

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6829 - L2 Version 2  
Chandra X-Ray Center

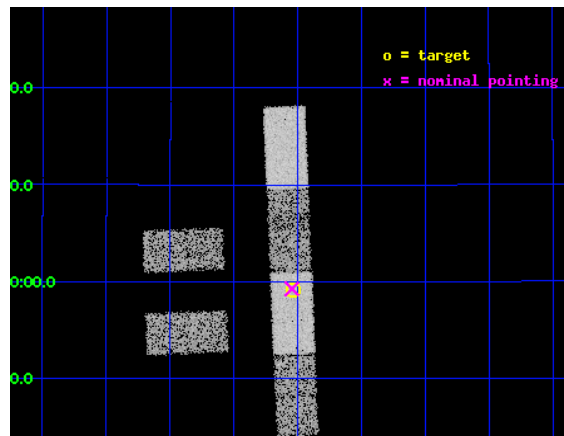
L2 Processing Date : Mar 18 2012

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# 1 Front

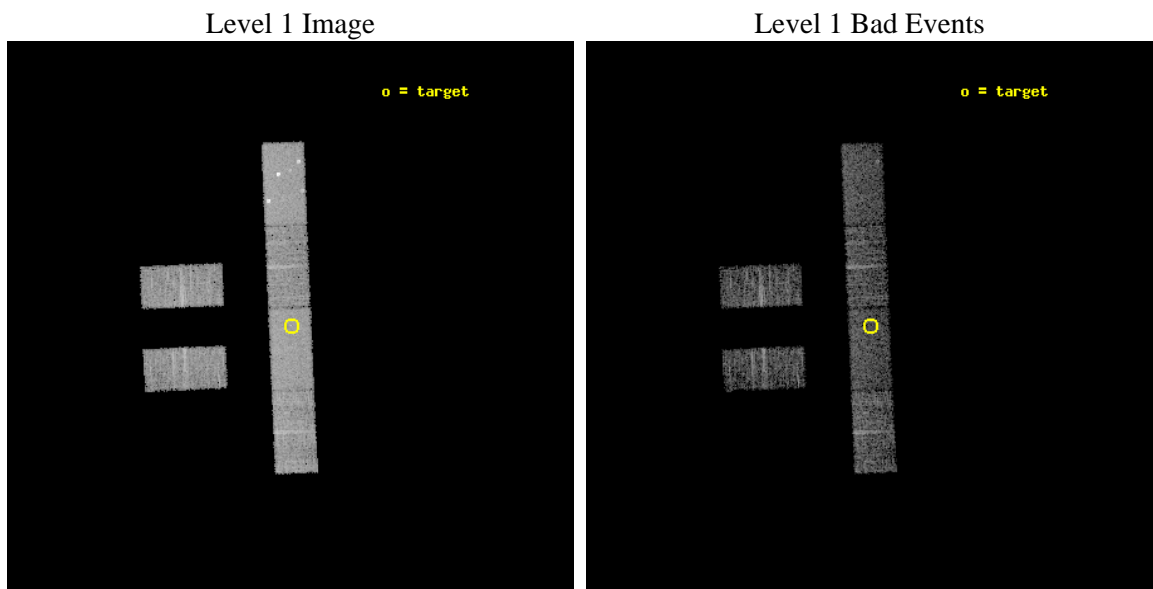
seq_num	701247	Sequence number
obs_id	6829	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SDSS J0735+2659	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.759583	Observer's specified target RA [deg]
dec_targ	26.9865	Observer's specified target Dec [deg]
ra_nom	113.76146187316	Nominal RA [deg]
dec_nom	26.98767602272	Nominal Dec [deg]
roll_nom	87.544698850031	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4073.4000269771	Sum of GTIs [s]
livetime	3982.5968194926	Livetime [s]
ontime2	4073.4000269771	Sum of GTIs [s]
ontime3	4073.4000269771	Sum of GTIs [s]
ontime5	4073.4000269771	Sum of GTIs [s]
ontime6	4073.4000269771	Sum of GTIs [s]
ontime7	4073.4000269771	Sum of GTIs [s]
ontime8	4073.4000269771	Sum of GTIs [s]
l2events	38382	Number of level 2 events



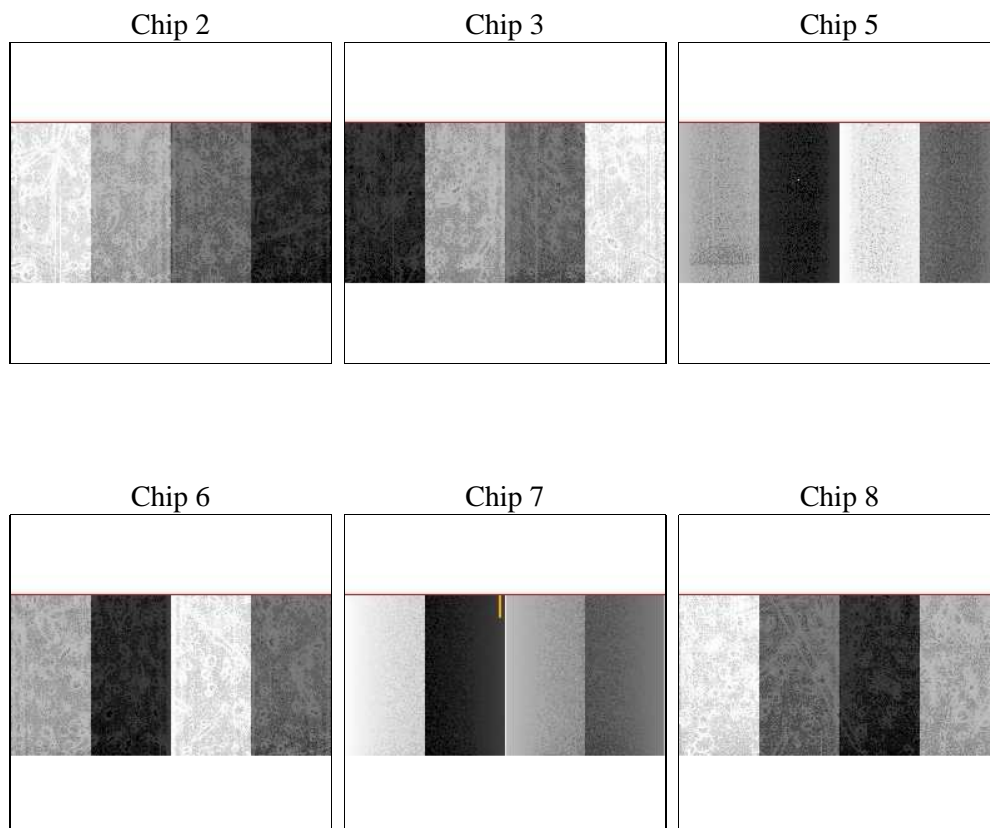
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3889.065000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4073.4000269771	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	4073.4000269771	Sum of GTIs [s]
date	2012-03-18T08:38:47	Date and time of file creation	ontime3	4073.4000269771	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4073.4000269771	Sum of GTIs [s]
			ontime6	4073.4000269771	Sum of GTIs [s]
			ontime7	4073.4000269771	Sum of GTIs [s]
			ontime8	4073.4000269771	Sum of GTIs [s]
			l1events	150735	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	21963	20106	34225	19888	27869	26684	grade 0 events	2168	2028	5306	1882	1322	2908
rejected events	18297	16546	16256	16386	15542	20186		9%	10%	15%	9%	4%	10%
rejected %	83%	82%	47%	82%	55%	75%	grade 1 events	16	10	37	6	31	20
								0%	0%	0%	0%	0%	0%
							grade 2 events	615	615	5117	642	2598	1474
								2%	3%	14%	3%	9%	5%
							grade 3 events	323	322	743	315	1202	614
								1%	1%	2%	1%	4%	2%
							grade 4 events	303	304	691	293	1141	610
								1%	1%	2%	1%	4%	2%
							grade 5 events	699	863	2307	833	2461	1110
								3%	4%	6%	4%	8%	4%
							grade 6 events	481	507	7414	604	6986	1568
								2%	2%	21%	3%	25%	5%
							grade 7 events	17358	15457	12610	15313	12128	18380
								79%	76%	36%	76%	43%	68%

