

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10837 - L2 Version 2  
Chandra X-Ray Center

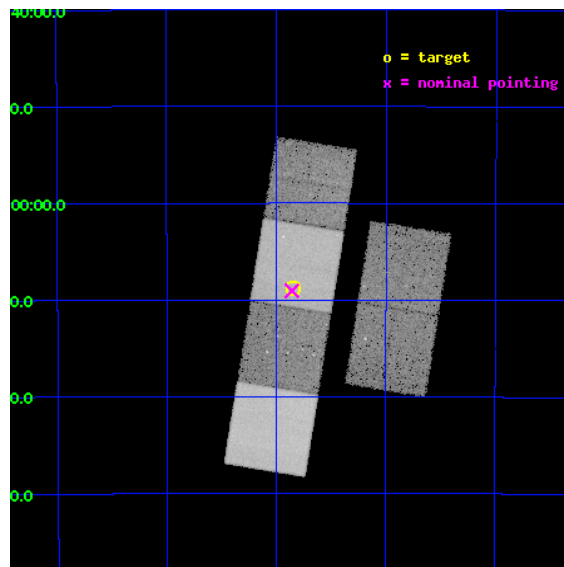
L2 Processing Date : May 26 2012

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# 1 Front

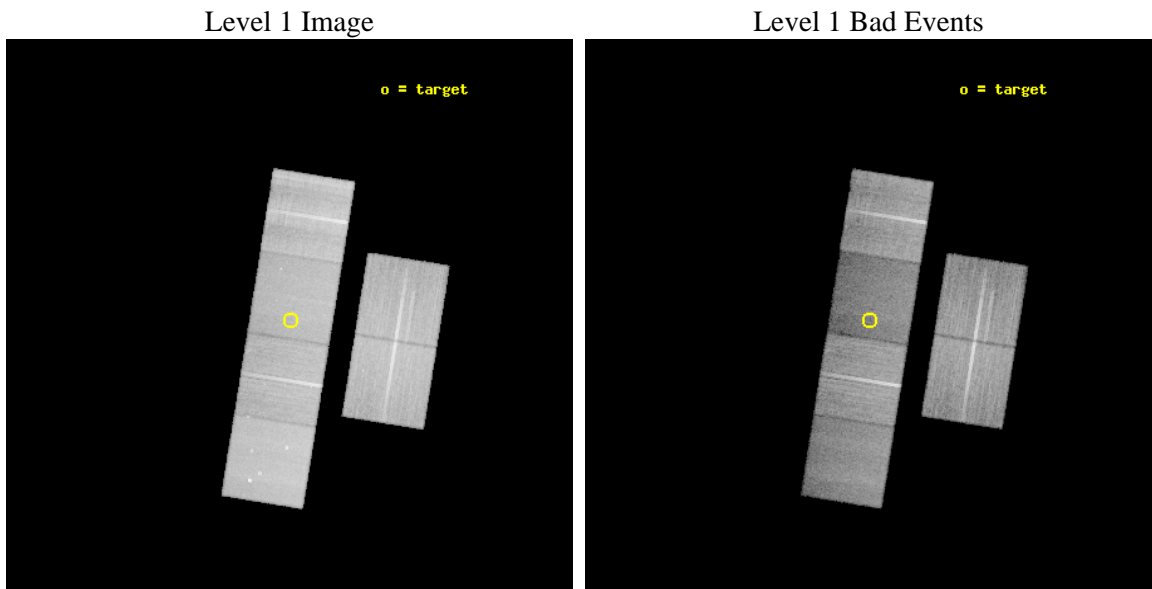
seq_num	500705	Sequence number
obs_id	10837	Observation id
title	A Search for Jet Breaks in Long GRB afterglows	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 081007	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.960417	Observer's specified target RA [deg]
dec_targ	-40.147306	Observer's specified target Dec [deg]
ra_nom	339.96458107222	Nominal RA [deg]
dec_nom	-40.150983847165	Nominal Dec [deg]
roll_nom	279.15932212848	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27987.199895799	Sum of GTIs [s]
livetime	27632.80911885	Livetime [s]
ontime2	27987.199895799	Sum of GTIs [s]
ontime3	27983.958925426	Sum of GTIs [s]
ontime5	27987.199895799	Sum of GTIs [s]
ontime6	27987.199895799	Sum of GTIs [s]
ontime7	27987.199895799	Sum of GTIs [s]
ontime8	27980.717955172	Sum of GTIs [s]
l2events	315066	Number of level 2 events



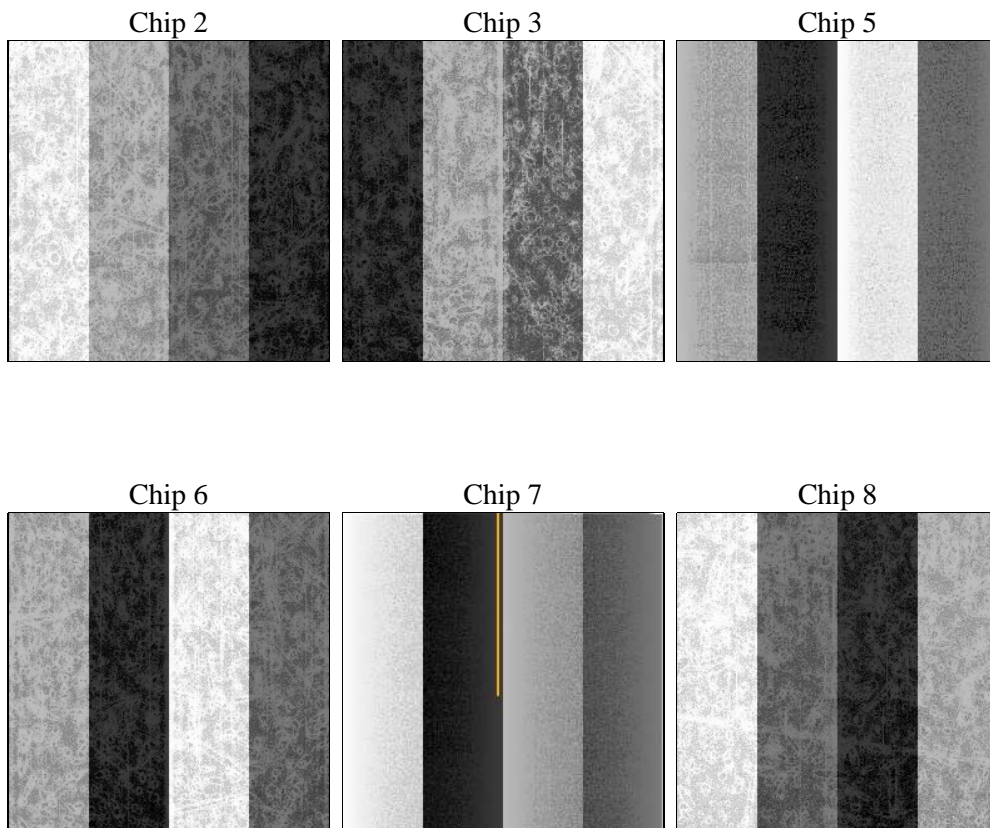
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	27987.199895799	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	27987.199895799	Sum of GTIs [s]
date	2012-05-26T05:48:01	Date and time of file creation	ontime3	27983.958925426	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	27987.199895799	Sum of GTIs [s]
			ontime6	27987.199895799	Sum of GTIs [s]
			ontime7	27987.199895799	Sum of GTIs [s]
			ontime8	27980.717955172	Sum of GTIs [s]
			l1events	1425798	Number of level 1 events

