

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7099 - L2 Version 2  
Chandra X-Ray Center

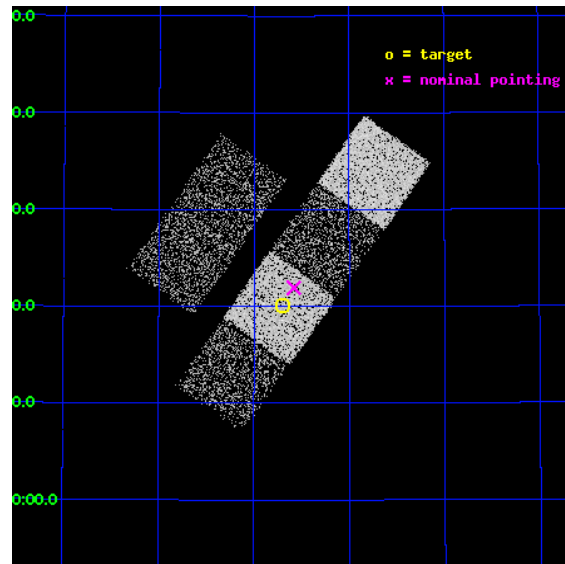
L2 Processing Date : Mar 24 2012

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# 1 Front

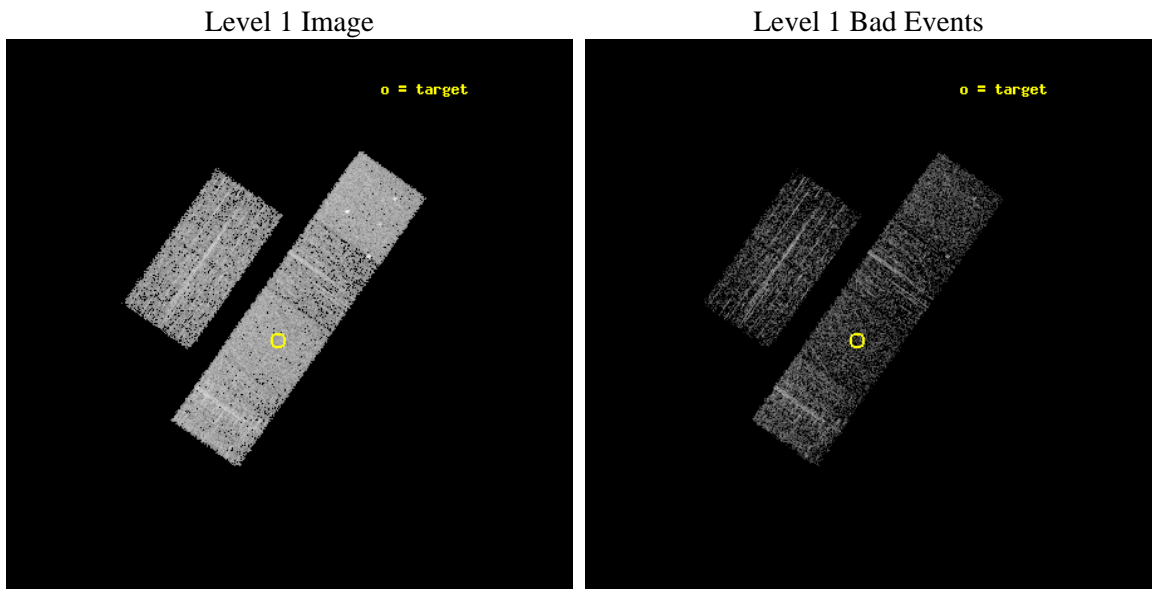
seq_num	600537	Sequence number
obs_id	7099	Observation id
title	A Complete Sample of ULX Host Galaxies	Proposal title
observer	Douglas Swartz	Principal investigator
object	NGC 3985	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	179.175417	Observer's specified target RA [deg]
dec_targ	48.333889	Observer's specified target Dec [deg]
ra_nom	179.14522835068	Nominal RA [deg]
dec_nom	48.36533601685	Nominal Dec [deg]
roll_nom	125.17708776497	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1756.7155776918	Sum of GTIs [s]
livetime	1734.4709872799	Livetime [s]
ontime2	1756.7566176951	Sum of GTIs [s]
ontime3	1756.5924775898	Sum of GTIs [s]
ontime5	1756.6745575964	Sum of GTIs [s]
ontime6	1756.6335175931	Sum of GTIs [s]
ontime7	1756.7155776918	Sum of GTIs [s]
ontime8	1753.3103578091	Sum of GTIs [s]
l2events	23973	Number of level 2 events



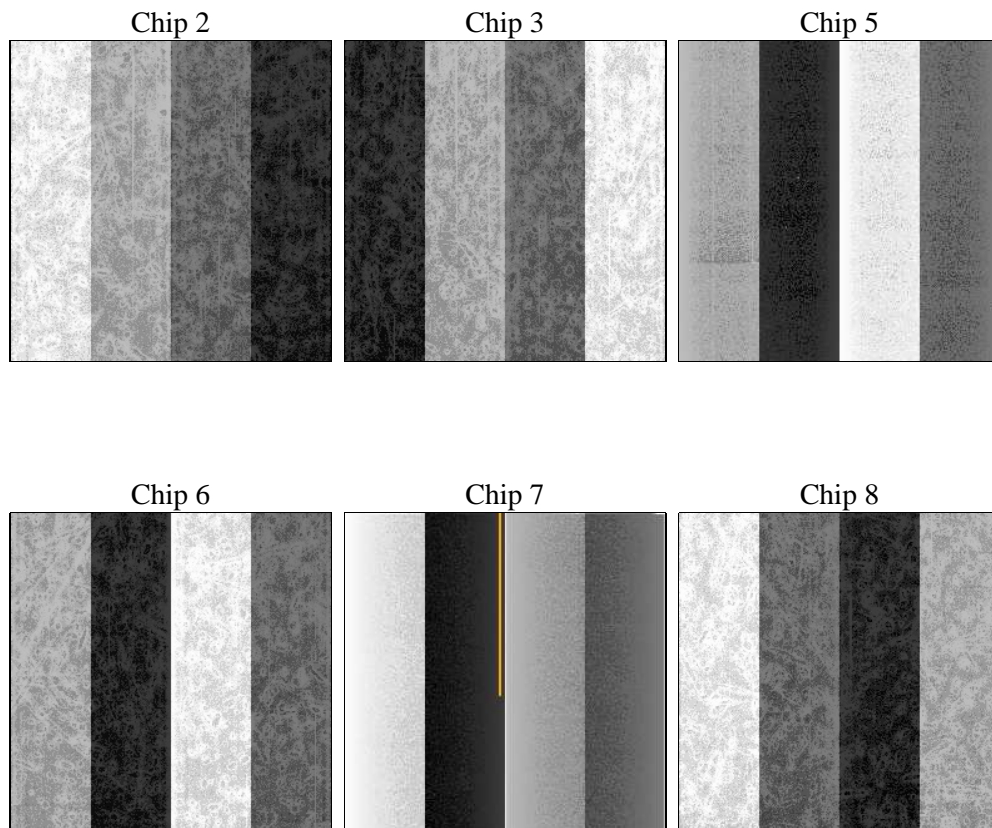
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1756.7155776918	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	1756.7566176951	Sum of GTIs [s]
date	2012-03-25T01:49:33	Date and time of file creation	ontime3	1756.5924775898	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	1756.6745575964	Sum of GTIs [s]
			ontime6	1756.6335175931	Sum of GTIs [s]
			ontime7	1756.7155776918	Sum of GTIs [s]
			ontime8	1753.3103578091	Sum of GTIs [s]
			l1events	112006	Number of level 1 events

