

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15381 - L2 Version 2
Chandra X-Ray Center

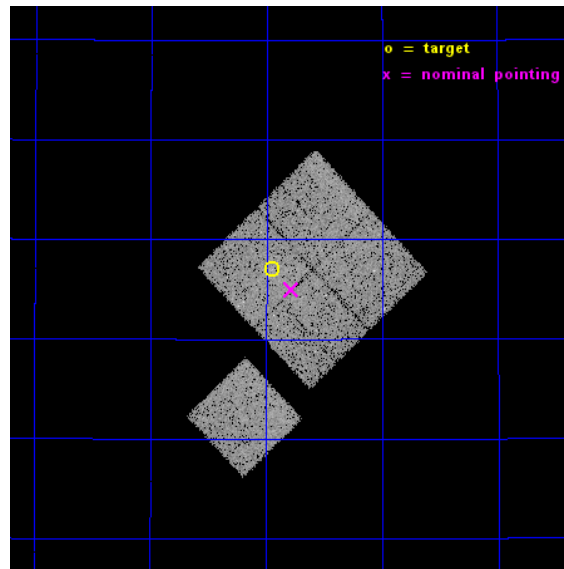
L2 Processing Date : Dec 1 2014

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

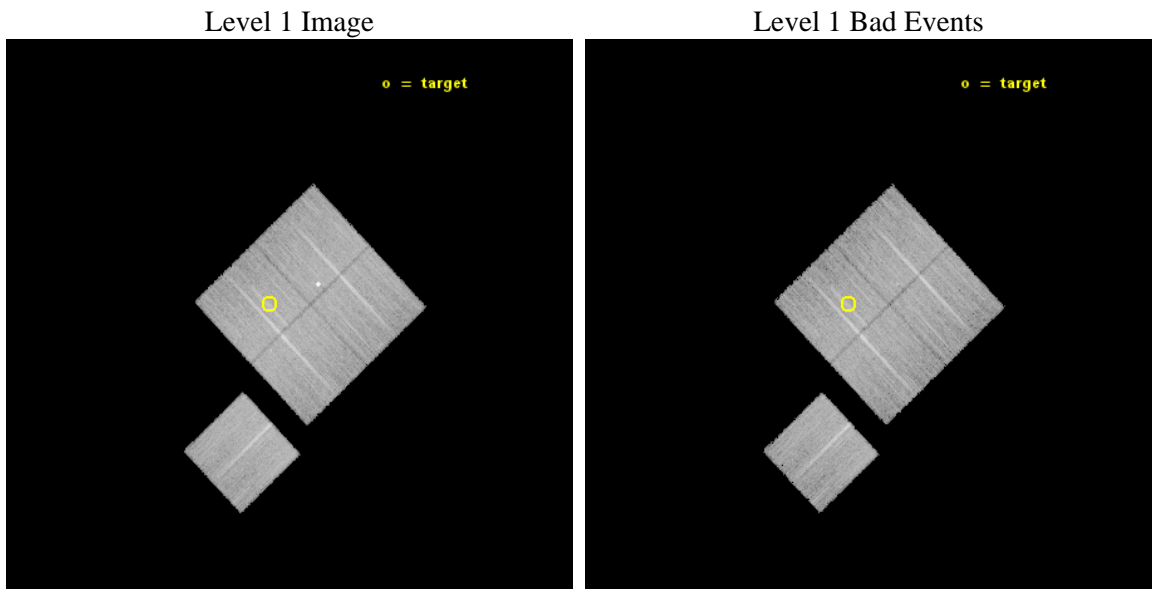
seq_num	801371	Sequence number
obs_id	15381	Observation id
title	Extending a Large Sample of Fossil Groups with Chandra(2)	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J082657.15+360659.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.738333	Observer's specified target RA [deg]
dec_targ	36.116444	Observer's specified target Dec [deg]
ra_nom	126.69589359382	Nominal RA [deg]
dec_nom	36.08324938531	Nominal Dec [deg]
roll_nom	226.34899777551	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20081.800154448	Sum of GTIs [s]
livetime	19819.416651424	Livetime [s]
ontime0	20081.800154448	Sum of GTIs [s]
ontime1	20081.800154448	Sum of GTIs [s]
ontime2	20078.659094095	Sum of GTIs [s]
ontime3	20081.800154448	Sum of GTIs [s]
ontime6	20069.235933185	Sum of GTIs [s]
l2events	55760	Number of level 2 events



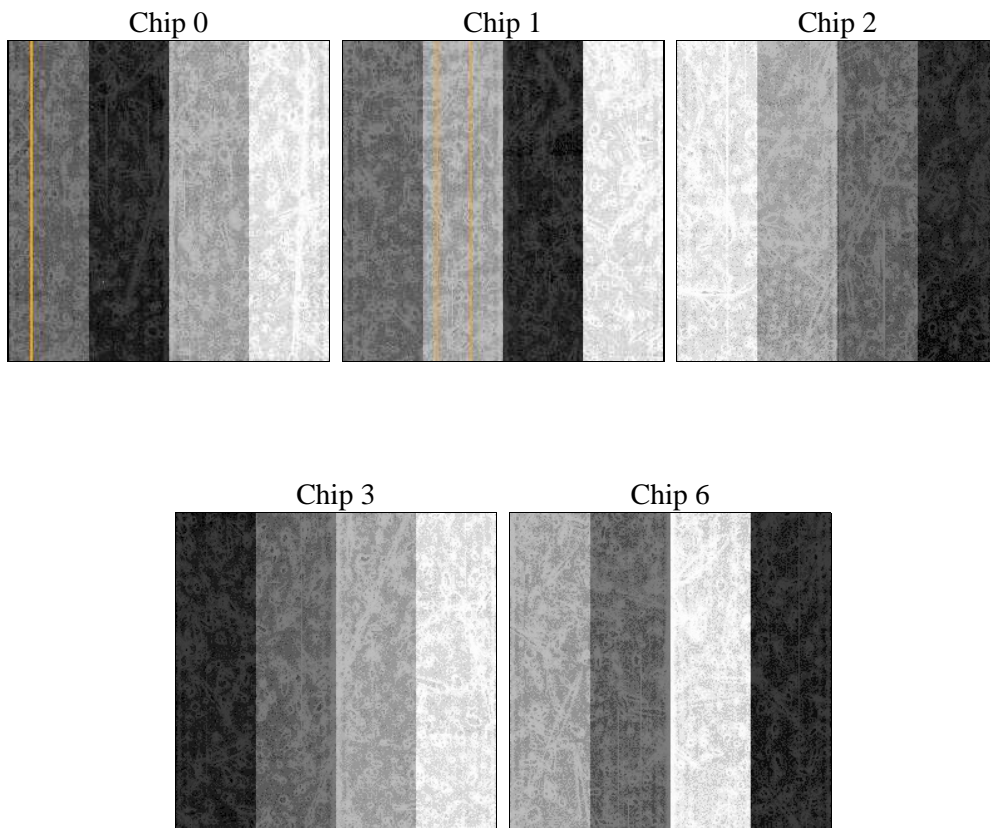
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20081.800154448	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	20081.800154448	Sum of GTIs [s]
date	2014-12-01T16:27:03	Date and time of file creation	ontime1	20081.800154448	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20078.659094095	Sum of GTIs [s]
			ontime3	20081.800154448	Sum of GTIs [s]
			ontime6	20069.235933185	Sum of GTIs [s]
			l1events	555099	Number of level 1 events

