

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16439 - L2 Version 2
Chandra X-Ray Center

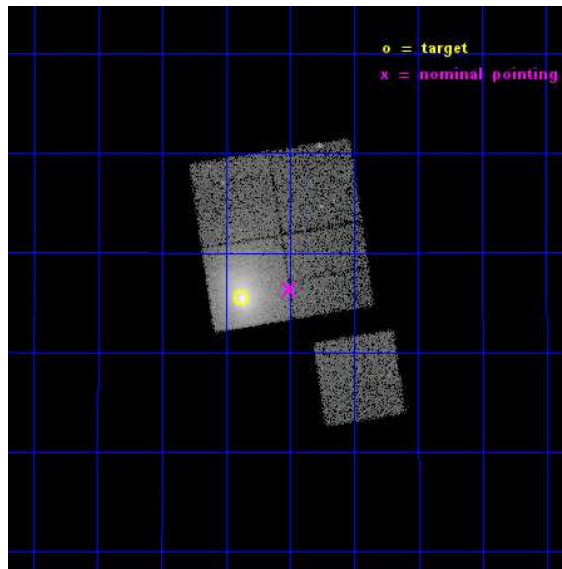
L2 Processing Date : Dec 10 2014

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1 Front

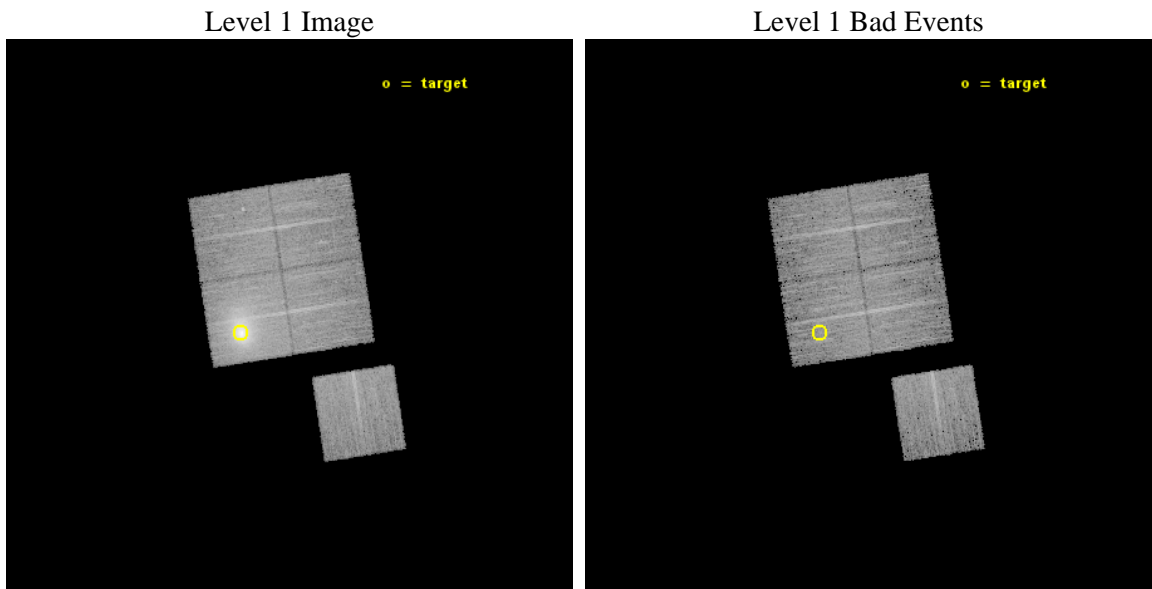
seq_num	890086	Sequence number
obs_id	16439	Observation id
title	AO-15 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.12633602835	Nominal RA [deg]
dec_nom	26.605805378932	Nominal Dec [deg]
roll_nom	171.19949589264	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14774.390869021	Sum of GTIs [s]
livetime	14581.352575569	Livetime [s]
ontime0	14777.408819437	Sum of GTIs [s]
ontime1	14777.44985956	Sum of GTIs [s]
ontime2	14777.490899563	Sum of GTIs [s]
ontime3	14774.390869021	Sum of GTIs [s]
ontime6	14777.367779553	Sum of GTIs [s]
l2events	125041	Number of level 2 events



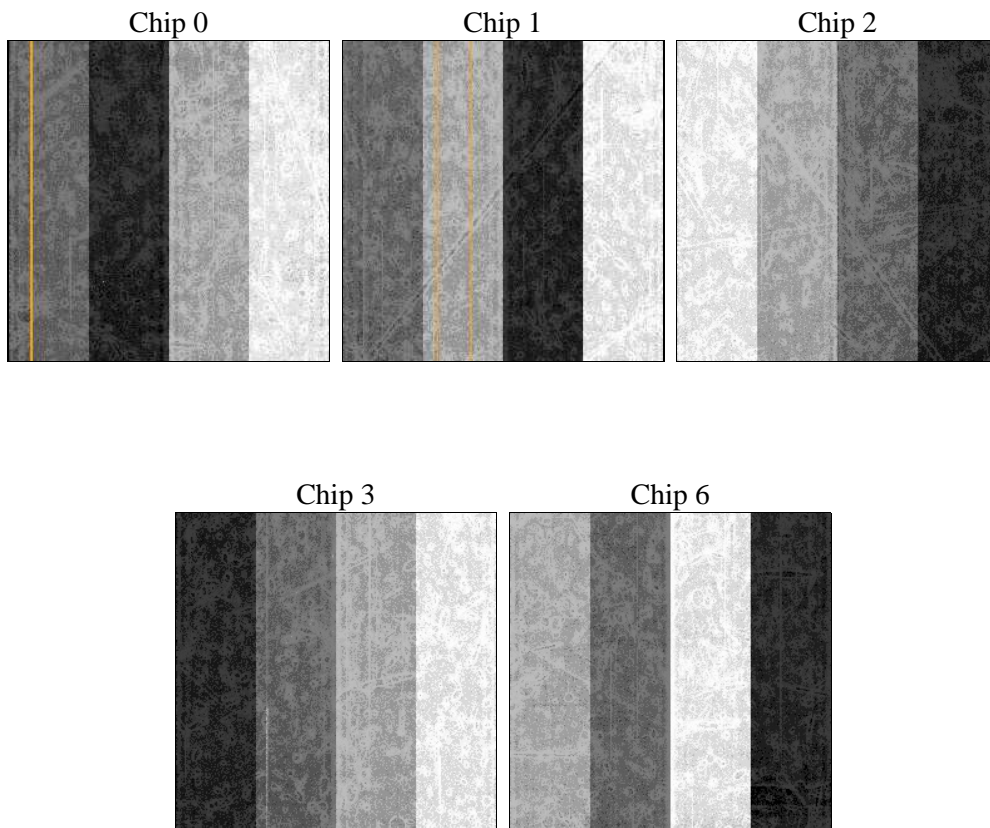
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	14774.390869021	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	14777.408819437	Sum of GTIs [s]
date	2014-12-11T02:41:40	Date and time of file creation	ontime1	14777.44985956	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	14777.490899563	Sum of GTIs [s]
			ontime3	14774.390869021	Sum of GTIs [s]
			ontime6	14777.367779553	Sum of GTIs [s]
			l1events	424696	Number of level 1 events