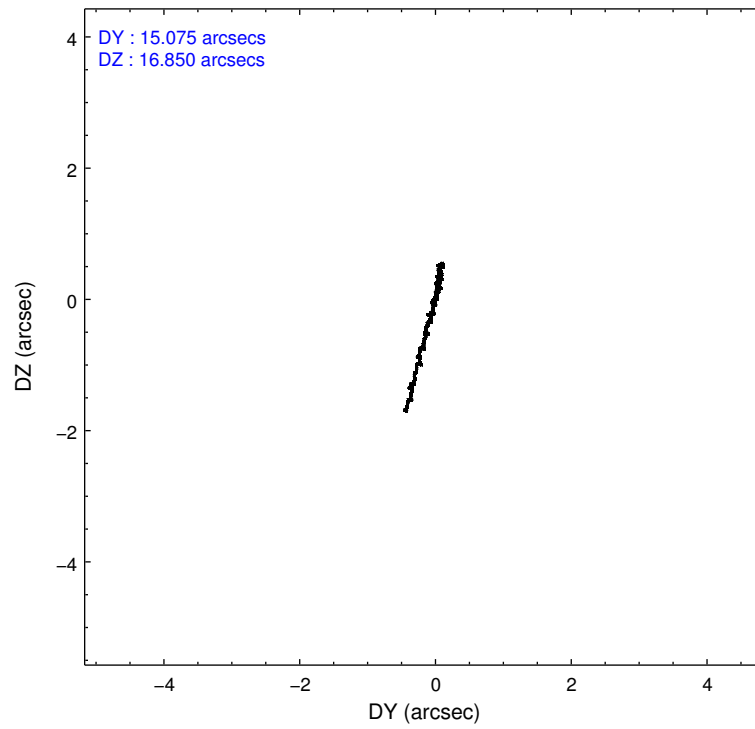
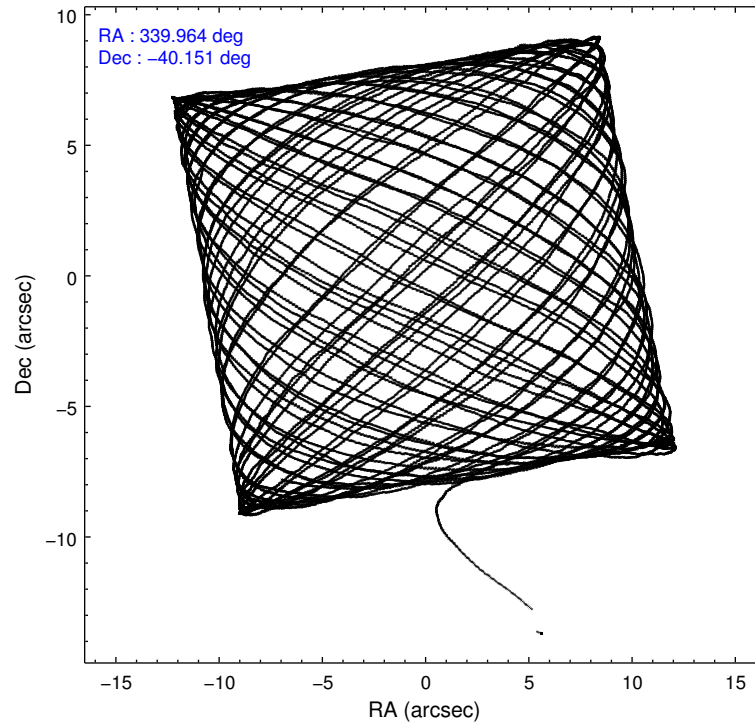
### 2.1.4 Events

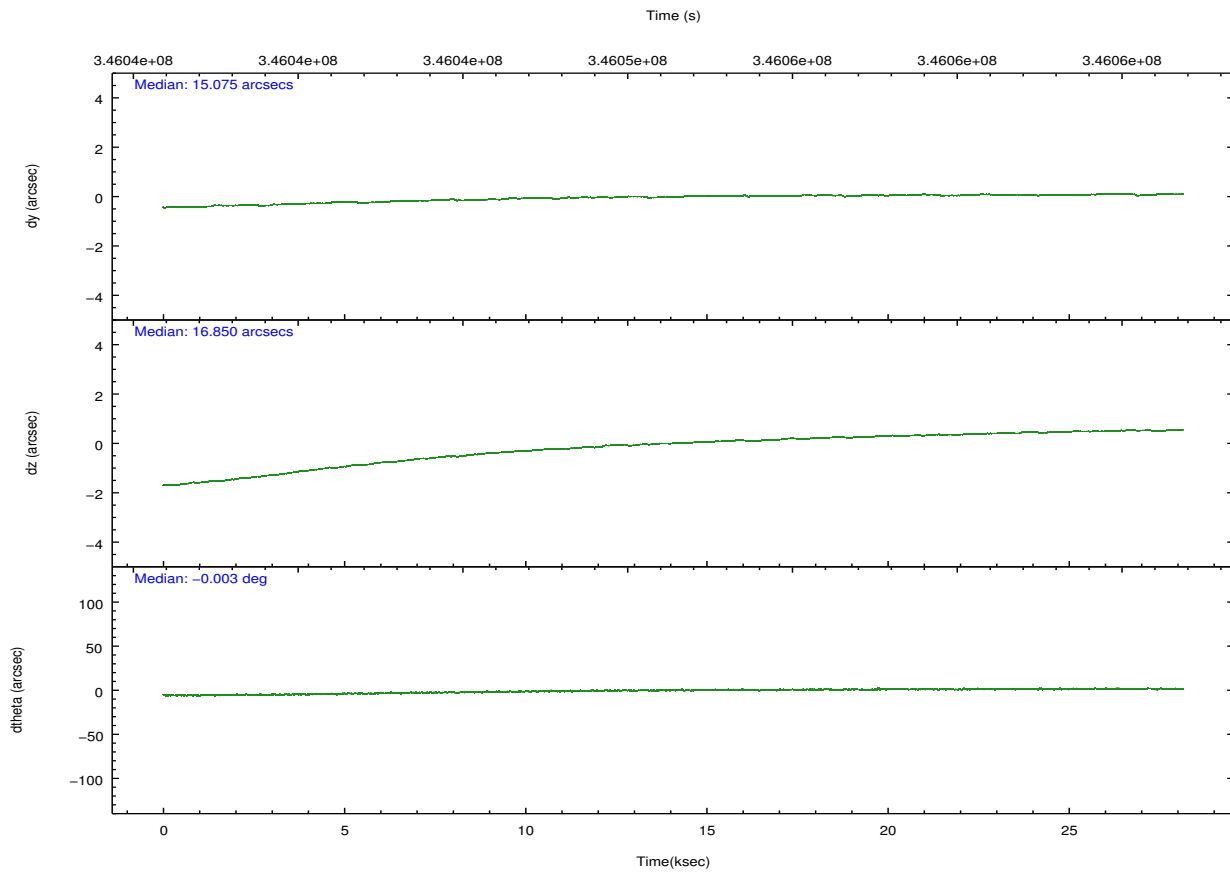
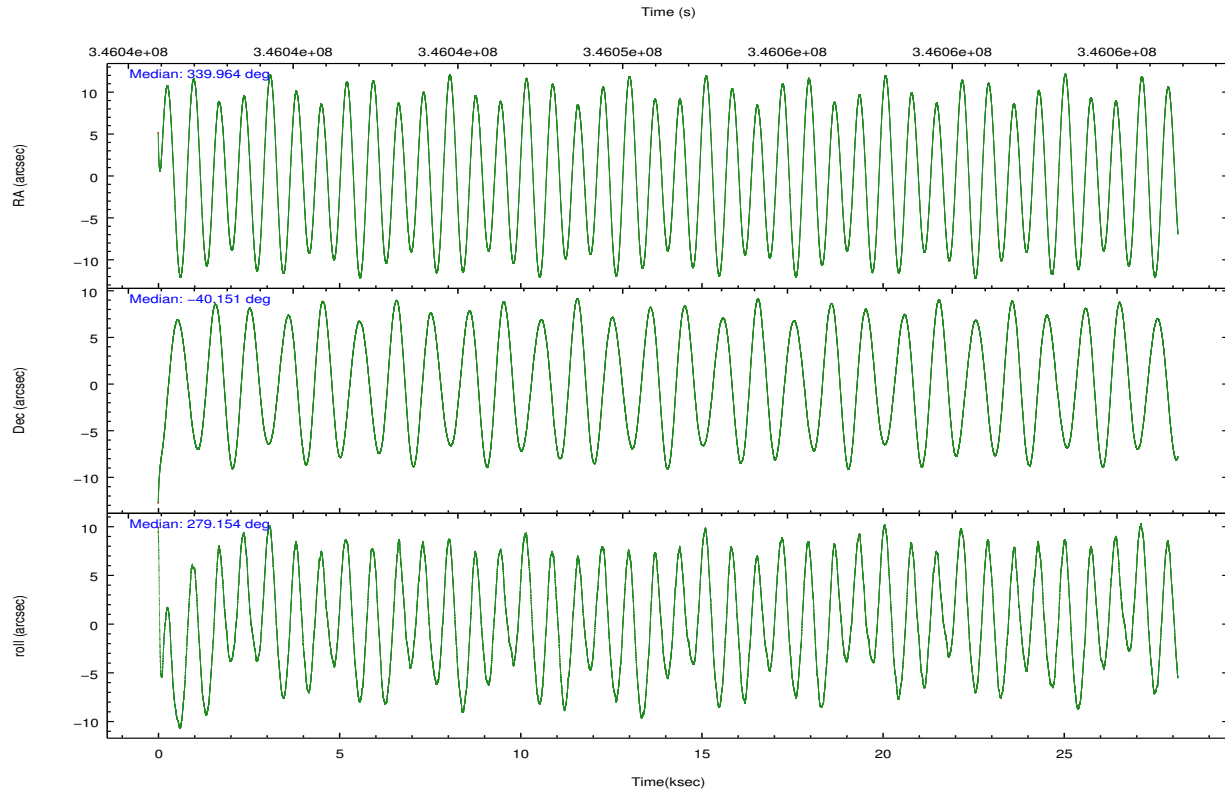
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	234466	211061	276778	219517	211067	272909	grade 0 events	7974	7350	14530	8482	10791	19065
rejected events	212986	191015	131324	196641	106566	202567		3%	3%	5%	3%	5%	6%
rejected %	90%	90%	47%	89%	50%	74%	grade 1 events	120	132	649	124	322	209
								0%	0%	0%	0%	0%	0%
							grade 2 events	5314	4430	44666	4979	22339	16825
								2%	2%	16%	2%	10%	6%
							grade 3 events	2172	2248	6416	2407	9751	7833
								0%	1%	2%	1%	4%	2%
							grade 4 events	2215	2257	6184	2397	9781	7202
								0%	1%	2%	1%	4%	2%
							grade 5 events	6355	7417	21936	7537	22675	11579
								2%	3%	7%	3%	10%	4%
							grade 6 events	3808	3763	73672	4615	51850	19420
								1%	1%	26%	2%	24%	7%
							grade 7 events	206508	183464	108725	188976	83558	190776
								88%	86%	39%	86%	39%	69%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	339.941610	339.9645810722176	CCD I2 on	O2	Y
[deg] Pointing Dec	-40.130002	-40.15098384716517	CCD I3 on	O3	Y
[deg] Pointing Roll	278.987879	279.1593221284801	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	346037449.184000	346036353.96736	CCD S5 on	N	N
Observation start date	2008-12-19T01:29:44	2008-12-19T01:12:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	346065449.184000	346066362.38135	On-chip summing requested	N	N
Observation end date	2008-12-19T09:16:24	2008-12-19T09:32:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



