

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7114 - L2 Version 2  
Chandra X-Ray Center

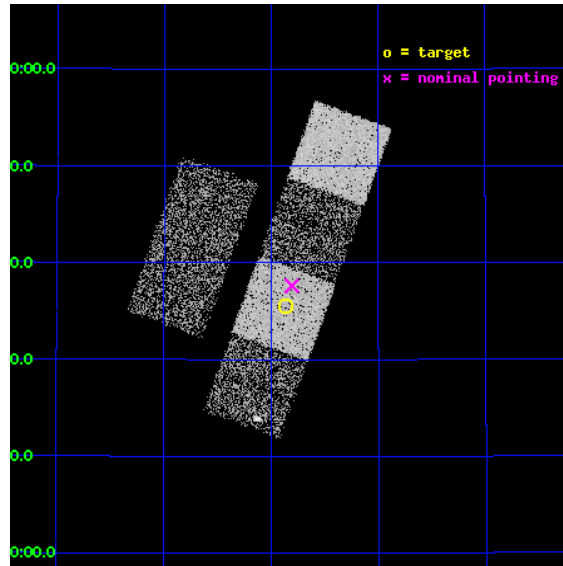
L2 Processing Date : Mar 24 2012

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# 1 Front

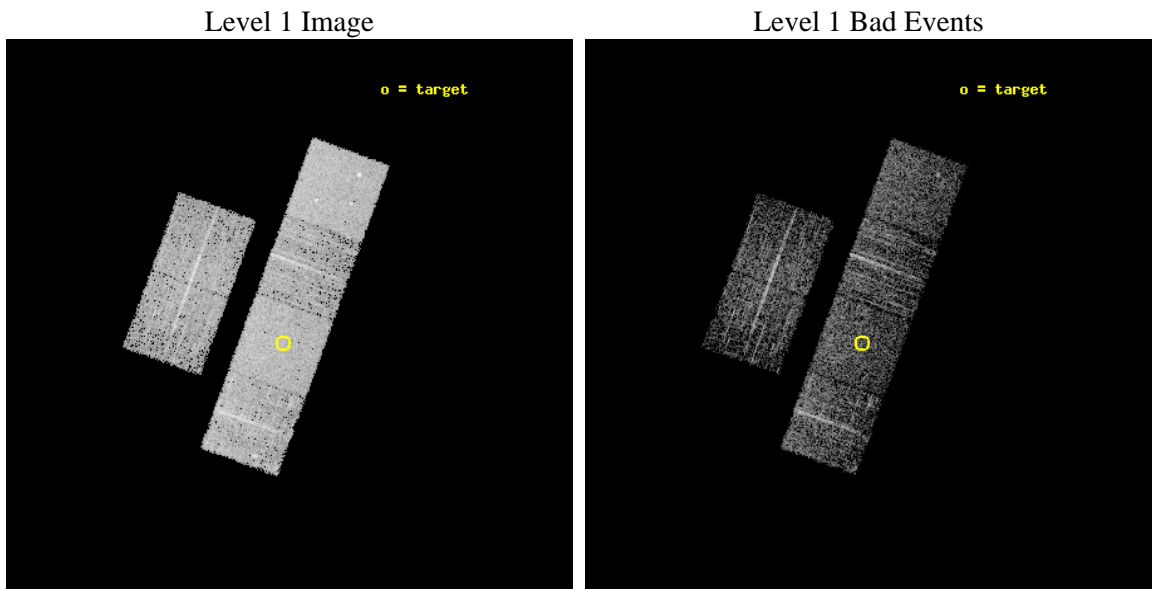
seq_num	600552	Sequence number
obs_id	7114	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 3600	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.966667	Observer's specified target RA [deg]
dec_targ	41.591389	Observer's specified target Dec [deg]
ra_nom	168.95156460853	Nominal RA [deg]
dec_nom	41.626979929161	Nominal Dec [deg]
roll_nom	110.03187512365	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2604.7999902964	Sum of GTIs [s]
livetime	2571.816444397	Livetime [s]
ontime2	2604.7999902964	Sum of GTIs [s]
ontime3	2604.7999902964	Sum of GTIs [s]
ontime5	2604.7999902964	Sum of GTIs [s]
ontime6	2604.7999902964	Sum of GTIs [s]
ontime7	2604.7999902964	Sum of GTIs [s]
ontime8	2604.7999902964	Sum of GTIs [s]
l2events	34815	Number of level 2 events



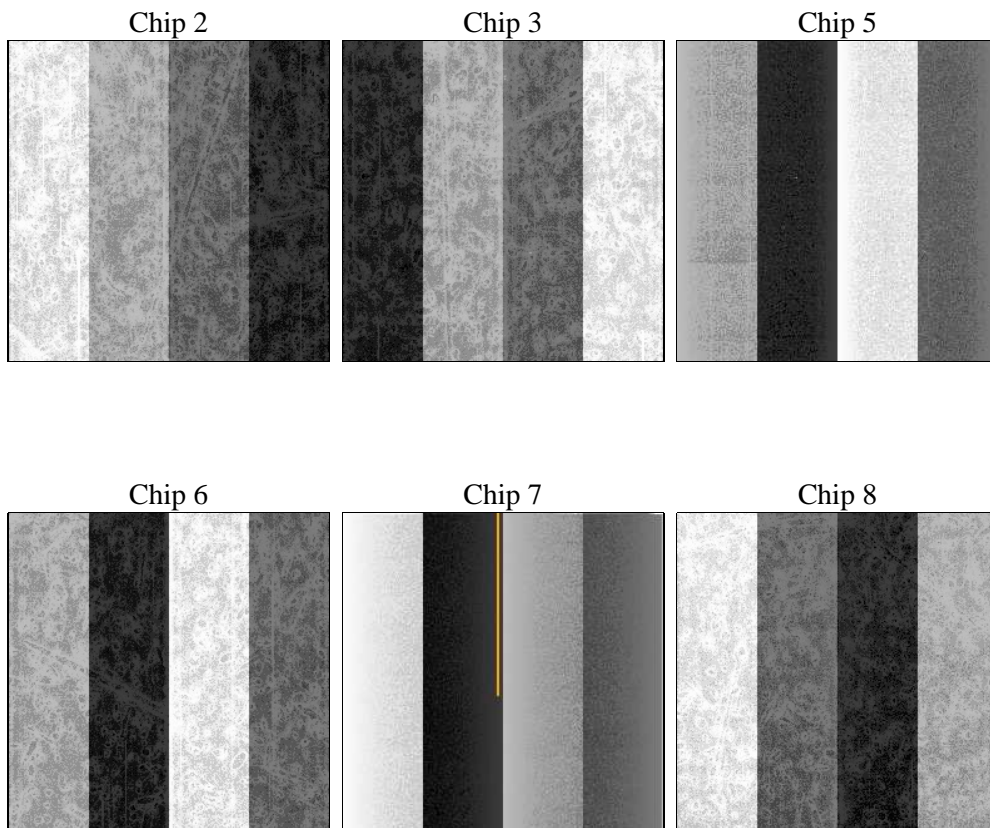
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2650.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2604.7999902964	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	2604.7999902964	Sum of GTIs [s]
date	2012-03-24T05:34:27	Date and time of file creation	ontime3	2604.7999902964	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2604.7999902964	Sum of GTIs [s]
			ontime6	2604.7999902964	Sum of GTIs [s]
			ontime7	2604.7999902964	Sum of GTIs [s]
			ontime8	2604.7999902964	Sum of GTIs [s]
			l1events	151646	Number of level 1 events