2.1.4 Events

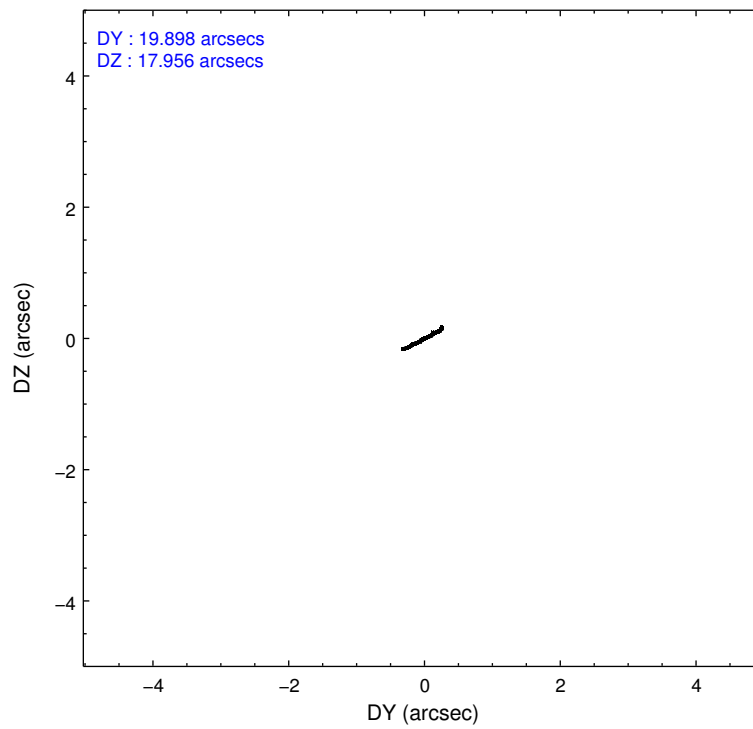
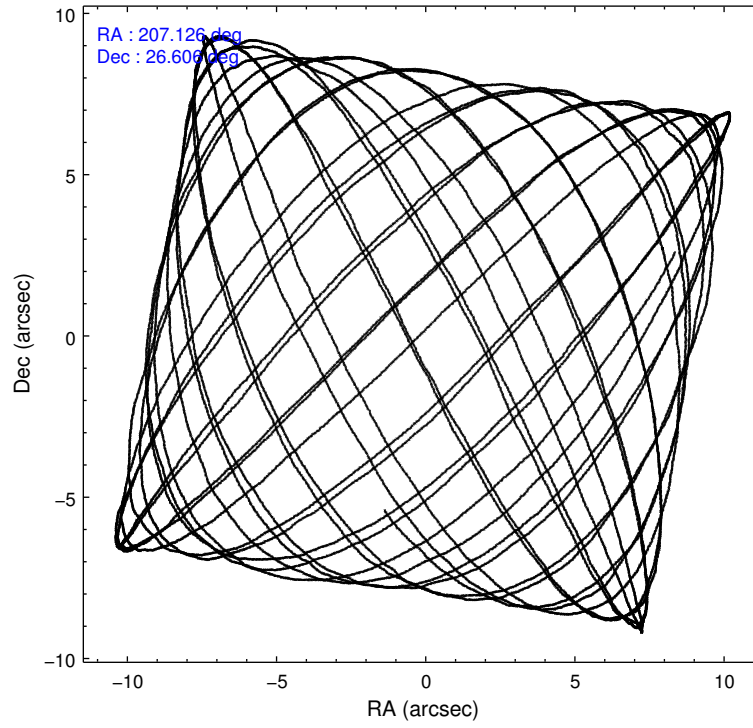
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	63595	68208	70320	154513	68060
rejected events	54452	56116	59959	61135	59201
rejected %	85%	82%	85%	39%	86%

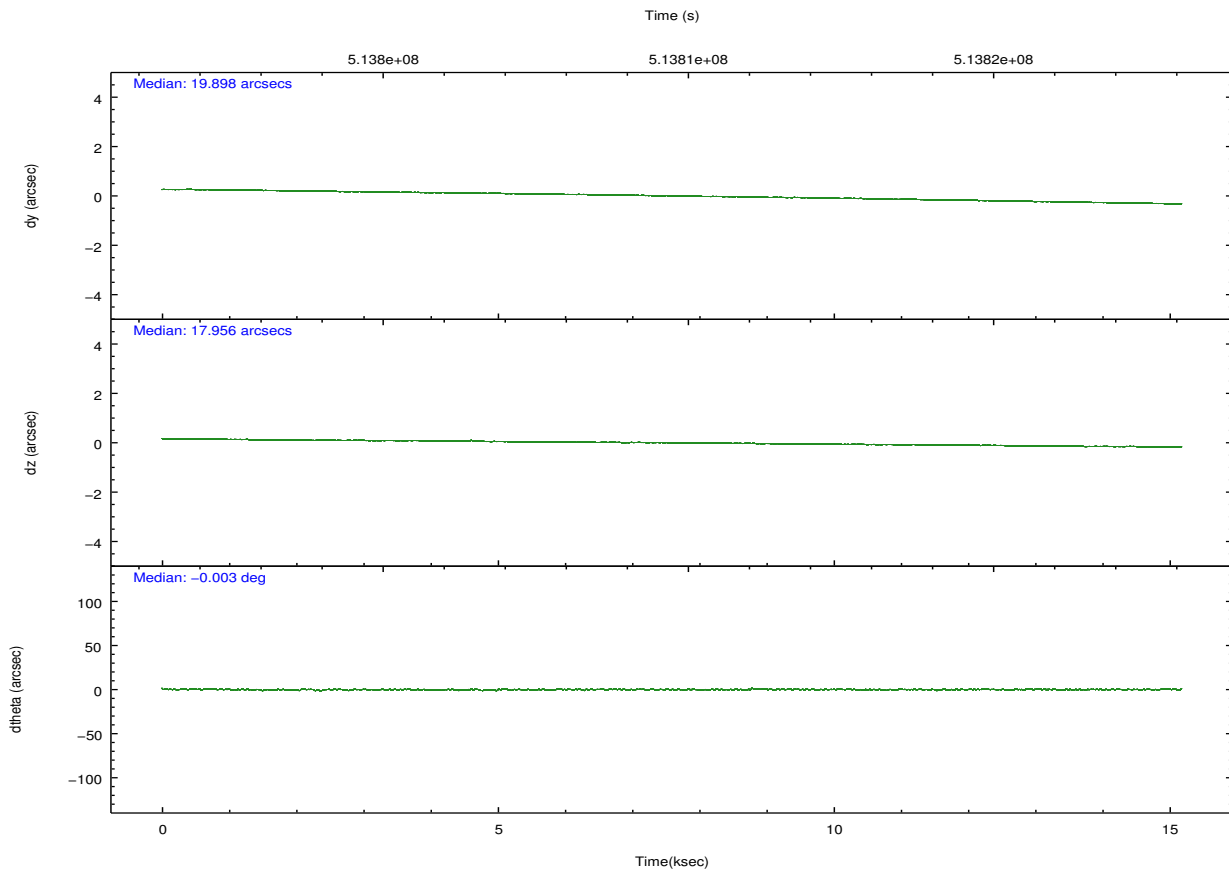
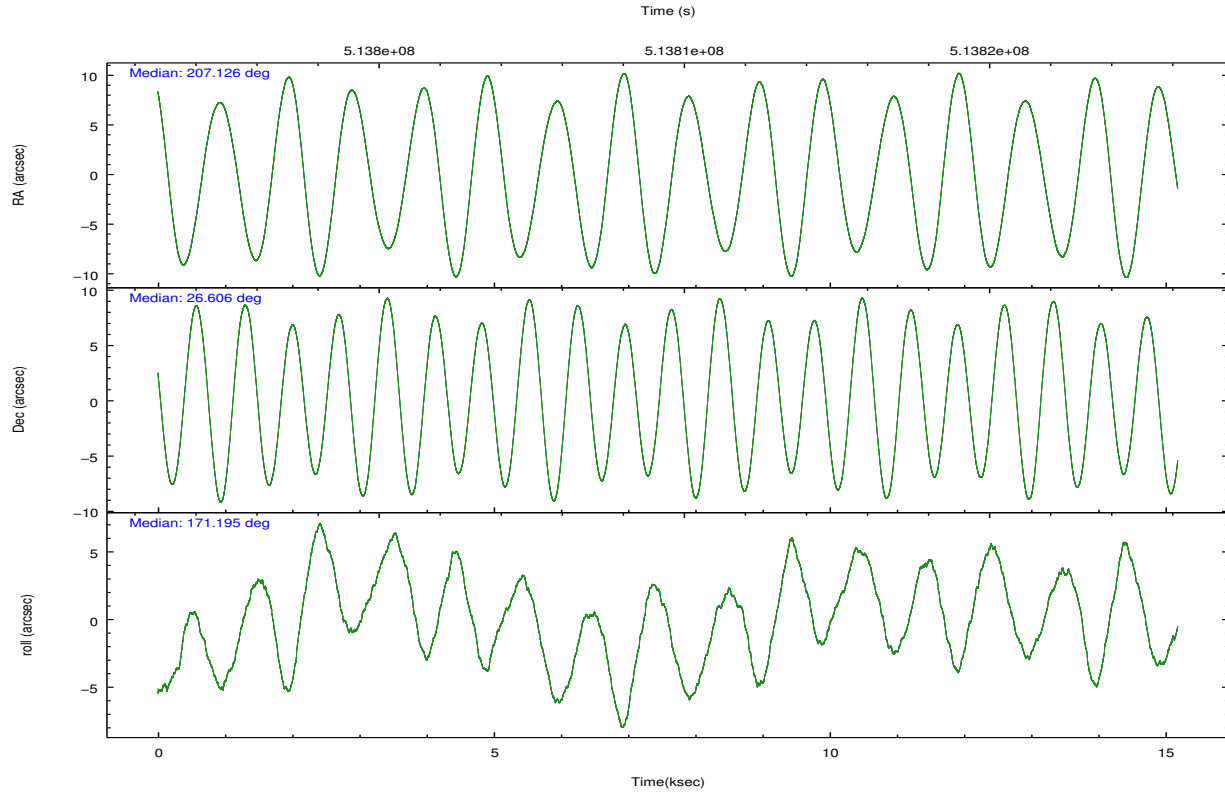
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3599	5671	4857	71363	3131
	5%	8%	6%	46%	4%
grade 1 events	49	50	43	267	34
	0%	0%	0%	0%	0%
grade 2 events	2053	2362	2137	10790	1929
	3%	3%	3%	6%	2%
grade 3 events	890	969	881	3682	806
	1%	1%	1%	2%	1%
grade 4 events	840	987	928	3585	851
	1%	1%	1%	2%	1%
grade 5 events	3283	3556	3026	3954	3576
	5%	5%	4%	2%	5%
grade 6 events	1762	2111	1560	3975	2145
	2%	3%	2%	2%	3%
grade 7 events	51119	52502	56888	56897	55588
	80%	76%	80%	36%	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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.154956	207.1263360283469	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.615881	26.60580537893228	Alternating exposures requested	N	N
[deg] Pointing Roll	170.977981	171.1994958926379	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	512697667.184000	512697667.184000			
[s] Window stop time (MET)	515203267.184000	515203267.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-219.472463	-219.4695540425693			
[mm] SIM translation stage offset	-14.12	-14.1228989603604			
[s] Observation start time (MET)	513802315.184000	513801938.9954			
Observation start date	2014-04-13T18:50:48	2014-04-13T18:45:38			
[s] Observation end time (MET)	513817315.184000	513817448.78375			
Observation end date	2014-04-13T23:00:48	2014-04-13T23:04:08			
Read mode	TIMED	TIMED			