2.1.4 Events

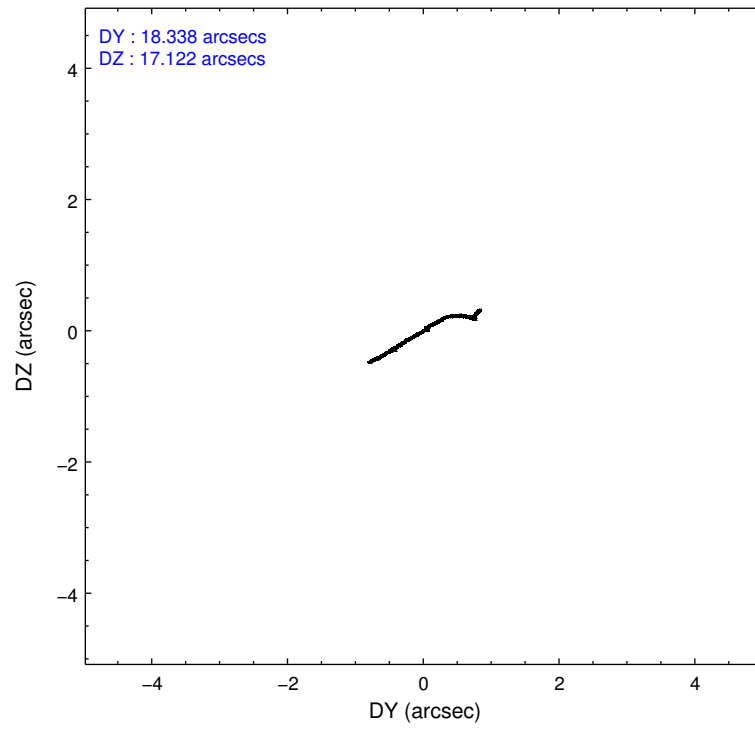
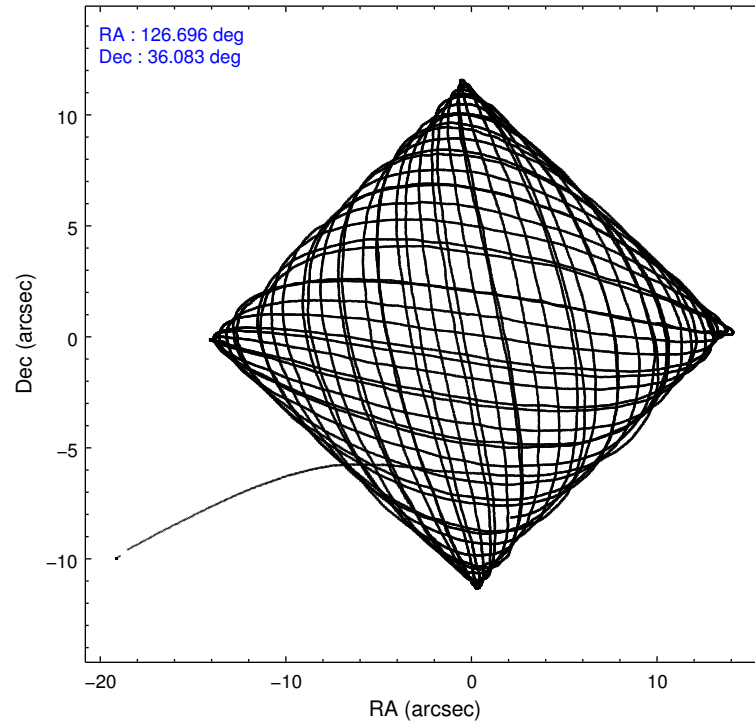
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	107250	111350	110863	111088	114548
rejected events	93995	95053	98170	98550	101117
rejected %	87%	85%	88%	88%	88%

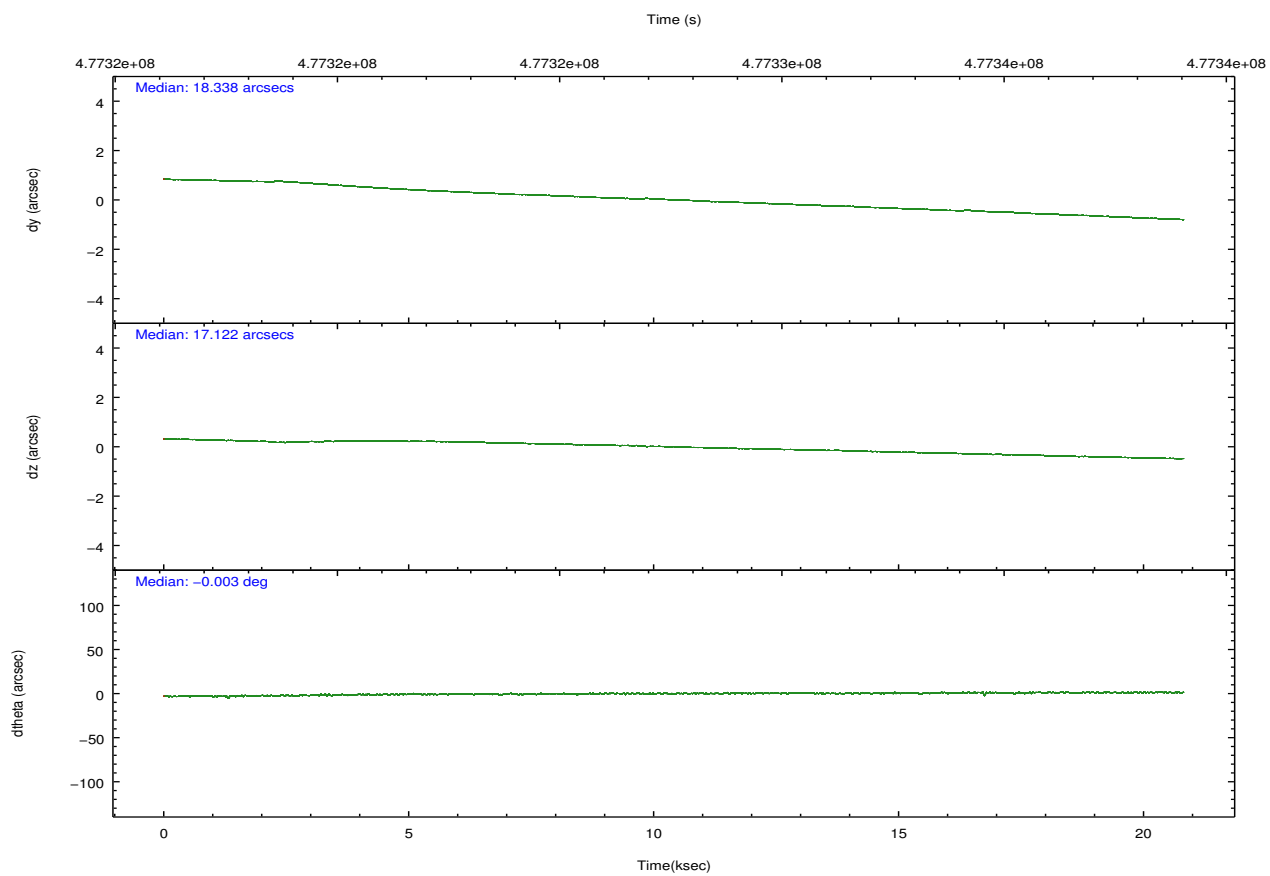
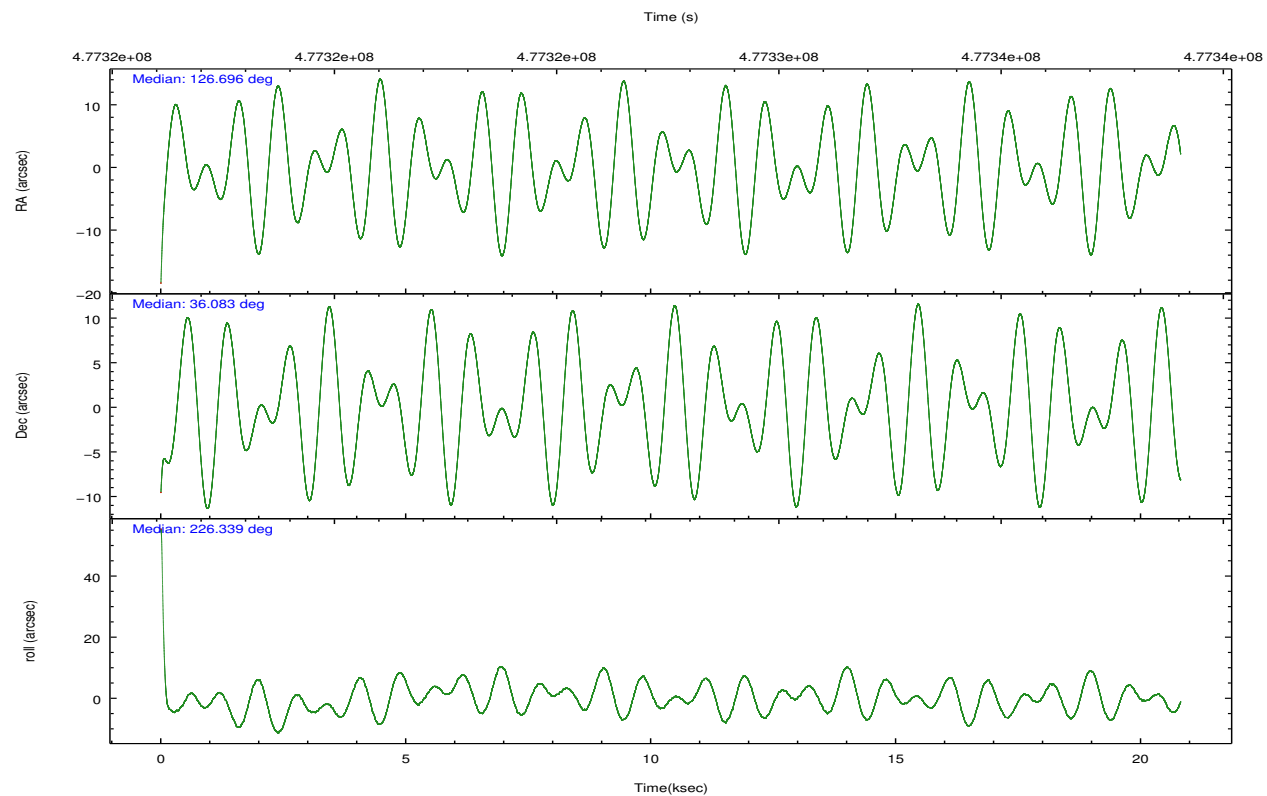
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4606	4616	4452	4486	4548
	4%	4%	4%	4%	3%
grade 1 events	44	61	53	71	58
	0%	0%	0%	0%	0%
grade 2 events	3260	5782	3020	2750	3015
	3%	5%	2%	2%	2%
grade 3 events	1380	1426	1382	1311	1392
	1%	1%	1%	1%	1%
grade 4 events	1275	1338	1304	1306	1359
	1%	1%	1%	1%	1%
grade 5 events	5114	5561	4890	5742	5750
	4%	4%	4%	5%	5%
grade 6 events	2737	3137	2537	2688	3117
	2%	2%	2%	2%	2%
grade 7 events	88834	89429	93225	92734	95309
	82%	80%	84%	83%	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	126.703765	126.6958935938178	CCD I2 on	Y	Y
[deg] Pointing Dec	36.109997	36.08324938531047	CCD I3 on	Y	Y
[deg] Pointing Roll	226.135646	226.348997775508	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	-226.992463	-226.9898711095352	CCD S3 on	N	N
[mm] SIM translation stage offset	-6.6	-6.602581893394444	CCD S4 on	N	N
[s] Observation start time (MET)	477317972.184000	477315728.99084	CCD S5 on	N	N
Observation start date	2013-02-15T12:18:25	2013-02-15T11:42:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	477337972.184000	477339195.34211	On-chip summing requested	N	N
Observation end date	2013-02-15T17:51:45	2013-02-15T18:13:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