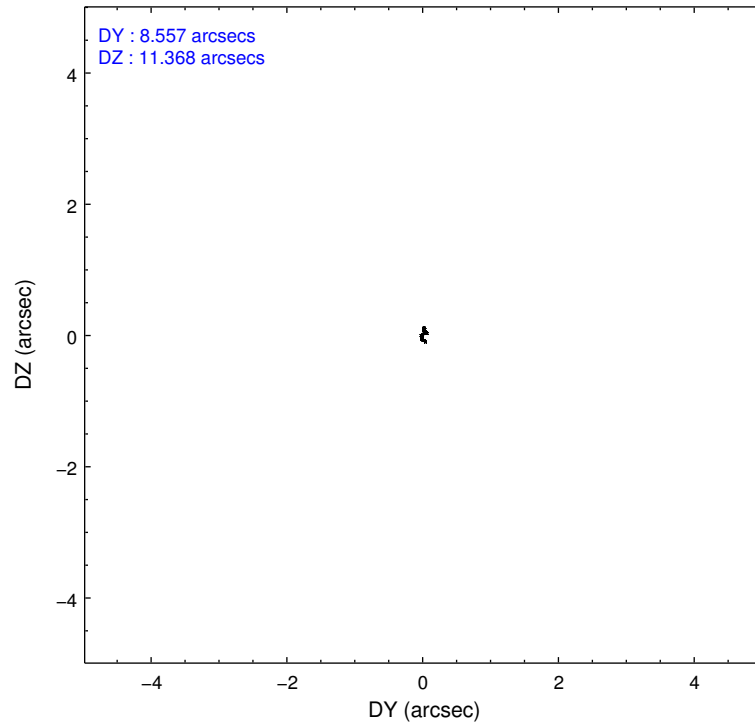
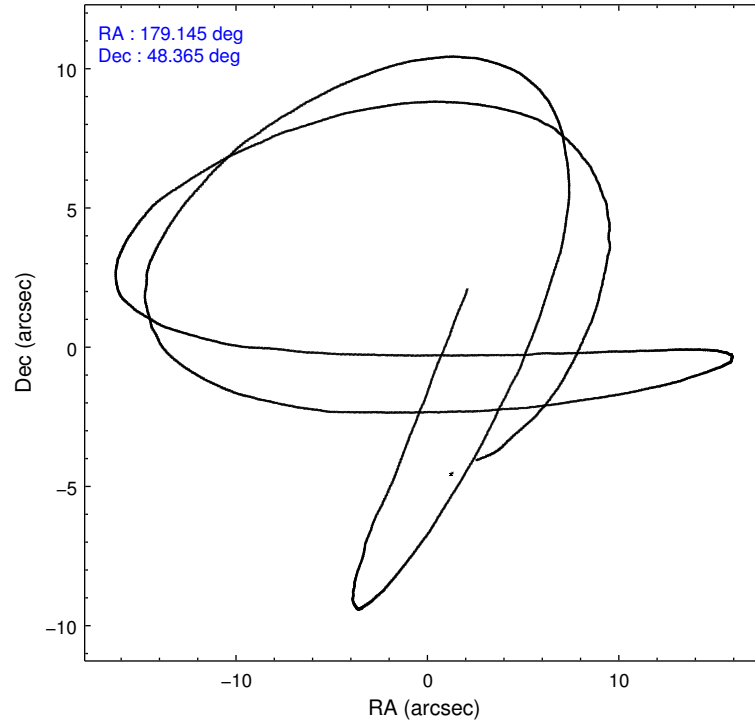
### 2.1.4 Events

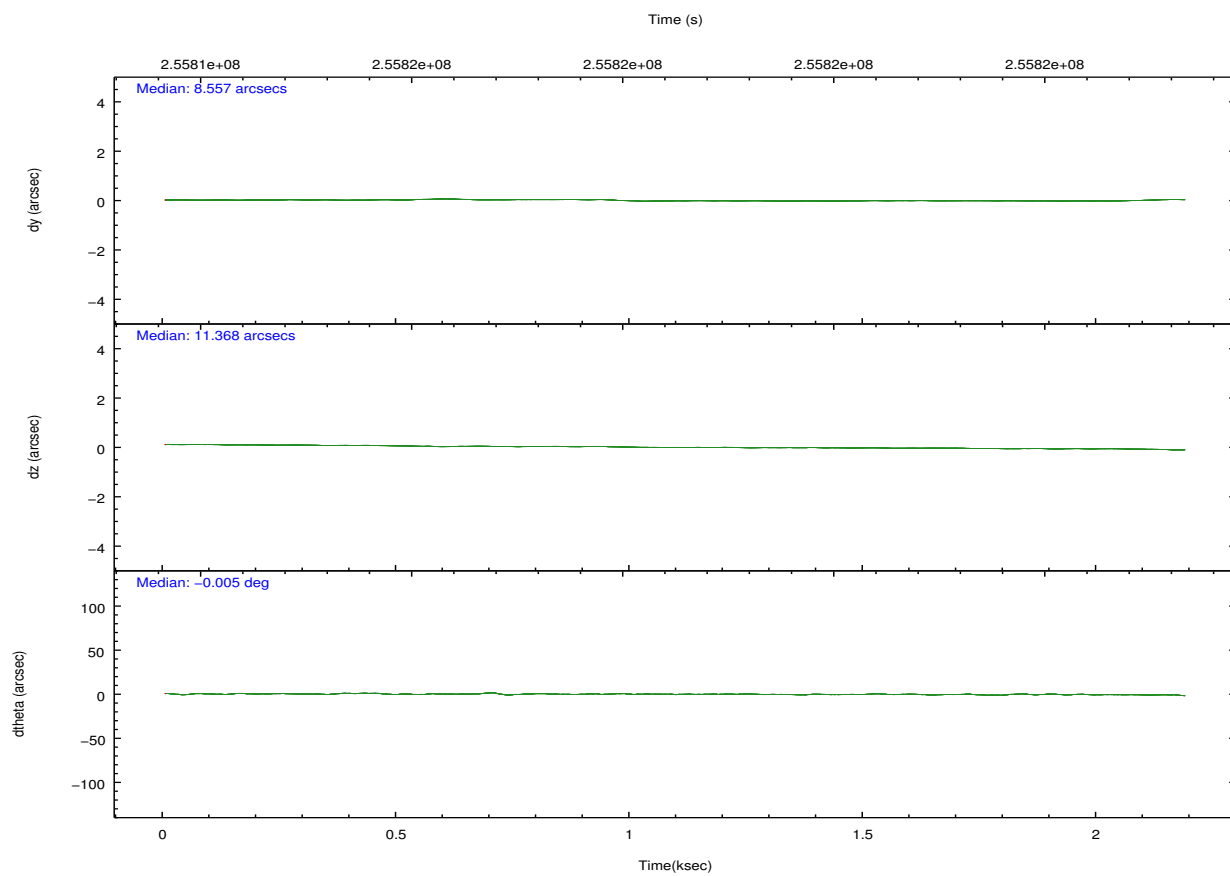
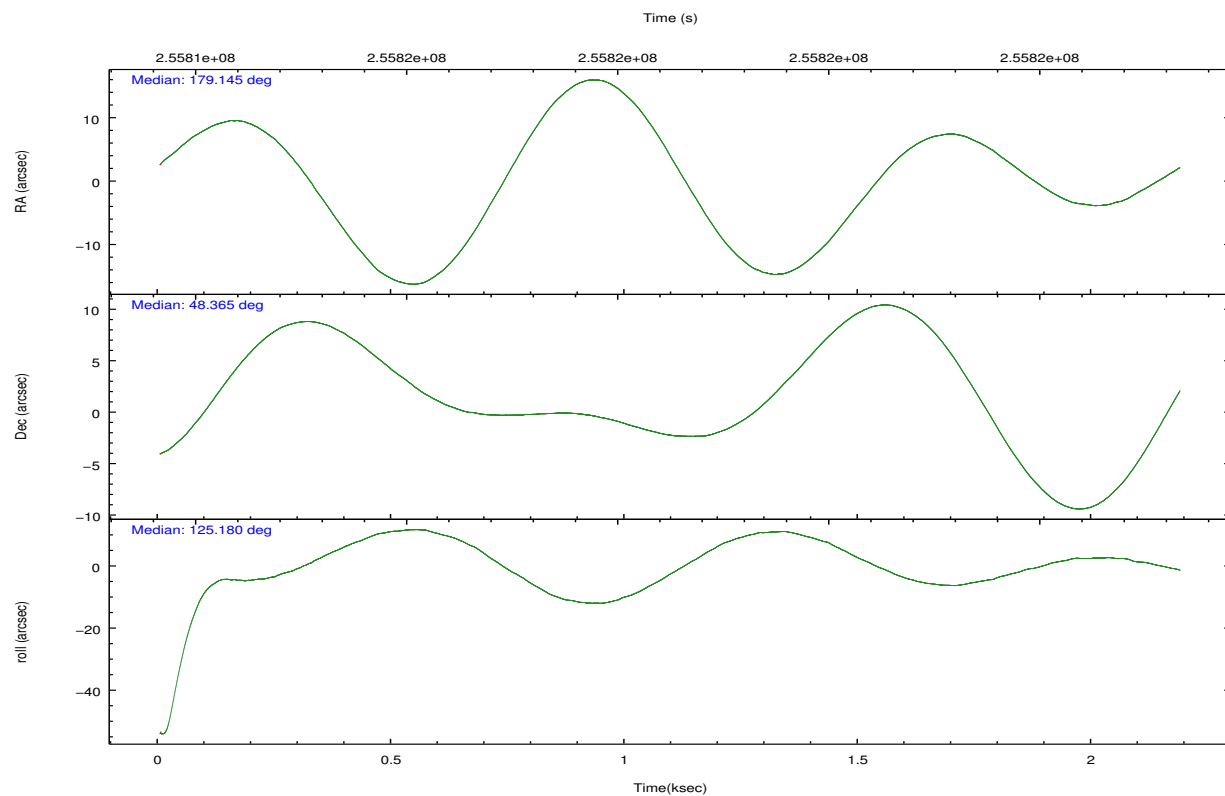
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	14860	14983	24080	15191	20436	22456	grade 0 events	759	725	1282	698	760	1202
rejected events	13128	13301	12960	13389	12043	18564		5%	4%	5%	4%	3%	5%
rejected %	88%	88%	53%	88%	58%	82%	grade 1 events	10	9	70	9	21	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	366	307	3495	385	1696	846
								2%	2%	14%	2%	8%	3%
							grade 3 events	150	182	393	179	709	480
								1%	1%	1%	1%	3%	2%
							grade 4 events	169	167	390	190	678	440
								1%	1%	1%	1%	3%	1%
							grade 5 events	543	611	1798	710	1902	874
								3%	4%	7%	4%	9%	3%
							grade 6 events	291	307	5602	356	4591	941
								1%	2%	23%	2%	22%	4%
							grade 7 events	12572	12675	11050	12664	10079	17650
								84%	84%	45%	83%	49%	78%