2.3 Aspect



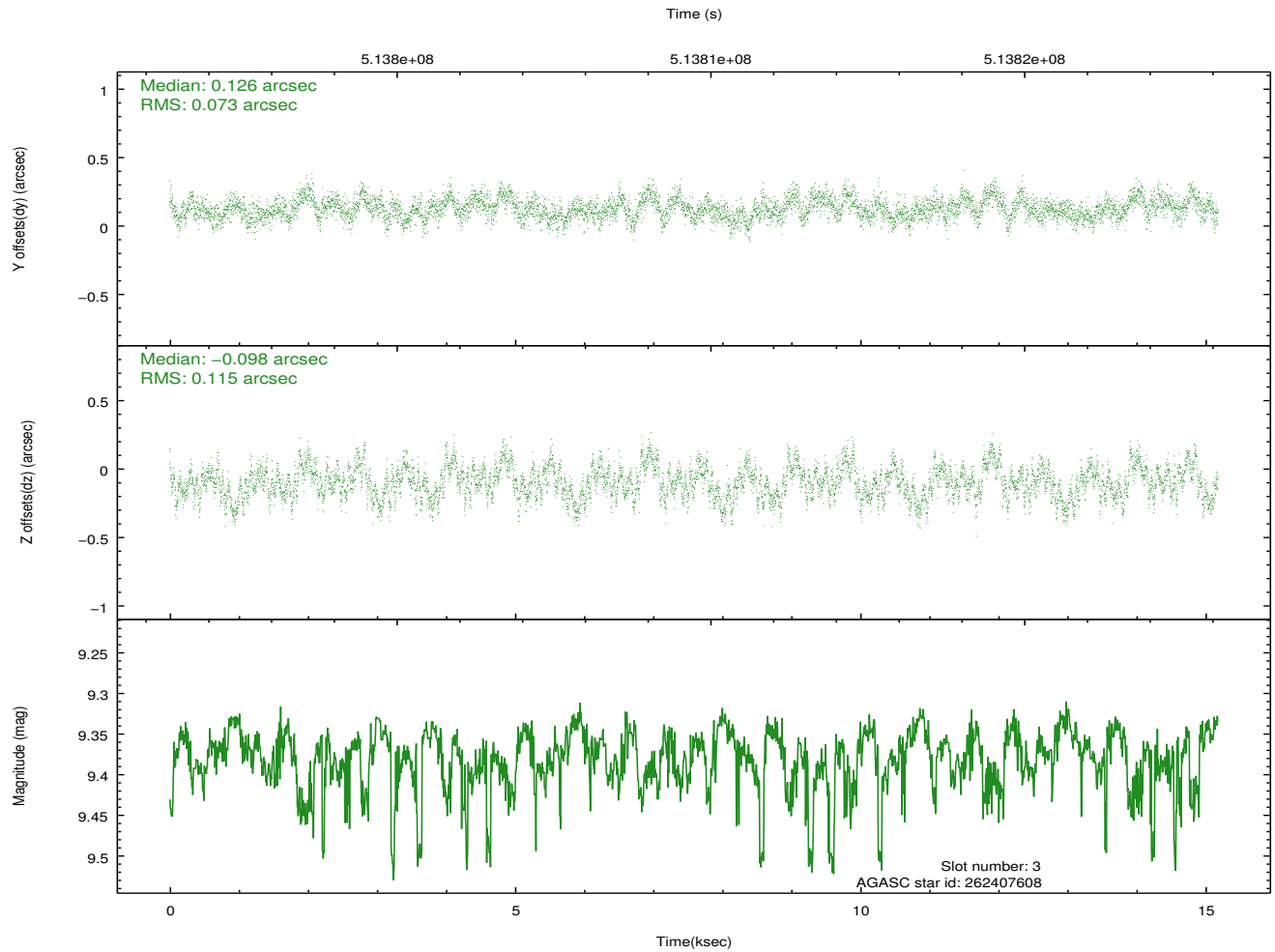
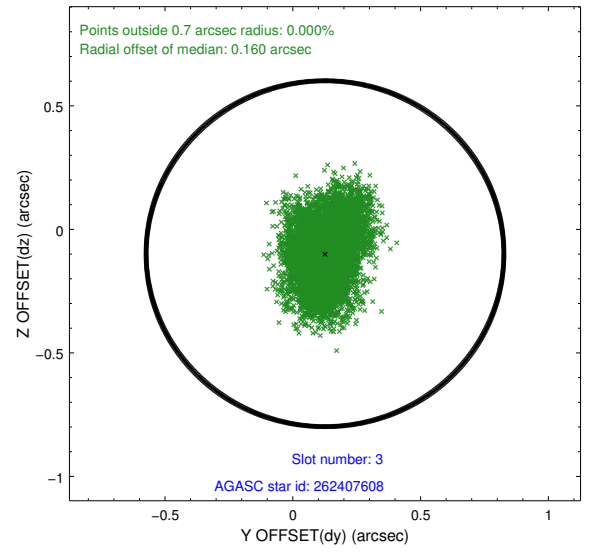
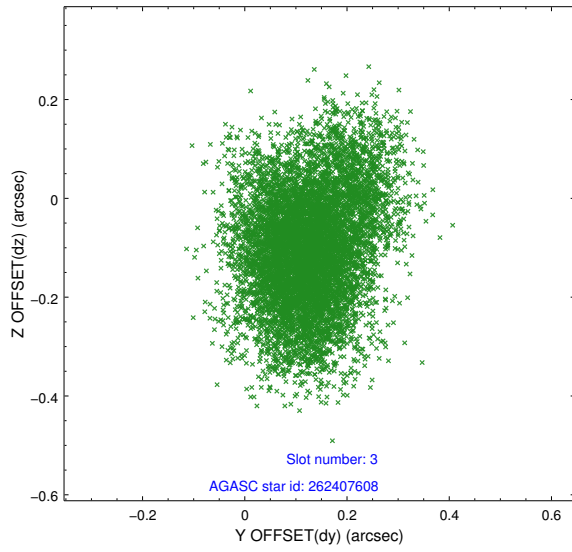


