

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 4530 - L2 Version 3  
Chandra X-Ray Center

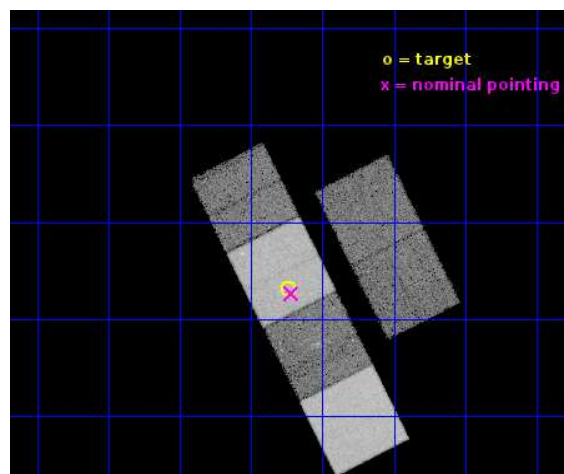
L2 Processing Date : Dec 6 2012

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# 1 Front

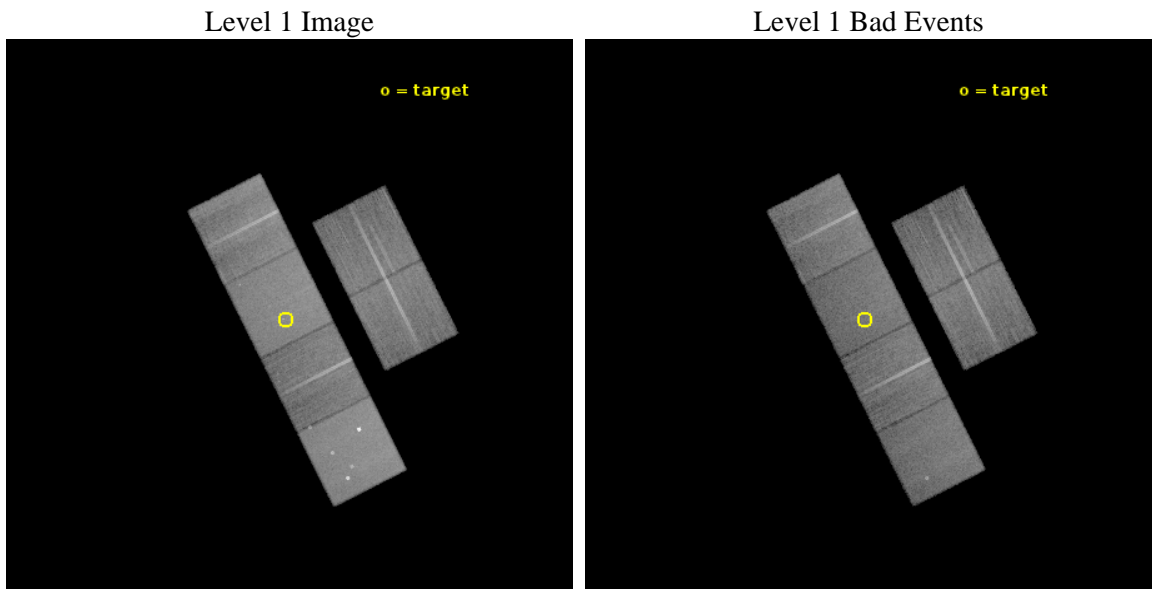
seq_num	300124	Sequence number
obs_id	4530	Observation id
title	A Uniform Study of Globular Cluster X-ray Sources: The Keys to Cluster Dynamical Evolution	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	NGC 6218	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.810417	Observer's specified target RA [deg]
dec_targ	-1.947778	Observer's specified target Dec [deg]
ra_nom	251.80462440512	Nominal RA [deg]
dec_nom	-1.9555068601746	Nominal Dec [deg]
roll_nom	243.26529984622	Nominal Roll [deg]
revision	3	Processing version of data
ontime	26959.172253758	Sum of GTIs [s]
livetime	26617.798981816	Livetime [s]
ontime2	26959.213293761	Sum of GTIs [s]
ontime3	26955.808143467	Sum of GTIs [s]
ontime5	26959.131213754	Sum of GTIs [s]
ontime6	26959.090173751	Sum of GTIs [s]
ontime7	26959.172253758	Sum of GTIs [s]
ontime8	26959.008093774	Sum of GTIs [s]
l2events	315602	Number of level 2 events



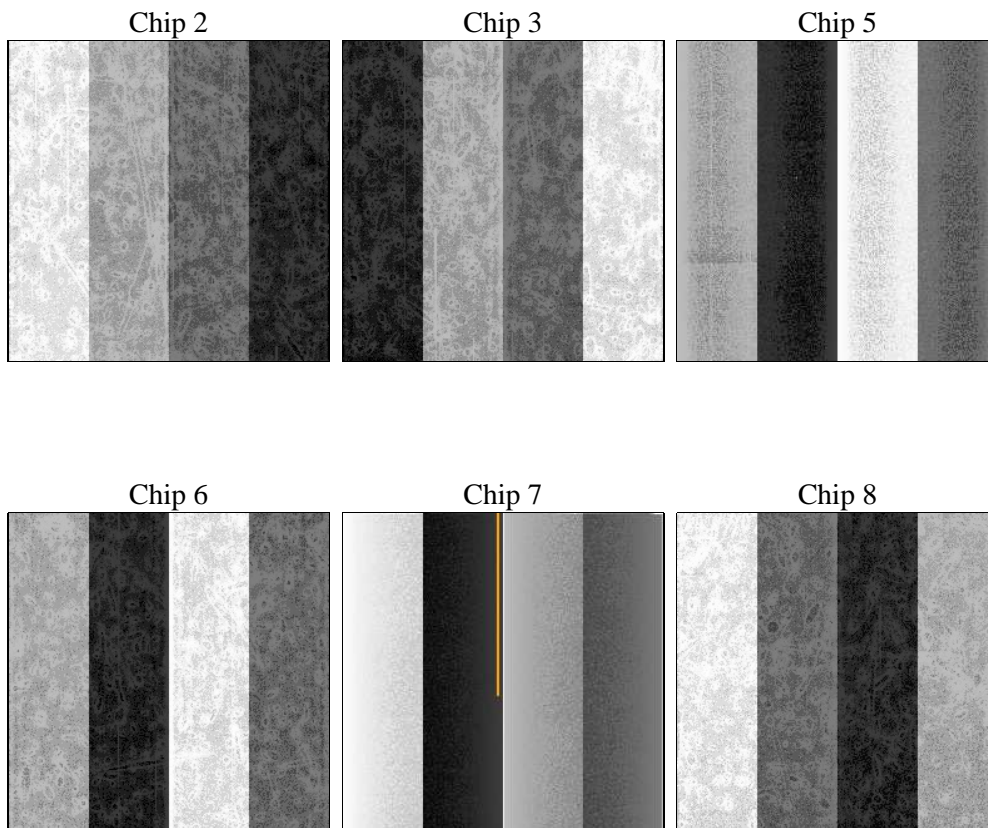
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	26959.172253758	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime2	26959.213293761	Sum of GTIs [s]
date	2012-12-06T09:51:23	Date and time of file creation	ontime3	26955.808143467	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	26959.131213754	Sum of GTIs [s]
			ontime6	26959.090173751	Sum of GTIs [s]
			ontime7	26959.172253758	Sum of GTIs [s]
			ontime8	26959.008093774	Sum of GTIs [s]
			l1events	1385073	Number of level 1 events

