

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3152 - L2 Version 3  
Chandra X-Ray Center

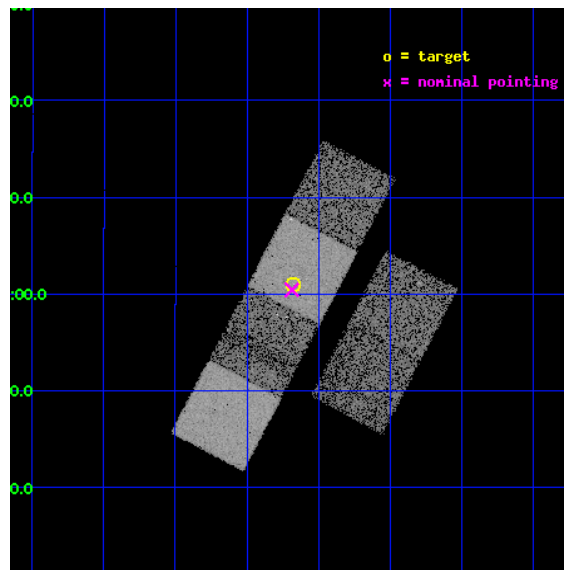
L2 Processing Date : Sep 28 2012

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# 1 Front

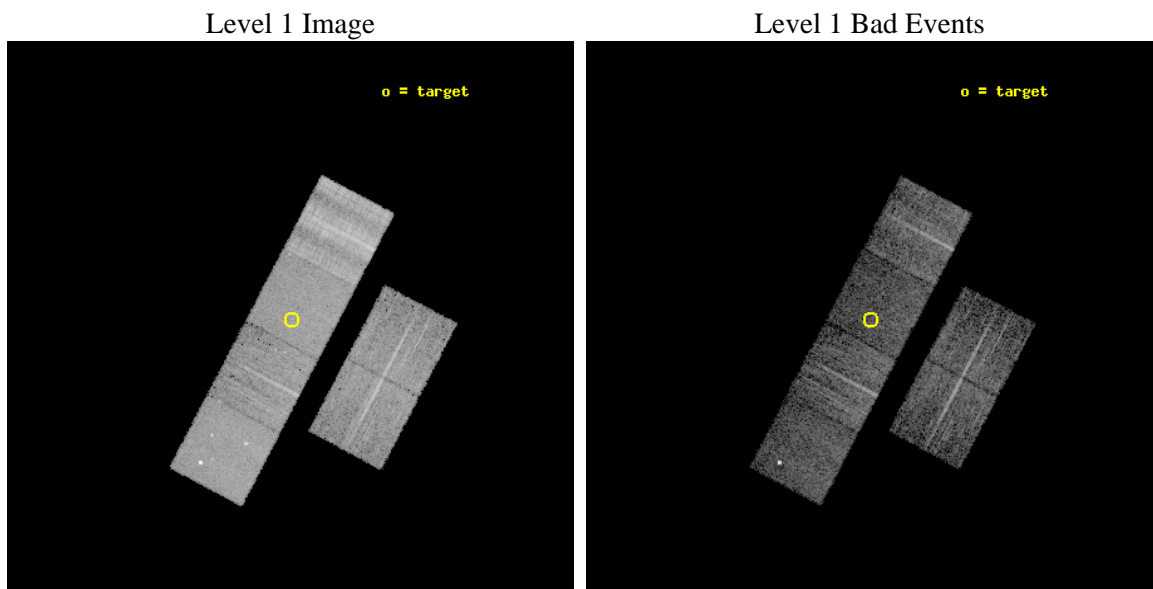
seq_num	700591	Sequence number
obs_id	3152	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z > 4$	Proposal ti
observer	Professor Gordon Garmire	Principal investigator
object	PSS0133+0400	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.418333	Observer's specified target RA [deg]
dec_targ	4.016389	Observer's specified target Dec [deg]
ra_nom	23.421232411066	Nominal RA [deg]
dec_nom	4.0071411306866	Nominal Dec [deg]
roll_nom	297.726279585	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6153.6000057161	Sum of GTIs [s]
livetime	6075.6794171906	Livetime [s]
ontime2	6153.6000057161	Sum of GTIs [s]
ontime3	6153.6000057161	Sum of GTIs [s]
ontime5	6153.6000057161	Sum of GTIs [s]
ontime6	6153.6000057161	Sum of GTIs [s]
ontime7	6153.6000057161	Sum of GTIs [s]
ontime8	6153.6000057161	Sum of GTIs [s]
l2events	79204	Number of level 2 events



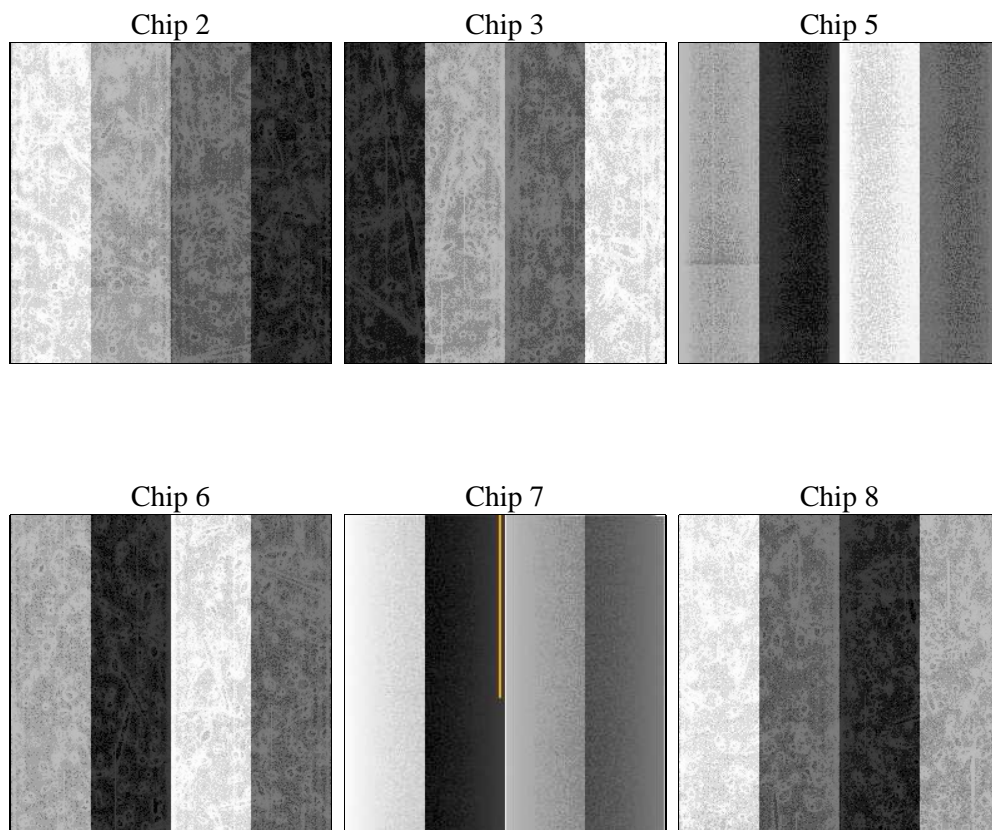
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6153.6000057161	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	6153.6000057161	Sum of GTIs [s]
date	2012-09-28T05:01:00	Date and time of file creation	ontime3	6153.6000057161	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6153.6000057161	Sum of GTIs [s]
			ontime6	6153.6000057161	Sum of GTIs [s]
			ontime7	6153.6000057161	Sum of GTIs [s]
			ontime8	6153.6000057161	Sum of GTIs [s]
			l1events	607385	Number of level 1 events

