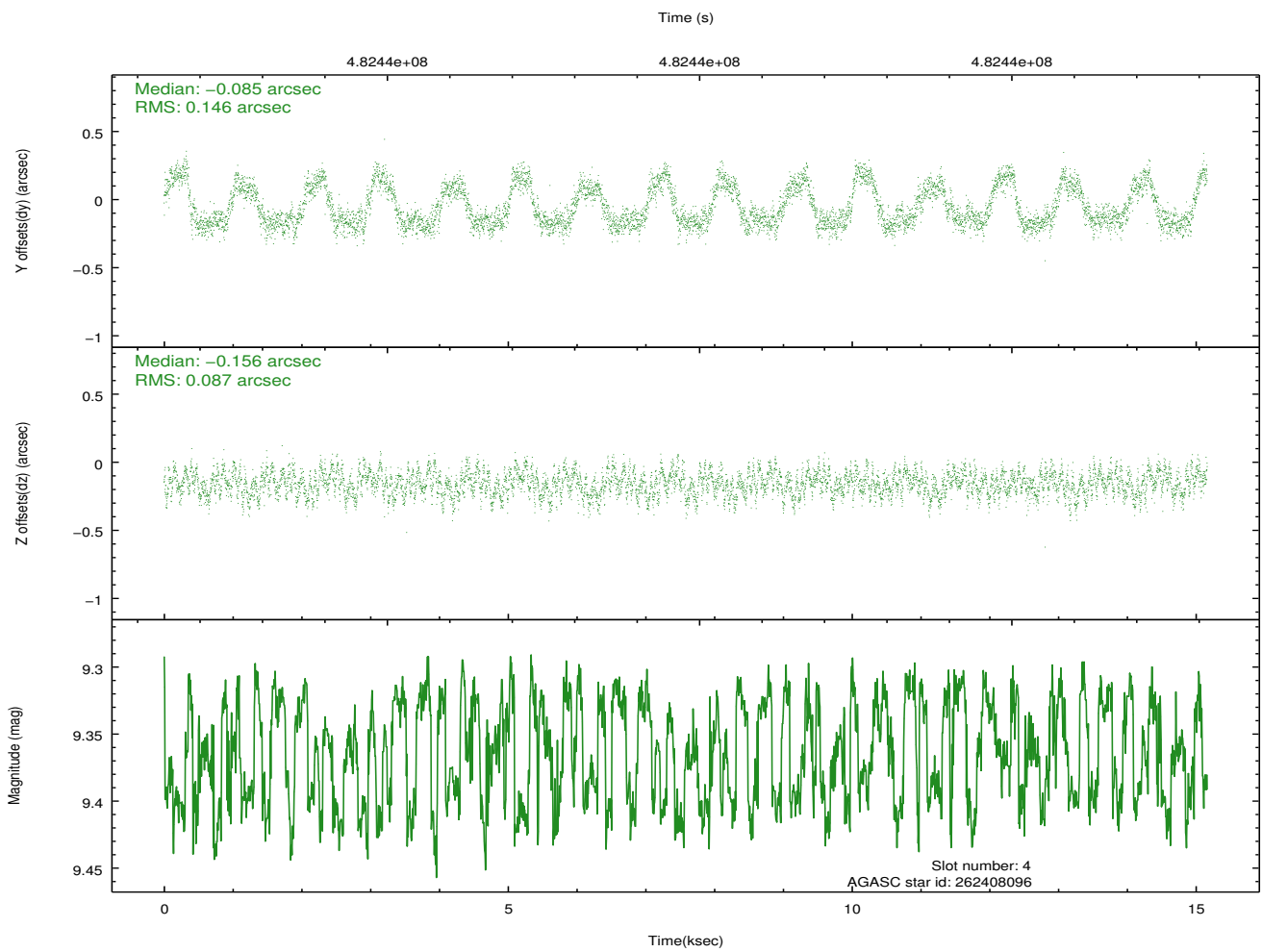
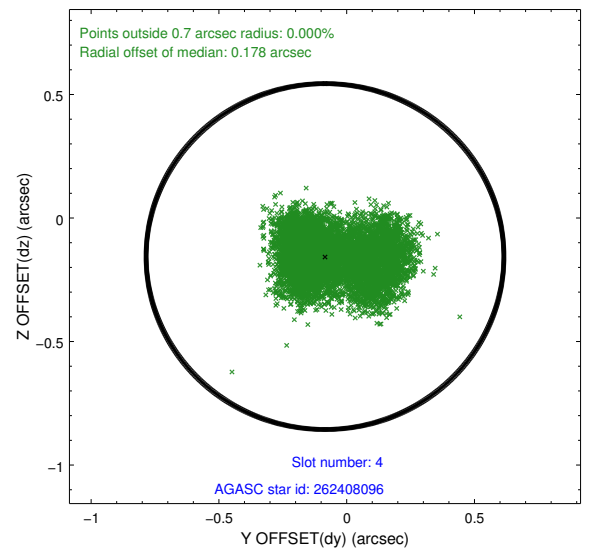
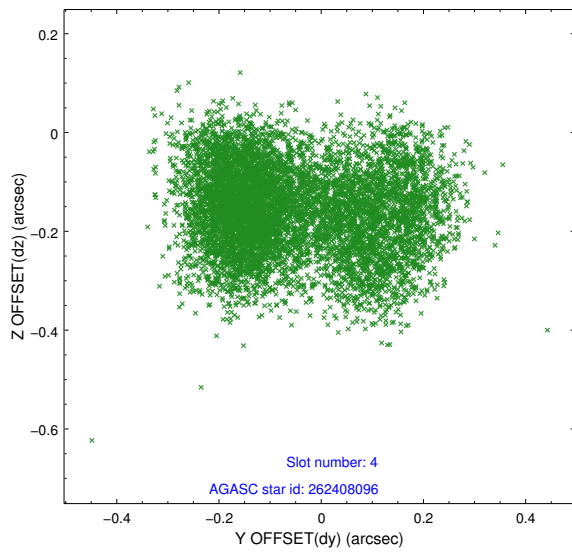
∞

2.4 Star Slots