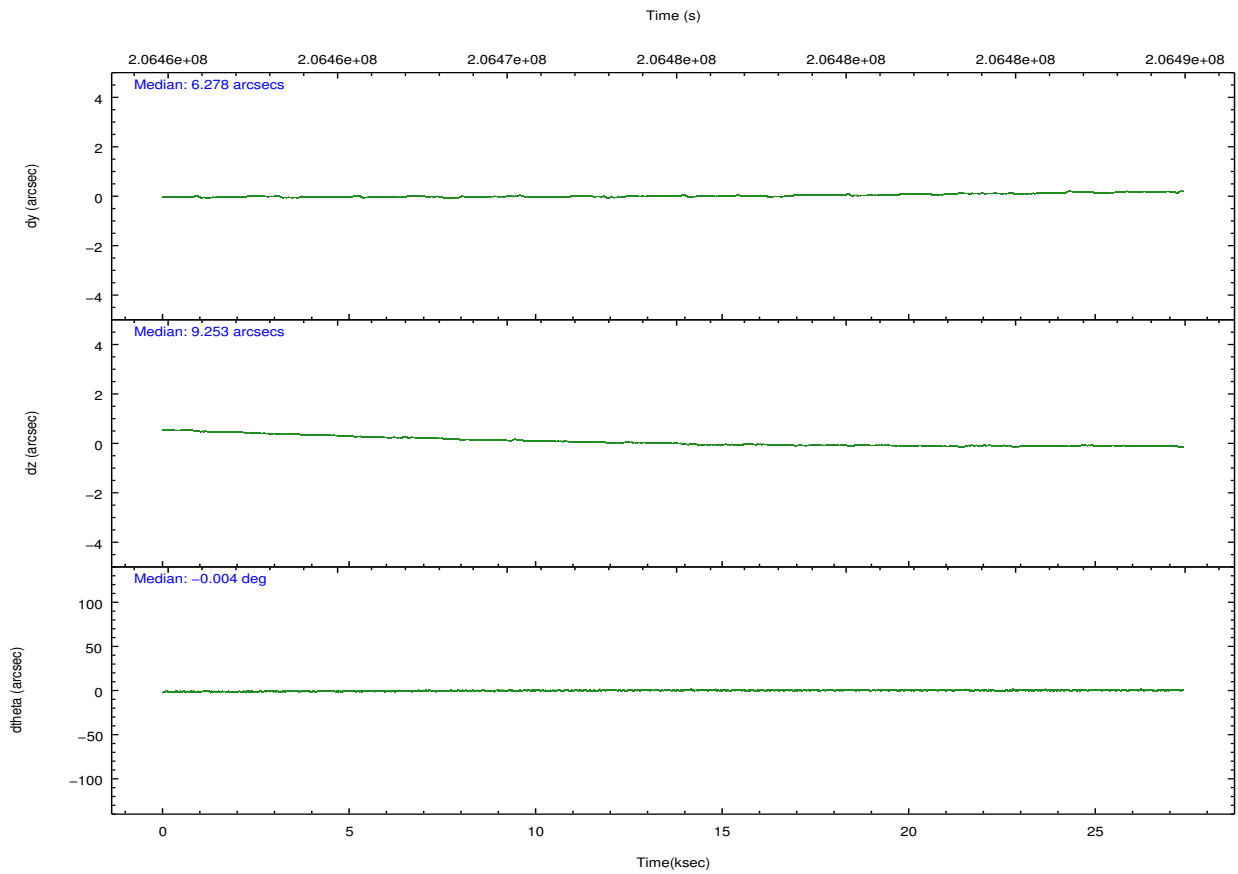
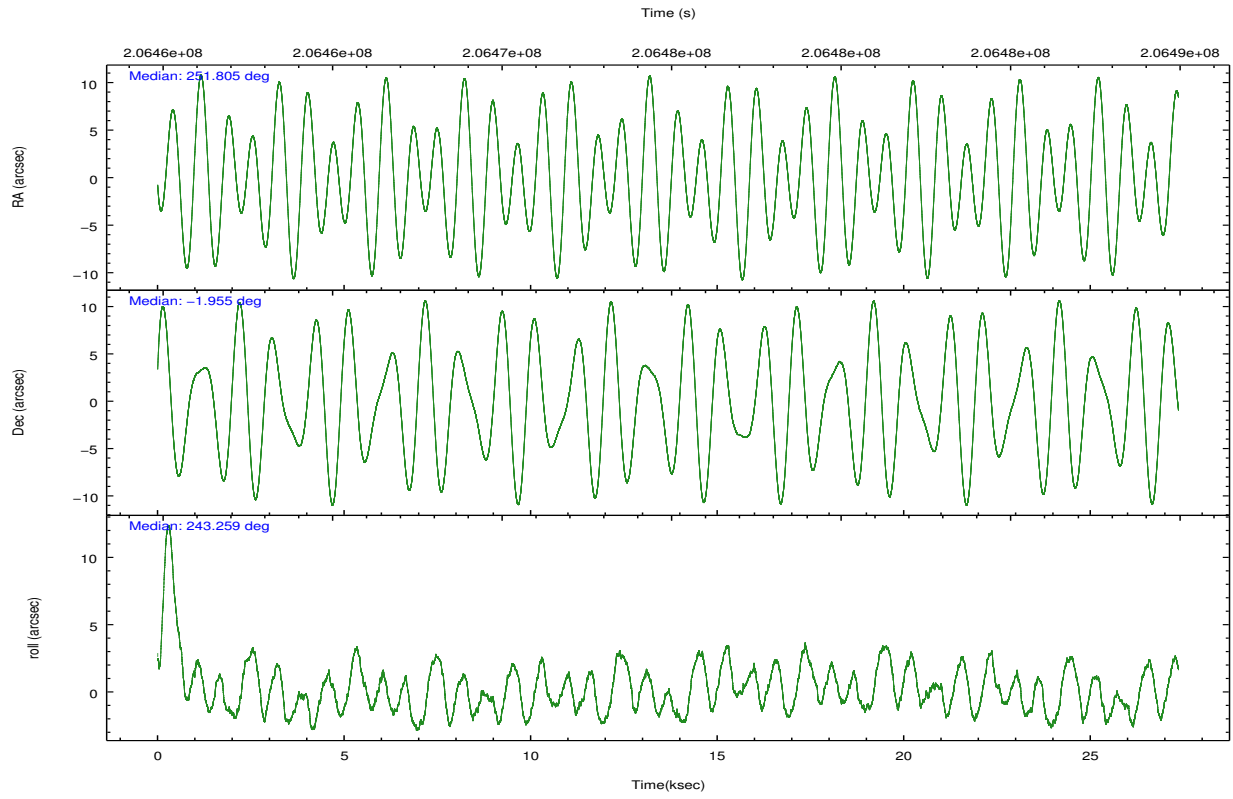
### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	199979	188758	295864	193871	263801	242800	grade 0 events	10379	10083	18732	11135	10469	16528
rejected events	176778	166187	157031	168653	153429	191277		5%	5%	6%	5%	3%	6%
rejected %	88%	88%	53%	86%	58%	78%	grade 1 events	110	130	439	84	254	165
								0%	0%	0%	0%	0%	0%
							grade 2 events	4660	4230	40938	4954	22035	11379
								2%	2%	13%	2%	8%	4%
							grade 3 events	2155	2211	5213	2318	9981	5229
								1%	1%	1%	1%	3%	2%
							grade 4 events	2094	2117	4884	2255	9804	5042
								1%	1%	1%	1%	3%	2%
							grade 5 events	7658	8564	21026	8993	24893	11443
								3%	4%	7%	4%	9%	4%
							grade 6 events	3917	3935	69100	4568	58105	13359
								1%	2%	23%	2%	22%	5%
							grade 7 events	169006	157488	135532	159564	128260	179655
								84%	83%	45%	82%	48%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	251.802701	251.804624405116	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.928359	-1.955506860174577	Alternating exposures requested	N	N
[deg] Pointing Roll	243.108602	243.2652998462234	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	206461582.184000	206460532.96503			
Observation start date	2004-07-17T14:25:18	2004-07-17T14:08:52			
[s] Observation end time (MET)	206488582.184000	206490236.44135			
Observation end date	2004-07-17T21:55:18	2004-07-17T22:23:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect

