

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7899 - L2 Version 2
Chandra X-Ray Center

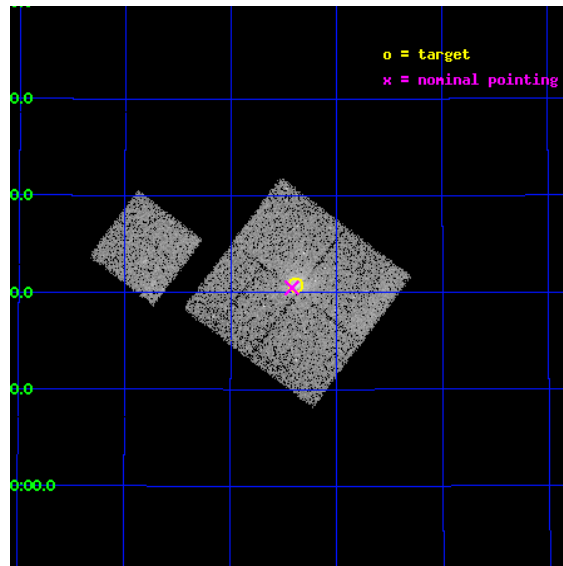
L2 Processing Date : May 1 2012

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1 Front

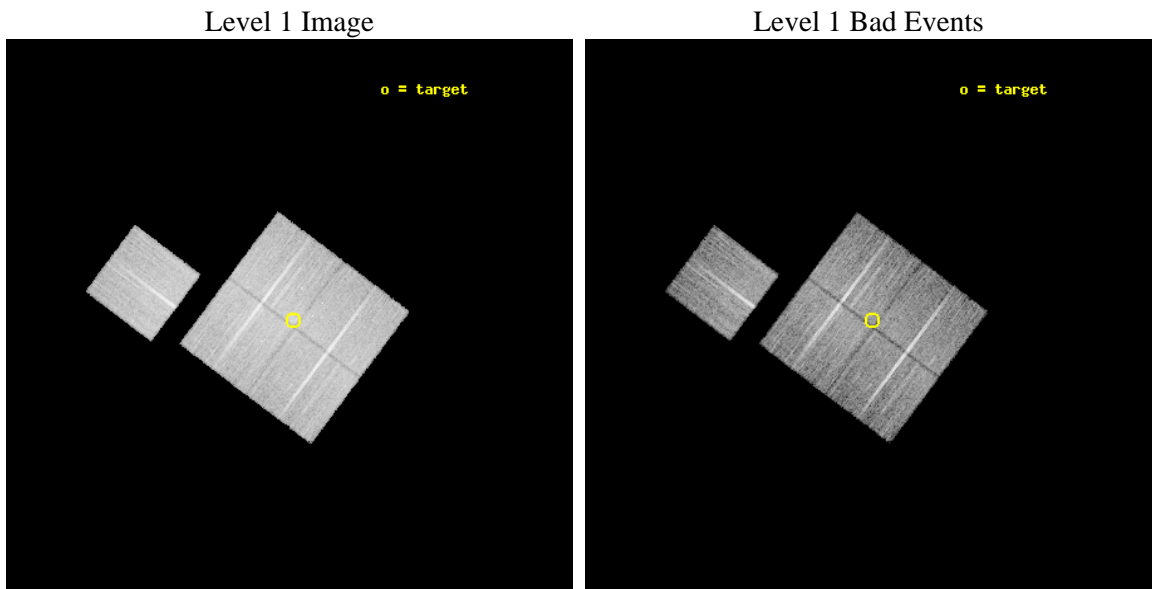
seq_num	800617	Sequence number
obs_id	7899	Observation id
title	An X-ray/lensing calibration of cluster mass estimates	Proposal ti
observer	Dr. Stephen Murray	Principal investigator
object	Z7215	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	225.3466	Observer's specified target RA [deg]
dec_targ	42.3464	Observer's specified target Dec [deg]
ra_nom	225.35545632582	Nominal RA [deg]
dec_nom	42.341677908162	Nominal Dec [deg]
roll_nom	306.99601769372	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13198.786857784	Sum of GTIs [s]
livetime	13026.334990681	Livetime [s]
ontime0	13201.804668248	Sum of GTIs [s]
ontime1	13204.986658633	Sum of GTIs [s]
ontime2	13205.027678668	Sum of GTIs [s]
ontime3	13198.786857784	Sum of GTIs [s]
ontime6	13198.622707725	Sum of GTIs [s]
l2events	49397	Number of level 2 events



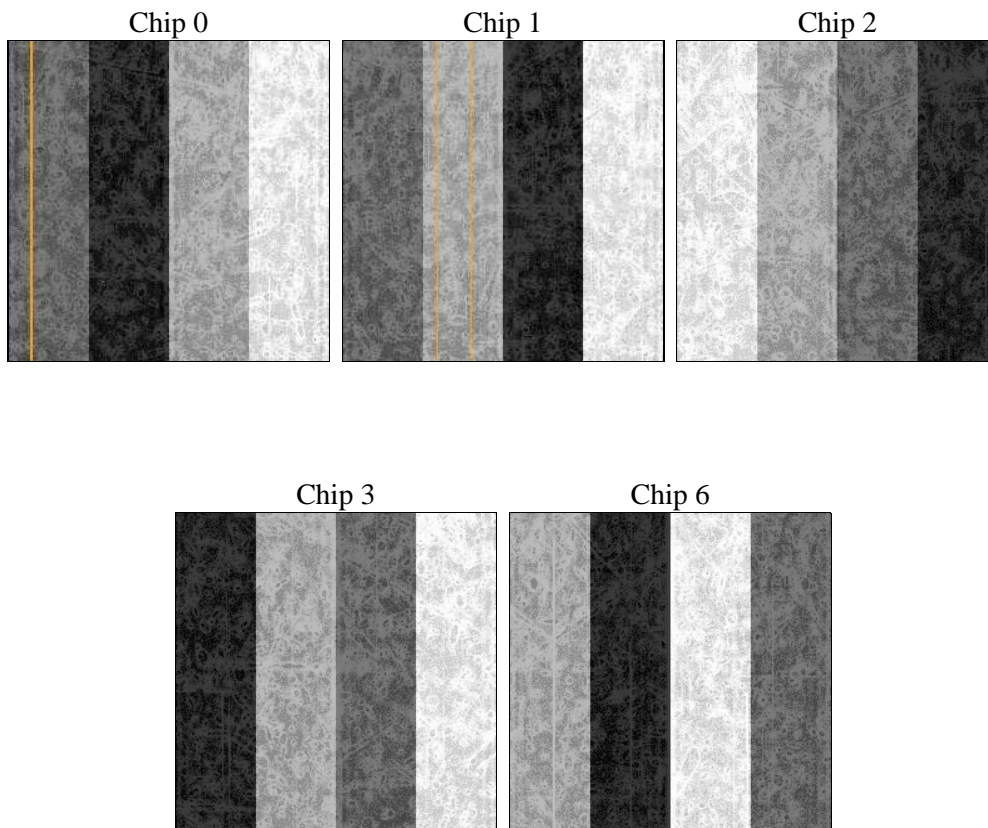
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	13100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	13198.786857784	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	13201.804668248	Sum of GTIs [s]
date	2012-05-01T21:56:47	Date and time of file creation	ontime1	13204.986658633	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	13205.027678668	Sum of GTIs [s]
			ontime3	13198.786857784	Sum of GTIs [s]
			ontime6	13198.622707725	Sum of GTIs [s]
			l1events	526155	Number of level 1 events