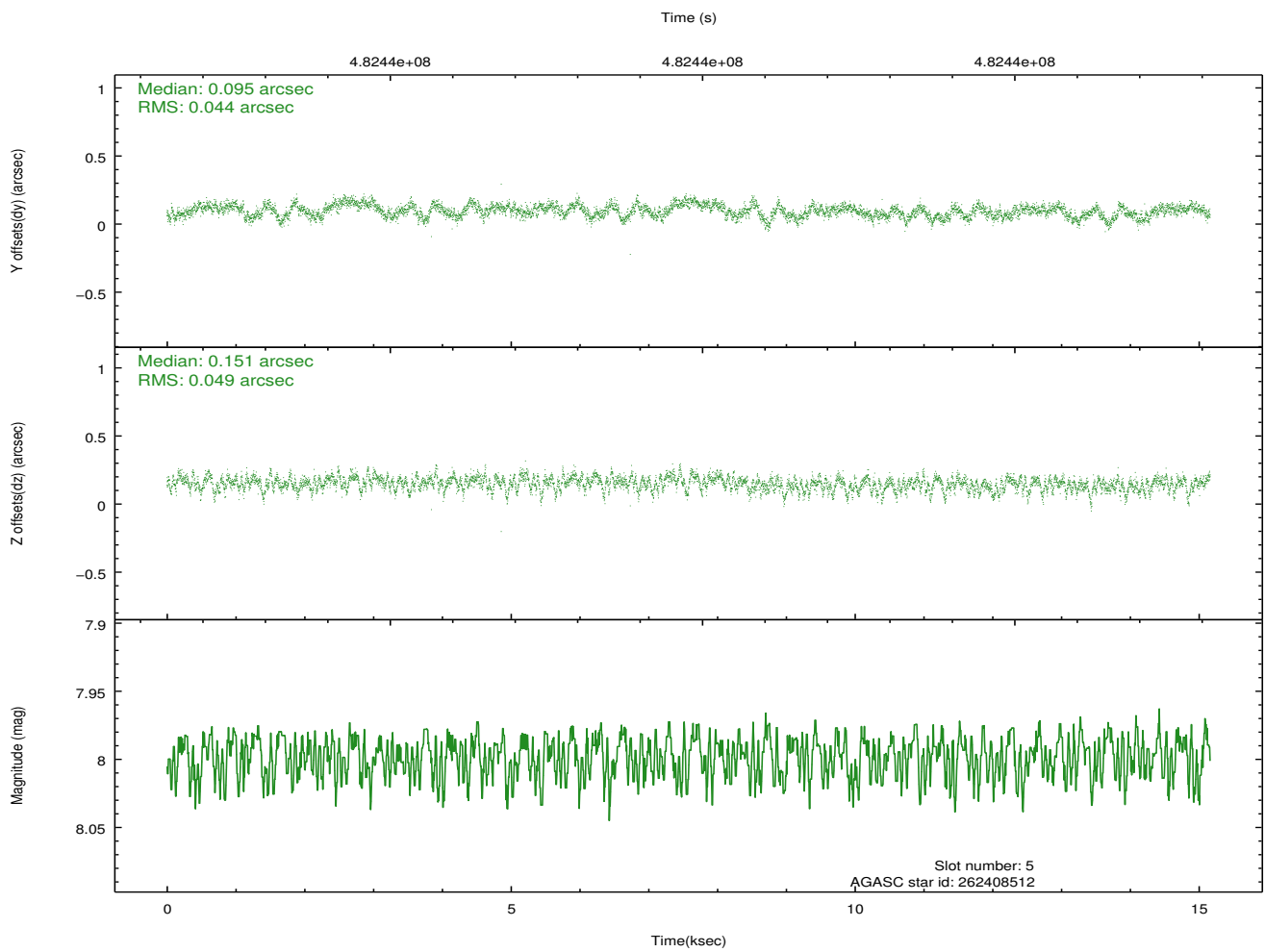
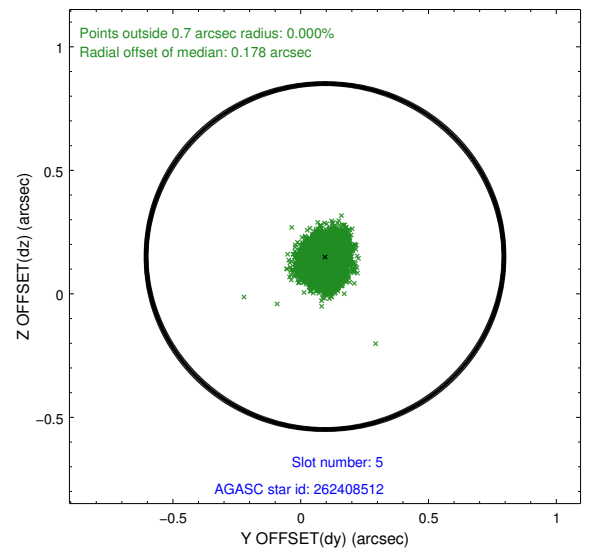
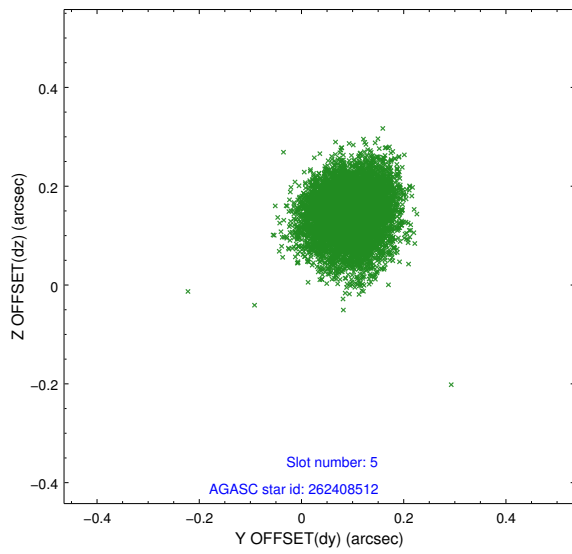
2.4.1 Slot 3



