

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6815 - L2 Version 2  
Chandra X-Ray Center

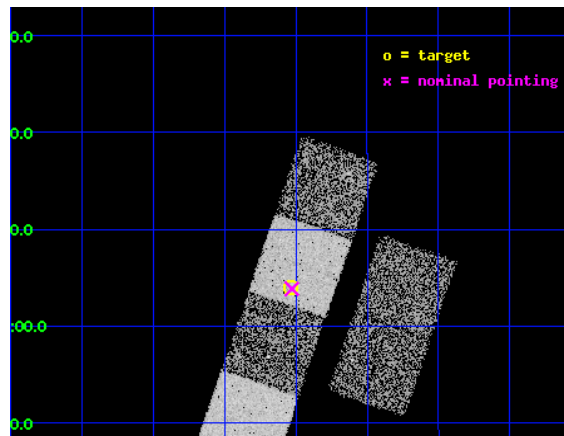
L2 Processing Date : Mar 25 2012

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# 1 Front

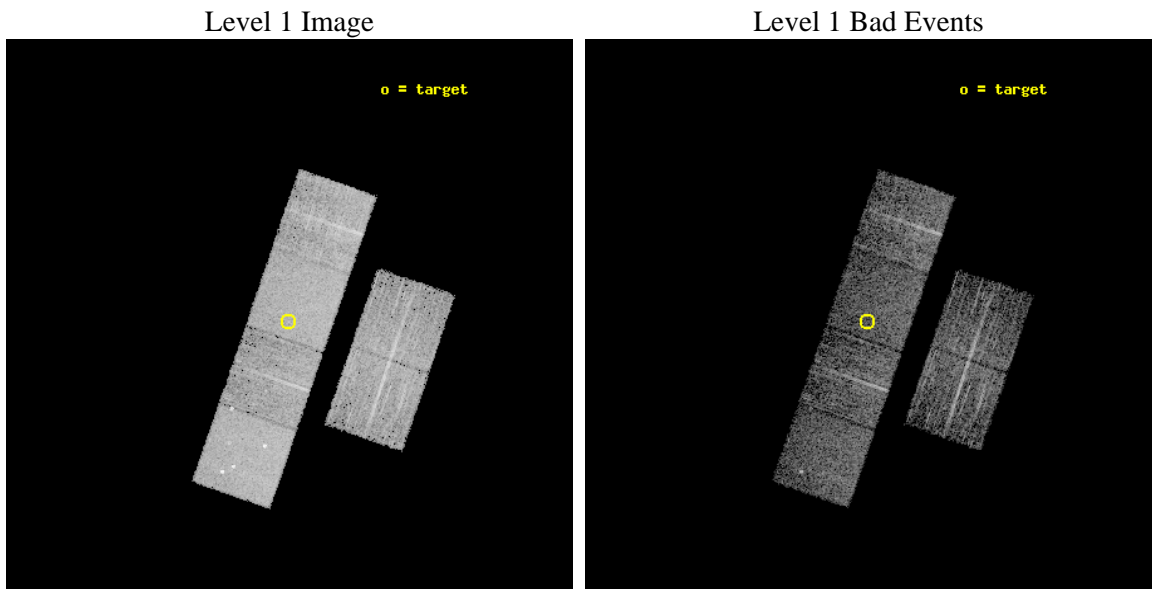
seq_num	701233	Sequence number
obs_id	6815	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0844+0503	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.007917	Observer's specified target RA [deg]
dec_targ	5.066083	Observer's specified target Dec [deg]
ra_nom	131.00681814547	Nominal RA [deg]
dec_nom	5.0642752380445	Nominal Dec [deg]
roll_nom	289.07783022514	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3855.9999856353	Sum of GTIs [s]
livetime	3807.1729920127	Livetime [s]
ontime2	3855.9999856353	Sum of GTIs [s]
ontime3	3855.9399086833	Sum of GTIs [s]
ontime5	3855.9999856353	Sum of GTIs [s]
ontime6	3855.9809486866	Sum of GTIs [s]
ontime7	3855.9999856353	Sum of GTIs [s]
ontime8	3855.8988687098	Sum of GTIs [s]
l2events	53640	Number of level 2 events



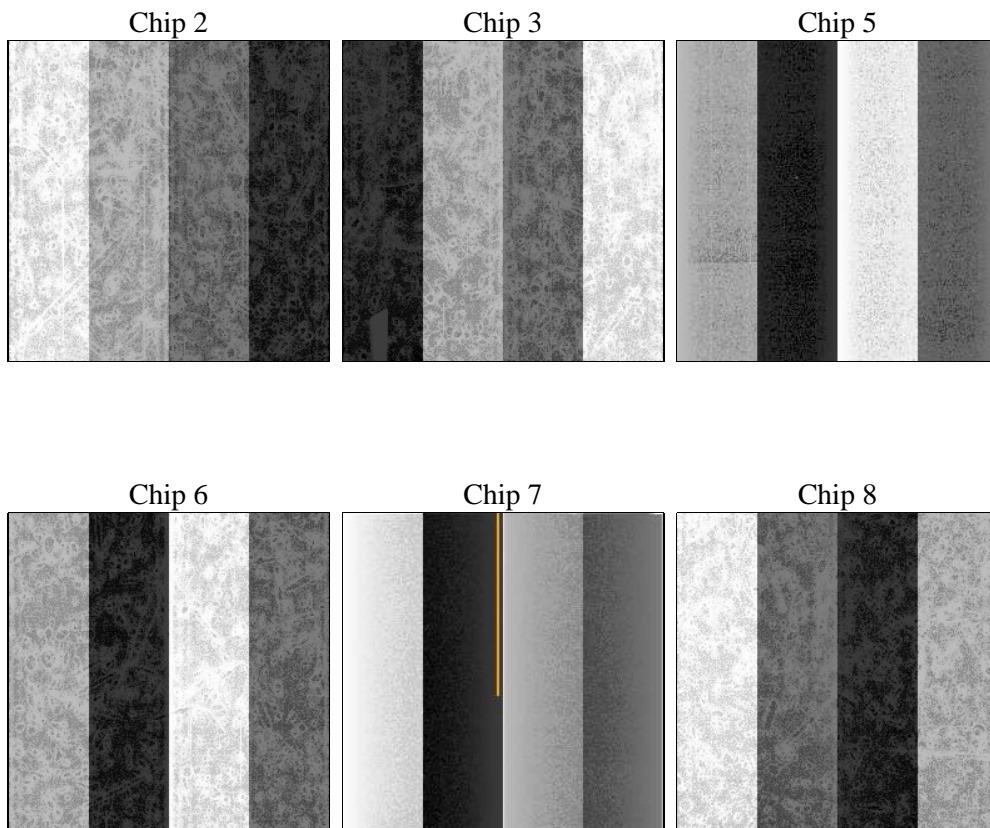
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3855.9999856353	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	3855.9999856353	Sum of GTIs [s]
date	2012-03-25T16:06:09	Date and time of file creation	ontime3	3855.9399086833	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3855.9999856353	Sum of GTIs [s]
			ontime6	3855.9809486866	Sum of GTIs [s]
			ontime7	3855.9999856353	Sum of GTIs [s]
			ontime8	3855.8988687098	Sum of GTIs [s]
			l1events	238632	Number of level 1 events

