

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10508 - L2 Version 2  
Chandra X-Ray Center

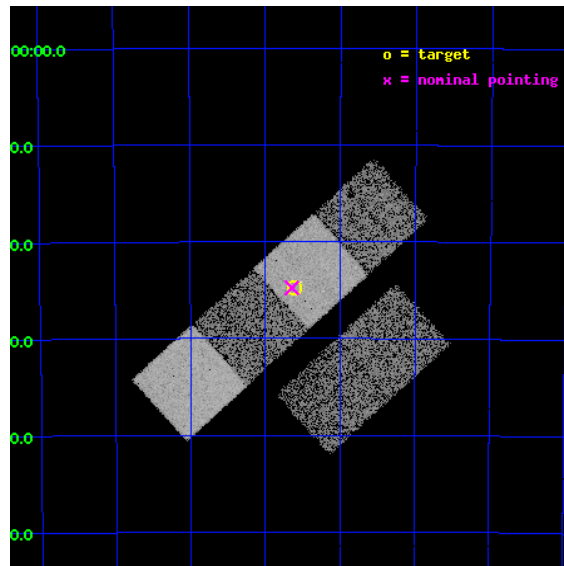
L2 Processing Date : Jun 8 2012

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# 1 Front

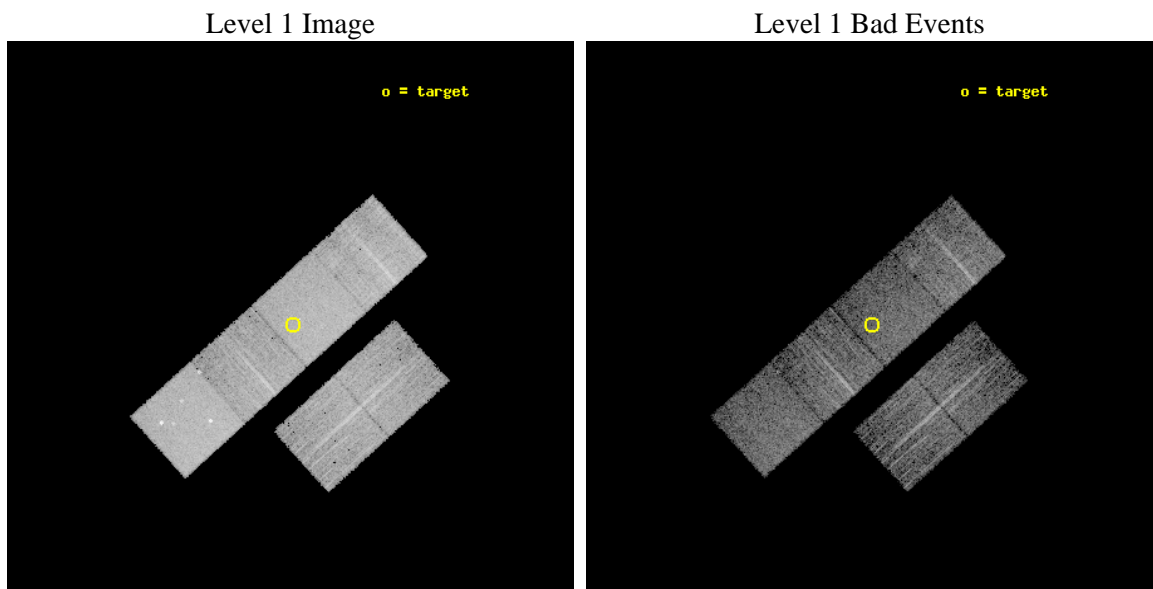
seq_num	900876	Sequence number
obs_id	10508	Observation id
title	ChIcAGO: Chandra Identification of ASCA Galactic Objects	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	AX J150436-5824	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	226.152083	Observer's specified target RA [deg]
dec_targ	-58.412	Observer's specified target Dec [deg]
ra_nom	226.16120062797	Nominal RA [deg]
dec_nom	-58.412908939648	Nominal Dec [deg]
roll_nom	317.79033558156	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4355.1999838352	Sum of GTIs [s]
livetime	4300.0518192533	Livetime [s]
ontime2	4355.1999838352	Sum of GTIs [s]
ontime3	4355.1999838352	Sum of GTIs [s]
ontime5	4355.1999838352	Sum of GTIs [s]
ontime6	4355.1999838352	Sum of GTIs [s]
ontime7	4355.1999838352	Sum of GTIs [s]
ontime8	4348.7179228067	Sum of GTIs [s]
l2events	77399	Number of level 2 events



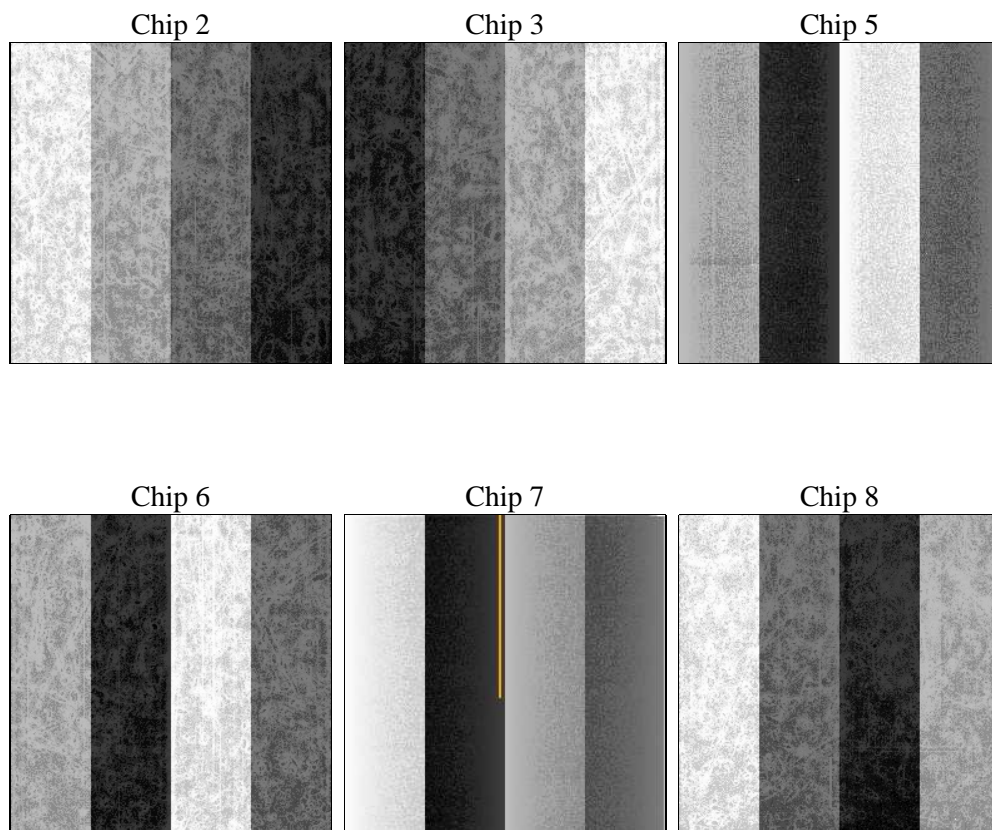
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4355.1999838352	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	4355.1999838352	Sum of GTIs [s]
date	2012-06-08T07:57:41	Date and time of file creation	ontime3	4355.1999838352	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4355.1999838352	Sum of GTIs [s]
			ontime6	4355.1999838352	Sum of GTIs [s]
			ontime7	4355.1999838352	Sum of GTIs [s]
			ontime8	4348.7179228067	Sum of GTIs [s]
			l1events	335474	Number of level 1 events