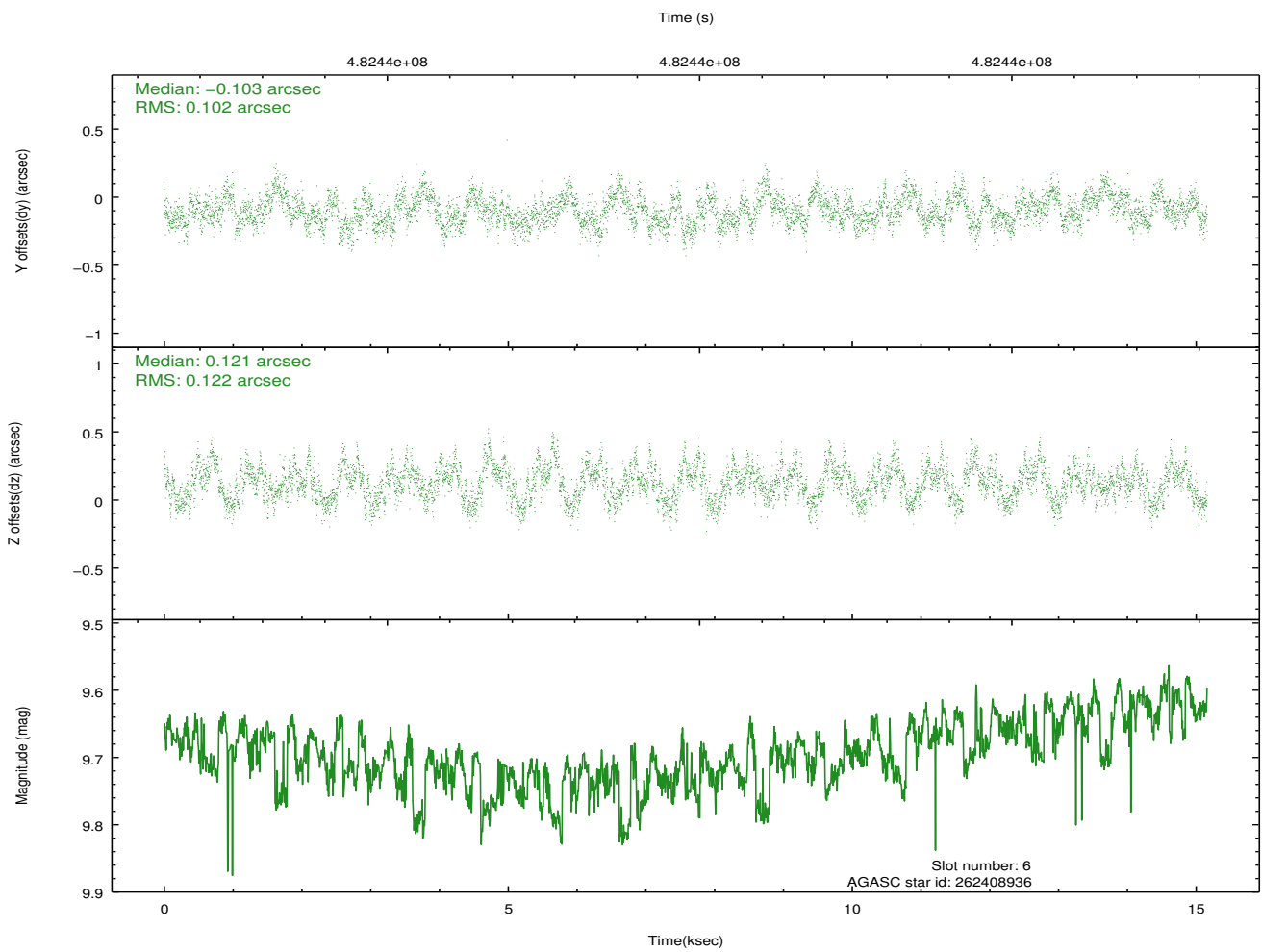
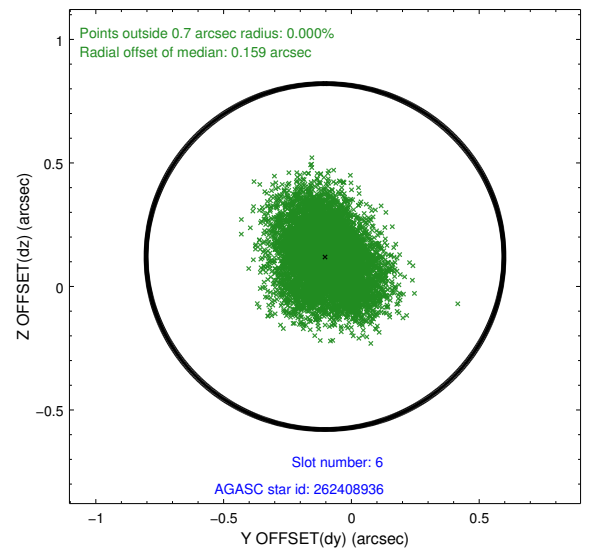
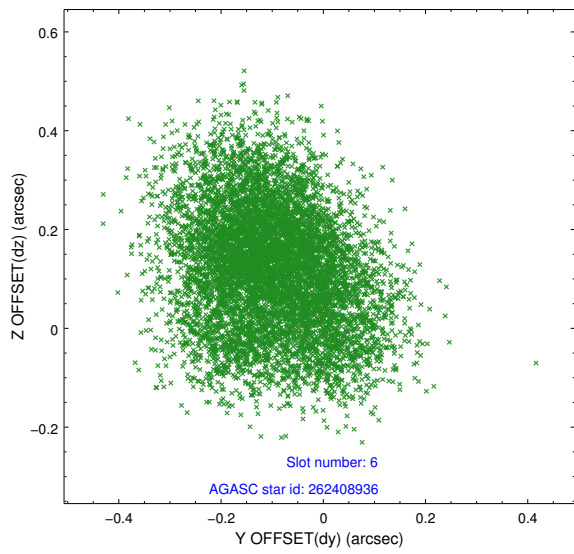
