

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8241 - L2 Version 2  
Chandra X-Ray Center

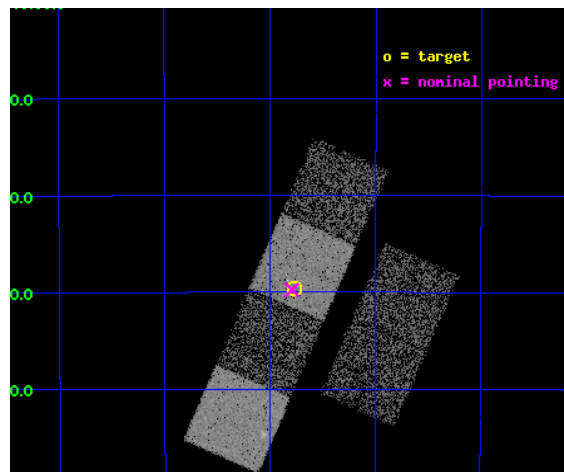
L2 Processing Date : Apr 27 2012

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# 1 Front

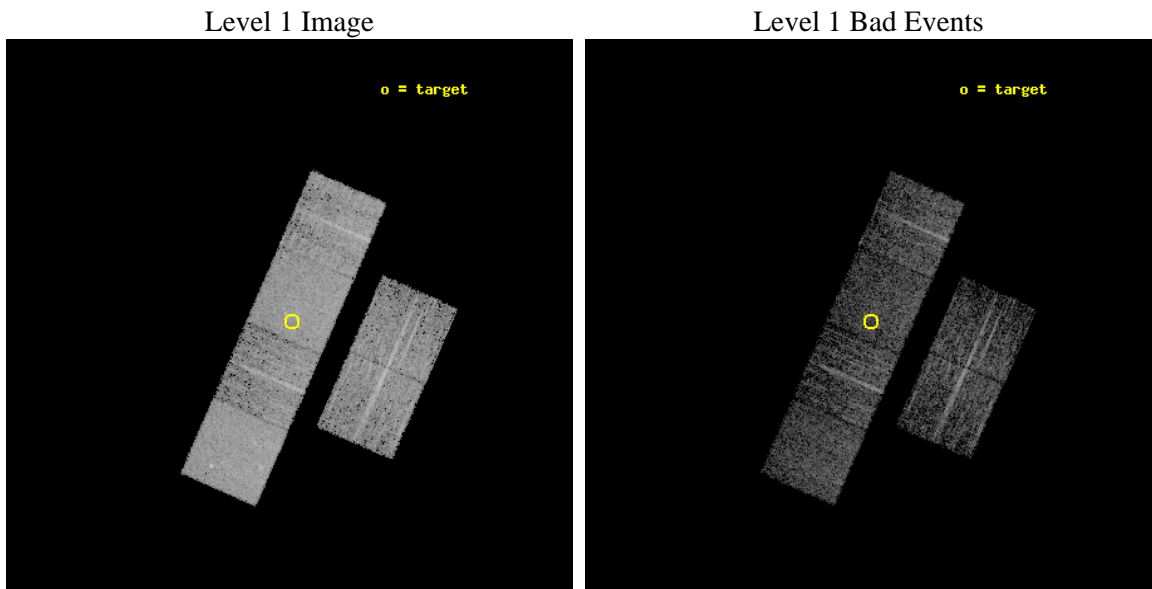
seq_num	900731	Sequence number
obs_id	8241	Observation id
title	Chandra Identification of Compact ASCA Galactic Objects - Part II	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J165646-4239	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.192917	Observer's specified target RA [deg]
dec_targ	-42.66	Observer's specified target Dec [deg]
ra_nom	254.19835766943	Nominal RA [deg]
dec_nom	-42.662827858056	Nominal Dec [deg]
roll_nom	293.58863889457	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2648.2026889324	Sum of GTIs [s]
livetime	2614.6695519289	Livetime [s]
ontime2	2648.2437289357	Sum of GTIs [s]
ontime3	2648.0795689225	Sum of GTIs [s]
ontime5	2648.1616489291	Sum of GTIs [s]
ontime6	2648.1206089258	Sum of GTIs [s]
ontime7	2648.2026889324	Sum of GTIs [s]
ontime8	2648.0385289192	Sum of GTIs [s]
l2events	43028	Number of level 2 events



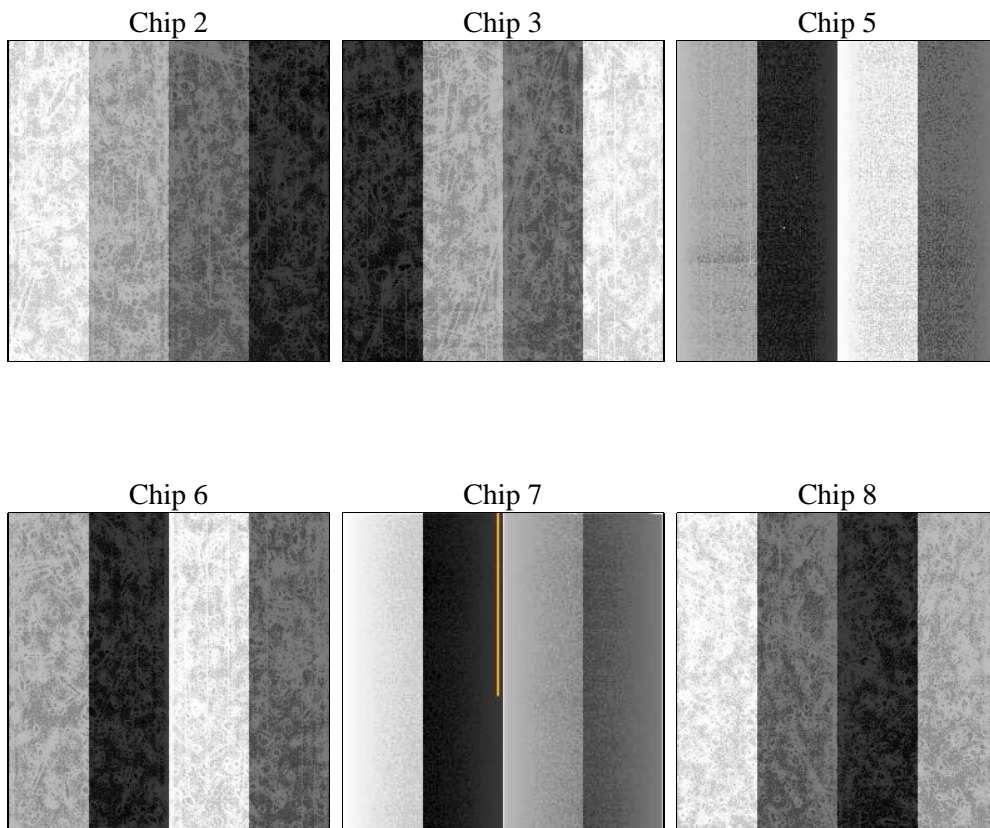
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2648.2026889324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	2648.2437289357	Sum of GTIs [s]
date	2012-04-28T00:11:18	Date and time of file creation	ontime3	2648.0795689225	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2648.1616489291	Sum of GTIs [s]
			ontime6	2648.1206089258	Sum of GTIs [s]
			ontime7	2648.2026889324	Sum of GTIs [s]
			ontime8	2648.0385289192	Sum of GTIs [s]
			l1events	186802	Number of level 1 events