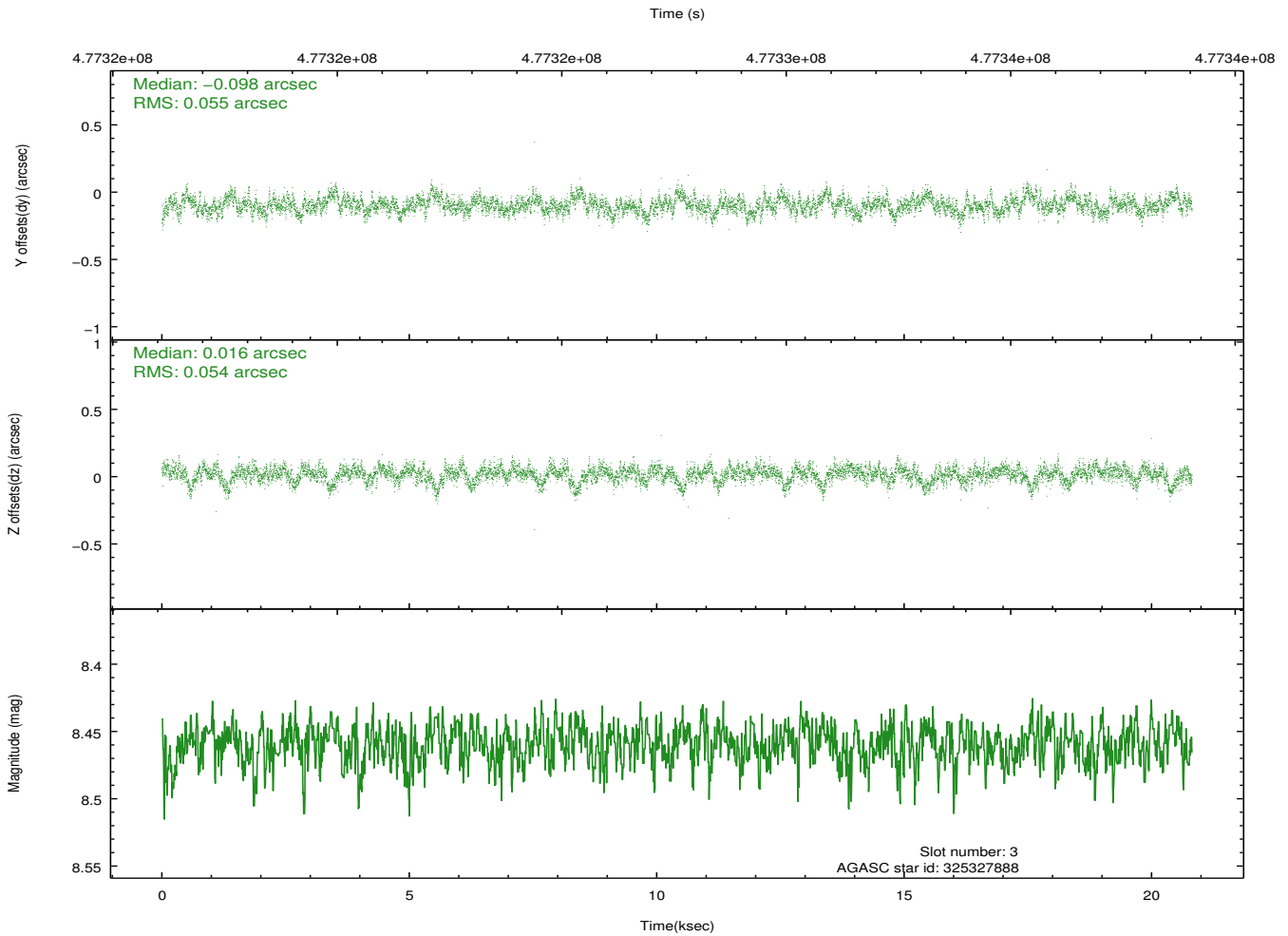
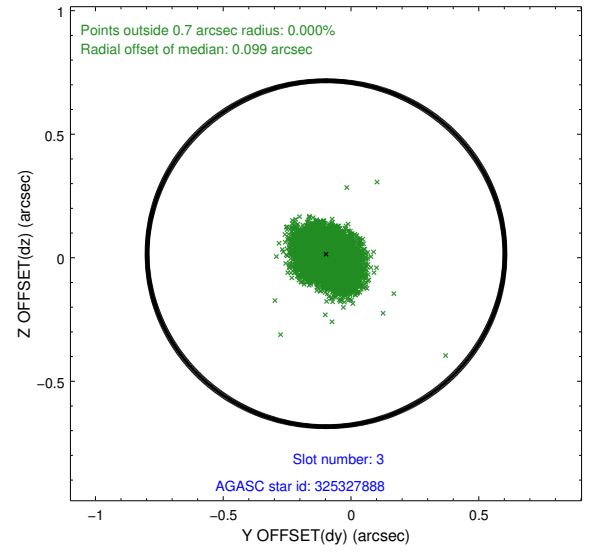
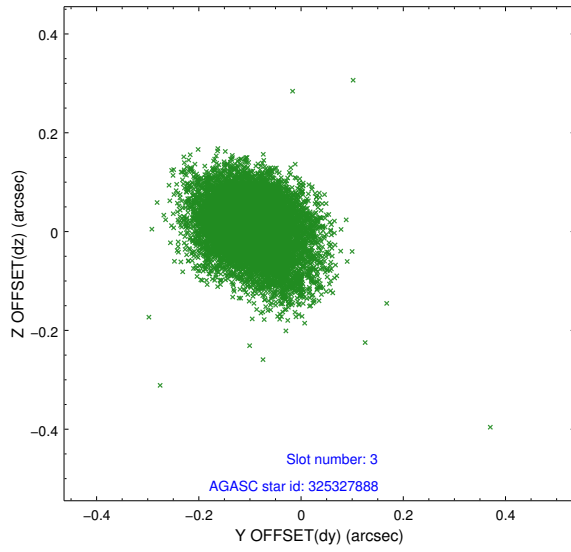


