

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3018 - L2 Version 3  
Chandra X-Ray Center

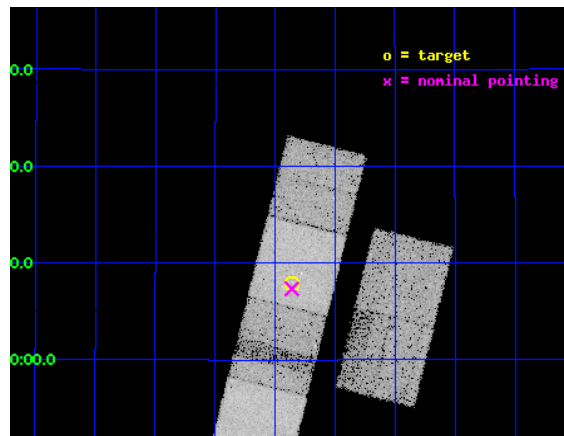
L2 Processing Date : Sep 29 2012

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# 1 Front

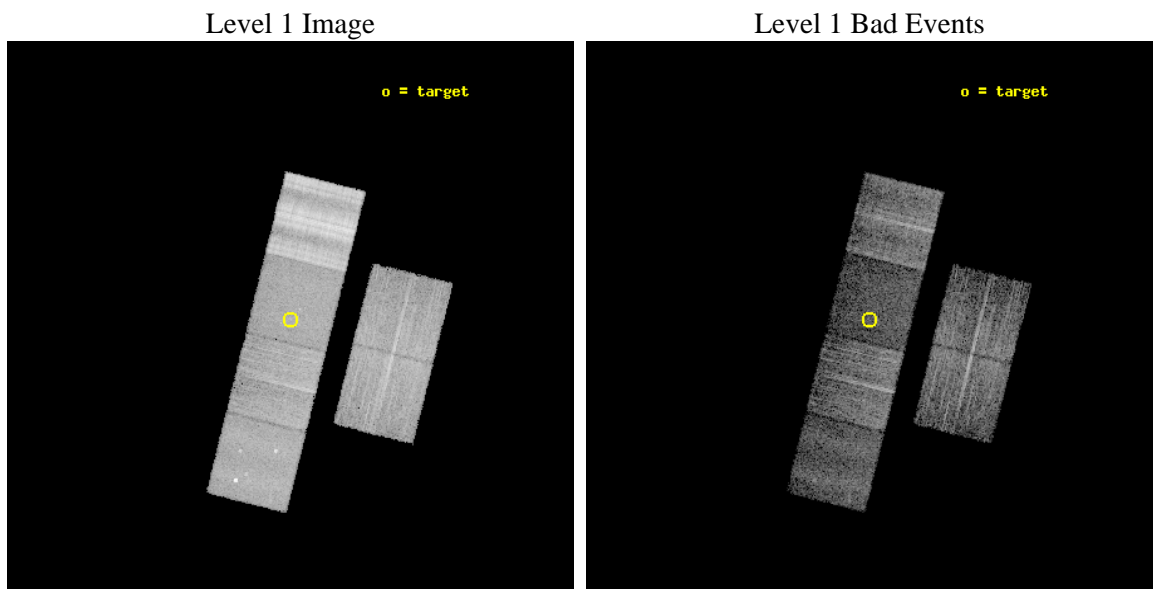
seq_num	700457	Sequence number
obs_id	3018	Observation id
title	A SYSTEMATIC X-RAY SURVEY OF SUBMILLIMETRE-LUMINOUS QUASARS	Propos
observer	Dr Robert Priddey	Principal investigator
object	PSS0134+3307	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.5895	Observer's specified target RA [deg]
dec_targ	33.132194	Observer's specified target Dec [deg]
ra_nom	23.59035385884	Nominal RA [deg]
dec_nom	33.122472988044	Nominal Dec [deg]
roll_nom	283.99794291749	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5113.6000047475	Sum of GTIs [s]
livetime	5048.8485224471	Livetime [s]
ontime2	5113.6000047475	Sum of GTIs [s]
ontime3	5113.6000047475	Sum of GTIs [s]
ontime5	5113.6000047475	Sum of GTIs [s]
ontime6	5113.6000047475	Sum of GTIs [s]
ontime7	5113.6000047475	Sum of GTIs [s]
ontime8	5113.6000047475	Sum of GTIs [s]
l2events	119074	Number of level 2 events



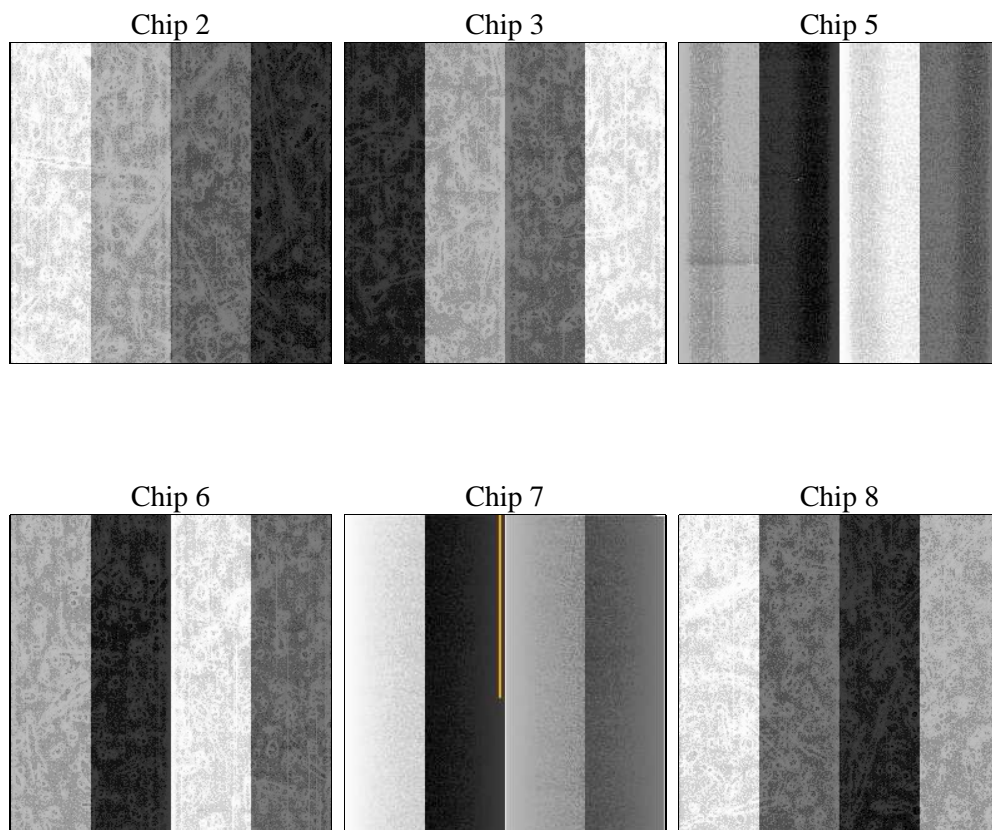
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	5	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5113.6000047475	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5113.6000047475	Sum of GTIs [s]
date	2012-09-30T02:07:05	Date and time of file creation	ontime3	5113.6000047475	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5113.6000047475	Sum of GTIs [s]
			ontime6	5113.6000047475	Sum of GTIs [s]
			ontime7	5113.6000047475	Sum of GTIs [s]
			ontime8	5113.6000047475	Sum of GTIs [s]
			l1events	559614	Number of level 1 events

