

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3023 - L2 Version 3  
Chandra X-Ray Center

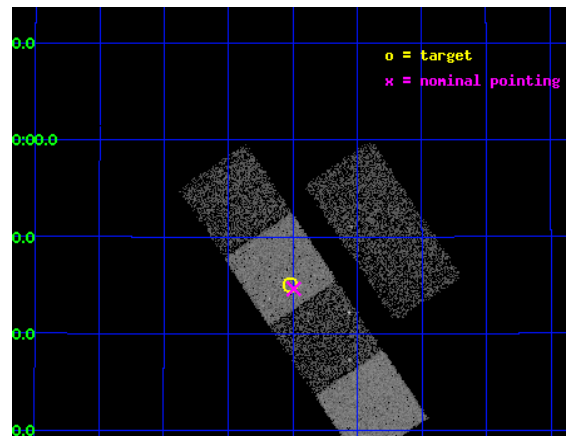
L2 Processing Date : Oct 1 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

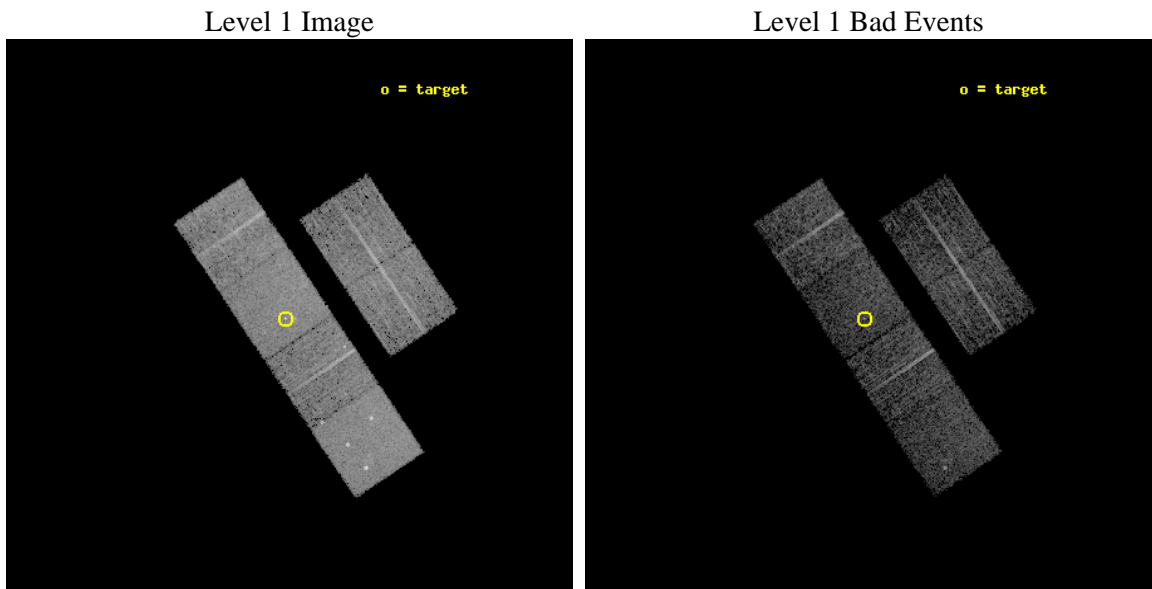
seq_num	700462	Sequence number
obs_id	3023	Observation id
title	A SYSTEMATIC X-RAY SURVEY OF SUBMILLIMETRE-LUMINOUS QUASARS	Propos
observer	Dr Robert Priddey	Principal investigator
object	HS0810+2554	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.380417	Observer's specified target RA [deg]
dec_targ	25.750806	Observer's specified target Dec [deg]
ra_nom	123.37300258479	Nominal RA [deg]
dec_nom	25.743906381037	Nominal Dec [deg]
roll_nom	236.11492413688	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4956.8000046015	Sum of GTIs [s]
livetime	4894.0340183166	Livetime [s]
ontime2	4953.5590542555	Sum of GTIs [s]
ontime3	4956.8000046015	Sum of GTIs [s]
ontime5	4956.8000046015	Sum of GTIs [s]
ontime6	4956.8000046015	Sum of GTIs [s]
ontime7	4956.8000046015	Sum of GTIs [s]
ontime8	4956.8000046015	Sum of GTIs [s]
l2events	48916	Number of level 2 events



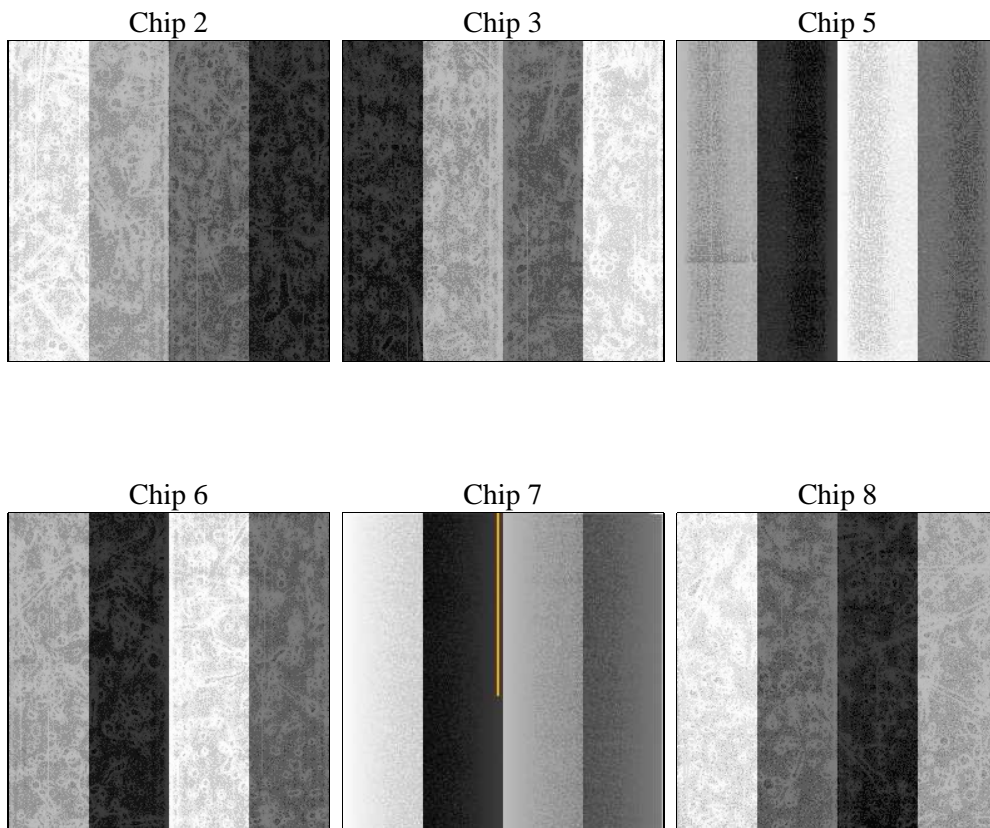
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4956.8000046015	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4953.5590542555	Sum of GTIs [s]
date	2012-10-01T05:52:19	Date and time of file creation	ontime3	4956.8000046015	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4956.8000046015	Sum of GTIs [s]
			ontime6	4956.8000046015	Sum of GTIs [s]
			ontime7	4956.8000046015	Sum of GTIs [s]
			ontime8	4956.8000046015	Sum of GTIs [s]
			l1events	220098	Number of level 1 events