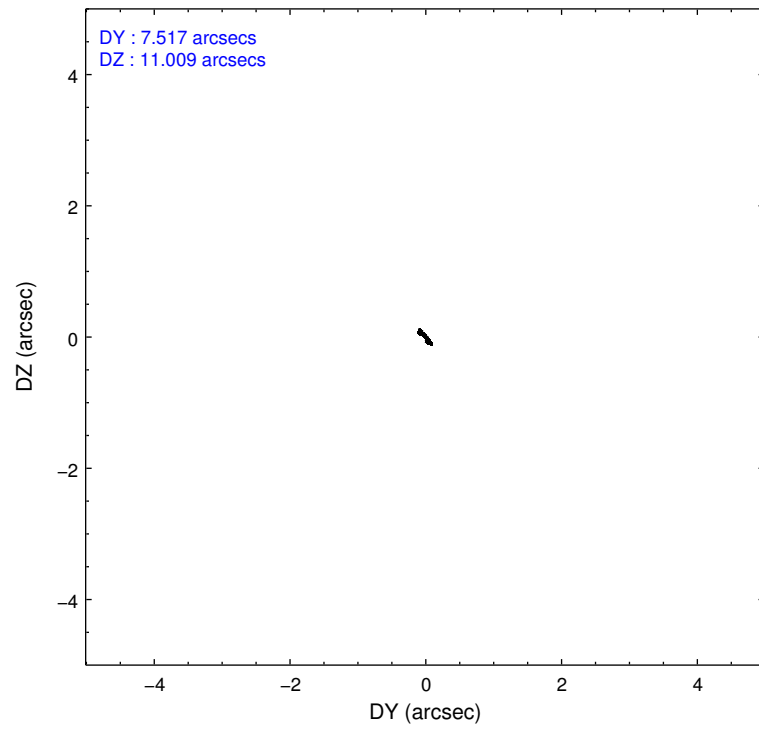
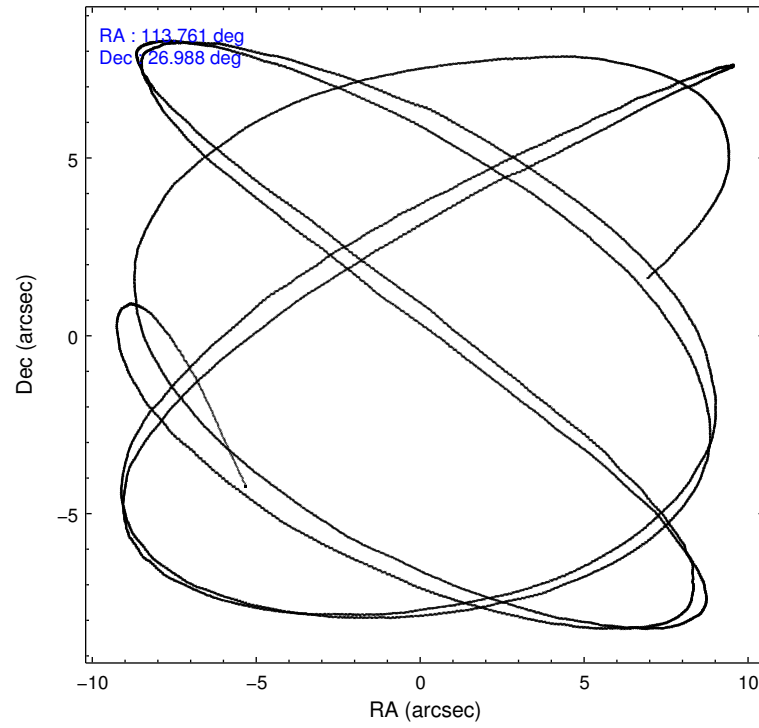