2.1.4 Events

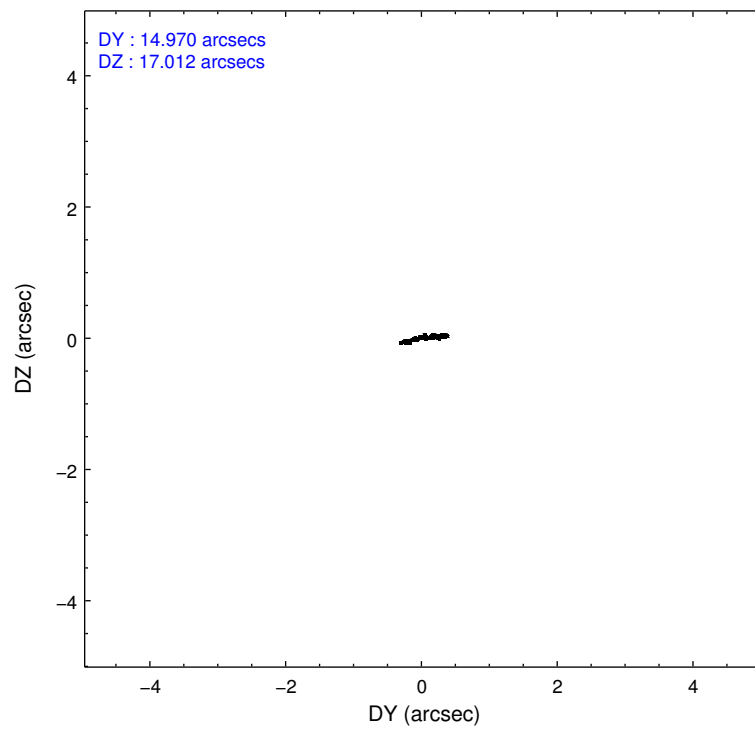
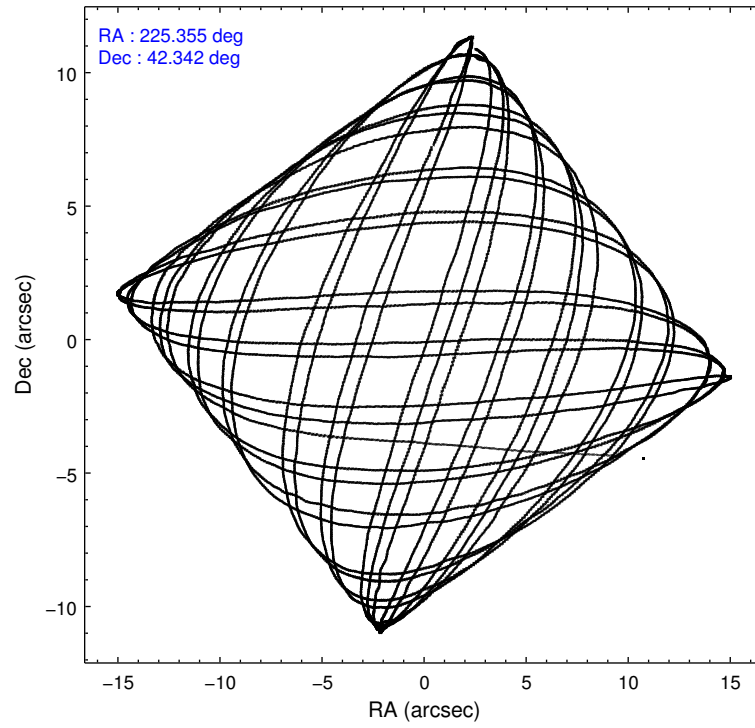
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	98135	99392	112523	108678	107427
rejected events	87174	86127	101299	96150	96396
rejected %	88%	86%	90%	88%	89%

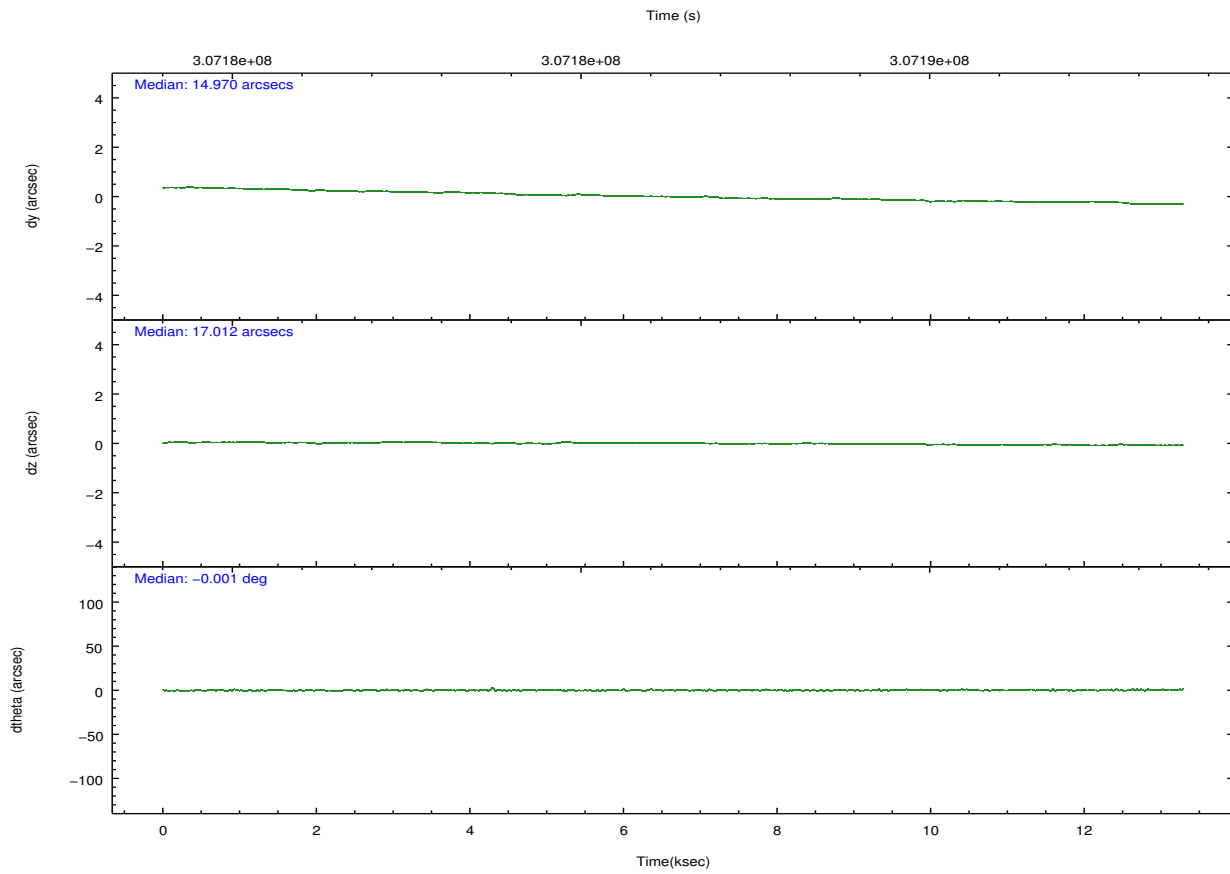
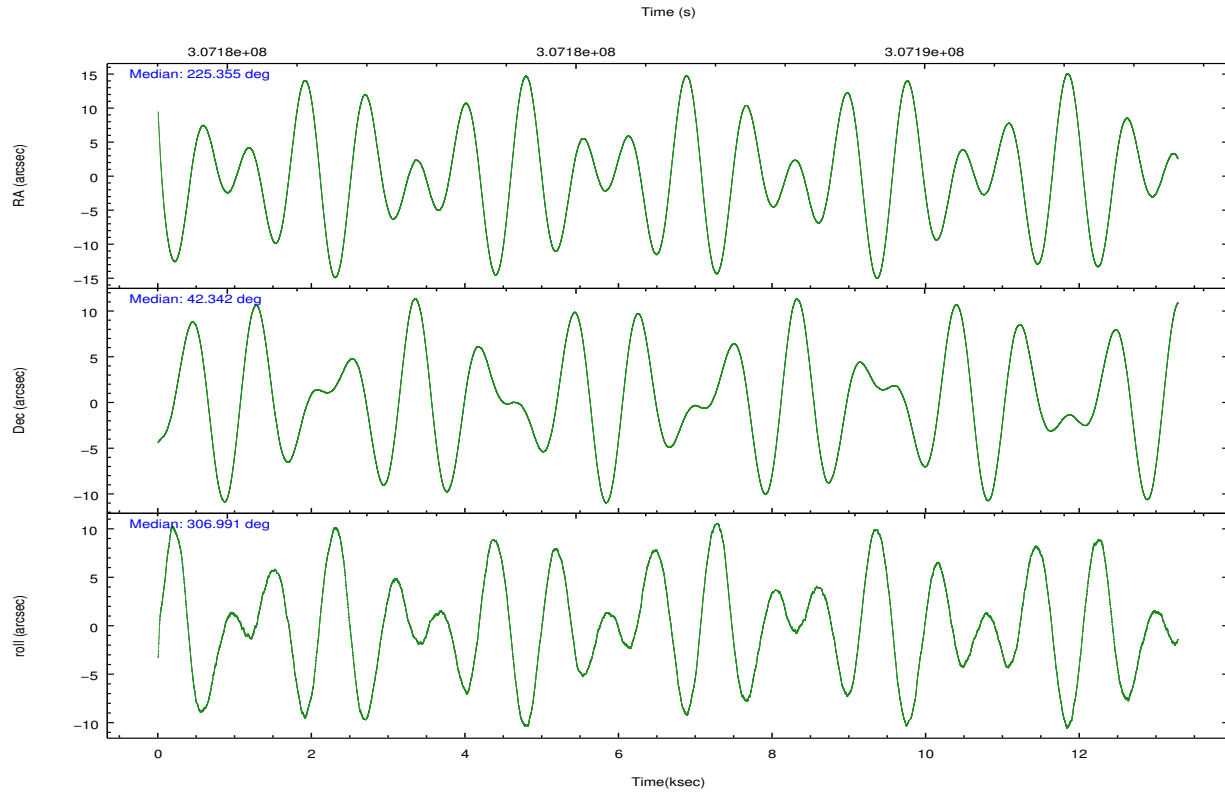
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3898	5399	4385	5417	3847
	3%	5%	3%	4%	3%
grade 1 events	52	58	83	70	54
	0%	0%	0%	0%	0%
grade 2 events	2642	2845	2623	2535	2402
	2%	2%	2%	2%	2%
grade 3 events	1206	1346	1115	1194	1226
	1%	1%	0%	1%	1%
grade 4 events	1159	1334	1164	1242	1215
	1%	1%	1%	1%	1%
grade 5 events	3630	4073	3538	4315	4119
	3%	4%	3%	3%	3%
grade 6 events	2067	2348	1939	2147	2346
	2%	2%	1%	1%	2%
grade 7 events	83481	81989	97676	91758	92218
	85%	82%	86%	84%	85%