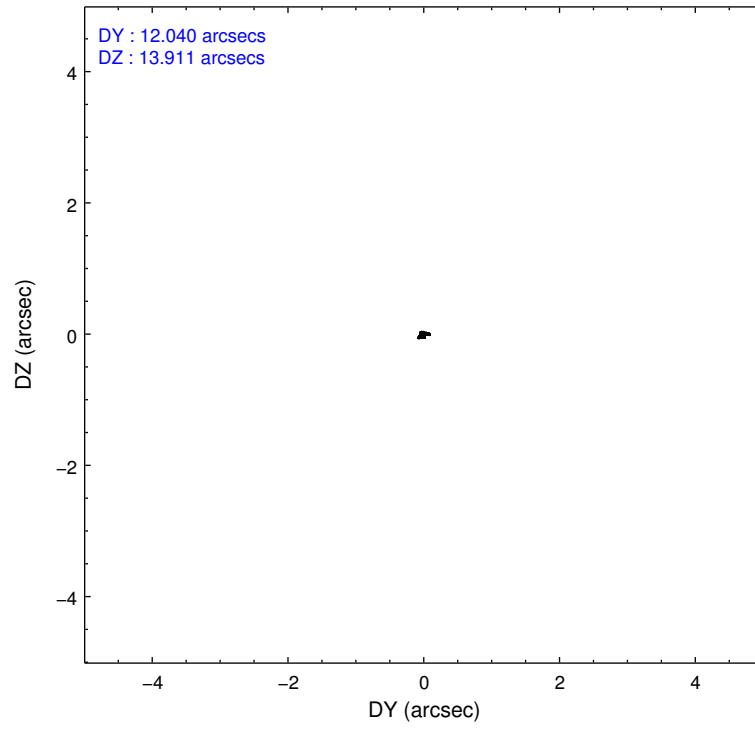
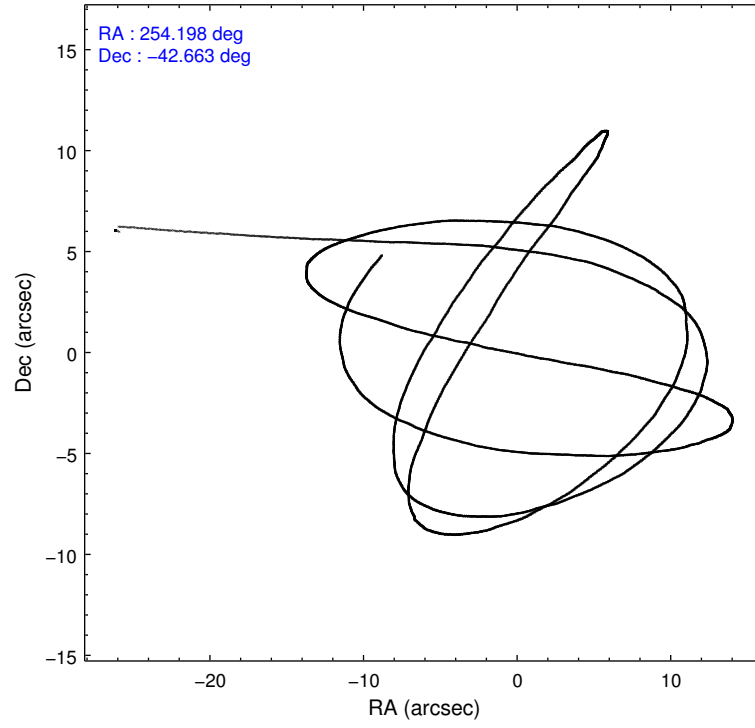
### 2.1.4 Events

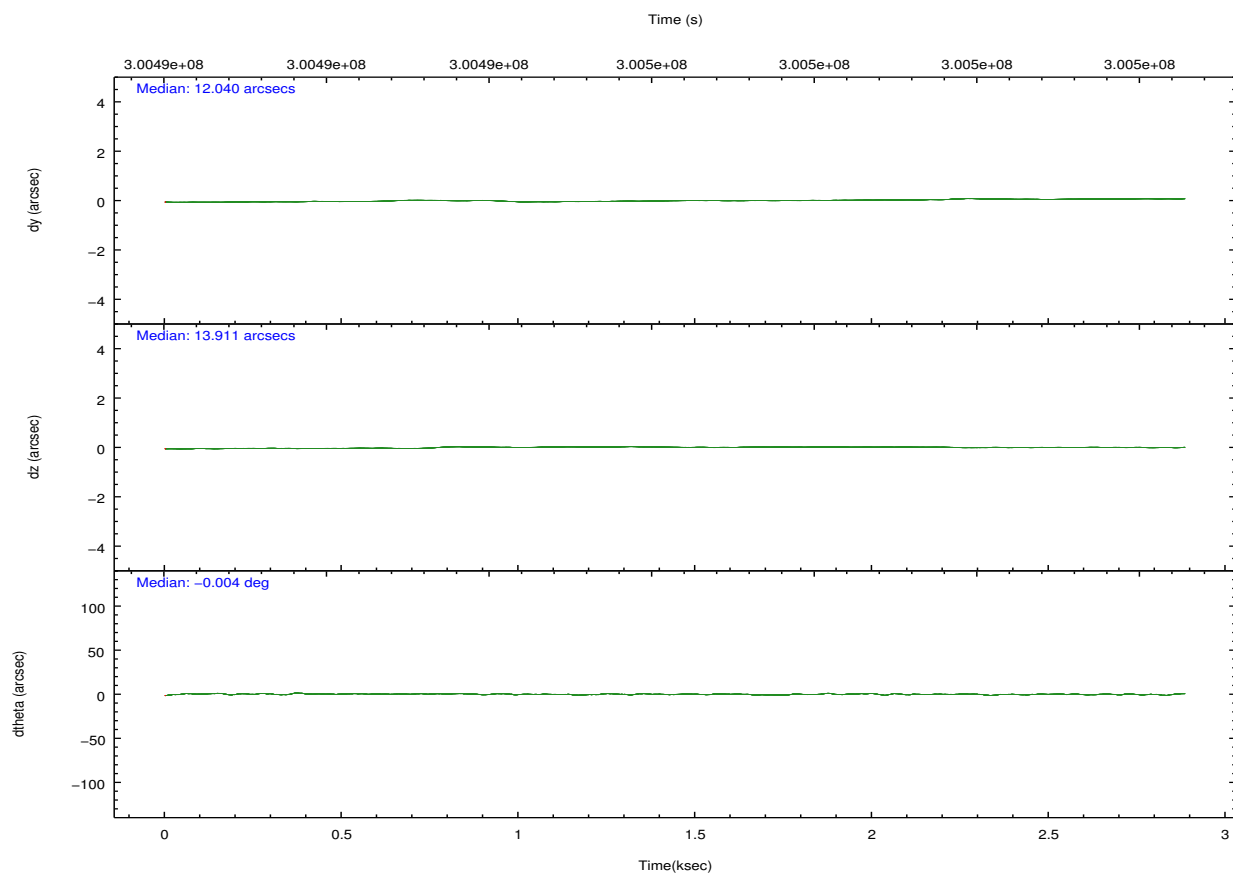
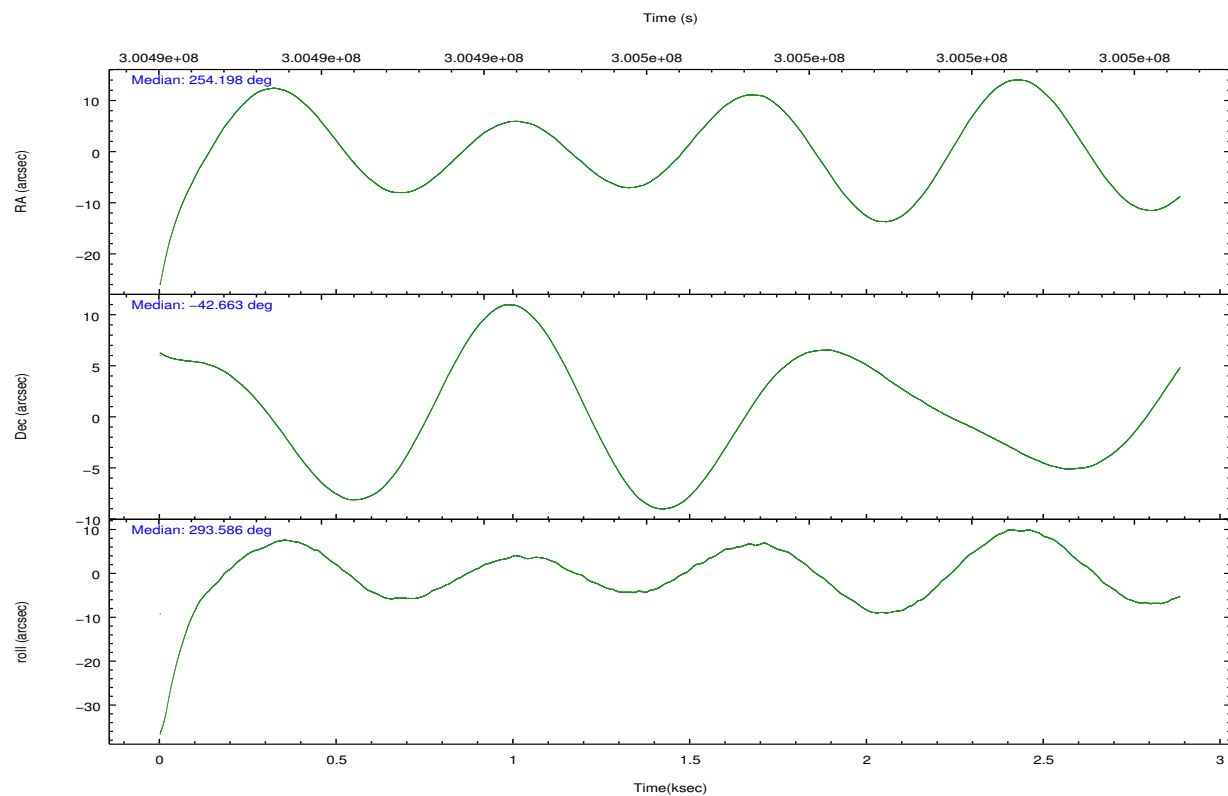
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	27137	25072	39118	26060	35850	33565	grade 0 events	1371	1324	1427	1240	1372	2452
rejected events	24027	22042	21354	22879	20774	25877		5%	5%	3%	4%	3%	7%
rejected %	88%	87%	54%	87%	57%	77%	grade 1 events	14	13	73	12	29	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	680	613	5408	709	3080	1639
								2%	2%	13%	2%	8%	4%
							grade 3 events	273	289	632	314	1319	875
								1%	1%	1%	1%	3%	2%
							grade 4 events	292	290	605	277	1318	810
								1%	1%	1%	1%	3%	2%
							grade 5 events	977	1155	2666	1123	3332	1549
								3%	4%	6%	4%	9%	4%
							grade 6 events	504	521	9747	653	8047	1977
								1%	2%	24%	2%	22%	5%
							grade 7 events	23026	20867	18560	21732	17353	24238
								84%	83%	47%	83%	48%	72%