### 2.1.4 Events

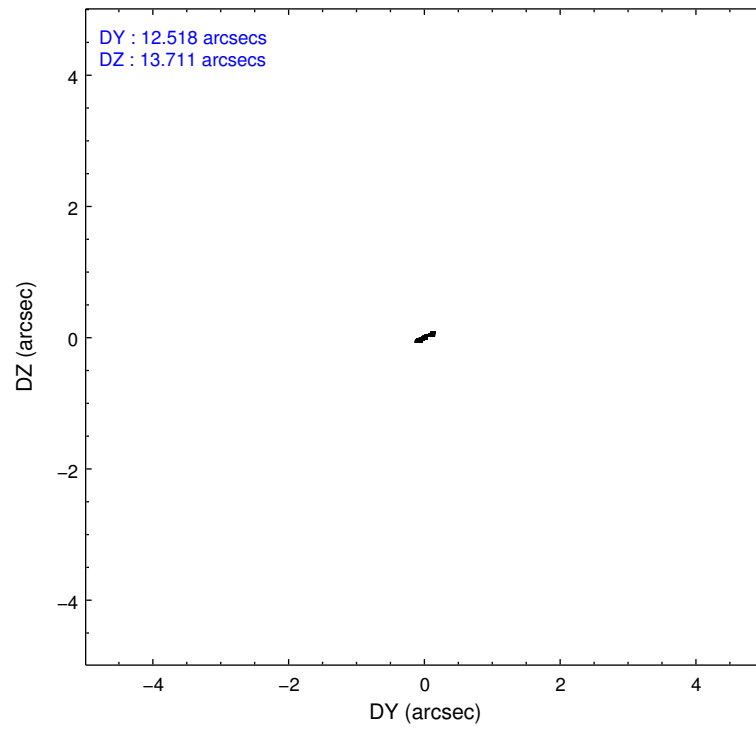
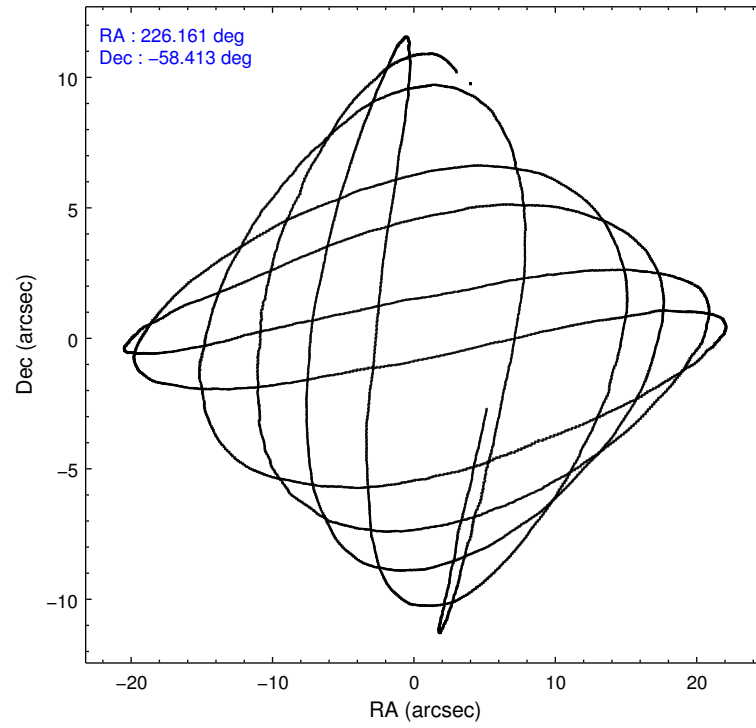
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45642	43695	72853	47545	64353	61386	grade 0 events	2357	2533	3540	2438	2329	4328
rejected events	40209	38086	39221	41667	37369	47727		5%	5%	4%	5%	3%	7%
rejected %	88%	87%	53%	87%	58%	77%	grade 1 events	31	33	176	38	81	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1174	1088	10424	1237	5546	3105
								2%	2%	14%	2%	8%	5%
							grade 3 events	518	546	1075	531	2269	1518
								1%	1%	1%	1%	3%	2%
							grade 4 events	512	458	1143	551	2183	1351
								1%	1%	1%	1%	3%	2%
							grade 5 events	2021	2231	5075	2288	6019	2989
								4%	5%	6%	4%	9%	4%
							grade 6 events	875	989	17478	1124	14670	3361
								1%	2%	23%	2%	22%	5%
							grade 7 events	38154	35817	33942	39338	31256	44673
								83%	81%	46%	82%	48%	72%