### 2.1.4 Events

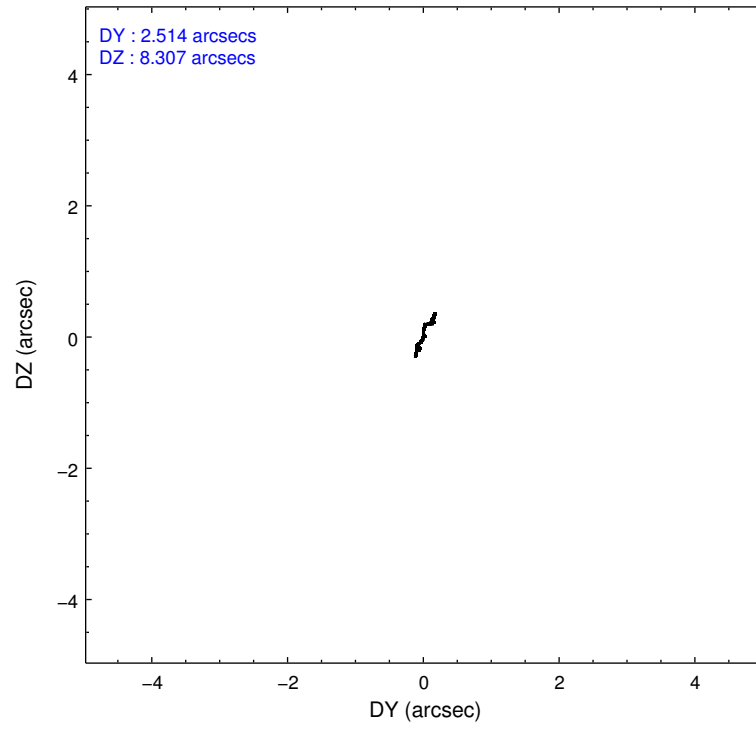
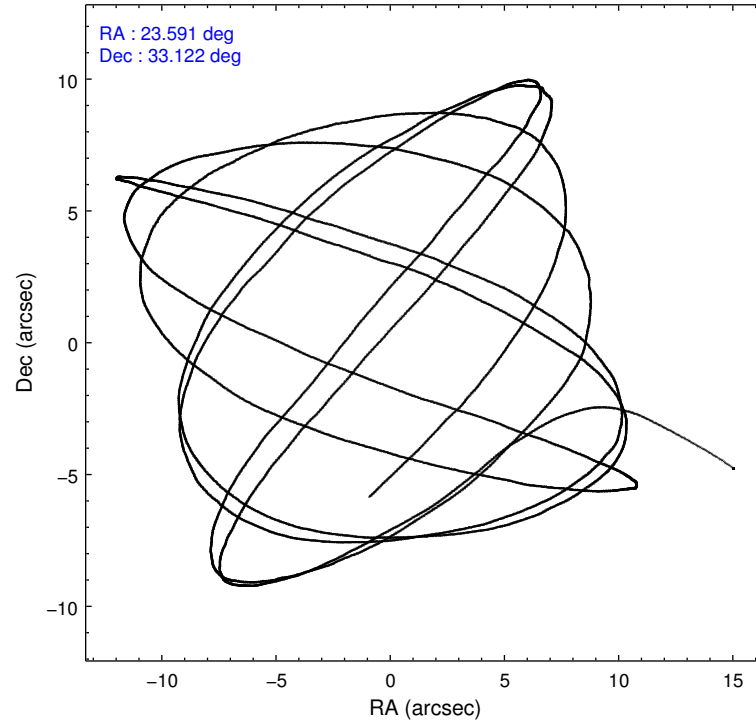
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	76049	72318	85522	77875	73249	174601	grade 0 events	8147	7000	6296	8632	3923	37088
rejected events	60553	57904	48525	61605	42061	80327		10%	9%	7%	11%	5%	21%
rejected %	79%	80%	56%	79%	57%	46%	grade 1 events	49	42	200	46	96	257
								0%	0%	0%	0%	0%	0%
							grade 2 events	5031	5274	14168	5707	7749	16132
								6%	7%	16%	7%	10%	9%
							grade 3 events	566	626	2720	656	3367	17687
								0%	0%	3%	0%	4%	10%
							grade 4 events	983	754	2627	751	3137	15658
								1%	1%	3%	0%	4%	8%
							grade 5 events	1564	1537	5385	1776	5820	3361
								2%	2%	6%	2%	7%	1%
							grade 6 events	3314	3303	20013	3118	20237	21249
								4%	4%	23%	4%	27%	12%
							grade 7 events	56395	53782	34113	57189	28920	63169
								74%	74%	39%	73%	39%	36%