## 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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	254.168118	254.1983576694263	CCD I2 on	O2	Y
[deg] Pointing Dec	-42.646841	-42.66282785805607	CCD I3 on	O3	Y
[deg] Pointing Roll	293.411567	293.5886388945665	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)	300493819.184000	300492702.76587	CCD S5 on	N	N
Observation start date	2007-07-10T22:29:14	2007-07-10T22:11:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	300496519.184000	300497758.57861	On-chip summing requested	N	N
Observation end date	2007-07-10T23:14:14	2007-07-10T23:35:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





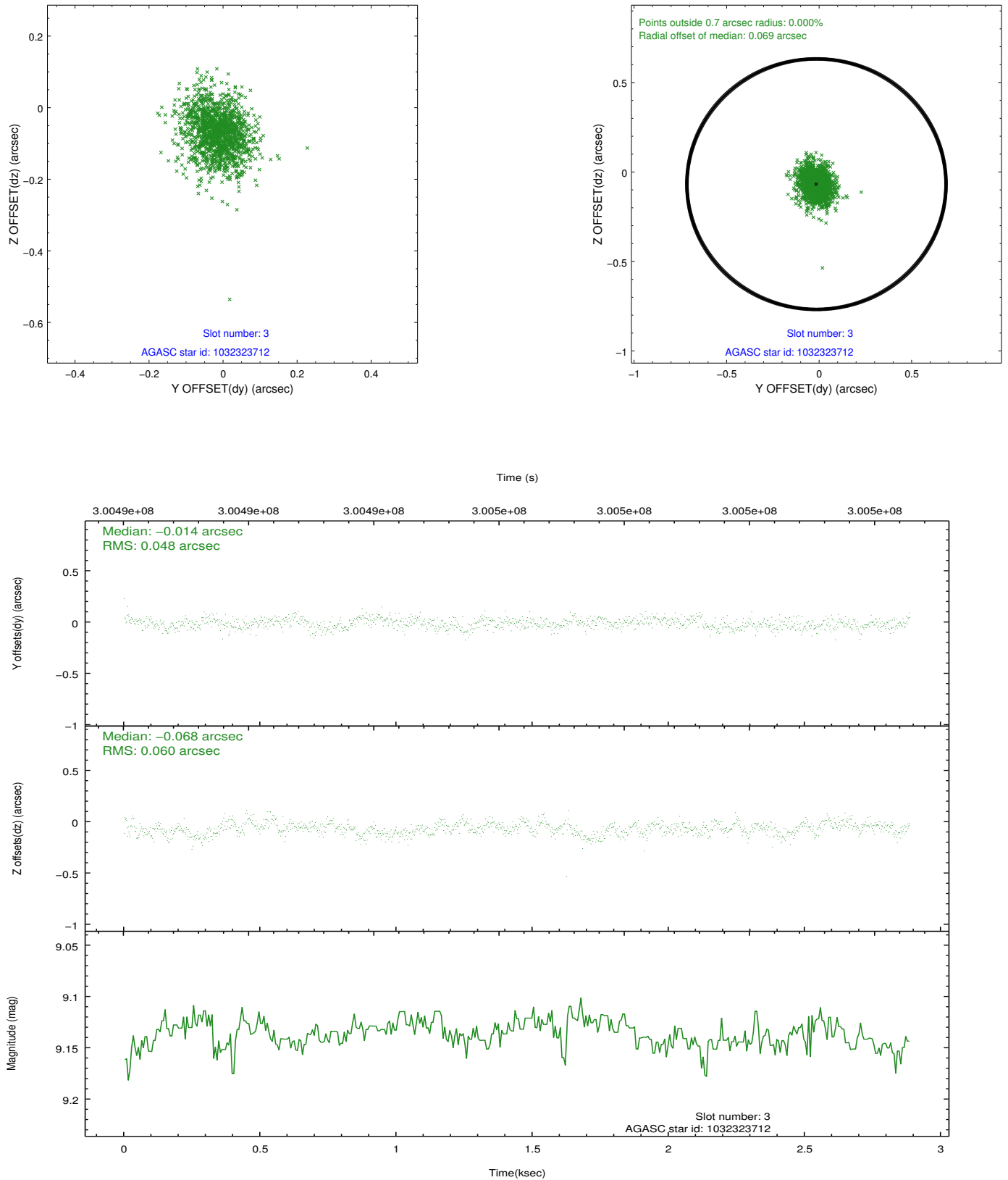
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	704	-0.084	-0.055	0.006	0.011	0.000000	0.000000	-765.00	-1735.31
1	FID	ACIS-S-4	7.19	704	0.107	0.035	0.006	0.011	0.000000	0.000000	2147.44	170.97
2	FID	ACIS-S-6	7.33	704	-0.050	0.028	0.007	0.012	0.000000	0.000000	399.85	810.88
3	GUIDE	1032323712	9.14	1407	-0.014	-0.068	0.079	0.135	254.183673	-42.363410	-919.72	443.53
4	GUIDE	1032332824	8.91	1408	-0.156	-0.035	0.075	0.119	253.226957	-42.348581	-1968.08	-1876.39
5	GUIDE	1032336736	8.93	1407	0.003	0.057	0.064	0.105	254.770818	-42.975293	1719.84	983.77
6	GUIDE	1032857480	7.26	1408	0.134	-0.060	0.075	0.116	253.897060	-43.315989	1931.29	-1608.41
7	GUIDE	1032331856	9.23	1401	0.036	0.109	0.095	0.149	253.958485	-42.587067	-415.88	-425.64