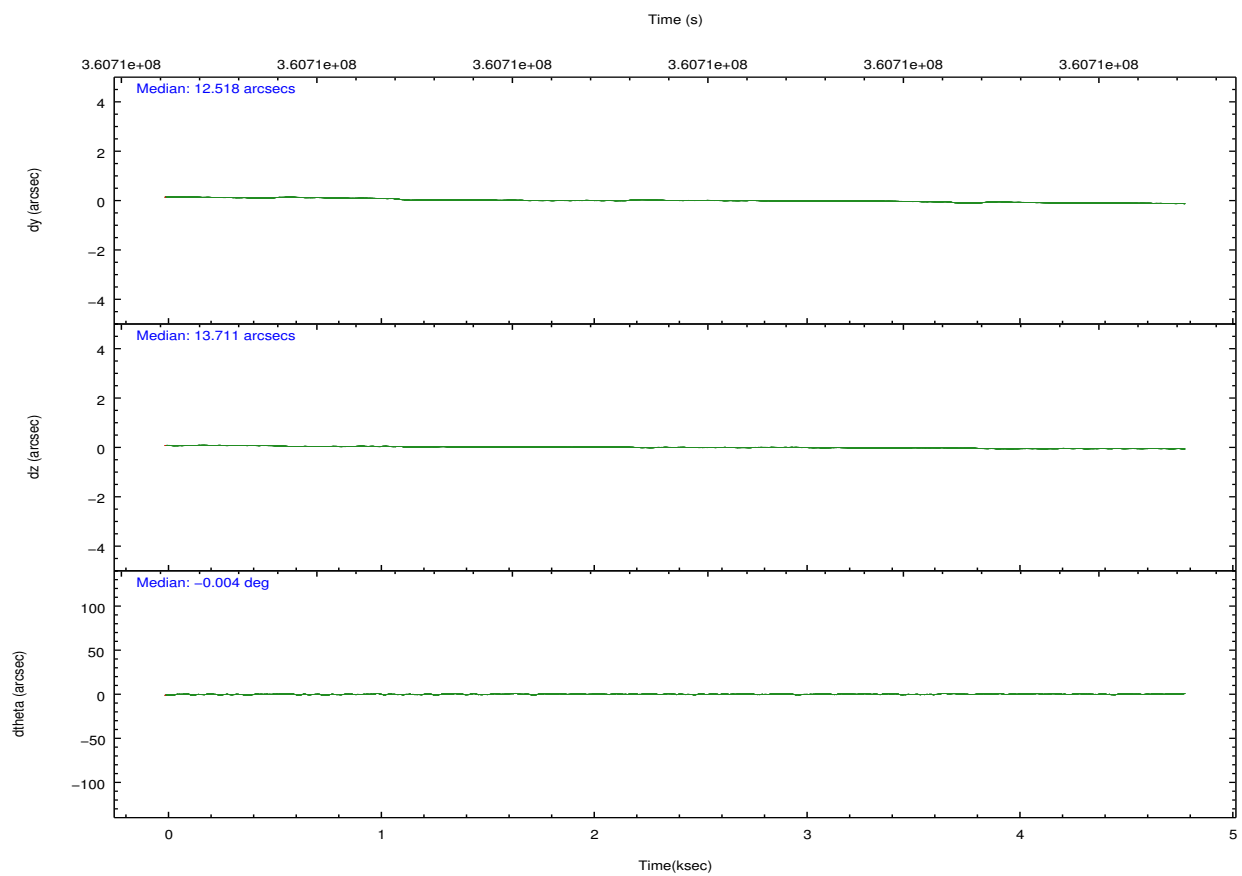
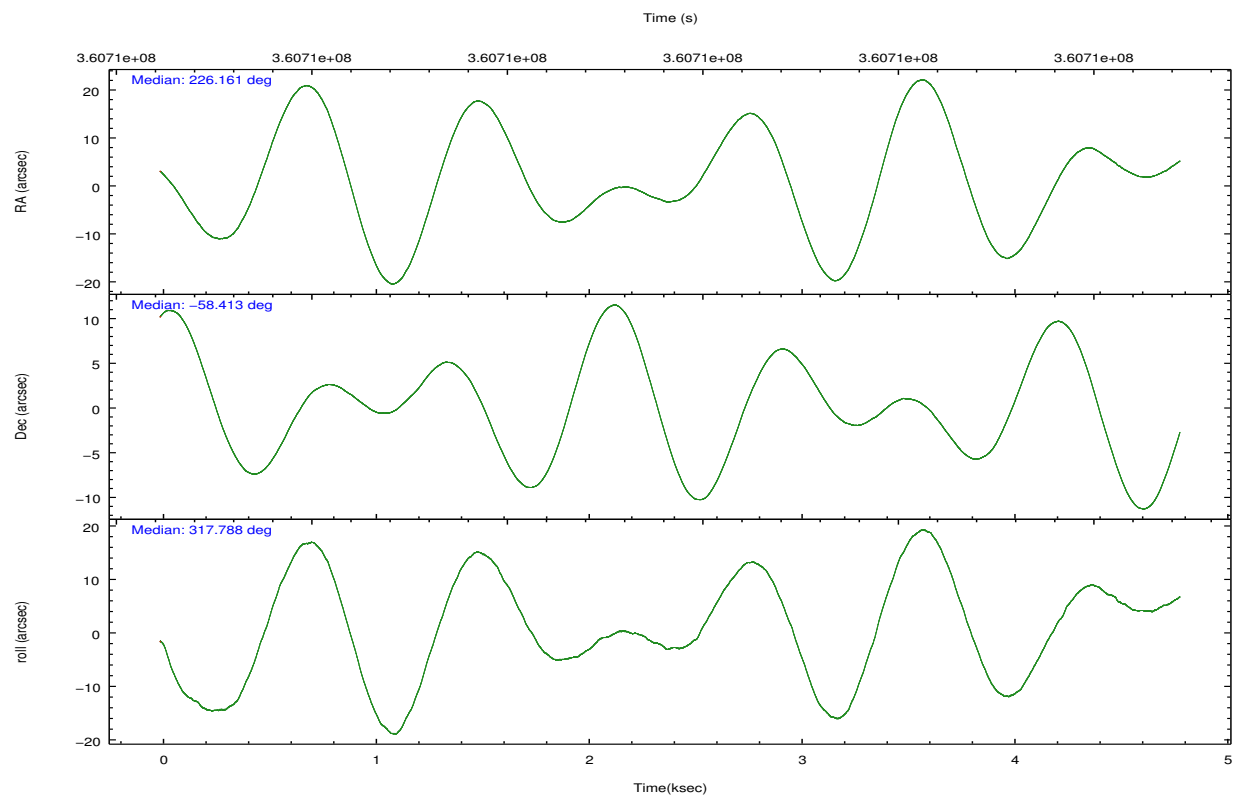


## 2.2 Compared Parameters

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	226.110033	226.1612006279679	CCD I2 on	O2	Y
[deg] Pointing Dec	-58.407461	-58.41290893964822	CCD I3 on	O3	Y
[deg] Pointing Roll	317.590116	317.7903355815579	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)	360708623.184000	360708074.52097	CCD S5 on	N	N
Observation start date	2009-06-06T20:49:17	2009-06-06T20:41:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	360713223.184000	360713466.53374	On-chip summing requested	N	N
Observation end date	2009-06-06T22:05:57	2009-06-06T22:11:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