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	225.321172	225.3554563258172	Subarray requested	NONE	NONE
[deg] Pointing Dec	42.352315	42.34167790816174	Alternating exposures requested	N	N
[deg] Pointing Roll	306.810430	306.9960176937182	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	307179867.184000	307178905.69954			
Observation start date	2007-09-26T07:43:22	2007-09-26T07:28:25			
[s] Observation end time (MET)	307192967.184000	307194617.9253			
Observation end date	2007-09-26T11:21:42	2007-09-26T11:50:17			
Read mode	TIMED	TIMED			

2.3 Aspect





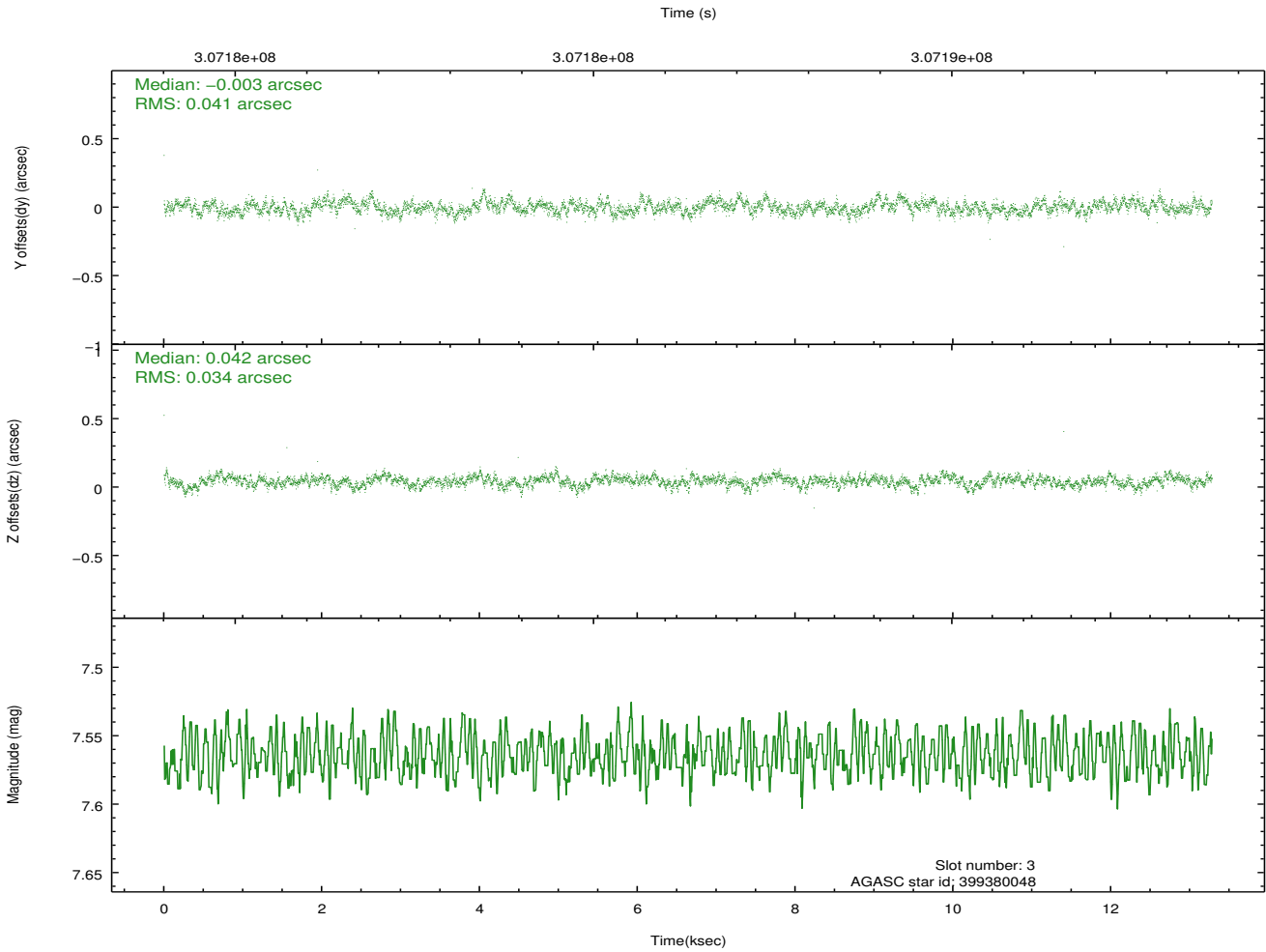
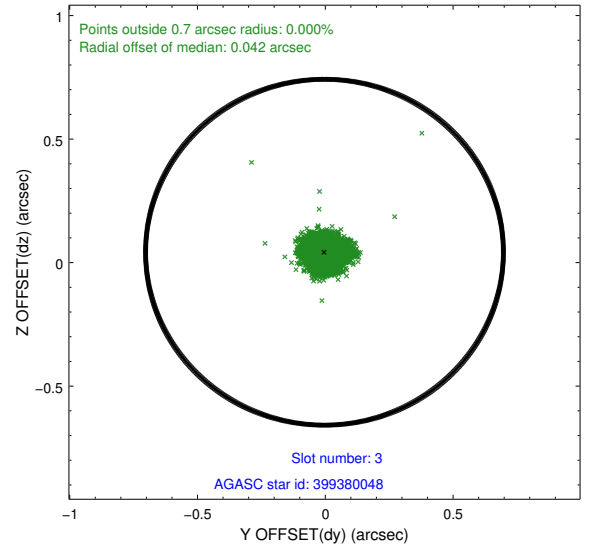
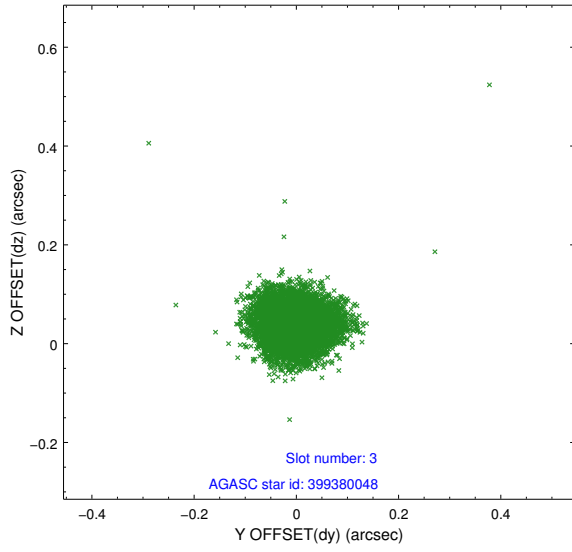
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	3227	0.057	-0.014	0.007	0.020	0.000000	0.000000	924.51	-840.69
1	FID	ACIS-I-5	7.22	3218	-0.207	0.064	0.007	0.014	0.000000	0.000000	-1823.61	1056.76
2	FID	ACIS-I-6	7.24	3227	0.059	0.021	0.008	0.014	0.000000	0.000000	389.72	1701.58
3	GUIDE	399380048	7.56	6452	-0.003	0.042	0.056	0.089	225.526826	42.052346	1193.88	-206.15
4	GUIDE	399382120	9.87	6446	-0.051	-0.038	0.130	0.209	226.129846	42.328441	1350.37	1678.02
5	GUIDE	399384224	9.05	6441	0.028	-0.014	0.103	0.163	224.849284	41.833578	735.07	-2129.80
6	GUIDE	399776352	9.27	6382	0.013	0.090	0.102	0.174	224.778399	42.780868	-2097.53	-221.18
7	GUIDE	399778760	8.73	6456	0.002	-0.081	0.080	0.132	225.381533	42.639951	-733.45	748.56