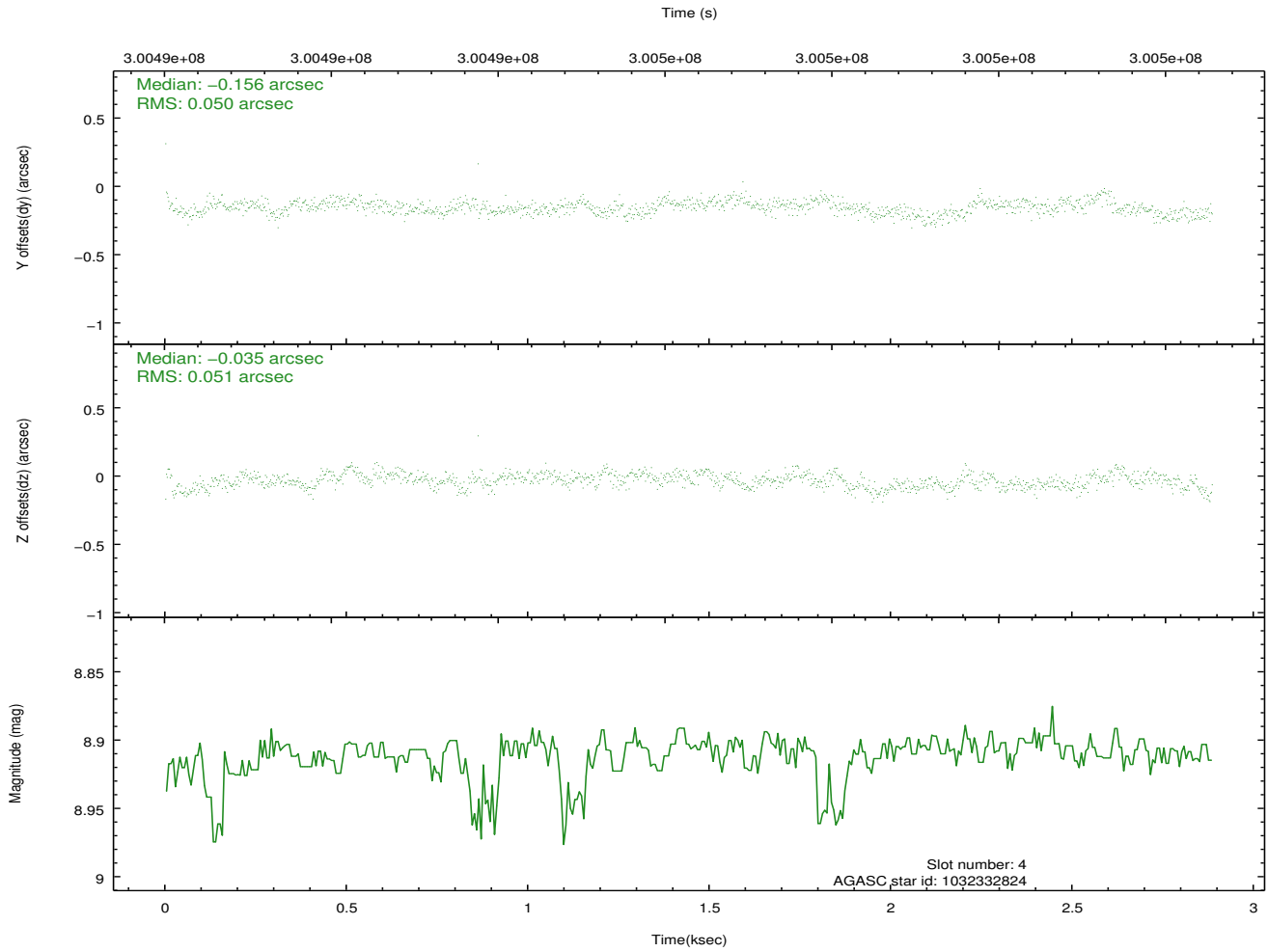
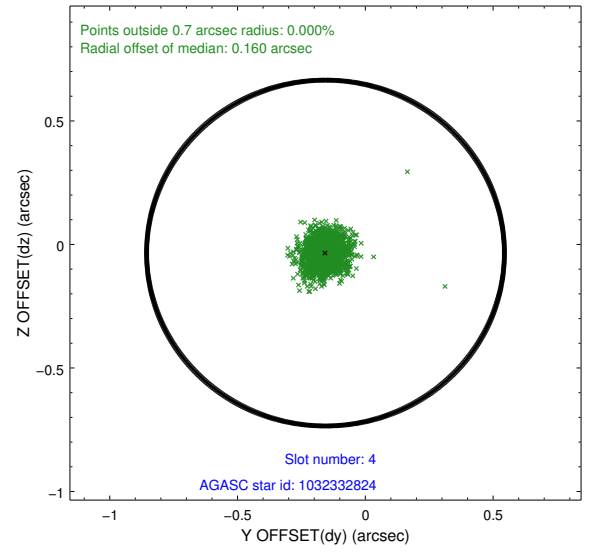
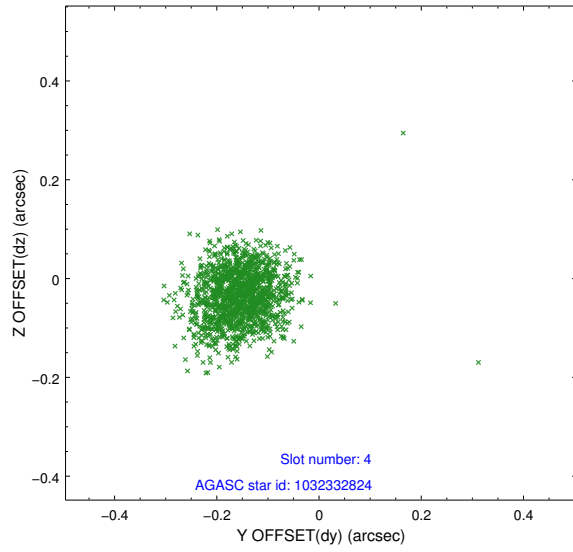


