

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 16273 - L2 Version 1  
Chandra X-Ray Center

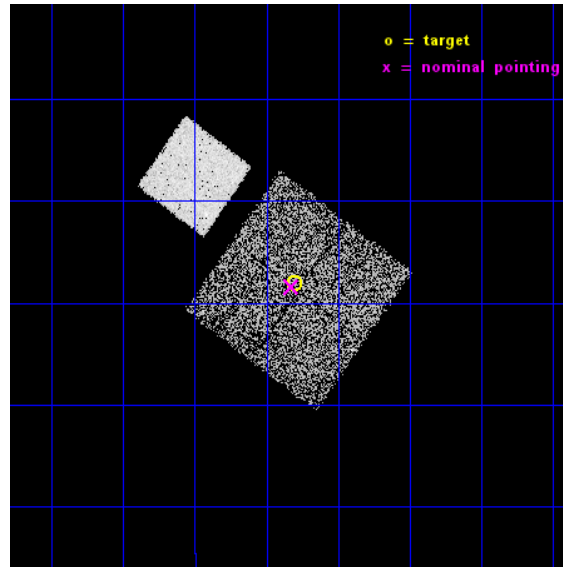
L2 Processing Date : Nov 27 2014

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# 1 Front

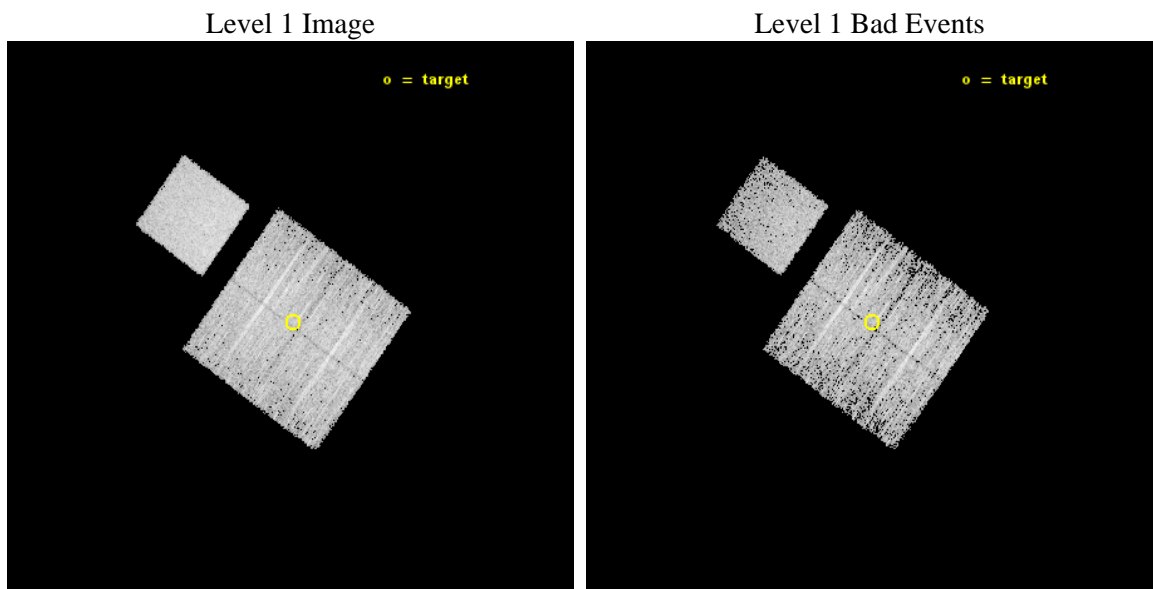
seq_num	703017	Sequence number
obs_id	16273	Observation id
title	X-ray Properties of Selected SDSS Stripe 82 Red Quasars	Proposal t
observer	Dr. Stephen Murray	Principal investigator
object	F2M0156-0058	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.2	Observer's specified target RA [deg]
dec_targ	-0.968611	Observer's specified target Dec [deg]
ra_nom	29.206578573141	Nominal RA [deg]
dec_nom	-0.97355092400632	Nominal Dec [deg]
roll_nom	305.93001305432	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6069.4979500771	Sum of GTIs [s]
livetime	5990.1954910599	Livetime [s]
ontime0	6069.3748300672	Sum of GTIs [s]
ontime1	6069.4158700705	Sum of GTIs [s]
ontime2	6066.3158398271	Sum of GTIs [s]
ontime3	6069.4979500771	Sum of GTIs [s]
ontime7	6069.5389900804	Sum of GTIs [s]
l2events	30903	Number of level 2 events



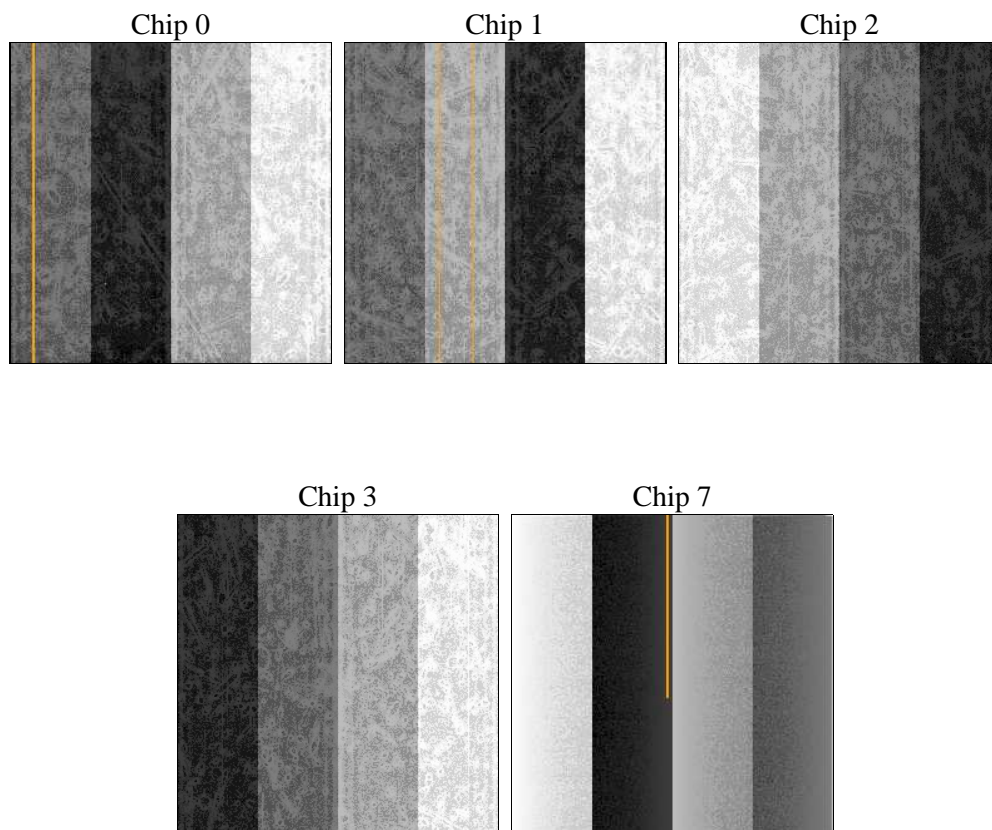
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.703000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	6069.4979500771	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime0	6069.3748300672	Sum of GTIs [s]
date	2014-11-28T02:57:35	Date and time of file creation	ontime1	6069.4158700705	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6066.3158398271	Sum of GTIs [s]
			ontime3	6069.4979500771	Sum of GTIs [s]
			ontime7	6069.5389900804	Sum of GTIs [s]
			l1events	169321	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	29864	32923	30910	31960	43664
rejected events	26118	28806	27394	28469	24777
rejected %	87%	87%	88%	89%	56%