### 2.1.4 Events

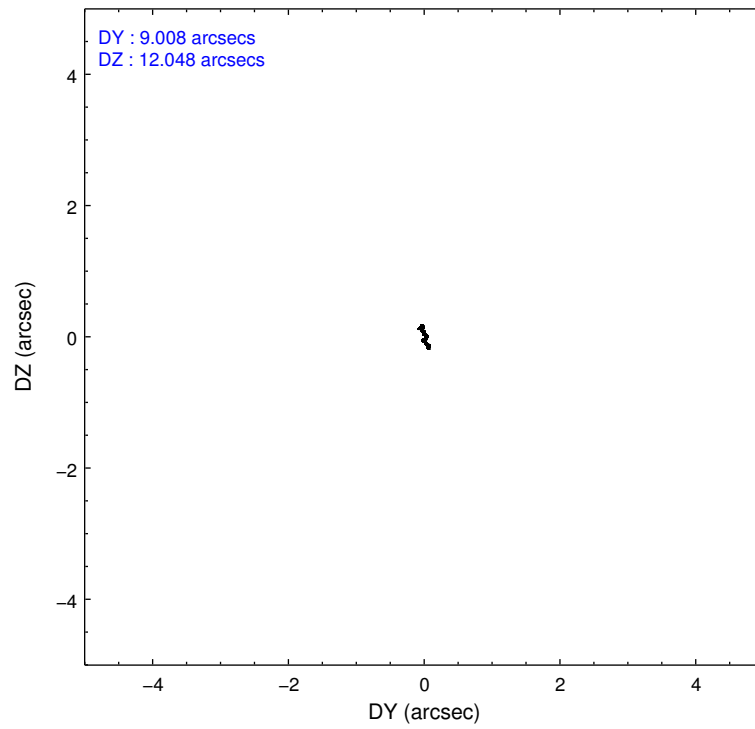
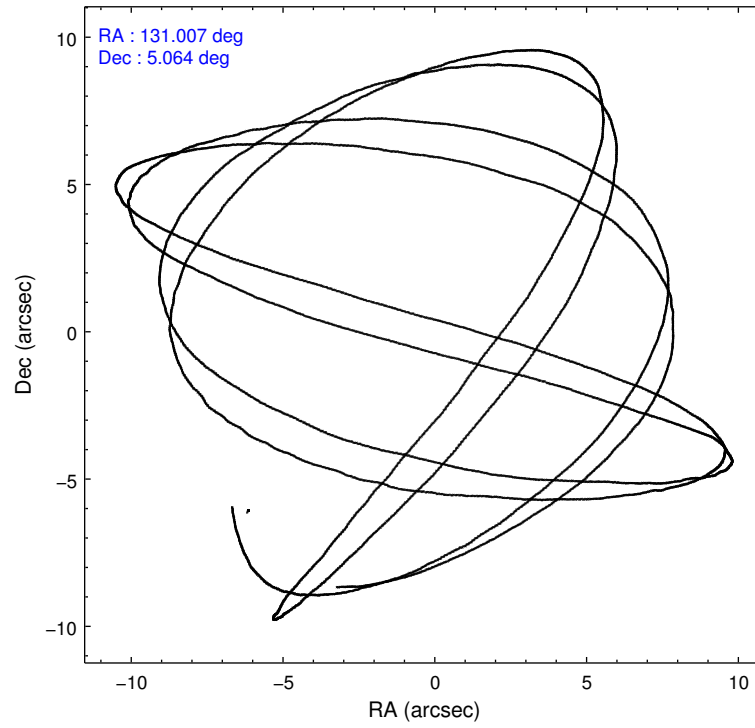
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	34840	31192	51247	33169	45070	43114	grade 0 events	1703	1594	2857	1648	1614	2807
rejected events	30916	27421	27405	29182	26285	33762		4%	5%	5%	4%	3%	6%
rejected %	88%	87%	53%	87%	58%	78%	grade 1 events	34	20	110	15	42	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	835	764	7157	827	3887	2181
								2%	2%	13%	2%	8%	5%
							grade 3 events	370	366	884	367	1636	892
								1%	1%	1%	1%	3%	2%
							grade 4 events	368	365	844	356	1670	912
								1%	1%	1%	1%	3%	2%
							grade 5 events	1270	1453	3756	1479	4263	2058
								3%	4%	7%	4%	9%	4%
							grade 6 events	657	685	12118	794	9990	2567
								1%	2%	23%	2%	22%	5%
							grade 7 events	29603	25945	23521	27683	21968	31666
								84%	83%	45%	83%	48%	73%