## 2.4 Star Slots

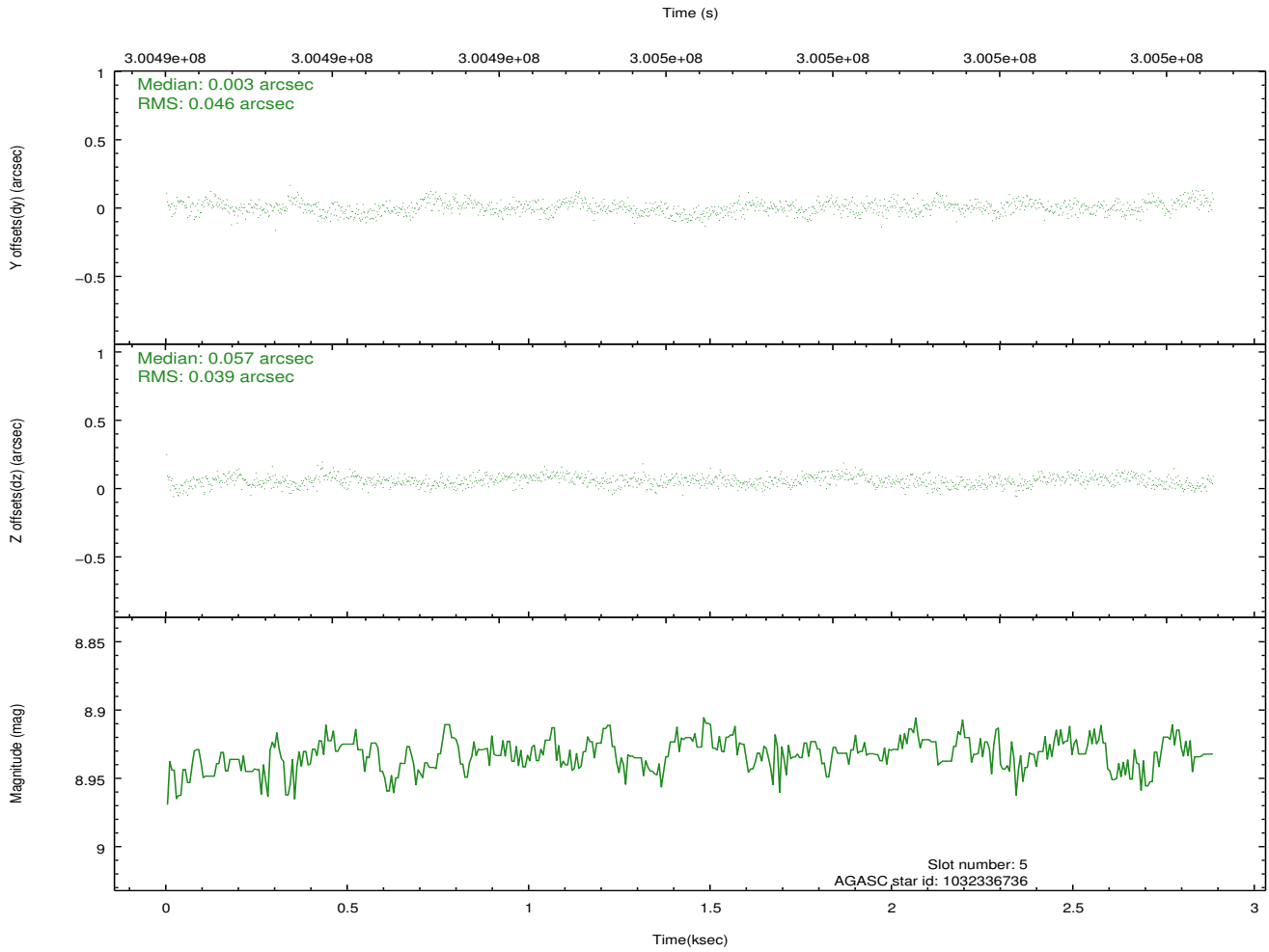
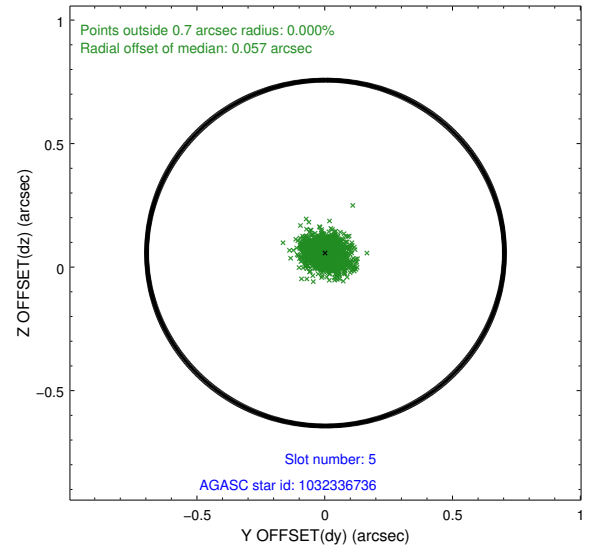
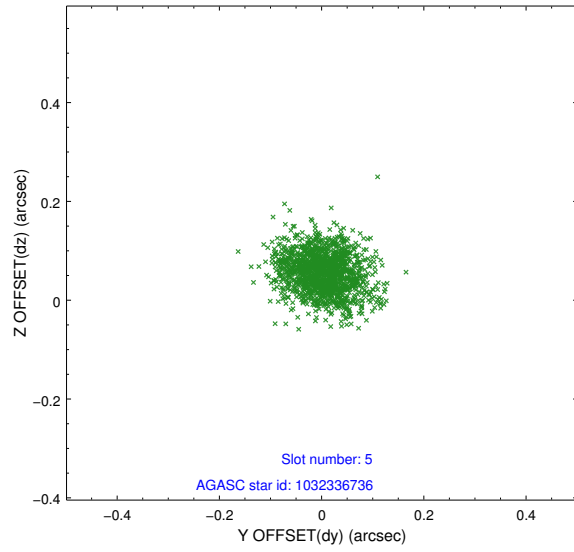
### 2.4.1 Slot 3