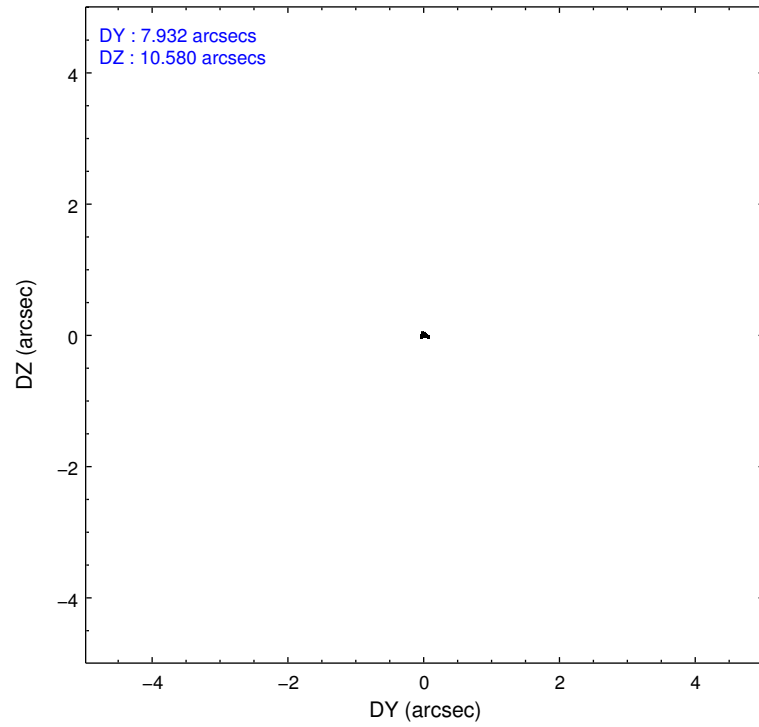
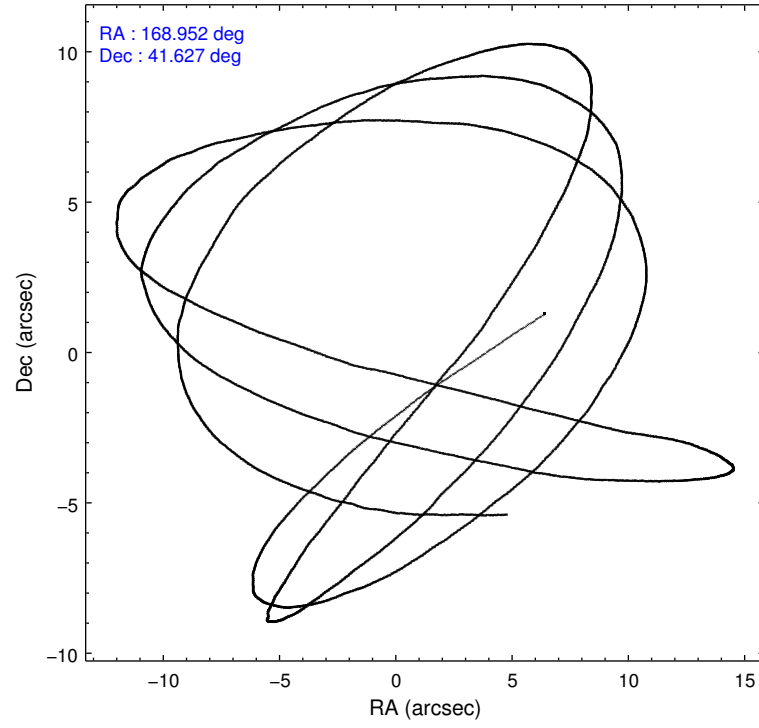
### 2.1.4 Events

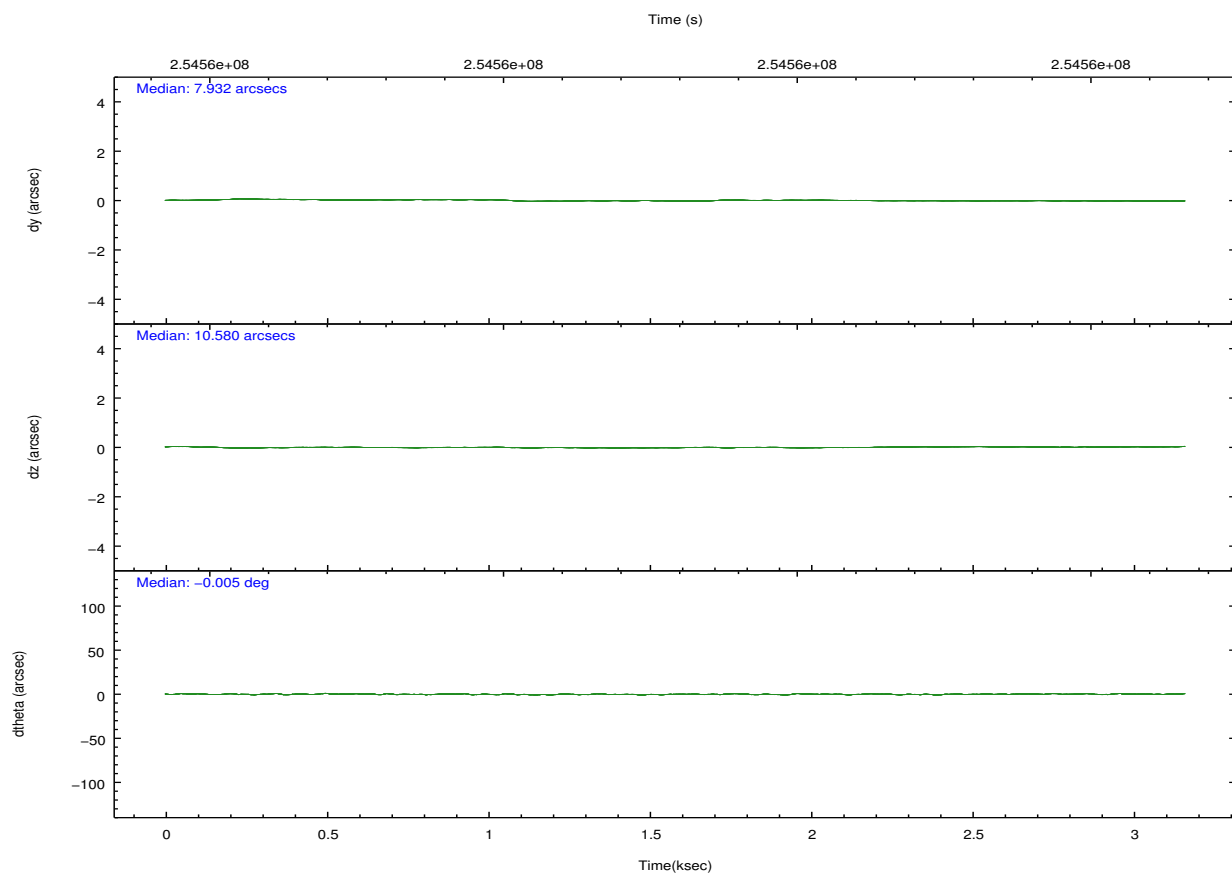
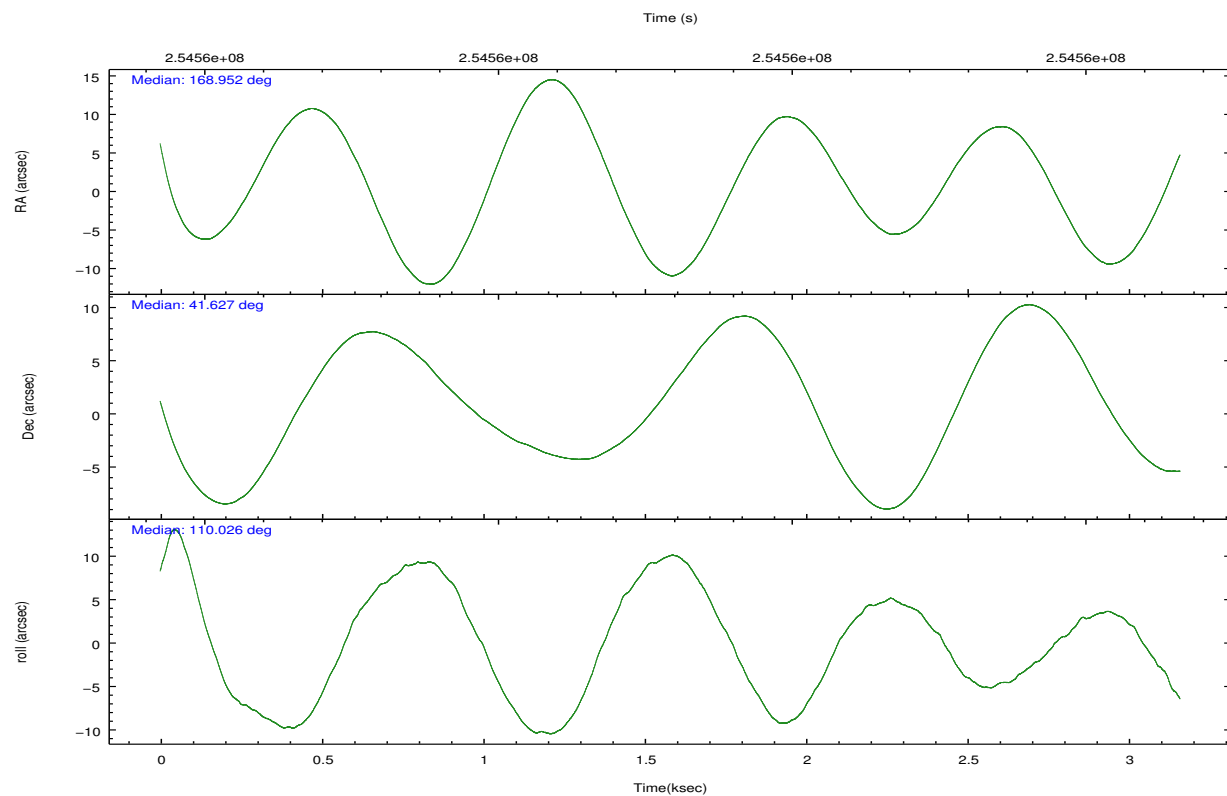
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21133	19705	32944	21865	29266	26733	grade 0 events	1195	1075	1493	1001	1048	1946
rejected events	18515	17316	17947	19334	17352	20922		5%	5%	4%	4%	3%	7%
rejected %	87%	87%	54%	88%	59%	78%	grade 1 events	10	15	47	11	34	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	563	467	4685	523	2425	1234
								2%	2%	14%	2%	8%	4%
							grade 3 events	246	250	564	261	1044	639
								1%	1%	1%	1%	3%	2%
							grade 4 events	213	201	546	217	1011	586
								1%	1%	1%	0%	3%	2%
							grade 5 events	811	964	2325	1066	2793	1283
								3%	4%	7%	4%	9%	4%
							grade 6 events	403	402	7735	531	6406	1416
								1%	2%	23%	2%	21%	5%
							grade 7 events	17692	16331	15549	18255	14505	19606
								83%	82%	47%	83%	49%	73%