Slot Statistics

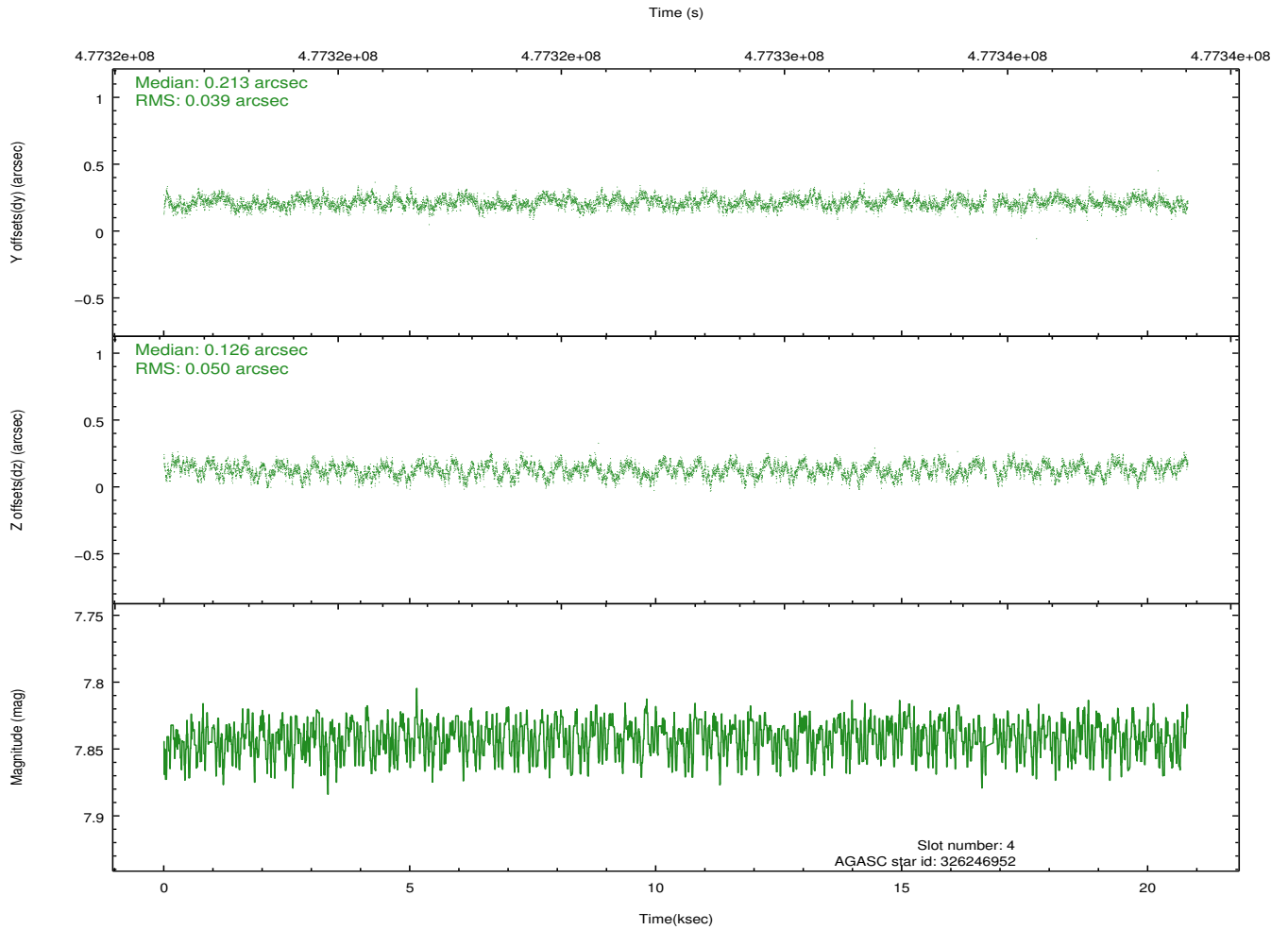
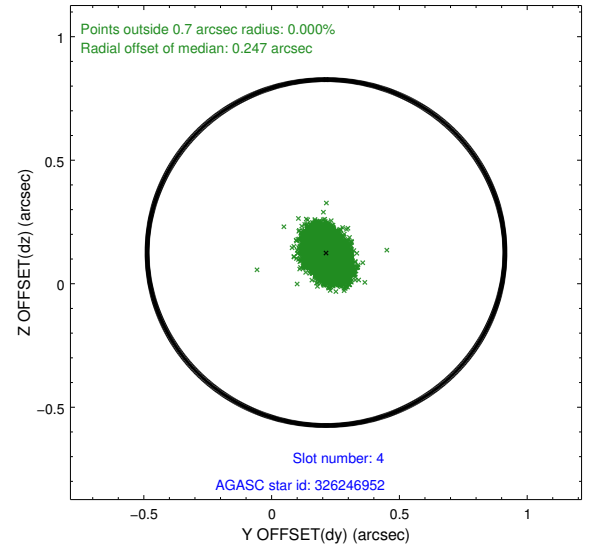
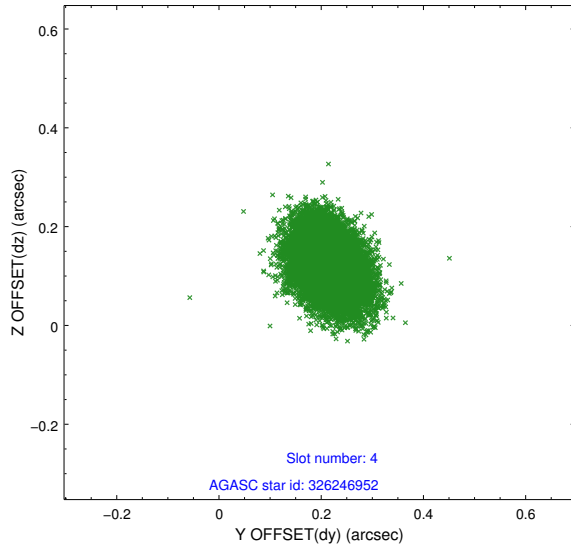
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	5078	0.129	-0.081	0.007	0.015	0.000000	0.000000	921.04	-976.32
1	FID		ACIS-I-5	7.11	5077	-0.332	0.096	0.017	0.029	0.000000	0.000000	-1827.48	921.16
2	FID		ACIS-I-6	7.14	5078	0.112	0.055	0.016	0.030	0.000000	0.000000	386.31	1565.88
3	GUIDE	used	325327888	8.46	10154	-0.098	0.016	0.080	0.137	125.941063	36.314094	998.31	-2109.43
4	GUIDE	used	326246952	7.84	10088	0.213	0.126	0.069	0.109	126.424344	36.503461	-460.80	-1565.18
5	GUIDE	used	326247656	8.68	10094	0.065	-0.045	0.095	0.155	127.050270	35.954498	-296.71	1115.12
6	GUIDE	used	326250176	8.07	10150	-0.014	0.069	0.066	0.108	126.704328	36.635280	-1363.94	-1308.80
7	GUIDE	used	326251792	8.24	10153	-0.157	-0.159	0.082	0.128	126.827975	35.817272	509.17	991.31

