

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7127 - L2 Version 2  
Chandra X-Ray Center

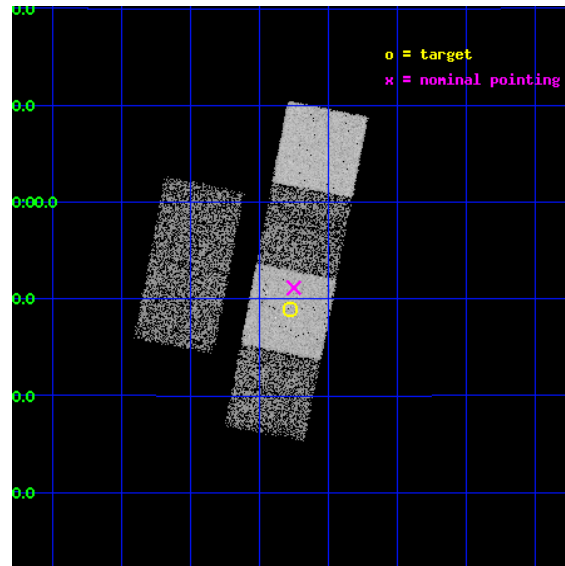
L2 Processing Date : Apr 1 2012

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# 1 Front

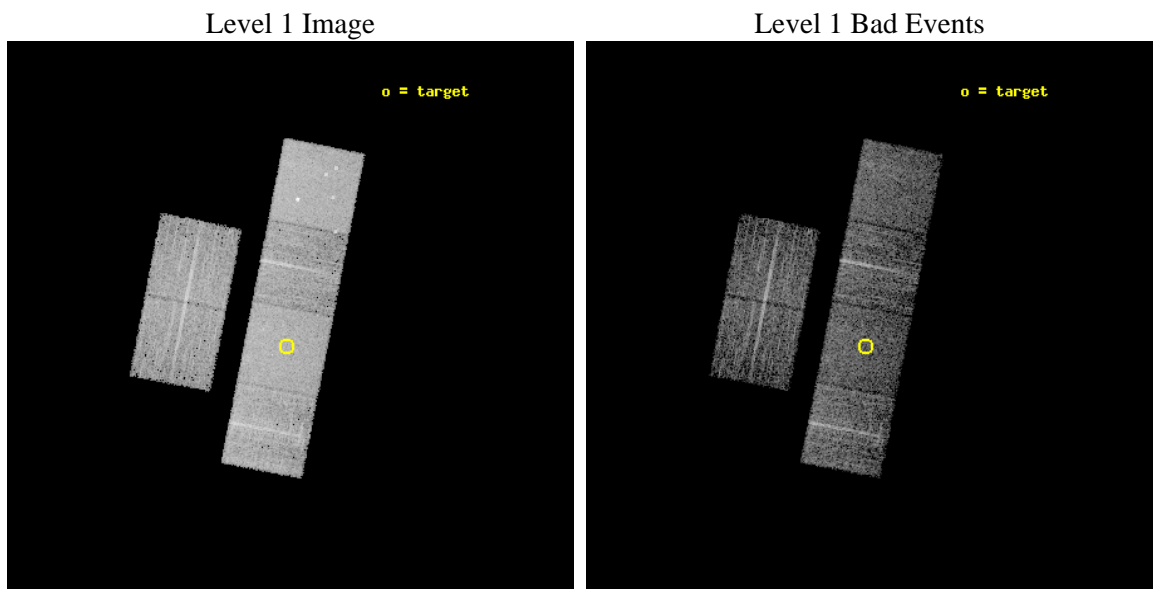
seq_num	600565	Sequence number
obs_id	7127	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 0014	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	2.193333	Observer's specified target RA [deg]
dec_targ	15.815611	Observer's specified target Dec [deg]
ra_nom	2.1876436639329	Nominal RA [deg]
dec_nom	15.852602970432	Nominal Dec [deg]
roll_nom	101.10766155376	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4076.7999848127	Sum of GTIs [s]
livetime	4025.1770886508	Livetime [s]
ontime2	4076.7999848127	Sum of GTIs [s]
ontime3	4076.7999848127	Sum of GTIs [s]
ontime5	4076.7999848127	Sum of GTIs [s]
ontime6	4076.7999848127	Sum of GTIs [s]
ontime7	4076.7999848127	Sum of GTIs [s]
ontime8	4076.7999848127	Sum of GTIs [s]
l2events	58266	Number of level 2 events



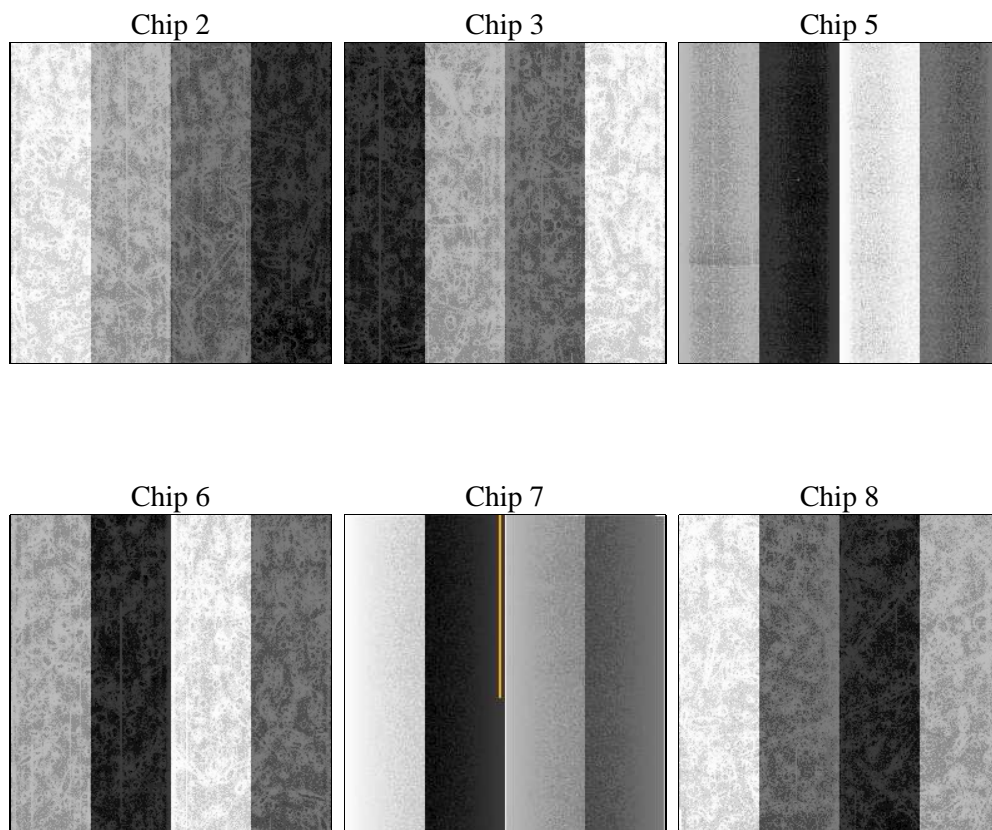
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3930.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4076.7999848127	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4076.7999848127	Sum of GTIs [s]
date	2012-04-01T04:51:27	Date and time of file creation	ontime3	4076.7999848127	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4076.7999848127	Sum of GTIs [s]
			ontime6	4076.7999848127	Sum of GTIs [s]
			ontime7	4076.7999848127	Sum of GTIs [s]
			ontime8	4076.7999848127	Sum of GTIs [s]
			l1events	280634	Number of level 1 events