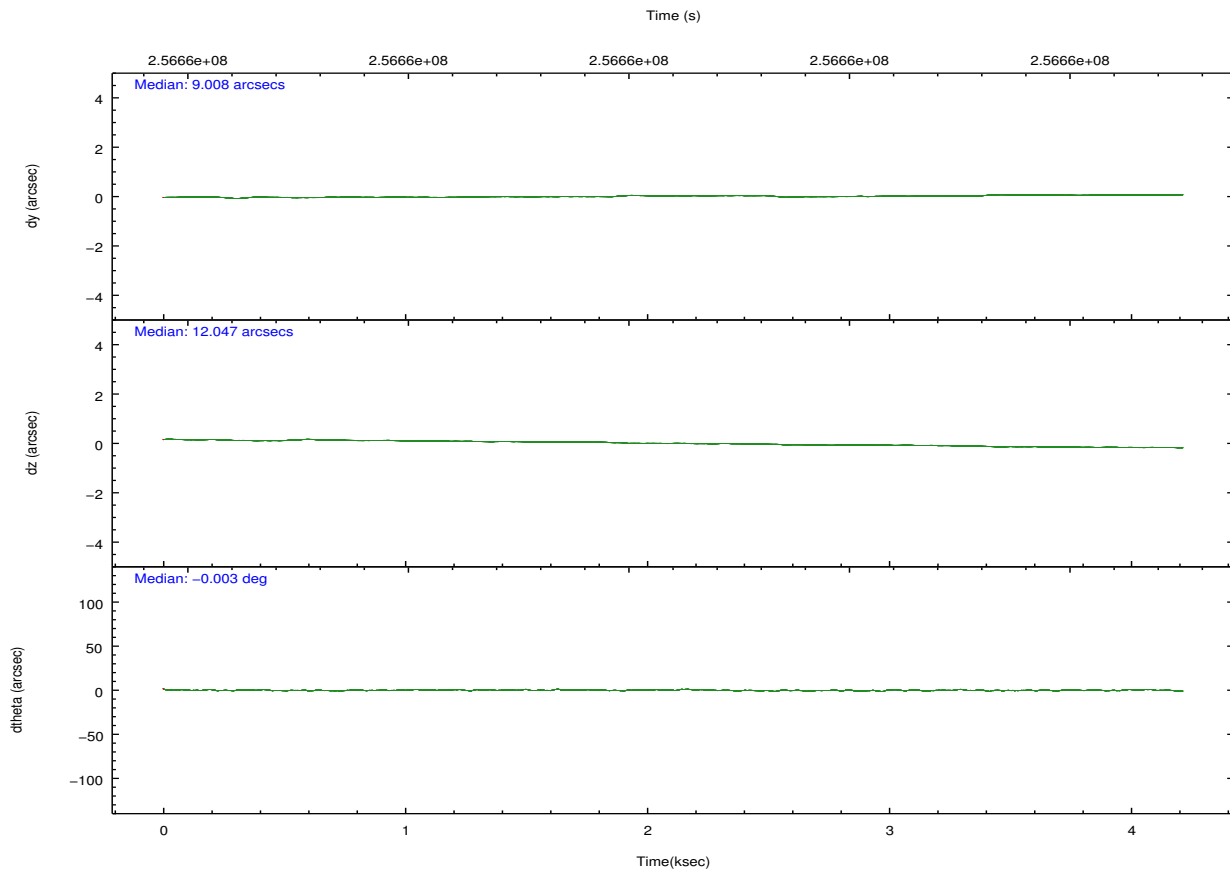
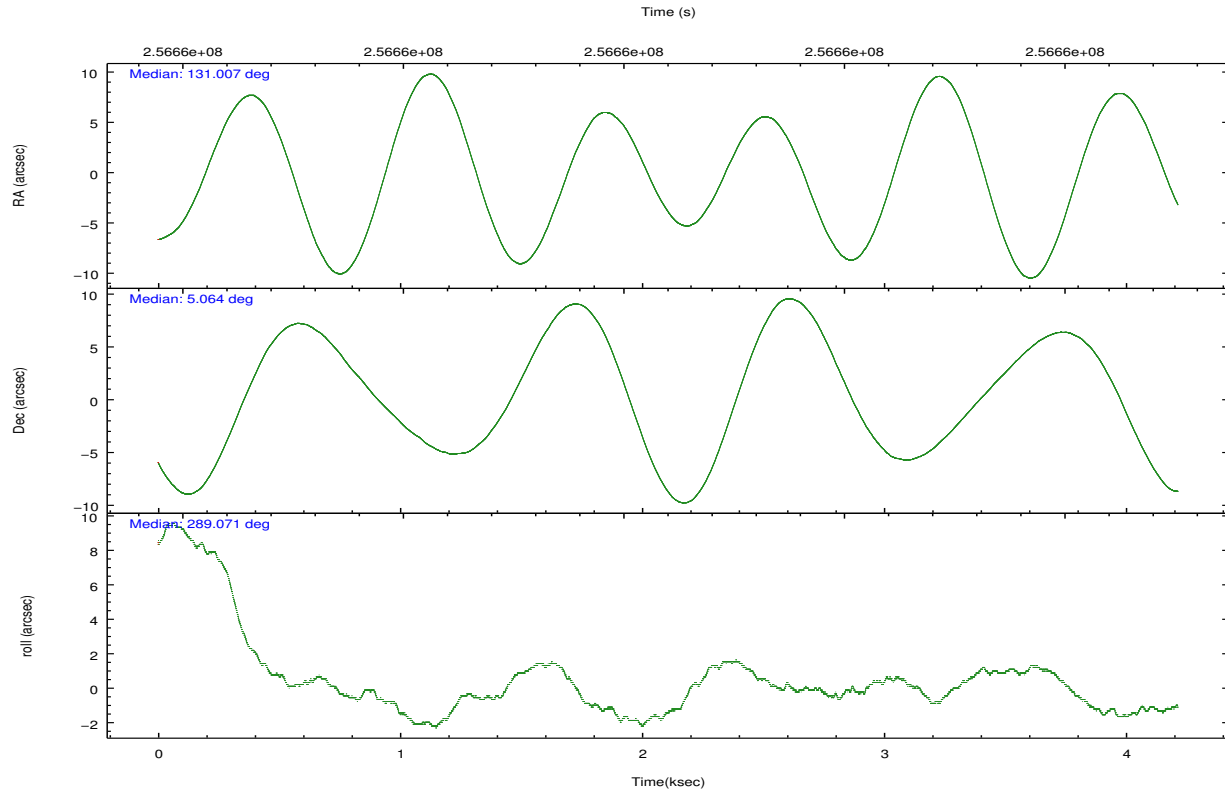


## 2.2 Compared Parameters

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	130.985839	131.0068181454705	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.081921	5.06427523804453	Alternating exposures requested	N	N
[deg] Pointing Roll	288.923051	289.0778302251418	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	256660407.184000	256659379.29817			
Observation start date	2006-02-18T14:32:22	2006-02-18T14:16:19			
[s] Observation end time (MET)	256664307.184000	256665540.06096			
Observation end date	2006-02-18T15:37:22	2006-02-18T15:59:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



