

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4556 - L2 Version 3  
Chandra X-Ray Center

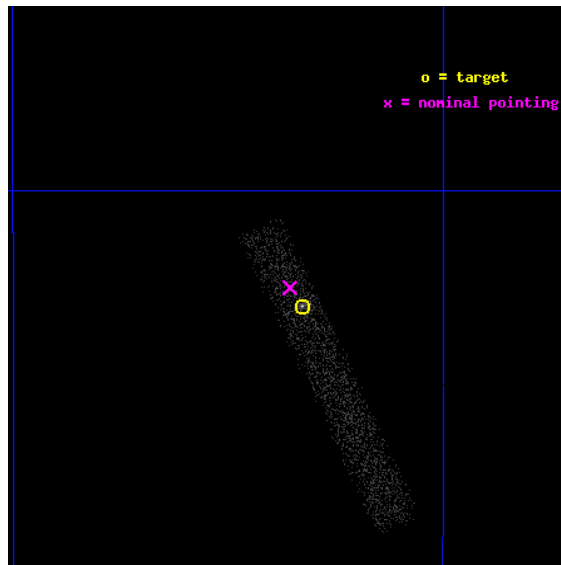
L2 Processing Date : Nov 11 2012

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# 1 Front

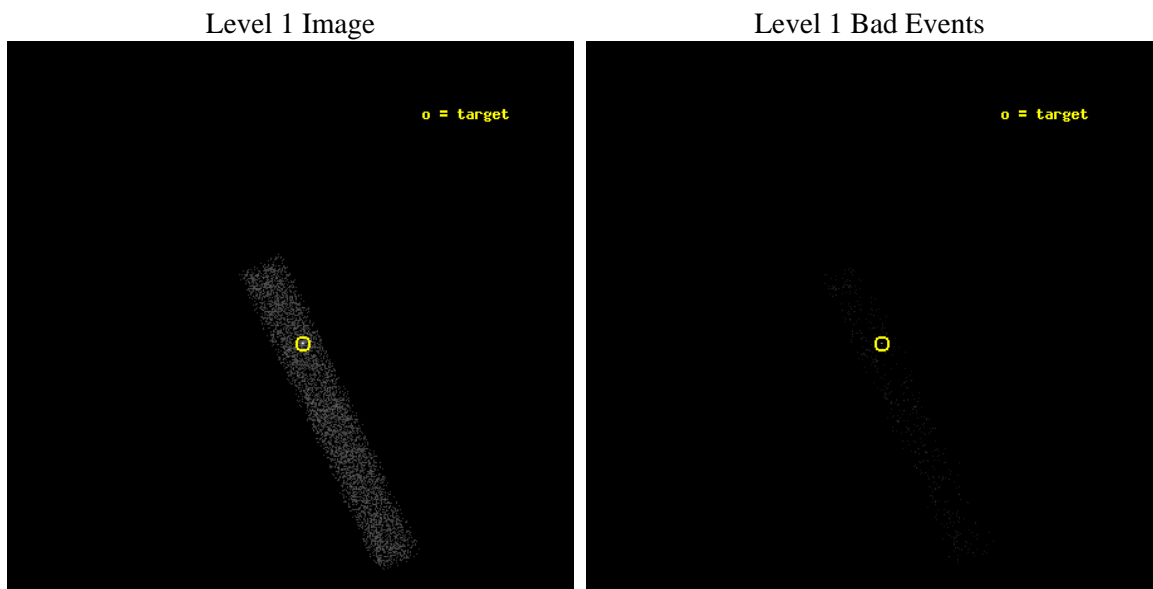
seq_num	400339	Sequence number
obs_id	4556	Observation id
title	Monitoring the ultraluminous x-ray source in NGC 5408	Proposal tit
observer	Prof. Philip Kaaret	Principal investigator
object	NGC 5408 ULX	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.831667	Observer's specified target RA [deg]
dec_targ	-41.382972	Observer's specified target Dec [deg]
ra_nom	210.83905051784	Nominal RA [deg]
dec_nom	-41.375106376546	Nominal Dec [deg]
roll_nom	64.740172737529	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4904.8000730574	Sum of GTIs [s]
livetime	4448.3947696875	Livetime [s]
ontime7	4904.8000730574	Sum of GTIs [s]
l2events	4118	Number of level 2 events



## 2 OBI

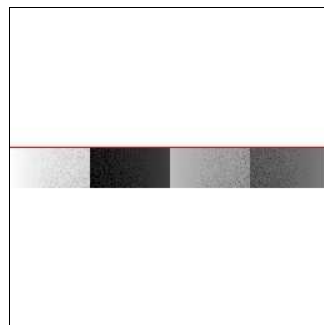
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4728.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4904.8000730574	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	4904.8000730574	Sum of GTIs [s]
date	2012-11-11T14:45:10	Date and time of file creation	l1events	8976	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	8976
rejected events	4750
rejected %	52%