### 2.1.4 Events

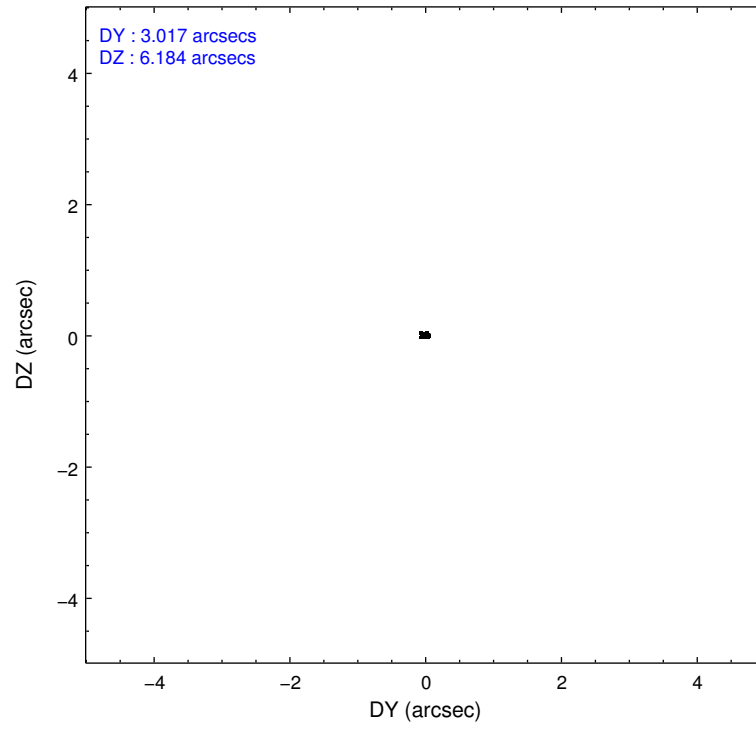
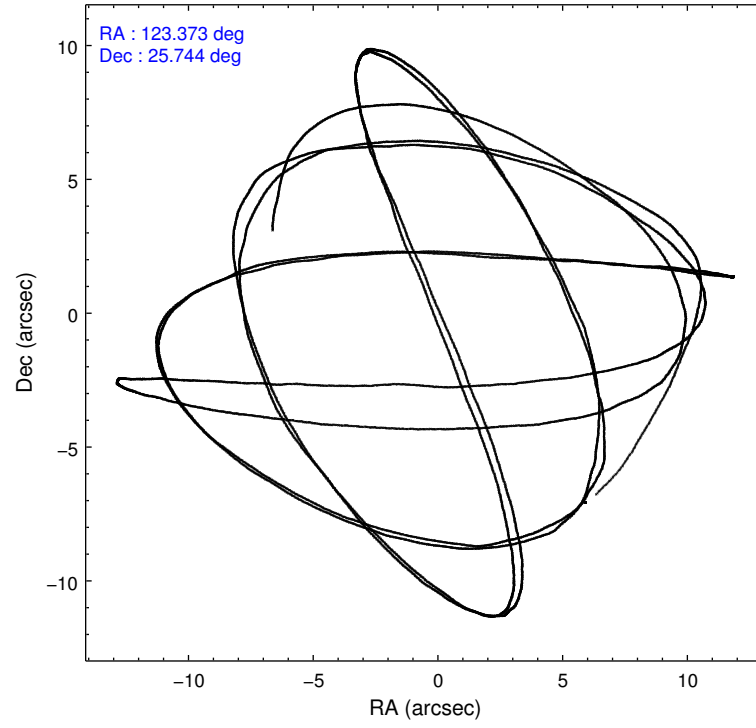
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	32894	29001	45576	31704	41194	39729	grade 0 events	1348	1457	3235	1702	1850	2644
rejected events	29490	25467	23756	27702	23741	31467		4%	5%	7%	5%	4%	6%
rejected %	89%	87%	52%	87%	57%	79%	grade 1 events	13	13	168	18	50	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	800	752	6460	807	3504	1665
								2%	2%	14%	2%	8%	4%
							grade 3 events	295	344	879	383	1629	910
								0%	1%	1%	1%	3%	2%
							grade 4 events	300	337	806	354	1591	873
								0%	1%	1%	1%	3%	2%
							grade 5 events	1157	1208	3349	1366	3939	1655
								3%	4%	7%	4%	9%	4%
							grade 6 events	664	652	10454	758	8895	2176
								2%	2%	22%	2%	21%	5%
							grade 7 events	28317	24238	20225	26316	19736	29789
								86%	83%	44%	83%	47%	74%