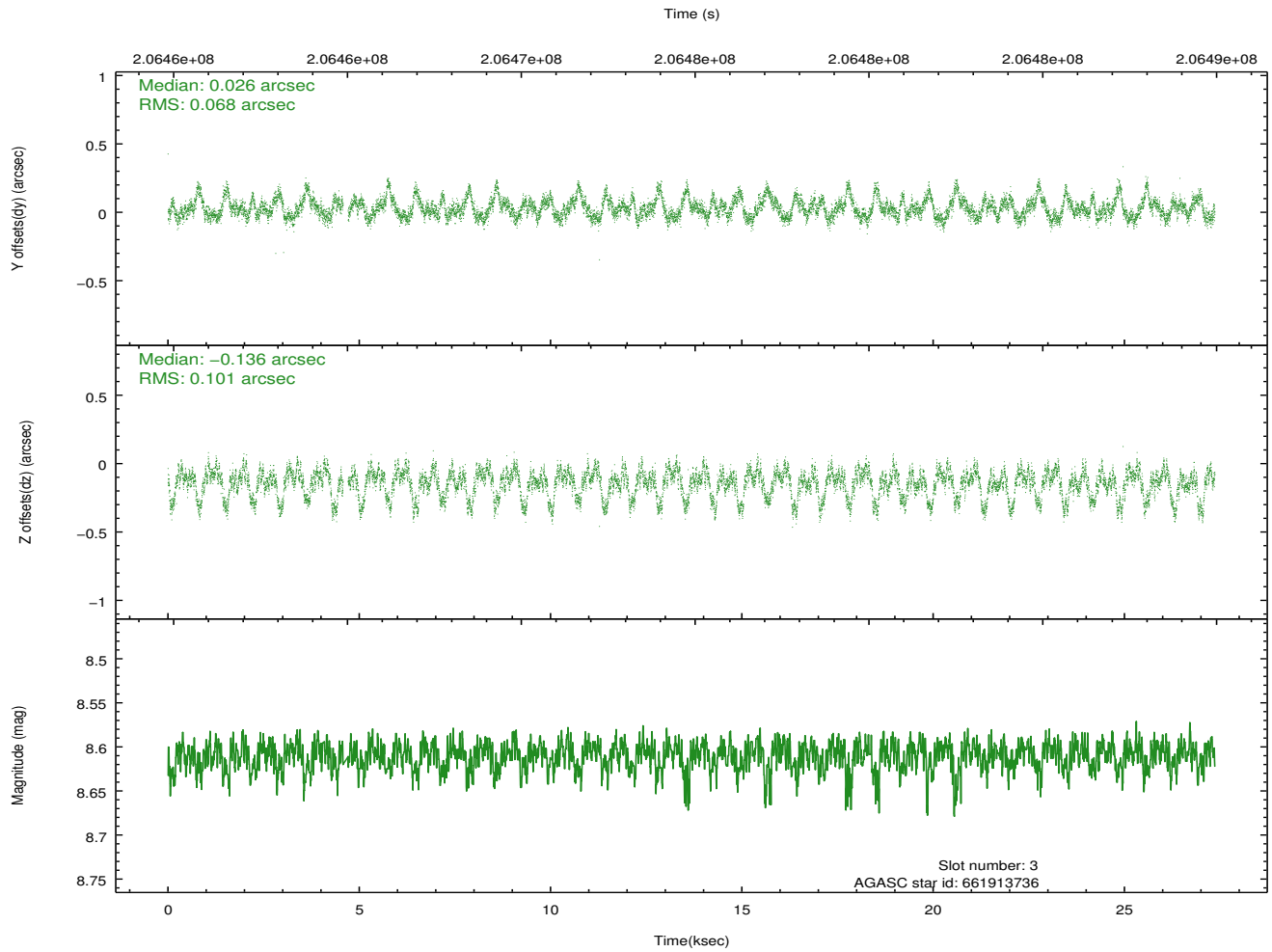
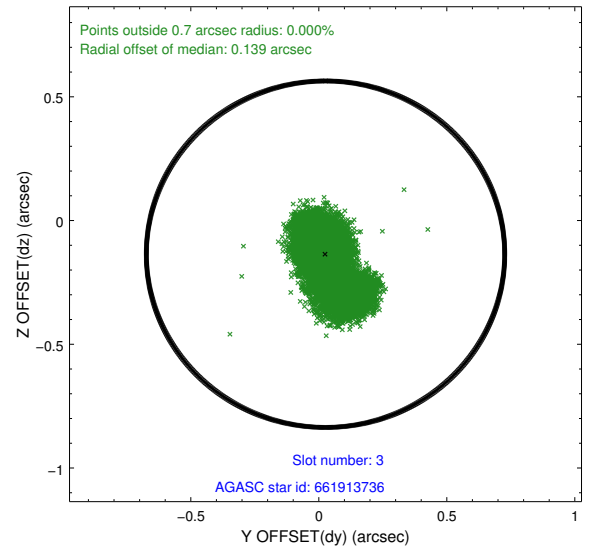
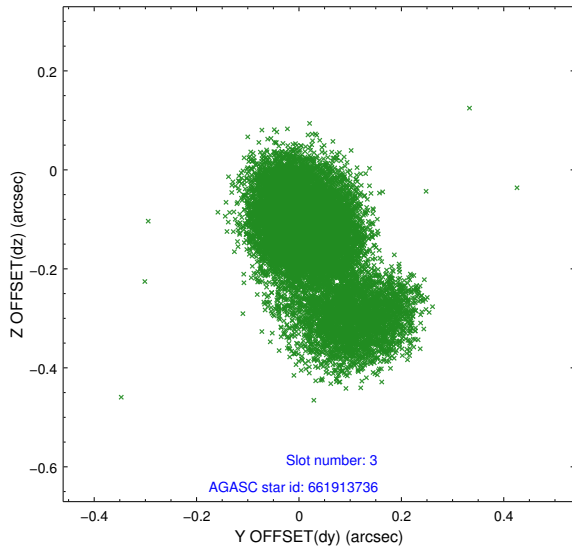


