

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9011 - L2 Version 2  
Chandra X-Ray Center

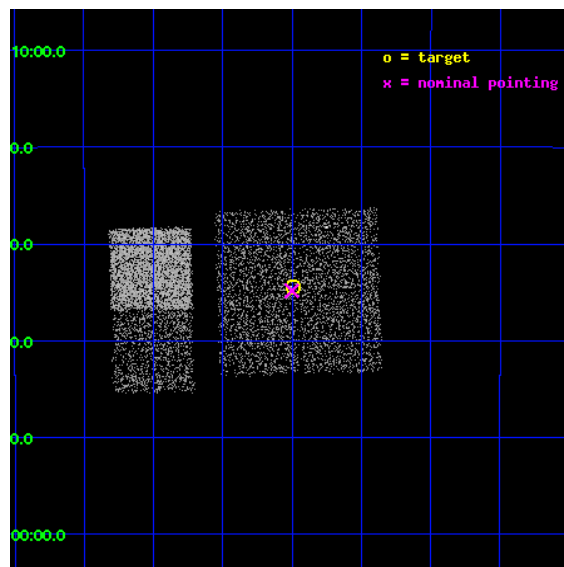
L2 Processing Date : May 20 2012

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# 1 Front

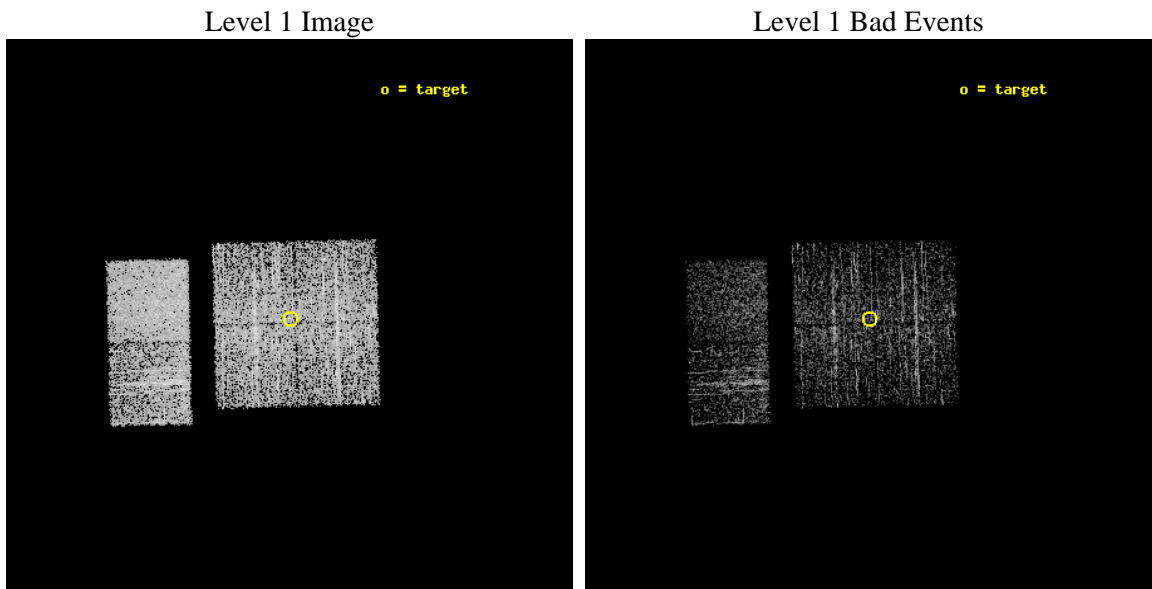
seq_num	400862	Sequence number
obs_id	9011	Observation id
title	Chandra observations of an enigmatic class of faint accreting slow pulsators	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	AX J1820.5-1434	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.122917	Observer's specified target RA [deg]
dec_targ	-14.573333	Observer's specified target Dec [deg]
ra_nom	275.1253846167	Nominal RA [deg]
dec_nom	-14.5808879929	Nominal Dec [deg]
roll_nom	268.54075492134	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1151.9999957681	Sum of GTIs [s]
livetime	1137.4126781705	Livetime [s]
ontime0	1151.9999957681	Sum of GTIs [s]
ontime1	1151.9999957681	Sum of GTIs [s]
ontime2	1151.9999957681	Sum of GTIs [s]
ontime3	1151.9999957681	Sum of GTIs [s]
ontime6	1151.9999957681	Sum of GTIs [s]
ontime7	1151.9999957681	Sum of GTIs [s]
l2events	12785	Number of level 2 events



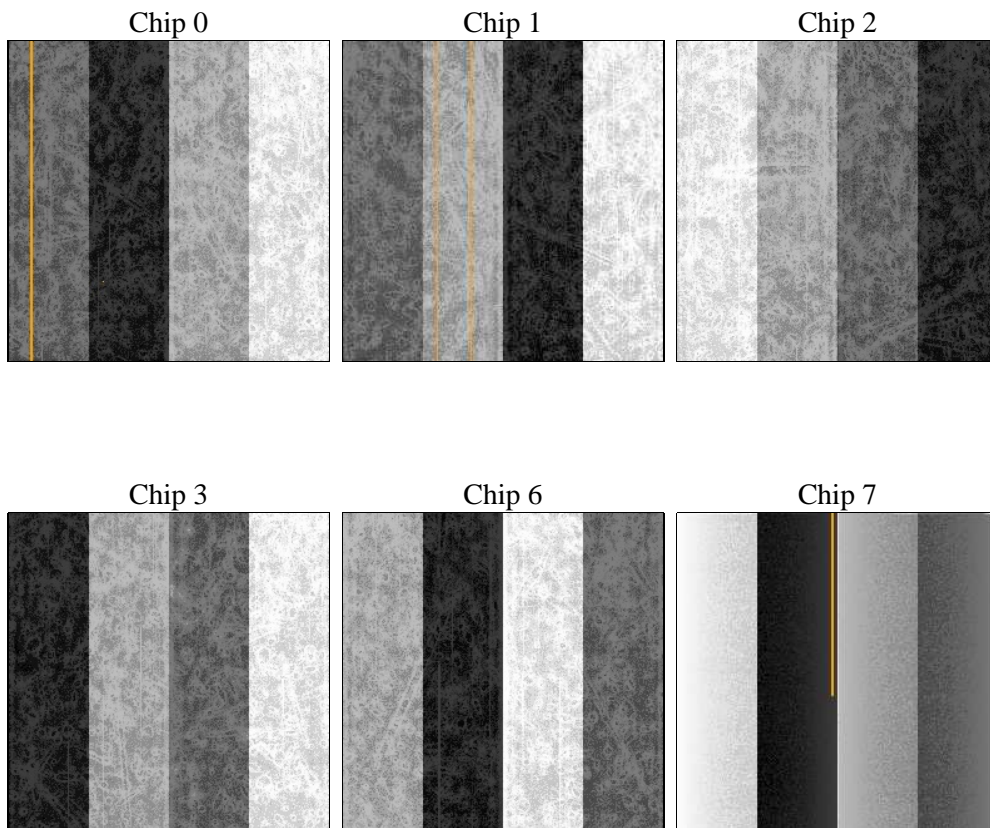
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1151.9999957681	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	1151.9999957681	Sum of GTIs [s]
date	2012-05-20T21:03:03	Date and time of file creation	ontime1	1151.9999957681	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1151.9999957681	Sum of GTIs [s]
			ontime3	1151.9999957681	Sum of GTIs [s]
			ontime6	1151.9999957681	Sum of GTIs [s]
			ontime7	1151.9999957681	Sum of GTIs [s]
			l1events	82972	Number of level 1 events

