

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12728 - L2 Version 2  
Chandra X-Ray Center

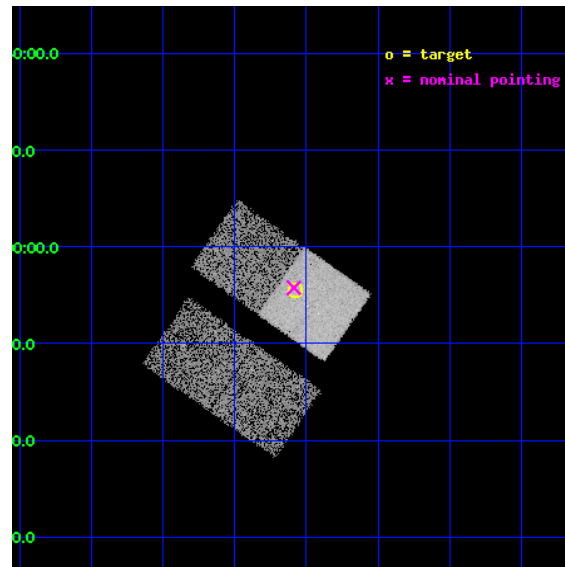
L2 Processing Date : Jul 8 2012

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# 1 Front

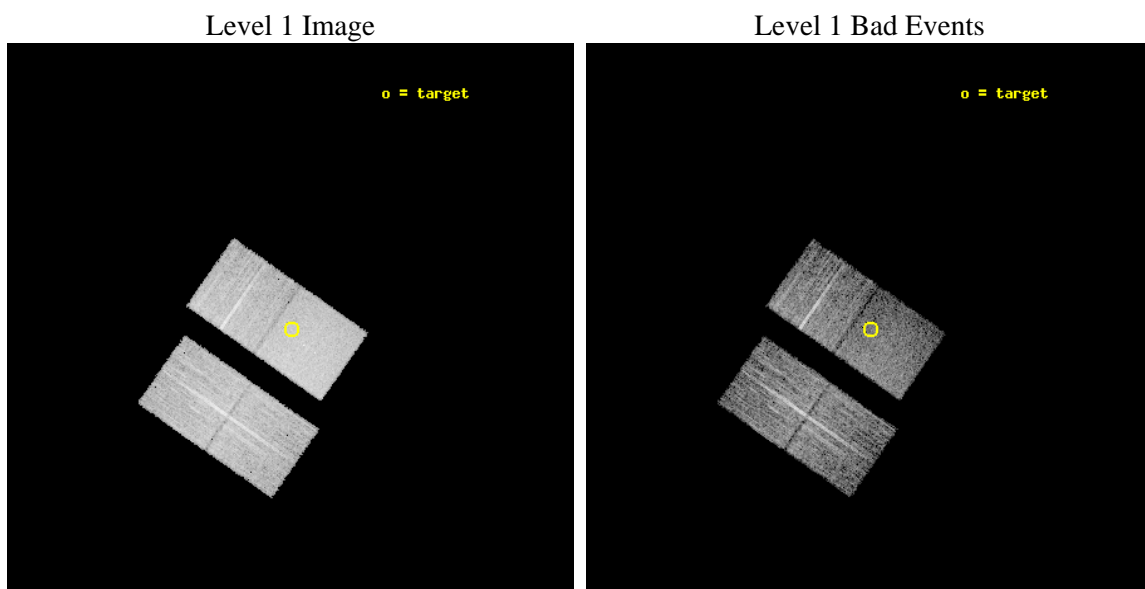
seq_num	702364	Sequence number
obs_id	12728	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 180	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	111.77	Observer's specified target RA [deg]
dec_targ	-2.075278	Observer's specified target Dec [deg]
ra_nom	111.771899415	Nominal RA [deg]
dec_nom	-2.0707411447633	Nominal Dec [deg]
roll_nom	34.942909113744	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8056.332075417	Sum of GTIs [s]
livetime	7951.0701658663	Livetime [s]
ontime2	8056.2089554071	Sum of GTIs [s]
ontime3	8056.2499954104	Sum of GTIs [s]
ontime6	8056.2910354137	Sum of GTIs [s]
ontime7	8056.332075417	Sum of GTIs [s]
l2events	46730	Number of level 2 events



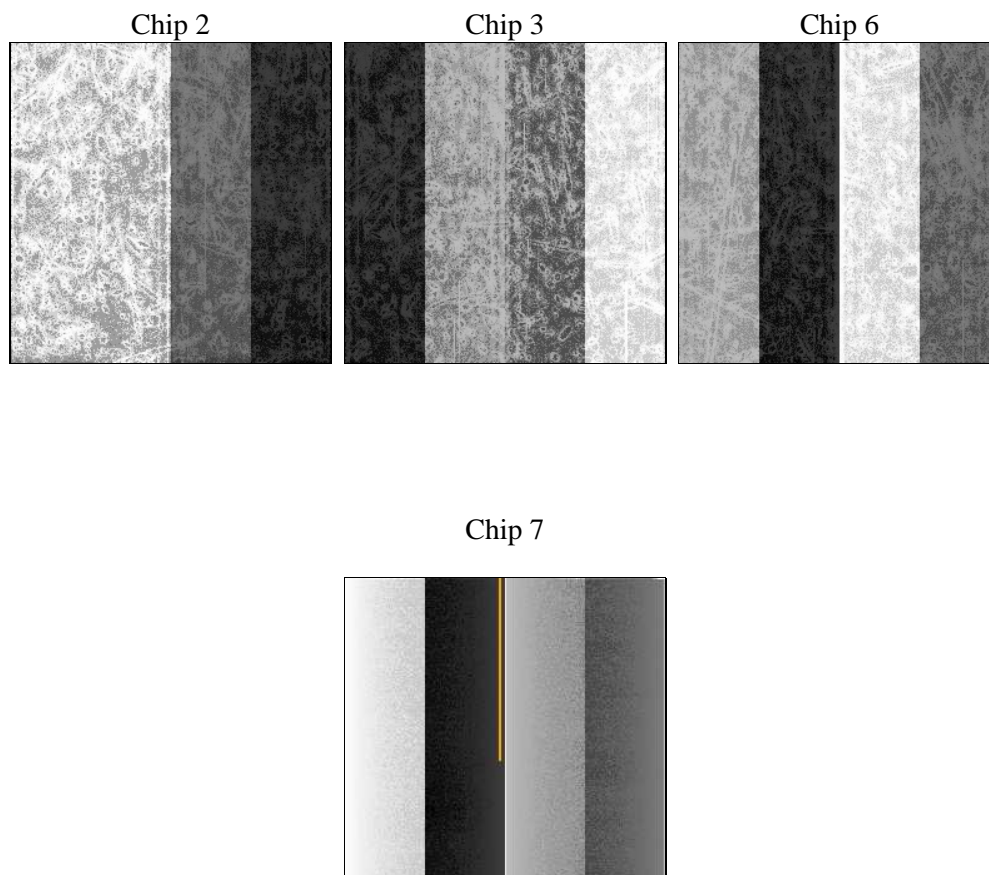
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8056.332075417	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	8056.2089554071	Sum of GTIs [s]
date	2012-07-08T19:28:41	Date and time of file creation	ontime3	8056.2499954104	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8056.2910354137	Sum of GTIs [s]
			ontime7	8056.332075417	Sum of GTIs [s]
			l1events	234406	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	56428	51927	55473	70578
rejected events	50334	46234	48921	38760
rejected %	89%	89%	88%	54%