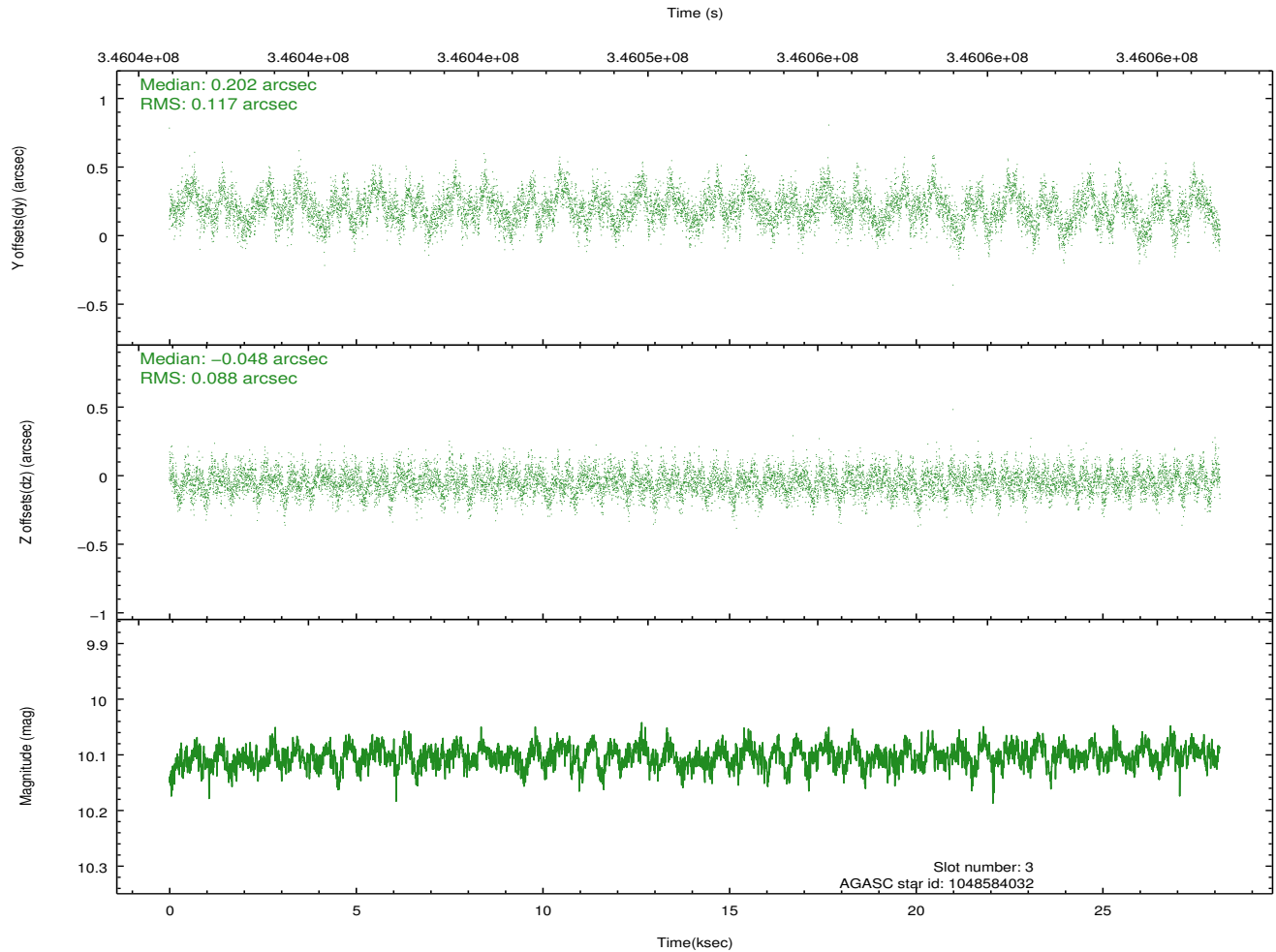
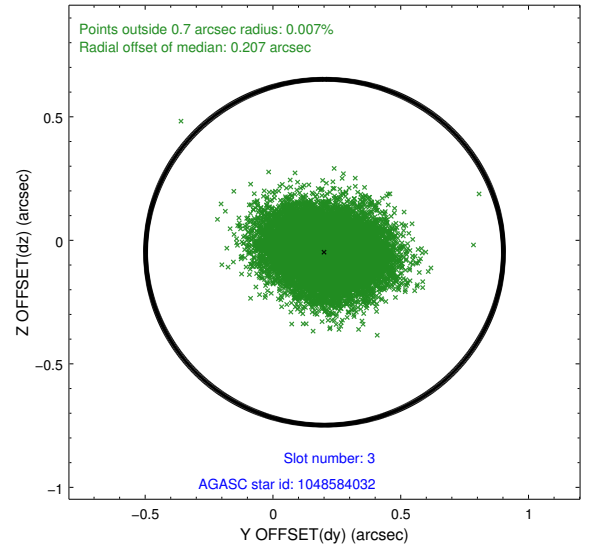
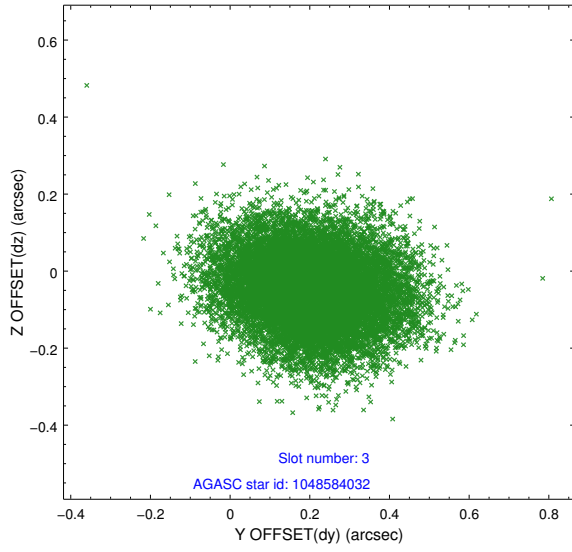