### 2.1.4 Events

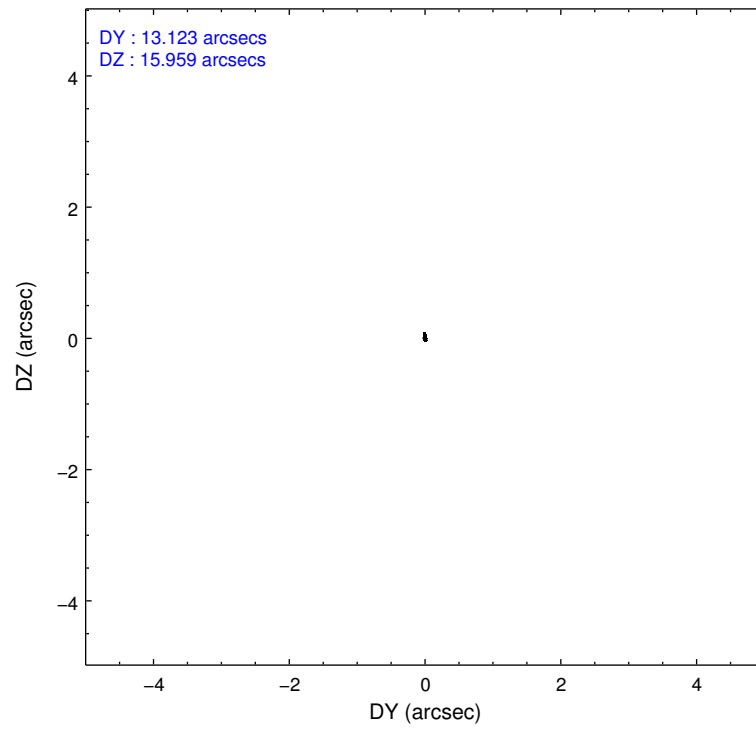
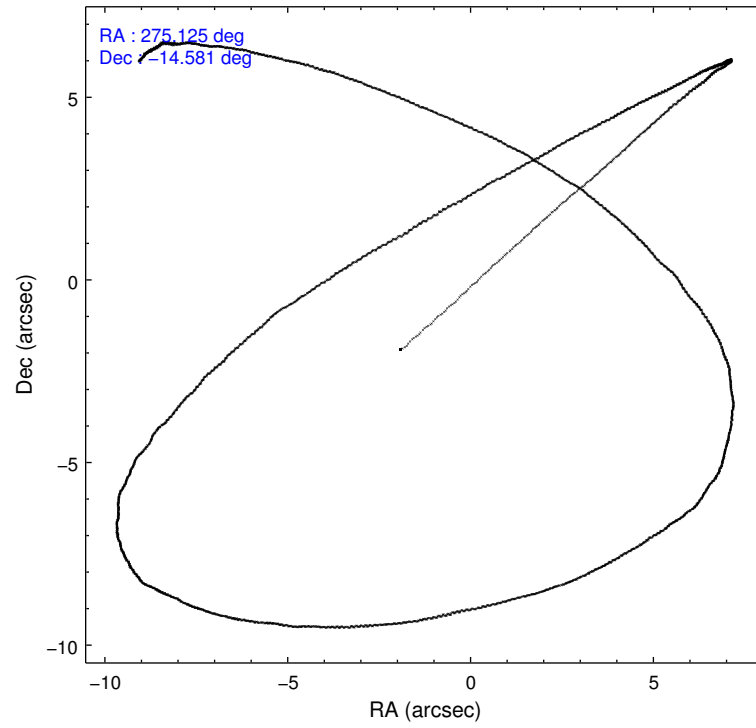
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	12132	12522	13143	12899	13373	18903
rejected events	10680	10924	11687	11483	11934	12392
rejected %	88%	87%	88%	89%	89%	65%