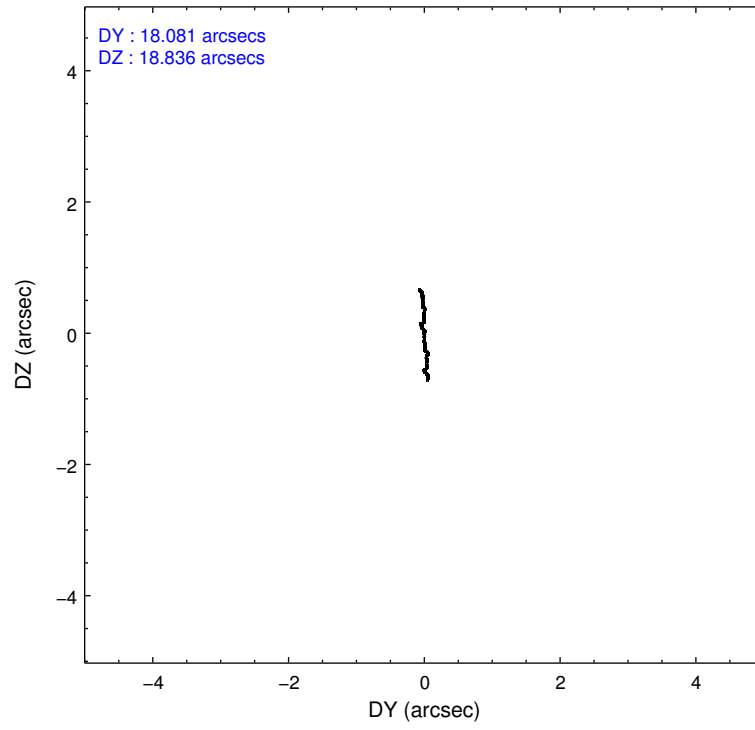
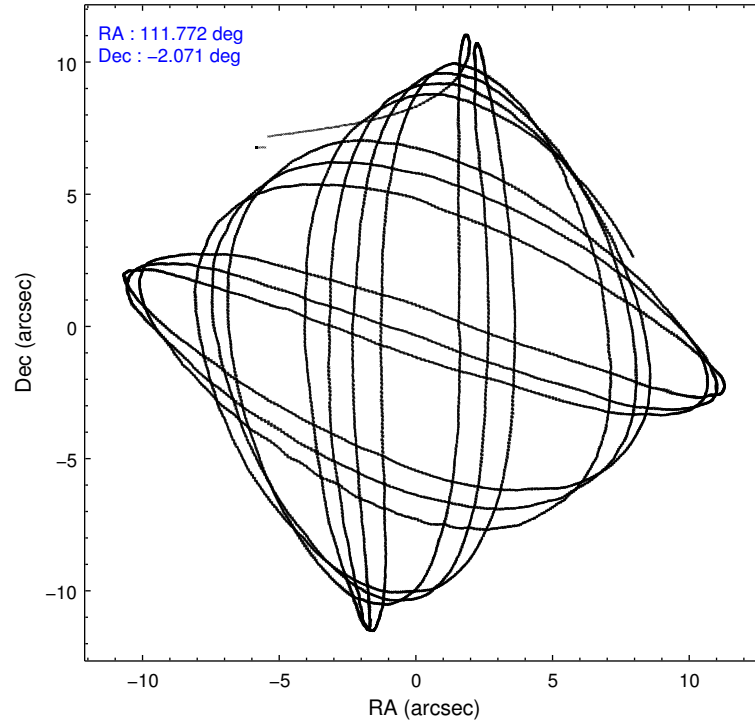
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2113	1941	2299	2939
	3%	3%	4%	4%
grade 1 events	38	35	23	83
	0%	0%	0%	0%
grade 2 events	1491	1313	1528	6426
	2%	2%	2%	9%
grade 3 events	667	656	657	2765
	1%	1%	1%	3%
grade 4 events	661	629	654	2878
	1%	1%	1%	4%
grade 5 events	2180	2598	2648	7265
	3%	5%	4%	10%
grade 6 events	1165	1155	1416	16823
	2%	2%	2%	23%
grade 7 events	48113	43600	46248	31399
	85%	83%	83%	44%