### Slot Statistics

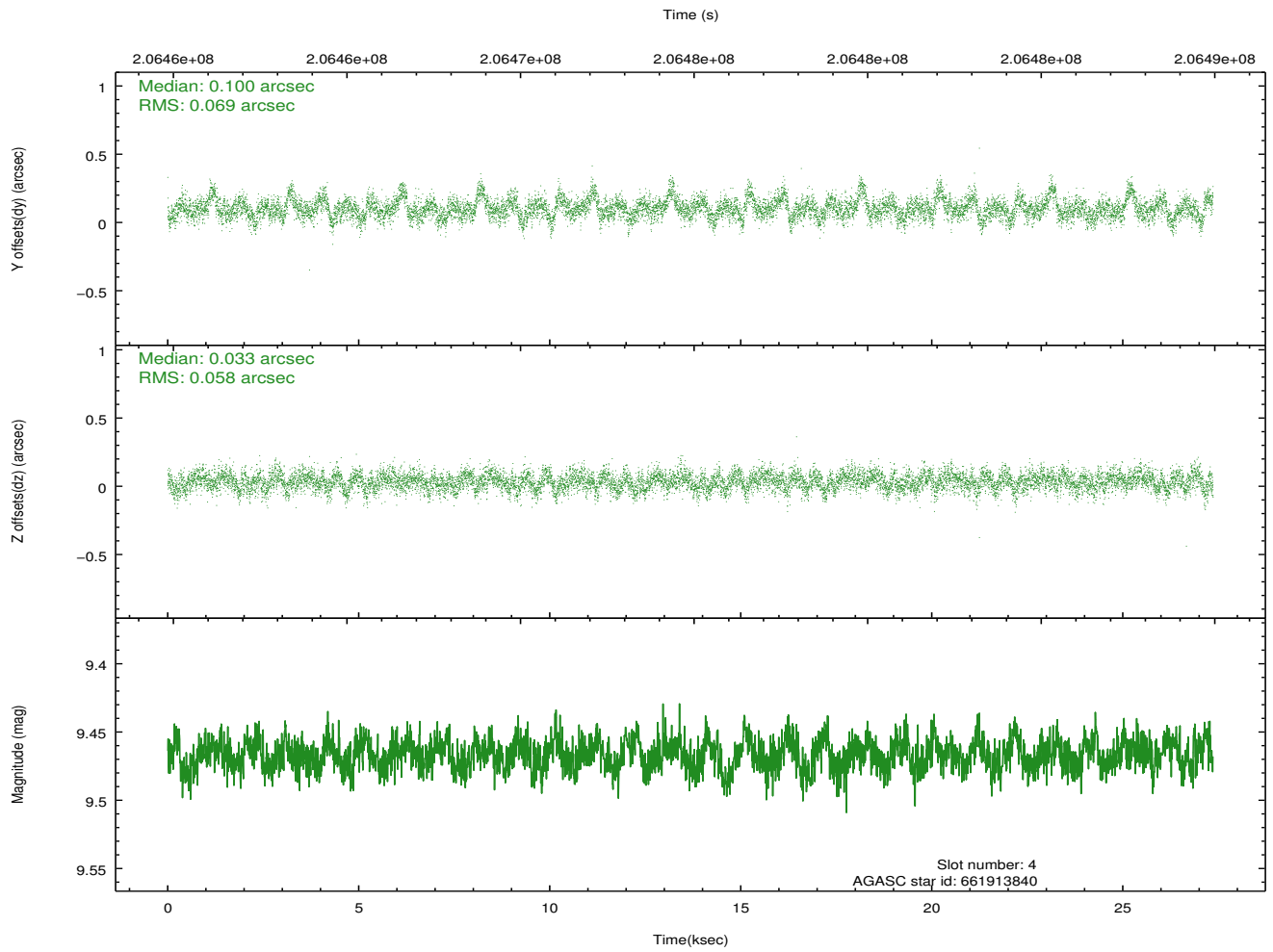
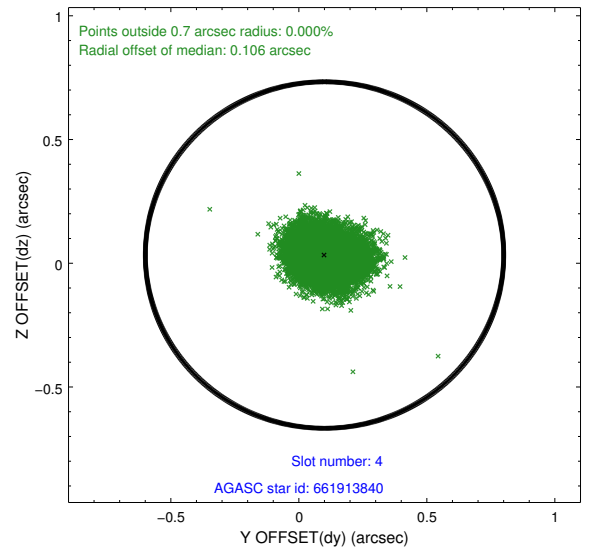
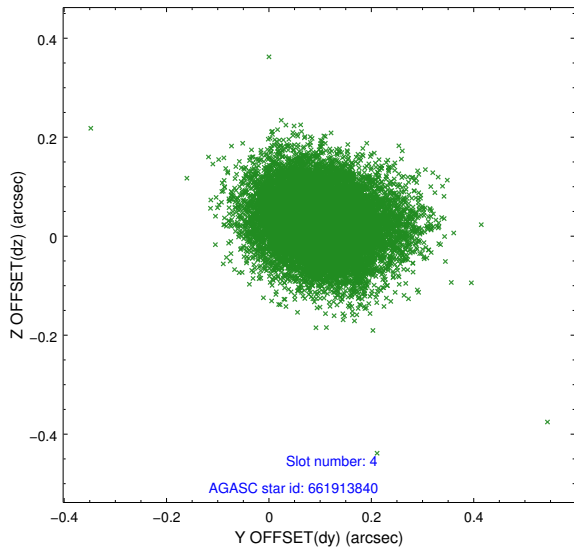
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	6674	-0.055	-0.043	0.010	0.016	0.000000	0.000000	-759.08	-1730.55
1	FID	ACIS-S-4	7.21	6672	0.092	0.038	0.005	0.010	0.000000	0.000000	2154.28	177.94
2	FID	ACIS-S-5	7.23	6674	-0.068	0.014	0.010	0.017	0.000000	0.000000	-1811.83	171.66
3	GUIDE	661913736	8.61	13282	0.026	-0.136	0.123	0.231	251.379843	-1.578178	-435.16	-1927.18
4	GUIDE	661913840	9.47	13340	0.100	0.033	0.096	0.158	252.011553	-1.865356	-541.39	567.67
5	GUIDE	661913904	9.53	13308	0.055	0.096	0.108	0.171	252.168128	-1.869419	-783.49	1077.09
6	GUIDE	661920320	8.26	13343	-0.135	-0.115	0.143	0.206	251.602336	-1.360590	-1496.09	-1567.26
7	GUIDE	662443112	10.01	13326	-0.065	0.134	0.115	0.185	251.937838	-2.151069	495.38	796.58

## 2.4 Star Slots

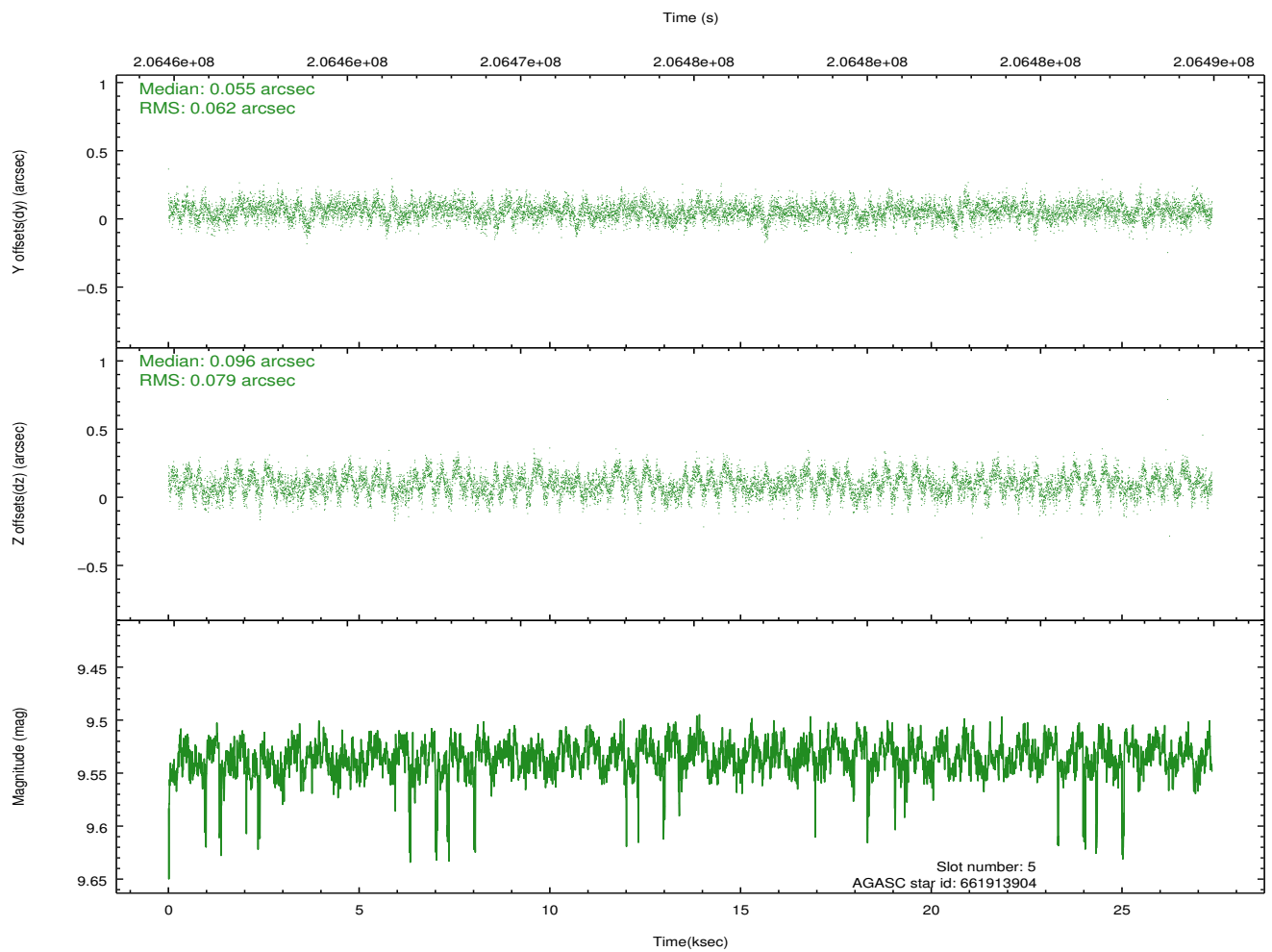
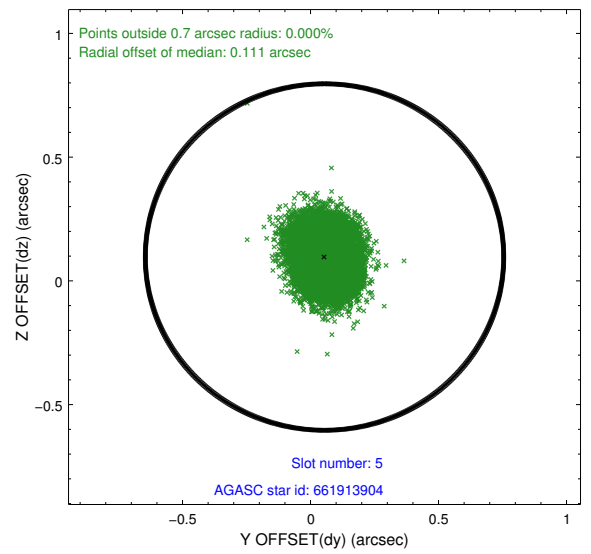
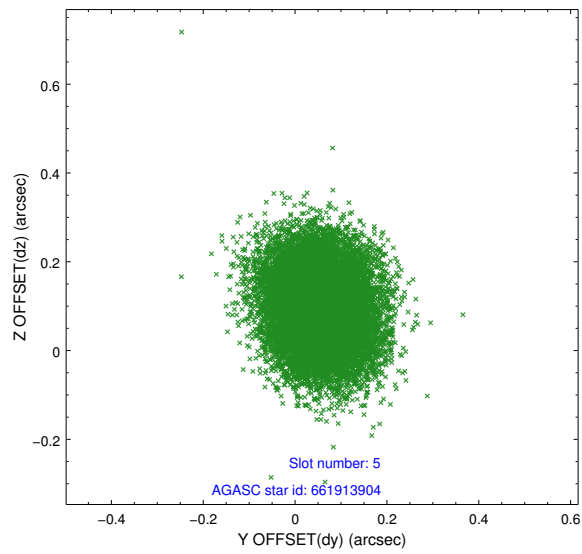
### 2.4.1 Slot 3