### Slot Statistics

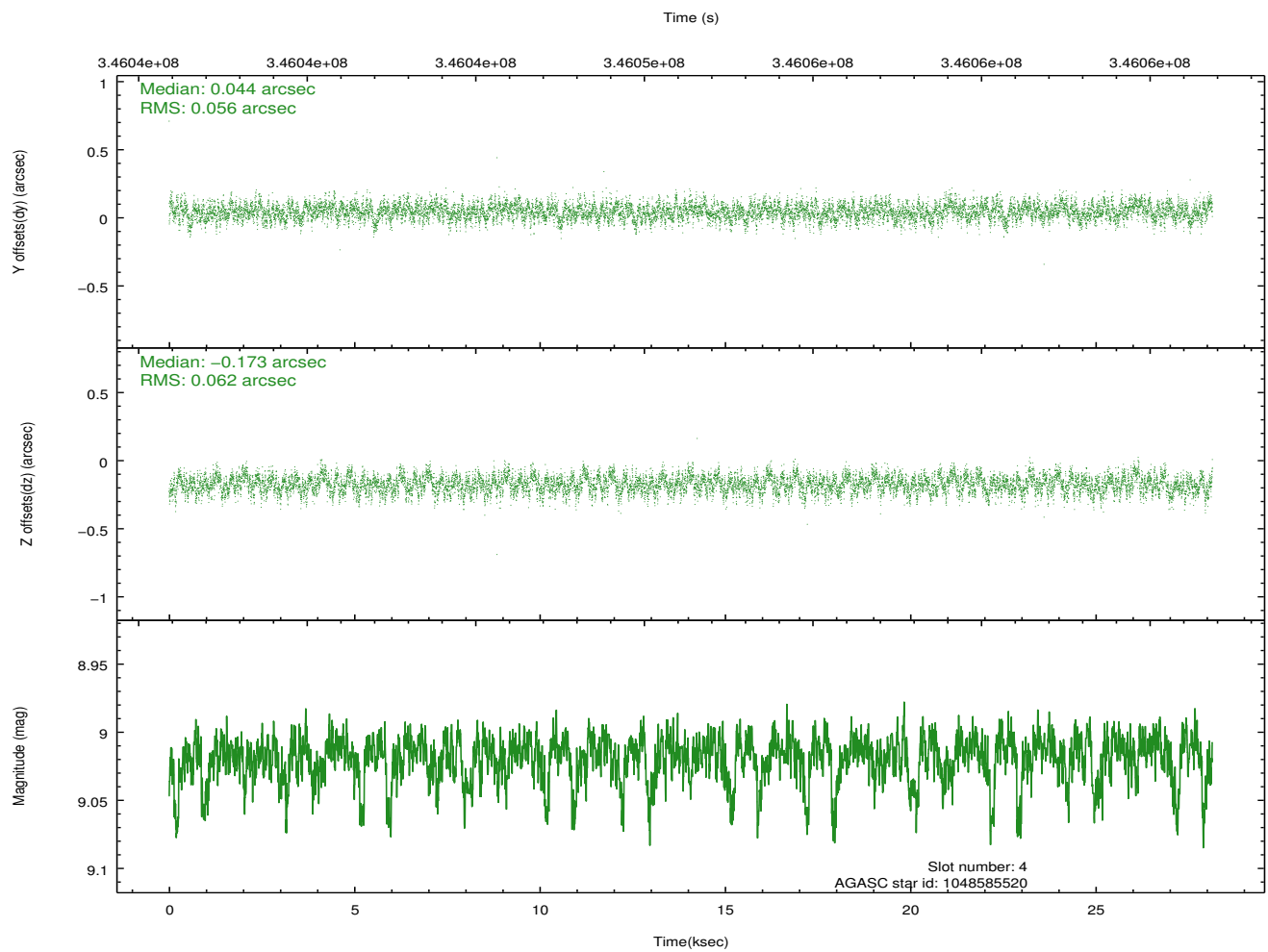
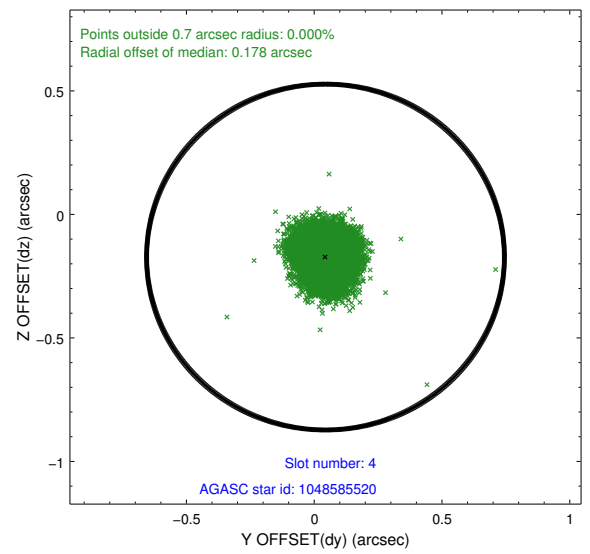
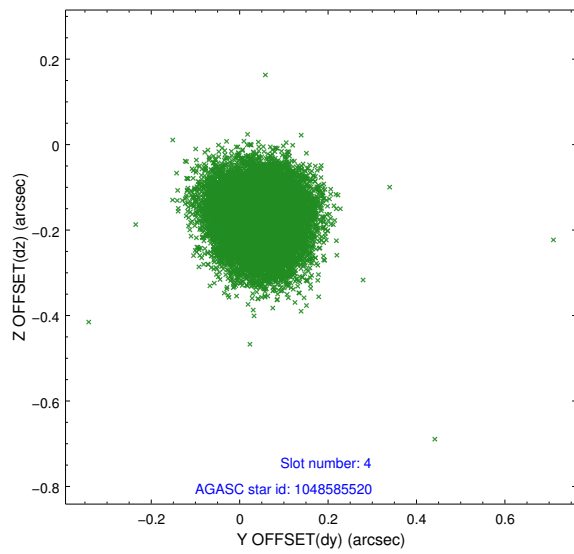
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	6866	-0.070	-0.023	0.016	0.025	0.000000	0.000000	-768.07	-1738.08
1	FID	ACIS-S-4	6.96	6866	0.177	0.040	0.011	0.021	0.000000	0.000000	2145.44	170.33
2	FID	ACIS-S-5	6.99	6866	-0.138	-0.008	0.014	0.023	0.000000	0.000000	-1820.84	164.11
3	GUIDE	1048584032	10.10	13696	0.202	-0.048	0.156	0.255	339.841284	-40.602435	1637.73	-536.06
4	GUIDE	1048585520	9.02	13724	0.044	-0.173	0.089	0.140	339.283653	-40.510732	1079.91	-1993.32
5	GUIDE	1049104000	9.00	13727	-0.082	0.061	0.084	0.138	340.439468	-39.461649	-2155.85	1742.44
6	GUIDE	1049495080	9.82	13706	-0.035	0.012	0.140	0.236	340.266613	-40.174599	300.25	858.19
7	GUIDE	1049103832	10.16	13708	-0.132	0.147	0.172	0.282	340.657881	-39.463186	-2052.39	2340.47