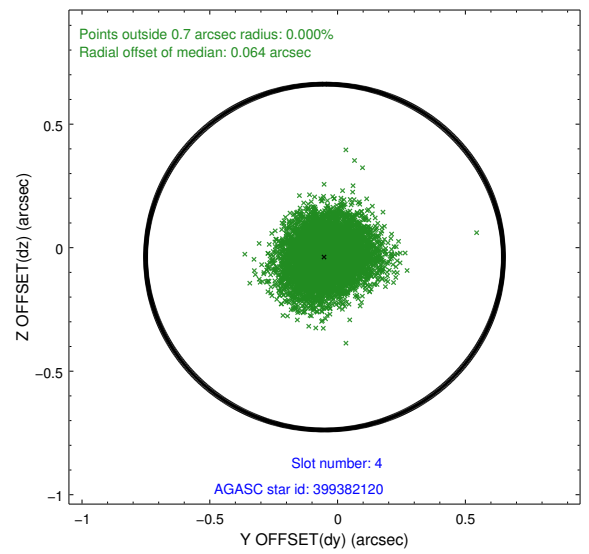
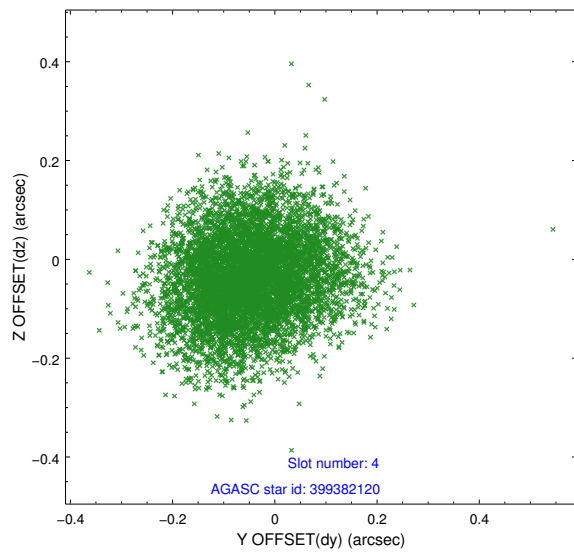
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2.4 Star Slots

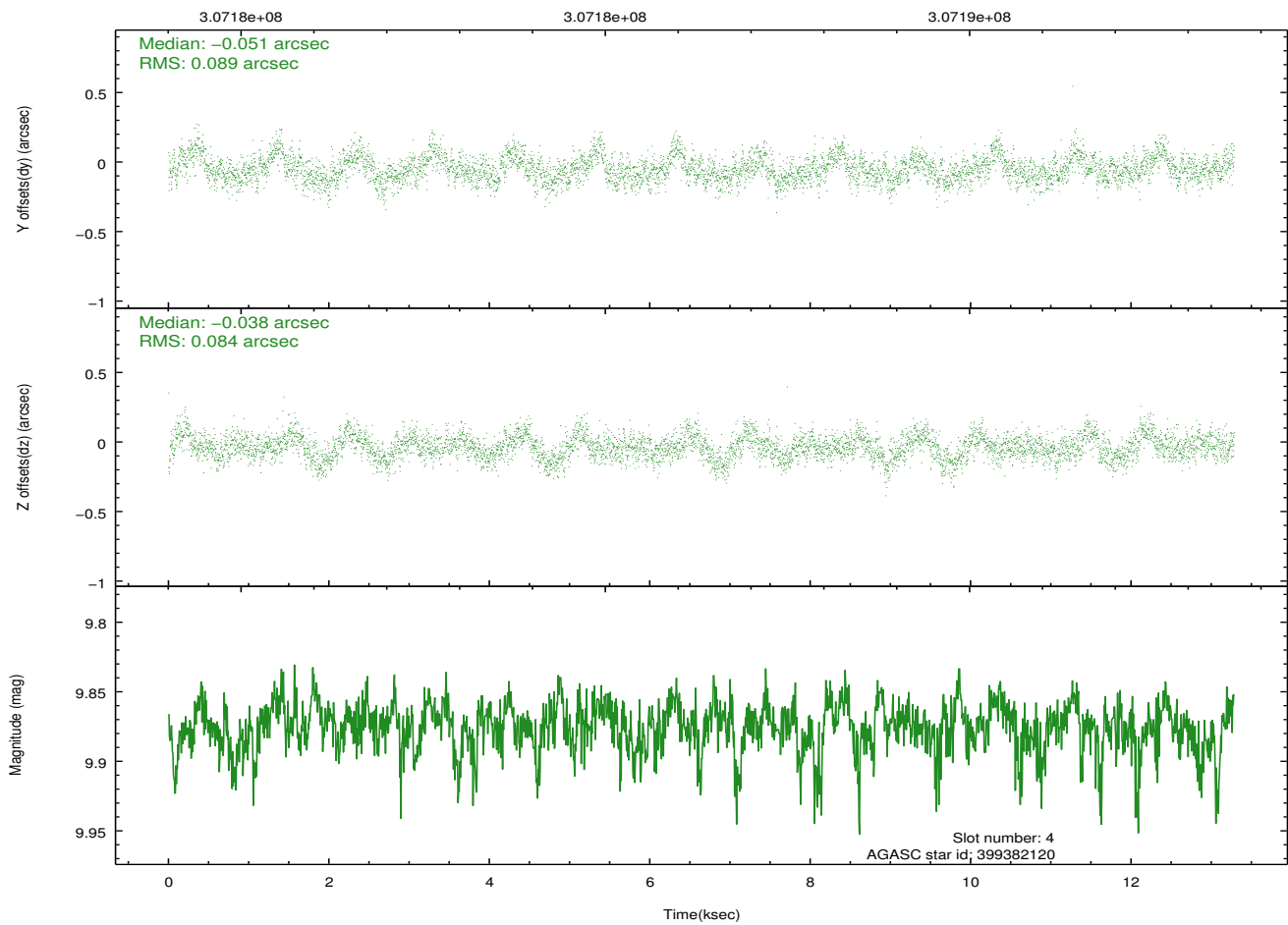
2.4.1 Slot 3



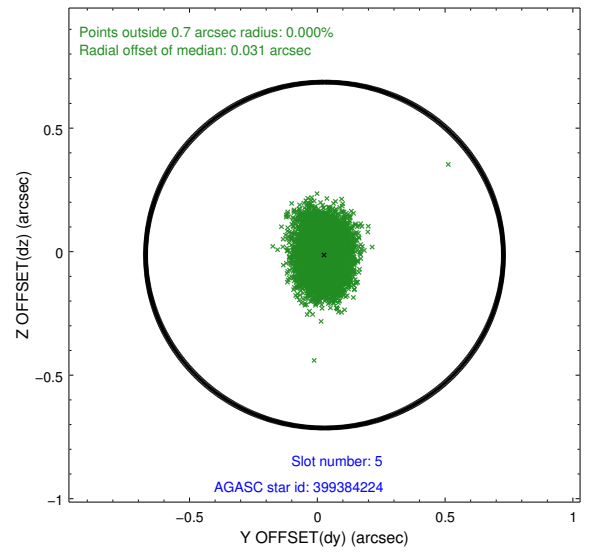
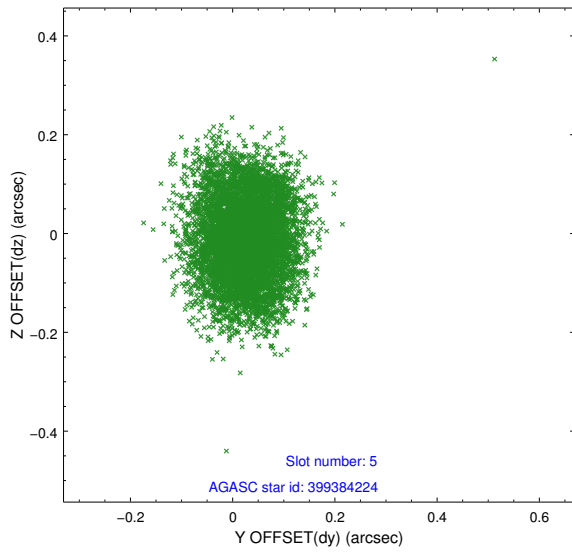
2.4.2 Slot 4