2.4 Star Slots

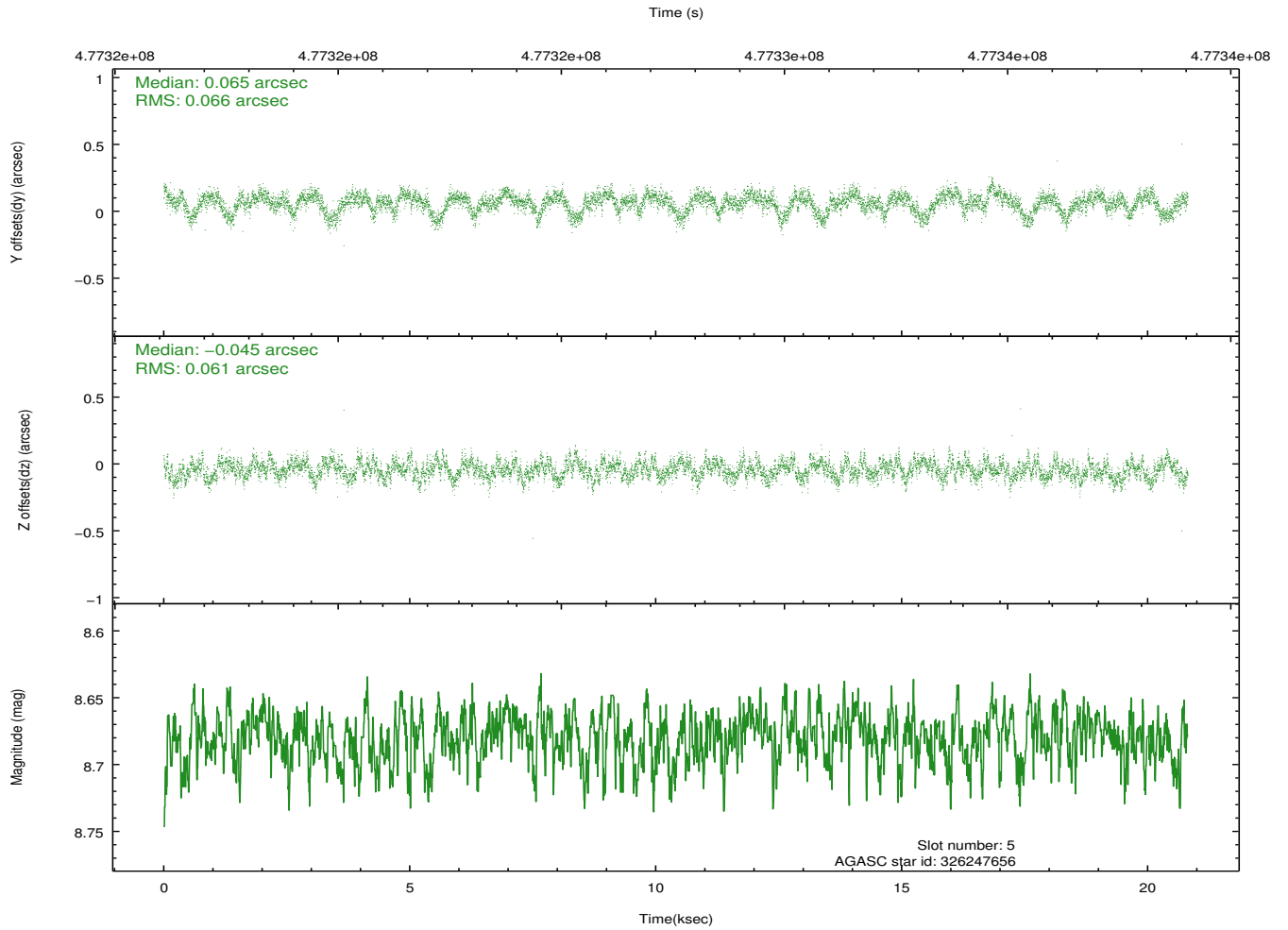
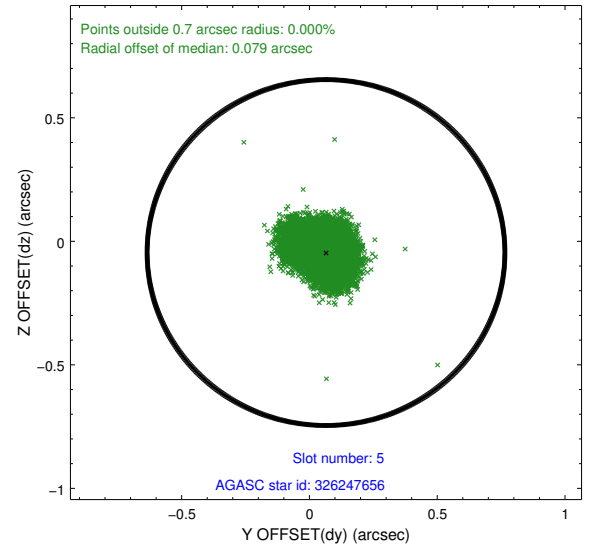
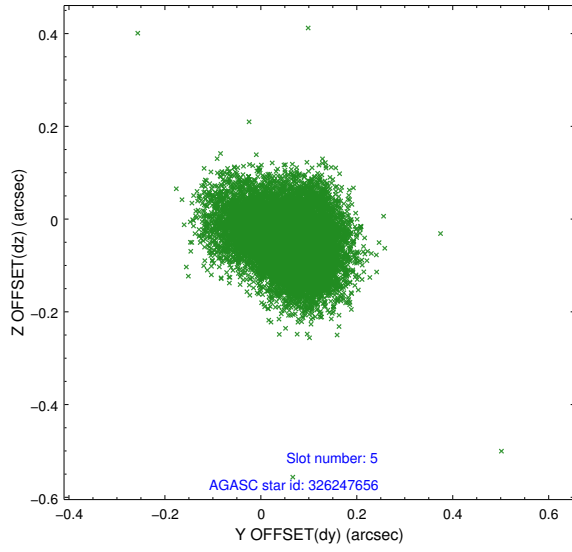
2.4.1 Slot 3