## 2.4 Star Slots

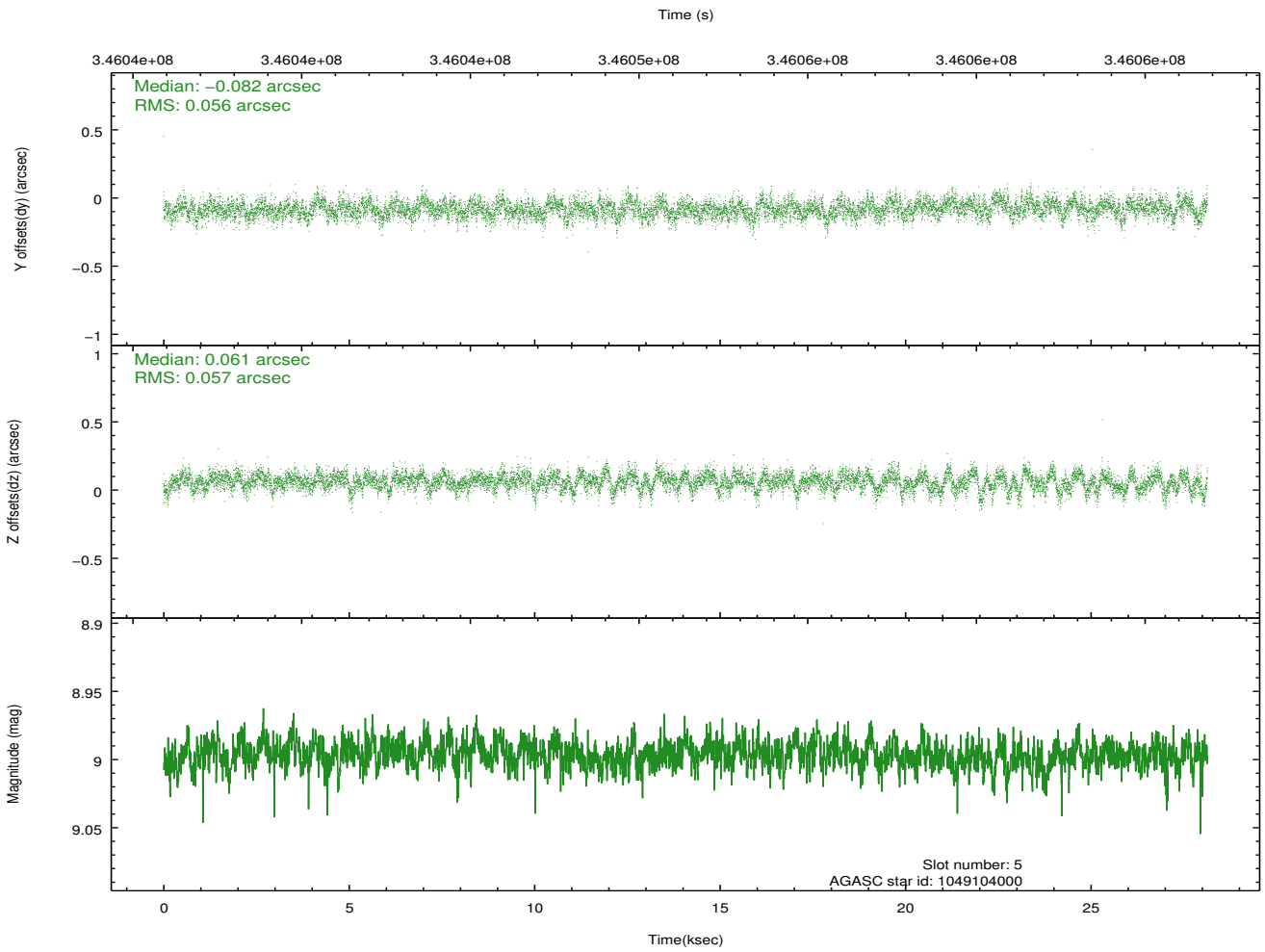
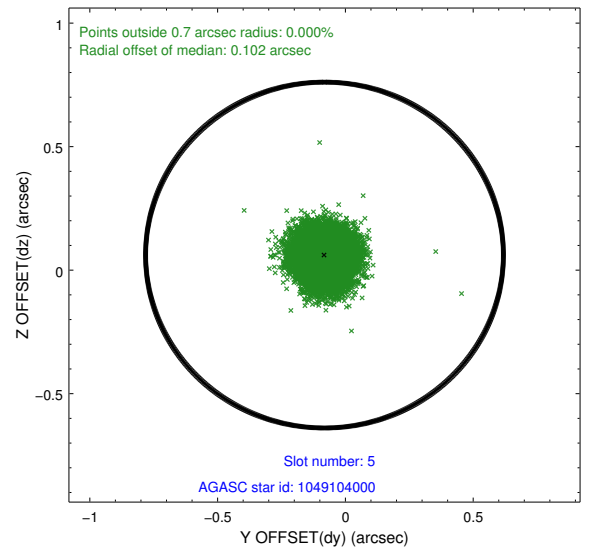
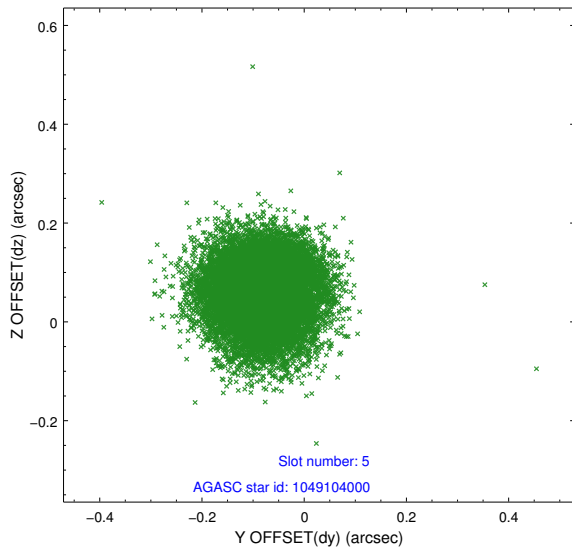
### 2.4.1 Slot 3