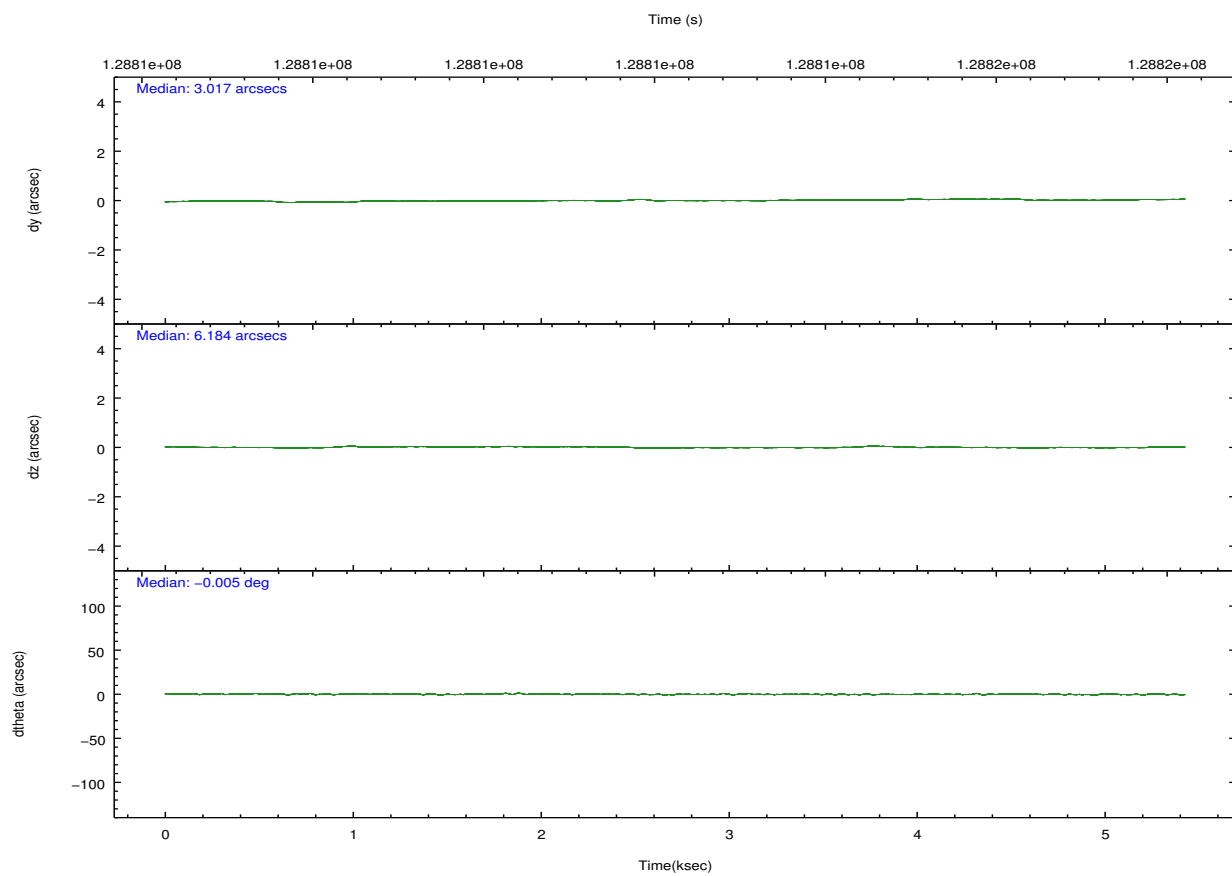
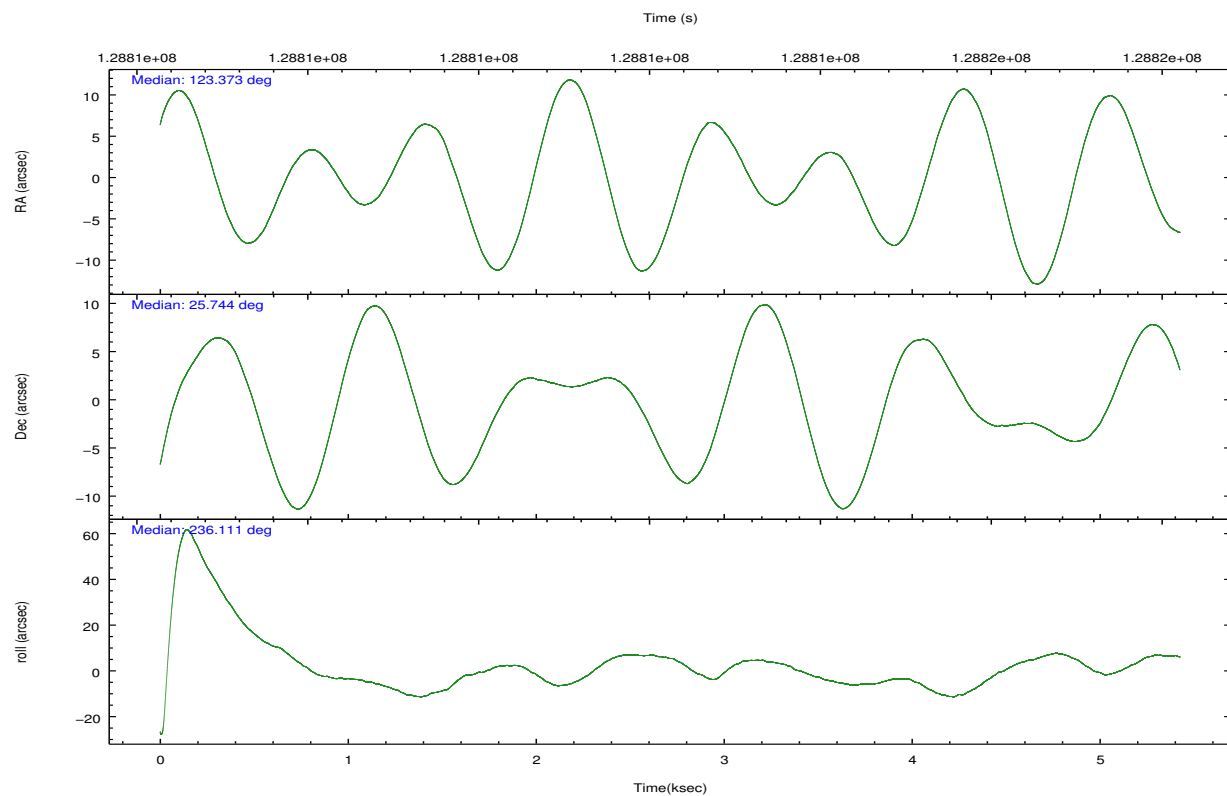


## 2.2 Compared Parameters

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	123.374597	123.3730025847871	Subarray requested	NONE	NONE
[deg] Pointing Dec	25.771042	25.74390638103743	Alternating exposures requested	N	N
[deg] Pointing Roll	235.957828	236.1149241368829	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	128810832.184000	128809750.22812			
Observation start date	2002-01-30T20:46:08	2002-01-30T20:29:10			
[s] Observation end time (MET)	128815832.184000	128817390.57843			
Observation end date	2002-01-30T22:09:28	2002-01-30T22:36:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect



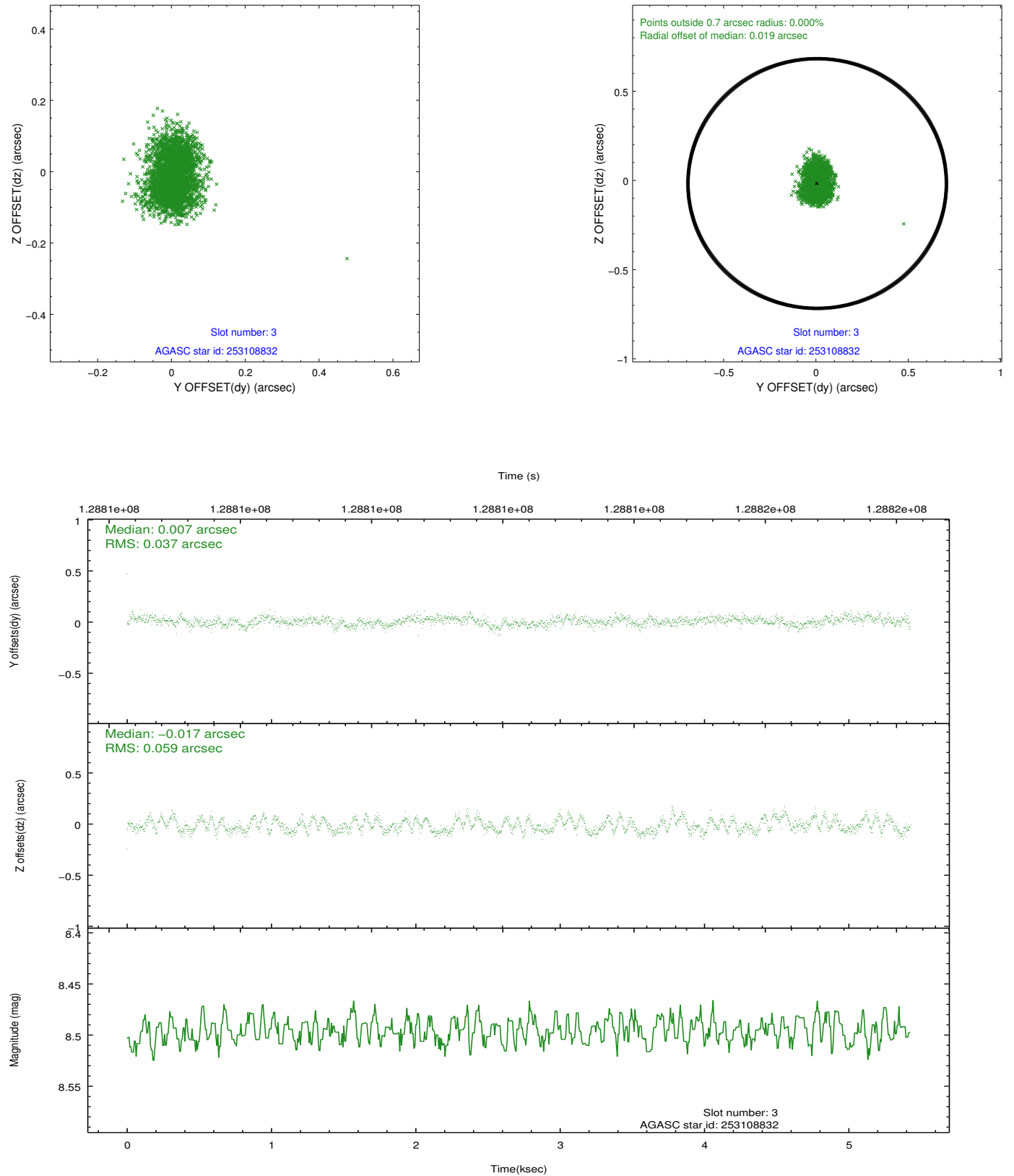


### Slot Statistics

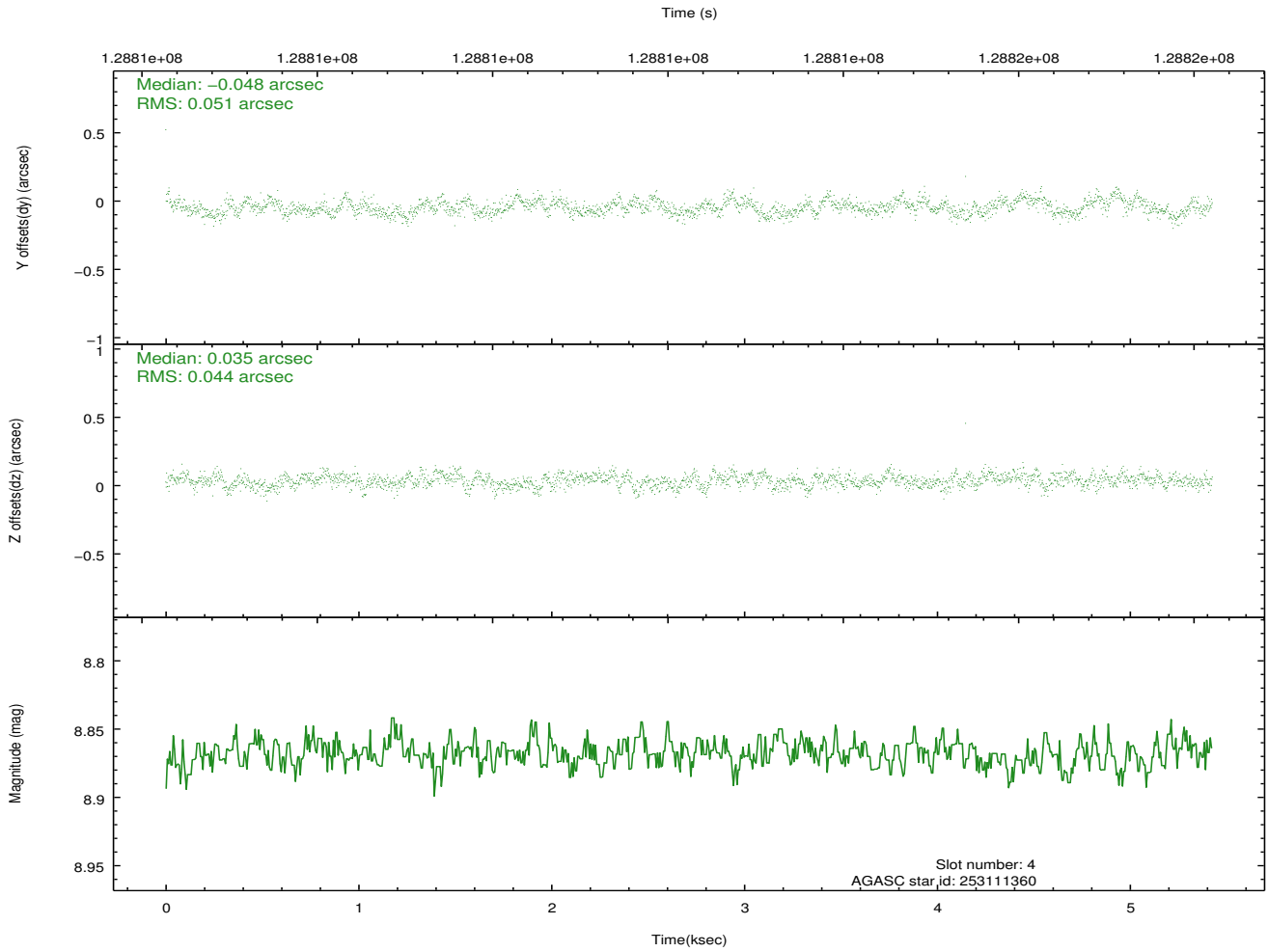
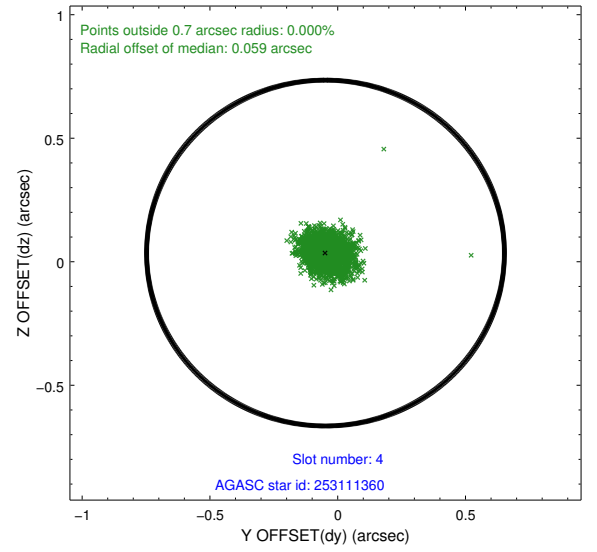
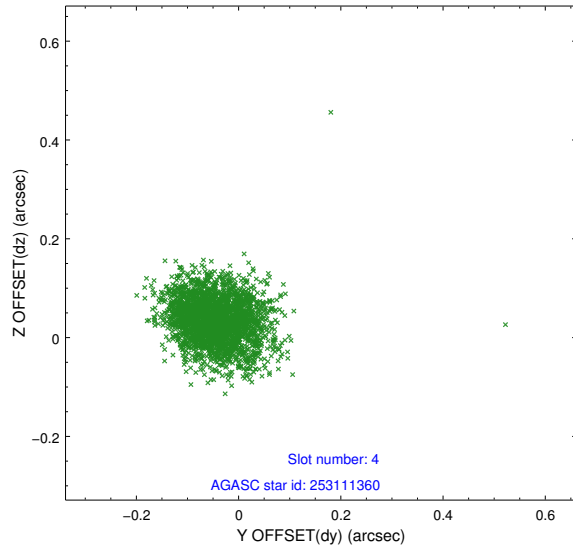
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1324	-0.034	0.007	0.006	0.012	0.000000	0.000000	-755.65	-1727.29
1	FID	ACIS-S-4	7.20	1323	-0.017	0.014	0.005	0.010	0.000000	0.000000	2157.10	180.12
2	FID	ACIS-S-5	7.24	1323	0.019	-0.013	0.007	0.011	0.000000	0.000000	-1807.06	174.94
3	GUIDE	253108832	8.50	2647	0.007	-0.017	0.074	0.116	123.164616	26.224196	-970.66	-1475.45
4	GUIDE	253111360	8.87	2647	-0.048	0.035	0.070	0.115	122.832350	25.779138	958.45	-1475.31
5	GUIDE	253112512	9.01	2646	-0.031	-0.023	0.071	0.122	123.268510	25.314512	1557.28	633.48
6	GUIDE	253630552	9.92	2644	0.061	0.037	0.120	0.194	123.423030	26.402115	-1967.34	-1142.17
7	GUIDE	253110424	10.00	2646	0.019	-0.035	0.150	0.242	123.142073	26.069493	-468.70	-1225.33