## 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	179.182647	179.1452283506772	Subarray requested	NONE	NONE
[deg] Pointing Dec	48.354335	48.36533601685037	Alternating exposures requested	N	N
[deg] Pointing Roll	124.992828	125.1770877649722	[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)	255814719.184000	255814095.58391			
Observation start date	2006-02-08T19:37:34	2006-02-08T19:28:15			
[s] Observation end time (MET)	255816719.184000	255817275.13406			
Observation end date	2006-02-08T20:10:54	2006-02-08T20:21:15			
Read mode	TIMED	TIMED			

## 2.3 Aspect





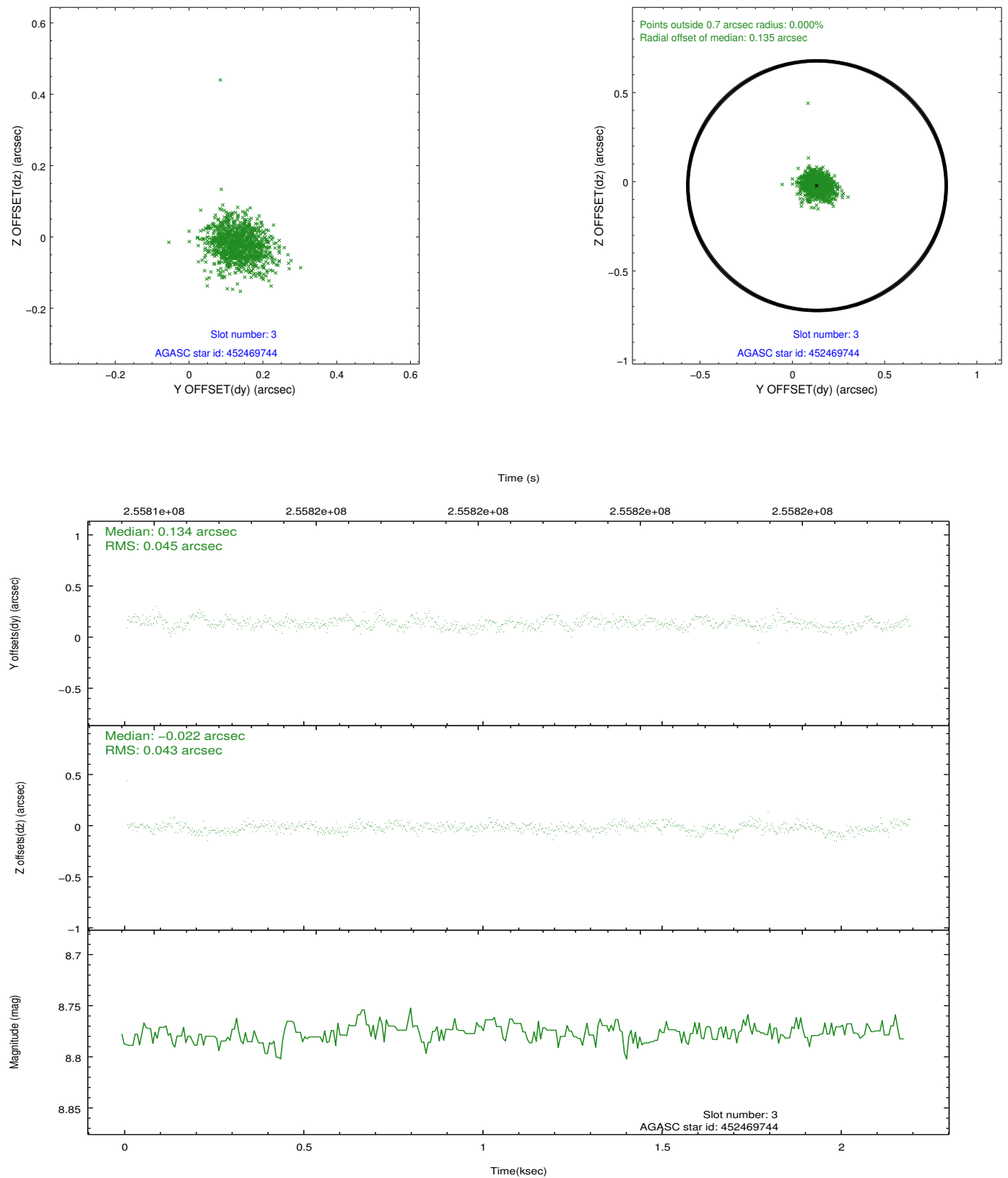
### Slot Statistics

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	534	-0.028	-0.018	0.008	0.013	0.000000	0.000000	-761.37	-1732.64
1	FID	ACIS-S-4	7.21	534	0.123	0.019	0.007	0.013	0.000000	0.000000	2150.68	172.83
2	FID	ACIS-S-5	7.23	533	-0.126	0.008	0.007	0.011	0.000000	0.000000	-1810.50	169.84
3	GUIDE	452469744	8.78	1067	0.134	-0.022	0.064	0.106	179.257178	47.796250	-1749.77	1004.48
4	GUIDE	452469808	8.13	1066	0.027	-0.073	0.059	0.093	179.371715	47.788624	-1931.50	793.76
5	GUIDE	452472184	8.29	1067	0.037	0.116	0.059	0.093	179.500347	48.203455	-882.14	-311.51
6	GUIDE	452469552	7.15	1067	-0.025	-0.028	0.068	0.111	179.632673	47.765405	-2358.86	322.16
7	GUIDE	452728128	7.29	1066	-0.177	0.011	0.056	0.091	178.666422	48.933126	2408.43	-196.05

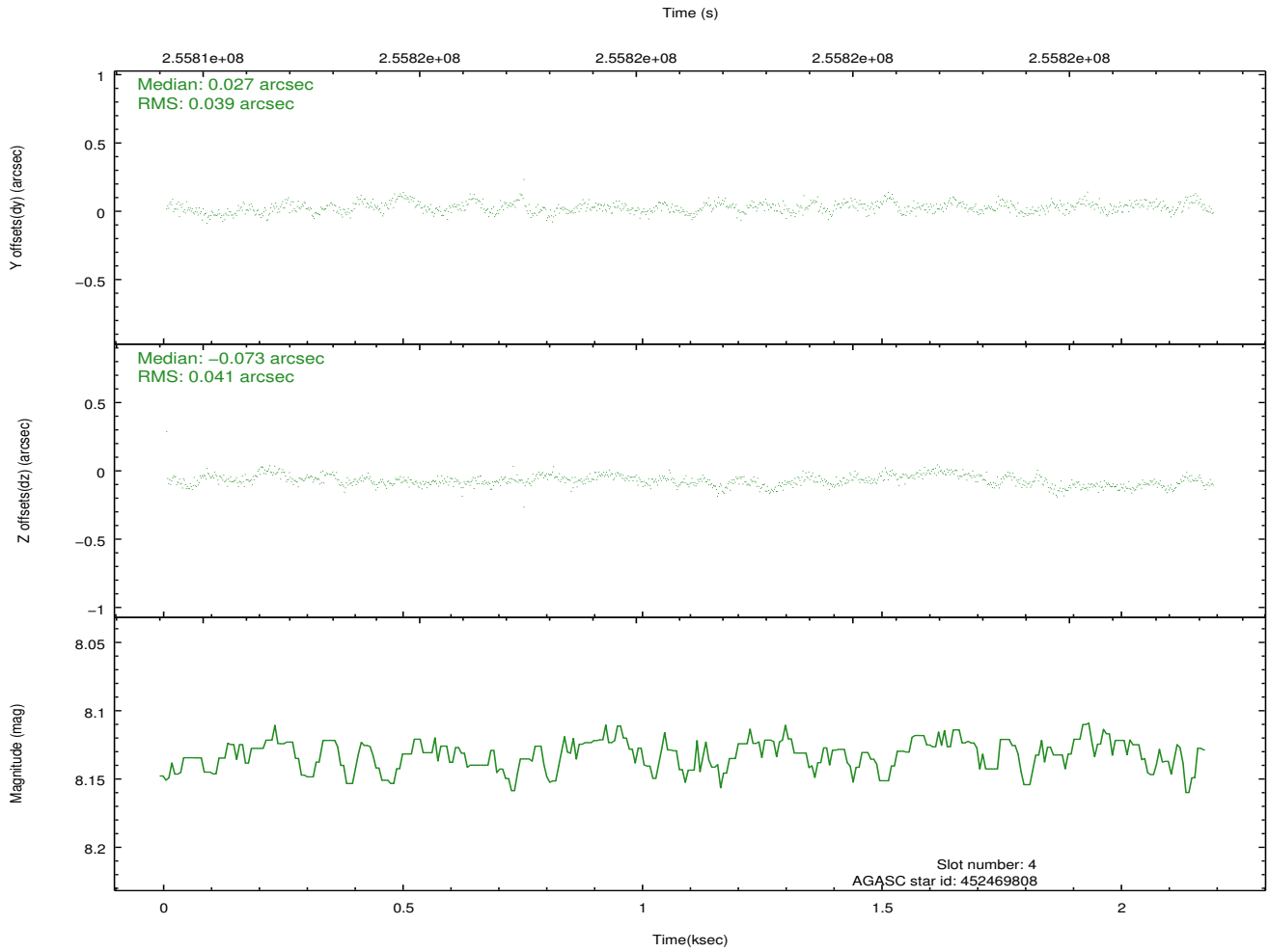
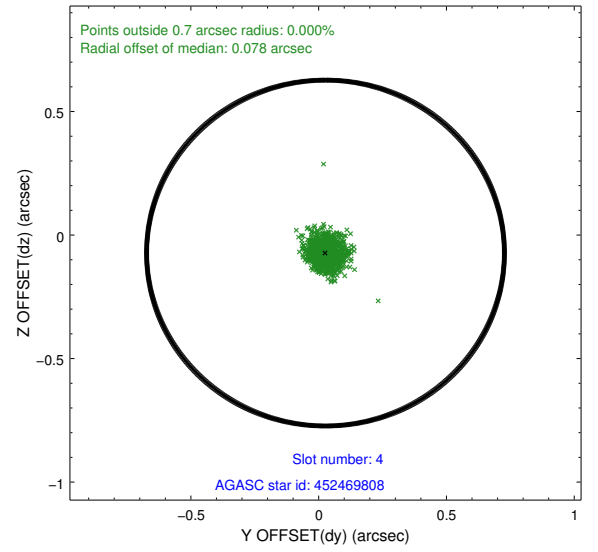
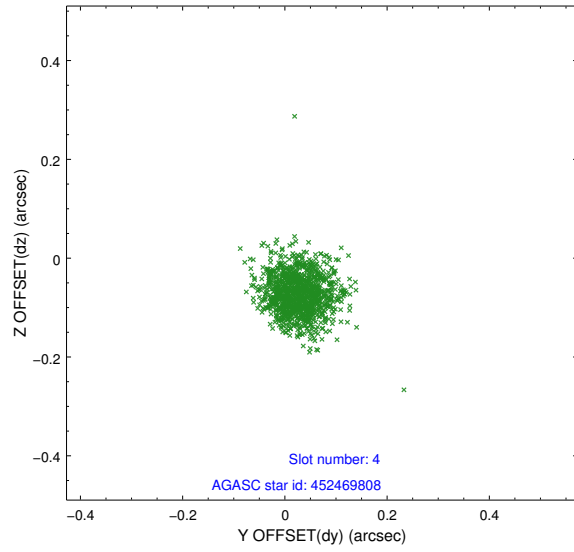