### 2.1.4 Events

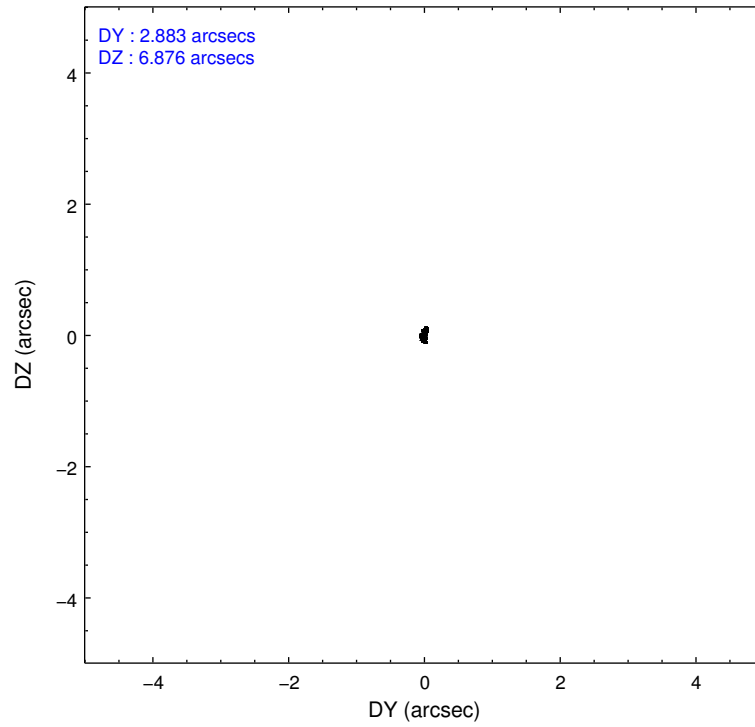
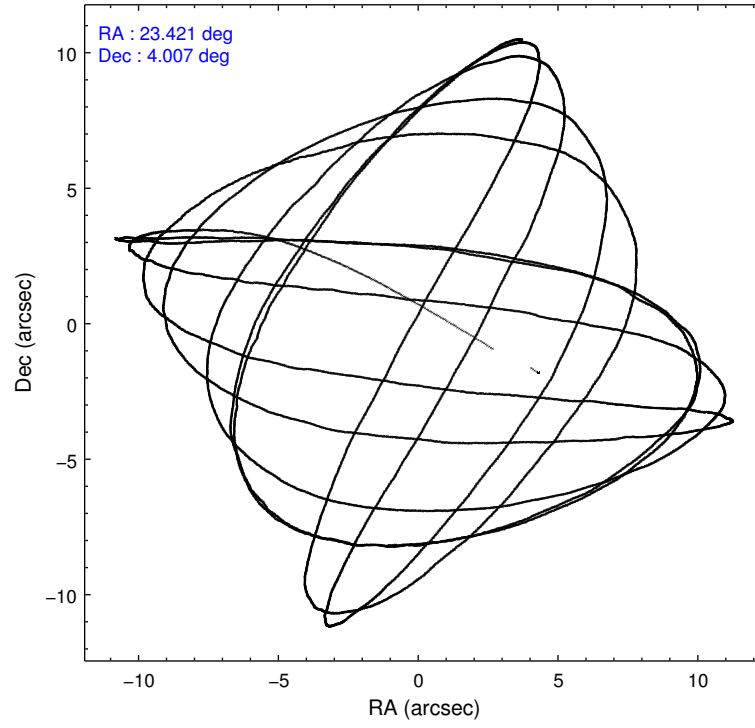
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	75866	76895	126943	81803	120997	124881	grade 0 events	17170	17927	16403	18503	16838	29713
rejected events	68528	70137	96298	73935	94569	82551		22%	23%	12%	22%	13%	23%
rejected %	90%	91%	75%	90%	78%	66%	grade 1 events	106	100	188	96	109	192
								0%	0%	0%	0%	0%	0%
							grade 2 events	6312	6273	28157	6704	17971	11781
								8%	8%	22%	8%	14%	9%
							grade 3 events	2029	2150	4902	2104	8073	8922
								2%	2%	3%	2%	6%	7%
							grade 4 events	2200	2239	4950	2129	8307	8283
								2%	2%	3%	2%	6%	6%
							grade 5 events	1674	1890	6683	2056	6201	2950
								2%	2%	5%	2%	5%	2%
							grade 6 events	4852	4969	29706	5610	32744	13895
								6%	6%	23%	6%	27%	11%
							grade 7 events	41523	41347	35954	44601	30754	49145
								54%	53%	28%	54%	25%	39%