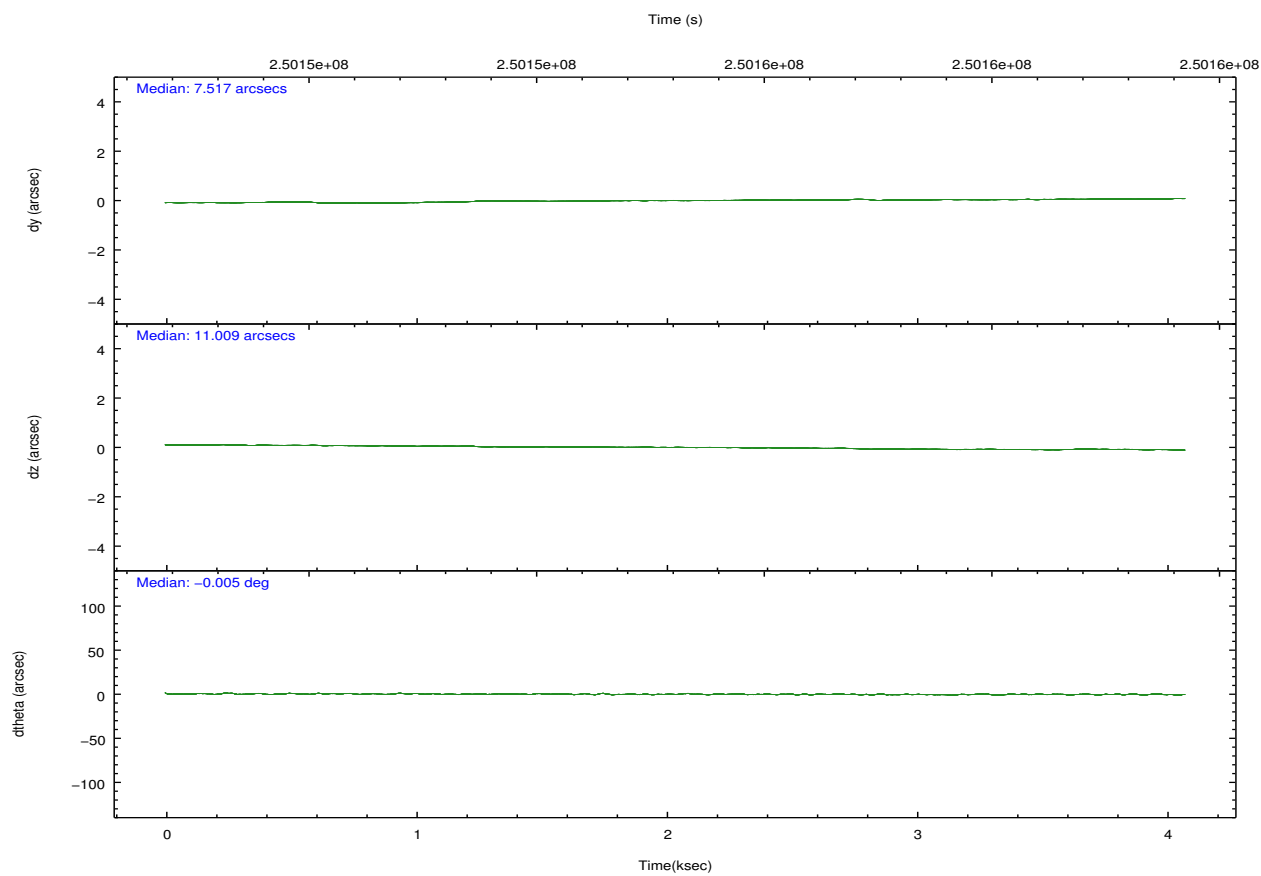
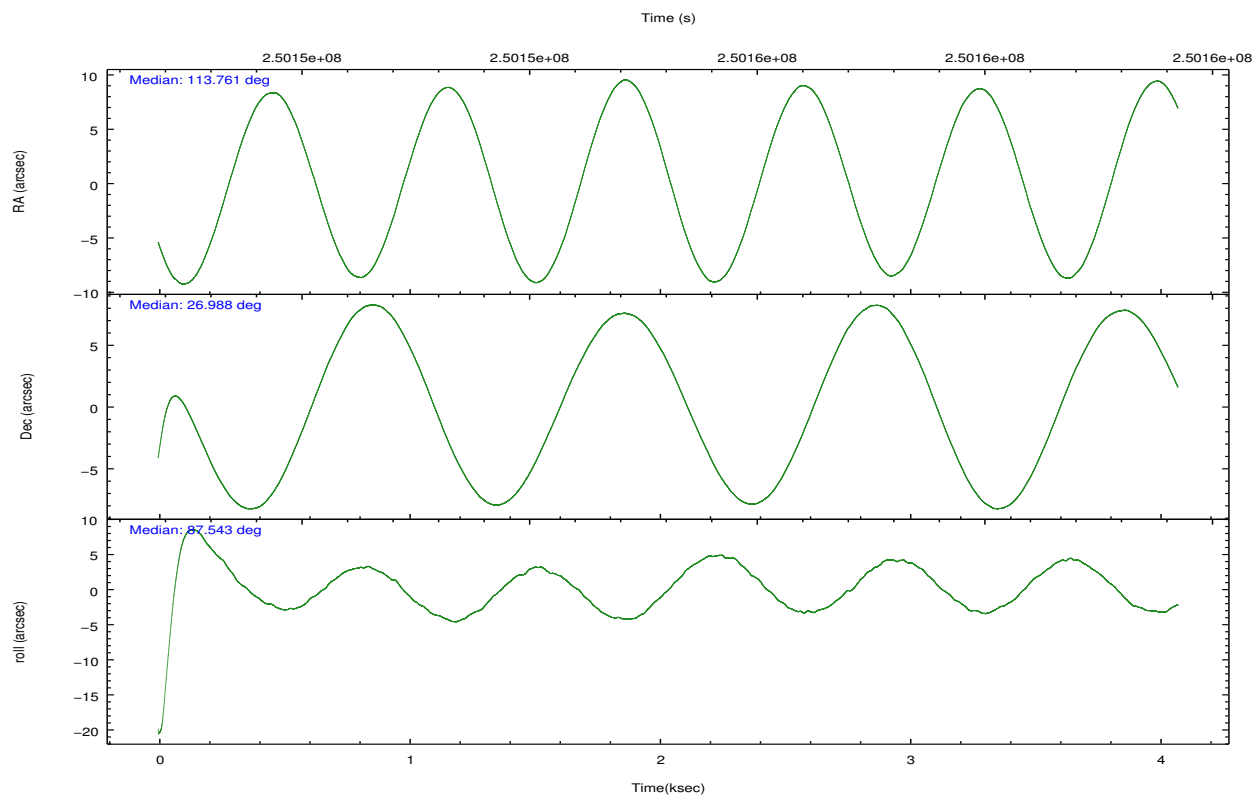
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	113.776012	113.7614618731594
[deg] Pointing Dec	26.963692	26.98767602271952
[deg] Pointing Roll	87.381551	87.54469885003125
[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)	250152755.184000	250151744.1966
Observation start date	2005-12-05T06:51:31	2005-12-05T06:35:44
[s] Observation end time (MET)	250156645.184000	250156871.24683
Observation end date	2005-12-05T07:56:21	2005-12-05T08:01:11
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
Subarray start row	257	257
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.8