## 2.4 Star Slots

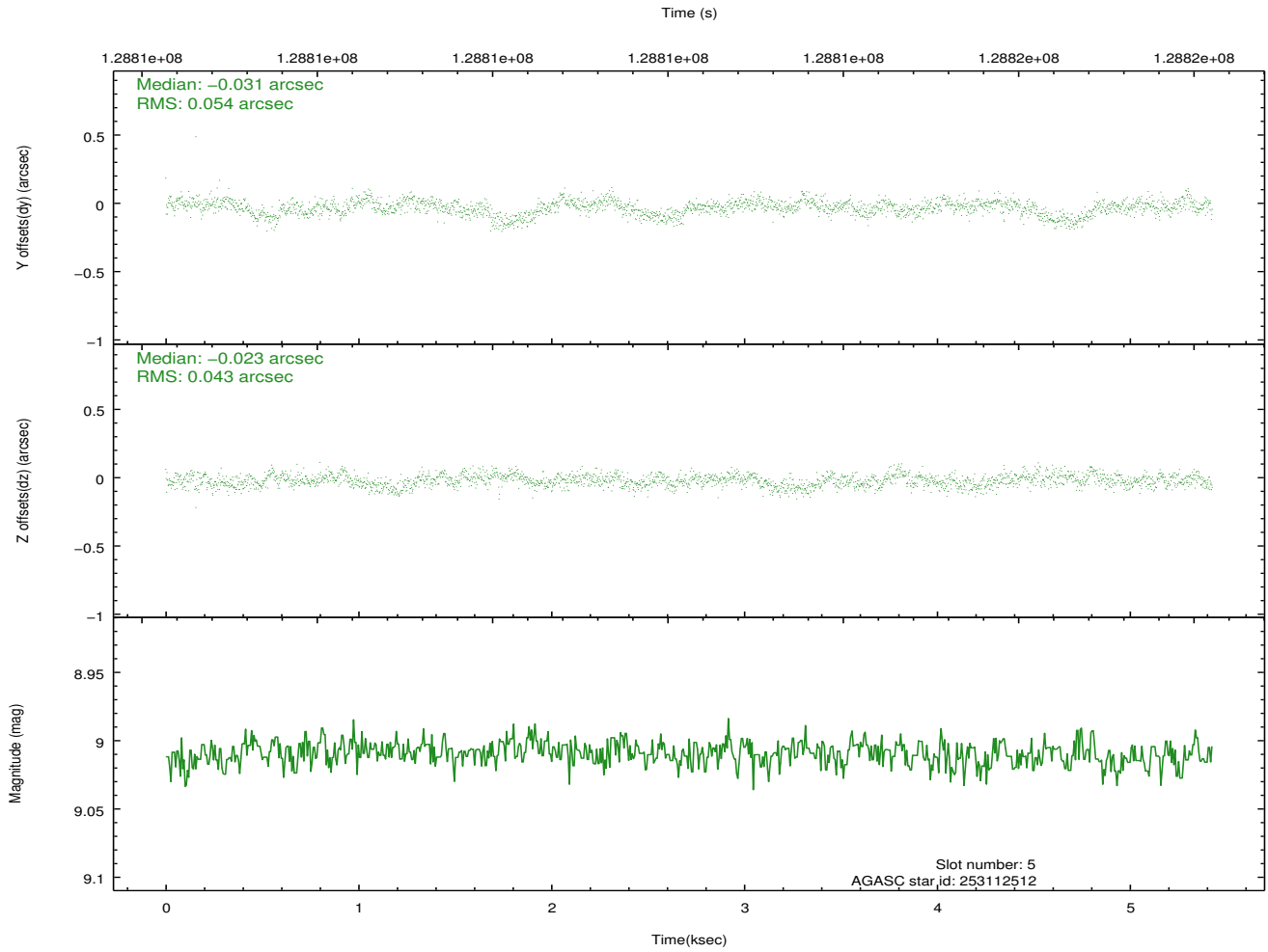
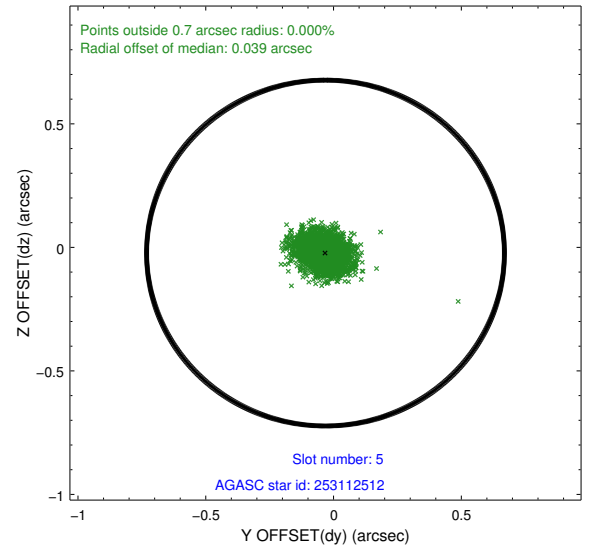
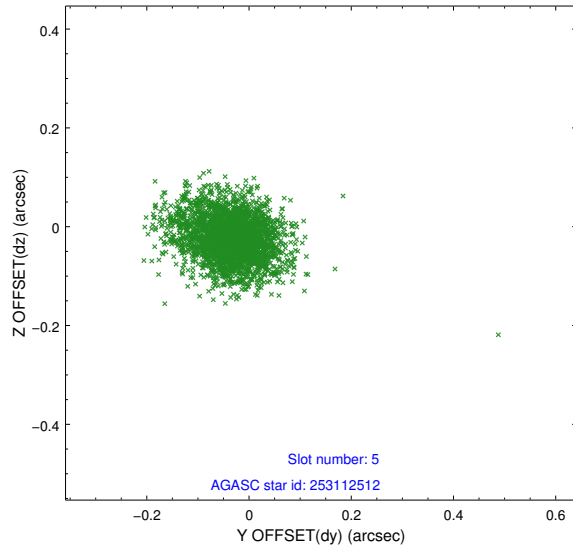
### 2.4.1 Slot 3