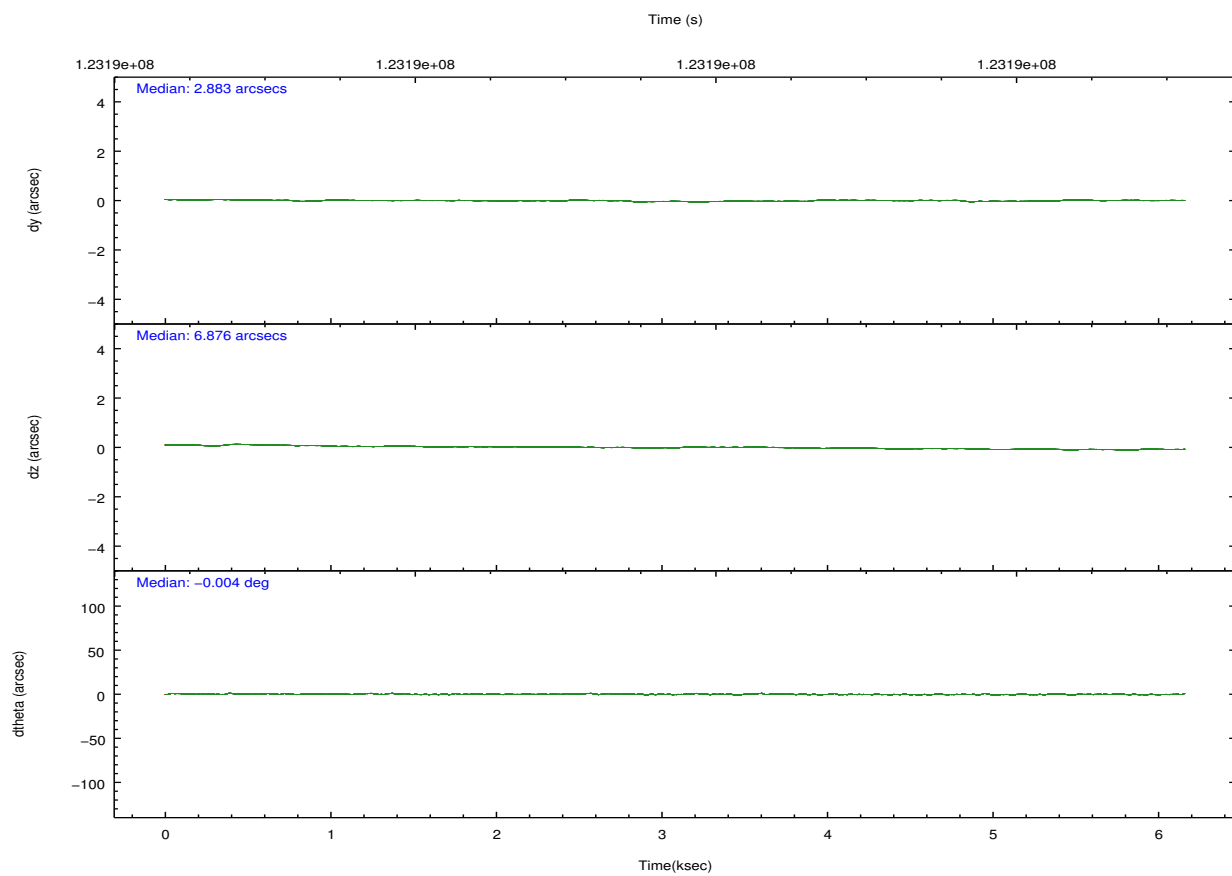
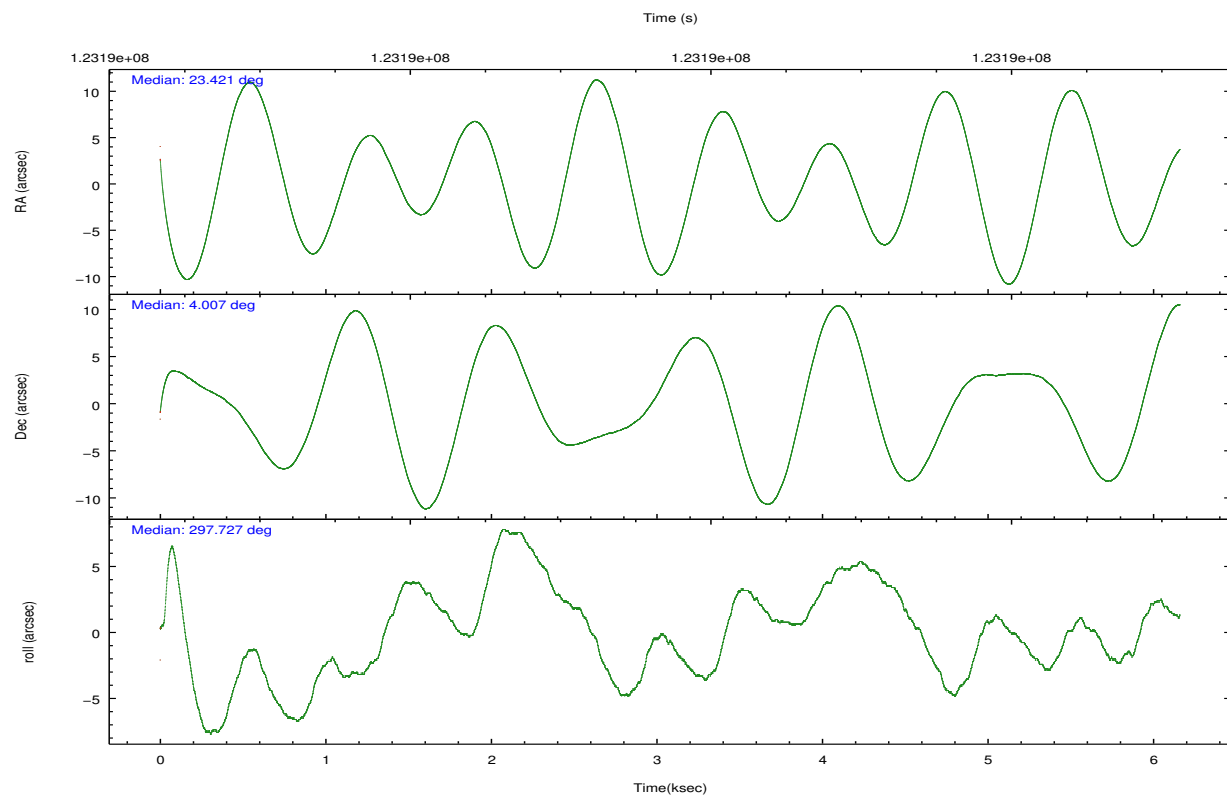


## 2.2 Compared Parameters

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	23.397995	23.42123241106572	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.021401	4.007141130686576	Alternating exposures requested	N	N
[deg] Pointing Roll	297.571290	297.7262795850029	[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)	123188806.184000	123186937.73991			
Observation start date	2001-11-26T19:05:42	2001-11-26T18:35:37			
[s] Observation end time (MET)	123194806.184000	123195339.15274			
Observation end date	2001-11-26T20:45:42	2001-11-26T20:55:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