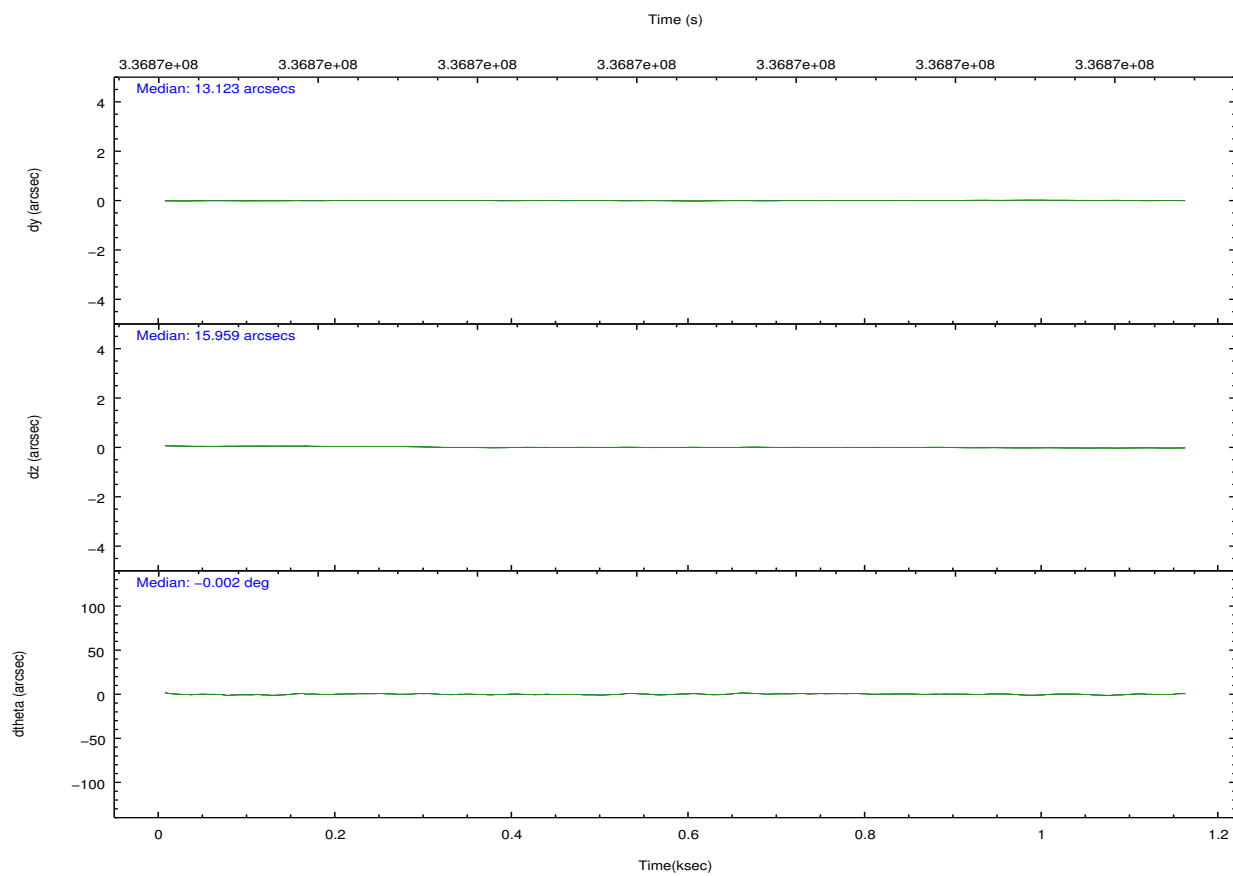
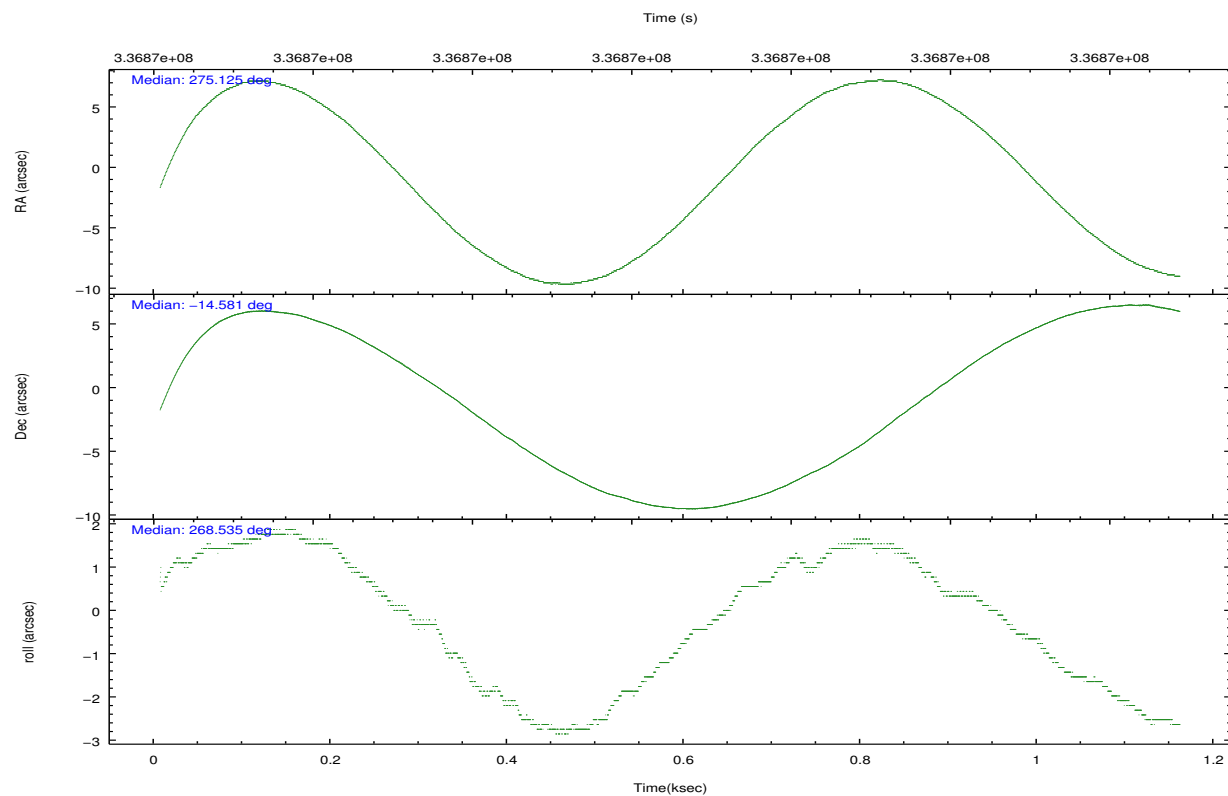
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	774	809	800	808	698	708
	6%	6%	6%	6%	5%	3%
grade 1 events	9	2	12	8	11	12
	0%	0%	0%	0%	0%	0%
grade 2 events	364	416	376	367	379	1637
	3%	3%	2%	2%	2%	8%
grade 3 events	169	175	170	123	152	657
	1%	1%	1%	0%	1%	3%
grade 4 events	146	158	151	161	142	662
	1%	1%	1%	1%	1%	3%
grade 5 events	565	634	517	631	625	1761
	4%	5%	3%	4%	4%	9%
grade 6 events	310	361	272	265	355	4233
	2%	2%	2%	2%	2%	22%
grade 7 events	9795	9967	10845	10536	11011	9233
	80%	79%	82%	81%	82%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	275.111521	275.1253846167048	CCD I2 on	Y	Y
[deg] Pointing Dec	-14.557007	-14.58088799290002	CCD I3 on	Y	Y
[deg] Pointing Roll	268.328531	268.5407549213423	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	336872036.184000	336870859.37802	CCD S5 on	N	N
Observation start date	2008-09-03T23:32:51	2008-09-03T23:14:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	336873036.184000	336874036.36567	On-chip summing requested	N	N
Observation end date	2008-09-03T23:49:31	2008-09-04T00:07:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





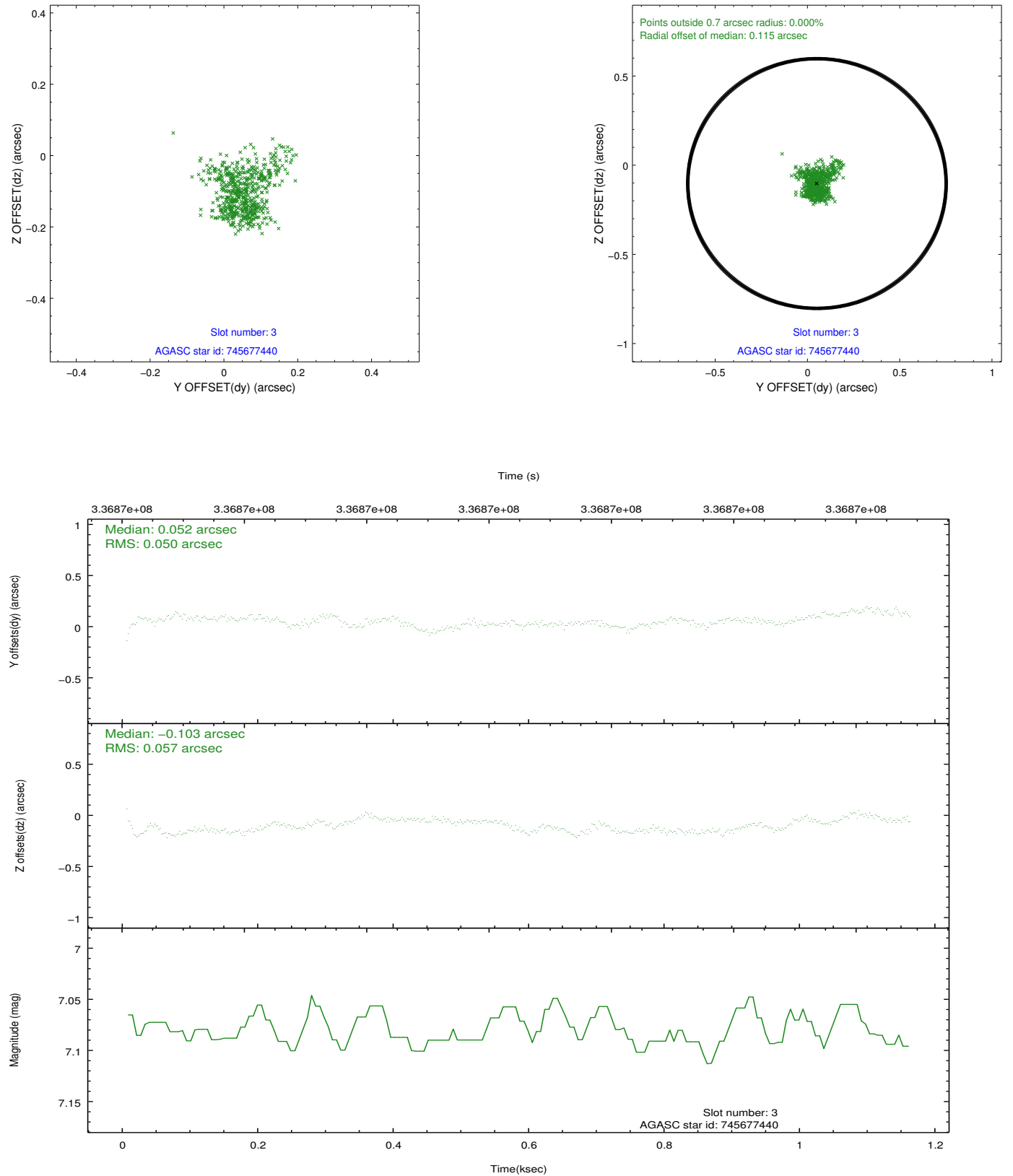
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	282	-0.009	-0.054	0.008	0.014	0.000000	0.000000	926.38	-839.65
1	FID	ACIS-I-4	6.94	282	0.147	0.065	0.008	0.012	0.000000	0.000000	2149.78	1057.37
2	FID	ACIS-I-5	6.99	282	-0.236	0.059	0.006	0.010	0.000000	0.000000	-1814.42	1061.79
3	GUIDE	745677440	7.08	565	0.052	-0.103	0.078	0.132	275.264510	-14.978543	1503.22	575.35
4	GUIDE	745680664	7.08	565	-0.035	0.090	0.072	0.115	275.566567	-14.388697	-646.75	1569.08
5	GUIDE	745680712	8.56	565	0.218	0.047	0.100	0.144	274.442693	-14.918638	1373.14	-2285.09
6	GUIDE	745670520	8.88	564	-0.172	0.006	0.092	0.129	274.614741	-13.988466	-1989.85	-1799.07
7	GUIDE	745675656	7.95	563	-0.071	-0.030	0.072	0.110	274.656383	-13.977352	-2040.25	-1654.12