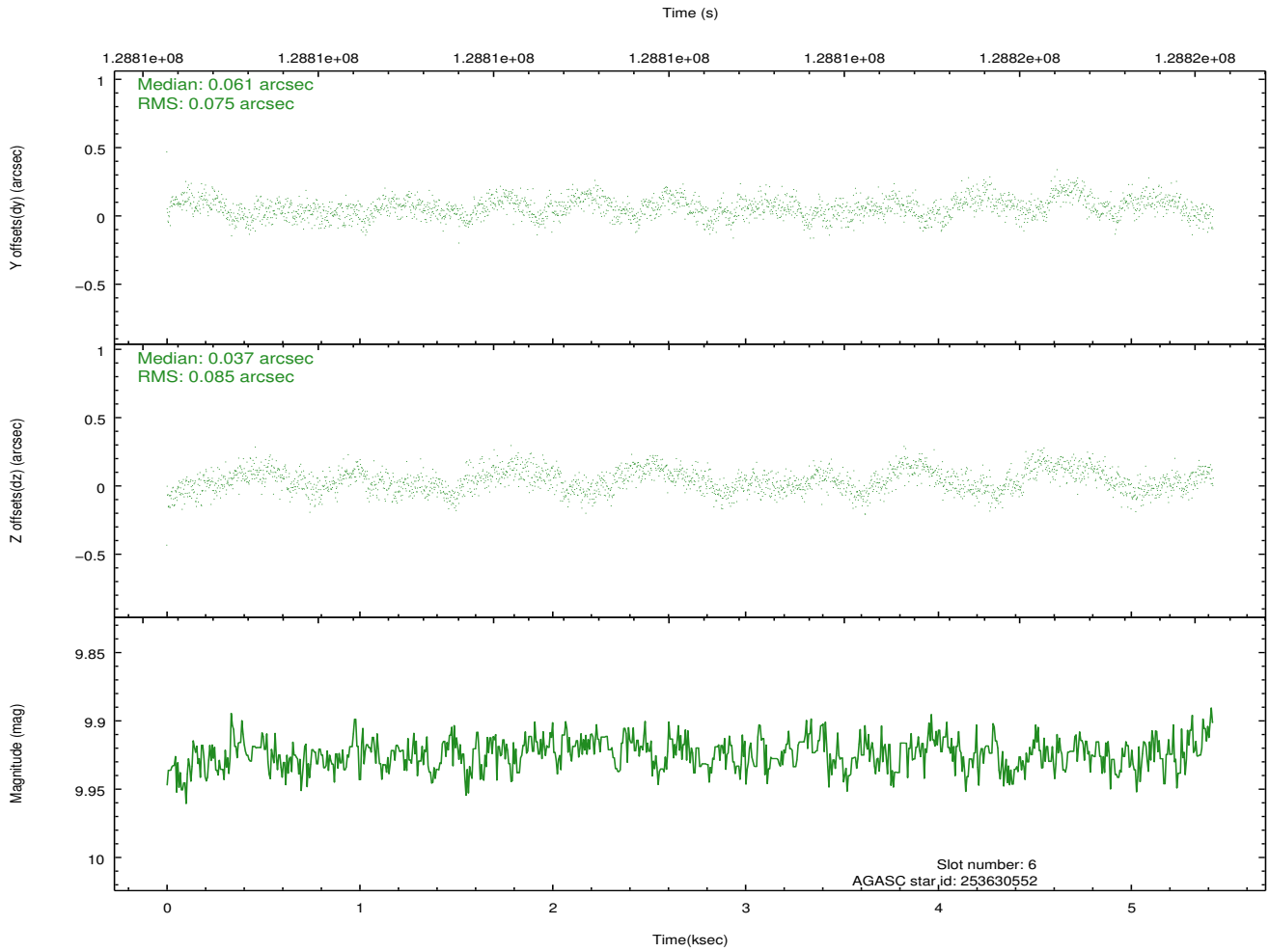
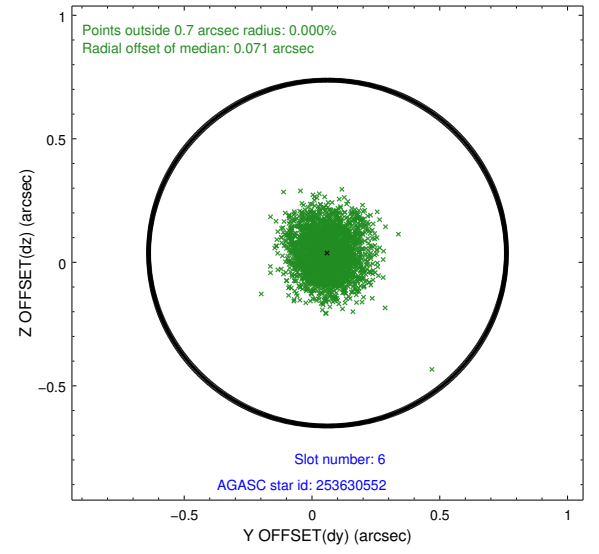
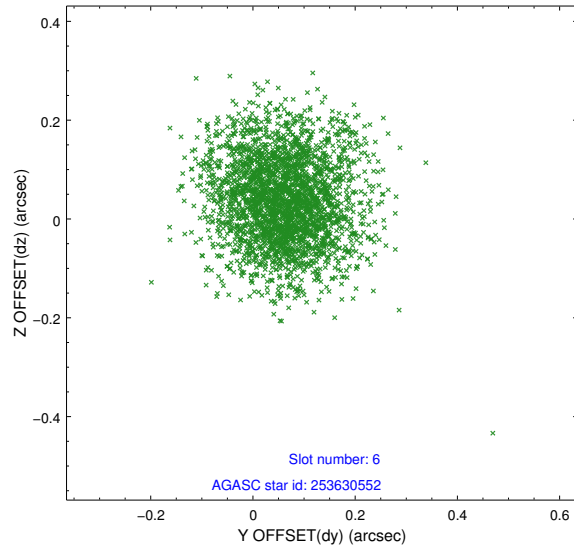
## 2.4.2 Slot 4