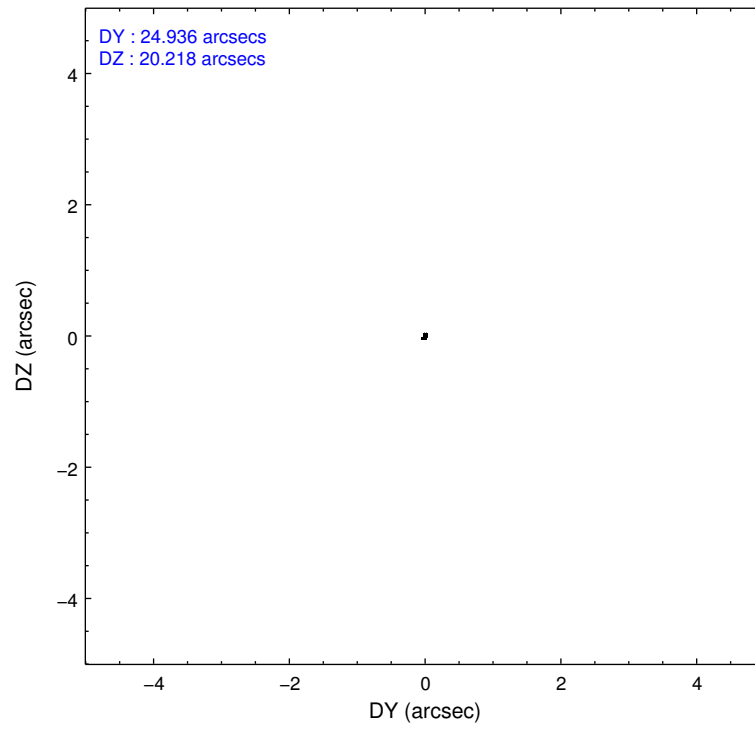
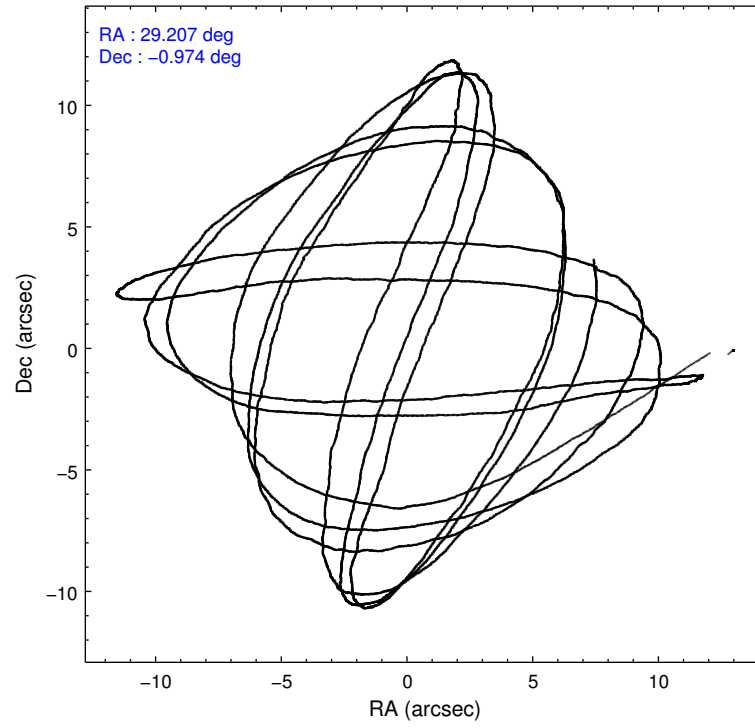
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1289	1416	1247	1176	1513
	4%	4%	4%	3%	3%
grade 1 events	18	18	18	32	42
	0%	0%	0%	0%	0%
grade 2 events	866	949	830	788	4000
	2%	2%	2%	2%	9%
grade 3 events	413	393	355	383	1481
	1%	1%	1%	1%	3%
grade 4 events	383	391	341	344	1506
	1%	1%	1%	1%	3%
grade 5 events	1512	1583	1363	1769	4147
	5%	4%	4%	5%	9%
grade 6 events	800	973	745	803	10401
	2%	2%	2%	2%	23%
grade 7 events	24583	27200	26011	26665	20574
	82%	82%	84%	83%	47%

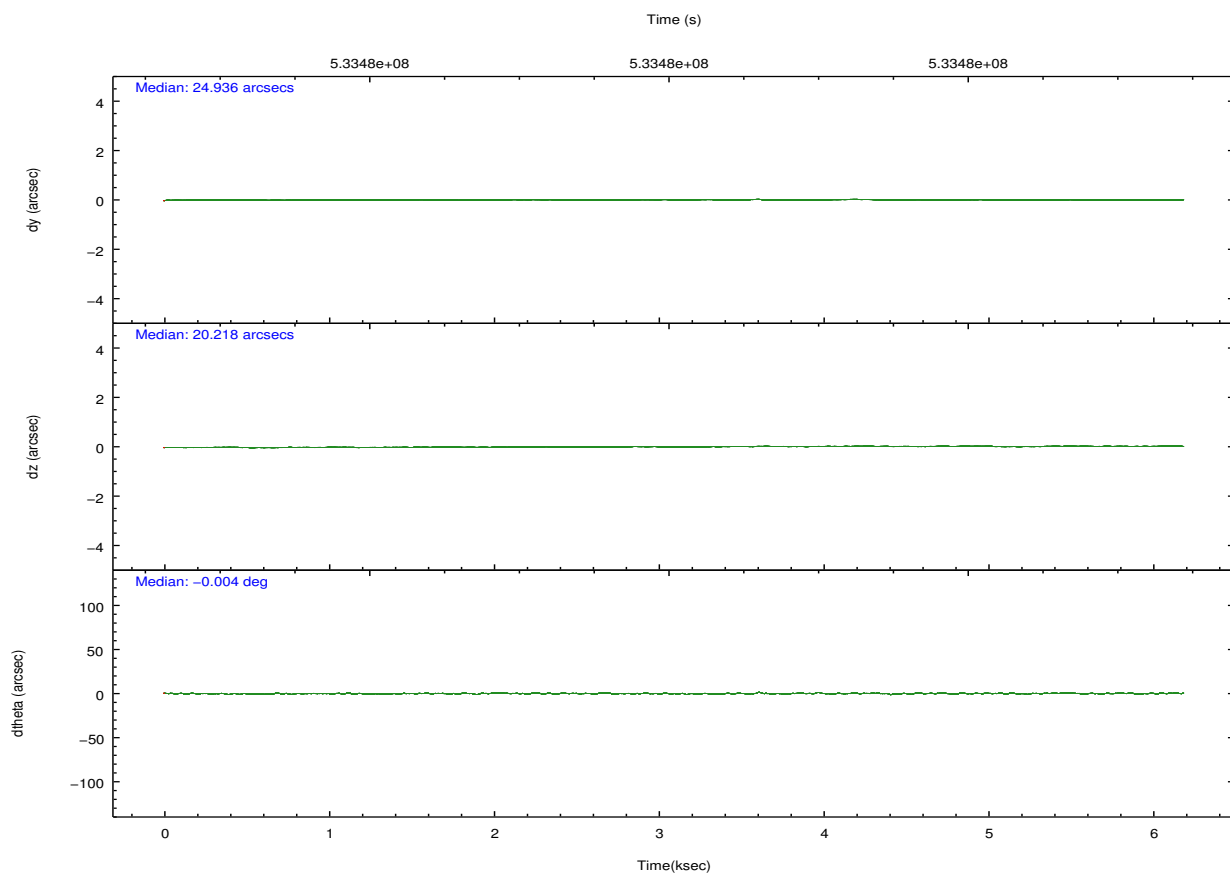
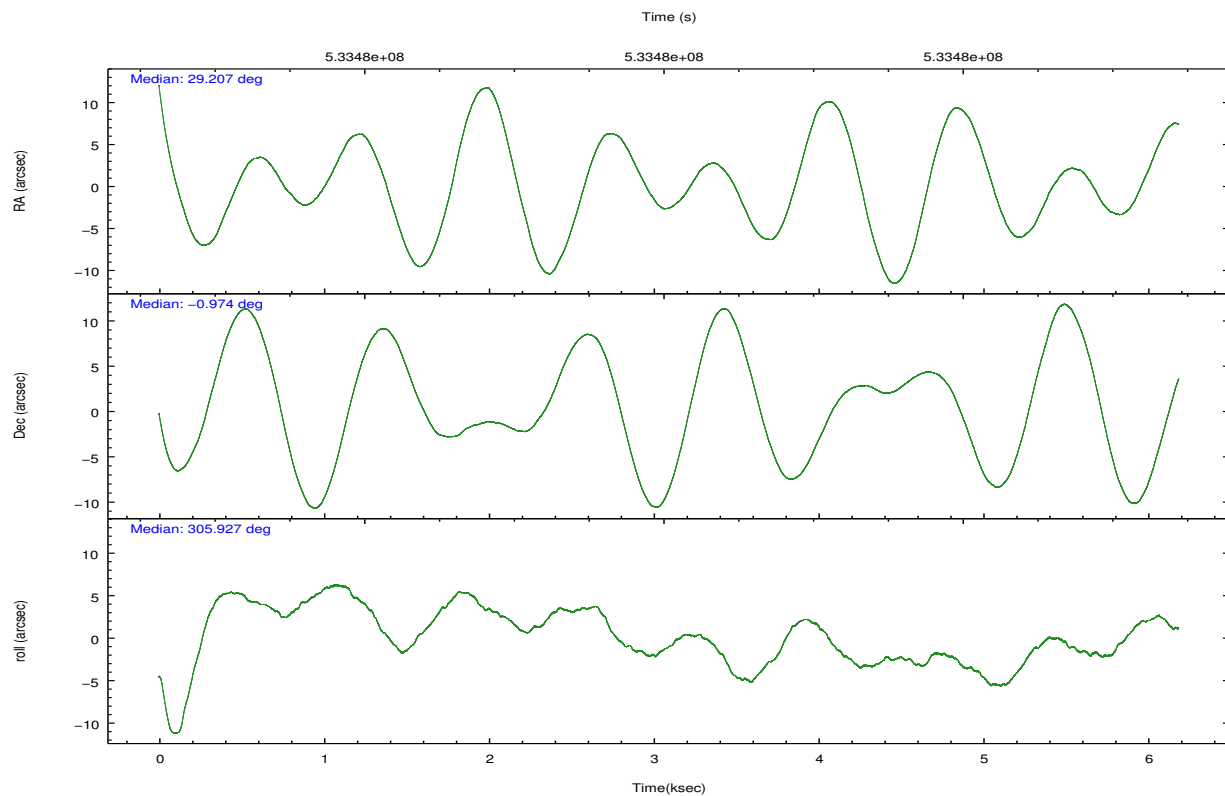