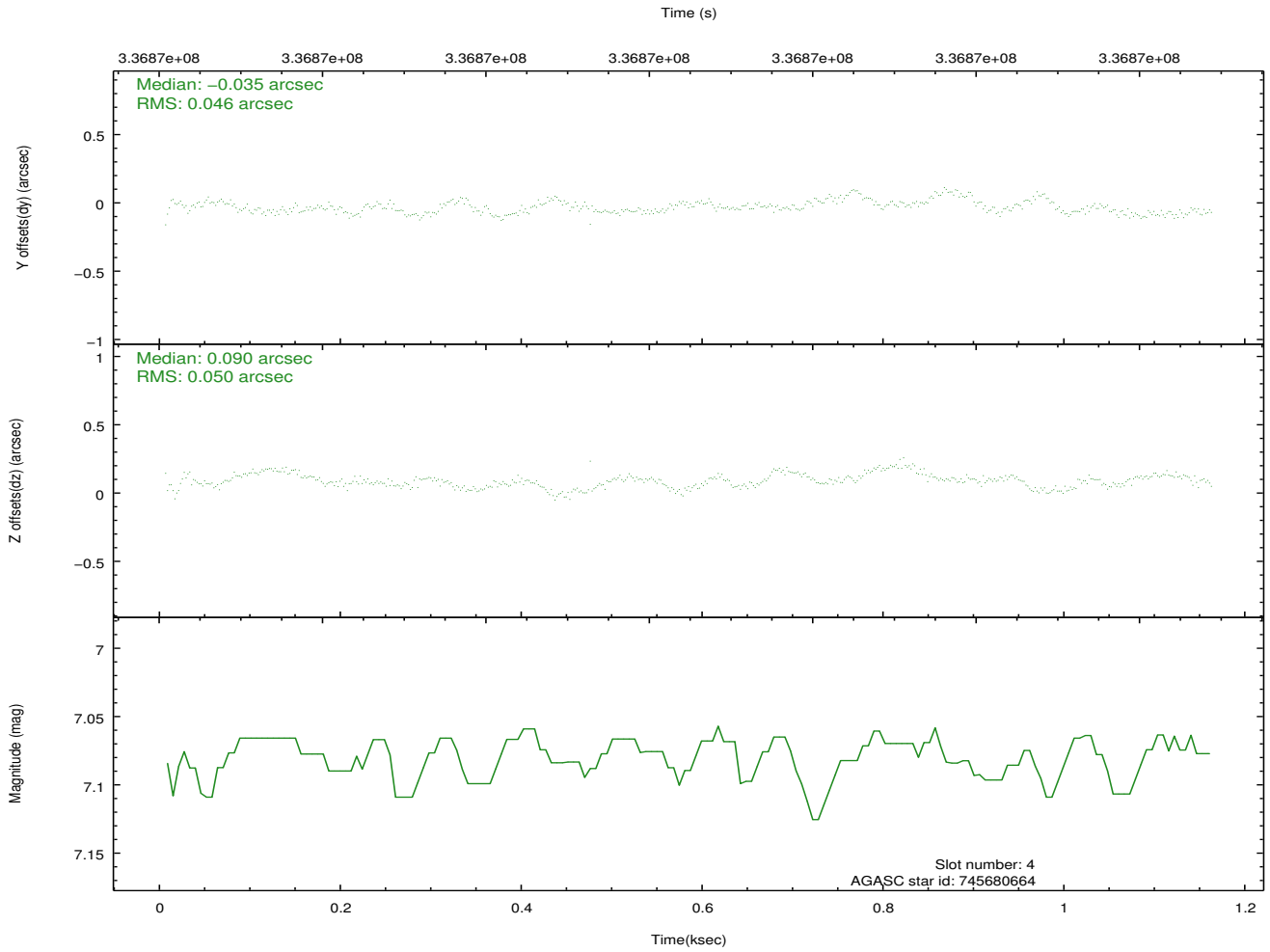
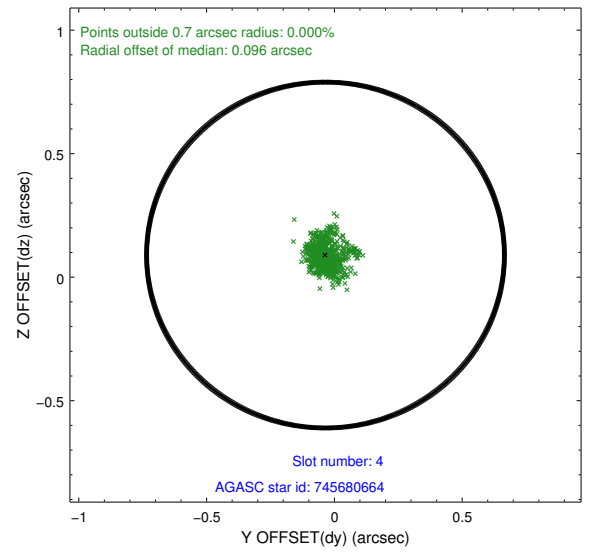
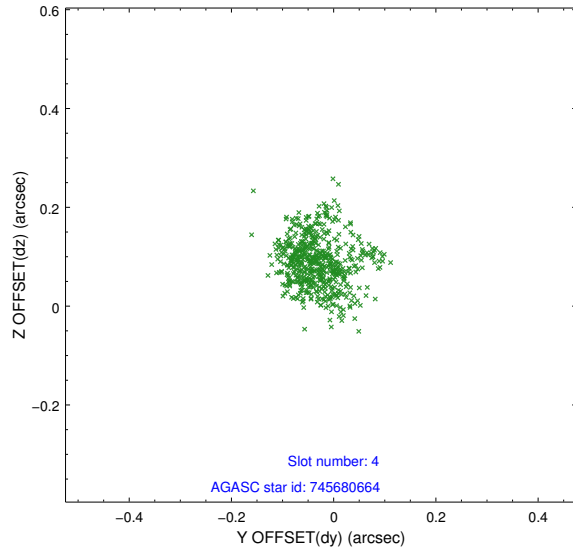