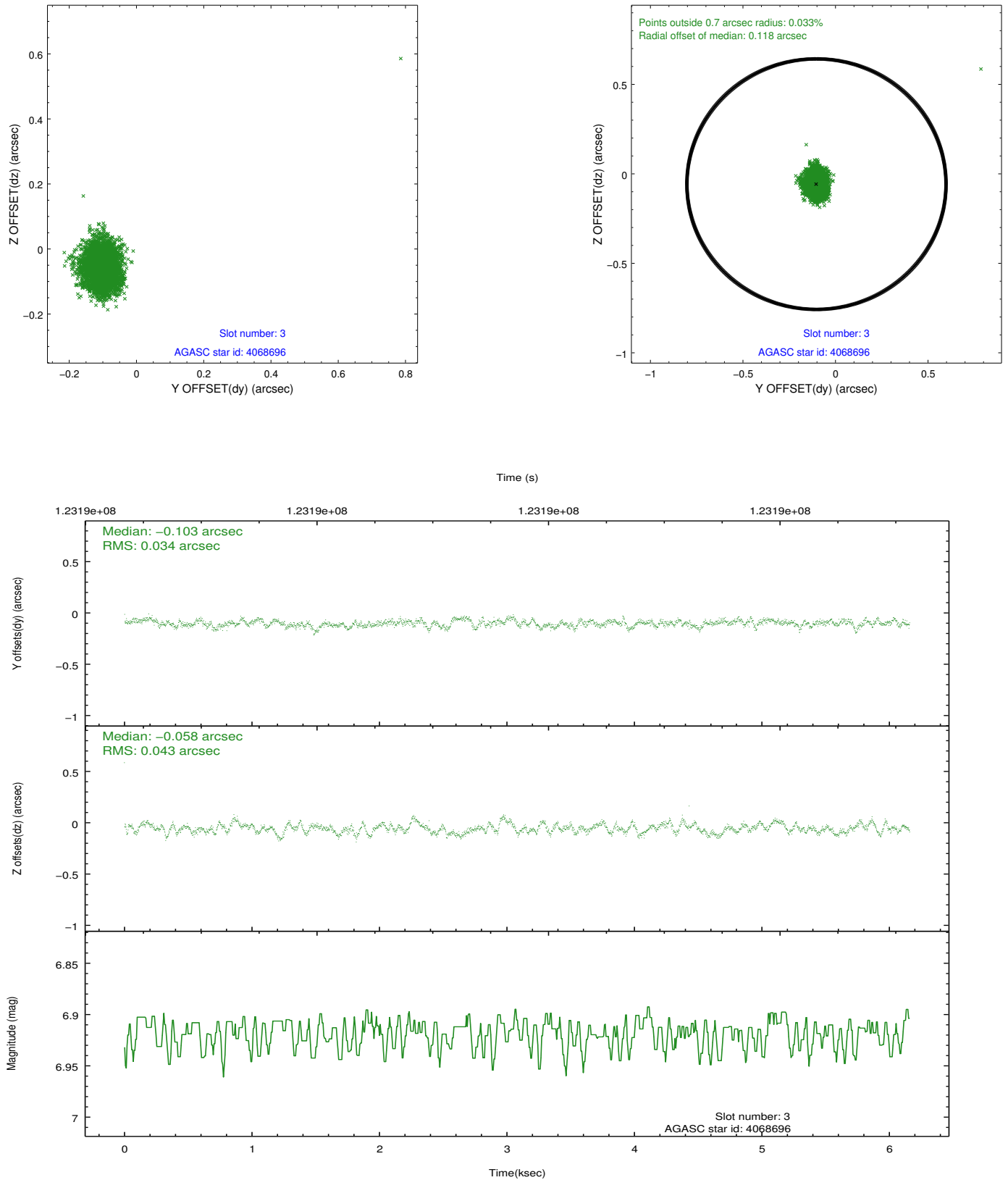


### Slot Statistics

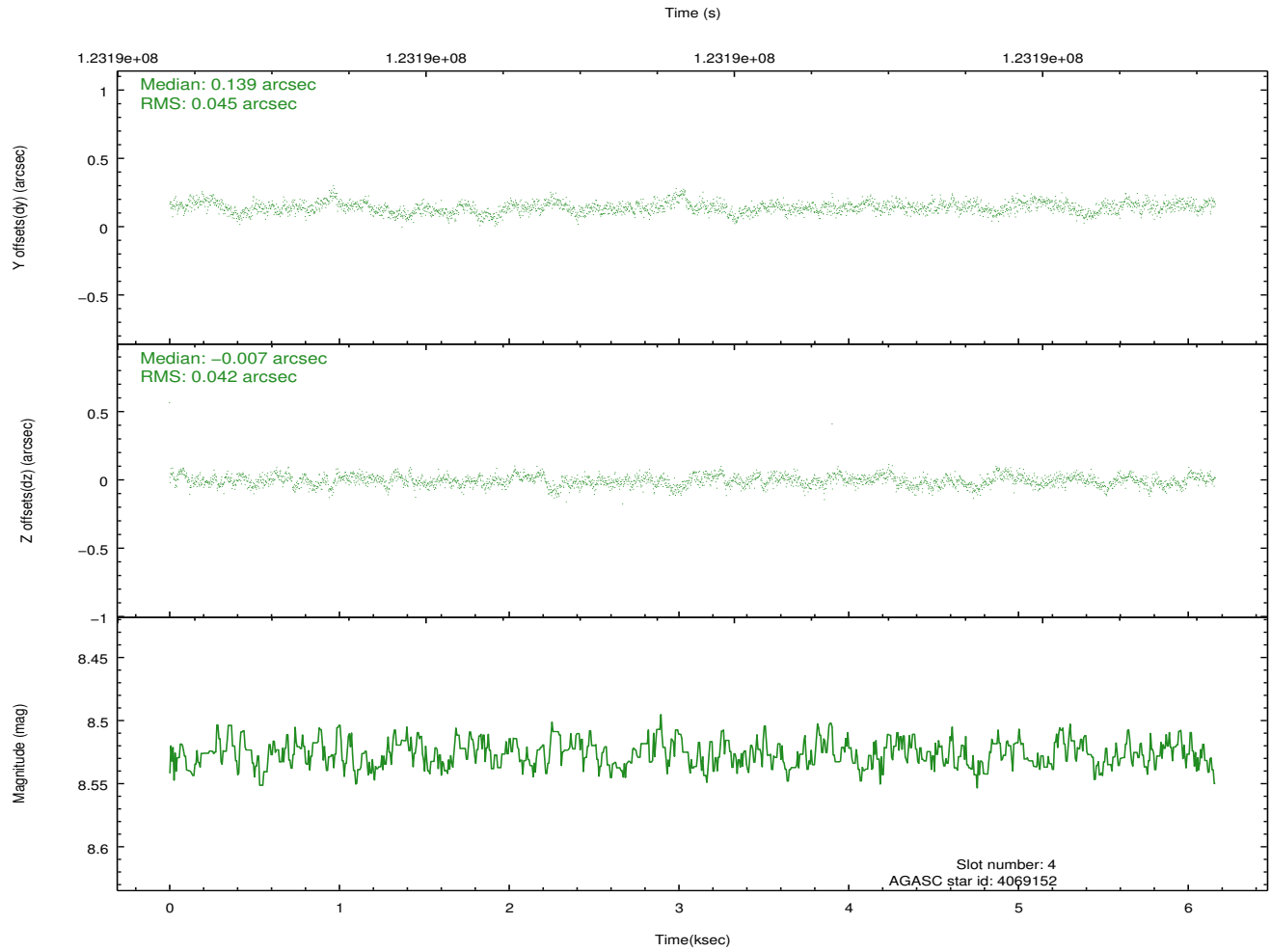
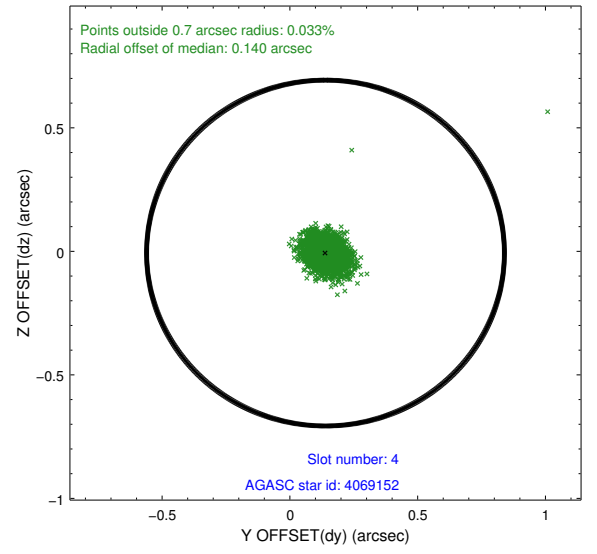
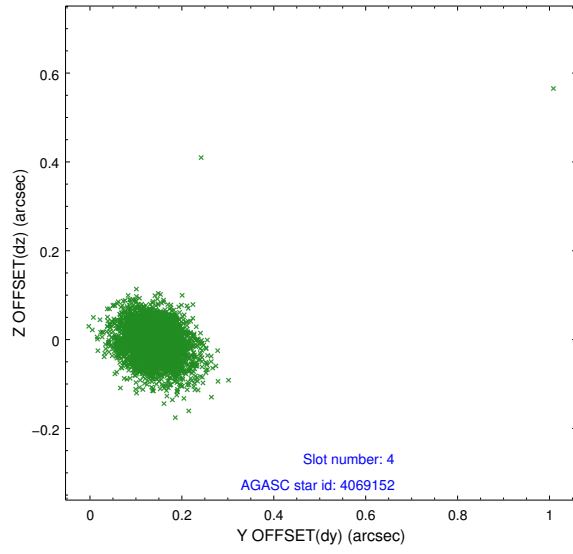
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1503	-0.016	0.017	0.006	0.011	0.000000	0.000000	-755.52	-1728.02
1	FID	ACIS-S-4	7.20	1503	-0.041	0.003	0.006	0.010	0.000000	0.000000	2157.28	179.48
2	FID	ACIS-S-5	7.24	1503	0.025	-0.012	0.006	0.011	0.000000	0.000000	-1807.10	174.20
3	GUIDE	4068696	6.92	3006	-0.103	-0.058	0.055	0.089	23.062241	3.685161	513.34	-1629.95
4	GUIDE	4069152	8.53	3005	0.139	-0.007	0.061	0.102	23.439527	3.772164	863.72	-284.01
5	GUIDE	4072960	9.58	2999	0.003	0.088	0.134	0.219	23.864885	3.550178	2279.01	701.75
6	GUIDE	4069416	9.85	3001	-0.071	0.117	0.121	0.194	23.541357	4.773002	-2160.86	1708.23
7	GUIDE	4068320	9.87	3003	0.036	-0.146	0.107	0.169	22.964610	3.897864	-328.34	-1585.53