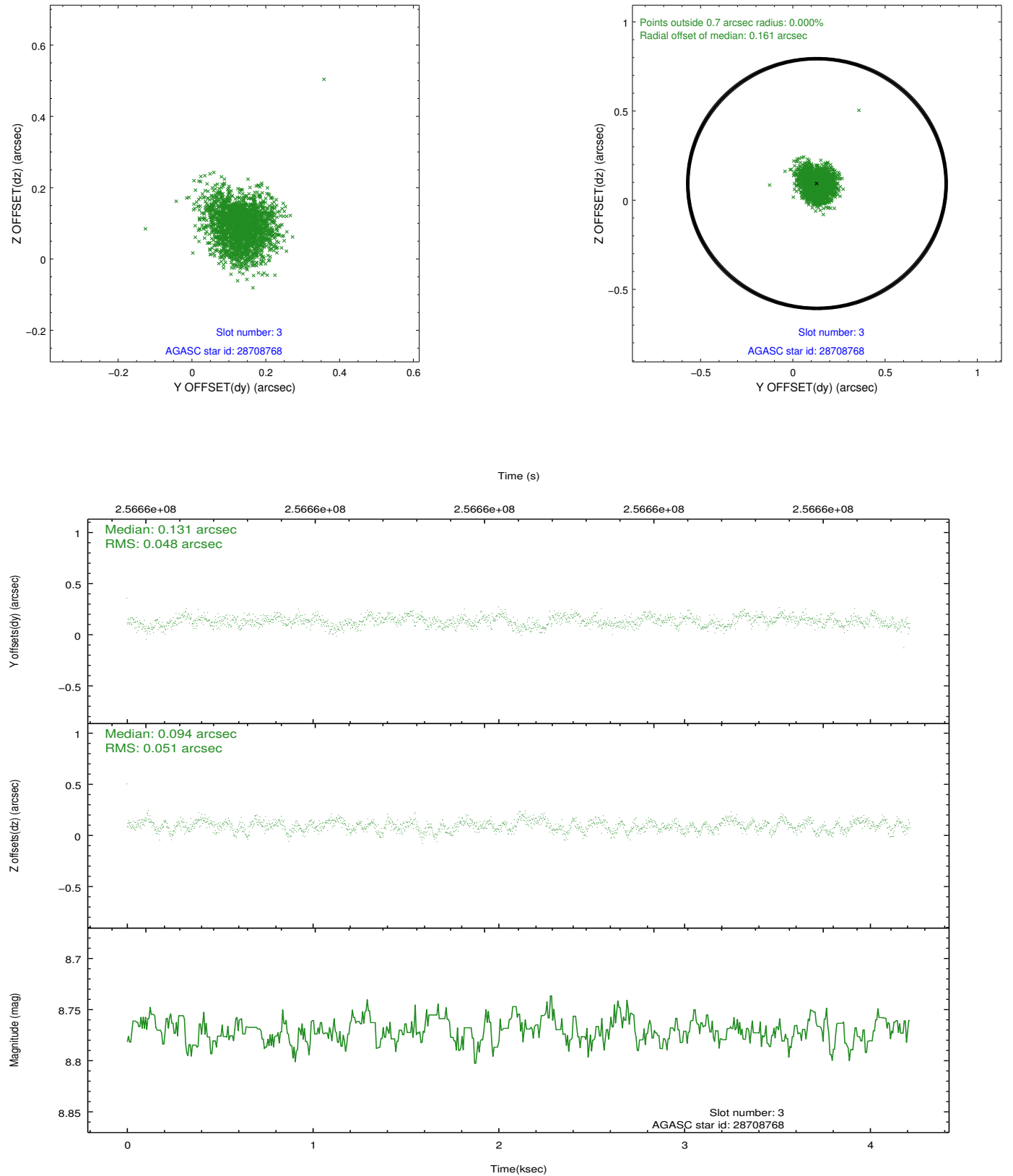


### Slot Statistics

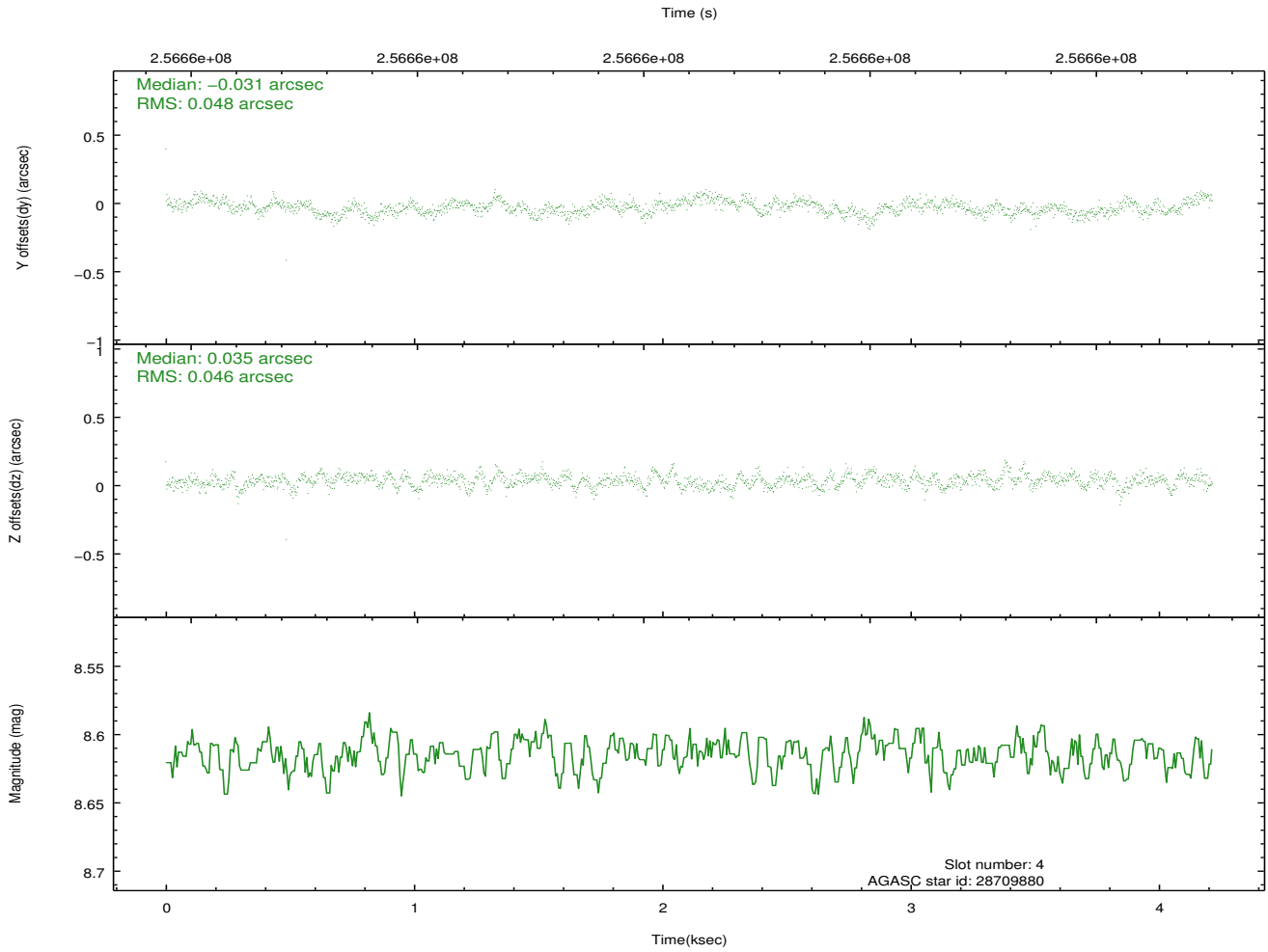
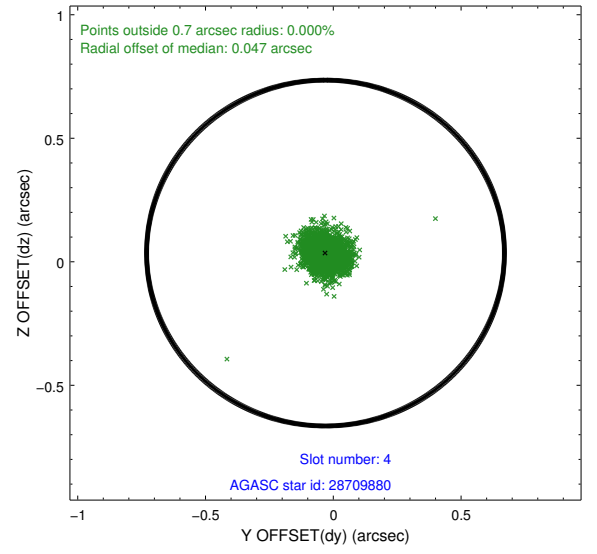
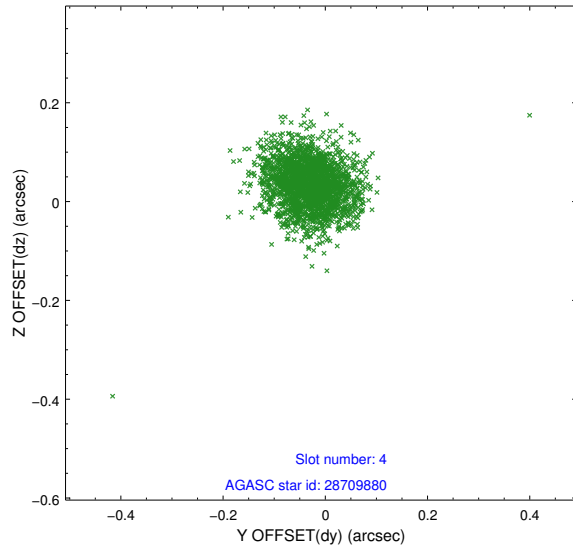
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1028	-0.058	-0.031	0.006	0.011	0.000000	0.000000	-761.90	-1733.37
1	FID	ACIS-S-4	7.20	1029	0.068	0.028	0.006	0.010	0.000000	0.000000	2150.85	173.62
2	FID	ACIS-S-6	7.35	1029	-0.037	0.011	0.008	0.012	0.000000	0.000000	402.02	812.69
3	GUIDE	28708768	8.77	2054	0.131	0.094	0.075	0.117	131.015092	4.641351	1534.72	-415.11
4	GUIDE	28709880	8.61	2057	-0.031	0.035	0.068	0.112	130.329217	5.384000	-1792.27	-1873.54
5	GUIDE	28710928	8.62	2053	-0.090	0.010	0.070	0.109	130.244128	5.433838	-2062.69	-2104.35
6	GUIDE	28719496	8.79	2056	0.019	0.024	0.077	0.118	130.423174	4.633752	870.06	-2433.79
7	GUIDE	28836080	8.30	2056	-0.028	-0.160	0.068	0.107	131.551996	5.286863	-40.45	2158.13