## 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	168.980019	168.9515646085314	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.609876	41.62697992916117	Alternating exposures requested	N	N
[deg] Pointing Roll	109.856316	110.0318751236549	[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)	254561515.184000	254560390.35075			
Observation start date	2006-01-25T07:30:50	2006-01-25T07:13:10			
[s] Observation end time (MET)	254564165.184000	254564673.82595			
Observation end date	2006-01-25T08:15:00	2006-01-25T08:24:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





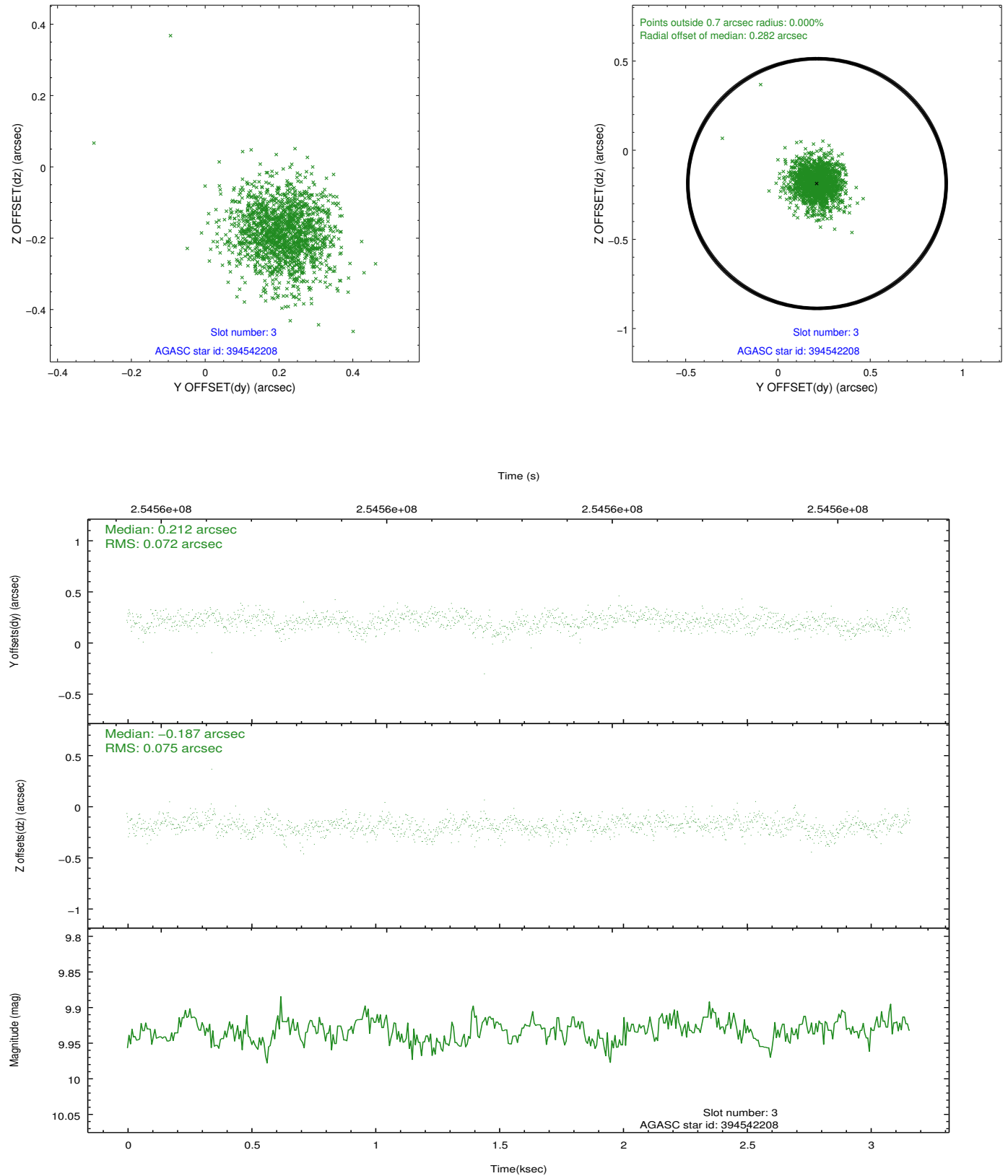
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	769	-0.050	-0.023	0.007	0.012	0.000000	0.000000	-760.72	-1731.89
1	FID	ACIS-S-4	7.21	771	0.130	0.030	0.006	0.010	0.000000	0.000000	2151.77	174.64
2	FID	ACIS-S-5	7.23	771	-0.112	0.001	0.006	0.012	0.000000	0.000000	-1811.08	170.47
3	GUIDE	394542208	9.93	1540	0.212	-0.187	0.108	0.178	168.879578	40.980824	-2036.57	1025.19
4	GUIDE	394797960	7.42	1543	-0.009	-0.094	0.061	0.096	169.222832	41.725644	170.41	-755.39
5	GUIDE	394804168	9.86	1522	-0.236	0.154	0.136	0.223	169.296584	42.333356	2165.50	-1678.26
6	GUIDE	394805248	9.65	1542	-0.056	0.014	0.109	0.182	169.406962	42.322310	2030.94	-1942.30
7	GUIDE	395182368	9.35	1542	0.088	0.107	0.097	0.158	169.999911	41.311020	-1931.61	-2235.57