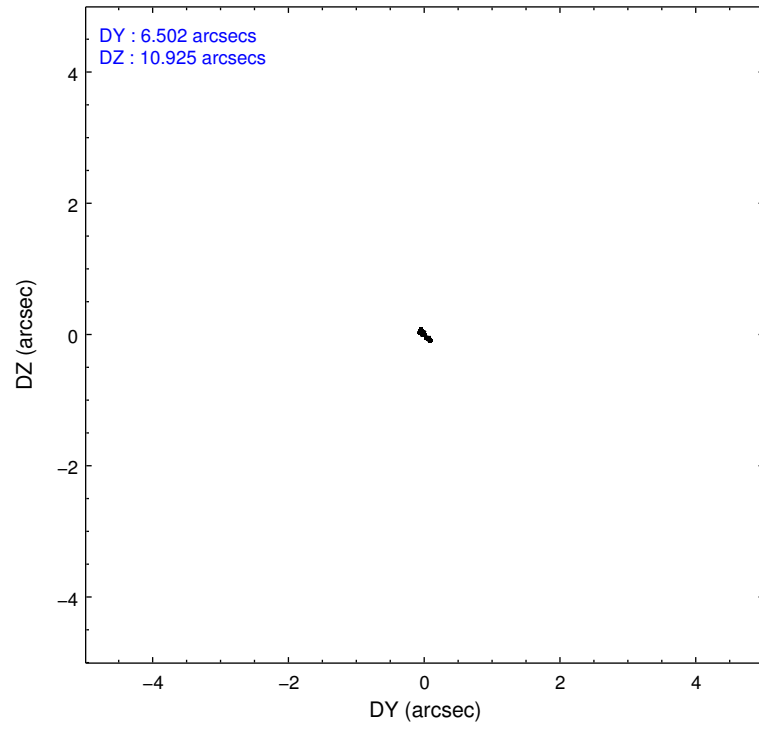
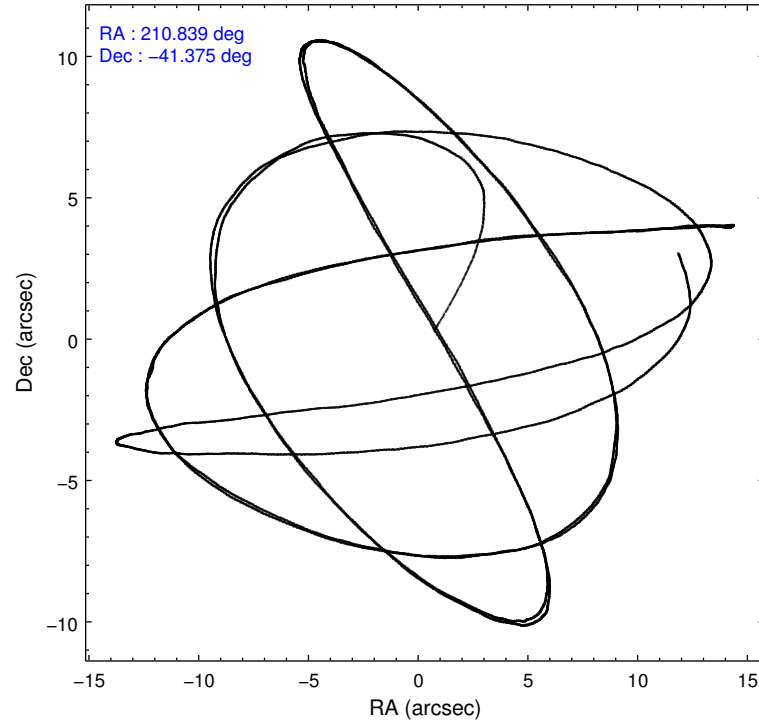
	<b>ccd 7</b>
grade 0 events	925
	10%
grade 1 events	14
	0%
grade 2 events	1049
	11%
grade 3 events	643
	7%
grade 4 events	579
	6%
grade 5 events	746
	8%
grade 6 events	1742
	19%
grade 7 events	3278
	36%

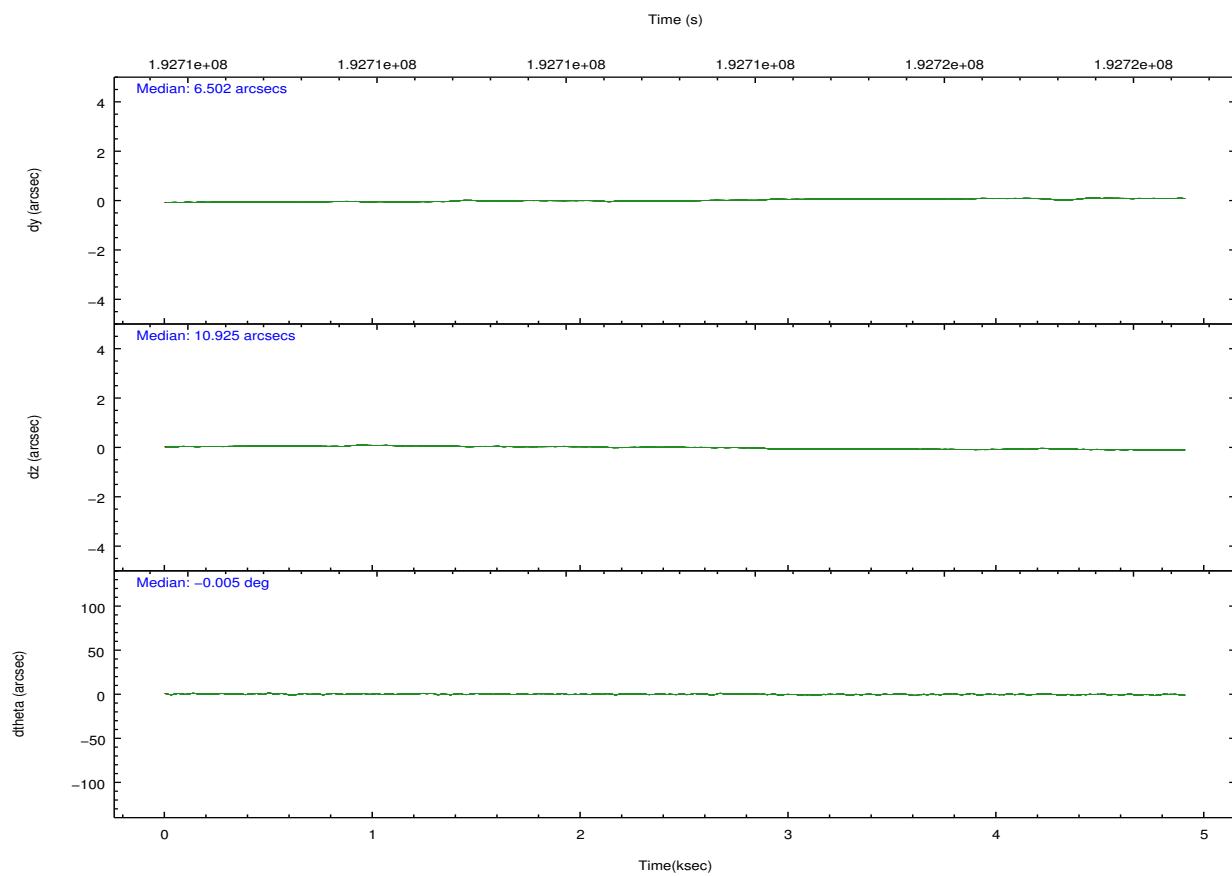
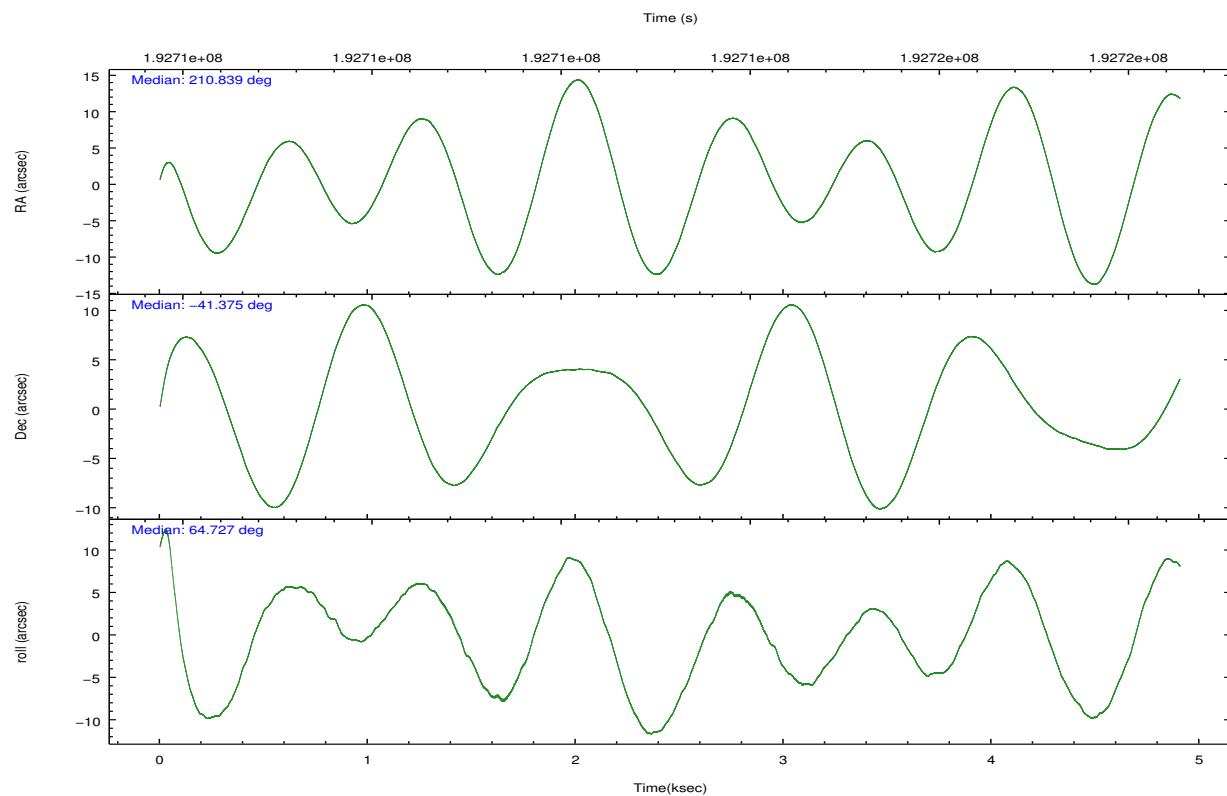