2.4.2 Slot 4



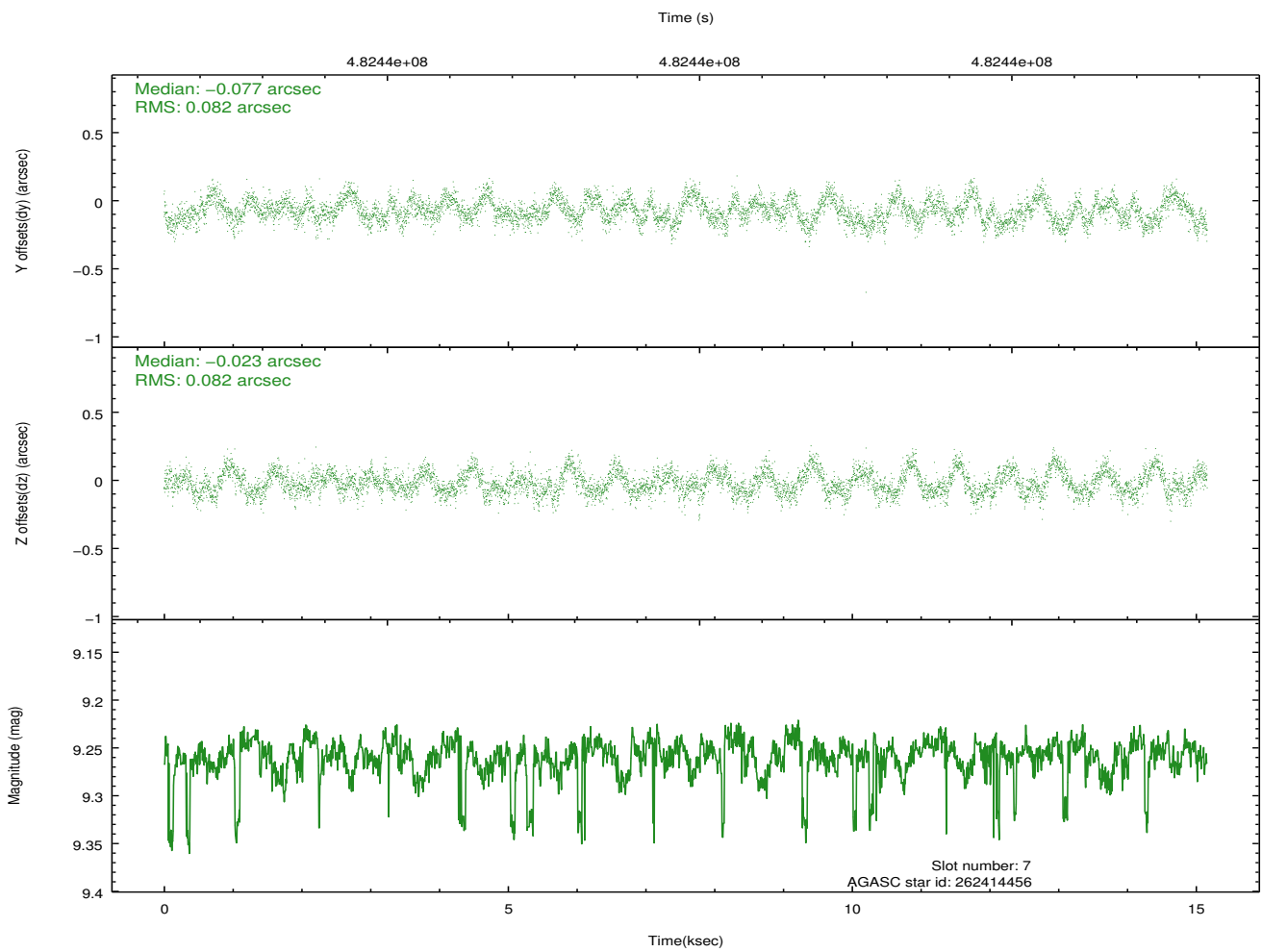
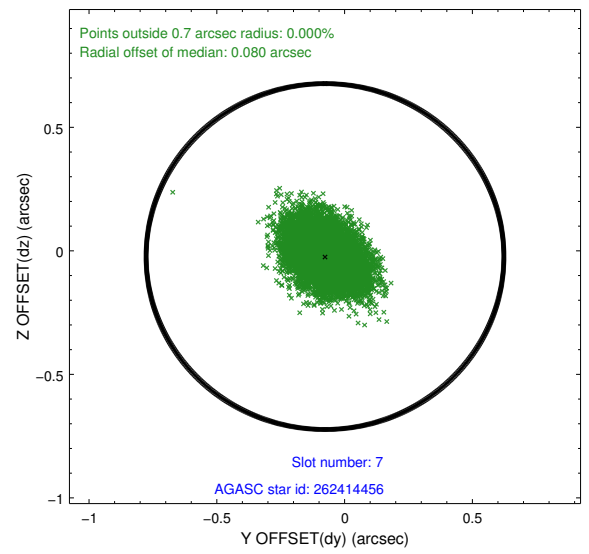
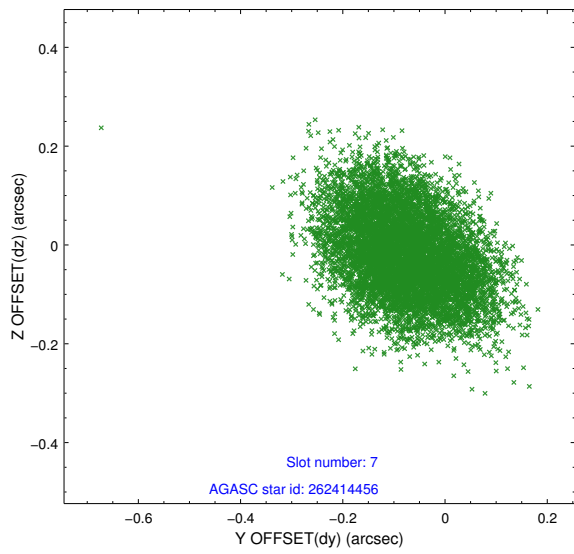