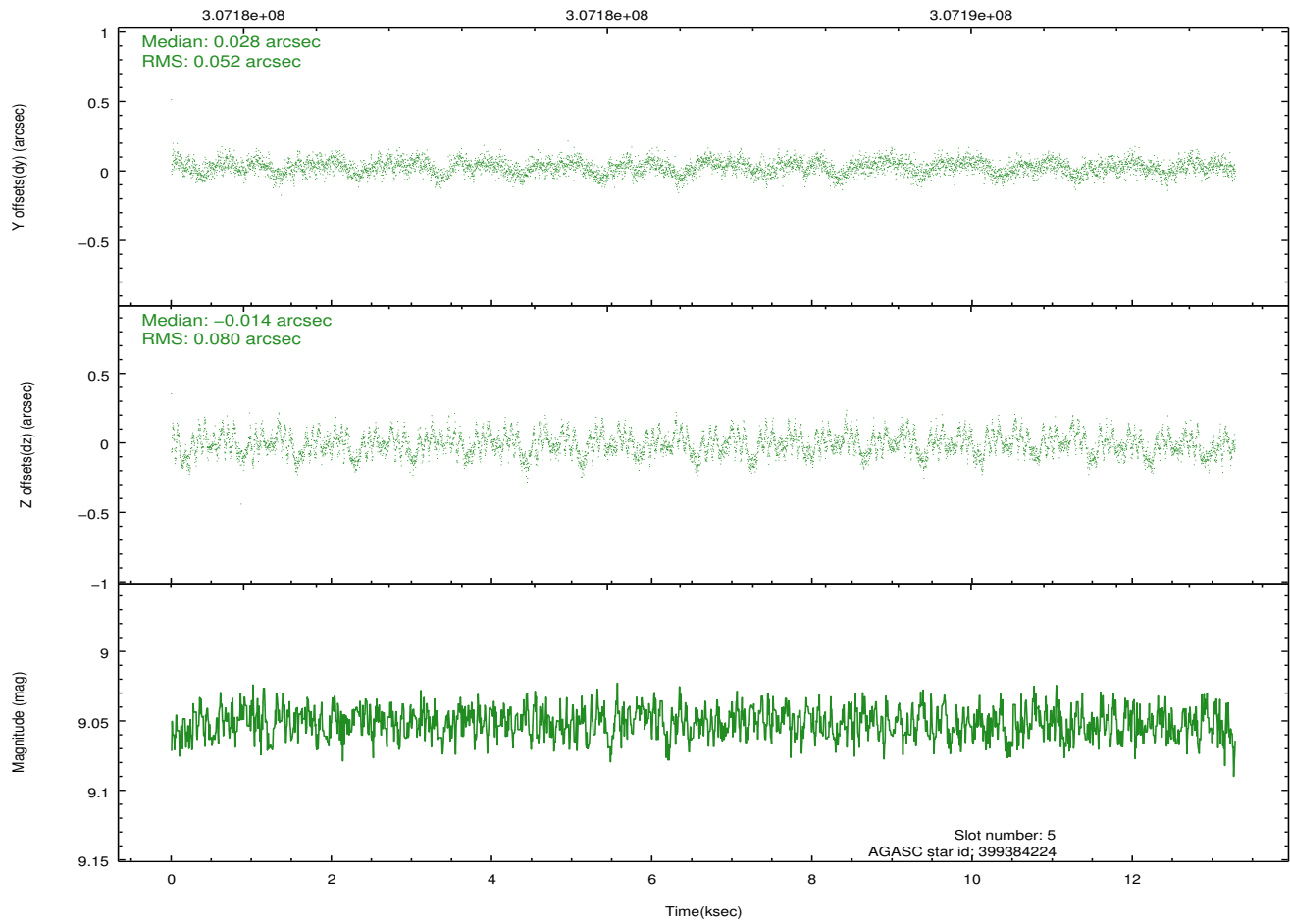
Time (s)



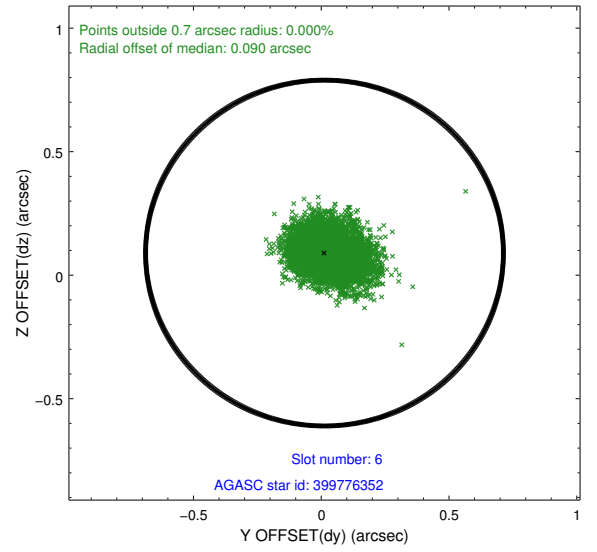
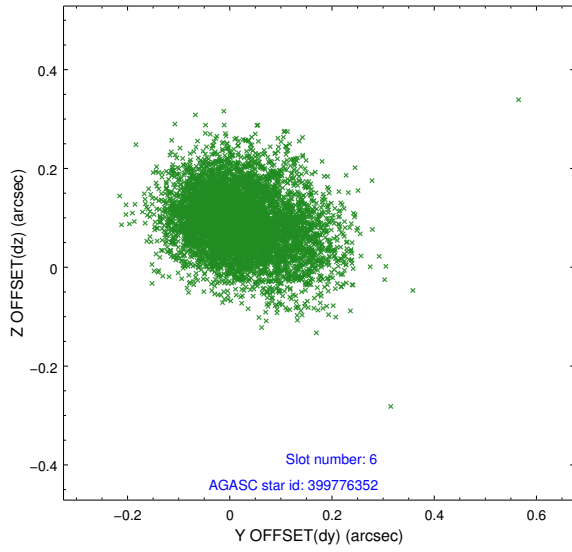
2.4.3 Slot 5



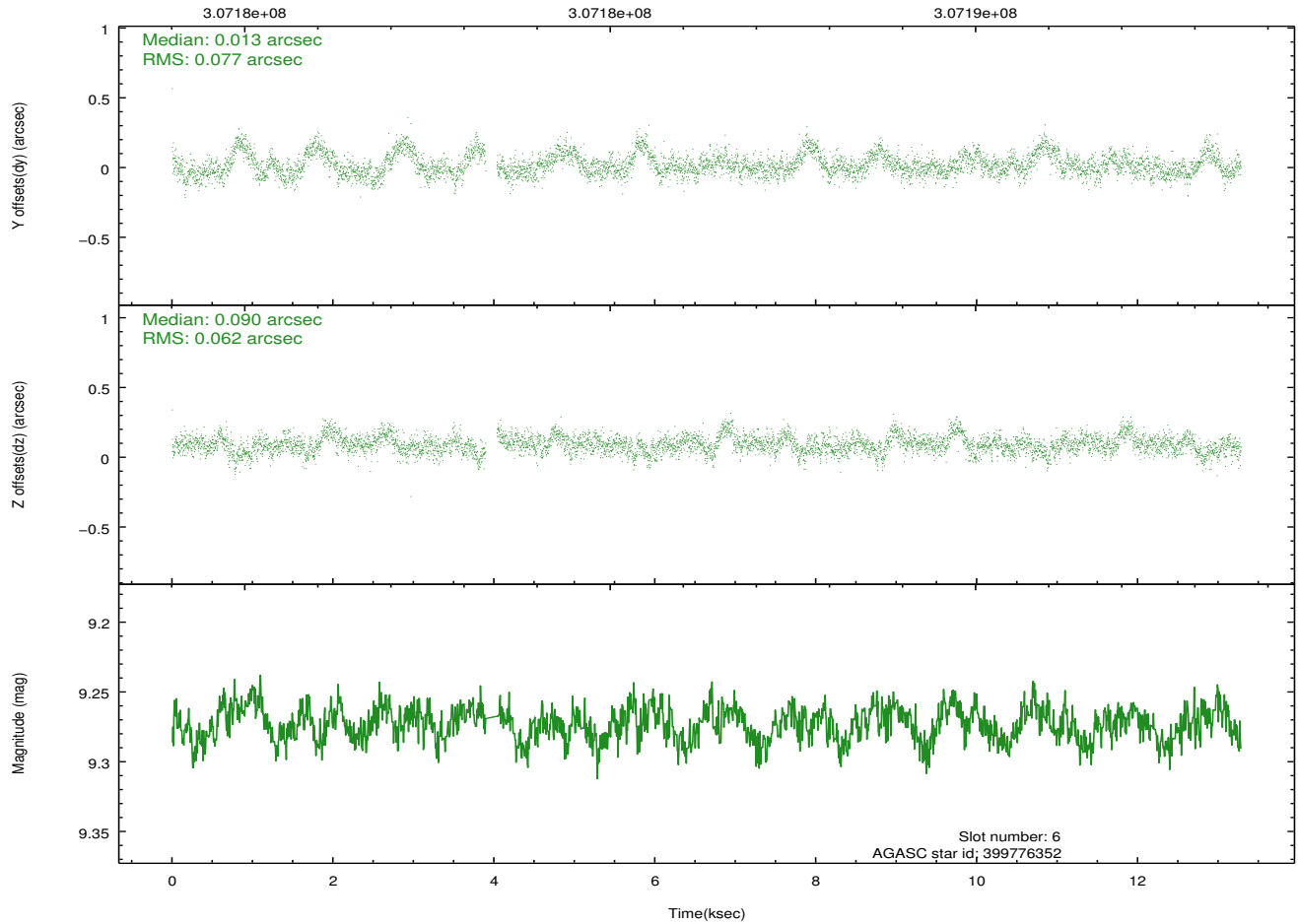
Time (s)