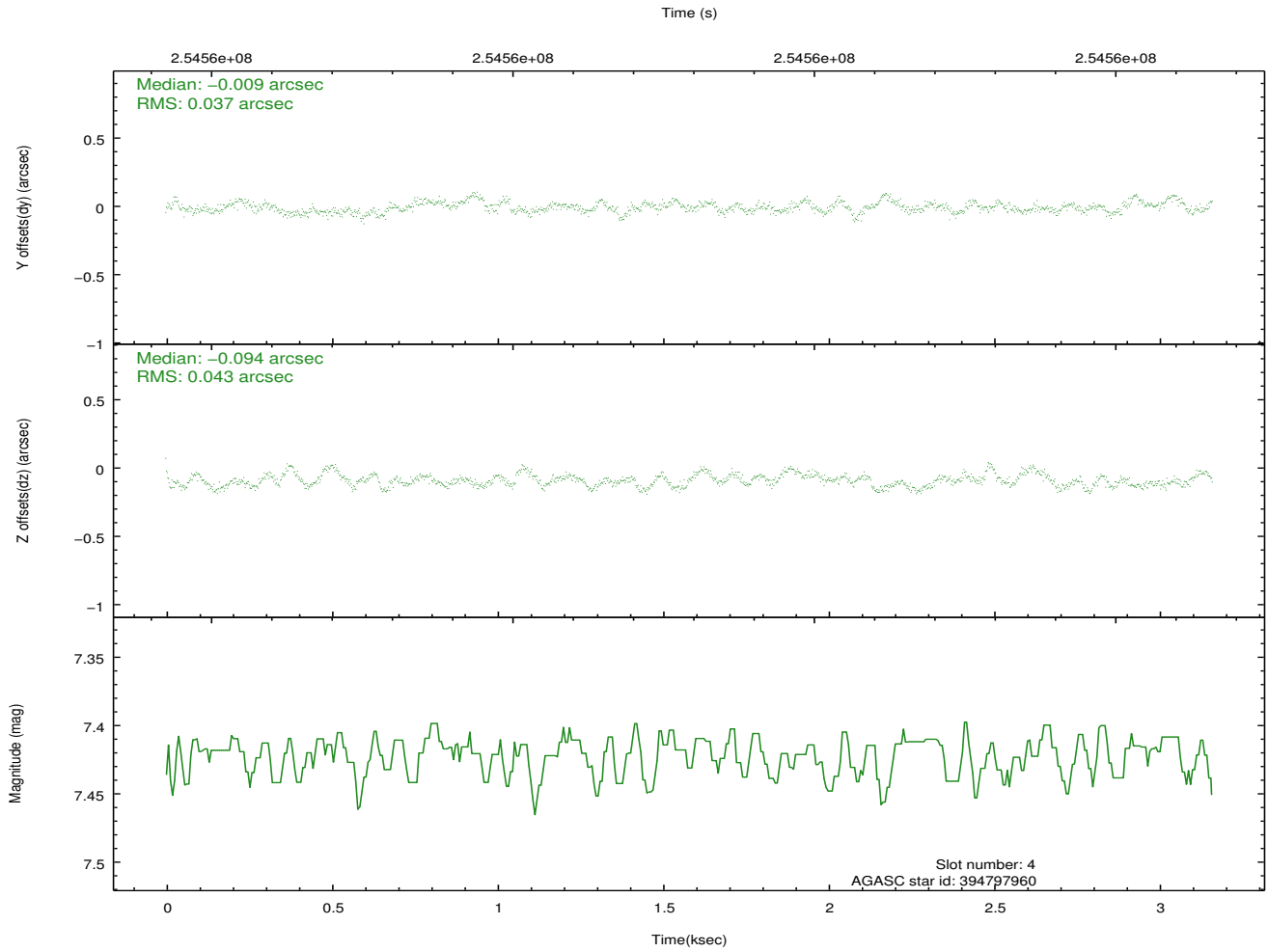
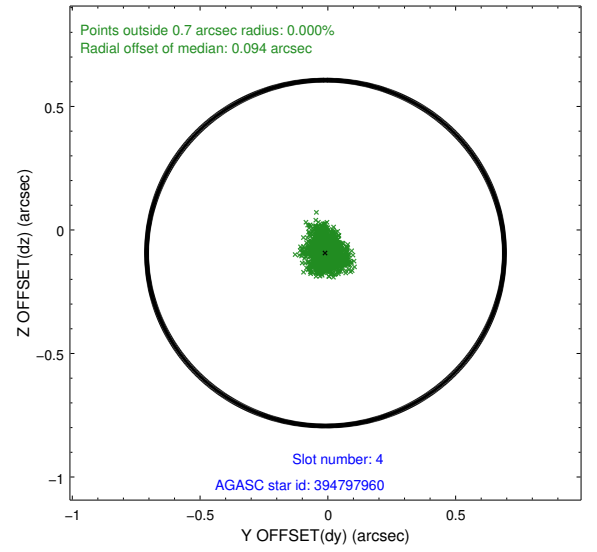
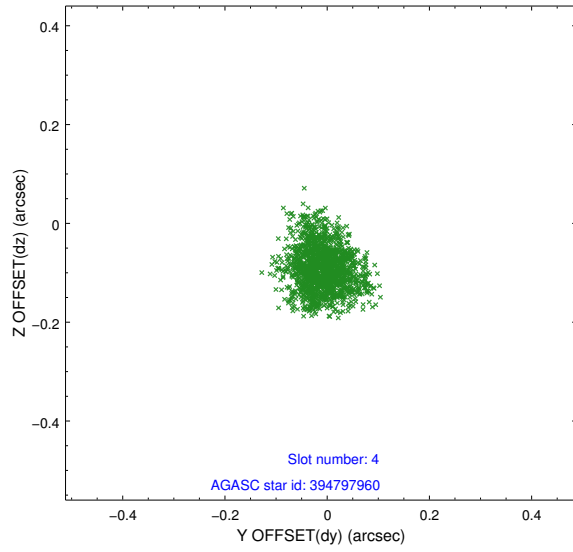