## 2.4 Star Slots

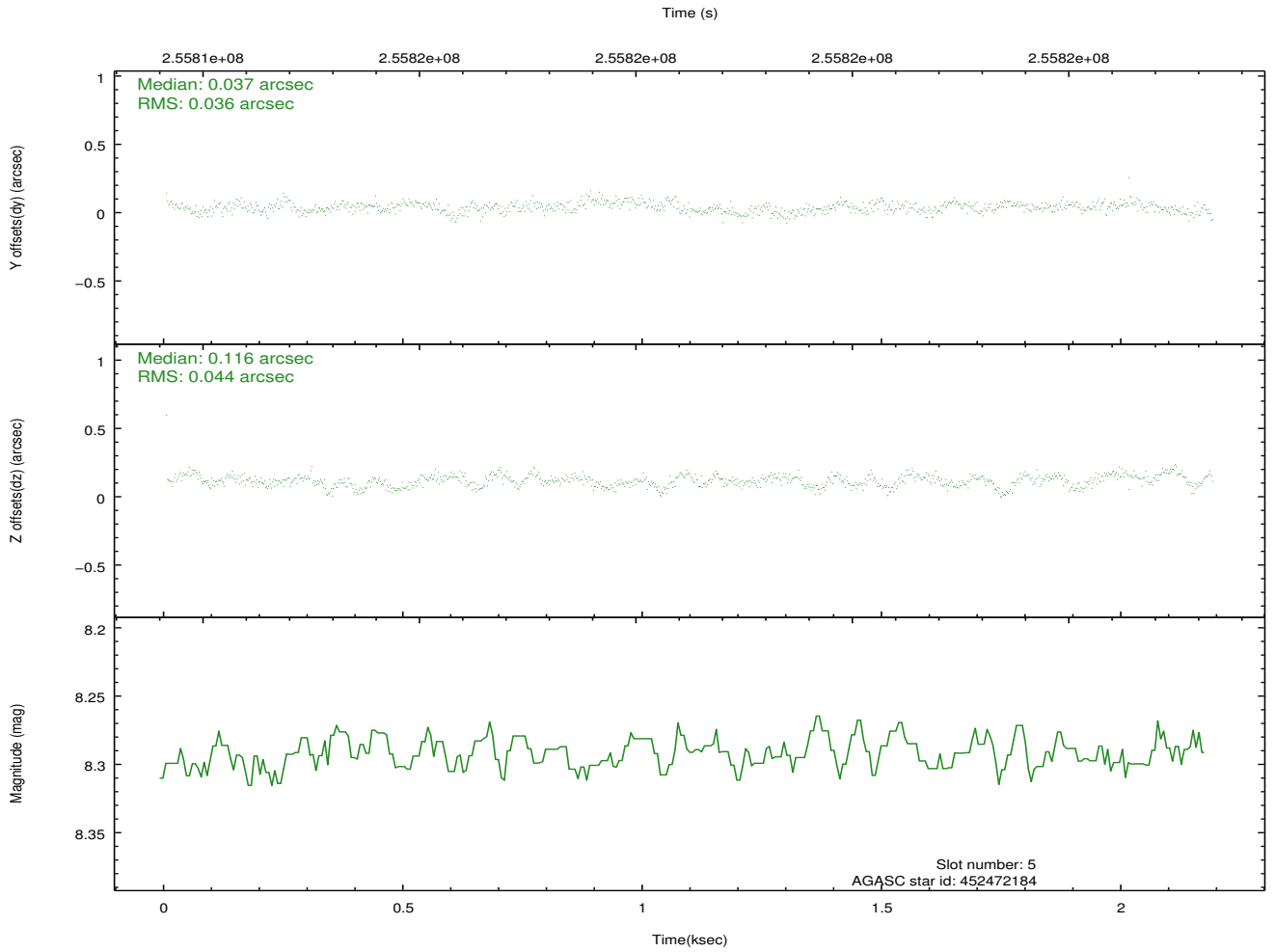
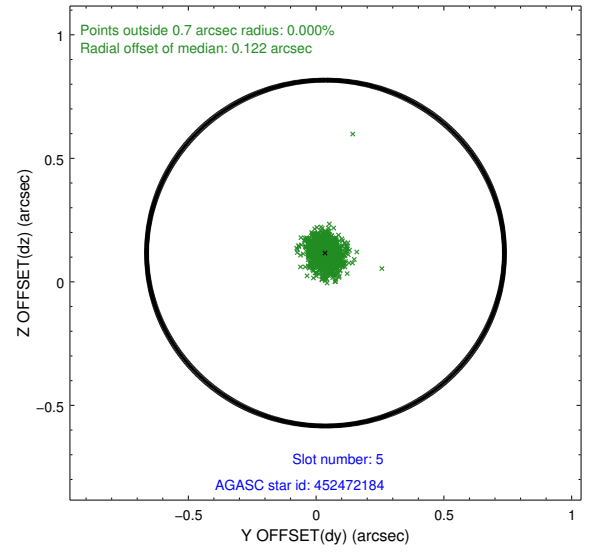
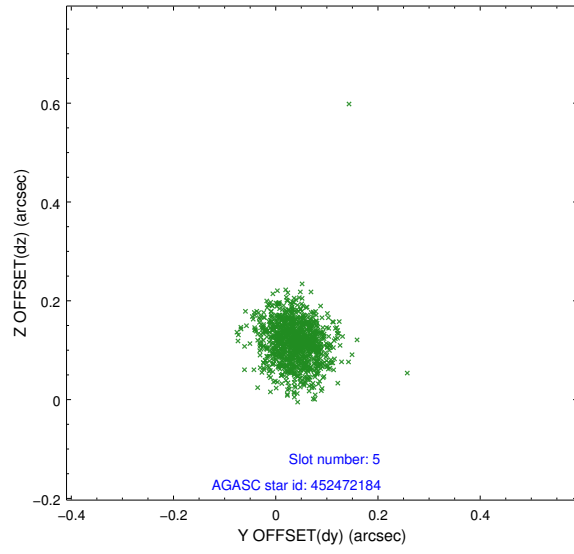
### 2.4.1 Slot 3