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	210.842620	210.8390505178434	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-41.402189	-41.37510637654639	Subarray start row	449	449
[deg] Pointing Roll	64.585882	64.74017273752888	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	192711302.184000	192709787.84658			
Observation start date	2004-02-09T10:53:58	2004-02-09T10:29:47			
[s] Observation end time (MET)	192716030.184000	192716810.63438			
Observation end date	2004-02-09T12:12:46	2004-02-09T12:26:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



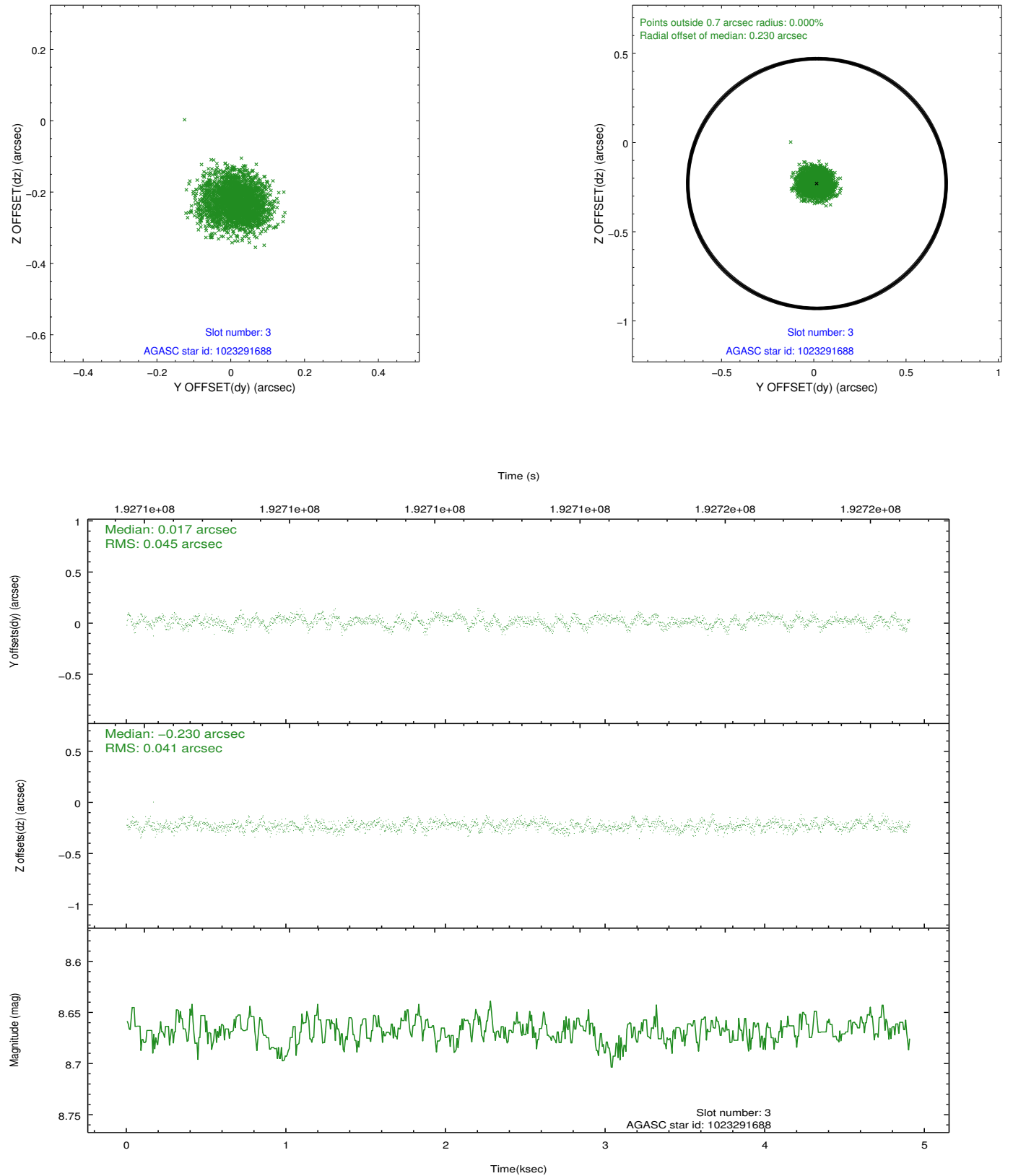


### Slot Statistics

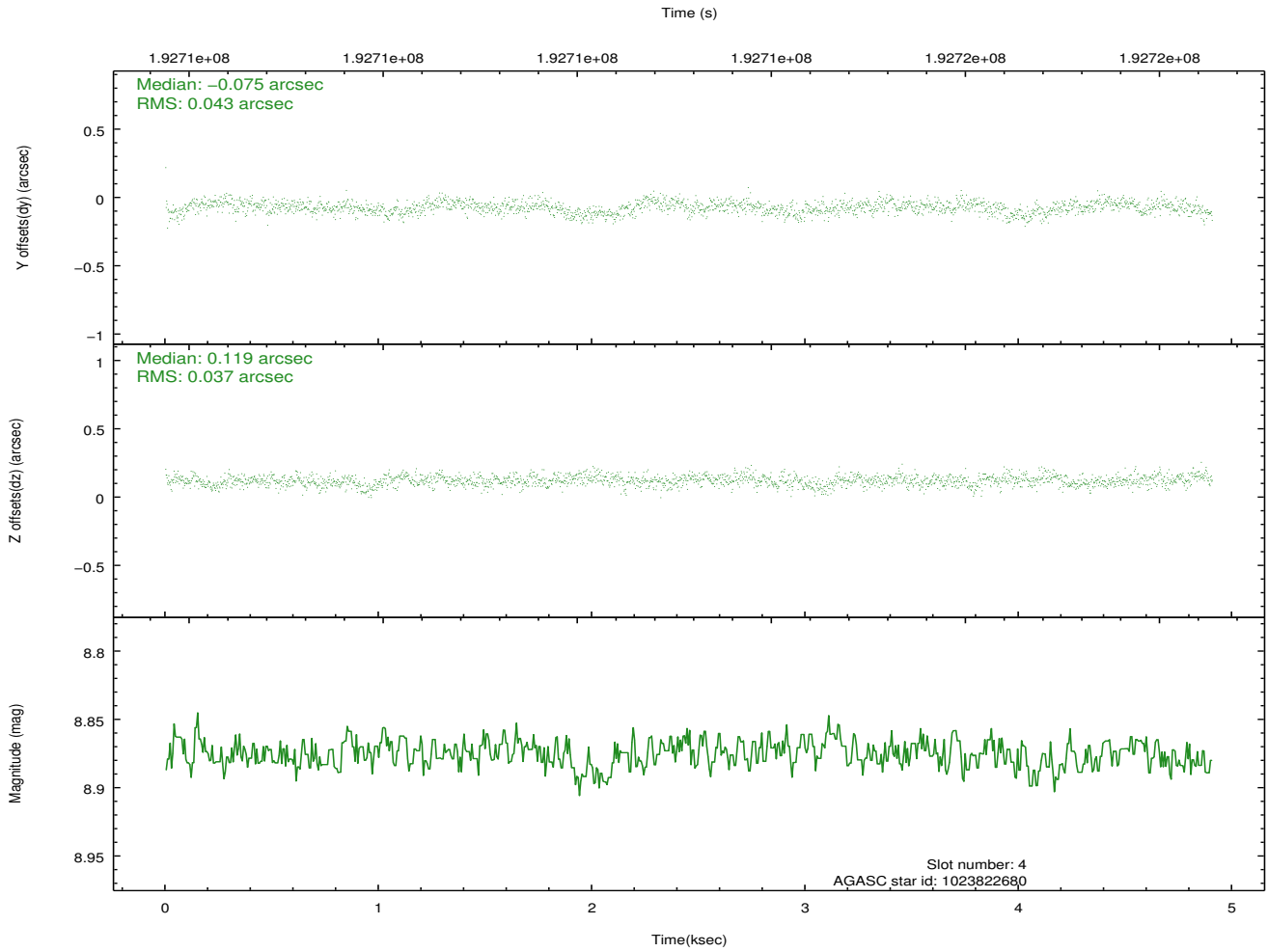
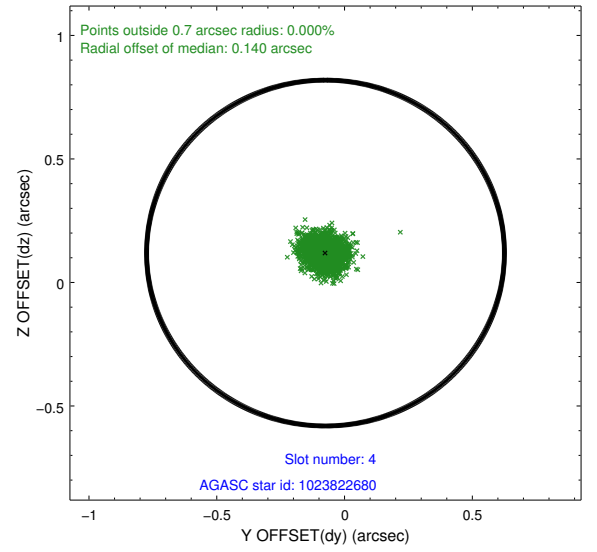
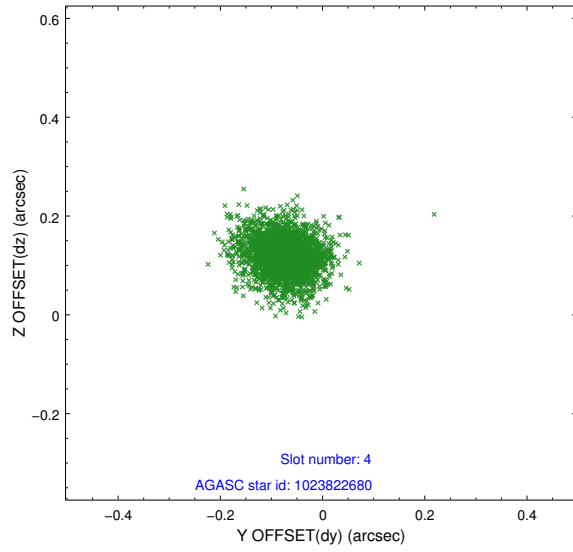
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1197	-0.052	-0.011	0.006	0.010	0.000000	0.000000	-759.27	-1732.21
1	FID	ACIS-S-4	7.20	1197	0.073	0.028	0.006	0.012	0.000000	0.000000	2153.53	175.08
2	FID	ACIS-S-5	7.23	1197	-0.052	-0.008	0.006	0.011	0.000000	0.000000	-1810.55	170.06
3	GUIDE	1023291688	8.67	2394	0.017	-0.230	0.065	0.103	210.168569	-41.185177	-84.47	1981.34
4	GUIDE	1023822680	8.88	2394	-0.075	0.119	0.060	0.099	211.176618	-41.286245	763.52	-636.56
5	GUIDE	1023824840	9.44	2392	0.062	0.034	0.101	0.158	210.682919	-41.618703	-888.06	52.99
6	GUIDE	1023829016	6.60	2393	-0.011	0.217	0.076	0.127	210.864452	-41.423345	-43.52	-85.71
7	GUIDE	1023292600	9.40	2391	0.007	-0.144	0.106	0.161	210.176441	-41.207792	-148.45	1926.68