## 2.4 Star Slots

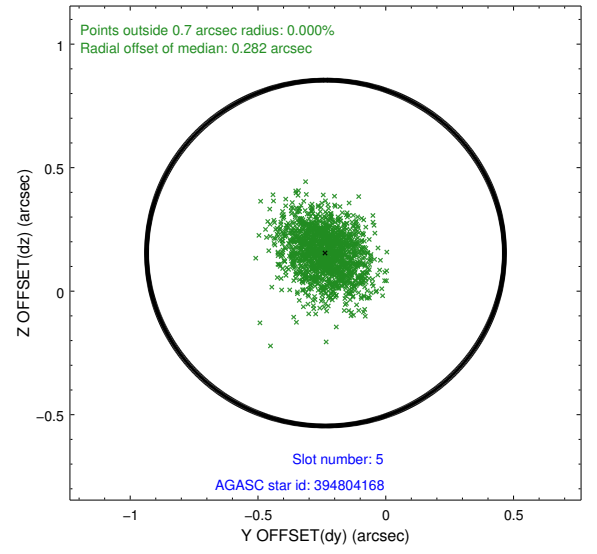
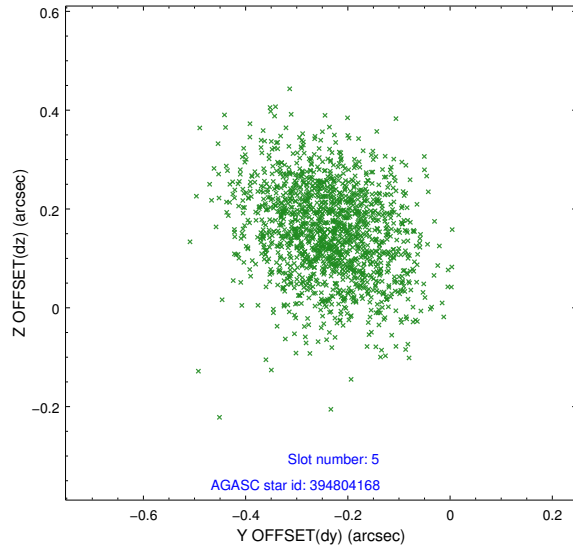
### 2.4.1 Slot 3