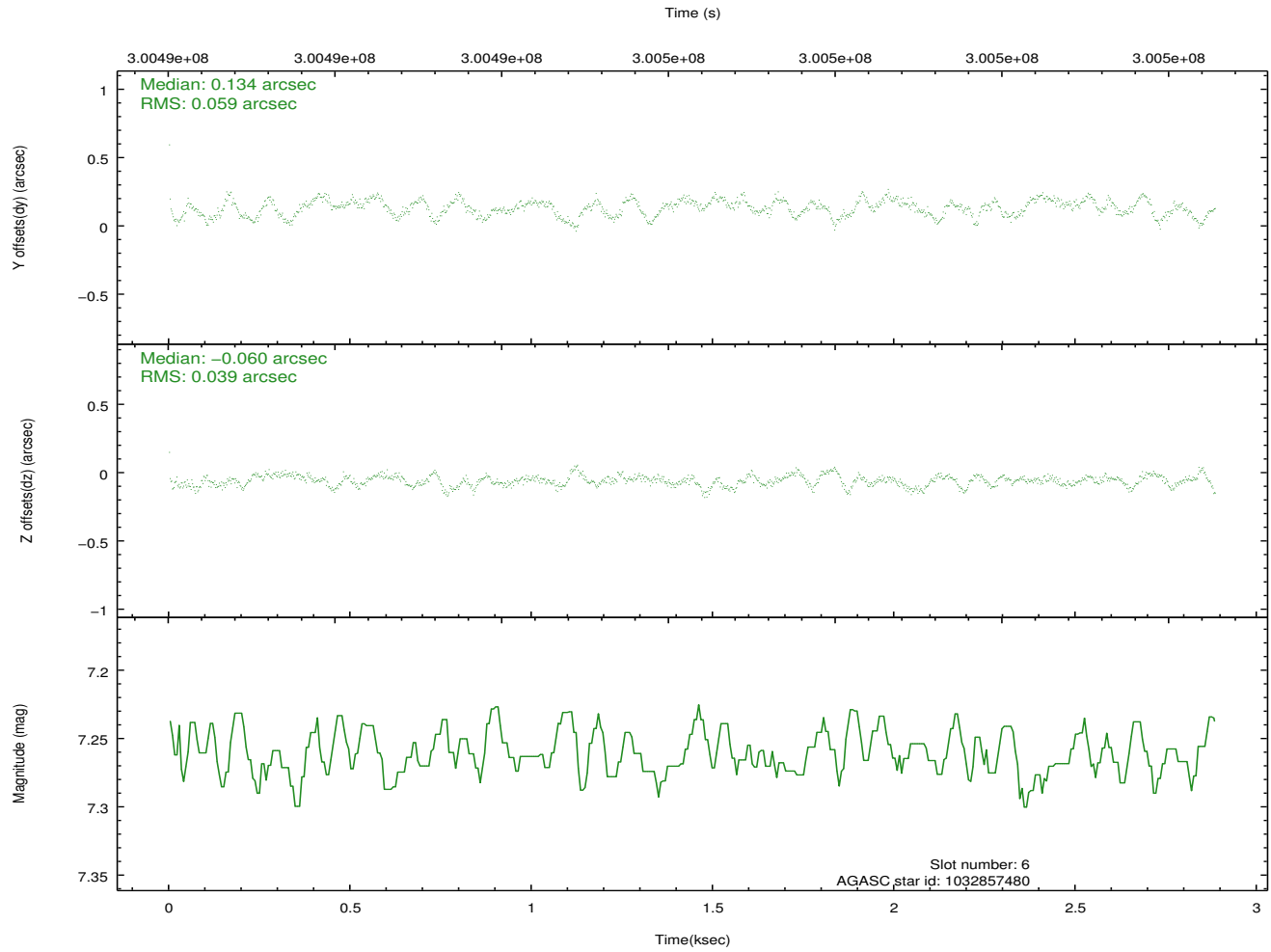
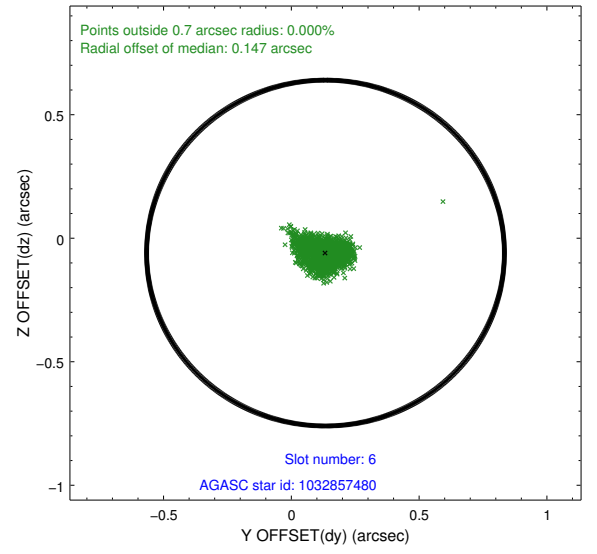
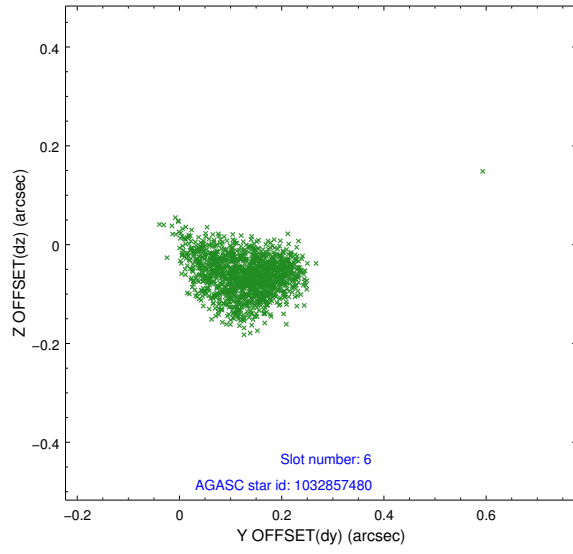
## 2.4.2 Slot 4