2.4.3 Slot 5



2.4.4 Slot 6

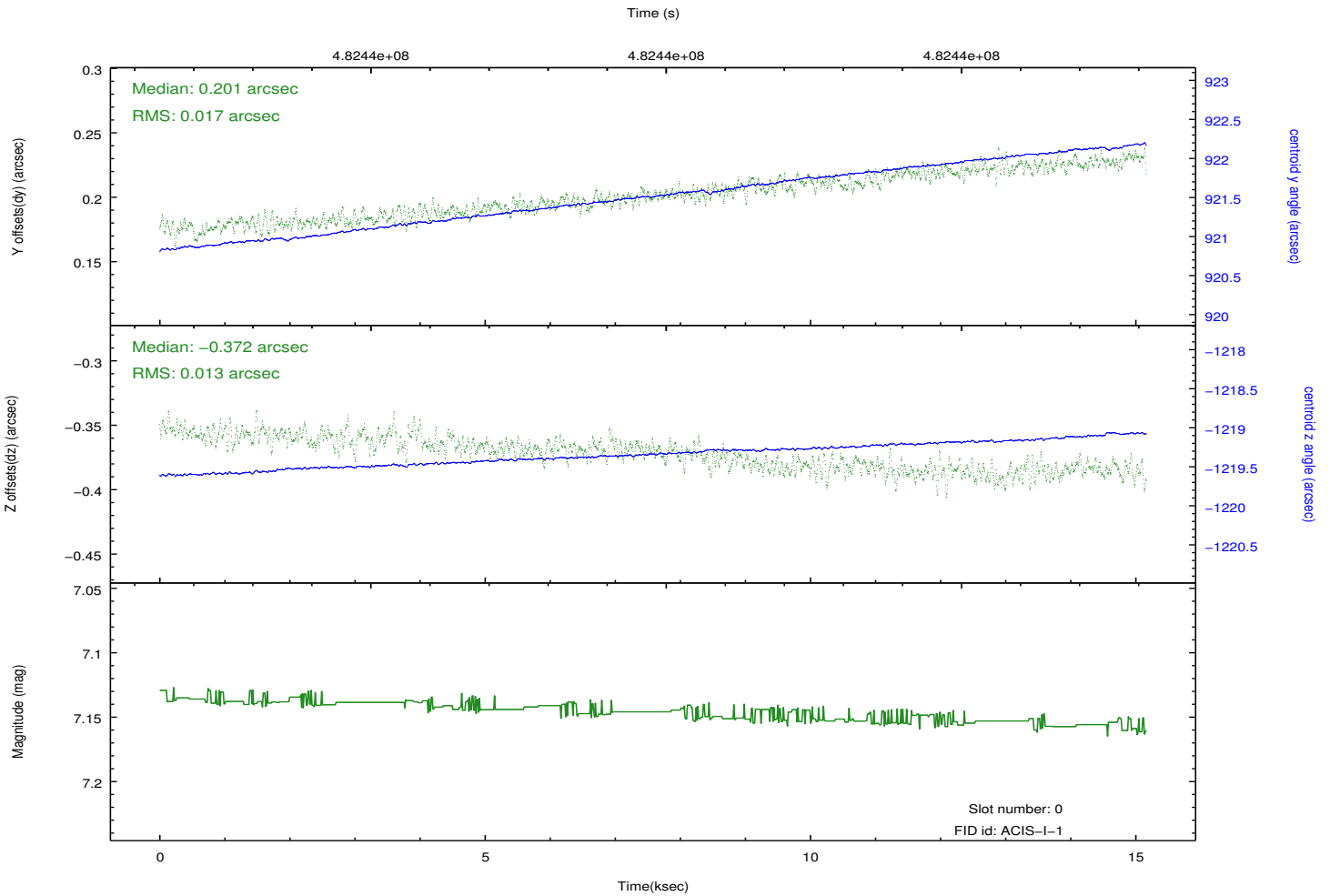
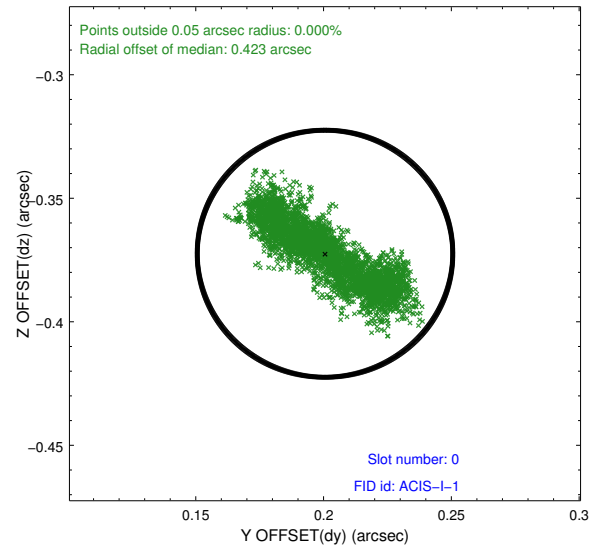
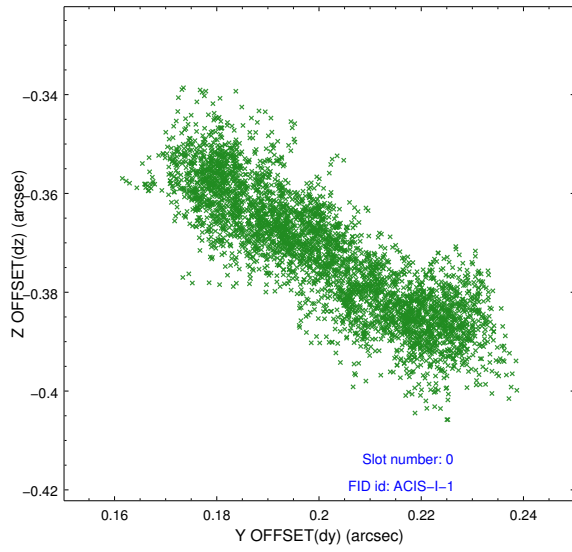