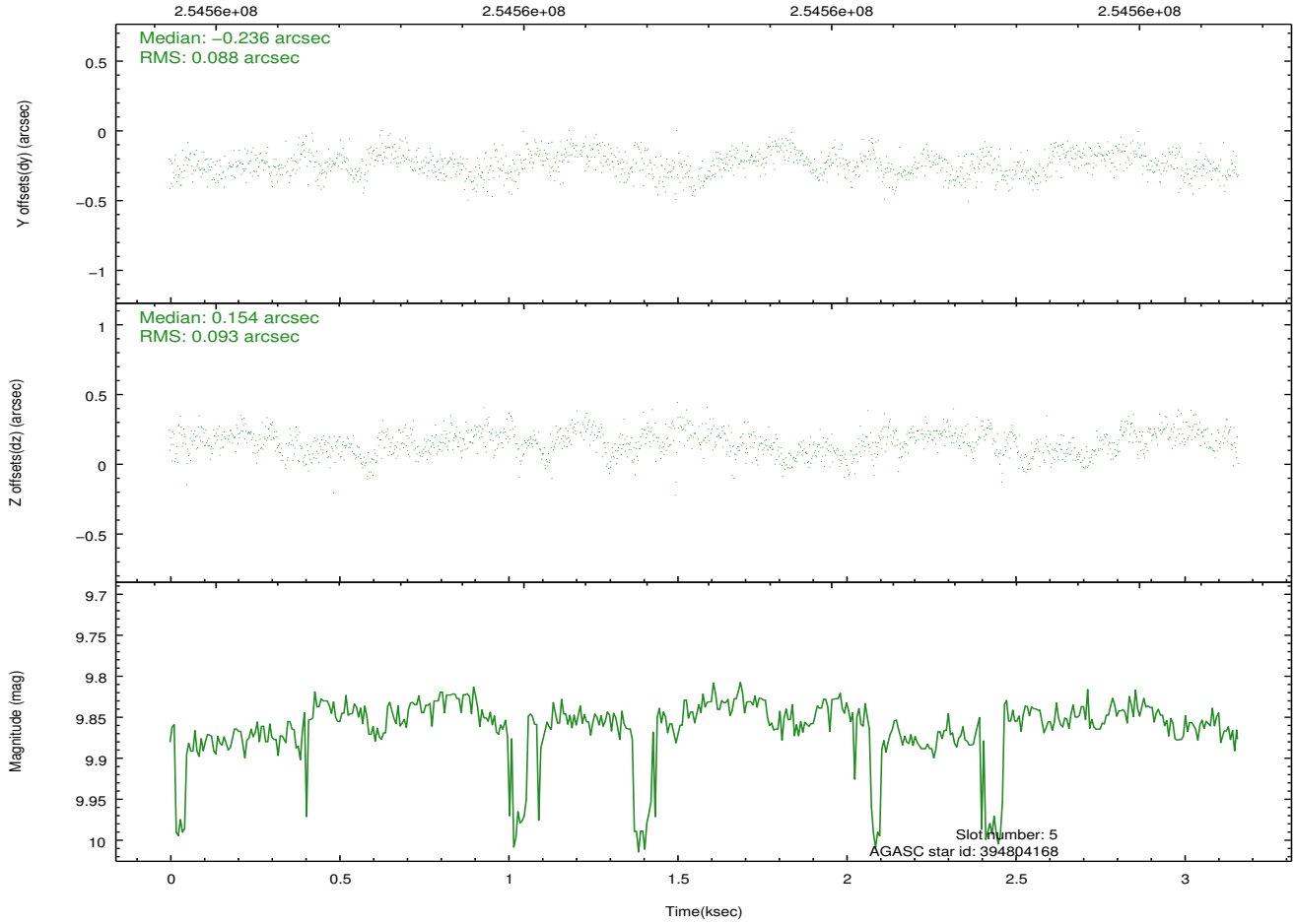
## 2.4.2 Slot 4



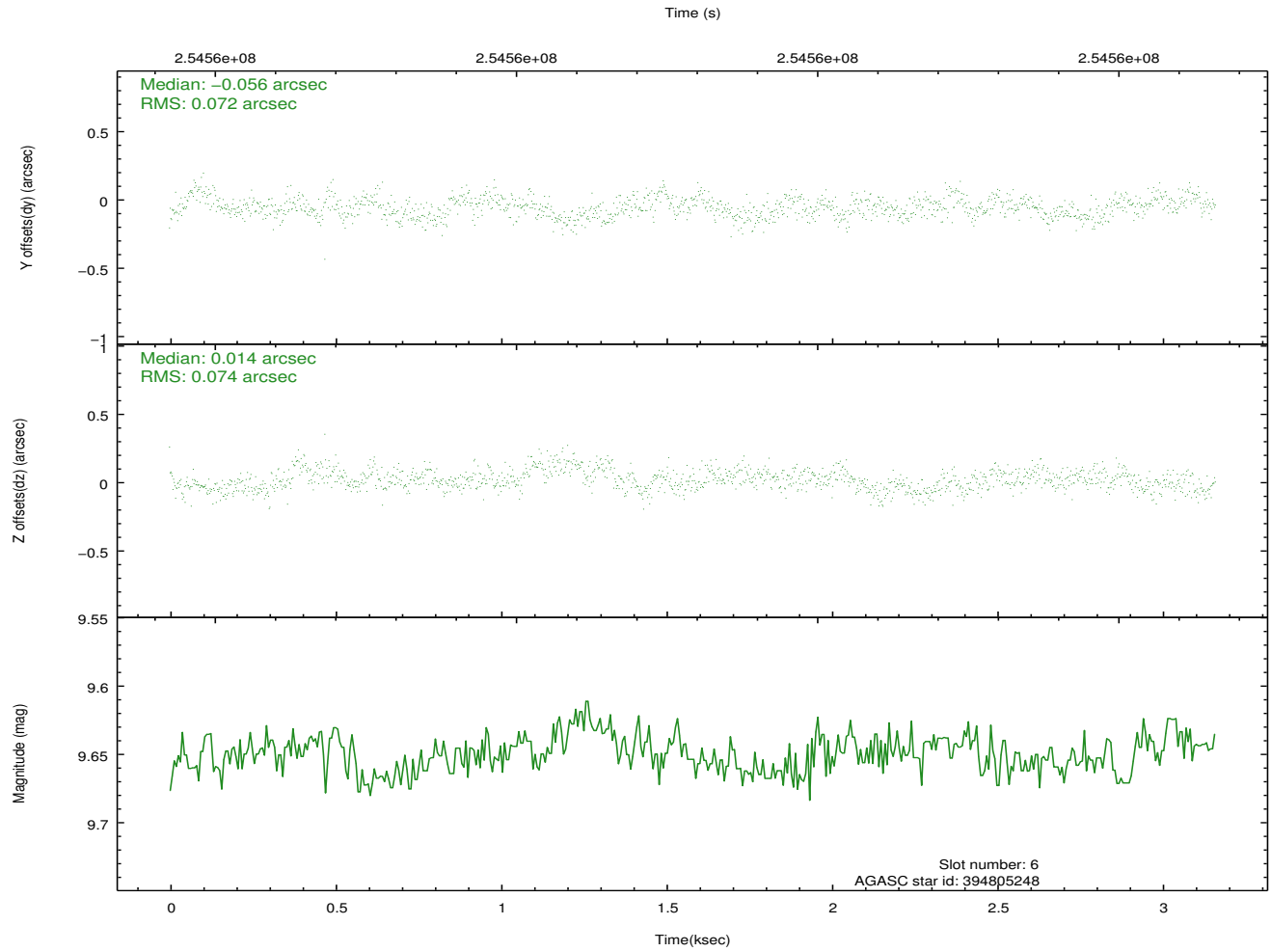
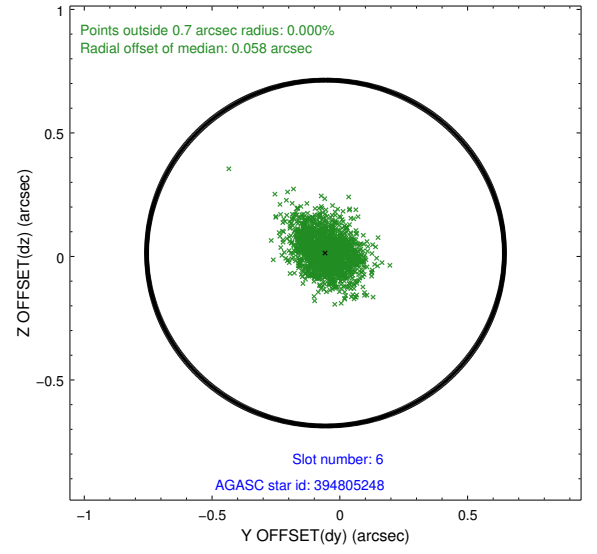
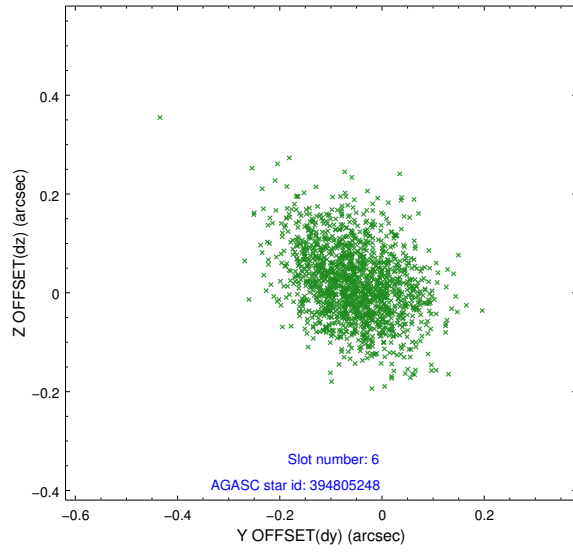
### 2.4.3 Slot 5