## 2.3 Aspect



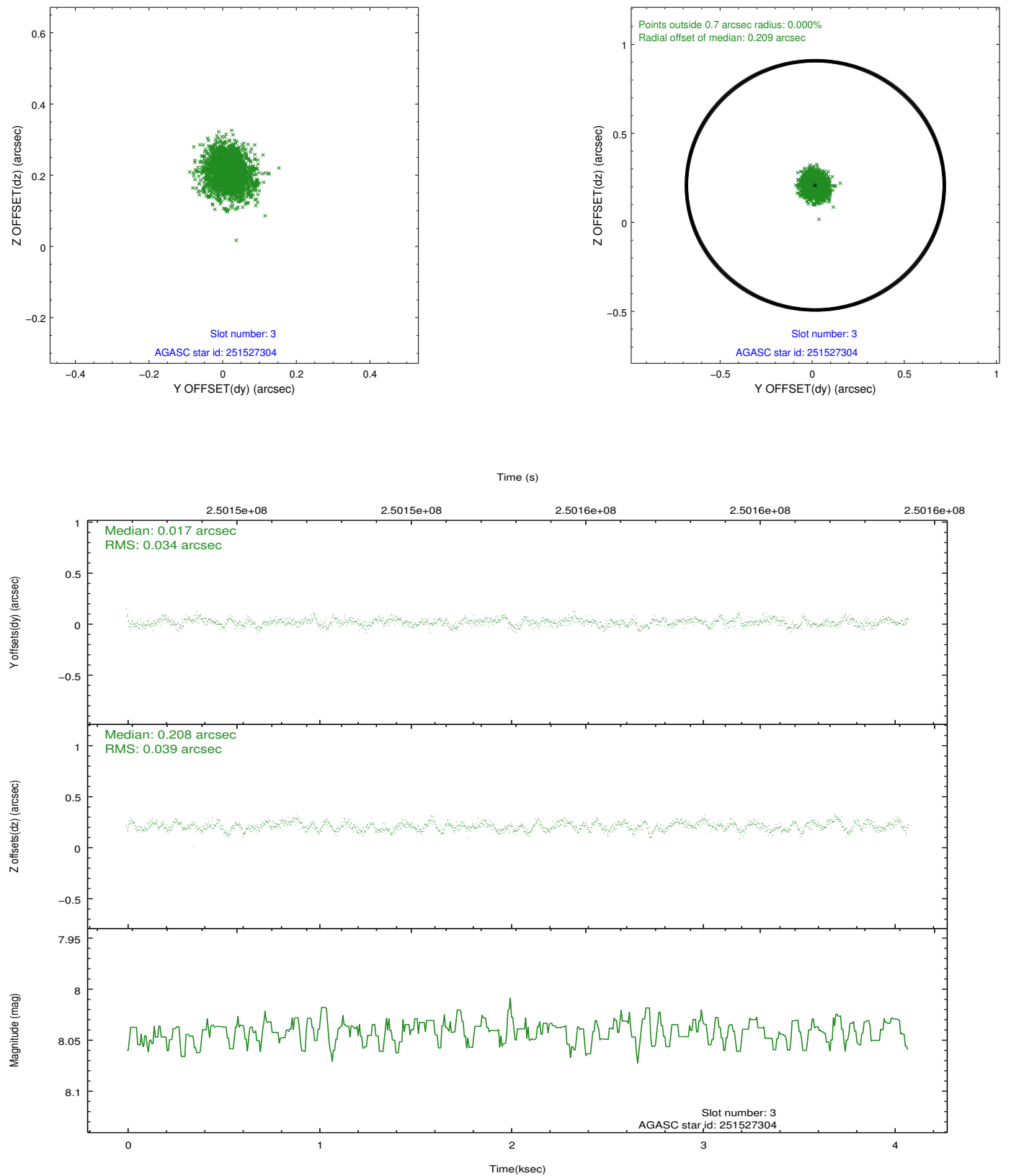


### Slot Statistics

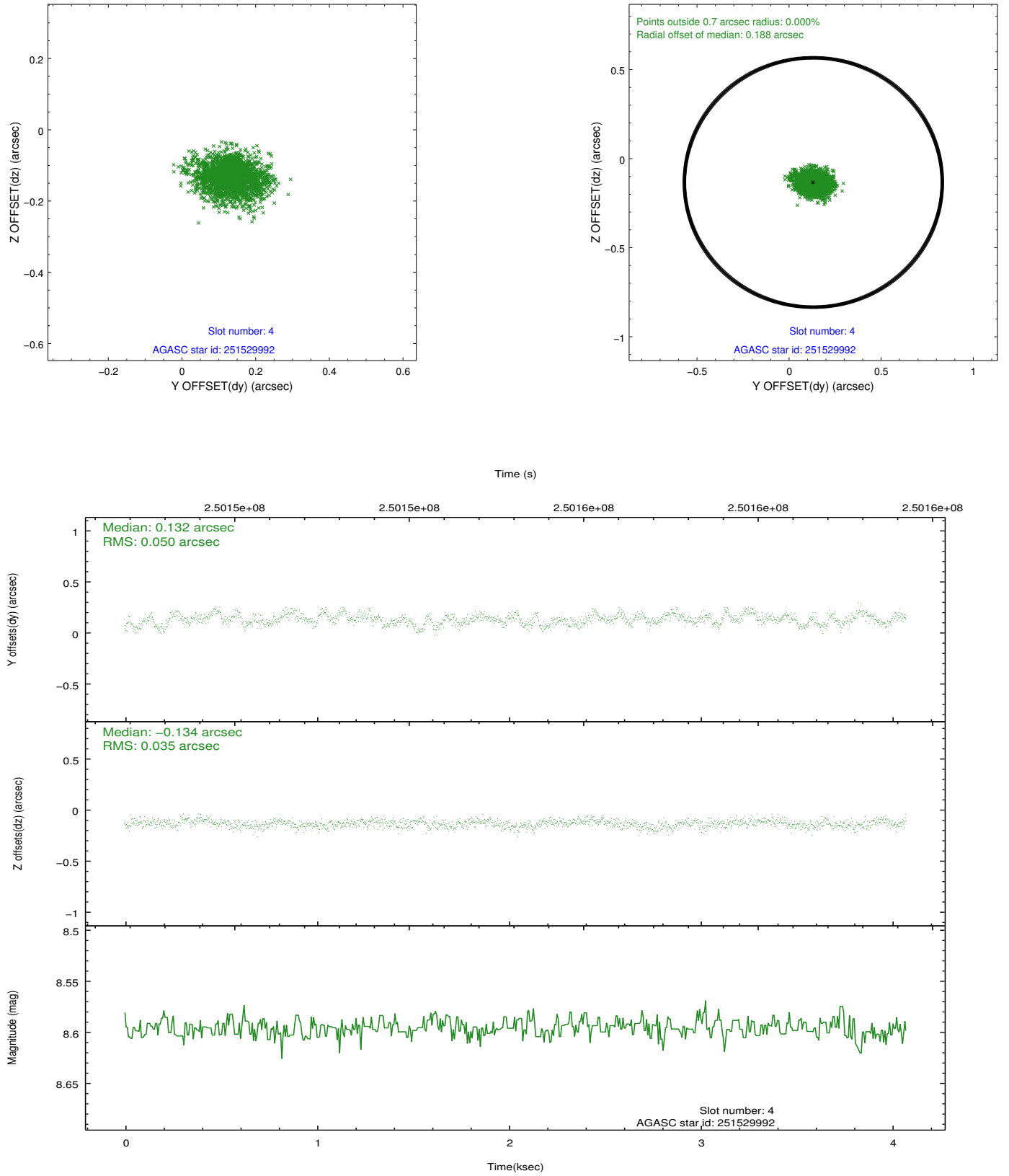
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	994	-0.039	-0.011	0.006	0.011	0.000000	0.000000	-760.28	-1732.25
1	FID	ACIS-S-4	7.21	994	0.090	0.022	0.006	0.011	0.000000	0.000000	2152.40	174.74
2	FID	ACIS-S-5	7.23	995	-0.082	-0.003	0.007	0.012	0.000000	0.000000	-1811.23	170.05
3	GUIDE	251527304	8.04	1989	0.017	0.208	0.056	0.087	113.838110	26.602308	-1290.40	-259.06
4	GUIDE	251529992	8.60	1988	0.132	-0.134	0.065	0.107	113.241412	26.496024	-1757.51	1643.49
5	GUIDE	251538528	8.02	1989	-0.192	0.141	0.046	0.076	113.912932	27.204603	885.60	-397.42
6	GUIDE	251538264	8.65	1989	-0.037	-0.040	0.061	0.099	113.197945	27.650130	2388.88	1954.47
7	GUIDE	251530264	8.25	1987	0.078	-0.176	0.058	0.093	113.321200	26.459873	-1875.03	1382.27