Slot Statistics

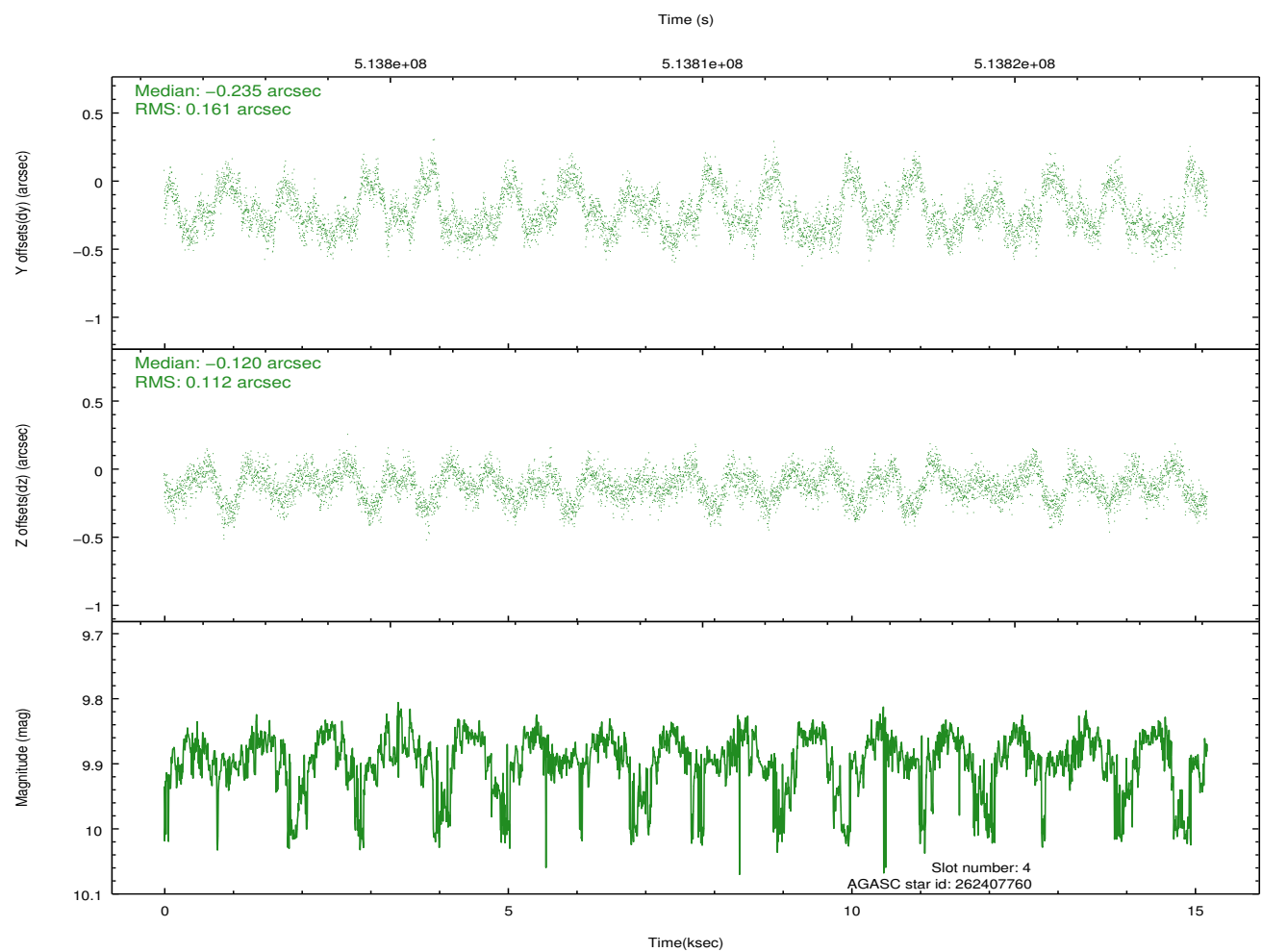
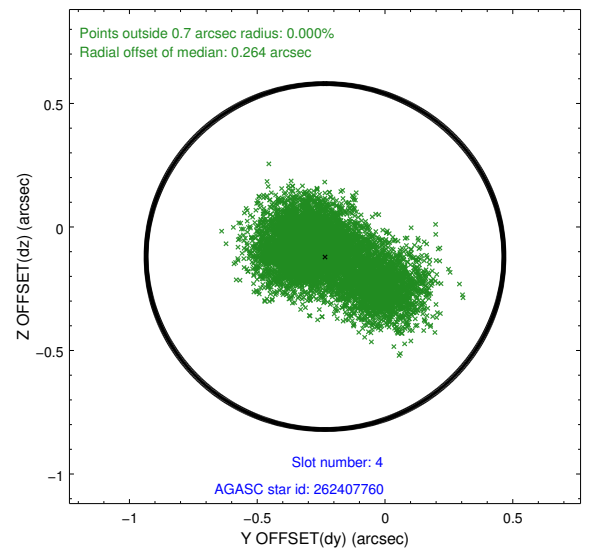
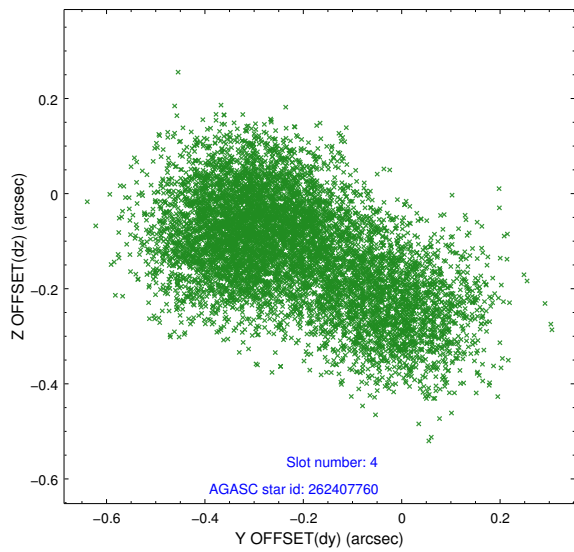
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	3703	0.218	-0.192	0.011	0.020	0.000000	0.000000	919.41	-1131.81
1	FID		ACIS-I-5	7.14	3703	-0.435	0.140	0.008	0.014	0.000000	0.000000	-1829.22	765.73
2	FID		ACIS-I-6	7.16	3703	0.125	0.122	0.009	0.013	0.000000	0.000000	384.49	1410.60
3	GUIDE	used	262407608	9.38	7402	0.126	-0.098	0.145	0.242	207.378401	26.435507	-812.77	527.79
4	GUIDE	used	262407760	9.89	7379	-0.235	-0.120	0.209	0.349	206.566773	26.577263	1849.71	430.17
5	GUIDE	used	262408096	9.33	7396	-0.076	-0.157	0.187	0.277	207.011678	26.515421	400.26	429.26
6	GUIDE	used	262408512	7.99	7405	0.090	0.256	0.070	0.135	207.800210	27.128796	-1750.73	-2152.74
7	GUIDE	used	262409552	8.19	7404	0.095	0.115	0.097	0.159	206.584269	27.192805	2131.74	-1768.40