### 2.1.4 Events

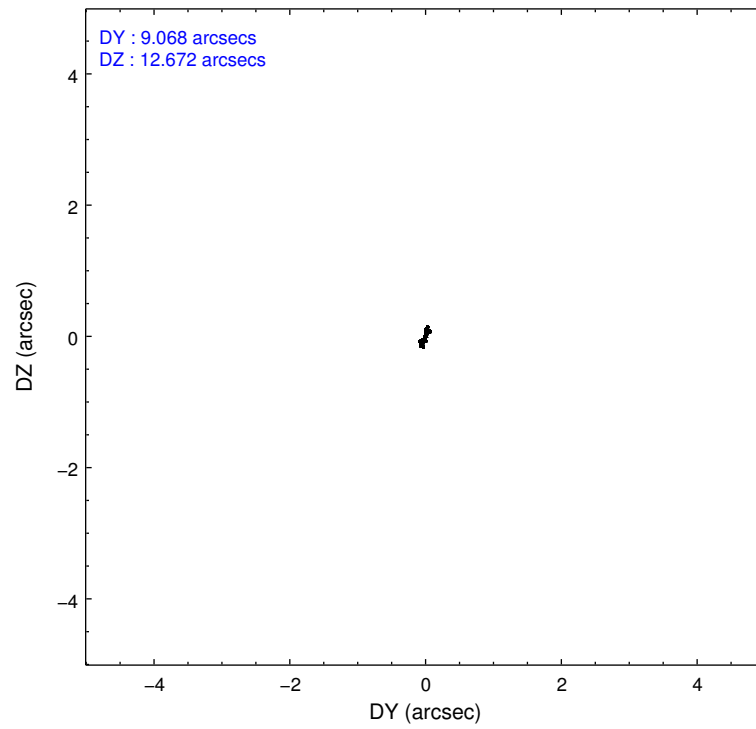
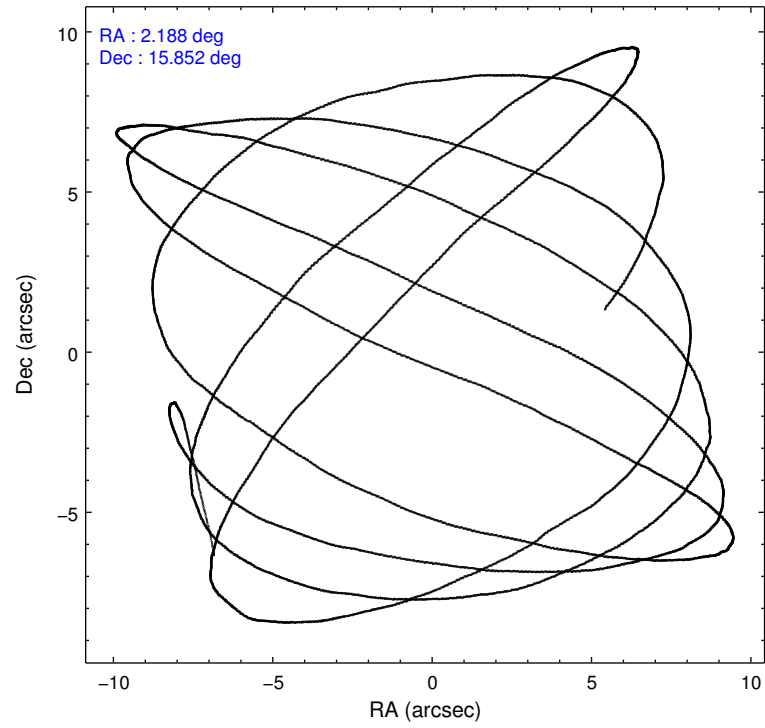
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40392	37076	60605	38703	53231	50627	grade 0 events	2053	1922	3781	1838	1891	3193
rejected events	36079	33043	34671	34476	32868	40923		5%	5%	6%	4%	3%	6%
rejected %	89%	89%	57%	89%	61%	80%	grade 1 events	35	28	93	21	47	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	985	860	8139	962	4495	2547
								2%	2%	13%	2%	8%	5%
							grade 3 events	424	426	991	391	1929	1071
								1%	1%	1%	1%	3%	2%
							grade 4 events	438	443	1036	425	1938	953
								1%	1%	1%	1%	3%	1%
							grade 5 events	1556	1747	4391	1752	5187	2475
								3%	4%	7%	4%	9%	4%
							grade 6 events	771	768	14496	955	11964	2831
								1%	2%	23%	2%	22%	5%
							grade 7 events	34130	30882	27678	32359	25780	37534
								84%	83%	45%	83%	48%	74%