## 2.4 Star Slots

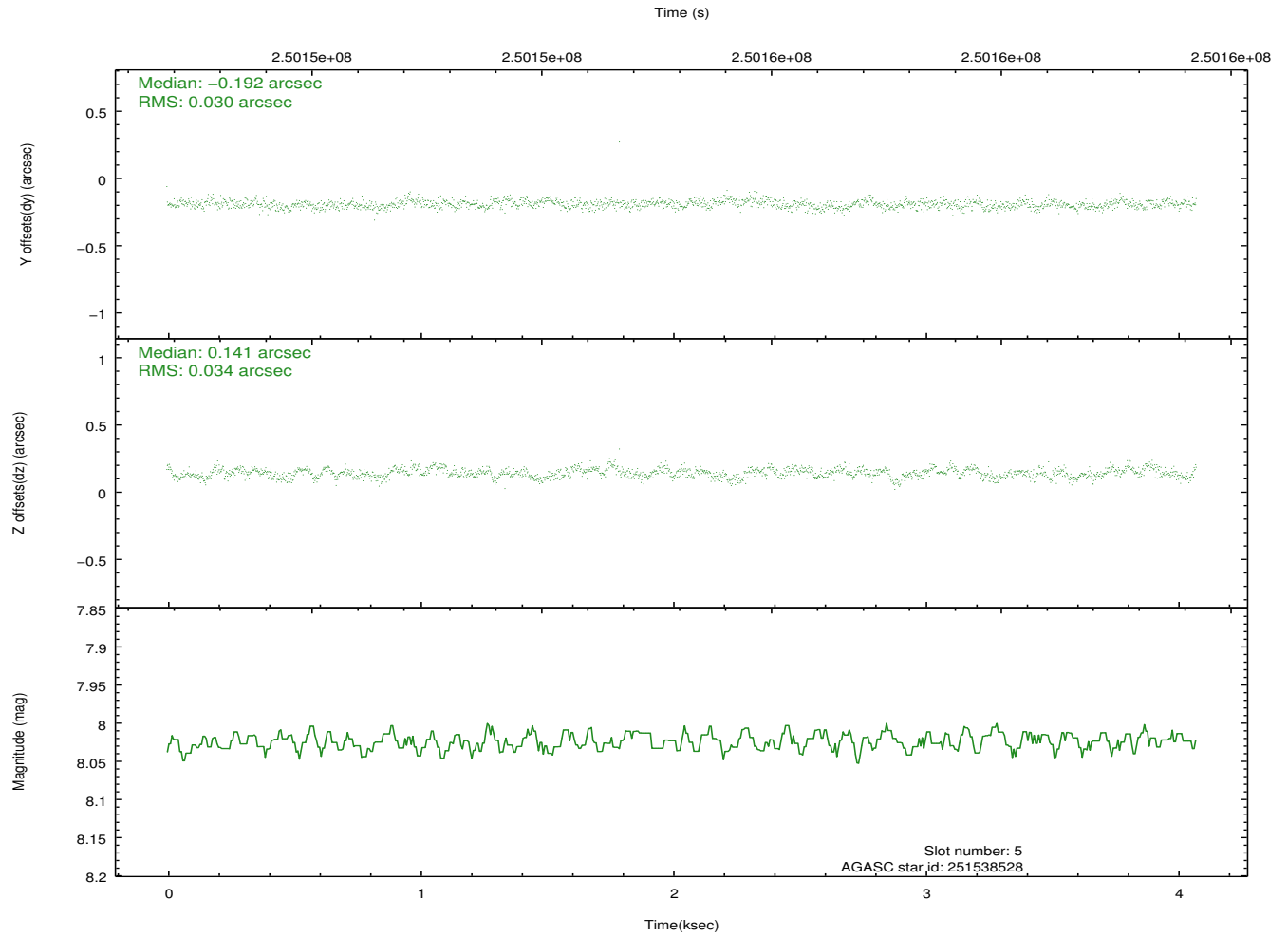
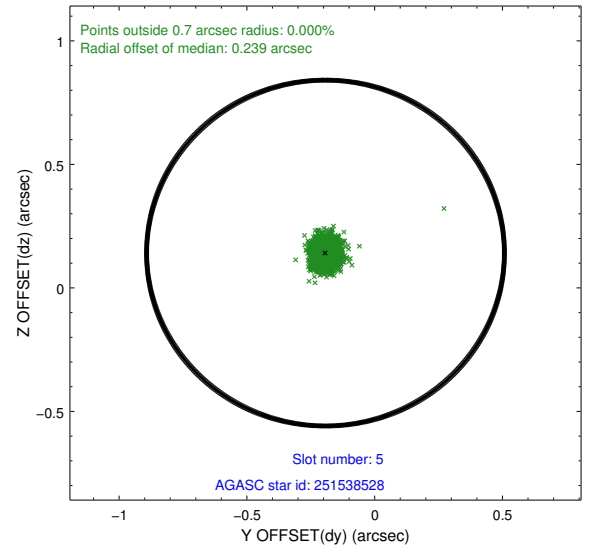
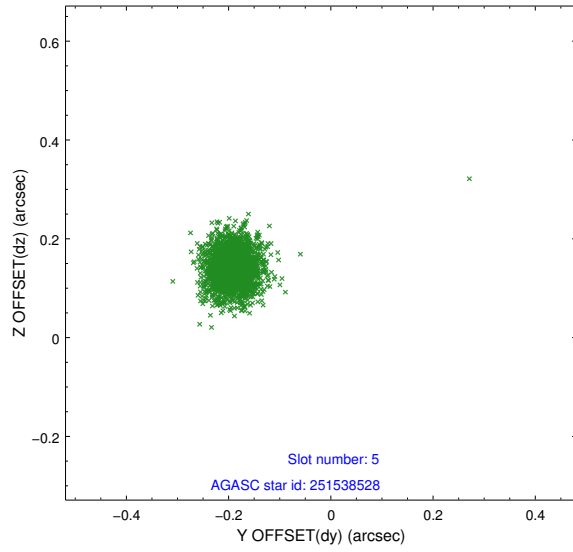
### 2.4.1 Slot 3



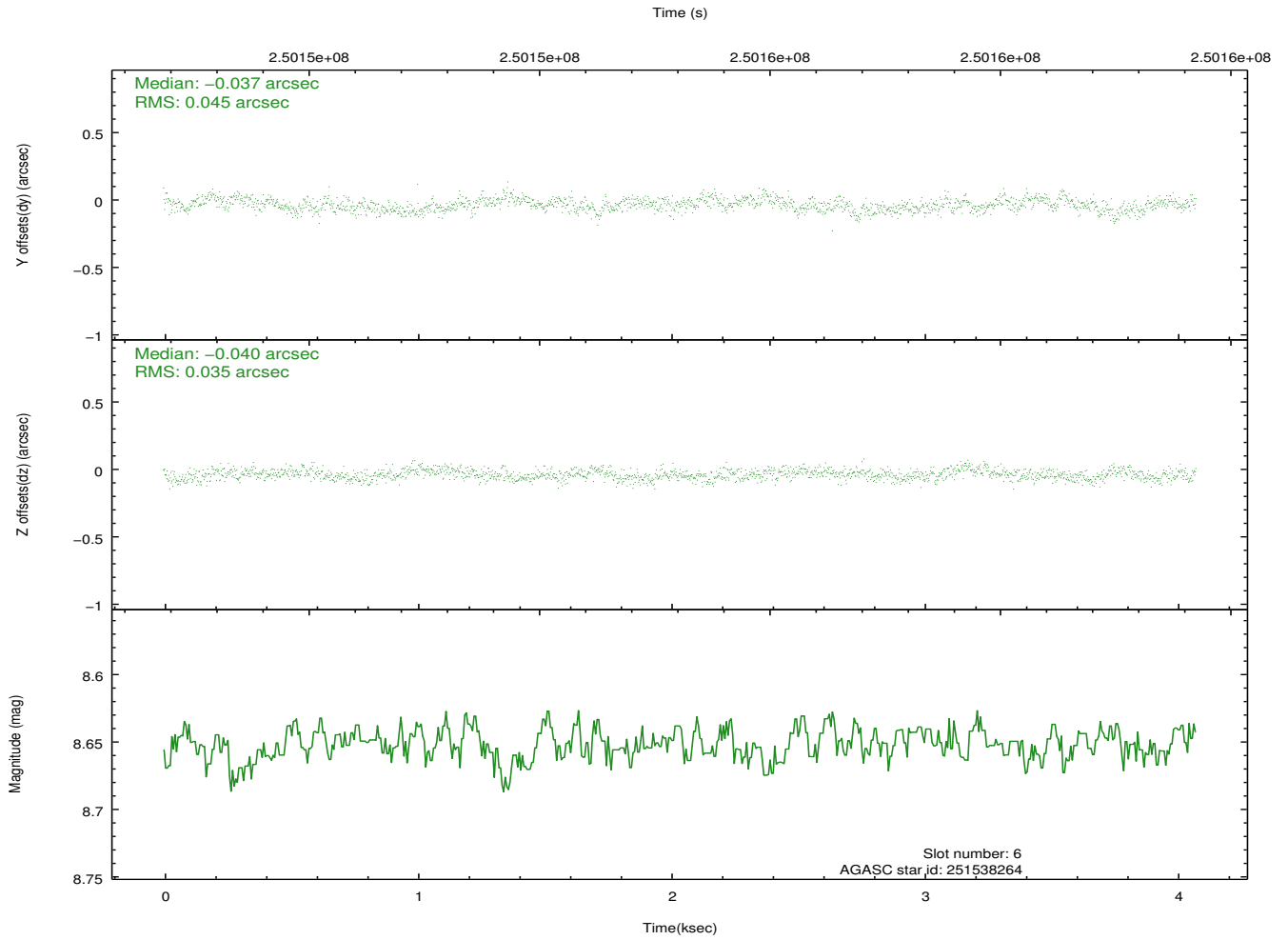
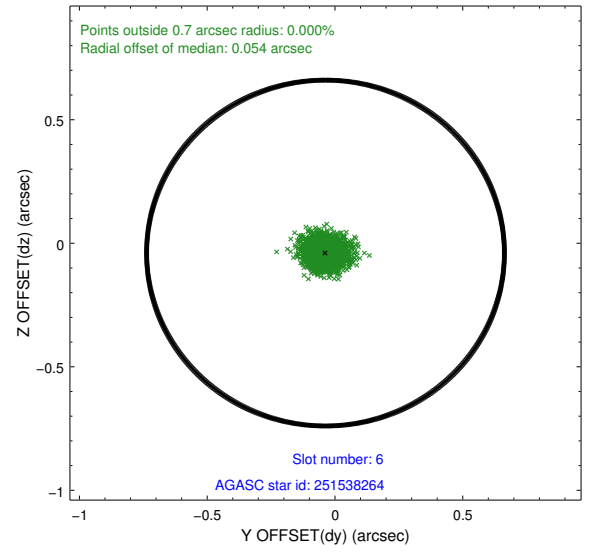
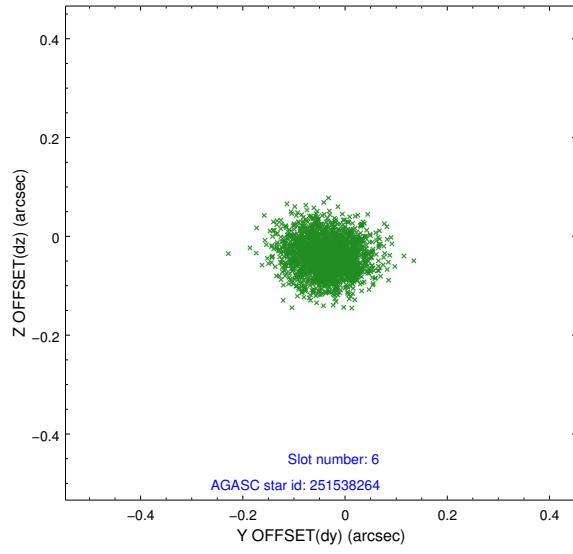
## 2.4.2 Slot 4