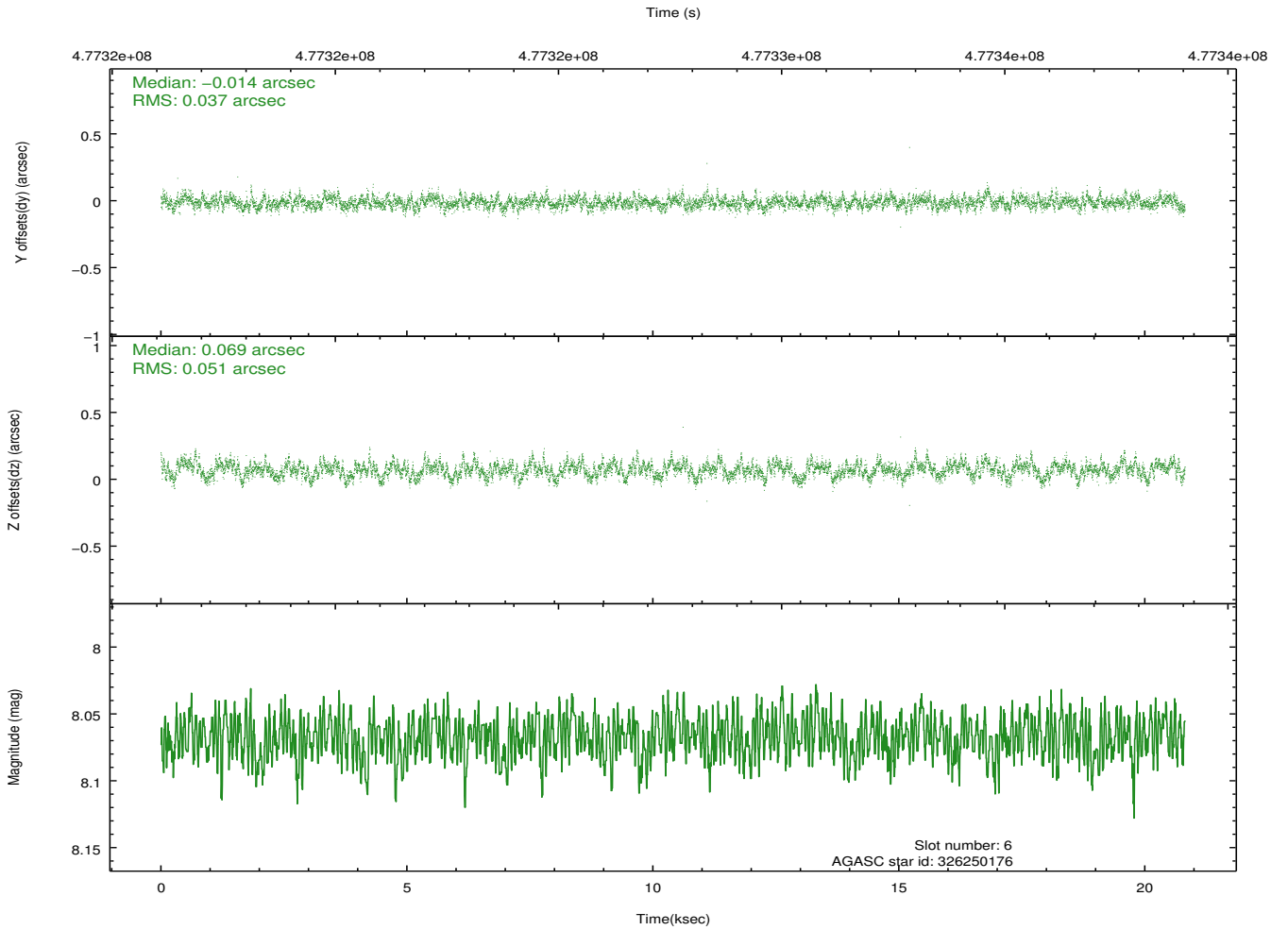
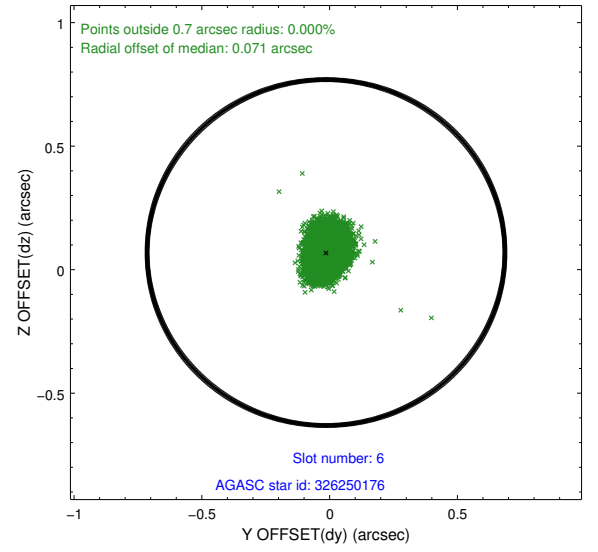
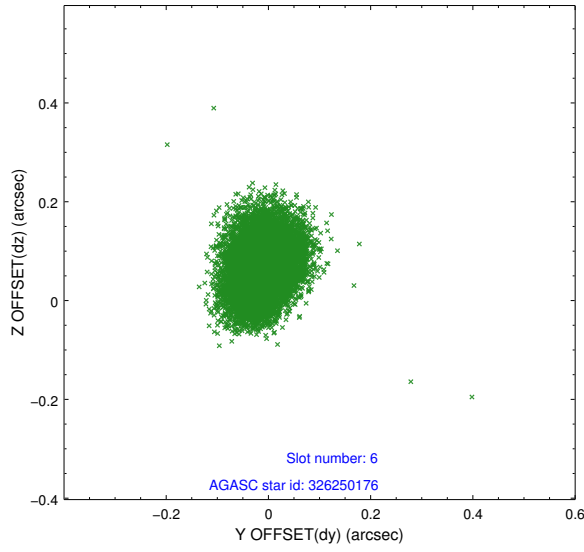
2.4.2 Slot 4



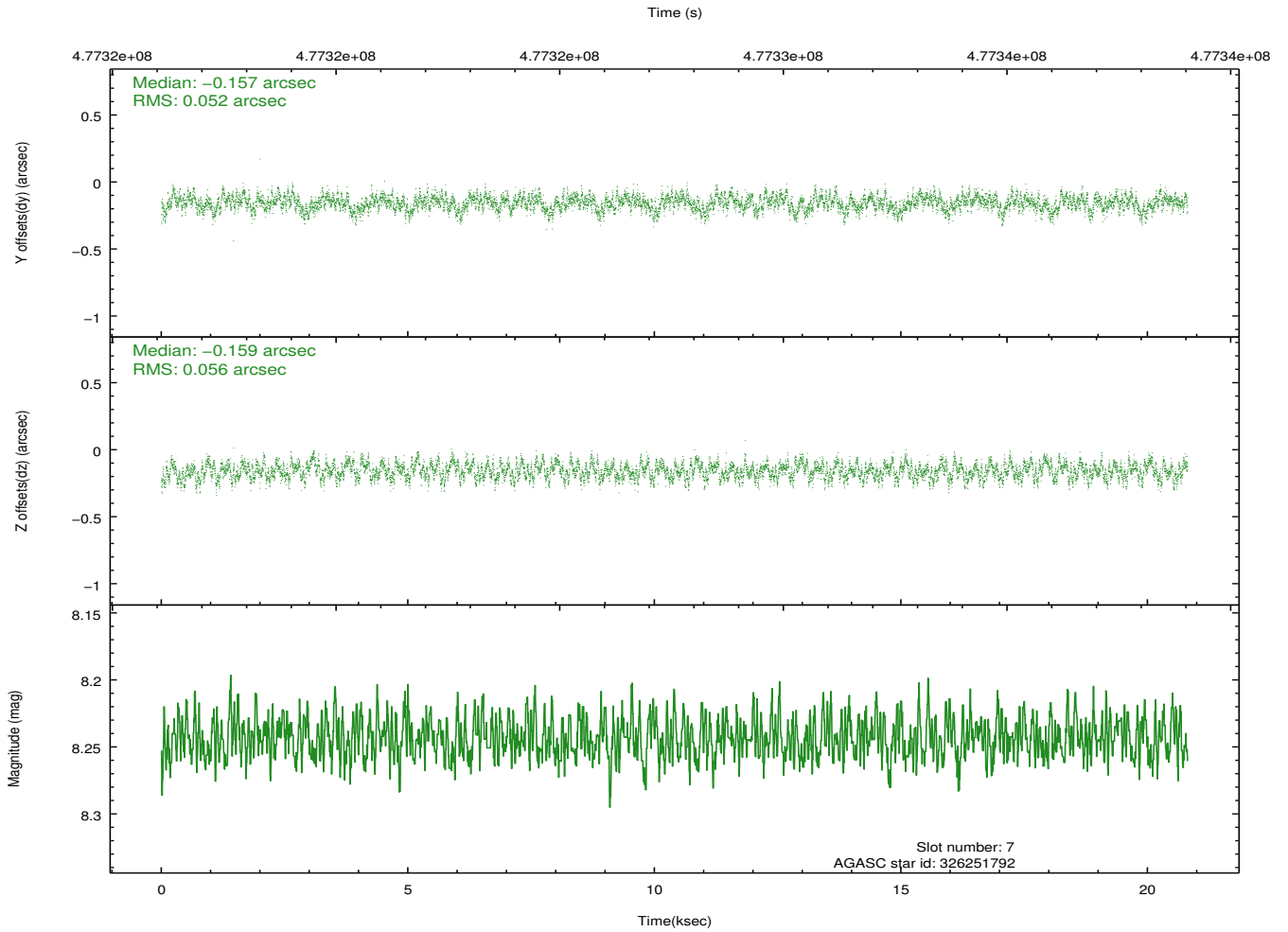
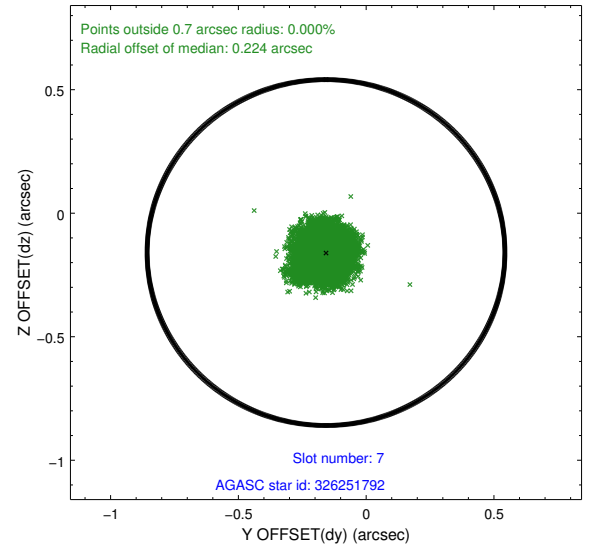
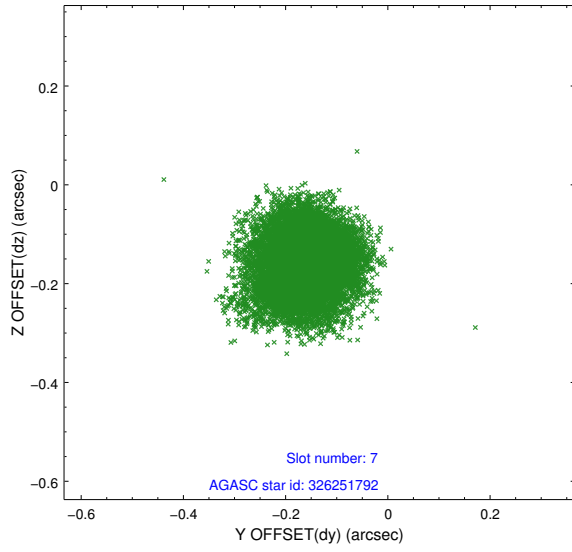
2.4.3 Slot 5