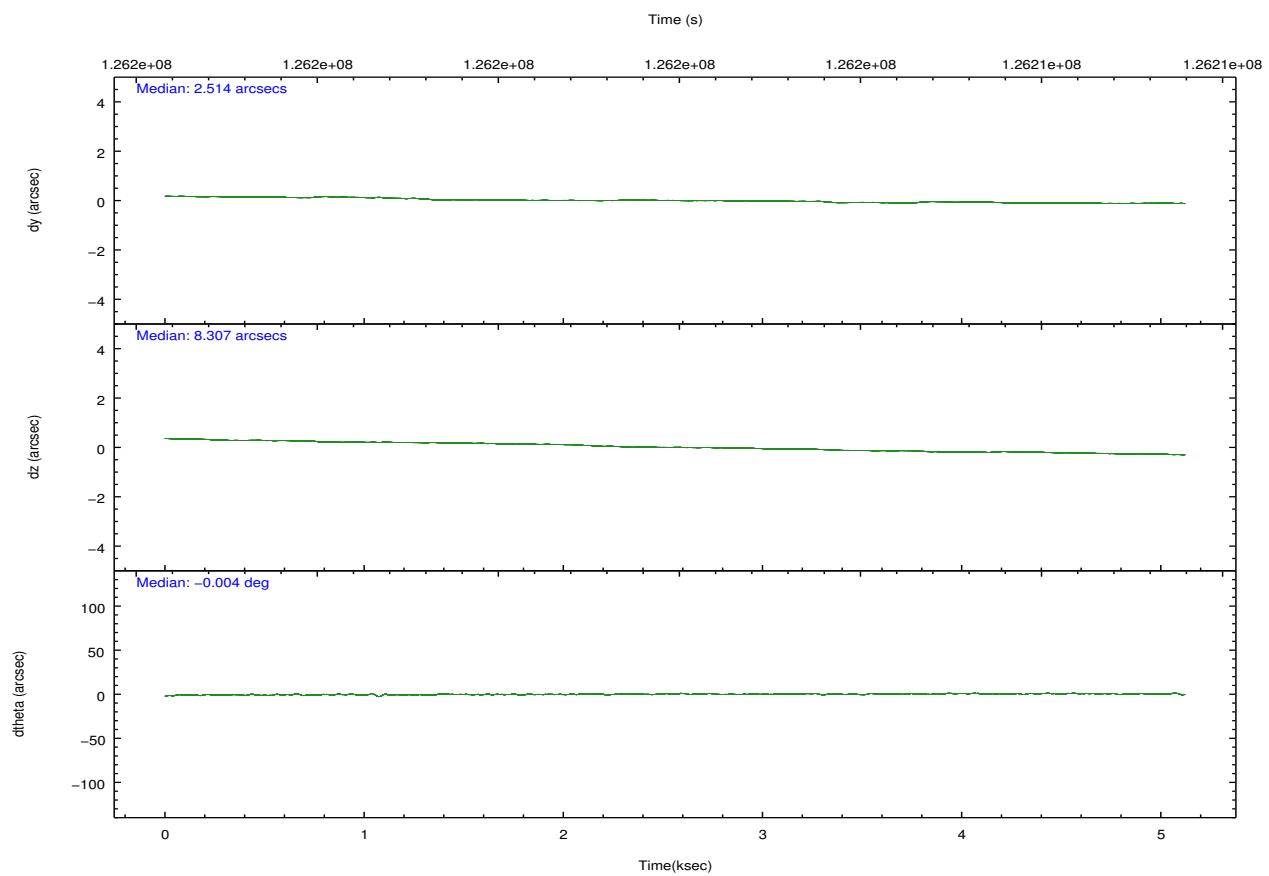
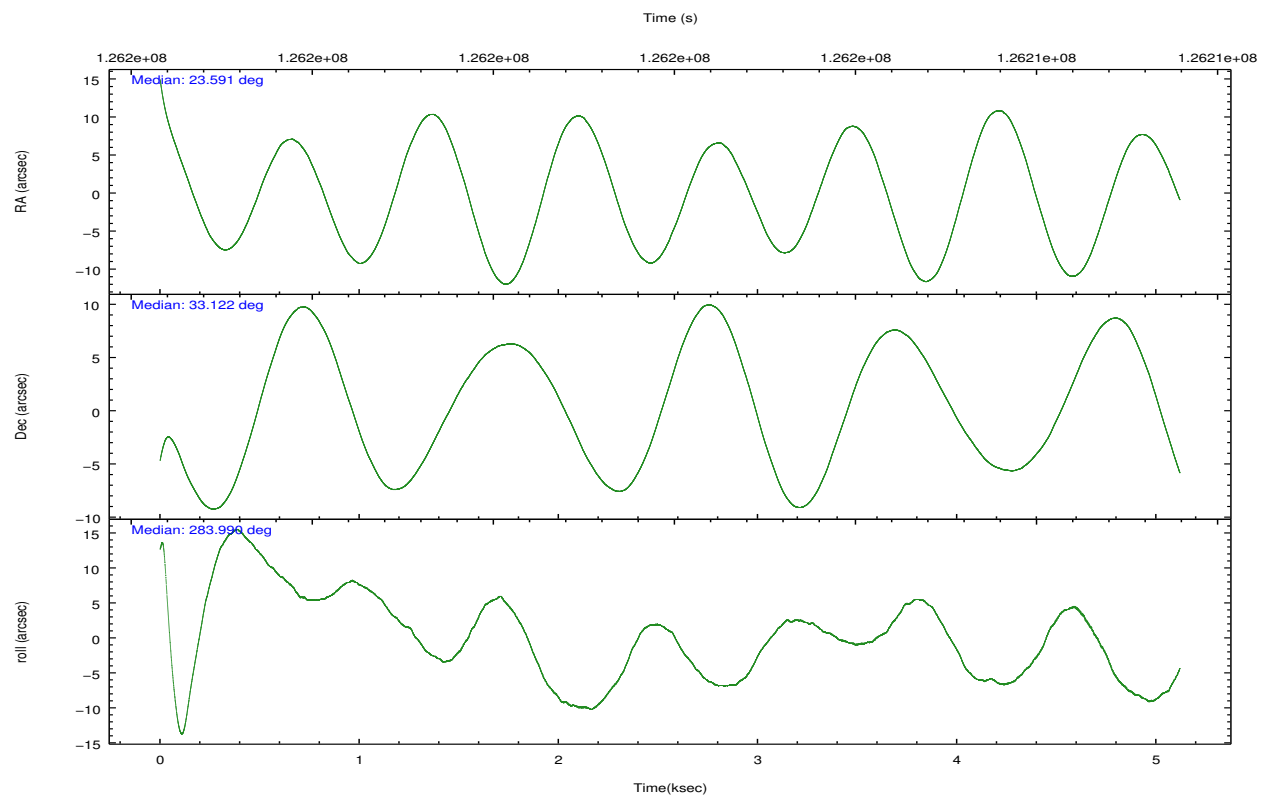