### 2.4.3 Slot 5

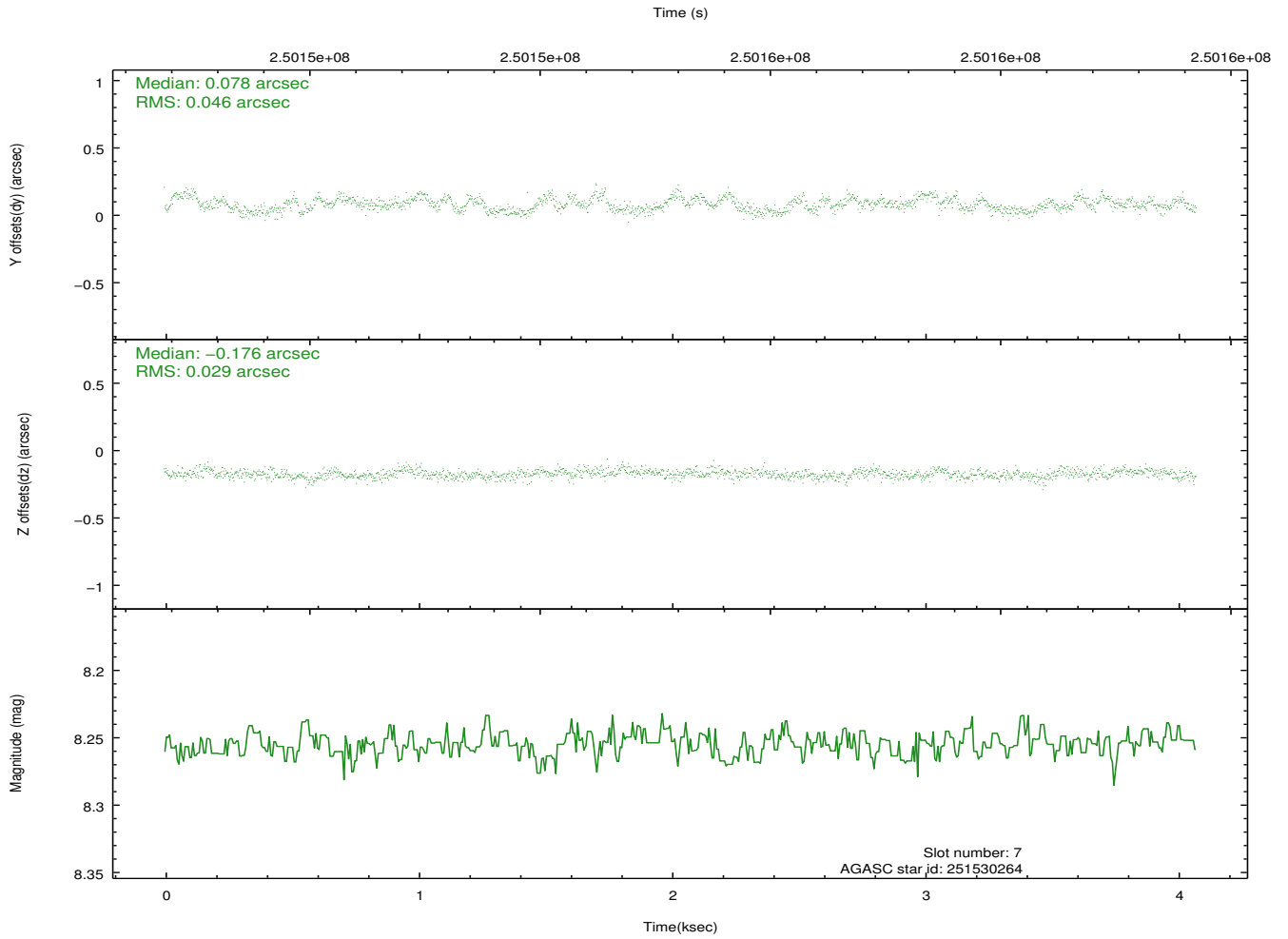
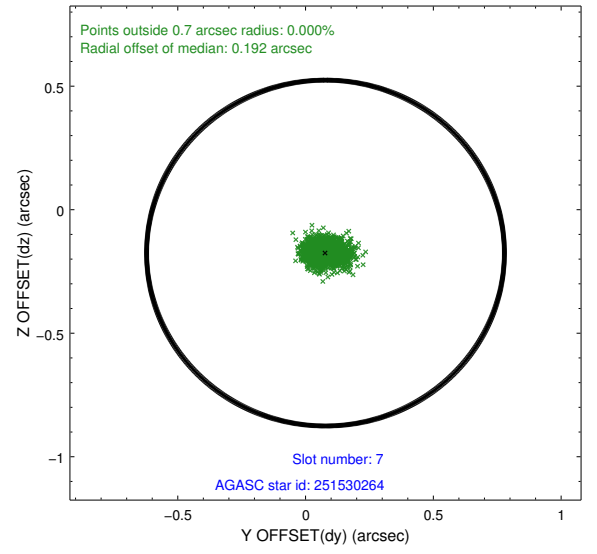
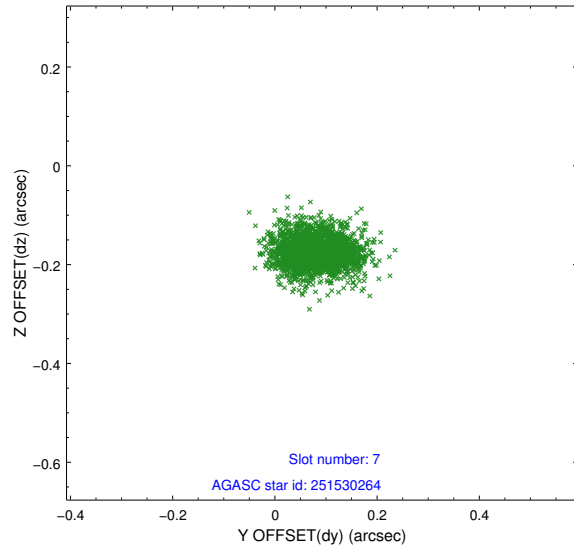