## 2.4 Star Slots

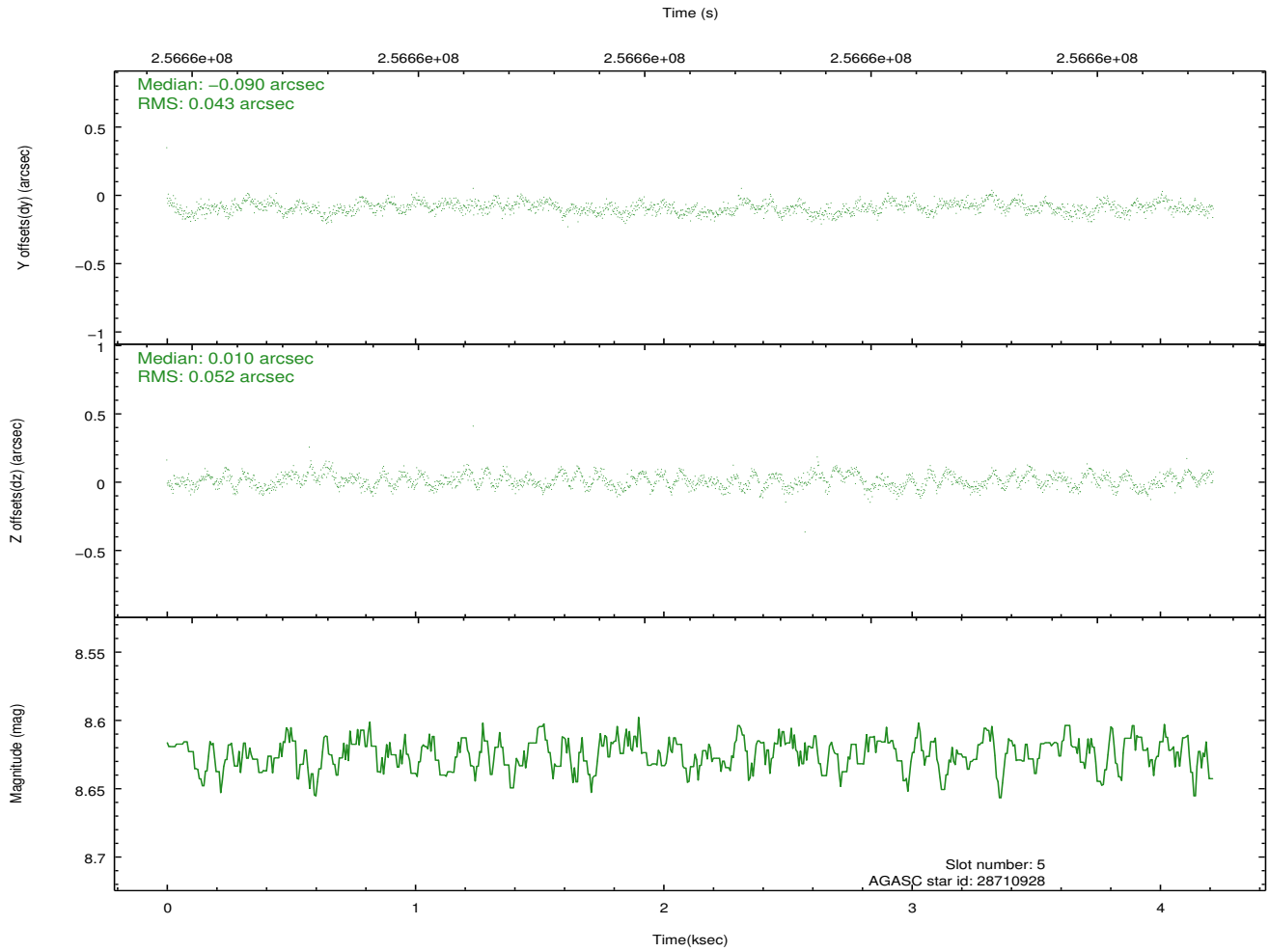
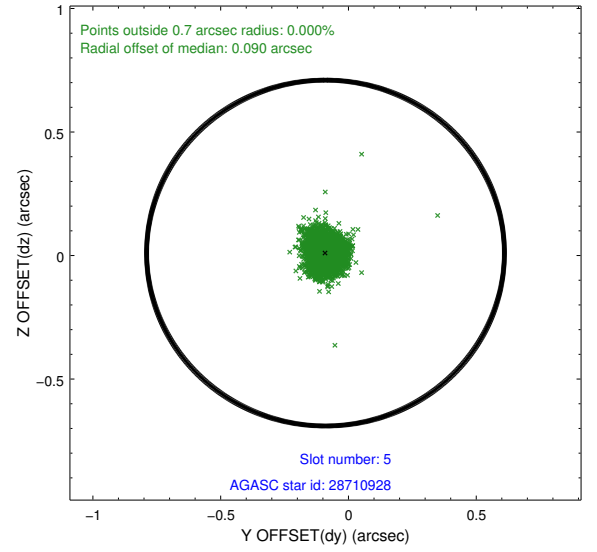
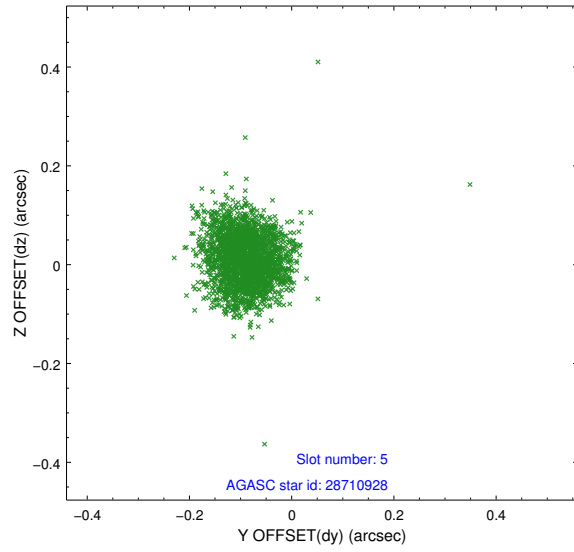
### 2.4.1 Slot 3