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	29.181325	29.20657857314104	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.962333	-0.9735509240063216	CCD I3 on	Y	Y
[deg] Pointing Roll	305.720885	305.9300130543167	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	533479125.184000	533478119.39842	CCD S5 on	N	N
Observation start date	2014-11-27T12:37:38	2014-11-27T12:21:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	533485125.184000	533485362.04883	On-chip summing requested	N	N
Observation end date	2014-11-27T14:17:38	2014-11-27T14:22:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



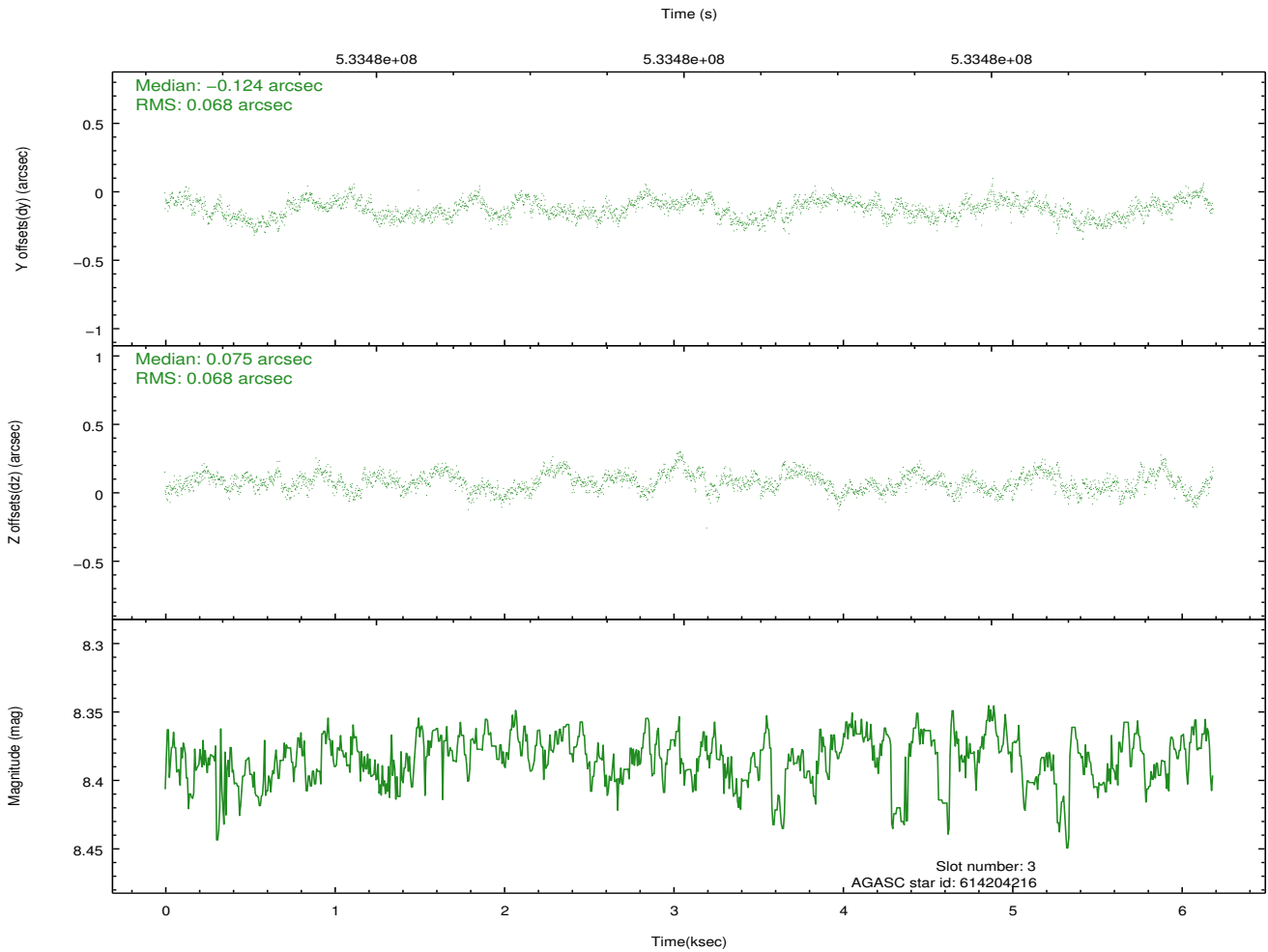
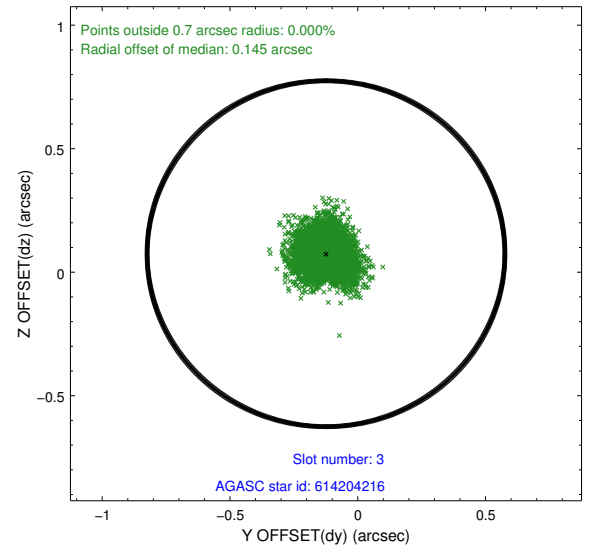
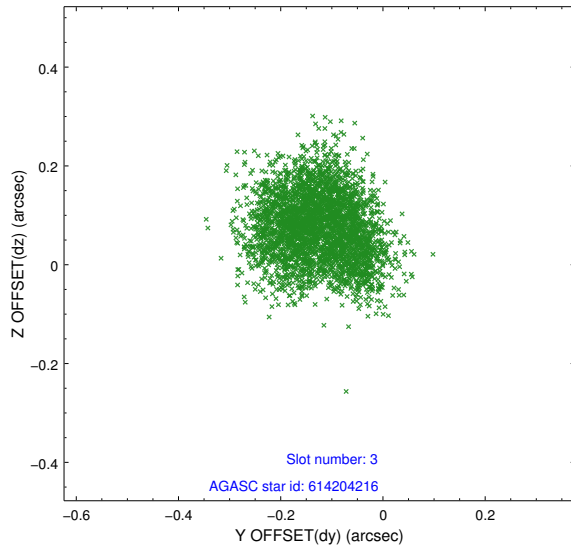