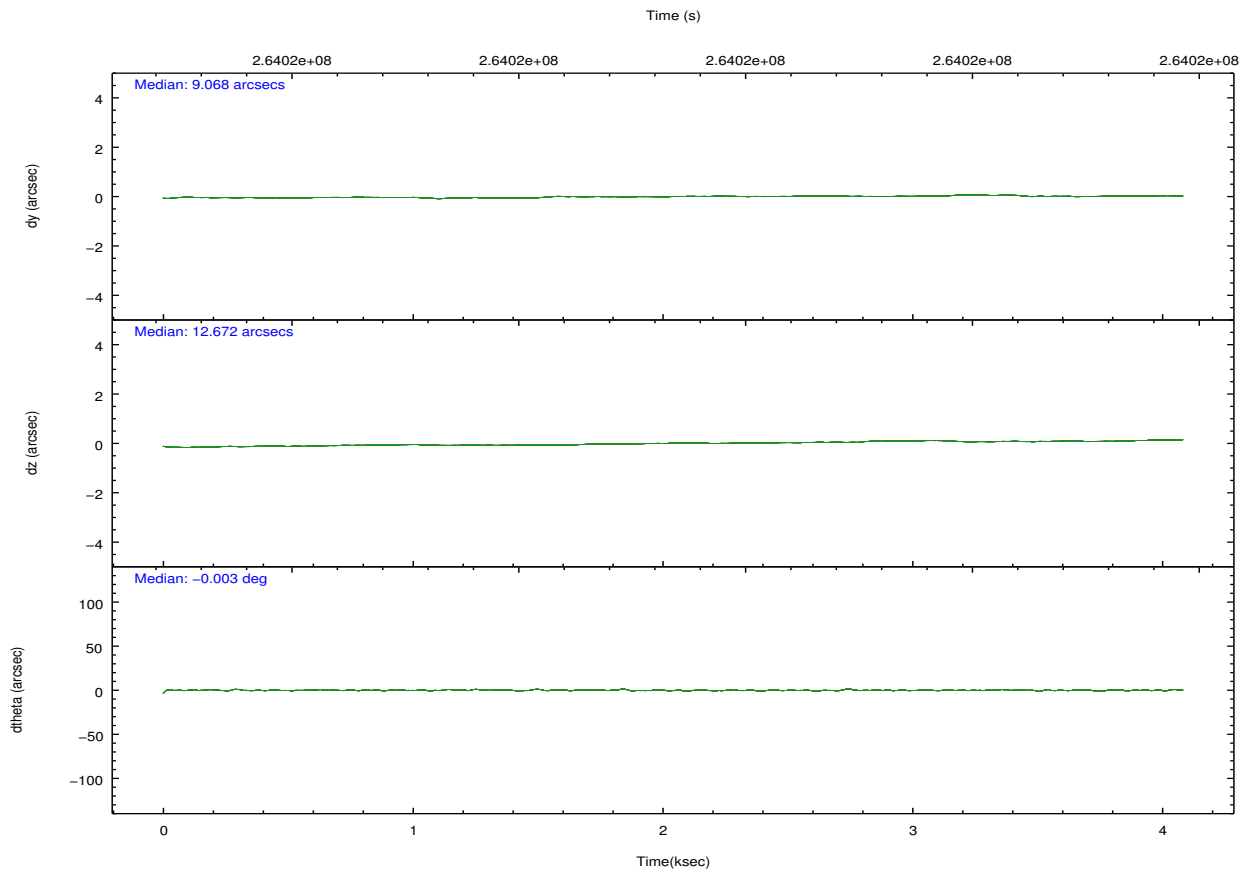
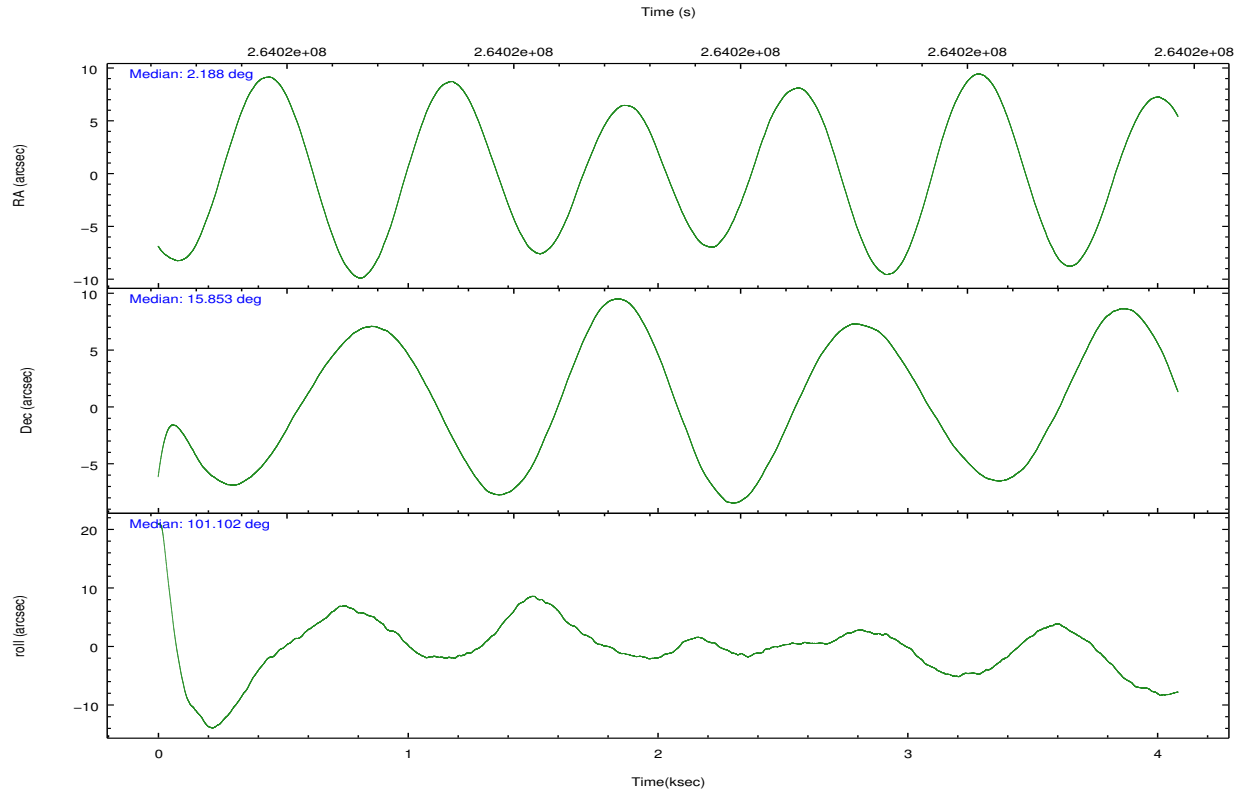


## 2.2 Compared Parameters

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	2.206561	2.187643663932903	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.832330	15.85260297043212	Alternating exposures requested	N	N
[deg] Pointing Roll	100.945776	101.107661553758	[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)	264018792.184000	264017492.8158			
Observation start date	2006-05-14T18:32:07	2006-05-14T18:11:32			
[s] Observation end time (MET)	264022722.184000	264023212.82857			
Observation end date	2006-05-14T19:37:37	2006-05-14T19:46:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