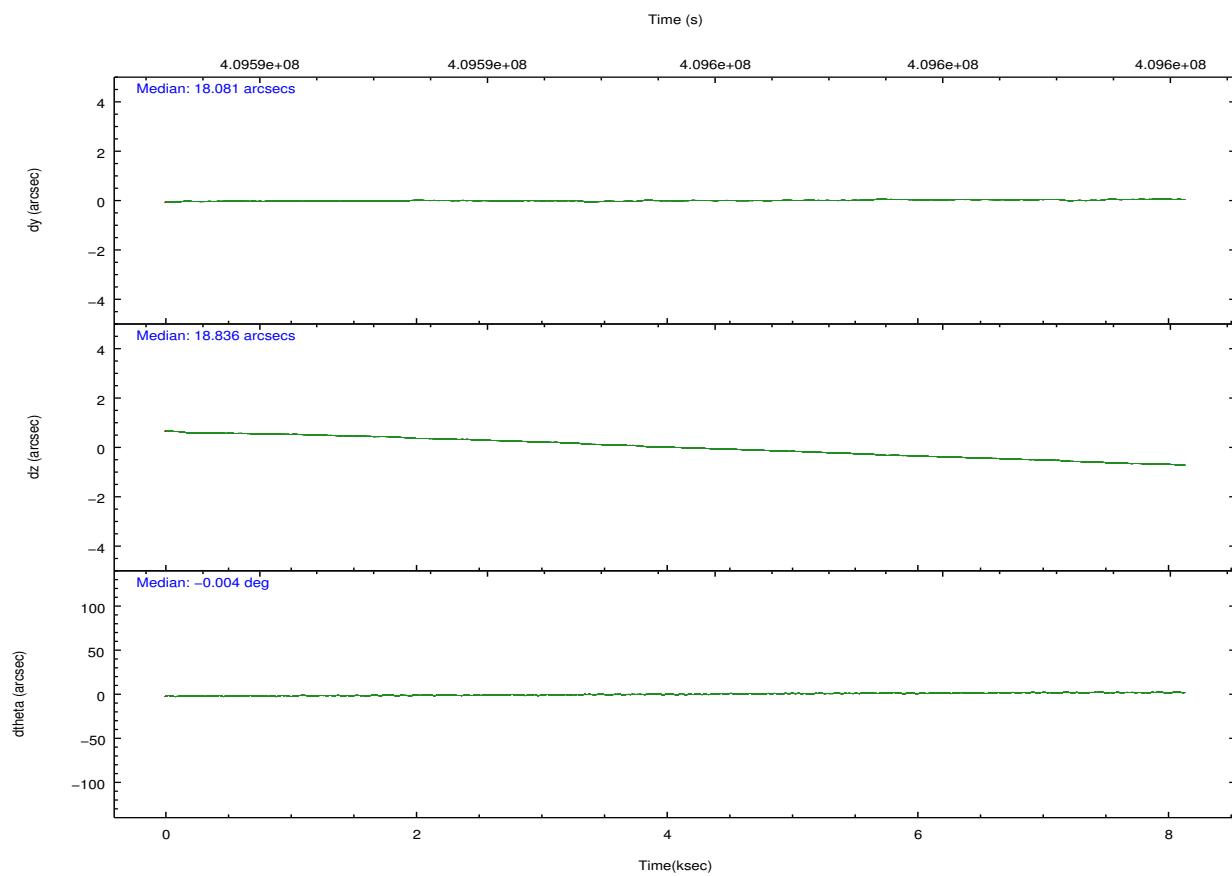
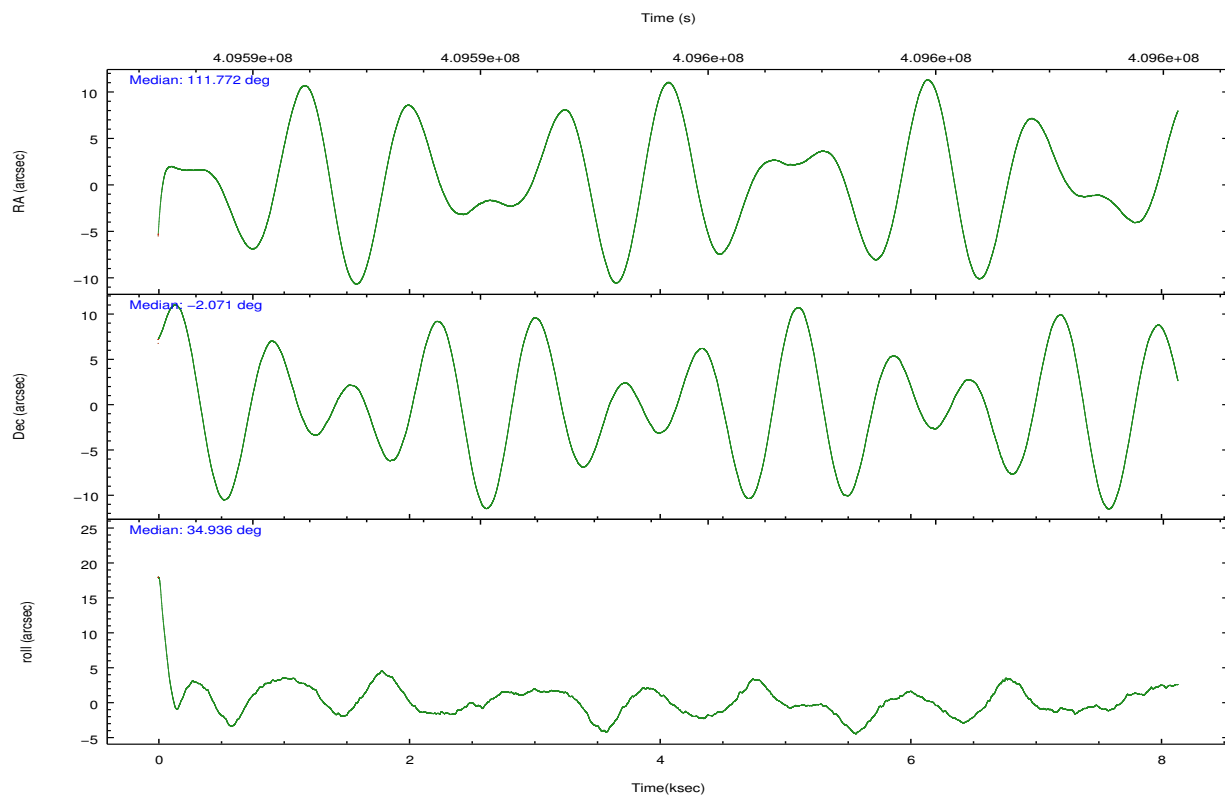


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	111.760678	111.7718994150022	CCD I2 on	O1	Y
[deg] Pointing Dec	-2.095748	-2.070741144763324	CCD I3 on	O2	Y
[deg] Pointing Roll	34.785854	34.94290911374379	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	N	N
[s] Observation start time (MET)	409591715.184000	409590509.45221	CCD S5 on	N	N
Observation start date	2010-12-24T15:27:29	2010-12-24T15:08:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	409599715.184000	409601006.47775	On-chip summing requested	N	N
Observation end date	2010-12-24T17:40:49	2010-12-24T18:03:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