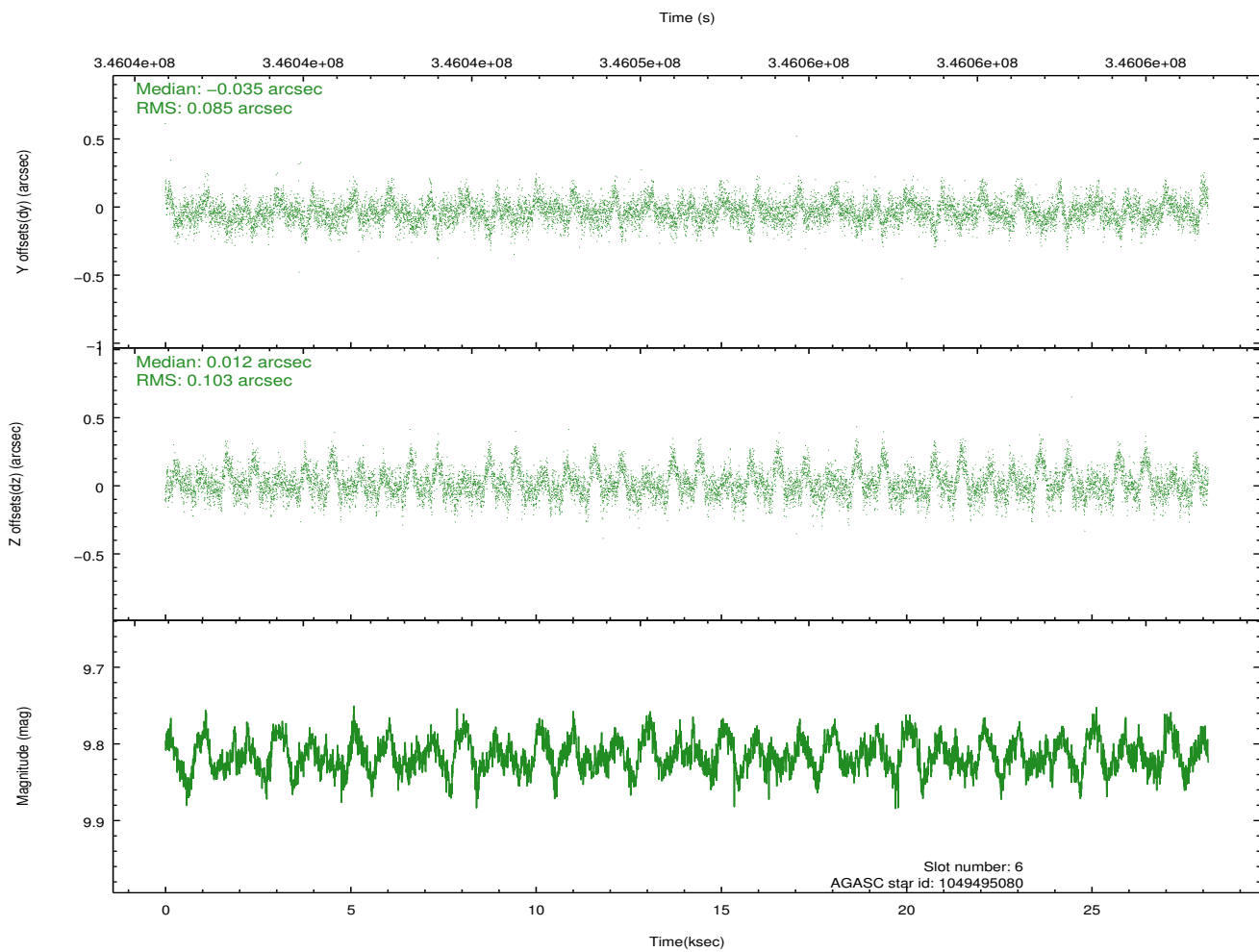
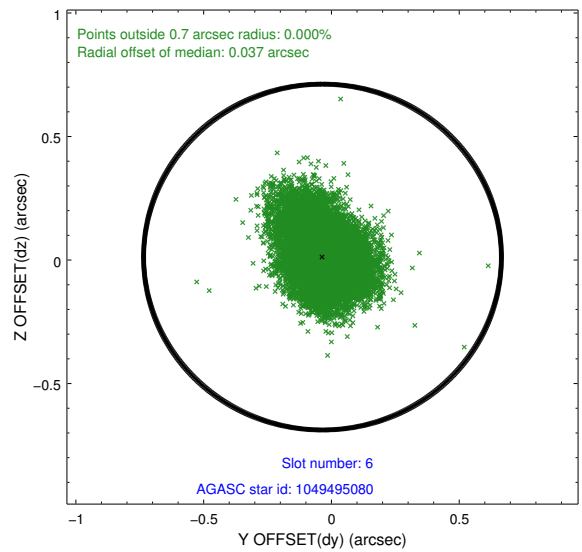
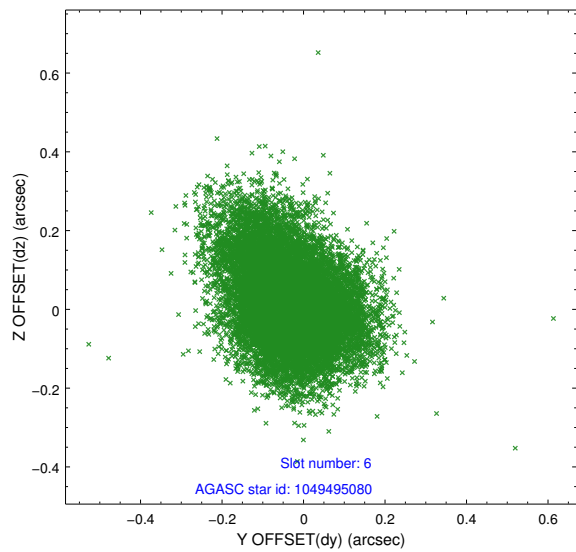
## 2.4.2 Slot 4