## 2.2 Compared Parameters

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	23.567371	23.59035385884047	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.141873	33.12247298804443	Alternating exposures requested	N	N
[deg] Pointing Roll	283.853786	283.9979429174875	[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)	126201538.184000	126199741.88561			
Observation start date	2001-12-31T15:57:54	2001-12-31T15:29:01			
[s] Observation end time (MET)	126206538.184000	126207641.56092			
Observation end date	2001-12-31T17:21:14	2001-12-31T17:40:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



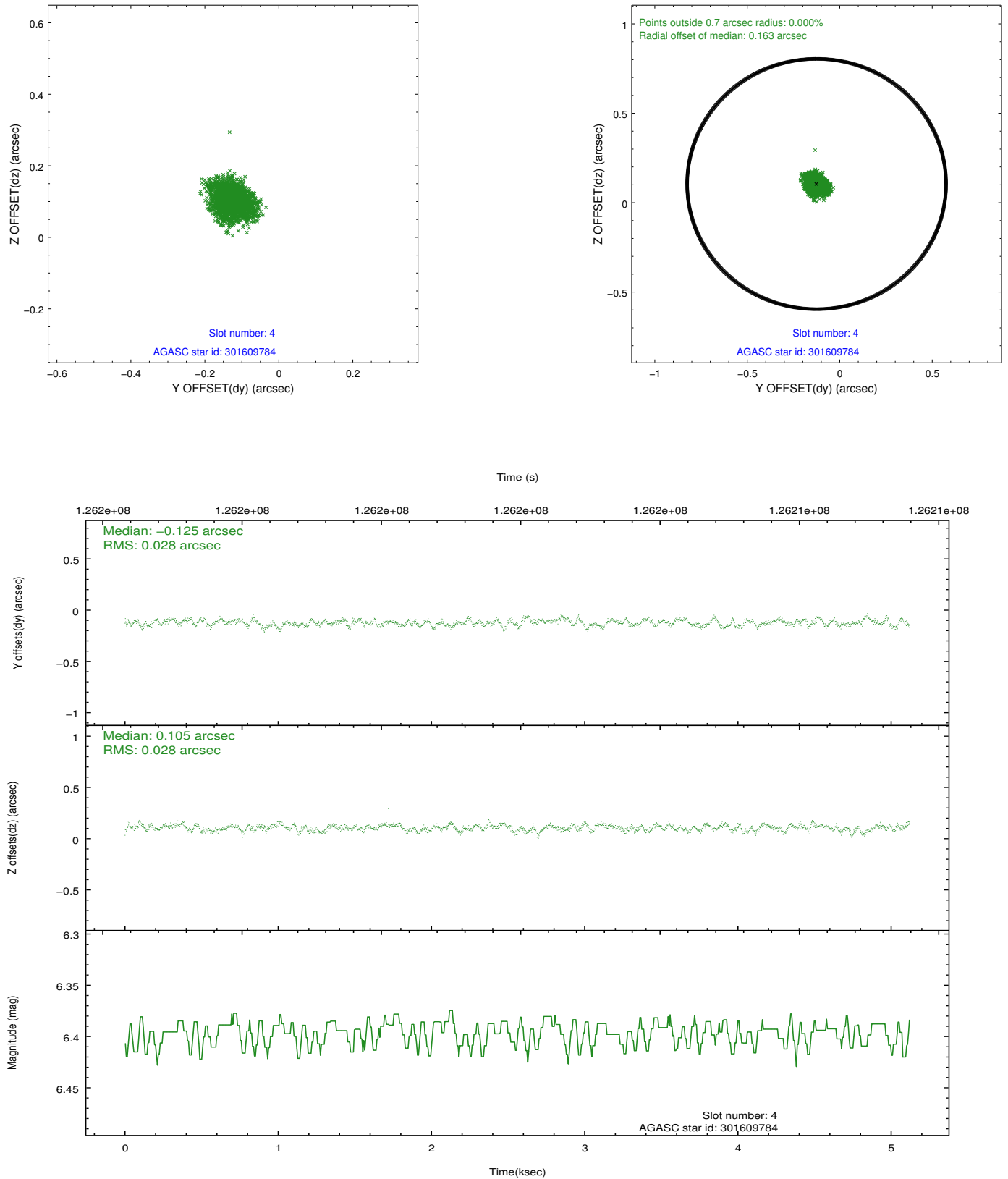


### Slot Statistics

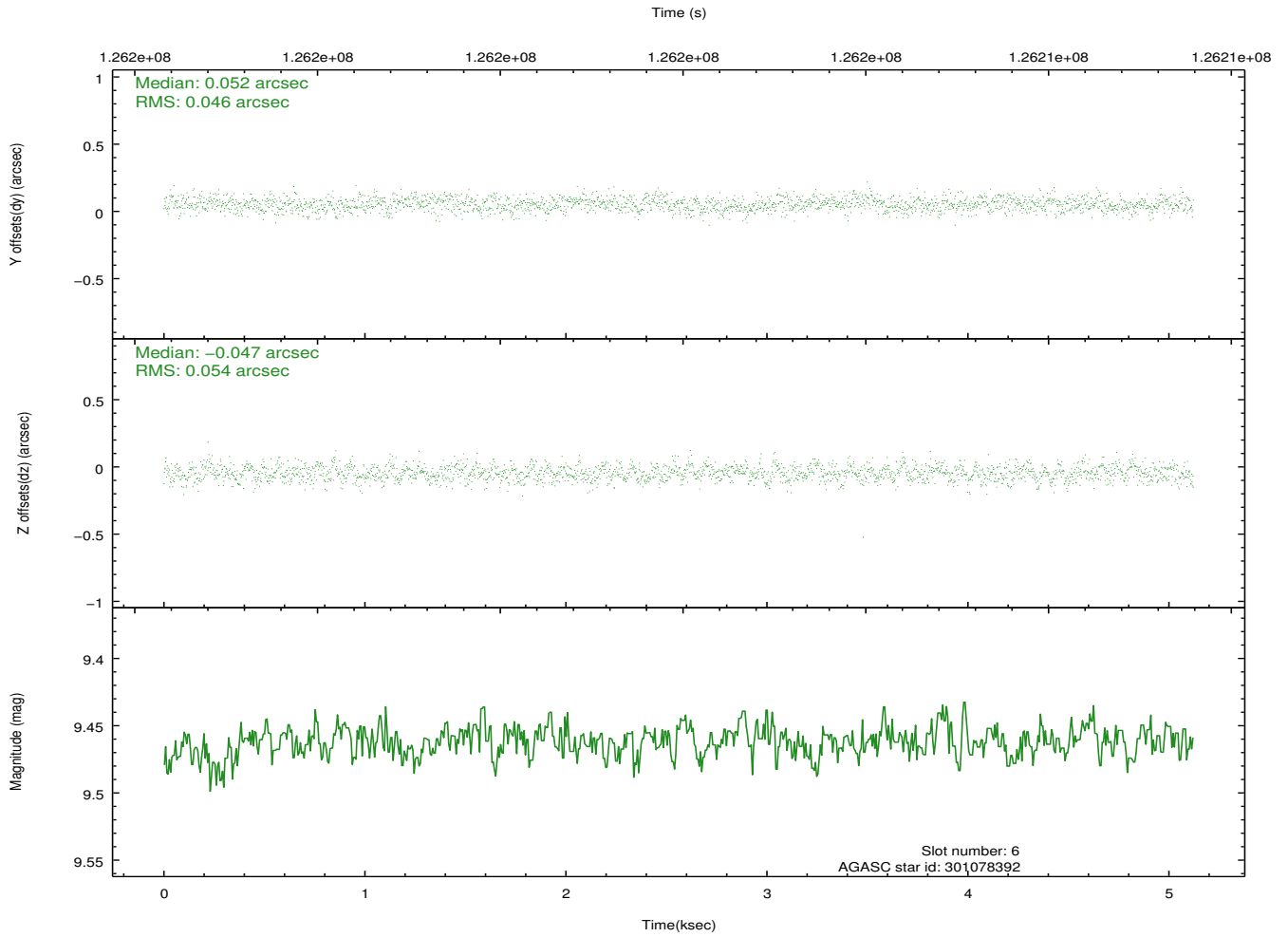