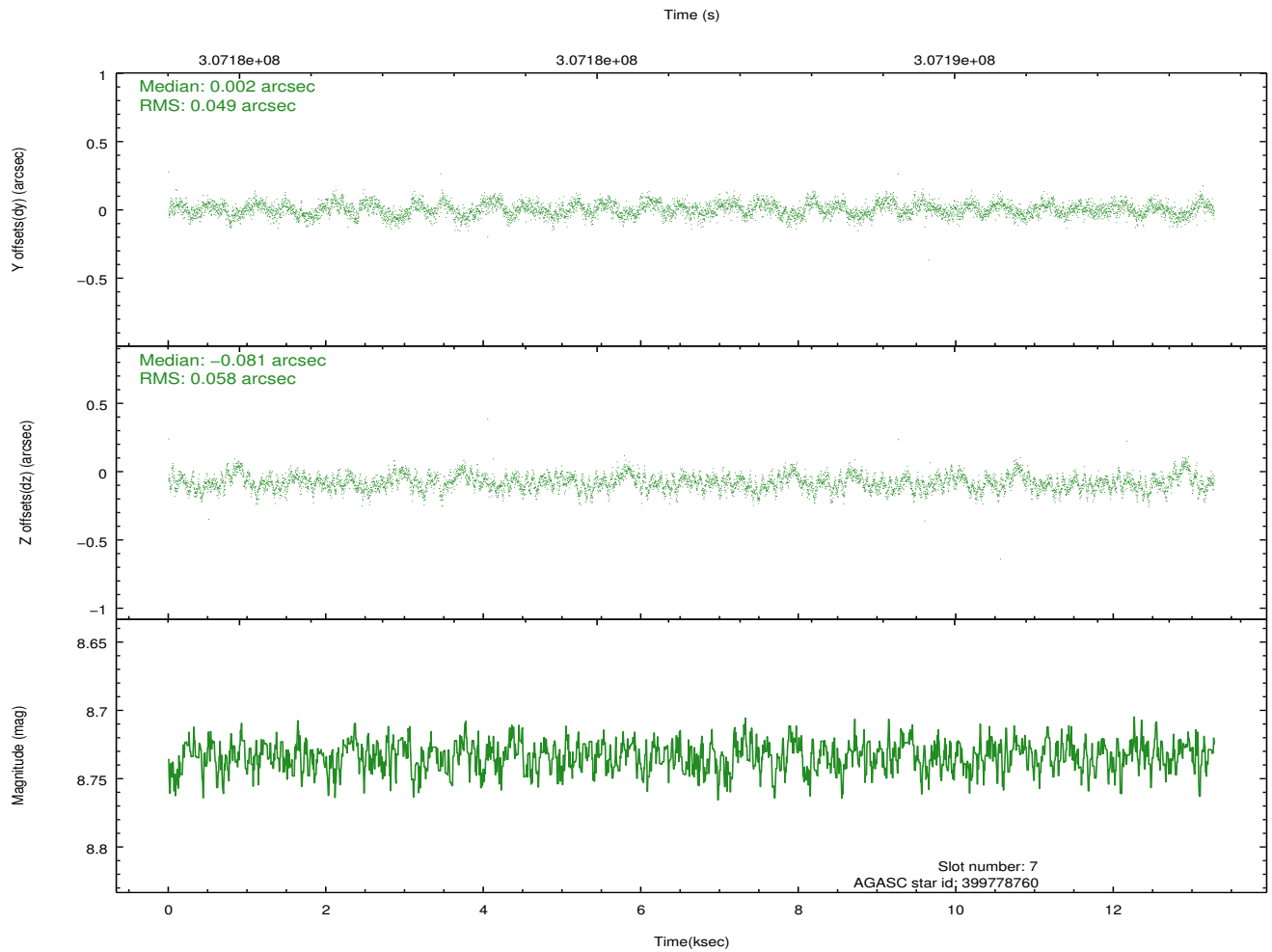
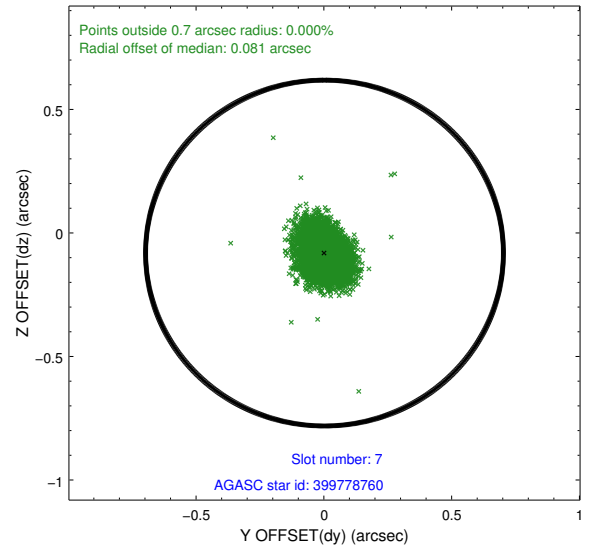
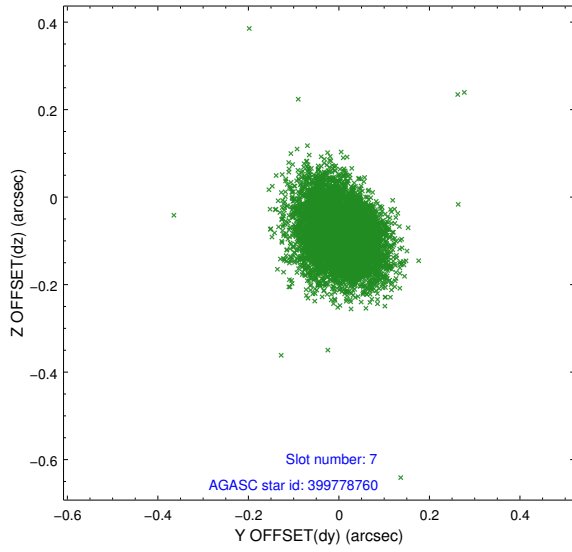
2.4.4 Slot 6



Time (s)