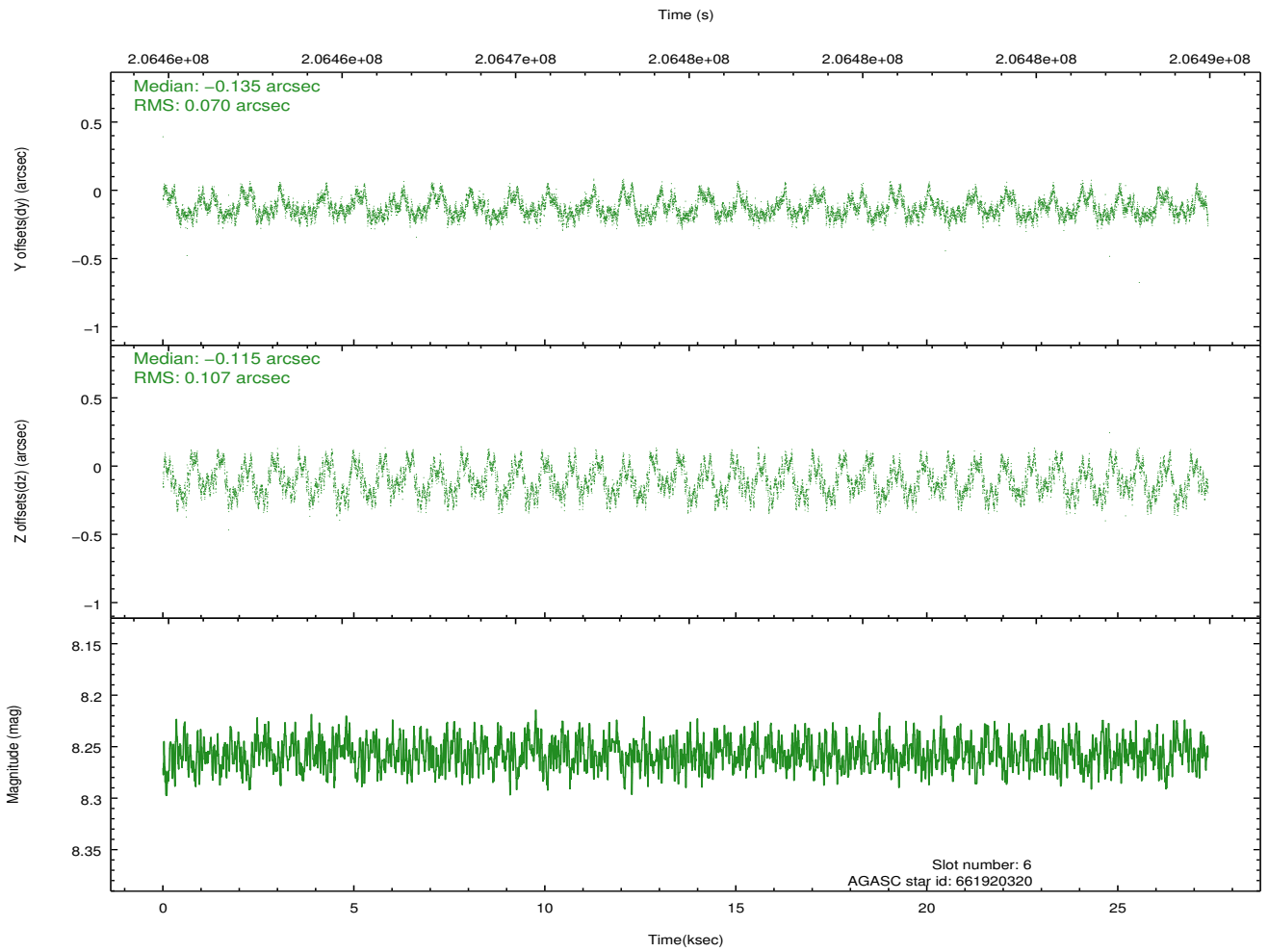
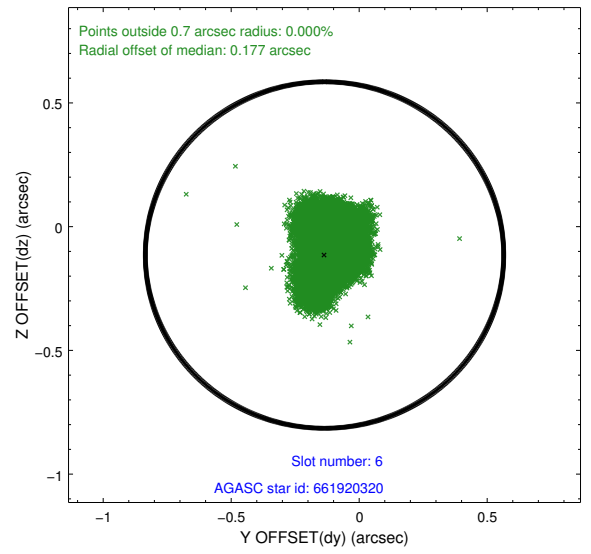
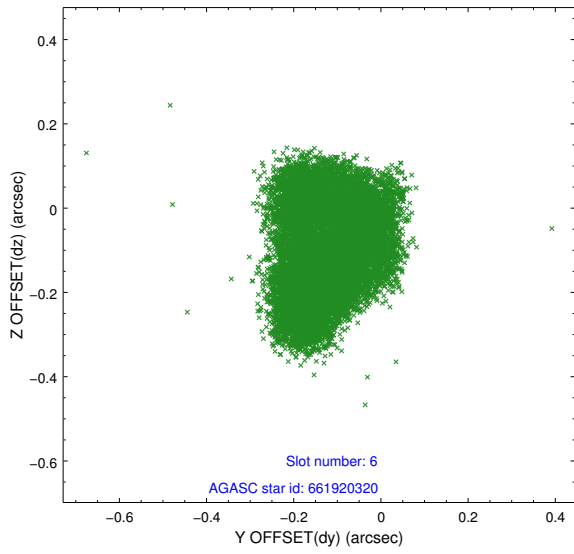
### 2.4.2 Slot 4