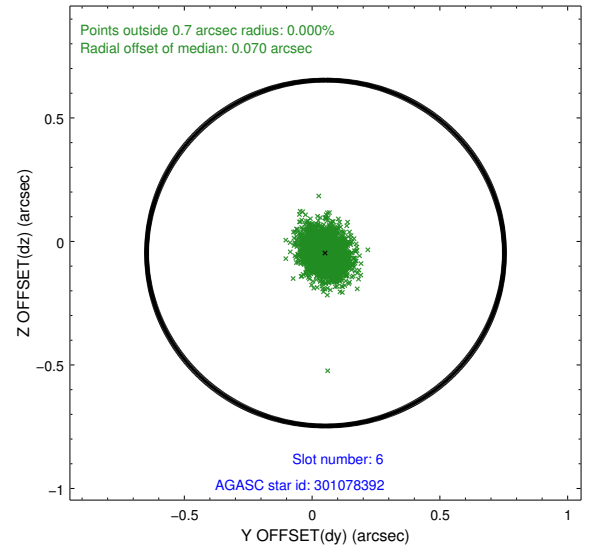
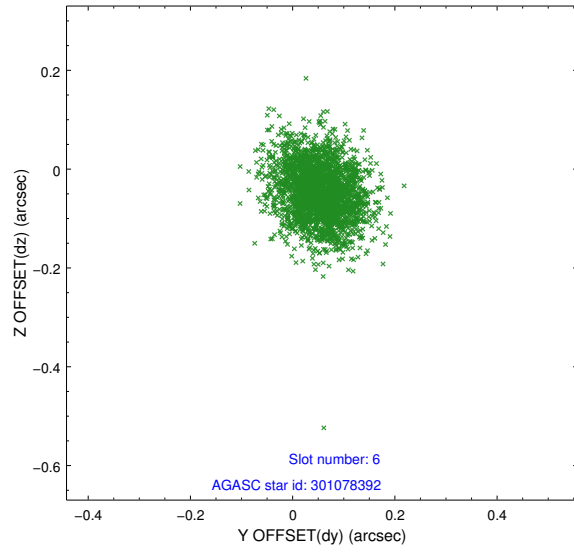
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1250	-0.022	-0.018	0.007	0.012	0.000000	0.000000	-755.17	-1729.54
1	FID	ACIS-S-4	7.20	1248	-0.026	0.016	0.007	0.012	0.000000	0.000000	2157.57	177.75
2	FID	ACIS-S-5	7.23	1249	0.017	0.011	0.007	0.013	0.000000	0.000000	-1806.45	172.77
3	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	301609784	6.40	2499	-0.125	0.105	0.042	0.069	23.960186	33.835327	-2145.24	1737.61
5	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	301078392	9.46	2496	0.052	-0.047	0.075	0.122	23.091712	32.835736	721.41	-1660.22
7	GUIDE	301078672	6.85	2498	0.071	-0.058	0.042	0.067	23.742068	33.117864	209.78	489.09