## 2.4 Star Slots

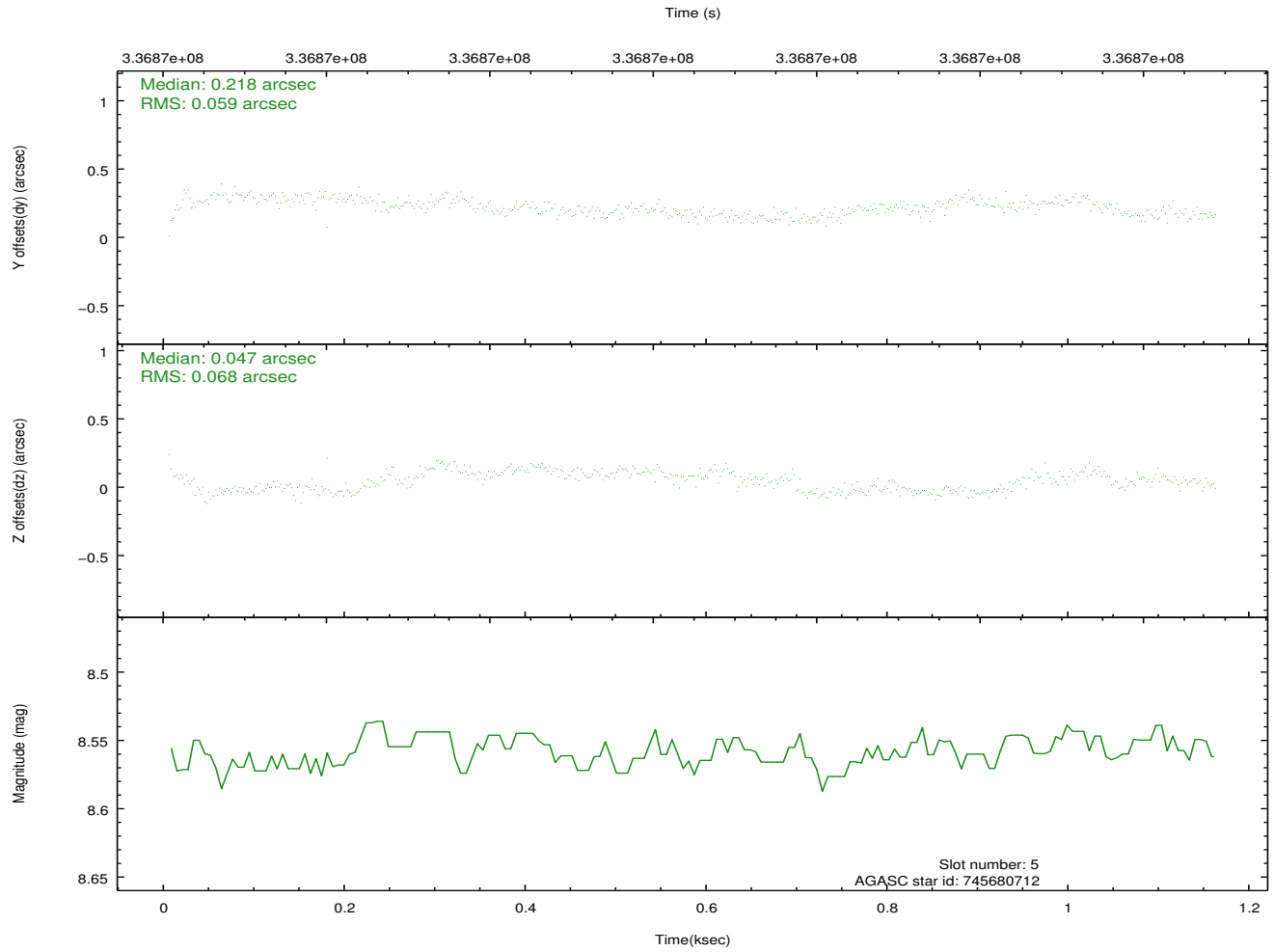
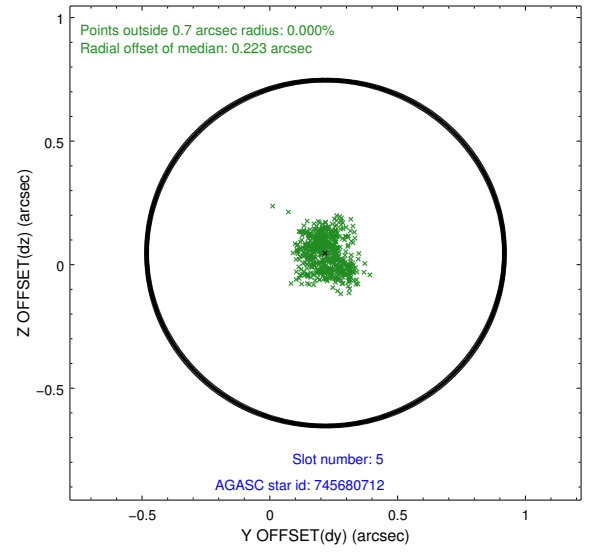
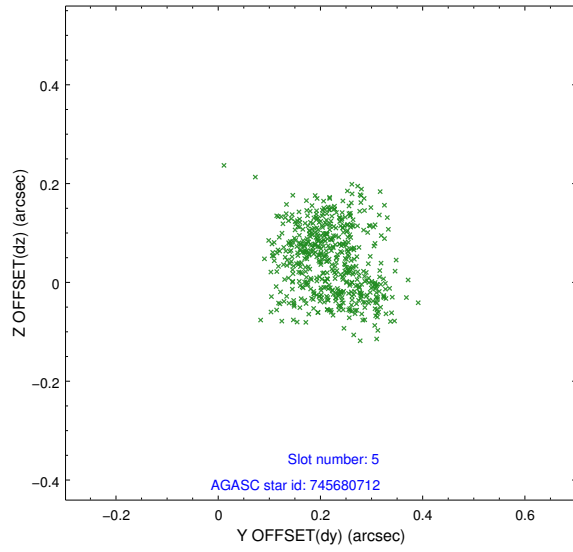
### 2.4.1 Slot 3