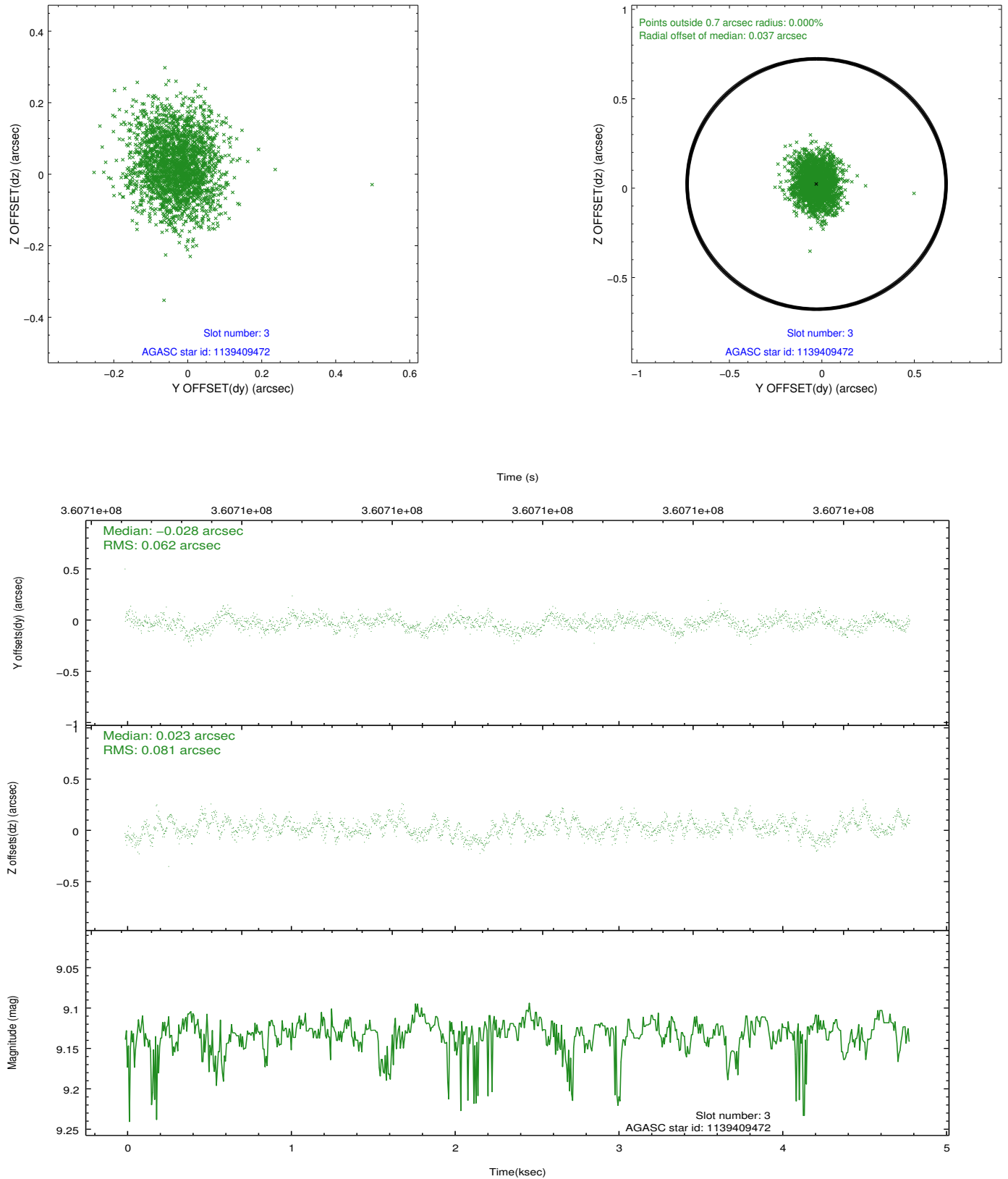


### Slot Statistics

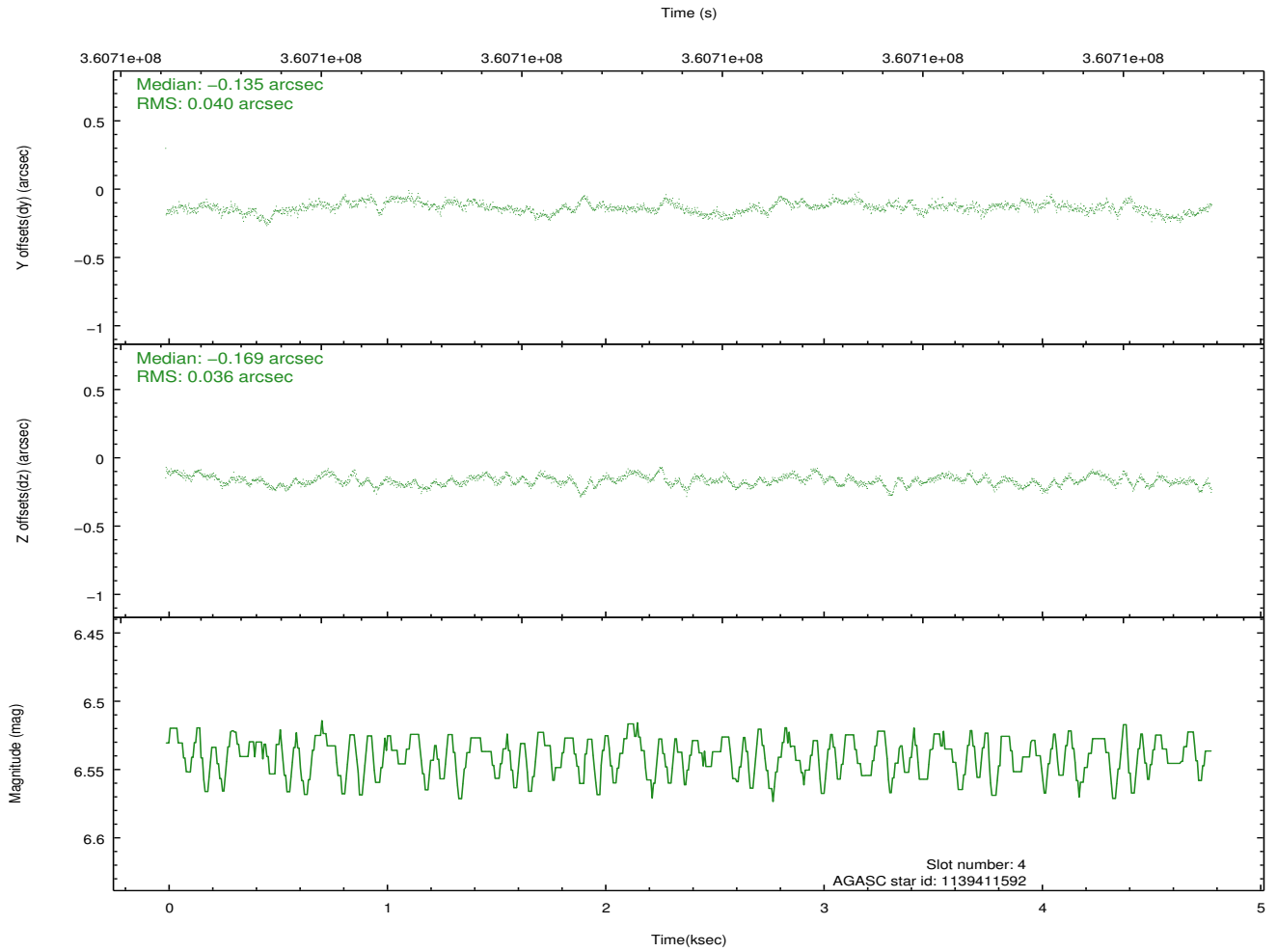
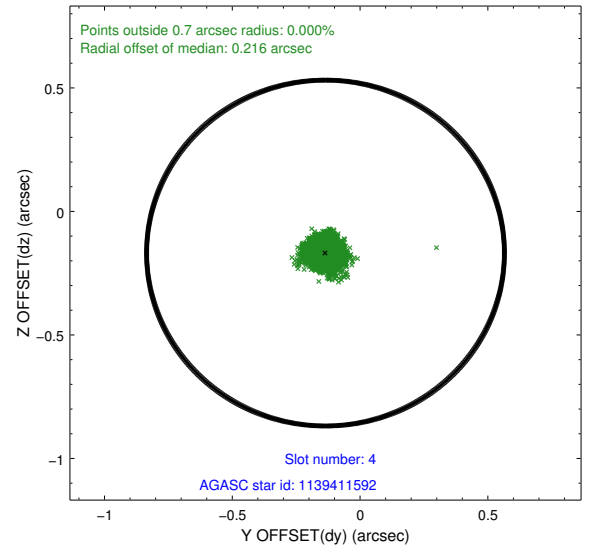
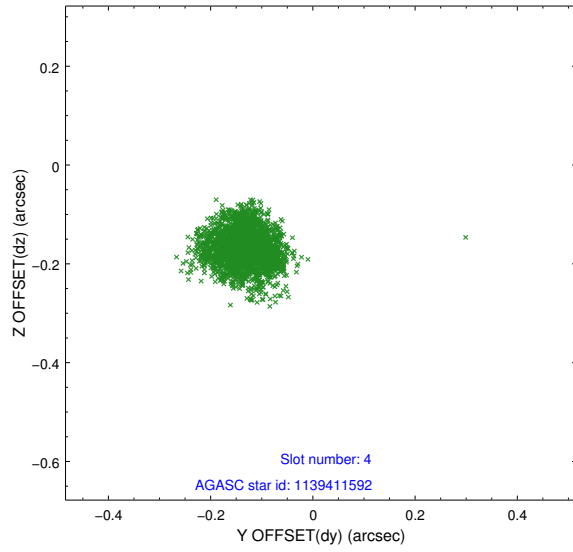
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	1169	-0.040	-0.071	0.007	0.010	0.000000	0.000000	-765.46	-1735.13
1	FID	ACIS-S-4	7.05	1169	0.178	0.038	0.007	0.013	0.000000	0.000000	2147.45	172.14
2	FID	ACIS-S-5	7.09	1169	-0.169	0.041	0.007	0.012	0.000000	0.000000	-1816.80	167.26
3	GUIDE	1139409472	9.13	2329	-0.028	0.023	0.106	0.177	225.394355	-58.966324	381.32	-2385.90
4	GUIDE	1139411592	6.54	2338	-0.135	-0.169	0.058	0.087	225.067680	-58.306316	-1690.50	-1073.01
5	GUIDE	1139412752	8.89	2337	0.059	0.116	0.082	0.130	224.702261	-58.484539	-1750.38	-2012.10
6	GUIDE	1141120752	8.95	2326	0.011	-0.091	0.089	0.142	226.972418	-58.548951	1546.06	708.08
7	GUIDE	1141118072	9.79	2330	0.094	0.115	0.119	0.202	227.226236	-58.609308	2048.09	862.53