### Slot Statistics

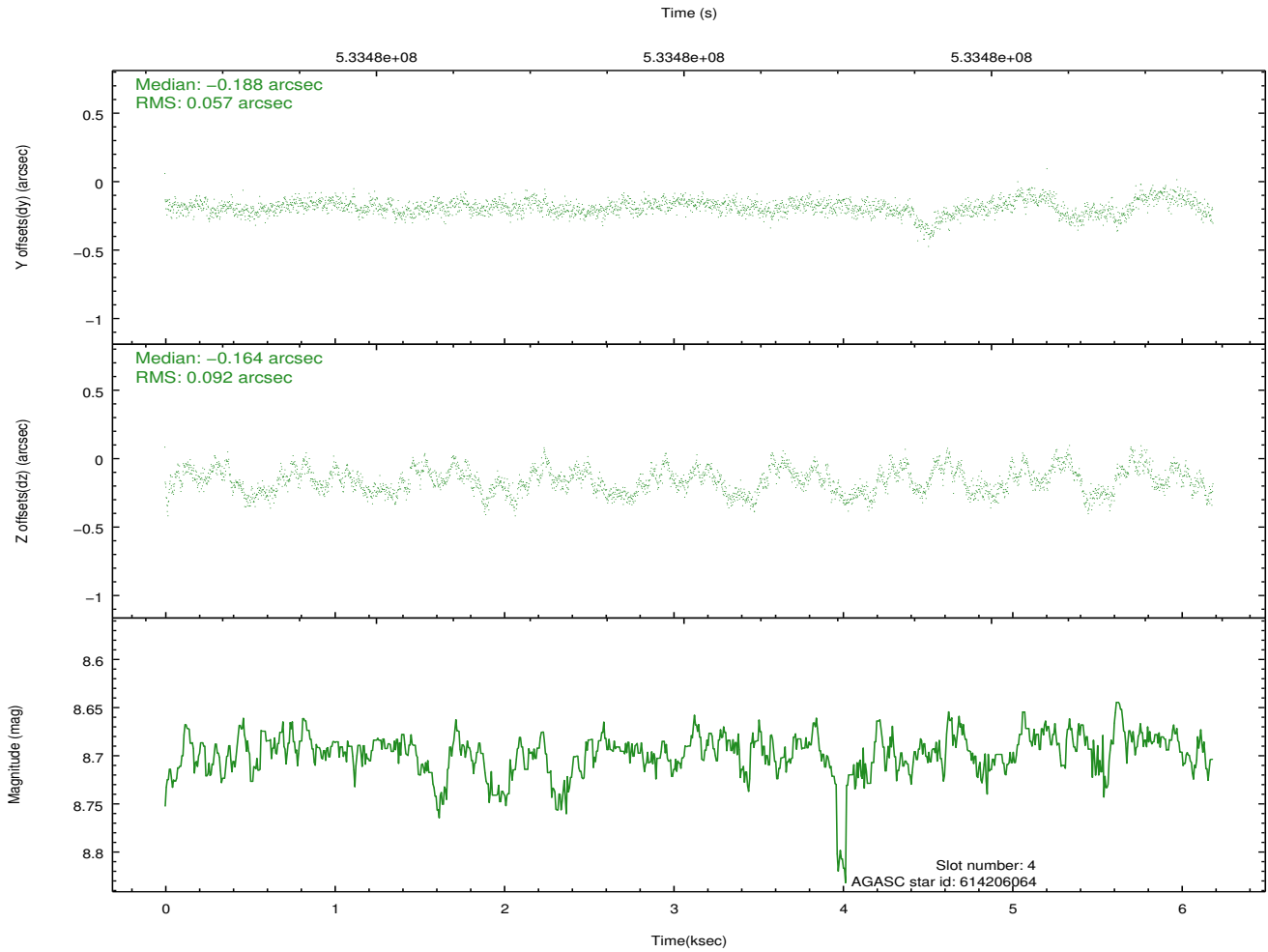
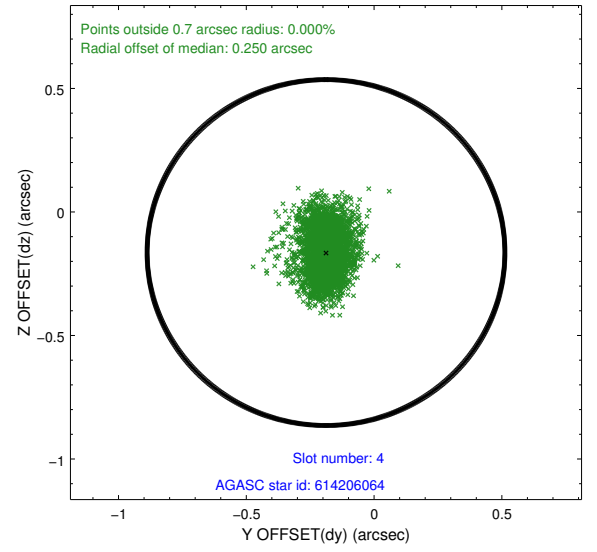
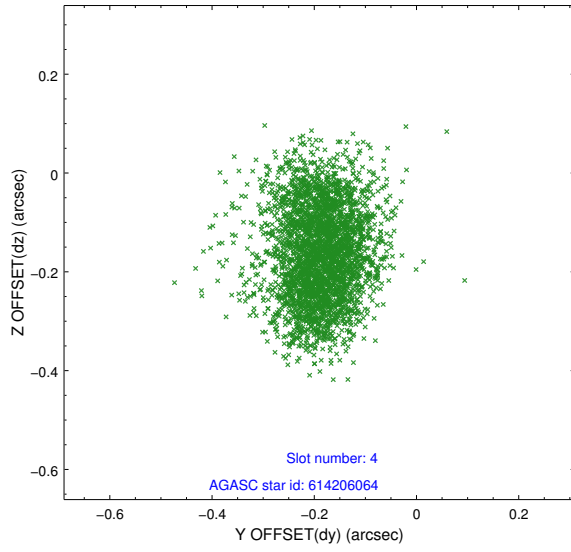
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.23	1510	0.064	-0.039	0.007	0.012	0.000000	0.000000	914.34	-843.95
1	FID		ACIS-I-5	7.23	1509	-0.317	0.035	0.006	0.011	0.000000	0.000000	-1833.69	1053.03
2	FID		ACIS-I-6	7.23	1509	0.161	0.074	0.007	0.011	0.000000	0.000000	378.85	1698.73
3	GUIDE	used	614204216	8.38	3018	-0.124	0.075	0.104	0.161	29.234942	-0.240997	-1995.75	1672.90
4	GUIDE	used	614206064	8.70	3019	-0.188	-0.164	0.117	0.189	29.788440	-1.006441	1404.05	1682.49
5	GUIDE	used	614207008	10.01	2966	-0.072	0.064	0.275	0.408	28.998081	-0.578440	-1506.76	271.86
6	GUIDE	used	614208096	9.42	3019	0.377	0.138	0.155	0.245	28.605478	-0.810535	-1653.71	-1363.76
7	GUIDE	used	614596712	9.50	3017	-0.004	-0.124	0.149	0.250	30.003459	-1.201682	2427.93	1900.88