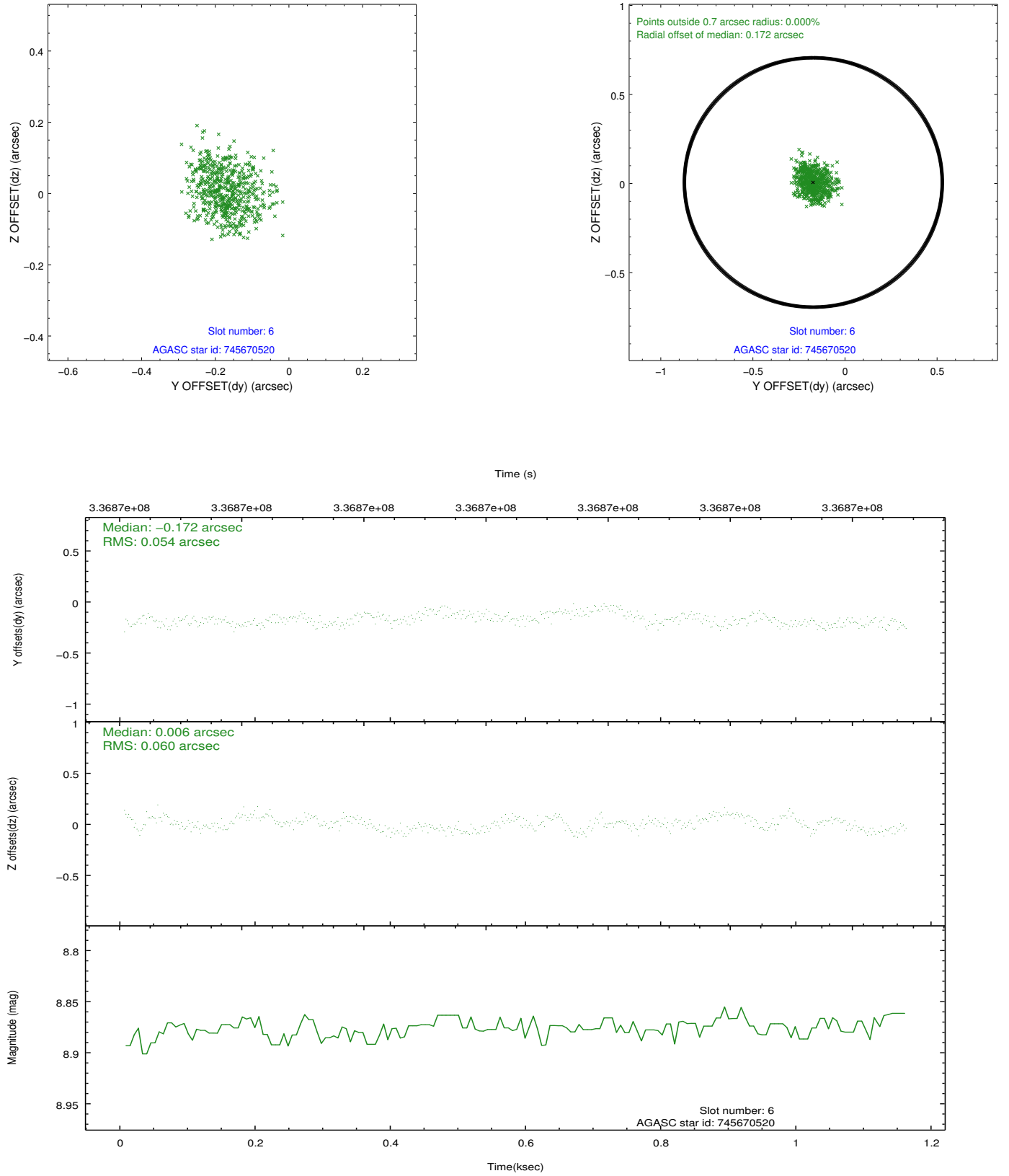
## 2.4.2 Slot 4



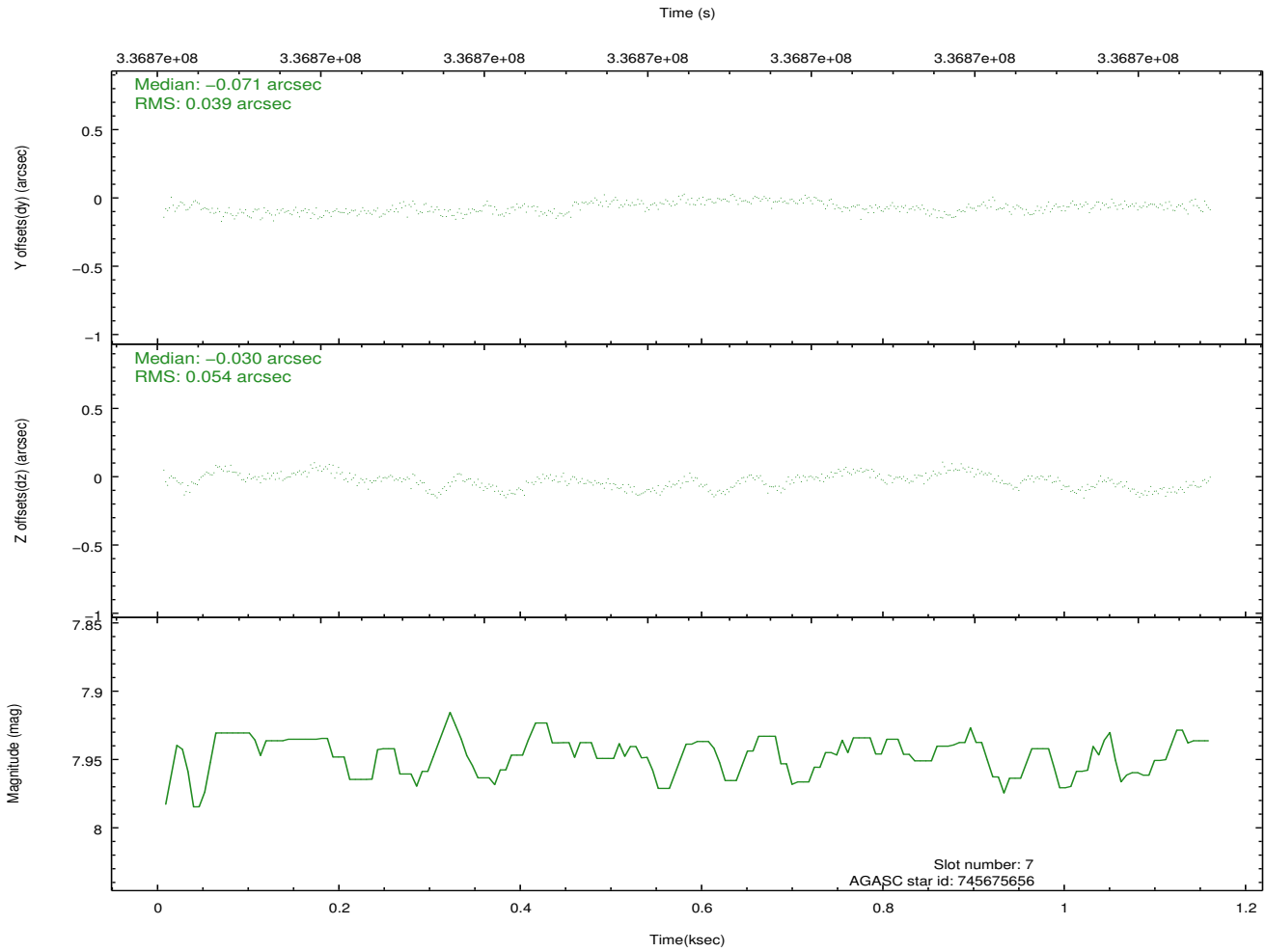
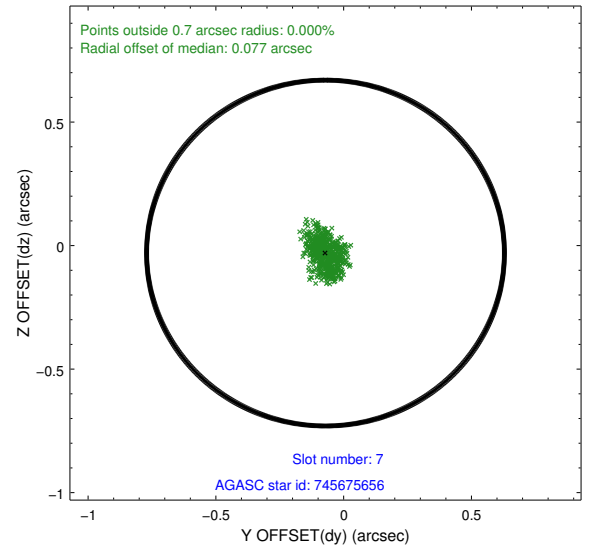
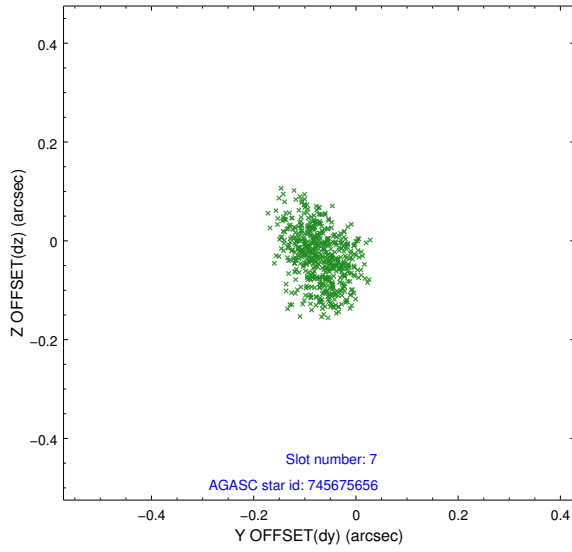
### 2.4.3 Slot 5