## 2.4 Star Slots

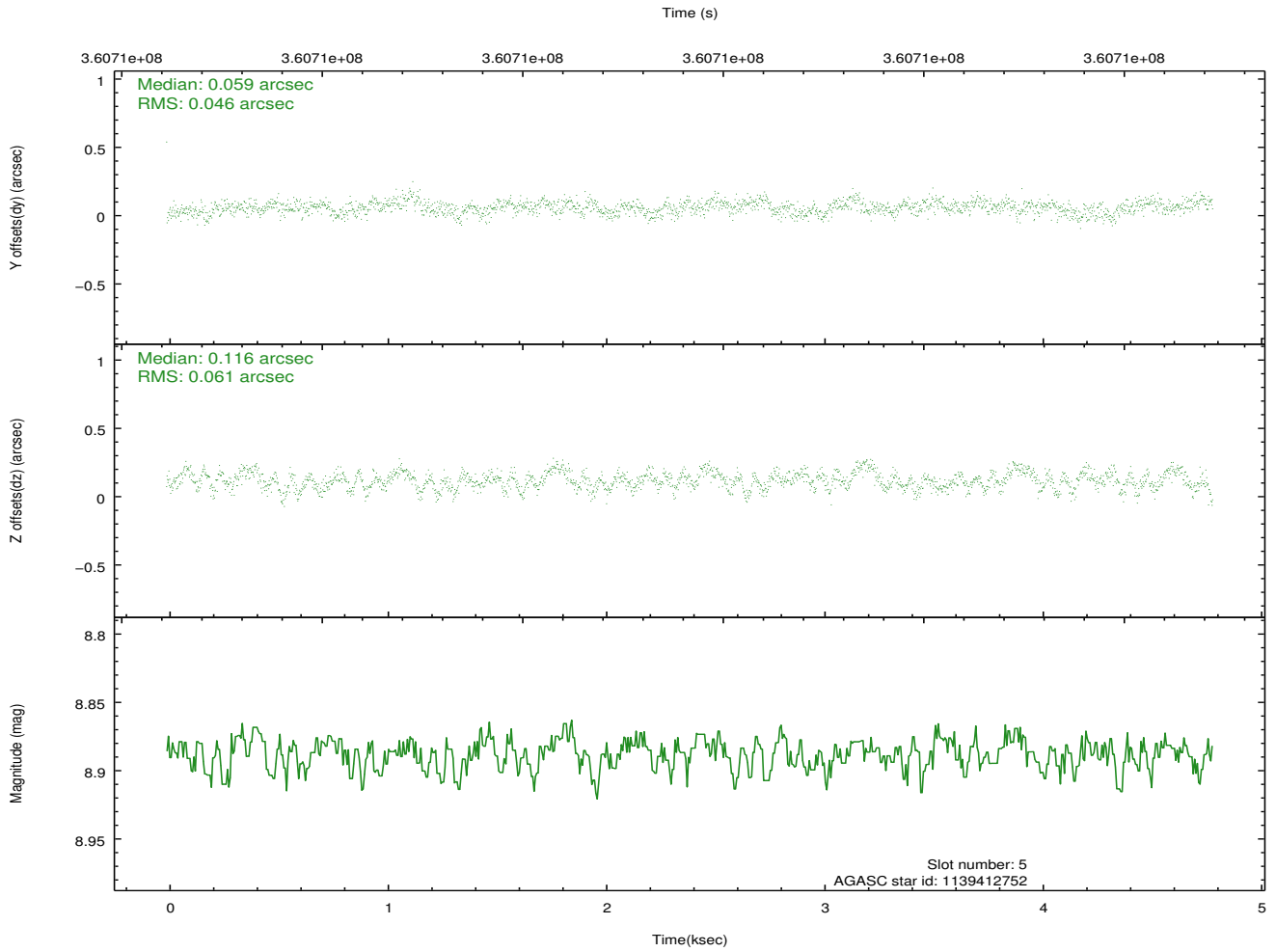
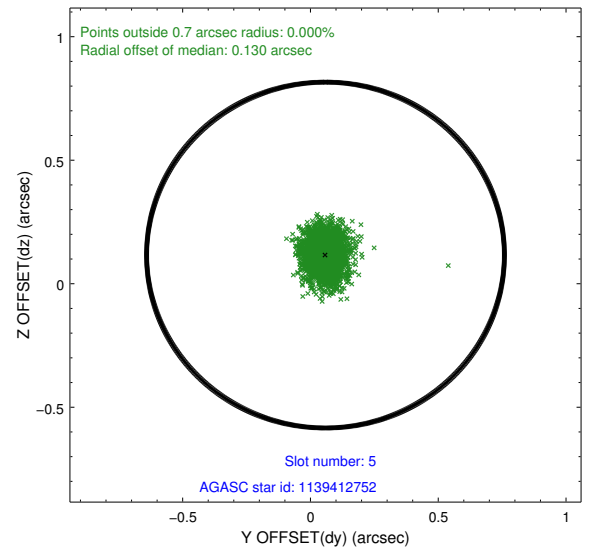
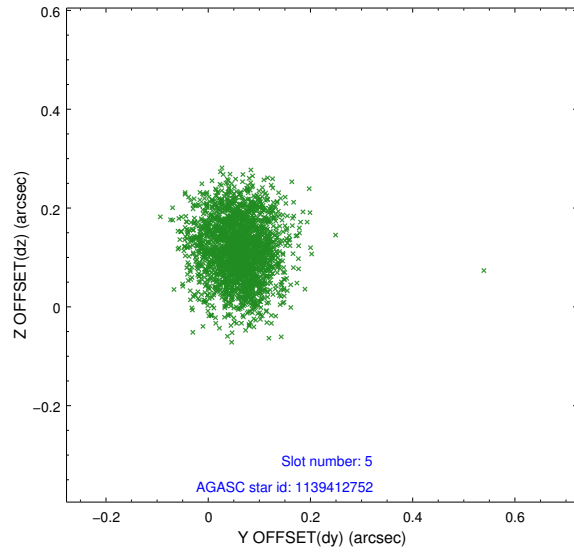
### 2.4.1 Slot 3