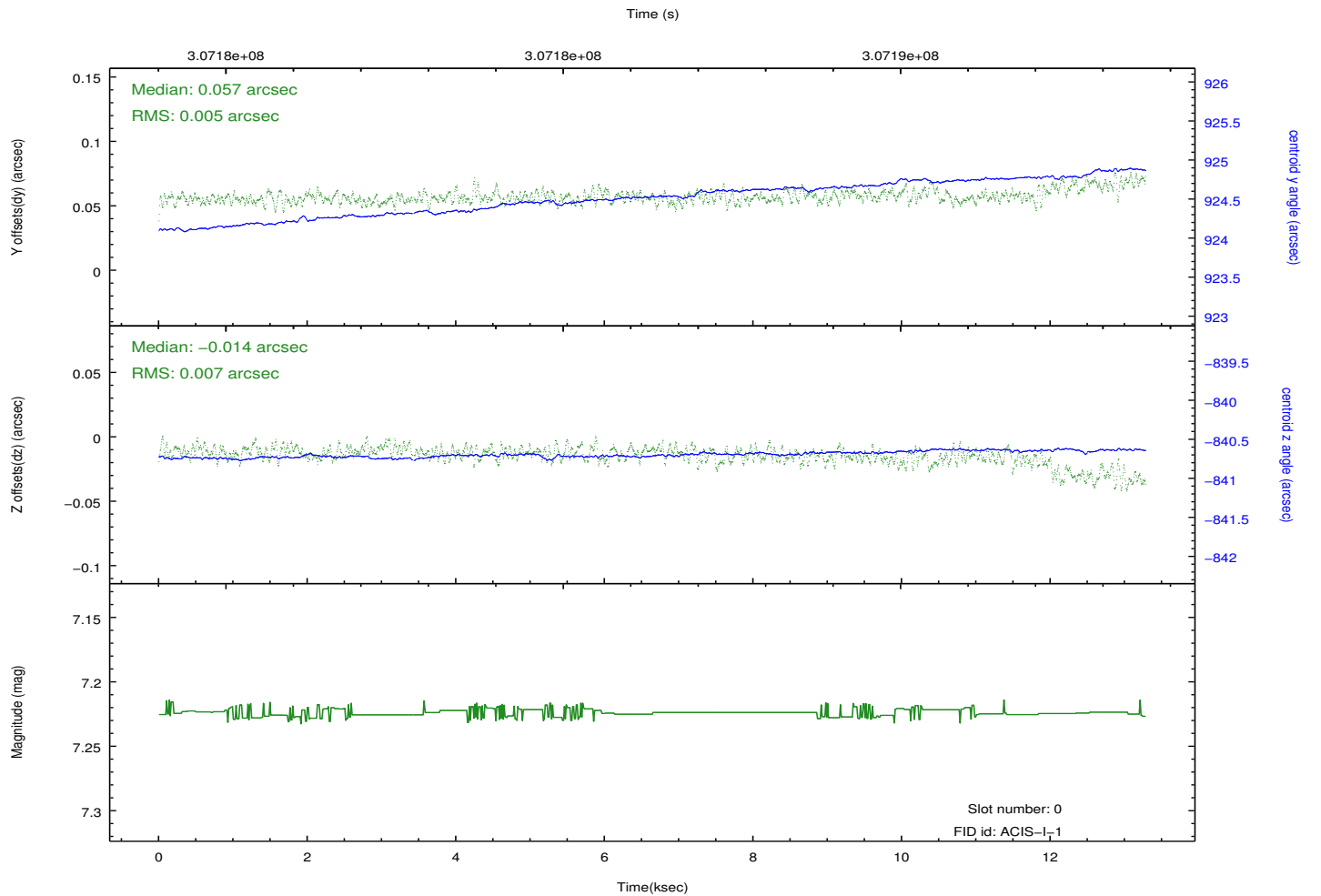
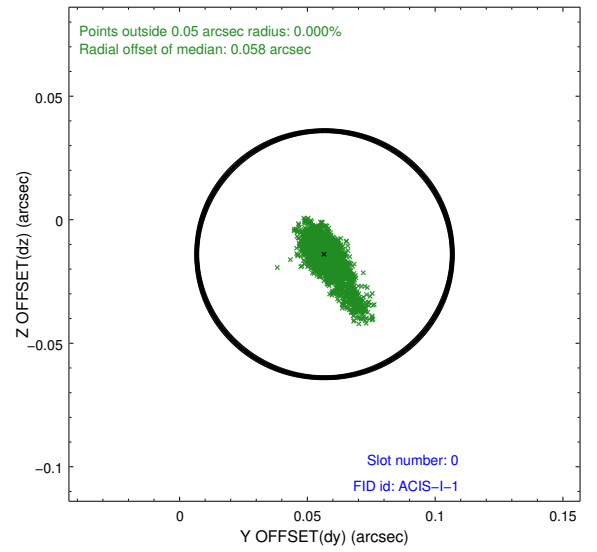
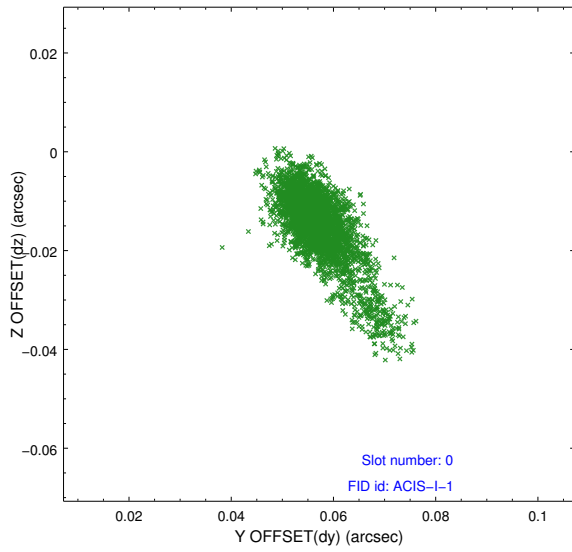


2.4.5 Slot 7

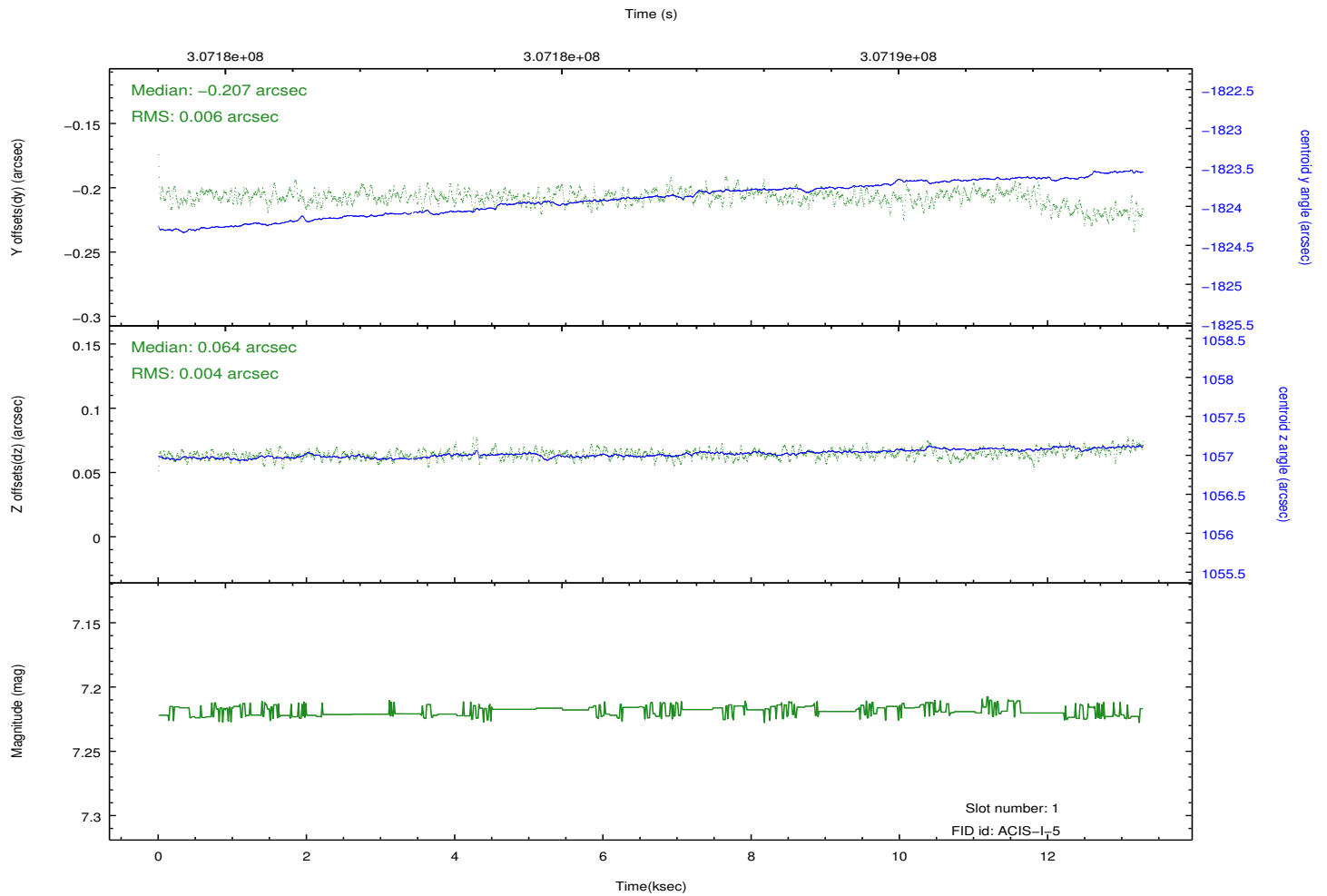
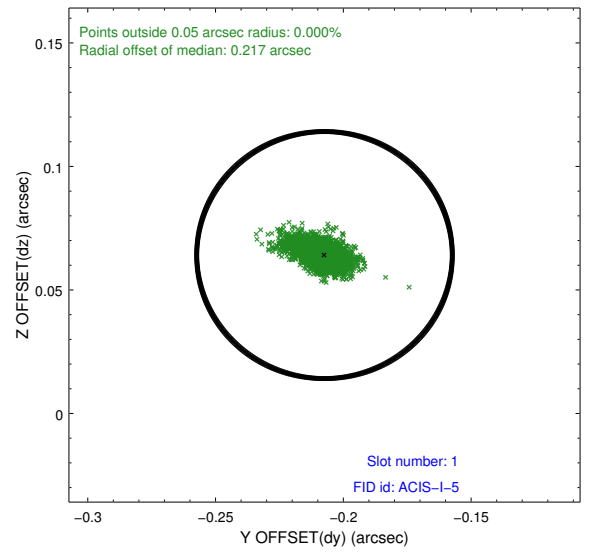
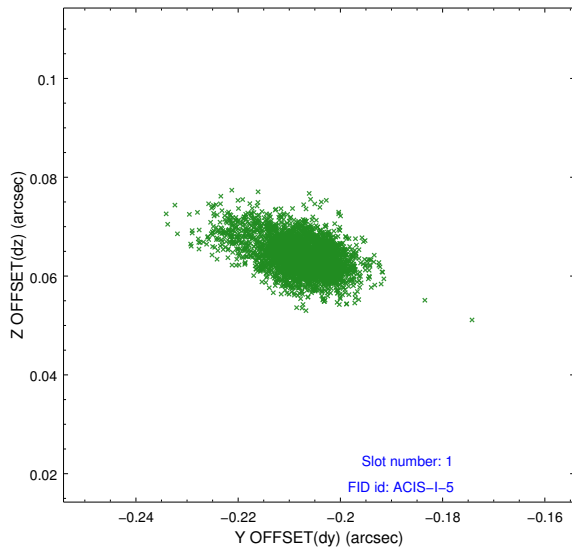