## 2.4.4 Slot 6



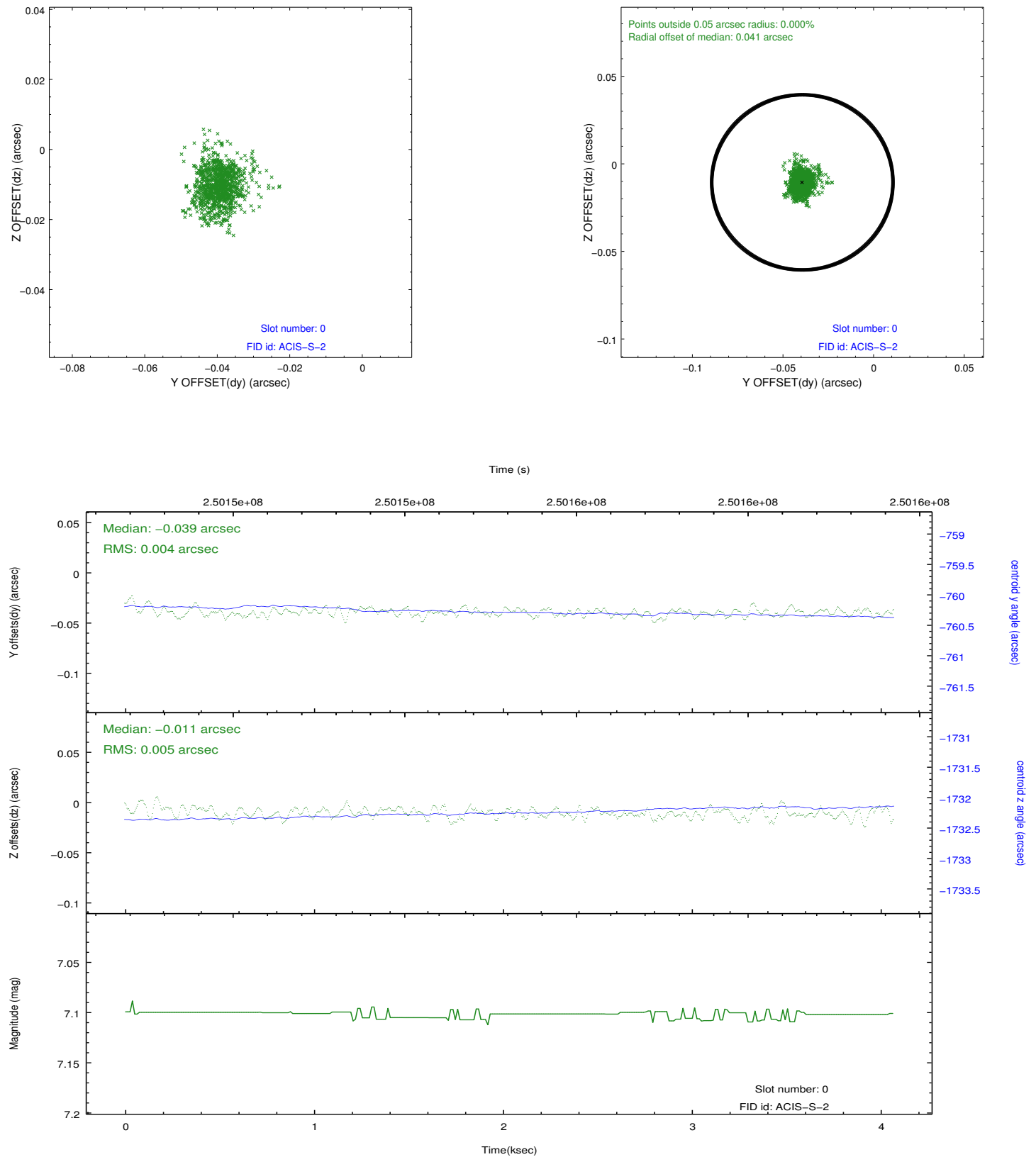


## 2.4.5 Slot 7

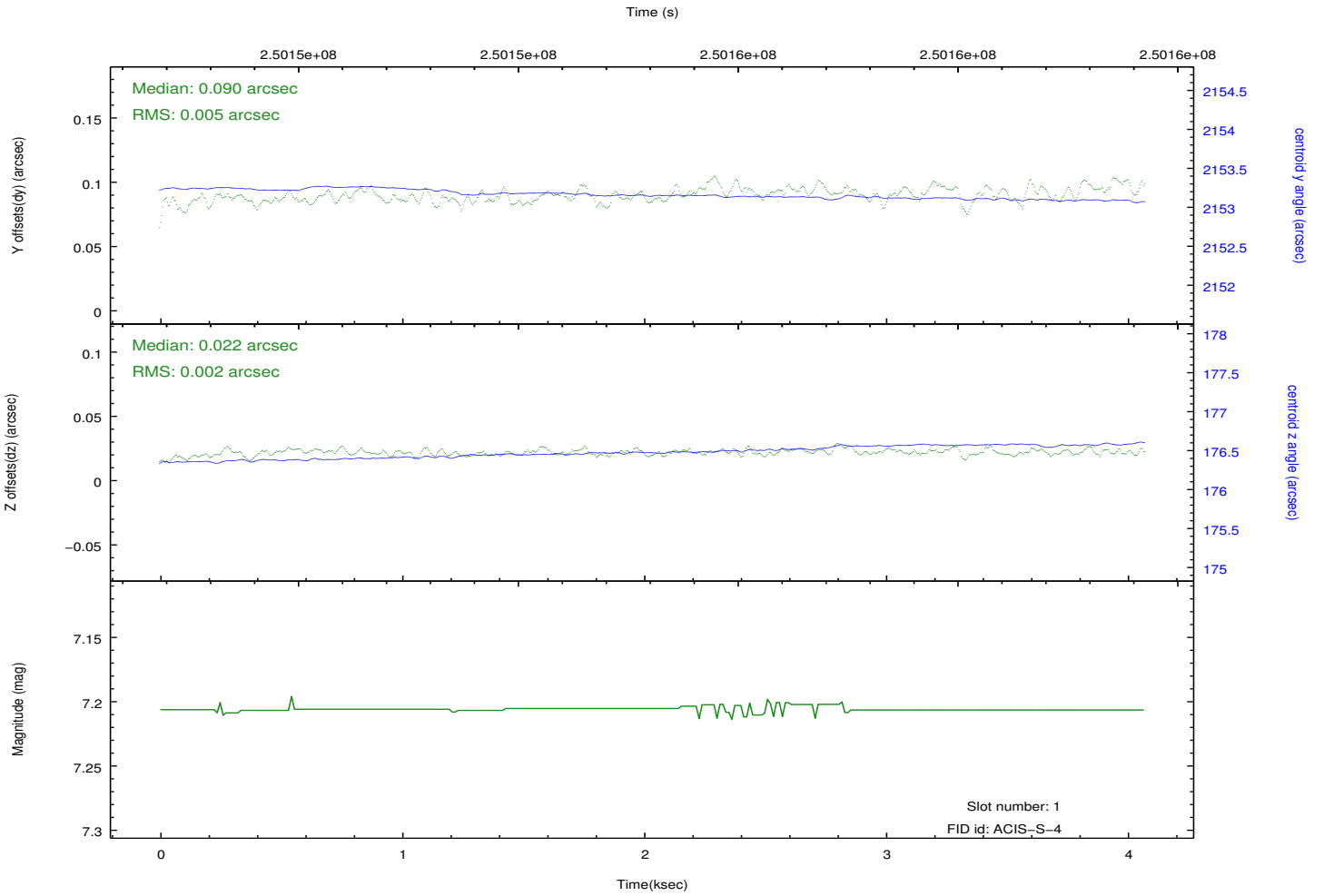
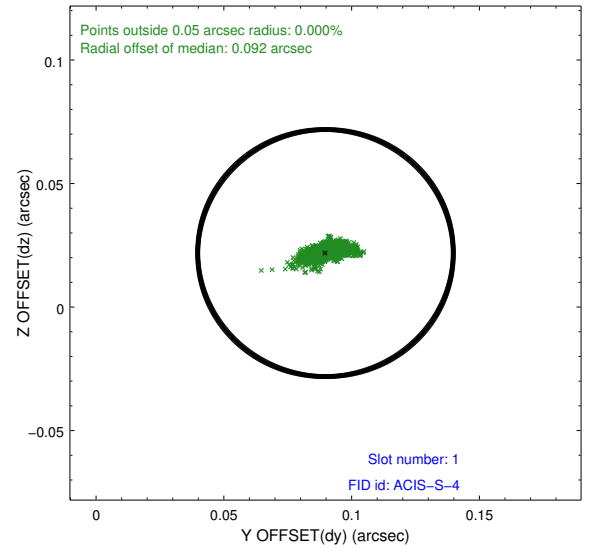
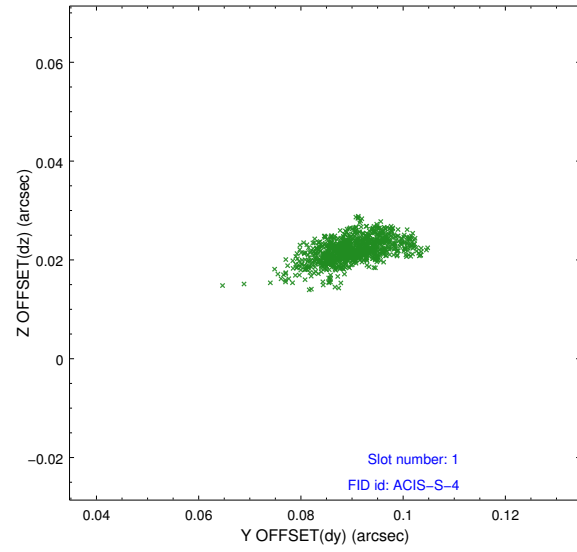