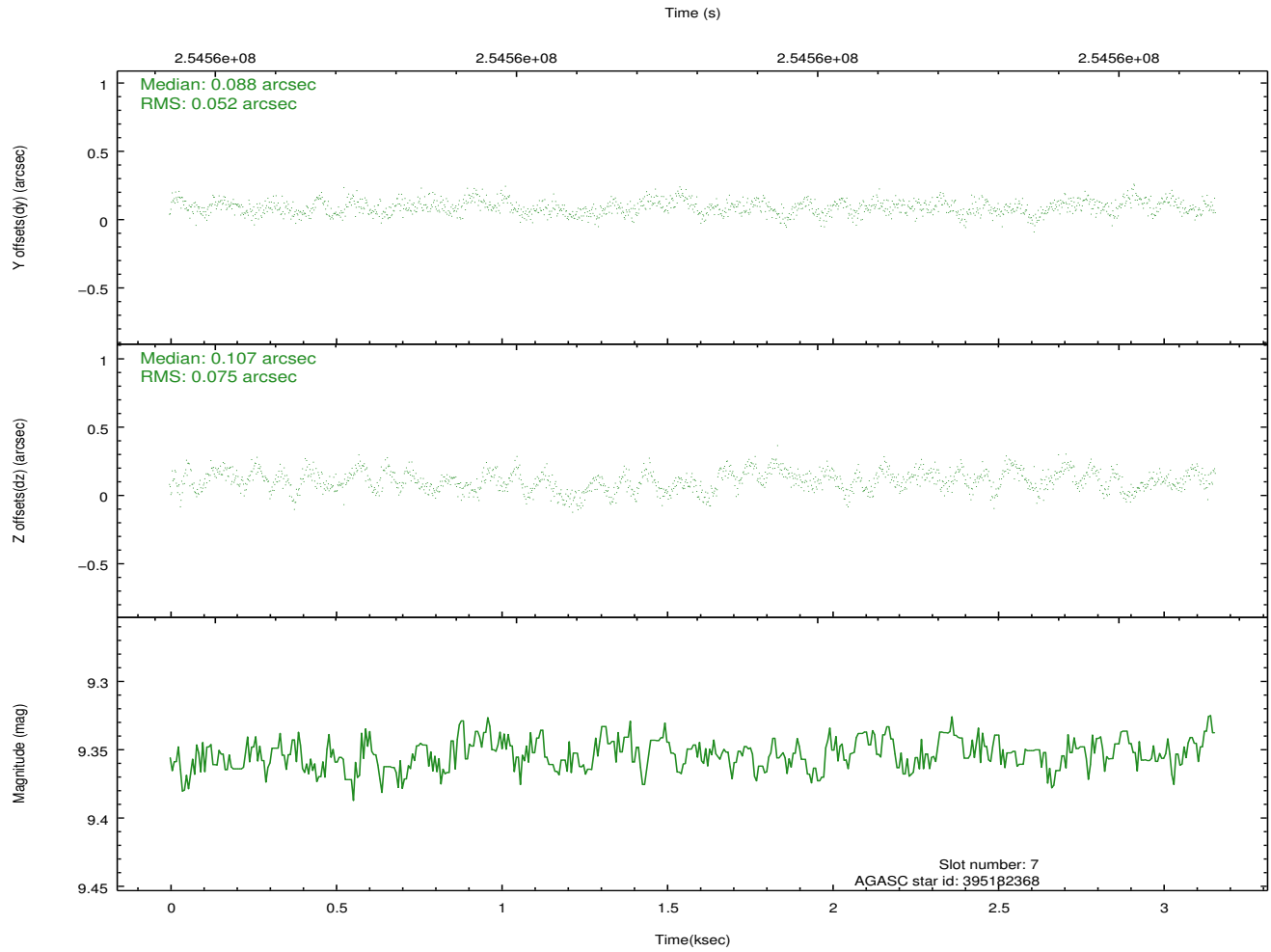
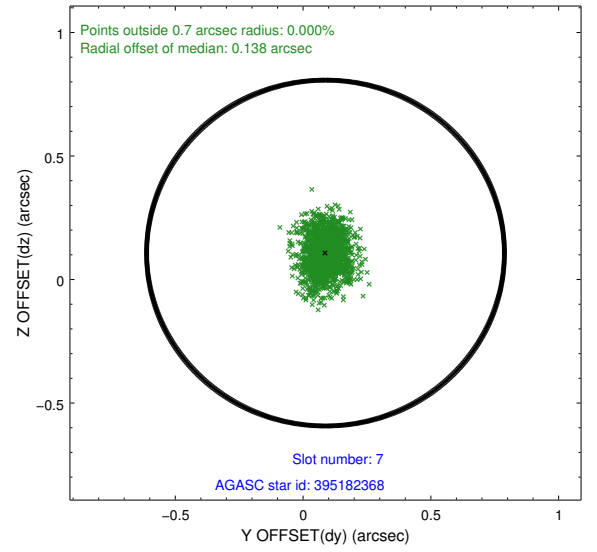
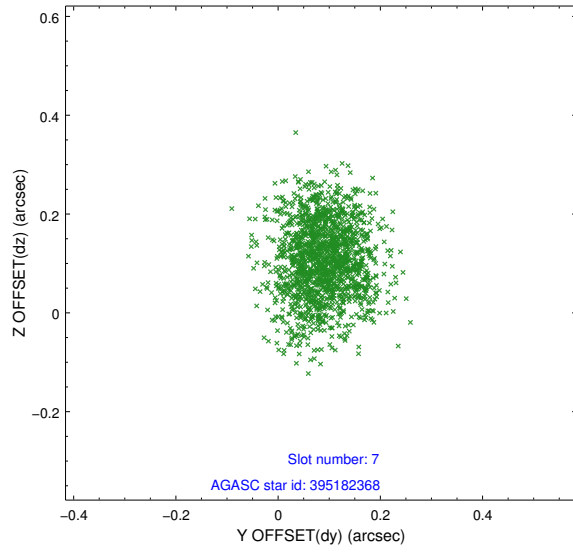
Time (s)