2.5 FID Slots

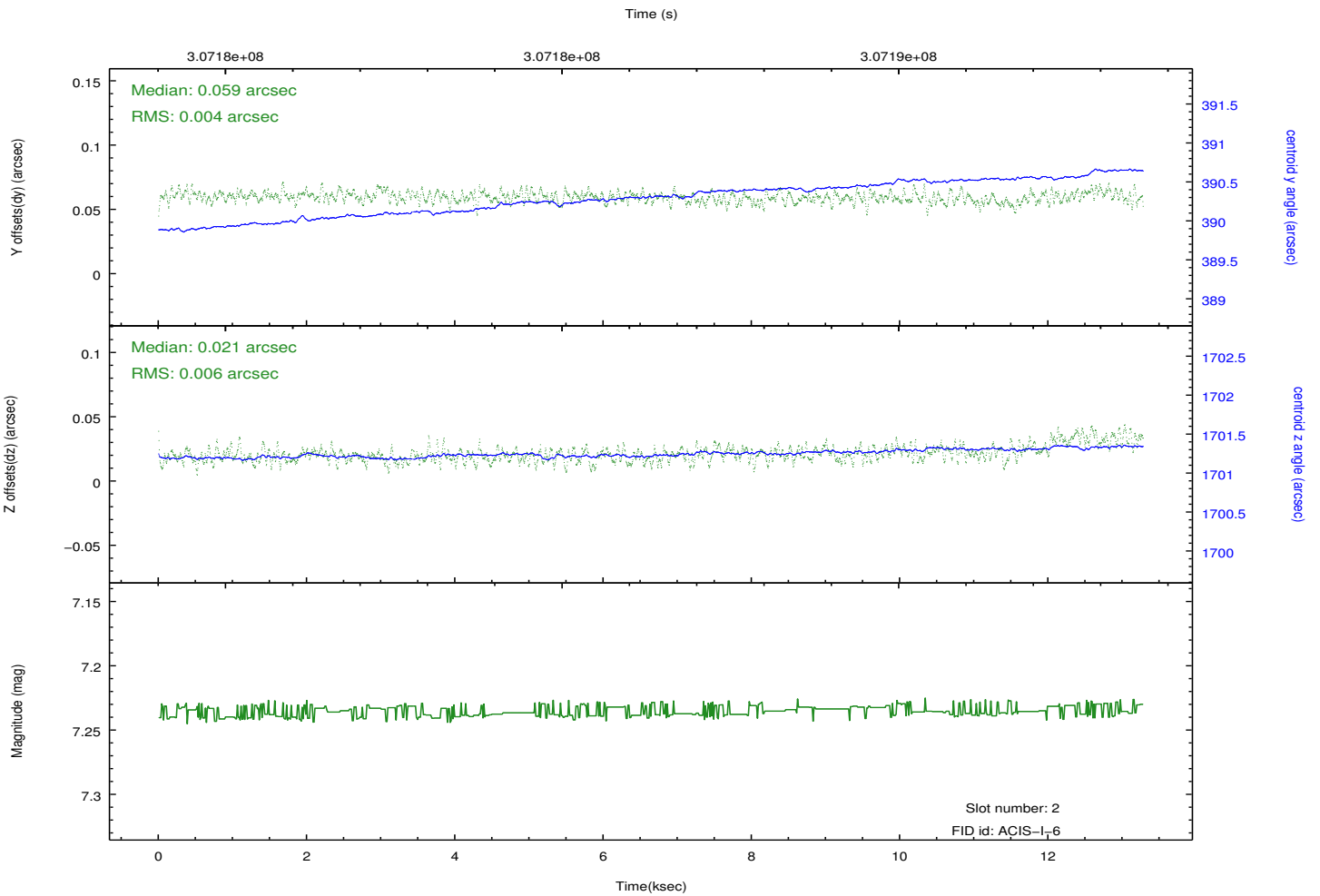
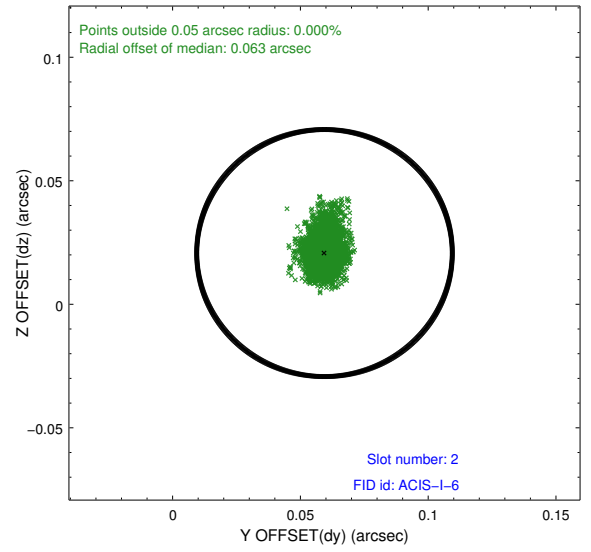
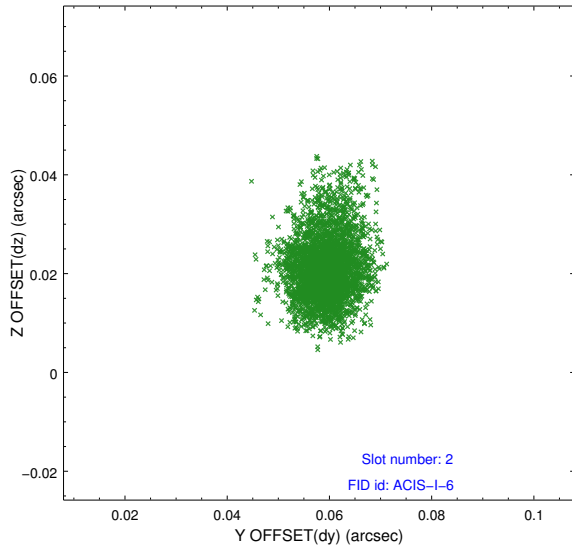
2.5.1 Slot 0



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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.1996772

A.2 Comments