## 2.4 Star Slots

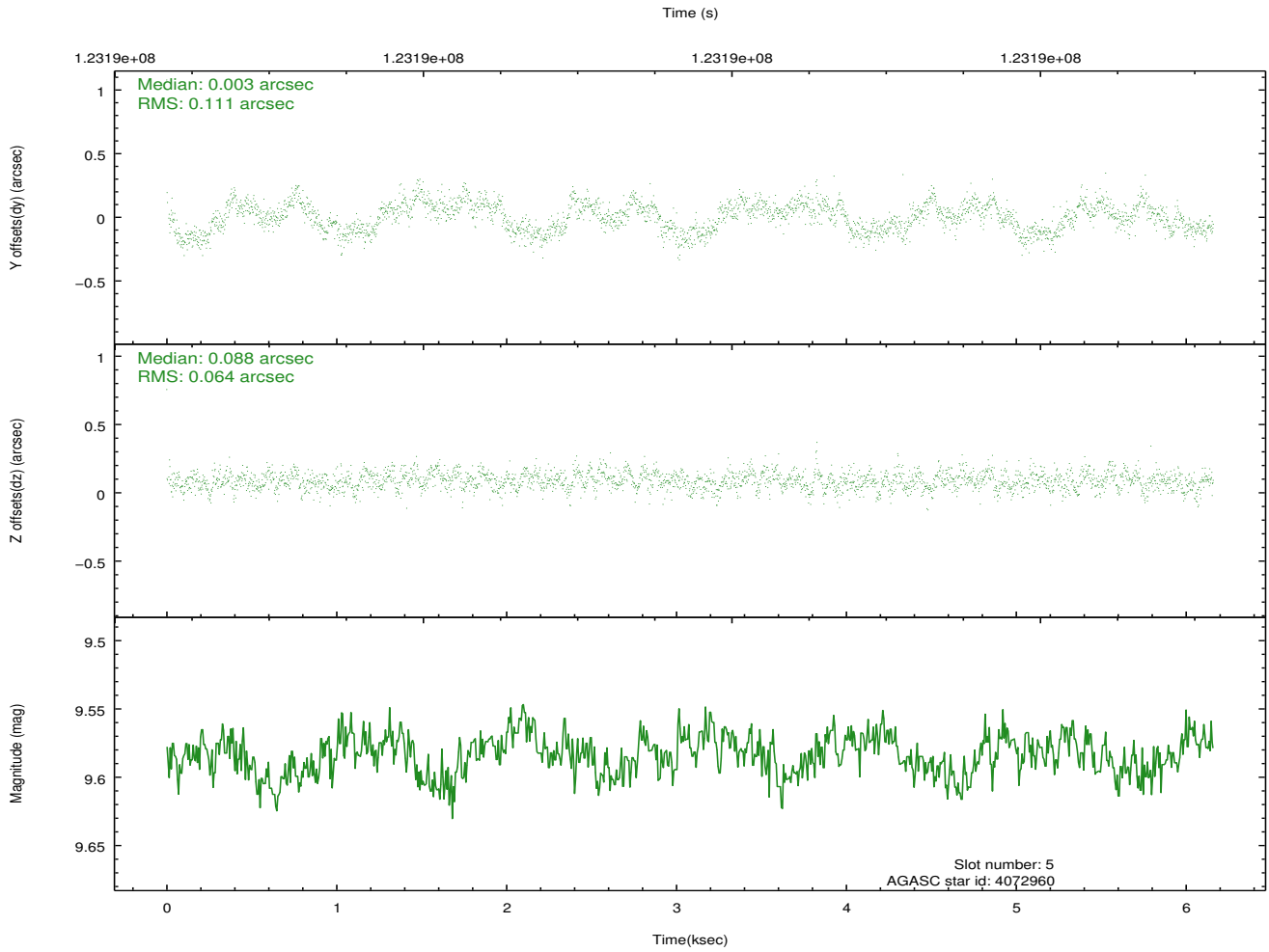
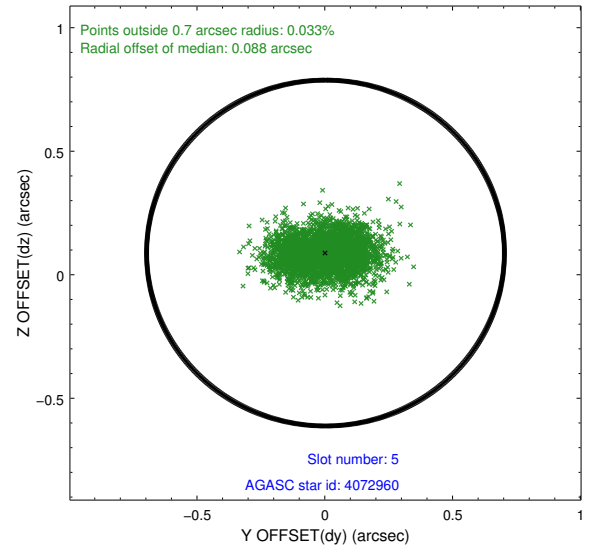
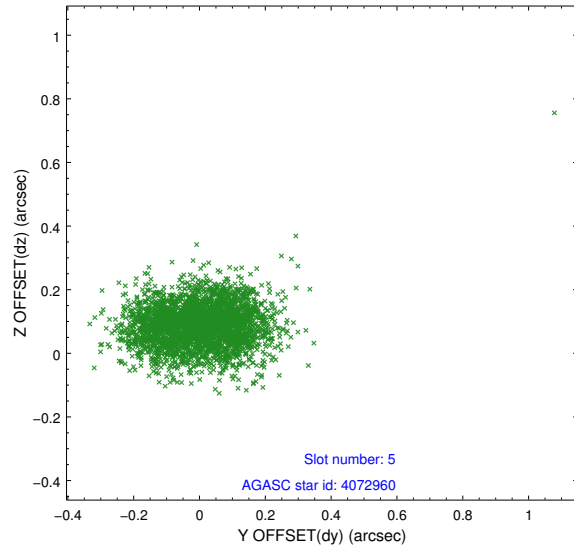
### 2.4.1 Slot 3