2.4.4 Slot 6

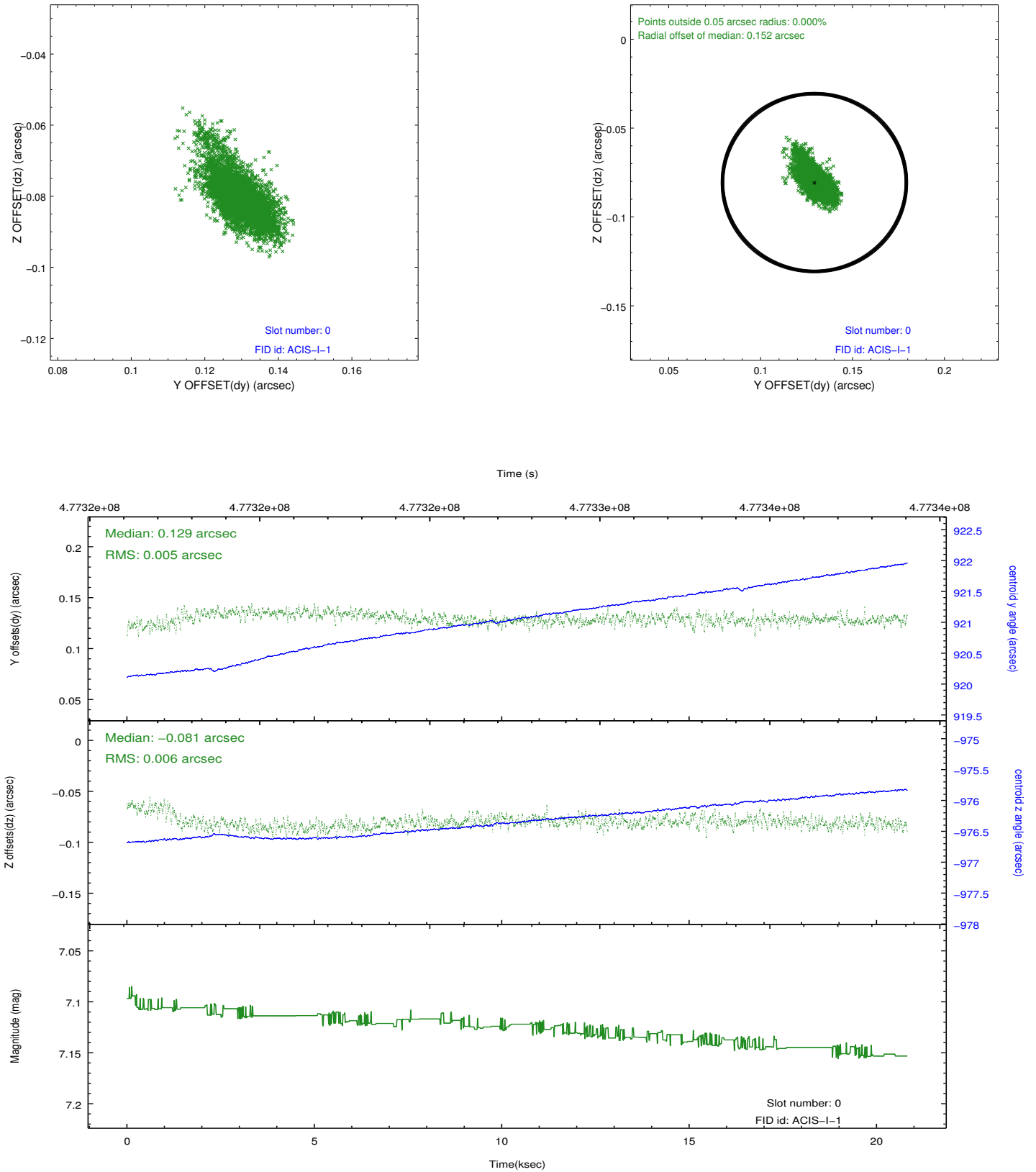


2.4.5 Slot 7

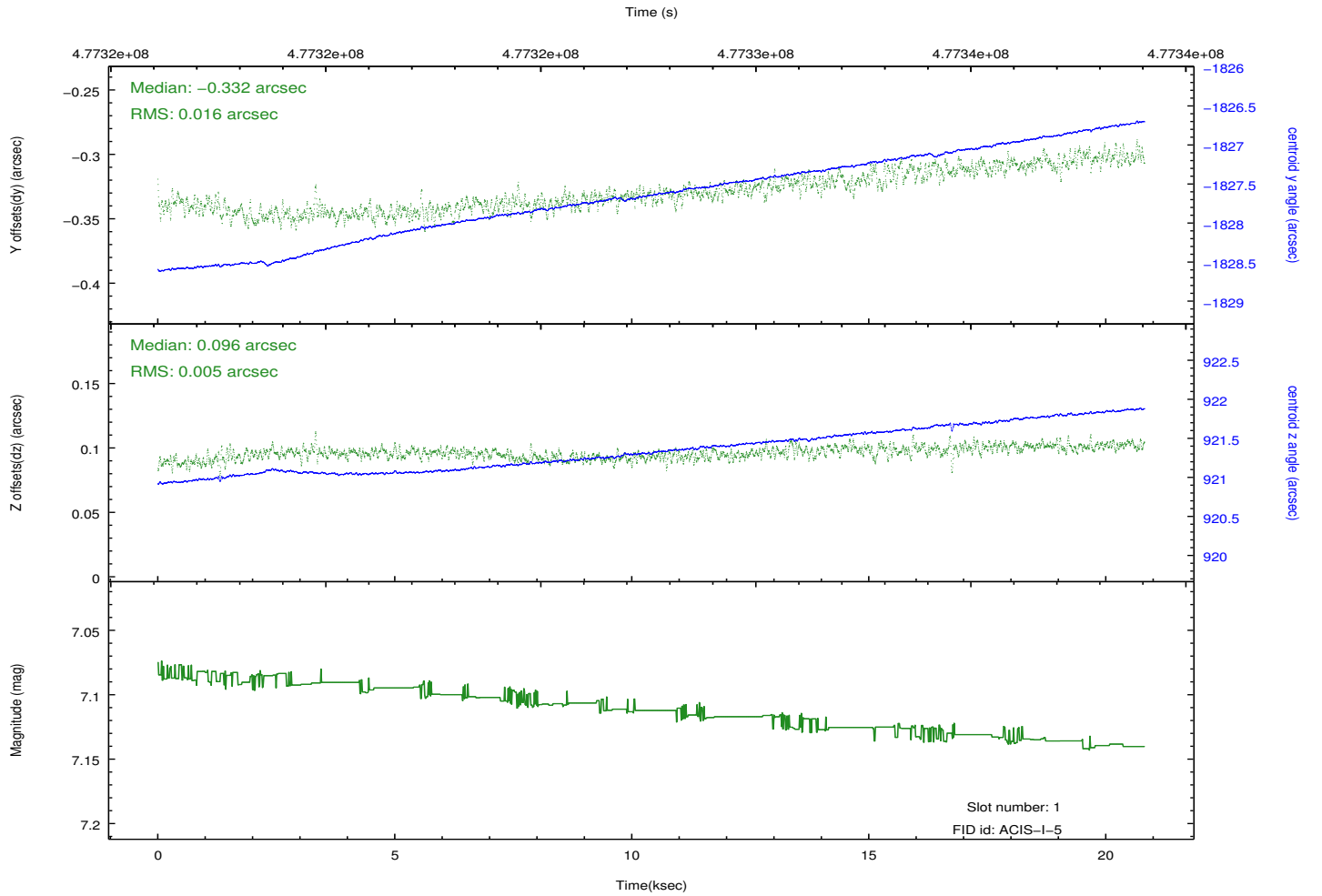
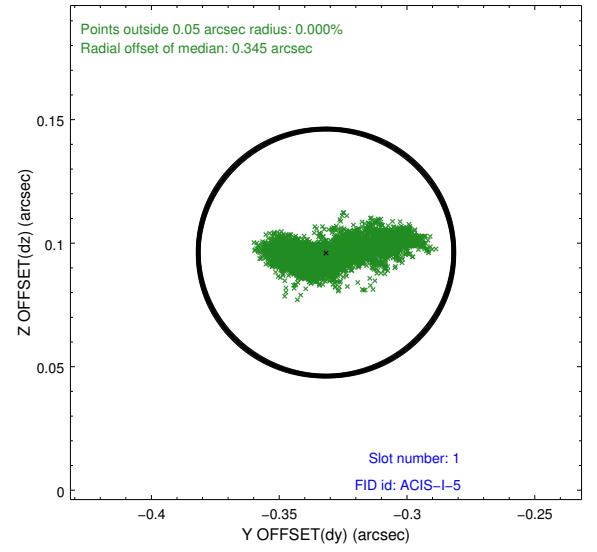
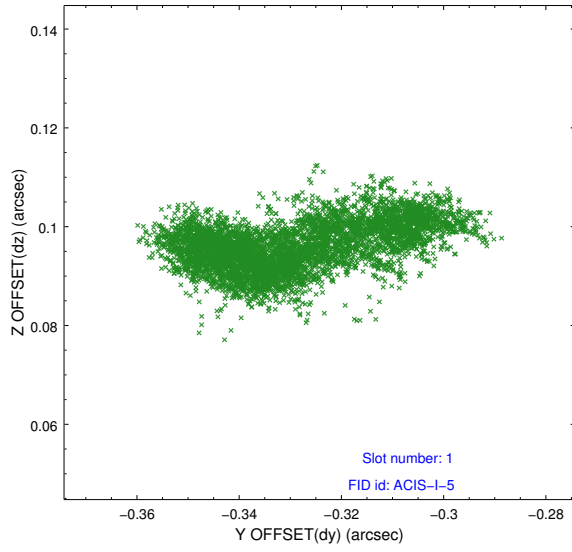