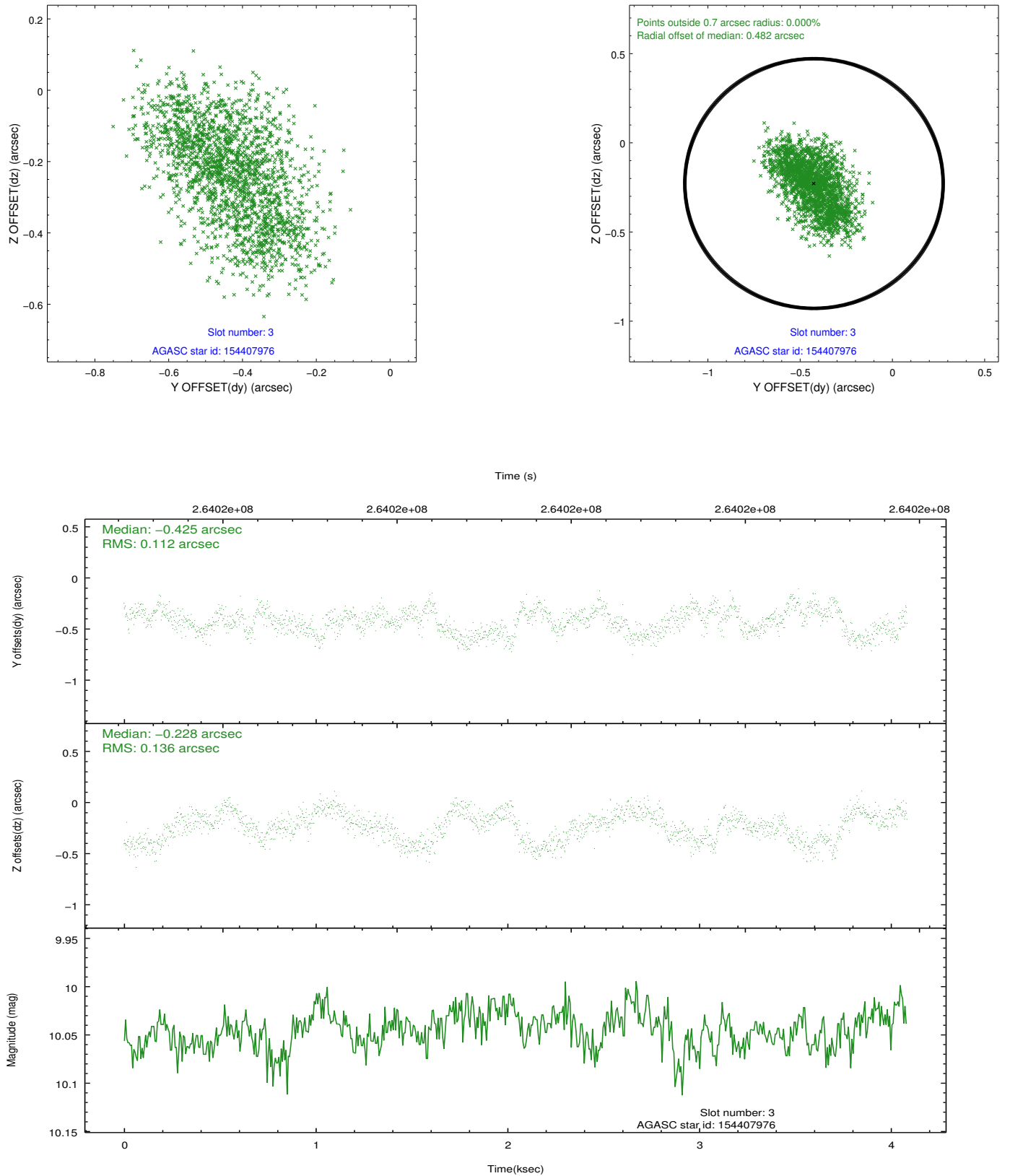


### Slot Statistics

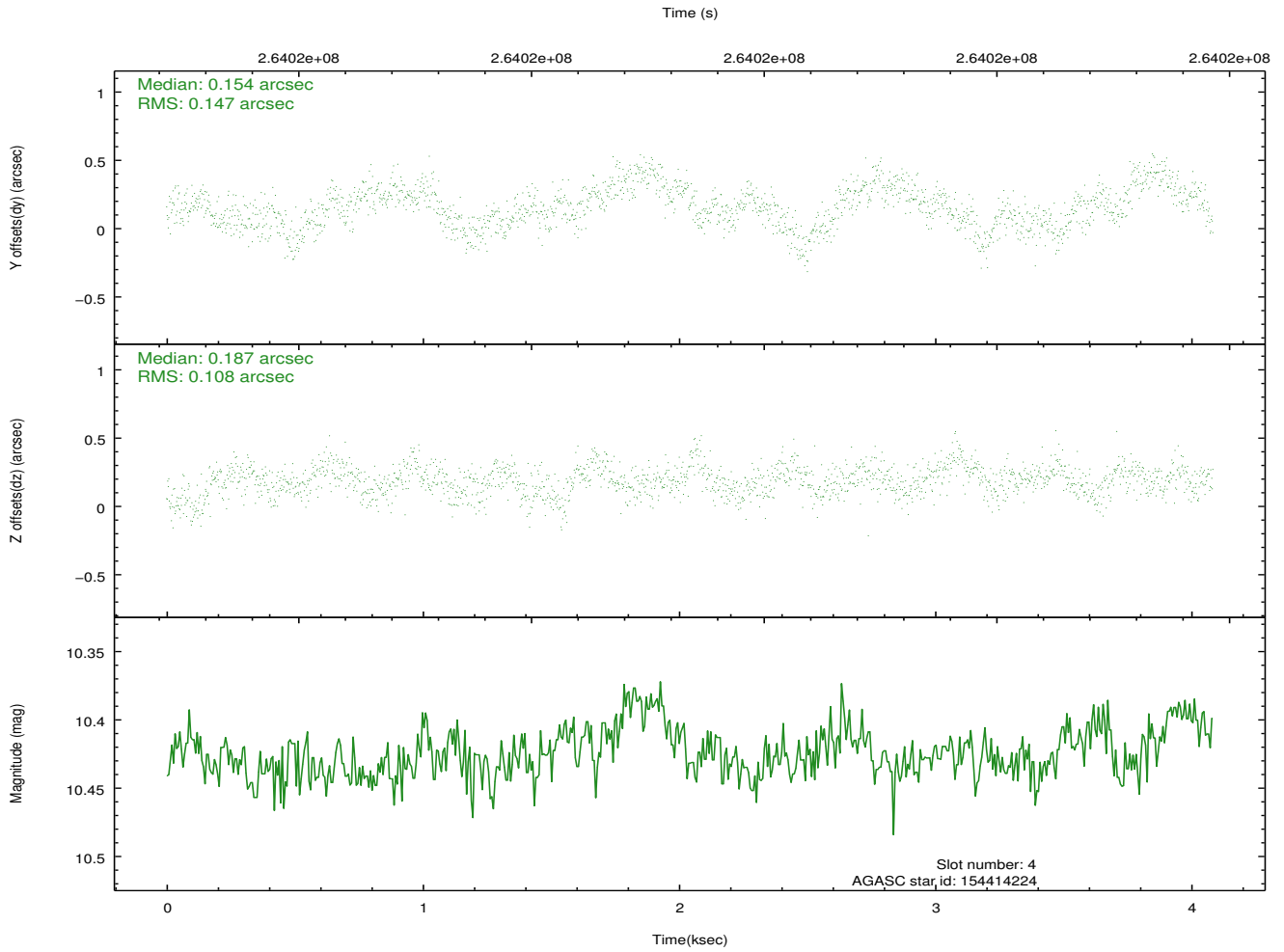
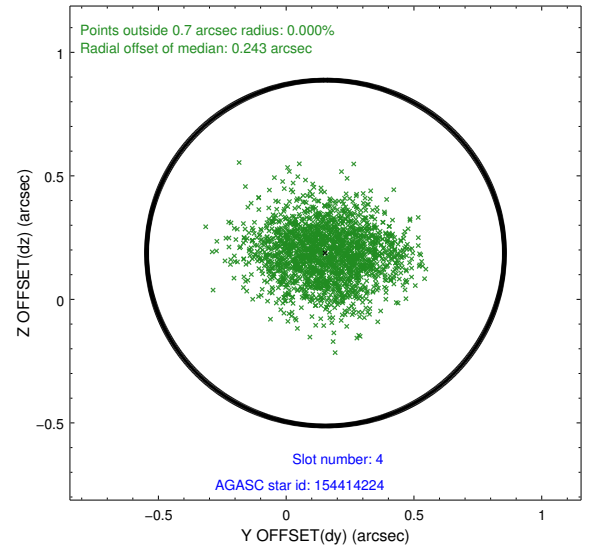
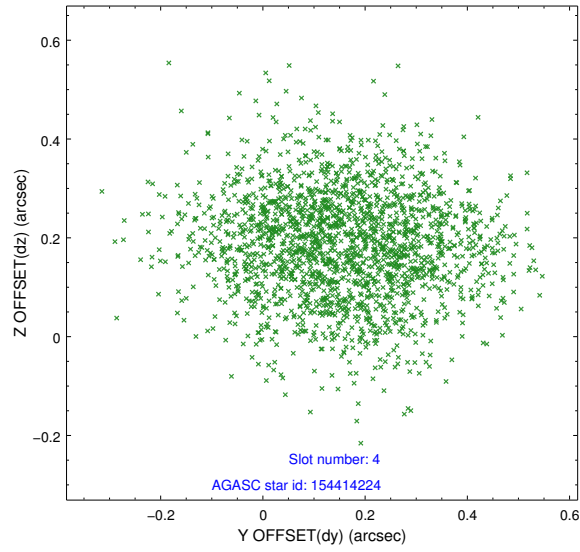
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	996	-0.063	-0.032	0.006	0.011	0.000000	0.000000	-761.95	-1734.01
1	FID	ACIS-S-4	7.19	996	0.075	0.030	0.007	0.012	0.000000	0.000000	2150.79	172.92
2	FID	ACIS-S-6	7.35	996	-0.040	0.009	0.007	0.013	0.000000	0.000000	402.05	812.05
3	GUIDE	154407976	10.05	1993	-0.425	-0.228	0.195	0.297	1.583780	16.132255	1471.83	1909.20
4	GUIDE	154414224	10.42	1993	0.154	0.187	0.193	0.317	2.519944	15.323533	-2003.15	-719.75
5	GUIDE	154415368	9.94	1989	0.072	-0.246	0.167	0.262	1.846155	15.452882	-1103.53	1486.64
6	GUIDE	154415736	10.05	1988	0.096	0.164	0.167	0.271	2.602502	15.313435	-2093.66	-994.08
7	GUIDE	154546408	9.51	1992	0.104	0.126	0.119	0.188	2.801627	15.282058	-2335.23	-1653.78