## 2.4 Star Slots

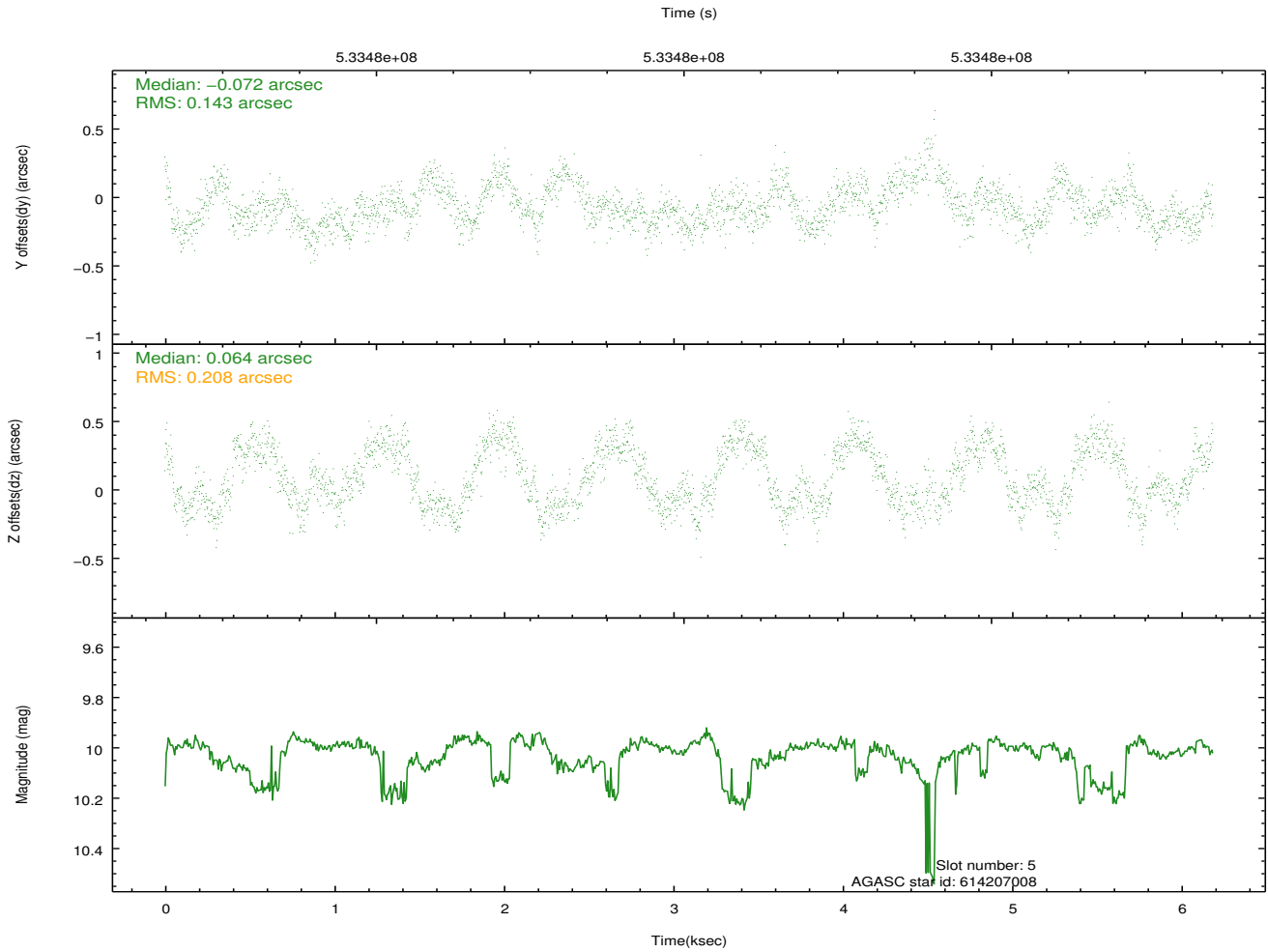
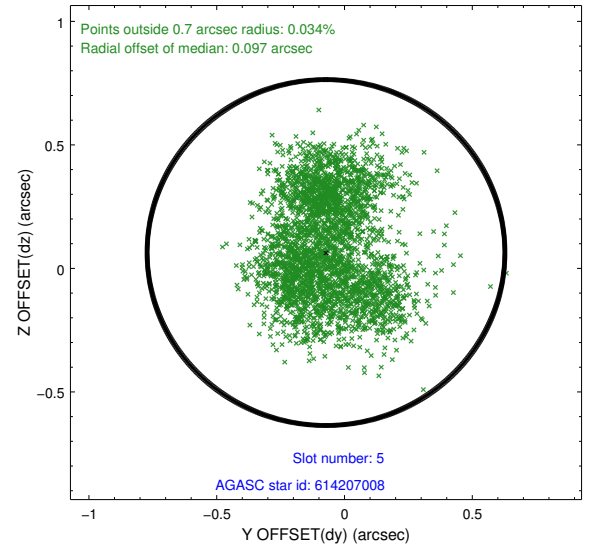
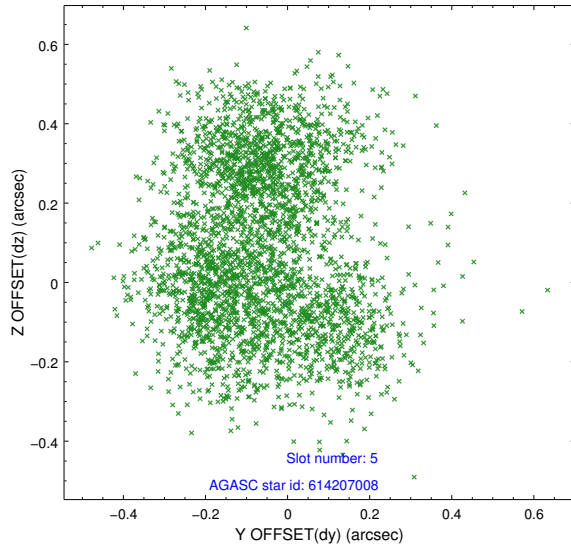
### 2.4.1 Slot 3