## 2.4 Star Slots

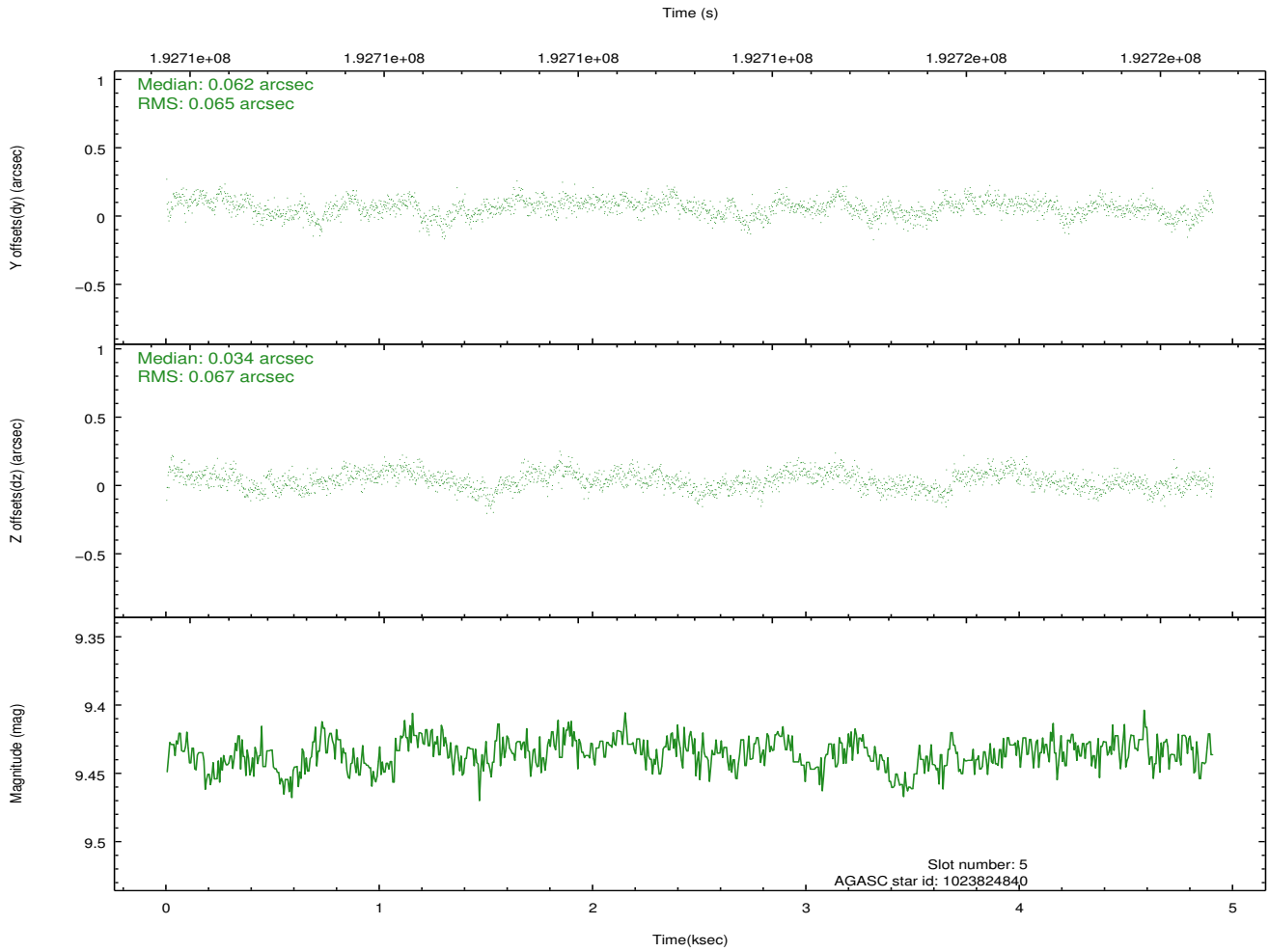
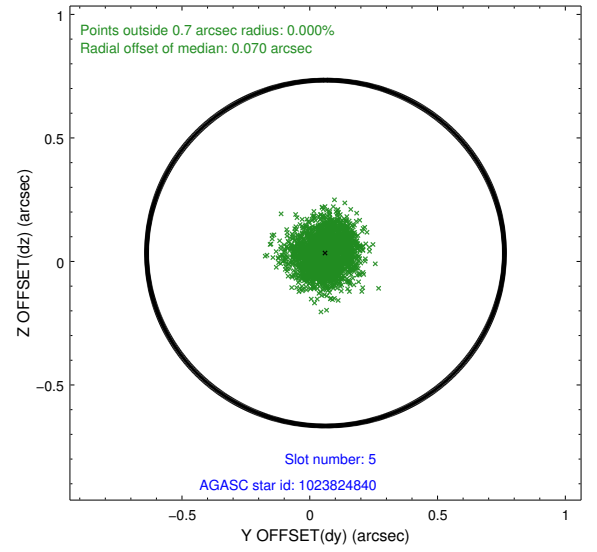
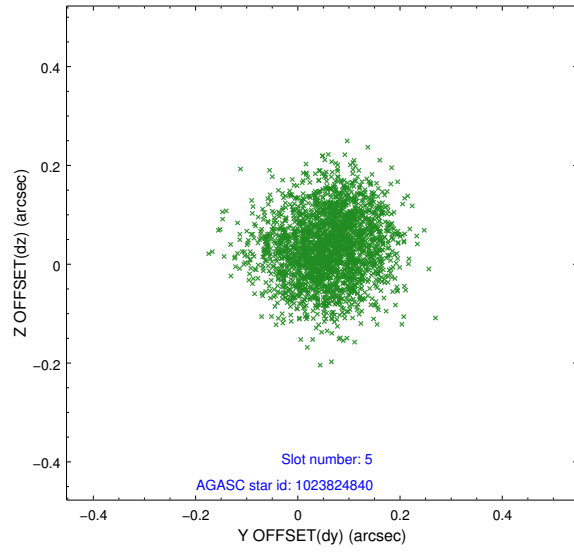
### 2.4.1 Slot 3