2.4 Star Slots

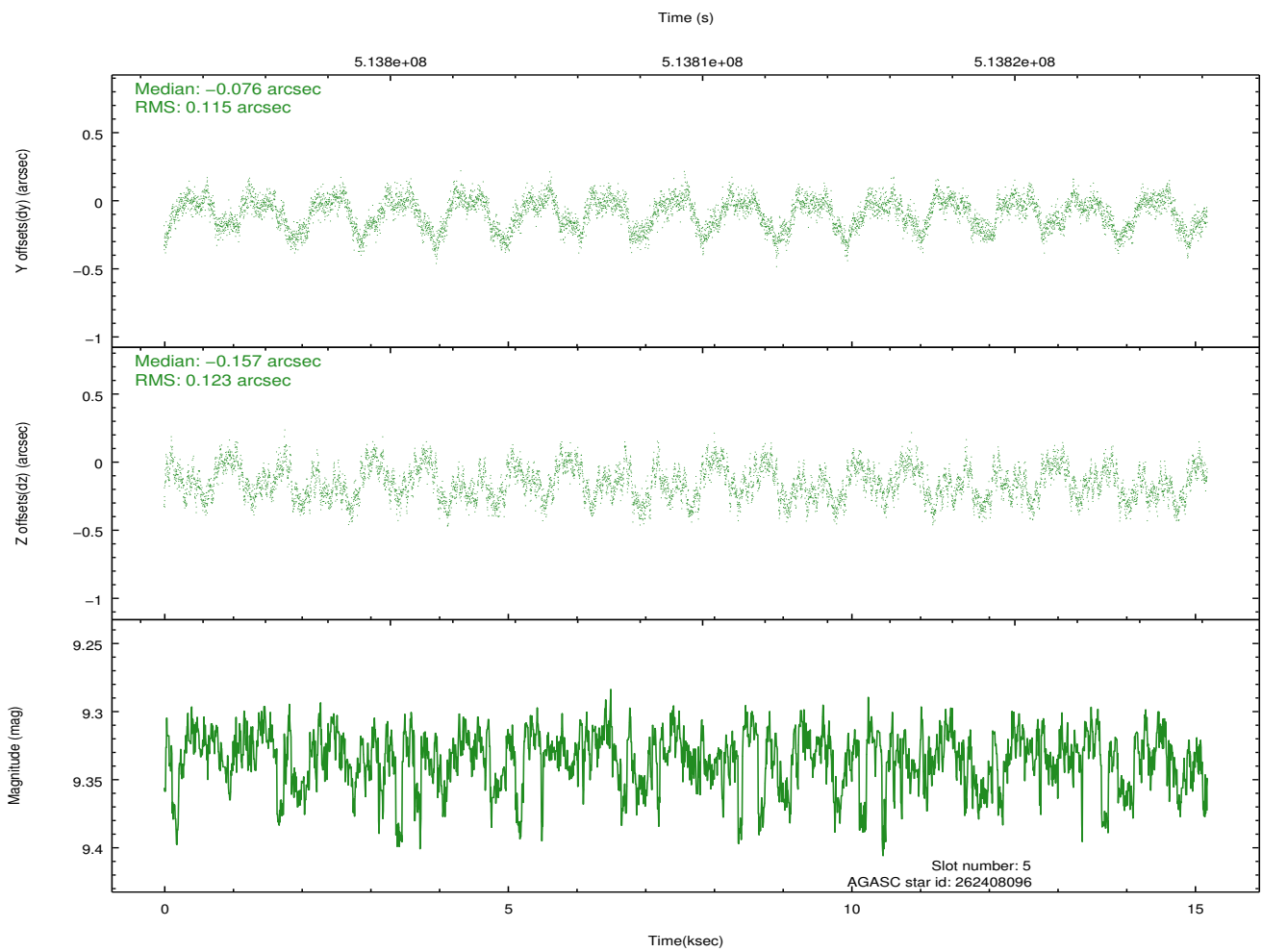
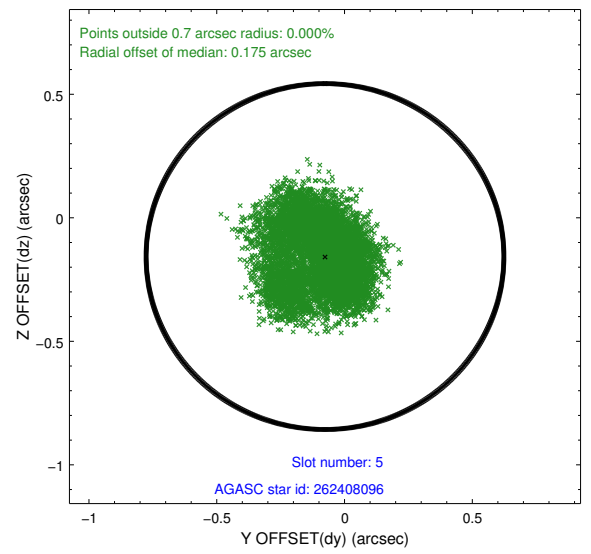
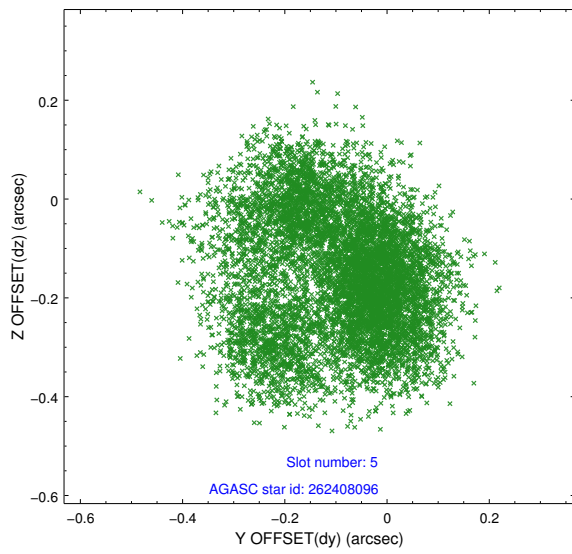
2.4.1 Slot 3



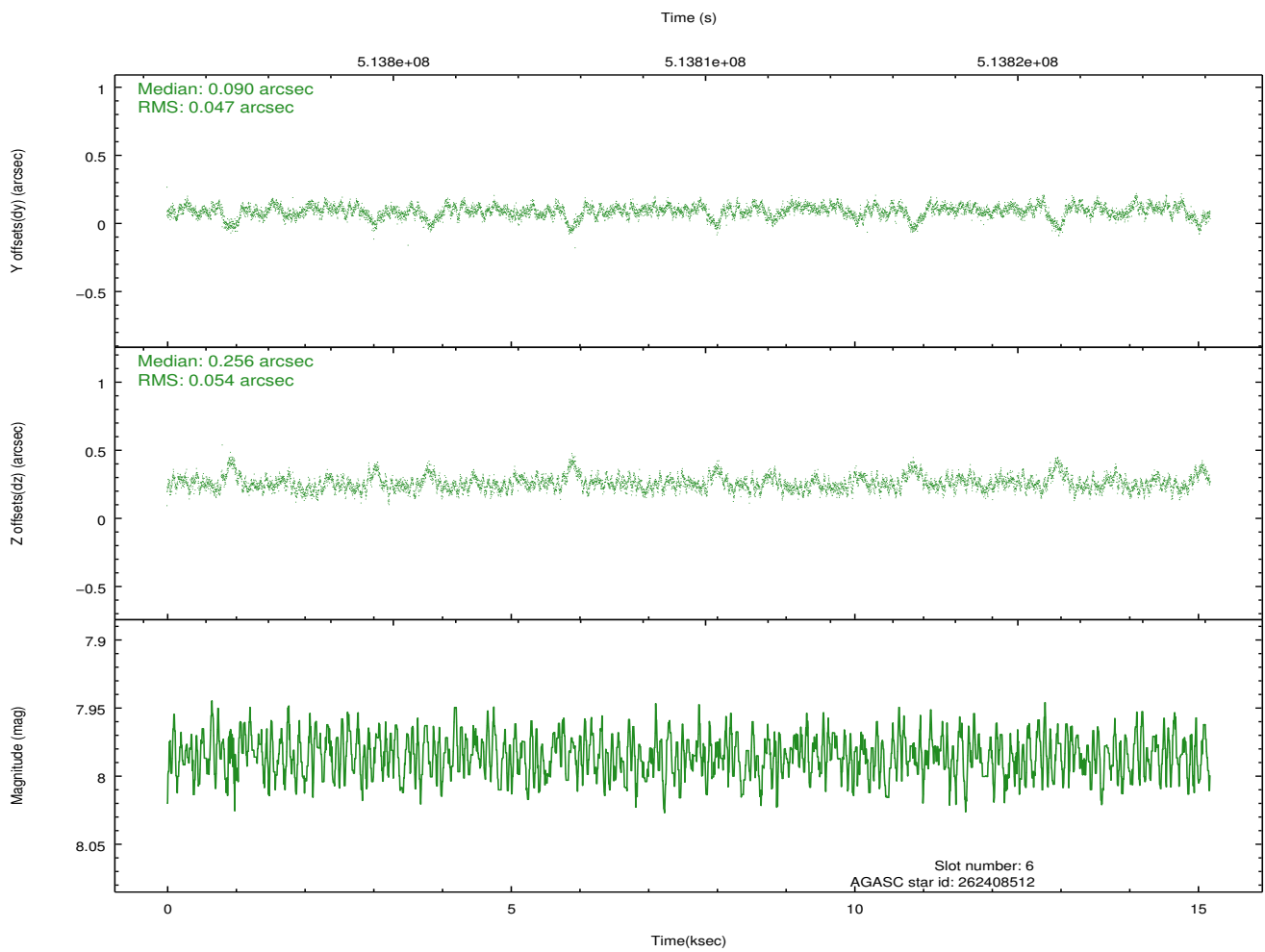
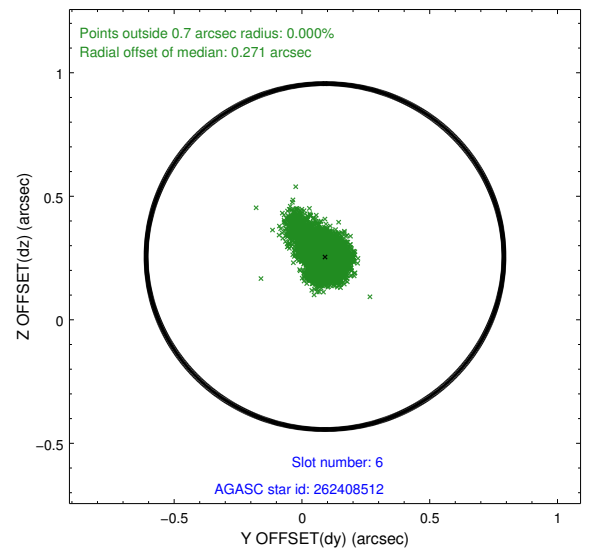
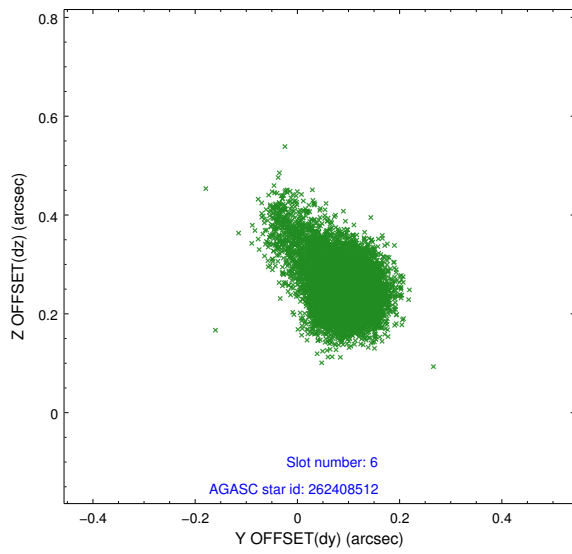
2.4.2 Slot 4