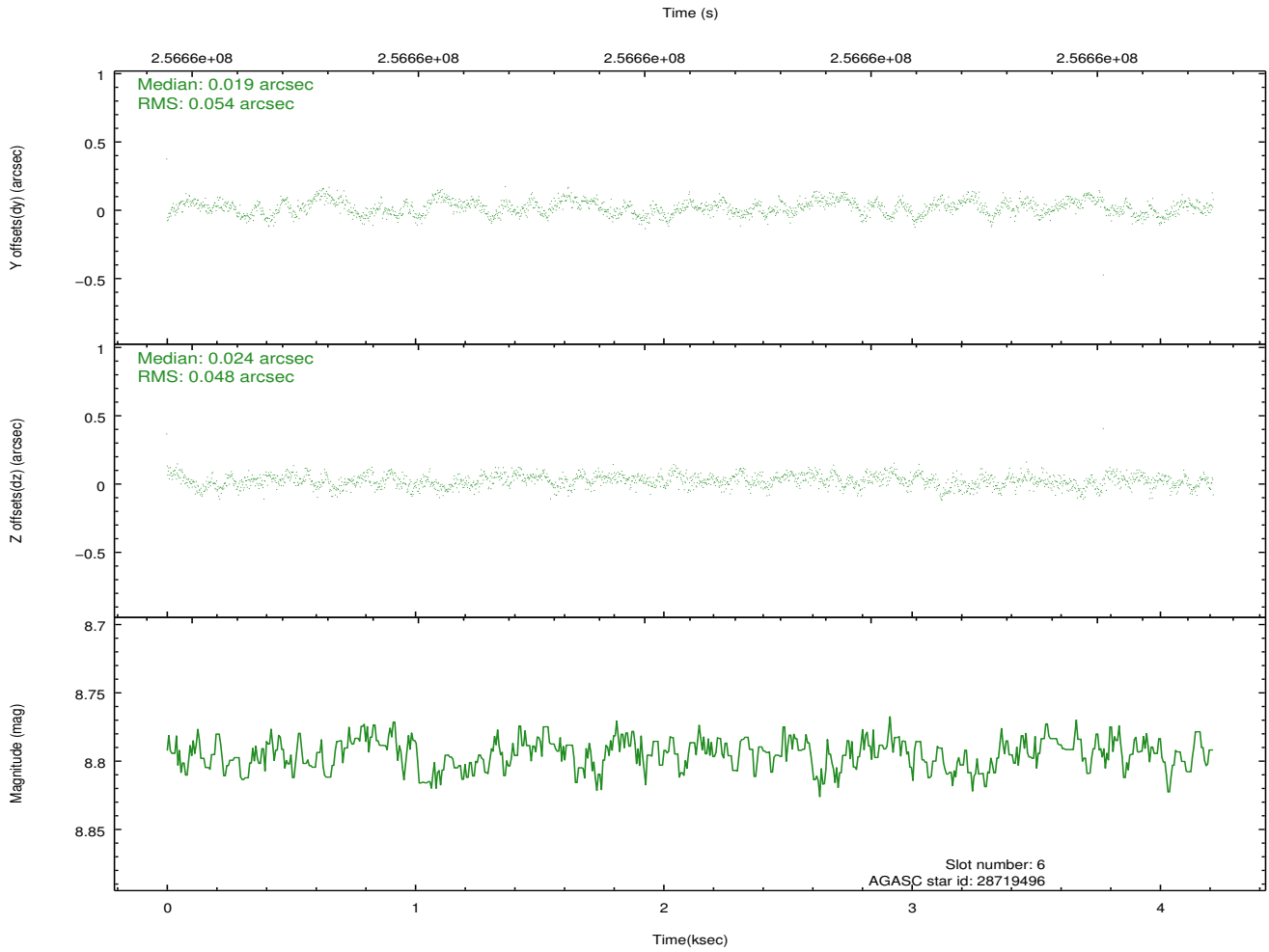
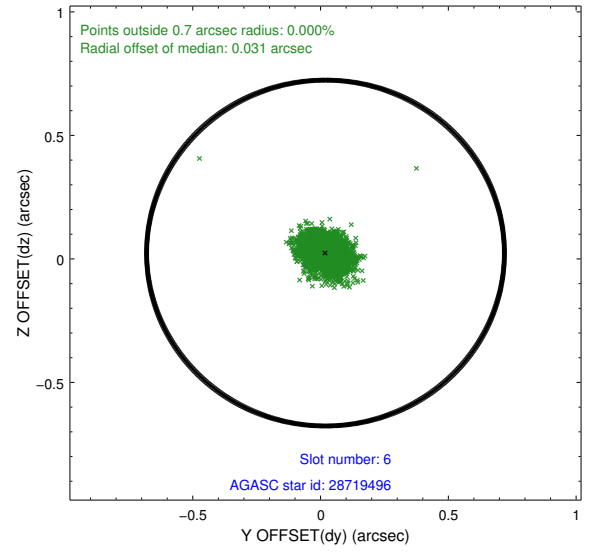
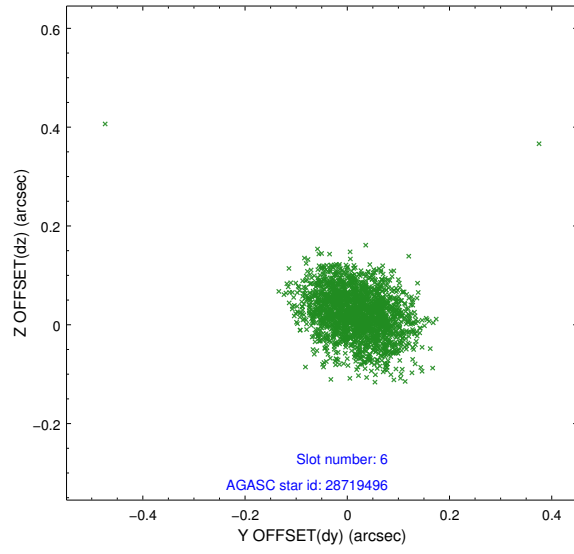
## 2.4.2 Slot 4