## 2.4 Star Slots

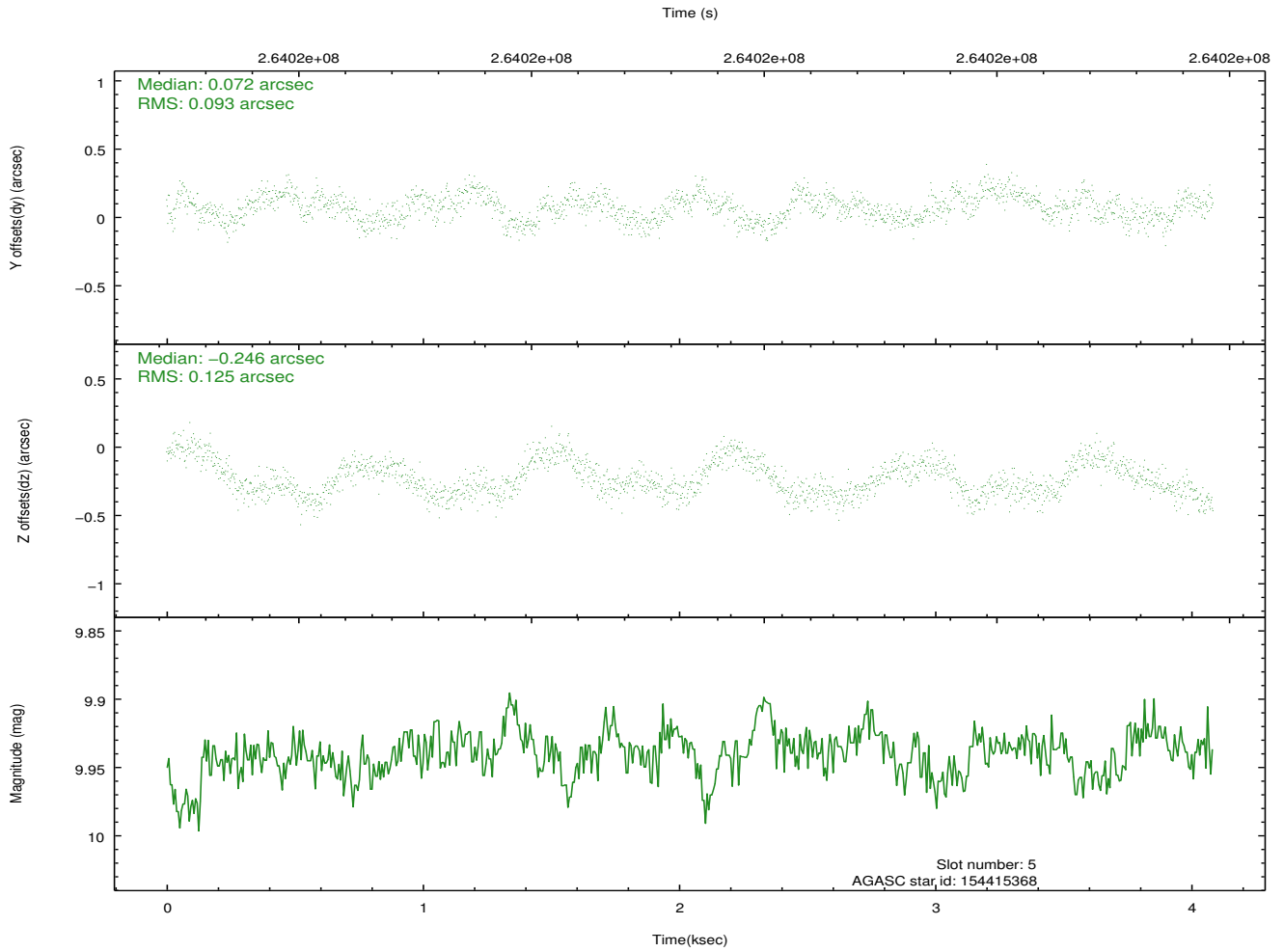
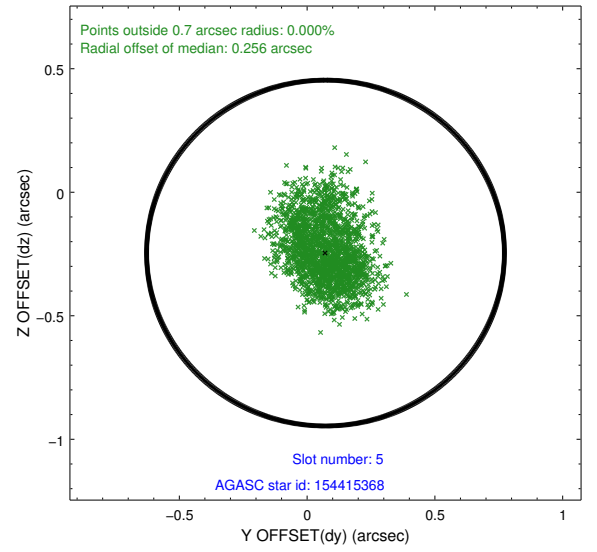
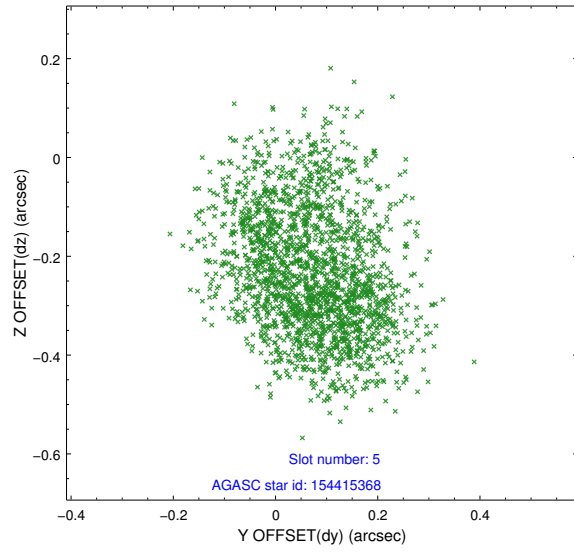
### 2.4.1 Slot 3