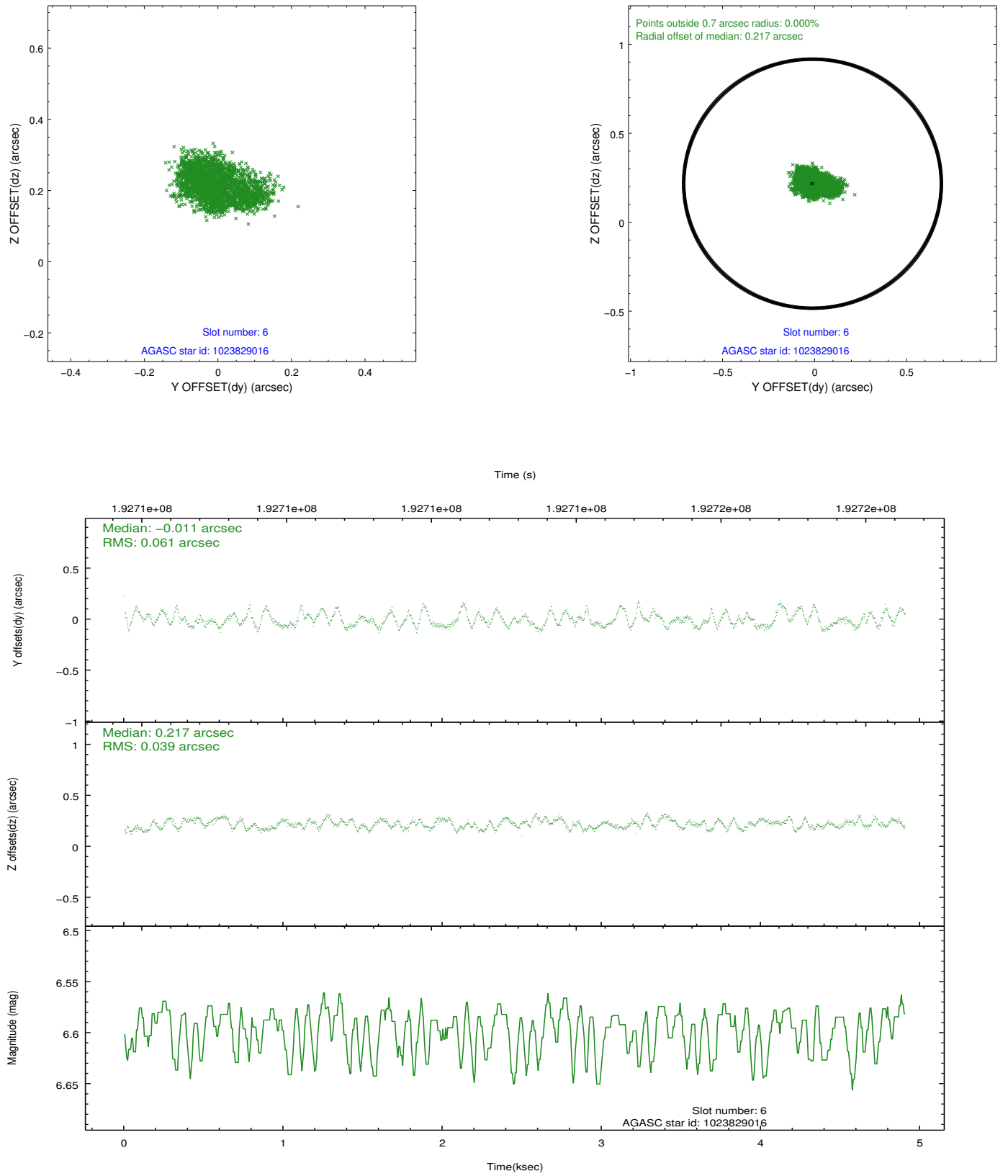
## 2.4.2 Slot 4



### 2.4.3 Slot 5

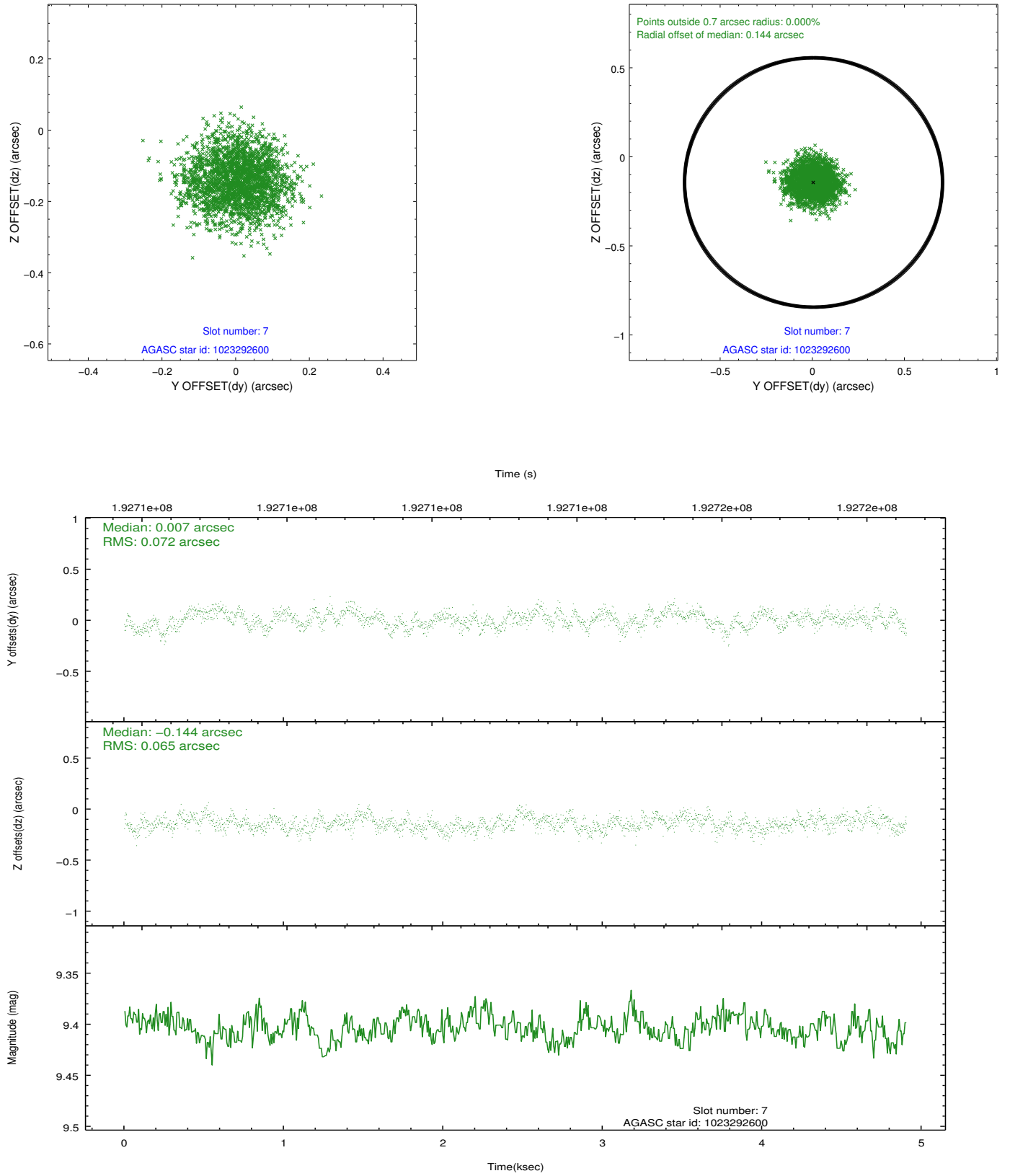