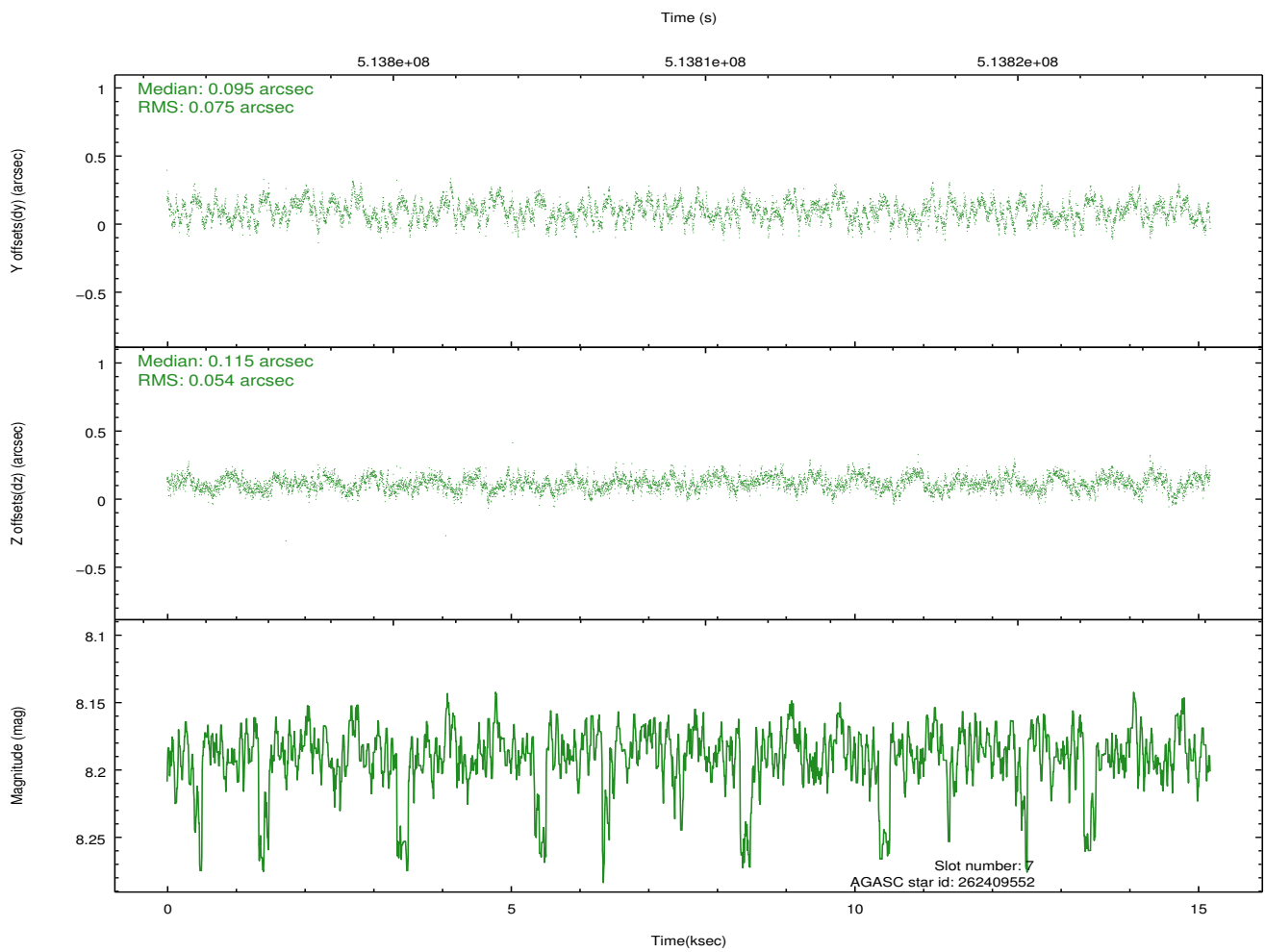
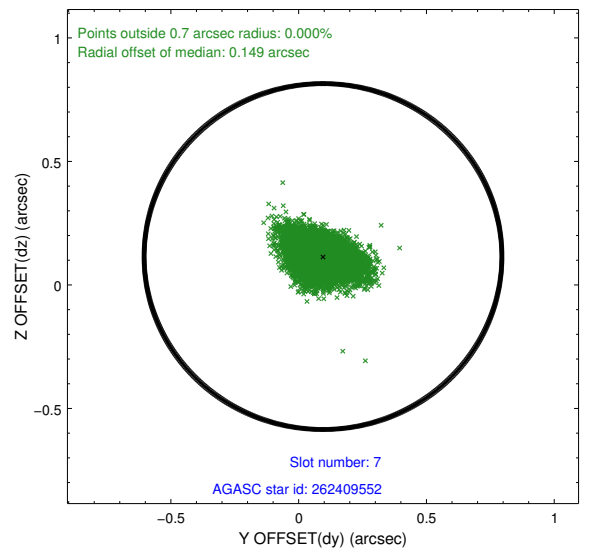
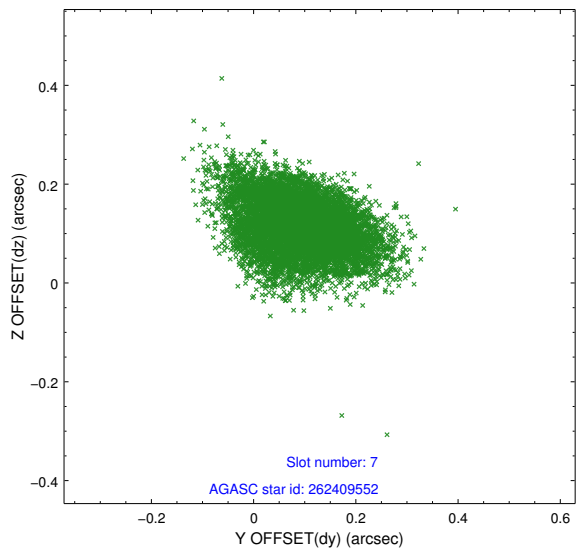
2.4.3 Slot 5