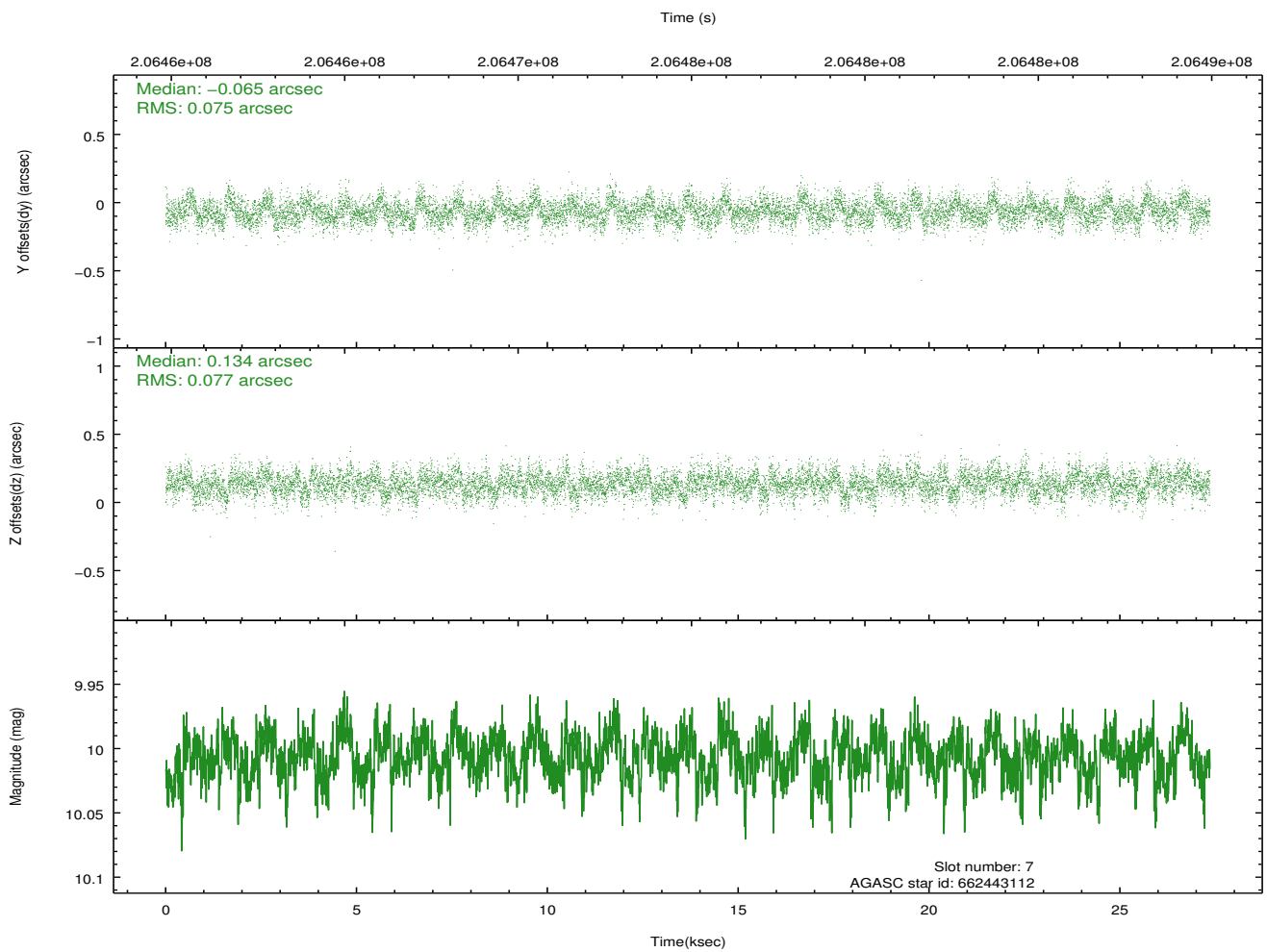
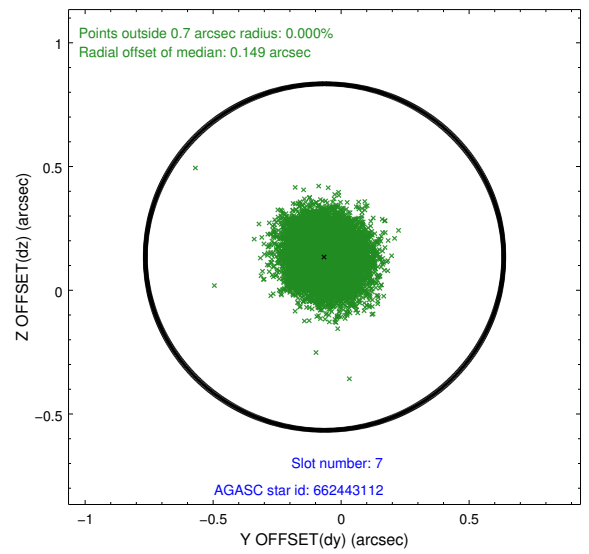
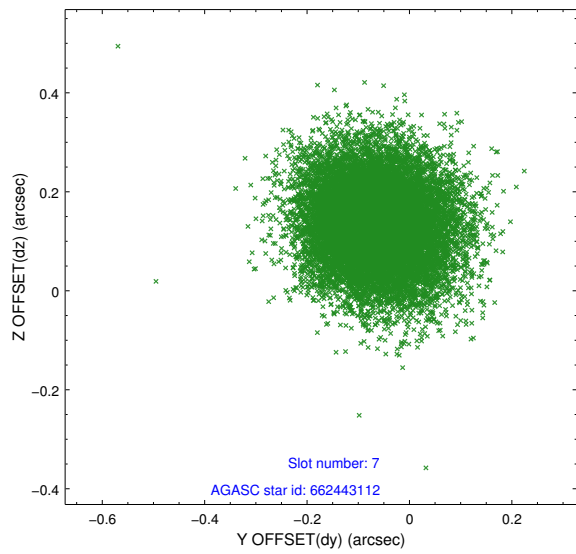
### 2.4.3 Slot 5