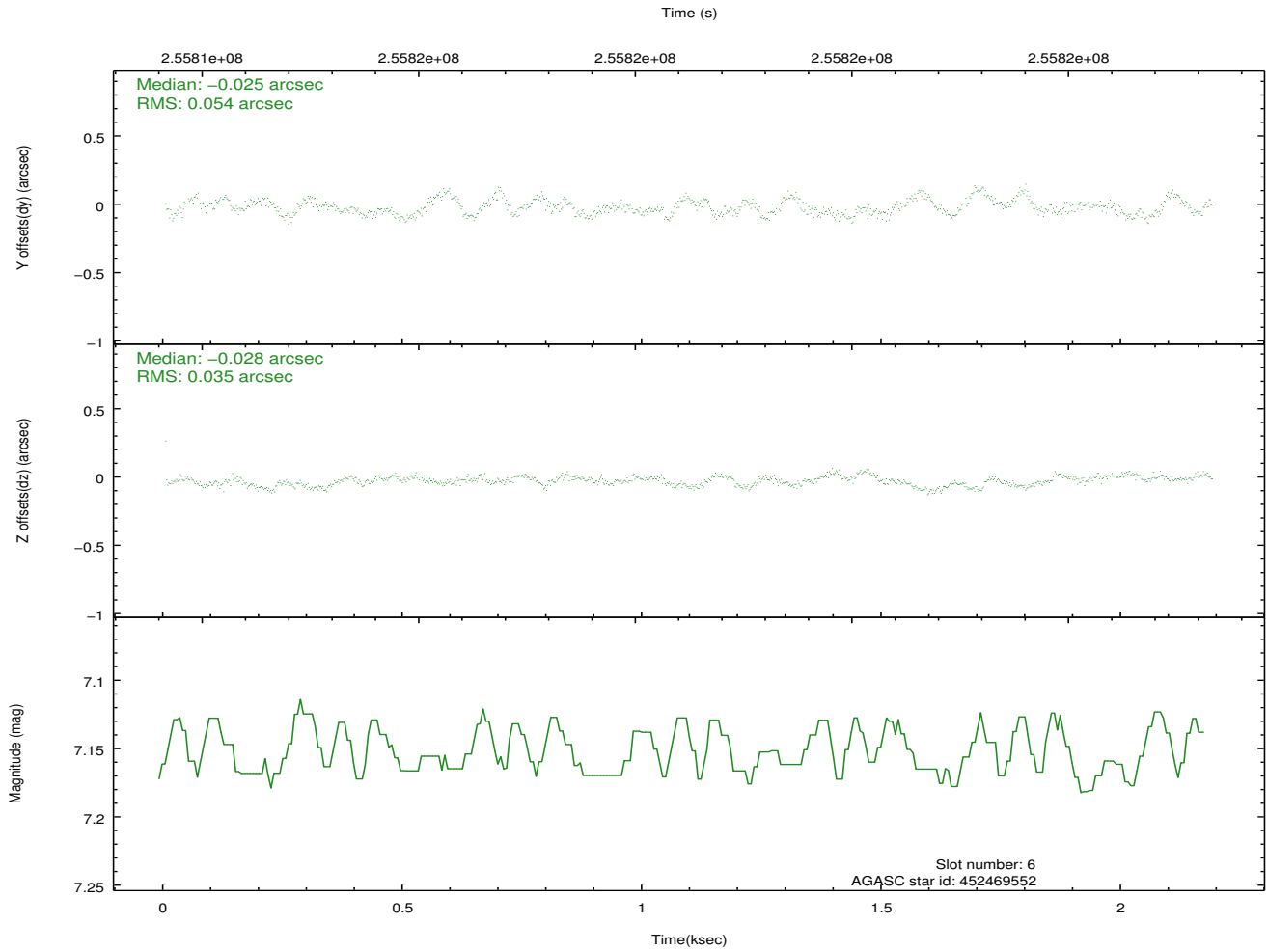
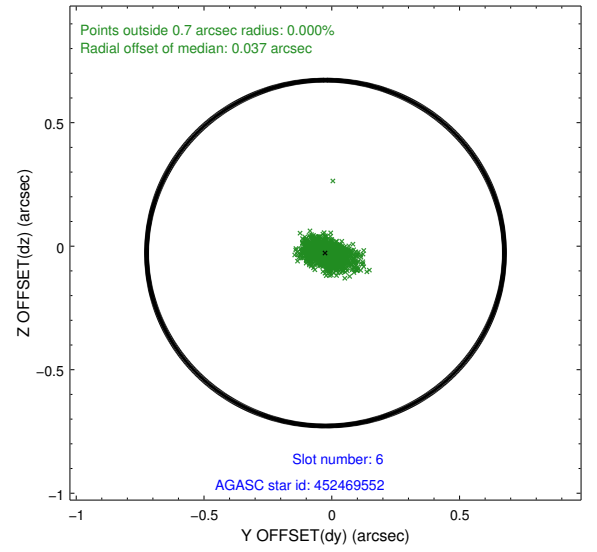
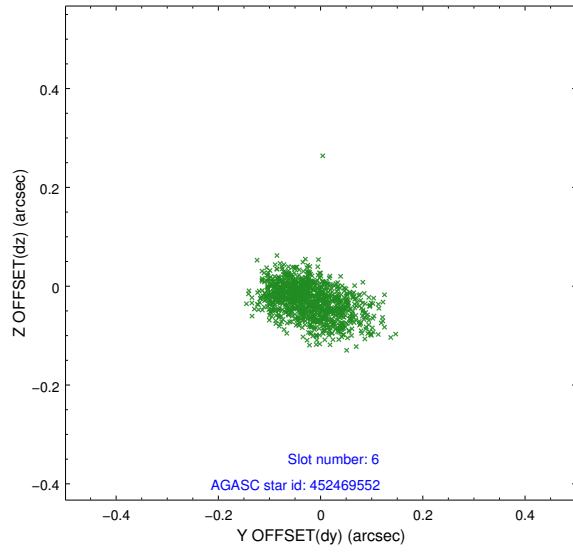
## 2.4.2 Slot 4