2.4.4 Slot 6

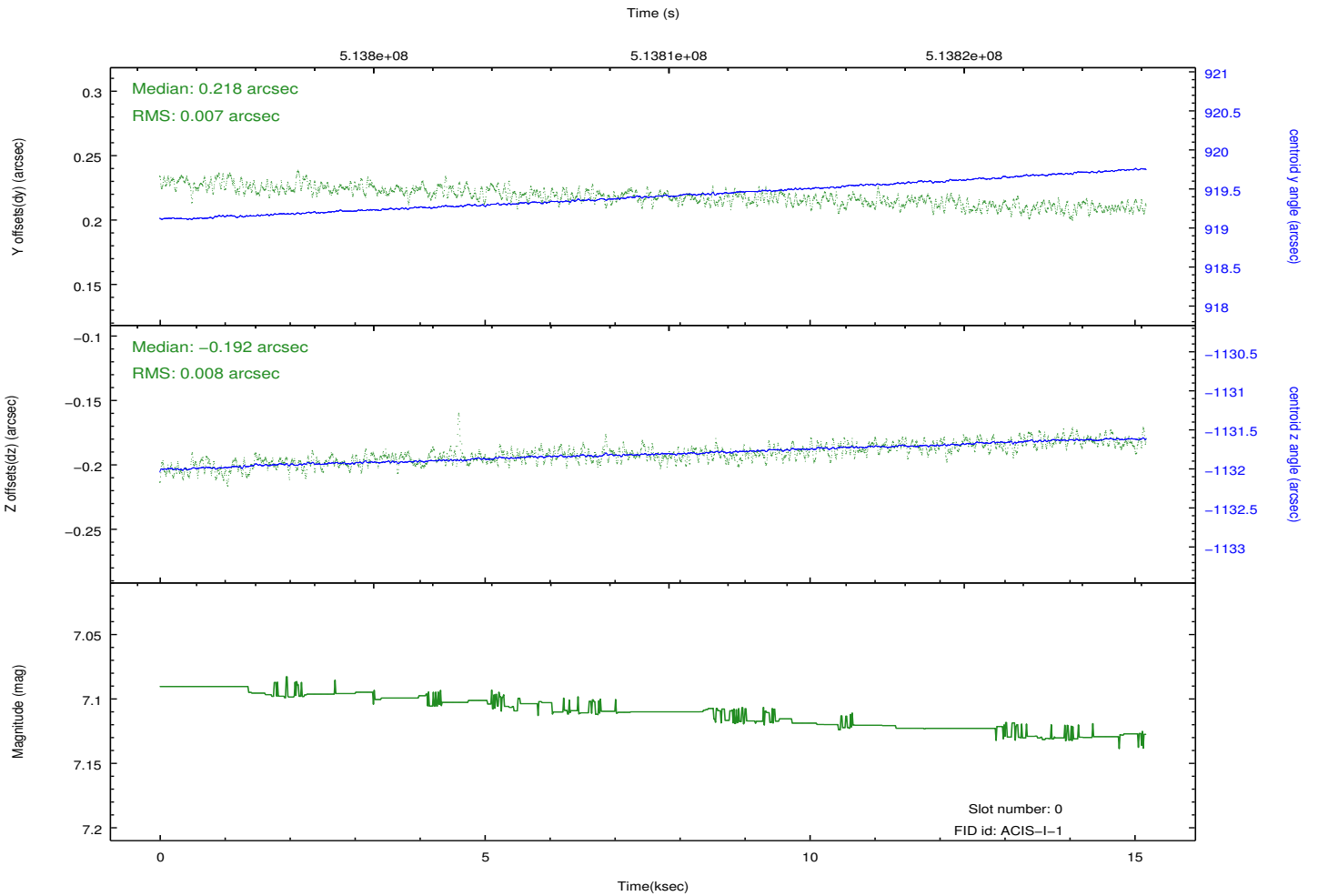
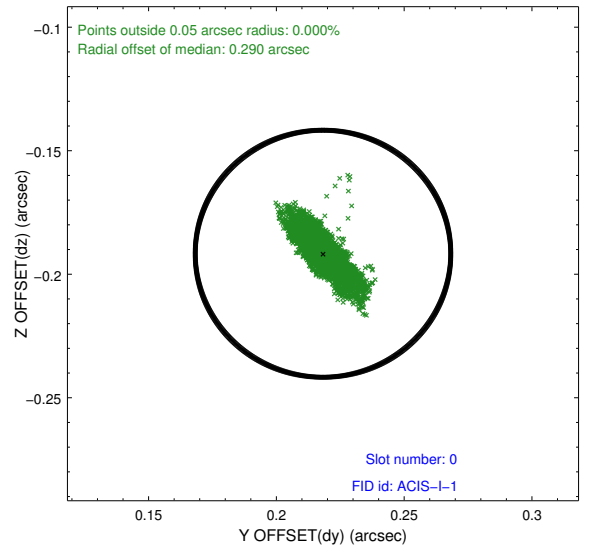
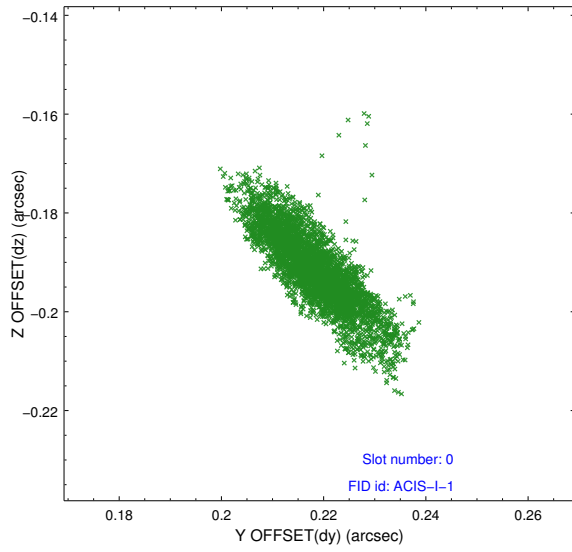


2.4.5 Slot 7

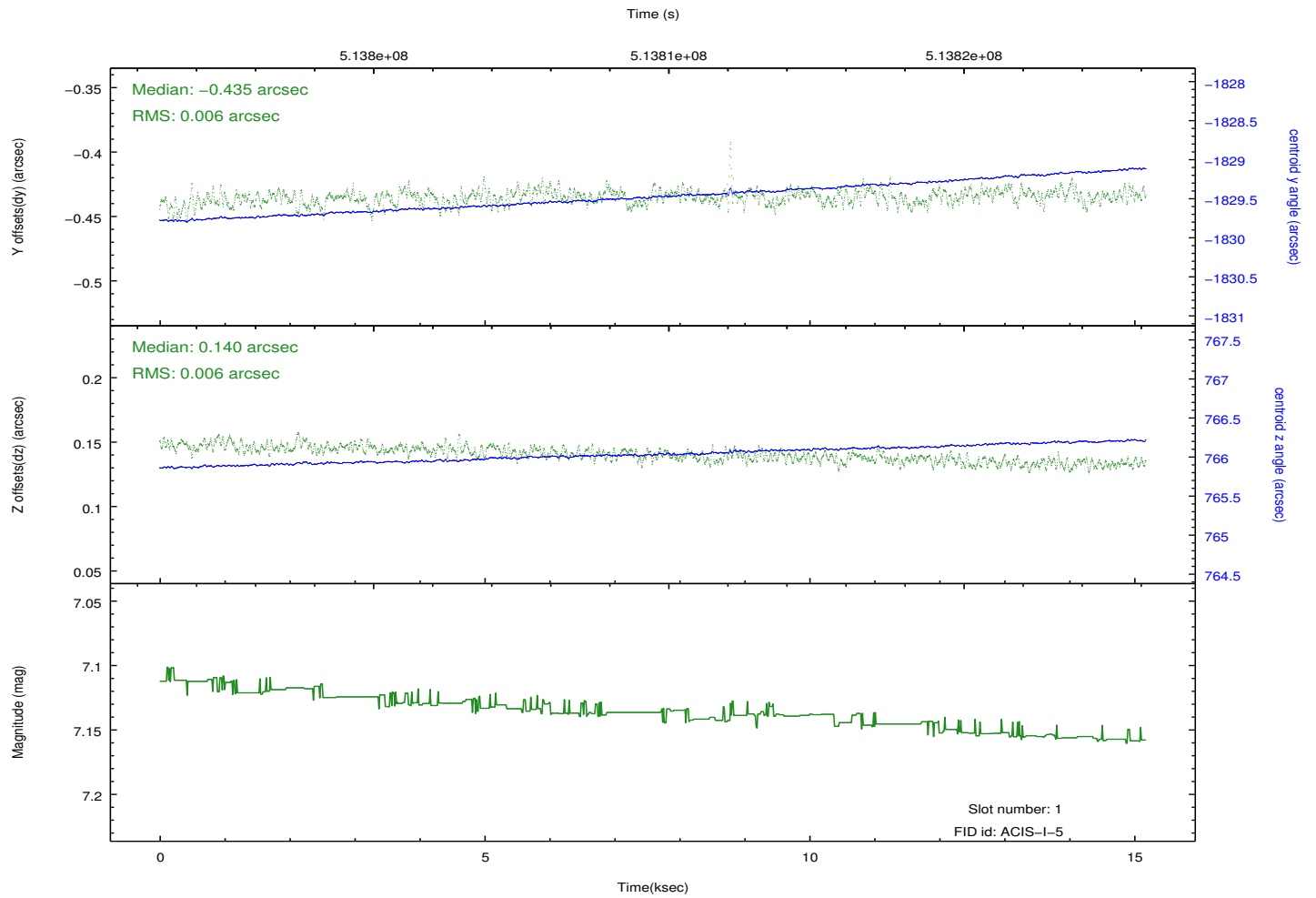
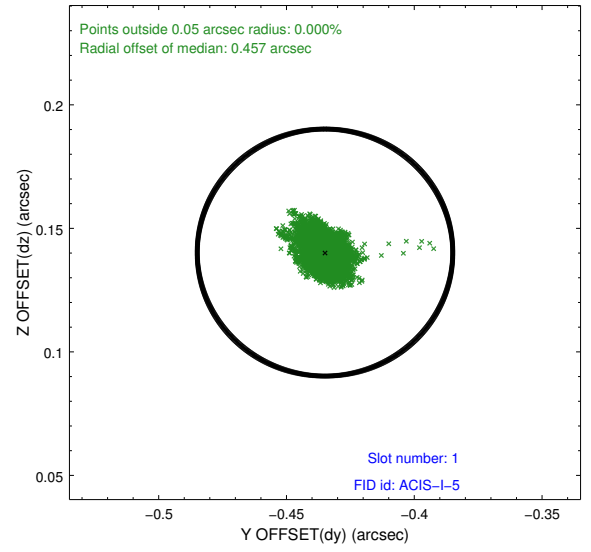
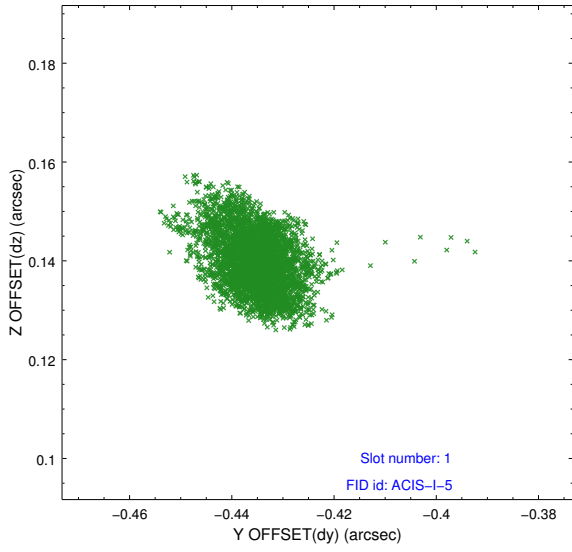