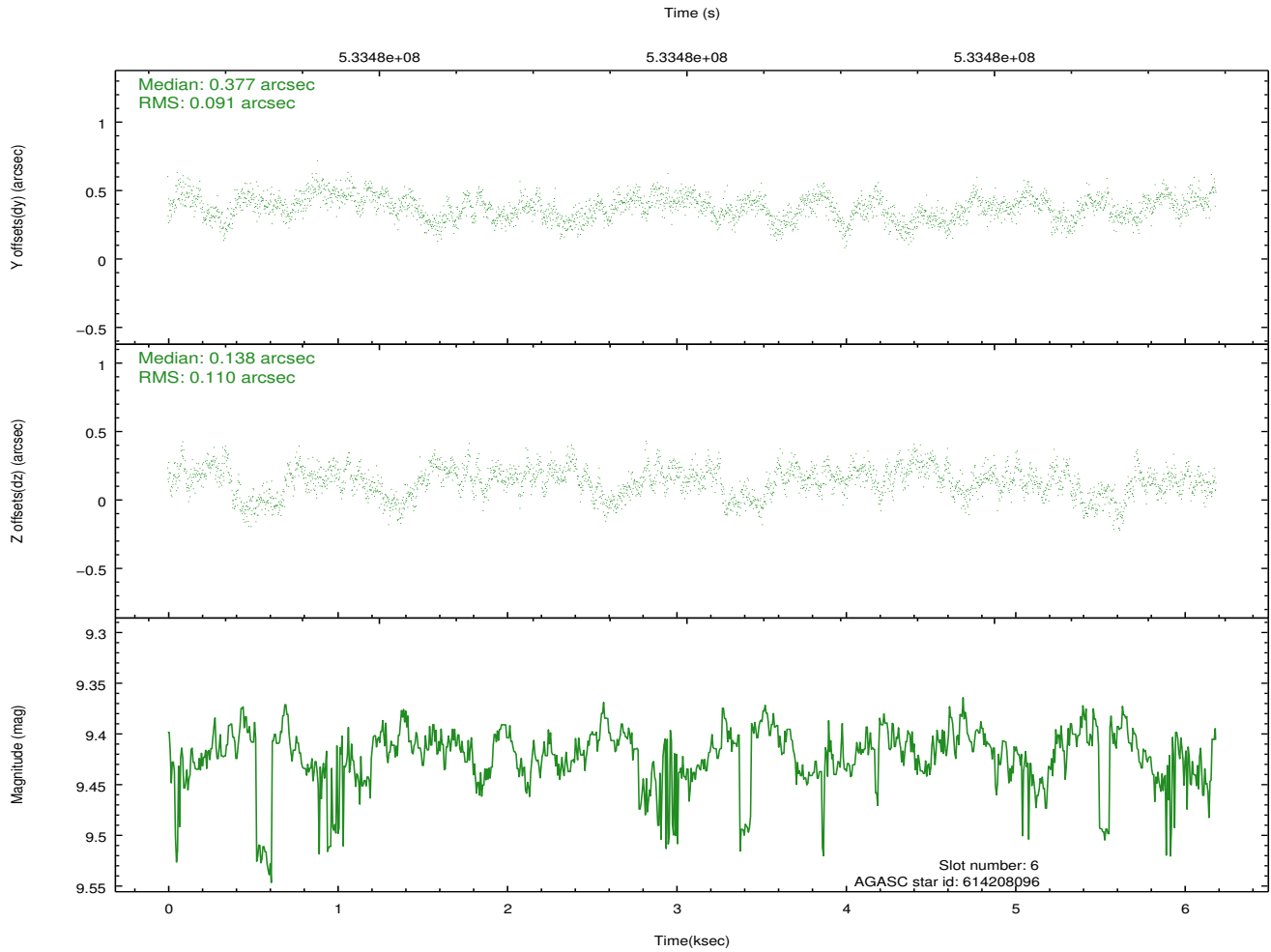
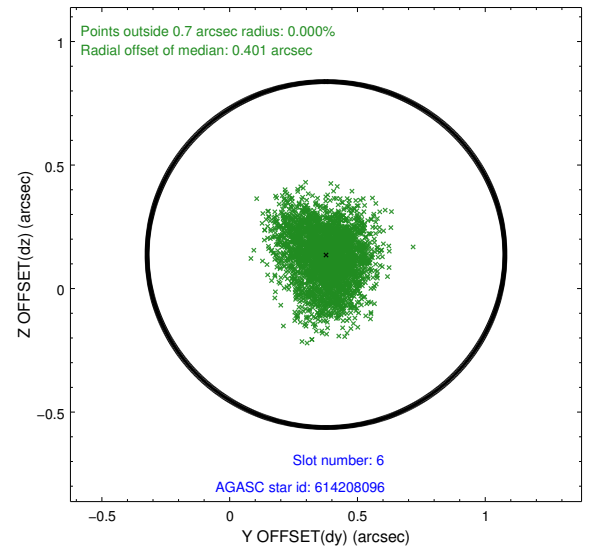
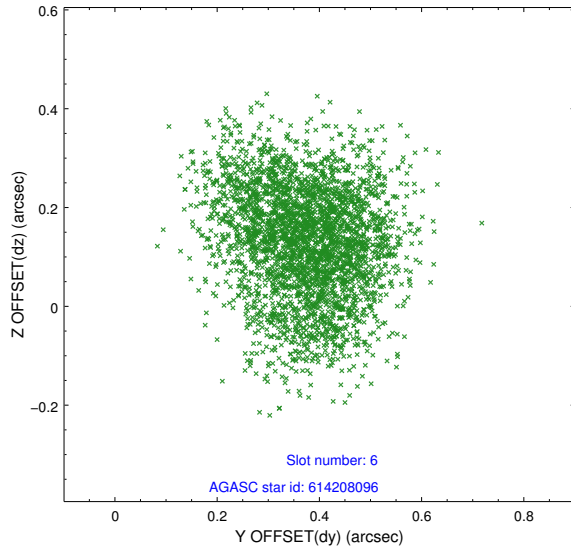
## 2.4.2 Slot 4