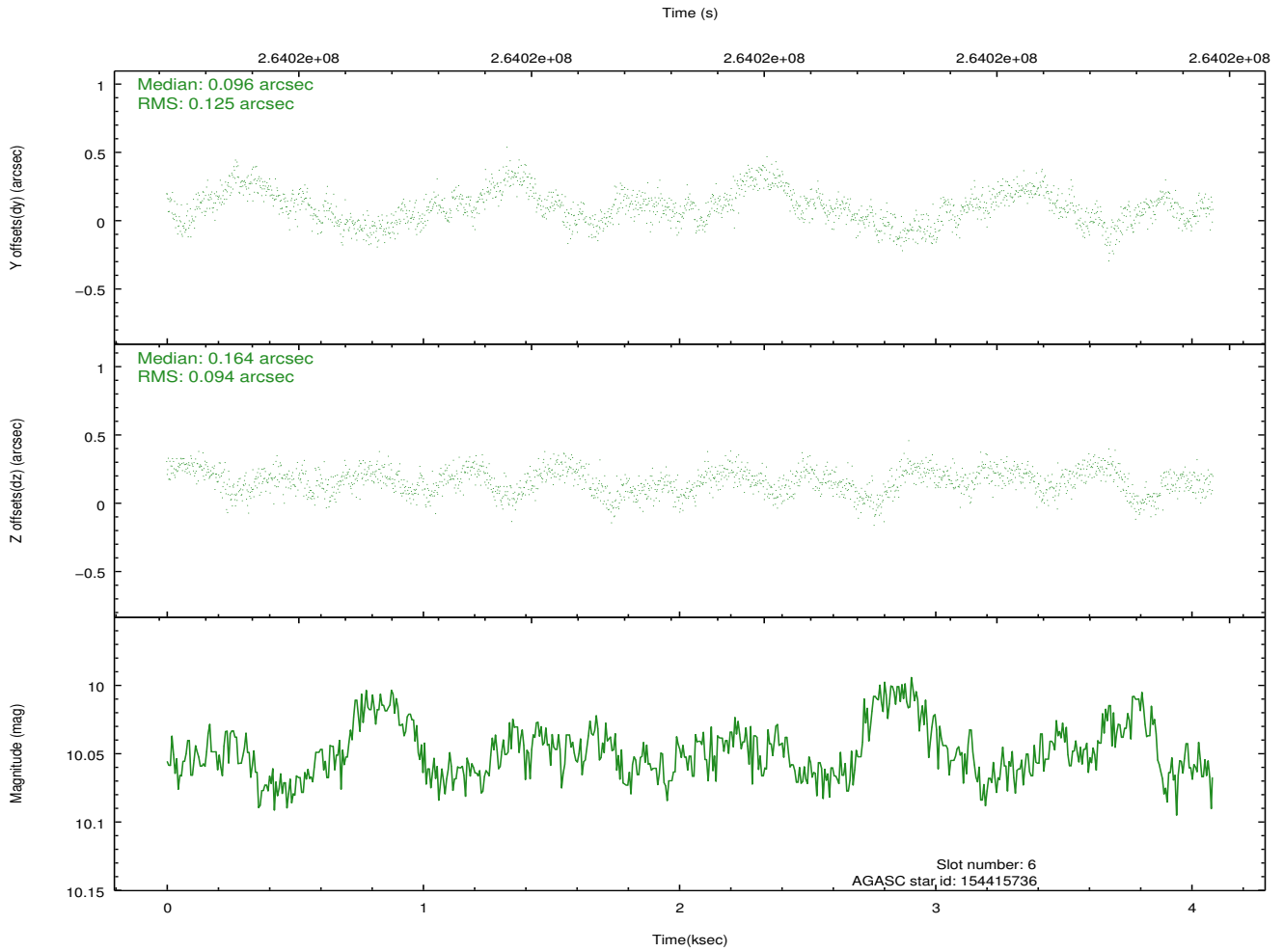
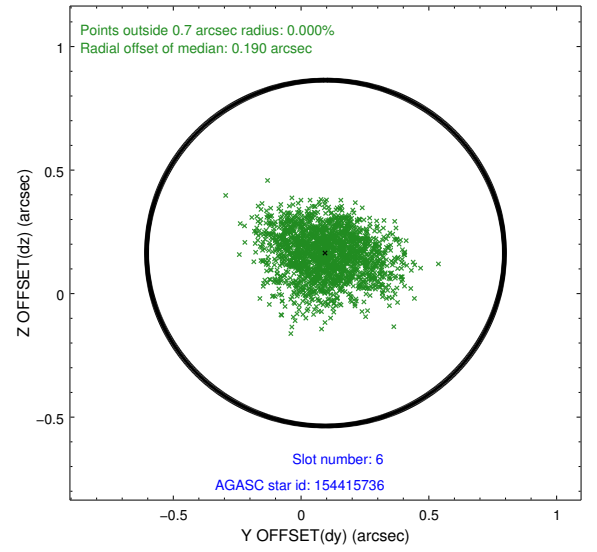
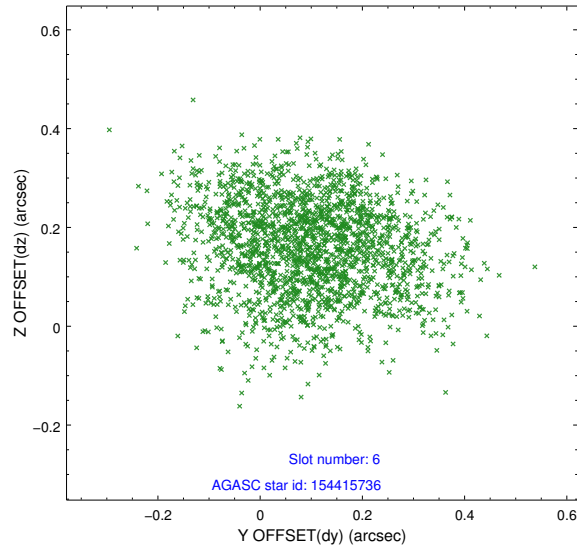
## 2.4.2 Slot 4