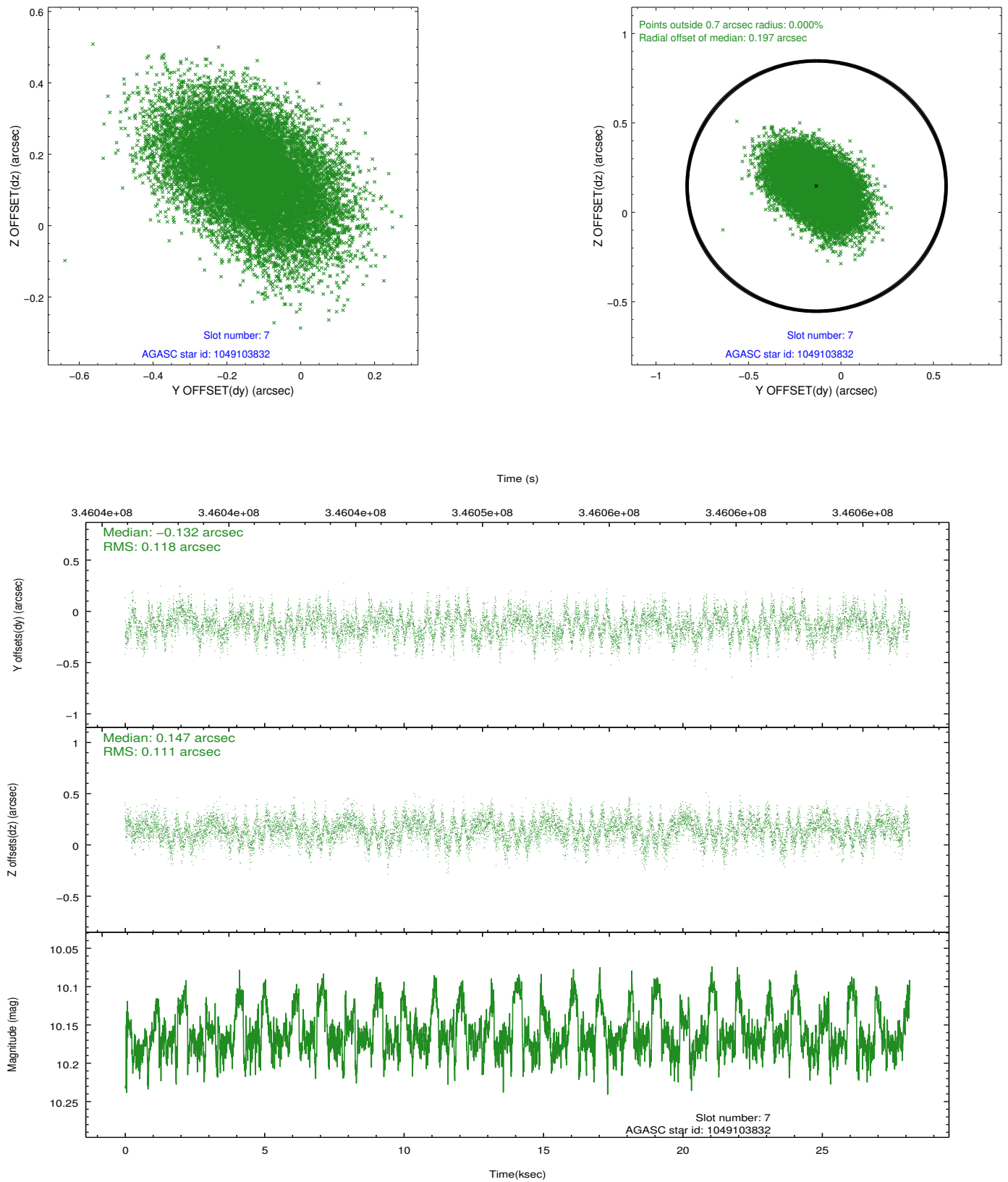
### 2.4.3 Slot 5



## 2.4.4 Slot 6

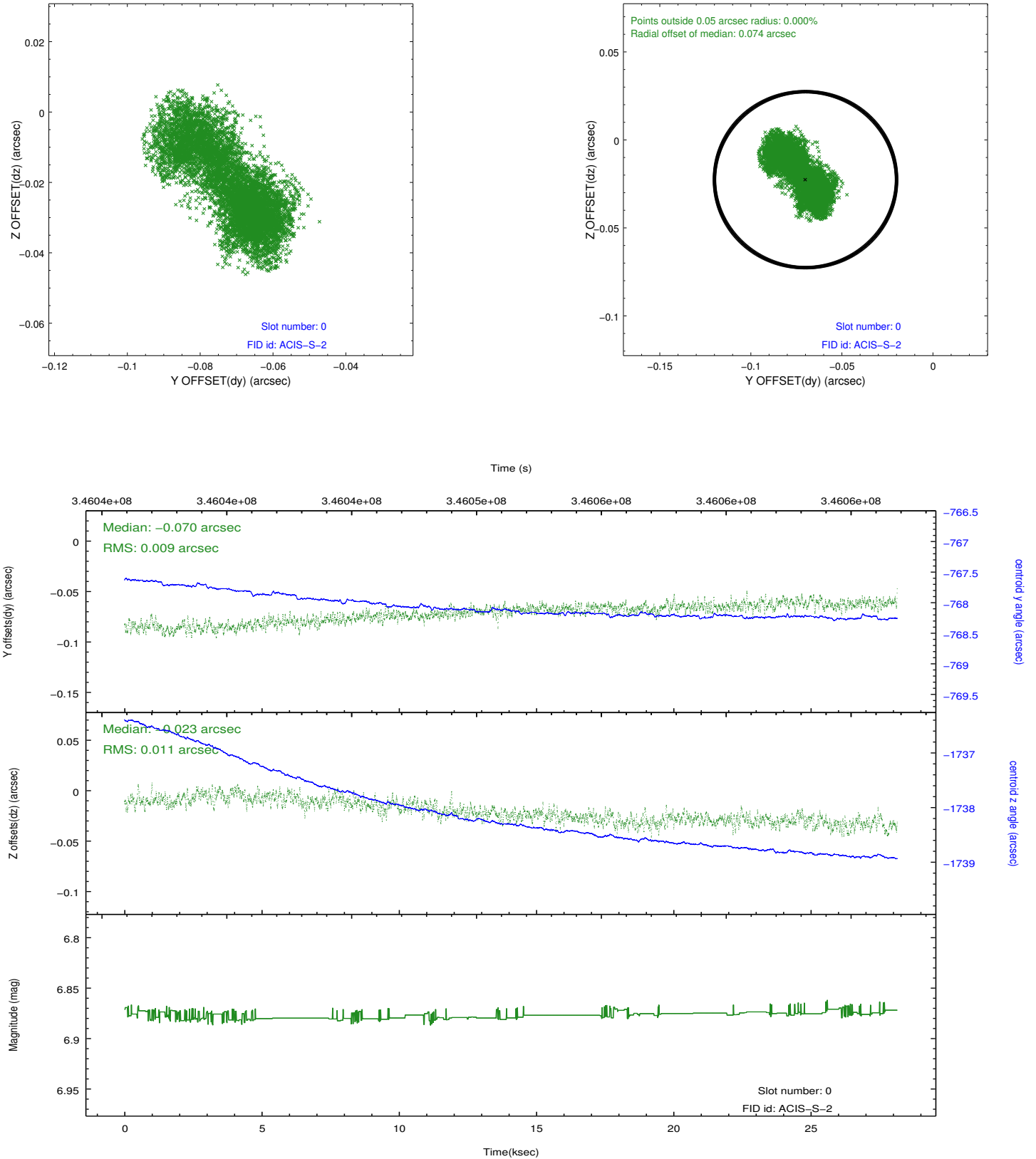


## 2.4.5 Slot 7

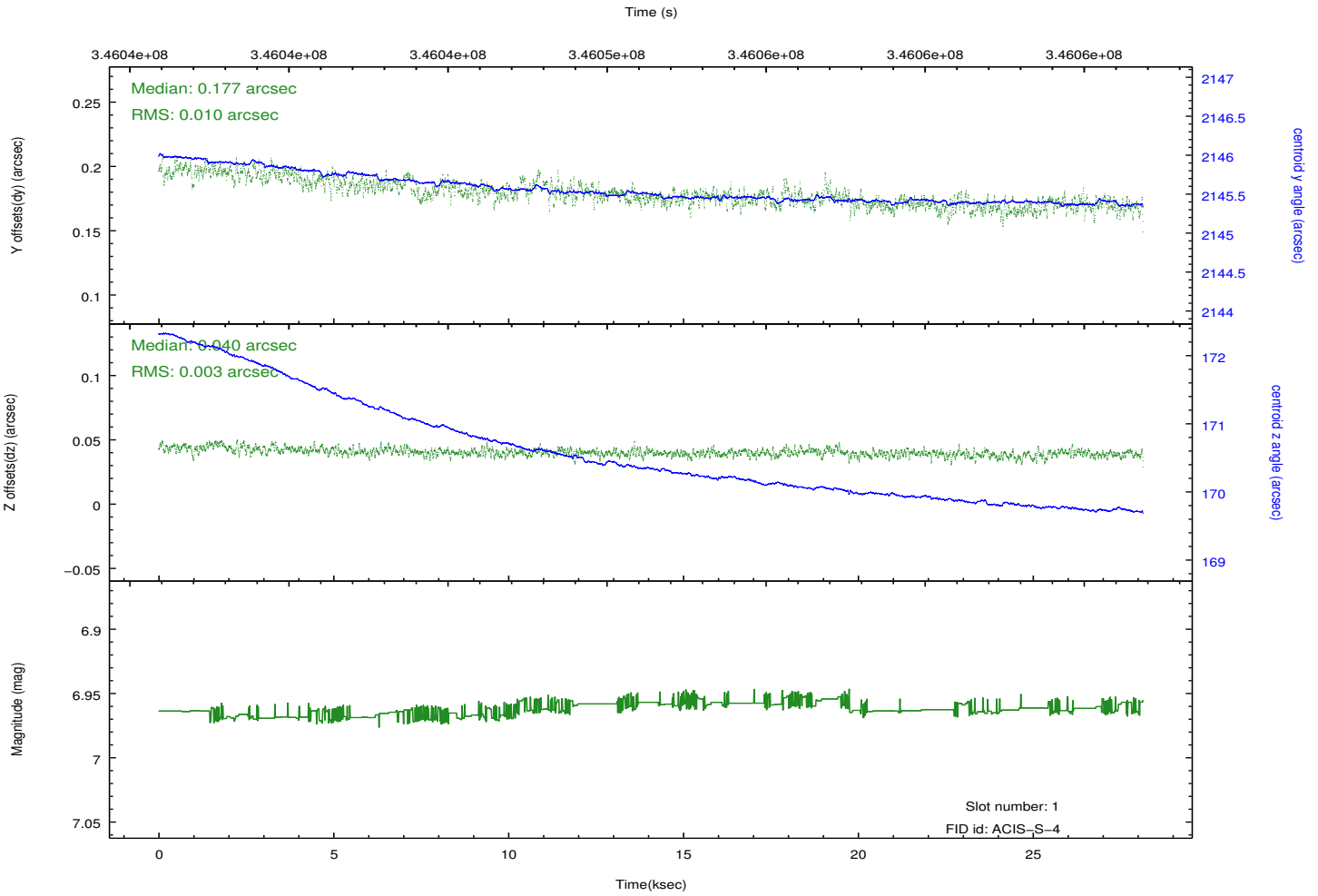
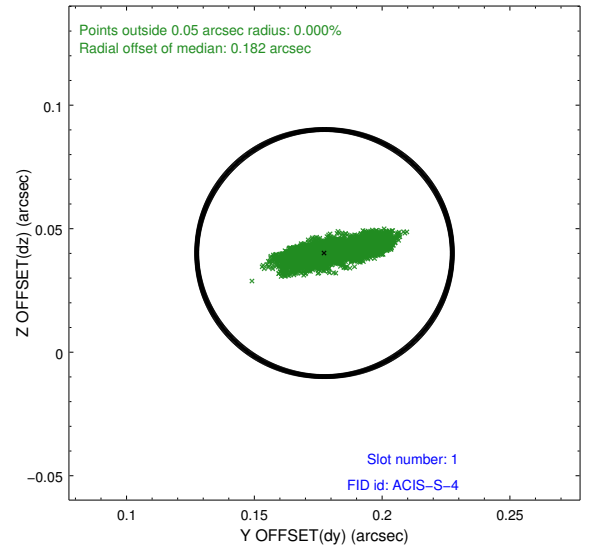
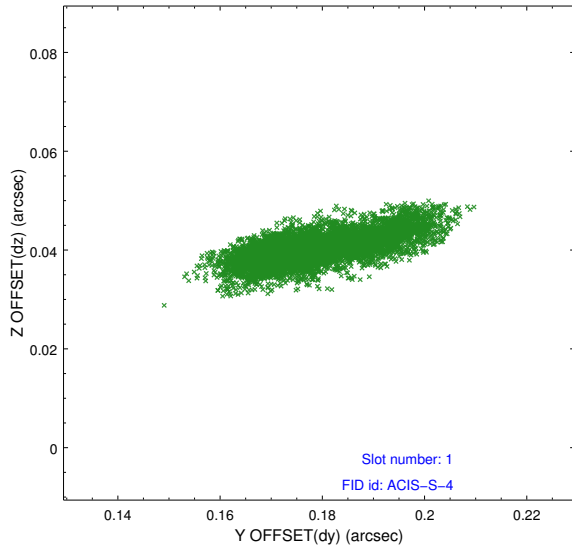