## 2.4.4 Slot 6

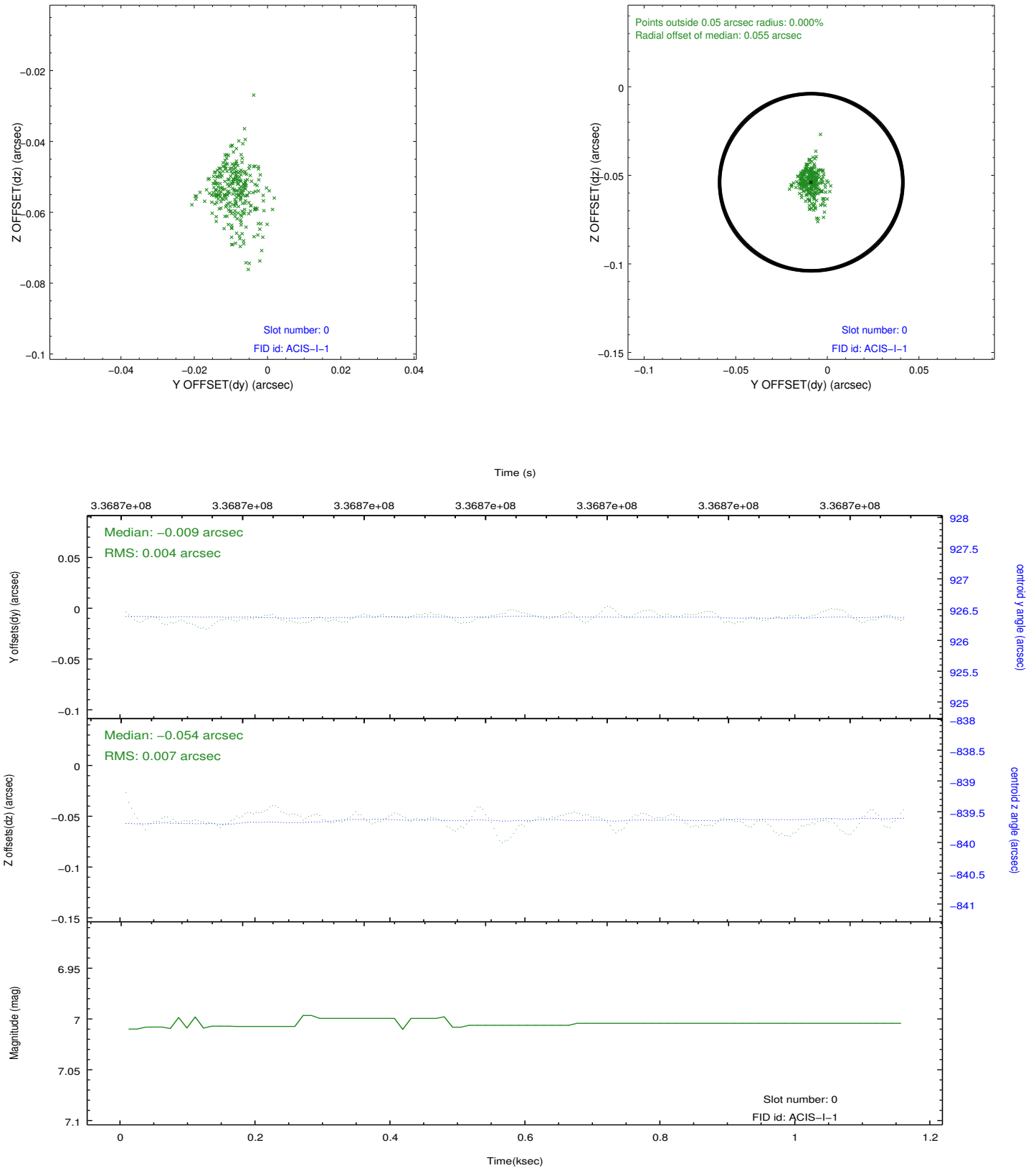


## 2.4.5 Slot 7

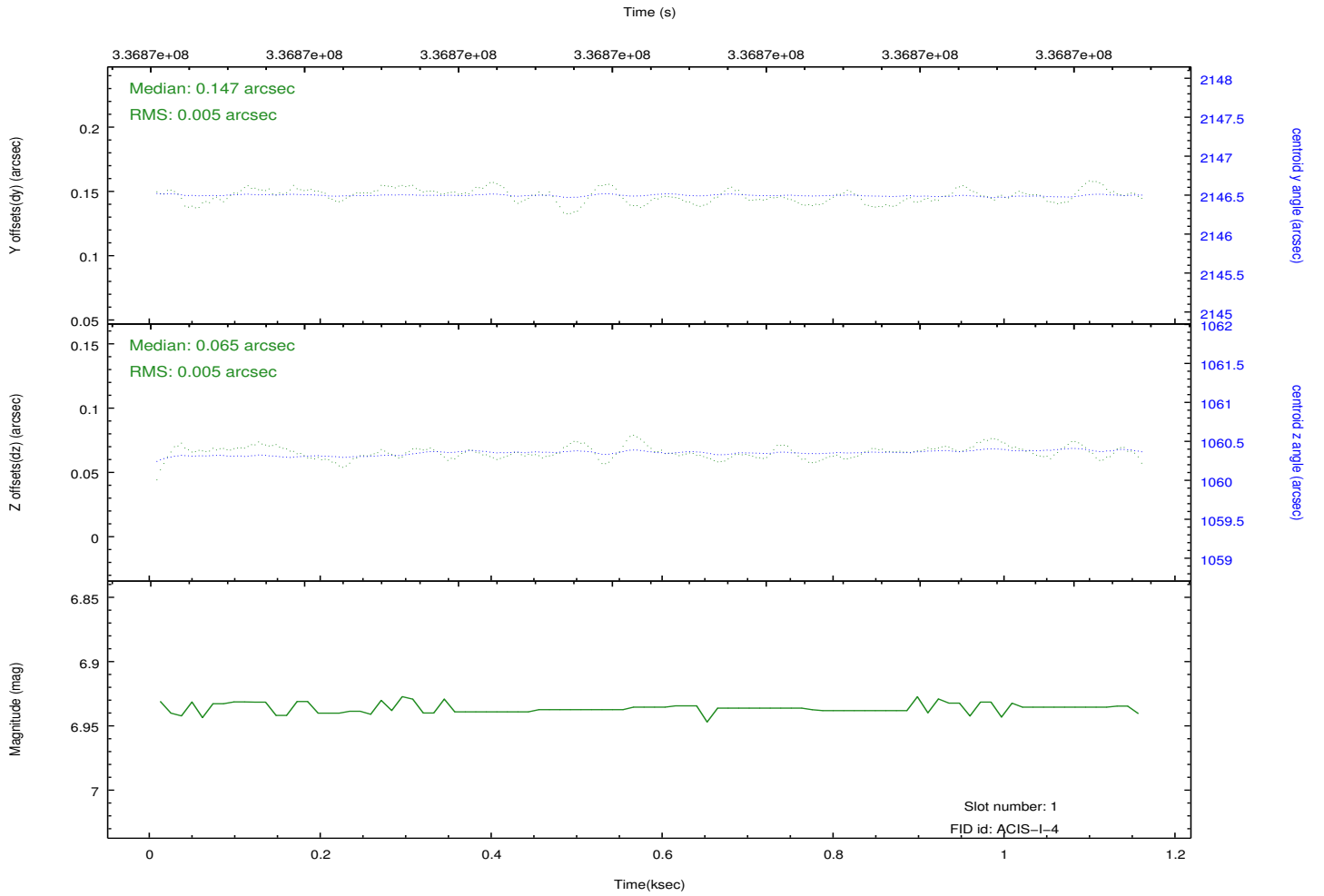
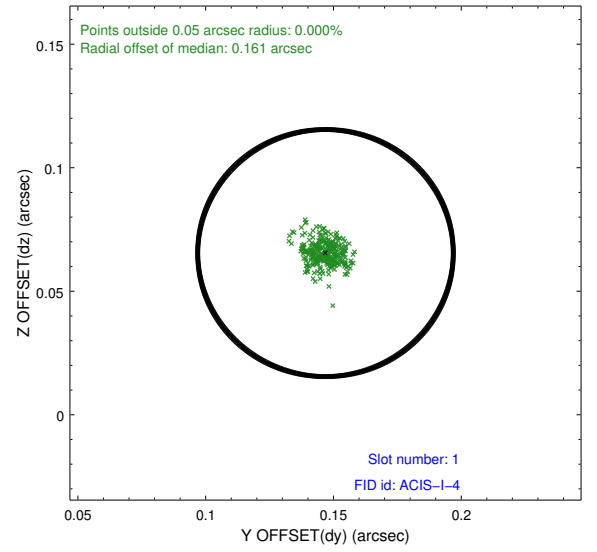
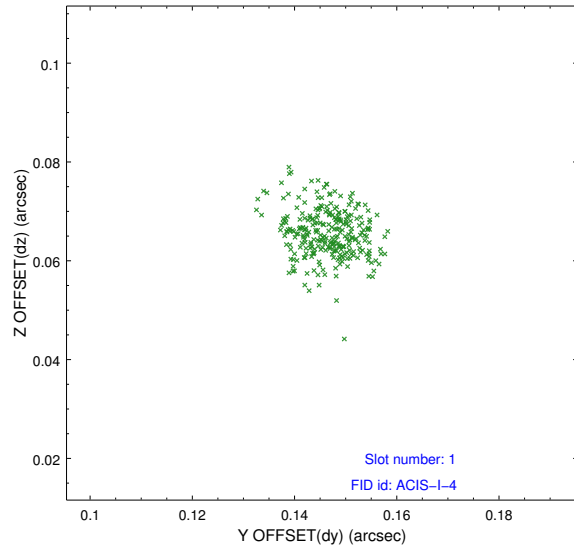