2.4.5 Slot 7

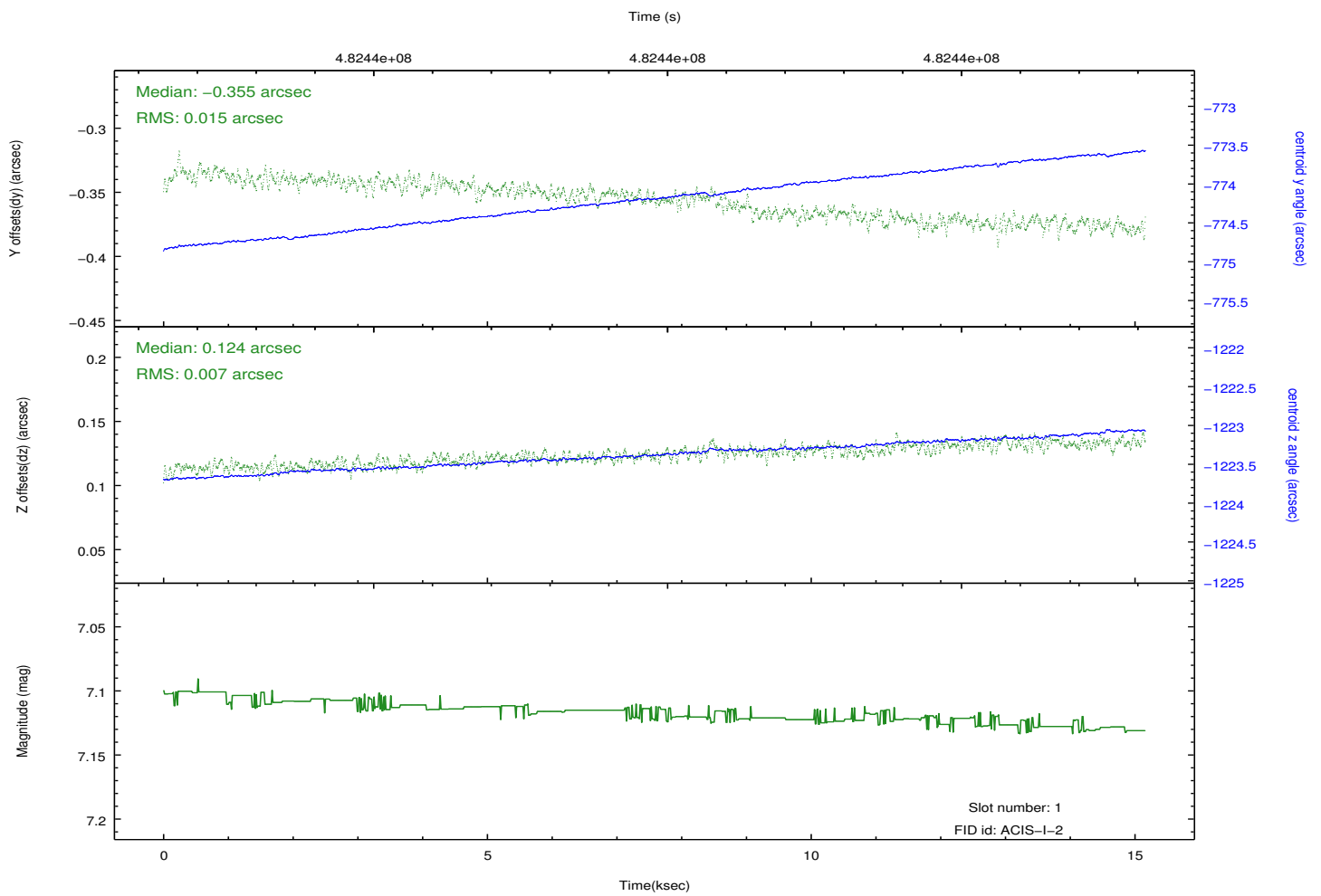
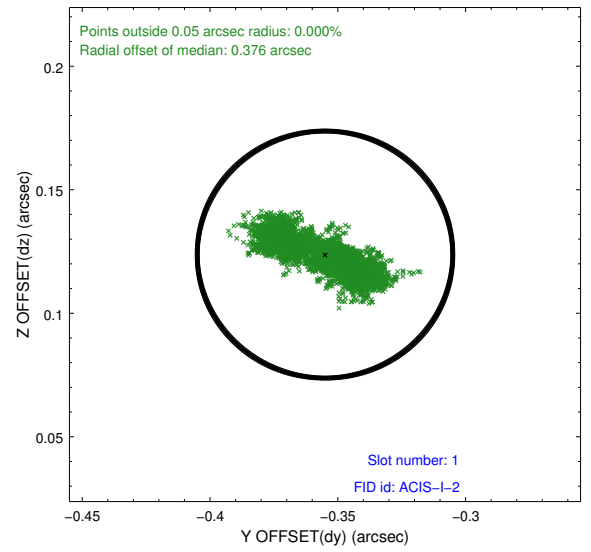
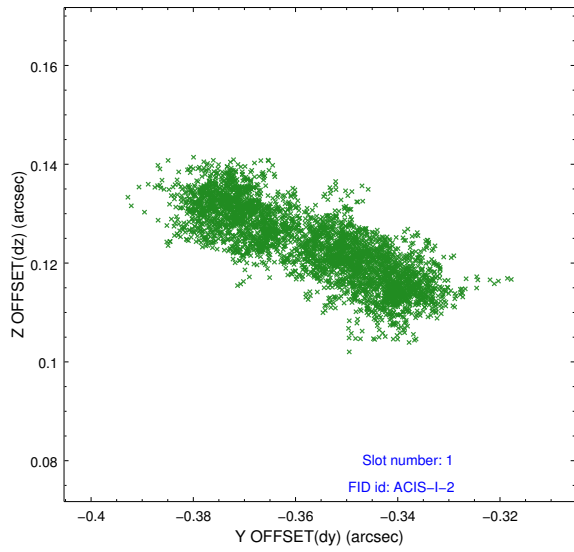