### 2.4.3 Slot 5

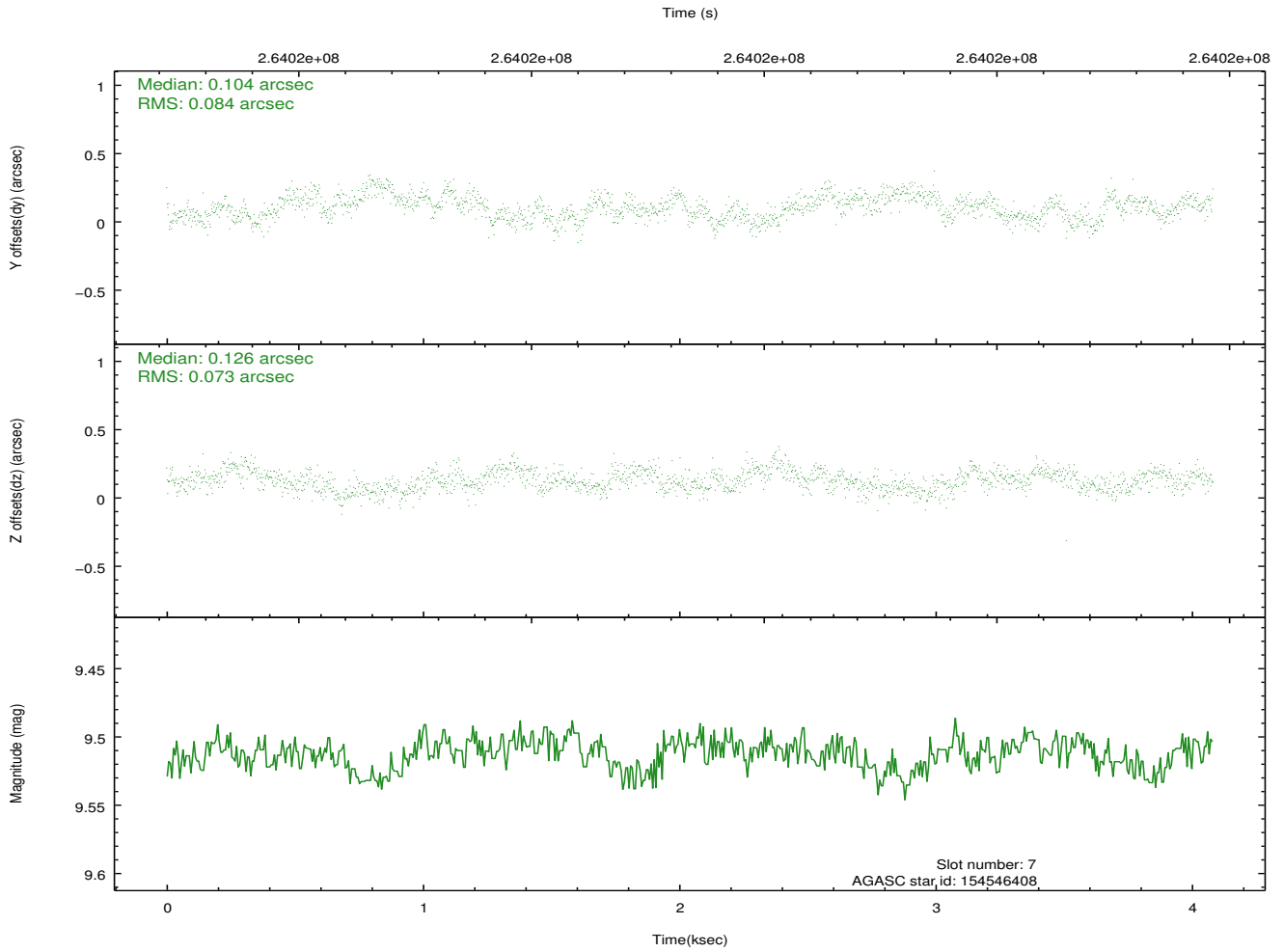
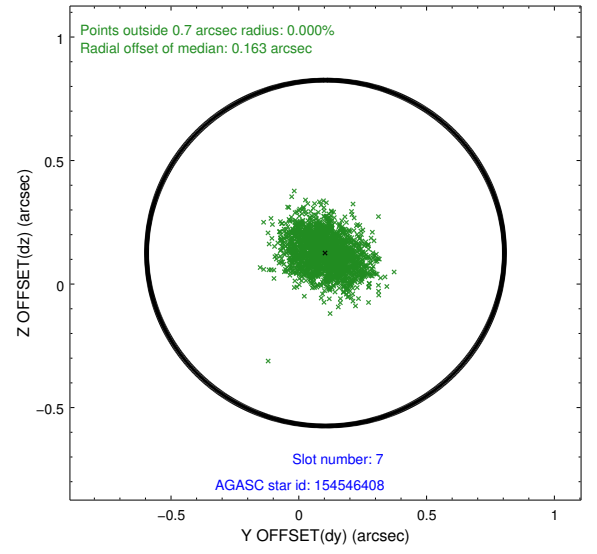
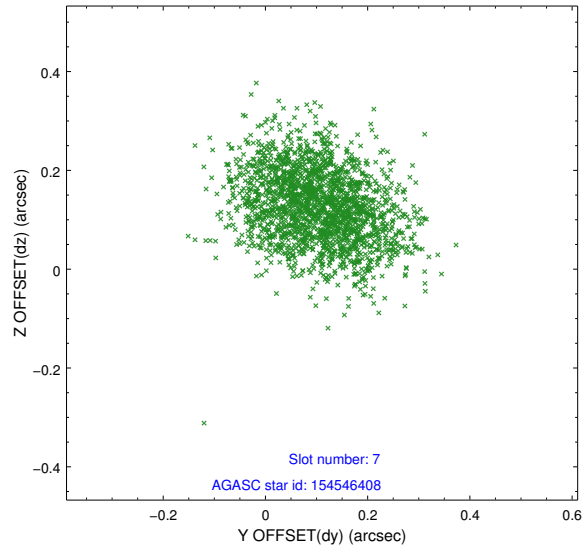