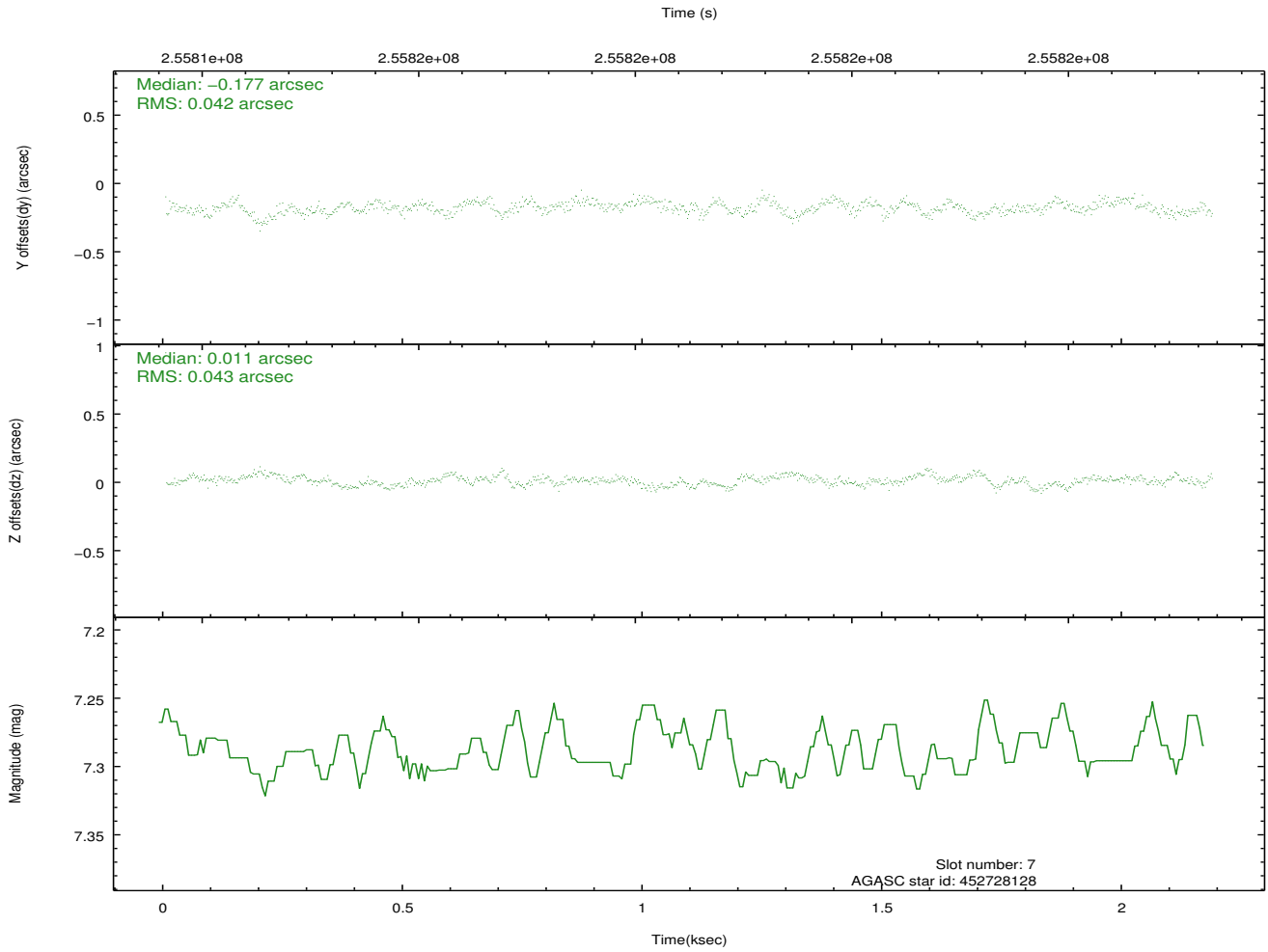
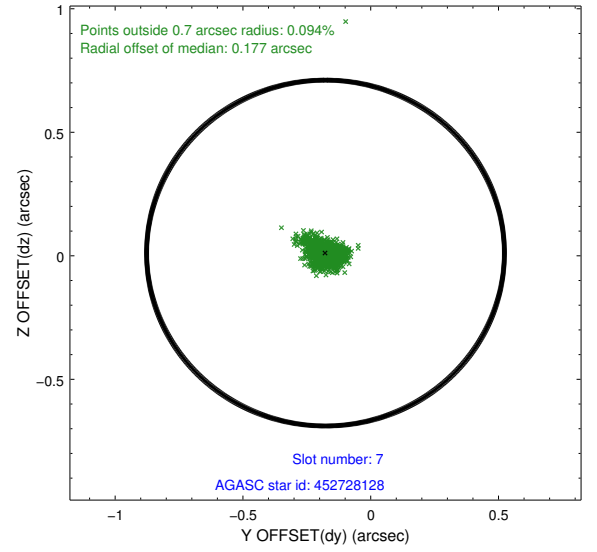
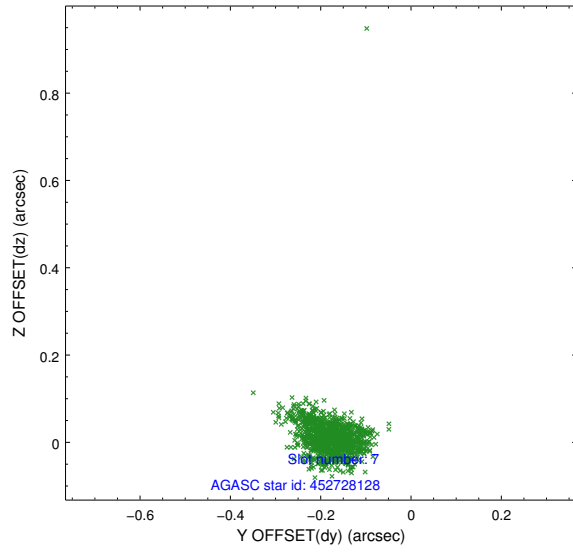
### 2.4.3 Slot 5