### 2.4.3 Slot 5

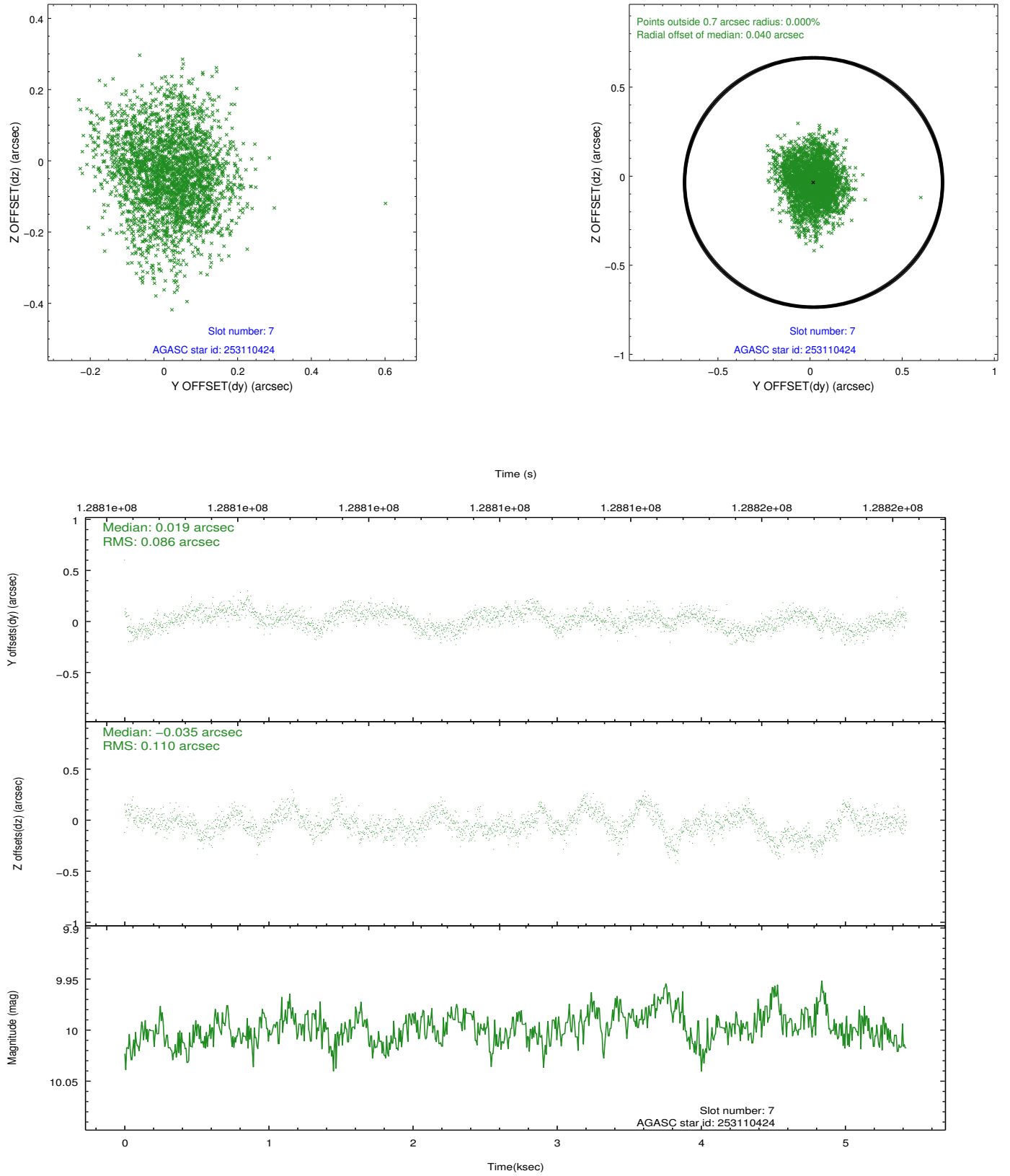


## 2.4.4 Slot 6



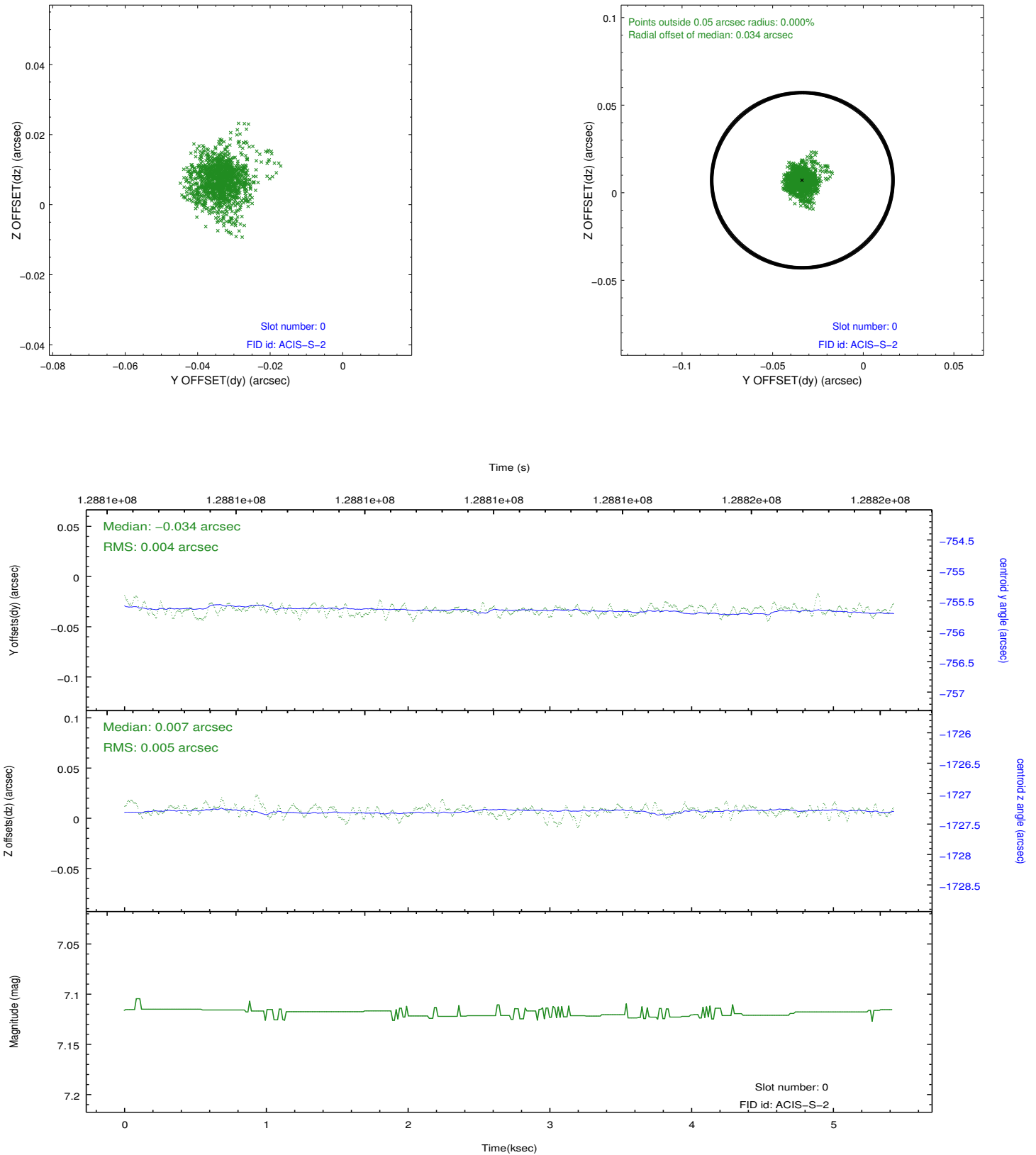


## 2.4.5 Slot 7

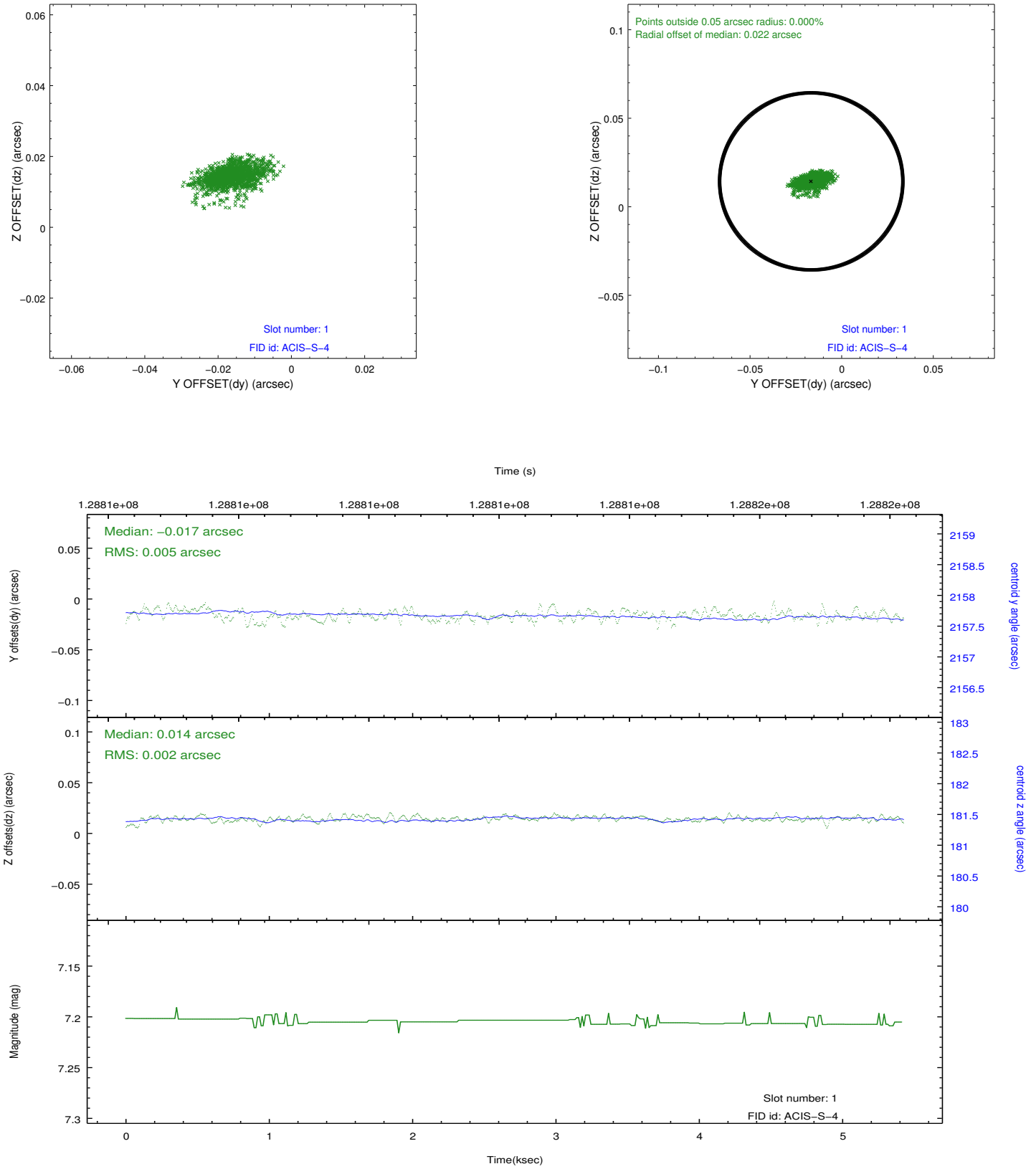