## 2.5 FID Slots

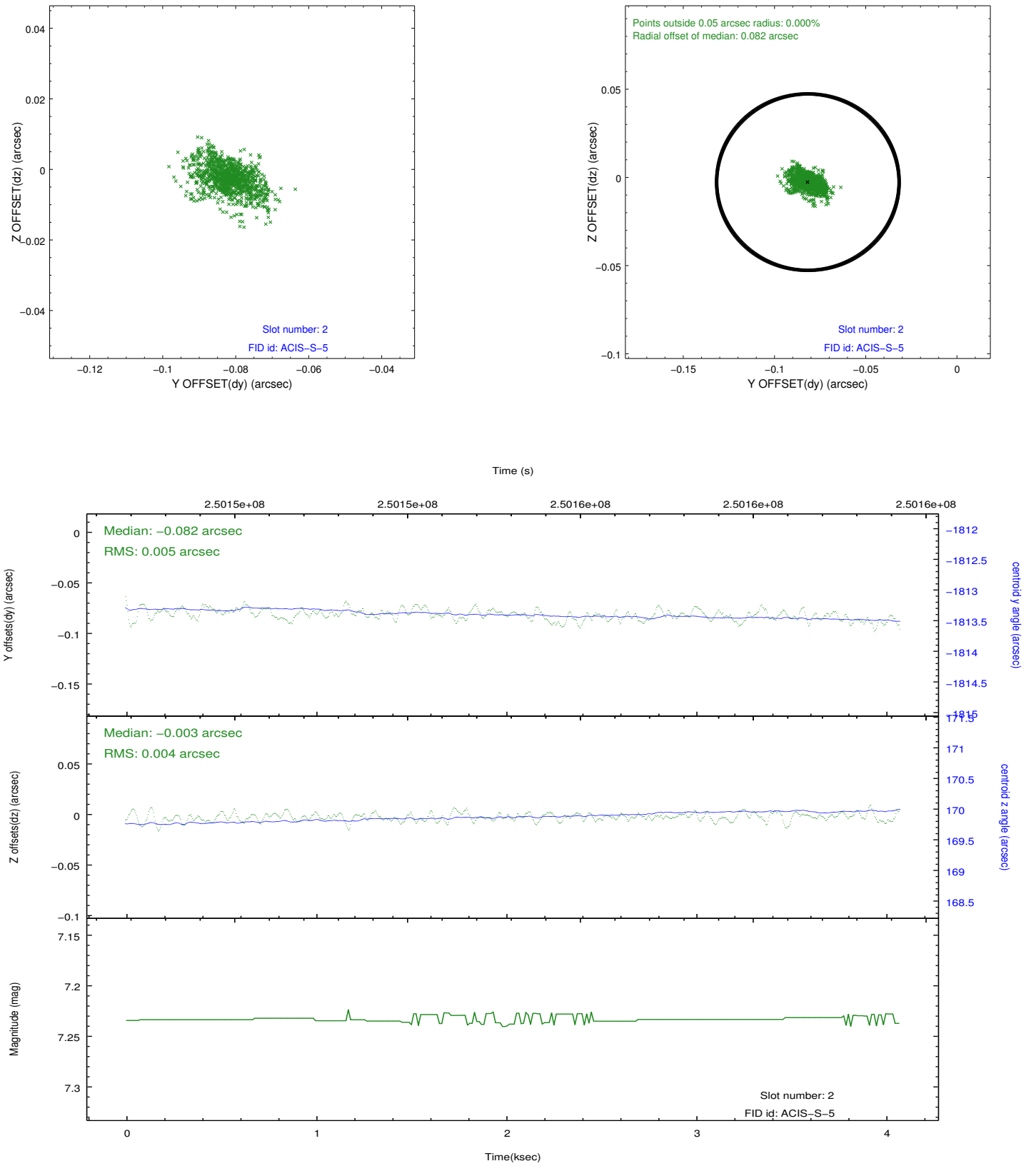
### 2.5.1 Slot 0



## 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)	2012.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0734

### **A.2 Comments**