## 2.4.4 Slot 6

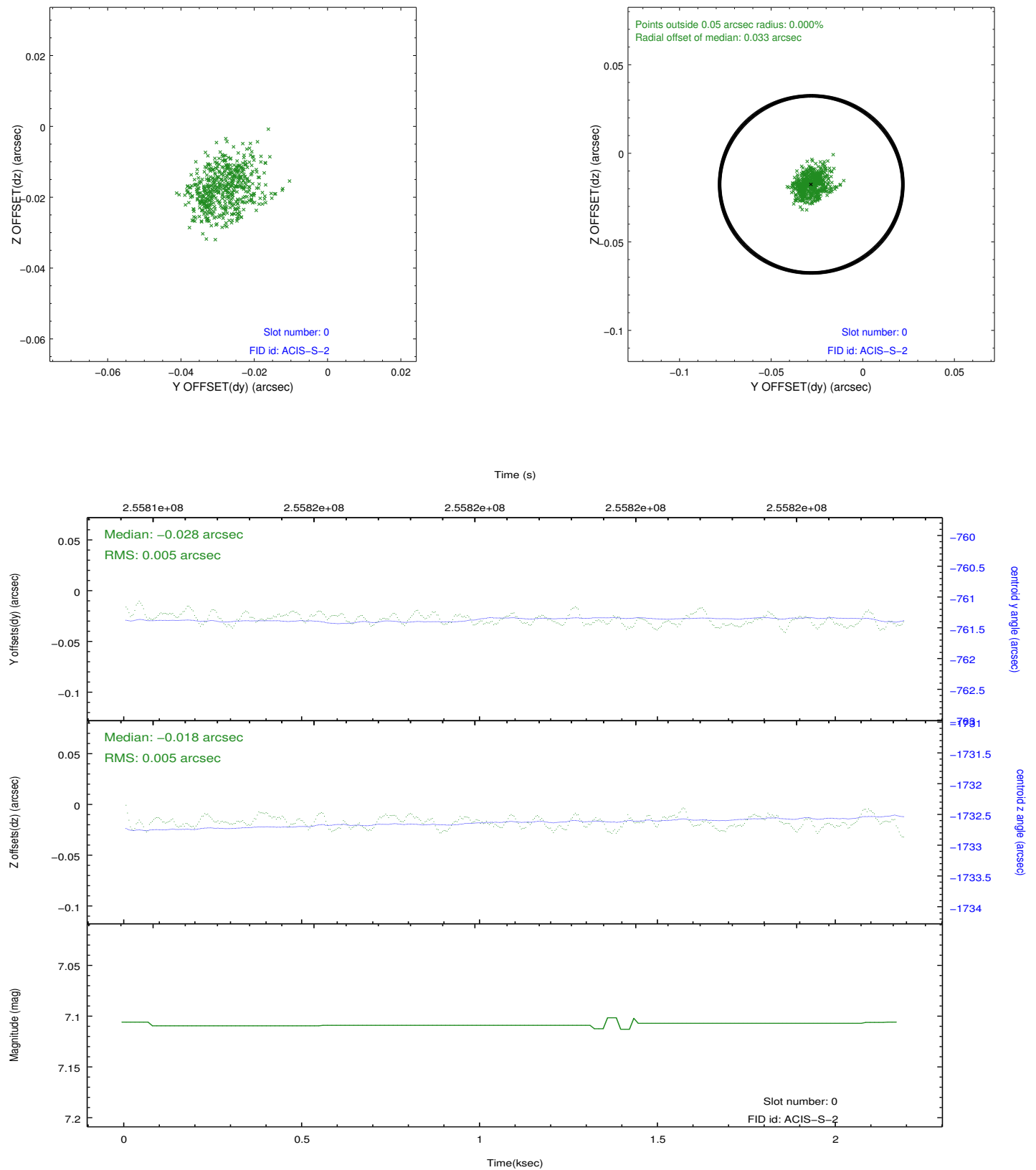


## 2.4.5 Slot 7

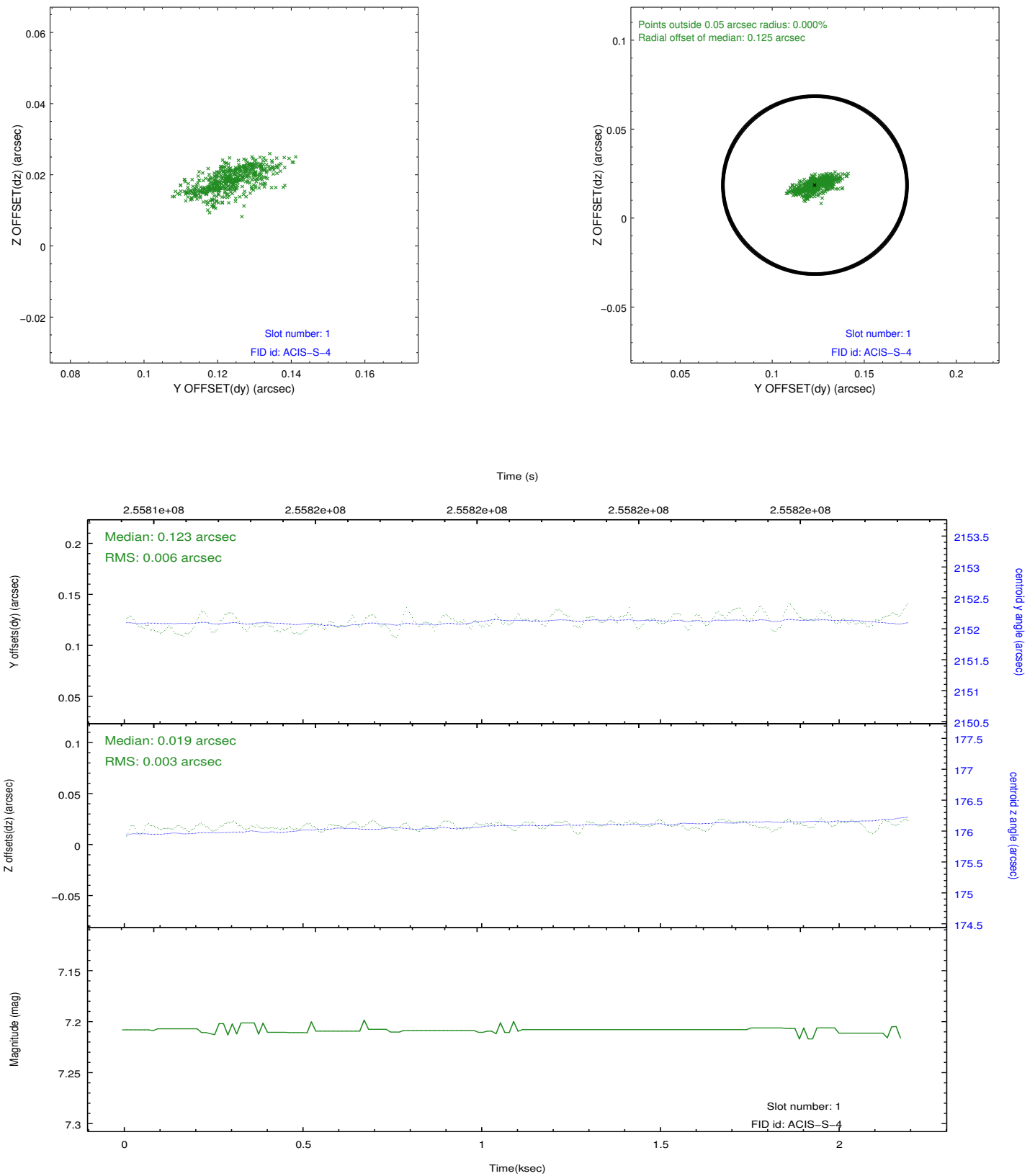


## 2.5 FID Slots

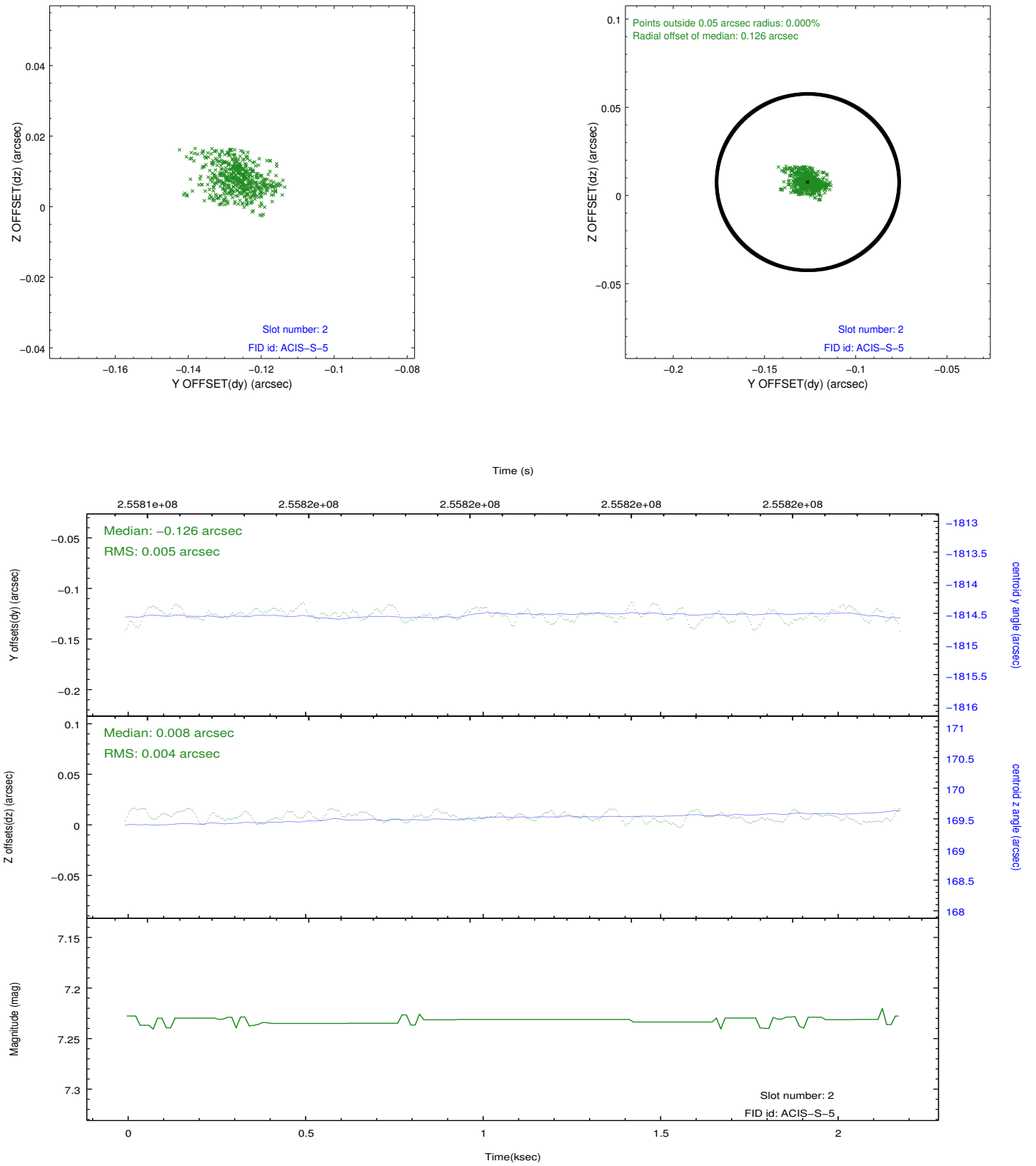
### 2.5.1 Slot 0



## 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)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.75679999

### A.2 Comments