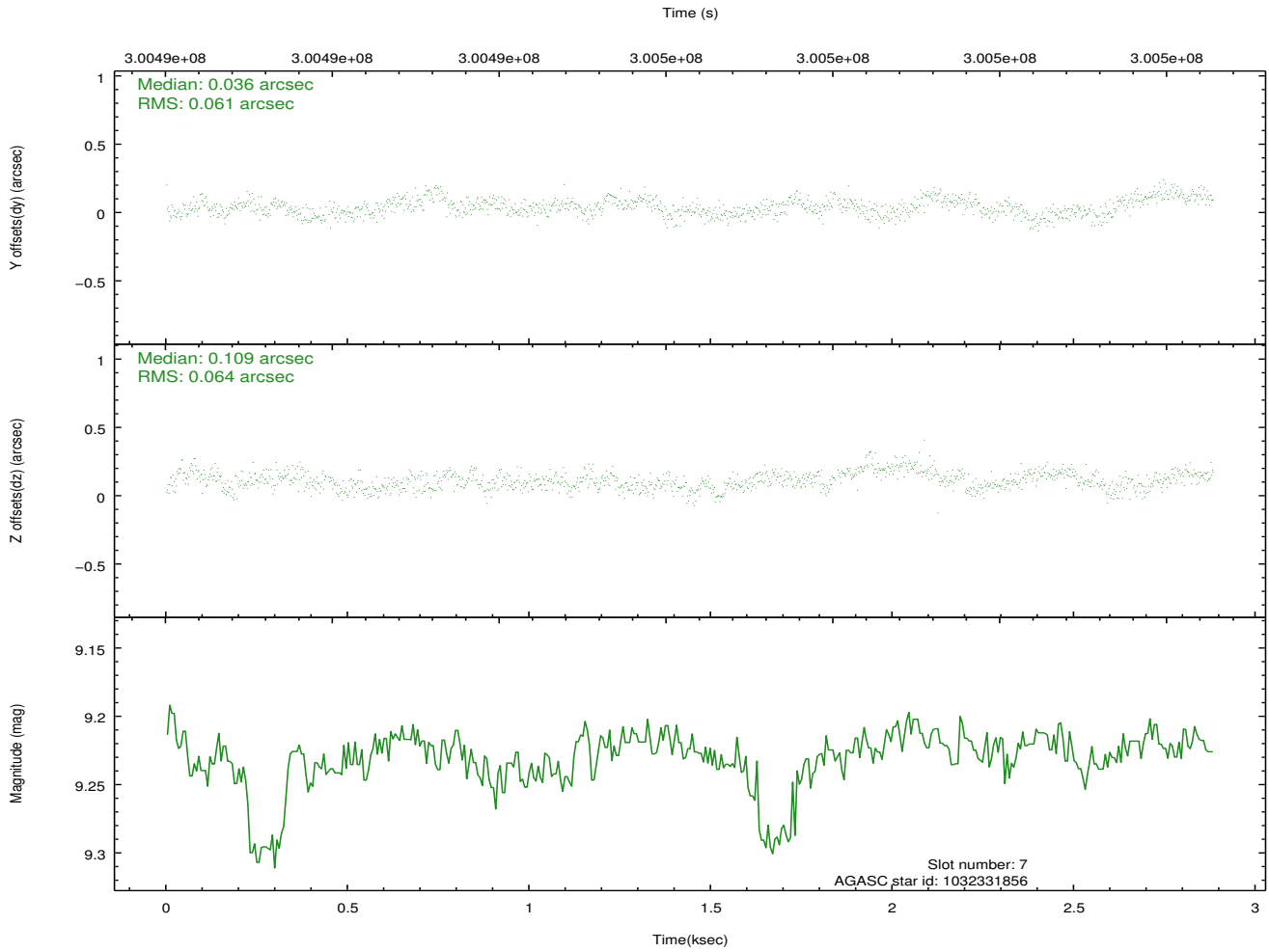
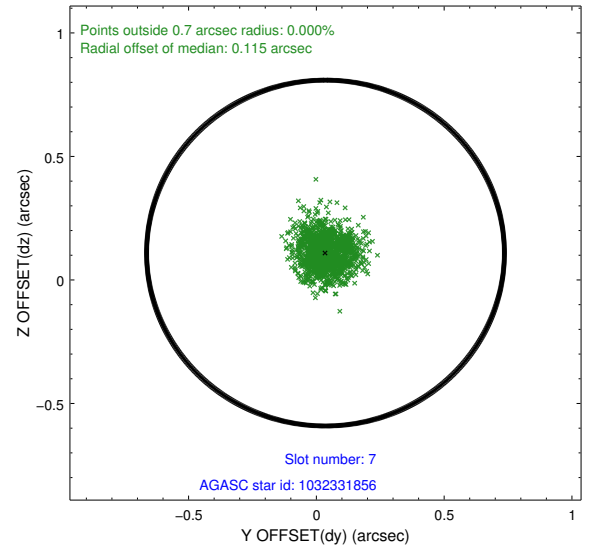
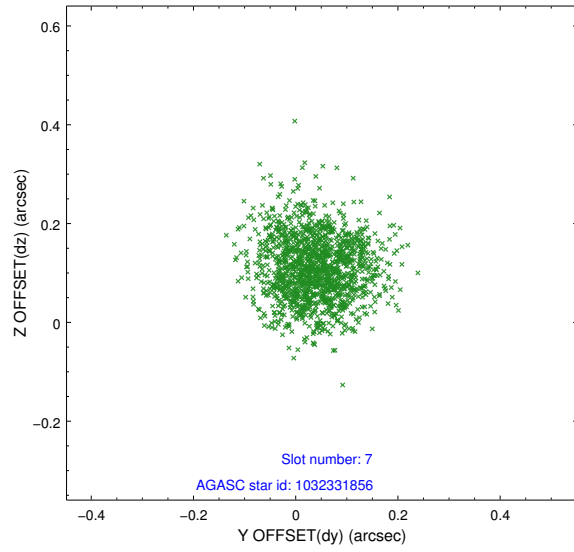
### 2.4.3 Slot 5