2.5 FID Slots

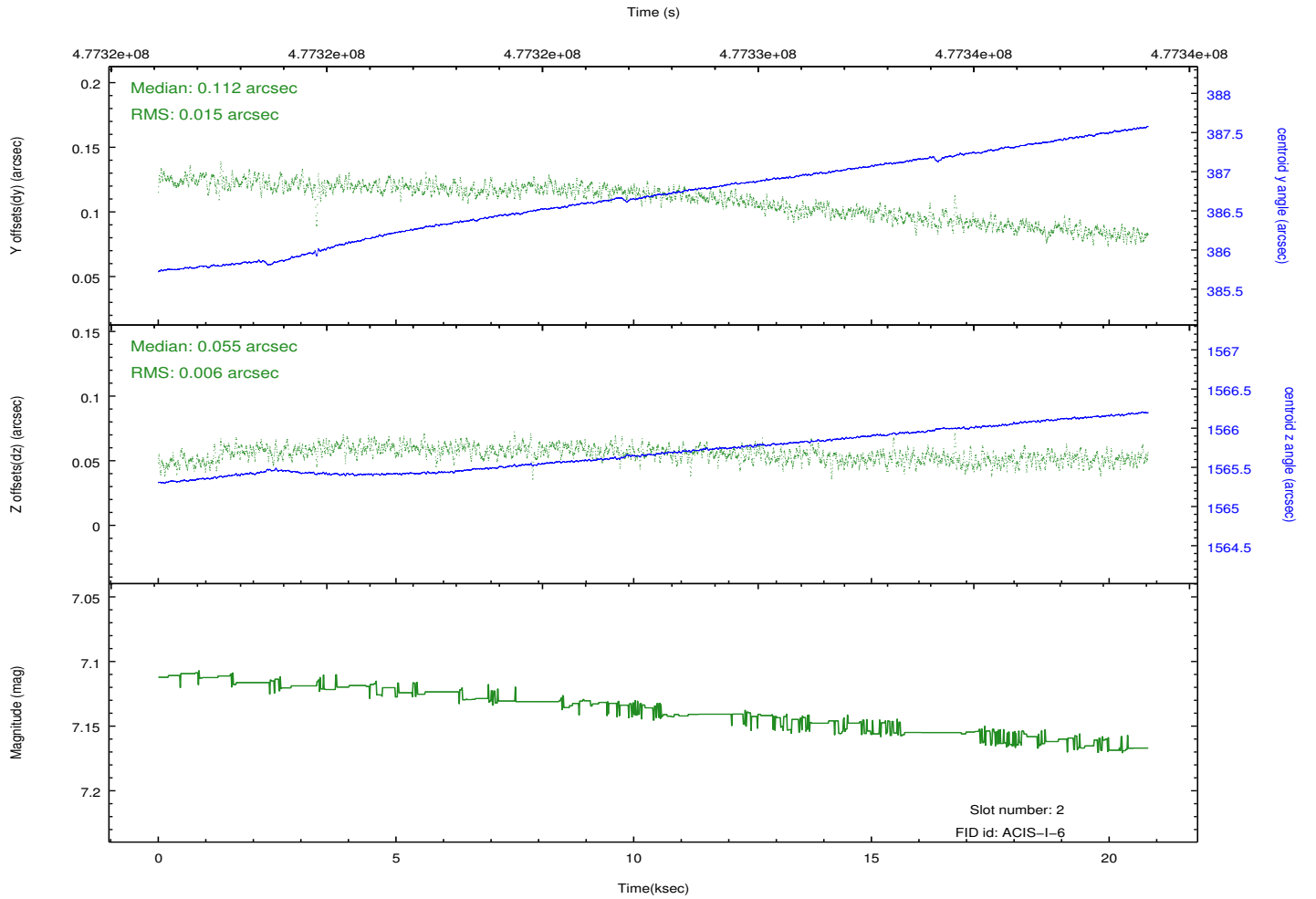
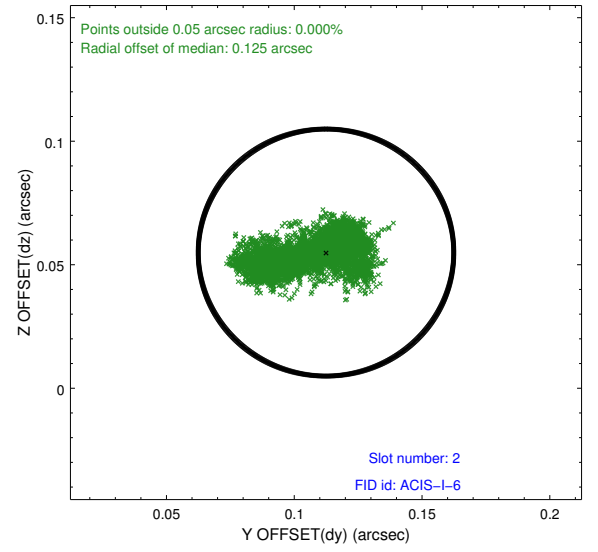
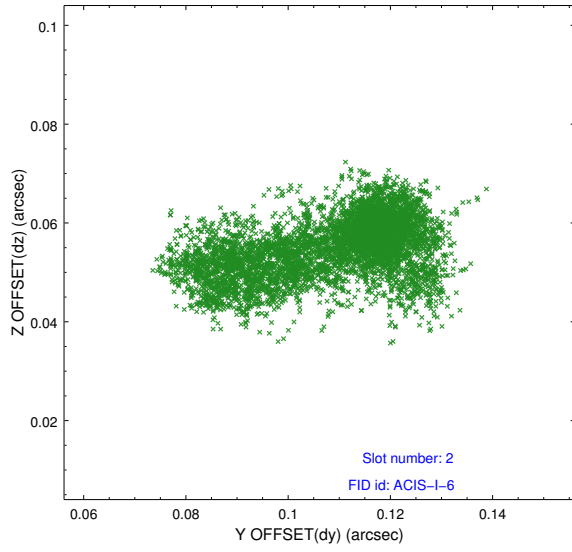
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.081800154448

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.