### 2.4.3 Slot 5

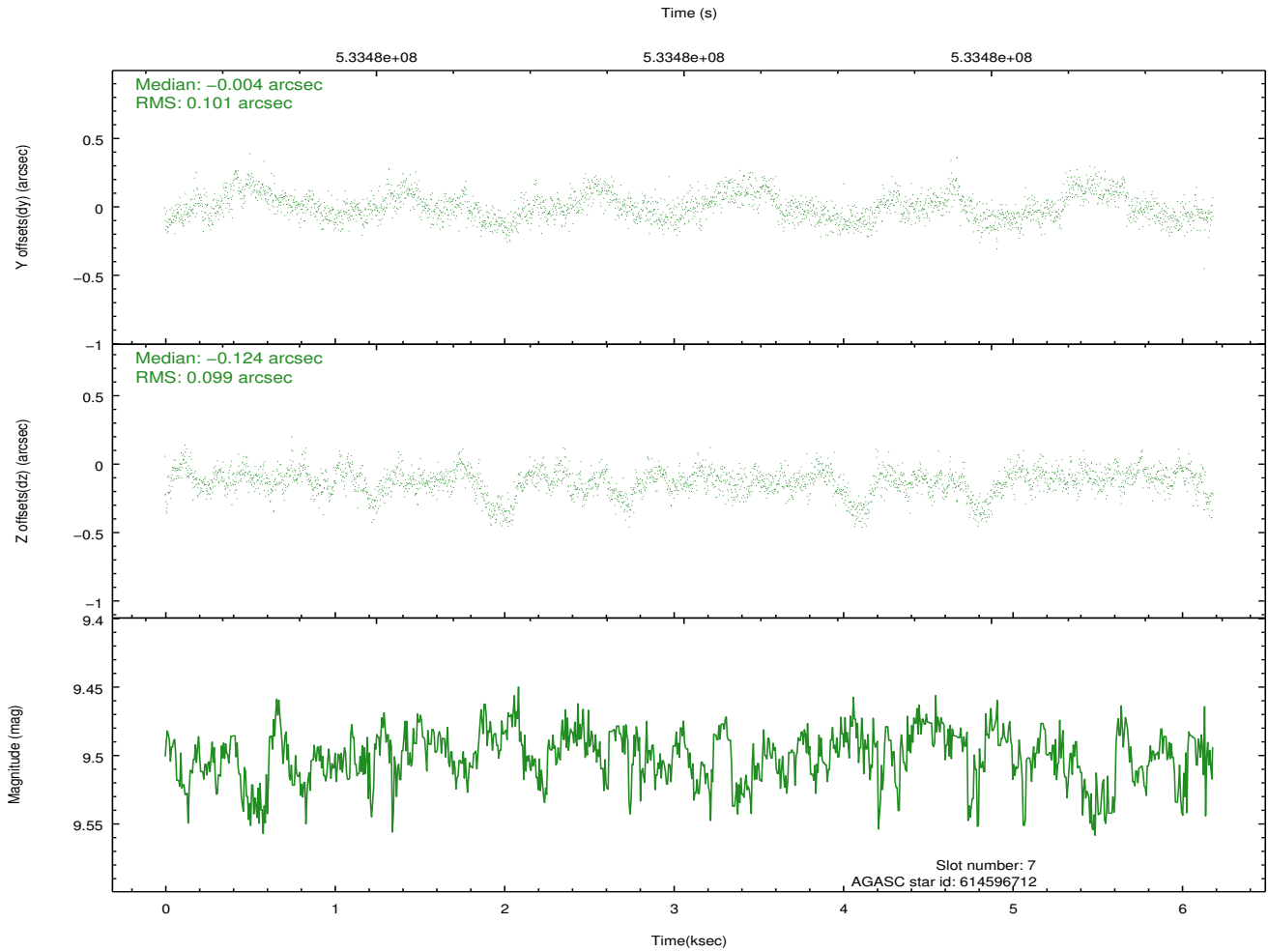
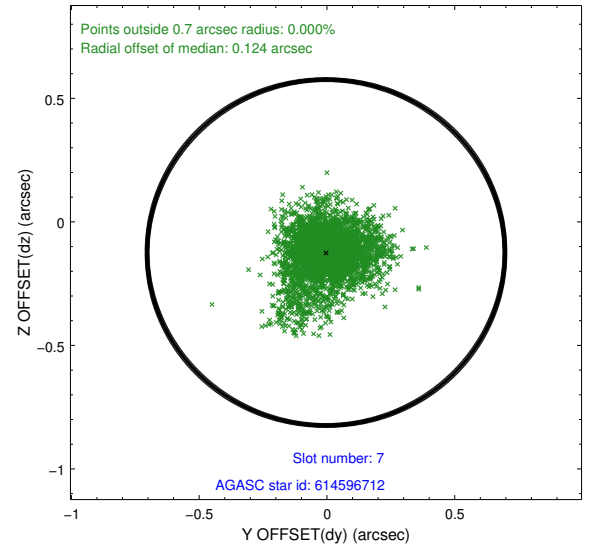
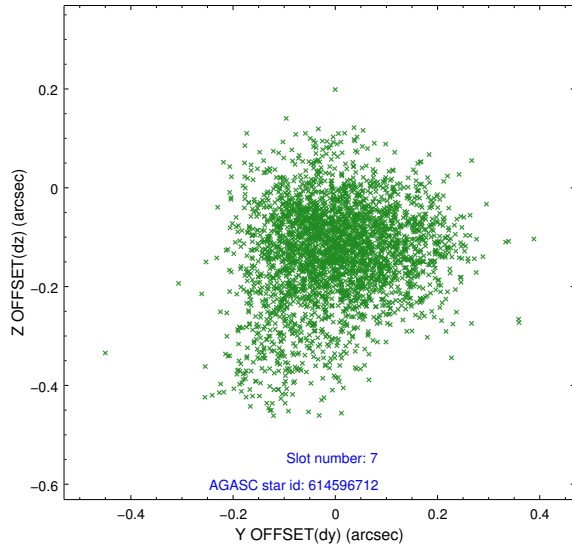