### 2.4.4 Slot 6

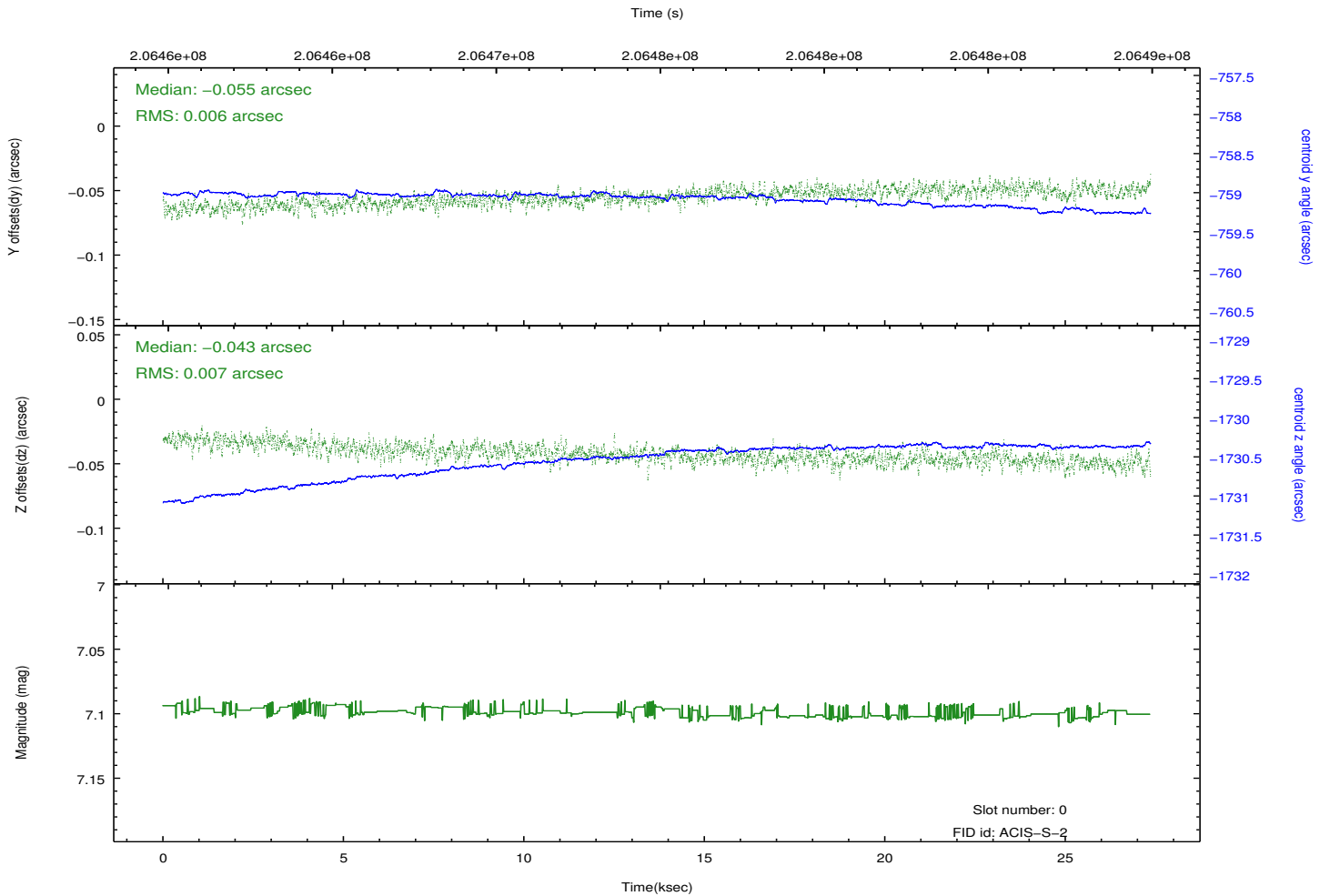
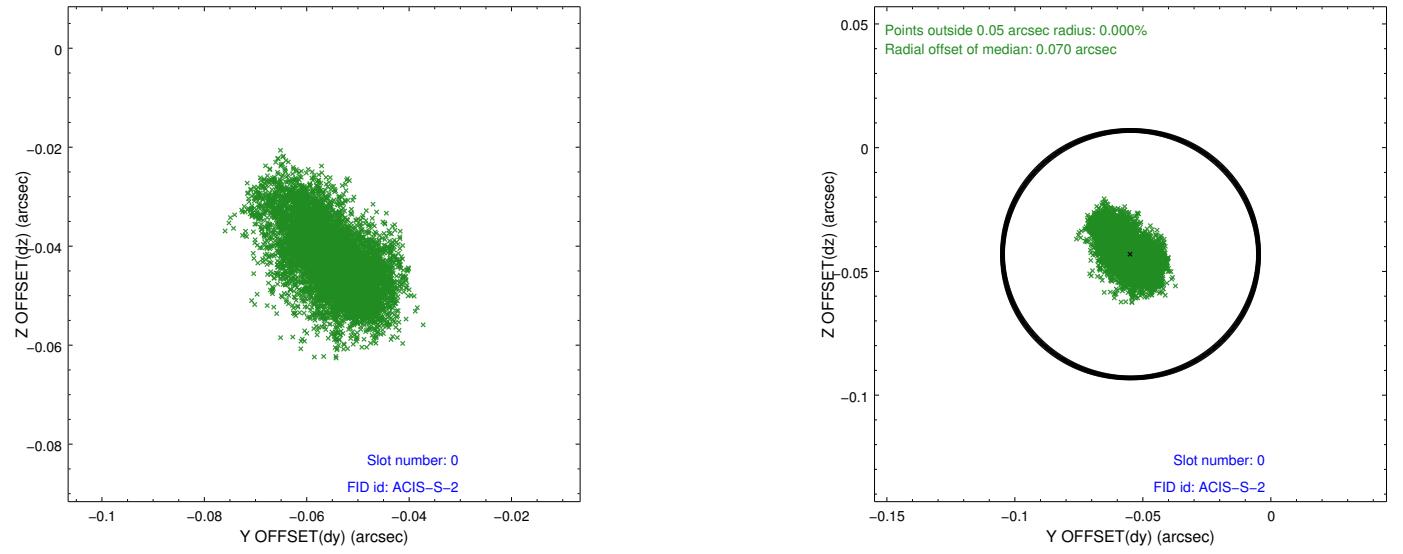


## 2.4.5 Slot 7

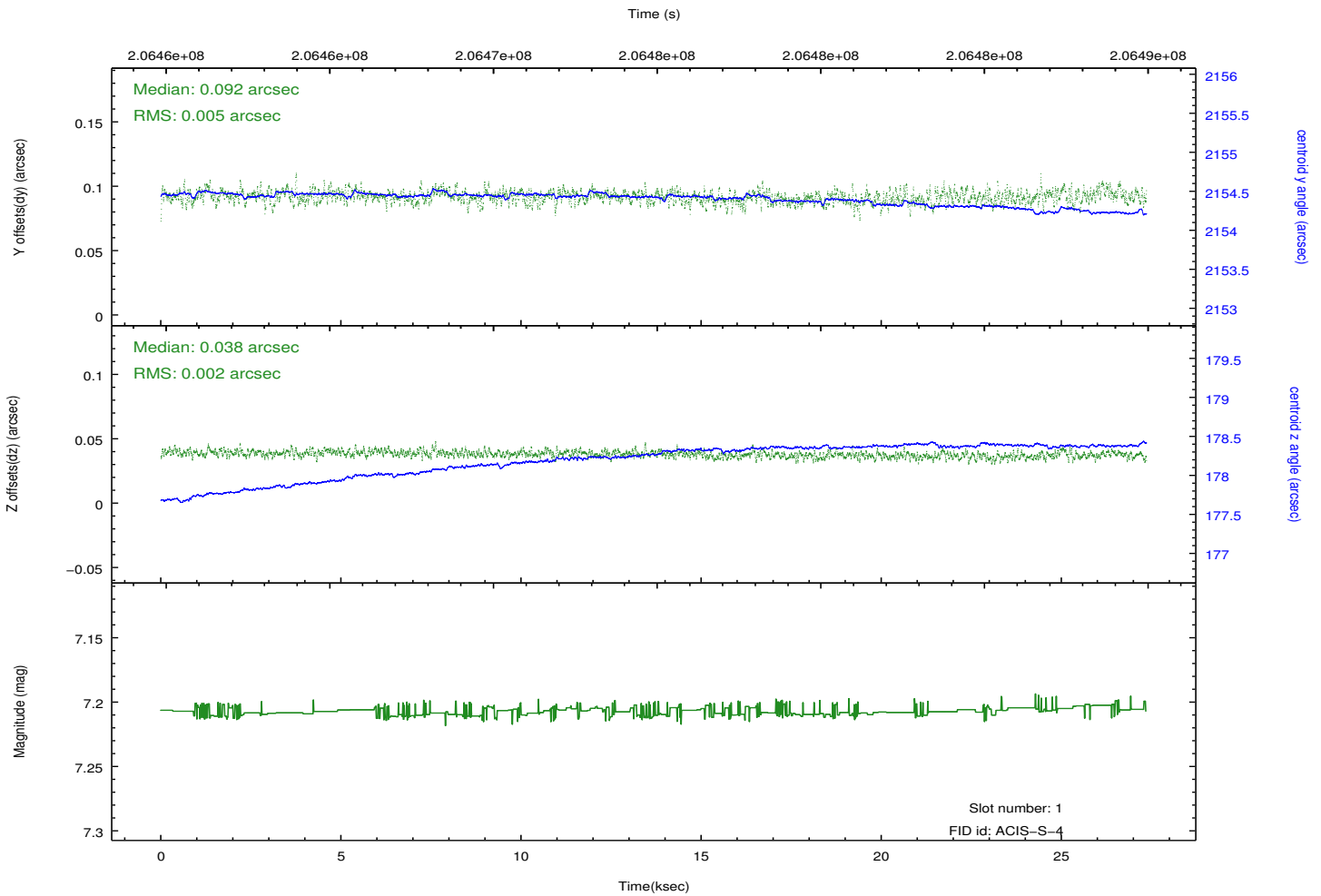
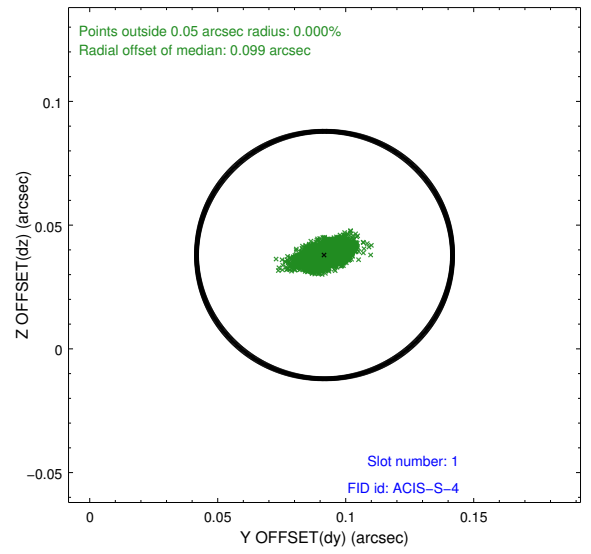
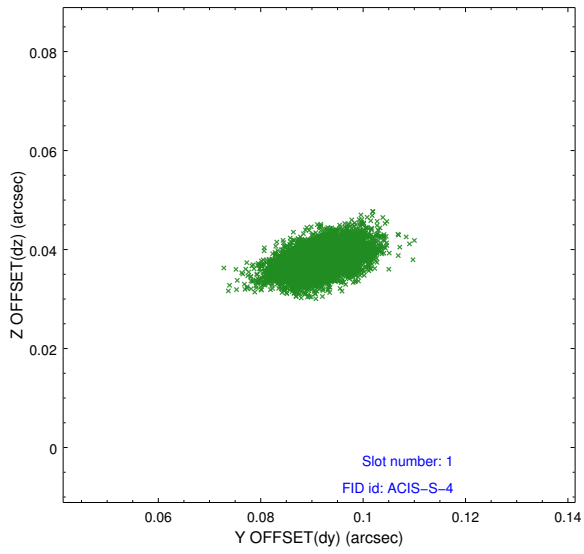