## 2.4.4 Slot 6

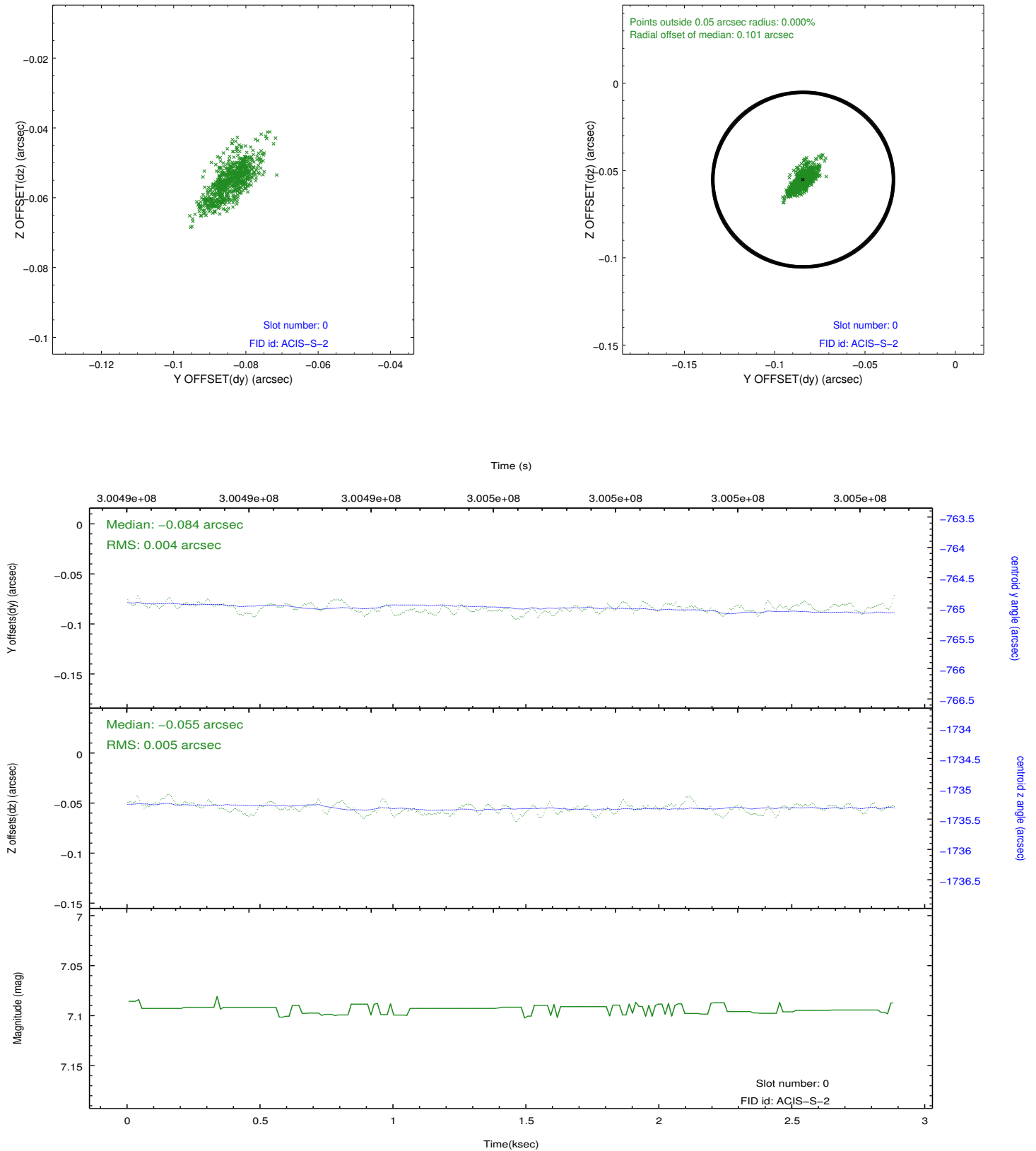


## 2.4.5 Slot 7

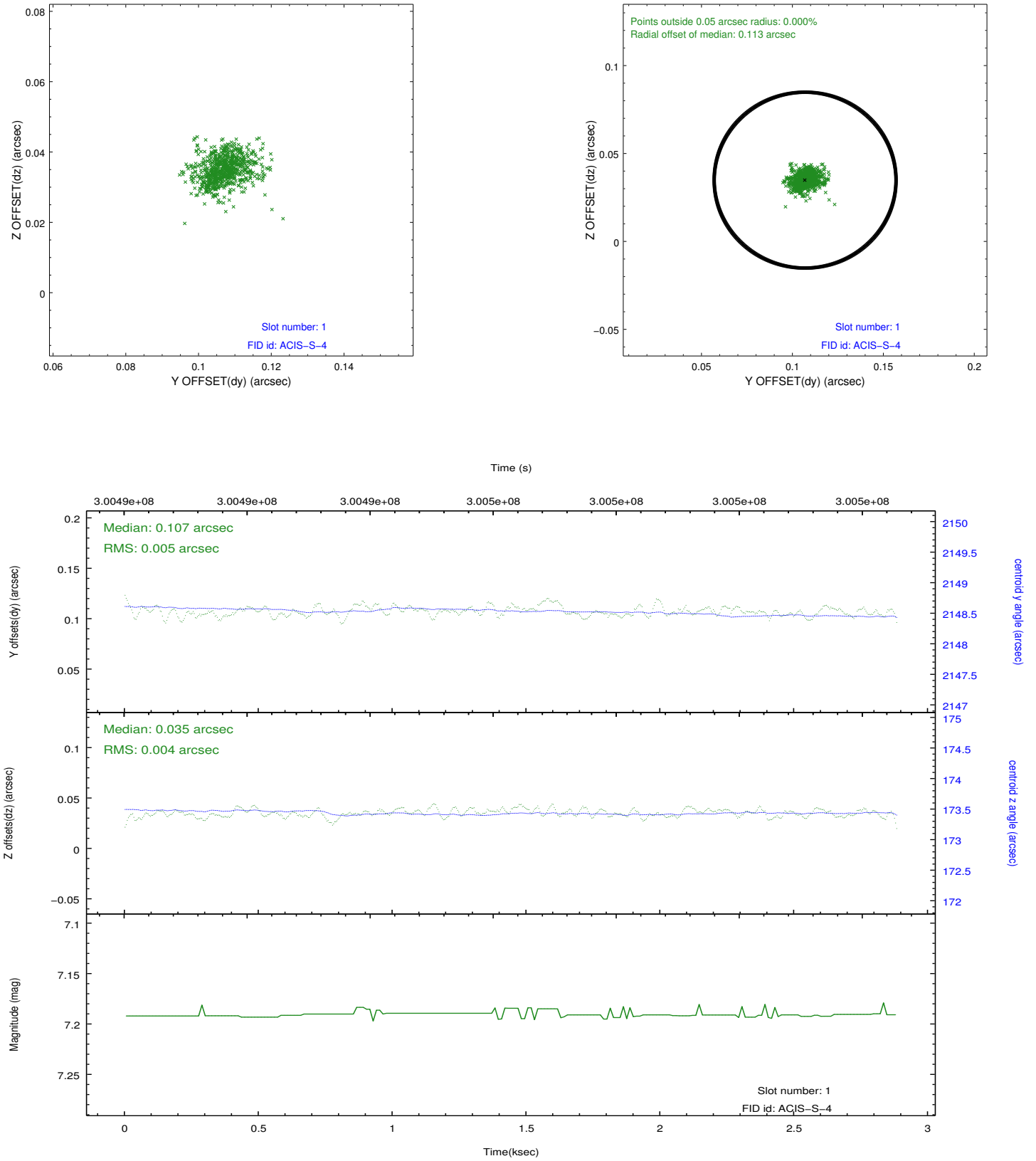


## 2.5 FID Slots

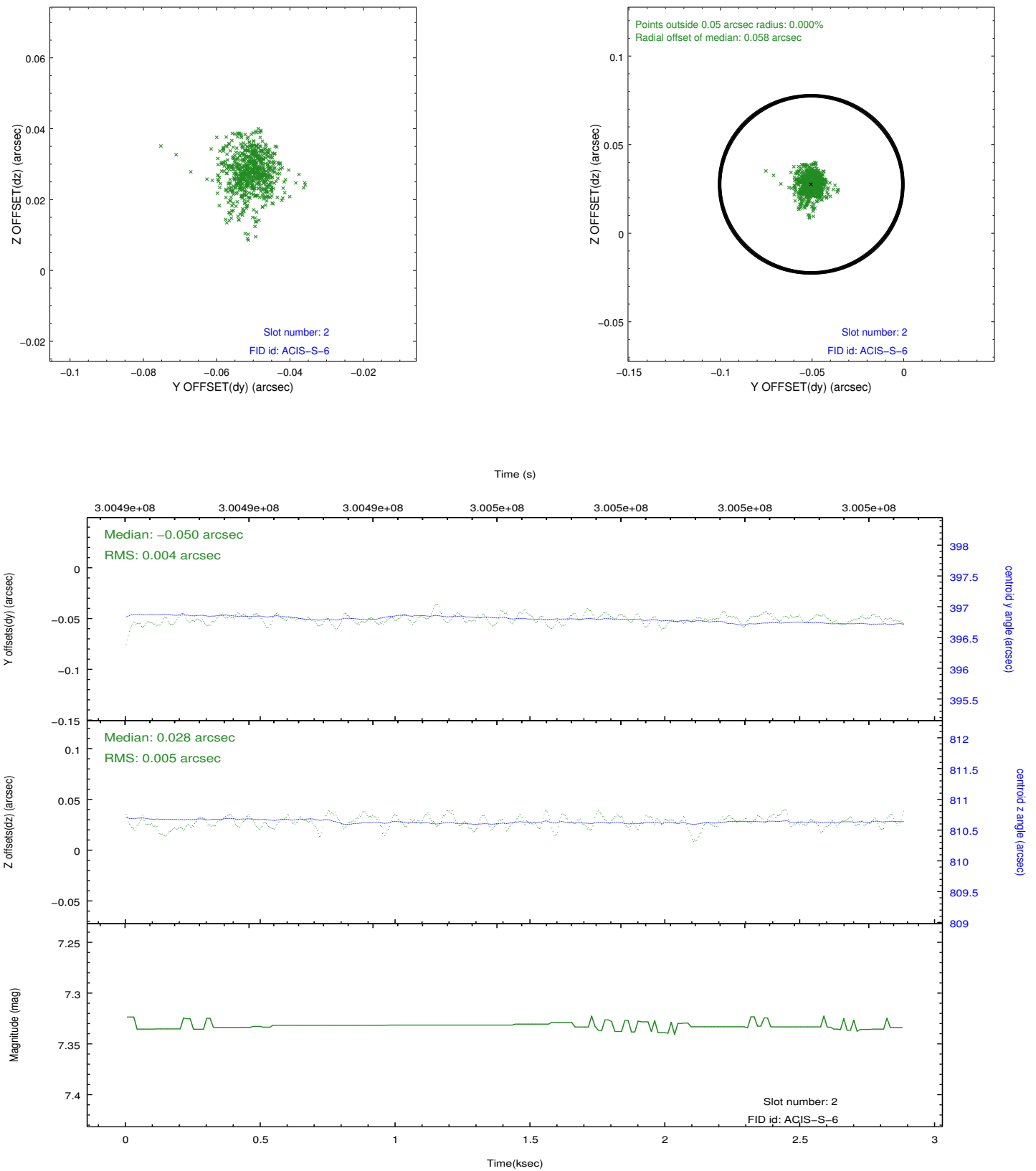
### 2.5.1 Slot 0



## 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)	2012.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.64959999

### A.2 Comments