## 2.5 FID Slots

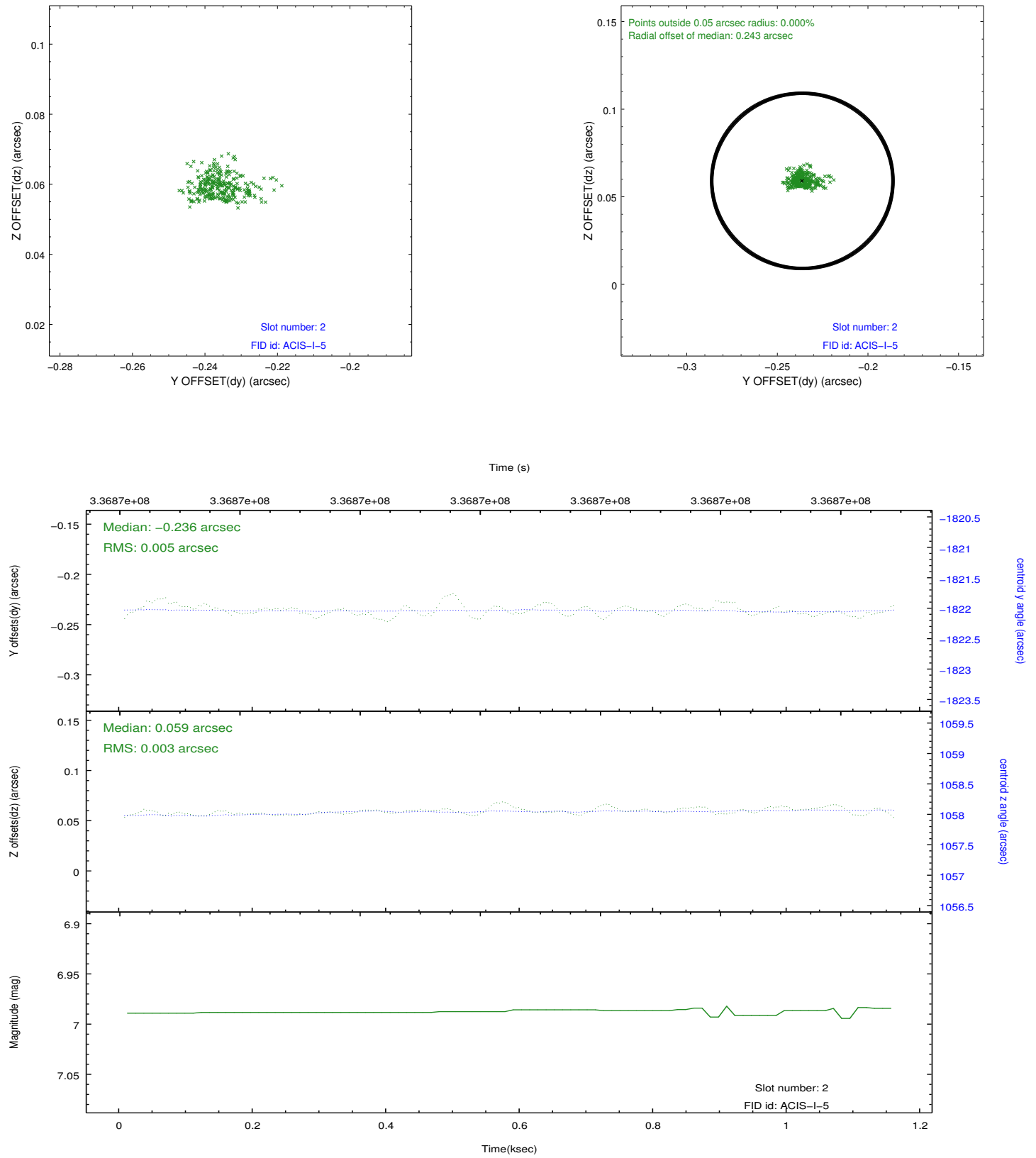
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.15199999

### A.2 Comments

Joint proposal with XMM.