## 2.5 FID Slots

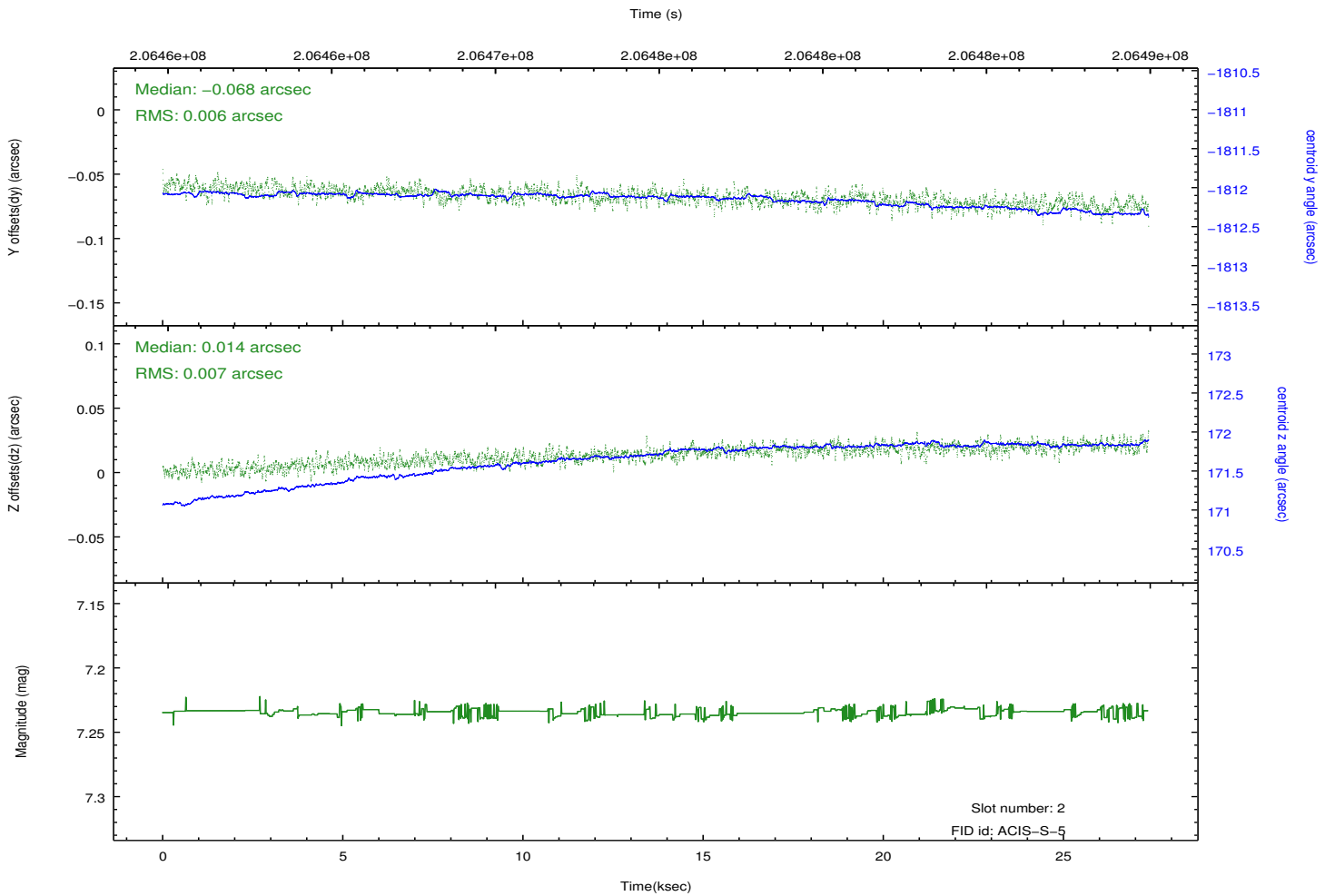
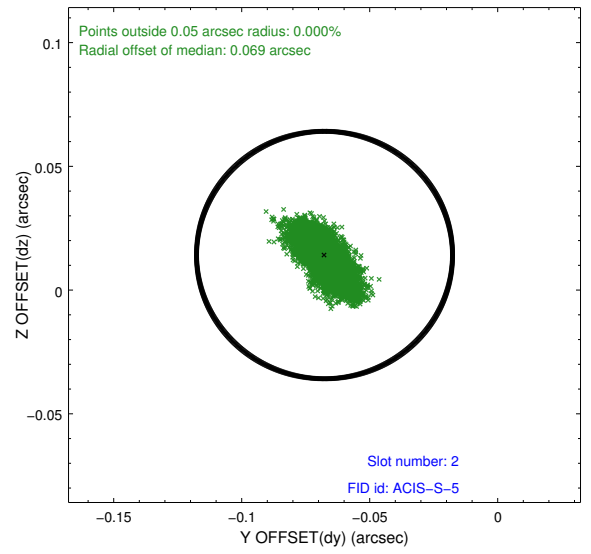
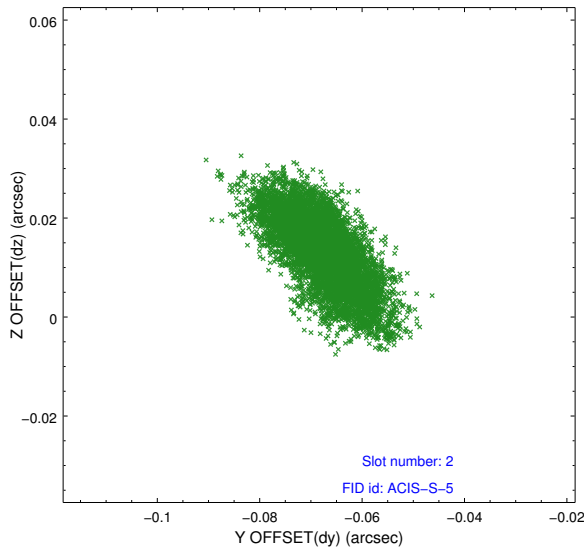
### 2.5.1 Slot 0



## 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)	2012.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.959

## A.2 Comments

Joint Proposal: HST