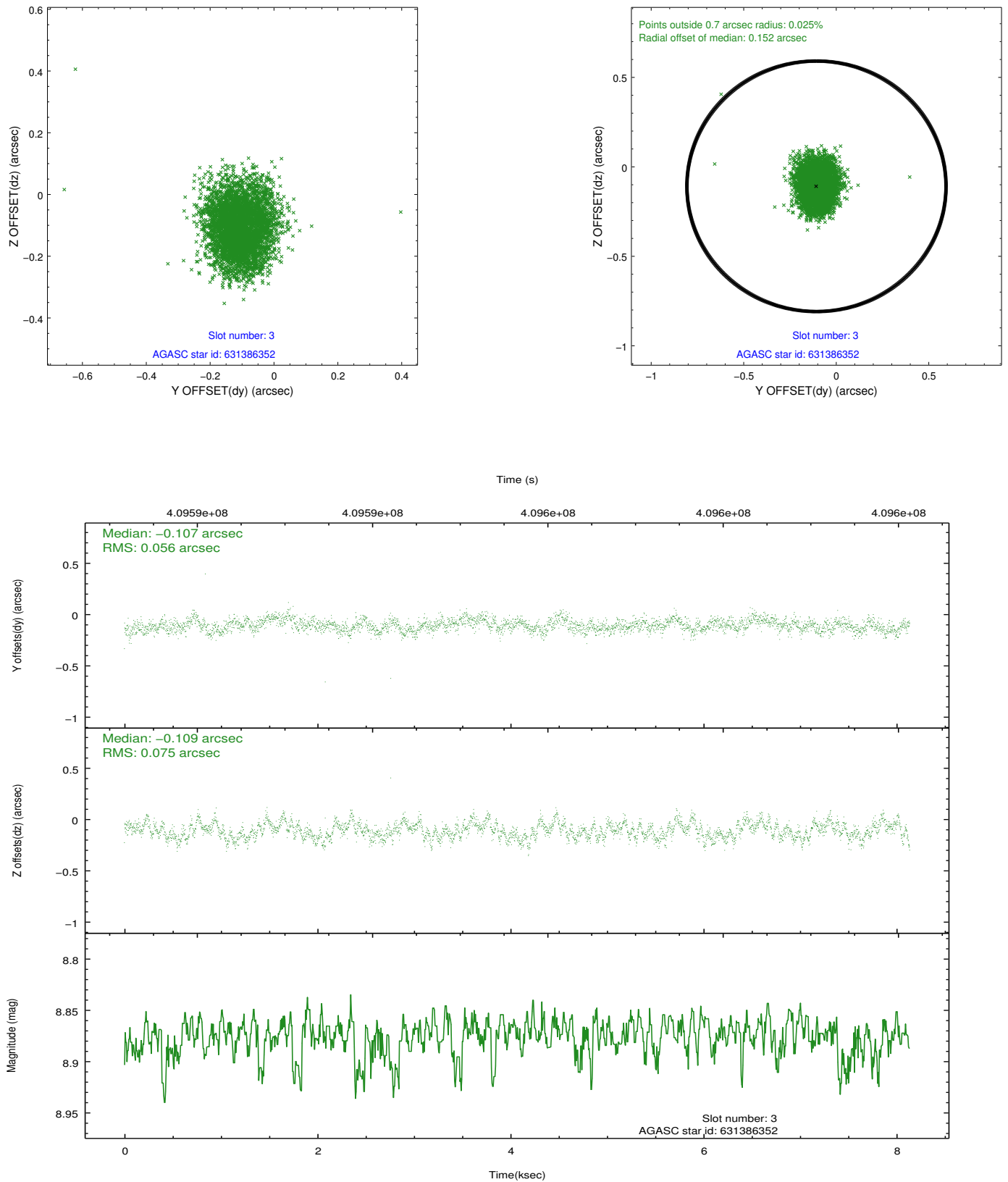


### Slot Statistics

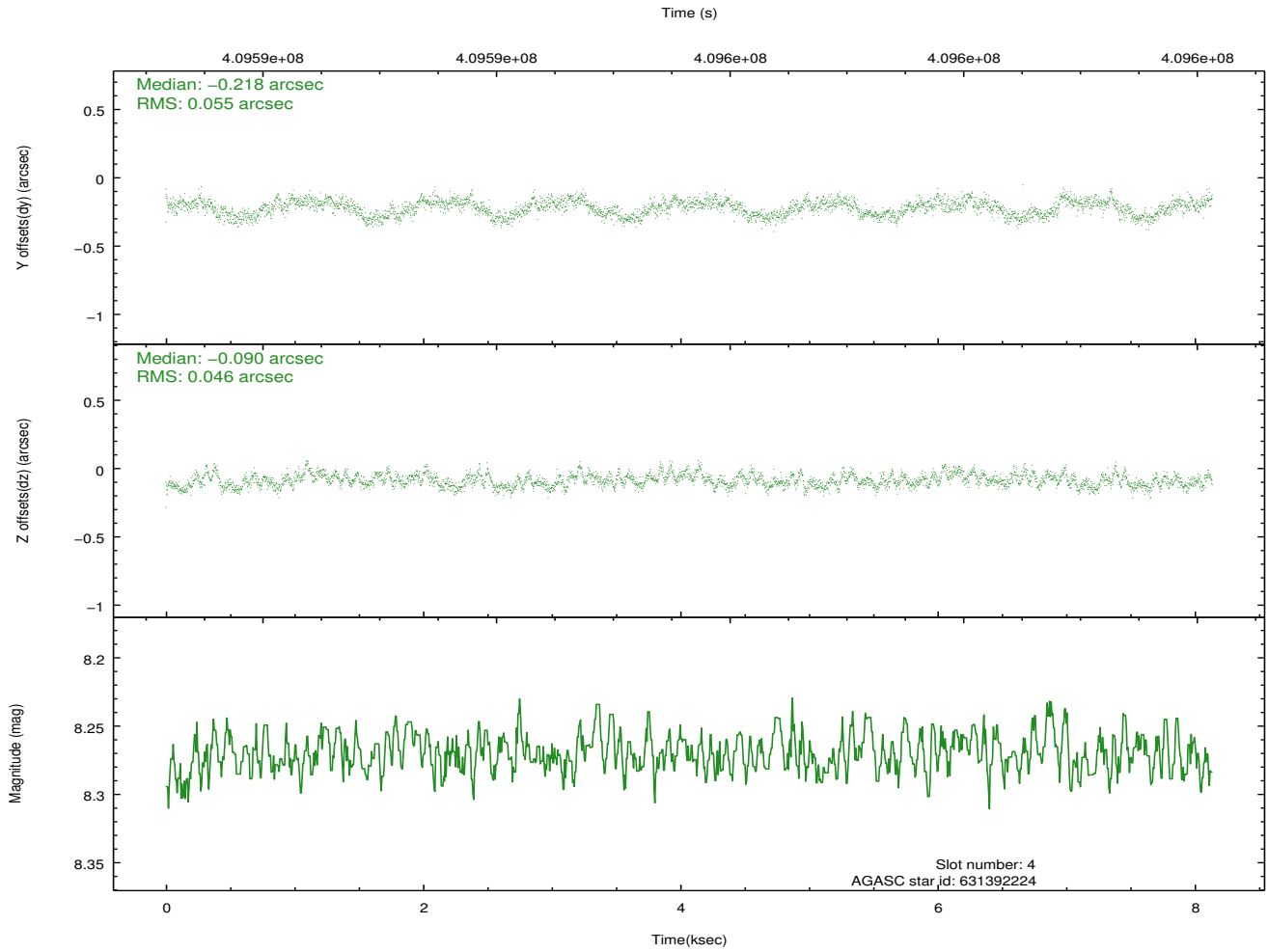
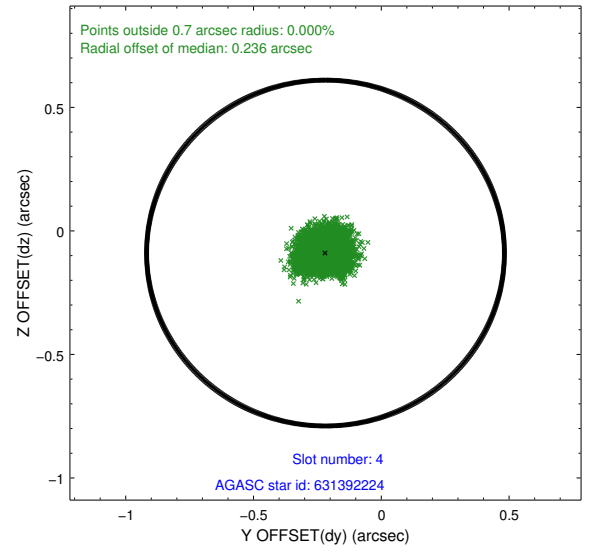
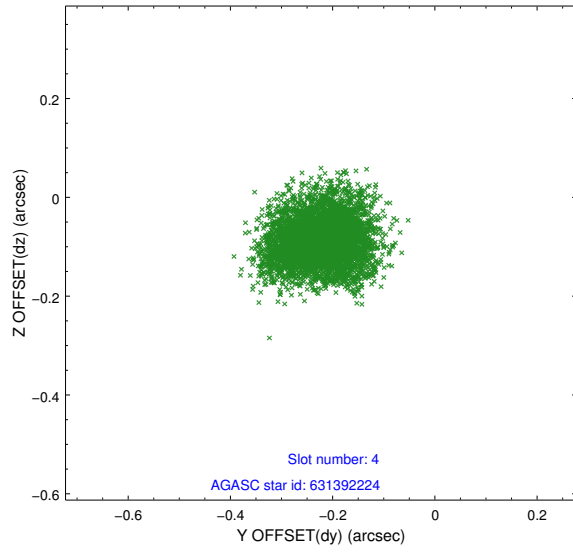
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	1985	-0.077	-0.047	0.012	0.019	0.000000	0.000000	-771.23	-1740.36
1	FID	ACIS-S-4	6.98	1983	0.210	0.049	0.006	0.011	0.000000	0.000000	2142.03	167.48
2	FID	ACIS-S-5	7.01	1985	-0.165	0.007	0.012	0.019	0.000000	0.000000	-1823.26	161.93
3	GUIDE	631386352	8.87	3962	-0.107	-0.109	0.098	0.160	111.740483	-1.611272	935.30	1473.58
4	GUIDE	631392224	8.27	3970	-0.218	-0.090	0.077	0.120	112.027544	-1.643163	1718.34	790.40
5	GUIDE	631901440	9.33	3970	0.116	-0.039	0.100	0.165	111.425342	-1.901388	-591.21	1262.68
6	GUIDE	631904288	9.27	3966	0.151	0.296	0.107	0.172	111.987156	-2.560711	-285.60	-1839.20
7	GUIDE	631387792	9.32	3961	0.061	-0.061	0.096	0.156	111.999832	-1.654745	1612.57	812.47