## 2.4 Star Slots

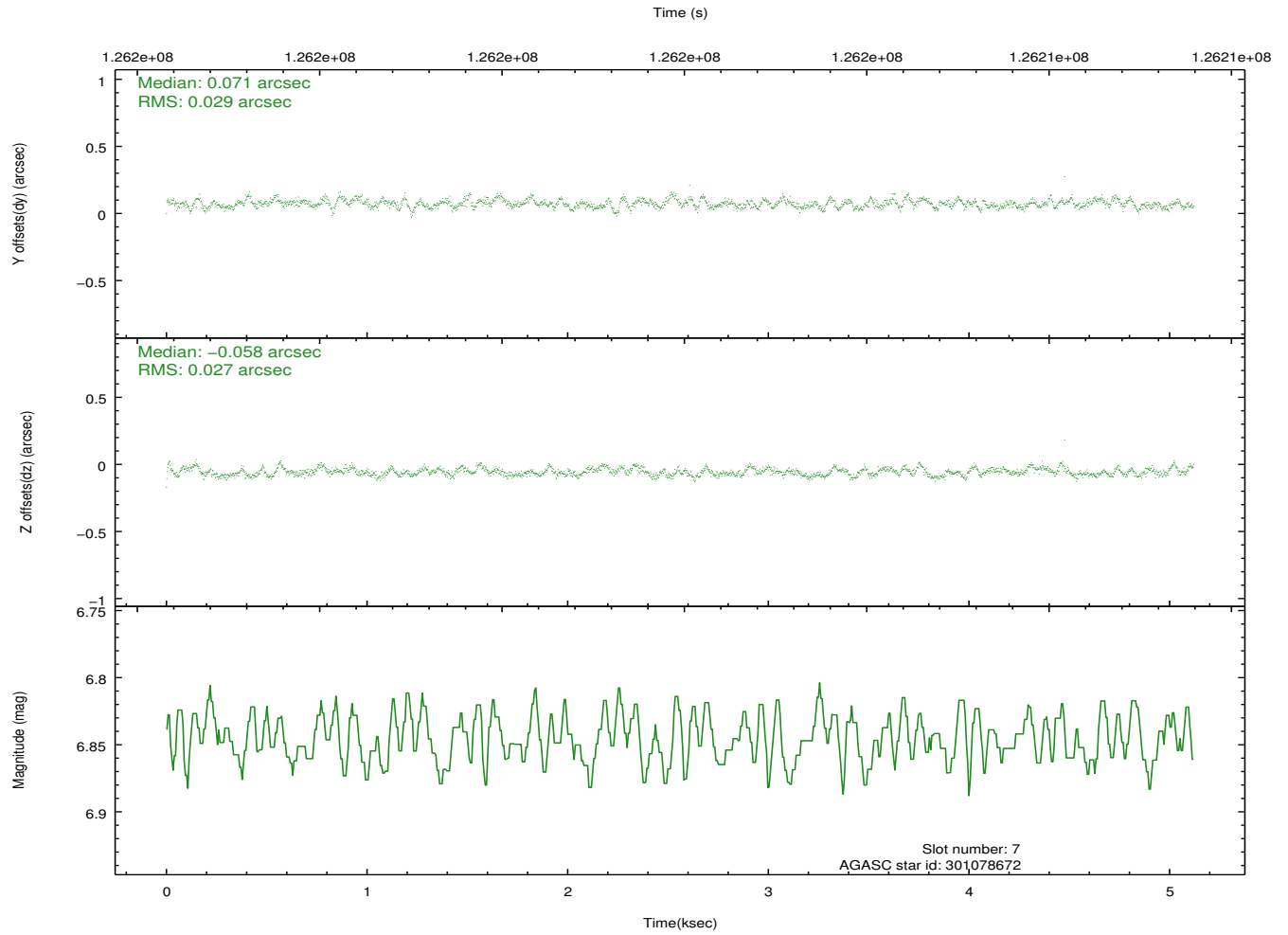
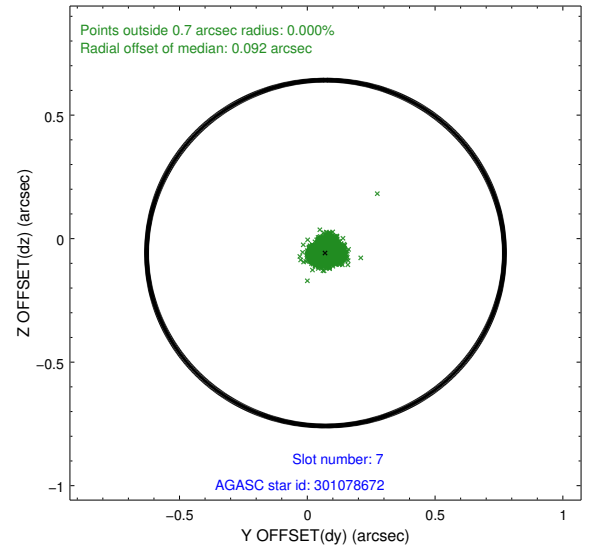
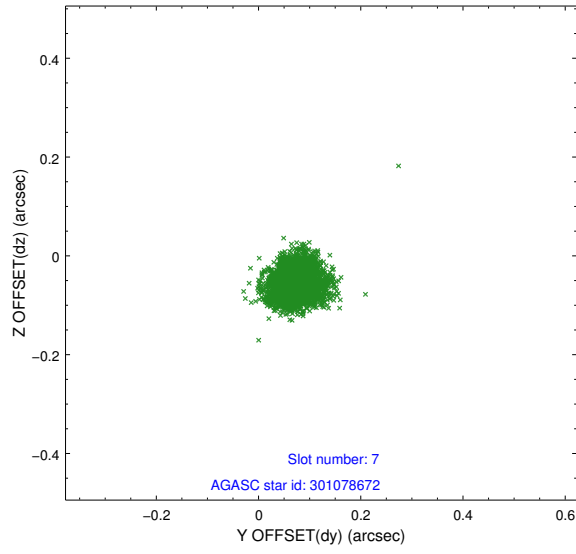
### 2.4.1 Slot 4