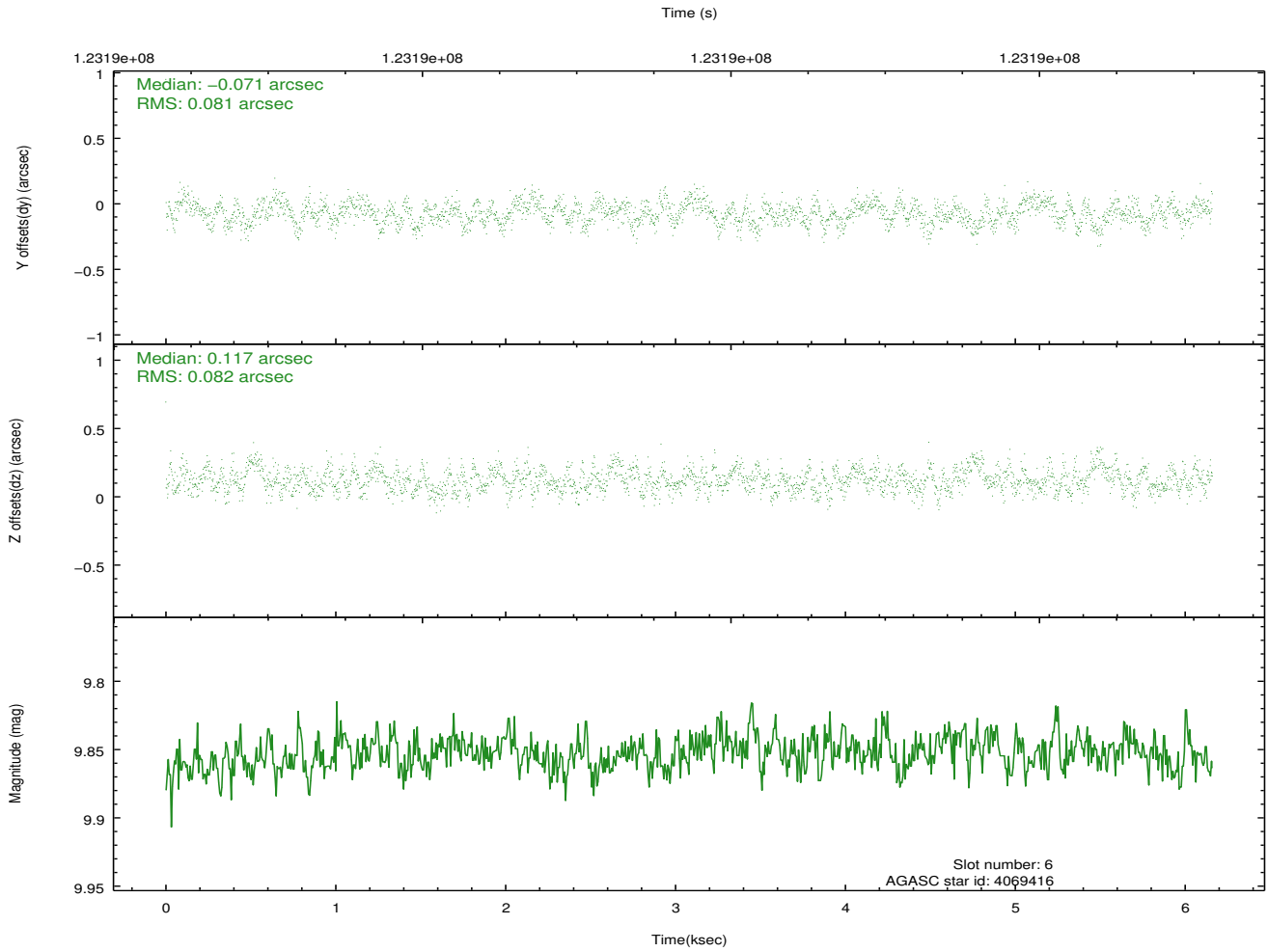
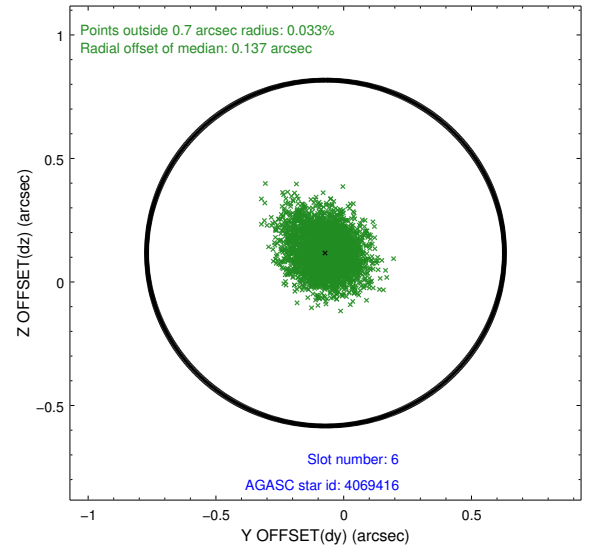
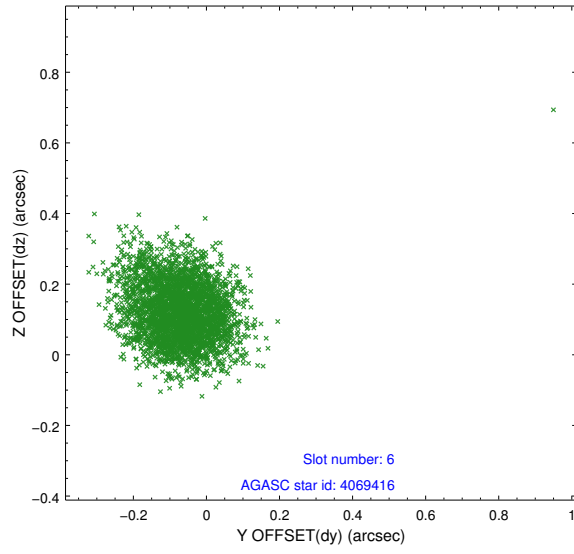
## 2.4.2 Slot 4