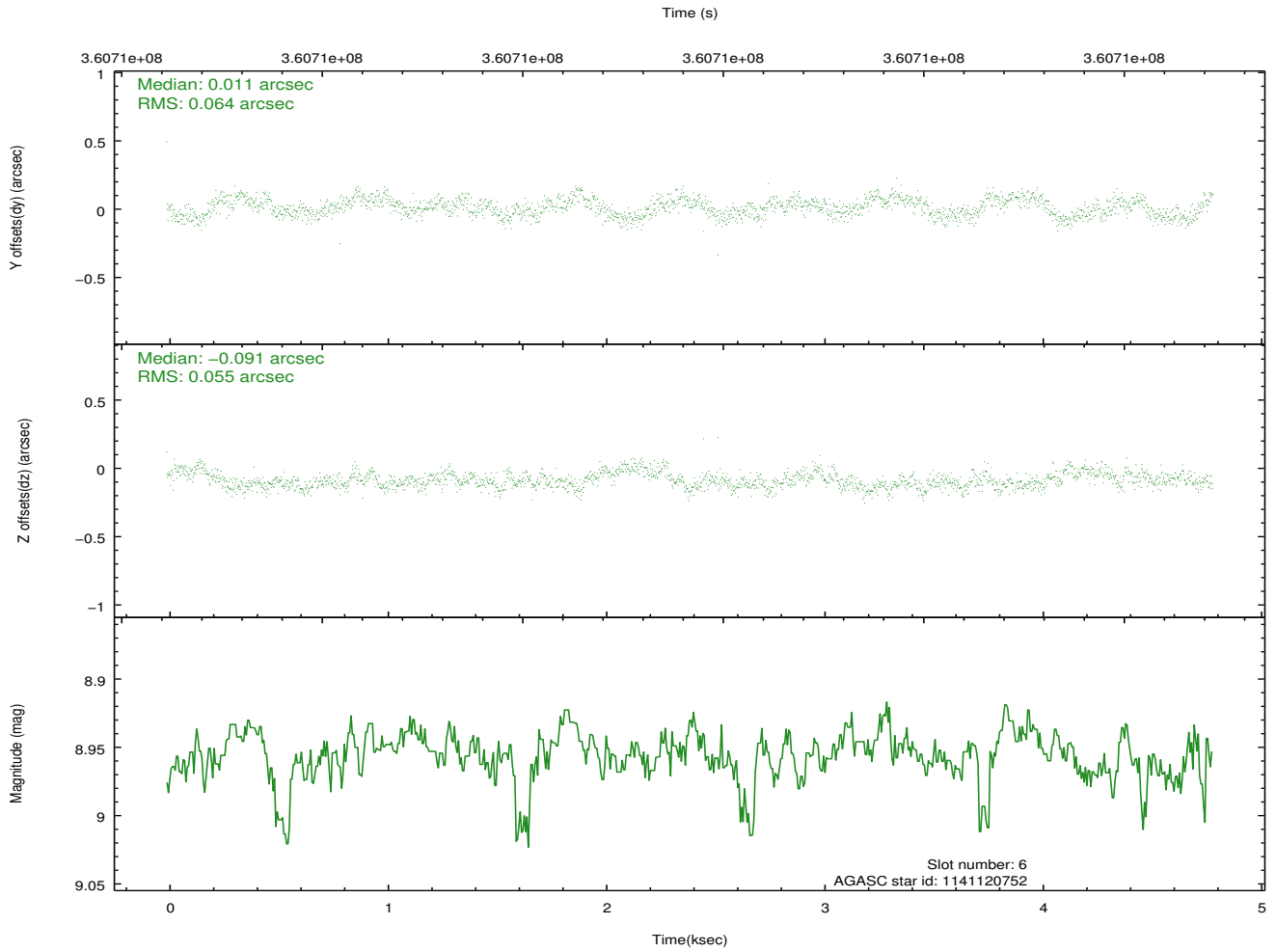
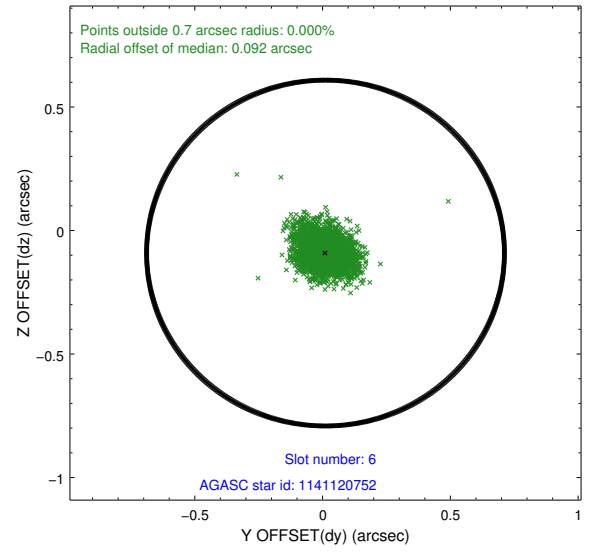
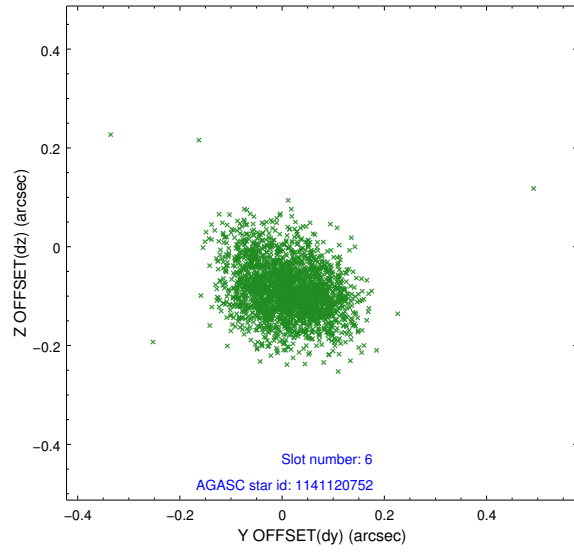
## 2.4.2 Slot 4