## 2.4.4 Slot 6



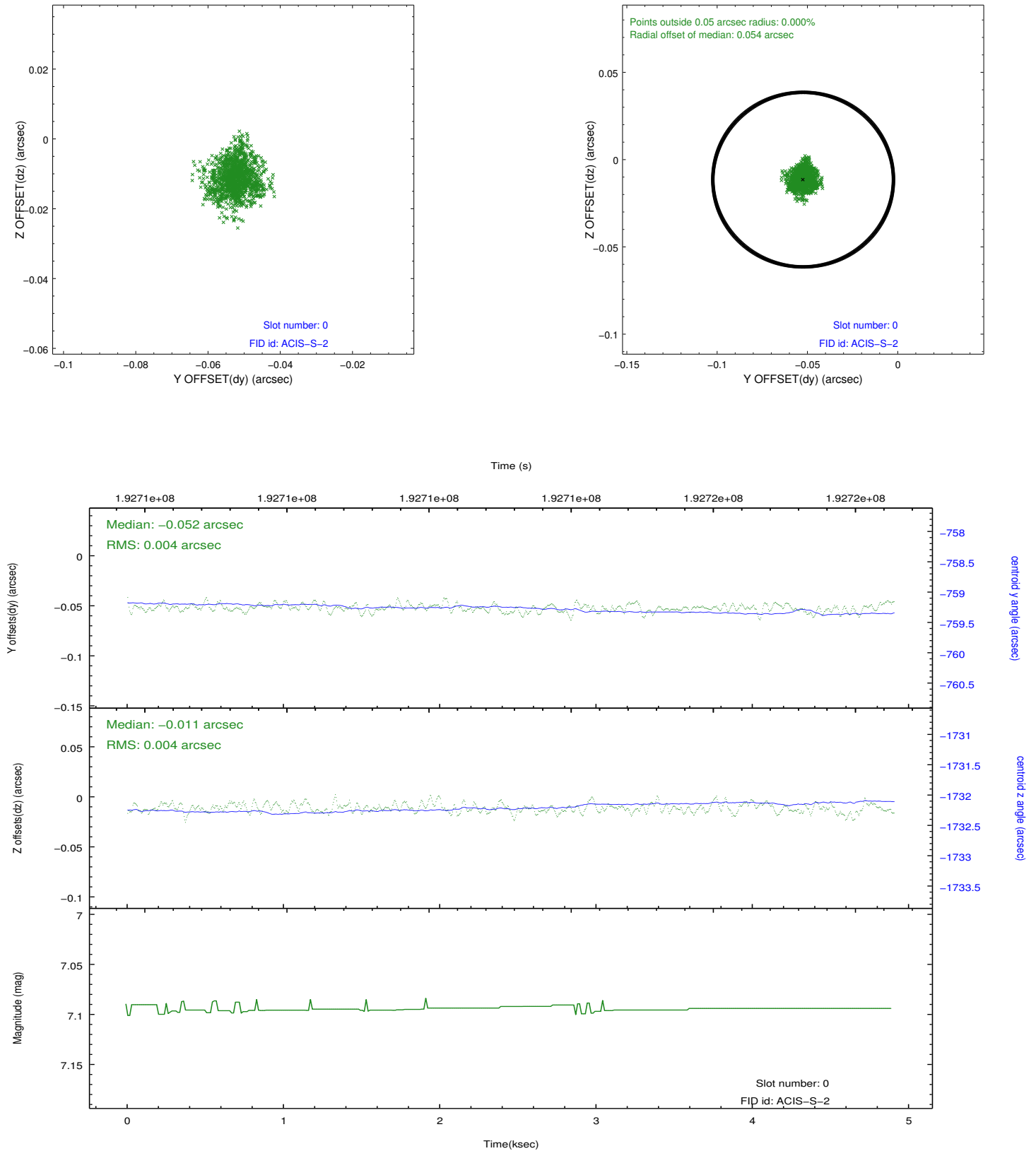


## 2.4.5 Slot 7

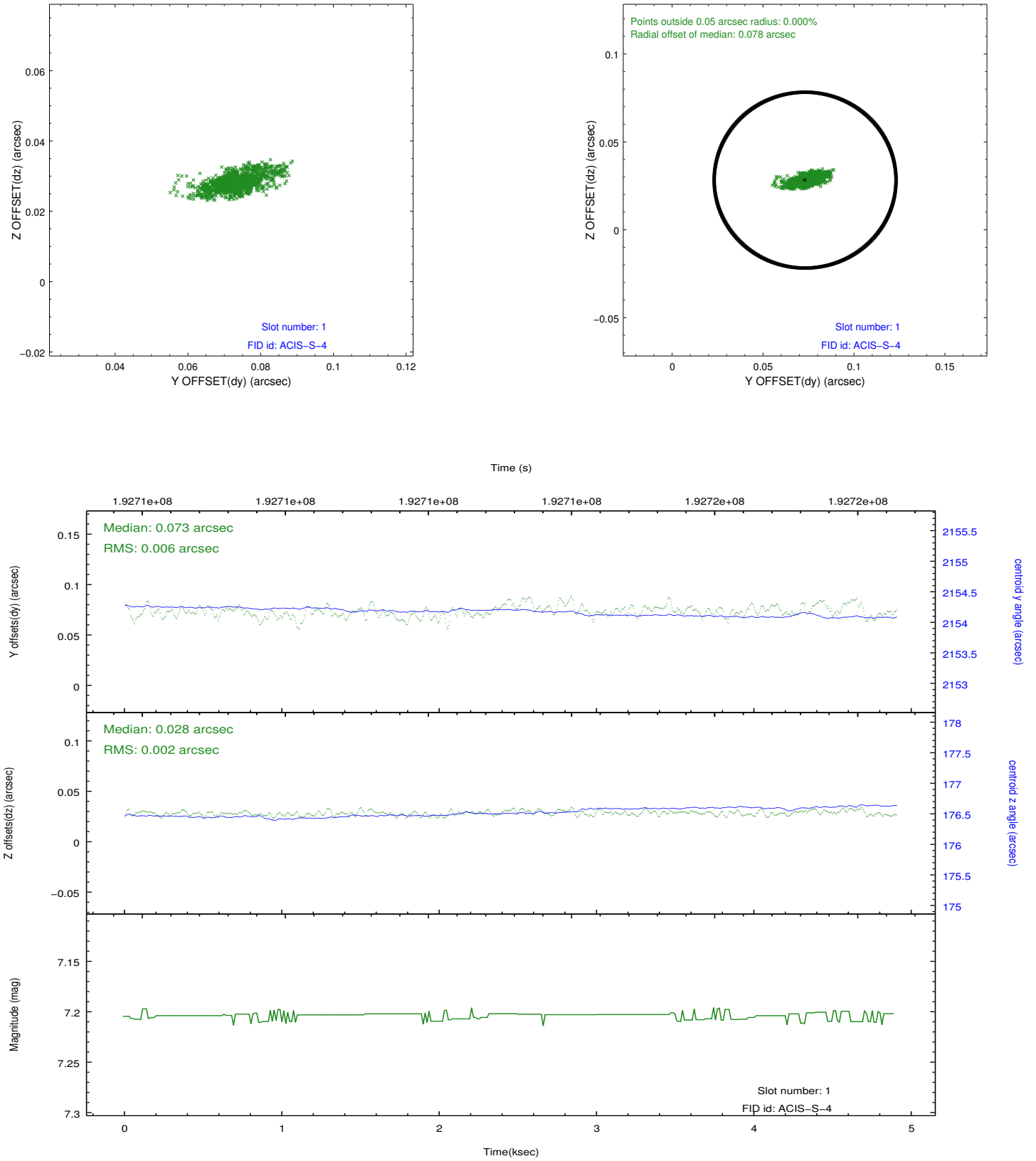


## 2.5 FID Slots

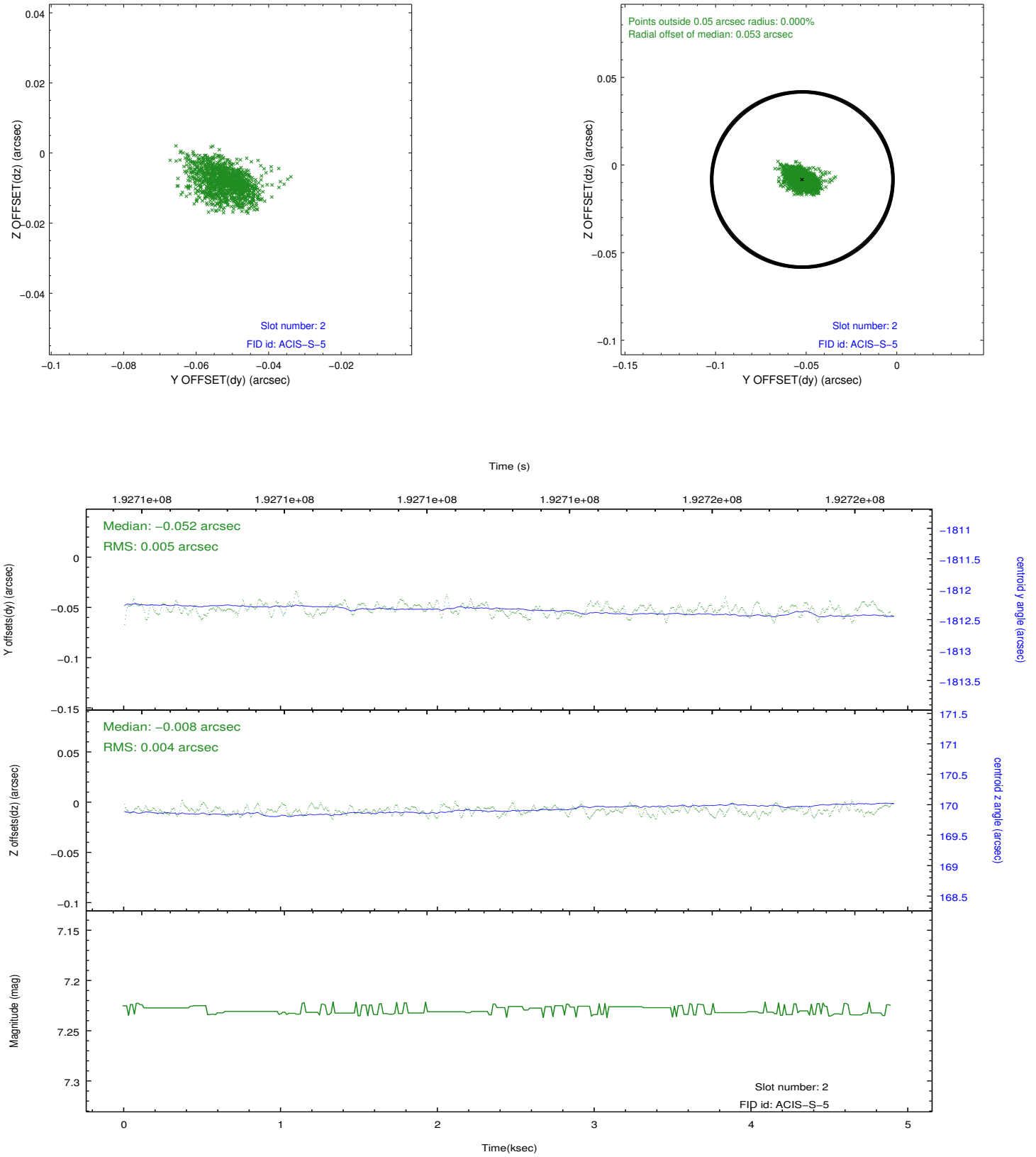
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.904

### A.2 Comments

Monitor constraint met. Joint Proposal: NRAO