## 2.4 Star Slots

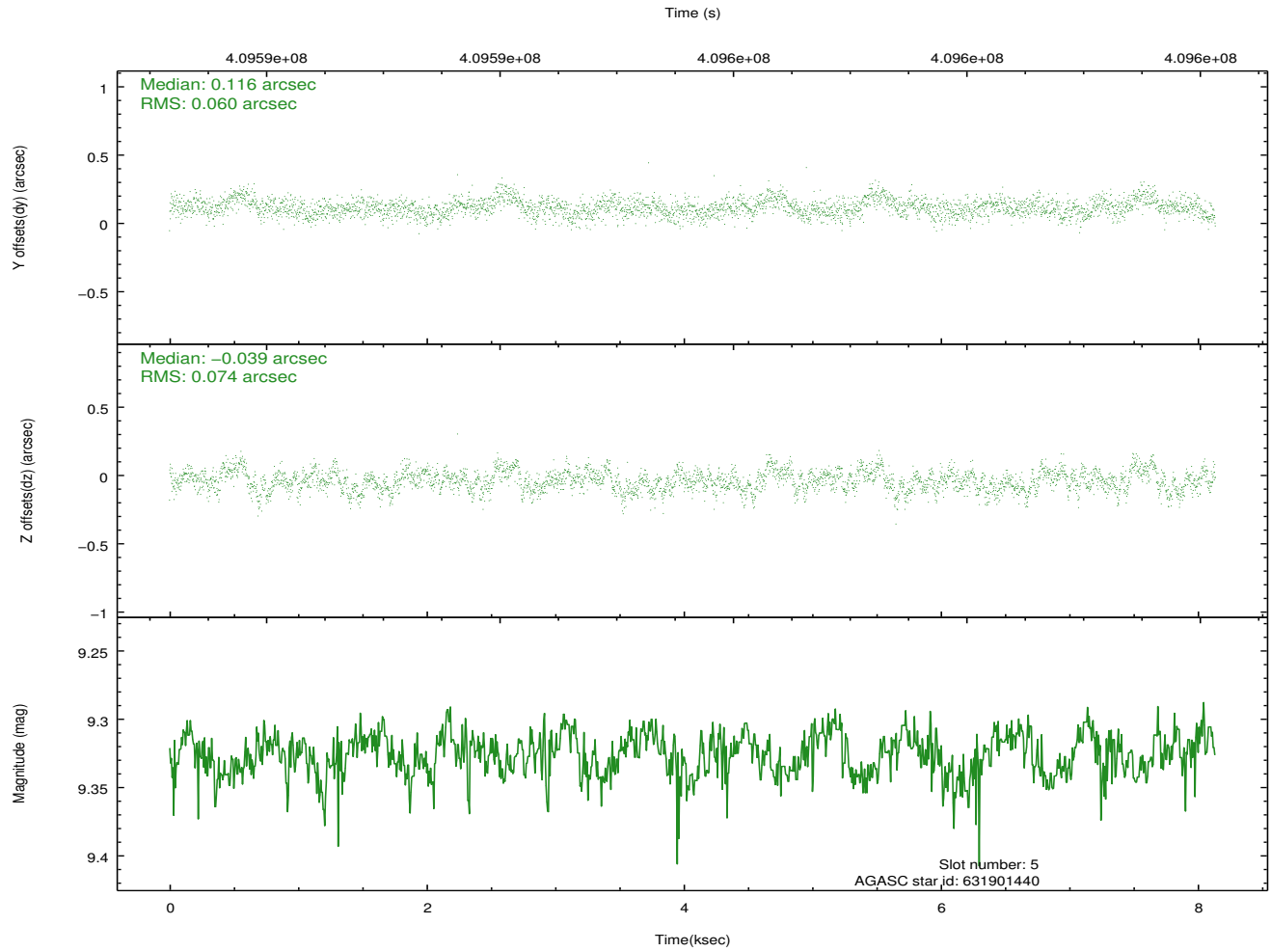
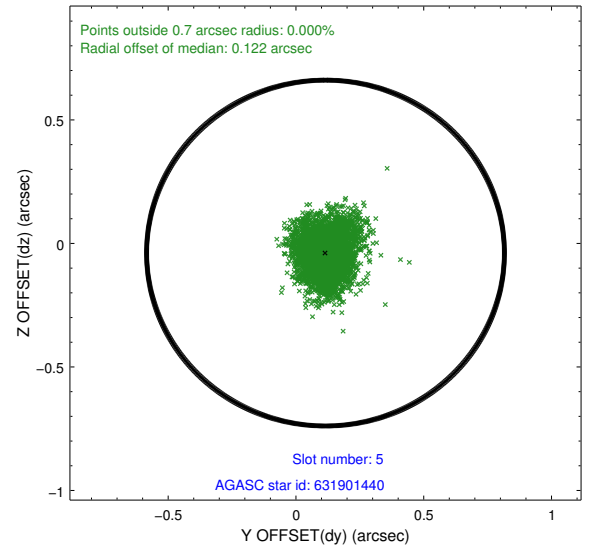
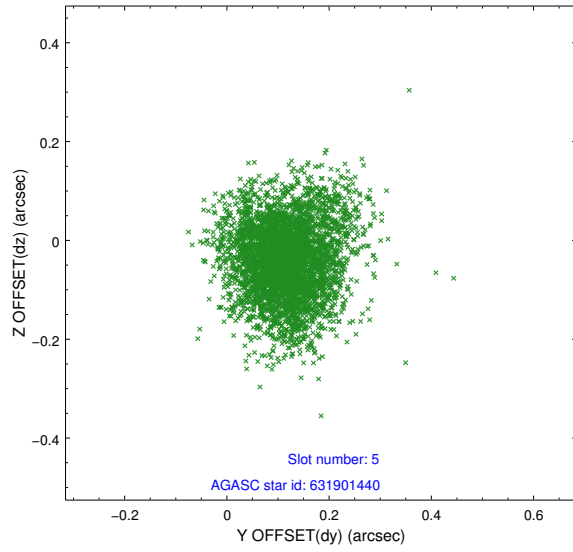
### 2.4.1 Slot 3