## 2.4.4 Slot 6



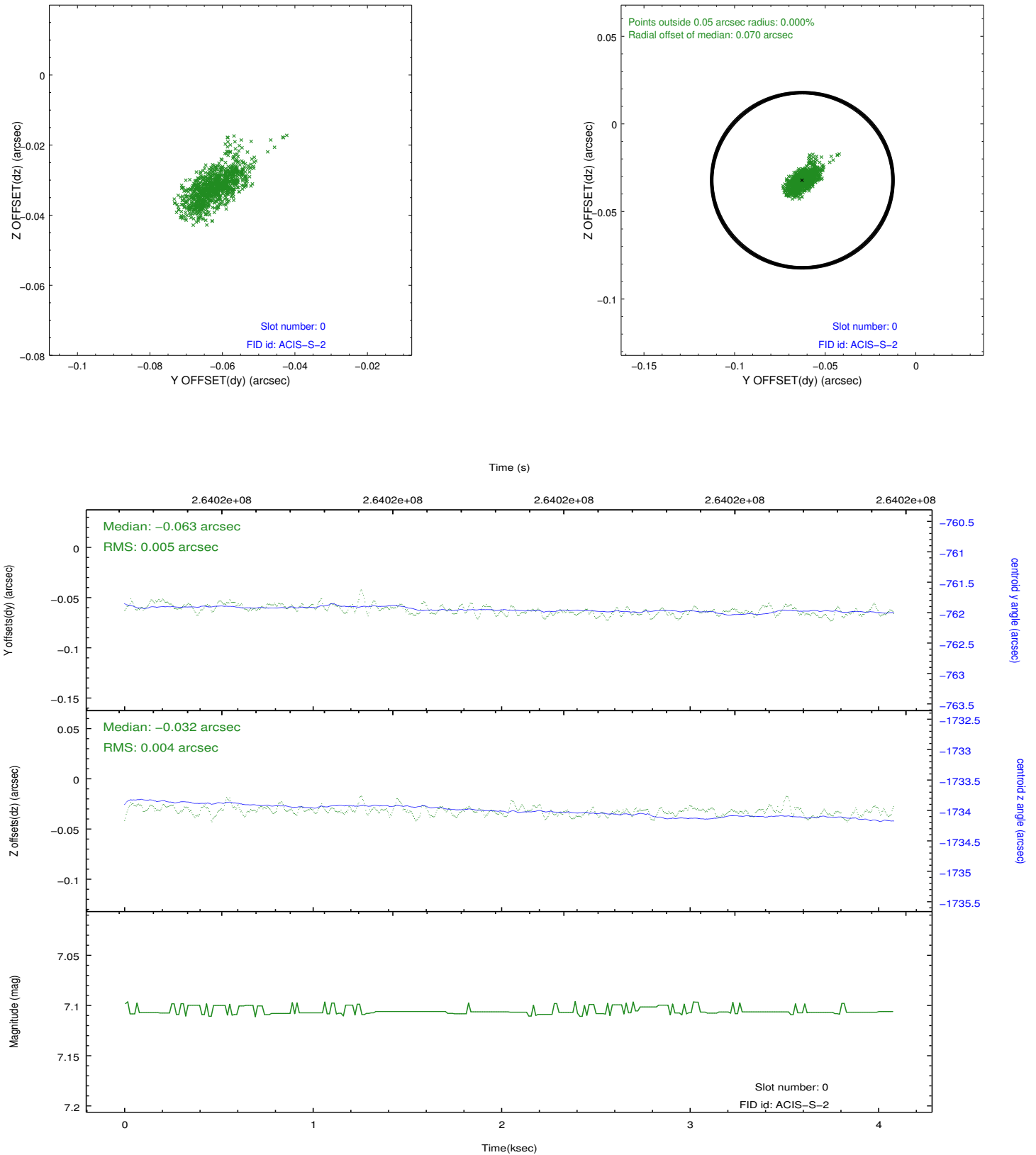


## 2.4.5 Slot 7

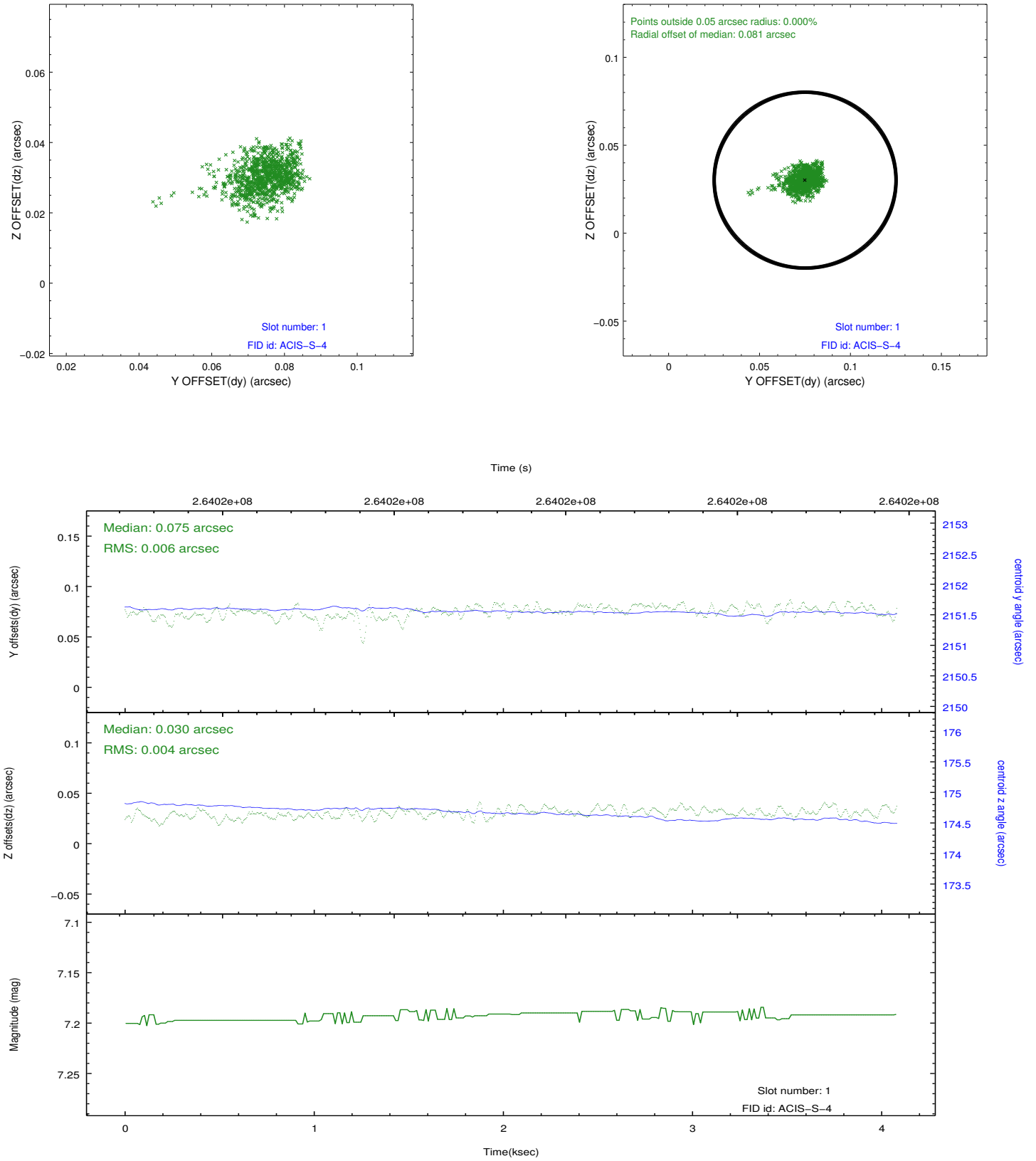


## 2.5 FID Slots

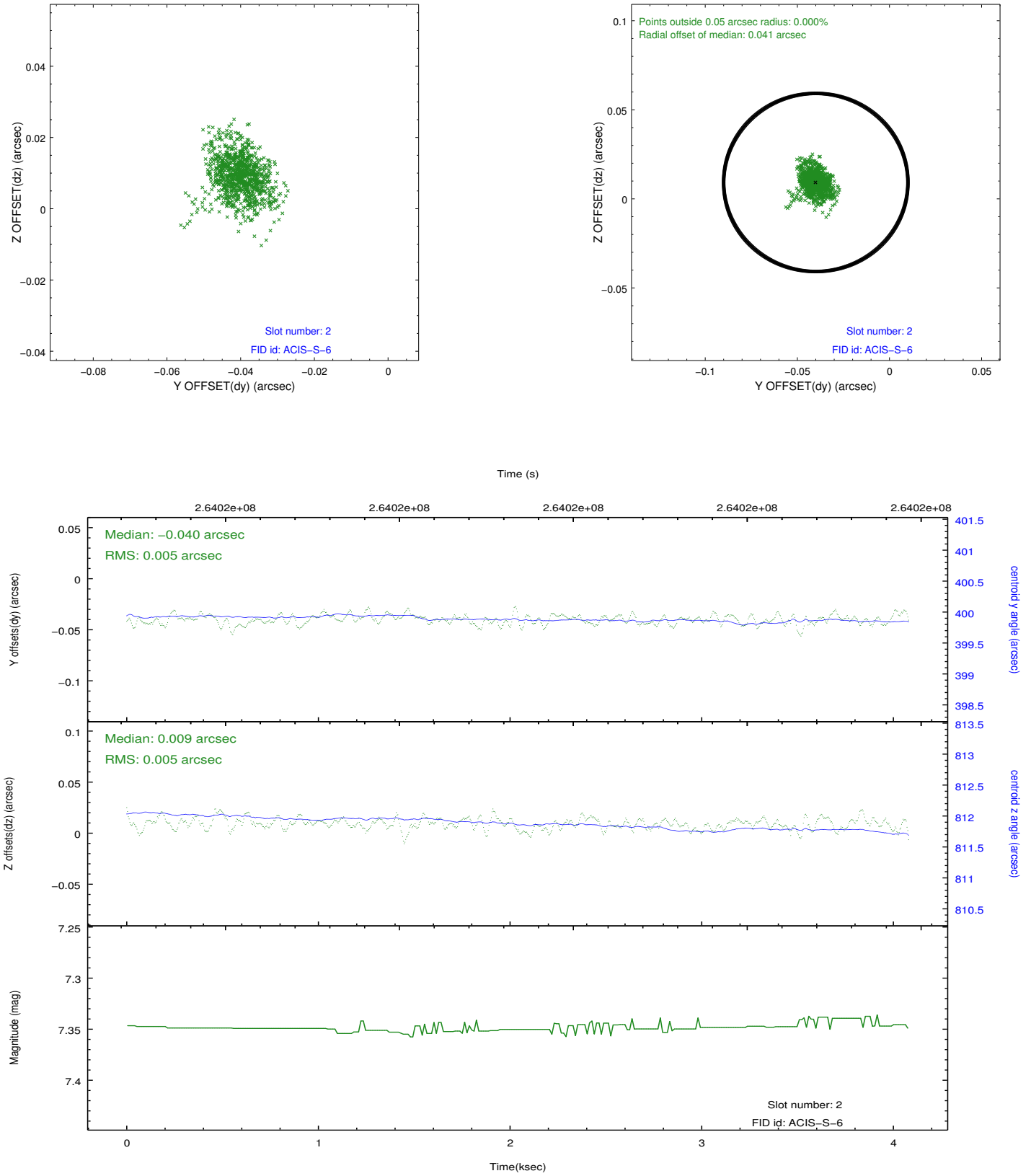
### 2.5.1 Slot 0



## 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)	2012.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.07679998

### A.2 Comments