### 2.4.3 Slot 5

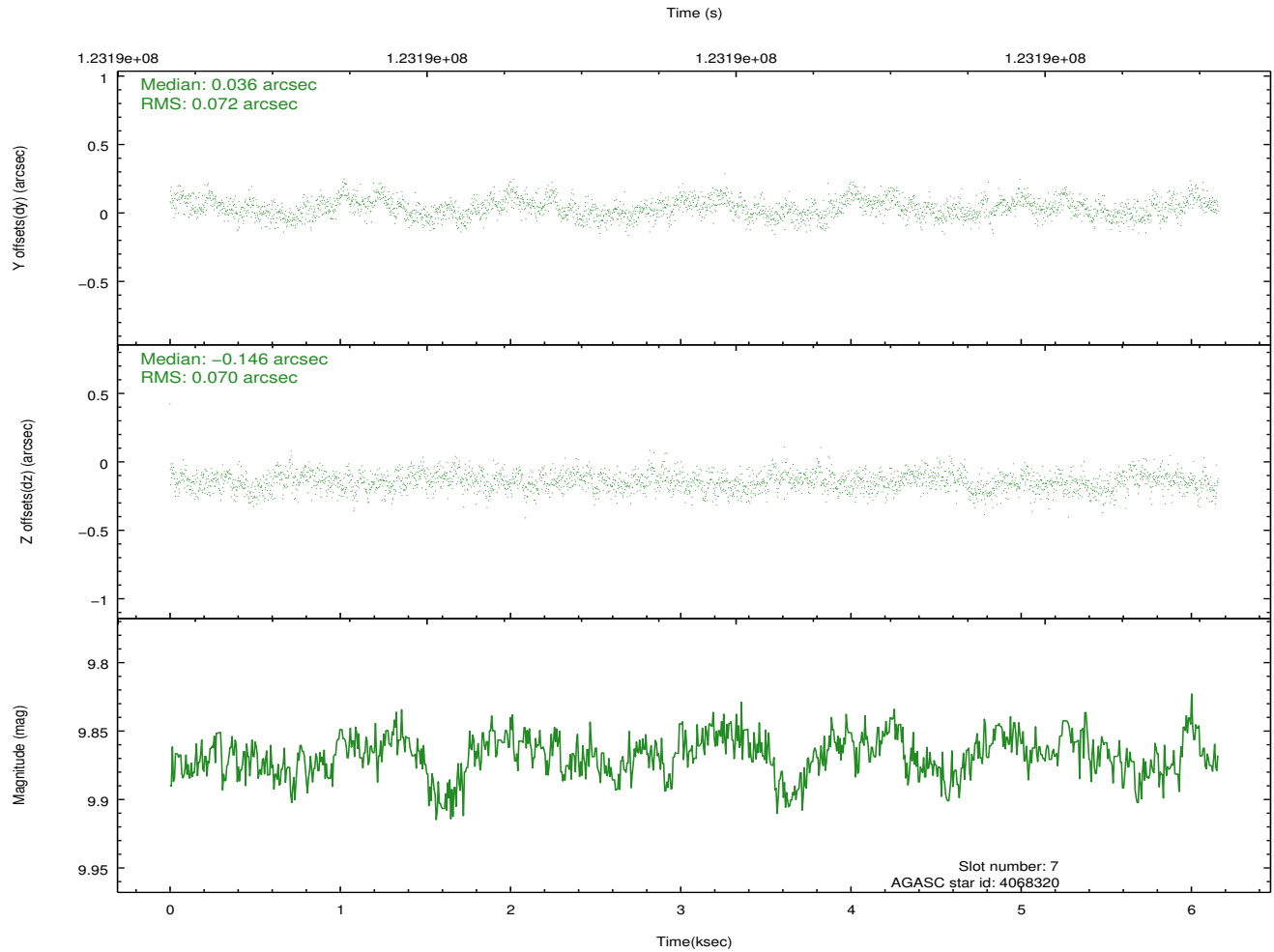
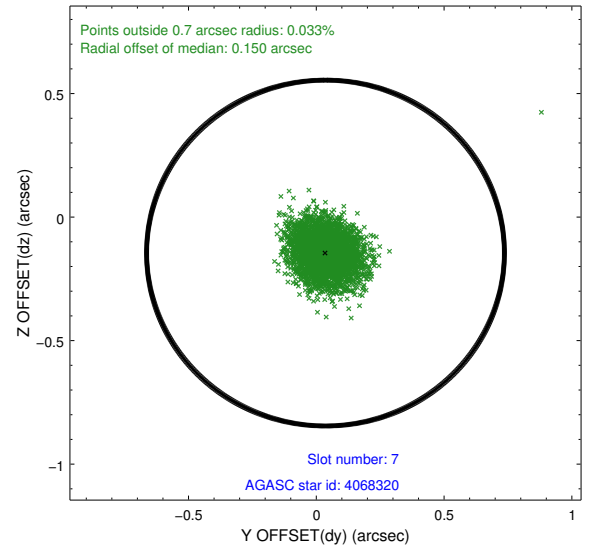
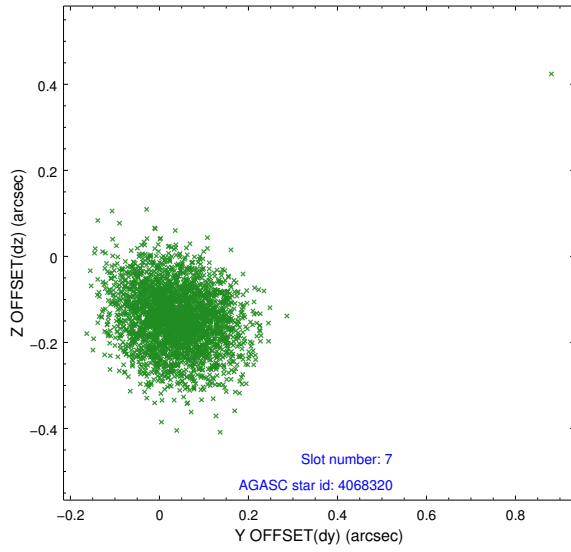