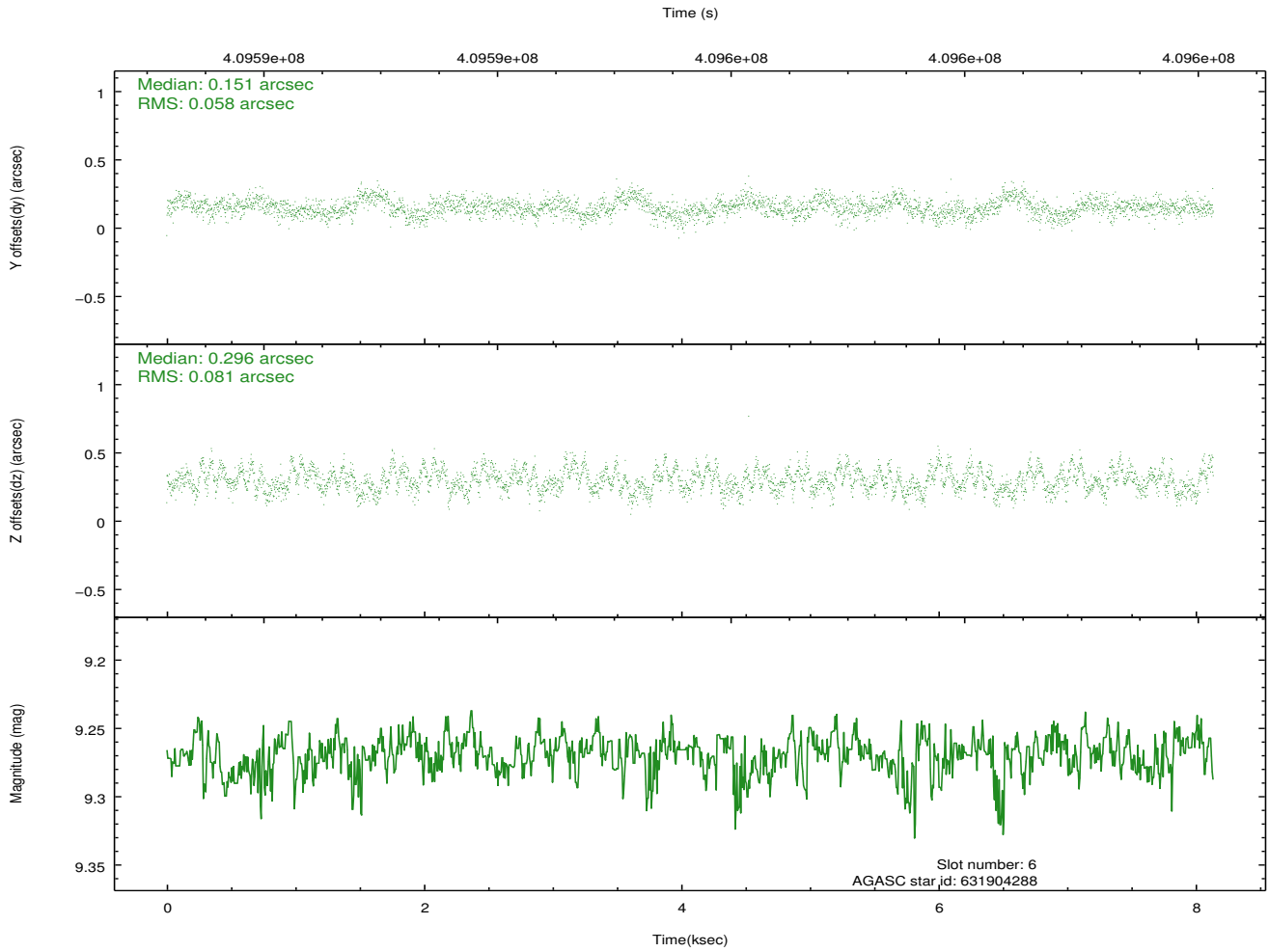
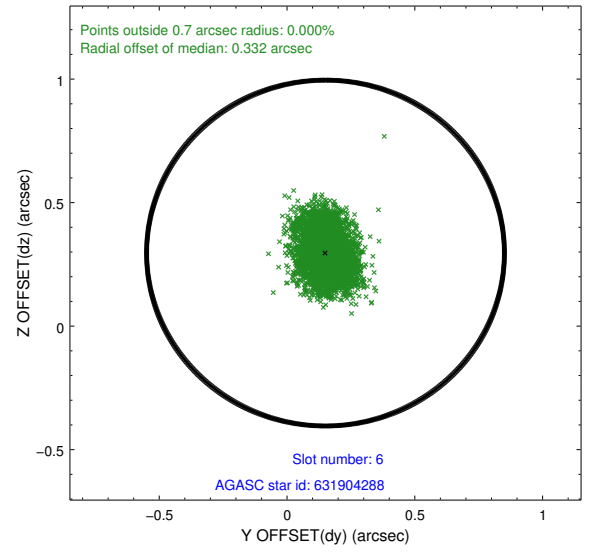
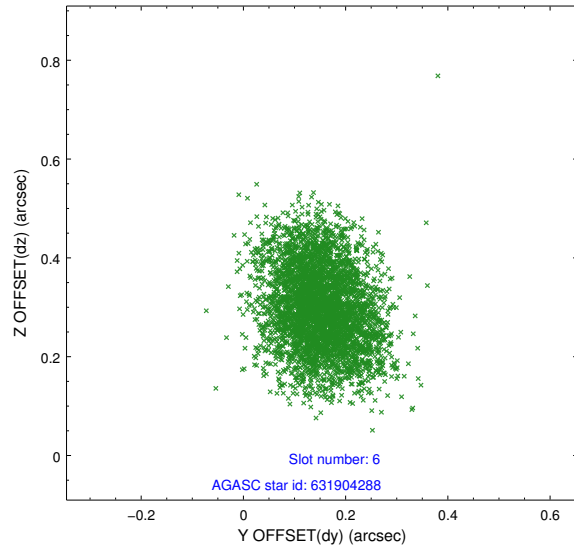
## 2.4.2 Slot 4