## 2.5 FID Slots

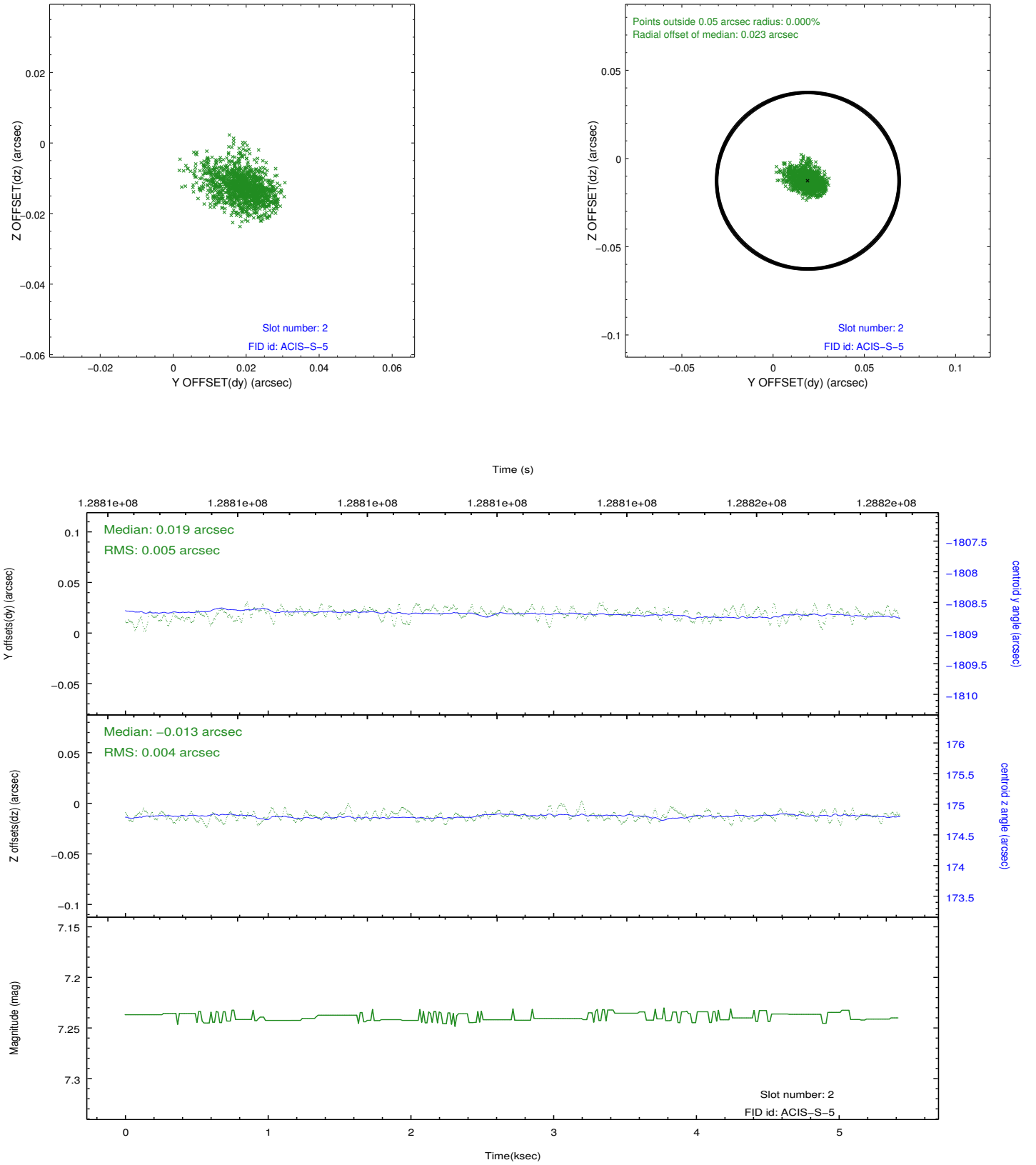
### 2.5.1 Slot 0



## 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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96

### **A.2 Comments**