### 2.4.3 Slot 5

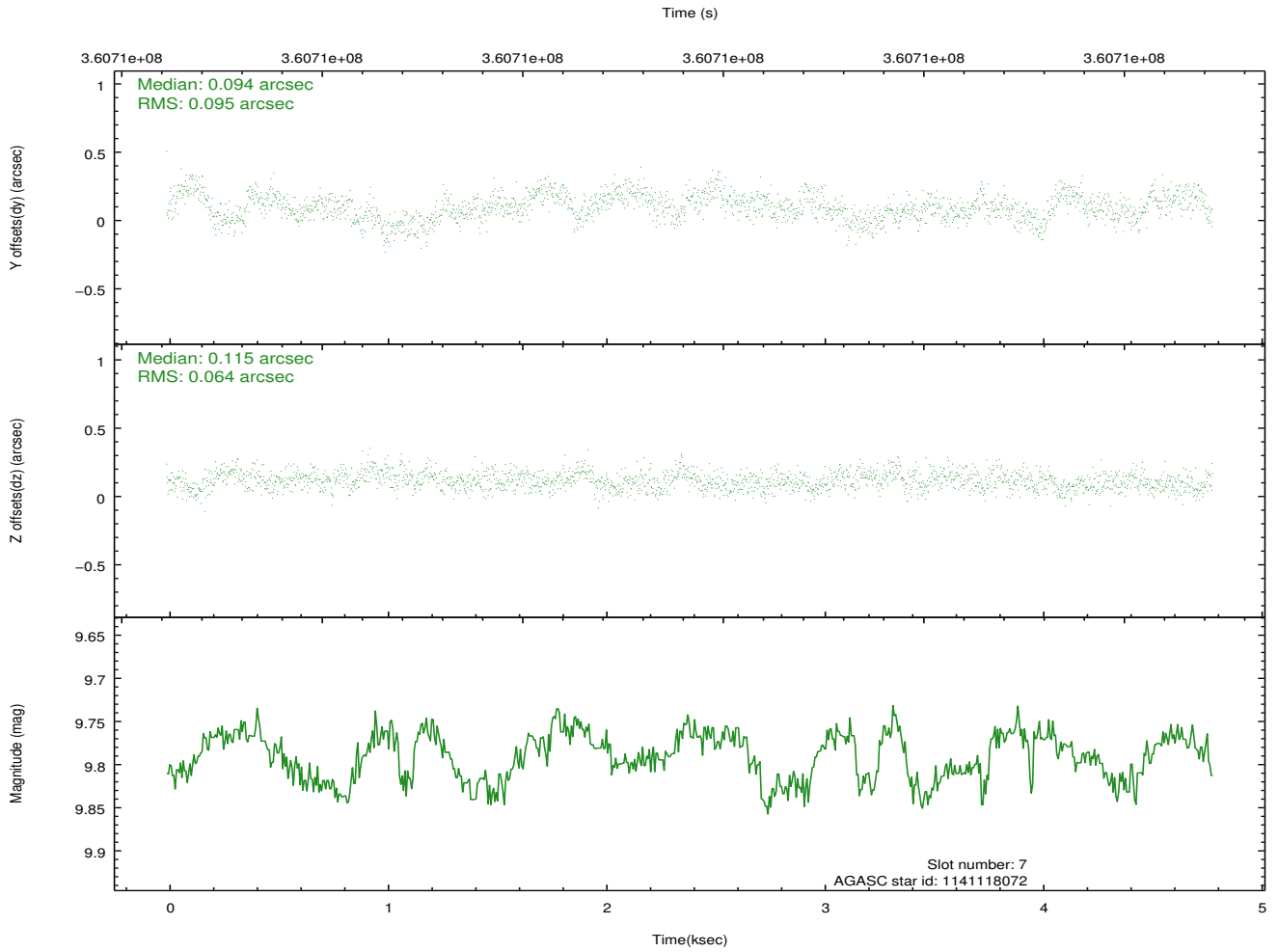
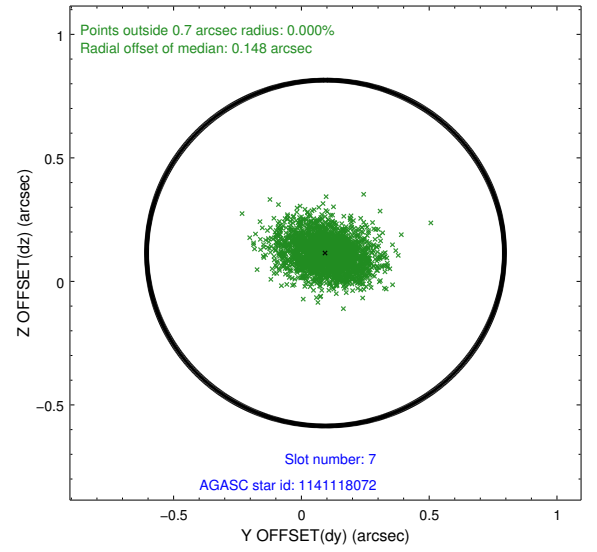
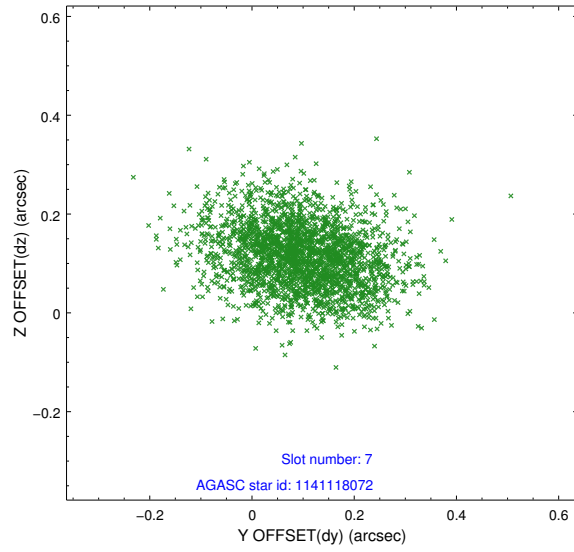