### 2.4.3 Slot 5

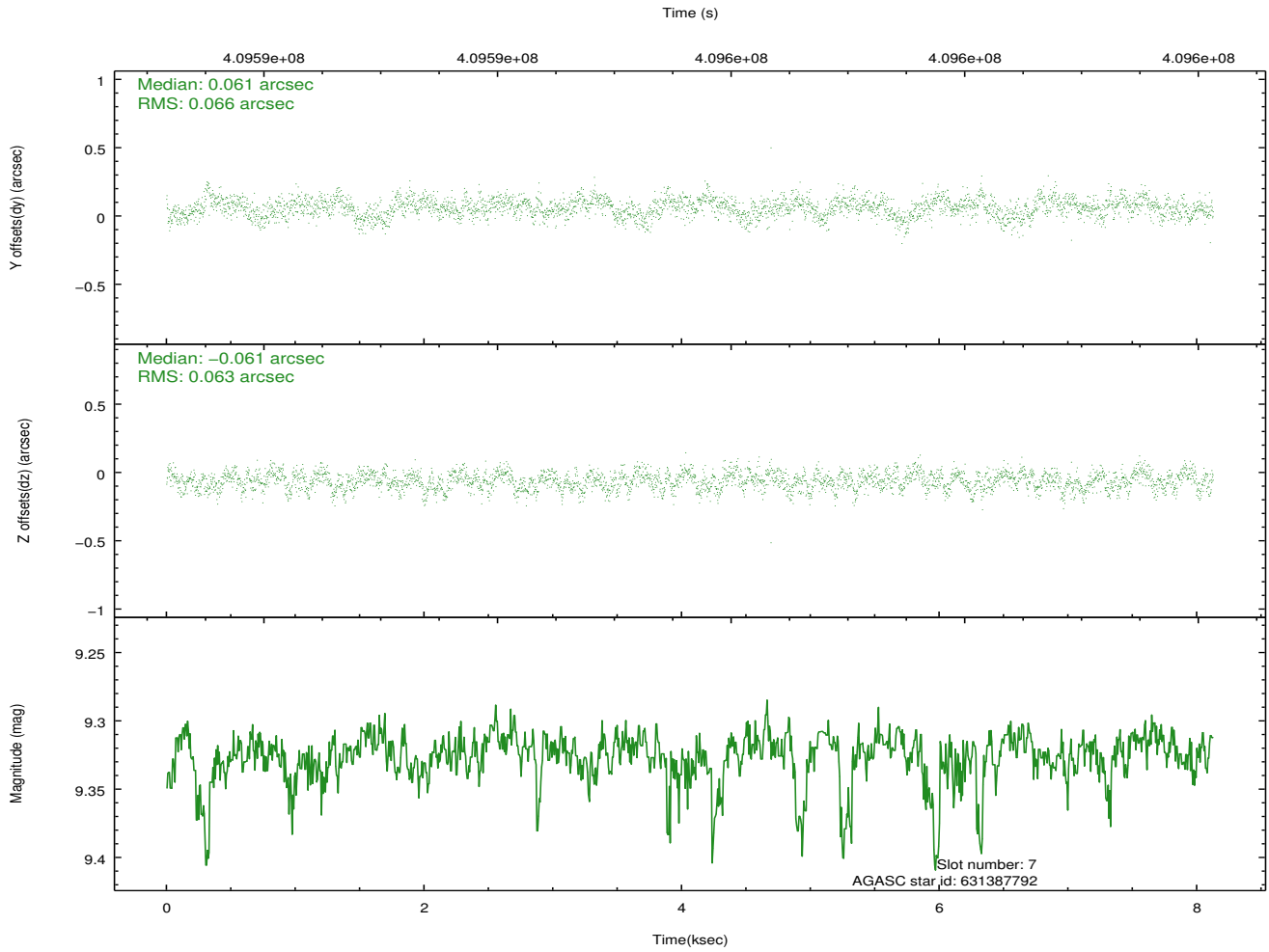
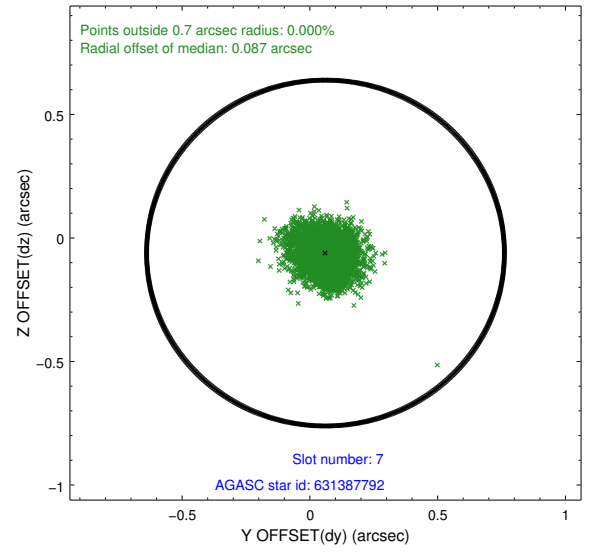
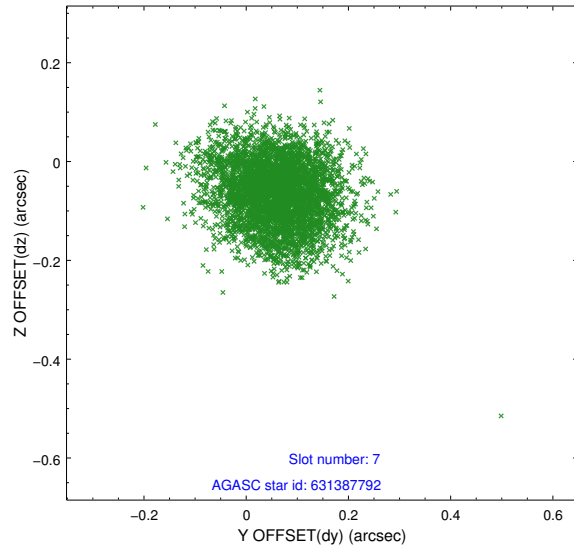