## 2.5 FID Slots

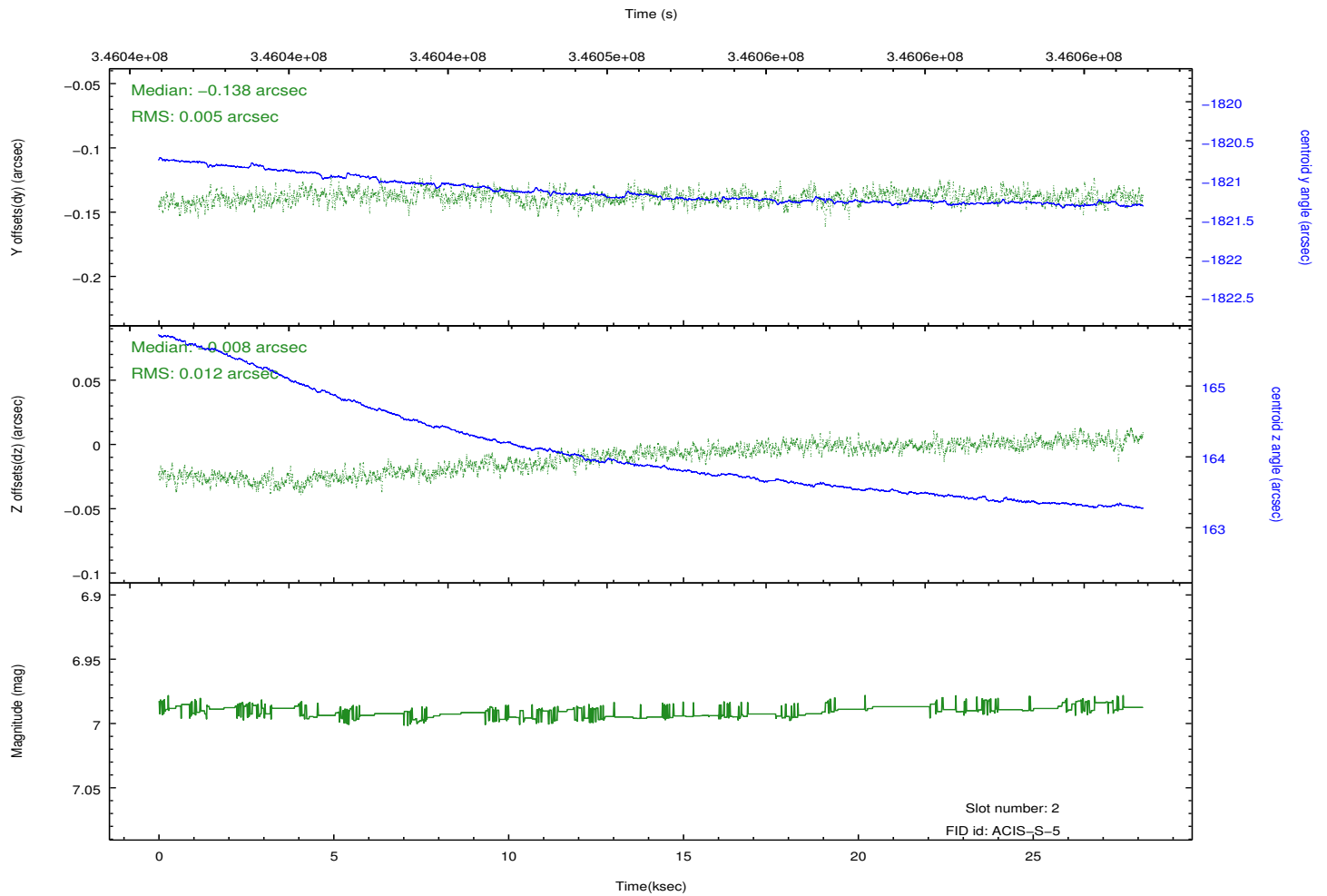
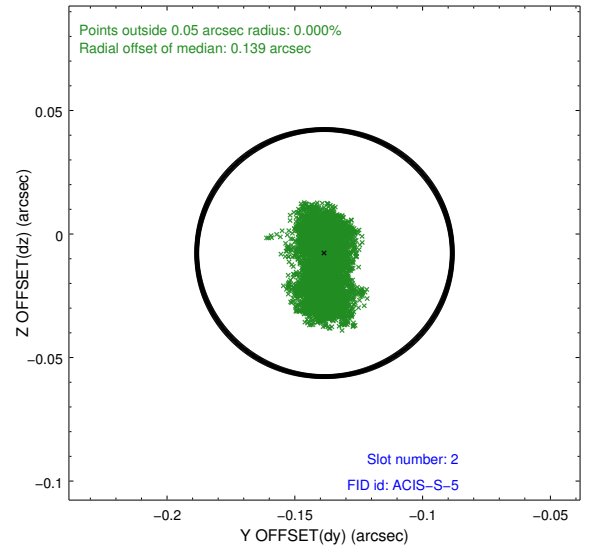
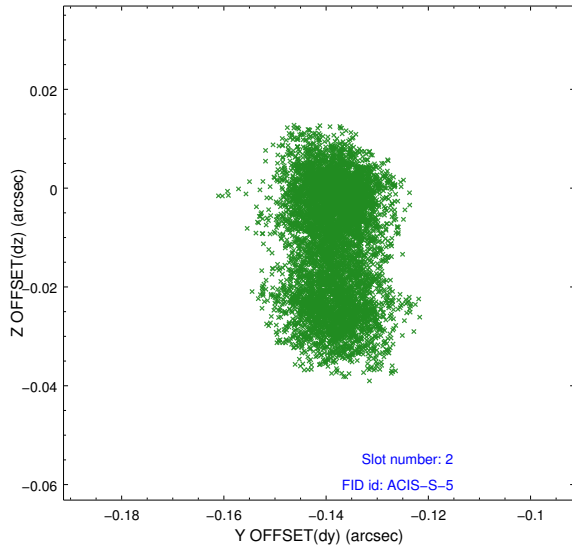
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.9871998

## A.2 Comments