## 2.4.4 Slot 6



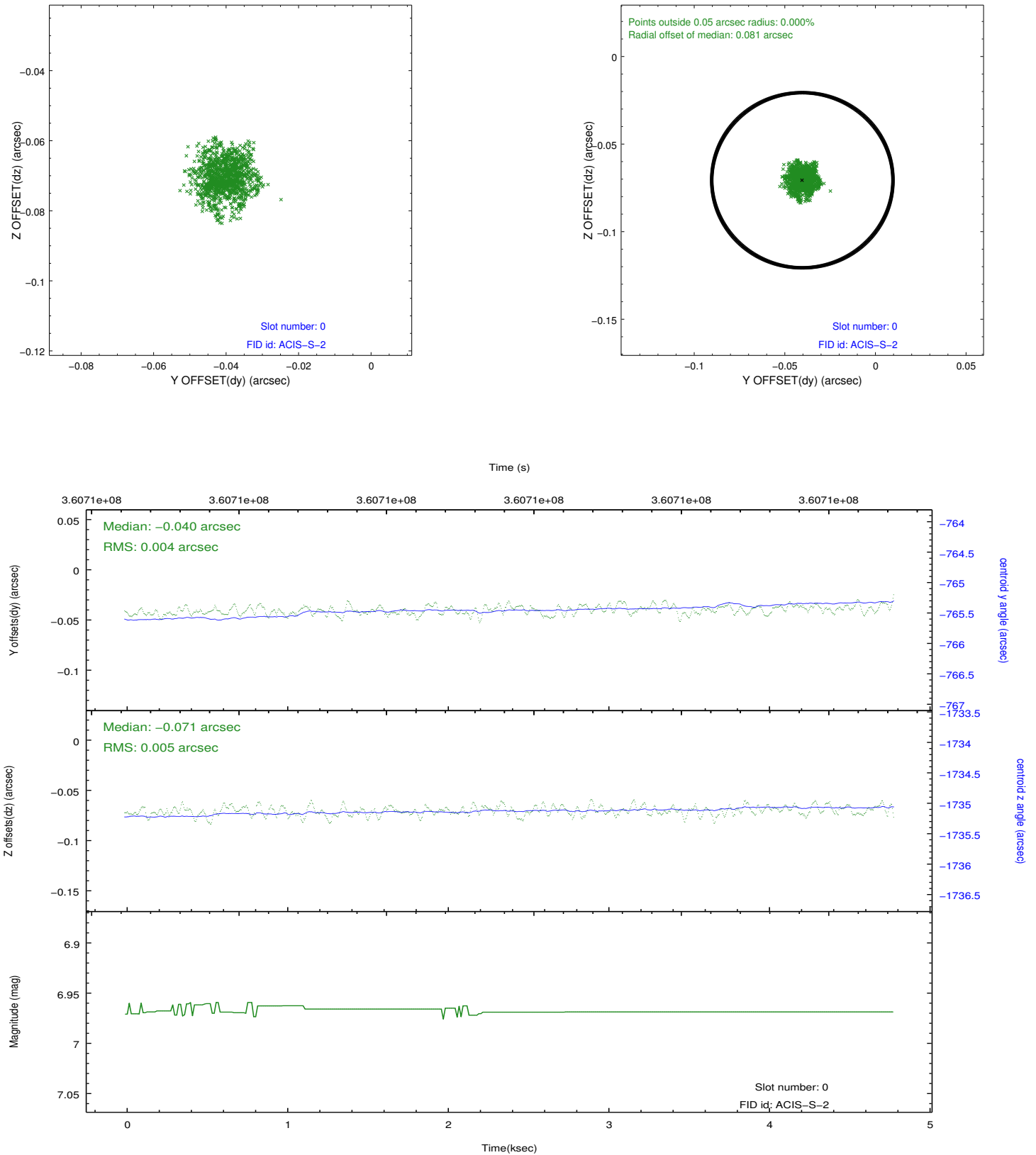


## 2.4.5 Slot 7

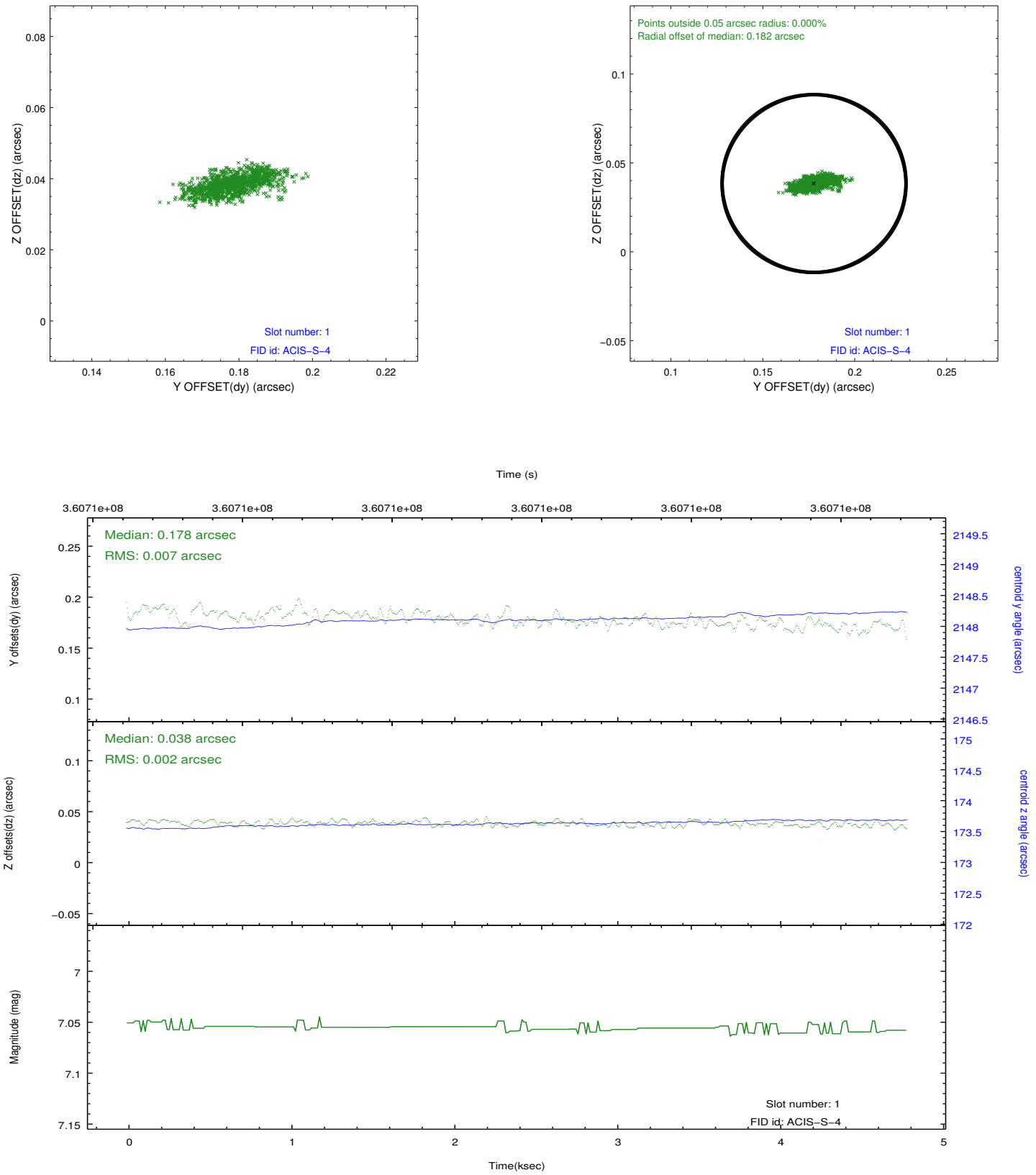


## 2.5 FID Slots

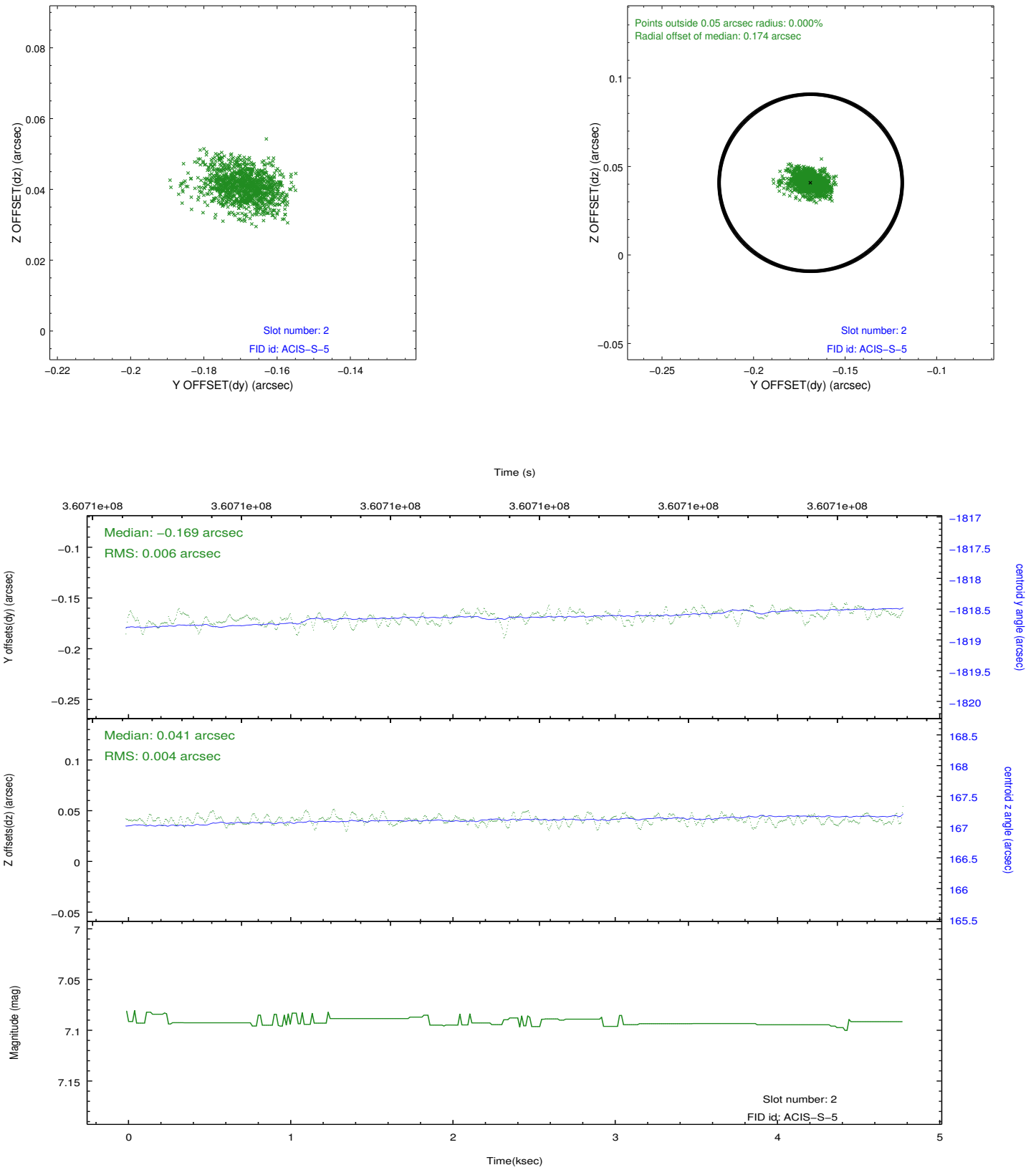
### 2.5.1 Slot 0



## 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)	2012.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.35519998

### A.2 Comments