2.5 FID Slots

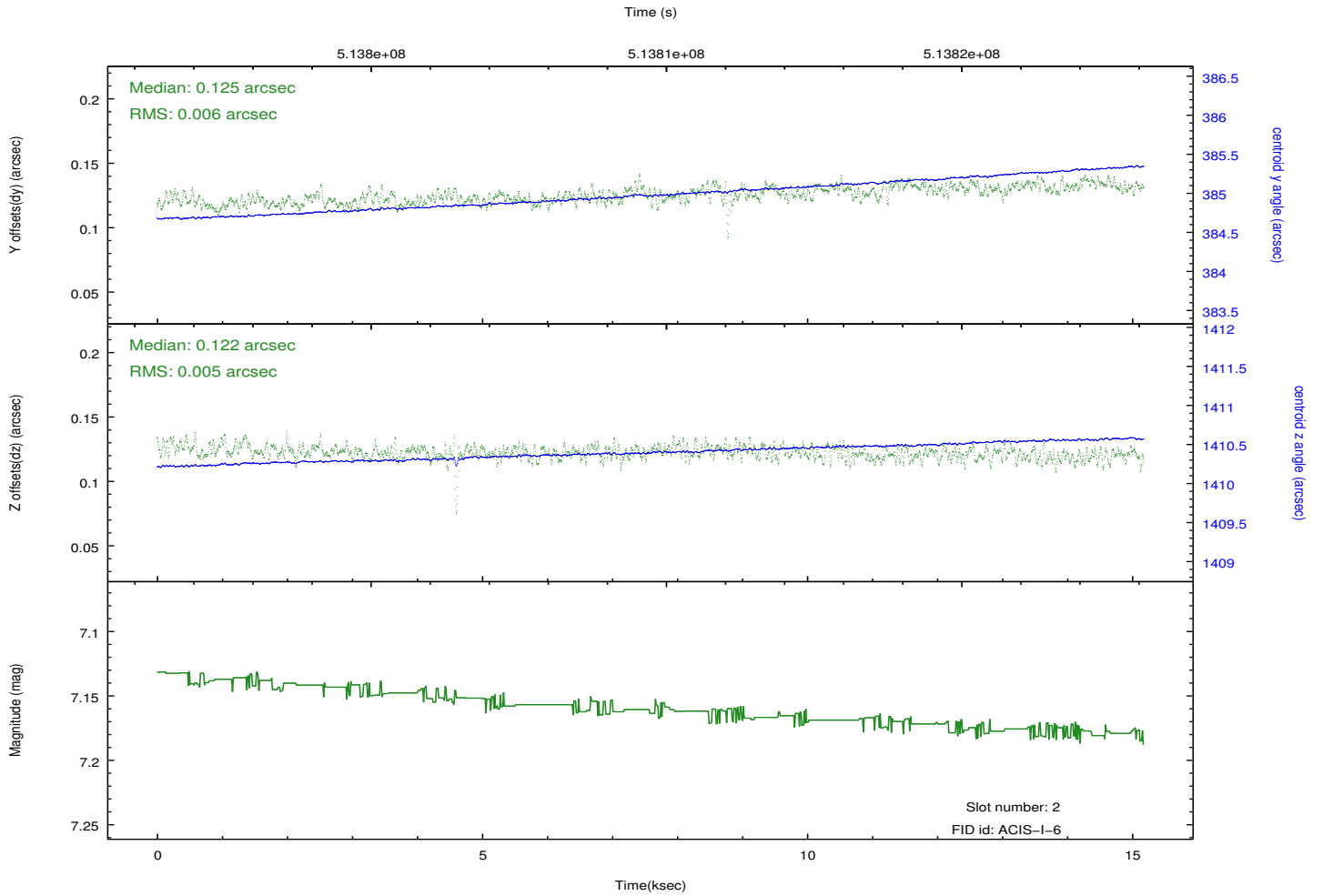
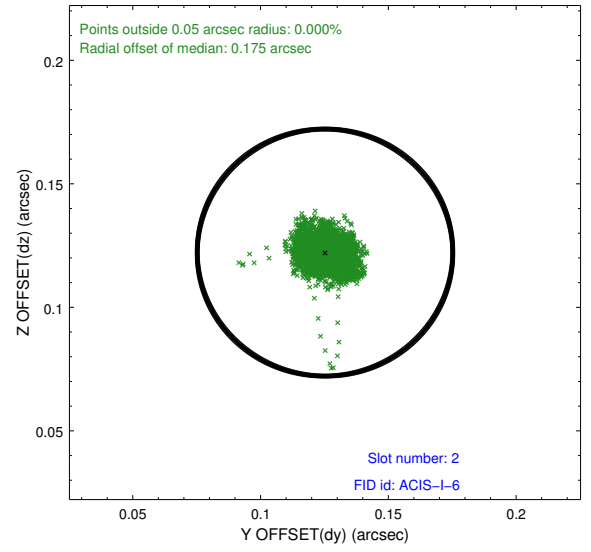
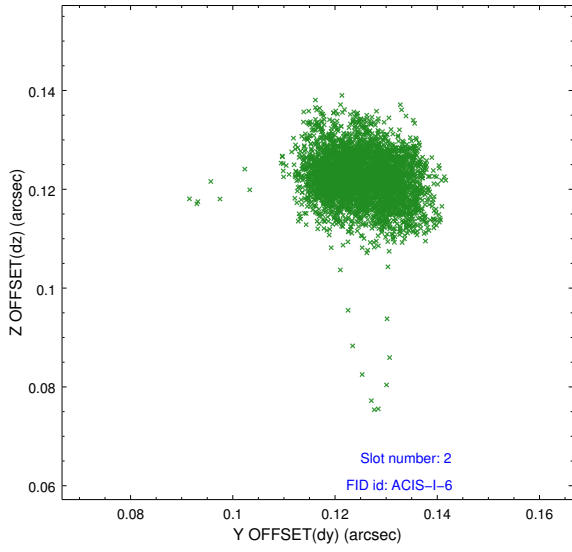
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.774390869021

A.2 Comments

Window preference met.

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.