2.5 FID Slots

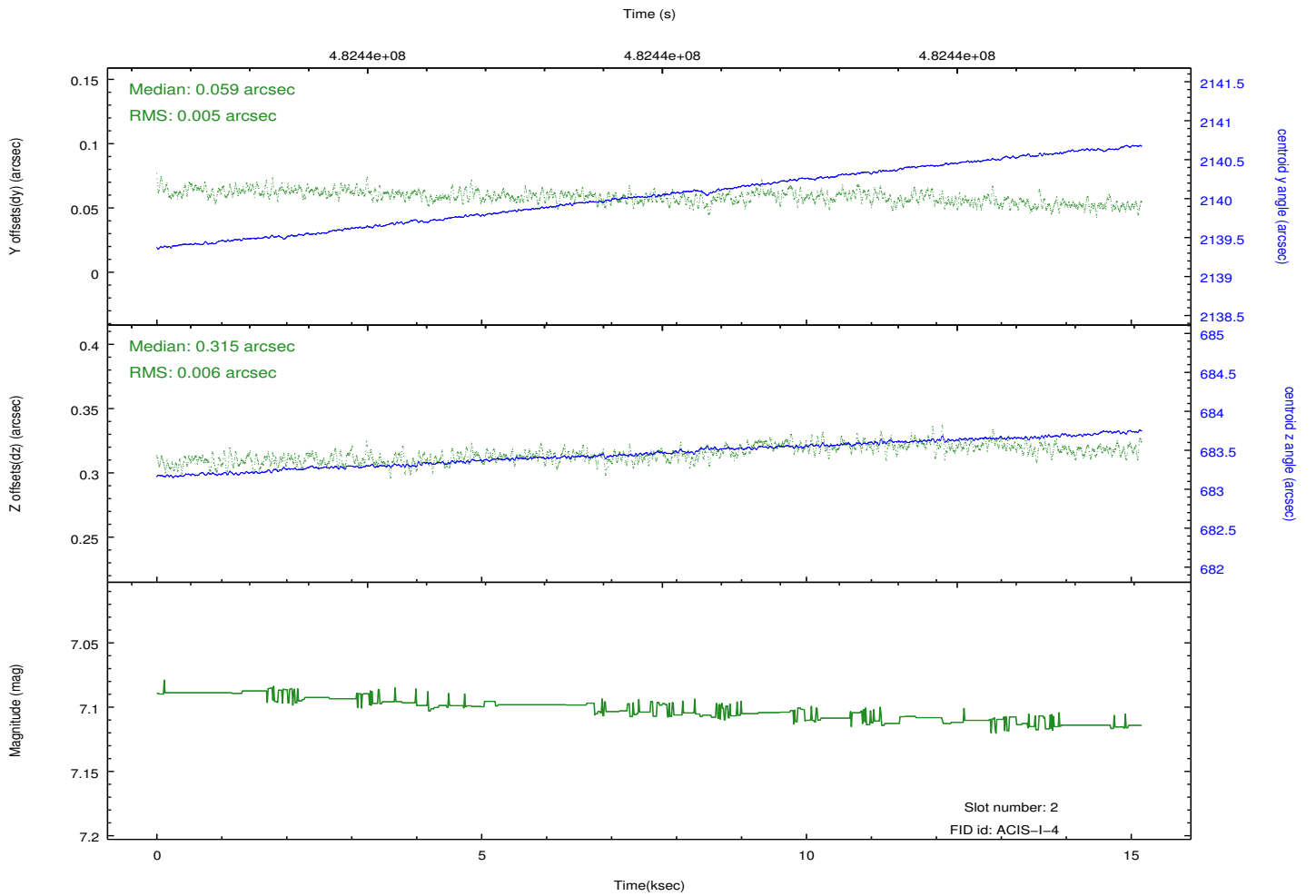
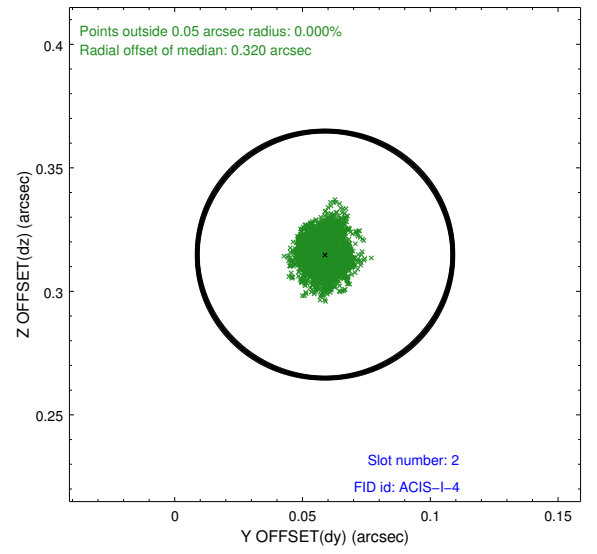
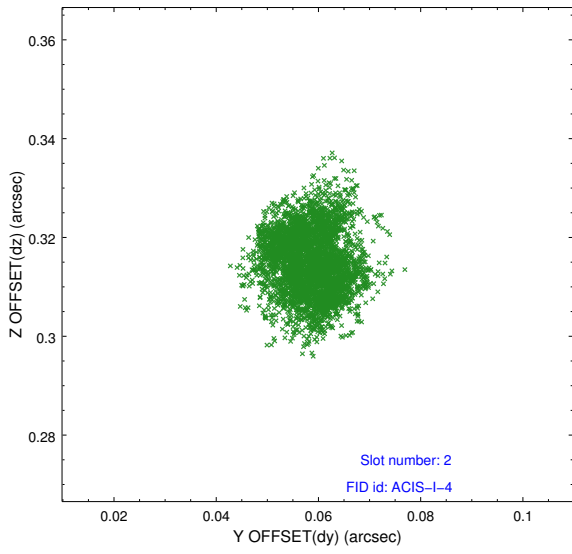
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.770603889167

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.