### 2.4.3 Slot 5

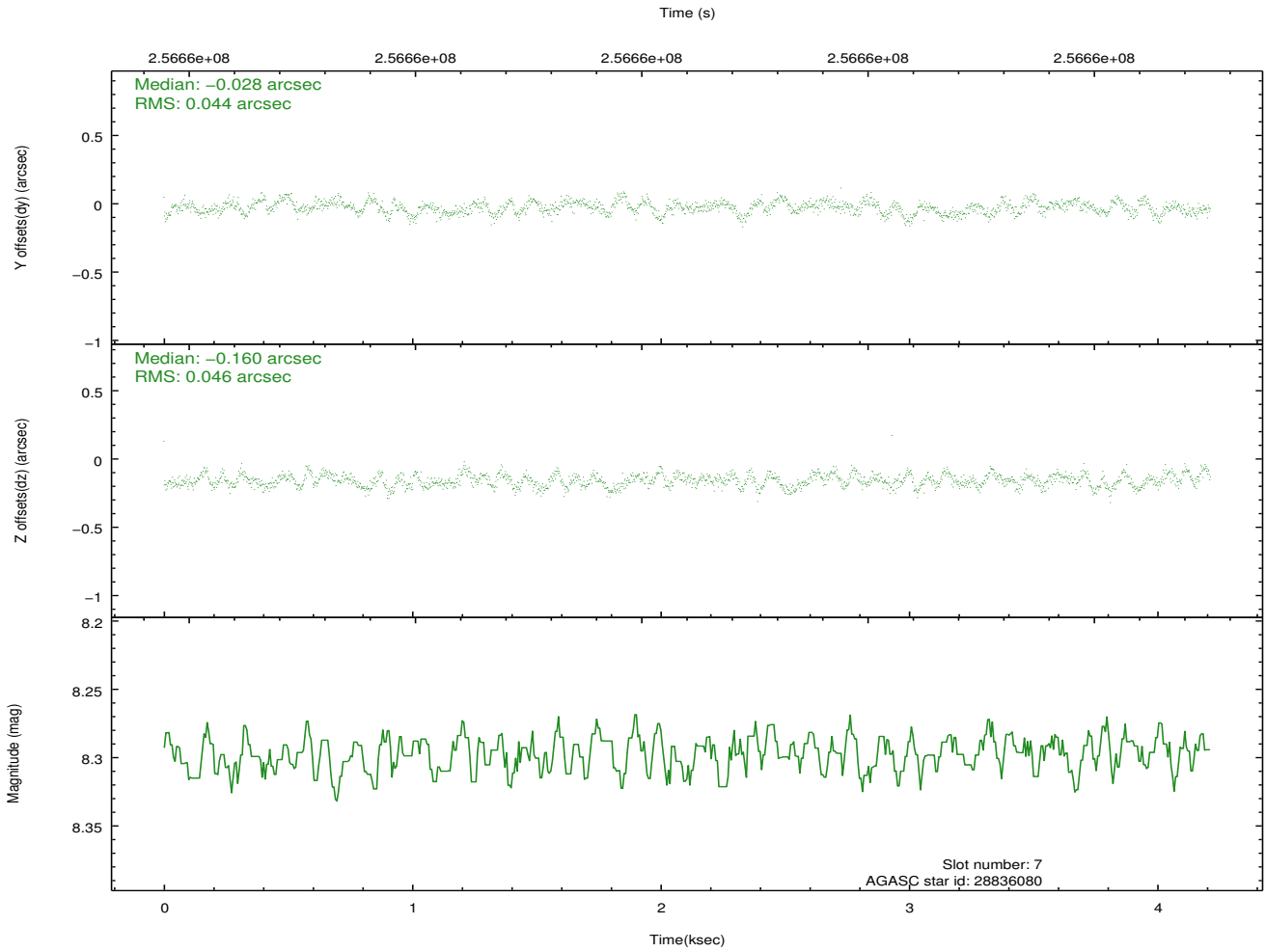
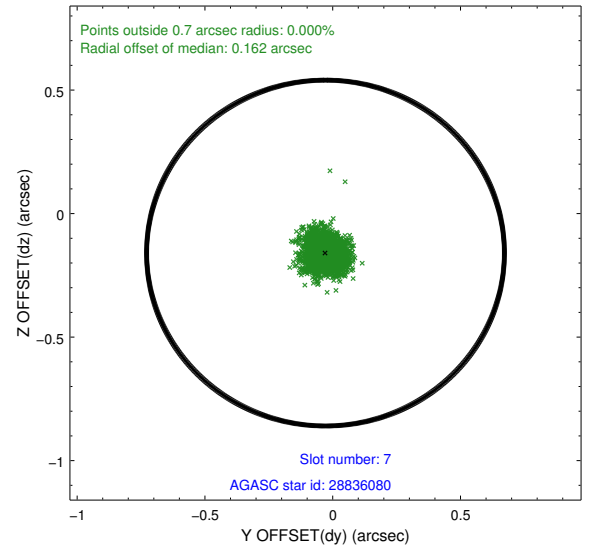
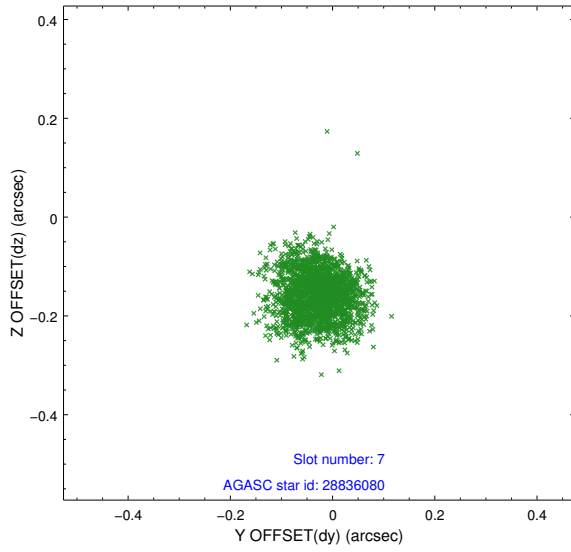