## 2.4.4 Slot 6



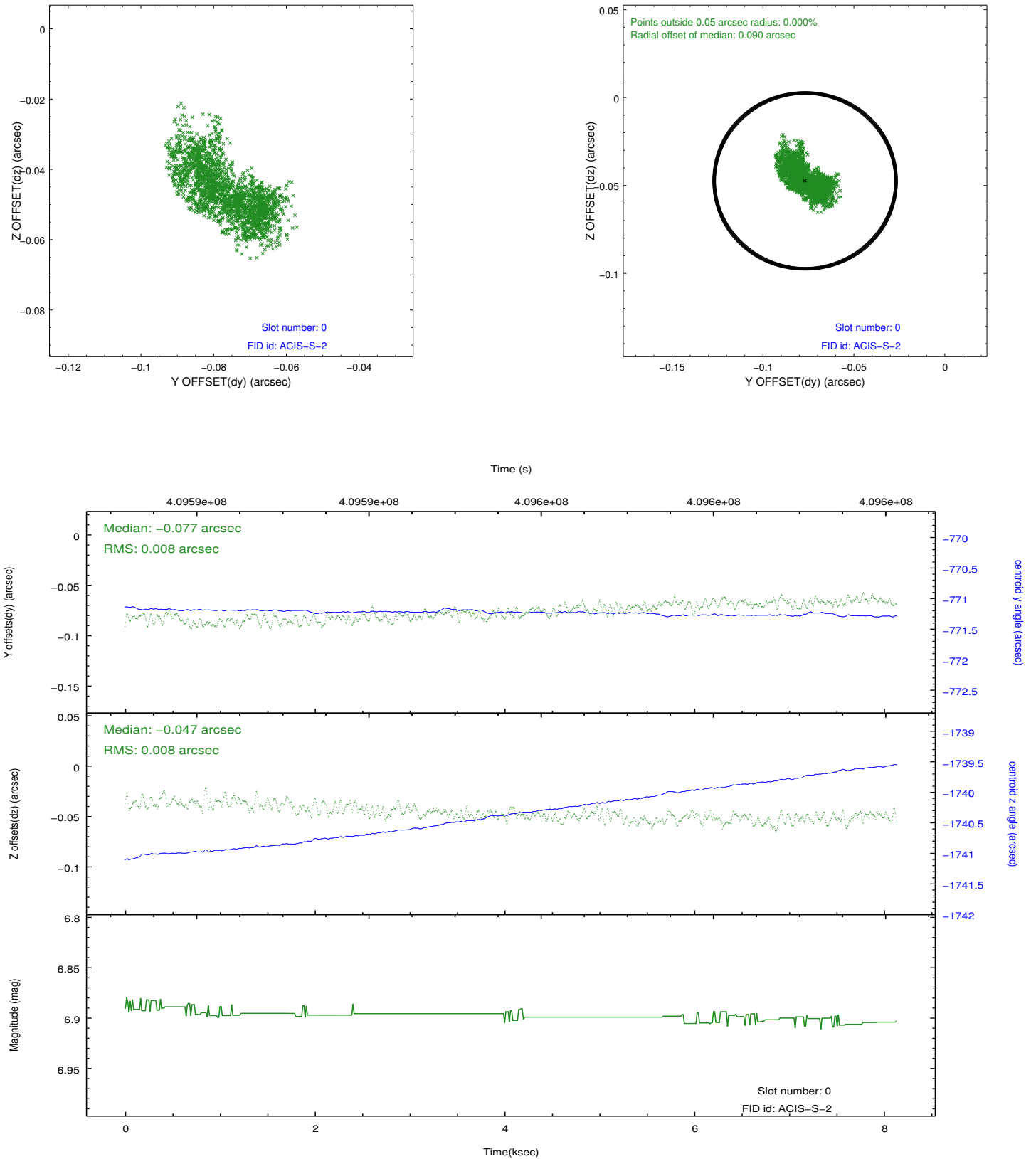


## 2.4.5 Slot 7

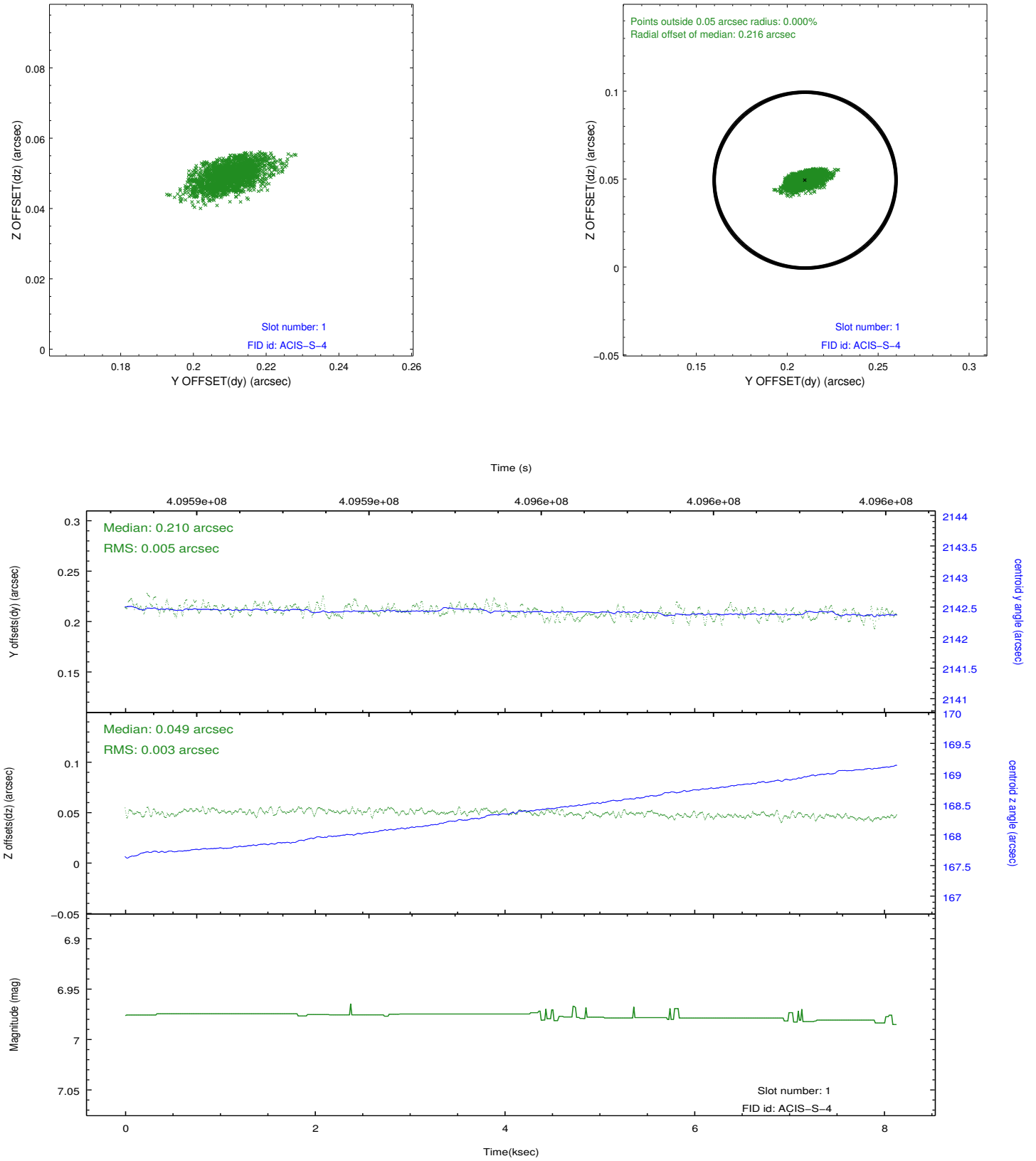


## 2.5 FID Slots

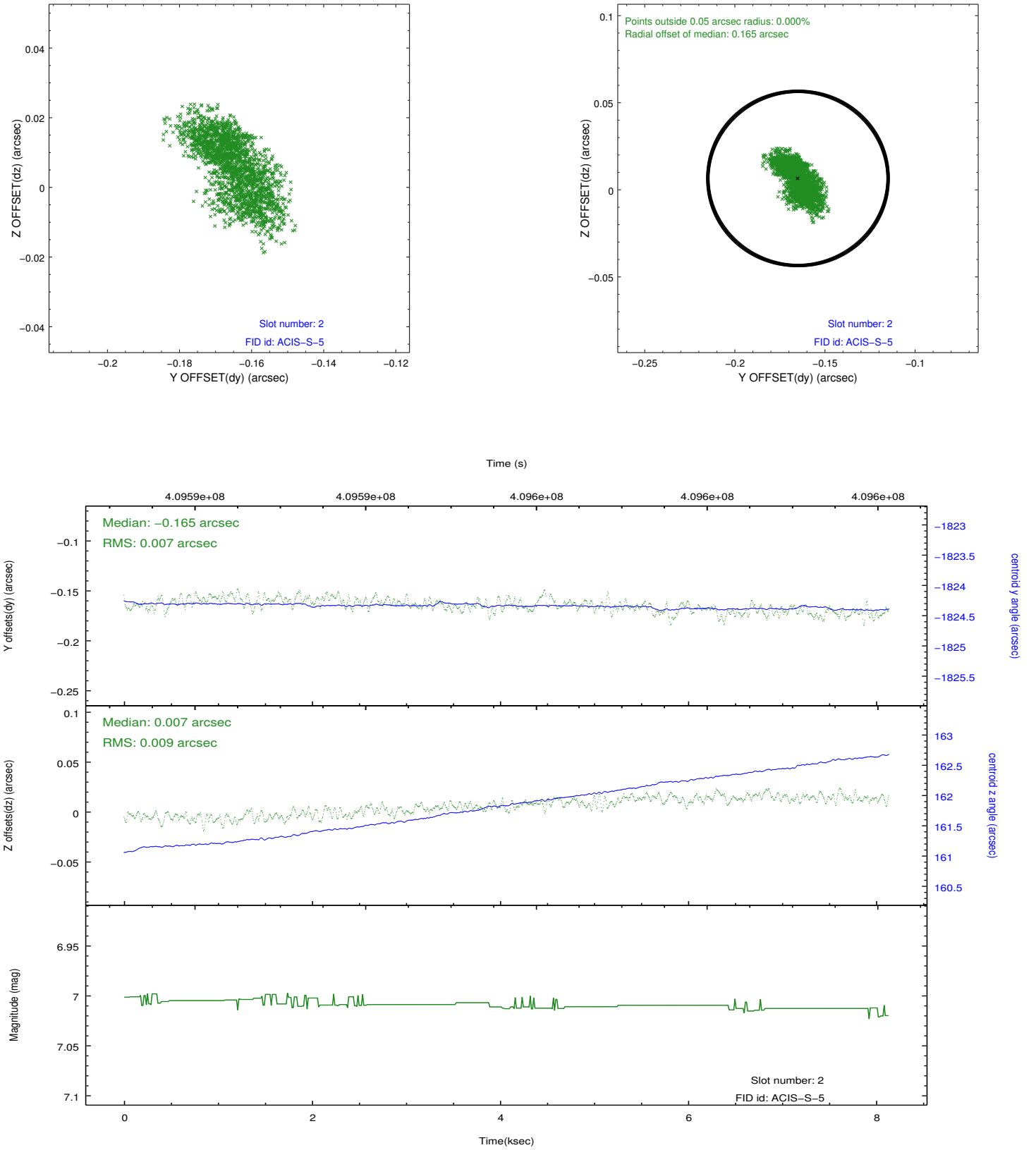
### 2.5.1 Slot 0



## 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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0563320757151

### **A.2 Comments**