## 2.4.4 Slot 6



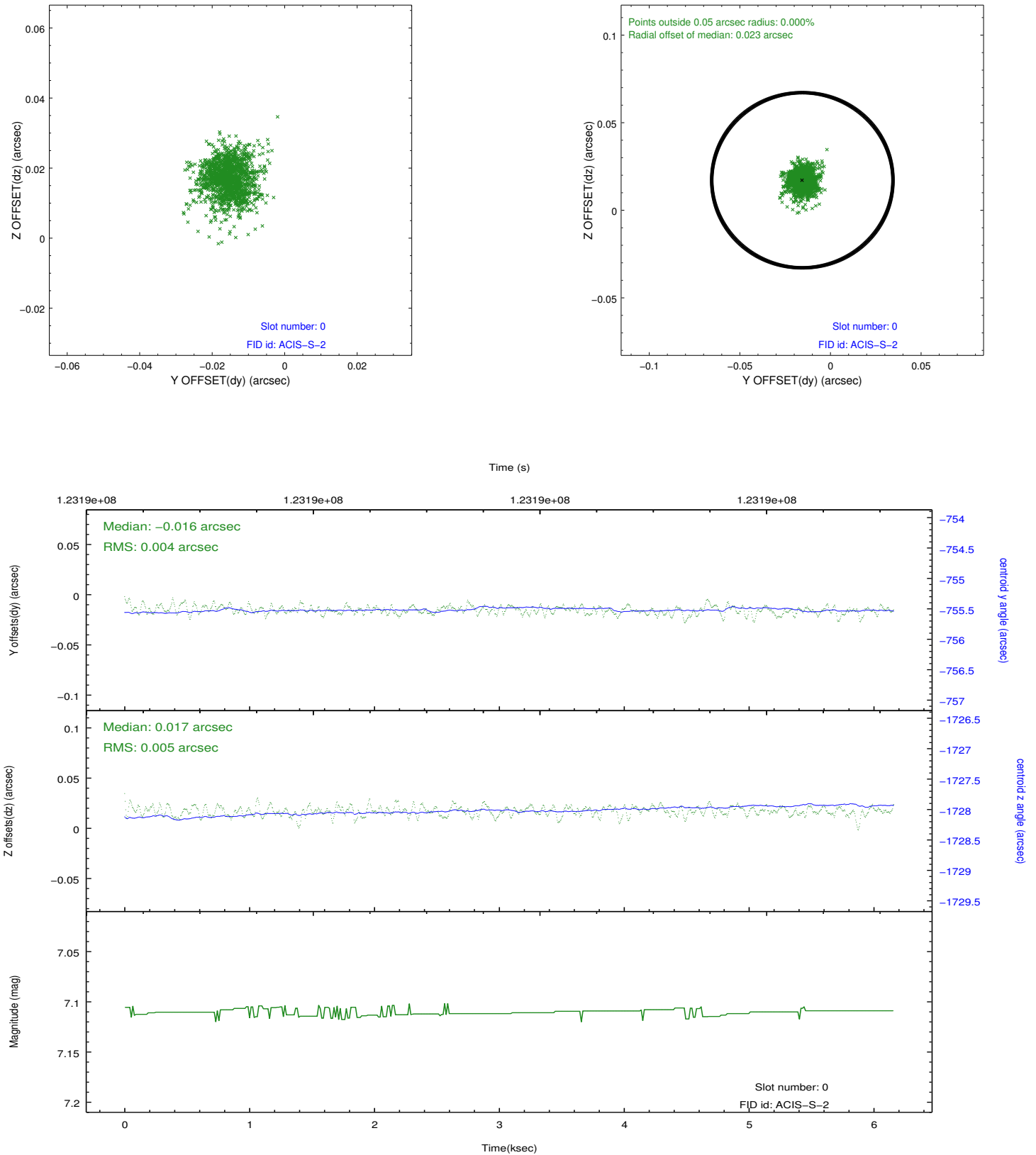


## 2.4.5 Slot 7

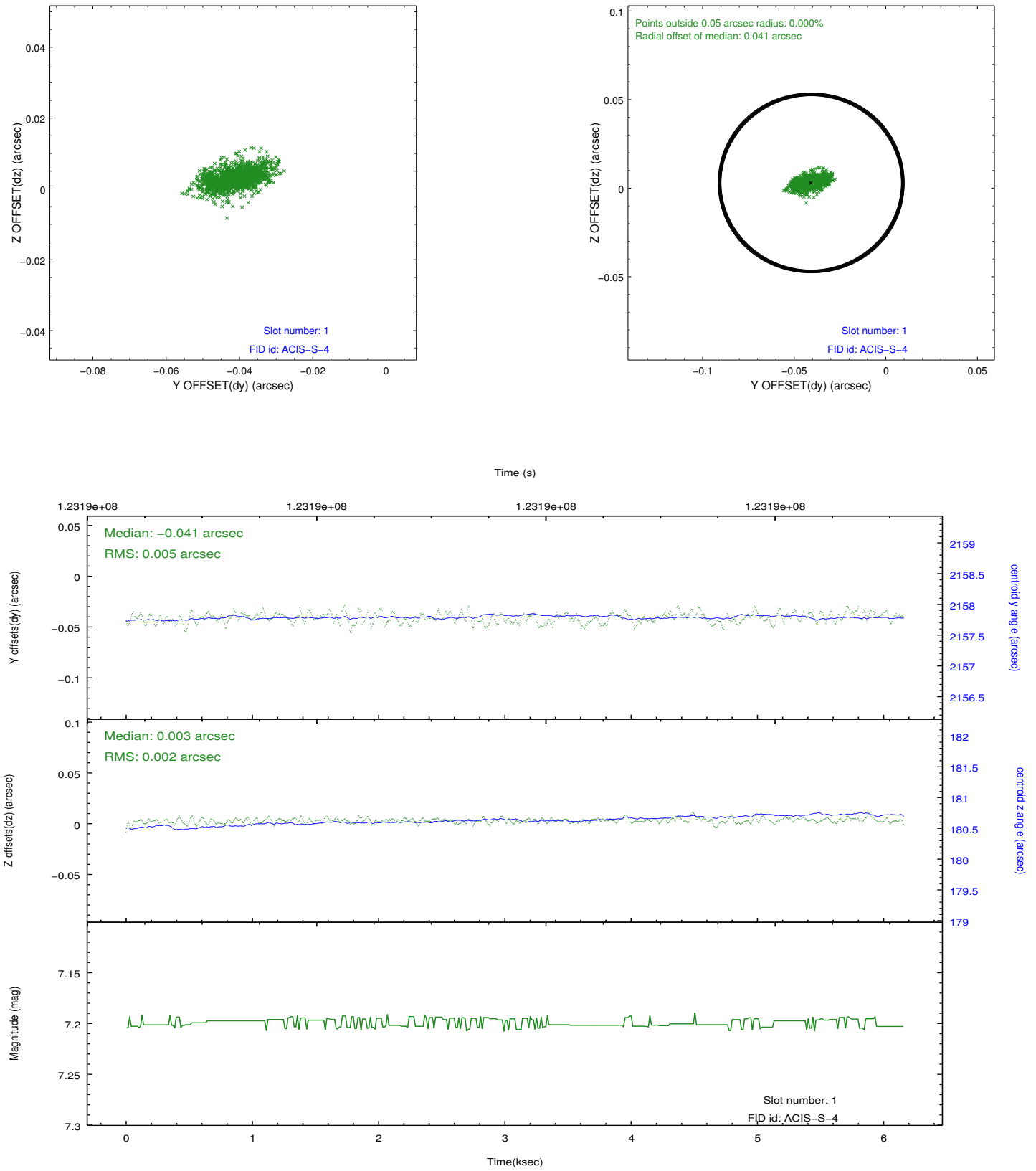


## 2.5 FID Slots

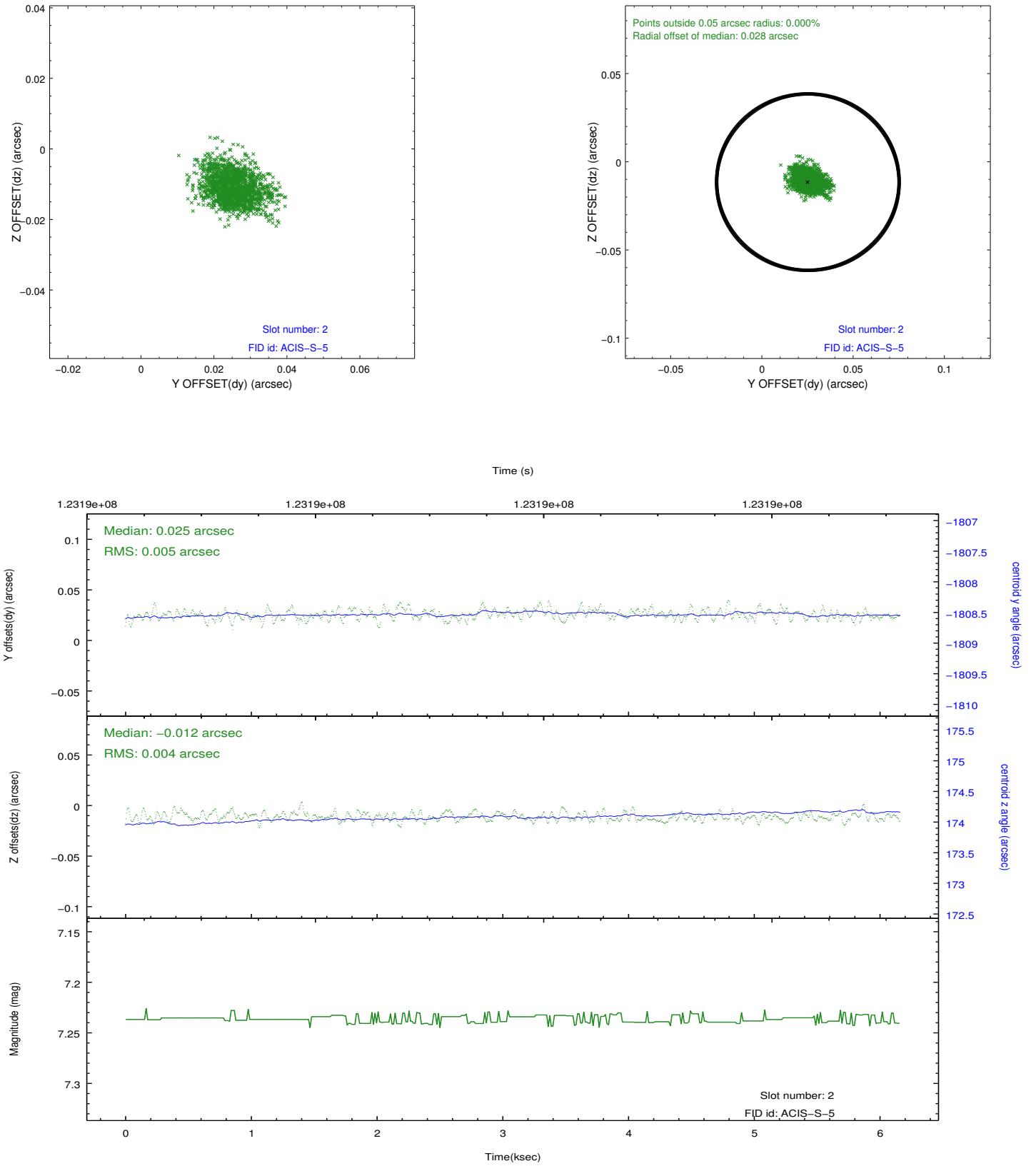
### 2.5.1 Slot 0



## 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)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.153

### A.2 Comments