## 2.4.4 Slot 6



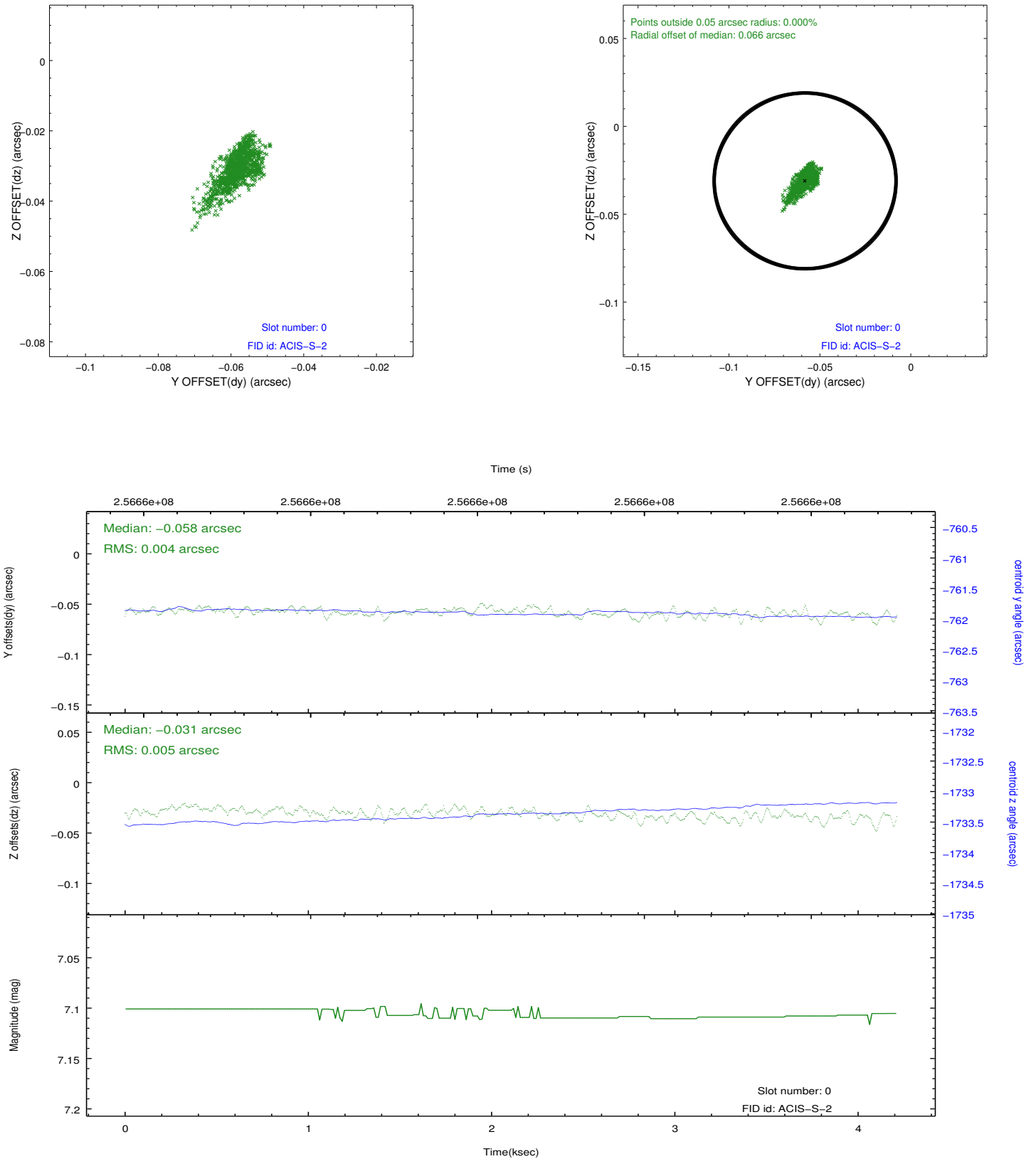


## 2.4.5 Slot 7

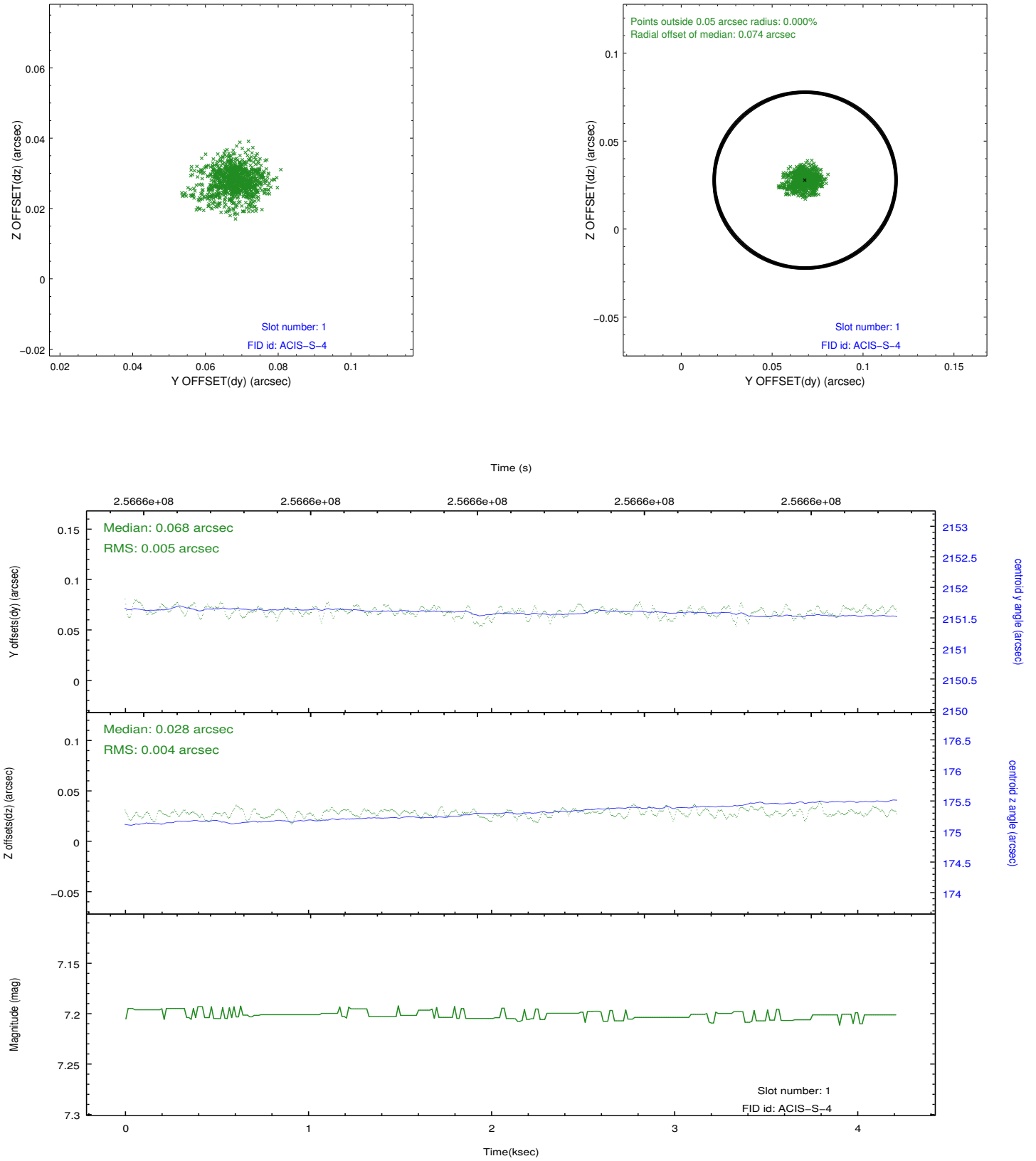


## 2.5 FID Slots

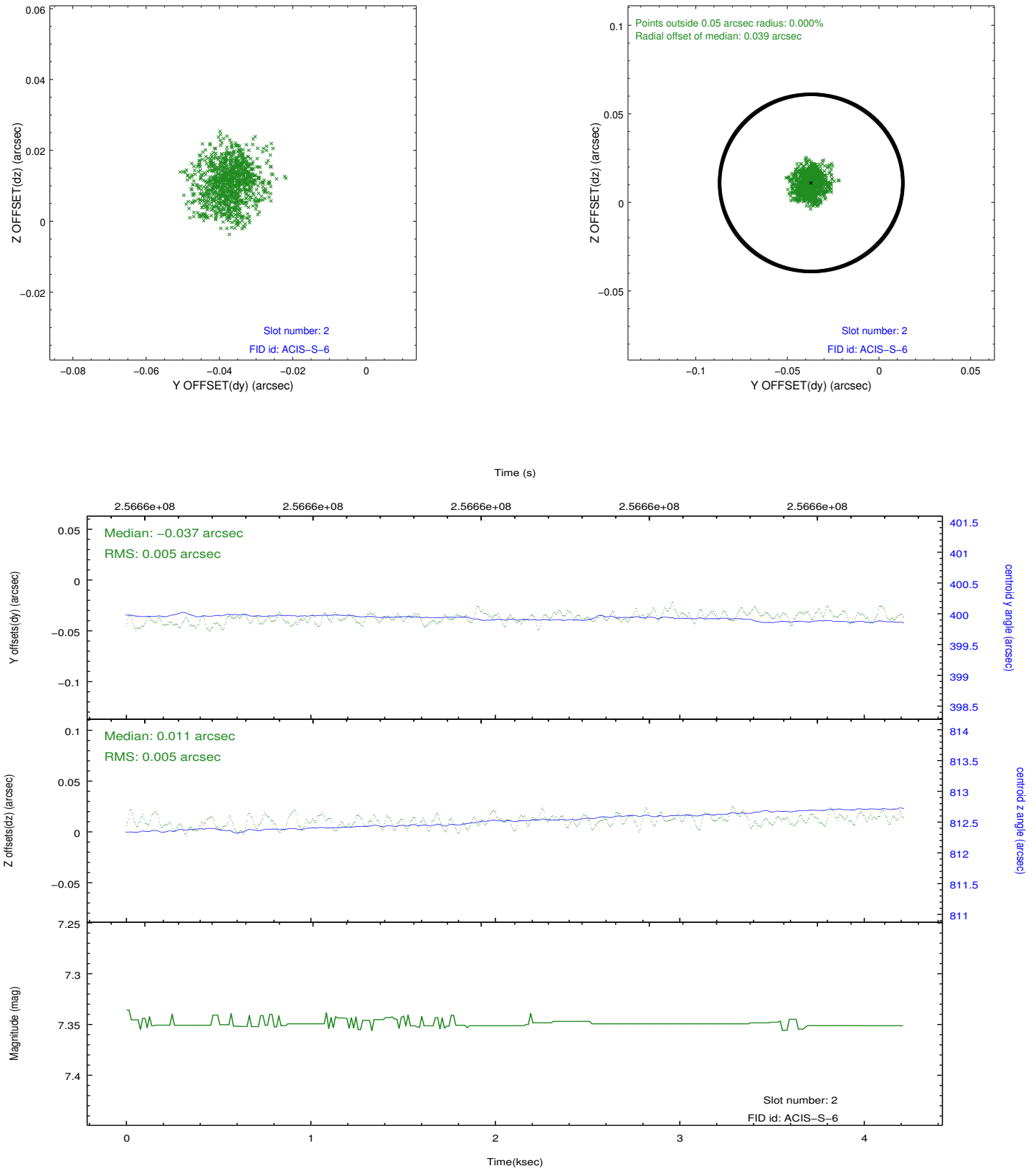
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.85599998

### A.2 Comments