## 2.4.4 Slot 6

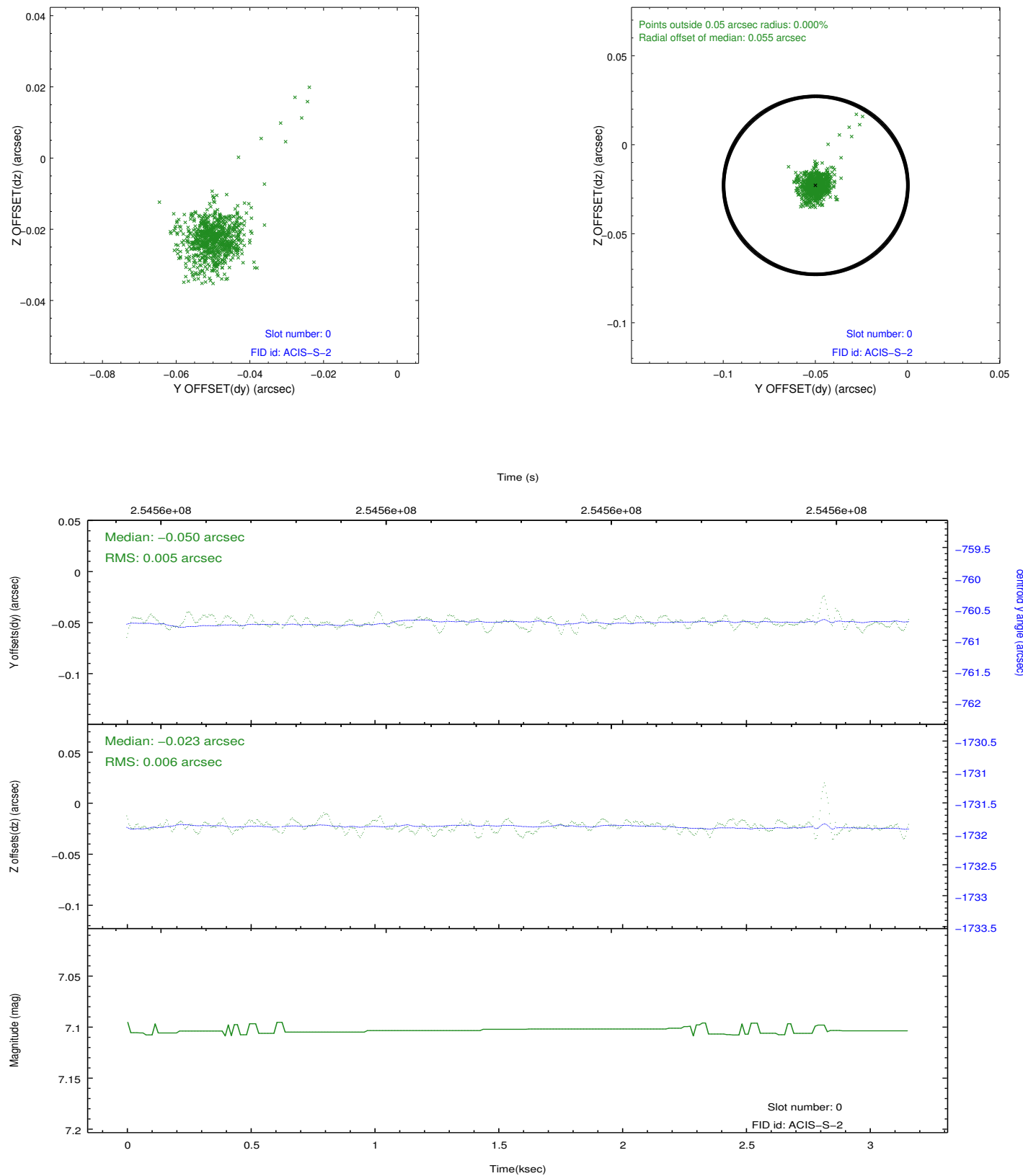


## 2.4.5 Slot 7

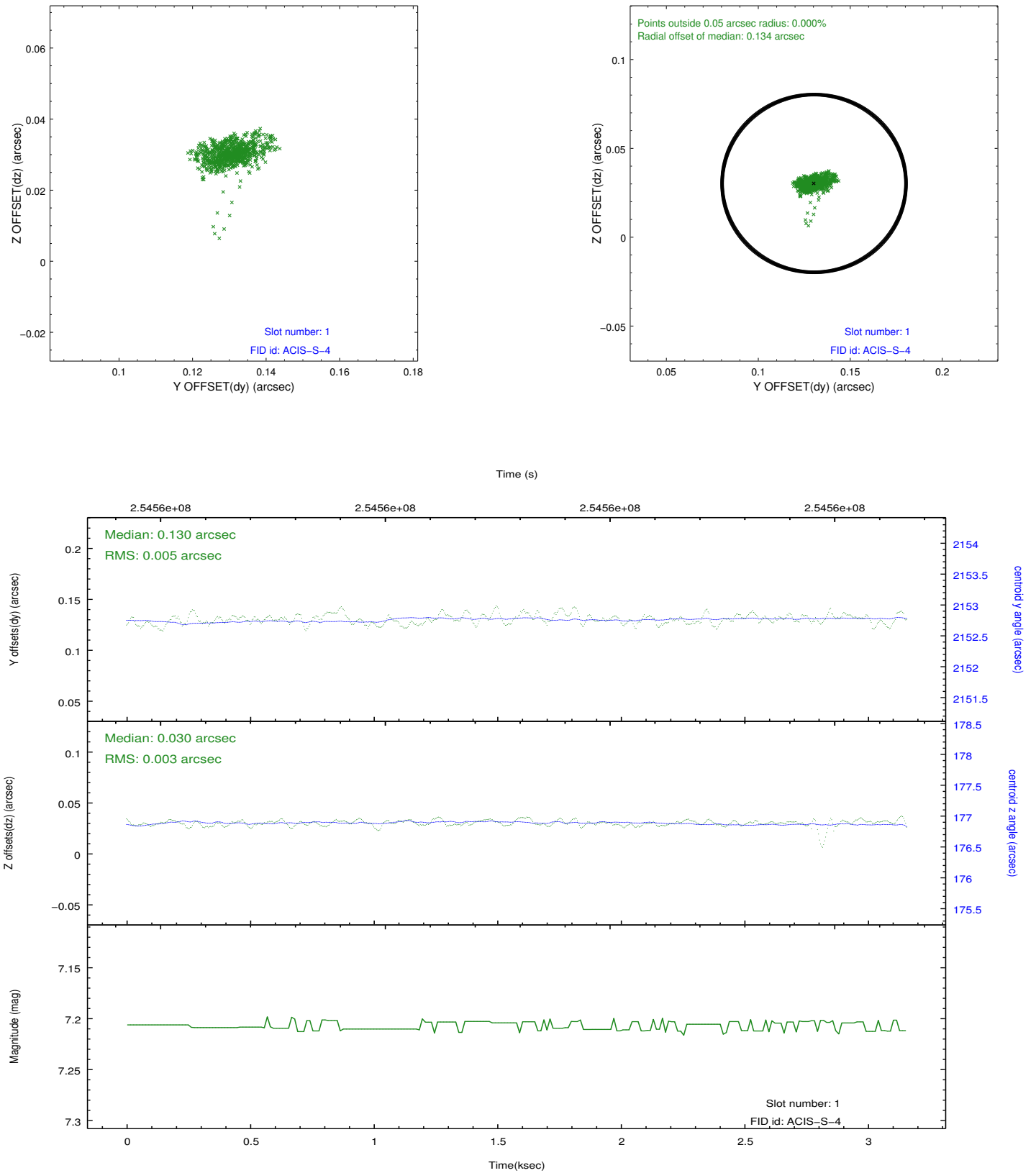


## 2.5 FID Slots

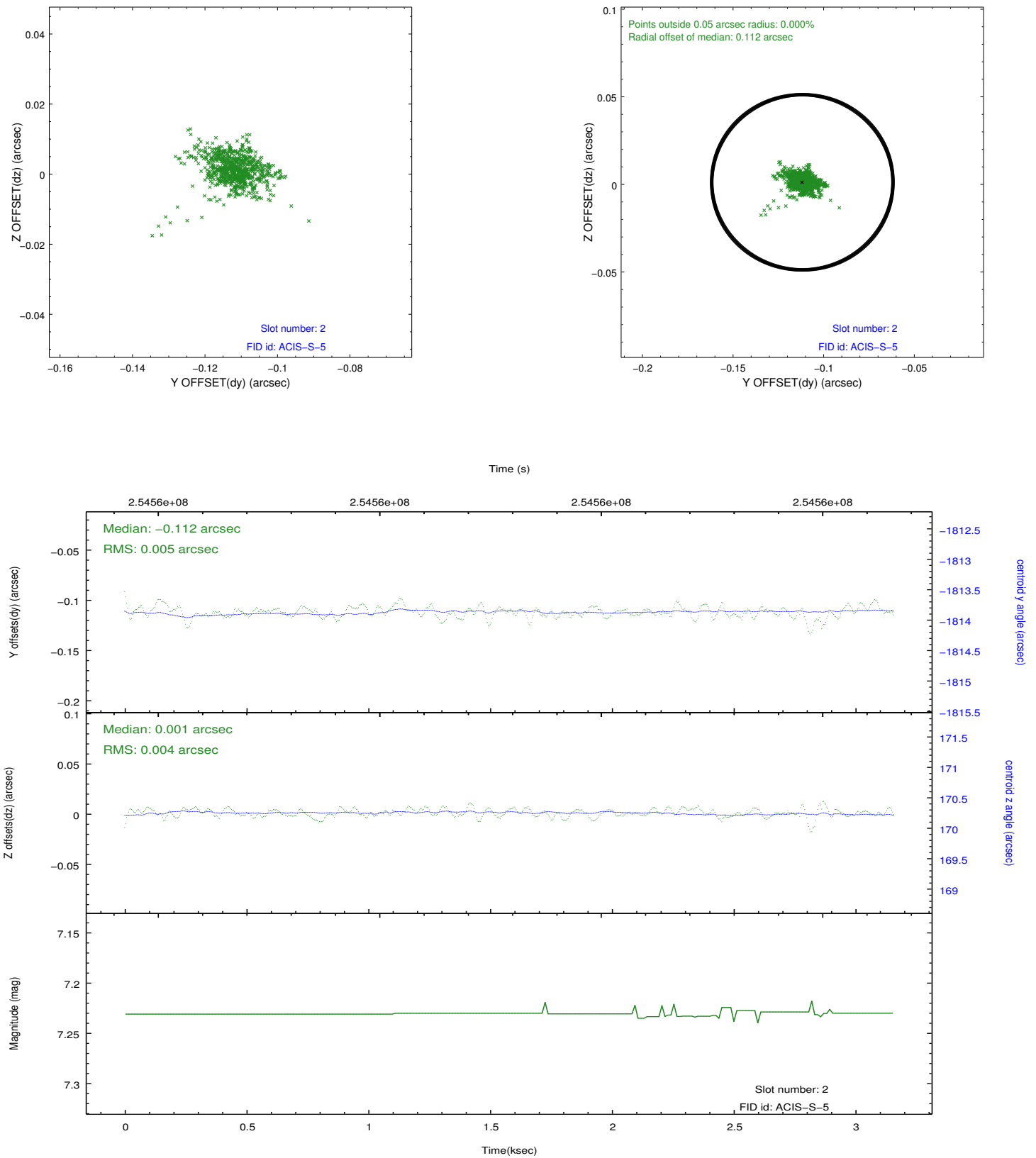
### 2.5.1 Slot 0



## 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)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.60479999

### A.2 Comments