## 2.4.4 Slot 6



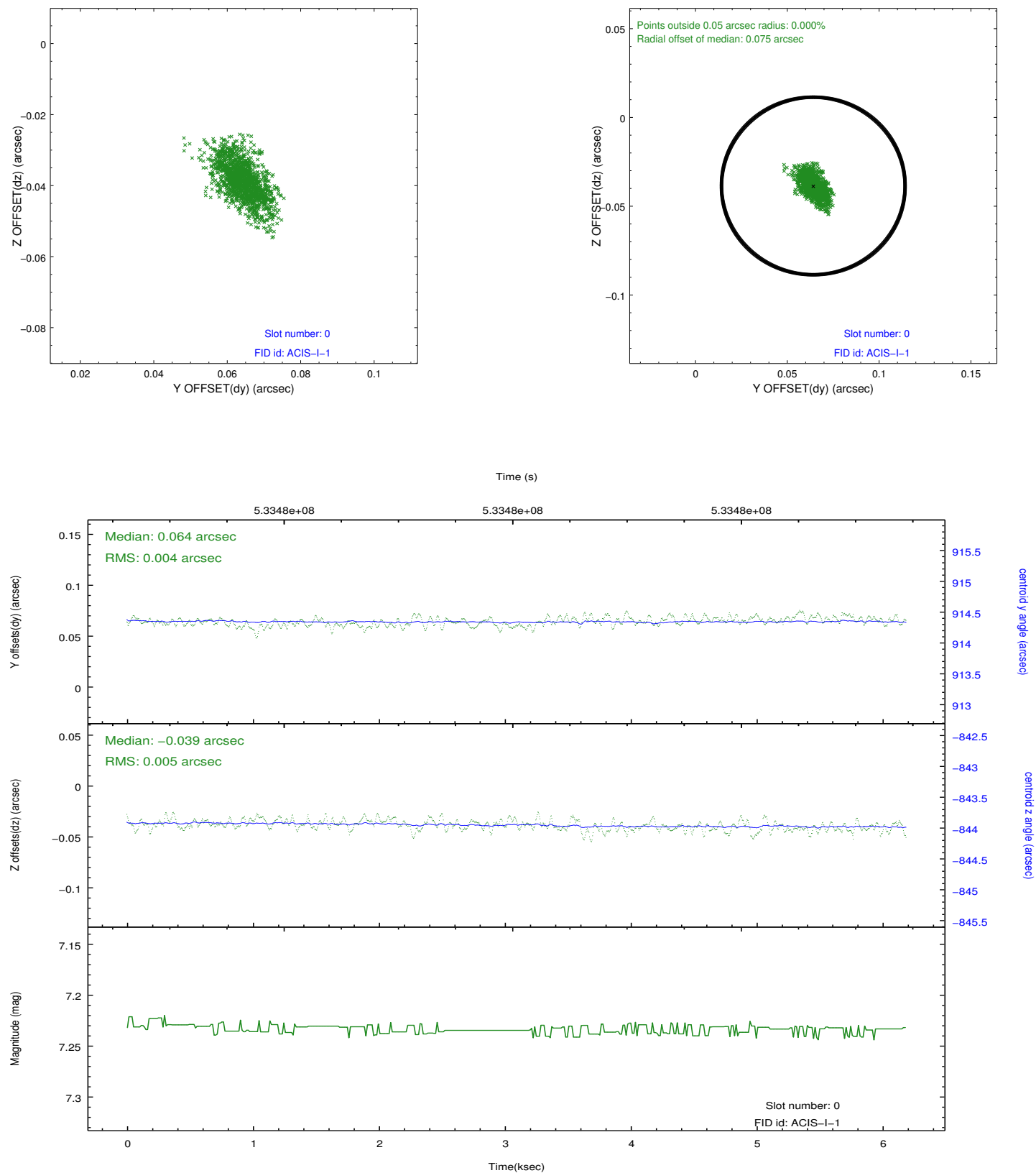


## 2.4.5 Slot 7

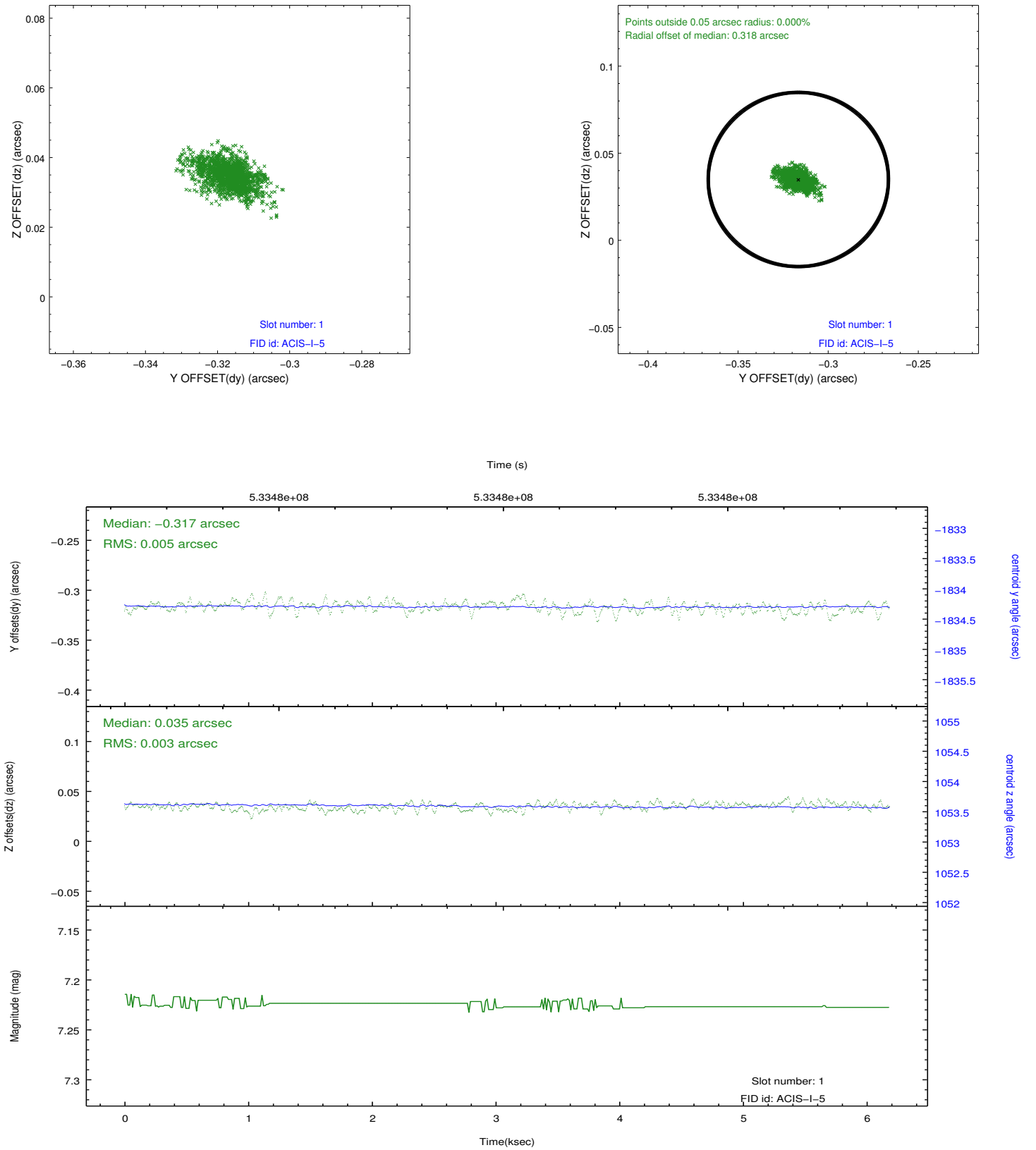


## 2.5 FID Slots

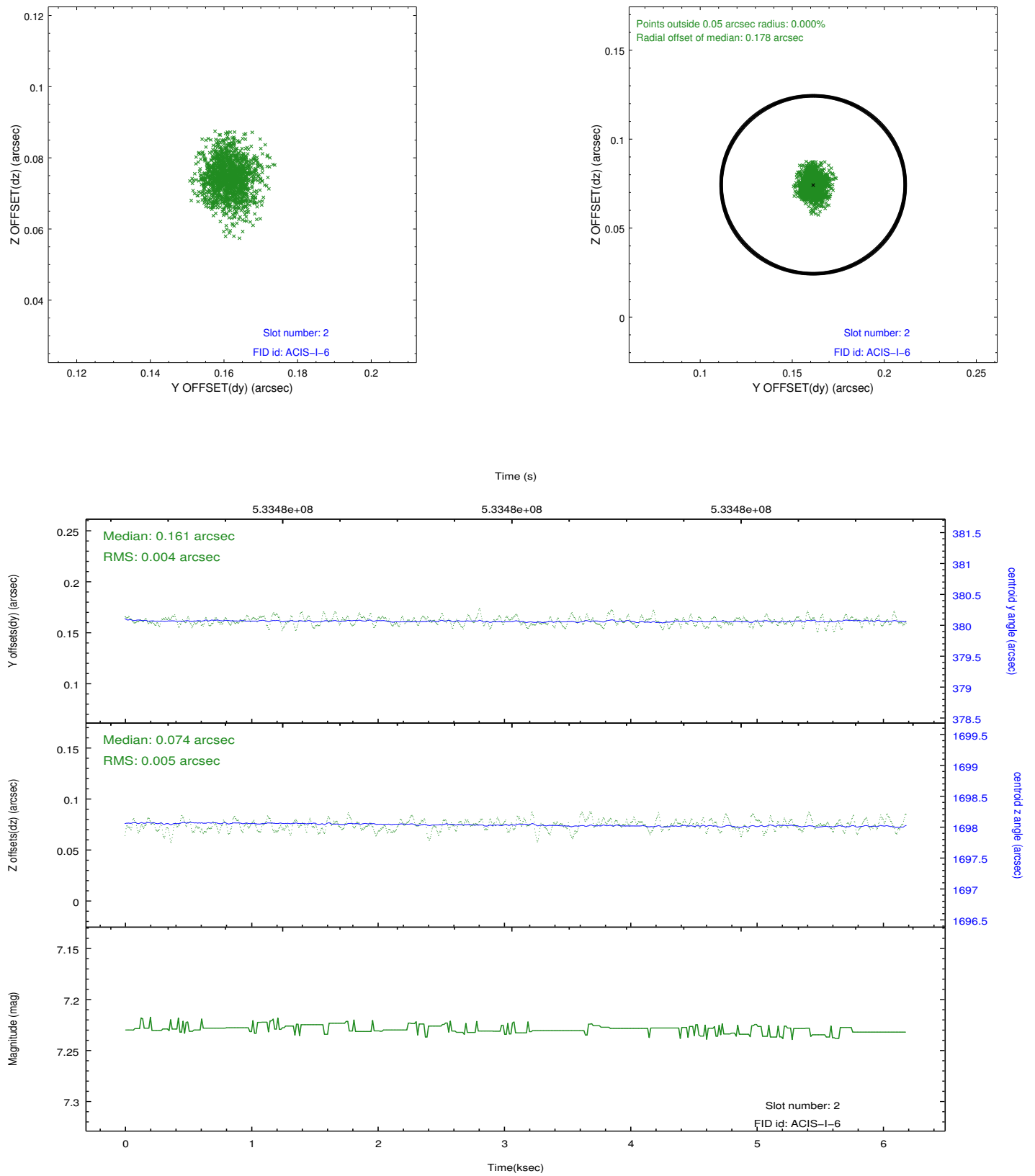
### 2.5.1 Slot 0



## 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)	2014.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0694979500771

### A.2 Comments