## 2.4.2 Slot 6

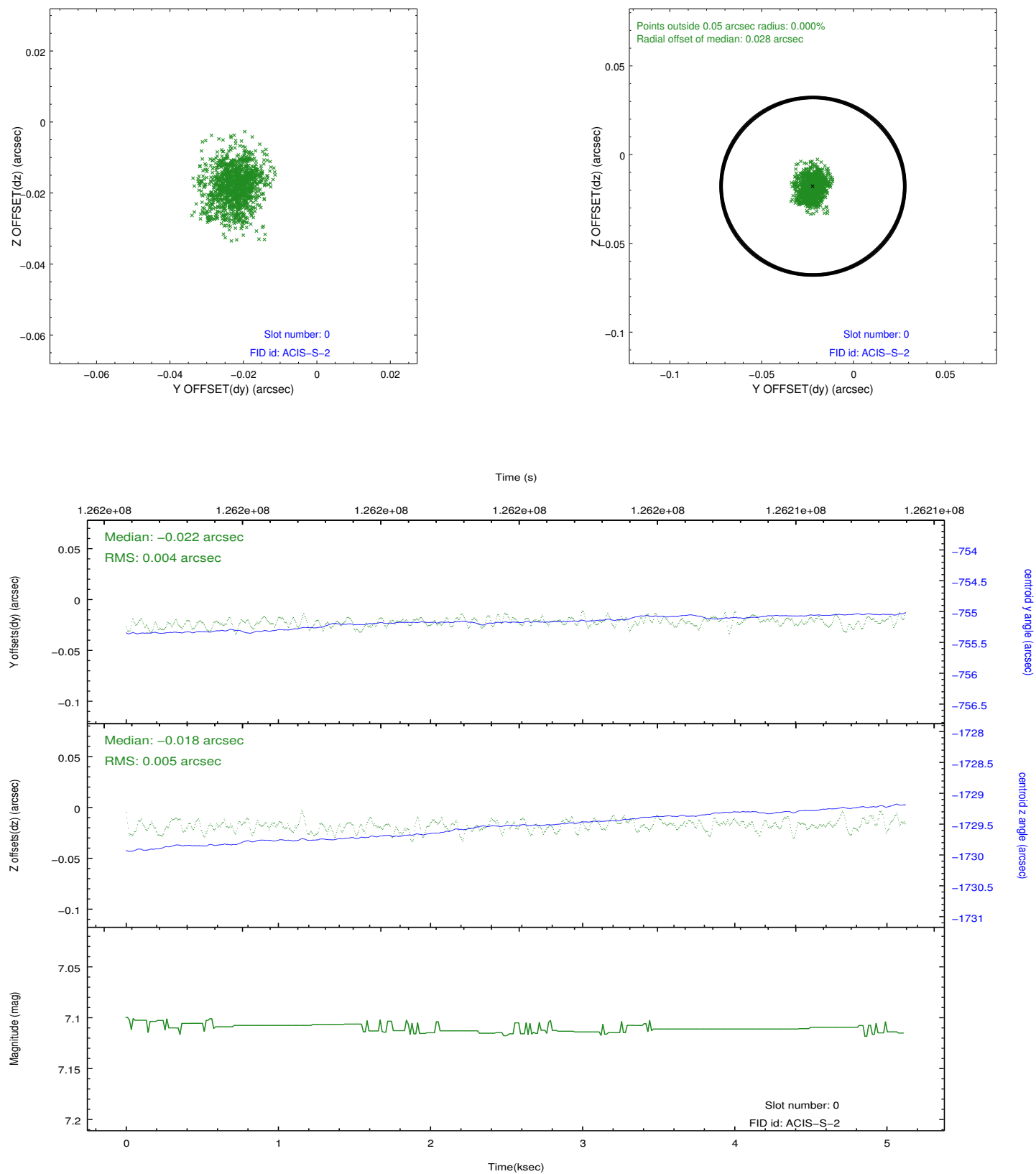


### 2.4.3 Slot 7



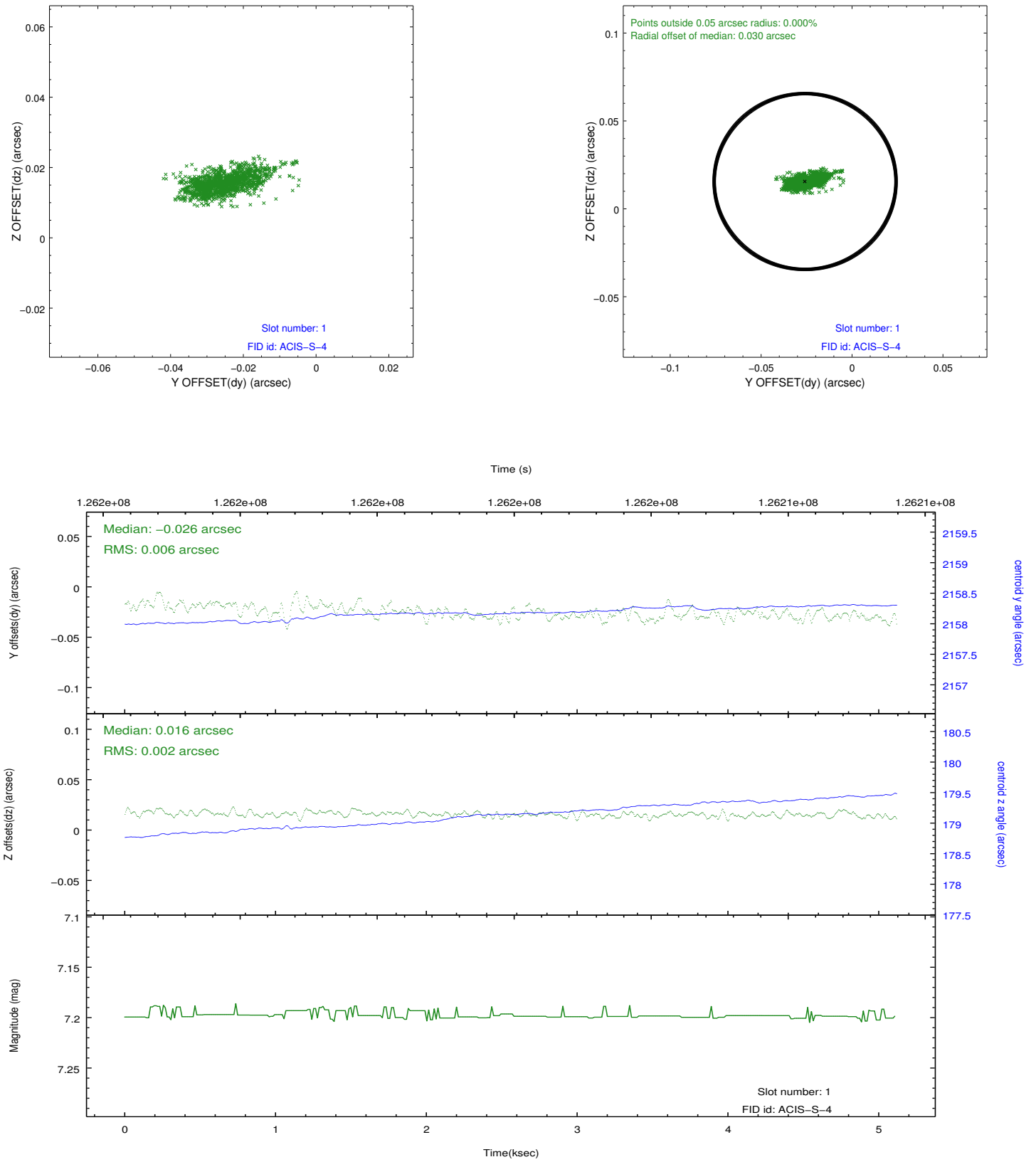
## 2.5 FID Slots

### 2.5.1 Slot 0

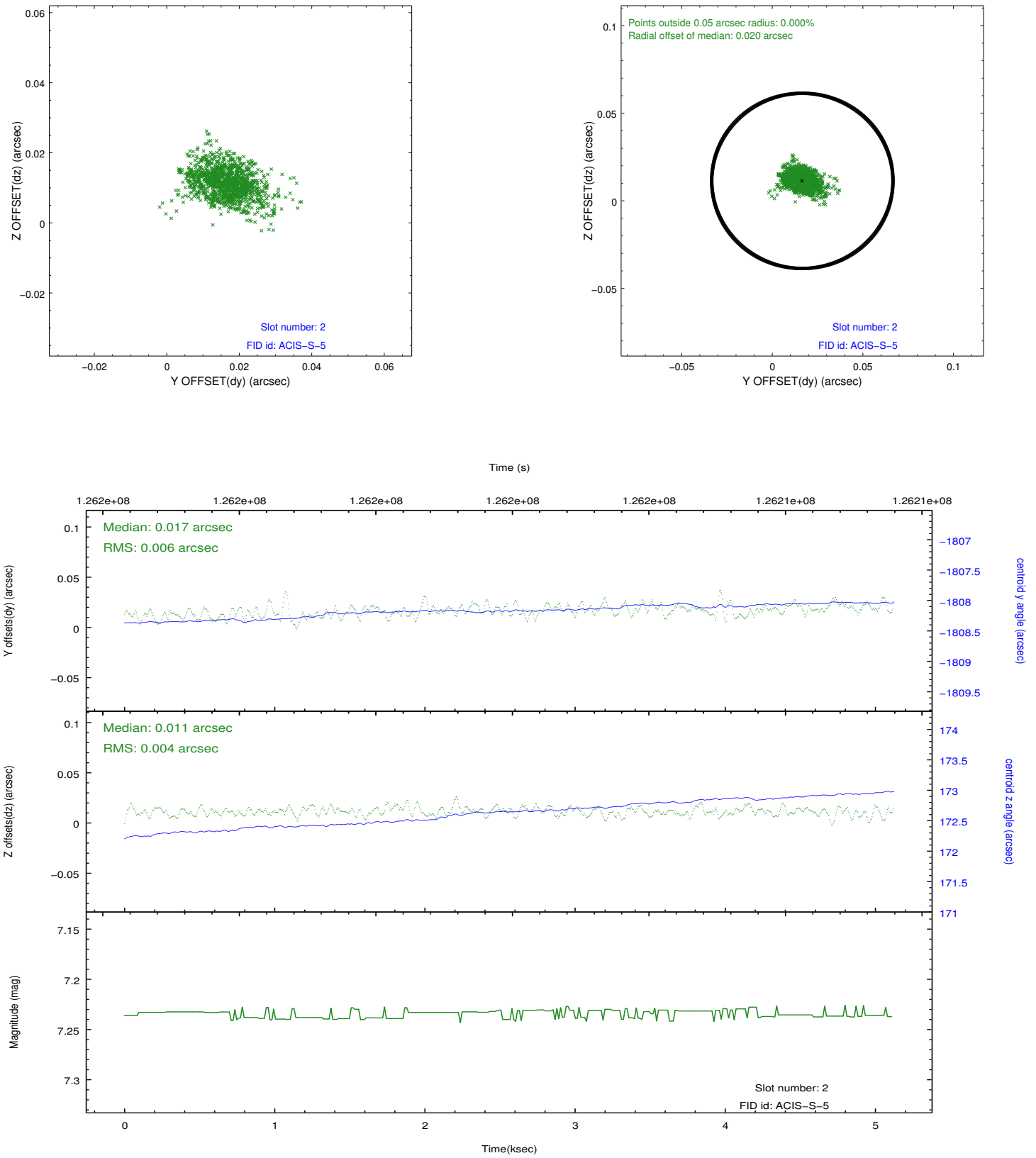




## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.113

## A.2 Comments

Only three guide stars were used for this observation. The aspect solution is not expected to be degraded by the absence of two stars from the solution.